Equipment : 11ac+abgn AP

Brand Name : Senao networks

Model No. : CAP7250AG

FCC ID : U2M-CAP7250AG

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz - 5250 MHz

5725 MHz - 5850 MHz

FCC Classification: NII

Applicant : Senao Networks, Inc.

Manufacturer 3F, No. 529, Chung Cheng Rd.,

Hsintien, Taipei, Taiwan

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

☐ Portable Client

The product sample received on Jun. 18, 2014 and completely tested on Aug. 12, 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:

Wayne Hsu / Assistant Manager

Testing Laboratory 1190

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FCC Test Report No.: FR441445AN

Summary of Test Result

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

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Revision History

Report No.: FR441445AN

Report No.	Version	Description	Issued Date
FR441445AN	Rev. 01	Initial issue of report	Sep. 03, 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	а	5180-5240	36-48 [4]	3	24.22	Yes
5725-5850		5745-5825	149-165 [5]	3	25.87	Yes
5150-5250	n (HT20)	5180-5240	36-48 [4]	3/3	24.72 / 24.65	Yes
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	3/3	25.91 / 27.77	Yes
5150-5250	n (HT40)	5190-5230	38-46 [2]	3/3	27.47 / 27.48	Yes
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	3/3	28.33 / 28.03	Yes
5150-5250	ac (VHT80)	5210	48 [1]	3	18.93	Yes
5725-5850		5775	155 [1]	3	17.28	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	Integral antenna (antenna permanently attached)			
	☐ Temporary RF connector provided			
	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.			

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Antenna General Information						
No.	Ant. Cat.	Ant. Type	Gain _(dBi)			
1	Integral	PIFA	4.66			
2	Integral	PIFA	5.00			
3	Integral	PIFA	4.87			
Rema	Remark: This EUT only suppots 3TX and CDD function in modulation mode: 11 a, 11n and 11ac.					

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 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	97.93% - IEEE 802.11a	0.09			
\boxtimes	97.78% - IEEE 802.11n (HT20)	0.10			
\boxtimes	97.06% - IEEE 802.11n (HT40)	0.13			
\boxtimes	97.79% - IEEE 802.11ac (VHT20)	0.10			
\boxtimes	97.10% - IEEE 802.11ac (VHT40)	0.13			
\boxtimes	91.91% - IEEE 802.11ac (VHT80)	0.37			

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1.1.5 EUT Operational Condition

Supply Voltage		⊠ DC	
Type of DC Source			☐ From Battery
Test Voltage			
Test Climatic	☐ Tnom (20°C)		☐ Tmin (-20°C)

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1.2 Accessories and Support Equipment

Accessories						
	Brand Name	Powertron Electronics Corp.	Model Name	PA1015-2I		
AC Adapter	Power Rating	I/P: 100-240V===0.4A ; O/P: 12V===1.25A				
	DC Power Cable	1.4 meter, non-shielded cable, wi	th one ferrite co	re		

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

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

	Support Equipment – AC Conduction & Radiated Emission					
No.	No. Equipment Brand Name Model Name FCC ID					
1	Notebook	DELL	E5530	R33002		
2	PoE	Acelink	PI-1000PT	DoC		

1.3 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 789033 D02 v01
- FCC KDB 644545 D01 v01r01
- FCC KDB 644545 D02 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 FA	886-3-327-3456 FAX : 886-3-327-0973			
Test Condition				Test Site No.	Test Engineer	Test Environment		
AC Conduction				CO04-HY	Zeus	25°C / 46%		
RF Conducted				TH06-HY	Cain	23.3°C / 63%		
Radiated Emission				03CH03-HY	Leo	25.6°C / 52%		

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1.5 Measurement Uncertainty

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

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Measurement Uncertainty					
Test Item		Uncertainty			
AC power-line conducted emissions		±2.3 dB			
Emission bandwidth, 26dB bandwidth		±1.4 %			
RF output power, conducted		±0.6 dB			
Power density, conducted		±0.8 dB			
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB			
	0.15 – 30 MHz	±0.4 dB			
	30 – 1000 MHz	±0.5 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					
11a,6-54Mbps	3	6-54Mbps	6 Mbps		
HT20,M0-23	3	M0-23	M0		
HT40,M0-23	3	M0-23	MO		
VHT20,M0-8	3	M0-8	M0		
VHT40,M0-9	3	M0-9	M0		
VHT80,M0-9	3	M0-9	M0		

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)								
Test Software Version	Atheros Radio Test 2 (Art2-GUI)_Version: 2.3							
		Test Frequency (MHz)						
Modulation Mode	N _{TX}		NCB: 20MH	Z	NCB:	40MHz	NCB: 80MHz	
		5180	5200	5240	5190	5230	5210	
11a	3	17	17	17	-	-	-	
HT20	3	17.5	17.5	17.5	-	-	-	
HT40	3	-	-	-	14.5	21	-	
VHT20	3	17.5	17.5	17.5	-	-	-	
VHT40	3	-	-	-	17.5	21	-	
VHT80	3	-	-	-	-	-	15.5	

The Worst Case Power Setting Parameter (5725-5850MHz band)								
Test Software Version			Atheros R	adio Test 2 (A	Art2-GUI)_Ve	ersion: 2.3		
		Test Frequency (MHz)						
Modulation Mode	N_{TX}		NCB: 20M	łz	NCB:	40MHz	NCB: 80MHz	
		5745	5785	5825	5755	5795	5775	
11a	3	18.5	18.5	19	-	-	-	
HT20	3	19	18.5	19	-	-	-	
HT40	3	-	-	-	13	22	-	
VHT20	3	20	20	21	-	-	-	
VHT40	3	-	-	-	16	21.5	-	
VHT80	3	-	-	-	-	-	12.5	

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2.3 The Worst Case Measurement Configuration

Th	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	Adapter Mode				
2	PoE Mode				
Operating mode 1 was the worst case and it is recorded in this test report.					

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	

Th	e Worst Case Mode for Fo	ollowing Conformance Te	sts	
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions			
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.			
	☐ EUT will be placed in	fixed position.		
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is Z.			
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.			
Operating Mode <1GHz	Operating Mode Description			
1	Adapter Mode			
2	PoE Mode			
	Operating mode 2 was the worst case and it is recorded in this test report.			
Operating Mode >1GHz	Operating Mode Description			
1	Adapter Mode			
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80			
	X Plane	Y Plane	Z Plane	
Orthogonal Planes of EUT				

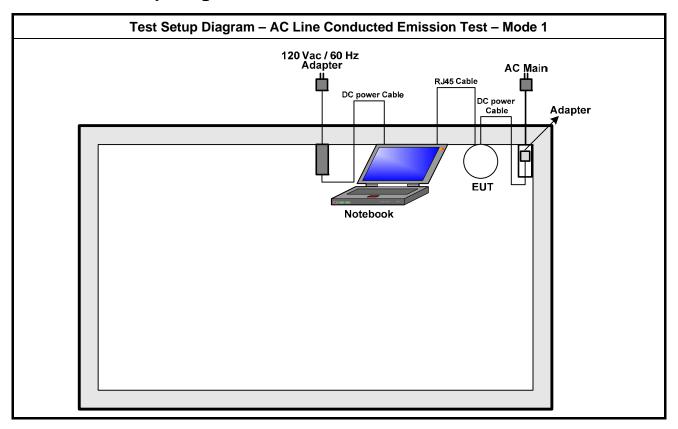
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2.4 Test Setup Diagram



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Test Setup Diagram - Radiated Test (Below 1GHz) - Mode 2 RJ45 Cable PoE Notebook Test Setup Diagram - Radiated Test (Above 1GHz) - Mode 1 120 Vac / 60 Hz Adapter AC Main DC power Cable DC power Cable Adapter DC power Cable RJ45 Cable EUT Notebook

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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		
Note 1: * Decreases with the logarithm of the frequency.				

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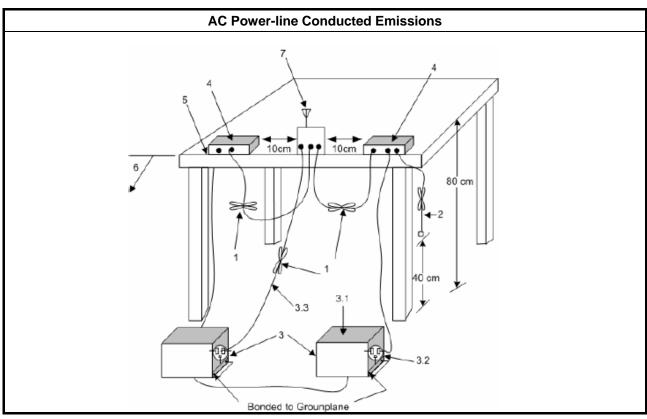
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

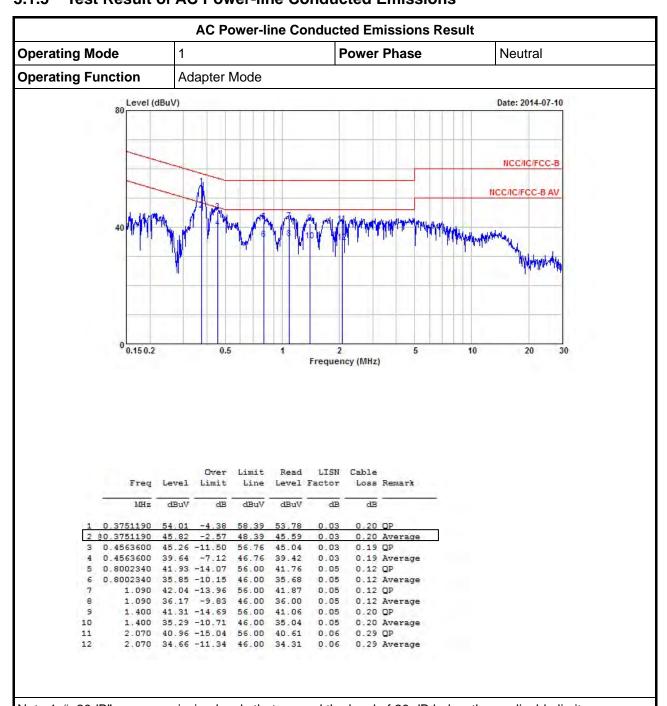
	Test Method
\boxtimes	Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



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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** Adapter Mode Level (dBuV) Date: 2014-07-10 NCC/IC/FCC-B NCC/IC/FCC-B AV 0.150.2 0.5 5 10 20 30 Frequency (MHz) Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.3771120 49.58 -8.76 58.34 49.35 0.03 0.20 QP 0.3771120 41.41 -6.93 48.34 41.18 0.03 0.20 Average 0.4420810 40.55 -16.47 57.02 40.33 0.03 0.19 QP 0.4420810 31.73 -15.29 47.02 0.7549280 38.57 -17.43 56.00 31.51 0.03 0.19 Average 38.39 0.05 0.13 OP 30.10 -15.90 6 0.7549280 46.00 29.92 0.05 0.13 Average

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

37.53

29.32

0.06

0.06

0.07

0.07

0.11

0.11

0.12 QP

0.30 QP

0.11 QP

0.12 Average

0.30 Average

0.11 Average

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

56.00

1.080 37.71 -18.29

1.080 29.50 -16.50 46.00

2.020 28.60 -17.40 46.00 28.23

2.020 35.86 -20.14 56.00 35.49

4.500 35.70 -20.30 56.00 35.48

4.500 28.97 -17.03 46.00 28.75

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3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

	Emission Bandwidth Limit				
UN	JNII Devices				
\boxtimes	For the 5.15-5.25 GHz band, N/A				
	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

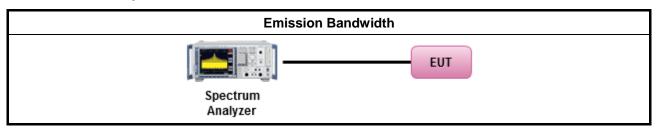
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

	Test Method							
\boxtimes	For	For the emission 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 conducted measurement.							
		The	EUT supports single transmit chain and measurements performed on this transmit chain.					
		The	EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.					
	\boxtimes	The	EUT supports multiple transmit chains using options given below:					
			Option 1: 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

		UN	III Emission Ba	ndwidth Resul	t (5150-5250MF	Iz band)				
Condit	ion				Emission Bar	ndwidth (MHz)				
Modulation Mode	N	Freq.	!	99% Bandwidth	1	2	26dB Bandwidth			
Modulation Mode	N _{TX}	(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3		
11a	3	5180	16.56	16.61	16.79	20.07	19.45	20.75		
11a	3	5200	16.56	16.61	16.64	19.52	19.75	20.50		
11a	3	5240	16.56	16.44	16.54	20.32	20.97	19.90		
HT20	3	5180	17.59	18.04	17.86	20.05	21.00	20.97		
HT20	3	5200	17.64	17.71	17.71	19.90	20.47	20.57		
HT20	3	5240	17.66	17.59	17.91	20.32	20.92	20.92		
HT40	3	5190	36.54	36.70	36.66	44.52	44.40	44.28		
HT40	3	5230	36.46	36.54	36.66	44.44	44.28	42.88		
VHT20	3	5180	18.06	17.64	17.76	21.22	20.60	20.67		
VHT20	3	5200	17.81	17.79	17.86	20.95	21.35	21.42		
VHT20	3	5240	17.81	17.84	17.96	20.60	21.77	21.42		
VHT40	3	5190	36.58	36.66	36.66	43.48	44.64	44.08		
VHT40	3	5230	36.62	36.82	36.58	44.52	43.92	43.44		
VHT80	3	5210	75.88	75.72	75.64	85.52	90.00	83.44		
Resu	lt				Com	plied				

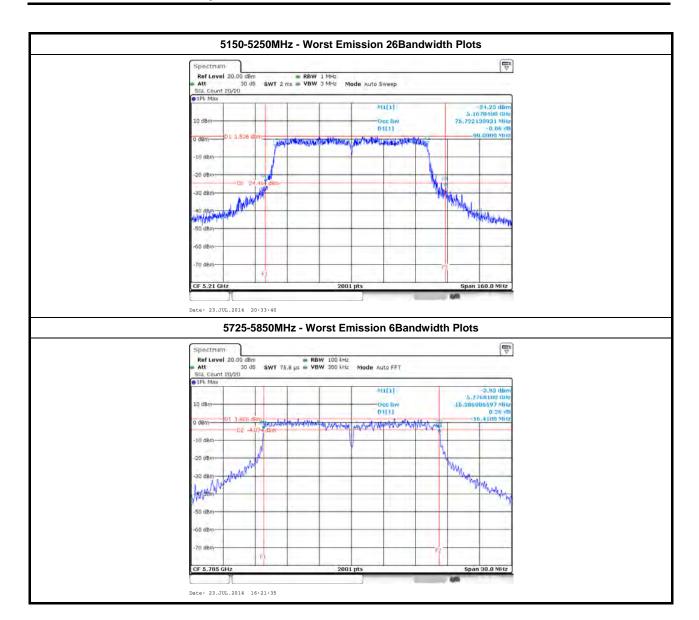
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Condit	ion		Emission Bandwidth (MHz)							
		F	!	99% Bandwidth	1		6dB Bandwidth	1		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3		
11a	3	5745	16.46	16.43	16.43	16.54	16.47	16.42		
11a	3	5785	16.52	16.38	16.44	16.54	16.41	16.54		
11a	3	5825	16.47	16.47	16.43	16.53	16.53	16.47		
HT20	3	5745	17.66	17.57	17.66	17.74	17.59	17.73		
HT20	3	5785	17.64	17.69	17.61	17.77	17.76	17.62		
HT20	3	5825	17.70	17.63	17.67	17.70	17.65	17.77		
HT40	3	5755	36.14	36.18	36.22	36.12	34.92	32.92		
HT40	3	5795	36.30	36.14	36.14	36.28	36.32	36.28		
VHT20	3	5745	17.64	17.64	17.60	17.71	17.71	17.58		
VHT20	3	5785	17.70	17.64	17.66	17.80	17.67	17.62		
VHT20	3	5825	17.70	17.69	17.60	17.55	17.70	17.62		
VHT40	3	5755	36.22	36.22	36.14	35.68	36.32	36.32		
VHT40	3	5795	36.30	36.18	36.18	35.44	36.36	36.32		
VHT80	3	5775	75.40	75.24	75.48	75.68	70.08	75.68		
Limi	t			N/A			≥500 kHz			
Resu	lt		Complied							

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3.3 RF Output Power

3.3.1 RF Output Power Limit

		Maximum Conducted Output Power Limit
UNI	I Dev	vices
\boxtimes	For	the 5.15-5.25 GHz band:
		Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 - (G_{TX} - 6). e.i.r.p. at any elevation angle above 30 degrees \leq 125mW [21dBm]
	\boxtimes	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 $P_{Out} = 24 - (G_{TX} - 6)$.
	250	the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then = $24 - (G_{TX} - 6)$.
	of 2	the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser 50 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then = $24 - (G_{TX} - 6)$.
\boxtimes	For	the 5.725-5.85 GHz band:
		Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
		Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
		aximum conducted output power in dBm, e maximum transmitting antenna directional gain in dBi.

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3.3.2 Measuring Instruments

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

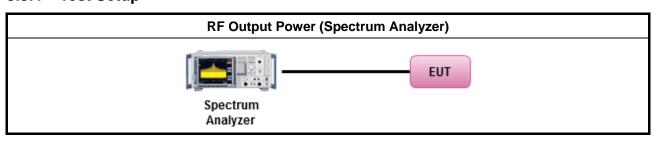
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3.3.3 Test Procedures

		Test Method
\boxtimes	Max	imum Conducted Output Power
	[duty	y cycle ≥ 98% or external video / power trigger]
		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) $$
	duty	cycle < 98% and average over on/off periods with duty factor
	\boxtimes	Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) $$
	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.
		The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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3.3.4 Test Setup



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3.3.5 Test Result of Maximum Conducted Output Power

		Maxim	າum Condເ	ıcted Outp	ut Power (5150-5250	MHz band)		
		Eroa	R	F Output F	Power (dBr	n)		DG	
Modulation Mode	NTX	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	(dBi)	EIRP Power
11a	3	5180	19.12	19.65	19.54	24.21	30.00	4.85	29.06
11a	3	5200	19.17	19.54	19.61	24.22	30.00	4.85	29.07
11a	3	5240	19.97	18.71	18.97	24.02	30.00	4.85	28.87
HT20	3	5180	19.46	20.08	20.20	24.69	30.00	4.85	29.54
HT20	3	5200	19.77	19.99	20.10	24.72	30.00	4.85	29.57
HT20	3	5240	20.19	19.40	19.47	24.47	30.00	4.85	29.32
HT40	3	5190	15.75	15.89	16.15	20.70	30.00	4.85	25.55
HT40	3	5230	23.21	22.34	22.51	27.47	30.00	4.85	32.32
VHT20	3	5180	19.32	20.21	20.04	24.64	30.00	4.85	29.49
VHT20	3	5200	19.88	19.71	20.06	24.65	30.00	4.85	29.50
VHT20	3	5240	20.41	19.20	19.47	24.49	30.00	4.85	29.34
VHT40	3	5190	18.73	18.87	19.20	23.71	30.00	4.85	28.56
VHT40	3	5230	23.23	22.31	22.54	27.48	30.00	4.85	32.33
VHT80	3	5210	14.25	14.12	14.11	18.93	30.00	4.85	23.78
Resu	ılt					Co	omplied		

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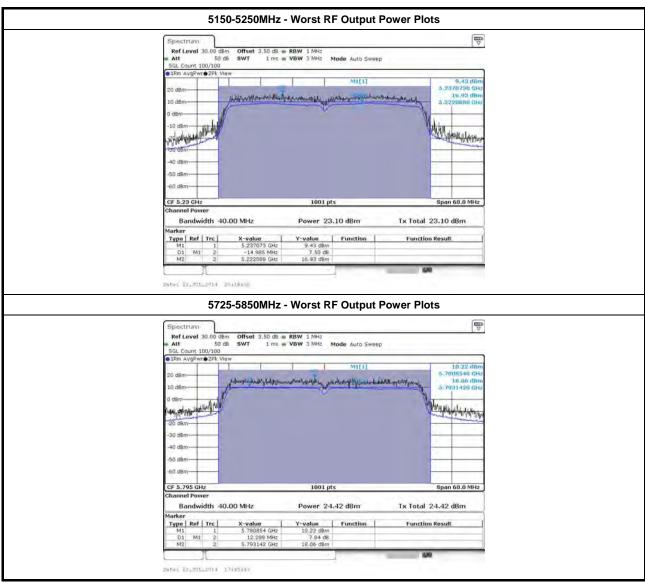
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		Maxim	um Conducte	ed Output Po	wer (5725-58	50MHz band	l)	
		Freq.		RF Output F		DG		
Modulation Mode	N _{TX}	(MHz)	Chain Port	Chain Port 2	Chain Port	Sum Chain	Power Limit	(dBi)
11a	1	5745	21.63	19.27	20.38	25.31	30.00	4.85
11a	1	5785	22.38	19.83	20.35	25.77	30.00	4.85
11a	1	5825	22.51	19.80	20.51	25.87	30.00	4.85
HT20	3	5745	22.50	19.84	20.64	25.91	30.00	4.85
HT20	3	5785	22.10	19.62	20.22	25.55	30.00	4.85
HT20	3	5825	22.44	19.70	20.49	25.80	30.00	4.85
HT40	3	5755	15.93	13.42	13.73	19.28	30.00	4.85
HT40	3	5795	24.55	22.68	23.24	28.33	30.00	4.85
VHT20	3	5745	23.44	20.85	22.01	27.00	30.00	4.85
VHT20	3	5785	23.67	21.41	22.02	27.24	30.00	4.85
VHT20	3	5825	24.32	21.74	22.53	27.77	30.00	4.85
VHT40	3	5755	19.12	16.88	16.87	22.53	30.00	4.85
VHT40	3	5795	24.42	22.25	22.81	28.03	30.00	4.85
VHT80	3	5775	13.94	11.55	11.61	17.28	30.00	4.85
Resu	ılt	•		•		Complied		

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Note 1: RF Output Power Plots w/o Duty Factor

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3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

		Peak Power Spectral Density Limit
UNI	I Dev	vices
\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, a 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, a 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 a maximum transmitting antenna directional gain in dBi.

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3.4.2 Measuring Instruments

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

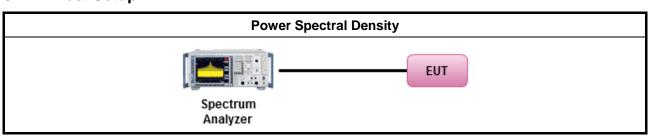
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3.4.3 Test Procedures

		Test Method
\boxtimes	outp func	c power spectral density procedures that the same method as used to determine the conducted out power shall be used to determine the peak power spectral density and use the peak search tion on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density be measured using below options:
		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]
		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) $$
	duty	cycle < 98% and average over on/off periods with duty factor
	\boxtimes	Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033 D02 v01, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) $$
\boxtimes	For	conducted measurement.
		The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
	\boxtimes	The EUT supports multiple transmit chains using options given below:
		Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
		If multiple transmit chains, EIRP PPSD calculation could be following as methods: $ PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n \\ (calculated in linear unit [mW] and transfer to log unit [dBm]) \\ EIRP_{total} = PPSD_{total} + DG $
		Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

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3.4.4 Test Setup



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3.4.5 Test Result of Peak Power Spectral Density

		Peak F	ower Spectral Density Resu	lt (5150-5250MHz ban	d)
Modulation Mode	N _{TX}	Freq. (MHz)	Peak Power Spectral Density (dBm/MHz)	PSD Limit	PSD-DG (dBi)
11a	3	5180	13.13	13.38	9.62
11a	3	5200	12.90	13.38	9.62
11a	3	5240	12.75	13.38	9.62
HT20	3	5180	13.00	13.38	9.62
HT20	3	5200	13.18	13.38	9.62
HT20	3	5240	12.85	13.38	9.62
HT40	3	5190	6.12	13.38	9.62
HT40	3	5230	13.07	13.38	9.62
VHT20	3	5180	13.08	13.38	9.62
VHT20	3	5200	13.24	13.38	9.62
VHT20	3	5240	12.99	13.38	9.62
VHT40	3	5190	9.31	13.38	9.62
VHT40	3	5230	12.98	13.38	9.62
VHT80	3	5210	10.04	13.38	9.62
Resu	ılt	•		Complied	

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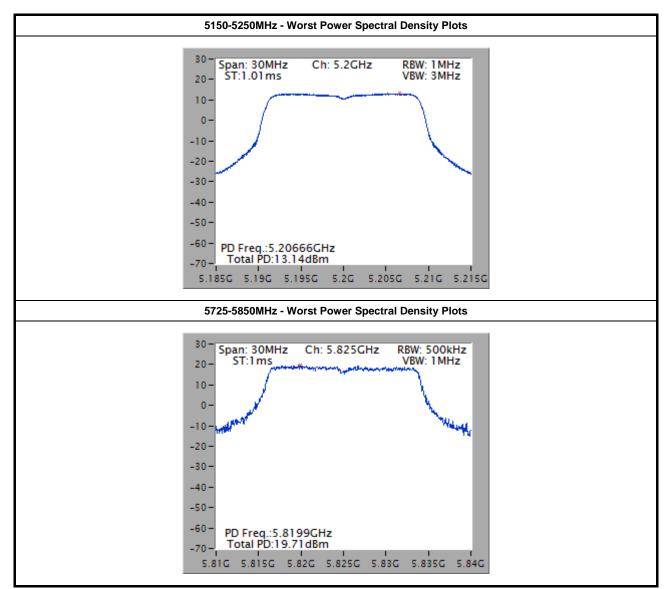
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		Peak P	ower Spectral Density Result (5	5725-5850MHz band)	
Modulation Mode	N _{TX}	Freq. (MHz)	Peak Power Spectral Density (dBm/500kHz)	PSD Limit	PSD-DG (dBi)
11a	3	5745	17.78	26.38	9.62
11a	3	5785	18.70	26.38	9.62
11a	3	5825	17.90	26.38	9.62
HT20	3	5745	17.59	26.38	9.62
HT20	3	5785	17.46	26.38	9.62
HT20	3	5825	18.23	26.38	9.62
HT40	3	5755	8.57	26.38	9.62
HT40	3	5795	17.51	26.38	9.62
VHT20	3	5745	18.89	26.38	9.62
VHT20	3	5785	19.24	26.38	9.62
VHT20	3	5825	19.81	26.38	9.62
VHT40	3	5755	12.06	26.38	9.62
VHT40	3	5795	17.29	26.38	9.62
VHT80	3	5775	5.61	26.38	9.62
Resu	ılt		•	Complied	•

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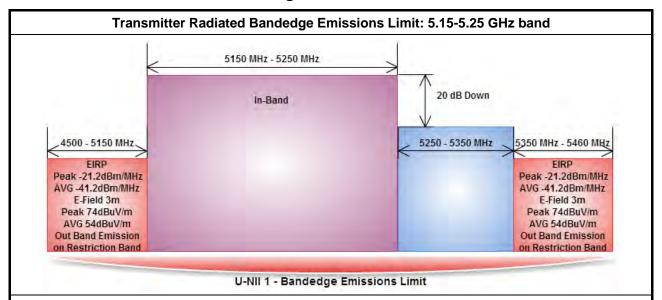
RF Power Spectral Density Plots w/o Duty Factor

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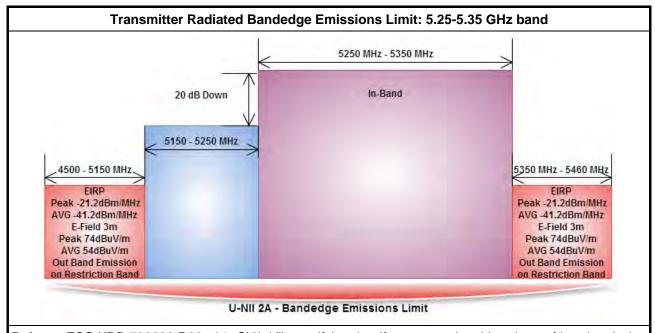
3.5 Transmitter Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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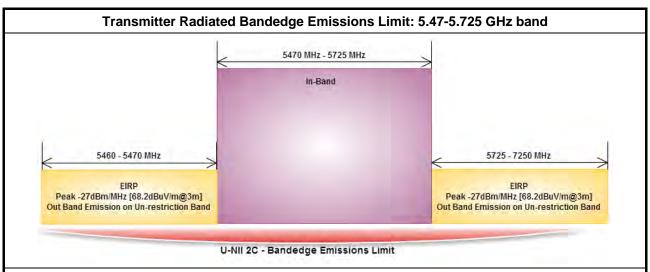
Refer as FCC KDB 789033 D02 v01, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.



Refer as FCC KDB 789033 D02 v01, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

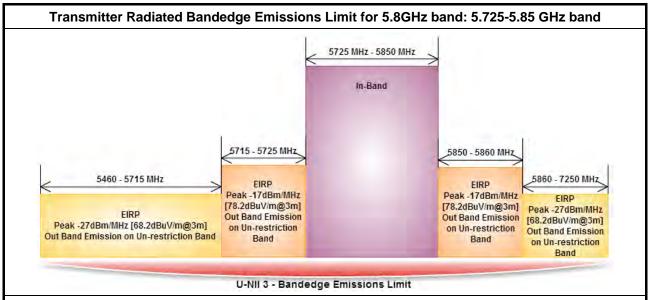
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Refer as FCC KDB 789033 D02 v01, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: 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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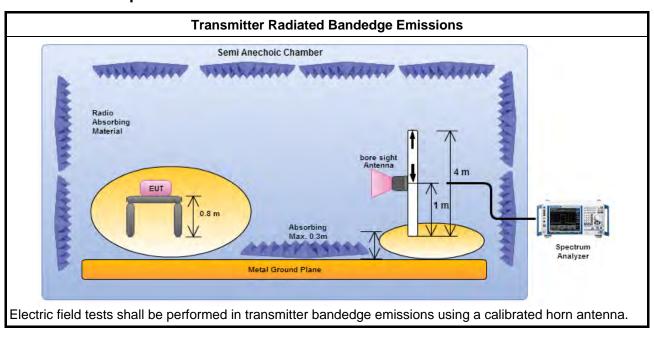
FCC Test Report Report No.: FR441445AN

3.5.3 Test Procedures

	Test Method
\boxtimes	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
\boxtimes	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	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:
	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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3.5.4 Test Setup



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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	3	5180	3	5149.90	65.87	74	5150.00	51.43	54	Н
11a	3	5240	3	5368.80	63.28	74	5398.20	49.37	54	Н
HT20	3	5180	3	5149.90	67.57	74	5149.90	51.62	54	Н
HT20	3	5240	3	5397.00	61.87	74	5400.00	48.31	54	Н
HT40	3	5190	3	5149.94	66.02	74	5149.94	52.03	54	Н
HT40	3	5230	3	5356.80	64.33	74	5354.40	48.86	54	Н
VHT20	3	5180	3	5149.40	69.81	74	5149.90	52.35	54	Н
VHT20	3	5240	3	5359.80	61.28	74	5394.60	48.07	54	Н
VHT40	3	5190	3	5149.72	66.99	74	5150.00	52.15	54	Н
VHT40	3	5230	3	5361.60	62.08	74	5360.40	48.52	54	Н
VHT80	3	5210	3	5362.80	61.27	74	5398.20	47.70	54	Н

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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	3	5745	3	5722.38	70.44	78.2	Н
11a	3	5825	3	5851.96	70.24	78.2	Н
HT20	3	5745	3	5724.13	74.09	78.2	Н
HT20	3	5825	3	5853.43	71.22	78.2	Н
HT40	3	5755	3	5724.80	72.46	78.2	Н
HT40	3	5795	3	5855.20	68.65	78.2	Н
VHT20	3	5745	3	5724.76	73.59	78.2	Н
VHT20	3	5825	3	5851.75	71.16	78.2	Н
VHT40	3	5755	3	5724.88	69.81	78.2	Н
VHT40	3	5795	3	5850.40	68.88	78.2	Н
VHT80	3	5775	3	5724.94	70.20	78.2	Н

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3.6 Transmitter Unwanted Emissions

3.6.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

3.6.2 Measuring Instruments

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

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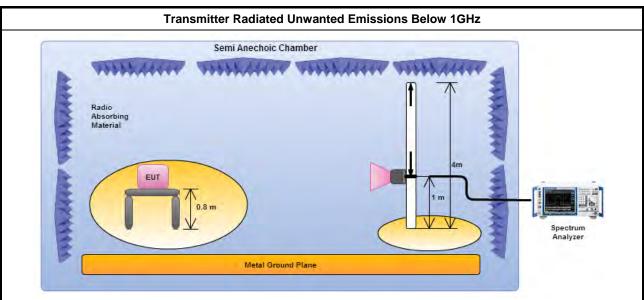
FCC Test Report Report No.: FR441445AN

3.6.3 Test Procedures

	Test Method									
perf equi abor are be e dista	issurements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement 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 assurements).									
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:									
	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.									
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.									
\boxtimes	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.									
	implitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.									

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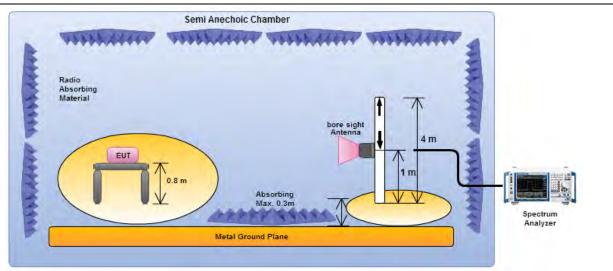
3.6.4 Test Setup



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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



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

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

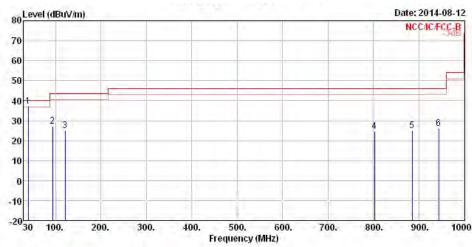
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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Transmitter Radiated Unwanted Emissions (Below 1GHz)



Report No.: FR441445AN



	Freq	Level	0∨er Limit			Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
_	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		CIII	deg
1!	39.70	37.35	-2.65	40.00	50.55	13.08	1.02	27.30	QP	1444	1222
2	94.02	27.11	-16.39	43.50	42.72	10.12	1.53	27.26	Peak	1-555	1.555
3	121.18	25.02	-18.48	43.50	37.84	12.56	1.80	27.18	Peak	797	1,222
4	802.12	24.47	-21.53	46.00	27.49	19.68	4.92	27.62	Peak		1444
5	885.54	24.87	-21.13	46.00	26.67	20.42	5.12	27.34	Peak	1444	1222
6	943.74	26.29	-19.71	46.00	27.52	20.81	5.31	27.35	Peak		1.555

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

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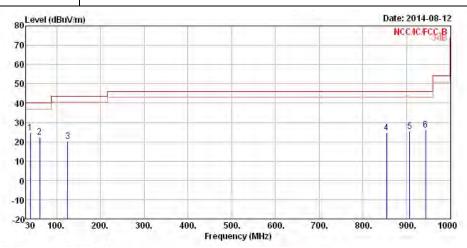
FCC Test Report

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode 2 Polarization H

Operating Function PoE Mode

Report No.: FR441445AN



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
0-	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		Cm	deg
1	39.70	24.47	-15.53	40.00	37.67	13.08	1.02	27.30	Peak	444	
2	61.04	22.26	-17.74	40.00	41.61	6.85	1.26	27.46	Peak		
3	125.06	20.34	-23.16	43.50	33.20	12.49	1.83	27.18	Peak	1.394	19940
4	854.50	24.60	-21.40	46.00	26.78	20.31	4.95	27.44	Peak		
5	906.88	25.46	-20.54	46.00	26.98	20.57	5.21	27.30	Peak	444	
6	943.74	26.17	-19.83	46.00	27.40	20.81	5.31	27.35	Peak		

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

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

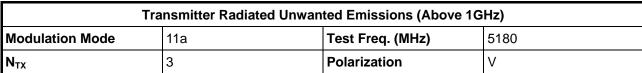
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

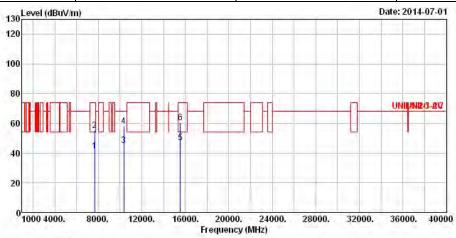
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR441445AN





			Over	Limit	Reada	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	7691.60	41.02	-12.98	54.00	29.61	36.38	7.78	32.75	Average	-222	1,222
2	7691.60	54.98	-19.02	74.00	43.57	36.38	7.78	32.75	Peak	1444	1
3	10360.00	45.19	-23.01	68.20	30.97	38.07	8.92	32.77	Average	1222	1224
4	10360.00	58.03	-10.17	68.20	43.81	38.07	8.92	32.77	Peak	1.555	1/9991
5	15540.00	46.82	-7.18	54.00	29.56	37.87	11.59	32.20	Average	1.252	1.222
6	15540.00	60.65	-13.35	74.00	43.39	37.87	11.59	32.20	Peak	1444	1

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

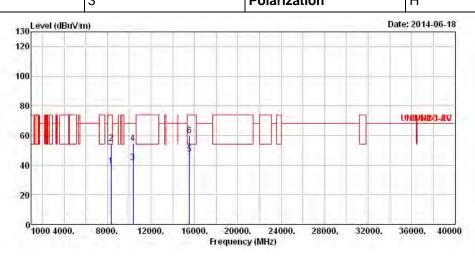
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5180

N_{TX} 3 Polarization H

Report No.: FR441445AN

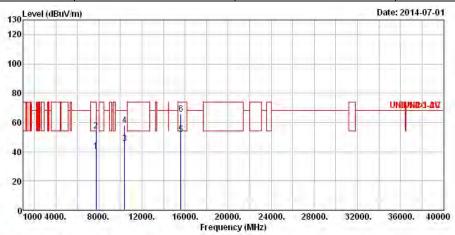


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		cm	deg
1	8320.00	39.43	-14.57	54.00	27.13	37.02	8.09	32.81	Average	444	
2	8320.00	54.60	-19.40	74.00	42.30	37.02	8.09	32.81	Peak		
3	10360.00	41.85	-26.35	68.20	27.63	38.07	8.92	32.77	Average	-356	19944
4	10360.00	54.72	-13.48	68.20	40.50	38.07	8.92	32.77	Peak		
5	15540.00	47.31	-6.69	54.00	30.05	37.87	11.59	32.20	Average	1966	1944
6	15540.00	59.98	-14.02	74.00	42.72	37.87	11.59	32.20	Peak		

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

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Tra	nsmitter Radiated Unwan	ted Emissions (Above 1G	iHz)
Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	3	Polarization	V



	Freq	Level	0∨er Limit		1900	Antenna Factor		Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7752.00	40.33	-27.87	68.20	28.83	36.40	7.86	32.76	Average	1444	1444
2	7752.00	54.20	-14.00	68.20	42.70	36.40	7.86	32.76	Peak	1222	1224
3	10400.00	45.55	-22.65	68.20	31.26	38.08	8.94	32.73	Average	-557	
4	10400.00	58.18	-10.02	68.20	43.89	38.08	8.94	32.73	Peak	222	1222
5	15600.00	51.99	-2.01	54.00	34.80	37.82	11.59	32.22	Average	1444	1777
6	15600.00	65.58	-8.42	74.00	48.39	37.82	11.59	32.22	Peak	1224	1222

- 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.

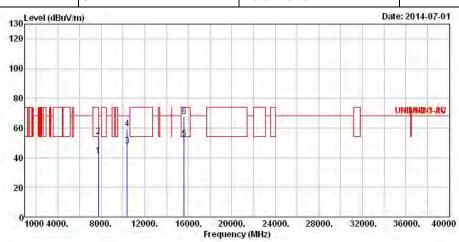
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5200

N_{TX} 3 Polarization H

Report No.: FR441445AN



			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	7734.00	41.10	-12.90	54.00	29.61	36.39	7.86	32.76	Average	0	0
2	7734.00	54.27	-19.73	74.00	42.78	36.39	7.86	32.76	Peak	0	0
3	10400.00	48.20	-20.00	68.20	33.91	38.08	8.94	32.73	Average	0	0
4	10400.00	59.54	-8.66	68.20	45.25	38.08	8.94	32.73	Peak	0	0
5	15600.00	52.65	-1.35	54.00	35.46	37.82	11.59	32.22	Average	0	0
6	15600.00	67.70	-6.30	74.00	50.51	37.82	11.59	32.22	Peak	0	0

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)

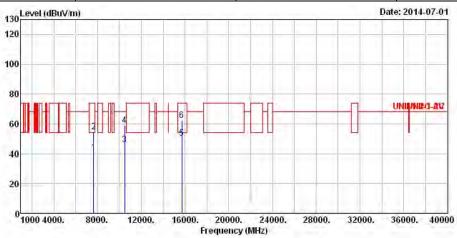
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	11a	Test Freq. (MHz)	5240
N _{TX}	3	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	7643.70	40.63	-13.37	54.00	29.37	36.36	7.64	32.74	Average		
2	7643.70	54.54	-19.46	74.00	43.28	36.36	7.64	32.74	Peak	1444	
3	10480.00	46.11	-22.09	68.20	31.69	38.10	8.99	32.67	Average		
4	10480.00	58.87	-9.33	68.20	44.45	38.10	8.99	32.67	Peak	1.356	
5	15720.00	50.43	-3.57	54.00	33.37	37.72	11.59	32.25	Average		
6	15720.00	62.55	-11.45	74.00	45.49	37.72	11.59	32.25	Peak	1999	

- 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.

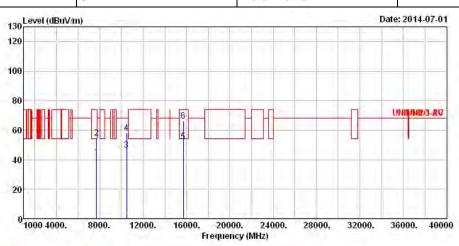
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5240

N_{TX} 3 Polarization H

Report No.: FR441445AN



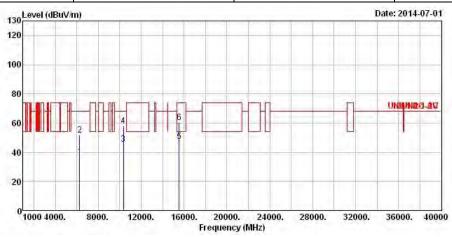
			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	r Loss	s Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIII	deg
1	7715.60	41.94	-12.06	54.00	30.52	36.39	7.78	32.75	Average		
2	7715.60	54.88	-19.12	74.00	43.46	36.39	7.78	32.75	Peak		
3	10480.00	46.41	-21.79	68.20	31.99	38.10	8.99	32.67	Average	0	0
4	10480.00	57.83	-10.37	68.20	43.41	38.10	8.99	32.67	Peak	0	0
5	15720.00	52.29	-1.71	54.00	35.23	37.72	11.59	32.25	Average	0	0
6	15720.00	66.05	-7.95	74.00	48.99	37.72	11.59	32.25	Peak	0	0

- 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)	5180						
N _{TX}	3	Polarization	V						



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit		Line Le∨el	Factor	r Loss m dB	Factor	Remark	- Cm	
	MHz	dBuV/m	dBuV/m dB		dBuV	dB/m		dB			deg
1	6266.50	37.17	-31.03	68.20	28.85	34.15	6.63	32.46	Average		
2	6266.50	51.84	-16.36	68.20	43.52	34.15	6.63	32.46	Peak	1222	12.22
3	10360.00	45.73	-22.47	68.20	31.51	38.07	8.92	32.77	Average		
4	10360.00	58.14	-10.06	68.20	43.92	38.07	8.92	32.77	Peak	225	
5	15540.00	47.65	-6.35	54.00	30.39	37.87	11.59	32.20	Average		355
6	15540.00	60.67	-13.33	74.00	43.41	37.87	11.59	32.20	Peak	1222	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.

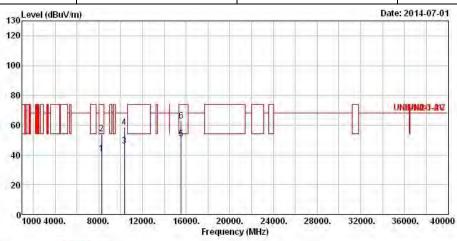
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5180

N_{TX} 3 Polarization H

Report No.: FR441445AN

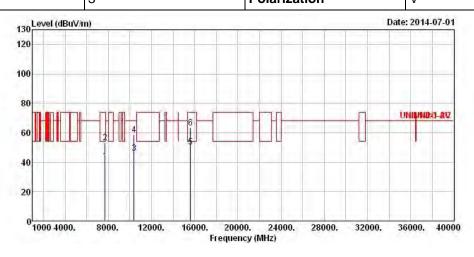


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Level Limit		Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		Cm	deg
1	8248.50	40.66	-13.34	54.00	28.44	36.89	8.13	32.80	Average		444
2	8248.50	54.13	-19.87	74.00	41.91	36.89	8.13	32.80	Peak	1222	222
3	10360.00	46.08	-22.12	68.20	31.86	38.07	8.92	32.77	Average		
4	10360.00	58.70	-9.50	68.20	44.48	38.07	8.92	32.77	Peak	1224	1224
5	15540.00	50.82	-3.18	54.00	33.56	37.87	11.59	32.20	Average		
6	15540.00	62.98	-11.02	74.00	45.72	37.87	11.59	32.20	Peak	444	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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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	5200						
N	3	Polarization	V						

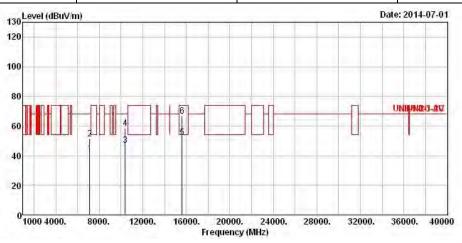


	Freq	Level	0√er Limit	Limit Line		Antenna Factor		and the second second		A/Pos	T/Pos
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		CIN	deg
1	7721.60	40.92	-13.08	54.00	29.51	36.39	7.78	32.76	Average	1666	1666
2	7721.60	53.38	-20.62	74.00	41.97	36.39	7.78	32.76	Peak		
3	10400.00	46.27	-21.93	68.20	31.98	38.08	8.94	32.73	Average		
4	10400.00	58.46	-9.74	68.20	44.17	38.08	8.94	32.73	Peak		
5	15600.00	50.45	-3.55	54.00	33.26	37.82	11.59	32.22	Average	566	1566
6	15600.00	63.52	-10.48	74.00	46.33	37.82	11.59	32.22	Peak		

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	5200							
N_{TX}	3	Polarization	Н							

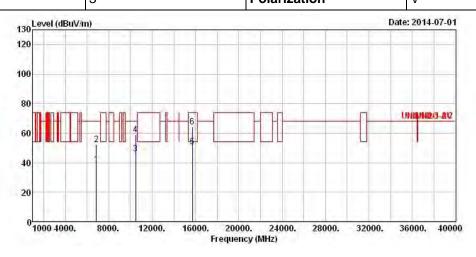


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	L Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7122.80	41.23	-26.97	68.20	31.24	35.47	7.14	32.62	Average	1444	
2	7122.80	51.51	-16.69	68.20	41.52	35.47	7.14	32.62	Peak	1224	244
3	10400.00	47.05	-21.15	68.20	32.76	38.08	8.94	32.73	Average	0	0
4	10400.00	58.39	-9.81	68.20	44.10	38.08	8.94	32.73	Peak	0	0
5	15600.00	52.44	-1.56	54.00	35.25	37.82	11.59	32.22	Average	0	0
6	15600.00	66.48	-7.52	74.00	49.29	37.82	11.59	32.22	Peak	0	0

- 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 Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{=v}	3	Polarization	V

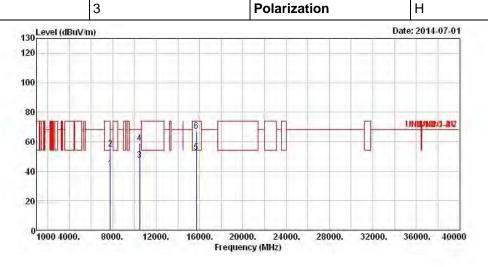


			0√er	A		Antenna		and the second		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Factor Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6853.30	38.73	-29.47	68.20	29.47	34.89	6.92	32.55	Average	1966	
2	6853.30	52.47	-15.73	68.20	43.21	34.89	6.92	32.55	Peak		
3	10480.00	45.95	-22.25	68.20	31.53	38.10	8.99	32.67	Average		
4	10480.00	58.95	-9.25	68.20	44.53	38.10	8.99	32.67	Peak		
5	15720.00	51.02	-2.98	54.00	33.96	37.72	11.59	32.25	Average	1.555	1.555
6	15720.00	64.16	-9.84	74.00	47.10	37.72	11.59	32.25	Peak		

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	5240							
N_{TX}	3	Polarization	Н							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	or Loss	Factor	Remark		
1	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7775.40	41.93	-26.27	68.20	30.35	36.41	7.93	32.76	Average		
2	7775.40	55.02	-13.18	68.20	43.44	36.41	7.93	32.76	Peak	444	
3	10480.00	47.52	-20.68	68.20	33.10	38.10	8.99	32.67	Average	0	0
4	10480.00	58.84	-9.36	68.20	44.42	38.10	8.99	32.67	Peak	0	0
5	15720.00	52.88	-1.12	54.00	35.82	37.72	11.59	32.25	Average	0	0
6	15720.00	67.27	-6.73	74.00	50.21	37.72	11.59	32.25	Peak	0	0

- 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.

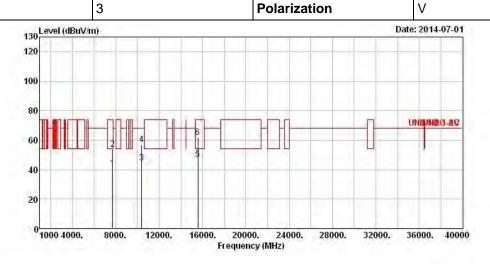
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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5190

Report No.: FR441445AN



			0∨er	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	7716.00	40.85	-13.15	54.00	29.43	36.39	7.78	32.75	Average	0	0
2	7716.00	53.77	-20.23	74.00	42.35	36.39	7.78	32.75	Peak	0	0
3	10380.00	44.38	-23.82	68.20	30.11	38.08	8.94	32.75	Average	0	0
4	10380.00	56.86	-11.34	68.20	42.59	38.08	8.94	32.75	Peak	0	0
5	15570.00	47.17	-6.83	54.00	29.94	37.84	11.59	32.20	Average	0	0
6	15570.00	61.78	-12.22	74.00	44.55	37.84	11.59	32.20	Peak	0	0

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

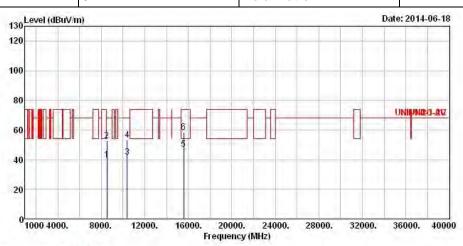
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5190

N_{TX} 3 Polarization H

Report No.: FR441445AN



			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	8530.00	39.78	-28.42	68.20	27.28	37.33	7.99	32.82	Average		
2	8530.00	52.99	-15.21	68.20	40.49	37.33	7.99	32.82	Peak	1222	1222
3	10380.00	41.78	-26.42	68.20	27.51	38.08	8.94	32.75	Average		
4	10380.00	53.12	-15.08	68.20	38.85	38.08	8.94	32.75	Peak	222	222
5	15570.00	47.08	-6.92	54.00	29.85	37.84	11.59	32.20	Average		227
6	15570.00	58.57	-15.43	74.00	41.34	37.84	11.59	32.20	Peak	444	12.22

- 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.

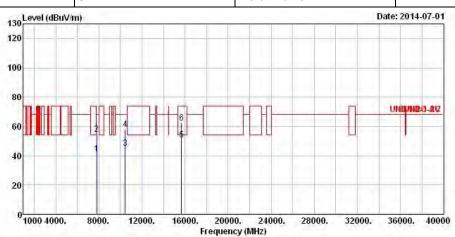
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5230

N_{TX} 3 Polarization V

Report No.: FR441445AN



	Freq	Level	O∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7805.00	41.09	-27.11	68.20	29.51	36.42	7.93	32.77	Average	0	0
2	7805.00	54.64	-13.56	68.20	43.06	36.42	7.93	32.77	Peak	0	0
3	10460.00	45.26	-22.94	68.20	30.87	38.09	8.99	32.69	Average	0	0
4	10460.00	57.85	-10.35	68.20	43.46	38.09	8.99	32.69	Peak	0	0
5	15690.00	50.62	-3.38	54.00	33.52	37.75	11.59	32.24	Average	0	0
6	15690.00	62.37	-11.63	74.00	45.27	37.75	11.59	32.24	Peak	0	0

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

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

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

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

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

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

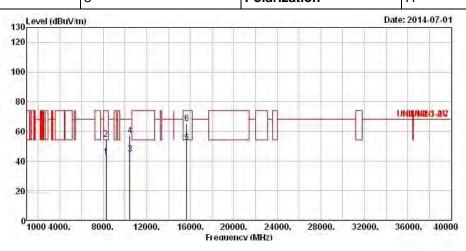
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5230

N_{TX} 3 Polarization H

Report No.: FR441445AN



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8249.00	42.57	-11.43	54.00	30.35	36.89	8.13	32.80	Average	Ø	0
2	8249.00	54.59	-19.41	74.00	42.37	36.89	8.13	32.80	Peak	0	0
3	10460.00	44.71	-23.49	68.20	30.32	38.09	8.99	32.69	Average	0	0
4	10460.00	57.10	-11.10	68.20	42.71	38.09	8.99	32.69	Peak	0	0
5	15690.00	52.35	-1.65	54.00	35.25	37.75	11.59	32.24	Average	0	0
6	15690.00	65.24	-8.76	74.00	48.14	37.75	11.59	32.24	Peak	0	0

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

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

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

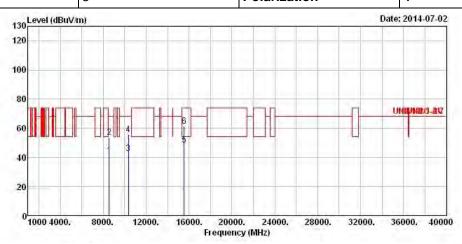
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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	Transmitter Radiat	ed Unwanted Emissions (Above	1GHz)
Modulation Mode	VHT20	Test Freq. (MHz)	5180
N _{TY}	3	Polarization	V



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
3	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8544.00	41.07	-27.13	68.20	28.57	37.34	7.99	32.83	Average		
2	8544.00	53.62	-14.58	68.20	41.12	37.34	7.99	32.83	Peak		444
3	10360.00	42.62	-25.58	68.20	28.40	38.07	8.92	32.77	Average	0	0
4	10360.00	55.68	-12.52	68.20	41.46	38.07	8.92	32.77	Peak		- 666
5	15540.00	48.28	-5.72	54.00	31.02	37.87	11.59	32.20	Average	0	0
6	15540.00	61.24	-12.76	74.00	43.98	37.87	11.59	32.20	Peak		

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

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

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

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

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

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

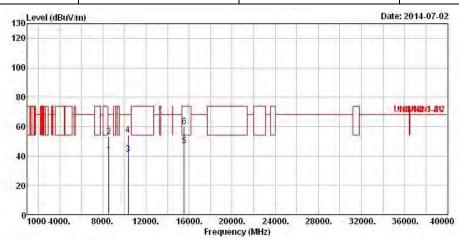
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Report No.: FR441445AN

Modulation Mode VHT20 Test Freq. (MHz) 5180

N_{TX} 3 Polarization H



	Freq	Level	0√er Limit	Limit Line		Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	8550.00	40.73	-27.47	68.20	28.25	37.34	7.97	32.83	Average	1566	1666
2	8550.00	53.25	-14.95	68.20	40.77	37.34	7.97	32.83	Peak		
3	10360.00	41.06	-27.14	68.20	26.84	38.07	8.92	32.77	Average	1996	396
4	10360.00	54.01	-14.19	68.20	39.79	38.07	8.92	32.77	Peak		
5	15540.00	47.21	-6.79	54.00	29.95	37.87	11.59	32.20	Average	555	1566
6	15540.00	60.00	-14.00	74.00	42.74	37.87	11.59	32.20	Peak		

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

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

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

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

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

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

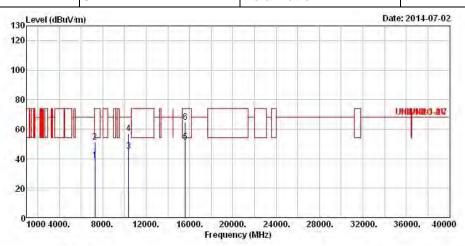
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT20 Test Freq. (MHz) 5200

N_{TX} 3 Polarization V

Report No.: FR441445AN



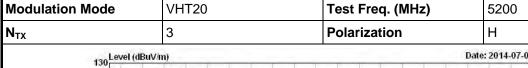
			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
1	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	CIII	deg
1	7290.00	38.98	-15.02	54.00	28.55	35.84	7.25	32.66	Average	0	0
2	7290.00	51.24	-22.76	74.00	40.81	35.84	7.25	32.66	Peak	0	0
3	10400.00	45.28	-22.92	68.20	30.99	38.08	8.94	32.73	Average	0	0
4	10400.00	56.85	-11.35	68.20	42.56	38.08	8.94	32.73	Peak	0	0
5	15600.00	51.40	-2.60	54.00	34.21	37.82	11.59	32.22	Average	0	0
6	15600.00	64.71	-9.29	74.00	47.52	37.82	11.59	32.22	Peak	0	0

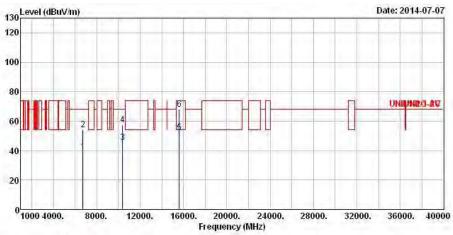
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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.: FR441445AN





			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	6732.00	39.44	-28.76	68.20	30.49	34.65	6.83	32.53	Average	0	0
2	6732.00	54.42	-13.78	68.20	45.47	34.65	6.83	32.53	Peak	0	0
3	10400.00	45.38	-22.82	68.20	31.09	38.08	8.94	32.73	Average	0	0
4	10400.00	57.76	-10.44	68.20	43.47	38.08	8.94	32.73	Peak	0	0
5	15600.00	52.49	-1.51	54.00	35.30	37.82	11.59	32.22	Average	0	0
6	15600.00	68.11	-5.89	74.00	50.92	37.82	11.59	32.22	Peak	0	0

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

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

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

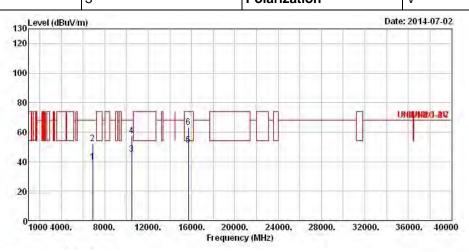
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

SPORTON INTERNATIONAL INC. Page No. : 61 of 101 TEL: 886-3-327-3456 Report Version : Rev. 01

Tra	ansmitter Radiated Unwan	ted Emissions (Above 1G	Hz)
Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{+v}	3	Polarization	V

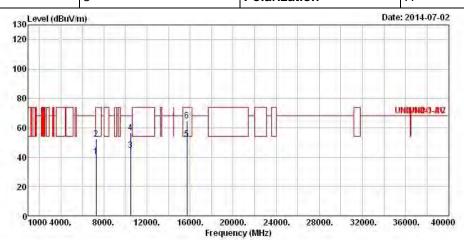


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	CIII	deg
1	6894.00	39.69	-28.51	68.20	30.30	34.99	6.96	32.56	Average	0	0
2	6894.00	52.06	-16.14	68.20	42.67	34.99	6.96	32.56	Peak	0	0
3	10480.00	45.07	-23.13	68.20	30.65	38.10	8.99	32.67	Average	0	0
4	10480.00	57.44	-10.76	68.20	43.02	38.10	8.99	32.67	Peak	0	0
5	15720.00	51.14	-2.86	54.00	34.08	37.72	11.59	32.25	Average	0	0
6	15720.00	63.40	-10.60	74.00	46.34	37.72	11.59	32.25	Peak	0	0

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

SPORTON INTERNATIONAL INC. Page No. : 62 of 101 TEL: 886-3-327-3456 Report Version : Rev. 01

	Transmitter Radia	ated Unwanted Emissions (Abov	e 1GHz)
Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TY}	3	Polarization	Н



	Francis	Laval	0∨er	Limit Line		Antenna		State of the state of		A/Pos	T/Pos
	rred	rever	LIMIL	rine	rever	ractor	LOSS	ractor	Kellark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7278.00	40.14	-13.86	54.00	29.74	35.81	7.25	32.66	Average	0	0
2	7278.00	52.27	-21.73	74.00	41.87	35.81	7.25	32.66	Peak	0	0
3	10480.00	44.71	-23.49	68.20	30.29	38.10	8.99	32.67	Average	0	0
4	10480.00	56.46	-11.74	68.20	42.04	38.10	8.99	32.67	Peak	0	0
5	15720.00	52.33	-1.67	54.00	35.27	37.72	11.59	32.25	Average	0	0
6	15720.00	64.84	-9.16	74.00	47.78	37.72	11.59	32.25	Peak	0	0

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)

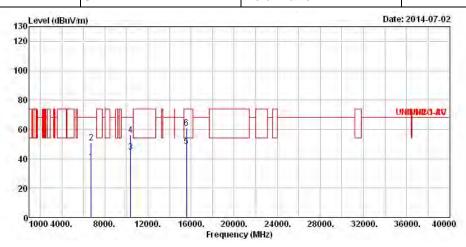
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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	ransmitter Radiated Unwar	nted Emissions (Above 1G	iHz)
Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _{TX}	3	Polarization	V



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CM	deg
1	6738.00	37.81	-30.39	68.20	28.83	34.68	6.83	32.53	Average	0	0
2	6738.00	50.92	-17.28	68.20	41.94	34.68	6.83	32.53	Peak	0	0
3	10380.00	44.49	-23.71	68.20	30.22	38.08	8.94	32.75	Average	0	0
4	10380.00	56.07	-12.13	68.20	41.80	38.08	8.94	32.75	Peak	0	0
5	15570.00	48.50	-5.50	54.00	31.27	37.84	11.59	32.20	Average	Θ	0
6	15570.00	60.89	-13.11	74.00	43.66	37.84	11.59	32.20	Peak	0	0

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

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

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

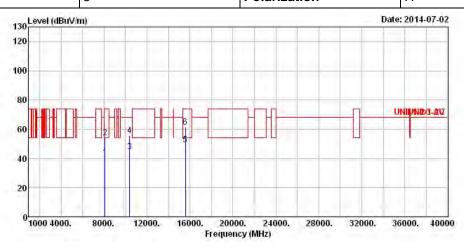
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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	Transmitter Radiat	ed Unwanted Emissions (Above	e 1GHz)
Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _T x	3	Polarization	Н



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIII	deg
1	8100.00	40.58	-13.42	54.00	28.49	36.67	8.22	32.80	Average	Ø	Ø
2	8100.00	54.06	-19.94	74.00	41.97	36.67	8.22	32.80	Peak	0	0
3	10380.00	44.50	-23.70	68.20	30.23	38.08	8.94	32.75	Average	0	0
4	10380.00	55.85	-12.35	68.20	41.58	38.08	8.94	32.75	Peak	0	0
5	15570.00	49.33	-4.67	54.00	32.10	37.84	11.59	32.20	Average	0	0
6	15570.00	61.46	-12.54	74.00	44.23	37.84	11.59	32.20	Peak	0	0

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

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

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

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

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

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

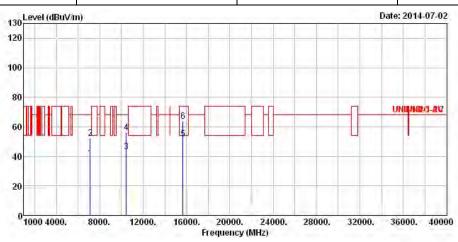
SPORTON INTERNATIONAL INC. Page No. : 65 of 101 TEL: 886-3-327-3456 Report Version : Rev. 01

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT40 Test Freq. (MHz) 5230

N_{TX} 3 Polarization V

Report No.: FR441445AN

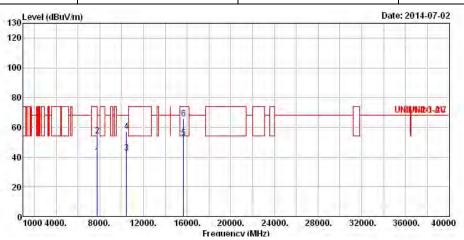


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level.	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7116.00	38.92	-29.28	68.20	28.93	35.47	7.14	32.62	Average	0	0
2	7116.00	52.09	-16.11	68.20	42.10	35.47	7.14	32.62	Peak	0	0
3	10460.00	43.22	-24.98	68.20	28.83	38.09	8.99	32.69	Average	0	0
4	10460.00	56.27	-11.93	68.20	41.88	38.09	8.99	32.69	Peak	0	0
5	15690.00	51.63	-2.37	54.00	34.53	37.75	11.59	32.24	Average	0	0
6	15690.00	63.67	-10.33	74.00	46.57	37.75	11.59	32.24	Peak	0	0

- 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)	5230						
N _{TX}	3	Polarization	Н						



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7764.00	40.11	-28.09	68.20	28.60	36.41	7.86	32.76	Average	0	Ø
2	7764.00	54.03	-14.17	68.20	42.52	36.41	7.86	32.76	Peak	0	0
3	10460.00	42.76	-25.44	68.20	28.37	38.09	8.99	32.69	Average	0	0
4	10460.00	56.97	-11.23	68.20	42.58	38.09	8.99	32.69	Peak	0	0
5	15690.00	52.83	-1.17	54.00	35.73	37.75	11.59	32.24	Average	0	0
6	15690.00	65.72	-8.28	74.00	48.62	37.75	11.59	32.24	Peak	0	0

- 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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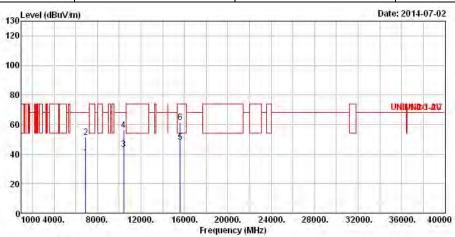
FCC Test Report

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT80 Test Freq. (MHz) 5210

N_{TX} 3 Polarization V

Report No.: FR441445AN

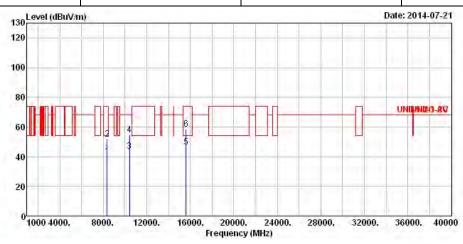


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6912.00	37.86	-30.34	68.20	28.40	35.03	6.99	32.56	Average	Ø	Ø
2	6912.00	51.13	-17.07	68.20	41.67	35.03	6.99	32.56	Peak	0	0
3	10420.00	43.23	-24.97	68.20	28.91	38.08	8.97	32.73	Average	0	0
4	10420.00	56.15	-12.05	68.20	41.83	38.08	8.97	32.73	Peak	0	0
5	15630.00	47.87	-6.13	54.00	30.72	37.79	11.59	32.23	Average	0	0
6	15630.00	61.53	-12.47	74.00	44.38	37.79	11.59	32.23	Peak	0	0

- 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	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		CIII	deg
1	8354.00	40.45	-13.55	54.00	28.11	37.08	8.07	32.81	Average	1995	
2	8354.00	51.93	-22.07	74.00	39.59	37.08	8.07	32.81	Peak		
3	10420.00	43.42	-24.78	68.20	29.10	38.08	8.97	32.73	Average	1444	1000
4	10420.00	54.88	-13.32	68.20	40.56	38.08	8.97	32.73	Peak		
5	15630.00	46.69	-7.31	54.00	29.54	37.79	11.59	32.23	Average		
6	15630.00	58.42	-15.58	74.00	41.27	37.79	11.59	32.23	Peak		

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

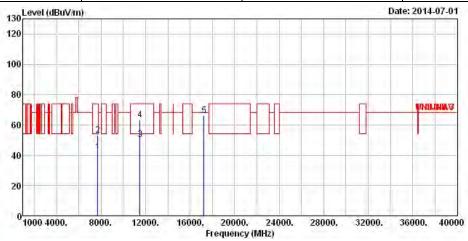
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FCC Test Report

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

Report No.: FR441445AN

Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5745						
N_{TX}	3	Polarization	V						

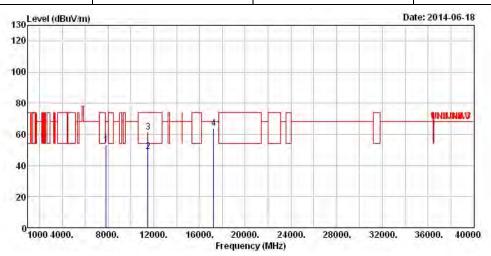


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7721.60	41.98	-12.02	54.00	30.57	36.39	7.78	32.76	Average	242	
2	7721.60	53.24	-20.76	74.00	41.83	36.39	7.78	32.76	Peak		
3	11490.00	50.53	-3.47	54.00	34.05	38.78	10.04	32.34	Average		
4	11490.00	63.36	-10.64	74.00	46.88	38.78	10.04	32.34	Peak		
5	17235.00	66.38	-1.82	68.20	43.49	42.68	11.59	31.38	Peak	1.114	1111

- 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)	5745						
N _{TX}	3	Polarization	Н						



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7826.00	53.40	-14.80	68.20	41.74	36.43	8.00	32.77	Peak	444	444
2	11490.00	49.05	-24.95	74.00	32.57	38.78	10.04	32.34	Average		
3	11490.00	61.33	-12.67	74.00	44.85	38.78	10.04	32.34	Peak	13.56	1994
4	17235.00	63.58	-4.62	68.20	40.69	42.68	11.59	31.38	Peak		

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

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

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

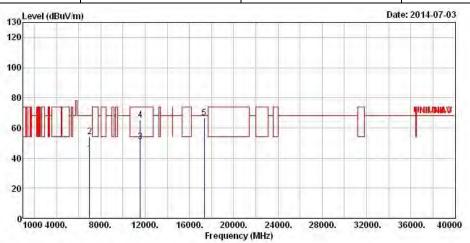
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11a	Test Freq. (MHz)	5785						
N _{TX}	3	Polarization	V						



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos	
	Freq	Le∨el	Le∨el Limit	Line	Level	Factor	Loss	Factor	Remark			
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		cm	deg	
1	7003.00	42.91	-25.29	68.20	33.24	35.20	7.05	32.58	Average			
2	7003.00	54.23	-13.97	68.20	44.56	35.20	7.05	32.58	Peak	444	1222	
3	11570.00	51.01	-2.99	54.00	34.48	38.84	10.04	32.35	Average	455	455	
4	11570.00	65.09	-8.91	74.00	48.56	38.84	10.04	32.35	Peak		444	
5	17355.00	66.45	-1.75	68.20	42.50	43.52	11.85	31.42	Peak	15.55	337	

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

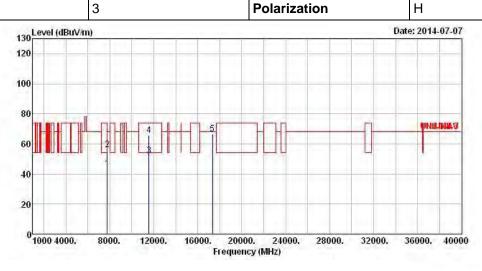
SPORTON INTERNATIONAL INC. Page No. : 72 of 101
TEL: 886-3-327-3456 Report Version : Rev. 01

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5785

N_{TX} 3 Polarization H

Report No.: FR441445AN



			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	7769.50	43.77	-24.43	68.20	32.19	36.41	7.93	32.76	Average		
2	7769.50	56.11	-12.09	68.20	44.53	36.41	7.93	32.76	Peak	1444	
3	11570.00	52.41	-1.59	54.00	35.88	38.84	10.04	32.35	Average		
4	11570.00	65.70	-8.30	74.00	49.17	38.84	10.04	32.35	Peak	555	
5	17355.00	66.47	-1.73	68.20	42.51	43.52	11.85	31.41	Peak		

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

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

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

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

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

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

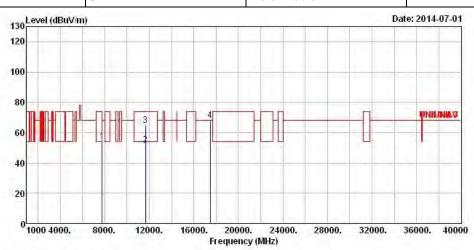
SPORTON INTERNATIONAL INC. Page No. : 73 of 101 TEL: 886-3-327-3456 Report Version : Rev. 01

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5825

N_{TX} 3 Polarization V

Report No.: FR441445AN



			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	7782.00	54.12	-14.08	68.20	42.54	36.41	7.93	32.76	Peak		
2	11650.00	51.77	-2.23	54.00	35.22	38.88	10.03	32.36	Average	444	444
3	11650.00	64.82	-9.18	74.00	48.27	38.88	10.03	32.36	Peak		555
4	17475.00	68.15	-0.05	68.20	43.13	44.36	12.11	31.45	Peak		

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

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

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

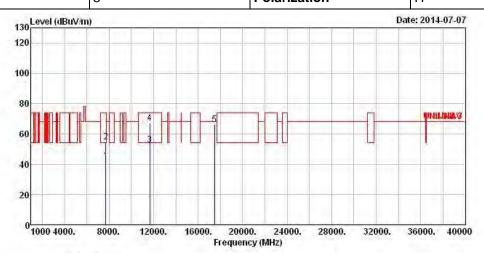
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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Т	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	11a	Test Freq. (MHz)	5825								
N _{TV}	3	Polarization	Н								



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	y -	CIII	deg
1	7697.60	42.30	-11.70	54.00	30.89	36.38	7.78	32.75	Average		
2	7697.60	54.64	-19.36	74.00	43.23	36.38	7.78	32.75	Peak	1.666	444
3	11650.00	52.89	-1.11	54.00	36.34	38.88	10.03	32.36	Average		
4	11650.00	67.36	-6.64	74.00	50.81	38.88	10.03	32.36	Peak		
5	17475.00	66.18	-2.02	68.20	41.16	44.36	12.11	31.45	Peak		

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

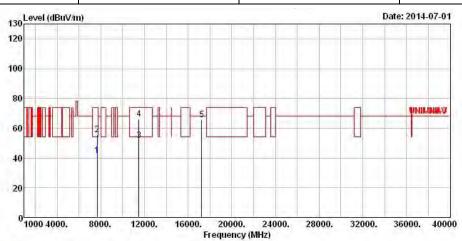
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5745

N_{TX} 3 Polarization V

Report No.: FR441445AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		Cm	deg
1	7684.92	41.82	-12.18	54.00	30.49	36.37	7.71	32.75	Average	1444	1666
2	7684.92	55.85	-18.15	74.00	44.52	36.37	7.71	32.75	Peak		
3	11490.00	51.73	-2.27	54.00	35.25	38.78	10.04	32.34	Average		999
4	11490.00	66.06	-7.94	74.00	49.58	38.78	10.04	32.34	Peak		
5	17235.00	65.74	-2.46	68.20	42.85	42.68	11.59	31.38	Peak	1666	566

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.

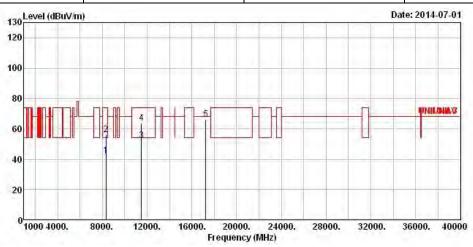
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5745

N_{TX} 3 Polarization H



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIN	deg
1	8344.30	42.15	-11.85	54.00	29.82	37.05	8.09	32.81	Average		
2	8344.30	56.13	-17.87	74.00	43.80	37.05	8.09	32.81	Peak	444	444
3	11490.00	52.06	-1.94	54.00	35.58	38.78	10.04	32.34	Average	455	
4	11490.00	63.75	-10.25	74.00	47.27	38.78	10.04	32.34	Peak	222	222
5	17235.00	66.07	-2.13	68.20	43.18	42.68	11.59	31.38	Peak	337	337

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

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

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

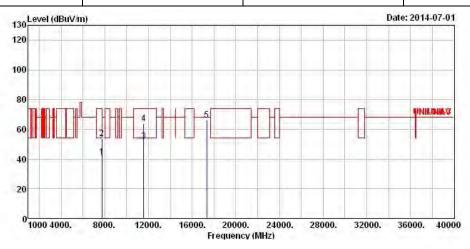
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	5785							
N _{TX}	3	Polarization	V							

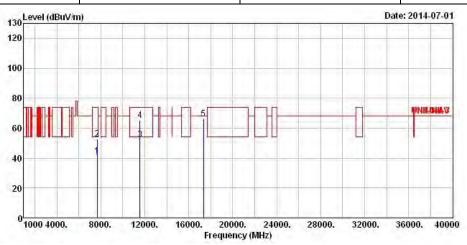


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7745.00	41.29	-12.71	54.00	29.79	36.40	7.86	32.76	Average	0	0
2	7745.00	53.70	-20.30	74.00	42.20	36.40	7.86	32.76	Peak	0	0
3	11570.00	51.93	-2.07	54.00	35.40	38.84	10.04	32.35	Average	0	0
4	11570.00	64.02	-9.98	74.00	47.49	38.84	10.04	32.35	Peak	0	0
5	17355.00	66.08	-2.12	68.20	42.12	43.52	11.85	31.41	Peak	0	0

- 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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Tı	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	5785							
N _{TX}	3	Polarization	Н							



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7685.00	41.18	-12.82	54.00	29.85	36.37	7.71	32.75	Average	1555	1777
2	7685.00	52.91	-21.09	74.00	41.58	36.37	7.71	32.75	Peak	1222	1222
3	11570.00	52.40	-1.60	54.00	35.87	38.84	10.04	32.35	Average	0	0
4	11570.00	65.41	-8.59	74.00	48.88	38.84	10.04	32.35	Peak	0	0
5	17355.00	66.32	-1.88	68.20	42.36	43.52	11.85	31.41	Peak	1777	1777

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

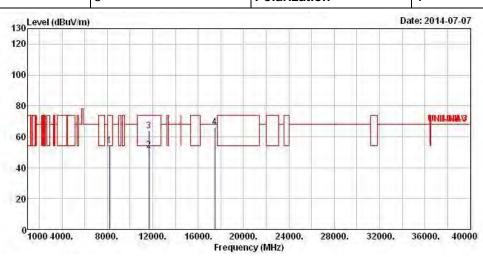
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5825

N_{TX} 3 Polarization V

Report No.: FR441445AN

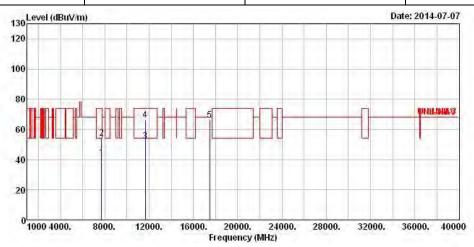


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	CIII	deg
1	8189.00	54.45	-19.55	74.00	42.27	36.80	8.18	32.80	Peak	Ø	0
2	11650.00	51.50	-2.50	54.00	34.95	38.88	10.03	32.36	Average	0	0
3	11650.00	63.81	-10.19	74.00	47.26	38.88	10.03	32.36	Peak	0	0
4	17475.00	66.03	-2.17	68.20	41.01	44.36	12.11	31.45	Peak	0	0

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	5825							
N _{TX}	3	Polarization	Н							

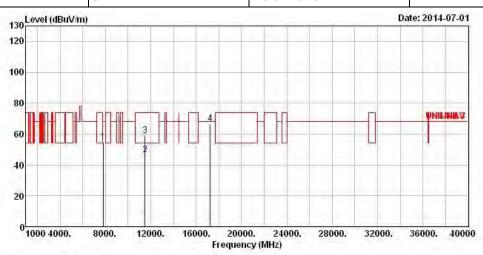


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7722.00	41.16	-12.84	54.00	29.75	36.39	7.78	32.76	Average	Ø	0
2	7722.00	54.16	-19.84	74.00	42.75	36.39	7.78	32.76	Peak	0	0
3	11650.00	52.42	-1.58	54.00	35.87	38.88	10.03	32.36	Average	0	0
4	11650.00	66.18	-7.82	74.00	49.63	38.88	10.03	32.36	Peak	0	0
5	17475.00	66.02	-2.18	68.20	41.00	44.36	12.11	31.45	Peak	0	Ø

- 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. 01

	Transmitter Rad	iated Unwanted Emissions (Above	e 1GHz)
Modulation Mode	HT40	Test Freq. (MHz)	5755
N _{TX}	3	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	7805.00	54.92	-13.28	68.20	43.34	36.42	7.93	32.77	Peak	0	0
2	11510.00	46.46	-7.54	54.00	29.96	38.80	10.04	32.34	Average	0	0
3	11510.00	58.98	-15.02	74.00	42.48	38.80	10.04	32.34	Peak	0	0
4	17265.00	66.46	-1.74	68.20	43.25	42.92	11.68	31.39	Peak	0	0

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)

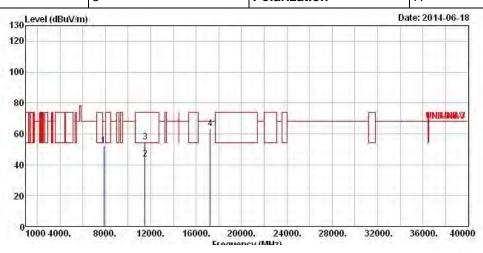
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 Un	wanted Emissions (Above	e 1GHz)
Modulation Mode	HT40	Test Freq. (MHz)	5755
N _{TY}	3	Polarization	Н

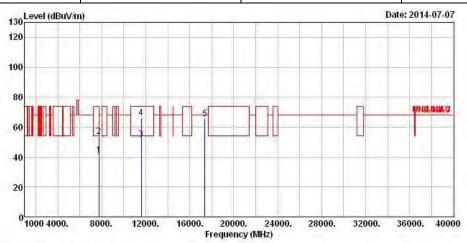


			0ver	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	_	CIN	deg
1	7870.00	52.28	-15.92	68.20	40.54	36.45	8.07	32.78	Peak	444	
2	11510.00	43.52	-10.48	54.00	27.02	38.80	10.04	32.34	Average		
3	11510.00	54.80	-19.20	74.00	38.30	38.80	10.04	32.34	Peak	1.444	
4	17265.00	63.53	-4.67	68.20	40.32	42.92	11.68	31.39	Peak		

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

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



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Cm	deg
1	7745.50	41.34	-12.66	54.00	29.84	36.40	7.86	32.76	Average		
2	7745.50	53.89	-20.11	74.00	42.39	36.40	7.86	32.76	Peak	444	1222
3	11590.00	51.92	-2.08	54.00	35.39	38.85	10.03	32.35	Average	555	777
4	11590.00	65.98	-8.02	74.00	49.45	38.85	10.03	32.35	Peak	222	222
5	17385.00	65.85	-2.35	68.20	41.58	43.76	11.94	31.43	Peak	227	333

- 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.

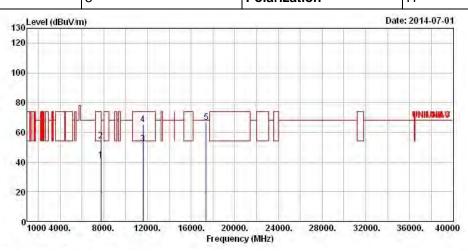
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TEL: 886-3-327-3456 Report Version : Rev. 01

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5795

N_{TX} 3 Polarization H

Report No.: FR441445AN

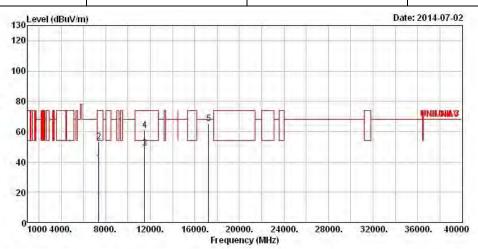


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIII	deg
1	7734.00	41.23	-12.77	54.00	29.74	36.39	7.86	32.76	Average	0	0
2	7734.00	54.23	-19.77	74.00	42.74	36.39	7.86	32.76	Peak	0	0
3	11590.00	52.42	-1.58	54.00	35.89	38.85	10.03	32.35	Average	0	0
4	11590.00	65.29	-8.71	74.00	48.76	38.85	10.03	32.35	Peak	0	0
5	17385.00	66.49	-1.71	68.20	42.22	43.76	11.94	31.43	Peak	0	0

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5745						
N _{TX}	3	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	7374.00	39.13	-14.87	54.00	28.48	36.03	7.31	32.69	Average	0	0
2	7374.00	53.09	-20.91	74.00	42.44	36.03	7.31	32.69	Peak	0	0
3	11490.00	49.07	-4.93	54.00	32.59	38.78	10.04	32.34	Average	0	0
4	11490.00	61.11	-12.89	74.00	44.63	38.78	10.04	32.34	Peak	0	0
5	17235.00	65.30	-2.90	68.20	42.41	42.68	11.59	31.38	Peak	0	0

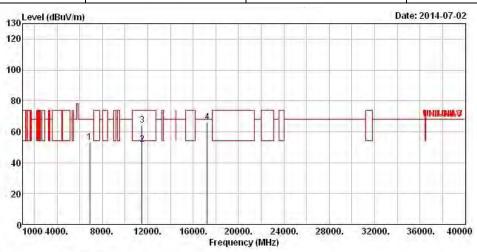
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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.: FR441445AN

Modulation ModeVHT20Test Freq. (MHz)5745N_{TX}3PolarizationH



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	-	CIN	deg
1	6882.00	53.49	-14.71	68.20	44.13	34.96	6.96	32.56	Peak	Ø	0
2	11490.00	51.66	-2.34	54.00	35.18	38.78	10.04	32.34	Average	0	0
3	11490.00	64.36	-9.64	74.00	47.88	38.78	10.04	32.34	Peak	0	0
4	17235.00	66.25	-1.95	68.20	43.36	42.68	11.59	31.38	Peak	0	0

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

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

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

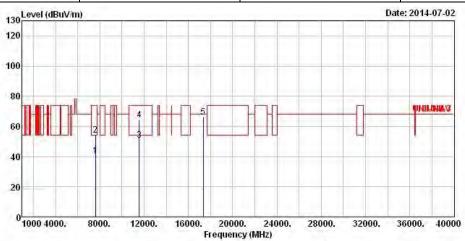
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

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

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

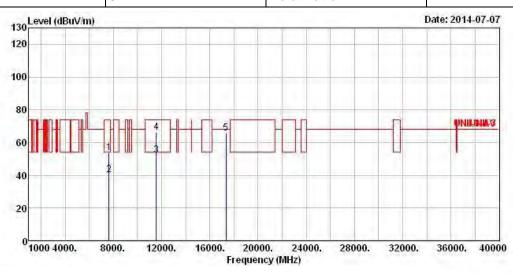


			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.00	40.06	-13.94	54.00	28.81	36.35	7.64	32.74	Average	0	0
2	7620.00	54.08	-19.92	74.00	42.83	36.35	7.64	32.74	Peak	0	0
3	11570.00	50.86	-3.14	54.00	34.33	38.84	10.04	32.35	Average	0	0
4	11570.00	64.05	-9.95	74.00	47.52	38.84	10.04	32.35	Peak	0	0
5	17355.00	66.27	-1.93	68.20	42.31	43.52	11.85	31.41	Peak	0	0

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

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



			Over	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7638.00	53.66	-0.34	54.00	42.41	36.35	7.64	32.74	Average	0	0
2	7638.00	40.23	-13.77	54.00	28.98	36.35	7.64	32.74	Average	0	0
3	11570.00	52.43	-1.57	54.00	35.90	38.84	10.04	32.35	Average	0	0
4	11570.00	66.19	-7.81	74.00	49.66	38.84	10.04	32.35	Peak	0	0
5	17355.00	65.87	-2.33	68.20	41.91	43.52	11.85	31.41	Peak	0	0

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)

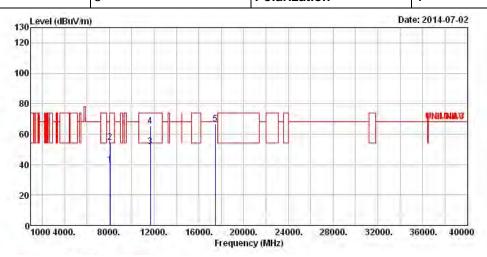
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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 _{TY}	3	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	8058.00	39.71	-14.29	54.00	27.69	36.58	8.24	32.80	Average	Ø	Ø
2	8058.00	54.68	-19.32	74.00	42.66	36.58	8.24	32.80	Peak	0	0
3	11650.00	51.71	-2.29	54.00	35.16	38.88	10.03	32.36	Average	0	0
4	11650.00	65.16	-8.84	74.00	48.61	38.88	10.03	32.36	Peak	0	0
5	17475.00	66.58	-1.62	68.20	41.56	44.36	12.11	31.45	Peak	0	0

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.

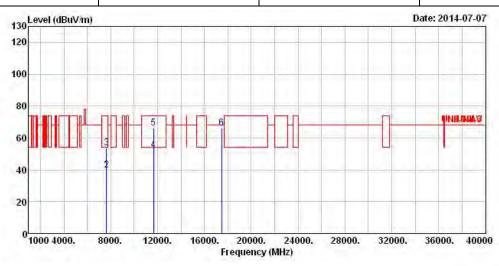
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT20 Test Freq. (MHz) 5825

N_{TX} 3 Polarization H

Report No.: FR441445AN

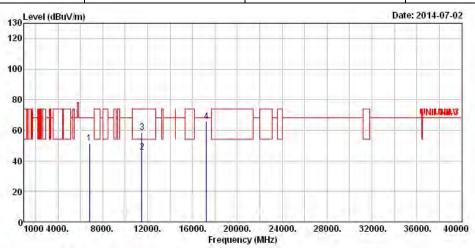


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	ie Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7644.00	39.83	-14.17	54.00	28.57	36.36	7.64	32.74	Average	0	0
2	7644.00	39.83	-14.17	54.00	28.57	36.36	7.64	32.74	Average	0	0
3	7644.00	53.72	-20.28	74.00	42.46	36.36	7.64	32.74	Peak	0	0
4	11650.00	52.46	-1.54	54.00	35.91	38.88	10.03	32.36	Average	0	0
5	11650.00	66.31	-7.69	74.00	49.76	38.88	10.03	32.36	Peak	0	0
6	17475.00	66.01	-2.19	68.20	40.99	44.36	12.11	31.45	Peak	0	0

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

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



	Freq	Level	0∨er Limit		1,000	Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB		cm	deg
1	6816.00	51.29	-16.91	68.20	42.12	34.82	6.89	32.54	Peak	Ø	0
2	11510.00	45.64	-8.36	54.00	29.14	38.80	10.04	32.34	Average	0	0
3	11510.00	58.61	-15.39	74.00	42.11	38.80	10.04	32.34	Peak	0	0
4	17265.00	65.93	-2.27	68.20	42.72	42.92	11.68	31.39	Peak	0	0

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)

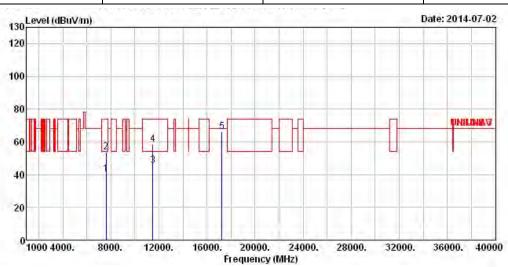
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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



			Over			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
í	7626.00	40.29	-13.71	54.00	29.04	36.35	7.64	32.74	Average	0	0
2	7626.00	53.79	-20.21	74.00	42.54	36.35	7.64	32.74	Peak	0	0
3	11510.00	45.73	-8.27	54.00	29.23	38.80	10.04	32.34	Average	0	0
4	11510.00	58.29	-15.71	74.00	41.79	38.80	10.04	32.34	Peak	0	0
5	17265.00	66.42	-1.78	68.20	43.21	42.92	11.68	31.39	Peak	0	0

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)

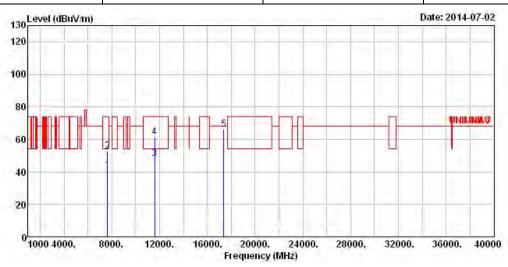
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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							



			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	7632.00	40.84	-13.16	54.00	29.59	36.35	7.64	32.74	Average	0	0
2	7632.00	52.93	-21.07	74.00	41.68	36.35	7.64	32.74	Peak	0	0
3	11590.00	48.06	-5.94	54.00	31.53	38.85	10.03	32.35	Average	0	0
4	11590.00	61.48	-12.52	74.00	44.95	38.85	10.03	32.35	Peak	0	0
5	17385.00	66.30	-1.90	68.20	42.03	43.76	11.94	31.43	Peak	Θ	0

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.

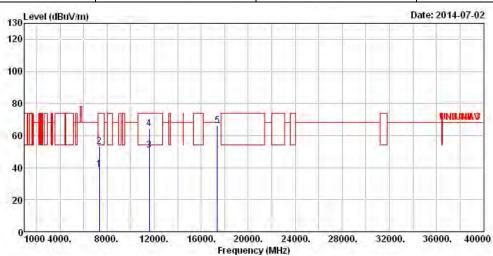
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FCC Test Report

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	VHT40	Test Freq. (MHz)	5795				
N_{TX}	3	Polarization	Н				

Report No.: FR441445AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
0	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB		CIII	deg
1	7356.00	39.09	-14.91	54.00	28.46	36.00	7.31	32.68	Average	0	ø
2	7356.00	53.43	-20.57	74.00	42.80	36.00	7.31	32.68	Peak	0	0
3	11590.00	50.69	-3.31	54.00	34.16	38.85	10.03	32.35	Average	0	0
4	11590.00	64.40	-9.60	74.00	47.87	38.85	10.03	32.35	Peak	0	0
5	17385.00	66.11	-2.09	68.20	41.84	43.76	11.94	31.43	Peak	0	0

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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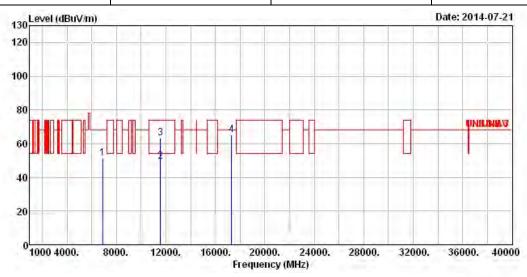
FCC Test Report

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT80 Test Freq. (MHz) 5775

N_{TX} 3 Polarization V

Report No.: FR441445AN

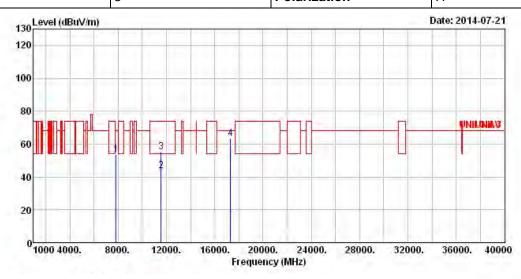


		4.50.50		Limit			10000	The state of the s		A/Pos	T/Pos
	Freq	rever	Limit	Line	rever	Factor	Loss	Factor	Kemark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6894.00	51.48	-16.72	68.20	42.09	34.99	6.96	32.56	Peak	0	0
2	11550.00	49.40	-4.60	54.00	32.88	38.83	10.04	32.35	Average	0	0
3	11550.00	63.28	-10.72	74.00	46.76	38.83	10.04	32.35	Peak	0	0
4	17325.00	65.26	-2.94	68.20	41.54	43.28	11.85	31.41	Peak	0	0

- 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 _{TY}	3	Polarization	Н				



	Freq	Level	0∨er Limit			Antenna Factor		Preamp Factor		A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		- CIII	deg
1	7840.00	53.55	- 14.65	68.20	41.89	36.43	8.00	32.77	Peak	1444	1444
2	11550.00	43.66	-10.34	54.00	27.14	38.83	10.04	32.35	Average	1222	1222
3	11550.00	55.03	-18.97	74.00	38.51	38.83	10.04	32.35	Peak		
4	17325.00	63.40	-4.80	68.20	39.68	43.28	11.85	31.41	Peak	1.222	222

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

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

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

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

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

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

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FCC Test Report No.: FR441445AN

3.7 Frequency Stability

3.7.1 Frequency Stability Limit

	Frequency Stability Limit
UN	II Devices
\boxtimes	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEE	E Std. 802.11n-2009
\boxtimes	The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band and \pm 25 ppm maximum for the 2.4 GHz band.

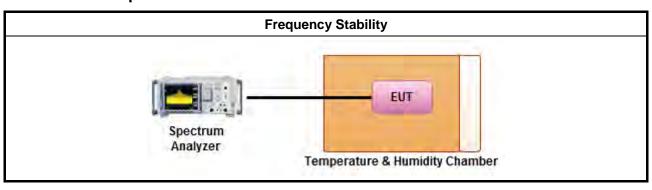
3.7.2 Measuring Instruments

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.						
		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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FCC Test Report Report No.: FR441445AN

3.7.5 Test Result of Frequency Stability

		Frequency Stability Result				
Мо	de	Frequency Stability (ppm)				
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)			
T _{20°C} Vmax	5180	5180.01320	2.5483			
T _{20°C} Vmin	5180	5180.01300	2.5097			
T _{50°C} Vnom	5180	5180.02560	4.9421			
T _{40°C} Vnom	5180	5180.01560	3.0116			
T _{30°C} Vnom	5180	5180.01380	2.6641			
T _{20°C} Vnom	5180	5180.01320	2.5483			
T _{10°C} Vnom	5180	5180.02160	4.1699			
T _{0°C} Vnom	5180	5180.02780	5.3668			
T _{-10°C} Vnom	5180	5180.03420	6.6023			
T _{-20°C} Vnom	5180	5180.03680	7.1042			
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 1.1.5 for EUT operational condition.

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4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	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	0-7611832020001	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	MAB0103-001	-20 ~ 100°C	Nov. 20, 2013	RF Conducted
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 26, 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
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
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 30, 2013	Radiation
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 05, 2014	Radiation
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Aug. 20, 2013	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 21, 2013	Radiation
Horn Antenna	ETS · LINDGREN	3115	6744	1GHz ~ 18GHz	May 05, 2014	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 16, 2013	Radiation
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 11, 2013	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	Oct. 17, 2013	Radiation
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	Dec. 02, 2012	Radiation

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

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