



ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**





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FCC Applicant: TIEN HSIN INDUSTRIES CO., LTD.

NO.6, WU-GONG 8TH RD., WUFENG DIST., TAICHUNG

CITY 413, TAIWAN (R.O.C.)

FCC Manufacturer: TIEN HSIN INDUSTRIES CO., LTD.

NO.6, WU-GONG 8TH RD., WUFENG DIST., TAICHUNG

CITY 413, TAIWAN (R.O.C.)

Product Name: K-Force WE 12S

FSA Brand Name:

Model No.: RD-ED-8412

Model Difference: N/A

Report Number: TERF2212002572E2

FCC ID 2ALMLKW12RD8412

Date of EUT Received: Dec. 2, 2022

Date of Test: Dec. 14, 2022~Oct. 5, 2023

Issue Date: Nov. 3, 2023

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 Revision **Report Number Description Issue Date** Revised By Remark TERF2212002572E2 Jan. 31, 2023 Candice Li 00 Original Add Conduction data, TERF2212002572E2 01 Oct. 13, 2023 Candice Li modify Control units Modify OBW data& TERF2212002572E2 02 Measurement Procedure, Nov. 3, 2023 Candice Li antenna brand

Note:

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

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GENERAL INFORMATION

1.1 **Product Description**

Product Name:	K-Force WE 12S
Brand Name:	FSA
Model No.:	RD-ED-8412
Model Difference:	N/A
Hardware Version:	S132.7.2.0
Firmware Version:	S132.7.2.0
Power Supply:	7.4Vdc from li-battery
Test Software (Name/Version) Tera Term V4.106	

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE: -5.75dBm

1.3 **Antenna Designation**

Antenna	Brand	Antenna	Freq.	Peak Antenna
Type		Part No.	(MHz)	Gain (dBi)
Copper Foil Sticker Antenna	FSA	RD-Antenna	2400~2483	3.76

Note:

- Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 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.134, Wu Kung Road, New Taipei	Conduction 1		
	Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 440021	
	raiper City, Taiwaii.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		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	
	ladyddii Oity, falwaii 300	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.

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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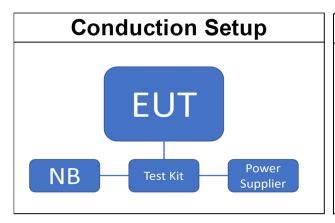
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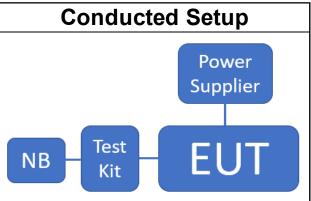


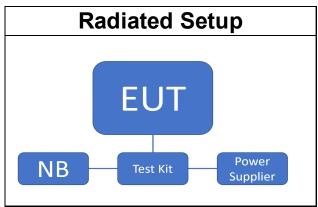
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2.5 **Test Configuration**







2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBI	ER LAST CAL.	CAL DUE.			
Notebook	Lenovo	T440p	P0000665	N/A	N/A			
Test kit	Atech OEM	DF01X	N/A	N/A	N/A			
	Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Test kit	Atech OEM	DF01X	N/A	N/A N/A				
Notebook	Lenovo	T420	S0012599	N/A	N/A			
	Radiated Emission Test Site: SAC D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Notebook	Lenovo	T440p	P0000665	N/A	N/A			
Test kit	Atech OEM	DF01X	N/A	N/A				

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§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) §15.205 §15.209	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

_	_				
ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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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.

CONDUCTED TEST							
MODE AVAILABLE TESTED MODULATION DATA RATE (Mbps)							
Bluetooth LE	0 to 39	0,20,39	GFSK	1			

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE TESTED CHANNEL		MODULATION	DATA RATE (Mbps)			
Bluetooth LE	GFSK	1					
	RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	I MODULATION I		DATA RATE (Mbps)				
Bluetooth LE	0 to 39	0,20,39	GFSK	1			

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5 MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	ty
AC Power Line Conducted Emission	+/-	2.32	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Peak Power Density	+/-	2.16	dB
Temperature	+/-	0.7	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	2.8	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.82	dB	30MHz - 1000MHz		
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz		
	+/-	4.21	dB	18GHz - 40GHz		
	+/-	2.8	dB	9kHz~30MHz		
 Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz		
Polarization. Horizontal	+/-	4.37	dB	1GHz - 18GHz		
	+/-	4.21	dB	18GHz - 40GHz		

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

6.1 **Emission from AC power line**

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	
DC Power Supply	Agilent	E3640A	MY53130054	10/02/2023	10/01/2024	
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 D							
EQUIPMENT TYPE	MFR	MODEL NUMBER SERIAL NUMBER		LAST CAL.	CAL DUE.		
Spectrum Analyzer	Spectrum Analyzer KEYSIGHT		MY59071573	05/16/2022	05/15/2023		
Power Meter	Anritsu	Anritsu ML2496A 15	1512003	07/26/2022	07/25/2023 07/25/2023		
Power Sensor		MA2411B	1339378	07/26/2022			
Power Sensor		MA2411B	1339379 RF17	07/26/2022	07/25/2023		
Attenuator	Woken	WATT-218FS-10		11/16/2022	11/15/2023		
Attenuator Woken Test Software SGS Taiwan		WATT-218FS-10	RF18	11/16/2022	11/15/2023		
		Radio Test	Ver.21	N.C.R	N.C.R		
DC Block	PASTERNACK	PE8210	RF158	11/16/2022	11/15/2023		

6.3 **Radiated Measurement**

Radiated Emission Test Site: SAC D						
EQUIPMENT TYPE	MFR	MFR MODEL NUMBER		LAST CAL.	CAL DUE.	
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/11/2022	11/10/2023	
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023	
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023	
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023	
3m Site NSA	SGS	966 chamber D N9010A	N/A	04/30/2022	04/29/2023	
Spectrum Analyzer	KEYSIGHT		MY57120200	03/24/2022	03/23/2023	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
DC Power Supply	Agilent	E3640A	MY53130054	09/29/2022	09/28/2023	
Pre-Amplifier	EMC Instruments	EM26400	971576	10/02/2022	10/01/2023 11/15/2023	
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/16/2022		
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/16/2022	11/15/2023	
Attenuator	Woken	WATT-218FS-10	RF17	11/16/2022	11/15/2023	
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/16/2022	11/15/2023	
Coaxial Cable	Huber Suhner	EMC106-SM-SM- 7200	150703	11/16/2022	11/15/2023	
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/16/2022	11/15/2023	

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.

Frequency range	Limits (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	

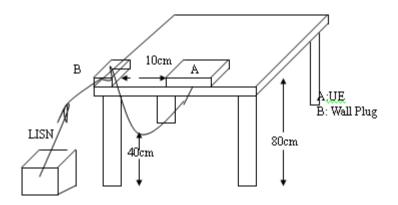
Note

- 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 120-240Vac/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 test data reveals the worst-case results that closest to the limit.

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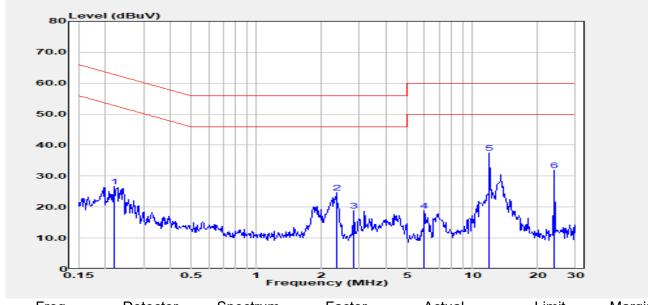
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2212002572E2 **Test Site** :Conduction C

Test Mode :BLE **Test Date** :2023-10-05 Power :120V/60Hz Temp./Humi. :22.1°C/62%

Probe :L1 :Howard Huang Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.218	Peak	15.97	10.65	26.62	62.90	-36.28
2.349	Peak	13.82	10.80	24.62	56.00	-31.38
2.831	Peak	8.05	10.83	18.88	56.00	-37.12
5.977	Peak	7.87	10.96	18.83	60.00	-41.17
11.991	Peak	26.40	11.01	37.41	60.00	-22.59
24.057	Peak	20.67	11.26	31.93	60.00	-28.07

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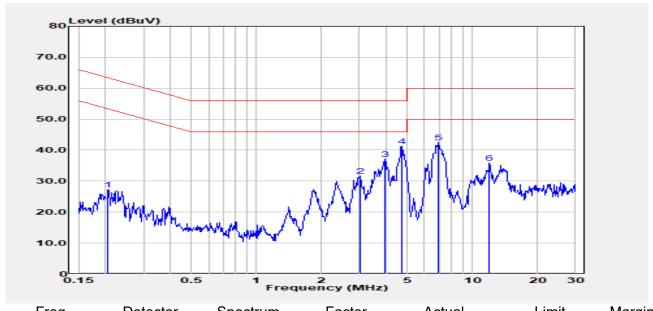
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Report Number :TERF2212002572E2 **Test Site** :Conduction C

Test Mode :BLE **Test Date** :2023-10-05 Power :120V/60Hz Temp./Humi. :22.1°C/62%

Probe Engineer :Howard Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.205	Peak	16.71	10.65	27.36	63.39	-36.03
3.030	Peak	20.86	10.83	31.69	56.00	-24.31
3.909	Peak	26.29	10.87	37.17	56.00	-18.83
4.712	Peak	30.31	10.92	41.23	56.00	-14.77
6.964	Peak	31.55	10.94	42.50	60.00	-17.50
11.991	Peak	24.87	11.01	35.88	60.00	-24.12

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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

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.

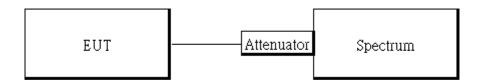
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.

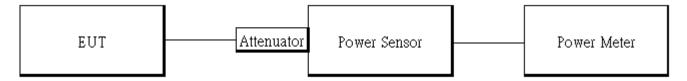
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 **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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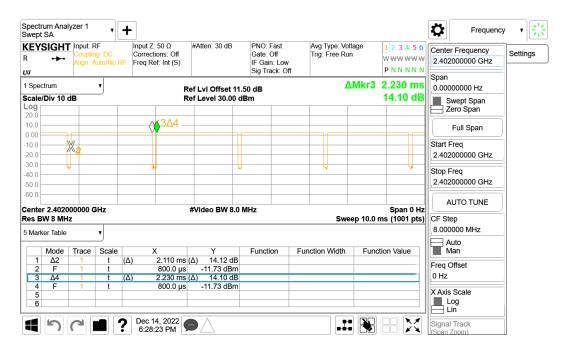
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8.4 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	94.62	0.24	0.47	1.00

BLE_1M_LowCH00-2402



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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)		
Low	2402	2	-5.81	30		
Mid	2442	2	-5.91	30		
High	2480	2	-5.75	30		
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)		
Low	2402	2	-6.96	30		
Mid	2442	2	-7.03	30		
High	2480	2	-6.90	30		

^{*}Note: Measured by power meter, cable loss 11.5 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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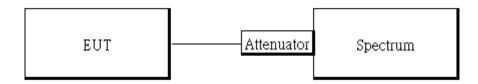
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EMISSION BANDWIDTH MEASUREMENT

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 **FCC** 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.

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9.4 **Measurement Result:**

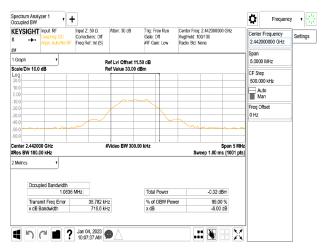
BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7108	≥ 0.5	PASS
2442	0.7166	≥ 0.5	PASS
2480	0.7186	≥ 0.5	PASS

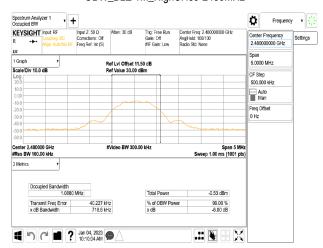
OBW_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Occupied BW ٥ KEYSIGHT Input: RF Settings Ref Lvi Offset 11.50 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step 500.000 kHz Auto Man Freq Offset #Res BW 100.00 kH; ep 1.00 ms (10 Occupied Bandwidth 1.0760 MHz Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -6.00 dB Dec 14, 2022 6:41:50 PM .:: 🕦 🖁 💢

OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



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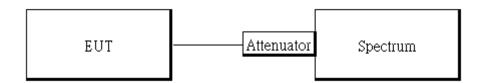
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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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Report No.: TERF2212002572E2

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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)	· · · = PS	
2402	-7.35	-27.35
2442	-7.46	-27.46
2480	-7.54	-27.54

NOTE: cable loss as 11.5dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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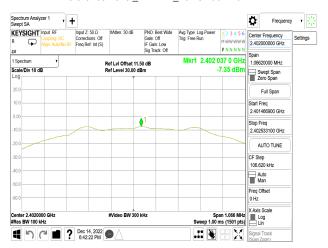
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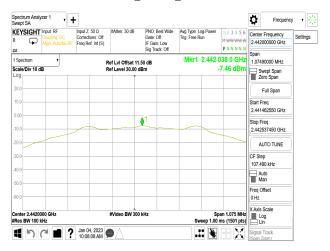
Page: 26 of 45



Reference Level BLE 1M LowCH00-2402MHz



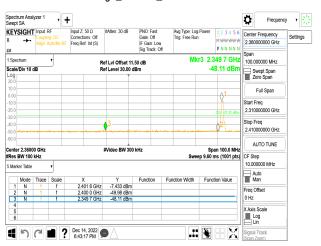
Reference Level BLE 1M MidCH20-2442MHz



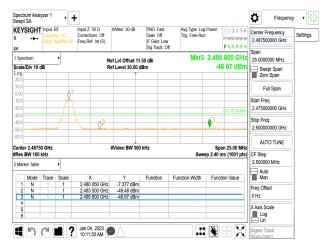
Reference Level_BLE 1M_HighCH39-2480MHz



Band Edge BLE 1M LowCH00-2402MHz



Band Edge_BLE 1M_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz



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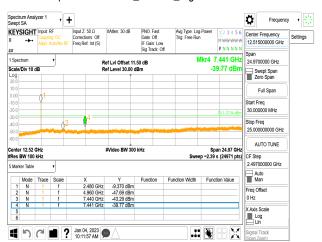
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Spurious Emission_BLE 1M_MidCH20-2442MHz



Spurious Emission_BLE 1M_HighCH39-2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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 must also comply with the §15.209 limit as below.

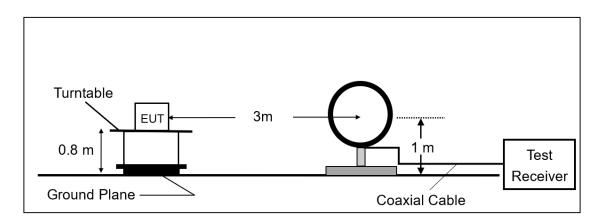
And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

Test Setup 11.2

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



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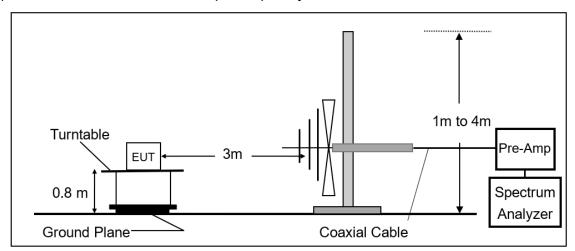
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Report No.: TERF2212002572E2

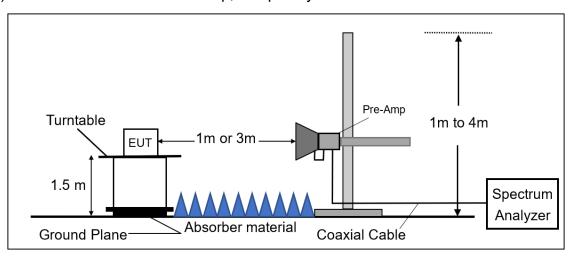
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



11.3 Measurement Procedure

- 1. 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.

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Report No.: TERF2212002572E2

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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.
- 10. 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.

11.4 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 μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

11.5 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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Measurement Result:

11.6.1 **Radiated Band Edge Measurement Result**

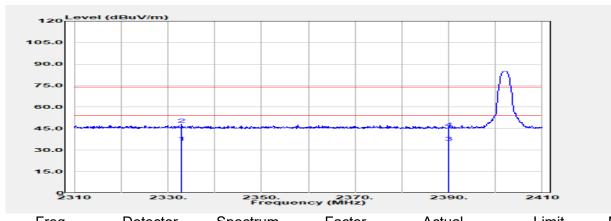
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2402 MHz Temp./Humi. :24.9/50

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
2333.000	Average	42.48	-6.86	35.62	54.00	-18.38
2333.000	Peak	54.92	-6.86	48.06	74.00	-25.94
2390.000	Average	42.53	-7.04	35.49	54.00	-18.51
2390.000	Peak	52.57	-7.04	45.53	74.00	-28.47

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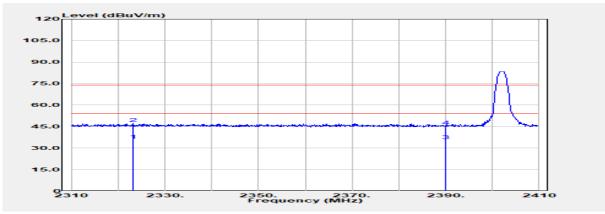
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2402 MHz Temp./Humi. :24.9/50

Antenna Pol. :Horizontal **Test Mode** :Bandedge

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
2323.100	Average	42.33	-6.83	35.50	54.00	-18.50
2323.100	Peak	54.19	-6.83	47.36	74.00	-26.64
2390.000	Average	42.35	-7.04	35.31	54.00	-18.69
2390.000	Peak	52.60	-7.04	45.55	74.00	-28.45

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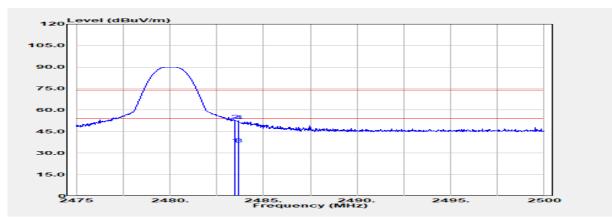


Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2480 MHz Temp./Humi. :24.9/50 **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	43.69	-7.20	36.50	54.00	-17.50
2483.500	Peak	60.06	-7.20	52.86	74.00	-21.14
2483.650	Average	43.51	-7.20	36.31	54.00	-17.69
2483.650	Peak	59.74	-7.20	52.54	74.00	-21.46

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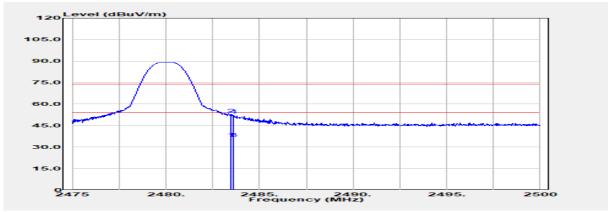
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2480 MHz Temp./Humi. :24.9/50

Antenna Pol. :Horizontal **Test Mode** :Bandedge

EUT Pol :E2 Plane :Howard Huang Engineer



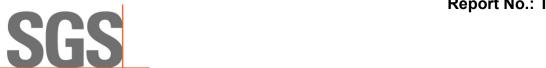
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.39	-7.20	36.20	54.00	-17.80
2483.500	Peak	60.11	-7.20	52.91	74.00	-21.09
2483.600	Average	43.41	-7.20	36.21	54.00	-17.79
2483.600	Peak	59.40	-7.20	52.20	74.00	-21.80

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11.6.2 Radiated Spurious Emission

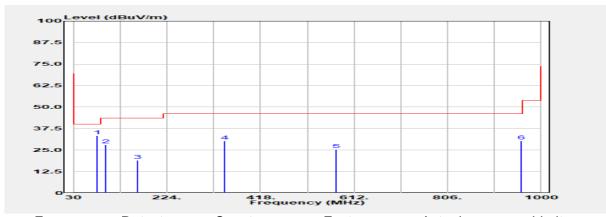
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2442 MHz Temp./Humi. :24.9/50

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
80.440	Peak	55.39	-22.17	33.22	40.00	-6.78
95.960	Peak	50.15	-22.04	28.11	43.50	-15.39
162.890	Peak	35.47	-16.37	19.09	43.50	-24.41
344.280	Peak	45.79	-15.38	30.40	46.00	-15.60
575.140	Peak	35.53	-10.17	25.36	46.00	-20.64
957.320	Peak	34.84	-4.45	30.39	46.00	-15.61

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Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2442 MHz Temp./Humi. :24.9/50

Antenna Pol. :Horizontal Test Mode :Tx

EUT Pol :E2 Plane :Howard Huang Engineer



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
Peak	51.52	-19.74	31.78	40.00	-8.22
Peak	51.98	-22.04	29.94	43.50	-13.56
Peak	49.94	-18.43	31.50	43.50	-12.00
Peak	43.06	-15.44	27.62	46.00	-18.38
Peak	34.98	-11.67	23.31	46.00	-22.69
Peak	34.24	-4.44	29.79	46.00	-16.21
	Mode PK/QP/AV Peak Peak Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 51.52 Peak 51.98 Peak 49.94 Peak 43.06 Peak 34.98	Mode PK/QP/AV Reading Level dBμV dB Peak 51.52 -19.74 Peak 51.98 -22.04 Peak 49.94 -18.43 Peak 43.06 -15.44 Peak 34.98 -11.67	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode PK/QP/AVReading Level dBμVFS dBμV/m@3m dBμV/mPeak 51.52 -19.74 31.78 40.00 Peak 51.98 -22.04 29.94 43.50 Peak 49.94 -18.43 31.50 43.50 Peak 43.06 -15.44 27.62 46.00 Peak 34.98 -11.67 23.31 46.00

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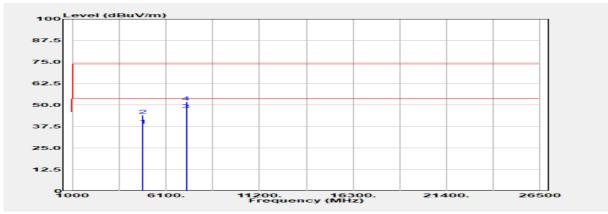
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2402 MHz Temp./Humi. :24.9/50

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
4804.000	Average	40.45	-2.06	38.39	54.00	-15.61
4804.000	Peak	46.11	-2.06	44.05	74.00	-29.95
7206.000	Average	43.00	4.26	47.26	54.00	-6.74
7206.000	Peak	47.60	4.26	51.86	74.00	-22.14

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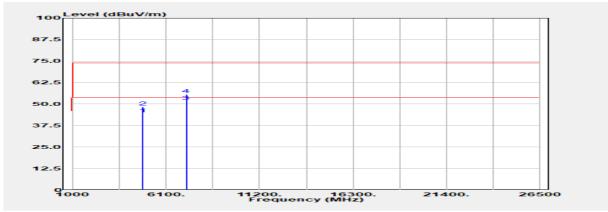
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Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2402 MHz Temp./Humi. :24.9/50

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
4804.000	Average	46.45	-2.06	44.39	54.00	-9.61
4804.000	Peak	50.47	-2.06	48.41	74.00	-25.59
7206.000	Average	47.40	4.26	51.66	54.00	-2.34
7206.000	Peak	51.37	4.26	55.63	74.00	-18.37

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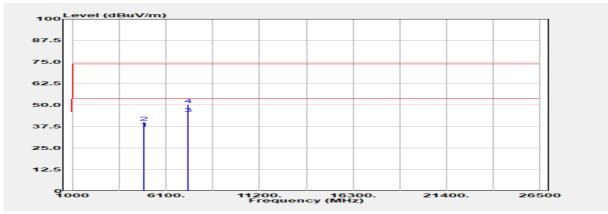
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2442 MHz Temp./Humi. :24.9/50

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	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	38.66	-2.12	36.54	54.00	-17.46
4884.000	Peak	42.15	-2.12	40.02	74.00	-33.98
7326.000	Average	40.32	4.73	45.05	54.00	-8.95
7326.000	Peak	45.68	4.73	50.41	74.00	-23.59

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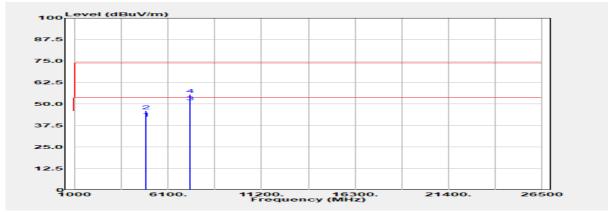
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2442 MHz Temp./Humi. :24.9/50

Antenna Pol. :HORIZONTAL Test Mode :Tx

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	43.88	-2.12	41.76	54.00	-12.24
4884.000	Peak	48.17	-2.12	46.04	74.00	-27.96
7326.000	Average	46.53	4.73	51.26	54.00	-2.74
7326.000	Peak	50.88	4.73	55.60	74.00	-18.40

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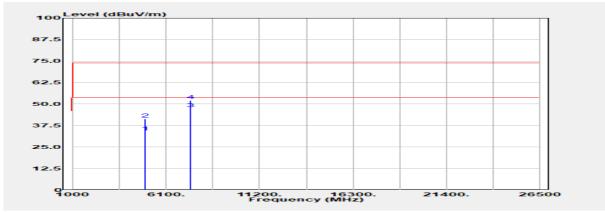
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Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2480 MHz Temp./Humi. :24.9/50

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
4960.000	Average	35.47	-1.59	33.88	54.00	-20.12
4960.000	Peak	43.00	-1.59	41.40	74.00	-32.60
7440.000	Average	43.51	3.95	47.46	54.00	-6.54
7440.000	Peak	48.18	3.95	52.13	74.00	-21.87

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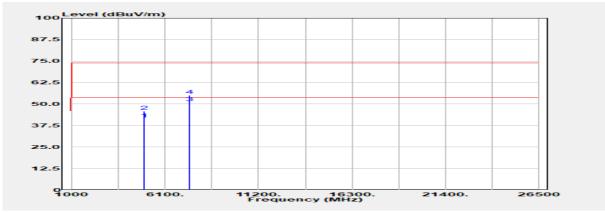
Report Number :TERF2212002572E2 Test Site :SAC D

Operation Mode :BLE 1M Test Date :2023-01-03

Test Frequency :2480 MHz Temp./Humi. :24.9/50

Antenna Pol. :HORIZONTAL Test Mode :Tx

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	42.98	-1.59	41.38	54.00	-12.62
4960.000	Peak	47.39	-1.59	45.79	74.00	-28.21
7440.000	Average	46.82	3.95	50.77	54.00	-3.23
7440.000	Peak	51.18	3.95	55.13	74.00	-18.87

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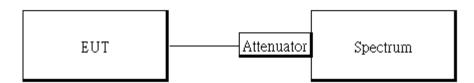
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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

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.
- 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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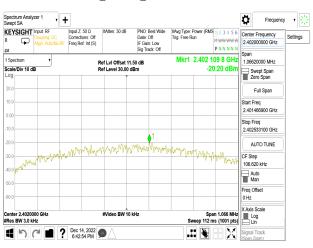
12.4 Measurement Result:

BLF 1M mode

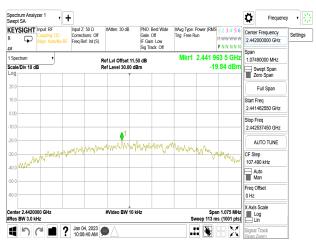
DLL IWIIIOGE							
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result				
2402	-20.200	8	PASS				
2442	-19.840	8	PASS				
2480	-19.770	8	PASS				

NOTE: cable loss as 11.5dB that offsets in the spectrum

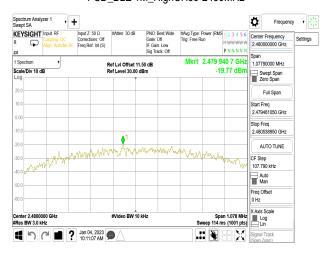
PSD_BLE 1M_LowCH00-2402MHz



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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