

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 15.247 Frequency : 2400 MHz – 2483.5 MHz

Equipment Class : DTS

Applicant : AMobile Intelligent Corp

18F. -1, No.150, Jian 1st Rd., Zhong He Dist.,

New Taipei City 235, Taiwan

Manufacturer : AMobile Intelligent Corp

18F. -1, No.150, Jian 1st Rd., Zhong He Dist.,

New Taipei City 235, Taiwan

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.

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

Testing Laboratory 1190

Report No.: FR611103AC

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Summary of Test Result

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		Conforma	nce Test Specifications		
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 16.140MHz 32.14 (Margin -27.86dB) – QP 26.64 (Margin -23.36dB) – AV	FCC 15.207	Complied
3.2	15.247(a)	6dB Bandwidth	6dB Bandwidth Unit [MHz] 20M:17.59/ 40M:36.08	≥500kHz	Complied
3.3	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Power [dBm]: 26.19	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/100kHz]: - 7.39	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Transmitter Radiated Bandedge Emissions	Non-Restricted Bands: 2399.60 MHz: 29.24 dB Restricted Bands [dBuV/m at 3m]: 2389.46 MHz 69.79 (Margin 4.21 dB) - PK 52.73 (Margin 1.27 dB) - AV	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.6	15.247(d)	Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 4874.00MHz 52.95 (Margin 1.05 dB) - AV 55.40 (Margin 18.60 dB) - PK	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied

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Revision History

Report No.: FR611103AC

Report No.	Version	Description	Issued Date
FR611103AC	Rev. 02	Initial issue of report	Feb. 22, 2016

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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information							
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)		
2400-2483.5	b	2412-2462	1-11 [11]	1	22.57		
2400-2483.5	g	2412-2462	1-11 [11]	1	26.19		
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	26.07		
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	22.20		

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Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.

Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Information

	Antenna Category					
	Integral	antenna (antenna permanently attached)				
	☐ Tem	nporary RF connector provided				
	Tra mea	temporary RF connector provided nsmit chains bypass antenna and soldered temporary RF connector provided for connected asurement. In case of conducted measurements the transmitter shall be connected to the asuring equipment via a suitable attenuator and correct for all losses in the RF path.				
\boxtimes	External	antenna (dedicated antennas)				
	⊠ Sing	gle power level with corresponding antenna(s).				
	☐ Mul	tiple power level and corresponding antenna(s).				

	Antenna General Information						
Ant. Cat.	Ant. Type	Ant. Brand	Ant. Model	Ant. Connector	Gain (dBi)		
External	Dipole	KINSUN	6602303081	Reverse-SMA	1.00		

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1.1.3 Type of EUT

		ldent	ify EUT			
EU	T Serial Number	N/A				
Pre	sentation of Equipment	□ Production ; □ Production : □ Production	re-Production ;			
		Туре	of EUT			
\boxtimes	Stand-alone					
	Combined (EUT where the	ne radio part is fully inte	grated within another device)			
	Combined Equipment - B	rand Name / Model No.	:			
	Plug-in radio (EUT intend	led for a variety of host	systems)			
	Host System - Brand Nar	me / Model No.:				
	Other:					
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 v	vorst duty cycle				
	Test Signal Duty Cycle (x) Power Duty Factor [dB] – (10 log 1/x)					
\boxtimes	100.00% - IEEE 802.11b		0.00			
\boxtimes	100.00% - IEEE 802.11g		0.00			
\boxtimes	100.00% - IEEE 802.11n	(HT20)	0.00			

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1.1.5 EUT Operational Condition

100.00% - IEEE 802.11n (HT40)

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

0.00

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1.2 Support Equipment

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

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1.3 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 558074 D01 v03r04
- FCC KDB 662911 D01v02r01

1.4 Testing Location Information

	Testing Location							
\boxtimes	HWA YA	ADD :		lo. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, ao Yuan City, Taiwan, R.O.C.				
		TEL :	886-3-327-3456 FAX	886-3-327-0973				
Test Condition Test Site No. Test Engineer Test Envir					Test Environment			
AC Conduction			CO04-HY	Ryan	22°C / 55%			
	RF Condu	cted	TH01-HY	Candy	23°C / 63%			
	Radiated En	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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N	leasurement Uncertainty	
Test Item		Uncertainty
AC power-line conducted emissions		±2.3 dB
Emission bandwidth, 6dB bandwidth		±0.6 %
RF output power, conducted		±0.1 dB
Power density, conducted		±0.6 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		±0.6 %

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2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing					
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS		
11b,1-11Mbps	1	1-11 Mbps	1 Mbps		
11g,6-54Mbps	1	6-54 Mbps	6 Mbps		
HT20, M0-7	1	MCS 0-7	MCS 0		
HT40, M0-7	1	MCS 0-7	MCS 0		

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Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). The EUT supports HT20 and HT40. Worst modulation mode of Guard Interval (GI) is 800ns.

Note 2: Modulation modes consist below configuration:

11b: IEEE 802.11b, 11g: IEEE 802.11g, HT20/HT40: IEEE 802.11n

Note 3: RF output power specifies that Maximum Peak Conducted Output Power.

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (2400-2483.5MHz band)							
Test Software Version EngineerMode							
		Test Frequency (MHz)					
Modulation Mode	N _{TX}	NCB: 20MHz			NCB: 40MHz		
		2412	2437	2462	2422	2437	2452
11b	1	18	19	17.5	-	-	-
11g	1	21	30	15	-	-	-
HT20	1	20	30	14.5	-	-	-
HT40	1	-	-	-	18.5	18	14.5

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2.3 The Worst Case Measurement Configuration

Th	The Worst Case Mode for Following Conformance Tests				
Tests Item	AC power-line conducted emissions				
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz				
Operating Mode					
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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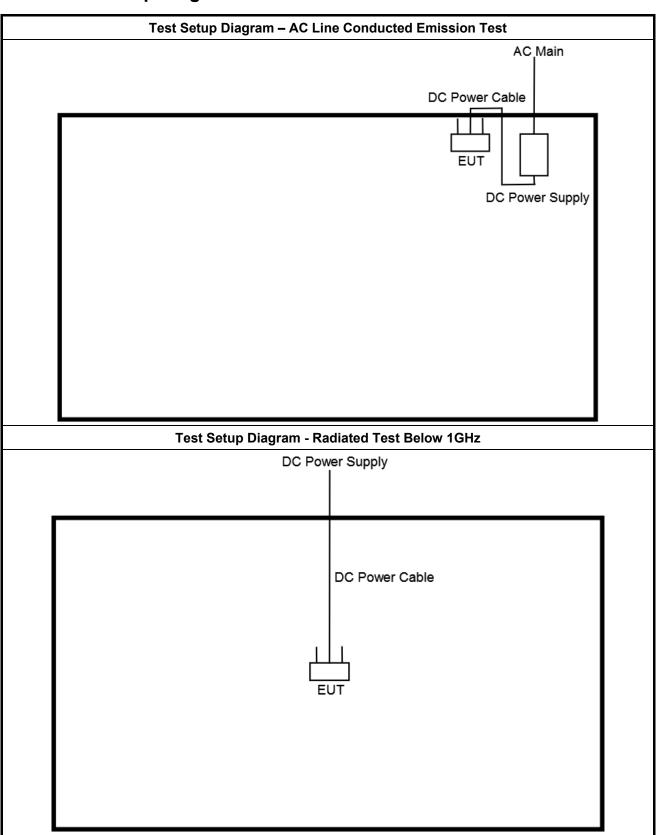
The Worst Case Mode for Following Conformance Tests				
Tests Item RF Output Power, Power Spectral Density, 6 dB Bandwidth				
Test Condition	Conducted measurement at transmit chains			
Modulation Mode	11b, 11g, HT20, HT40			

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	Radiated measurement				
	☐ 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	on				
	Transmit Mode (DC Power Supply 12V)					
Radiated Below 1GHz	2. Transmit Mode (DC Power Supply 24V)					
	The "mode 1" generated the worst test result; it was reported as final data.					
Radiated Above 1GHz	Transmit Mode					
Modulation Mode	11b, 11g, HT20, HT40					
	X Plane	Y Plane	Z Plane			
Orthogonal Planes of EUT						
Worst Planes of EUT	V					

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2.4 Test Setup Diagram



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit					
Frequency Emission (MHz)	Quasi-Peak	Average			
0.15-0.5	66 - 56 *	56 - 46 *			
0.5-5	56	46			
5-30	60	50			
Note 1: * Decreases with the logarithm of	of the frequency.				

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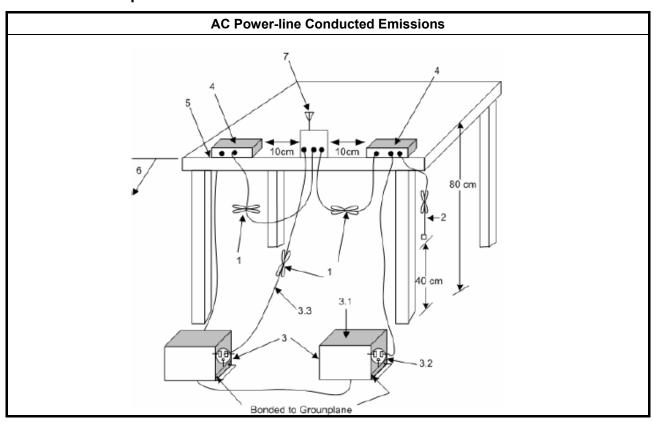
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

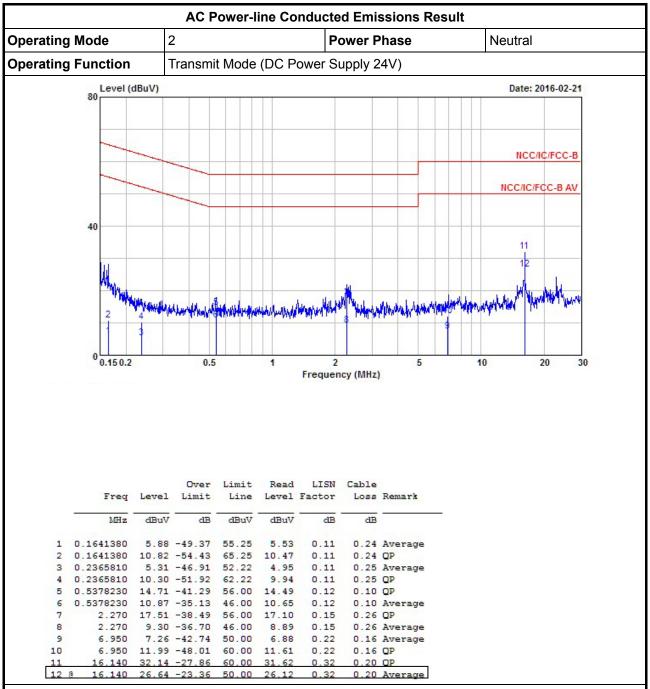
3.1.4 Test Setup



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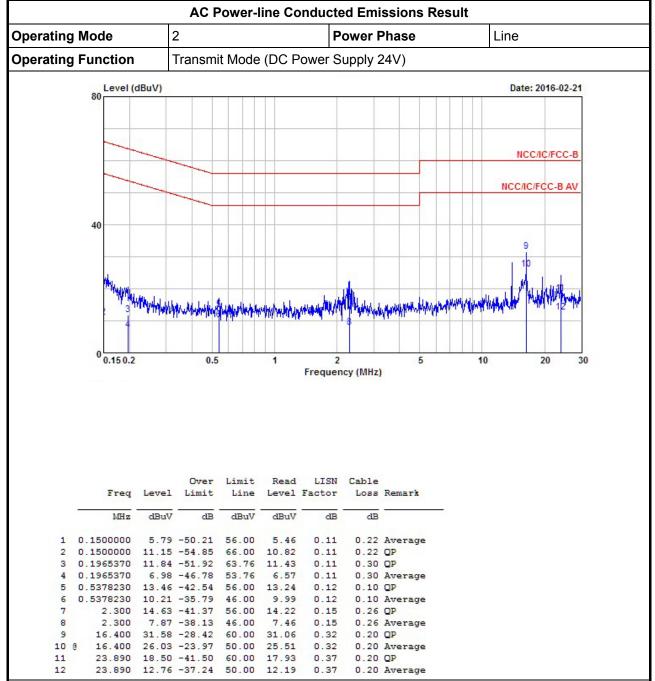
3.1.5 Test Result of AC Power-line Conducted Emissions



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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 6dB Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit					
Systems using digital modulation techniques:					
☐ 6 dB bandwidth ≥ 500 kHz.					

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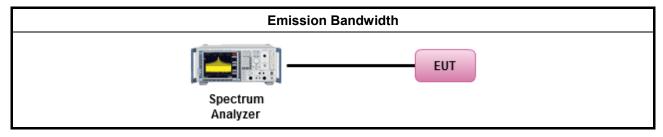
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

			Test Method						
\boxtimes	For	the e	he emission bandwidth shall be measured using one of the options below:						
	\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 8.1 Option 1 for 6 dB bandwidth measuremen							
		Ref	Fer as FCC KDB 558074 D01 v03r04, clause 8.2 Option 2 for 6 dB bandwidth measurement.						
		Ref	er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
\boxtimes	For	cond	ducted 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 2 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



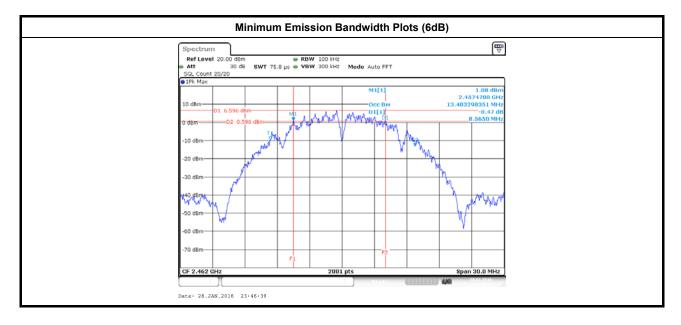
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3.2.5 Test Result of Emission Bandwidth

Condi	lan.		Emission Bandwidth Result	adviidėla (BALI=)			
Conai	ion		Emission Bandwidth (MHz)				
Modulation Mode	N _{TX}	Freq.	99% Bandwidth	6dB Bandwidth			
		(MHz)	Chain Port 1	Chain Port 1			
11b	1	2412	13.73	9.10			
11b	1	2437	13.94	8.92			
11b	1	2462	13.40	8.56			
11g	1	2412	16.52	16.38			
11g	1	2437	18.96	16.36			
11g	1 2462		16.34	16.36			
HT20	1	2412	17.66	17.59			
HT20	1	2437	19.35	17.64			
HT20	1	2462	17.57	17.61			
HT40	1	2422	36.18	36.36			
HT40	1	2437	36.02	36.08			
HT40	1	2452	36.02	36.32			
Lim	it		N/A	≥500 kHz			
Resu	ılt		Com	plied			

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3.3 RF Output Power

3.3.1 RF Output Power Limit

		RF Output Power Limit					
Max	Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit						
\boxtimes	240	0-2483.5 MHz Band:					
	\boxtimes	If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W)					
	\boxtimes	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm					
		Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
		Smart antenna system (SAS):					
		☐ Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
		Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
		\square Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm					
e.i.r	.p. P	ower Limit:					
\boxtimes	240	0-2483.5 MHz Band					
	\boxtimes	Point-to-multipoint systems (P2M): P _{eirp} ≤ 36 dBm (4 W)					
		Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$					
		Smart antenna system (SAS)					
		☐ Single beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$					
		☐ Overlap beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$					
		☐ Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$					
G_{TX}	Pout = maximum peak conducted output power or maximum conducted output power in dBm, G _{TX} = the maximum transmitting antenna directional gain in dBi. Peirp = e.i.r.p. Power in dBm.						

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3.3.2 Measuring Instruments

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

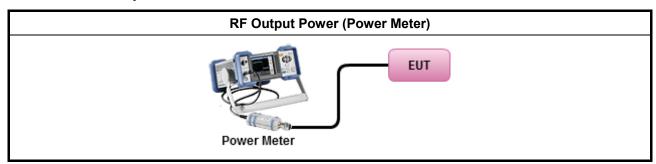
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3.3.3 Test Procedures

		Test Method
\boxtimes	Max	imum Peak Conducted Output Power
		Refer as FCC KDB 558074 D01 v03r04, clause 9.1.1 (RBW ≥ EBW method).
	\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 9.1.2 (peak power meter for VBW ≥ DTS BW).
\boxtimes	Max	imum Conducted Output Power
	[duty	y cycle ≥ 98% or external video / power trigger]
		Refer as FCC KDB 558074 D01 v03r04, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
		Refer as FCC KDB 558074 D01 v03r04, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 558074 D01 v03r04, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
		Refer as FCC KDB 558074 D01 v03r04, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
	RF p	power meter and average over on/off periods with duty factor or gated trigger
	\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 9.2.3 Method AVGPM (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 2 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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3.3.4 Test Setup



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3.3.5 Test Result of Maximum Peak Conducted Output Power

	Maximum Peak Conducted Output Power Result							
Condition			RF Output Power (dBm)					
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11b	1	2412	22.15	22.15	30.00	1.00	23.15	36.00
11b	1	2437	22.57	22.57	30.00	1.00	23.57	36.00
11b	1	2462	20.82	20.82	30.00	1.00	21.82	36.00
11g	1	2412	23.99	23.99	30.00	1.00	24.99	36.00
11g	1	2437	26.19	26.19	30.00	1.00	27.19	36.00
11g	1	2462	18.19	18.19	30.00	1.00	19.19	36.00
HT20	1	2412	23.19	23.19	30.00	1.00	24.19	36.00
HT20	1	2437	26.07	26.07	30.00	1.00	27.07	36.00
HT20	1	2462	15.07	15.07	30.00	1.00	16.07	36.00
HT40	1	2422	22.20	22.20	30.00	1.00	23.20	36.00
HT40	1	2437	21.49	21.49	30.00	1.00	22.49	36.00
HT40	1	2452	15.38	15.38	30.00	1.00	16.38	36.00
Resu	ılt				Comp	olied	•	•

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3.3.6 Test Result of Maximum Conducted Output Power

	Maximum Conducted Output Power Result										
Condi			RF Output Power (dBm)								
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	p		DG (dBi)	EIRP Power	EIRP Limit			
11b	1	2412	19.27	19.27	30.00	1.00	20.27	36.00			
11b	1	2437	19.69	19.69	30.00	1.00	20.69	36.00			
11b	1	2462	17.92	17.92	30.00	1.00	18.92	36.00			
11g	1	2412	19.03	19.03	30.00	1.00	20.03	36.00			
11g	1	2437	21.30	21.30	30.00	1.00	22.30	36.00			
11g	1	1	2462	13.25	13.25	30.00	1.00	14.25	36.00		
HT20	1	2412	2412 18.30 18.30		30.00	1.00	19.30	36.00			
HT20	1	2437	21.26	21.26	30.00	1.00	22.26	36.00			
HT20	1	2462	10.14	10.14	30.00	1.00	11.14	36.00			
HT40	1	2422	17.15	17.15	30.00	1.00	18.15	36.00			
HT40	1	2437	16.60	16.60 30.00		1.00	17.60	36.00			
HT40	1	2452	10.37	10.37	30.00	1.00	11.37	36.00			
Resu	Result				Comp	olied					

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3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

	Power Spectral Density Limit
\boxtimes	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

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3.4.2 Measuring Instruments

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

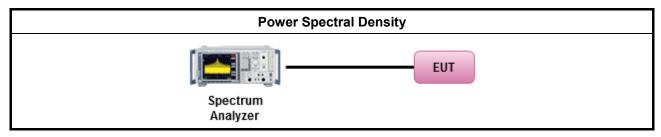
3.4.3 Test Procedures

		Test Method									
	outp the c cond of th	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).									
		Refer as FCC KDB 558074 D01 v03r04, clause 10.2 Method PKPSD (RBW=3-100kHz;detector=peak).									
	[duty	y cycle ≥ 98% or external video / power trigger]									
	\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 10.3 Method AVGPSD-1 (spectral trace averaging).									
ĺ		Refer as FCC KDB 558074 D01 v03r04, clause 10.4 Method AVGPSD-1 Alt. (slow sweep speed)									
	duty	cycle < 98% and average over on/off periods with duty factor									
		Refer as FCC KDB 558074 D01 v03r04, clause 10.5 Method AVGPSD-2 (spectral trace averaging).									
		Refer as FCC KDB 558074 D01 v03r04, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)									
\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 2 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 spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the N _{TX} output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.									
		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.									

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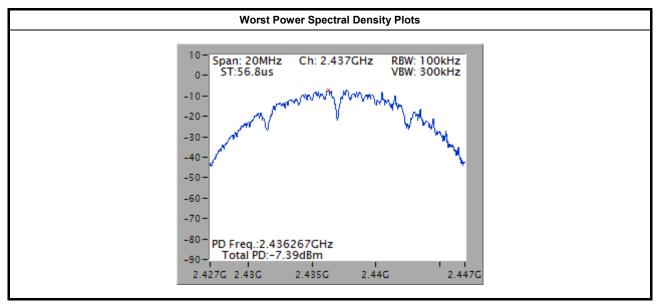
3.4.4 Test Setup



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3.4.5 Test Result of Power Spectral Density

			Power Spectral Density Result				
Condi	tion		Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain (dBm/100kHz)	PSD Limit (dBm/3kHz)			
11b	1	2412	-7.83	8.00			
11b	1	2437	-7.39	8.00			
11b	1	2462	-8.07	8.00			
11g 1 2412		2412	-10.49	8.00			
11g 1		2437	-8.19	8.00			
11g	1	2462	-16.63	8.00			
HT20	1	2412	-11.60	8.00			
HT20	1	2437	-9.02	8.00			
HT20	1	2462	-19.83	8.00			
HT40	1	2422	-15.62	8.00			
HT40	1	2437	-16.62	8.00			
HT40	1	2452	-22.90	8.00			
Resi	ılt		Com	plied			



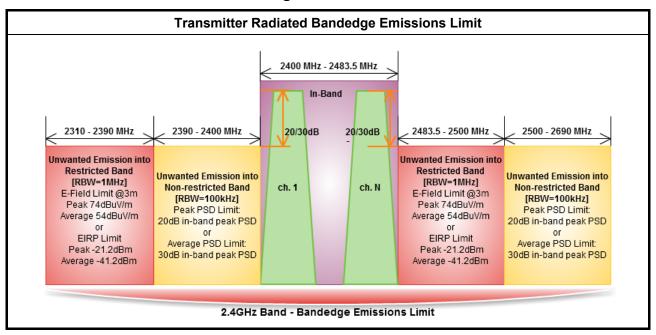
Note: 15.2dBm has been offset for 3kHz data.

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3.5 Transmitter Radiated Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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3.5.2 Measuring Instruments

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

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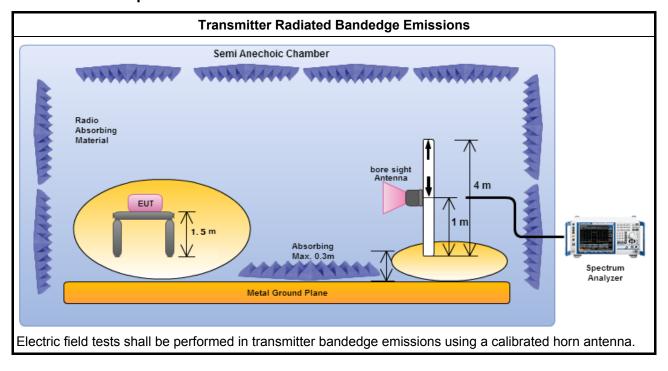
3.5.3 Test Procedures

			Test Method								
\boxtimes	The	aver	age emission levels shall be measured in [duty cycle ≥ 98 or duty factor].								
\boxtimes		Refer as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.									
\boxtimes	For	or the transmitter unwanted emissions shall be measured using following options below:									
	\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 11 for unwanted emissions into non-restricted bands.									
	\boxtimes	Refe	er as FCC KDB 558074 D01 v03r04, clause 12 for unwanted emissions into restricted bands.								
			Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)								
			Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.2 Option 2 (trace averaging + duty factor).								
		\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).								
	☐ Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse tir										
			Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.								
			Refer as FCC KDB 558074 D01 v03r04, clause 11.3 and 12.2.4 measurement procedure peak limit.								
\boxtimes	For	the tr	ansmitter bandedge emissions shall be measured using following options below:								
			er as FCC KDB 558074 D01 v03r04, clause 13.3 for narrower resolution bandwidth (100kHz) g the band power and summing the spectral levels (i.e., 1 MHz).								
	\boxtimes	Refe	er as ANSI C63.10, clause 6.10 for band-edge testing.								
	\boxtimes	Refe	er as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.								
\boxtimes			ted measurement, refer as FCC KDB 558074 D01 v03r04, clause 12.2.7 and ANSI C63.10, 6. Test distance is 3m.								

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Test Setup 3.5.4



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3.5.5 Test Result of Transmitter Radiated Bandedge Emissions

Modulation	N _{TX}	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11b	1	2412	102.97	2396.46	55.60	47.37	20	Н
11b	1	2462	105.06	2509.60	47.08	57.98	20	Н
11g	1	2412	97.41	2399.60	68.17	29.24	20	Н
11g	1	2462	95.14	2500.80	48.15	46.99	20	Н
HT20	1	2412	96.31	2399.60	66.60	29.71	20	Н
HT20	1	2462	90.71	2503.60	45.92	44.79	20	Н
HT40	1	2422	93.88	2399.23	60.65	33.23	20	Н
HT40	1	2452	89.10	2501.84	46.67	42.43	20	Н

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Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11b	1	2412	3	2339.34	55.50	74	2338.45	44.61	54	Н
11b	1	2462	3	2484.80	58.52	74	2483.60	47.39	54	Н
11g	1	2412	3	2389.97	69.94	74	2389.97	52.19	54	Н
11g	1	2462	3	2483.60	69.94	74	2483.50	52.33	54	Н
HT20	1	2412	3	2389.74	68.56	74	2389.97	52.50	54	Н
HT20	1	2462	3	2483.60	61.62	74	2483.80	46.79	54	Н
HT40	1	2422	3	2389.46	69.79	74	2389.46	52.73	54	Н
HT40	1	2452	3	2483.84	62.04	74	2484.08	47.47	54	Н

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3.6 Radiated Unwanted Emissions

3.6.1 Radiated Unwanted Emissions Limit

Restricted Band Emissions 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 Limit							
RF output power procedure	Limit (dB)						
Peak output power procedure	20						
Average output power procedure	30						

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.6.2 Measuring Instruments

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

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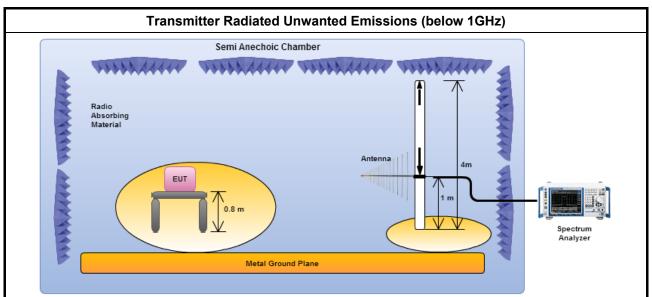
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3.6.3 Test Procedures

			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. 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).									
	The	aver	age emission levels shall be measured in [duty cycle ≥ 98 or duty factor].							
	For t	the tr	ansmitter unwanted emissions shall be measured using following options below:							
		Refer as FCC KDB 558074 D01 v03r04, clause 11 for unwanted emissions into non-restricted bands.								
	\boxtimes	Refe	er as FCC KDB 558074 D01 v03r04, clause 12 for unwanted emissions into restricted bands.							
			Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)							
			Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.2 Option 2 (trace averaging + duty factor).							
		\boxtimes	Refer as FCC KDB 558074 D01 v03r04, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).							
			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 558074 D01 v03r04, clause 11.3 and 12.2.4 measurement procedure peak limit.							
			Refer as FCC KDB 558074 D01 v03r04, clause 12.2.3 measurement procedure Quasi-Peak limit.							
\boxtimes	For	radia	ted measurement, refer as FCC KDB 558074 D01 v03r04, clause 12.2.7.							
	\boxtimes	Refe	er as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.							
	\boxtimes	Refe	er as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.							
	\boxtimes	Refe	er as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.							
	The	any ι	unwanted emissions level shall not exceed the fundamental emission level.							
\boxtimes		•	ude of spurious emissions that are attenuated by more than 20 dB below the permissible value							

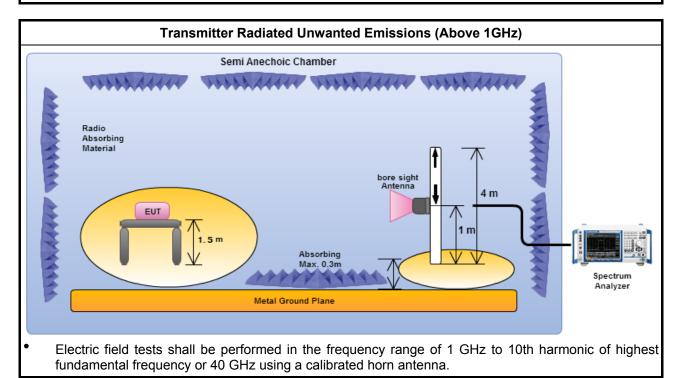
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Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

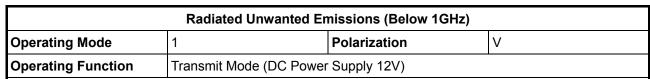


3.6.4 Radiated Unwanted Emissions (Below 30MHz)

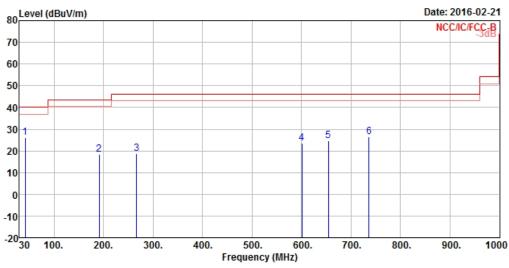
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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3.6.5 Radiated Unwanted Emissions (Below 1GHz)



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Freq	Level				Antenna Factor			Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	

1	41.64	26.13 -13.87	40.00	44.90	18.02	0.38	37.17 Peak
2	191.02	18.35 -25.15	43.50	39.32	14.53	0.78	36.28 Peak
3	266.68	18.93 -27.07	46.00	35.63	18.56	0.91	36.17 Peak
4	600.36	23.62 -22.38	46.00	34.44	24.73	1.41	36.96 Peak
5	654.68	24.78 -21.22	46.00	35.06	25.27	1.48	37.03 Peak
6	736.16	26.33 -19.67	46.00	35.40	26.49	1.59	37.15 Peak

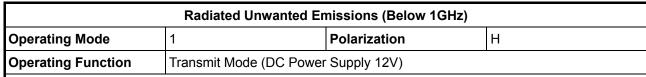
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

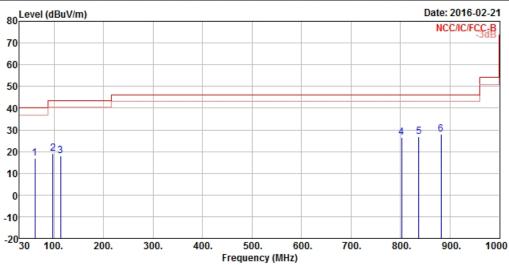
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	61.04	16.95	-23.05	40.00	42.54	10.93	0.47	36.99	Peak
2	97.90	19.05	-24.45	43.50	40.13	15.07	0.56	36.71	Peak
3	113.42	17.84	-25.66	43.50	37.44	16.45	0.59	36.64	Peak
4	802.12	26.45	-19.55	46.00	34.87	27.18	1.67	37.27	Peak
5	837.04	26.95	-19.05	46.00	34.70	27.83	1.71	37.29	Peak
6	881.66	28.08	-17.92	46.00	35.44	28.19	1.77	37.32	Peak

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

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

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

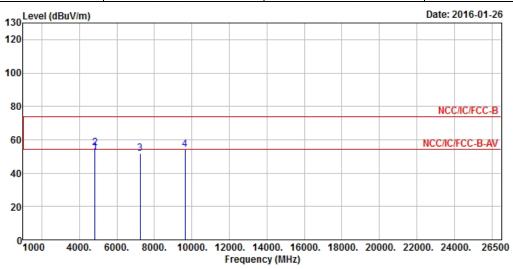
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FCC Test Report

3.6.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11b	Test Freq. (MHz)	2412				
N _{TX}	1	Polarization	V				

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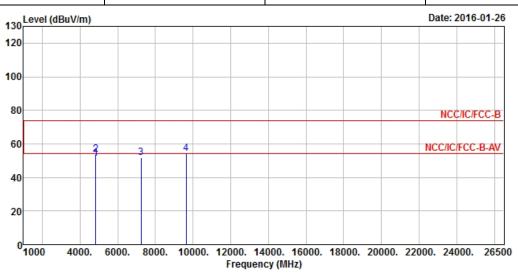


	Freq	Level				Antenna Factor			Remark
	MHz	dBuV/m	——dB	dBuV/m	dBuV	dB/m	dB	——dB	
1	4824.00	52.42	-1.58	54.00	48.97	32.99	6.11	35.65	Average
2	4824.00	55.37	-18.63	74.00	51.92	32.99	6.11	35.65	Peak
3	7236.00	51.87			43.81	36.48	7.57	35.99	Peak
4	9648.00	54.25			44.53	37.27	8.80	36.35	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.06 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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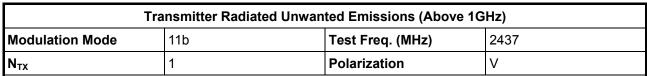
Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11b	Test Freq. (MHz)	2412					
N _{TX}	1	Polarization	Н					

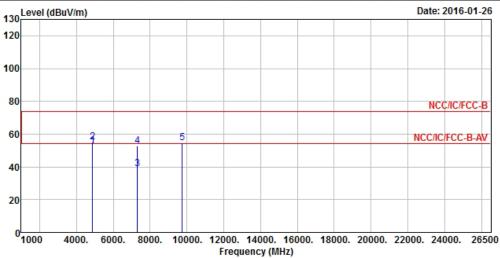


			0ver	Limit	Read/	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
_									
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.00	51.49	-2.51	54.00	48.04	32.99	6.11	35.65	Average
2	4824.00	53.94	-20.06	74.00	50.49	32.99	6.11	35.65	Peak
3	7236.00	51.73			43.67	36.48	7.57	35.99	Peak
4	9648.00	54.25			44.53	37.27	8.80	36.35	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.06 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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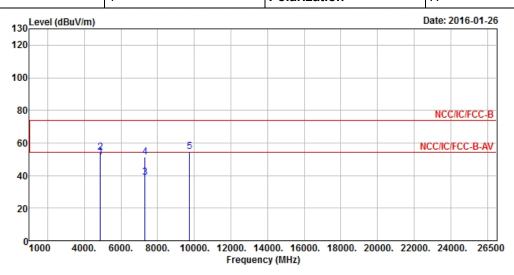


	Freq	Level				Antenna Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.00	52.95	-1.05	54.00	49.42	33.06	6.13	35.66	Average
2	4874.00	55.40	-18.60	74.00	51.87	33.06	6.13	35.66	Peak
3	7311.00	38.92	-15.08	54.00	30.65	36.67	7.60	36.00	Average
4	7311.00	52.78	-21.22	74.00	44.51	36.67	7.60	36.00	Peak
5	9748.00	54.69			44.93	37.25	8.89	36.38	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.66 dBuV/m).
- 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	11b	Test Freq. (MHz)	2437							
N _{TY}	1	Polarization	Н							



			_					_		
			0ver	Limit	Read/	Antenna	Cable	Preamp		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
	FIIIZ	ubuv/III	ub	ubuv/III	ubuv	ub/III	ub	ub		
1	4874.00	51.13	-2.8/	54.00	47.60	33.06	6.13	35.66	Average	
2	4874.00	54.12	-19.88	74.00	50.59	33.06	6.13	35.66	Peak	
3	7311.00	38.92	-15.08	54.00	30.65	36.67	7.60	36.00	Average	
4	7311.00	51.44	-22.56	74.00	43.17	36.67	7.60	36.00	Peak	
5	9748.00	54.61			44.85	37.25	8.89	36.38	Peak	

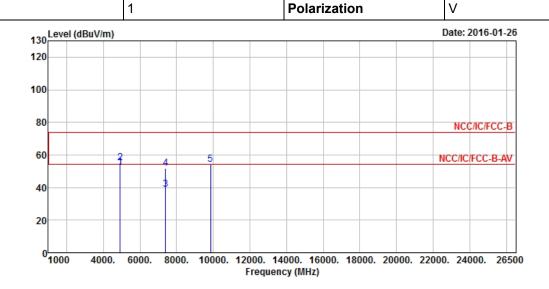
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.66 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11b	Test Freq. (MHz)	2462					

Report No.: FR611103AC



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2	4924.00 4924.00								
3	7386.00	38.63	-15.37	54.00	30.10	36.91	7.63	36.01	Average
4	7386.00	51.96	-22.04	74.00	43.43	36.91	7.63	36.01	Peak
5	9848.00	54.18			44.32	37.23	9.03	36.40	Peak

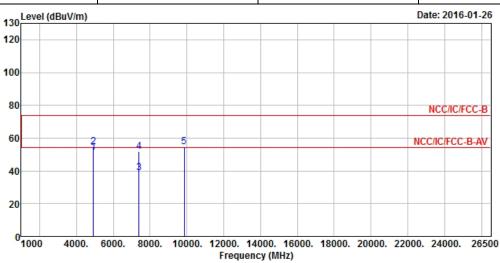
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.42 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Report No.: FR611103AC

Modulation Mode11bTest Freq. (MHz)2462N_{TX}1PolarizationH



	Freq	Level		Limit Line					Remark
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2	4924.00 4924.00								_
3	7386.00	39.00	-15.00	54.00	30.47	36.91	7.63	36.01	Average
4 5	7386.00 9848.00		-22.00	74.00		36.91 37.23			

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.42dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

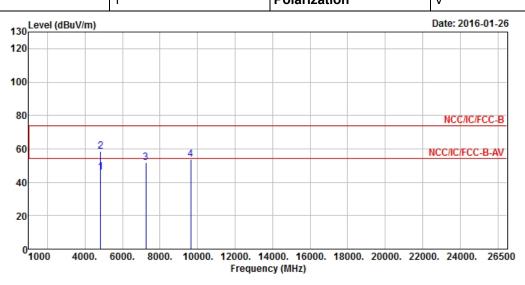
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11g Test Freq. (MHz) 2412

N_{TX} 1 Polarization V

Report No.: FR611103AC

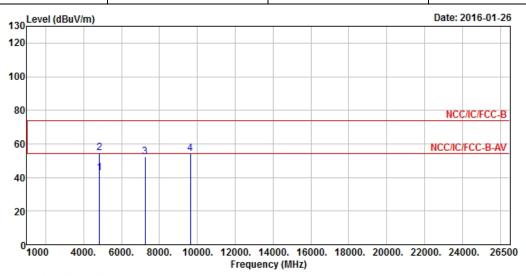


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.00	46.25	-7.75	54.00	42.80	32.99	6.11	35.65	Average
2	4824.00	58.46	-15.54	74.00	55.01	32.99	6.11	35.65	Peak
3	7236.00	51.68			43.62	36.48	7.57	35.99	Peak
4	9648.00	53.79			44.07	37.27	8.80	36.35	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.82 dBuV/m).
- 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	11g	Test Freq. (MHz)	2412						
N _{TX}	1	Polarization	Н						



	Freq	Level				Antenna Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.00	42.67	-11.33	54.00	39.22	32.99	6.11	35.65	Average
2	4824.00	54.69	-19.31	74.00	51.24	32.99	6.11	35.65	Peak
3	7236.00	52.29			44.23	36.48	7.57	35.99	Peak
4	9648.00	54.35			44.63	37.27	8.80	36.35	Peak

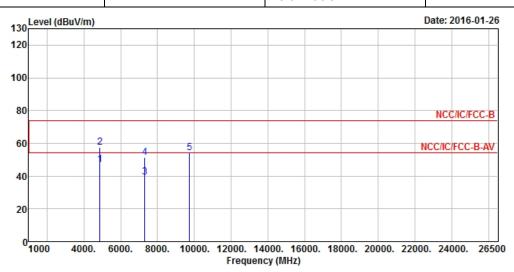
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.82 dBuV/m).
- 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 11g Test Freq. (MHz) 2437

N_{TX} 1 Polarization V



			0ver	Limit	ReadA	ntenna	Cable	Preamp		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	4874.00	46.82	-7.18	54.00	43.29	33.06	6.13	35.66	Average	
2	4874.00	57.64	-16.36	74.00	54.11	33.06	6.13	35.66	Peak	
3	7311.00	39.13	-14.87	54.00	30.86	36.67	7.60	36.00	Average	
4	7311.00	51.48	-22.52	74.00	43.21	36.67	7.60	36.00	Peak	
5	9748.00	54.38			44.62	37.25	8.89	36.38	Peak	

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

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

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

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

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.00 dBuV/m).

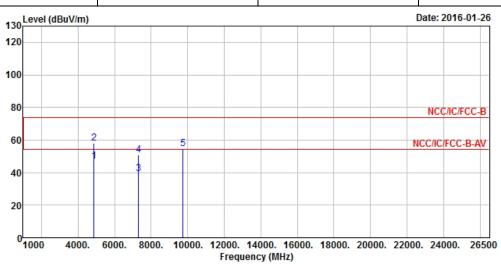
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Report No.: FR611103AC

Modulation Mode11gTest Freq. (MHz)2437N_{TX}1PolarizationH

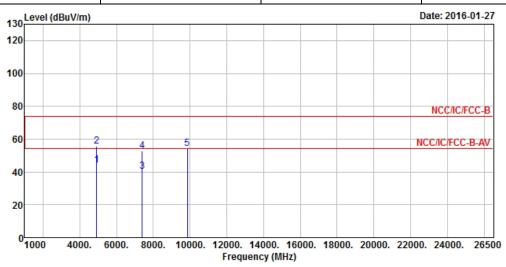


			0ver	Limit	ReadA	Intenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.00	46.93	-7.07	54.00	43.40	33.06	6.13	35.66	Average
2	4874.00	57.84	-16.16	74.00	54.31	33.06	6.13	35.66	Peak
3	7311.00	39.19	-14.81	54.00	30.92	36.67	7.60	36.00	Average
4	7311.00	50.75	-23.25	74.00	42.48	36.67	7.60	36.00	Peak
5	9748.00	54.50			44.74	37.25	8.89	36.38	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.00 dBuV/m).
- 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	11g	Test Freq. (MHz)	2462				
N _{TX}	1	Polarization	V				

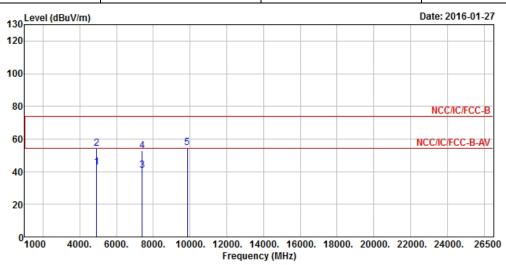


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2	4924.00 4924.00								_
3	7386.00								
4	7386.00	52.64	-21.36	74.00	44.11	36.91	7.63	36.01	Peak
5	9848.00	53.97			44.11	37.23	9.03	36.40	Peak

- 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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.11 dBuV/m).
- 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	11g	Test Freq. (MHz)	2462				
N_{TX}	1	Polarization	Н				



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.00	42.78	-11.22	54.00	39.15	33.12	6.17	35.66	Average
2	4924.00	54.11	-19.89	74.00	50.48	33.12	6.17	35.66	Peak
3	7386.00	40.71	-13.29	54.00	32.18	36.91	7.63	36.01	Average
4	7386.00	52.96	-21.04	74.00	44.43	36.91	7.63	36.01	Peak
5	9848.00	54.78			44.92	37.23	9.03	36.40	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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (105.11 dBuV/m).

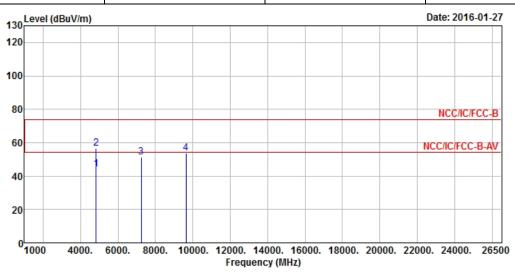
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	2412					
N _{TX}	1	Polarization	V					

Report No.: FR611103AC



			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	4824.00	43.98	-10.02	54.00	40.53	32.99	6.11	35.65	Average
2	4824.00	56.76	-17.24	74.00	53.31	32.99	6.11	35.65	Peak
3	7236.00	51.25			43.19	36.48	7.57	35.99	Peak
4	9648.00	53.87			44.15	37.27	8.80	36.35	Peak

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

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

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

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

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.12 dBuV/m).

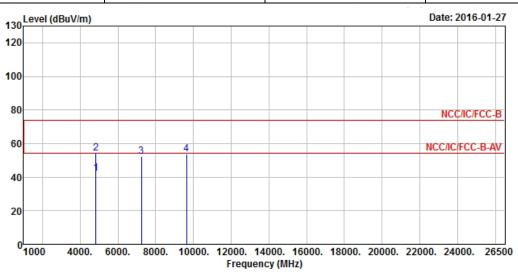
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT20	Test Freq. (MHz)	2412					
N_{TX}	1	Polarization	Н					

Report No.: FR611103AC



	Freq	Level		Limit Line					Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.00	42.23	-11.77	54.00	38.78	32.99	6.11	35.65	Average
2	4824.00	54.08	-19.92	74.00	50.63	32.99	6.11	35.65	Peak
3	7236.00	52.12			44.06	36.48	7.57	35.99	Peak
4	9648.00	53.57			43.85	37.27	8.80	36.35	Peak

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

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

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

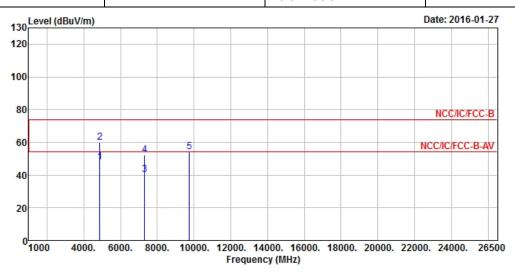
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (106.12 dBuV/m).

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)	2437					
N _{TX}	1	Polarization	V					



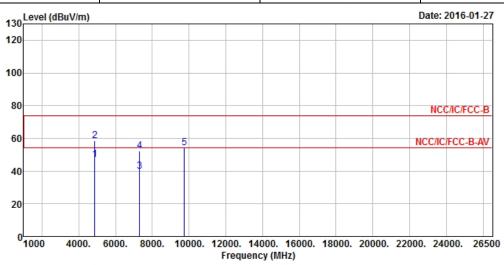
			0ver	Limit	ReadA	ntenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.00	48.17	-5.83	54.00	44.64	33.06	6.13	35.66	Average
2	4874.00	60.01	-13.99	74.00	56.48	33.06	6.13	35.66	Peak
3	7311.00	40.10	-13.90	54.00	31.83	36.67	7.60	36.00	Average
4	7311.00	52.09	-21.91	74.00	43.82	36.67	7.60	36.00	Peak
5	9748.00	54.32			44.56	37.25	8.89	36.38	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (112.03 dBuV/m).
- 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) 2437							
N _{TX}	1	Polarization	Н				

Report No.: FR611103AC



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2 3 4 5	4874.00 4874.00 7311.00 7311.00 9748.00	58.51 39.97 52.31	-15.49 -14.03	74.00 54.00	54.98 31.70 44.04	33.06 36.67	6.13 7.60 7.60	35.66 36.00 36.00	Peak Average 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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (112.03 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

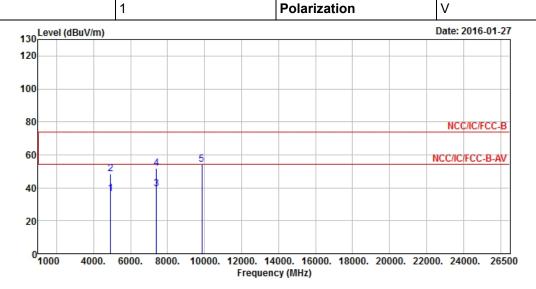
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 N_{TX}

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 2462

Report No.: FR611103AC

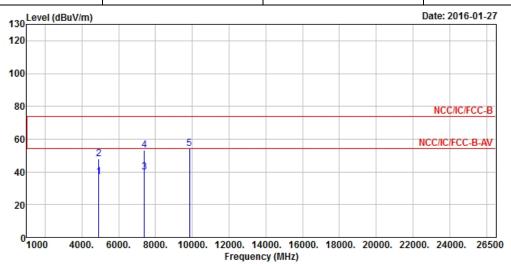


	Freq	Level		Limit Line					Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.00								
2	4924.00	48.27	-25.73	74.00	44.64	33.12	6.17	35.66	Peak
3	7386.00	39.52	-14.48	54.00	30.99	36.91	7.63	36.01	Average
4	7386.00	51.80	-22.20	74.00	43.27	36.91	7.63	36.01	Peak
5	9848.00	54.33			44.47	37.23	9.03	36.40	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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (101.67 dBuV/m).
- 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)	2462				
N _{TX}	1	Polarization	Н				



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.00	37.16	-16.84	54.00	33.53	33.12	6.17	35.66	Average
2	4924.00	48.05	-25.95	74.00	44.42	33.12	6.17	35.66	Peak
3	7386.00	39.92	-14.08	54.00	31.39	36.91	7.63	36.01	Average
4	7386.00	53.04	-20.96	74.00	44.51	36.91	7.63	36.01	Peak
5	9848.00	54.29			44.43	37.23	9.03	36.40	Peak

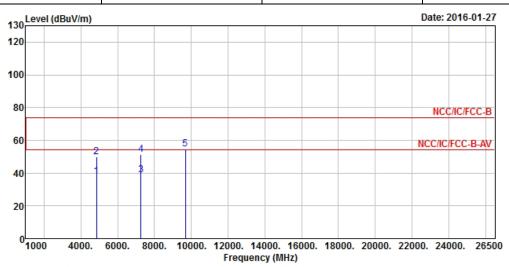
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (101.67 dBuV/m).
- 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)	2422						
N _{TX}	1	Polarization	V						

Report No.: FR611103AC



	F	1 1		Limit					Damanla
	Freq	rever	Limit	Line	revel	Factor	LOSS	Factor	Kemark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4844.00	37.95	-16.05	54.00	34.46	33.01	6.13	35.65	Average
2	4844.00	49.73	-24.27	74.00	46.24	33.01	6.13	35.65	Peak
3	7266.00	38.75	-15.25	54.00	30.59	36.57	7.59	36.00	Average
4	7266.00	51.46	-22.54	74.00	43.30	36.57	7.59	36.00	Peak
5	9688.00	54.59			44.85	37.26	8.84	36.36	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)

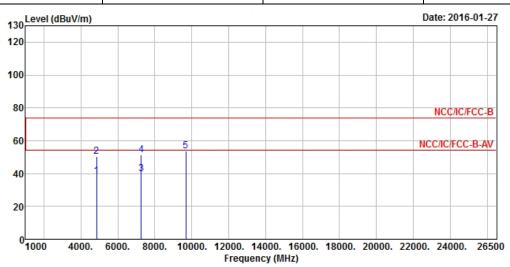
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (104.32 dBuV/m).

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)	2422					
N _{TX}	1	Polarization	Н					



	Freq	Level		Limit Line					
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4844.00	38.45	-15.55	54.00	34.96	33.01	6.13	35.65	Average
2	4844.00	50.43	-23.57	74.00	46.94	33.01	6.13	35.65	Peak
3	7266.00	39.77	-14.23	54.00	31.61	36.57	7.59	36.00	Average
4	7266.00	51.49	-22.51	74.00	43.33	36.57	7.59	36.00	Peak
5	9688.00	53.67			43.93	37.26	8.84	36.36	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)

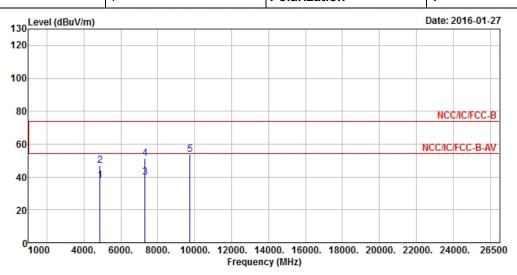
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (104.32 dBuV/m).

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

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	Transmitter Rad	iated Unwanted Emissions (Abov	e 1GHz)
Modulation Mode	HT40	Test Freq. (MHz)	2437
N _{TY}	1	Polarization	V

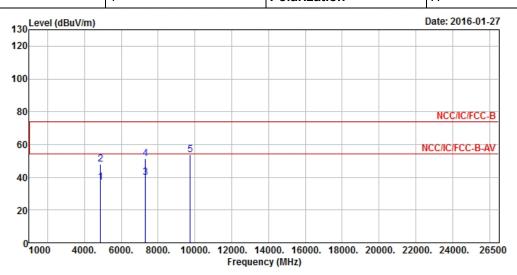


	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2 3	4874.00 4874.00 7311.00	47.00	-27.00	74.00	43.47	33.06	6.13	35.66	
4	7311.00 7311.00 9748.00	51.41			43.14		7.60	36.00	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (104.81 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Rad	liated Unwanted Emissions (Above	e 1GHz)
Modulation Mode	HT40	Test Freq. (MHz)	2437
N _{TY}	1	Polarization	Н



	Freq	Level		Limit Line					Remark
-	MHz	dBuV/m	——dB	dBuV/m	dBuV	dB/m	dB	——dB	
1	4874.00	36.77	-17.23	54.00	33.24	33.06	6.13	35.66	Average
2	4874.00	47.92	-26.08	74.00	44.39	33.06	6.13	35.66	Peak
3	7311.00	39.71	-14.29	54.00	31.44	36.67	7.60	36.00	Average
4	7311.00	51.39	-22.61	74.00	43.12	36.67	7.60	36.00	Peak
5	9748.00	53.68			43.92	37.25	8.89	36.38	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (104.81 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

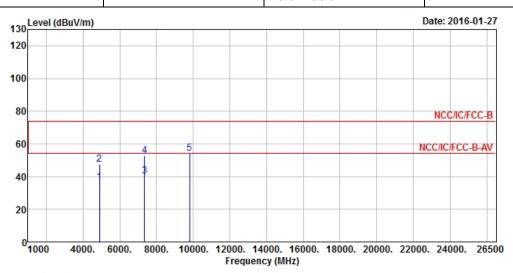
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 2452

N_{TX} 1 Polarization V

Report No.: FR611103AC



	Freq	Level				Antenna Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4904.00	36.37	-17.63	54.00	32.78	33.10	6.15	35.66	Average
2	4904.00	47.34	-26.66	74.00	43.75	33.10	6.15	35.66	Peak
3	7356.00	40.07	-13.93	54.00	31.66	36.81	7.61	36.01	Average
4	7356.00	52.62	-21.38	74.00	44.21	36.81	7.61	36.01	Peak
5	9808.00	54.34			44.50	37.24	8.99	36.39	Peak

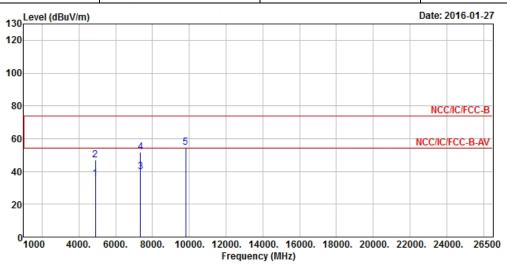
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (99.28 dBuV/m).
- 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) 2452							
N _{TX}	1	Polarization	Н				

Report No.: FR611103AC



	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 2 3 4 5	4904.00 4904.00 7356.00 7356.00 9808.00	46.80 40.01 51.74	-27.20 -13.99	74.00 54.00	43.21 31.60 43.33	33.10 36.81	6.15 7.61 7.61	35.66 36.01 36.01	Peak Average 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, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (99.28 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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4 Test Equipment and Calibration Data

< AC Conduction>

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

Report No.: FR611103AC

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
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
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	Feb. 17, 2015	Feb. 16, 2016
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	Feb. 17, 2015	Feb. 16, 2016

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

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<Radiation>

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

Report No.: FR611103AC

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
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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