Equipment

: Sophos Wireless Access Point AP100

Brand Name

Sophos

Model No.

: AP 100

FCC ID

: 2ACTO-AP100

Standard

: 47 CFR FCC Part 15.407

Operating Band

: 5150 MHz - 5250 MHz

5725 MHz - 5850 MHz

FCC Classification: NII

Applicant

: Sophos Ltd

The Pentagon, Abingdon, OX14 3YP, United Kingdom

Manufacturer

: Edimax Technology Co., Ltd.

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

New Taipei City 24891, Taiwan R.O.C.

Function

Outdoor AP; Indoor AP; Fixed P2P AP

Portable Client

The product sample received on Jul. 01, 2014 and completely tested on Aug. 07, 2014. 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:

Assistant Manager

1190

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Summary of Test Result

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

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Revision History

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Report No.	Version	Description	Issued Date
FR462324AN	Rev. 01	Initial issue of report	Sep. 25, 2014

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1 General Description

1.1 Information

1.1.1 RF General Information

	RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	Co-location
5150-5250		5180-5240	36-48 [4]	1	23.71	Yes
5725-5850	а	5745-5825	149-165 [5]	1	21.33	Yes
5150-5250	n (HT20)	5180-5240	36-48 [4]	3/3	26.74 / 26.78	Yes
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	3/3	21.06 / 20.70	Yes
5150-5250	n (HT40)	5190-5230	38-46 [2]	3/3	27.24 / 27.29	Yes
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	3/3	22.98 / 22.99	Yes
5150-5250	oo (\/UT00\	5210	48 [1]	3	17.40	Yes
5725-5850	ac (VHT80)	5775	155 [1]	3	14.87	Yes

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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.

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

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

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1.1.2 Antenna Information

	Antenna Category			
\boxtimes	External antenna (antenna permanently attached)			
	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					
No.	Ant. Cat.	Ant. Type	Gain (dBi)			
1	External	Dipole	2.58			
2			2.58			
3			2.58			

Remark:

- 1. 11a only include 1TX and Port1 for emission. 2. HT20 and HT40 only include 3TX and Data Rate are MCS0 \sim MCS23.
- 3. VHT20 only include 3TX and Data Rate are MCS0 ~ MCS8.
- 4. VHT40 and VHT80 only include 3TX and Data Rate are MCS0 ~ MCS9.

1.1.3 Type of EUT

	Identify EUT				
EU	Γ Serial Number	N/A			
Pre	sentation of Equipment	☐ Production ; ☐ Pre-Production ; ☐ Prototype			
		Type of EUT			
\boxtimes	Stand-alone				
	Combined (EUT where the	ne 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				
\boxtimes	100% - IEEE 802.11ac (VHT20)	0				
\boxtimes	100% - IEEE 802.11ac (VHT40)	0				
\boxtimes	100% - IEEE 802.11ac (VHT80)	0				

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1.1.5 EUT Operational Condition

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

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1.2 Support Equipment

Support Equipment - AC Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	
2	PoE	Customer provide	Customer provide	-	
3	Notebook (Remote)	DELL	E5530	DoC	
4	Wireless AP (Remote)	Logitec	BR-6675NDS	DoC	
5	UTM (Remote)	SOPHOS	UTM110/120	DoC	

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	Support Equipment - RF Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID		
1	Notebook	DELL	E5520	-		

	Support Equipment - Radiated Emission					
No.	Equipment	Brand Name	Model Name	FCC ID		
1	Adapter	APD	DA-48T12	-		
2	PoE (Remote)	Customer provide	Customer provide	-		
3	Notebook (Remote)	DELL	E5530	DoC		
4	HUB (Remote)	DELL	Power Connect 2816	DoC		
5	UTM (Remote)	SOPHOS	UTM110/120	DoC		

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1.3 Testing Applied Standards

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

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- 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

1.4 Testing Location Information

	Testing Location					
\boxtimes	HWA YA ADD : No. 52, Hwa Ya 1 st 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 Environment
AC Conduction				CO04-HY	Zeus	24°C / 45%
RF Conducted				TH06-HY	Cain	23.1°C / 60%
Radiated Emission				03CH02-HY	Daniel	24.5°C / 61%

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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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Me	easurement 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	±0.5 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 _{TX})	Data Rate / MCS	Worst Data Rate / MCS		
11a	1	6-54Mbps	6 Mbps		
HT20	3	MCS 0-23	MCS 0		
HT40	3	MCS 0-23	MCS 0		
VHT20	3	MCS 0-8	MCS 0		
VHT40	3	MCS 0-9	MCS 0		
VHT80	3	MCS 0-9	MCS 0		

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Test Software Version				DOS Co	mmand		
				Test Fred	quency (MH	z)	
Modulation Mode	N _{TX}	ı	NCB: 20MHz NC			40MHz	NCB: 80MHz
		5180	5200	5240	5190	5230	5210
11a	1	20.5	22.5	22.5	-	-	-
HT20	3	17	20	20.5	-	-	-
HT40	3	-	-	-	14	21.5	-
VHT20	3	17	20	20.5	-	-	-
VHT40	3	-	-	-	14	21.5	-
VHT80	3	-	-	-	-	-	12

The Worst Case Power Setting Parameter (5725-5850MHz band)							
Test Software Version				DOS Co	mmand		
				Test Fred	quency (MH	z)	
Modulation Mode	N_{TX}		NCB: 20MHz NCB: 40M				NCB: 80MHz
		5745	5785	5825	5755	5795	5775
11a	1	20	22	20	-	-	-
HT20	3	17	16.5	16.5	-	-	-
HT40	3	-	-	-	15	19	-
VHT20	3	17	16	16	-	-	-
VHT40	3	-	-	-	15	19	-
VHT80	3	-	-	-	-	-	11

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2.3 The Worst Case Measurement Configuration

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

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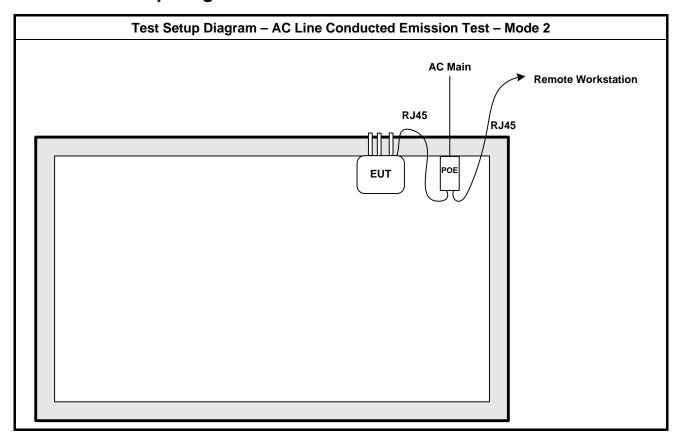
The Worst Case Mode for Following Conformance Tests		
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion, Transmitter Conducted Unwanted Emissions Transmitter Conducted Bandedge Emissions	
Test Condition	Conducted measurement at transmit chains	
Modulation Mode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

The Worst Case Mode for Following Conformance Tests				
Tests Item	Transmitter Radiated Unwanted Emissic Transmitter Radiated Bandedge Emissic	ons		
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	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is Z.			
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.			
Operating Mode	Operating Mode Description			
1	EUT with AC power (Transmitter)			
2	EUT with PoE (Transmitter)			
For operating mode 2 is th	ne worst case and it was record in this test report.			
Operating Mode > 1GHz	Operating Mode Description			
1	EUT with AC power (Transmitter)			
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT8	30		
	X Plane	Z Plane		
Orthogonal Planes of EUT				

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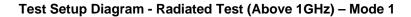
2.4 Test Setup Diagram

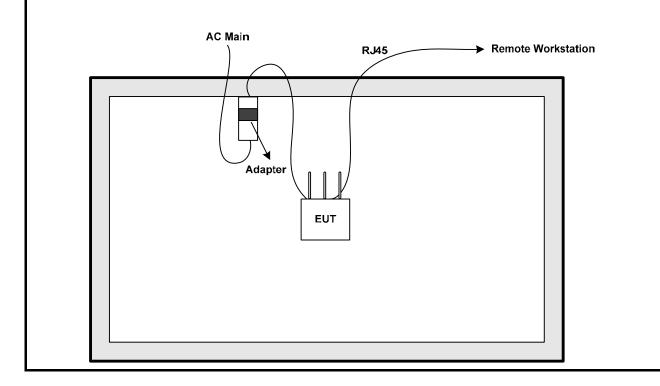


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Test Setup Diagram - Radiated Test (Below 1GHz) - Mode 2 Remote Workstation RJ45 EUT





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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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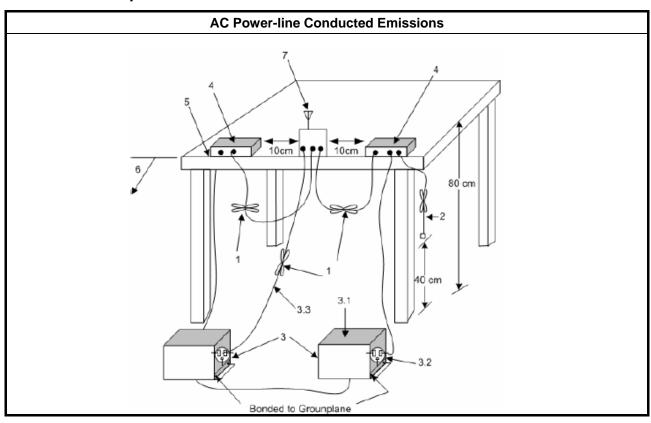
3.1.2 Measuring Instruments

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.

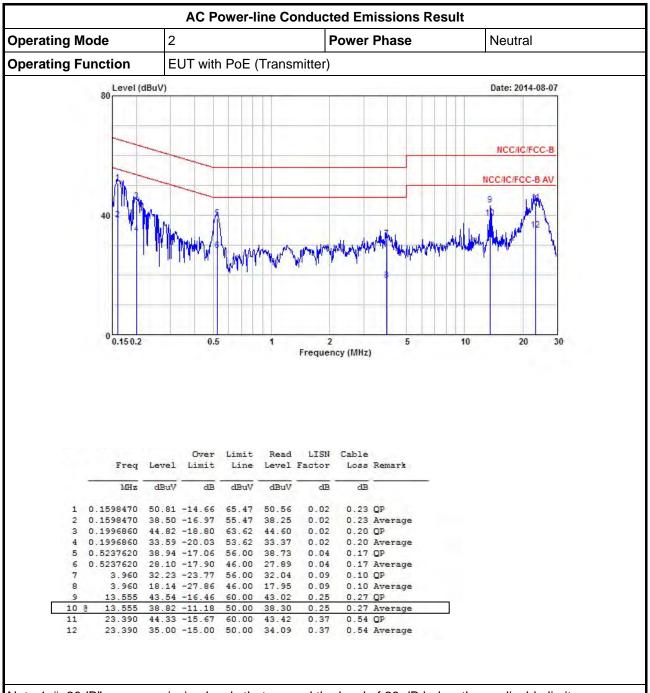
3.1.4 Test Setup



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3.1.5 Test Result of AC Power-line Conducted Emissions



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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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AC Power-line Conducted Emissions Result Operating Mode Power Phase Line **Operating Function** EUT with PoE (Transmitter) Date: 2014-08-07 NCC/IC/FCC-B NCC/IC/FCC-B AV 20 0.15 0.2 0.5 Frequency (MHz) Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.1615500 48.72 -16.66 65.38 48.46 0.03 0.23 QP 0.1615500 36.72 -18.66 55.38 36.46 0.03 0.23 Average 0.2050460 39.15 -24.25 63.40 38.92 0.20 QP 0.2050460 25.71 -27.69 53.40 25.48 0.20 Average 0.5182420 36.91 -19.09 56.00 36.70 0.04 0.17 QP 6 0.5182420 34.69 -11.31 46.00 34.48 0.04 0.17 Average

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

0.10

0.10

0.24

0.13 QP

0.27 QP

0.54 QP

0.13 Average

0.27 Average

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

23.390 33.25 -16.75 50.00 32.35 0.36 0.54 Average

3.680 26.63 -29.37 56.00 26.40

13.555 37.52 -12.48 50.00 37.01 0.24 23.390 39.09 -20.91 60.00 38.19 0.36

3.680 19.67 -26.33 46.00 19.44

13.555 42.12 -17.88 60.00 41.61

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3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

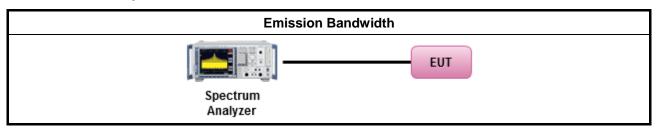
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

	Test Method						
\boxtimes	Fort	the e	mission bandwidth shall be measured using one of the options below:				
	\boxtimes	Ref	er as FCC KDB 789033 D02 v01, clause C for EBW and clause D for OBW measurement.				
		Ref	er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.				
		Ref	er as IC RSS-Gen, clause 4.6 for bandwidth testing.				
\boxtimes	For	cond	ucted measurement.				
	\boxtimes	The port	EUT supports single transmit chain and measurements performed on this transmit chain 1.				
		The	EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.				
	\boxtimes	The	EUT supports multiple transmit chains using options given below:				
			Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.				
			Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.				

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3.2.4 Test Setup



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3.2.5 Test Result of Emission Bandwidth

	UNII Emission Bandwidth Result (5150-5250MHz band)									
Condit	ion			Emission Bandwidth (MHz)						
Mandadada Manda		Freq.		99% Bandwidtl	า	2	26dB Bandwidt	h		
Modulation Mode	N _{TX}	(MHz)	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 1	Chain- Port 2	Chain- Port 3		
11a	1	5180	16.71	-	-	20.52	-	-		
11a	1	5200	16.59	-	-	21.55	-	-		
11a	1	5240	16.71	-	-	21.27	-	-		
HT20	3	5180	17.76	17.84	17.96	21.95	21.05	22.65		
HT20	3	5200	17.89	17.91	17.89	20.95	21.12	21.20		
HT20	3	5240	17.96	17.96	17.79	21.92	21.17	21.00		
HT40	3	5190	36.70	36.78	36.54	44.84	45.68	44.24		
HT40	3	5230	36.66	36.70	36.66	46.60	44.80	44.72		
VHT20	3	5180	17.84	17.71	17.86	21.10	20.65	22.15		
VHT20	3	5200	17.74	17.79	17.84	21.00	22.12	21.47		
VHT20	3	5240	17.94	17.94	17.74	21.85	21.62	20.92		
VHT40	3	5190	36.78	36.66	36.58	46.08	44.08	43.88		
VHT40	3	5230	36.70	36.66	36.62	45.32	44.92	44.56		
VHT80	3	5210	75.88	75.80	75.72	86.16	87.20	84.16		
Resu	ılt			•	Com	plied				

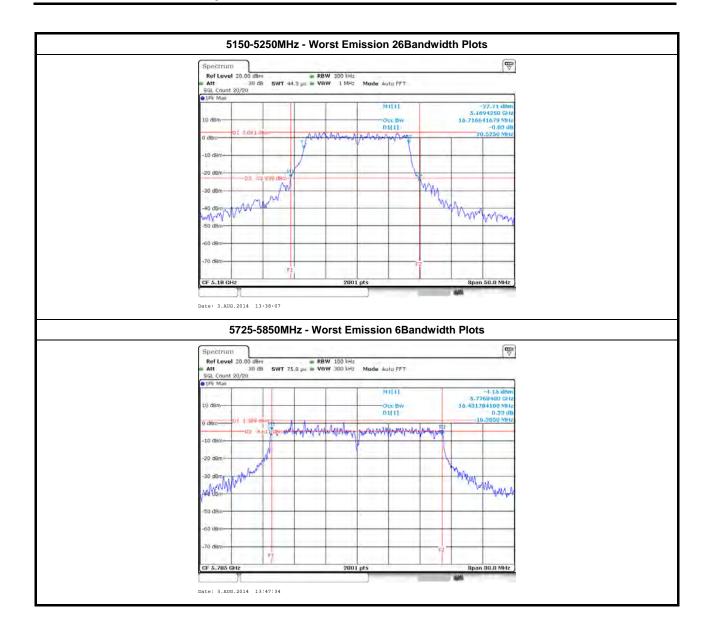
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Condit	ion				Emission Bar	ndwidth (MHz)		
Modulation Mode	N _{TX}	Freq.		99% Bandwidtl	า		6dB Bandwidtl	า
Modulation Mode	INTX	(MHz)	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 1	Chain- Port 2	Chain- Port 3
11a	1	5745	16.50	-	-	16.53	-	-
11a	1	5785	16.43	-	-	16.30	-	-
11a	1	5825	16.43	-	-	16.39	-	-
HT20	3	5745	17.64	17.69	17.70	17.71	17.77	17.74
HT20	3	5785	17.64	17.64	17.61	17.70	17.68	17.62
HT20	3	5825	17.64	17.66	17.64	17.67	17.71	17.71
HT40	3	5755	36.22	36.18	36.18	36.40	36.40	36.40
HT40	3	5795	36.18	36.26	36.18	36.36	36.48	36.36
VHT20	3	5745	17.60	17.66	17.66	17.65	17.77	17.74
VHT20	3	5785	17.67	17.69	17.67	17.71	17.65	17.76
VHT20	3	5825	17.66	17.69	17.67	17.79	17.79	17.70
VHT40	3	5755	36.18	36.26	36.14	36.36	36.52	36.36
VHT40	3	5795	36.18	36.26	36.22	35.32	36.36	36.44
VHT80	3	5775	75.56	75.32	75.72	76.48	76.16	76.16
Limit			- ≥ 500 kHz					
Result			Complied					

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3.3 RF Output Power

3.3.1 RF Output Power Limit

	Maximum Conducted Output Power Limit
UNI	I Devices
\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 $P_{Out} = 30 - (G_{TX} - 23)$.
	Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
	For the 5.725-5.85 GHz band:
	$\begin{tabular}{ll} \hline \square & 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 $P_{Out} = 30 - (G_{TX} - 6)$. }$
	$\hfill \square$ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
	= maximum conducted output power in dBm,= the 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.

3.3.3 Test Procedures

		Test Method						
\boxtimes	Maximum Conducted Output Power							
	[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)						

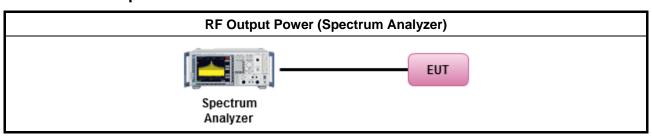
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	Wid	eband RF power meter and average over on/off periods with duty factor
		Refer as FCC KDB 789033 D02 v01, clause E Method PM (using an RF average power meter).
\boxtimes	For	conducted measurement.
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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									
Transmit Chai	ns No.	1	2	3	-				
Maximum G _{AN}	_T (dBi)	2.58	2.58	2.58	-				
Modulation Mode	DG (dBi) (See the Note 3)	N _{TX}	N _{ss} (Min.)	STBC	Array Gain (dB)				
11a	2.58	1	1	-	-				
HT20	7.35	3	1/2/3	-	4.77				
HT40	7.35	3	1/2/3	-	4.77				
VHT20	7.35	3	1/2/3	-	4.77				
VHT40	7.35	3	1/2/3	-	4.77				
VHT80	7.35	3	1/2/3	-	4.77				

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- Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = G_{ANT} + 10 log(N_{TX})

 All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}
- Note 2: 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}]
- Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}), where Nss = the number of independent spatial streams data.
- Note 4: For CDD transmissions, directional gain is calculated as power measurements: Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows: Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \le 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths \geq 40 MHz for any N_{TX};

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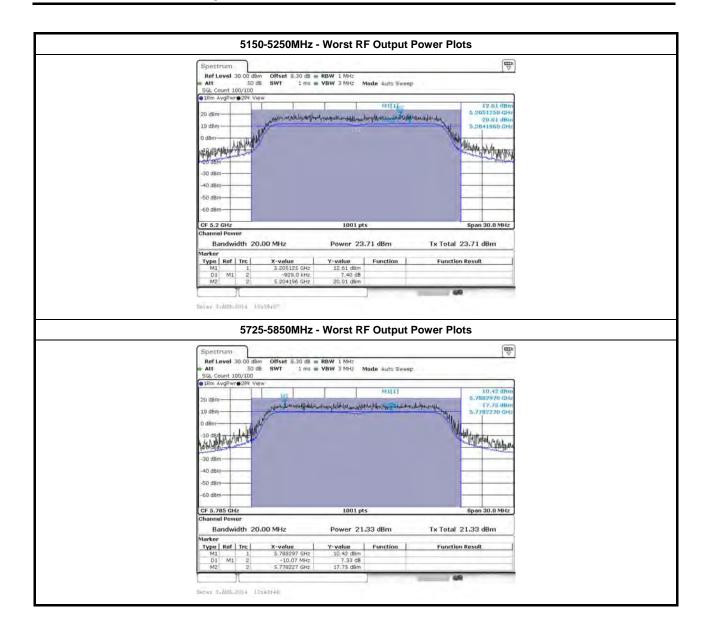
3.3.6 Test Result of Maximum Conducted Output Power

		Maxim	um Conducte	ed Output Po	wer (5150-52	50MHz band)		
		- From		Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Antenna Gain (dBi)	Power Limit
11a	1	5180	22.01	=	-	22.01	2.58	30.00
11a	1	5200	23.71	=	-	23.71	2.58	30.00
11a	1	5240	23.48	=	-	23.48	2.58	30.00
HT20	3	5180	18.19	20.24	17.54	23.59	7.35	28.65
HT20	3	5200	21.46	23.26	20.75	26.73	7.35	28.65
HT20	3	5240	21.53	23.31	20.64	26.74	7.35	28.65
HT40	3	5190	14.65	16.22	13.92	19.81	7.35	28.65
HT40	3	5230	22.17	23.64	21.27	27.24	7.35	28.65
VHT20	3	5180	18.25	20.43	16.75	23.51	7.35	28.65
VHT20	3	5200	21.55	23.39	20.62	26.78	7.35	28.65
VHT20	3	5240	21.61	23.37	20.47	26.75	7.35	28.65
VHT40	3	5190	14.73	16.26	14.01	19.87	7.35	28.65
VHT40	3	5230	22.24	23.66	21.33	27.29	7.35	28.65
VHT80	3	5210	12.11	13.91	11.49	17.40	7.35	28.65
Resu	Result					Complied		

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		Maxim	um Conducte	ed Output Po	wer (5725-58	50MHz band)		
		F===	Output Power (dBm)				Antonno Coin	
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Antenna Gain (dBi)	Power Limit
11a	1	5745	18.43	-	-	18.43	2.58	30.00
11a	1	5785	21.33	-	-	21.33	2.58	30.00
11a	1	5825	19.14	-	-	19.14	2.58	30.00
HT20	3	5745	15.68	16.64	15.29	20.68	7.35	28.65
HT20	3	5785	16.28	17.73	13.95	21.02	7.35	28.65
HT20	3	5825	16.05	17.74	14.48	21.06	7.35	28.65
HT40	3	5755	13.93	14.68	13.15	18.74	7.35	28.65
HT40	3	5795	18.17	19.33	16.75	22.98	7.35	28.65
VHT20	3	5745	15.85	16.73	15.05	20.70	7.35	28.65
VHT20	3	5785	15.75	17.25	13.26	20.49	7.35	28.65
VHT20	3	5825	15.57	17.23	13.42	20.45	7.35	28.65
VHT40	3	5755	13.85	14.69	13.24	18.74	7.35	28.65
VHT40	3	5795	18.19	19.36	16.71	22.99	7.35	28.65
VHT80	3	5775	10.07	11.21	8.66	14.87	7.35	28.65
Resu					Complied			

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3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

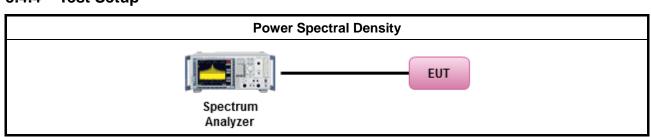
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3.4.3 Test Procedures

		Test Method						
	outpo funct	s power spectral density procedures that the same method as used to determine the conducted ut power shall be used to determine the peak power spectral density and use the peak search ion 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 o	conducted measurement.						
		The EUT supports single transmit chain and measurements performed on this transmit chain port 1.						
		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:						
		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 + + PPSD_n $ (calculated in linear unit [mW] and transfer to log unit [dBm]) $ EIRP_{total} = PPSD_{total} + DG $						
		Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.						

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3.4.4 Test Setup



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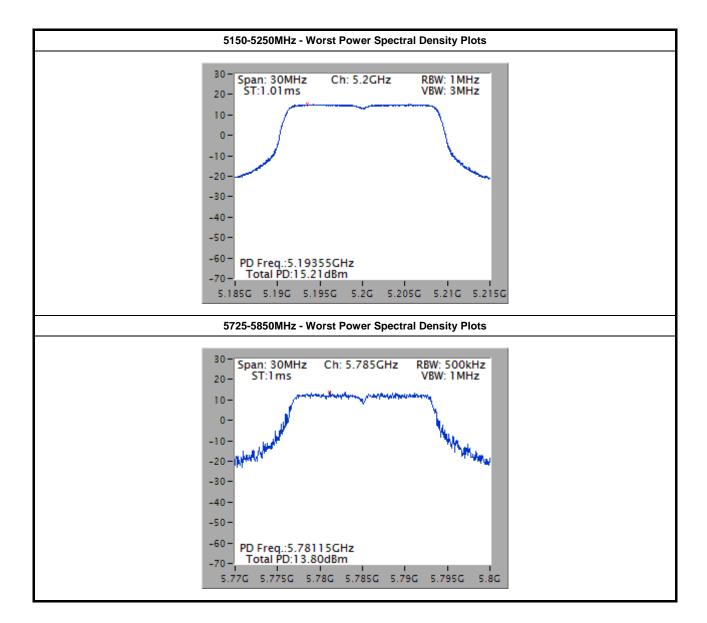
3.4.5 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5150-5250MHz band)								
Modulation Mode	N _{TX}	Freq. (MHz)	Peak Power Spectral Density (dBm)	PSD Limit	Antenna Gain (dBi)			
11a	1	5180	11.05	17.00	2.58			
11a	1	5200	12.61	17.00	2.58			
11a	1	5240	12.36	17.00	2.58			
HT20	3	5180	11.95	15.65	7.35			
HT20	3	5200	15.16	15.65	7.35			
HT20	3	5240	15.19	15.65	7.35			
HT40	3	5190	5.09	15.65	7.35			
HT40	3	5230	12.49	15.65	7.35			
VHT20	3	5180	11.83	15.65	7.35			
VHT20	3	5200	15.21	15.65	7.35			
VHT20	3	5240	15.12	15.65	7.35			
VHT40	3	5190	5.23	15.65	7.35			
VHT40	3	5230	12.58	15.65	7.35			
VHT80 3 5210		-0.30 15.65		7.35				
Result			Complied					

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	Peak Power Spectral Density Result (5725-5850MHz band)									
Modulation Mode	N _{TX}	Freq. (MHz)	Peak Power Spectral Density (dBm)	PSD Limit (500kHz)	Antenna Gain (dBi)					
11a	1	5745	11.20	30.00	2.58					
11a	1	5785	13.80	30.00	2.58					
11a	1	5825	11.82	30.00	2.58					
HT20	3	5745	12.22	28.65	7.35					
HT20	3	5785	12.49	28.65	7.35					
HT20	3	5825	12.72	28.65	7.35					
HT40	3	5755	7.61	28.65	7.35					
HT40	3	5795	11.81	28.65	7.35					
VHT20	3	5745	12.48	28.65	7.35					
VHT20	3	5785	12.06	28.65	7.35					
VHT20	3	5825	12.29	28.65	7.35					
VHT40	3	5755	7.67	28.65	7.35					
VHT40	3	5795	12.22	28.65	7.35					
VHT80 3 5775		1.12 28.65		7.35						
Result			Complied							

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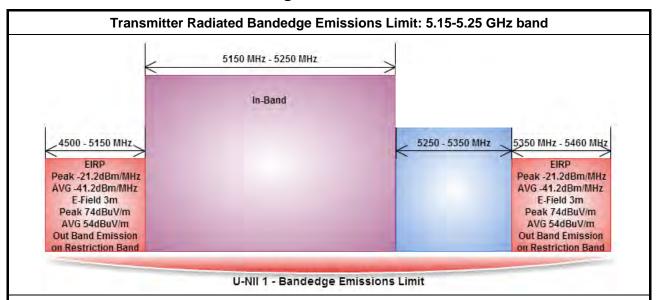


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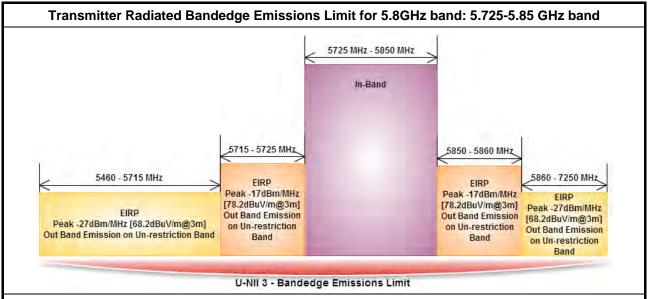
3.5 Transmitter Bandedge Emissions

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.

3.5.2 Measuring Instruments

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

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3.5.3 Test Procedures

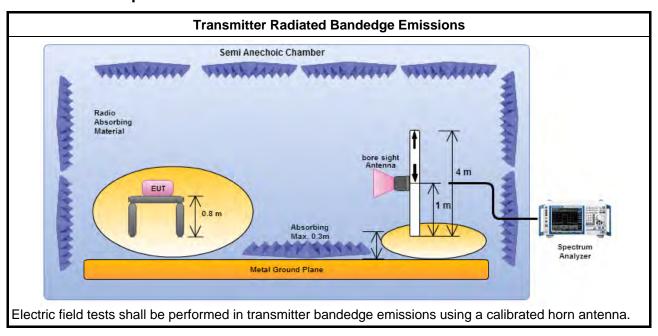
		Test Method					
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].					
	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.						
	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)						
		Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).					
		Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).					
	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)						
		Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).					
		Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).					
\boxtimes	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.					
		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 the transmitter bandedge emissions shall be measured using following options below:						
		Refer as FCC KDB 789033 D02 v01, clause G)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	radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.					
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.						

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Test Setup 3.5.4



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3.5.5 Transmitter Radiated Bandedge Emissions (with Antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5180	3	5147.60	68.16	74	5150.00	52.58	54	V
11a	1	5240	3	5354.40	60.12	74	5356.20	46.72	54	V
HT20	3	5180	3	5149.40	70.16	74	5150.00	52.77	54	V
HT20	3	5240	3	5389.80	61.25	74	5389.20	47.73	54	V
HT40	3	5190	3	5149.94	67.20	74	5149.94	52.74	54	V
HT40	3	5230	3	5373.00	62.19	74	5373.60	47.46	54	V
VHT20	3	5180	3	5149.40	69.13	74	5151.00	52.72	54	V
VHT20	3	5240	3	5377.80	60.71	74	5375.40	47.26	54	V
VHT40	3	5190	3	5149.94	67.88	74	5149.94	52.86	54	V
VHT40	3	5230	3	5364.60	61.51	74	5371.80	47.59	54	V
VHT80	3	5210	3	5149.50	67.15	74	5149.50	52.50	54	V
VHT80	3	5210	3	5353.80	57.35	74	5353.20	44.00	54	V

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Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Pol.
11a	1	5745	3	5723.71	72.12	78.2	V
11a	1	5825	3	5851.75	71.85	78.2	V
HT20	3	5745	3	5724.76	75.89	78.2	V
HT20	3	5825	3	5849.97	75.17	78.2	V
HT40	3	5755	3	5724.10	76.23	78.2	V
HT40	3	5795	3	5850.10	70.86	78.2	V
VHT20	3	5745	3	5724.97	76.03	78.2	V
VHT20	3	5825	3	5879.97	74.23	78.2	V
VHT40	3	5755	3	5723.84	77.06	78.2	V
VHT40	3	5795	3	5851.00	71.85	78.2	V
VHT80	3	5775	3	5725.06	75.70	78.2	V
VHT80	3	5775	3	5849.80	62.93	78.2	V

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3.6 Transmitter Unwanted Emissions

3.6.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

Un-restricted band emissions above 1GHz Limit				
Operating Band	Limit			
5.15 - 5.25 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]			
5.725 - 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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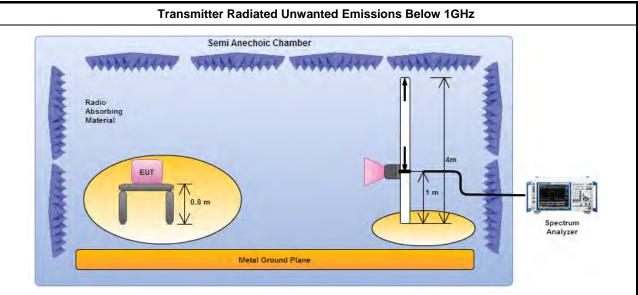
FCC Test Report No.: FR462324AN

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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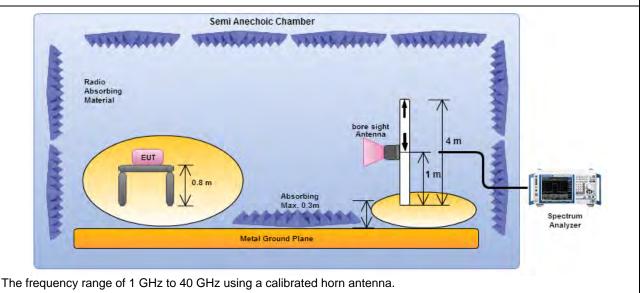
3.6.4 Test Setup



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

Transmitter Radiated Unwanted Emissions Above 1GHz

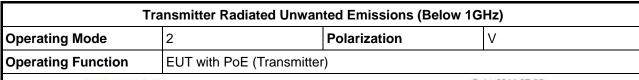


3.6.5 Transmitter Radiated Unwanted Emissions-with Antenna (Below 30MHz)

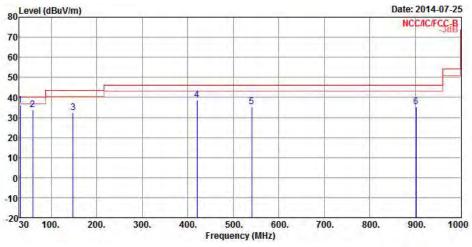
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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Transmitter Radiated Unwanted Emissions (Below 1GHz)



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	Freq	Level	Over Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
1-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.94	36.06	-3.94	40.00	45.50	17.57	0.76	27.77	OP		
2	59.10	33.82	-6.18	40.00	53.55	6.76	1.06	27.55	Peak		
3	148.34	32.48	-11.02	43.50	47.61	10.71	1.76	27.60	Peak		
4	419.94	38.60	-7.40	46.00	46.79	16.82	3.00	28.01	Peak		
5	540.22	35.50	-10.50	46.00	42.19	18.30	3.47	28.46	Peak		22-
6	901.06	35.25	-10.75	46.00	37.88	20.59	4.55	27.77	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.

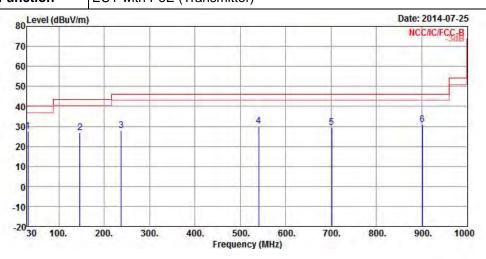
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Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode 2 Polarization H

Operating Function EUT with PoE (Transmitter)

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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	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.94	27.68	-12.32	40.00	37.12	17.57	0.76	27.77	Peak		
2	146.40	26.69	-16.81	43.50	41.91	10.64	1.74	27.60	Peak		
3	237.58	27.81	-18.19	46.00	41.58	11.29	2.26	27.32	Peak		
4	540.22	30.22	-15.78	46.00	36.91	18.30	3.47	28.46	Peak		65-6
5	701.24	29.58	-16.42	46.00	34.84	19.03	4.01	28.30	Peak		
6	901.06	30.95	-15.05	46.00	33.58	20.59	4.55	27.77	Peak		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.)

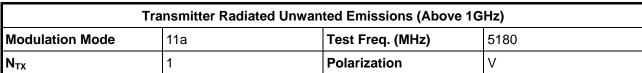
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

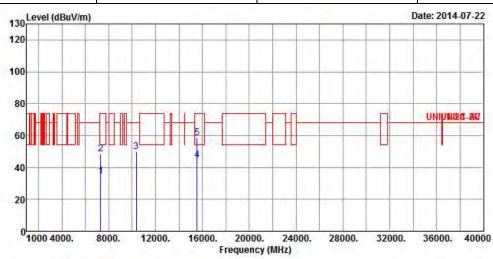
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN





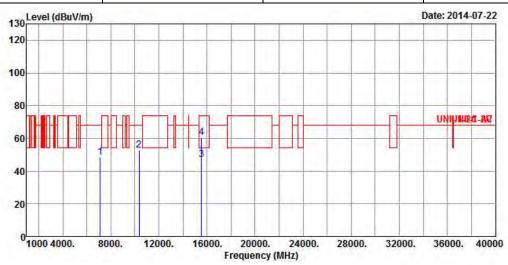
			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7300.00	34.41	-19.59	54.00	28.01	35.88	5.47	34.95	Average		
2	7300.00	48.65	-25.35	74.00	42.25	35.88	5.47	34.95	Peak		
3	10360.00	50.03	-18.17	68.20	41.55	37.15	6.38	35.05	Peak		
4	15540.00	44.39	-9.61	54.00	31.07	40.16	7.99	34.83	Average		
5	15540.00	58.50	-15.50	74.00	45.18	40.16	7.99	34.83	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.: FR462324AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	11a	Test Freq. (MHz)	5180							
N _{TX}	1	Polarization	Н							



						Antenna				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	7120.00	48.46	-19.74	68.20	42.20	35.95	5.23	34.92	Peak		
2	10360.00	52.81	-15.39	68.20	44.33	37.15	6.38	35.05	Peak		
3	15540.00	47.21	-6.79	54.00	33.89	40.16	7.99	34.83	Average		
4	15540.00	60.55	-13.45	74.00	47.23	40.16	7.99	34.83	Peak		

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

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

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

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

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

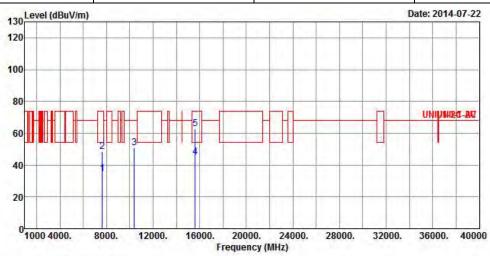
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11a	Test Freq. (MHz)	5200						
N _{TX}	1	Polarization	V						

Report No.: FR462324AN



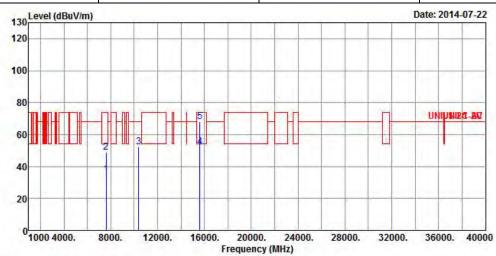
	Fund	10001		Limit				and the second		A/Pos	T/Pos
	Freq	rever	Limit	Line	rever	Factor	LOSS	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7640.00	34.69	-19.31	54.00	28.34	35.77	5.61	35.03	Average	1445	
2	7640.00	48.42	-25.58	74.00	42.07	35.77	5.61	35.03	Peak		
3	10400.00	50.63	-17.57	68.20	42.12	37.16	6.35	35.00	Peak	444	
4	15600.00	44.89	-9.11	54.00	31.56	40.29	7.96	34.92	Average		
5	15600.00	62.81	-11.19	74.00	49.48	40.29	7.96	34.92	Peak	335	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	11a	Test Freq. (MHz)	5200							
N _{TX}	1	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			deg
1	7620.00	34.78	-19.22	54.00	28.42	35.78	5.61	35.03	Average	446	1226
2	7620.00	49.16	-24.84	74.00	42.80	35.78	5.61	35.03	Peak		
3	10400.00	52.42	-15.78	68.20	43.91	37.16	6.35	35.00	Peak	-44	
4	15600.00	52.31	-1.69	54.00	38.98	40.29	7.96	34.92	Average		
5	15600.00	68.04	-5.96	74.00	54.71	40.29	7.96	34.92	Peak	145	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.

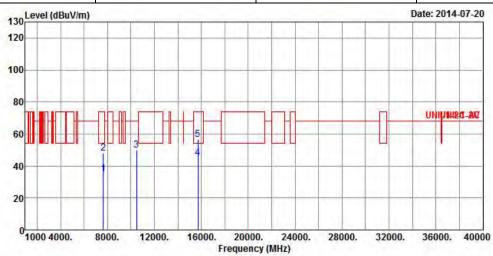
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11a	Test Freq. (MHz)	5240						
N _{TX}	1	Polarization	V						

Report No.: FR462324AN



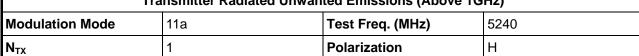
Freq	Level								A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
7644.00	34.83	-19.17	54.00	28.49	35.77	5.61	35.04	Average		222
7644.00	48.01	-25.99	74.00	41.67	35.77	5.61	35.04	Peak		
10480.00	50.02	-18.18	68.20	41.46	37.19	6.30	34.93	Peak	444	
15720.00	45.08	-8.92	54.00	31.75	40.50	7.86	35.03	Average		
15720.00	56.57	-17.43	74.00	43.24	40.50	7.86	35.03	Peak	1444	
	MHz 7644.00 7644.00 10480.00 15720.00	MHz dBuV/m 7644.00 34.83 7644.00 48.01 10480.00 50.02 15720.00 45.08	Freq Level Limit MHz dBuV/m dB 7644.00 34.83 -19.17 7644.00 48.01 -25.99 10480.00 50.02 -18.18 15720.00 45.08 -8.92	Freq Level Limit Line MHz dBuV/m dB dBuV/m 7644.00 34.83 -19.17 54.00 54.00 7644.00 48.01 -25.99 74.00 74.00 10480.00 50.02 -18.18 68.20 68.20 15720.00 45.08 -8.92 54.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 7644.00 34.83 -19.17 54.00 28.49 7644.00 48.01 -25.99 74.00 41.67 10480.00 50.02 -18.18 68.20 41.46 15720.00 45.08 -8.92 54.00 31.75	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 7644.00 34.83 -19.17 54.00 28.49 35.77 7644.00 48.01 -25.99 74.00 41.67 35.77 10480.00 50.02 -18.18 68.20 41.46 37.19 15720.00 45.08 -8.92 54.00 31.75 40.50	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 7644.00 34.83 -19.17 54.00 28.49 35.77 5.61 7644.00 48.01 -25.99 74.00 41.67 35.77 5.61 10480.00 50.02 -18.18 68.20 41.46 37.19 6.30 15720.00 45.08 -8.92 54.00 31.75 40.50 7.86	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 7644.00 34.83 -19.17 54.00 28.49 35.77 5.61 35.04 7644.00 48.01 -25.99 74.00 41.67 35.77 5.61 35.04 10480.00 50.02 -18.18 68.20 41.46 37.19 6.30 34.93 15720.00 45.08 -8.92 54.00 31.75 40.50 7.86 35.03	MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 7644.00 34.83 -19.17 54.00 28.49 35.77 5.61 35.04 Average 7644.00 48.01 -25.99 74.00 41.67 35.77 5.61 35.04 Peak 10480.00 50.02 -18.18 68.20 41.46 37.19 6.30 34.93 Peak 15720.00 45.08 -8.92 54.00 31.75 40.50 7.86 35.03 Average	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dB dB dB dB dB cm 7644.00 34.83 -19.17 54.00 28.49 35.77 5.61 35.04 Average 7644.00 48.01 -25.99 74.00 41.67 35.77 5.61 35.04 Peak 10480.00 50.02 -18.18 68.20 41.46 37.19 6.30 34.93 Peak 15720.00 45.08 -8.92 54.00 31.75 40.50 7.86 35.03 Average

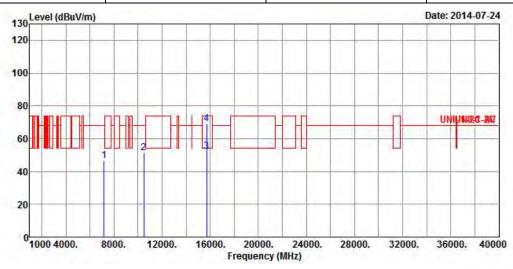
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

Report No.: FR462324AN





	Freq	Level				Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7180.00	46.39	-21.81	68.20	40.11	35.92	5.28	34.92	Peak		
2	10480.00	51.14	-17.06	68.20	42.58	37.19	6.30	34.93	Peak		444
3	15720.00	52.24	-1.76	54.00	38.91	40.50	7.86	35.03	Average		
4	15720.00	68.94	-5.06	74.00	55.61	40.50	7.86	35.03	Peak		

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

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

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

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

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

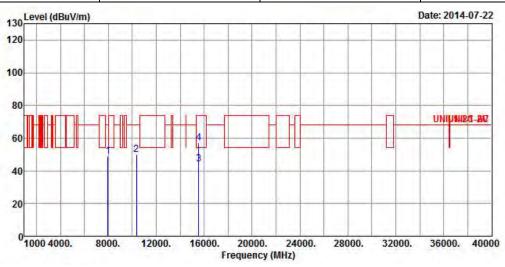
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN



	Freq	Level		Limit Line						A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	- cm	deg
1	7960.00	48.86	-19.34	68.20	42.95	35.71	5.34	35.14	Peak		200
2	10360.00	50.03	-18.17	68.20	41.55	37.15	6.38	35.05	Peak	1.55	
3	15540.00	44.37	-9.63	54.00	31.05	40.16	7.99	34.83	Average		
4	15540.00	57.10	-16.90	74.00	43.78	40.16	7.99	34.83	Peak		

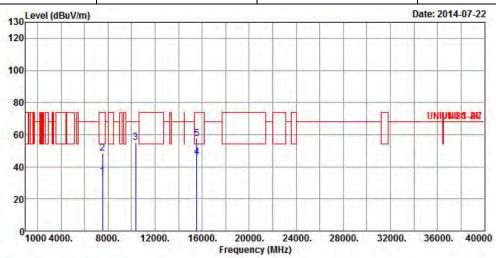
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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

Report No.: FR462324AN



			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	7540.00	34.15	-19.85	54.00	27.68	35.79	5.68	35.00	Average	1.202	
2	7540.00	48.29	-25.71	74.00	41.82	35.79	5.68	35.00	Peak	1.55	1000
3	10360.00	55.26	-12.94	68.20	46.78	37.15	6.38	35.05	Peak		
4	15540.00	46.22	-7.78	54.00	32.90	40.16	7.99	34.83	Average		
5	15540.00	57.78	-16.22	74.00	44.46	40.16	7.99	34.83	Peak		

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

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

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

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

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

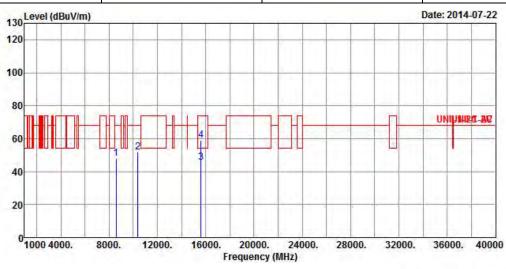
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode HT20 Test Freq. (MHz) 5200								
N _{TX}	3	Polarization	V					

Report No.: FR462324AN



			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	8600.00	47.76	-20.44	68.20	41.35	35.94	5.58	35.11	Peak	(444)	244
2	10400.00	51.95	-16.25	68.20	43.44	37.16	6.35	35.00	Peak		
3	15600.00	45.35	-8.65	54.00	32.02	40.29	7.96	34.92	Average		
4	15600.00	58.95	-15.05	74.00	45.62	40.29	7.96	34.92	Peak		

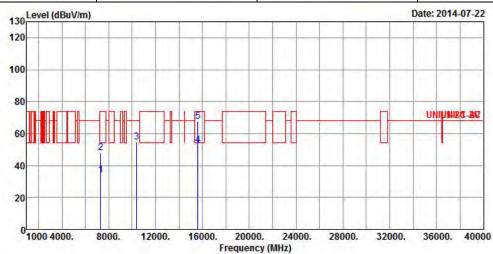
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

Report No.: FR462324AN



	Freq	Level		Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7320.00	34.29	-19.71	54.00	27.91	35.87	5.47	34.96	Average	444	444
2	7320.00	48.11	-25.89	74.00	41.73	35.87	5.47	34.96	Peak		
3	10400.00	54.90	-13.30	68.20	46.39	37.16	6.35	35.00	Peak		
4	15600.00	52.55	-1.45	54.00	39.22	40.29	7.96	34.92	Average		
5	15600.00	67.87	-6.13	74.00	54.54	40.29	7.96	34.92	Peak		

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

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

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

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

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

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

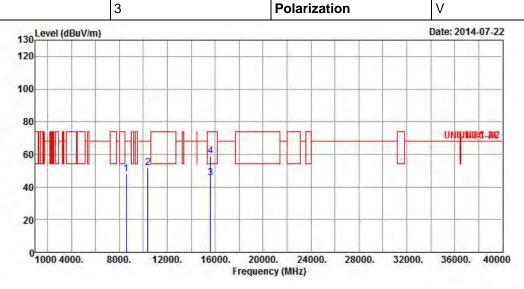
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5240

N_{TX} 3 Polarization V

Report No.: FR462324AN



			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	8600.00	47.76	-20.44	68.20	41.35	35.94	5.58	35.11	Peak	222	244
2	10400.00	51.95	-16.25	68.20	43.44	37.16	6.35	35.00	Peak		
3	15600.00	45.35	-8.65	54.00	32.02	40.29	7.96	34.92	Average		
4	15600.00	58.95	-15.05	74.00	45.62	40.29	7.96	34.92	Peak		

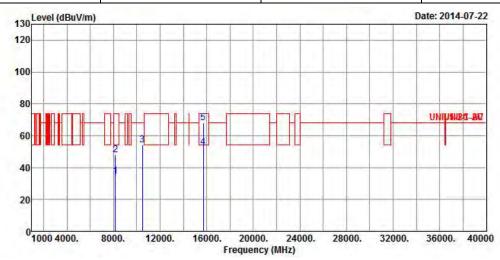
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

Report No.: FR462324AN



	Freq	Level				Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8160.00	34.52	-19.48	54.00	28.53	35.76	5.37	35.14	Average		. 222
2	8160.00	47.95	-26.05	74.00	41.96	35.76	5.37	35.14	Peak	1.55	
3	10480.00	54.41	-13.79	68.20	45.85	37.19	6.30	34.93	Peak		
4	15720.00	52.63	-1.37	54.00	39.30	40.50	7.86	35.03	Average		
5	15720.00	68.06	-5.94	74.00	54.73	40.50	7.86	35.03	Peak	1	

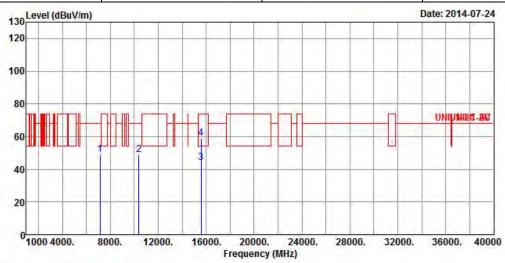
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode HT40 Test Freq. (MHz) 5190								
N_{TX}	3	Polarization	V					

Report No.: FR462324AN



			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	7157.00	49.03	-19.17	68.20	42.73	35.94	5.28	34.92	Peak	(222)	
2	10380.00	48.84	-19.36	68.20	40.37	37.15	6.35	35.03	Peak		
3	15570.00	44.29	-9.71	54.00	30.97	40.22	7.96	34.86	Average		
4	15570.00	58.83	-15.17	74.00	45.51	40.22	7.96	34.86	Peak		

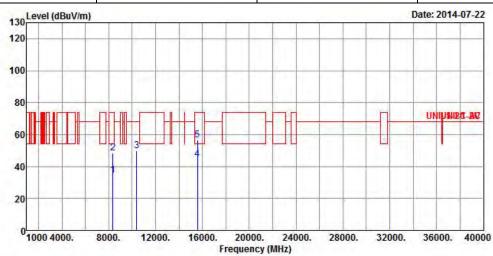
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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) 5190										
N _{TX}	3	Polarization	Н							

Report No.: FR462324AN



	0.00	. 7				Antenna		23 4		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	8346.00	34.34	-19.66	54.00	28.19	35.84	5.42	35.11	Average	2,22	
2	8346.00	48.32	-25.68	74.00	42.17	35.84	5.42	35.11	Peak		
3	10380.00	50.05	-18.15	68.20	41.58	37.15	6.35	35.03	Peak	224	
4	15570.00	44.41	-9.59	54.00	31.09	40.22	7.96	34.86	Average		1
5	15570.00	56.69	-17.31	74.00	43.37	40.22	7.96	34.86	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.

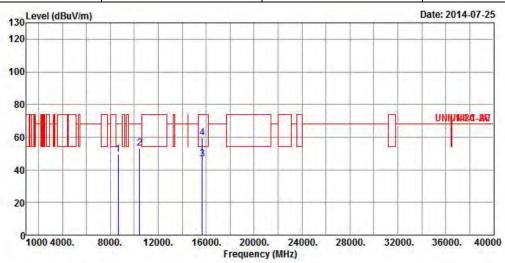
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN



			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	8658.00	49.54	-18.66	68.20	43.08	35.96	5.62	35.12	Peak		
2	10460.00	53.23	-14.97	68.20	44.71	37.18	6.30	34.96	Peak		
3	15690.00	46.40	-7.60	54.00	33.10	40.44	7.86	35.00	Average		
4	15690.00	59.50	-14.50	74.00	46.20	40.44	7.86	35.00	Peak	1000	

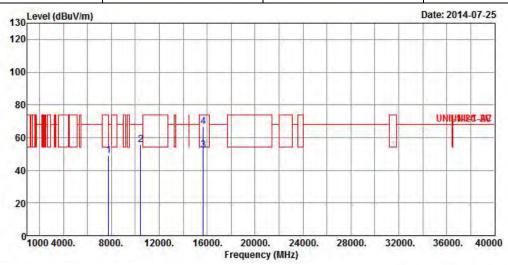
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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) 5230									
N_{TX}	3	Polarization	Н						

Report No.: FR462324AN

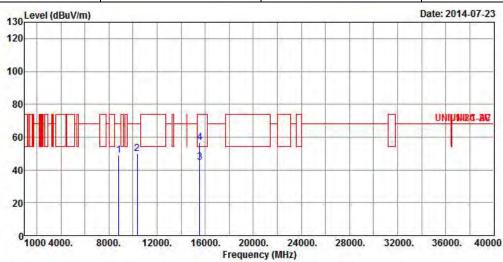


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7764.00	49.12	-19.08	68.20	42.94	35.75	5.51	35.08	Peak	(222)	224
2	10460.00	55.69	-12.51	68.20	47.17	37.18	6.30	34.96	Peak		
3	15690.00	52.07	-1.93	54.00	38.77	40.44	7.86	35.00	Average	-66	1222
4	15690.00	66.52	-7.48	74.00	53.22	40.44	7.86	35.00	Peak		

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5180						
N_{TX}	3	Polarization	V						



	Freq	Level				Antenna Factor		23 1 2 2 2 2 2 2 2		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8820.00	48.74	-19.46	68.20	42.05	36.03	5.82	35.16	Peak	1220	224
2	10360.00	49.80	-18.40	68.20	41.32	37.15	6.38	35.05	Peak		
3	15540.00	44.42	-9.58	54.00	31.10	40.16	7.99	34.83	Average	1224	
4	15540.00	56.84	-17.16	74.00	43.52	40.16	7.99	34.83	Peak		

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

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

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

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

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

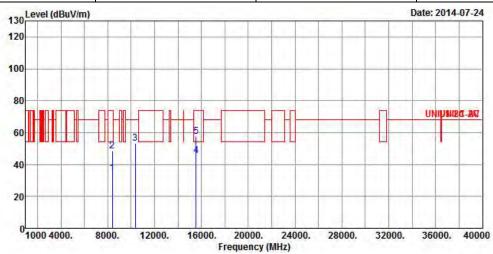
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode VHT20 Test Freq. (MHz) 5180										
N_{TX}	3	Polarization	Н							

Report No.: FR462324AN

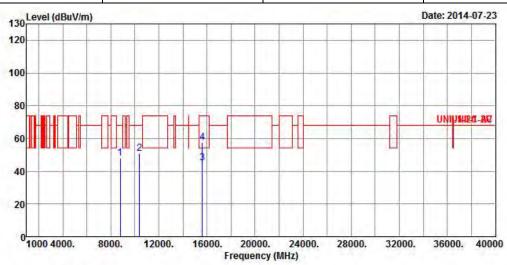


Freq	Level						107		A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
8380.00	34.54	-19.46	54.00	28.37	35.85	5.43	35.11	Average	333	444
8380.00	48.29	-25.71	74.00	42.12	35.85	5.43	35.11	Peak		
10360.00	53.01	-15.19	68.20	44.53	37.15	6.38	35.05	Peak		444
15540.00	45.53	-8.47	54.00	32.21	40.16	7.99	34.83	Average		
15540.00	57.59	-16.41	74.00	44.27	40.16	7.99	34.83	Peak		555
	MHz 8380.00 8380.00 10360.00 15540.00	MHz dBuV/m 8380.00 34.54 8380.00 48.29 10360.00 53.01 15540.00 45.53	Freq Level Limit MHz dBuV/m dB 8380.00 34.54 -19.46 8380.00 48.29 -25.71 10360.00 53.01 -15.19 15540.00 45.53 -8.47	Freq Level Limit Line MHz dBuV/m dB dBuV/m 8380.00 34.54 -19.46 54.00 8380.00 48.29 -25.71 74.00 10360.00 53.01 -15.19 68.20 15540.00 45.53 -8.47 54.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 8380.00 34.54 -19.46 54.00 28.37 8380.00 48.29 -25.71 74.00 42.12 10360.00 53.01 -15.19 68.20 44.53 15540.00 45.53 -8.47 54.00 32.21	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 8380.00 34.54 -19.46 54.00 28.37 35.85 8380.00 48.29 -25.71 74.00 42.12 35.85 10360.00 53.01 -15.19 68.20 44.53 37.15	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 8380.00 34.54 -19.46 54.00 28.37 35.85 5.43 8380.00 48.29 -25.71 74.00 42.12 35.85 5.43 10360.00 53.01 -15.19 68.20 44.53 37.15 6.38 15540.00 45.53 -8.47 54.00 32.21 40.16 7.99	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 8380.00 34.54 -19.46 54.00 28.37 35.85 5.43 35.11 8380.00 48.29 -25.71 74.00 42.12 35.85 5.43 35.11 10360.00 53.01 -15.19 68.20 44.53 37.15 6.38 35.05 15540.00 45.53 -8.47 54.00 32.21 40.16 7.99 34.83	MHz dBuV/m dB dBuV/m dBuV dB/m dB dB dB 8380.00 34.54 -19.46 54.00 28.37 35.85 5.43 35.11 Average 8380.00 48.29 -25.71 74.00 42.12 35.85 5.43 35.11 Peak 10360.00 53.01 -15.19 68.20 44.53 37.15 6.38 35.05 Peak 15540.00 45.53 -8.47 54.00 32.21 40.16 7.99 34.83 Average	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dB dW dB dB dB cm 8380.00 34.54 -19.46 54.00 28.37 35.85 5.43 35.11 Average 8380.00 48.29 -25.71 74.00 42.12 35.85 5.43 35.11 Peak 10360.00 53.01 -15.19 68.20 44.53 37.15 6.38 35.05 Peak 15540.00 45.53 -8.47 54.00 32.21 40.16 7.99 34.83 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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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5200							
N _{TX}	3	Polarization	V							



	200	1.1.12				Antenna				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	8798.00	48.07	-20.13	68.20	41.43	36.02	5.78	35.16	Peak		
2	10400.00	51.06	-17.14	68.20	42.55	37.16	6.35	35.00	Peak		
3	15600.00	45.26	-8.74	54.00	31.93	40.29	7.96	34.92	Average		
4	15600.00	57.56	-16.44	74.00	44.23	40.29	7.96	34.92	Peak		555

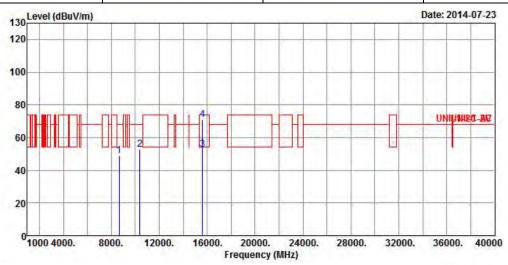
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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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Tra	nsmitter Radiated Unwan	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5200								
N_{TX}	3	Polarization	Н								

Report No.: FR462324AN



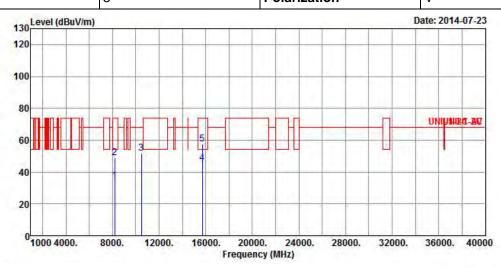
			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8666.00	48.79	-19.41	68.20	42.29	35.97	5.66	35.13	Peak	1225	444
2	10400.00	53.01	-15.19	68.20	44.50	37.16	6.35	35.00	Peak		1
3	15600.00	52.98	-1.02	54.00	39.65	40.29	7.96	34.92	Average	246	1444
4	15600.00	70.95	-3.05	74.00	57.62	40.29	7.96	34.92	Peak		

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

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Tr	ansmitter Radiated Unwar	nted Emissions (Above 1G	iHz)
Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TV}	3	Polarization	V



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		04016.00
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8204.00	34.50	-19.50	54.00	28.47	35.78	5.38	35.13	Average	245	1226
2	8204.00	48.74	-25.26	74.00	42.71	35.78	5.38	35.13	Peak		
3	10480.00	51.91	-16.29	68.20	43.35	37.19	6.30	34.93	Peak	-44	244
4	15720.00	45.34	-8.66	54.00	32.01	40.50	7.86	35.03	Average		2
5	15720.00	57.64	-16.36	74.00	44.31	40.50	7.86	35.03	Peak	-45	225

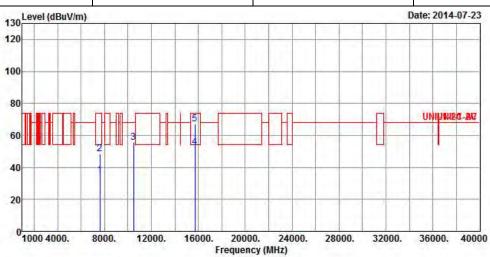
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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	VHT20	Test Freq. (MHz)	5240
N_{TX}	3	Polarization	Н

Report No.: FR462324AN



	Freq	Level		Limit Line						A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7610.00	34.84	-19.16	54.00	28.44	35.78	5.64	35.02	Average		
2	7610.00	48.36	-25.64	74.00	41.96	35.78	5.64	35.02	Peak		
3	10480.00	55.69	-12.51	68.20	47.13	37.19	6.30	34.93	Peak		
4	15720.00	52.57	-1.43	54.00	39.24	40.50	7.86	35.03	Average		
5	15720.00	67.20	-6.80	74.00	53.87	40.50	7.86	35.03	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.

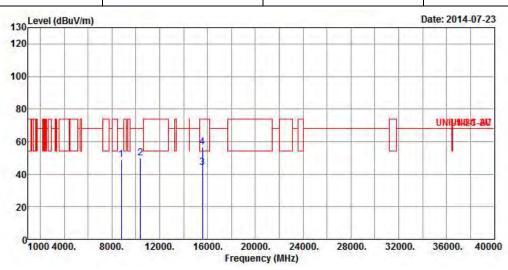
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TEL: 886-3-327-3456 Report Version : Rev. 02

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT40 Test Freq. (MHz) 5190

N_{TX} 3 Polarization V

Report No.: FR462324AN

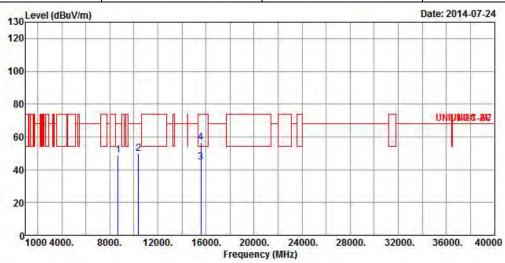


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	cm	deg
1	8798.00	48.80	-19.40	68.20	42.16	36.02	5.78	35.16	Peak		- 222
2	10380.00	50.04	-18.16	68.20	41.57	37.15	6.35	35.03	Peak	1.55	
3	15570.00	44.34	-9.66	54.00	31.02	40.22	7.96	34.86	Average		
4	15570.00	56.57	-17.43	74.00	43.25	40.22	7.96	34.86	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	VHT40	Test Freq. (MHz)	5190							
N_{TX}	3	Polarization	Н							



	Freq	Level	Over Limit			Antenna Factor		23 1		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8682.00	48.90	-19.30	68.20	42.40	35.97	5.66	35.13	Peak	1220	222
2	10380.00	49.94	-18.26	68.20	41.47	37.15	6.35	35.03	Peak		
3	15570.00	44.49	-9.51	54.00	31.17	40.22	7.96	34.86	Average	-66	
4	15570.00	56.65	-17.35	74.00	43.33	40.22	7.96	34.86	Peak		

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

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

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

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

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

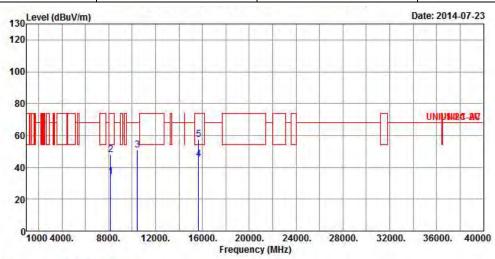
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	VHT40	Test Freq. (MHz)	5230
N_{TX}	3	Polarization	V

Report No.: FR462324AN



		Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		etate.
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
8160.00	34.26	-19.74	54.00	28.27	35.76	5.37	35.14	Average		
8160.00	48.18	-25.82	74.00	42.19	35.76	5.37	35.14	Peak		
10460.00	50.66	-17.54	68.20	42.14	37.18	6.30	34.96	Peak	2220	9991
15690.00	45.30	-8.70	54.00	32.00	40.44	7.86	35.00	Average		
15690.00	57.58	-16.42	74.00	44.28	40.44	7.86	35.00	Peak	444	
	MHz 8160.00 8160.00 10460.00 15690.00	MHz dBuV/m 8160.00 34.26 8160.00 48.18 10460.00 50.66 15690.00 45.30	Freq Level Limit MHz dBuV/m dB 8160.00 34.26 -19.74 8160.00 48.18 -25.82 10460.00 50.66 -17.54 15690.00 45.30 -8.70	Freq Level Limit Line MHz dBuV/m dB dBuV/m 8160.00 34.26 -19.74 54.00 8160.00 48.18 -25.82 74.00 10460.00 50.66 -17.54 68.20 15690.00 45.30 -8.70 54.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 8160.00 34.26 -19.74 54.00 28.27 8160.00 48.18 -25.82 74.00 42.19 10460.00 50.66 -17.54 68.20 42.14 15690.00 45.30 -8.70 54.00 32.00	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 8160.00 34.26 -19.74 54.00 28.27 35.76 8160.00 48.18 -25.82 74.00 42.19 35.76 10460.00 50.66 -17.54 68.20 42.14 37.18 15690.00 45.30 -8.70 54.00 32.00 40.44	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 8160.00 34.26 -19.74 54.00 28.27 35.76 5.37 8160.00 48.18 -25.82 74.00 42.19 35.76 5.37 10460.00 50.66 -17.54 68.20 42.14 37.18 6.30 15690.00 45.30 -8.70 54.00 32.00 40.44 7.86	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 8160.00 34.26 -19.74 54.00 28.27 35.76 5.37 35.14 8160.00 48.18 -25.82 74.00 42.19 35.76 5.37 35.14 10460.00 50.66 -17.54 68.20 42.14 37.18 6.30 34.96 15690.00 45.30 -8.70 54.00 32.00 40.44 7.86 35.00	MHz dBuV/m dB dBuV/m dBuV dB/m dB dB dB 8160.00 34.26 -19.74 54.00 28.27 35.76 5.37 35.14 Average 8160.00 48.18 -25.82 74.00 42.19 35.76 5.37 35.14 Peak 10460.00 50.66 -17.54 68.20 42.14 37.18 6.30 34.96 Peak 15690.00 45.30 -8.70 54.00 32.00 40.44 7.86 35.00 Average	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dB dB dB cm 8160.00 34.26 -19.74 54.00 28.27 35.76 5.37 35.14 Average 8160.00 48.18 -25.82 74.00 42.19 35.76 5.37 35.14 Peak 10460.00 50.66 -17.54 68.20 42.14 37.18 6.30 34.96 Peak 15690.00 45.30 -8.70 54.00 32.00 40.44 7.86 35.00 Average

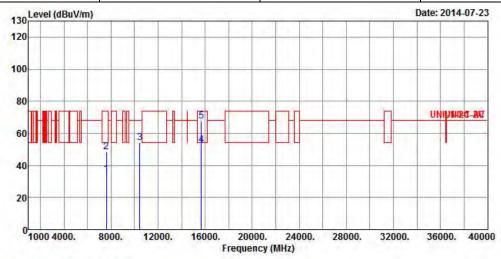
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation ModeVHT40Test Freq. (MHz)5230									
N_{TX}	Polarization	Н							

Report No.: FR462324AN



	Frea	Level		Limit		Antenna Factor		100		A/Pos	T/Pos
	11-4		Limit			, acco	2033	, accor	ricinal it		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7610.00	34.67	-19.33	54.00	28.27	35.78	5.64	35.02	Average	1,555	
2	7610.00	48.64	-25.36	74.00	42.24	35.78	5.64	35.02	Peak	1000	
3	10460.00	54.06	-14.14	68.20	45.54	37.18	6.30	34.96	Peak		
4	15690.00	52.90	-1.10	54.00	39.60	40.44	7.86	35.00	Average		
5	15690.00	67.83	-6.17	74.00	54.53	40.44	7.86	35.00	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)

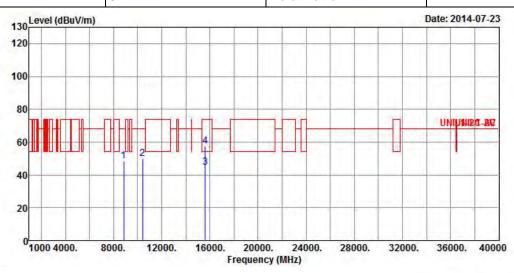
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	VHT80	Test Freq. (MHz)	5210						
N _{TX}	3	Polarization	V						



	Freq	Level				Antenna Factor		2		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8864.00	48.63	-19.57	68.20	41.89	36.05	5.86	35.17	Peak	1220	
2	10420.00	49.92	-18.28	68.20	41.42	37.17	6.33	35.00	Peak		
3	15630.00	44.50	-9.50	54.00	31.17	40.35	7.92	34.94	Average		
4	15630.00	57.51	-16.49	74.00	44.18	40.35	7.92	34.94	Peak	2	

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)

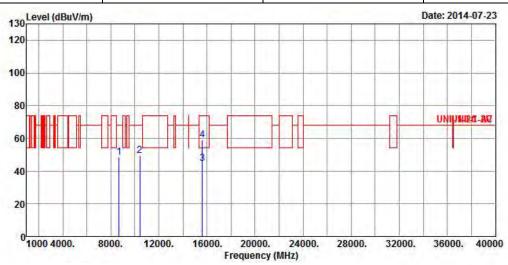
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 ModeVHT80Test Freq. (MHz)5210									
N _{TX} 3 Polarization H									



	Freq	Level		Limit Line						A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8688.00	48.41	-19.79	68.20	41.91	35.97	5.66	35.13	Peak		
2	10420.00	49.36	-18.84	68.20	40.86	37.17	6.33	35.00	Peak		
3	15630.00	44.52	-9.48	54.00	31.19	40.35	7.92	34.94	Average		
4	15630.00	58.79	-15.21	74.00	45.46	40.35	7.92	34.94	Peak	0.550	

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.

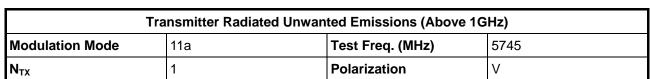
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

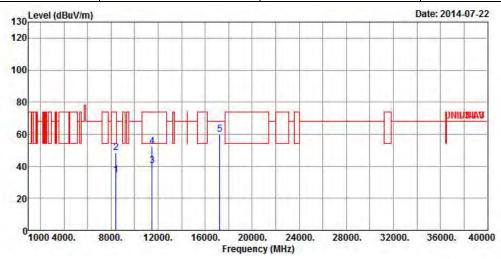
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN





			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	18.77	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8424.00	34.47	-19.53	54.00	28.26	35.87	5.44	35.10	Average		
2	8424.00	48.50	-25.50	74.00	42.29	35.87	5.44	35.10	Peak	5.55	444
3	11490.00	40.11	-13.89	54.00	30.01	38.18	6.36	34.44	Average		
4	11490.00	52.35	-21.65	74.00	42.25	38.18	6.36	34.44	Peak		
5	17235.00	59.93	-8.27	68.20	43.32	41.51	8.96	33.86	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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TEL: 886-3-327-3456 : Report Version : Rev. 02

1000 4000.

8000.

12000.

16000.

Report No.: FR462324AN

Modulation Mode	11a		Test Freq. (N	lHz)	5745
N _{TX}	1		Polarization		Н
130 Level (dBuV/	/m)				Date: 2014-07-2
120					
100					
80	1			Н	VAHBUINU
60	3	4			Pinisara
40					
20					

20000.

Frequency (MHz)

24000.

28000.

32000.

36000.

40000

Transmitter Radiated Unwanted Emissions (Above 1GHz)

	1.000	. 7				Antenna		The state of the s		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	8864.00	48.73	-19.47	68.20	41.99	36.05	5.86	35.17	Peak	1220	1226
2	11490.00	49.99	-4.01	54.00	39.89	38.18	6.36	34.44	Average		
3	11490.00	64.03	-9.97	74.00	53.93	38.18	6.36	34.44	Peak	-44	
4	17235.00	60.70	-7.50	68.20	44.09	41.51	8.96	33.86	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)

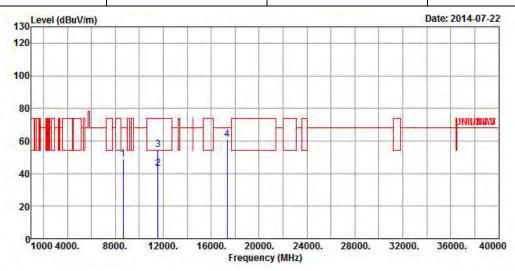
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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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Т	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5785						
N _{TX}	1	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	8644.00	48.79	-19.41	68.20	42.33	35.96	5.62	35.12	Peak		
2	11570.00	43.24	-10.76	54.00	33.03	38.30	6.44	34.53	Average	444	440
3	11570.00	54.76	-19.24	74.00	44.55	38.30	6.44	34.53	Peak		
4	17355.00	60.73	-7.47	68.20	44.18	41.42	8.94	33.81	Peak		

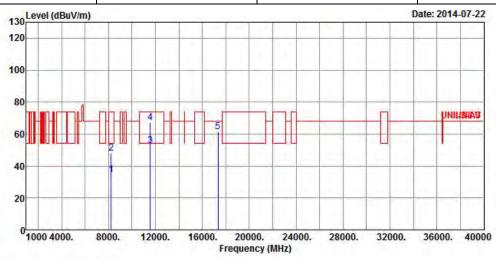
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode 11a Test Freq. (MHz) 5785									
N _{TX} 1 Polarization H									

Report No.: FR462324AN



		Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Level	Over Limit			Antenna Factor				A/Pos	T/Pos
	3	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg											
	1	8226.00	34.46	-19.54	54.00	28.42	35.79	5.38	35.13	Average		1222											
1	2	8226.00	47.95	-26.05	74.00	41.91	35.79	5.38	35.13	Peak		225											
1.2	3	11570.00	52.63	-1.37	54.00	42.42	38.30	6.44	34.53	Average	1444	1888											
-	4	11570.00	66.93	-7.07	74.00	56.72	38.30	6.44	34.53	Peak													
	5	17355.00	61.28	-6.92	68.20	44.73	41.42	8.94	33.81	Peak		22-											

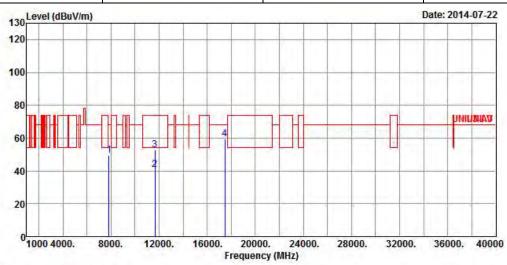
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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)	5825				
N_{TX}	1	Polarization	V				

Report No.: FR462324AN



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos	
	Freq	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	7830.00	49.20	-19.00	68.20	43.13	35.73	5.44	35.10	Peak	222	111	
2	11650.00	40.56	-13.44	54.00	30.23	38.39	6.52	34.58	Average			
3	11650.00	52.55	-21.45	74.00	42.22	38.39	6.52	34.58	Peak	1-66		
4	17475.00	59.54	-8.66	68.20	43.04	41.33	8.92	33.75	Peak	24-		

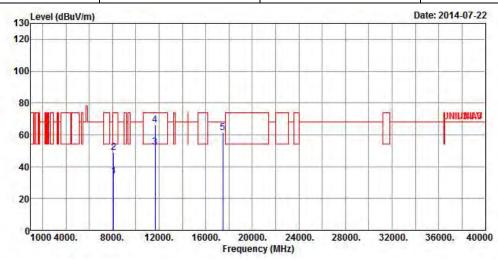
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

Report No.: FR462324AN



	Freq	Level		Limit Line						A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8116.00	34.26	-19.74	54.00	28.31	35.75	5.35	35.15	Average		
2	8116.00	48.75	-25.25	74.00	42.80	35.75	5.35	35.15	Peak	***	
3	11650.00	52.11	-1.89	54.00	41.78	38.39	6.52	34.58	Average		
4	11650.00	66.20	-7.80	74.00	55.87	38.39	6.52	34.58	Peak		
5	17475.00	61.38	-6.82	68.20	44.88	41.33	8.92	33.75	Peak		

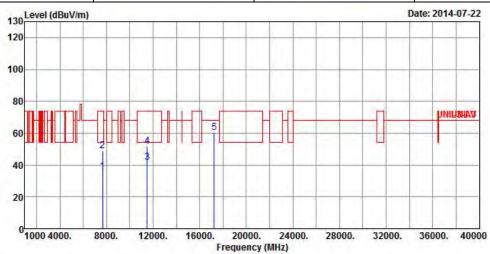
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

Report No.: FR462324AN



	Freq	Level		Limit Line		Antenna Factor		The state of the s		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7660.00	36.14	-17.86	54.00	29.83	35.77	5.58	35.04	Average	1246	224
2	7660.00	48.83	-25.17	74.00	42.52	35.77	5.58	35.04	Peak		
3	11490.00	41.81	-12.19	54.00	31.71	38.18	6.36	34.44	Average		
4	11490.00	51.74	-22.26	74.00	41.64	38.18	6.36	34.44	Peak		1222
5	17235.00	60.67	-7.53	68.20	44.06	41.51	8.96	33.86	Peak		444

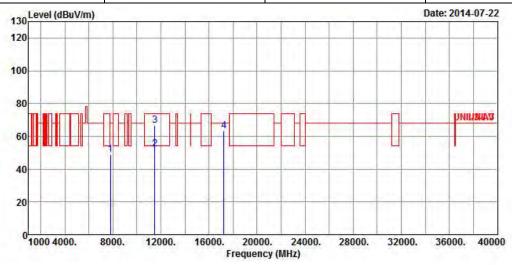
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 HT20 Test Freq. (MHz) 5745								
N _{TX}	3	Polarization	Н					

Report No.: FR462324AN



			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	7808.00	49.09	-19.11	68.20	43.00	35.74	5.44	35.09	Peak		444
2	11490.00	52.28	-1.72	54.00	42.18	38.18	6.36	34.44	Average	1.22	255
3	11490.00	66.47	-7.53	74.00	56.37	38.18	6.36	34.44	Peak		
4	17235.00	63.26	-4.94	68.20	46.65	41.51	8.96	33.86	Peak		

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

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

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

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

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

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

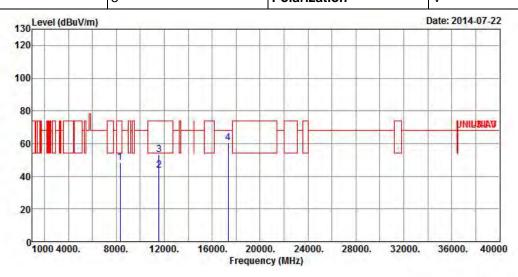
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5785

N_{TX} 3 Polarization V

Report No.: FR462324AN



			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	8336.00	48.46	-25.54	74.00	42.31	35.84	5.42	35.11	Peak	1225	144
2	11570.00	43.48	-10.52	54.00	33.27	38.30	6.44	34.53	Average		
3	11570.00	53.41	-20.59	74.00	43.20	38.30	6.44	34.53	Peak	244	
4	17355.00	60.23	-7.97	68.20	43.68	41.42	8.94	33.81	Peak		

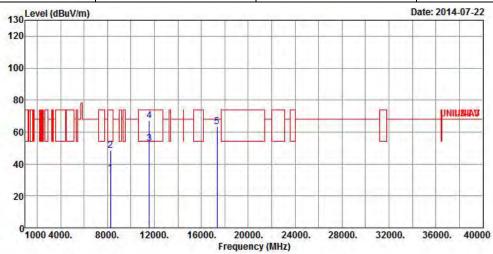
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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) 5785								
N_{TX}	3	Polarization	Н					

Report No.: FR462324AN



	Freq	Level				Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	8270.00	34.25	-19.75	54.00	28.17	35.81	5.39	35.12	Average	إعرادوا	222
2	8270.00	48.28	-25.72	74.00	42.20	35.81	5.39	35.12	Peak		
3	11570.00	52.93	-1.07	54.00	42.72	38.30	6.44	34.53	Average		
4	11570.00	67.18	-6.82	74.00	56.97	38.30	6.44	34.53	Peak		
5	17355.00	63.19	-5.01	68.20	46.64	41.42	8.94	33.81	Peak	2221	

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

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

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

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

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

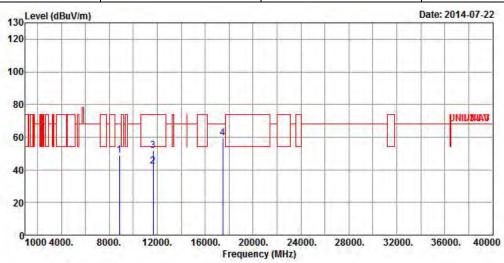
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN



			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	8864.00	49.00	-19.20	68.20	42.26	36.05	5.86	35.17	Peak		
2	11650.00	42.44	-11.56	54.00	32.11	38.39	6.52	34.58	Average	***	
3	11650.00	51.97	-22.03	74.00	41.64	38.39	6.52	34.58	Peak		
4	17475.00	59.51	-8.69	68.20	43.01	41.33	8.92	33.75	Peak		

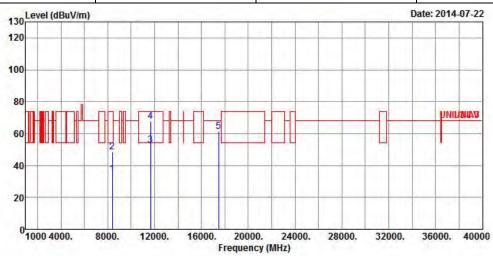
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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.: FR462324AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation ModeHT20Test Freq. (MHz)5825								
N _{TX} 3 Polarization H								



	Freq	Level				Antenna Factor		and the second second		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	8386.00	34.42	-19.58	54.00	28.24	35.85	5.43	35.10	Average	112	222
2	8386.00	48.41	-25.59	74.00	42.23	35.85	5.43	35.10	Peak		
3	11650.00	52.98	-1.02	54.00	42.65	38.39	6.52	34.58	Average	444	664
4	11650.00	67.73	-6.27	74.00	57.40	38.39	6.52	34.58	Peak		
5	17475.00	61.29	-6.91	68.20	44.79	41.33	8.92	33.75	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.

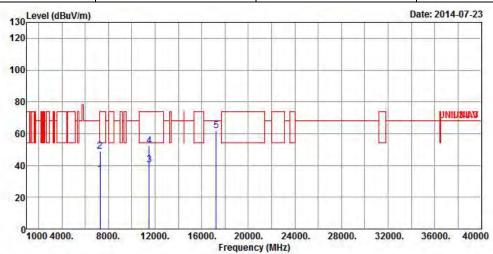
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN



			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	7280.00	34.61	-19.39	54.00	28.24	35.89	5.42	34.94	Average		
2	7280.00	48.72	-25.28	74.00	42.35	35.89	5.42	34.94	Peak	***	
3	11510.00	40.17	-13.83	54.00	30.09	38.20	6.36	34.48	Average		
4	11510.00	52.41	-21.59	74.00	42.33	38.20	6.36	34.48	Peak		
5	17265.00	61.74	-6.46	68.20	45.14	41.49	8.95	33.84	Peak		

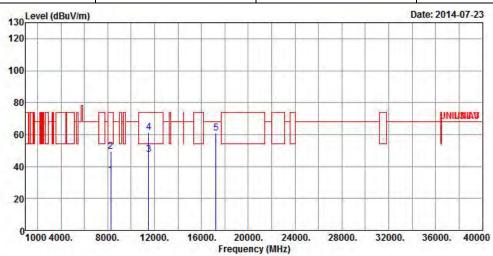
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 ModeHT40Test Freq. (MHz)5755									
N_{TX}	3	Polarization	Н						

Report No.: FR462324AN



	Freq	Level	Over Limit			Antenna Factor		The state of the s		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	cm	deg
1	8248.00	34.63	-19.37	54.00	28.57	35.80	5.39	35.13	Average	1,40	1246
2	8248.00	49.17	-24.83	74.00	43.11	35.80	5.39	35.13	Peak		
3	11510.00	47.59	-6.41	54.00	37.51	38.20	6.36	34.48	Average	244	244
4	11510.00	61.53	-12.47	74.00	51.45	38.20	6.36	34.48	Peak		
5	17265.00	61.09	-7.11	68.20	44.49	41.49	8.95	33.84	Peak	145	

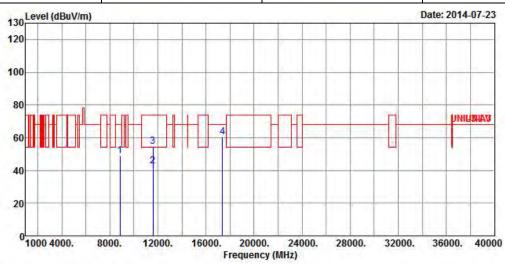
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 ModeHT40Test Freq. (MHz)5795									
N_{TX}	3	Polarization	V						

Report No.: FR462324AN



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	25.4.5	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8842.00	48.79	-19.41	68.20	42.11	36.03	5.82	35.17	Peak	446	114
2	11590.00	42.69	-11.31	54.00	32.42	38.32	6.48	34.53	Average		
3	11590.00	54.72	-19.28	74.00	44.45	38.32	6.48	34.53	Peak		
4	17385.00	60.37	-7.83	68.20	43.84	41.39	8.93	33.79	Peak		

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

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

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

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

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

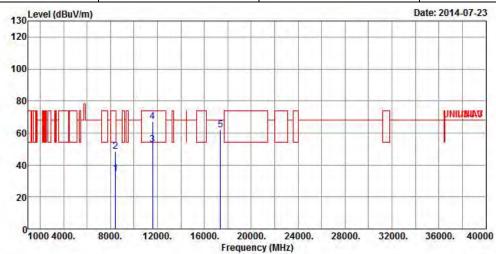
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR462324AN



	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8424.00	34.62	-19.38	54.00	28.41	35.87	5.44	35.10	Average		
2	8424.00	48.45	-25.55	74.00	42.24	35.87	5.44	35.10	Peak		
3	11590.00	52.91	-1.09	54.00	42.64	38.32	6.48	34.53	Average	688	
4	11590.00	66.97	-7.03	74.00	56.70	38.32	6.48	34.53	Peak	-	. 666
5	17385.00	61.75	-6.45	68.20	45.22	41.39	8.93	33.79	Peak		

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

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

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

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

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

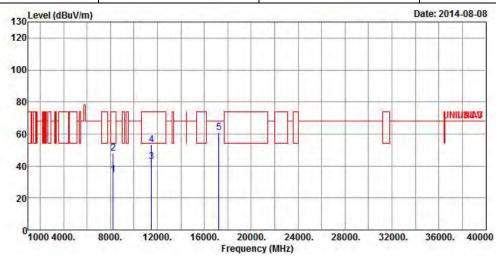
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode VHT20 Test Freq. (MHz) 5745									
N_{TX}	3	Polarization	V						

Report No.: FR462324AN



Freq	Level								A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
8226.00	34.38	-19.62	54.00	28.34	35.79	5.38	35.13	Average	222	222
8226.00	48.00	-26.00	74.00	41.96	35.79	5.38	35.13	Peak		
11490.00	42.60	-11.40	54.00	32.50	38.18	6.36	34.44	Average	444	
11490.00	53.31	-20.69	74.00	43.21	38.18	6.36	34.44	Peak		
17235.00	61.12	-7.08	68.20	44.51	41.51	8.96	33.86	Peak		
	MHz 8226.00 8226.00 11490.00	MHz dBuV/m 8226.00 34.38 8226.00 48.00 11490.00 42.60 11490.00 53.31	Freq Level Limit MHz dBuV/m dB 8226.00 34.38 -19.62 8226.00 48.00 -26.00 11490.00 42.60 -11.40 11490.00 53.31 -20.69	Freq Level Limit Line MHz dBuV/m dB dBuV/m 8226.00 34.38 -19.62 54.00 8226.00 48.00 -26.00 74.00 11490.00 42.60 -11.40 54.00 11490.00 53.31 -20.69 74.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 8226.00 34.38 -19.62 54.00 28.34 8226.00 48.00 -26.00 74.00 41.96 11490.00 42.60 -11.40 54.00 32.50 11490.00 53.31 -20.69 74.00 43.21	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 8226.00 34.38 -19.62 54.00 28.34 35.79 8226.00 48.00 -26.00 74.00 41.96 35.79 11490.00 42.60 -11.40 54.00 32.50 38.18 11490.00 53.31 -20.69 74.00 43.21 38.18	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 8226.00 34.38 -19.62 54.00 28.34 35.79 5.38 8226.00 48.00 -26.00 74.00 41.96 35.79 5.38 11490.00 42.60 -11.40 54.00 32.50 38.18 6.36 11490.00 53.31 -20.69 74.00 43.21 38.18 6.36	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 8226.00 34.38 -19.62 54.00 28.34 35.79 5.38 35.13 8226.00 48.00 -26.00 74.00 41.96 35.79 5.38 35.13 11490.00 42.60 -11.40 54.00 32.50 38.18 6.36 34.44 11490.00 53.31 -20.69 74.00 43.21 38.18 6.36 34.44	MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 8226.00 34.38 -19.62 54.00 28.34 35.79 5.38 35.13 Average 8226.00 48.00 -26.00 74.00 41.96 35.79 5.38 35.13 Peak 11490.00 42.60 -11.40 54.00 32.50 38.18 6.36 34.44 Average 11490.00 53.31 -20.69 74.00 43.21 38.18 6.36 34.44 Peak	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dB/m dB dB cm 8226.00 34.38 -19.62 54.00 28.34 35.79 5.38 35.13 Average 8226.00 48.00 -26.00 74.00 41.96 35.79 5.38 35.13 Peak 11490.00 42.60 -11.40 54.00 32.50 38.18 6.36 34.44 Average 11490.00 53.31 -20.69 74.00 43.21 38.18 6.36 34.44 Peak

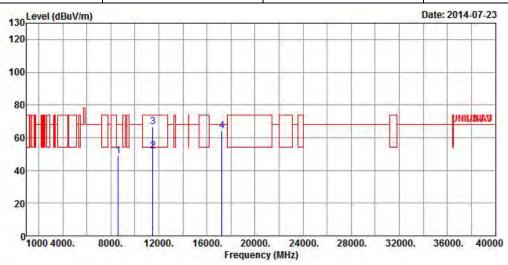
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode VHT20 Test Freq. (MHz) 5745										
N_{TX}	3	Polarization	Н							

Report No.: FR462324AN



	Freq	Level		Limit Line				The second second		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8622.00	49.16	-19.04	68.20	42.75	35.95	5.58	35.12	Peak	(225)	1244
2	11490.00	52.02	-1.98	54.00	41.92	38.18	6.36	34.44	Average		
3	11490.00	66.45	-7.55	74.00	56.35	38.18	6.36	34.44	Peak	-66	
4	17235.00	64.23	-3.97	68.20	47.62	41.51	8.96	33.86	Peak		

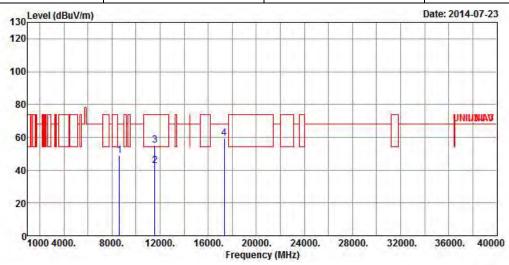
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5785							
N _{TX}	3	Polarization	V							

Report No.: FR462324AN



			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	8622.00	48.82	-19.38	68.20	42.41	35.95	5.58	35.12	Peak	223	222
2	11570.00	42.90	-11.10	54.00	32.69	38.30	6.44	34.53	Average		
3	11570.00	54.99	-19.01	74.00	44.78	38.30	6.44	34.53	Peak		444
4	17355.00	59.34	-8.86	68.20	42.79	41.42	8.94	33.81	Peak		

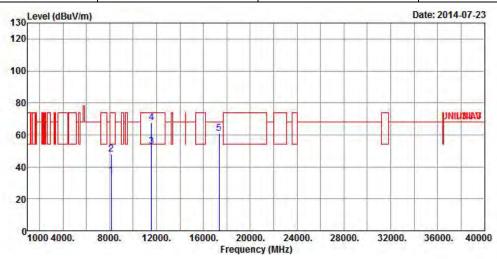
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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

Report No.: FR462324AN



			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	8138.00	34.38	-19.62	54.00	28.40	35.76	5.36	35.14	Average		
2	8138.00	48.18	-25.82	74.00	42.20	35.76	5.36	35.14	Peak	***	
3	11570.00	52.89	-1.11	54.00	42.68	38.30	6.44	34.53	Average		
4	11570.00	67.60	-6.40	74.00	57.39	38.30	6.44	34.53	Peak		
5	17355.00	60.88	-7.32	68.20	44.33	41.42	8.94	33.81	Peak		

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

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

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

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

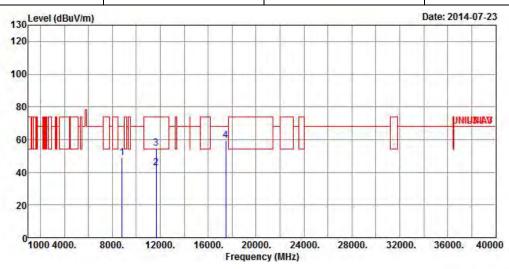
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5825						
N _{TX}	3	Polarization	V						

Report No.: FR462324AN



			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	8820.00	48.72	-19.48	68.20	42.03	36.03	5.82	35.16	Peak	122	144
2	11650.00	42.53	-11.47	54.00	32.20	38.39	6.52	34.58	Average		
3	11650.00	54.71	-19.29	74.00	44.38	38.39	6.52	34.58	Peak		
4	17475.00	59.63	-8.57	68.20	43.13	41.33	8.92	33.75	Peak		

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

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

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

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

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

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

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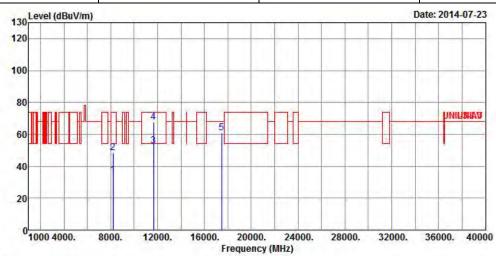


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT20 Test Freq. (MHz) 5825

N_{TX} 3 Polarization H

Report No.: FR462324AN



	122	. 7	0ver			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	8182.00	34.35	-19.65	54.00	28.34	35.77	5.37	35.13	Average	2,40	111
2	8182.00	48.28	-25.72	74.00	42.27	35.77	5.37	35.13	Peak		1
3	11650.00	52.97	-1.03	54.00	42.64	38.39	6.52	34.58	Average	244	244
4	11650.00	67.61	-6.39	74.00	57.28	38.39	6.52	34.58	Peak		
5	17475.00	61.12	-7.08	68.20	44.62	41.33	8.92	33.75	Peak	-45	

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.

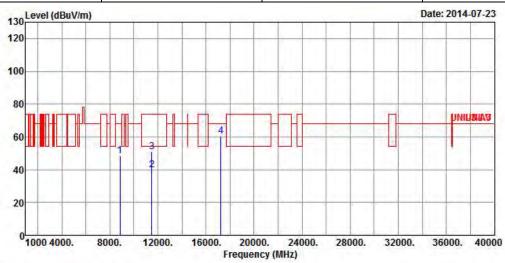
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT40	Test Freq. (MHz)	5755							
N _{TX}	3	Polarization	V							

Report No.: FR462324AN



	Freq	Level		Limit Line				The second second		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8842.00	48.65	-19.55	68.20	41.97	36.03	5.82	35.17	Peak	1220	1244
2	11510.00	39.95	-14.05	54.00	29.87	38.20	6.36	34.48	Average		1
3	11510.00	50.88	-23.12	74.00	40.80	38.20	6.36	34.48	Peak	-44	
4	17265.00	60.29	-7.91	68.20	43.69	41.49	8.95	33.84	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.

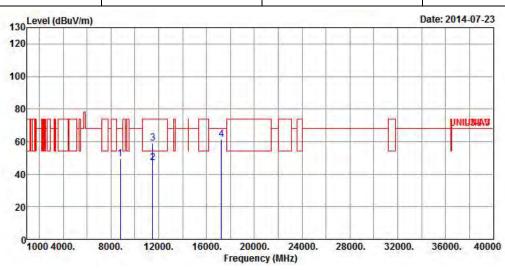
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Report No.: FR462324AN

Modulation ModeVHT40Test Freq. (MHz)5755N_{TX}3PolarizationH



			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	8798.00	49.59	-18.61	68.20	42.95	36.02	5.78	35.16	Peak	200	000
2	11510.00	47.25	-6.75	54.00	37.17	38.20	6.36	34.48	Average		
3	11510.00	59.00	-15.00	74.00	48.92	38.20	6.36	34.48	Peak		
4	17265.00	61.43	-6.77	68.20	44.83	41.49	8.95	33.84	Peak		

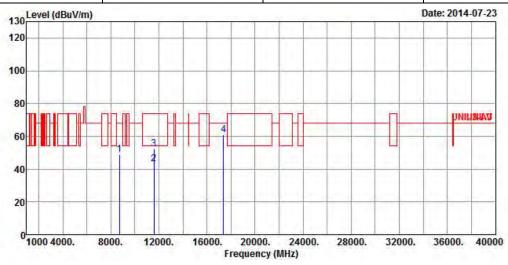
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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	VHT40	Test Freq. (MHz)	5795							
N_{TX}	3	Polarization	V							

Report No.: FR462324AN



			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	8710.00	48.75	-19.45	68.20	42.19	35.99	5.70	35.13	Peak	222	222
2	11590.00	43.27	-10.73	54.00	33.00	38.32	6.48	34.53	Average	144	555
3	11590.00	52.48	-21.52	74.00	42.21	38.32	6.48	34.53	Peak		
4	17385.00	60.84	-7.36	68.20	44.31	41.39	8.93	33.79	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.

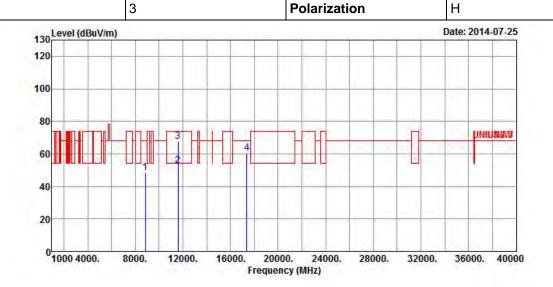
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode VHT40 Test Freq. (MHz) 5795									

Report No.: FR462324AN



	Freq	Level	Over Limit			Antenna Factor		-		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	cm	deg
1	8864.00	48.39	-19.81	68.20	41.65	36.05	5.86	35.17	Peak	146	446
2	11590.00	52.90	-1.10	54.00	42.63	38.32	6.48	34.53	Average		1 555
3	11590.00	67.86	-6.14	74.00	57.59	38.32	6.48	34.53	Peak	-44	244
4	17385.00	60.56	-7.64	68.20	44.03	41.39	8.93	33.79	Peak		

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

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

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

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

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

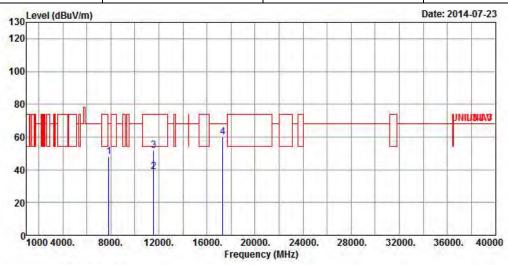
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT80	Test Freq. (MHz)	5775							
N_{TX}	3	Polarization	V							

Report No.: FR462324AN



						Antenna				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	7852.00	48.20	-20.00	68.20	42.17	35.73	5.41	35.11	Peak	112	111
2	11550.00	38.95	-15.05	54.00	28.75	38.27	6.44	34.51	Average	1+++	
3	11550.00	51.70	-22.30	74.00	41.50	38.27	6.44	34.51	Peak	+++	664
4	17325.00	60.18	-8.02	68.20	43.61	41.45	8.94	33.82	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.

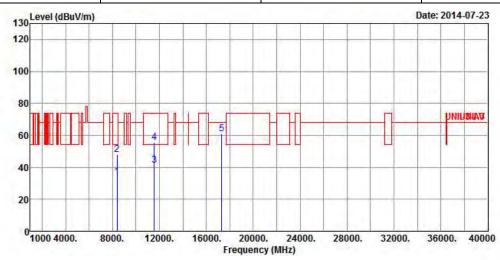
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT80	Test Freq. (MHz)	5775						
N _{TX}	3	Polarization	Н						

Report No.: FR462324AN



			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	8380.00	34.03	-19.97	54.00	27.86	35.85	5.43	35.11	Average		
2	8380.00	47.90	-26.10	74.00	41.73	35.85	5.43	35.11	Peak	***	
3	11550.00	41.47	-12.53	54.00	31.27	38.27	6.44	34.51	Average		
4	11550.00	55.80	-18.20	74.00	45.60	38.27	6.44	34.51	Peak		()
5	17325.00	60.94	-7.26	68.20	44.37	41.45	8.94	33.82	Peak		

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

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

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

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

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

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

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3.7 Frequency Stability

3.7.1 Frequency Stability Limit

Frequency Stability Limit 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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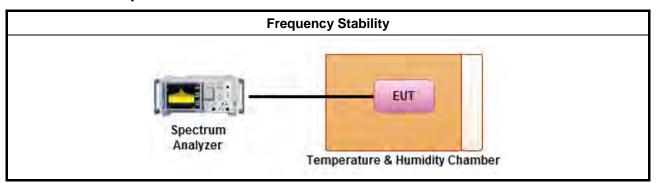
3.7.2 Measuring Instruments

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 _{20°C} Vmax	5180	5179.98755	-2.4035								
T _{20°C} Vmin	5180	5179.98770	-2.3745								
T _{50°C} Vnom	5180	5180.00232	0.4479								
T _{40°C} Vnom	5180	5179.98770	-2.3745								
T _{30°C} Vnom	5180	5179.98611	-2.6815								
T _{20°C} Vnom	5180	5179.98741	-2.4305								
T _{10°C} Vnom	5180	5179.98915	-2.0946								
T _{0°C} Vnom	5180	5180.00043	0.0830								
T _{-10°C} Vnom	5180	5180.01244	2.4015								
T _{-20°C} Vnom	5180	5180.01664	3.2124								
Limit ((ppm)	20									
Res	sult	Complied									

Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 0 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	Mar. 26, 2014	AC Conduction
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2014	AC Conduction
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Oct. 30, 2013	AC Conduction
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	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
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-00 1	-20 ~ 100°C	Nov. 20, 2013	RF Conducted
Signal Generator	R&S	SMB 100A	175727	100kHz~40GHz	Jan. 07, 2014	RF Conducted
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	SN 324557	30MHz ~ 26.5GHz	Dec. 02, 2013	RF Conducted
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	SN MY12586	30MHz ~ 26.5GHz	Dec. 02, 2013	RF Conducted
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_103	10715/4 10716/4	30MHz ~ 26.5GHz	Dec. 02, 2013	RF Conducted
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 15, 2014	RF Conducted

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

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Oct. 03, 2013	Radiation
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2014	Radiation
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 15, 2014	Radiation
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Radiation
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz ~ 18GHz	Nov. 25, 2013	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 09, 2013	Radiation
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2014	Radiation
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 10, 2013	Radiation
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Radiation
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	Dec. 02, 2012	Radiation

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

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