

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: LEDGER SAS
106 Rue du Temple, 75003 Paris, France

Manufacturer: LEDGER SAS
106 Rue du Temple, 75003 Paris, France

Product Name: LEDGER STAX

Brand Name: [L] or [LEDGER]

Model No.: 2103

Model Difference: N/A

Report Number: TERF2407001903E2

FCC ID 2ASAL-2103

Date of EUT Received: N/A, the test results are fully leveraged, for more details please refer to section 3 in this report.

Date of Test: N/A, the test results are fully leveraged, for more details please refer to section 3 in this report.

Issue Date: July 30, 2024

Aken Huang

Approved By

Aken Huang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2407001903E2	00	CIIPC for update applicant address, Brand name, HW/SW version and change NFC antenna	July 30, 2024	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of trademarks is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is an addendum test report reference to the test report *TERF2212002634E2*.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	LEDGER STAX
Brand Name:	[L] or [LEDGER]
Model No.:	2103
Model Difference:	N/A
Hardware Version:	PVT
Firmware Version:	MCU 5.27.0 + SE 1.5.0-rc1
EUT Series No.:	0UF444G00F
Power Supply:	3.8Vdc
Test Software (Name/Version)	STM32CubeMonitor-RF / V2.10.0

1.2 RF Specification

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

1.3 Antenna Designation

Antenna Type	Freq.	Peak Antenna Gain (dBi)
Slot Antenna	2.4GHz	-3.71

Note:

1. 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 identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

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1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Radiated Emissions

The EUT is 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.

2.4 Measurement Results Explanation Example

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

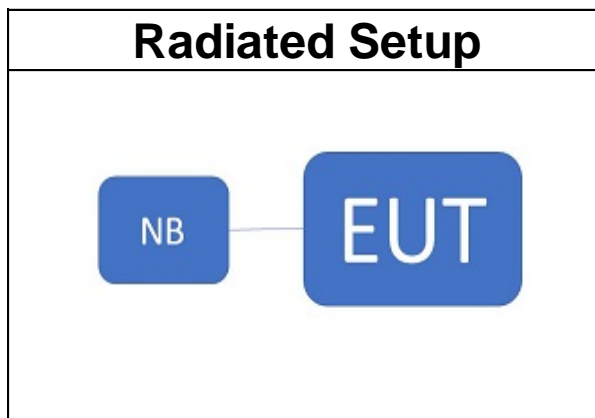
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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2.5 Test Configuration



2.6 Control Unit(s)

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	P0000195	N/A	N/A
USB Cable	Interplus Industry	ADV-7570214	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2407001913E2.

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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.

TRANSMIT 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
TRANSMIT 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

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
Low Pass Filter	EWT	EWT-56-0019	RF173	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G008	RF205	11/15/2023	11/14/2024
High Pass Filter	Titan Microwave	T04H86002600060S 01	210619-2-8	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

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

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

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

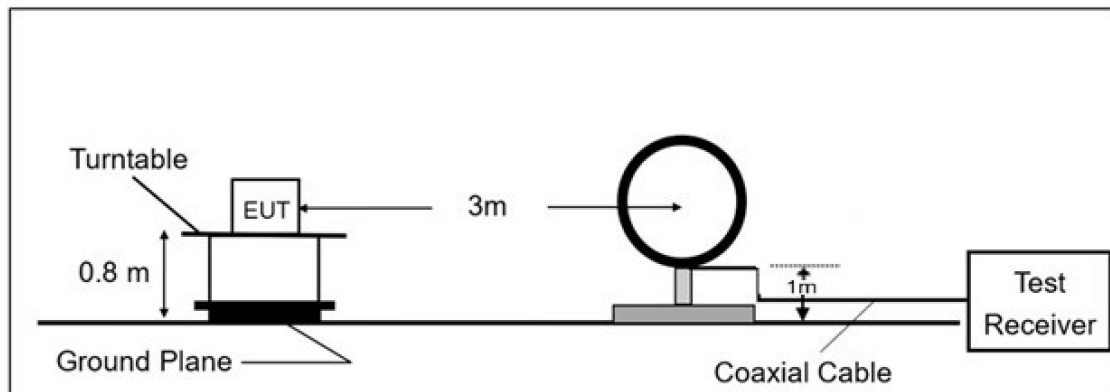
Note: The lower limit shall apply at the transition frequencies.

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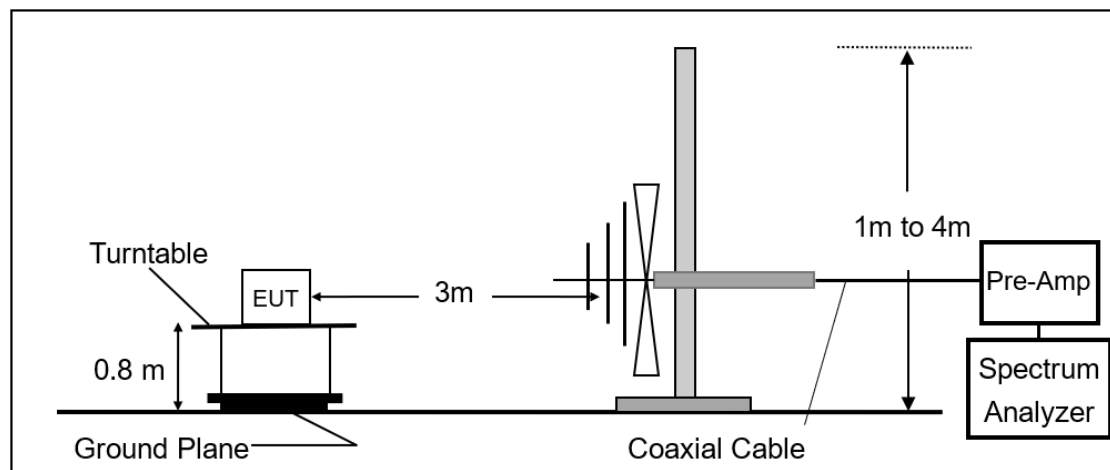
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7.1 Test Setup

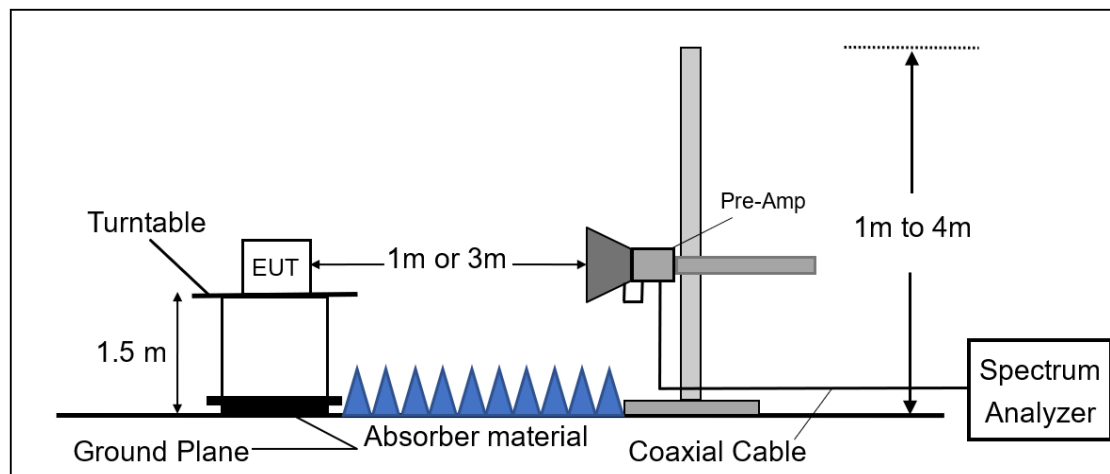
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.2 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.
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.

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7.3 Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

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7.4.1 Radiated Band Edge Measurement Result

Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2402 MHz

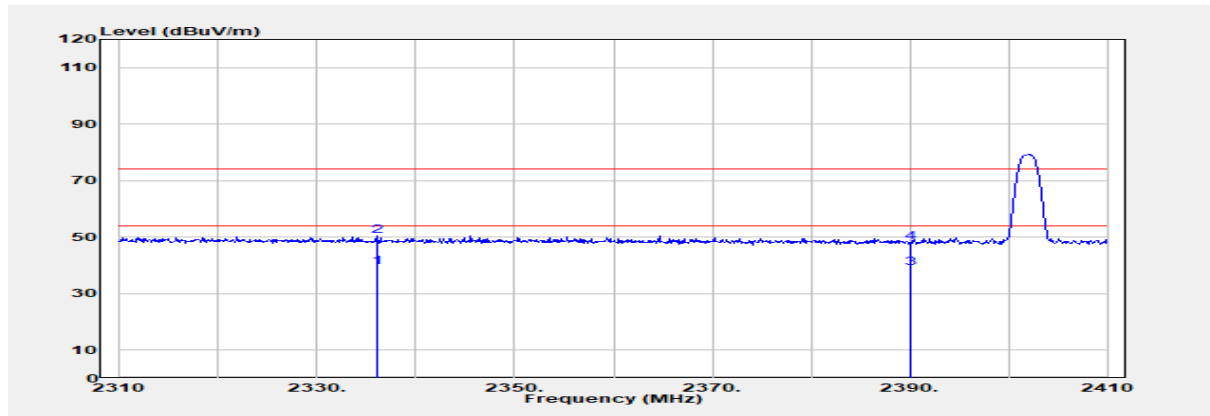
Temp./Humi. :22.4℃/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2336.000	Average	43.14	-3.84	39.30	54.00	-14.70
2336.000	Peak	54.15	-3.84	50.31	74.00	-23.69
2390.000	Average	43.12	-4.25	38.87	54.00	-15.13
2390.000	Peak	52.30	-4.25	48.05	74.00	-25.95

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2402 MHz

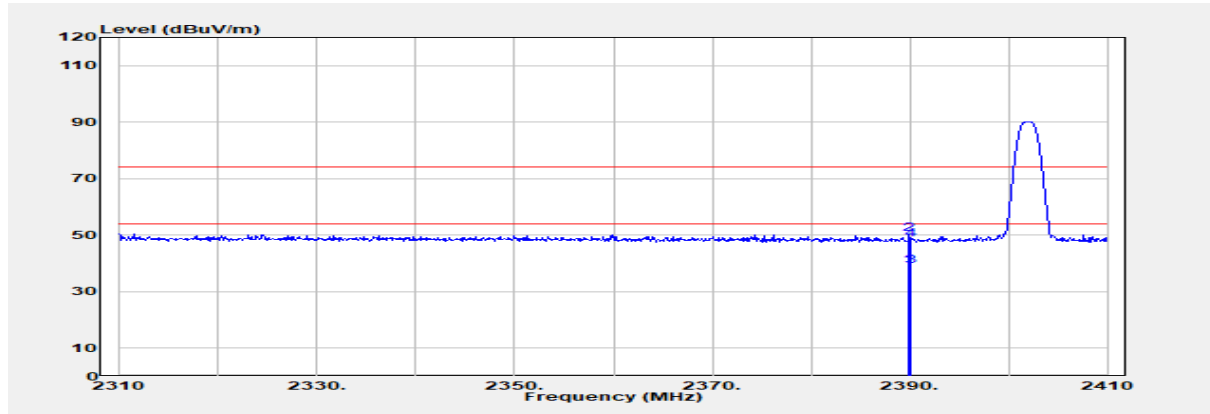
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2389.900	Average	43.26	-4.25	39.01	54.00	-14.99
2389.900	Peak	54.55	-4.25	50.31	74.00	-23.69
2390.000	Average	43.11	-4.25	38.87	54.00	-15.13
2390.000	Peak	52.78	-4.25	48.54	74.00	-25.46

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2480 MHz

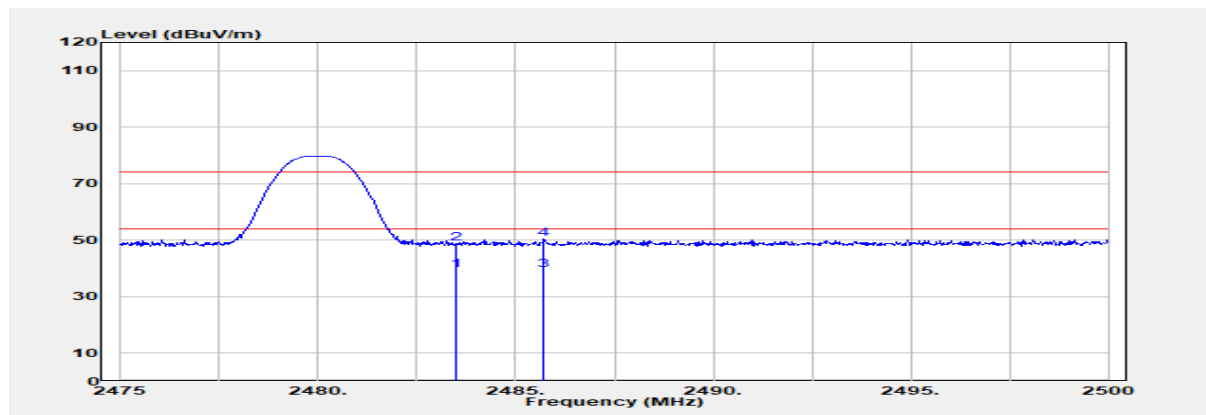
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.05	-3.82	39.23	54.00	-14.77
2483.500	Peak	52.62	-3.82	48.80	74.00	-25.20
2485.700	Average	43.09	-3.80	39.30	54.00	-14.70
2485.700	Peak	54.34	-3.80	50.54	74.00	-23.46

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2480 MHz

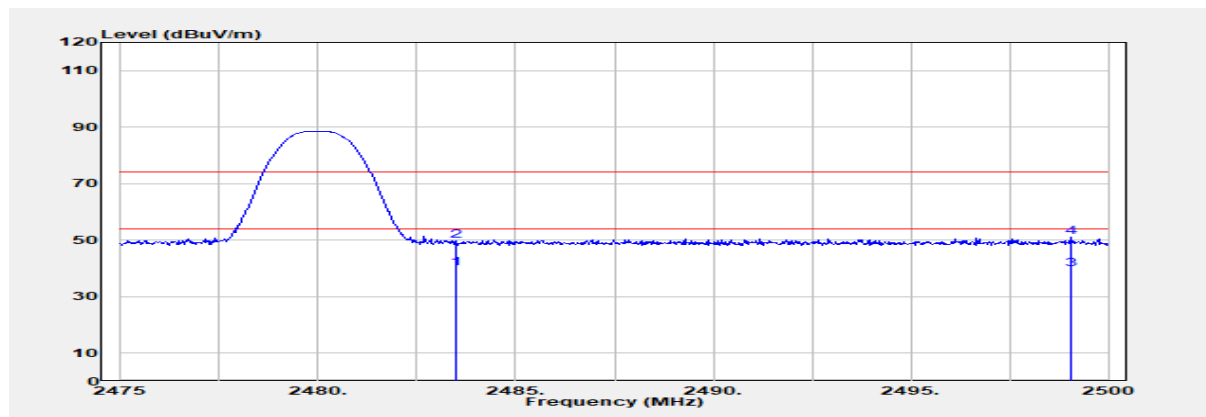
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.75	-3.82	39.93	54.00	-14.07
2483.500	Peak	53.65	-3.82	49.83	74.00	-24.17
2499.075	Average	43.21	-3.66	39.55	54.00	-14.45
2499.075	Peak	54.65	-3.66	50.99	74.00	-23.01

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2402 MHz

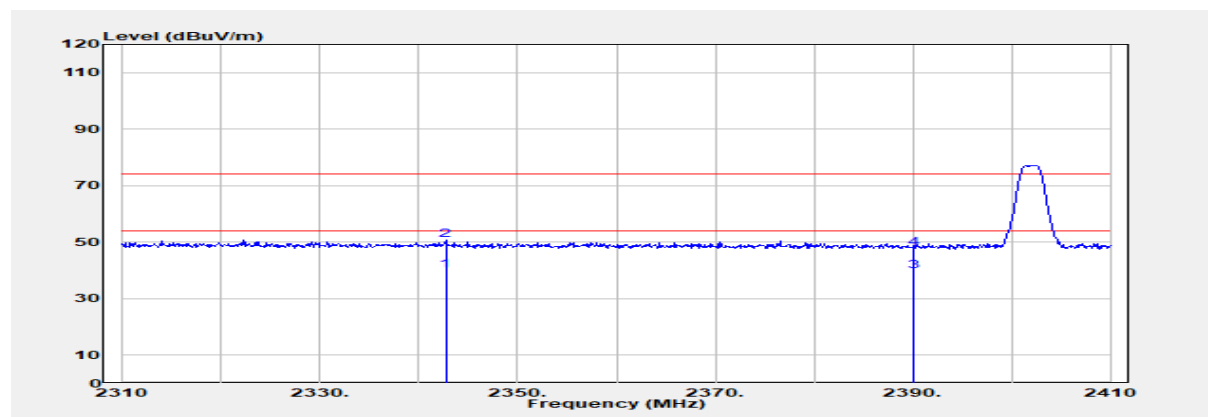
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2342.700	Average	43.77	-3.88	39.89	54.00	-14.11
2342.700	Peak	54.67	-3.88	50.79	74.00	-23.21
2390.000	Average	43.91	-4.25	39.66	54.00	-14.34
2390.000	Peak	51.91	-4.25	47.66	74.00	-26.34

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2402 MHz

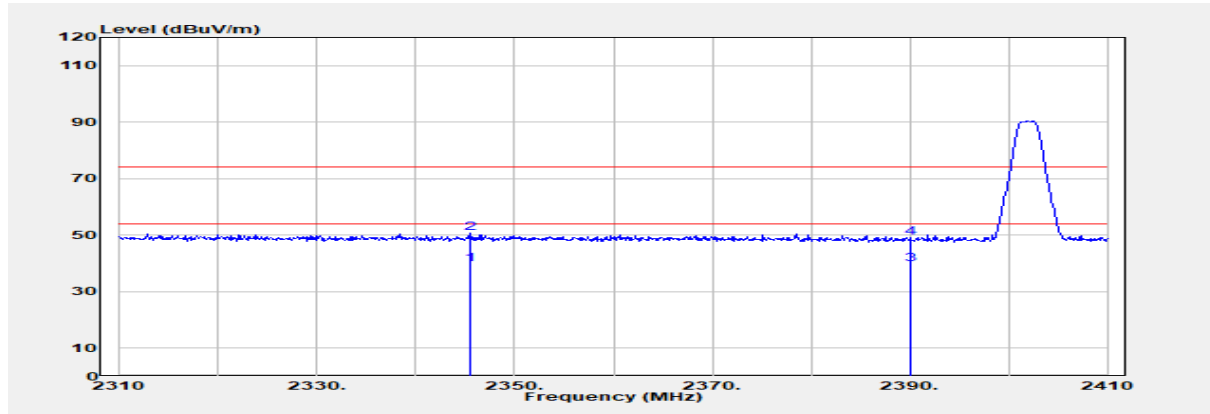
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2345.400	Average	43.69	-3.89	39.80	54.00	-14.20
2345.400	Peak	54.72	-3.89	50.83	74.00	-23.17
2390.000	Average	43.81	-4.25	39.56	54.00	-14.44
2390.000	Peak	53.46	-4.25	49.21	74.00	-24.79

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2480 MHz

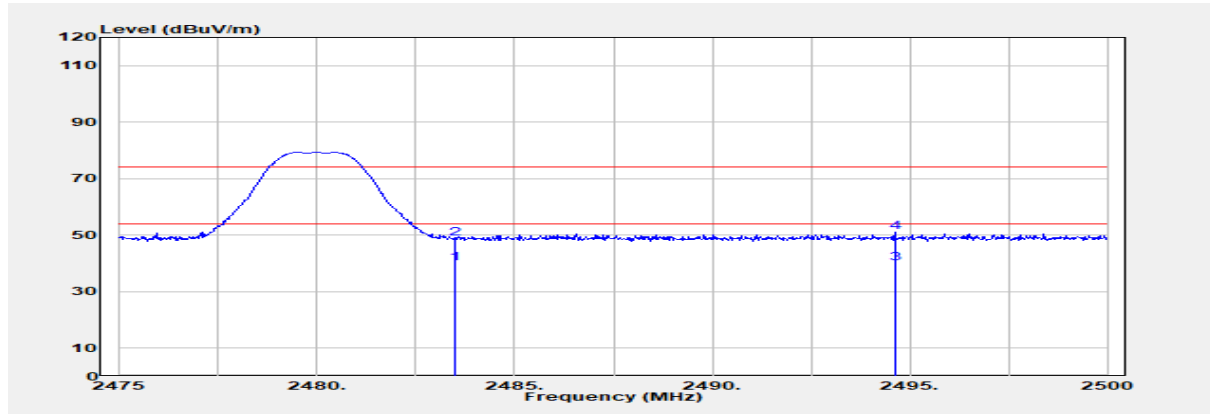
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.78	-3.82	39.96	54.00	-14.04
2483.500	Peak	52.73	-3.82	48.91	74.00	-25.09
2494.625	Average	43.82	-3.71	40.12	54.00	-13.88
2494.625	Peak	54.63	-3.71	50.92	74.00	-23.08

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2480 MHz

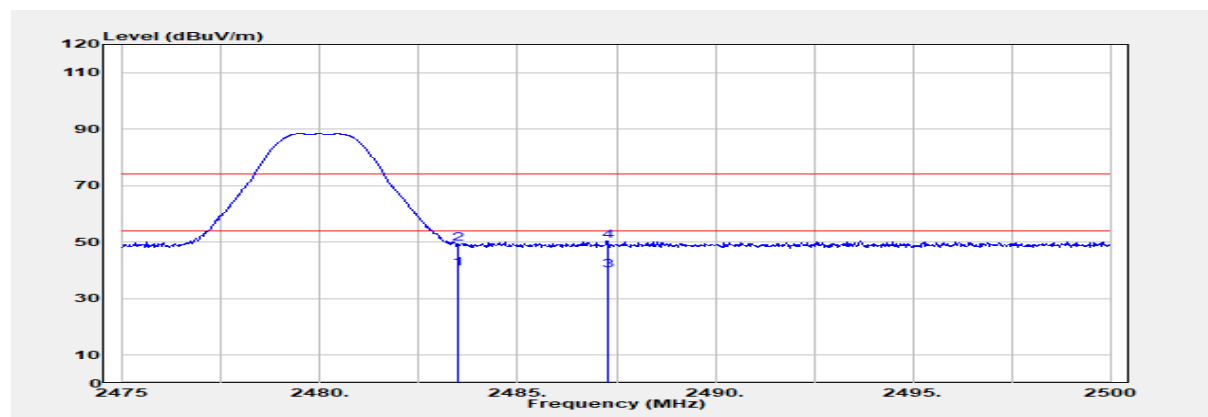
Temp./Humi. :22.4°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	44.40	-3.82	40.58	54.00	-13.42
2483.500	Peak	53.10	-3.82	49.28	74.00	-24.72
2487.275	Average	43.80	-3.78	40.02	54.00	-13.98
2487.275	Peak	54.28	-3.78	50.50	74.00	-23.50

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7.4.2 Radiated Spurious Emission

Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2442 MHz

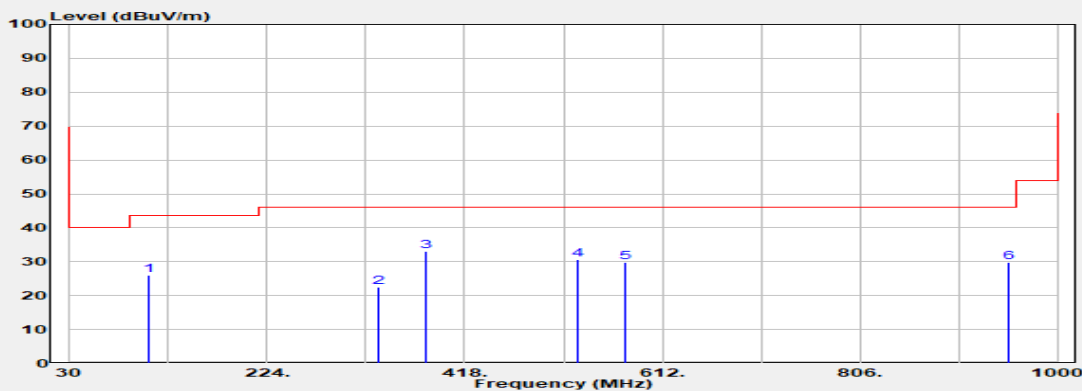
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
107.600	Peak	45.68	-19.60	26.08	43.50	-17.42
332.640	Peak	36.11	-13.66	22.44	46.00	-23.56
379.200	Peak	45.60	-12.61	32.99	46.00	-13.01
528.580	Peak	39.51	-8.89	30.63	46.00	-15.37
575.140	Peak	37.56	-7.75	29.81	46.00	-16.19
952.470	Peak	31.05	-1.22	29.83	46.00	-16.17

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2442 MHz

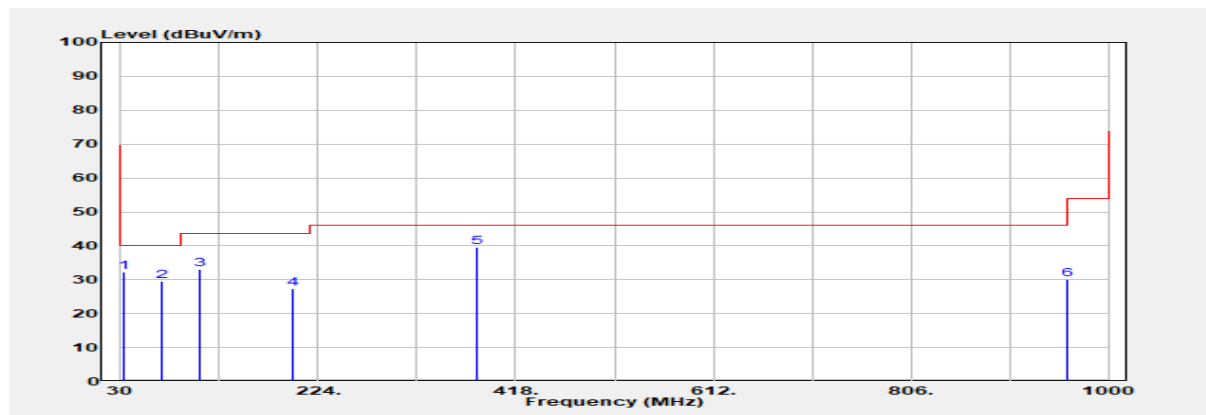
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
33.880	Peak	49.68	-17.37	32.31	40.00	-7.69
69.770	Peak	48.09	-18.47	29.62	40.00	-10.38
107.600	Peak	52.72	-19.60	33.11	43.50	-10.39
199.750	Peak	46.56	-19.09	27.47	43.50	-16.03
379.200	Peak	52.17	-12.61	39.56	46.00	-6.44
959.260	Peak	31.29	-1.21	30.08	46.00	-15.92

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2442 MHz

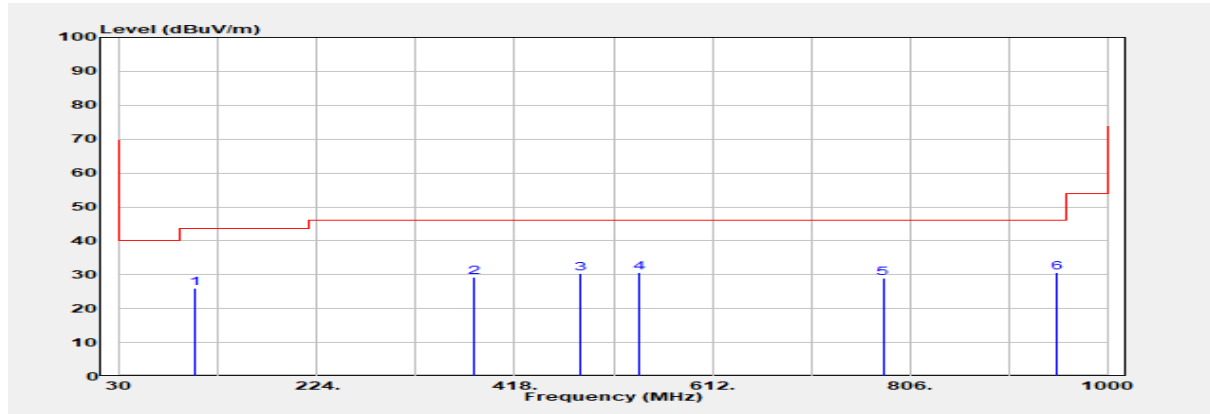
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
103.720	Peak	46.23	-20.10	26.13	43.50	-17.37
378.230	Peak	41.87	-12.62	29.25	46.00	-16.75
482.990	Peak	40.23	-9.77	30.46	46.00	-15.54
540.220	Peak	39.30	-8.67	30.62	46.00	-15.38
779.810	Peak	32.88	-3.76	29.12	46.00	-16.88
949.560	Peak	31.80	-1.17	30.63	46.00	-15.37

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2442 MHz

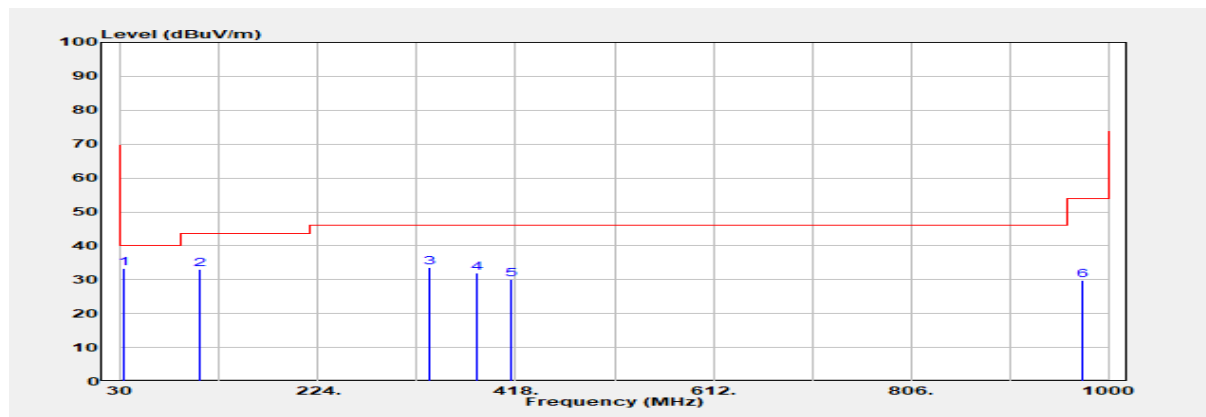
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
32.910	Peak	50.92	-17.56	33.36	40.00	-6.64
107.600	Peak	52.70	-19.60	33.10	43.50	-10.40
332.640	Peak	47.28	-13.66	33.61	46.00	-12.39
379.200	QP	44.60	-12.61	31.99	46.00	-14.01
414.120	Peak	41.58	-11.46	30.11	46.00	-15.89
974.780	Peak	30.90	-0.97	29.92	54.00	-24.08

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2402 MHz

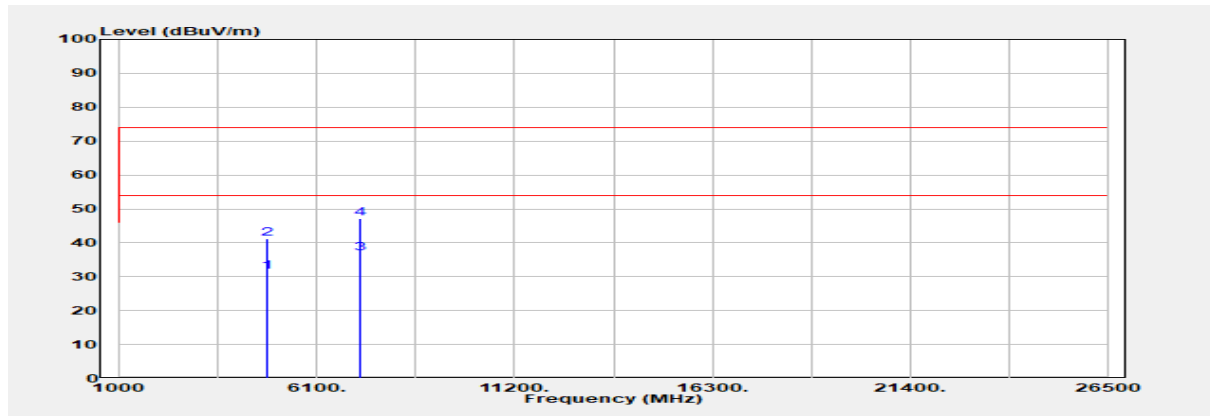
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4804.000	Average	30.68	0.66	31.34	54.00	-22.66
4804.000	Peak	40.55	0.66	41.21	74.00	-32.79
7206.000	Average	29.86	6.89	36.75	54.00	-17.25
7206.000	Peak	40.16	6.89	47.05	74.00	-26.95

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2402 MHz

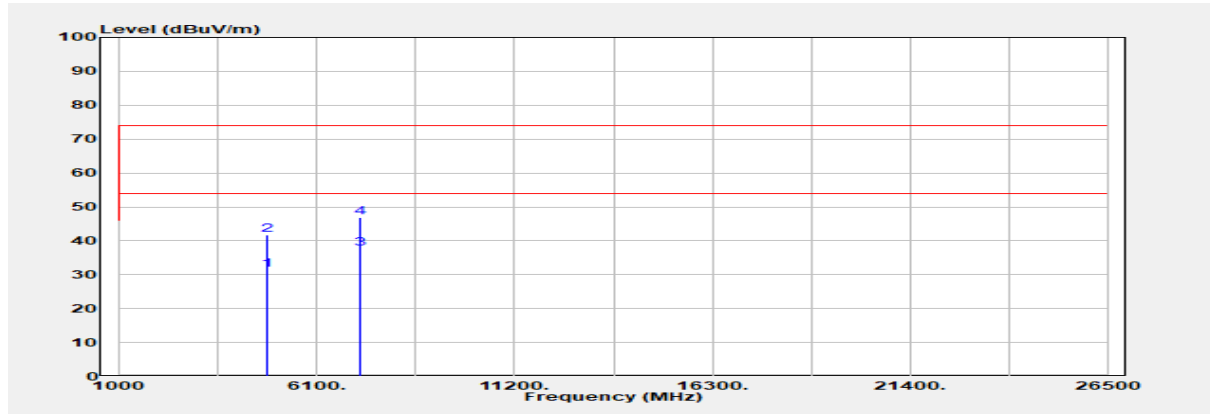
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4804.000	Average	30.86	0.66	31.51	54.00	-22.49
4804.000	Peak	40.99	0.66	41.65	74.00	-32.35
7206.000	Average	30.80	6.89	37.69	54.00	-16.31
7206.000	Peak	40.08	6.89	46.98	74.00	-27.02

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2442 MHz

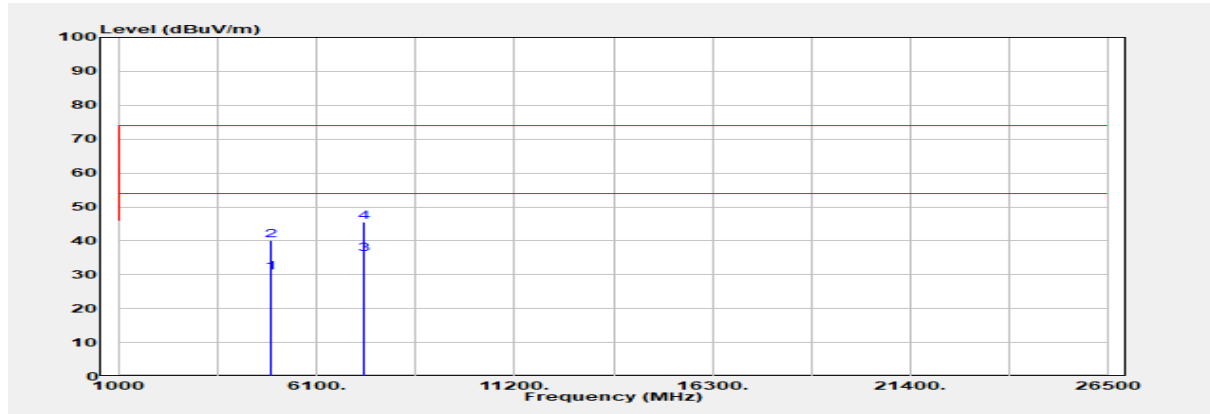
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	30.24	0.41	30.65	54.00	-23.35
4884.000	Peak	39.78	0.41	40.18	74.00	-33.82
7326.000	Average	29.71	6.38	36.09	54.00	-17.91
7326.000	Peak	39.20	6.38	45.58	74.00	-28.42

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2442 MHz

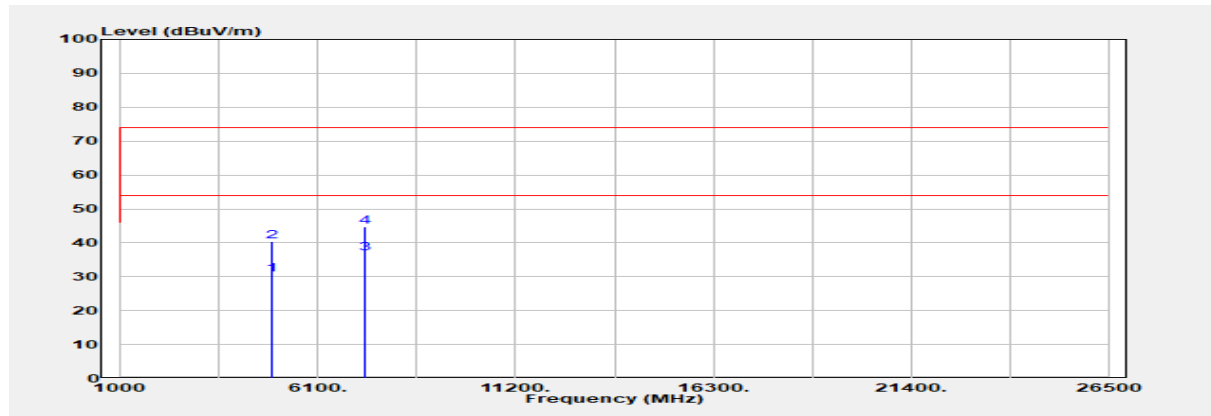
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	30.12	0.41	30.53	54.00	-23.47
4884.000	Peak	40.03	0.41	40.44	74.00	-33.56
7326.000	Average	30.54	6.38	36.92	54.00	-17.08
7326.000	Peak	38.25	6.38	44.62	74.00	-29.38

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2480 MHz

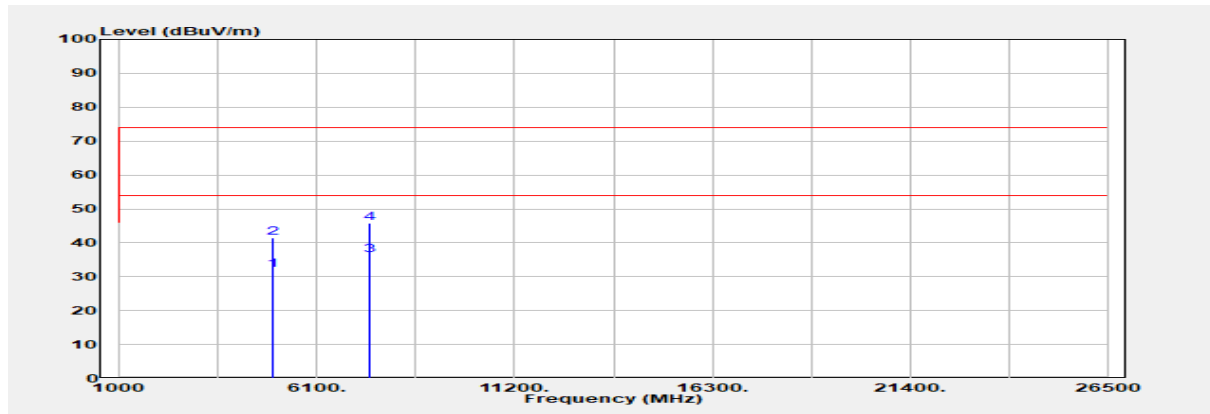
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	31.17	0.70	31.86	54.00	-22.14
4960.000	Peak	40.71	0.70	41.41	74.00	-32.59
7440.000	Average	29.70	6.52	36.22	54.00	-17.78
7440.000	Peak	39.18	6.52	45.70	74.00	-28.30

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-07-12

Test Frequency :2480 MHz

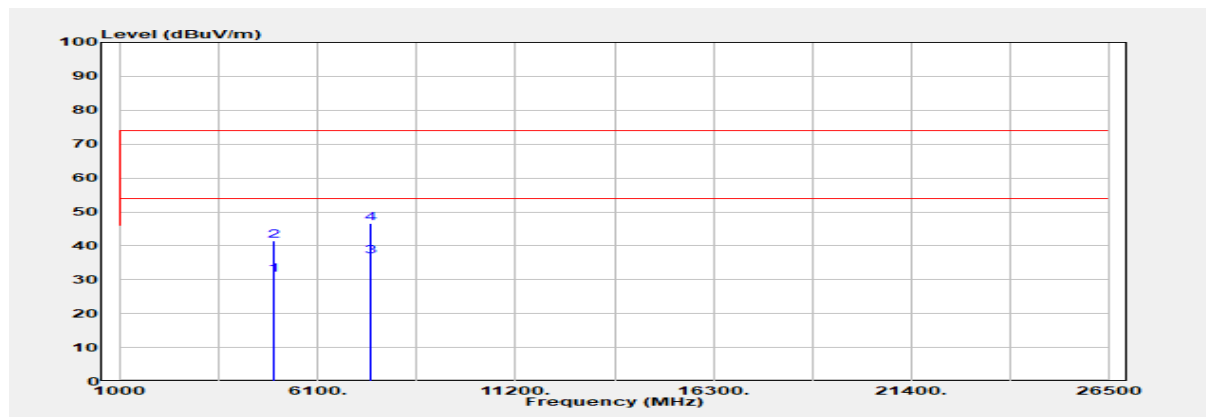
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4960.000	Average	30.83	0.70	31.53	54.00	-22.47
4960.000	Peak	40.68	0.70	41.38	74.00	-32.62
7440.000	Average	30.38	6.52	36.90	54.00	-17.10
7440.000	Peak	39.99	6.52	46.51	74.00	-27.49

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2402 MHz

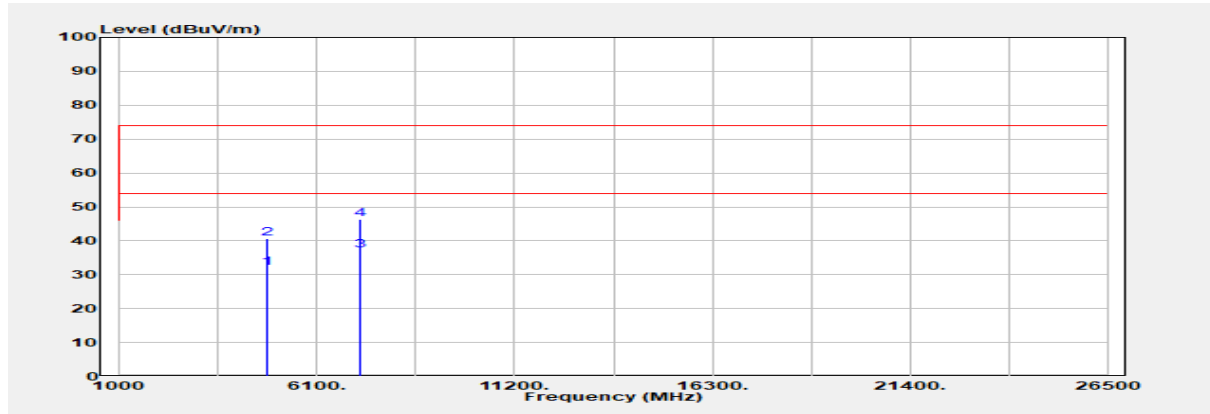
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4804.000	Average	31.24	0.66	31.90	54.00	-22.10
4804.000	Peak	39.98	0.66	40.64	74.00	-33.36
7206.000	Average	30.34	6.89	37.23	54.00	-16.77
7206.000	Peak	39.51	6.89	46.40	74.00	-27.60

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2402 MHz

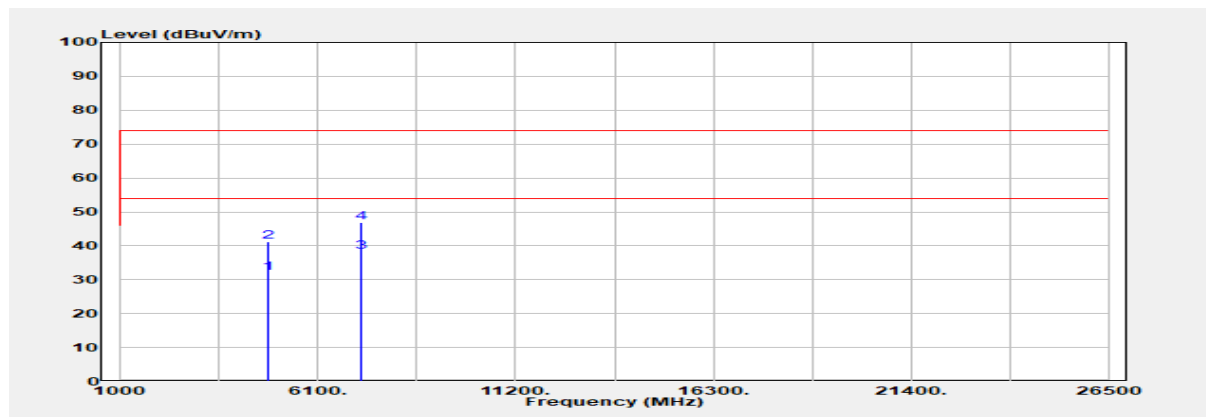
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Average	31.27	0.66	31.93	54.00	-22.07
4804.000	Peak	40.50	0.66	41.16	74.00	-32.84
7206.000	Average	31.19	6.89	38.08	54.00	-15.92
7206.000	Peak	40.01	6.89	46.91	74.00	-27.09

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2442 MHz

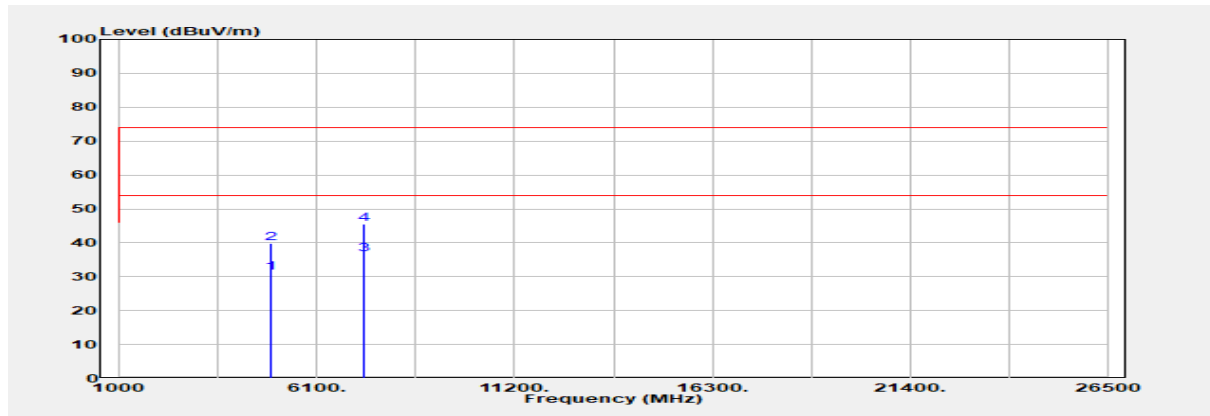
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4884.000	Average	30.83	0.41	31.24	54.00	-22.76
4884.000	Peak	39.56	0.41	39.97	74.00	-34.03
7326.000	Average	30.10	6.38	36.48	54.00	-17.52
7326.000	Peak	39.29	6.38	45.66	74.00	-28.34

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2442 MHz

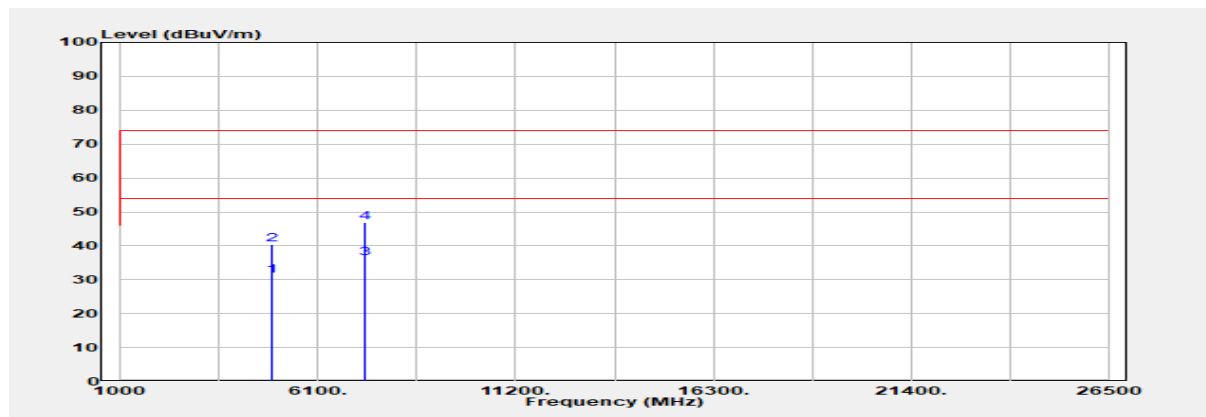
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Average	30.76	0.41	31.17	54.00	-22.83
4884.000	Peak	40.07	0.41	40.48	74.00	-33.52
7326.000	Average	30.06	6.38	36.44	54.00	-17.56
7326.000	Peak	40.41	6.38	46.79	74.00	-27.21

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2480 MHz

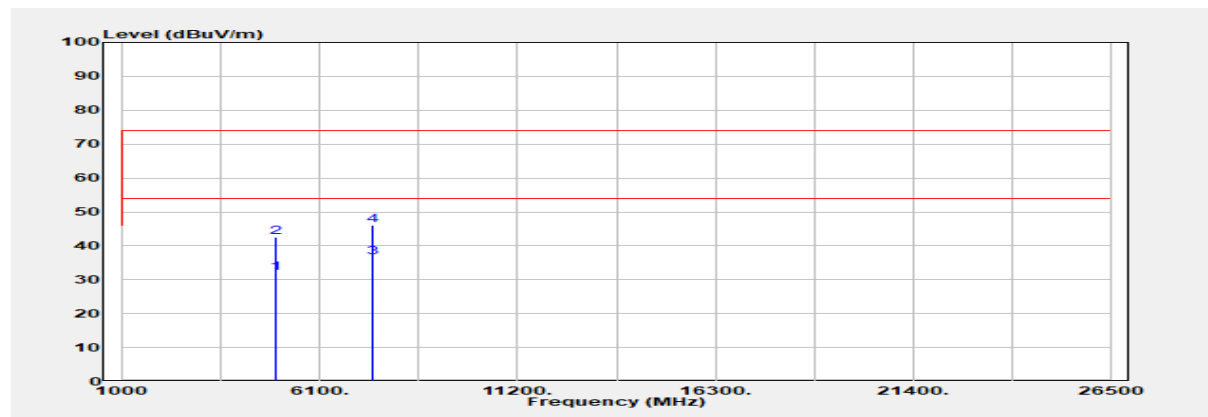
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @ 3m dBuV/m	Margin dB
4960.000	Average	31.25	0.70	31.95	54.00	-22.05
4960.000	Peak	41.83	0.70	42.52	74.00	-31.48
7440.000	Average	30.07	6.52	36.59	54.00	-17.41
7440.000	Peak	39.47	6.52	45.98	74.00	-28.02

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Report Number :TERF2407001913E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2024-07-12

Test Frequency :2480 MHz

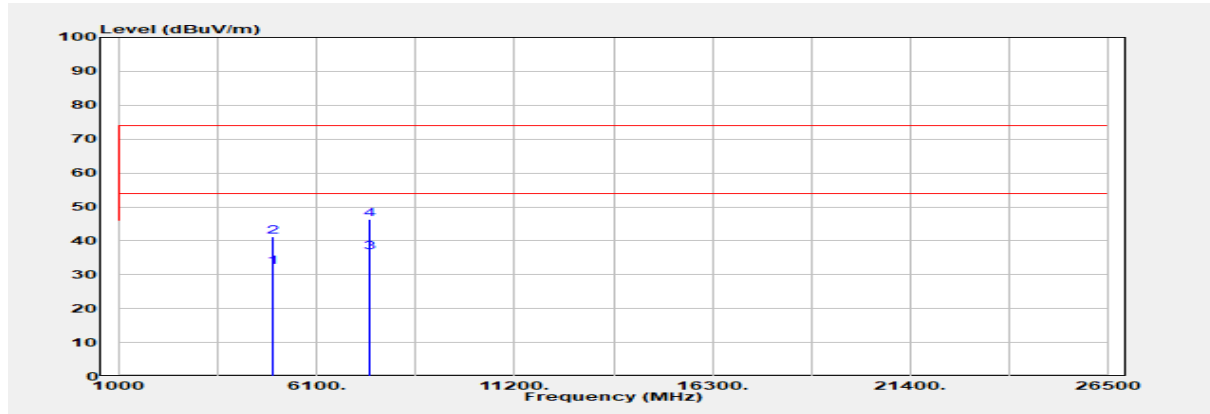
Temp./Humi. :22.4°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	31.51	0.70	32.21	54.00	-21.79
4960.000	Peak	40.56	0.70	41.26	74.00	-32.74
7440.000	Average	30.12	6.52	36.64	54.00	-17.36
7440.000	Peak	39.69	6.52	46.21	74.00	-27.79

~ End of Report ~

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