



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-271-8666

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FCC Test Report

FCC ID : S67WSDE-670GN
Equipment : IEEE802.11b/g/n Wireless LAN module
Model No. : WSDE-670GN
Brand Name : eConais
Applicant : eConais SA
Address : Patras, Science Park, Stadiou Str, Platani,
PATRAS, 26504
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 17, 2013
Tested Date : Apr. 17 ~ Apr. 23, 2013

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager





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Release Record

Report No.	Version	Description	Issued Date
FR341701	Rev. 01	Initial issue	Apr. 25, 2013



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.151MHz 55.03 (Margin 10.93dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 192.96MHz 42.49 (Margin 1.01dB) - QP	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11b: 19.62 11g: 21.89 HT20: 21.16	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass



1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
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 Details

Ant. No.	Type	Gain (dBi)	Connector	Remark
1	CHIP	0.5	---	---

1.1.3 EUT Operational Condition

Supply Voltage	<input type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input type="checkbox"/> External DC adapter	<input checked="" type="checkbox"/> From Host



1.1.4 Accessories

N/A

1.1.5 Channel List

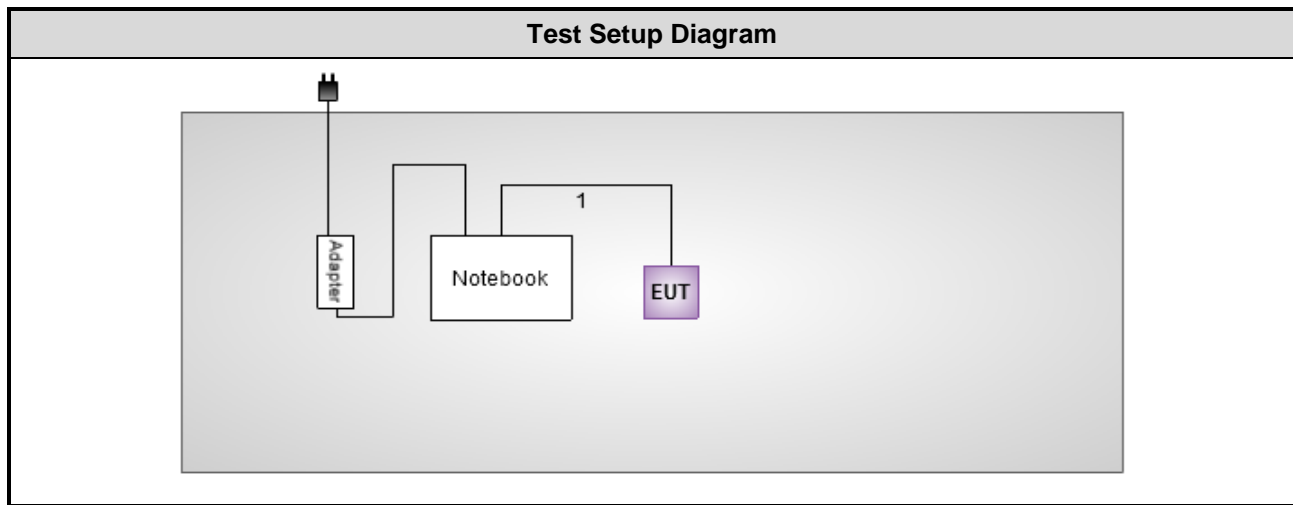
Frequency band (MHz)	
802.11 b / g / n HT20	
Channel	Frequency(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

1.1.6 Test Tool and Duty Cycle

Test tool	RF Test V1.0
Duty Cycle Of Test Signal (%)	98.68% - IEEE 802.11b 86.58% - IEEE 802.11g 84.62% - IEEE 802.11n (HT20)
Duty Factor	0.06 - IEEE 802.11b 0.63 - IEEE 802.11g 0.73 - IEEE 802.11n (HT20)



1.2 Test Setup Chart



1.3 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Length (m)
1	Notebook	DELL	E5420	---	DoC	USB 1.8m non-shielded cable w/o core



1.4 The Equipment List

EMI	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Dec. 12, 2012	Dec. 11, 2013
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013
ISN	TESEQ	ISN T800	23342	Feb. 17, 2013	Feb. 16, 2014
ISN	TESEQ	ISN T400	21653	Jun. 22, 2012	Jun. 21, 2013
ISN	TESEQ	ISN T8-Cat6	27262	Sep. 17, 2012	Sep. 16, 2013
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
ESH3-Z6 V-Network	R&S	ESH3-Z6	100920	Nov. 21, 2012	Nov. 20, 2013
Note: Calibration Interval of instruments listed above is one year.					

EMI	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
3m semi-anechoic chamber	RIKEN	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	ROHDE&SCHWARZ	ESR3	101658	Jan. 30, 2013	Jan. 29, 2014
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					



RF	RF Conducted				
Test Site	RF Conducted (TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101486	Nov. 14, 2012	Nov. 13, 2013
Spectrum Analyzer	R&S	FSP 40	100593	Aug. 14, 2012	Aug. 13, 2013
DC Power Source	G.W.	GPC-6030D	C671845	Jun. 19, 2012	Jun. 18, 2013
AC Power Source	G.W.	APS-9102	EL920581	Jul. 02, 2012	Jul. 01, 2013
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	Nov. 21, 2012	Nov. 20, 2013
Signal Generator	R&S	SMR40	100116	Jun. 26, 2012	Jun. 25, 2013
Power Sensor	Anritsu	MA2411B	1027452	Sep. 08, 2012	Sep. 07, 2013
Power Meter	Anritsu	ML2495A	1124009	Sep. 08, 2012	Sep. 07, 2013
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	NA	NA
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	NA	NA

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 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 ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 35.286 Hz
Conducted power	± 0.536 dB
Frequency error	± 35.286 Hz
Temperature	± 0.3 °C
AC conducted emission	± 2.43 dB
Radiated emission	± 2.49 dB



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	23°C / 55%	Skys Huang
Radiated Emissions	03CH01-WS	25°C / 65%	Aska Huang
RF Conducted	TH01-WS	23°C / 61%	Felix Sung

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

The Worst Test Modes and Channel Details	
Test Item(s)	Conducted Emissions
Modulation, Data rate	11g/6Mbps
Test channel (MHz)	2437
Test Mode	Operating Mode Description
-	Normal Operating Condition

The Worst Test Modes and Channel Details	
Test Item(s)	Fundamental Emission Output Power 6dB bandwidth Power spectral density
Modulation, Data rate	11b/1Mbps, 11g/6Mbps, HT20/MCS 0
Test channel (MHz)	2412, 2437, 2462
Test Mode	Operating Mode Description
-	Normal Operating Condition



The Worst Test Modes and Channel Details	
Test Item(s)	Radiated emission (below 1GHz)
Modulation, Data rate	11g/6Mbps
Test channel (MHz)	2437
Test Mode	Operating Mode Description
-	Normal Operating Condition
Test Item(s)	Radiated emission (above 1GHz)
Modulation, Data rate	11b/1Mbps, 11g/6Mbps, HT20/MCS 0
Test channel (MHz)	2412, 2437, 2462
Test Mode	Operating Mode Description
-	Normal Operating Condition
NOTE:	
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.	



3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

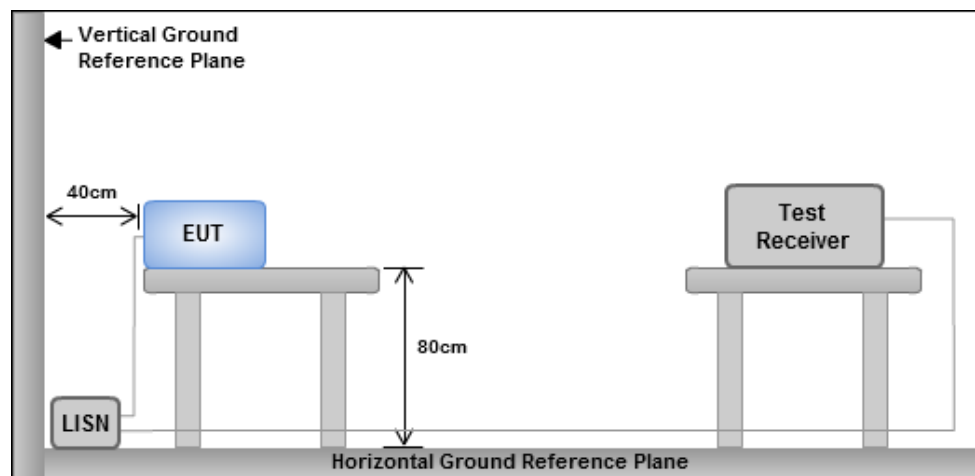
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.

3.1.3 Test Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes



3.1.4 Test Result of Conducted Emissions

Power Phase	Line	Test Freq. (MHz)	2437
Test Mode	-		

Level (dBuV) Date: 2013-04-23

Frequency (MHz)

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.151	41.95	55.96	-14.01	41.86	0.03	0.06	Average
2	0.151	55.03	65.96	-10.93	54.94	0.03	0.06	QP
3	0.163	24.71	55.30	-30.59	24.58	0.03	0.10	Average
4	0.163	52.14	65.30	-13.16	52.01	0.03	0.10	QP
5	0.479	30.28	46.36	-16.08	30.20	0.03	0.05	Average
6	0.479	36.00	56.36	-20.36	35.92	0.03	0.05	QP
7	2.261	27.69	46.00	-18.31	27.47	0.05	0.17	Average
8	2.261	32.40	56.00	-23.60	32.18	0.05	0.17	QP
9	7.977	25.69	50.00	-24.31	25.46	0.09	0.14	Average
10	7.977	27.51	60.00	-32.49	27.28	0.09	0.14	QP
11	15.552	22.91	50.00	-27.09	22.66	0.11	0.14	Average
12	15.552	27.89	60.00	-32.11	27.64	0.11	0.14	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



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Power Phase	Neutral	Test Freq. (MHz)	2437
Test Mode	-		

Level (dBuV)

Date: 2013-04-23

Frequency (MHz)

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.152	40.08	55.87	-15.79	39.99	0.02	0.07	Average
2	0.152	54.38	65.87	-11.49	54.29	0.02	0.07	QP
3	0.161	39.44	55.43	-15.99	39.33	0.02	0.09	Average
4	0.161	52.46	65.43	-12.97	52.35	0.02	0.09	QP
5	0.469	25.70	46.54	-20.84	25.63	0.02	0.05	Average
6	0.469	33.82	56.54	-22.72	33.75	0.02	0.05	QP
7	2.249	29.12	46.00	-16.88	28.91	0.04	0.17	Average
8	2.249	32.23	56.00	-23.77	32.02	0.04	0.17	QP
9	7.606	24.03	50.00	-25.97	23.80	0.08	0.15	Average
10	7.606	28.31	60.00	-31.69	28.08	0.08	0.15	QP
11	15.552	21.38	50.00	-28.62	21.13	0.11	0.14	Average
12	15.552	27.83	60.00	-32.17	27.58	0.11	0.14	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

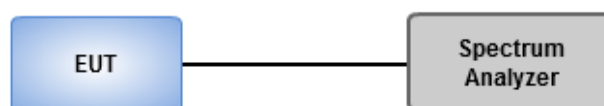
Procedure for 6 dB bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Procedure for Occupied bandwidth

1. Set resolution bandwidth (RBW) = 300 kHz, Video bandwidth = 1 MHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use OBW measurement function of spectrum analyzer to measure 99% occupied bandwidth.

3.2.3 Test Setup

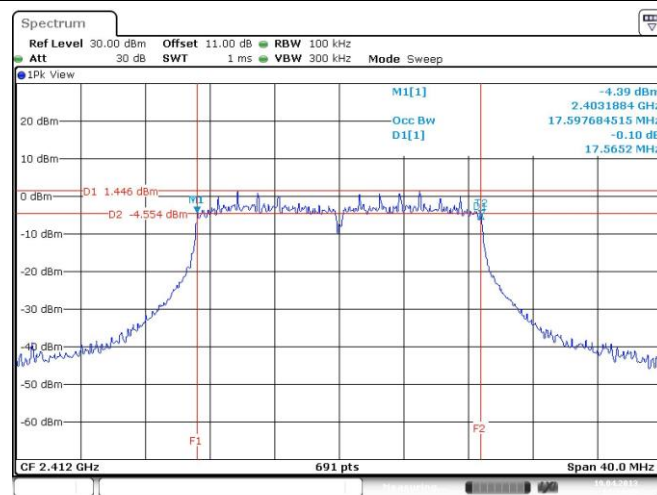




3.2.4 Test Result of Emission Bandwidth

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	10.087	---	---	---	500
11b	1	2437	10.087	---	---	---	500
11b	1	2462	10.087	---	---	---	500
11g	1	2412	16.348	---	---	---	500
11g	1	2437	16.348	---	---	---	500
11g	1	2462	16.348	---	---	---	500
HT20	1	2412	17.565	---	---	---	500
HT20	1	2437	17.275	---	---	---	500
HT20	1	2462	17.333	---	---	---	500

Worst Plots

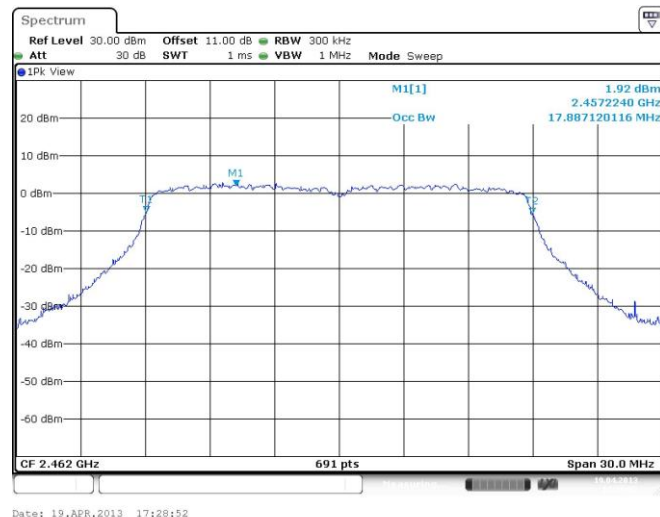


Date: 19.APR.2013 17:24:54



Modulation Mode	N _{TX}	Freq. (MHz)	Occupied Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	14.718	---	---	---	N/A
11b	1	2437	14.718	---	---	---	N/A
11b	1	2462	14.761	---	---	---	N/A
11g	1	2412	17.062	---	---	---	N/A
11g	1	2437	17.192	---	---	---	N/A
11g	1	2462	17.192	---	---	---	N/A
HT20	1	2412	17.887	---	---	---	N/A
HT20	1	2437	17.887	---	---	---	N/A
HT20	1	2462	17.887	---	---	---	N/A

Worst Plots





3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

☐ Antenna gain $> 6\text{dBi}$

☐ Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

☐ Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

☒ Maximum Peak Conducted Output Power

☐ **Spectrum analyzer**

1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

☒ **Power meter**

1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than 6dB bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

☐ Maximum Conducted Output Power

☐ **Spectrum analyzer**

1. Set RBW = 1MHz, VBW = 3MHz, Detector = RMS.
2. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
3. Perform the measurement over a single sweep.
4. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW(26dBc) band edges.

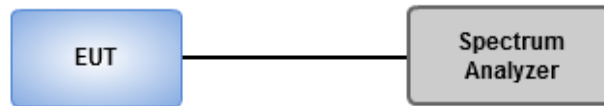
☐ **Power meter**

1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than 6dB bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

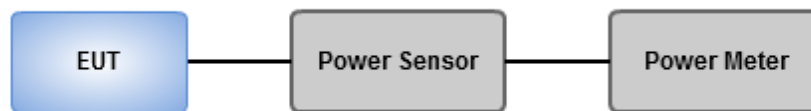


3.3.3 Test Setup

☐ RF Output Power (Spectrum Analyzer)



☒ RF Output Power (Power Meter)



3.3.4 Test Result of Maximum Output Power

Modulation Mode	N _{TX}	Freq. (MHz)	Peak Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	1	2412	19.62	---	---	---	91.62	19.62	30
11b	1	2437	19.30	---	---	---	85.11	19.30	30
11b	1	2462	19.37	---	---	---	86.50	19.37	30
11g	1	2412	21.86	---	---	---	153.46	21.86	30
11g	1	2437	21.89	---	---	---	154.53	21.89	30
11g	1	2462	21.68	---	---	---	147.23	21.68	30
HT20	1	2412	21.16	---	---	---	130.62	21.16	30
HT20	1	2437	20.65	---	---	---	116.14	20.65	30
HT20	1	2462	20.12	---	---	---	102.80	20.12	30



3.4 Power Spectral Density

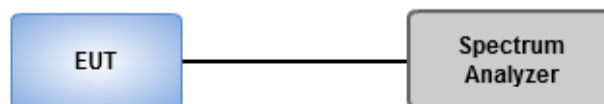
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 3kHz, VBW = 10kHz.
 2. Detector = Peak, Sweep time = auto couple.
 3. Trace mode = max hold, allow trace to fully stabilize.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 4. Perform the measurement over a single sweep.
 5. Use the peak marker function to determine the maximum amplitude level.\

3.4.3 Test Setup

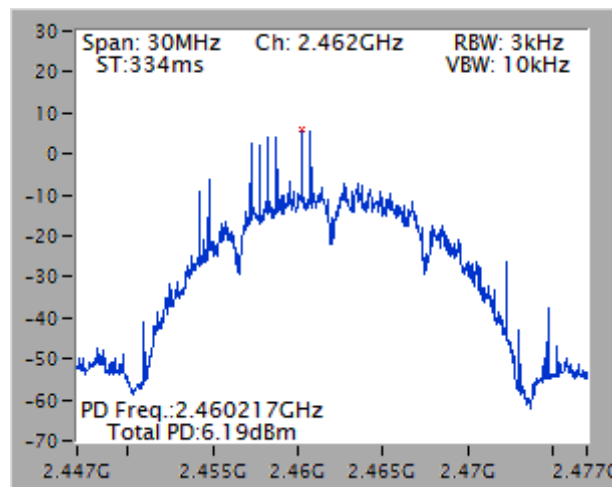




3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	1	2412	5.80	8
11b	1	2437	2.07	8
11b	1	2462	6.25	8
11g	1	2412	-7.47	8
11g	1	2437	-7.07	8
11g	1	2462	-7.71	8
HT20	1	2412	-7.43	8
HT20	1	2437	-8.43	8
HT20	1	2462	-8.01	8

Worst Plots



Note: Power Spectral Density Plots w/o Duty Factor.



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

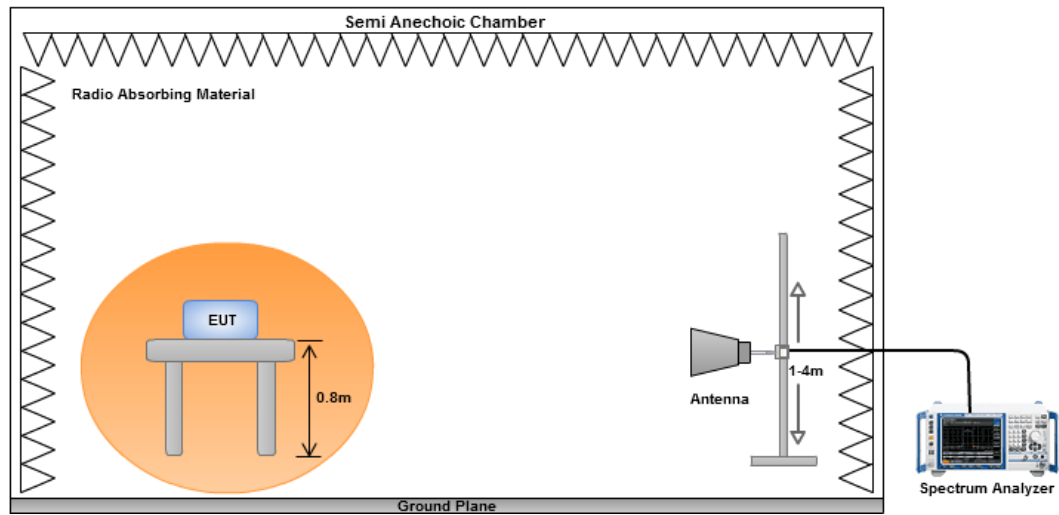
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW>=1/T and Peak detector is for average measured value of radiated emission above 1GHz.



3.5.3 Test Setup





3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Polarization	Horizontal		Test Freq. (MHz)		2437																																																																							
Test Mode	-																																																																											
<div><p>The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 1000 MHz, and 55 dBuV/m from 1000 to 10000 MHz. Six test results are plotted as blue vertical lines, labeled 1 through 6. The test results are as follows:</p><table><tr><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>106.63</td><td>35.96</td><td>43.50</td><td>-7.54</td><td>56.50</td><td>-20.54</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>192.96</td><td>42.49</td><td>43.50</td><td>-1.01</td><td>61.63</td><td>-19.14</td><td>QP</td><td>---</td><td>---</td></tr><tr><td>278.37</td><td>44.23</td><td>46.00</td><td>-1.77</td><td>60.96</td><td>-16.73</td><td>QP</td><td>---</td><td>---</td></tr><tr><td>342.34</td><td>42.94</td><td>46.00</td><td>-3.06</td><td>58.04</td><td>-15.10</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>385.99</td><td>40.56</td><td>46.00</td><td>-5.44</td><td>54.58</td><td>-14.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>580.96</td><td>38.48</td><td>46.00</td><td>-7.52</td><td>48.59</td><td>-10.11</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>							Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	106.63	35.96	43.50	-7.54	56.50	-20.54	Peak	---	---	192.96	42.49	43.50	-1.01	61.63	-19.14	QP	---	---	278.37	44.23	46.00	-1.77	60.96	-16.73	QP	---	---	342.34	42.94	46.00	-3.06	58.04	-15.10	Peak	---	---	385.99	40.56	46.00	-5.44	54.58	-14.02	Peak	---	---	580.96	38.48	46.00	-7.52	48.59	-10.11	Peak	---	---							
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																				
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Polarization	Vertical		Test Freq. (MHz)		2437																																																																									
Test Mode	-																																																																													
<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><table><tr><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th></th><th></th></tr><tr><td>1</td><td>63.95</td><td>34.65</td><td>40.00</td><td>-5.35</td><td>52.71</td><td>-18.06</td><td>Peak</td><td>---</td></tr><tr><td>2</td><td>191.99</td><td>35.52</td><td>43.50</td><td>-7.98</td><td>54.65</td><td>-19.13</td><td>Peak</td><td>---</td></tr><tr><td>3</td><td>342.34</td><td>39.56</td><td>46.00</td><td>-6.44</td><td>54.66</td><td>-15.10</td><td>Peak</td><td>---</td></tr><tr><td>4</td><td>385.02</td><td>39.86</td><td>46.00</td><td>-6.14</td><td>53.90</td><td>-14.04</td><td>Peak</td><td>---</td></tr><tr><td>5</td><td>580.96</td><td>36.93</td><td>46.00</td><td>-9.07</td><td>47.04</td><td>-10.11</td><td>Peak</td><td>---</td></tr><tr><td>6</td><td>866.14</td><td>38.56</td><td>46.00</td><td>-7.44</td><td>44.49</td><td>-5.93</td><td>Peak</td><td>---</td></tr></table></div>							Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB				1	63.95	34.65	40.00	-5.35	52.71	-18.06	Peak	---	2	191.99	35.52	43.50	-7.98	54.65	-19.13	Peak	---	3	342.34	39.56	46.00	-6.44	54.66	-15.10	Peak	---	4	385.02	39.86	46.00	-6.14	53.90	-14.04	Peak	---	5	580.96	36.93	46.00	-9.07	47.04	-10.11	Peak	---	6	866.14	38.56	46.00	-7.44	44.49	-5.93	Peak	---
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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Polarization	Horizontal		Test Freq. (MHz)		2412	
Test Mode	-					
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>6</div></div></div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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Polarization	Vertical	Test Freq. (MHz)	2412																																																																																										
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International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-271-8666

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3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

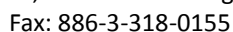
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Polarization	Horizontal		Test Freq. (MHz)		2462				
Test Mode	-								
<div><p>The graph displays the emission level in dBuV/m on the y-axis (0 to 117) against frequency in MHz on the x-axis (1000 to 25000). Two horizontal red lines represent the FCC CLASS-B limit at approximately 74 dBuV/m and the FCC CLASS-B (AVG) limit at approximately 54 dBuV/m. Six vertical blue lines with labels 1 through 6 indicate specific measurement points. Line 1 is at 2483.50 MHz (Average), line 2 is at 2483.50 MHz (Peak), line 3 is at 4924.00 MHz (Average), line 4 is at 4924.00 MHz (Peak), line 5 is at 7386.00 MHz (Average), and line 6 is at 7386.00 MHz (Peak).</p></div>									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	38.63	54.00	-15.37	41.46	-2.83	Average	---	---
2	2483.50	58.80	74.00	-15.20	61.63	-2.83	Peak	---	---
3	4924.00	34.03	54.00	-19.97	29.55	4.48	Average	---	---
4	4924.00	45.85	74.00	-28.15	41.37	4.48	Peak	---	---
5	7386.00	36.58	54.00	-17.42	27.60	8.98	Average	---	---
6	7386.00	48.60	74.00	-25.40	39.62	8.98	Peak	---	---
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: 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.</p> <p>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</p>									



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

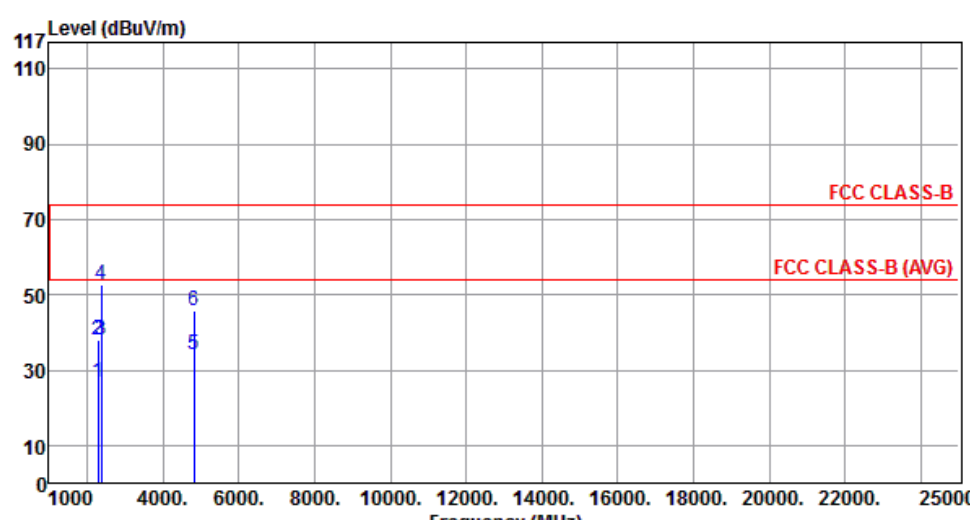
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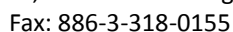
Fax: 886-3-318-0155

Polarization	Vertical		Test Freq. (MHz)		2462																																																																																	
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3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Polarization	Horizontal		Test Freq. (MHz)		2412																																																																																											
Test Mode	-																																																																																															
<div></div> <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2288.00</td><td>26.82</td><td>54.00</td><td>-27.18</td><td>30.43</td><td>-3.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>2288.00</td><td>37.81</td><td>74.00</td><td>-36.19</td><td>41.42</td><td>-3.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>2390.00</td><td>38.11</td><td>54.00</td><td>-15.89</td><td>41.33</td><td>-3.22</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>2390.00</td><td>52.55</td><td>74.00</td><td>-21.45</td><td>55.77</td><td>-3.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>4824.00</td><td>33.97</td><td>54.00</td><td>-20.03</td><td>29.66</td><td>4.31</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>4824.00</td><td>45.85</td><td>74.00</td><td>-28.15</td><td>41.54</td><td>4.31</td><td>Peak</td><td>---</td><td>---</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table						dBuV			cm	deg	1	2288.00	26.82	54.00	-27.18	30.43	-3.61	Average	---	---	2	2288.00	37.81	74.00	-36.19	41.42	-3.61	Peak	---	---	3	2390.00	38.11	54.00	-15.89	41.33	-3.22	Average	---	---	4	2390.00	52.55	74.00	-21.45	55.77	-3.22	Peak	---	---	5	4824.00	33.97	54.00	-20.03	29.66	4.31	Average	---	---	6	4824.00	45.85	74.00	-28.15	41.54	4.31	Peak	---	---
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Polarization	Vertical	Test Freq. (MHz)	2437																																																																																																
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3	4874.00	33.92	54.00	-20.08	29.53	4.39	Average	---	---																																																																																										
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5	7311.00	36.21	54.00	-17.79	27.29	8.92	Average	---	---																																																																																										
6	7311.00	48.92	74.00	-25.08	40.00	8.92	Peak	---	---																																																																																										
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: 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.</p> <p>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</p>																																																																																																			



Polarization	Horizontal			Test Freq. (MHz)		2462																																																																									
Test Mode	-																																																																														
<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p></div> <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2483.50</td><td>37.90</td><td>54.00</td><td>-16.10</td><td>40.73</td><td>-2.83</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>2483.50</td><td>51.82</td><td>74.00</td><td>-22.18</td><td>54.65</td><td>-2.83</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>4924.00</td><td>34.17</td><td>54.00</td><td>-19.83</td><td>29.69</td><td>4.48</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>4924.00</td><td>45.72</td><td>74.00</td><td>-28.28</td><td>41.24</td><td>4.48</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>7386.00</td><td>36.53</td><td>54.00</td><td>-17.47</td><td>27.55</td><td>8.98</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>7386.00</td><td>48.46</td><td>74.00</td><td>-25.54</td><td>39.48</td><td>8.98</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	2483.50	37.90	54.00	-16.10	40.73	-2.83	Average	---	---	2	2483.50	51.82	74.00	-22.18	54.65	-2.83	Peak	---	---	3	4924.00	34.17	54.00	-19.83	29.69	4.48	Average	---	---	4	4924.00	45.72	74.00	-28.28	41.24	4.48	Peak	---	---	5	7386.00	36.53	54.00	-17.47	27.55	8.98	Average	---	---	6	7386.00	48.46	74.00	-25.54	39.48	8.98	Peak	---	---
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2	2483.50	51.82	74.00	-22.18	54.65	-2.83	Peak	---	---																																																																						
3	4924.00	34.17	54.00	-19.83	29.69	4.48	Average	---	---																																																																						
4	4924.00	45.72	74.00	-28.28	41.24	4.48	Peak	---	---																																																																						
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Polarization	Vertical			Test Freq. (MHz)			2462																																																																								
Test Mode	-																																																																														
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	2483.50	36.61	54.00	-17.39	39.44	-2.83	Average	---	---																																																																						
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3.6 Unwanted Emissions into Non-Restricted Frequency Bands

3.6.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

- ☒ The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.
- ☐ The peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

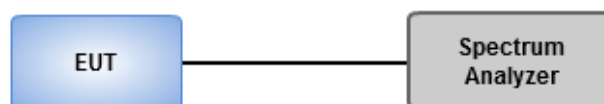
Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

Unwanted Emissions Level Measurement

1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

3.6.3 Test Setup





3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

Transmitter Radiated Bandedge Emissions Result								
Modulation	11b			N _{TX}	1			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	96.59	2398.48	53.53	43.06	20	PK	H
2390-2400	2412	96.48	2398.03	54.17	42.31	20	PK	V
2500-2690	2462	97.69	2507.8	35.51	62.18	20	PK	H
2500-2690	2462	99.11	2502.1	36.98	62.13	20	PK	V
Low Bandedge - H				Up Bandedge - H				
Low Bandedge - V				Up Bandedge - V				
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical)								



3.6.5 Unwanted Emissions into Non-Restricted Frequency Bands

Transmitter Radiated Bandedge Emissions Result								
Modulation	11g			N _{TX}	1			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	89.02	2400	56.17	32.85	20	PK	H
2390-2400	2412	89.96	2400	56.48	33.48	20	PK	V
2500-2690	2462	92.21	2500	37.69	54.52	20	PK	H
2500-2690	2462	88.28	2512.7	35.96	52.32	20	PK	V
Low Bandedge - H				Up Bandedge - H				
Low Bandedge - V				Up Bandedge - V				
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical)								



3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT20			N _{TX}	1			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	90.51	2400	54.87	35.64	20	PK	H
2390-2400	2412	89.66	2399.94	53.94	35.72	20	PK	V
2500-2690	2462	90.37	2502	36.94	53.43	20	PK	H
2500-2690	2462	89.09	2535.3	36.45	52.64	20	PK	V
Low Bandedge - H				Up Bandedge - H				
Low Bandedge - V				Up Bandedge - V				
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical)								