

Prüfbericht-Nr.: Test report no.:	CN23ZDHC 001	Auftrags-Nr.: Order no.:	168442173	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-09-04	
Auftraggeber: Client:	FCC: Decathlon America LLC 1160 Battery Street, Suite 100, San Francisco, CA 94111, United States IC: DECATHLON SE 4 Boulevard de Mons, VILLENEUVE D'ASCQ, 59650, France			
Prüfgegenstand: Test item:	Domyos Challenge Bike			
Bezeichnung / Typ-Nr.: Identification / Type no.:	329494			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR Title 47, Part 15, Subpart C, Section 15.247 RSS-Gen Issue 5 February 2021 RSS-247 Issue 2 February 2017 ANSI C63.10: 2013			
Wareneingangsdatum: Date of sample receipt:	2022-10-16 2023-09-05	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A003354037-001 A003550290-001~006			
Prüfzeitraum: Testing period:	2023-04-18 2023-09-07 - 2023-09-12			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X  Signed by: Breeze Jiang		genehmigt von: authorized by:	X  Signed by: Lin Lin
Datum: Date:	2023-09-20		Ausstellungsdatum: Issue date:	2023-09-20
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2A8UOCHALLENGEBIKE, IC: 24468-CHALLENGEBIKE, HVIN: Domyos Challenge Bike US Supplier name: Zhejiang Arcana Power Sports Supplier code: 46559 Conception Code: 329494 Model Code: 8862412 Test request no.: L074-03-2208-0002			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth Low Energy

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-10-10
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-10-10
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-10-10
DC power supply	Keysight	E3642A	MY61276100	2023-10-10
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-10-10
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-10-10
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-07-25
Signal Analyzer	R&S	FSV 40	101439	2024-07-25
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2024-07-25
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-07-25
Amplifier	R&S	SCU-18F	180070	2024-07-25
Amplifier	R&S	SCU40A	100475	2024-07-25
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A

Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Conducted Emission				
Equip.	Description	Model	Manufacturer	Due Date
G1811378	3m modified semi-anechoic chamber	SAC3	Frankonia	10.06.2024
9023229	EMI test receiver	ESR3	Rohde&Schwarz	11.08.2023
G1811403	Artificial mains network	ENV216	Rohde&Schwarz	19.10.2023
G1811425	Bilog antenna	CBL 6112D	Teseq	09.03.2024
G1811417	Log periodic antenna	HL050	Rohde&Schwarz	09.03.2024
G1822695	Spectrum analyser	FSP30	Rohde&Schwarz	16.08.2024
G1825371	Preamplifier	EMC051845SE	Taiwan EMCI	14.05.2023
G1825372	Preamplifier	EMC184045SE	Taiwan EMCI	14.05.2023
G1831065	Broadband horn antenna	BBHA 9170	Schwarzbeck	10.07.2023
G1822702	Spectrum analyser	FSV40	Rohde&Schwarz	04.11.2023
MY54500180	Signal analyser	N9020A	Keysight	08.08.2024
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	14.10.2023

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (150kHz to 30MHz)	± 3.39 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Domyos Challenge Bike which supports Bluetooth Low Energy and ANT+(2457MHz).

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Domyos Challenge Bike
Type Designation:	329494
FCC ID:	2A8UOCHALLENGEBIKE
IC:	24468-CHALLENGEBIKE
HVIN:	Domyos Challenge Bike US
Operating Voltage:	Charging by USB(5Vdc, 1A) Charging by adapter(AC 120V, 60Hz)
Test Voltage:	DC 5V from USB or AC 120V/60Hz from adapter
Technical Specification of Bluetooth LE	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2 MHz
Data rate:	1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-1.46 dBi (Provided by the Client)
Technical Specification of ANT+	
Frequency Range:	2457 MHz
Type of Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-1.46 dBi (Provided by the Client)

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal Operating Mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model 329494 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Laptop	Lenovo	TP00001A	N/A
Adapter	N/A	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

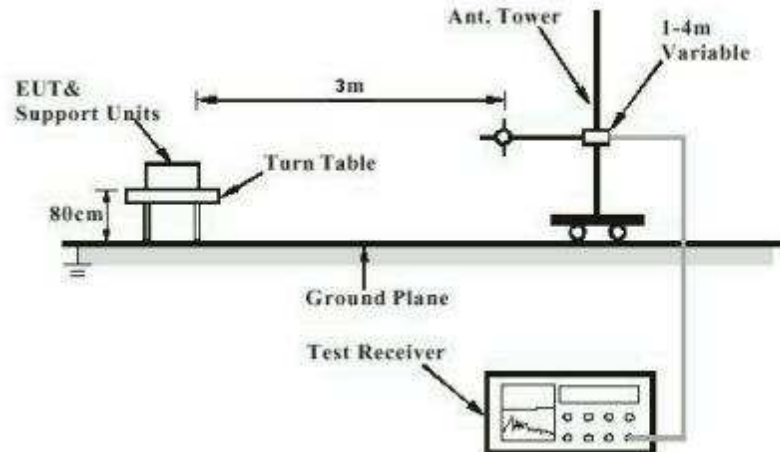


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

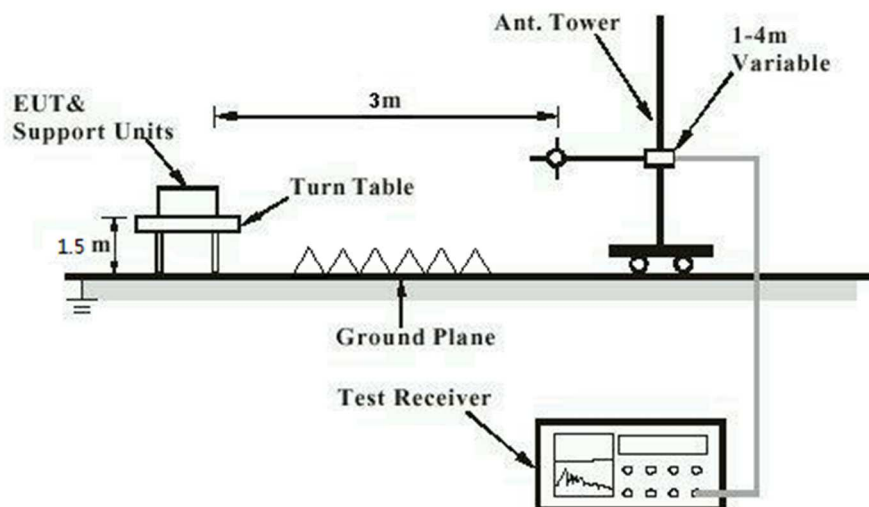


Diagram of Measurement Configuration for Conducted Transmitter Measurement

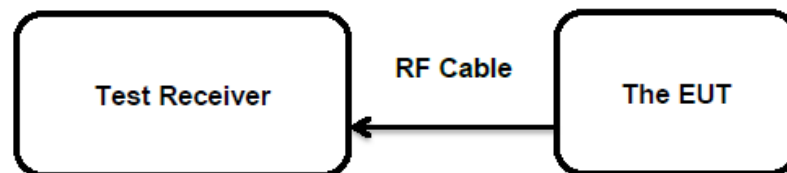
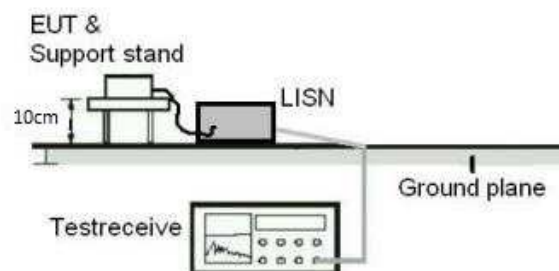


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a PCB antenna, the gain of antenna is -1.46 dBi, which that permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
RSS-247 Section 5.4(d)

Basic standard : ANSI C63.10: 2013

Limits : 1.0 Watts

Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-09-12

Input voltage : DC 5V from USB

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25.8 °C

Relative humidity : 35 %

Atmospheric pressure : 101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	1.01	0.0013	< 1.0
	2440	0.97	0.0013	
	2480	1.24	0.0013	
Max. Measured Value		1.24	0.0013	
Max. e.i.r.p.=1.24dBm-1.46dBi=-0.22dBm, which is less than 36dBm=4W.				

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): -1.46 dBi
e.i.r.p.= $P_{(\text{Peak power})} + G$, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(e) RSS-247 Section 5.2(b)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-09-12
Input voltage	: DC 5V from USB
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.8 °C
Relative humidity	: 35 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(a)(2) RSS-247 Section 5.2(a)
Basic standard	:	ANSI C63.10: 2013
Limits	:	> 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2023-09-12
Input voltage	:	DC 5V from USB
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25.8 °C
Relative humidity	:	35 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-09-12
Input voltage	: DC 5V from USB
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.8 °C
Relative humidity	: 35 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Section 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-09-12
Input voltage	: DC 5V from USB
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.8 °C
Relative humidity	: 35 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Section 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2023-09-07
Input voltage	: DC 5V from USB
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

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5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-04-18
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 22.5 °C
Relative humidity	: 50.8 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

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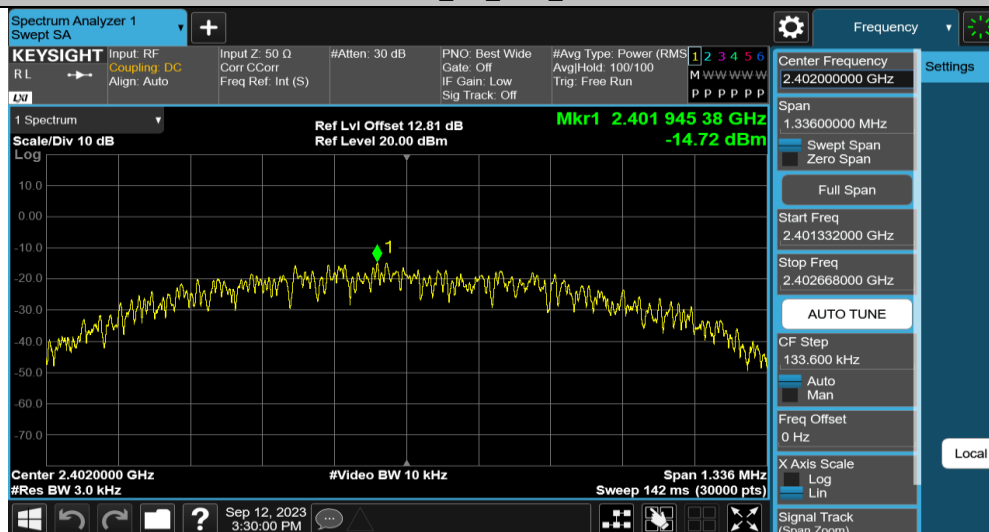
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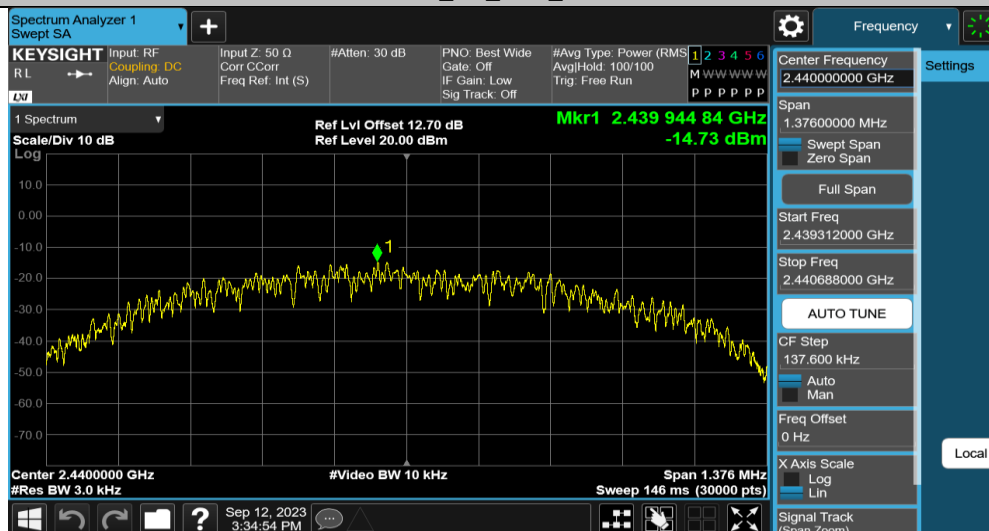
Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.72	≤8.00	PASS
		2440	-14.73	≤8.00	PASS
		2480	-14.61	≤8.00	PASS

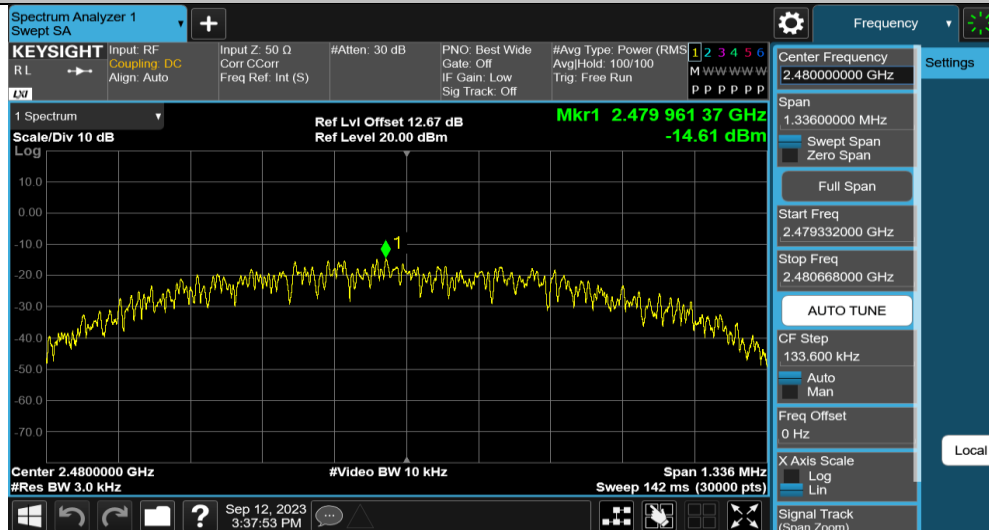
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



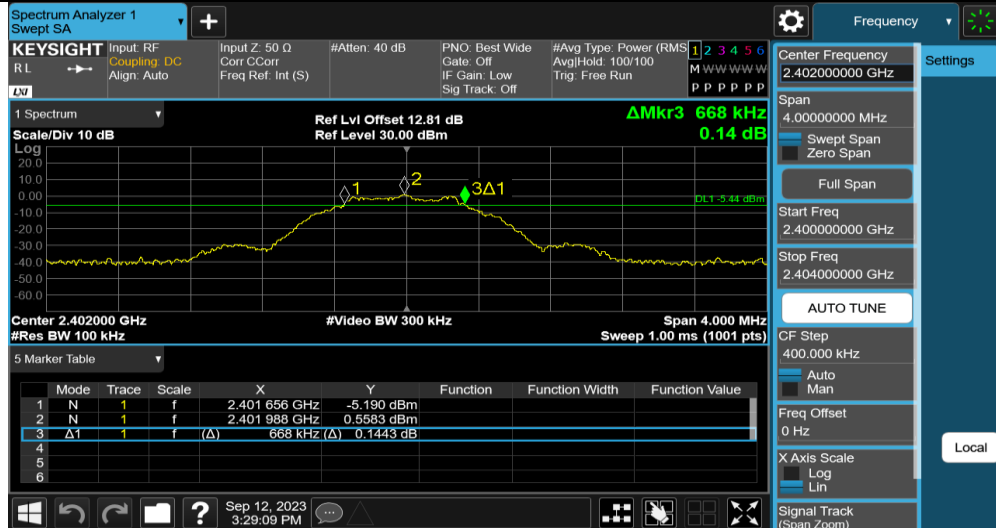
BLE_1M_Ant1_2480



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.656	2402.324	0.5	PASS
		2440	0.688	2439.636	2440.324	0.5	PASS
		2480	0.668	2479.652	2480.320	0.5	PASS

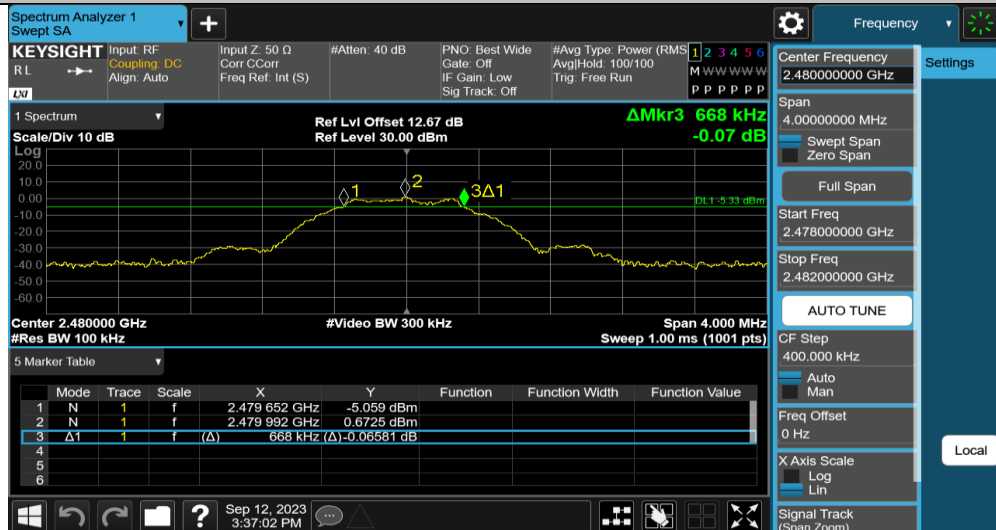
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



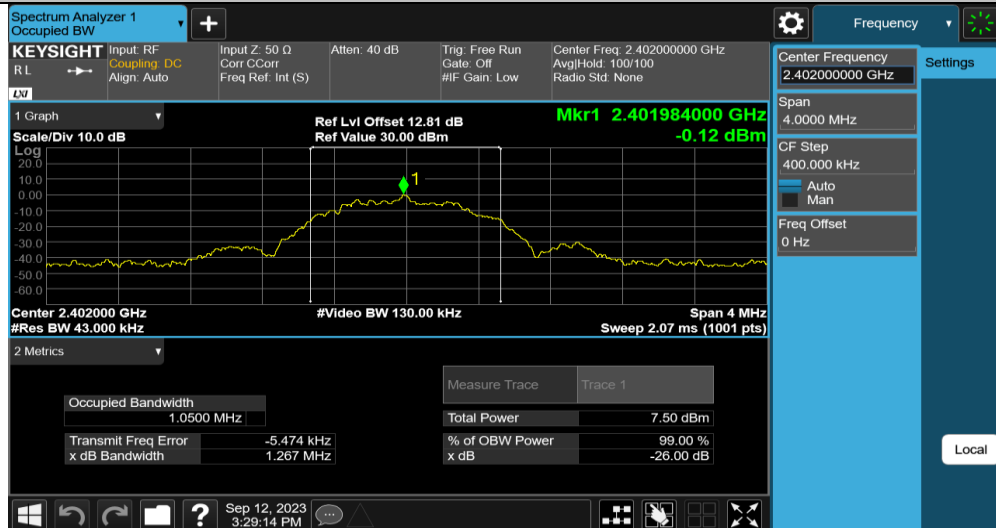
BLE_1M_Ant1_2480



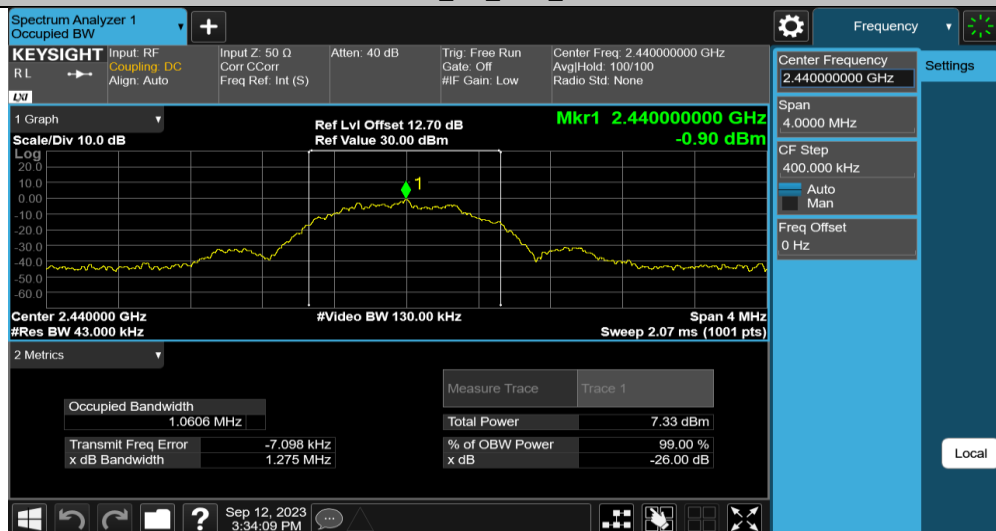
Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0500	2401.4695	2402.5195	---	PASS
		2440	1.0606	2439.4626	2440.5232	---	PASS
		2480	1.0524	2479.4657	2480.5181	---	PASS

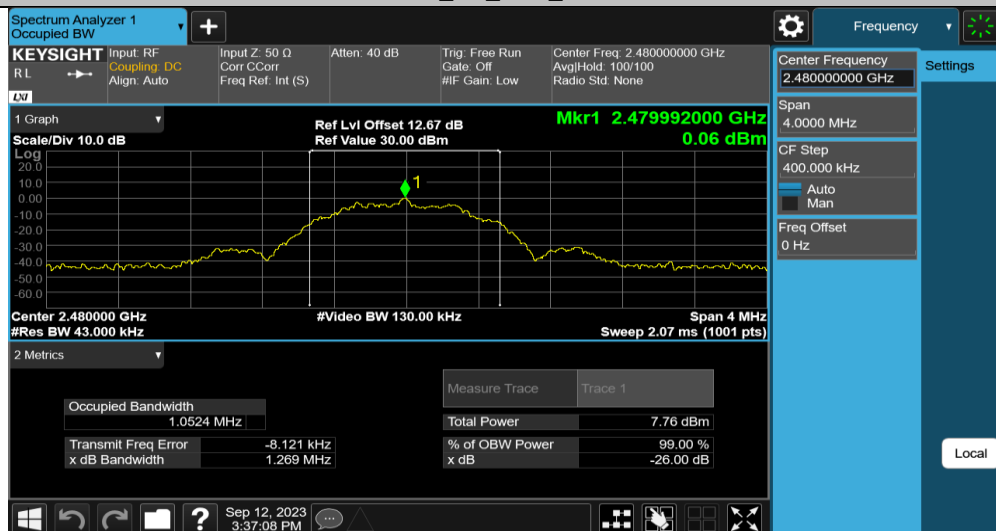
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

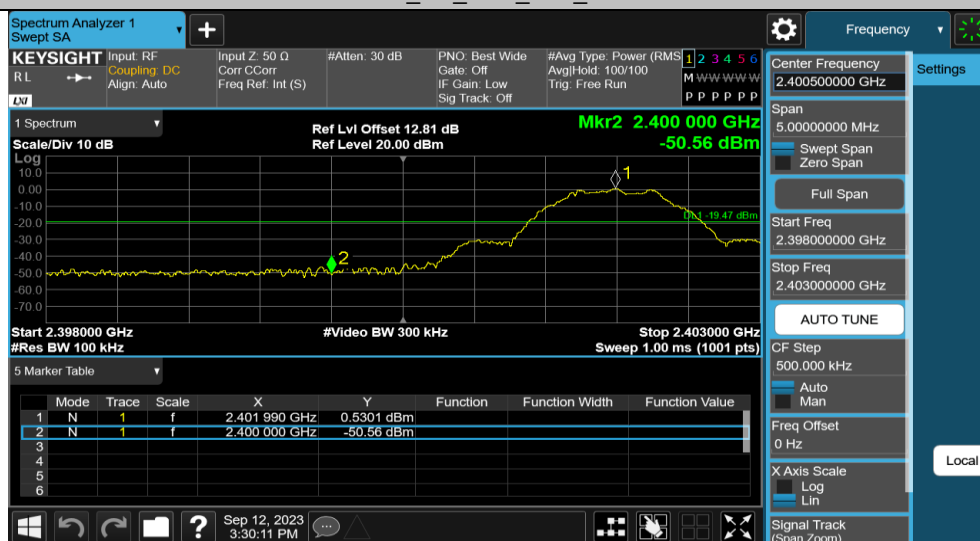


Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.5301	-50.56	≤-19.47	PASS
		High	2480	0.7376	-51.24	≤-19.26	PASS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



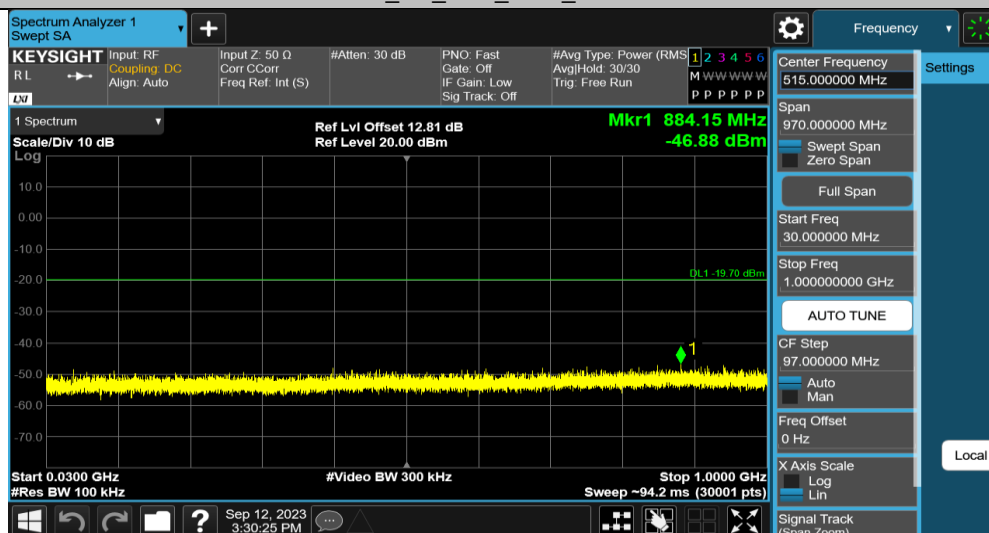
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-46.88	≤-19.7	PASS
			1000~26500	0.30	-32.46	≤-19.7	PASS
		2440	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-47.05	≤-19.51	PASS
			1000~26500	0.49	-32.76	≤-19.51	PASS
		2480	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-47.08	≤-19.29	PASS
			1000~26500	0.71	-32.47	≤-19.29	PASS

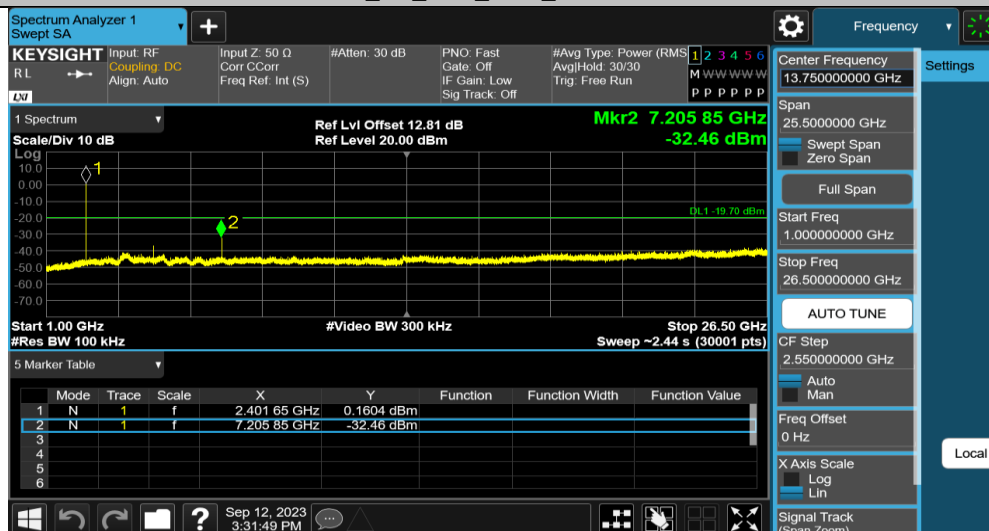
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



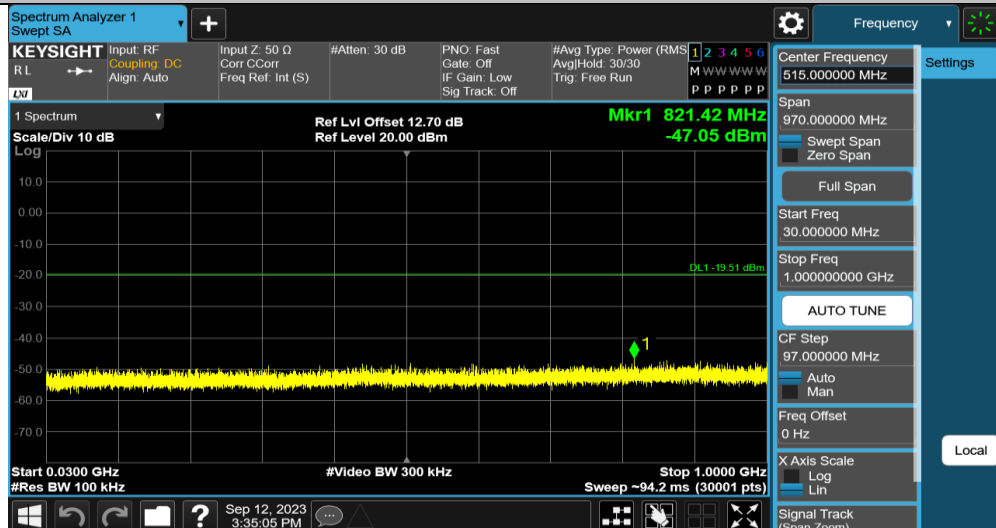
BLE_1M_Ant1_2402_1000~26500



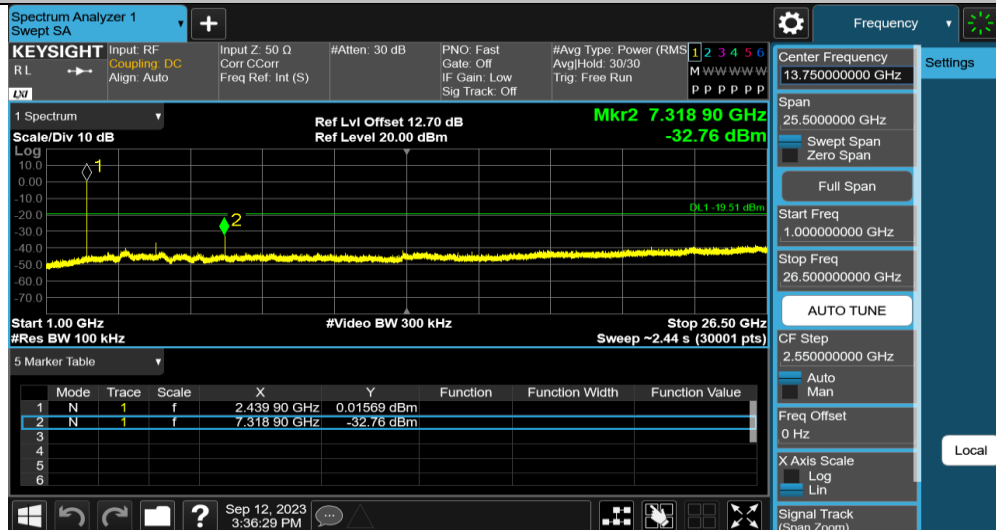
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



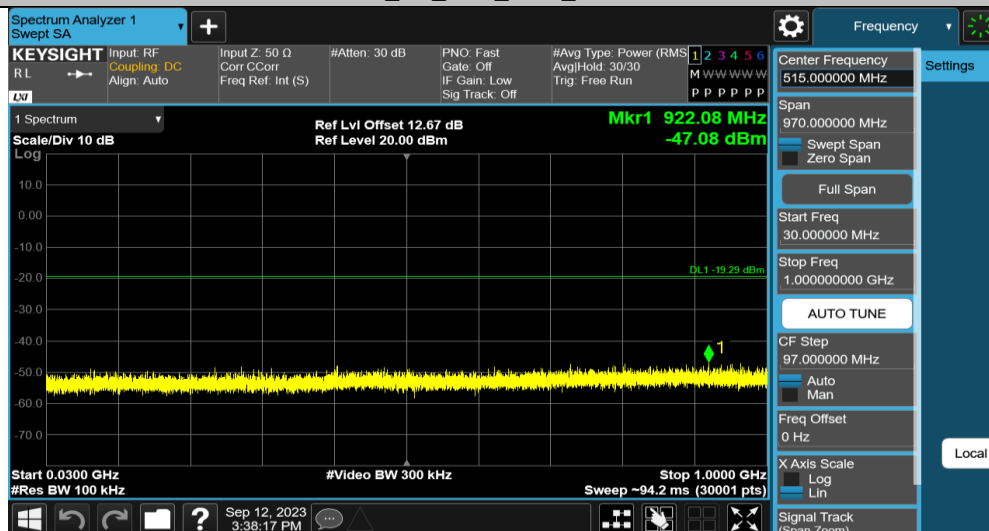
BLE_1M_Ant1_2440_1000~26500



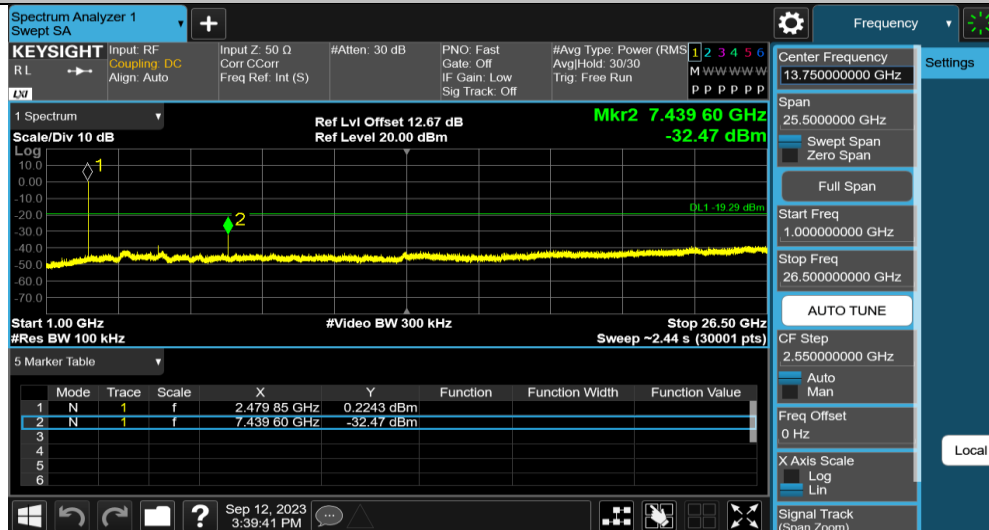
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix A.5: Test Results of Radiated Spurious Emissions

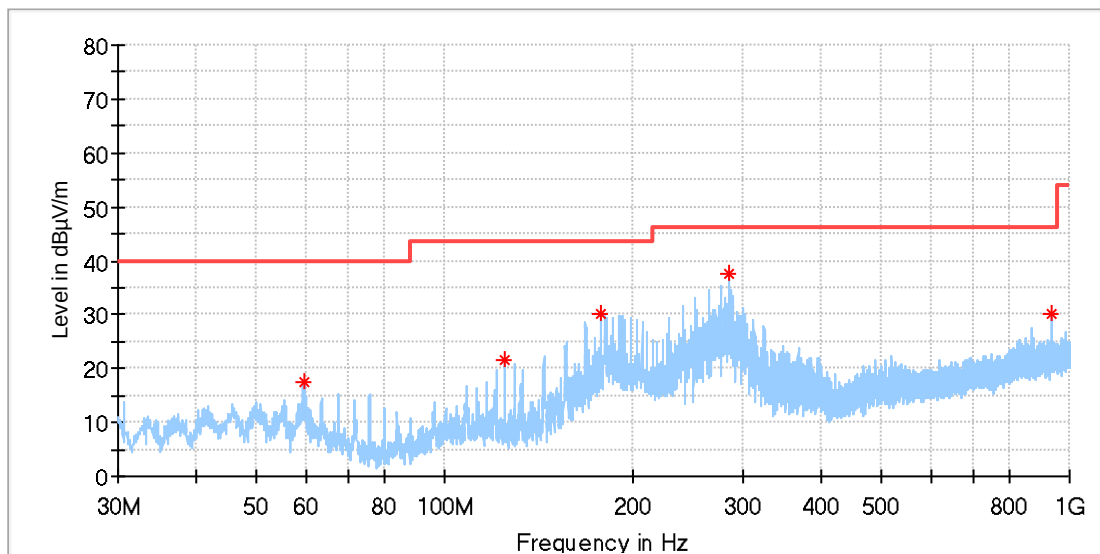
Note:

- 1) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

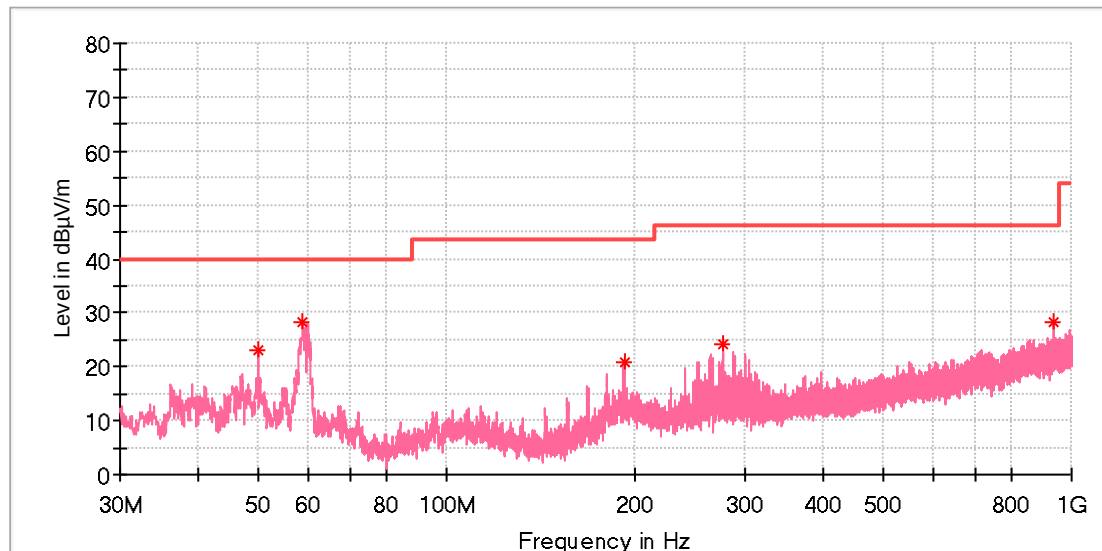
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.696923	17.32	40.00	22.68	100.0	H	103.0	-19.3
124.910769	21.61	43.50	21.89	100.0	H	29.0	-21.6
178.186154	29.97	43.50	13.53	100.0	H	29.0	-21.0
285.184615	37.49	46.00	8.51	100.0	H	20.0	-17.0
937.546923	30.28	46.00	15.72	100.0	H	20.0	-5.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	23.06	40.00	16.94	100.0	V	290.0	-18.6
58.876154	28.22	40.00	11.78	100.0	V	272.0	-19.2
192.064615	20.90	43.50	22.60	100.0	V	81.0	-19.7
276.118846	24.27	46.00	21.73	100.0	V	98.0	-17.1
937.546923	28.37	46.00	17.63	100.0	V	171.0	-5.0

Final Result

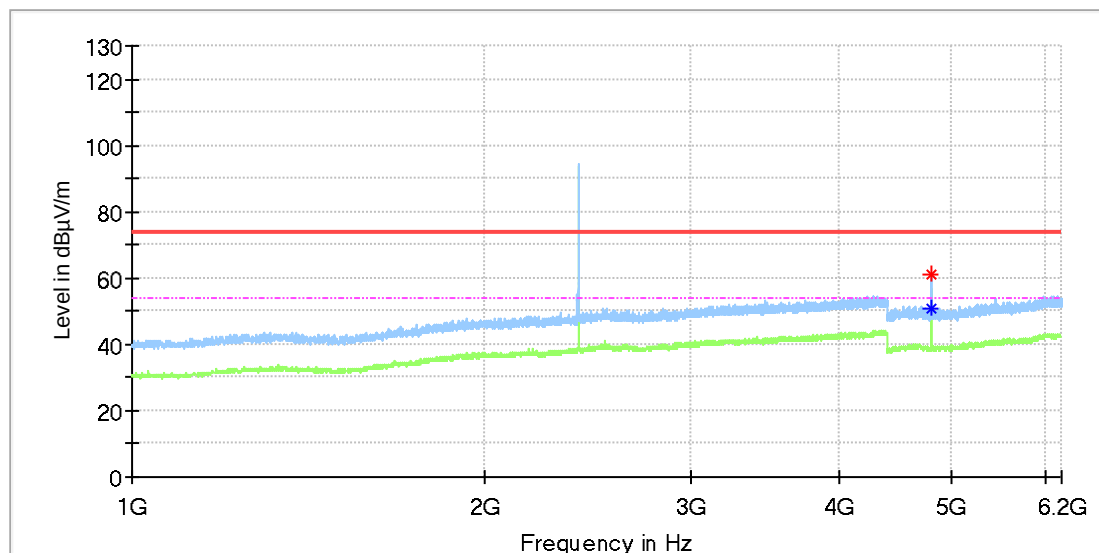
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

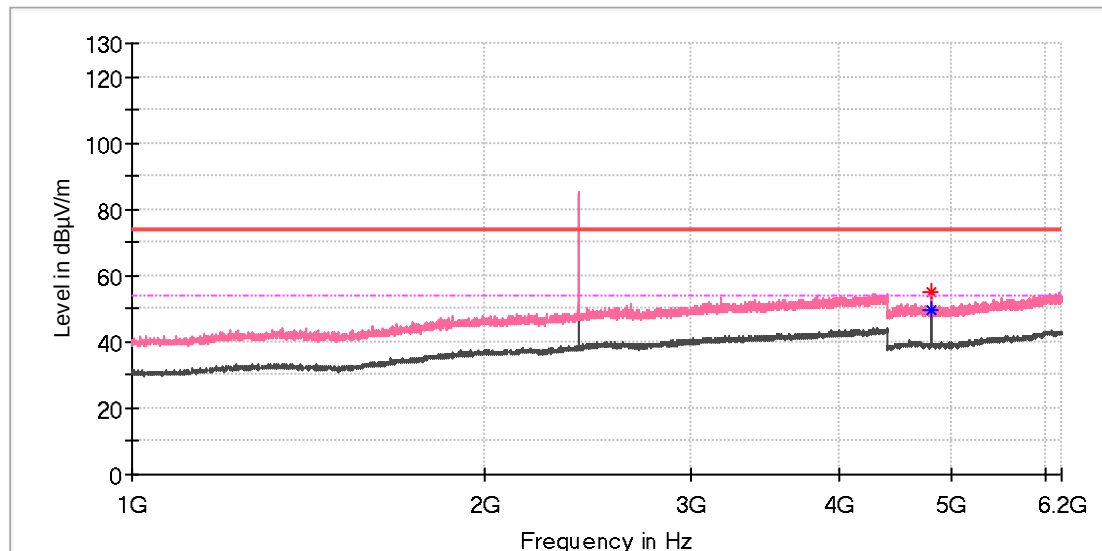
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	60.88	---	74.00	13.12	150.0	H	296.0	11.8
4805.000000	---	50.64	54.00	3.36	150.0	H	268.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

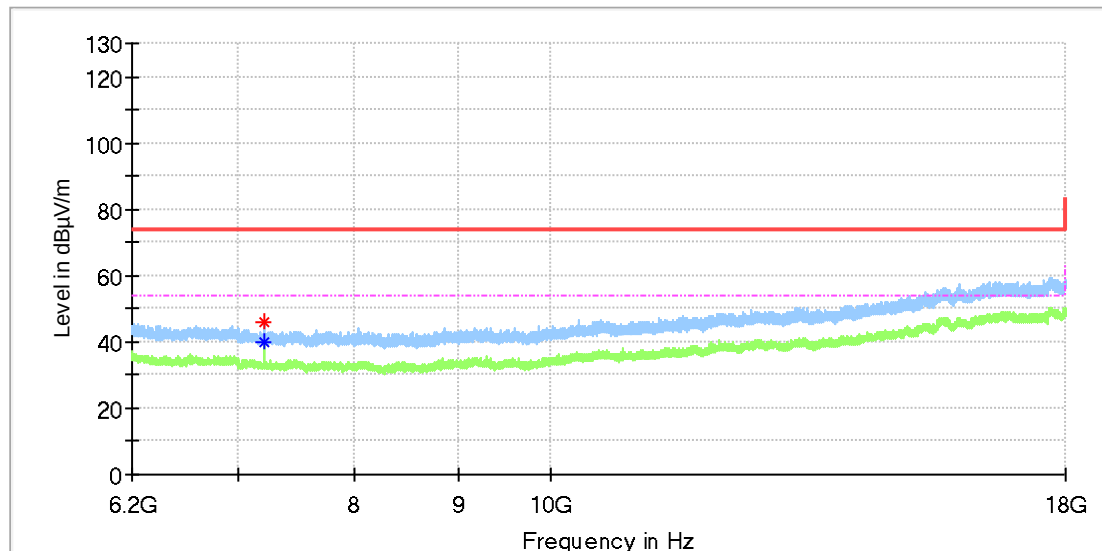
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	49.49	54.00	4.51	150.0	V	237.0	11.8
4804.000000	55.19	---	74.00	18.81	150.0	V	237.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

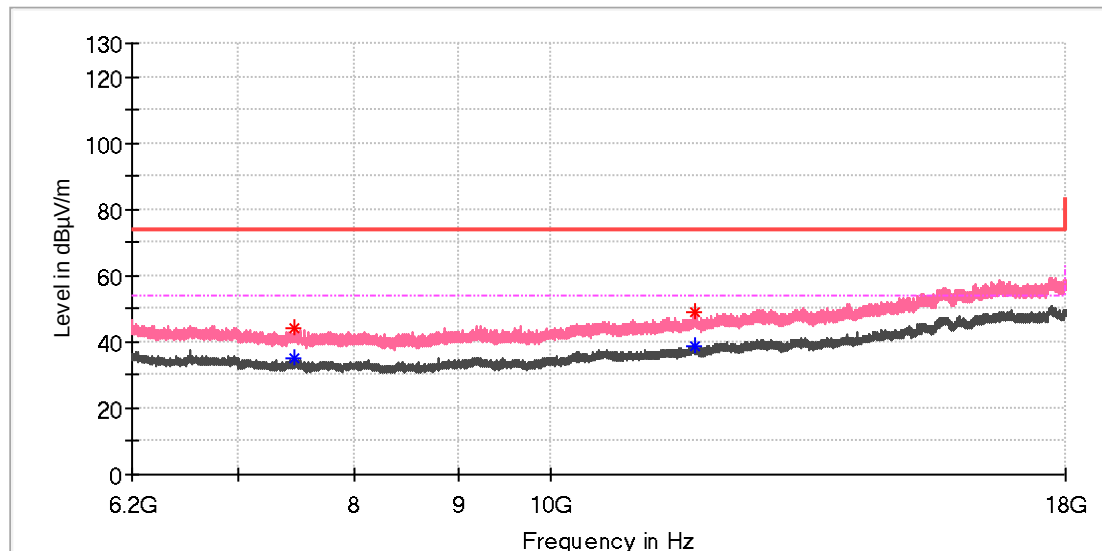
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	---	40.01	54.00	13.99	150.0	H	0.0	8.8
7206.441667	46.06	---	74.00	27.94	150.0	H	0.0	8.8

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

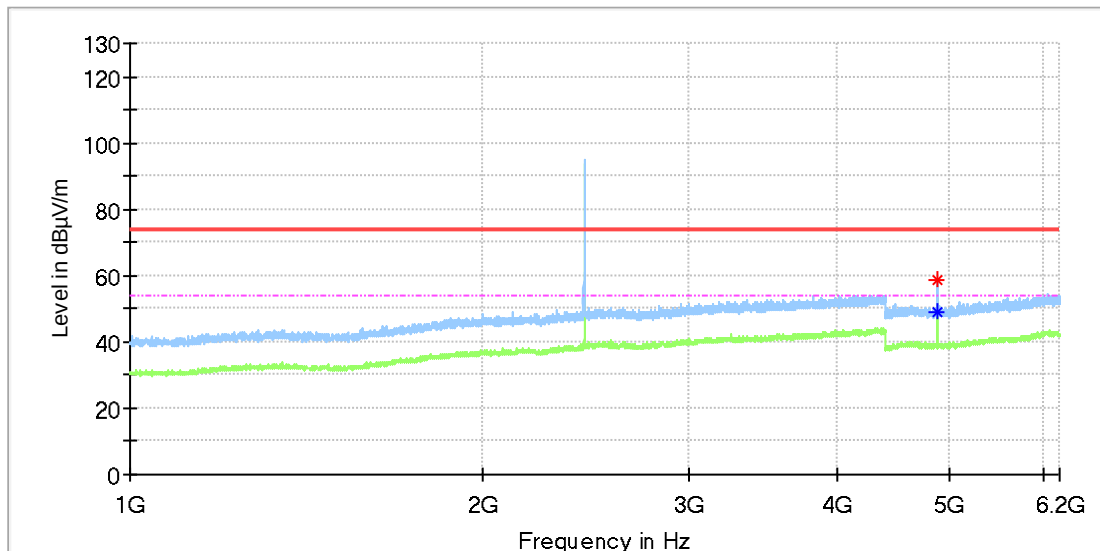
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7454.241667	43.86	---	74.00	30.14	150.0	V	209.0	8.5
7454.733333	---	35.02	54.00	18.98	150.0	V	62.0	8.5
11785.825000	---	38.88	54.00	15.12	150.0	V	285.0	13.4
11798.116667	48.75	---	74.00	25.25	150.0	V	49.0	13.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

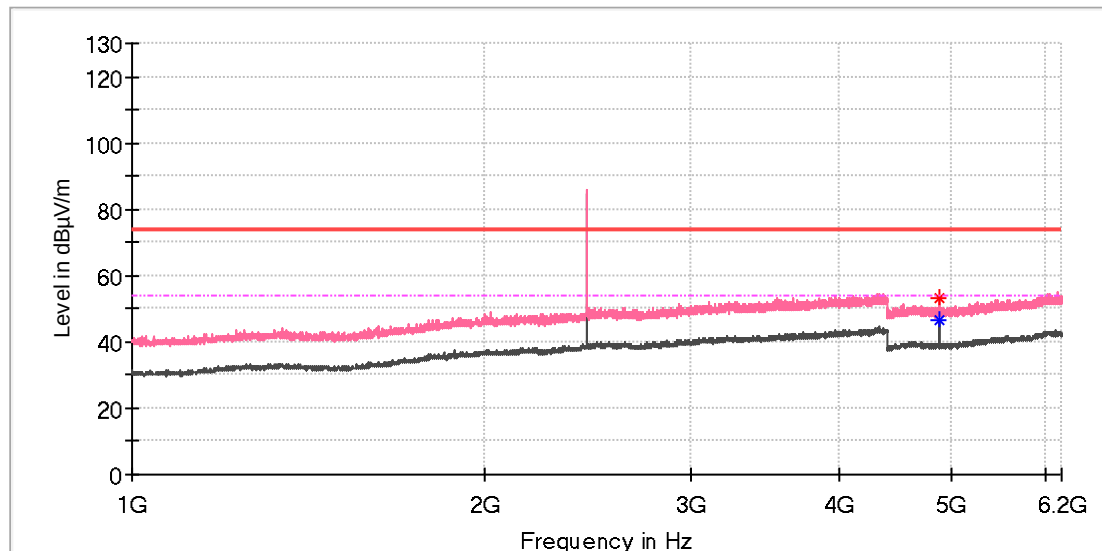
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	---	49.18	54.00	4.82	150.0	H	249.0	11.8
4880.000000	58.41	---	74.00	15.59	150.0	H	256.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

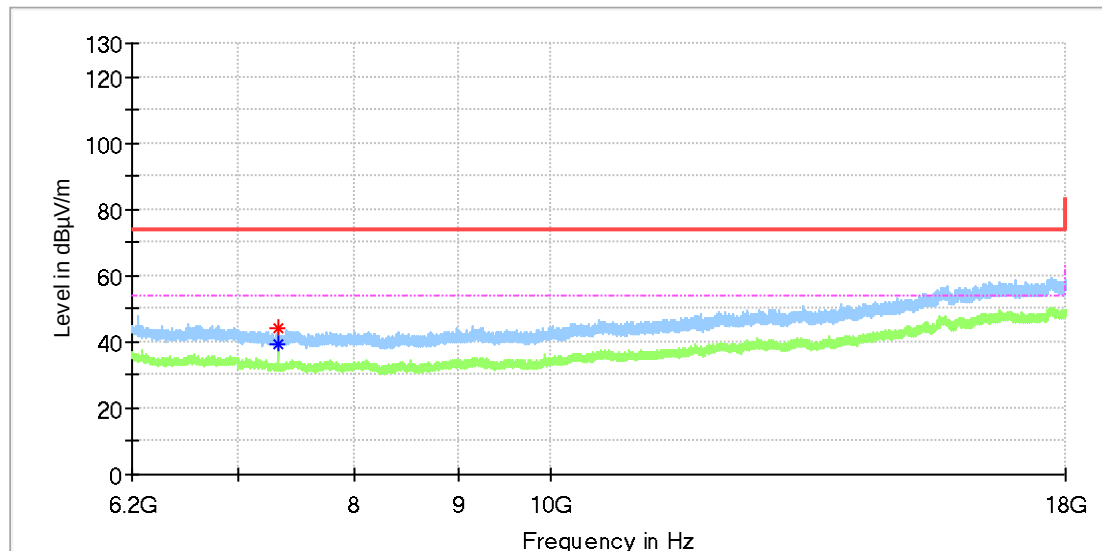
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	53.21	---	74.00	20.79	150.0	V	236.0	11.8
4879.500000	---	46.38	54.00	7.62	150.0	V	242.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

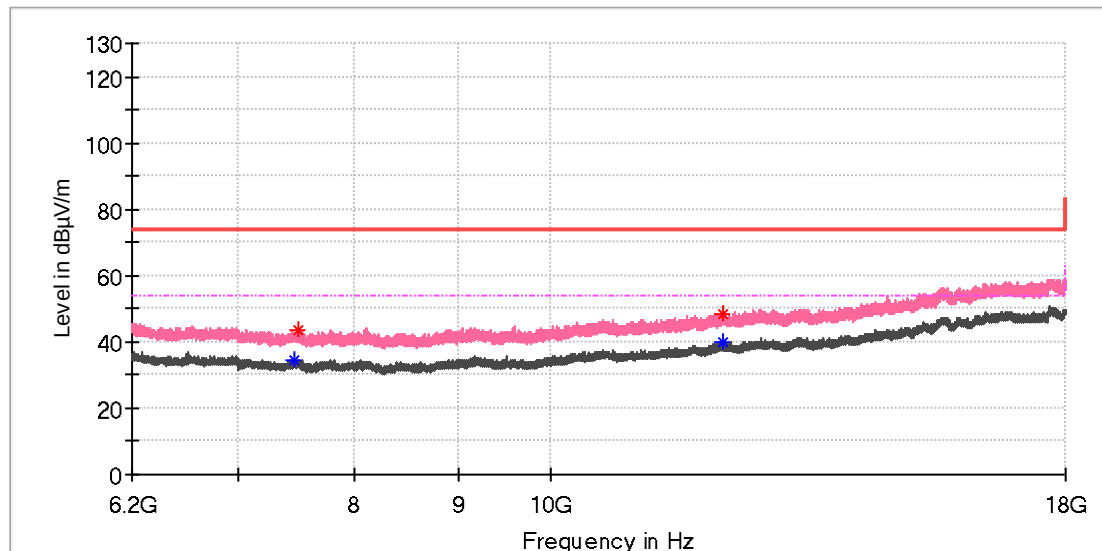
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	44.39	---	74.00	29.61	150.0	H	1.0	8.2
7319.525000	---	39.07	54.00	14.93	150.0	H	1.0	8.2

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

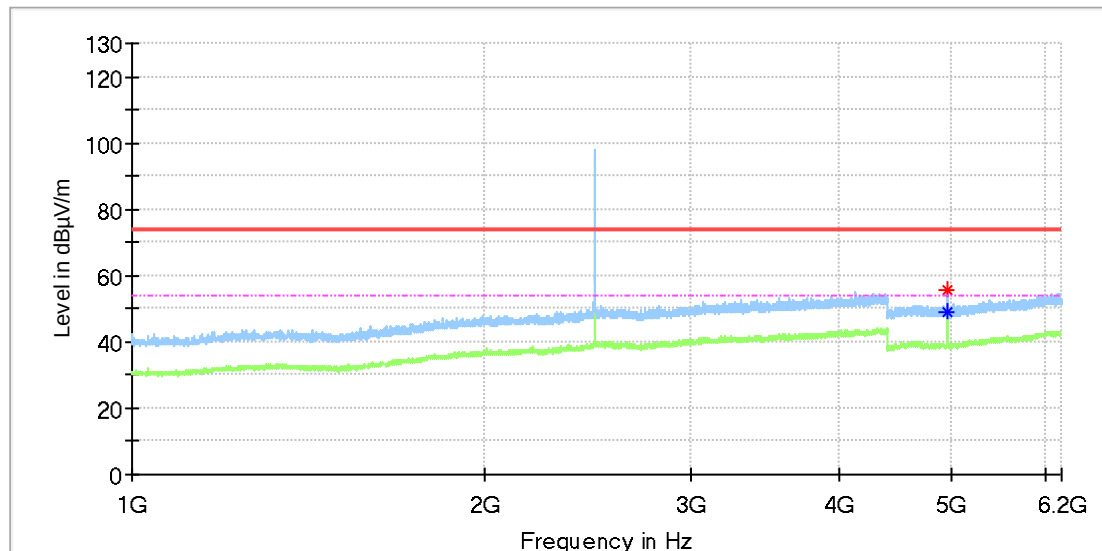
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7468.008333	---	34.38	54.00	19.62	150.0	V	328.0	8.6
7494.558333	43.72	---	74.00	30.28	150.0	V	255.0	8.7
12163.425000	---	39.74	54.00	14.26	150.0	V	230.0	14.5
12169.325000	48.17	---	74.00	25.83	150.0	V	316.0	14.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_High channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

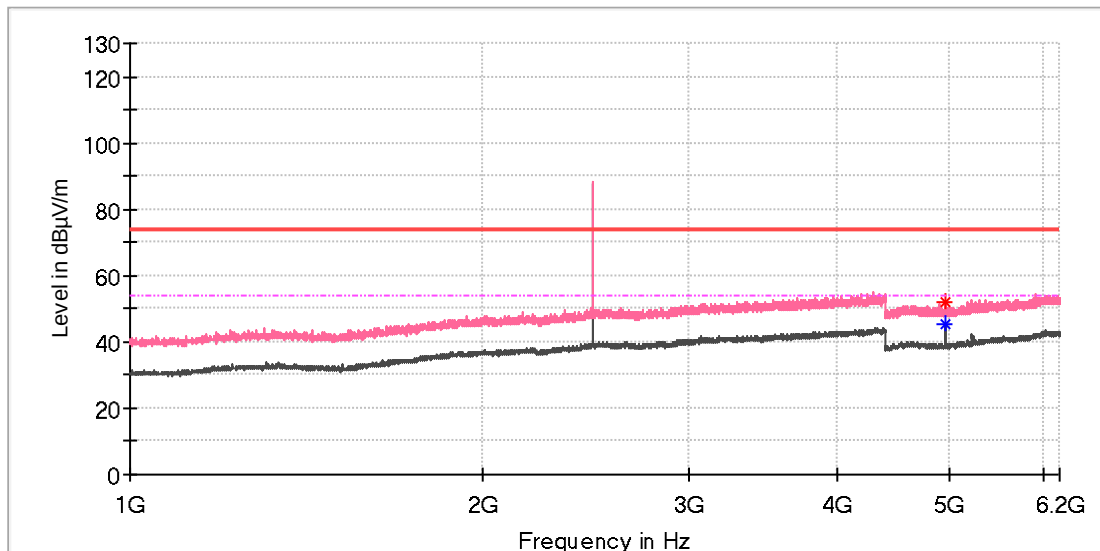
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	55.65	---	74.00	18.35	150.0	H	272.0	11.8
4959.000000	---	48.84	54.00	5.16	150.0	H	272.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_High channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

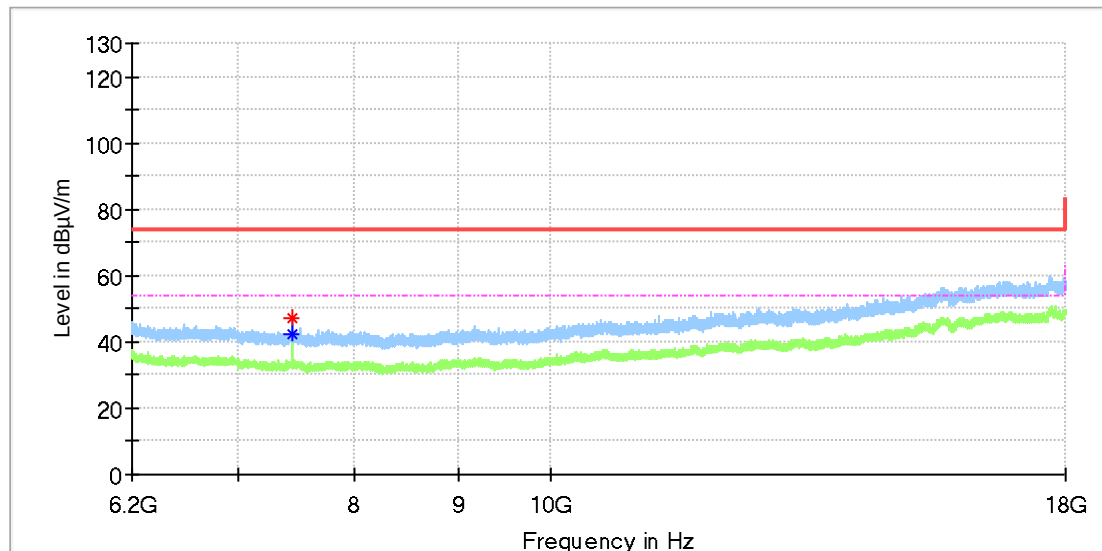
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	45.10	54.00	8.90	150.0	V	276.0	11.8
4960.500000	51.80	---	74.00	22.20	150.0	V	276.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_High channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

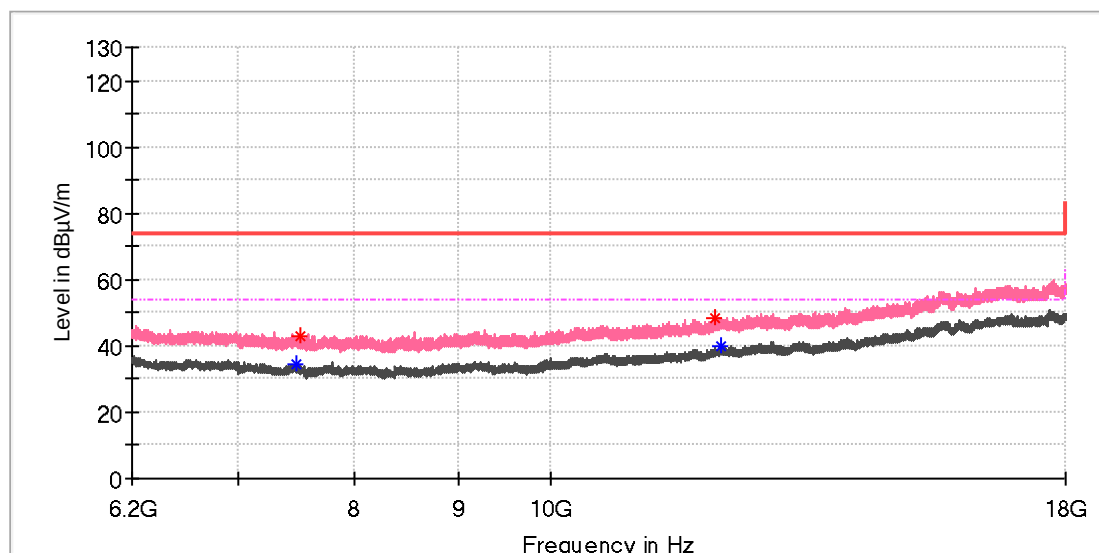
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	46.96	---	74.00	27.04	150.0	H	354.0	8.4
7439.000000	---	42.22	54.00	11.78	150.0	H	354.0	8.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Domyos Challenge Bike
Model: 329494
Test Mode: BLE 1M_High channel
Order No/Sample No: 168442173/A003550290-004
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7472.925000	---	34.22	54.00	19.78	150.0	V	24.0	8.6
7511.766667	43.20	---	74.00	30.80	150.0	V	133.0	8.7
12055.750000	48.45	---	74.00	25.55	150.0	V	183.0	14.0
12151.625000	---	39.87	54.00	14.13	150.0	V	266.0	14.4

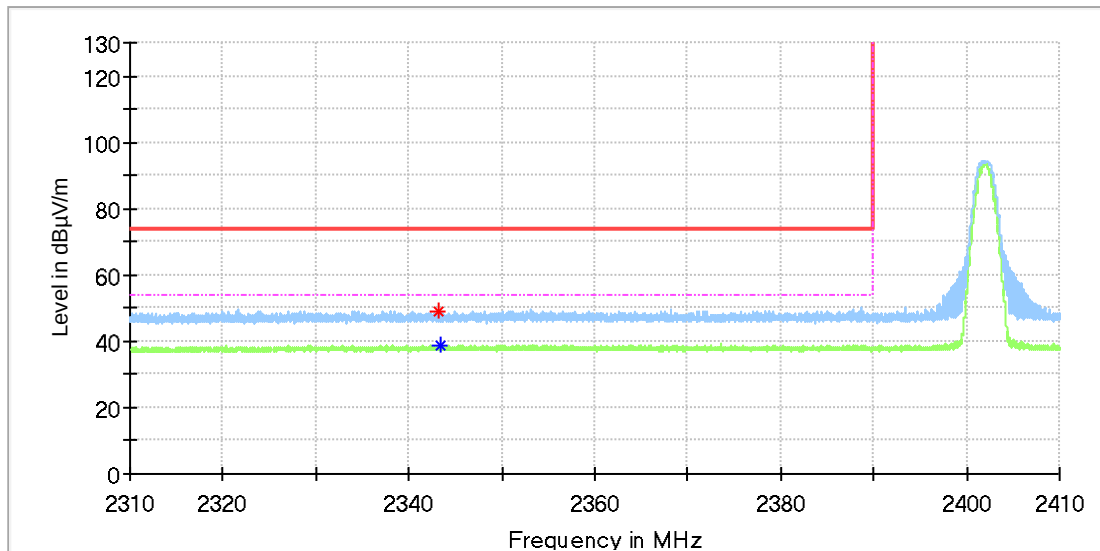
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

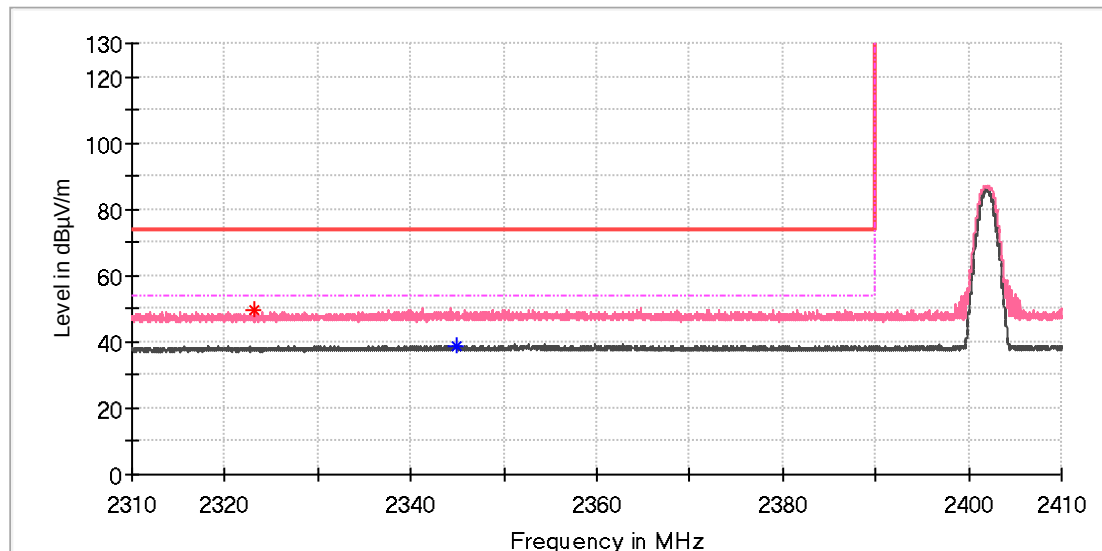
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.161765	49.17	---	74.00	24.83	150.0	H	150.0	6.8
2343.352941	---	38.84	54.00	15.16	150.0	H	260.0	6.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

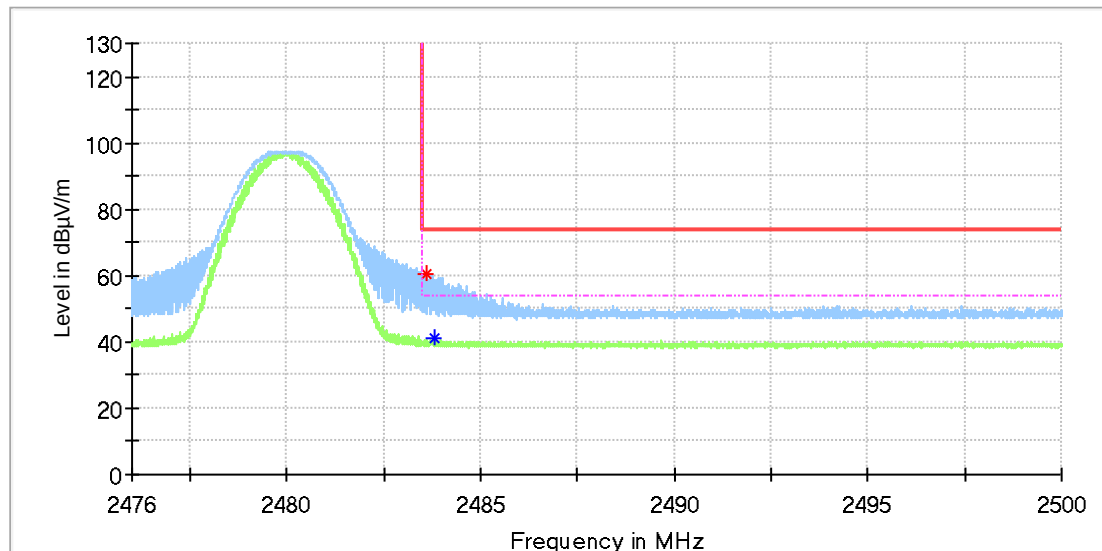
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2323.250000	49.66	---	74.00	24.34	150.0	V	329.0	6.6
2344.897059	---	38.96	54.00	15.04	150.0	V	237.0	6.9

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

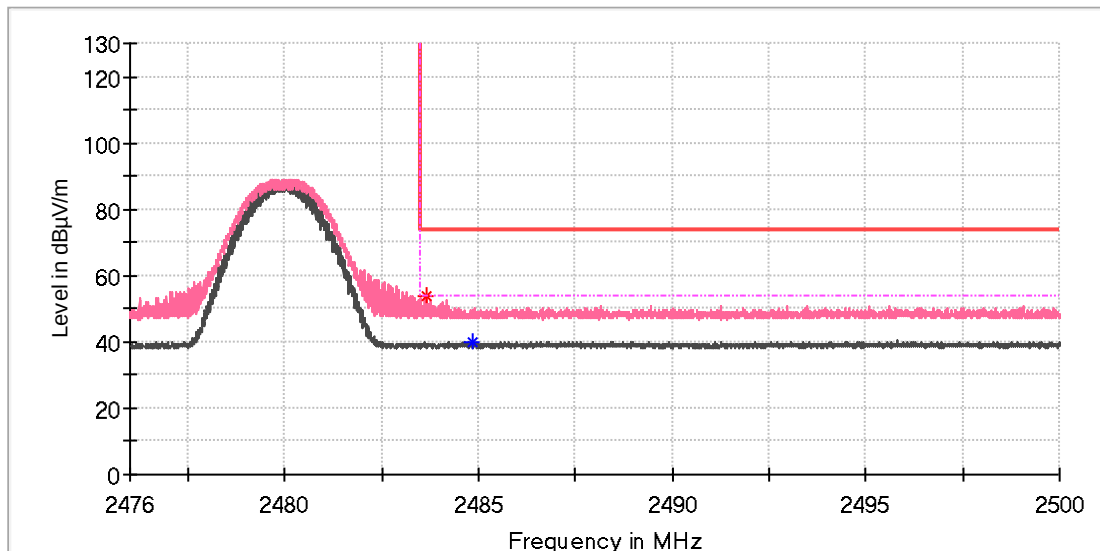
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.612941	60.65	---	74.00	13.35	150.0	H	288.0	7.4
2483.821177	---	40.83	54.00	13.18	150.0	H	91.0	7.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Domyos Challenge Bike
Model:	329494
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168442173/A003550290-004
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



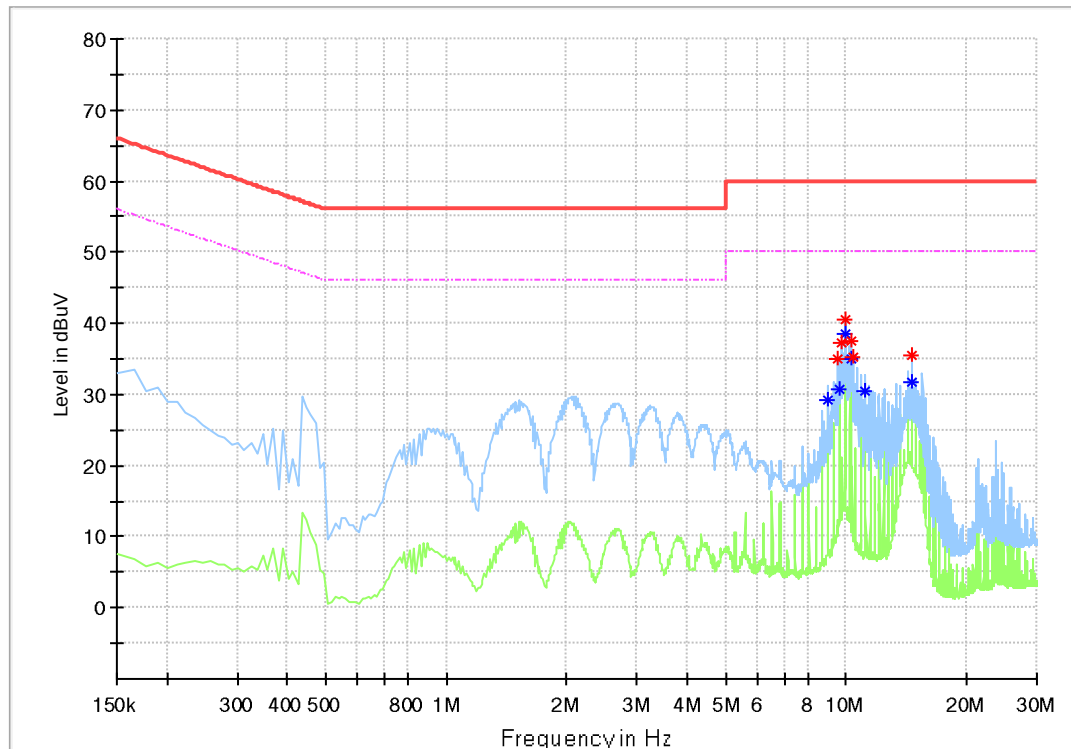
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.665882	53.79	---	74.00	20.21	150.0	V	255.0	7.4
2484.858824	---	39.87	54.00	14.13	150.0	V	235.0	7.4

Final Result

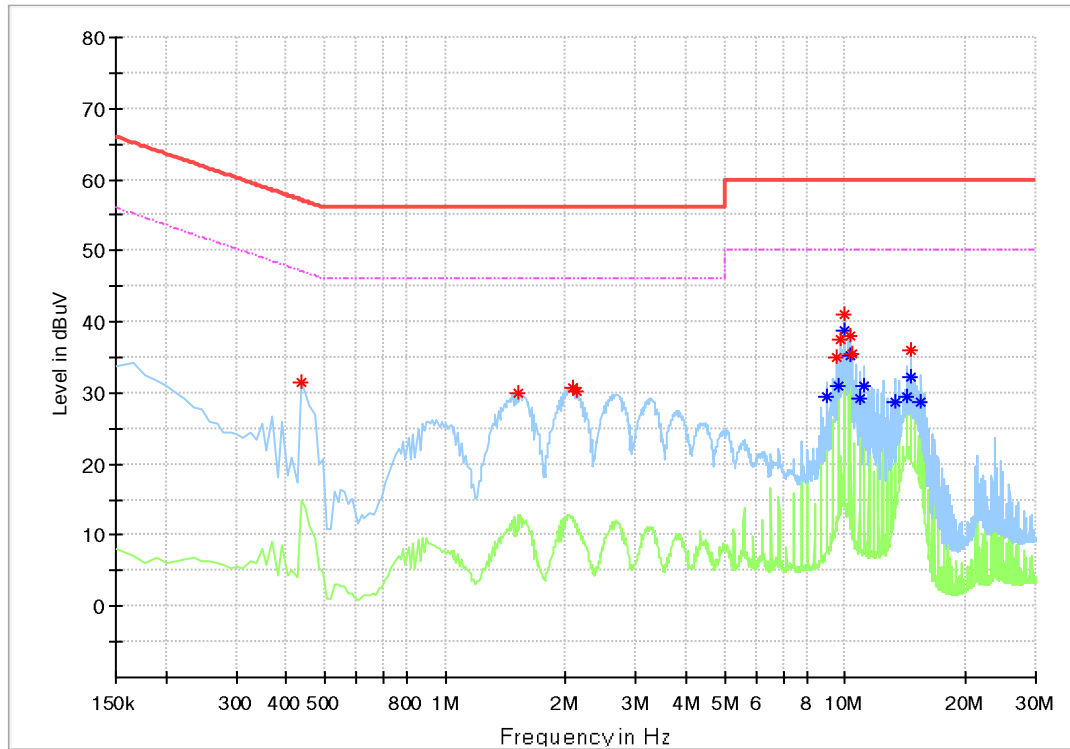
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.7: Test Results of Conducted Emission



Critical_Freqs

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
9.009375	---	29.13	50.00	20.87	L	10.9
9.504375	34.93	---	60.00	25.07	L	10.9
9.628125	---	30.75	50.00	19.25	L	10.9
9.740625	37.34	---	60.00	22.66	L	10.9
9.943125	40.57	---	60.00	19.43	L	10.9
9.943125	---	38.41	50.00	11.59	L	10.9
10.246875	---	34.89	50.00	15.11	L	11.0
10.246875	37.58	---	60.00	22.42	L	11.0
10.438125	35.19	---	60.00	24.81	L	11.0
11.180625	---	30.39	50.00	19.61	L	11.0
14.600625	35.58	---	60.00	24.42	L	11.1
14.600625	---	31.63	50.00	18.37	L	11.1



Critical_Freqs

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.436875	31.48	---	57.12	25.64	N	10.5
1.516875	30.04	---	56.00	25.96	N	10.6
2.079375	30.73	---	56.00	25.27	N	10.7
2.124375	30.25	---	56.00	25.75	N	10.7
8.998125	---	29.35	50.00	20.65	N	11.0
9.504375	35.04	---	60.00	24.96	N	11.0
9.628125	---	31.05	50.00	18.95	N	11.1
9.740625	37.59	---	60.00	22.41	N	11.1
9.931875	---	38.79	50.00	11.21	N	11.1
9.931875	40.93	---	60.00	19.07	N	11.1
10.246875	37.97	---	60.00	22.03	N	11.1
10.246875	---	35.34	50.00	14.66	N	11.1
10.438125	35.50	---	60.00	24.50	N	11.1
10.865625	---	29.09	50.00	20.91	N	11.1
11.180625	---	30.91	50.00	19.09	N	11.1
13.351875	---	28.73	50.00	21.27	N	11.2
14.285625	---	29.37	50.00	20.63	N	11.2
14.589375	36.07	---	60.00	23.93	N	11.2
14.589375	---	32.24	50.00	17.76	N	11.2
15.523125	---	28.66	50.00	21.34	N	11.3