



TEST REPORT

Report Reference No:	TRE1506012801 R/C		
FCC ID:	2AAP6M1065		
Applicant's name:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.		
Address	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA		
Manufacturer	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.		
Address	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA		
Test item description:	Tablet PC		
Trade Mark	DOPO ,INSIGNIA,MEDION,Micromax,INCO,HAIER,gto,NOBIS, NUVISION,APEX		
Model/Type reference:	M1065		
Listed Model(s)	DPW10A-BT,NS-P10W6100, PT1065, S1065T, PC'TAB1065, P667A, Duplet III, W1058,NB1065, TM101W540L,TM101W545L		
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
	June 19, 2015		
Date of receipt of test sample	June 19, 2015		
Date of receipt of test sample	June 19, 2015 June 19, 2015- Aug 20, 2015		
Date of testing	June 19, 2015- Aug 20, 2015		
Date of testing	June 19, 2015- Aug 20, 2015 Aug 21, 2015		
Date of testing Date of issue Result Compiled by	June 19, 2015- Aug 20, 2015 Aug 21, 2015 PASS		
Date of testing Date of issue Result Compiled by (position+printedname+signature):	June 19, 2015- Aug 20, 2015 Aug 21, 2015 PASS File administrators Candy Liu		
Date of testing Date of issue Result Compiled by (position+printedname+signature): Supervised by	June 19, 2015- Aug 20, 2015 Aug 21, 2015 PASS File administrators Candy Liu Project Engineer Lion Cai		
Date of testing Date of issue Result Compiled by (position+printedname+signature): Supervised by (position+printedname+signature):	June 19, 2015- Aug 20, 2015 Aug 21, 2015 PASS File administrators Candy Liu		
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. APPLICABLE STANDARDS ANDTEST DESCRIPTION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: AmericanNationalStandardforTestingUnlicensedWirelessDevices

<u>KDB558074 D01 V03R02</u>: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS)

1.2. Test Description

ReportSection	Test Item	FCC Rule	Result
4.1	Antenna requirement	15.203/15.247 (c)	Pass
4.2	Line Conducted Emission (AC Main)	15.207	Pass
4.3	Conducted Peak Output Power	15.247 (b)(3)	Pass
4.4	Power Spectral Density	15.247 (e)	Pass
4.5	6dB Bandwidth	15.247 (a)(2)	Pass
4.6	Restricted band	15.247(d)/15.205	Pass
4.7/4.8	Spurious Emission	15.247(d)/15.209	Pass

Remark: The measurement uncertainty is not included in the test result.

2. SUMMARY

2.1. Client Information

Applicant:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA
Manufacturer:	SHENZHEN ZOWEE TECHNOLOGY CO., LTD.
Address:	Science &Technology Industrial Park of Privately Owned Enterprises, Pingshan, Xili, Nanshan District, Shenzhen, PR CHINA

2.2. Product Description

Name of EUT	Tablet PC
Trade Mark:	DOPO ,INSIGNIA,MEDION,Micromax,INCO,HAIER,gto,NOBIS,NUVISION, APEX
Model No.:	M1065
Listed Model(s):	DPW10A-BT,NS-P10W6100, PT1065, S1065T, PC'TAB1065, P667A, Duplet III, W1058,NB1065, TM101W540L,TM101W545L
Power supply:	DC3.70V From internal battery
Adapter information:	Model:NBS24J120150VU Input:100-240Va.c., 50/60Hz, 0.6A Output: 12.0Vd.c.,1.5A
WIFI	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n(H20)/n(H40): OFDM (BPSK / QPSK / 16QAM / 64QAM)
Operation frequency:	802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/g/n(H20): 11 802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	4.84dBi

Remark:There are two ways for connecting product's battery and trumpet ,one way is use the soctor like case A,the other is change to weld directly like case B which have no obvious effect for the products' RF performance, All others are same.

2.3. Operation state

Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g/n(H20)		802.11n(H40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	01	
02	2417	02	
03	2422	03	2422
÷	:	:	:
06	2437	06	2442
÷	÷	:	÷
09	2452	09	2452
10	2457	10	
11	2462	11	

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	datarate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps (MCS0)
802.11n(H40)	13.5Mbps (MCS0)

• <u>Test mode</u>

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- \bigcirc supplied by the lab

0	PowerCable	Length (m) :	/
		Shield :	/
		Detachable :	/
0	Multimeter	Manufacturer :	/
		Model No. :	/

2.5. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming) Address: Bldg3, Hongfa Hi-tech Industrial Park, Genyu Road, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2015.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date Jul. 01, 2012, valid time is until Jun. 01, 2015.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478, Renewal date July 18, 2014, valid time is until July. 18, 2017.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

IC-Registration No.: 5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on September 3, 2014, valid time is until September 3, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

Condu	Conducted Emission (AC Main)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2014/11/01
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2014/11/01
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2014/11/01
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

3.3. Equipments Used during the Test

	Ited Emission		I	L	
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2014/11/01
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2014/11/01
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2014/11/01
8	Amplifer	Sonoma	310N	E009-13	2014/11/01
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2014/11/01
10	High pass filter	Compliance Direction systems	BSU-6	34202	2014/11/01
11	HORNANTENNA	ShwarzBeck	9120D	1012	2014/11/01
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2014/11/01
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2014/11/01
14	TURNTABLE	MATURO	TT2.0		N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2014/11/01
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2014/11/01

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RFEmission / Spurious RF Conducted EmissionItemTest EquipmentManufacturerModel No.Serial No.Last CalSpectrum AnalyzerRohde&SchwarzFSP1164.4391.402014/11/01

The Cal.Interval was one year

3.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibility Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4. TEST CONDITIONS AND RESULTS

4.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

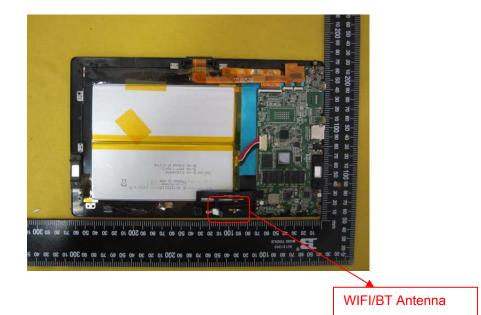
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The antenna is integral antenna, the best case gain of the antenna is 4.84dBi.



4.2. Conducted Emission (AC Main)

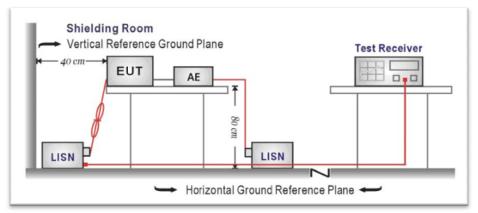
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (d	BuV)
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

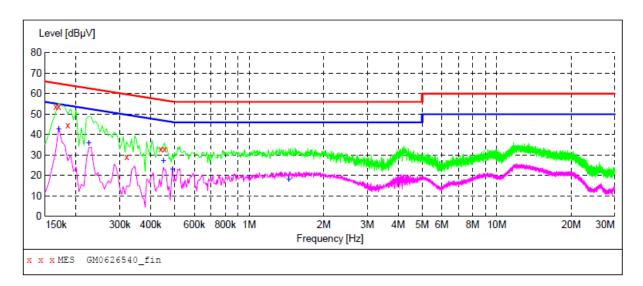


TEST PROCEDURE

- 1. The EUT was setup according to to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above theconducting ground plane. The vertical conducting plane was located 40 cm to the rear of theEUT. All other surfaces of EUT were at least 80 cm from any other grounded conductingsurface.
- 3. The EUT and simulators are connected to the main power through a line impedancestabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were foldedback and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHzusing a receiver bandwidth of 9 kHz.

TEST RESULTS

```
Test mode:AC 120V WIFI Polarization L
```



MEASUREMENT RESULT: "GM0626540 fin"

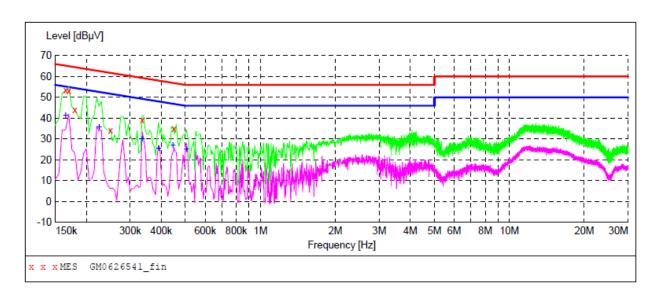
6/26/2015 5:28PM Frequency Level Transd Limit Margin Detector Line PE dB MHz dBµV dB dBµV 0.16500053.8010.2650.17000053.5010.2650.18500044.5010.2640.32000029.2010.2600.44000033.1010.2570.45500032.8010.257 11.4 QP L1 GND 11.5 QP L1 GND 19.8 QP L1 GND 30.5 QP 24.0 QP 24.0 QP L1 L1 GND GND L1 GND

MEASUREMENT RESULT: "GM0626540 fin2"

6/26/2015 5:28PM

Frequency MHz	Level dBµV		Margin dB	Detector	Line	PE
0.170000 0.225000 0.450000 0.490000 1.445000	42.90 36.00 27.30 23.00 18.30	55 53 47 46 46	16.6 19.6 23.2	AV AV AV	L1 L1 L1 L1 L1	GND GND GND GND GND

```
Test mode: AC 120V WIFI Polarization N
```



MEASUREMENT RESULT: "GM0626541 fin"

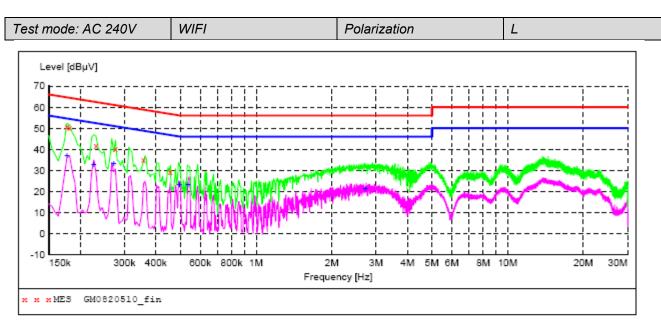
6/26/2015 5:31PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.165000 0.170000 0.180000 0.250000 0.335000 0.450000	53.40 53.20 44.20 34.20 39.10 35.10	10.2 10.2 10.2 10.2 10.2 10.2	65 65 62 59 57	11.8 11.8 20.3 27.6 20.2 21.8	QP QP	N N N N N	GND GND GND GND GND GND

MEASUREMENT RESULT: "GM0626541 fin2"

6/26/2015 5:31PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.165000 41.30 10.2 55 13.9 AV Ν GND 0.225000 35.90 10.2 53 16.7 AV Ν GND 0.33500030.0010.2490.39000025.5010.2480.44500027.0010.2470.50500025.2010.246 30.00 19.3 AV Ν GND 22.6 AV 20.0 AV 20.8 AV Ν GND Ν GND Ν GND

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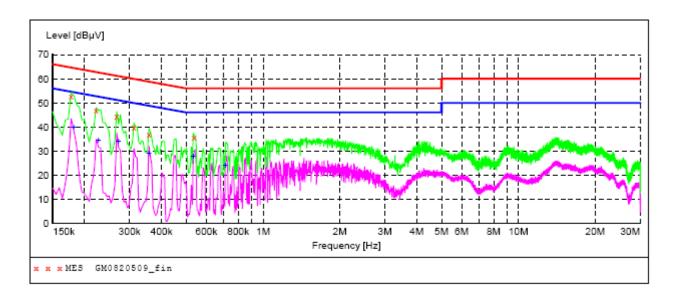
MEASUREMENT RESULT: "GM0820510 fin"

8/20/2015 1:2	3 PM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000 0.181500 0.231000 0.276000 0.357000 0.456000	50.70 50.30 41.60 40.30 35.30 29.30	10.2 10.2 10.2 10.2 10.2 10.2 10.2	65 64 61 59 57	13.9 14.1 20.8 20.6 23.5 27.5	QP QP QP QP QP OP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

MEASUREMENT RESULT: "GM0820510 fin2"

8/20/2015 1:23PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.177000 37.20 10.2 17.4 AV GND 55 L1 53 32.90 10.2 0.226500 19.7 AV L1GND 0.271500 33.20 10.2 17.9 AV GND 51 L110.2 46 10.2 46 10.3 46 0.496500 23.30 22.8 AV L1GND 22.9 AV 24.5 AV 0.537000 23.10 L1 GND 2.719500 21.50 L1GND

```
Test mode: AC 240V WIFI Polarization N
```



MEASUREMENT RESULT: "GM0820509_fin"

8/20/2015 1:13PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000 0.222000 0.267000 0.312000 0.357000 0.537000	52.80 46.80 44.30 39.70 37.10 35.70	10.2 10.2 10.2 10.2 10.2 10.2	65 63 61 59 56	11.8 15.9 16.9 20.2 21.7 20.3	QP QP QP QP QP QP	N N N N N	GND GND GND GND GND GND

MEASUREMENT RESULT: "GM0820509 fin2"

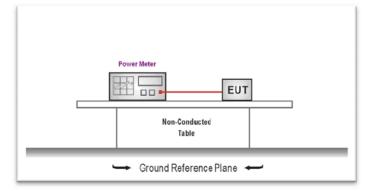
8/20/2015 1:13 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.181500 0.226500 0.271500 0.357000 0.532500 0.712500	39.90 34.40 34.20 29.20 27.70 24.10	10.2 10.2 10.2 10.2 10.2 10.2	54 53 51 49 46 46	16.9	AV AV AV AV AV AV	N N N N	GND GND GND GND GND GND

4.3. Conducted Peak Output Power

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10: 2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

TEST RESULTS

Туре	Channel	Output power (dBm)	Limit (dBm)	Result
	01	15.25		
802.11b	06	15.26	30.00	Pass
	11	14.87		
	01	15.24		
802.11g	06	14.90	30.00	Pass
	11	14.99		
	01	14.88		
802.11n(H20)	06	14.91	30.00	Pass
	11	14.52		
	03	14.37		
802.11n(H40)	06	14.27	30.00	Pass
	09	14.53		

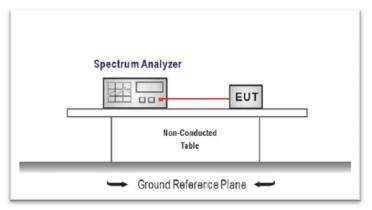
4.4. Power Spectral Density

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e): 8dBm/3KHz

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



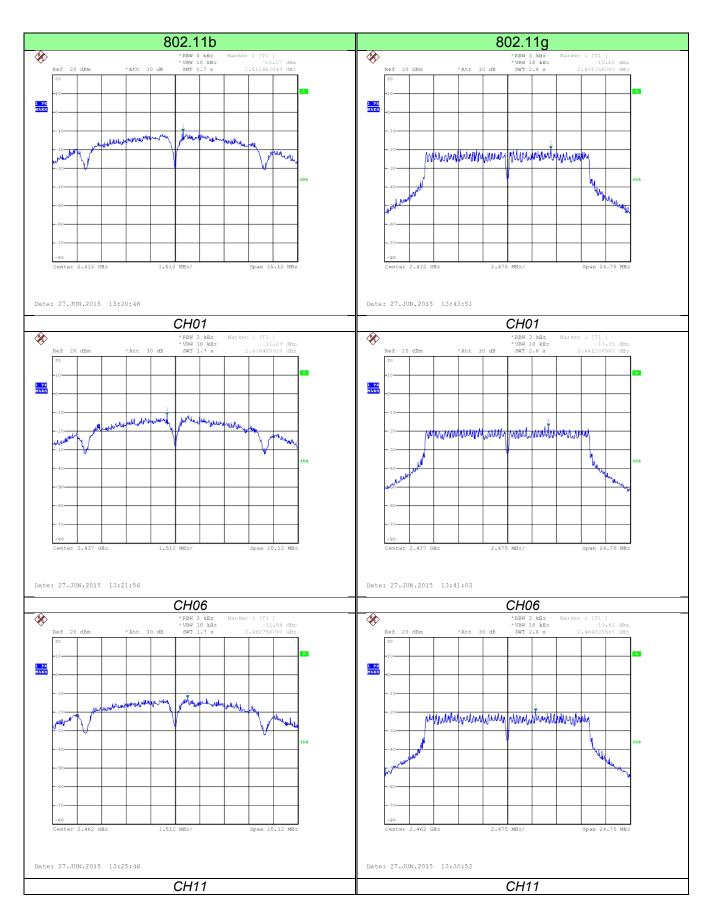
TEST PROCEDURE

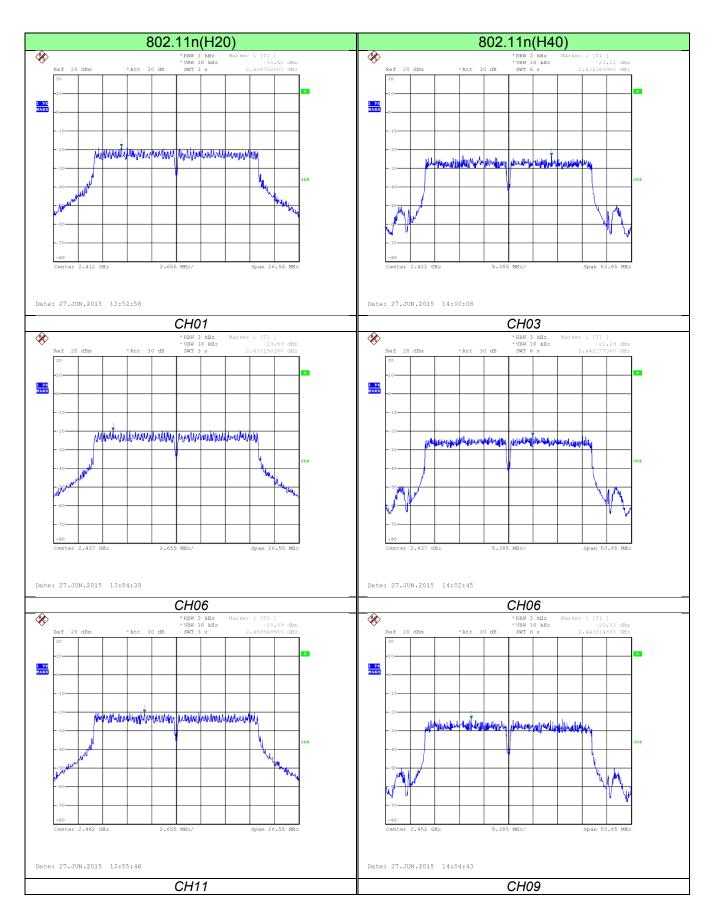
- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Туре	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result	
	01	-10.27			
802.11b	06	-11.29	8.00	Pass	
	11	-12.54			
	01	-19.60			
802.11g	06	-17.35	8.00	Pass	
	11	-19.61			
	01	-18.52			
802.11n(H20)	06	-19.59	8.00	Pass	
	11	-20.09			
	03	-23.22			
802.11n(H40)	06	-22.29	8.00	Pass	
	09	-23.33			

TEST RESULTS

Test plot as follows:





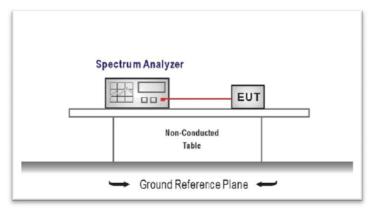
4.5. 6dB bandwidth

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2): at least 500KHz

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

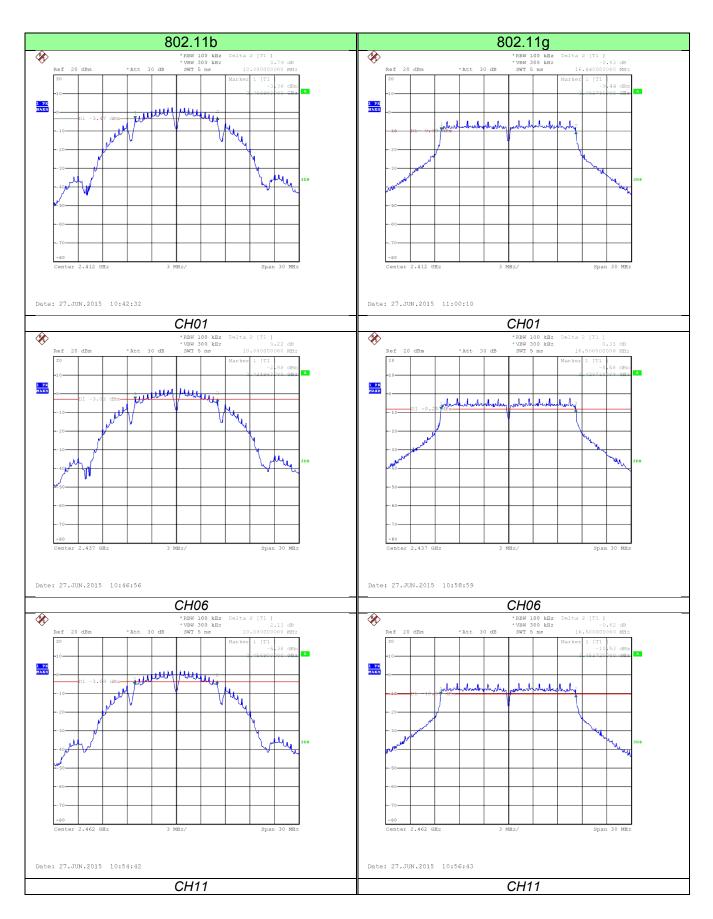
Center Frequency =DTS channel center frequency Span=2 x DTS bandwidth RBW = 100 kHz, VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

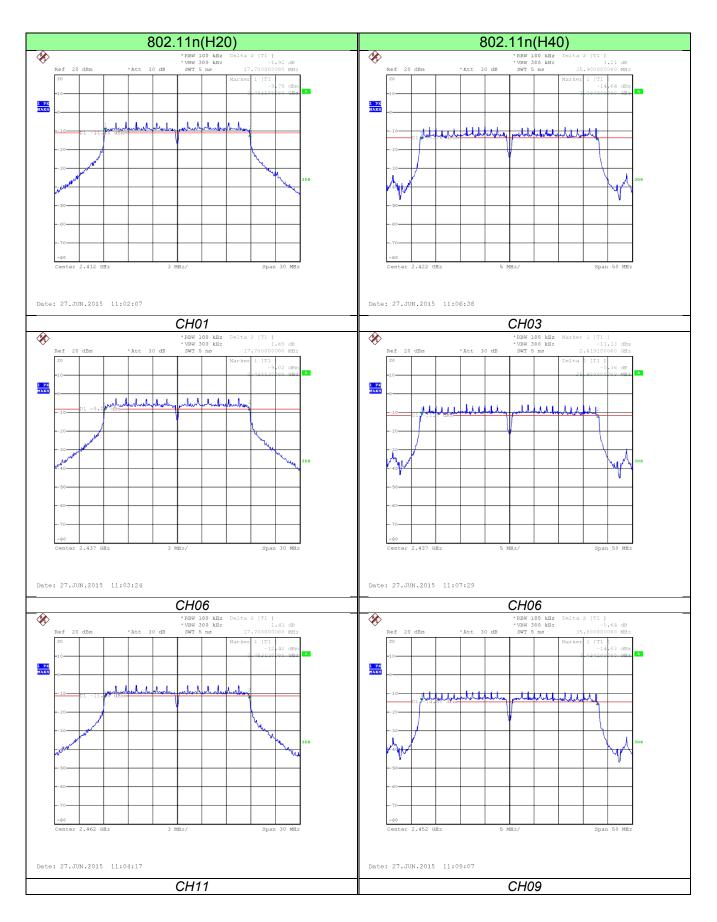
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

Туре	Channel	6dB Bandwidth(MHz)	Limit (KHz)	Result	
	01	10.08			
802.11b	06	10.08	≥500	Pass	
	11	10.08			
	01	16.44			
802.11g	06	16.50	≥500	Pass	
	11	16.50			
	01	17.70			
802.11n(H20)	06	17.70	≥500	Pass	
	11	17.70			
	03	35.90			
802.11n(H40)	06	35.90	≥500	Pass	
	09	35.80			

TEST RESULTS

Test plot as follows:





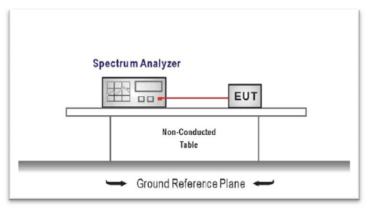
4.6. Restricted band (Conducted)

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- According to KDB 558074 D01 V03R02 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands.
 - 1) Measure the conducted output power (in dBm) using the Peak /averagedetector
 - 2) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level
 - Add the appropriate maximum ground reflection factor to the EIRP level
 6 dB for frequencies ≤ 30 MHz
 4.7 dB for frequencies between 30 MHz and 1000 MHz
 0 dB for frequencies > 1000 MHz
 - 4) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms
 - 5) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
 - E = EIRP 20log D + 104.8
 - where:

E = electric field strength in $dB\mu V/m$,

- EIRP = equivalent isotropic radiated power in dBm
- D = specified measurement distance in meters.
- 6) Compare the resultant electric field strength level to the applicable limit

2. Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows RBW = 1MHz, VBW $\ge 3 \times RBW$ Detector = Peak, Sweep time = auto Trace mode = max hold Allow sweeps to continue until the trace stabilizes.

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement

3. Average power measurement procedure

- Duty cycle <98 percent, but the duty cycle is not constant
 - a) RBW = 1 MHz, VBW \geq 1/T.
 - b) Video bandwidth mode or display mode

1) The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

2) As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some

instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

- c) Detector = Peak, Sweep time = auto.
- d) Trace mode = max hold.
- e) Allow max hold to run for at least 50 times (1/duty cycle) traces.

802.11b CH01 CH11 Ì Ì *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms * RBW 1 MHz • VBW 3 MHz 46.79 dB: SWT 5 ms Att 1 PK MAXH 1 PK MAXH 1p h. 2.452 4.8 MH2 11.2 MH GH: Stop 2.5 Date: 27.JUN.2015 14:16:18 Date: 27.JUN.2015 14:20:55 Peak level Peak level X *RBW 1 MHz *VBW 10 Hz SWT 9 s *RBW 1 MHz *VBW 10 Hz SWT 5 s Ì : 1.64 dBr 8000 GH2 dBn GH 2 2.0 dBr ALL dB Ref 20 dBr ALL 1 PK MAXH 1 PK MAXH MH2. Stop 2.422 4.8 MHz Stop 2.5 GH: Start GH2 GHZ Start GH: Date: 27.JUN.2015 14:16:54 Date: 27.JUN.2015 14:19:55 Average level Average level

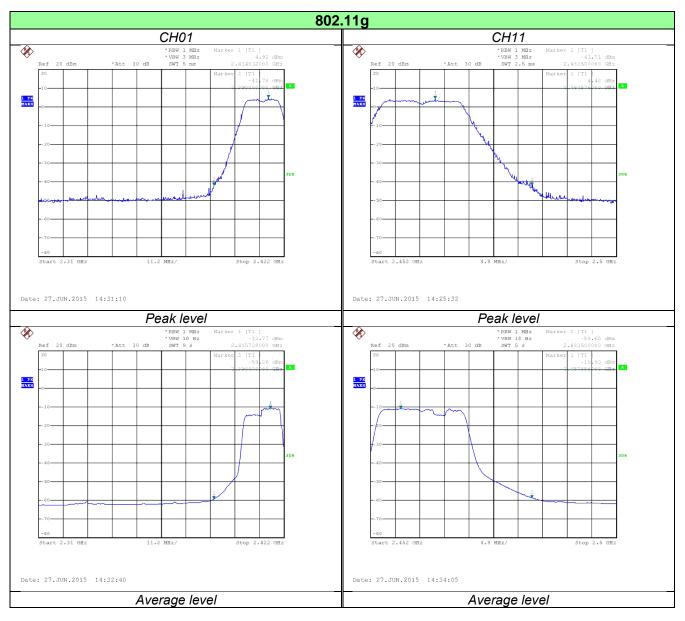
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TEST	REOU	פושנ

Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level at 3m (dBuV/m)	Limit (dBuV/m)	Result	Test Value
2390.00	-40.94	4.78	0.00	59.10	74.00	Pass	
2483.50	-46.79	4.78	0.00	53.25	74.00	Pass	Peak
2390.00	-58.18	4.78	0.00	41.86	54.00	Pass	геак
2483.50	-58.12	4.78	0.00	42.89	54.00	Pass	

Note:

EIRP=Conducted Power + Antenna Gain + Ground Reflection factor

E = EIRP - 20log D + 104.8

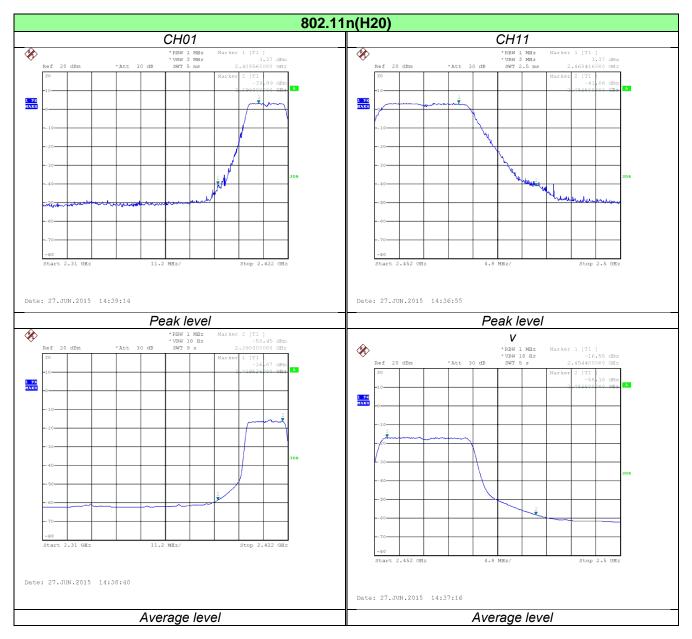


Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level at 3m (dBuV/m)	Limit (dBuV/m)	Result	Test Value
2390.00	-41.78	4.84	0.00	58.32	74.00	Pass	Peak
2483.50	-42.40	4.84	0.00	57.70	74.00	Pass	геак
2390.00	-59.26	4.84	0.00	40.84	54.00	Pass	Average
2483.50	-58.65	4.84	0.00	41.45	54.00	Pass	Average

Note:

EIRP=Conducted Power + Antenna Gain + Ground Reflection factor

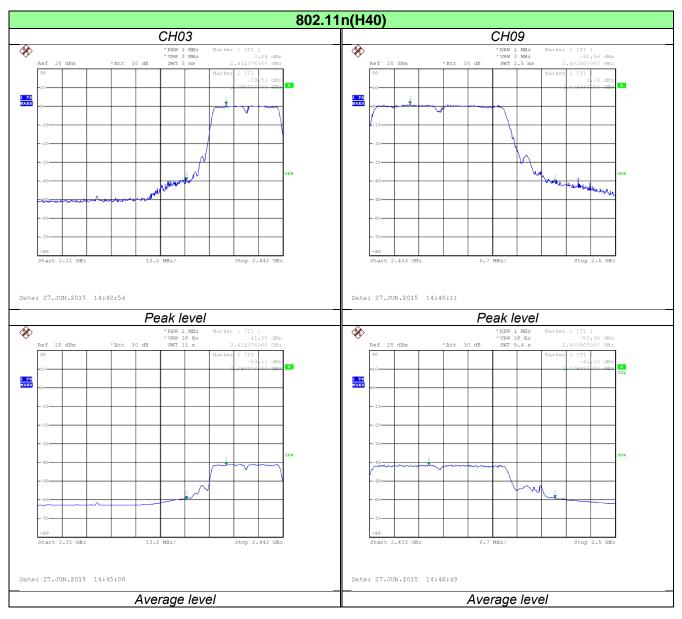
E = EIRP - 20log D + 104.8



Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level at 3m (dBuV/m)	Limit (dBuV/m)	Result	Test Value
2390.00	-39.99	4.84	0.00	60.11	74.00	Pass	Peak
2483.50	-41.06	4.84	0.00	59.04	74.00	Pass	
2390.00	-58.45	4.84	0.00	41.65	54.00	Pass	Average
2483.50	-58.18	4.84	0.00	41.92	54.00	Pass	Average

Note:

EIRP=Conducted Power + Antenna Gain + Ground Reflection factor E = EIRP – 20log D + 104.8



Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level at 3m (dBuV/m)	Limit (dBuV/m)	Result	Test Value
2390.00	-39.51	4.84	0.00	60.59	74.00	Pass	Peak
2483.50	-40.86	4.84	0.00	59.24	74.00	Pass	
2390.00	-41.30	4.84	0.00	58.80	54.00	Pass	Average
2483.50	-58.96	4.84	0.00	41.14	54.00	Pass	

Note:

EIRP=Conducted Power + Antenna Gain + Ground Reflection factor E = EIRP – 20log D + 104.8

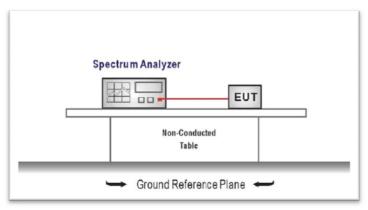
4.7. Band edge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure Center frequency=DTS channel center frequency The span = 1.5 times the DTS bandwidth. RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

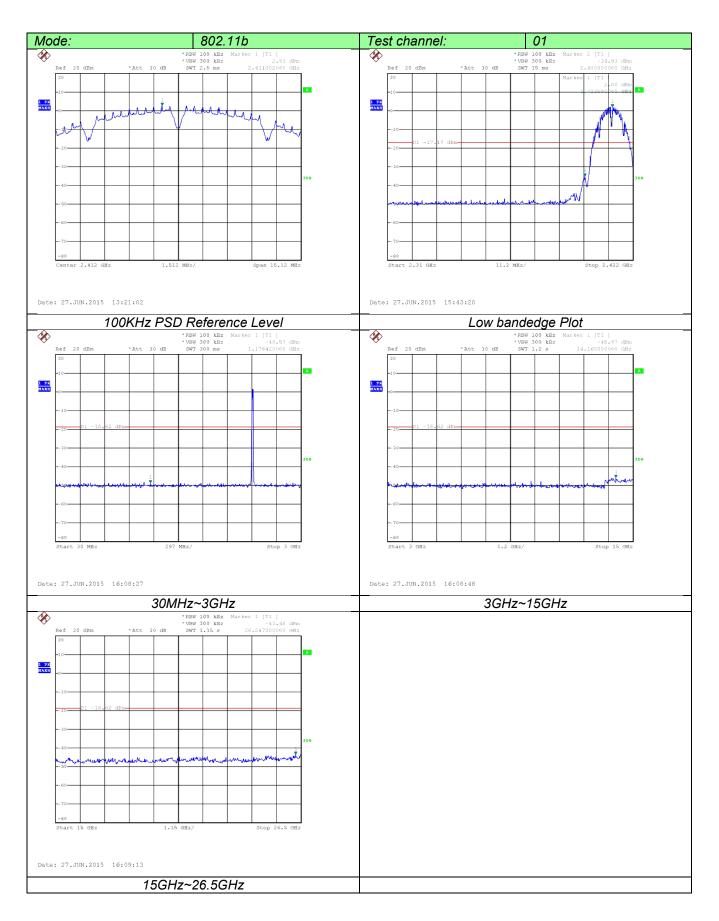
3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW \ge 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 5. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emissions relative to the limit.

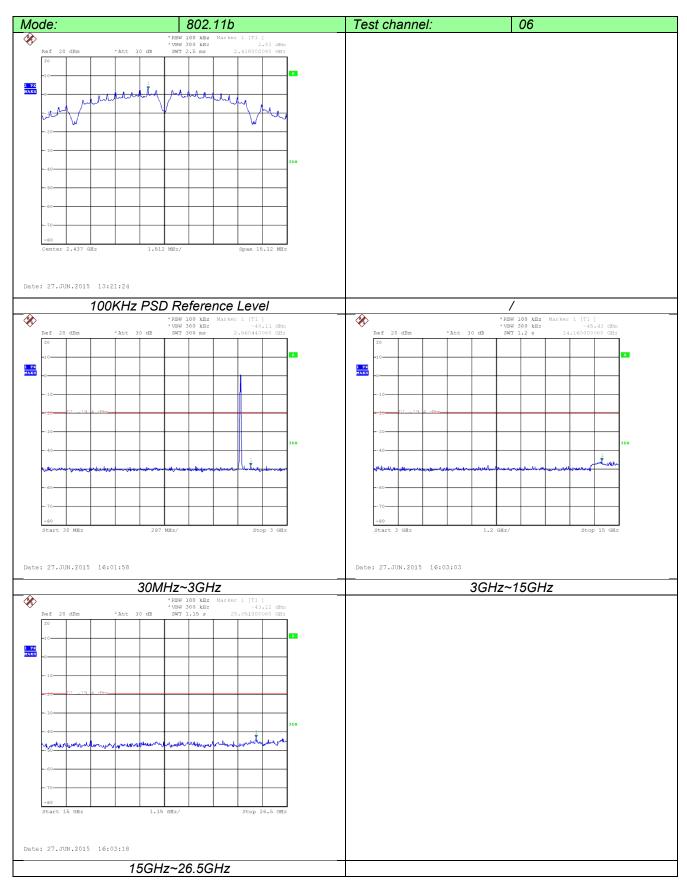
TEST RESULTS

Test plot as follows:

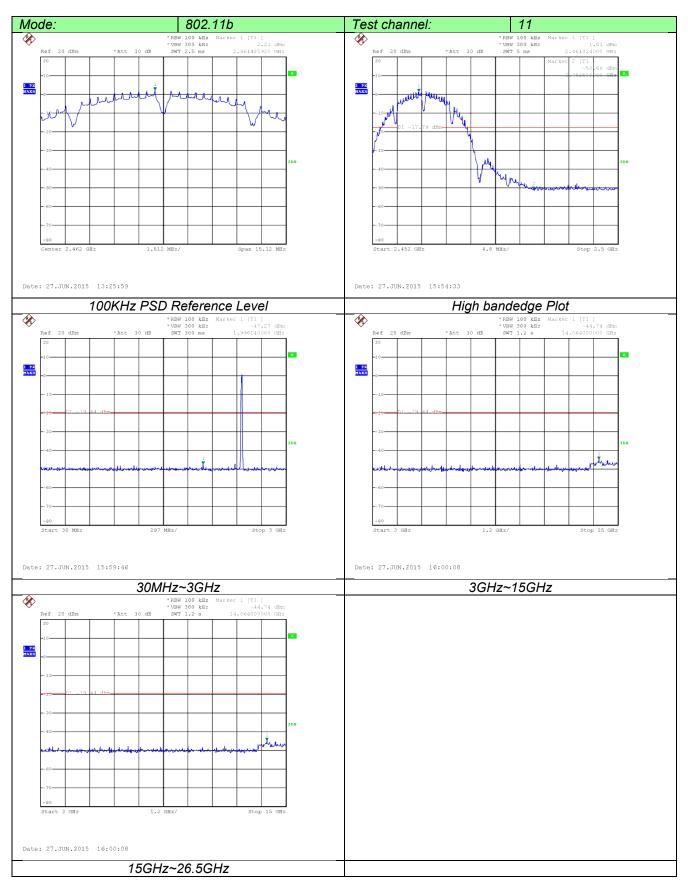


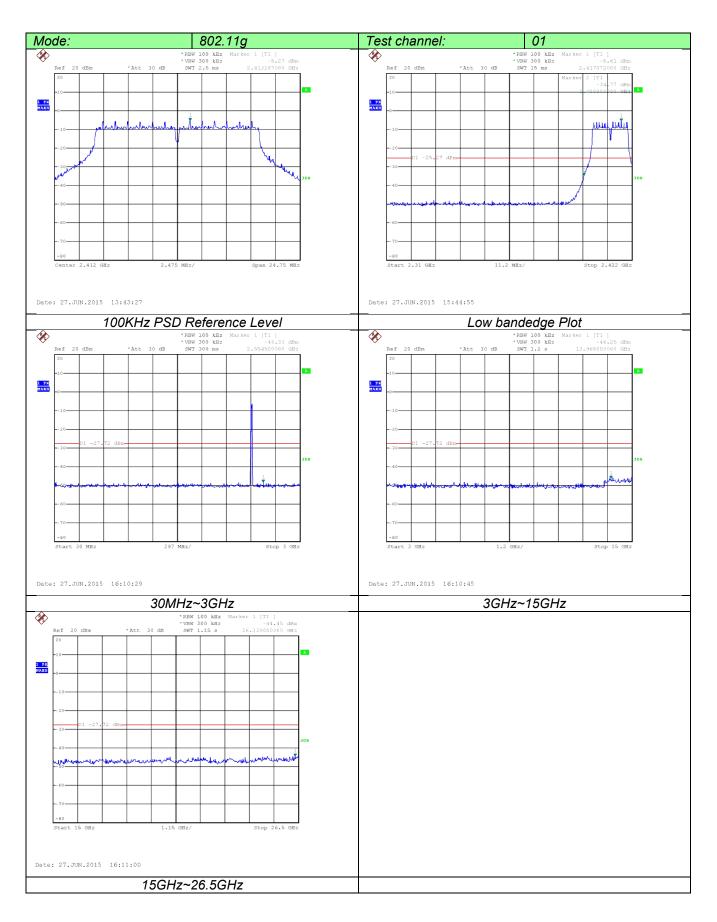
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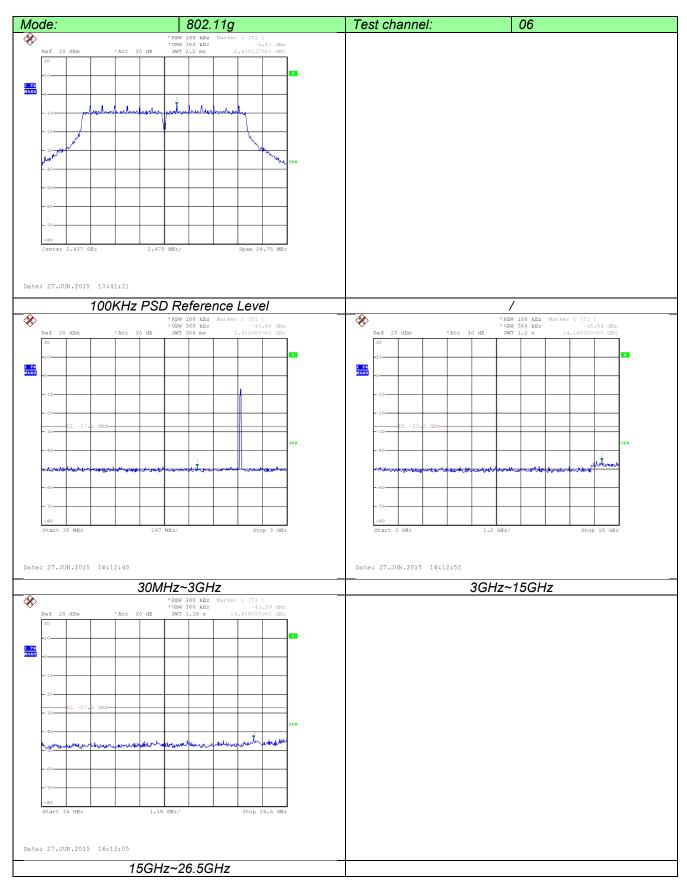
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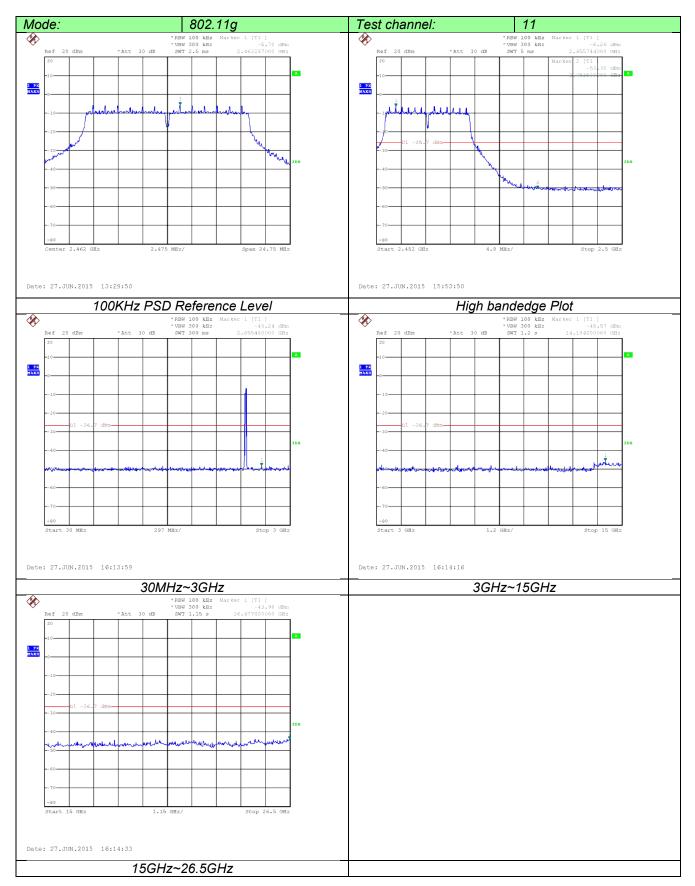


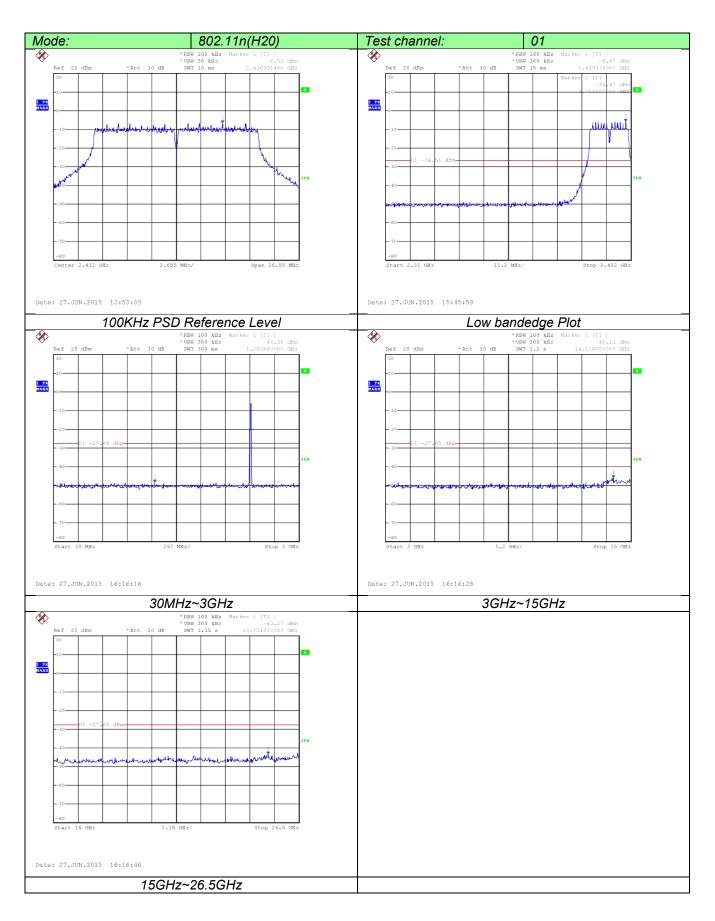
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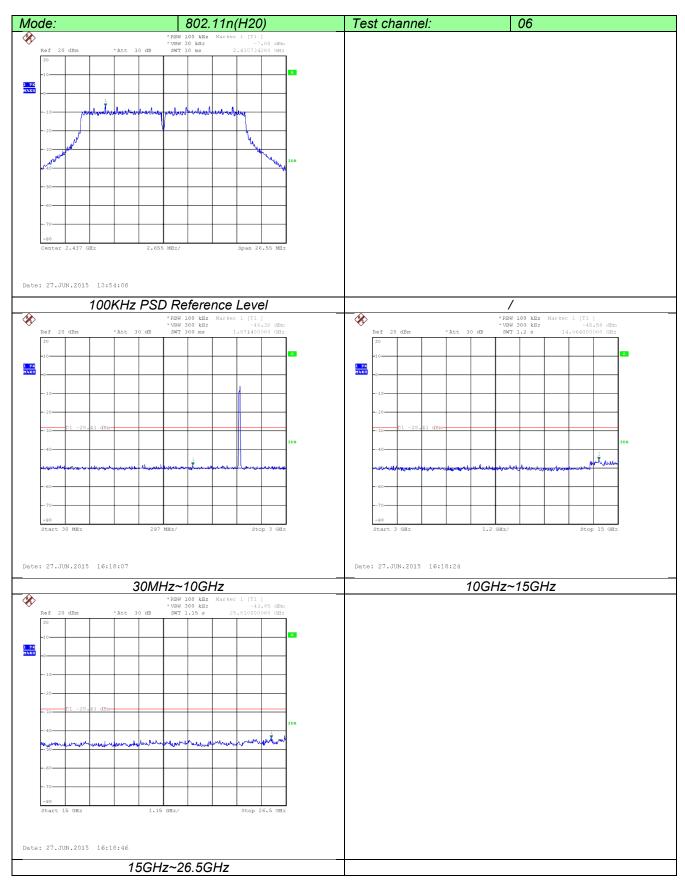
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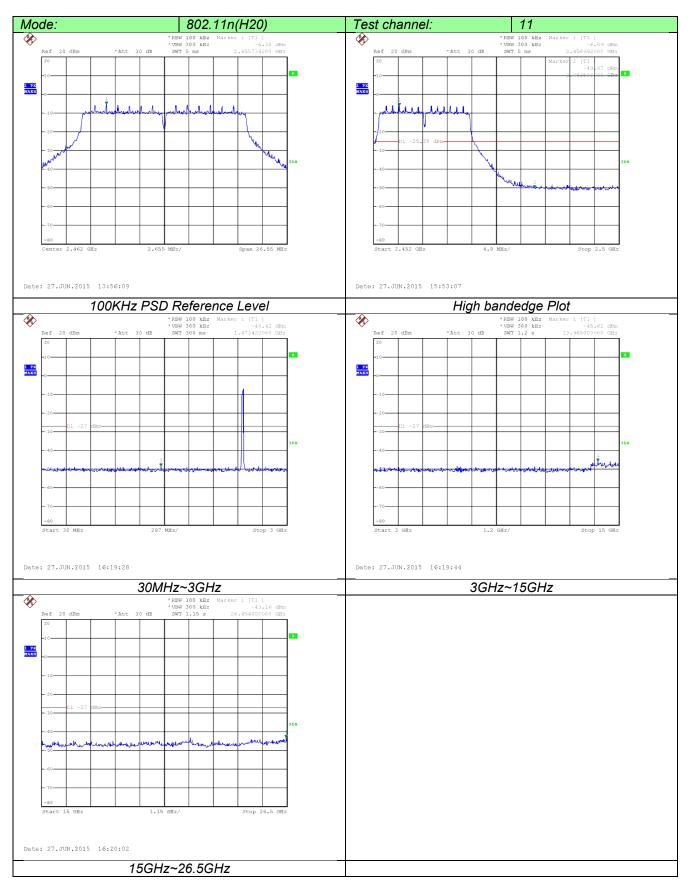


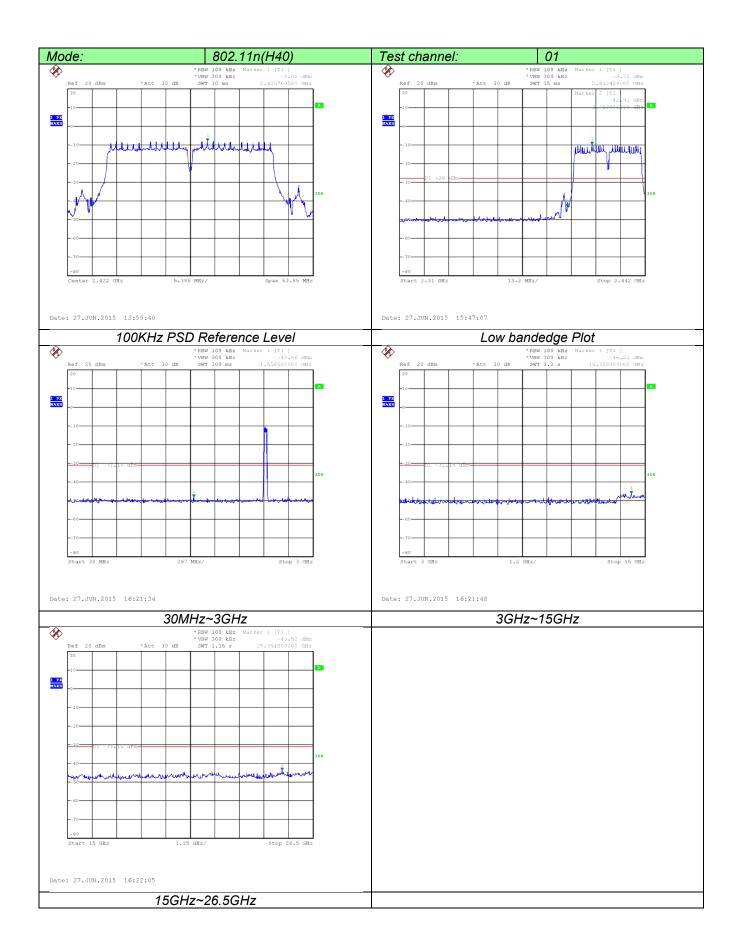
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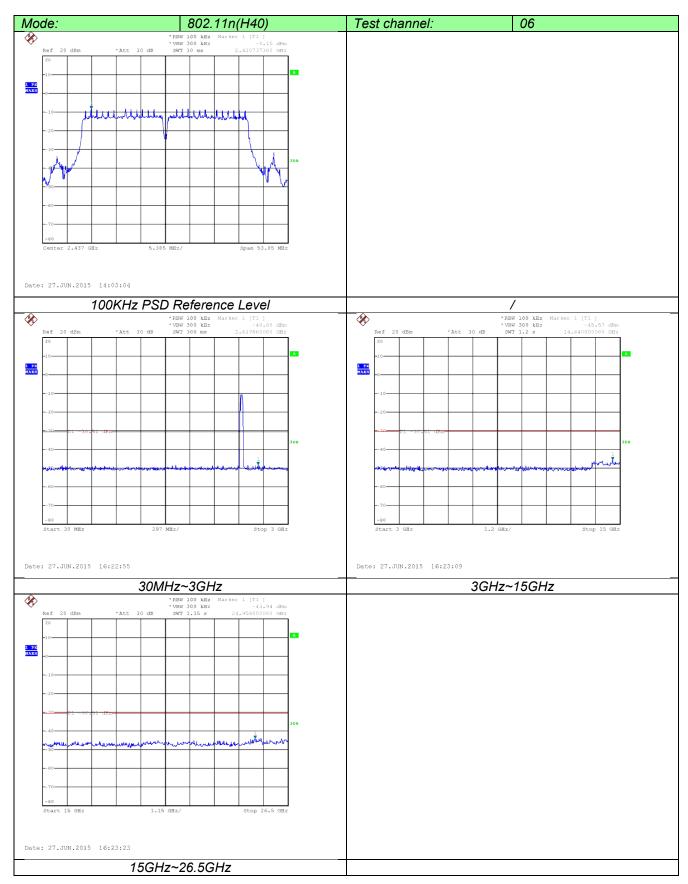




Report No: TRE1506012801

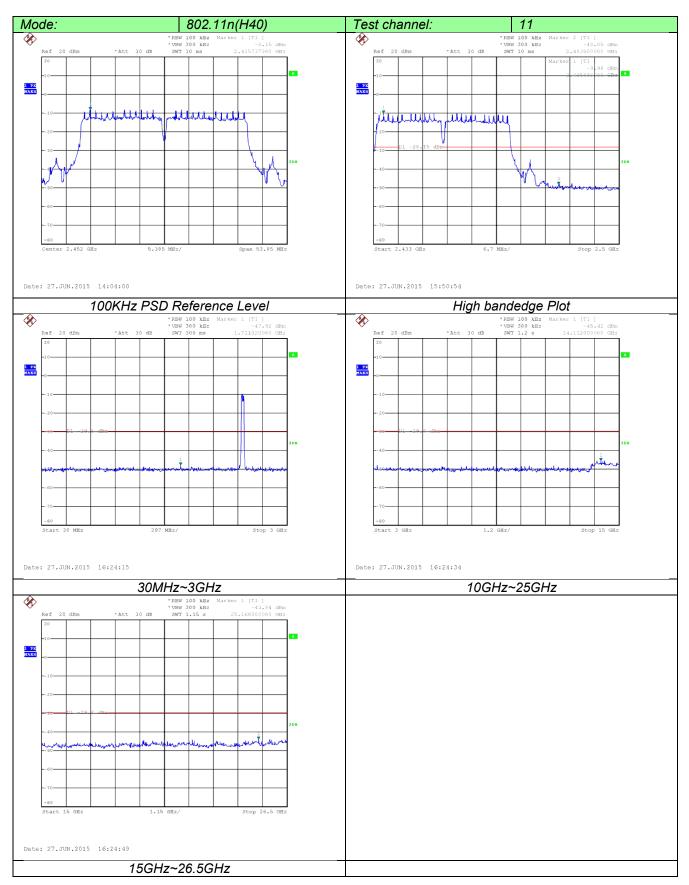
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Report No: TRE1506012801

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4.8. Spurious Emission (radiated)

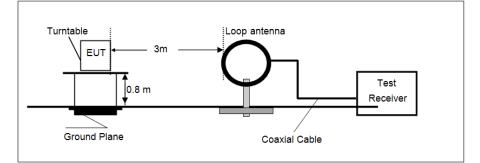
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209

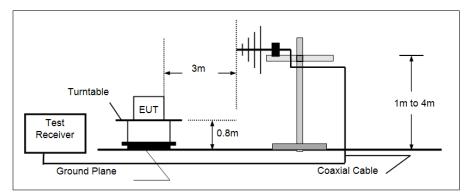
Frequency	Limit (dBuV/m @3m)	Value		
30MHz-88MHz	40.00	Quasi-peak		
88MHz-216MHz	43.50	Quasi-peak		
216MHz-960MHz	46.00	Quasi-peak		
960MHz-1GHz	54.00	Quasi-peak		
Above 1GHz	54.00	Average		
	74.00	Peak		

TEST CONFIGURATION

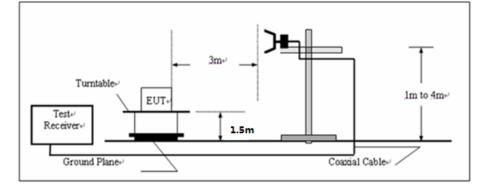
• 9KHz ~30MHz



• 30MHz ~ 1GHz



• Above 1GHz



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value RBW=1MHz, VBW=10Hz for Average value.

TEST RESULTS

Noted:

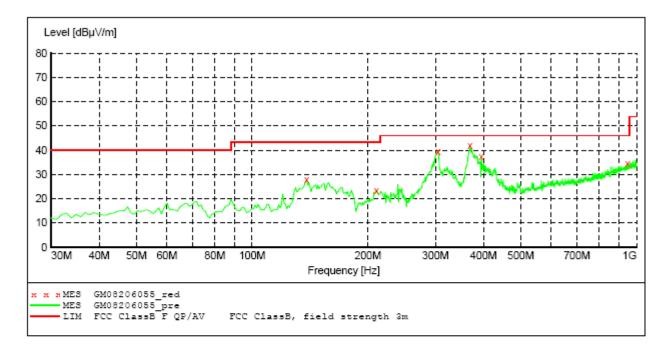
Have pre-scan all modulation mode, found the 802.11b mode which it was worst case, so only the worst case's data on the test report.

Measurement data:

■ 9kHz ~ 30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

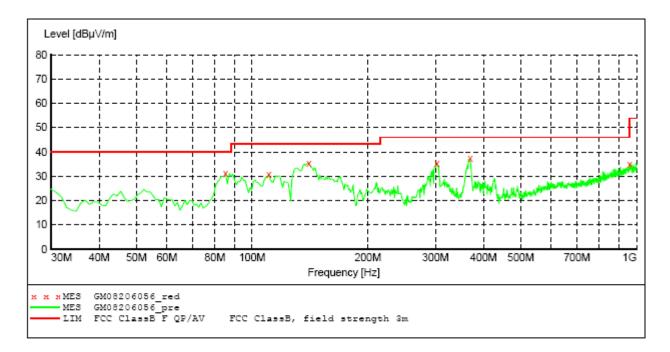
■ 30MHz ~ 1GHz



MEASUREMENT RESULT: "GM08206055 red"

8/20/2015 5:27PM

0,20,2020 012								
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
138.640000	27.70	-18.1	43.5	15.8	Q₽	300.0	359.00	HORIZONTAL
210.420000	23.50	-14.0	43.5	20.0	QP	100.0	97.00	HORIZONTAL
304.510000	39.40	-13.6	46.0	6.6	QP	100.0	171.00	HORIZONTAL
368.530000	42.10	-11.6	46.0	3.9	QP	100.0	154.00	HORIZONTAL
394.720000	37.20	-10.9	46.0	8.8	QP	100.0	195.00	HORIZONTAL
948.590000	34.40	3.7	46.0	11.6	QP	100.0	5.00	HORIZONTAL



MEASUREMENT RESULT: "GM08206056 red"

8/20/2015 5:29PM Frequency Level Transd Limit Margin Det. Height Azimuth Polarization dB dBµV/m MHz dBµV/m dB сm deg 85.290000 31.20 -17.3 40.0 8.8 Q₽ 100.0 292.00 VERTICAL -15.1 VERTICAL 110.510000 30.80 43.5 12.7 Q₽ 100.0 175.00 292.00 VERTICAL 140.580000 35.50 -18.2 43.5 8.0 QP 100.0 302.570000 35.20 -13.7 46.0 10.8 QP 100.0 232.00 VERTICAL 369.500000 8.8 QP 100.0 37.20 -11.6 46.0 331.00 VERTICAL 959.260000 3.9 46.0 11.2 QP 100.0 34.80 257.00 VERTICAL

Above 1GHz

				CH01	for 802.11b				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4831.96	45.35	31.1	9.22	38.55	47.12	74.00	-26.88	Vertical	
7242.05	38.86	36.0	10.87	38.11	47.62	74.00	-26.38	Vertical	
11500.02	35.58	39.1	13.49	37.88	50.29	74.00	-23.71	Vertical	
12160.00	*					74.00		Vertical	Peak
4831.96	47.07	31.1	9.22	38.55	48.84	74.00	-25.16	Horizontal	i can
7242.05	39.16	36.0	10.87	38.11	47.92	74.00	-26.08	Horizontal	
9669.16	40.34	38.2	12.17	38.08	52.63	74.00	-21.37	Horizontal	
12160.00	*					74.00		Horizontal	
4831.96	33.59	31.1	9.22	38.55	35.36	54.00	-18.64	Vertical	-
7242.05	26.52	36	10.87	38.11	35.28	54.00	-18.72	Vertical	
11500.02	24.08	39.1	13.49	37.88	38.79	54.00	-15.21	Vertical	
12160.00						54.00		Vertical	Average
4831.96	34.92	31.1	9.22	38.55	36.69	54.00	-17.31	Horizontal	,
7242.05	27.08	36	10.87	38.11	35.84	54.00	-18.16	Horizontal	-
9669.16	27.67	38.2	12.17	38.08	39.96	54.00	-14.04	Horizontal	-
12160.00	^					54.00		Horizontal	
				CH06	for 802.11b				
Frequency	Read Level	Antenna	Cable	Preamp	Level	Limit Line	Margin		Test
(MHz)	(dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	Polarization	value
(MHZ) 4941.03								Polarization Vertical	
. ,	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
4941.03	(dBuV) 39.54	(dB/m) 31.17	(dB) 9.31	(dB) 38.62	(dBuV/m) 47.09	(dBuV/m) 74.00	(dB) -26.91	Vertical	
4941.03 7413.52	(dBuV) 39.54 35.86	(dB/m) 31.17 36.13	(dB) 9.31 10.93	(dB) 38.62 38.14	(dBuV/m) 47.09 46.55	(dBuV/m) 74.00 74.00	(dB) -26.91 -27.45	Vertical Vertical	value
4941.03 7413.52 9748.00	(dBuV) 39.54 35.86 37.79	(dB/m) 31.17 36.13	(dB) 9.31 10.93	(dB) 38.62 38.14	(dBuV/m) 47.09 46.55	(dBuV/m) 74.00 74.00 74.00	(dB) -26.91 -27.45	Vertical Vertical Vertical	
4941.03 7413.52 9748.00 12185.00	(dBuV) 39.54 35.86 37.79 *	(dB/m) 31.17 36.13 37.45	(dB) 9.31 10.93 8.84	(dB) 38.62 38.14 35.53	(dBuV/m) 47.09 46.55 46.40	(dBuV/m) 74.00 74.00 74.00 74.00	(dB) -26.91 -27.45 -27.60	Vertical Vertical Vertical Vertical	value
4941.03 7413.52 9748.00 12185.00 4941.03	(dBuV) 39.54 35.86 37.79 * 42.33	(dB/m) 31.17 36.13 37.45 31.17	(dB) 9.31 10.93 8.84 9.31	(dB) 38.62 38.14 35.53 38.62	(dBuV/m) 47.09 46.55 46.40 49.98	(dBuV/m) 74.00 74.00 74.00 74.00 74.00	(dB) -26.91 -27.45 -27.60 -24.02	Vertical Vertical Vertical Vertical Horizontal	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52	(dBuV) 39.54 35.86 37.79 * 42.33 37.78	(dB/m) 31.17 36.13 37.45 31.17 36.13	(dB) 9.31 10.93 8.84 9.31 10.93	(dB) 38.62 38.14 35.53 38.62 38.14	(dBuV/m) 47.09 46.55 46.40 49.98 48.55	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45	Vertical Vertical Vertical Vertical Horizontal Horizontal	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20	(dB/m) 31.17 36.13 37.45 31.17 36.13	(dB) 9.31 10.93 8.84 9.31 10.93	(dB) 38.62 38.14 35.53 38.62 38.14	(dBuV/m) 47.09 46.55 46.40 49.98 48.55	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 *	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45	(dB) 9.31 10.93 8.84 9.31 10.93 8.84	(dB) 38.62 38.14 35.53 38.62 38.14 35.53	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Horizontal	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 4941.03	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 * 33.37	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45 31.17	(dB) 9.31 10.93 8.84 9.31 10.93 8.84 9.31	(dB) 38.62 38.14 35.53 38.62 38.14 35.53 38.62 38.62 38.14	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28 35.23	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 54.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72 -18.77	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Vertical	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 4941.03 7413.52	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 * 33.37 25.51	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45 31.17 36.13	(dB) 9.31 10.93 8.84 9.31 10.93 8.84 9.31 10.93	(dB) 38.62 38.14 35.53 38.62 38.14 35.53 38.62	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28 51.28 35.23 34.43	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 54.00 54.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72 -18.77 -19.57	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Vertical Vertical	value Peak
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 * 33.37 25.51 23.87	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45 31.17 36.13	(dB) 9.31 10.93 8.84 9.31 10.93 8.84 9.31 10.93	(dB) 38.62 38.14 35.53 38.62 38.14 35.53 38.62 38.62 38.14	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28 51.28 35.23 34.43	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 54.00 54.00 54.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72 -18.77 -19.57	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Vertical Vertical	value
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 * 33.37 25.51 23.87 *	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45 31.17 36.13 37.45	(dB) 9.31 10.93 8.84 9.31 10.93 8.84 9.31 10.93 8.84	(dB) 38.62 38.14 35.53 38.62 38.14 35.53 38.62 38.14 35.53	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28 35.23 34.43 34.63	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 54.00 54.00 54.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72 -18.77 -19.57 -19.37	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Vertical Vertical Vertical Vertical	value Peak
4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 4941.03 7413.52 9748.00 12185.00 12185.00	(dBuV) 39.54 35.86 37.79 * 42.33 37.78 38.20 * 33.37 25.51 23.87 * 35.83	(dB/m) 31.17 36.13 37.45 31.17 36.13 37.45 31.17 36.13 37.45 31.17 31.17	(dB) 9.31 10.93 8.84 9.31 10.93 8.84 9.31 10.93 8.84 9.31	(dB) 38.62 38.14 35.53 38.62 38.14 35.53 38.62 38.14 35.53 38.62	(dBuV/m) 47.09 46.55 46.40 49.98 48.55 51.28 35.23 34.43 34.63 37.69	(dBuV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 54.00 54.00 54.00 54.00 54.00	(dB) -26.91 -27.45 -27.60 -24.02 -25.45 -22.72 -18.77 -19.57 -19.37 -16.31	Vertical Vertical Vertical Vertical Horizontal Horizontal Horizontal Vertical Vertical Vertical Vertical Horizontal	value Peak

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. "*", means this data is the too weak instrument of signal is unable to test.

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

CH11 for 802.11b									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4944.99	45.36	31.17	9.31	38.62	47.22	74.00	-26.78	Vertical	
8013.02	35.45	36.72	11.24	38.24	45.17	74.00	-28.83	Vertical	
9895.35	37.16	38.33	12.39	38.12	49.76	74.00	-24.24	Vertical	
12340.00	*					74.00		Vertical	Deek
4944.99	49.00	31.17	9.31	38.62	50.86	74.00	-23.14	Horizontal	Peak
7411.46	39.42	36.13	10.93	38.14	48.34	74.00	-25.66	Horizontal	
9895.35	41.02	38.33	12.39	38.12	53.62	74.00	-20.38	Horizontal	
12340.00	*					74.00		Horizontal	
4944.99	33.48	31.17	9.31	38.62	35.34	54.00	-18.66	Vertical	
8013.02	23.54	36.72	11.24	38.24	33.26	54.00	-20.74	Vertical	
9895.35	24.98	38.33	12.39	38.12	37.58	54.00	-16.42	Vertical	
12340.00	*					54.00		Vertical	Average
4944.99	37.17	31.17	9.31	38.62	39.03	54.00	-14.97	Horizontal	Average
7411.46	27.50	36.13	10.93	38.14	36.42	54.00	-17.58	Horizontal	
9895.35	28.93	38.33	12.39	38.12	41.53	54.00	-12.47	Horizontal	
12340.00	*					54.00		Horizontal	

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. "*", means this data is the too weak instrument of signal is unable to test.

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. Test Setup Photos of the EUT

Radiated Emission





Conducted Emission (AC Mains)



6. External and Internal Photos of the EUT

External Photos of the EUT











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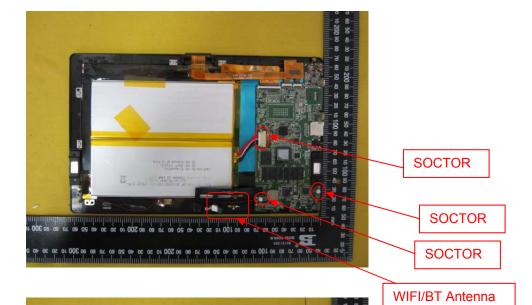




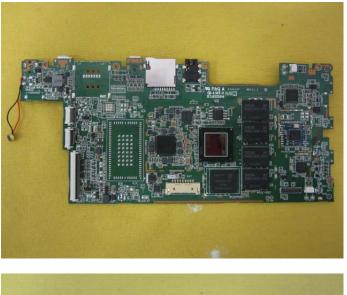
Internal Photos of the EUT

Case A:













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Case B:



