

Report No.: FR430452-03AN

# **FCC Test Report**

Equipment	:	Set-Top	Box
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**Brand Name** : CISCO

Model No. : IPV50xy, IPV60xy

(X=5, Y can be 0, 3, 5, 6)

**FCC ID** : VUI-IPV5050WIFI

**Standard** : 47 CFR FCC Part 15.407

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

> 5250 MHz - 5350 MHz 5470 MHz - 5725 MHz 5725 MHz - 5850 MHz

FCC Classification: UNII

**Applicant** PEGATRON CORPORATION

5F., NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI

CITY 112, Taiwan

Manufacturer : Maintek Computer (Suzhou) Co., Ltd

233 Jin Feng Rd New District Suzhou Jiangsul 215011

**Function** : ☐ Outdoor AP; ☐ Indoor AP; ☐ Fixed P2P AP

Portable Client; Client Without Radar Detection

The product sample received on Mar. 05, 2014 and completely tested on Aug. 03, 2015. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

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 full.

Reviewed by:

1190

Vic Hsiao / Supervisor

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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			
0	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**

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: Rev. 02

Report No.	Version	Description	Issued Date
FR430452-03AN	Rev. 02	Initial issue of report	Aug. 28, 2015

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**General Description** 1

#### Information 1.1

#### **RF General Information** 1.1.1

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	
5150-5250	а	5180-5240	36-48 [4]	2	22.13	
5250-5350		5260-5320	52-64 [4]	2	21.52	
5470-5725		5500-5700	100-140 [8]	2	21.19	
5725-5850		5745-5825	149-165 [5]	2	24.23	
5150-5250	n (HT20)	5180-5240	36-48 [4]	2	22.11	
5250-5350		5260-5320	52-64 [4]	2	21.76	
5470-5725		5500-5700	100-140 [8]	2	21.38	
5725-5850		5745-5825	149-165 [5]	2	24.15	
5150-5250	n (HT40)	5190-5230	38-46 [2]	2	23.75	
5250-5350		5270-5310	54-62 [2]	2	22.57	
5470-5725		5510-5670	102-134 [3]	2	22.49	
5725-5850		5755-5795	151-159 [2]	2	23.75	

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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.

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# 1.1.2 Antenna Information

	Antenna Category				
$\boxtimes$	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.				

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	Antenna General Information					
Ant. Cat.	Ant. Type	Ant. Port	Gain <sub>(dBi)</sub>	Remark		
Integral PCB	1	1.62	TX/RX			
	PCB	2	1.66	TX/RX		
		3	1.66	RX		
		4	1.69	RX		

# 1.1.3 Type of EUT

	<b>7.</b>				
	Identify EUT				
EU	T Serial Number	N/A			
Pre	sentation of Equipment				
		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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# 1.1.4 Test Signal Duty Cycle

	Operated Mode for Worst Duty Cycle				
	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			
$\boxtimes$	100% - IEEE 802.11n (HT20)	0			
$\boxtimes$	100% - IEEE 802.11n (HT40)	0			

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# 1.1.5 EUT Operational Condition

Supply Voltage		☐ DC	
Type of DC Source	☐ Internal DC supply		☐ From Host System
Test Voltage			
Test Climatic			☐ Tmin (-20°C)

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#### **Accessories and Support Equipment** 1.2

Accessories Information					
AC Adoptor 1	Brand Name	I.T.E	Model Name	ML18-A120150-A1	
AC Adapter 1	Power Rating	I/P: 100-120V~ 50/60Hz 0.6A; O/P: 12V===1.5A			
AC Adoptor 2	Brand Name	Chicony	Model Name	W13-018N1A	
AC Adapter 2	Power Rating	I/P: 100-120V~ 6	0Hz 0.5A ; O/P:	12V <b></b> 1.5A	

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

Support Equipment - AC Conduction						
No.	Equipment	Brand Name	Model Name	FCC ID		
1	Notebook	DELL	E5520	DoC		

	Support Equipment - RF Conducted							
No.	. Equipment Brand Name Model Name FCC ID							
1	Notebook	DELL	E5500	DoC				

Support Equipment - Radiated Emission								
No.	No. Equipment Brand Name Model Name FCC ID							
1	Notebook (Remote)	DELL	E5530	DoC				

#### 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
- FCC KDB 789033 D02 v01
- FCC KDB 644545 D03 v01
- FCC KDB 662911 v02r01
- FCC-14-30A1-UNII

#### **Testing Location Information** 1.4

	Testing Location								
$\boxtimes$	HWA YA	ADD :		No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.					
		TEL :	886-3-327-3456 FAX	( : 886-3-327-0973					
Test Condition Test Site No. Test Engineer Test Environme									
	AC Condu	ction	CO04-HY	Zeus	21°C / 59%				
	RF Condu	cted	TH01-HY	lan	24.1°C / 64%				
ı	Radiated Emission (Below 1GHz)		03CH03-HY	Allen	21.4°C / 54%				
Radiated Emission (Above 1GHz)			03CH03-HY	Hunter	24°C / 60%				

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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		±1.4 %				
RF output power, conducted		±0.6 dB				
Power density, conducted		±0.8 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	±0.7 dB				
	18 – 40 GHz	±0.8 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 °C				
Humidity		±3 %				
DC and low frequency voltages		±3 %				
Time		±1.4 %				
Duty Cycle		±1.4 %				

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2 Test Configuration of EUT

# 2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing								
Modulation Mode Transmit Chains (N <sub>TX</sub> ) Data Rate / MCS Worst Data Rate / MC								
11a	2	6-54Mbps	6 Mbps					
HT20	2	MCS 0-15	MCS 0					
HT40	2	MCS 0-15	MCS 0					

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# 2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Test Software Version		PuTTY					
		Test Frequency (MHz)					
<b>Modulation Mode</b>	N <sub>TX</sub>	NCB: 20MHz		NCB: 40MHz			
		5180	5200	5240	5190	5230	
11a	2	20	20	20	-	-	
HT20	2	18	19	20	-	-	
HT40	2	-	-	-	16	22	

The Worst Case Power Setting Parameter (5250-5350MHz band)							
Test Software Version				PuTTY			
			Test Frequency (MHz)				
Modulation Mode	N <sub>TX</sub>		NCB: 20MHz			NCB: 40MHz	
		5260	5300	5320	5270	5310	
11a	2	20	20	20	-	-	
HT20	2	20	20	17	-	-	
HT40	2	-	-	-	21	16	

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The Worst Case Power Setting Parameter (5470-5725MHz band)							
<b>Test Software Version</b>				PuTT	Y		
		Test Frequency (MHz)					
<b>Modulation Mode</b>	N <sub>TX</sub>	NCB: 20MHz		NCB: 40MHz			
		5500	5580	5700	5510	5550	5670
11a	2	20	20	19	-	-	-
HT20	2	18	20	18	-	-	-
HT40	2	-	-	-	16	21	21

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The Worst Case Power Setting Parameter (5725-5850MHz band)							
Test Software Version		PuTTY					
		Test Frequency (MHz)					
<b>Modulation Mode</b>	$N_{TX}$	NCB: 20MHz		NCB: 40MHz			
		5745	5785	5825	5755	5795	
11a	2	21	22	22	-	-	
HT20	2	20	22	22	-	-	
HT40	2	-	-	-	18	22	

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# 2.3 The Worst Case Measurement Configuration

Th	e Worst Case Mode for Fo	ollowing Conformance Tes	sts		
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	on			
1	AC Mode & Radio link (Ad	apter 1)			
2	AC Mode & Radio link (Ad	apter 2)			
The operating mode 2 is	the worst case and it was	record in this test report.			
	☐ EUT will be placed in	fixed position.			
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is Y Plane.				
	EUT will be a hand-he operating multiple pos	eld or body-worn battery-pov sitions.	wered devices and		
	X Plane Y Plane Z Plane				
Orthogonal Planes of EUT					

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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			

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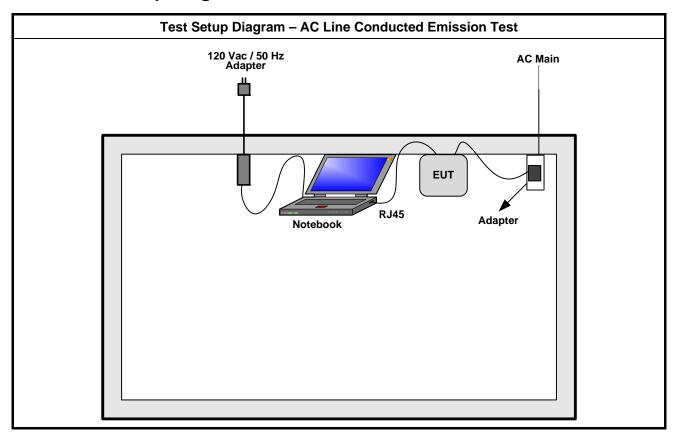
Th	e Worst Case Mode for Fo	ollowing Conformance Tes	sts			
Tests Item		Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions				
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.					
	☐ EUT will be placed in	fixed position.				
User Position	· ·	mobile position and operation ee orthogonal planes. The	•			
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.					
Operating Mode < 1GHz	Operating Mode Description	on				
1	AC Mode & Radio link (Ad	apter 1)				
2	AC Mode & Radio link (Ad	apter 2)				
The operating mode 2 is	the worst case and it was	record in this test report.				
Operating Mode > 1GHz	Operating Mode Description	on				
2	AC Mode & Radio link (Ad	apter 2)				
Modulation Mode	11a, HT20, HT40					
	X Plane Y Plane Z Plane					
Orthogonal Planes of EUT	rthogonal Planes of					

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2.4 Test Setup Diagram

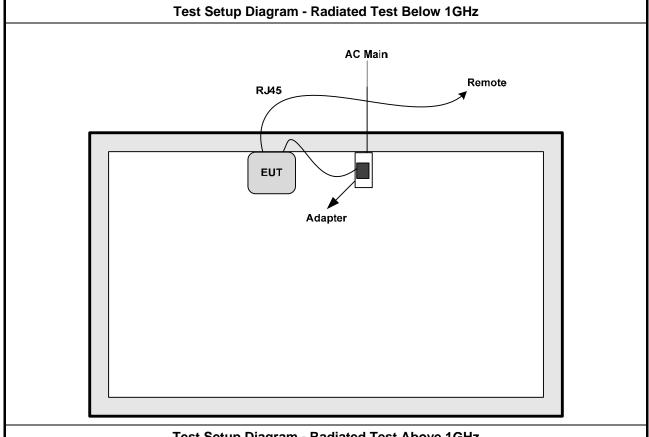


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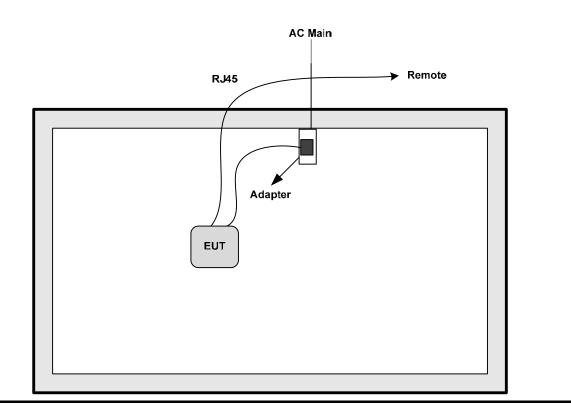
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**Test Setup Diagram - Radiated Test Above 1GHz** 



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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 Power-line Conducted Emissions Limit						
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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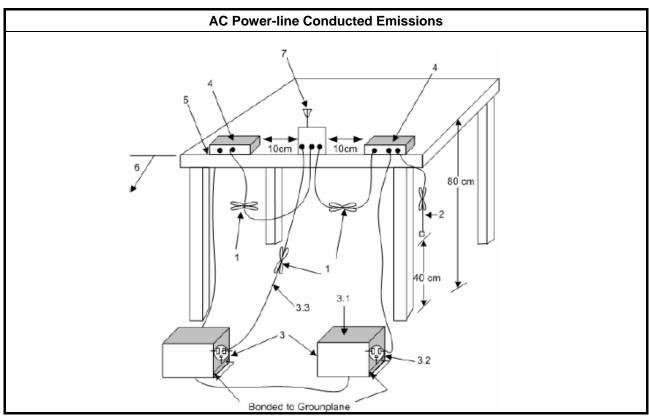
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

	Test Method
$\boxtimes$	Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

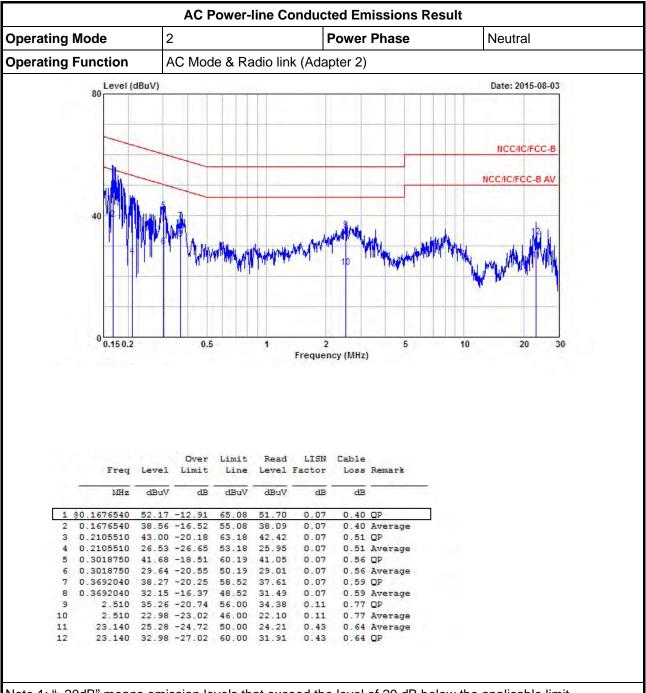
## 3.1.4 Test Setup



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#### 3.1.5 Test Result of AC Power-line Conducted Emissions



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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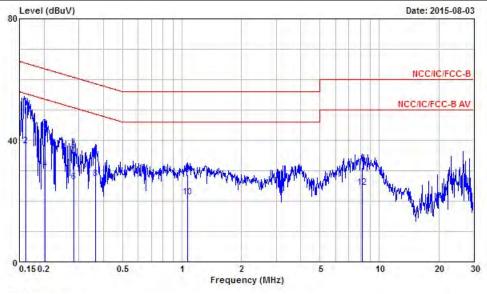
AC Power-line Conducted Emissions Result

Operating Mode 2 Power Phase Line

Operating Function AC Mode & Radio link (Adapter 2)

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	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.1615500	51.06	-14.32	65.38	50.63	0.05	0.38	QP
2	0.1615500	38.25	-17.13	55.38	37.82	0.05	0.38	Average
3	0.2018130	43.85	-19.69	63.54	43.29	0.06	0.50	QP
4	0.2018130	30.56	-22.98	53.54	30.00	0.06	0.50	Average
5	0.2832790	36.58	-24.14	60.72	35.97	0.06	0.55	QP
6	0.2832790	26.24	-24.48	50.72	25.63	0.06	0.55	Average
7	0.3653120	34.36	-24.25	58.61	33.70	0.07	0.59	QP
8	0.3653120	27.28	-21.33	48.61	26.62	0.07	0.59	Average
9	1.070	28.74	-27.26	56.00	27.86	0.08	0.80	QP
10	1.070	21.23	-24.77	46.00	20.35	0.08	0.80	Average
11	8.190	31.13	-28.87	60.00	30.14	0.21	0.78	QP
12	8.190	24.40	-25.60	50.00	23.41	0.21	0.78	Average

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	JNII Devices						
$\boxtimes$	For the 5.15-5.25 GHz band, N/A						
$\boxtimes$	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.						
$\boxtimes$	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

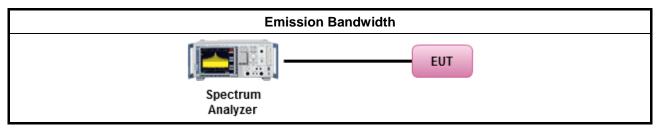
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

	Test Method										
$\boxtimes$	For	r the emission bandwidth shall be measured using one of the options below:									
	$\boxtimes$	Refe	er as FCC KDB 789033 D02 v01, clause C for EBW and clause D for OBW measurement.								
		Refe	er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.								
		Refe	er as IC RSS-Gen, clause 4.6 for bandwidth testing.								
$\boxtimes$	For	cond	ucted measurement.								
		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 transmit chains (antenna outputs). All measurement had be performed on transmit c										
		$\boxtimes$	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

UNII Emission Bandwidth Result (5150-5250MHz band)									
Condit	ion			Emission Ba	ndwidth (MHz)				
Modulation Mode	N <sub>TX</sub>	Freq.	99% Ba	ndwidth	26dB Ba	ındwidth			
Modulation Mode	IVIX	(MHz)	Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2			
11a	2	5180	16.74	16.79	22.77	21.95			
11a	2	5200	16.69	16.99	22.95	23.30			
11a	2	5240	16.79	16.76	23.12	22.27			
HT20	2	5180	17.86	17.89	22.10	22.02			
HT20	2	5200	17.84	18.11	24.25	24.90			
HT20	2	5240	18.34	18.26	24.75	24.35			
HT40	2	5190	36.50	36.58	43.80	43.80			
HT40	2	5230	36.62	36.86	45.96	46.84			
Resu	lt			Com	plied				

UNII Emission Bandwidth Result (5250-5350MHz band)									
Condit	ion			Emission Bandwidth (MHz)					
Medulation Made	N	Freq.	99% Ba	ndwidth	26dB Ba	ındwidth			
Modulation Mode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2			
11a	2	5260	17.11	17.06	23.90	24.30			
11a	2	5300	16.71	16.79	21.00	21.07			
11a	2	5320	16.54	17.01	21.30	24.97			
HT20	2	5260	18.24	18.06	23.82	25.55			
HT20	2	5300	18.09	18.14	24.22	22.77			
HT20	2	5320	17.96	17.96	23.92	23.05			
HT40	2	5270	36.50	36.66	44.52	47.52			
HT40	2	5310	36.66	36.74	43.40	43.72			
Result				Com	plied				

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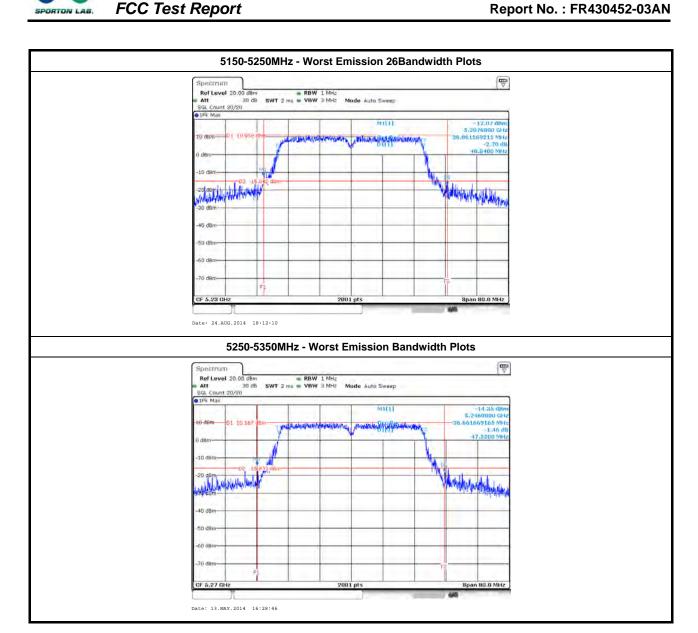


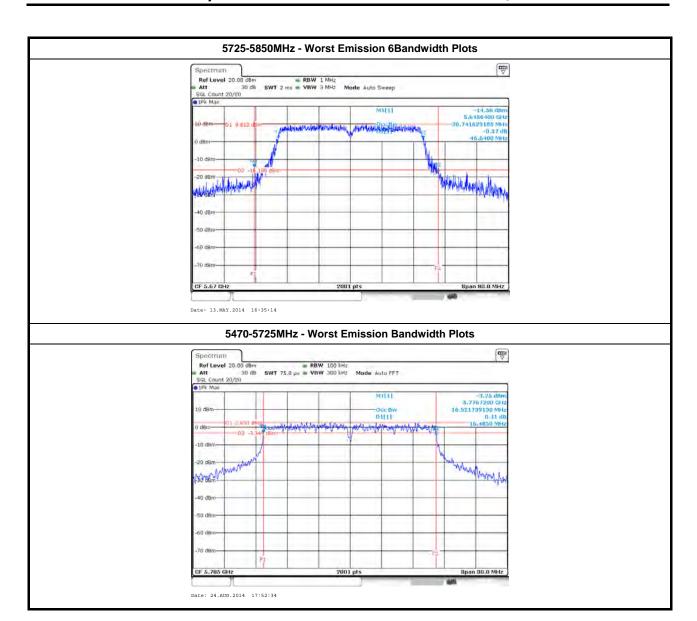
UNII Emission Bandwidth Result (5470-5725MHz band)									
Condit	ion			Emission Bandwidth (MHz)					
Madulation Mada	N.	Freq.	99% Ba	ındwidth	26dB Ba	ındwidth			
Modulation Mode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2			
11a	2	5500	17.09	17.09	21.97	21.75			
11a	2	5580	16.99	16.81	21.17	21.45			
11a	2	5700	16.91	16.84	21.75	23.27			
HT20	2	5500	18.01	17.89	23.82	21.82			
HT20	2	5580	17.74	17.84	23.40	21.00			
HT20	2	5700	17.89	18.26	23.47	23.65			
HT40	2	5510	36.50	36.66	43.44	43.60			
HT40	2	5550	36.54	36.66	44.60	45.96			
HT40	2	5670	36.58	36.74	45.40	46.64			
Resu	lt			Com	plied				

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UNII Emission Bandwidth Result (5725-5850MHz band)									
Conditi	ion			Emission Bar	ndwidth (MHz)				
Madulation Mada		Freq.	99% Ba	ndwidth	6dB Ba	ndwidth			
Modulation Mode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2			
11a	2	5745	16.62	16.50	16.51	16.54			
11a	2	5785	16.52	16.55	16.48	16.48			
11a	2	5825	16.52	16.53	16.54	16.54			
HT20	2	5745	17.73	17.84	17.56	17.80			
HT20	2	5785	17.70	17.73	17.76	17.73			
HT20	2	5825	17.76	17.78	17.80	17.73			
HT40	2	5755	36.14	36.18	36.32	36.28			
HT40 2 5795		36.18	36.18 36.22		36.36				
Limit	Limit			-	≥ 500	≥ 500 kHz			
Resu	lt			Com	plied				

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# 3.3 RF Output Power

## 3.3.1 RF Output Power Limit

		Maximum Conducted Output Power Limit
UNI	l De	vices
$\boxtimes$	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]
		Indoor 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)
		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 $P_{Out} = 30 - (G_{TX} - 23)$ .
	$\boxtimes$	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 $P_{Out} = 24 - (G_{TX} - 6)$ .
$\boxtimes$	250	the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then = 24 - ( $G_{TX}$ - 6).
$\boxtimes$	of 25	the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser 50 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then = 24 - ( $G_{TX} - 6$ ).
$\boxtimes$	For	the 5.725-5.85 GHz band:
		Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ .
		Point-to-point systems (P2P): the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W.
		aximum conducted output power in dBm, e maximum transmitting antenna directional gain in dBi.

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# 3.3.2 Measuring Instruments

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

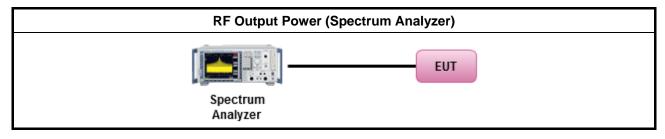
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### 3.3.3 Test Procedures

		Test Method					
$\boxtimes$	Max	rimum Conducted Output Power					
	[dut	y cycle ≥ 98% or external video / power trigger]					
	$\boxtimes$	Refer as FCC KDB 789033 D02 v01, clause E Method SA-1 (spectral trace averaging).					
		Refer as FCC KDB 789033 D02 v01, 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 D02 v01, clause E Method SA-2 (spectral trace averaging).					
		Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)					
	Wideband RF power meter and average over on/off periods with duty factor						
		Refer as FCC KDB 789033 D02 v01, clause E Method PM (using an RF average power meter).					
$\boxtimes$	For	conducted measurement.					
		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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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 Directional Gain for Power Measurement

Directional Gain (DG) Result									
Modulation Mode	N <sub>TX</sub>	N <sub>ss</sub>	Transmit Chains No. 1	Transmit Chains No. 2	DG (dBi)	Array Gain (dB)			
11a	2	1	1.62	1.66	1.64	-			
HT20	2	1	1.62	1.66	1.64	-			
HT40	2	1	1.62	1.66	1.64	-			

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Note: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain =  $10 \log[(10^{G1/20} + ... + 10^{GN/20})^2 / N_{TX}]$  All transmit signals are completely uncorrelated, Directional Gain =  $10 \log[(10^{G1/10} + ... + 10^{GN/10}) / N_{TX}]$ 

# 3.3.6 Test Result of Maximum Conducted Output Power

	Maximum Conducted Output Power (5150-5250MHz band)									
Condition	Condition				RF Output	Power (dBm)				
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power		
11a	2	5180	19.10	19.09	22.11	24.00	1.64	23.75		
11a	2	5200	18.92	19.31	22.13	24.00	1.64	23.77		
11a	2	5240	19.16	19.02	22.10	24.00	1.64	23.74		
HT20	2	5180	16.96	16.95	19.97	24.00	1.64	21.61		
HT20	2	5200	18.00	18.23	21.13	24.00	1.64	22.77		
HT20	2	5240	19.16	19.04	22.11	24.00	1.64	23.75		
HT40	2	5190	14.66	15.00	17.84	24.00	1.64	19.48		
HT40	2	5230	20.54	20.93	23.75	24.00	1.64	25.39		
Result	l			Complied						

Maximum Conducted Output Power (5250-5350MHz band)									
Conditi				RF Output	Power (dBm)				
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	
11a	2	5260	18.43	18.42	21.44	24.00	1.64	23.08	
11a	2	5300	18.56	18.42	21.50	24.00	1.64	23.14	
11a	2	5320	18.53	18.49	21.52	24.00	1.64	23.16	
HT20	2	5260	18.85	18.65	21.76	24.00	1.64	23.40	
HT20	2	5300	18.59	18.54	21.58	24.00	1.64	23.22	
HT20	2	5320	15.92	15.94	18.94	24.00	1.64	20.58	
HT40	2	5270	19.54	19.57	22.57	24.00	1.64	24.21	
HT40	2	5310	14.43	14.66	17.56	24.00	1.64	19.20	
Result				•	Cor	mplied		•	

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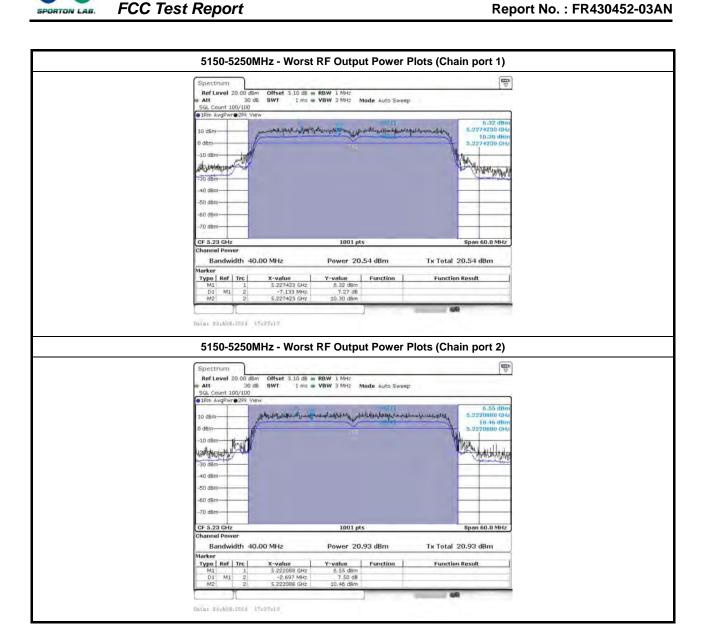


	Maximum Conducted Output Power (5470-5725MHz band)									
Conditi				RF Output	Power (dBm)					
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power		
11a	2	5500	18.19	18.05	21.13	24.00	1.64	22.77		
11a	2	5580	18.16	18.20	21.19	24.00	1.64	22.83		
11a	2	5700	17.22	17.89	20.58	24.00	1.64	22.22		
HT20	2	5500	16.33	16.09	19.22	24.00	1.64	20.86		
HT20	2	5580	18.38	18.35	21.38	24.00	1.64	23.02		
HT20	2	5700	16.57	16.95	19.77	24.00	1.64	21.41		
HT40	2	5510	14.23	14.57	17.41	24.00	1.64	19.05		
HT40	2	5550	19.66	19.30	22.49	24.00	1.64	24.13		
HT40	2	5670	19.43	19.28	22.37	24.00	1.64	24.01		
Resul	Result				Coi	mplied		•		

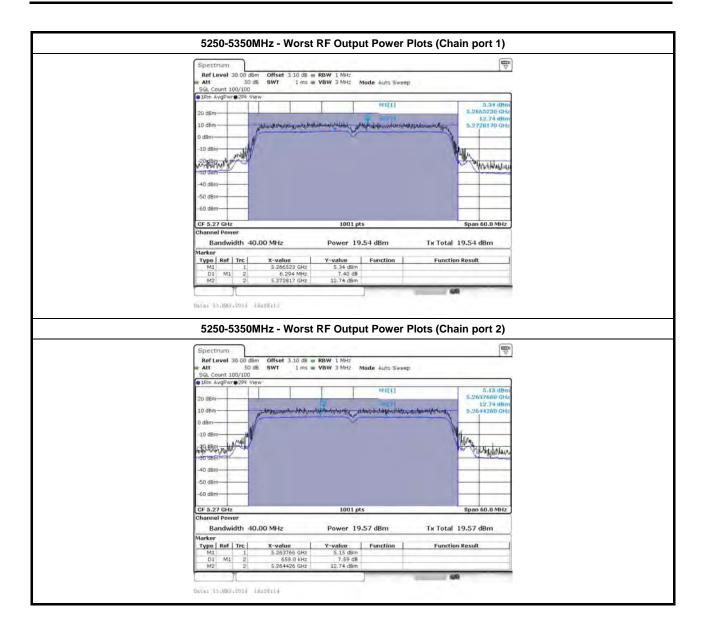
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	Maximum Conducted Output Power (5725-5850MHz band)								
Conditi	on			RF Output Power (dBm)					
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)		
11a	2	5745	19.27	20.31	22.83	30.00	1.64		
11a	2	5785	20.77	21.48	24.15	30.00	1.64		
11a	2	5825	20.88	21.54	24.23	30.00	1.64		
HT20	2	5745	18.59	19.19	21.91	30.00	1.64		
HT20	2	5785	20.56	21.65	24.15	30.00	1.64		
HT20	2	5825	20.49	20.89	23.70	30.00	1.64		
HT40	2	5755	16.16	16.78	19.49	30.00	1.64		
HT40	2	5795	20.31	21.13	23.75	30.00	1.64		
Resul	t				Complied				

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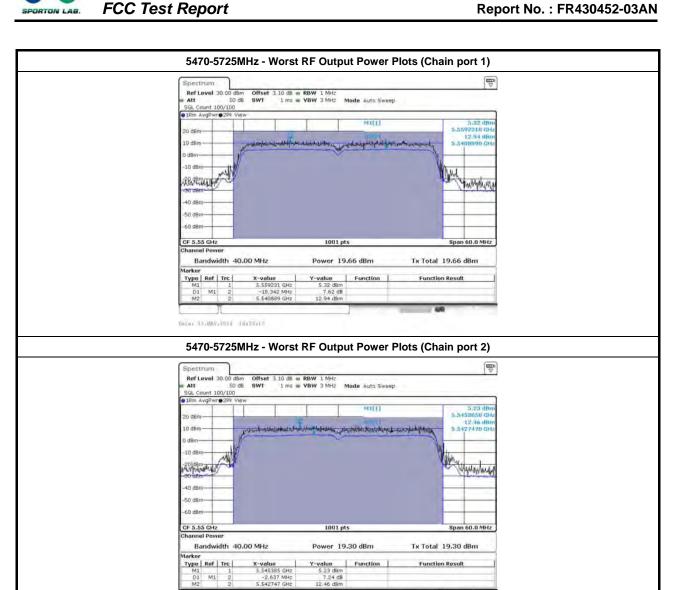


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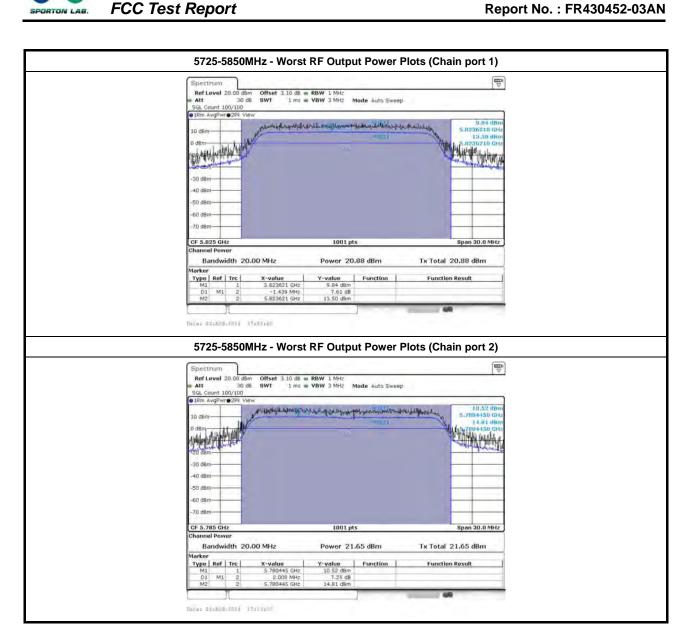
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# 3.4 Peak Power Spectral Density

# 3.4.1 Peak Power Spectral Density Limit

	Peak Power Spectral Density Limit
UNI	I 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. I $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$ .
	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 $-$ ( $G_{TX} - 6$ )
$\boxtimes$	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – ( $G_{TX} - 6$ ).
$\boxtimes$	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – ( $G_{TX} - 6$ ).
$\boxtimes$	For the 5.725-5.85 GHz band:
	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	<b>SD</b> = peak power spectral density that he same method as used to determine the conducted output ver shall be used to determine the power spectral density. And power spectral density in dBm/MHz = the maximum 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.

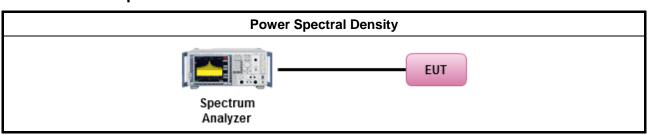
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### 3.4.3 Test Procedures

		Test Method									
$\boxtimes$	outp func	power spectral density procedures that the same method as used to determine the conducted it power shall be used to determine the peak power spectral density and use the peak search on on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density be measured using below options:									
		Refer as FCC KDB 789033 D02 v01, 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]									
	$\boxtimes$	Refer as FCC KDB 789033 D02 v01, clause E Method SA-1 (spectral trace averaging).									
		Refer as FCC KDB 789033 D02 v01, 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 D02 v01, clause E Method SA-2 (spectral trace averaging).									
		Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)									
$\boxtimes$	For	conducted measurement.									
		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 Directional Gain for Power Spectral Density Measurement

Directional Gain (DG) Result									
Modulation Mode	N <sub>TX</sub>	N <sub>SS</sub>	Transmit Chains No. 1	Transmit Chains No. 2	DG (dBi)	Array Gain (dB)			
11a	2	1	1.62	1.66	4.65	3.01			
HT20	2	1	1.62	1.66	4.65	3.01			
HT40	2	1	1.62	1.66	4.65	3.01			

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Note: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain =  $10 \log[(10^{G1/20} + ... + 10^{GN/20})^2 / N_{TX}]$  All transmit signals are completely uncorrelated, Directional Gain =  $10 \log[(10^{G1/10} + ... + 10^{GN/10}) / N_{TX}]$ 

# 3.4.6 Test Result of Peak Power Spectral Density

	Peak Power Spectral Density Result (5150-5250MHz band)								
Condition	on		Peak	Power Spectral Density (dBm	n/MHz)				
Modulation Mode	e N <sub>TX</sub> Freq. (MHz)		PSD (dBm)	PSD Limit	DG (dBi)				
11a	2	5180	10.95	17.00	4.65				
11a	2	5200	10.91	17.00	4.65				
11a	2	5240	10.95	17.00	4.65				
HT20	2	5180	8.56	17.00	4.65				
HT20	2	5200	9.69	17.00	4.65				
HT20	2	5240	10.74	17.00	4.65				
HT40	2	5190	3.46	17.00	4.65				
HT40	2	5230	9.24	17.00	4.65				
Resul	Result			Complied					

	Peak Power Spectral Density Result (5250-5350MHz band)								
Conditi	on		Peak	Peak Power Spectral Density (dBm/MHz)					
Modulation Mode	tion Mode N <sub>TX</sub> Freq. (MHz)		PSD (dBm)	PSD Limit	DG (dBi)				
11a	2	5260	10.14	11.00	4.65				
11a	2	5300	10.26	11.00	4.65				
11a	2	5320	10.32	11.00	4.65				
HT20	2	5260	10.21	11.00	4.65				
HT20	2	5300	10.05	11.00	4.65				
HT20	2	5320	7.39	11.00	4.65				
HT40	2	5270	8.04	11.00	4.65				
HT40	2	5310	3.12	11.00	4.65				
Result			Complied						

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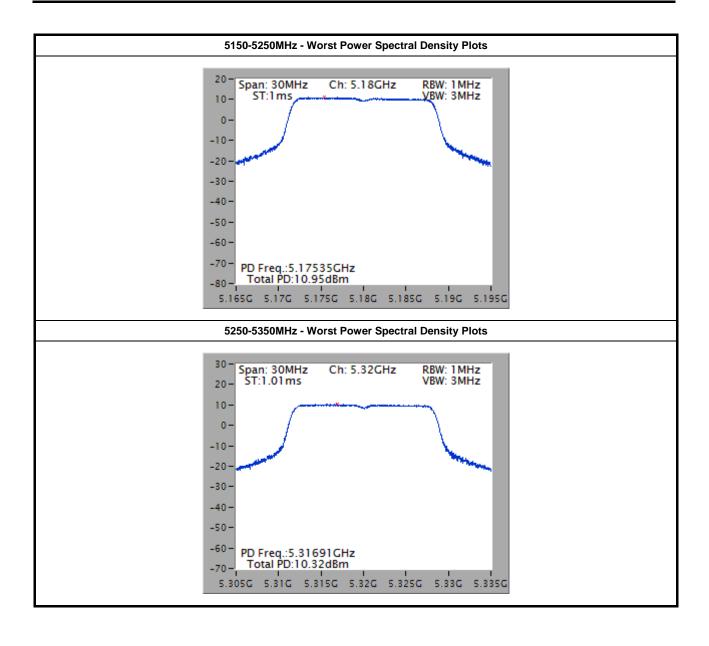
Peak Power Spectral Density Result (5470-5725MHz band)									
Condit	tion		Peak	Peak Power Spectral Density (dBm/MHz)					
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	PSD (dBm)	PSD Limit	DG (dBi)				
11a	2	5500	9.90	11.00	4.65				
11a	2	5580	10.12	11.00	4.65				
11a	2	5700	9.62	11.00	4.65				
HT20	2	5500	7.66	11.00	4.65				
HT20	2	5580	10.02	11.00	4.65				
HT20	2	5700	8.54	11.00	4.65				
HT40	2	5510	2.83	11.00	4.65				
HT40	2	5550	8.02	11.00	4.65				
HT40	2	5670	8.07	11.00	4.65				
Result				Complied	•				

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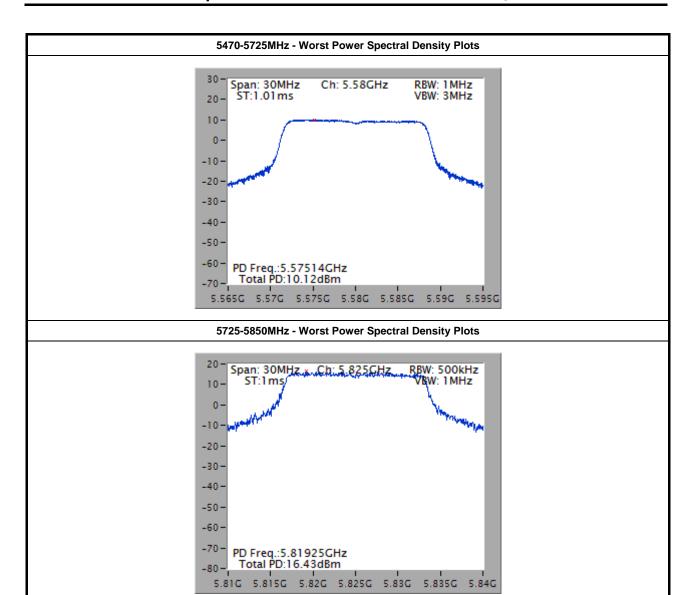
Peak Power Spectral Density Result (5725-5850MHz band)								
Condit	ion		Peak P	Peak Power Spectral Density (dBm/500kHz)				
Modulation Mode	e N <sub>TX</sub> Freq. (MHz)		PSD (dBm)	PSD Limit	DG (dBi)			
11a	2	5745	15.47	30.00	4.65			
11a	2	5785	15.96	30.00	4.65			
11a	2	5825	16.43	30.00	4.65			
HT20	2	5745	14.35	30.00	4.65			
HT20	2	5785	15.82	30.00	4.65			
HT20	2	5825	15.87	30.00	4.65			
HT40	2	5755	8.22	30.00	4.65			
HT40	2	5795	12.87	30.00	4.65			
Result			Complied					

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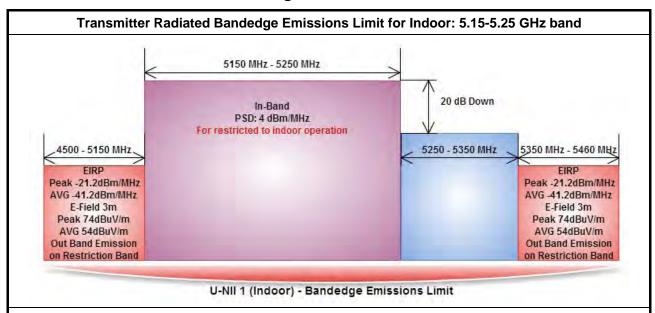
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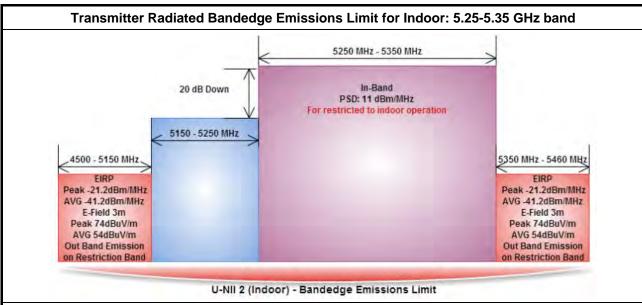
3.5 Transmitter Bandedge Emissions

### 3.5.1 Transmitter Radiated Bandedge Emissions Limit



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Refer as FCC KDB 789033 D02 v01, 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.



Refer as FCC KDB 789033 D02 v01, 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.

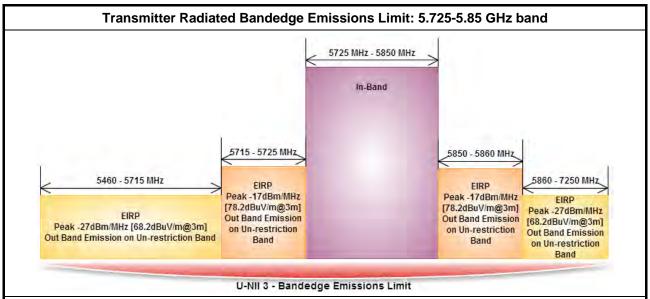
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Transmitter Radiated Bandedge Emissions Limit: 5.47-5.725 GHz band 5470 MHz - 5725 MHz In-Band PSD: 11 dBm/MHz 5460 - 5470 MHz 5725 - 7250 MHz To relax restrictions EIRP To relax restrictions EIRP Peak -21.2dBm/MHz (Peak 74dBuV/m@3m) Peak -21,2dBm/MHz (Peak 74dBuV/m@3m) AVG -41.2dBm/MHz (AVG 54dBuV/m@3m) AVG -41.2dBm/MHz (AVG 54dBuV/m@3m) Out Band Emission on Restriction Band **Out Band Emission on Restriction Band** Original FIRP Original FIRP Peak -27dBm/MHz [68.2dBuV/m@3m] Peak -27dBm/MHz [68.2dBuV/m@3m] Out Band Emission on Un-restriction Band Out Band Emission on Un-restriction Band U-NII 2ext - Bandedge Emissions Limit

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Refer as FCC KDB 789033 D02 v01, 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.



Refer as FCC KDB 789033 D02 v01, 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

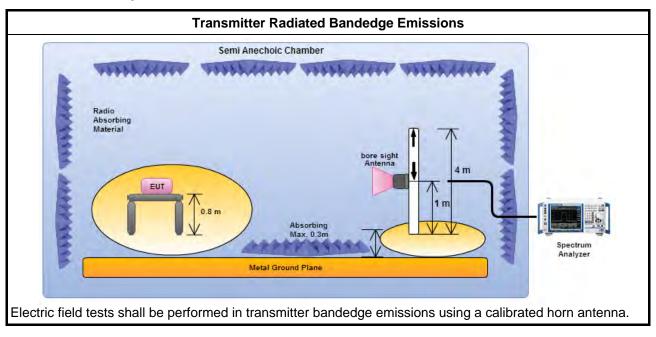
		Test Method
$\boxtimes$	The a	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
$\boxtimes$		r as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency nel and highest frequency channel within the allowed operating band.
	chanr will co at lov	T operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency nel at 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 tent 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 nel 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 th	ne transmitter unwanted emissions shall be measured using following options below:
		Refer as FCC KDB 789033 D02 v01, clause H)2) for unwanted emissions into non-restricted bands.
		Refer as FCC KDB 789033 D02 v01, clause H)1) for unwanted emissions into restricted bands.
	<u> </u>	Refer as FCC KDB 789033 D02 v01, H)6) Method AD (Trace Averaging).
	<u> </u>	Refer as FCC KDB 789033 D02 v01, H)6) Method VB (Reduced VBW).
	<u> </u>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	<u> </u>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	<u> </u>	Refer as FCC KDB 789033 D02 v01, clause H)5) measurement procedure peak limit.
		Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
$\boxtimes$	For th	ne transmitter bandedge emissions shall be measured using following options below:
		Refer as FCC KDB 789033 D02 v01, 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 6.9.2 for band-edge testing.
		Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
$\boxtimes$	For ra	adiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.
	performation equipment extrapolation distant meas	surements may be performed at a distance other than the limit distance provided they are not rmed in the near field and the emissions to be measured can be detected by the measurement ment. When performing measurements at a distance other than that specified, the results shall be polated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear nece for field-strength measurements, inverse of linear distance-squared for power-density surements). Measurements in the bandedge are typically made at a closer distance 3m, because estrumentation 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)

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	2	5180	3	5147.10	69.55	74.00	5150.00	52.67	54.00	Н
11a	2	5240	3	5367.30	62.82	74.00	5392.20	51.01	54.00	Н
HT20	2	5180	3	5147.10	68.01	74.00	5150.00	52.64	54.00	Н
HT20	2	5240	3	5392.50	64.95	74.00	5392.20	52.64	54.00	Н
HT40	2	5190	3	5141.69	68.20	74.00	5142.02	52.63	54.00	Н
HT40	2	5230	3	5397.00	64.89	74.00	5398.20	52.64	54.00	Н

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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	2	5260	3	5371.50	62.64	74.00	5371.80	49.90	54.00	Н
11a	2	5320	3	5350.53	69.08	74.00	5351.09	52.39	54.00	Н
HT20	2	5260	3	5388.60	67.73	74.00	5372.10	52.53	54.00	Н
HT20	2	5320	3	5357.25	65.91	74.00	5353.26	52.04	54.00	Н
HT40	2	5270	3	5357.70	65.01	74.00	5381.70	52.05	54.00	Н
HT40	2	5310	3	5353.99	66.28	74.00	5355.70	52.30	54.00	Н

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# FCC Test Report

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	2	5500	3	5459.68	63.52	74.00	5470.00	52.84	54.00	Н
11a	2	5700	3	5725.00	66.44	68.20	-	-	-	Н
HT20	2	5500	3	5467.04	67.10	74.00	5469.92	52.37	54.00	Н
HT20	2	5700	3	5725.00	67.02	68.20	-	-	-	Н
HT40	2	5510	3	5460.70	66.69	74.00	5470.00	52.73	54.00	Н
HT40	2	5670	3	5733.10	66.69	68.20	-	-	-	Н

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Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Pol.
11a	2	5745	3	5724.97	75.84	78.2	Н
11a	2	5825	3	5854.27	69.58	78.2	Н
HT20	2	5745	3	5724.76	76.64	78.2	Н
HT20	2	5825	3	5850.07	75.43	78.2	Н
HT40	2	5755	3	5714.48	67.09	78.2	Н
HT40	2	5795	3	5850.70	67.22	78.2	Н

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3.6 Transmitter Unwanted Emissions

### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emiss	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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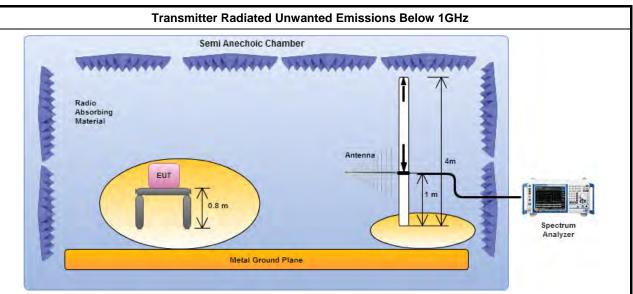
# 3.6.3 Test Procedures

		Test Method
	perf equi abor are be e	asurements 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 ipment. 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 asurements).
	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 D02 v01, clause G)2) for unwanted emissions into non-restricted bands.
	$\boxtimes$	Refer as FCC KDB 789033 D02 v01, clause G)1) for unwanted emissions into restricted bands.
		Refer as FCC KDB 789033 D02 v01, G)6) Method AD (Trace Averaging).
		Refer as FCC KDB 789033 D02 v01, 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 D02 v01, clause G)5) measurement procedure peak limit.
		Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
$\boxtimes$	For	radiated measurement.
		Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test 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.
	The	any unwanted emissions level shall not exceed the fundamental emission level.
		amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.

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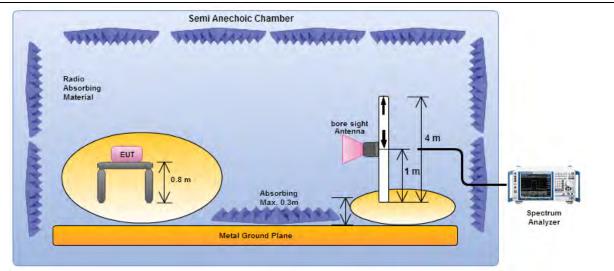
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#### 3.6.4 Test Setup



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



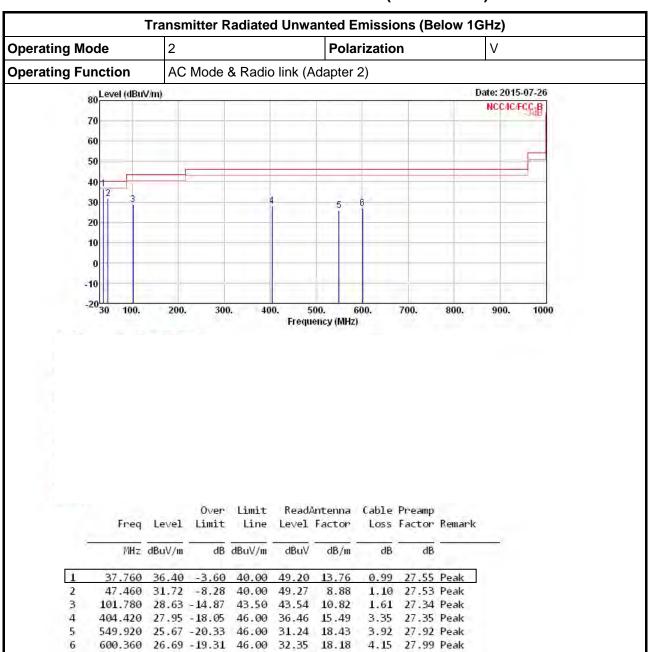
Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

### 3.6.5 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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### 3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)



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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.)

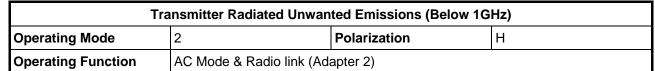
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

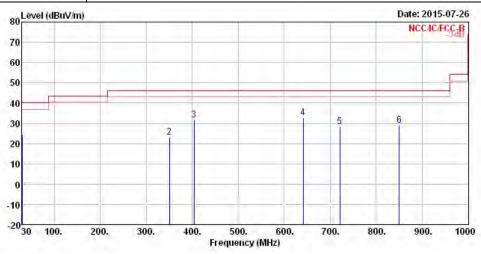
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level.	Factor	Loss	Factor	Remark
3	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	30.000	24.38	-15.62	40.00	33.19	17.94	0.82	27.57	Peak
2	350.100	23.26	-22.74	46.00	33.10	14.03	3.12	26.99	Peak
3	404.420	31.73	-14.27	46.00	40.24	15.49	3.35	27.35	Peak
4	641.100	32.86	-13.14	46.00	37.95	18.56	4.31	27.96	Peak
5	720.640	28.43	-17.57	46.00	32.84	18.88	4.60	27.89	Peak
6	850.620	28.94	-17.06	46.00	31.75	19.95	4.94	27.70	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.)

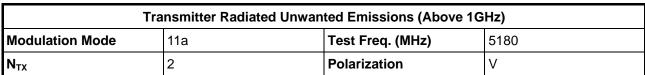
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

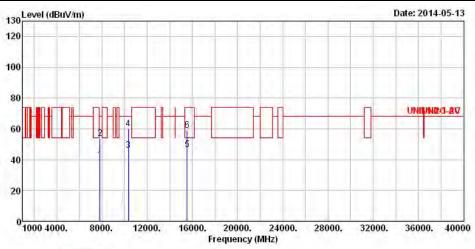
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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

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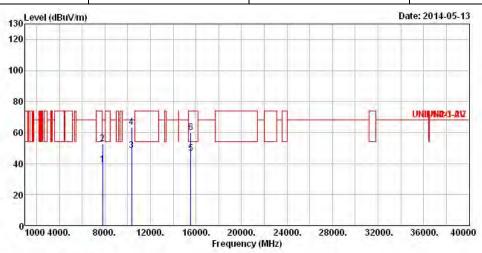


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	_	cm	deg
1	7842.000	40.02	-28.18	68.20	27.96	36.83	8.00	32.77	Average	1224	1224
2	7842.000	53.84	-14.36	68.20	41.78	36.83	8.00	32.77	Peak		
3	10360.000	46.27	-21.93	68.20	31.17	38.95	8.92	32.77	Average	222	222
4	10360.000	60.00	-8.20	68.20	44.90	38.95	8.92	32.77	Peak	1444	444
5	15540.000	46.37	-7.63	54.00	29.25	37.73	11.59	32.20	Average	1224	
6	15540.000	59.11	-14.89	74.00	41.99	37.73	11.59	32.20	Peak	1,555	1.664

- 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)	5180								
N <sub>TX</sub>	2	Polarization	Н								

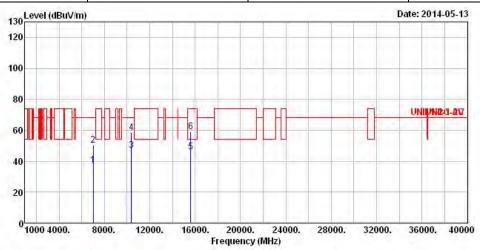


	Freq	Level	Over Limit	,		Antenna Factor		Marine Marine		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	7818.000	39.40	-28.80	68.20	27.35	36.82	8.00	32.77	Average	1.888	1.666
2	7818.000	52.82	-15.38	68.20	40.77	36.82	8.00	32.77	Peak		
3	10360.000	48.54	-19.66	68.20	33.44	38.95	8.92	32.77	Average		
4	10360.000	63.29	-4.91	68.20	48.19	38.95	8.92	32.77	Peak		
5	15540.000	46.68	-7.32	54.00	29.56	37.73	11.59	32.20	Average		
6	15540.000	59.81	-14.19	74.00	42.69	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	Modulation Mode 11a Test Freq. (MHz) 5200										
$N_{TX}$											

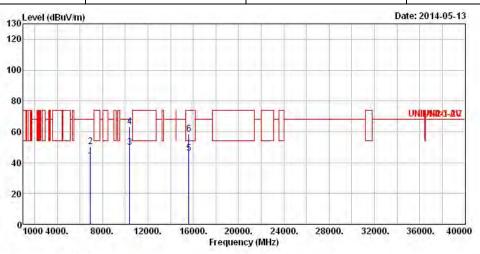


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	-	Cm	deg
1	7008.000	37.42	-30.78	68.20	27.66	35.30	7.05	32.59	Average	1444	
2	7008.000	50.44	-17.76	68.20	40.68	35.30	7.05	32.59	Peak		
3	10400.000	46.93	-21.27	68.20	31.78	38.94	8.94	32.73	Average		
4	10400.000	58.67	-9.53	68.20	43.52	38.94	8.94	32.73	Peak	1444	
5	15600.000	46.03	-7.97	54.00	29.07	37.59	11.59	32.22	Average		
6	15600.000	58.80	-15.20	74.00	41.84	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	Modulation Mode 11a Test Freq. (MHz) 5200										
$N_{TX}$	I <sub>TX</sub> 2 Polarization H										



	Freq	Level	0∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		- Cm	deg
1	6930.000	41.07	-27.13	68.20	31.47	35.18	6.99	32.57	Average	1999	
2	6930.000	50.30	-17.90	68.20	40.70	35.18	6.99	32.57	Peak	1	
3	10400.000	49.72	-18.48	68.20	34.57	38.94	8.94	32.73	Average	-888	
4	10400.000	63.55	-4.65	68.20	48.40	38.94	8.94	32.73	Peak		
5	15600.000	46.06	-7.94	54.00	29.10	37.59	11.59	32.22	Average		
6	15600.000	58.53	-15.47	74.00	41.57	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.

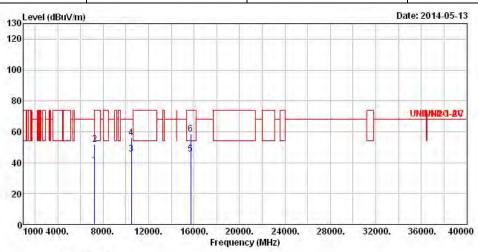
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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FCC Test Report

Report No.: FR430452-03AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	11a	Test Freq. (MHz)	5240							
N <sub>TX</sub>	N <sub>TX</sub> 2 Polarization V									



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7248.000	38.34	-29.86	68.20	27.84	35.92	7.23	32.65	Average	922	422
2	7248.000	51.66	-16.54	68.20	41.16	35.92	7.23	32.65	Peak	1555	
3	10480.000	45.50	-22.70	68.20	30.27	38.91	8.99	32.67	Average	222	444
4	10480.000	56.36	-11.84	68.20	41.13	38.91	8.99	32.67	Peak	1777	
5	15720.000	45.34	-8.66	54.00	28.65	37.35	11.59	32.25	Average	222	222
6	15720.000	58.36	-15.64	74.00	41.67	37.35	11.59	32.25	Peak	1.554	

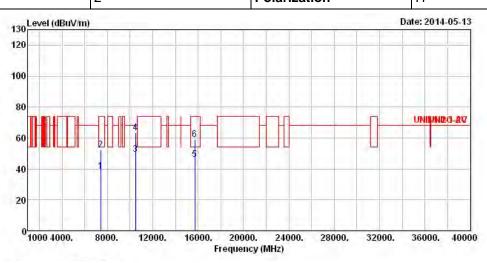
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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

Tra	ansmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	11a	Test Freq. (MHz)	5240
N <sub>TV</sub>	2	Polarization	Н

Report No.: FR430452-03AN

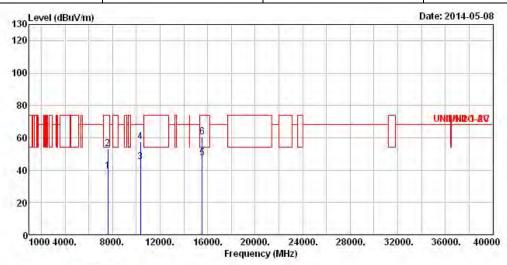


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIII	deg
1	7398.000	38.28	-15.72	54.00	27.38	36.25	7.34	32.69	Average	1444	1224
2	7398.000	52.28	-21.72	74.00	41.38	36.25	7.34	32.69	Peak	1.55+	444
3	10480.000	49.60	-18.60	68.20	34.37	38.91	8.99	32.67	Average	222	222
4	10480.000	63.13	-5.07	68.20	47.90	38.91	8.99	32.67	Peak	1444	1444
5	15720.000	46.17	-7.83	54.00	29.48	37.35	11.59	32.25	Average	1444	
6	15720.000	58.93	- 15.07	74.00	42.24	37.35	11.59	32.25	Peak	1777	1997

- 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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TEL: 886-3-327-3456 Report Version : Rev. 02

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

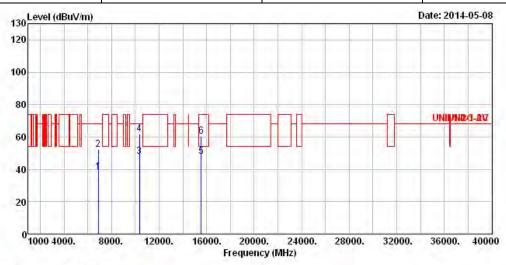


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		ĊIII	deg
1	7602.000	39.55	- 14.45	54.00	28.12	36.60	7.57	32.74	Average	.+++	
2	7602.000	53.31	-20.69	74.00	41.88	36.60	7.57	32.74	Peak	444	1444
3	10360.000	44.93	-23.27	68.20	29.83	38.95	8.92	32.77	Average		***
4	10360.000	57.54	-10.66	68.20	42.44	38.95	8.92	32.77	Peak	1224	224
5	15540.000	47.64	-6.36	54.00	30.52	37.73	11.59	32.20	Average		***
6	15540.000	60.39	-13.61	74.00	43.27	37.73	11.59	32.20	Peak		444

- 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 HT20 Test Freq. (MHz) 5180									
$N_{TX}$	N <sub>TX</sub> 2 Polarization H									

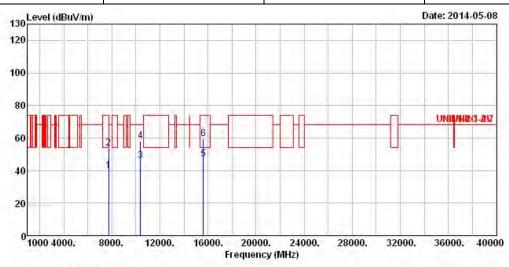


	Freq	Level	Over Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
ī	6906.000	38.41	-29.79	68.20	28.90	35.11	6.96	32.56	Average		
2	6906.000	52.26	-15.94	68.20	42.75	35.11	6.96	32.56	Peak		
3	10360.000	48.14	-20.06	68.20	33.04	38.95	8.92	32.77	Average		
4	10360.000	61.83	-6.37	68.20	46.73	38.95	8.92	32.77	Peak	1.666	
5	15540.000	47.86	-6.14	54.00	30.74	37.73	11.59	32.20	Average		
6	15540.000	60.65	-13.35	74.00	43.53	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	Modulation Mode HT20 Test Freq. (MHz) 5200									
$N_{TX}$	2	Polarization	V							



	Freq	Level	.0∨er Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7740.000	39.77	-14.23	54.00	27.94	36.73	7.86	32.76	Average	1222	224
2	7740.000	53.61	-20.39	74.00	41.78	36.73	7.86	32.76	Peak		1,555
3	10400.000	46.22	-21.98	68.20	31.07	38.94	8.94	32.73	Average	222	1222
4	10400.000	58.16	-10.04	68.20	43.01	38.94	8.94	32.73	Peak	777	1777
5	15600.000	47.15	-6.85	54.00	30.19	37.59	11.59	32.22	Average	1222	1224
6	15600.000	59.50	-14.50	74.00	42.54	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)

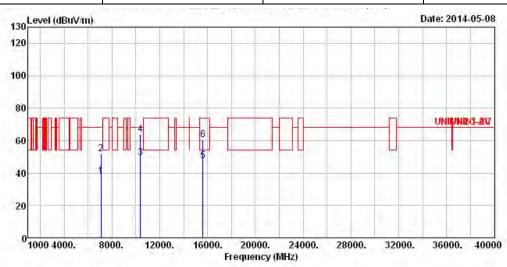
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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) 5200									
$N_{TX}$	2	Polarization	Н						



	Freq	Level	Over Limit	-		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7086.000	37.82	-30.38	68.20	27.81	35.51	7.11	32.61	Average	444	144
2	7086.000	51.81	-16.39	68.20	41.80	35.51	7.11	32.61	Peak		-
3	10400.000	49.27	-18.93	68.20	34.12	38.94	8.94	32.73	Average	224	1224
4	10400.000	63.71	-4.49	68.20	48.56	38.94	8.94	32.73	Peak	1.4641	
5	15600.000	47.26	-6.74	54.00	30.30	37.59	11.59	32.22	Average	222	1000
6	15600.000	60.25	-13.75	74.00	43.29	37.59	11.59	32.22	Peak	777	444

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)

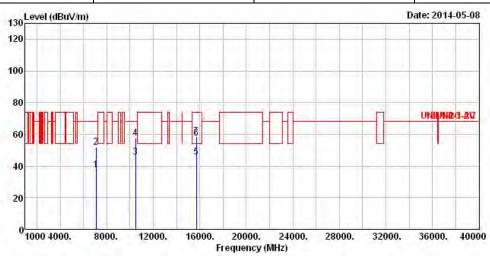
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 HT20 Test Freq. (MHz) 5240									
$N_{TX}$	2	Polarization	V							



	Freq	Level	Over Limit	TT-VIEW E		Antenna Factor		7 - 2 - 2		A/Pos	T/Pos
		dBuV/m		dBuV/m	dBuV	dB/m	dB				deg
	Dated vice			30000	7,000				2-5-5		
1	7092.000	37.33	-30.87	68.20	27.32	35.51	7.11	32.61	Average		
2	7092.000	51.60	-16.60	68.20	41.59	35.51	7.11	32.61	Peak		
3	10480.000	45.48	-22.72	68.20	30.25	38.91	8.99	32.67	Average		
4	10480.000	57.34	-10.86	68.20	42.11	38.91	8.99	32.67	Peak	1.664	
5	15720.000	45.58	-8.42	54.00	28.89	37.35	11.59	32.25	Average		
6	15720.000	57.48	-16.52	74.00	40.79	37.35	11.59	32.25	Peak		
7	15720.000	58.68	-15.32	74.00	41.99	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)

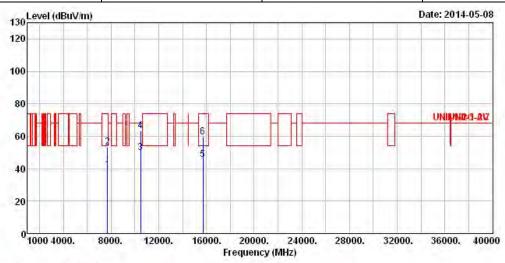
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5240							
$N_{TX}$	2	Polarization	Н							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7692.000	39.50	-14.50	54.00	27.77	36.70	7.78	32.75	Average		
2	7692.000	53.06	-20.94	74.00	41.33	36.70	7.78	32.75	Peak		
3	10480.000	49.66	-18.54	68.20	34.43	38.91	8.99	32.67	Average		
4	10480.000	63.30	-4.90	68.20	48.07	38.91	8.99	32.67	Peak	1.664	
5	15720.000	45.65	-8.35	54.00	28.96	37.35	11.59	32.25	Average		
6	15720.000	59.62	-14.38	74.00	42.93	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)

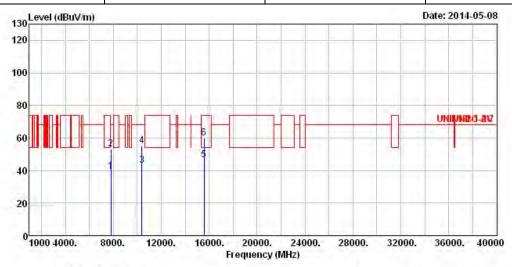
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 <sub>TX</sub>	2	Polarization	V						



	Freq	Level	.O∨er Limit	Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	——dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7812.000	39.42	-28.78	68.20	27.37	36.82	8.00	32.77	Average	1222	224
2	7812.000	53.33	-14.87	68.20	41.28	36.82	8.00	32.77	Peak	1.444	1.664
3	10380.000	43.00	-25.20	68.20	27.86	38.95	8.94	32.75	Average	222	222
4	10380.000	55.37	-12.83	68.20	40.23	38.95	8.94	32.75	Peak		1777
5	15570.000	46.72	-7.28	54.00	29.67	37.66	11.59	32.20	Average	1224	1224
6	15570.000	59.83	-14.17	74.00	42.78	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)

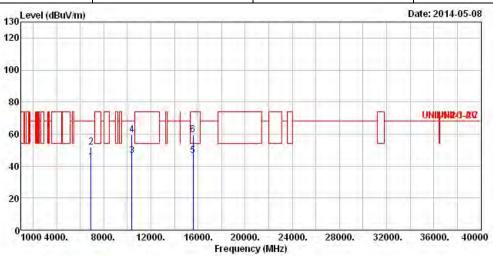
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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.

SPORTON INTERNATIONAL INC. Page No. : 61 of 118 TEL: 886-3-327-3456 Report Version : Rev. 02

Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation ModeHT40Test Freq. (MHz)5190									
$N_{TX}$	2	Polarization	Н							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	-	Cm	deg
1	6918.000	42.47	-25.73	68.20	32.90	35.14	6.99	32.56	Average	1995	
2	6918.000	51.81	-16.39	68.20	42.24	35.14	6.99	32.56	Peak		
3	10380.000	46.65	-21.55	68.20	31.51	38.95	8.94	32.75	Average		
4	10380.000	59.69	-8.51	68.20	44.55	38.95	8.94	32.75	Peak		
5	15570.000	46.68	-7.32	54.00	29.63	37.66	11.59	32.20	Average	1.000	1.000
6	15570.000	59.51	-14.49	74.00	42.46	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)

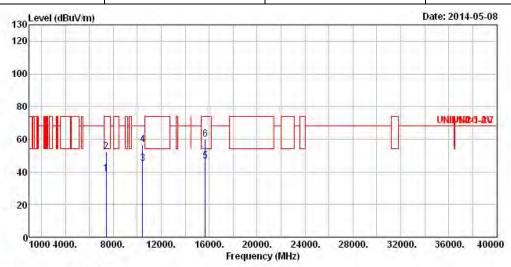
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	Modulation Mode HT40 Test Freq. (MHz) 5230								
N <sub>TX</sub>	N <sub>TX</sub> 2 Polarization V								



	Freq	Level	Over Limit			Antenna Factor		7-1		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
ī	7422.000	38.68	-15.32	54.00	27.68	36.33	7.37	32.70	Average		
2	7422.000	52.19	-21.81	74.00	41.19	36.33	7.37	32.70	Peak		
3	10460.000	45.13	-23.07	68.20	29.91	38.92	8.99	32.69	Average		
4	10460.000	56.64	-11.56	68.20	41.42	38.92	8.99	32.69	Peak	1.444	
5	15690.000	46.63	-7.37	54.00	29.86	37.42	11.59	32.24	Average		
6	15690.000	59.94	-14.06	74.00	43.17	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.

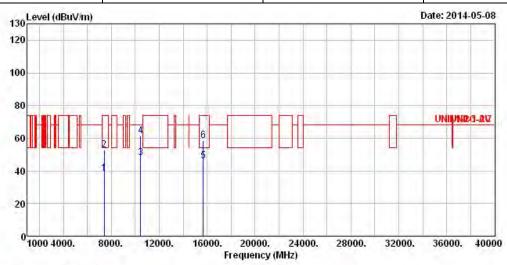
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

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

SPORTON INTERNATIONAL INC. Page No. : 63 of 118 TEL: 886-3-327-3456 Report Version : Rev. 02

FAX: 886-3-327-0973

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT40 Test Freq. (MHz) 5230								
N <sub>TX</sub> 2 Polarization H								



	Freq	Level	Over Limit			Antenna Factor		7-1		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7422.000	38.56	-15.44	54.00	27.56	36.33	7.37	32.70	Average		
2	7422.000	52.61	-21.39	74.00	41.61	36.33	7.37	32.70	Peak		
3	10460.000	48.14	-20.06	68.20	32.92	38.92	8.99	32.69	Average		
4	10460.000	61.22	-6.98	68.20	46.00	38.92	8.99	32.69	Peak		
5	15690.000	45.82	-8.18	54.00	29.05	37.42	11.59	32.24	Average		
6	15690.000	58.48	-15.52	74.00	41.71	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)

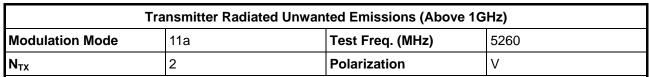
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

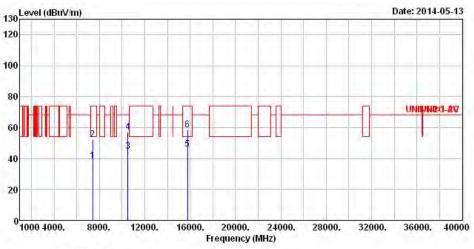
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

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

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## 3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5250-5350MHz



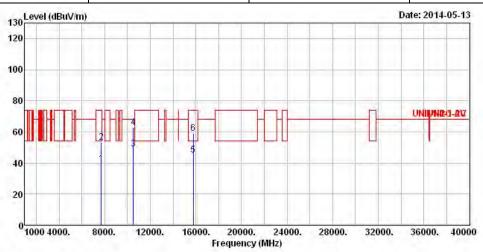


	Freq	Level	0∨er Limit	Limit Line		Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	7398.000	38.42	-15.58	54.00	27.52	36.25	7.34	32.69	Average	(224	1224
2	7398.000	52.36	-21.64	74.00	41.46	36.25	7.34	32.69	Peak		
3	10524.000	44.43	-23.77	68.20	29.17	38.89	9.02	32.65	Average	222	222
4	10524.000	56.85	-11.35	68.20	41.59	38.89	9.02	32.65	Peak	444	1444
5	15780.000	46.24	-7.76	54.00	29.67	37.25	11.59	32.27	Average	1222	444
6	15780.000	58.56	-15.44	74.00	41.99	37.25	11.59	32.27	Peak	257	227

- 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 11a Test Freq. (MHz) 5260							
N <sub>TX</sub> 2 Polarization H								

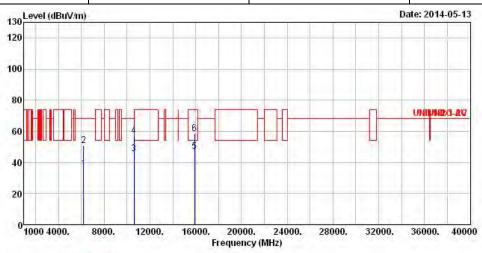


	Freq	Level	0∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	——dB			deg
1	7704.000	39.34	-14.66	54.00	27.61	36.70	7.78	32.75	Average	1.666	1.888
2	7704.000	53.10	-20.90	74.00	41.37	36.70	7.78	32.75	Peak		
3	10520.000	49.14	-19.06	68.20	33.88	38.89	9.02	32.65	Average		
4	10520.000	62.97	-5.23	68.20	47.71	38.89	9.02	32.65	Peak		
5	15780.000	45.32	-8.68	54.00	28.75	37.25	11.59	32.27	Average		
6	15780.000	58.87	-15.13	74.00	42.30	37.25	11.59	32.27	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 11a Test Freq. (MHz) 5300								
N <sub>TX</sub> 2 Polarization V									

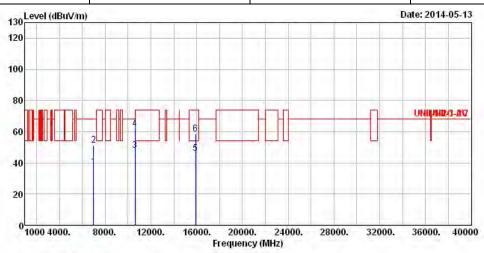


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	6198.000	35.76	-32.44	68.20	27.31	34.28	6.63	32.46	Average	222	1222
2	6198.000	50.64	-17.56	68.20	42.19	34.28	6.63	32.46	Peak	337	337
3	10600.000	45.48	-8.52	54.00	30.19	38.84	9.06	32.61	Average	222	1222
4	10600.000	57.05	-16.95	74.00	41.76	38.84	9.06	32.61	Peak		1.444
5	15900.000	47.08	-6.92	54.00	30.78	37.01	11.59	32.30	Average		
6	15900.000	58.72	-15.28	74.00	42.42	37.01	11.59	32.30	Peak	337	337

- 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 11a Test Freq. (MHz) 5300								
$N_{TX}$	N <sub>TX</sub> 2 Polarization H								

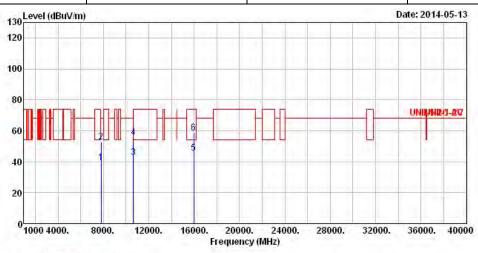


			0ver			Antenna		Marie Contract Contra		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	7002.000	37.38	-30.82	68.20	27.61	35.30	7.05	32.58	Average		
2	7002.000	51.40	-16.80	68.20	41.63	35.30	7.05	32.58	Peak	1.666	
3	10600.000	47.86	-6.14	54.00	32.57	38.84	9.06	32.61	Average		
4	10600.000	62.08	-11.92	74.00	46.79	38.84	9.06	32.61	Peak		
5	15900.000	46.11	-7.89	54.00	29.81	37.01	11.59	32.30	Average		
6	15900.000	58.74	-15.26	74.00	42.44	37.01	11.59	32.30	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 11a Test Freq. (MHz) 5320							
N <sub>TX</sub> 2 Polarization V								



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		Cm	deg
1	7812.000	39.29	-28.91	68.20	27.24	36.82	8.00	32.77	Average		
2	7812.000	52.58	-15.62	68.20	40.53	36.82	8.00	32.77	Peak	1.666	
3	10640.000	42.75	-11.25	54.00	27.44	38.82	9.07	32.58	Average		
4	10640.000	55.66	-18.34	74.00	40.35	38.82	9.07	32.58	Peak		
5	15960.000	45.72	-8.28	54.00	29.58	36.87	11.59	32.32	Average		
6	15960.000	58.60	-15.40	74.00	42.46	36.87	11.59	32.32	Peak		995

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)

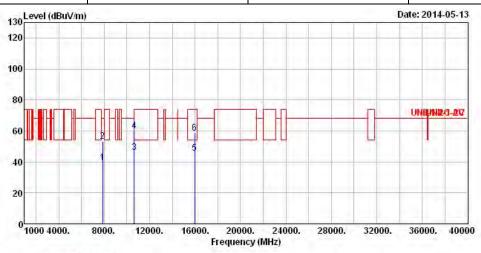
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5320					
$N_{TX}$	2	Polarization	Н					

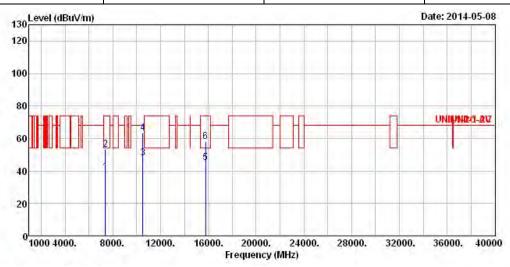


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		, , , , , , , , , , , , , , , , , , , ,
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	7884.000	39.53	-28.67	68.20	27.29	36.88	8.14	32.78	Average		
2	7884.000	53.27	-14.93	68.20	41.03	36.88	8.14	32.78	Peak	1.666	
3	10640.000	46.25	-7.75	54.00	30.94	38.82	9.07	32.58	Average		
4	10640.000	60.02	-13.98	74.00	44.71	38.82	9.07	32.58	Peak		
5	15960.000	45.79	-8.21	54.00	29.65	36.87	11.59	32.32	Average		
6	15960.000	58.53	-15.47	74.00	42.39	36.87	11.59	32.32	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)	5260						
N <sub>TX</sub>	2	Polarization	V						



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7392.000	39.12	-14.88	54.00	28.22	36.25	7.34	32.69	Average		
2	7392.000	53.18	-20.82	74.00	42.28	36.25	7.34	32.69	Peak		
3	10520.000	48.16	-20.04	68.20	32.90	38.89	9.02	32.65	Average		
4	10520.000	63.40	-4.80	68.20	48.14	38.89	9.02	32.65	Peak		
5	15780.000	45.32	-8.68	54.00	28.75	37.25	11.59	32.27	Average		
6	15780.000	58.28	-15.72	74.00	41.71	37.25	11.59	32.27	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)

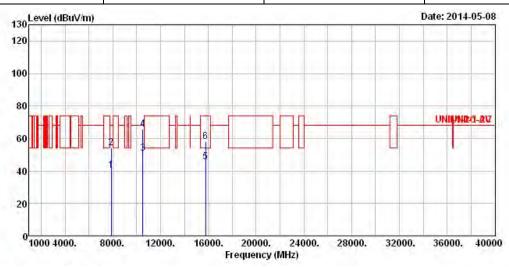
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5260						
N <sub>TX</sub>	2	Polarization	Н						



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7872.000	40.38	-27.82	68.20	28.22	36.87	8.07	32.78	Average		
2	7872.000	54.06	-14.14	68.20	41.90	36.87	8.07	32.78	Peak		
3	10520.000	50.93	-17.27	68.20	35.67	38.89	9.02	32.65	Average		
4	10520.000	65.75	-2.45	68.20	50.49	38.89	9.02	32.65	Peak	1294	1.244
5	15780.000	45.45	-8.55	54.00	28.88	37.25	11.59	32.27	Average		
6	15780.000	58.28	-15.72	74.00	41.71	37.25	11.59	32.27	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)

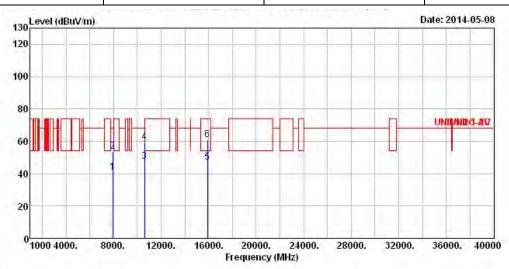
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5300							
N <sub>TX</sub>	2	Polarization	V							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7932.000	40.54	-27.66	68.20	28.19	36.93	8.21	32.79	Average	1222	244
2	7932.000	53.56	-14.64	68.20	41.21	36.93	8.21	32.79	Peak	1777	
3	10600.000	47.50	-6.50	54.00	32.21	38.84	9.06	32.61	Average	224	224
4	10600.000	59.59	-14.41	74.00	44.30	38.84	9.06	32.61	Peak		227
5	15900.000	47.11	-6.89	54.00	30.81	37.01	11.59	32.30	Average	222	444
6	15900.000	60.82	-13.18	74.00	44.52	37.01	11.59	32.30	Peak	***	777

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)

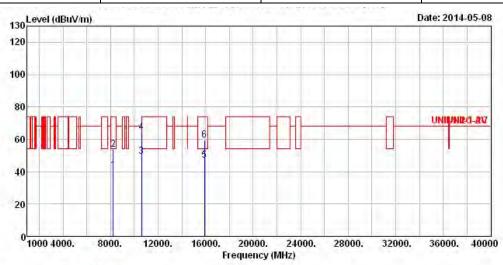
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5300							
$N_{TX}$	2	Polarization	Н							



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8232.000	40.93	-13.07	54.00	28.08	37.49	8.16	32.80	Average	1222	244
2	8232.000	53.93	-20.07	74.00	41.08	37.49	8.16	32.80	Peak	1777	1777
3	10600.000	49.64	-4.36	54.00	34.35	38.84	9.06	32.61	Average	224	224
4	10600.000	64.36	-9.64	74.00	49.07	38.84	9.06	32.61	Peak	1.444	
5	15900.000	47.11	-6.89	54.00	30.81	37.01	11.59	32.30	Average	244	444
6	15900.000	59.64	-14.36	74.00	43.34	37.01	11.59	32.30	Peak	777	777

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)

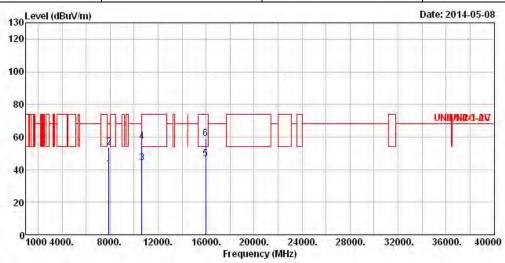
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5320							
N <sub>TX</sub>	2	Polarization	V							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
Ĺ	7896.000	40.53	-27.67	68.20	28.27	36.90	8.14	32.78	Average		
)	7896.000	53.59	-14.61	68.20	41.33	36.90	8.14	32.78	Peak		
3	10640.000	44.02	-9.98	54.00	28.71	38.82	9.07	32.58	Average		
l	10640.000	56.87	-17.13	74.00	41.56	38.82	9.07	32.58	Peak	1266	
	15960.000	46.44	-7.56	54.00	30.30	36.87	11.59	32.32	Average		
,	15960.000	59.09	-14.91	74.00	42.95	36.87	11.59	32.32	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)

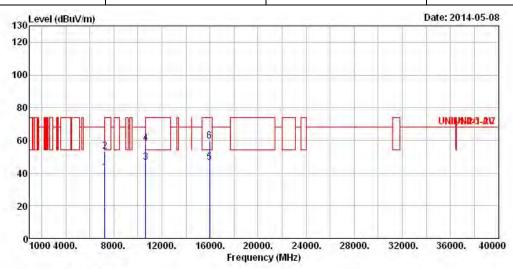
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5320						
N <sub>TX</sub> 2 Polarization H									



	15		0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7254.000	40.10	-13.90	54.00	29.60	35.92	7.23	32.65	Average		
2	7254.000	53.32	-20.68	74.00	42.82	35.92	7.23	32.65	Peak		
3	10640.000	46.77	-7.23	54.00	31.46	38.82	9.07	32.58	Average		
4	10640.000	58.02	-15.98	74.00	42.71	38.82	9.07	32.58	Peak	1266	
5	15960.000	46.47	-7.53	54.00	30.33	36.87	11.59	32.32	Average		
6	15960.000	59.44	-14.56	74.00	43.30	36.87	11.59	32.32	Peak	565	1.5.5.5

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)

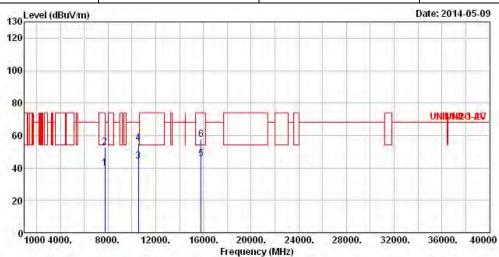
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5270						
$N_{TX}$	2	Polarization	V						



	Freq	Level	0∨er Limit	Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7734.000	39.79	-14.21	54.00	27.96	36.73	7.86	32.76	Average	1444	
2	7734.000	52.95	-21.05	74.00	41.12	36.73	7.86	32.76	Peak	222	222
3	10540.000	44.22	-23.98	68.20	28.94	38.88	9.04	32.64	Average		
4	10540.000	55.36	-12.84	68.20	40.08	38.88	9.04	32.64	Peak	222	
5	15810.000	45.63	-8.37	54.00	29.14	37.18	11.59	32.28	Average	777	1227
6	15810.000	57.41	-16.59	74.00	40.92	37.18	11.59	32.28	Peak	222	222

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)

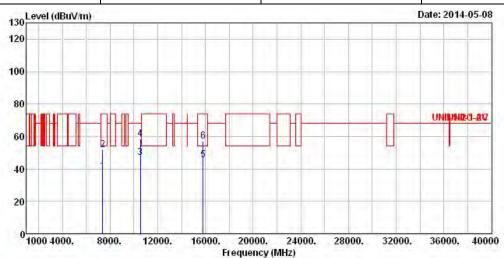
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5270							
N <sub>TX</sub>	2	Polarization	Н							



			0ver	Limit	1921	Antenna		Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7386.000	38.45	- 15 .55	54.00	27.55	36.25	7.34	32.69	Average	1444	
2	7386.000	51.79	-22.21	74.00	40.89	36.25	7.34	32.69	Peak	222	224
3	10540.000	46.81	-21.39	68.20	31.53	38.88	9.04	32.64	Average		1.444
4	10540.000	58.33	-9.87	68.20	43.05	38.88	9.04	32.64	Peak	1222	1000
5	15810.000	45.56	-8.44	54.00	29.07	37.18	11.59	32.28	Average		
6	15810.000	57.21	-16.79	74.00	40.72	37.18	11.59	32.28	Peak	222	222

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)

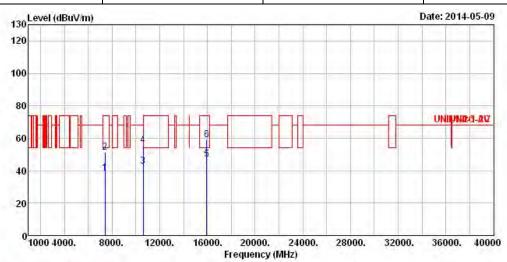
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 HT40 Test Freq. (MHz) 5310									
$N_{TX}$	N <sub>TX</sub> 2 Polarization V									



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7416.000	38.41	-15.59	54.00	27.45	36.29	7.37	32.70	Average		
2	7416.000	51.54	-22.46	74.00	40.58	36.29	7.37	32.70	Peak		
3	10620.000	42.92	-11.08	54.00	27.61	38.83	9.07	32.59	Average		
4	10620.000	55.80	-18.20	74.00	40.49	38.83	9.07	32.59	Peak	1.664	
5	15930.000	46.78	-7.22	54.00	30.56	36.94	11.59	32.31	Average		
6	15930.000	58.79	-15.21	74.00	42.57	36.94	11.59	32.31	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)

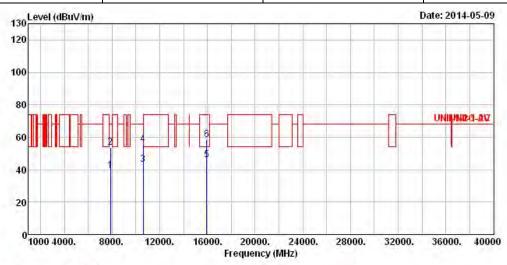
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 HT40 Test Freq. (MHz) 5310								
N <sub>TX</sub> 2 Polarization H									



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
ī	7884.000	39.36	-28.84	68.20	27.12	36.88	8.14	32.78	Average		
2	7884.000	53.69	-14.51	68.20	41.45	36.88	8.14	32.78	Peak		
3	10620.000	43.25	-10.75	54.00	27.94	38.83	9.07	32.59	Average		
4	10620.000	55.67	-18.33	74.00	40.36	38.83	9.07	32.59	Peak	1.666	1.666
5	15930.000	45.99	-8.01	54.00	29.77	36.94	11.59	32.31	Average		
6	15930.000	58.73	-15.27	74.00	42.51	36.94	11.59	32.31	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.

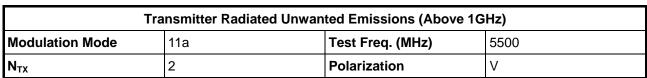
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

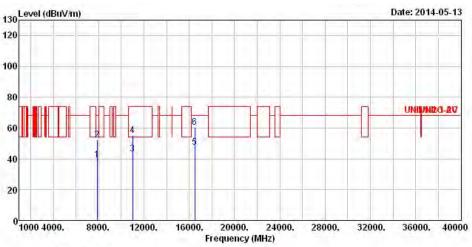
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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# Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5470-5725MHz

Report No.: FR430452-03AN



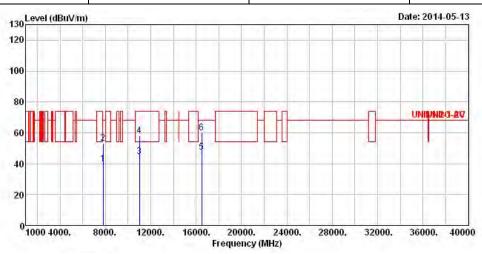


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIII	deg
1	7878.000	39.40	-28.80	68.20	27.23	36.88	8.07	32.78	Average	(444	1224
2	7878.000	52.47	-15.73	68.20	40.30	36.88	8.07	32.78	Peak		444
3	11000.000	43.22	-10.78	54.00	27.76	38.60	9.23	32.37	Average	222	222
4	11000.000	54.98	-19.02	74.00	39.52	38.60	9.23	32.37	Peak	444	444
5	16500.000	47.55	-20.65	68.20	29.41	37.90	12.18	31.94	Average	1224	444
6	16500.000	60.45	-7.75	68.20	42.31	37.90	12.18	31.94	Peak	1.551	

- 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 11a Test Freq. (MHz) 5500									
$N_{TX}$	N <sub>TX</sub> 2 Polarization H									

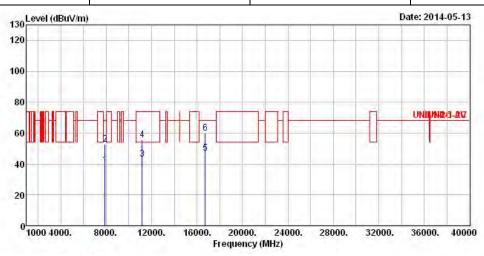


	Freq	Le∨el	0∨er Limit			Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7800.000	39.84	-28.36	68.20	27.88	36.80	7.93	32.77	Average	1224	1224
2	7800.000	53.18	- 15.02	68.20	41.22	36.80	7.93	32.77	Peak		
3	11000.000	44.57	-9.43	54.00	29.11	38.60	9.23	32.37	Average	222	222
4	11000.000	58.09	-15.91	74.00	42.63	38.60	9.23	32.37	Peak	1444	1444
5	16500.000	47.65	-20.55	68.20	29.51	37.90	12.18	31.94	Average	1222	222
6	16500.000	60.00	-8.20	68.20	41.86	37.90	12.18	31.94	Peak	1,554	

- 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 11a Test Freq. (MHz) 5580									
N <sub>TX</sub>	N <sub>TX</sub> 2 Polarization V									

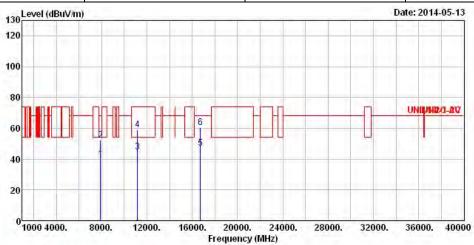


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	$\overline{\text{dBuV/m}}$	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	-	Cm	deg
1	7889.000	39.50	-28.70	68.20	27.26	36.88	8.14	32.78	Average	1.666	1.666
2	7889.000	52.54	-15.66	68.20	40.30	36.88	8.14	32.78	Peak		
3	11160.000	43.09	-10.91	54.00	27.14	38.77	9.54	32.36	Average		
4	11160.000	55.77	-18.23	74.00	39.82	38.77	9.54	32.36	Peak		
5	16740.000	46.90	-21.30	68.20	27.85	39.11	11.58	31.64	Average		
6	16740.000	60.17	-8.03	68.20	41.12	39.11	11.58	31.64	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 11a Test Freq. (MHz) 5580								
N <sub>TX</sub> 2 Polarization H									



-			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		1000
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB			deg
1	7914.000	39.86	-28.34	68.20	27.58	36.92	8.14	32.78	Average		
2	7914.000	52.43	-15.77	68.20	40.15	36.92	8.14	32.78	Peak	1.666	
3	11160.000	44.76	-9.24	54.00	28.81	38.77	9.54	32.36	Average		
4	11160.000	59.23	-14.77	74.00	43.28	38.77	9.54	32.36	Peak		
5	16740.000	47.01	-21.19	68.20	27.96	39.11	11.58	31.64	Average	1888	
6	16740.000	60.67	-7.53	68.20	41.62	39.11	11.58	31.64	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)

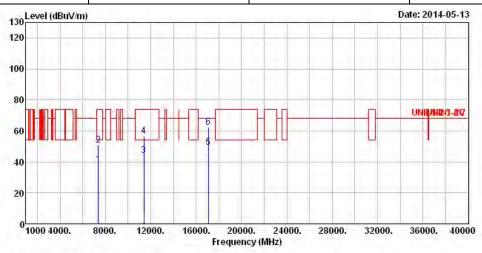
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 Mode11aTest Freq. (MHz)5700								
N <sub>TX</sub> 2 Polarization V									



			0ver			Antenna		Marie Committee		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	-	- — cm	deg
1	7380.000	38.28	-15.72	54.00	27.42	36.21	7.34	32.69	Average		
2	7380.000	50.66	-23.34	74.00	39.80	36.21	7.34	32.69	Peak	1.666	
3	11400.000	44.29	-9.71	54.00	27.72	39.00	9.92	32.35	Average		
4	11400.000	56.53	-17.47	74.00	39.96	39.00	9.92	32.35	Peak		
5	17100.000	49.35	-18.85	68.20	28.20	41.16	11.33	31.34	Average		
6	17100.000	62.55	-5.65	68.20	41.40	41.16	11.33	31.34	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)

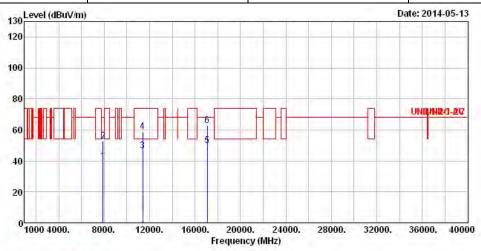
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 Mode11aTest Freq. (MHz)5700								
$N_{TX}$	2	Polarization	Н					



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		cm	deg
1	7908.000	40.00	-28.20	68.20	27.74	36.90	8.14	32.78	Average		
2	7908.000	52.72	-15.48	68.20	40.46	36.90	8.14	32.78	Peak	1.666	1.666
3	11400.000	46.54	-7.46	54.00	29.97	39.00	9.92	32.35	Average		
4	11400.000	59.22	-14.78	74.00	42.65	39.00	9.92	32.35	Peak		1444
5	17100.000	49.91	-18.29	68.20	28.76	41.16	11.33	31.34	Average		
6	17100.000	62.93	-5.27	68.20	41.78	41.16	11.33	31.34	Peak		995

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)

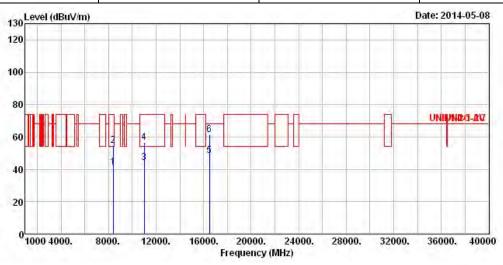
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5500					
$N_{TX}$	2	Polarization	V					

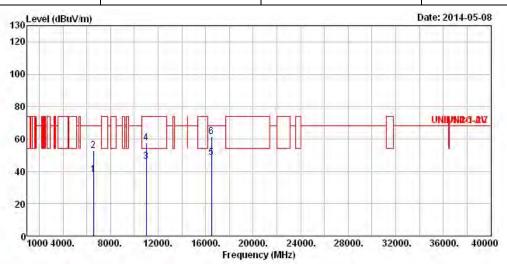


	Freq	Level	Over Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	Cm	deg
ī	8382.000	41.06	-12.94	54.00	27.97	37.83	8.07	32.81	Average		
2	8382.000	54.88	-19.12	74.00	41.79	37.83	8.07	32.81	Peak		
3	11000.000	44.13	-9.87	54.00	28.67	38.60	9.23	32.37	Average		
4	11000.000	56.43	-17.57	74.00	40.97	38.60	9.23	32.37	Peak	1.666	
5	16500.000	48.32	-19.88	68.20	30.18	37.90	12.18	31.94	Average		
6	16500.000	61.35	-6.85	68.20	43.21	37.90	12.18	31.94	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) 5500									
N <sub>TX</sub> 2 Polarization H									



		Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
6564.000	37.83	-30.37	68.20	29.13	34.49	6.70	32.49	Average		
6564.000	52.54	-15.66	68.20	43.84	34.49	6.70	32.49	Peak		
11000.000	46.11	-7.89	54.00	30.65	38.60	9.23	32.37	Average		
11000.000	57.33	-16.67	74.00	41.87	38.60	9.23	32.37	Peak	1.666	1.000
16500.000	48.29	-19.91	68.20	30.15	37.90	12.18	31.94	Average		
16500.000	61.61	-6.59	68.20	43.47	37.90	12.18	31.94	Peak		
	MHz 6564,000 6564,000 11000,000 11000,000 16500,000	MHz dBuV/m  6564.000 37.83 6564.000 52.54 11000.000 46.11 11000.000 57.33 16500.000 48.29	Freq Level Limit  MHz dBuV/m dB  6564.000 37.83 -30.37 6564.000 52.54 -15.66 11000.000 46.11 -7.89 11000.000 57.33 -16.67 16500.000 48.29 -19.91	Freq Level Limit Line    MHz   dBuV/m   dB   dBuV/m     6564.000   37.83   -30.37   68.20     6564.000   52.54   -15.66   68.20     11000.000   46.11   -7.89   54.00     11000.000   57.33   -16.67   74.00     16500.000   48.29   -19.91   68.20	Freq Level Limit Line Level    MHz   dBuV/m   dB   dBuV/m   dBuV     6564.000   37.83   -30.37   68.20   29.13     6564.000   52.54   -15.66   68.20   43.84     11000.000   46.11   -7.89   54.00   30.65     11000.000   57.33   -16.67   74.00   41.87     16500.000   48.29   -19.91   68.20   30.15	Freq Level Limit Line Level Factor    MHz   dBuV/m   dB   dBuV/m   dBuV   dB/m     6564.000   37.83   -30.37   68.20   29.13   34.49     6564.000   52.54   -15.66   68.20   43.84   34.49     11000.000   46.11   -7.89   54.00   30.65   38.60     11000.000   57.33   -16.67   74.00   41.87   38.60     16500.000   48.29   -19.91   68.20   30.15   37.90	Freq         Level         Limit         Line         Level         Factor         Loss           MHz         dBuV/m         dB uV/m         dBuV         dBuV         dB/m         dB           6564.000         37.83 -30.37         68.20         29.13         34.49         6.70           6564.000         52.54 -15.66         68.20         43.84         34.49         6.70           11000.000         46.11 -7.89         54.00         30.65         38.60         9.23           11000.000         57.33 -16.67         74.00         41.87         38.60         9.23           16500.000         48.29 -19.91         68.20         30.15         37.90         12.18	Freq         Level         Limit         Line         Level         Factor         Loss         Factor           MHz         dBuV/m         dB         dBuV/m         dBuV         dB/m         dB/m         dB         dB           6564.000         37.83         -30.37         68.20         29.13         34.49         6.70         32.49           6564.000         52.54         -15.66         68.20         43.84         34.49         6.70         32.49           11000.000         46.11         -7.89         54.00         30.65         38.60         9.23         32.37           11000.000         57.33         -16.67         74.00         41.87         38.60         9.23         32.37           16500.000         48.29         -19.91         68.20         30.15         37.90         12.18         31.94	Freq         Level         Limit         Line         Level         Factor         Loss         Factor         Remark           MHz         dBuV/m         dB         dBuV/m         dBuV         dB/m         dB         dB           6564.000         37.83         -30.37         68.20         29.13         34.49         6.70         32.49         Average           6564.000         52.54         -15.66         68.20         43.84         34.49         6.70         32.49         Peak           11000.000         46.11         -7.89         54.00         30.65         38.60         9.23         32.37         Average           11000.000         57.33         -16.67         74.00         41.87         38.60         9.23         32.37         Peak           16500.000         48.29         -19.91         68.20         30.15         37.90         12.18         31.94         Average	Freq         Level         Limit         Line         Level         Factor         Loss         Factor         Remark           MHz         dBuV/m         dB         dBuV/m         dB/m         dB         dB         cm           6564.000         37.83         -30.37         68.20         29.13         34.49         6.70         32.49         Average            6564.000         52.54         -15.66         68.20         43.84         34.49         6.70         32.49         Peak            11000.000         46.11         -7.89         54.00         30.65         38.60         9.23         32.37         Average            11000.000         57.33         -16.67         74.00         41.87         38.60         9.23         32.37         Peak            16500.000         48.29         -19.91         68.20         30.15         37.90         12.18         31.94         Average

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)

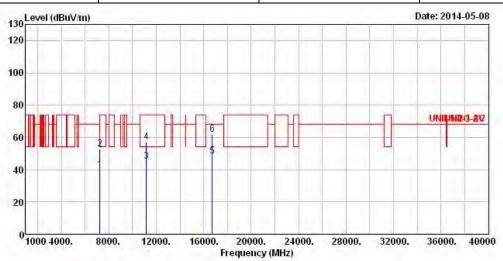
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5580					
$N_{TX}$	2	Polarization	V					



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Ċm	deg
1	7248.000	40.04	-28.16	68.20	29.54	35.92	7.23	32.65	Average		
2	7248.000	52.76	-15.44	68.20	42.26	35.92	7.23	32.65	Peak	444	1444
3	11160.000	44.90	-9.10	54.00	28.95	38.77	9.54	32.36	Average		1444
4	11160.000	56.95	-17.05	74.00	41.00	38.77	9.54	32.36	Peak	1222	222
5	16740.000	48.26	-19.94	68.20	29.21	39.11	11.58	31.64	Average		
6	16740.000	61.80	-6.40	68.20	42.75	39.11	11.58	31.64	Peak	1444	444

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)

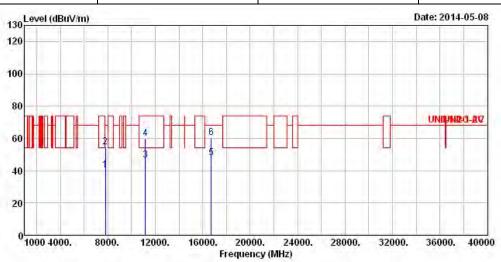
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5580					
N <sub>TX</sub>	2	Polarization	Н					



	Freq	Level	0∨er Limit	Limit Line		Antenna Factor		5 TO 1 TO 1 TO 1 TO 1		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		- in	deg
1	7818.000	40.18	-28.02	68.20	28.13	36.82	8.00	32.77	Average		
2	7818.000	54.59	-13.61	68.20	42.54	36.82	8.00	32.77	Peak	444	1444
3	11160.000	46.45	-7.55	54.00	30.50	38.77	9.54	32.36	Average		
4	11160.000	59.87	-14.13	74.00	43.92	38.77	9.54	32.36	Peak	1224	224
5	16740.000	48.08	-20.12	68.20	29.03	39.11	11.58	31.64	Average		
6	16740.000	60.23	-7.97	68.20	41.18	39.11	11.58	31.64	Peak	222	444

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)

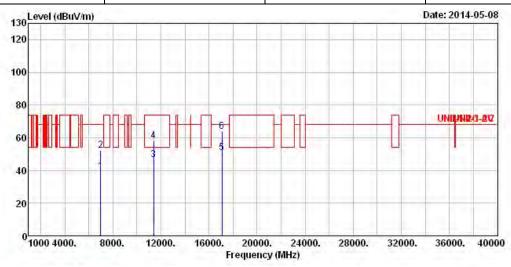
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5700					
$N_{TX}$	2	Polarization	V					



	Freq	Level	Over Limit			Antenna Factor		Action to the second		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	——dB	-	cm	deg
1	6996.000	39.22	-28.98	68.20	29.45	35.30	7.05	32.58	Average	1995	11999
2	6996.000	52.25	-15.95	68.20	42.48	35.30	7.05	32.58	Peak		
3	11400.000	46.37	-7.63	54.00	29.80	39.00	9.92	32.35	Average		
4	11400.000	58.03	-15.97	74.00	41.46	39.00	9.92	32.35	Peak		
5	17100.000	50.71	-17.49	68.20	29.56	41.16	11.33	31.34	Average		
6	17100.000	63.57	-4.63	68.20	42.42	41.16	11.33	31.34	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.)

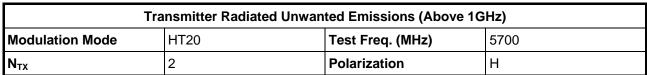
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

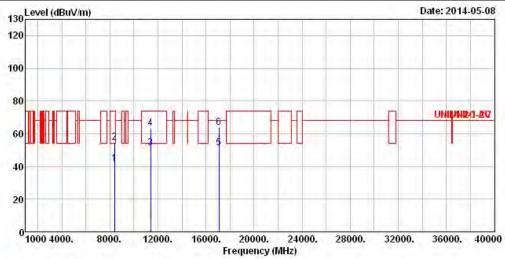
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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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	Freq	Level	0∨er Limit	Limit Line		Antenna Factor		Acres of Spirit Street		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	,	CIII	deg
1	8400.000	41.51	-12.49	54.00	28.40	37.87	8.05	32.81	Average		
2	8400.000	54.49	-19.51	74.00	41.38	37.87	8.05	32.81	Peak		
3	11400.000	51.25	-2.75	54.00	34.68	39.00	9.92	32.35	Average	1666	
4	11400.000	63.44	-10.56	74.00	46.87	39.00	9.92	32.35	Peak		
5	17100.000	51.36	-16.84	68.20	30.21	41.16	11.33	31.34	Average	1.000	1.000
6	17100.000	63.59	-4.61	68.20	42.44	41.16	11.33	31.34	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)

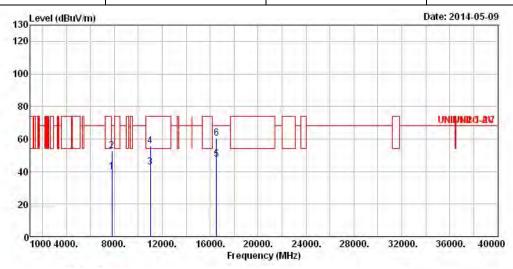
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5510								
$N_{TX}$	2	Polarization	V								



	Freq	Le∨el	Over Limit	Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7818.000	39.91	-28.29	68.20	27.86	36.82	8.00	32.77	Average	1222	(222
2	7818.000	53.00	-15.20	68.20	40.95	36.82	8.00	32.77	Peak		1.444
3	11020.000	42.74	-11.26	54.00	27.20	38.62	9.29	32.37	Average	222	1222
4	11020.000	55.50	-18.50	74.00	39.96	38.62	9.29	32.37	Peak	777	1227
5	16530.000	47.63	-20.57	68.20	29.38	38.07	12.09	31.91	Average	1222	224
6	16530.000	60.52	-7.68	68.20	42.27	38.07	12.09	31.91	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)

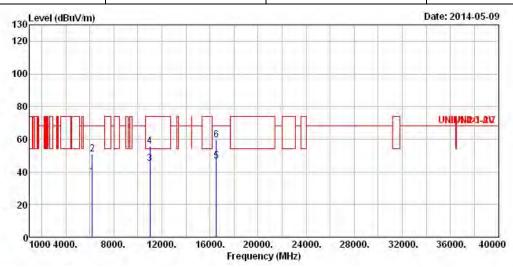
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	HT40	Test Freq. (MHz)	5510
$N_{TX}$	2	Polarization	Н



	Freq	Freq Level				ReadAntenna .evel Factor		10000		A/Pos	T/Pos
	MHz	dBuV/m	——dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	6210.000	36.95	-31.25	68.20	28.50	34.28	6.63	32.46	Average		
2	6210.000	50.88	-17.32	68.20	42.43	34.28	6.63	32.46	Peak		
3	11020.000	45.12	-8.88	54.00	29.58	38.62	9.29	32.37	Average		
4	11020.000	55.62	-18.38	74.00	40.08	38.62	9.29	32.37	Peak	1.444	
5	16530.000	46.74	-21.46	68.20	28.49	38.07	12.09	31.91	Average		
6	16530.000	59.70	-8.50	68.20	41.45	38.07	12.09	31.91	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)

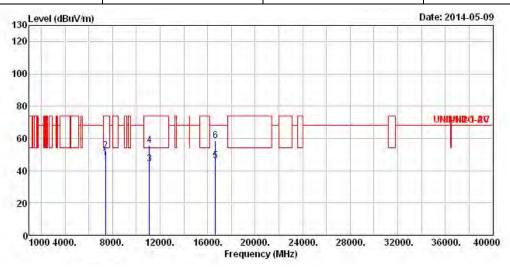
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	HT40	Test Freq. (MHz)	5550
$N_{TX}$	2	Polarization	V

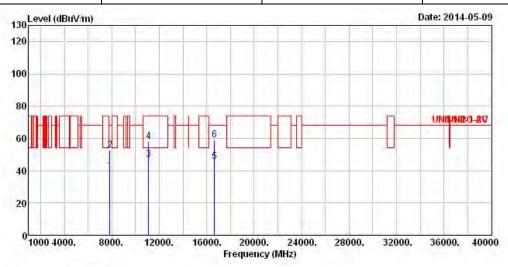


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Ċm	deg
1	7398.000	47.82	-6.18	54.00	36.92	36.25	7.34	32.69	Average		
2	7398.000	52.48	-21.52	74.00	41.58	36.25	7.34	32.69	Peak	222	1222
3	11100.000	44.16	-9.84	54.00	28.40	38.70	9.42	32.36	Average	***	
4	11100.000	55.79	-18.21	74.00	40.03	38.70	9.42	32.36	Peak	1224	222
5	16650.000	45.94	-22.26	68.20	27.16	38.68	11.84	31.74	Average		555
6	16650.000	58.68	-9.52	68.20	39.90	38.68	11.84	31.74	Peak	222	222

- 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	HT40	Test Freq. (MHz)	5550
N <sub>TX</sub>	2	Polarization	Н



1 7824.6	req	Level	0∨er Limit	Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
2 7024 4	000	39.94	-28.26	68.20	27.89	36.82	8.00	32.77	Average		
2 7824.6	000	52.68	-15.52	68.20	40.63	36.82	8.00	32.77	Peak	222	1000
3 11100.0	000	46.94	-7.06	54.00	31.18	38.70	9.42	32.36	Average		***
4 11100.6	000	57.98	-16.02	74.00	42.22	38.70	9.42	32.36	Peak	422	222
5 16650.6	000	45.68	-22.52	68.20	26.90	38.68	11.84	31.74	Average		
6 16650.6	000	59.02	-9.18	68.20	40.24	38.68	11.84	31.74	Peak	222	222

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)

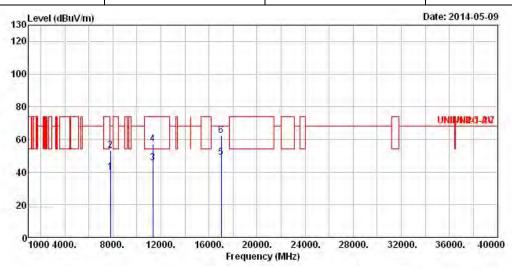
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	HT40	Test Freq. (MHz)	5670
$N_{TX}$	2	Polarization	V



	Freq	Le∨el	Over Limit	Limit Line		Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7812.000	39.93	-28.27	68.20	27.88	36.82	8.00	32.77	Average	1222	1224
2	7812.000	53.11	-15.09	68.20	41.06	36.82	8.00	32.77	Peak	494	
3	11340.000	45.75	-8.25	54.00	29.38	38.93	9.79	32.35	Average	444	
4	11340.000	57.29	-16.71	74.00	40.92	38.93	9.79	32.35	Peak		
5	17010.000	49.08	-19.12	68.20	28.71	40.53	11.16	31.32	Average	1224	1224
6	17010.000	62.23	-5.97	68.20	41.86	40.53	11.16	31.32	Peak	444	444

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)

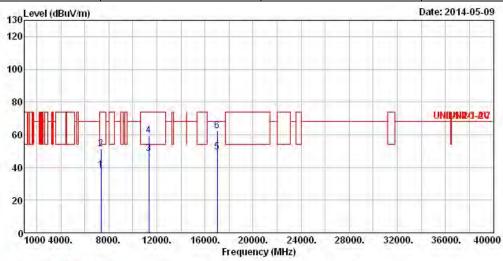
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	Modulation Mode HT40 Test Freq. (MHz) 5670										
$N_{TX}$	2	Polarization	Н								



	Freq	Level	0∨er Limit			Antenna Factor		Action of State Street		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	——dB	-	cm	deg
1	7350.000	38.46	-15.54	54.00	27.66	36.17	7.31	32.68	Average	1.000	
2	7350.000	51.36	-22.64	74.00	40.56	36.17	7.31	32.68	Peak		
3	11340.000	48.48	-5.52	54.00	32.11	38.93	9.79	32.35	Average		
4	11340.000	59.50	-14.50	74.00	43.13	38.93	9.79	32.35	Peak		
5	17010.000	49.37	-18.83	68.20	29.00	40.53	11.16	31.32	Average	1.666	
6	17010.000	62.33	-5.87	68.20	41.96	40.53	11.16	31.32	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.

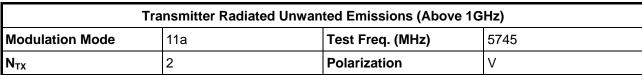
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

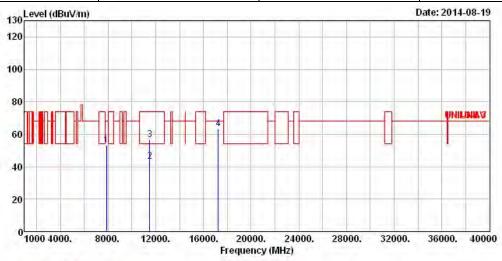
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR430452-03AN



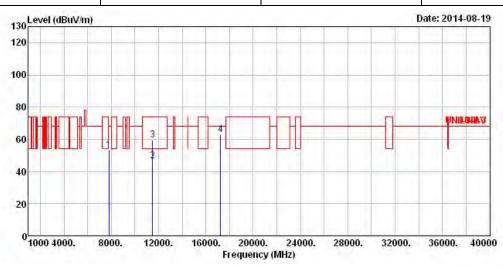


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	- :	deg
1	7878.00	53.23	-14.97	68.20	41.06	36.88	8.07	32.78	Peak		
2	11490.00	43.39	-10.61	54.00	26.61	39.08	10.04	32.34	Average	1.666	1.000
3	11490.00	56.59	-17.41	74.00	39.81	39.08	10.04	32.34	Peak		
4	17235.00	63.40	-4.80	68.20	41.02	42.17	11.59	31.38	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 Rac	liated Unwanted Emissions (Above 1	GHz)
Modulation Mode	11a	Test Freq. (MHz)	5745
N <sub>TX</sub>	2	Polarization	Н



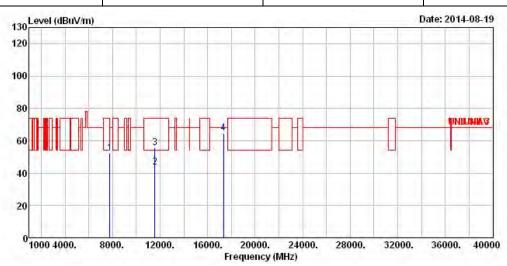
		Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	Cm	deg
7818.00	53.14	-15.06	68.20	41.09	36.82	8.00	32.77	Peak		
11490.00	46.64	-7.36	54.00	29.86	39.08	10.04	32.34	Average		
11490.00	59.53	-14.47	74.00	42.75	39.08	10.04	32.34	Peak		
17235.00	62.71	-5.49	68.20	40.33	42.17	11.59	31.38	Peak		
	7818.00 11490.00 11490.00	7818.00 53.14 11490.00 46.64 11490.00 59.53	Freq Level Limit  MHz dBuV/m dB  7818.00 53.14 -15.06 11490.00 46.64 -7.36 11490.00 59.53 -14.47	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  7818.00 53.14 -15.06 68.20 11490.00 46.64 -7.36 54.00 11490.00 59.53 -14.47 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  7818.00 53.14 -15.06 68.20 41.09 11490.00 46.64 -7.36 54.00 29.86 11490.00 59.53 -14.47 74.00 42.75	Freq         Level         Limit         Line         Level         Factor           MHz         dBuV/m         dB uV/m         dBuV/m         dBuV         dBuV/m           7818.00         53.14 - 15.06         68.20         41.09         36.82           11490.00         46.64 - 7.36         54.00         29.86         39.08           11490.00         59.53 - 14.47         74.00         42.75         39.08	Freq         Level         Limit         Line         Level         Factor         Loss           MHz         dBuV/m         dB uV/m         dBuV/m         dBuV         dB/m         dB           7818.00         53.14 - 15.06         68.20         41.09         36.82         8.00           11490.00         46.64 - 7.36         54.00         29.86         39.08         10.04           11490.00         59.53 - 14.47         74.00         42.75         39.08         10.04	Freq         Level         Limit         Line         Level         Factor         Loss         Factor           MHz         dBuV/m         dB         dBuV/m         dBuV         dB/m         dB         dB           7818.00         53.14         -15.06         68.20         41.09         36.82         8.00         32.77           11490.00         46.64         -7.36         54.00         29.86         39.08         10.04         32.34           11490.00         59.53         -14.47         74.00         42.75         39.08         10.04         32.34	Freq Level Limit Line Level Factor Loss Factor Remark  MHz dBuV/m dB dBuV/m dBuV dB/m dB dB	Freq         Level         Limit         Line         Level         Factor         Loss Factor         Remark           MHz         dBuV/m         dB         dBuV/m         dB         dB         dB         cm           7818.00         53.14         -15.06         68.20         41.09         36.82         8.00         32.77         Peak            11490.00         46.64         -7.36         54.00         29.86         39.08         10.04         32.34         Average            11490.00         59.53         -14.47         74.00         42.75         39.08         10.04         32.34         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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-	Fransmitter Radiat	ed Unwanted Emissions (Above	1GHz)
Modulation Mode	11a	Test Freq. (MHz)	5785
N <sub>TX</sub>	2	Polarization	V

Report No.: FR430452-03AN



	Freq	Level	Over Limit			Antenna Factor		Section of the second		A/Pos	T/Pos
,	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	7776.00	52.51	-15.69	68.20	40.56	36.78	7.93	32.76	Peak	1222	224
2	11570.00	43.51	-10.49	54.00	26.68	39.14	10.04	32.35	Average	555	555
3	11570.00	55.66	-18.34	74.00	38.83	39.14	10.04	32.35	Peak	222	222
4	17355.00	64.64	-3.56	68.20	41.14	43.06	11.85	31.41	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.

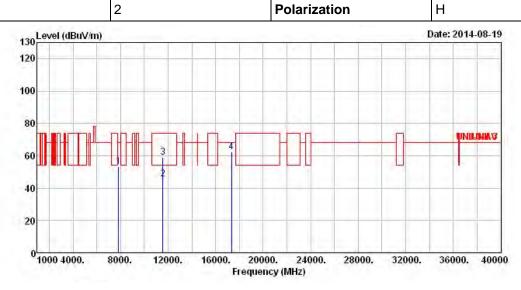
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5785

N<sub>TX</sub> 2 Polarization H

Report No.: FR430452-03AN



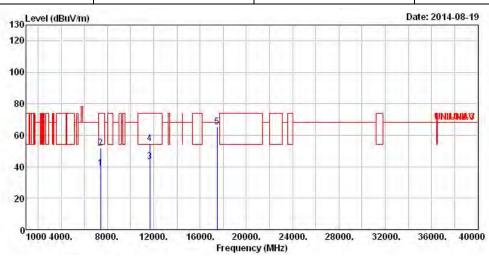
	Freq	Level	Over Limit			Antenna Factor		and be districted to		A/Pos	T/Pos
,	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7836.00	53.15	-15.05	68.20	41.09	36.83	8.00	32.77	Peak	1222	224
2	11570.00	45.66	-8.34	54.00	28.83	39.14	10.04	32.35	Average	555	
3	11570.00	58.86	-15.14	74.00	42.03	39.14	10.04	32.35	Peak	222	222
4	17355.00	62.16	-6.04	68.20	38.66	43.06	11.85	31.41	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	11a	Test Freq. (MHz)	5825
N <sub>TX</sub>	2	Polarization	V

Report No.: FR430452-03AN

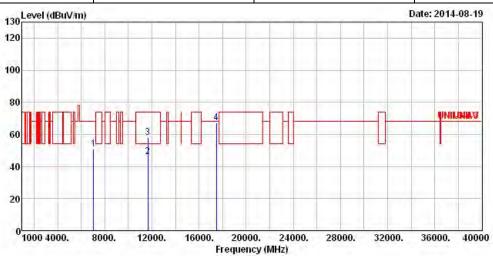


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
,	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	7422.00	38.63	-15.37	54.00	27.63	36.33	7.37	32.70	Average	(444	1994
2	7422.00	52.02	-21.98	74.00	41.02	36.33	7.37	32.70	Peak	454	664
3	11650.00	43.00	-11.00	54.00	26.15	39.18	10.03	32.36	Average	222	222
4	11650.00	54.89	-19.11	74.00	38.04	39.18	10.03	32.36	Peak	444	444
5	17475.00	65.26	-2.94	68.20	40.65	43.95	12.11	31.45	Peak		444

- 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							
$N_{TX}$	2	Polarization	Н							



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		- :	deg
1	7050.00	51.01	-17.19	68.20	41.10	35.42	7.08	32.59	Peak		
2	11650.00	46.14	-7.86	54.00	29.29	39.18	10.03	32.36	Average	1.666	
3	11650.00	57.97	-16.03	74.00	41.12	39.18	10.03	32.36	Peak		
4	17475.00	67.09	-1.11	68.20	42.48	43.95	12.11	31.45	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.

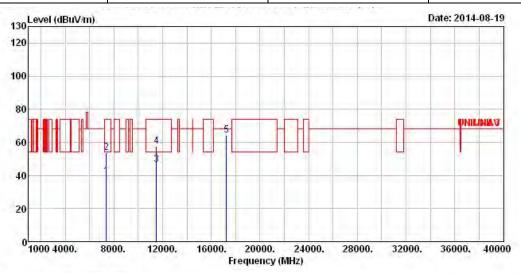
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

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

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Report No. : FR430452-03AN	

Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	5745								
N <sub>TX</sub>	2	Polarization	V								

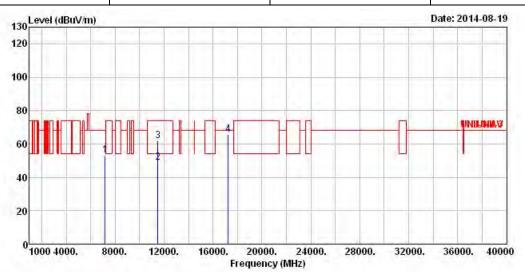


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	7392.00	39.28	-14.72	54.00	28.38	36.25	7.34	32.69	Average		222
2	7392.00	53.52	-20.48	74.00	42.62	36.25	7.34	32.69	Peak		
3	11490.00	46.64	-7.36	54.00	29.86	39.08	10.04	32.34	Average	224	224
4	11490.00	57.67	-16.33	74.00	40.89	39.08	10.04	32.34	Peak	1.664	
5	17235.00	64.06	-4.14	68.20	41.68	42.17	11.59	31.38	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)	5745								
$N_{TX}$	2	Polarization	Н								



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	20,0163	7.6.7.10.7
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7198.00	53.39	-14.81	68.20	43.03	35.80	7.20	32.64	Peak		+++
2	11490.00	48.95	-5.05	54.00	32.17	39.08	10.04	32.34	Average	444	444
3	11490.00	62.09	-11.91	74.00	45.31	39.08	10.04	32.34	Peak	-	
4	17235.00	65.55	-2.65	68.20	43.17	42.17	11.59	31.38	Peak	1444	1224

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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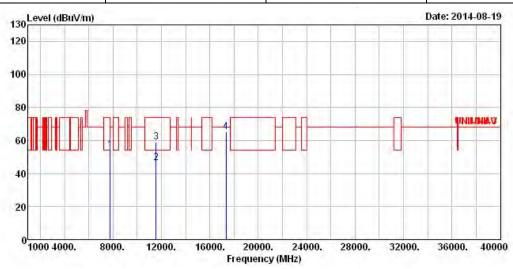


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5785

N<sub>TX</sub> 2 Polarization V

Report No.: FR430452-03AN



	Freq	Le∨el	0∨er Limit	Limit Line		Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	7758.00	53.99	-14.21	68.20	42.12	36.77	7.86	32.76	Peak	+++	
2	11570.00	46.31	-7.69	54.00	29.48	39.14	10.04	32.35	Average	444	1444
3	11570.00	58.81	-15.19	74.00	41.98	39.14	10.04	32.35	Peak		1777
4	17355.00	65.27	-2.93	68.20	41.77	43.06	11.85	31.41	Peak	444	224

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)

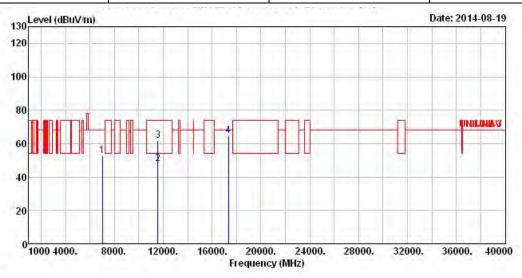
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5785								
$N_{TX}$	N <sub>TX</sub> 2 Polarization H										



	Freq	Level	Over Limit			Antenna Factor		Section of the sectio		A/Pos	T/Pos
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	7020.00	52.69	-15.51	68.20	42.89	35.34	7.05	32.59	Peak	222	222
2	11570.00	48.11	-5.89	54.00	31.28	39.14	10.04	32.35	Average		
3	11570.00	61.85	-12.15	74.00	45.02	39.14	10.04	32.35	Peak	224	224
4	17355.00	64.80	-3.40	68.20	41.30	43.06	11.85	31.41	Peak		
	2, 223.00	0,.00	2.40	00.20			05	~	, com	1.0.0.1	

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)

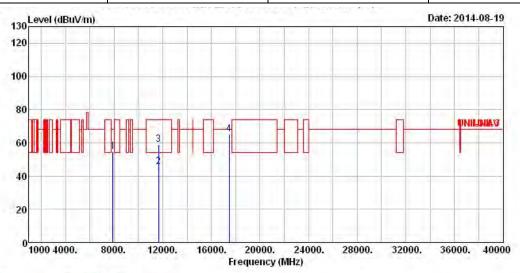
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5825							
$N_{TX}$	N <sub>TX</sub> 2 Polarization V									

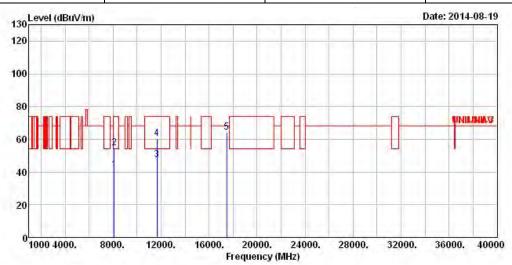


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7890.00	54.62	-13.58	68.20	42.38	36.88	8.14	32.78	Peak	222	222
2	11650.00	45.42	-8.58	54.00	28.57	39.18	10.03	32.36	Average	444	
3	11650.00	59.17	-14.83	74.00	42.32	39.18	10.03	32.36	Peak	224	222
4	17475.00	65.45	-2.75	68.20	40.84	43.95	12.11	31.45	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 <sub>TX</sub>	2	Polarization	Н								



	Freq	Level	Over Limit	Limit Line		Antenna Factor		20 July 1 200 80		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8100.00	41.09	-12.91	54.00	28.44	37.23	8.22	32.80	Average		
2	8100.00	54.89	-19.11	74.00	42.24	37.23	8.22	32.80	Peak	444	1000
3	11650.00	47.72	-6.28	54.00	30.87	39.18	10.03	32.36	Average		
4	11650.00	60.63	-13.37	74.00	43.78	39.18	10.03	32.36	Peak	1222	222
5	17475.00	64.29	-3.91	68.20	39.68	43.95	12.11	31.45	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)

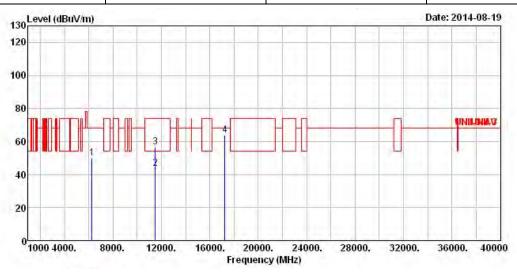
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5755				
$N_{TX}$	2	Polarization	V				

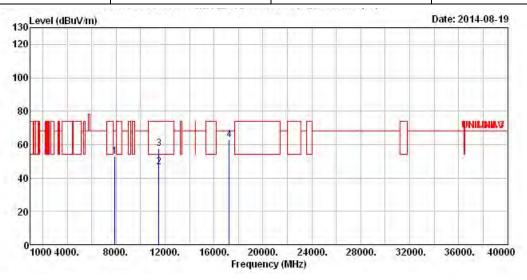


	Freq	Level	0∨er Limit	Limit Line		Antenna Factor				A/Pos	T/Pos
		dBuV/m		dBuV/m	dBuV	_	dB	——dB			deg
1	6270.00	49.92	-18.28	68.20	41.44	34.31	6.63	32.46	Peak		.+++
2	11510.00	43.57	-10.43	54.00	26.77	39.10	10.04	32.34	Average	444	1444
3	11510.00	56.66	-17.34	74.00	39.86	39.10	10.04	32.34	Peak		
4	17265.00	63.94	-4.26	68.20	41.22	42.43	11.68	31.39	Peak	224	224

- 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)	5755				
$N_{TX}$	2	Polarization	Н				



	Freq	Level	Over Limit			Antenna Factor		Contract Con		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7896.00	52.90	-15.30	68.20	40.64	36.90	8.14	32.78	Peak	222	222
2	11510.00	46.35	-7.65	54.00	29.55	39.10	10.04	32.34	Average		***
3	11510.00	57.61	-16.39	74.00	40.81	39.10	10.04	32.34	Peak	222	222
4	17265.00	63.00	-5.20	68.20	40.28	42.43	11.68	31.39	Peak		555

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)

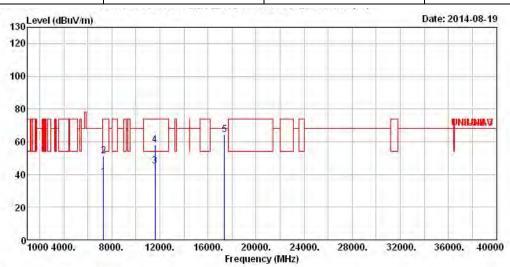
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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)	5795				
$N_{TX}$	2	Polarization	V				

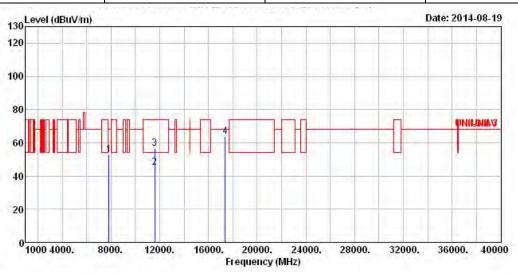


	Freq	Level	Over Limit			Antenna Factor		Section Section 1		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7314.00	38.33	-15.67	54.00	27.68	36.04	7.28	32.67	Average	222	222
2	7314.00	51.24	-22.76	74.00	40.59	36.04	7.28	32.67	Peak		
3	11590.00	45.26	-8.74	54.00	28.43	39.15	10.03	32.35	Average	222	224
4	11590.00	57.95	-16.05	74.00	41.12	39.15	10.03	32.35	Peak		
5	17385.00	64.48	-3.72	68.20	40.66	43.31	11.94	31.43	Peak	222	202

- 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)	5795				
$N_{TX}$	2	Polarization	Н				



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	cm	deg
1	7842.00	52.77	-15.43	68.20	40.71	36.83	8.00	32.77	Peak		222
2	11590.00	44.98	-9.02	54.00	28.15	39.15	10.03	32.35	Average	444	
3	11590.00	56.66	-17.34	74.00	39.83	39.15	10.03	32.35	Peak	222	224
4	17385.00	63.62	-4.58	68.20	39.80	43.31	11.94	31.43	Peak	-555	-555

- 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 UNII Devices ☐ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. IEEE Std. 802.11n-2009 ☐ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

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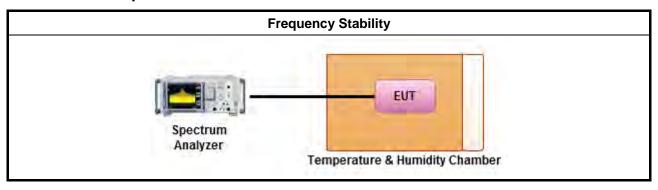
#### 3.7.2 Measuring Instruments

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

#### 3.7.3 Test Procedures

	Test Method								
$\boxtimes$	Refer 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	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									
Мо	de	Frequency S	Stability (ppm)						
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)						
T <sub>20°C</sub> Vmax	5180	5180.00300	0.5792						
T <sub>20°C</sub> Vmin	5180	5180.00300	0.5792						
T <sub>50°C</sub> Vnom	5180	5179.98080	-3.7066						
T <sub>40°C</sub> Vnom	5180	5179.98260	-3.3591						
T <sub>30°C</sub> Vnom	5180	5179.99280	-1.3900						
T <sub>20°C</sub> Vnom	5180	5180.00300	0.5792						
T <sub>10°C</sub> Vnom	5180	5180.01620	3.1274						
T <sub>0°C</sub> Vnom	5180	5180.02520	4.8649						
T <sub>-10°C</sub> Vnom	5180	5180.02640	5.0965						
T <sub>-20°C</sub> Vnom	5180	5180.02880	5.5598						
Limit (ppm)			20						
Result		Cor	nplied						

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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 1.1.5 for EUT operational condition.

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# 4 Test Equipment and Calibration Data

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

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Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101013	9kHz ~ 40GHz	Jan. 25, 2014	RF conducted
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 15, 2014	RF conducted
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-00 7	-20 ~ 100°C	Nov. 20, 2013	RF conducted
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jul. 31, 2014	RF conducted

Note: Calibration Interval of instruments listed above is one year.

#### Radiated Below 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 29, 2014	Radiation
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Apr. 02, 2015	Radiation
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 20, 2014	Radiation
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 15, 2014	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Feb. 02, 2015	Radiation

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#### Radiated Above 1GHz

#### <For Bnad 1~Band 3 Test use>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Aug. 20, 2013	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 31, 2013	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 11, 2013	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

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Note: Calibration Interval of instruments listed above is one year.

#### <For Band 4 Test use>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation
Horn Antenna	ETS · LINDGREN	3115	6741	1GHz ~ 18GHz	Jun. 11, 2014	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 11, 2013	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	Oct. 17, 2013	Radiation

Note: Calibration Interval of instruments listed above is two year.

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