FCC PART 15 SUBPART C TEST REPORT

for

Bluetooth Module

Model No.: BTA3011M01

FCC ID: XEH-BTA3011M01

of

Applicant: Ajoho Enterprise Co., Ltd.

Address: 1F., No.300-3. Sec.3, Hoping W. Rd., Wan-hua 108, Taipei 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.: W6M20905-9766-P-15

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Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

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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 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:

May 26, 2009 Danny Sung

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

May 26, 2009 Chang Tse-Ming

Date WTS Name Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township,

Taipei County 207, Taiwan (R.O.C.)

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: Ajoho Enterprise Co., Ltd.

Street: 1F., No.300-3. Sec.3, Hoping W. Rd.,

Town: Wan-hua 108, Taipei.

Country: Taiwan, R.O.C Telephone: 02-2306-6867

Fax: /.

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1.4 Application details

Date of receipt of test item: May 13, 2009

Date of test: from May 14, 2009 to May 25, 2009

1.5 General information of Test item

Type of test item: Bluetooth Module

Model Number: BTA3011M01

Brand Name: AJOHO

Multi-listing model number: ./.

Photos: see Appendix

Technical data

Frequency band: 2402 - 2480 MHz

Frequency (ch A): 2.402 GHz Frequency (ch B): 2.441 GHz Frequency (ch C): 2.480 GHz

Transmitter Unom

Normal Mode

Power (ch A or ch 0): Conducted: 1.75 dBm Power (ch B or ch 39): Conducted: 2.07 dBm Power (ch C or ch 78): Conducted: 2.34 dBm

EDR Mode

Power (ch A or ch 0): Conducted: 4.50 dBm Power (ch B or ch 39): Conducted: 4.91 dBm Power (ch C or ch 78): Conducted: 5.19 dBm

Power supply: 5 Vdc

Operation modes: duplex

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

Antenna Type: Printed Antenna

Antenna gain: 0 dBi



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Host device: none

Classification:

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

Manufacturer: (if applicable)

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

Additional information: ./.

1.6 Test standards

Technical standard: FCC RULES PART 15 Subpart B / SUBPART C § 15.247 (2008-07)

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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 3 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

Details of power supply 5 Vdc

Extreme conditions parameters: test voltage : -- extreme

min : -- V max : -- V



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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	2008/9/18	2009/9/17
ETSTW-CE 002	PREREULATOR MODE DC POWER SUPPLY	None	None	None	Functi	on Test
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Functi	on Test
ETSTW-CE 004	ZWEILEITER-V- NETZNACHBILDUNG TWO- LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2009/3/27	2010/3/26
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2008/9/15	2009/9/14
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2009/5/9	2010/5/8
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2008/9/18	2009/9/17
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2008/7/25	2009/7/24
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2008/9/22	2009/9/21
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2008/9/24	2009/9/23
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2007/10/12	2009/10/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2008/10/8	2009/10/7
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2008/9/22	2009/9/21
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2008/9/18	2009/9/17
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	МОТЕСН	Functi	on Test
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2009/5/4	2010/5/3
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2008/10/27	2009/10/26
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Functi	on Test
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2008/8/27	2009/8/26
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2009/4/15	2010/4/14
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2009/4/15	2010/4/14
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2009/3/23	2010/3/22
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2008/9/1	2009/8/31
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2008/6/27	2009/6/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2008/9/1	2009/8/31
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2009/1/8	2011/1/7
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2009/5/5	2010/5/4
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2009/5/21	2010/5/20
ETSTW-RE 047	ESA-E SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2008/6/26	2009/6/25
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2008/9/1	2009/8/31
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2009/4/14	2011/4/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2008/7/1	2009/6/30



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	1					
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	2008/9/1	2009/8/31
ETSTW-RE 065	Amplifier	AMF-6F- 18002650-25-10P	941608	MITEQ	2009/4/21	2010/4/20
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2008/10/28	2009/10/27
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2009/1/9	2011/1/8
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2009/1/9	2011/1/8
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2008/10/9	2009/10/8
ETSTW-RE 092	Match Pad	MDCS1510	None	WOKEN	2008/10/9	2009/10/8
ETSTW-RE 093	LUMPED ELEMENT POWER DIVIDER	PL2-10	146	MCLI	2009/3/6	2010/3/5
ETSTW-RE 094	Precision Coaxial Termination	HP 909F	03941	Agilent	2008/12/19	2009/12/18
ETSTW-RE 095	Digital Thermo-Hygro Meter	0410	01	WISEWIND	2009/3/24	2010/3/23
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2008/9/23	2009/9/22
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2008/9/22	2009/9/21
ETSTW-Cable 001	Microwave Cable	SUCOFLEX 104	238094	HUBER+SUHNER	2008/9/22	2009/9/21
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104	238093	HUBER+SUHNER	2008/9/22	2009/9/21
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104	209953	HUBER+SUHNER	2008/9/22	2009/9/21
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER		ersion 4.16 Version 2.18
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version I	ETS-03A1
WTSTW-SW 003	EMI TEST SOFTWARE	i2	None	AUDIX	Version 3.2	2007-8-17b

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 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 C63.4-2003 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 C63.4-2003 Section 13.1.2. 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, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.). The Registration Number: **930600**.



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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.

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

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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 Emissions from Receiver Section of Transceiver	15.109	×	×	
Power Line Conducted Emission	15.207(a)			

The follows is intended to leave blank.

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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

Test conditions		Conducted Power			
		Channel A Channel B		Channel C	
		[dBm]	[dBm]	[dBm]	
$T_{nom} = 23$ °C	$V_{nom} = 5 V$	1.75	2.07	2.34	

EDR mode

	Conducted Power			
Test conditions	Channel A Channel B		Channel C	
	[dBm]	[dBm]	[dBm]	
$T_{\text{nom}} = 23^{\circ}\text{C}$ $V_{\text{nom}} = 5 \text{ V}$	4.50	4.91	5.19	

Test conditions		Radiated Power		
		Channel A Channel B		Channel C
		[dBm]	[dBm]	[dBm]
$T_{nom} = 23$ °C	$V_{nom} = 5 V$			

Test conditions $T_{nom} = ^{\circ}C, \ V_{nom} = V$ Frequency[MHz]	Signal Field strength TX highest power mode dBμV/m
	-1-
Measurement uncertainty	< 3 dB

The diagrams for the field strength measurements are included in Appendix.

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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 064

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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 003, ETSTW-RE 004, ETSTW-RE 017, ETSTW-RE 018, ETSTW-RE 021, ETSTW-RE 028, ETSTW-RE 030, ETSTW-RE 043, ETSTW-RE 064

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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 003, ETSTW-RE 004, ETSTW-RE 017, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 064

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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: Mode: Polarization: I	TX	011M01 CH0	Date: Temperature: Humidity:		2009/5/ 24 51			er: Da	anny
Frequency (MHz)	Reading (dBuV)	Detector	Factor Result (dB) (dBuV/m)		Limi (dBuV		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
260.501	15.85	peak	14.10	29.95	46.0	0	-16.05	105	150
611.423	5.82	peak	22.23 28.05		46.0	0	-17.95	120	150

Frequen	CV	Rea	Reading F		Result	t @3m	Limit @3m		Margin	Table	Ant.
	-)		(dBuV)			V/m)	(dBuV/m)		3	Degree	High
(MHz)		Peak	Ave.	(dB) Corr.	Peak	,	Peak	,	(dB)	(Deg.)	(cm)
4804.04	3	64.17	49.97	-1.30	62.87	48.67	74.00	54.00	-5.33	140	150
7206.00	0	41.90		1.89	43.79		74.00	54.00	-30.21	135	150
9608.71	7	23.41		25.34	42.75		74.00	54.00	-31.25	145	150
12010.0	00	20.35		29.32	43.67		74.00	54.00	-30.33	135	150



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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)
165.812	16.48	peak	15.18	31.66	43.50	-11.84	110	150
611.423	6.34	peak	22.23	28.57	46.00	-17.43	130	150

Frequency	Rea	ding	Factor			Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	(dBuV/m) (dBuV/m)			Degree	High	
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4803.989	59.78	48.34	-1.30	58.48	47.04	74.00	54.00	-6.96	145	150
7206.000	42.94		1.89	44.83		74.00	54.00	-29.17	150	150
9608.000	23.70		25.34	43.04		74.00	54.00	-30.96	135	150
12010.000	21.77		29.32	45.09		74.00	54.00	-28.91	140	150

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)
165.812	12.63	peak	15.18	27.81	43.50	-15.69	115	150
611.423	5.48	peak	22.23	27.71	46.00	-18.29	120	150

Frequency	Rea	ding	Factor	Resul	Result @3m		Limit @3m		Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4882.118	62.39	49.29	-1.30	61.09	47.99	74.00	54.00	-6.01	135	150
7323.000	41.81		1.85	43.66		74.00	54.00	-30.34	130	150
9764.000	20.71		25.02	39.73		74.00	54.00	-34.27	145	150
12205.000	21.49		29.79	45.28		74.00	54.00	-28.72	150	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.976	14.11	peak	15.07	29.18	43.50	-14.32	105	150
608.617	5.98	peak	22.22	28.20	46.00	-17.80	120	150

Frequency	Rea	Reading		Resul	Result @3m		Limit @3m		Table	Ant.
		(dBuV) (dB)		(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4882.134	57.91	47.86	-1.30	56.61	46.56	74.00	54.00	-7.44	140	150
7323.000	43.13		1.85	44.98		74.00	54.00	-29.02	135	150
9764.000	20.51		25.02	39.53		74.00	54.00	-34.47	145	150
12205.000	21.74		29.79	45.53		74.00	54.00	-28.47	150	150



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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)
262.124	15.42	peak	14.16	29.58	46.00	-16.42	110	150
611.423	5.65	peak	22.23	27.88	46.00	-18.12	130	150

Frequency	Reading		Factor	Result	Result @3m		Limit @3m		Table	Ant.
	(dB	(dBuV)		(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4960.120	61.46	47.44	-1.06	60.40	46.38	74.00	54.00	-7.62	140	150
7440.000	42.48		1.80	44.28		74.00	54.00	-29.72	135	150
9920.000	20.95		26.04	40.99		74.00	54.00	-33.01	135	150
12400.000	22.00		30.26	46.26		74.00	54.00	-27.74	130	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
168.517	13.74	peak	15.04	28.78	43.50	-14.72	110	150
611.423	5.31	peak	22.23	27.54	46.00	-18.46	125	150

Frequency	Rea	ding	Factor	Result	t @3m	Limit	@3m	Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBu	V/m)	Ü	Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4959.951	57.45	47.25	-1.06	56.39	46.19	74.00	54.00	-7.81	135	150
7440.000	42.83		1.80	44.63		74.00	54.00	-29.37	135	150
9920.000	22.02		26.04	42.06		74.00	54.00	-31.94	140	150
12400.000	21.48		30.26	45.74		74.00	54.00	-28.26	145	150

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. See the attached diagram as 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 003, ETSTW-RE 004, ETSTW-RE 017, ETSTW-RE 018, ETSTW-RE 021, ETSTW-RE 028, ETSTW-RE 030, ETSTW-RE 043, ETSTW-RE 064

FCC ID: XEH-BTA3011M01

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.

Test conditions		Channel Separation				
		Channel 0	Channel 0+1			
$T_{\text{nom}} = 23^{\circ}\text{C}$	$V_{\text{nom}} = 5 \text{ V}$	1000.000 kHz				

		Channel Separation			
		Channel 39	Channel 39+1		
		1000.000 kHz			

		Channel Separation			
		Channel 78	Channel 78+1		
		1000.000 kHz			

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

FCC ID: XEH-BTA3011M01

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.

Test conditions		Operating Mode	Number of Channels
$T_{nom}=23$ °C	$V_{nom} = 5 V$	normal transmitting	79

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

Explanation: See attached diagrams in appendix.

3.7.1 Pseudorandom Frequency Hopping Sequence

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

3.7.2 Coordination of hopping sequences to other transmitters

According to the Bluetooth core specification V1.1 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.

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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.

Test conditions	Operating mode	Measurement period	Time of Occupancy
$T_{\text{nom}} = 23^{\circ}\text{C}$	normal transmitting-DH 1	31.6 s	125.12 ms
$V_{\text{nom}} = 5 \text{ V}$ Channel 0	normal transmitting-DH 3	31.6 s	264.48 ms
	normal transmitting-DH 5	31.6 s	320.10 ms

Test conditions	Operating mode	Measurement period	Time of Occupancy
$T_{\text{nom}} = 23^{\circ}\text{C}$	normal transmitting-DH 1	31.6 s	125.12 ms
$V_{\text{nom}} = 5 \text{ V}$ Channel 39	normal transmitting-DH 3	31.6 s	264.48 ms
	normal transmitting-DH 5	31.6 s	320.10 ms

Test conditions	Operating mode	Measurement period	Time of Occupancy
$T_{\text{nom}} = 23^{\circ}\text{C}$	normal transmitting-DH 1	31.6 s	125.12 ms
$V_{\text{nom}} = 5 \text{ V}$ Channel 78	normal transmitting-DH 3	31.6 s	264.48 ms
	normal transmitting-DH 5	31.6 s	320.10 ms



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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

Explanation: See attached diagrams in appendix, which show the On-time and the number of counted

events during the measurement period

FCC ID: XEH-BTA3011M01

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

Test co	onditions	20 dB Bandwidth			
1 est conditions		Channel A	Channel B	Channel C	
$T_{\text{nom}} = 23^{\circ}\text{C}$	$V_{nom} = 5 V$	993.589743590 kHz	993.589743590 kHz	993.589743590 kHz	

EDR mode

Test conditions		20 dB Bandwidth			
	Channel A	Channel A Channel B			
$T_{\text{nom}} = 23^{\circ}\text{C}$ $V_{\text{nom}} = 5 \text{ V}$	1.314102564 MHz	1.314102564 MHz	1.320512821 MHz		

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

Explanation: See attached diagrams in appendix.

3.9.1 System Receiver Input Bandwidth

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

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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

Test co	nditions	Attenuation at or (Single Fi	\mathcal{C}
		Lower Band-edge	Upper Band-edge
$T_{nom}=23$ °C	$V_{nom} = 5 V$	32.15 dB	33.75 dB

Test co	nditions	Attenuation at or o	\mathcal{C}
		Lower Band-edge	Upper Band-edge
$T_{nom}=23$ °C	$V_{nom} = 5 V$	32.15 dB	38.74 dB

EDR mode

Test co	nditions	Attenuation at or o	\mathcal{E}
		Lower Band-edge	Upper Band-edge
$T_{nom}=23$ °C	$V_{nom} = 5 V$	31.95 dB	34.03 dB

Test co	nditions	Attenuation at or (\mathbf{c}
		Lower Band-edge	Upper Band-edge
T _{nom} = 23°C	$V_{nom} = 5 V$	36.79 dB	39.20 dB



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Limits:

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

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



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3.11 Radiated Emissions from Receiver Section of Transceiver

FCC Rule: 15.109

Model: BTA3011M01 Date: 2009/5/20

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

Polarization: Horizontal Humidity: 51 %

i dianzation. Ti	onzoniai		I	idifficity.	31 /0			
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
78.697	13.89	peak	10.23	24.12	40.00	-15.88	105	150
199.359	19.11	peak	12.18	31.29	43.50	-12.21	100	150
479.559	13.44	peak	19.58	33.02	46.00	-12.98	120	150
831.663	7.41	peak	25.55	32.96	46.00	-13.04	130	150

	Frequency	(dB	ding uV)	Factor (dB)	(dBu	Result @3m Limit @3m (dBuV/m) (dBuV/m)		Margin	Table Degree	Ant. High (cm)	
	(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	. Ave.	(dB)	(Deg.)	(0111)
	4000.000	41.86		1.20	43.06		74.00	54.00	-30.94	145	150
ſ	7887.776	42.17		1.85	44.02		74.00	54.00	-29.98	130	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
32.705	20.46	peak	13.06	33.52	40.00	-6.48	105	150
192.325	24.11	peak	12.62	36.73	43.50	-6.77	110	150
479.559	14.07	peak	19.58	33.65	46.00	-12.35	125	150
851.303	8.06	peak	25.61	33.67	46.00	-12.33	120	150

Frequency		ding uV)	Factor (dB)		Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Table Degree	Ant. High (cm)
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(CIII)
3987.976	41.64		1.16	42.80		74.00	54.00	-31.20	140	150
7102.204	42.68		2.78	45.46		74.00	54.00	-28.54	140	150

Mode: RX CH39

Polarization: Horizontal

1 Glarizationi 1	olarization. Horizonia									
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)		
78.156	14.09	peak	10.35	24.44	40.00	-15.56	100	150		
203.687	19.15	peak	12.21	31.36	43.50	-12.14	115	150		
492.184	14.24	peak	19.72	33.96	46.00	-12.04	130	150		
673.146	9.79	peak	22.94	32.73	46.00	-13.27	125	150		



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Frequency	Rea (dB	ding uV)	Factor (dB)		: @3m V/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
3933.868	42.16		1.00	43.16		74.00	54.00	-30.84	145	150
7102.204	41.41		2.78	44.19		74.00	54.00	-29.81	135	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
35.952	22.43	peak	13.30	35.73	40.00	-4.27	110	150
192.325	22.94	peak	12.62	35.56	43.50	-7.94	100	150
479.559	14.32	peak	19.58	33.90	46.00	-12.10	125	150
879.359	8.11	peak	25.82	33.93	46.00	-12.07	130	150

Frequency	Rea	ding	Factor		@3m		@3m	Margin	Table	Ant. High
	(dB	uV)	(dB)	(dBu	V/m)	(dBu	·V/m)		Degree	0
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
3735.471	42.44		0.34	42.78		74.00	54.00	-31.22	135	150
7102.204	41.42		2.78	44.20		74.00	54.00	-29.80	145	150

Mode: RX CH78

Polarization: Horizontal

T GIGITZGUOTTI T								
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
79.239	14.65	peak	10.12	24.77	40.00	-15.23	115	150
200.441	19.08	peak	12.15	31.23	43.50	-12.27	105	150
666.132	10.10	peak	22.89	32.99	46.00	-13.01	125	150
757.315	8.50	peak	24.70	33.20	46.00	-12.80	120	150

	Frequency		ding uV)	Factor (dB)		: @3m V/m)		@3m V/m)	Margin	Table Degree	Ant. High
	(MHz)	Peak	Ave.	Corr.	Peak	Äve.	Peak	Ave.	(dB)	(Deg.)	(cm)
ĺ	3765.531	42.81		0.46	43.27		74.00	54.00	-30.73	150	150
Ī	7983.968	43.79		1.56	45.35		74.00	54.00	-28.65	140	150

Polarization: Vertical

i dianzadon.	olarization. Vertical								
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	
32.164	20.89	peak	13.04	33.93	40.00	-6.07	115	150	
192.325	23.14	peak	12.62	35.76	43.50	-7.74	110	150	
479.559	14.01	peak	19.58	33.59	46.00	-12.41	130	150	
879.359	8.65	peak	25.82	34.47	46.00	-11.53	120	150	



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Frequency		ding uV)	Factor (dB)		: @3m V/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
3909.820	42.99		0.93	43.92		74.00	54.00	-30.08	135	150
6637.275	39.80		4.58	44.38		74.00	54.00	-29.62	140	150

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 004 ETSTW-RE 017 ETSTW-RE 028

ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043

ETSTW-RE 044 ETSTW-RE 064

FCC ID: XEH-BTA3011M01

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.

Frequency	Level (dBµV)				
requency	quasi-peak	average			
150 kHz	lower limit line	Lower limit line			

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 003, ETSTW-CE 004, ETSTW-CE 006, ETSTW-RE 064

Explanation: For DC power supplied device, this test item is not applicable.

FCC ID: XEH-BTA3011M01

Appendix

A Measurement diagrams

- 1. Peak Output Power
- 2. Spurious Emissions radiated
- 3. Carrier Frequency Separation
- 4. Number of Hopping Frequencies
- 5. Time of Occupancy (Dwell Time)
- 6. 20dB Bandwidth
- 7. Band-edge Compliance of RF Conducted Emissions
- 8. Radiated Emissions from Receiver Section of Transceiver

B Photos

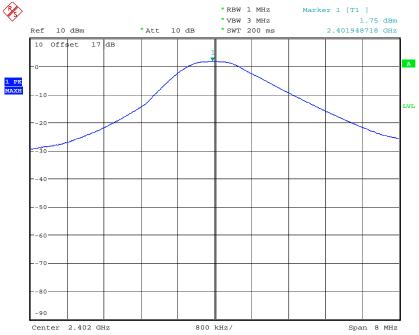
- 1. EUT Photos
- 2. Set Up Photo of Radiated Emission



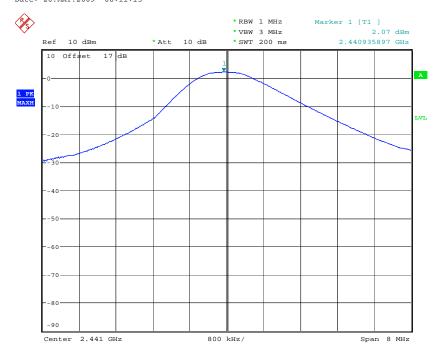
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Peak Output Power



MAX OUTPUT POWER CH0
Date: 20.MAY.2009 08:11:13

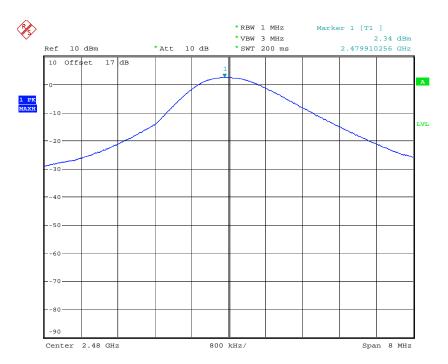


MAX OUTPUT POWER CH39
Date: 20.MAY.2009 08:11:45



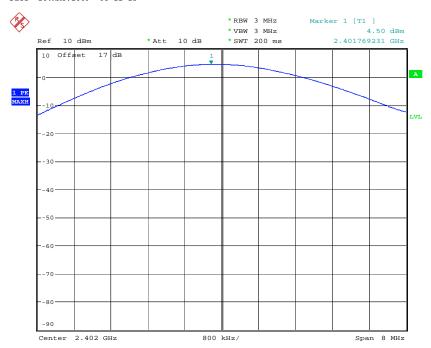
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



MAX OUTPUT POWER CH78

Date: 20.MAY.2009 08:12:23

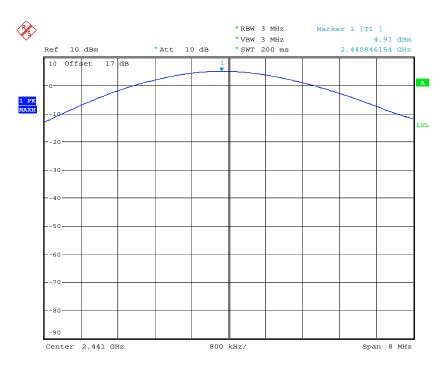


MAX OUTPUT POWER CH0 EDR MODE Date: 20.MAY.2009 08:13:36

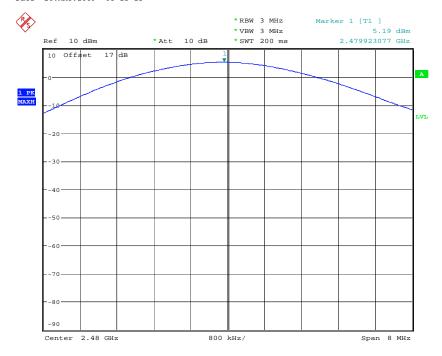


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



MAX OUTPUT POWER CH39 EDR MODE Date: 20.MAY.2009 08:13:15



MAX OUTPUT POWER CH78 EDR MODE Date: 20.MAY.2009 08:12:52

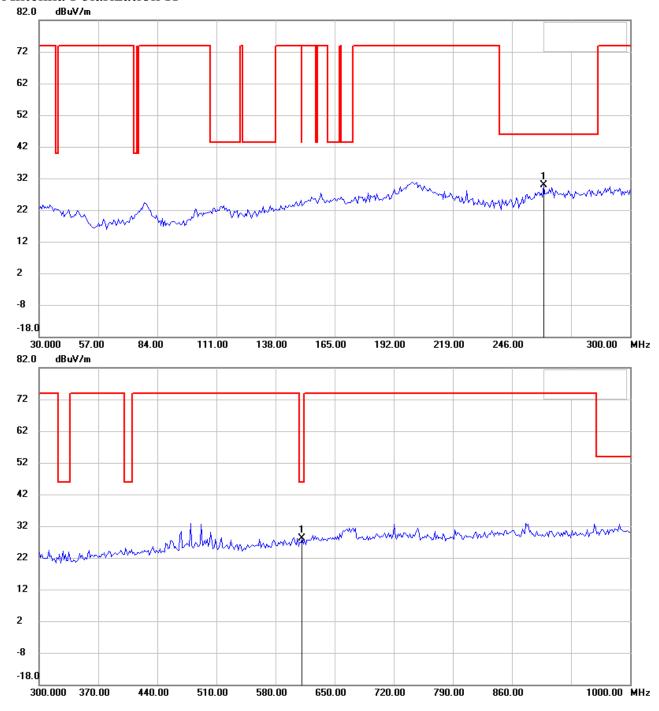


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Spurious Emissions radiated_ Transmitter Part CH 0

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

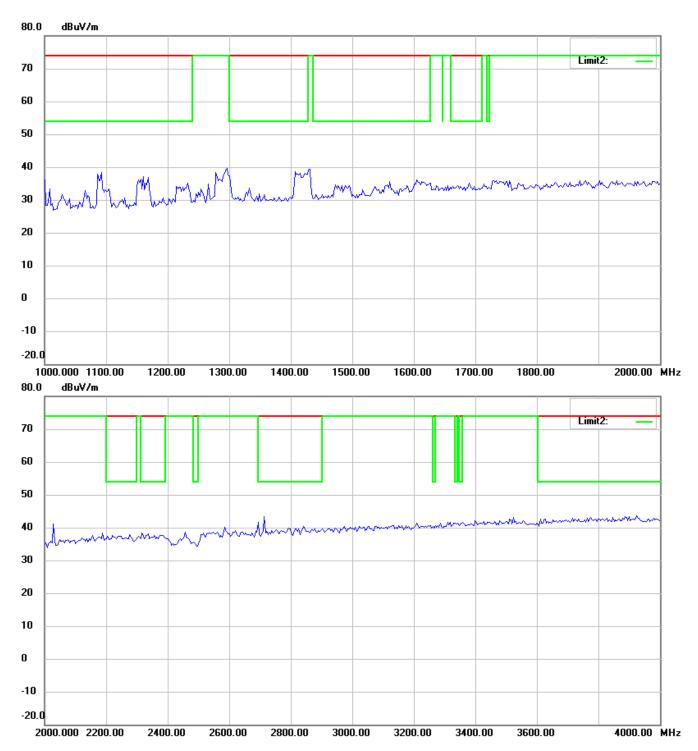
Note:

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

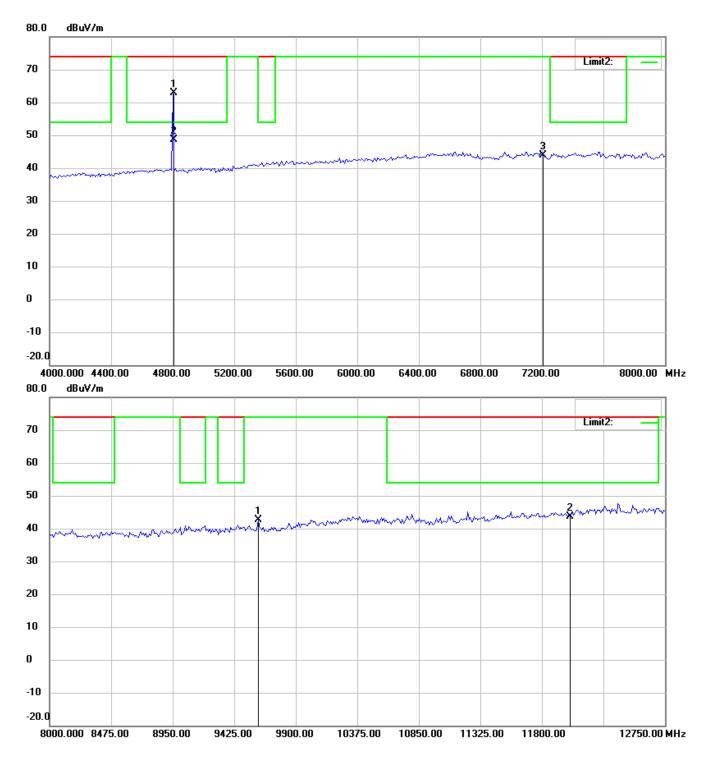
Note:

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



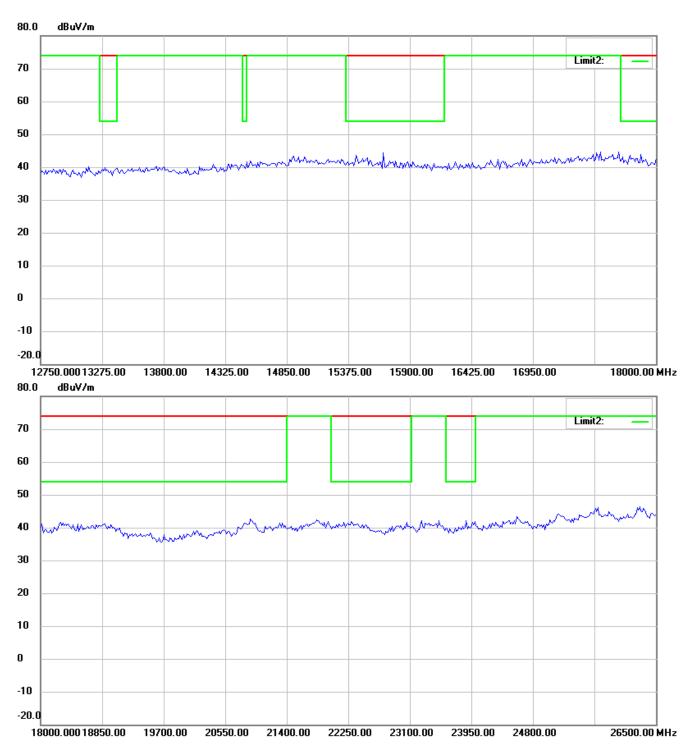
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

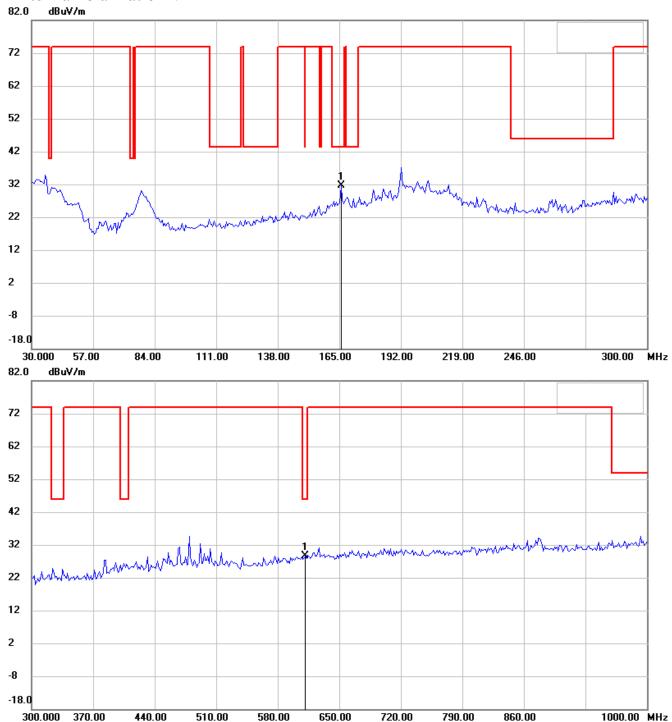
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Antenna Polarization V



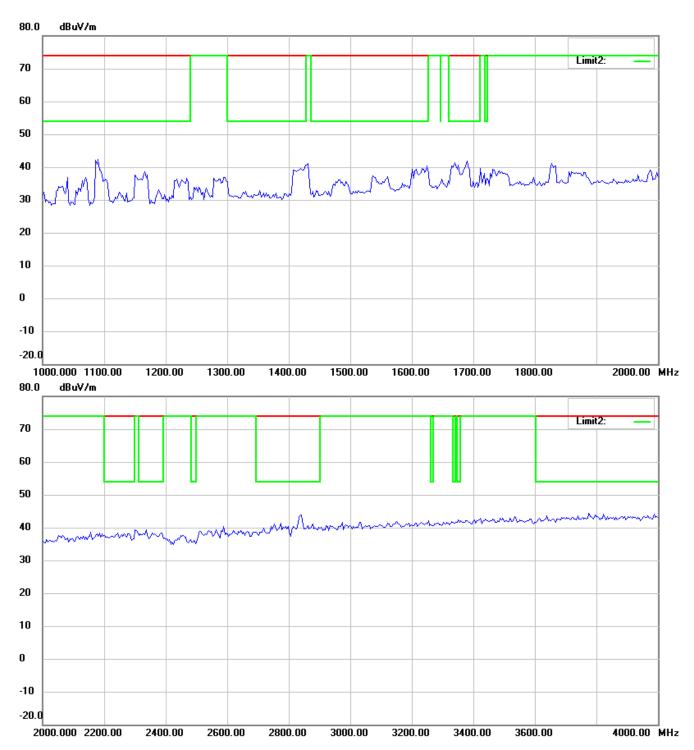
Up Line: Peak Limit Line Down Line: Ave Limit Line

- Note: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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



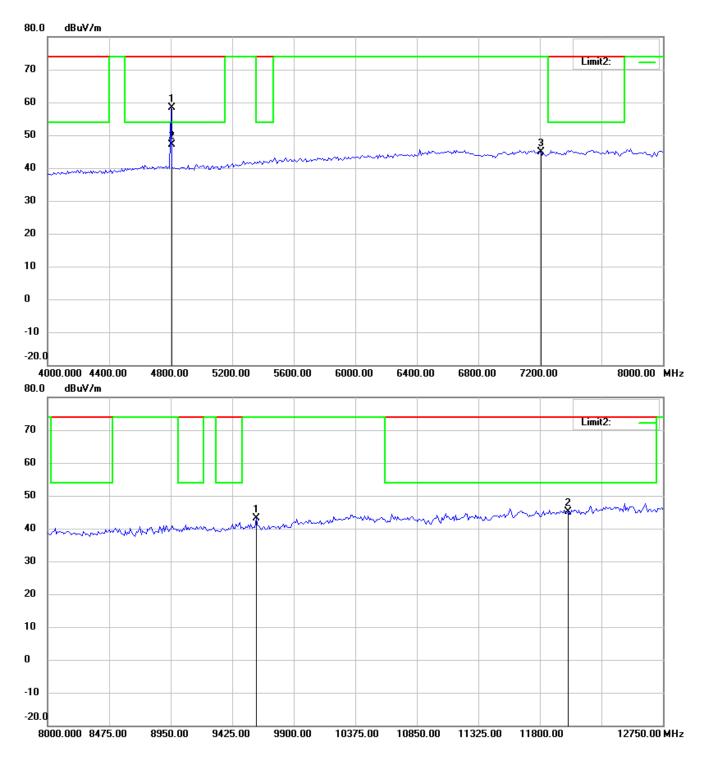
Up Line: Peak Limit Line Down Line: Ave Limit Line Note:

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



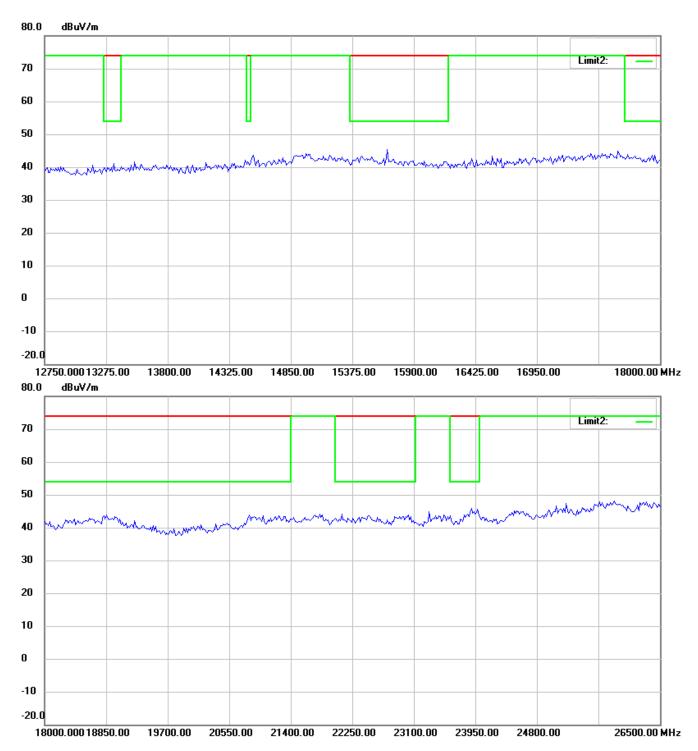
Up Line: Peak Limit Line Down Line: Ave Limit Line Note:

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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.

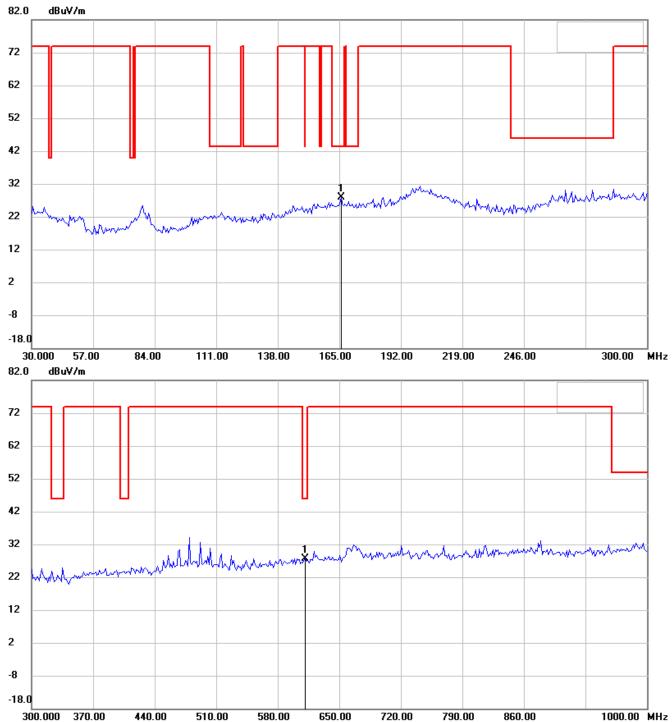


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

CH 39

Antenna Polarization H



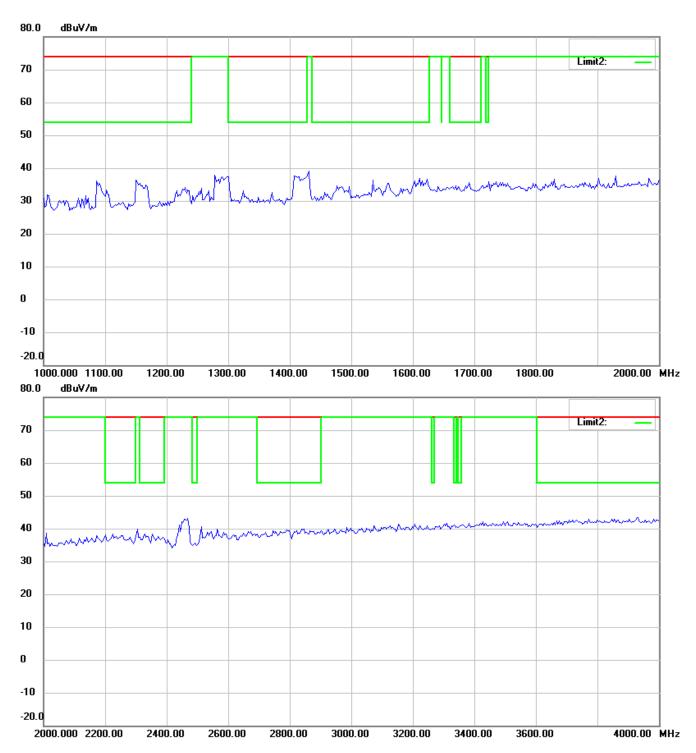
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



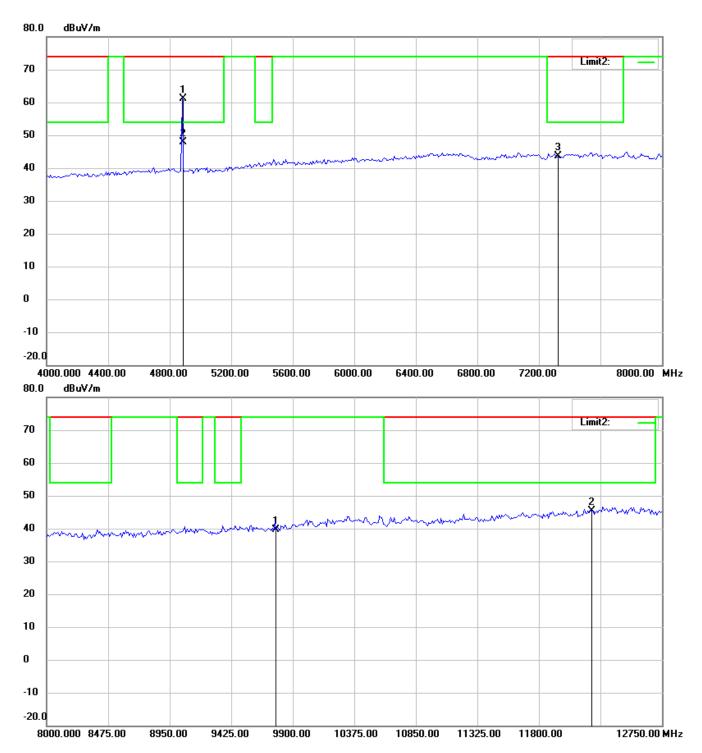
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



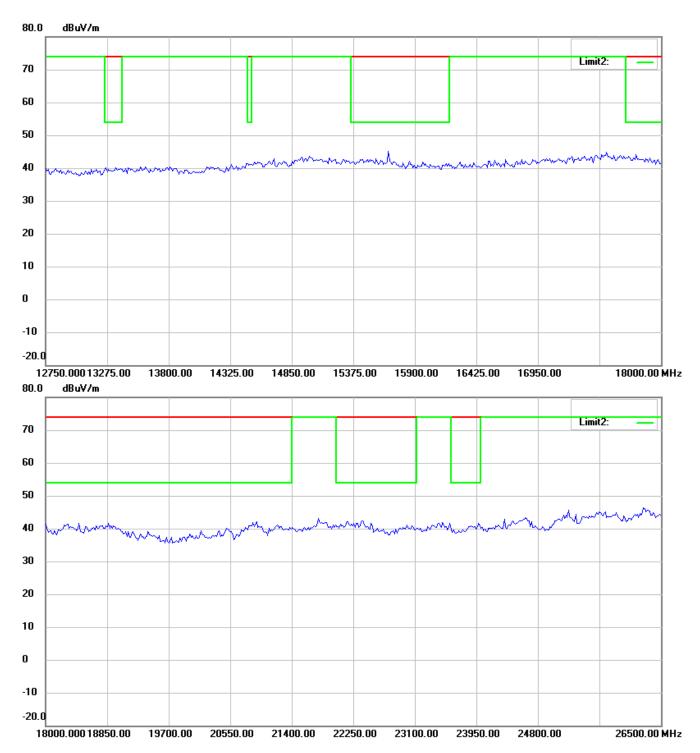
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

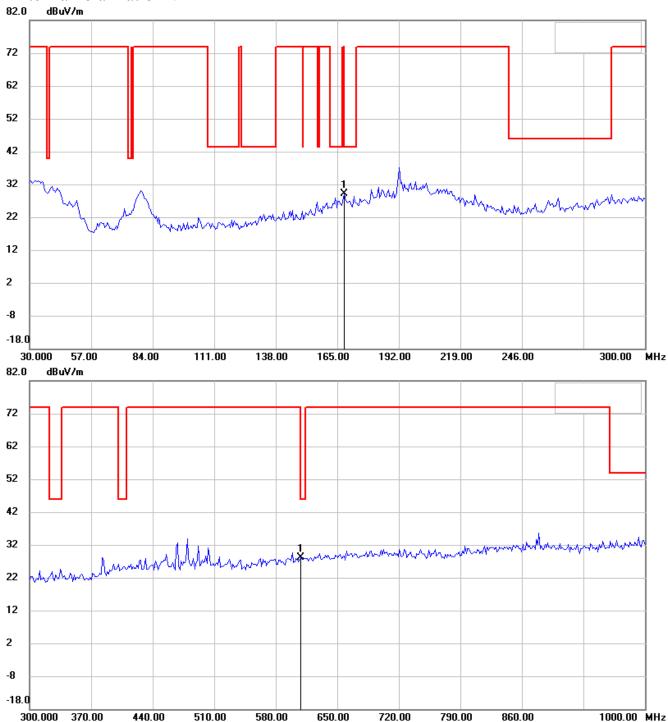
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Antenna Polarization V



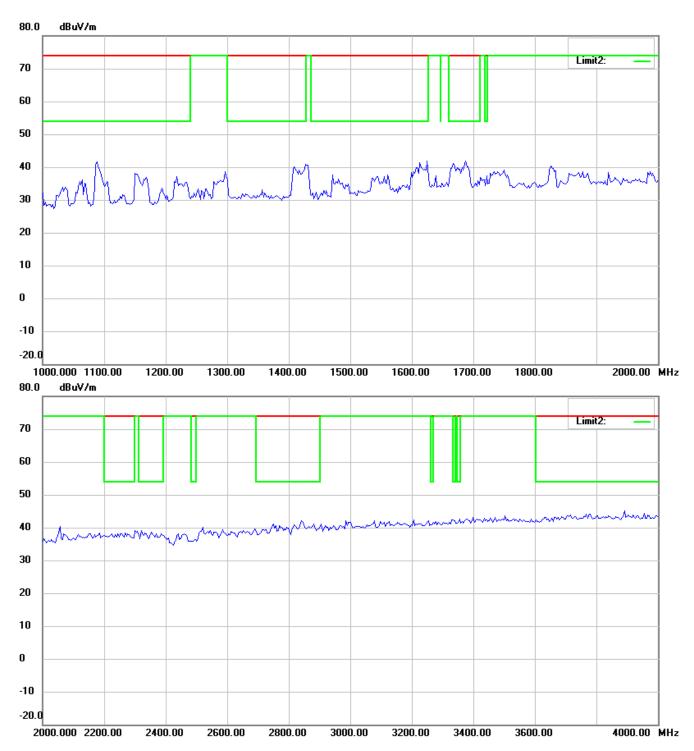
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



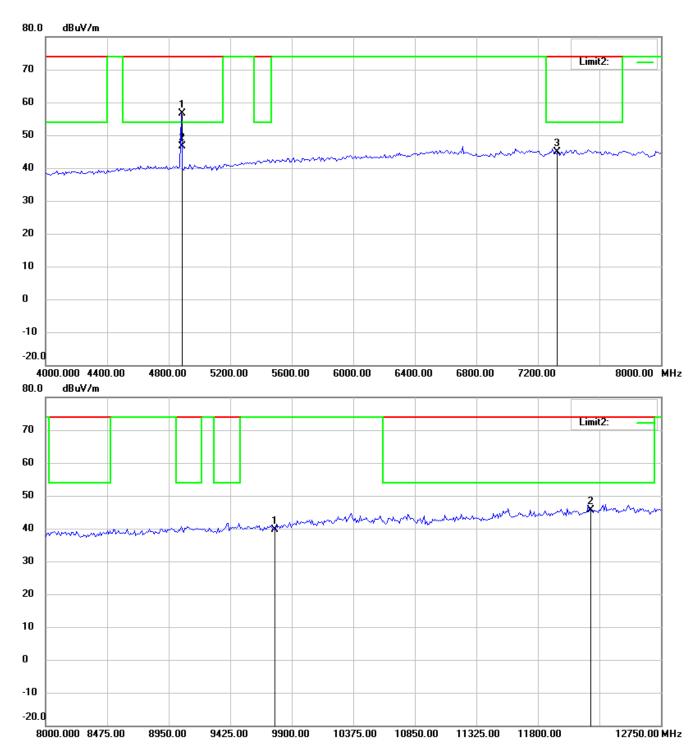
Up Line: Peak Limit Line Down Line: Ave Limit Line Note:

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



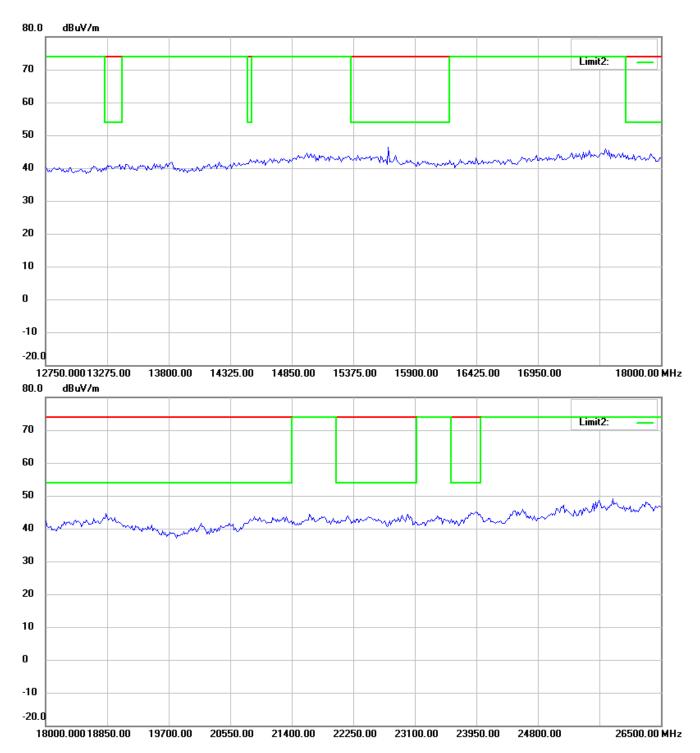
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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.

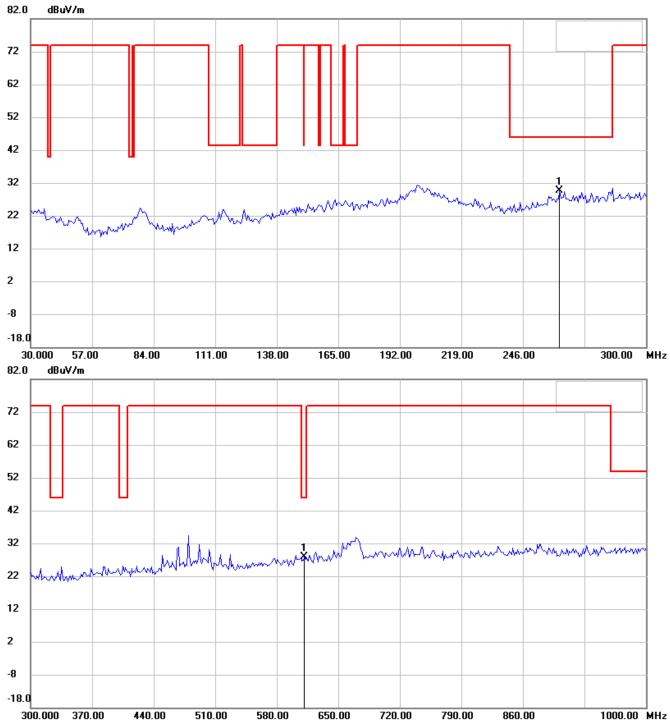


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

CH 78

Antenna Polarization H



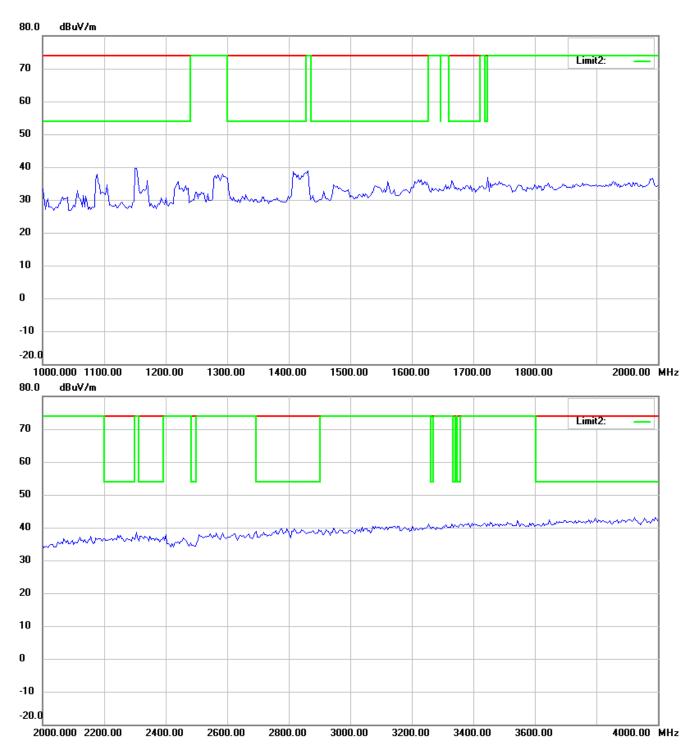
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



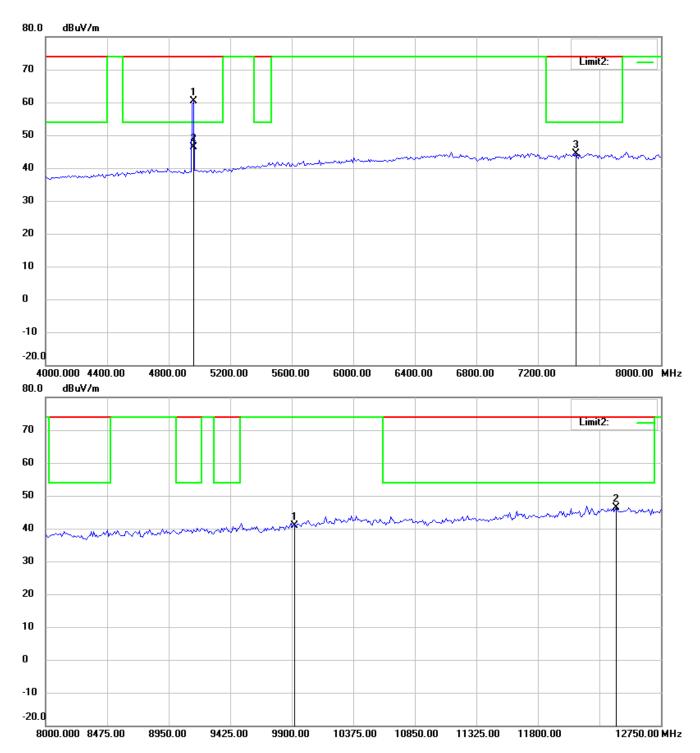
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



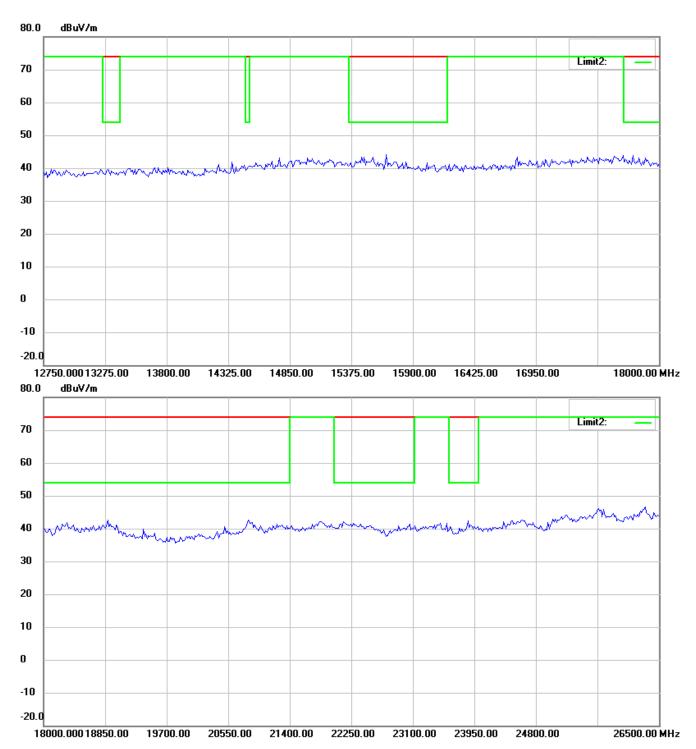
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

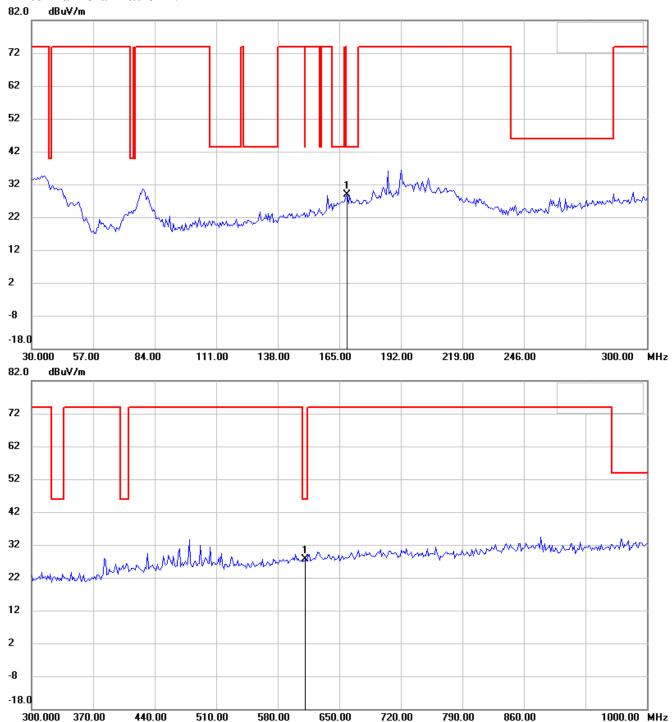
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Antenna Polarization V



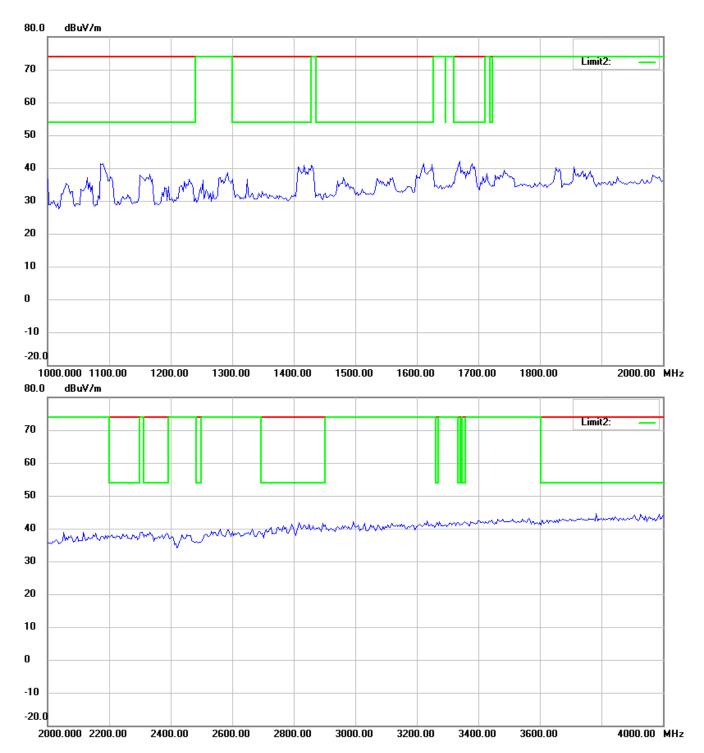
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



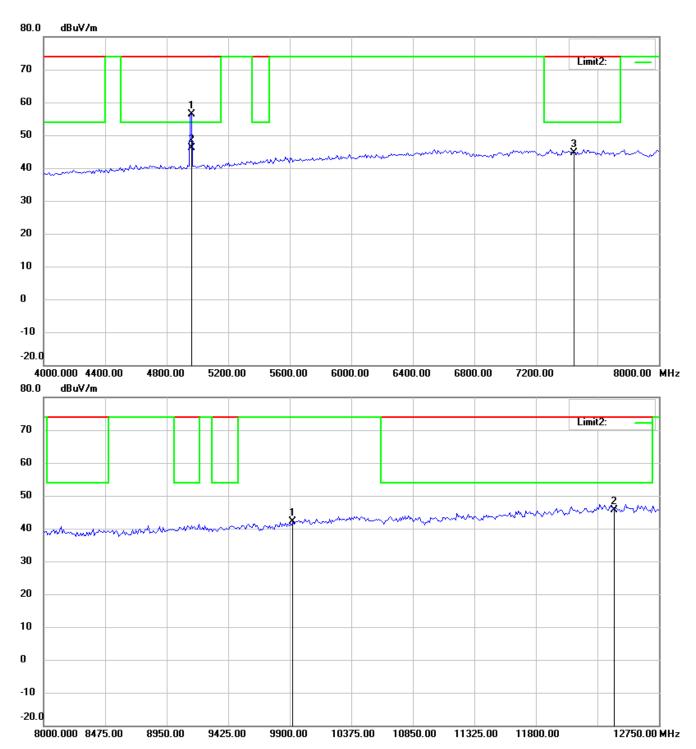
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



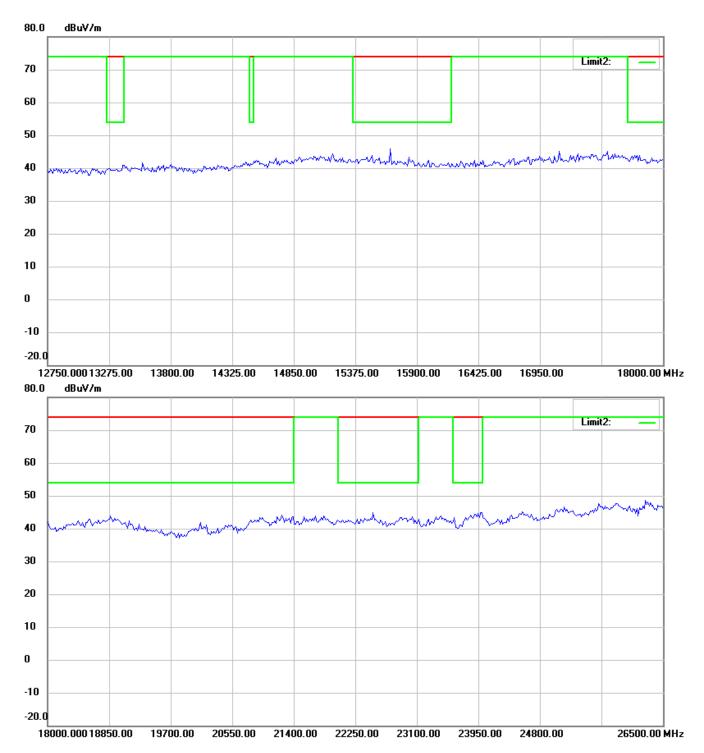
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 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: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Up Line: Peak Limit Line Down Line: Ave Limit Line

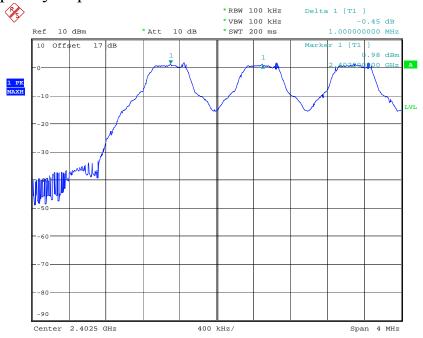
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



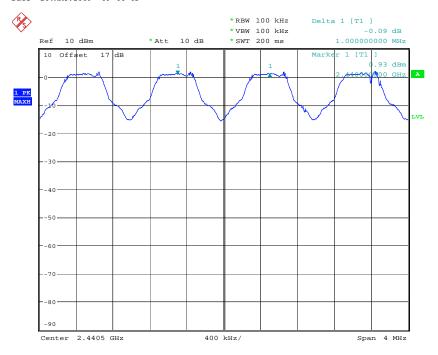
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Carrier Frequency Separation



FREQUENCY SEPARATION CH0
Date: 20.MAY.2009 09:44:45

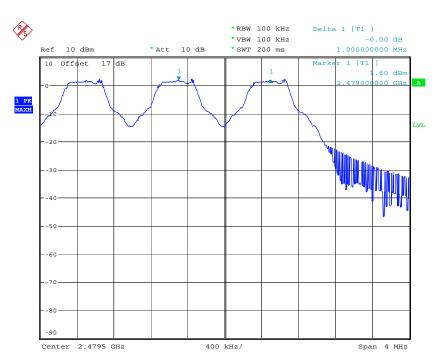


FREQUENCY SEPARATION CH39
Date: 20.MAY.2009 09:49:00



Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



FREQUENCY SEPARATION CH78

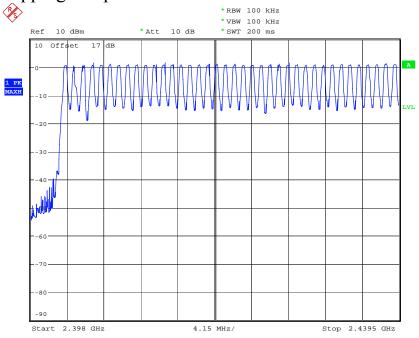
Date: 20.MAY.2009 10:05:07

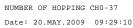


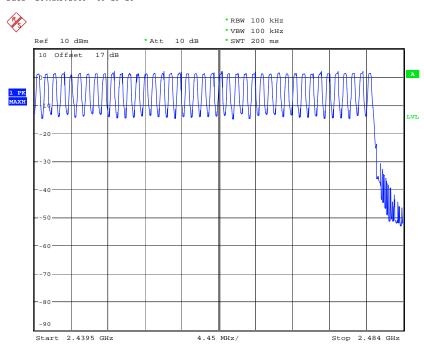
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Number of Hopping Frequencies







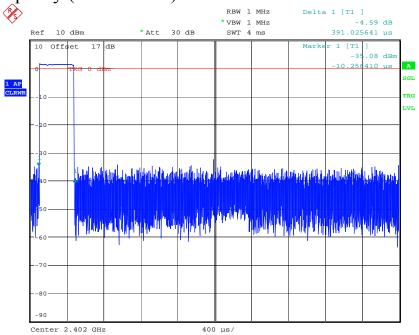
NUMBER OF HOPPING CH38-78
Date: 20.MAY.2009 09:33:08



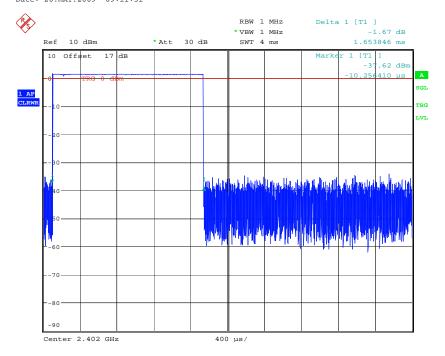
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Time of Occupancy (Dwell Time)



DWELL TIME CHO DH1 (0.391ms * 320event = 125.12ms)
Date: 20.MAY.2009 09:11:51

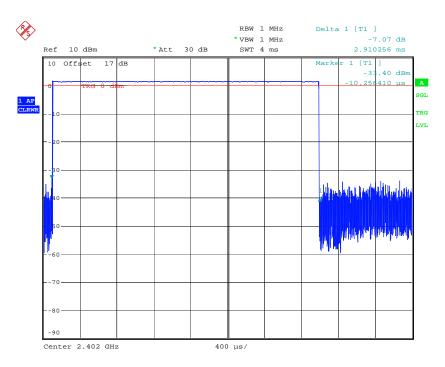


DWELL TIME CHO DH3 (1.653ms * 160event = 264.48ms)
Date: 20.MAY.2009 09:16:02

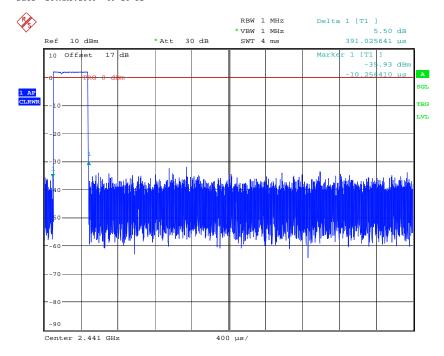


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



DWELL TIME CH0 DH5 (2.910ms * 110event = 320.1ms)
Date: 20.MAY.2009 09:16:51



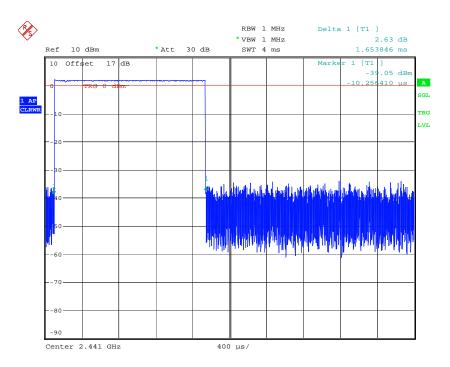
DWELL TIME CH39 DH1 (0.391ms * 320event = 125.12ms)

Date: 20.MAY.2009 09:12:52

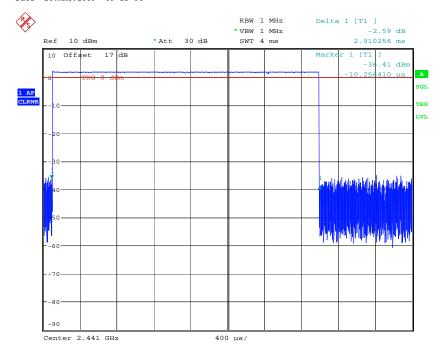


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



DWELL TIME CH39 DH3 (1.653ms * 160event = 264.48ms)
Date: 20.MAY.2009 09:15:04



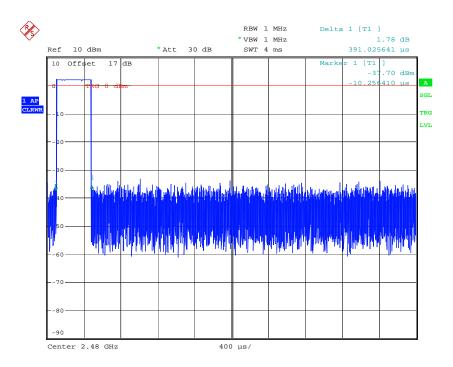
DWELL TIME CH39 DH5 (2.910ms * 110event = 320.1ms)

Date: 20.MAY.2009 09:17:57

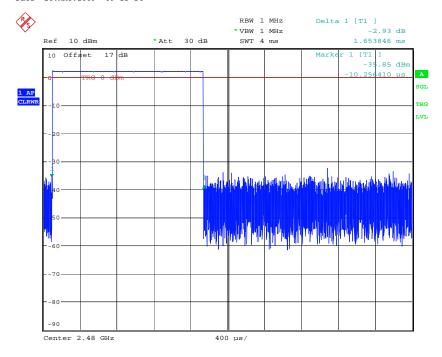


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



DWELL TIME CH78 DH1 (0.391ms * 320event = 125.12ms)
Date: 20.MAY.2009 09:13:14



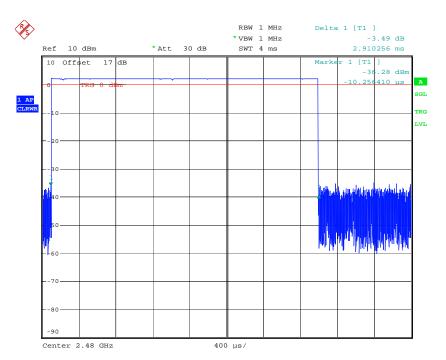
DWELL TIME CH78 DH3 (1.653ms * 160event = 264.48ms)

Date: 20.MAY.2009 09:14:41



Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



DWELL TIME CH78 DH5 (2.910ms * 110event = 320.1ms)

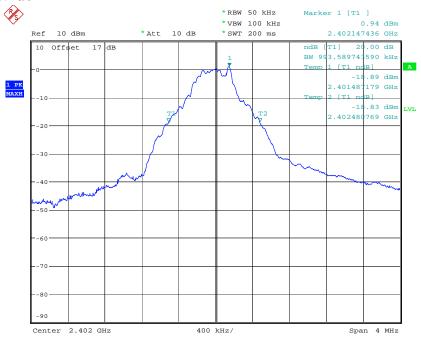
Date: 20.MAY.2009 09:18:27

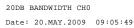


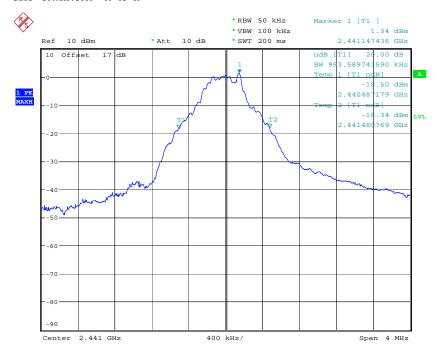
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

20dB Bandwidth







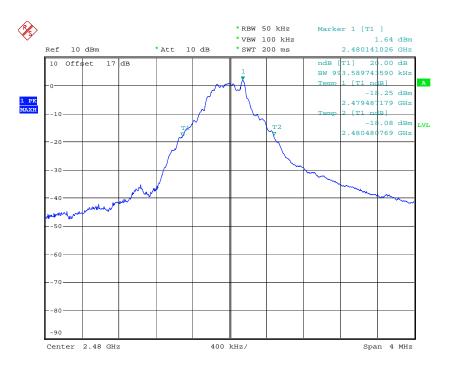
20DB BANDWIDTH CH39

Date: 20.MAY.2009 09:06:31



Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



20DB BANDWIDTH CH78
Date: 20.MAY.2009 09:07:17

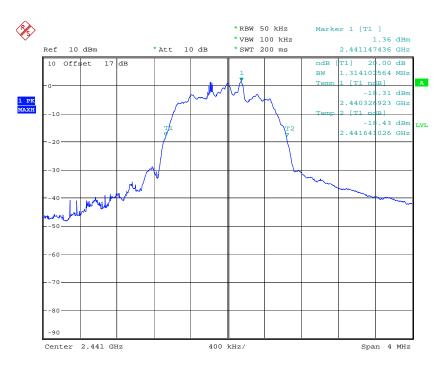


20DB BANDWIDTH CH0 EDR MODE Date: 20.MAY.2009 09:09:28

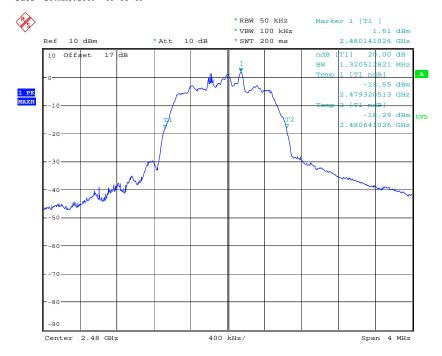


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



20DB BANDWIDTH CH39 EDR MODE Date: 20.MAY.2009 09:08:40



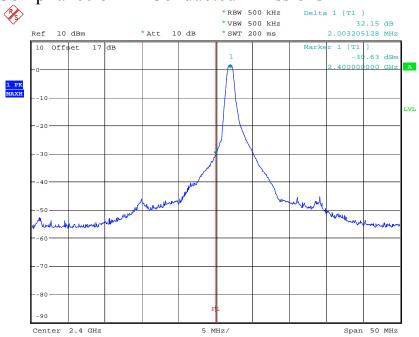
20DB BANDWIDTH CH78 EDR MODE Date: 20.MAY.2009 09:08:02

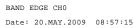


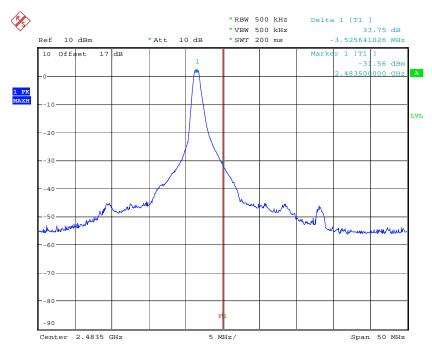
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

Band-edge Compliance of RF Conducted Emissions







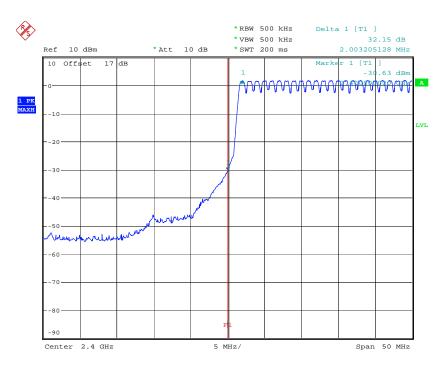
BAND EDGE CH78

Date: 20.MAY.2009 09:03:08

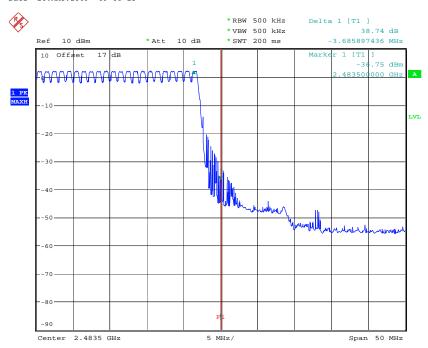


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



BAND EDGE CH0 HOPPING MODE
Date: 20.MAY.2009 09:00:13

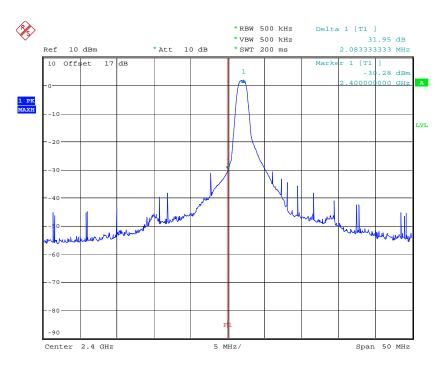


BAND EDGE CH78 HOPPING MODE Date: 20.MAY.2009 09:02:25



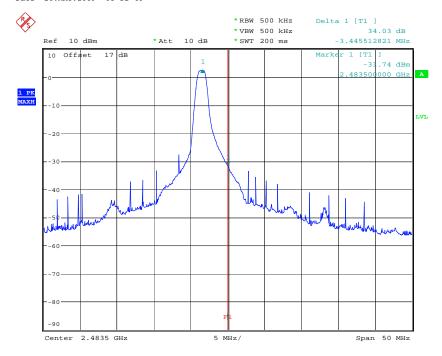
Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



BAND EDGE CH0 EDR MODE

Date: 20.MAY.2009 08:51:40

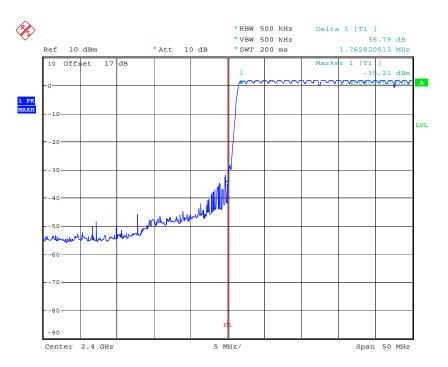


BAND EDGE CH78 EDR MODE
Date: 20.MAY.2009 08:50:55

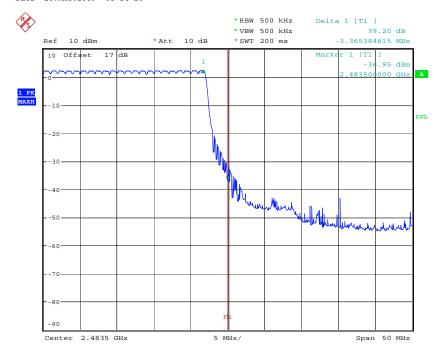


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



BAND EDGE CH0 EDR HOPPING MODE Date: 20.MAY.2009 08:54:26



BAND EDGE CH78 EDR HOPPING MODE Date: 20.MAY.2009 08:50:16

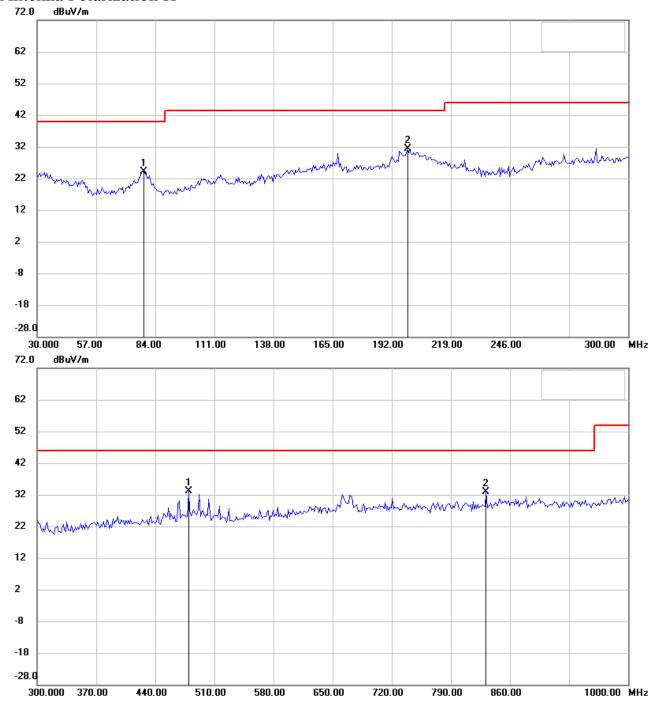


Registration number: W6M20905-9766-P-15

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Spurious Emissions radiated_ Receiver Part CH 0

Antenna Polarization H



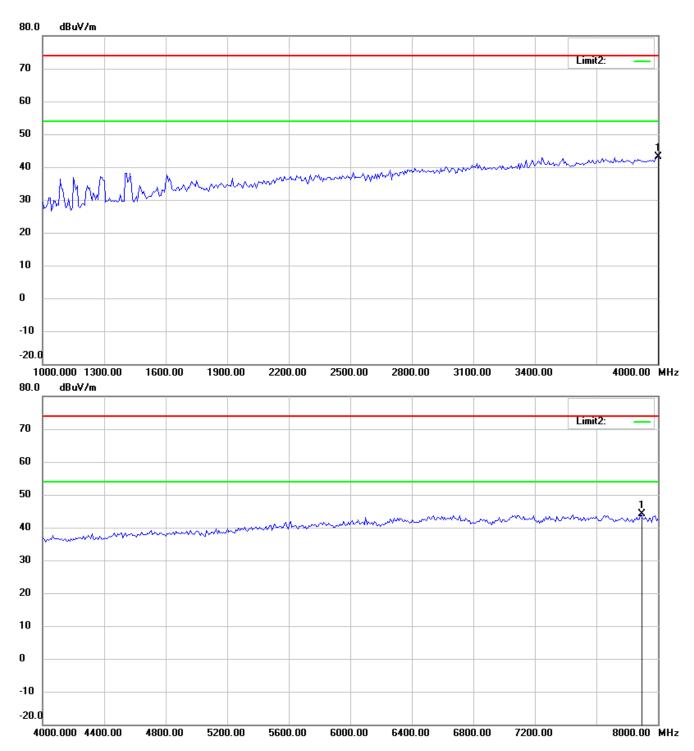
Up Line: Peak Limit Line Down Line: Ave Limit Line

- Note:
 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.



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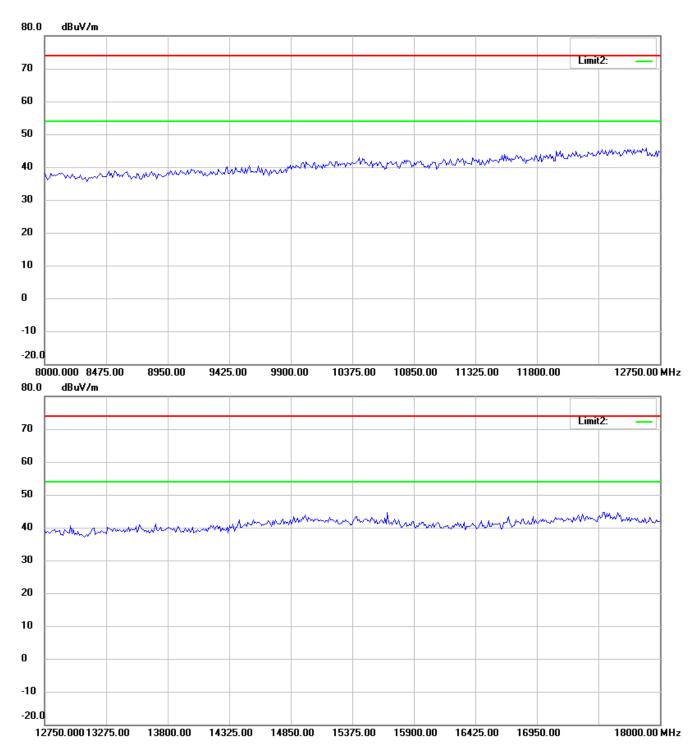
Up Line: Peak Limit Line Down Line: Ave Limit Line

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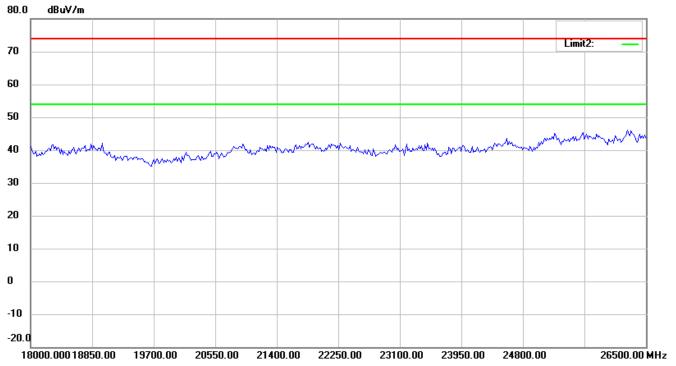
Up Line: Peak Limit Line Down Line: Ave Limit Line

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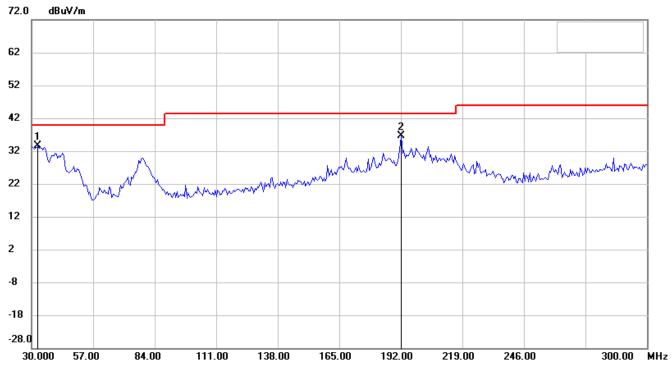


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Antenna Polarization V



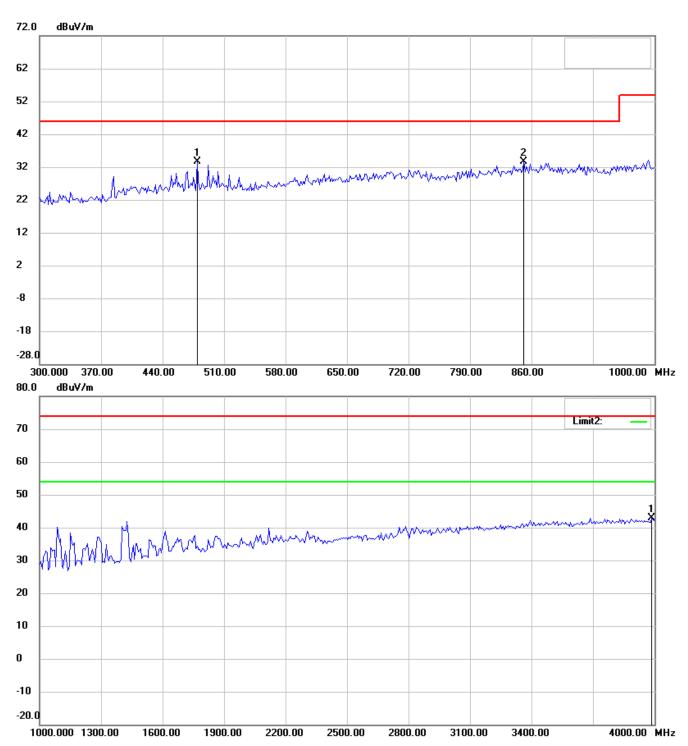
Up Line: Peak Limit Line Down Line: Ave Limit Line

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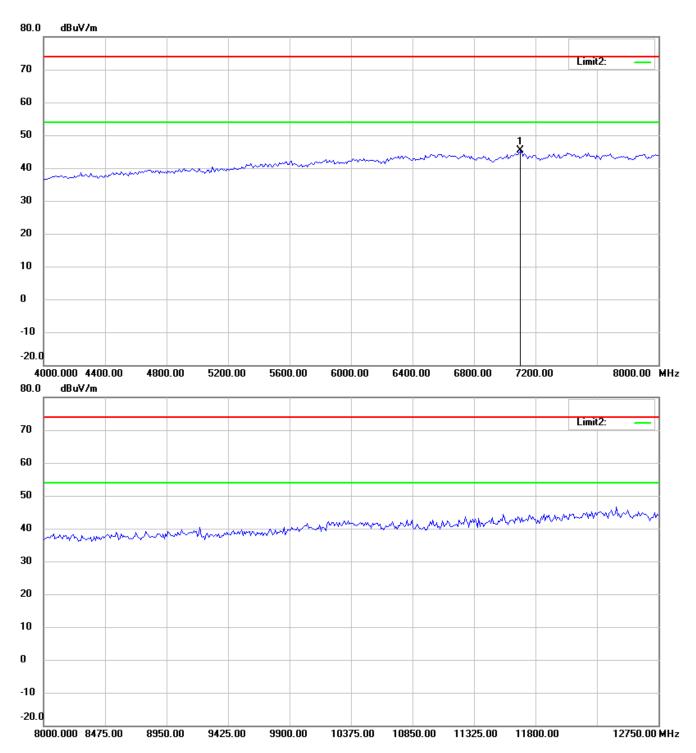
Up Line: Peak Limit Line Down Line: Ave Limit Line

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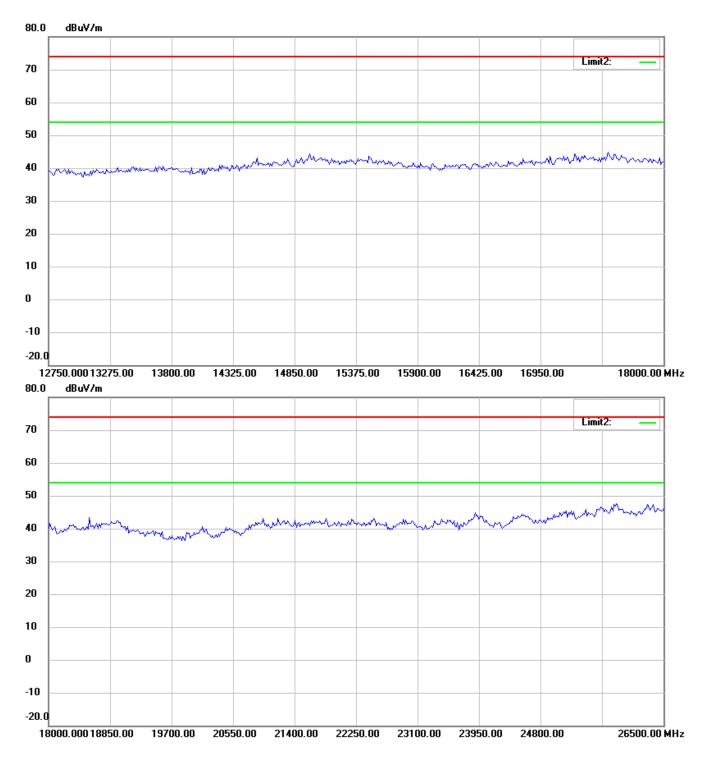
Up Line: Peak Limit Line Down Line: Ave Limit Line

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Up Line: Peak Limit Line Down Line: Ave Limit Line

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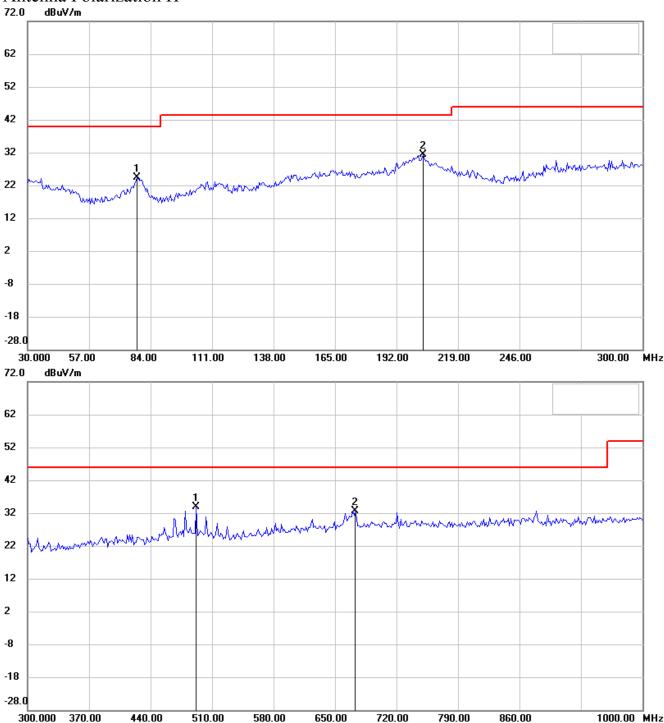


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FCC ID: XEH-BTA3011M01

CH 39

Antenna Polarization H



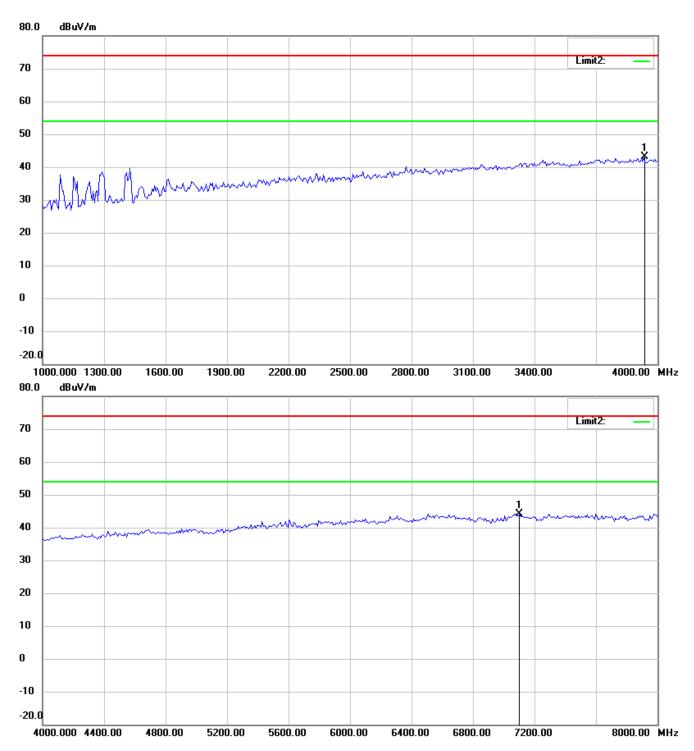
Up Line: Peak Limit Line Down Line: Ave Limit Line

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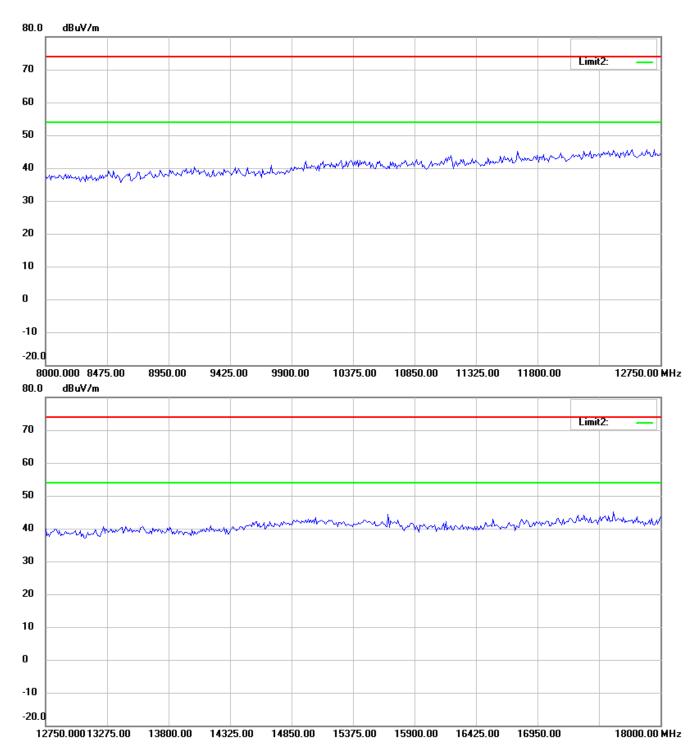
Up Line: Peak Limit Line Down Line: Ave Limit Line

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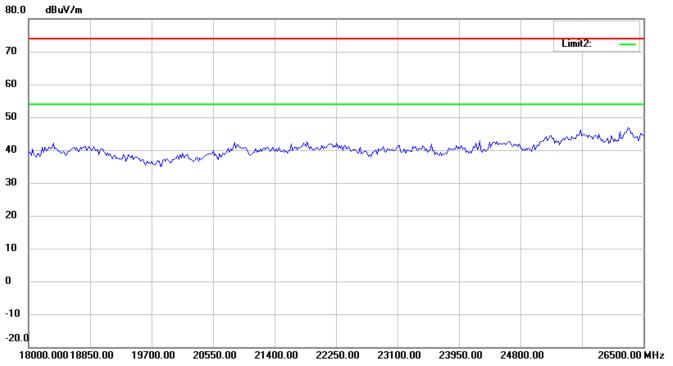
Up Line: Peak Limit Line Down Line: Ave Limit Line

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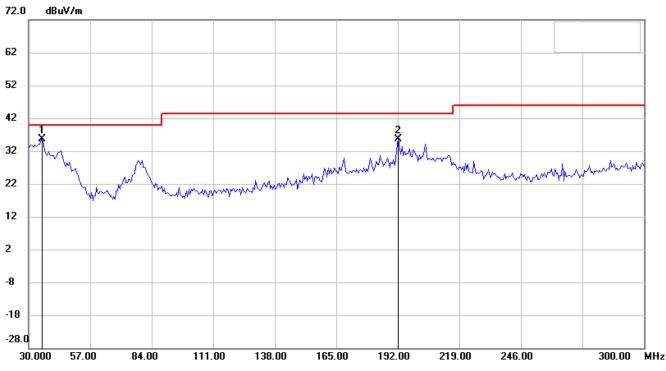


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Antenna Polarization V



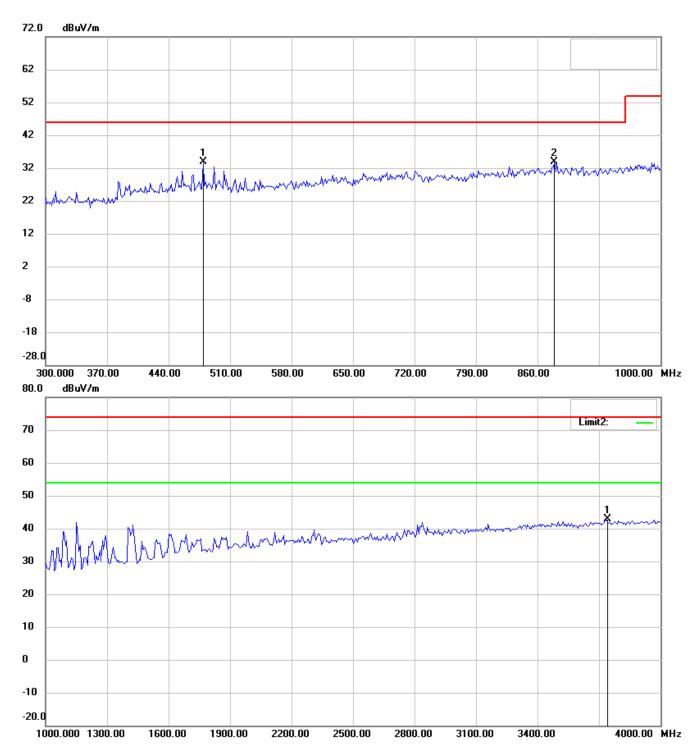
Up Line: Peak Limit Line Down Line: Ave Limit Line

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FCC ID: XEH-BTA3011M01



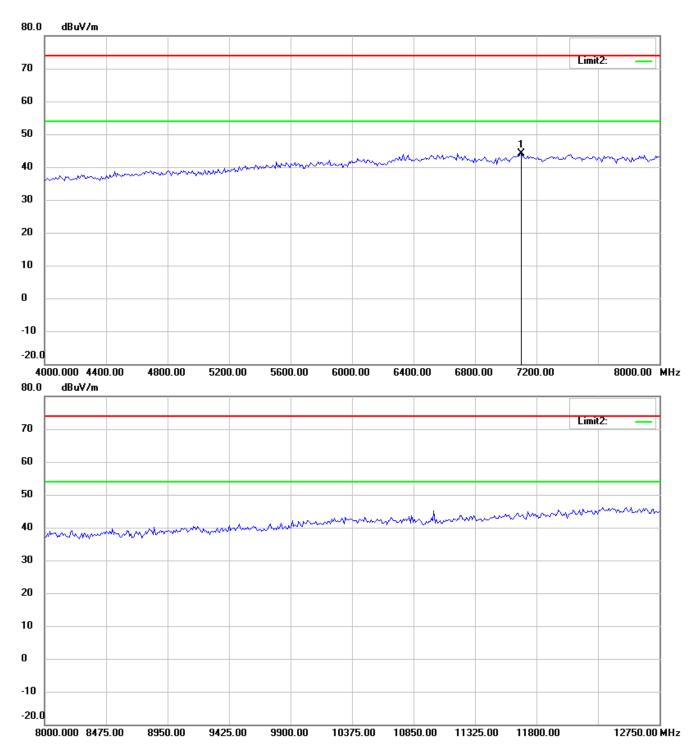
Up Line: Peak Limit Line Down Line: Ave Limit Line

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FCC ID: XEH-BTA3011M01



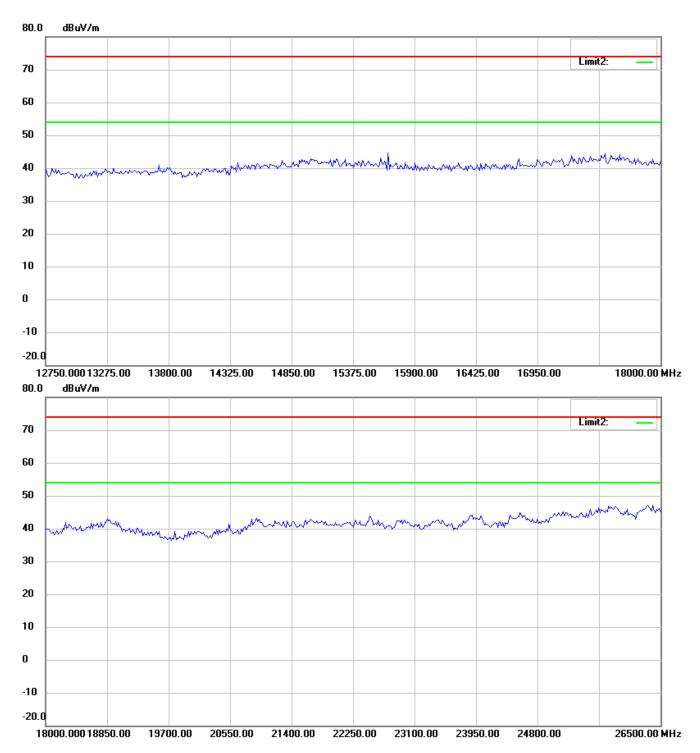
Up Line: Peak Limit Line Down Line: Ave Limit Line

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Up Line: Peak Limit Line Down Line: Ave Limit Line

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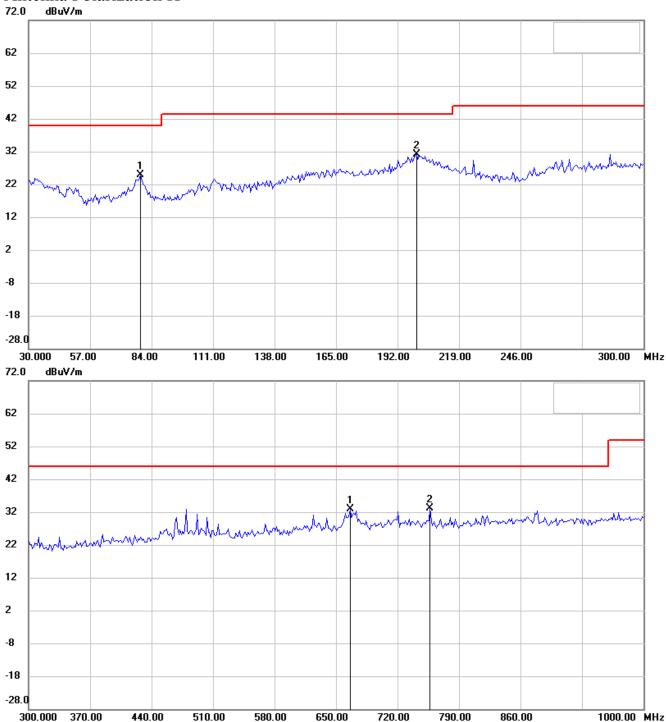


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01

CH 78

Antenna Polarization H



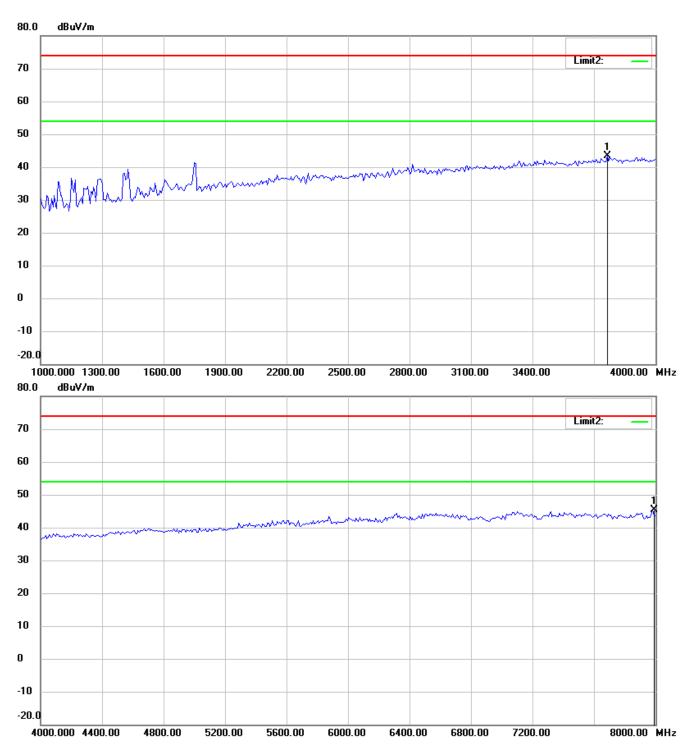
Up Line: Peak Limit Line Down Line: Ave Limit Line

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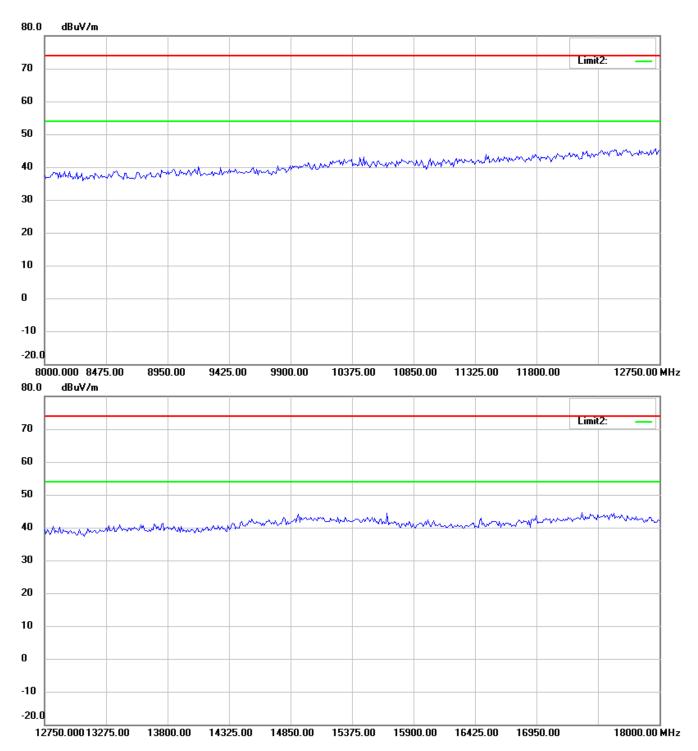
Up Line: Peak Limit Line Down Line: Ave Limit Line

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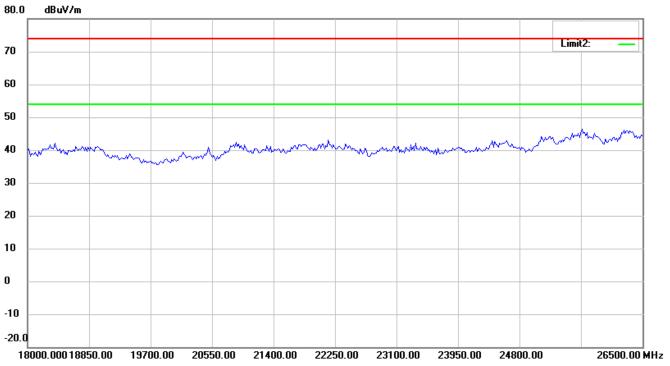
Up Line: Peak Limit Line Down Line: Ave Limit Line

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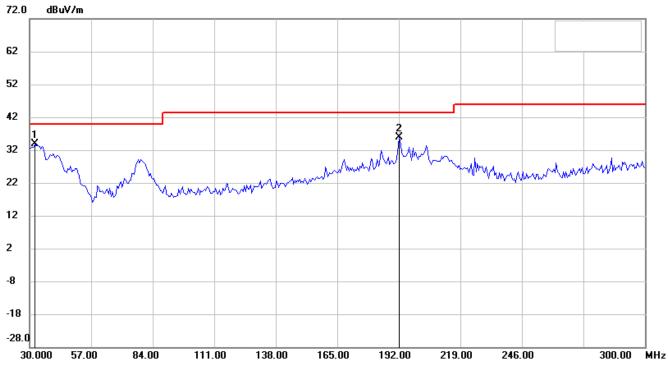


Registration number: W6M20905-9766-P-15

FCC ID: XEH-BTA3011M01



Antenna Polarization V



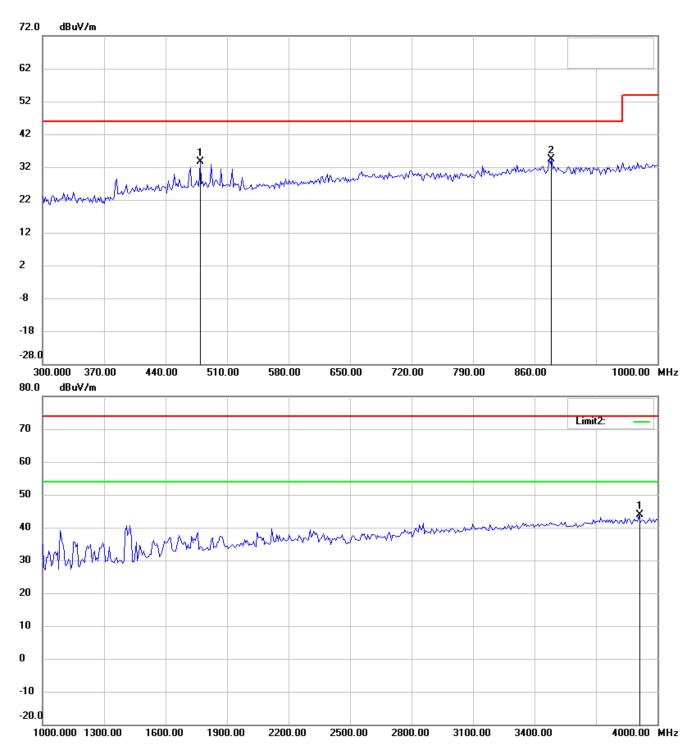
Up Line: Peak Limit Line Down Line: Ave Limit Line

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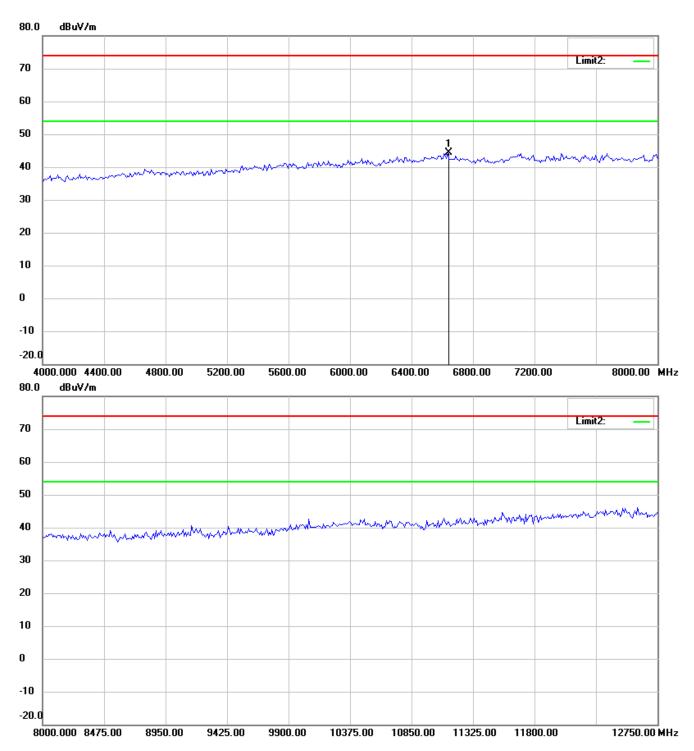
Up Line: Peak Limit Line Down Line: Ave Limit Line

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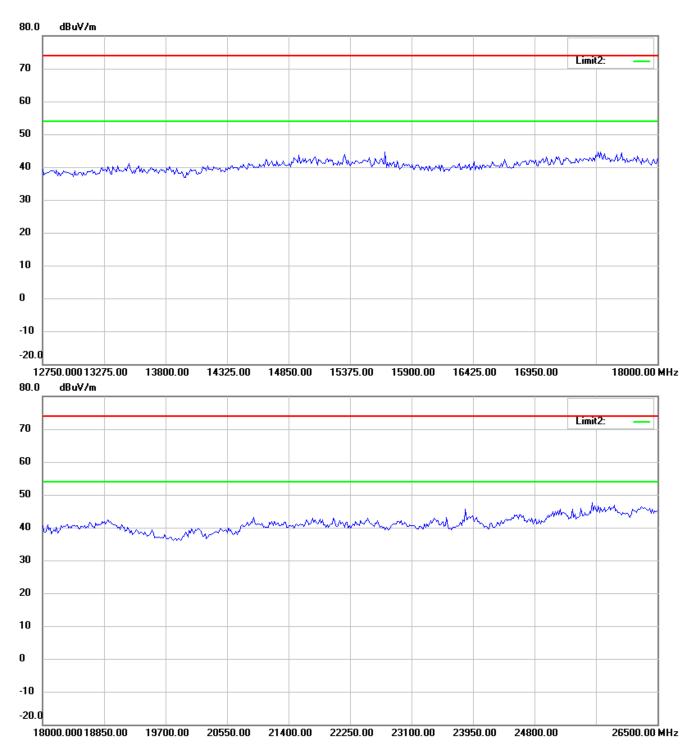
Up Line: Peak Limit Line Down Line: Ave Limit Line

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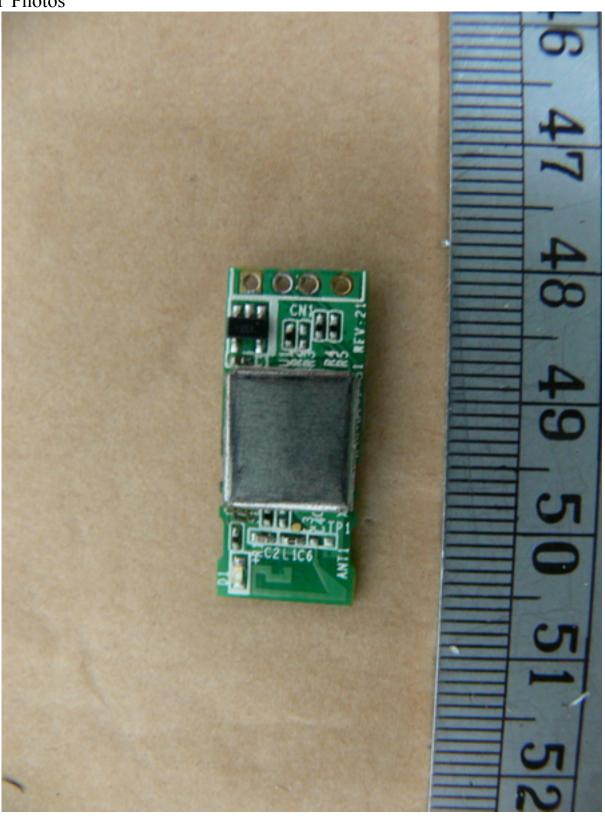
Up Line: Peak Limit Line Down Line: Ave Limit Line

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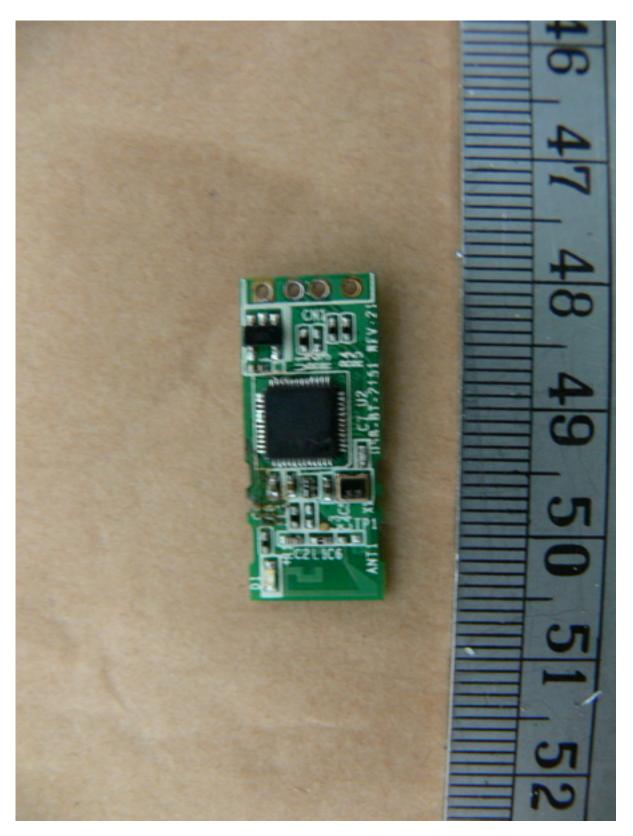
EUT Photos





Registration number: W6M20905-9766-P-15

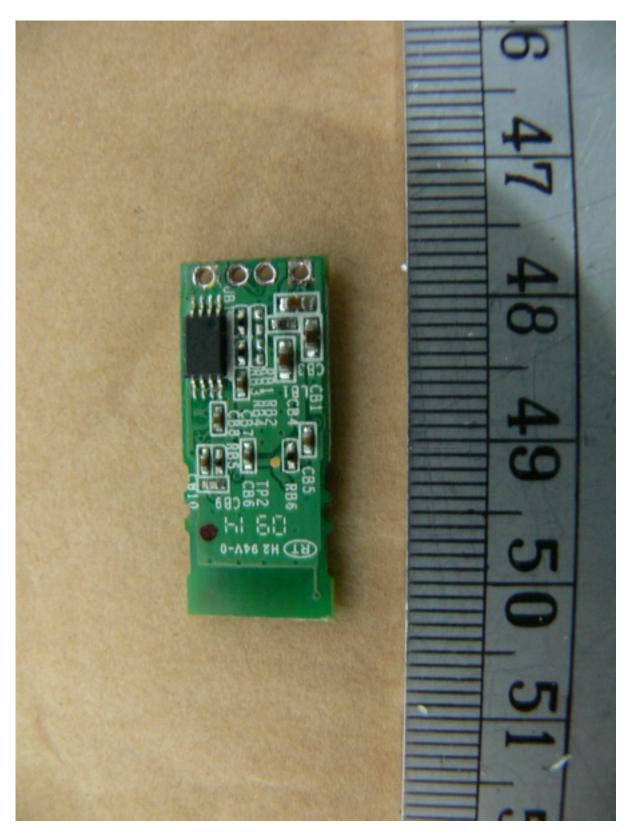
FCC ID: XEH-BTA3011M01





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Set Up Photo of Radiated Emission



