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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Silex Technology, Inc.

2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Ja-

pan

Manufacturer: Silex Technology, Inc.

2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Ja-

pan

Product Name: Embedded wireless module

Brand Name: Silex Technology

Model No.: **SX-PCEAX**

Report Number: TERF2304001053ER

FCC ID N6C-PCEAX

IC: 4908A-PCEAX

Date of EUT Received: April 26, 2023

Date of Test: April 27, 2023~June 16, 2023

Issue Date: November 23, 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, ISED RSS-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		
TERF2304001053ER	00	Original	November 03, 2023	Yami Kuo			
TERF2304001053ER	01	Revise the Firm- ware Version	November 23, 2023	Yami Kuo	*		

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:	Embedded wireless module
Brand Name:	Silex Technology
Model No.:	SX-PCEAX
Hardware Version:	N/A
Firmware Version:	HY103710
EUT Series No.:	1CBCEC011DAC
Power Supply:	3.3Vdc
Test Software (Name/Version)	QRCT V4.0.210.0

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 4.08 dBm BLE 2M: 4.30 dBm

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Mananala	2J antennas	2JZ74	2402 - 2480	4.9
Monopole	Taoglas	GW.05.0153	2402 - 2480	3.686

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.
- 3. As per section F. 2). (ii) of FCC KDB 662911 D01

 If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• Directional Gain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $gj_k = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; Gk is the gain in dBi of the kth antenna.

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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 RSS-247 issue 2 Feb. 2017 RSS-Gen, Issue 5 April 2018 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 W. K. or Boot No. Trivol	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		
		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	
	raoyuan ony, raiwan 555	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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SYSTEM TEST CONFIGURATION

EUT Configuration 2.1

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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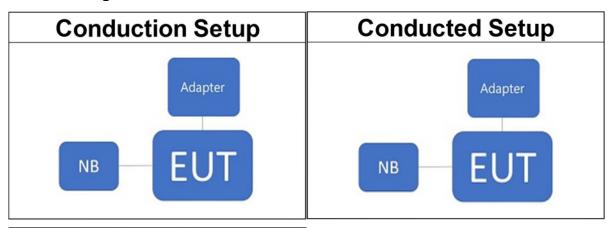
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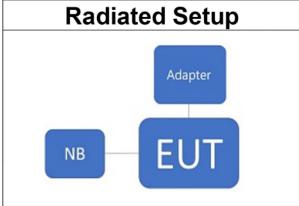


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2.5 **Test Configuration**





2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1						
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.					
Notebook Lenovo L480 PF-1D07MD 19/08 N/A N/A						
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A	

Conducted Emission Test Site: Conducted 1						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
Adapter	Adapter EDAC EA10682N-120 N/A N/A N/A					
Notebook	Lenovo	T430S	R9-WW5EG 13/0	N/A	N/A	

Radiated Emission Test Site: SAC 2						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.					CAL DUE.	
Notebook	Notebook Lenovo L480 PF-1D07MD 19/08 N/A N/A					
Adapter						

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated Band Edge and Spurious Emission	Compliant

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DESCRIPTION OF TEST MODES

Operating Frequencies 4.1

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		

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	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1	
Bluetooth LE	0 to 39	0,20,39	GFSK	2	

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	20	GFSK	1		
Bluetooth LE	0 to 39	20	GFSK	2		
	RADIATED	EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		
Bluetooth LE	0 to 39	0,20,39	GFSK	2		

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5 MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	:y
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				
Polarization: Vertical	+/-	2.8	dB	9kHz~30MHz
	+/-	4.82	dB	30MHz - 1000MHz
	+/-	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

Emission from AC power line 6.1

	AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R	
LISN	SCHWARZBECK	NSLK 8127	1040	08/23/2022	08/22/2023	
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2022	06/21/2023	
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023	
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024	

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted 1						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/13/2022	12/12/2023	
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R	
Power Meter	Anritsu	ML2496A	1242004	10/26/2022	10/25/2023	
Power Sensor	Anritsu	MA2411B	1207365	10/26/2022	10/25/2023	
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023	

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Radiated Measurement

		Radiated Emission	Test Site: SAC 2		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/23/2022	12/22/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/23/2022	12/22/2023
Coaxial Cables	EMCI	EMCCFD400-NM- NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM- 600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM- 2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM- 10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM- 1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM- 1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM- 2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM- NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM- 2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023

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		

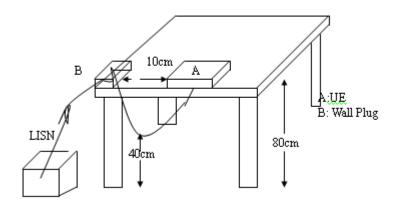
Note

- 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 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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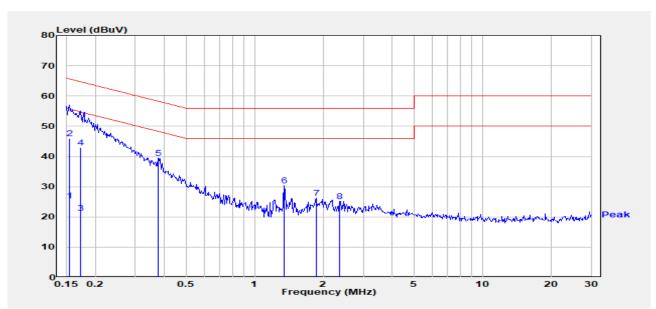
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2304001053ER Test Site :Conduction 1

Operation Mode :BLE **Test Date** :2023-06-16

Power :120V/60Hz Temp./Humi. :24.6°C/65%

Probe :L Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.153	Average	15.04	10.25	25.29	55.81	-30.52
0.153	QP	35.67	10.25	45.92	65.81	-19.89
0.172	Average	11.06	10.25	21.31	54.85	-33.54
0.172	QP	32.73	10.25	42.98	64.85	-21.87
0.377	Peak	29.12	10.25	39.37	58.35	-18.98
1.349	Peak	19.59	10.67	30.26	56.00	-25.74
1.862	Peak	15.16	11.01	26.17	56.00	-29.83
2.362	Peak	14.18	10.98	25.16	56.00	-30.84

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Report Number :TERF2304001053ER

Operation Mode :BLE

Power :120V/60Hz

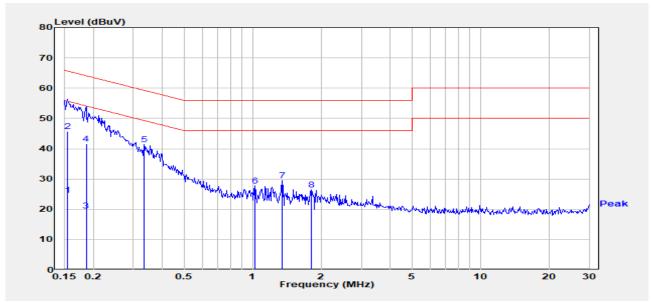
Probe :N

Test Site :Conduction 1

Test Date :2023-06-16

Temp./Humi. :24.6°C/65%

Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.153	Average	14.38	10.25	24.63	55.81	-31.18
0.153	QP	35.57	10.25	45.82	65.81	-19.99
0.186	Average	9.17	10.25	19.42	54.21	-34.79
0.186	QP	31.46	10.25	41.71	64.21	-22.50
0.333	Peak	31.08	10.25	41.33	59.37	-18.04
1.023	Peak	17.29	10.38	27.68	56.00	-28.32
1.349	Peak	18.90	10.67	29.57	56.00	-26.43
1.805	Peak	15.47	10.97	26.44	56.00	-29.56

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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 and the e.i.r.p. shall not exceed 4 W.

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.

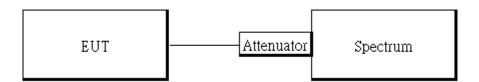
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.

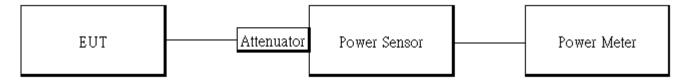
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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.
- Repeat above procedures until all test default channel measured was complete.

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	63.20	1.99	2.56	3.00
BLE 2M	32.80	4.84	4.88	5.00

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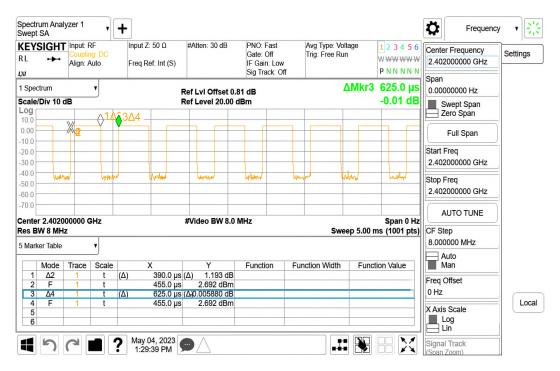
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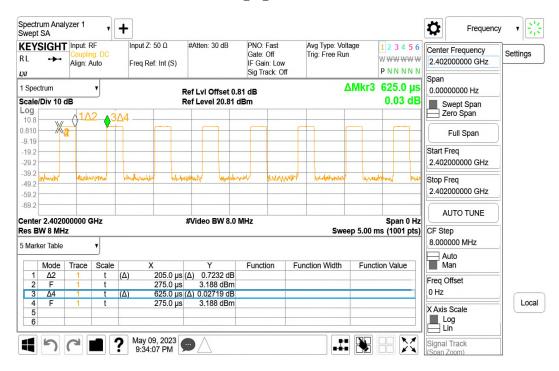
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BLE_1M_LowCH00-2402



BLE 2M LowCH00-2402



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8.5 **Output Power:**

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	4.03	30
Mid	2442	default	3.98	30
High	2480	default	4.08	30
СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	3.73	30
Mid	2442	default	3.71	30
High	2480	default	3.75	30

^{*}Note:

BLE 2M mode:

СН	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	4.24	30
Mid	2442	default	4.18	30
High	2480	default	4.30	30
СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
CH Low				•
	(MHz)	set	(dBm)	(dBm)

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^{1.}Measured by power meter, cable loss 0.81 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

^{1.}Measured by power meter, cable loss 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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8.5.2 **EIRP**

EIRP BLE 1M mode

СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
Low	2402	default	3.73	4.90	8.63	4W=	36	dBm
Mid	2442	default	3.71	4.90	8.61	4W=	36	dBm
High	2480	default	3.75	4.90	8.65	4W=	36	dBm

^{*} Note: EIRP = Average Power + Gain

EIRP BLE 2M mode

СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit	
Low	2402	default	3.55	4.90	8.45	4W=	36	dBm
Mid	2442	default	3.53	4.90	8.43	4W=	36	dBm
High	2480	default	3.56	4.90	8.46	4W=	36	dBm

^{*} Note: EIRP = Average Power + Gain

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RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

9.1 **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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

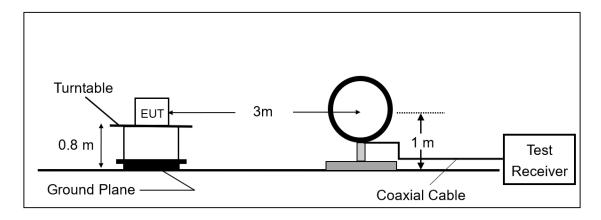
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

9.2 **Test Setup**

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



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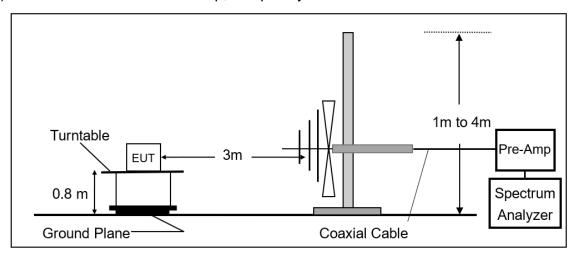
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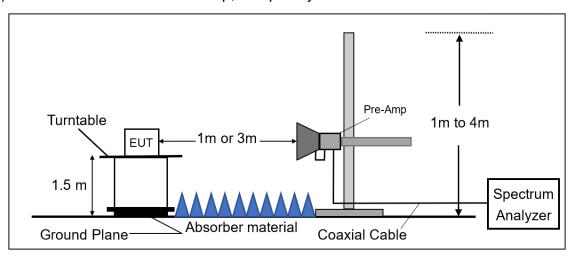


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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



9.3 **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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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.

9.4 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 μV) + Factor(dB)

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

9.5 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) & RSS-GEN §6.13.2 was not reported.

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9.6 Measurement Result:

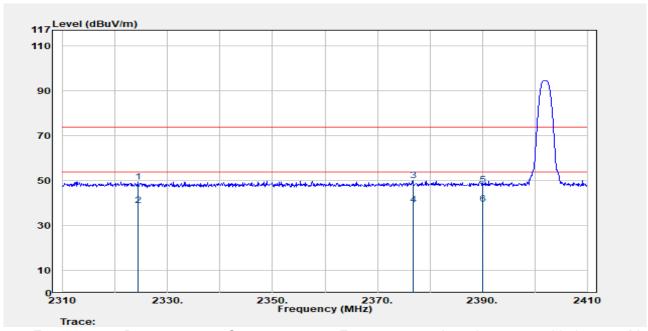
9.6.1 Radiated Band Edge Measurement Result

Report Number Test Site :SAC 2 :TERF2304001053ER

Operation Mode :BLE 1M Test Date :2023-06-09 Test Frequency Temp./Humi. :24.3°C/58% :2402 MHz

Test Mode Antenna Pol. :Vertical :Bandedge

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2324.300	Peak	53.95	-4.35	49.60	74.00	-24.40
2324.300	Average	43.43	-4.35	39.08	54.00	-14.92
2376.800	Peak	54.20	-4.24	49.97	74.00	-24.03
2376.800	Average	43.42	-4.24	39.18	54.00	-14.82
2390.000	Peak	52.22	-4.17	48.05	74.00	-25.95
2390.000	Average	43.78	-4.17	39.61	54.00	-14.39

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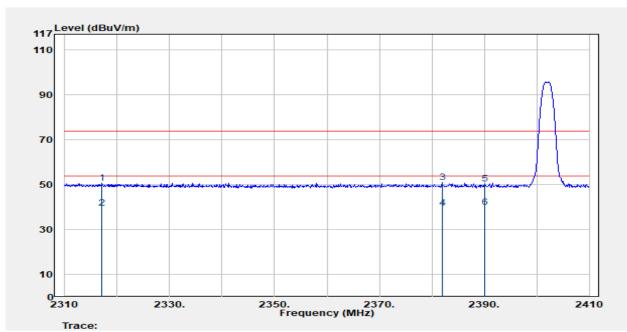
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode:BLE 1MTest Date:2023-06-09Test Frequency:2402 MHzTemp./Humi.:24.3℃/58%Test Mode:BandedgeAntenna Pol.:HorizontalEUT Pol:H PlaneEngineer:Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2317.100	Peak	55.17	-4.34	50.82	74.00	-23.18
2317.100	Average	43.91	-4.34	39.57	54.00	-14.43
2382.000	Peak	55.30	-4.21	51.09	74.00	-22.91
2382.000	Average	43.72	-4.21	39.51	54.00	-14.49
2390.000	Peak	54.56	-4.17	50.39	74.00	-23.61
2390.000	Average	43.98	-4.17	39.81	54.00	-14.19

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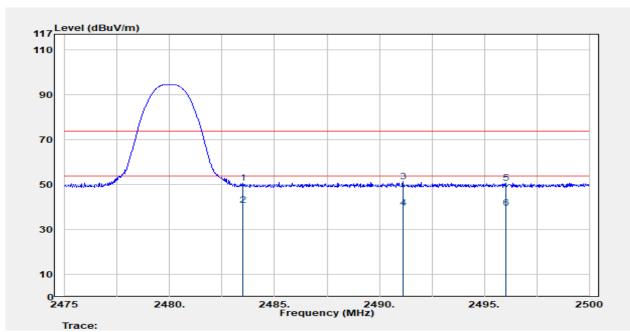
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Report Number **Test Site** :SAC 2 :TERF2304001053ER

Operation Mode :BLE 1M **Test Date** :2023-06-09 Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol Engineer :H Plane :Ricky Chen



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	Peak	54.92	-4.26	50.66	74.00	-23.34
2483.500	Average	45.18	-4.26	40.92	54.00	-13.08
2491.125	Peak	55.63	-4.20	51.43	74.00	-22.57
2491.125	Average	43.93	-4.20	39.73	54.00	-14.27
2496.025	Peak	54.94	-4.16	50.78	74.00	-23.22
2496.025	Average	43.89	-4.16	39.73	54.00	-14.27

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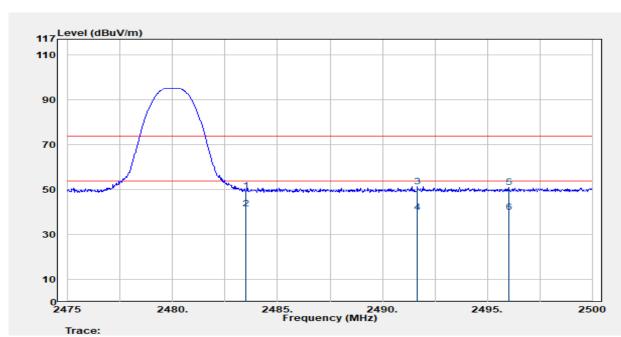
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Report Number **Test Site** :SAC 2 :TERF2304001053ER

Operation Mode :BLE 1M **Test Date** :2023-06-09 Test Frequency :2480 MHz Temp./Humi. :24.3°C/58% Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** Engineer :H Plane :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500	Peak	53.87	-4.26	49.61	74.00	-24.39
2483.500	Average	45.66	-4.26	41.40	54.00	-12.60
2491.675	Peak	55.68	-4.19	51.48	74.00	-22.52
2491.675	Average	44.02	-4.19	39.83	54.00	-14.17
2496.025	Peak	55.05	-4.16	50.89	74.00	-23.11
2496.025	Average	44.12	-4.16	39.96	54.00	-14.04

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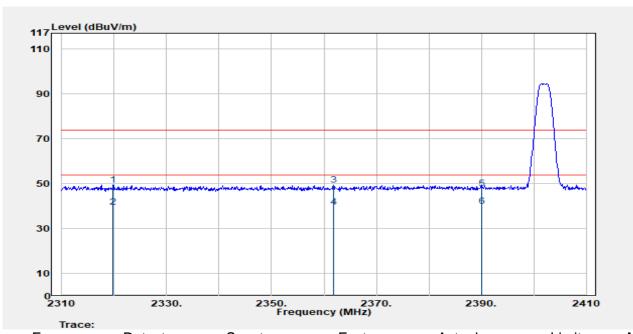
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Report Number **Test Site** :SAC 2 :TERF2304001053ER

Operation Mode :BLE 2M **Test Date** :2023-06-09 Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane :Ricky Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2319.800	Peak	53.78	-4.35	49.44	74.00	-24.56
2319.800	Average	43.90	-4.35	39.55	54.00	-14.45
2361.800	Peak	53.74	-4.32	49.42	74.00	-24.58
2361.800	Average	44.02	-4.32	39.70	54.00	-14.30
2390.000	Peak	52.05	-4.17	47.89	74.00	-26.11
2390.000	Average	43.99	-4.17	39.82	54.00	-14.18

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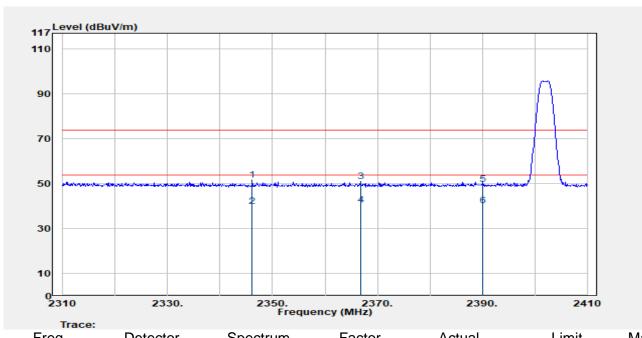
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Page: 34 of 52

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2346.100	Peak	56.04	-4.38	51.66	74.00	-22.34
2346.100	Average	44.42	-4.38	40.04	54.00	-13.96
2366.800	Peak	55.44	-4.30	51.14	74.00	-22.86
2366.800	Average	44.81	-4.30	40.51	54.00	-13.49
2390.000	Peak	53.90	-4.17	49.73	74.00	-24.27
2390.000	Average	44.28	-4.17	40.11	54.00	-13.89

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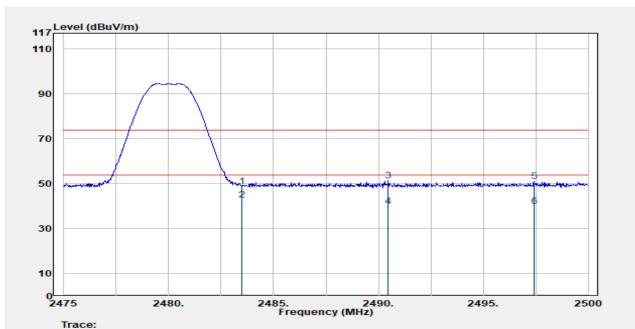
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Report Number **Test Site** :SAC 2 :TERF2304001053ER

Operation Mode :BLE 2M **Test Date** :2023-06-09 Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol Engineer :H Plane :Ricky Chen



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	Peak	53.23	-4.26	48.97	74.00	-25.03
2483.500	Average	47.09	-4.26	42.83	54.00	-11.17
2490.475	Peak	55.52	-4.20	51.31	74.00	-22.69
2490.475	Average	44.02	-4.20	39.82	54.00	-14.18
2497.425	Peak	55.10	-4.15	50.95	74.00	-23.05
2497.425	Average	44.18	-4.15	40.03	54.00	-13.97

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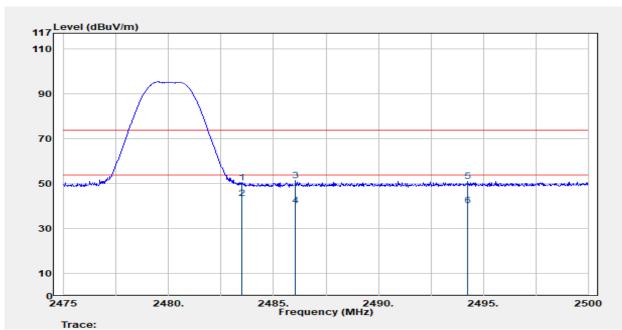
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :H Plane Engineer :Ricky Chen



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	Peak	54.67	-4.26	50.41	74.00	-23.59
2483.500	Average	47.78	-4.26	43.52	54.00	-10.48
2486.050	Peak	55.65	-4.24	51.41	74.00	-22.59
2486.050	Average	44.41	-4.24	40.17	54.00	-13.83
2494.275	Peak	55.21	-4.17	51.03	74.00	-22.97
2494.275	Average	44.32	-4.17	40.15	54.00	-13.85

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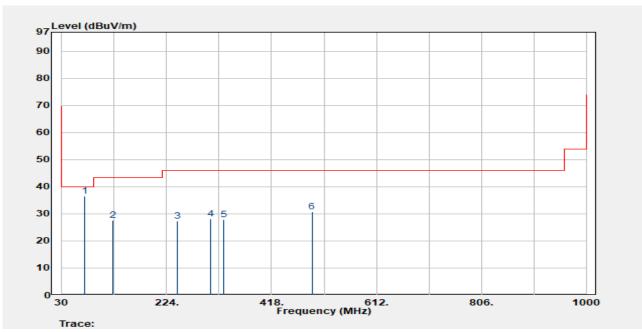
9.6.2 Radiated Spurious Emission

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
72.680	QP	51.79	-15.22	36.57	40.00	-3.43
125.060	Peak	42.14	-14.63	27.51	43.50	-15.99
243.400	Peak	41.17	-13.73	27.44	46.00	-18.56
304.510	Peak	40.49	-12.26	28.24	46.00	-17.76
329.730	Peak	39.17	-11.28	27.89	46.00	-18.11
492.690	Peak	38.18	-7.50	30.68	46.00	-15.32

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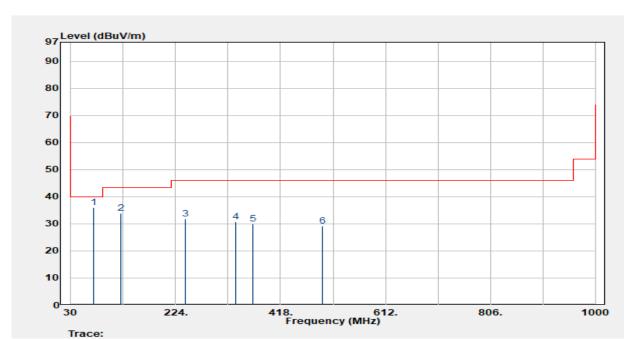
Antenna Pol. :Horizontal

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
72.680	Peak	51.25	-15.22	36.03	40.00	-3.97
123.120	Peak	48.82	-14.79	34.03	43.50	-9.47
241.460	Peak	45.69	-13.84	31.85	46.00	-14.15
335.550	Peak	41.68	-10.94	30.74	46.00	-15.26
366.590	Peak	40.51	-10.52	29.99	46.00	-16.01
494.630	Peak	36.67	-7.55	29.12	46.00	-16.88

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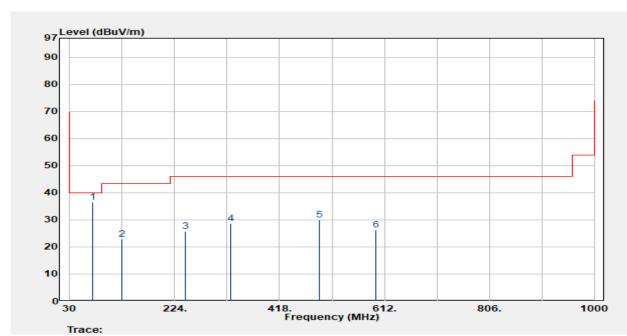
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Report Number Test Site :SAC 2 :TERF2304001053ER

Operation Mode :BLE 2M Test Date :2023-06-09 Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
72.680	QP	51.76	-15.22	36.54	40.00	-3.46
126.030	Peak	37.39	-14.54	22.85	43.50	-20.65
244.370	Peak	39.44	-13.67	25.77	46.00	-20.23
327.790	Peak	40.09	-11.31	28.77	46.00	-17.23
491.720	Peak	37.47	-7.47	30.00	46.00	-16.00
596.480	Peak	31.13	-4.89	26.24	46.00	-19.76

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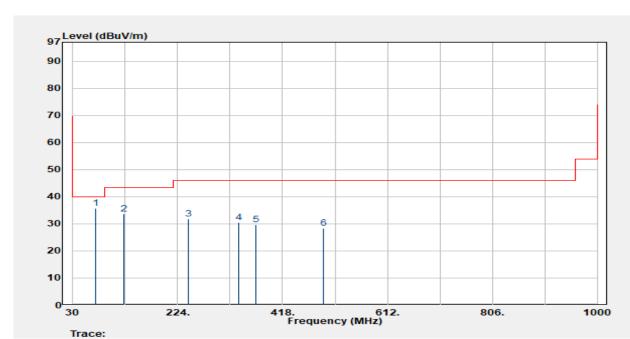
Page: 40 of 52

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
72.680	Peak	50.92	-15.22	35.70	40.00	-4.30
124.090	Peak	48.56	-14.92	33.63	43.50	-9.87
244.370	Peak	45.53	-13.67	31.86	46.00	-14.14
336.520	Peak	41.45	-10.97	30.48	46.00	-15.52
368.530	Peak	39.95	-10.37	29.58	46.00	-16.42
493.660	Peak	35.88	-7.53	28.35	46.00	-17.65

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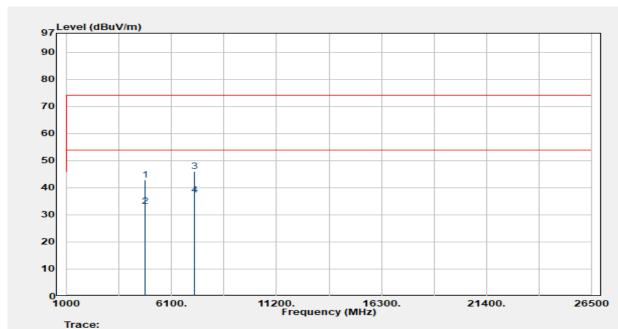
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Report Number Test Site :SAC 2 :TERF2304001053ER

Operation Mode :BLE 1M Test Date :2023-06-09 Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane :Ricky Chen 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	Peak	40.86	2.10	42.96	74.00	-31.04
4804.000	Average	30.91	2.10	33.01	54.00	-20.99
7206.000	Peak	38.32	7.56	45.88	74.00	-28.12
7206.000	Average	29.86	7.56	37.42	54.00	-16.58

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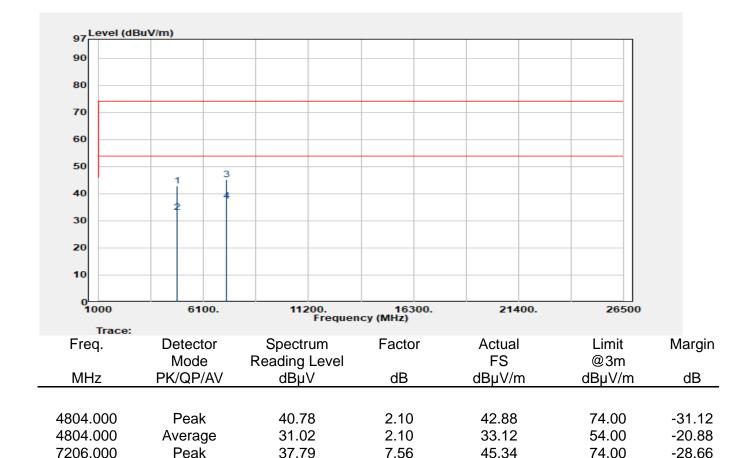
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



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7.56

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7206.000

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Average

37.39

54.00

-16.61



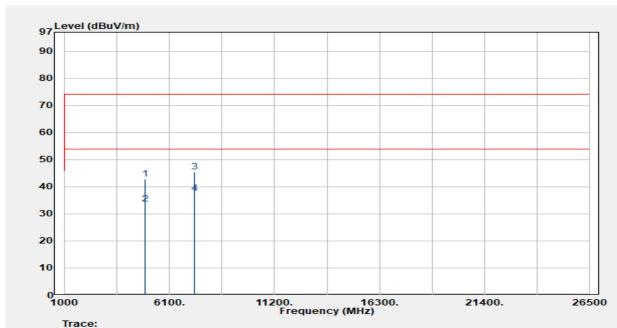
Page: 43 of 52

Report Number Test Site :SAC 2 :TERF2304001053ER

Operation Mode :BLE 1M Test Date :2023-06-09 Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane :Ricky Chen 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	Peak	40.05	2.67	42.72	74.00	-31.28
4884.000	Average	30.86	2.67	33.53	54.00	-20.47
7326.000	Peak	37.87	7.71	45.58	74.00	-28.42
7326.000	Average	29.87	7.71	37.58	54.00	-16.42

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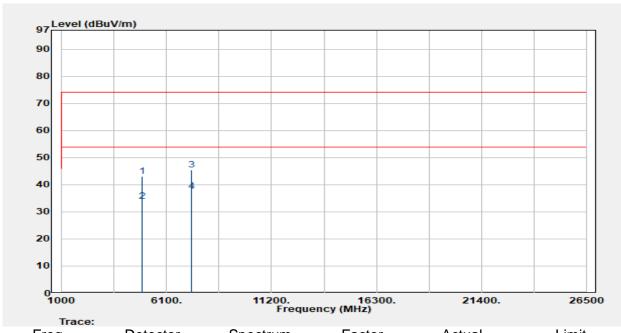
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4884.000	Peak	40.39	2.67	43.06	74.00	-30.94
4884.000 7326.000 7326.000	Average Peak Average	31.29 37.83 29.75	2.67 7.71 7.71	33.96 45.54 37.46	54.00 74.00 54.00	-20.04 -28.46 -16.54

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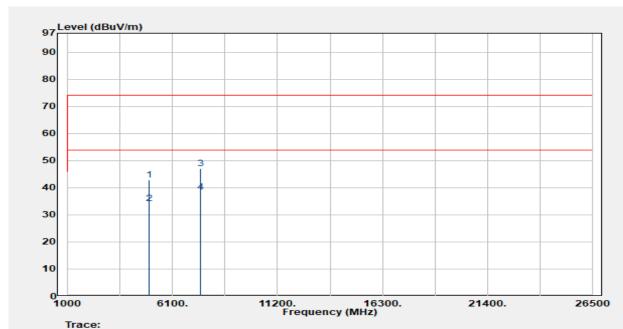
Page: 45 of 52

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	<u>dB</u>
4960.000	Peak	39.96	2.80	42.76	74.00	-31.24
4960.000	Average	31.38	2.80	34.18	54.00	-19.82
7440.000	Peak	39.17	7.97	47.14	74.00	-26.86
7440.000	Average	30.39	7.97	38.36	54.00	-15.64

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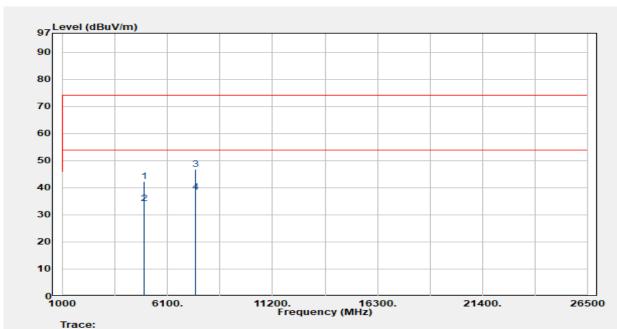
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 1M Test Date :2023-06-09
Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		•	•	
4960.000	Peak	39.40	2.80	42.20	74.00	-31.80
4960.000	Average	31.30	2.80	34.10	54.00	-19.90
7440.000	Peak	38.82	7.97	46.80	74.00	-27.20
7440.000	Average	30.30	7.97	38.27	54.00	-15.73

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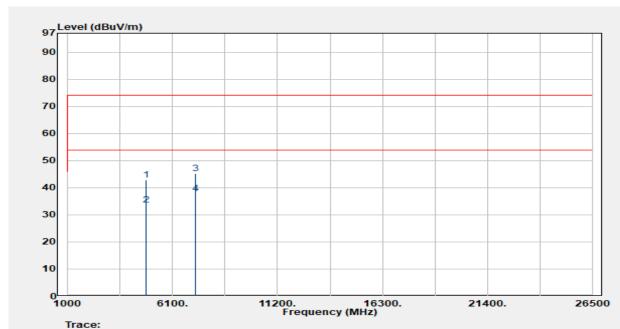
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



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	Peak	40.72	2.10	42.81	74.00	-31.19
4804.000	Average	31.67	2.10	33.77	54.00	-20.23
7206.000	Peak	37.77	7.56	45.33	74.00	-28.67
7206.000	Average	30.17	7.56	37.73	54.00	-16.27

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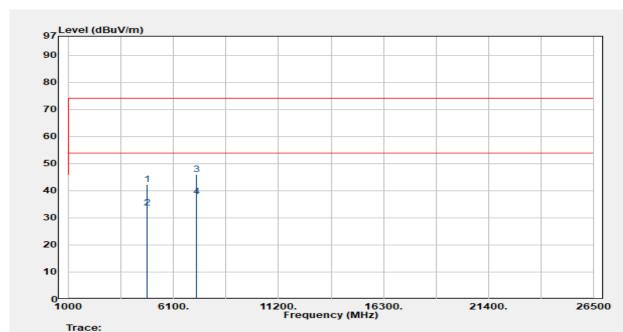
Antenna Pol. :Horizontal

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2402 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx

EUT Pol :H Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		•	•	
4804.000	Peak	40.24	2.10	42.34	74.00	-31.66
4804.000	Average	31.63	2.10	33.73	54.00	-20.27
7206.000	Peak	38.55	7.56	46.11	74.00	-27.89
7206.000	Average	30.23	7.56	37.79	54.00	-16.21

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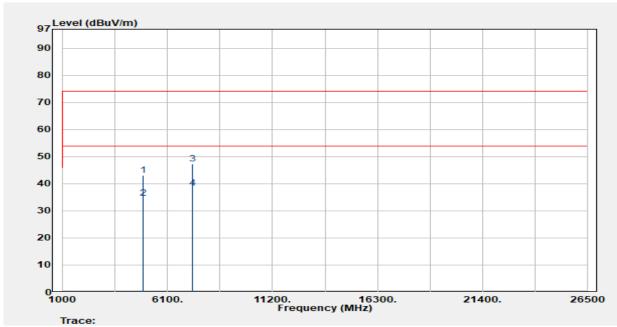
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Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4884.000	Peak	40.44	2.67	43.12	74.00	-30.88
4884.000	Average	32.10	2.67	34.77	54.00	-19.23
7326.000	Peak	39.54	7.71	47.25	74.00	-26.75
7326.000	Average	30.55	7.71	38.26	54.00	-15.74

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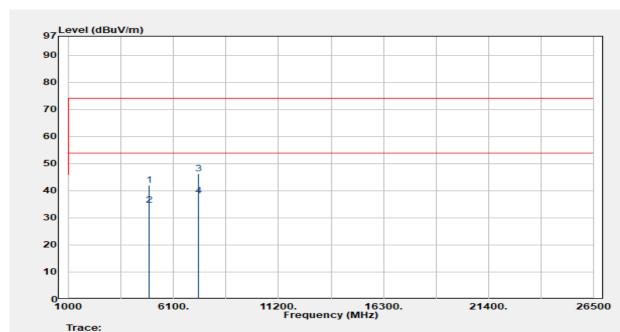
Antenna Pol. :Horizontal

Report Number Test Site :SAC 2 :TERF2304001053ER

Operation Mode :BLE 2M Test Date :2023-06-09 Test Frequency :2442 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx

EUT Pol :H Plane :Ricky Chen 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	Peak	39.51	2.67	42.18	74.00	-31.82
4884.000	Average	31.96	2.67	34.63	54.00	-19.37
7326.000	Peak	38.55	7.71	46.26	74.00	-27.74
7326.000	Average	30.46	7.71	38.17	54.00	-15.83

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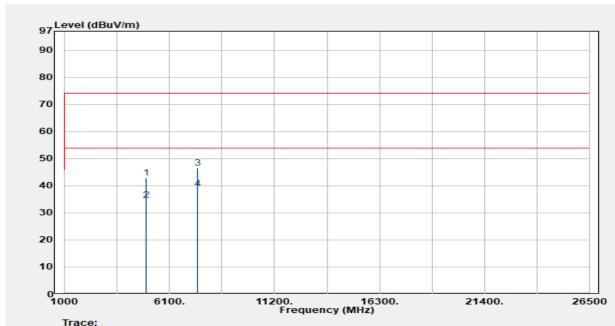
Page: 51 of 52

Report Number :TERF2304001053ER Test Site :SAC 2

Operation Mode :BLE 2M Test Date :2023-06-09
Test Frequency :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Ricky Chen



Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.000	Peak	40.16	2.80	42.96	74.00	-31.04
4960.000	Average	31.87	2.80	34.67	54.00	-19.33
7440.000	Peak	38.56	7.97	46.53	74.00	-27.47
7440.000	Average	30.89	7.97	38.86	54.00	-15.14

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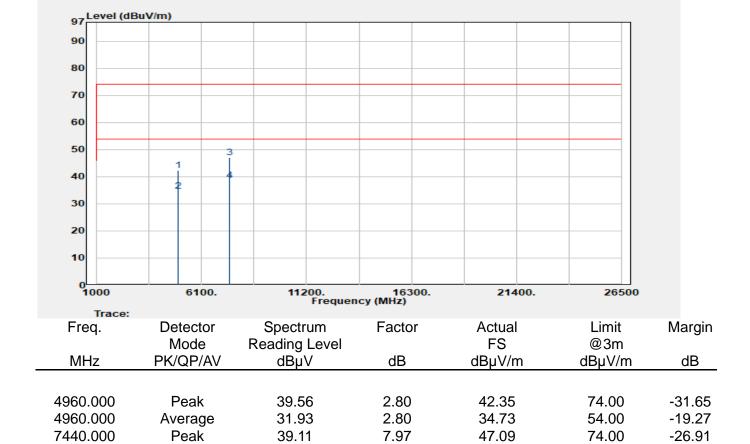
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Test Site Report Number :SAC 2 :TERF2304001053ER

Operation Mode :BLE 2M Test Date :2023-06-09 **Test Frequency** :2480 MHz Temp./Humi. :24.3°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane :Ricky Chen Engineer



~ End of Report ~

7.97

38.67

54.00

-15.33

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30.70

Average

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