

Report No.: FR411403-25AN

# **FCC Test Report**

**Equipment** : 11ac Dual Band Concurrent Wall-mount AP

: EDIMAX **Brand Name** 

Model No. : EW-7679WAC / GAP-679WAC / WAP1750 /

WAP1750H / WAP1750S / WAP1750L / WAP1750i

**FCC ID** : NDD9576791401

**Standard** : 47 CFR FCC Part 15.407

: 5150 MHz - 5250 MHz **Operating Band** 

5725 MHz - 5850 MHz

FCC Classification: UNII

**Applicant** : EDIMAX TECHNOLOGY CO., LTD.

Manufacturer No.3, Wu-Chuan 3rd Road, Wu-Ku Industrial Park,

New Taipei City, Taiwan

The product sample received on Apr. 10, 2014 and completely tested on Mar. 15, 2016. The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in

Reviewed by:

Kevin Liang / Assistant Manager

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**APPENDIX A. TEST PHOTOS** 

APPENDIX B. PHOTOGRAPHS OF EUT

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# **Summary of Test Result**

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Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Result		
1.1.2	15.203	Antenna Requirement	Complied		
3.1	15.207	AC Power-line Conducted Emissions	Complied		
3.2	15.407(a)	Emission Bandwidth	Complied		
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Complied		
3.4	15.407(a)	Peak Power Spectral Density	Complied		
3.5	15.407(b)	Transmitter Bandedge Emissions	Complied		
3.6	15.407(b)	Transmitter Unwanted Emissions	Complied		
3.7	15.407(g)	Frequency Stability	Complied		

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# **Revision History**

Report No. : FR411403-25AN

Report No.	Version	Description	Issued Date
FR411403-10AN	Rev. 01	Initial issue of report	Jan. 27, 2015
FR411403-18AN	Rev. 01	Update information as below: 1. Add level VI adapter. 2. Update AC conduction and radiated emissions (Below 1GHz) tested.	Dec. 04, 2015
FR411403-25AN	Rev. 01	<ol> <li>Remove Level V Adapter (DA-48T12) and add Level VI Adapter (WA-30J12R)</li> <li>UNII-band3, update standard version to 15.407 and update UNII-Band 1 limit.</li> </ol>	Apr. 21, 2016

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# 1 General Description

#### 1.1 Information

#### 1.1.1 Product Details

The equipment is 11ac Dual Band Concurrent Wall-mount AP. There are two sample of EUT. The only difference is the appearance. For more detailed features description, please refer to the specifications or user's manual.

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#### 1.1.2 RF General Information

	RF General Information (5150-5250MHz band)						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	Co-location	
5150-5250	а	5180-5240	36-48 [4]	1	25.37	Yes	
5150-5250	n (HT20)	5180-5240	36-48 [4]	3	27.17	Yes	
5150-5250	n (HT40)	5190-5230	38-46 [2]	3	27.41	Yes	
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	3	27.06	Yes	
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	3	28.46	Yes	
5150-5250	ac (VHT80)	5210	48 [1]	3	18.28	Yes	

Note 1: RF output power specifies that Maximum Conducted Output Power.

Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

RF General Information (5725-5850MHz band)						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	Co-location
5725-5850	а	5745-5825	149-165 [5]	1	22.96	Yes
5725-5850	n (HT20)	5745-5825	149-165 [5]	3	21.28	Yes
5725-5850	n (HT40)	5755-5795	151-159 [2]	3	22.51	Yes
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	3	21.38	Yes
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	3	22.43	Yes
5725-5850	ac (VHT80)	5775	155 [1]	3	12.07	Yes

Note 1: RF output power specifies that Maximum Conducted Output Power.

Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

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#### 1.1.3 Antenna Information

	Antenna Category
	Integral antenna (antenna permanently attached)
	☐ Temporary RF connector provided
	□ No temporary RF connector provided     Transmit chains bypass antenna and soldered temporary RF connector provided for connected     measurement. In case of conducted measurements the transmitter shall be connected to the     measuring equipment via a suitable attenuator and correct for all losses in the RF path.
$\boxtimes$	External antenna (dedicated antennas)
	Single power level with corresponding antenna(s).
	Multiple power level and corresponding antenna(s).

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	Antenna General Information						
Port No.	Ant. Cat.	Ant. Type	Model Name	Gain <sub>(dBi)</sub>			
1				2.58			
2	External	Dipole	98610PRSX002	2.58			
3				2.58			

Note: 1: The EUT supported CDD function.

Note: 2: 802.11a only includes 1TX and Port1 for emission.

Note: 3: 802.11n/ac used three antennas are for signal transmitting and receiving. (3T3R Spatial Multiplexing MIMO configuration)

#### Type of EUT 1.1.4

	Identify EUT						
EU	Γ Serial Number	N/A					
Pre	sentation of Equipment	☐ Production ; ☐ Pre-Production ; ☐ Prototype					
		Type of EUT					
$\boxtimes$	Stand-alone						
	Combined (EUT where the radio part is fully integrated within another device)						
	Combined Equipment - Brand Name / Model No.:						
	Plug-in radio (EUT intended for a variety of host systems)						
	Host System - Brand Name / Model No.:						
	Other:						

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# 1.1.5 Test Signal Duty Cycle

	Operated Mode for Worst Duty Cycle (5150~5250 MHz)					
	Operated normally mode for worst duty cycle					
$\boxtimes$	Operated test mode for worst duty cycle					
	Test Signal Duty Cycle (x)  Power Duty Factor [dB] – (10 log 1/x)					
$\boxtimes$	100% - IEEE 802.11a	0.00				
$\boxtimes$	100% - IEEE 802.11n (HT20)	0.00				
$\boxtimes$	100% - IEEE 802.11n (HT40)	0.00				
$\boxtimes$	100% - IEEE 802.11ac (VHT20)	0.00				
$\boxtimes$	100% - IEEE 802.11ac (VHT40)	0.00				
$\boxtimes$	100% - IEEE 802.11ac (VHT80)	0.00				

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	Operated Mode for Worst Duty Cycle (5725~5850 MHz)					
	Operated normally mode for worst duty cycle					
$\boxtimes$	Operated test mode for worst duty cycle					
	Test Signal Duty Cycle (x)  Power Duty Factor [dB] – (10 log 1/x)					
$\boxtimes$	98.44% - IEEE 802.11a	0.07				
	95.52% - IEEE 802.11n (HT20)	0.20				
	91.68% - IEEE 802.11n (HT40)	0.38				
$\boxtimes$	95.45% - IEEE 802.11ac (VHT20)	0.20				
$\boxtimes$	94.46% - IEEE 802.11ac (VHT40)	0.25				
$\boxtimes$	90.50% - IEEE 802.11ac (VHT80)	0.43				

# 1.1.6 EUT Operational Condition

Supply Voltage		□ DC	System
Type of DC Source	☐ Internal DC supply	External DC from PoE	

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# 1.2 Accessories and Support Equipment

Accessories						
	Brand Name	APD	Model Name	WA-30B12		
AC Adoptor 1	Power Rating	I/P: 100-240Vac 0.8A	; O/P: 12V===2.5A	•		
AC Adapter 1	Power cord	1.8m, non-shielded ca	ble, w/o ferrite core			
	Remark	Level V				
	Brand Name	APD	Model Name	DA-48T12		
	Power Rating	I/P: 100-240Vac 1.4A	; O/P: 12V===4A	•		
AC Adapter 3	Power Cord	AC: 1.4m, non-shielded cable, w/o ferrite core DC: 1.5m, non-shielded cable, w/o ferrite core				
	Remark	Level VI				
	Brand Name	APD	Model Name	WA-30J12R		
AC Adomtor 2	Power Rating	I/P: 100-240Vac 0.9A; O/P: 12V===2.5A				
AC Adapter 3	Power Cord	1.8 meter, non-shielde	ed cable, w/o ferrite cor	е		
	Remark	Level VI				

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Reminder: Regarding to more detail and other information, please refer to user manual.

### (For 5150~5250 MHz)

	Support Equipment - RF Conducted						
No.	No. Equipment Brand Name Model Name FCC ID						
1	Notebook	DELL	E5520	DoC			
2	AC Adapter for Notebook	HA65NM130	DoC				

Support Equipment - AC Conduction and Radiated Emission						
No. Equipment Brand Name Model Name FCC ID						
1	PoE	Acelink	PI-1000PT	DoC		
2	AC Adapter for PoE	UNIFIVE	UIB336-4875	DoC		

The PoE provided by the customer.

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(For 5725~5850 MHz)

	Support Equipment - RF Conducted						
No.	No. Equipment Brand Name Model Name FCC ID						
1	Notebook	DELL	E5540	DoC			
2	AC Adapter for Notebook	DELL	HA65NM130	DoC			

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	AC Conduction and Radiated Emission						
No.	Equipment	Brand Name	Model Name	FCC ID			
1	PoE	Acelink	PI-1000PT	DoC			
2	AC Adapter for PoE	UNIFIVE	UIB336-4875	DoC			

The PoE provided by the customer.

# 1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2009(UNII band1)
- ANSI C63.10-2013 (UNII band3)
- FCC KDB 789033 D02 v01r02
- FCC KDB 644545 D03 v01
- ◆ FCC-14-30A1-UNII
- FCC KDB 662911 D01 v02r01

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# 1.4 Testing Location Information

	Testing Location									
	HWA YA	ADD	:		No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Fao Yuan City, Taiwan, R.O.C.					
		TEL	:	886-3-327-3456 FAX	: 886-3-327-0973					
				Test site registered nun	nber [636805] with FCC.					
	Test Cond	ition		Test Site No.	Test Engineer	Test Environment				
	AC Condu (Mode 1~Mo			CO04-HY	Zeus	25℃ / 43%				
	AC Conduction (Mode 4)			CO04-HY	Anthony	21°C / 61%				
				(For 5150~	5250 MHz)					
	RF Condu	cted		TH06-HY	Wei	24.2°C / 63%				
	Radiated Emission (Below 1GHz) (Mode 1~Mode 3)			03CH03-HY	Garnett	25.5°C / 53%				
	Radiated Emission (Below 1GHz) (Mode 4)			03CH03-HY	Daniel	23.5°C / 62%				
	Radiated Emission (Above 1GHz)		0.3()		Garnett	25.5°C / 53%				
				(For 5725~	5850 MHz)					
	RF Conducted		TH06-HY	Ryan	26°C / 65%					
Radiated Emission				03CH03-HY	Jeff	22.2°C / 57%				

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1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

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!	Measurement Uncertainty	
Test Item		Uncertainty
AC power-line conducted emissions		±2.3 dB
Emission bandwidth, 26dB bandwidth		±0.5%
RF output power, conducted		±0.1 dB
Power density, conducted		±0.5 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB
	0.15 – 30 MHz	±0.4 dB
	30 – 1000 MHz	±0.6 dB
	1 – 18 GHz	±0.5 dB
	18 – 40 GHz	±0.5 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.5 dB
	0.15 – 30 MHz	±2.3 dB
	30 – 1000 MHz	±2.6 dB
	1 – 18 GHz	±3.6 dB
	18 – 40 GHz	±3.8 dB
	40 – 200 GHz	N/A
Temperature		±0.8 ℃
Humidity		±5 %
DC and low frequency voltages		±0.9%
Time		±1.4 %
Duty Cycle		±0.5 %

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#### **Test Configuration of EUT** 2

#### **The Worst Case Modulation Configuration** 2.1

Worst Modulation Used for Conformance Testing						
Modulation Mode Transmit Chains (N <sub>TX</sub> ) Data Rate / MCS Worst Data Rat						
11a	1	6-54Mbps	6 Mbps			
HT20	3	MCS 0-23	MCS 0			
HT40	3	MCS 0-23	MCS 0			
VHT20	3	MCS 0-8	MCS 0			
VHT40	3	MCS 0-9	MCS 0			
VHT80	3	MCS 0-9	MCS 0			

#### 2.2 **The Worst Case Power Setting Parameter**

The W	The Worst Case Power Setting Parameter (5150-5250MHz band)						
Test Software Version				DC	S		
				Test Fred	quency (MH	z)	
<b>Modulation Mode</b>	N <sub>TX</sub>	]	NCB: 20MH	Z	NCB:	40MHz	NCB: 80MHz
		5180	5200	5240	5190	5230	5210
11a	1	20	24	24	-	-	-
HT20	3	16	20.5	20.5	-	-	-
HT40	3	-	-	-	15	22	-
VHT20	3	19	20.5	20.5	-	-	-
VHT40	3	-	-	-	14.5	23	-
VHT80	3	-	-	-	-	-	13.5

The Worst Case Power Setting Parameter (5725-5850MHz band)							
Test Software Version				art2_v9.57	5.10 CS1		
				Test Fred	quency (MH	z)	
Modulation Mode	N <sub>TX</sub>		NCB: 20Mi	Ηz	NCB:	40MHz	NCB: 80MHz
		5745	5785	5825	5755	5795	5775
11a	1	18	23	20	-	-	-
HT20	3	16	16.5	15.5	-	-	-
HT40	3	-	-	-	13	18.5	-
VHT20	3	16	16.5	15.5	-	-	-
VHT40	3	-	-	-	13	18.5	-
VHT80	3	-	-	-	-	-	8.5

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# 2.3 The Worst Case Measurement Configuration

TI	The Worst Case Mode for Following Conformance Tests				
Tests Item	AC power-line conducted emissions				
Condition AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz					
Operating Mode Operating Mode Description					
1 EUT with Adapter 1					
2	EUT with Adapter 2				
3	3 EUT with PoE				
4 EUT with Adapter 3					
For operating mode 3 is the	ne worst case and it was record in this test report.				

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The Worst Case Mode for Following Conformance Tests				
Tests Item  RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion, Transmitter Conducted Unwanted Emissions Transmitter Conducted Bandedge Emissions				
Test Condition Conducted measurement at transmit chains				
Modulation Mode 11a, HT20, HT40, VHT20, VHT40, VHT80				

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Th	The Worst Case Mode for Following Conformance Tests					
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions					
Test Condition	Radiated measurement If EUT consist of multiple antenna asser regardless of spatial multiplexing MIMO be performed with highest antenna gain	configuration), the radiated test should				
	☐ EUT will be placed in fixed position.					
User Position	EUT will be placed in mobile positionshall be performed three orthogonal	n and operating multiple positions. EUT l planes.				
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two orthogonal planes.					
	1. EUT with Adapter 1					
	2. EUT with Adapter 2					
Operating Mode < 1GHz	3. EUT with PoE					
	4. EUT with Adapter 3					
	For operating mode 4 is the worst case and it was record in this test report.					
Operating Mode > 1GHz	2. EUT with Adapter 2					
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT8	30				
	X Plane	Z Plane				
Orthogonal Planes of EUT						
Worst Planes of EUT		V				
Worst Planes of Antenna		V				

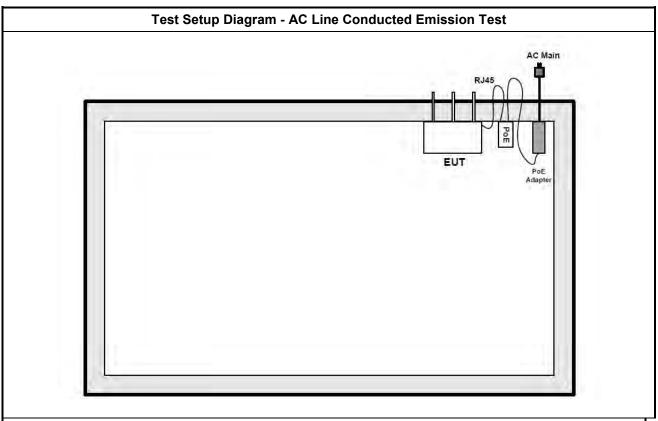
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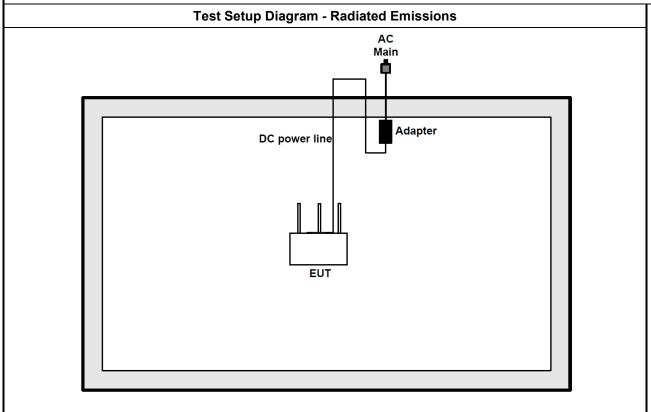
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#### 2.4 **Test Setup Diagram**





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3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

#### 3.1.1 AC Power-line Conducted Emissions Limit

AC Pow	er-line Conducted Emissions L	imit
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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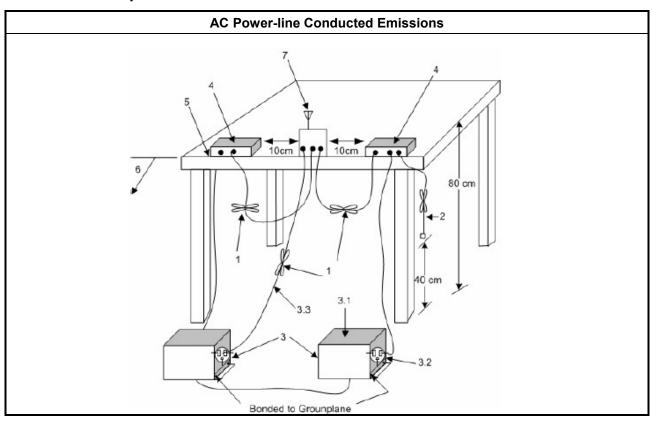
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.1.3 Test Procedures

Test Method	
Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.	

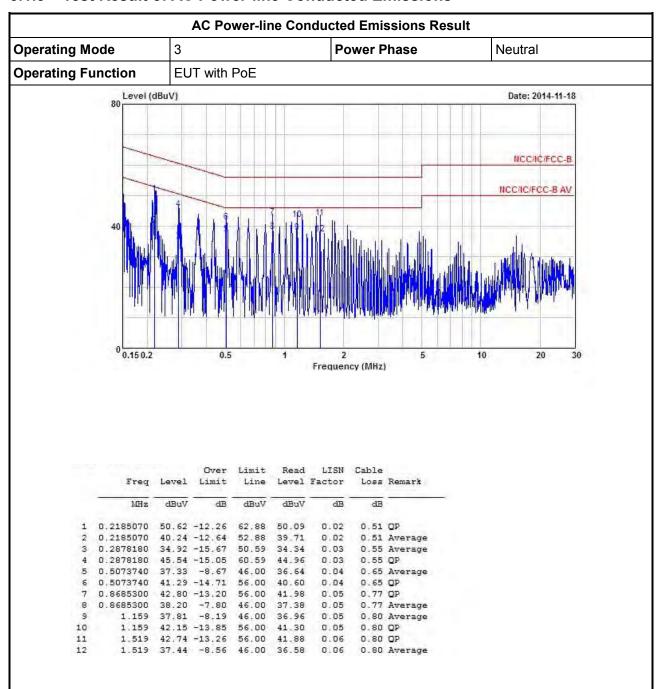
### 3.1.4 Test Setup



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3.1.5 Test Result of AC Power-line Conducted Emissions



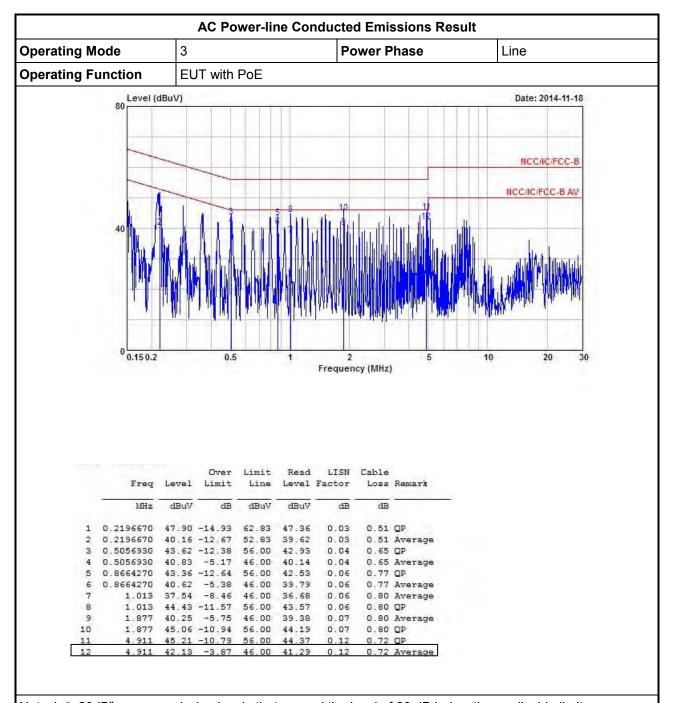
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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

	Emission Bandwidth Limit					
UN	UNII Devices					
$\boxtimes$	For the 5.15-5.25 GHz band, N/A					
	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
$\boxtimes$	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.					

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### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

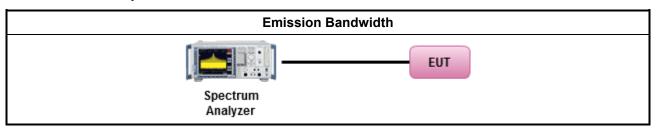
#### 3.2.3 Test Procedures

	Test Method									
$\boxtimes$	For	the e	mission bandwidth shall be measured using one of the options below:							
	$\boxtimes$	Ref	er as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.							
		Ref	er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.							
		Ref	er as IC RSS-Gen, clause 6.6 for bandwidth testing.							
$\boxtimes$	For	cond	ucted measurement.							
	$\boxtimes$	The	EUT supports single transmit chain and measurements performed on this transmit chain.							
		The	EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.							
	$\boxtimes$	The	EUT supports multiple transmit chains using options given below:							
			Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.							
			Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.							

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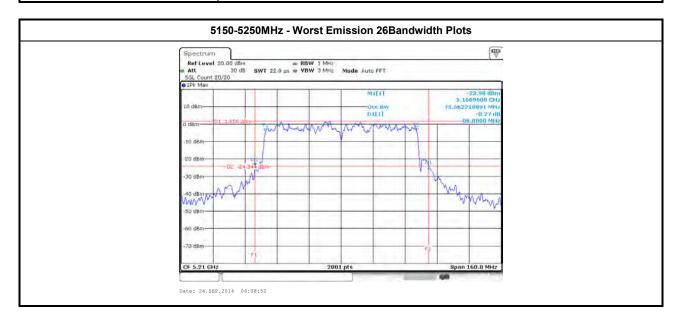
# 3.2.4 Test Setup



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#### 3.2.5 Test Result of Emission Bandwidth

		UI	VII Emission Ba	iliuwiutii Resul	•			
Condi	tion				Emission Bar	ndwidth (MHz)		
Madulation Mada	N <sub>TX</sub>	Freq.		99% Bandwidth	ı	2	26dB Bandwidt	h
Modulation Mode	NTX	(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3
11a	1	5180	16.41	-	-	18.92	-	-
11a	1	5200	16.64	-	-	26.92	-	-
11a	1	5240	16.99	-	-	23.37	-	-
HT20	3	5180	17.69	17.94	17.89	20.50	22.57	21.05
HT20	3	5200	17.66	17.94	17.96	20.55	21.35	22.25
HT20	3	5240	17.89	17.74	17.81	22.25	21.60	21.72
HT40		3	5190	36.34	37.10	36.46	40.72	44.00
HT40	3	5230	36.14	36.54	37.30	39.76	41.20	43.44
VHT20	3	5180	17.71	17.71	17.76	20.45	21.45	21.70
VHT20	3	5200	17.69	17.71	17.61	21.17	20.72	19.95
VHT20	3	5240	17.71	17.94	17.81	20.95	22.37	21.45
VHT40	3	5190	36.54	36.14	36.54	42.72	42.72	42.44
VHT40	3	5230	36.54	36.50	36.26	42.36	45.16	40.80
VHT80 3 5210		76.04	75.88	75.56	85.20	80.32	86.88	
Resu	ılt			•	Com	plied	•	•



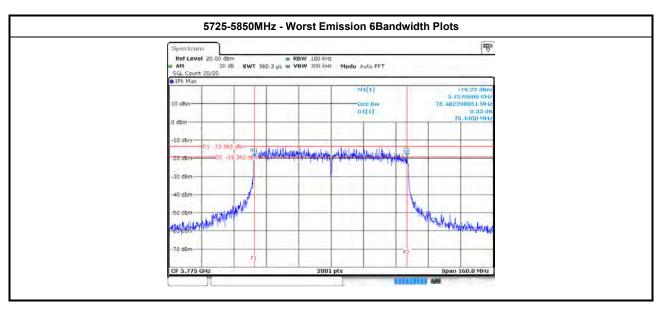
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FCC Test Report

		UI	NII Emission Ba	ındwidth Resul	t (5725-5850MF	lz band)					
Condit	ion		Emission Bandwidth (MHz)								
Madulatian Mada		Freq.	!	99% Bandwidtl	1		6dB Bandwidth	1			
Modulation Mode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3			
11a	1	5745	16.47	-	-	16.51	-	-			
11a	1	5785	16.56	-	-	16.50	-	-			
11a	1	5825	16.40	-	-	16.47	-	-			
HT20	3	5745	17.63	17.66	17.70	17.53	17.64	17.71			
HT20	3	5785	17.60	17.66	17.67	17.55	17.73	17.70			
HT20	3	5825	17.64	17.69	17.66	17.58	17.79	17.70			
HT40	3	5755	36.22	36.10	36.18	35.92	35.64	36.32			
HT40	3	5795	36.14	36.22	36.18	35.44	36.28	35.68			
VHT20	3	5745	17.67	17.63	17.64	17.56	17.64	17.58			
VHT20	3	5785	17.64	17.64	17.61	17.76	17.61	17.62			
VHT20	3	5825	17.67	17.61	17.64	17.73	17.58	17.65			
VHT40	3	5755	36.22	36.18	36.14	36.28	35.80	35.76			
VHT40	3	5795	36.18	36.18	36.18	35.72	35.72	35.88			
VHT80	3	5775	75.56	75.40	75.16	75.28	75.44	72.56			
Resu	ılt				Com	plied					

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# 3.3 RF Output Power

## 3.3.1 RF Output Power Limit

	Maximum Conducted Output Power Limit							
UNI	JNII Devices							
	For the 5.15-5.25 GHz band:							
	Outdoor AP: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ . e.i.r.p. at any elevation angle above 30 degrees $\leq$ 125mW [21dBm]							
	$\boxtimes$ Indoor AP: the maximum conducted output power (P <sub>Out</sub> ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$							
	Point-to-point AP: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$ .							
	Mobile or Portable Client: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .							
	For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .							
	For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 - ( $G_{TX}$ - 6).							
$\boxtimes$	For the 5.725-5.85 GHz band:							
	$igtriangleq$ Point-to-multipoint systems (P2M): the maximum conducted output power (P <sub>Out</sub> ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ .							
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $							
	<ul><li>= maximum conducted output power in dBm,</li><li>= the maximum transmitting antenna directional gain in dBi.</li></ul>							

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# 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

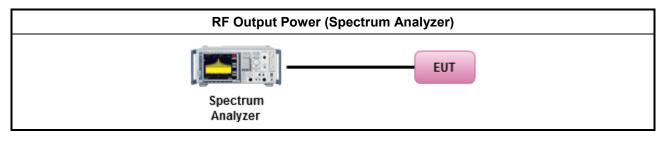
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## 3.3.3 Test Procedures

		Test Method
$\boxtimes$	Max	imum Conducted Output Power
	[dut	y cycle ≥ 98% or external video / power trigger]
	$\boxtimes$	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wid	eband RF power meter and average over on/off periods with duty factor
		Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter).
$\boxtimes$	For	conducted measurement.
	$\boxtimes$	The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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## 3.3.4 Test Setup



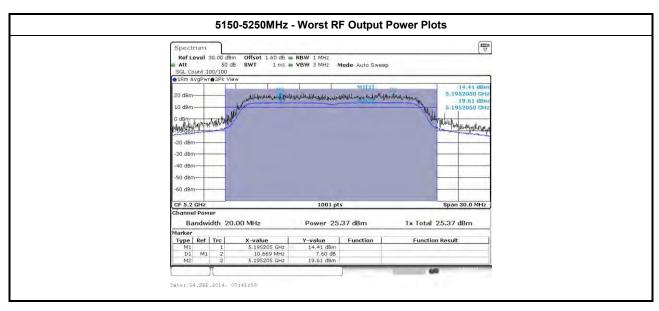
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3.3.5 Test Result of Maximum Conducted Output Power

	Maximum Conducted Output Power (5150-5250MHz band)									
		F		Output Po	wer (dBm)		Antenna Gain Power Lir			
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain		Power Limit		
11a	1	5180	21.48	-	-	21.48	2.58	30.00		
11a	1	5200	25.37	-	-	25.37	2.58	30.00		
11a	1	5240	25.12	-	-	25.12	2.58	30.00		
HT20	3	5180	16.77	17.31	16.54	21.66	2.58	30.00		
HT20	3	5200	22.44	22.84	21.85	27.17	2.58	30.00		
HT20	3	3	3	5240	21.97	22.48	21.92	26.90	2.58	30.00
HT40	3	5190	15.71	15.70	14.75	20.18	2.58	30.00		
HT40	3	5230	22.42	23.03	22.45	27.41	2.58	30.00		
VHT20	3	5180	20.61	21.01	19.91	25.30	2.58	30.00		
VHT20	3	5200	22.44	22.61	21.78	27.06	2.58	30.00		
VHT20	3	5240	21.95	22.41	21.94	26.88	2.58	30.00		
VHT40	3	5190	15.17	15.14	14.24	19.64	2.58	30.00		
VHT40	3	5230	23.52	24.00	23.54	28.46	2.58	30.00		
VHT80	3	5210	13.42	13.95	13.11	18.28	2.58	30.00		
Result				•	•	Complied				

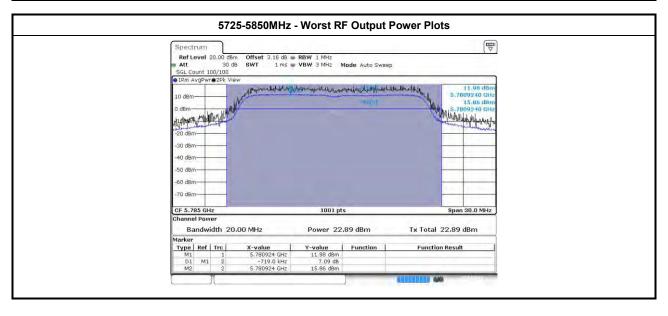
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		Maxim	um Conduct	ed Output Po	ower (5725-	5850MHz band	)	
		F		Output Po	ower (dBm)		Antonno Coin	
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Antenna Gain (dBi)	Power Limit
11a	1	5745	18.16	-	-	18.16	2.58	30.00
11a	1	5785	22.96	-	-	22.96	2.58	30.00
11a	1	5825	20.00	-	-	20.00	2.58	30.00
HT20	3	5745	15.98	15.49	14.69	20.19	2.58	30.00
HT20	3	5785	17.00	16.16	16.32	21.28	2.58	30.00
HT20	3	5825	15.58	14.74	15.32	20.00	2.58	30.00
HT40	3	5755	12.48	12.44	11.85	17.03	2.58	30.00
HT40	3	5795	17.70	17.68	17.84	22.51	2.58	30.00
VHT20	3	5745	15.91	15.47	14.78	20.18	2.58	30.00
VHT20	3	5785	17.02	16.50	16.26	21.38	2.58	30.00
VHT20	3	5825	15.62	14.69	15.36	20.01	2.58	30.00
VHT40	3	5755	12.41	12.28	11.66	16.90	2.58	30.00
VHT40	3	5795	17.71	17.59	17.68	22.43	2.58	30.00
VHT80	3	5775	7.43	7.30	7.16	12.07	2.58	30.00
Resu	Result			•	•	Complied		



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# 3.4 Peak Power Spectral Density

## 3.4.1 Peak Power Spectral Density Limit

		Peak Power Spectral Density Limit						
UNI	JNII Devices							
$\boxtimes$	For	the 5.15-5.25 GHz band:						
		Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$ .						
	$\boxtimes$	Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$ .						
		Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$ .						
		Mobile or Portable Client: the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – $(G_{TX} - 6)$						
		the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} >$ 6 dBi, PPSD= 11 – ( $G_{TX} - 6$ ).						
		the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ( $G_{TX} - 6$ ).						
$\boxtimes$	For	the 5.725-5.85 GHz band:						
	$\boxtimes$	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) $\leq$ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then PPSD= $30 - (G_{TX} - 6)$ .						
		Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.						
pow	er sh	peak power spectral density that he same method as used to determine the conducted output nall be used to determine the power spectral density. And power spectral density in dBm/MHz amaximum transmitting antenna directional gain in dBi.						

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# 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

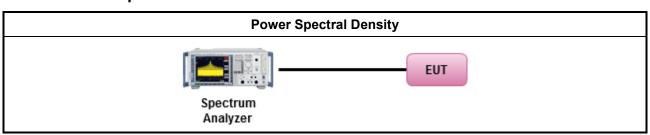
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## 3.4.3 Test Procedures

		Test Method
$\boxtimes$	outp func	c power spectral density procedures that the same method as used to determine the conducted out power shall be used to determine the peak power spectral density and use the peak search tion on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density be measured using below options:
	$\boxtimes$	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty	cycle ≥ 98% or external video / power trigger]
		Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
$\boxtimes$	For	conducted measurement.
	$\boxtimes$	The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
	$\boxtimes$	The EUT supports multiple transmit chains using options given below:
		Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
		If multiple transmit chains, EIRP PPSD calculation could be following as methods: $ PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n \\ (calculated in linear unit [mW] and transfer to log unit [dBm]) \\ EIRP_{total} = PPSD_{total} + DG $
		Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

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# 3.4.4 Test Setup



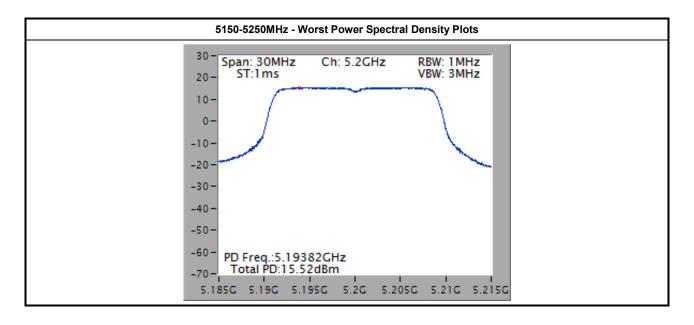
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## 3.4.5 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5150-5250MHz band)								
Modulation Mode N <sub>TX</sub> Freq. (MHz)			Peak Power Spectral Density (dBm)	PSD Limit	Antenna Gain (dBi)			
11a	1	5180	10.54	17.00	2.58			
11a	1	5200	14.41	17.00	2.58			
11a	1	5240	14.16	17.00	2.58			
HT20	3	5180	10.02	15.65	7.35			
HT20	3	5200	15.52	15.65	7.35			
HT20	3	5240	15.26	15.65	7.35			
HT40	3	5190	5.60	15.65	7.35			
HT40	3	5230	12.83	15.65	7.35			
VHT20	3	5180	13.70	15.65	7.35			
VHT20	3	5200	15.45	15.65	7.35			
VHT20	3	5240	15.30	15.65	7.35			
VHT40	3	5190	5.00	15.65	7.35			
VHT40	3	5230	13.94	15.65	7.35			
VHT80	3	5210	0.54	15.65	7.35			
Resu	ılt			Complied				

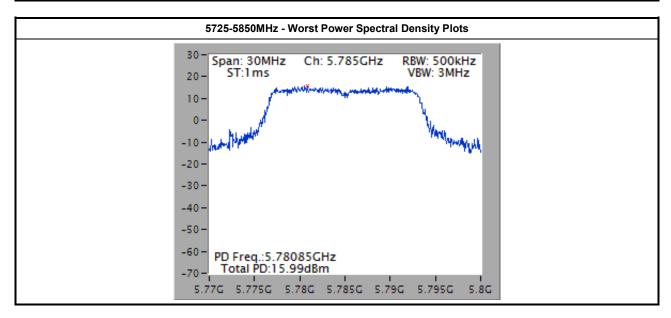


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Peak Power Spectral Density Result (5725-5850MHz band)								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Peak Power Spectral Density (dBm)	PSD Limit (500kHz)	Antenna Gain (dBi)			
11a	1	5745	11.02	30.00	2.58			
11a	1	5785	16.06	30.00	2.58			
11a	1	5825	12.68	30.00	2.58			
HT20	3	5745	12.97	28.65	7.35			
HT20	3	5785	13.98	28.65	7.35			
HT20	3	5825	12.84	28.65	7.35			
HT40	3	5755	7.82	28.65	7.35			
HT40	3	5795	12.82	28.65	7.35			
VHT20	3	5745	13.24	28.65	7.35			
VHT20	3	5785	13.48	28.65	7.35			
VHT20	3	5825	12.96	28.65	7.35			
VHT40	3	5755	6.97	28.65	7.35			
VHT40	3	5795	12.08	28.65	7.35			
VHT80	3	5775	0.14	28.65	7.35			
Resu	ılt			Complied	•			

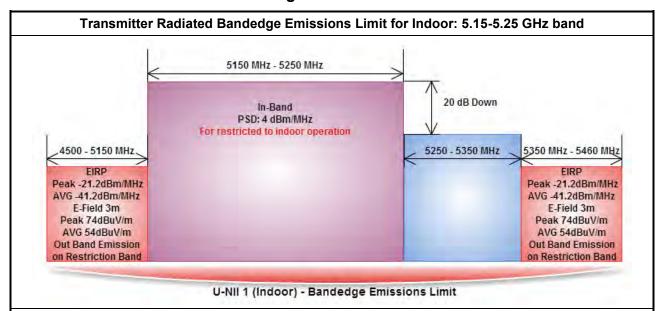


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3.5 Transmitter Bandedge Emissions

#### 3.5.1 Transmitter Radiated Bandedge Emissions Limit



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Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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# 3.5.3 Test Procedures

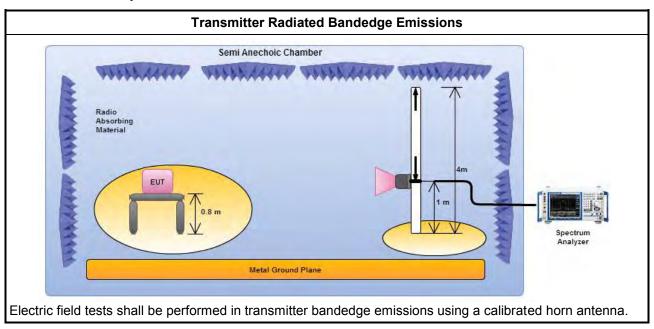
		Test Method					
$\boxtimes$	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].					
$\boxtimes$	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.						
	char will d at lo	JT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency and lower-band and highest frequency channel at higher-band. Transmitter in-band emissions consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel wer-band and highest frequency channel at higher-band in-band emissions will consist of two cent contiguous bands.)					
		Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).					
		Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).					
		T operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency inel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac 160)					
		Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).					
		Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).					
$\boxtimes$	For t	he transmitter unwanted emissions shall be measured using following options below:					
	$\boxtimes$	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.					
	$\boxtimes$	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.					
		Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).					
		Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).					
		$\boxtimes$ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.					
		Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.					
		Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.					
		Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.					
$\boxtimes$	For t	he transmitter bandedge emissions shall be measured using following options below:					
		Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).					
	$\boxtimes$	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.					
		Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.					
$\boxtimes$	For radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.						
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.						

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3.5.4 Test Setup



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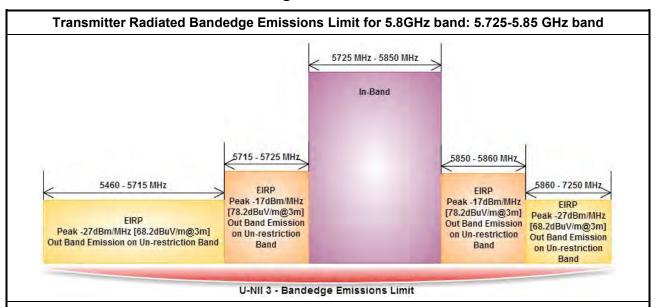
# 3.5.5 Transmitter Radiated Bandedge Emissions (with Antenna)

	U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna)									
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5180	3	5149.40	67.49	74	5150.00	51.75	54	V
11a	1	5240	3	5384.10	62.53	74	5399.70	49.53	54	V
HT20	3	5180	3	5149.10	68.59	74	5150.00	52.00	54	V
HT20	3	5240	3	5363.40	61.22	74	5399.70	48.32	54	V
HT40	3	5190	3	5148.73	66.91	74	5150.00	52.64	54	V
HT40	3	5230	3	5367.00	60.80	74	5350.00	46.55	54	V
VHT20	3	5180	3	5145.50	68.16	74	5150.00	52.81	54	V
VHT20	3	5240	3	5395.80	62.07	74	5398.50	48.33	54	V
VHT40	3	5190	3	5146.86	67.19	74	5150.00	52.99	54	V
VHT40	3	5230	3	5352.60	61.85	74	5360.10	47.97	54	V
VHT80	3	5210	3	5148.90	66.25	74	5150.00	52.50	54	V
lote 1: Measurement worst emissions of receive antenna polarization.										

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3.5.6 Transmitter Radiated Bandedge Emissions Limit



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Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

#### 3.5.7 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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3.5.8 Test Procedures

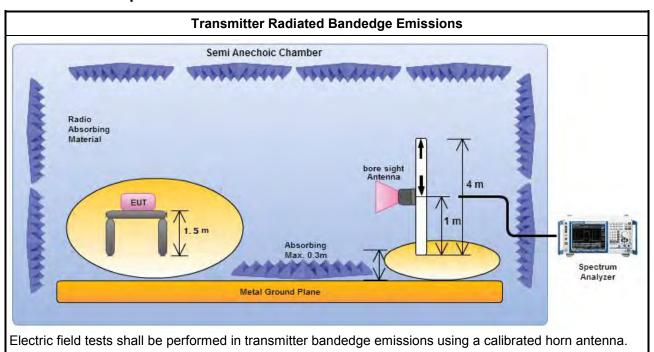
	Test Method						
$\boxtimes$	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].						
	Refer as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.						
	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)						
	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).						
	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).						
	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)						
	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).						
	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).						
	For the transmitter unwanted emissions shall be measured using following options below:						
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.						
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.						
	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).						
	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).						
	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.						
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.						
	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.						
	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.						
	For the transmitter bandedge emissions shall be measured using following options below:						
	Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).						
	Refer as ANSI C63.10, clause 6.10 for band-edge testing.						
	Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.						
$\boxtimes$	For radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.						
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.						

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## 3.5.9 Test Setup



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## 3.5.10 Transmitter Radiated Bandedge Emissions (with Antenna)

Face Measure Face (ANIA) Level Limit								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Distance (m)	Freq. (MHz) PK	(dBuV/m) PK	(dBuV/m) PK	Pol.	
11a	1	5745	3	5711.425	67.03	68.2	V	
11a	1	5745	3	5724.865	71.21	78.2	V	
11a	1	5825	3	5860.150	67.20	68.2	V	
11a	1	5825	3	5723.980	63.90	78.2	V	
HT20	3	5745	3	5713.000	67.16	68.2	V	
HT20	3	5745	3	5850.280	70.28	78.2	V	
HT20	3	5825	3	5861.620	66.83	68.2	V	
HT20	3	5825	3	5723.500	72.39	78.2	V	
HT40	3	5755	3	5714.480	66.60	68.2	V	
HT40	3	5755	3	5721.280	62.96	78.2	V	
HT40	3	5795	3	5860.450	66.56	68.2	V	
HT40	3	5795	3	5859.100	67.39	78.2	V	
VHT20	3	5745	3	5713.840	66.85	68.2	V	
VHT20	3	5745	3	5716.820	68.49	78.2	V	
VHT20	3	5825	3	5860.360	66.71	68.2	V	
VHT20	3	5825	3	5859.700	67.26	78.2	V	
VHT40	3	5755	3	5714.220	66.58	68.2	V	
VHT40	3	5755	3	5724.130	72.08	78.2	V	
VHT40	3	5795	3	5861.500	66.90	68.2	V	
VHT40	3	5795	3	5723.440	63.19	78.2	V	
VHT80	3	5775	3	5714.260	67.06	68.2	V	
VHT80	3	5775	3	5723.980	69.79	78.2	V	

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3.6 Transmitter Unwanted Emissions

#### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit								
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)					
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300					
0.490~1.705	24000/F(kHz)	33.8 - 23	30					
1.705~30.0	30	29	30					
30~88	100	40	3					
88~216	150	43.5	3					
216~960	200	46	3					
Above 960	500	54	3					

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Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted band emissions above 1GHz Limit						
Operating Band Limit						
5.15 - 5.25 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]					
5.25 - 5.35 GHz e.i.r.p27 dBm [68.2 dBuV/m@3m]						
5.47 - 5.725 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]					
5.725 - 5.85 GHz	5.715 5.725 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] 5.85 5.86 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p27 dBm [68.2 dBuV/m@3m]					

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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# 3.6.3 Test Procedures (For 5150-5250MHz)

	Test Method	
	Measurements may be performed at a distance other than the limit distance properformed in the near field and the emissions to be measured can be detected by equipment. Measurements shall not be performed at a distance greater than 30 above 30 MHz, unless it can be further demonstrated that measurements at a distance impractical. When performing measurements at a distance other than that specific be extrapolated to the specified distance using an extrapolation factor of 20 dB/decad distance for field-strength measurements, inverse of linear distance-squared measurements).	the measurement m for frequencies nce of 30 m or less ed, the results shall de (inverse of linear
	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
	$oxed{\boxtimes}$ For the transmitter unwanted emissions shall be measured using following options be	elow:
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restri	cted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted	bands.
	Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).	
	Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).	
	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, whe	re T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions	<b>3</b> .
	Refer as FCC KDB 789033, clause G)5) measurement procedure peak lim	iit.
	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit	it.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and tes	st distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and	test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is	3m.
	$\  \  \  \  \  \  \  \  \  \  \  \  \  $	
$\boxtimes$	All amplitude of spurious emissions that are attenuated by more than 20 dB below the has no need to be reported.	e permissible value

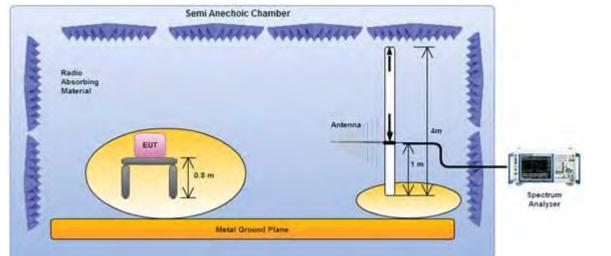
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3.6.4 **Test Setup** 

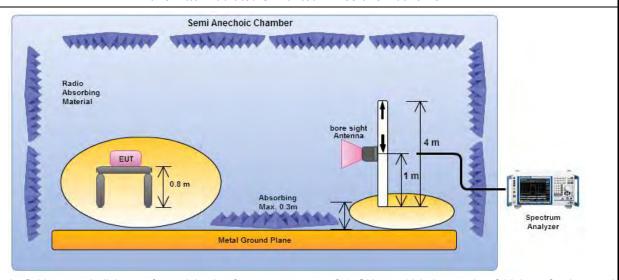
# **Transmitter Radiated Unwanted Emissions Below 1GHz** Semi Anechoic Chamber



Report No.: FR411403-25AN

Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

### **Transmitter Radiated Unwanted Emissions Above 1GHz**



Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

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# **3.6.5 Test Procedures (For 5725-5850MHz)**

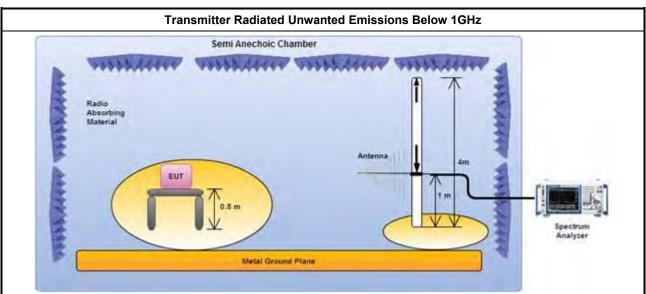
	Test Method
perfe equi abov are i be e dista	issurements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement pment. Measurements shall not be performed at a distance greater than 30 m for frequencies we 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less impractical. When performing measurements at a distance other than that specified, the results shall extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density issurements).
The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
For	the transmitter unwanted emissions shall be measured using following options below:
$\boxtimes$	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
$\boxtimes$	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
For	radiated measurement.
$\boxtimes$	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
$\boxtimes$	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 3m.
The	any unwanted emissions level shall not exceed the fundamental emission level.
	mplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.

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### 3.6.6 Test Setup



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Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

# Semi Anechoic Chamber Radio Absorbing Material Metal Ground Plane Semi Anechoic Chamber Absorbing Max. 0.3m Metal Ground Plane

Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

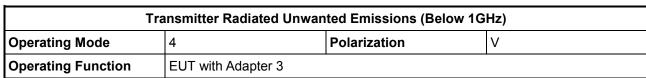
### 3.6.7 Transmitter Radiated Unwanted Emissions-with Antenna (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

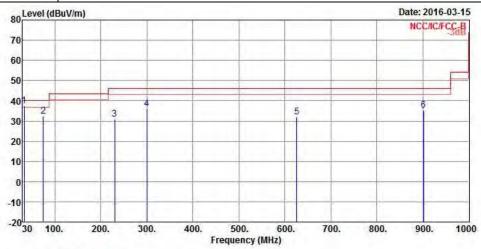
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3.6.8 Transmitter Radiated Unwanted Emissions (Below 1GHz)



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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remar
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_
1!	33.880	37.42	-2.58	40.00	40.95	23.20	0.83	27.56	QP
2	74.620	32.47	-7.53	40.00	45.75	12.86	1.29	27.43	Peak
3	229.820	30.91	-15.09	46.00	38.36	17.03	2.39	26.87	Peak
4	299.660	36.19	-9.81	46.00	40.47	19.77	2.61	26.66	Peak
4 5	625.580	32.02	-13.98	46.00	30.73	25.10	4.16	27.97	Peak
6	901.060	35.41	-10.59	46.00	30.53	27.54	4.95	27.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

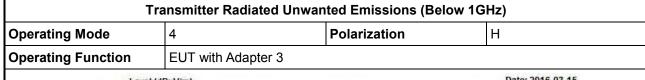
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

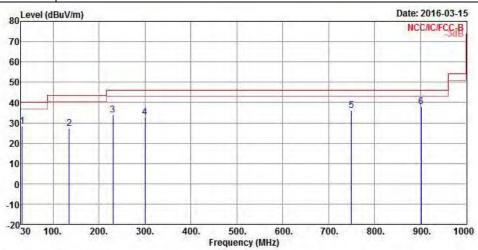
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Freq	Level	Over Limit	The Manager Barrier		Antenna Factor		Preamp Factor	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	32.910	28.32	-11.68	40.00	31.26	23.80	0.82	27.56	Peak
2	134.760	27.20	-16.30	43.50	34.37	18.24	1.80	27.21	Peak
3	229.820	33.80	-12.20	46.00	41.25	17.03	2.39	26.87	Peak
4	299.660	32.68	-13.32	46.00	36.96	19.77	2.61	26.66	Peak
5	749.740	36.11	-9.89	46.00	33.15	26.28	4.53	27.85	Peak
6	901.060	37.88	-8.12	46.00	33.00	27.54	4.95	27.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

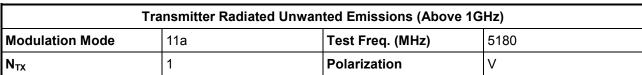
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

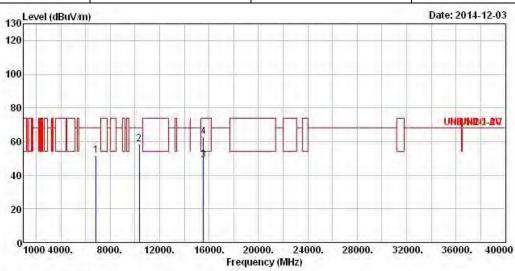
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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### 3.6.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5150-5250MHz

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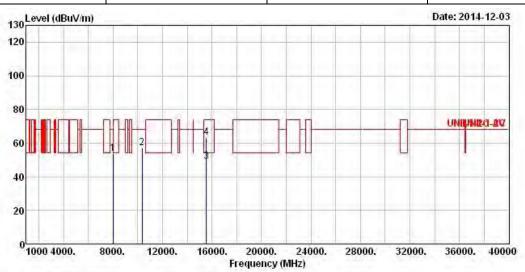
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	6871.000	51.96	-16.24	68.20	42.50	35.05	6.96	32.55	Peak
2	10360.000	58.52	-9.68	68.20	43.42	38.95	8.92	32.77	Peak
3	15540.000	48.77	-5.23	54.00	31.65	37.73	11.59	32.20	Average
4	15540.000	62.75	-11.25	74.00	45.63	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5180					
N <sub>TX</sub>	1	Polarization	Н					

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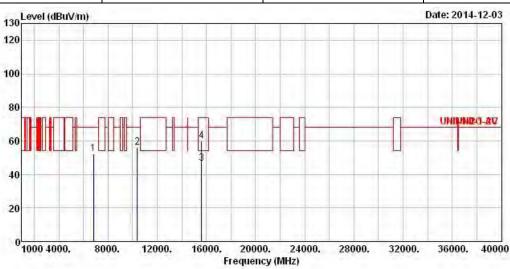
	Freq	Level	Over Limit	Limit Line		Antenna Factor		1000	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7991.000	53.89	-14.31	68.20	41.43	36.98	8.28	32.80	Peak
2	10360.000	57.27	-10.93	68.20	42.17	38.95	8.92	32.77	Peak
3	15540.000	48.88	-5.12	54.00	31.76	37.73	11.59	32.20	Average
4	15540.000	63.49	-10.51	74.00	46.37	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5200						
N <sub>TX</sub>	1	Polarization	V						

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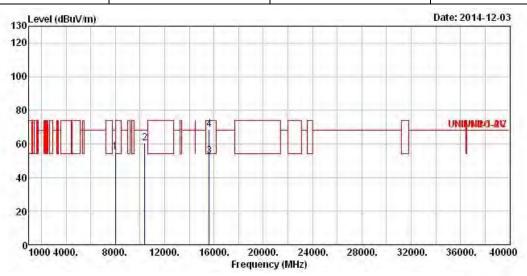
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_
1	6824.000	52.24	-15.96	68.20	42.90	34.99	6.89	32.54	Peak
2	10400.000	55.97	-12.23	68.20	40.82	38.94	8.94	32.73	Peak
3	15600.000	46.61	-7.39	54.00	29.65	37.59	11.59	32.22	Average
4	15600.000	59.84	-14.16	74.00	42.88	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5200					
N <sub>TX</sub>	1	Polarization	Н					

Report No.: FR411403-25AN

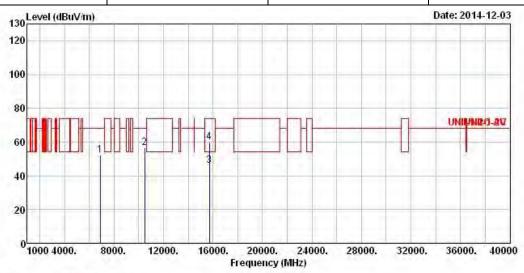


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	8001.000	55.24	-12.96	68.20	42.78	37.00	8.26	32.80	Peak
2	10400.000	60.43	-7.77	68.20	45.28	38.94	8.94	32.73	Peak
3	15600.000	52.94	-1.06	54.00	35.98	37.59	11.59	32.22	Average
4	15600.000	68.55	-5.45	74.00	51.59	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5240						
N <sub>TX</sub>	1	Polarization	V						



	Freq	Level	Over Limit	Limit Line		Antenna Factor		4.00	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
í	6891.000	52.21	-15.99	68.20	42.70	35.11	6.96	32.56	Peak
2	10480.000	56.81	-11.39	68.20	41.58	38.91	8.99	32.67	Peak
3	15720.000	45.91	-8.09	54.00	29.22	37.35	11.59	32.25	Average
4	15720.000	59.91	-14.09	74.00	43.22	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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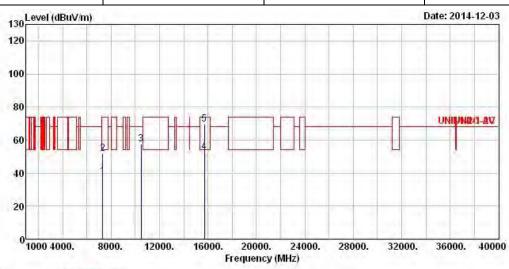
Report Version

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5240					
N <sub>TX</sub>	1	Polarization	Н					

Report No.: FR411403-25AN

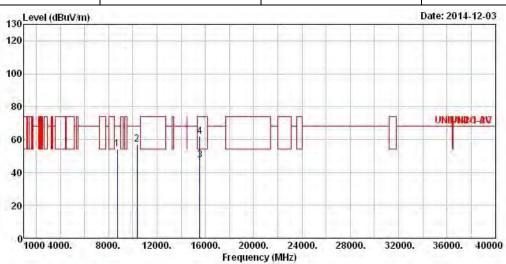


		0ver		Limit ReadAr		Antenna Cable		Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7311.000	37.68	-16.32	54.00	27.02	36.04	7.28	32.66	Average
2	7311.000	52.01	-21.99	74.00	41.35	36.04	7.28	32.66	Peak
3	10480.000	57.54	-10.66	68.20	42.31	38.91	8.99	32.67	Peak
4	15720.000	52.67	-1.33	54.00	35.98	37.35	11.59	32.25	Average
5	15720.000	69.41	-4.59	74.00	52.72	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5180					
N <sub>TX</sub>	3	Polarization	V					



			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Freq Le∨el Li		imit Line		Level Factor		Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	8724.000	54.01	-14.19	68.20	40.91	38.10	7.89	32.89	Peak
2	10360.000	56.98	-11.22	68.20	41.88	38.95	8.92	32.77	Peak
3	15540.000	47.64	-6.36	54.00	30.52	37.73	11.59	32.20	Average
4	15540.000	61.71	-12.29	74.00	44.59	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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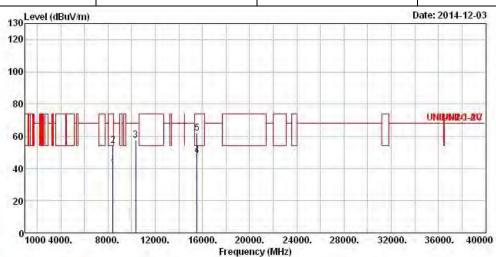
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FCC Test Report No.: FR411403-25AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5180				
$N_{TX}$	3	Polarization	Н				



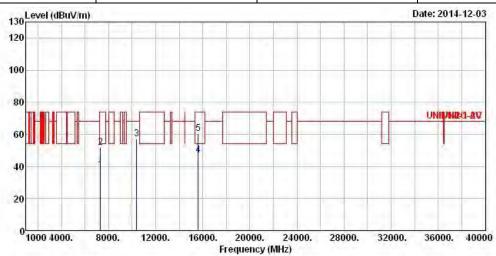
			Over	Limit	Read	Antenna	Cable	Preamp	
		Level	Limit	Line	Level	Factor	Loss	Factor	Remark
		dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	8421.000	40.51	-13.49	54.00	27.32	37.95	8.05	32.81	Average
2	8421.000	54.29	-19.71	74.00	41.10	37.95	8.05	32.81	Peak
3	10360.000	57.59	-10.61	68.20	42.49	38.95	8.92	32.77	Peak
4	15540.000	47.77	-6.23	54.00	30.65	37.73	11.59	32.20	Average
5	15540.000	62.01	-11.99	74.00	44.89	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	5200							
N <sub>TX</sub>	3	Polarization	V							

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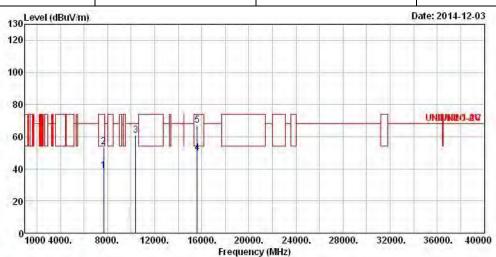
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7324.000	37.69	-16.31	54.00	26.99	36.09	7.28	32.67	Average
2	7324.000	52.01	-21.99	74.00	41.31	36.09	7.28	32.67	Peak
3	10400.000	57.06	-11.14	68.20	41.91	38.94	8.94	32.73	Peak
4	15600.000	46.97	-7.03	54.00	30.01	37.59	11.59	32.22	Average
5	15600.000	60.56	-13.44	74.00	43.60	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT20	Test Freq. (MHz)	5200						
N <sub>TX</sub>	3	Polarization	Н						

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	2000	4-12	0ver			Antenna		SOFT STATES	2000
	Freq	Level	Limit	Line	Level.	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7687.000	38.99	-15.01	54.00	27.35	36.68	7.71	32.75	Average
2	7687.000	53.49	-20.51	74.00	41.85	36.68	7.71	32.75	Peak
3	10400.000	60.91	-7.29	68.20	45.76	38.94	8.94	32.73	Peak
4	15600.000	49.72	-4.28	54.00	32.76	37.59	11.59	32.22	Average
5	15600.000	67.21	-6.79	74.00	50.25	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

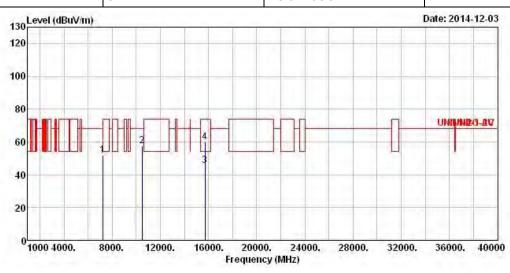
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5240

N<sub>TX</sub> 3 Polarization V

Report No.: FR411403-25AN



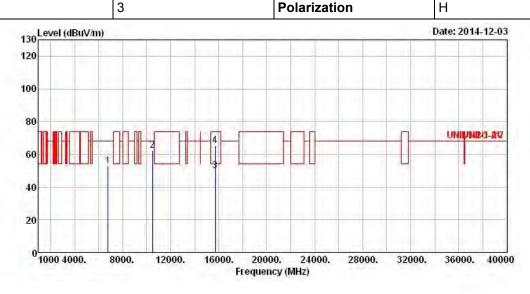
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7211.000	51.66	-16.54	68.20	41.30	35.80	7.20	32.64	Peak
2	10480.000	57.64	-10.56	68.20	42.41	38.91	8.99	32.67	Peak
3	15720.000	45.78	-8.22	54.00	29.09	37.35	11.59	32.25	Average
4	15720.000	59.74	-14.26	74.00	43.05	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	HT20	Test Freq. (MHz)	5240
N <sub>TX</sub>	3	Polarization	Н

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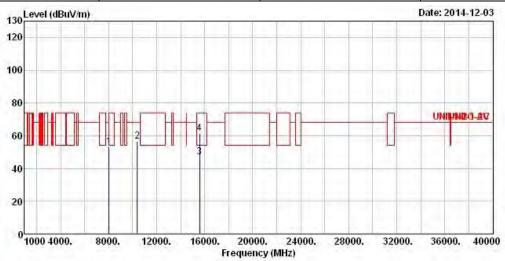
			Over	Limit	ReadA	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	2
1	6787.000	52.99	-15.21	68.20	43.77	34.90	6.86	32.54	Peak
2	10480.000	62.22	-5.98	68.20	46.99	38.91	8.99	32.67	Peak
3	15720.000	50.11	-3.89	54.00	33.42	37.35	11.59	32.25	Average
4	15720.000	65.21	-8.79	74.00	48.52	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)					
Modulation Mode	HT40	Test Freq. (MHz)	5190		
$N_{TX}$	3	Polarization	V		

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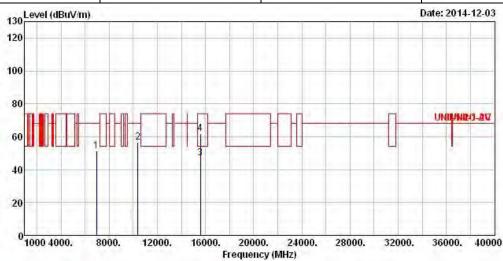
	Freq	Le∨el	0∨er Limit			Antenna Factor			Remark
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	
1	8024.000	53.21	-14.99	68.20	40.71	37.04	8.26	32.80	Peak
2	10380.000	56.72	-11.48	68.20	41.58	38.95	8.94	32.75	Peak
3	15570.000	47.11	-6.89	54.00	30.06	37.66	11.59	32.20	Average
4	15570.000	61.57	-12.43	74.00	44.52	37.66	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	ınsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	HT40	Test Freq. (MHz)	5190
N <sub>TX</sub>	3	Polarization	Н

Report No.: FR411403-25AN



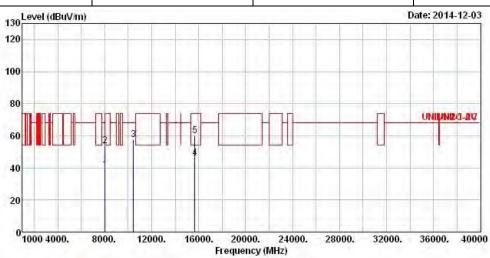
	Freq	Level	O∨er Limit			Antenna Factor		The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	6941.000	51.21	-16.99	68.20	41.61	35.18	6.99	32.57	Peak
2	10380.000	56.79	-11.41	68.20	41.65	38.95	8.94	32.75	Peak
3	15570.000	47.11	-6.89	54.00	30.06	37.66	11.59	32.20	Average
4	15570.000	61.77	-12.23	74.00	44.72	37.66	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	HT40	Test Freq. (MHz)	5230			
N <sub>TX</sub>	3	Polarization	V			

Report No.: FR411403-25AN



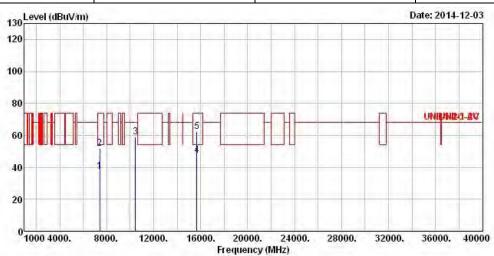
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	8041.000	38.91	-15.09	54.00	26.39	37.08	8.24	32.80	Average
2	8041.000	53.78	-20.22	74.00	41.26	37.08	8.24	32.80	Peak
3	10460.000	57.51	-10.69	68.20	42.29	38.92	8.99	32.69	Peak
4	15690.000	46.21	-7.79	54.00	29.44	37.42	11.59	32.24	Average
5	15690.000	59.97	-14.03	74.00	43.20	37.42	11.59	32.24	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)					
Modulation Mode	HT40	Test Freq. (MHz)	5230		
$N_{TX}$	3	Polarization	Н		



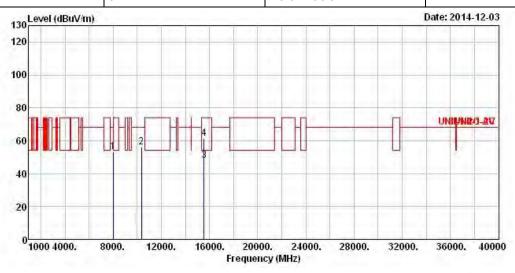
	Freq	Level	O∨er Limit	Limit Line		Antenna Factor		Preamp Factor	
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	
1	7411.000	37.61	-16.39	54.00	26.67	36.29	7.34	32.69	Average
2	7411.000	52.01	-21.99	74.00	41.07	36.29	7.34	32.69	Peak
3	10460.000	58.99	-9.21	68.20	43.77	38.92	8.99	32.69	Peak
4	15690.000	47.56	-6.44	54.00	30.79	37.42	11.59	32.24	Average
5	15690.000	62.41	-11.59	74.00	45.64	37.42	11.59	32.24	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiat	ed Unwanted Emissions (Above	e 1GHz)
Modulation Mode	VHT20	Test Freq. (MHz)	5180
N <sub>TX</sub>	3	Polarization	V

Report No.: FR411403-25AN



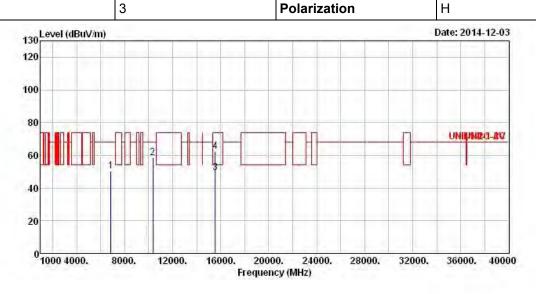
	Freq	Level		Limit Line				The second second	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8011.000	53.46	-14.74	68.20	41.00	37.00	8.26	32.80	Peak
2	10360.000	56.24	-11.96	68.20	41.14	38.95	8.92	32.77	Peak
3	15540.000	48.01	-5.99	54.00	30.89	37.73	11.59	32.20	Average
4	15540.000	61.24	-12.76	74.00	44.12	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5180				
N <sub>TX</sub>	3	Polarization	Н				

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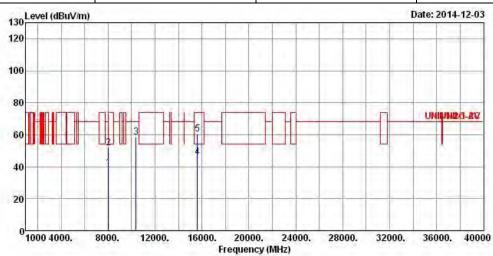


			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	) <del></del>
1	6871.000	50.21	-17.99	68.20	40.75	35.05	6.96	32.55	Peak
2	10360.000	58.71	-9.49	68.20	43.61	38.95	8.92	32.77	Peak
3	15540.000	49.21	-4.79	54.00	32.09	37.73	11.59	32.20	Average
4	15540.000	62.21	-11.79	74.00	45.09	37.73	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	VHT20	Test Freq. (MHz)	5200				
N <sub>TX</sub> 1		Polarization	V				



	Freq	Level	0∨er Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8041.000	39.49	-14.51	54.00	26.97	37.08	8.24	32.80	Average
2	8041.000	52.01	-21.99	74.00	39.49	37.08	8.24	32.80	Peak
3	10400.000	58.74	-9.46	68.20	43.59	38.94	8.94	32.73	Peak
4	15600.000	46.21	-7.79	54.00	29.25	37.59	11.59	32.22	Average
5	15600.000	60.61	-13.39	74.00	43.65	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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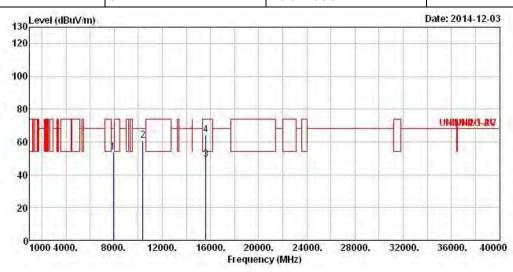
Report Version

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Report No.: FR411403-25AN

	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5200					
N <sub>TX</sub>	3	Polarization	Н					

Report No.: FR411403-25AN



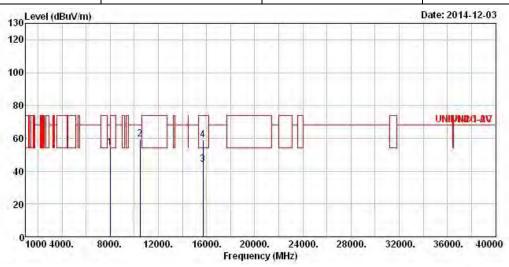
	Freq	Level	0∨er Limit			Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7926.000	53.89	-14.31	68.20	41.55	36.92	8.21	32.79	Peak
2	10400.000	60.89	-7.31	68.20	45.74	38.94	8.94	32.73	Peak
3	15600.000	49.46	-4.54	54.00	32.50	37.59	11.59	32.22	Average
4	15600.000	64.26	-9.74	74.00	47.30	37.59	11.59	32.22	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FCC Test Report No.: FR411403-25AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5240				
$N_{TX}$	3	Polarization	V				



			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	MHz dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8014.000	53.97	-14.23	68.20	41.47	37.04	8.26	32.80	Peak
2	10480.000	59.71	-8.49	68.20	44.48	38.91	8.99	32.67	Peak
3	15720.000	44.24	-9.76	54.00	27.55	37.35	11.59	32.25	Average
4	15720.000	59.11	-14.89	74.00	42.42	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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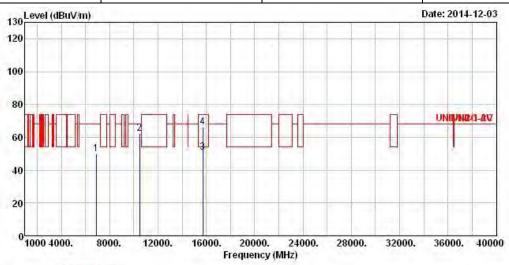
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Report No. : FR411403-25AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5240				
$N_{TX}$	3		Н				



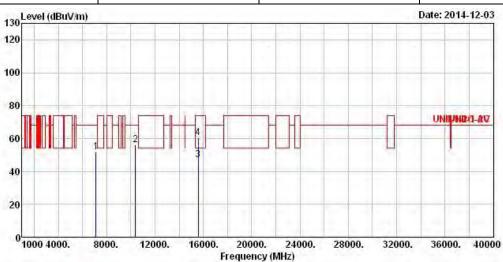
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	6877.000	49.91	-18.29	68.20	40.42	35.08	6.96	32.55	Peak
2	10480.000	62.24	-5.96	68.20	47.01	38.91	8.99	32.67	Peak
3	15720.000	50.97	-3.03	54.00	34.28	37.35	11.59	32.25	Average
4	15720.000	66.01	-7.99	74.00	49.32	37.35	11.59	32.25	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	VHT40	Test Freq. (MHz)	5190			
N <sub>TX</sub>	3	Polarization	V			

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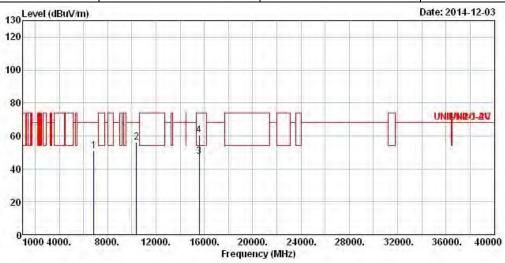
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7111.000	51.97	-16.23	68.20	41.90	35.55	7.14	32.62	Peak
2	10380.000	56.14	-12.06	68.20	41.00	38.95	8.94	32.75	Peak
3	15570.000	47.21	-6.79	54.00	30.16	37.66	11.59	32.20	Average
4	15570.000	60.34	-13.66	74.00	43.29	37.66	11.59	32.20	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)				
Modulation Mode VHT40 Test Freq. (MHz) 5190							
$N_{TX}$	3	Polarization	Н				



	Freq	Level				Antenna Factor			Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	6872.000	50.91	-17.29	68.20	41.45	35.05	6.96	32.55	Peak	
2	10380.000	55.89	-12.31	68.20	40.75	38.95	8.94	32.75	Peak	
3	15570.000	47.59	-6.41	54.00	30.54	37.66	11.59	32.20	Average	
4	15570.000	60.46	-13.54	74.00	43.41	37.66	11.59	32.20	Peak	

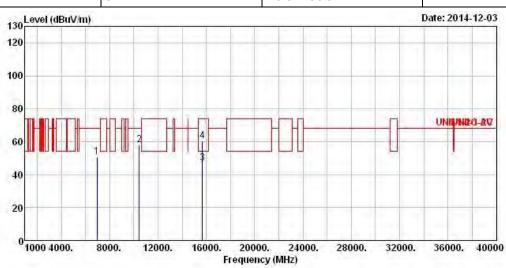
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT40 Test Freq. (MHz) 5230

N<sub>TX</sub> 3 Polarization V



	Freq	Level		Limit Line				A STATE OF THE PARTY OF THE PAR	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	6971.000	50.77	-17.43	68.20	41.08	35.24	7.02	32.57	Peak
2	10460.000	57.89	-10.31	68.20	42.67	38.92	8.99	32.69	Peak
3	15690.000	46.79	-7.21	54.00	30.02	37.42	11.59	32.24	Average
4	15690.000	60.21	-13.79	74.00	43.44	37.42	11.59	32.24	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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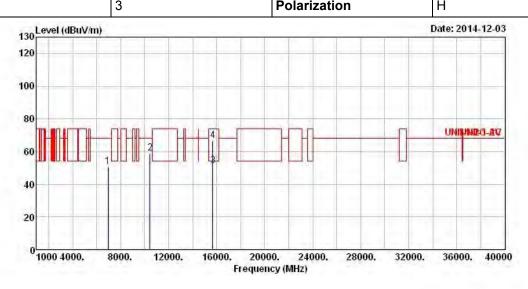
Report Version

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Report No.: FR411403-25AN

Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	VHT40	Test Freq. (MHz)	5230
N <sub>TX</sub>	3	Polarization	Н

Report No.: FR411403-25AN



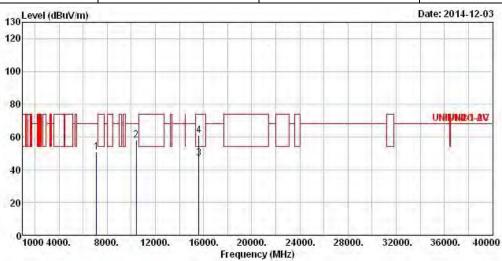
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	6971.000	50.65	-17.55	68.20	40.96	35.24	7.02	32.57	Peak
2	10460.000	59.21	-8.99	68.20	43.99	38.92	8.99	32.69	Peak
3	15690.000	51.21	-2.79	54.00	34.44	37.42	11.59	32.24	Average
4	15690.000	66.64	-7.36	74.00	49.87	37.42	11.59	32.24	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	Modulation Mode VHT80 Test Freq. (MHz) 5210							
$N_{TX}$	3	Polarization	V					

Report No.: FR411403-25AN



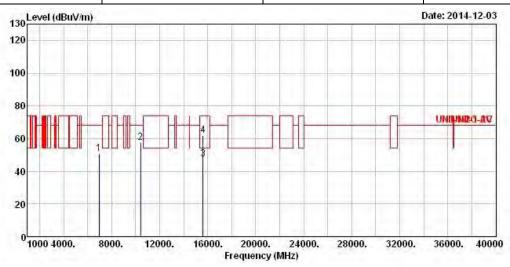
			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7119.000	50.91	-17.29	68.20	40.80	35.59	7.14	32.62	Peak
2	10420.000	57.91	-10.29	68.20	42.74	38.93	8.97	32.73	Peak
3	15630.000	47.01	-6.99	54.00	30.13	37.52	11.59	32.23	Average
4	15630.000	60.71	-13.29	74.00	43.83	37.52	11.59	32.23	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)				
Modulation Mode VHT80 Test Freq. (MHz) 5210							
N <sub>TX</sub>	3	Polarization	Н				



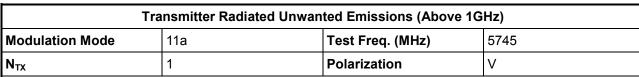
			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	6971.000	51.03	- 17 . 17	68.20	41.34	35.24	7.02	32.57	Peak
2	10420.000	57.64	-10.56	68.20	42.47	38.93	8.97	32.73	Peak
3	15630,000	47.26	-6.74	54.00	30.38	37.52	11.59	32.23	Average
4	15630.000	62.03	-11.97	74.00	45.15	37.52	11.59	32.23	Peak

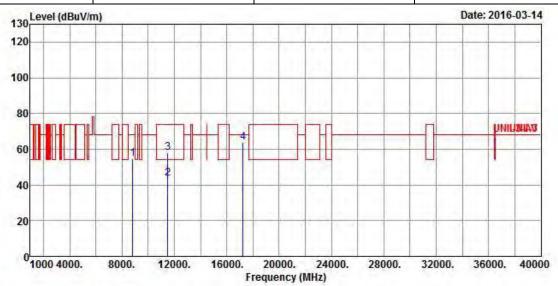
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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# 3.6.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5725-5850MHz

Report No.: FR411403-25AN





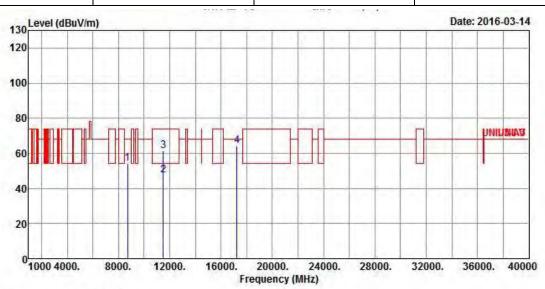
	Freq	Level				Antenna Factor		The second second	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_
1	8835.000	54.65	-13.55	68.20	43.84	37.77	6.09	33.05	Peak
2	11490.000	43.55	-10.45	54.00	30.05	39.18	6.78	32.46	Average
3	11490.000	57.80	-16.20	74.00	44.30	39.18	6.78	32.46	Peak
4	17235.000	63.70	-4.50	68.20	44.99	41.72	8.53	31.54	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tr	ansmitter Radiated Unwanted Emissions (Above 1GHz)						
Modulation Mode	11a	Test Freq. (MHz)	5745				
N <sub>TX</sub>	1	Polarization	Н				

Report No.: FR411403-25AN



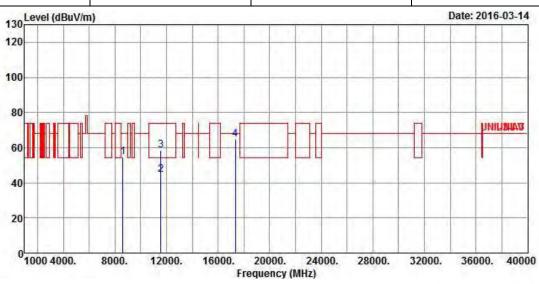
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8715.000	54.12	-14.08	68.20	43.30	37.74	6.10	33.02	Peak
2	11490.000	47.33	-6.67	54.00	33.83	39.18	6.78	32.46	Average
3	11490.000	61.57	-12.43	74.00	48.07	39.18	6.78	32.46	Peak
4	17235.000	64.43	-3.77	68.20	45.72	41.72	8.53	31.54	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5785						
N <sub>TX</sub>	1	Polarization	V						

Report No.: FR411403-25AN



Freq	Level							Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
8616.000	54.70	-13.50	68.20	43.86	37.72	6.10	32.98	Peak
11570.000	44.64	-9.36	54.00	31.04	39.23	6.84	32.47	Average
11570.000	58.71	-15.29	74.00	45.11	39.23	6.84	32.47	Peak
17355.000	64.78	-3.42	68.20	45.26	42.63	8.46	31.57	Peak
	MHz 8616.000 11570.000 11570.000	MHz dBuV/m 8616.000 54.70 11570.000 44.64 11570.000 58.71	Freq Level Limit  MHz dBuV/m dB  8616.000 54.70 -13.50 11570.000 44.64 -9.36 11570.000 58.71 -15.29	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  8616.000 54.70 -13.50 68.20 11570.000 44.64 -9.36 54.00 11570.000 58.71 -15.29 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  8616.000 54.70 -13.50 68.20 43.86 11570.000 44.64 -9.36 54.00 31.04 11570.000 58.71 -15.29 74.00 45.11	Freq Level Limit Line Level Factor  MHz dBuV/m dB dBuV/m dBuV dB/m  8616.000 54.70 -13.50 68.20 43.86 37.72 11570.000 44.64 -9.36 54.00 31.04 39.23 11570.000 58.71 -15.29 74.00 45.11 39.23	Freq Level Limit Line Level Factor Loss  MHz dBuV/m dB dBuV/m dBuV dB/m dB  8616.000 54.70 -13.50 68.20 43.86 37.72 6.10 11570.000 44.64 -9.36 54.00 31.04 39.23 6.84 11570.000 58.71 -15.29 74.00 45.11 39.23 6.84	8616.000 54.70 -13.50 68.20 43.86 37.72 6.10 32.98 11570.000 44.64 -9.36 54.00 31.04 39.23 6.84 32.47

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

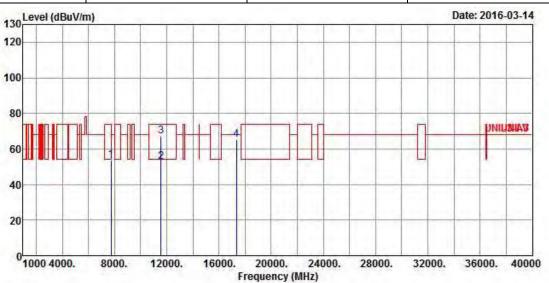
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11a	Test Freq. (MHz)	5785					
N <sub>TX</sub>	1	Polarization	Н					

Report No.: FR411403-25AN



	Freq	Level		Limit Line				39 1 1 1 1	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7752.000	53.55	-14.65	68.20	43.89	36.80	5.76	32.90	Peak
2	11570.000	52.57	-1.43	54.00	38.97	39.23	6.84	32.47	Average
3	11570.000	67.37	-6.63	74.00	53.77	39.23	6.84	32.47	Peak
4	17355.000	65.31	-2.89	68.20	45.79	42.63	8.46	31.57	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

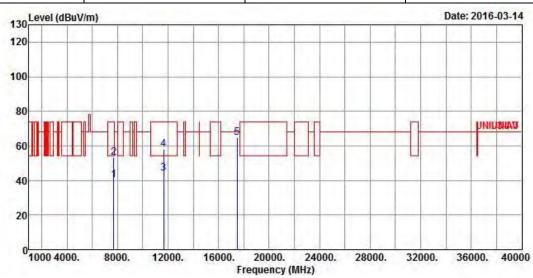
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11a	Test Freq. (MHz)	5825					
N <sub>TX</sub>	1	Polarization	V					

Report No.: FR411403-25AN



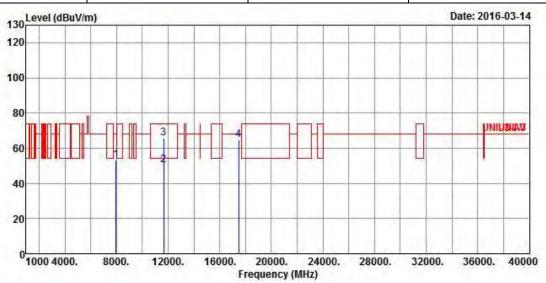
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7715.000	40.18	-13.82	54.00	30.56	36.76	5.75	32.89	Average
2	7715.000	53.48	-20.52	74.00	43.86	36.76	5.75	32.89	Peak
3	11650.000	43.94	-10.06	54.00	30.26	39.26	6.90	32.48	Average
4	11650.000	57.90	-16.10	74.00	44.22	39.26	6.90	32.48	Peak
5	17475.000	64.93	-3.27	68.20	44.60	43.54	8.40	31.61	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11a	Test Freq. (MHz)	5825					
N <sub>TX</sub>	1	Polarization	Н					



	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7967.000	53.21	-14.99	68.20	43.26	37.06	5.82	32.93	Peak
2	11650.000	50.25	-3.75	54.00	36.57	39.26	6.90	32.48	Average
3	11650.000	65.51	-8.49	74.00	51.83	39.26	6.90	32.48	Peak
4	17475.000	64.80	-3.40	68.20	44.47	43.54	8.40	31.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

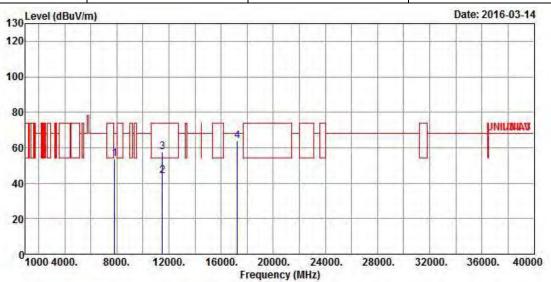
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FCC Test Report No.: FR411403-25AN

Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5745					
N <sub>TX</sub>	3	Polarization	V					



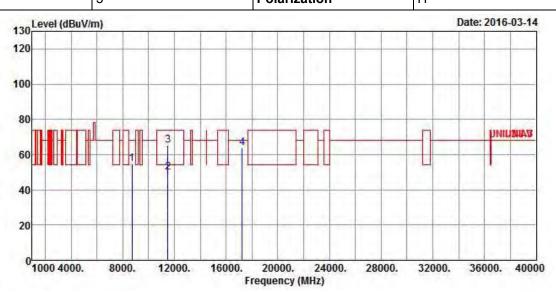
	Freq	Level	Over Limit	Limit Line		Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	— dB	-
1	7835.000	53.65	-14.55	68.20	43.88	36.90	5.78	32.91	Peak
2	11490.000	43.92	-10.08	54.00	30.42	39.18	6.78	32.46	Average
3	11490.000	57.51	-16.49	74.00	44.01	39.18	6.78	32.46	Peak
4	17235.000	63.85	-4.35	68.20	45.14	41.72	8.53	31.54	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	ansmitter Radiated Unwar	ited Emissions (Above 1G	iHz)
Modulation Mode	HT20	Test Freq. (MHz)	5745
N	3	Polarization	н

Report No.: FR411403-25AN



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8721.000	54.71	-13.49	68.20	43.89	37.74	6.10	33.02	Peak
2	11490.000	49.70	-4.30	54.00	36.20	39.18	6.78	32.46	Average
3	11490.000	65.02	-8.98	74.00	51.52	39.18	6.78	32.46	Peak
4	17235.000	63.93	-4.27	68.20	45.22	41.72	8.53	31.54	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

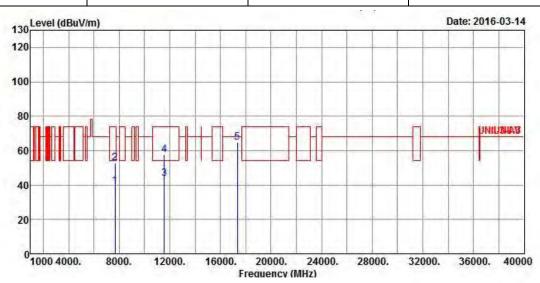
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT20	Test Freq. (MHz)	5785						
N <sub>TX</sub>	3	Polarization	V						

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	Freq	Level	Over Limit	Limit Line		Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7685.000	39.55	-14.45	54.00	29.98	36.72	5.74	32.89	Average
2	7685.000	52.82	-21,18	74.00	43.25	36.72	5.74	32.89	Peak
3	11570.000	43.88	-10.12	54.00	30.28	39.23	6.84	32.47	Average
4	11570.000	57.52	-16.48	74.00	43.92	39.23	6.84	32.47	Peak
5	17355.000	64.65	-3.55	68.20	45.13	42.63	8.46	31.57	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

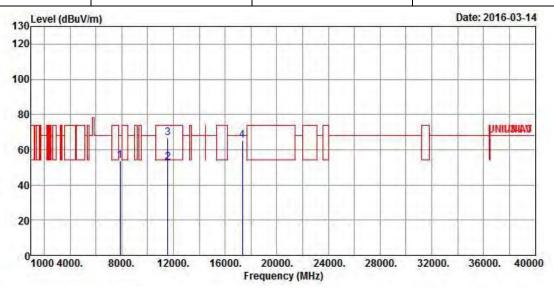
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5785					
N <sub>TX</sub>	3	Polarization	Н					

Report No.: FR411403-25AN



	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7877.000	53.53	-14.67	68.20	43.70	36.96	5.79	32.92	Peak
2	11570.000	52.67	-1.33	54.00	39.07	39.23	6.84	32.47	Average
3	11570.000	66.59	-7.41	74.00	52.99	39.23	6.84	32.47	Peak
4	17355.000	65.34	-2.86	68.20	45.82	42.63	8.46	31.57	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

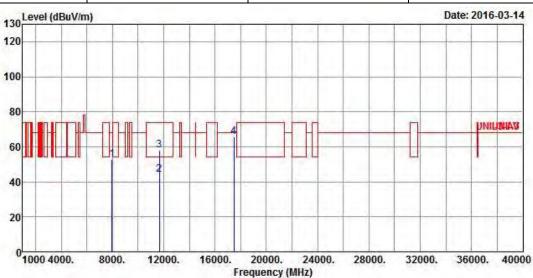
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5825					
$N_{TX}$	3	Polarization	V					

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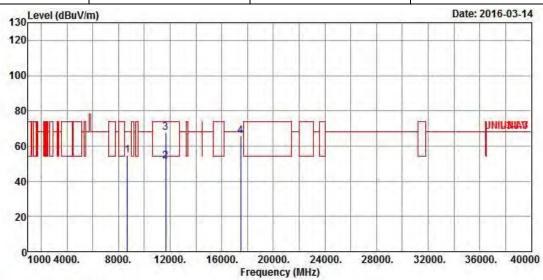
Freq	Level							Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
7976.000	52.91	-15.29	68.20	42.97	37.06	5.82	32.94	Peak
11650.000	44.23	-9.77	54.00	30.55	39.26	6.90	32.48	Average
11650.000	57.88	-16.12	74.00	44.20	39.26	6.90	32.48	Peak
17475.000	65.51	-2.69	68.20	45.18	43.54	8.40	31.61	Peak
	7976.000 11650.000 11650.000	MHz dBuV/m 7976.000 52.91 11650.000 44.23 11650.000 57.88	Freq Level Limit  MHz dBuV/m dB  7976.000 52.91 -15.29 11650.000 44.23 -9.77 11650.000 57.88 -16.12	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  7976.000 52.91 -15.29 68.20 11650.000 44.23 -9.77 54.00 11650.000 57.88 -16.12 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  7976.000 52.91 -15.29 68.20 42.97 11650.000 44.23 -9.77 54.00 30.55 11650.000 57.88 -16.12 74.00 44.20	Freq Level Limit Line Level Factor  MHz dBuV/m dB dBuV/m dBuV dB/m  7976.000 52.91 -15.29 68.20 42.97 37.06 11650.000 44.23 -9.77 54.00 30.55 39.26 11650.000 57.88 -16.12 74.00 44.20 39.26	Freq Level Limit Line Level Factor Loss  MHz dBuV/m dB dBuV/m dBuV dB/m dB  7976.000 52.91 -15.29 68.20 42.97 37.06 5.82 11650.000 44.23 -9.77 54.00 30.55 39.26 6.90 11650.000 57.88 -16.12 74.00 44.20 39.26 6.90	7976.000 52.91 -15.29 68.20 42.97 37.06 5.82 32.94 11650.000 44.23 -9.77 54.00 30.55 39.26 6.90 32.48 11650.000 57.88 -16.12 74.00 44.20 39.26 6.90 32.48

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	5825					
N <sub>TX</sub>	3	Polarization	Н					

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	Freq	Level	Over Limit	-		Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8696.000	54.73	-13.47	68.20	43.90	37.74	6.10	33.01	Peak
2	11650.000	51.43	-2.57	54.00	37.75	39.26	6.90	32.48	Average
3	11650.000	67.50	-6.50	74.00	53.82	39.26	6.90	32.48	Peak
4	17475.000	65.76	-2.44	68.20	45.43	43.54	8.40	31.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

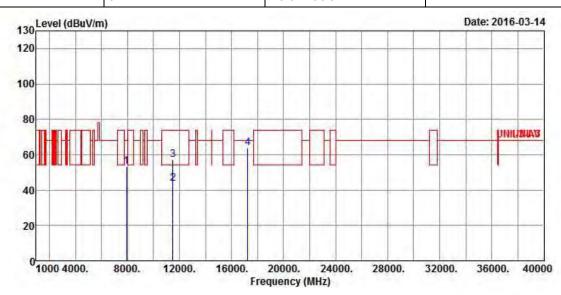
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radi	ated Unwanted Emissions (Abov	e 1GHz)
Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	3	Polarization	V

Report No.: FR411403-25AN



	Freq	Level				Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7953.000	53.31	-14.89	68.20	43.39	37.04	5.81	32.93	Peak
2	11510.000	43.73	-10.27	54.00	30.21	39.20	6.78	32.46	Average
3	11510.000	57.27	-16.73	74.00	43.75	39.20	6.78	32.46	Peak
4	17265.000	63.93	-4.27	68.20	45.00	41.98	8.50	31.55	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

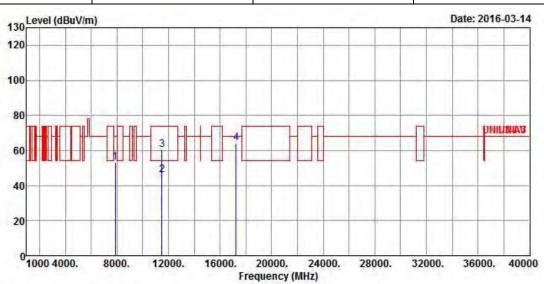
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	5755					
$N_{TX}$	3	Polarization	Н					

Report No.: FR411403-25AN



	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7881.000	53.22	-14.98	68.20	43.39	36.96	5.79	32.92	Peak
2	11510.000	46.25	-7.75	54.00	32.73	39.20	6.78	32.46	Average
3	11510.000	60.42	-13.58	74.00	46.90	39.20	6.78	32.46	Peak
4	17265.000	64.12	-4.08	68.20	45.19	41.98	8.50	31.55	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

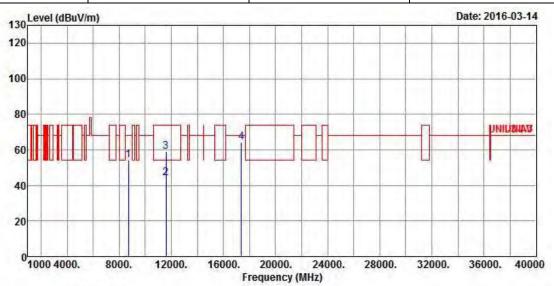
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	5795					
$N_{TX}$	3	Polarization	V					

Report No.: FR411403-25AN



7	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
	8736.000	54.18	-14.02	68.20	43.35	37.75	6.10	33.02	Peak
	11590.000	44.21	-9.79	54.00	30.58	39.23	6.87	32.47	Average
	11590.000	58.90	-15.10	74.00	45.27	39.23	6.87	32.47	Peak
	17385.000	64.47	-3.73	68.20	44.73	42.89	8.44	31.59	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

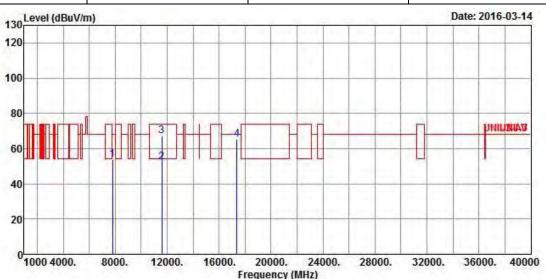
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FAX: 886-3-327-0973

1 2 3

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	5795				
N <sub>TX</sub>	3	Polarization	Н				

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	Freq	Level		Limit Line				And the second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7805.000	53.49	-14.71	68.20	43.77	36.86	5.77	32.91	Peak
2	11590.000	52.33	-1.67	54.00	38.70	39.23	6.87	32.47	Average
3	11590.000	66.96	-7.04	74.00	53.33	39.23	6.87	32.47	Peak
4	17385.000	65.06	-3.14	68.20	45.32	42.89	8.44	31.59	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

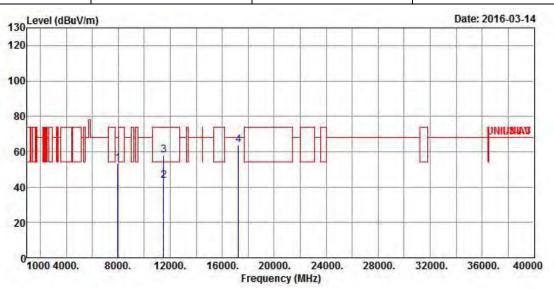
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5745					
N <sub>TX</sub>	3	Polarization	V					



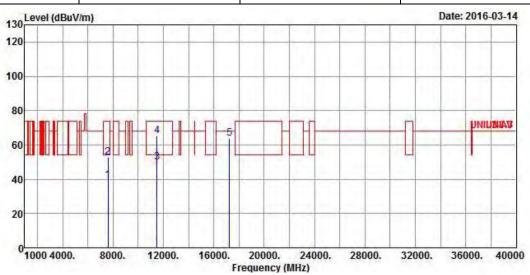
	Freq	Level				Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7961.000	53.18	-15.02	68.20	43.26	37.04	5.81	32.93	Peak
2	11490.000	43.60	-10.40	54.00	30.10	39.18	6.78	32.46	Average
3	11490.000	57.86	-16.14	74.00	44.36	39.18	6.78	32.46	Peak
4	17235.000	64.04	-4.16	68.20	45.33	41.72	8.53	31.54	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT20	Test Freq. (MHz)	5745					
N <sub>TX</sub>	3	Polarization	Н					

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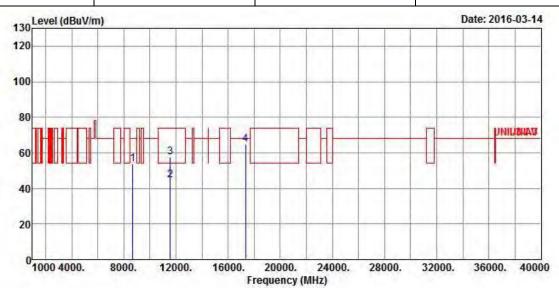
	Freq	Level	Over Limit	Limit Line		Antenna Factor		A STATE OF THE STA	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_
1	7601.000	39.24	-14.76	54.00	29.78	36.62	5.72	32.88	Average
2	7601.000	52.97	-21.03	74.00	43.51	36.62	5.72	32.88	Peak
3	11490.000	50.09	-3.91	54.00	36.59	39.18	6.78	32.46	Average
4	11490.000	65.39	-8.61	74.00	51.89	39.18	6.78	32.46	Peak
5	17235.000	63.68	-4.52	68.20	44.97	41.72	8.53	31.54	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5785				
N <sub>TX</sub>	3	Polarization	V				

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	Freq	Level	-	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8673.000	53.81	-14.39	68.20	42.98	37.73	6.10	33.00	Peak
2	11570.000	44.44	-9.56	54.00	30.84	39.23	6.84	32.47	Average
3	11570.000	57.78	-16.22	74.00	44.18	39.23	6.84	32.47	Peak
4	17355.000	64.58	-3.62	68.20	45.06	42.63	8.46	31.57	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

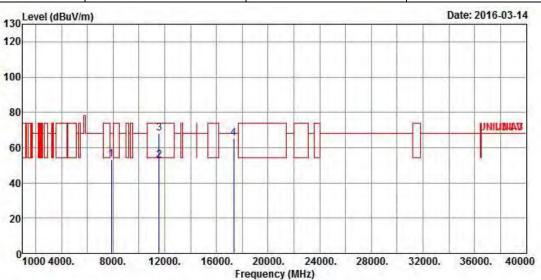
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5785					
$N_{TX}$	3	Polarization	Н					

Report No.: FR411403-25AN



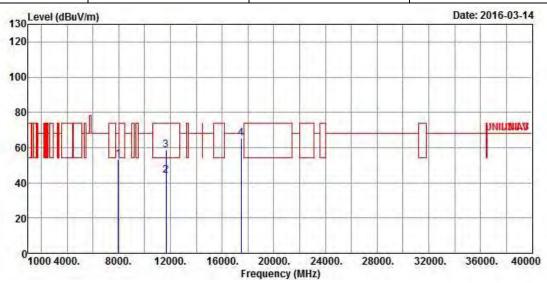
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7884.000	53.22	-14.98	68.20	43.38	36.96	5.80	32.92	Peak
2	11570.000	52.92	-1.08	54.00	39.32	39.23	6.84	32.47	Average
3	11570.000	68.10	-5.90	74.00	54.50	39.23	6.84	32.47	Peak
4	17355.000	65.45	-2.75	68.20	45.93	42.63	8.46	31.57	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5825				
N <sub>TX</sub>	3	Polarization	V				

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	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7983.000	53.21	-14.99	68.20	43.25	37.08	5.82	32.94	Peak
2	11650.000	44.28	-9.72	54.00	30.60	39.26	6.90	32.48	Average
3	11650.000	58.73	-15.27	74.00	45.05	39.26	6.90	32.48	Peak
4	17475.000	65.16	-3.04	68.20	44.83	43.54	8.40	31.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

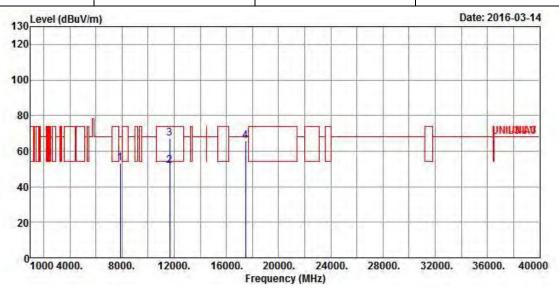
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT20	Test Freq. (MHz)	5825				
N <sub>TX</sub>	3	Polarization	Н				

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		4				Antenna			
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	=
1	7869.000	53.06	-15.14	68.20	43.25	36.94	5.79	32.92	Peak
2	11650.000	51.83	-2.17	54.00	38.15	39.26	6.90	32.48	Average
3	11650.000	66.96	-7.04	74.00	53.28	39.26	6.90	32.48	Peak
4	17475.000	65.96	-2.24	68.20	45.63	43.54	8.40	31.61	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

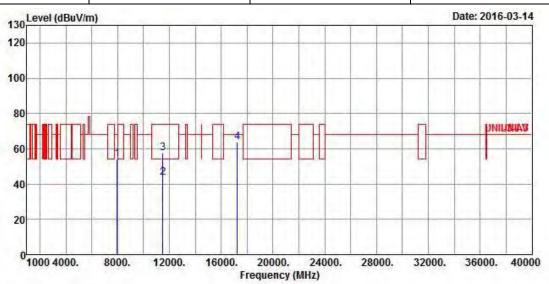
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	Modulation Mode VHT40 Test Freq. (MHz) 5755						
N <sub>TX</sub>	3	Polarization	V				



			Over	Limit	ReadA	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7976.000	54.28	-13.92	68.20	44.34	37.06	5.82	32.94	Peak
2	11510.000	43.83	-10.17	54.00	30.31	39.20	6.78	32.46	Average
3	11510.000	57.40	-16.60	74.00	43.88	39.20	6.78	32.46	Peak
4	17265.000	63.84	-4.36	68.20	44.91	41.98	8.50	31.55	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

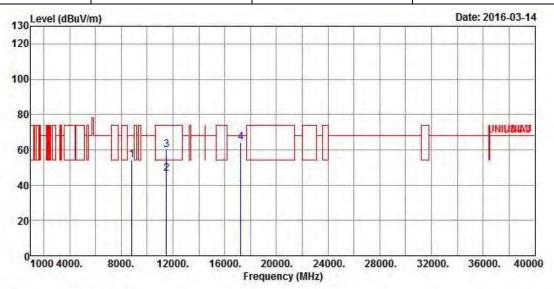
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT40	Test Freq. (MHz)	5755				
N <sub>TX</sub>	3	Polarization	Н				



Freq	Level							Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
8827.000	54.31	-13.89	68.20	43.51	37.76	6.09	33.05	Peak
11510.000	46.34	-7.66	54.00	32.82	39.20	6.78	32.46	Average
11510.000	59.98	-14.02	74.00	46.46	39.20	6.78	32.46	Peak
17265.000	64.23	-3.97	68.20	45.30	41.98	8.50	31.55	Peak
	MHz 8827.000 11510.000 11510.000	MHz dBuV/m 8827.000 54.31 11510.000 46.34 11510.000 59.98	Freq Level Limit  MHz dBuV/m dB  8827.000 54.31 -13.89 11510.000 46.34 -7.66 11510.000 59.98 -14.02	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  8827.000 54.31 -13.89 68.20 11510.000 46.34 -7.66 54.00 11510.000 59.98 -14.02 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  8827.000 54.31 -13.89 68.20 43.51 11510.000 46.34 -7.66 54.00 32.82 11510.000 59.98 -14.02 74.00 46.46	Freq Level Limit Line Level Factor  MHz dBuV/m dB dBuV/m dBuV dB/m  8827.000 54.31 -13.89 68.20 43.51 37.76 11510.000 46.34 -7.66 54.00 32.82 39.20 11510.000 59.98 -14.02 74.00 46.46 39.20	Freq Level Limit Line Level Factor Loss    MHz   dBuV/m   dB   dBuV/m   dBuV   dB/m   dB	Freq         Level         Limit         Line         Level         Factor         Loss         Factor           MHz         dBuV/m         dB dBuV/m         dBuV         dB/m         dB         dB           8827.000         54.31         -13.89         68.20         43.51         37.76         6.09         33.05           11510.000         46.34         -7.66         54.00         32.82         39.20         6.78         32.46           11510.000         59.98         -14.02         74.00         46.46         39.20         6.78         32.46

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

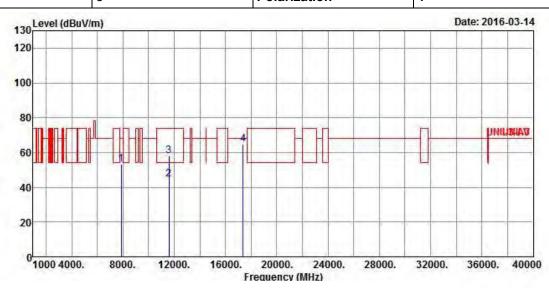
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT40	Test Freq. (MHz)	5795					
N <sub>TY</sub>	3	Polarization	V					

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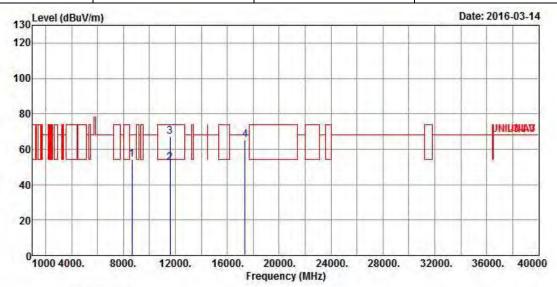
							Acres and a second	
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
7879.000	53.09	-15.11	68.20	43.26	36.96	5.79	32.92	Peak
11590.000	44.49	-9.51	54.00	30.86	39.23	6.87	32.47	Average
11590.000	58.07	-15.93	74.00	44.44	39.23	6.87	32.47	Peak
17385.000	64.64	-3.56	68.20	44.90	42.89	8.44	31.59	Peak
	7879.000 11590.000 11590.000	MHz dBuV/m 7879.000 53.09 11590.000 44.49 11590.000 58.07	Freq Level Limit  MHz dBuV/m dB  7879.000 53.09 -15.11 11590.000 44.49 -9.51 11590.000 58.07 -15.93	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  7879.000 53.09 -15.11 68.20 11590.000 44.49 -9.51 54.00 11590.000 58.07 -15.93 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  7879.000 53.09 -15.11 68.20 43.26 11590.000 44.49 -9.51 54.00 30.86 11590.000 58.07 -15.93 74.00 44.44	Freq Level Limit Line Level Factor  MHz dBuV/m dB dBuV/m dBuV dB/m  7879.000 53.09 -15.11 68.20 43.26 36.96 11590.000 44.49 -9.51 54.00 30.86 39.23 11590.000 58.07 -15.93 74.00 44.44 39.23	Freq Level Limit Line Level Factor Loss  MHz dBuV/m dB dBuV/m dBuV dB/m dB  7879.000 53.09 -15.11 68.20 43.26 36.96 5.79 11590.000 44.49 -9.51 54.00 30.86 39.23 6.87 11590.000 58.07 -15.93 74.00 44.44 39.23 6.87	7879.000 53.09 -15.11 68.20 43.26 36.96 5.79 32.92 11590.000 44.49 -9.51 54.00 30.86 39.23 6.87 32.47 11590.000 58.07 -15.93 74.00 44.44 39.23 6.87 32.47

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT40	Test Freq. (MHz)	5795					
N <sub>TX</sub>	3	Polarization	Н					

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		The second second	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8649.000	54.38	-13.82	68.20	43.54	37.73	6.10	32.99	Peak
2	11590.000	52.12	-1.88	54.00	38.49	39.23	6.87	32.47	Average
3	11590.000	67.36	-6.64	74.00	53.73	39.23	6.87	32.47	Peak
4	17385.000	65.19	-3.01	68.20	45.45	42.89	8.44	31.59	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

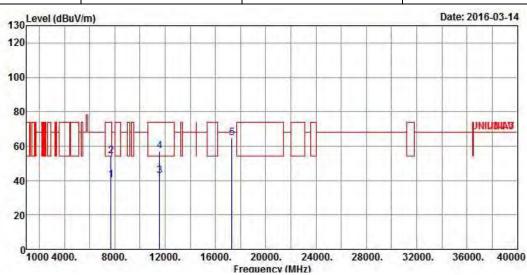
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT80	Test Freq. (MHz)	5775						
N <sub>TX</sub>	3	Polarization	V						

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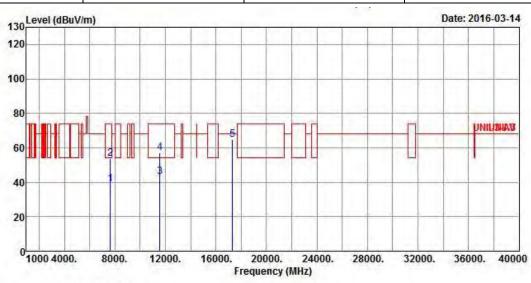
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	7705.000	40.12	-13.88	54.00	30.52	36.74	5.75	32.89	Average	
2	7705.000	54.10	-19.90	74.00	44.50	36.74	5.75	32.89	Peak	
3	11550.000	42.76	-11.24	54.00	29.17	39.22	6.84	32.47	Average	
4	11550.000	57.12	-16.88	74.00	43.53	39.22	6.84	32.47	Peak	
5	17325.000	64.86	-3.34	68.20	45.59	42.37	8.46	31.56	Peak	

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT80	Test Freq. (MHz)	5775						
N <sub>TX</sub>	3	Polarization	Н						



	Freq	Level				Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7628.000	38.96	-15.04	54.00	29.45	36.66	5.73	32.88	Average
2	7628.000	53.70	-20.30	74.00	44.19	36.66	5.73	32.88	Peak
3	11550.000	43.07	-10.93	54.00	29.48	39.22	6.84	32.47	Average
4	11550.000	57.19	-16.81	74.00	43.60	39.22	6.84	32.47	Peak
5	17325.000	64.58	-3.62	68.20	45.31	42.37	8.46	31.56	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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## 3.7 Frequency Stability

### 3.7.1 Frequency Stability Limit

	Frequency Stability Limit						
UN	UNII Devices						
$\boxtimes$	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.						
IEE	IEEE Std. 802.11n-2009						
$\boxtimes$	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band.						

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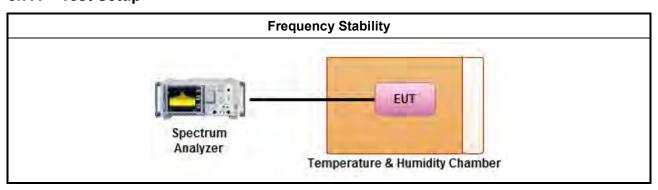
### 3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.7.3 Test Procedures

		Test Method
$\boxtimes$	Refe	r as ANSI C63.10, clause 6.8 for frequency stability tests
	$\boxtimes$	Frequency stability with respect to ambient temperature
	$\boxtimes$	Frequency stability when varying supply voltage
$\boxtimes$	For o	conducted measurement.
	$\boxtimes$	For conducted measurements on devices with multiple transmit chains:  Measurements need only to be performed on one of the active transmit chains (antenna outputs)
		radiated measurement. The equipment to be measured and the test antenna shall be oriented to in the maximum emitted power level.

### 3.7.4 Test Setup



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3.7.5 Test Result of Frequency Stability

	Frequency Stability Result									
Mode Frequency Stability (ppm)										
Condition	Freq. (MHz)	Test Frequency (MHz)					Frequency S	tability (ppm)		
Condition	rieq. (Minz)	0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
T20°CVmax	5745	5744.98698	5744.98437	5744.98394	5744.98220	-2.2663	-2.7206	-2.7955	-3.0983	
T20°CVmin	5745	5744.98437	5744.98394	5744.98220	5744.98003	-2.7206	-2.7955	-3.0983	-3.4761	
T50°CVnom	5745	5744.96961	5744.96961	5744.97048	5744.97048	-5.2898	-5.2898	-5.1384	-5.1384	
T40°CVnom	5745	5744.96831	5744.96831	5744.96700	5744.96700	-5.5161	-5.5161	-5.7441	-5.7441	
T30°CVnom	5745	5744.97916	5744.97786	5744.97482	5744.97308	-3.6275	-3.8538	-4.3829	-4.6858	
T20°CVnom	5745	5744.98828	5744.98698	5744.98437	5744.98394	-2.0400	-2.2663	-2.7206	-2.7955	
T10°CVnom	5745	5744.99219	5744.99219	5744.99219	5744.99132	-1.3594	-1.3594	-1.3594	-1.5109	
T0°CVnom	5745	5744.99696	5744.99653	5744.99653	5744.99609	-0.5292	-0.6040	-0.6040	-0.6806	
T-10°CVnom	5745	5744.99870	5744.99870	5744.99783	5744.99783	-0.2263	-0.2263	-0.3777	-0.3777	
T-20°CVnom	5745	5745.00260	5745.00217	5745.00130	5744.99913	0.4526	0.3777	0.2263	-0.1514	
Limit	(ppm)			-			±	20		
Res	sult				Com	plied				

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Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.6 for EUT operational condition.

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# 4 Test Equipment and Calibration Data

AC Power-line Conducted Emissions (Mode 1 ~ Mode 3)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2014	Mar. 25, 2015
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2014	Jan. 20, 2015
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	Oct. 31, 2014	Oct. 30, 2015
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A

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AC Power-line Conducted Emissions (Mode 4)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Apr. 15. 2015	Apr. 14. 2016
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 22, 2015	Jan. 21, 2016
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	Oct. 31, 2014	Oct. 30, 2015
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A

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#### For 5150-5250 MHz <RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz ~ 40GHz	Jan. 25, 2014	Jan. 24, 2015
Spectrum Analyzer	Agilent	N9030A	MY52350707	3Hz ~ 26.5GHz	Jan. 25, 2014	Jan. 24, 2015
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	Jun. 26, 2014
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 16, 2013	Jul. 15, 2014
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	-20 ~ 100°C	Nov. 21, 2013	Nov. 20, 2014
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345673/4	30MHz ~ 26.5GHz	Dec. 02, 2013	Dec. 01, 2014
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_103	10715/4 10716/4	30MHz ~ 26.5GHz	Dec. 02, 2013	Dec. 01, 2014

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Radiated Emission(Below 1GHz) Mode 1 ~ Mode 3

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 30, 2013	Nov. 29, 2014
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 05, 2014	May 04, 2015
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Mar. 26, 2015
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 20, 2014	Sep. 19, 2015
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 15, 2014	Nov. 14, 2015
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	N/A
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	N/A

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	Dec. 02, 2012	Dec. 01, 2014

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Radiated Emission(Below 1GHz) Mode 4

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 29, 2014	Nov. 28, 2015
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Apr. 02, 2015	Apr. 01, 2016
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	May 10, 2016
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 18, 2015	Sep. 17, 2016
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 15, 2014	Nov. 14, 2015
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	N/A
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	N/A

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	Nov. 10, 2014	Nov. 09, 2016

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#### For 5725~5850 MHz <RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9KHz~40GHz	May 06, 2015	May 05, 2016
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-00 1	-20 ~ 100°C	Jun. 12, 2015	Jun. 11, 2016
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jul. 28, 2015	Jul. 27, 2016
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	Jan. 29, 2015	Jan. 28, 2016
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	Jan. 29, 2015	Jan. 28, 2016
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jun. 25, 2015	Jun. 24, 2016

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#### <Radiation Emissions >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 28, 2015	Nov. 27, 2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	Dec. 16, 2015	Dec. 15, 2016
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	May 10, 2016
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Sep. 02, 2015	Sep. 01, 2016
Spectrum	R&S	FSV40	101513	9kHz ~ 40GHz	Feb. 16, 2016	Feb. 15, 2017
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 18, 2015	Sep. 17, 2016
Horn Antenna	ETS · LINDGREN	3115	6741	1GHz ~ 18GHz	Jul. 15, 2015	Jul. 14, 2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz ~ 40GHz	Jan. 29, 2016	Jan. 28, 2017

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	Nov.16, 2015	Nov.15, 2017

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