

Equipment : Pan-Tilt Internet Camera

Brand Name : EDIMAX

Model No. : IC-5006IWT / IC-7001W / IC-7011W /

GC-D506IWT / IC-7113W / IC-7123W /

IC-7213W / IC-7223W

FCC ID : NDD9550061307

Standard : 47 CFR FCC Part 15.247

Operating Band : 2400 MHz - 2483.5 MHz

Equipment Class: DTS

Applicant : EDIMAX TECHNOLOGY CO., LTD.

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

New Taipei City, Taiwan

The product sample received on Sep. 19, 2013 and completely tested on Oct. 31, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Wayne Hsu / Assistant Manager

Testing Laboratory
1190

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APPENDIX A. TEST PHOTOS

APPENDIX B. PHOTOGRAPHS OF EUT



Summary of Test Result

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		Conforma	ance 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	Emissions 42.09 (Margi		[dBuV]: 0.3653120MHz 42.09 (Margin 16.52dB) - QP 35.20 (Margin 13.41dB) - AV	FCC 15.207	Complied
3.2	15.247(a)	Bandwidth	6dB Bandwidth Unit [MHz] 20M: 8.86 / 40M: 36.28	≥500kHz	Complied
3.3	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Power [dBm]:19.66	Power [dBm]:30	Complied
3.4	15.247(d)	Power Spectral Density	PSD [dBm/100kHz]:-11.21	PSD [dBm/3kHz]:8	Complied
3.5	15.247(c)	Transmitter Radiated Bandedge Emissions	Non-Restricted Bands: 2398.70MHz: 31.23dB Restricted Bands [dBuV/m at 3m]: 2487.30MHz 64.17 (Margin 9.83dB) - PK 53.00 (Margin 1.00dB) - AV	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.6	15.247(c)	Transmitter Radiated Unwanted Emissions	[dBuV/m at 3m]: 4874.000MHz 52.96 (Margin 1.04dB) - PK 54.84 (Margin 19.16dB) - AV	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied

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Revision History

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Report No.	Version	Description	Issued Date
FR391733	Rev. 01	Initial issue of report	Nov. 14, 2013

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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information								
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	Co-location		
2400-2483.5	b	2412-2462	1-11 [11]	1	18.52	N/A		
2400-2483.5	g	2412-2462	1-11 [11]	1	19.42	N/A		
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	19.66	N/A		
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	19.38	N/A		

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

1.1.2 Antenna Information

	Antenna Category								
\boxtimes	Exte	External antenna (dedicated antennas)							
	\boxtimes	Single power level with corresponding antenna(s).							
	☐ Multiple power level and corresponding antenna(s).								
		RF connector provided							
	☐ Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type)								
		☐ Standard antenna connector. (e.g., SMA, N, BNC, and TNC type)							

	Antenna General Information					
No.	No. Ant. Cat. Ant. Type Gain (dBi)					
1	External	Dipole	1.80			

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1.1.3 Type of EUT

Identify EUT					
EUT Serial Number	N/A				
Presentation of Equipment ☐ Production ; ☐ Pre-Production ; ☐ Prototype					
	Туре	of EUT			
☐ Combined (EUT where t	he radio part is fully inte	grated within another device)			
Combined Equipment - E	Brand Name / Model No	ı.:			
☐ Plug-in radio (EUT intend	ded for a variety of host	systems)			
Host System - Brand Na	me / Model No.:				
Other:					
☐ Operated normally mode	· · · · · · · · · · · · · · · · · · ·	or Worst Duty Cycle			
Operated normally mode	e for worst duty cycle				
○ Operated test mode for a continuous property of the continuous p	worst duty cycle				
Test Signal Dut	y Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)			
☐ 100% - IEEE 802.11b		0			
		0			
•					
1.1.5 EUT Operational Condition					

□ DC

External DC adapter

AC mains

Internal DC supply

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Supply Voltage

Type of DC Source

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System

Battery

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1.2 Product Details

There are two samples of EUT. The only difference is the outward appearances. For more detailed features description, please refer to the specifications or user's manual.

1.3 Accessories

Accessories Information								
AC Adapter	Brand Name	DVE	Model Name	DSA-12PFE-12 BUS 120100				
AC Adapter	Power Rating	I/P: 100-120V~ 5	0/60Hz 0.3A ; O/F	P: +12V===1A				

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

1.4 Support Equipment

	Support Equipment						
No.	No. Equipment Brand Name Model Name FCC ID						
1	Notebook	DELL	E5530	DoC			

1.5 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 558074
- FCC KDB 662911

1.6 Testing Location Information

	Testing Location						
\boxtimes	HWA YA	ADD	:	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
	TEL: 886-3-327-3456 FAX: 886-3-327-0973						
Test Condition				Test Site No.	Test Engineer	Test Environment	
	AC Conduction			CO04-HY	Zeus	23°C / 52%	
RF Conducted		TH06-HY Shiming		25.7°C / 60%			
Radiated Emission				03CH02-HY	Hsiao	23.6°C / 52%	

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1.7 Measurement Uncertainty

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

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Measurement Uncertainty						
Test Item		Uncertainty				
AC power-line conducted emissions		±2.26 dB				
Emission bandwidth, 6dB bandwidth		±1.42 %				
RF output power, conducted		±0.63 dB				
Power density, conducted		±0.81 dB				
Unwanted emissions, conducted	9 – 150 kHz	±0.38 dB				
	0.15 – 30 MHz	±0.42 dB				
	30 – 1000 MHz	±0.51 dB				
	1 – 18 GHz	±0.67 dB				
	18 – 40 GHz	±0.83 dB				
	40 – 200 GHz	N/A				
All emissions, radiated	9 – 150 kHz	±2.49 dB				
	0.15 – 30 MHz	±2.28 dB				
	30 – 1000 MHz	±2.56 dB				
	1 – 18 GHz	±3.59 dB				
	18 – 40 GHz	±3.82 dB				
	40 – 200 GHz	N/A				
Temperature		±0.8 °C				
Humidity		±3 %				
DC and low frequency voltages		±3 %				
Time		±1.42 %				
Duty Cycle		±1.42 %				

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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 / MC							
11b,1-11Mbps	1	1-11 Mbps	1 Mbps				
11g,6-54Mbps	1	6-54 Mbps	6 Mbps				
HT20,M0-7	1	M0-7	MCS 0				
HT40,M0-7	1	M0-7	MCS 0				

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (2400-2483.5MHz band)							
Test Software Version	MP E	MP B/G Test_1.3.8.0					
		Test Frequency (MHz)					
Modulation Mode	N_{TX}	NCB: 20MHz			NCB: 40MHz		
		2412	2437	2462	2422	2437	2452
11b,1-11Mbps	1	33	33	33	-	-	-
11g,6-54Mbps	1	42	42	39	-	-	-
HT20,M0-7	1	42	42	39	-	-	-
HT40,M0-7	1	-	-	-	42	43	36

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2.3 The Worst Case Measurement Configuration

Th	The Worst Case Mode for Following Conformance Tests		
Tests Item AC power-line conducted emissions			
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz		
Operating Mode	Operating Mode Description		
1 AC Power & Radio link (WLAN)			

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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	Modulation Mode 11b, 11g, HT20, HT40	

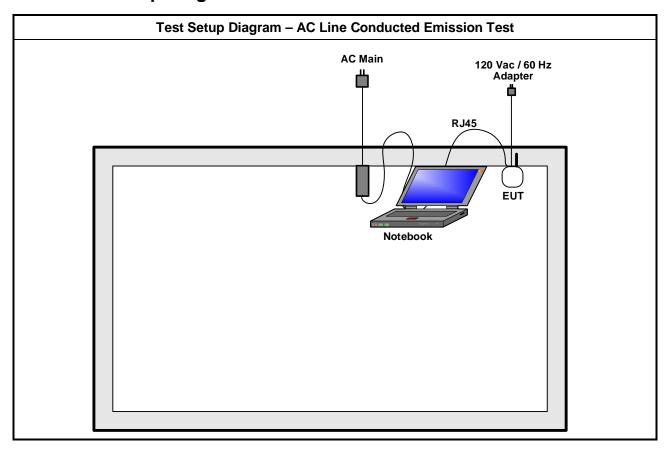
Th	ne Worst Case Mode for Following Conformance Tests
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.
Operating Mode	
Modulation Mode	11b, 11g, HT20, HT40

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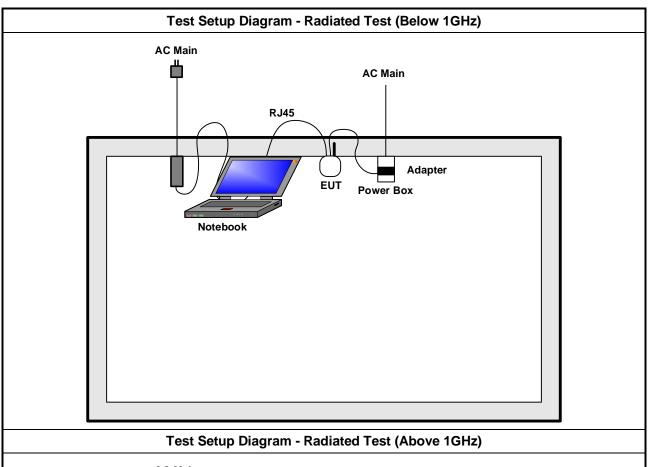
2.4 Test Setup Diagram

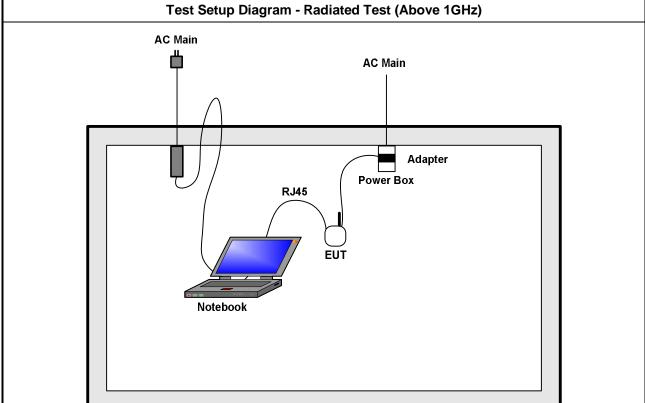


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3 Transmitter Test Result

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	

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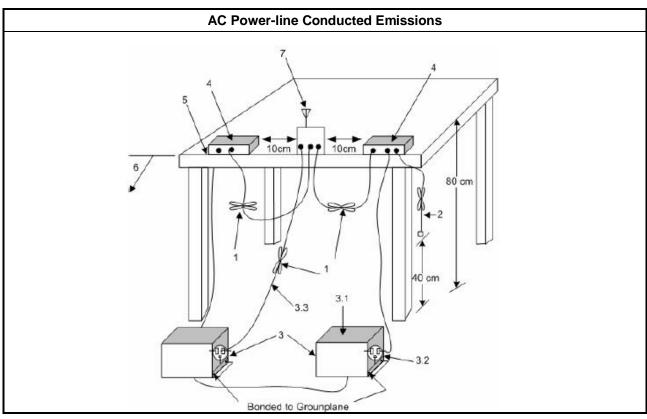
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

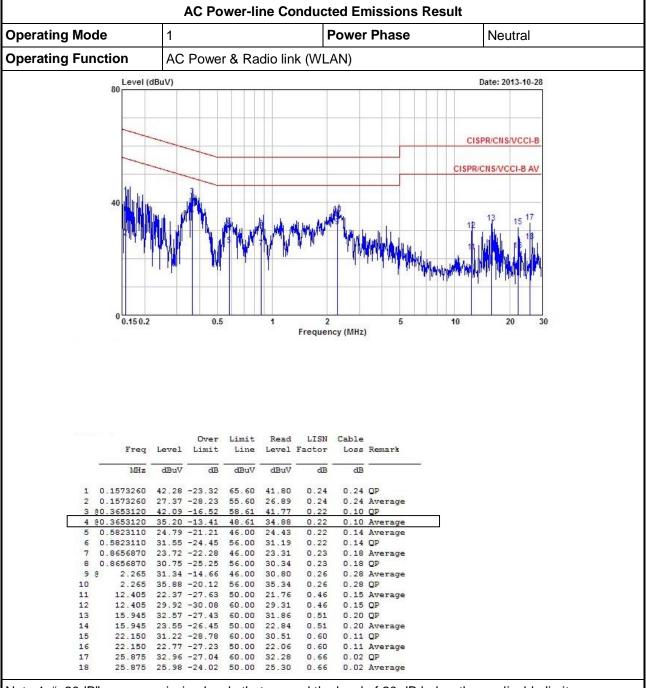
3.1.4 Test Setup



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3.1.5 Test Result of AC Power-line Conducted Emissions

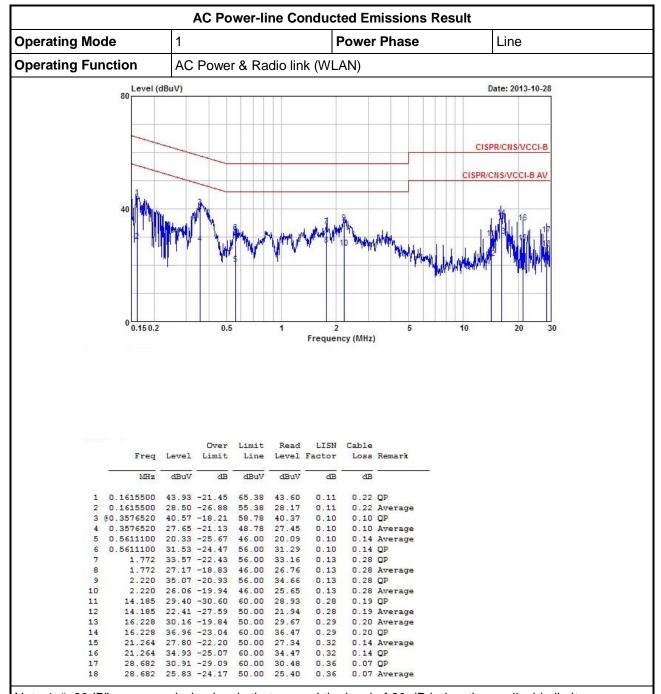


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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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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.

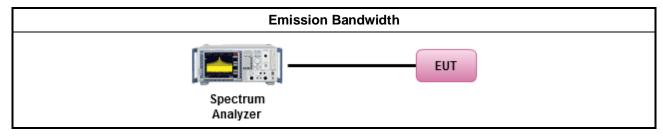
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

			Test Method
\boxtimes	For	the e	mission bandwidth shall be measured using one of the options below:
	\boxtimes	Ref	er as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
		Ref	er as FCC KDB 558074, 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	ucted measurement.
	\boxtimes	The	EUT supports single transmit chain and measurements performed on this transmit chain.
		The	EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The	EUT supports multiple transmit chains using options given below:
			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



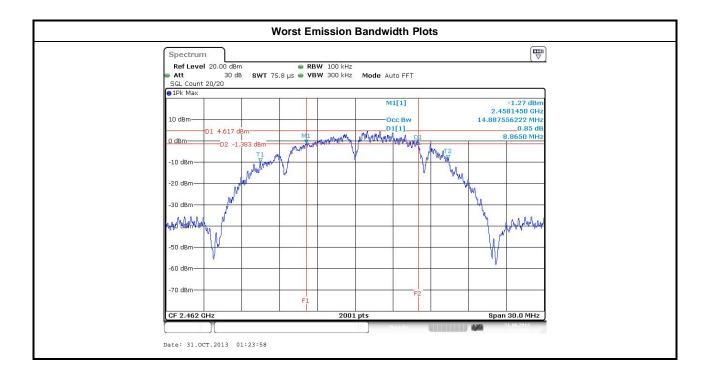
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3.2.5 Test Result of Emission Bandwidth

Condition			Emission Bandwidth (MHz)		
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth	6dB Bandwidth	
11b	1	2412	15.02	9.85	
11b	1	2437	15.08	9.55	
11b	1	2462	14.88	8.86	
11g	1	2412	16.46	16.45	
11g	1	2437	16.47	16.44	
11g	1	2462	16.35	16.33	
HT20	1	2412	17.63	17.62	
HT20	1	2437	17.64	17.67	
HT20	1	2462	17.57	17.58	
HT40	1	2422	35.94	36.36	
HT40	1	2437	35.90	36.28	
HT40	1	2452	35.90	36.32	
Limi	t		N/A	≥500 kHz	
Resu	lt		Com	plied	

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3.3 RF Output Power

3.3.1 RF Output Power Limit

	RF Output Power Limit				
Max	imuı	m Peak Conducted Output Power or Maximum Conducted Output Power Limit and e.i.r.p.			
\boxtimes	2400	0-2483.5 MHz Band:			
	\boxtimes	Point-to-multipoint systems (P2M): $P_{Out} \le 30 \text{ dBm (1 W)}$; $P_{eirp} \le 36 \text{ dBm (4 W)}$			
		Point-to-point systems (P2P): If $P_{eirp} > 36$ dBm, $G_{TX} \le P_{Out}$			
		Smart antenna system (SAS): If $P_{eirp} > 36$ dBm, $G_{TX} \le P_{Out}$			
		☐ Single beam: follow P2M, P2P limits			
		Overlap beam: follow P2M limit			
		Aggregate power on all beams: follow P2M limit + 8dB			
\mathbf{G}_{TX}	= the	aximum peak conducted output power or maximum conducted output power in dBm, maximum transmitting antenna directional gain in dBi. 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.

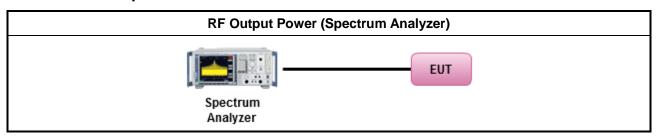
3.3.3 Test Procedures

		Test Method
\boxtimes	Max	rimum Peak Conducted Output Power
		Refer as FCC KDB 558074, clause 8.1.1 Option 1 (RBW ≥ EBW method).
	\boxtimes	Refer as FCC KDB 558074, clause 8.1.2 Option 2 (integrated band power method).
		Refer as FCC KDB 558074, clause 8.1.3 Option 2 (peak power meter for VBW ≥ DTS BW)
\boxtimes	Max	ximum Conducted (Average) Output Power
		Refer as FCC KDB 558074, clause 8.2.1 Option 1 (spectral trace averaging).
	\boxtimes	Refer as FCC KDB 558074, clause 8.2.2 Option 2 (slow sweep speed).
		Refer as FCC KDB 558074, clause 8.2.3 Option 3 (average power meter).
\boxtimes	For	conducted measurement.
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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3.3.4 Test Setup



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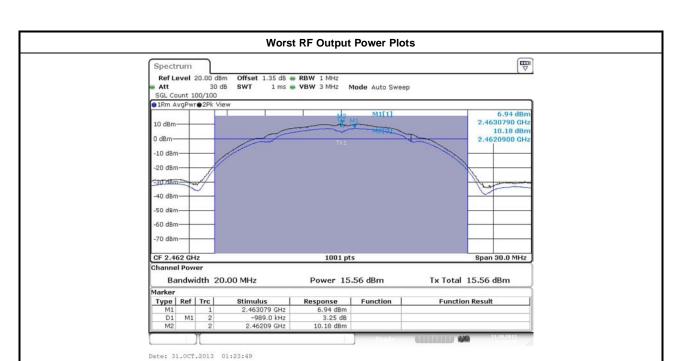
3.3.5 Test Result of Maximum Peak Conducted Output Power

Maximum Peak Conducted Output Power Result							
Condi	tion		RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Output Power	Power Limit	EIRP Power	EIRP Limit	
11b	1	2412	18.01	30	19.81	36	
11b	1	2437	18.33	30	20.13	36	
11b	1	2462	18.52	30	20.32	36	
11g	1	2412	19.06	30	20.86	36	
11g	1	2437	19.42	30	21.22	36	
11g	1	2462	18.31	30	20.11	36	
HT20	1	2412	19.17	30	20.97	36	
HT20	1	2437	19.66	30	21.46	36	
HT20	1	2462	18.46	30	20.26	36	
HT40	1	2422	18.72	30	20.52	36	
HT40	1	2437	19.38	30	21.18	36	
HT40	1	2452	16.15	30	17.95	36	
Resu	ılt	•		Com	plied		

3.3.6 Test Result of Maximum Conducted Output Power

	Maximum Conducted Output Power											
Condi	tion			RF Output Power (dBm)								
Modulation Mode	Modulation Mode N _{TX} Freq. (MHz)		Output Power	Power Limit	EIRP Power	EIRP Limit						
11b	1	2412	15.06	30	16.86	36						
11b	1	2437	15.37	30	17.17	36						
11b	1	2462	15.56	30	17.36	36						
11g	1	2412	14.20	30	16.00	36						
11g	1	2437	14.56	30	16.36	36						
11g	1	2462	13.43	30	15.23	36						
HT20	1	2412	14.11	30	15.91	36						
HT20	1	2437	14.47	30	16.27	36						
HT20	1	2462	13.35	30	15.15	36						
HT40	1	2422	13.83	30	15.63	36						
HT40	1	2437	14.45	30	16.25	36						
HT40	1	2452	11.26	30	13.06	36						
Resu	ılt			Com	plied							

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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.

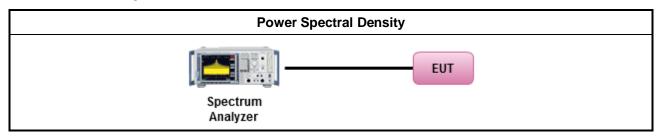
3.4.3 Test Procedures

		Test Method
	outp the c cond of th	k power spectral density procedures that the same method as used to determine the conducted out power. If maximum peak conducted output power was measured to demonstrate compliance to output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum ducted output power was measured to demonstrate compliance to the output power limit, then one he average PSD procedures shall be used, as applicable based on the following criteria (the peak D procedure is also an acceptable option).
	\boxtimes	Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz;detector=peak)
	[dut	y cycle ≥ 98% or external video / power trigger]
		Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).
		Refer as FCC KDB 558074, 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, clause 10.5 Method AVGPSD-2 (spectral trace averaging).
		Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
\boxtimes	For	conducted measurement.
		The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		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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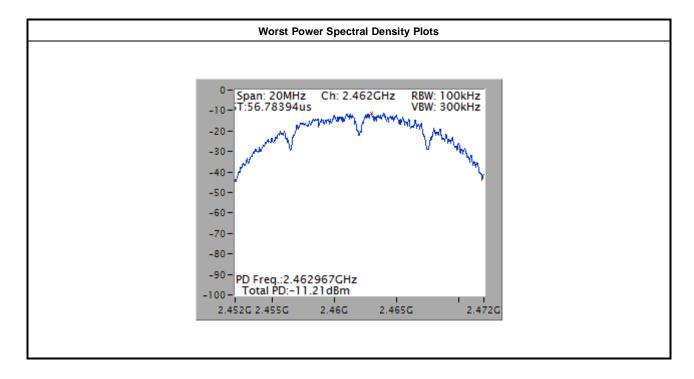
3.4.4 Test Setup



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3.4.5 Test Result of Power Spectral Density

			Power Spectral Density Result	
Modulation Mode	N _{TX}	Freq. (MHz)	Power Spectral Density (dBm/100kHz)	Power Limit (dBm/3kHz)
11b	1	2412	-11.84	8
11b	1	2437	-11.39	8
11b	1	2462	-11.21	8
11g	1	2412	-15.77	8
11g	1	2437	-14.99	8
11g	1	2462	-16.27	8
HT20	1	2412	-15.80	8
HT20	1	2437	-15.06	8
HT20	1	2462	-16.49	8
HT40	1	2422	-18.64	8
HT40	1	2437	-17.95	8
HT40	1	2452	-21.51	8
Resi	ılt		Compli	ed

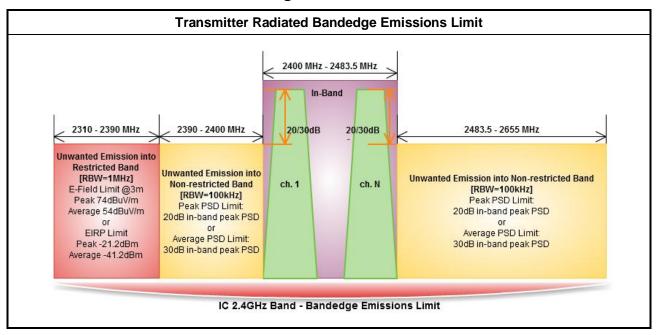


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3.5 Transmitter Bandedge Emissions

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.

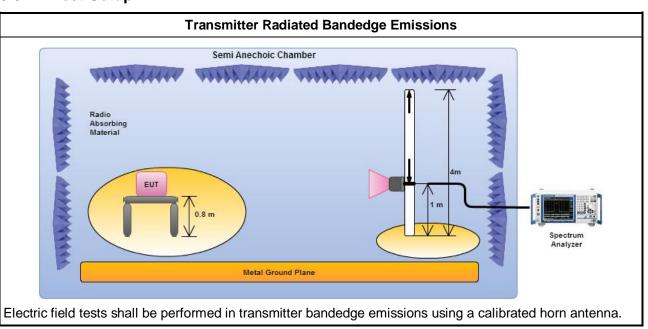
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3.5.3 Test Procedures

		Test Method								
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].								
\boxtimes		er as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency nnel 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, clause 11 for unwanted emissions into non-restricted bands.								
	\boxtimes	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.								
		Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)								
		Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).								
		☐ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).								
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is									
		Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.								
		Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.								
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:								
		Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).								
	\boxtimes	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.								
		Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.								
		radiated measurement, refer as FCC KDB 558074, clause 12.2.7 and ANSI C63.10, clause 6.6. distance is 3m.								

3.5.4 Test Setup



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3.5.5 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	110.83	2399.38	66.44	44.39	20	V
11b	1	2462	110.34	2521.00	63.70 46.64		20	V
11g	11g 1 2412 103.62		2398.70	72.39	31.23	20	V	
11g	1	2462	102.56	2548.60	63.33	39.23	20	V
HT20	1	2412	103.86	2400.00	71.42	32.44	20	V
HT20	1	2462	103.20	2529.90	63.60	39.60	20	V
HT40	1	2422	100.09	2398.57	68.66	31.43	20	V
HT40	1	2452	97.46	2540.36	63.58	33.88	20	V

	2400-2483.5MHz Transmitter Radiated Bandedge Emissions (Restricted Band)												
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	2386.05	63.04	74	2386.05	51.94	54	V			
11b	1	2462	3	2486.30	64.17	74	2487.30	53.00	54	V			
11g	1	2412	3	2389.18	70.17	74	2389.97	52.20	54	V			
11g	1	2462	3	2483.50	68.08	74	2483.50	52.93	54	V			
HT20	1	2412	3	2389.63	68.00	74	2390.00	52.39	54	V			
HT20	1	2462	3	2483.50	70.28	74	2485.00	52.59	54	V			
HT40	1	2422	3	2386.82	65.28	74	2390.00	52.36	54	V			
HT40	1	2452	3	2487.56	67.54	74	2483.50	52.91	54	V			

Note 1: Measurement worst emissions of receive antenna polarization.

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3.6 Transmitter Unwanted Emissions

3.6.1 Transmitter 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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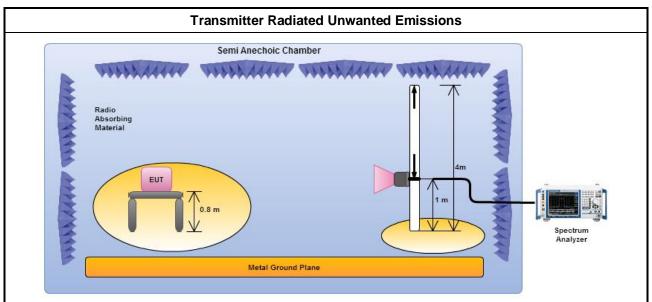
3.6.3 Test Procedures

		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).											
\boxtimes	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].											
\boxtimes	For	For the transmitter unwanted emissions shall be measured using following options below:										
	\boxtimes	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.										
	\boxtimes	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.										
		Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)										
		Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).										
		Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).										
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.										
		Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.										
		Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.										
		Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.										
	For	radiated measurement, refer as FCC KDB 558074, clause 12.2.7.										
	\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.										
	\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.										
\boxtimes	The	any unwanted emissions level shall not exceed the fundamental emission level.										
		amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.										

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3.6.4 Test Setup



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 and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

3.6.5 Transmitter 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.

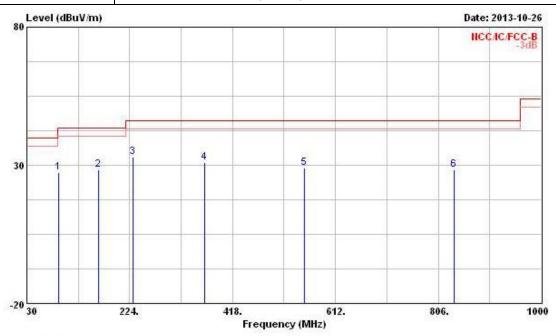
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Transmitter Radiated Unwanted Emissions (Below 1GHz)

Transmitter Radiated Unwanted Emissions (Below 1GHz) Operating Mode 1 Polarization V

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Operating Function AC Power & Radio link (WLAN)



	Freq	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
-	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	90.140	27.42	-16.08	43.50	44.29	9.50	1.34	27.71	Peak		
2	164.830	28.30	-15.20	43.50	43.68	10.34	1.82	27.54	Peak		
3	230.790	33.06	-12.94	46.00	45.76	12.37	2.27	27.34	Peak		~
4	365.620	30.88	-15.12	46.00	40.94	14.72	2.87	27.65	Peak		
5	552.830	29.14	-16.86	46.00	35.25	18.80	3.56	28.47	Peak		
6	835.100	28.45	-17.55	46.00	31.73	20.19	4.49	27.96	Peak		

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

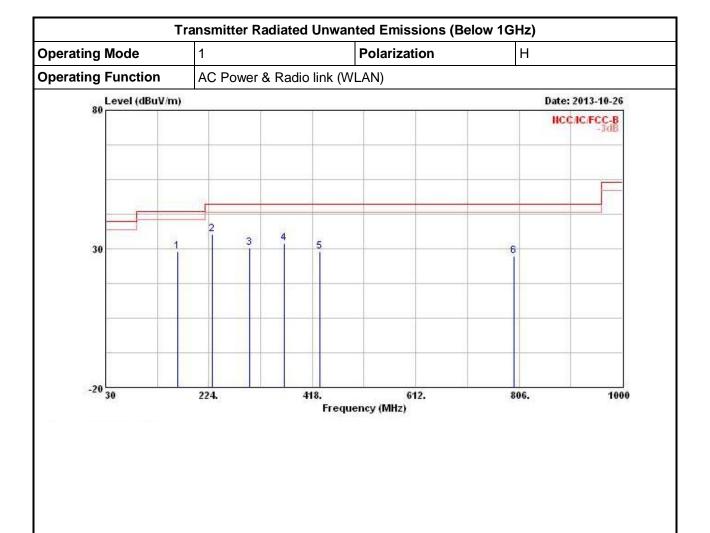
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	164.830	28.95	-14.55	43.50	44.33	10.34	1.82	27.54	Peak		
2	230.790	35.37	-10.63	46.00	48.07	12.37	2.27	27.34	Peak		
3	299.660	30.29	-15.71	46.00	41.19	13.70	2.55	27.15	Peak		
4	365.620	31.87	-14.13	46.00	41.93	14.72	2.87	27.65	Peak		
5	431.580	29.07	-16.93	46.00	38.14	15.90	3.10	28.07	Peak		
6	796.300	27.39	-18.61	46.00	30.86	20.21	4.40	28.08	Peak		

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

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

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

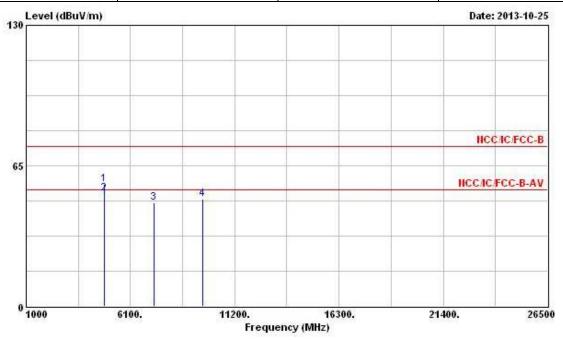
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



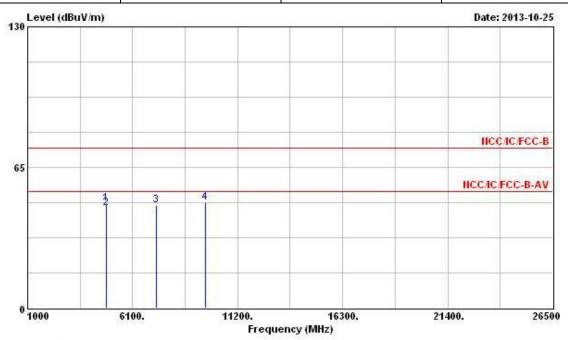
	7			Over			Antenna				Ant	Table
	Fre	eq	Level	Limit	Line	rever	Factor	ross	Factor	Kemark	Pos	Pos
	м	Нz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	×	cm	deg
1	4824.00	00	56.52	-17.48	74.00	51.70	34.80	4.70	34.68	Peak		
2	4824.00	00	52.27	-1.73	54.00	47.45	34.80	4.70	34.68	Average		
3	7236.00	00	47.73			41.40	35.90	5.37	34.94	Peak		
4	9648.00	00	49.63			41.68	36.95	6.35	35.35	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 (115.19 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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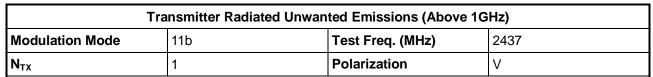


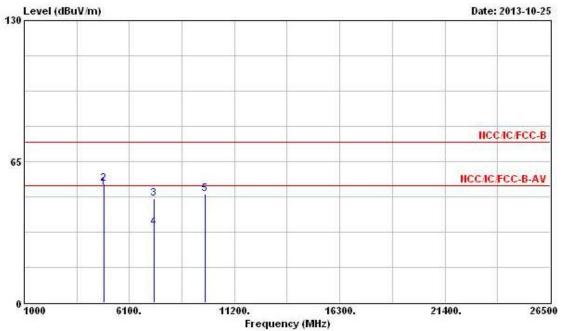
			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	4824.000	48.30	-25.70	74.00	43.48	34.80	4.70	34.68	Peak		
2	4824.000	46.36	-7.64	54.00	41.54	34.80	4.70	34.68	Average		
3	7236.000	47.43			41.10	35.90	5.37	34.94	Peak		
4	9648.000	48.94			40.99	36.95	6.35	35.35	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 (115.19 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	MHz dBuV/m		tuV/m dB dBuV/m dB		BuV dB/m		dB			deg
1 @	4874.000	52.96	-1.04	54.00	48.13	34.77	4.73	34.67	Average	***	
2	4874.000	54.84	-19.16	74.00	50.01	34.77	4.73	34.67	Peak		
3	7311.000	47.94	-26.06	74.00	41.52	35.90	5.47	34.95	Peak		
4	7311.000	34.68	-19.32	54.00	28.26	35.90	5.47	34.95	Average		
5	9748.000	49.91			41.75	37.11	6.41	35.36	Peak		

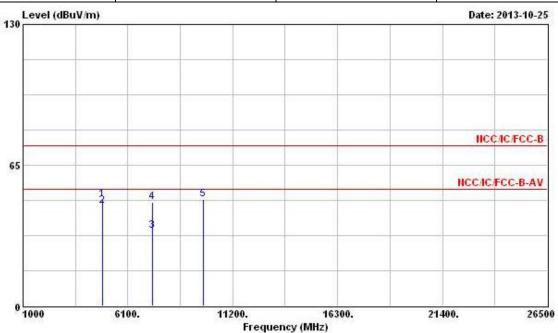
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (114.77 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	11b	Test Freq. (MHz)	2437								
N_{TX}	1	Polarization	Н								

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	Freg	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	4874.000	49.00	-25.00	74.00	44.17	34.77	4.73	34.67	Peak		
2	4874.000	46.15	-7.85	54.00	41.32	34.77	4.73	34.67	Average		
3	7311.000	34.79	-19.21	54.00	28.37	35.90	5.47	34.95	Average	<u> </u>	<u> </u>
4	7311.000	47.91	-26.09	74.00	41.49	35.90	5.47	34.95	Peak		
5	9748.000	49.34			41.18	37.11	6.41	35.36	Peak	777	

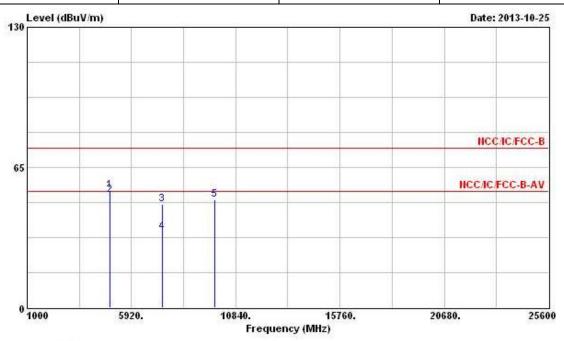
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (114.77 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	11b	Test Freq. (MHz)	2462								
N _{TX}	1	Polarization	V								

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				Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	E	req	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4924.	000	54.36	-19.64	74.00	49.49	34.74	4.79	34.66	Peak		
2 @	4924.	000	52.30	-1.70	54.00	47.43	34.74	4.79	34.66	Average		
3	7386.	000	47.69	-26.31	74.00	41.19	35.90	5.57	34.97	Peak		
4	7386.	000	35.15	-18.85	54.00	28.65	35.90	5.57	34.97	Average		
5	9848.	000	50.11			41.73	37.25	6.50	35.37	Peak		

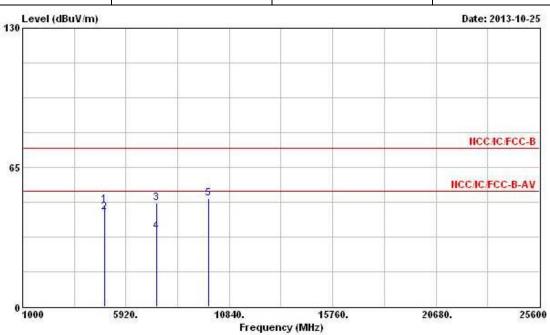
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (114.54 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	11b	Test Freq. (MHz)	2462								
N _{TX}	1	Polarization	Н								

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			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4924.000	47.60	-26.40	74.00	42.73	34.74	4.79	34.66	Peak		
2	4924.000	44.03	-9.97	54.00	39.16	34.74	4.79	34.66	Average		
3	7386.000	48.38	-25.62	74.00	41.88	35.90	5.57	34.97	Peak		
4	7386.000	35.12	-18.88	54.00	28.62	35.90	5.57	34.97	Average		
5	9848.000	50.34			41.96	37.25	6.50	35.37	Peak		

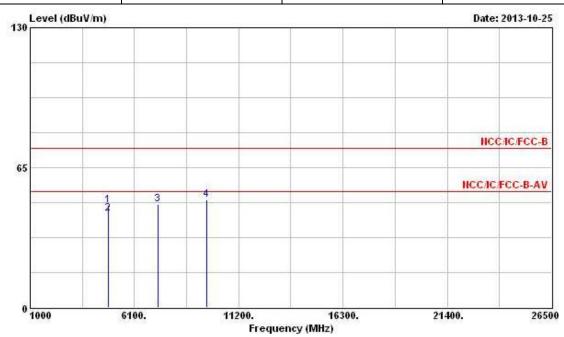
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (114.54 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	V							

Report No.: FR391733



		0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
4824.000	47.38	-26.62	74.00	42.56	34.80	4.70	34.68	Peak		
4824.000	43.59	-10.41	54.00	38.77	34.80	4.70	34.68	Average		
7236.000	47.82			41.49	35.90	5.37	34.94	Peak	222	
9648.000	50.08			42.13	36.95	6.35	35.35	Peak		
	MHz 4824.000 4824.000 7236.000	MHz dBuV/m 4824.000 47.38 4824.000 43.59 7236.000 47.82	MHz dBuV/m dB 4824.000 47.38 -26.62 4824.000 43.59 -10.41 7236.000 47.82	### Record Freq Level Limit Line	### Record Freq Level Limit Line Level	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dBuV dB/m 4824.000 47.38 -26.62 74.00 42.56 34.80 4824.000 43.59 -10.41 54.00 38.77 34.80 7236.000 47.82 41.49 35.90	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 4824.000 47.38 -26.62 74.00 42.56 34.80 4.70 4824.000 43.59 -10.41 54.00 38.77 34.80 4.70 7236.000 47.82 41.49 35.90 5.37	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4824.000 47.38 -26.62 74.00 42.56 34.80 4.70 34.68 4824.000 43.59 -10.41 54.00 38.77 34.80 4.70 34.68 7236.000 47.82 41.49 35.90 5.37 34.94	Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4824.000 47.38 -26.62 74.00 42.56 34.80 4.70 34.68 Peak 4824.000 43.59 -10.41 54.00 38.77 34.80 4.70 34.68 Rverage 7236.000 47.82 41.49 35.90 5.37 34.94 Peak	Freq Level Limit Line Level Factor Loss Factor Remark Pos MHz dBuV/m dB dB/m dB dB dB cm 4824.000 47.38 -26.62 74.00 42.56 34.80 4.70 34.68 Peak 4824.000 43.59 -10.41 54.00 38.77 34.80 4.70 34.68 Average 7236.000 47.82 41.49 35.90 5.37 34.94 Peak

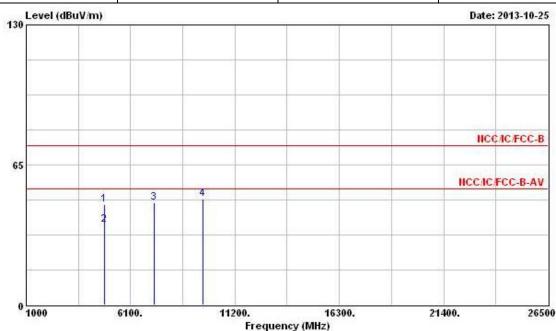
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (112.63 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								

Report No.: FR391733



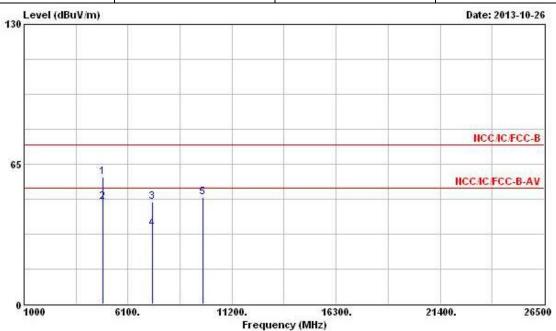
			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·	cm	deg
1	4824.000	46.45	-27.55	74.00	41.63	34.80	4.70	34.68	Peak		
2	4824.000	37.25	-16.75	54.00	32.43	34.80	4.70	34.68	Average		
3	7236.000	47.31			40.98	35.90	5.37	34.94	Peak		
4	9648.000	49.16			41.21	36.95	6.35	35.35	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 (112.63 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) 2437										
N _{TX} 1 Polarization V										



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	4874.000	59.17	-14.83	74.00	54.34	34.77	4.73	34.67	Peak		
2	4874.000	47.27	-6.73	54.00	42.44	34.77	4.73	34.67	Average		
3	7311.000	47.66	-26.34	74.00	41.24	35.90	5.47	34.95	Peak		
4	7311.000	34.89	-19.11	54.00	28.47	35.90	5.47	34.95	Average	777	
5	9748.000	49.48			41.32	37.11	6.41	35.36	Peak		

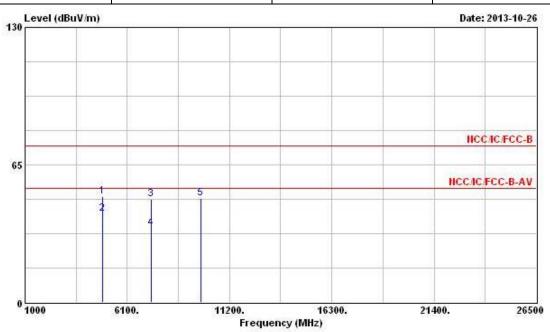
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (116.52 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)	2437							
N _{TX}	1	Polarization	Н							

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	4874.000	49.93	-24.07	74.00	45.10	34.77	4.73	34.67	Peak		
2	4874.000	41.78	-12.22	54.00	36.95	34.77	4.73	34.67	Average		
3	7311.000	48.60	-25.40	74.00	42.18	35.90	5.47	34.95	Peak	<u> </u>	
4	7311.000	35.08	-18.92	54.00	28.66	35.90	5.47	34.95	Average		
5	9748.000	49.36			41.20	37.11	6.41	35.36	Peak		

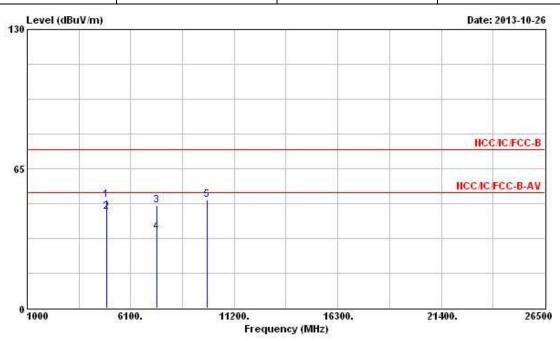
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (116.52 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)	2462							
N _{TX}	1	Polarization	V							

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	8 <u>. </u>	cm	deg
1	4924.000	50.37	-23.63	74.00	45.50	34.74	4.79	34.66	Peak	-	
2	4924.000	44.88	-9.12	54.00	40.01	34.74	4.79	34.66	Average	575,050	10000
3	7386.000	47.96	-26.04	74.00	41.46	35.90	5.57	34.97	Peak		
4	7386.000	35.61	-18.39	54.00	29.11	35.90	5.57	34.97	Average		
5	9848.000	50.38			42.00	37.25	6.50	35.37	Peak		

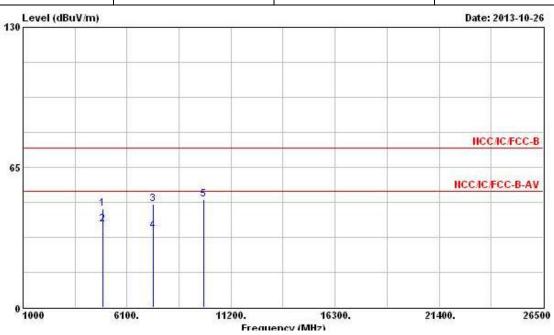
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (111.53 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							

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	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-		deg
1	4924.000	45.56	-28.44	74.00	40.69	34.74	4.79	34.66	Peak		
2	4924.000	38.58	-15.42	54.00	33.71	34.74	4.79	34.66	Average		
3	7386.000	48.01	-25.99	74.00	41.51	35.90	5.57	34.97	Peak		<u> </u>
4	7386.000	35.59	-18.41	54.00	29.09	35.90	5.57	34.97	Average		
5	9848.000	50.08			41.70	37.25	6.50	35.37	Peak		

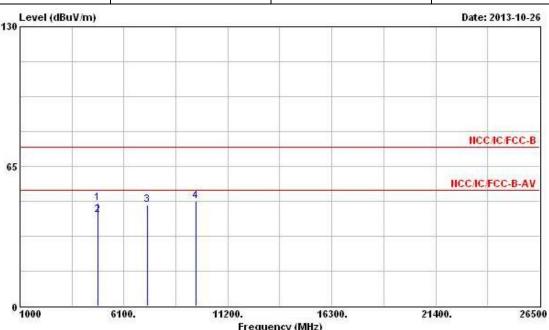
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (111.53 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)	2412						
N _{TX}	1	Polarization	V						

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4824.000	48.05	-25.95	74.00	43.23	34.80	4.70	34.68	Peak		
2	4824.000	42.34	-11.66	54.00	37.52	34.80	4.70	34.68	Average		
3	7236.000	47.19			40.86	35.90	5.37	34.94	Peak	2000	<u> </u>
4	9648.000	48.95			41.00	36.95	6.35	35.35	Peak		

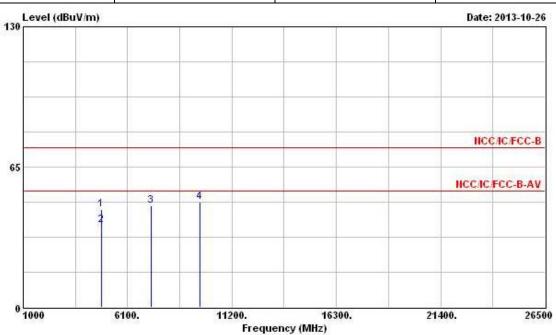
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (114.37 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) 2412									
N_{TX}	1	Polarization	Н						

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	4824.000	45.12	-28.88	74.00	40.30	34.80	4.70	34.68	Peak		
2	4824.000	38.24	-15.76	54.00	33.42	34.80	4.70	34.68	Average		
3	7236.000	47.25			40.92	35.90	5.37	34.94	Peak	202	
4	9648.000	48.84			40.89	36.95	6.35	35.35	Peak		

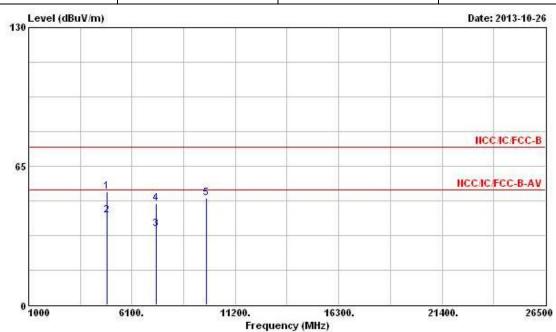
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (114.37 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						

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dВ	-		deg
1	4874.000	52.88	-21.12	74.00	48.05	34.77	4.73	34.67	Peak		
2	4874.000	41.88	-12.12	54.00	37.05	34.77	4.73	34.67	Average		
3	7311.000	35.56	-18.44	54.00	29.14	35.90	5.47	34.95	Average	222	
4	7311.000	47.44	-26.56	74.00	41.02	35.90	5.47	34.95	Peak		
5	9748.000	50.06			41.90	37.11	6.41	35.36	Peak		

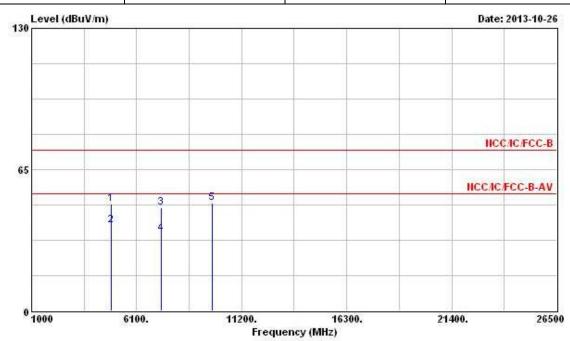
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (118.83 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.: FR391733



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	\$\$	can	deg
1	4874.000	49.38	-24.62	74.00	44.55	34.77	4.73	34.67	Peak		
2	4874.000	39.56	-14.44	54.00	34.73	34.77	4.73	34.67	Average	0.0000	State of the state
3	7311.000	47.39	-26.61	74.00	40.97	35.90	5.47	34.95	Peak		
4	7311.000	35.70	-18.30	54.00	29.28	35.90	5.47	34.95	Average		
5	9748.000	49.69			41.53	37.11	6.41	35.36	Peak	714.4	286

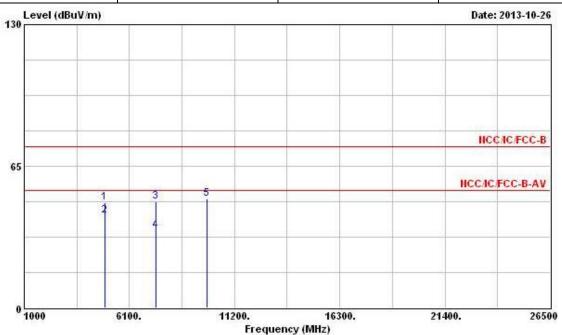
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (118.83 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	V							

Report No.: FR391733



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	4924.000	48.37	-25.63	74.00	43.50	34.74	4.79	34.66	Peak		
2	4924.000	42.45	-11.55	54.00	37.58	34.74	4.79	34.66	Average		
3	7386.000	48.72	-25.28	74.00	42.22	35.90	5.57	34.97	Peak		
4	7386.000	35.47	-18.53	54.00	28.97	35.90	5.57	34.97	Average		
5	9848.000	49.95			41.57	37.25	6.50	35.37	Peak		

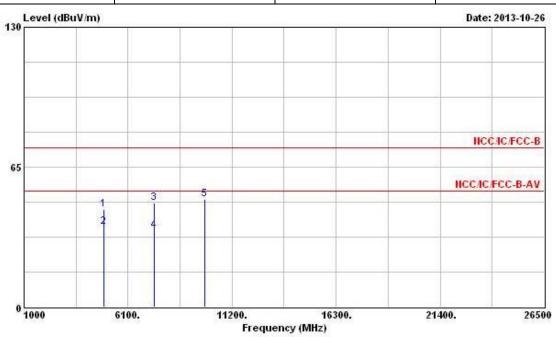
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (113.35 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) 2462										
N _{TX}	1	Polarization	Н							

Report No.: FR391733



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm	deg
1	4924.000	45.34	-28.66	74.00	40.47	34.74	4.79	34.66	Peak		
2	4924.000	37.23	-16.77	54.00	32.36	34.74	4.79	34.66	Average		
3	7386.000	48.30	-25.70	74.00	41.80	35.90	5.57	34.97	Peak	0.000	
4	7386.000	35.65	-18.35	54.00	29.15	35.90	5.57	34.97	Average		
5	9848.000	50.23			41.85	37.25	6.50	35.37	Peak		

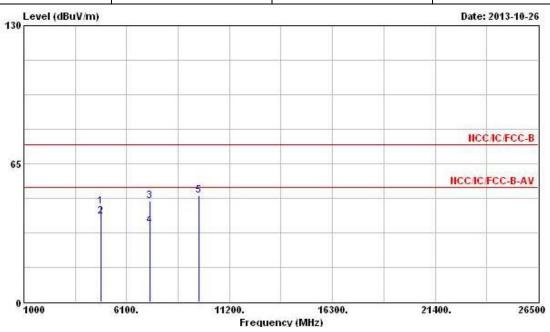
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (113.35 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	Modulation Mode HT40 Test Freq. (MHz) 2422									
N _{TX}	1	Polarization	V							

Report No.: FR391733



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4844.000	44.69	-29.31	74.00	39.85	34.79	4.73	34.68	Peak		
2	4844.000	40.05	-13.95	54.00	35.21	34.79	4.73	34.68	Average		
3	7266.000	47.66	-26.34	74.00	41.28	35.90	5.42	34.94	Peak		
4	7266.000	35.71	-18.29	54.00	29.33	35.90	5.42	34.94	Average		
5	9688.000	50.00			41.98	37.00	6.38	35.36	Peak		

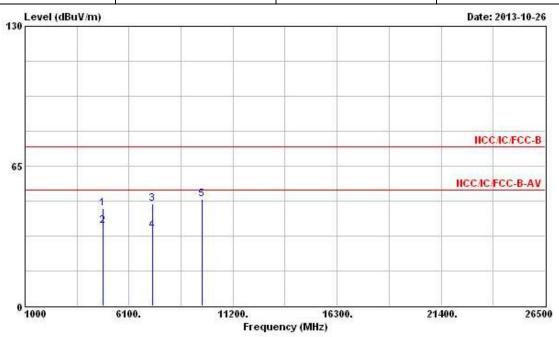
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (110.43 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	Н							

Report No.: FR391733



	Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
	rred	rever	шис	TIME	rever	ractor	LUSS	ractor	Kellark	PUS	PUS
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	* <u> </u>	can	deg
1	4844.000	45.45	-28.55	74.00	40.61	34.79	4.73	34.68	Peak		
2	4844.000	37.37	-16.63	54.00	32.53	34.79	4.73	34.68	Average		
3	7266.000	47.39	-26.61	74.00	41.01	35.90	5.42	34.94	Peak		*************
4	7266.000	35.27	-18.73	54.00	28.89	35.90	5.42	34.94	Average		
5	9688.000	49.80			41.78	37.00	6.38	35.36	Peak	777	777

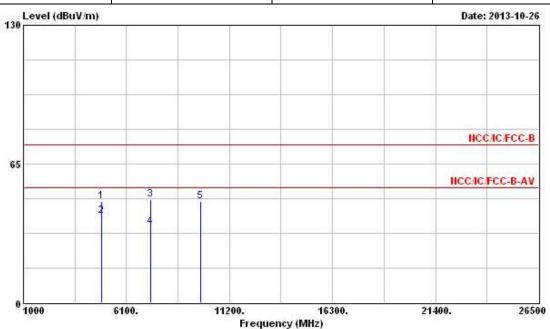
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.43 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)	2437							
N _{TX}	1	Polarization	V							

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			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·	cm.	deg
1	4874.000	47.45	-26.55	74.00	42.62	34.77	4.73	34.67	Peak		
2	4874.000	40.51	-13.49	54.00	35.68	34.77	4.73	34.67	Average		
3	7311.000	48.29	-25.71	74.00	41.87	35.90	5.47	34.95	Peak		
4	7311.000	35.66	-18.34	54.00	29.24	35.90	5.47	34.95	Average		
5	9748.000	47.47			39.31	37.11	6.41	35.36	Peak		

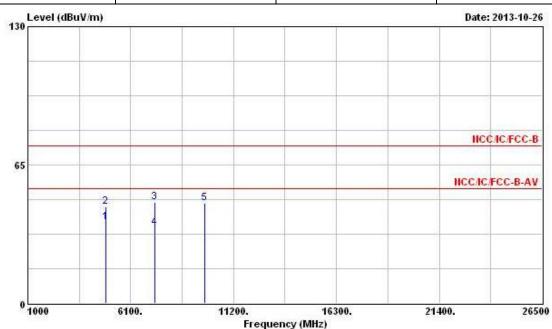
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (112.26 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)	2437							
N _{TX}	1	Polarization	Н							

Report No.: FR391733



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	4874.000	37.99	-16.01	54.00	33.16	34.77	4.73	34.67	Average		
2	4874.000	45.44	-28.56	74.00	40.61	34.77	4.73	34.67	Peak		
3	7311.000	47.64	-26.36	74.00	41.22	35.90	5.47	34.95	Peak	<u> </u>	~ <u>~~~~</u>
4	7311.000	35.33	-18.67	54.00	28.91	35.90	5.47	34.95	Average		
5	9748.000	47.25			39.09	37.11	6.41	35.36	Peak		

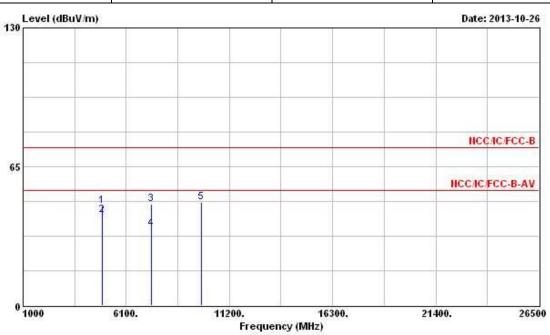
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (112.26 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.: FR391733



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	₫В	dB	<u> </u>	cm	deg
1	4904.000	46.79	-27.21	74.00	41.94	34.75	4.76	34.66	Peak	200	
2	4904.000	42.34	-11.66	54.00	37.49	34.75	4.76	34.66	Average	57,413,13	10000
3	7356.000	47.43	-26.57	74.00	40.97	35.90	5.52	34.96	Peak		
4	7356.000	35.80	-18.20	54.00	29.34	35.90	5.52	34.96	Average		
5	9808.000	48.38			40.07	37.20	6.47	35.36	Peak		

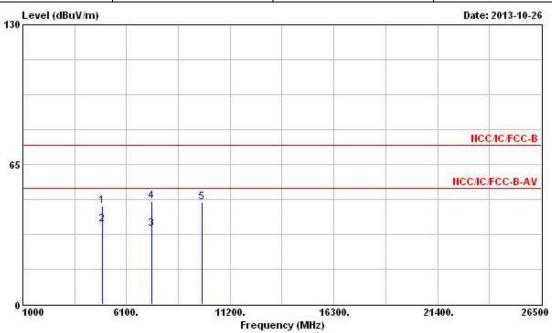
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (108.31 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.: FR391733



	Freq	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
)(II-	dBuV/m		dBuV/m	dBuV	dB/m	dB	dB			deg
	MAZ	CLB CLV / JIL	шь	ubuv/m	ubuv	CLB / JIL	шь	шь		cm	ueg
1	4904.000	45.80	-28.20	74.00	40.95	34.75	4.76	34.66	Peak		
2	4904.000	37.31	-16.69	54.00	32.46	34.75	4.76	34.66	Average		
3	7356.000	35.20	-18.80	54.00	28.74	35.90	5.52	34.96	Average	~	2000
4	7356.000	47.96	-26.04	74.00	41.50	35.90	5.52	34.96	Peak		
5	9808.000	47.66			39.35	37.20	6.47	35.36	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 (108.31 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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 18, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Nov. 09, 2012	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101013	9KHz ~ 40GHz	Jan. 29, 2013	Conducted (TH06-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	Conducted (TH06-HY)
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	10715/4	30MHz ~ 26.5GHz	Dec. 04, 2012	Conducted (TH06-HY)

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

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02364	1GHz ~ 26.5GHz	May 06, 2013	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz ~ 18GHz	Nov. 16, 2012	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 10, 2012	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 10, 2013	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation (03CH02-HY)
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 14, 2012	Radiation (03CH02-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Magnetic Loop Antenna	Teseq GmbH	HLA 6120	31244	0.01MHz ~ 30MHz	Dec. 02, 2012	Radiation (03CH02-HY)

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

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