FCC PART 15 SUBPART C TEST REPORT

for

Bluetooth Speaker

Model No.: BTSP-V1

FCC ID: 2ABUR1BBTB002

of

Applicant: AIFA TECHNOLOGY CORP.

Address: No.230, Sec. 2, Bade Rd., Fengshan Dist., Kaohsiung City 83053,

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.: W6M21401-13794-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C. TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

TABLE OF CONTENTS

1 GE	ENERAL INFORMATION		2
1.1	Notes		2
1.2	Testing laboratory	••••••	
1.2.1	Location		3
1.2.2	Details of accreditation sta	itus	3
1.3	Details of approval holder		3
1.4	Application details		4
1.5	General information of Te	st item	4
1.6	Test standards		5
2 TE	CHNICAL TEST		6
2.1	Summary of test results	•••••	6
2.2	Test environment		
2.3			
2.4	General Test Procedure		
3 TE	ST RESULTS (ENCLOSUR	E)	11
3.1	Peak Output Power (trans	mitter)	12
3.2		Requirements	
3.3		issions	
3.4		issions in restricted Bands	
3.5		•••••	
3.6	•	tion	
3.7		iencies	
3.7.1		Hopping Sequence	
3.7.2		equences to other transmitters	
3.7.3		Capability	
3.8	Time of Occupancy (Dwell	l Time)	27
3.9	20dB Bandwidth		33
3.9.1	System Receiver Input Bar	ndwidth	36
3.10	Band-edge Compliance of	RF Emissions	37
3.11	Radiated Emissions from 	Receiver Section of Transceiver	42
3.12	Power Line Conducted En	nission	45
Append	ix		47



FCC ID: 2ABUR1BBTB002 **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 is 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.

Tester:

February 21, 2014 Robert Ren

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

February 21, 2014 Kevin Wang

Date WTS Name Signature



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

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: AIFA TECHNOLOGY CORP.

Street: No.230, Sec. 2, Bade Rd., Fengshan Dist.,

Town: Kaohsiung City 83053,

Country: Taiwan (R.O.C.)
Telephone: 886-7-7777128
Fax: 886-7-7777407



FCC ID: 2ABUR1BBTB002 **1.4 Application details**

Date of receipt of test item: February 12, 2014

Date of test: from December 16, 2013 to December 26, 2013

1.5 General information of Test item

Type of test item: Bluetooth Music Player

Model Number: BTSP-V1

Multi-listing model number: BTB-02, BTSP-V2

Brand Name: AIFA

Photos: see Annex

Technical data

Frequency band: 2402 - 2480 MHz

Frequency (ch A): 2402 MHz Frequency (ch B): 2441 MHz Frequency (ch C): 2480 MHz

<u>Transmitter</u> <u>Unom</u>

Normal Mode

Power (ch 0): Conducted: 1.74 dBm Power (ch 39): Conducted: 2.42 dBm Power (ch 78): Conducted: 1.89 dBm

EDR Mode

Power (ch 0): Conducted: 0.22 dBm Power (ch 39): Conducted: 0.96 dBm Power (ch 78): Conducted: 0.41 dBm

Power supply: Charged Voltage: 5.0 VDC

Lithium Battery: 3.7 VDC

Operation modes: duplex

Modulation Type: GFSK $\cdot \pi / 4DQPSK \cdot 8DPSK$

Antenna Type: PCB antenna

Antenna gain: 1.76 dBi



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002 Host device: none

Classification:

Fixed Device	
Mobile Device (Human Body distance > 20cm)	
Portable Device (Human Body distance < 20cm)	\boxtimes
Modular Radio Device	

Manufacturer: (if applicable)

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

Additional information: ./.

1.6 Test standards

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

FCC ID: 2ABUR1BBTB002

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 3 were ascertained in the course of the tests	

2.2 Test environment

performed.

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply Charged Voltage: 5.0 VDC

Lithium Battery: 3.7 VDC

Extreme conditions parameters: test voltage : -- extreme

min : -- V max : -- V



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

2.3 Test Equipment List

No.	No. Test equipment		Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2013/9/2	2014/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Functi	on Test
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function	on Test
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2013/7/10	2014/7/9
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2013/10/28	2014/10/27
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2013/9/2	2014/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2013/9/2	2014/9/1
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Functi	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Functi	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2013/10/15	2014/10/14
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2013/7/3	2014/7/2
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-te	st 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	2013/5/31	2014/5/30
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	2013/11/27	2014/11/26
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function	on Test
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function	on Test
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2013/10/7	2014/10/6
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2013/10/11	2014/10/10
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	2013/12/04	2014/12/03
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2013/12/27	2014/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10 2015/1/0	
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Functi	on test
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2013/6/28	2014/6/27
ETSTW-RE 125	5GHz Notch filter	5NSL11- 5200/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

ETSTW-RE 126	5GHz Notch filter	5NSL11-	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 127	RF Switch Box	5800/E221.3-O/O RFS-01	None	WTS	2013/3/4	2014/3/3
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent		st Use
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2013/10/7	2014/10/6
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849- 822/851-40 /12+9SS	3	WI	2014/1/10	2015/1/09
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748- 1743/1752-32/5SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5 -1875.5/1884.5- 32/5SS	3	WI	2014/1/10	2015/1/09
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1- 904.25-50/8SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2013/9/18	2014/9/17
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	2013/10/11	2014/10/10
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2013/10/11	2014/10/10
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	2013/11/27	2014/11/26
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2013/6/20	2014/6/19
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version E	ETS-03A1

FCC ID: 2ABUR1BBTB002

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a $50\mu H$ 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. The ambient, temperature of the UUT was 23°C with a humidity of 40 %.

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 $dB\mu V$) 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 $20 \text{ dB}\mu\text{V} + 10.36 \text{ dB} + 6 \text{ dB} = 36.36 \text{ dB}\mu\text{V/m} \text{ (a)3m}$

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 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.



FCC ID: 2ABUR1BBTB002

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 (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.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	×	×	
Equivalent radiated Power	15.247(b)	×	×	
Spurious Emissions radiated – Transmitter operating	15.247(c)	×	×	
Spurious Emissions conducted – Transmitter operating	15.247			
Carrier Frequency Separation	15.247(a) (1)	×	×	
Number of Hopping Frequencies	15.247(a) (1)(i)	×	×	
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	×	×	
20 dB Bandwidth	15.247(a) (1)(i)	×	×	
Band-edge Compliance of RF Emission	15.247(c)	×	×	
Radiated Emission from Receiver Part	15.109	×	×	
Power Line Conducted Emission	15.207(a)	×	×	

The follows is intentionally left blank.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

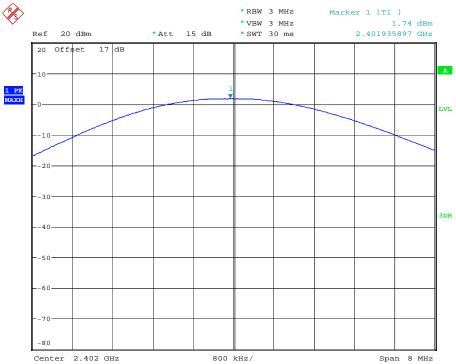
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

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).

Normal Mode

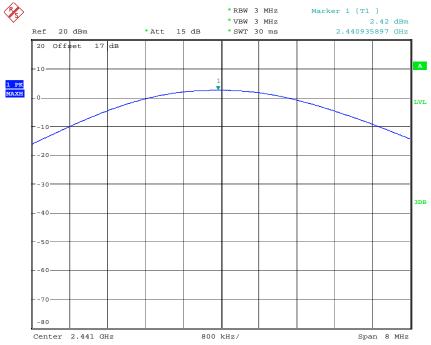


MAX OUTPUT POWER CH0
Date: 18.DEC.2013 16:54:36

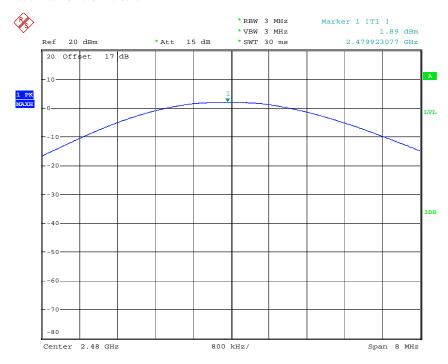


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



MAX OUTPUT POWER CH39
Date: 18.DEC.2013 16:55:07



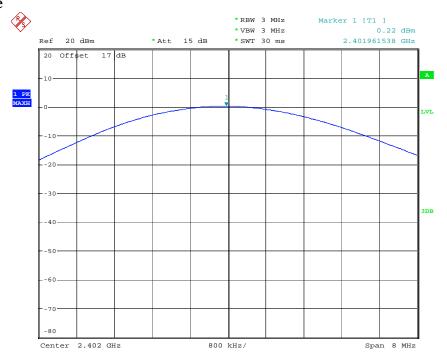
MAX OUTPUT POWER CH78
Date: 18.DEC.2013 16:55:27



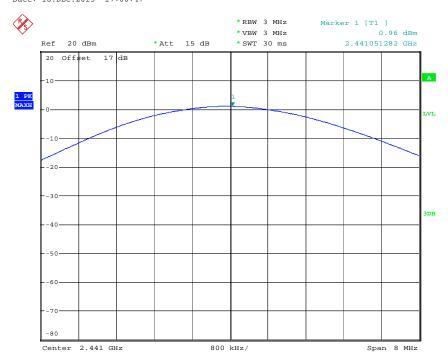
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

EDR Mode



MAX OUTPUT POWER CHO EDR MODE Date: 18.DEC.2013 17:00:47

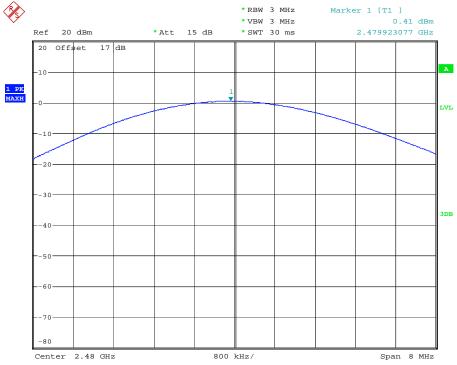


MAX OUTPUT POWER CH39 EDR MODE Date: 18.DEC.2013 17:01:19



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



MAX OUTPUT POWER CH78 EDR MODE Date: 18.DEC.2013 17:01:39

Maximum Peak Output Power

Limits:

Frequency	Number of hopping channels							
MHz	≥ 75	≥ 50	49 ≥ 25	74 ≥ 15				
902-928		30 dBm	24 dBm					
2400-2483.5 MHz	30 dBm			21 dBm				
5725-5850 MHz	30 dBm							

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

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

FCC ID: 2ABUR1BBTB002

3.2 RF Exposure Compliance Requirements

According to Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01 this spread spectrum transmitter is categorically excluded from routine environmental evaluation because of the low power level, where there is a high likelihood of compliance with RF exposure standards.

The antenna used for this Bluetooth transceiver module must not be co-located or operating in conjunction with any other antenna or transmitter.

3.3 Out of Band Radiated Emissions

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 below 1GHz:

Max. reading – 20 dB

Guidance on Measurement of FHSS 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." Here the correction was added to the limit instead subtracted from the reading.

Duty Cycle correction = 20 log (dwell time/100ms)
For frequencies above 1GHz (Peak measurements).

Limit = max. aver. reading-20dB +20dB(because Peak detector is used)

For frequencies above 1GHz (Average measurements).

Max. reading – 20 dB - duty cycle correction:

No duty cycle correction was added to the reading

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

3.4 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 26000 MHz.

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

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements) Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (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 960	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

"If the emission is pulsed, modify the unit for continues operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation." Here the correction was added to the limit instead subtracted from the reading.

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

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

 $54.0dB\mu V/m$

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

 $54.0 dB \mu V/m + 20 dB = 74 dB \mu V/m$

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 064

Explanation: See attached diagrams in appendix.

Worldwide Testing Services(Taiwan) Co., Ltd.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

3.5 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))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to 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 an 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 "Marker-Delta-Method" or the "Duty-Cycle Correction Factor".

Summary table with radiated data of the test plots

Model: BTSP-V1 Date: 2013/12/19

Mode: TX CH0 Temperature: $^{\circ}C$ 24 Engineer: Roy

Humidity: Table Ant. Frequency Factor Result Limit Margin Reading Detector Degree High (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m)(dB) (Deg.) (cm) 239,9398 29.07 13.69 42.76 46.00 -3.24 95 100 peak 356.5731 22.48 QP 17.10 39.58 46.00 -6.42 300 100

60

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree	Ant. High (cm)
(IVIIIZ)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dD)	(Deg.)	(CIII)
4801.6030	45.29		0.44	45.73		74.00	54.00	-28.27	170	100
7206.0000	42.12		4.01	46.13		74.00	54.00	-27.87	85	100
9608.0000	35.28	-	9.14	44.42		74.00	54.00	-29.58	120	100
12010.0000	34.17		13.41	47.58		74.00	54.00	-26.42	295	100

Polarization: Vertical

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	25.52	QP	13.62	39.14	43.50	-4.36	100	100
156.3527	22.98	peak	15.05	38.03	43.50	-5.47	215	100



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin	Table Degree	Ant. High
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4804.0000	42.74		0.45	43.19		74.00	54.00	-30.81	240	100
7206.0000	41.88		4.01	45.89		74.00	54.00	-28.11	110	100
9608.0000	35.82		9.14	44.96		74.00	54.00	-29.04	45	100
12010.0000	35.20		13.41	48.61		74.00	54.00	-25.39	150	100

Mode: TX CH39

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
239.9398	29.11	peak	13.69	42.80	46.00	-3.20	140	100
356.5731	22.41	QP	17.10	39.51	46.00	-6.49	30	100

Frequency (MHz)		ding uV)	Factor (dB)	(dBu	2 @3m V/m)		@3m V/m)	Margin (dB)	Table Degree	Ant. High (cm)
(IVIIIE)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(ub)	(Deg.)	(CIII)
4882.0000	42.50	-	0.63	43.13		74.00	54.00	-30.87	75	100
7323.0000	41.58	-	4.24	45.82	-	74.00	54.00	-28.18	200	100
9764.0000	35.92	-	9.61	45.53	-	74.00	54.00	-28.47	145	100
12205.0000	34.08		14.88	48.96		74.00	54.00	-25.04	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)
	127.1944	25.51	QP	13.62	39.13	43.50	-4.37	105	100
1	156.3527	23.24	peak	15.05	38.29	43.50	-5.21	235	100

Eraguanay	Rea	ding	Factor	Result	: @3m	Limit	@3m	Morgin	Table	Ant. High
Frequency (MHz)	(dB	uV)	(dB)	(dBu	V/m)	(dBu	V/m)	Margin (dB)	Degree	(cm)
(WITIZ)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(ub)	(Deg.)	(CIII)
4882.0000	42.17		0.63	42.80		74.00	54.00	-31.20	310	100
7323.0000	42.43		4.24	46.67		74.00	54.00	-27.33	180	100
9764.0000	36.23		9.61	45.84		74.00	54.00	-28.16	160	100
12205.0000	33.95		14.88	48.83		74.00	54.00	-25.17	275	100

Mode: TX CH78

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
156.3526	25.73	peak	15.05	40.78	43.50	-2.72	270	100
352.6854	22.46	QP	17.00	39.46	46.00	-6.54	60	100



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Frequency (MHz)		ding uV)	Factor (dB)	Result (dBu	(@3m V/m)		@3m V/m)	Margin (dB)	Table Degree	Ant. High (cm)
(MHZ)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(db)	(Deg.)	(CIII)
4960.0000	45.37		1.10	46.47		74.00	54.00	-27.53	95	100
7440.0000	42.02		4.47	46.49	-	74.00	54.00	-27.51	220	100
9920.0000	35.46		9.65	45.11		74.00	54.00	-28.89	65	100
12400.0000	33.45		15.29	48.74		74.00	54.00	-25.26	320	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
127.1944	25.53	QP	13.62	39.15	43.50	-4.35	55	100
156.3527	21.99	peak	15.05	37.04	43.50	-6.46	205	100

Frequency (MHz)	(dB	ding uV)	Factor (dB)	(dBu	(2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	(dBu	@3m V/m)	Margin (dB)	Table Degree	Ant. High (cm)
4960.0000	Peak 43.54	Ave.	Corr. 1.10	Peak 44.64	Ave.	Peak 74.00	Ave. 54.00	-29.36	(Deg.) 70	100
7440.0000	42.00		4.47	46.47		74.00	54.00	-27.53	255	100
9920.0000	35.39		9.65	45.04		74.00	54.00	-28.96	55	100
12400.0000	33.28		15.29	48.57		74.00	54.00	-25.43	215	100

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 above 1GHz: $30-1000 \text{ MHz} = \pm 3.68 \text{ dB}$, $1-18 \text{ GHz} = \pm 5.37 \text{ dB}$, $18-40 \text{ GHz} = \pm 3.43 \text{ dB}$; 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.

All other not noted test plots do not contain significant test results in relation to the limits.

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

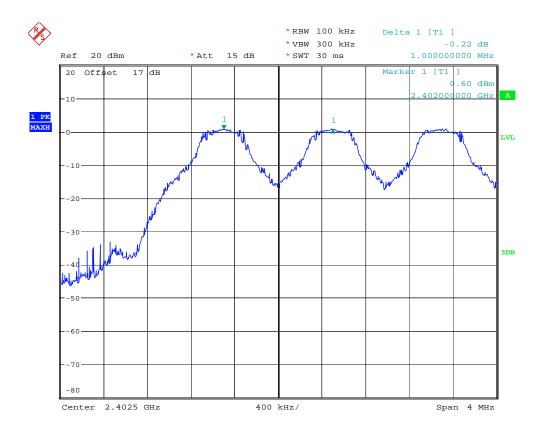
Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111,ETSTW-RE 064 ETSTW-RE 088, ETSTW-RE 018

FCC ID: 2ABUR1BBTB002

3.6 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.

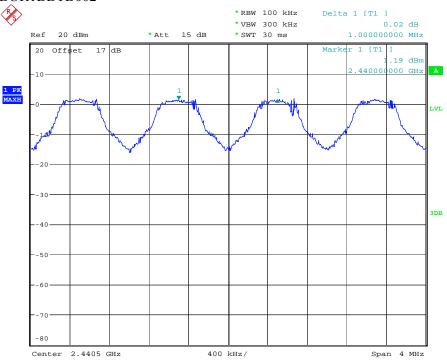


FREQUENCY SEPARATION CHO
Date: 18.DEC.2013 16:59:03

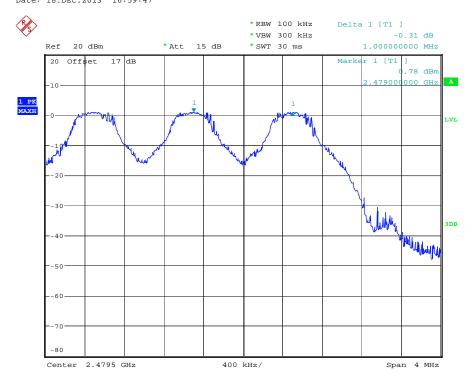


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



FREQUENCY SEPARATION CH39
Date: 18.DEC.2013 16:59:47



FREQUENCY SEPARATION CH78

Date: 18.DEC.2013 17:00:35



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Limits:

Frequency Range	Limits						
MHz	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

Worldwide Testing Services(Taiwan) Co., Ltd.

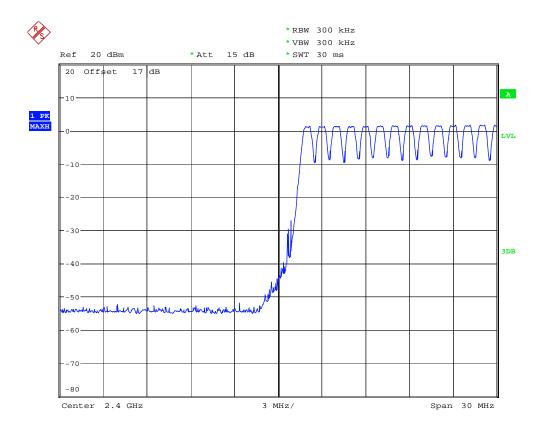


FCC ID: 2ABUR1BBTB002

3.7 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 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.

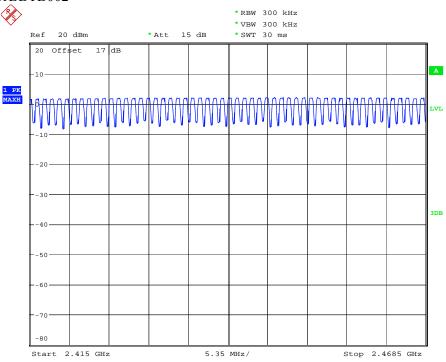


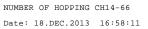
NUMBER OF HOPPING CH0-13 Date: 18.DEC.2013 16:56:23

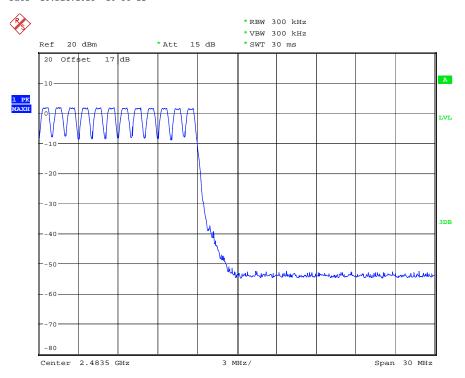


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002







NUMBER OF HOPPING CH67-78
Date: 18.DEC.2013 16:57:03



FCC ID: 2ABUR1BBTB002

Limits:

Frequency Range	Limit						
MHz	20dB Bandwidth	Number of Channels					
902-928 MHz	Bandwidth < 250 kHz	≥ 50					
902-928 MHZ	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

3.7.1 Pseudorandom Frequency Hopping Sequence

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

3.7.2 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.

3.7.3 System Receiver Hopping Capability

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

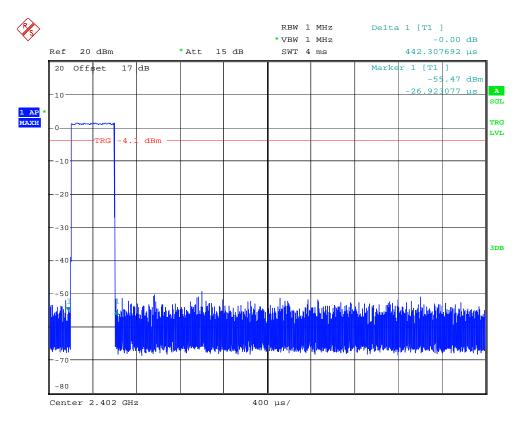
FCC ID: 2ABUR1BBTB002

3.8 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.

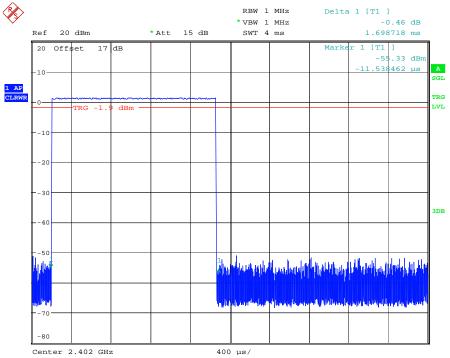


DWELL TIME CH0 DH1 (0.442ms * 320 events = 141.44ms)
Date: 18.DEC.2013 17:21:27

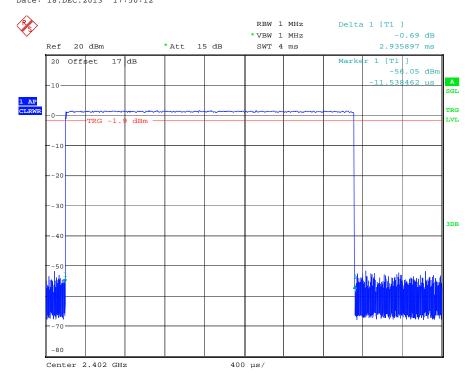


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



DWELL TIME CHO DH3 (1.698ms * 160 events = 271.68ms)
Date: 18.DEC.2013 17:50:12

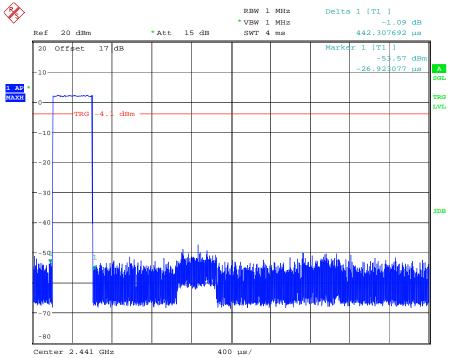


DWELL TIME CH0 DH5 (2.935 ms * 110 events = 322.85 ms) Date: 18.DEC.2013 17:51:56

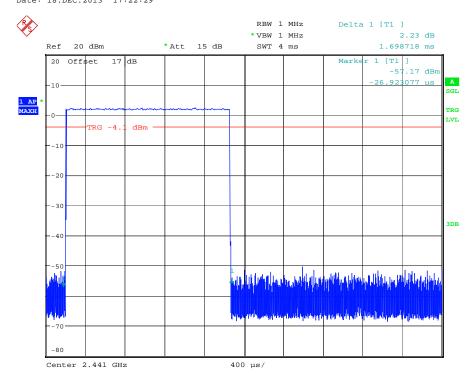


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



DWELL TIME CH39 DH1 (0.442 ms * 320 events = 141.44 ms) Date: 18.DEC.2013 17:22:29

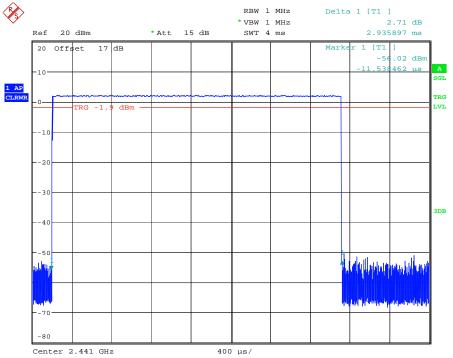


DWELL TIME CH39 DH3 (1.698ms * 160 events = 271.68ms) Date: 18.DEC.2013 17:27:05

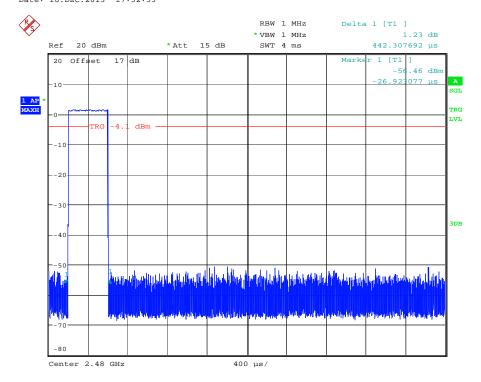


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



DWELL TIME CH39 DH5 (2.935ms * 110 events = 322.85ms)
Date: 18.DEC.2013 17:52:53

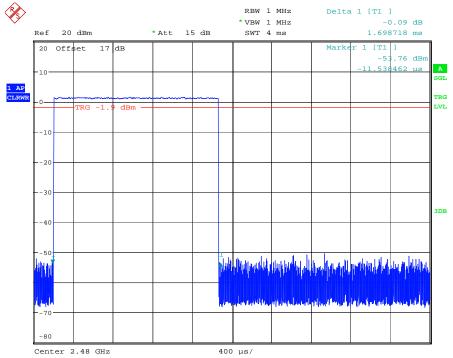


DWELL TIME CH78 DH1 (0.442ms * 320 events = 141.44ms)
Date: 18.DEC.2013 17:23:39

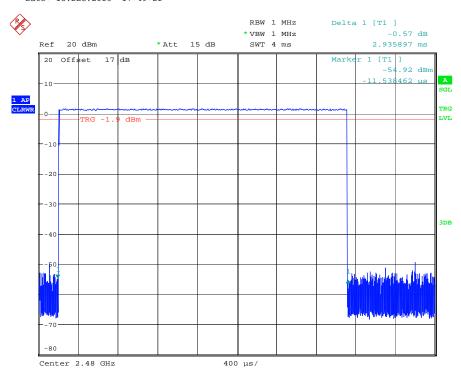


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



DWELL TIME CH78 DH3 (1.698ms * 160 events = 271.68ms)
Date: 18.DEC.2013 17:49:21



DWELL TIME CH78 DH5 (2.935ms * 110 events = 322.85ms)
Date: 18.DEC.2013 17:58:00



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Limits and measurement periods:

Frequency MHz	Number of channels	Measurement Periode	Limit	
902 – 928	≥50	20 s	0.4 s	
902 – 928	49 ≥ 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

Worldwide Testing Services(Taiwan) Co., Ltd.

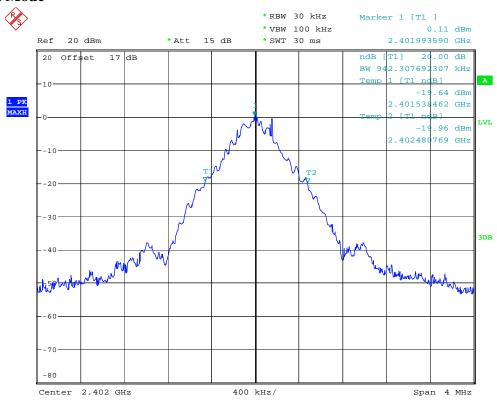
FCC ID: 2ABUR1BBTB002
3.9 20dB Bandwidth

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.

Normal Mode



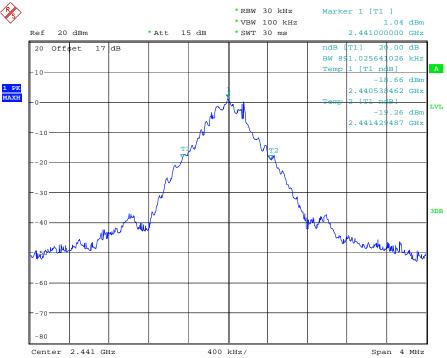
20DB BANDWIDTH CH0

Date: 18.DEC.2013 16:54:43



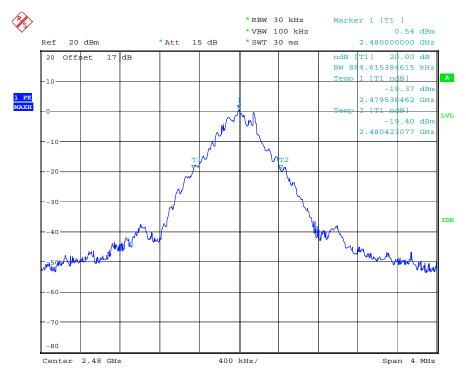
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



20DB BANDWIDTH CH39

Date: 18.DEC.2013 16:55:15



20DB BANDWIDTH CH78

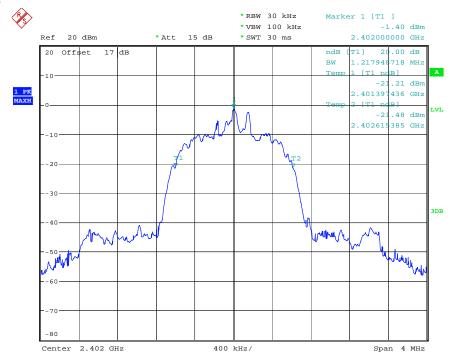
Date: 18.DEC.2013 16:55:35



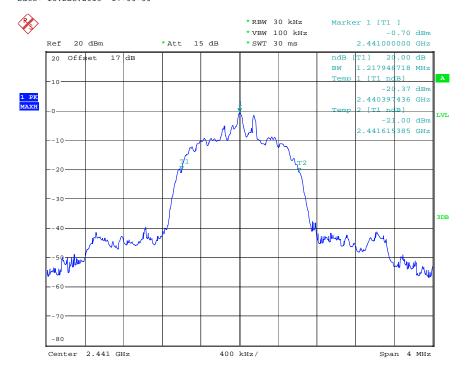
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

EDR Mode



20DB BANDWIDTH CH0 EDR MODE Date: 18.DEC.2013 17:00:56

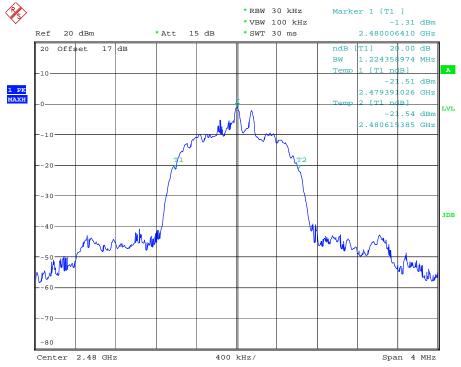


20DB BANDWIDTH CH39 EDR MODE Date: 18.DEC.2013 17:01:27



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



20DB BANDWIDTH CH78 EDR MODE Date: 18.DEC.2013 17:01:47

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

3.9.1 System Receiver Input Bandwidth

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

Registration number: W6M21401-13794-C-1

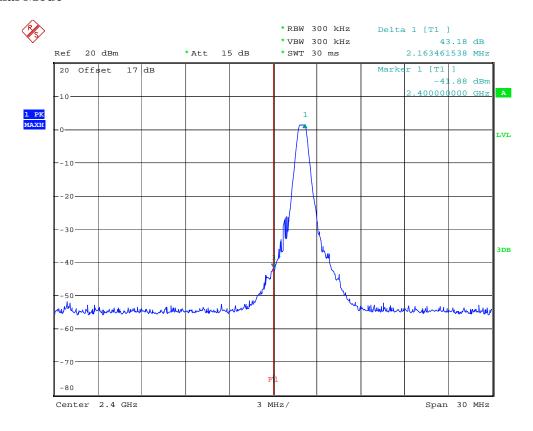
FCC ID: 2ABUR1BBTB002

3.10 Band-edge Compliance of RF Emissions

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.

Normal Mode



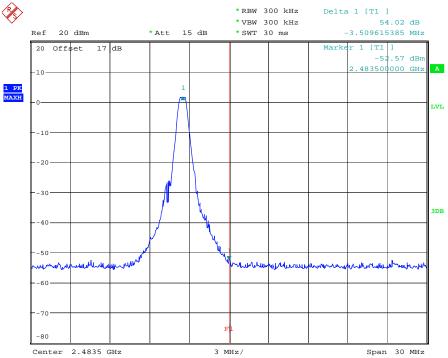
BANDEDGE CHO

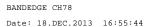
Date: 18.DEC.2013 16:54:55

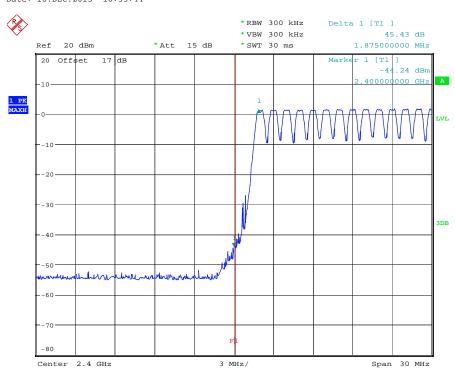


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002





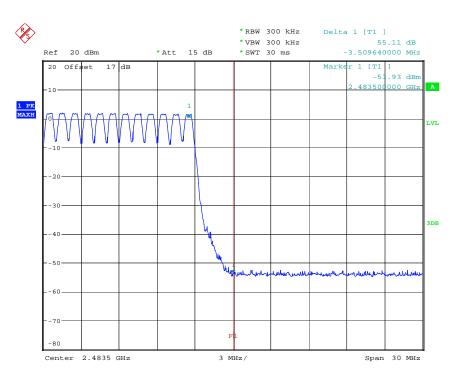


BANDEDGE CHO HOPPING MODE
Date: 18.DEC.2013 16:56:24



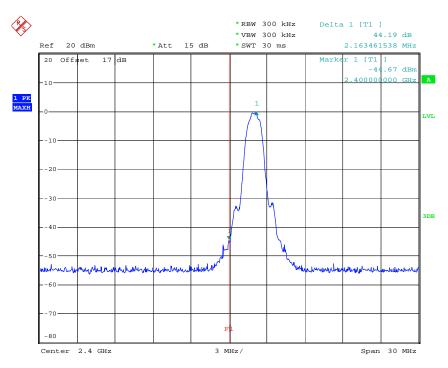
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



BANDEDGE CH78 HOPPING MODE Date: 18.DEC.2013 16:57:04

EDR Mode

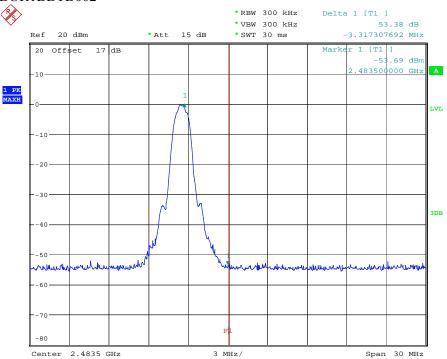


BANDEDGE CH0 EDR MODE
Date: 18.DEC.2013 17:01:03

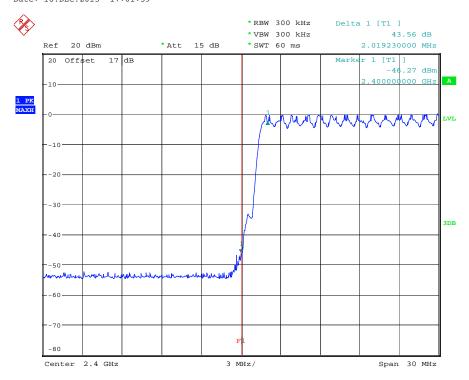


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



BANDEDGE CH78 EDR MODE
Date: 18.DEC.2013 17:01:59

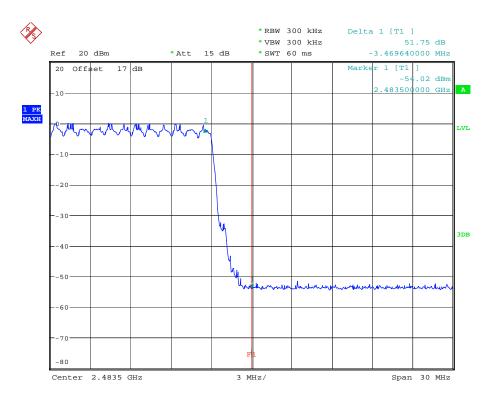


BANDEDGE CHO EDR HOPPING MODE Date: 18.DEC.2013 17:03:47



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



BANDEDGE CH78 EDR HOPPING MODE Date: 18.DEC.2013 17:05:31

Limits:

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

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



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

3.11 Radiated Emissions from Receiver Part

FCC Rule: 15.109

Summary table with radiated data of the test plots

Model: BTSP-V1 Date: 2013/12/19

Mode: RX CH0 Temperature: 24 °C Engineer: Roy

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)
156.3524	24.76	peak	15.05	39.81	43.50	-3.69	165	100
240.0225	29.91	QP	13.69	43.60	46.00	-2.40	100	100
355.9900	22.44	QP	17.09	39.53	46.00	-6.47	300	100
432.3847	19.06	peak	19.13	38.19	46.00	-7.81	290	100

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.	Result (dBu Peak	(2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4605.2100	43.25		0.09	43.34		74.00	54.00	-30.66	125	100
6541.0820	41.23	-	4.43	45.66		74.00	54.00	-28.34	295	100

Polarization: Vertical

-	orarreation.	, or trour							
	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	30.0000	21.95	peak	13.20	35.15	40.00	-4.85	260	100
	80.5411	27.24	peak	9.28	36.52	40.00	-3.48	185	100
	128.0140	25.52	QP	13.66	39.18	43.50	-4.32	70	100
	156.3524	22.26	peak	15.05	37.31	43.50	-6.19	335	100

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.	Result (dBu Peak	\circ		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4731.4630	42.68		0.30	42.98		74.00	54.00	-31.02	35	100
6877.7560	40.53		5.35	45.88		74.00	54.00	-28.12	100	100

Mode: RX CH39

Polarization: Horizontal

•	olulization.	Horizontal							
	Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	156.3526	23.96	peak	15.05	39.01	43.50	-4.49	325	100
	239.9398	29.89	QP	13.69	43.58	46.00	-2.42	170	100
	356.5731	22.42	QP	17.10	39.52	46.00	-6.48	85	100
	617.0540	15.34	peak	22.77	38.11	46.00	-7.89	230	100



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Frequency (MHz)	(dB	ding uV)	Factor (dB)	(dBu	(@3m V/m)	(dBu	@3m V/m)	Margin (dB)	Table Degree	Ant. High (cm)
(MHZ)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(-)	(Deg.)	(3-32)
4352.7050	43.14		-0.25	42.89		74.00	54.00	-31.11	305	100
6877.7560	40.24		5.35	45.59		74.00	54.00	-28.41	40	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	21.93	peak	13.20	35.13	40.00	-4.87	225	100
82.4850	28.39	peak	9.17	37.56	40.00	-2.44	140	100
127.1944	25.48	QP	13.62	39.10	43.50	-4.40	75	100
156.3527	22.63	peak	15.05	37.68	43.50	-5.82	310	100

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.		(2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4268.5370	42.83		-0.20	42.63		74.00	54.00	-31.37	290	100
6484.9700	41.28		4.20	45.48		74.00	54.00	-28.52	105	100

Mode: RX CH78

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree	Ant. High
(WITE) (GE	(======================================		()	(42 47 17 12 1)	(42 47 17 12 17	(3)	(Deg.)	(cm)
156.3526	25.75	peak	15.05	40.80	43.50	-2.70	190	100
239.9398	29.31	peak	13.69	43.00	46.00	-3.00	120	100
352.6854	26.59	peak	17.00	43.59	46.00	-2.41	45	100
500.4207	21.71	peak	20.21	41.92	46.00	-4.08	250	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree	Ant. High
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4030.0600	43.57		-0.57	43.00		74.00	54.00	-31.00	30	100
6330.6610	41.33		4.08	45.41		74.00	54.00	-28.59	155	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
82.4850	25.54	peak	9.17	34.71	40.00	-5.29	165	100
127.1944	25.01	peak	13.62	38.63	43.50	-4.87	315	100
156.3527	22.89	peak	15.05	37.94	43.50	-5.56	95	100
239.9400	23.87	peak	13.69	37.56	46.00	-8.44	200	100



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Frequency (MHz)		ding uV) Ave.	Factor (dB) Corr.		2 @3m V/m) Ave.		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4478.9580	43.05	Avc.	0.10	43.15		74.00	54.00	-30.85	170	100
7018.0360	41.71		4.39	46.10		74.00	54.00	-27.90	300	100

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 above 1GHz: 30-1000 MHz = \pm 3.68 dB, 1-18 GHz = \pm 5.37 dB, 18-40 GHz = \pm 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.

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	Field Strength	Field Strength		
(MHz)	(microvolts/meter)	(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 055, ETSTW-RE 064, ETSTW-RE 004, ETSTW-RE 030 ETSTW-RE 111



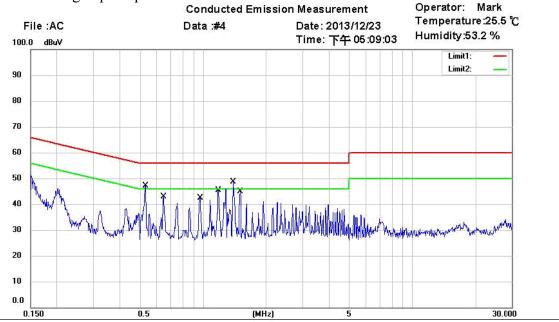
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

3.12 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.



Phase:

Power: 120VAC

Site: Chamber_03

Condition: FCC Part 15 Class B Conduction(QP)

EUT: W6M21401-13794

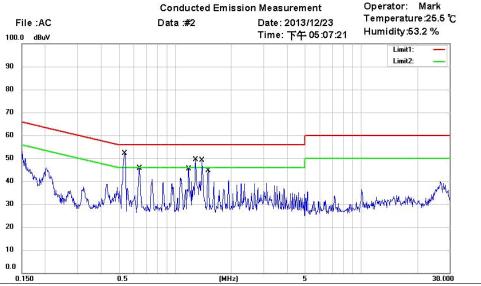
M/N: BTSP-V1
Test Mode:
Note:

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.5315	37.05	QP	10.12	47.17	56.00	-8.83	
:	0.5315	19.02	AVG	10.12	29.14	46.00	-16.86	
	0.6485	26.33	QP	10.13	36.46	56.00	-19.54	
	0.6485	10.40	AVG	10.13	20.53	46.00	-25.47	
110	0.9635	32.37	QP	10.14	42.51	56.00	-13.49	
	0.9635	18.75	AVG	10.14	28.89	46.00	-17.11	
	1.1795	31.61	QP	10.15	41.76	56.00	-14.24	
1 19	1.1795	17.31	AVG	10.15	27.46	46.00	-18.54	
*	1.3933	38.80	QP	10.16	48.96	56.00	-7.04	
	1.3933	22.42	AVG	10.16	32.58	46.00	-13.42	
- 19	1.4990	34.18	QP	10.16	44.34	56.00	-11.66	
- 15	1.4990	19.64	AVG	10.16	29.80	46.00	-16.20	



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction(QP)

EUT: W6M21401-13794

M/N: BTSP-V1
Test Mode:
Note:

Phase:		L1
Power:	120VAC	

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5360	41.17	QP	10.12	51.29	56.00	-4.71	
	0.5360	23.02	AVG	10.12	33.14	46.00	-12.86	
	0.6417	33.64	QP	10.13	43.77	56.00	-12.23	
	0.6417	16.43	AVG	10.13	26.56	46.00	-19.44	
	1.1795	31.51	QP	10.15	41.66	56.00	-14.34	
	1.1795	16.10	AVG	10.15	26.25	46.00	-19.75	
	1.2853	35.93	QP	10.15	46.08	56.00	-9.92	
7 14	1.2853	17.27	AVG	10.15	27.42	46.00	-18.58	
	1.3933	38.50	QP	10.16	48.66	56.00	-7.34	
20 00	1.3933	21.26	AVG	10.16	31.42	46.00	-14.58	
	1.4990	33.64	QP	10.16	43.80	56.00	-12.20	
	1.4990	17.99	AVG	10.16	28.15	46.00	-17.85	

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		

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 = ± 1.41 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.

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-CE 006, ETSTW-RE 064

Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Appendix

A. Measurement diagrams

Spurious Emissions radiated

B. Photos

- 1. External Photos
- 2. Internal Photos
- 3. Set Up Photo of Radiated Emission
- 4. Set Up Photo of Conducted Emission



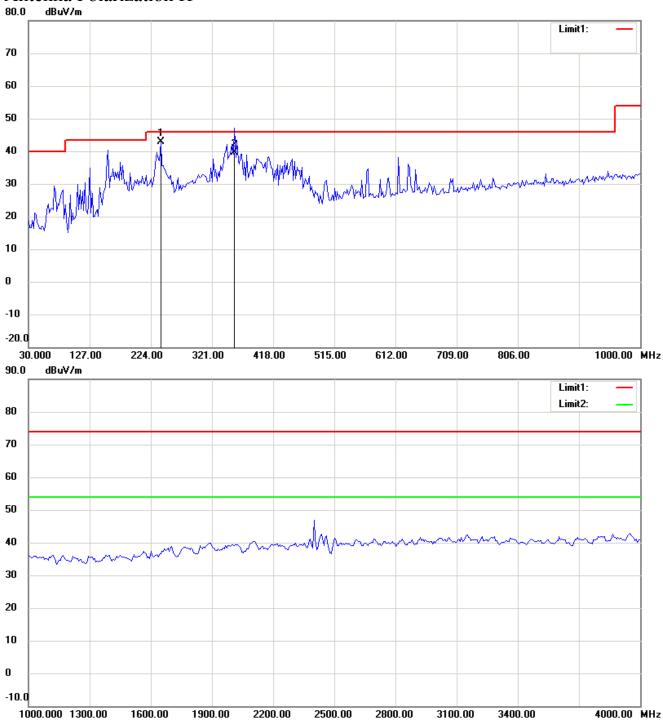
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Spurious Emissions radiated Transmitter

TX CH0

Antenna Polarization H

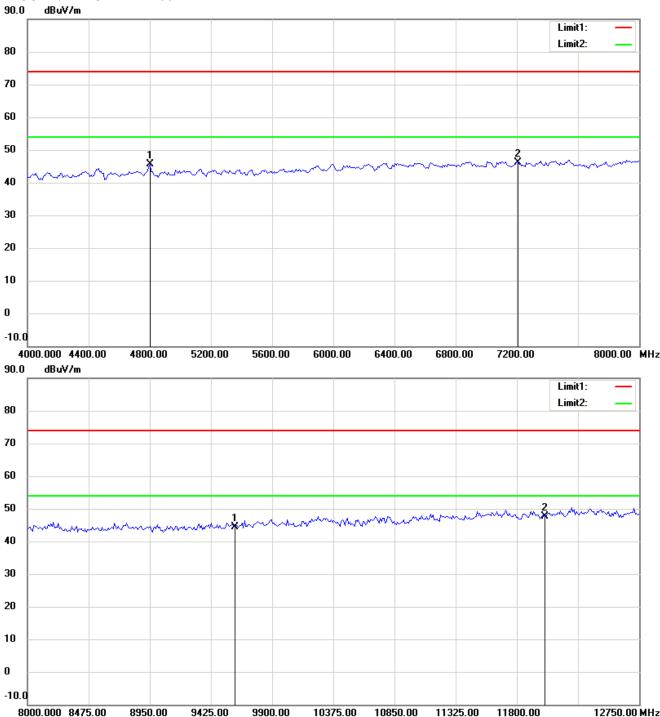


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

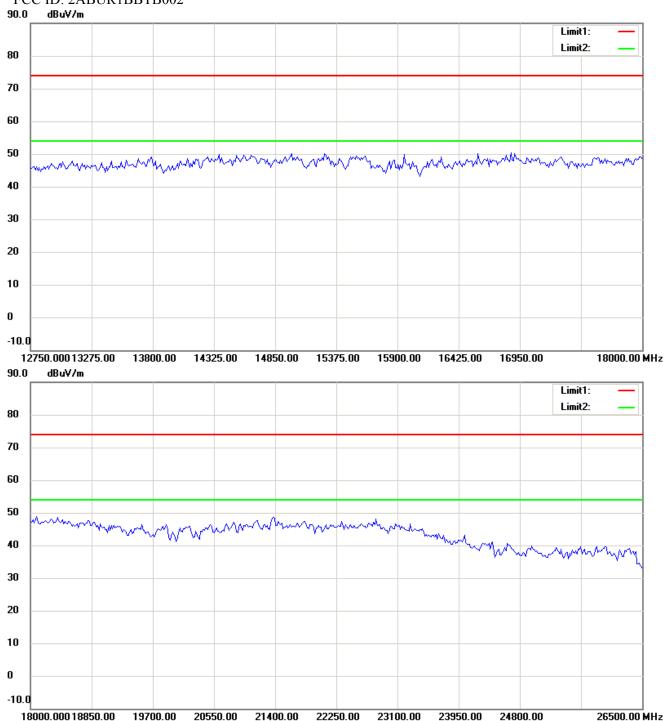


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

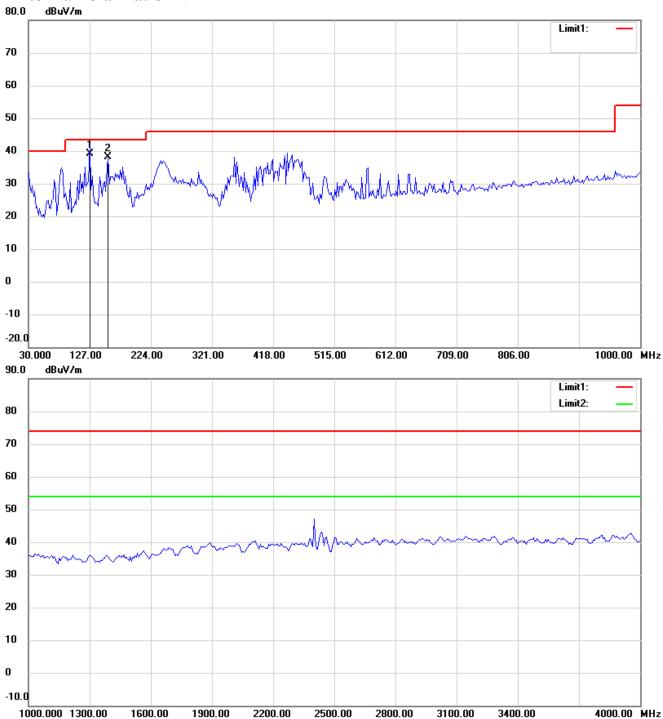


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002 Antenna Polarization V

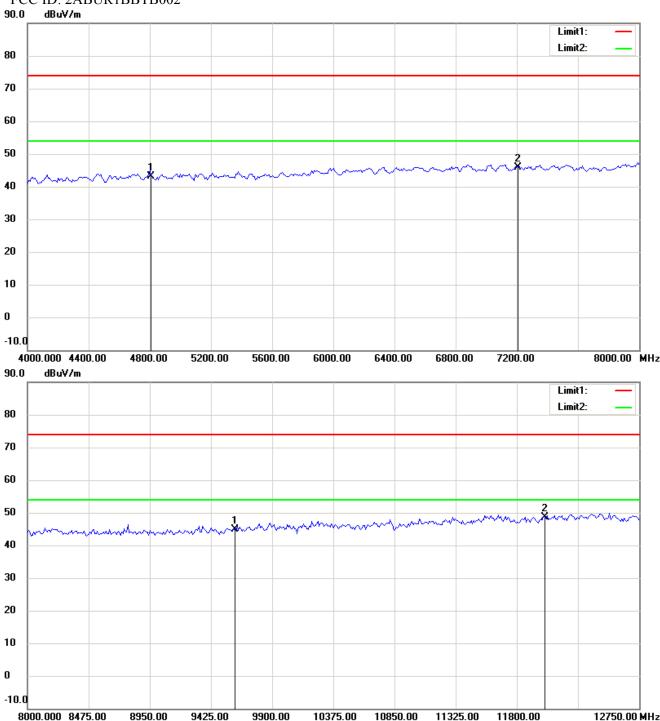


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

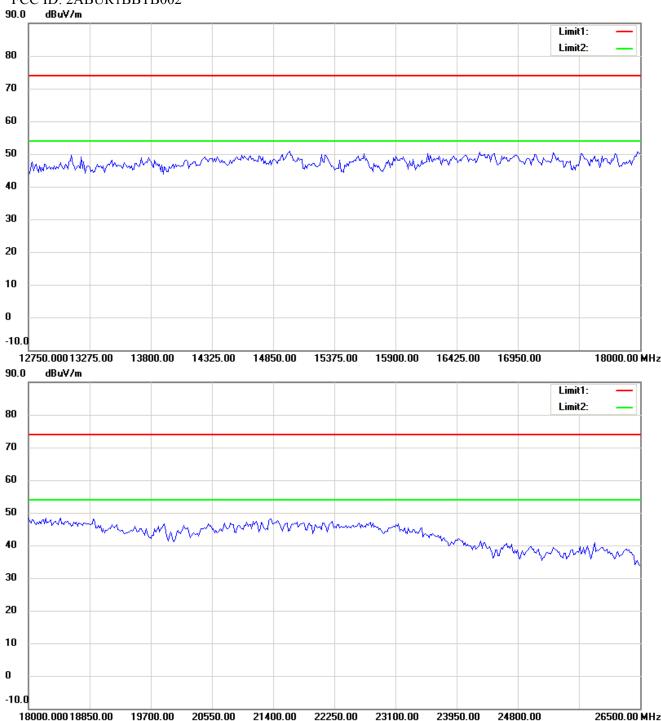


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

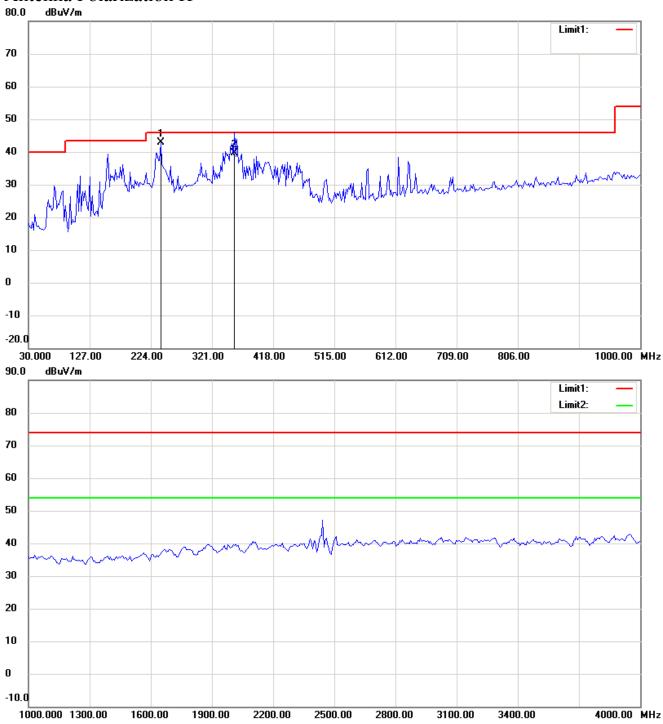


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

TX CH39

Antenna Polarization H

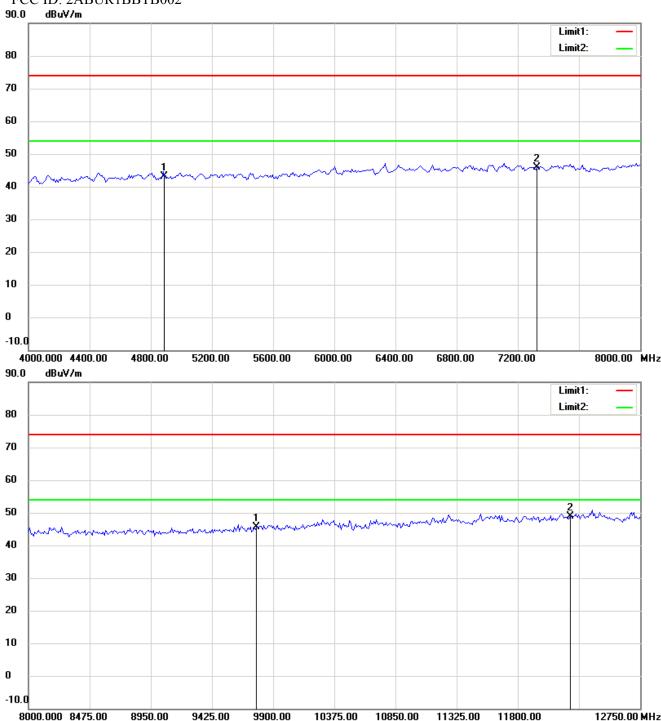


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

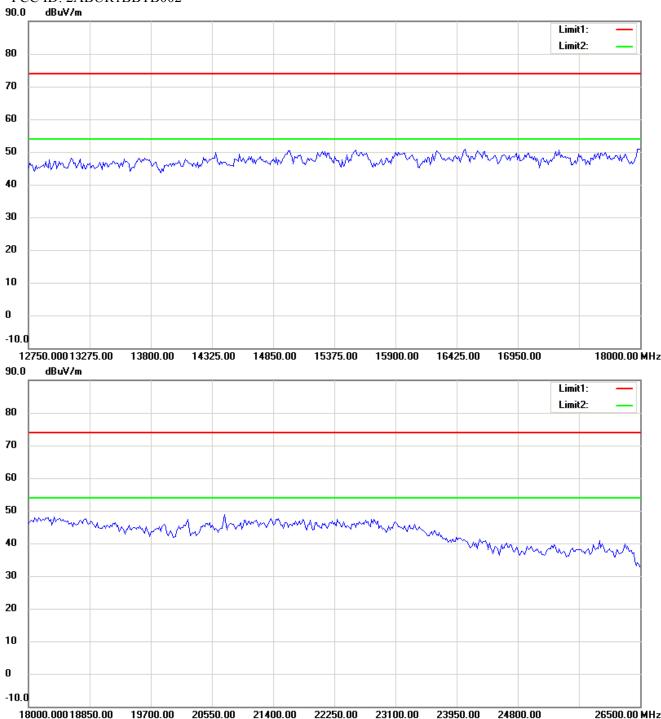


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

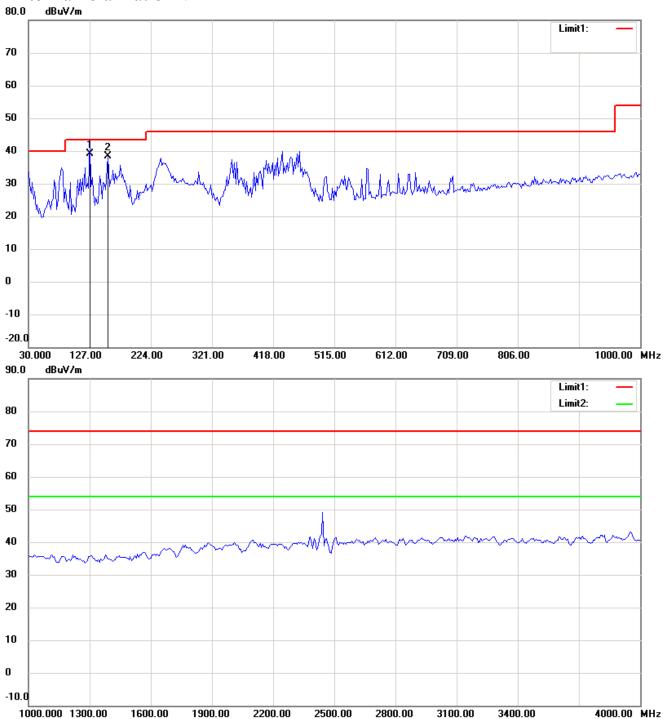


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002 Antenna Polarization V

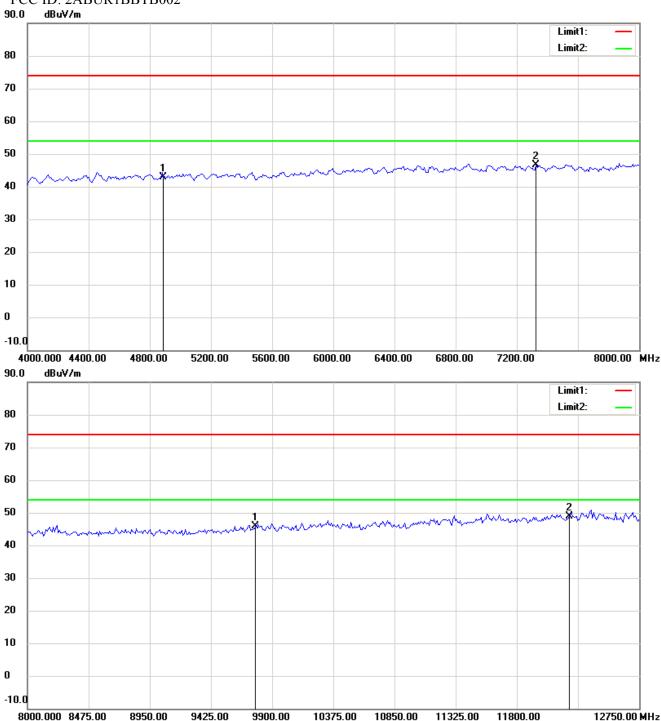


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

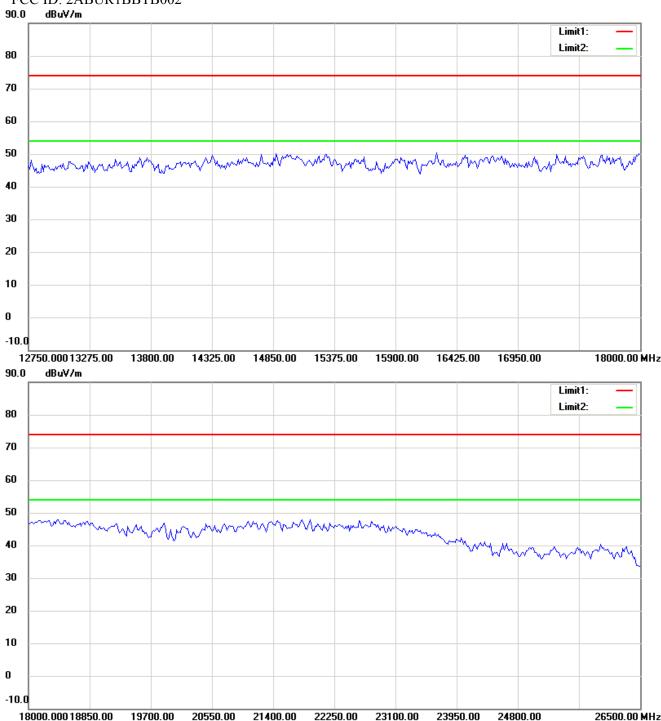


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

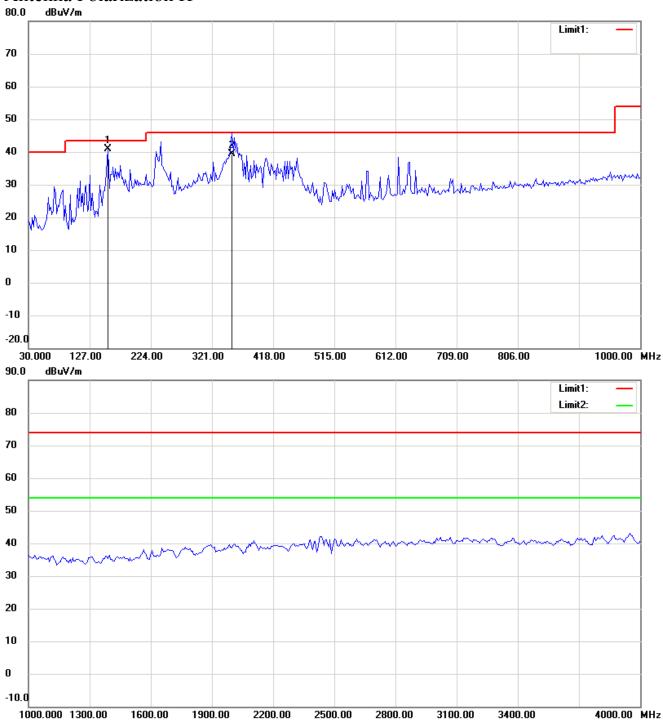


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

TX CH78

Antenna Polarization H

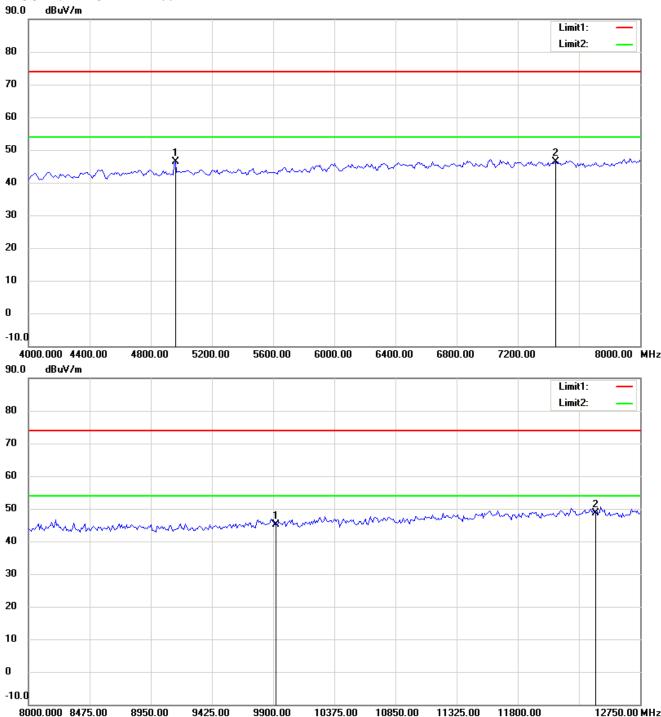


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

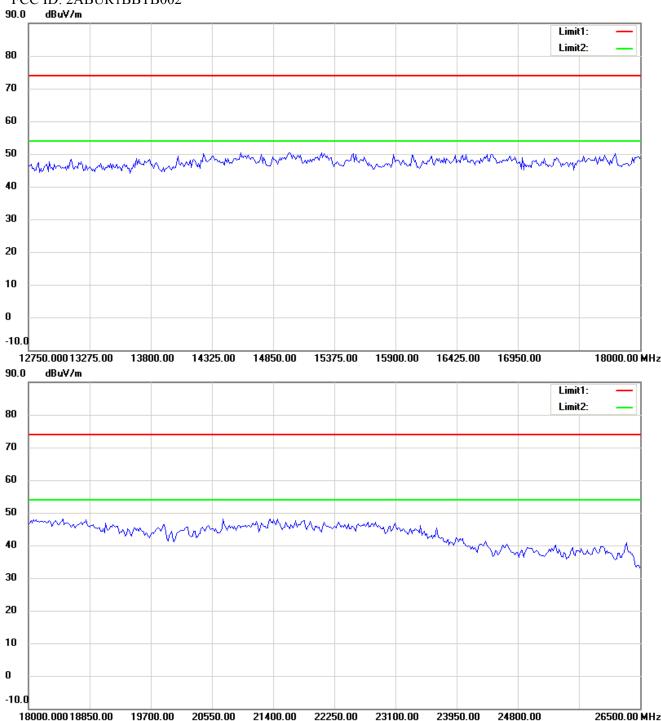


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

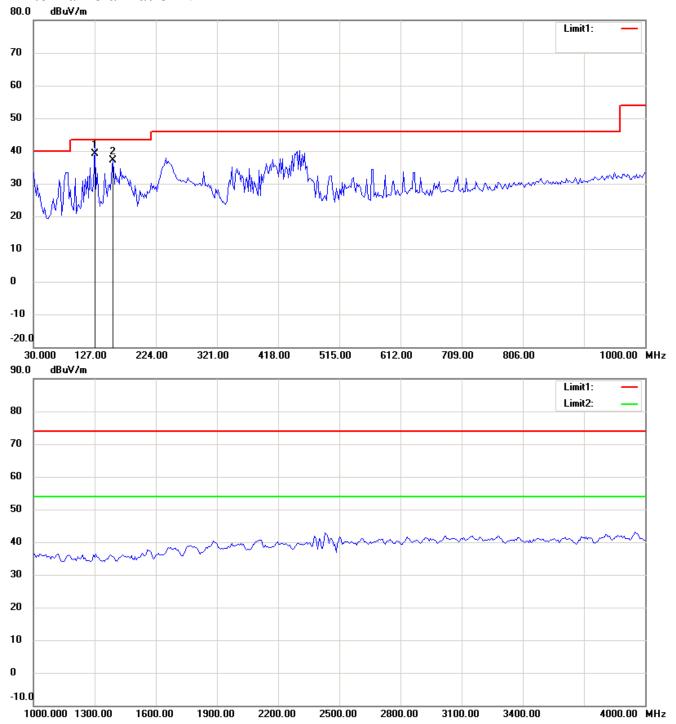


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002 Antenna Polarization V

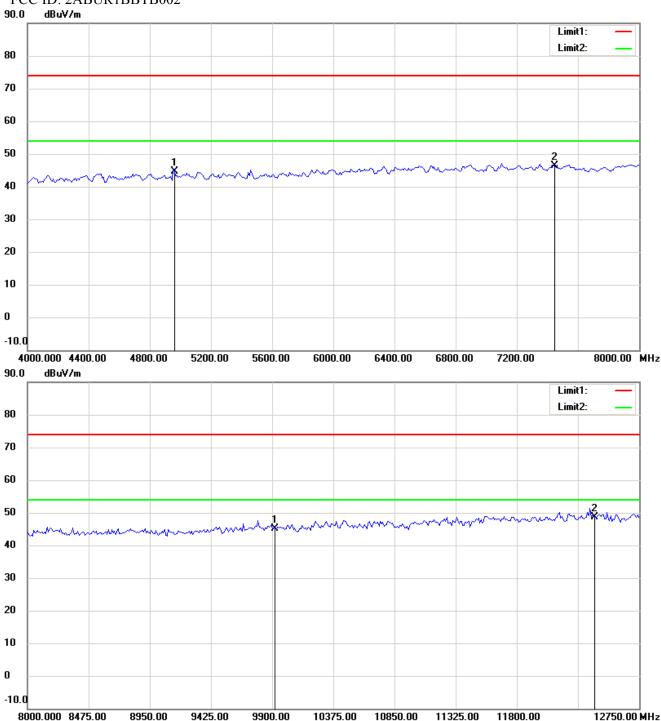


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

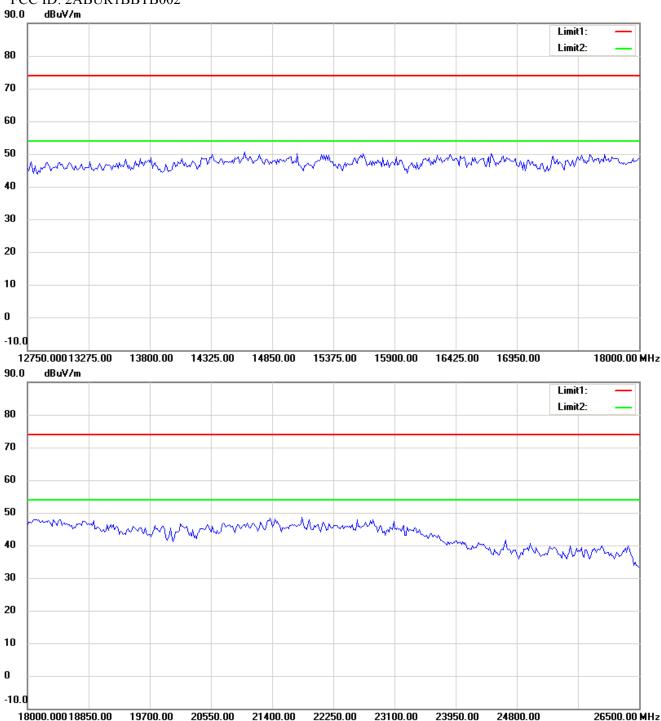


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



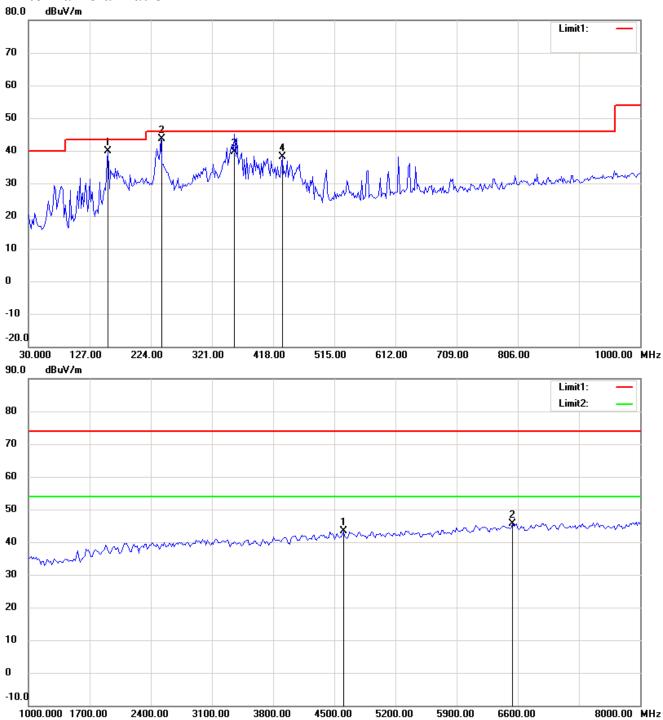
Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Spurious Emissions radiated Receiver

RX_CH0

Antenna Polarization H

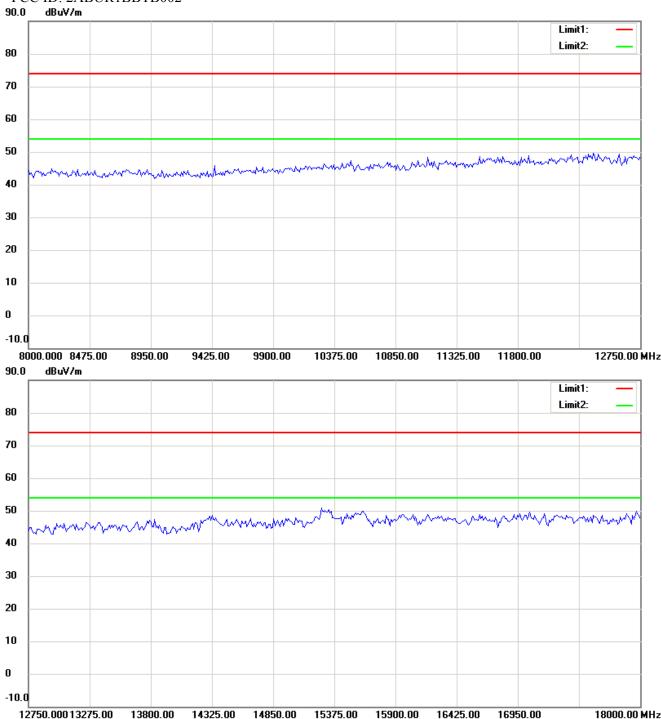


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

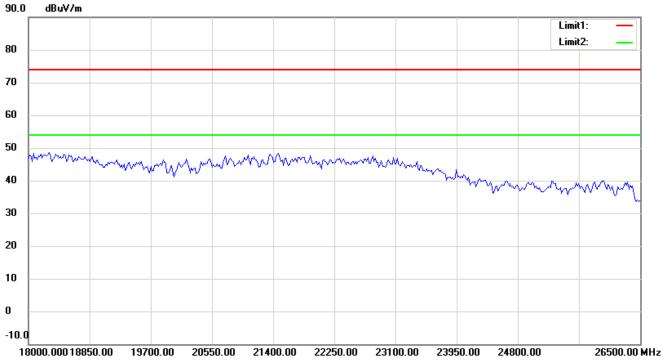


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

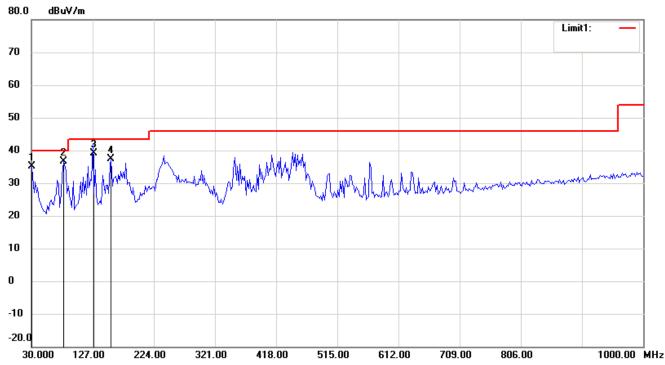


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



Antenna Polarization V

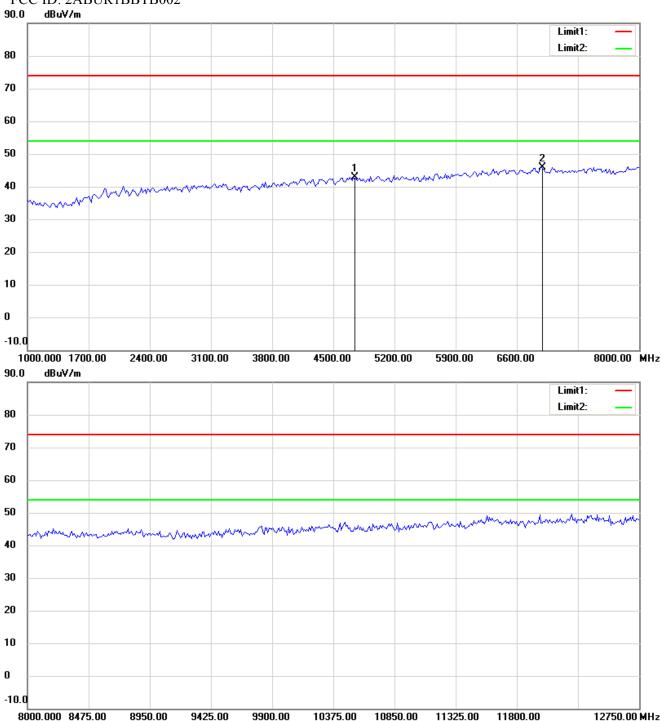


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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

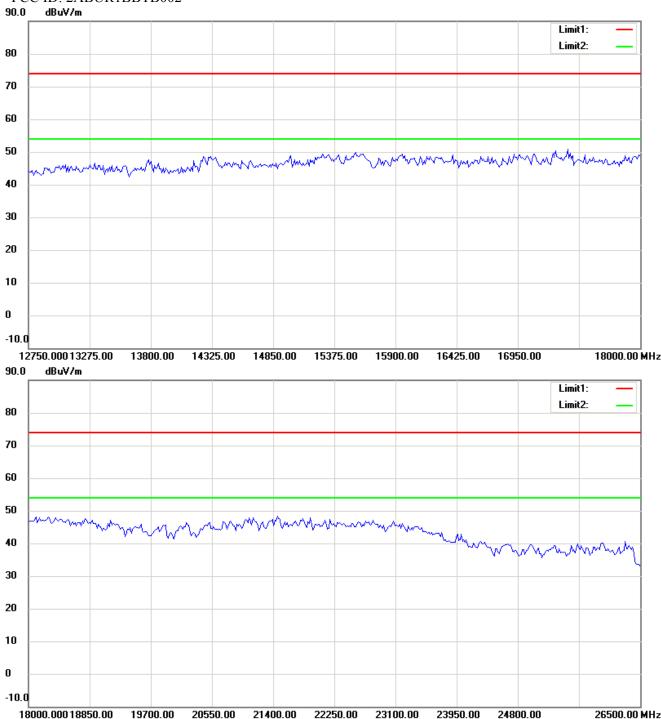


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



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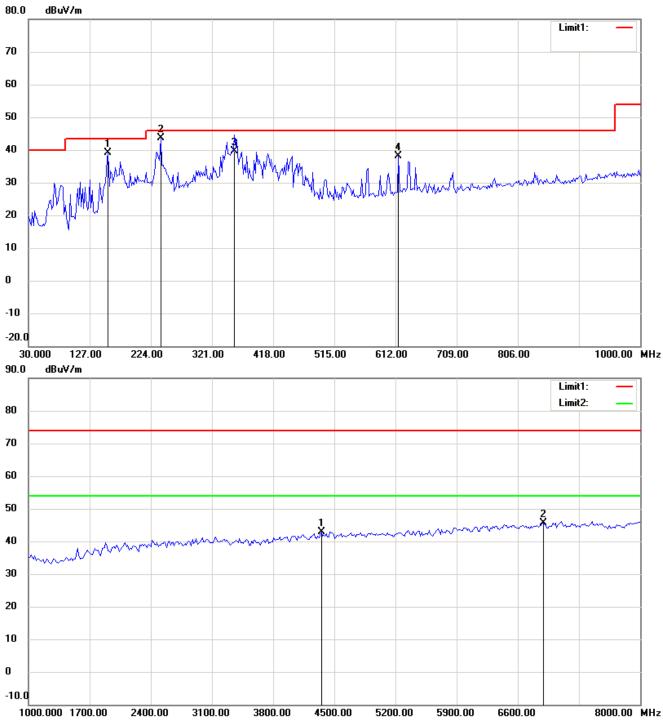


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

RX CH39

Antenna Polarization H

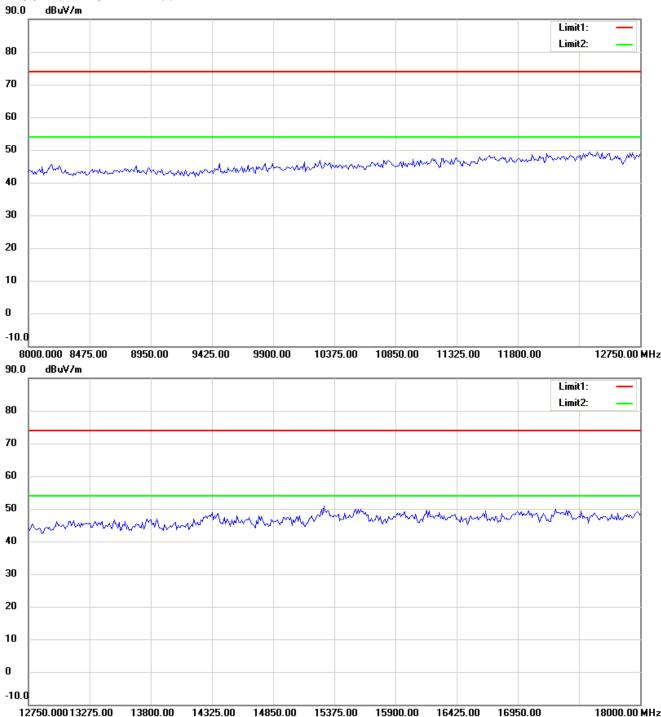


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

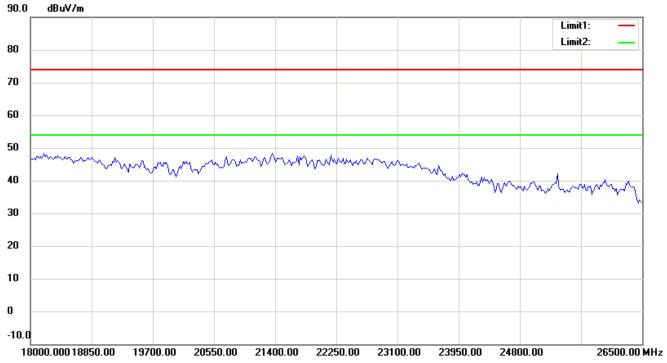


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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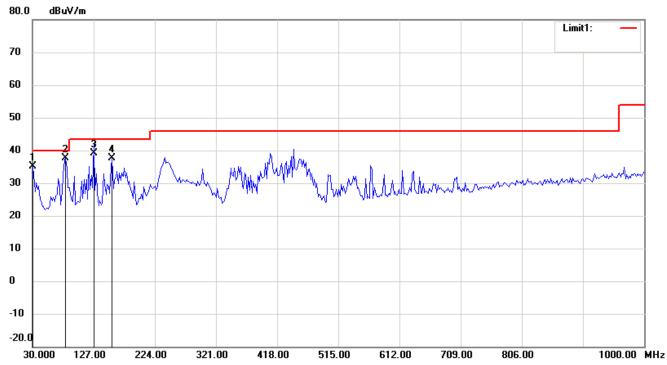


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



Antenna Polarization V

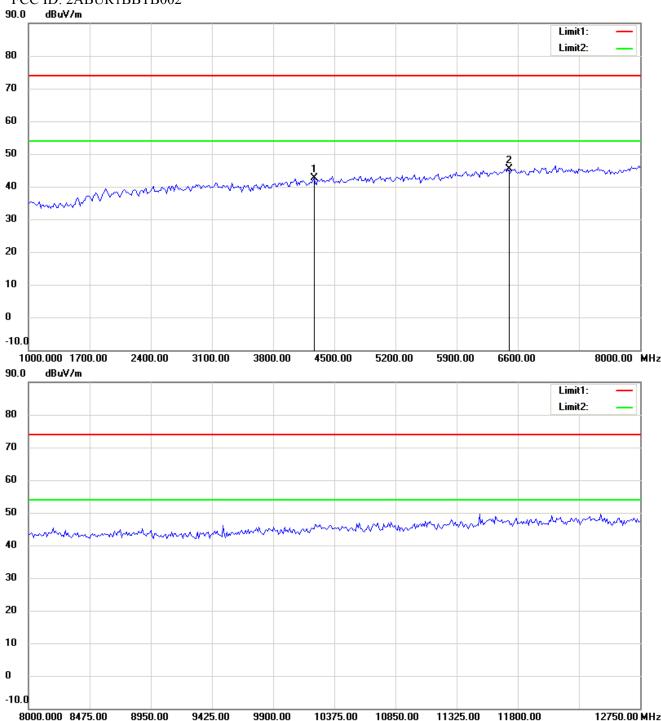


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

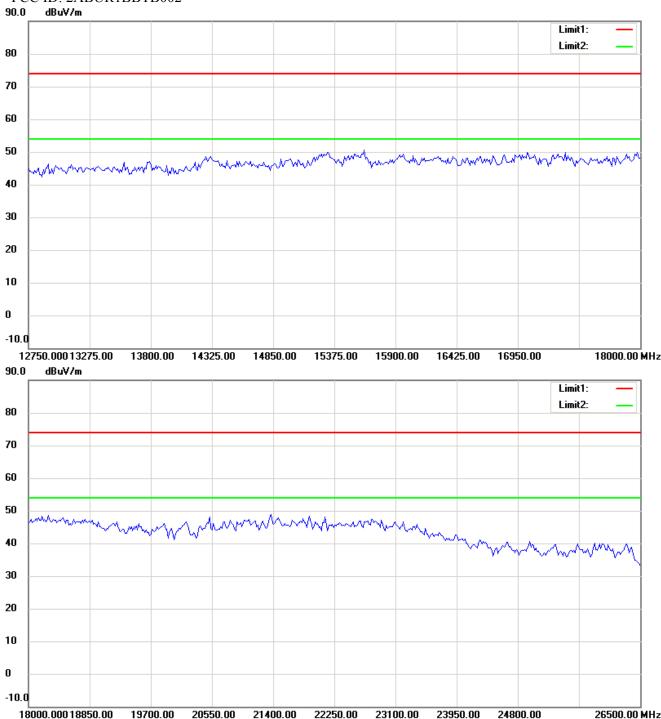


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



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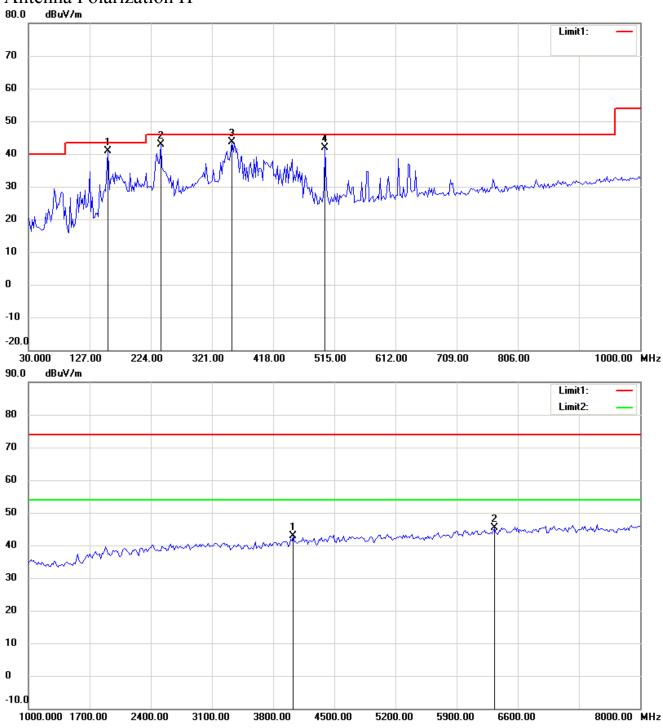


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

RX CH78

Antenna Polarization H

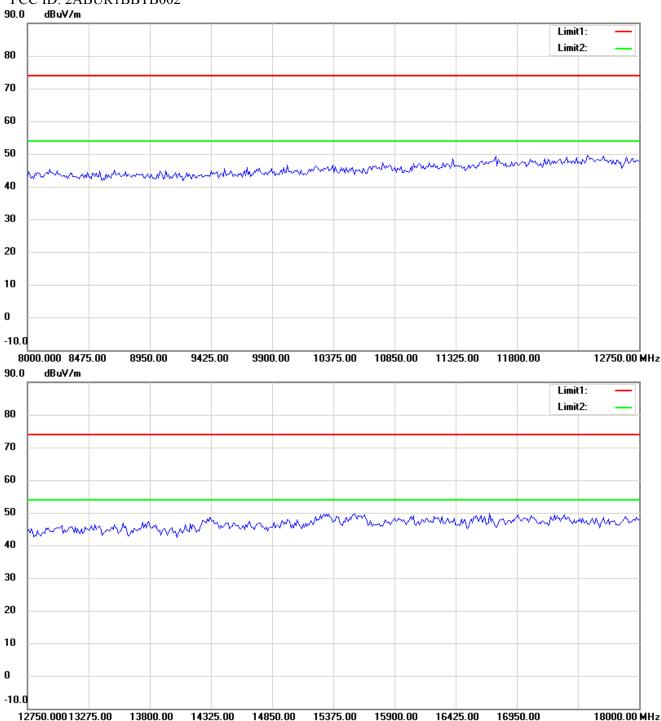


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

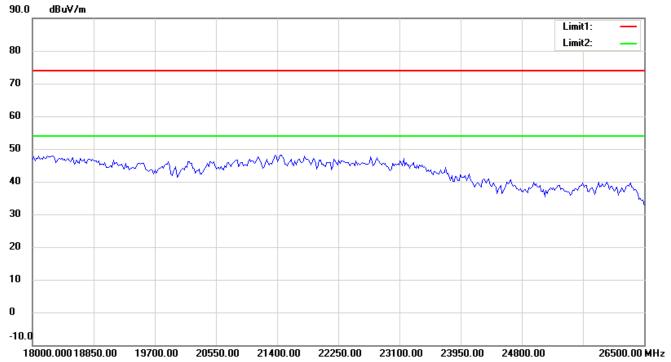


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

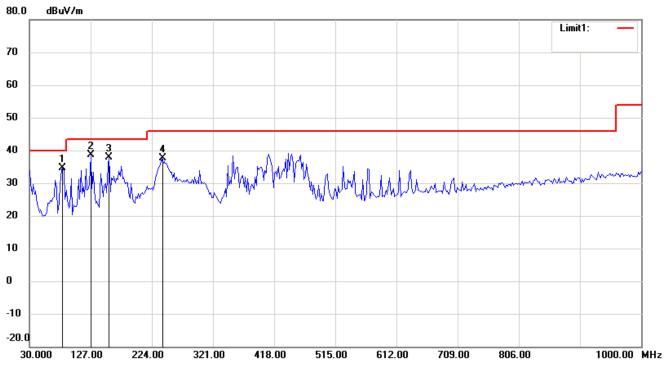


Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002



Antenna Polarization V

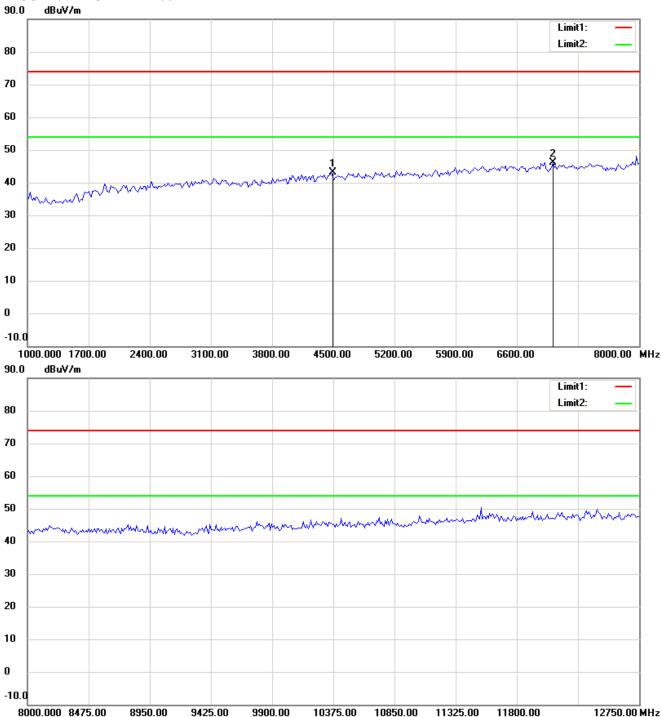


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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

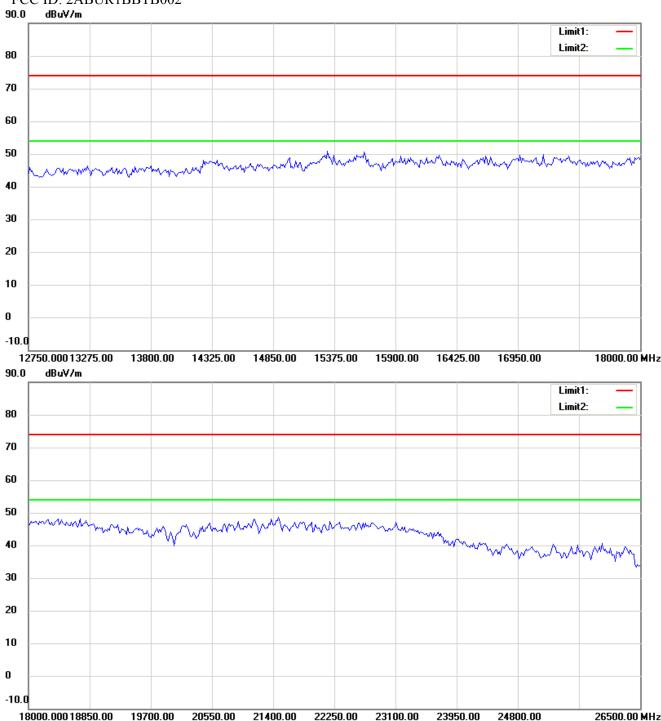


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FCC ID: 2ABUR1BBTB002



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Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

External Photos





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





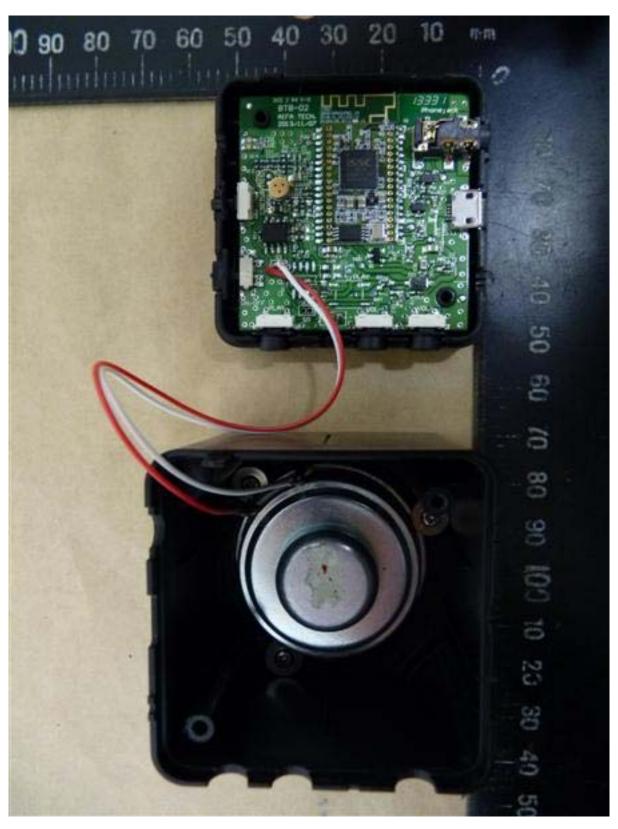
Registration number: W6M21401-13794-C-1





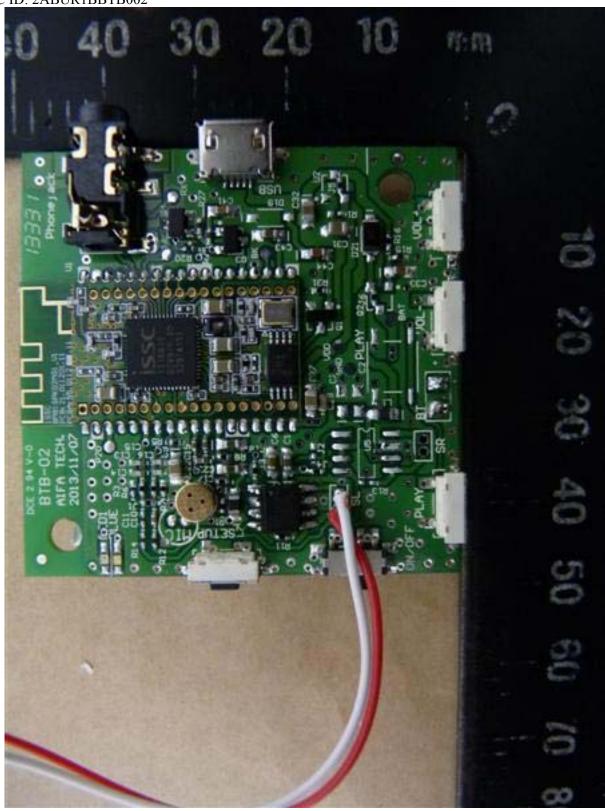
Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002

Internal Photos



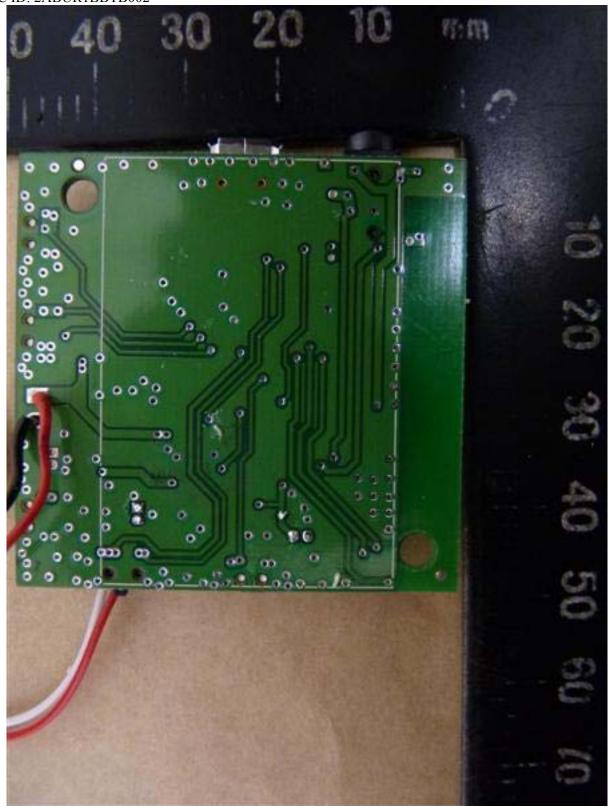


Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1 FCC_ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1 FCC_ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Multi-Listing Model No.: BTB-02B





Registration number: W6M21401-13794-C-1



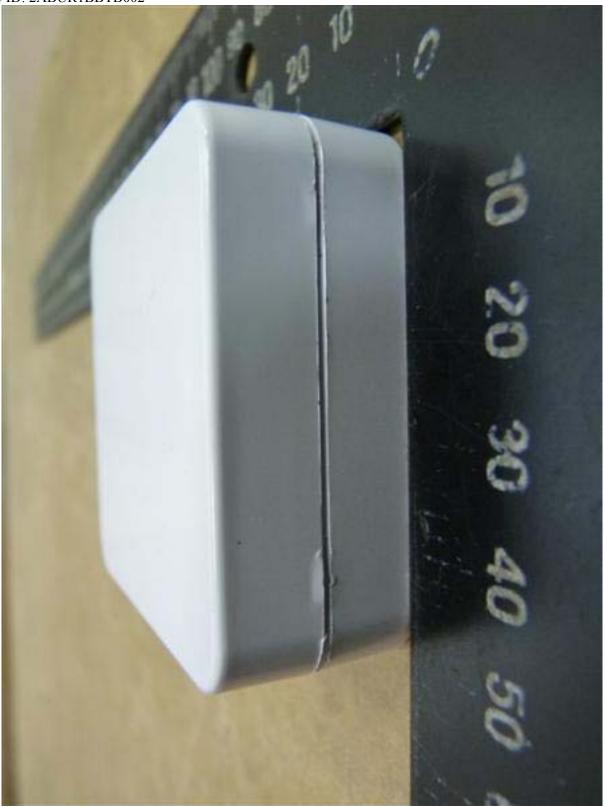


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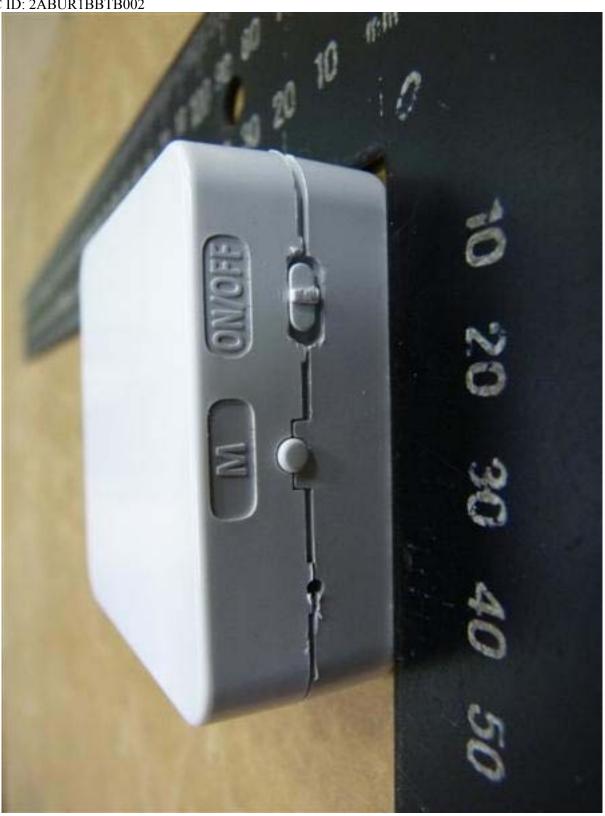


Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1 FCC_ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1 FCC_ID: 2ABUR1BBTB002





Registration number: W6M21401-13794-C-1

FCC ID: 2ABUR1BBTB002

Multi-Listing Model No.: BTSP-V2





Registration number: W6M21401-13794-C-1



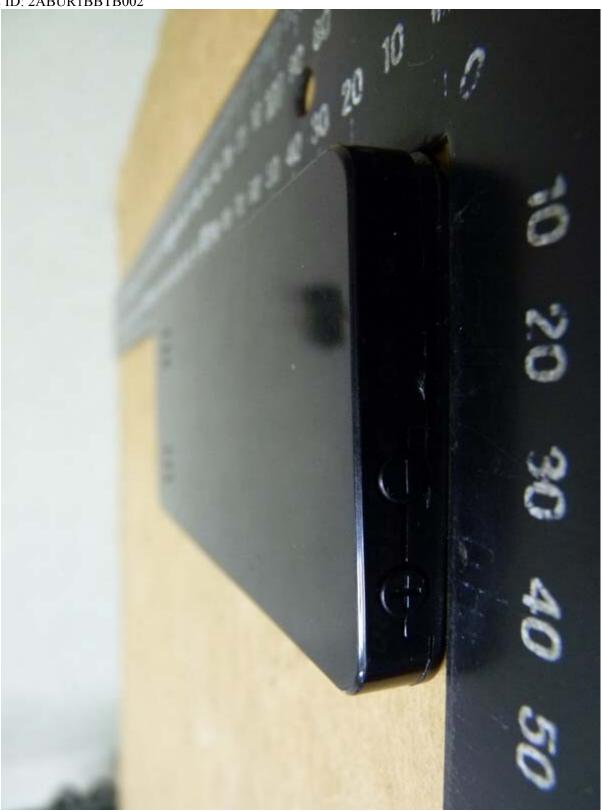


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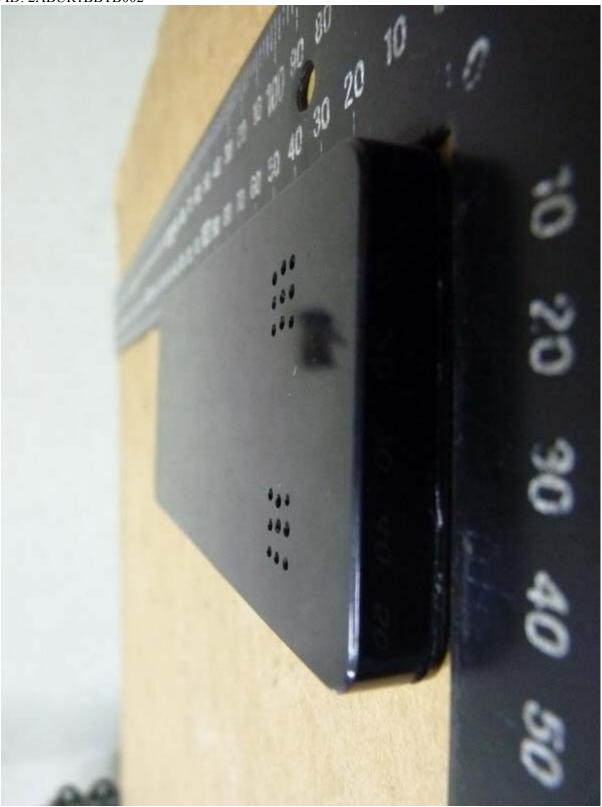


Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1





Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002

Set Up Photo of Radiated Emission







Registration number: W6M21401-13794-C-1 FCC ID: 2ABUR1BBTB002

Set Up Photo of Conducted Emission



