

FCC PART 15 SUBPART C TEST REPORT

For

Tablet Computer

Model No.: DR10

FCC ID: IR5DR10

of

Applicant: MilDef Crete Inc.

**Address: 7F, No.250, Sec.3, Pei Shen Rd., Shen Keng District,
New Taipei City Taiwan R.O.C.**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21304-13125-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

Tester:

June 03, 2013	Rick Chen	<i>Rick Chen.</i>
_____	_____	_____
Date	WTS-Lab. Name	Signature

Technical responsibility for area of testing:

June 03, 2013	Danny Sung	<i>Danny Sung</i>
_____	_____	_____
Date	WTS Name	Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1



Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

1.3 Details of approval holder

Name: MilDef Crete Inc.

Street: 7F, No.250, Sec.3, Pei Shen Rd., Shen Keng District,

Town: New Taipei City

Country: Taiwan R.O.C.

Telephone: + 886-2-2662-6074

Fax: + 886-2-2664-2662



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1.4 Application details

Date of receipt of test item: April 12, 2013
Date of test: from April 15, 2013 to June 03, 2013

1.5 General information of Test item

Type of test item: Tablet Computer
Model Number: DR10
Brand Name: ./.
Multi-listing model number: ./.
Photos: see Appendix

Technical data

Frequency band: 5.745 GHz-5.825GHz, 2.4 GHz-2.483.5 GHz

802.11a

Frequency (ch 149): 5.745 GHz
Frequency (ch 157): 5.785 GHz
Frequency (ch 165): 5.825 GHz

11n 20MHz

Frequency (ch 149): 5.745 GHz
Frequency (ch 157): 5.785 GHz
Frequency (ch 165): 5.825 GHz

11n 40MHz

Frequency (ch 151): 5.755 GHz
Frequency (ch 159): 5.795 GHz

802.11b, g, n 20MHz

Frequency (ch 1): 2.412 GHz
Frequency (ch 6): 2.437 GHz
Frequency (ch 11): 2.462 GHz

11n 40MHz

Frequency (ch 1): 2.422 GHz
Frequency (ch 4): 2.437 GHz
Frequency (ch 7): 2.452 GHz



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Bluetooth 2.0 Normal, EDR

Frequency (ch 0): 2.402 GHz
Frequency (ch 39): 2.441 GHz
Frequency (ch 78): 2.480 GHz

Bluetooth 4.0

Frequency (ch 0): 2.402 GHz
Frequency (ch 19): 2.440 GHz
Frequency (ch 39): 2.480 GHz

Number of Channels: 11a, 11n 20MHz : 5 channels
11n 40MHz: 2 channels
11b, 11g, 11n 20MHz: 11 channels
11n 40MHz: 7 channels
Bluetooth 2.0: 79 channels
Bluetooth 4.0: 40 channels

Operation modes: duplex

Modulation Type: DSSS/OFDM、GFSK、 $\pi/4$ DQPSK、8DPSK

Fixed point-to-point operation: Yes / No

Type of Antenna: ANT A & ANT B: PIFA Antenna

Antenna gain: ANT A: 0.55 dBi / ANT B: -0.37 dBi

Directional gain: 3.11 dBi

According to KDB 662911, Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi. If transmit signals are correlated, then Directional gain
 $= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Power supply: Adaptor :
(I/P: 100-240V~ / 47-63Hz / 1.2A MAX; O/P: 19V / 4.74A)
Battery : 10.8V / 5800 mA / 63Wh
DC 12-32V

Emission designator: **5.8G**
802.11a: OFDM: 18M2D1D
802.11n 20MHz: OFDM: 19M3D1D
802.11n 40MHz: OFDM: 37M3D1D
2.4G
802.11b: DSSS: 14M7G1D
802.11g: OFDM: 17M8D1D
802.11n 20MHz: OFDM: 18M7D1D
802.11n 40MHz: OFDM: 37M0D1D
Bluetooth (Normal): 961KF1D
Bluetooth (EDR): 1M30G1D
Bluetooth (4.0): 1M14G1D



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Host device: none

Classification :

Fixed Device	<input type="checkbox"/>
Mobile Device (Human Body distance > 20cm)	<input type="checkbox"/>
Portable Device (Human Body distance < 20cm)	<input checked="" type="checkbox"/>
Modular Radio Device	<input type="checkbox"/>

Transmitter

Unom

ANT A

Mode A (802.11a)

Power (ch 149 or A):	Conducted: 18.52 dBm
Power (ch 157 or B):	Conducted: 18.65 dBm
Power (ch 165 or C):	Conducted: 19.02 dBm

Mode B (802.11n 20MHz)

Power (ch 149 or A):	Conducted: 17.95 dBm
Power (ch 157 or B):	Conducted: 18.15 dBm
Power (ch 165 or C):	Conducted: 18.71 dBm

Mode C (802.11n 40MHz)

Power (ch 151 or A):	Conducted: 17.73 dBm
Power (ch 159 or B):	Conducted: 17.58 dBm

Mode D (802.11b)

Power (ch 1 or A):	Conducted: 19.75 dBm
Power (ch 6 or B):	Conducted: 19.11 dBm
Power (ch 11 or C):	Conducted: 18.54 dBm

Mode E (802.11g)

Power (ch 1 or A):	Conducted: 21.49 dBm
Power (ch 6 or B):	Conducted: 21.52 dBm
Power (ch 11 or C):	Conducted: 21.53 dBm

Mode F (802.11n 20 MHz)

Power (ch 1 or A):	Conducted: 21.04 dBm
Power (ch 6 or B):	Conducted: 21.14 dBm
Power (ch 11 or C):	Conducted: 20.98 dBm

Mode G (802.11n 40 MHz)

Power (ch 1 or A):	Conducted: 20.40 dBm
Power (ch 4 or B):	Conducted: 20.42 dBm
Power (ch 7 or C):	Conducted: 20.28 dBm



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ANT B

Mode A (802.11a)

Power (ch 149 or A): Conducted: 18.53 dBm
Power (ch 157 or B): Conducted: 18.61 dBm
Power (ch 165 or C): Conducted: 19.05 dBm

Mode B (802.11n 20MHz)

Power (ch 149 or A): Conducted: 18.20 dBm
Power (ch 157 or B): Conducted: 18.07 dBm
Power (ch 165 or C): Conducted: 18.69 dBm

Mode C (802.11n 40MHz)

Power (ch 151 or A): Conducted: 17.89 dBm
Power (ch 159 or B): Conducted: 17.45 dBm

Mode D (802.11b)

Power (ch 1 or A): Conducted: 21.25 dBm
Power (ch 6 or B): Conducted: 20.65 dBm
Power (ch 11 or C): Conducted: 20.39 dBm

Mode E (802.11g)

Power (ch 1 or A): Conducted: 22.06 dBm
Power (ch 6 or B): Conducted: 21.73 dBm
Power (ch 11 or C): Conducted: 21.69 dBm

Mode F (802.11n 20 MHz)

Power (ch 1 or A): Conducted: 20.99 dBm
Power (ch 6 or B): Conducted: 21.33 dBm
Power (ch 11 or C): Conducted: 21.35 dBm

Mode G (802.11n 40 MHz)

Power (ch 1 or A): Conducted: 20.77 dBm
Power (ch 4 or B): Conducted: 21.29 dBm
Power (ch 7 or C): Conducted: 21.30 dBm

Mode H (Bluetooth 2.0 Normal mode)

Power (ch 0 or A): Conducted: 5.21 dBm
Power (ch 39 or B): Conducted: 5.56 dBm
Power (ch 78 or C): Conducted: 5.75 dBm

Mode I (Bluetooth 2.0 EDR mode)

Power (ch 0 or A): Conducted: 3.78 dBm
Power (ch 39 or B): Conducted: 4.20 dBm
Power (ch 78 or C): Conducted: 4.53 dBm

Mode J (Bluetooth 4.0)

Power (ch 0 or A): Conducted: 2.74 dBm
Power (ch 19 or B): Conducted: 3.04 dBm
Power (ch 39 or C): Conducted: 3.24 dBm



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Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	128.44	129.43	148.26	21.09	21.12	21.71
802.11n 40MHz	120.81	--	112.87	20.82	--	20.53
802.11n 20MHz(2.4)	252.66	265.85	261.77	24.03	24.25	24.18
802.11n 40MHz	229.05	244.74	241.56	23.6	23.89	23.83

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2011-10)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: Adaptor :
(I/P: 100-240V~ / 47-63Hz / 1.2A MAX; O/P: 19V / 4.74A)
Battery : 10.8V / 5800 mAH / 63Wh
DC 12-32V

Extreme conditions parameters: ./.



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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2012/9/5	2013/9/4
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2012/12/21	2013/12/20
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2013/3/4	2014/3/3
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use	
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2012/7/3	2013/7/2
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2012/9/5	2013/9/4
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2012/9/5	2013/9/4
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2012/10/12	2013/10/11
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2012/8/01	2013/7/31
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2013/3/4	2014/3/3
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2013/3/21	2014/3/20
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2013/5/28	2014/5/27
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2013/3/4	2014/3/3
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2012/11/28	2013/11/27
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2012/10/5	2013/10/4
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2012/10/12	2013/10/11
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2012/12/4	2013/12/3
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2012/12/13	2013/12/12
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2013/1/11	2014/1/10
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	



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ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2012/7/3	2013/7/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2013/3/4	2014/3/3
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2012/10/5	2013/10/4
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2012/9/18	2013/9/17
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 054	BNC To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2009 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: 930600.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log(\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent isotropically radiated Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.247	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrier Frequency Separation	15.247(a) (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Hopping Frequencies	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20 dB Bandwidth	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 6 dB Bandwidth	15.247(a)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band-edge Compliance of RF Emission	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note:

1. This EUT incorporates a MIMO function with IEEE 802.11a, 802.11b, 802.11g, and 802.11n. Physically, this EUT includes two transmitters and two receivers with two incoherent streams. This device uses multiplexing and also employ cyclic delay diversity to improve range and throughput, and this device simultaneously operates on two adjacent channels.
2. This EUT is 2*2 spatial MIMO (2Tx&2Rx) without beam forming function. That operates dual chain configuration. The Pre-test was performed to determine the worst case mode from all possible combinations between all available modulations, data rates, bandwidths, and spatial stream modes.
3. The detail of chosen mode for full testing are as below:

Mode	Available channel	Chosen Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	149 to 165	149, 157, 165	OFDM	BPSK, QPSK, 16QAM, 64QAM	54
802.11b	1 to 11	1,6,11	DSSS	DBPSK, DQPSK, CCK	1
802.11g	1 to 11	1,6,11	OFDM	BPSK, QPSK, 16QAM, 64QAM	6
802.11n (20MHz)	1 to 11	1,6,11	OFDM	BPSK, QPSK, 16QAM, 64QAM	6.5
802.11n (40MHz)	1 to 7	1,4,7	OFDM	BPSK, QPSK, 16QAM, 64QAM	13.5



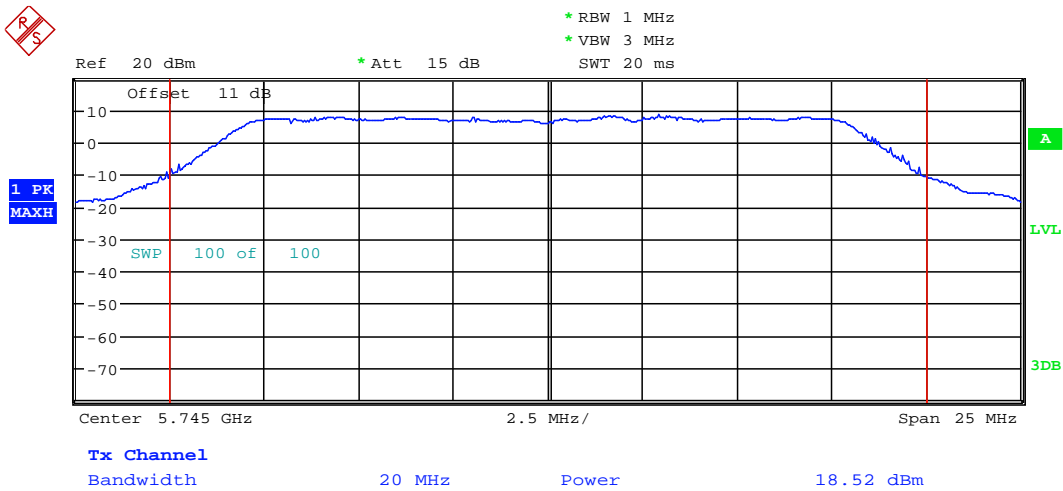
Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.
The power was measured with modulation (declared by the applicant).

ANT A
Mode A

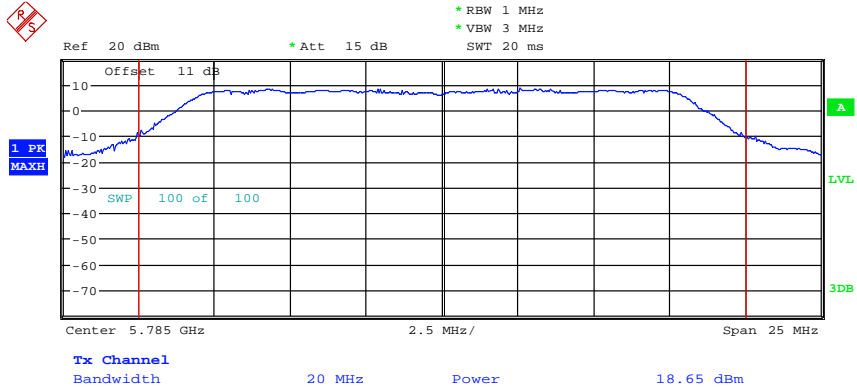


MAX OUTPUT POWER 802.11A CH149
Date: 22.MAY.2013 09:56:27

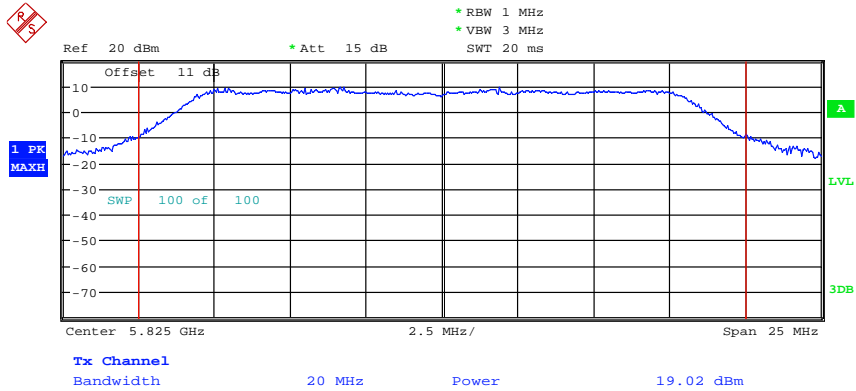


Worldwide Testing Services(Taiwan) Co., Ltd.

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MAX OUTPUT POWER 802.11A CH157
Date: 22.MAY.2013 09:57:08

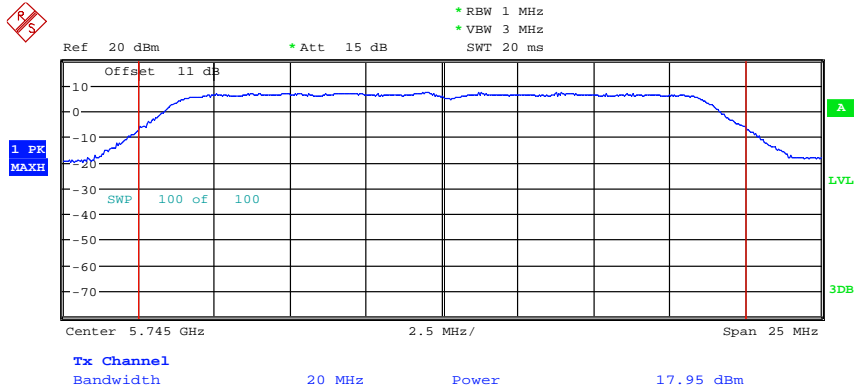


MAX OUTPUT POWER 802.11A CH165
Date: 22.MAY.2013 09:57:44

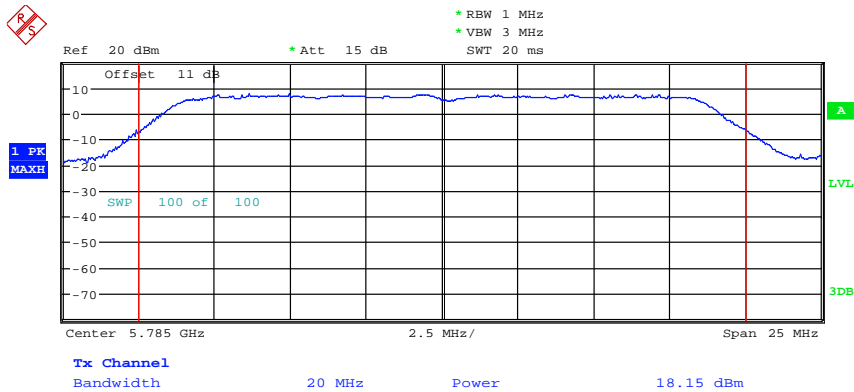


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



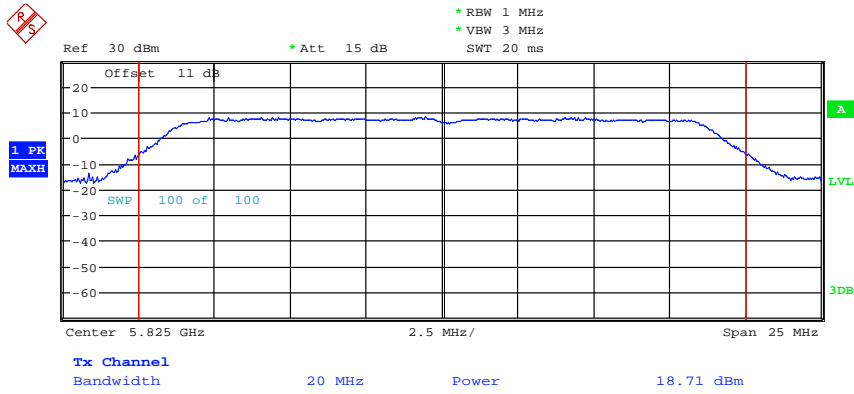
MAX OUTPUT POWER 802.11N 20MHZ CH149
Date: 22.MAY.2013 10:01:13



MAX OUTPUT POWER 802.11N 20MHZ CH157
Date: 22.MAY.2013 10:01:55

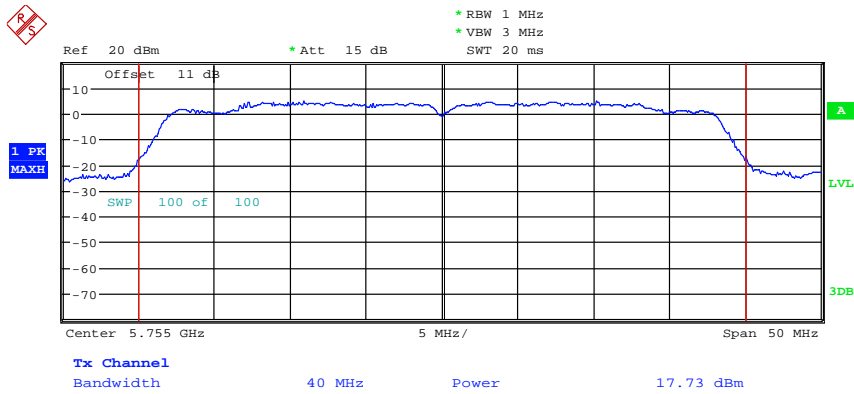


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 20MHZ CH165
Date: 22.MAY.2013 10:02:51

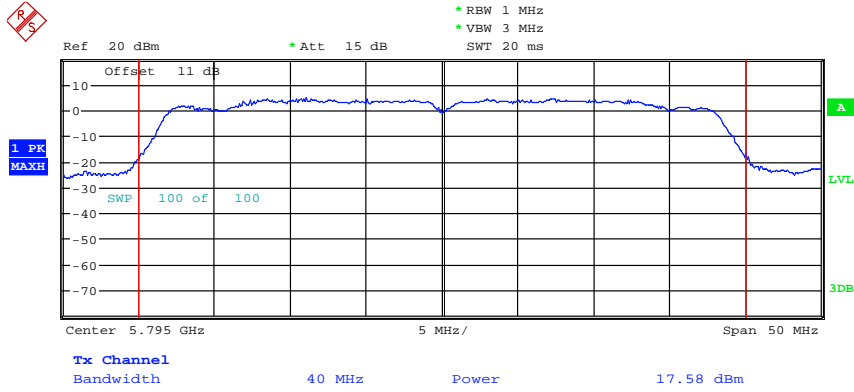
Mode C



MAX OUTPUT POWER 802.11N 40MHZ CH151
Date: 22.MAY.2013 10:04:25

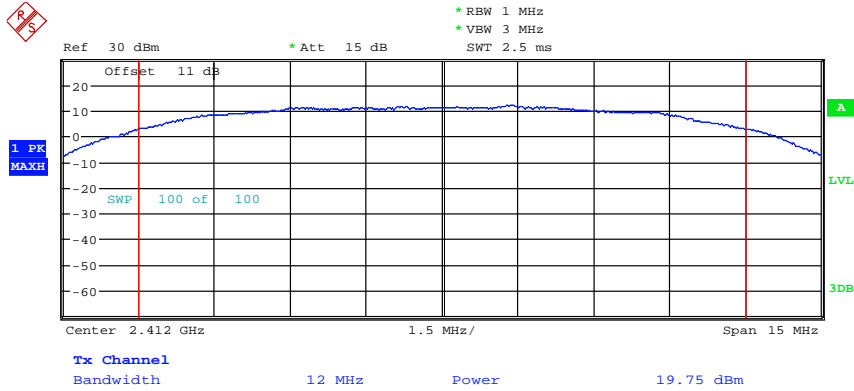


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 40MHZ CH159
Date: 22.MAY.2013 10:05:05

Mode D

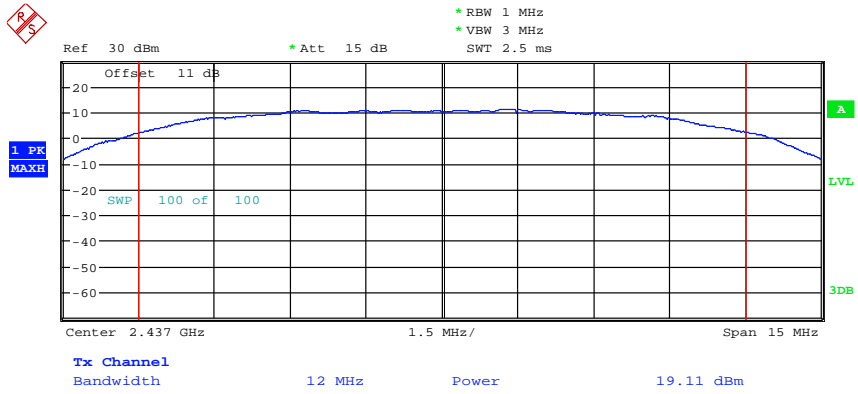


MAX OUTPUT POWER 802.11B CH01
Date: 22.MAY.2013 07:09:42

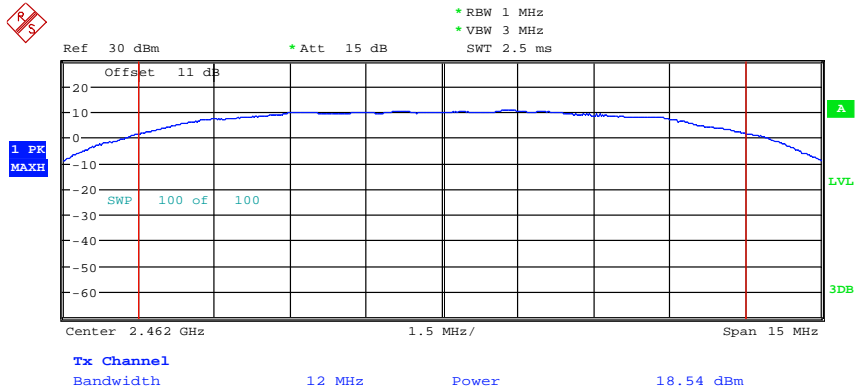


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11B CH06
Date: 22.MAY.2013 07:10:49

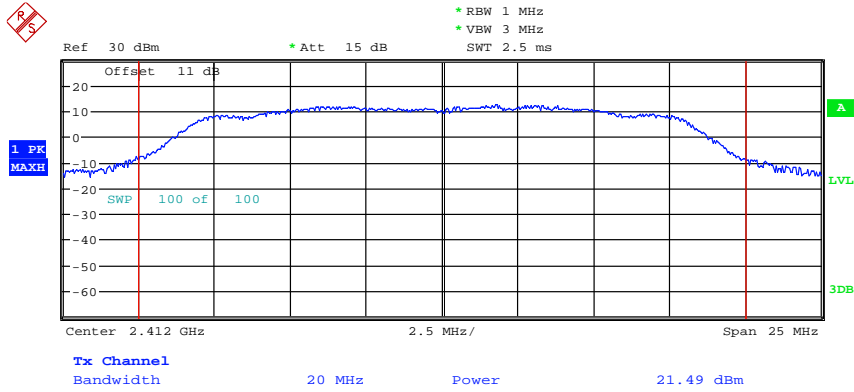


MAX OUTPUT POWER 802.11B CH11
Date: 22.MAY.2013 07:12:59

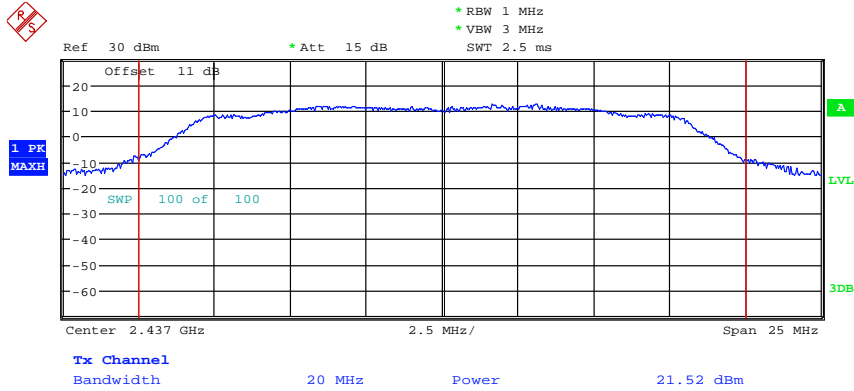


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode E



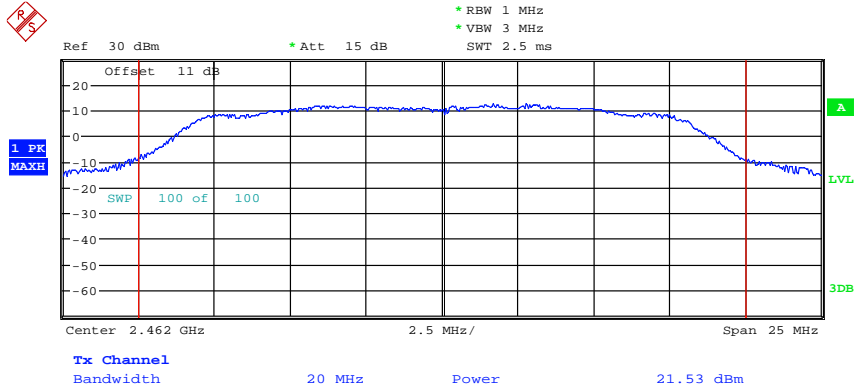
MAX OUTPUT POWER 802.11G CH01
Date: 22.MAY.2013 07:14:14



MAX OUTPUT POWER 802.11G CH06
Date: 22.MAY.2013 07:14:55

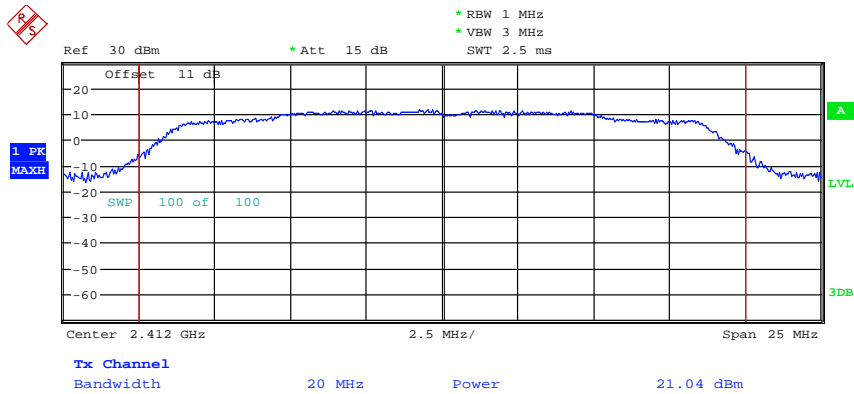


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11G CH11
Date: 22.MAY.2013 07:15:57

Mode F

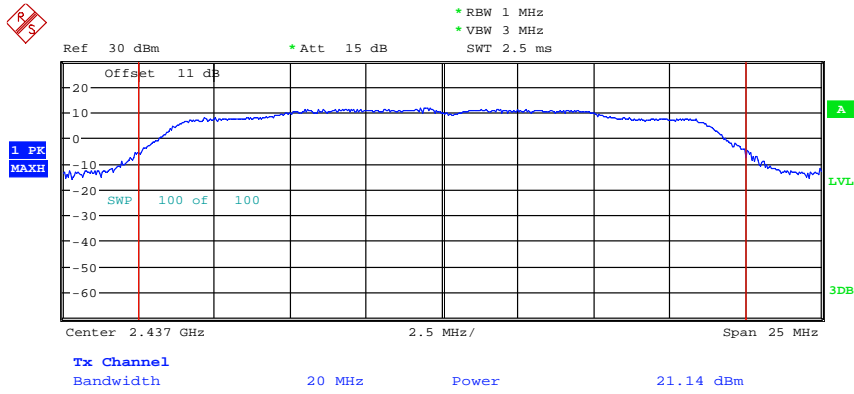


MAX OUTPUT POWER 802.11N 20MHZ CH01
Date: 22.MAY.2013 07:22:58

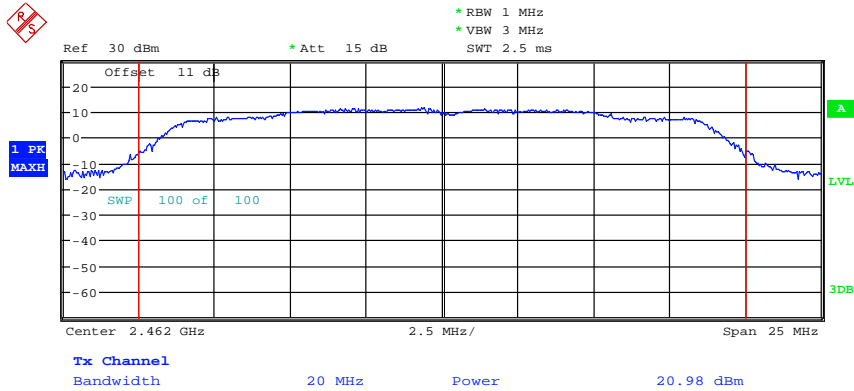


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 20MHZ CH06
Date: 22.MAY.2013 07:23:37



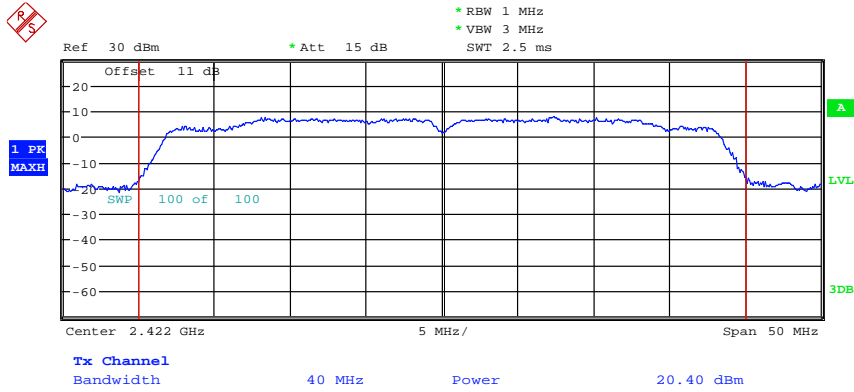
MAX OUTPUT POWER 802.11N 20MHZ CH11
Date: 22.MAY.2013 07:36:01



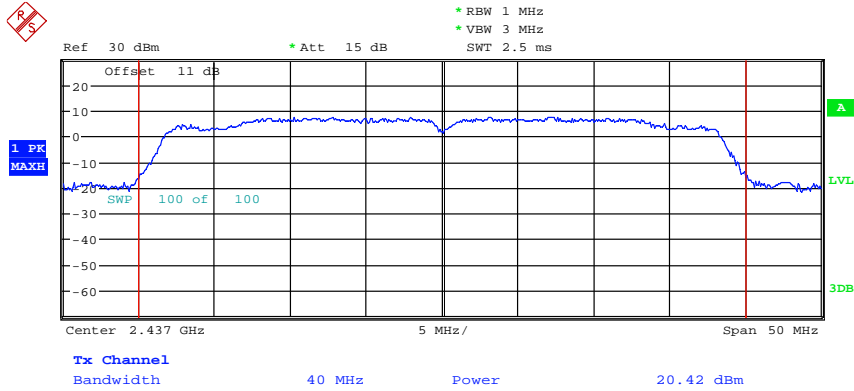
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



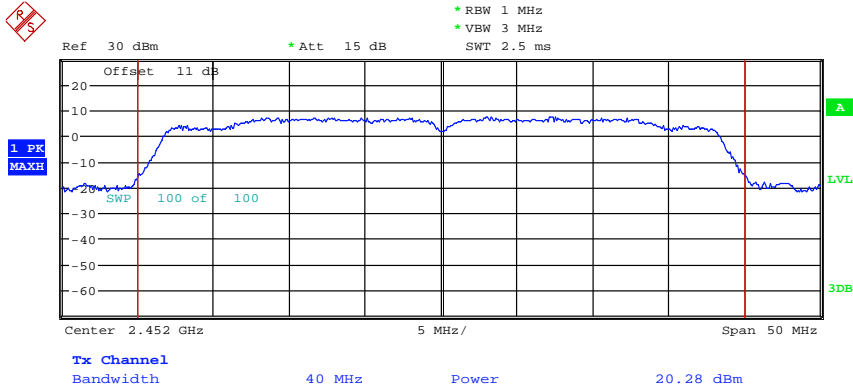
MAX OUTPUT POWER 802.11N 40MHZ CH01
Date: 22.MAY.2013 07:36:54



MAX OUTPUT POWER 802.11N 40MHZ CH04
Date: 22.MAY.2013 07:39:05

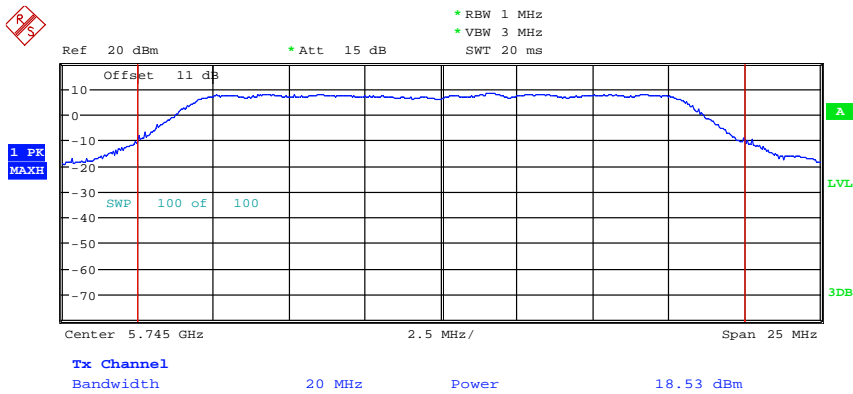


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 40MHZ CH07
Date: 22.MAY.2013 07:38:12

ANT B Mode A

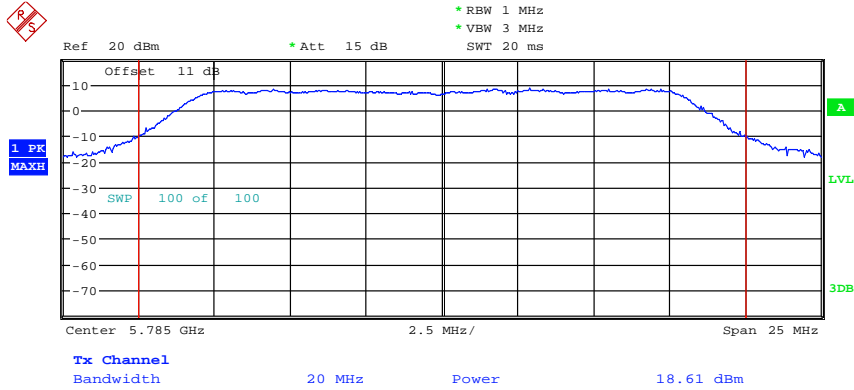


MAX OUTPUT POWER 802.11A CH149
Date: 22.MAY.2013 08:20:04

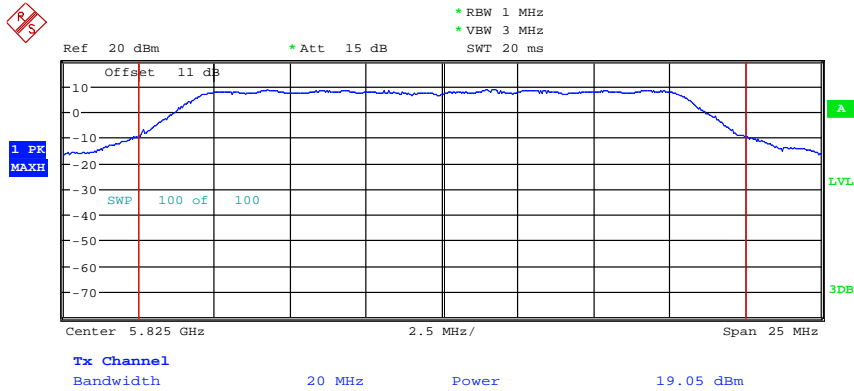


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11A CH157
Date: 22.MAY.2013 08:20:47

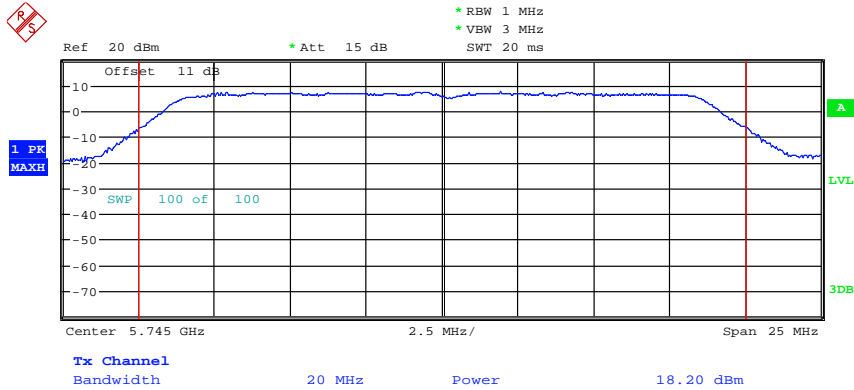


MAX OUTPUT POWER 802.11A CH165
Date: 22.MAY.2013 08:21:23

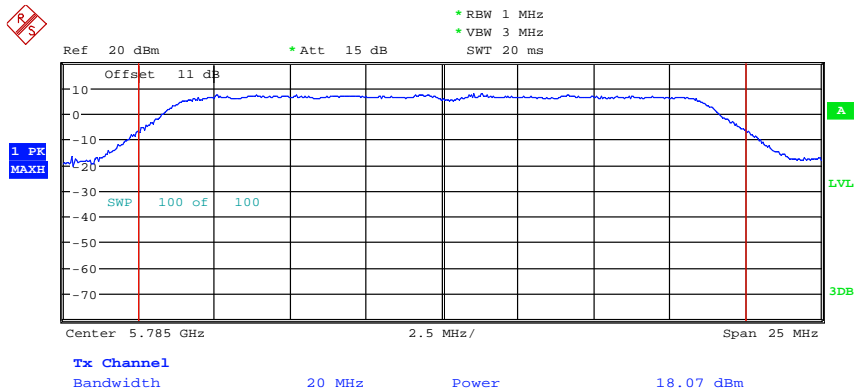


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



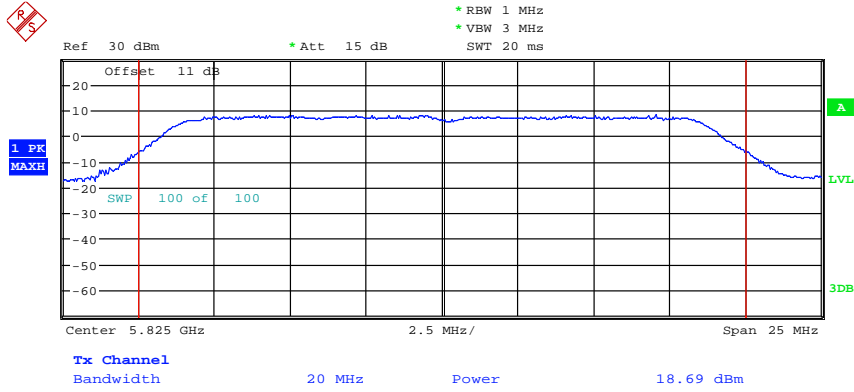
MAX OUTPUT POWER 802.11N 20MHZ CH149
Date: 22.MAY.2013 08:22:10



MAX OUTPUT POWER 802.11N 20MHZ CH157
Date: 22.MAY.2013 08:22:49

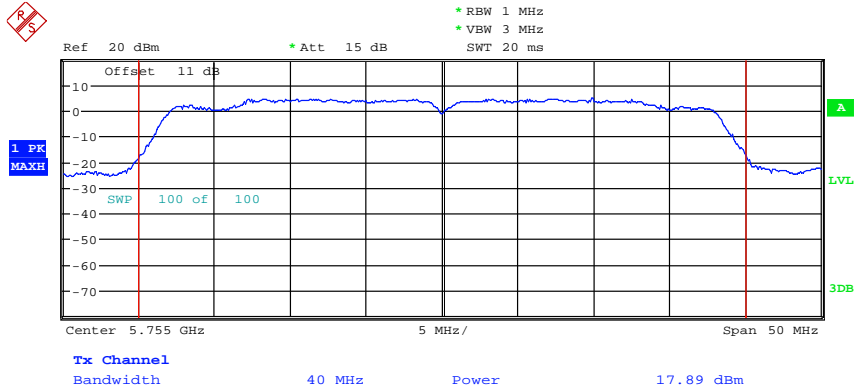


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 20MHZ CH165
Date: 22.MAY.2013 08:23:24

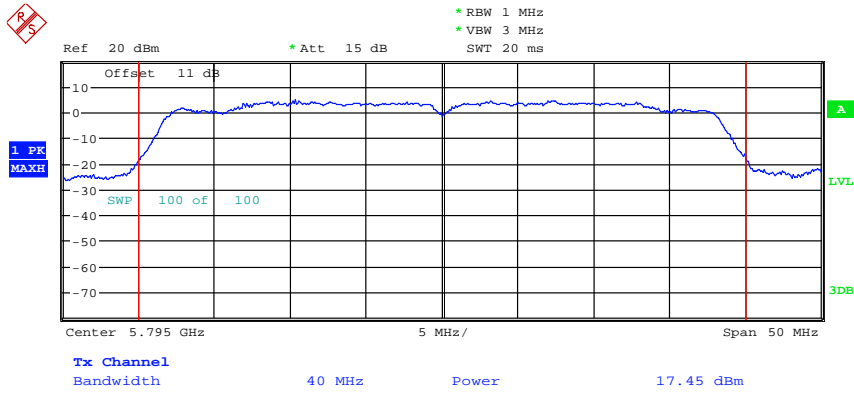
Mode C



MAX OUTPUT POWER 802.11N 40MHZ CH151
Date: 22.MAY.2013 08:24:28

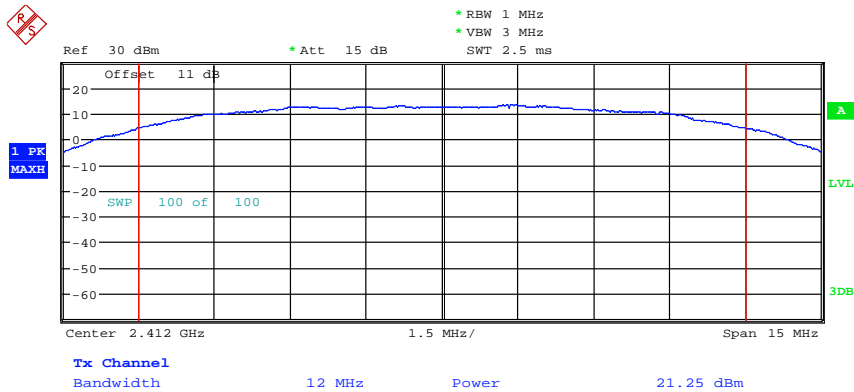


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 40MHZ CH159
Date: 22.MAY.2013 08:25:12

Mode D

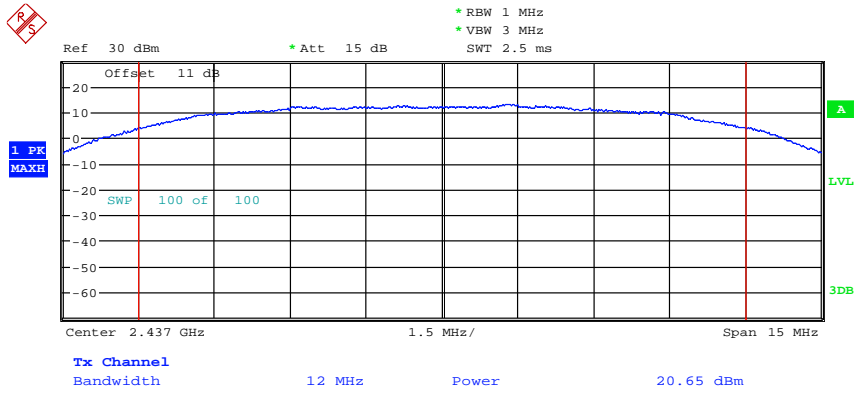


MAX OUTPUT POWER 802.11B CH01
Date: 22.MAY.2013 07:48:14

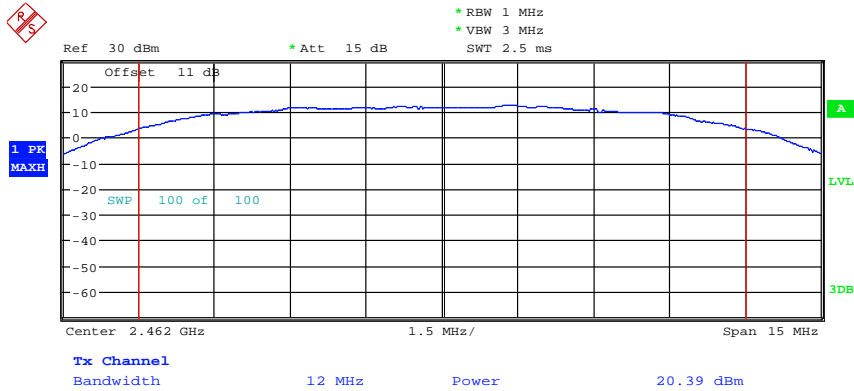


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11B CH06
Date: 22.MAY.2013 07:53:49



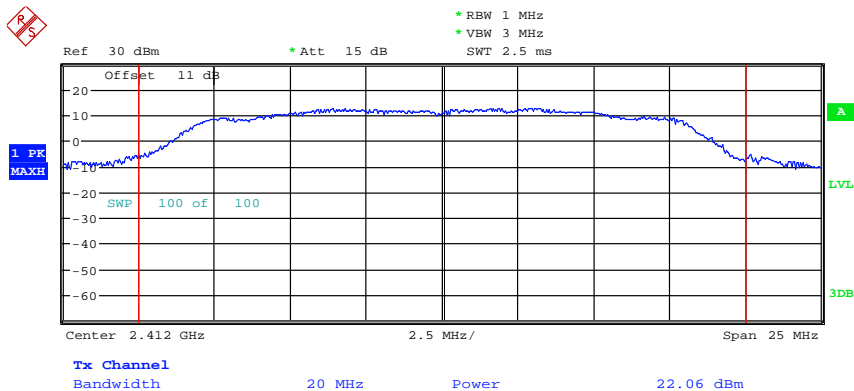
MAX OUTPUT POWER 802.11B CH11
Date: 22.MAY.2013 07:56:00



Registration number: W6M21304-13125-C-1

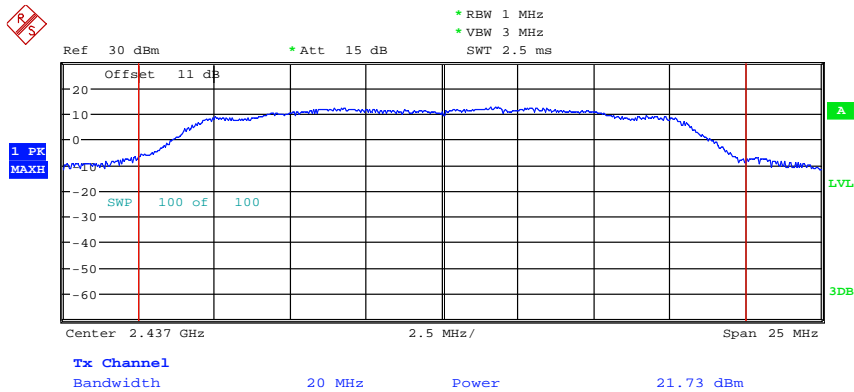
FCC ID: IR5DR10

Mode E



MAX OUTPUT POWER 802.11G CH01

Date: 22.MAY.2013 08:00:36

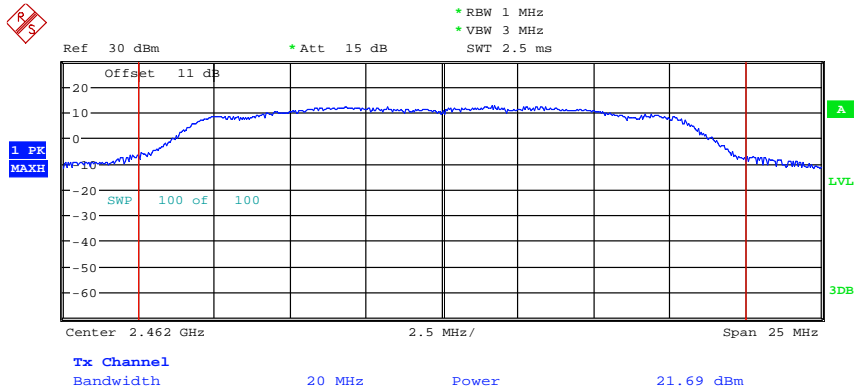


MAX OUTPUT POWER 802.11G CH06

Date: 22.MAY.2013 08:04:55

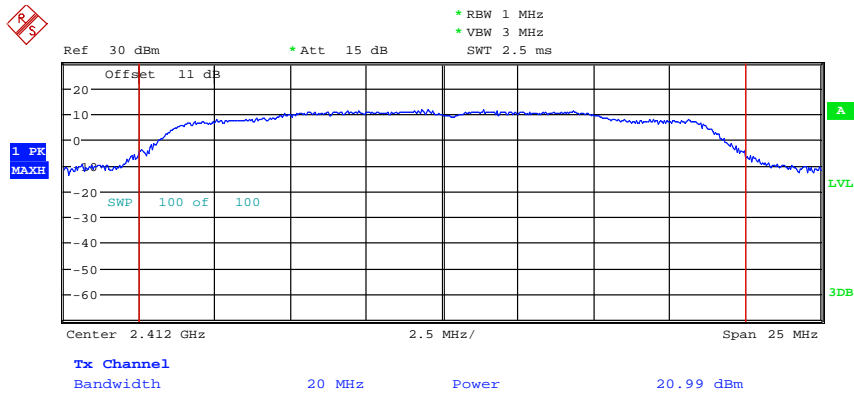


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11G CH11
Date: 22.MAY.2013 08:05:45

Mode F

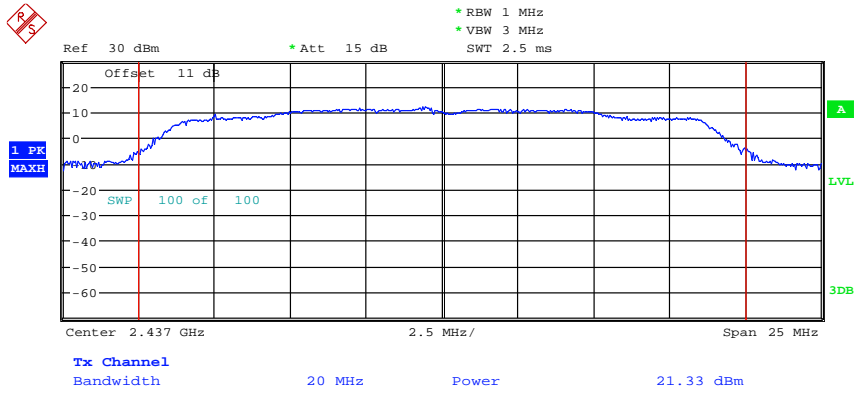


MAX OUTPUT POWER 802.11N 20MHZ CH01
Date: 22.MAY.2013 08:06:37

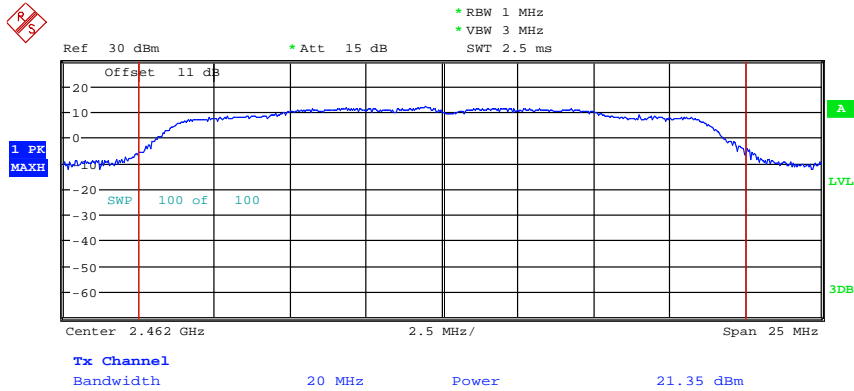


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 20MHZ CH06
Date: 22.MAY.2013 08:07:26

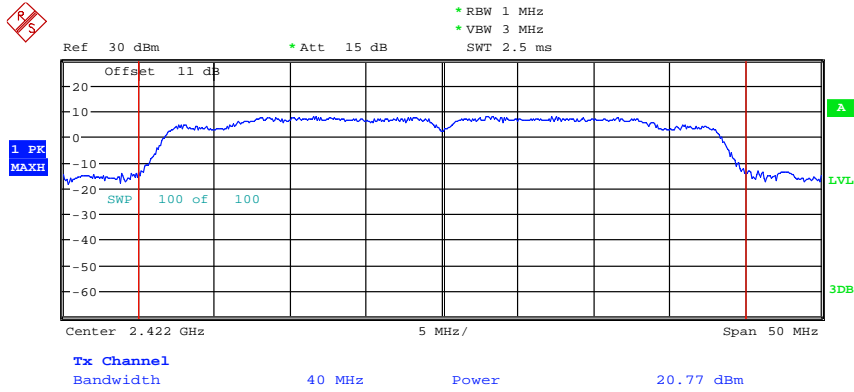


MAX OUTPUT POWER 802.11N 20MHZ CH11
Date: 22.MAY.2013 08:08:05

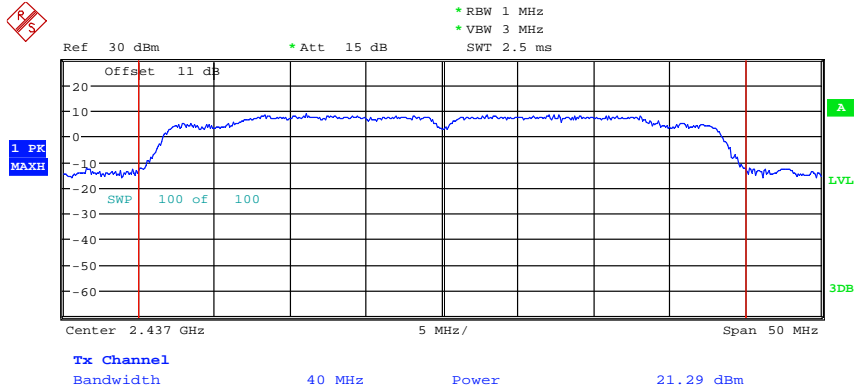


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



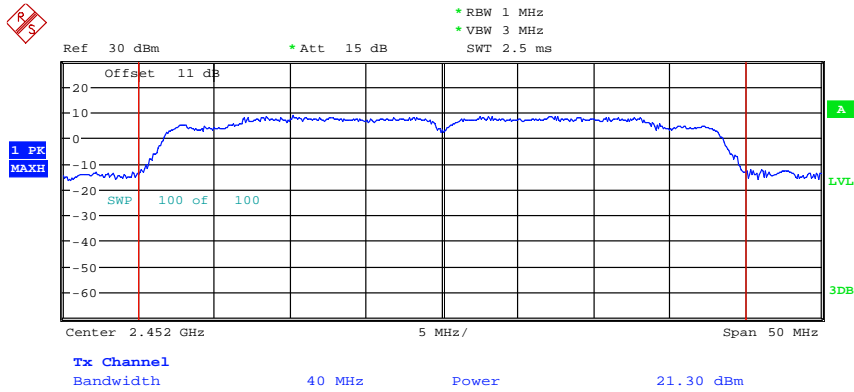
MAX OUTPUT POWER 802.11N 40MHZ CH01
Date: 22.MAY.2013 08:13:36



MAX OUTPUT POWER 802.11N 40MHZ CH04
Date: 22.MAY.2013 08:14:20

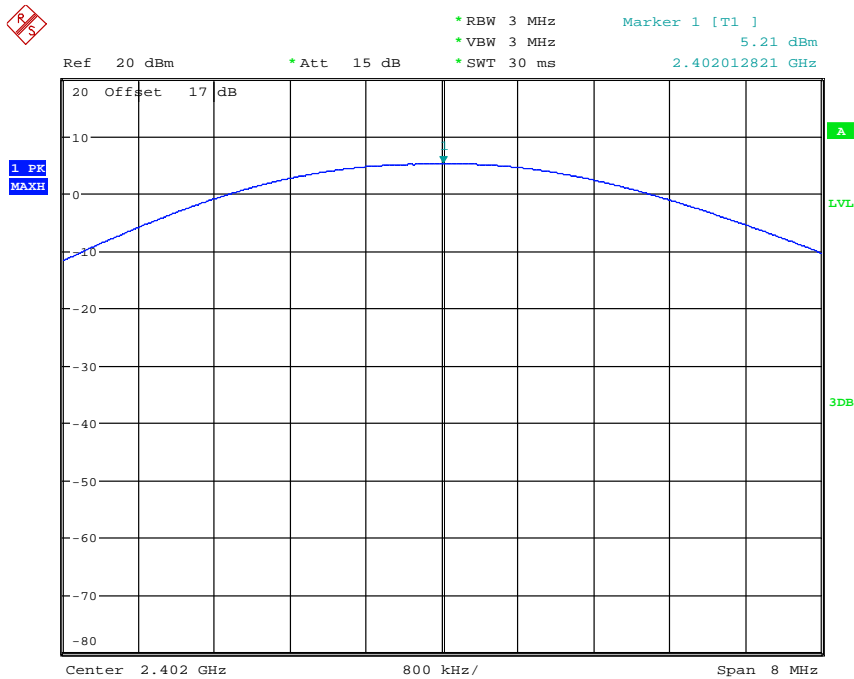


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER 802.11N 40MHZ CH07
Date: 22.MAY.2013 08:15:25

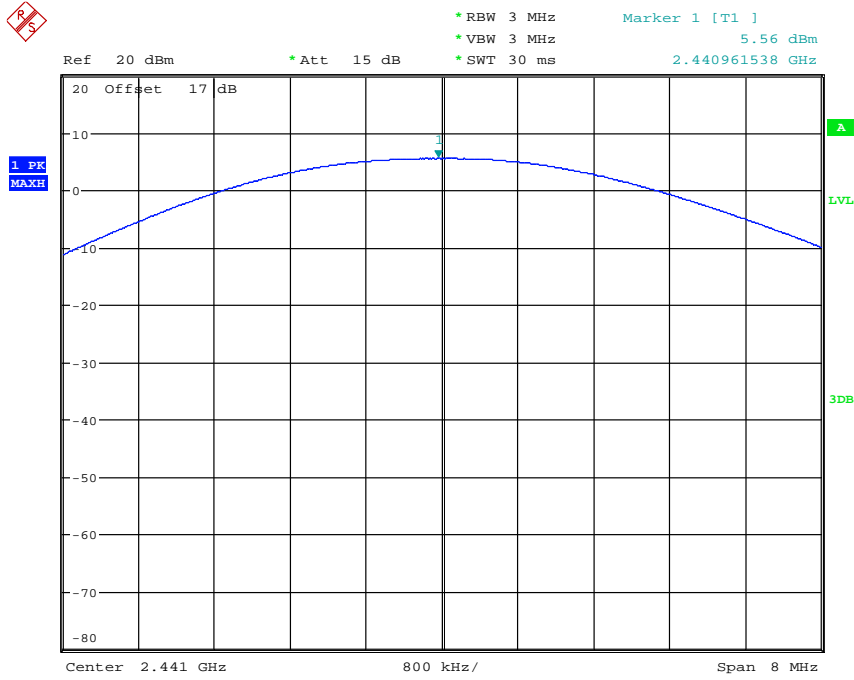
Mode H



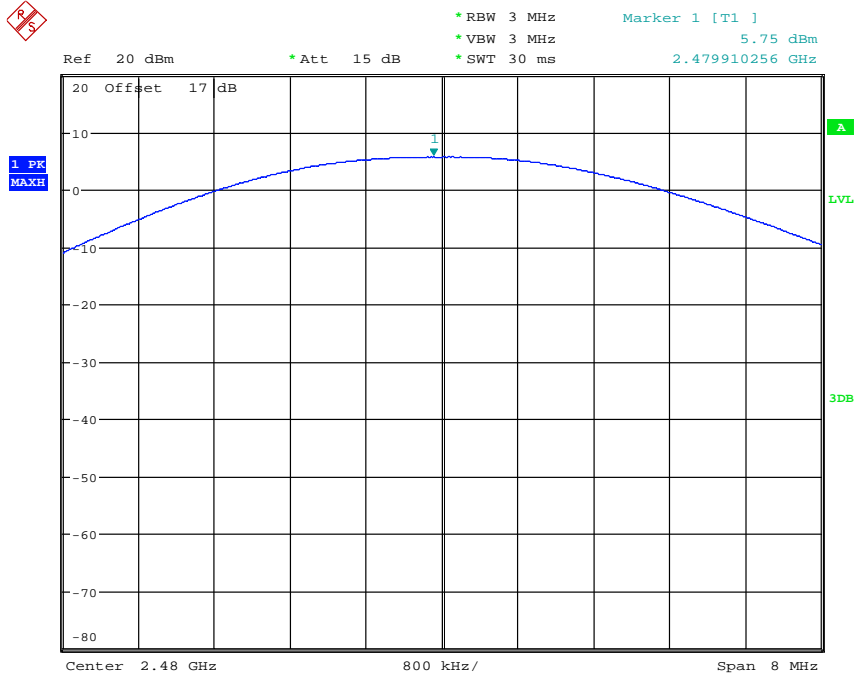
MAX OUTPUT POWER CH0
Date: 22.MAY.2013 10:25:33



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER CH39
Date: 22.MAY.2013 10:38:33

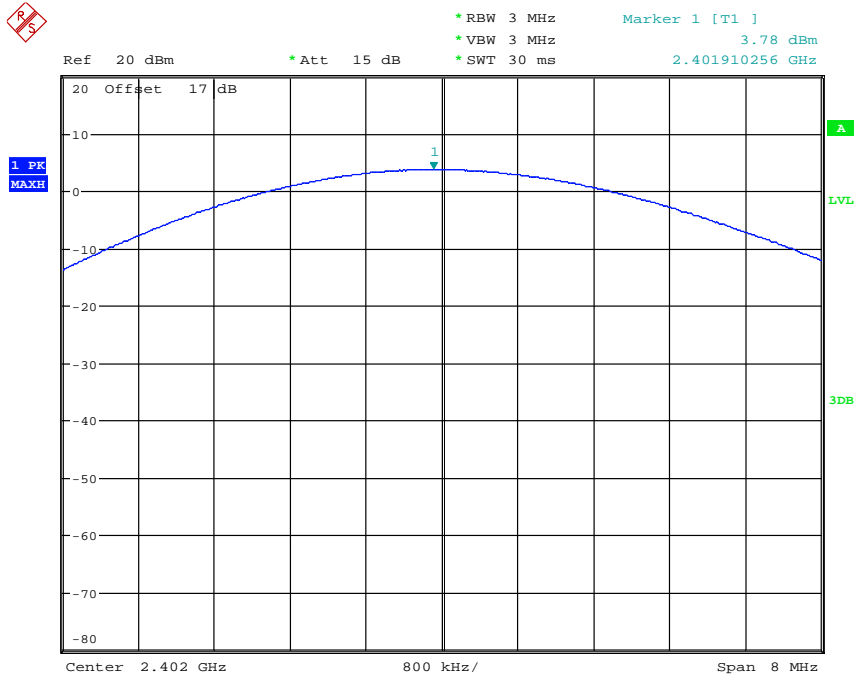


MAX OUTPUT POWER CH78
Date: 22.MAY.2013 10:39:29

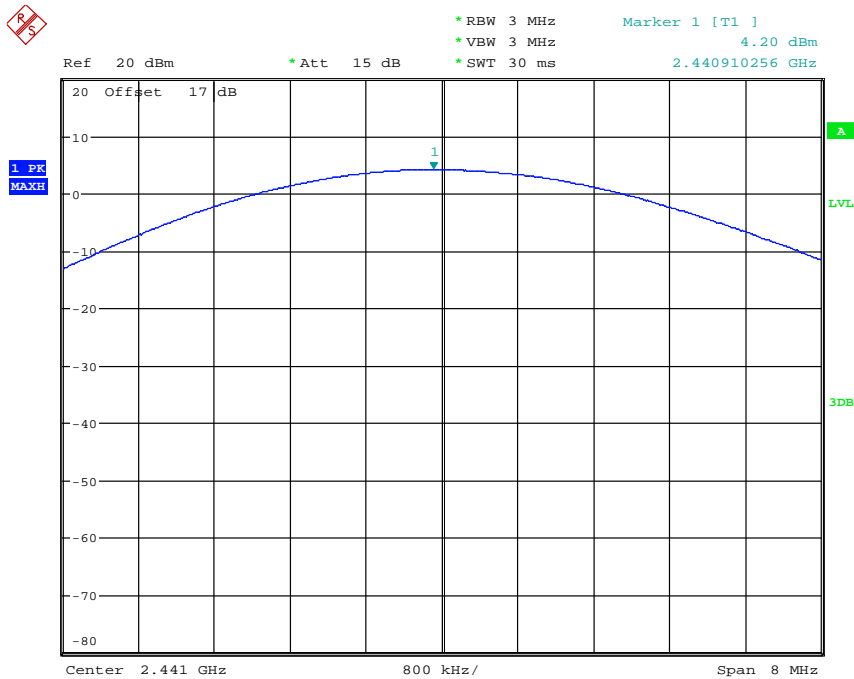


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode I



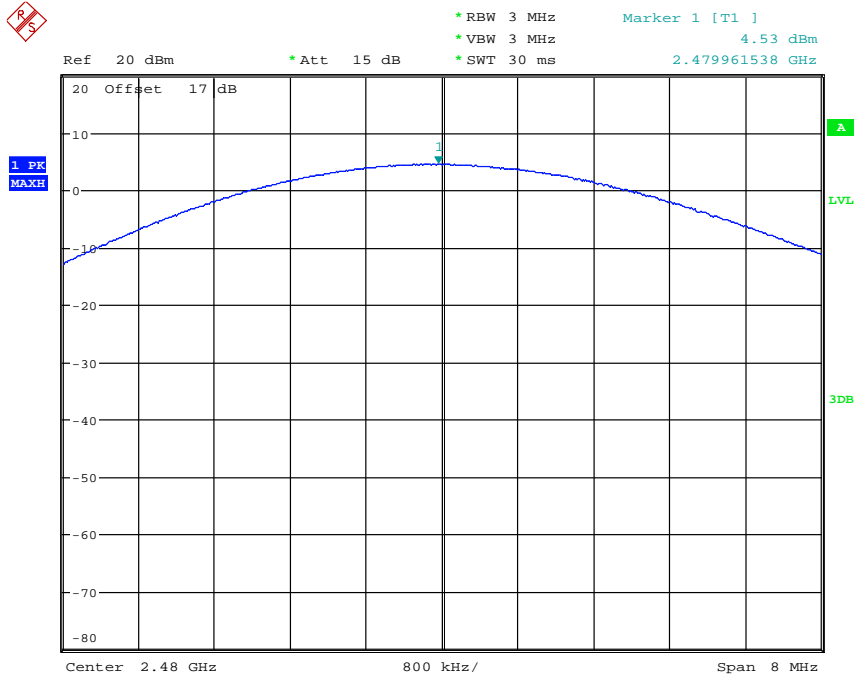
MAX OUTPUT POWER CH0 EDR MODE
Date: 22.MAY.2013 10:48:37



MAX OUTPUT POWER CH39 EDR MODE
Date: 22.MAY.2013 10:51:17

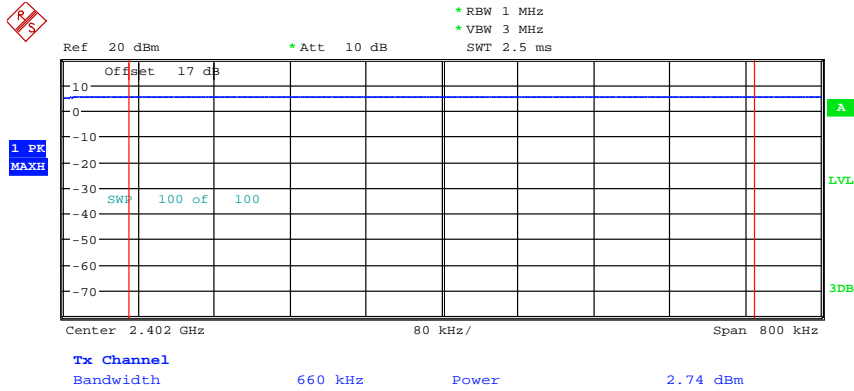


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER CH78 EDR MODE
Date: 22.MAY.2013 10:51:37

Mode J

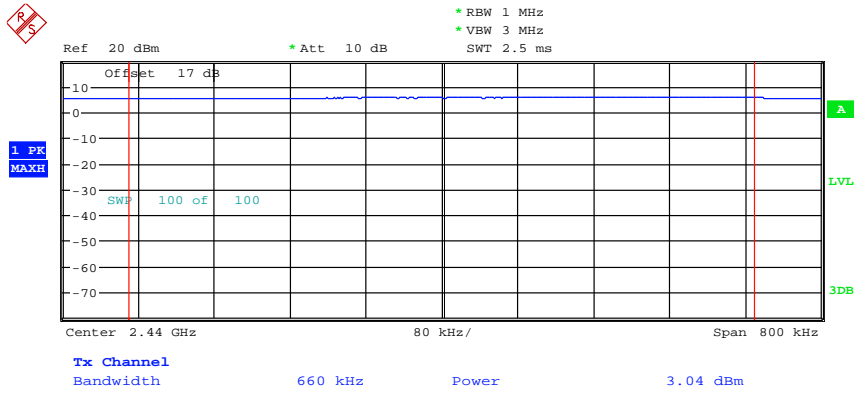


MAX OUTPUT POWER BT4.0 CH00
Date: 22.MAY.2013 12:03:28

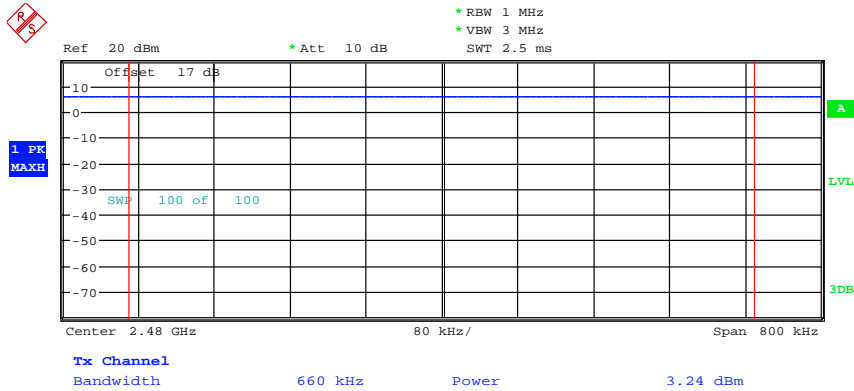


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



MAX OUTPUT POWER BT4.0 CH19
Date: 22.MAY.2013 12:08:21



MAX OUTPUT POWER BT4.0 CH39
Date: 22.MAY.2013 12:10:10



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

ANT A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	62.37	65.31	74.30	17.95	18.15	18.71
802.11n 40MHz	59.29	--	57.28	17.73	--	17.58
802.11n 20MHz(2.4)	127.06	130.02	125.31	21.04	21.14	20.98
802.11n 40MHz	109.65	110.15	106.66	20.40	20.42	20.28
ANT B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	66.07	64.12	73.96	18.20	18.07	18.69
802.11n 40MHz	61.52	--	55.59	17.89	--	17.45
802.11n 20MHz(2.4)	125.60	135.83	136.46	20.99	21.33	21.35
802.11n 40MHz	119.4	134.59	134.90	20.77	21.29	21.30
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	128.44	129.43	148.26	21.09	21.12	21.71
802.11n 40MHz	120.81	--	112.87	20.82	--	20.53
802.11n 20MHz(2.4)	252.66	265.85	261.77	24.03	24.25	24.18
802.11n 40MHz	229.05	244.74	241.56	23.6	23.89	23.83

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 073, ETSTW-RE 074,
 ETSTW-RE 064



Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

3.2 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4 \pi R^2}$$

- S – Power Density
- P – Output power ERP
- R – Distance
- D – Cable Loss
- AG – Antenna Gain

WLAN 802.11a/n 20MHz/n 40MHz

Item	Unit	Value	Remarks
P	mW	--	Peak value
D	dB		
AG	dBi	--	
G		--	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	--	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0

Explanation: This item is not applicable. Please refer to SAR test report of DR10.



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3.3 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26500 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency \leq 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 10 Hz (Average measurements)

Limits:

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = $20 \log (\text{dwell time}/ 100\text{ms})$

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: See attached diagrams in Appendix.



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3.4 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, 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))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements).

Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

Max. reading – 20 dB

Guidance on Measurement of Digit Transmission Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms})$

Test equipment used: ETSTW-RE 003, ETSTW-RE 030, ETSTW-RE 111,
ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064

Note: No duty cycle correction was added to the reading of EUT.



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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

ANT A

Model: DR10 Date: 2013/4/21-2013/4/25
Mode: WLAN 802.11a 5745MHz Temperature: 24 °C Engineer: Leon
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
232.3646	20.04	peak	13.83	33.87	46.00	-12.13	130	100
261.0421	13.18	peak	14.45	27.63	46.00	-18.37	125	100
323.8476	15.03	peak	16.52	31.55	46.00	-14.45	135	100
386.9740	13.05	peak	18.21	31.26	46.00	-14.74	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.0000	34.67	---	12.90	47.57	---	74.00	54.00	-26.43	240	100
17235.0000	28.25	---	21.95	50.20	---	74.00	54.00	-23.80	90	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.9360	13.47	peak	14.14	27.61	43.50	-15.89	160	100
186.9138	21.81	peak	12.79	34.60	43.50	-8.90	105	100
323.8477	11.26	peak	16.52	27.78	46.00	-18.22	105	100
584.7695	9.49	peak	22.53	32.02	46.00	-13.98	120	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.0000	33.90	---	12.90	46.80	---	74.00	54.00	-27.20	230	100
17235.0000	28.48	---	21.95	50.43	---	74.00	54.00	-23.57	140	100

Mode: WLAN 802.11a 5785MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
237.7756	19.94	peak	13.89	33.83	46.00	-12.17	140	100
259.9600	12.84	peak	14.39	27.23	46.00	-18.77	175	100
323.8476	15.27	peak	16.52	31.79	46.00	-14.21	220	100
386.9740	12.43	peak	18.21	30.64	46.00	-15.36	175	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.90	---	13.43	48.33	---	74.00	54.00	-25.67	160	100
17355.0000	28.36	---	21.76	50.12	---	74.00	54.00	-23.88	260	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
178.7975	21.12	peak	13.75	34.87	43.50	-8.63	165	100
244.2685	16.35	peak	14.02	30.37	46.00	-15.63	50	100
301.4028	13.26	peak	15.94	29.20	46.00	-16.80	110	100
454.3086	10.84	peak	20.09	30.93	46.00	-15.07	165	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	35.07	---	13.43	48.50	---	74.00	54.00	-25.50	210	100
17355.0000	27.82	---	21.76	49.58	---	74.00	54.00	-24.42	240	100

Mode: WLAN 802.11a 5825MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
235.6112	21.10	peak	13.87	34.97	46.00	-11.03	210	100
259.9600	12.27	peak	14.39	26.66	46.00	-19.34	250	100
323.8476	15.12	peak	16.52	31.64	46.00	-14.36	120	100
347.6954	15.70	peak	17.03	32.73	74.00	-41.27	175	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	35.03	---	13.34	48.37	---	74.00	54.00	-25.63	170	100
17475.0000	28.23	---	21.63	49.86	---	74.00	54.00	-24.14	200	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
175.5510	16.87	peak	14.17	31.04	43.50	-12.46	110	100
232.9057	17.29	peak	13.84	31.13	46.00	-14.87	135	100
389.7796	7.97	peak	18.29	26.26	74.00	-47.74	165	100
584.7695	9.72	peak	22.53	32.25	74.00	-41.75	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	34.35	---	13.34	47.69	---	74.00	54.00	-26.31	105	100
17475.0000	27.76	---	21.63	49.39	---	74.00	54.00	-24.61	255	100

Mode: TX 802.11b 2412MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
220.5010	16.09	peak	13.60	29.69	46.00	-16.31	240	100
325.4708	16.01	peak	16.56	32.57	46.00	-13.43	265	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	40.88	---	0.50	41.38	---	74.00	54.00	-32.62	175	100
7236.0000	40.14	---	4.06	44.20	---	74.00	54.00	-29.80	130	100
9648.0000	35.82	---	9.16	44.98	---	74.00	54.00	-29.02	220	100
12060.0000	34.25	---	13.89	48.14	---	74.00	54.00	-25.86	210	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
177.7355	18.45	peak	13.89	32.34	43.50	-11.16	210	100
222.4450	17.80	peak	13.64	31.44	46.00	-14.56	165	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	40.92	---	0.50	41.42	---	74.00	54.00	-32.58	225	100
7236.0000	39.82	---	4.06	43.88	---	74.00	54.00	-30.12	260	100
9648.0000	35.03	---	9.16	44.19	---	74.00	54.00	-29.81	105	100
12060.0000	33.03	---	13.89	46.92	---	74.00	54.00	-27.08	240	100

Mode: TX 802.11b 2437MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
243.8276	17.24	peak	14.01	31.25	46.00	-14.75	175	100
339.0781	14.06	peak	16.85	30.91	46.00	-15.09	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.43	---	0.61	42.04	---	74.00	54.00	-31.96	135	100
7311.0000	40.46	---	4.20	44.66	---	74.00	54.00	-29.34	110	100
9748.0000	35.45	---	9.51	44.96	---	74.00	54.00	-29.04	255	100
12185.0000	32.18	---	14.83	47.01	---	74.00	54.00	-26.99	230	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.51	peak	14.02	22.53	40.00	-17.47	95	100
185.5110	19.25	peak	12.96	32.21	43.50	-11.29	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.59	---	0.61	42.20	---	74.00	54.00	-31.80	245	100
7311.0000	40.11	---	4.20	44.31	---	74.00	54.00	-29.69	225	100
9748.0000	35.02	---	9.51	44.53	---	74.00	54.00	-29.47	140	100
12185.0000	32.19	---	14.83	47.02	---	74.00	54.00	-26.98	95	100

Mode: TX 802.11b 2462MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
201.0620	19.89	peak	12.01	31.90	43.50	-11.60	275	100
325.4708	15.15	peak	16.56	31.71	46.00	-14.29	210	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	40.80	---	0.84	41.64	---	74.00	54.00	-32.36	160	100
7386.0000	39.66	---	4.43	44.09	---	74.00	54.00	-29.91	135	100
9848.0000	36.53	---	9.76	46.29	---	74.00	54.00	-27.71	225	100
12310.0000	33.85	---	14.12	47.97	---	74.00	54.00	-26.03	240	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
131.0822	9.98	peak	14.38	24.36	43.50	-19.14	130	100
234.1082	16.67	peak	13.85	30.52	46.00	-15.48	75	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.15	---	0.84	41.99	---	74.00	54.00	-32.01	130	100
7386.0000	39.59	---	4.43	44.02	---	74.00	54.00	-29.98	165	100
9848.0000	35.12	---	9.76	44.88	---	74.00	54.00	-29.12	235	100
12310.0000	34.17	---	14.12	48.29	---	74.00	54.00	-25.71	170	100

Mode: TX 802.11g 2412MH

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
232.1642	19.68	peak	13.83	33.51	46.00	-12.49	155	100
387.6754	12.89	peak	18.23	31.12	46.00	-14.88	190	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.45	---	0.50	41.95	---	74.00	54.00	-32.05	175	100
7236.0000	40.25	---	4.06	44.31	---	74.00	54.00	-29.69	130	100
9648.0000	35.22	---	9.16	44.38	---	74.00	54.00	-29.62	240	100
12060.0000	33.46	---	13.89	47.35	---	74.00	54.00	-26.65	215	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	9.34	peak	14.02	23.36	40.00	-16.64	235	100
121.3627	12.35	peak	13.65	26.00	43.50	-17.50	220	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.13	---	0.50	41.63	---	74.00	54.00	-32.37	235	100
7236.0000	40.86	---	4.06	44.92	---	74.00	54.00	-29.08	210	100
9648.0000	35.62	---	9.16	44.78	---	74.00	54.00	-29.22	75	100
12060.0000	33.81	---	13.89	47.70	---	74.00	54.00	-26.30	120	100

Mode: TX 802.11g 2437MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
187.4550	16.90	peak	12.73	29.63	43.50	-13.87	175	100
325.4708	14.86	peak	16.56	31.42	46.00	-14.58	160	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.54	---	0.61	42.15	---	74.00	54.00	-31.85	105	100
7311.0000	40.15	---	4.20	44.35	---	74.00	54.00	-29.65	145	100
9748.0000	35.33	---	9.51	44.84	---	74.00	54.00	-29.16	225	100
12185.0000	32.80	---	14.83	47.63	---	74.00	54.00	-26.37	180	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	7.91	peak	14.02	21.93	40.00	-18.07	265	100
129.1383	7.00	peak	14.23	21.23	43.50	-22.27	210	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.71	---	0.61	42.32	---	74.00	54.00	-31.68	240	100
7311.0000	40.63	---	4.20	44.83	---	74.00	54.00	-29.17	265	100
9748.0000	35.01	---	9.51	44.52	---	74.00	54.00	-29.48	120	100
12185.0000	31.85	---	14.83	46.68	---	74.00	54.00	-27.32	140	100

Mode: TX 802.11g 2462MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
199.1182	18.45	peak	12.01	30.46	43.50	-13.04	220	100
325.4708	15.32	peak	16.56	31.88	46.00	-14.12	195	100



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Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.03	---	0.84	41.87	---	74.00	54.00	-32.13	130	100
7386.0000	39.80	---	4.43	44.23	---	74.00	54.00	-29.77	175	100
9848.0000	35.85	---	9.76	45.61	---	74.00	54.00	-28.39	210	100
12310.0000	34.01	---	14.12	48.13	---	74.00	54.00	-25.87	235	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6333	7.76	peak	15.21	22.97	43.50	-20.53	145	100
239.9400	14.42	peak	13.92	28.34	46.00	-17.66	170	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.20	---	0.84	42.04	---	74.00	54.00	-31.96	215	100
7386.0000	40.11	---	4.43	44.54	---	74.00	54.00	-29.46	240	100
9848.0000	36.01	---	9.76	45.77	---	74.00	54.00	-28.23	145	100
12310.0000	34.91	---	14.12	49.03	---	74.00	54.00	-24.97	160	100

ANT B

Mode: WLAN 802.11a 5745MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
130.1002	8.94	peak	14.30	23.24	43.50	-20.26	120	100
232.3646	19.39	peak	13.83	33.22	46.00	-12.78	75	100
323.8476	14.41	peak	16.52	30.93	46.00	-15.07	90	100
386.9740	12.75	peak	18.21	30.96	46.00	-15.04	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.0000	35.01	---	12.90	47.91	---	74.00	54.00	-26.09	90	100
17235.0000	28.25	---	21.95	50.20	---	74.00	54.00	-23.80	155	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
172.8456	19.42	peak	14.51	33.93	43.50	-9.57	155	100
229.1182	19.58	peak	13.78	33.36	46.00	-12.64	120	100
323.8477	10.32	peak	16.52	26.84	46.00	-19.16	255	100
389.7795	7.23	peak	18.29	25.52	46.00	-20.48	210	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.0000	34.53	---	12.90	47.43	---	74.00	54.00	-26.57	140	100
17235.0000	27.99	---	21.95	49.94	---	74.00	54.00	-24.06	210	100

Mode: WLAN 802.11a 5785MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
189.0782	17.23	peak	12.54	29.77	43.50	-13.73	165	100
252.9260	14.84	peak	14.22	29.06	46.00	-16.94	120	100
323.8476	15.55	peak	16.52	32.07	46.00	-13.93	155	100
386.9740	12.77	peak	18.21	30.98	46.00	-15.02	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.76	---	13.43	48.19	---	74.00	54.00	-25.81	125	100
17355.0000	28.44	---	21.76	50.20	---	74.00	54.00	-23.80	175	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.2223	17.10	peak	14.72	31.82	43.50	-11.68	170	100
258.8778	12.46	peak	14.36	26.82	46.00	-19.18	230	100
323.8477	11.52	peak	16.52	28.04	46.00	-17.96	135	100
344.8898	12.83	peak	16.97	29.80	46.00	-16.20	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.34	---	13.43	47.77	---	74.00	54.00	-26.23	210	100
17355.0000	28.16	---	21.76	49.92	---	74.00	54.00	-24.08	255	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode: WLAN 802.11a 5825MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
228.0361	20.26	peak	13.76	34.02	46.00	-11.98	190	100
264.2885	17.29	peak	14.63	31.92	46.00	-14.08	215	100
323.8476	14.39	peak	16.52	30.91	46.00	-15.09	120	100
386.9740	12.76	peak	18.21	30.97	74.00	-43.03	155	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	35.03	---	13.34	48.37	---	74.00	54.00	-25.63	140	100
17475.0000	27.95	---	21.63	49.58	---	74.00	54.00	-24.42	210	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
128.4770	12.49	peak	14.18	26.67	43.50	-16.83	110	100
251.8437	14.37	peak	14.20	28.57	46.00	-17.43	140	100
323.8477	10.68	peak	16.52	27.20	46.00	-18.80	135	100
389.7796	9.45	peak	18.29	27.74	74.00	-46.26	200	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	34.68	---	13.34	48.02	---	74.00	54.00	-25.98	230	100
17475.0000	27.40	---	21.63	49.03	---	74.00	54.00	-24.97	260	100

Mode: TX 802.11b 2412MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
187.4550	16.06	peak	12.73	28.79	43.50	-14.71	165	100
216.6132	18.54	peak	13.16	31.70	46.00	-14.30	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.37	---	0.50	41.87	---	74.00	54.00	-32.13	230	100
7236.0000	40.66	---	4.06	44.72	---	74.00	54.00	-29.28	265	100
9648.0000	35.35	---	9.16	44.51	---	74.00	54.00	-29.49	110	100
12060.0000	34.56	---	13.89	48.45	---	74.00	54.00	-25.55	135	100



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Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
199.1182	19.25	peak	12.01	31.26	43.50	-12.24	220	100
220.5010	18.76	peak	13.60	32.36	46.00	-13.64	205	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.52	---	0.50	42.02	---	74.00	54.00	-31.98	130	100
7236.0000	40.41	---	4.06	44.47	---	74.00	54.00	-29.53	145	100
9648.0000	35.64	---	9.16	44.80	---	74.00	54.00	-29.20	240	100
12060.0000	33.91	---	13.89	47.80	---	74.00	54.00	-26.20	130	100

Mode: TX 802.11b 2437MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
204.9500	14.55	peak	12.15	26.70	43.50	-16.80	230	100
325.4708	15.40	peak	16.56	31.96	46.00	-14.04	270	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.45	---	0.61	42.06	---	74.00	54.00	-31.94	170	100
7311.0000	40.34	---	4.20	44.54	---	74.00	54.00	-29.46	120	100
9748.0000	35.80	---	9.51	45.31	---	74.00	54.00	-28.69	175	100
12185.0000	31.76	---	14.83	46.59	---	74.00	54.00	-27.41	145	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
173.8477	15.95	peak	14.38	30.33	43.50	-13.17	130	100
230.2204	15.62	peak	13.81	29.43	46.00	-16.57	105	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.43	---	0.61	42.04	---	74.00	54.00	-31.96	210	100
7311.0000	40.57	---	4.20	44.77	---	74.00	54.00	-29.23	235	100
9748.0000	34.19	---	9.51	43.70	---	74.00	54.00	-30.30	240	100
12185.0000	31.58	---	14.83	46.41	---	74.00	54.00	-27.59	260	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode: TX 802.11b 2462MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
191.3427	16.06	peak	12.37	28.43	43.50	-15.07	165	100
230.2204	16.79	peak	13.81	30.60	46.00	-15.40	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.00	---	0.84	41.84	---	74.00	54.00	-32.16	240	100
7386.0000	39.58	---	4.43	44.01	---	74.00	54.00	-29.99	215	100
9848.0000	35.67	---	9.76	45.43	---	74.00	54.00	-28.57	105	100
12310.0000	35.09	---	14.12	49.21	---	74.00	54.00	-24.79	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.04	peak	14.02	22.06	40.00	-17.94	255	100
129.1383	7.32	peak	14.23	21.55	43.50	-21.95	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	40.86	---	0.84	41.70	---	74.00	54.00	-32.30	145	100
7386.0000	40.19	---	4.43	44.62	---	74.00	54.00	-29.38	120	100
9848.0000	35.15	---	9.76	44.91	---	74.00	54.00	-29.09	220	100
12310.0000	34.42	---	14.12	48.54	---	74.00	54.00	-25.46	165	100

Mode: TX 802.11g 2412MH
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
177.7355	13.00	peak	13.89	26.89	43.50	-16.61	140	100
232.1642	14.07	peak	13.83	27.90	46.00	-18.10	165	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.51	---	0.50	42.01	---	74.00	54.00	-31.99	115	100
7236.0000	40.24	---	4.06	44.30	---	74.00	54.00	-29.70	160	100
9648.0000	35.23	---	9.16	44.39	---	74.00	54.00	-29.61	230	100
12060.0000	33.83	---	13.89	47.72	---	74.00	54.00	-26.28	190	100



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Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.64	peak	14.02	22.66	40.00	-17.34	120	100
158.2966	7.54	peak	15.26	22.80	43.50	-20.70	55	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.58	---	0.50	42.08	---	74.00	54.00	-31.92	155	100
7236.0000	40.18	---	4.06	44.24	---	74.00	54.00	-29.76	140	100
9648.0000	34.81	---	9.16	43.97	---	74.00	54.00	-30.03	270	100
12060.0000	33.32	---	13.89	47.21	---	74.00	54.00	-26.79	235	100

Mode: TX 802.11g 2437MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
230.2204	13.54	peak	13.81	27.35	46.00	-18.65	255	100
325.4708	14.73	peak	16.56	31.29	46.00	-14.71	230	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.68	---	0.61	42.29	---	74.00	54.00	-31.71	155	100
7311.0000	39.91	---	4.20	44.11	---	74.00	54.00	-29.89	90	100
9748.0000	34.25	---	9.51	43.76	---	74.00	54.00	-30.24	250	100
12185.0000	32.24	---	14.83	47.07	---	74.00	54.00	-26.93	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
123.3066	12.54	peak	13.80	26.34	43.50	-17.16	160	100
175.7916	18.46	peak	14.14	32.60	43.50	-10.90	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.56	---	0.61	42.17	---	74.00	54.00	-31.83	240	100
7311.0000	39.98	---	4.20	44.18	---	74.00	54.00	-29.82	115	100
9748.0000	34.30	---	9.51	43.81	---	74.00	54.00	-30.19	140	100
12185.0000	32.50	---	14.83	47.33	---	74.00	54.00	-26.67	125	100



Worldwide Testing Services(Taiwan) Co., Ltd.

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Mode: TX 802.11g 2462MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
201.0620	15.90	peak	12.01	27.91	43.50	-15.59	160	100
226.3327	13.64	peak	13.72	27.36	46.00	-18.64	95	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	40.91	---	0.84	41.75	---	74.00	54.00	-32.25	130	100
7386.0000	39.81	---	4.43	44.24	---	74.00	54.00	-29.76	170	100
9848.0000	34.66	---	9.76	44.42	---	74.00	54.00	-29.58	125	100
12310.0000	33.90	---	14.12	48.02	---	74.00	54.00	-25.98	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
129.1383	8.33	peak	14.23	22.56	43.50	-20.94	235	100
220.5010	15.81	peak	13.60	29.41	46.00	-16.59	220	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.07	---	0.84	41.91	---	74.00	54.00	-32.09	260	100
7386.0000	39.93	---	4.43	44.36	---	74.00	54.00	-29.64	245	100
9848.0000	35.06	---	9.76	44.82	---	74.00	54.00	-29.18	110	100
12310.0000	34.29	---	14.12	48.41	---	74.00	54.00	-25.59	150	100

ANT A + B

Mode: TX WLAN 802.11n 20MHz 5745MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
224.7896	18.74	peak	13.69	32.43	46.00	-13.57	170	100
262.6653	14.69	peak	14.54	29.23	46.00	-16.77	110	100
323.8476	15.61	peak	16.52	32.13	46.00	-13.87	160	100
386.9740	12.64	peak	18.21	30.85	46.00	-15.15	145	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.0000	34.15	---	12.90	47.05	---	74.00	54.00	-26.95	230	100
17235.0000	27.68	---	21.95	49.63	---	74.00	54.00	-24.37	130	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
183.6673	18.57	peak	13.17	31.74	43.50	-11.76	140	100
244.2685	12.97	peak	14.02	26.99	46.00	-19.01	205	100
323.8477	11.15	peak	16.52	27.67	46.00	-18.33	220	100
382.7655	8.74	peak	18.08	26.82	46.00	-19.18	175	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11490.00	34.12	---	12.90	47.02	---	74.00	54.00	-26.98	265	100
17235.00	27.79	---	21.95	49.74	---	74.00	54.00	-24.26	100	100

Mode: TX WLAN 802.11n 20MHz 5785MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
231.2826	21.26	peak	13.82	35.08	46.00	-10.92	175	100
259.9600	18.33	peak	14.39	32.72	46.00	-13.28	230	100
323.8476	15.59	peak	16.52	32.11	46.00	-13.89	175	100
386.9740	14.27	peak	18.21	32.48	46.00	-13.52	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	35.30	---	13.43	48.73	---	74.00	54.00	-25.27	215	100
17355.0000	28.08	---	21.76	49.84	---	74.00	54.00	-24.16	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
231.2826	17.69	peak	13.82	31.51	46.00	-14.49	150	100
248.0561	15.03	peak	14.11	29.14	46.00	-16.86	95	100
323.8477	11.41	peak	16.52	27.93	46.00	-18.07	110	100
454.3086	10.26	peak	20.09	30.35	46.00	-15.65	165	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.69	---	13.43	48.12	---	74.00	54.00	-25.88	140	100
17355.0000	28.03	---	21.76	49.79	---	74.00	54.00	-24.21	165	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Mode: TX 802.11n 20MHz 5825MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
239.9400	18.78	peak	13.92	32.70	46.00	-13.30	240	100
271.8637	14.45	peak	15.04	29.49	46.00	-16.51	215	100
323.8476	15.27	peak	16.52	31.79	46.00	-14.21	115	100
386.9740	13.31	peak	18.21	31.52	74.00	-42.48	90	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	34.81	---	13.34	48.15	---	74.00	54.00	-25.85	160	100
17475.0000	28.42	---	21.63	50.05	---	74.00	54.00	-23.95	220	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
192.3246	21.19	peak	12.33	33.52	43.50	-9.98	120	100
257.7956	14.25	peak	14.34	28.59	46.00	-17.41	155	100
323.8477	10.78	peak	16.52	27.30	46.00	-18.70	155	100
377.1543	11.71	peak	17.91	29.62	74.00	-44.38	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	34.16	---	13.34	47.50	---	74.00	54.00	-26.50	255	100
17475.0000	27.70	---	21.63	49.33	---	74.00	54.00	-24.67	270	100

Mode: TX 802.11n 20MHz 2412MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
255.4910	18.52	peak	14.28	32.80	46.00	-13.20	115	100
325.4708	14.87	peak	16.56	31.43	46.00	-14.57	170	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.12	---	0.50	41.62	---	74.00	54.00	-32.38	95	100
7236.0000	40.89	---	4.06	44.95	---	74.00	54.00	-29.05	150	100
9648.0000	35.02	---	9.16	44.18	---	74.00	54.00	-29.82	220	100
12060.0000	34.35	---	13.89	48.24	---	74.00	54.00	-25.76	145	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.49	peak	14.02	22.51	40.00	-17.49	230	100
125.2505	8.91	peak	13.94	22.85	43.50	-20.65	205	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.40	---	0.50	41.90	---	74.00	54.00	-32.10	170	100
7236.0000	40.35	---	4.06	44.41	---	74.00	54.00	-29.59	135	100
9648.0000	34.84	---	9.16	44.00	---	74.00	54.00	-30.00	140	100
12060.0000	34.06	---	13.89	47.95	---	74.00	54.00	-26.05	190	100

Mode: TX 802.11n 20MHz 2437MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
226.3327	21.01	peak	13.72	34.73	46.00	-11.27	230	100
325.4708	14.41	peak	16.56	30.97	46.00	-15.03	210	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.64	---	0.61	42.25	---	74.00	54.00	-31.75	150	100
7311.0000	40.36	---	4.20	44.56	---	74.00	54.00	-29.44	165	100
9748.0000	34.75	---	9.51	44.26	---	74.00	54.00	-29.74	260	100
12185.0000	32.78	---	14.83	47.61	---	74.00	54.00	-26.39	245	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	9.15	peak	14.02	23.17	40.00	-16.83	170	100
185.5110	19.63	peak	12.96	32.59	43.50	-10.91	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.55	---	0.61	42.16	---	74.00	54.00	-31.84	195	100
7311.0000	40.20	---	4.20	44.40	---	74.00	54.00	-29.60	150	100
9748.0000	34.64	---	9.51	44.15	---	74.00	54.00	-29.85	230	100
12185.0000	32.49	---	14.83	47.32	---	74.00	54.00	-26.68	220	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Mode: TX 802.11n 20MHz 2462MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
230.2204	12.83	peak	13.81	26.64	46.00	-19.36	110	100
325.4708	15.09	peak	16.56	31.65	46.00	-14.35	145	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	40.96	---	0.84	41.80	---	74.00	54.00	-32.20	165	100
7386.0000	39.70	---	4.43	44.13	---	74.00	54.00	-29.87	140	100
9848.0000	35.94	---	9.76	45.70	---	74.00	54.00	-28.30	115	100
12310.0000	34.37	---	14.12	48.49	---	74.00	54.00	-25.51	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	9.24	peak	14.02	23.26	40.00	-16.74	230	100
148.5772	7.56	peak	15.26	22.82	43.50	-20.68	270	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	40.94	---	0.84	41.78	---	74.00	54.00	-32.22	245	100
7386.0000	39.55	---	4.43	43.98	---	74.00	54.00	-30.02	210	100
9848.0000	35.45	---	9.76	45.21	---	74.00	54.00	-28.79	160	100
12310.0000	34.46	---	14.12	48.58	---	74.00	54.00	-25.42	135	100

Mode: TX WLAN 802.11n 40MHz 5755MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
192.3246	20.20	peak	12.33	32.53	43.50	-10.97	165	100
257.2545	16.52	peak	14.32	30.84	46.00	-15.16	110	100
323.8476	15.29	peak	16.52	31.81	46.00	-14.19	200	100
386.9740	12.45	peak	18.21	30.66	46.00	-15.34	175	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11510.0000	34.97	---	13.06	48.03	---	74.00	54.00	-25.97	90	100
17265.0000	28.52	---	22.39	50.91	---	74.00	54.00	-23.09	230	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
251.3026	15.59	peak	14.18	29.77	46.00	-16.23	105	100
260.5010	11.51	peak	14.42	25.93	46.00	-20.07	140	100
323.8477	11.12	peak	16.52	27.64	46.00	-18.36	105	100
389.7795	6.89	peak	18.29	25.18	46.00	-20.82	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11510.0000	34.70	---	13.06	47.76	---	74.00	54.00	-26.24	125	100
17265.0000	28.67	---	22.39	51.06	---	74.00	54.00	-22.94	255	100

Mode: TX WLAN 802.11n 40MHz 5795MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
257.7956	14.28	peak	14.34	28.62	46.00	-17.38	190	100
268.6172	15.08	peak	14.88	29.96	46.00	-16.04	240	100
323.8476	14.54	peak	16.52	31.06	46.00	-14.94	210	100
386.9740	13.86	peak	18.21	32.07	46.00	-13.93	240	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11590.0000	34.29	---	13.55	47.84	---	74.00	54.00	-26.16	210	100
17385.0000	28.86	---	21.14	50.00	---	74.00	54.00	-24.00	240	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
173.9280	17.32	peak	14.37	31.69	43.50	-11.81	220	100
222.6253	17.93	peak	13.65	31.58	46.00	-14.42	235	100
323.8477	10.74	peak	16.52	27.26	46.00	-18.74	155	100
454.3086	9.77	peak	20.09	29.86	46.00	-16.14	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11590.0000	36.22	---	13.55	49.77	---	74.00	54.00	-24.23	260	100
17385.0000	28.50	---	21.14	49.64	---	74.00	54.00	-24.36	110	100



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Mode: TX 802.11n 40MHz 2422MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
230.2204	13.67	peak	13.81	27.48	46.00	-18.52	260	100
325.4708	15.11	peak	16.56	31.67	46.00	-14.33	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4844.0000	40.33	---	0.54	40.87	---	74.00	54.00	-33.13	145	100
7266.0000	40.64	---	4.11	44.75	---	74.00	54.00	-29.25	130	100
9688.0000	36.84	---	9.19	46.03	---	74.00	54.00	-27.97	160	100
12110.0000	33.22	---	14.34	47.56	---	74.00	54.00	-26.44	210	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.12	peak	14.02	22.14	40.00	-17.86	165	100
203.0060	15.98	peak	12.08	28.06	43.50	-15.44	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4844.0000	40.62	---	0.54	41.16	---	74.00	54.00	-32.84	110	100
7266.0000	40.85	---	4.11	44.96	---	74.00	54.00	-29.04	160	100
9688.0000	35.36	---	9.19	44.55	---	74.00	54.00	-29.45	270	100
12110.0000	33.57	---	14.34	47.91	---	74.00	54.00	-26.09	215	100

Mode: TX 802.11n 40MHz 2437MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
226.3327	13.91	peak	13.72	27.63	46.00	-18.37	240	100
325.4708	14.96	peak	16.56	31.52	46.00	-14.48	160	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.61	---	0.61	42.22	---	74.00	54.00	-31.78	75	100
7311.0000	40.00	---	4.20	44.20	---	74.00	54.00	-29.80	120	100
9748.0000	34.99	---	9.51	44.50	---	74.00	54.00	-29.50	135	100
12185.0000	31.70	---	14.83	46.53	---	74.00	54.00	-27.47	115	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	13.25	peak	14.09	27.34	43.50	-16.16	135	100
362.4048	11.72	peak	17.44	29.16	46.00	-16.84	70	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4874.0000	41.74	---	0.61	42.35	---	74.00	54.00	-31.65	240	100
7311.0000	40.00	---	4.20	44.20	---	74.00	54.00	-29.80	155	100
9748.0000	34.72	---	9.51	44.23	---	74.00	54.00	-29.77	140	100
12185.0000	32.53	---	14.83	47.36	---	74.00	54.00	-26.64	165	100

Mode: TX 802.11n 40MHz 2452MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
232.1643	12.85	peak	13.83	26.68	46.00	-19.32	145	100
325.4708	14.76	peak	16.56	31.32	46.00	-14.68	100	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4904.0000	41.13	---	0.70	41.83	---	74.00	54.00	-32.17	120	100
7356.0000	40.79	---	4.34	45.13	---	74.00	54.00	-28.87	165	100
9808.0000	35.57	---	9.83	45.40	---	74.00	54.00	-28.60	275	100
12260.0000	33.11	---	14.37	47.48	---	74.00	54.00	-26.52	215	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
175.7916	16.33	peak	14.14	30.47	43.50	-13.03	180	100
243.8277	15.44	peak	14.01	29.45	46.00	-16.55	135	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4904.0000	40.91	---	0.70	41.61	---	74.00	54.00	-32.39	130	100
7356.0000	40.72	---	4.34	45.06	---	74.00	54.00	-28.94	175	100
9808.0000	36.03	---	9.83	45.86	---	74.00	54.00	-28.14	120	100
12260.0000	33.30	---	14.37	47.67	---	74.00	54.00	-26.33	75	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode: TX Bluetooth 2.0 Normal+EDR 2402MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
325.4708	14.04	peak	16.56	30.60	46.00	-15.40	170	100
387.6754	13.83	peak	18.23	32.06	46.00	-13.94	145	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4804.0000	41.91	---	0.45	42.36	---	74.00	54.00	-31.64	155	100
7206.0000	39.34	---	4.01	43.35	---	74.00	54.00	-30.65	120	100
9608.0000	34.03	---	9.14	43.17	---	74.00	54.00	-30.83	175	100
12010.0000	33.14	---	13.41	46.55	---	74.00	54.00	-27.45	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
179.6794	11.38	peak	13.64	25.02	43.50	-18.48	225	100
261.3226	12.16	peak	14.46	26.62	46.00	-19.38	105	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4804.0000	42.00	---	0.45	42.45	---	74.00	54.00	-31.55	240	100
7206.0000	40.94	---	4.01	44.95	---	74.00	54.00	-29.05	210	100
9608.0000	34.57	---	9.14	43.71	---	74.00	54.00	-30.29	220	100
12010.0000	35.08	---	13.41	48.49	---	74.00	54.00	-25.51	265	100

Mode: TX Bluetooth 2.0 Normal+EDR 2441MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
179.6793	14.64	peak	13.64	28.28	43.50	-15.22	165	100
230.2204	13.40	peak	13.81	27.21	46.00	-18.79	140	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4882.0000	42.05	---	0.63	42.68	---	74.00	54.00	-31.32	130	100
7323.0000	40.66	---	4.24	44.90	---	74.00	54.00	-29.10	140	100
9764.0000	34.79	---	9.61	44.40	---	74.00	54.00	-29.60	220	100
12205.0000	32.54	---	14.88	47.42	---	74.00	54.00	-26.58	245	100



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Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
129.1383	9.56	peak	14.23	23.79	43.50	-19.71	160	100
214.6693	15.44	peak	12.92	28.36	43.50	-15.14	75	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4882.0000	41.69	---	0.63	42.32	---	74.00	54.00	-31.68	105	100
7323.0000	40.36	---	4.24	44.60	---	74.00	54.00	-29.40	170	100
9764.0000	34.58	---	9.61	44.19	---	74.00	54.00	-29.81	120	100
12205.0000	31.39	---	14.88	46.27	---	74.00	54.00	-27.73	175	100

Mode: TX Bluetooth 2.0 Normal+EDR 2480 MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
234.1082	20.64	peak	13.85	34.49	46.00	-11.51	145	100
302.1442	16.51	peak	15.96	32.47	46.00	-13.53	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4960.0000	40.64	---	1.10	41.74	---	74.00	54.00	-32.26	145	100
7440.0000	40.44	---	4.47	44.91	---	74.00	54.00	-29.09	130	100
9920.0000	34.63	---	9.65	44.28	---	74.00	54.00	-29.72	175	100
12400.0000	31.21	---	15.29	46.50	---	74.00	54.00	-27.50	200	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
41.6633	8.88	peak	14.13	23.01	40.00	-16.99	230	100
129.1383	9.58	peak	14.23	23.81	43.50	-19.69	210	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4960.0000	41.01	---	1.10	42.11	---	74.00	54.00	-31.89	120	100
7440.0000	41.42	---	4.47	45.89	---	74.00	54.00	-28.11	145	100
9920.0000	34.52	---	9.65	44.17	---	74.00	54.00	-29.83	210	100
12400.0000	31.62	---	15.29	46.91	---	74.00	54.00	-27.09	140	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode: TX Bluetooth 4.0 2402MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
195.2305	16.99	peak	12.19	29.18	43.50	-14.32	220	100
387.6754	14.15	peak	18.23	32.38	46.00	-13.62	235	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4801.6030	42.89	---	0.44	43.33	---	74.00	54.00	-30.67	230	100
7206.0000	41.37	---	4.01	45.38	---	74.00	54.00	-28.62	245	100
9608.0000	35.18	---	9.14	44.32	---	74.00	54.00	-29.68	270	100
12010.0000	33.62	---	13.41	47.03	---	74.00	54.00	-26.97	220	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
175.7916	12.94	peak	14.14	27.08	43.50	-16.42	120	100
218.5571	16.93	peak	13.41	30.34	46.00	-15.66	155	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4785.5710	43.03	---	0.41	43.44	---	74.00	54.00	-30.56	130	100
7206.0000	41.33	---	4.01	45.34	---	74.00	54.00	-28.66	160	100
9608.0000	34.52	---	9.14	43.66	---	74.00	54.00	-30.34	275	100
12010.0000	32.57	---	13.41	45.98	---	74.00	54.00	-28.02	210	100

Mode: TX Bluetooth 4.0 2440MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
234.1082	13.73	peak	13.85	27.58	46.00	-18.42	135	100
325.4708	14.56	peak	16.56	31.12	46.00	-14.88	160	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4880.0000	41.70	---	0.62	42.32	---	74.00	54.00	-31.68	155	100
7320.0000	40.66	---	4.23	44.89	---	74.00	54.00	-29.11	130	100
9760.0000	33.59	---	9.58	43.17	---	74.00	54.00	-30.83	210	100
12200.0000	32.32	---	14.93	47.25	---	74.00	54.00	-26.75	235	100



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Registration number: W6M21304-13125-C-1
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Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
39.7194	8.74	peak	14.02	22.76	40.00	-17.24	210	100
325.4710	11.14	peak	16.56	27.70	46.00	-18.30	255	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4880.0000	41.37	---	0.62	41.99	---	74.00	54.00	-32.01	115	100
7320.0000	40.32	---	4.23	44.55	---	74.00	54.00	-29.45	150	100
9760.0000	35.13	---	9.58	44.71	---	74.00	54.00	-29.29	235	100
12200.0000	31.79	---	14.93	46.72	---	74.00	54.00	-27.28	260	100

Mode: TX Bluetooth 4.0 2480MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
197.1741	19.38	peak	12.10	31.48	43.50	-12.02	275	100
387.6754	12.18	peak	18.23	30.41	46.00	-15.59	250	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4960.0000	40.44	---	1.10	41.54	---	74.00	54.00	-32.46	145	100
7440.0000	40.76	---	4.47	45.23	---	74.00	54.00	-28.77	170	100
9920.0000	33.40	---	9.65	43.05	---	74.00	54.00	-30.95	165	100
12400.0000	32.67	---	15.29	47.96	---	74.00	54.00	-26.04	135	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
171.9037	17.61	peak	14.63	32.24	43.50	-11.26	115	100
222.4448	16.77	peak	13.64	30.41	46.00	-15.59	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4960.0000	41.06	---	1.10	42.16	---	74.00	54.00	-31.84	75	100
7440.0000	40.71	---	4.47	45.18	---	74.00	54.00	-28.82	150	100
9920.0000	34.52	---	9.65	44.17	---	74.00	54.00	-29.83	235	100
12400.0000	32.78	---	15.29	48.07	---	74.00	54.00	-25.93	220	100



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Note

1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.72 dB, 1-18 GHz = ± 5.33 dB, 18-40 GHz = ± 3.43 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams in appendix.**

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

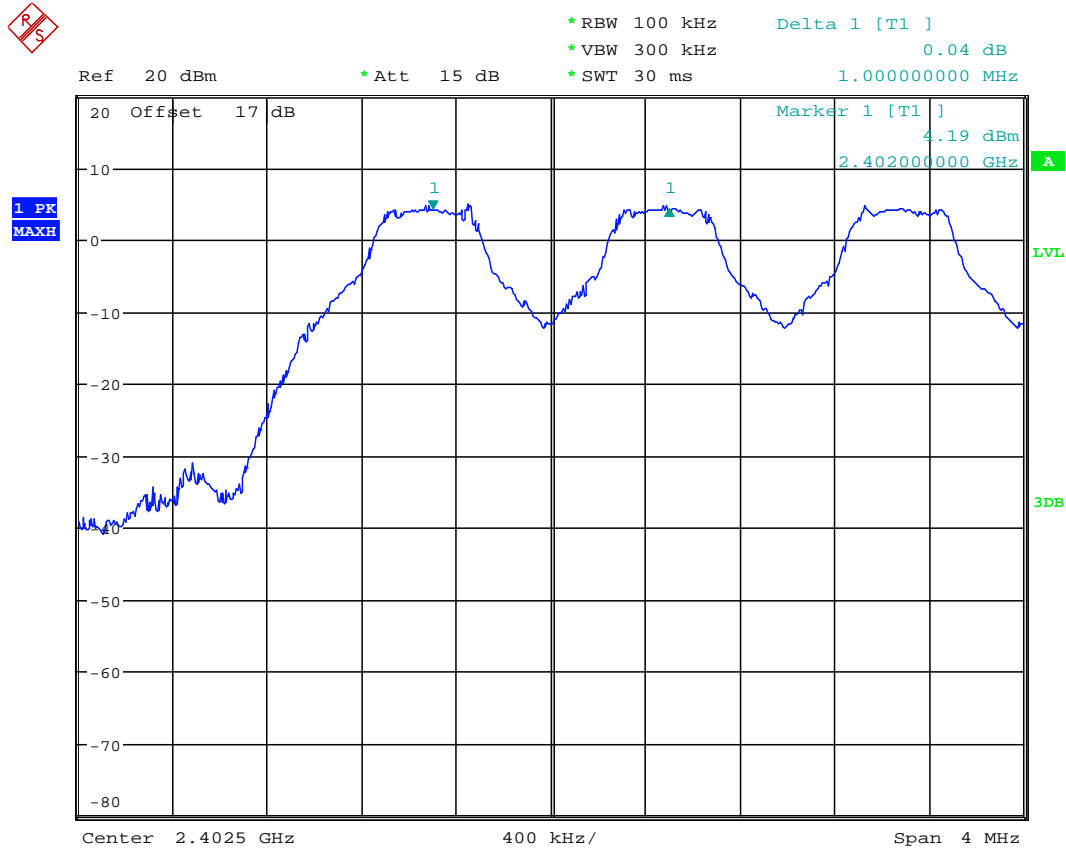
Test equipment used: ETSTW-RE 003, ETSTW-RE 030, ETSTW-RE 111,
ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064



Registration number: W6M21304-13125-C-1
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3.5 Carrier Frequency Separation

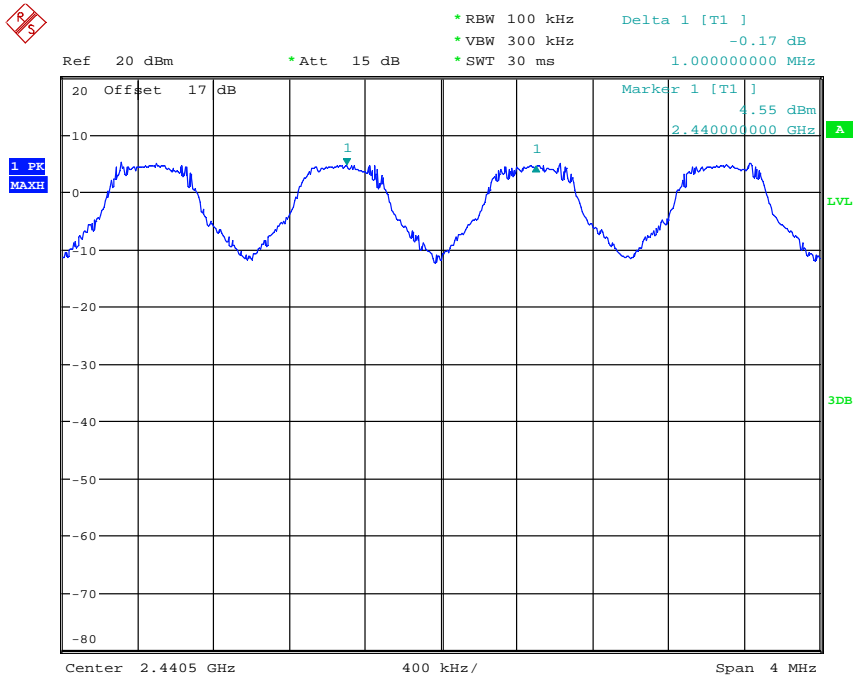
Carrier Frequency Separation was measured with modulation (declared by manufacturer). According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.



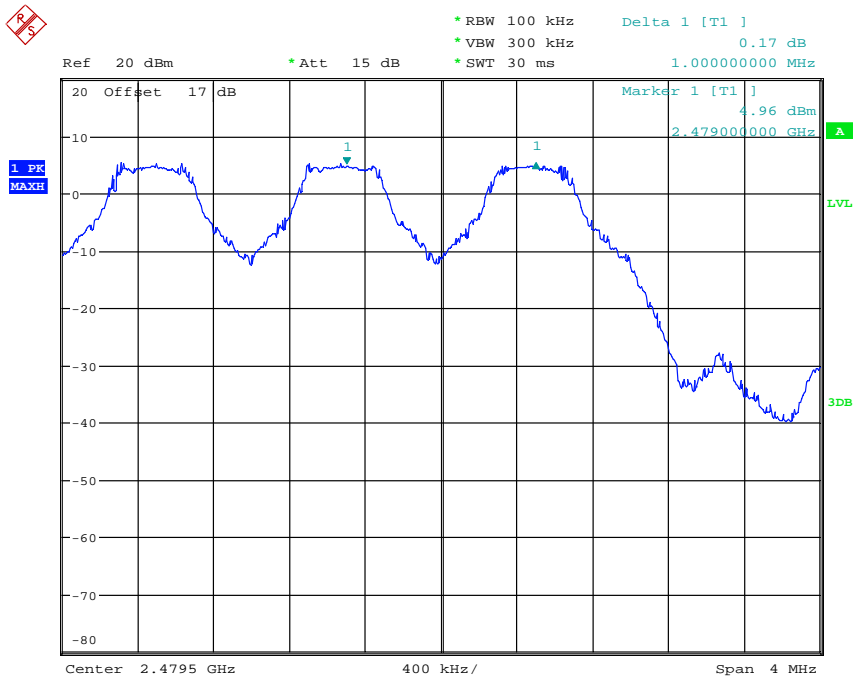
FREQUENCY SEPARATION CH0
Date: 22.MAY.2013 10:43:41



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



FREQUENCY SEPARATION CH39
Date: 22.MAY.2013 10:44:25



FREQUENCY SEPARATION CH78
Date: 22.MAY.2013 10:45:13



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

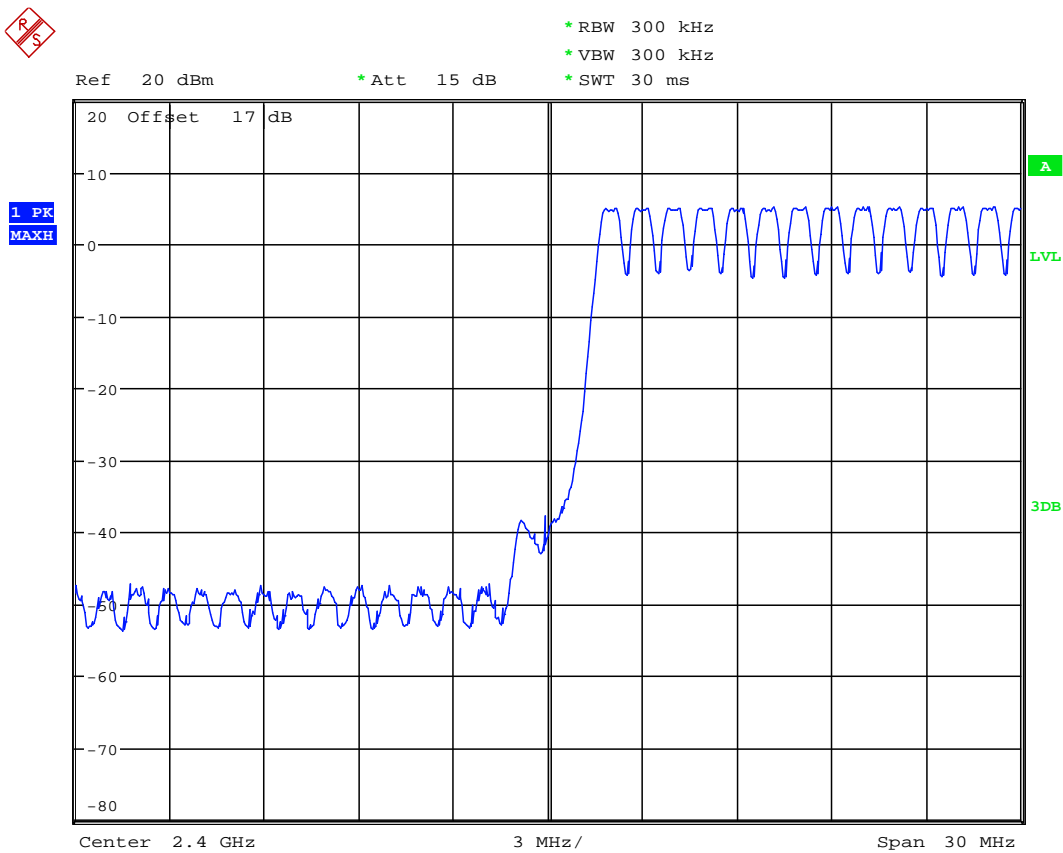


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.6 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use at least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

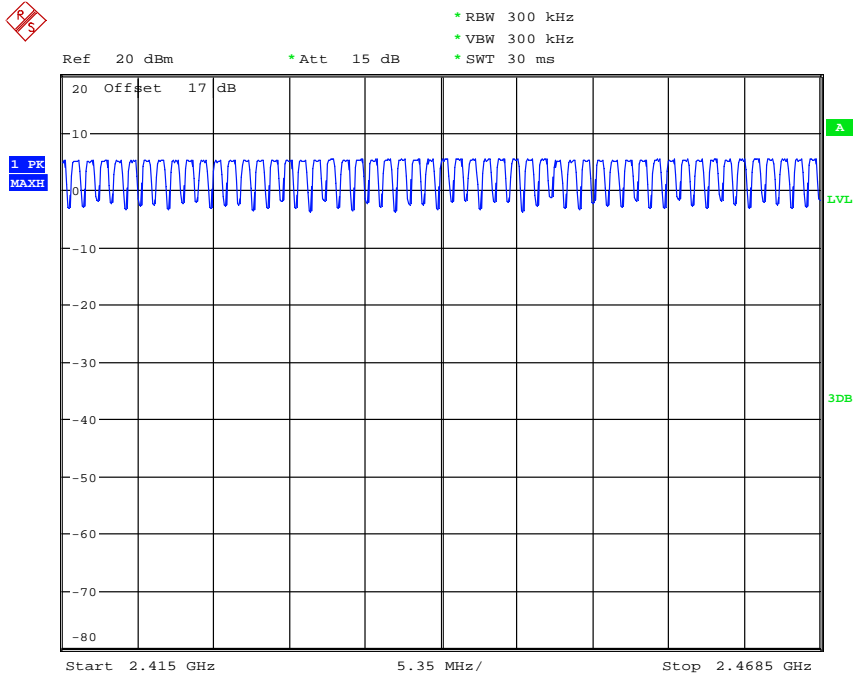


NUMBER OF HOPPING CH0-13

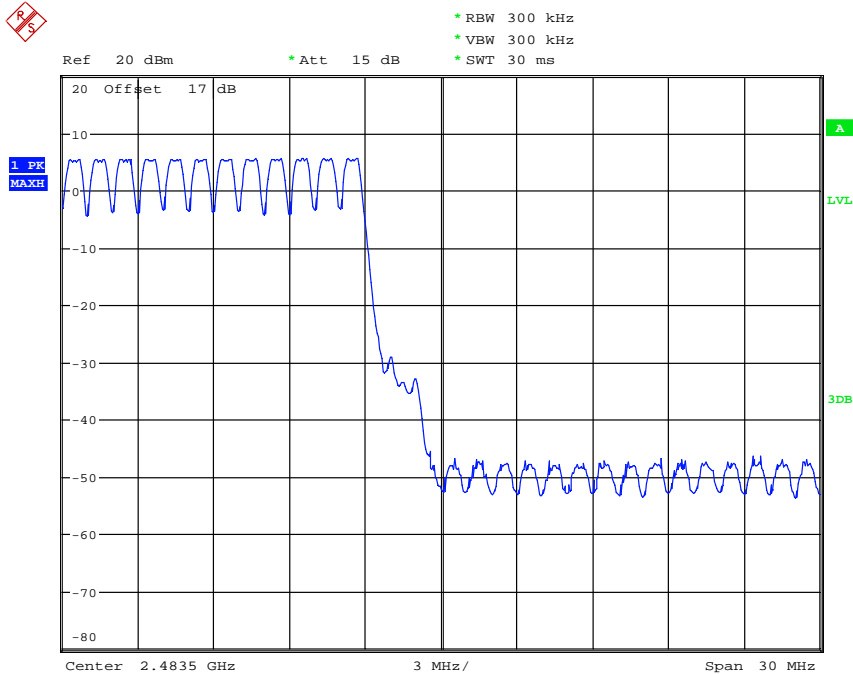
Date: 22.MAY.2013 10:40:57



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



NUMBER OF HOPPING CH14-66
Date: 22.MAY.2013 10:42:49



NUMBER OF HOPPING CH67-78
Date: 22.MAY.2013 10:41:37



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Limits:

Frequency Range MHz	Limit	
	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth ≥ 250 kHz	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.6.1 Pseudorandom Frequency Hopping Sequence

The generation of the hopping sequence is determined by the Bluetooth cord specification and complies with the FCC requirements.

3.6.2 Coordination of hopping sequences to other transmitters

According to the Bluetooth core specification such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

3.6.3 System Receiver Hopping Capability

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.



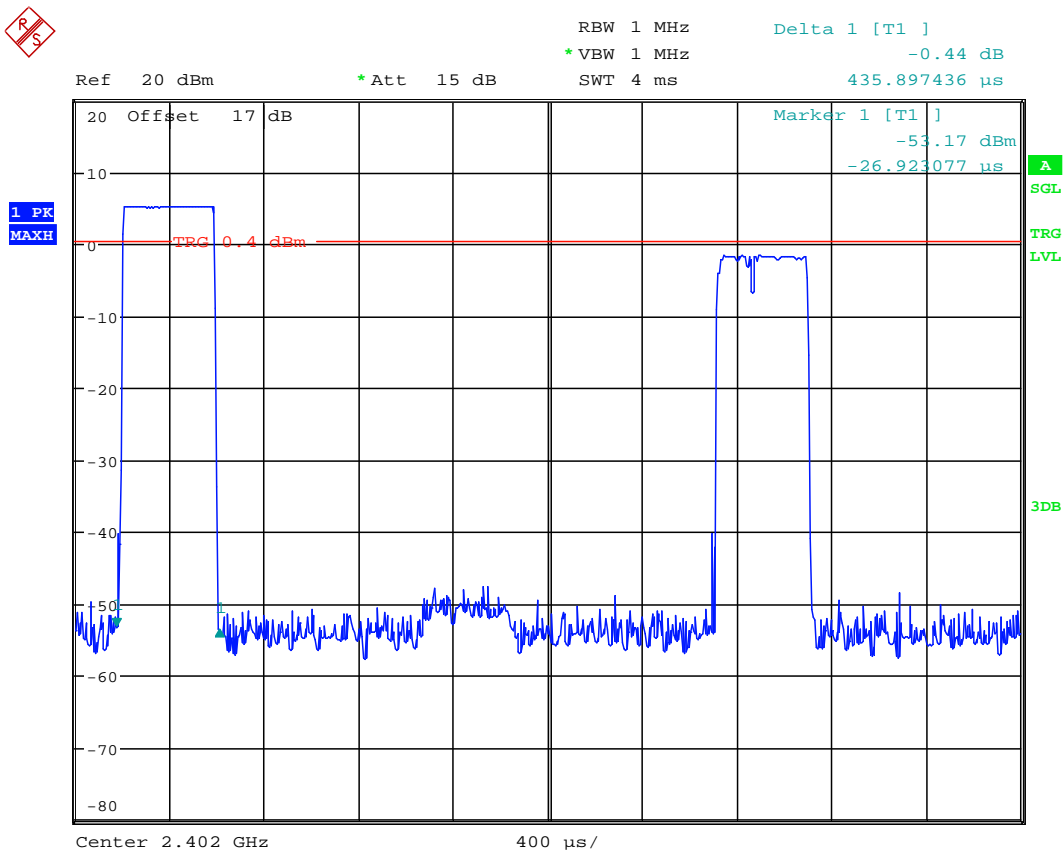
Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.7 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

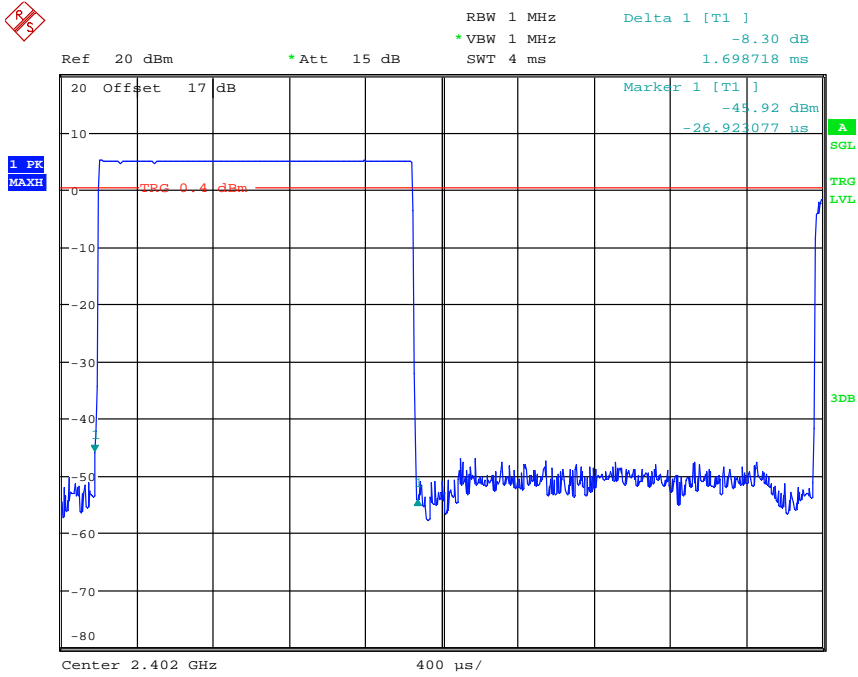


DWELL TIME CH0 DH1(0.436ms * 320events = 139.52ms)

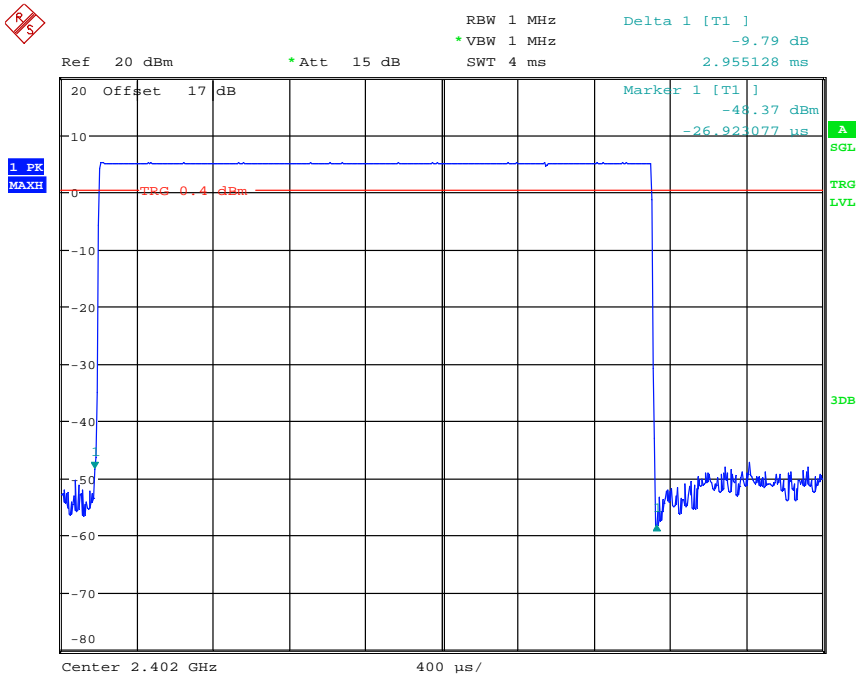
Date: 22.MAY.2013 11:21:47



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



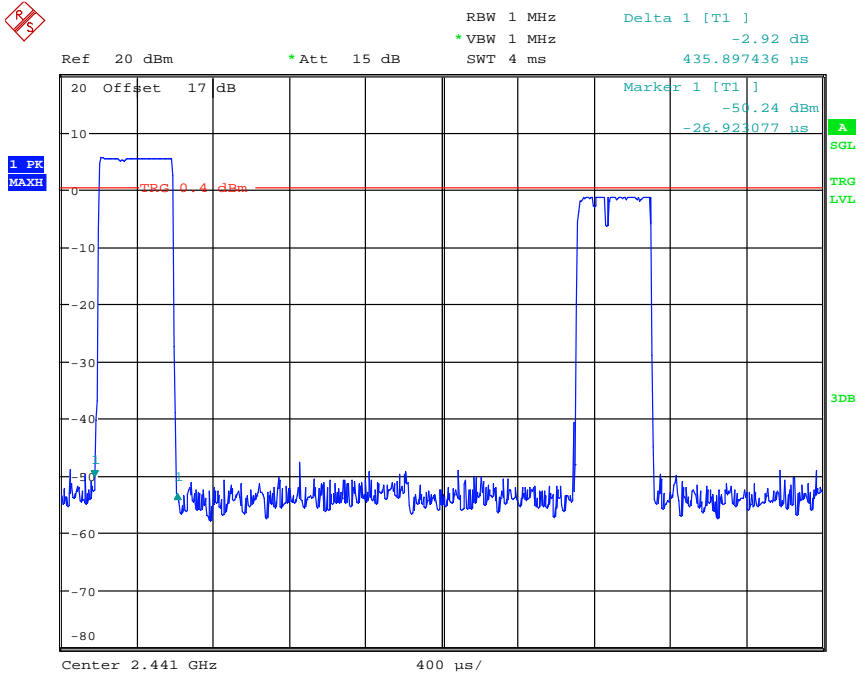
DWELL TIME CH0 DH3(1.699ms * 160events = 271.85ms)
Date: 22.MAY.2013 11:19:09



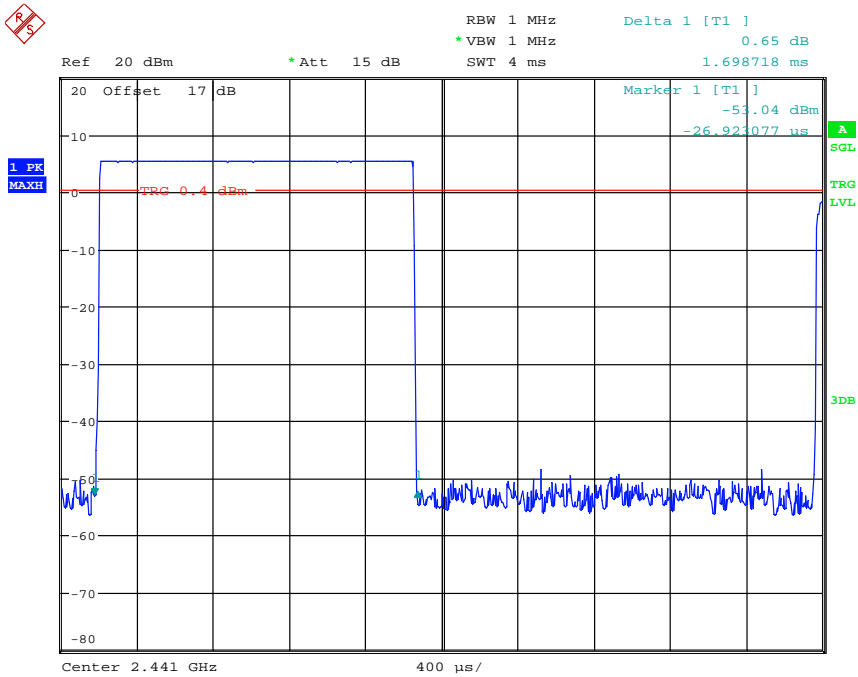
DWELL TIME CH0 DH5(2.955ms * 110events = 325.05ms)
Date: 22.MAY.2013 11:15:45



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



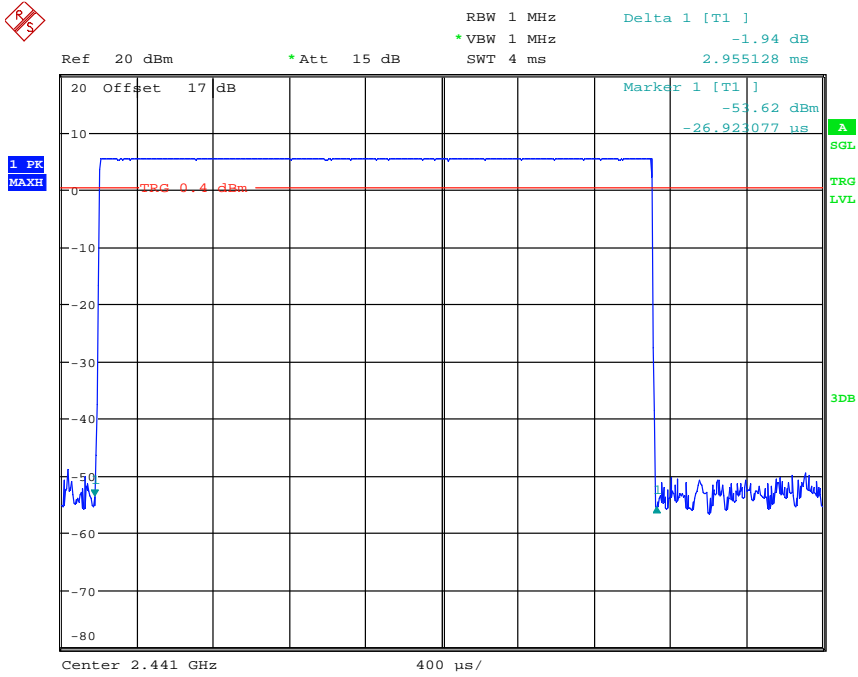
DWELL TIME CH39 DH1(0.436ms * 320events = 139.52ms)
Date: 22.MAY.2013 11:22:06



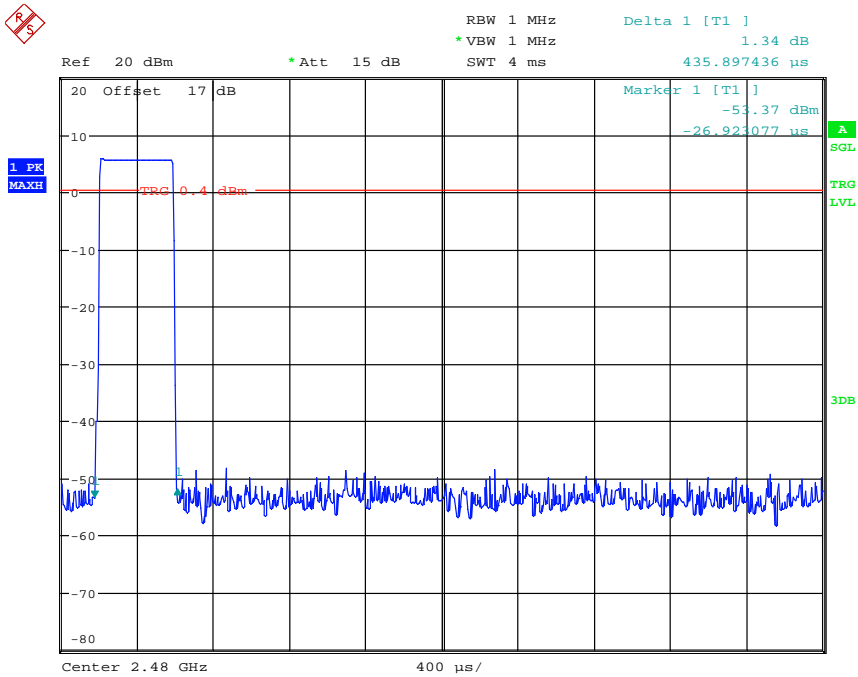
DWELL TIME CH39 DH3(1.699ms * 160events = 271.85ms)
Date: 22.MAY.2013 11:18:47



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



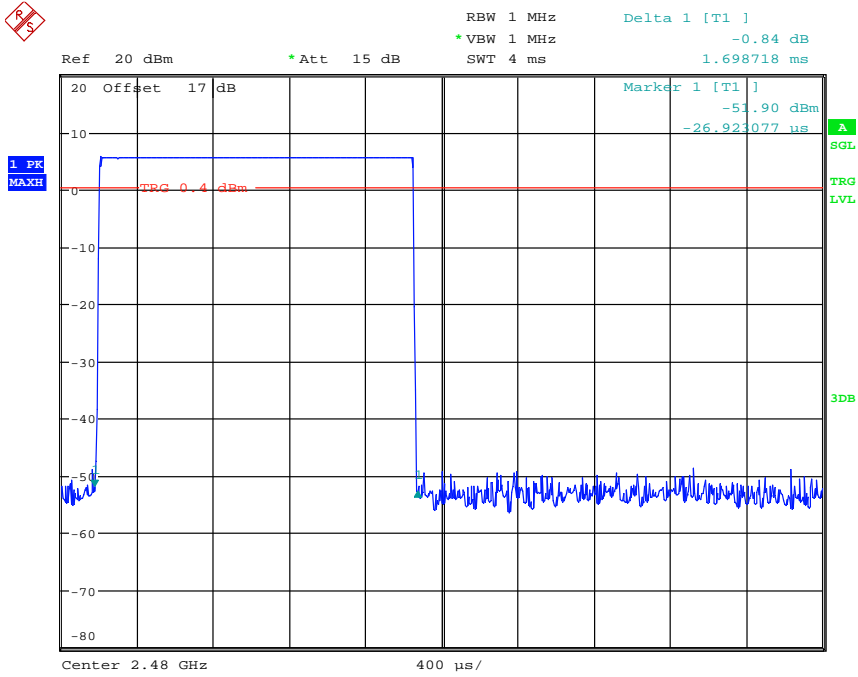
DWELL TIME CH39 DH5(2.955ms * 110events = 325.05ms)
Date: 22.MAY.2013 11:16:07



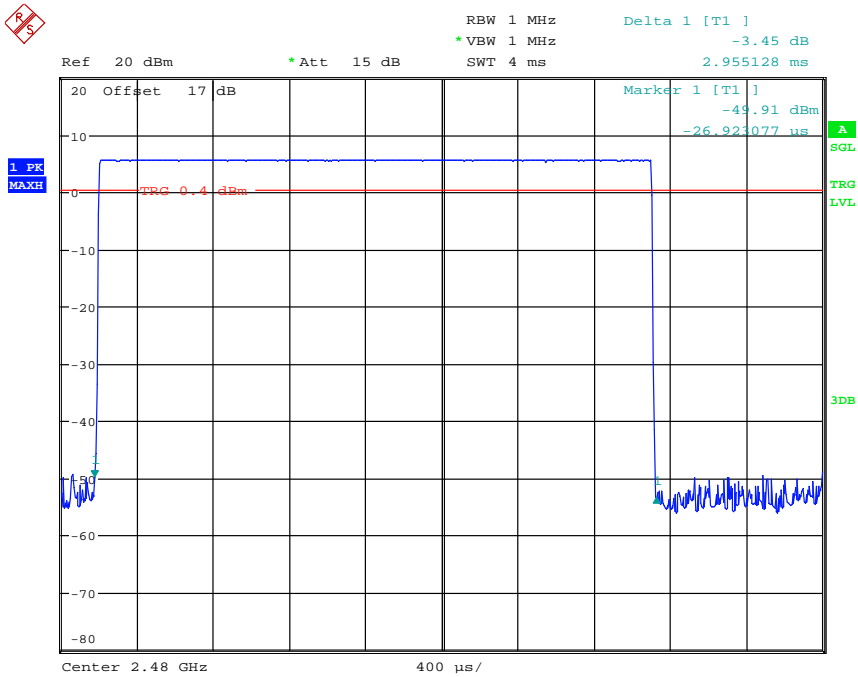
DWELL TIME CH78 DH1(0.436ms * 320events = 139.52ms)
Date: 22.MAY.2013 11:22:32



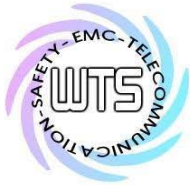
Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



DWELL TIME CH78 DH3(1.699ms * 160events = 271.85ms)
Date: 22.MAY.2013 11:18:16



DWELL TIME CH78 DH5(2.955ms * 110events = 325.05ms)
Date: 22.MAY.2013 11:16:39



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Limits and measurement periods:

Frequency MHz	Number of channels	Measurement Periode	Limit
902 – 928	≥ 50	20 s	0.4 s
	$49 \geq 25$	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

Test equipment used: ETSTW-RE 055, ETSTW-RE 064



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

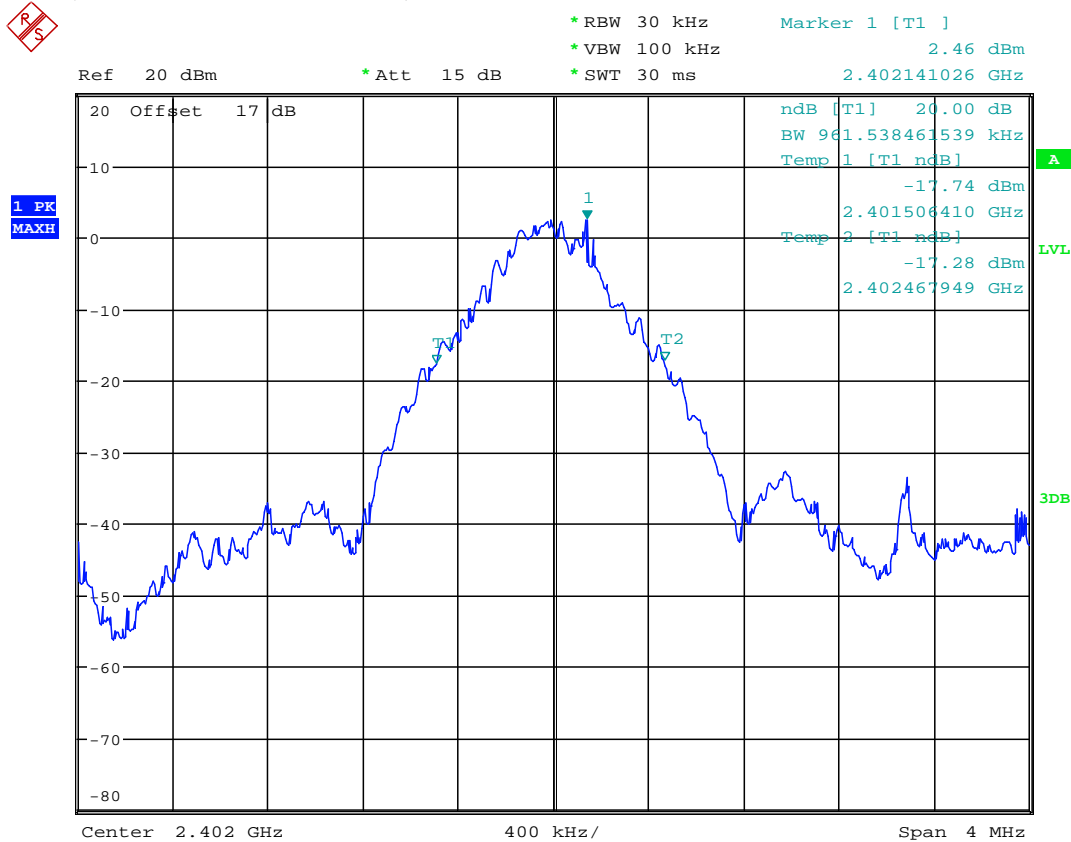
3.8 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Mode H (Bluetooth Normal mode)



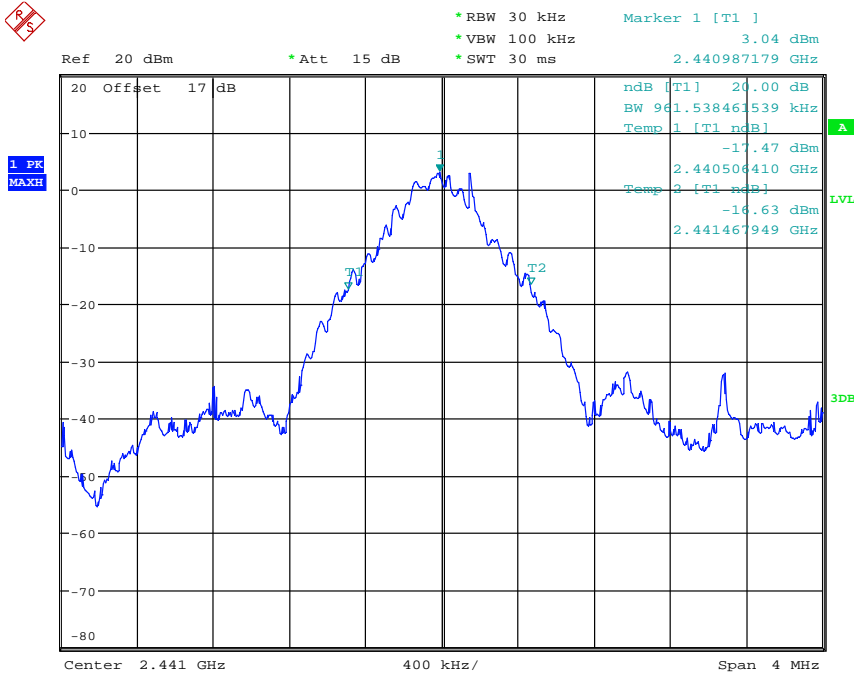
20DB BANDWIDTH CH0

Date: 22.MAY.2013 10:25:41

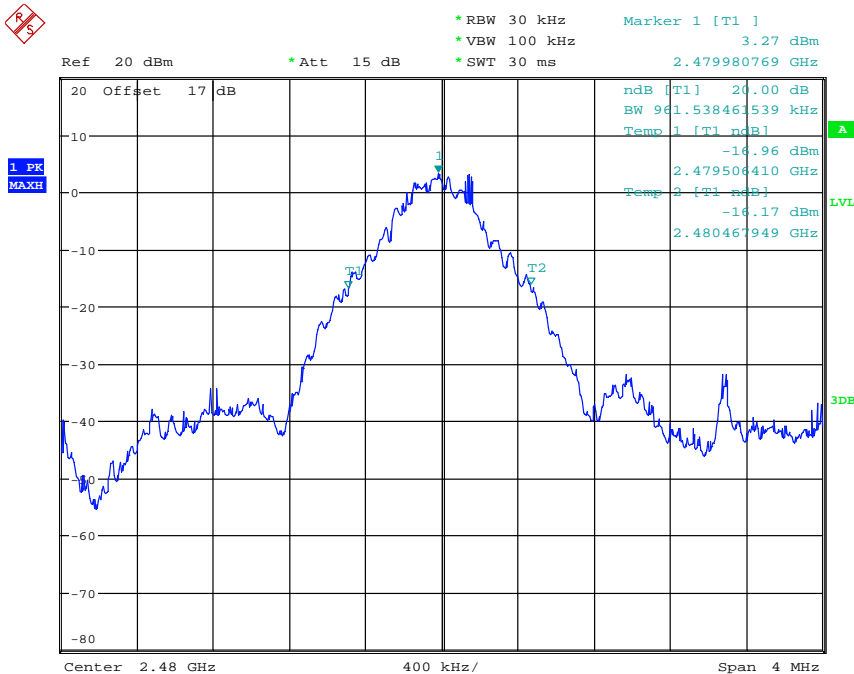


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
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20DB BANDWIDTH CH39
Date: 22.MAY.2013 10:38:41

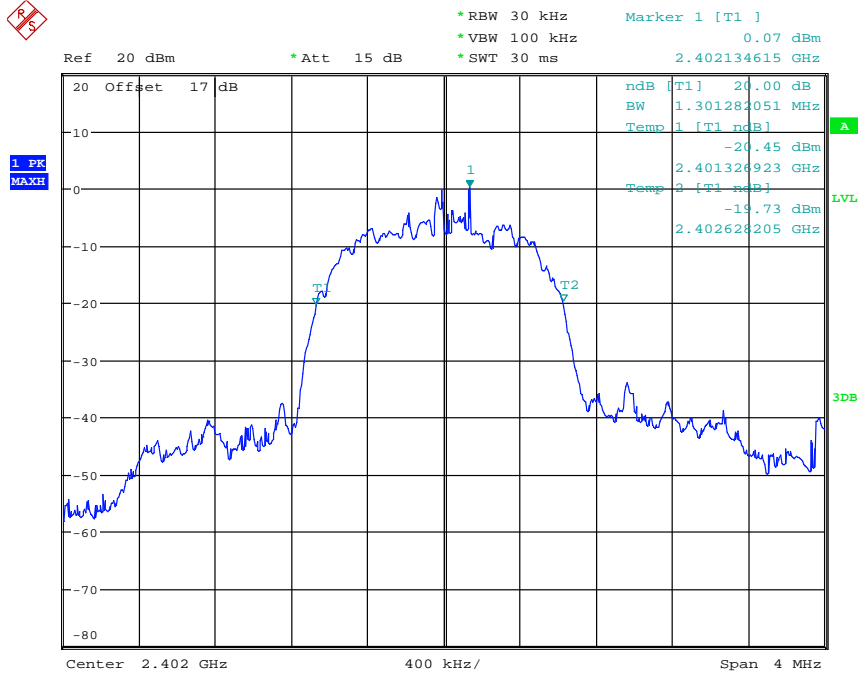


20DB BANDWIDTH CH78
Date: 22.MAY.2013 10:39:37

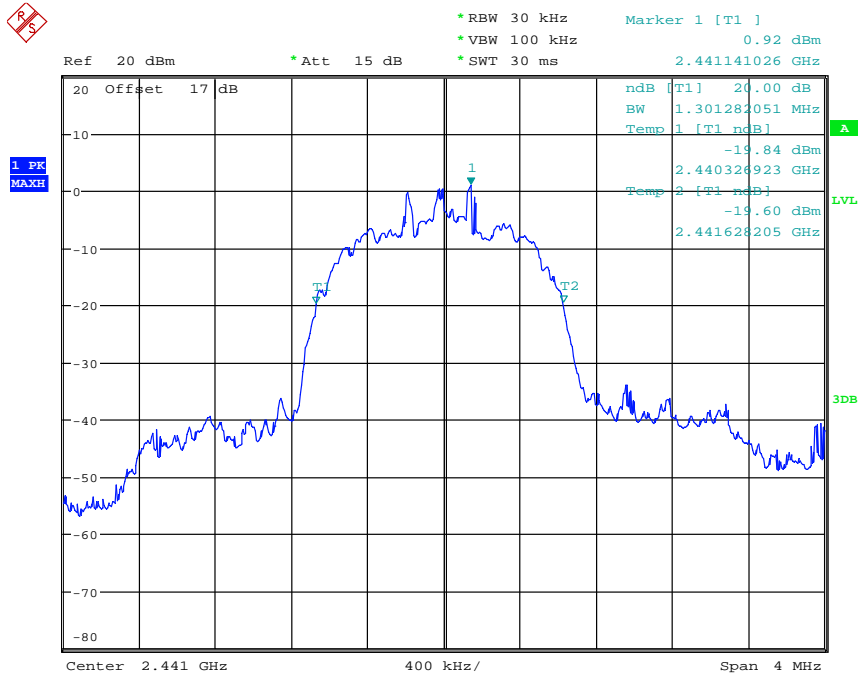


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode I (Bluetooth EDR mode)



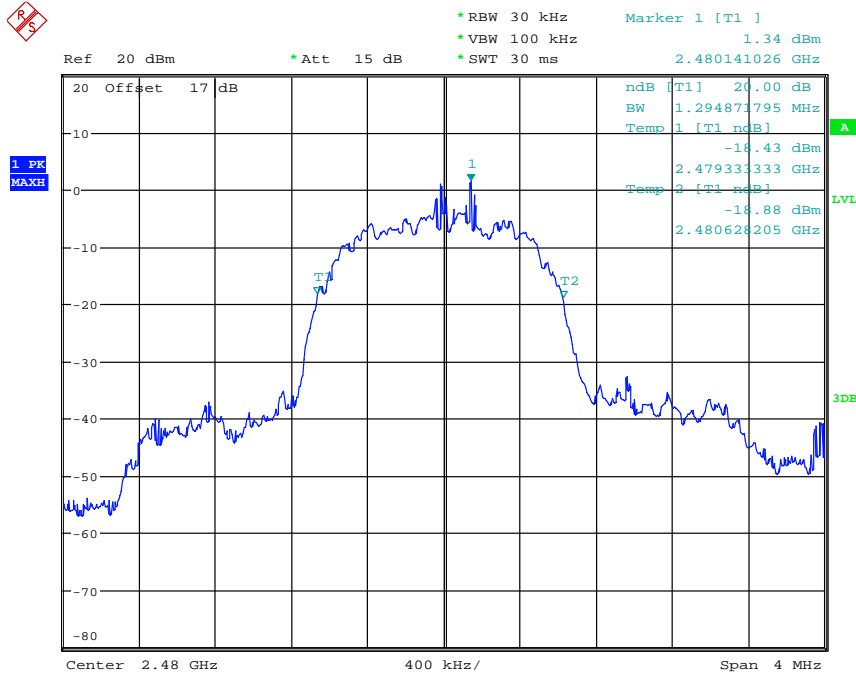
20DB BANDWIDTH CH0 EDR MODE
Date: 22.MAY.2013 10:48:45



20DB BANDWIDTH CH39 EDR MODE
Date: 22.MAY.2013 10:51:25



Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10



20DB BANDWIDTH CH78 EDR MODE
 Date: 22.MAY.2013 10:51:45

Limits:

Frequency Range / MHz	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.8.1 System Receiver Input Bandwidth

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

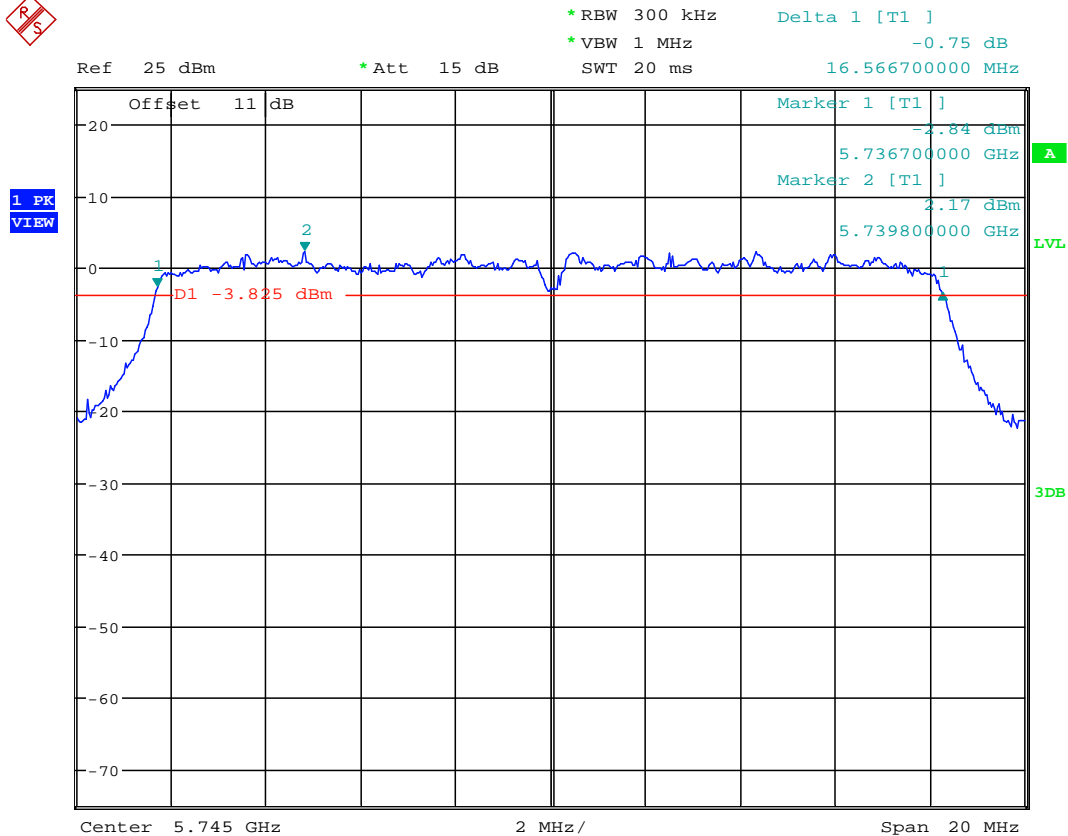
3.9 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

ANT A

Mode A

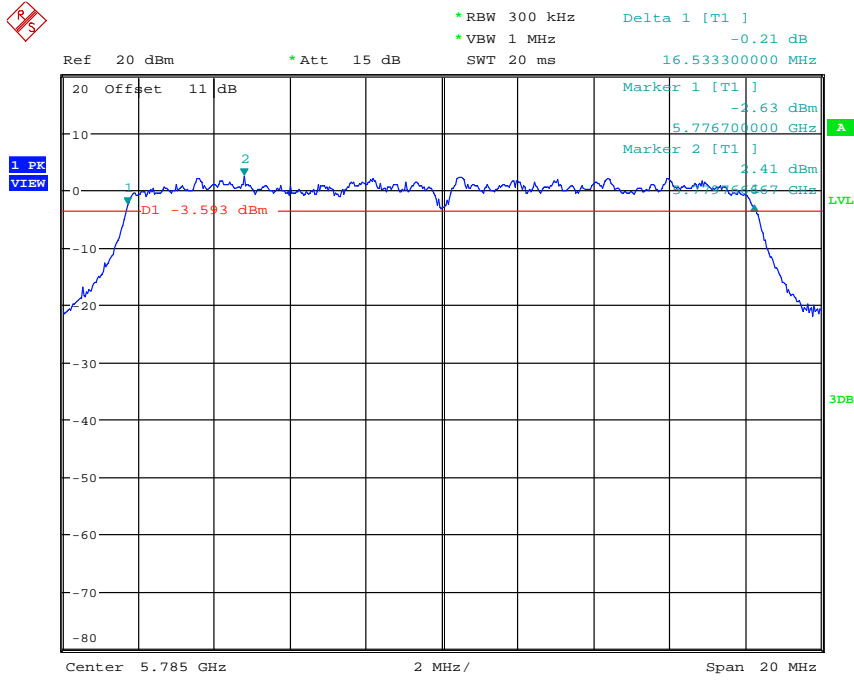


6DB BANDWIDTH 802.11A CH149

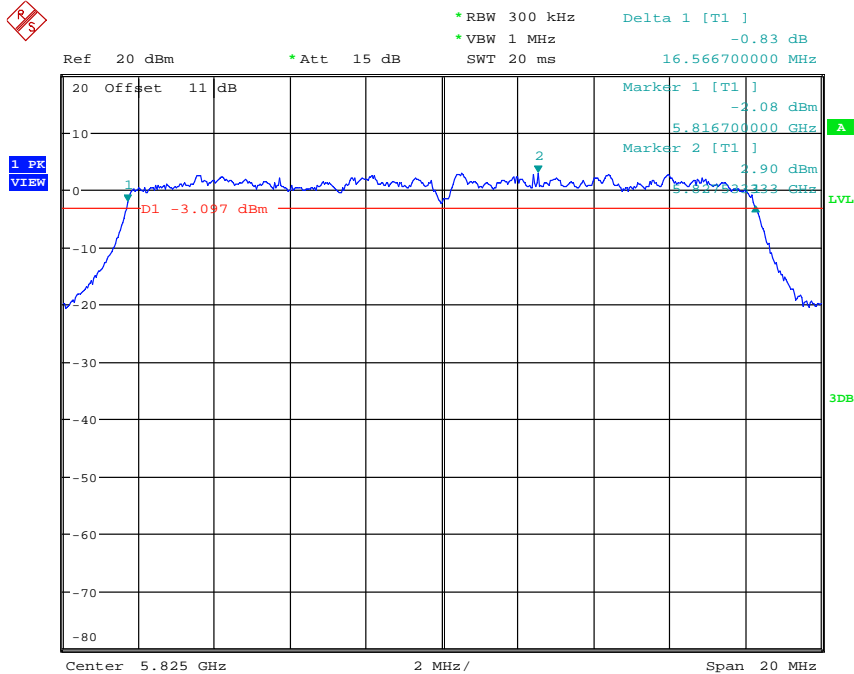
Date: 22.MAY.2013 09:56:36



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11A CH157
Date: 22.MAY.2013 09:57:16

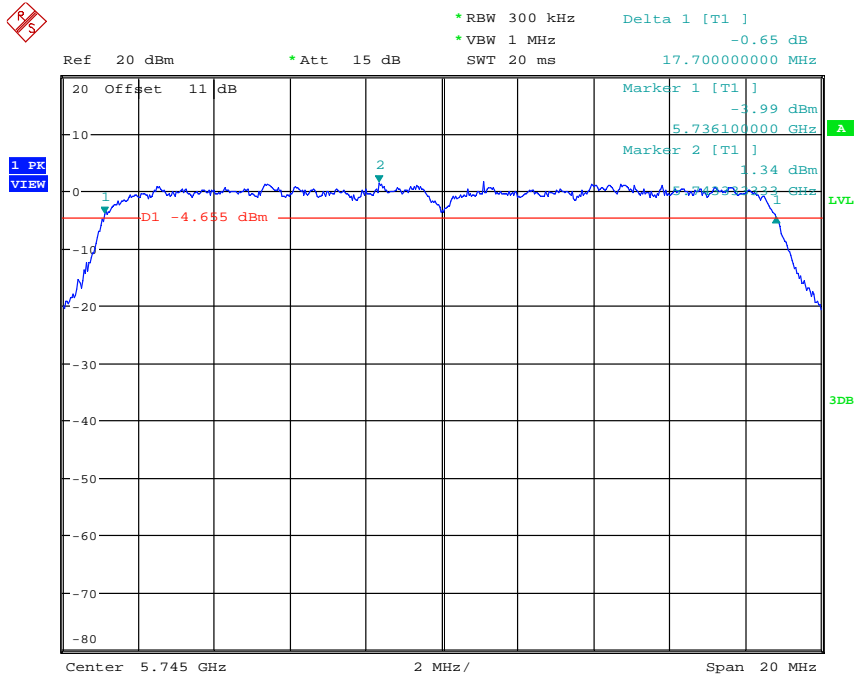


6DB BANDWIDTH 802.11A CH165
Date: 22.MAY.2013 09:57:52

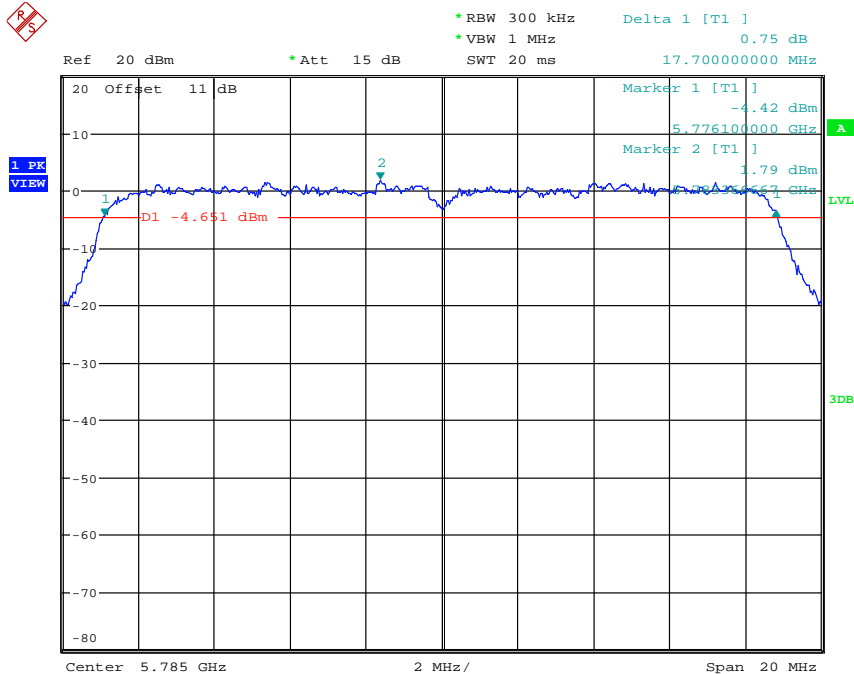


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



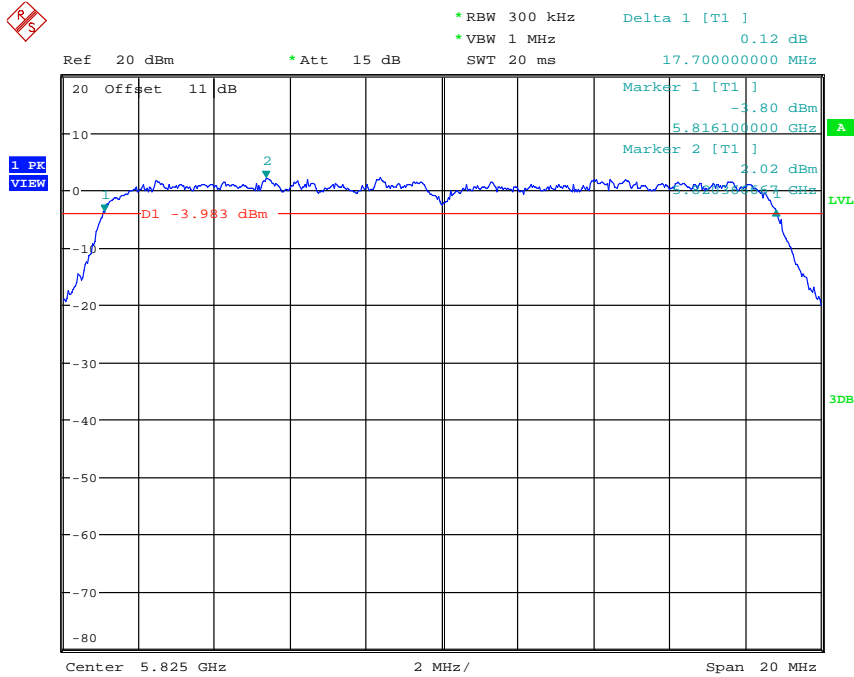
6DB BANDWIDTH 802.11N 20MHZ CH149
Date: 22.MAY.2013 10:01:21



6DB BANDWIDTH 802.11N 20MHZ CH157
Date: 22.MAY.2013 10:02:04

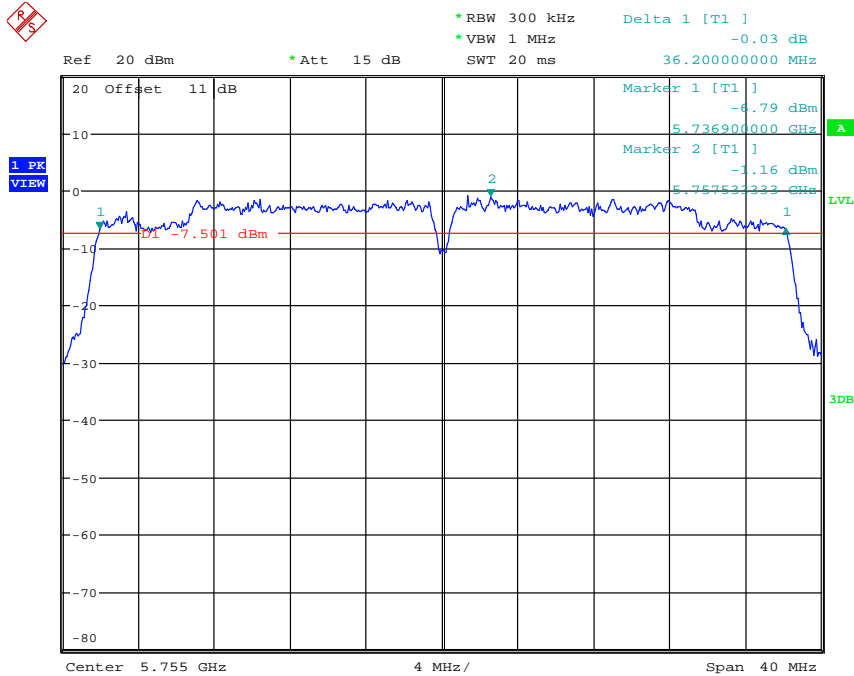


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 20MHZ CH165
Date: 22.MAY.2013 10:02:59

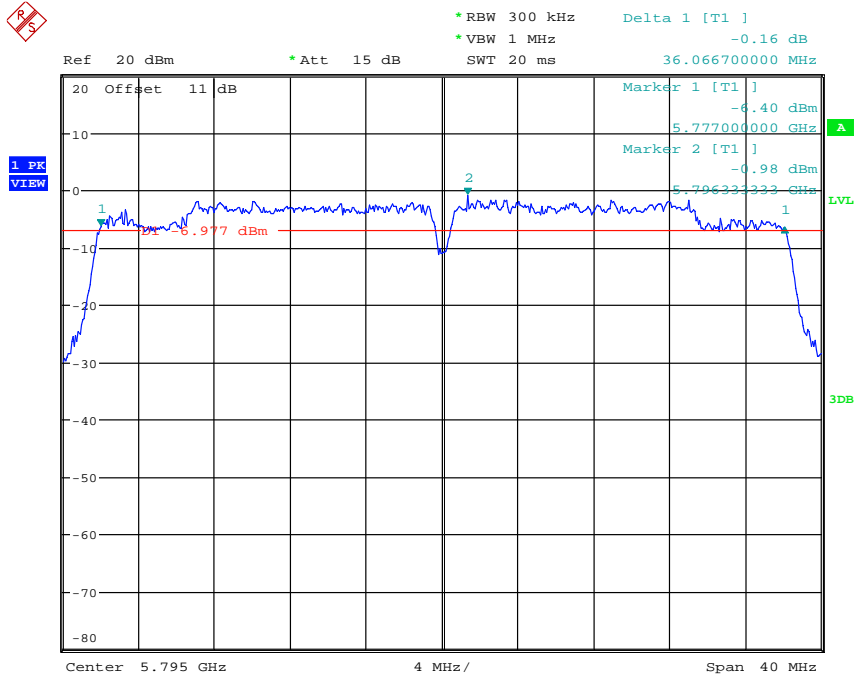
Mode C



6DB BANDWIDTH 802.11N 40MHZ CH151
Date: 22.MAY.2013 10:04:33

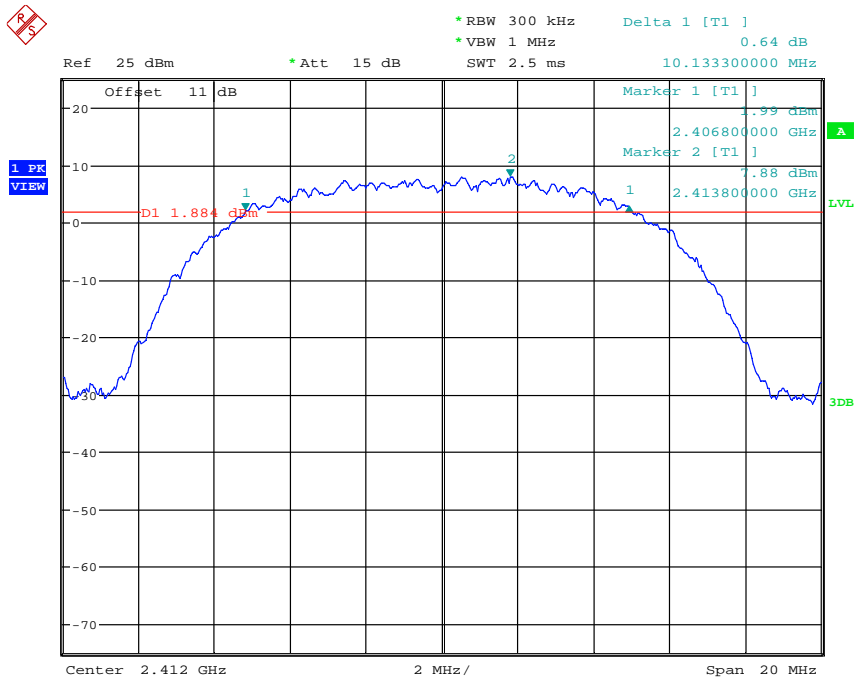


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 40MHZ CH159
Date: 22.MAY.2013 10:05:13

Mode D

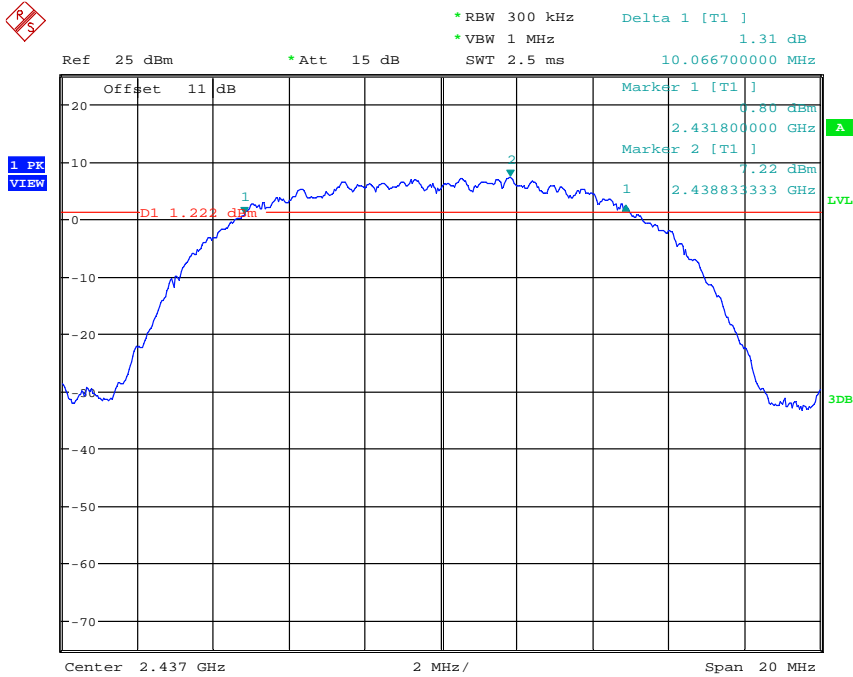


6DB BANDWIDTH 802.11B CH01
Date: 22.MAY.2013 07:09:50

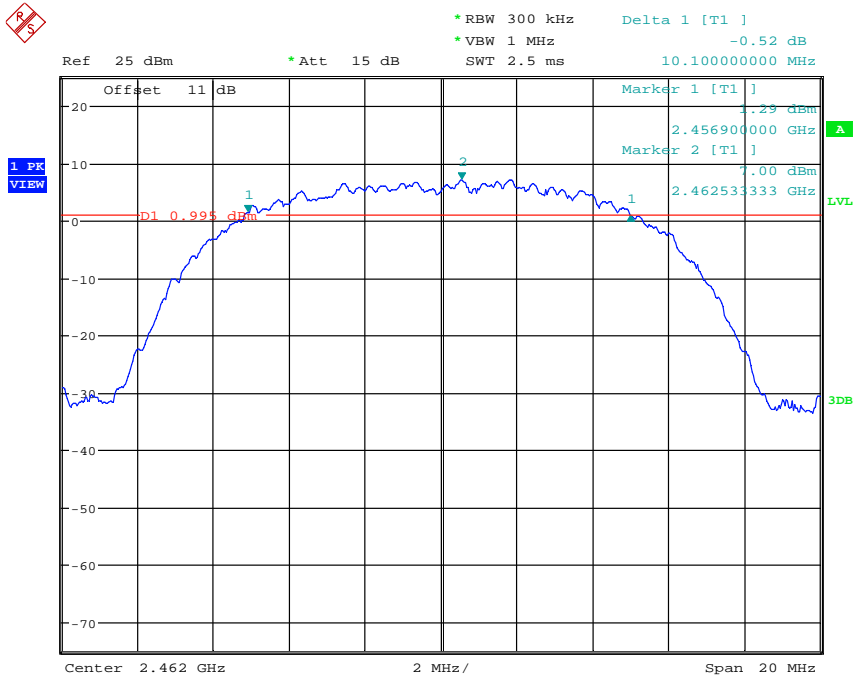


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11B CH06
Date: 22.MAY.2013 07:10:57



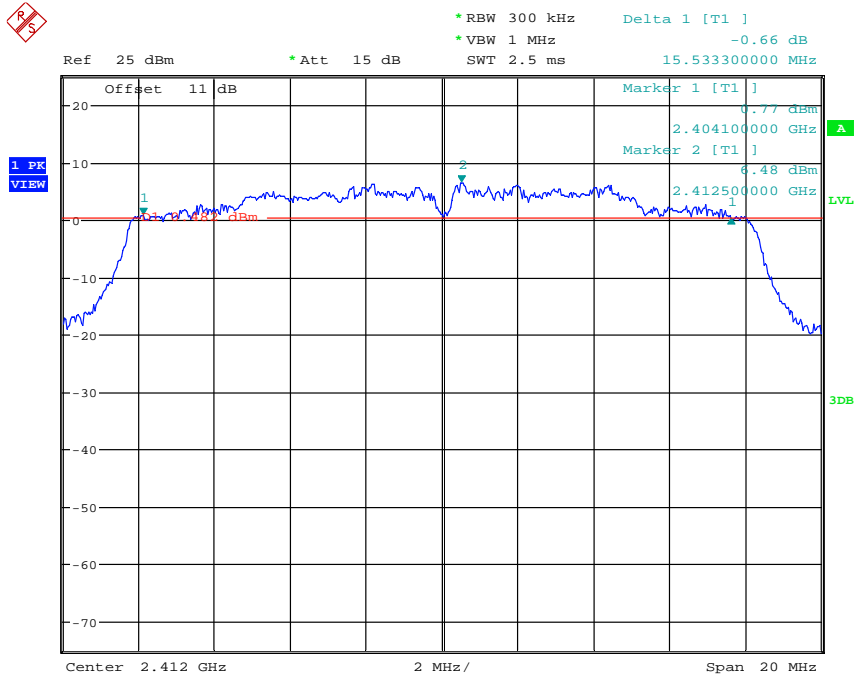
6DB BANDWIDTH 802.11B CH11
Date: 22.MAY.2013 07:13:07



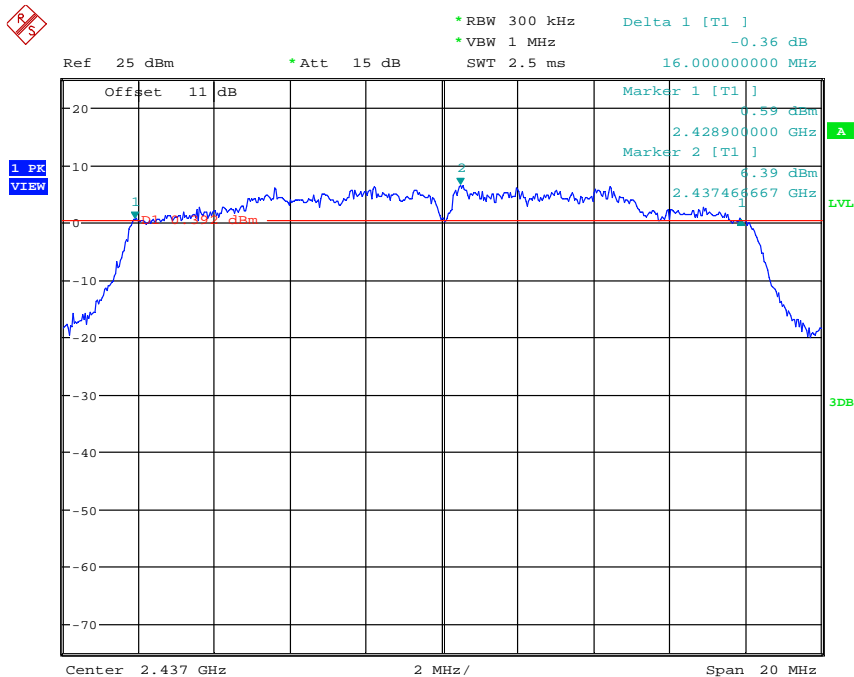
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode E



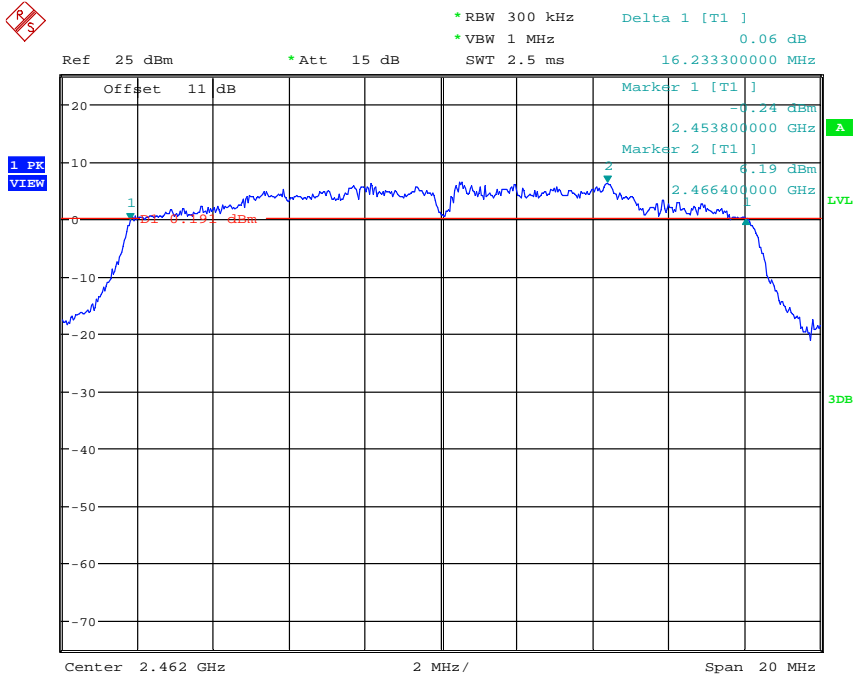
6DB BANDWIDTH 802.11G CH01
Date: 22.MAY.2013 07:14:22



6DB BANDWIDTH 802.11G CH06
Date: 22.MAY.2013 07:15:03

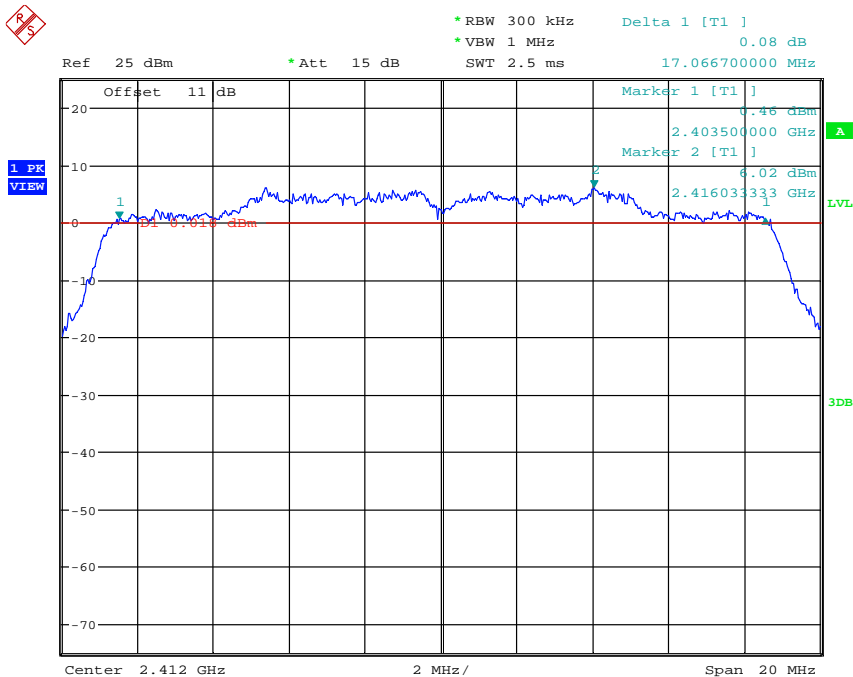


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11G CH11
Date: 22.MAY.2013 07:16:05

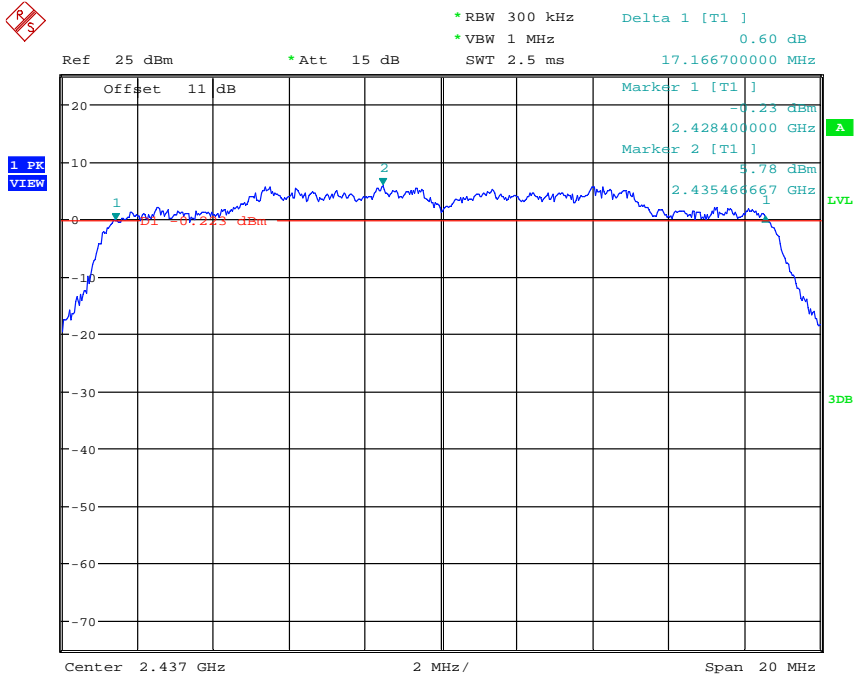
Mode F



6DB BANDWIDTH 802.11N 20MHZ CH01
Date: 22.MAY.2013 07:23:06

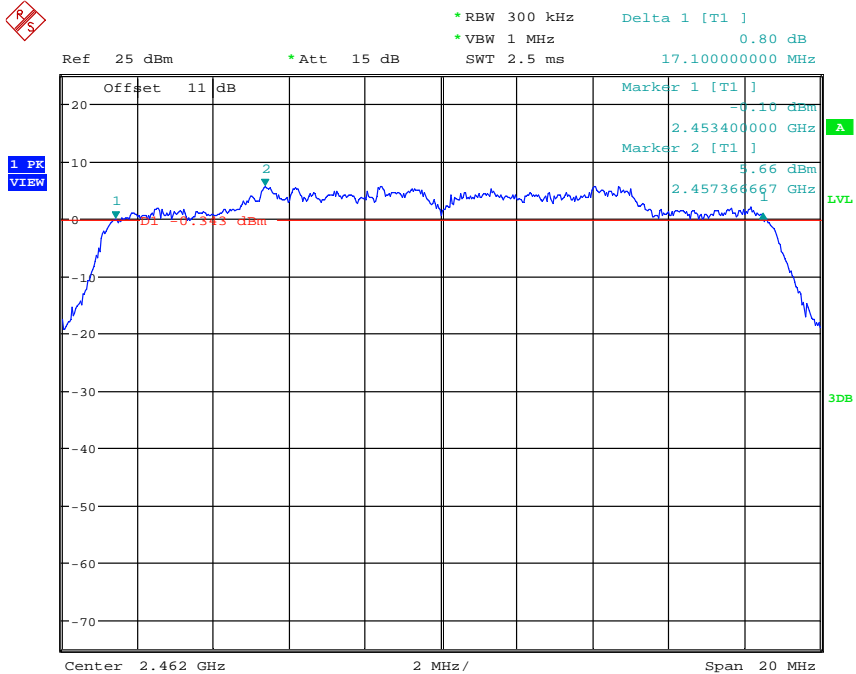


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 20MHZ CH06

Date: 22.MAY.2013 07:23:46



6DB BANDWIDTH 802.11N 20MHZ CH11

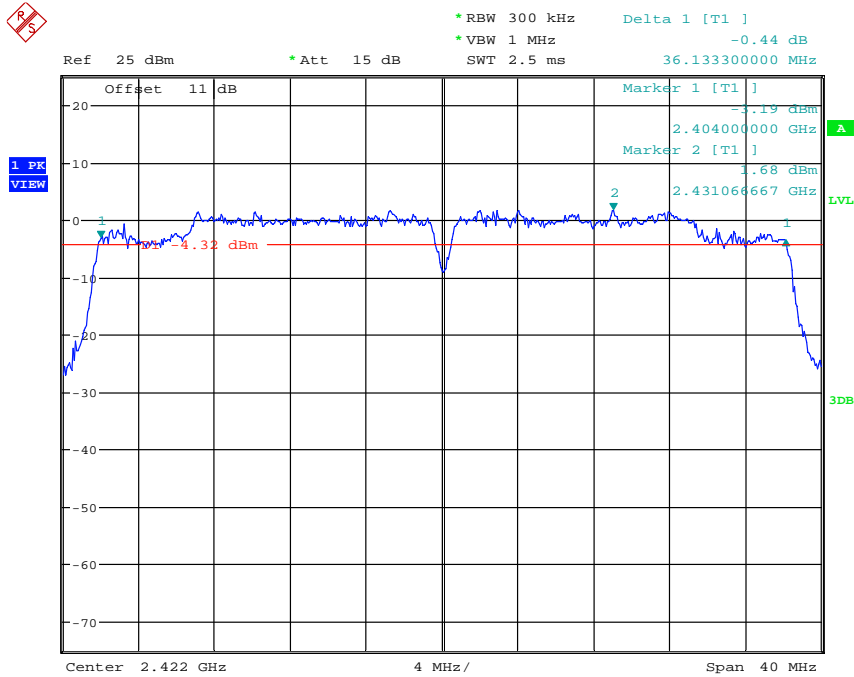
Date: 22.MAY.2013 07:36:09



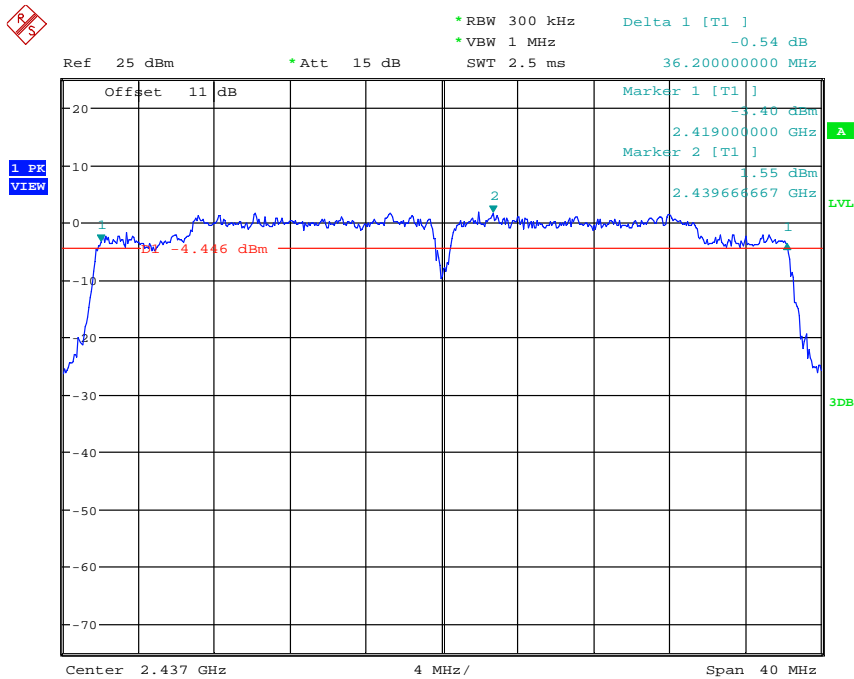
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



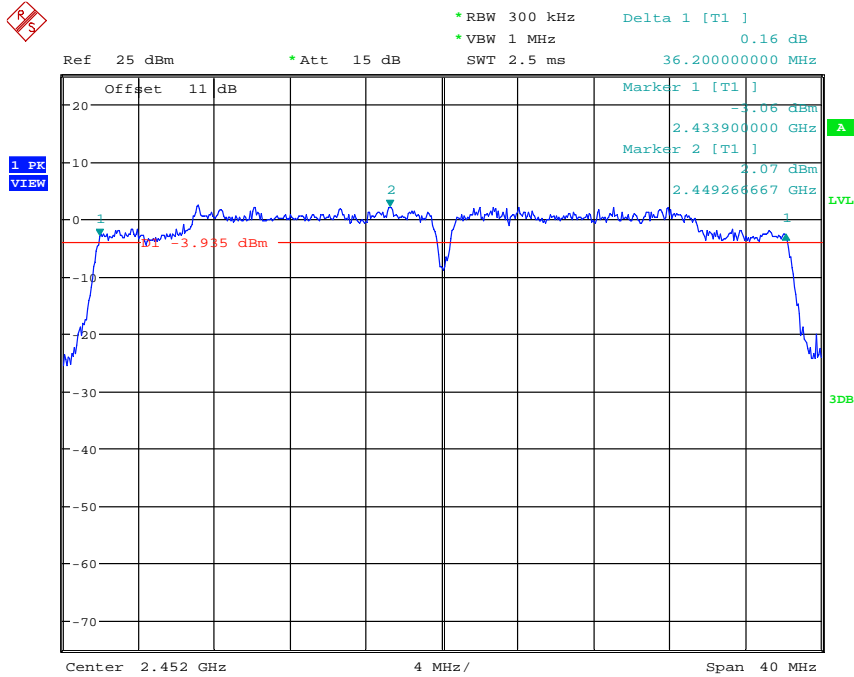
6DB BANDWIDTH 802.11N 40MHZ CH01
Date: 22.MAY.2013 07:37:02



6DB BANDWIDTH 802.11N 40MHZ CH04
Date: 22.MAY.2013 07:39:13

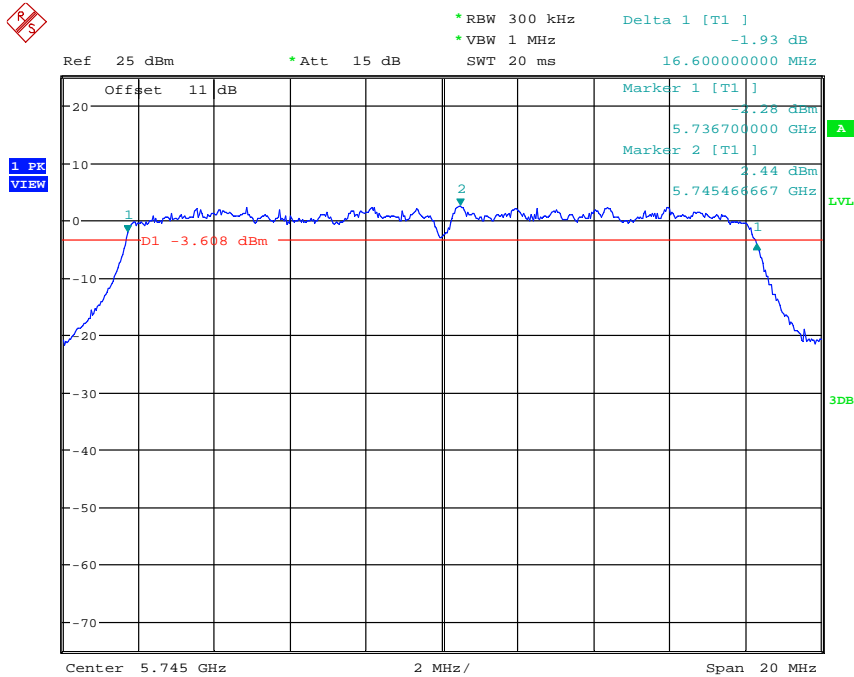


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 40MHZ CH07
Date: 22.MAY.2013 07:38:20

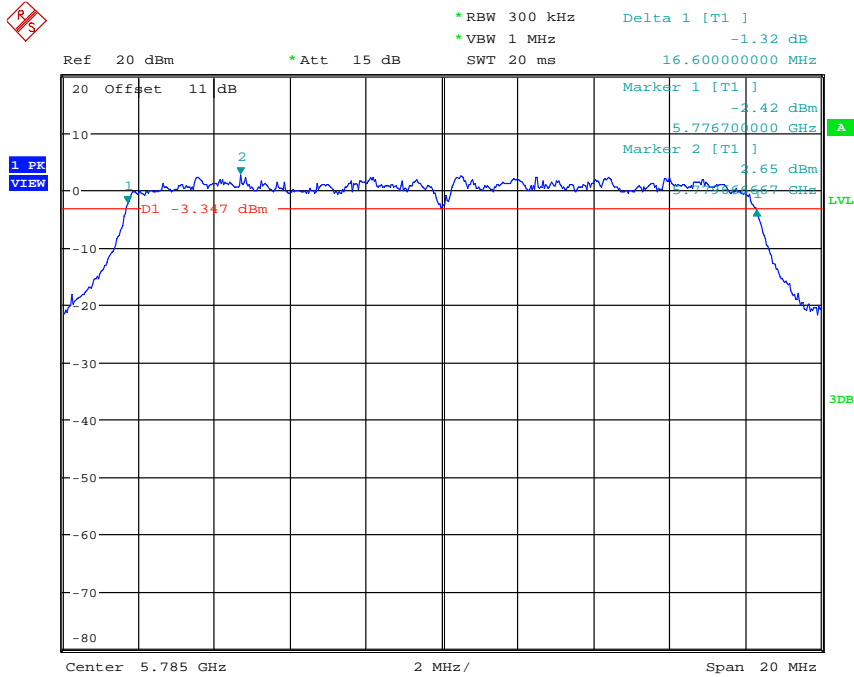
ANT B Mode A



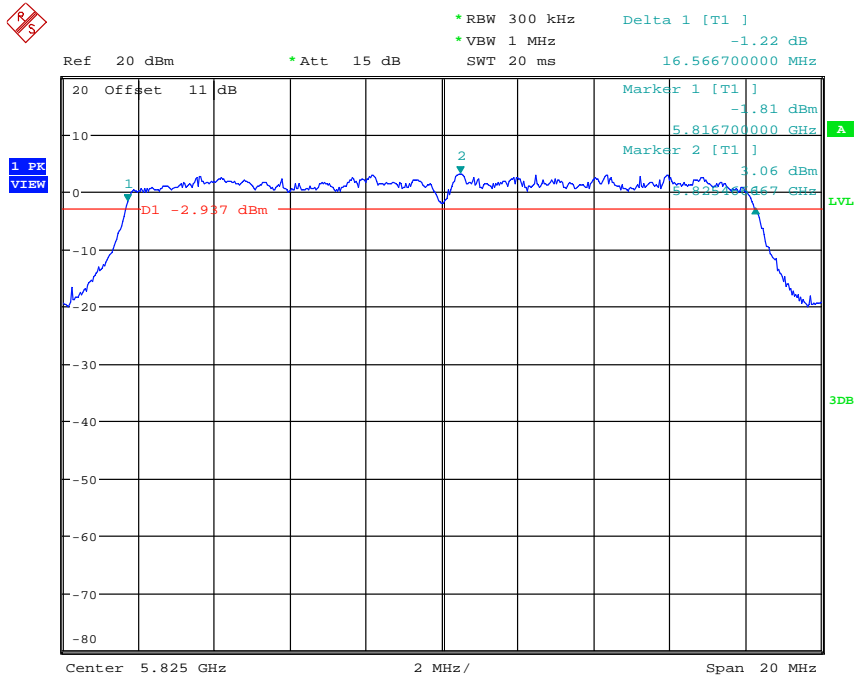
6DB BANDWIDTH 802.11A CH149
Date: 22.MAY.2013 08:20:13



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11A CH157
Date: 22.MAY.2013 08:20:55

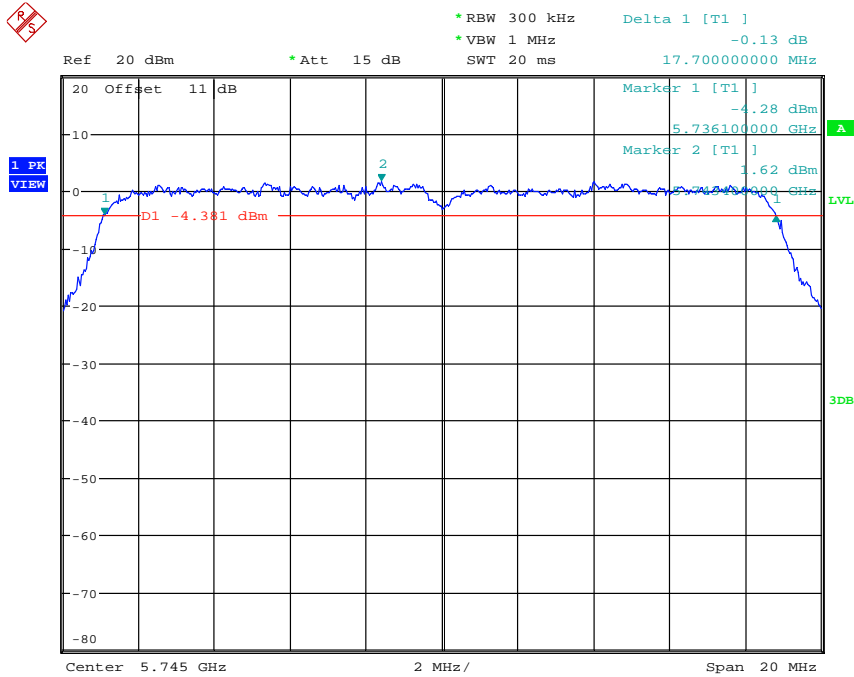


6DB BANDWIDTH 802.11A CH165
Date: 22.MAY.2013 08:21:31

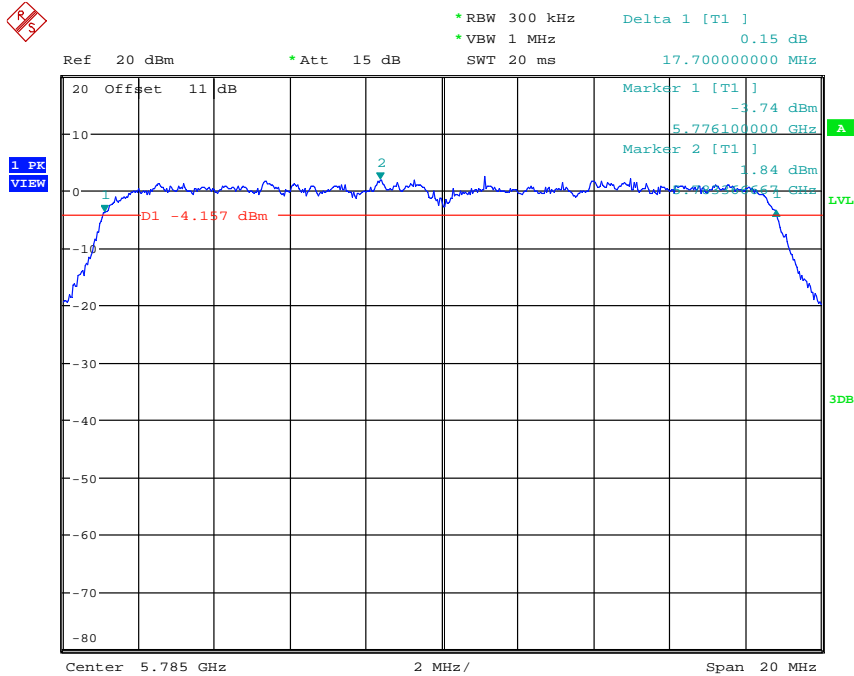


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



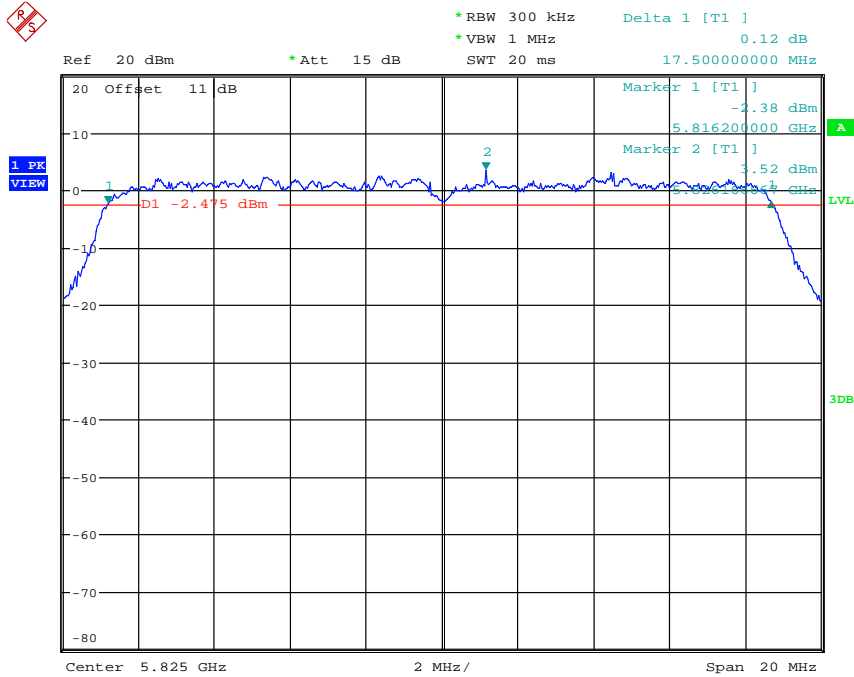
6DB BANDWIDTH 802.11N 20MHZ CH149
Date: 22.MAY.2013 08:22:18



6DB BANDWIDTH 802.11N 20MHZ CH157
Date: 22.MAY.2013 08:22:57

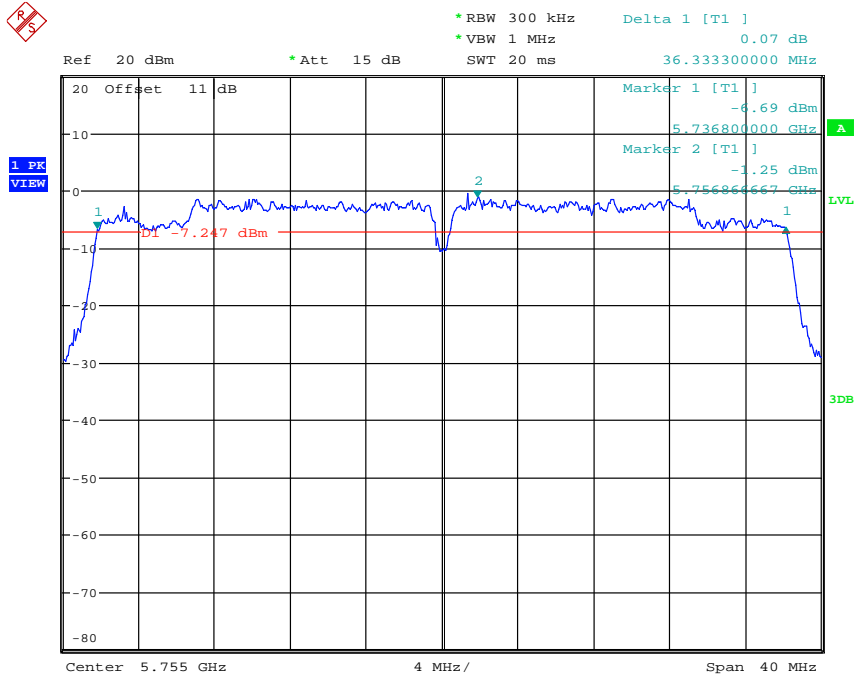


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 20MHZ CH165
Date: 22.MAY.2013 08:23:33

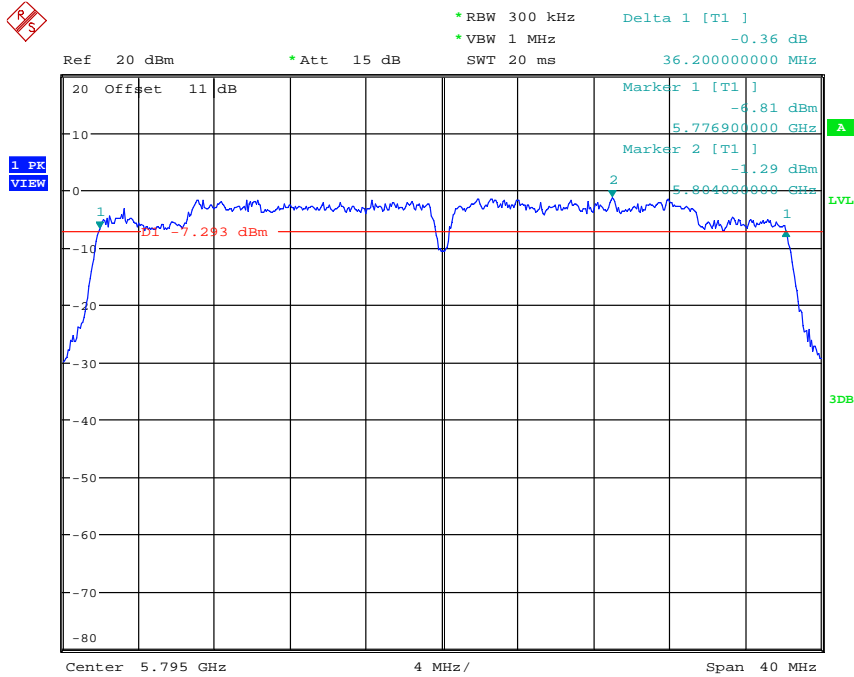
Mode C



6DB BANDWIDTH 802.11N 40MHZ CH151
Date: 22.MAY.2013 08:24:36

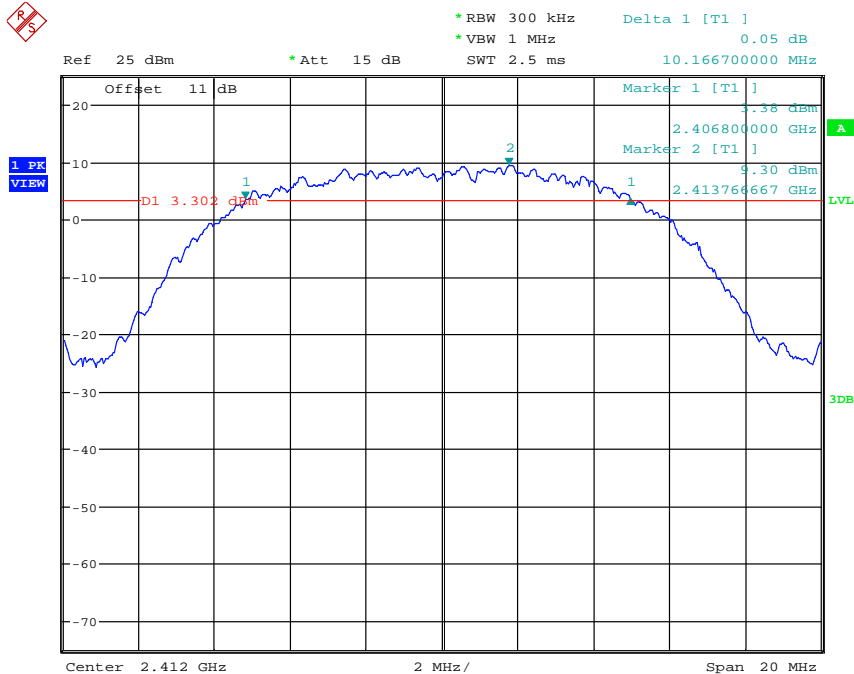


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 40MHZ CH159
Date: 22.MAY.2013 08:25:20

Mode D

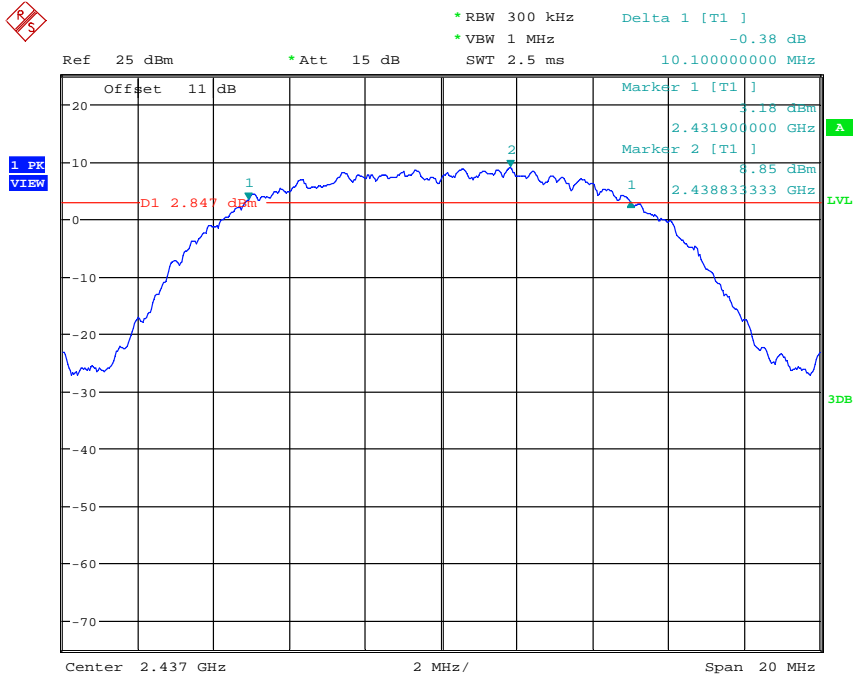


6DB BANDWIDTH 802.11B CH01
Date: 22.MAY.2013 07:48:23

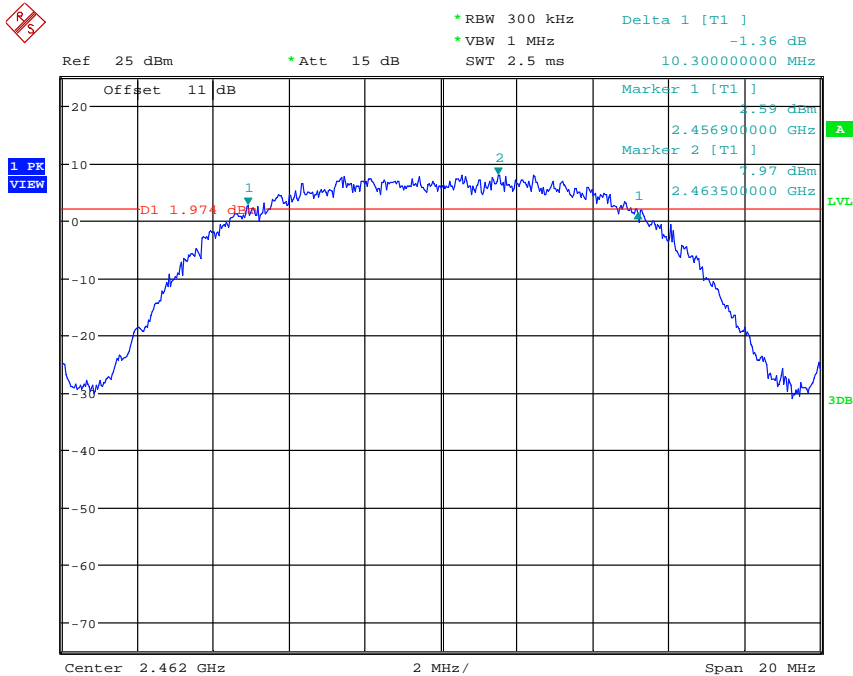


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11B CH06
Date: 22.MAY.2013 07:53:57

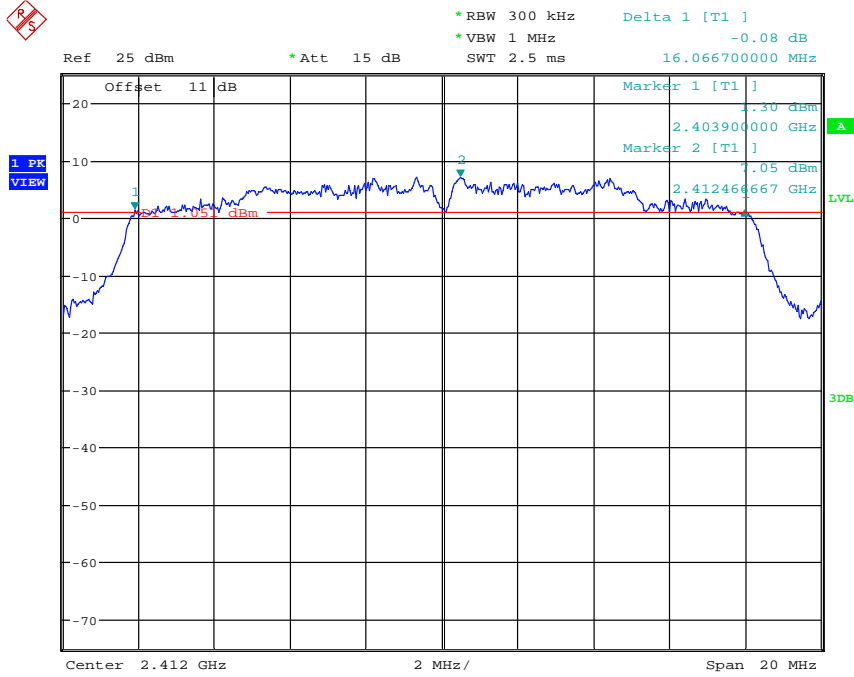


6DB BANDWIDTH 802.11B CH11
Date: 22.MAY.2013 07:56:08

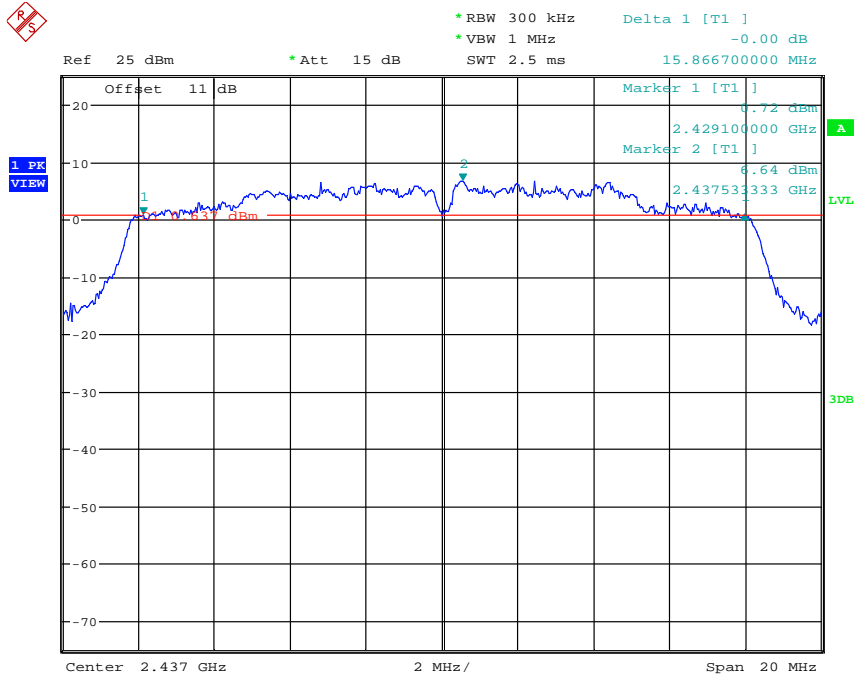


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode E



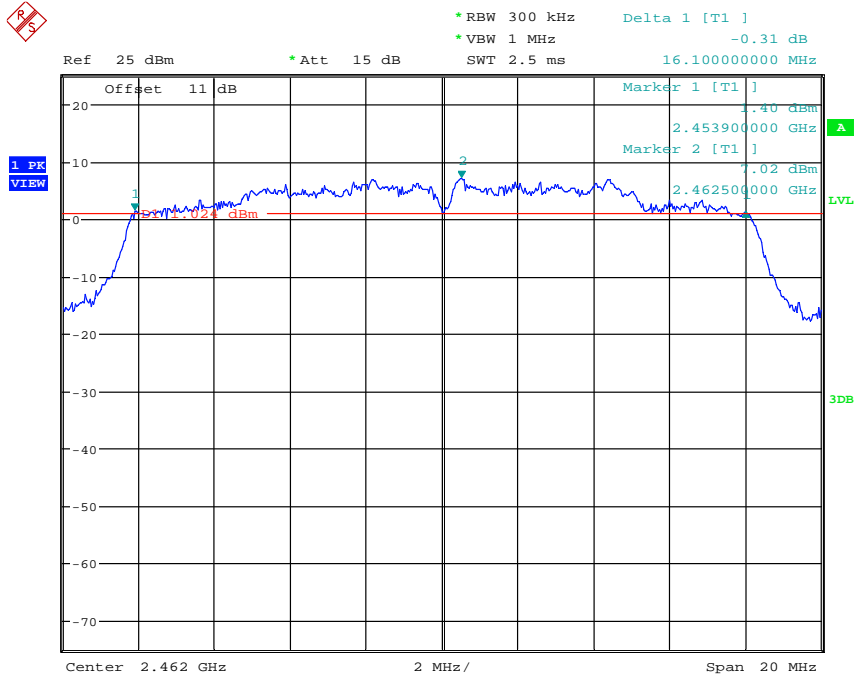
6DB BANDWIDTH 802.11G CH01
Date: 22.MAY.2013 08:00:44



6DB BANDWIDTH 802.11G CH06
Date: 22.MAY.2013 08:05:03

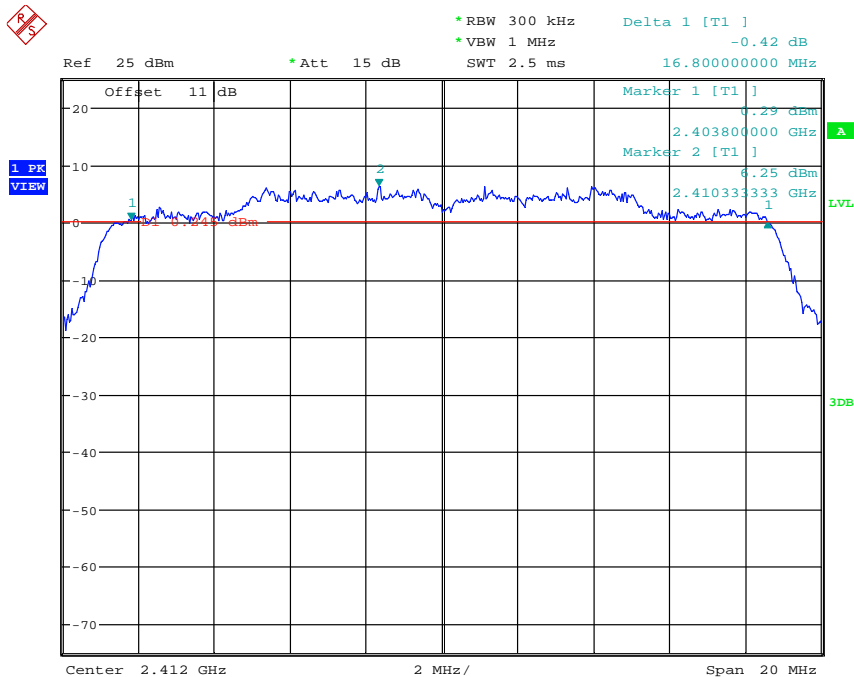


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11G CH11
Date: 22.MAY.2013 08:05:53

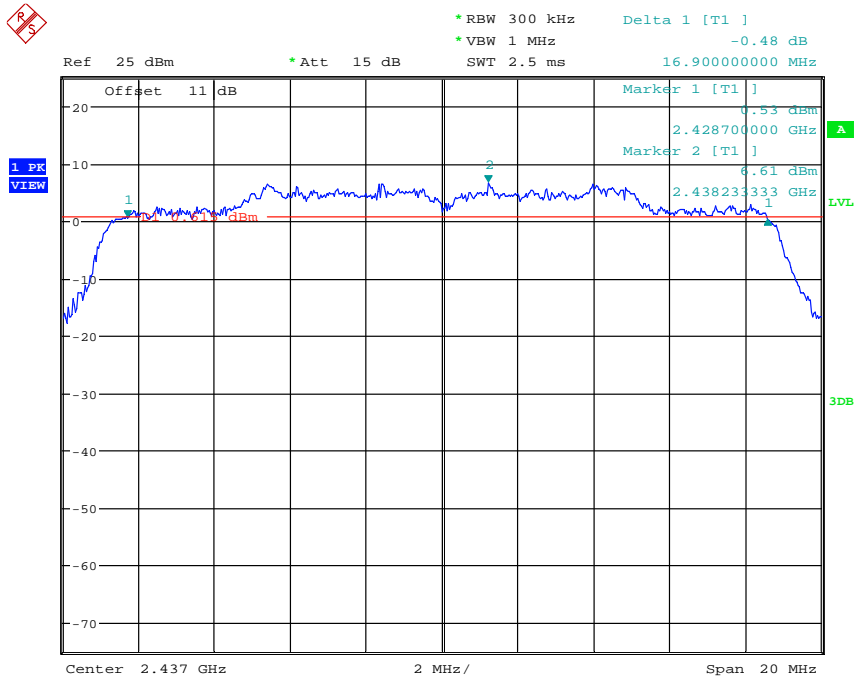
Mode F



6DB BANDWIDTH 802.11N 20MHZ CH01
Date: 22.MAY.2013 08:06:45

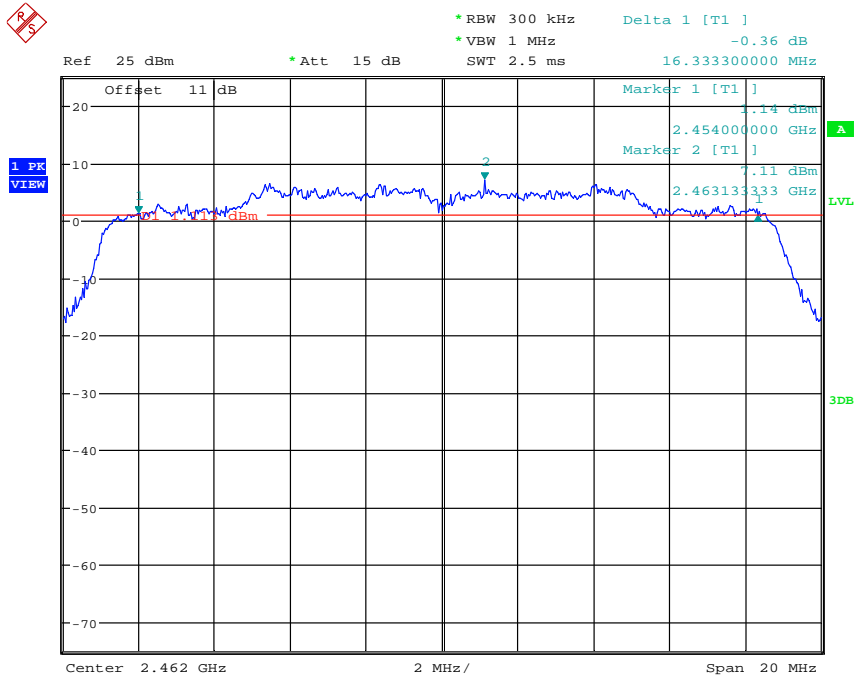


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 20MHZ CH06

Date: 22.MAY.2013 08:07:34



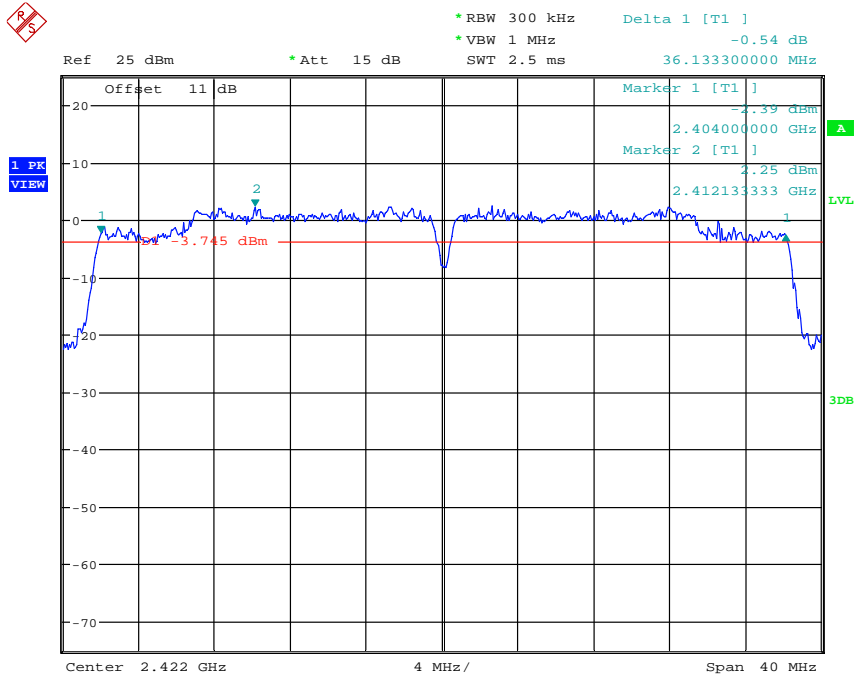
6DB BANDWIDTH 802.11N 20MHZ CH11

Date: 22.MAY.2013 08:08:13

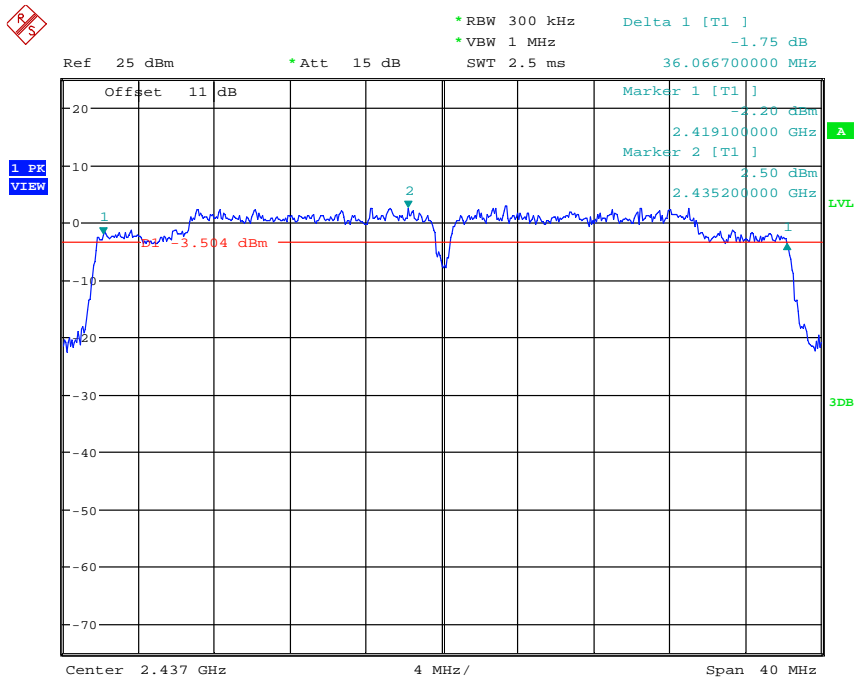


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



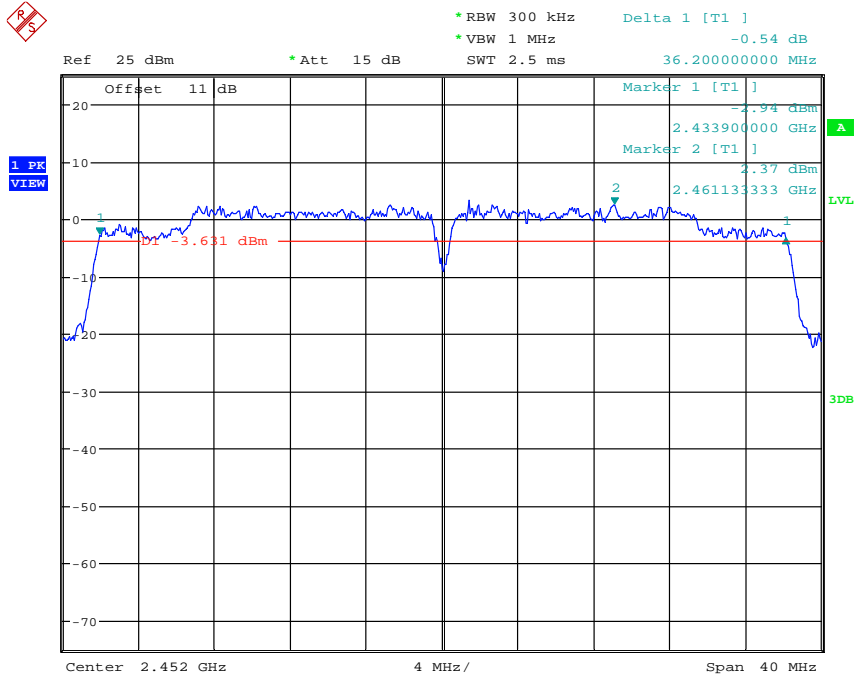
6DB BANDWIDTH 802.11N 40MHZ CH01
Date: 22.MAY.2013 08:13:44



6DB BANDWIDTH 802.11N 40MHZ CH04
Date: 22.MAY.2013 08:14:28

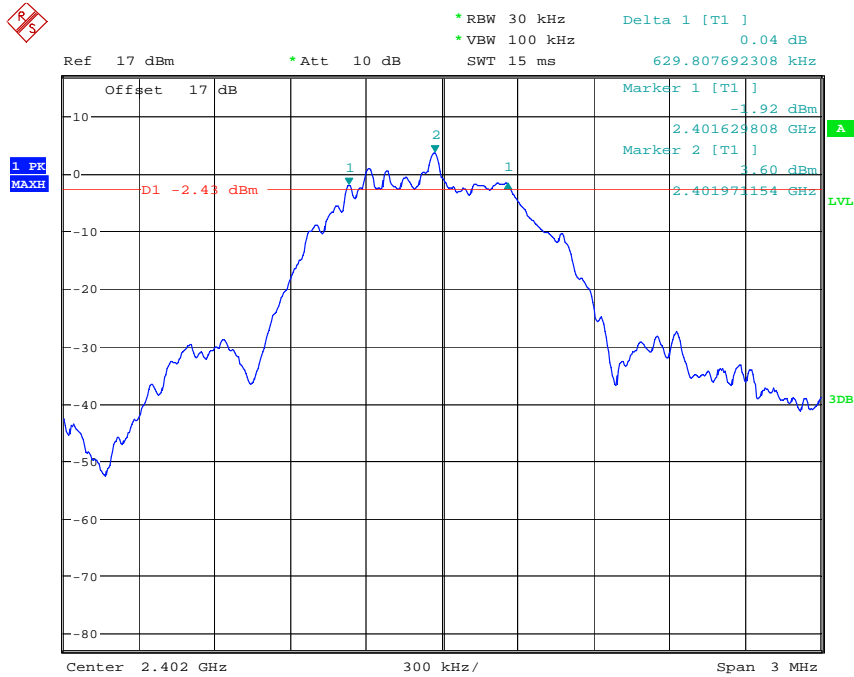


Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10



6DB BANDWIDTH 802.11N 40MHZ CH07
 Date: 22.MAY.2013 08:15:33

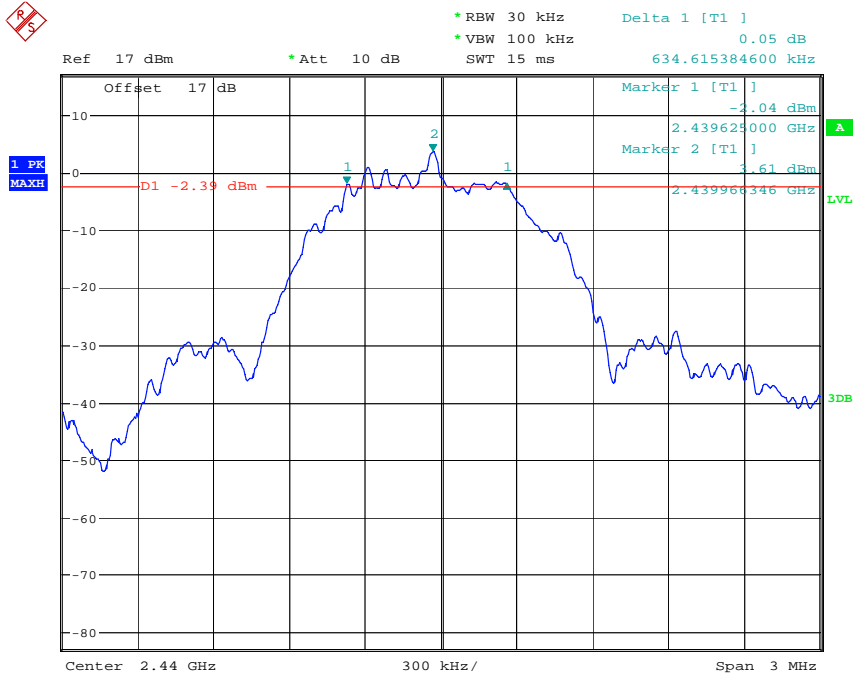
BT 4.0 Mode J



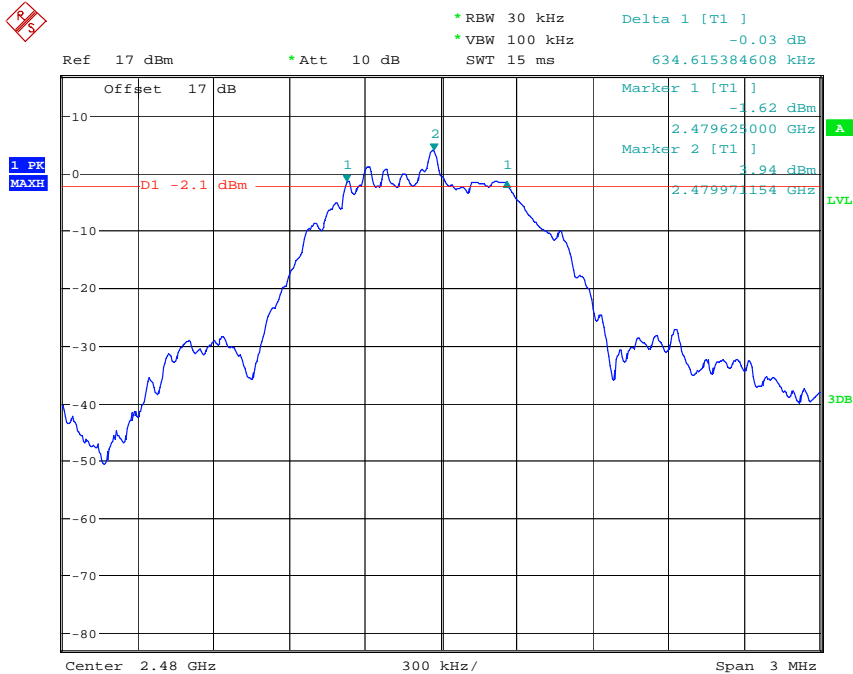
6DB BANDWIDTH CH0
 Date: 29.MAY.2013 14:11:30



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



6DB BANDWIDTH CH19
Date: 29.MAY.2013 14:13:10



6DB BANDWIDTH CH39
Date: 29.MAY.2013 14:13:53



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



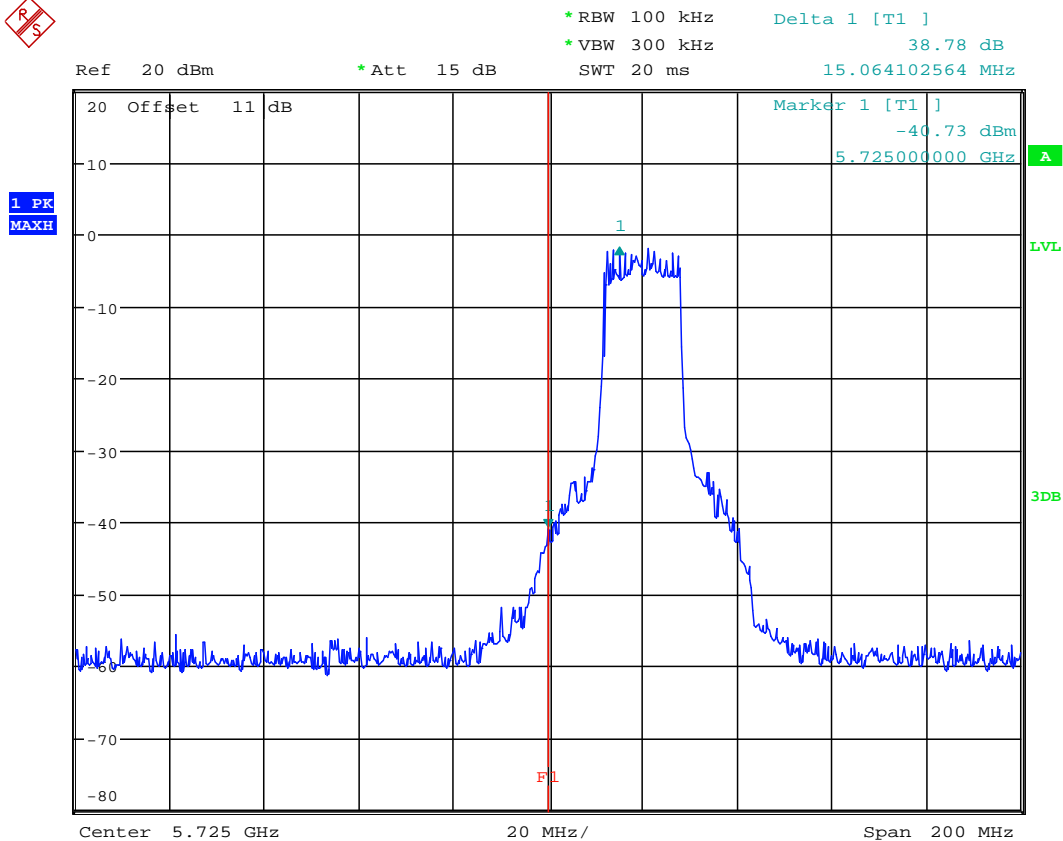
Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.10 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

ANT A
Mode A

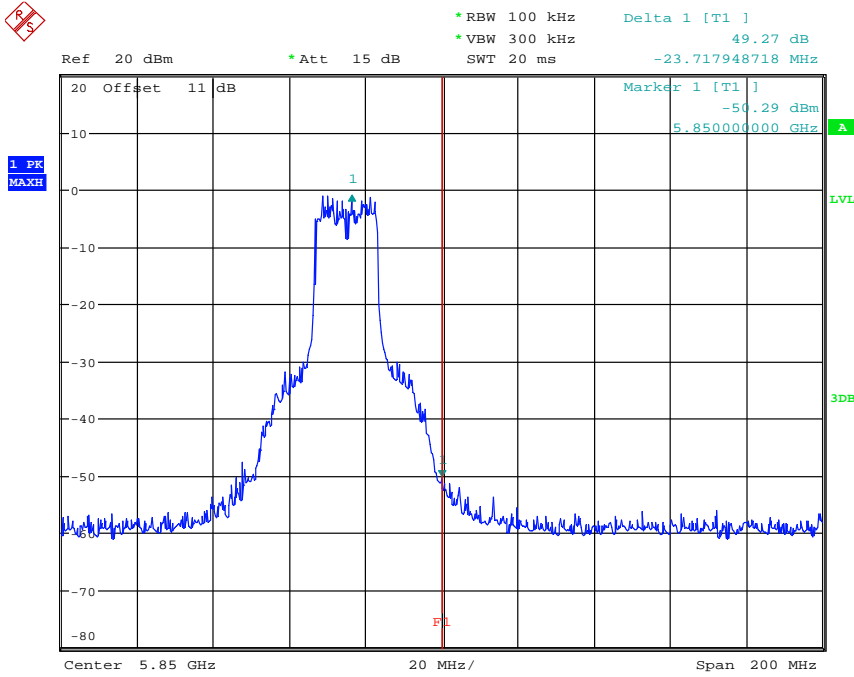


BANDEDGE 802.11A CH149

Date: 22.MAY.2013 09:56:48

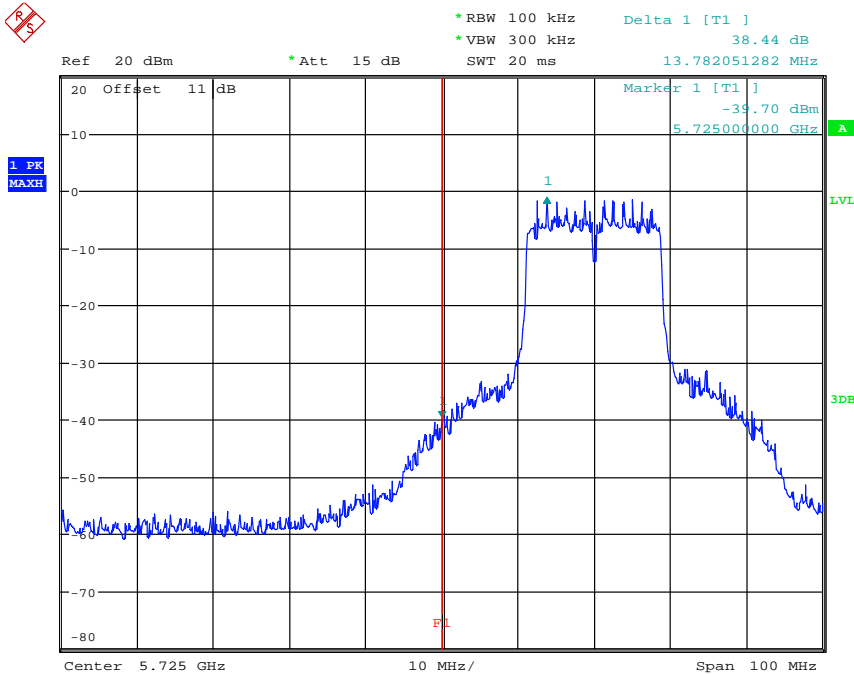


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11A CH165
Date: 22.MAY.2013 09:58:04

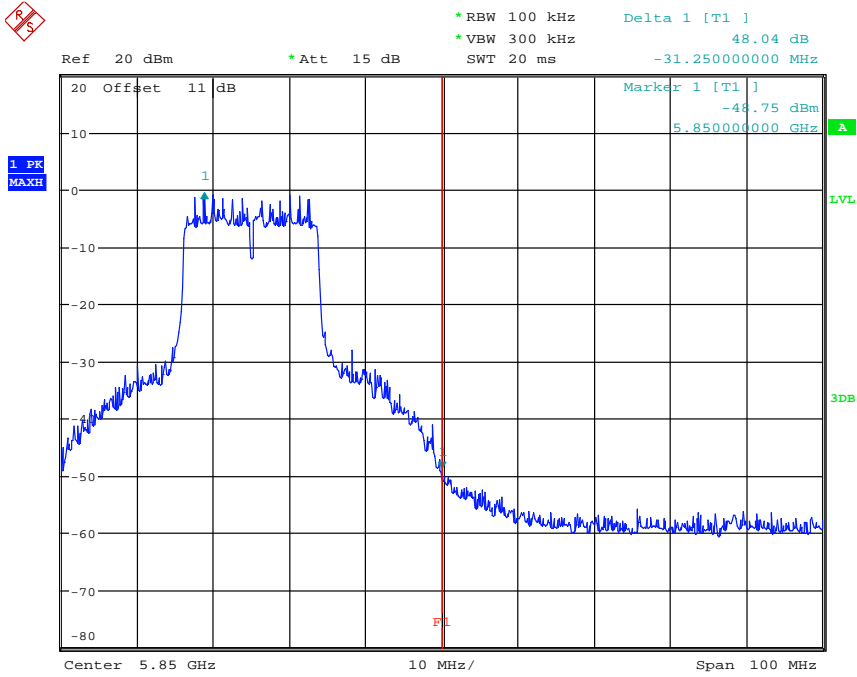
Mode B



BANDEDGE 802.11N 20MHZ CH149
Date: 22.MAY.2013 10:01:34

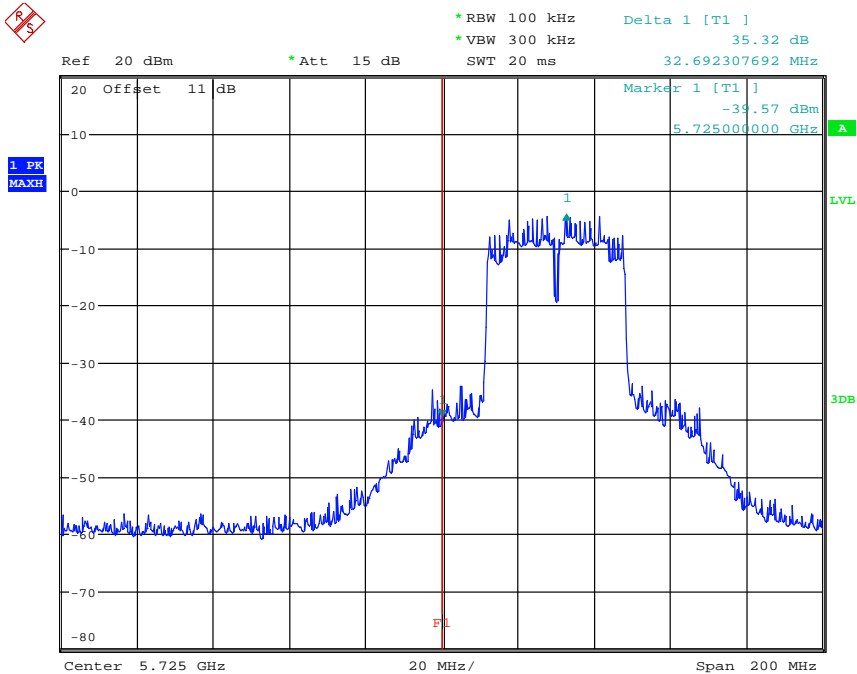


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 20MHZ CH165
Date: 22.MAY.2013 10:03:12

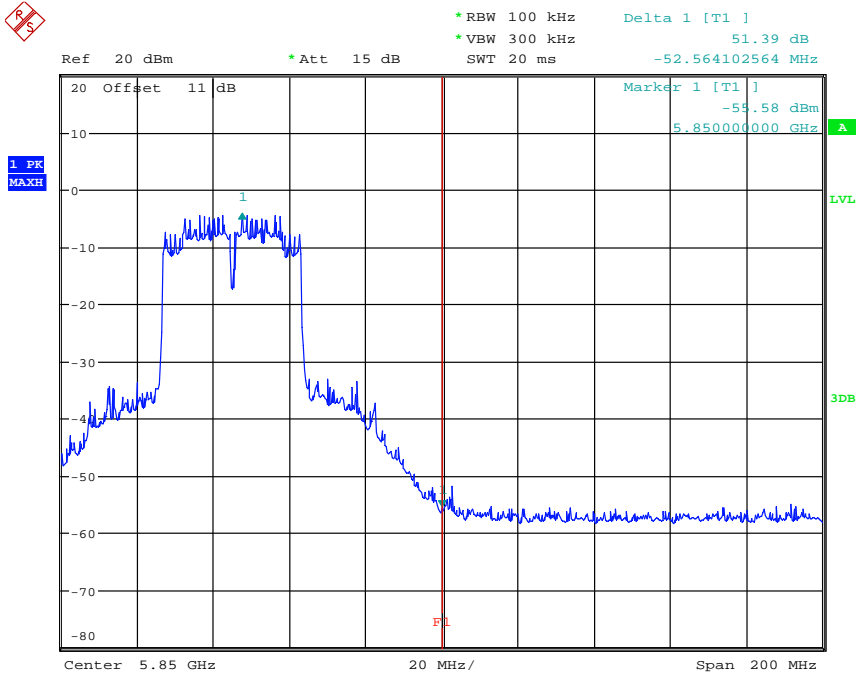
Mode C



BANDEDGE 802.11N 40MHZ CH151
Date: 22.MAY.2013 10:04:45

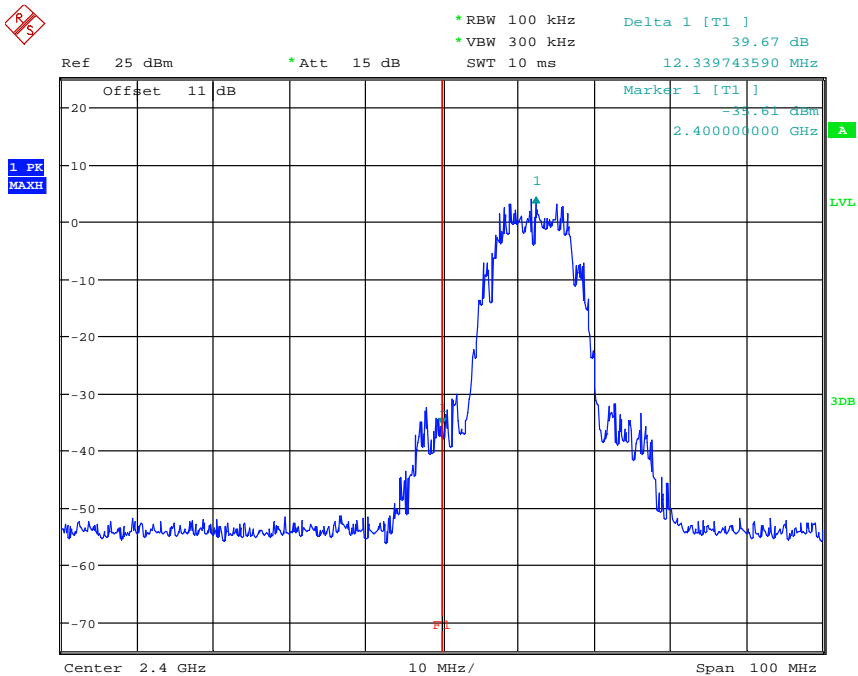


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 40MHZ CH159
Date: 22.MAY.2013 08:31:06

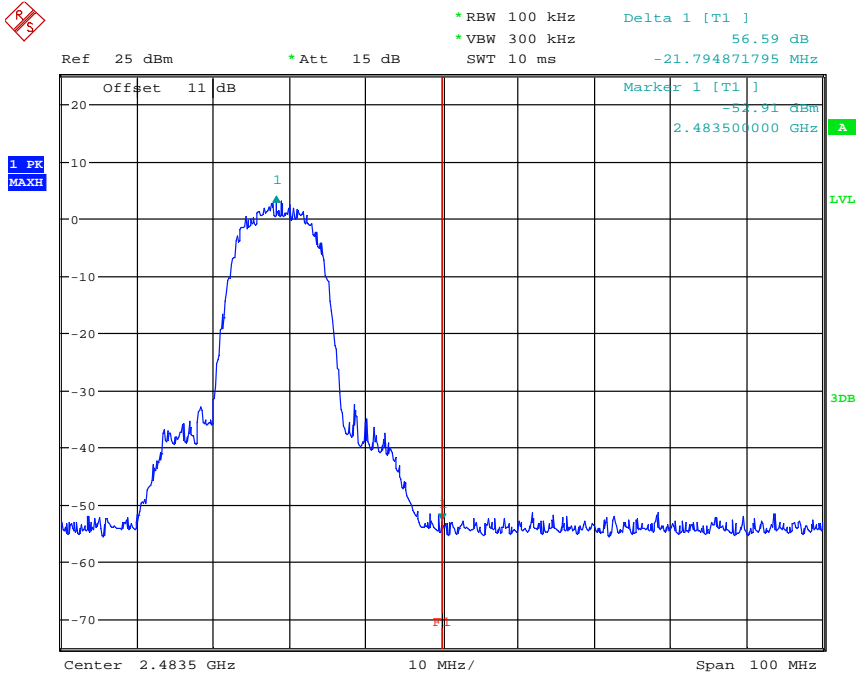
Mode D



BANDEDGE 802.11B CH01
Date: 22.MAY.2013 07:10:02

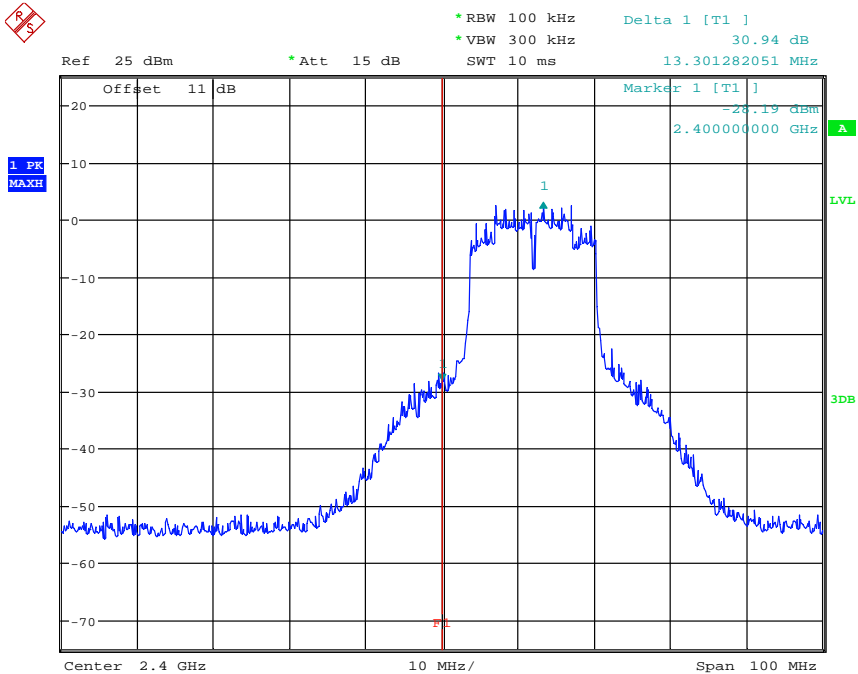


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11B CH11
Date: 22.MAY.2013 07:13:20

Mode E

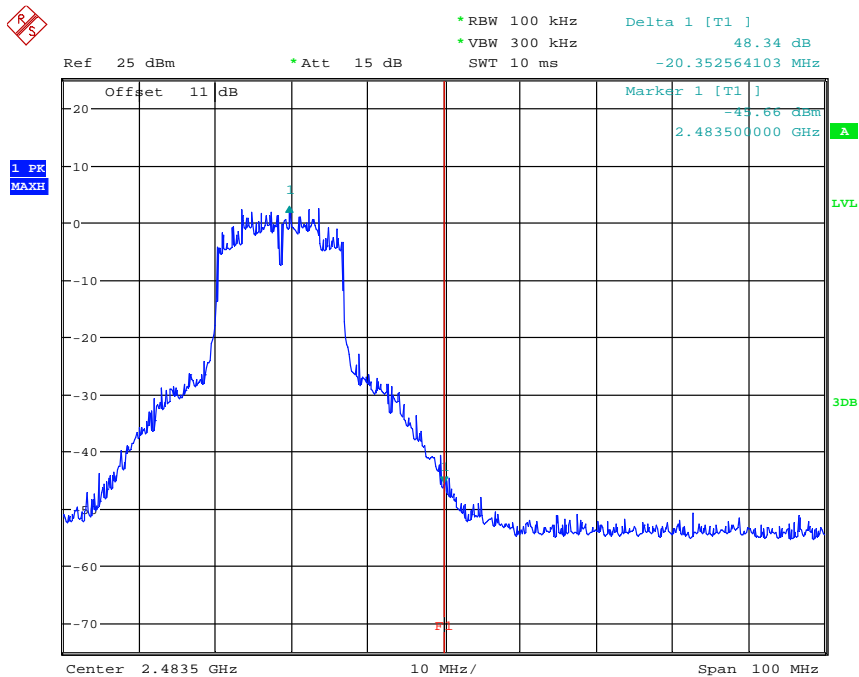


BANDEDGE 802.11G CH01
Date: 22.MAY.2013 07:14:35



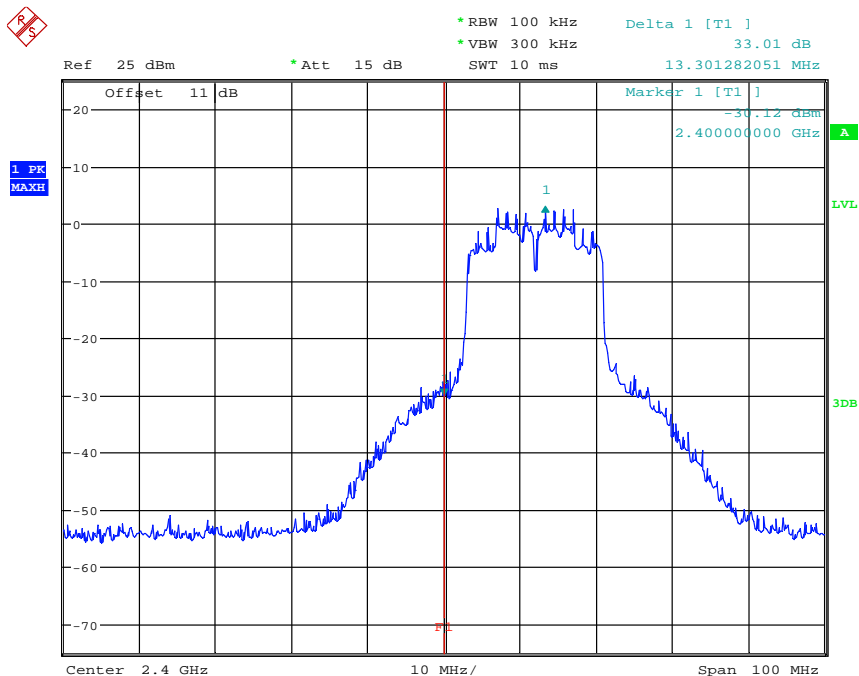
Registration number: W6M21304-13125-C-1

FCC ID: IR5DR10



BANDEDGE 802.11G CH11
Date: 22.MAY.2013 07:16:18

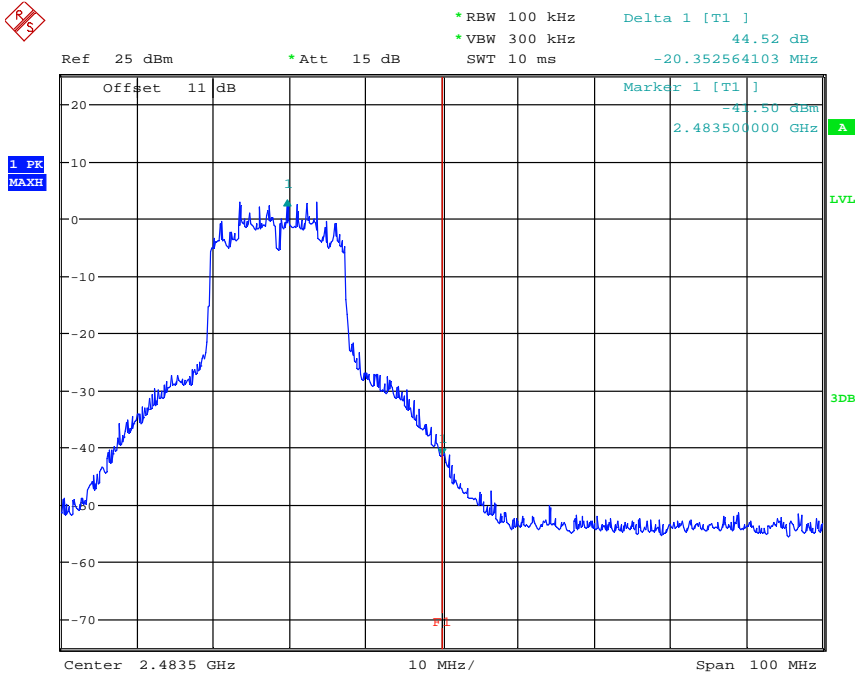
Mode F



BANDEDGE 802.11N 20MHZ CH01
Date: 22.MAY.2013 07:23:19

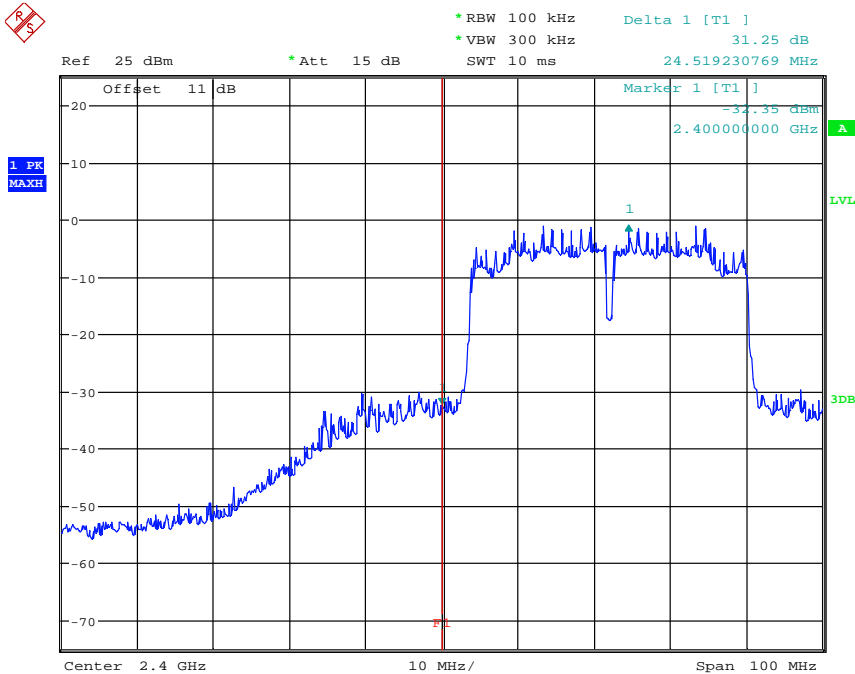


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 20MHZ CH11
Date: 22.MAY.2013 07:36:22

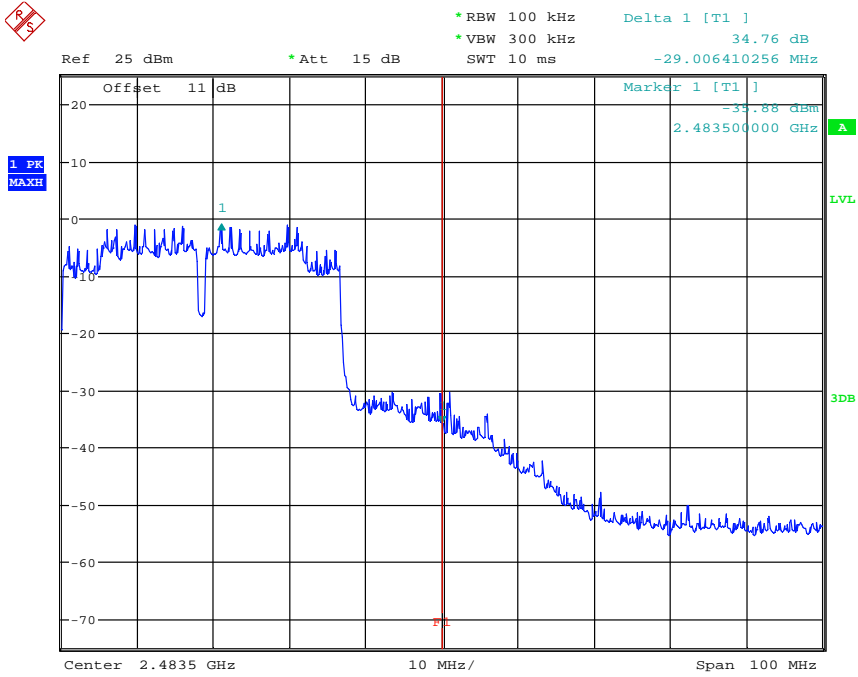
Mode G



BANDEDGE 802.11N 40MHZ CH01
Date: 22.MAY.2013 07:37:15

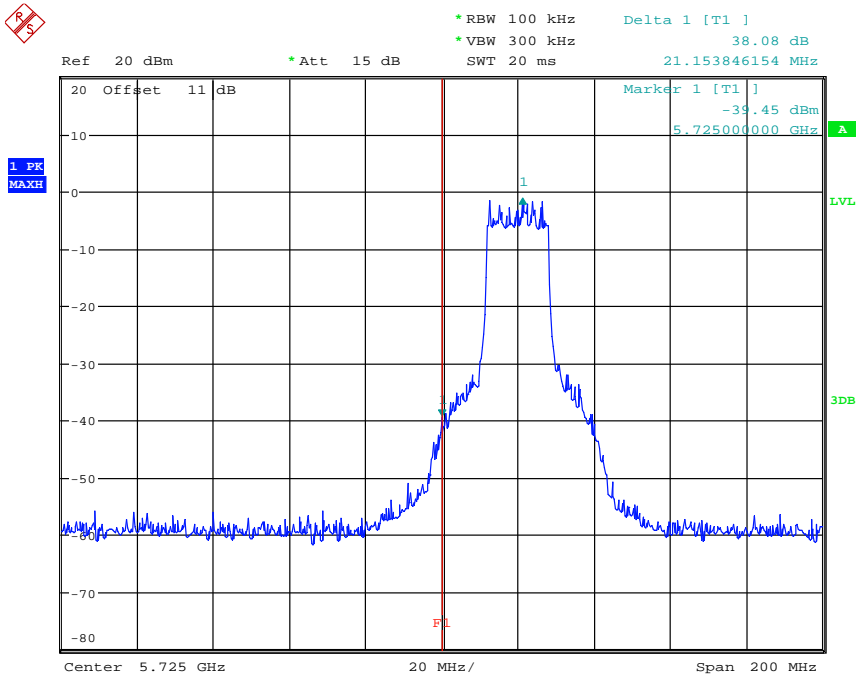


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 40MHZ CH07
Date: 22.MAY.2013 07:38:33

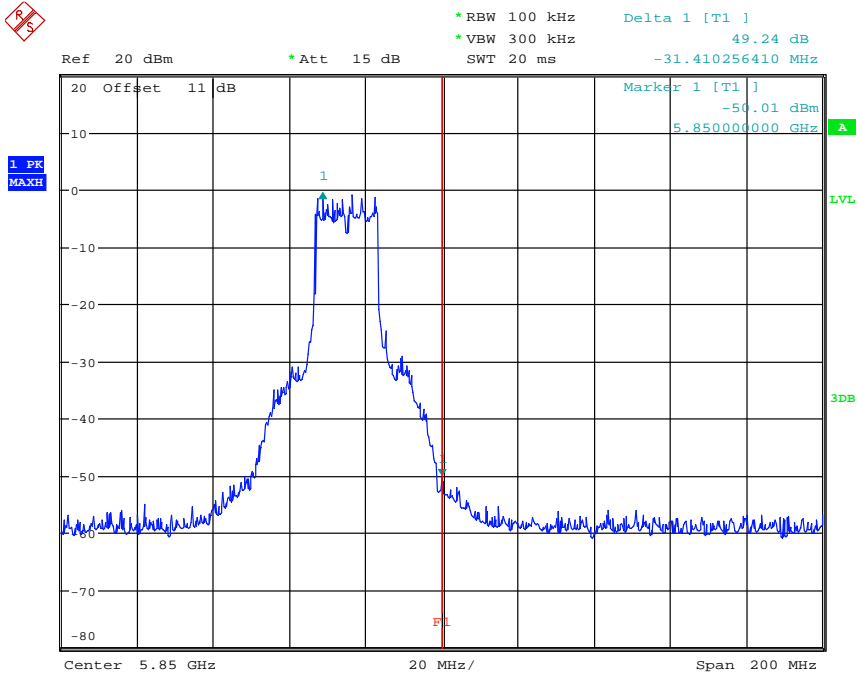
ANT B Mode A



BANDEDGE 802.11A CH149
Date: 22.MAY.2013 08:20:26

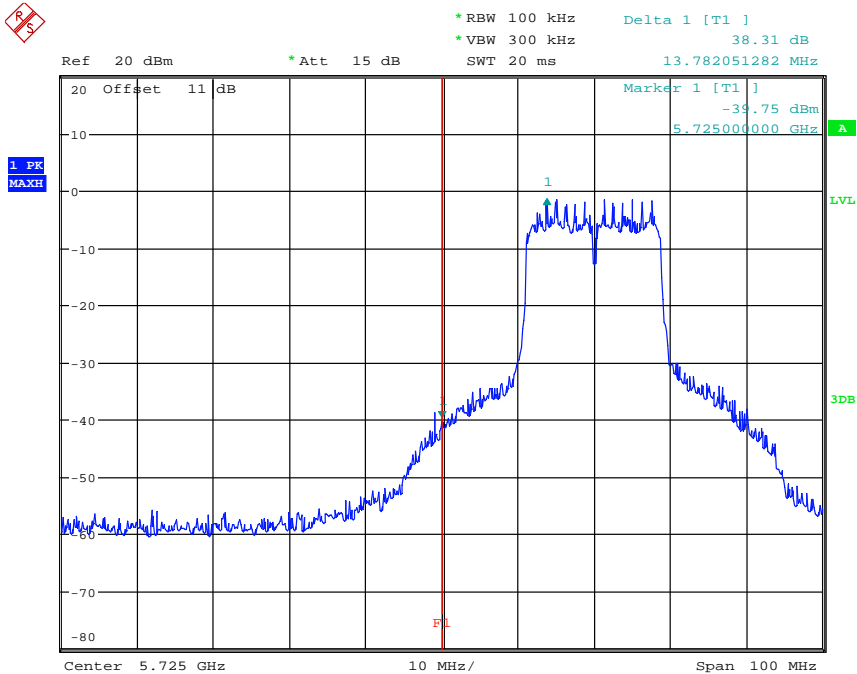


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11A CH165
Date: 22.MAY.2013 08:21:43

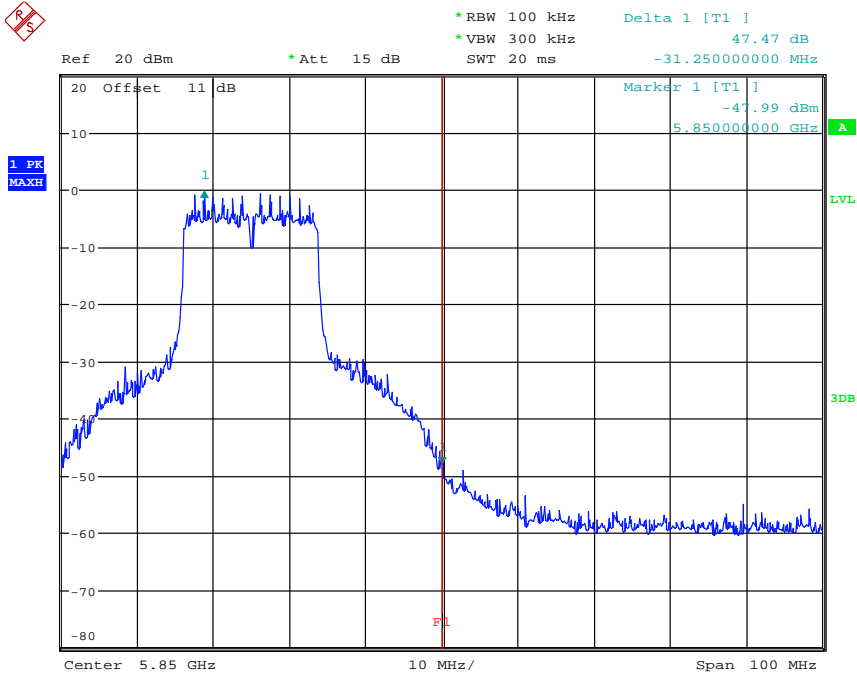
Mode B



BANDEDGE 802.11N 20MHZ CH149
Date: 22.MAY.2013 08:22:30

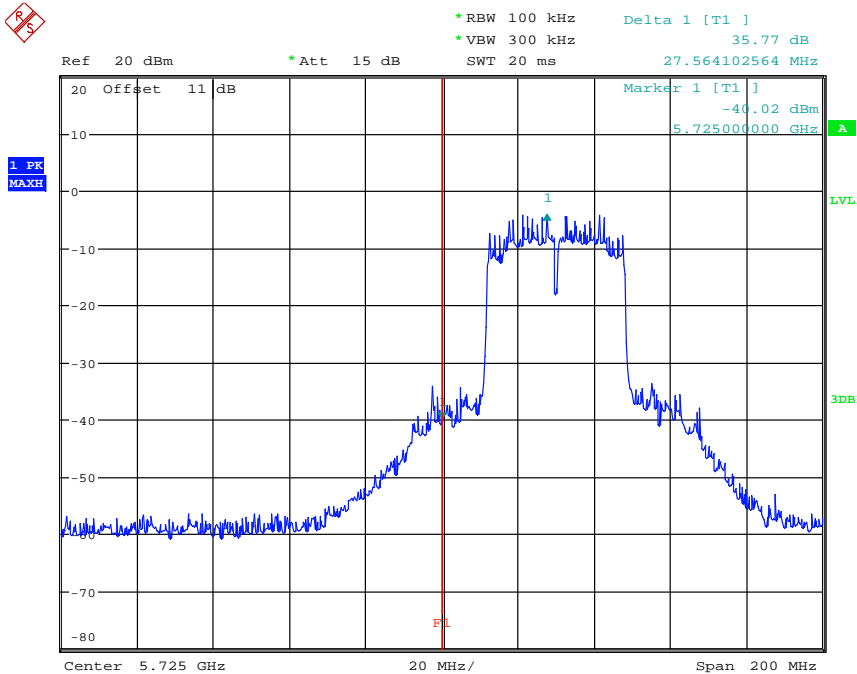


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 20MHZ CH165
Date: 22.MAY.2013 08:23:45

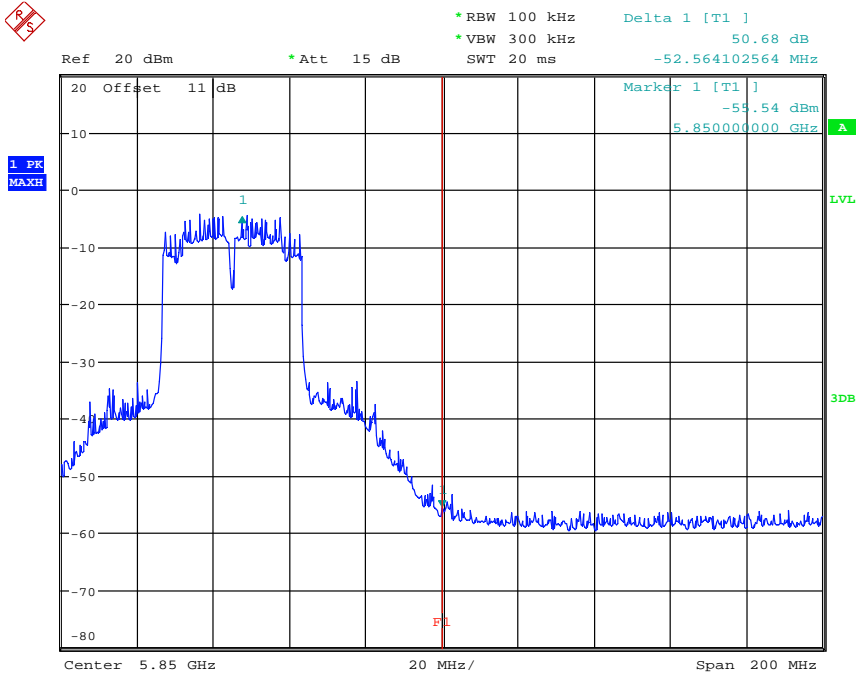
Mode C



BANDEDGE 802.11N 40MHZ CH151
Date: 22.MAY.2013 08:24:48

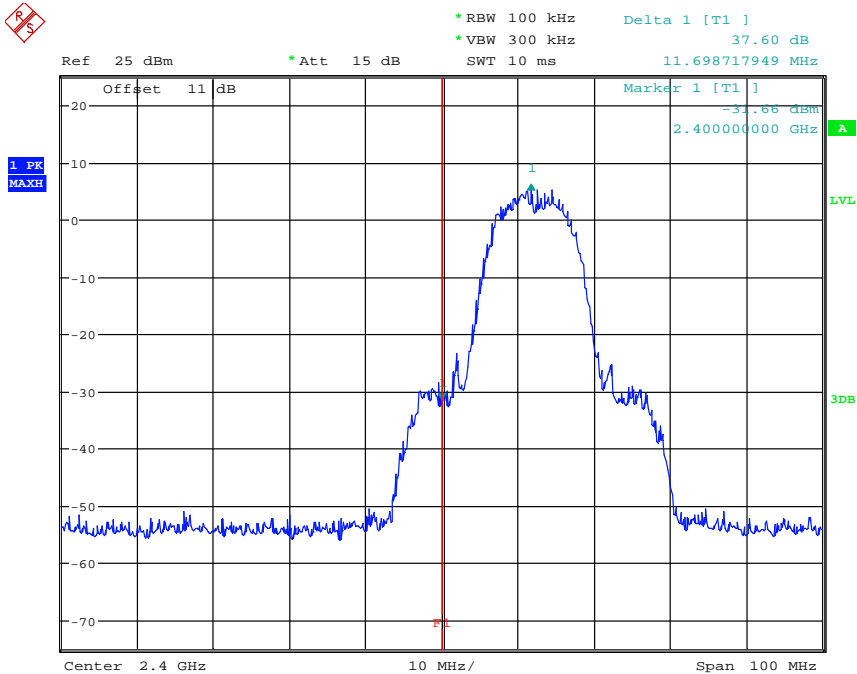


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 40MHZ CH159
Date: 22.MAY.2013 08:31:49

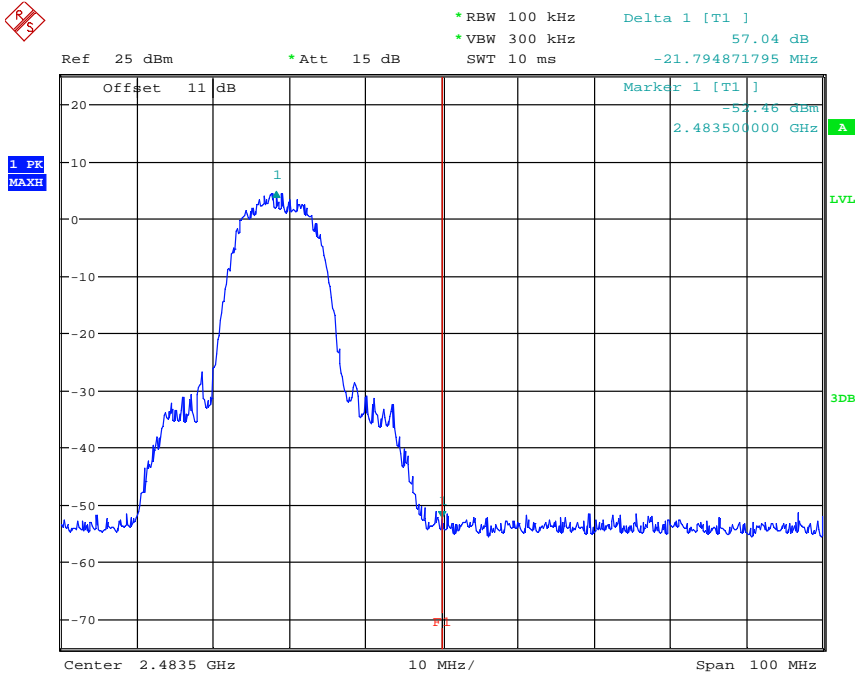
Mode D



BANDEDGE 802.11B CH01
Date: 22.MAY.2013 07:48:36

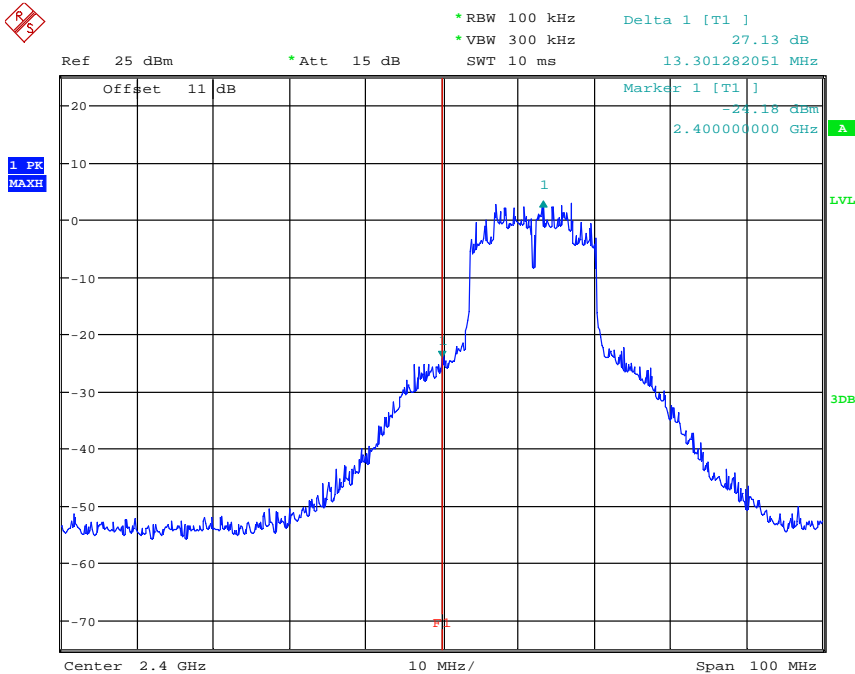


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11B CH11
Date: 22.MAY.2013 07:56:21

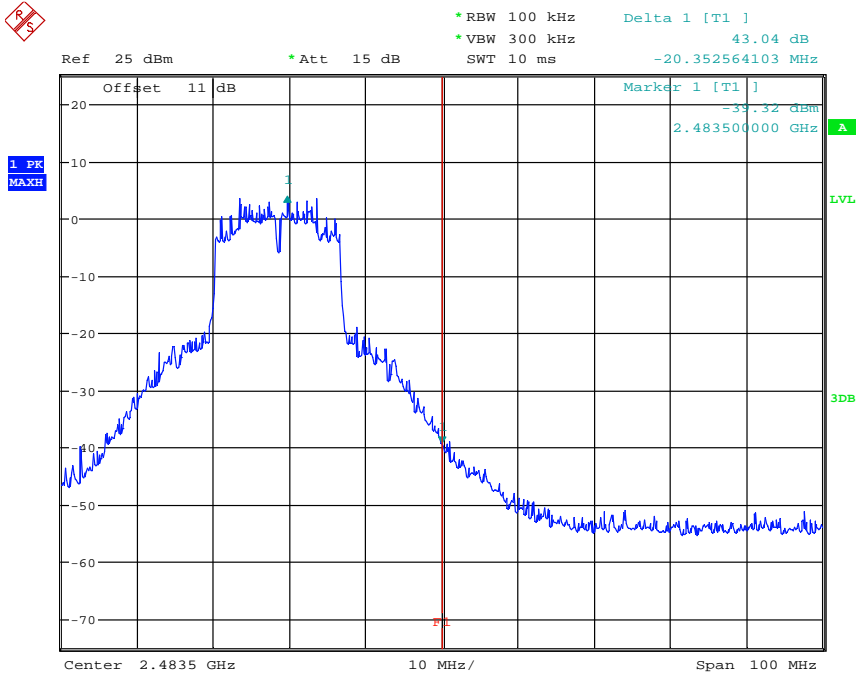
Mode E



BANDEDGE 802.11G CH01
Date: 22.MAY.2013 08:00:56

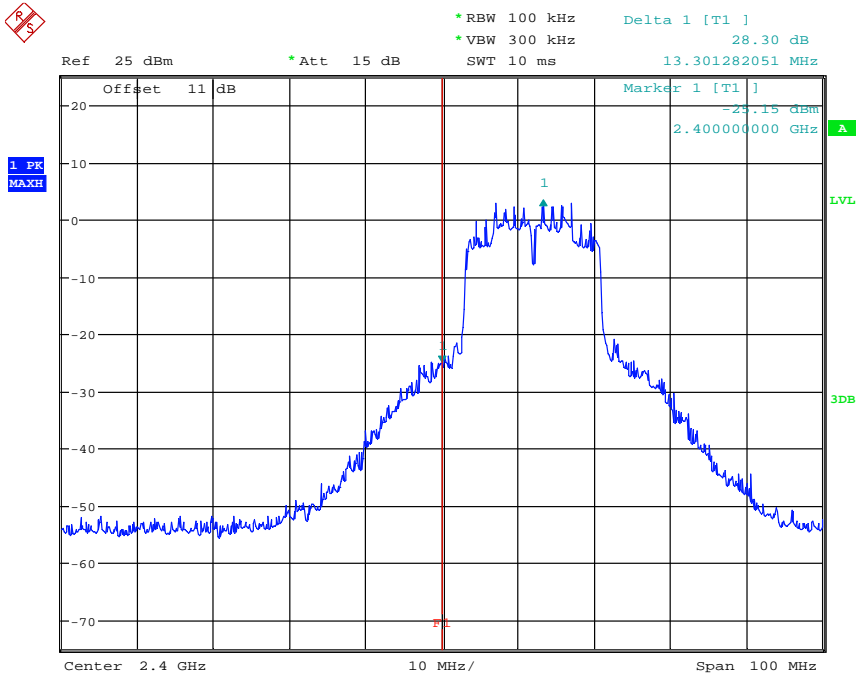


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11G CH11
Date: 22.MAY.2013 08:06:06

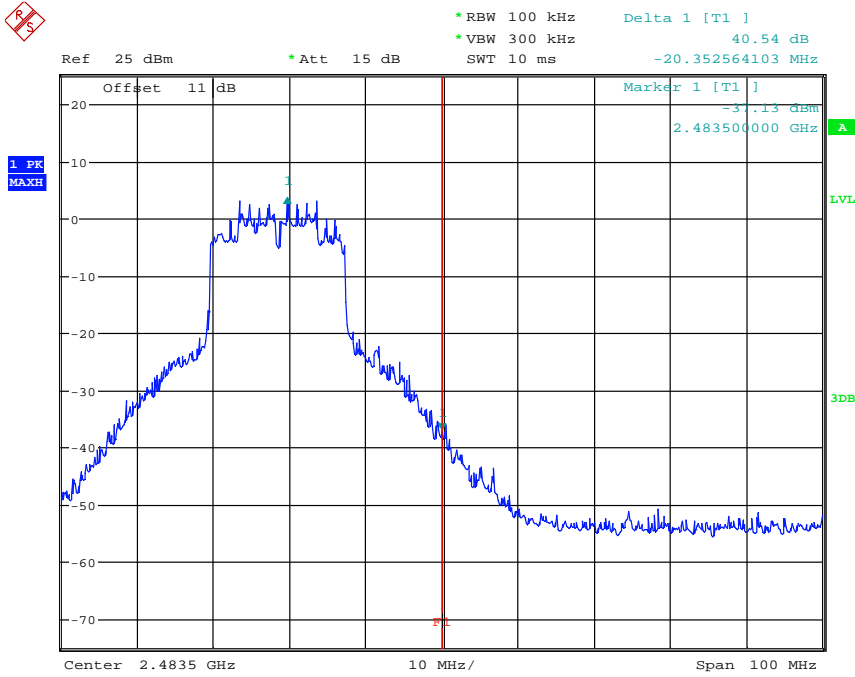
Mode F



BANDEDGE 802.11N 20MHZ CH01
Date: 22.MAY.2013 08:06:58

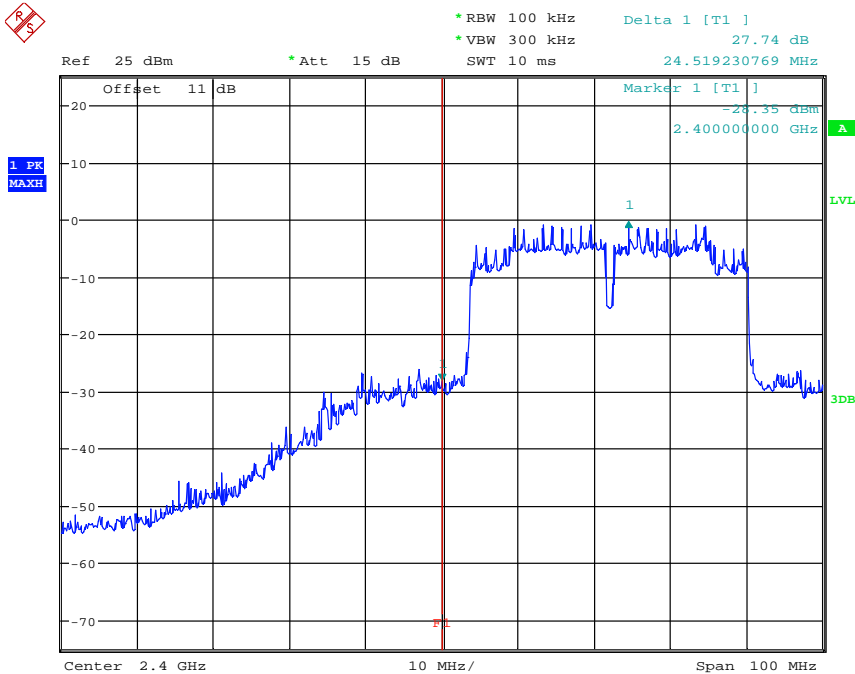


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 20MHZ CH11
Date: 22.MAY.2013 08:08:26

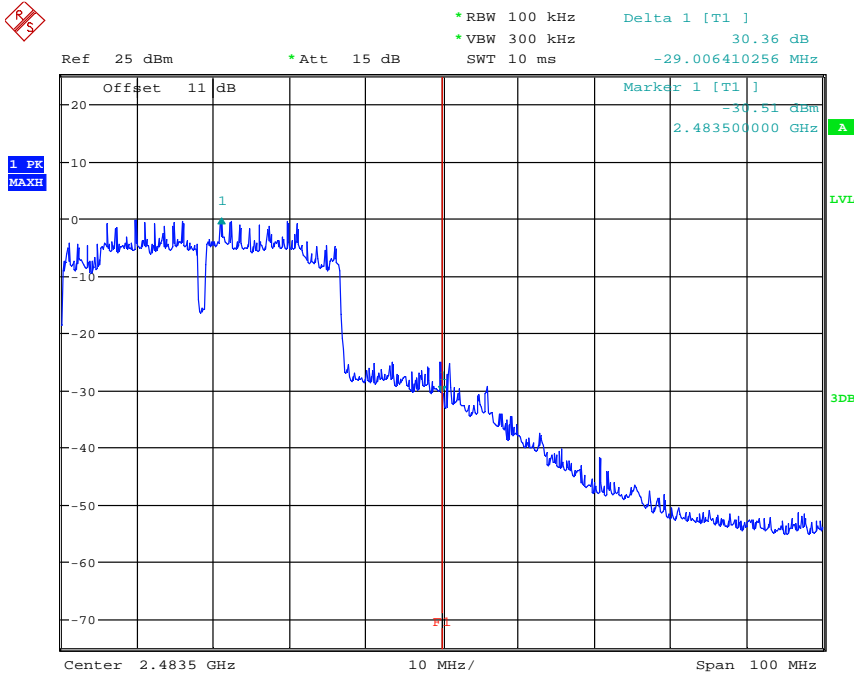
Mode G



BANDEDGE 802.11N 40MHZ CH01
Date: 22.MAY.2013 08:13:57

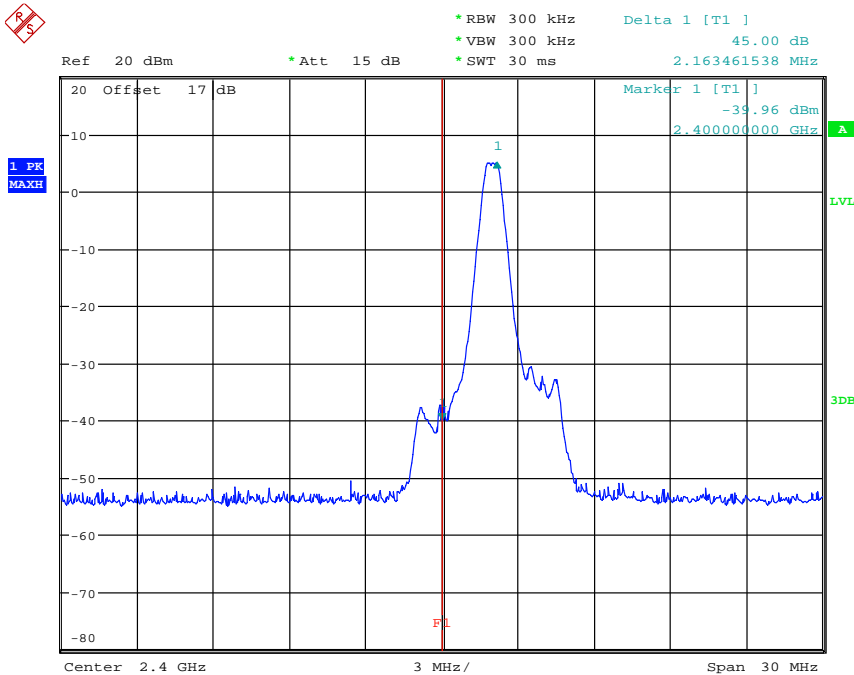


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE 802.11N 40MHZ CH07
Date: 22.MAY.2013 08:15:46

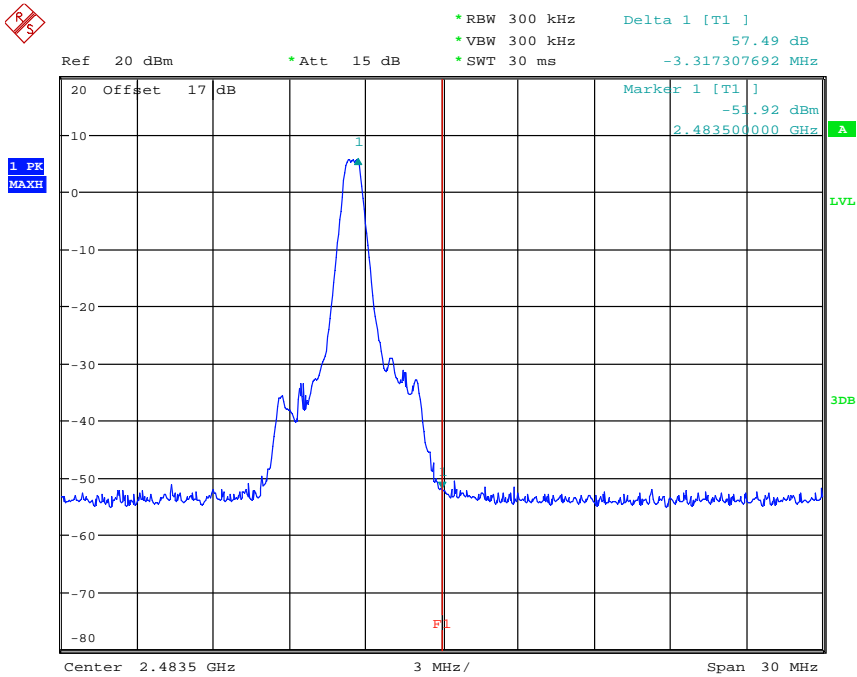
BT 2.0 Normal Mode H



BANDEDGE CH0
Date: 22.MAY.2013 10:25:53

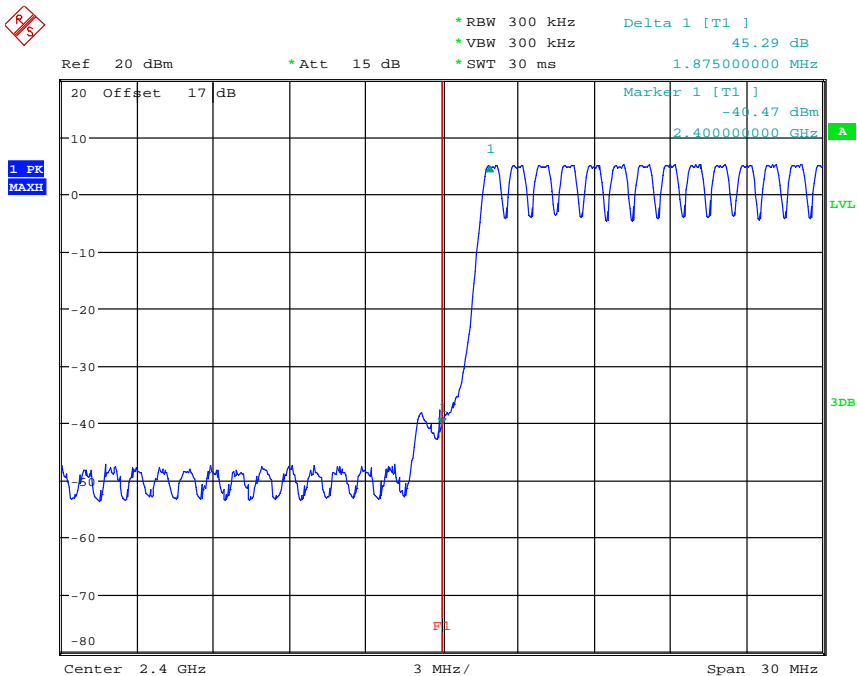


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE CH78

Date: 22.MAY.2013 10:39:45

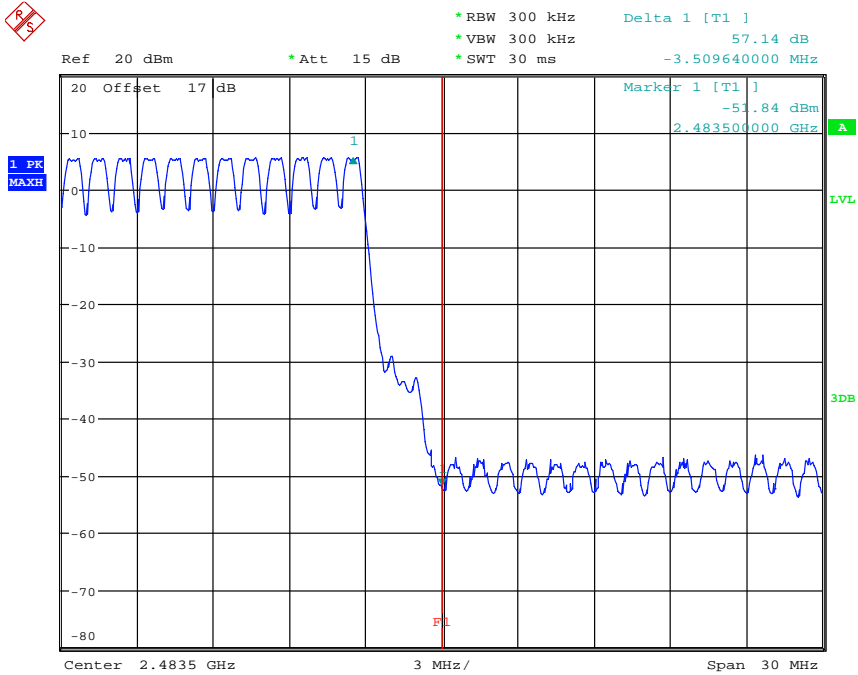


BANDEDGE CH0 HOPPING MODE

Date: 22.MAY.2013 10:40:58

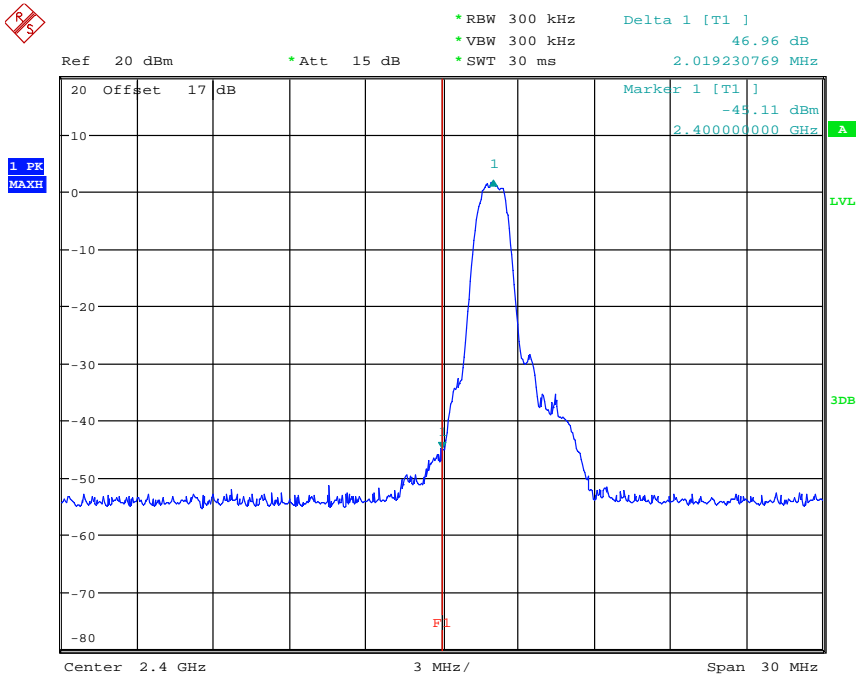


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE CH78 HOPPING MODE
Date: 22.MAY.2013 10:41:38

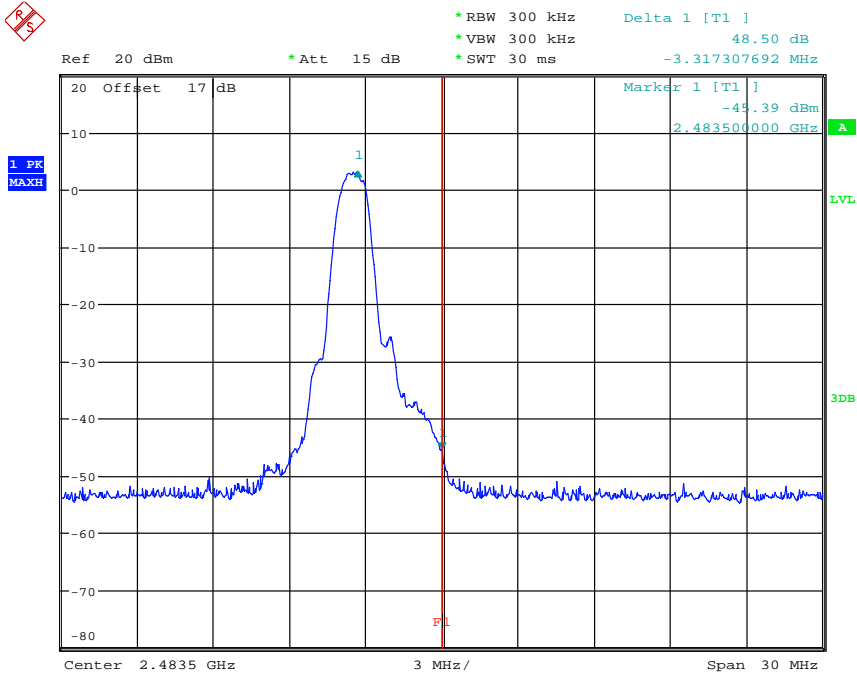
BT 2.0 EDR Mode I



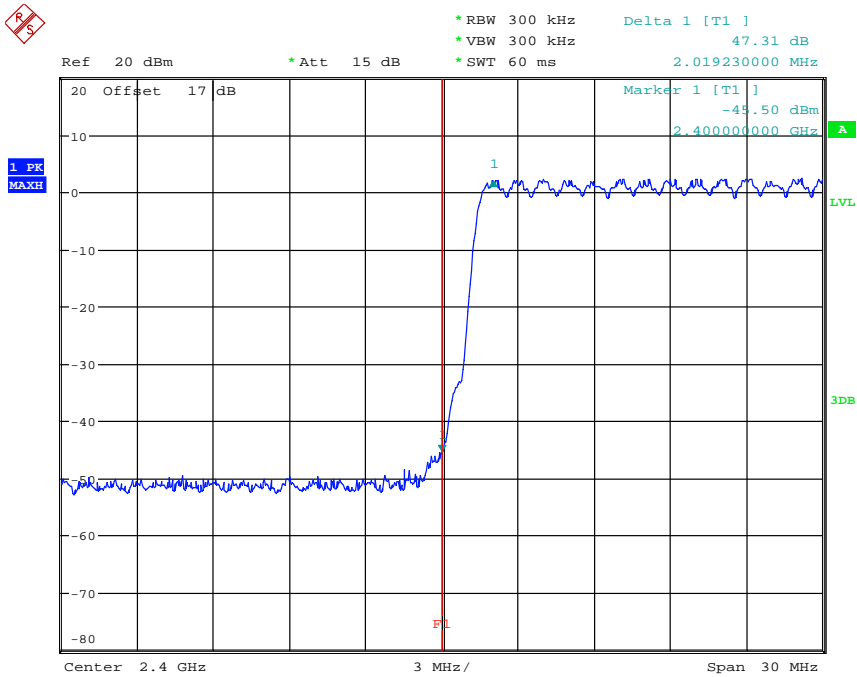
BANDEDGE CH0 EDR MODE
Date: 22.MAY.2013 10:48:53



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



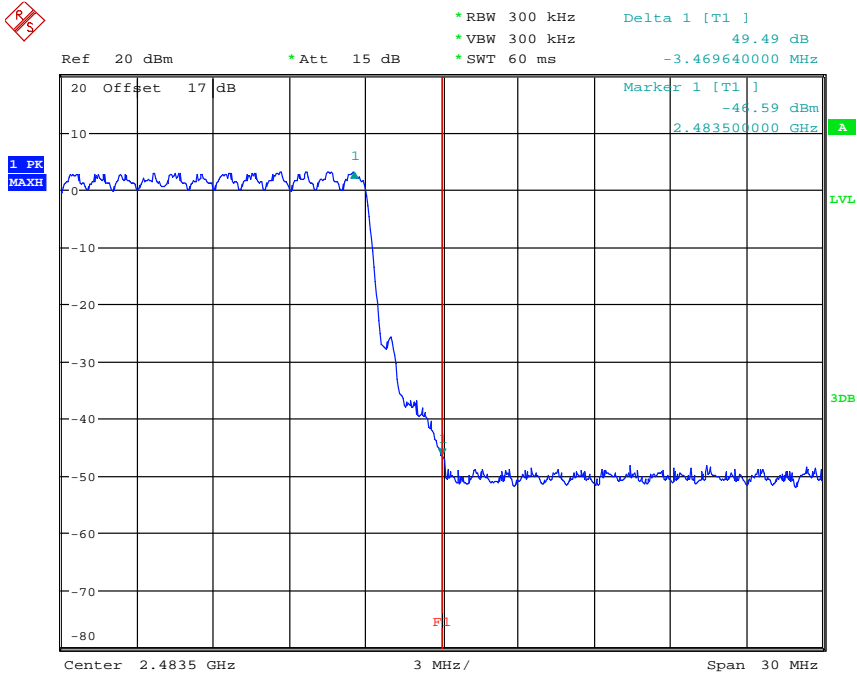
BANDEDGE CH78 EDR MODE
Date: 22.MAY.2013 10:51:57



BANDEDGE CH0 EDR HOPPING MODE
Date: 22.MAY.2013 10:54:17

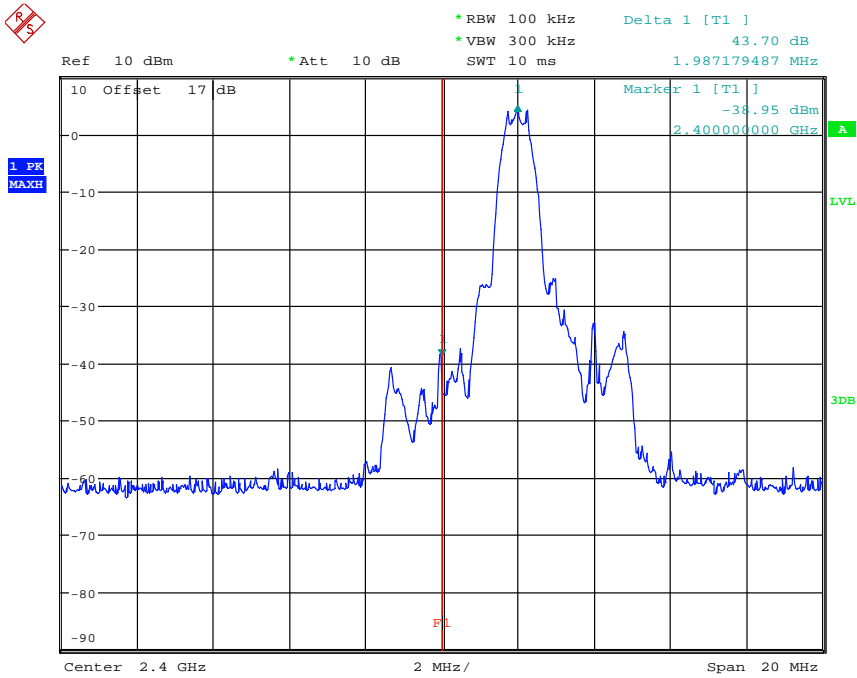


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



BANDEDGE CH78 EDR HOPPING MODE
Date: 22.MAY.2013 10:56:01

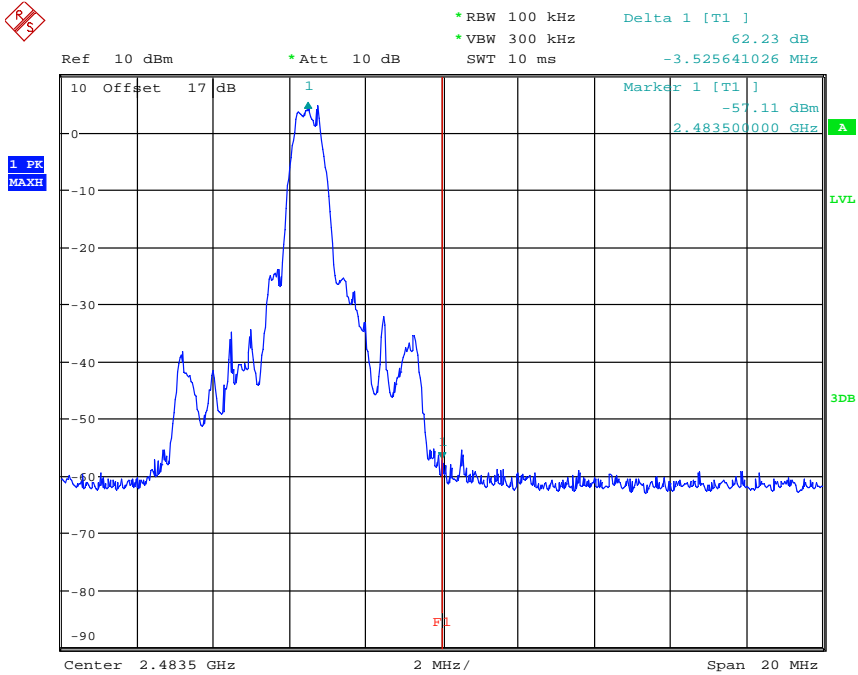
BT 4.0 Mode J



BANDEDGE BT4.0 CH00
Date: 22.MAY.2013 12:04:01



Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10



BANDEDGE BT4.0 CH39
 Date: 22.MAY.2013 12:10:42

Limit:

Frequency Range / MHz	Limit
902 - 928	- 20 dB
2400 - 2483.5	
5725 - 5850	

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064

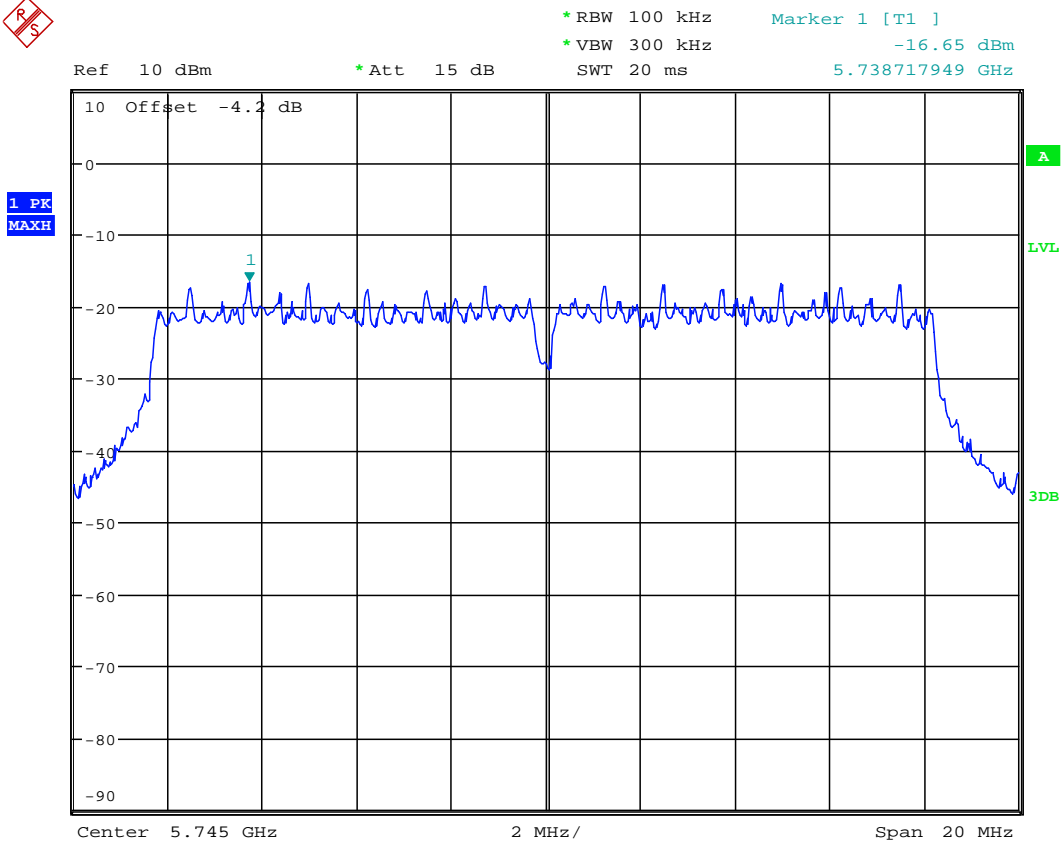


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.11 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.
The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

ANT A
Mode A

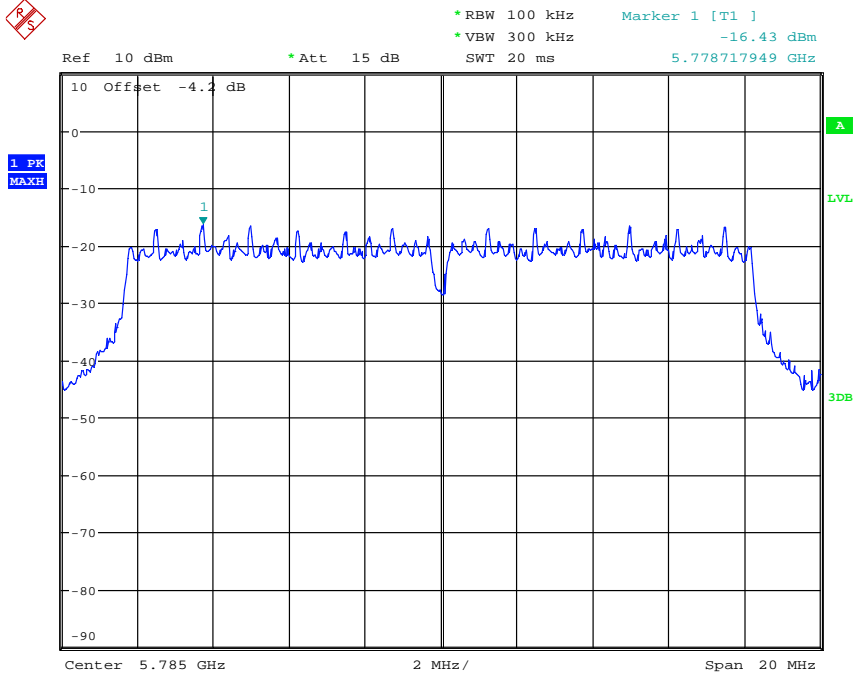


POWER DENSITY 802.11A CH149
Date: 22.MAY.2013 09:56:42

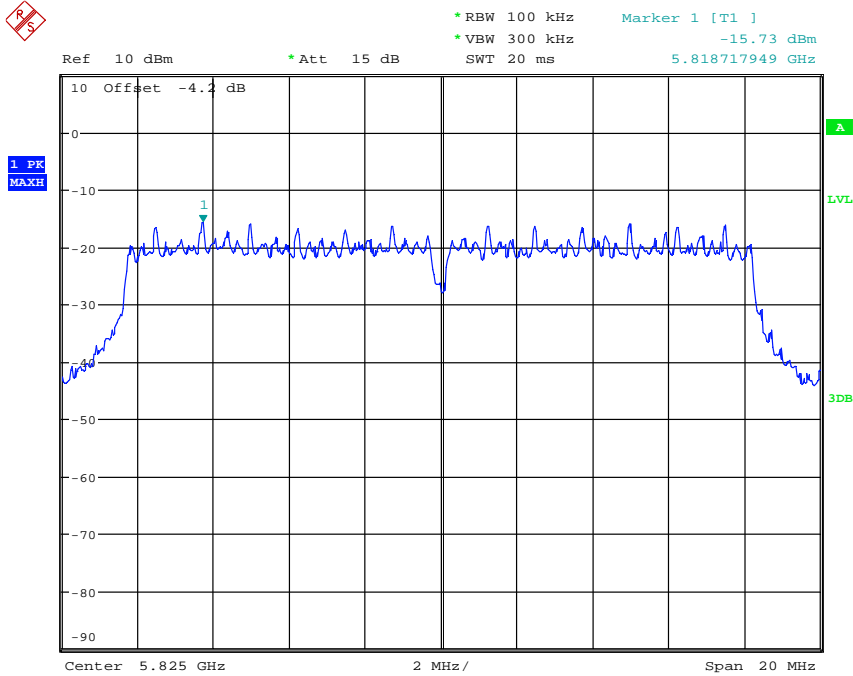


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11A CH157
Date: 22.MAY.2013 09:57:22

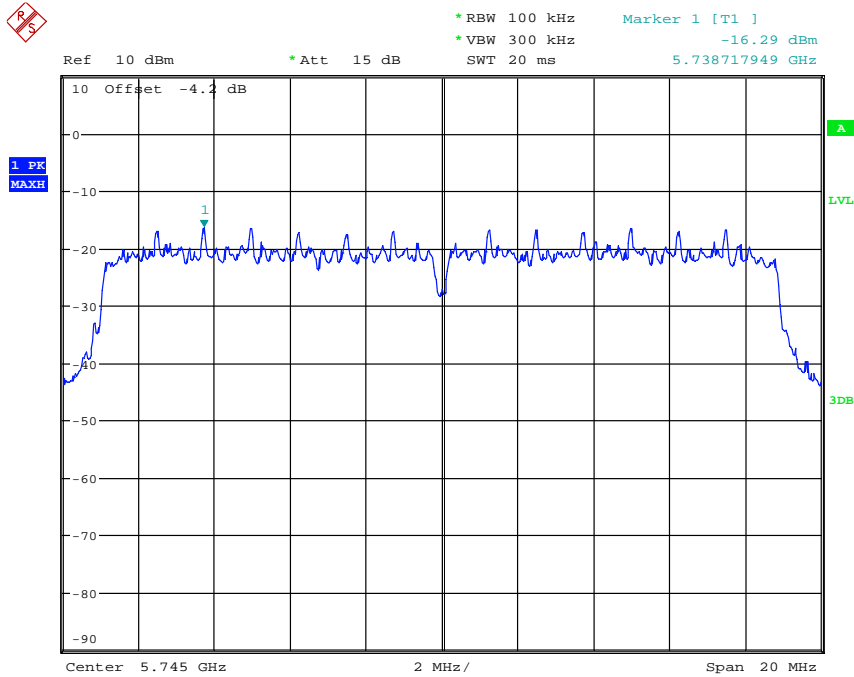


POWER DENSITY 802.11A CH165
Date: 22.MAY.2013 09:57:58

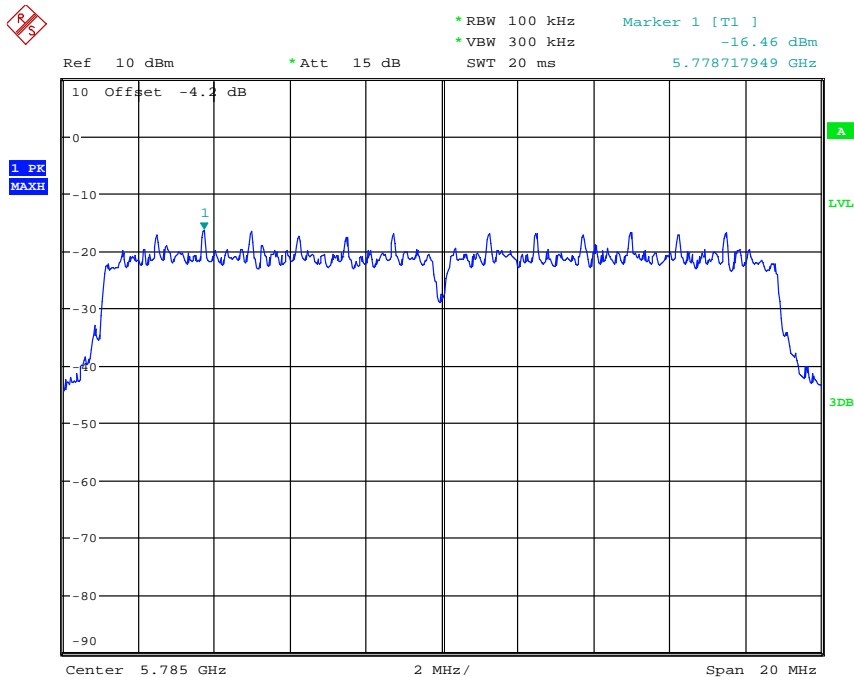


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



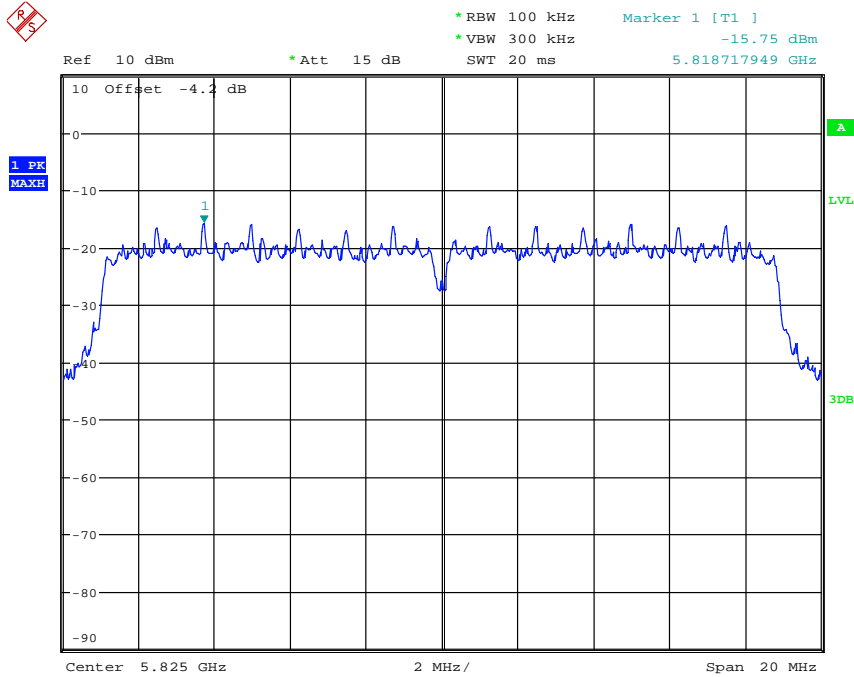
POWER DENSITY 802.11N 20MHZ CH149
Date: 22.MAY.2013 10:01:28



POWER DENSITY 802.11N 20MHZ CH157
Date: 22.MAY.2013 10:02:10

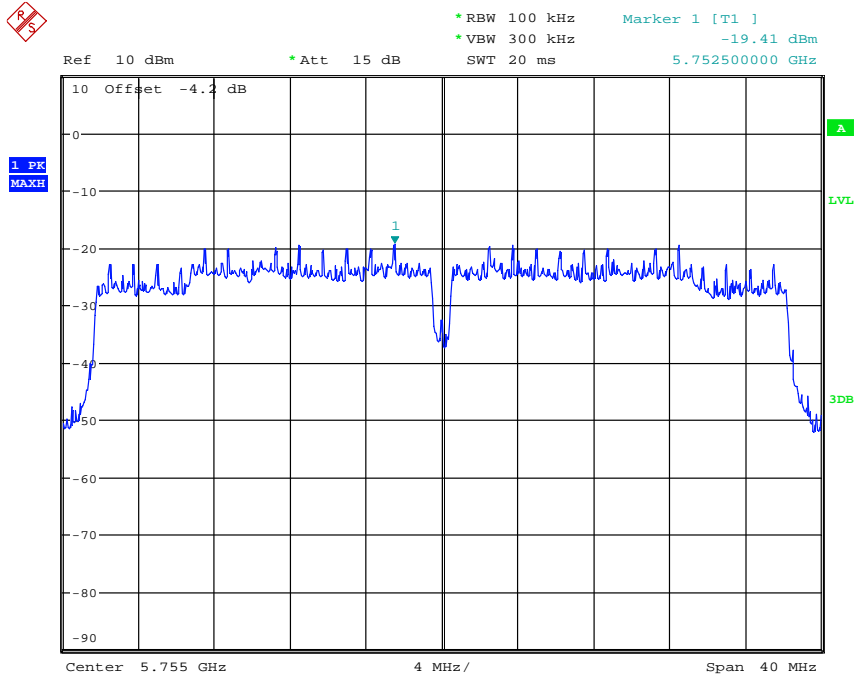


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 20MHZ CH165
Date: 22.MAY.2013 10:03:06

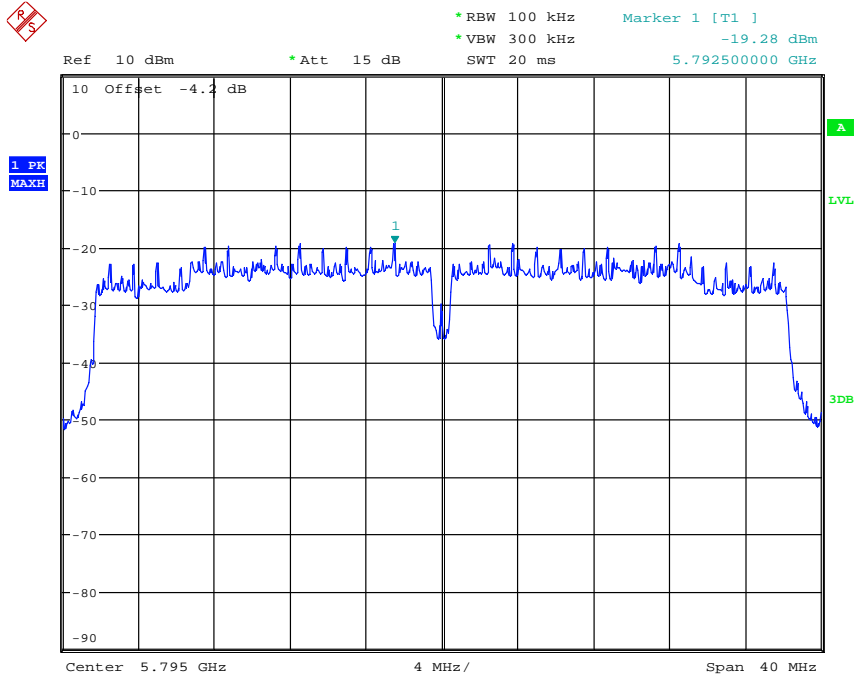
Mode C



POWER DENSITY 802.11N 40MHZ CH151
Date: 22.MAY.2013 10:04:39

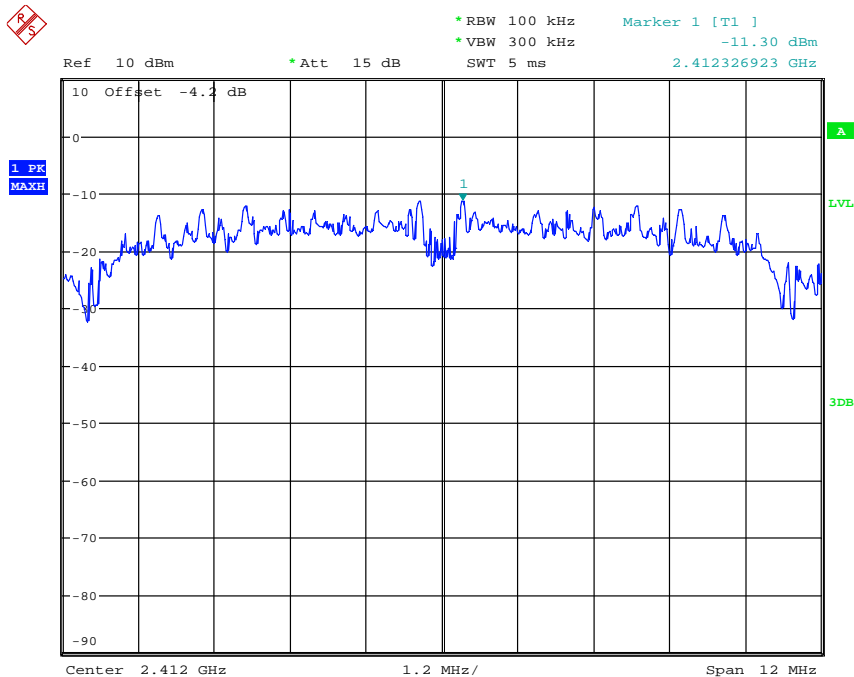


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 40MHZ CH159
Date: 22.MAY.2013 10:05:19

Mode D

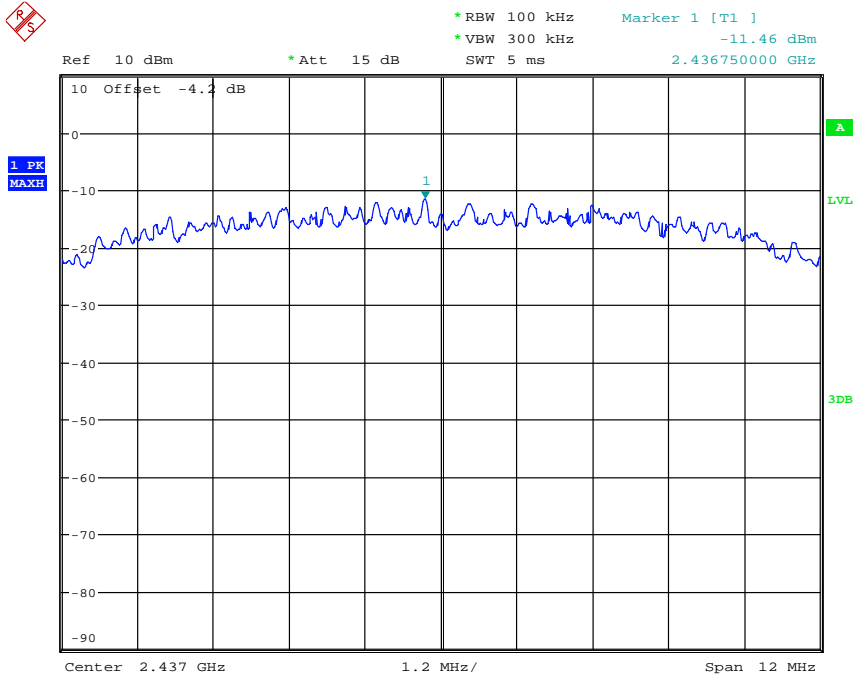


POWER DENSITY 802.11B CH01
Date: 22.MAY.2013 07:09:56

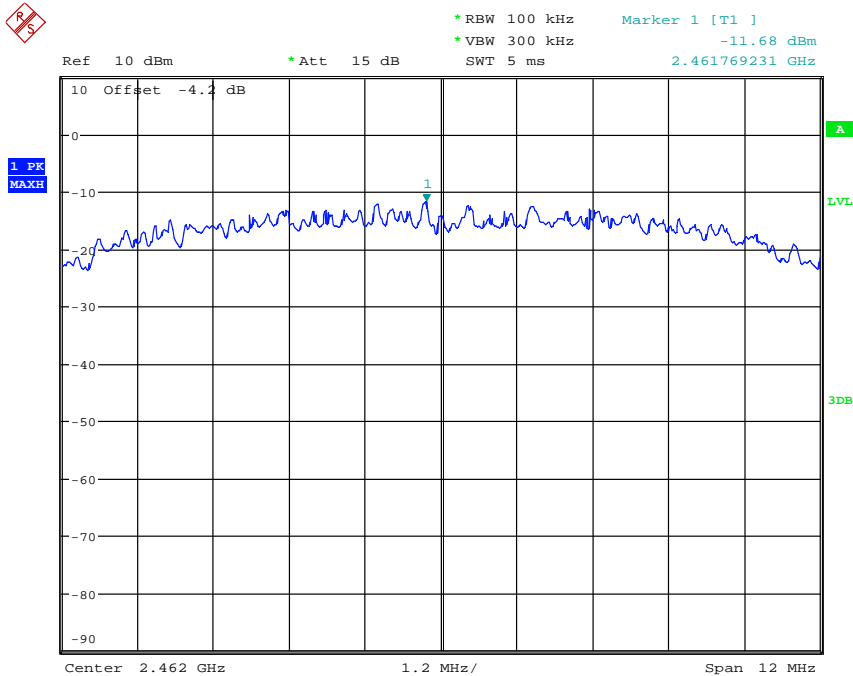


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11B CH06
Date: 22.MAY.2013 07:11:04



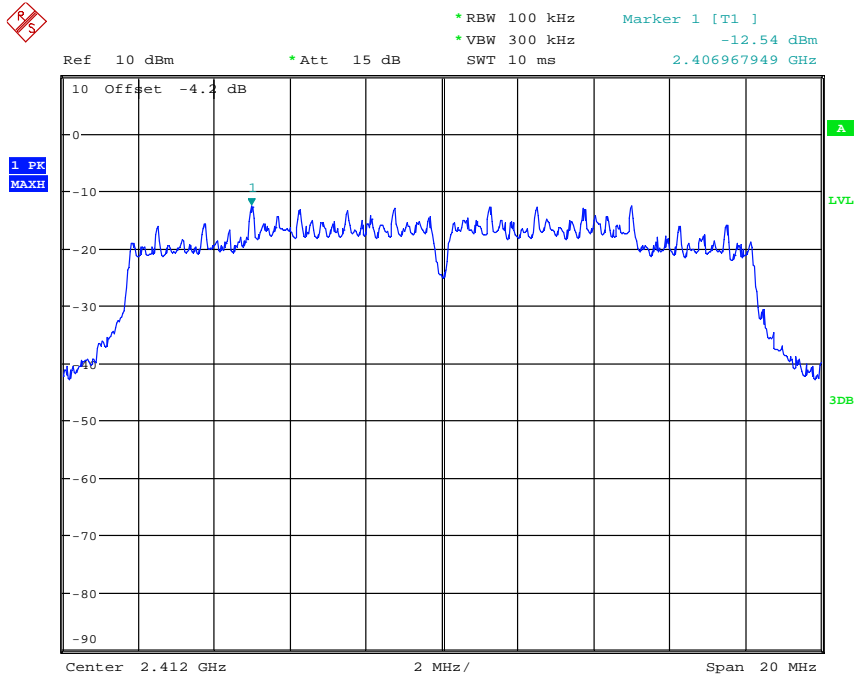
POWER DENSITY 802.11B CH11
Date: 22.MAY.2013 07:13:14



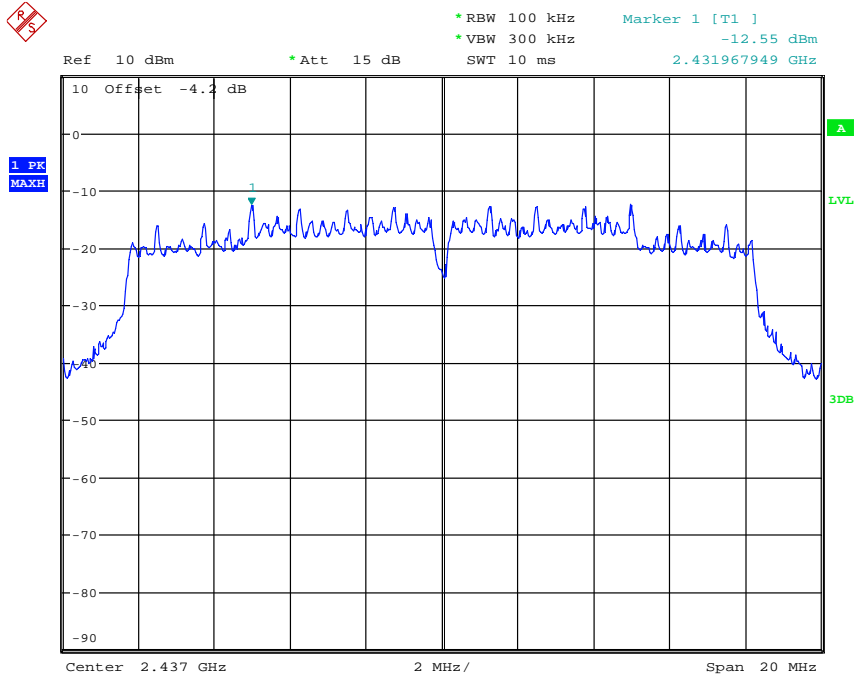
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode E



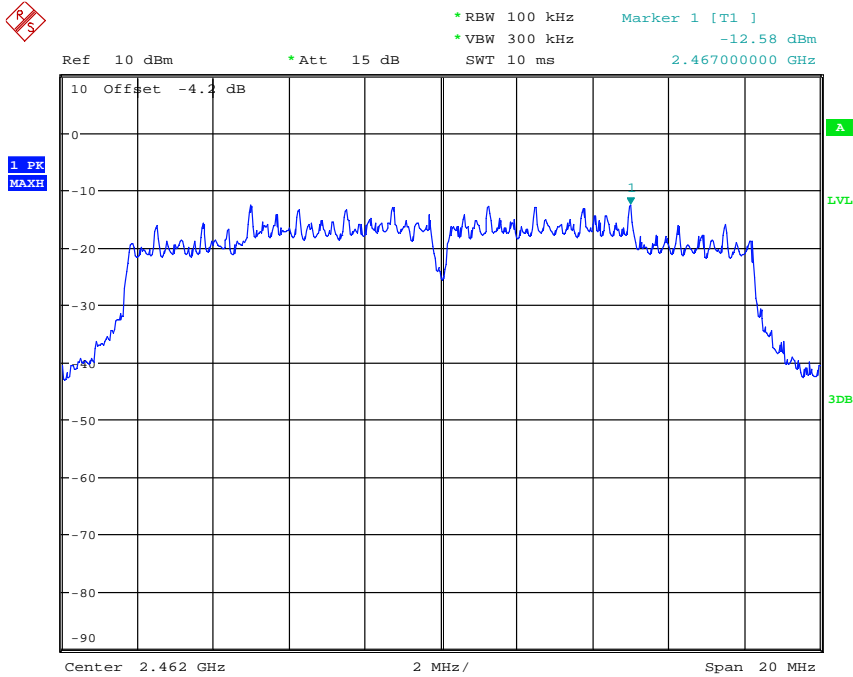
POWER DENSITY 802.11G CH01
Date: 22.MAY.2013 07:14:29



POWER DENSITY 802.11G CH06
Date: 22.MAY.2013 07:15:10

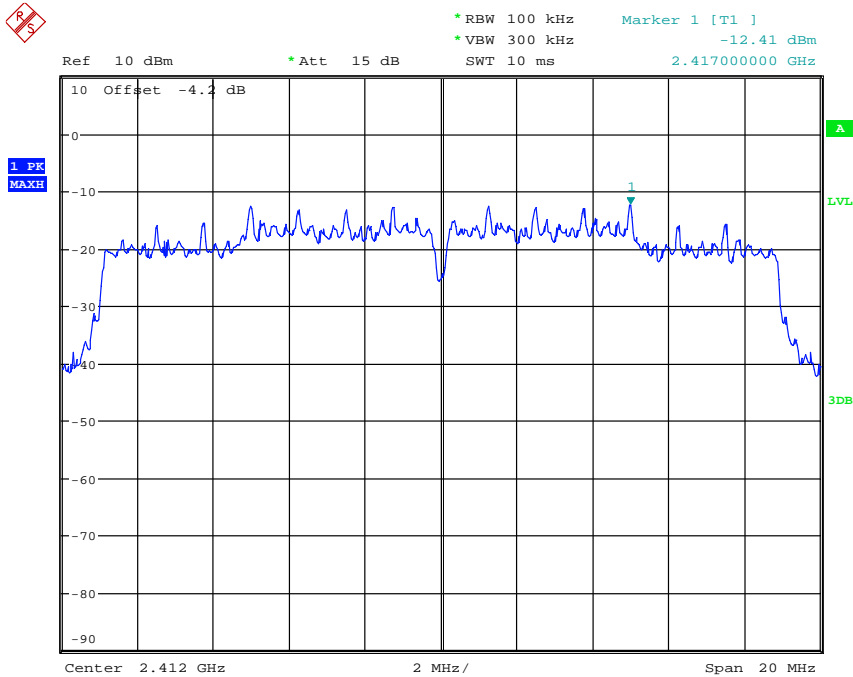


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11G CH11
Date: 22.MAY.2013 07:16:12

Mode F

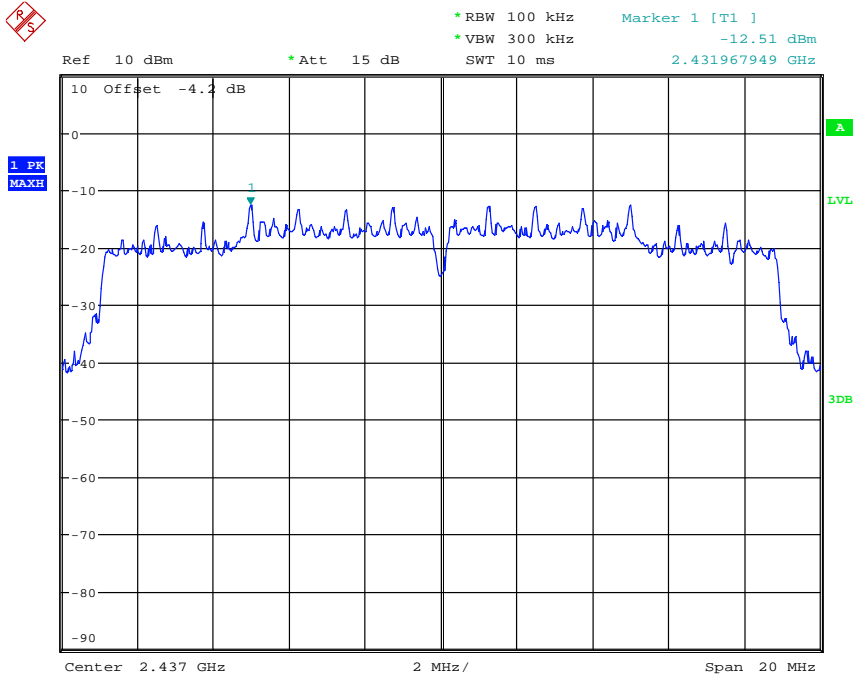


POWER DENSITY 802.11N 20MHZ CH01
Date: 22.MAY.2013 07:23:13

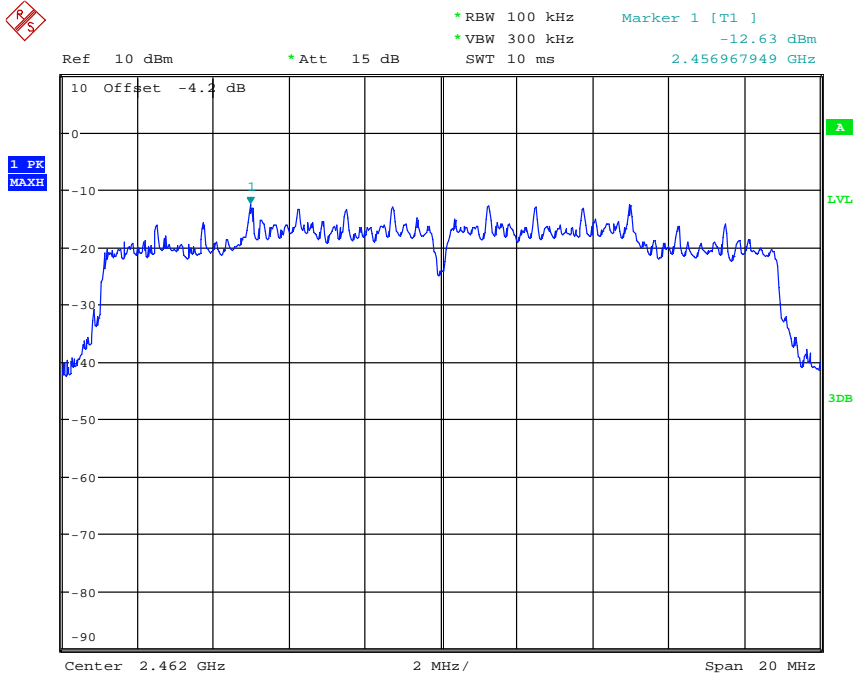


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 20MHZ CH06
Date: 22.MAY.2013 07:23:53

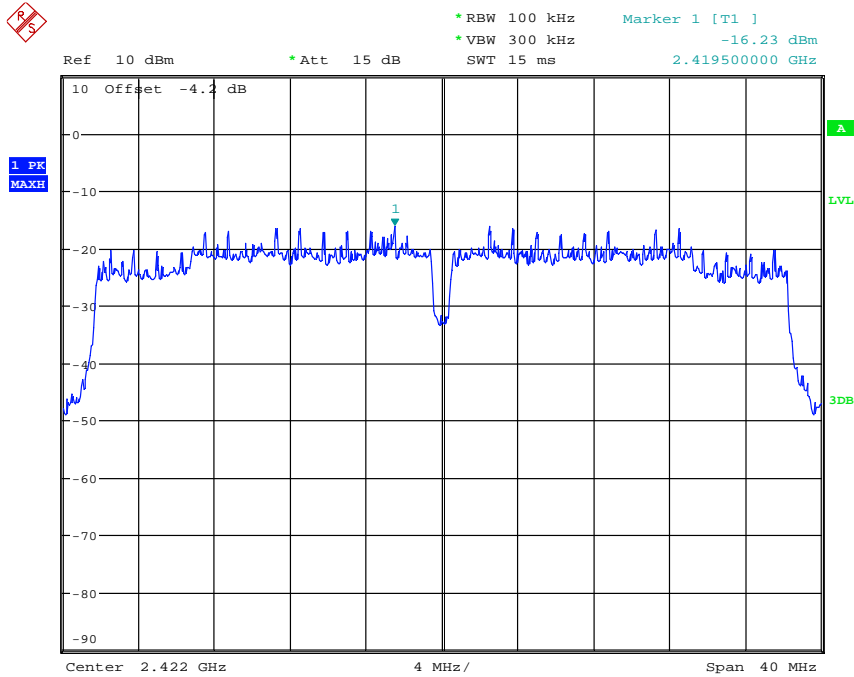


POWER DENSITY 802.11N 20MHZ CH11
Date: 22.MAY.2013 07:36:16

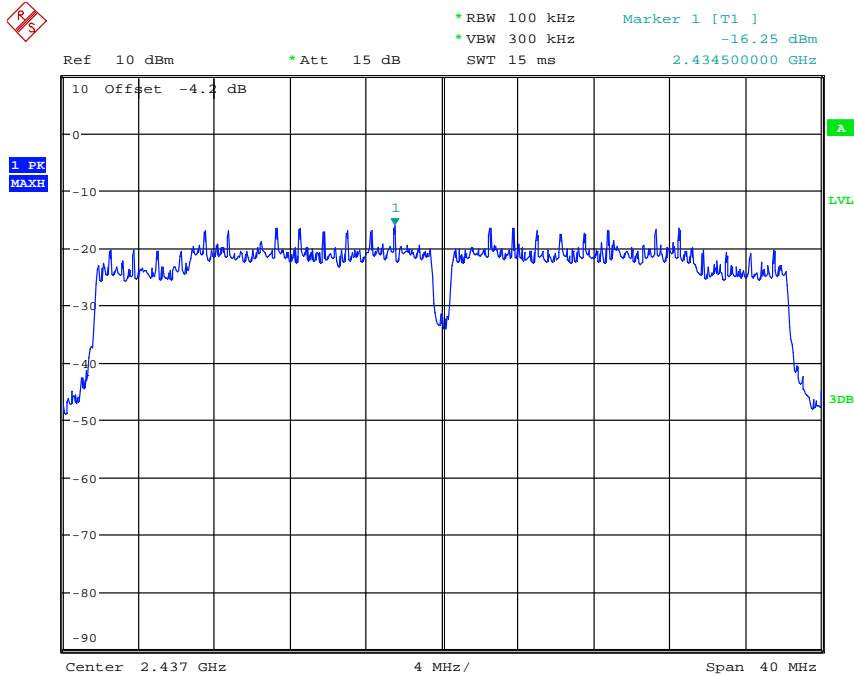


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



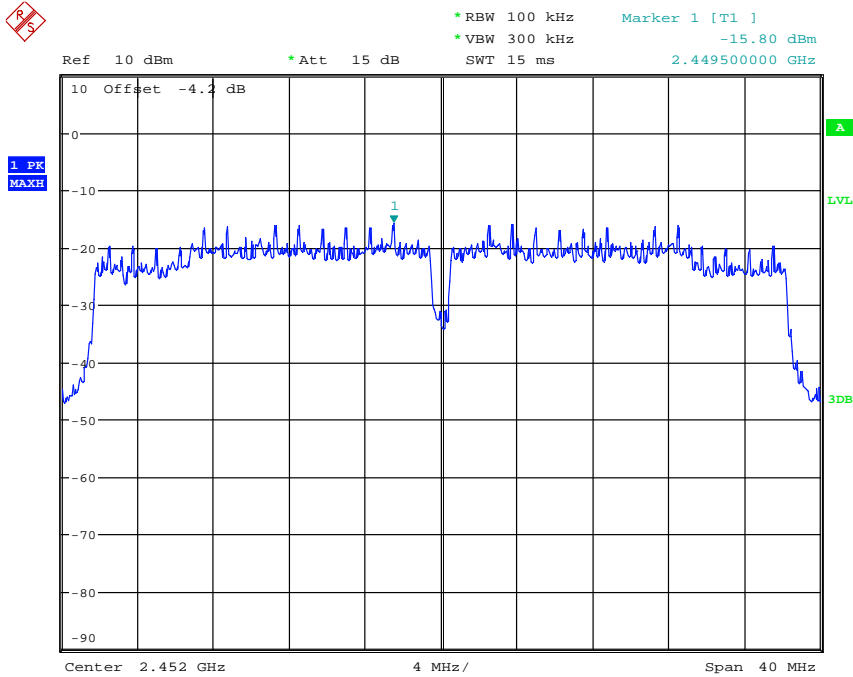
POWER DENSITY 802.11N 40MHZ CH01
Date: 22.MAY.2013 07:37:09



POWER DENSITY 802.11N 40MHZ CH04
Date: 22.MAY.2013 07:39:19

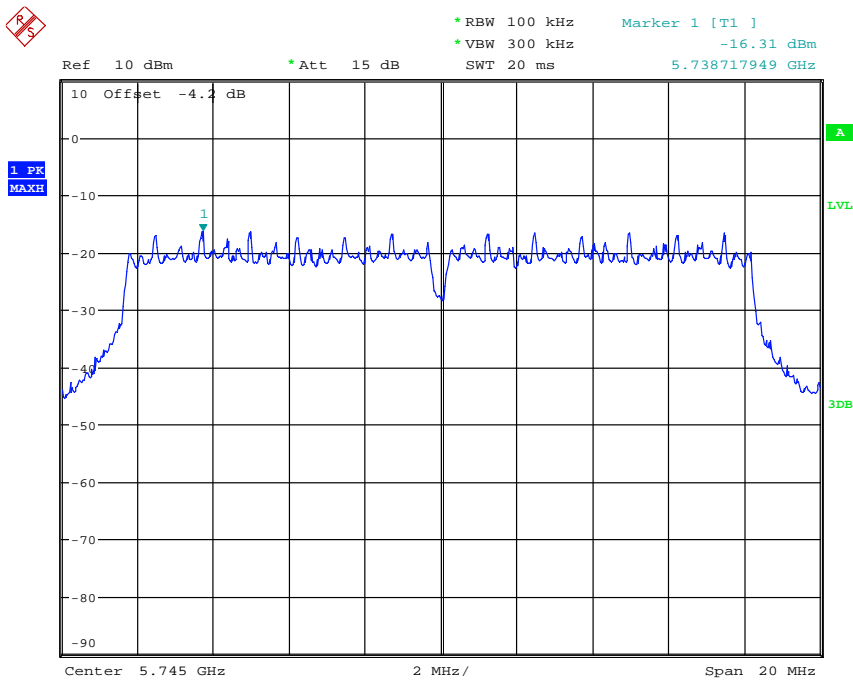


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 40MHZ CH07
Date: 22.MAY.2013 07:38:27

ANT B Mode A

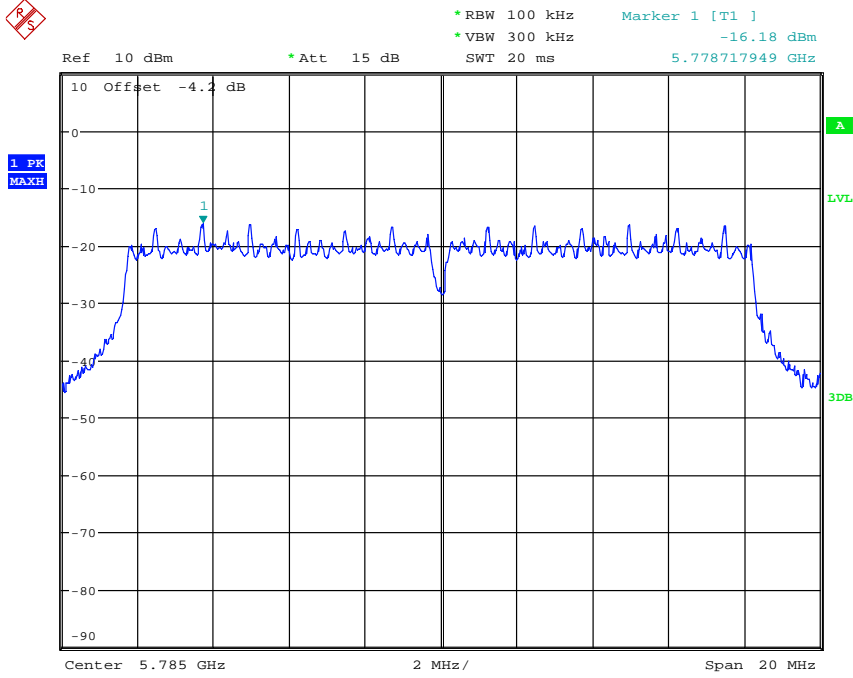


POWER DENSITY 802.11A CH149
Date: 22.MAY.2013 08:20:20

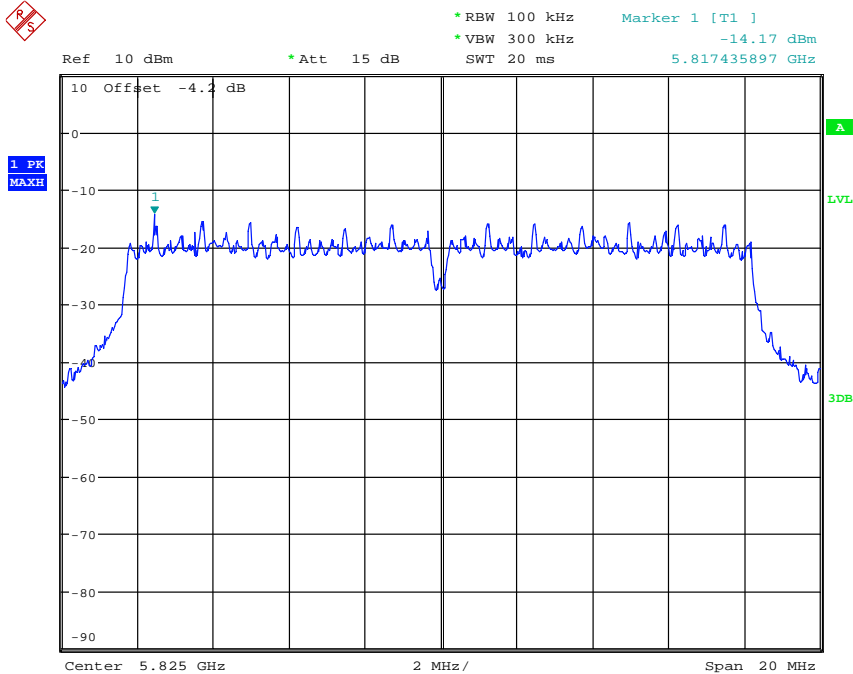


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11A CH157
Date: 22.MAY.2013 08:21:01

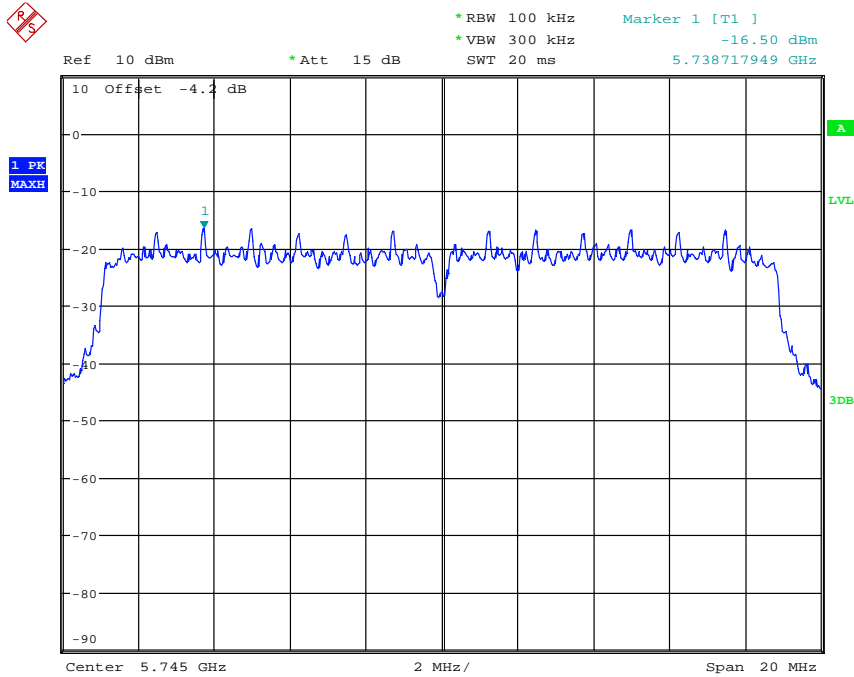


POWER DENSITY 802.11A CH165
Date: 22.MAY.2013 08:21:37

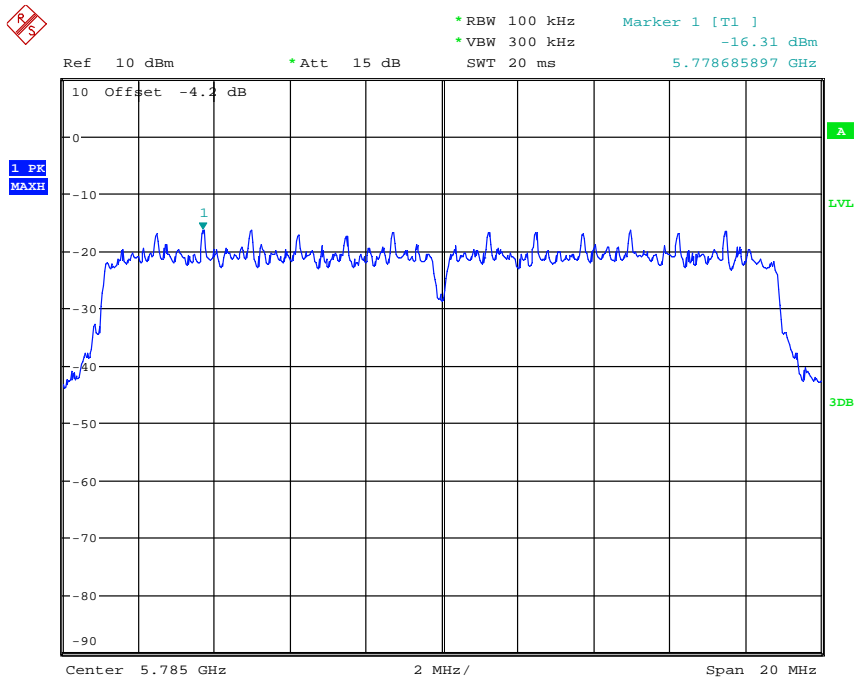


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode B



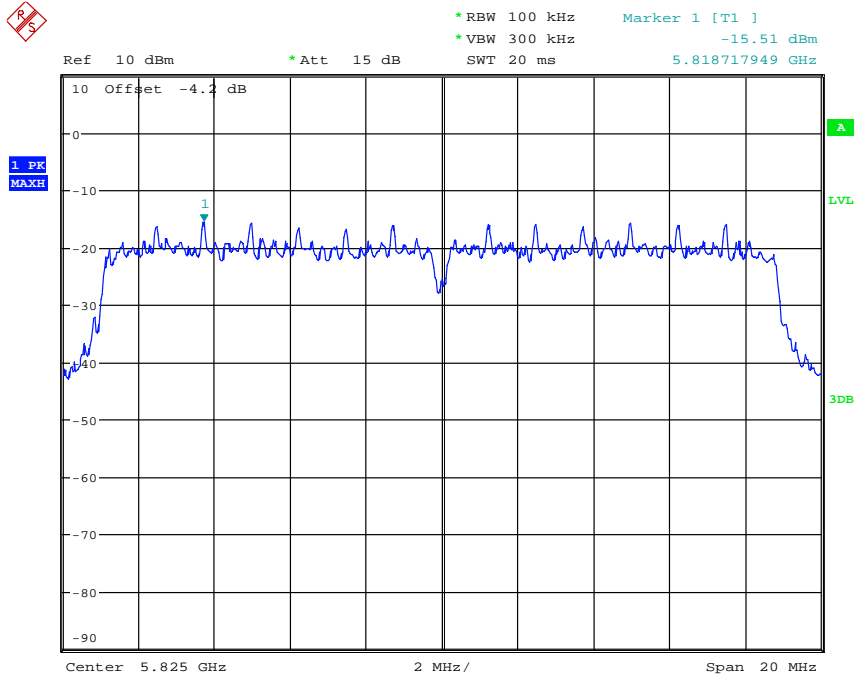
POWER DENSITY 802.11N 20MHZ CH149
Date: 22.MAY.2013 08:22:24



POWER DENSITY 802.11N 20MHZ CH157
Date: 22.MAY.2013 08:23:04

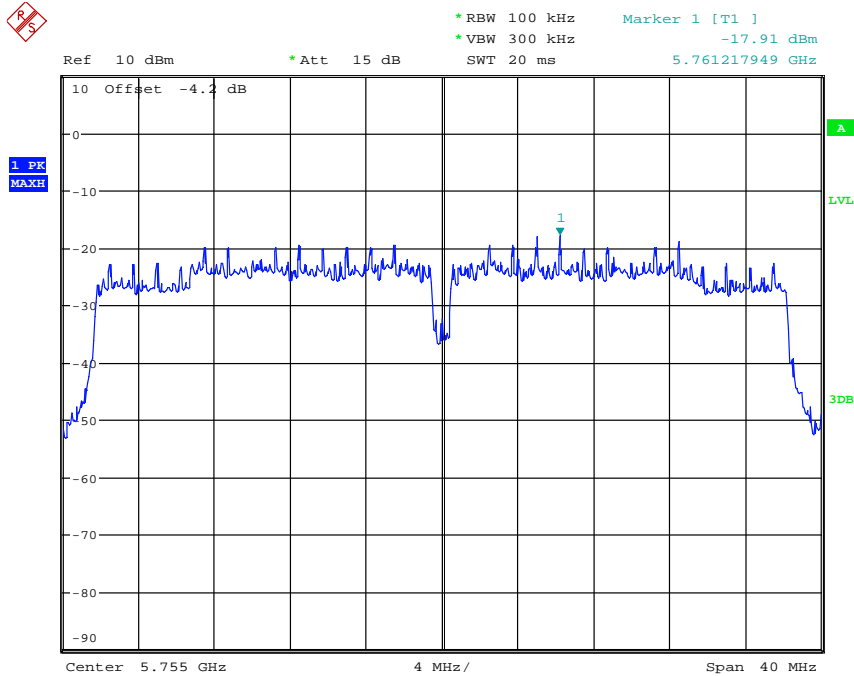


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 20MHZ CH165
Date: 22.MAY.2013 08:23:39

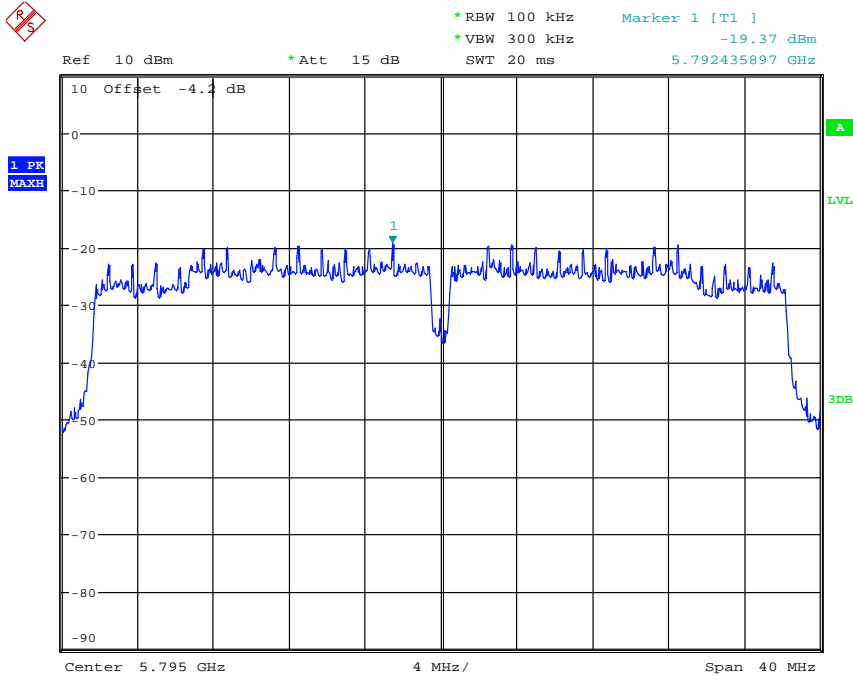
Mode C



POWER DENSITY 802.11N 40MHZ CH151
Date: 22.MAY.2013 08:24:42

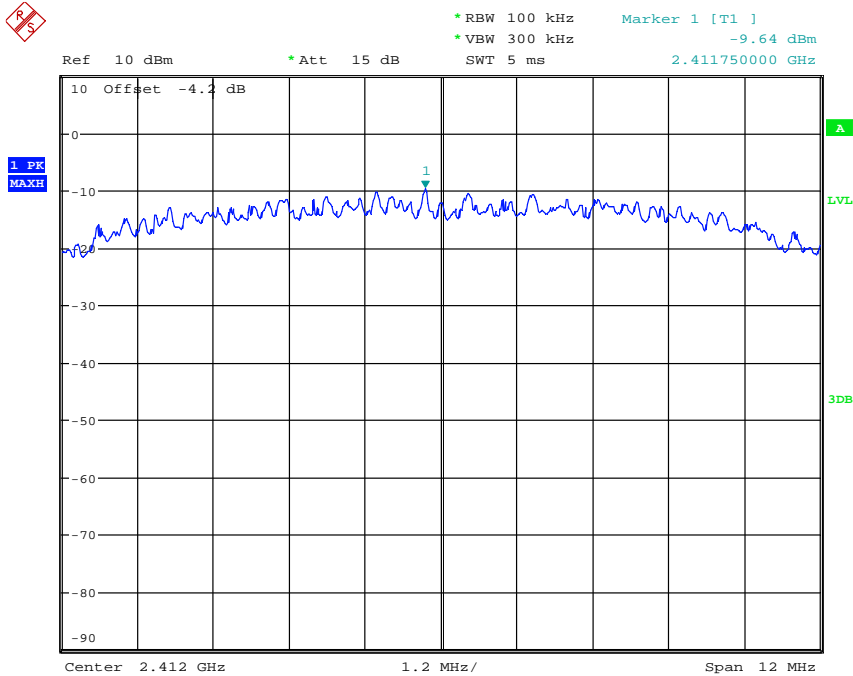


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 40MHZ CH159
Date: 22.MAY.2013 08:25:27

Mode D

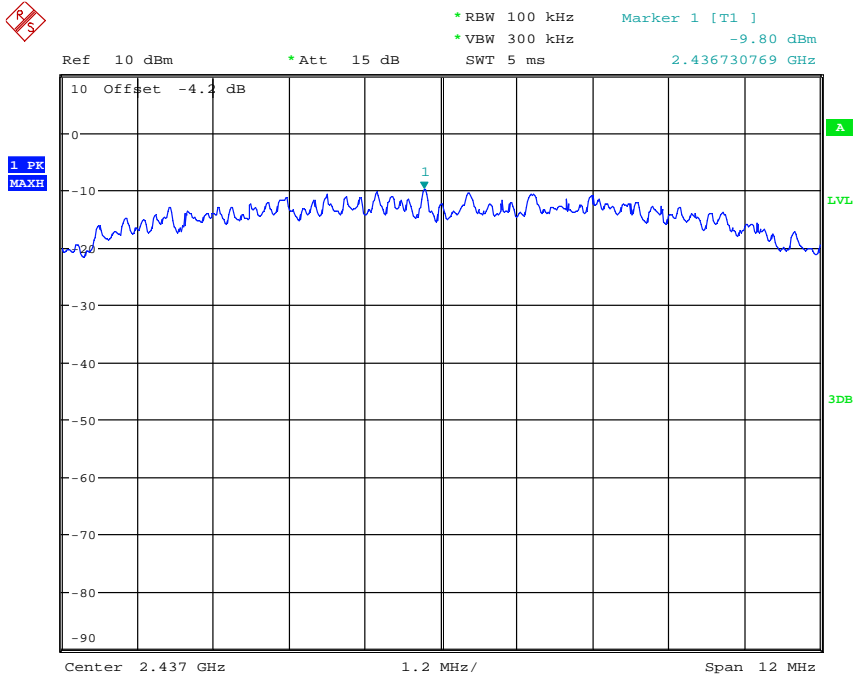


POWER DENSITY 802.11B CH01
Date: 22.MAY.2013 07:48:30

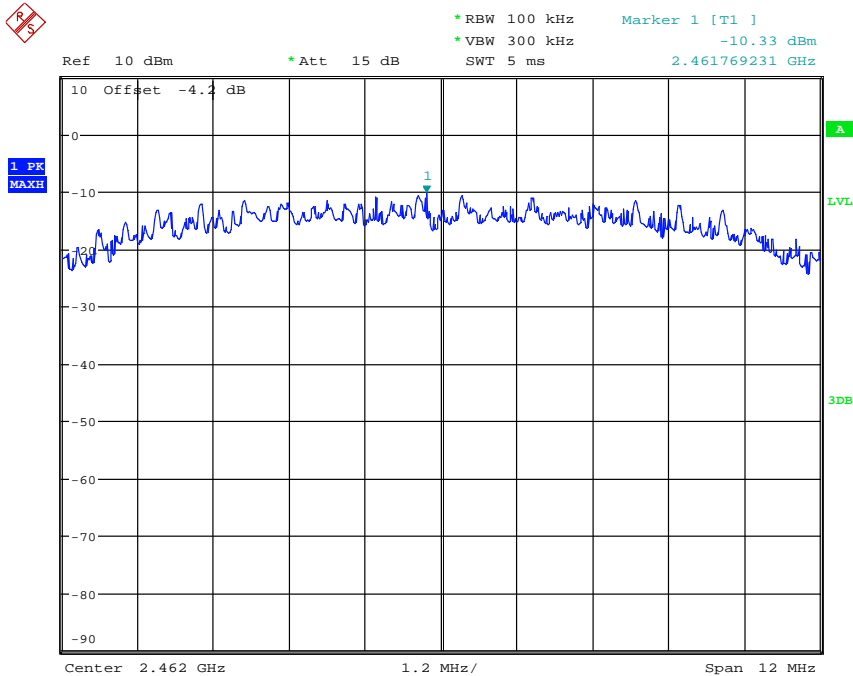


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11B CH06
Date: 22.MAY.2013 07:54:04



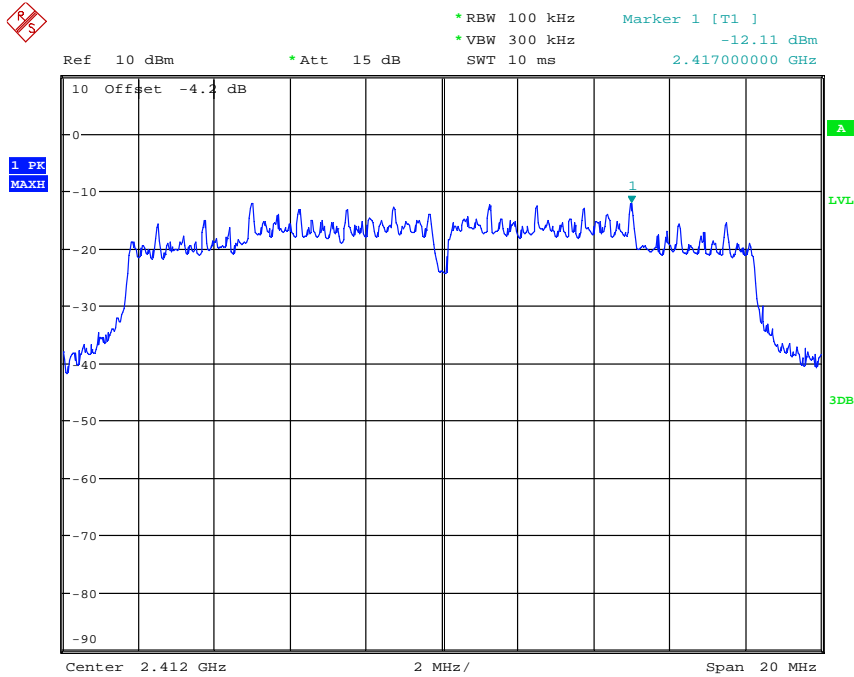
POWER DENSITY 802.11B CH11
Date: 22.MAY.2013 07:56:15



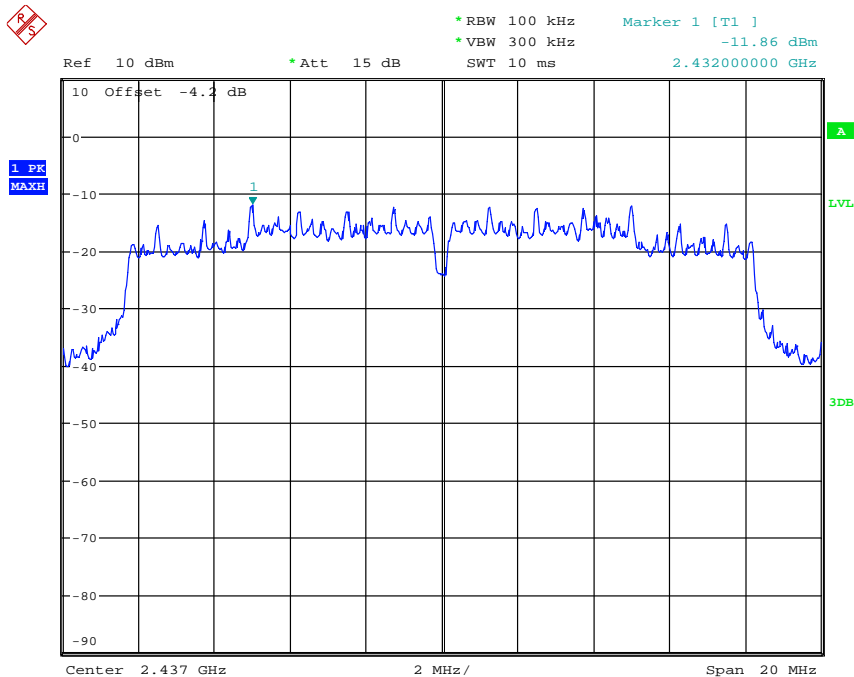
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode E



POWER DENSITY 802.11G CH01
Date: 22.MAY.2013 08:00:50

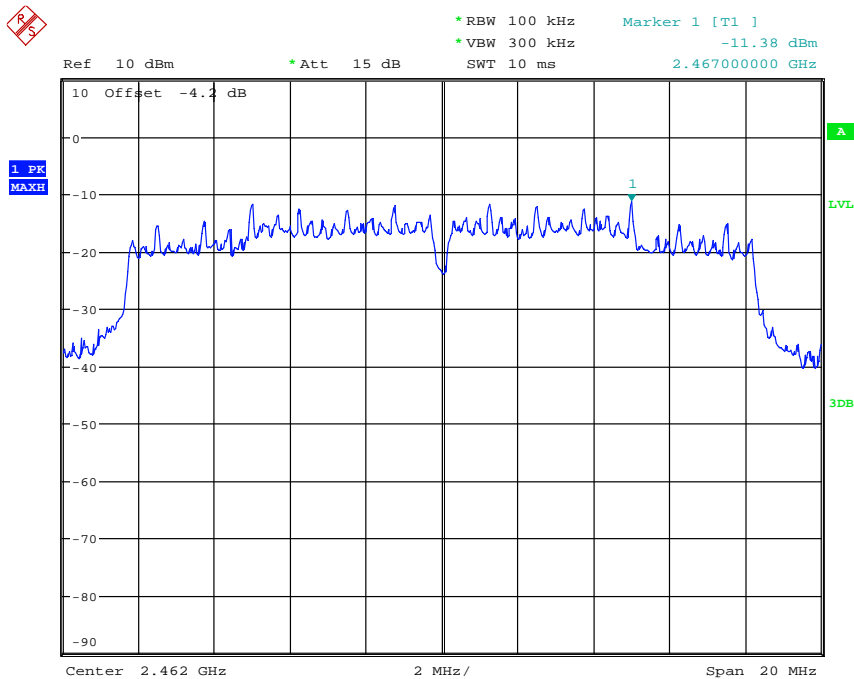


POWER DENSITY 802.11G CH06
Date: 22.MAY.2013 08:05:10



Registration number: W6M21304-13125-C-1

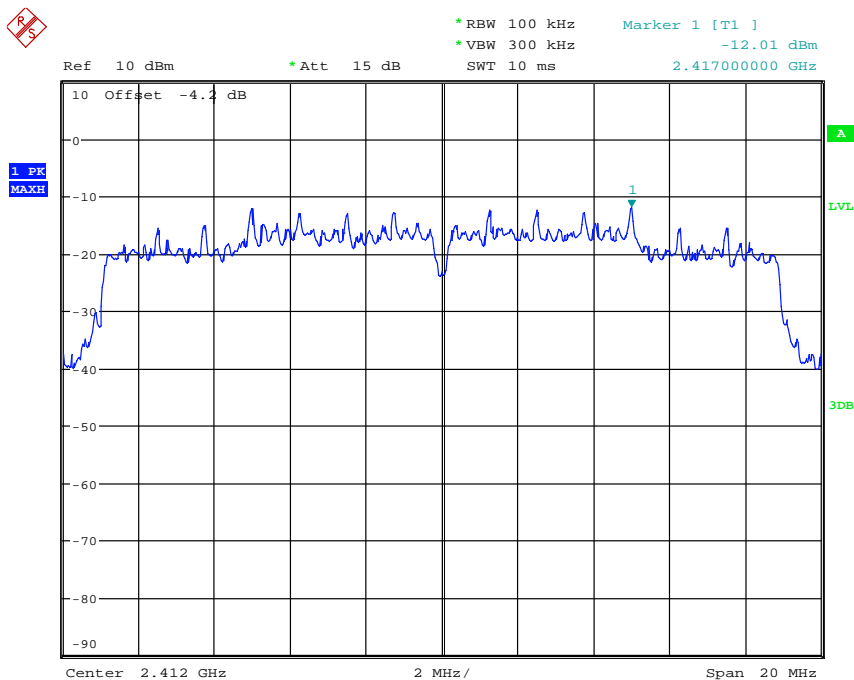
FCC ID: IR5DR10



POWER DENSITY 802.11G CH11

Date: 22.MAY.2013 08:06:00

Mode F

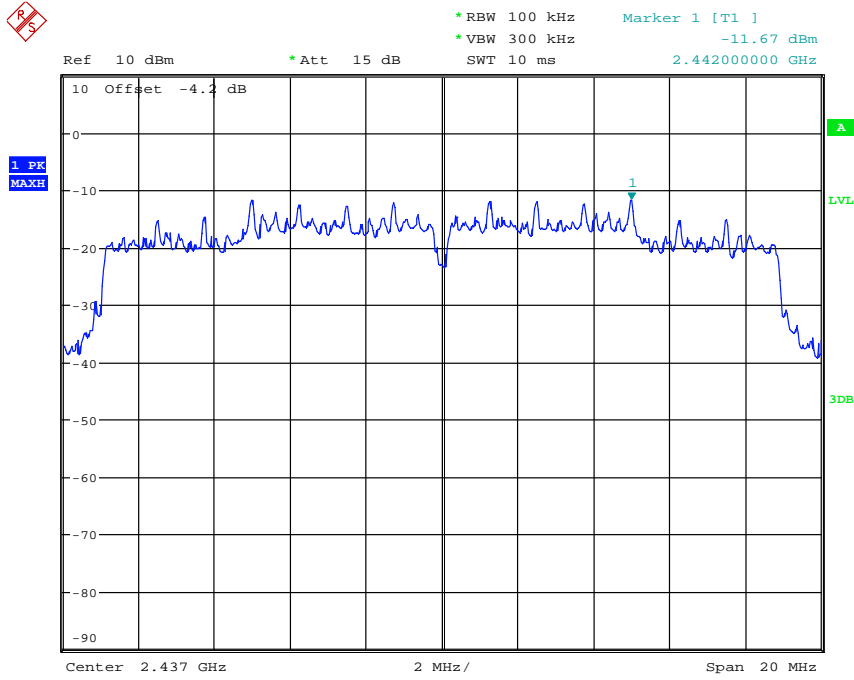


POWER DENSITY 802.11N 20MHZ CH01

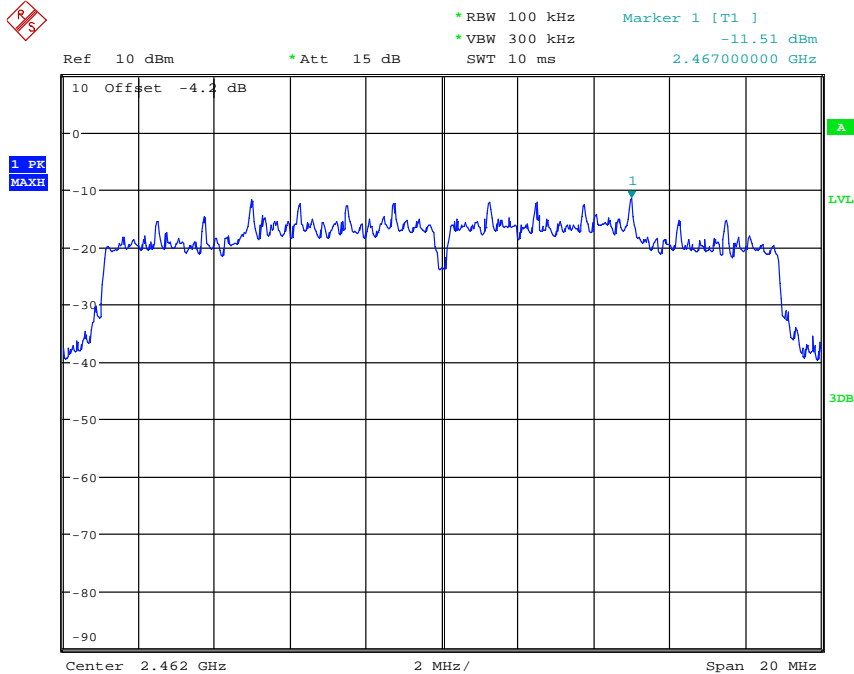
Date: 22.MAY.2013 08:06:52



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 20MHZ CH06
Date: 22.MAY.2013 08:07:41

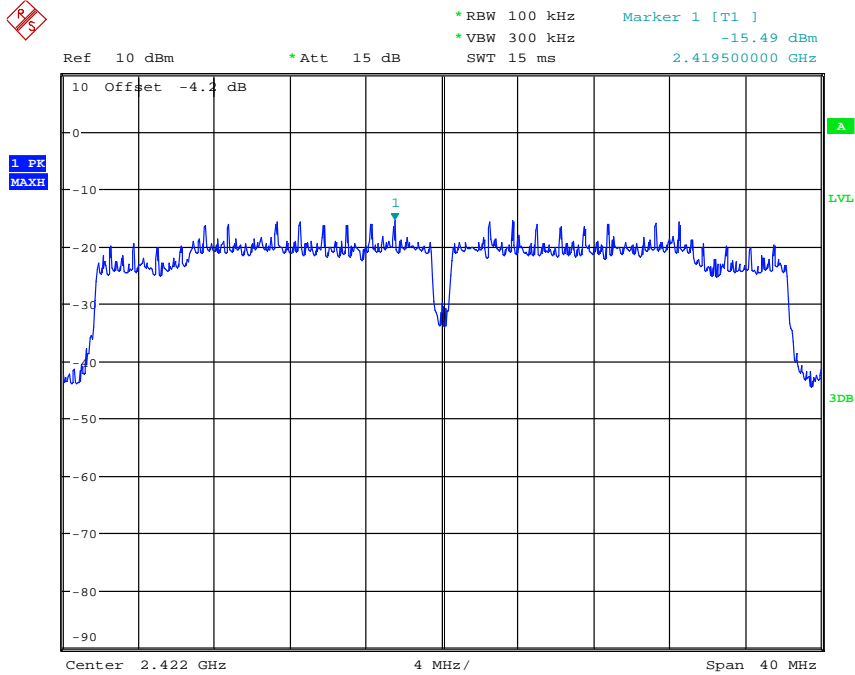


POWER DENSITY 802.11N 20MHZ CH11
Date: 22.MAY.2013 08:08:20

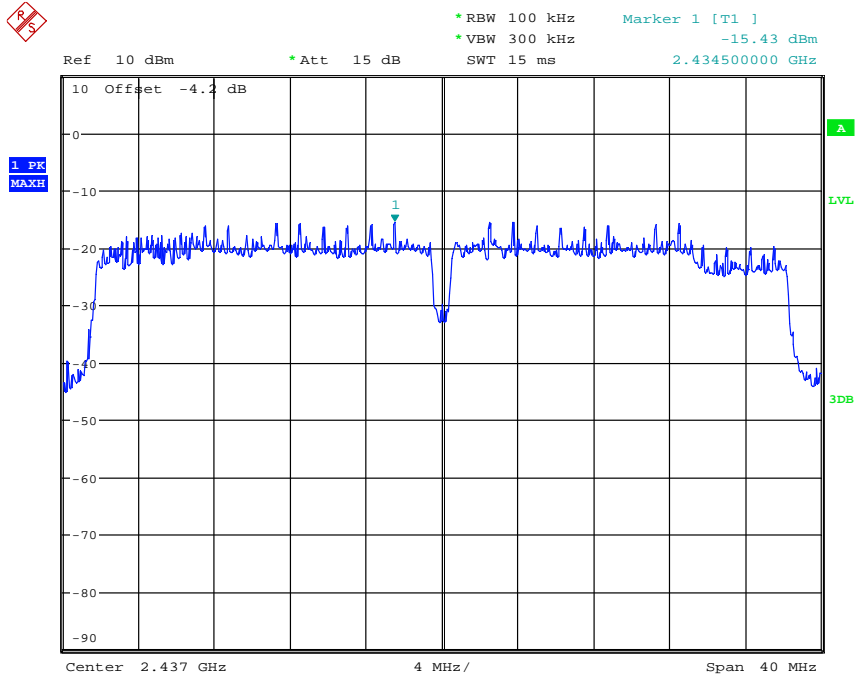


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Mode G



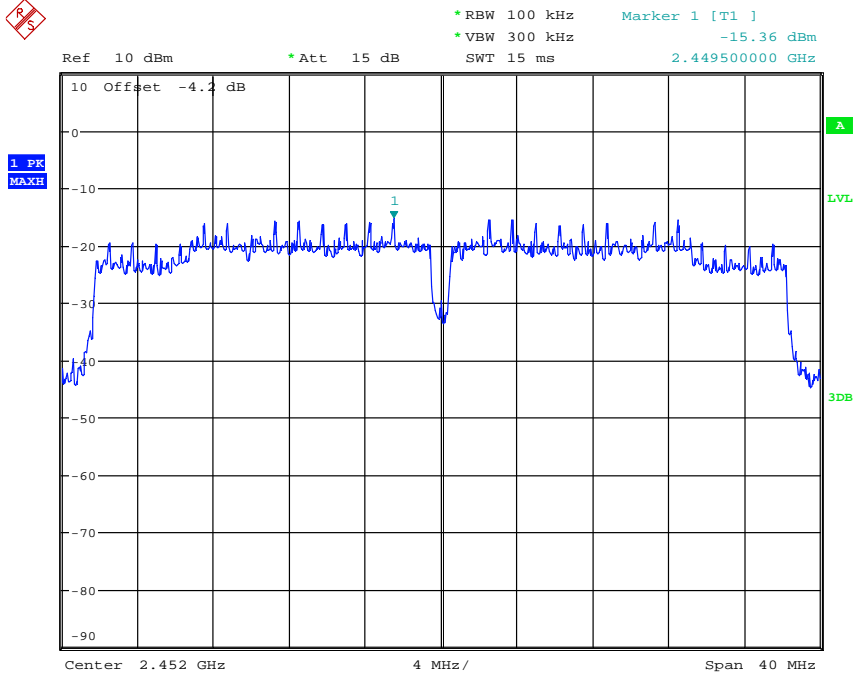
POWER DENSITY 802.11N 40MHZ CH01
Date: 22.MAY.2013 08:13:51



POWER DENSITY 802.11N 40MHZ CH04
Date: 22.MAY.2013 08:14:35

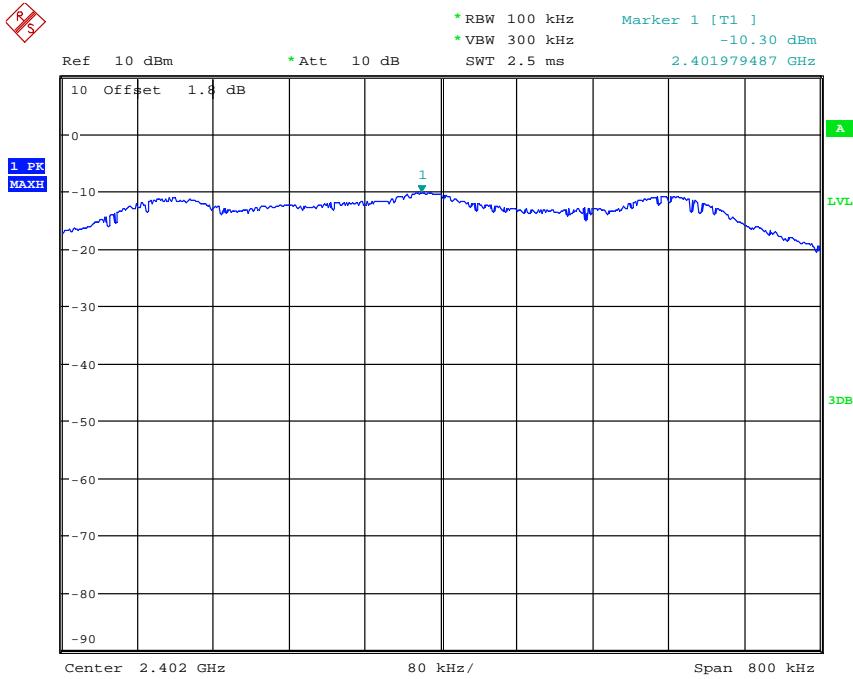


Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY 802.11N 40MHZ CH07
Date: 22.MAY.2013 08:15:40

BT 4.0 Mode J

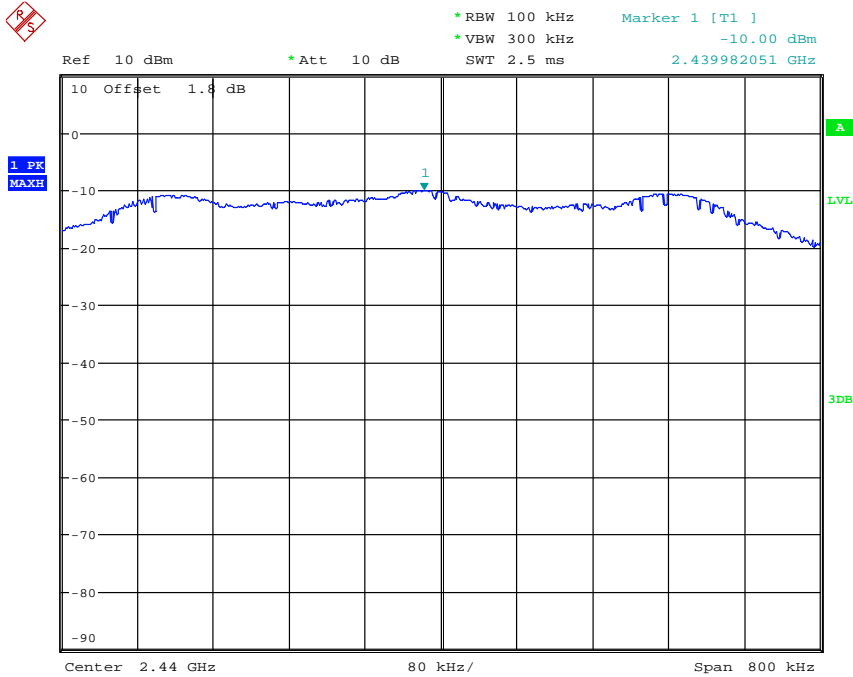


POWER DENSITY BT4.0 CH00
Date: 22.MAY.2013 12:03:50

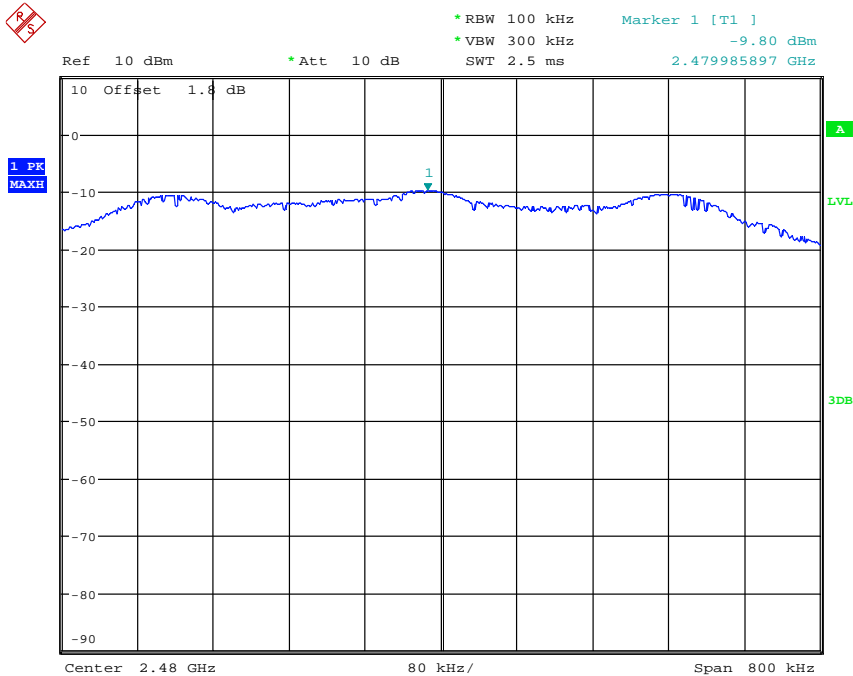


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10



POWER DENSITY BT4.0 CH19
Date: 22.MAY.2013 12:08:42



POWER DENSITY BT4.0 CH39
Date: 22.MAY.2013 12:10:32



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

Port A	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	0.02	0.02	0.03	-16.29	-16.46	-15.75
802.11n 40MHz	0.01	--	0.01	-19.41	--	-19.28
802.11n 20MHz(2.4)	0.06	0.06	0.05	-12.41	-12.51	-12.63
802.11n 40MHz	0.02	0.02	0.03	-16.23	-16.25	-15.80
Port B	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	0.02	0.02	0.03	-16.50	-16.31	-15.51
802.11n 40MHz	0.02	--	0.01	-17.91	--	-19.37
802.11n 20MHz(2.4)	0.06	0.07	0.07	-12.01	-11.67	-11.51
802.11n 40MHz	0.03	0.03	0.03	-15.49	-15.43	-15.36
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(5.8)	0.04	0.04	0.06	-13.98	-13.98	-12.22
802.11n 40MHz	0.03	--	0.02	-15.23	--	-16.99
802.11n 20MHz(2.4)	0.12	0.13	0.12	-9.21	-8.86	-9.21
802.11n 40MHz	0.05	0.05	0.06	-13.01	-13.01	-12.22

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

3.12 Radiated Emission from Digital Part

FCC Rule: 15.109

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 003, ETSTW-RE 030, ETSTW-RE 055,
ETSTW-RE 064, ETSTW-RE 111

Explanation: Please refer to FCC 15B test report no.: T121217W01-D.

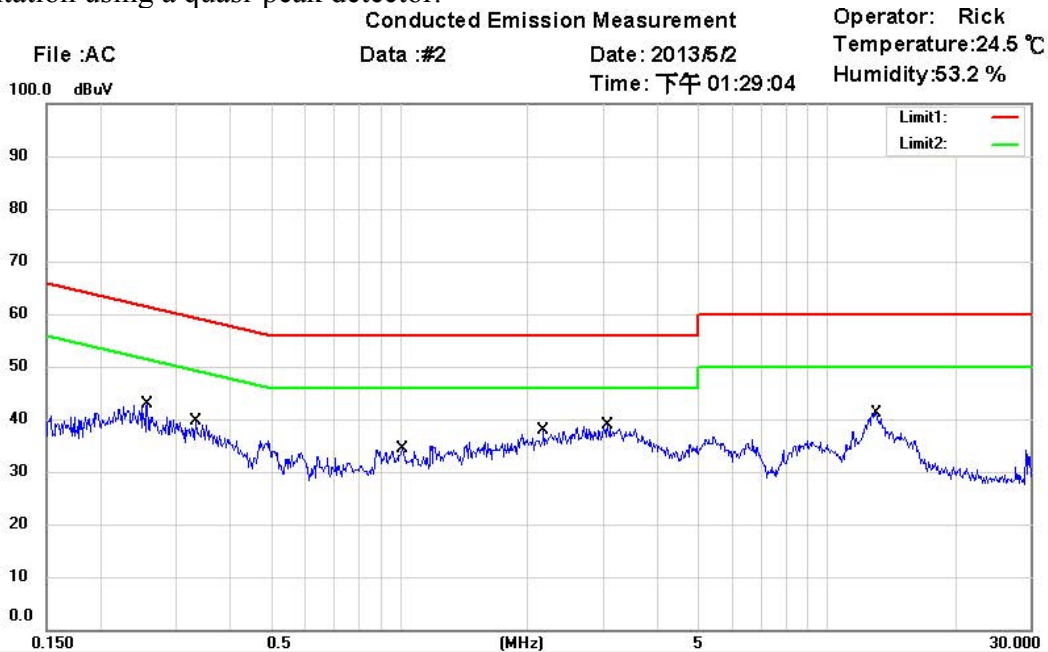


Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10

3.13 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



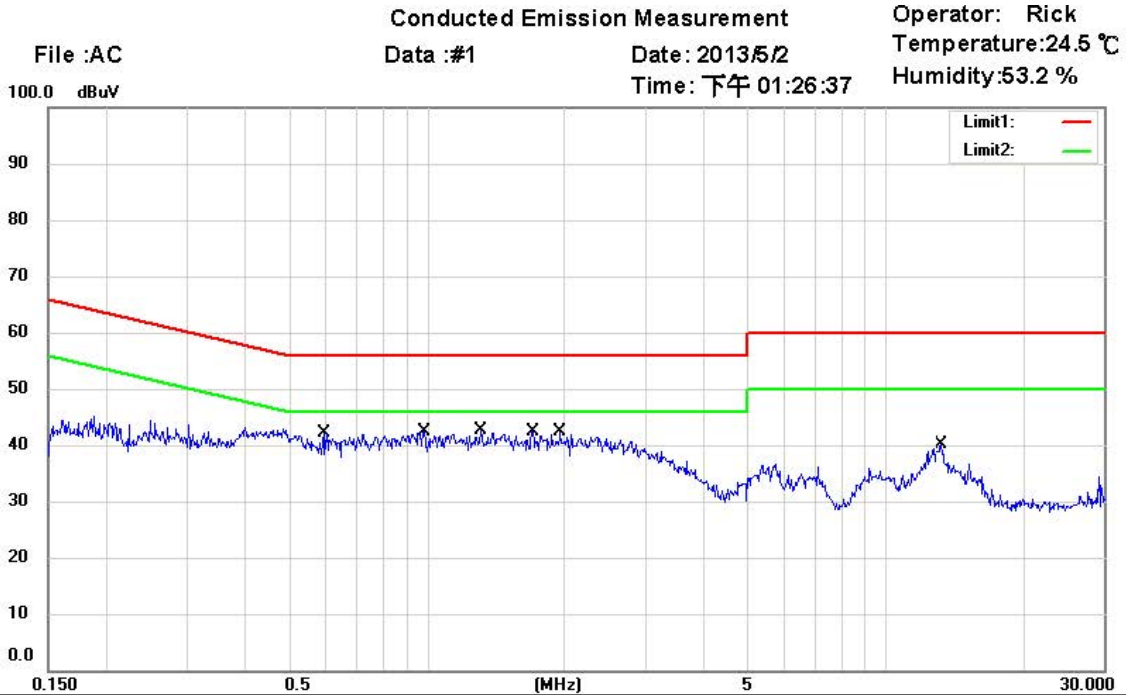
Site : Open Area Test Site
 Condition : FCC Part 15 Class B Conduction (QP) Phase: N
 EUT : W6M21304-13125 Power : 120VAC
 M/N: DR10
 Test Mode :
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.2570	23.85	QP	10.11	33.96	61.53	-27.57	
	0.2570	15.22	AVG	10.11	25.33	51.53	-26.20	
	0.3332	22.39	QP	10.11	32.50	59.37	-26.87	
	0.3332	10.59	AVG	10.11	20.70	49.37	-28.67	
	1.0107	19.09	QP	10.14	29.23	56.00	-26.77	
	1.0107	8.89	AVG	10.14	19.03	46.00	-26.97	
	2.1718	20.57	QP	10.19	30.76	56.00	-25.24	
	2.1718	13.93	AVG	10.19	24.12	46.00	-21.88	
	3.0605	21.56	QP	10.24	31.80	56.00	-24.20	
*	3.0605	15.39	AVG	10.24	25.63	46.00	-20.37	
	13.0000	24.11	QP	10.68	34.79	60.00	-25.21	
	13.0000	18.29	AVG	10.68	28.97	50.00	-21.03	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
 FCC ID: IR5DR10



Site : Open Area Test Site
 Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
 EUT : W6M21304-13125 Power : 120VAC
 M/N: DR10
 Test Mode :
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.5945	27.09	QP	10.12	37.21	56.00	-18.79	
*	0.5945	19.45	AVG	10.12	29.57	46.00	-16.43	
	0.9792	26.19	QP	10.14	36.33	56.00	-19.67	
	0.9792	19.11	AVG	10.14	29.25	46.00	-16.75	
	1.3168	25.78	QP	10.16	35.94	56.00	-20.06	
	1.3168	19.14	AVG	10.16	29.30	46.00	-16.70	
	1.6993	25.56	QP	10.17	35.73	56.00	-20.27	
	1.6993	19.21	AVG	10.17	29.38	46.00	-16.62	
	1.9558	25.24	QP	10.19	35.43	56.00	-20.57	
	1.9558	19.06	AVG	10.19	29.25	46.00	-16.75	
	13.2500	21.73	QP	10.83	32.56	60.00	-27.44	
	13.2500	15.89	AVG	10.83	26.72	50.00	-23.28	

Note

1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty = ±1.60 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21304-13125-C-1
FCC ID: IR5DR10

Limits:

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006, ETSTW-RE 064,
ETSTW-RE 045