

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in Speaker
Applicant: Murata Manufacturing Co., Ltd.
Manufacturer: Murata Manufacturing Co., Ltd.
Brand Name: muRata
Model No.: LBEE5ZZ1XL
/ISED HVIN:
ISED PMN: LBEE5ZZ1XL
FCC Host Model: FQ262
ISED HMN: FQ262
Report Number: TERF2503000903E2
FCC ID VPYLBEE5ZZ1XL
IC: 772C-LBEE5ZZ1XL
Date of EUT Received: February 5, 2025
Date of Test: March 10, 2025~July 22, 2025
Issue Date: August 1, 2025

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, 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
TERF2503000903E2	00	Original	August 1, 2025	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	Wireless module installed in Speaker
Brand Name:	muRata
Model No.: /ISED HVIN:	LBEE5ZZ1XL
FCC Host Model:	FQ262
ISED HMN:	FQ262
Hardware Version:	L2
Firmware Version:	SDOS 2.2.0-alpha3
EUT Series No.:	T35A00028PH08, U03A30007PL50, T46A00039PH08
Power Supply:	110VAC from power cord
Test Software (Name/Version):	Dut Labtool v2.0.0.91

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 5.97 dBm BLE 2M: 5.92 dBm

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	DEVIALET	Simple Antenna Phoenix V102	2402~2480	3.7

Note:

1. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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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 3 Aug. 2023
RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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 SAC 2 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW0028	TW3702

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.

Temperature:	21.3~21.9	°C	Relative Humidity:	57~60	%
Test site	Conducted C		Test Start:	03/14/2025	
Test Engineer:	Joey You		Test Done:	03/14/2025	

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1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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 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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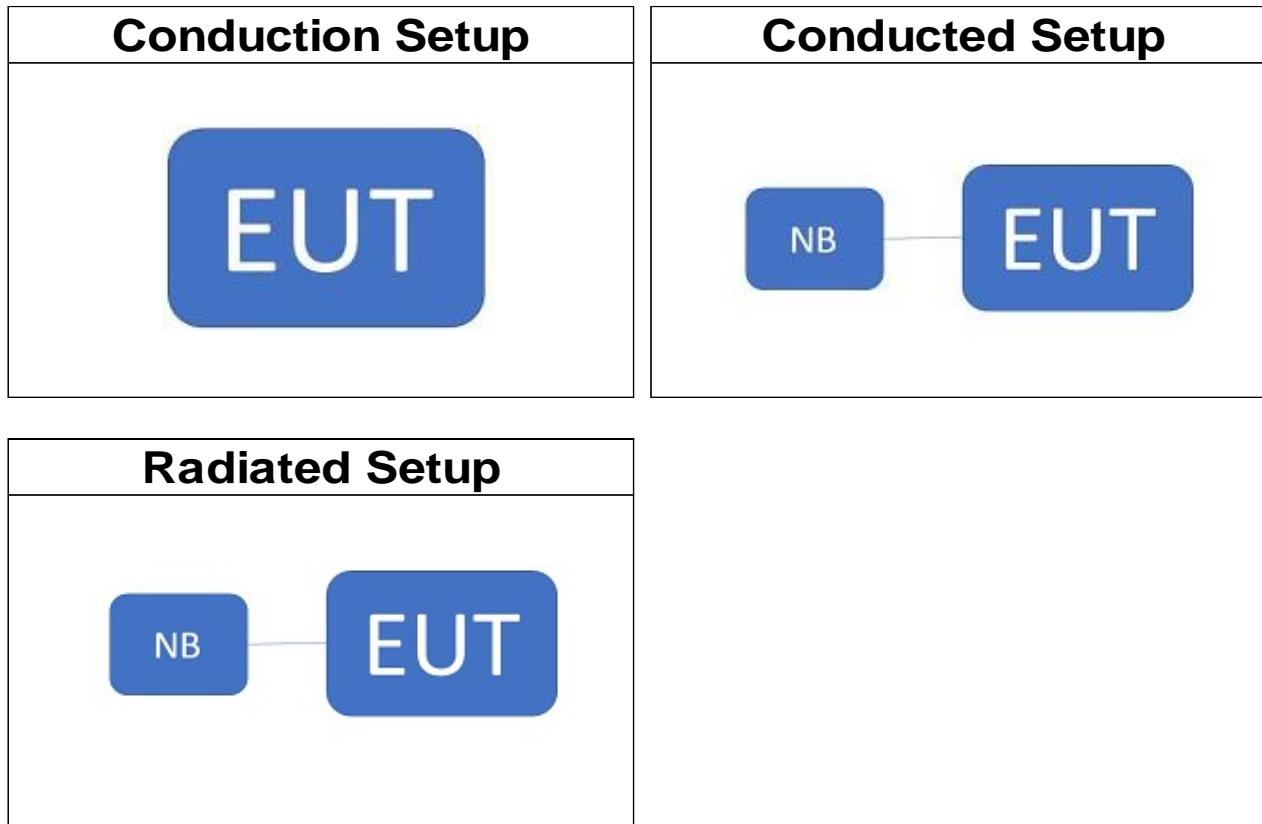
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	P0003859	N/A	N/A
LAN Cable	TATUNG	RJ-KT6-305	2420000052713	N/A	N/A
Power Line	Well Shin	WS-001	N/A	N/A	N/A
Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
LAN Cale	TATUNG	RJ-KT6-305	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	P0004691	N/A	N/A
LAN Cable	AMP	AMP-6e	4719862256612	N/A	N/A
Power Line	Well Shin	WS-001	N/A	N/A	N/A

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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) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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

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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 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
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE_1M	0 to 39	20	GFSK	1
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE_1M	0 to 39	0,20,39	GFSK	1
Bluetooth LE_2M	0 to 39	0,20,39	GFSK	2

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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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
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCAFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/14/2024	11/13/2025
Coaxial Cable	SUCCOFLEX	SUCCOFLEX 102	MY2153/2+MY520 415/2	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX10-2624-3200-18000-80SS	RF176	11/14/2024	11/13/2025
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/15/2025	04/14/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
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 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

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

Frequency range MHz	Limits (dB μ V)	
	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

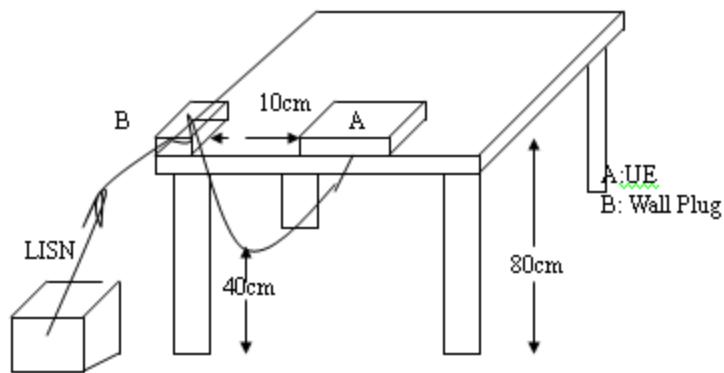
Note

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:

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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

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

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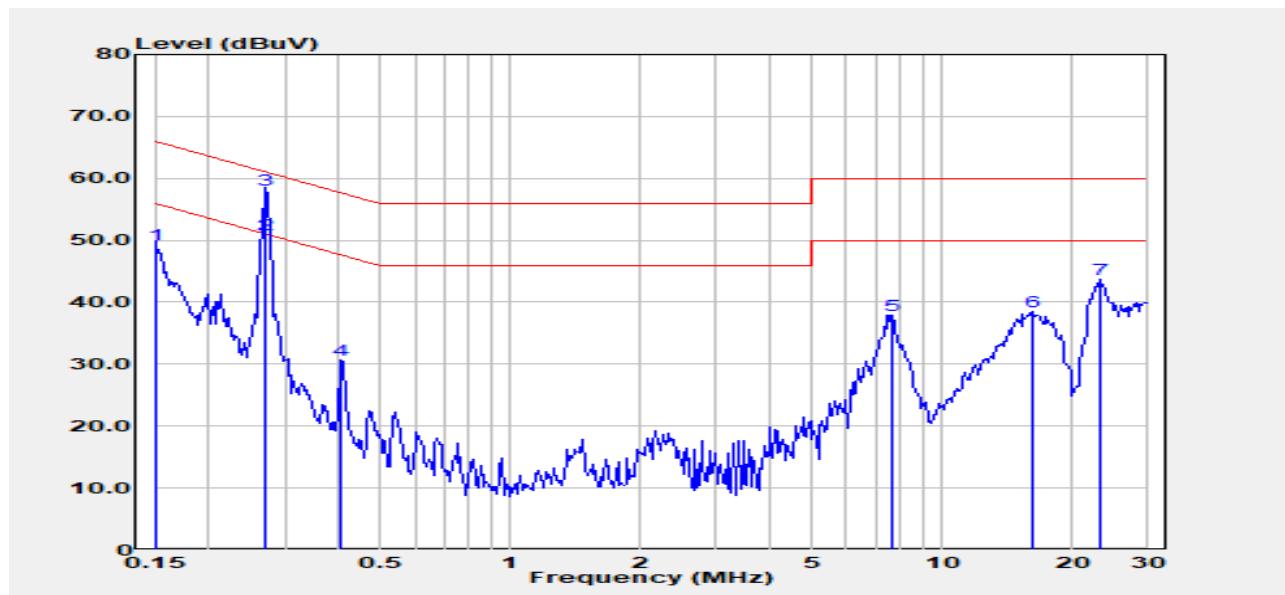
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2503000903E2 Test Site :Conduction C
 Test Mode :BLE Test Date :2025-07-22
 Power :120V/60Hz Temp./Humi :24°C/61%
 Probe :L1 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Peak	38.71	10.69	49.40	65.91	-16.51
0.272	Average	40.30	10.66	50.96	51.07	-0.11
0.272	QP	47.50	10.66	58.16	61.07	-2.91
0.406	Peak	20.12	10.64	30.76	57.73	-26.97
7.646	Peak	26.95	10.97	37.92	60.00	-22.08
16.226	Peak	27.31	11.10	38.40	60.00	-21.60
23.263	Peak	32.53	11.23	43.76	60.00	-16.24

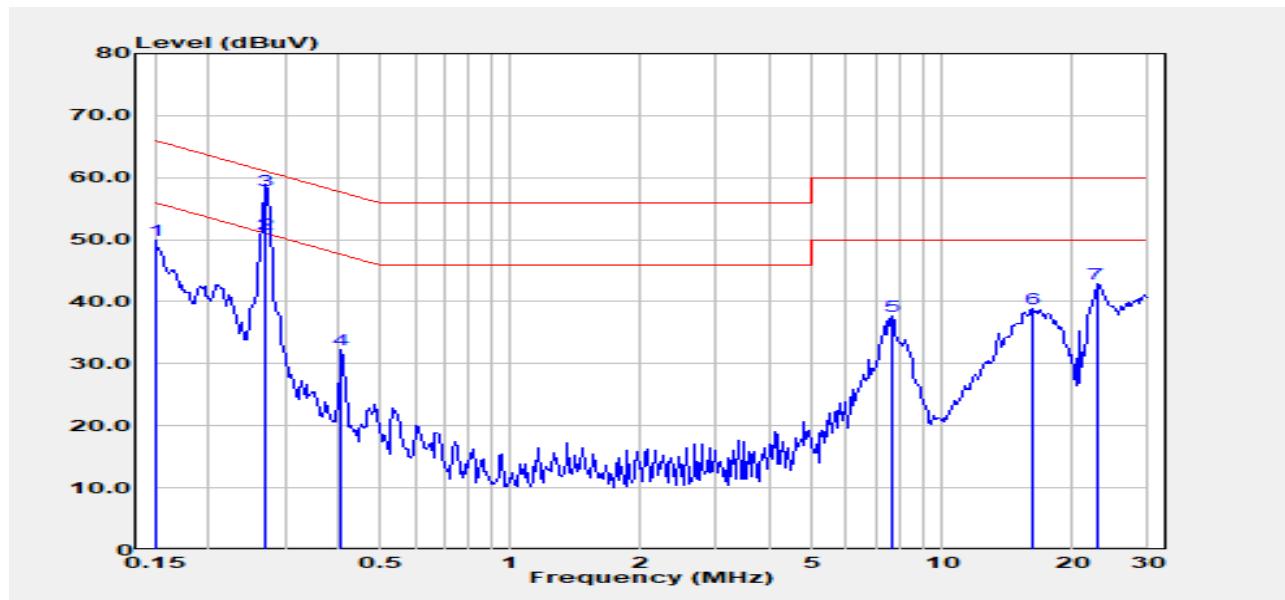
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Report Number :TERF2503000903E2 Test Site :Conduction C
 Test Mode :BLE Test Date :2025-07-22
 Power :120V/60Hz Temp./Humi :24°C/61%
 Probe :N Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.150	Peak	39.21	10.67	49.88	66.00	-16.12
0.272	Average	40.20	10.65	50.85	51.07	-0.22
0.272	QP	47.20	10.65	57.85	61.07	-3.22
0.406	Peak	21.56	10.62	32.18	57.73	-25.54
7.646	Peak	26.76	11.00	37.75	60.00	-22.25
16.226	Peak	27.68	11.17	38.85	60.00	-21.15
22.775	Peak	31.64	11.32	42.96	60.00	-17.04

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

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

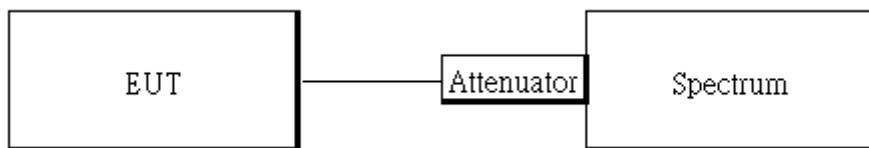
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.1.3 ISED

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 4W.

8.2 Test Setup

8.2.1 Duty Cycle



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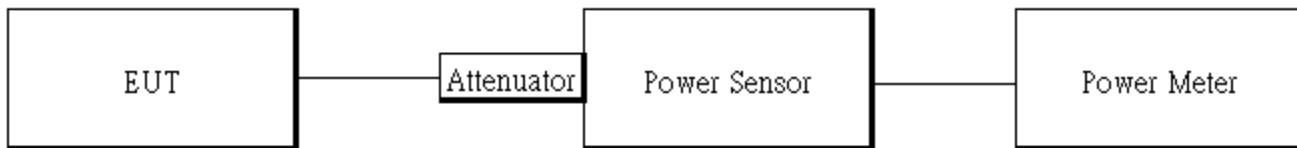
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8.2.2 Output Power



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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8.4 Duty Factor:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	62.40	2.05	2.56	3.00
BLE 2M	33.60	4.74	4.76	5.00



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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	8	5.97	30
20	2442	8	5.82	30
39	2480	8	5.73	30

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	8	5.90	30
20	2442	8	5.76	30
39	2480	8	5.68	30

*Note:

1. Measured by power meter, cable loss 10.8 dB + Duty cycle factor has been offset to the power meter for Avg. power and cable loss has been offset for Peak power measurement.

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BLE 2M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	8	5.92	30
20	2442	8	5.77	30
39	2480	8	5.56	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	8	5.81	30
20	2442	8	5.69	30
39	2480	8	5.44	30

*Note:

1. Measured by power meter, cable loss 10.8 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

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	8	5.90	3.70	9.60	4W= 36 dBm
20	2442	8	5.76	3.70	9.46	4W= 36 dBm
39	2480	8	5.68	3.70	9.38	4W= 36 dBm

* Note: EIRP = Average Power + Gain

EIRP BLE 2M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	8	5.81	3.70	9.51	4W= 36 dBm
20	2442	8	5.69	3.70	9.39	4W= 36 dBm
39	2480	8	5.44	3.70	9.14	4W= 36 dBm

* Note: EIRP = Average Power + Gain

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9 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 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.

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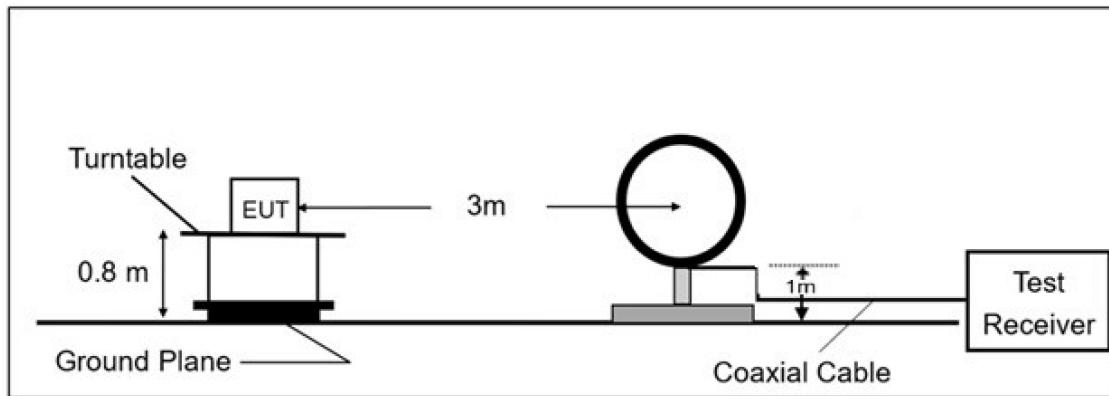
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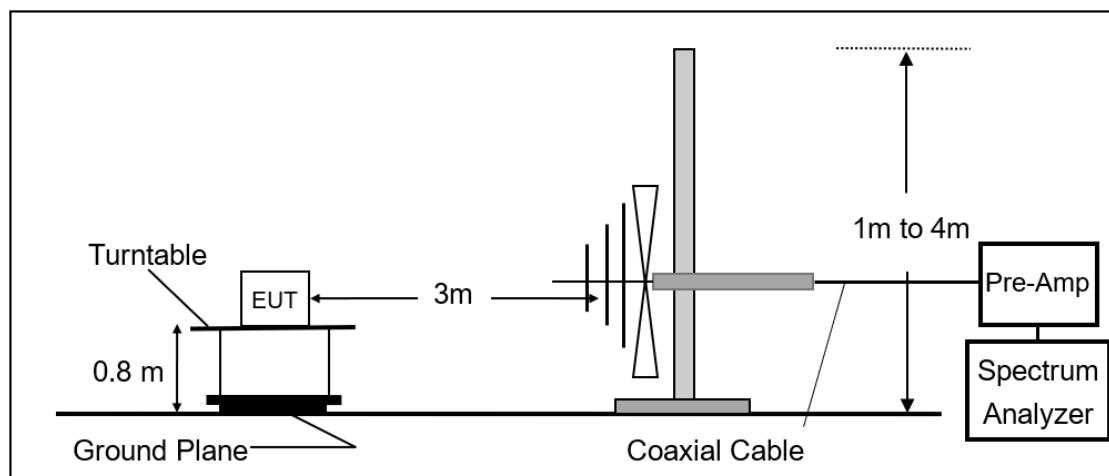
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9.1 Test Setup

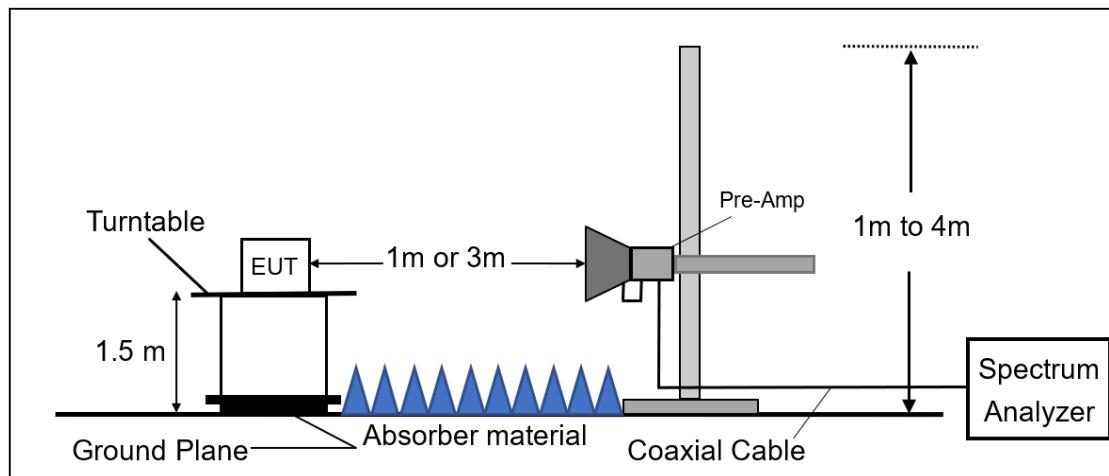
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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9.2 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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when D ≥ 98%**. If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$ **when D < 98%** for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all default test channel measured were complete.

9.3 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:

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

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 $dB\mu V/m$, which converts $20 * \log(\mu V/m)$

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

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

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

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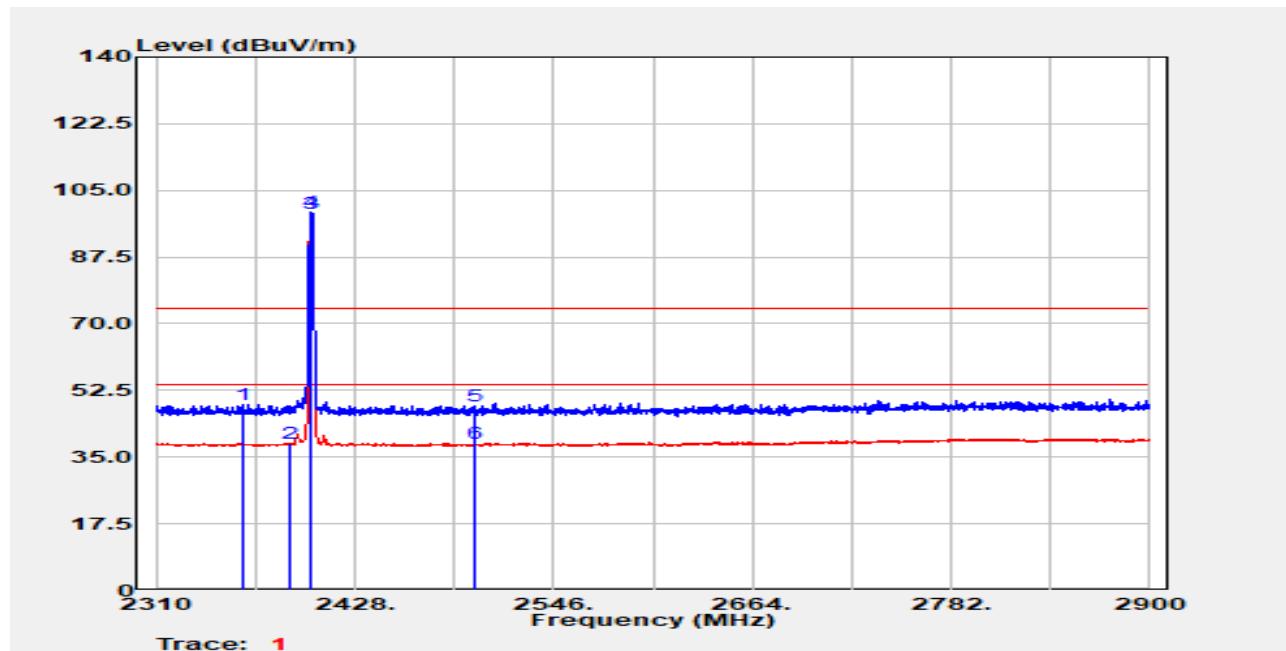
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9.4.1 Radiated Band Edge Measurement Result

Report Number	:TERF2503000903E2	Test Site	:SAC G
Operation Mode	:BLE 1M	Test Date	:2025-05-29
Test Frequency	:2402 MHz	Temp./Humi.	:24.1°C/65%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2361.74	Peak	52.15	-3.27	48.88	74.00	-25.12
2389.87	Average	41.90	-3.24	38.66	54.00	-15.34
2402.00	Average	102.30	-3.36	98.94	-	-
2402.00	Peak	102.59	-3.36	99.23	-	-
2498.86	Peak	51.74	-3.34	48.40	74.00	-25.60
2499.65	Average	41.92	-3.34	38.58	54.00	-15.42

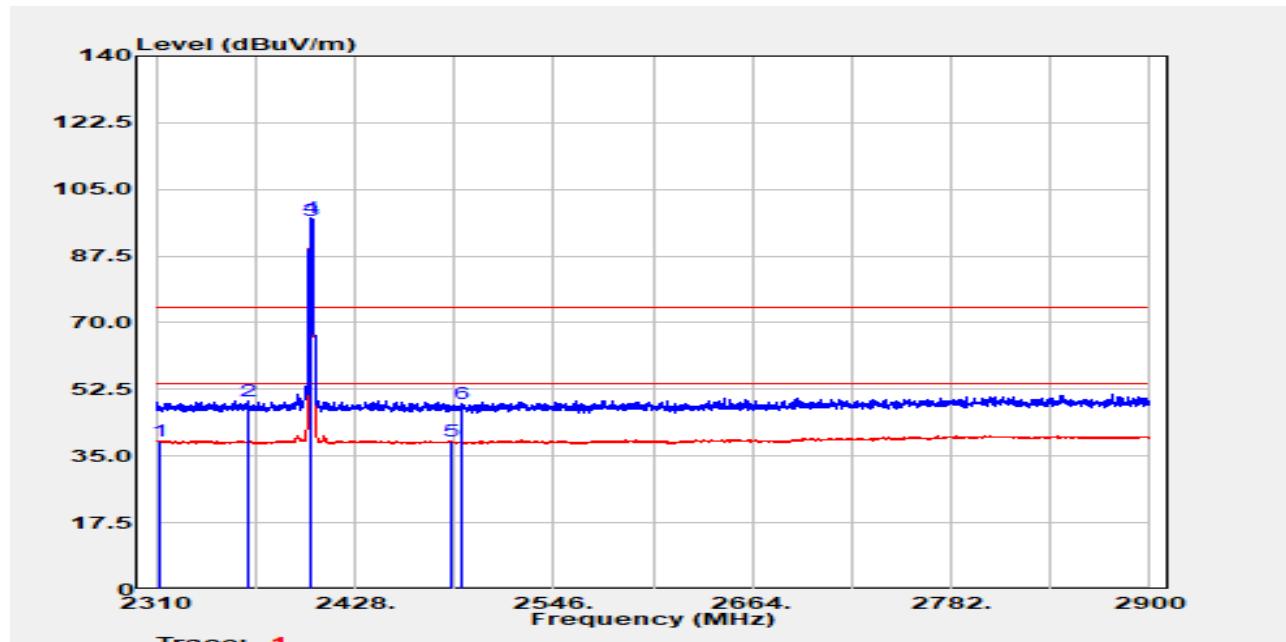
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2312.75	Average	42.32	-3.20	39.12	54.00	-14.88
2364.10	Peak	52.94	-3.29	49.65	74.00	-24.35
2402.00	Average	100.35	-3.36	96.99	-	-
2402.00	Peak	100.95	-3.36	97.59	-	-
2484.90	Average	42.14	-3.35	38.79	54.00	-15.21
2491.78	Peak	52.19	-3.35	48.84	74.00	-25.16

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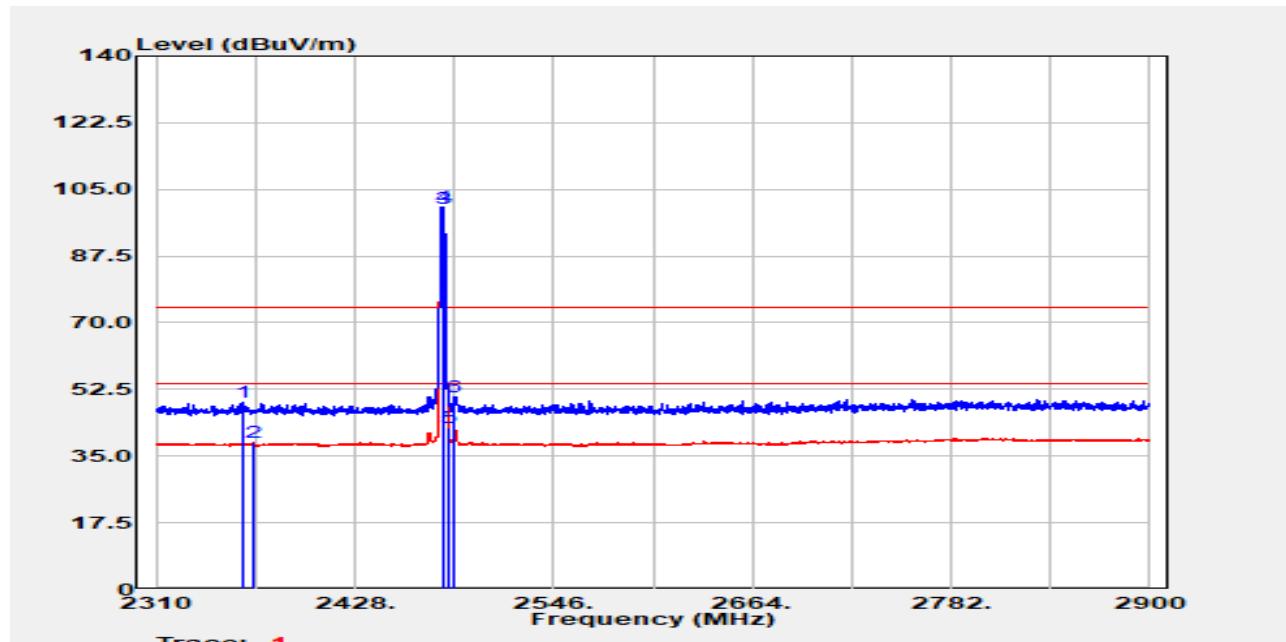
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Report Number :TERF2503000903E2 Test Site :SAC G
 Operation Mode :BLE 1M Test Date :2025-05-29
 Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2360.95	Peak	52.22	-3.26	48.96	74.00	-25.04
2367.64	Average	41.83	-3.33	38.50	54.00	-15.50
2480.00	Average	103.20	-3.36	99.84	-	-
2480.00	Peak	103.78	-3.36	100.42	-	-
2483.50	Average	45.73	-3.35	42.38	54.00	-11.62
2487.45	Peak	53.95	-3.36	50.59	74.00	-23.41

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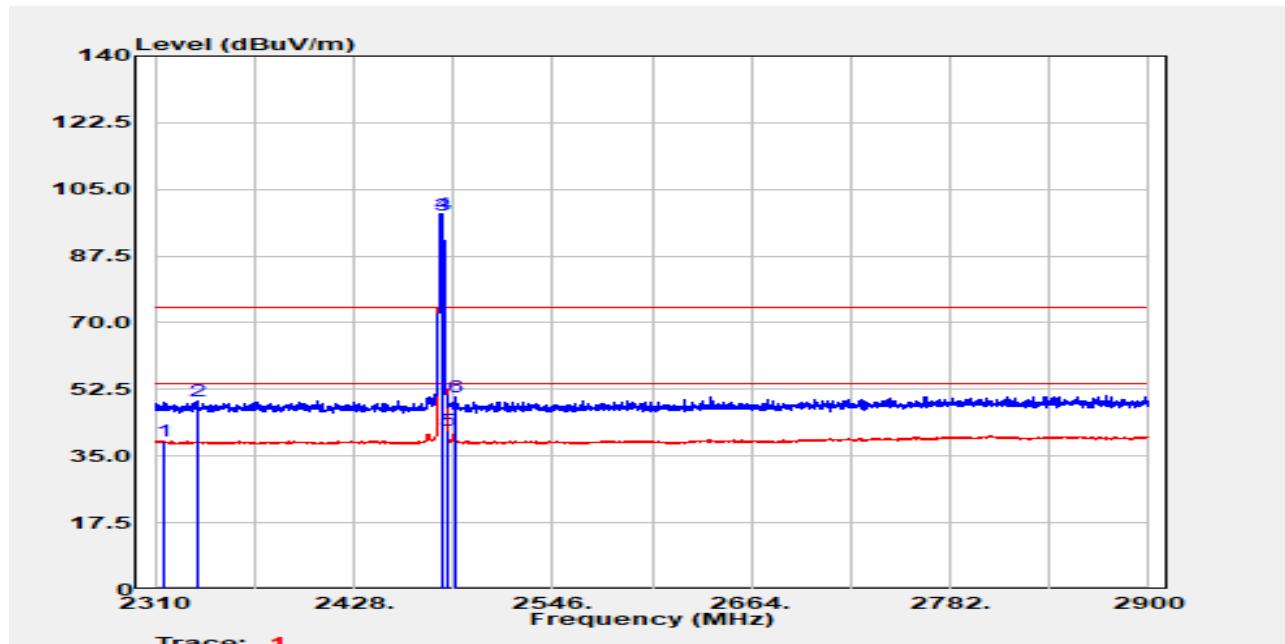
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



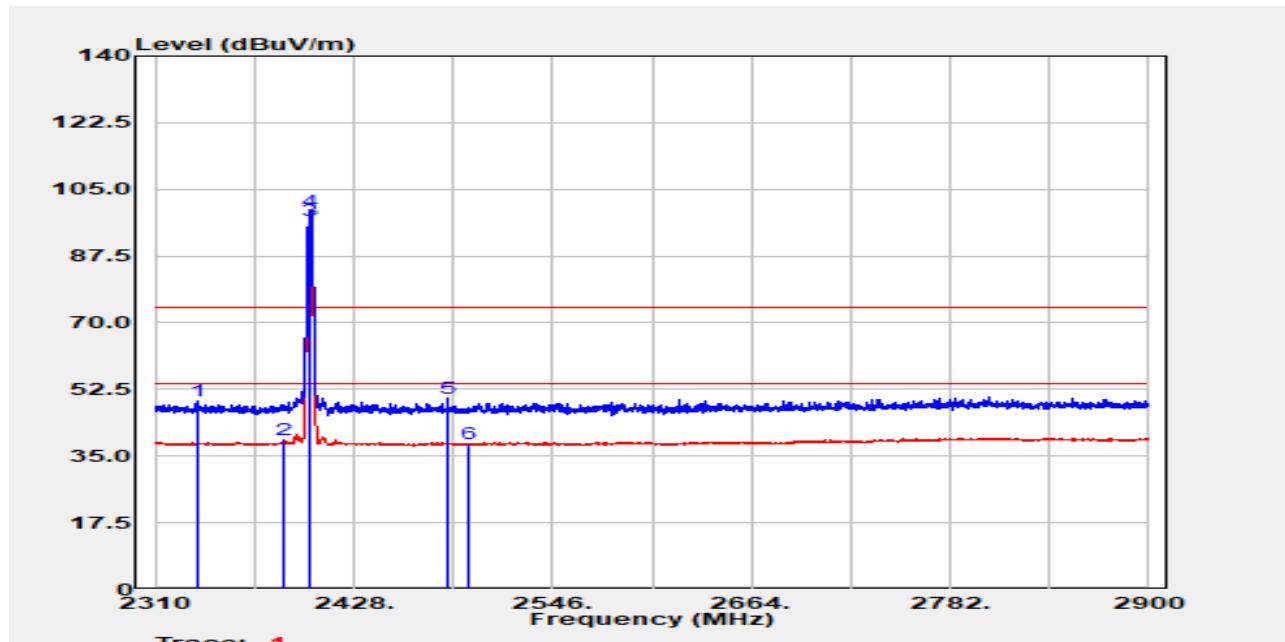
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2314.72	Average	42.22	-3.22	39.00	54.00	-15.00
2334.59	Peak	52.66	-3.26	49.40	74.00	-24.60
2480.00	Average	101.51	-3.36	98.15	-	-
2480.00	Peak	102.13	-3.36	98.77	-	-
2483.50	Average	44.95	-3.35	41.60	54.00	-12.40
2488.04	Peak	53.94	-3.35	50.59	74.00	-23.41

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Report Number :TERF2503000903E2 Test Site :SAC G
 Operation Mode :BLE 2M Test Date :2025-05-29
 Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2334.59	Peak	52.63	-3.26	49.37	74.00	-24.63
2386.92	Average	42.43	-3.27	39.16	54.00	-14.84
2402.00	Average	100.27	-3.36	96.91	-	-
2402.00	Peak	102.83	-3.36	99.47	-	-
2483.91	Peak	53.43	-3.35	50.08	74.00	-23.92
2496.11	Average	41.66	-3.35	38.31	54.00	-15.69

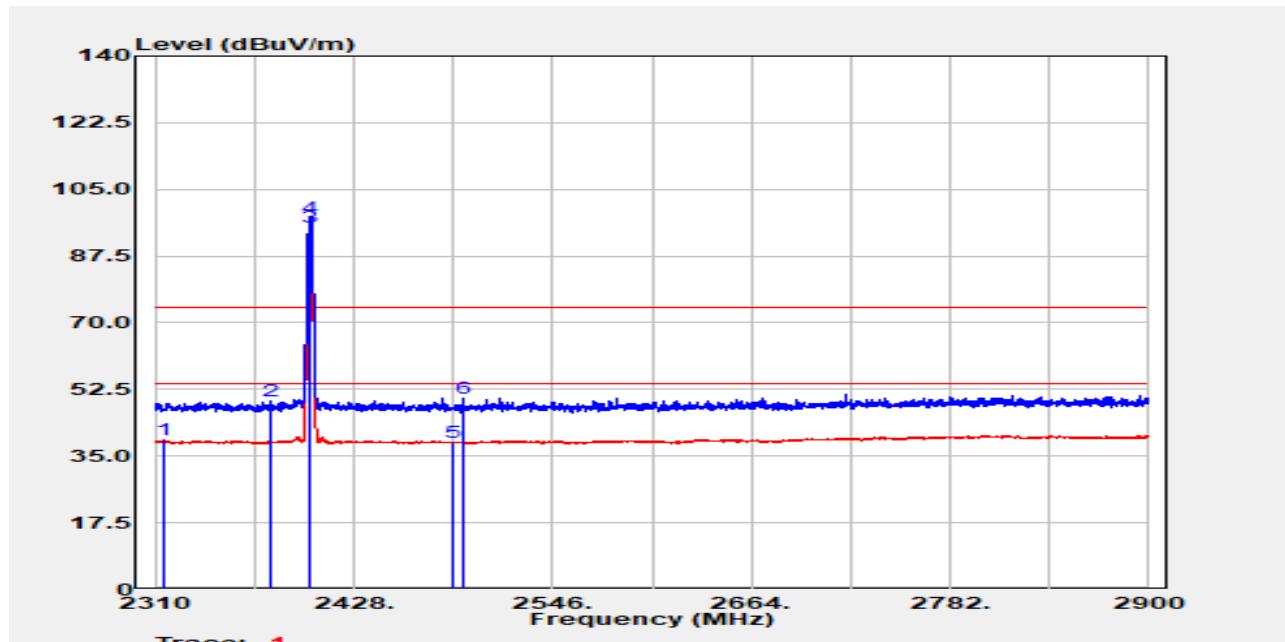
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



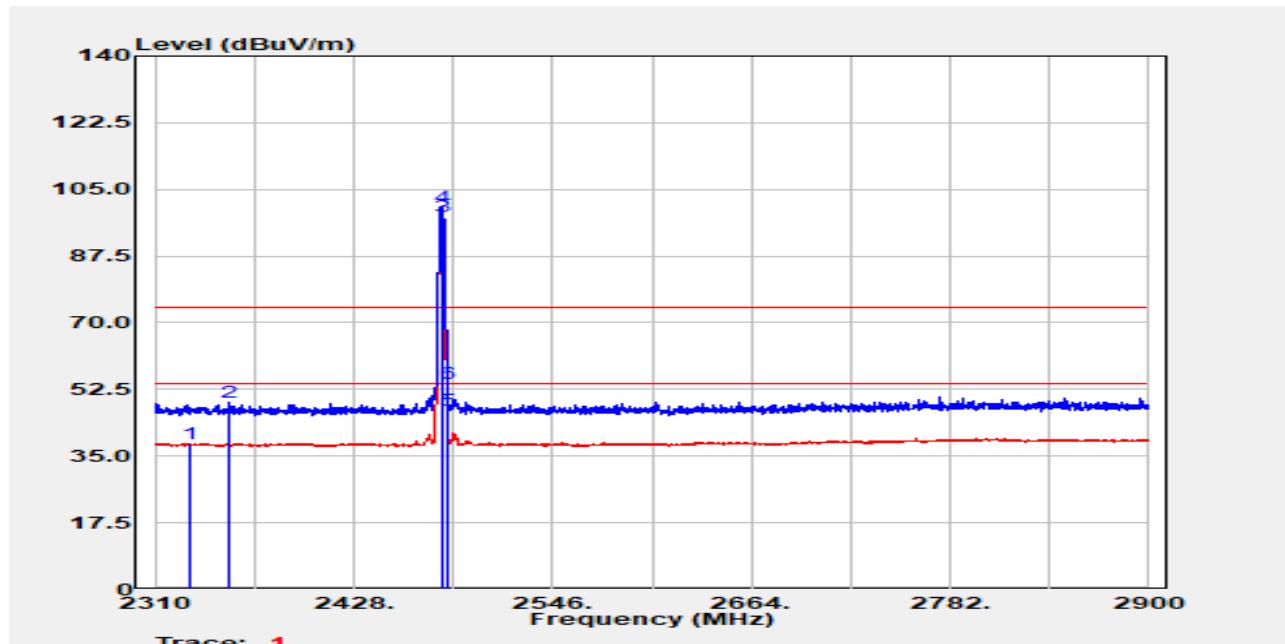
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2314.72	Average	42.38	-3.22	39.16	54.00	-14.84
2378.07	Peak	52.92	-3.35	49.57	74.00	-24.43
2402.00	Average	98.28	-3.36	94.92	-	-
2402.00	Peak	100.95	-3.36	97.59	-	-
2486.27	Average	42.12	-3.36	38.76	54.00	-15.24
2492.57	Peak	53.37	-3.34	50.03	74.00	-23.97

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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2330.46	Average	41.62	-3.27	38.35	54.00	-15.65
2354.46	Peak	52.22	-3.26	48.96	74.00	-25.04
2480.00	Average	101.17	-3.36	97.81	-	-
2480.00	Peak	103.82	-3.36	100.46	-	-
2483.50	Average	50.44	-3.35	47.09	54.00	-6.91
2483.50	Peak	57.25	-3.35	53.90	74.00	-20.10

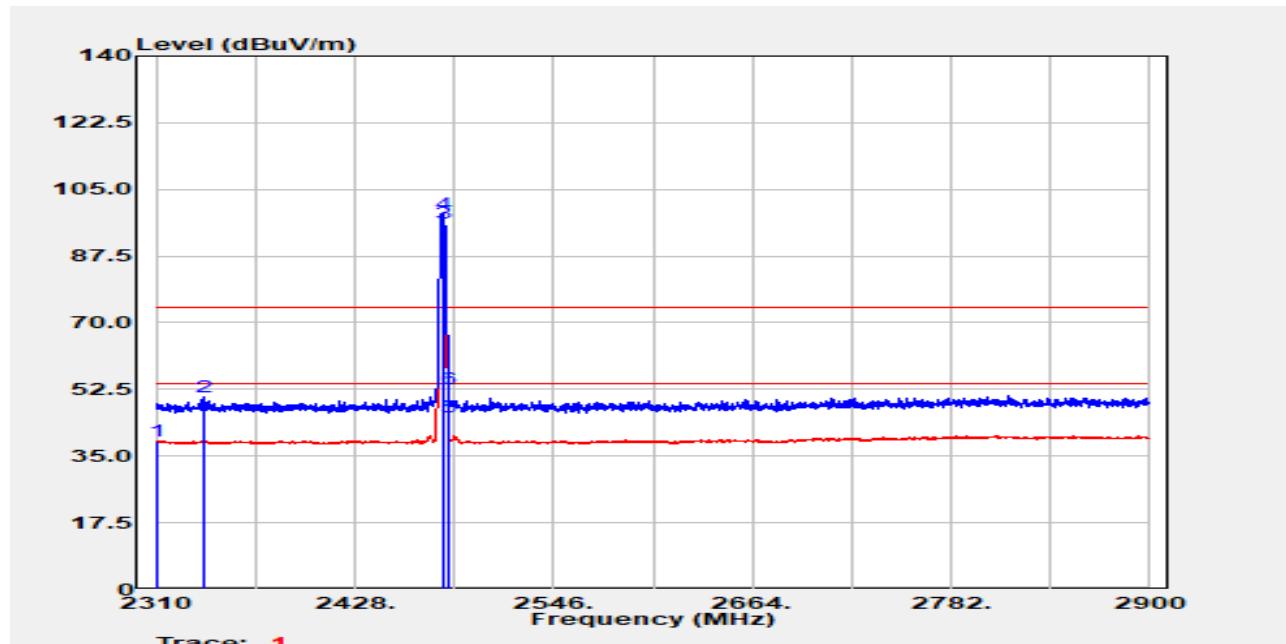
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Report Number :TERF2503000903E2 Test Site :SAC G
 Operation Mode :BLE 2M Test Date :2025-05-29
 Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2310.20	Average	42.17	-3.17	39.00	54.00	-15.00
2337.74	Peak	53.63	-3.26	50.37	74.00	-23.63
2480.00	Average	99.47	-3.36	96.11	-	-
2480.00	Peak	102.07	-3.36	98.71	-	-
2483.50	Average	48.77	-3.35	45.42	54.00	-8.58
2483.50	Peak	55.84	-3.35	52.49	74.00	-21.51

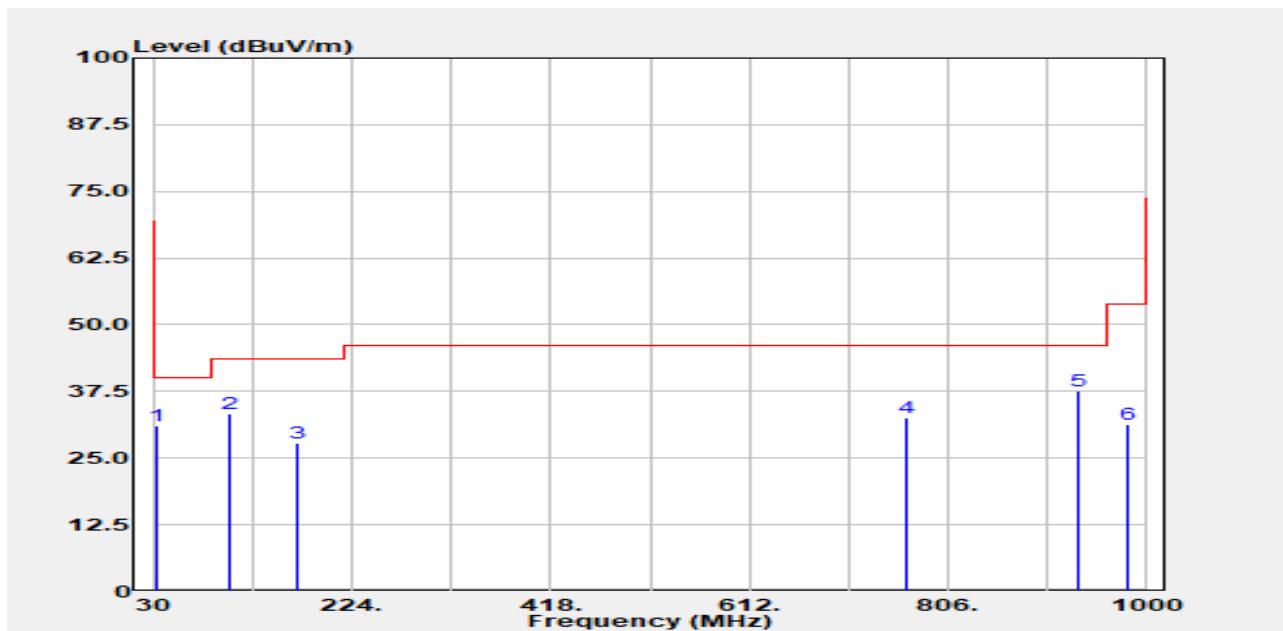
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9.4.2 Radiated Spurious Emission

Report Number	:TERF2503000903E2	Test Site	:SAC G
Operation Mode	:BLE 1M	Test Date	:2025-06-17
Test Frequency	:2442 MHz	Temp./Humi.	:21.0°C/64%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.91	QP	45.70	-14.53	31.17	40.00	-8.83
104.69	QP	50.20	-16.80	33.40	43.50	-10.10
171.62	QP	41.29	-13.43	27.86	43.50	-15.64
764.29	Peak	34.35	-1.87	32.48	46.00	-13.52
934.04	Peak	36.98	0.55	37.53	46.00	-8.47
980.60	Peak	30.42	0.80	31.22	54.00	-22.78

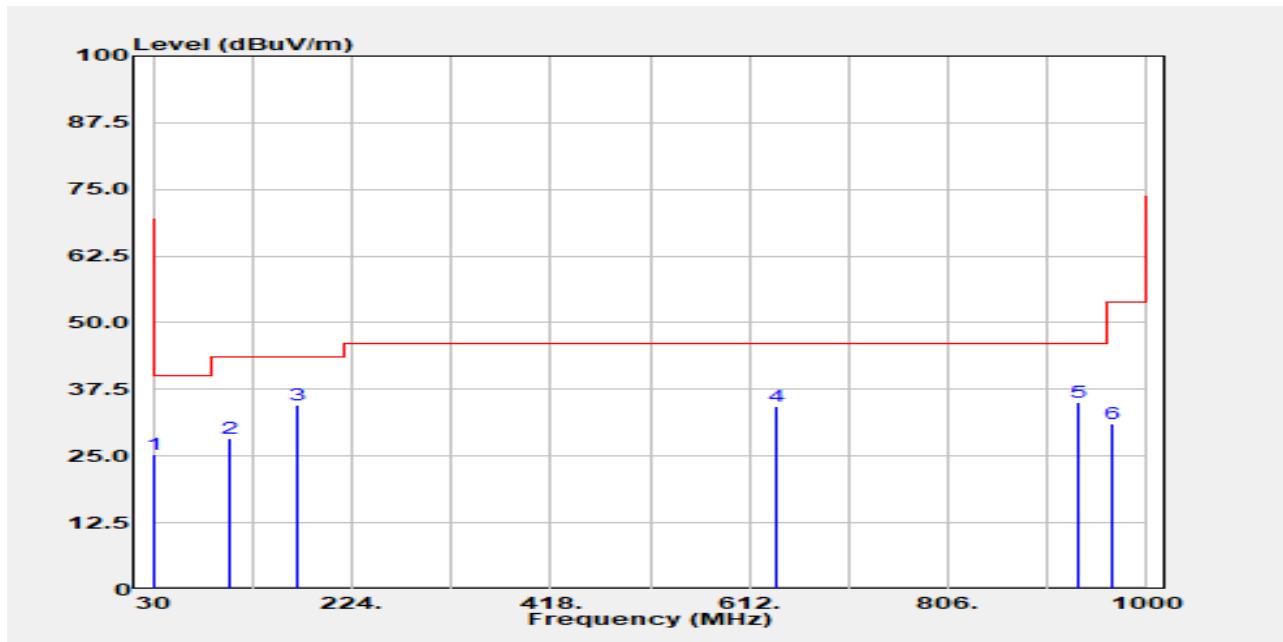
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-06-17
Test Frequency :2442 MHz Temp./Humi. :21.0°C/64%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



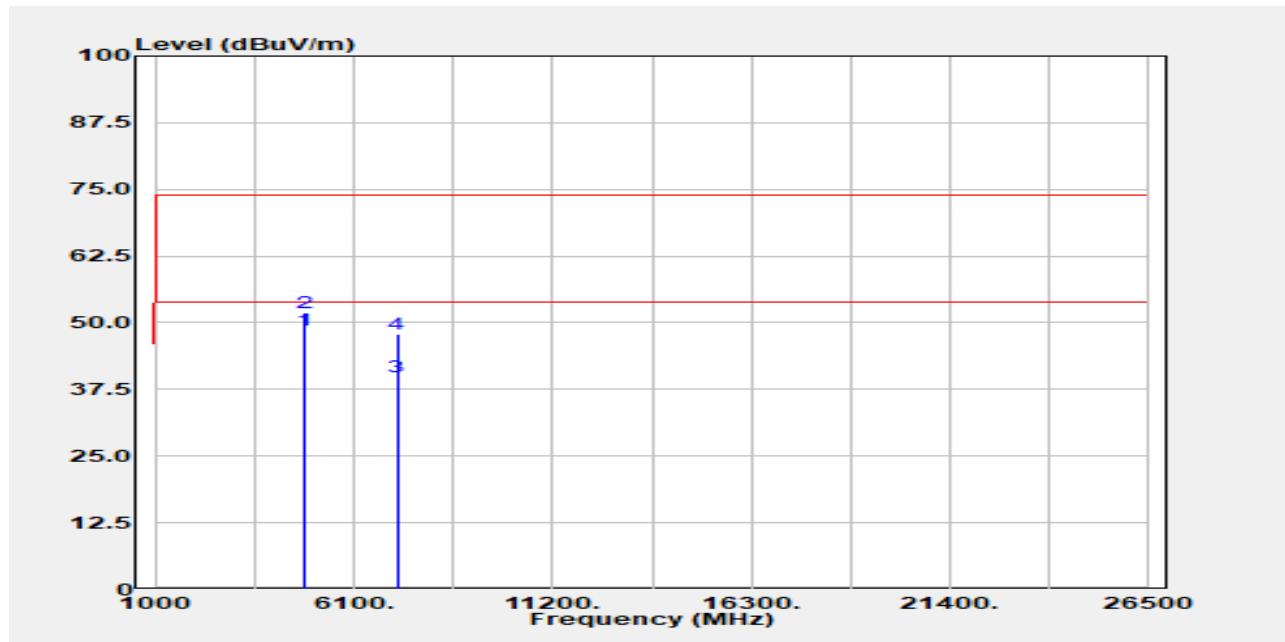
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	Peak	39.67	-14.34	25.33	40.00	-14.67
104.69	Peak	45.15	-16.80	28.35	43.50	-15.15
171.62	Peak	48.06	-13.43	34.63	43.50	-8.87
639.16	Peak	38.55	-4.15	34.40	46.00	-11.60
934.04	Peak	34.53	0.55	35.08	46.00	-10.92
967.02	Peak	30.16	0.80	30.96	54.00	-23.04

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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	44.76	3.89	48.65	54.00	-5.35
4804.00	Peak	47.97	3.89	51.86	74.00	-22.14
7206.00	Average	31.56	8.32	39.88	54.00	-14.12
7206.00	Peak	39.63	8.32	47.95	74.00	-26.05

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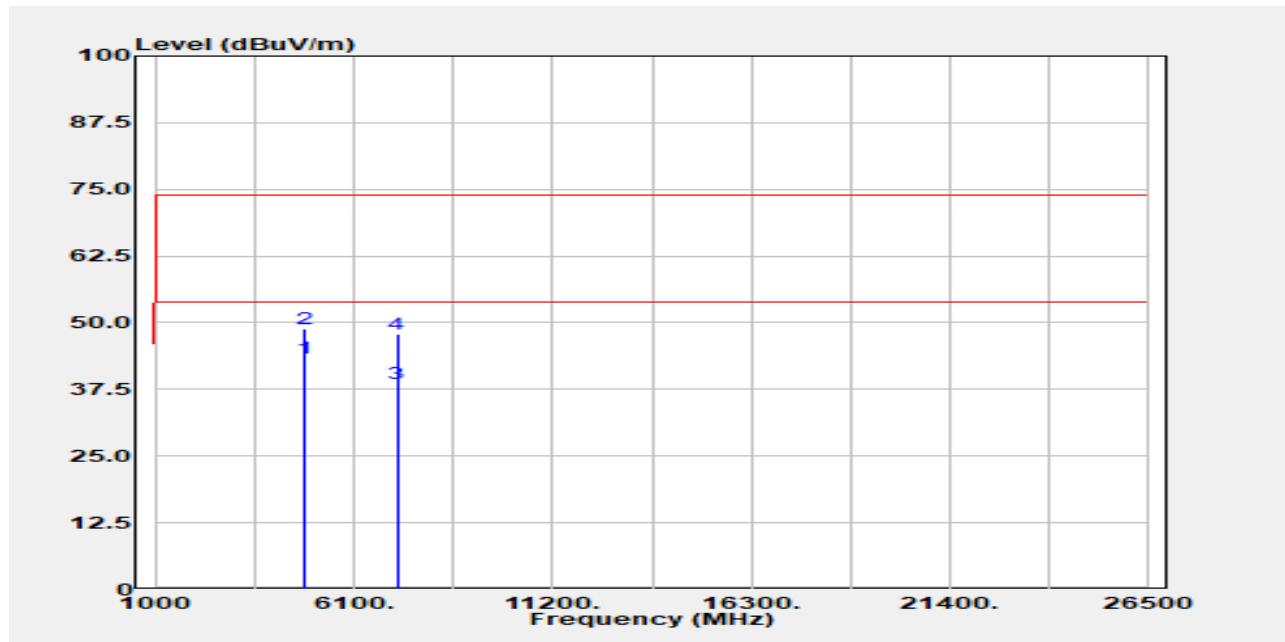
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	39.42	3.89	43.31	54.00	-10.69
4804.00	Peak	44.92	3.89	48.81	74.00	-25.19
7206.00	Average	30.22	8.32	38.54	54.00	-15.46
7206.00	Peak	39.58	8.32	47.90	74.00	-26.10

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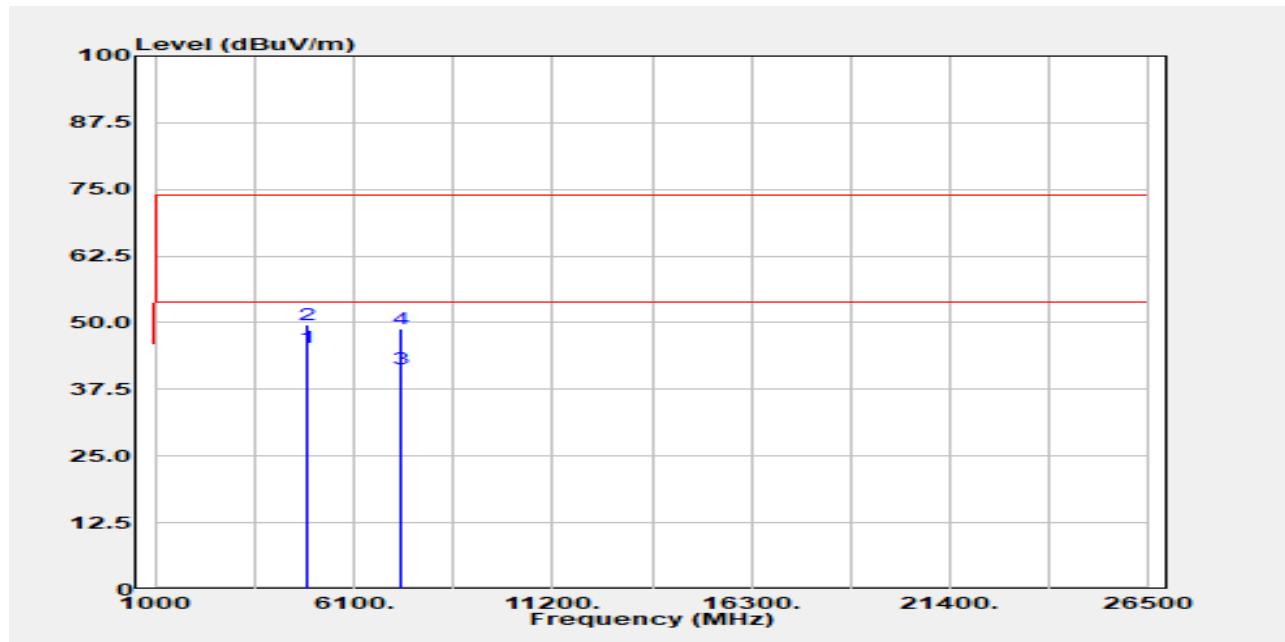
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2442 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	41.22	4.08	45.30	54.00	-8.70
4884.00	Peak	45.57	4.08	49.65	74.00	-24.35
7326.00	Average	32.94	8.36	41.30	54.00	-12.70
7326.00	Peak	40.51	8.36	48.87	74.00	-25.13

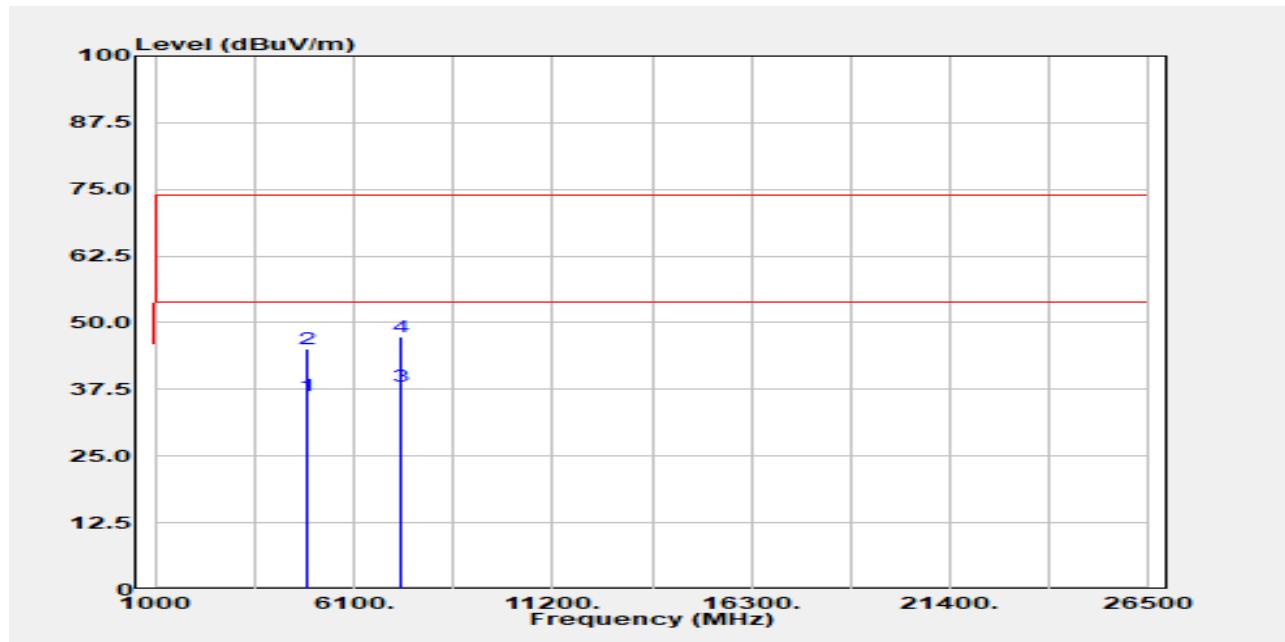
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2442 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	32.35	4.08	36.43	54.00	-17.57
4884.00	Peak	41.14	4.08	45.22	74.00	-28.78
7326.00	Average	29.77	8.36	38.13	54.00	-15.87
7326.00	Peak	39.12	8.36	47.48	74.00	-26.52

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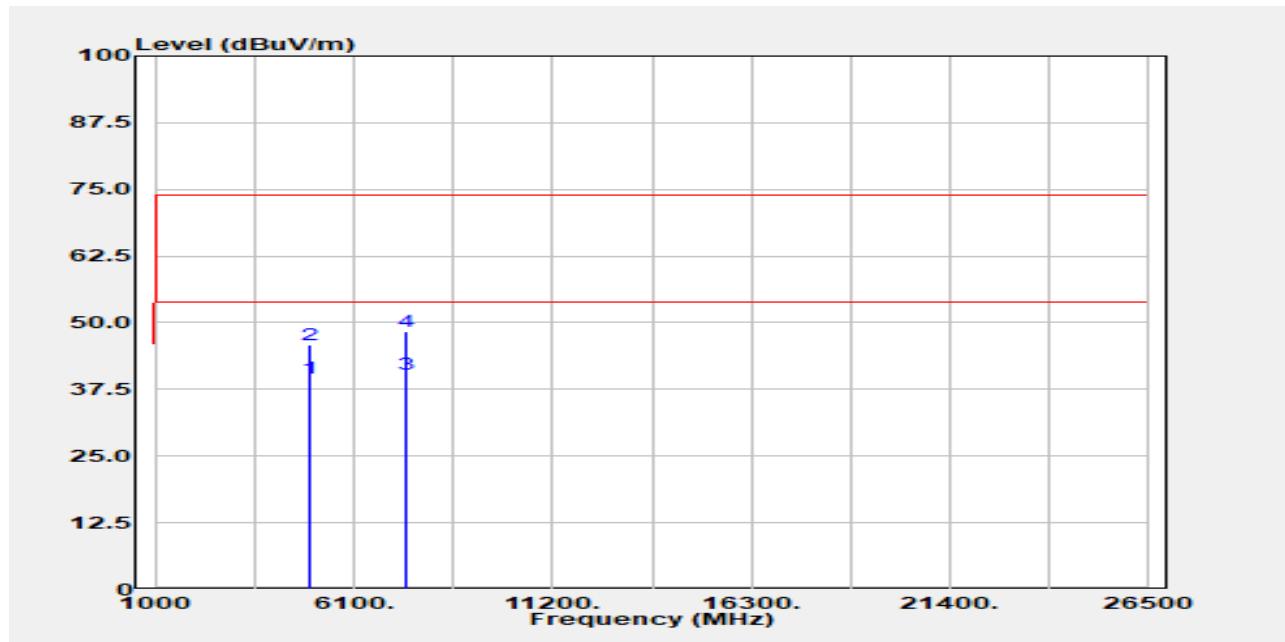
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



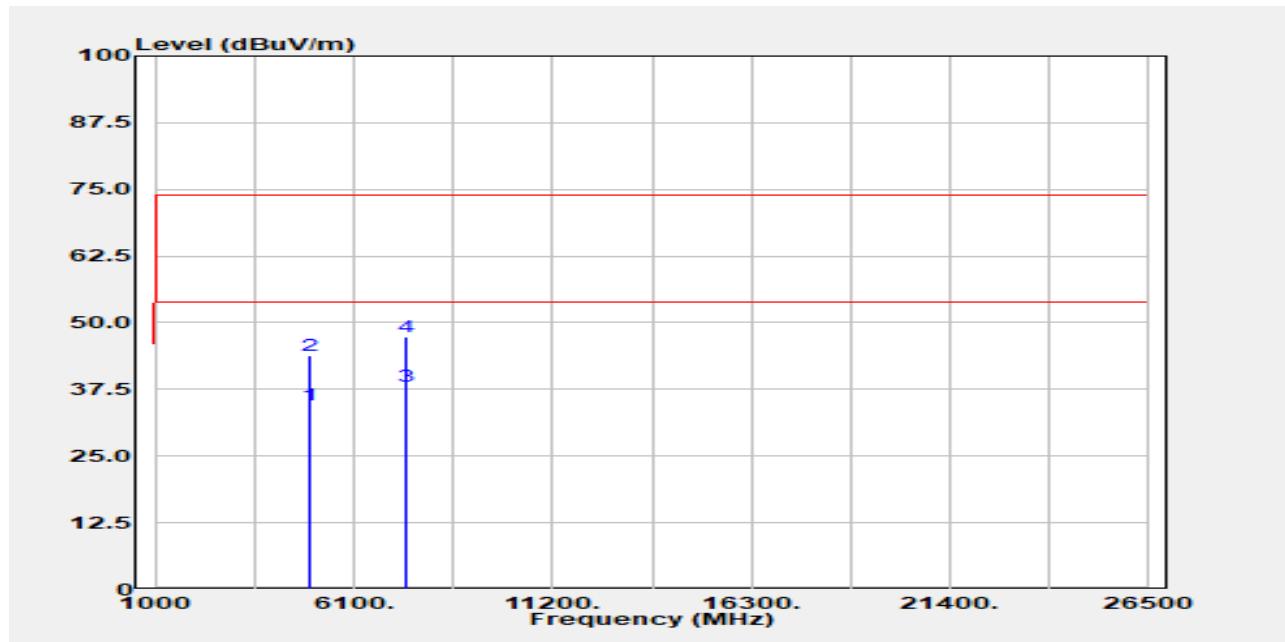
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	35.36	4.24	39.60	54.00	-14.40
4960.00	Peak	41.62	4.24	45.86	74.00	-28.14
7440.00	Average	31.36	8.92	40.28	54.00	-13.72
7440.00	Peak	39.49	8.92	48.41	74.00	-25.59

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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 1M Test Date :2025-05-29
Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	30.44	4.24	34.68	54.00	-19.32
4960.00	Peak	39.64	4.24	43.88	74.00	-30.12
7440.00	Average	29.19	8.92	38.11	54.00	-15.89
7440.00	Peak	38.56	8.92	47.48	74.00	-26.52

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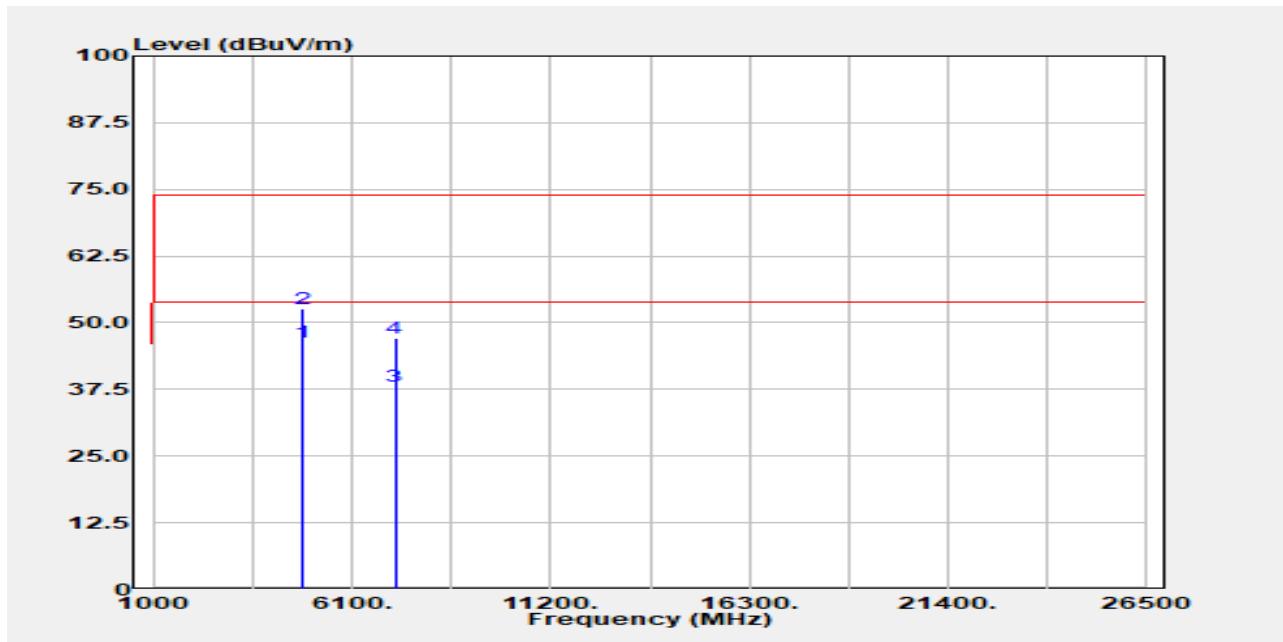
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	42.48	3.89	46.37	54.00	-7.63
4804.00	Peak	48.71	3.89	52.60	74.00	-21.40
7206.00	Average	29.78	8.32	38.10	54.00	-15.90
7206.00	Peak	38.78	8.32	47.10	74.00	-26.90

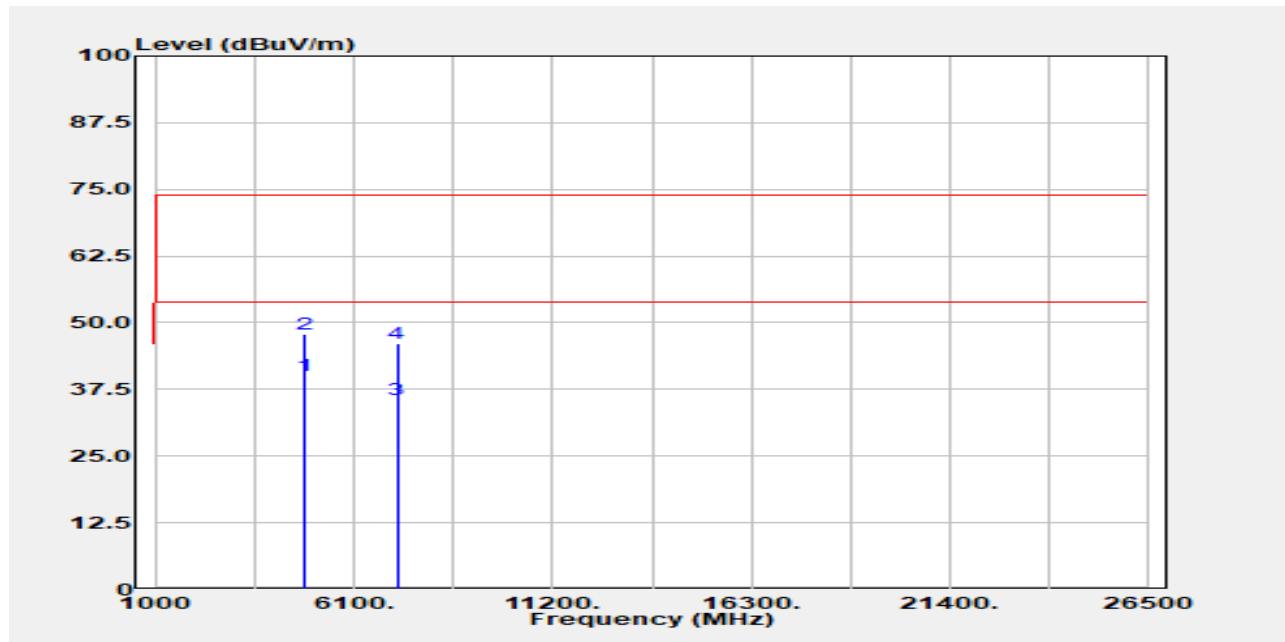
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2402 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	36.16	3.89	40.05	54.00	-13.95
4804.00	Peak	44.08	3.89	47.97	74.00	-26.03
7206.00	Average	27.27	8.32	35.59	54.00	-18.41
7206.00	Peak	37.91	8.32	46.23	74.00	-27.77

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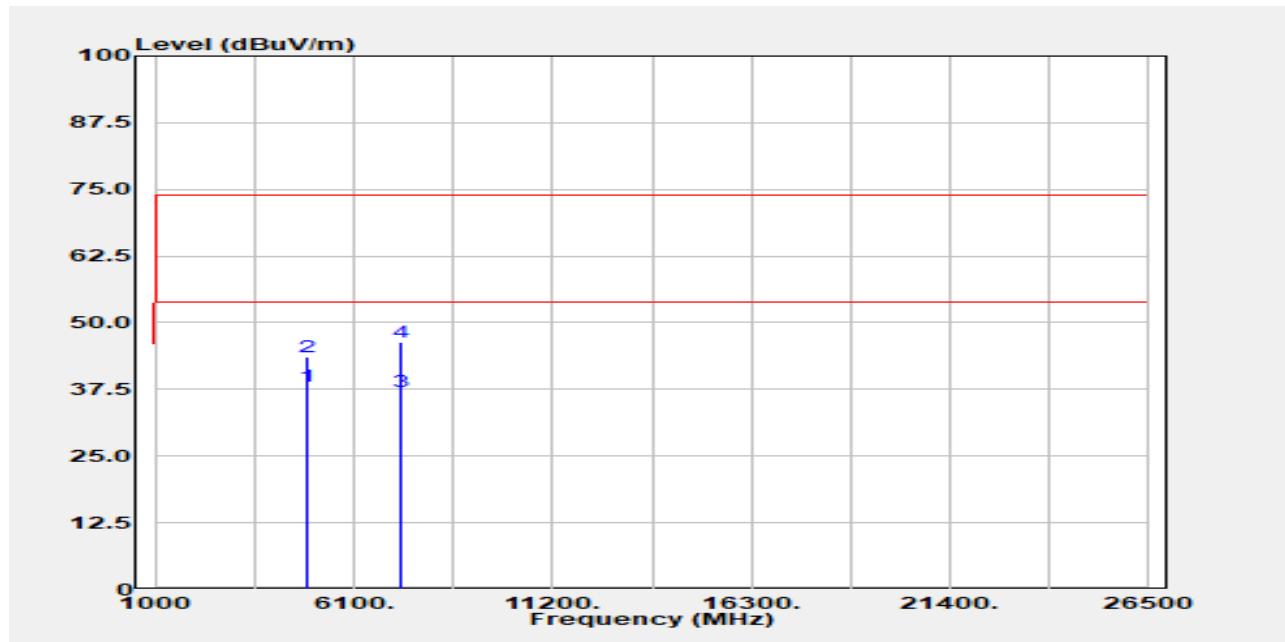
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Report Number	:TERF2503000903E2	Test Site	:SAC G
Operation Mode	:BLE 2M	Test Date	:2025-05-29
Test Frequency	:2442 MHz	Temp./Humi.	:24.1°C/65%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



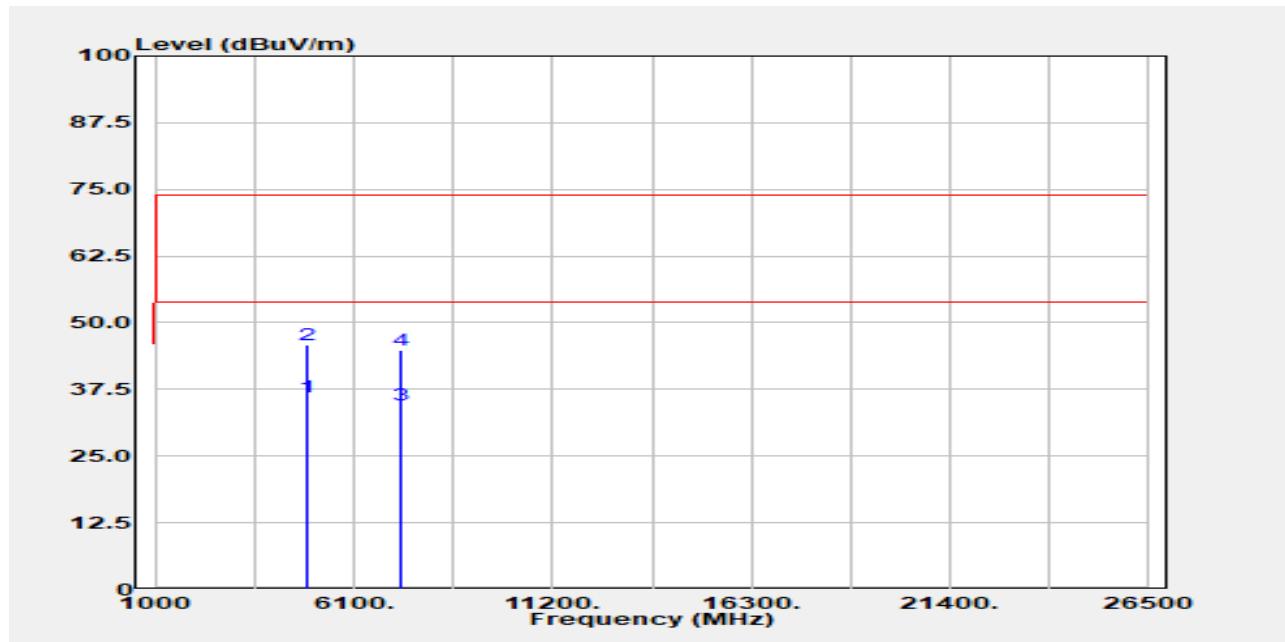
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	34.00	4.08	38.08	54.00	-15.92
4884.00	Peak	39.56	4.08	43.64	74.00	-30.36
7326.00	Average	28.85	8.36	37.21	54.00	-16.79
7326.00	Peak	38.06	8.36	46.42	74.00	-27.58

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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2442 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	32.05	4.08	36.13	54.00	-17.87
4884.00	Peak	41.69	4.08	45.77	74.00	-28.23
7326.00	Average	26.19	8.36	34.55	54.00	-19.45
7326.00	Peak	36.41	8.36	44.77	74.00	-29.23

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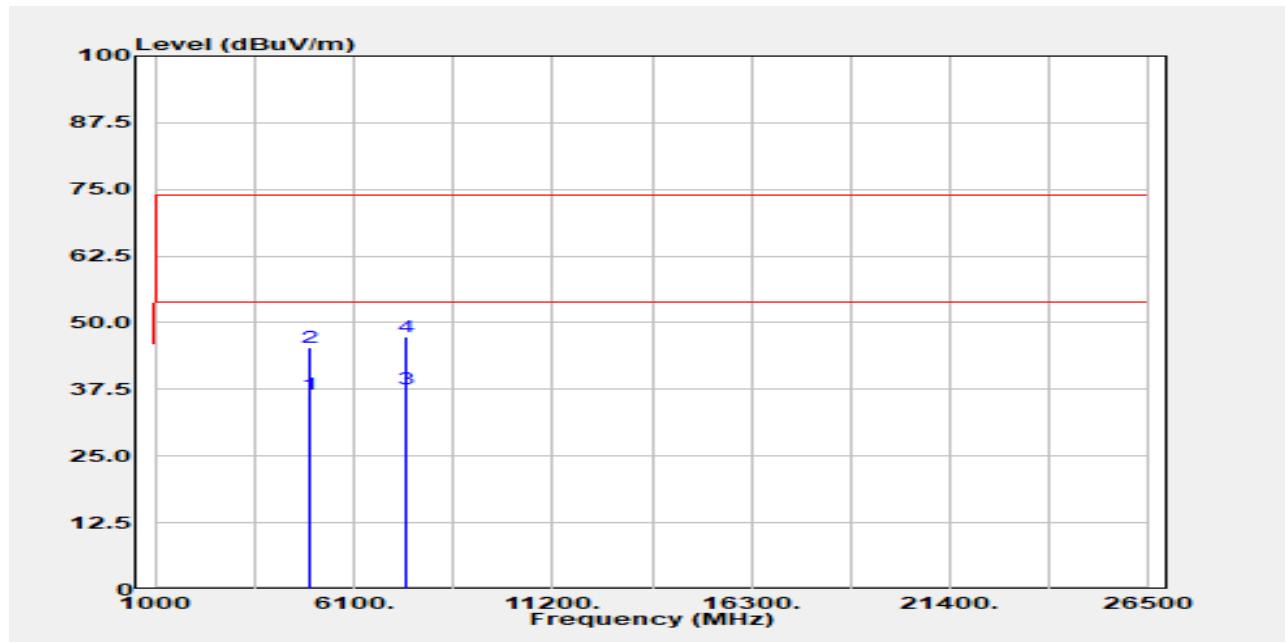
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Report Number :TERF2503000903E2 Test Site :SAC G
Operation Mode :BLE 2M Test Date :2025-05-29
Test Frequency :2480 MHz Temp./Humi. :24.1°C/65%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	32.47	4.24	36.71	54.00	-17.29
4960.00	Peak	41.24	4.24	45.48	74.00	-28.52
7440.00	Average	28.59	8.92	37.51	54.00	-16.49
7440.00	Peak	38.42	8.92	47.34	74.00	-26.66

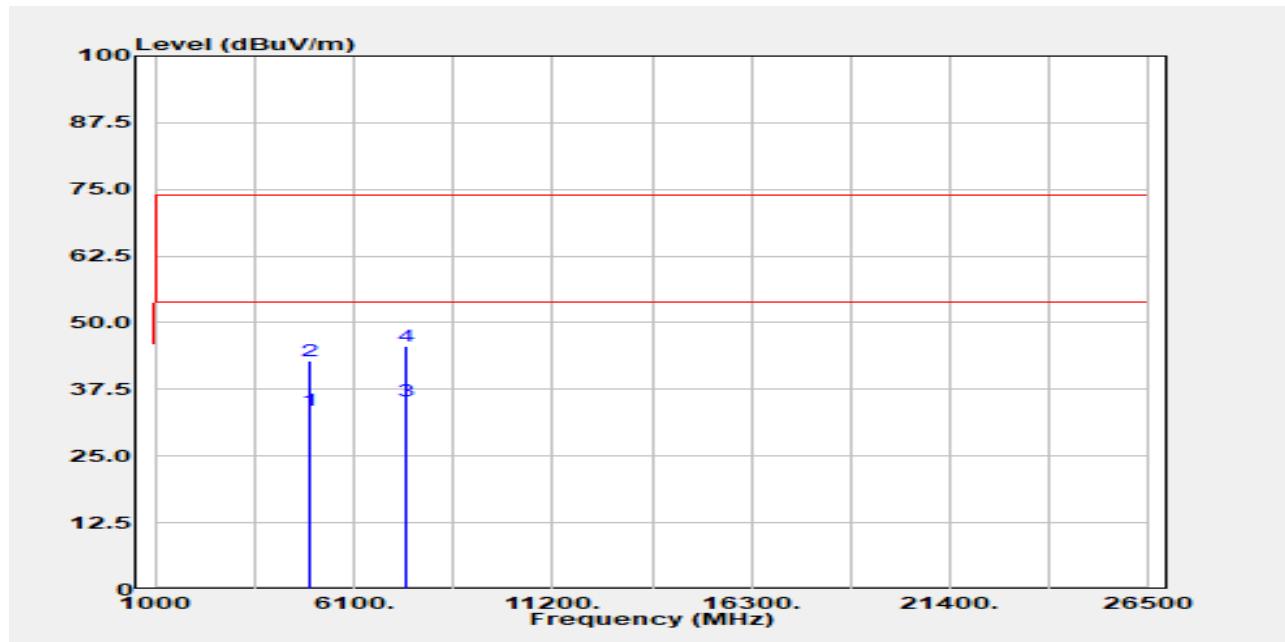
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Report Number	:TERF2503000903E2	Test Site	:SAC G
Operation Mode	:BLE 2M	Test Date	:2025-05-29
Test Frequency	:2480 MHz	Temp./Humi.	:24.1°C/65%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	29.44	4.24	33.68	54.00	-20.32
4960.00	Peak	38.65	4.24	42.89	74.00	-31.11
7440.00	Average	26.50	8.92	35.42	54.00	-18.58
7440.00	Peak	36.72	8.92	45.64	74.00	-28.36

~ End of Report ~

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