FCC PART 15 SUBPART C TEST REPORT

for

BLE Module

Model No.: CHY2400M

FCC ID: VEACHY2400M

of

Applicant: CHY FIREMATE CO., LTD.

Address: No.3 Sheng-Li 1st Street, Xintian Village, Rende District,
Tainan City, Taiwan R.O.C.

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01





Report No.: W6M21402-13968-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

FCC ID: VEACHY2400M

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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.

Specific Conditions:

Tester:

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

April 10, 2014	Mark Cheng	Mark	Cheng.	
			V	

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

April 10, 2014 Kevin Wang

Date WTS Name Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228 FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd. 6F, NO. 58, LANE 188, RUEY-KUANG RD. NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877 Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

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





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

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.

1.3 Details of approval holder

Name: CHY FIREMATE CO., LTD.

Street: No.3 Sheng-Li 1st Street, Xintian Village,

Town: Rende District, Tainan City,

Country: Taiwan R.O.C.
Telephone: +886-6-279-4811
Fax: +886-6-270-0227

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1.4 Application details

••						
Date of receipt of test item:	March 24, 2014					
Date of test:	from March 25, 2014 to April 10, 2014					
1.5 General information of	Гest item					
Type of test item:	BLE Module					
Model Number:	CHY2400M					
Brand Name:	CHY					
Multi-listing model number:	./.					
Photos:	see Appendix					
Technical data						
Frequency band:	2402 MHz – 2480 MHz					
Frequency (ch 0 or A):	2402 MHz					
Frequency (ch 19 or B):	2440 MHz					
Frequency (ch 39 or C):	2480 MHz					
Number of Channels:	40					
Operation modes:	Duplex					
Modulation Type:	GFSK					
Fixed point-to-point operation:	☐ Yes / ⊠ No					
Type of Antenna:	PCB antenna					
Antenna gain:	4.33 dBi					
Power supply:	3Vdc (5Vdc from testing peripheral board)					
Emission designator:	1M33G1D					
Host device:	none					
Classification :						
Fixed Device						
Mobile Device (Hum	an Body distance > 20cm)					
Portable Device (Hur	nan Body distance < 20cm)					

Modular Radio Device

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

Power (ch 0 or A): Conducted: -2.38 dBm
Power (ch 19 or B): Conducted: -3.60 dBm
Power (ch 39 or C): Conducted: -5.16 dBm

Manufacturer: (if applicable)

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

Additional information: ./.

1.6 Test standards

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

FCC ID: VEACHY2400M **Technical test**

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	×
or	
The deviations as specified in 2.5 were ascertained in the course of the tests performed.	

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: 3Vdc (5Vdc from testing peripheral board)

Extreme conditions parameters: ./.



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2.3 Test Equipment List

No.	Test equipment	Туре	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	Function	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	2014/2/25	2015/2/24
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	2014/2/18	2015/2/17
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2014/3/3	2015/3/2
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	2014/3/3	2015/3/2
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	2014/3/3	2015/3/2
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	Functi	on test
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10	2015/1/09
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



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ETSTW-RE 126	5GHz Notch filter	5NSL11- 5800/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2014/3/3	2015/3/2
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	Pre-te	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.	2014/2/27	2015/2/26
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test I	Jse NCR
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2014/2/27	2015/2/26
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2014/2/19	2015/2/18
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2014/3/3	2015/3/2
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	2014/3/3	2015/3/2
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.	2014/2/19	2015/2/18
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2014/2/19	2015/2/18
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version E	ETS-03A1

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2.4 General Test Procedure

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

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

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of $dB\mu V$) 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 $20 dB\mu V + 10.36 dB + 6 dB = 36.36 dB\mu V/m @3m$

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

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

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

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

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



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

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = 20 log (dwell time/T)

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

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

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



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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	×	×	
Equivalent isotropically radiated Power	15.247(b)	×	×	
Spurious Emissions radiated – Transmitter operating	15.247(c):	×	×	
	15.209			
Band Edge Measurement	15.247(d)	×	×	
Minimum 6 dB Bandwidth	15.247(a)(2)	×	×	
Peak Power Spectral Density	15.247(e)	×	×	
Radiated Emission from Receiver Part	15.109	×	×	
Power Line Conducted Emission	15.207			

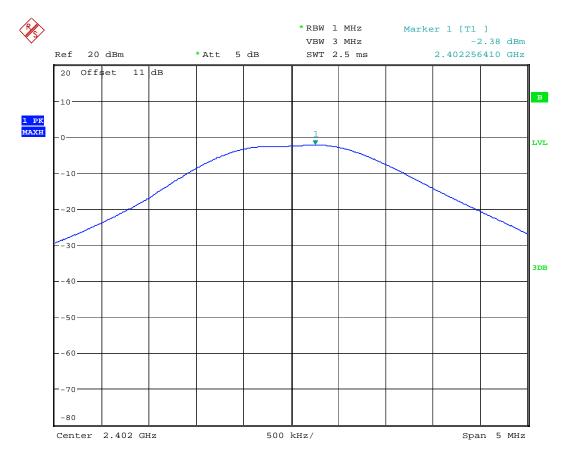
The following is intentionally left blank.

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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

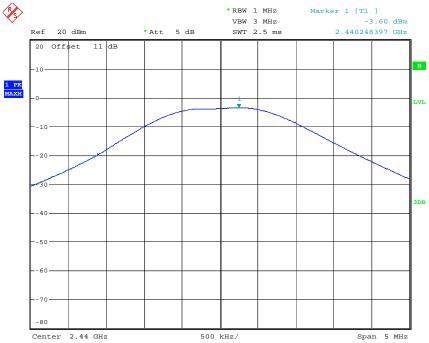


MAX OUTOUT POWER BT4.0 CH0 Date: 1.APR.2014 05:25:08

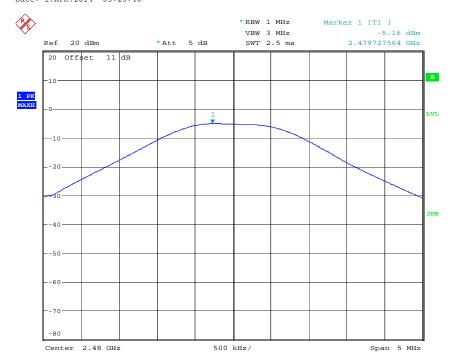


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MAX OUTOUT POWER BT4.0 CH19 Date: 1.APR.2014 05:25:40



MAX OUTOUT POWER BT4.0 CH39 Date: 1.APR.2014 05:26:04



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Limits:

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

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

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

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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = -2.38 dBm + (4.33 dBi)

= 1.95 dBm

Limit: EIRP = +36 dBm for Antenna gain < 6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

Conclusion: No Evaluation required if power is below this threshold:

F(G	mW	
Low	2.402	24.59
High	2.480	24.58

Maximum measured transmitter power:

Maximum measured transmitter p	0 W C1 .	
Conducted Power	-2.38 dBm	
	(0.5781 mW)	
EIRP Power	1.95 dBm	
	(1.5668 mW)	

• The antenna is PCB antenna, antenna gain is 4.33 dBi.

Threshold for no SAR evaluation is 24.58 mW.

Conclusion: No SAR evaluation required since Transmitter output power is below FCC threshold.

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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 26500 MHz.

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

Frequency ≤ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements) Frequency > 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements) Frequency > 1 GHz, RBW:1 MHz, VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

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

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

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

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

Explanation: See attached diagrams in Appendix.

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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))

FCC Rule: 15.247(c), 15.35

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

Limits:

For frequencies above 1GHz (Peak measurements).

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

For frequencies above 1GHz (Average measurements). Max. reading – 20dB

Max. reading – 20 dB

Guidance on Measurement of Digit Transmission Systems:

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

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

Duty Cycle correction = 20 log (dwell time/100ms)

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



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

in accordance with point 2.3.

Calculation of test results:

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

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

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

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

Summary table with radiated data of the test plots

Model: Mode: Polarization:		CHY2400M X- 2402MHz		Date: Temperature: Humidity:	2014/4 24 60	/2 °C %	Engineer:	Leon
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6332	11.88	peak	15.18	27.06	43.50	-16.44	155	100
288.5371	18.34	peak	15.75	34.09	46.00	-11.91	90	100

			Factor Docult					Margin	T 11	
Frequency	Rea	ding	Factor	Res	Result		Limit		Table	Ant.
	(dB	uV)	(dB)	(dB) (dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4801.6030	47.43		0.27	47.70		74.00	54.00	-26.30	70	100
7206.0000	41.14		3.85	44.99		74.00	54.00	-29.01	155	100
9608.0000	34.98		7.93	42.91		74.00	54.00	-31.09	210	100
12010.0000	33.51		12.65	46.16		74.00	54.00	-27.84	175	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	16.08	peak	10.49	26.57	43.50	-16.93	80	100
146.6332	15.43	peak	15.18	30.61	43.50	-12.89	175	100

Frequency	Rea	Reading		Res	Result		Limit		Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4801.6030	45.75		0.27	46.02		74.00	54.00	-27.98	130	100
7206.0000	41.06		3.85	44.91		74.00	54.00	-29.09	115	100
9608.0000	34.17		7.93	42.10		74.00	54.00	-31.90	70	100
12010.0000	34.53		12.65	47.18		74.00	54.00	-26.82	95	100



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Mode: TX - 2440MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
140.8015	11.83	peak	14.95	26.78	43.50	-16.72	140	100
290.4810	17.96	peak	15.80	33.76	46.00	-12.24	60	100

Frequency	Rea	Reading		Re	sult	Limit		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4881.7640	47.68		0.47	48.15		74.00	54.00	-25.85	130	100
7320.0000	40.03		3.65	43.68		74.00	54.00	-30.32	155	100
9760.0000	33.76		8.29	42.05		74.00	54.00	-31.95	195	100
12200.0000	33.62		13.72	47.34		74.00	54.00	-26.66	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
78.5972	17.32	peak	10.06	27.38	40.00	-12.62	115	100
146.6333	14.11	peak	15.18	29.29	43.50	-14.21	130	100

Frequency	Reading		Factor	Re	Result		Limit		Table	Ant.
	(dB	uV)	(dB)	(dBu	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4881.7640	47.32		0.47	47.79		74.00	54.00	-26.21	140	100
7320.0000	40.23		3.65	43.88		74.00	54.00	-30.12	125	100
9760.0000	34.18		8.29	42.47		74.00	54.00	-31.53	115	100
12226.4530	34.75		13.90	48.65		74.00	54.00	-25.35	170	100

Mode: TX-2480MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
140.8015	12.14	peak	14.95	27.09	43.50	-16.41	60	100
286.5932	18.14	peak	15.69	33.83	46.00	-12.17	135	100

Frequency	Reading		Factor	Re	Result		Limit		Table	Ant.
	(dB	uV)	(dB)	(dBu	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4953.9080	45.34		0.84	46.18		74.00	54.00	-27.82	70	100
7440.0000	40.65		3.93	44.58		74.00	54.00	-29.42	55	100
9920.0000	33.99		8.50	42.49		74.00	54.00	-31.51	135	100
12400.0000	32.86		14.46	47.32		74.00	54.00	-26.68	90	100



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
84.4290	17.75	peak	9.40	27.15	40.00	-12.85	70	100
144.6894	14.43	peak	15.10	29.53	43.50	-13.97	115	100

Frequency	Rea	Reading		Re	Result		Limit		Table	Ant.
	(dBuV)		(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
4953.9080	47.81		0.84	48.65		74.00	54.00	-25.35	140	100
7440.0000	40.33		3.93	44.26		74.00	54.00	-29.74	175	100
9920.0000	34.24		8.50	42.74		74.00	54.00	-31.26	100	100
12400.0000	33.11		14.46	47.57		74.00	54.00	-26.43	135	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 for 3m measurement: 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. Please see attached diagrams in Appendix.

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

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

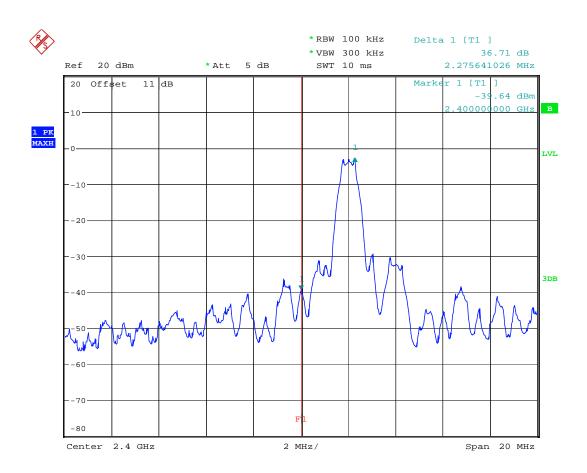
ETSTW-RE 088, ETSTW-RE 018

FCC ID: VEACHY2400M

3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) 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.



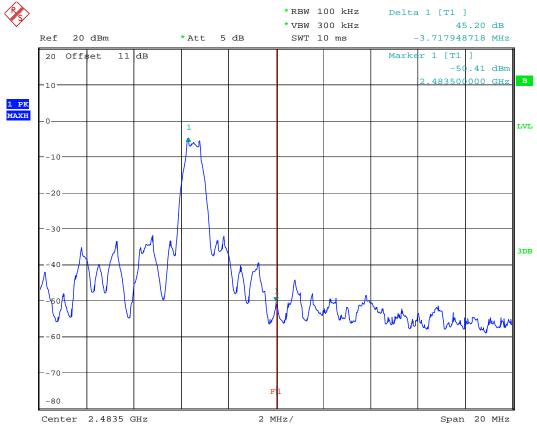
BANDEDGE BT4.0 CH0

Date: 1.APR.2014 05:33:33



Registration number: W6M21402-13968-C-1





BANDEDGE BT4.0 CH39

Date: 1.APR.2014 05:32:46

Limit:

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

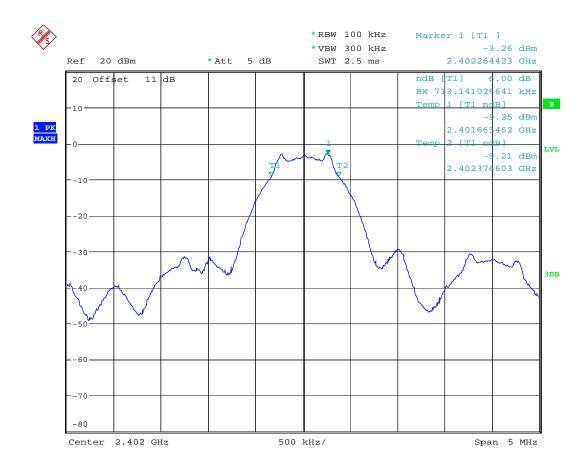
Test equipment used: ETSTW-RE 055, ETSTW-RE 050

FCC ID: VEACHY2400M

3.7 Minimum 6 dB Bandwidth

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

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



6DB BANDWIDTH BT4.0 CH0
Date: 1.APR.2014 05:30:36

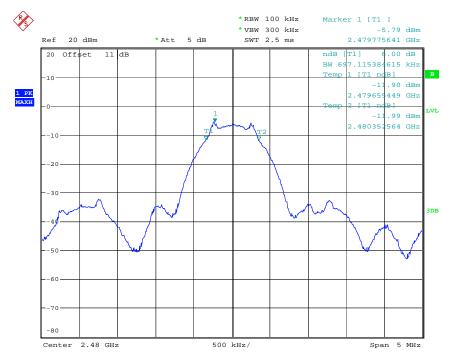


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



6DB BANDWIDTH BT4.0 CH19 Date: 1.APR.2014 05:30:11



6DB BANDWIDTH BT4.0 CH39
Date: 1.APR.2014 05:30:56



Registration number: W6M21402-13968-C-1 FCC ID: VEACHY2400M

Limits:

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

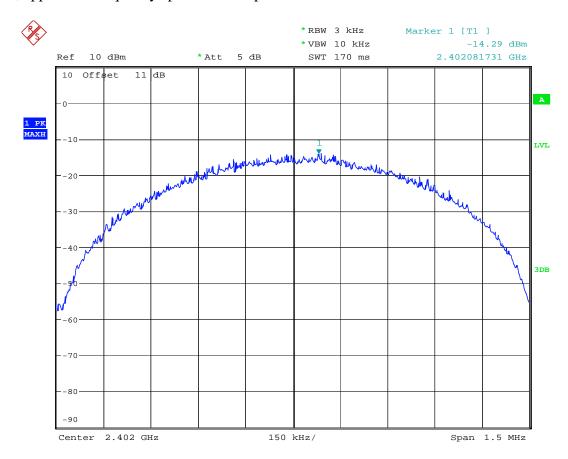
Test equipment used: ETSTW-RE 055, ETSTW-RE 050

FCC ID: VEACHY2400M

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

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

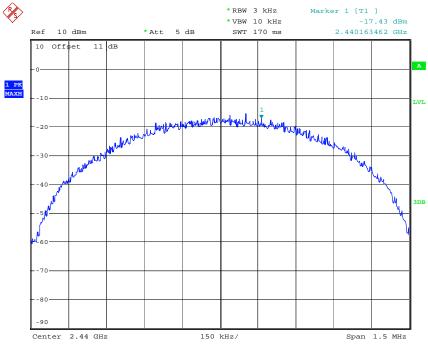


POWER DENSITY BT4.0 CH0
Date: 1.APR.2014 05:24:12

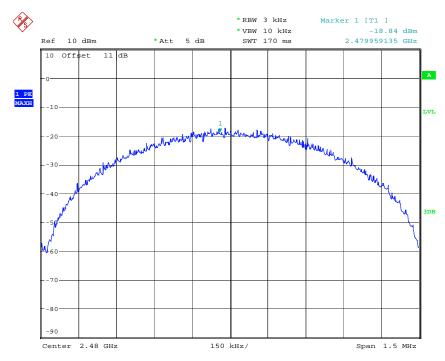


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



POWER DENSITY BT4.0 CH19
Date: 1.APR.2014 05:28:48



POWER DENSITY BT4.0 CH39
Date: 1.APR.2014 05:28:27



FCC ID: VEACHY2400M

Limits:

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

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



FCC ID: VEACHY2400M

3.9 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.

Model: CHY2400M Date: -
Mode: -- Temperature: -- °C Engineer: -
Polarization: N Humidity: -- %

Frequency	Rea	ading	Factor	r Result		Lir	nit	Margin
	(dE	3uV)	(dB)	(df	BuV)	(dB	uV)	_
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
							-	

Polarization: L1

Frequency			Factor			Limit		Margin
	(dBuV)		(dB)	(dB	uV)	(dB	uV)	
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)

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. This test is not required because there is no AC power line or signal line for this EUT.

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 016, ETSTW-RE 045



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

3.10 Radiated Emissions from Receiver Part

FCC Rule: 15.109

Model: CHY2400M Date: 2014/4/2

Mode: RX- 2402MHz Temperature: 24 °C Engineer: Leon

Polarization: Horizontal Humidity: 60 %

i olarization.	TIOTIZOTILLI			riairiiaity.	00	70		
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6332	13.50	peak	15.18	28.68	43.50	-14.82	155	100
234.1082	14.82	peak	14.02	28.84	46.00	-17.16	190	100
288.5371	19.41	peak	15.75	35.16	46.00	-10.84	70	100
366.2925	14.73	peak	17.66	32.39	46.00	-13.61	130	100

Frequency	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin		Ant. High
(MHz)	Peàk	Áve.	Ċorr.	Peak	Áve.	Peak	Áve.	(dB)	(Deg.)	(cm)
1294.5890	42.33		-9.16	33.17		74.00	54.00	-40.83	110	100
1561.1220	43.36		-8.61	34.75		74.00	54.00	-39.25	135	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
78.5972	16.43	peak	10.06	26.49	40.00	-13.51	130	100
98.0361	16.37	peak	10.49	26.86	43.50	-16.64	60	100
146.6333	14.46	peak	15.18	29.64	43.50	-13.86	145	100
282.7053	14.57	peak	15.58	30.15	46.00	-15.85	120	100

Frequency	(dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin		Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Äve.	Peak	Ave.	(dB)	(Deg.)	(cm)
1364.7290	42.23		-9.28	32.95		74.00	54.00	-41.05	50	100
1561.1220	42.95		-8.61	34.34		74.00	54.00	-39.66	115	100

Mode: RX- 2441MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
43.6071	5.84	peak	14.05	19.89	40.00	-20.11	170	100
146.6332	12.30	peak	15.18	27.48	43.50	-16.02	130	100
282.7053	18.39	peak	15.58	33.97	46.00	-12.03	85	100
366.2925	15.16	peak	17.66	32.82	46.00	-13.18	120	100



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Frequency	Reading (dBuV)		Factor (dB)		Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Table Degree	Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Äve.	Peak	Äve.	(dB)	(Deg.)	(cm)
1294.5890	42.32		-9.16	33.16		74.00	54.00	-40.84	120	100
1547.0940	43.28		-8.71	34.57		74.00	54.00	-39.43	145	100

Polarization: Vertical

1 Glarization								
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
80.5411	17.16	peak	9.79	26.95	40.00	-13.05	115	100
146.6333	14.11	peak	15.18	29.29	43.50	-14.21	90	100
288.5371	14.69	peak	15.75	30.44	46.00	-15.56	130	100
445.9920	9.55	peak	20.07	29.62	46.00	-16.38	145	100

Frequency	Rea (dB		Factor (dB)		: @3m V/m)		@3m V/m)	Margin		Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Äve.	Peak	Ave.	(dB)	(Deg.)	(cm)
1098.1960	46.38		-8.90	37.48		74.00	54.00	-36.52	105	100
1561.1220	43.31		-8.61	34.70		74.00	54.00	-39.30	170	100

Mode: RX- 2480MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
146.6332	13.00	peak	15.18	28.18	43.50	-15.32	170	100
232.1642	15.22	peak	13.98	29.20	46.00	-16.80	125	100
282.7053	18.23	peak	15.58	33.81	46.00	-12.19	140	100
366.2925	15.86	peak	17.66	33.52	46.00	-12.48	90	100

Frequency	Read (dB)		Factor (dB)		: @3m V/m)		@3m V/m)	Margin		Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Äve.	Peak	Äve.	(dB)	(Deg.)	(cm)
1294.5890	41.94		-9.16	32.78		74.00	54.00	-41.22	135	100
1561.1220	43.50		-8.61	34.89		74.00	54.00	-39.11	70	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
80.5411	16.86	peak	9.79	26.65	40.00	-13.35	135	100
146.6333	14.33	peak	15.18	29.51	43.50	-13.99	50	100
166.0721	11.94	peak	15.03	26.97	43.50	-16.53	120	100
284.6492	15.80	peak	15.63	31.43	46.00	-14.57	140	100



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FCC ID: VEACHY2400M

Frequency	Rea (dB		Factor (dB)		: @3m V/m)		@3m V/m)	Margin		Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Äve.	Peak	Ave.	(dB)	(Deg.)	(cm)
1238.4770	43.03		-9.37	33.66		74.00	54.00	-40.34	60	100
1561.1220	43.09		-8.61	34.48		74.00	54.00	-39.52	115	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: $30\text{-}1000 \text{ MHz} = \pm 3.72 \text{ dB}$, $1\text{-}18 \text{ GHz} = \pm 5.56 \text{ dB}$, $18\text{-}40 \text{ GHz} = \pm 3.46 \text{ dB}$; 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.

Summary table with radiated data of the test plots

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

FCC ID: VEACHY2400M

Appendix

A. Measurement diagrams

Spurious Emissions radiated

B. Photos

- 1. EUT photos
- 2. Set Up photo of Radiated Emission

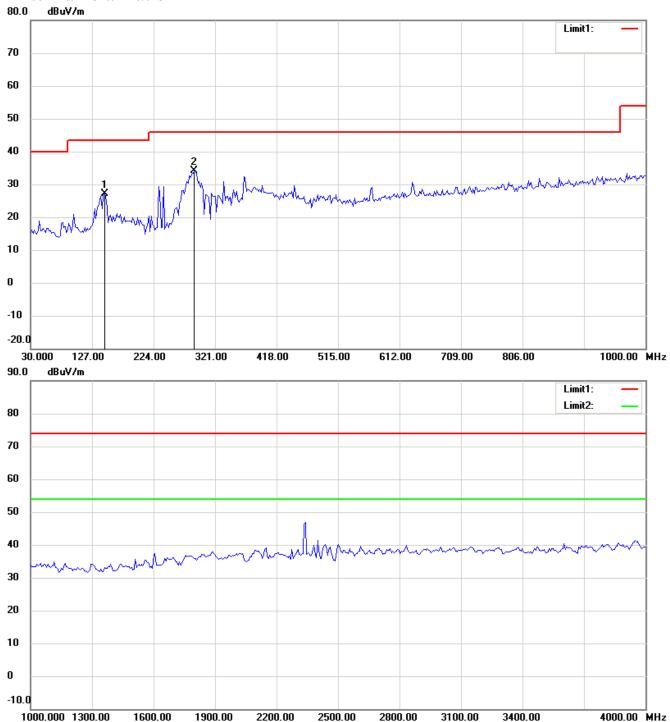


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Radiated Emission_Transmitter TX Bluetooth Low Energy_CH0

Antenna Polarization H



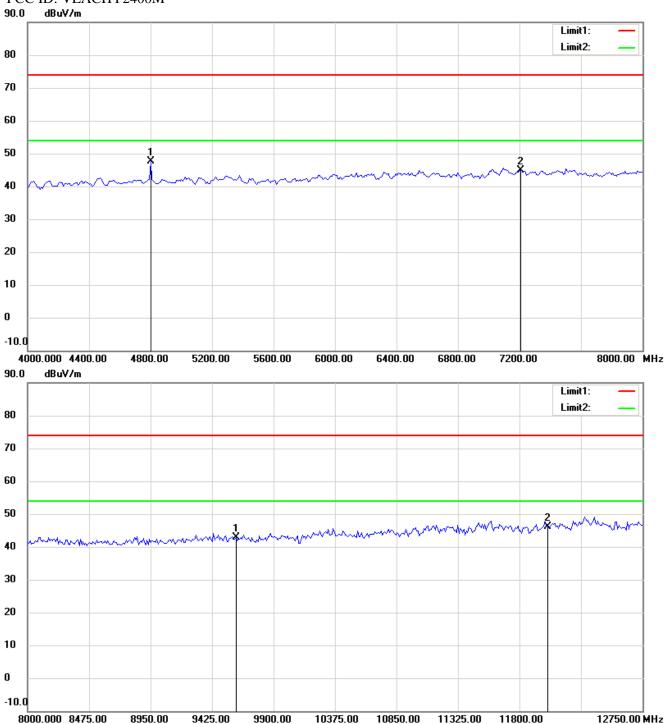
Up Line: Peak Limit Line; Down Line: Ave Limit Line Note:

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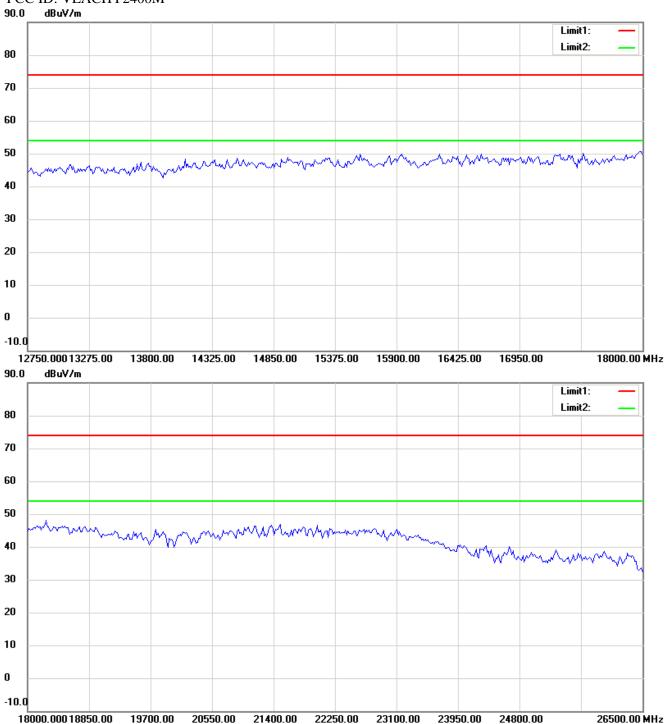
Up Line: Peak Limit Line; Down Line: Ave Limit Line Note:

- 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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FCC ID: VEACHY2400M

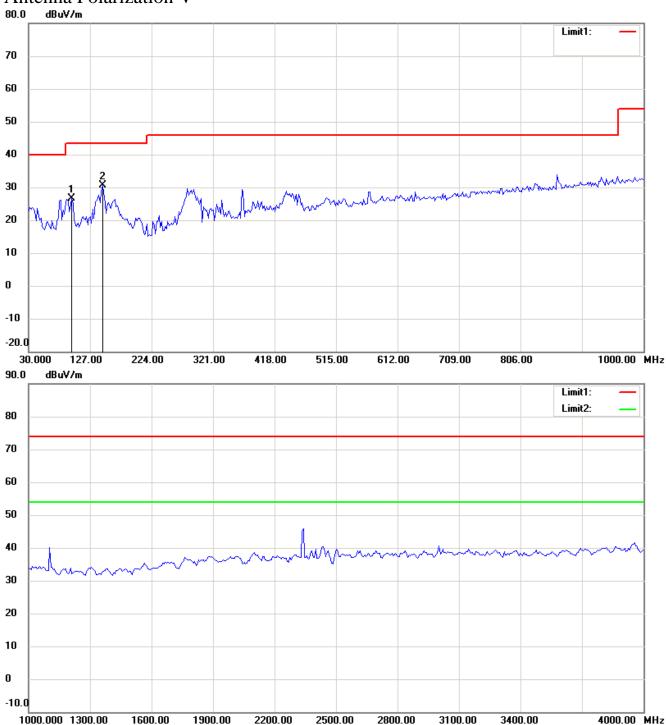


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M Antenna Polarization V

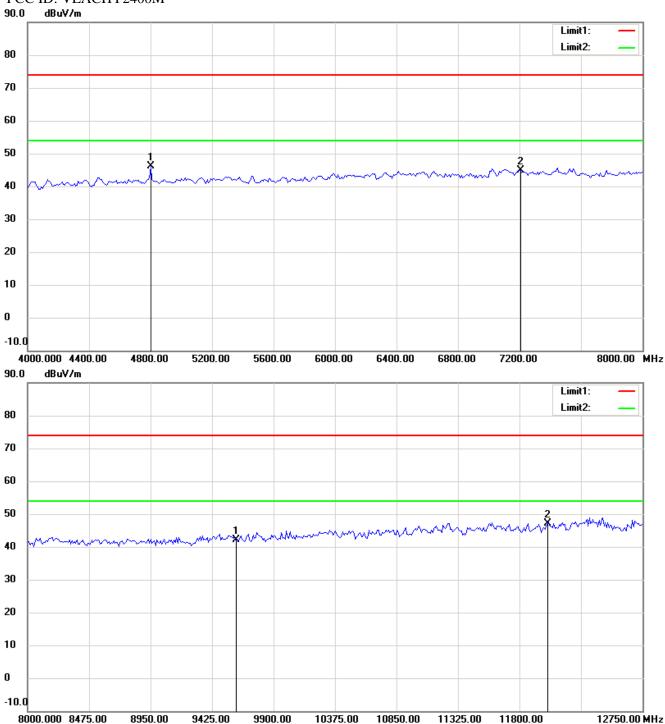


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

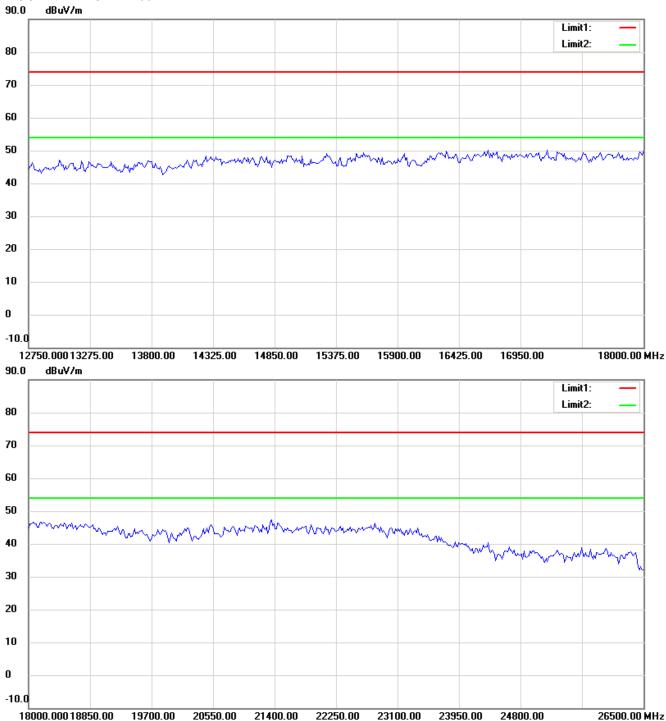


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



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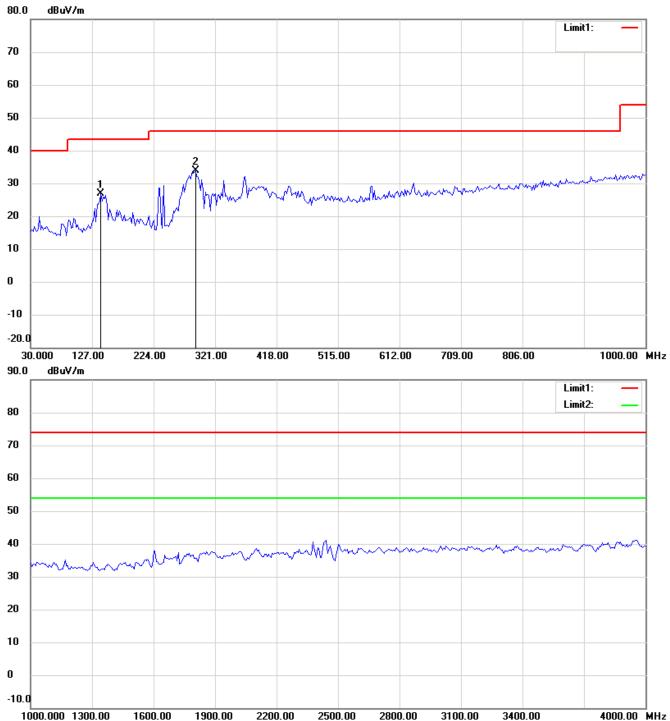


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

TX Bluetooth Low Energy_CH19

Antenna Polarization H

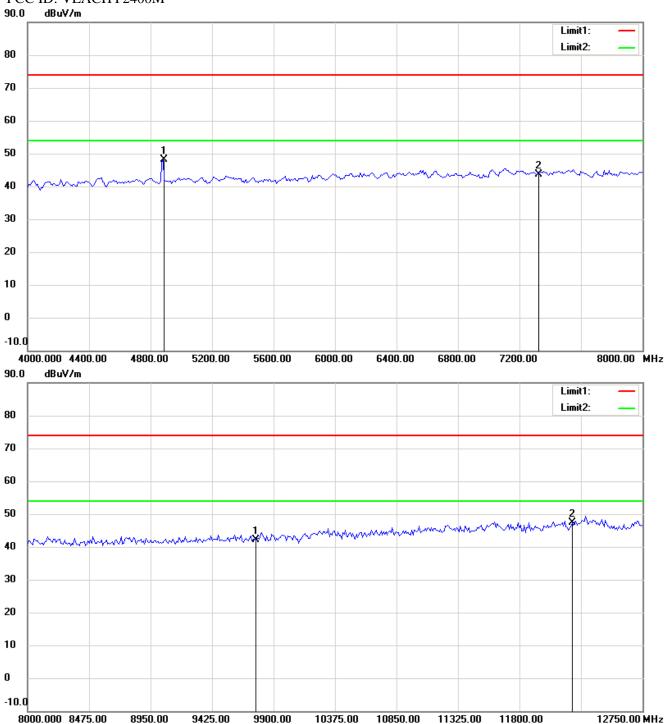


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

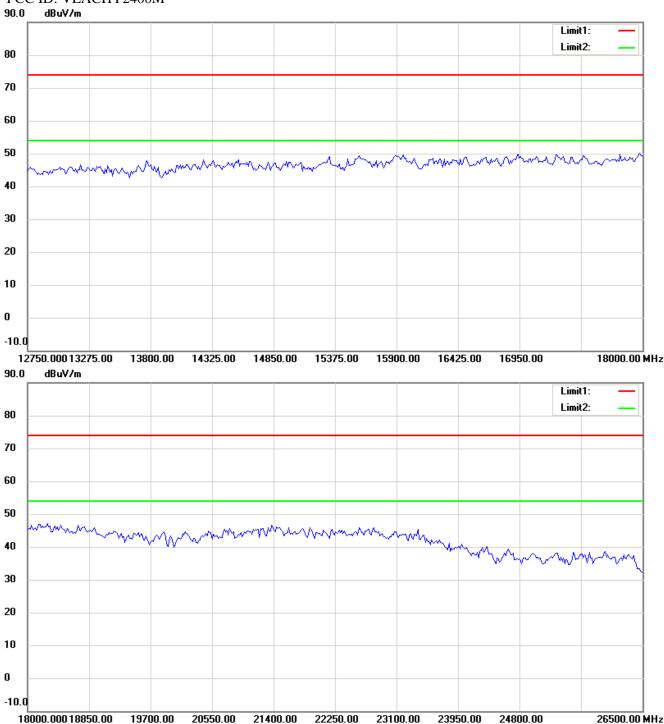


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

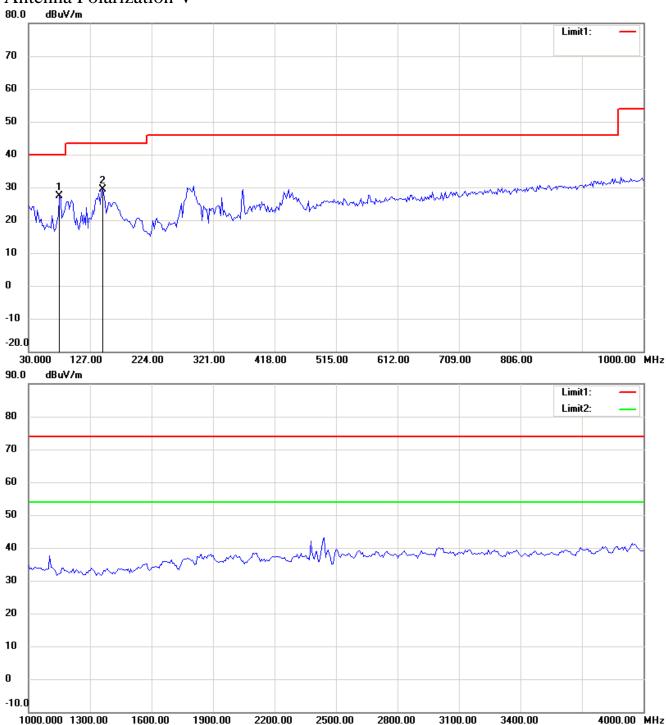


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M Antenna Polarization V

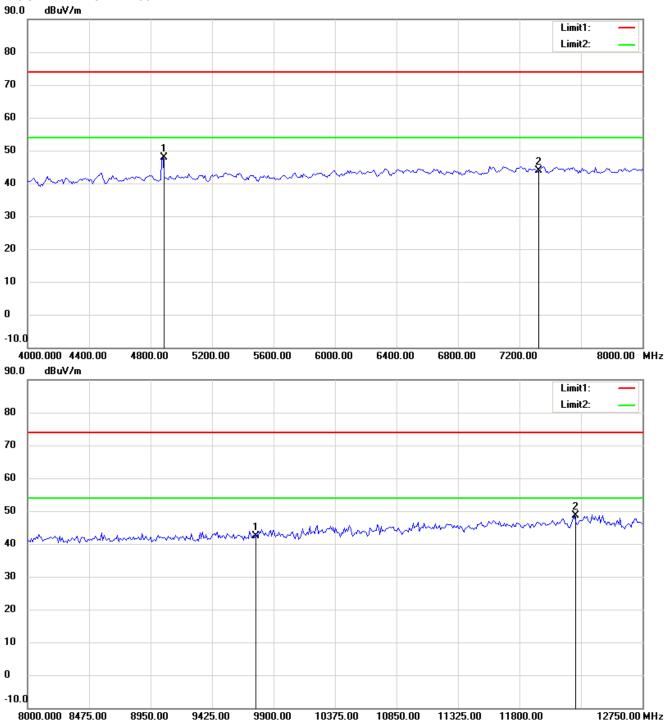


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

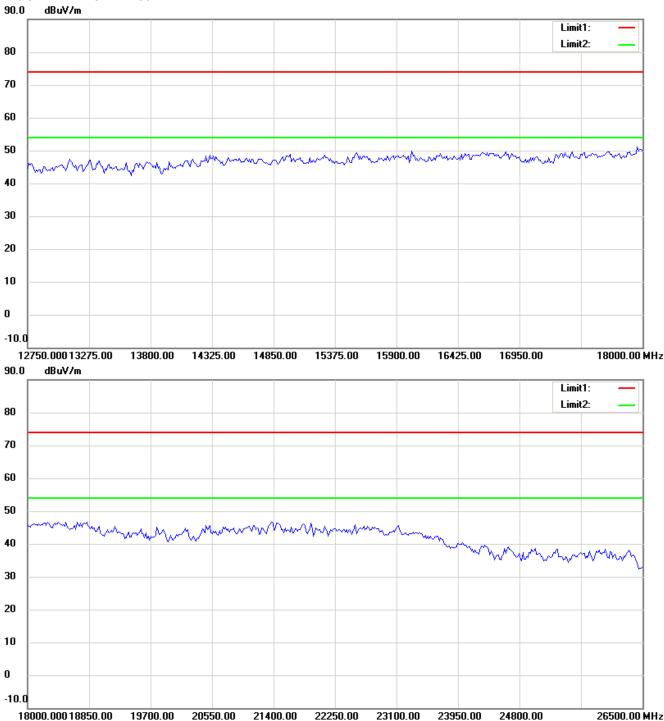


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



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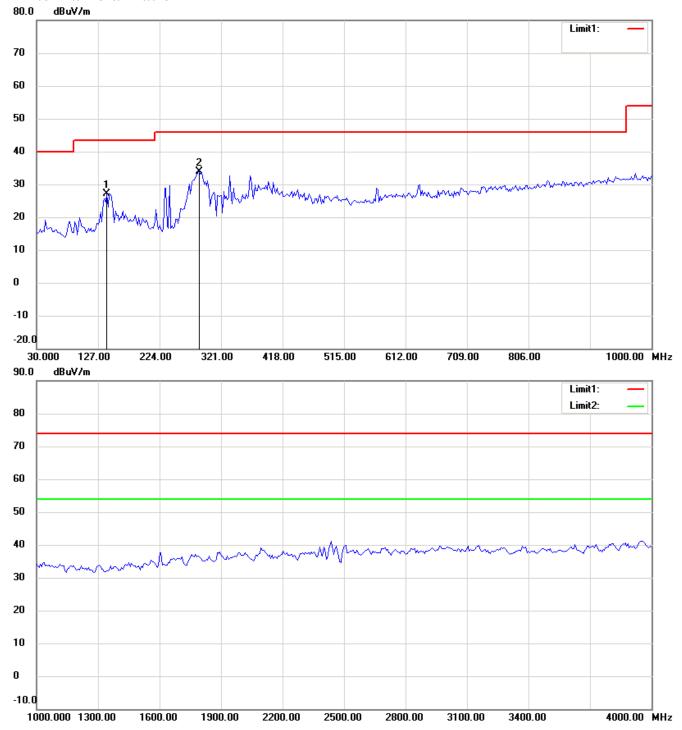


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

TX Bluetooth Low Energy_CH39

Antenna Polarization H

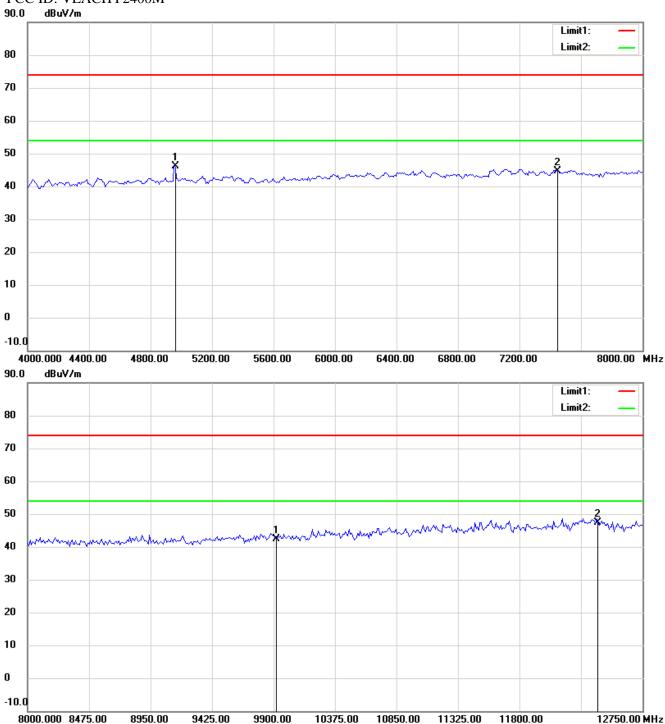


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

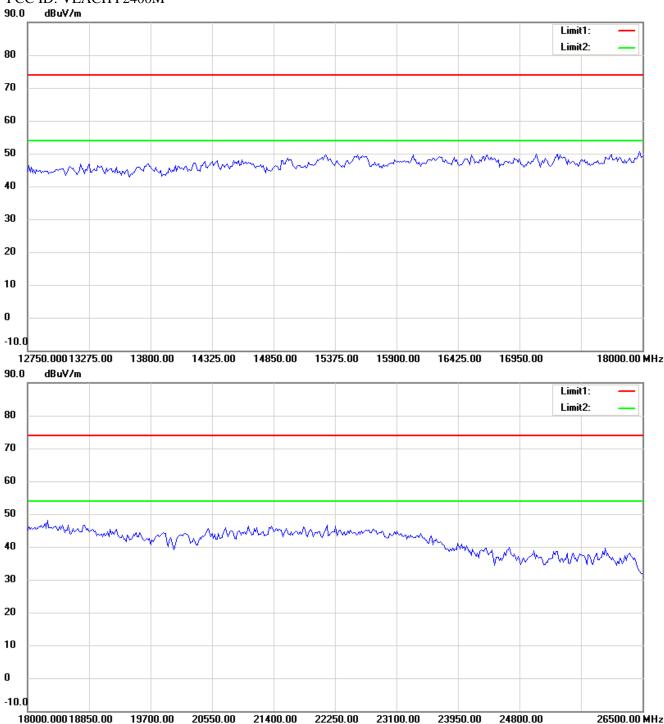


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

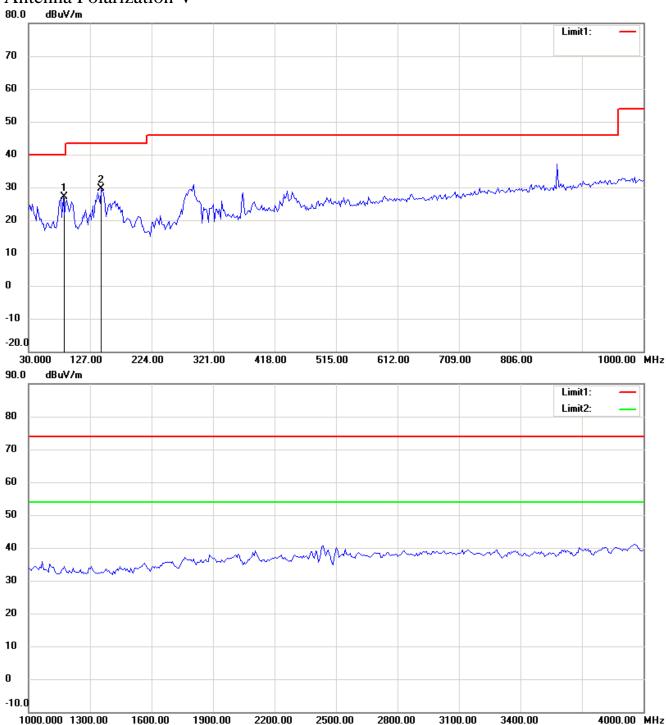


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M Antenna Polarization V

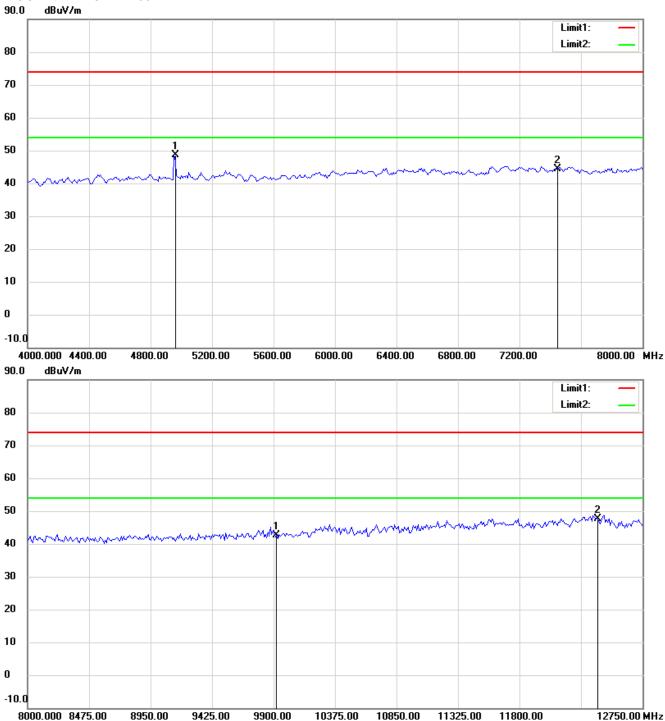


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

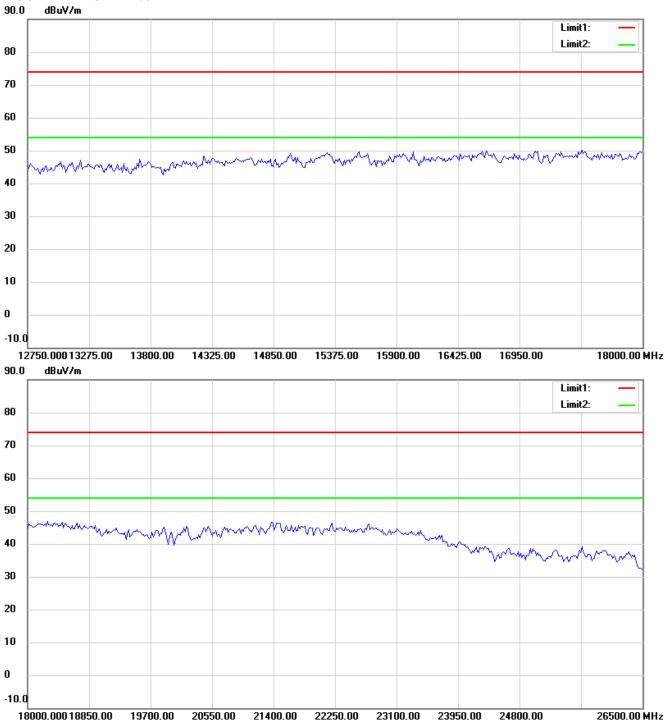


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



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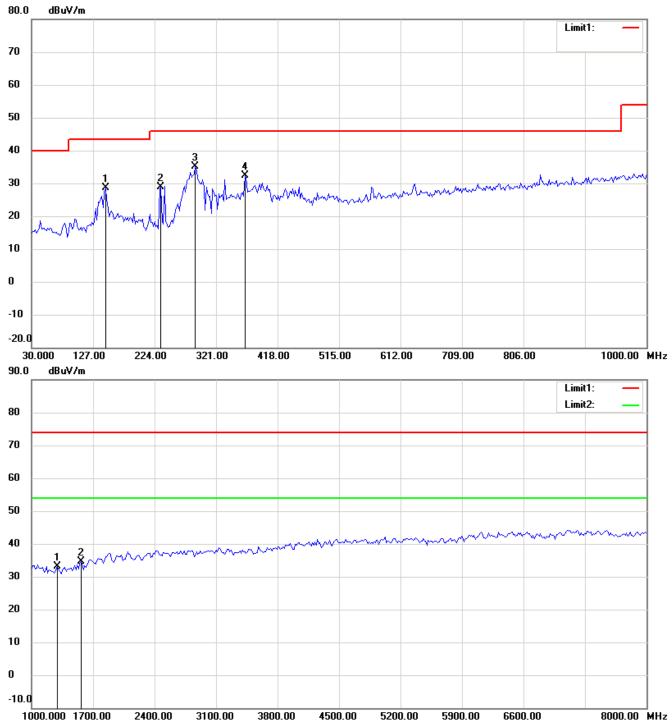
Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Radiated Emission Receiver

RX Bluetooth Low Energy_CH0

Antenna Polarization H

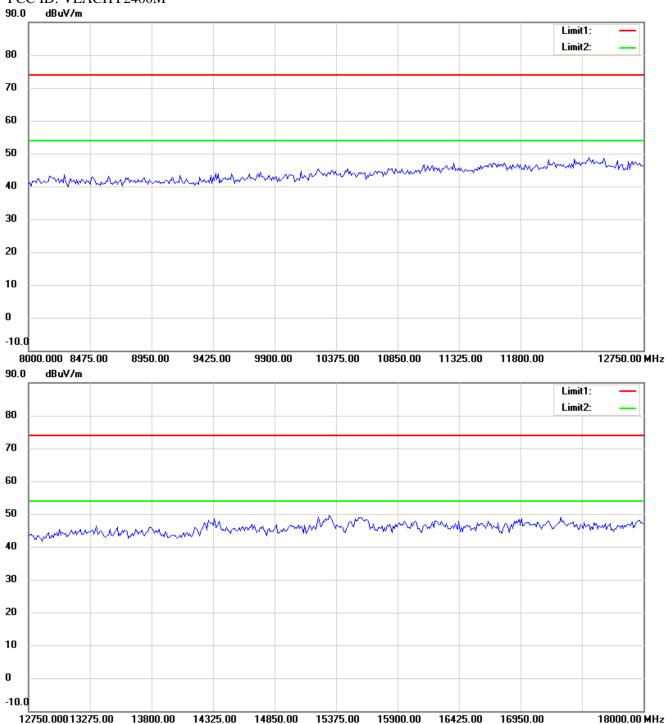


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

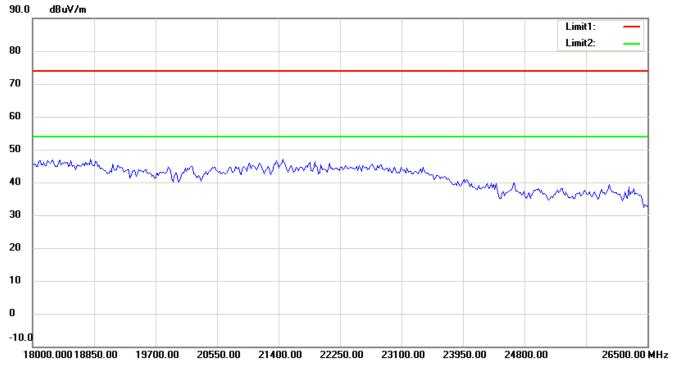


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



Antenna Polarization V

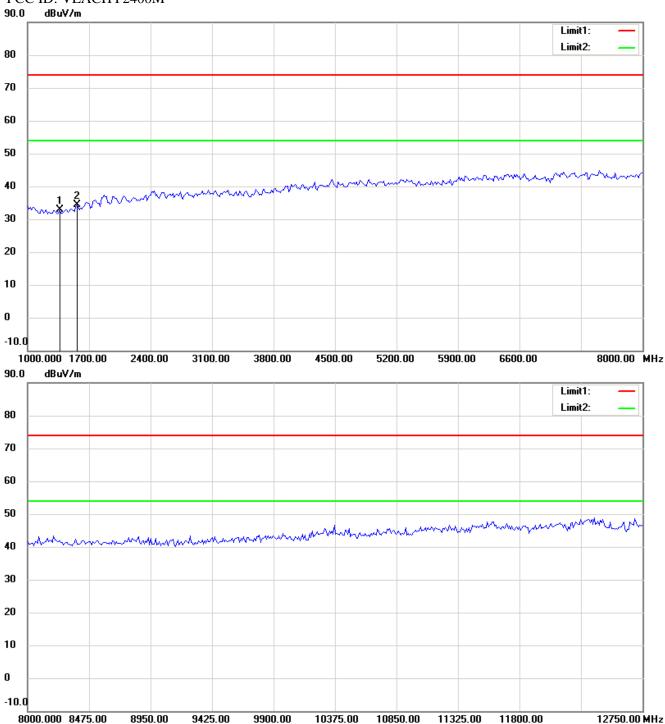


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

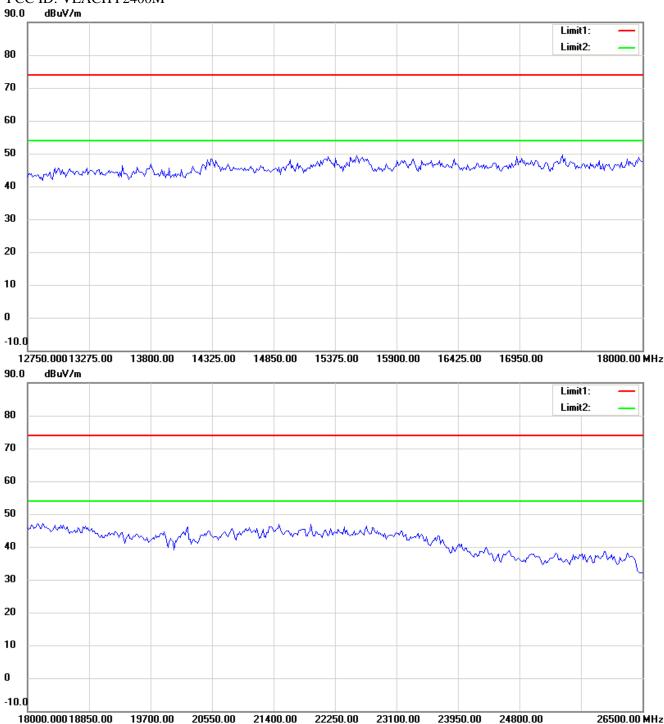


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



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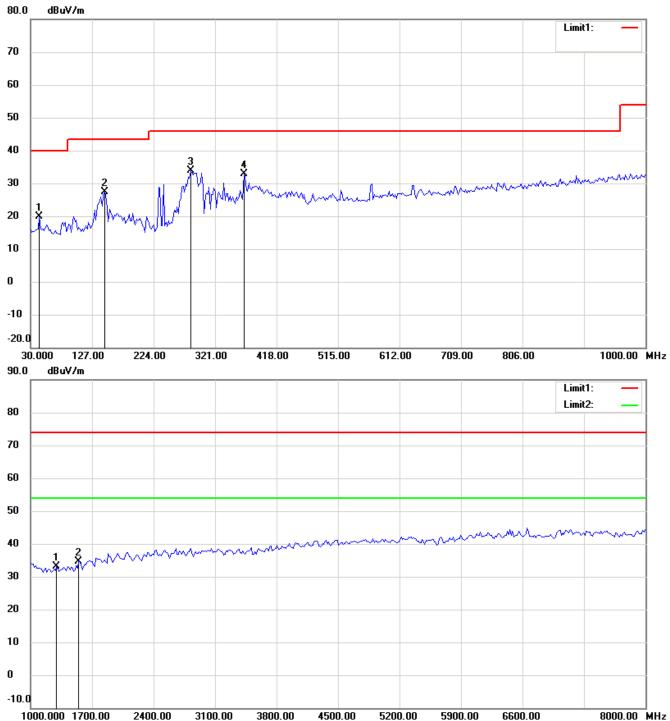


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

RX Bluetooth Low Energy_CH19

Antenna Polarization H

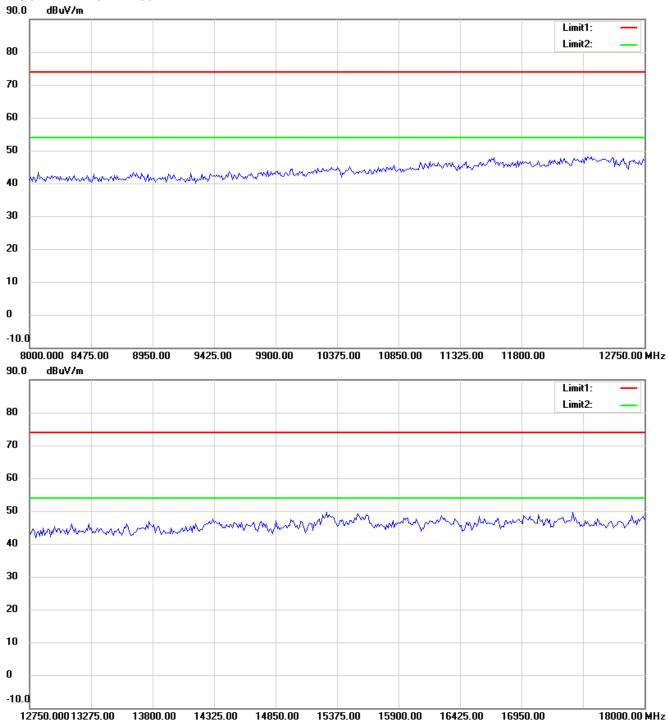


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

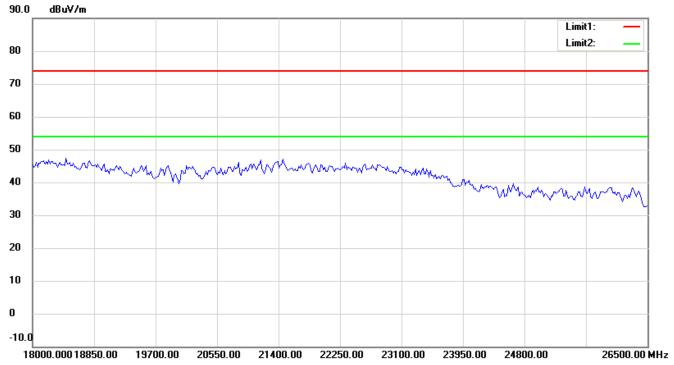


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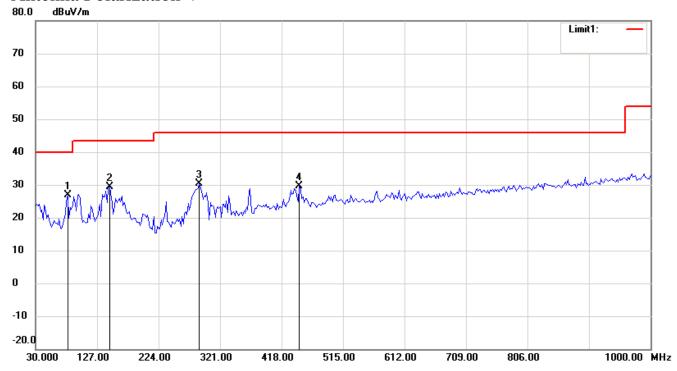


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



Antenna Polarization V

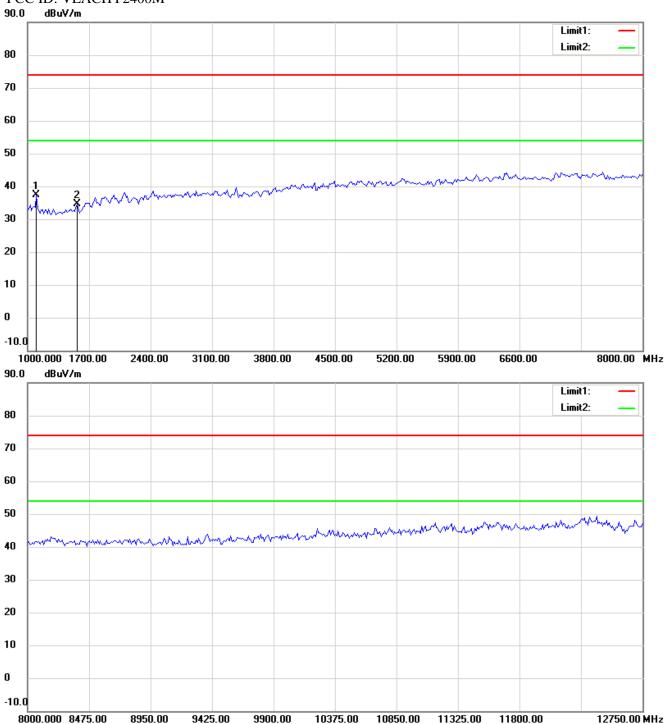


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

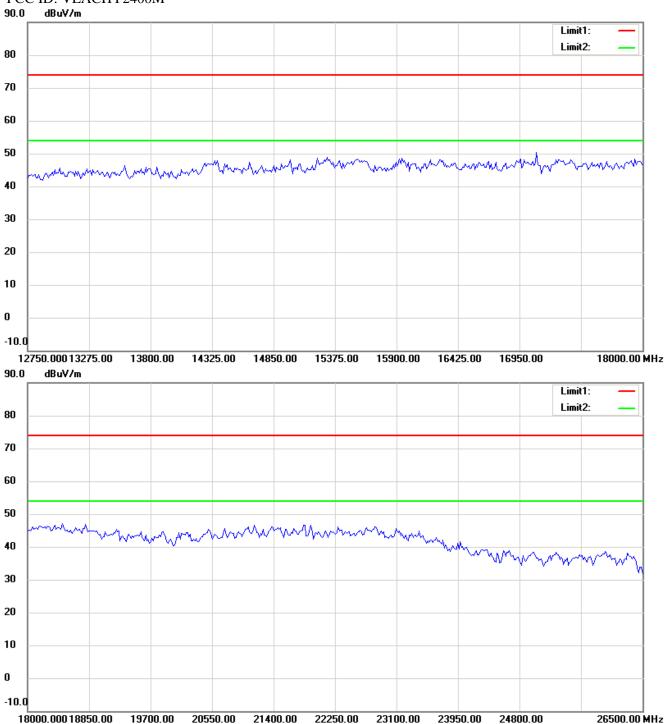


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Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



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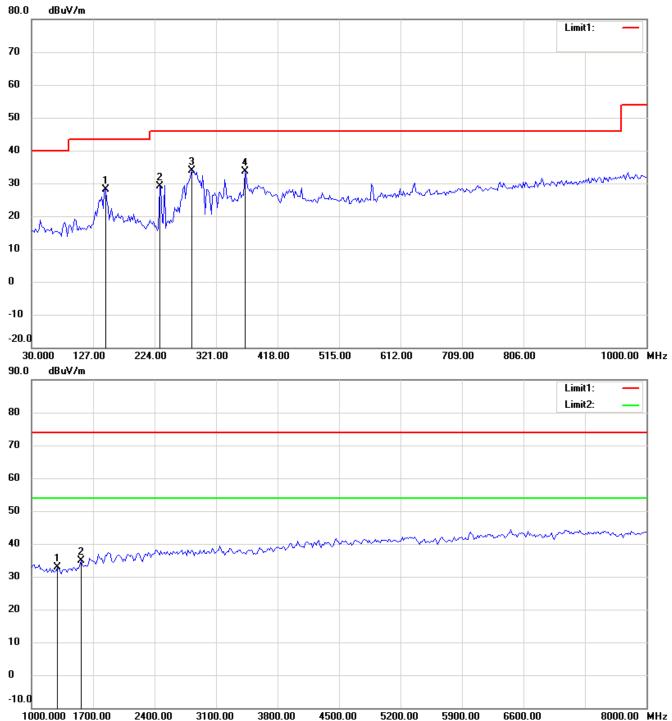


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

RX Bluetooth Low Energy_CH39

Antenna Polarization H

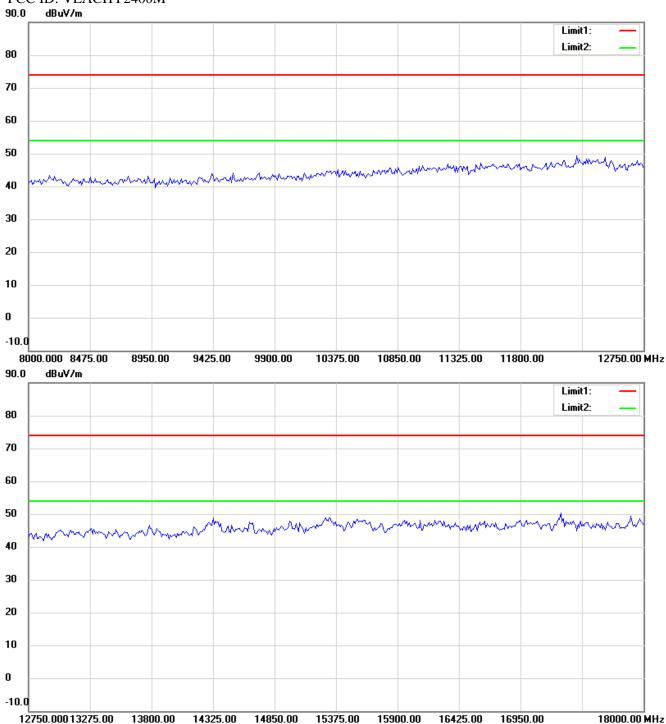


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FCC ID: VEACHY2400M

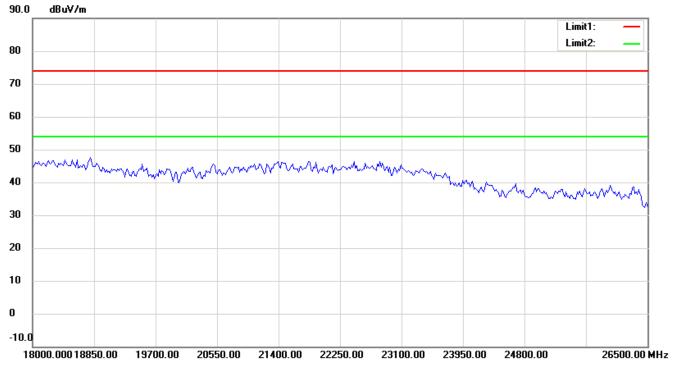


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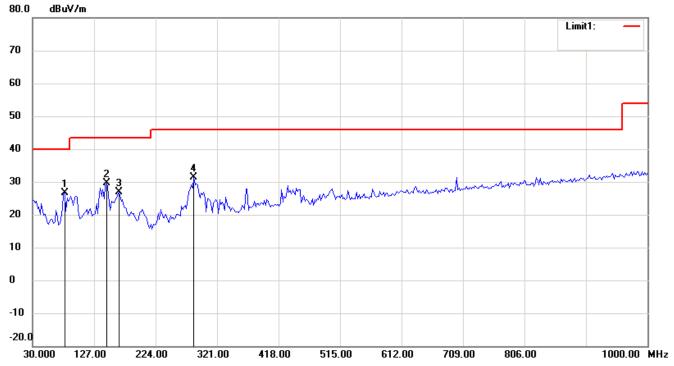


Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M



Antenna Polarization V

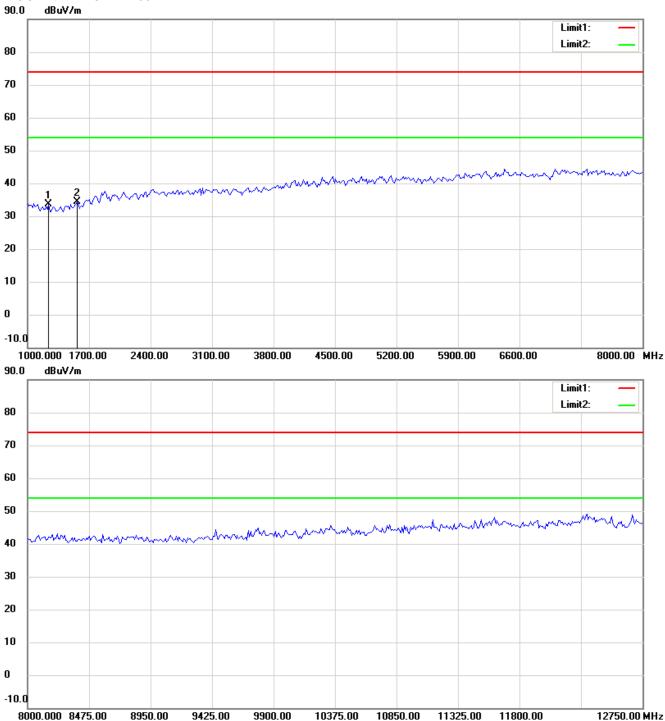


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FCC ID: VEACHY2400M

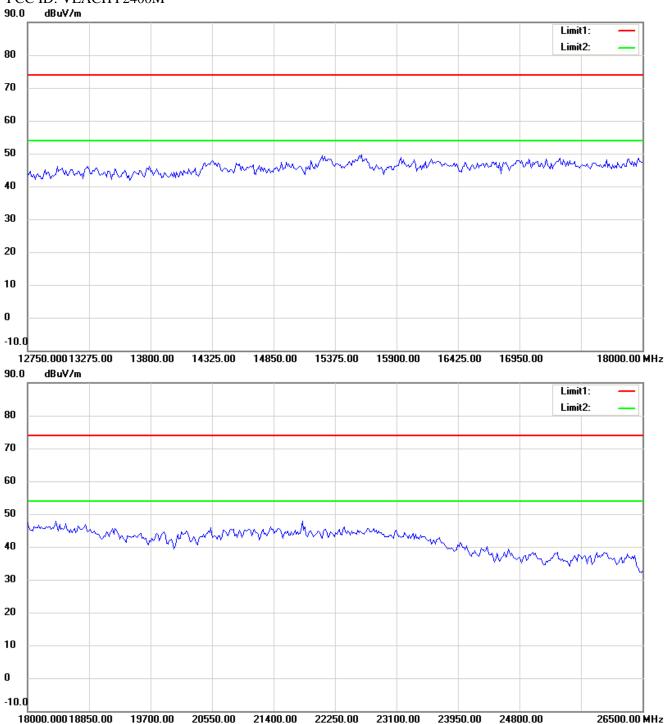


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FCC ID: VEACHY2400M



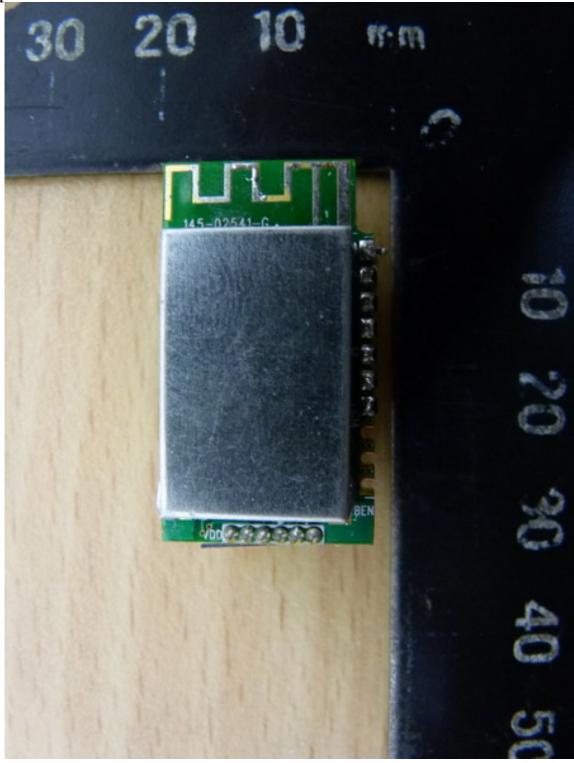
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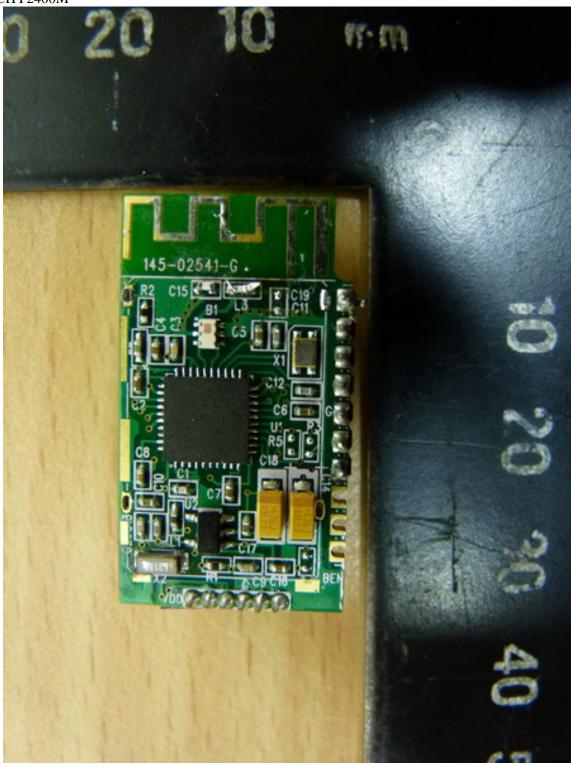
FCC ID: VEACHY2400M

EUT photos



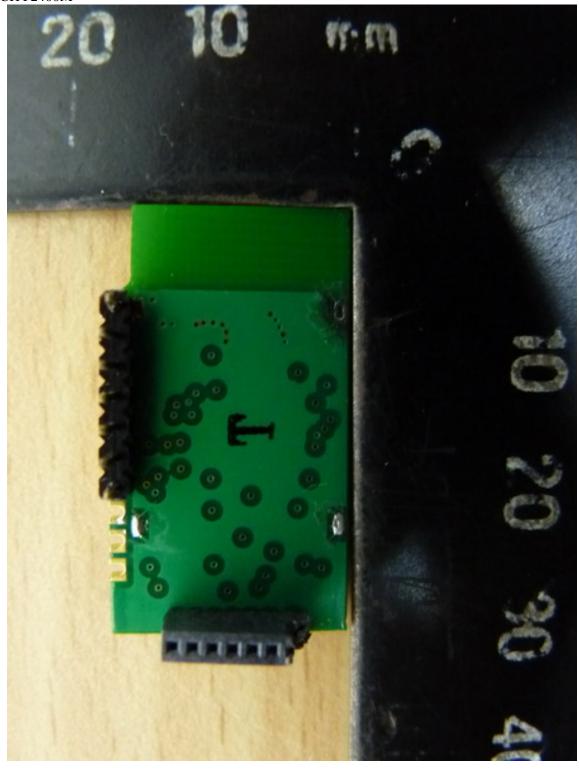


Registration number: W6M21402-13968-C-1 FCC ID: VEACHY2400M





Registration number: W6M21402-13968-C-1 FCC ID: VEACHY2400M





Registration number: W6M21402-13968-C-1

FCC ID: VEACHY2400M

Set Up photo of Radiated Emission



