



FCC LISTED, REGISTRATION  
NUMBER: 2764.01

Test report No:

ISED LISTED REGISTRATION  
NUMBER: 23595-1

2818ERM.006A1

## Partial Test report

USA FCC Part 15.407 (U-NII), 15.209

CANADA RSS-210, RSS-Gen

Unlicensed National Information Infrastructure Devices. General technical requirements.

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

Identification of item tested	Automotive infotainment System
Trademark	Mercedes-Benz
Model and /or type reference	NTG7 PREMIUMPLUS LFT2
Other identification of the product	FCC ID: 2AOUZ NTG7PRPLFT2 IC: 23650-NTG7PRPLFT2
Features	FM/AM/DAB/DVBT, USB, Bluetooth, WLAN, GNSS.
Manufacturer	CONTINENTAL AUTOMOTIVE GMBH VDO-Strasse 1, 64832 Babenhausen, GERMANY
Test method requested, standard	USA FCC Part 15.407 10-1-18 Edition: Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 10-1-18 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 KDB 662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band 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	08-26-2020
Report template No	FDT08_22 (* "Data provided by the client")

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## Competences and guarantees

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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.

Frequency (MHz)	U(k=2)	Units
0,009 - 30	2.69	dB
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

## Data provided by the client

The test sample consist of an automotive head unit to be installed in cars with the following features: FM/AM/DAB/DVBT, USB, Bluetooth, WLAN and GNSS.

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:

Control N°	Description	Model	Serial N°	Date of reception
2818/01	Automotive Infotainment System	NTG7 PREMIUMPLUS LFT2	COM620LB0000001	04/07/2020

Sample S/01 has undergone following test(s):

All radiated tests indicated in appendix B & C.

Accessory elements used for Testing with S/01:

Control N°	Description	Model	Serial N°	Date of reception
2818/03	SMA adapter cable	--	--	04/07/2020
2818/04	Harness	--	--	04/07/2020

1. Accessory elements were used for the following test(s):

All radiated tests indicated in appendix B & C.

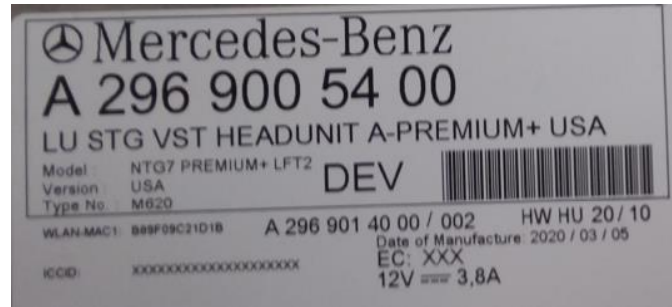
## Test sample description

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient <sup>(3)</sup>		
	<i>Car Connector A</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<i>Car Connector B</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<i>Display Connector CID/PIP / RVC</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<i>USB Connector</i>	<3m <sup>(x2)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<i>Eth Connector</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<i>BT/WLAN-Antenna</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<i>FM/AM, TV/SDARS Ant</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<i>GNSS Antenna</i>	>3m <sup>(x1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Supplementary information to the ports..... :							
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: 12V Car battery / attenuator (9,5-15,5V normal operation)					
<input type="checkbox"/>	DC:						
Rated Power .....	9,5-15,5V normal operation						
Clock frequencies .....	see schematics						
Other parameters..... :	See Technical Description						
Software version .....	<b>E17.100</b>						

Hardware version.....:	<b>D5</b>		
Dimensions in cm (W x H x D).....:	182 x 78 x 160 mm		
Mounting position.....:	<input type="checkbox"/>	Table top equipment	
	<input type="checkbox"/>	Wall/Ceiling mounted equipment	
	<input type="checkbox"/>	Floor standing equipment	
	<input type="checkbox"/>	Hand-held equipment	
	<input checked="" type="checkbox"/>	Other: automotive headunit	
Modules/parts .....	<b>Module/parts of test item</b>	<b>Type</b>	<b>Manufacturer</b>
	n/a	-	
		-	
		-	
		-	
Accessories (not part of the test item) .....	<b>Description</b>	<b>Type</b>	<b>Manufacturer</b>
	Display	-	LG.
	HARMANeco RasPi / headless	-	HBAS
	Cable harness	-	HBAS
	BT/WLAN-Antenna	-	Hirschmann

Documents as provided by the applicant.....:	Description	File name	Issue date
	Technical Description	Technical Description NTG7_A15 200324 SOP2 AllVariant.doc	

**Copy of marking plate:**



## Identification of the client

CONTINENTAL AUTOMOTIVE GMBH  
 VDO-Strasse 1, 64832 Babenhausen, GERMANY.

## Testing period and place

<b>Test Location</b>	DEKRA Certification Inc.
<b>Date (start)</b>	05-01-2020
<b>Date (finish)</b>	05-07-2020

## Document history

Report number	Date	Description
2818ERM.006	08-13-2020	First release
2818ERM.006A1	08-26-2020	Second release

## Modifications to the reference test report

It was introduced the following modification in respect to the test report number 2818ERM.006 related with the same samples:

Clauses/ Sub-Clauses	Modification	Justification
Title Page	Modified FCC and IC ID	Requested by the customer.

This modification test report cancels and replaces the test report 2818ERM.006

## 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. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

## Remarks and comments

The tests have been performed by the technical personnel: Bhagyashree Chaudhary, Lakshmi Gollamudi, Koji Nishimoto and Lourdes Maria Valverde.



## Testing verdicts

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

## Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.15 GHz -5.25 GHz Band					
Report Section	FCC Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
--	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.1	26dB Emission Bandwidth & Occupied Bandwidth	N/A	Refer 2
--	§ 15.407 (a) (1) (4) KDB 662911 D01 E (1)	RSS 247 6.2.1.1	Power Limits. Maximum Output Power	N/A	Refer 2
--	§ 15.407 (a) (1) (5)	RSS-247 6.2.1.1	Maximum Power Spectral Density	N/A	Refer 2
--	§ 15.407 (b) (1)	RSS-247 6.2.1.2	Band-edge radiated emissions compliance (Transmitter)	N/A	Refer 2
--	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	N/A	Refer 2
B.1	§ 15.407 (b)(1)(6)(7) § 15.209 § 15.205	RSS-247 6.2.1.2 RSS-Gen 8.9 & 8.10	Undesirable radiated emissions (Transmitter)	P	N/A
--	§ 15.407 (g)	RSS-Gen 6.11 & 8.11	Frequency Stability	N/M	Refer 1

### Supplementary information and remarks:

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

- 1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.
- 2) Test not performed. Only Radiated Spurious tests were requested.

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.725 GHz -5.85 GHz Band					
Report Section	FCC Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
--	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	N/A	Refer 2
--	§ 15.407 (e)	RSS 247 6.2.4.1	6 dB Emission	N/A	Refer 2
--	§ 15.407 (a)(3)(4) KDB 662911 D01 E (1)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	N/A	Refer 2
--	§ 15.407 (a)(3)(5)	RSS-247 6.2.4.1	Maximum Power Spectral Density	N/A	Refer 2
--	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge radiated emissions compliance (Transmitter)	N/A	Refer 2
--	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	N/A	Refer 2
C.1	§ 15.407 (b)(4)(6)(7) § 15.209 § 15.205	RSS-247 6.2.4.2 RSS-Gen 8.9 & 8.10	Undesirable radiated emissions (Transmitter)	P	N/A
--	§ 15.407 (g)	RSS-Gen 6.11 & 8.11	Frequency Stability	N/M	Refer 1
<p><b>Supplementary information and remarks:</b></p> <p>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</p> <p>1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.</p> <p>2) Test not performed. Only Radiated Spurious tests were requested.</p>					

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) Common Requirements for all bands					
Report Section	FCC Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
--	§ 15.407 (c)	--	Transmission in case of absence of information to transmit, or operational failure.	N/M	Refer 1
<p><b>Supplementary information and remarks:</b></p> <p>1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.</p>					

## List of equipment used during the test

### Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber	Frankonia	SAC 3 plus "L"	N/A	N/A
1064	Biconical Log antenna	ETS LINDGREN	3142E	2018/01	2021/01
1057	Double-ridge Waveguide Horn antenna 1-18 GHz	ETS LINDGREN	3115	2017/05	2020/05
1056	Double-ridge Waveguide Horn antenna	ETS LINDGREN	3116C	2020/01	2023/01
1014	Spectrum analyzer	Rohde & Schwarz	FSV40	2019/04	2021/04
1012	EMI TEST RECEIVER	Rohde & Schwarz	ESR 26	2019/12	2021/12
0982	RF pre-amplifier 1-18 GHz	Bonn Elektronik	BLMA1840-1M	2018/10	2021/10

## Appendix A: DUT Description

## DUT Description

The following information is provided by the client

Information	Description
Equipment type	WIFI 5GHz
Antenna Specification	Equipment with only one antenna
Operating Frequency Range	5150 - 5250 MHz / 5725- 5850 MHz
Nominal Channel Bandwidth	20 MHz/40MHz/80MHz
Max RF Output Power	<20 dBm
Antenna type	Dedicated antenna (single)
Antenna gain	2.5 dBi
Supply Voltage	13.2 Vdc
Transmit Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20/HT40: 0-7 -SISO 8-15- MIMO IEEE 802.11ac VHT20: (0-8)-SISO (0x2-8x2)- MIMO IEEE 802.11ac VHT40-/VHT80: (0-9)-SISO (0x2-9x2)- MIMO
Geo-location capability	No

1. TPC not required if Max EIRP < 500mW (27 dBm)

## Appendix B: Test results 5.15 GHz – 5.25 GHz Band

## Appendix B Content

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TEST B.1: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER) .....	17

## DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 <sup>(1)</sup> <b>(a mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest range: 5180 MHz Middle channel: 5200 MHz Highest range: 5240 MHz
TC#02 <sup>(1)</sup> <b>(n mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz  <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz
TC#03 <sup>(1)</sup> <b>(ac mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz  <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz  <u>Test Frequencies for Conducted/Radiated tests: (80 MHz)</u> Lowest channel: 5210

Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20, 802.11n40, 802.11ac80 a preliminary scan was performed to determine the worst case.

The data rates of 6 Mbps for 802.11a, MCS0 for 802.11n20/n40 and MCS 0 for 802.11ac20/ac40/ac80 were selected based on preliminary testing that identified those rates corresponding to the worst cases.



## TEST B.1: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b) (1)(6)(7) and RSS-247 6.2.1.2

### 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).

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) / RSS-Gen):

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

### TEST SETUP

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 (Bilog antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 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.

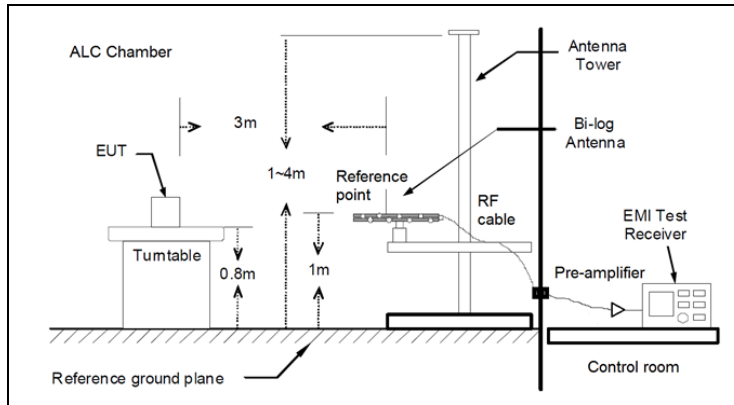
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

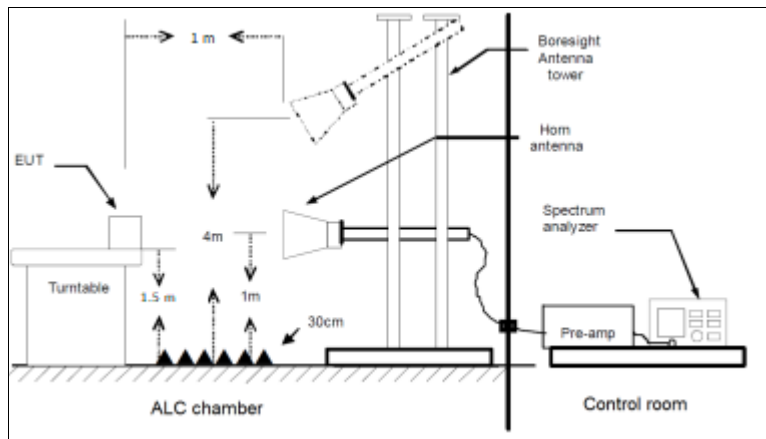
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

**TEST SETUP (CONT.)**

**Radiated measurements Setup  $f < 1$  GHz**



**Radiated measurements setup  $f > 1$  GHz**



<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#01 (a mode 20MHz)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. See worst operation a mode selected for all channels as a worst case.

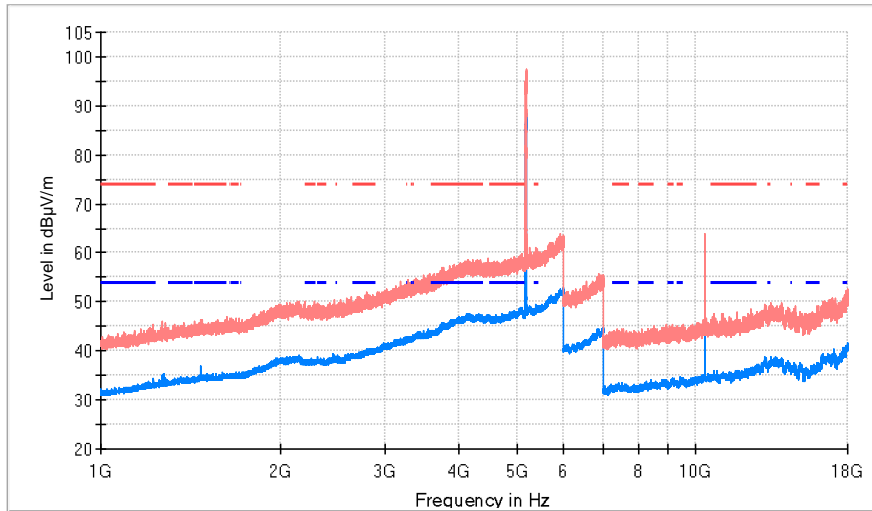
**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

TEST RESULTS (Cont.)																													
FREQUENCY RANGE	30MHz – 1 GHz																												
<b>Middle Channel</b>																													
RF_FCC_15.407_E Field_30MHz_1GHz																													
<p> <span style="color: red;">—</span> PK+_MAXH  <span style="color: blue;">—</span> PK+_CLRWR  <span style="color: red;">—</span> TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit  <span style="color: red;">▽</span> MaxPeak-PK+ (Single)  <span style="color: red;">×</span> QuasiPeak-QPK (Single)         </p>																													
<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>MaxPeak (dBµV/m)</th> <th>QuasiPeak (dBµV/m)</th> <th>Pol</th> </tr> </thead> <tbody> <tr> <td>38.051000</td> <td>24.0</td> <td>17.1</td> <td>V</td> </tr> <tr> <td>75.008000</td> <td>30.5</td> <td>25.3</td> <td>V</td> </tr> <tr> <td>125.011500</td> <td>32.0</td> <td>30.0</td> <td>V</td> </tr> <tr> <td>249.996000</td> <td>35.7</td> <td>32.4</td> <td>V</td> </tr> <tr> <td>400.103500</td> <td>35.5</td> <td>28.7</td> <td>V</td> </tr> <tr> <td>608.605000</td> <td>34.4</td> <td>23.9</td> <td>V</td> </tr> </tbody> </table>		Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	38.051000	24.0	17.1	V	75.008000	30.5	25.3	V	125.011500	32.0	30.0	V	249.996000	35.7	32.4	V	400.103500	35.5	28.7	V	608.605000	34.4	23.9	V
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol																										
38.051000	24.0	17.1	V																										
75.008000	30.5	25.3	V																										
125.011500	32.0	30.0	V																										
249.996000	35.7	32.4	V																										
400.103500	35.5	28.7	V																										
608.605000	34.4	23.9	V																										

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>

**Lowest Channel**

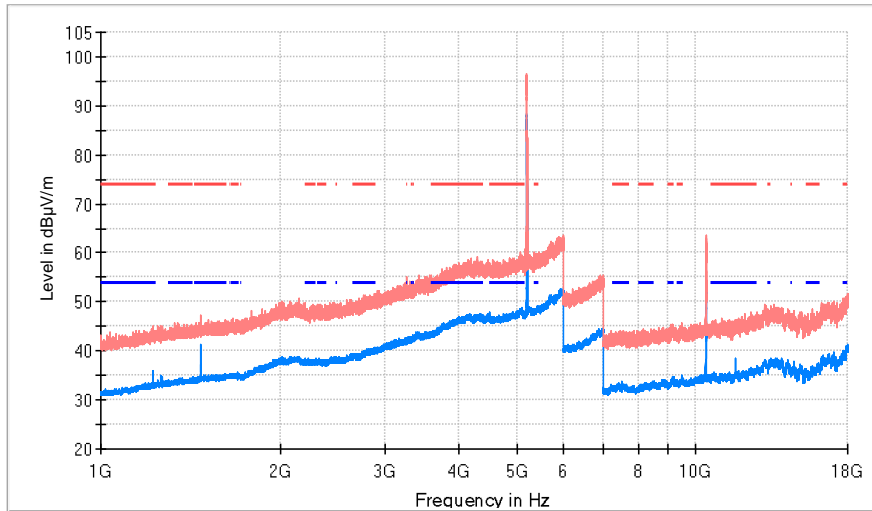


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5181.136364	97.4	88.0	H	Fundamental
10362.000000	64.0	53.6	H	

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>

**Middle Channel**

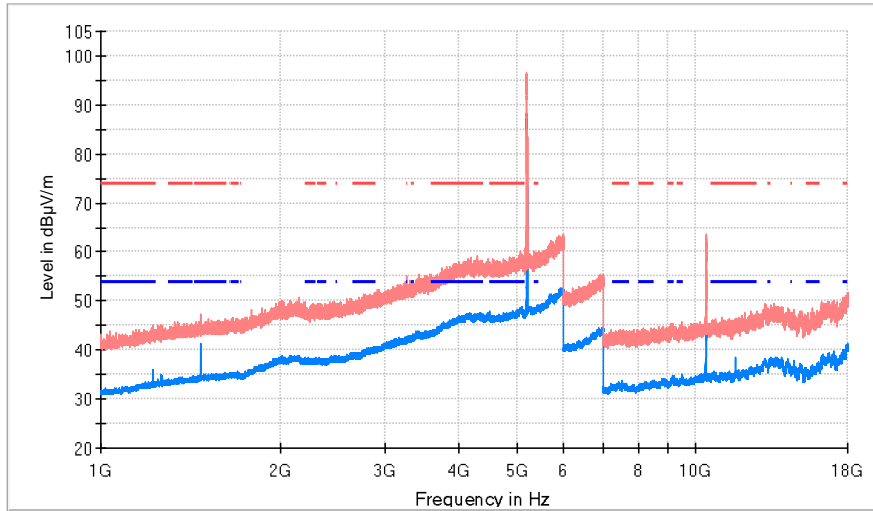


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1471.363636	47.3	41.4	H	
5201.136364	94.4	88.3	H	Fundamental
10401.818182	63.8	52.4	H	
11673.272727	45.7	38.4	V	

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>

**Highest Channel**

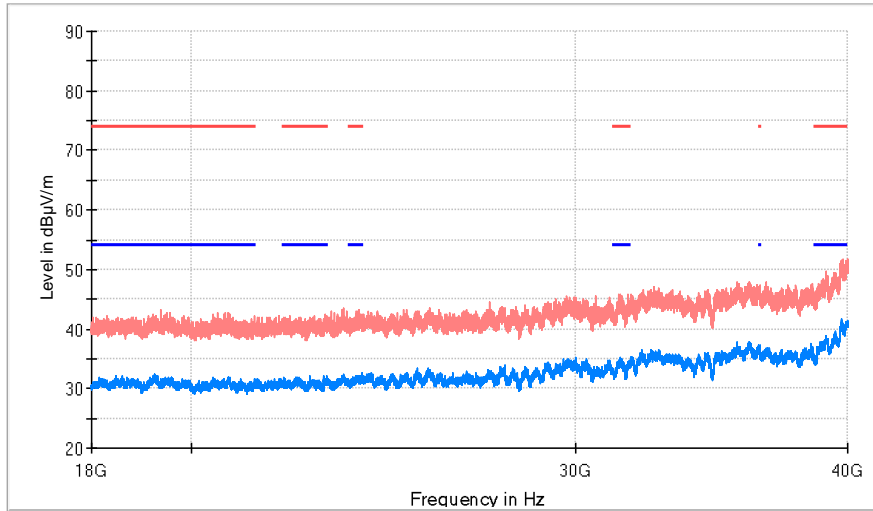


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1471.363636	47.3	41.4	H	
5201.136364	94.4	88.3	H	Fundamental
10401.818182	63.8	52.4	H	
11673.272727	45.7	38.4	V	

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>18 GHz – 40 GHz</b>

**Highest Channel**

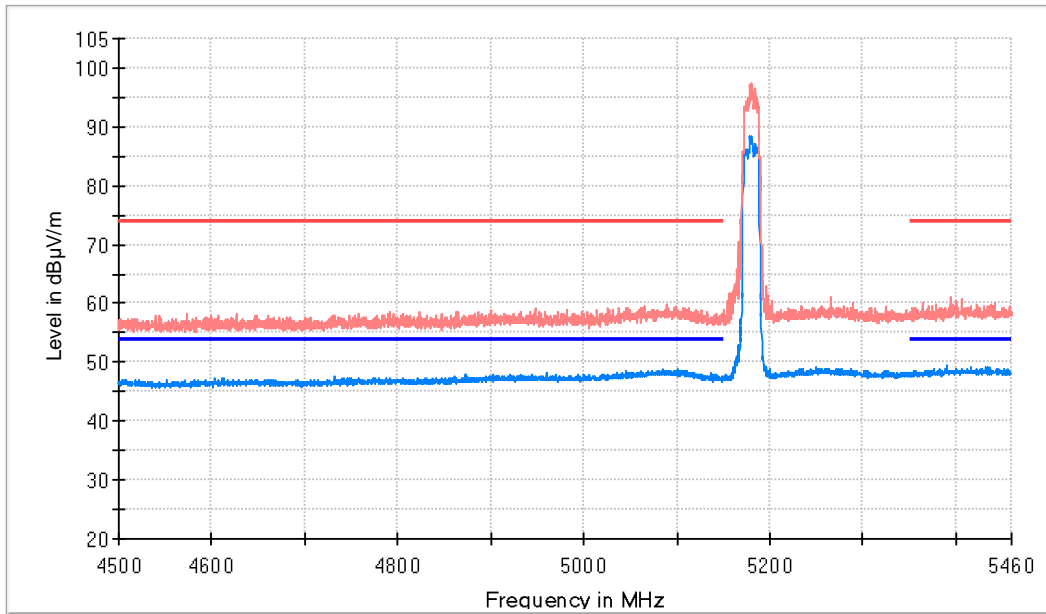


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

**RESTRICTED BANDS**

**4.5 GHz – 5.46 GHz**

**Low Channel**

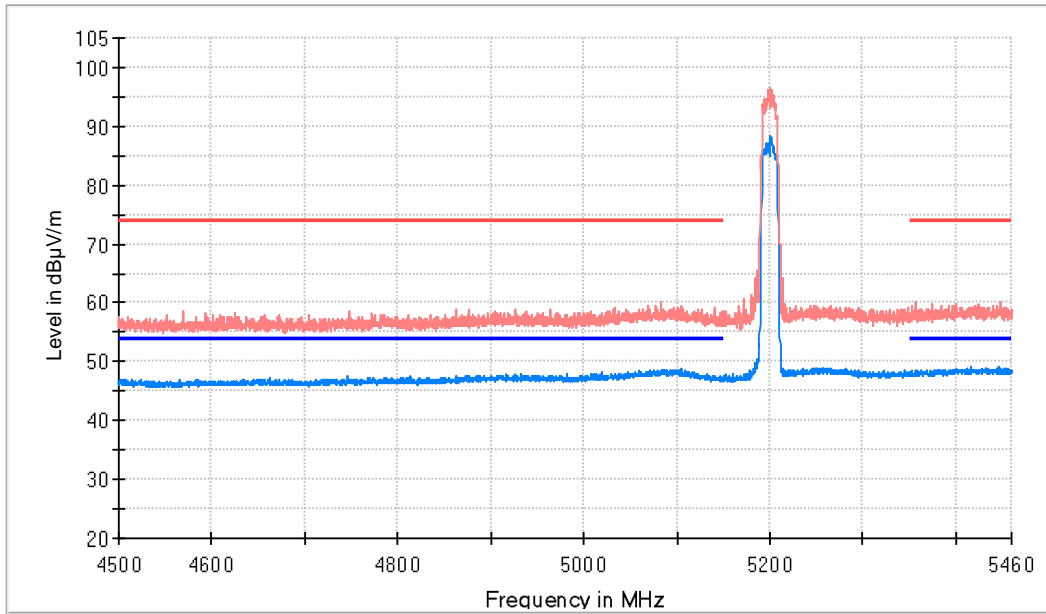


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit



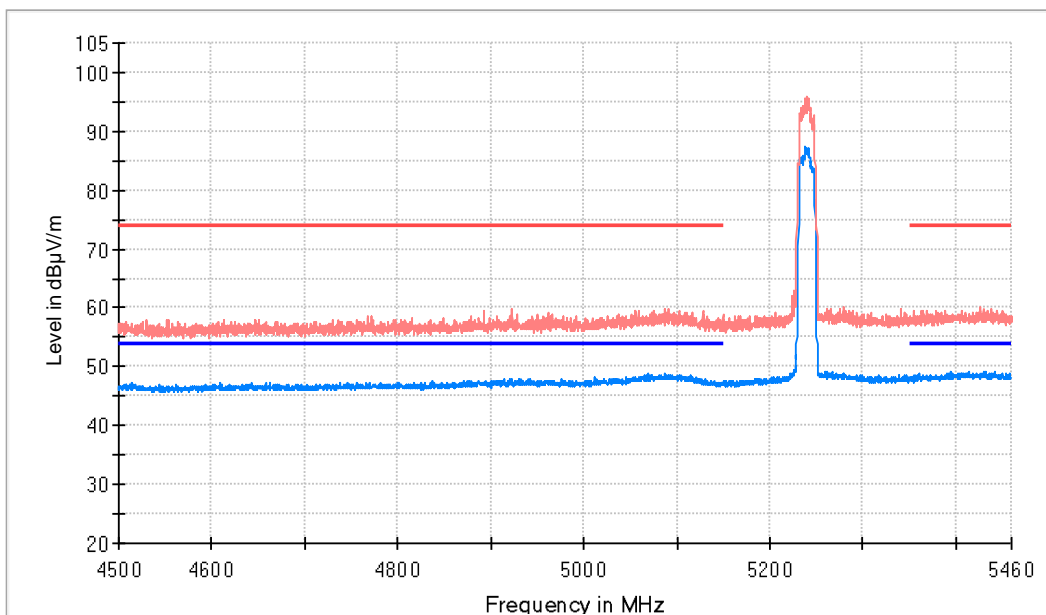
**TEST RESULTS (Cont.)**

**Mid Channel**



- 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

**High Channel**



- 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

<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#02 (n mode 40MHz)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

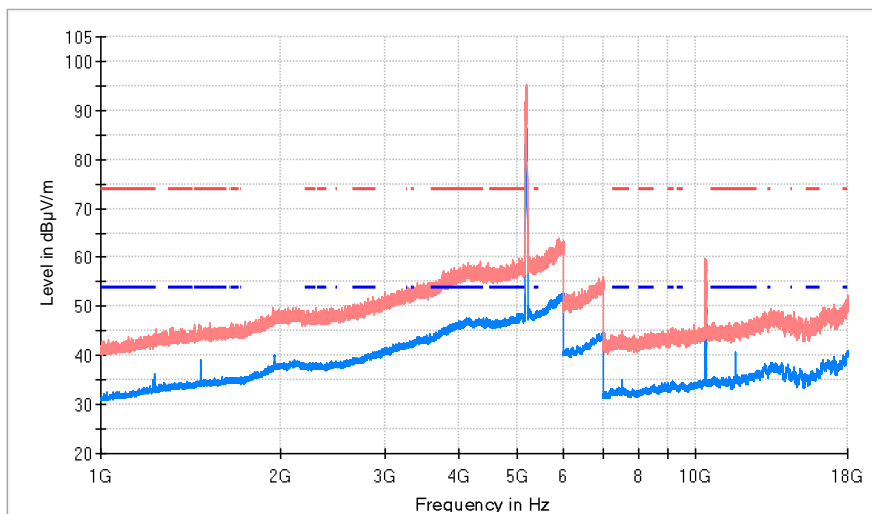
The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. See worst operation a mode selected for all channels as a worst case.

**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

**FREQUENCY RANGE 1 GHz – 18 GHz**

**Lowest Channel**

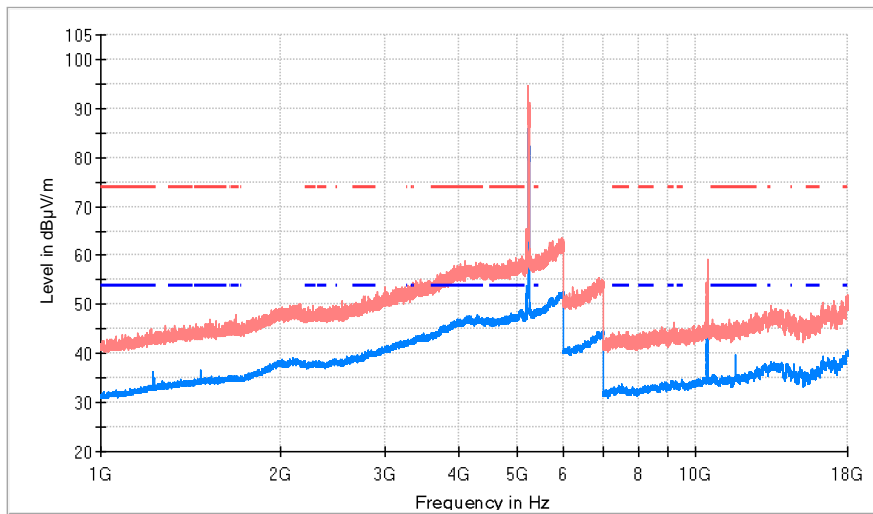


- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1472.045455	46.0	39.3	H	
5192.272727	92.5	86.4	H	Fundamental
10386.545455	59.7	50.5	H	
11673.818182	45.1	40.6	V	

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>

**Highest Channel**

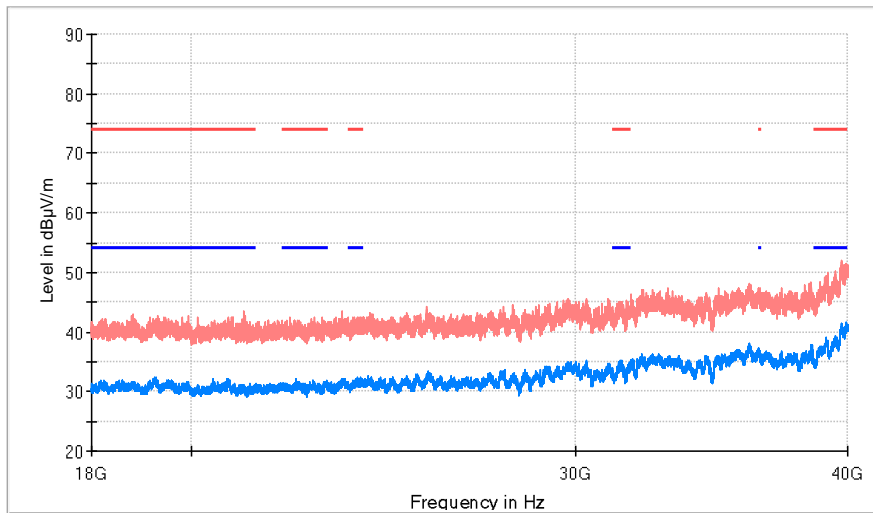


- AVG\_MAXH
- PK+\_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

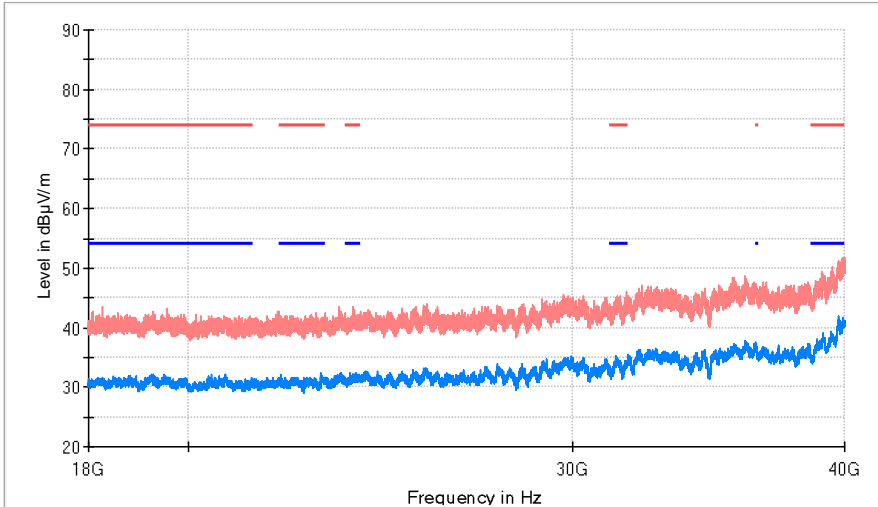
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1227.500000	43.2	36.2	V	
1472.500000	44.6	36.5	H	
5232.500000	93.1	85.7	H	Fundamental
10462.363636	58.6	49.1	H	
11673.818182	45.9	39.7	V	

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>18 GHz – 40 GHz</b>

**Lowest Channel**



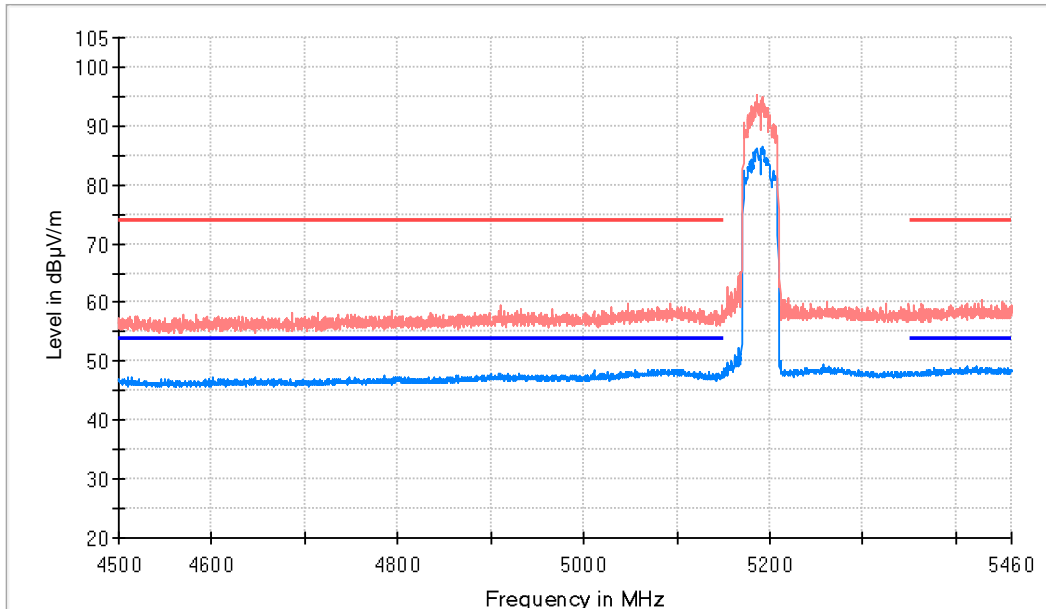
- AVG\_MAXH
- PK+ \_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)	
FREQUENCY RANGE	18 GHz – 40 GHz
<p><b>Highest Channel</b></p> <div data-bbox="354 566 1236 1070">  </div> <div data-bbox="354 1093 1149 1182"> <ul style="list-style-type: none"> <li><span style="color: blue;">—</span> AVG_MAXH</li> <li><span style="color: red;">—</span> PK+_MAXH</li> <li><span style="color: orange;">—</span> TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit</li> <li><span style="color: blue;">—</span> TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit</li> </ul> </div>	

**RESTRICTED BANDS**

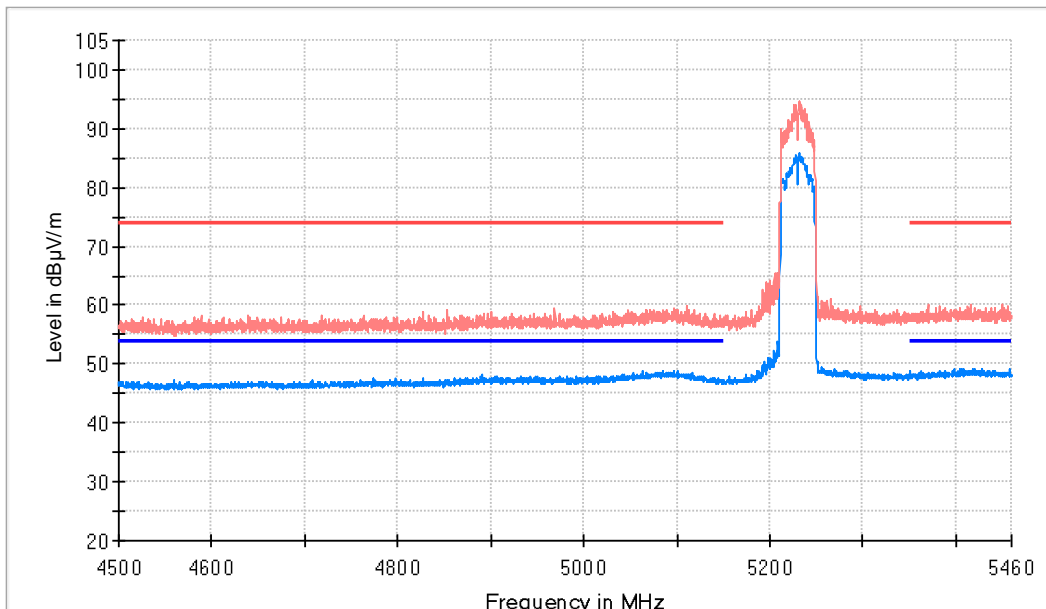
**4.5 GHz – 5.46 GHz**

**Low Channel**



- 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

**High Channel**



- 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

<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#03 (ac mode 80MHz)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

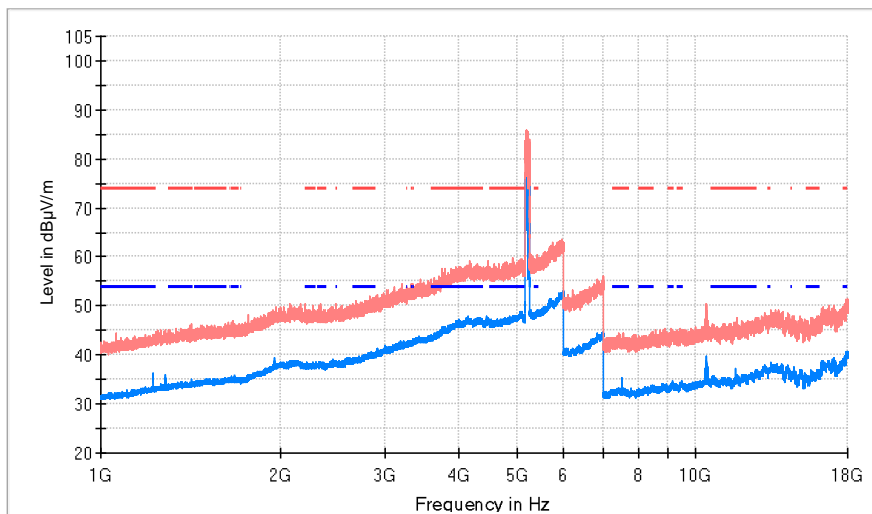
The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. See worst operation a mode selected for all channels as a worst case.

**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

**FREQUENCY RANGE 1 GHz – 18 GHz**

**Lowest Channel**



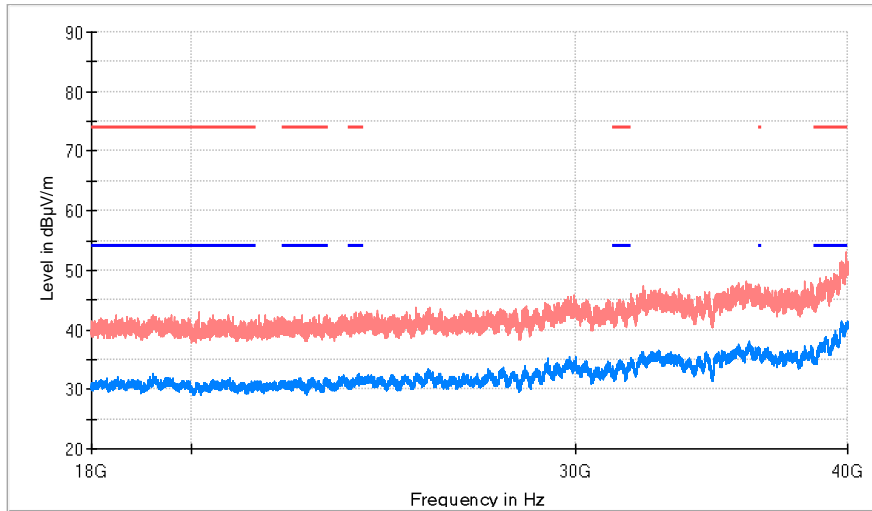
- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1225.681818	43.5	36.5	V	
5177.727273	83.5	77.0	H	
5209.090909	81.7	70.1	H	Fundamental
7500.000000	43.1	35.2	V	
10408.363636	47.2	39.6	H	

**TEST RESULTS (Cont.)**

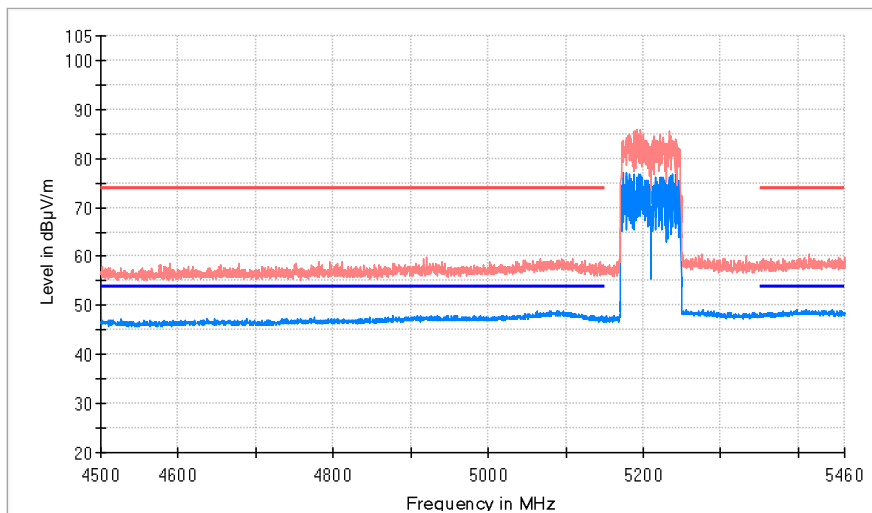
**FREQUENCY RANGE 18 GHz – 40 GHz**

**Lowest Channel**



- 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

**Restricted Bands 4.5 GHz – 5.46 GHz**



- 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



## Appendix C: Test results

### 5.725 GHz – 5.850 GHz Band

## Appendix C Content

DESCRIPTION OF TEST CONDITIONS .....	35
TEST C.1: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER) .....	36

## DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 <sup>(1)</sup> <b>(a mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest range: 5745 MHz Middle channel: 5785 MHz Highest range: 5825 MHz
TC#02 <sup>(1)</sup> <b>(n mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz
TC#03 <sup>(1)</sup> <b>(ac mode)</b>	<u>Power supply (V):</u> $V_{\text{nominal}} = 13.2 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz <u>Channel Bandwidth:</u> 80 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 5775

Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20, 802.11n40, 802.11ac80 a preliminary scan was performed to determine the worst case.

The data rates of 6 Mbps for 802.11a, MCS0 for 802.11n20/n40 and MCS 0 for 802.11ac20/ac40/ac80 were selected based on preliminary testing that identified those rates corresponding to the worst cases.

## TEST C.1: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.407 and RSS-247
	Test standard:	Part 15 Subpart C §15.407(b) (4)(6)(7) and RSS-247 6.2.4.2

### LIMITS

For transmitters operating in the 5.725-5.85 GHz band: all emissions outside of 5.725-5.85 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.23 dBμ V/m at 3m 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) / RSS-Gen):

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

### TEST SETUP

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 (Bilog antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 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.

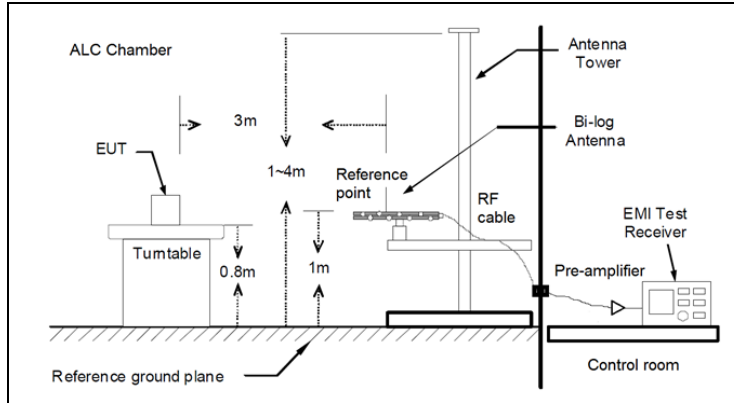
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

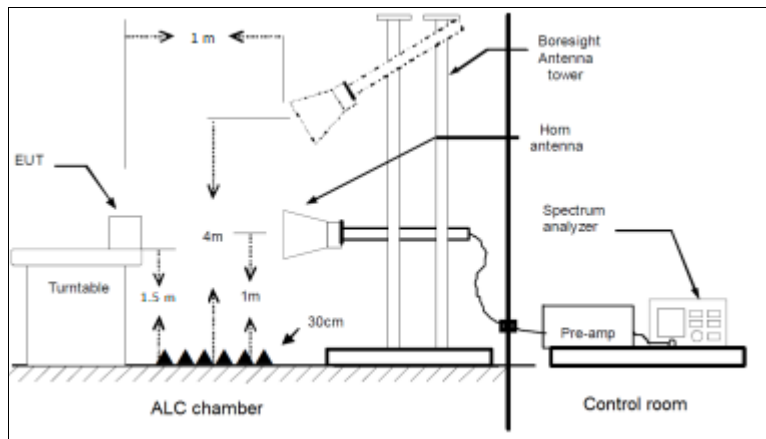
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

**TEST SETUP (CONT.)**

**Radiated measurements Setup  $f < 1$  GHz**



**Radiated measurements setup  $f > 1$  GHz**



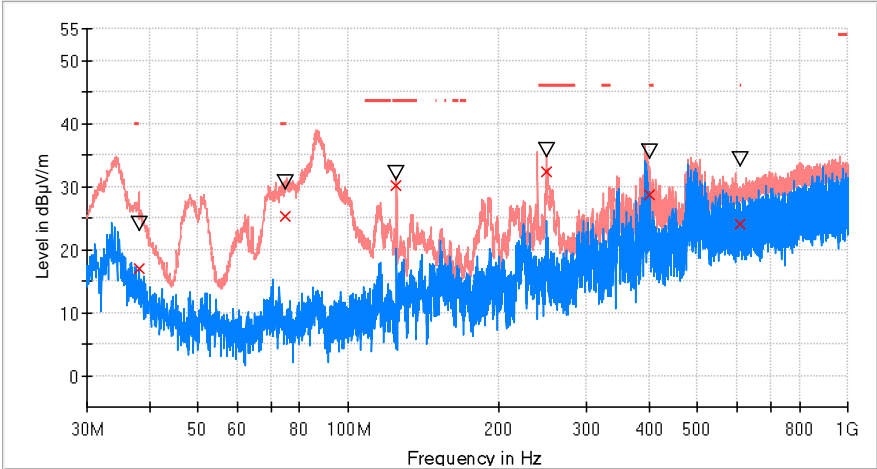
<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#01 (a mode 20MHz)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

The spurious emissions below 1 GHz do not depend on the operating channel or bandwidth selected in the EUT. See worst operation a mode selected for all channels as a worst case.

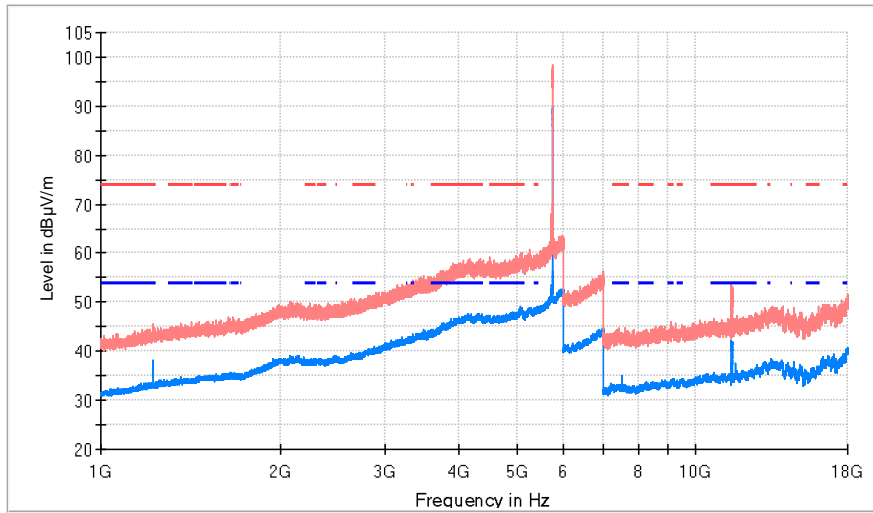
**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

TEST RESULTS (Cont.)																													
FREQUENCY RANGE	30MHz – 1 GHz																												
<p><b>Middle Channel</b></p> <p style="text-align: center;">RF_FCC_15.407_E Field_30MHz_1GHz</p>  <p> <span style="color: red;">—</span> PK+_MAXH  <span style="color: blue;">—</span> PK+_CLRWR  <span style="color: red;">- - -</span> TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit  <span style="color: black;">▽</span> MaxPeak-PK+ (Single)  <span style="color: red;">×</span> QuasiPeak-QPK (Single)         </p> <table border="1" data-bbox="512 1229 1080 1467"> <thead> <tr> <th>Frequency (MHz)</th> <th>MaxPeak (dBµV/m)</th> <th>QuasiPeak (dBµV/m)</th> <th>Pol</th> </tr> </thead> <tbody> <tr> <td>38.051000</td> <td>24.0</td> <td>17.1</td> <td>V</td> </tr> <tr> <td>75.008000</td> <td>30.5</td> <td>25.3</td> <td>V</td> </tr> <tr> <td>125.011500</td> <td>32.0</td> <td>30.0</td> <td>V</td> </tr> <tr> <td>249.996000</td> <td>35.7</td> <td>32.4</td> <td>V</td> </tr> <tr> <td>400.103500</td> <td>35.5</td> <td>28.7</td> <td>V</td> </tr> <tr> <td>608.605000</td> <td>34.4</td> <td>23.9</td> <td>V</td> </tr> </tbody> </table>		Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	38.051000	24.0	17.1	V	75.008000	30.5	25.3	V	125.011500	32.0	30.0	V	249.996000	35.7	32.4	V	400.103500	35.5	28.7	V	608.605000	34.4	23.9	V
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol																										
38.051000	24.0	17.1	V																										
75.008000	30.5	25.3	V																										
125.011500	32.0	30.0	V																										
249.996000	35.7	32.4	V																										
400.103500	35.5	28.7	V																										
608.605000	34.4	23.9	V																										

**TEST RESULTS (Cont.)** **FREQUENCY RANGE 1 – 18 GHz**

**Lowest Channel**



- 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

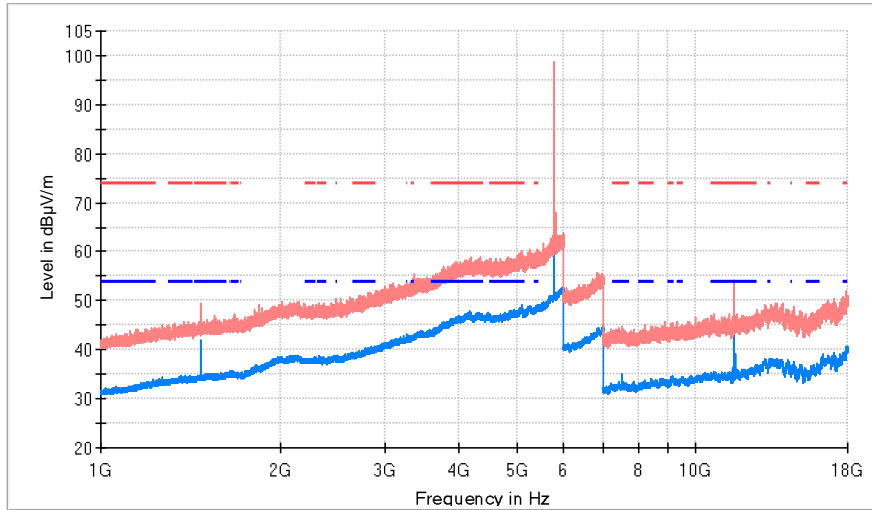
**Maximizations**

Frequency (MHz)	PK+ MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1225.681818	44.9	38.3	H	
5744.090909	96.9	89.8	H	Fundamental
7499.454546	42.7	35.2	V	
11495.454546	53.2	40.1	H	

**TEST RESULTS (Cont.)**

**FREQUENCY RANGE 1 – 18 GHz**

**Middle Channel**



- 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

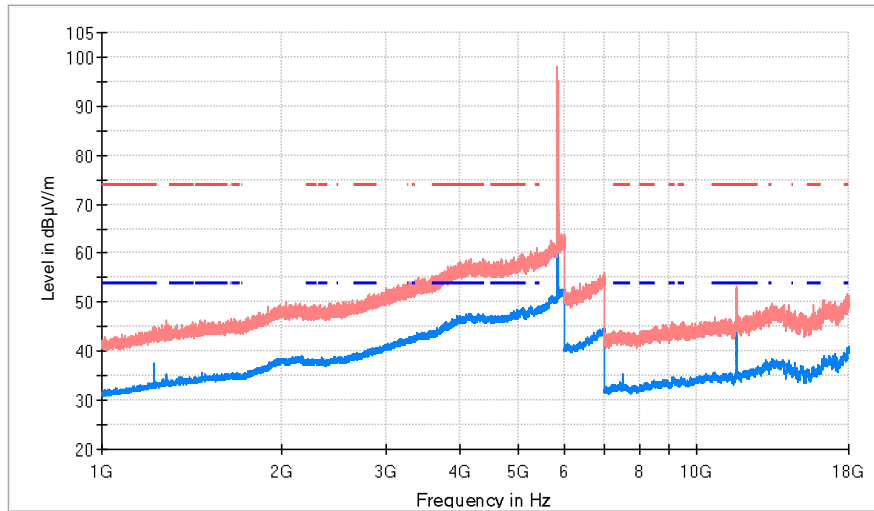
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1472.045455	49.5	42.1	V	
5784.090909	98.0	90.4	V	Fundamental
11570.181818	52.5	43.7	V	



**TEST RESULTS (Cont.)**

**FREQUENCY RANGE 1 – 18 GHz**

**Highest Channel**



- 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

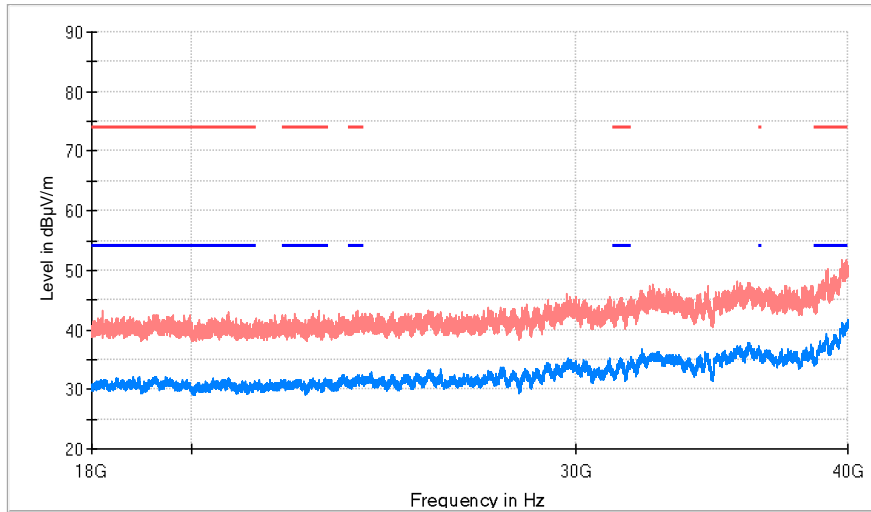
**Maximizations**

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1227.045455	43.7	37.5	H	
5826.363636	97.9	89.8	V	Fundamental
7500.000000	42.6	35.3	V	
11653.090909	53.3	41.9	H	

**TEST RESULTS (Cont.)**

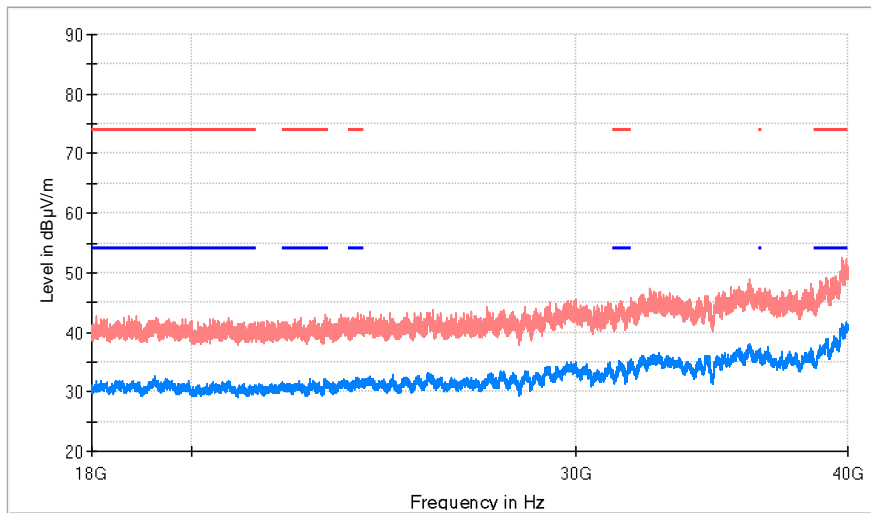
**FREQUENCY RANGE 18 – 40 GHz**

**Lowest Channel**



- 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

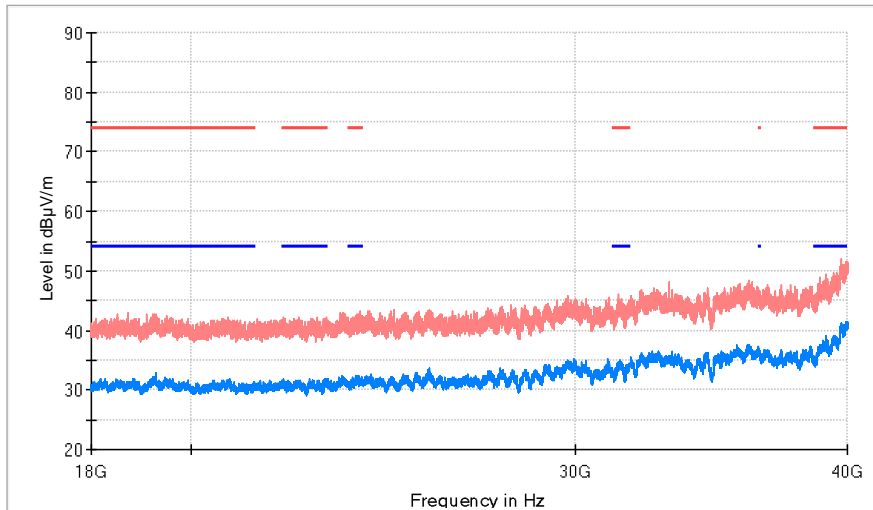
**Middle Channel**



- 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

<b>TEST RESULTS (Cont.)</b>	<b>FREQUENCY RANGE 18 – 40 GHz</b>
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**Highest Channel**



- 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

<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#02 (n40 mode)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

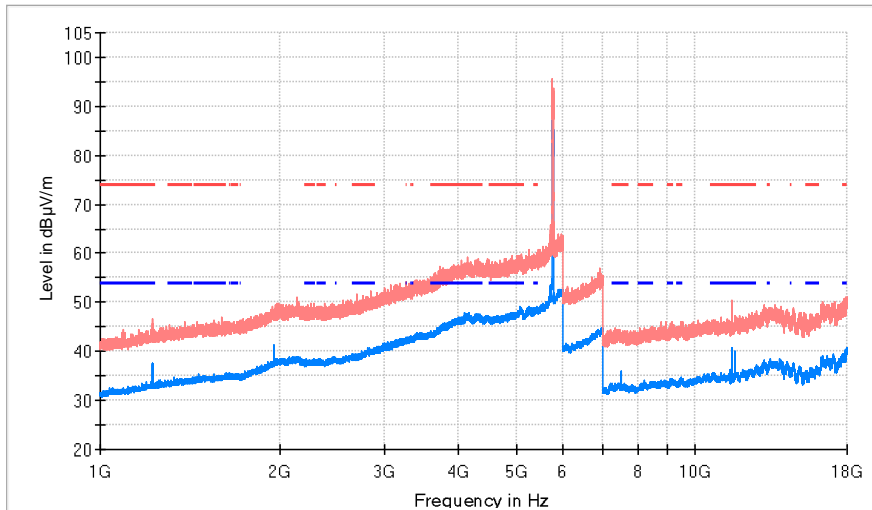
The spurious emissions below 1 GHz do not depend on the operating channel or bandwidth selected in the EUT.

**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>

**Lowest Channel**



- 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

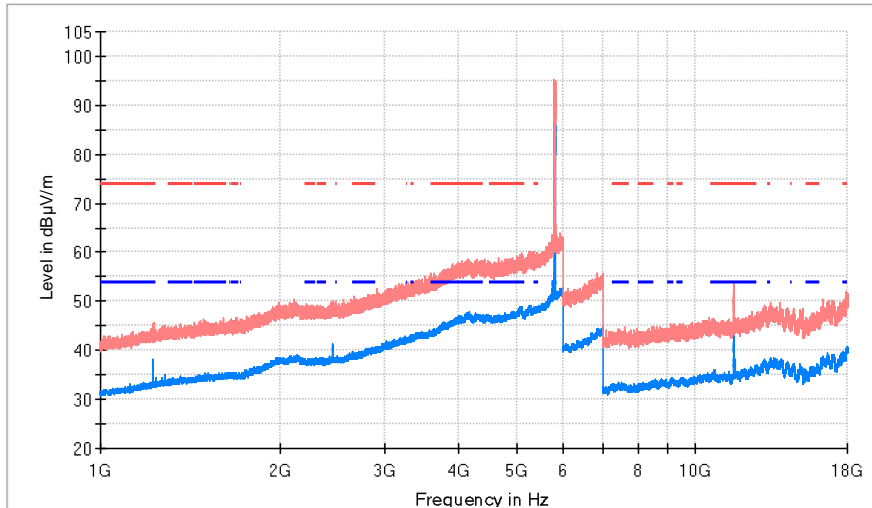
**Maximizations**

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1226.818182	45.7	37.6	V	
1963.181818	48.6	41.5	V	
5757.727273	93.3	87.3	V	Fundamental
7500.000000	42.7	36.1	V	
11509.090909	48.4	40.8	H	

TEST RESULTS (Cont.)

1 GHz – 18 GHz

Highest Channel



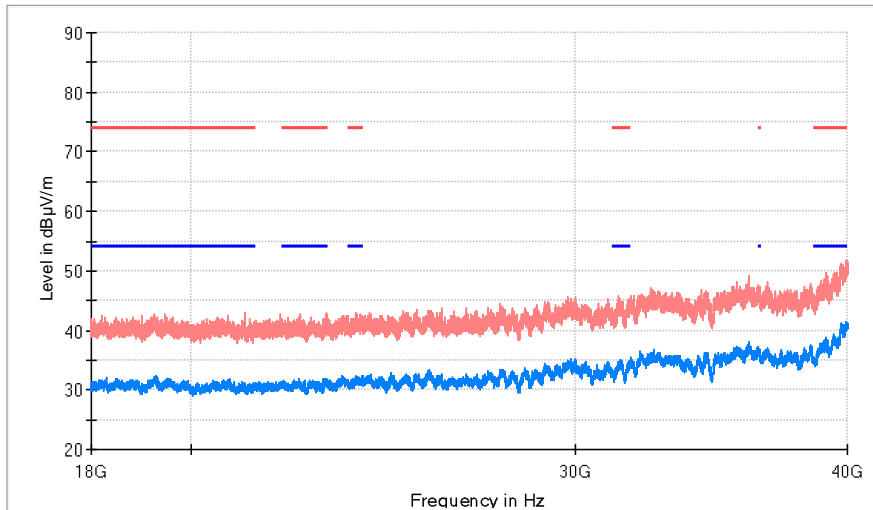
- AVG\_MAXH
- PK+\_MAXH
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1226.818182	45.0	38.2	H	
2453.409091	47.9	41.4	V	
5796.818182	94.3	86.4	V	Fundamental
11593.636364	53.7	43.3	H	

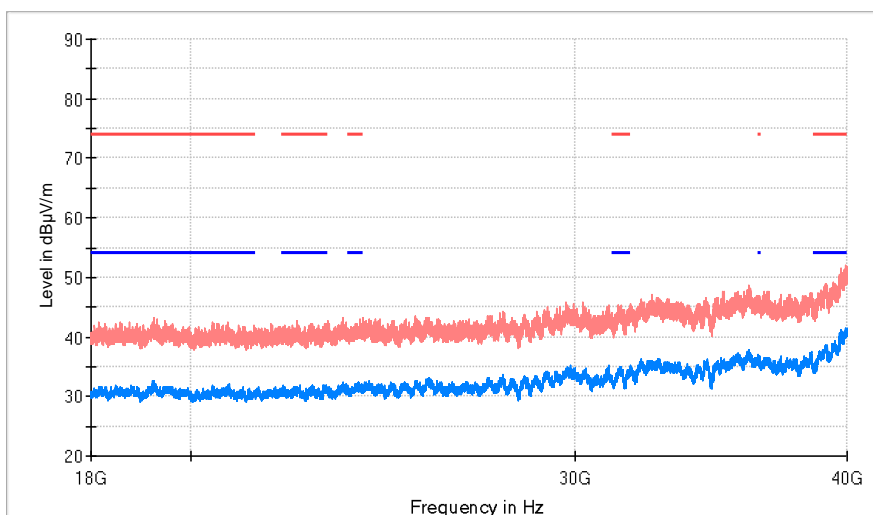
<b>TEST RESULTS (Cont.)</b>	
<b>FREQUENCY RANGE</b>	<b>18 GHz – 40 GHz</b>

**Lowest Channel**



- 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

**Highest Channel**



- 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

<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#03 (ac80 mode)
<b>TEST RESULTS:</b>	PASS

**Frequency range 30 MHz – 1000 MHz**

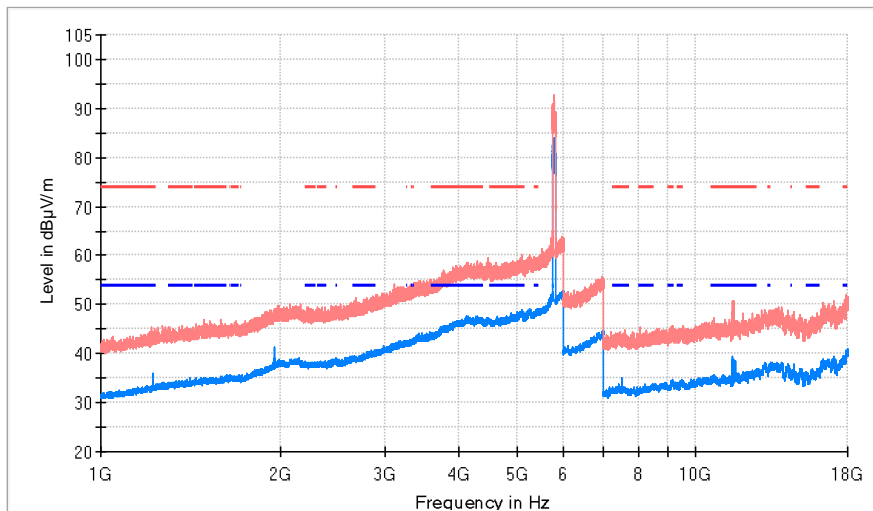
The spurious emissions below 1 GHz do not depend on the operating channel or bandwidth selected in the EUT.

**Frequency range 1 GHz – 40 GHz**

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

<b>FREQUENCY RANGE</b>	<b>1 GHz – 18 GHz</b>
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**Lowest Channel**



- 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

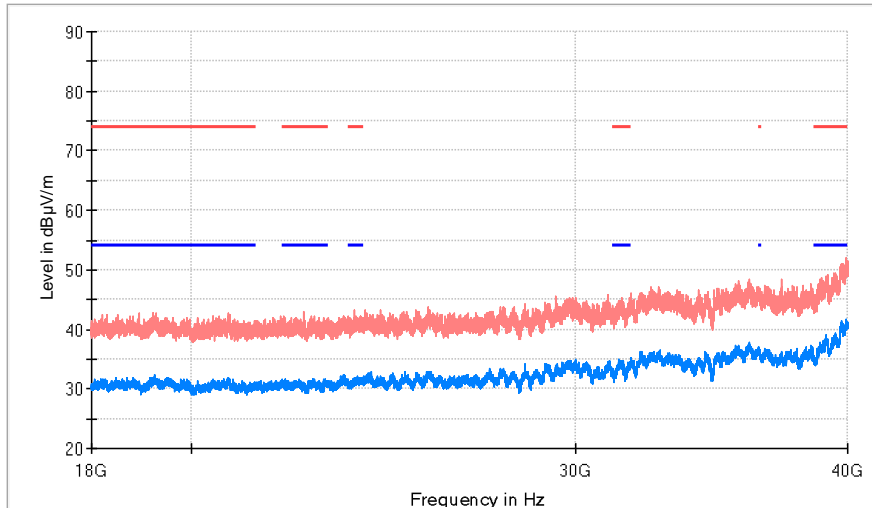
**Maximizations**

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
1225.909091	43.3	36.1	H	
1962.045455	49.0	41.4	H	
5778.181818	91.1	83.9	H	Fundamental
11532.545455	50.6	39.3	V	

FREQUENCY RANGE

18 GHz – 40 GHz

Lowest Channel



- 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