

Global United Technology Service Co., Ltd.

Report No: GTSE10110033301

FCC REPORT

Applicant: Phonex Broadband Corporation

Address of Applicant: 6952 High Tech Drive, Midvale, Utah

Equipment Under Test (EUT)

Product Name: HD Wireless n Adapter

Model No.: A150bgn, TS-802NRUS

FCC ID: Y2P-802NRUS

Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2009

Date of Receipt: 22 Nov., 2010

Date of Test: 24 Nov.-Dec. 05, 2010

Date of Issue: Dec. 06, 2010

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	15.207	PASS
Conducted Peak Output Power	15.247 (b)(3)	PASS
6dB Occupied Bandwidth	15.247 (a)(2)	PASS
Power Spectral Density	15.247 (e)	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.247(d)	PASS

Remark:

- Passed: The EUT complies with the essential requirements in the standard.
- Failed: The EUT does not comply with the essential requirements in the standard.
- Tx: In this whole report Tx (or tx) means Transmitter.
- Rx: In this whole report Rx (or rx) means Receiver.

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4 General Information

4.1 Client Information

Applicant:	Phonex Broadband Corporation	
Address of Applicant:	6952 High Tech Drive, Midvale, Utah	
Manufacturer/ Factory:	QVS Manufacturing Services	
Address of Manufacturer/ Factory:	10721 S Hidden Ridge Lane, Sandy, Utah 84092	

4.2 General Description of E.U.T.

Product Name:	HD Wireless n Adapter
Model No.:	A150bgn, TS-802NRUS
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
	2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)
	7 for 802.11(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	DC 5V (USB port supply)
Remark:	Only the model No. A150bgn was tested. A150bgn and TS-802NRUS, are identical interior structure, electrical circuits, components and appearance with different model names for the marketing requirement.

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n(H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n(H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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4.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Operation mode Keep the EUT in transmitting with modulation.				

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	Data rate			
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(H20)	6.5Mbps			
802.11n(H40)	13.0Mbps			

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11p, 6.5Mbps for 802.11n(H20), 13Mbps for 802.11n(H40)

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4.4 Test Facility

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

● FCC —Registration No.: 600491

Global United Technology Service Co., Ltd., Shenzhen 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 out files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.5 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

4.6 Other Information Requested by the Customer

None.

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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4.7 Test Instruments list

Radia	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2010	Mar. 30 2011	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Sep. 10 2010	Sep. 10 2011	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Sep. 10 2010	Sep. 10 2011	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2010	June 30 2011	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2010	Apr. 01 2011	
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2010	Apr. 01 2011	
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2010	Apr. 01 2011	
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2010	Apr. 01 2011	
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2010	Apr. 01 2011	
12	Amplifier(10KHz- 5GHz)	Sonnoma Instrument	305-1052	GTS210	Aug. 03 2010	Aug. 03 2011	
13	Amplifier(2GHz- 20GHz)	HP	8349B	GTS231	Aug. 03 2010	Aug. 03 2011	
14	Power Meter	Rohde & Schwarz	NRVD	SEL0069	June 23 2010	June 23 2011	
15	Power Sensor	Rohde & Schwarz	URV5-Z2	SEL0071	June 23 2010	June 23 2011	

Cond	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS206	Apr. 10 2010	Apr. 10 2011		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Sep. 14 2010	Sep. 14 2011		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	Sep. 14 2010	Sep. 14 2011		
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2010	Apr. 14 2011		
5	Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2010	Apr. 01 2011		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

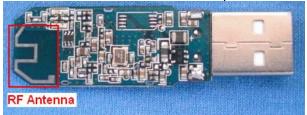
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(c) (1)(i) requirement:

(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.

E.U.T Antenna:

The antenna is no consideration of replacement. The best case gain of the antenna is 2.0dBi.



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5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	1				
Test Method:	ANSI C63.4: 2003					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz					
Limit:	Frequency range (MHz)	Limit (c	lBuV)			
	. , ,	Quasi-peak Average				
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5 5-30	56 60	46 50			
			50			
Test procedure	* Decreases with the logarithm of the frequency. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.					
Test setup:	LISN 40cm		er — AC power			
Test Instruments:	Refer to section 4.7 for details					
Test mode:	Refer to section 4.3 for details					
Test results:	Passed					

Measurement Data

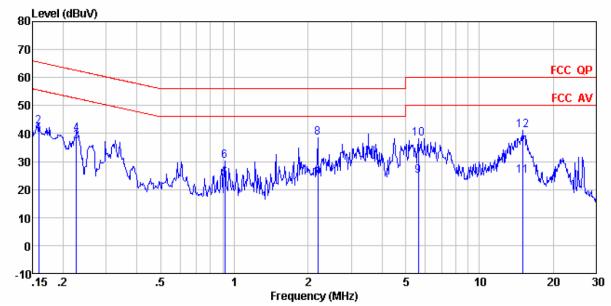
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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Live Line:



Condition : FCC QP LISN LINE

Job No : 333RF

EUT : HD Wireless n Adapter

Test Mode : PC mode Test Engineer: Lau

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2	0.159 0.159	35.70 38.90	3.68 3.68	0.01 0.01	39.39 42.59		-16.13 -22.93	Average QP
2 3 4 5	0. 227 0. 227	33.50 36.20	3.64 3.64	0.01 0.01	37.15 39.85	52.57		Average
6	0.914 0.914	20.30 26.54	3. 49 3. 49	0.01 0.01	23.80 30.04	56.00	-25.96	
7 8	2. 190 2. 190	20.40	3.39 3.39	0.13	23. 92 38. 33	56.00	-17.67	-
9 10	5. 623 5. 623	21. 29 34. 63	3. 29 3. 29	0.33	24. 91 38. 25	60.00	-21.75	-
11 12	14. 986 14. 986	21.29 37.43	3.18 3.18	0. 43 0. 43	24.90 41.04		-25.10 -18.96	Average QP

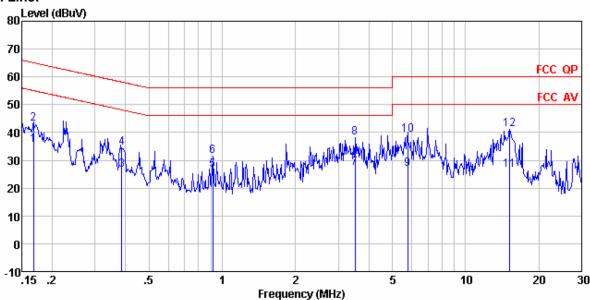
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Neutral Line:



Condition : FCC QP LISN NEUTRAL

Job No : 333RF

EUT : HD Wireless n Adapter

Test Mode : PC mode Test Engineer: Lau

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu√	dB	d₿	dBuV	dBuV	dB	
1 2	0.168 0.168	31.80 39.60	3.68 3.68	0.01 0.01	35. 49 43. 29		-19.59 -21.79	Average QP
2 3 4	0.387 0.387	23.10 31.00	3.58 3.58	0.01 0.01	26.69 34.59	48.12		Äverage
4 5 6	0.914 0.914	23.10	3. 49 3. 49	0.01 0.01	26.60 31.52	46.00		Average
7 8	3.509 3.509	23.50 34.60	3.34 3.34	0. 24 0. 24	27.08 38.18	46.00		Average
9	5.774	23.10	3.28	0.33	26.71	50.00	-23.29	Average
10 11	5. 774 15. 146	35.60 22.79	3. 28 3. 18	0.33 0.43	39. 21 26. 40	50.00		Average
12	15.146	37.51	3.18	0.43	41.12	60.00	-18.88	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and KDB558074		
Limit:	30dBm		
Test setup:	Power Meter Power Sensor E.U.T Non-Conducted Table Ground Reference Plane		
Test procedure:	A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Refer to section 4.3 for details		
Test results:	Passed		

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Project No.: GTSE101100333RF

Measurement Data

WedSurement Data						
	802.11b mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	23.68	30.00	Pass			
Middle	23.42	30.00	Pass			
Highest	23.24	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.68	30.00	Pass			
Middle	19.27	30.00	Pass			
Highest	19.32	30.00	Pass			
	802.11n-H20 mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	18.59	30.00	Pass			
Middle	18.45	30.00	Pass			
Highest	18.23	30.00	Pass			
802.11n-H40 mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	17.98	30.00	Pass			
Middle	18.05	30.00	Pass			
Highest	17.86	30.00	Pass			

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5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	ANSI C63.4:2003 and KDB558074	
Limit:	>500KHz	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 4.7 for details	
Test mode:	Refer to section 4.3 for details	
Test results:	Passed	

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Measurement Data

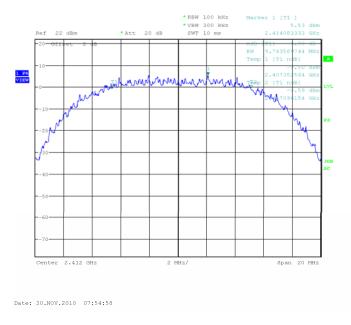
MedSurement Data					
802.11b mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result		
Lowest	9.743	>500	Pass		
Middle	10.096	>500	Pass		
Highest	9.679	>500	Pass		
	802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result		
Lowest	16.506	>500	Pass		
Middle	16.506	>500	Pass		
Highest	16.474	>500	Pass		
802.11n-H20 mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result		
Lowest	17.660	>500	Pass		
Middle	17.692	>500	Pass		
Highest	17.692	>500	Pass		
802.11n-H40 mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result		
Lowest	36.320	>500	Pass		
Middle	36.378	>500	Pass		
Highest	36.057	>500	Pass		

Test plot as follows:

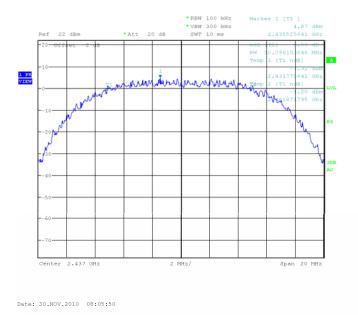
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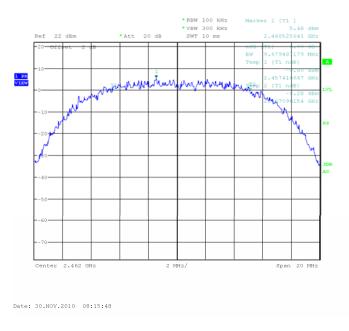




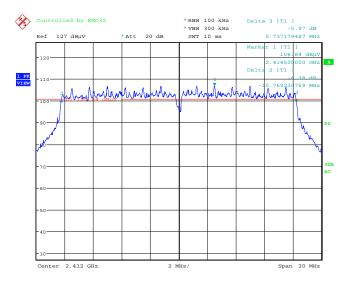
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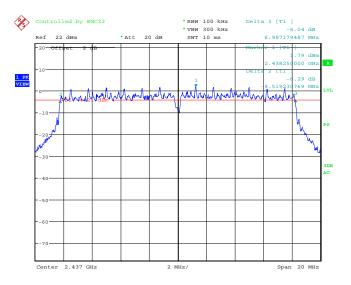
Test mode: 802.11g Test channel: Lowest



Date: 3.DEC.2010 08:53:06

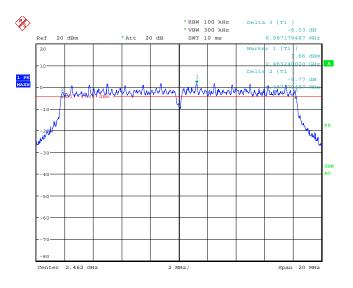






Date: 3.DEC.2010 08:56:31

Test mode: 802.11g Test channel: Highest



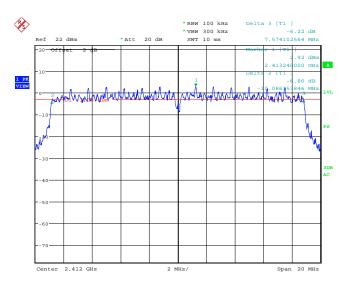
Date: 3.DEC.2010 12:51:40

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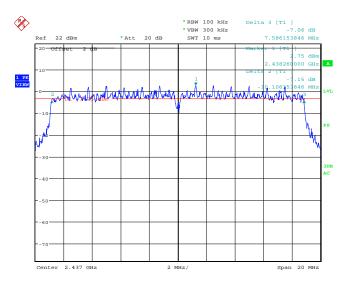
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Date: 3.DEC.2010 13:21:43

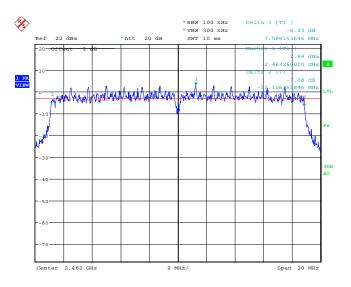
Test mode: 802.11n-H20 Test channel: Middle



Date: 3.DEC.2010 13:29:18

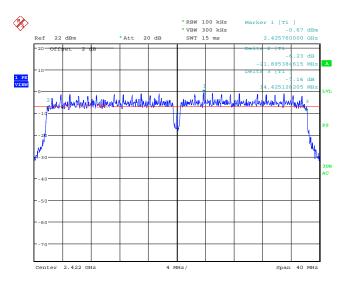






Date: 3.DEC.2010 13:34:34

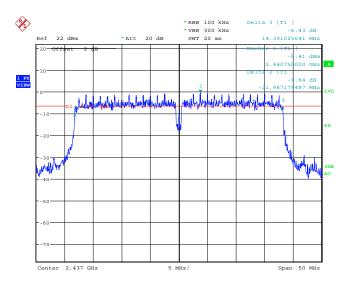
Test mode: 802.11n-H40 Test channel: Lowest



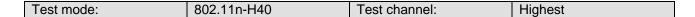
Date: 3.DEC.2010 13:39:09

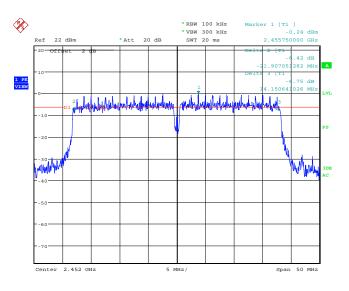






Date: 3.DEC.2010 13:43:56





Date: 3.DEC.2010 13:47:59

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5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2003 and KDB558074		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table		
	Ground Reference Plane		
	Remark: Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Refer to section 4.3 for details		
Test results:	Passed		

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Measurement Data

	802.11b mode				
Toot showns!		Lineit (dDne)	Decult		
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	6.03	8.00	Pass		
Middle	6.29	8.00	Pass		
Highest	6.77	8.00	Pass		
	802.11g mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-14.14	8.00	Pass		
Middle	-14.69	8.00	Pass		
Highest	-17.09	8.00	Pass		
802.11n-H20 mode					
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-14.96	8.00	Pass		
Middle	-12.88	8.00	Pass		
Highest	-12.48	8.00	Pass		
802.11n-H40 mode					
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-18.29	8.00	Pass		
Middle	-18.01	8.00	Pass		
Highest	-17.76	8.00	Pass		

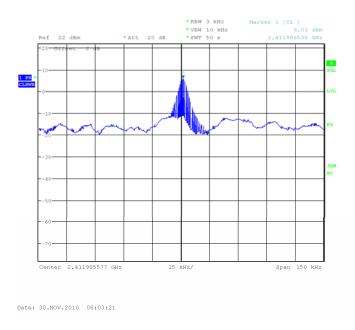
Test plot as follows:

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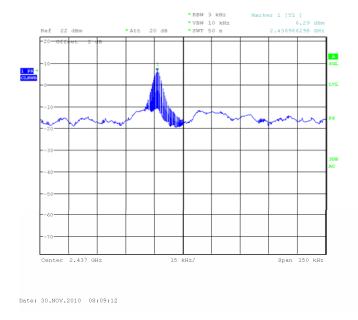


Project No.: GTSE101100333RF

Test mode: 802.11b Test channel: Lowest



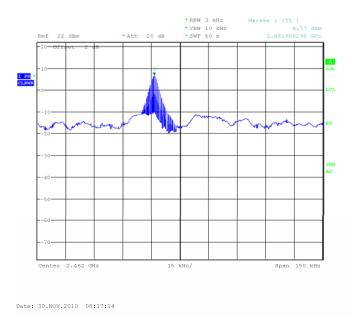
Test mode: 802.11b Test channel: Middle



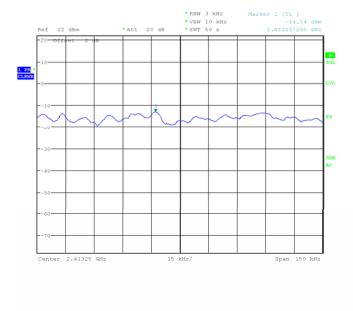


Project No.: GTSE101100333RF





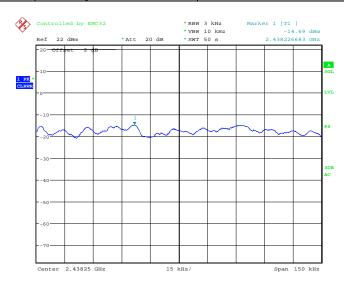
Test mode: 802.11g Test channel: Lowest



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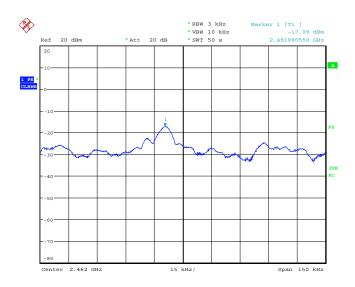






Date: 3.DEC.2010 09:07:13

Test mode: 802.11g Test channel: Highest

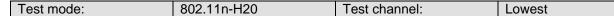


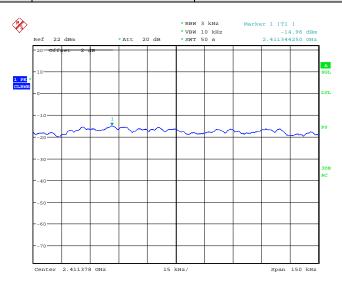
Date: 3.DEC.2010 12:54:12

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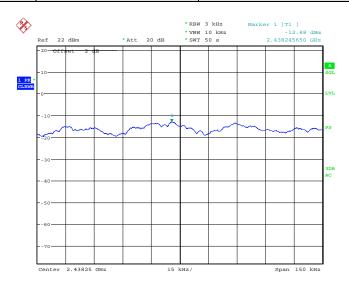






Date: 3.DEC.2010 13:27:48

Test mode: 802.11n-H20 Test channel: Middle

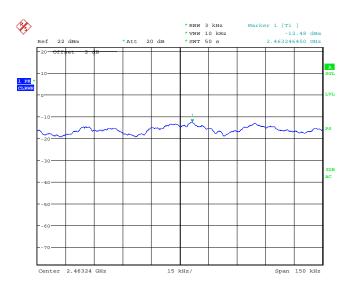


Date: 3.DEC.2010 13:33:23

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

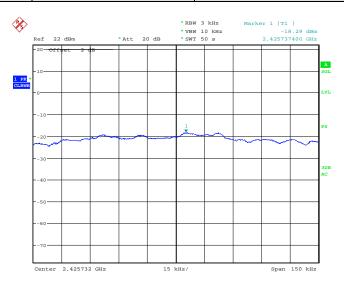






Date: 3.DEC.2010 13:37:23

Test mode: 802.11n-H40 Test channel: Lowest

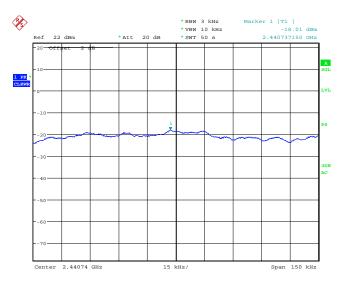


Date: 3.DEC.2010 13:42:46

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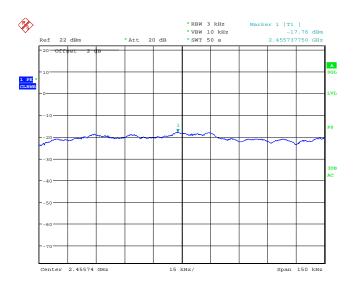






Date: 3.DEC.2010 13:46:47

Test mode: 802.11n-H40 Test channel: Highest



Date: 3.DEC.2010 13:51:30

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5.6 Band Edge

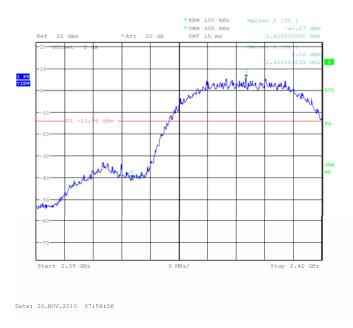
Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	ANSI C63.4:2003 and KDB558074		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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 setup:			
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:		
	Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Refer to section 4.3 for details		
Test results:	Passed		

Test plot as follows:

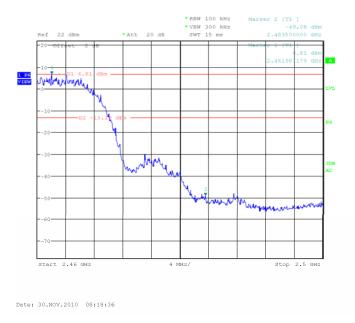
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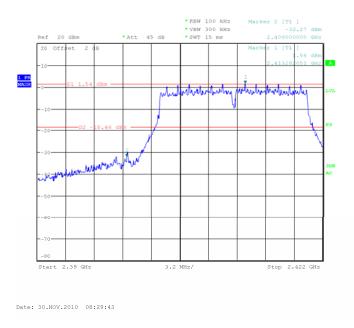
Test mode: 802.11b Test channel: Highest



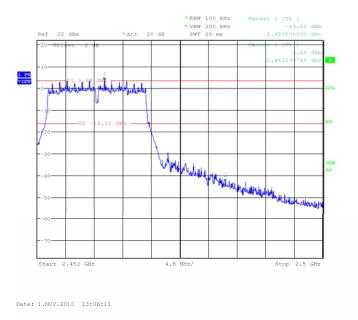
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960







Test mode: 802.11g Test channel: Highest

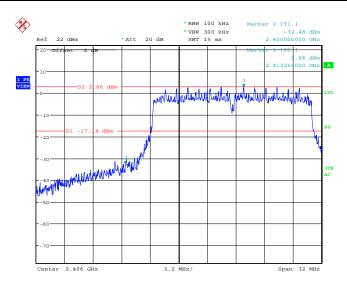


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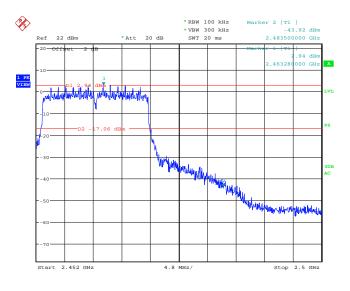






Date: 3.DEC.2010 13:22:29

Test mode: 802.11n-H20 Test channel: Highest



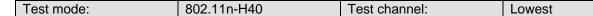
Date: 3.DEC.2010 13:35:13

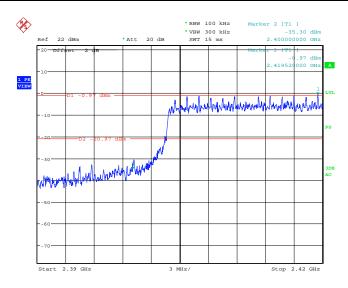
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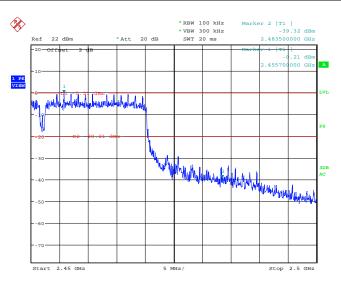






Date: 3.DEC.2010 13:40:06

Test mode: 802.11n-H40 Test channel: Highest



Date: 3.DEC.2010 13:48:40

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5.7 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	ANSI C63.4:2003 and KDB558074		
Limit:	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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 3.0dB in the spectrum analyzer.		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Refer to section 4.3 for details		
Test results:	Passed		

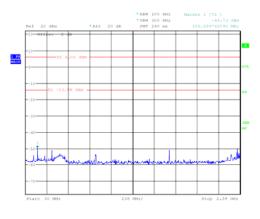
Test plot as follows:

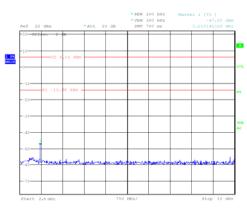
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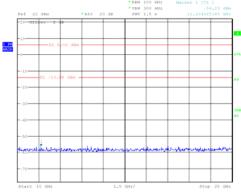






Date: 30.NOV.2010 07:57:23

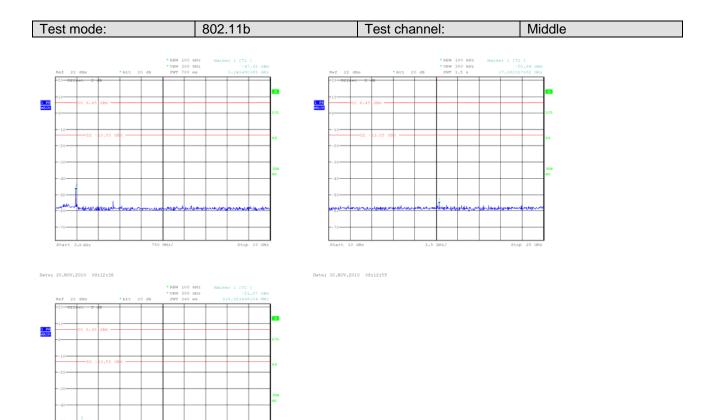
Date: 30.NOV.2010 08:20:09



Date: 30.NOV.2010 08:20:27

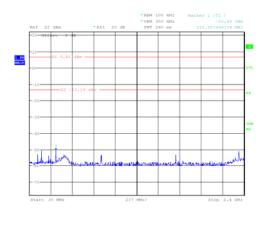
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

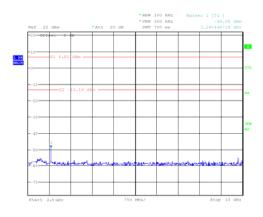






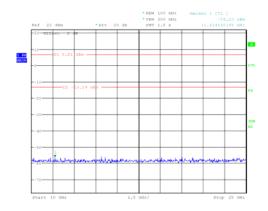
Test mode: 802.11b Test channel: Highest





Date: 30.NOV.2010 08:19:38

Date: 30.NOV.2010 08:20:09



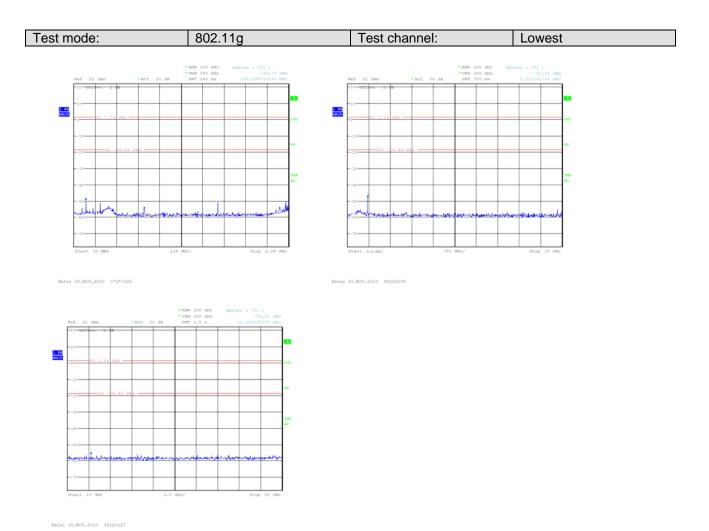
Date: 30.NOV.2010 08:20:27

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

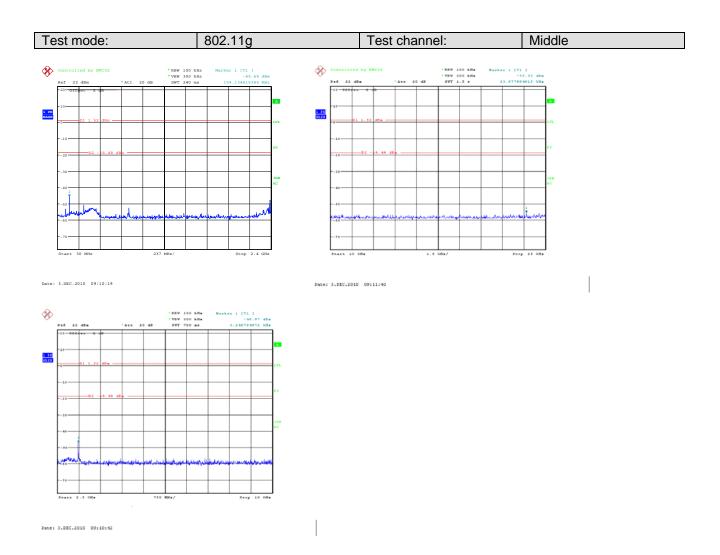
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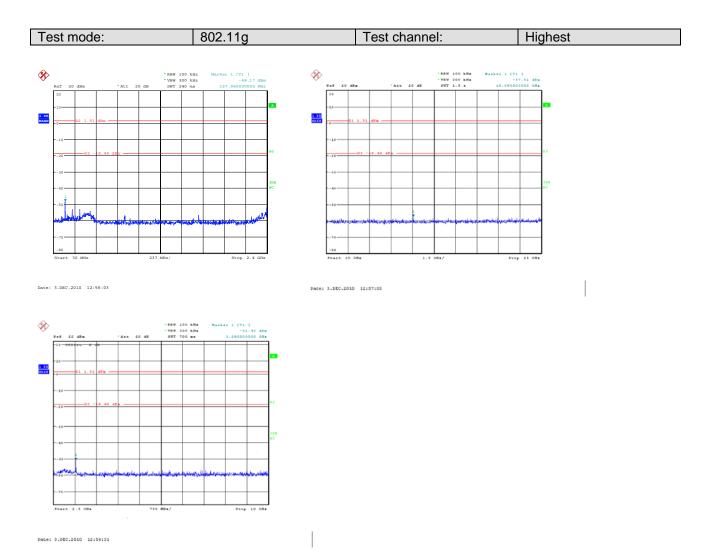




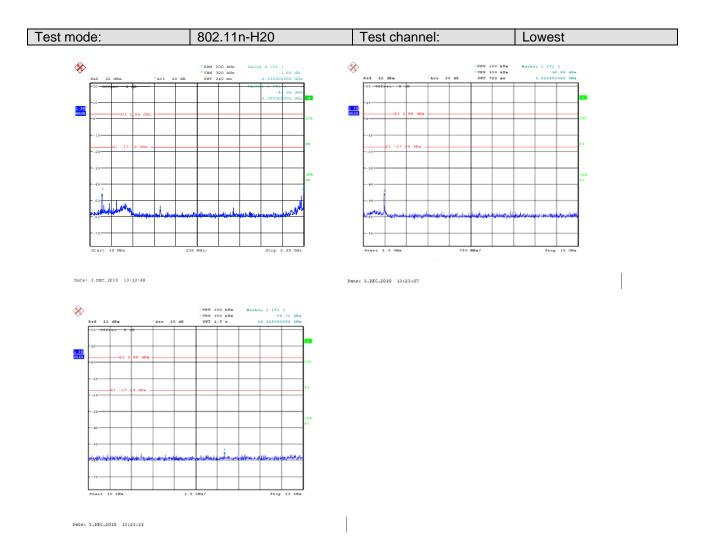




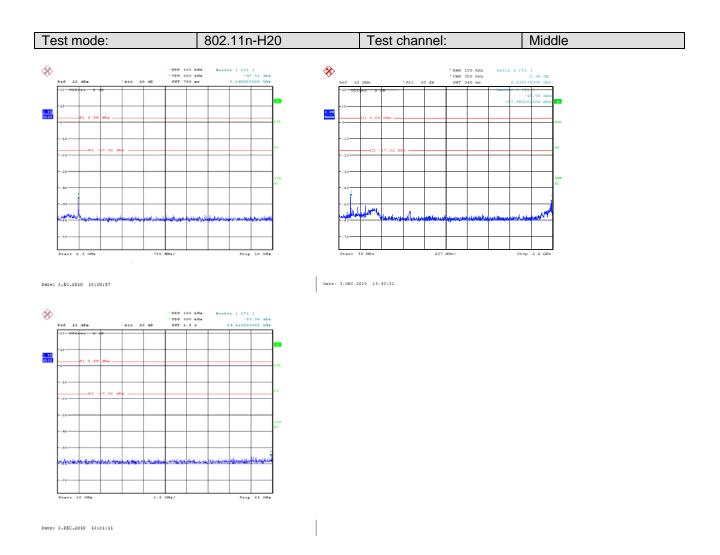




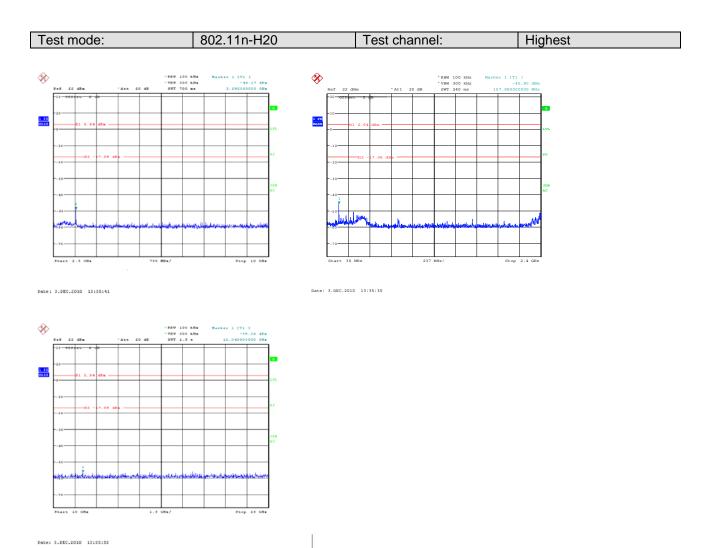






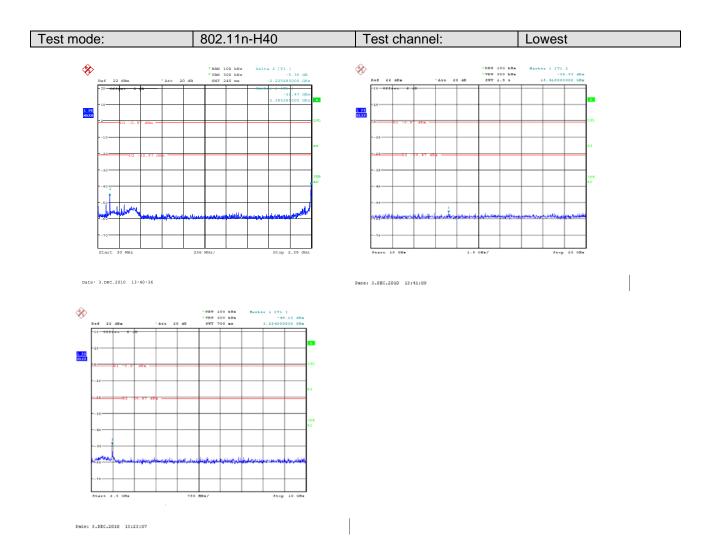




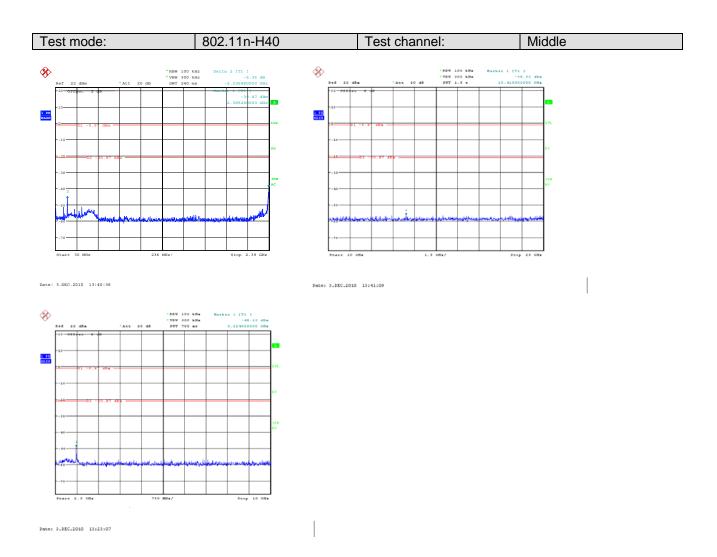


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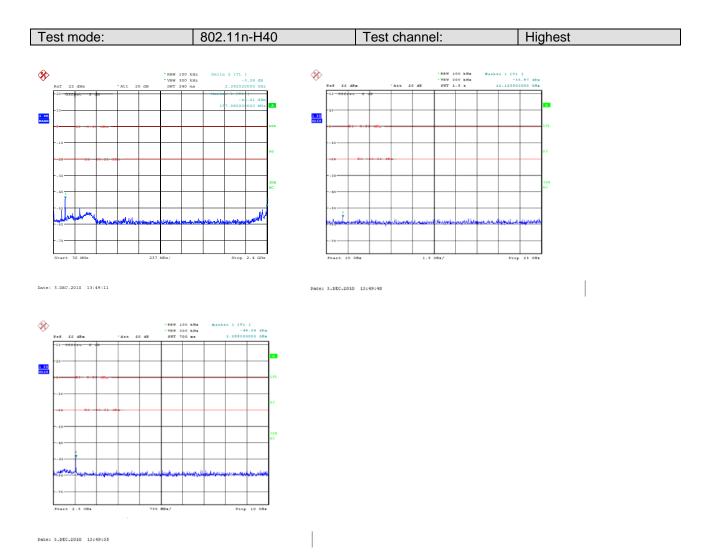














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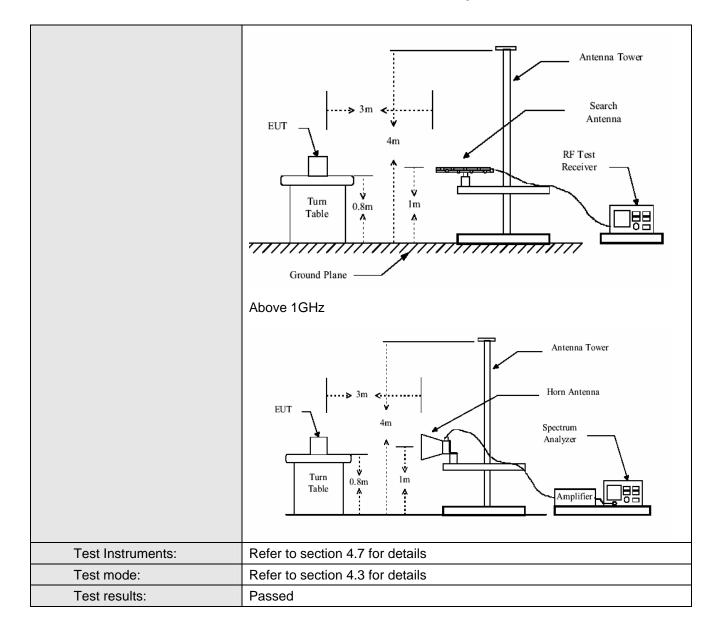
5.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205									
Test Method:	ANSI C63.4: 20	03								
Test Frequency Range:	30MHz to 25GH	lz								
Test site:	Measurement D	istance: 3m (S	emi-Anecho	ic Chambe	r)					
Receiver setup:					·					
	Frequency	Detector	RBW	VBW	Remark					
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value					
	Above 1GHz	Peak	1MHz	3MHz	Peak Value					
	715070 10112	Peak	1MHz	10Hz	Average Value					
Limit:					ı					
	Freque	-	Limit (dBuV		Remark					
	30MHz-8		40.0		Quasi-peak Value					
	88MHz-21		43.5		Quasi-peak Value					
	216MHz-9		46.0		Quasi-peak Value					
	960MHz-	960MHz-1GHz 54.0 Quasi-peak Value								
	Above 1	GHz	54.0		Average Value					
Test Procedure:	a. The EUT wa		74.0		Peak Value 0.8 meters above					
	rotated 360 radiation. b. The EUT was antenna, who tower. c. The antenna the ground to Both horizon make the m. d. For each su case and the meters and degrees to f. e. The test-recesspecified Base f. If the emission the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT whave 10dB in the limit specified Base of the EUT who was a specified Base of the EUT was a specified Base of the EUT who was a specified Base of the EUT was a specified Base o	a height is vari to determine the ntal and vertical easurement. Ispected emission the antennal the rotable table find the maximic eiver system vandwidth with later ion level of the ecified, then test would be report	s away from ted on the to ed from one te maximum al polarization, the EUT a was turned le was turned was set to Perental to the EUT in peal sting could be ted. Otherwise re-tested	the interference of a varial meter to for value of the arm of the arm of the arm of the difference of	ence-receiving able-height antenna ur meters above e field strength. Intenna are set to ged to its worst rom 1 meter to 4 egrees to 360					
Test setup:	Below 1GHz									

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Note.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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5.8.1 Radiated emission below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
180.02	41.03	11.63	1.68	25.62	28.72	43.50	-14.78	Vertical
260.14	43.70	10.30	1.98	25.60	30.38	46.00	-15.62	Vertical
312.18	43.77	12.71	2.10	25.58	33.00	46.00	-13.00	Vertical
495.93	42.75	17.56	2.39	25.55	37.15	46.00	-8.85	Vertical
506.48	41.50	18.33	2.43	25.55	36.71	46.00	-9.29	Vertical
755.39	37.09	23.56	3.06	25.52	38.19	46.00	-7.81	Vertical
312.18	38.32	16.22	2.10	25.58	31.06	46.00	-14.94	Horizontal
497.68	41.95	21.19	2.40	25.55	39.99	46.00	-6.01	Horizontal
510.04	40.20	21.72	2.44	25.55	38.81	46.00	-7.19	Horizontal
614.21	40.89	22.16	2.73	25.54	40.24	46.00	-5.76	Horizontal
729.36	39.41	21.91	3.01	25.52	38.81	46.00	-7.19	Horizontal
768.75	38.68	22.64	3.09	25.52	38.89	46.00	-7.11	Horizontal

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5.8.2 Transmitter emission above 1GHz

Test mode:	802.1	1b	Test chann	nel: Lowest		Remark:	Peal	<
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	37.46	25.63	2.43	21.35	44.17	74.00	-29.83	Vertical
2390.00	46.46	27.59	3.33	30.10	47.28	74.00	-26.72	Vertical
2400.00	51.21	27.58	3.37	30.10	52.06	74.00	-21.94	Vertical
4824.00	38.81	31.79	5.34	24.07	51.87	74.00	-22.13	Vertical
7236.00	30.32	36.19	6.88	26.44	46.95	74.00	-27.05	Vertical
9648.00	28.66	38.07	8.96	25.36	50.33	74.00	-23.67	Vertical
12060.00	27.15	39.05	10.35	25.15	51.40	74.00	-22.60	Vertical
1384.00	40.37	25.63	2.43	21.35	47.08	74.00	-26.92	Horizontal
2390.00	47.71	27.59	3.33	30.10	48.53	74.00	-25.47	Horizontal
2400.00	52.37	27.58	3.37	30.10	53.22	74.00	-20.78	Horizontal
4824.00	42.42	31.79	5.34	24.07	55.48	74.00	-18.52	Horizontal
7236.00	31.30	36.19	6.88	26.44	47.93	74.00	-26.07	Horizontal
9648.00	29.55	38.07	8.96	25.36	51.22	74.00	-22.78	Horizontal
12060.00	27.95	39.05	10.35	25.15	52.20	74.00	-21.80	Horizontal

Test mode:	802.1	1b	Test chann	el: Low	el: Lowest		Avei	rage
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	21.00	25.63	2.43	21.35	27.71	54.00	-26.29	Vertical
2390.00	30.10	27.59	3.33	30.10	30.92	54.00	-23.08	Vertical
2400.00	34.20	27.58	3.37	30.10	35.05	54.00	-18.95	Vertical
4824.00	17.57	31.79	5.34	24.07	30.63	54.00	-23.37	Vertical
7236.00	14.32	36.19	6.88	26.44	30.95	54.00	-23.05	Vertical
9648.00	12.14	38.07	8.96	25.36	33.81	54.00	-20.19	Vertical
12060.00	13.80	39.05	10.35	25.15	38.05	54.00	-15.95	Vertical
1384.00	22.34	25.63	2.43	21.35	29.05	54.00	-24.95	Horizontal
2390.00	31.35	27.59	3.33	30.10	32.17	54.00	-21.83	Horizontal
2400.00	35.36	27.58	3.37	30.10	36.21	54.00	-17.79	Horizontal
4824.00	23.64	31.79	5.34	24.07	36.70	54.00	-17.30	Horizontal
7236.00	15.30	36.19	6.88	26.44	31.93	54.00	-22.07	Horizontal
9648.00	13.03	38.07	8.96	25.36	34.70	54.00	-19.30	Horizontal
12060.00	14.60	39.05	10.35	25.15	38.85	54.00	-15.15	Horizontal

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Test mode:	802.1	1b	Test chann	el: Middl	е	Remark:	Pea	k
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	41.76	25.09	2.61	28.59	40.87	74.00	-33.13	Vertical
4874.00	39.33	31.85	5.40	24.01	52.57	74.00	-21.43	Vertical
7311.00	28.74	36.37	6.90	26.58	45.43	74.00	-28.57	Vertical
9688.00	24.76	38.13	8.98	25.34	46.53	74.00	-27.47	Vertical
12185.00	25.48	38.92	10.38	25.04	49.74	74.00	-24.26	Vertical
14622.00	22.29	42.33	11.91	24.45	52.08	74.00	-21.92	Vertical
1754.00	46.64	25.09	2.61	28.59	45.75	74.00	-28.25	Horizontal
4874.00	43.79	31.85	5.40	24.01	57.03	74.00	-16.97	Horizontal
7311.00	29.07	36.37	6.90	26.58	45.76	74.00	-28.24	Horizontal
9688.00	25.20	38.13	8.98	25.34	46.97	74.00	-27.03	Horizontal
12185.00	26.03	38.92	10.38	25.04	50.29	74.00	-23.71	Horizontal
14622.00	22.95	42.33	11.91	24.45	52.74	74.00	-21.26	Horizontal

Test mode:	802.1	1b -	Test chann	el: Mid	el: Middle		Ave	rage
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	28.00	25.09	2.61	28.59	27.11	54.00	-26.89	Vertical
4874.00	19.11	31.85	5.40	24.01	32.35	54.00	-21.65	Vertical
7311.00	15.64	36.37	6.90	26.58	32.33	54.00	-21.67	Vertical
9688.00	12.53	38.13	8.98	25.34	34.30	54.00	-19.70	Vertical
12185.00	13.36	38.92	10.38	25.04	37.62	54.00	-16.38	Vertical
14622.00	10.28	42.33	11.91	24.45	40.07	54.00	-13.93	Vertical
1754.00	28.11	25.09	2.61	28.59	27.22	54.00	-26.78	Horizontal
4874.00	23.07	31.85	5.40	24.01	36.31	54.00	-17.69	Horizontal
7311.00	15.97	36.37	6.90	26.58	32.66	54.00	-21.34	Horizontal
9688.00	12.97	38.13	8.98	25.34	34.74	54.00	-19.26	Horizontal
12185.00	13.91	38.92	10.38	25.04	38.17	54.00	-15.83	Horizontal
14622.00	10.94	42.33	11.91	24.45	40.73	54.00	-13.27	Horizontal

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Test mode:	802.1	1b	Test chann	nel: Highest		Remark:	Peal	k
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1648.00	41.58	24.87	2.55	27.09	41.91	74.00	-32.09	Vertical
2483.50	47.00	27.53	3.49	29.93	48.09	74.00	-25.91	Vertical
2500.00	51.49	27.55	3.52	30.70	51.86	74.00	-22.14	Vertical
4924.00	37.09	31.89	5.46	23.96	50.48	74.00	-23.52	Vertical
7386.00	27.82	36.49	6.93	26.79	44.45	74.00	-29.55	Vertical
12310.00	25.30	38.83	10.41	24.90	49.64	74.00	-24.36	Vertical
14772.00	21.29	41.82	12.18	24.52	50.77	74.00	-23.23	Vertical
1648.00	42.92	24.87	2.55	27.09	43.25	74.00	-30.75	Horizontal
2483.50	48.30	27.53	3.49	29.93	49.39	74.00	-24.61	Horizontal
2500.00	52.75	27.55	3.52	30.70	53.12	74.00	-20.88	Horizontal
4924.00	37.92	31.89	5.46	23.96	51.31	74.00	-22.69	Horizontal
7386.00	29.00	36.49	6.93	26.79	45.63	74.00	-28.37	Horizontal
12310.00	26.44	38.83	10.41	24.90	50.78	74.00	-23.22	Horizontal
14772.00	22.39	41.82	12.18	24.52	51.87	74.00	-22.13	Horizontal

Test mode	: 8	02.11b	Test chan	nel:	ŀ	lighest	Rema	rk:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Factor		Level (dBuV/m)	Limit Lin (dBuV/m	e L	over imit dB)	polarization
1648.00	23.99	24.87	2.55	27.0	9	24.32	54.00	-2	9.68	Vertical
2483.50	33.86	27.53	3.49	29.9	3	34.95	54.00	-1	9.05	Vertical
2500.00	29.88	27.55	3.52	30.7	0	30.25	54.00	-2	3.75	Vertical
4924.00	18.72	31.89	5.46	23.9	6	32.11	54.00	-2	1.89	Vertical
7386.00	15.70	36.49	6.93	26.7	9	32.33	54.00	-2	1.67	Vertical
12310.00	13.29	38.83	10.41	24.9	0	37.63	54.00	-1	6.37	Vertical
14772.00	10.53	41.82	12.18	24.5	2	40.01	54.00	-1	3.99	Vertical
1648.00	25.33	24.87	2.55	27.0	9	25.66	54.00	-2	8.34	Horizontal
2483.50	35.16	27.53	3.49	29.9	3	36.25	54.00	-1	7.75	Horizontal
2500.00	31.14	27.55	3.52	30.7	0	31.51	54.00	-2	2.49	Horizontal
4924.00	23.18	31.89	5.46	23.9	6	36.57	54.00	-1	7.43	Horizontal
7386.00	16.88	36.49	6.93	26.7	9	33.51	54.00	-2	0.49	Horizontal
12310.00	14.43	38.83	10.41	24.9	0	38.77	54.00	-1	5.23	Horizontal
14772.00	11.63	41.82	12.18	24.5	2	41.11	54.00	-1	2.89	Horizontal

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Test mode:	802.1	1g	Test chann	el: Lowe	el: Lowest		Peal	k
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	31.98	25.63	2.43	21.35	38.69	74.00	-35.31	Vertical
2390.00	44.91	27.59	3.33	30.10	45.73	74.00	-28.27	Vertical
2400.00	49.59	27.58	3.37	30.10	50.44	74.00	-23.56	Vertical
4824.00	32.14	31.79	5.34	24.07	45.20	74.00	-28.80	Vertical
7236.00	28.56	36.19	6.88	26.44	45.19	74.00	-28.81	Vertical
9648.00	26.83	38.07	8.96	25.36	48.50	74.00	-25.50	Vertical
12060.00	25.25	39.05	10.35	25.15	49.50	74.00	-24.50	Vertical
1384.00	38.48	25.63	2.43	21.35	45.19	74.00	-28.81	Horizontal
2390.00	46.35	27.59	3.33	30.10	47.17	74.00	-26.83	Horizontal
2400.00	50.97	27.58	3.37	30.10	51.82	74.00	-22.18	Horizontal
4824.00	42.51	31.79	5.34	24.07	55.57	74.00	-18.43	Horizontal
7236.00	29.82	36.19	6.88	26.44	46.45	74.00	-27.55	Horizontal
9648.00	28.03	38.07	8.96	25.36	49.70	74.00	-24.30	Horizontal
12060.00	26.39	39.05	10.35	25.15	50.64	74.00	-23.36	Horizontal

Test mode	: 80	02.11g	Test chan	nel:	Lowest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	20.66	25.63	2.43	21.35	27.37	54.00	-26.63	Vertical
2390.00	30.17	27.59	3.33	30.10	30.99	54.00	-23.01	Vertical
2400.00	34.68	27.58	3.37	30.10	35.53	54.00	-18.47	Vertical
4824.00	18.46	31.79	5.34	24.07	31.52	54.00	-22.48	Vertical
7236.00	15.62	36.19	6.88	26.44	32.25	54.00	-21.75	Vertical
9648.00	13.85	38.07	8.96	25.36	35.52	54.00	-18.48	Vertical
12060.00	15.92	39.05	10.35	25.15	40.17	54.00	-13.83	Vertical
1384.00	22.51	25.63	2.43	21.35	29.22	54.00	-24.78	Horizontal
2390.00	32.05	27.59	3.33	30.10	32.87	54.00	-21.13	Horizontal
2400.00	36.59	27.58	3.37	30.10	37.44	54.00	-16.56	Horizontal
4824.00	27.99	31.79	5.34	24.07	41.05	54.00	-12.95	Horizontal
7236.00	17.59	36.19	6.88	26.44	34.22	54.00	-19.78	Horizontal
9648.00	15.85	38.07	8.96	25.36	37.52	54.00	-16.48	Horizontal
12060.00	17.95	39.05	10.35	25.15	42.20	54.00	-11.80	Horizontal

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Project No.: GTSE101100333RF

Test mode	: 8	02.11g	Test chan	nel:	Middle	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	41.15	25.09	2.61	28.59	40.26	74.00	-33.74	Vertical
4874.00	33.63	31.85	5.40	24.01	46.87	74.00	-27.13	Vertical
7311.00	28.23	36.37	6.90	26.58	44.92	74.00	-29.08	Vertical
9688.00	24.30	38.13	8.98	25.34	46.07	74.00	-27.93	Vertical
12185.00	25.07	38.92	10.38	25.04	49.33	74.00	-24.67	Vertical
14622.00	21.93	42.33	11.91	24.45	51.72	74.00	-22.28	Vertical
1754.00	41.36	25.09	2.61	28.59	40.47	74.00	-33.53	Horizontal
4874.00	42.46	31.85	5.40	24.01	55.70	74.00	-18.30	Horizontal
7311.00	28.46	36.37	6.90	26.58	45.15	74.00	-28.85	Horizontal
9688.00	24.54	38.13	8.98	25.34	46.31	74.00	-27.69	Horizontal
12185.00	25.32	38.92	10.38	25.04	49.58	74.00	-24.42	Horizontal
14622.00	22.19	42.33	11.91	24.45	51.98	74.00	-22.02	Horizontal

Test mode	: 80	02.11g	Test chan	nel:	Middle	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	28.67	25.09	2.61	28.59	27.78	54.00	-26.22	Vertical
4874.00	20.31	31.85	5.40	24.01	33.55	54.00	-20.45	Vertical
7311.00	17.37	36.37	6.90	26.58	34.06	54.00	-19.94	Vertical
9688.00	14.79	38.13	8.98	25.34	36.56	54.00	-17.44	Vertical
12185.00	16.15	38.92	10.38	25.04	40.41	54.00	-13.59	Vertical
14622.00	13.60	42.33	11.91	24.45	43.39	54.00	-10.61	Vertical
1754.00	28.66	25.09	2.61	28.59	27.77	54.00	-26.23	Horizontal
4874.00	25.53	31.85	5.40	24.01	38.77	54.00	-15.23	Horizontal
7311.00	17.16	36.37	6.90	26.58	33.85	54.00	-20.15	Horizontal
9688.00	14.48	38.13	8.98	25.34	36.25	54.00	-17.75	Horizontal
12185.00	15.74	38.92	10.38	25.04	40.00	54.00	-14.00	Horizontal
14622.00	13.09	42.33	11.91	24.45	42.88	54.00	-11.12	Horizontal

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Test mode	: 80	02.11g	Test chan	nel: l	Highest	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1648.00	36.27	24.87	2.55	27.09	36.60	74.00	-37.40	Vertical
2483.50	45.74	27.53	3.49	29.93	46.83	74.00	-27.17	Vertical
2500.00	50.28	27.55	3.52	30.70	50.65	74.00	-23.35	Vertical
4924.00	29.79	31.89	5.46	23.96	43.18	74.00	-30.82	Vertical
7386.00	26.71	36.49	6.93	26.79	43.34	74.00	-30.66	Vertical
12310.00	24.24	38.83	10.41	24.90	48.58	74.00	-25.42	Vertical
14772.00	20.28	41.82	12.18	24.52	49.76	74.00	-24.24	Vertical
1648.00	37.91	24.87	2.55	27.09	38.24	74.00	-35.76	Horizontal
2483.50	47.24	27.53	3.49	29.93	48.33	74.00	-25.67	Horizontal
2500.00	51.64	27.55	3.52	30.70	52.01	74.00	-21.99	Horizontal
4924.00	42.05	31.89	5.46	23.96	55.44	74.00	-18.56	Horizontal
7386.00	27.79	36.49	6.93	26.79	44.42	74.00	-29.58	Horizontal
12310.00	25.18	38.83	10.41	24.90	49.52	74.00	-24.48	Horizontal
14772.00	21.08	41.82	12.18	24.52	50.56	74.00	-23.44	Horizonta

Test mode	: 80	02.11g	Test chan	nel: H	lighest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1648.00	25.10	24.87	2.55	27.09	25.43	54.00	-28.57	Vertical
2483.50	35.28	27.53	3.49	29.93	36.37	54.00	-17.63	Vertical
2500.00	31.61	27.55	3.52	30.70	31.98	54.00	-22.02	Vertical
4924.00	20.76	31.89	5.46	23.96	34.15	54.00	-19.85	Vertical
7386.00	18.05	36.49	6.93	26.79	34.68	54.00	-19.32	Vertical
12310.00	15.95	38.83	10.41	24.90	40.29	54.00	-13.71	Vertical
14772.00	13.50	41.82	12.18	24.52	42.98	54.00	-11.02	Vertical
1648.00	25.28	24.87	2.55	27.09	25.61	54.00	-28.39	Horizontal
2483.50	35.49	27.53	3.49	29.93	36.58	54.00	-17.42	Horizontal
2500.00	31.85	27.55	3.52	30.70	32.22	54.00	-21.78	Horizontal
4924.00	25.73	31.89	5.46	23.96	39.12	54.00	-14.88	Horizontal
7386.00	18.35	36.49	6.93	26.79	34.98	54.00	-19.02	Horizontal
12310.00	16.28	38.83	10.41	24.90	40.62	54.00	-13.38	Horizontal
14772.00	13.86	41.82	12.18	24.52	43.34	54.00	-10.66	Horizontal

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Project No.: GTSE101100333RF

Test mode:	802.1	1n-H20	Test chann	el: Lowe	est	Remark:	Pea	k
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	38.47	25.63	2.43	21.35	45.18	74.00	-28.82	Vertical
2390.00	32.22	27.59	3.33	30.10	33.04	74.00	-40.96	Vertical
2400.00	45.17	27.58	3.37	30.10	46.02	74.00	-27.98	Vertical
4824.00	49.87	31.79	5.34	24.07	62.93	74.00	-11.07	Vertical
7236.00	34.44	36.19	6.88	26.44	51.07	74.00	-22.93	Vertical
9648.00	28.88	38.07	8.96	25.36	50.55	74.00	-23.45	Vertical
12060.00	27.17	39.05	10.35	25.15	51.42	74.00	-22.58	Vertical
1384.00	38.56	25.63	2.43	21.35	45.27	74.00	-28.73	Horizontal
2390.00	46.51	27.59	3.33	30.10	47.33	74.00	-26.67	Horizontal
2400.00	51.21	27.58	3.37	30.10	52.06	74.00	-21.94	Horizontal
4824.00	41.95	31.79	5.34	24.07	55.01	74.00	-18.99	Horizontal
7236.00	30.22	36.19	6.88	26.44	46.85	74.00	-27.15	Horizontal
9648.00	28.51	38.07	8.96	25.36	50.18	74.00	-23.82	Horizontal
12060.00	26.95	39.05	10.35	25.15	51.20	74.00	-22.80	Horizontal

Test mode	: 802	.11n-H20	Test chan	nel:	Lowest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1384.00	28.67	25.63	2.43	21.35	35.38	54.00	-18.62	Vertical
2390.00	32.38	27.59	3.33	30.10	33.20	54.00	-20.80	Vertical
2400.00	36.91	27.58	3.37	30.10	37.76	54.00	-16.24	Vertical
4824.00	28.44	31.79	5.34	24.07	41.50	54.00	-12.50	Vertical
7236.00	19.24	36.19	6.88	26.44	35.87	54.00	-18.13	Vertical
9648.00	18.42	38.07	8.96	25.36	40.09	54.00	-13.91	Vertical
12060.00	17.67	39.05	10.35	25.15	41.92	54.00	-12.08	Vertical
1384.00	26.25	25.63	2.43	21.35	32.96	54.00	-21.04	Horizontal
2390.00	31.84	27.59	3.33	30.10	32.66	54.00	-21.34	Horizontal
2400.00	32.46	27.58	3.37	30.10	33.31	54.00	-20.69	Horizontal
4824.00	37.08	31.79	5.34	24.07	50.14	54.00	-3.86	Horizontal
7236.00	27.97	36.19	6.88	26.44	44.60	54.00	-9.40	Horizontal
9648.00	18.24	38.07	8.96	25.36	39.91	54.00	-14.09	Horizontal
12060.00	16.58	39.05	10.35	25.15	40.83	54.00	-13.17	Horizontal

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Test mode	:	802.11n-H20	Test chan	nel:	Middle	Remark:		Peak
Frequency (MHz)	Read Level (dBuV	Factor	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	43.27	25.09	2.61	28.59	42.38	74.00	-31.62	Vertical
4874.00	39.98	31.85	5.40	24.01	53.22	74.00	-20.78	Vertical
7311.00	32.44	36.37	6.90	26.58	49.13	74.00	-24.87	Vertical
9688.00	27.02	38.13	8.98	25.34	48.79	74.00	-25.21	Vertical
12185.00	23.07	38.92	10.38	25.04	47.33	74.00	-26.67	Vertical
14622.00	23.82	42.33	11.91	24.45	53.61	74.00	-20.39	Vertical
1754.00	43.93	25.09	2.61	28.59	43.04	74.00	-30.96	Horizontal
4874.00	43.26	31.85	5.40	24.01	56.50	74.00	-17.50	Horizontal
7311.00	28.19	36.37	6.90	26.58	44.88	74.00	-29.12	Horizontal
9688.00	24.35	38.13	8.98	25.34	46.12	74.00	-27.88	Horizontal
12185.00	25.21	38.92	10.38	25.04	49.47	74.00	-24.53	Horizontal
14622.00	22.16	42.33	11.91	24.45	51.95	74.00	-22.05	Horizontal

Test mode	: 802	.11n-H20	Test chan	nel:	Middle	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	29.01	25.09	2.61	28.59	28.12	54.00	-25.88	Vertical
4874.00	27.98	31.85	5.40	24.01	41.22	54.00	-12.78	Vertical
7311.00	19.60	36.37	6.90	26.58	36.29	54.00	-17.71	Vertical
9688.00	16.64	38.13	8.98	25.34	38.41	54.00	-15.59	Vertical
12185.00	17.04	38.92	10.38	25.04	41.30	54.00	-12.70	Vertical
14622.00	15.38	42.33	11.91	24.45	45.17	54.00	-8.83	Vertical
1754.00	28.56	25.09	2.61	28.59	27.67	54.00	-26.33	Horizontal
4874.00	28.42	31.85	5.40	24.01	41.66	54.00	-12.34	Horizontal
7311.00	25.04	36.37	6.90	26.58	41.73	54.00	-12.27	Horizontal
9688.00	17.08	38.13	8.98	25.34	38.85	54.00	-15.15	Horizontal
12185.00	14.48	38.92	10.38	25.04	38.74	54.00	-15.26	Horizontal
14622.00	15.82	42.33	11.91	24.45	45.61	54.00	-8.39	Horizontal

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Test mode	: 802	.11n-H20	Test chan	nel: l	Highest	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1648.00	42.21	24.87	2.55	27.09	42.54	74.00	-31.46	Vertical
2483.50	36.37	27.53	3.49	29.93	37.46	74.00	-36.54	Vertical
2500.00	45.77	27.55	3.52	30.70	46.14	74.00	-27.86	Vertical
4924.00	50.24	31.89	5.46	23.96	63.63	74.00	-10.37	Vertical
7386.00	33.68	36.49	6.93	26.79	50.31	74.00	-23.69	Vertical
12310.00	26.53	38.83	10.41	24.90	50.87	74.00	-23.13	Vertical
14772.00	23.99	41.82	12.18	24.52	53.47	74.00	-20.53	Vertical
1648.00	44.91	24.87	2.55	27.09	45.24	74.00	-28.76	Horizontal
2483.50	47.27	27.53	3.49	29.93	48.36	74.00	-25.64	Horizontal
2500.00	51.70	27.55	3.52	30.70	52.07	74.00	-21.93	Horizontal
4924.00	40.25	31.89	5.46	23.96	53.64	74.00	-20.36	Horizontal
7386.00	27.91	36.49	6.93	26.79	44.54	74.00	-29.46	Horizontal
12310.00	25.33	38.83	10.41	24.90	49.67	74.00	-24.33	Horizontal
14772.00	21.26	41.82	12.18	24.52	50.74	74.00	-23.26	Horizontal

Test mode	: 802.	.11n-H20	Test chan	nel: H	Highest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1648.00	31.21	24.87	2.55	27.09	31.54	54.00	-22.46	Vertical
2483.50	36.46	27.53	3.49	29.93	37.55	54.00	-16.45	Vertical
2500.00	35.57	27.55	3.52	30.70	35.94	54.00	-18.06	Vertical
4924.00	31.83	31.89	5.46	23.96	45.22	54.00	-8.78	Vertical
7386.00	20.91	36.49	6.93	26.79	37.54	54.00	-16.46	Vertical
12310.00	18.13	38.83	10.41	24.90	42.47	54.00	-11.53	Vertical
14772.00	15.96	41.82	12.18	24.52	45.44	54.00	-8.56	Vertical
1648.00	29.53	24.87	2.55	27.09	29.86	54.00	-24.14	Horizontal
2483.50	34.51	27.53	3.49	29.93	35.60	54.00	-18.40	Horizontal
2500.00	30.75	27.55	3.52	30.70	31.12	54.00	-22.88	Horizontal
4924.00	23.14	31.89	5.46	23.96	36.53	54.00	-17.47	Horizontal
7386.00	26.35	36.49	6.93	26.79	42.98	54.00	-11.02	Horizontal
12310.00	18.70	38.83	10.41	24.90	43.04	54.00	-10.96	Horizontal
14772.00	16.66	41.82	12.18	24.52	46.14	54.00	-7.86	Horizontal

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Test mode:	802.1	1n-H40	Test chann	el: Lowe	est	Remark:	Pea	k
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1725.00	43.78	25.02	2.59	28.36	43.03	74.00	-30.97	Vertical
2390.00	45.33	27.59	3.33	30.10	46.15	74.00	-27.85	Vertical
2400.00	48.68	27.58	3.37	30.10	49.53	74.00	-24.47	Vertical
4844.00	40.35	31.82	5.36	24.05	53.48	74.00	-20.52	Vertical
7266.00	26.17	36.28	6.89	26.51	42.83	74.00	-31.17	Vertical
12110.00	23.19	38.98	10.37	25.11	47.43	74.00	-26.57	Vertical
14532.00	20.81	42.55	11.78	24.38	50.76	74.00	-23.24	Vertical
1725.00	47.28	25.02	2.59	28.36	46.53	74.00	-27.47	Horizontal
2390.00	46.77	27.59	3.33	30.10	47.59	74.00	-26.41	Horizontal
2400.00	50.06	27.58	3.37	30.10	50.91	74.00	-23.09	Horizontal
4844.00	42.09	31.82	5.36	24.05	55.22	74.00	-18.78	Horizontal
7266.00	27.43	36.28	6.89	26.51	44.09	74.00	-29.91	Horizontal
12110.00	24.39	38.98	10.37	25.11	48.63	74.00	-25.37	Horizontal
14532.00	21.95	42.55	11.78	24.38	51.90	74.00	-22.10	Horizontal

Test mode	: 802	.11n-H40	Test chan	nel: L	_owest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1725.00	30.66	25.02	2.59	28.36	29.91	54.00	-24.09	Vertical
2390.00	28.60	27.59	3.33	30.10	29.42	54.00	-24.58	Vertical
2400.00	34.26	27.58	3.37	30.10	35.11	54.00	-18.89	Vertical
4844.00	20.62	31.82	5.36	24.05	33.75	54.00	-20.25	Vertical
7266.00	18.51	36.28	6.89	26.51	35.17	54.00	-18.83	Vertical
12110.00	15.22	38.98	10.37	25.11	39.46	54.00	-14.54	Vertical
14532.00	13.44	42.55	11.78	24.38	43.39	54.00	-10.61	Vertical
1725.00	29.51	25.02	2.59	28.36	28.76	54.00	-25.24	Horizontal
2390.00	29.38	27.59	3.33	30.10	30.20	54.00	-23.80	Horizontal
2400.00	34.97	27.58	3.37	30.10	35.82	54.00	-18.18	Horizontal
4844.00	29.59	31.82	5.36	24.05	42.72	54.00	-11.28	Horizontal
7266.00	19.08	36.28	6.89	26.51	35.74	54.00	-18.26	Horizontal
12110.00	15.72	38.98	10.37	25.11	39.96	54.00	-14.04	Horizontal
14532.00	13.87	42.55	11.78	24.38	43.82	54.00	-10.18	Horizontal

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Test mode	: 80	2.11n-H40	Test chan	nel:	Middle	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	45.93	25.09	2.61	28.59	45.04	74.00	-28.96	Vertical
4874.00	39.75	31.85	5.40	24.01	52.99	74.00	-21.01	Vertical
7311.00	29.25	36.37	6.90	26.58	45.94	74.00	-28.06	Vertical
9688.00	25.44	38.13	8.98	25.34	47.21	74.00	-26.79	Vertical
12185.00	26.33	38.92	10.38	25.04	50.59	74.00	-23.41	Vertical
14622.00	23.31	42.33	11.91	24.45	53.10	74.00	-20.90	Vertical
1754.00	45.14	25.09	2.61	28.59	44.25	74.00	-29.75	Horizontal
4874.00	42.79	31.85	5.40	24.01	56.03	74.00	-17.97	Horizontal
7311.00	29.48	36.37	6.90	26.58	46.17	74.00	-27.83	Horizontal
9688.00	25.68	38.13	8.98	25.34	47.45	74.00	-26.55	Horizontal
12185.00	26.58	38.92	10.38	25.04	50.84	74.00	-23.16	Horizontal
14622.00	23.57	42.33	11.91	24.45	53.36	74.00	-20.64	Horizontal

Test mode	: 802	.11n-H40	Test chan	nel:	Middle	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1754.00	29.65	25.09	2.61	28.59	28.76	54.00	-25.24	Vertical
4874.00	23.84	31.85	5.40	24.01	37.08	54.00	-16.92	Vertical
7311.00	19.15	36.37	6.90	26.58	35.84	54.00	-18.16	Vertical
9688.00	15.93	38.13	8.98	25.34	37.70	54.00	-16.30	Vertical
12185.00	17.41	38.92	10.38	25.04	41.67	54.00	-12.33	Vertical
14622.00	14.98	42.33	11.91	24.45	44.77	54.00	-9.23	Vertical
1754.00	28.64	25.09	2.61	28.59	27.75	54.00	-26.25	Horizontal
4874.00	27.53	31.85	5.40	24.01	40.77	54.00	-13.23	Horizontal
7311.00	18.94	36.37	6.90	26.58	35.63	54.00	-18.37	Horizontal
9688.00	15.62	38.13	8.98	25.34	37.39	54.00	-16.61	Horizontal
12185.00	17.00	38.92	10.38	25.04	41.26	54.00	-12.74	Horizontal
14622.00	14.47	42.33	11.91	24.45	44.26	54.00	-9.74	Horizontal

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Test mode: 802		.11n-H40	Test chan	nel: H	Highest	Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1954.00	44.76	25.95	2.74	30.69	42.76	74.00	-31.24	Vertical	
2483.50	47.34	27.53	3.49	29.93	48.43	74.00	-25.57	Vertical	
2500.00	44.37	27.55	3.52	30.70	44.74	74.00	-29.26	Vertical	
4904.00	38.68	31.88	5.42	23.97	52.01	74.00	-21.99	Vertical	
7356.00	28.55	36.45	6.92	26.70	45.22	74.00	-28.78	Vertical	
9748.00	26.16	38.27	9.00	25.30	48.13	74.00	-25.87	Vertical	
12260.00	24.91	38.86	10.40	24.97	49.20	74.00	-24.80	Vertical	
14712.00	22.22	42.08	12.07	24.50	51.87	74.00	-22.13	Vertical	
1954.00	46.40	25.95	2.74	30.69	44.40	74.00	-29.60	Horizontal	
2483.50	48.84	27.53	3.49	29.93	49.93	74.00	-24.07	Horizontal	
2500.00	45.73	27.55	3.52	30.70	46.10	74.00	-27.90	Horizontal	
4904.00	42.25	31.88	5.42	23.97	55.58	74.00	-18.42	Horizontal	
7356.00	29.63	36.45	6.92	26.70	46.30	74.00	-27.70	Horizontal	
9748.00	27.10	38.27	9.00	25.30	49.07	74.00	-24.93	Horizontal	
12260.00	25.71	38.86	10.40	24.97	50.00	74.00	-24.00	Horizontal	
14712.00	22.88	42.08	12.07	24.50	52.53	74.00	-21.47	Horizontal	

Test mode: 802.		.11n-H40	Test chan	nel: H	Highest	Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1954.00	31.62	25.95	2.74	30.69	29.62	54.00	-24.38	Vertical	
2483.50	37.88	27.53	3.49	29.93	38.97	54.00	-15.03	Vertical	
2500.00	36.69	27.55	3.52	30.70	37.06	54.00	-16.94	Vertical	
4904.00	23.52	31.88	5.42	23.97	36.85	54.00	-17.15	Vertical	
7356.00	20.89	36.45	6.92	26.70	37.56	54.00	-16.44	Vertical	
9748.00	18.87	38.27	9.00	25.30	40.84	54.00	-13.16	Vertical	
12260.00	17.99	38.86	10.40	24.97	42.28	54.00	-11.72	Vertical	
14712.00	13.67	42.08	12.07	24.50	43.32	54.00	-10.68	Vertical	
1954.00	27.80	25.95	2.74	30.69	25.80	54.00	-28.20	Horizontal	
2483.50	37.09	27.53	3.49	29.93	38.18	54.00	-15.82	Horizontal	
2500.00	35.93	27.55	3.52	30.70	36.30	54.00	-17.70	Horizontal	
4904.00	29.17	31.88	5.42	23.97	42.50	54.00	-11.50	Horizontal	
7356.00	20.19	36.45	6.92	26.70	36.86	54.00	-17.14	Horizontal	
9748.00	18.20	38.27	9.00	25.30	40.17	54.00	-13.83	Horizontal	
12260.00	17.35	38.86	10.40	24.97	41.64	54.00	-12.36	Horizontal	
14712.00	13.06	42.08	12.07	24.50	42.71	54.00	-11.29	Horizontal	

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