

Report No.: FR611103AN

FCC Test Report

Equipment	:	AMobile 5" RISC-based Panel PC		
Brand Name	:	AMobile		
Model No.	:	IOT-500		
FCC ID	:	2ACC5-HM500		
Standard	:	47 CFR FCC Part 15.407		
Operating Band	:	5150 MHz – 5250 MHz 5725 MHz – 5850 MHz		
FCC Classification	•	NII		
i oo olassiiloatioii	•			
Applicant		AMobile Intelligent Corp 18F1, No.150, Jian 1st Rd., Zhong He Dist., New Taipei City 235, Taiwan		
	:	18F1, No.150, Jian 1st Rd., Zhong He Dist.,		

The product sample received on Jan. 11, 2016 and completely tested on Feb. 21, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

Fixed P2P AP

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:

Kevin Liang / Assistant Manager

Client

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APPENDIX A. TEST PHOTOS

APPENDIX B. PHOTOGRAPHS OF EUT

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Summary of Test Result

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

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Revision History

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Report No.	Version	Description	Issued Date
FR611103AN	Rev. 03	Initial issue of report	Mar. 21, 2016

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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information (5150-5250MHz band)					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)
5150-5250	а	5180-5240	36-48 [4]	1	19.42
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	19.37
5150-5250	n (HT40)	5190-5230	38-46 [2]	1	19.42
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	1	19.30
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	1	19.34
5150-5250	ac (VHT80)	5210	48 [1]	1	11.34

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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.

RF General Information (5725-5850MHz band)						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	
5725-5850	а	5745-5825	149-165 [5]	1	19.92	
5725-5850	n (HT20)	5745-5825	149-165 [5]	1	19.84	
5725-5850	n (HT40)	5755-5795	151-159 [2]	1	19.53	
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	1	19.74	
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	1	19.49	
5725-5850	ac (VHT80)	5755	155 [1]	1	16.35	

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

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

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1.1.2 Antenna Information

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

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Antenna General Information					
Ant. Cat.	Ant. Type	Ant. Brand	Ant. Model	Ant. Connector	Gain (dBi)
External	Dipole	KINSUN	6602303081	Reverse-SMA	4.49

1.1.3 Type of EUT

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

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1.1.4 Test Signal Duty Cycle

	Operated Mode for Worst Duty Cycle				
	Operated normally mode for worst duty cycle				
\boxtimes	Operated test mode for worst duty cycle				
	Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)			
\boxtimes	100.00% - IEEE 802.11a	0.00			
\boxtimes	100.00% - IEEE 802.11n (HT20)	0.00			
\boxtimes	100.00% - IEEE 802.11n (HT40)	0.00			
\boxtimes	100.00% - IEEE 802.11ac (VHT20)	0.00			
\boxtimes	100.00% - IEEE 802.11ac (VHT40)	0.00			
\boxtimes	100.00% - IEEE 802.11ac (VHT80)	0.00			

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1.1.5 EUT Operational Condition

Supply Voltage	☐ AC mains	⊠ DC	
Type of DC Source	☐ External DC adapter		☐ Battery

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1.2 Support Equipment

	Support Equipment - AC Conduction and Radiated Emission					
No.	. Equipment Brand Name Model Name FCC ID					
1	DC Power Supply	GWINSTEK	GPS-3030DD	-		

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 C63.10-2013
- FCC KDB 789033 D02 v01r01
- FCC KDB 644545 D03 v01
- FCC-14-30A1-UNII
- FCC KDB 662911 D01 v02r01

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 City, Taiwan, R.O.C.				
	TEL: 886-3-327-3456				
Test Condition Test Site No. Test Engineer Test Environment					Test Environment
	AC Condu	ction	CO04-HY	Ryan	22°C / 55%
RF Conducted			TH01-HY	Candy	23°C / 63%
I	Radiated Em	nission	03CH09-HY	Joe	22.2°C / 51.8%
	Test Site Registration Number				
FCC					
	636805				

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

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2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing						
Modulation Mode	Modulation Mode Transmit Chains (N _{TX}) Data Rate / MCS Worst Data Rate / MC					
11a	1	6-54Mbps	6 Mbps			
HT20	1	MCS 0-7	M0			
HT40	1	MCS 0-7	MO			
VHT20	1	MCS 0-8	MO			
VHT40	1	MCS 0-9	MO			
VHT80	1	MCS 0-9	MO			

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)								
Test Software				Engine	erMode			
		Test Frequency (MHz)						
Modulation Mode	N _{TX}	NCB: 20MHz			NCB: 40MHz		NCB: 80MHz	
		5180	5200	5240	5190	5230	5775	
11a	1	18	30	30	-	-	-	
HT20	1	17.5	30	30	-	-	-	
HT40	1	-	-	-	14	30	-	
VHT20	1	17.5	30	30	-	-	-	
VHT40	1	-	-	-	14	30	-	
VHT80	1	-	-	-	-	-	13	

The Worst Case Power Setting Parameter (5725-5850MHz band)								
Test Software	Test Software PuTTY							
				Test Fred	quency (MH	z)		
Modulation Mode	N _{TX}		NCB: 20MHz		NCB: 40MHz		NCB: 80MHz	
		5745	5785	5825	5755	5795	5775	
11a	1	20	30	30	-	-	-	
HT20	1	21	30	30	-	-	-	
HT40	1	-	-	-	19	22	-	
VHT20	1	21	30	30	-	-	-	
VHT40	1	-	-	-	19	22	-	
VHT80	1	-	-	-	-	-	17	

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2.3 The Worst Case Measurement Configuration

Т	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	Transmit Mode (DC Power Supply 12V)		
2	Transmit Mode (DC Power Supply 24V)		
The "mode 2" generated the worst test result; it was reported as final data.			

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

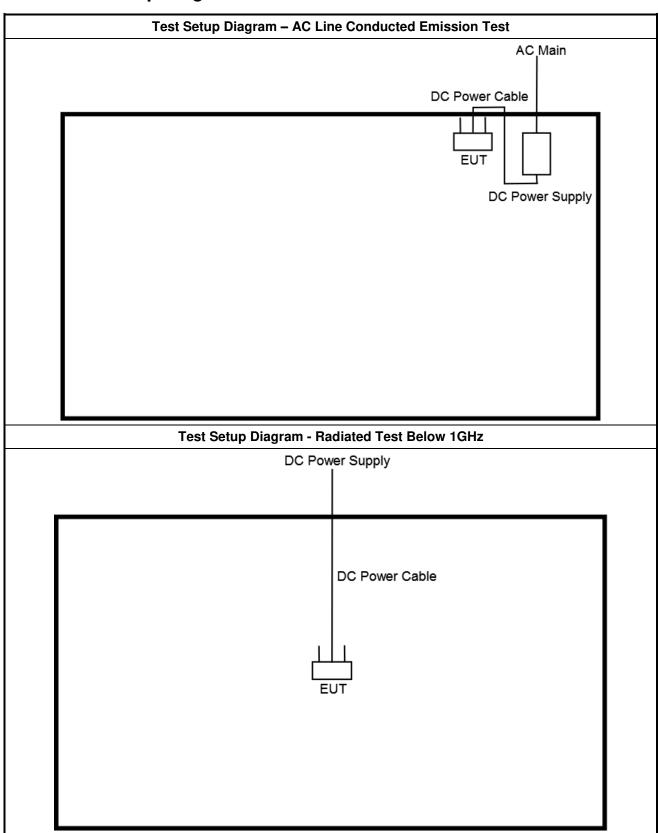
Th	e Worst Case Mode for Fo	ollowing Conformance Te	sts	
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions			
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO 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.			
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.			
Operating Mode	Operating Mode Description			
	Transmit Mode (DC Power Supply 12V)			
Radiated Below 1GHz	2. Transmit Mode (DC Po	ower Supply 24V)		
	The "mode 2" generated the worst test result; it was reported as final data.			
Radiated Above 1GHz	Transmit Mode			
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80			
	X Plane	Y Plane	Z Plane	
Orthogonal Planes of EUT				
Worst Planes of EUT	V			

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Test Setup Diagram 2.4



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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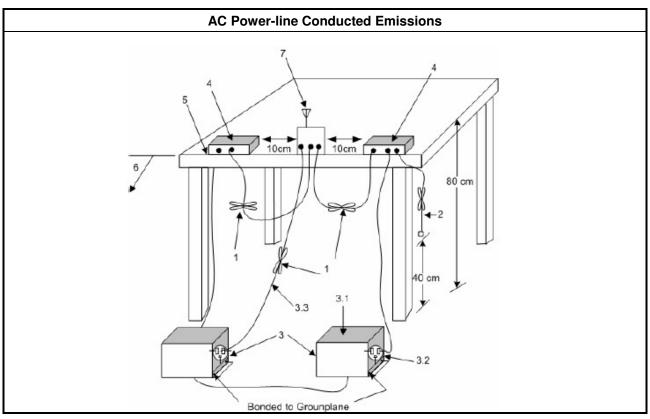
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

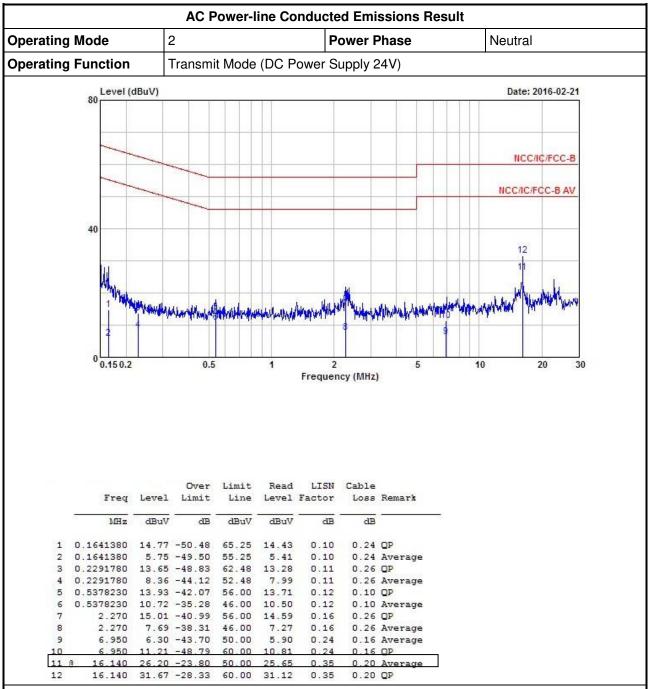
3.1.4 Test Setup



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3.1.5 Test Result of AC Power-line Conducted Emissions

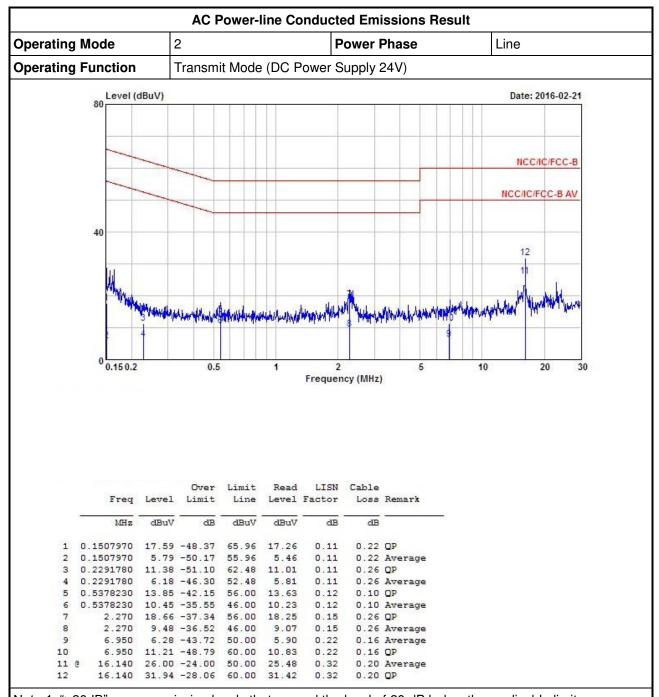


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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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

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

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3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

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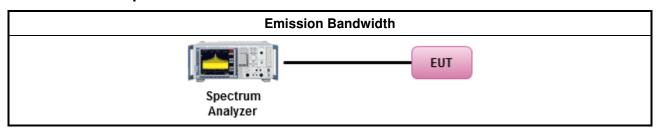
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

		Test Method
\boxtimes	For	the emission bandwidth shall be measured using one of the options below:
	\boxtimes	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
		Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
		Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
\boxtimes	For	conducted measurement.
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain port 1.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below:
		Option 1: 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.

3.2.4 Test Setup



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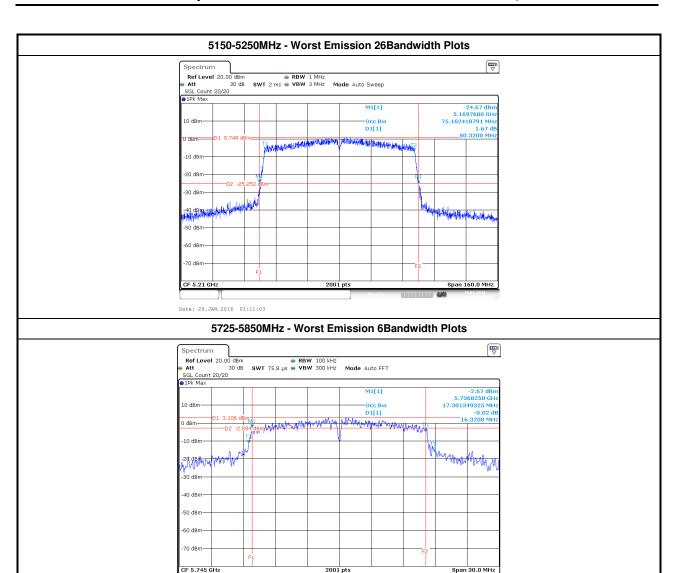
3.2.5 Test Result of Emission Bandwidth

Condit	tion		Emission Bandwidth (MHz)			
Modulation Mode		Freq.	99% Bandwidth	26dB Bandwidth		
Modulation Mode	N _{TX}	(MHz)	Chain- Port 1	Chain- Port 1		
11a	1	5180	16.59	19.85		
11a	1	5200	17.39	27.25		
11a	1	5240	17.16	28.60		
HT20	1	5180	17.64	19.87		
HT20	1	5200	17.84	32.15		
HT20	1	5240	18.04	32.37		
HT40	1	5190	36.06	41.20		
HT40	1	5230	37.14	71.32		
VHT80	1	5210	75.16	80.32		
Result			Com	nplied		

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Condition			Emission Bandwidth (MHz)				
Modulation Mode	N _{TX}	Freq.	99% Bandwidth	6dB Bandwidth			
Modulation Mode	IVIX	(MHz)	Chain- Port 1	Chain- Port 1			
11a	1	5745	17.30	16.32			
11a	1	5785	20.56	16.33			
11a	1	5825	20.94	16.33			
HT20	1	5745	18.42	17.40			
HT20	1	5785	21.24	16.93			
HT20	1	5825	21.16	17.56			
HT40	1	5755	36.34	35.92			
HT40	1	5795	44.09	34.16			
VHT80	1	5775	75.80	76.32			
Limi	it		-	≥ 500 kHz			

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3.3 RF Output Power

3.3.1 RF Output Power Limit

	Maximum Conducted Output Power Limit	
UNI	I Devices	
\boxtimes	For the 5.15-5.25 GHz band:	
	Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If > 6 dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees \leq 125 [21dBm]	
	Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If C 6 dBi, then $P_{Out} = 30 - (G_{TX} - 6)$	કે _{TX} >
	Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.	1 W
	Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the least of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	sser
	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the less 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, $P_{Out} = 24 - (G_{TX} - 6)$.	
	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the least of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, $P_{Out} = 24 - (G_{TX} - 6)$.	
\boxtimes	For the 5.725-5.85 GHz band:	
	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not extra the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.	ceed
	$\hfill \square$ Point-to-point systems (P2P): the maximum conducted output power (P $_{\text{Out}}$) shall not exceed lesser of 1 W.	d the
	= maximum conducted output power in dBm, = the maximum transmitting antenna directional gain in dBi.	

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3.3.2 Measuring Instruments

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

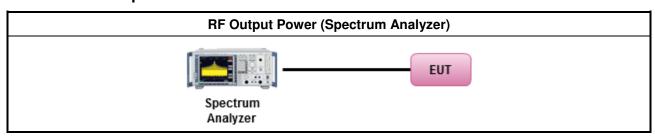
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3.3.3 Test Procedures

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

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3.3.4 Test Setup



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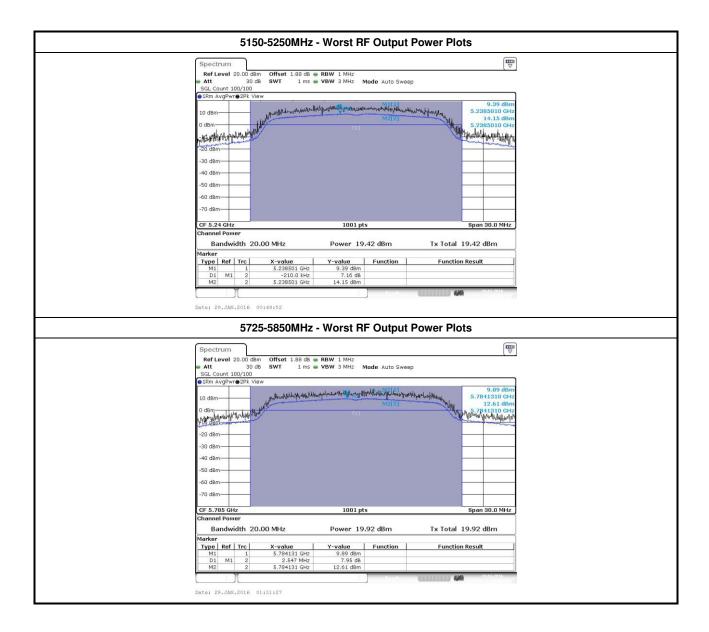
3.3.5 Test Result of Maximum Conducted Output Power

		Maxim	um Conducted Output Po	wer (5150-5250MHz bar	nd)		
Modulation Mode		Freq.	Output Po	Antenna	EIRP	Power	
	N _{TX}	(MHz)	Chain Port 1	Sum Chain	Gain (dBi)	power	Limit
11a	1	5180	15.76	15.76	4.49	20.25	24.00
11a	1	5200	19.36	19.36	4.49	23.85	24.00
11a	1	5240	19.42	19.42	4.49	23.91	24.00
HT20	1	5180	15.09	15.09	4.49	19.58	24.00
HT20	1	5200	19.26	19.26	4.49	23.75	24.00
HT20	1	5240	19.37	19.37	4.49	23.86	24.00
HT40	1	5190	12.18	12.18	4.49	16.67	24.00
HT40	1	5230	19.42	19.42	4.49	23.91	24.00
VHT20	1	5180	15.05	15.05	4.49	19.54	24.00
VHT20	1	5200	19.16	19.16	4.49	23.65	24.00
VHT20	1	5240	19.30	19.30	4.49	23.79	24.00
VHT40	1	5190	12.02	12.02	4.49	16.51	24.00
VHT40	1	5230	19.34	19.34	4.49	23.83	24.00
VHT80	1	5210	11.34	11.34	4.49	15.83	24.00
Resu	ılt			Complied			

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		Maxim	um Conducted Output Po	ower (5725-5850MHz bar	nd)	
		Freq.	Output Po	ower (dBm)	Antenna Gain (dBi)	
Modulation Mode	N _{TX}	(MHz)	Chain Port 1	Sum Chain		Power Limit
11a	1	5745	18.61	18.61	4.49	30.00
11a	1	5785	19.92	19.92	4.49	30.00
11a	1	5825	19.87	19.87	4.49	30.00
HT20	1	5745	19.07	19.07	4.49	30.00
HT20	1	5785	19.84	19.84	4.49	30.00
HT20	1	5825	19.76	19.76	4.49	30.00
HT40	1	5755	17.70	17.70	4.49	30.00
HT40	1	5795	19.53	19.53	4.49	30.00
VHT20	1	5745	19.04	19.04	4.49	30.00
VHT20	1	5785	19.74	19.74	4.49	30.00
VHT20	1	5825	19.69	19.69	4.49	30.00
VHT40	1	5755	17.68	17.68	4.49	30.00
VHT40	1	5795	19.49	19.49	4.49	30.00
VHT80	1	5775	16.35	16.35	4.49	30.00
Resu	ult			Complied		

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3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

		Peak Power Spectral Density Limit
UNI	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, PPSD= 11 – ($G_{TX} - 6$).
		the 5.47-5.725 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ($G_{TX} - 6$).
\boxtimes	For	the 5.725-5.85 GHz band:
	\boxtimes	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) \leq 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then PPSD= $30 - (G_{TX} - 6)$.
		Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
pow	er sh	peak power spectral density that he same method as used to determine the conducted output nall be used to determine the power spectral density. And power spectral density in dBm/MHz amaximum transmitting antenna directional gain in dBi.

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3.4.2 Measuring Instruments

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

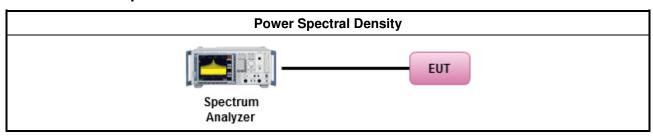
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3.4.3 Test Procedures

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

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3.4.4 Test Setup



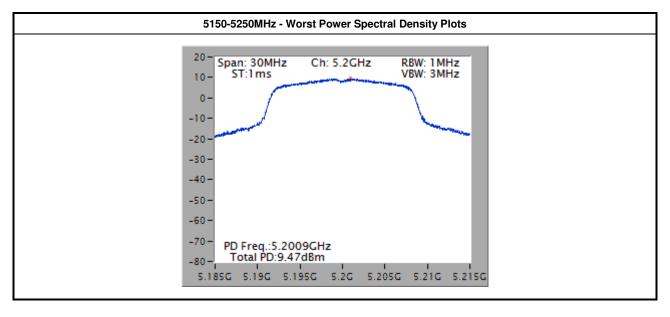
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3.4.5 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5150-5250MHz band)									
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain w/o Duty Factor	Peak Power Spectral Density	PSD-DG (dBi)	EIRP PSD	PSD Limit		
11a	1	5180	5.79	5.79	4.49	10.28	11.00		
11a	1	5200	9.47	9.47	4.49	13.96	11.00		
11a	1	5240	9.39	9.39	4.49	13.88	11.00		
HT20	1	5180	5.00	5.00	4.49	9.49	11.00		
HT20	1	5200	9.25	9.25	4.49	13.74	11.00		
HT20	1	5240	9.26	9.26	4.49	13.75	11.00		
HT40	1	5190	-0.85	-0.85	4.49	3.64	11.00		
HT40	1	5230	6.64	6.64	4.49	11.13	11.00		
VHT80	1	5210	-4.65	-4.65	4.49	-0.16	11.00		
Resu	Result			Complied					

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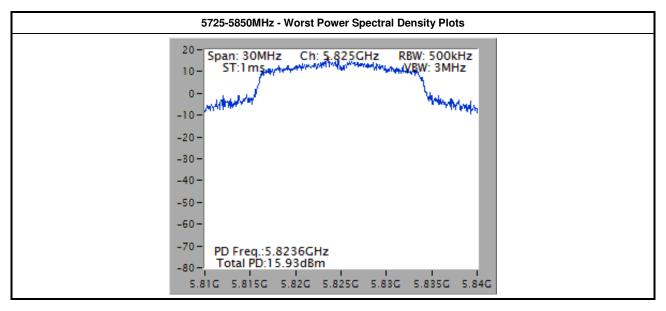
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Peak Power Spectral Density Result (5725-5850MHz band)								
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain w/o Duty Factor	Peak Power Spectral Density	PSD-DG (dBi)	EIRP PSD	PSD Limit	
11a	1	5745	14.20	14.20	4.49	18.69	30.00	
11a	1	5785	14.90	14.90	4.49	19.39	30.00	
11a	1	5825	15.06	15.06	4.49	19.55	30.00	
HT20	1	5745	14.31	14.31	4.49	18.80	30.00	
HT20	1	5785	15.55	15.55	4.49	20.04	30.00	
HT20	1	5825	15.93	15.93	4.49	20.42	30.00	
HT40	1	5755	10.03	10.03	4.49	14.52	30.00	
HT40	1	5795	11.62	11.62	4.49	16.11	30.00	
VHT80	1	5775	5.71	5.71	4.49	10.20	30.00	
Resu	ılt		Complied					

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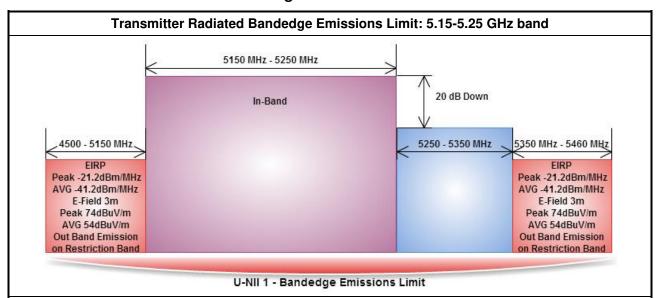


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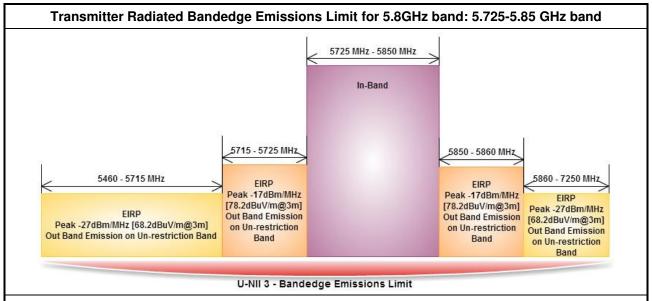
3.5 Transmitter Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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

3.5.2 Measuring Instruments

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

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3.5.3 Test Procedures

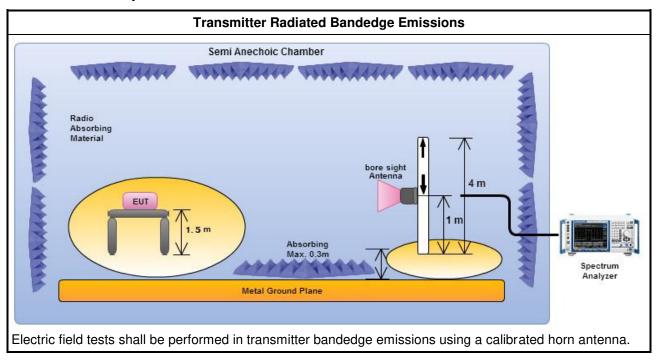
		Test Method
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
\boxtimes		er as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency and highest frequency channel within the allowed operating band.
	char will o	UT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency neel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel ower-band and highest frequency channel at higher-band in-band emissions will consist of two cent contiguous bands.)
		Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).
		Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).
	char	JT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency nnel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac 160)
		Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).
		Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.85 GHz band (higher-band).
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:
	\boxtimes	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	\boxtimes	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
		Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
		Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
		Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:
		Refer as FCC KDB 789033, 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 6.10 for band-edge testing.
		Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.
\boxtimes	For	radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.
	perfe equi extra dista mea	surements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement pment. When performing measurements at a distance other than that specified, the results shall be applied 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 is usurements). Measurements in the bandedge are typically made at a closer distance 3m, because 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	1	5180	3	5149.40	72.10	74	5149.60	52.92	54	Н
11a	1	5240	3	5104.20	59.04	74	5146.80	47.99	54	Н
HT20	1	5180	3	5149.20	70.98	74	5150.00	52.24	54	Н
HT20	1	5240	3	5139.00	59.16	74	5148.00	47.84	54	Н
HT40	1	5190	3	5149.94	68.96	74	5149.94	52.95	54	Н
HT40	1	5230	3	5148.60	64.90	74	5149.80	52.23	54	Н
VHT80	1	5210	3	5146.80	66.12	74	5149.80	52.77	54	Н

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Note	1. Measi	rement wor	st emissions	of receive	antenna	polarization.
INOLC	i. ivicast	ALCHICITE WOLL			antomia	polarization.

Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Pol.
11a	1	5745	3	5714.47	66.94	68.2	Н
11a	1	5745	3	5724.97	72.09	78.2	Н
11a	1	5825	3	5851.96	72.10	78.2	Н
11a	1	5825	3	5860.15	64.48	68.2	Н
HT20	1	5745	3	5714.68	64.75	68.2	Н
HT20	1	5745	3	5724.76	76.56	78.2	Н
HT20	1	5825	3	5850.28	73.27	78.2	Н
HT20	1	5825	3	5860.36	65.48	68.2	Н
HT40	1	5755	3	5714.48	67.15	68.2	Н
HT40	1	5755	3	5723.32	73.33	78.2	Н
HT40	1	5795	3	5851.00	69.85	78.2	Н
HT40	1	5795	3	5861.80	67.14	68.2	Н
VHT80	1	5775	3	5714.26	66.63	68.2	Н
VHT80	1	5775	3	5719.66	67.05	78.2	Н
VHT80	1	5775	3	5852.50	67.58	78.2	Н
VHT80	1	5775	3	5861.14	63.32	68.2	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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3.6.3 Test Procedures

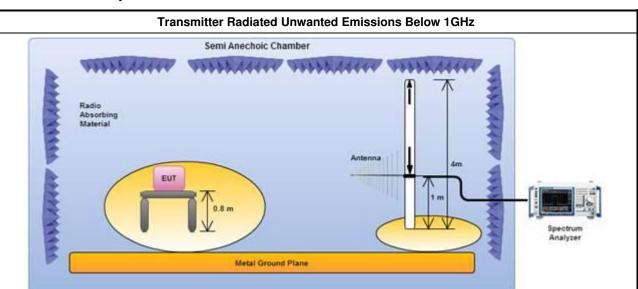
		Test Method									
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).										
\boxtimes	The a	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].									
	For the	he transmitter unwanted emissions shall be measured using following options below:									
	\boxtimes	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.									
	\boxtimes	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.									
		Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).									
		Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).									
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.									
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.									
		Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.									
		Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.									
	For r	adiated measurement.									
	\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.									
	\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.									
		Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 3m.									
	The a	any unwanted emissions level shall not exceed the fundamental emission level.									
\boxtimes		mplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.									

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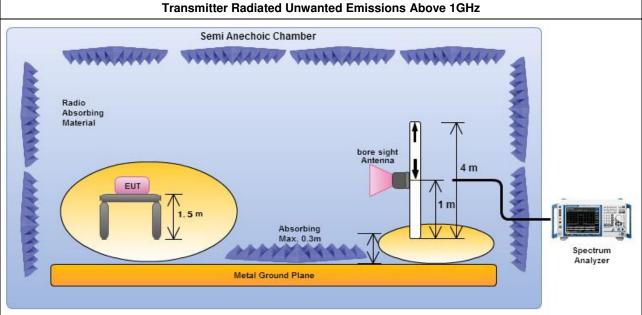


3.6.4 Test Setup



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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.



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.

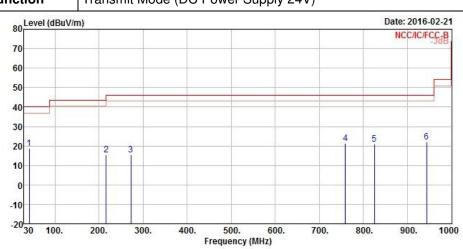
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Transmitter Radiated Unwanted Emissions (Below 1GHz)

3.6.6

Transmitter Radiated Unwanted Emissions (Below 1GHz) **Operating Mode Polarization Operating Function** Transmit Mode (DC Power Supply 24V)

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	Freq	Level	Over Limit			Antenna Factor		10.00	Remark
225	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	÷
1	41.64	18.91	-21.09	40.00	37.68	18.02	0.38	37.17	Peak
1 2	216.24	15.43	-30.57	46.00	35.61	15.22	0.82	36.22	Peak
3	272.50	15.24	-30.76	46.00	32.14	18.35	0.92	36.17	Peak
4	759.44	21.18	-24.82	46.00	29.92	26.83	1.62	37.19	Peak
5	825.40	20.85	-25.15	46.00	28.82	27.61	1.70	37.28	Peak
6	943.74	22.21	-23.79	46.00	28.11	29.48	1.84	37.22	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.)

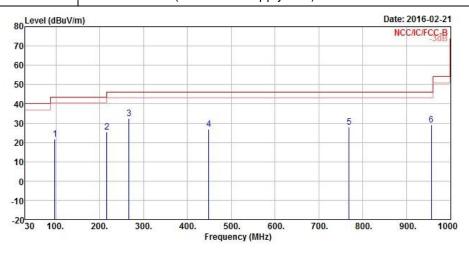
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

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

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FCC Test Report No.: FR611103AN

Transmitter Radiated Unwanted Emissions (Below 1GHz) Operating Mode 2 Polarization H Operating Function Transmit Mode (DC Power Supply 24V)



	Freq	Level	Over Limit	Limit Line		ntenna Factor		A STATE OF THE PARTY OF THE PAR	Remark
8	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	V.
1	97.90	21.67	-21.83	43.50	42.75	15.07	0.56	36.71	Peak
2	216.24	25.23	-20.77	46.00	45.41	15.22	0.82	36.22	Peak
3	266.68	32.35	-13.65	46.00	49.05	18.56	0.91	36.17	Peak
4	449.04	26.86	-19.14	46.00	39.99	22.31	1.20	36.64	Peak
5	769.14	27.99	-18.01	46.00	36.66	26.91	1.63	37.21	Peak
6	956.35	29.20	-16.80	46.00	34.87	29.67	1.85	37.19	Peak

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

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

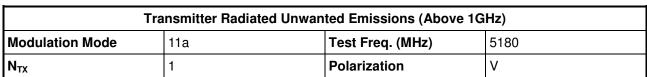
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

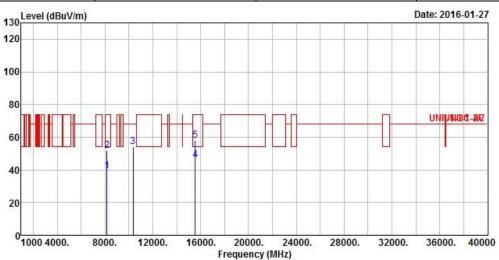
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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

Report No.: FR611103AN





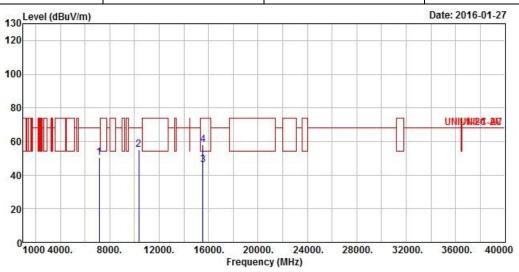
	Freq	Level		Limit Line				A STATE OF THE PARTY OF THE PAR	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	7
1	8152.00	39.35	-14.65	54.00	30.62	36.79	8.07	36.13	Average
2	8152.00	51.71	-22.29	74.00	42.98	36.79	8.07	36.13	Peak
3	10360.00	54.22	-13.98	68.20	43.60	37.42	9.41	36.21	Peak
4	15540.00	46.21	-7.79	54.00	31.95	38.32	11.54	35.60	Average
5	15540.00	58.27	-15.73	74.00	44.01	38.32	11.54	35.60	Peak

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

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

Report No.: FR611103AN



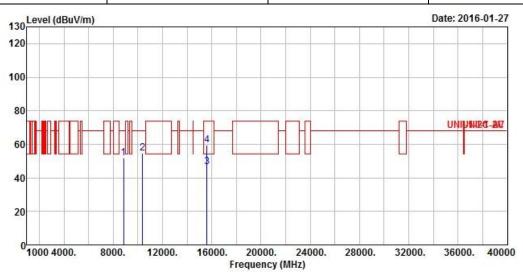
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7145.00	50.38	-17.82	68.20	42.62	36.19	7.55	35.98	Peak
2	10360.00	54.99	-13.21	68.20	44.37	37.42	9.41	36.21	Peak
3	15540.00	45.89	-8.11	54.00	31.63	38.32	11.54	35.60	Average
4	15540.00	58.15	-15.85	74.00	43.89	38.32	11.54	35.60	Peak

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

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

Report No.: FR611103AN



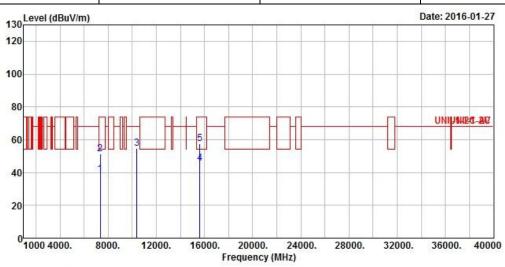
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8862.00	51.81	-16.39	68.20	42.62	37.07	8.30	36.18	Peak
2	10400.00	54.55	-13.65	68.20	43.85	37.44	9.44	36.18	Peak
3	15600.00	46.70	-7.30	54.00	32.52	38.36	11.50	35.68	Average
4	15600.00	59.50	-14.50	74.00	45.32	38.36	11.50	35.68	Peak

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

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

Report No.: FR611103AN

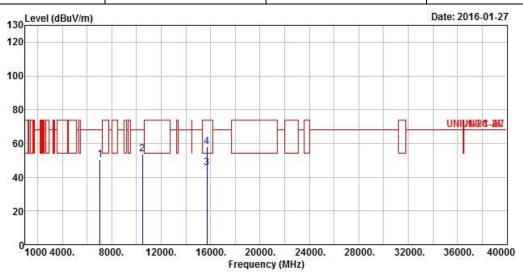


	Freq	Level	Over Limit	Limit Line		Antenna Factor			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	N.
1	7362.00	39.04	-14.96	54.00	30.63	36.81	7.61	36.01	Average
2	7362.00	51.27	-22.73	74.00	42.86	36.81	7.61	36.01	Peak
3	10400.00	54.55	-13.65	68.20	43.85	37.44	9.44	36.18	Peak
4	15600.00	45.38	-8.62	54.00	31.20	38.36	11.50	35.68	Average
5	15600.00	57.80	-16.20	74.00	43.62	38.36	11.50	35.68	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)	5240			
N _{TX}	1	Polarization	V			

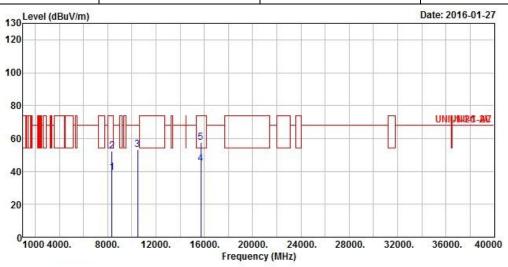


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	N.
1	7052.00	50.49	-17.71	68.20	43.01	35.94	7.50	35.96	Peak
2	10480.00	53.83	-14.37	68.20	42.99	37.49	9.48	36.13	Peak
3	15720.00	45.66	-8.34	54.00	31.62	38.43	11.40	35.79	Average
4	15720.00	58.02	-15.98	74.00	43.98	38.43	11.40	35.79	Peak

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

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

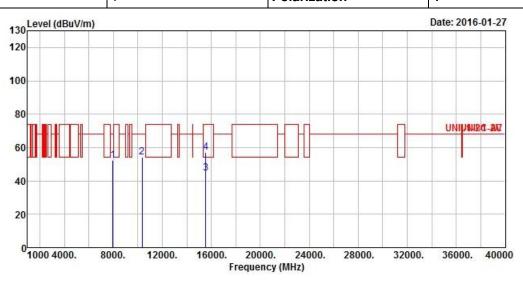


			Over	Limit	ReadA	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	9.
1	8362.00	39.50	-14.50	54.00	30.53	36.92	8.20	36.15	Average
2	8362.00	52.49	-21.51	74.00	43.52	36.92	8.20	36.15	Peak
3	10480.00	53.47	-14.73	68.20	42.63	37.49	9.48	36.13	Peak
4	15720.00	44.66	-9.34	54.00	30.62	38.43	11.40	35.79	Average
5	15720.00	57.65	-16.35	74.00	43.61	38.43	11.40	35.79	Peak

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

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT20	Test Freq. (MHz)	5180						
N _{TY}	1	Polarization	V						



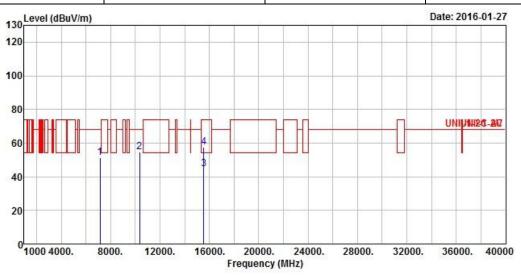
	Freq Level			Limit Line				A STATE OF THE PARTY OF THE PAR	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	7985.00	52.20	-16.00	68.20	43.62	36.72	7.98	36.12	Peak
2	10360.00	54.24	-13.96	68.20	43.62	37.42	9.41	36.21	Peak
3	15540.00	44.67	-9.33	54.00	30.41	38.32	11.54	35.60	Average
4	15540.00	57.25	-16.75	74.00	42.99	38.32	11.54	35.60	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)	5180				
N_{TX}	1	Polarization	Н				

Report No.: FR611103AN



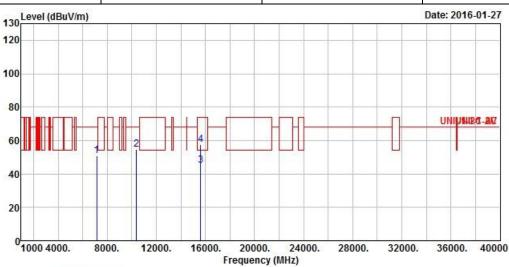
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	\$
1	7141.00	51.26	-16.94	68.20	43.52	36.19	7.53	35.98	Peak
2	10360.00	54.63	-13.57	68.20	44.01	37.42	9.41	36.21	Peak
3	15540.00	44.78	-9.22	54.00	30.52	38.32	11.54	35.60	Average
4	15540.00	57.49	-16.51	74.00	43.23	38.32	11.54	35.60	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}	N _{TX} 1 Polarization						

Report No.: FR611103AN



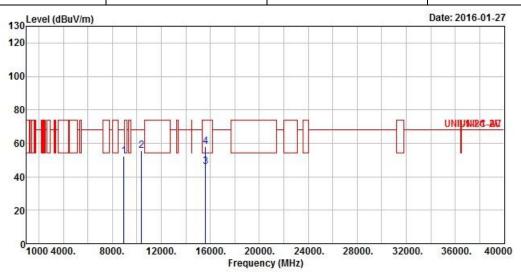
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7152.00	50.75	-17.45	68.20	42.95	36.23	7.55	35.98	Peak
2	10400.00	54.72	-13.48	68.20	44.02	37.44	9.44	36.18	Peak
3	15600.00	45.17	-8.83	54.00	30.99	38.36	11.50	35.68	Average
4	15600.00	57.70	-16.30	74.00	43.52	38.36	11.50	35.68	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}	1	Polarization	Н				

Report No.: FR611103AN



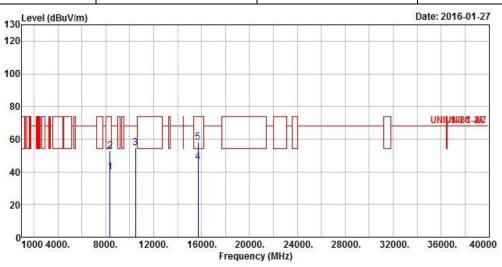
	Freq	Level		Limit Line					Remark
(2)	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8952.00	52.16	-16.04	68.20	42.95	37.09	8.31	36.19	Peak
2	10400.00	55.71	-12.49	68.20	45.01	37.44	9.44	36.18	Peak
3	15600.00	46.20	-7.80	54.00	32.02	38.36	11.50	35.68	Average
4	15600.00	58.17	-15.83	74.00	43.99	38.36	11.50	35.68	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}	N _{TX} 1 Polarization						

Report No.: FR611103AN



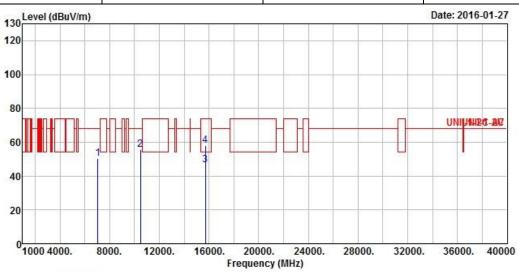
			0ver	Limit	ReadA	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8365.00	39.60	-14.40	54.00	30.63	36.92	8.20	36.15	Average
2	8365.00	52.60	-21.40	74.00	43.63	36.92	8.20	36.15	Peak
3	10480.00	54.86	-13.34	68.20	44.02	37.49	9.48	36.13	Peak
4	15720.00	46.09	-7.91	54.00	32.05	38.43	11.40	35.79	Average
5	15720.00	58.07	-15.93	74.00	44.03	38.43	11.40	35.79	Peak

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

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

Report No.: FR611103AN



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	——dB	0
1	7052.00	50.48	-17.72	68.20	43.00	35.94	7.50	35.96	Peak
2	10480.00	55.87	-12.33	68.20	45.03	37.49	9.48	36.13	Peak
3	15720.00	46.40	-7.60	54.00	32.36	38.43	11.40	35.79	Average
4	15720.00	58.21	-15.79	74.00	44.17	38.43	11.40	35.79	Peak

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

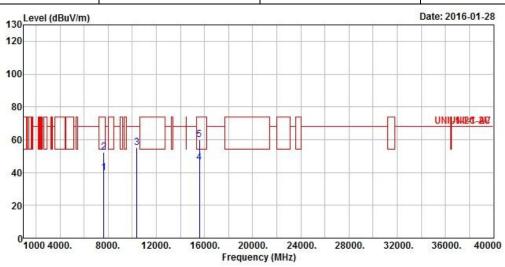
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5190

N_{TX} 1 Polarization V

Report No.: FR611103AN

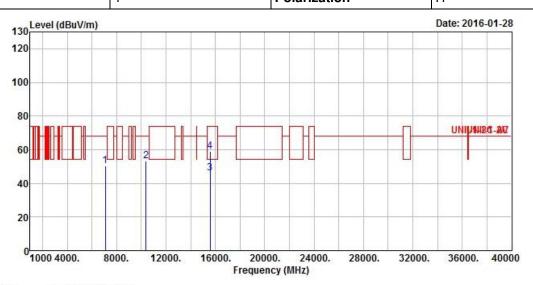


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	11. The state of t
1	7652.00	39.61	-14.39	54.00	30.85	37.05	7.77	36.06	Average
2	7652.00	52.40	-21.60	74.00	43.64	37.05	7.77	36.06	Peak
3	10380.00	55.19	-13.01	68.20	44.51	37.43	9.44	36.19	Peak
4	15570.00	46.20	-7.80	54.00	31.99	38.34	11.50	35.63	Average
5	15570.00	59.87	-14.13	74.00	45.66	38.34	11.50	35.63	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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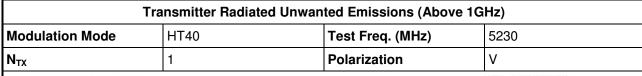
1	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	5190					
N _{TV}	1	Polarization	Н					

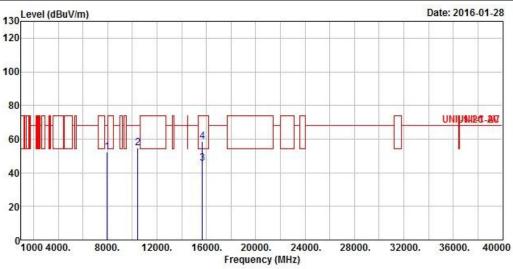


	Freq	Over Freq Level Limit	Limit ReadAn Line Level F		The state of the s				
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ii .
1	7085.00	50.55	-17.65	68.20	42.96	36.04	7.52	35.97	Peak
2	10380.00	53.48	-14.72	68.20	42.80	37.43	9.44	36.19	Peak
3	15570.00	45.85	-8.15	54.00	31.64	38.34	11.50	35.63	Average
4	15570.00	58.86	-15.14	74.00	44.65	38.34	11.50	35.63	Peak

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

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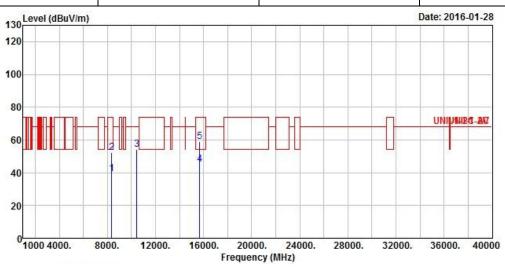


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7981.00	52.20	-16.00	68.20	43.62	36.72	7.98	36.12	Peak
2	10460.00	54.83	-13.37	68.20	44.02	37.47	9.48	36.14	Peak
3	15690.00	45.79	-8.21	54.00	31.74	38.41	11.40	35.76	Average
4	15690.00	58.73	-15.27	74.00	44.68	38.41	11.40	35.76	Peak

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

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



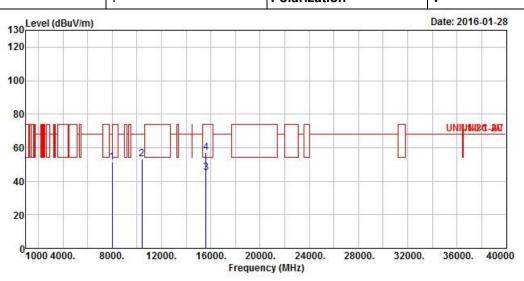
	Freq	Freq Level			Limit ReadAn Line Level F				
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>
1	8362.00	39.50	-14.50	54.00	30.53	36.92	8.20	36.15	Average
2	8362.00	52.39	-21.61	74.00	43.42	36.92	8.20	36.15	Peak
3	10460.00	54.21	-13.99	68.20	43.40	37.47	9.48	36.14	Peak
4	15690.00	45.04	-8.96	54.00	30.99	38.41	11.40	35.76	Average
5	15690.00	58.80	-15.20	74.00	44.75	38.41	11.40	35.76	Peak

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT80	Test Freq. (MHz)	5210					
N _{TV}	1	Polarization	V					

Report No.: FR611103AN

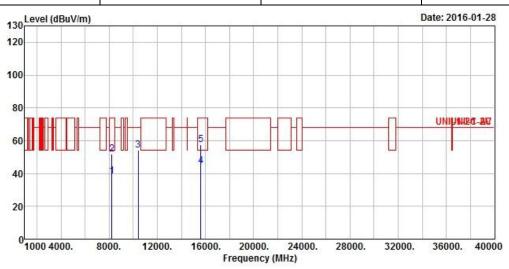


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	\$
1	7995.00	51.20	-17.00	68.20	42.62	36.72	7.98	36.12	Peak
2	10420.00	53.44	-14.76	68.20	42.71	37.45	9.46	36.18	Peak
3	15630.00	44.99	-9.01	54.00	30.85	38.38	11.47	35.71	Average
4	15630.00	57.03	-16.97	74.00	42.89	38.38	11.47	35.71	Peak

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	VHT80	Test Freq. (MHz)	5210					
N _{TX}	1	Polarization	Н					



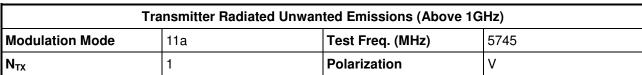
	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	il.
1	8241.00	38.47	-15.53	54.00	29.63	36.84	8.14	36.14	Average
2	8241.00	52.04	-21.96	74.00	43.20	36.84	8.14	36.14	Peak
3	10420.00	54.25	-13.95	68.20	43.52	37.45	9.46	36.18	Peak
4	15630.00	44.76	-9.24	54.00	30.62	38.38	11.47	35.71	Average
5	15630.00	57.75	-16.25	74.00	43.61	38.38	11.47	35.71	Peak

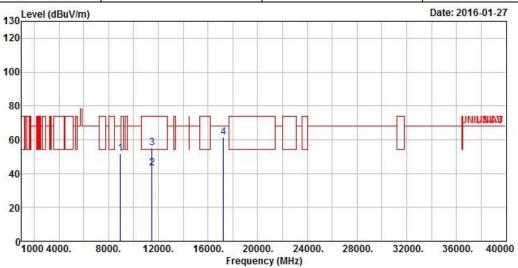
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted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

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

Report No.: FR611103AN



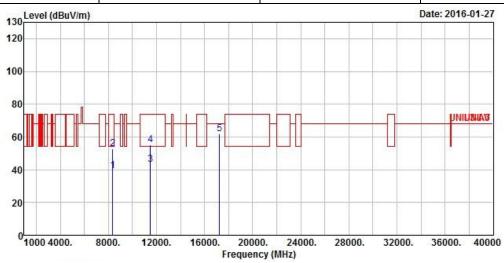


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	S <u>-</u>
1	8945.00	51.86	-16.34	68.20	42.65	37.09	8.31	36.19	Peak
2	11490.00	43.15	-10.85	54.00	30.93	38.38	9.74	35.90	Average
3	11490.00	55.01	-18.99	74.00	42.79	38.38	9.74	35.90	Peak
4	17235.00	61.25	-6.95	68.20	43.50	41.10	11.93	35.28	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) 5745							
N _{TX}	1	Polarization	Н				

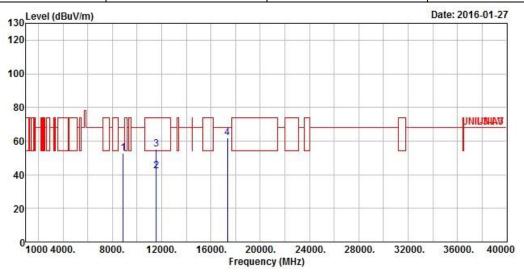


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>
1	8362.00	39.50	-14.50	54.00	30.53	36.92	8.20	36.15	Average
2	8362.00	52.66	-21.34	74.00	43.69	36.92	8.20	36.15	Peak
3	11490.00	43.01	-10.99	54.00	30.79	38.38	9.74	35.90	Average
4	11490.00	55.31	-18.69	74.00	43.09	38.38	9.74	35.90	Peak
5	17235.00	61.85	-6.35	68.20	44.10	41.10	11.93	35.28	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}	1	Polarization	V				



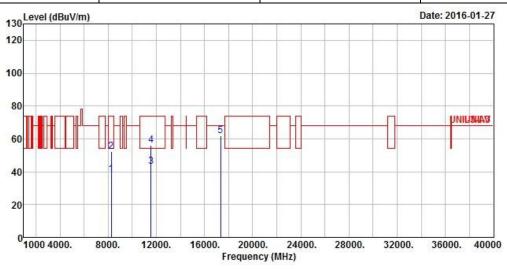
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	3.
1	8896.00	52.81	-15.39	68.20	43.61	37.08	8.30	36.18	Peak
2	11570.00	42.38	-11.62	54.00	29.99	38.52	9.79	35.92	Average
3	11570.00	55.37	-18.63	74.00	42.98	38.52	9.79	35.92	Peak
4	17355.00	61.70	-6.50	68.20	43.61	41.45	11.92	35.28	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}	1	Polarization	Н					

Report No.: FR611103AN

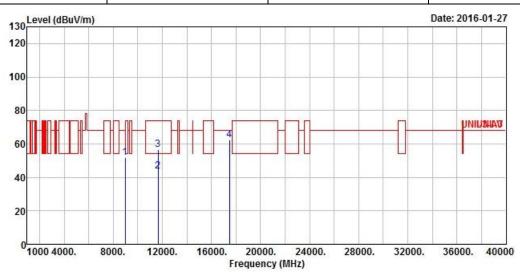


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8265.00	38.47	-15.53	54.00	29.61	36.86	8.14	36.14	Average
2	8265.00	52.50	-21.50	74.00	43.64	36.86	8.14	36.14	Peak
3	11570.00	43.04	-10.96	54.00	30.65	38.52	9.79	35.92	Average
4	11570.00	56.28	-17.72	74.00	43.89	38.52	9.79	35.92	Peak
5	17355.00	61.73	-6.47	68.20	43.64	41.45	11.92	35.28	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)	5825				
N _{TX}	1	Polarization	V				

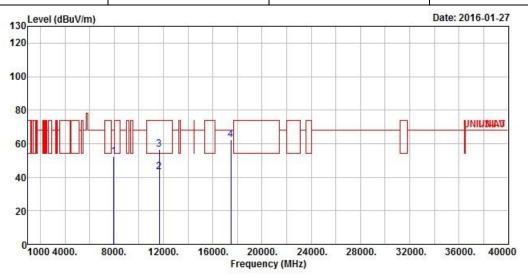


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	7
1	8974.00	51.83	-16.37	68.20	42.62	37.09	8.31	36.19	Peak
2	11650.00	43.44	-10.56	54.00	30.89	38.65	9.84	35.94	Average
3	11650.00	56.67	-17.33	74.00	44.12	38.65	9.84	35.94	Peak
4	17475.00	62.30	-5.90	68.20	43.89	41.80	11.90	35.29	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) 5825							
N _{TX}	1	Polarization	Н				



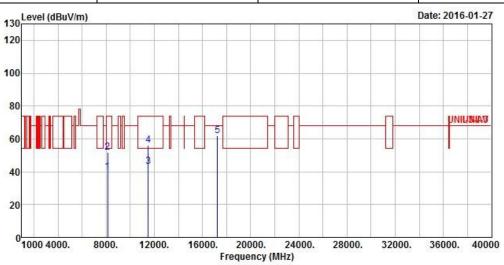
Freq	Level							Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
7963.00	52.22	-15.98	68.20	43.62	36.73	7.98	36.11	Peak
11650.00	43.07	-10.93	54.00	30.52	38.65	9.84	35.94	Average
11650.00	56.42	-17.58	74.00	43.87	38.65	9.84	35.94	Peak
17475.00	62.26	-5.94	68.20	43.85	41.80	11.90	35.29	Peak
	MHz 7963.00 11650.00 11650.00	MHz dBuV/m 7963.00 52.22 11650.00 43.07 11650.00 56.42	Freq Level Limit MHz dBuV/m dB 7963.00 52.22 -15.98 11650.00 43.07 -10.93 11650.00 56.42 -17.58	Freq Level Limit Line MHz dBuV/m dB dBuV/m 7963.00 52.22 -15.98 68.20 11650.00 43.07 -10.93 54.00 11650.00 56.42 -17.58 74.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 7963.00 52.22 -15.98 68.20 43.62 11650.00 43.07 -10.93 54.00 30.52 11650.00 56.42 -17.58 74.00 43.87	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 7963.00 52.22 -15.98 68.20 43.62 36.73 11650.00 43.07 -10.93 54.00 30.52 38.65 11650.00 56.42 -17.58 74.00 43.87 38.65	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 7963.00 52.22 -15.98 68.20 43.62 36.73 7.98 11650.00 43.07 -10.93 54.00 30.52 38.65 9.84 11650.00 56.42 -17.58 74.00 43.87 38.65 9.84	Over Limit ReadAntenna Cable Preamp Freq Level Limit Lime Line Level Factor Cable Preamp Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 7963.00 52.22 -15.98 68.20 43.62 36.73 7.98 36.11 36.11 11650.00 43.07 -10.93 54.00 30.52 38.65 9.84 35.94 11650.00 56.42 -17.58 74.00 43.87 38.65 9.84 35.94 17475.00 62.26 -5.94 68.20 43.85 41.80 11.90 35.29

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

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode HT20 Test Freq. (MHz) 5745								
N _{TX}	1	Polarization	V					

Report No.: FR611103AN

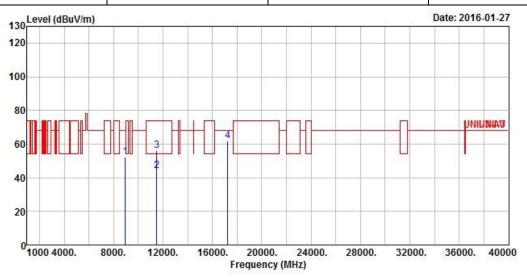


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8145.00	39.70	-14.30	54.00	30.98	36.78	8.07	36.13	Average
2	8145.00	51.70	-22.30	74.00	42.98	36.78	8.07	36.13	Peak
3	11490.00	43.06	-10.94	54.00	30.84	38.38	9.74	35.90	Average
4	11490.00	56.24	-17.76	74.00	44.02	38.38	9.74	35.90	Peak
5	17235.00	61.77	-6.43	68.20	44.02	41.10	11.93	35.28	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 ModeHT20Test Freq. (MHz)5745								
N _{TX}	1	Polarization	Н					



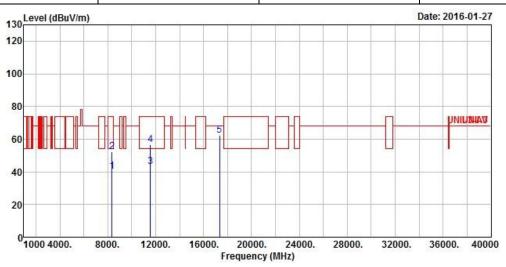
	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8941.00	52.17	-16.03	68.20	42.95	37.09	8.31	36.18	Peak
2	11490.00	44.25	-9.75	54.00	32.03	38.38	9.74	35.90	Average
3	11490.00	56.30	-17.70	74.00	44.08	38.38	9.74	35.90	Peak
4	17235.00	61.99	-6.21	68.20	44.24	41.10	11.93	35.28	Peak

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

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

Report No.: FR611103AN

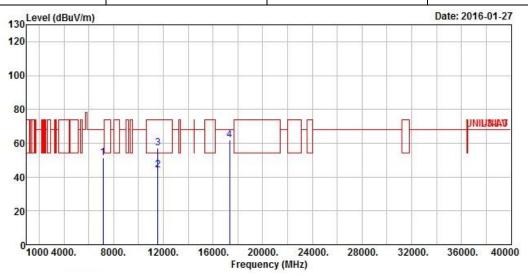


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8362.00	40.18	-13.82	54.00	31.21	36.92	8.20	36.15	Average
2	8362.00	52.23	-21.77	74.00	43.26	36.92	8.20	36.15	Peak
3	11570.00	43.38	-10.62	54.00	30.99	38.52	9.79	35.92	Average
4	11570.00	56.74	-17.26	74.00	44.35	38.52	9.79	35.92	Peak
5	17355.00	62.54	-5.66	68.20	44.45	41.45	11.92	35.28	Peak

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

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



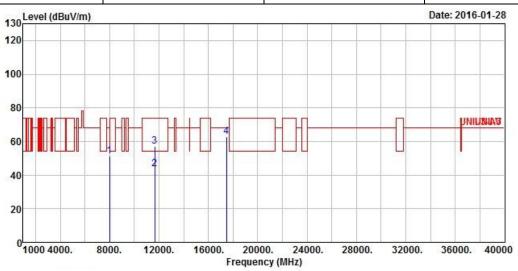
			Over	Limit	ReadA	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7145.00	51.50	-16.70	68.20	43.74	36.19	7.55	35.98	Peak
2	11570.00	44.24	-9.76	54.00	31.85	38.52	9.79	35.92	Average
3	11570.00	57.14	-16.86	74.00	44.75	38.52	9.79	35.92	Peak
4	17355.00	62.07	-6.13	68.20	43.98	41.45	11.92	35.28	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)	5825				
N _{TX}	1	Polarization	V				

Report No.: FR611103AN

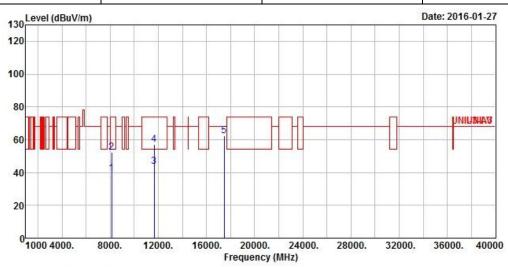


	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·
1	7999.00	51.55	-16.65	68.20	42.99	36.70	7.98	36.12	Peak
2	11650.00	43.53	-10.47	54.00	30.98	38.65	9.84	35.94	Average
3	11650.00	57.17	-16.83	74.00	44.62	38.65	9.84	35.94	Peak
4	17475.00	63.03	-5.17	68.20	44.62	41.80	11.90	35.29	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)	5825				
N _{TX}	1	Polarization	Н				



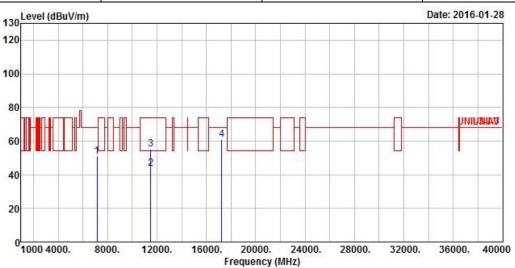
	Freq	Level	Over Limit	127 25 100 200 200 200		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8145.00	39.34	-14.66	54.00	30.62	36.78	8.07	36.13	Average
2	8145.00	52.34	-21.66	74.00	43.62	36.78	8.07	36.13	Peak
3	11650.00	43.54	-10.46	54.00	30.99	38.65	9.84	35.94	Average
4	11650.00	56.87	-17.13	74.00	44.32	38.65	9.84	35.94	Peak
5	17475.00	62.44	-5.76	68.20	44.03	41.80	11.90	35.29	Peak

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

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

Report No.: FR611103AN

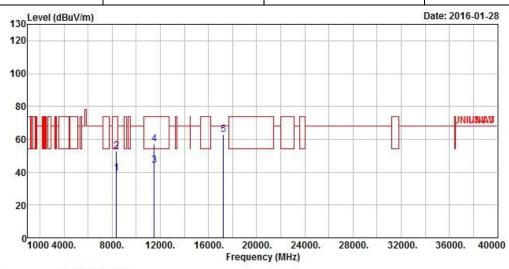


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	9
1	7145.00	50.74	-17.46	68.20	42.98	36.19	7.55	35.98	Peak
2	11510.00	43.43	-10.57	54.00	31.20	38.40	9.74	35.91	Average
3	11510.00	55.13	-18.87	74.00	42.90	38.40	9.74	35.91	Peak
4	17265.00	60.74	-7.46	68.20	42.90	41.20	11.92	35.28	Peak

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT40	Test Freq. (MHz)	5755					
N _{TX}	1	Polarization	Н					



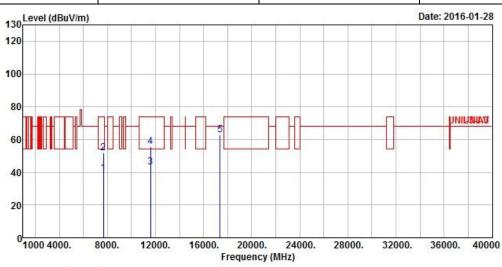
			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	:
1	8362.00	39.50	-14.50	54.00	30.53	36.92	8.20	36.15	Average
2	8362.00	52.59	-21.41	74.00	43.62	36.92	8.20	36.15	Peak
3	11510.00	44.08	-9.92	54.00	31.85	38.40	9.74	35.91	Average
4	11510.00	57.08	-16.92	74.00	44.85	38.40	9.74	35.91	Peak
5	17265.00	62.79	-5.41	68.20	44.95	41.20	11.92	35.28	Peak

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

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

Report No.: FR611103AN

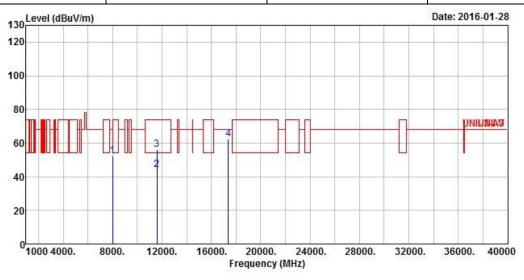


			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7685.00	39.25	-14.75	54.00	30.52	37.02	7.77	36.06	Average
2	7685.00	51.87	-22.13	74.00	43.14	37.02	7.77	36.06	Peak
3	11590.00	42.97	-11.03	54.00	30.51	38.56	9.82	35.92	Average
4	11590.00	55.86	-18.14	74.00	43.40	38.56	9.82	35.92	Peak
5	17385.00	62.68	-5.52	68.20	44.51	41.55	11.91	35.29	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} 1 Polarization H

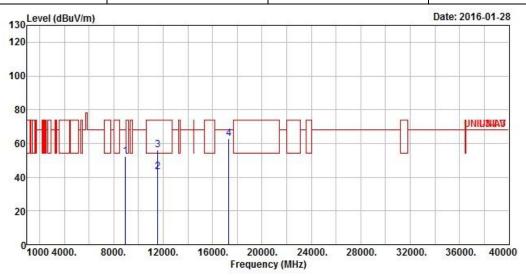


	Freq	Level	Over Limit			Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8001.00	52.09	-16.11	68.20	43.51	36.70	8.00	36.12	Peak
2	11590.00	43.97	-10.03	54.00	31.51	38.56	9.82	35.92	Average
3	11590.00	56.06	-17.94	74.00	43.60	38.56	9.82	35.92	Peak
4	17385.00	62.15	-6.05	68.20	43.98	41.55	11.91	35.29	Peak

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

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

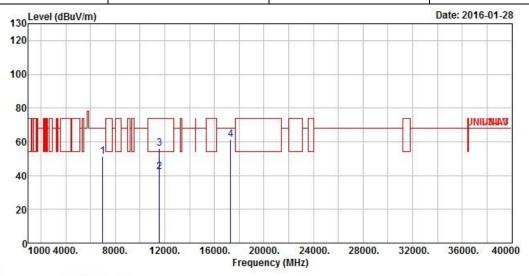


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8941.00	52.41	-15.79	68.20	43.19	37.09	8.31	36.18	Peak
2	11550.00	43.22	-10.78	54.00	30.86	38.49	9.79	35.92	Average
3	11550.00	55.99	-18.01	74.00	43.63	38.49	9.79	35.92	Peak
4	17325.00	62.60	-5.60	68.20	44.61	41.35	11.92	35.28	Peak

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

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



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	E
1	7001.00	51.19	-17.01	68.20	43.85	35.80	7.49	35.95	Peak
2	11550.00	42.35	-11.65	54.00	29.99	38.49	9.79	35.92	Average
3	11550.00	55.99	-18.01	74.00	43.63	38.49	9.79	35.92	Peak
4	17325.00	61.60	-6.60	68.20	43.61	41.35	11.92	35.28	Peak

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

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3.7 Frequency Stability

3.7.1 Frequency Stability Limit

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

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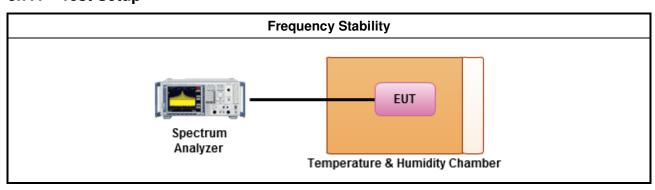
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

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

3.7.4 Test Setup



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3.7.5 Test Result of Frequency Stability

Test Voltage	⊠ Vnom (12 V)	∨min (10.2 V)
Test Climatic	☐ Tnom (20°C)	⊠ Tmin (-20°C)

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	Frequency Stability Result									
Mod	le	Frequency Stability (ppm)								
Condition	Freq. (MHz)	0 min	2 min	5 min	10 min					
T _{20°C} Vmax	5200	-1.5019	-1.5865	-1.5865	-1.6692					
T _{20°C} Vmin	5200	-1.5019	-1.5019	-1.5865	-1.6692					
T _{50°C} Vnom	5200	-1.6692	-1.5865	-1.5865	-1.5865					
T _{40°C} Vnom	5200	-1.6692	-1.6692	-1.6692	-1.6692					
T _{30°C} Vnom	5200	-1.6692	-1.6692	-1.6692	-1.6692					
T _{20°C} Vnom	5200	-1.5019	-1.5865	-1.5865	-1.6692					
T _{10°C} Vnom	5200	-1.5019	-1.5019	-1.5019	-1.5019					
T _{0°C} Vnom	5200	-1.4192	-1.5019	-1.5019	-1.5019					
T _{-10°C} Vnom	5200	-1.4192	-1.4192	-1.4192	-1.4192					
T _{-20°C} Vnom 5200		-1.4192	-1.3365	-1.3365	-1.3365					
Limit (opm)	±20								
Resi	ult	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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Test Voltage	⊠ Vnom (24 V)	
Test Climatic	☐ Tnom (20°C)	

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	Frequency Stability Result										
Мо	de	Frequency Stability (ppm)									
Condition	Freq. (MHz)	0 min	2 min	5 min	10 min						
T _{20°C} Vmax	5200	-1.5019	-1.5865	-1.5865	-1.6692						
T _{20°C} Vmin	5200	-1.5019	-1.5019	-1.5865	-1.6692						
T _{50°C} Vnom	5200	-1.6692	-1.5865	-1.5865	-1.5865						
T _{40°C} Vnom	5200	-1.6692	-1.6692	-1.6692	-1.6692						
T _{30°C} Vnom	5200	-1.6692	-1.6692	-1.6692	-1.6692						
T _{20°C} Vnom	5200	-1.5019	-1.5865	-1.5865	-1.6692						
T _{10°C} Vnom	5200	-1.5019	-1.5019	-1.5019	-1.5019						
T _{0°C} Vnom	5200	-1.4192	-1.5019	-1.5019	-1.5019						
T _{-10°C} Vnom	5200	-1.4192	-1.4192	-1.4192	-1.4192						
T _{-20°C} Vnom	5200	-1.4192	-1.3365	-1.3365	-1.3365						
Limit ((ppm)	±20									
Res	sult		Com	plied							

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

< AC Conduction>

1 Ao Conductions							
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date	
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Apr. 15. 2015	Apr. 14, 2016	
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 26, 2016	Jan. 25, 2017	
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	Oct. 30, 2015	Oct. 29, 2016	
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR	

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Note: Calibration Interval of instruments listed above is one year. NCR: No Calibration Request.

<RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100℃	Apr. 07, 2015	Apr. 06, 2016
Spectrum Analyzer	R&S	FSV 40	101500	9KHz~40GHz	May 06, 2015	May 05, 2016
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jul. 28, 2015	Jul. 27, 2016

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

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<Radiation>

Tradiation >							
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date	
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz 3m	Jul. 01, 2015	Jun. 30, 2016	
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz 3m	Jul. 01, 2015	Jun. 30, 2016	
Amplifier	EMC	EMC9135	980209	9kHz ~ 1.0GHz	Dec 25, 2015	Dec. 24, 2016	
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	Apr. 09, 2015	Apr. 08, 2016	
Spectrum	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	Jul. 15, 2015	Jul. 14, 2016	
Bilog Antenna	TESEQ	CBL 6112D	35418	30MHz ~ 1GHz	Mar. 30, 2015	Mar. 29, 2016	
Horn Antenna	AARONIA AG	POWERLOG 70180	05192	1GHz ~ 18GHz	Jan. 08, 2016	Jan. 07, 2017	
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	Jan. 04, 2016	Jan. 03, 2017	
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Jul. 23, 2015	Jul. 22, 2016	
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	Jul. 23, 2015	Jul. 22, 2016	

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Amplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02.2015	Jun. 01, 2017
Loop Antenna	ROHDE&SCHWARZ	HFH2-Z2	100330	9 kHz~30 MHz	Nov. 10, 2014	Nov. 09, 2016

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

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