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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Acrox Technologies Co., Ltd.

4F., No. 89, Minshan St., Neihu Dist., Taipei City 114, Taiwan,

R.O.C

Manufacturer: Acrox Technologies Co., Ltd.

4F., No. 89, Minshan St., Neihu Dist., Taipei City 114, Taiwan,

R.O.C

Product Name: HP Wireless Mouse

Brand Name: hp

Model No.: TPA-A004M

Report Number: TERF2401000266E2

FCC ID PRDMU132

Date of EUT Received: Jan. 25, 2024

Date of Test: Jan. 31, 2024~Mar. 13, 2024

Issue Date: Mar. 15, 2024

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2401000266E2	00	Original	Mar. 15, 2024	Yami Kuo			

Note:

1 . The remark "*" indicates modification of the report upon requests from certification

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	HP Wireless Mouse
Brand Name:	hp
Model No.:	TPA-A004M
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	00001
Power Supply:	3.8Vdc from Super capacitor or 5Vdc from USB Port
Test Software (Name/Version)	PXI LINK Tool/v1.3.4

1.2 RF Specification

Radio Technology:	BLE	
Frequency Range:	2402 – 2480MHz	
Channel number:	40 channels	
Modulation type:	GFSK	
Transmit Power:	4.29 dBm	

1.3 Antenna Designation

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
PCB	2402 - 2480	0.05

Note: Antenna information is provided by the applicant.

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1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB
		SAC 1		
		SAC 2		
		SAC 3		
	No 404 Welking Bood New Toing	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0007	
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
SGS Taiwan Ltd.		Conducted 5		
		Conducted 6		
Central RF Lab.		Conduction C	-	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	radyuan dity, raiwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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1.6 **Special Accessories**

There are no special accessories used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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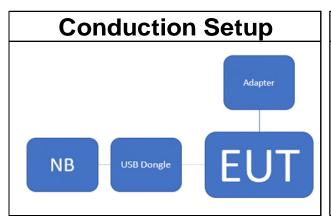
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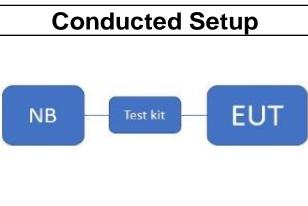
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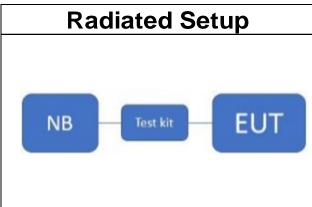


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2.5 **Test Configuration**







2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	T14	P0003332	N/A	N/A		
USB Cable	ACROX	USBC	N/A	N/A	N/A		
Adapter	Lapo	WT-02CA	N/A	N/A	N/A		
	Conducted Emission Test Site: Conducted E						
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
Notebook	Lenovo	T480	P0002332	N/A	N/A		

	Radiated Emission Test Site: SAC C						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Notebook	Lenovo	T14	P0003332	N/A	N/A		
Test Kit	ACROX	FT232RL	N/A	N/A	N/A		

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
1 00 Ruics	•	rtosuit
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge	Compliant
§15.209	and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge	Compliant
§15.209	and Spurious Emission	Compliant
§15.205	Restricted Bands	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

Operating Frequencies 4.1

2400~2483.5 MHz							
СН	Freq.	СН	Freq.	СН	Freq.	СН	Freq.
Cit	(MHz)	5	(MHz)	OII	(MHz)	5	(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4. Investigation has been done on all the possible configurations for searching the worst case.

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CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		
	TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	20	GFSK	1		
	TRANSMIT RAI	DIATED EMISSION T	EST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		

RECEIVE RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
Bluetooth LE	0 to 39	20	GFSK			
	RECEIVE RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
Bluetooth LE	0 to 39	20	GFSK			

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MEASUREMENT UNCERTAINTY

Test Items	Uı	ncertaint	y
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	1.89	dB	9kHz~30MHz	
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz	
Folarization. Vertical	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz	
	+/-	4.02	dB	30MHz - 1000MHz	
Folarization. Horizontal	+/-	3.43	dB	1GHz - 18GHz	
	+/-	3.86	dB	18GHz - 40GHz	
	+/-	2	dB	33GHz-50GHz	
Badiatad Commission Fosia	+/-	1.59	dB	50GHz-60GHz	
Radiated Spurious Emis- sion	+/-	1.7	dB	60GHz-90GHz	
	+/-	1.64	dB	90GHz-140GHz	
	+/-	3.83	dB	140GHz-220GHz	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED

Emission from AC power line 6.1

AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/20/2023	04/19/2024	
EMI Test Receiver	R&S	ESCI	101342	04/24/2023	04/23/2024	
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024	
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted E						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2023	07/06/2024	
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R	
Attenuator	Marvelous	MVE2213-10	RF06	11/15/2023	11/14/2024	
DC Block	PASTERNACK	PE8210	RF157	11/15/2023	11/14/2024	
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024	
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024	
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024	

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6.3 **Radiated Measurement**

Radiated Emission Test Site: SAC C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024	
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024	
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025	
Loop Antenna	ETS.LINDGREN	6502	143303	05/23/2023	05/22/2024	
3m Site NSA	SGS	966 chamber C	N/A	03/02/2023	03/01/2024	
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025	
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/11/2023	04/10/2024	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024	
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024	
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024	
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024	
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024	
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024	

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Fraguency ronge	Limits		
Frequency range	(dBµV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

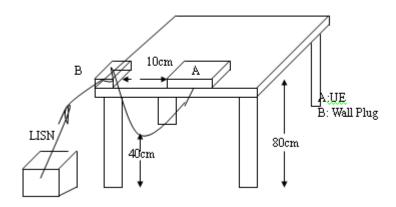
Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 **Measurement Procedure:**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 **Measurement Result:**

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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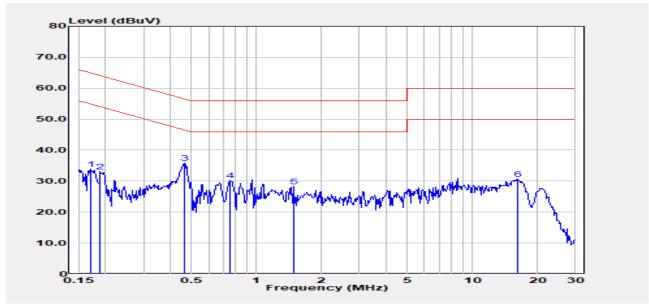


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2401000266E2 Test Site :Conduction C Test Mode :BLE Test Date :2024-02-22 Power :120V/60Hz Temp./Humi. :22.8°C/52%

Probe :Howard Huang :L1 Engineer



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
Peak	23.19	10.65	33.84	64.94	-31.10
Peak	22.47	10.65	33.12	64.10	-30.97
Peak	25.29	10.62	35.91	56.62	-20.71
Peak	19.54	10.66	30.20	56.00	-25.80
Peak	17.57	10.74	28.30	56.00	-27.70
Peak	19.52	11.10	30.62	60.00	-29.38
	Mode PK/QP/AV Peak Peak Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 23.19 Peak 22.47 Peak 25.29 Peak 19.54 Peak 17.57	Mode PK/QP/AV Reading Level dBμV dB Peak 23.19 10.65 Peak 22.47 10.65 Peak 25.29 10.62 Peak 19.54 10.66 Peak 17.57 10.74	Mode PK/QP/AV Reading Level dB μV FS dB μV Peak 23.19 10.65 33.84 Peak 22.47 10.65 33.12 Peak 25.29 10.62 35.91 Peak 19.54 10.66 30.20 Peak 17.57 10.74 28.30	Mode PK/QP/AV Reading Level dB μV FS dB μV dB μV

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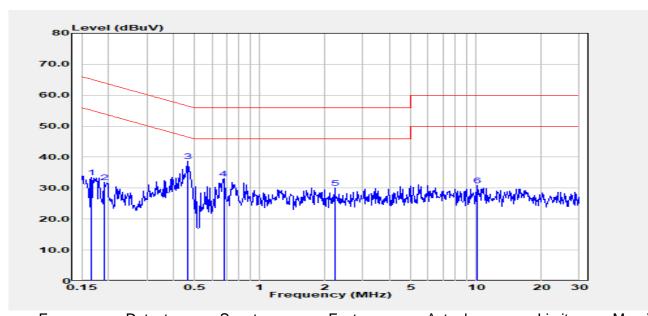


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Test Site Report Number :TERF2401000266E2 :Conduction C

Test Mode :BLE **Test Date** :2024-02-22 Power :120V/60Hz Temp./Humi. :22.8°C/52%

Probe :N Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.166	Peak	22.85	10.66	33.50	65.15	-31.65
0.192	Peak	21.31	10.65	31.96	63.95	-32.00
0.464	Peak	28.07	10.61	38.68	56.62	-17.94
0.680	Peak	22.36	10.63	32.99	56.00	-23.01
2.213	Peak	19.38	10.77	30.15	56.00	-25.85
10.118	Peak	19.87	10.95	30.82	60.00	-29.18

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PEAK OUTPUT POWER MEASUREMENT

8.1 **Standard Applicable:**

8.1.1 **Duty Cycle**

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 **FCC**

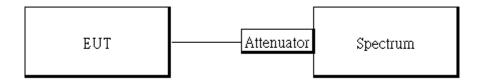
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

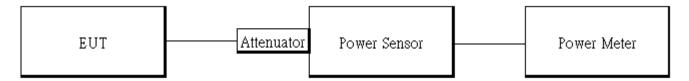
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 **Test Setup**

8.2.1 Duty Cycle



8.2.2 Output Power



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8.3 Measurement Procedure:

8.3.1 Duty Cycle

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero
- 3. RBW = 8MHz, VBW = 8MHz,
- 4. Detector = Peak

8.3.2 Output Power

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

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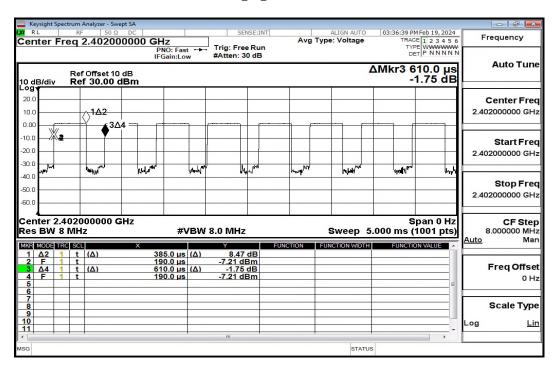


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Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.11	2.00	2.60	3.00

BLE_1M_LowCH00-2402



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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	4	1.98	30
Mid	2442	6	4.29	30
High	2480	6	4.12	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	4	1.66	30
Mid	2442	6	4.07	30
High	2480	6	3.92	30

^{*}Note:

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^{1.}Measured by power meter, cable loss 10 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.



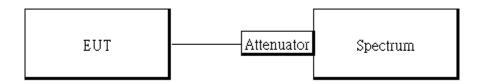
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EMISSION BANDWIDTH MEASUREMENT

9.1 **Standard Applicable**

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 **Test Setup**



9.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 6dB BW measurements

- 1. The testing follows the Measurement Procedure of the KDB 558074 D01.
- 2. Set the spectrum analyzer as

RBW = 100 kHz,

VBW = 3 X RBW.

Span= 2 to 5 times of the OBW,

Sweep=auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of -6dB.
- 4. Repeat above procedures until all test default channel is completed.

9.4 **Measurement Result:**

9.4.1 6dB BW measurements

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7315	≥ 0.5	PASS
2442	0.7338	≥ 0.5	PASS
2480	0.7042	≧ 0.5	PASS

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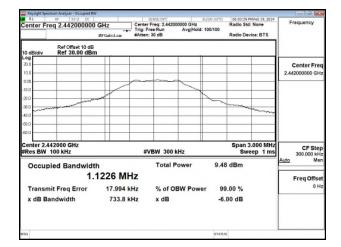
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OBW_BLE 1M_LowCH00-2402MHz

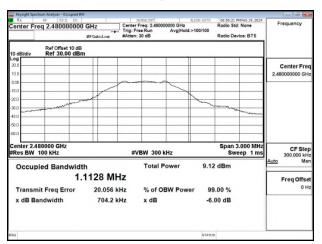
OBW BLE 1M MidCH20-2442MHz



Report No.: TERF2401000266E2

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OBW_BLE 1M_HighCH39-2480MHz



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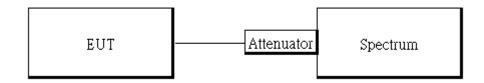
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 **Standard Applicable**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 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).

10.2 **Test Setup**



10.3 **Measurement Procedure**

Reference Level of Emission Limit: 10.3.1

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

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10.3.2 **Conducted Band Edge:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- **5.** Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- **6.** Set DL as the limit = reading on marker of reference level measurement 20dBm
- 7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 8. Repeat above procedures until all default test channel (low and high) was complete.

10.3.3 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

Measurement Result 10.4

BLE 1M Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	0.62	-19.38
2442	2.35	-17.65
2480	1.76	-18.24

^{*}Note:

1.cable loss as 10dB that offsets in the spectrum

2. Refer to next page for plots.

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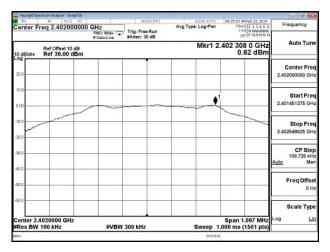
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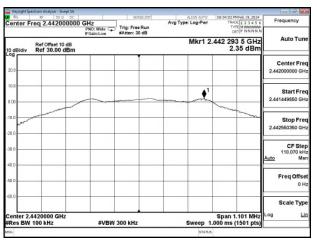


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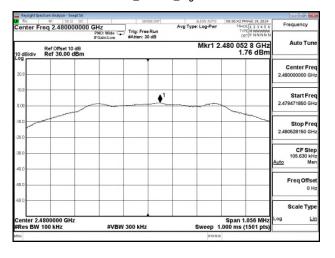
Reference Level_BLE 1M_LowCH00-2402MHz



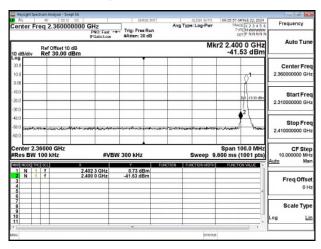
Reference Level BLE 1M MidCH20-2442MHz



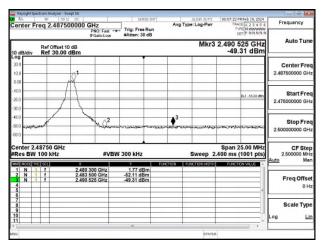
Reference Level_BLE 1M_HighCH39-2480MHz



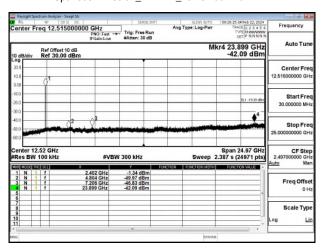
Band Edge_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 1M_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz



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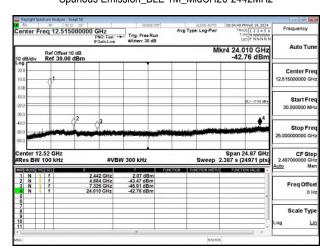
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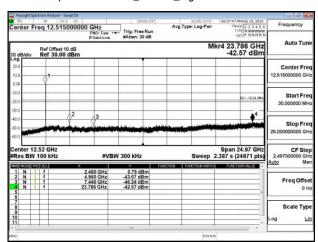
Spurious Emission_BLE 1M_MidCH20-2442MHz

Report No.: TERF2401000266E2

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Spurious Emission_BLE 1M_HighCH39-2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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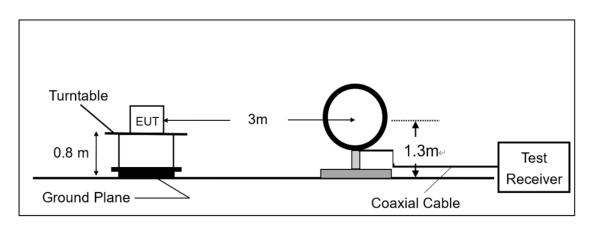
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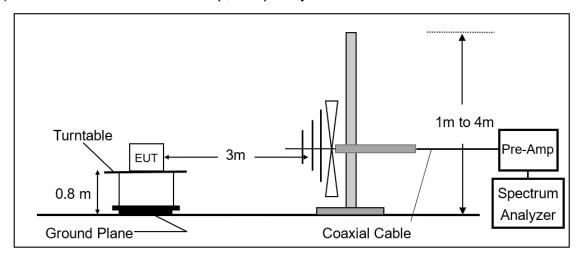
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11.1 **Test Setup**

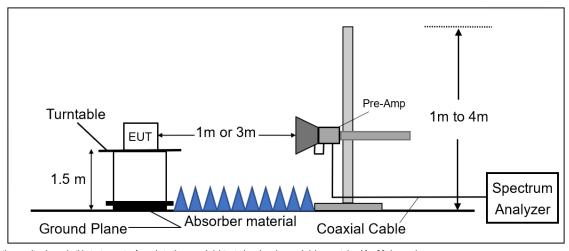
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

 $Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

11.4 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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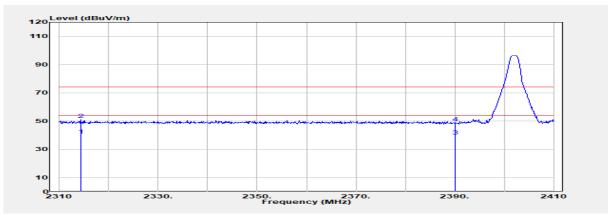
11.4.1 Radiated Band Edge Measurement Result

Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Test Frequency :2402 MHz Temp./Humi. :20.0°C/62%

Test Mode Antenna Pol. :Vertical :Bandedge

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2314.300	Average	43.69	-3.71	39.98	54.00	-14.02
2314.300	Peak	54.79	-3.71	51.08	74.00	-22.92
2390.000	Average	43.49	-4.25	39.24	54.00	-14.76
2390.000	Peak	52.91	-4.25	48.66	74.00	-25.34

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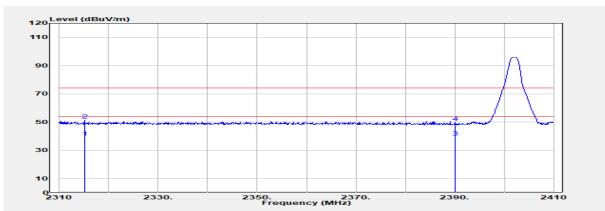


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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Temp./Humi. :20.0°C/62% Test Frequency :2402 MHz Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2315.100	Average	43.20	-3.72	39.48	54.00	-14.52
2315.100	Peak	54.95	-3.72	51.23	74.00	-22.77
2390.000	Average	43.54	-4.25	39.29	54.00	-14.71
2390.000	Peak	53.88	-4.25	49.63	74.00	-24.37

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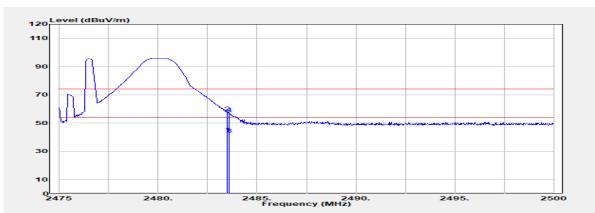
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Temp./Humi. :20.0°C/62% Test Frequency :2480 MHz

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.26	-3.82	42.44	54.00	-11.56
2483.500	Peak	61.46	-3.82	57.64	74.00	-16.36
2483.600	Average	45.66	-3.82	41.84	54.00	-12.16
2483.600	Peak	60.54	-3.82	56.72	74.00	-17.28

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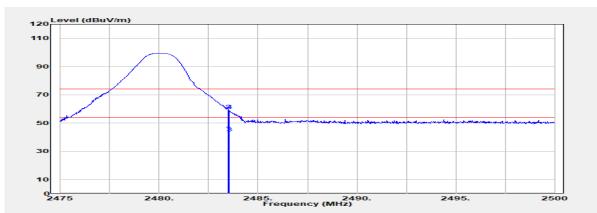


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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-03-13
Test Frequency :2480 MHz Temp./Humi. :20.5°C/60%
Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.62	-3.82	43.80	54.00	-10.20
2483.500	Peak	62.69	-3.82	58.87	74.00	-15.13
2483.550	Average	46.84	-3.82	43.02	54.00	-10.98
2483.550	Peak	62.79	-3.82	58.97	74.00	-15.03

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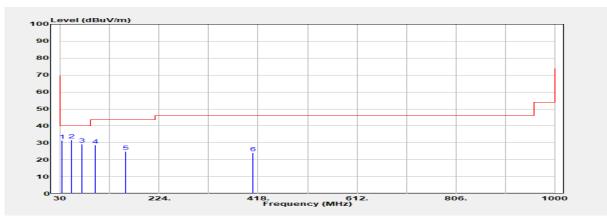
Radiated Spurious Emission 11.4.2

Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M :2024-02-21 Test Date Test Frequency :2442 MHz Temp./Humi. :20.0°C/62%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.910	Peak	48.93	-17.55	31.38	40.00	-8.62
51.340	Peak	46.87	-15.29	31.58	40.00	-8.42
71.710	Peak	47.69	-18.42	29.27	40.00	-10.73
97.900	Peak	49.71	-21.03	28.68	43.50	-14.82
158.040	Peak	40.63	-15.80	24.84	43.50	-18.66
408.300	Peak	36.05	-11.81	24.24	46.00	-21.76

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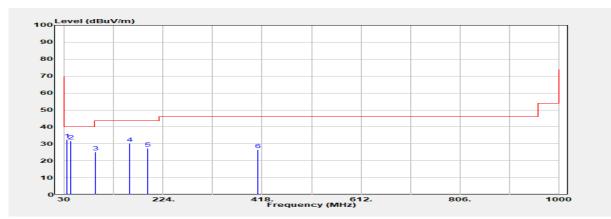
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Temp./Humi. :20.0°C/62% Test Frequency :2442 MHz

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
34.850	Peak	49.80	-17.21	32.60	40.00	-7.40
42.610	Peak	47.92	-16.21	31.70	40.00	-8.30
91.110	Peak	46.80	-21.66	25.13	43.50	-18.37
158.040	Peak	46.05	-15.80	30.25	43.50	-13.25
193.930	Peak	46.17	-18.70	27.47	43.50	-16.03
409.270	Peak	38.31	-11.80	26.50	46.00	-19.50

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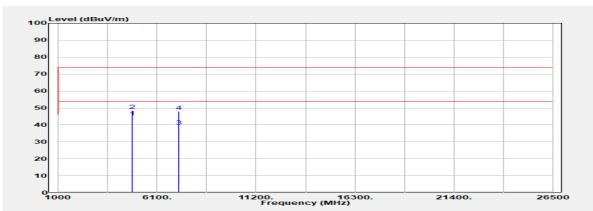
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Test Frequency :2402 MHz Temp./Humi. :20.0°C/62%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	44.02	0.66	44.68	54.00	-9.32
4804.000	Peak	47.82	0.66	48.48	74.00	-25.52
7206.000	Average	32.52	6.89	39.41	54.00	-14.59
7206.000	Peak	41.19	6.89	48.09	74.00	-25.91

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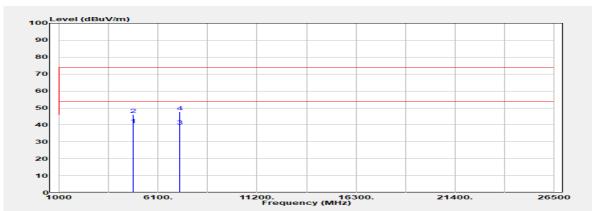
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Test Frequency :2402 MHz Temp./Humi. :20.0 $^{\circ}$ C/62%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
_			·				
		_					
	4804.000	Average	39.50	0.66	40.16	54.00	-13.84
	4804.000	Peak	45.55	0.66	46.21	74.00	-27.79
	7206.000	Average	32.32	6.89	39.21	54.00	-14.79
	7206.000	Peak	40.81	6.89	47.70	74.00	-26.30

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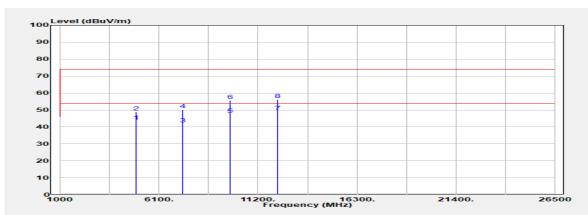
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Test Frequency :2442 MHz Temp./Humi. :20.0 $^{\circ}$ C/62%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	42.93	0.41	43.34	54.00	-10.66
4884.000	Peak	48.50	0.41	48.91	74.00	-25.09
7326.000	Average	35.38	6.38	41.76	54.00	-12.24
7326.000	Peak	43.76	6.38	50.14	74.00	-23.86
9768.000	Average	38.84	8.46	47.30	54.00	-6.70
9768.000	Peak	47.15	8.46	55.60	74.00	-18.40
12210.000	Average	41.54	7.47	49.01	54.00	-4.99
12210.000	Peak	48.75	7.47	56.22	74.00	-17.78

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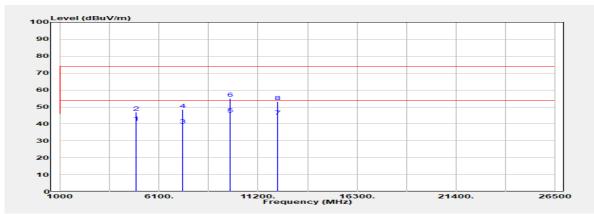
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Temp./Humi. :20.0°C/62% Test Frequency :2442 MHz

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	40.56	0.41	40.97	54.00	-13.03
4884.000	Peak	46.48	0.41	46.89	74.00	-27.11
7326.000	Average	32.86	6.38	39.24	54.00	-14.76
7326.000	Peak	42.06	6.38	48.43	74.00	-25.57
9768.000	Average	37.40	8.46	45.86	54.00	-8.14
9768.000	Peak	46.50	8.46	54.96	74.00	-19.04
12210.000	Average	36.85	7.47	44.32	54.00	-9.68
12210.000	Peak	45.53	7.47	53.00	74.00	-21.00

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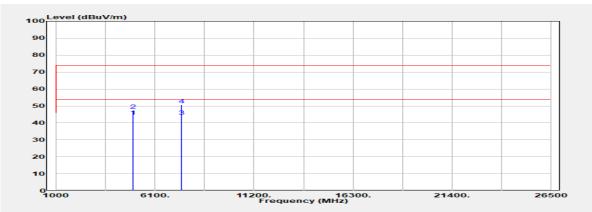
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Temp./Humi. :20.0°C/62% Test Frequency :2480 MHz

Antenna Pol. :Vertical Test Mode :Tx

EUT Pol :E2 Plane :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
		•		_	_	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	43.09	0.70	43.78	54.00	-10.22
4960.000	Peak	46.85	0.70	47.55	74.00	-26.45
7440.000	Average	37.30	6.52	43.82	54.00	-10.18
7440.000	Peak	44.20	6.52	50.71	74.00	-23.29

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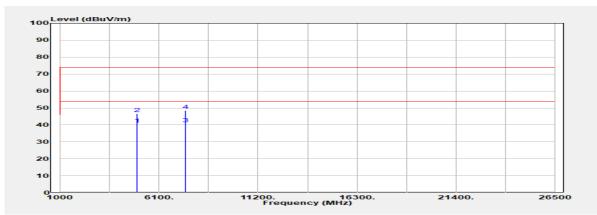
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Report Number :TERF2401000266E2 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2024-02-21 Test Frequency :2480 MHz Temp./Humi. :20.0 $^{\circ}$ C/62%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	39.76	0.70	40.46	54.00	-13.54
4960.000	Peak	45.95	0.70	46.65	74.00	-27.35
7440.000	Average	34.01	6.52	40.53	54.00	-13.47
7440.000	Peak	42.05	6.52	48.57	74.00	-25.43

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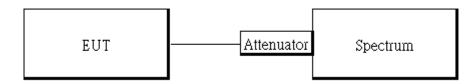
12 POWER SPECTRAL DENSITY

12.1 **Standard Applicable:**

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Test Setup



12.3 **Measurement Procedure:**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

12.4 **Measurement Result:**

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.68	8	PASS
2442	-11.51	8	PASS
2480	-12.02	8	PASS

1.cable loss as 10dB that offsets in the spectrum

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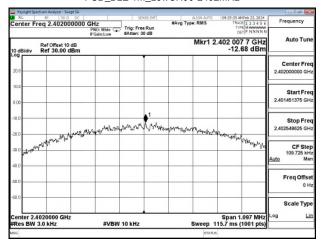
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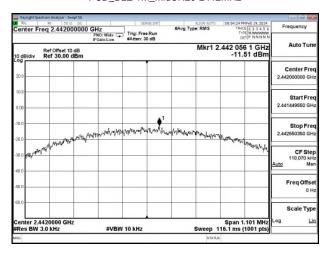


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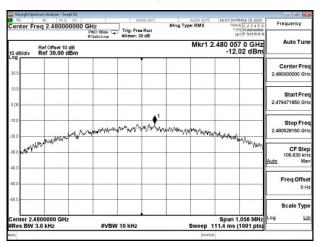
PSD_BLE 1M_LowCH00-2402MHz



PSD_BLE 1M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 **Antenna Connected Construction:**

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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