



FCC LISTED, REGISTRATION  
NUMBER: 2764.01

ISED LISTED REGISTRATION  
NUMBER: 23595-1

Test report No:  
**3956ERM.002**

## Test report

**USA FCC Part 15.407 (U-NII), 15.209  
CANADA RSS-210, RSS-Gen**

**Unlicensed National Information Infrastructure Devices. General technical requirements.**

**License-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment.  
General Requirements and Information for the Certification of Radio Apparatus.**

( ) Identification of item tested	Display Audio Infotainment Unit 10"TP
( ) Trademark	Visteon
( ) Model and /or type reference tested	VW MIB Regio
Other identification of the product	VW C4 HW version: 02 SW version: 0700 FCC ID: NT8-VWMIBREGIO IC ID: 3043A-VWMIBREGIO
(*) Features	Bluetooth EDR 2,4 GHz, Version 4.2 Audio BT streaming music, control and browsing Wireless 2,4 GHz and 5 GHz bands GNSS Receiver - GLONASS, GPS AM/FM single tuner, Seek, Scan and Manual Tuning Bluetooth EDR 2,4 GHz, Version 4.2
Manufacturer	Visteon Corporation One Village Center Drive, Van Buren Township, MI 48111, USA
Test method requested, standard	USA FCC Part 15.407 10-1-20 Edition: Unlicensed National Information Infrastructure Devices. General technical requirements. 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 (April 2018). 789033 D02 General UNII Test Procedures New Rules v02r01 Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	06-05-2023
Report template No	FDT08_23 ( ) "Data provided by the client"

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## Acronyms

Acronym ID	Acronym Description
# Of Tx Chains	Number of Transmission Chains
26Ebw	Emission Bandwidth
Avg Power	Maximum Average Conducted Output Power
DC	Duty Cycle
Detector	Detector used
Freq	Frequency
Freq Rng	Frequency Range
Inband Peak Lvl	Inband Peak Level
Lvl	Level
MP	Measurement Point
Max EIRP	Maximum Burst EIRP
Mod	Modulation
Mode	Mode
Occ Ch BW	Occupied Channel Bandwidth
Operation Band	Operation Band
PSD	Power Spectrum Density
Pol	Polarization
Port	Active Port
TPC	TPC
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level

## Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

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

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

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

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

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## General conditions

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

## Uncertainty

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Uncertainty (factor  $k=2$ ) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U (k=2)	Units
RF Power and PSD	5150-5850	0.88	dB
Occupied Bandwidth		1.87	%
Band Edge		0.64	dB
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

## Data provided by the client

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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 VW MIB Regio is a Display Audio Infotainment Unit with capacitive 10" TP touch screen with following functionalities:
  - a. USB 3.0/USB Video, USB Video, USB Hub
  - b. Bluetooth EDR 2,4 GHz, Version 4.2
  - c. Audio BT streaming music, control and browsing
  - d. Wireless 2,4 GHz and 5 GHz bands
  - e. GNSS Receiver - GLONASS, GPS
  - f. AM/FM single tuner, Seek, Scan and Manual Tuning
  - g. Smartphone integration (Apple Car Play and Android Auto), Capability to run local APPs, e-Call.

DEKRA 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.

Sample S/01 is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Manufacturer / Model	Serial N°	Date of Reception	Application
S/01	3956/10	Infotainment Unit 10"	Visteon / VW MIB Regio - VW	VWZ7Z2B2200063	2023-01-04	Element Under Test
S/01	2501/24	Harness	Visteon	-	2020-02-24	Element Under Test
S/01	2501/33	Fakra to USB -Type A (Female) Cable	-	-	2020-02-24	Accessory

1. Sample S/01, was used for the following test(s): All Conducted tests indicated in appendix B.

Sample S/02 is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Manufacturer / Model	Serial N°	Date of Reception	Application
S/02	3956/07	Infotainment Unit 10"	Visteon / VW MIB Regio - VW	VWZ7Z2B2200063	2023-01-04	Element Under Test
S/02	2501/18	Harness	Visteon	-	2020-02-24	Element Under Test
S/02	2501/36	Fakra to USB -Type A (Female) Cable	-	-	2020-02-24	Accessory
S/02	3492/38	Antenna (GNSS & FM/AM tune)	ASK / 6C0.035.501.G 5FQ	02S UA7PL	2020-02-24	Accessory

2. Sample S/02, was used for the following test(s): All Radiated tests indicated in appendix B.

## Test sample description

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded	Coupled to patient	
	AM/FM Antenna connector (FAKRA)		1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	GPS Antenna Connector (FAKRA)		0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	USB Video port		0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	USB 3.0		0.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Main connector			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Supplementary information to the ports..... :	No Data Provided						
Rated power supply ..... :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	DC: 13.5 V (vehicle battery)					
<input type="checkbox"/>	DC:						
Rated Power..... :	Current in sleep mode: less than 300 $\mu$ A Current in normal mode: 3 A Maximum current in normal mode						
Clock frequencies..... :	LVDS/TFT: 76,8 MHz LPDDR4: 1,333 GHz eMMC: 197 MHz						
Other parameters..... :	No Data Provided						
Software version..... :	SW 0700						
Hardware version..... :	HW 02						
Dimensions (W x H x D)..... :	VW MIB Regio India Dimensions: 269,80 mm x 153,9 mm x 130,72 mm Weight: 1,680 kg						
Mounting position..... :	<input type="checkbox"/>	<i>Tabletop equipment</i>					
	<input type="checkbox"/>	<i>Wall/Ceiling mounted equipment</i>					
	<input type="checkbox"/>	<i>Floor standing equipment</i>					
	<input type="checkbox"/>	<i>Hand-held equipment</i>					
	<input checked="" type="checkbox"/>	<i>Other: Built into vehicle</i>					
Modules/parts..... :	Module/parts of test item		Type		Manufacturer		
	No Data Provided						
Accessories (not part of the test item)..... :	Description		Type		Manufacturer		
	AM/FM/GPS Antenna						
	SMA connector						
	USB cable						
	Harnesses						
	Description		File name		Issue date		

Documents as provided by the applicant .....	Declaration Equipment Data	FDT30_18 Declaration Equipment Data_rev1	04/10/2023
----------------------------------------------	----------------------------	------------------------------------------	------------

**Copy of marking plate:**



## Identification of the client

Visteon Corporation  
One Village Center Drive, Van Buren Township,  
MI 48111, USA

## Testing period and place

<b>Test Location</b>	DEKRA Certification Inc.
<b>Date (start)</b>	04-25-2023
<b>Date (finish)</b>	05-15-2023

## Document history

Report number	Date	Description
3956ERM.002	06-05-2023	First release

## Environmental conditions

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %

## Remarks and comments

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The tests have been performed by the technical personnel: Juliana Cherry, Lakshmi Gollamudi, Qi Zhang and Koji Nishimoto.



## List of equipment used during the test

### Conducted Measurements

CONTROL NUMBER	DESCRIPTION	Serial No	LAST CALIBRATION	NEXT CALIBRATION
897	Power supply (AMETEK / PROG-DC-PS)	1707A01906	N/A	N/A
1039	FSV40 Signal Analyzer 40GHz	101627	2022-11-01	2024-11-01
1042	SMBV 100A Vector Signal Generator	262575	2022-03-16	2024-03-16
1107	Ethernet SNMP Thermometer- RF1 Room	60038026952	2022-10-18	2024-10-18
1313	Wireless Measurement Software R&S EMC32	-	N/A	N/A

### Radiated Measurements

CONTROL NUMBER	DESCRIPTION	Serial No	LAST CALIBRATION	NEXT CALIBRATION
878	Power supply (AMETEK / PROG-DC-PS)	1707A01783	N/A	N/A
1012	ESR26 EMI Test Receiver	101478	2022-04-12	2024-04-12
1014	FSV40 Signal Analyzer 40GHz	101626	2022-08-01	2024-08-01
1055	3116C Double-Ridged Waveguide Horn Antenna	211394	2023-02-06	2026-02-06
1057	3115 Double-Ridged Waveguide Horn Antenna	211373	2020-06-03	2023-06-03
1065	3142E Biconilog antenna	208587	2020-08-13	2023-08-13
1108	Ethernet SNMP Thermometer-SAC	60038026954	2022-10-18	2024-10-18
1111	Ethernet SNMP Thermometer	60038026577	2022-10-18	2024-10-18
1179	Semi-Anechoic Chamber	F169021	N/A	N/A
1314	Wireless Measurement Software R&S Emc32	1040-OT102236	N/A	N/A

## Testing verdicts

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

## Summary

FCC PART 15.407 PARAGRAPH / RSS-247			
Requirement	Test case	Verdict	Remark
FCC 15.407 (a) / RSS-247 6.2	Power Limits. Maximum Output Power	P	N/A
FCC 15.407 (a) / RSS-247 6.2	Maximum Power Spectral Density	N/M	Refer 1
FCC 15.403 / RSS-247 6.2	99% Occupied Bandwidth	N/M	Refer 1
FCC 15.403 / RSS-247 6.2	26 dB Emission Bandwidth	N/M	Refer 1
FCC 15.407 (b)(1) / RSS-247 6.2	Band-edge Conducted Emissions	N/M	Refer 1
FCC 15.407 (b)(6)15.207 / RSS Gen 8.8	Emission limitations Conducted	N/A	Refer 2
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10	Undesirable radiated emissions	P	N/A
FCC 15.407 (g) / RSS-Gen 6.11&8.11	Frequency Stability	N/M	Refer 3
<u>Supplementary information and remarks:</u>			
The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017			
<ol style="list-style-type: none"> <li>1. Test not evaluated for this partial testing report (variant of 2501BERM.008)</li> <li>2. If radiated emissions were performed with antenna, no conducted testing is required.</li> <li>3. The compliance is checked through a description of how this requirement is met that is provided by the applicant.</li> </ol>			

## Appendix A: DUT Description

## PRODUCT INFORMATION

Information	Description
Equipment type	Wi-Fi 5GHz
DFS Operating Mode	Slave without Radar detection
TPC Function	No
Antenna Specification	Internal
Operating Frequency Band	5150 - 5850 MHz
Nominal Channel Bandwidth	20 / 40 MHz
Antenna type	Internal antenna
RF Output Power	a mode:18 dBm n20 mode: 13 dBm n40 mode: 12dBm
Antenna gain	0 dBi
Supply Voltage	13.5 Vdc
Modulation:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Transmit Data Rate:	802 .11 a/n Rates: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, & 54 Mbps IEEE 802.11n: HT20 (OFDM MCS0-MCS7) HT40 (OFDM MCS0-MCS7)

## Appendix B: TEST RESULTS Wi-Fi 5GHz

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## TEST CONDITIONS

(\*): Data provided by the client.

TEST CONDITIONS	DESCRIPTION
TC#01 <sup>(1)</sup> <b>(a mode)</b>	<p><u>Power supply (V):</u>  <math>V_{\text{nominal}} = 13.5 \text{ Vdc}</math></p> <p><u>Channel Bandwidth:</u> 20 MHz</p> <p><u>Test Frequencies for Conducted/Radiated tests:</u></p> <p><u>UNII-1:</u>            Lowest channel: 5180 MHz            Middle channel: 5200 MHz            Highest channel: 5240 MHz</p> <p><u>UNII-2A:</u>            Lowest channel: 5260 MHz            Middle channel: 5280 MHz            Highest channel: 5320 MHz</p> <p><u>UNII-2C:</u>            Lowest channel: 5500 MHz            Middle channel: 5580 MHz            Highest channel: 5700 MHz</p> <p><u>UNII-3:</u>            Lowest channel: 5745 MHz            Middle channel: 5785 MHz            Highest channel: 5825 MHz</p>

TEST CONDITIONS	DESCRIPTION
<p>TC#02<sup>(1)</sup> <b>(n mode)</b></p>	<p><u>Power supply (V):</u>  <math>V_{\text{nominal}} = 13.5 \text{ Vdc}</math></p> <p><u>Channel Bandwidth: 20 MHz</u></p> <p><u>Test Frequencies for Conducted/Radiated tests:</u>  <u>UNII-1:</u>            Lowest channel: 5180 MHz            Middle channel: 5200 MHz            Highest channel: 5240 MHz  <u>UNII-2A:</u>            Lowest channel: 5260 MHz            Middle channel: 5280 MHz            Highest channel: 5320 MHz  <u>UNII-2C:</u>            Lowest channel: 5500 MHz            Middle channel: 5580 MHz            Highest channel: 5700 MHz  <u>UNII-3:</u>            Lowest channel: 5745 MHz            Middle channel: 5785 MHz            Highest channel: 5825 MHz</p> <p><u>Channel Bandwidth: 40 MHz</u></p> <p><u>Test Frequencies for Conducted/Radiated tests:</u>  <u>UNII-1:</u>            Lowest channel: 5190 MHz            Highest channel: 5230 MHz  <u>UNII-2A:</u>            Lowest channel: 5270 MHz            Highest channel: 5310 MHz  <u>UNII-2C:</u>            Lowest channel: 5510 MHz            Middle channel: 5550 MHz            Highest channel: 5670 MHz  <u>UNII-3:</u>            Lowest channel: 5755 MHz            Highest channel: 5795 MHz</p>

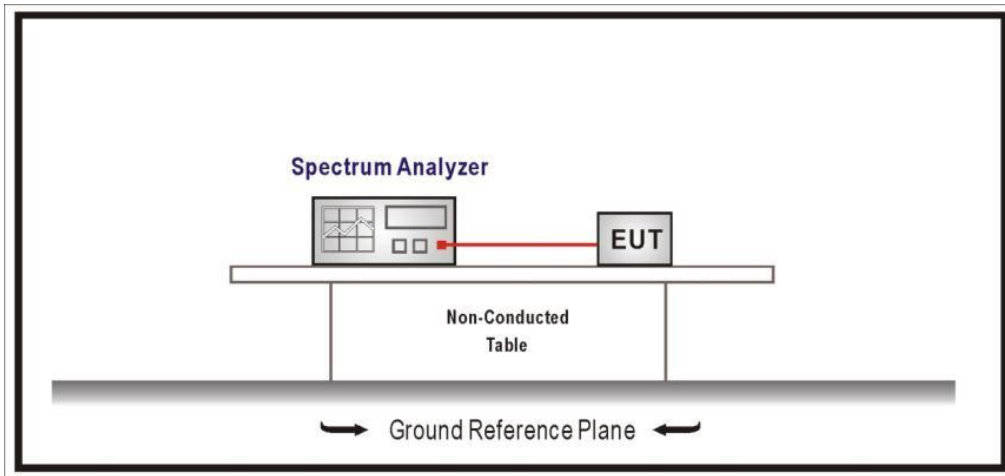
Note (1): The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulation types.
- For spurious emissions for OFDM modes 802.11a and 802.11n20/40 a preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in 802.11a and 802.11n40 modes.
- The data rates of 6Mb/s for 802.11a, MCS 0 for 802.11n40, were selected based on preliminary testing that identified those rates corresponding to the worst cases.
- For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied instructions to configure the EUT. The customer supplied a document containing the setup instructions.



CONDUCTED MEASUREMENTS:



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bi-log antenna) and 1-18 GHz Double ridge horn antennas, and 1m for the frequency range 18 GHz - 40 GHz Double ridge horn antenna.

For radiated emissions in the range 18 - 40 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 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 field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

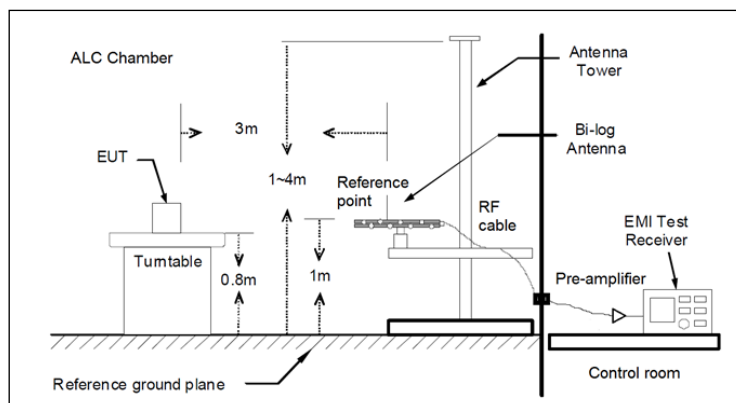


Fig A1: Radiated measurements Setup f < 1 GHz

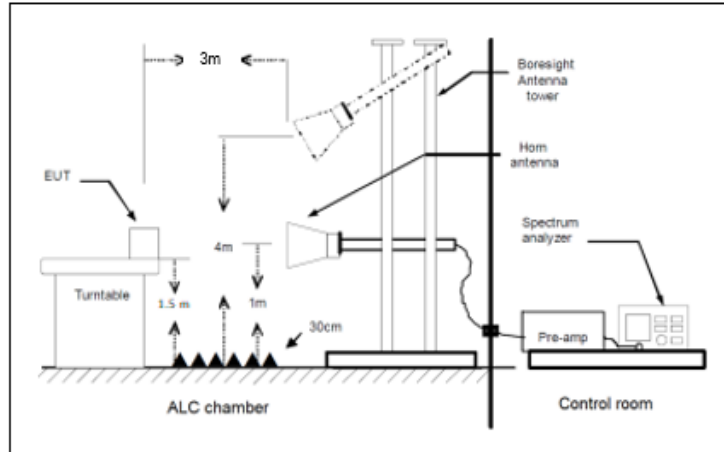


Fig A2: Radiated measurements setup  $f > 1-18$  GHz

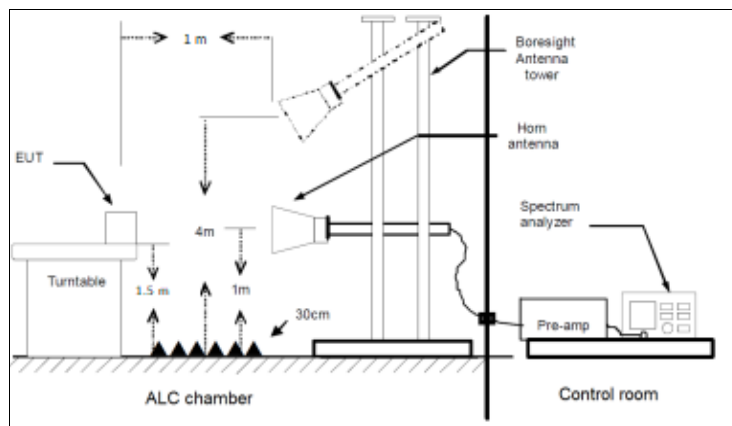


Fig A3: Radiated measurements setup  $f > 18$  GHz

## TEST CASES DETAILS

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### FCC 15.407 (a) / RSS-247 6.2 Power Limits. Maximum Output Power

#### Limits

##### FCC 15.407:

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. 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.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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 30 mW or  $1.76 + 10 \log_{10} B$ , dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For devices other than devices installed in vehicles:

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz

For the 5.25-5.35 GHz, 5.470-5.6 GHz, and 5.650-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (24 dBm) or  $11 + 10 \log_{10} B$ , dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever is less

For the band 5.725-5.850 GHz, the maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Maximum declared antenna gain: 0 dBi

Antenna gain: 0 dBi

Mode: SISO

Modulation: 802.11a (OFDM 6 Mbit/s)

**Results**

Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
5180.00000	No	12.2	12.2
5200.00000	No	12.2	12.2
5240.00000	No	13.0	13.0
5260.00000	No	12.6	12.6
5280.00000	No	12.6	12.6
5320.00000	No	13.6	13.6
5500.00000	No	15.1	15.1
5580.00000	No	13.7	13.7
5700.00000	No	13.5	13.5
5745.00000	No	12.2	12.2
5785.00000	No	12.6	12.6
5825.00000	No	11.6	11.6

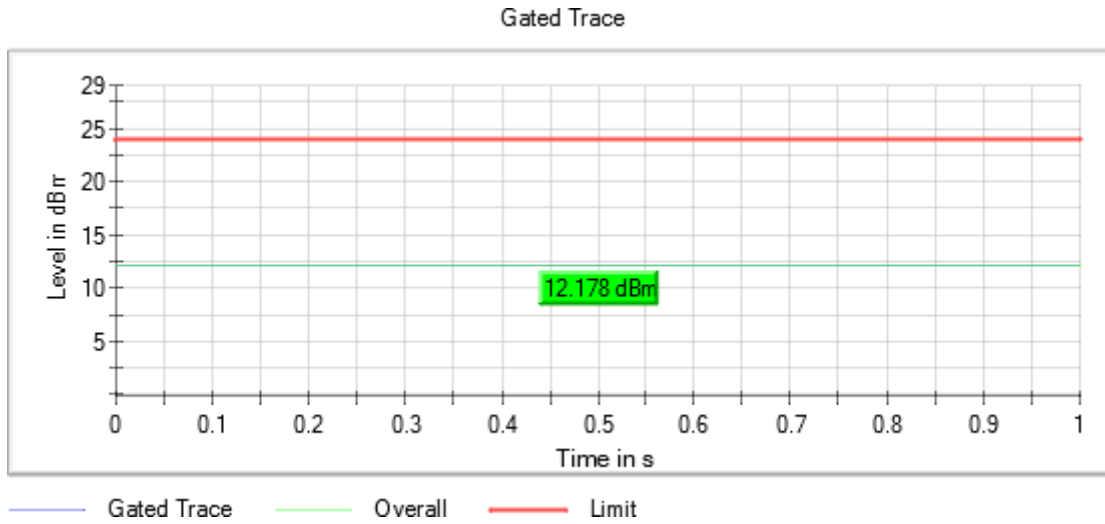
**Verdict**

Pass

**Attachments**

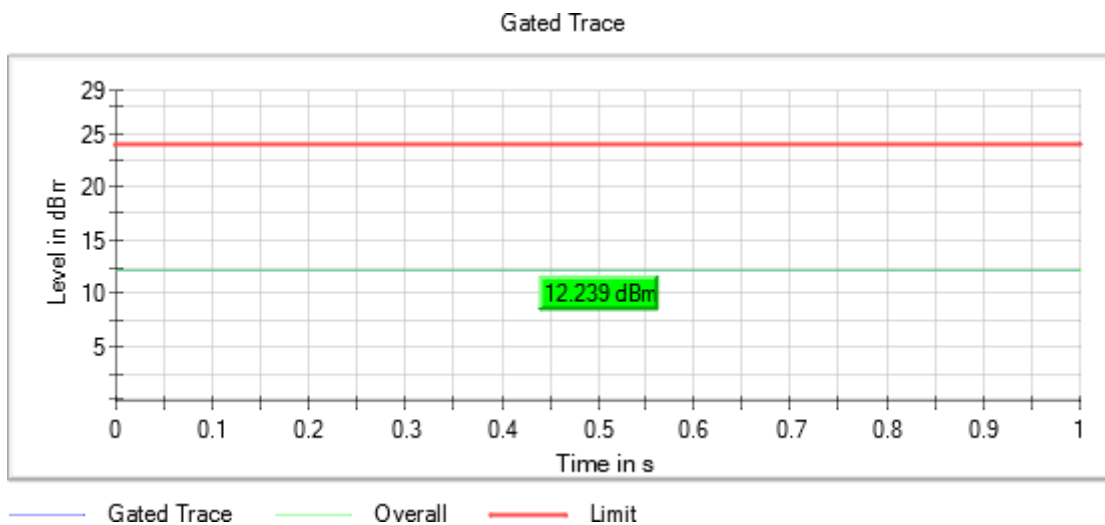
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Frequency MHz = 5180.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



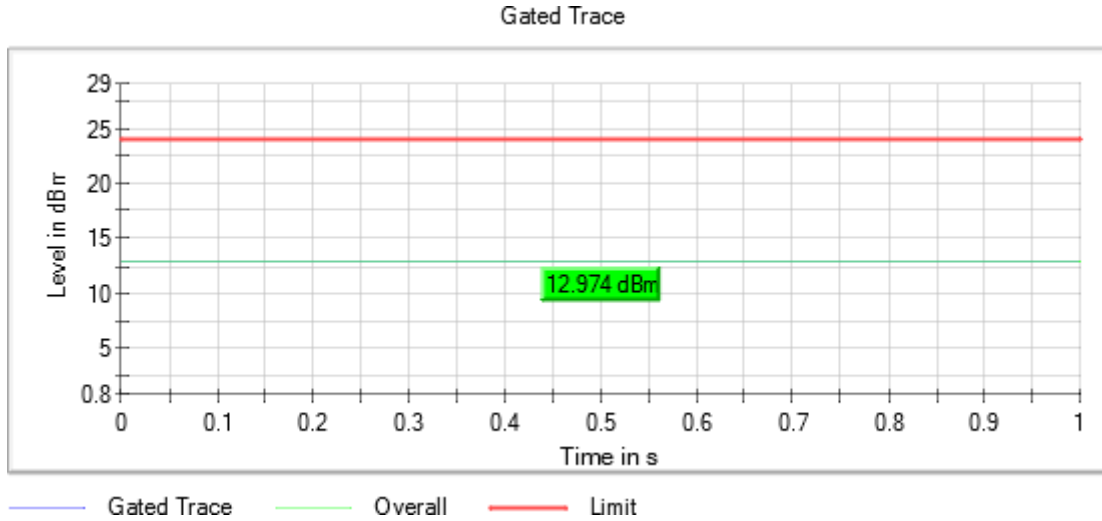
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Frequency MHz = 5200.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



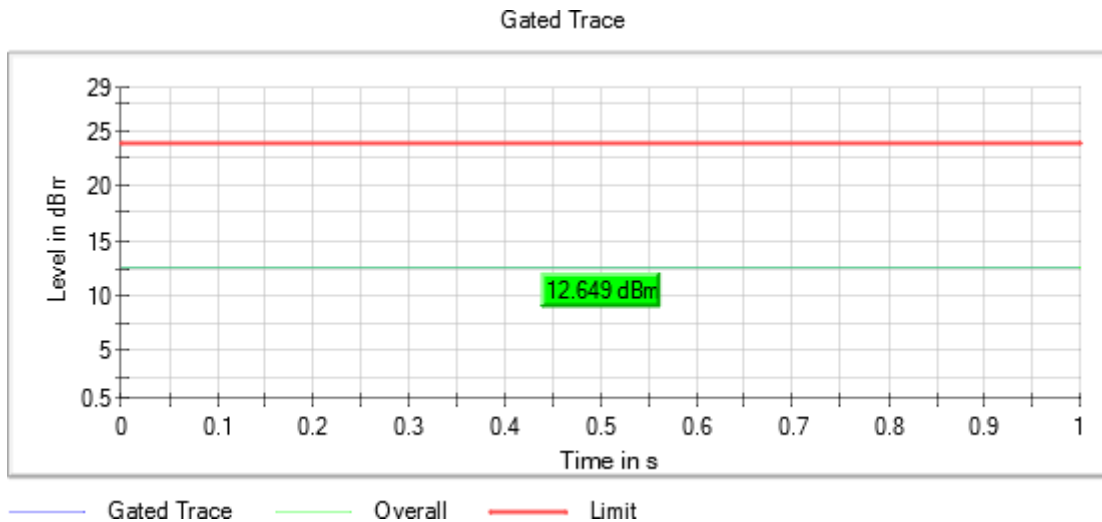
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Frequency MHz = 5240.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



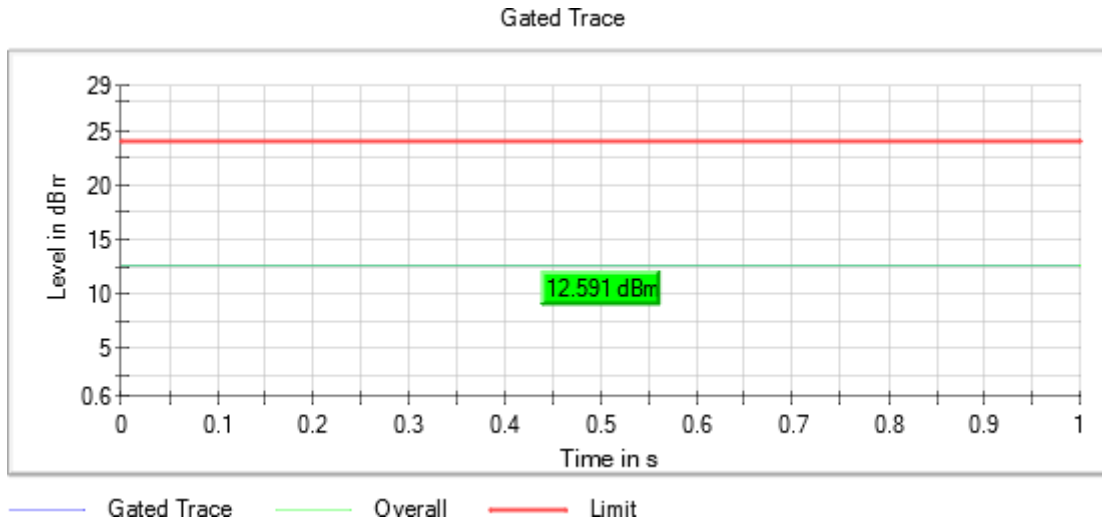
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5260.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



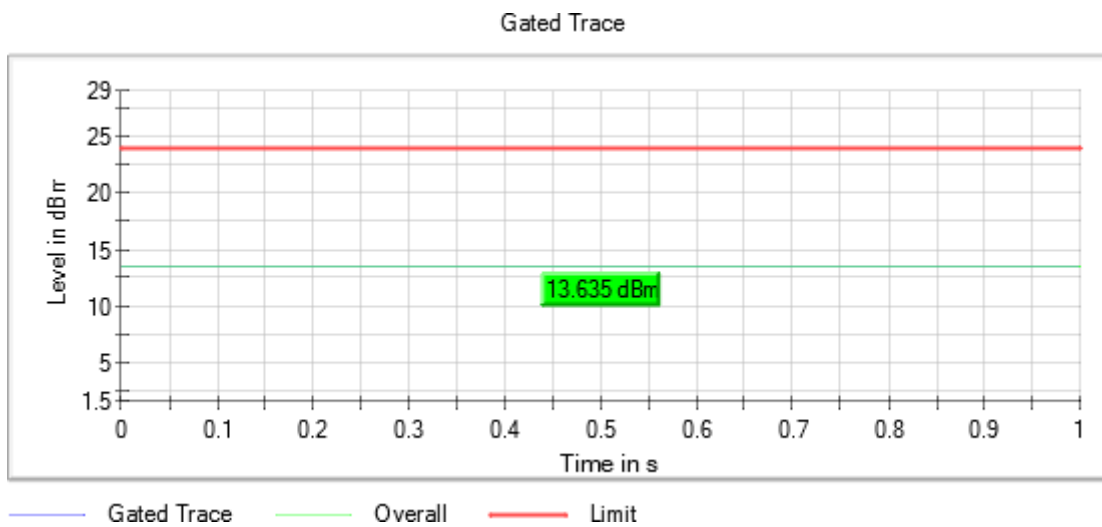
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5280.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



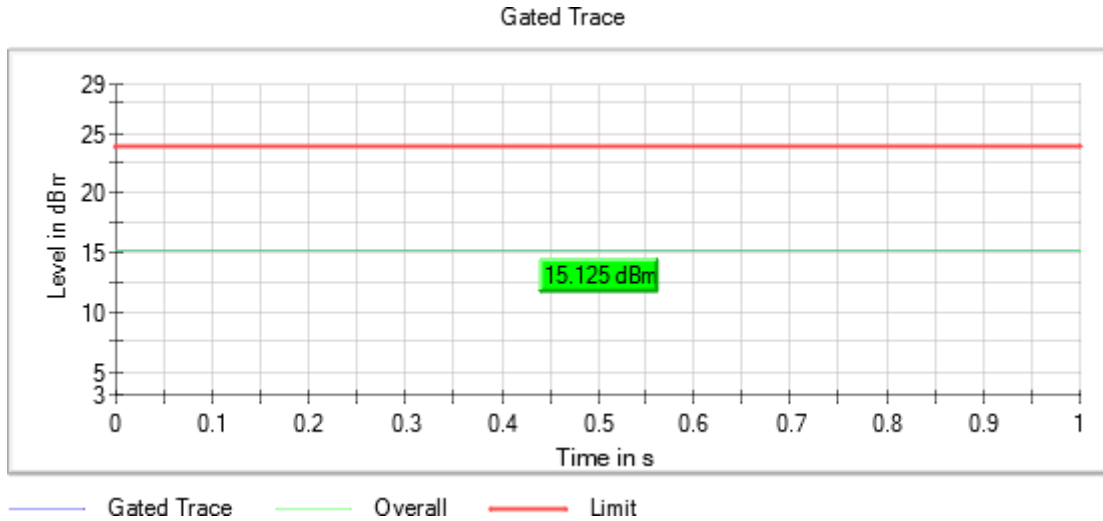
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5320.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



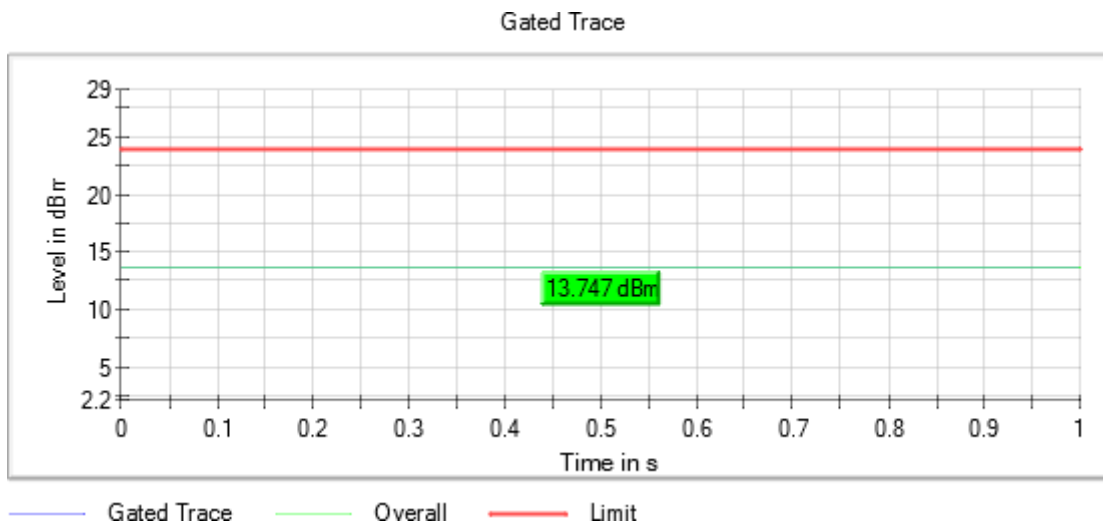
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5500.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5580.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

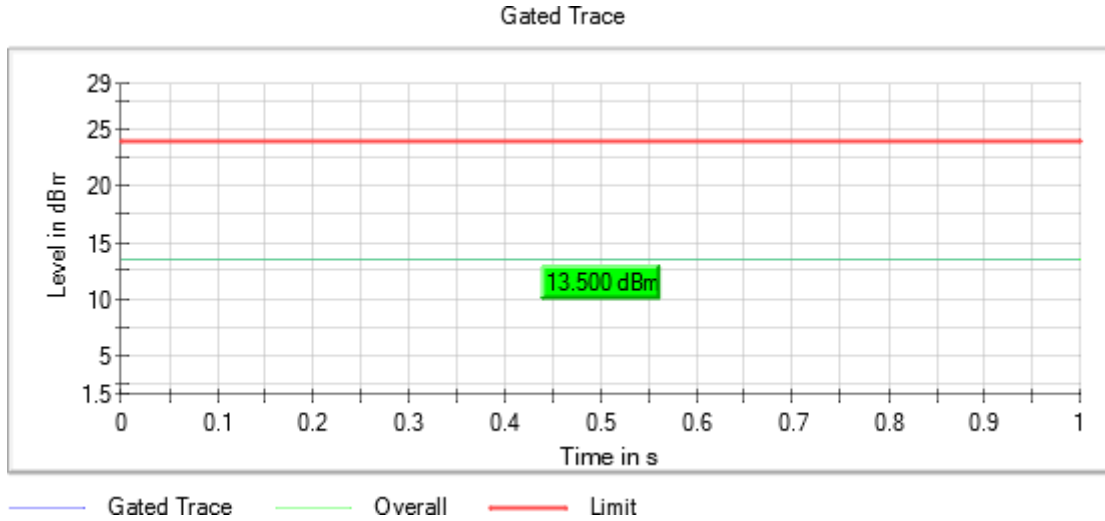
**Images:**





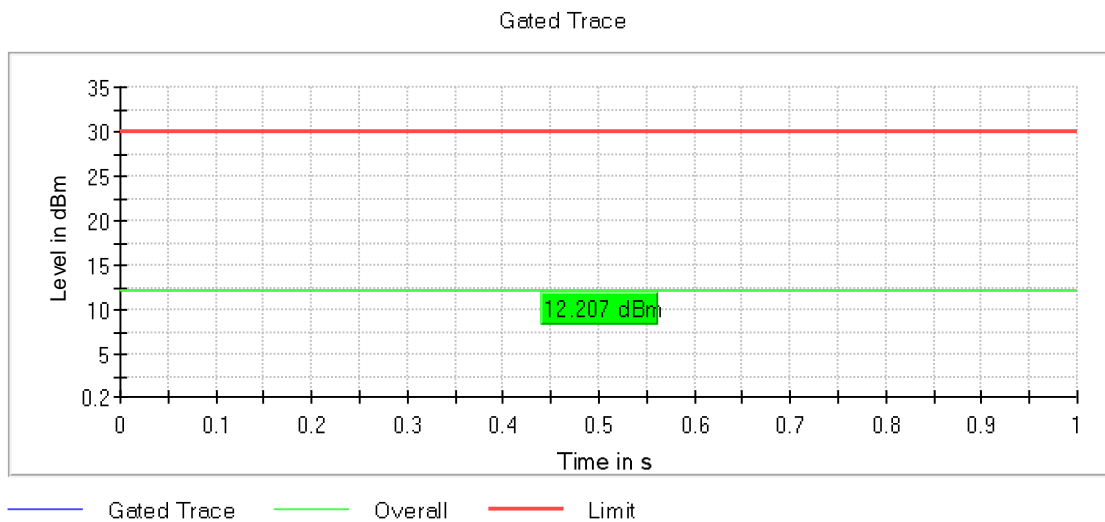
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5700.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



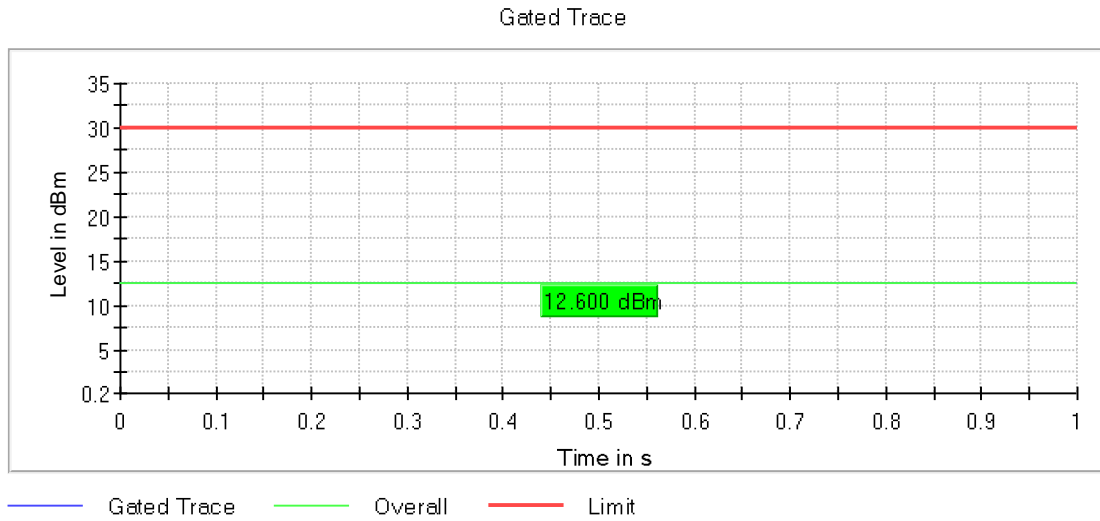
Operation Band MHz = [5150, 5250]    Active Port = 1  
Frequency MHz = 5745.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



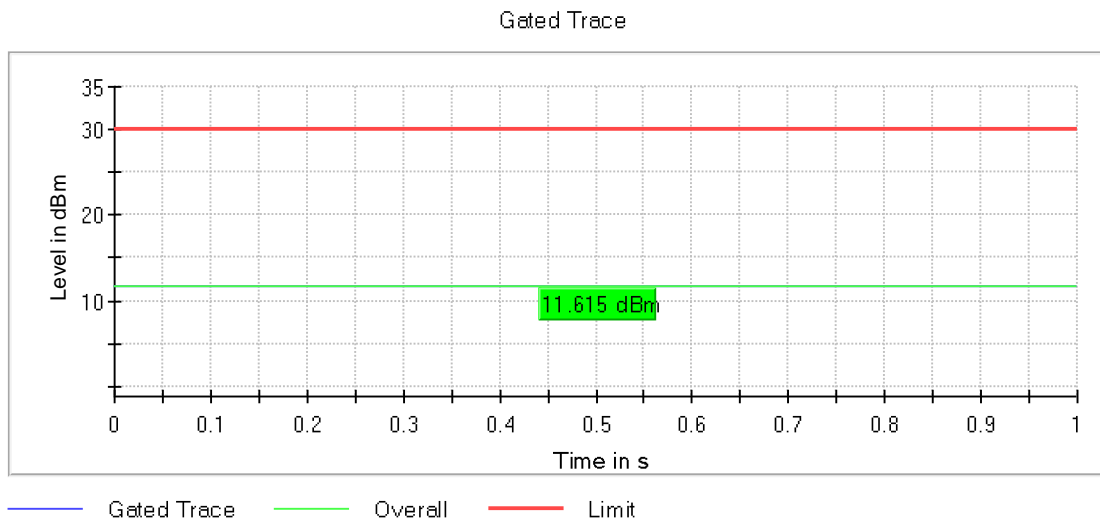
Operation Band MHz = [5150, 5250]    Active Port = 1  
 Frequency MHz = 5785.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
 TPC = No    Mode = SISO  
 Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5250]    Active Port = 1  
 Frequency MHz = 5825.00000    Modulation = 802.11a (OFDM 6 Mbit/s)  
 TPC = No    Mode = SISO  
 Number of Transmission Chains = 1

**Images:**



**Tables:**

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Antenna gain: 0 dBi

Mode: SISO

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

**Results**

Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
5180.00000	No	5.6	5.6
5200.00000	No	6.9	6.9
5240.00000	No	6.4	6.4
5260.00000	No	7.9	7.9
5280.00000	No	7.2	7.2
5320.00000	No	7.4	7.4
5500.00000	No	8.8	8.8
5580.00000	No	10.2	10.2
5700.00000	No	8.9	8.9
5745.00000	No	5.6	5.6
5785.00000	No	6.7	6.7
5825.00000	No	5.7	5.7

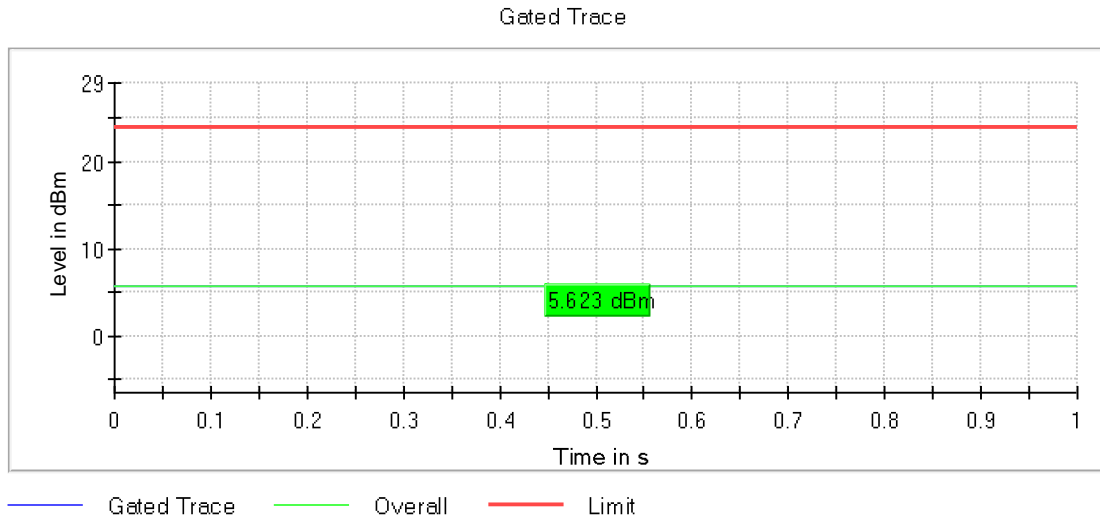
**Verdict**

Pass

**Attachments**

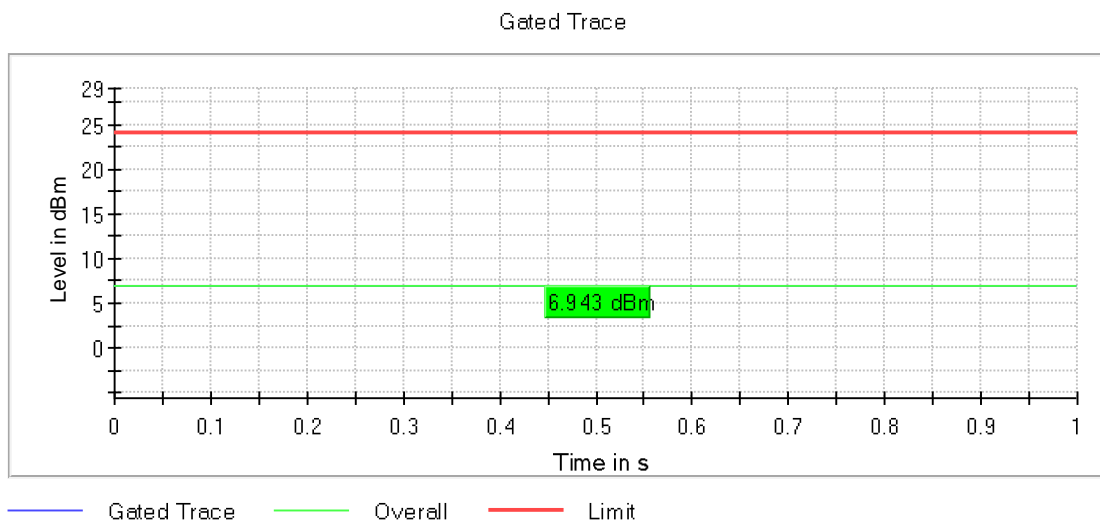
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5180.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



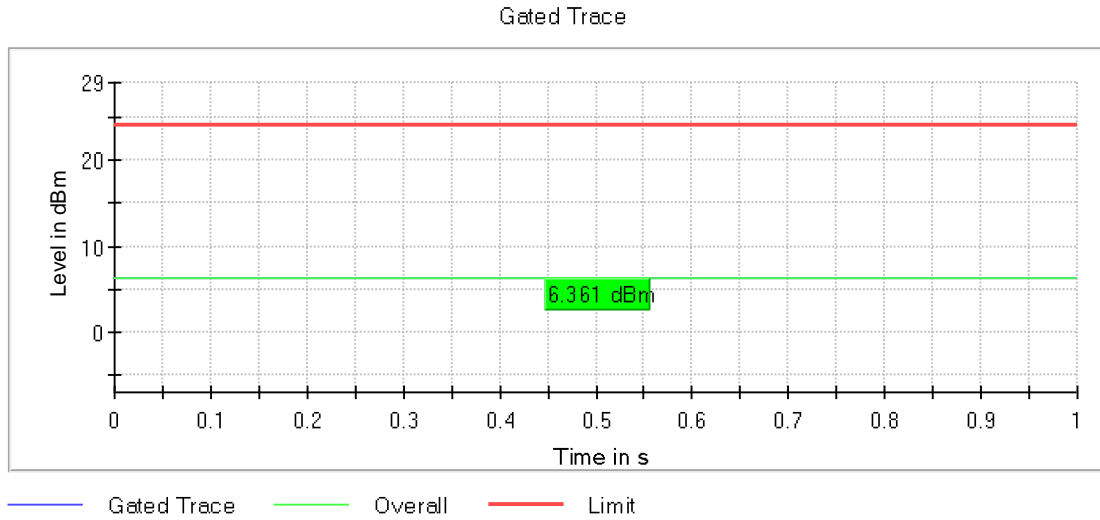
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5200.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



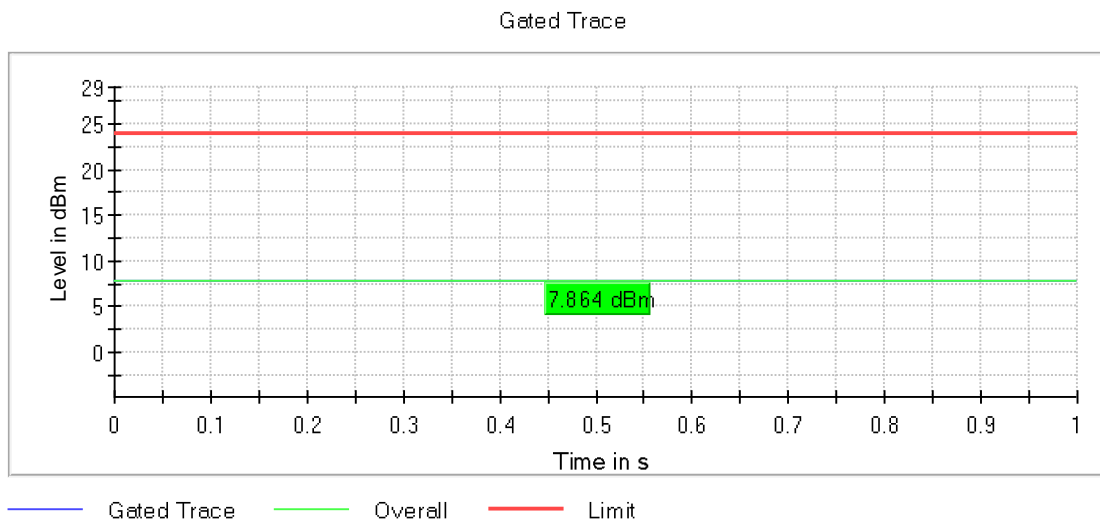
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5240.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



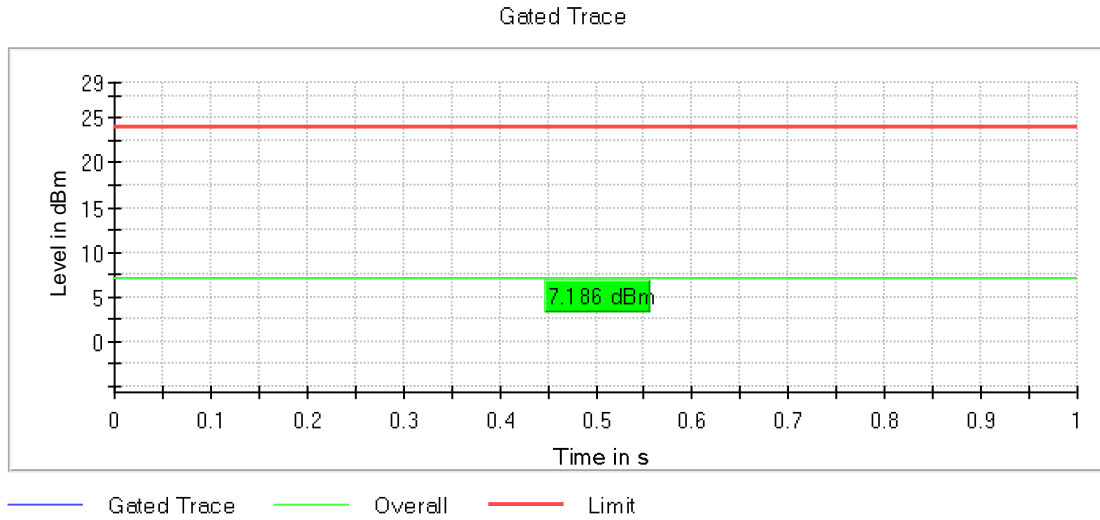
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5260.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



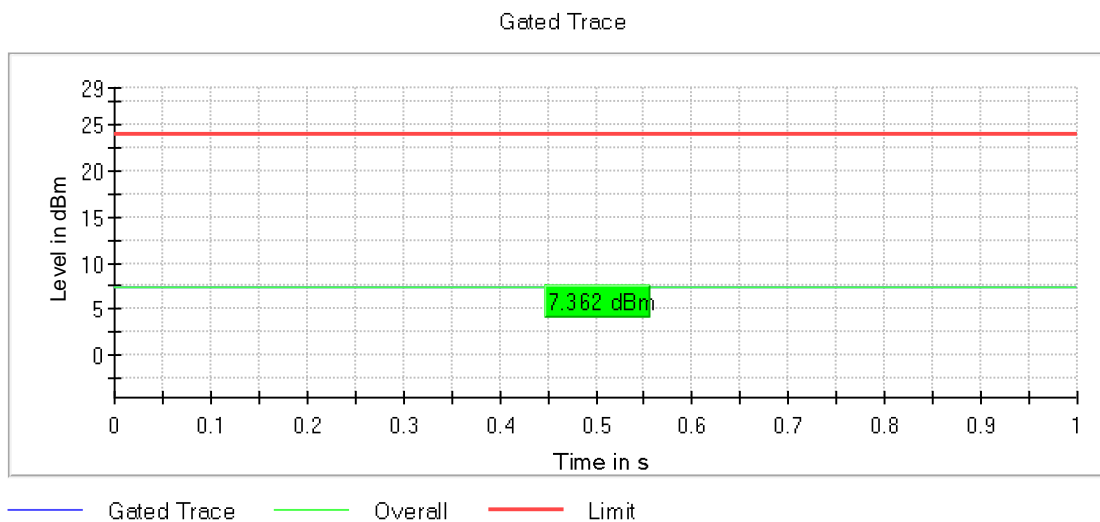
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5280.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



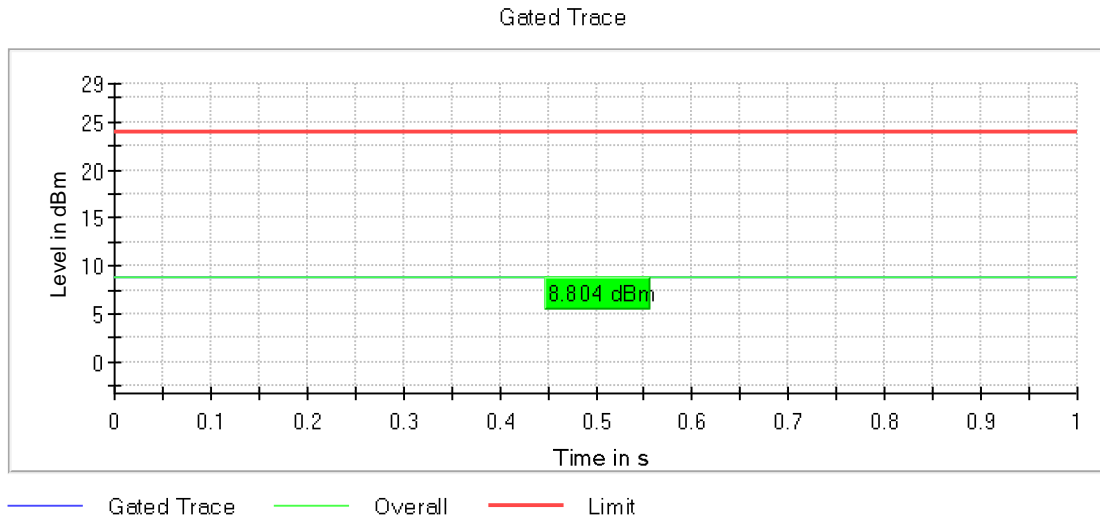
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5320.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5500.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5580.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



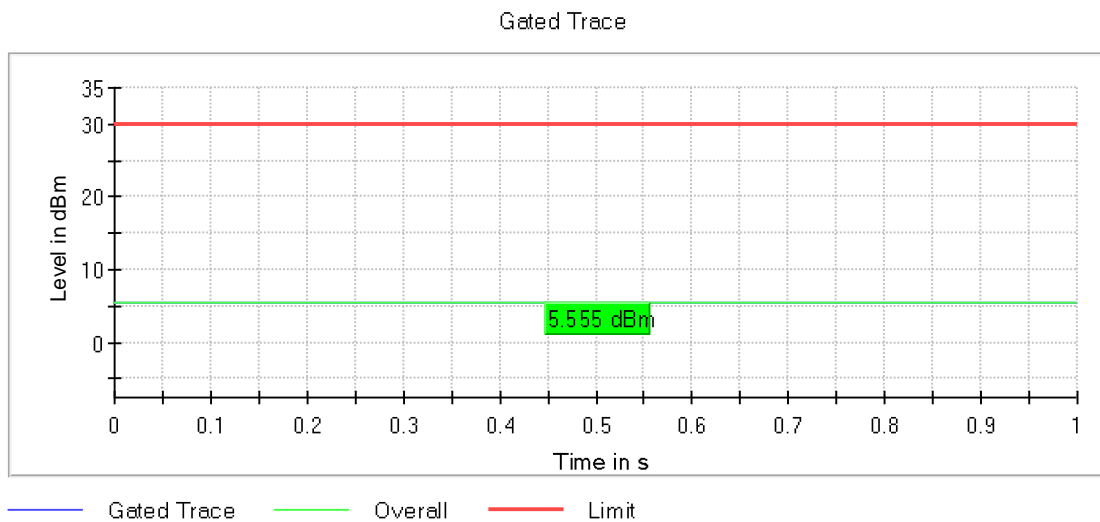
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5700.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5745.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

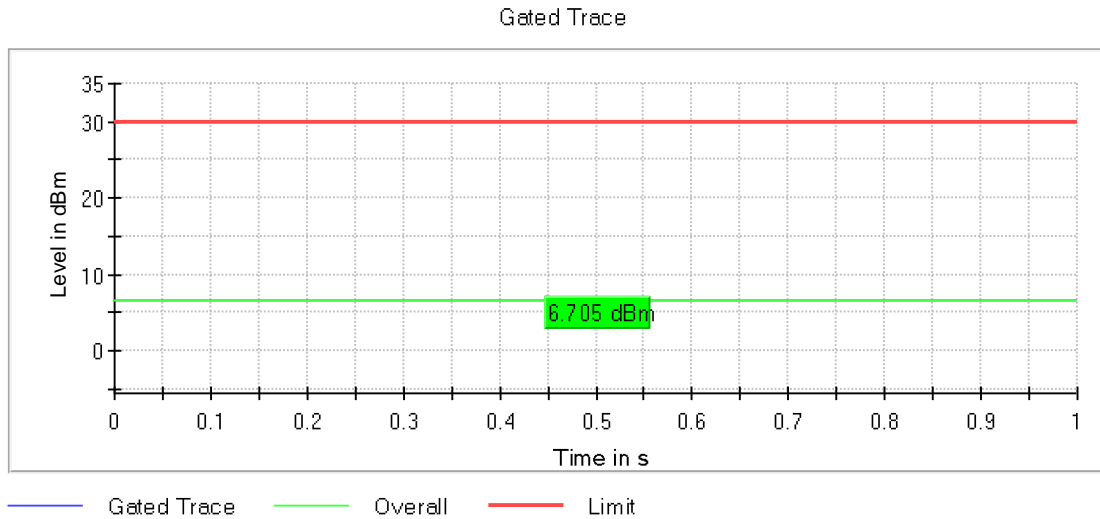
**Images:**





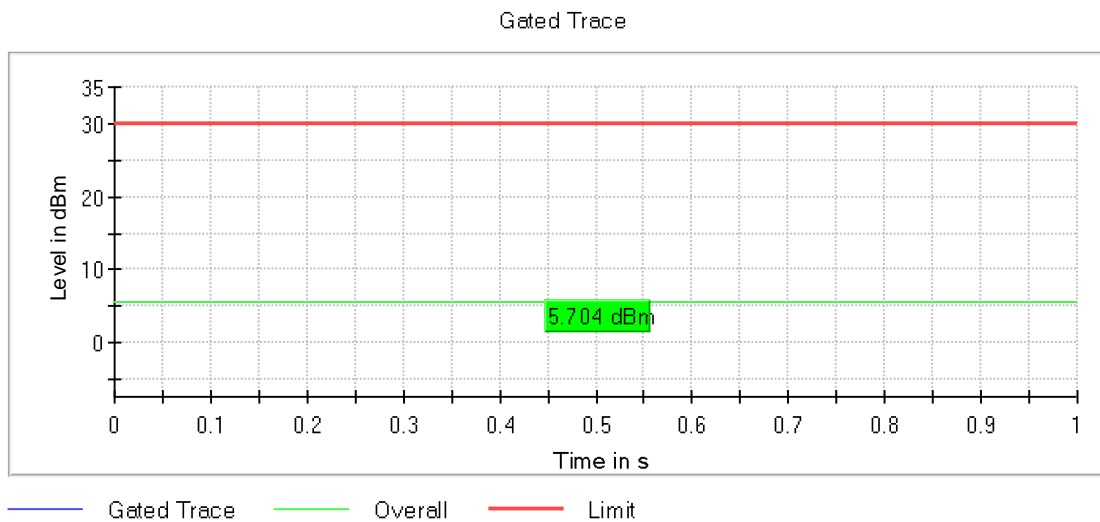
Operation Band MHz = [5150, 5850]    Active Port = 1  
 Frequency MHz = 5785.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
 TPC = No    Mode = SISO  
 Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
 Frequency MHz = 5825.00000    Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)  
 TPC = No    Mode = SISO  
 Number of Transmission Chains = 1

**Images:**



**Tables:**

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

Antenna gain: 0 dBi

Mode: SISO

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

**Results**

Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
5190.00000	No	5.0	5.0
5230.00000	No	6.0	6.0
5270.00000	No	7.3	7.3
5310.00000	No	7.2	7.2
5510.00000	No	8.5	8.5
5550.00000	No	9.3	9.3
5670.00000	No	9.7	9.7
5755.00000	No	5.5	5.5
5795.00000	No	6.4	6.4

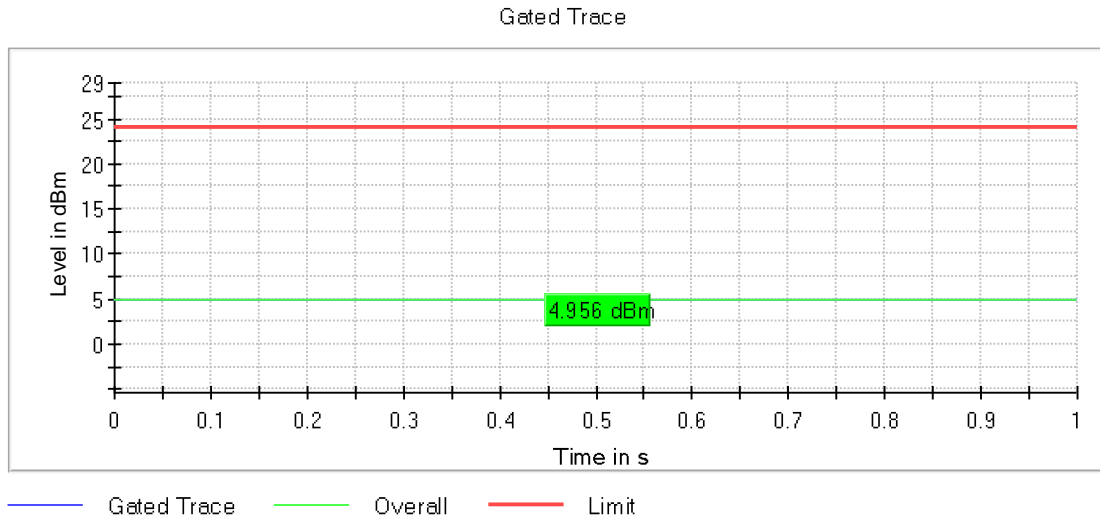
**Verdict**

Pass

**Attachments**

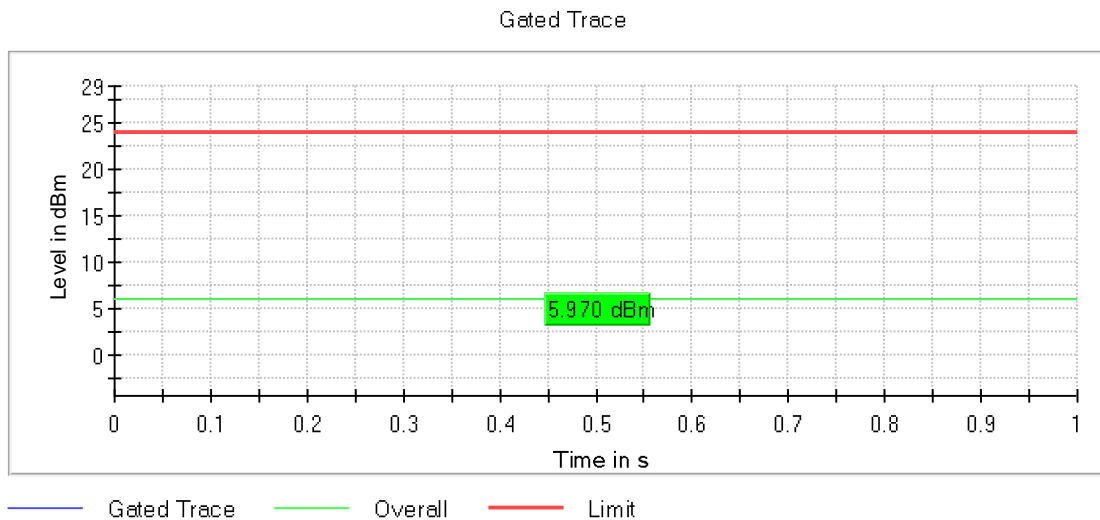
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5190.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



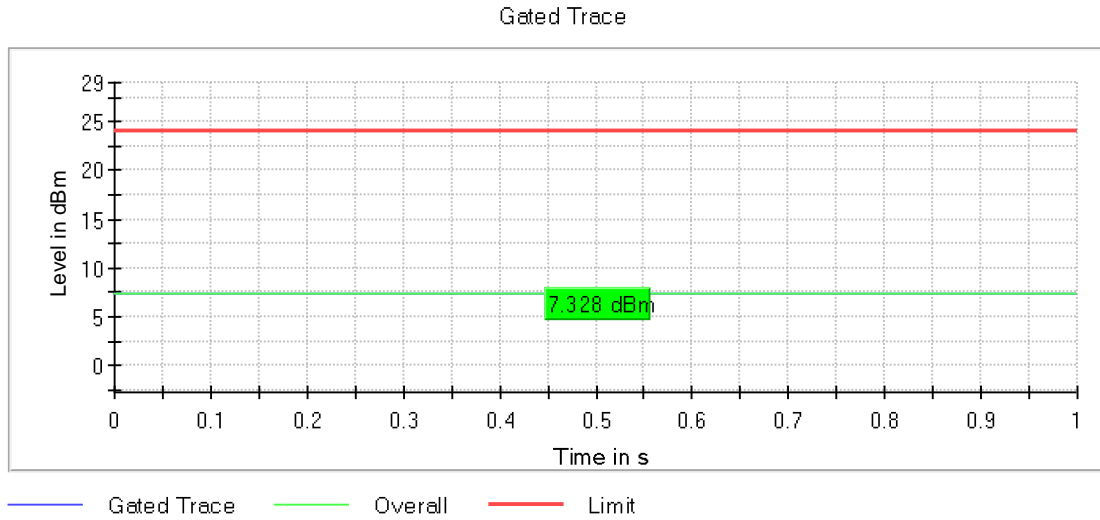
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5230.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



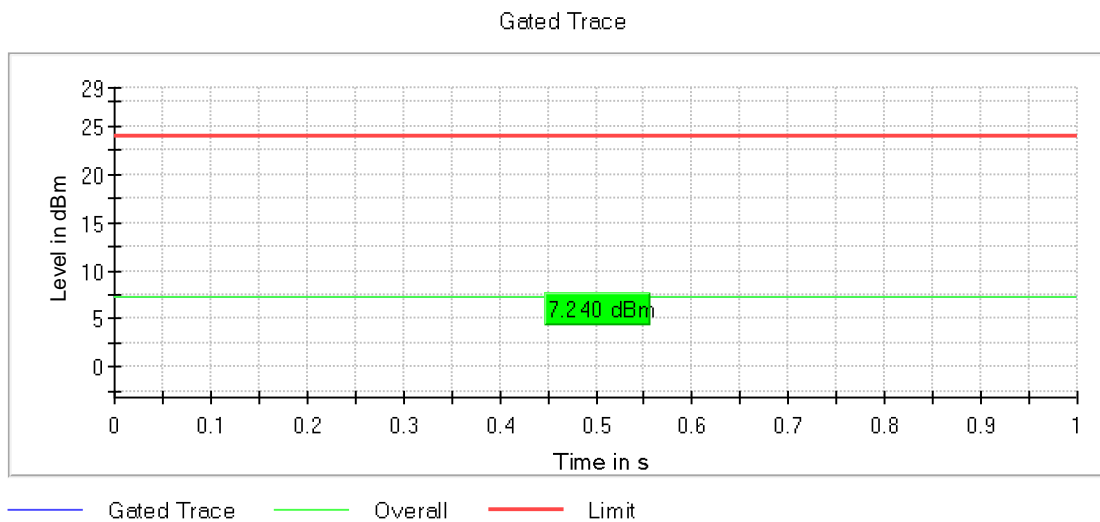
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5270.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



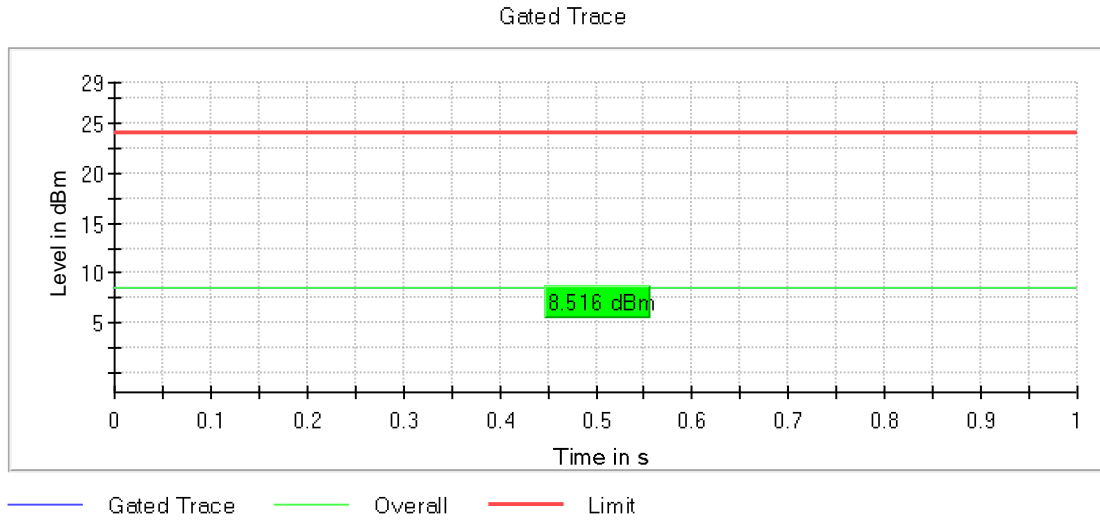
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5310.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



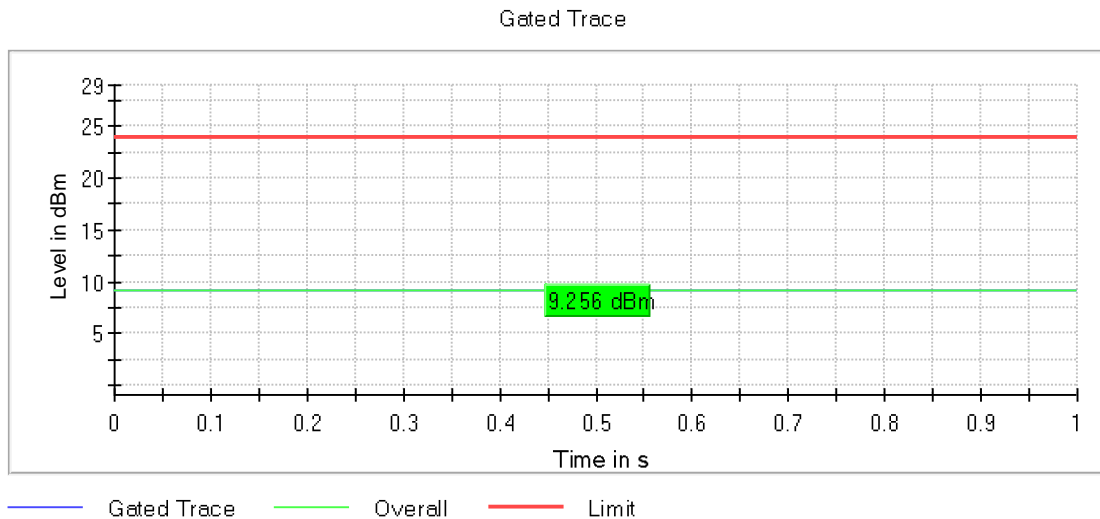
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5510.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5550.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



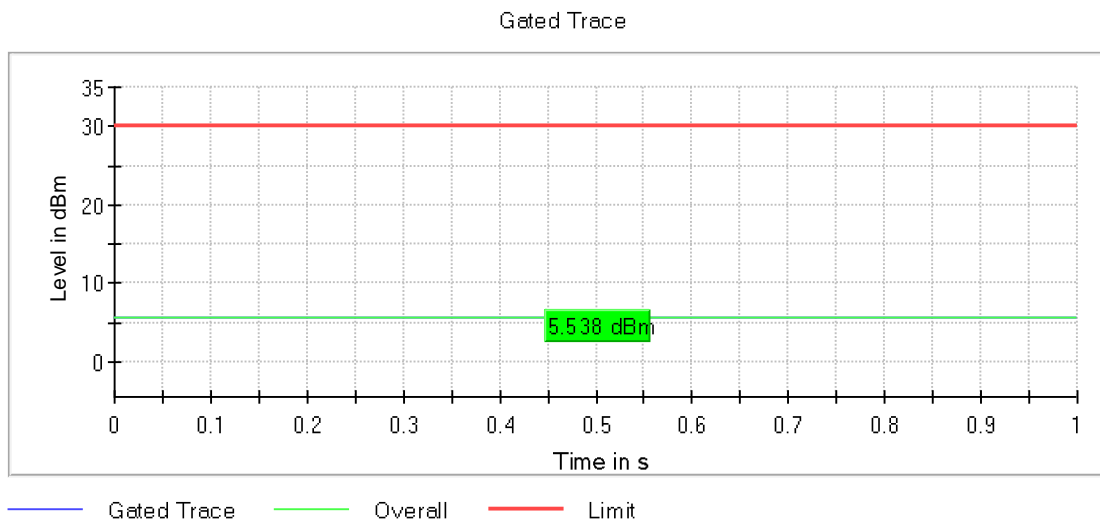
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5670.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



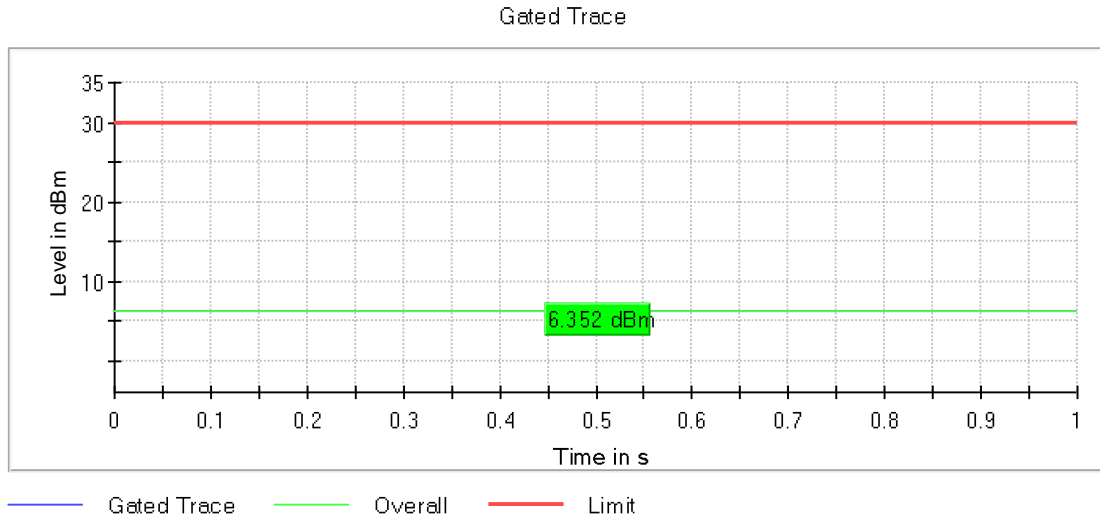
Operation Band MHz = [5150, 5850]    Active Port = 1  
Frequency MHz = 5755.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
TPC = No    Mode = SISO  
Number of Transmission Chains = 1

**Images:**



Operation Band MHz = [5150, 5850]    Active Port = 1  
 Frequency MHz = 5795.00000    Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)  
 TPC = No    Mode = SISO  
 Number of Transmission Chains = 1

**Images:**



**Tables:**

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10 Undesirable radiated emissions

**Limits**

For transmitters operating in the 5.15 – 5.25 GHz band:

All emissions outside of the 5.15 – 5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.23 dBμ V/m at 3m distance).

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725–5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

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.

**Verdict**

Pass



**Frequency range 0.03 - 1 GHz**

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

**Modulation:** 802.11a (OFDM 6 Mbit/s)

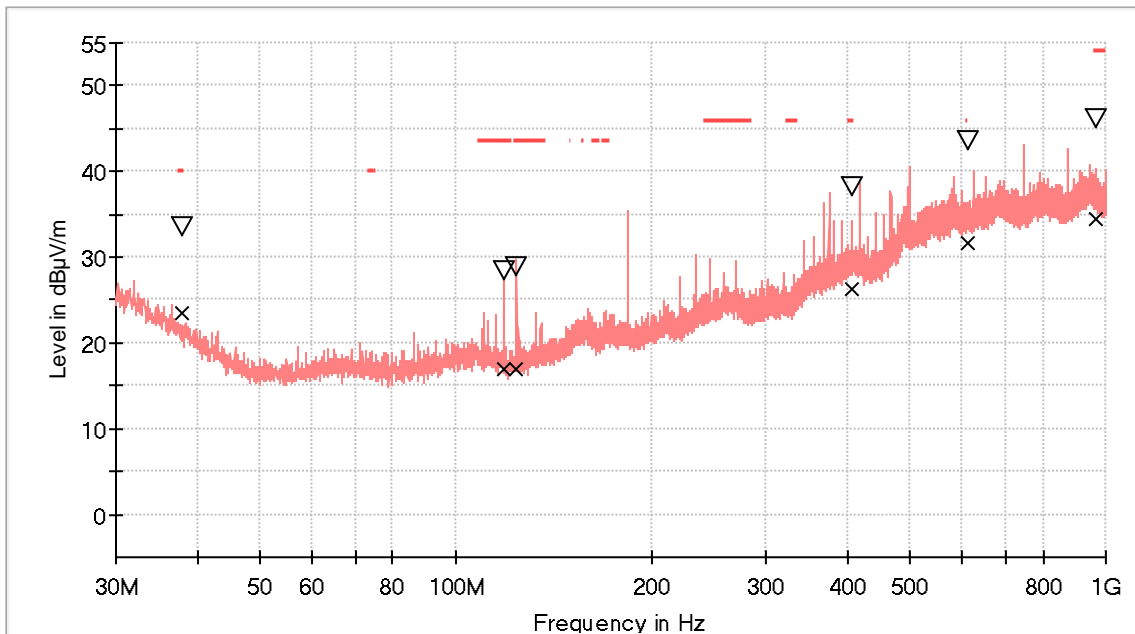
**Results**

**Middle Channel**

**Active Port = 1, Frequency Range GHz = [0.03, 1], Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MODE = SISO, Measurement Point = 6**

**Images:**

RF\_FCC\_15.407\_E Field\_30MHz\_1GHz



- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit
- ▽ MaxPeak-PK+ (Single)
- × QuasiPeak-QPK (Single)

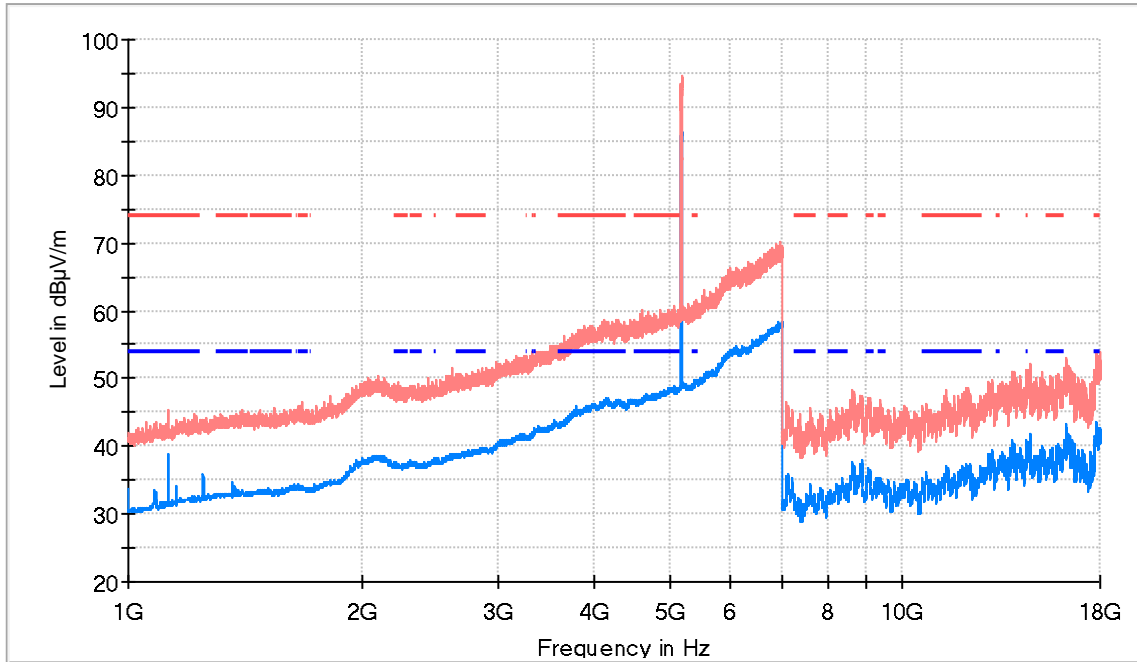
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBµV/m)
38.002500	33.5	23.5	H	16.5	40.0
118.415500	28.5	16.9	V	26.7	43.5
124.138500	28.8	16.9	V	26.6	43.5
405.535500	38.2	26.2	V	19.8	46.0
613.455000	43.6	31.7	H	14.3	46.0
968.426500	46.1	34.6	H	19.4	54.0

**UNII-1:**

**Modulation: 802.11a (OFDM 6 Mbit/s)**

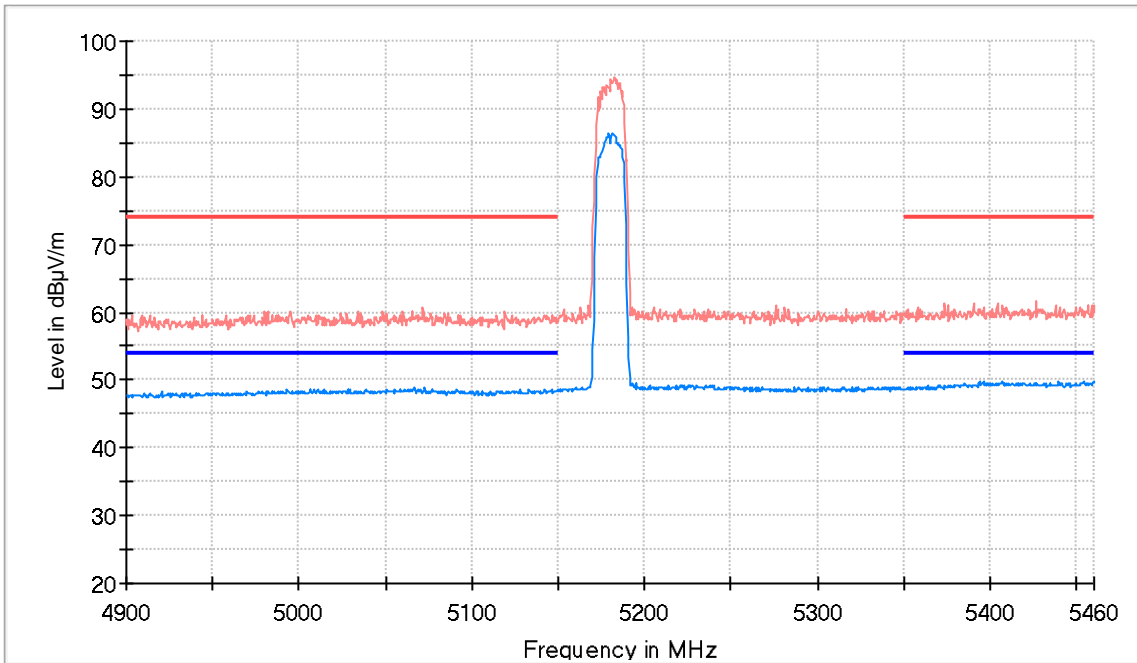
**Frequency Range GHz = [1, 18], Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1**

**Images:**



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

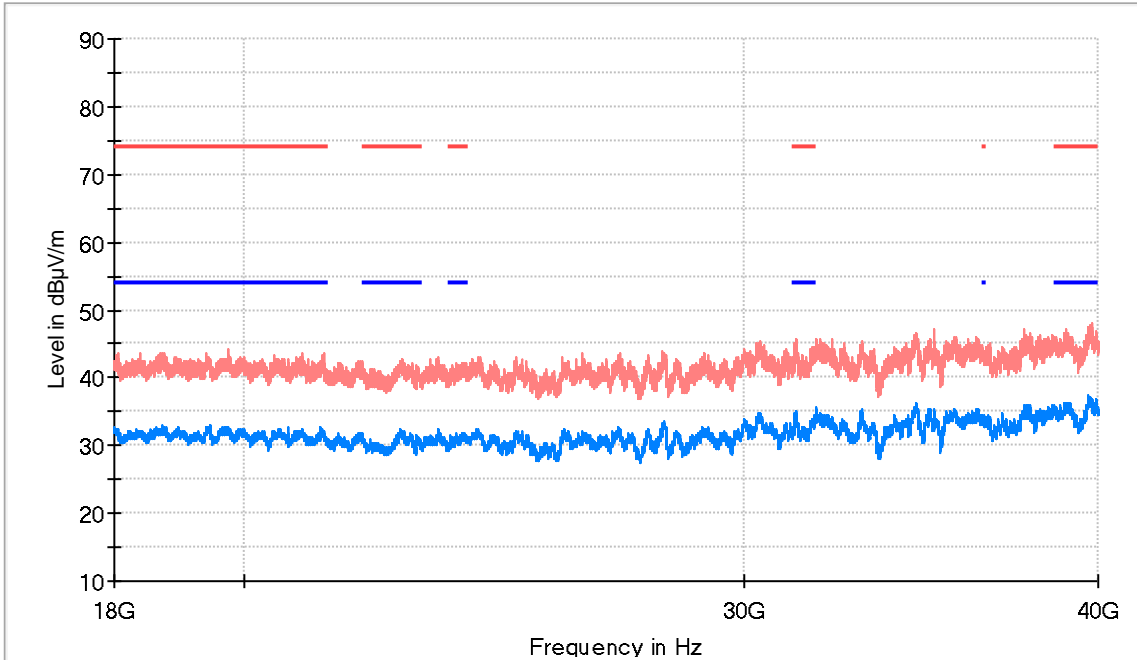
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5182.500000	94.5	86.3	H	---	---	Fundamental
5407.000000	61.1	49.9	H	4.1	54.0	
17779.500000	53.1	43.6	V	10.4	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

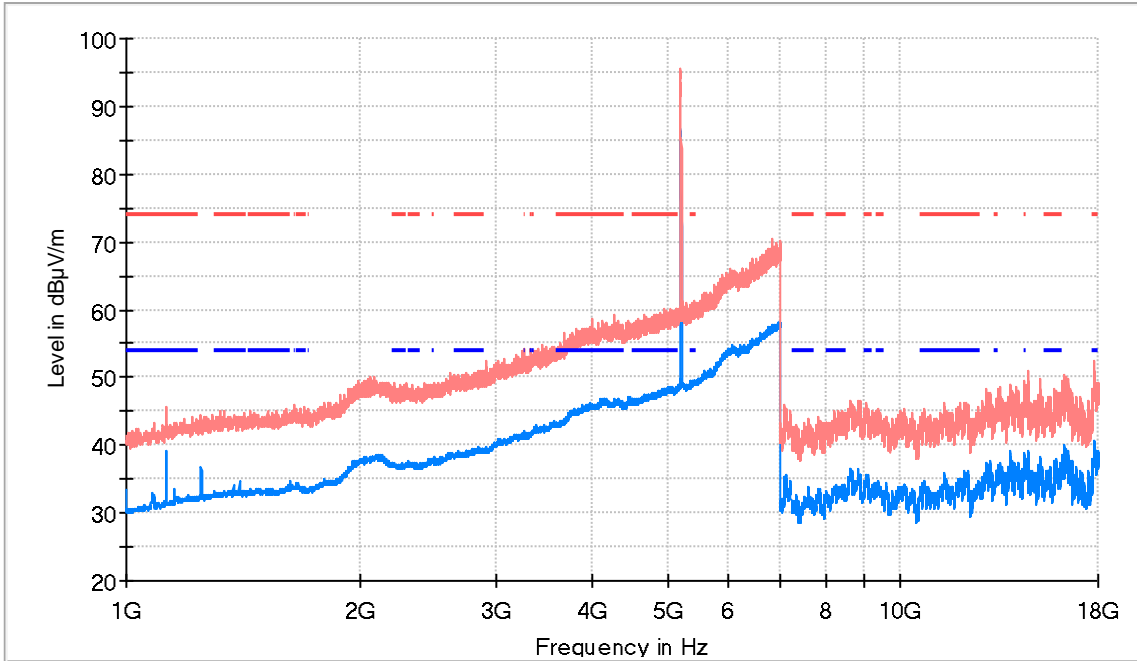


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19403.875000	43.7	32.6	H	21.4	54.0
31283.187500	45.7	34.7	H	19.3	54.0
39784.812500	48.1	36.3	H	17.7	54.0

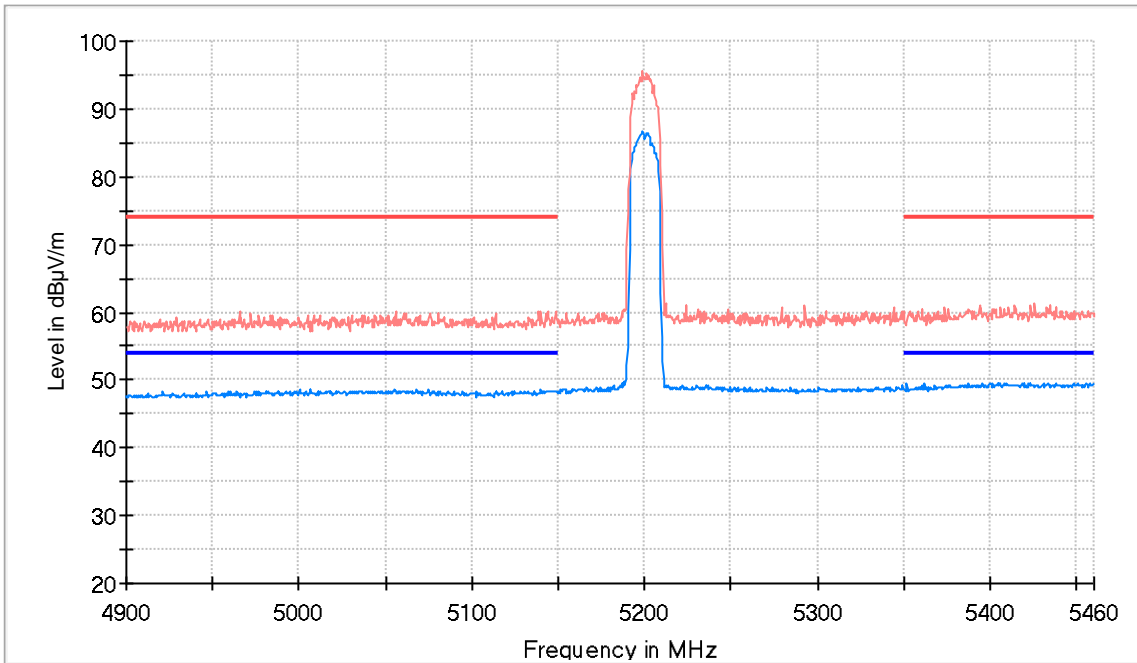
Frequency Range GHz = [1, 18], Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

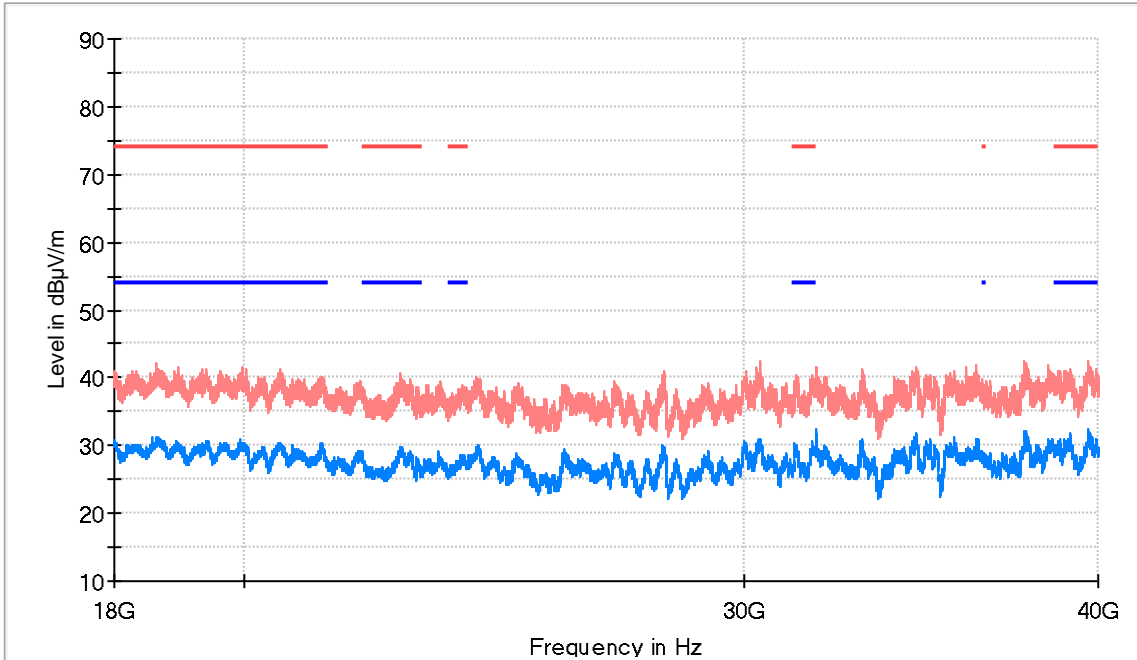
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5198.500000	95.6	86.6	H	---	---	Fundamental
5425.500000	61.3	49.1	V	4.9	54.0	
17776.000000	52.6	40.5	H	13.5	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

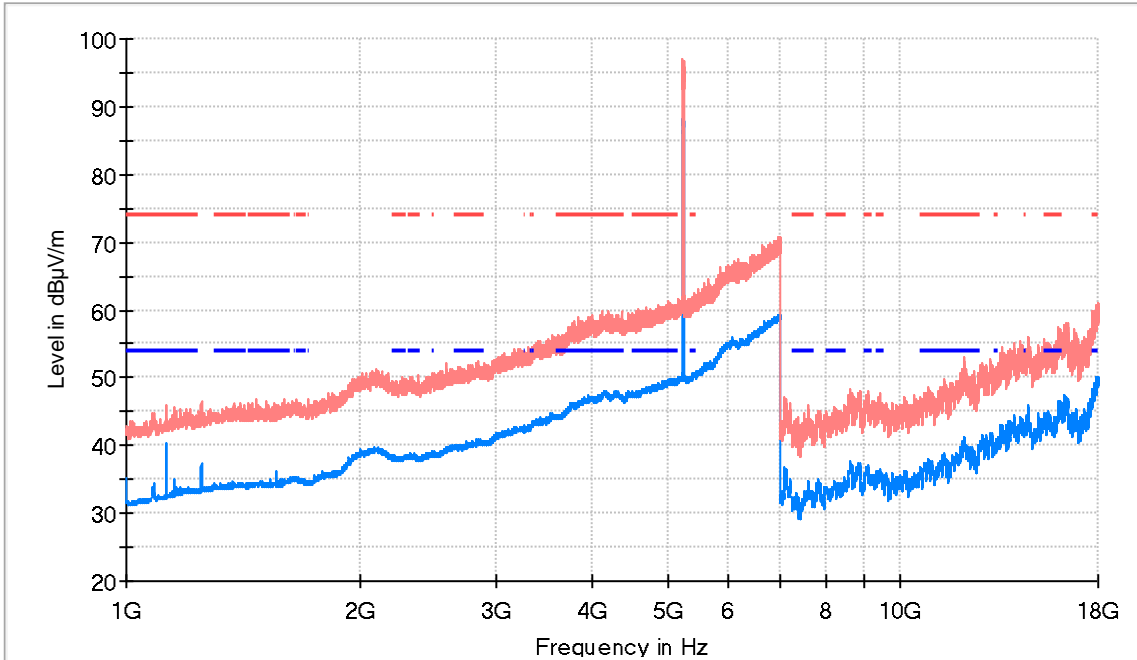


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18618.062500	42.0	30.5	H	23.5	54.0
31324.437500	40.3	29.0	V	25.0	54.0
39690.625000	42.3	31.2	H	22.8	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

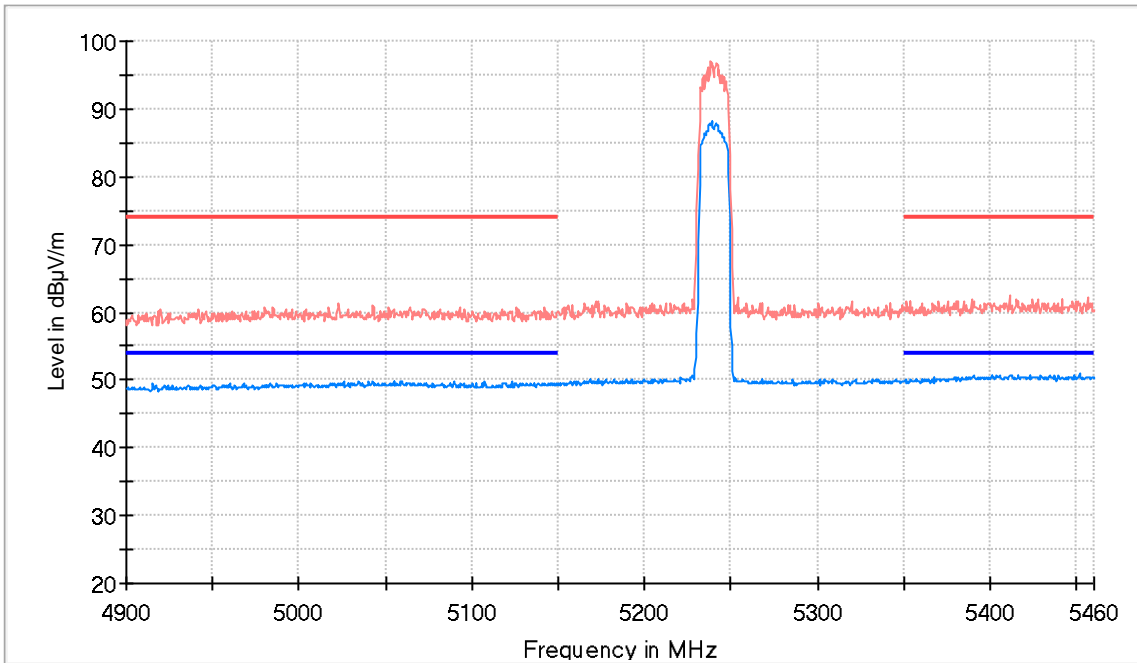
Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5238.000000	97.0	87.7	H	---	---	Fundamental
5411.000000	62.6	50.6	H	3.4	54.0	
17938.500000	59.7	50.0	H	4.0	54.0	

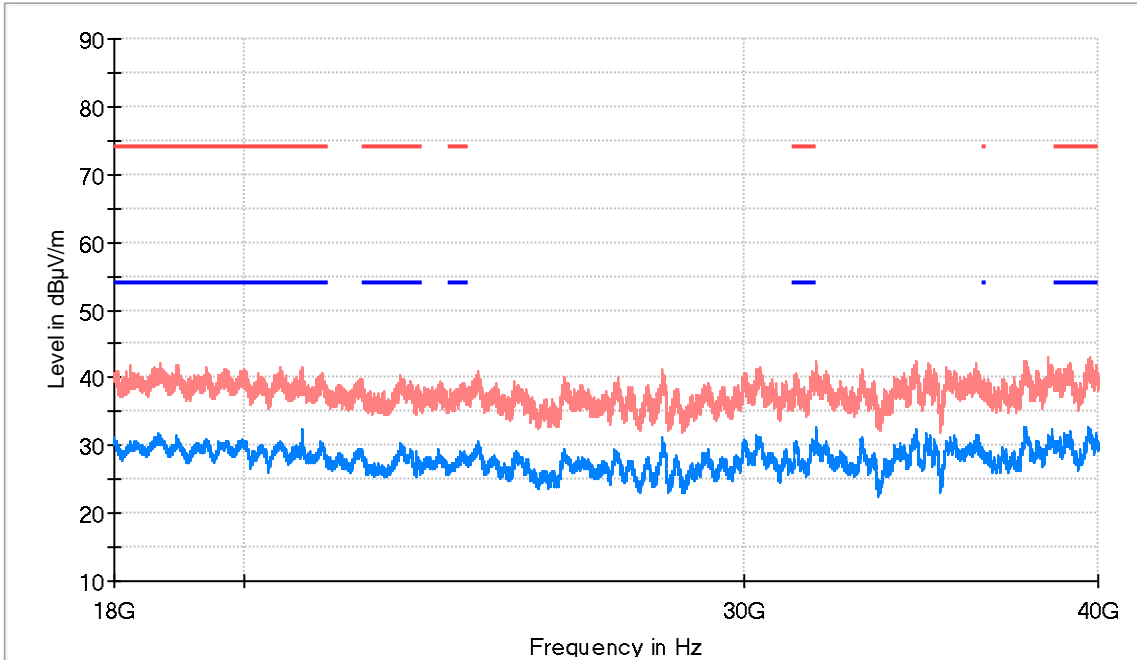




- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

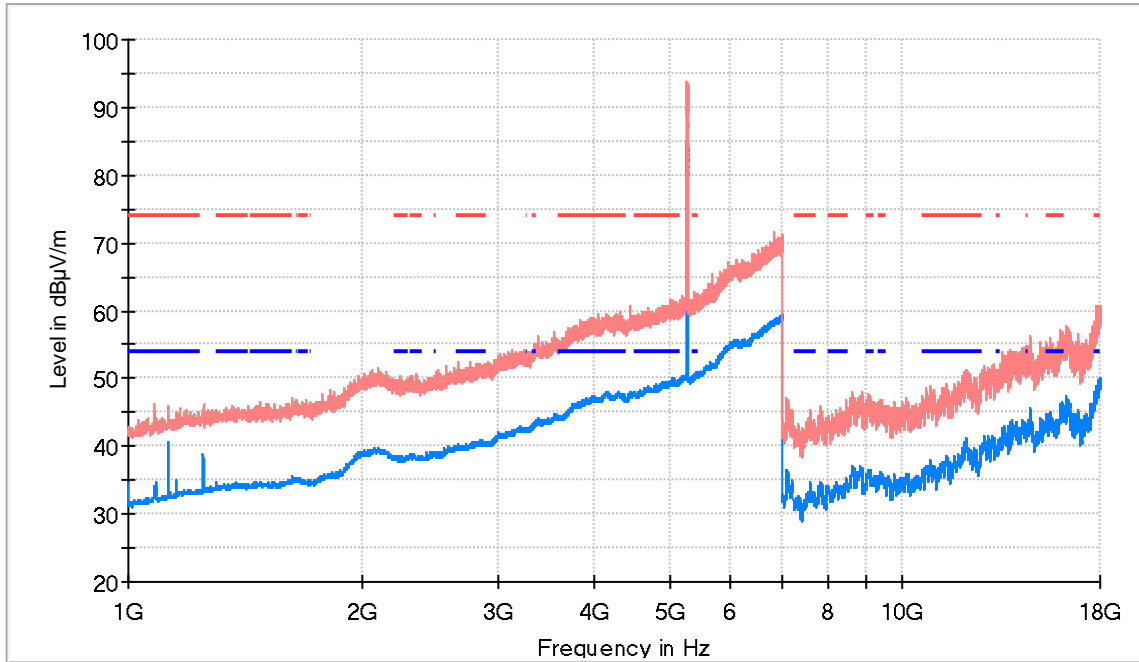
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18674.437500	42.2	30.7	V	23.3	54.0
31711.500000	40.9	29.5	H	24.5	54.0
39710.562500	42.9	31.6	H	22.4	54.0

**UNII-2A:**

**Modulation: 802.11n HT40 (OFDM MCS0)**

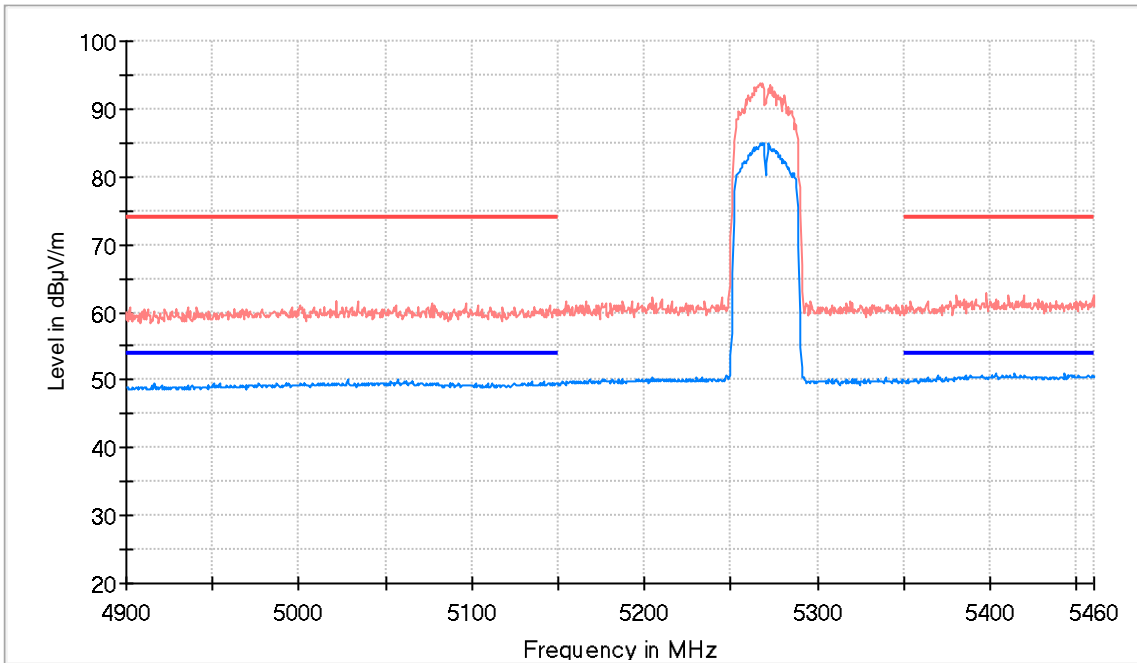
**Frequency Range GHz = [1, 18], Frequency MHz = 5270.00000, Modulation = Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO, Measurement Point = 1**

**Images:**



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

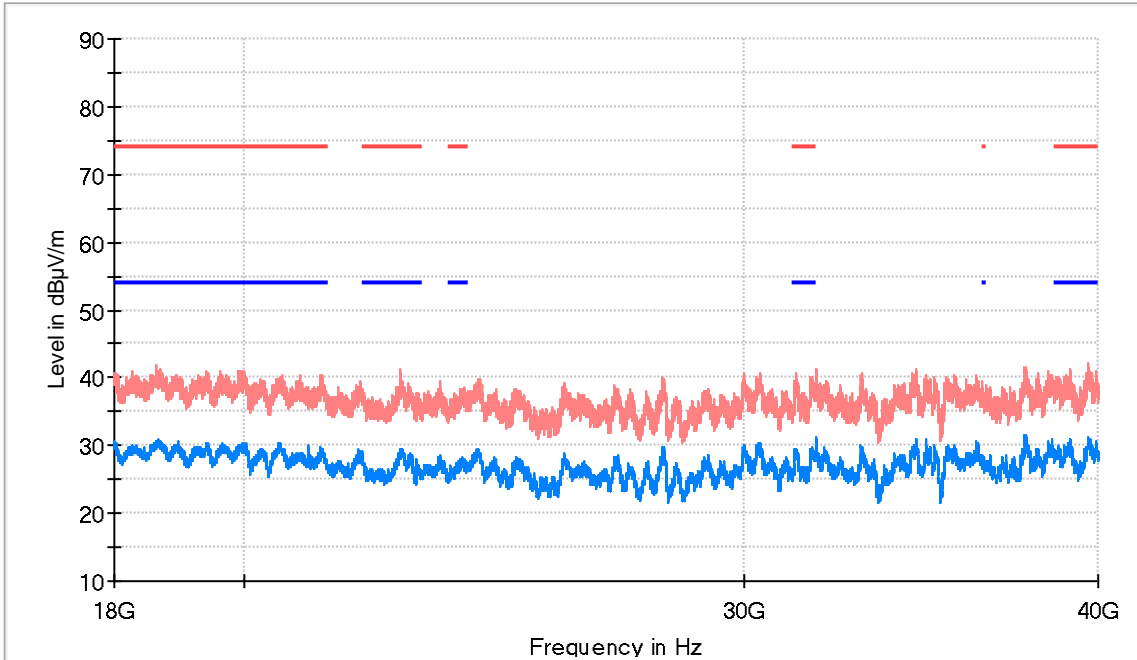
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5267.000000	93.7	84.8	H	---	---	Fundamental
5397.500000	62.9	50.4	H	3.6	54.0	
17917.000000	60.6	48.9	V	5.1	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5270.00000, Modulation = Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO, Measurement Point = 1

Images:

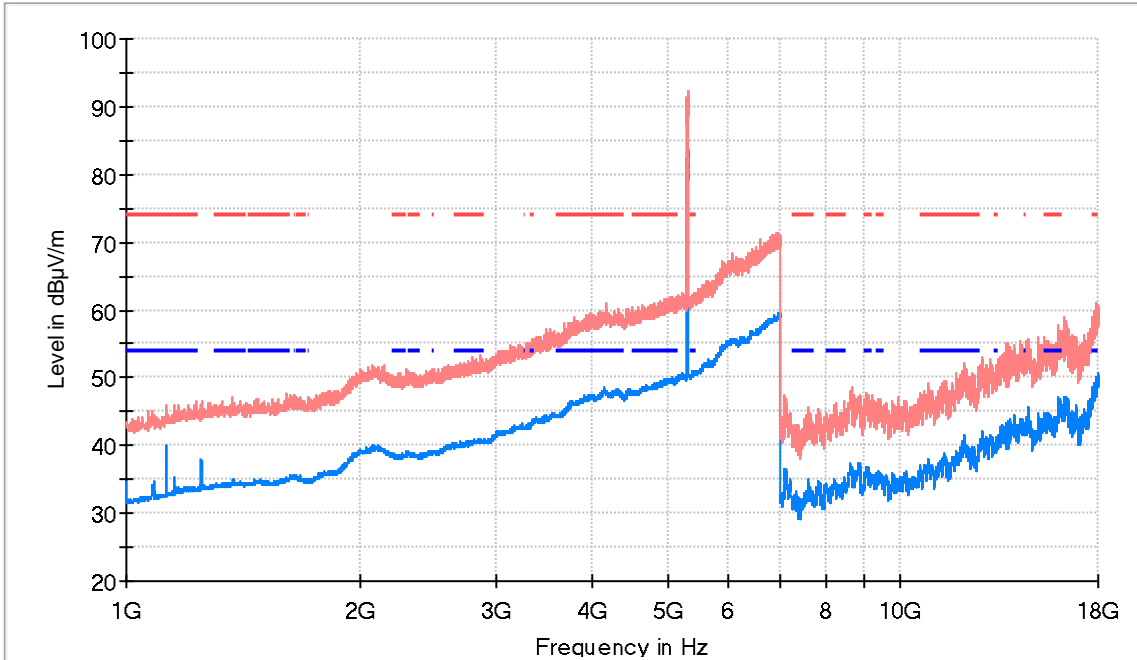


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18636.625000	41.7	29.7	V	24.3	54.0
31313.437500	40.8	28.9	V	25.1	54.0
39706.437500	42.3	30.6	H	23.4	54.0

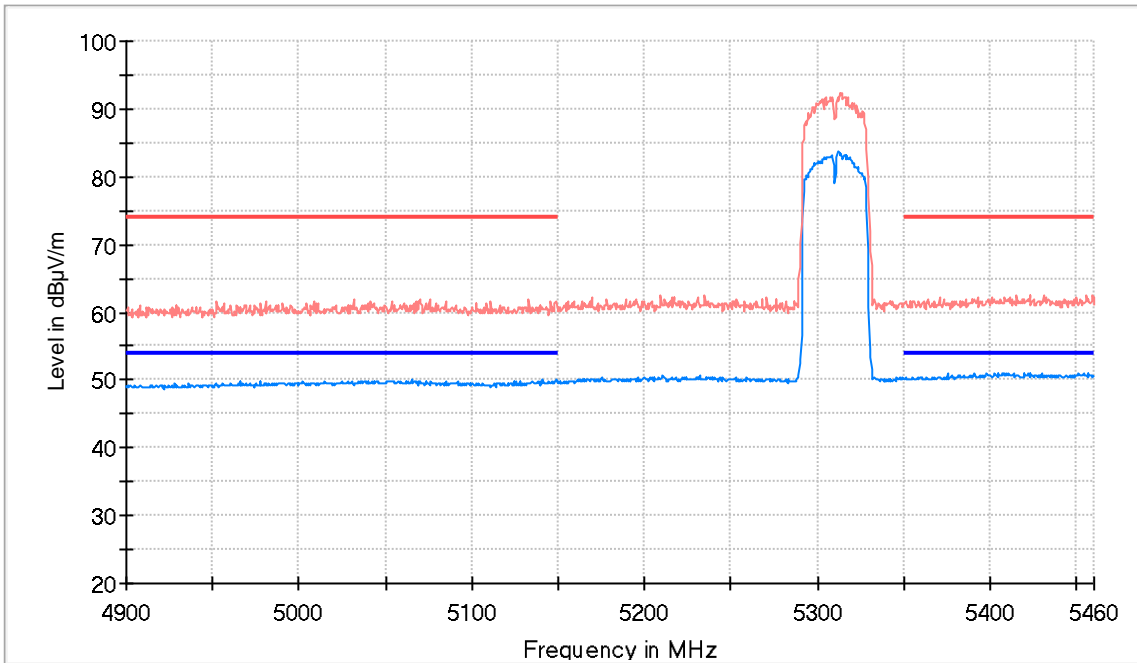
Frequency Range GHz = [1, 18], Frequency MHz = 5310.00000, Modulation = Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

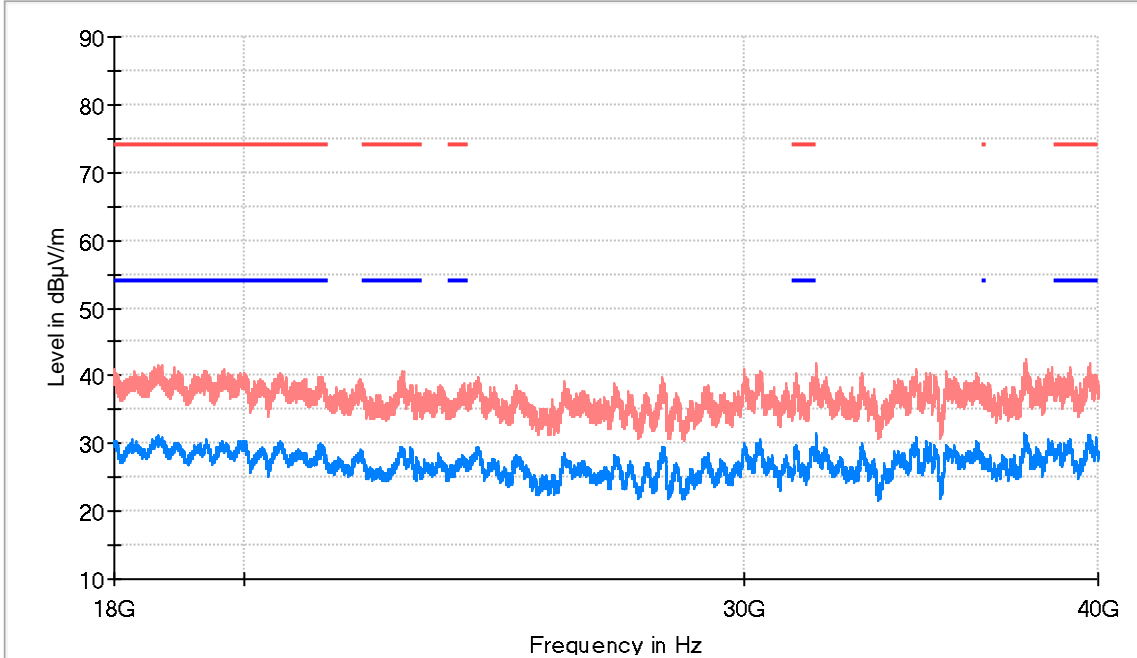
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5314.000000	92.4	82.9	H	---	---	Fundamental
5430.500000	62.5	50.7	H	3.3	54.0	
17971.000000	59.4	50.7	V	3.3	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5310.00000, Modulation = Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

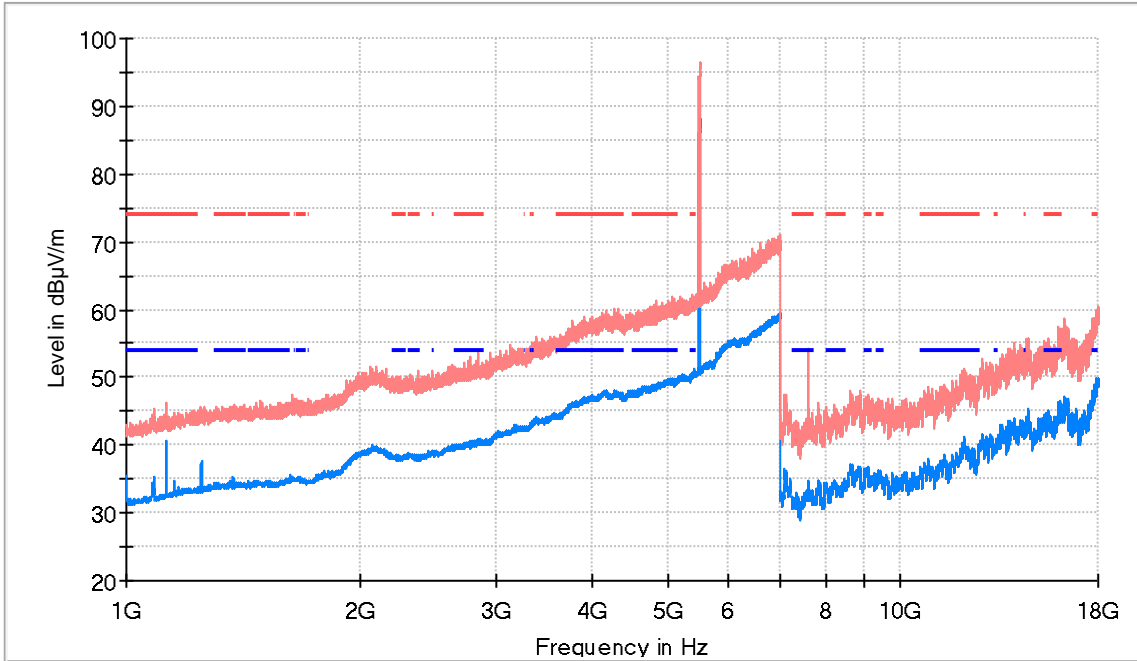
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18655.875000	41.6	30.2	H	23.8	54.0
31303.125000	40.3	29.7	V	24.3	54.0
39709.875000	42.0	30.2	V	23.8	54.0



**UNII-2C:**

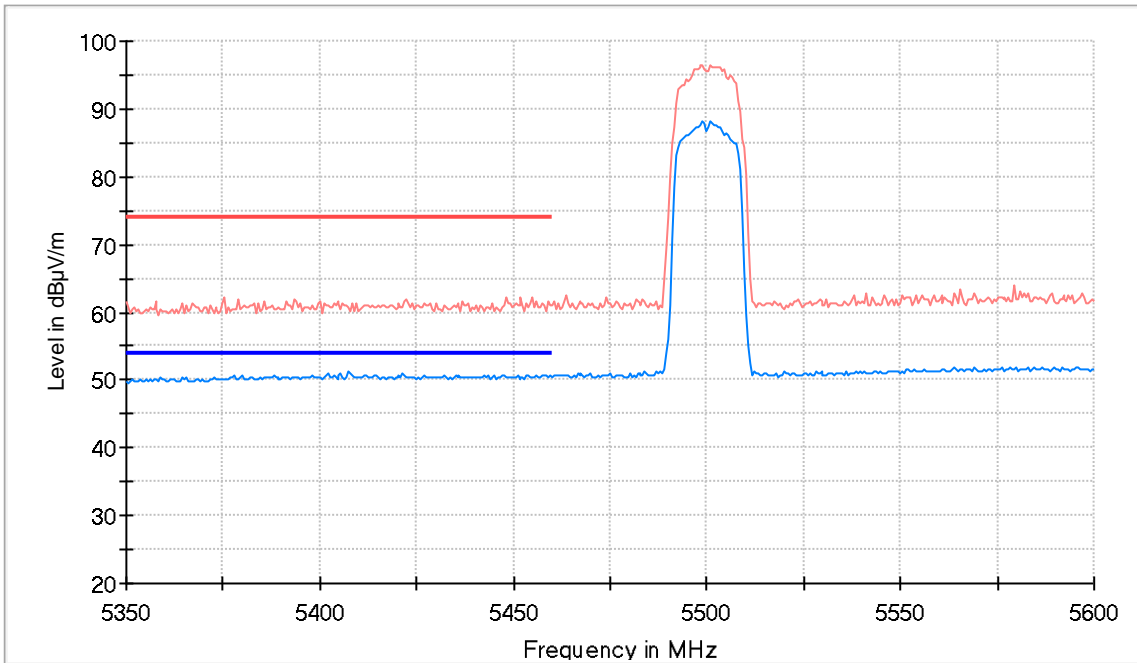
Frequency Range GHz = [1, 18], Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

**Images:**



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

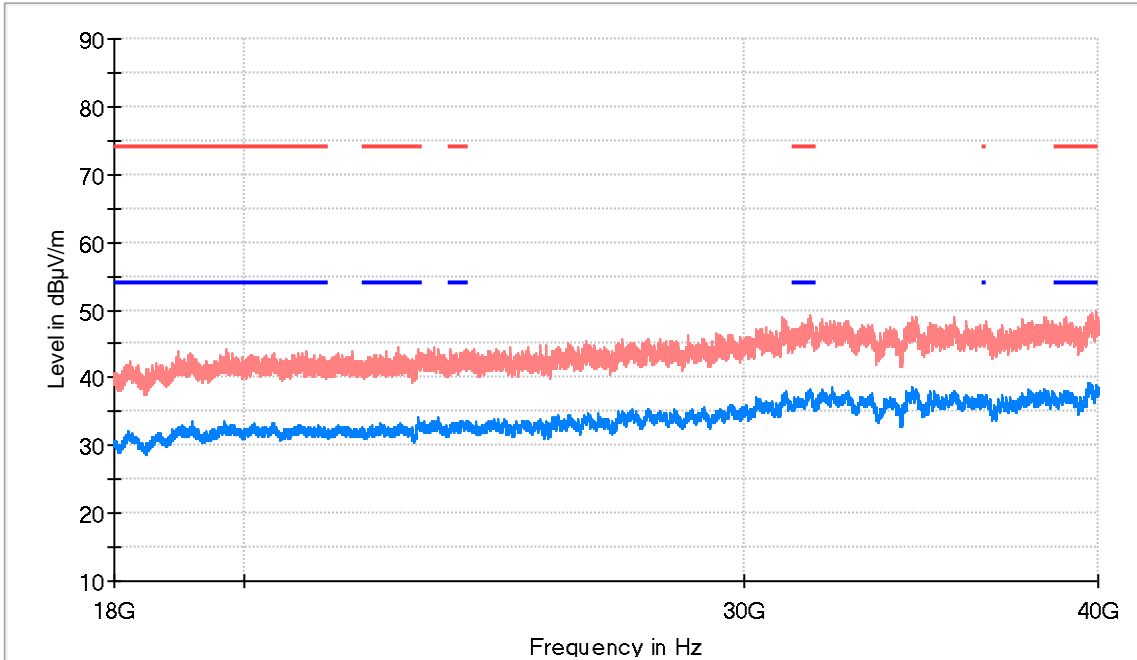
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5408.000000	60.3	51.0	V	3.0	54.0	
5501.000000	96.5	88.3	H	---	---	Fundamental
17973.000000	60.5	49.2	H	4.8	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

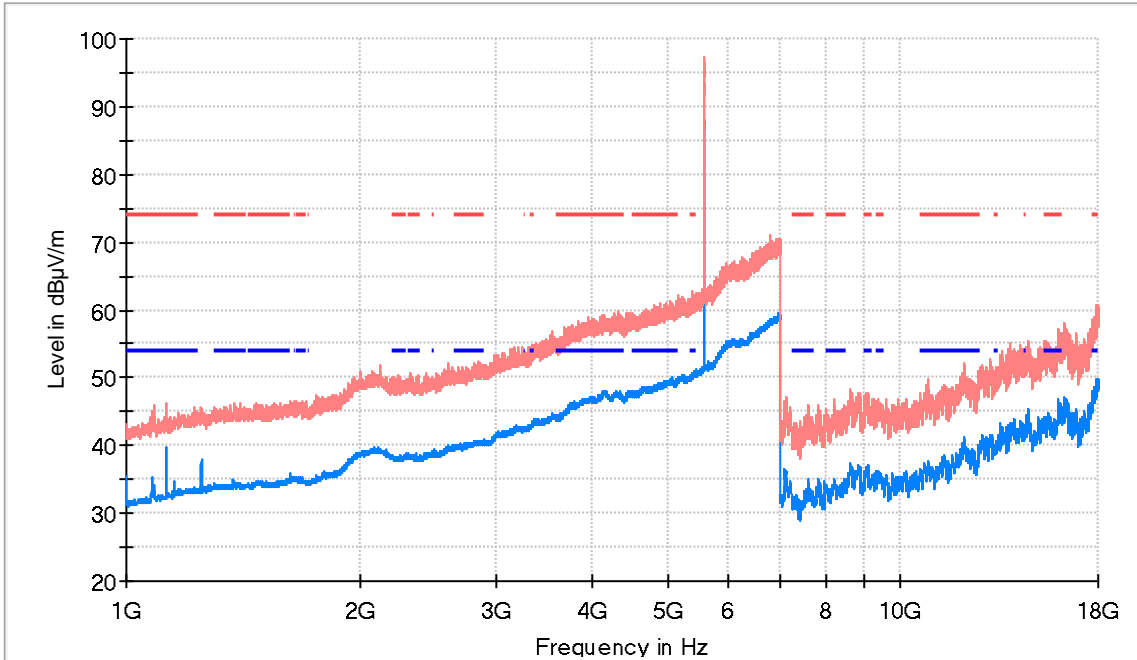


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18961.812500	44.0	32.5	V	21.5	54.0
31642.062500	49.3	37.4	H	16.6	54.0
39936.750000	49.8	37.9	V	16.1	54.0

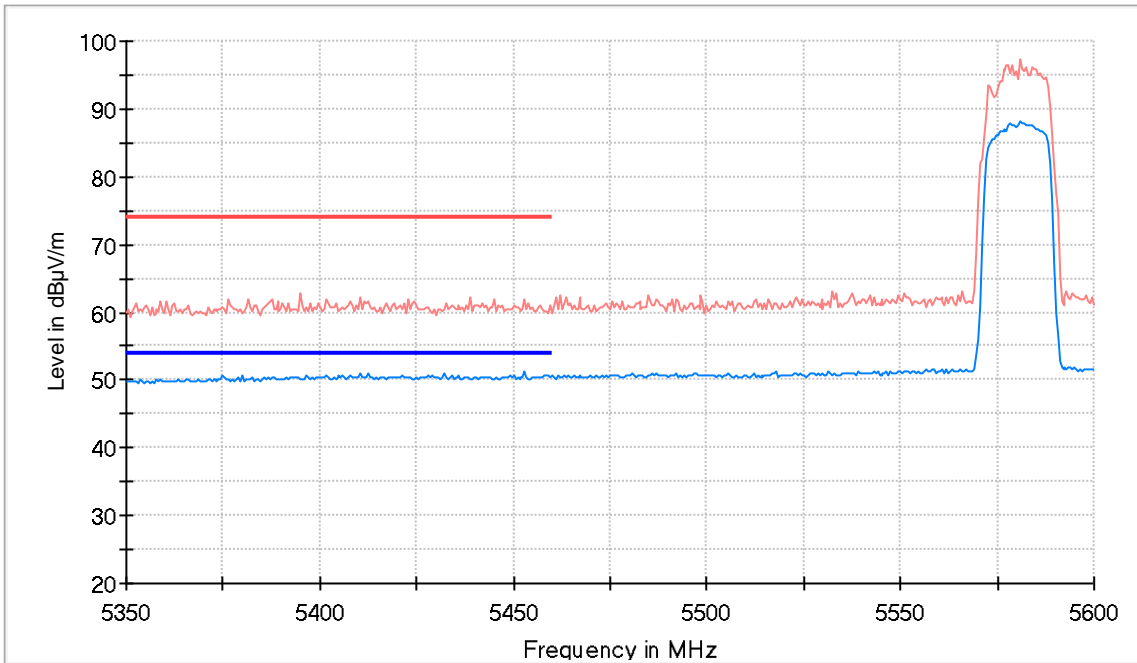
Frequency Range GHz = [1, 18], Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

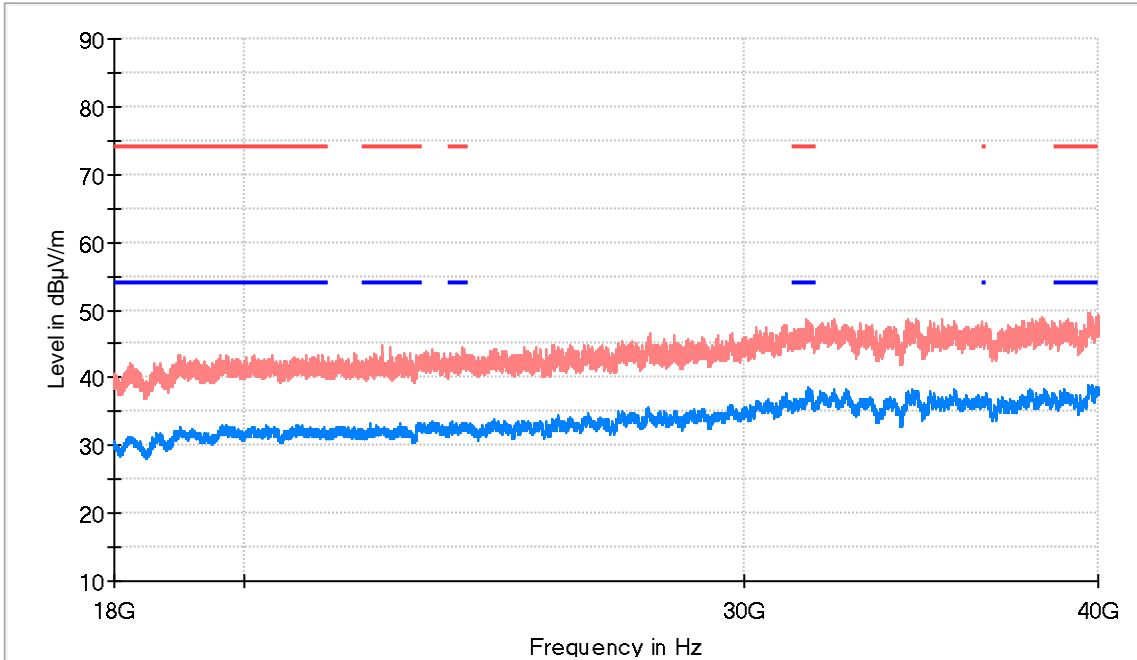
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Poi	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5395.000000	62.9	50.1	H	3.9	54.0	
5581.000000	97.2	88.3	H	---	---	Fundamental
17967.00000	60.9	49.1	H	4.9	54.0	



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

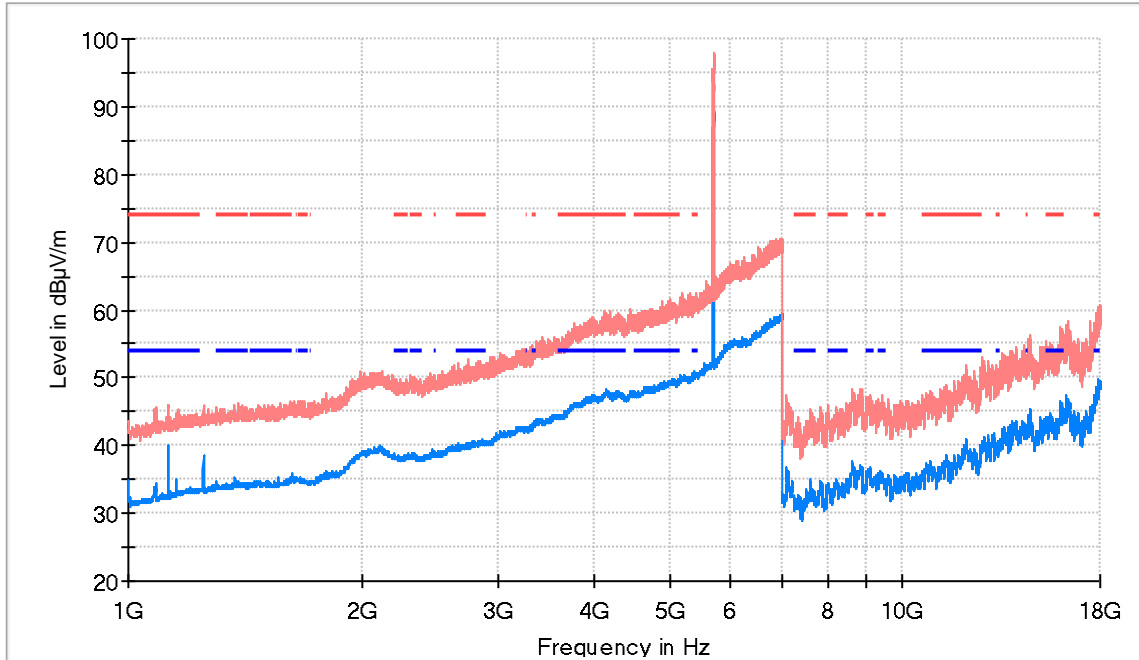


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
22386.937500	44.7	31.9	V	22.1	54.0
31568.500000	48.8	37.0	V	17.0	54.0
39689.937500	49.6	38.8	H	15.2	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

Images:

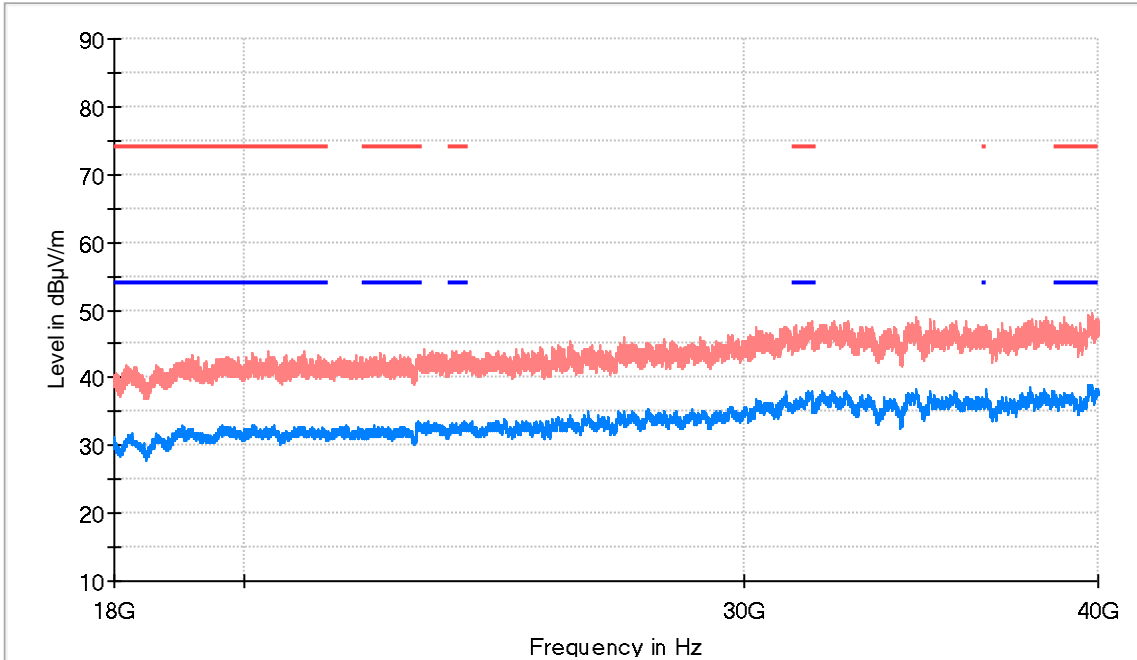


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5412.000000	62.5	50.1	V	3.9	54.0	
5701.000000	98.0	89.0	H	---	---	Fundamental
17975.000000	60.8	49.4	H	4.6	54.0	

Frequency Range GHz = [18, 40], Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20402.125000	44.0	31.2	H	22.8	54.0
31697.750000	48.3	36.3	V	17.7	54.0
39810.250000	49.5	37.7	V	16.3	54.0

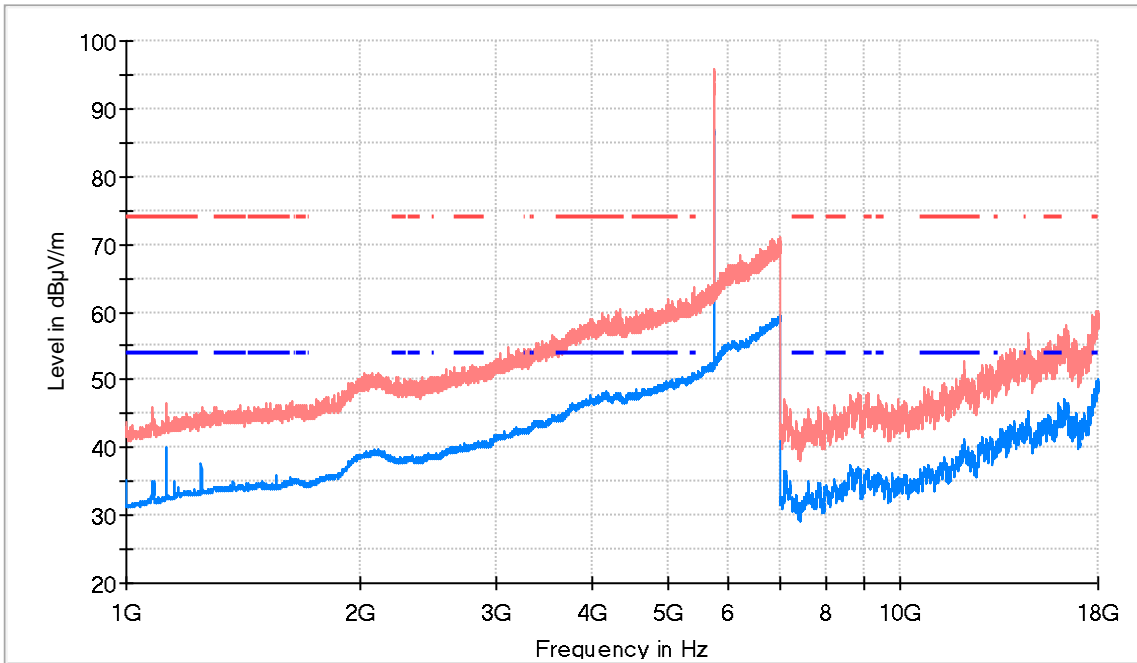


**UNII-3:**

**Modulation: 802.11a (OFDM 6 Mbit/s)**

**Frequency Range GHz = [1, 18], Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1**

**Images:**

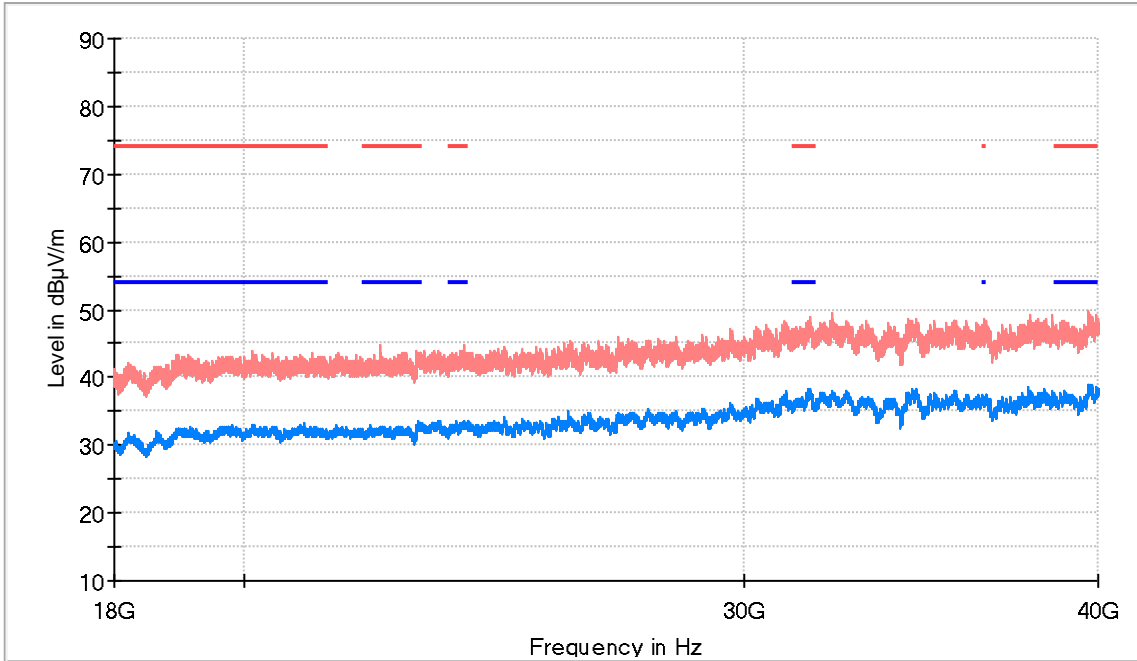


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5414.500000	63.6	50.7	H	3.3	54.0	
5747.000000	95.9	86.9	H	---	---	Fundamental
17977.500000	60.2	49.5	V	4.5	54.0	

Frequency Range GHz = [18, 40], Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

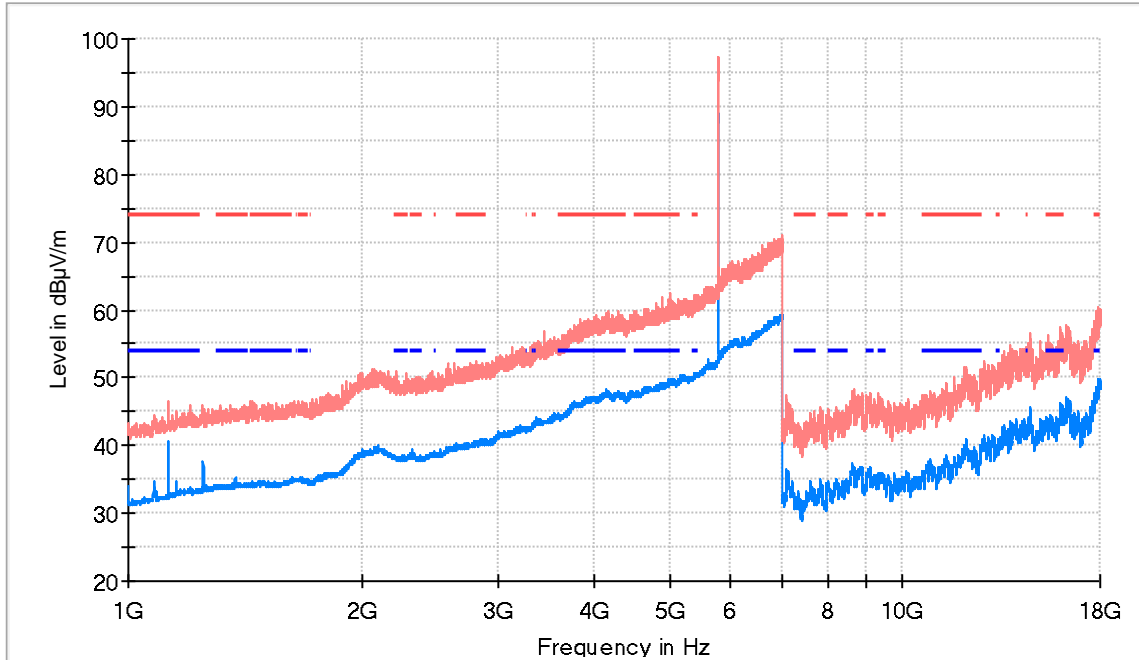


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
22334.687500	44.7	32.1	V	21.9	54.0
31648.250000	49.0	37.6	H	16.4	54.0
39696.125000	49.9	38.4	H	15.6	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

Images:

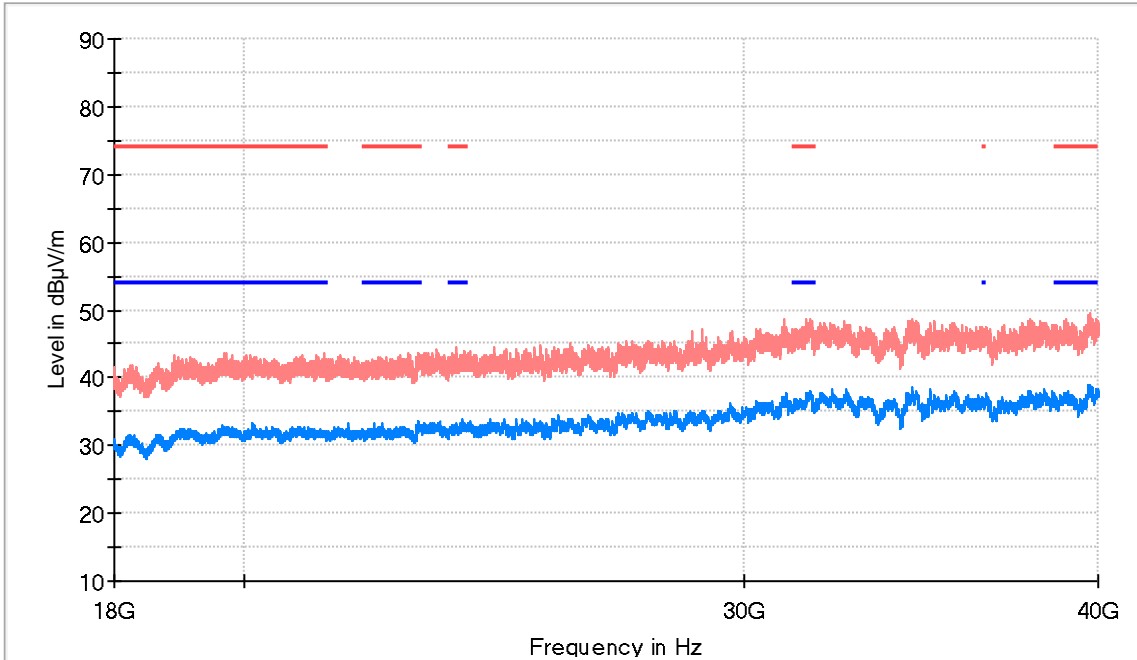


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5415.500000	62.3	50.8	V	3.2	54.0	
5787.000000	97.4	88.4	H	---	---	Fundamental
17933.500000	60.5	49.1	H	4.9	54.0	

Frequency Range GHz = [18, 40], Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:

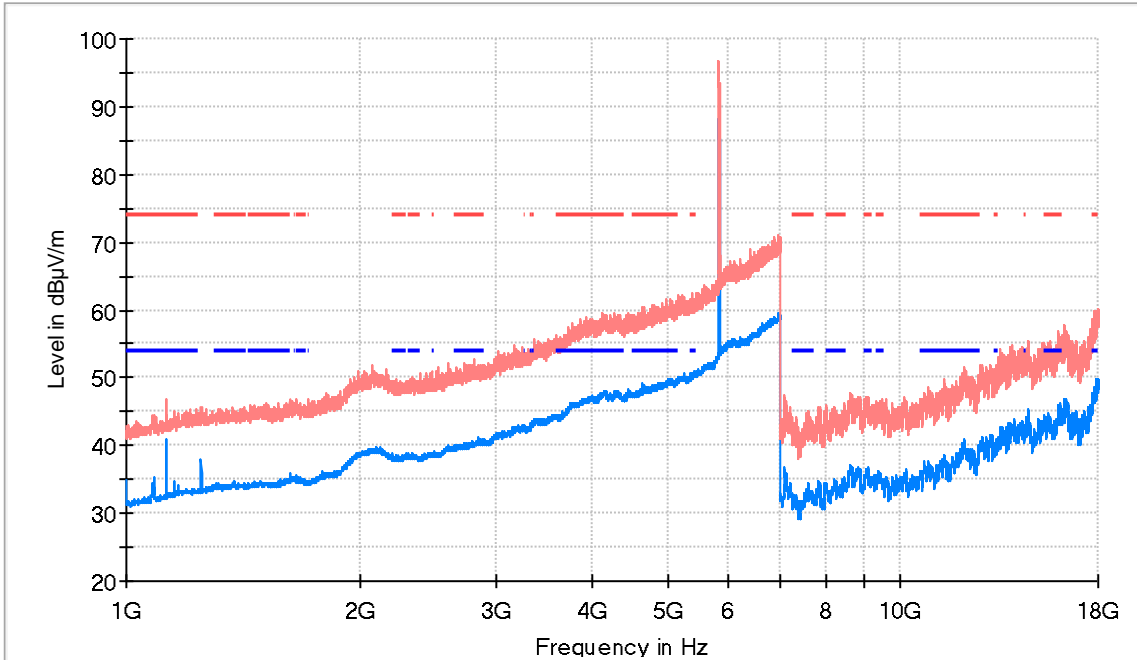


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18886.187500	43.4	31.2	H	22.8	54.0
31545.125000	48.7	36.6	V	17.4	54.0
39765.562500	49.5	37.9	H	16.1	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO, Measurement Point = 1

Images:

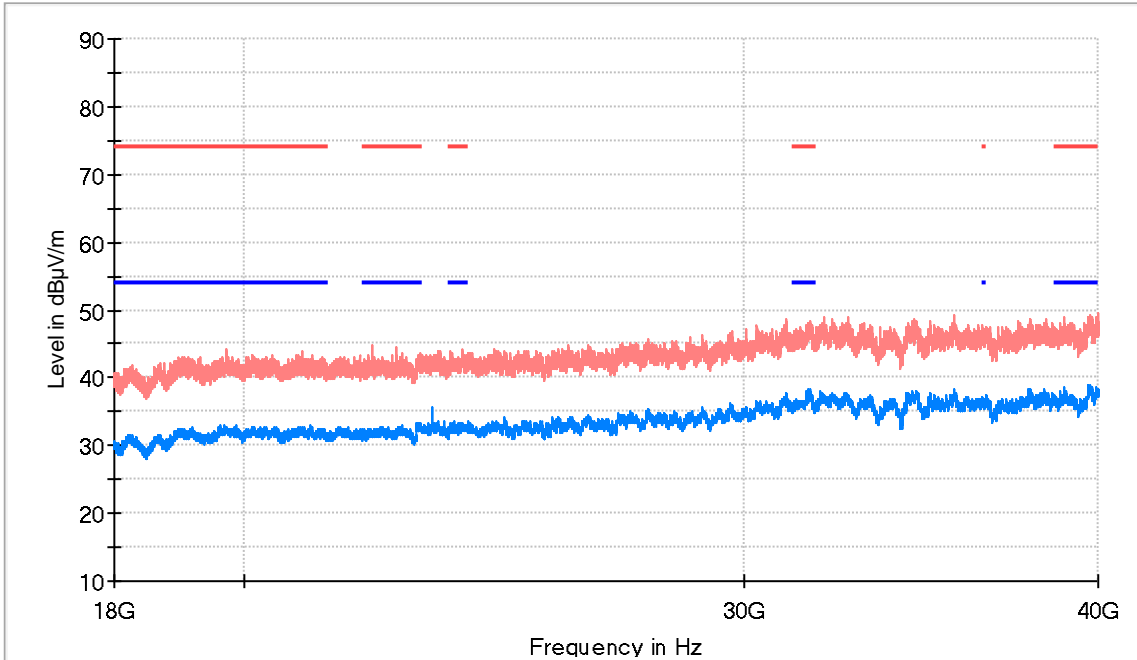


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
5380.000000	62.5	50.1	V	3.9	54.0	
5826.500000	96.8	87.7	H	---	---	Fundamental
17779.500000	59.8	48.5	H	5.5	54.0	

Frequency Range GHz = [18, 40], Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s),  
 Mode = SISO, Measurement Point = 1

Images:



- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
22175.187500	44.9	31.8	H	22.2	54.0
31640.000000	48.5	37.2	H	16.8	54.0
39997.250000	49.5	37.9	H	16.1	54.0