

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Module
Applicant: HOKUYO AUTOMATIC CO.,LTD.
Higobashi Union Building 3F, 1-9-6 Edobori, Nishi-ku
Osaka-shi, Osaka 550-0002 Japan
Manufacturer: HOKUYO AUTOMATIC CO., LTD.
Higobashi Union Building 3F, 1-9-6 Edobori, Nishi-ku
Osaka-shi, Osaka 550-0002 Japan
Brand Name: HOKUYO
Model No.: DM-RF01
Report Number: TERF2511003930E2
FCC ID 2BTNJ-DM-RF01
Date of EUT Received: April 17, 2025
Date of Test: November 24, 2025~November 26, 2025
Issue Date: December 18, 2025

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 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
TERF2511003930E2	00	Original	December 18, 2025	Yuri Tsai	

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	Module
Brand Name:	HOKUYO
Model No.:	DM-RF01
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	N/A
Power Supply:	5 Vdc
Test Software (Name/Version)	jupyter lab/4.3.6

1.2 RF Specification

Radio Technology:	SRD 2.4G
Frequency Range:	2404 – 2476MHz
Channel number:	73 channels
Modulation type:	GFSK
Transmit Power:	9.85 dBm

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1.3 Antenna Designation

Internal Antenna:

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Split ring	2402~2480	1.50

External Antenna:

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	2402~2480	4.59

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. 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.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.4 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
4	2404	24	2424	44	2444	64	2464
5	2405	25	2425	45	2445	65	2465
6	2406	26	2426	46	2446	66	2466
7	2407	27	2427	47	2447	67	2467
8	2408	28	2428	48	2448	68	2468
9	2409	29	2429	49	2449	69	2469
10	2410	30	2430	50	2450	70	2470
11	2411	31	2431	51	2451	71	2471
12	2412	32	2432	52	2452	72	2472
13	2413	33	2433	53	2453	73	2473
14	2414	34	2434	54	2454	74	2474
15	2415	35	2435	55	2455	75	2475
16	2416	36	2436	56	2456	76	2476
17	2417	37	2437	57	2457	-	-
18	2418	38	2438	58	2458	-	-
19	2419	39	2439	59	2459	-	-
20	2420	40	2440	60	2460	-	-
21	2421	41	2441	61	2461	*Note: Channel is defined by test tool	
22	2422	42	2442	62	2462		
23	2423	43	2443	63	2463		

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1.5 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. 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.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
SRD2.4G	4 to 76	4,40,76	GFSK	1

TRANSMIT RADIATED EMISSION TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
SRD2.4G	2404 to 2476	2404,2440,2476	GFSK

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	N
§15.247(b) (3)	Peak Output Power	Compliant	
§15.247(a)(2)	Emission Bandwidth	Compliant	
§15.205 §15.209 §15.247(d)	Out of Band Emission	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.247(e)	Peak Power Density	Compliant	
§15.203	Antenna Requirement	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 TERF2504001409ER.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2020.

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2.2 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		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 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Temperature:	20.8~21.7	°C	Relative Humidity:	50~62	%
Test site	Conducted F		Test Start:	04/28/2025	
Test Engineer:	Willy Jiang		Test Done:	05/29/2025	

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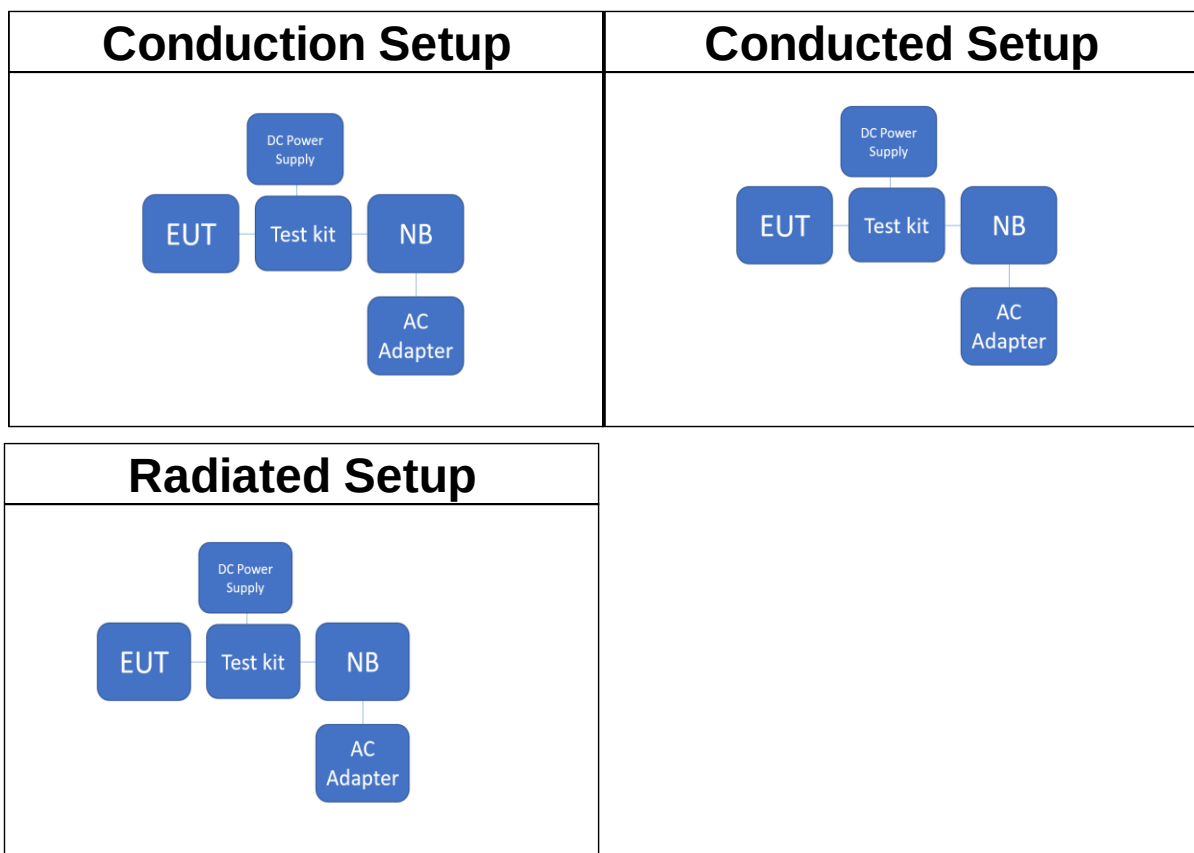
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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. 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.

3.2 Diagrams



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3.3 List

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)
Test cable	FTDI Chip	TTL-232R-3V3	N/A	N/A	N/A
Adapter	Fujitsu	A13-065N2A	19Z808JB03	N/A	N/A
Notebook	Fujitsu	FMVNP7TE	R2Y00022	N/A	N/A

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test cable	FTDI Chip	TTL-232R-3V3	N/A	N/A	N/A
MMCX to RP-SMA Cable	Te Connectivity	2505470-1	N/A	N/A	N/A
Notebook	FUJITSU	FMVNP7TE	R2Y00022	N/A	N/A
AC Adapter	FUJITSU	A13-065N2A	19Z808JB03	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)
Test cable	FTDI Chip	TTL-232R-3V3	N/A	N/A	N/A
MMCX to RP-SMA Cable	Te Connectivity	2505470-1	N/A	N/A	N/A
Adapter	Fujitsu	A13-065N2A	19Z808JB03	N/A	N/A
Notebook	Fujitsu	FMVNP7TE	R2Y00022	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF04	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF12	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF38	11/14/2024	11/13/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/14/2024	08/13/2025
Power Meter	Anritsu	ML2496A	2138005	09/25/2024	09/24/2025
Power Sensor	Anritsu	MA2411B	1911395	09/25/2024	09/24/2025
Power Sensor	Anritsu	MA2411B	1911396	09/25/2024	09/24/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 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+SUCOFLEX100+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
DC Power Supply	Gwinstek	GPC-3060D	GEW925544	03/31/2025	03/30/2026
High Pass Filter	WI	WHKX10-2624-3200-18000-80SS	RF176	11/14/2024	11/13/2025
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	N9010B	MY59071574	06/28/2024	06/27/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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4.3 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
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/03/2025	01/02/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/30/2025	06/29/2026
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

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

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

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

5.2 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.

5.3 Maximum Output Power

5.3.1 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.

Note:

when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

5.4 Maximum Power Spectral Density

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

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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5.6 Unwanted Emissions

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limit as below.

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.

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.

5.7 AC Power Line Conducted Emission

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

Frequency range MHz	Limits (dBuV)	
	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.

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5.8 Antenna Requirement

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

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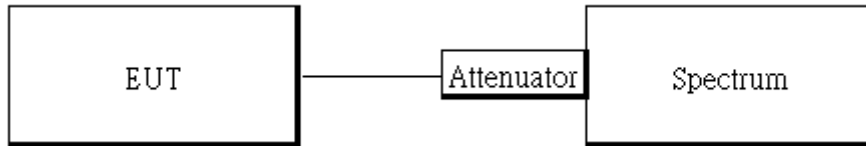
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6 TEST CONFIGURATION

6.1 Emission Bandwidth



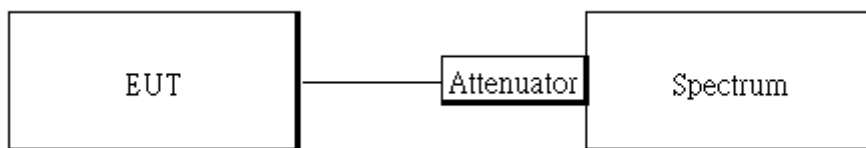
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.1.1 6dB BW measurements

1. Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz.,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold.
2. Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB
3. Repeat above procedures until all test default channel is completed.

6.2 Maximum Output Power

6.2.1 Duty Cycle

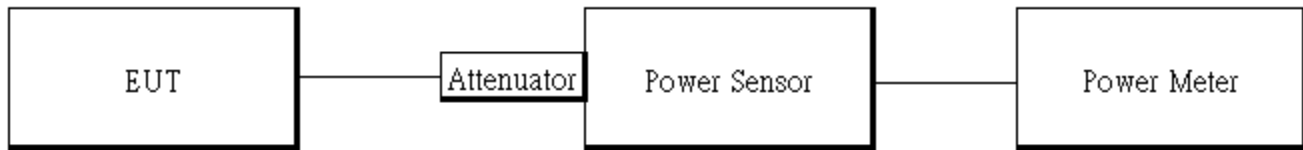


1. Place the EUT on the table and set it in transmitting mode.
2. Set the spectrum analyzer as
Center Frequency = fundamental frequency
RBW = 8MHz,
VBW = 8MHz,
Detector = Peak
span = Zero
3. Allow trace to fully stabilize.
4. Use the delta marker function to determine the ON and OFF times.

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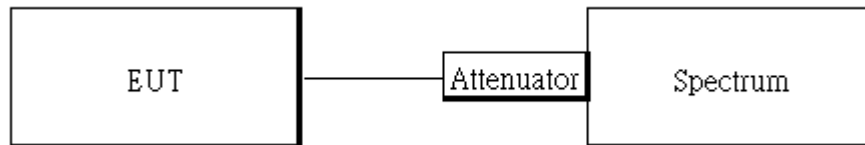
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6.2.2 Output Power



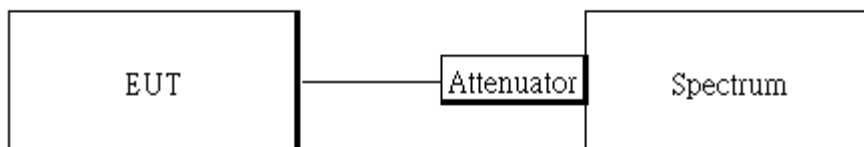
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
3. Record the max. Reading as observed from Power Meter.
4. Repeat above procedures until all test default channel measured was complete.

6.3 Maximum Power Spectral Density



1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span > 1.5 times the DTS channel bandwidth.
3. Set the RBW = 3 kHz. & the VBW = 10 kHz
4. Detector = peak
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW = 100kHz & VBW = 300 kHz.
4. Detector = peak

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5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge:

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

6.4.3 Conducted Spurious Emission:

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

6.5 Unwanted Emission

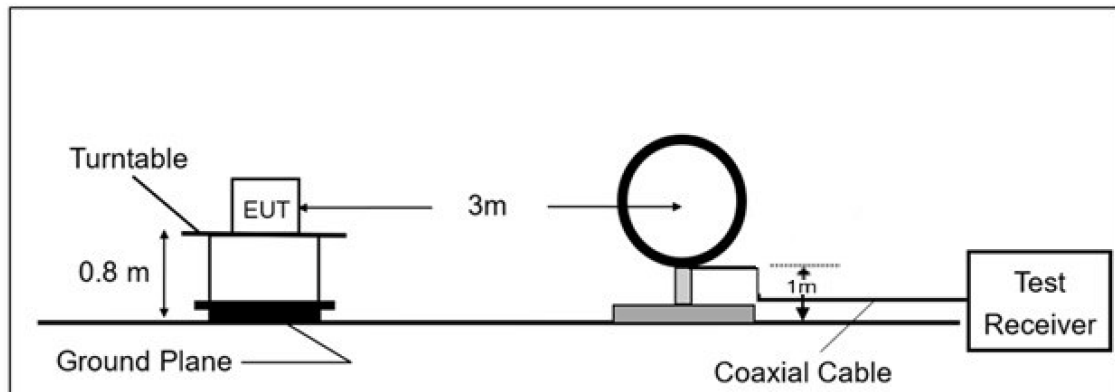
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

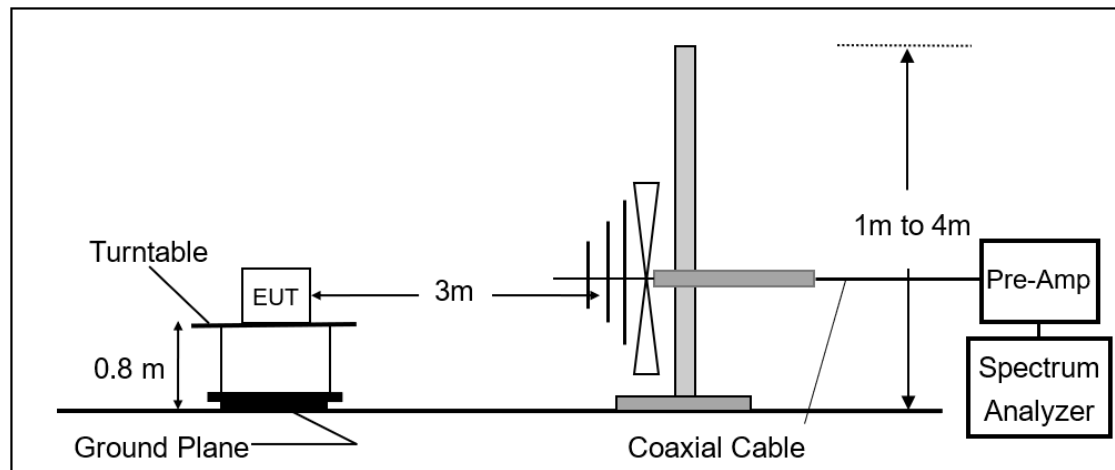
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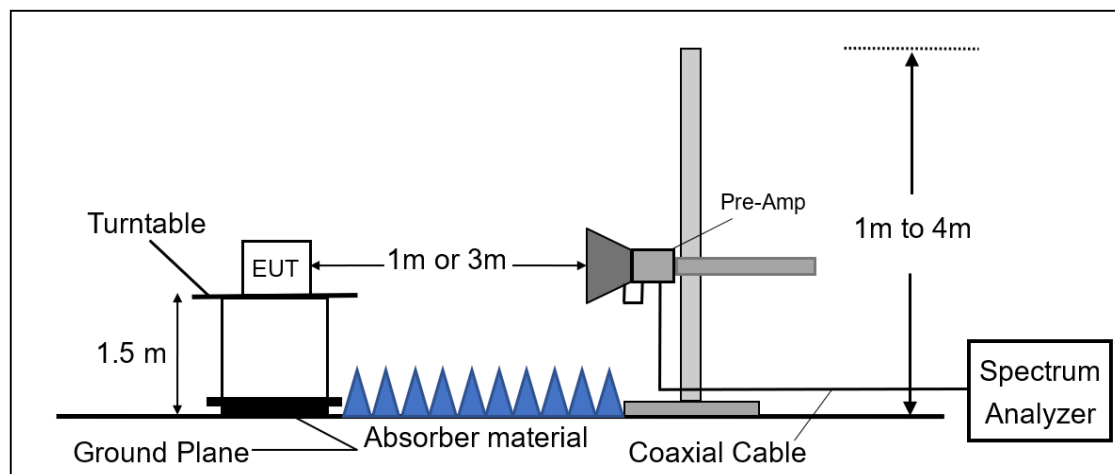
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
 2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
 3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
 4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
 5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
 6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS for Average Emission measurements at frequency above 1 GHz **when D ≥ 98%**.
 8. Set the spectrum analyzer as RBW=1 MHz, VBW ≥ 1/T, Detector= Peak **when D < 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.
- Note:** The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits, and hence not reported.

6.5.1 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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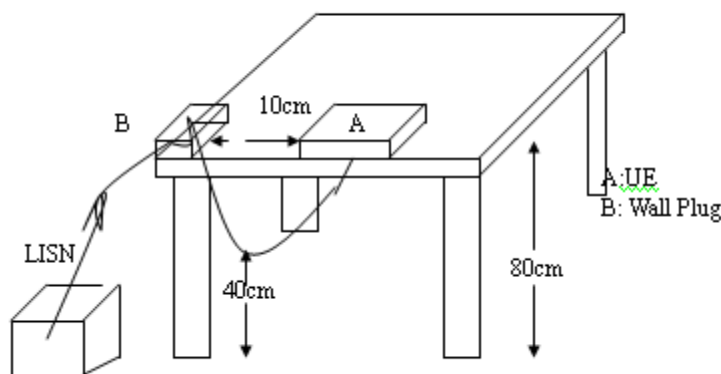
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$$FS = RA + AF + CL - AG$$

Where FS = Field Strength($\text{dB}\mu\text{V}/\text{m}$) CL = Cable Attenuation Factor (Cable Loss) (dB)
 RA = Reading Amplitude($\text{dB}\mu\text{V}$) AG = Amplifier Gain (dB)
 AF = Antenna Factor ($\text{dB}\mu\text{V}/\text{m}$)

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

6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided $50 \mu\text{H} / 50 \text{ ohm}$ coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

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

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 6dB BW measurements

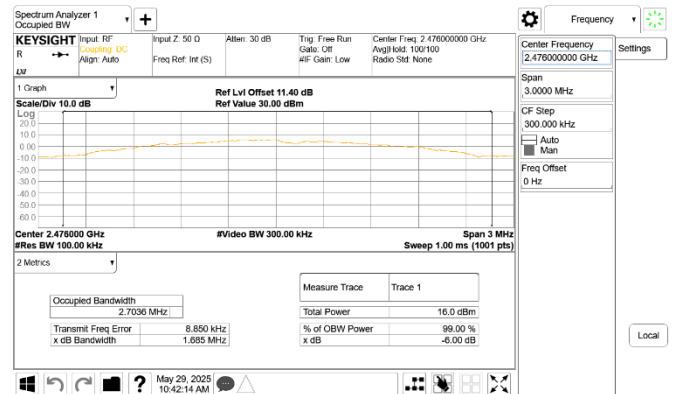
SRD mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2404	1.548	≥ 0.5	PASS
2440	1.587	≥ 0.5	PASS
2476	1.685	≥ 0.5	PASS

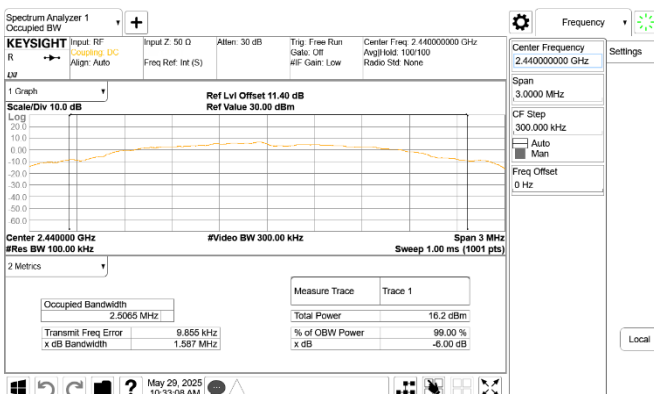
SRD_LowCH04-2404



SRD_HighCH76-2476



SRD_MidCH40-2440



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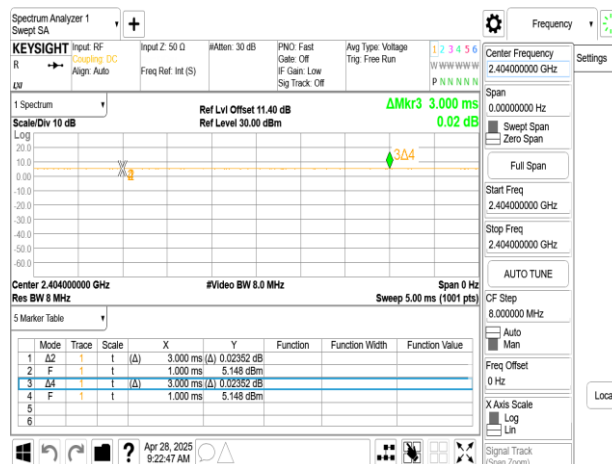
7.2 Duty Factor:

Duty_Cycle_SRD_2404MHz

Duty Cycle

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
SRD	100.00	0.00	0.00	0.01

Duty_Cycle_SRD_LowCH04-2404



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7.3 Maximum Output Power

7.3.1 Peak & Avg

SRD mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
4	2404	5	9.85	30
40	2440	5	9.83	30
76	2476	5	9.62	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
4	2404	5	9.79	30
40	2440	5	9.75	30
76	2476	5	9.54	30

***Note:**

1. Measured by power meter, cable loss 11.4 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

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7.4 Maximum Power Spectral Density

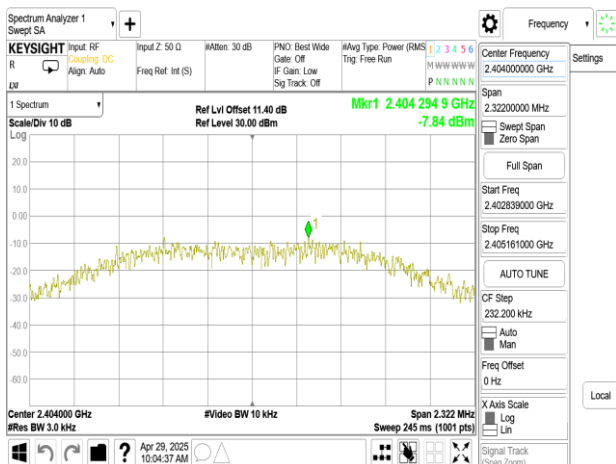
SRD mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2404	-7.84	8	PASS
2440	-7.66	8	PASS
2476	-7.09	8	PASS

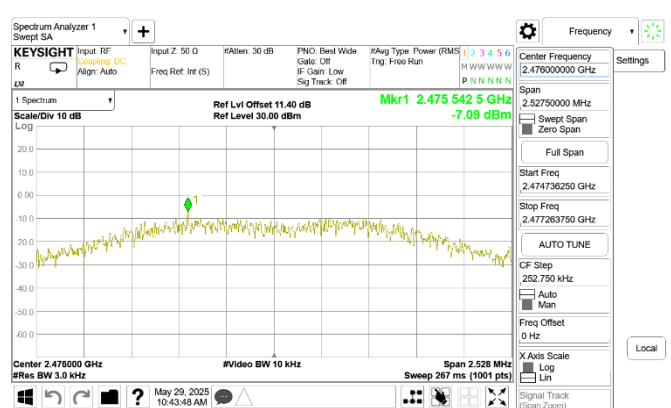
***Note:**

1.cable loss as 11.4dB that offsets in the spectrum

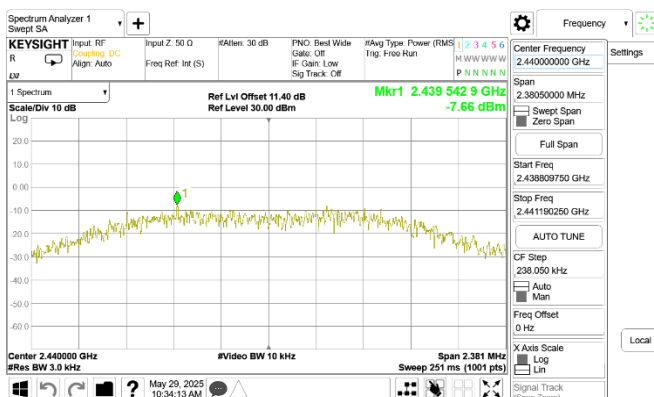
SRD_LowCH04-2404



SRD_HighCH76-2476



SRD_MidCH40-2440



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7.5 Out of Band Emission

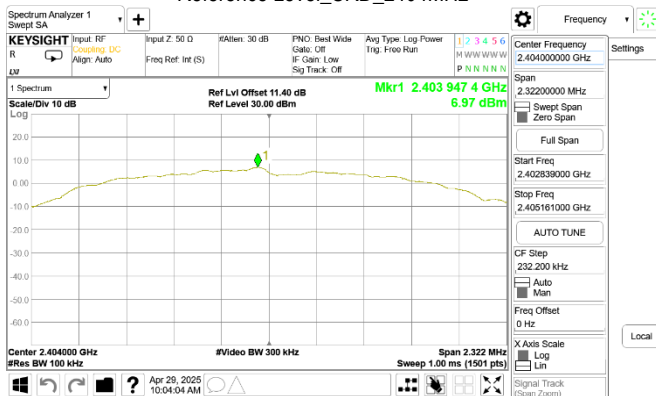
SRD_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2404	6.97	-13.03
2440	6.58	-13.42
2476	5.88	-14.12

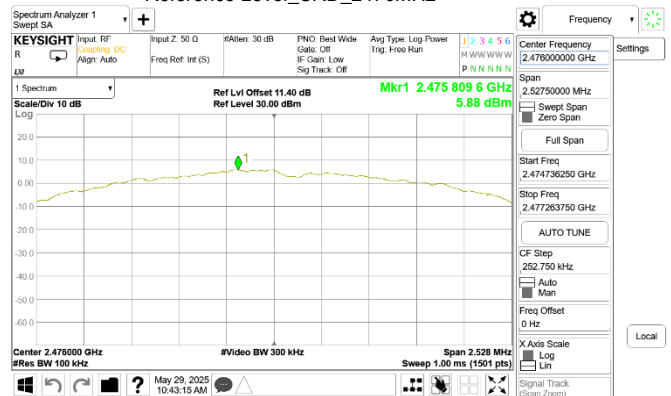
***Note:**

- 1.cable loss as 11.4dB that offsets in the spectrum
- 2.Refer to next page for plots.

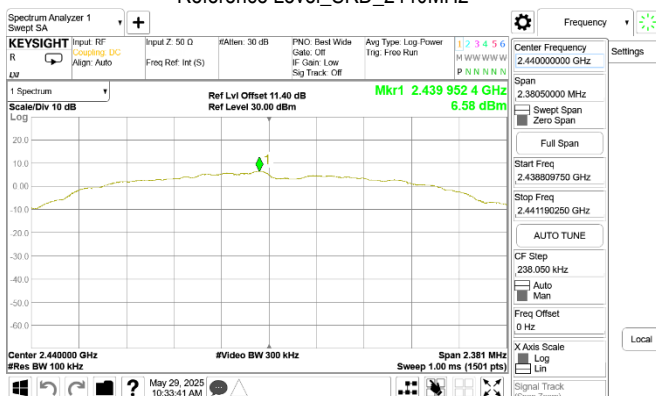
Reference Level_SRD_2404MHz



Reference Level_SRD_2476MHz



Reference Level_SRD_2440MHz

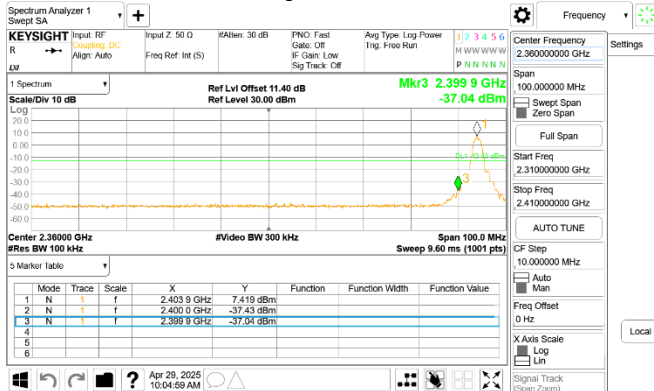


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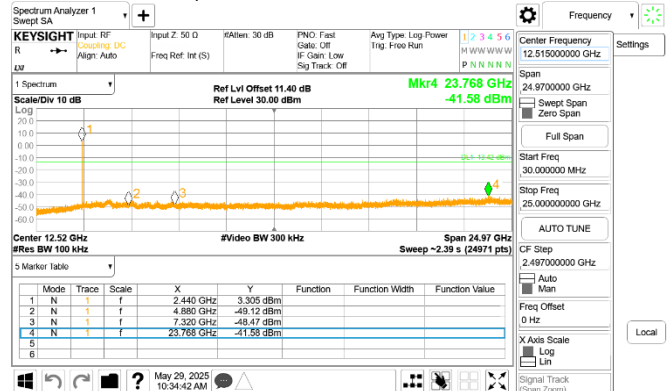
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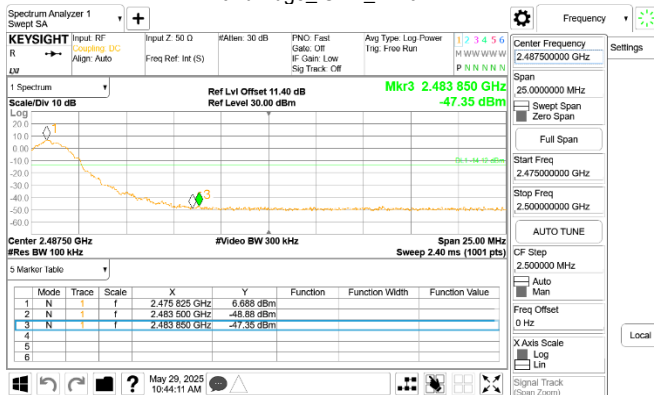
Band Edge_SRD_2404MHz



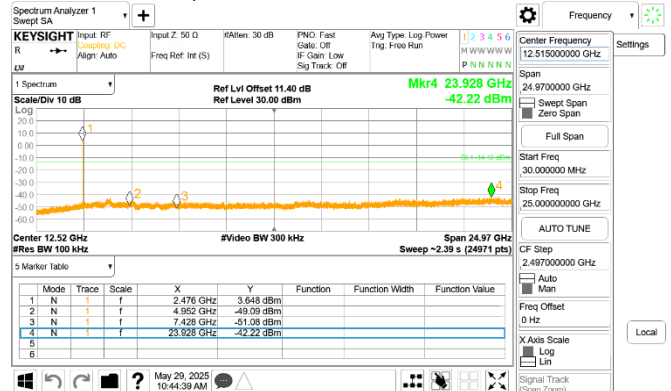
Spurious Emission_SRD_2440MHz



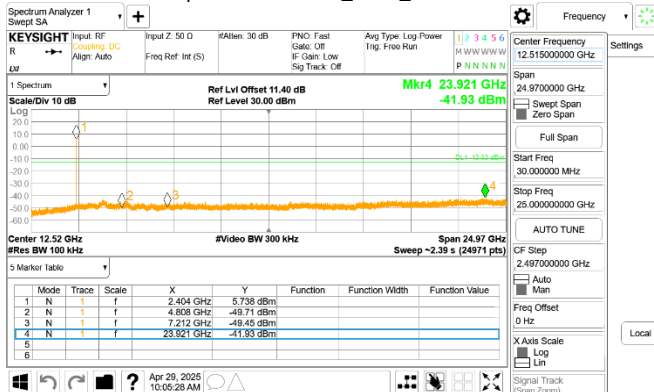
Band Edge_SRD_2476MHz



Spurious Emission_SRD_2476MHz



Spurious Emission_SRD_2404MHz



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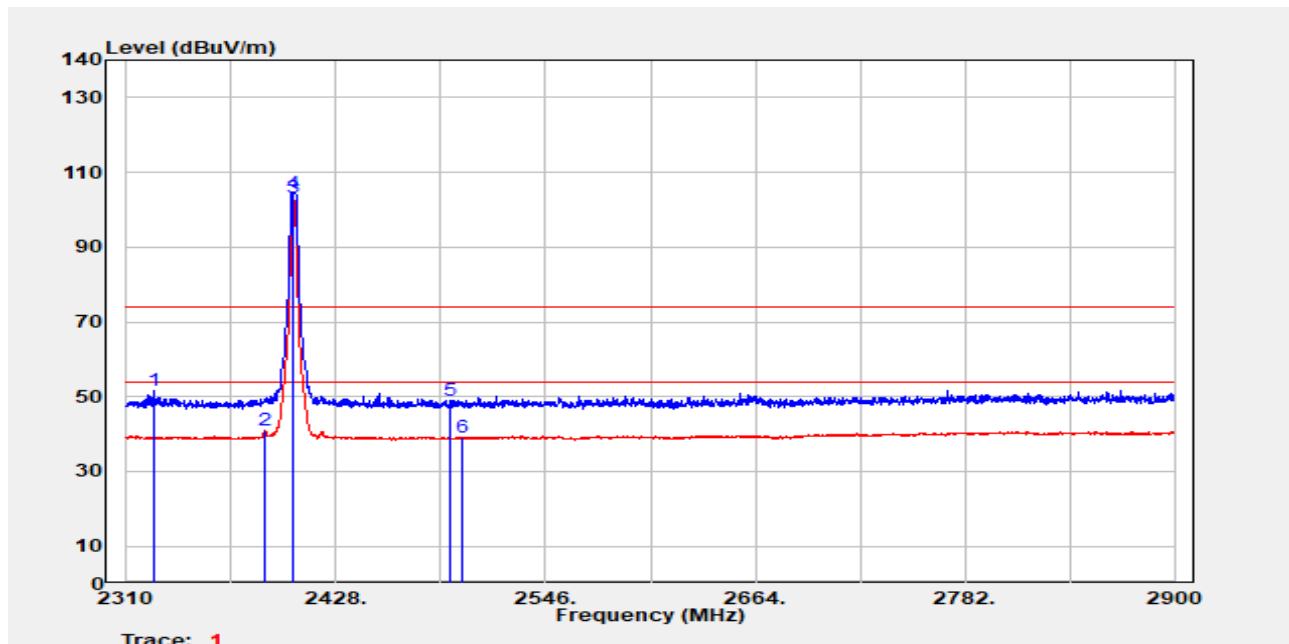
7.6 Unwanted Emissions

7.6.1 Radiated Band Edge Measurement Result

External antenna

Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2404 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



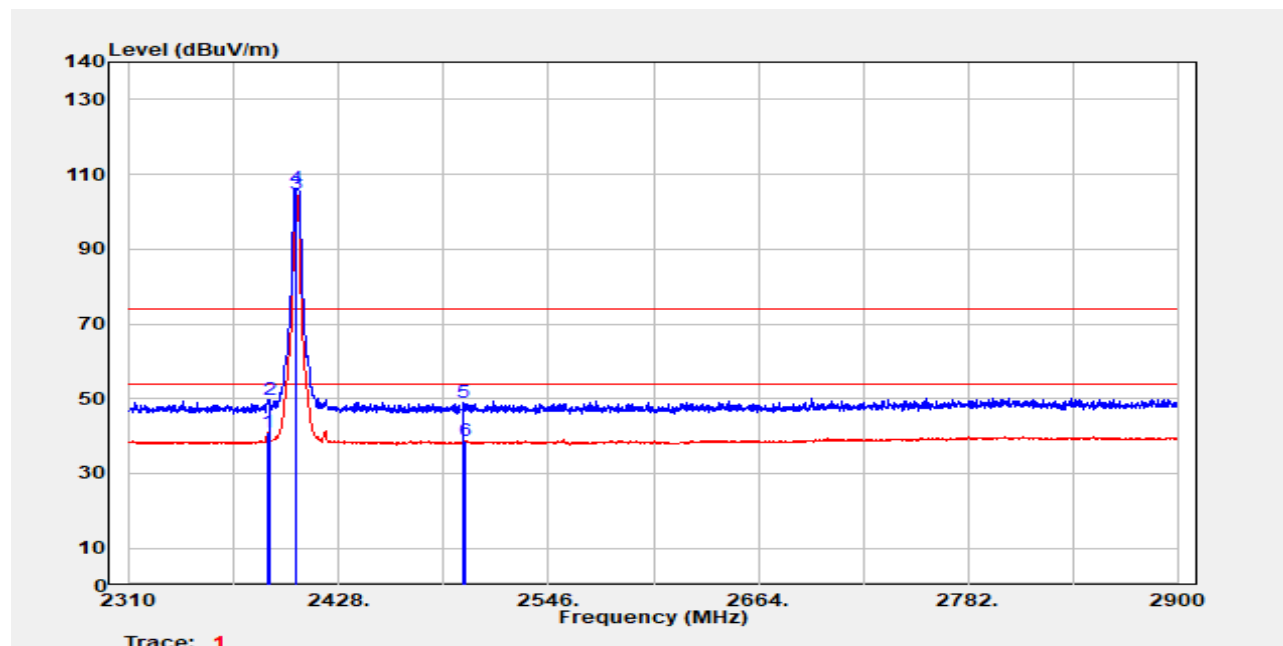
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2325.54	Peak	54.90	-3.26	51.64	74.00	-22.36
2388.10	Average	44.24	-3.26	40.98	54.00	-13.02
2404.00	Average	106.46	-3.37	103.09	-	-
2404.00	Peak	107.87	-3.37	104.50	-	-
2492.57	Peak	52.46	-3.34	49.12	74.00	-24.88
2499.26	Average	42.57	-3.34	39.23	54.00	-14.77

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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2404 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2388.10	Average	44.22	-3.26	40.96	54.00	-13.04
2388.69	Peak	53.13	-3.25	49.88	74.00	-24.12
2404.00	Average	108.06	-3.37	104.69	-	-
2404.00	Peak	109.48	-3.37	106.11	-	-
2498.08	Peak	52.30	-3.34	48.96	74.00	-25.04
2499.45	Average	42.11	-3.34	38.77	54.00	-15.23

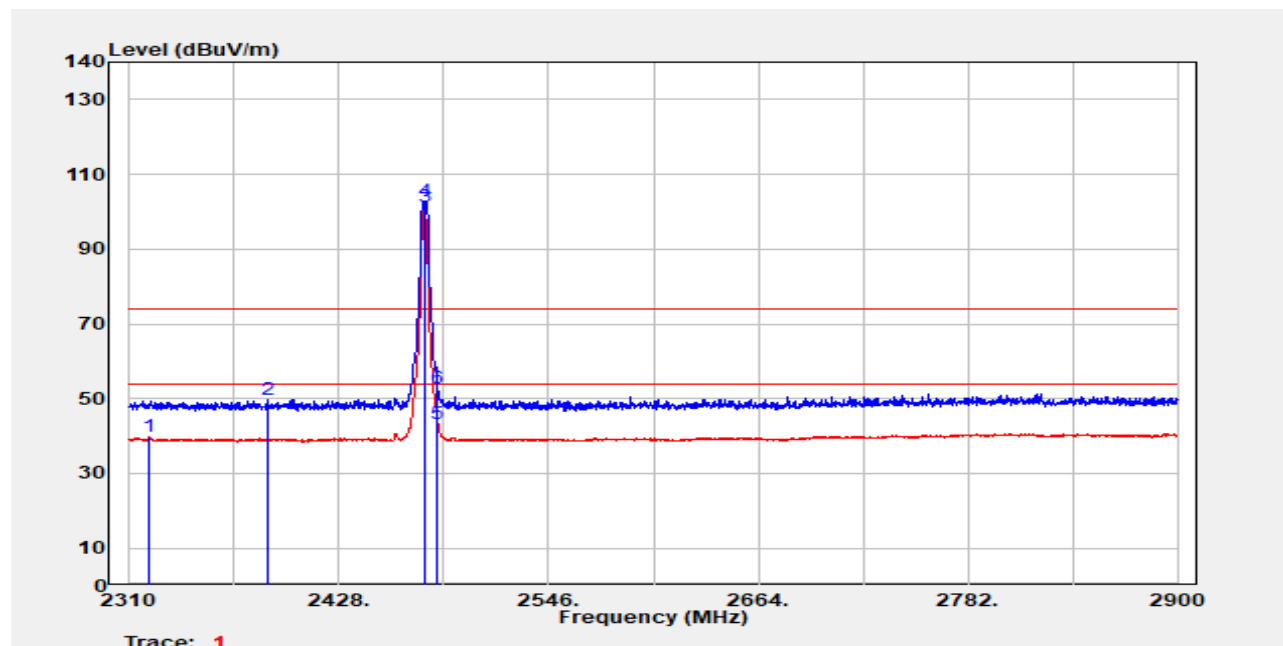
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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



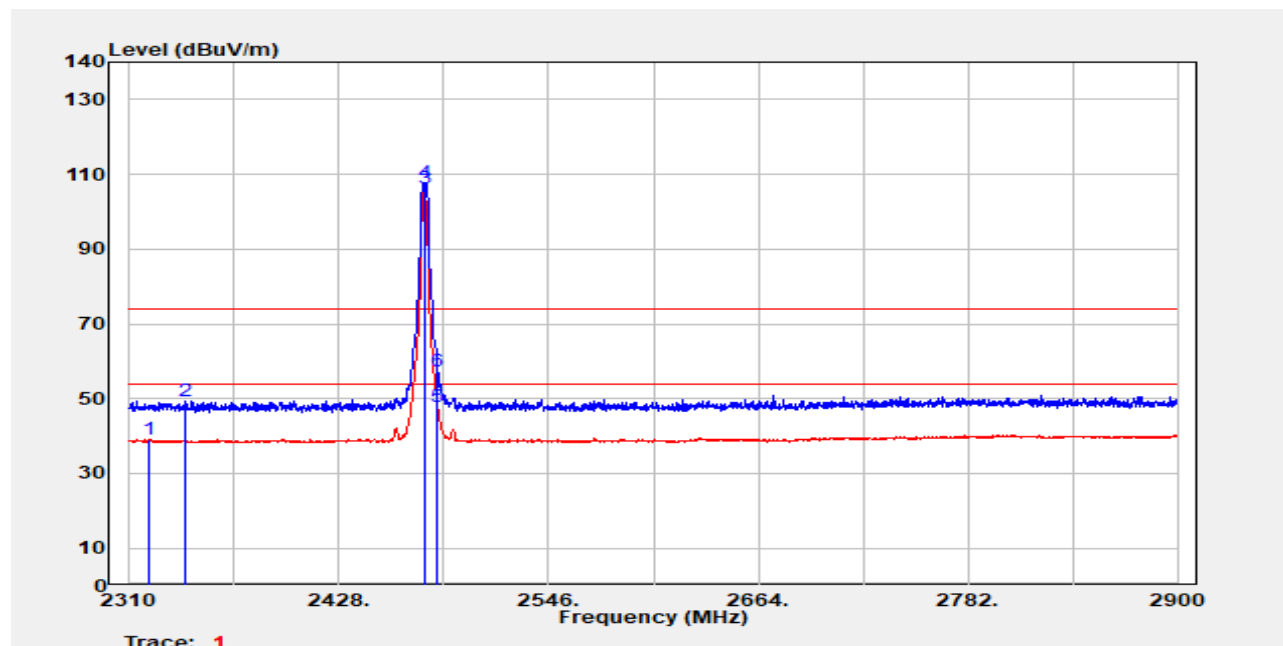
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2321.02	Average	42.94	-3.26	39.68	54.00	-14.32
2387.32	Peak	52.92	-3.27	49.65	74.00	-24.35
2476.00	Average	104.61	-3.41	101.20	-	-
2476.00	Peak	106.28	-3.41	102.87	-	-
2483.50	Average	46.65	-3.35	43.30	54.00	-10.70
2483.50	Peak	56.24	-3.35	52.89	74.00	-21.11

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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.41	Average	42.50	-3.26	39.24	54.00	-14.76
2341.48	Peak	52.47	-3.26	49.21	74.00	-24.79
2476.00	Average	109.58	-3.41	106.17	-	-
2476.00	Peak	111.22	-3.41	107.81	-	-
2483.50	Average	51.03	-3.35	47.68	54.00	-6.32
2483.50	Peak	60.68	-3.35	57.33	74.00	-16.67

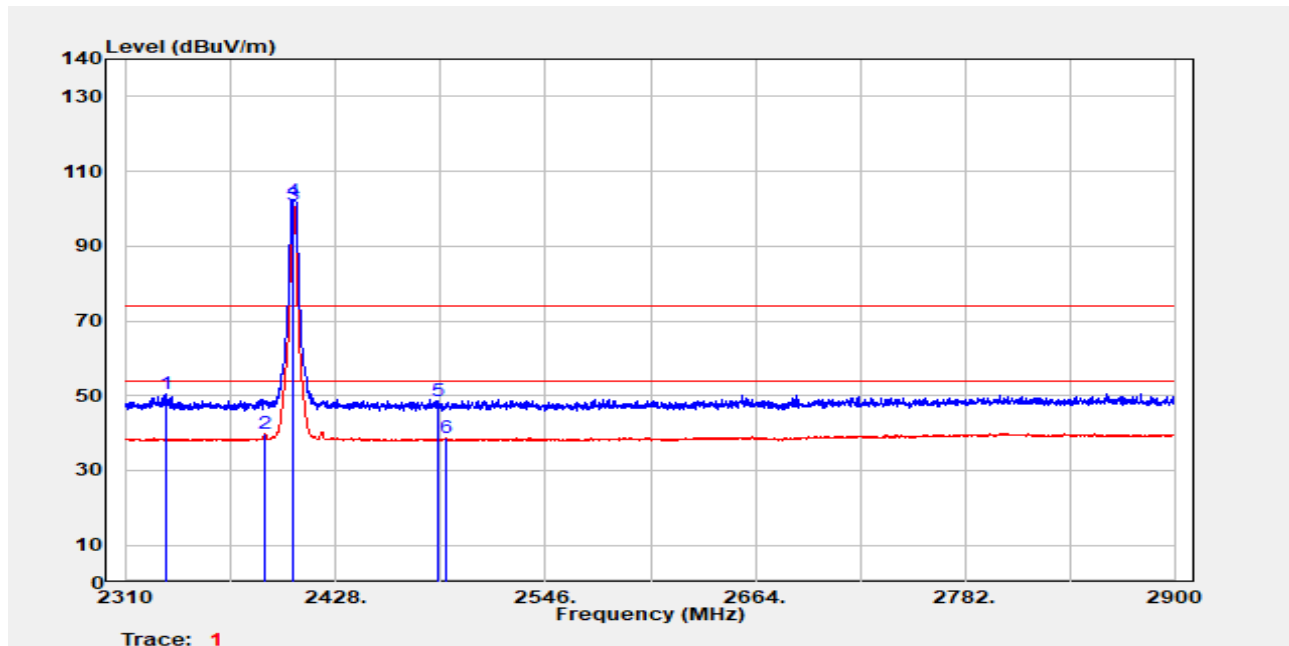
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Internal antenna

Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2404 MHz
 Test Mode : Bandedge
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2332.23	Peak	53.65	-3.26	50.39	74.00	-23.61
2387.71	Average	43.12	-3.26	39.86	54.00	-14.14
2404.00	Average	104.19	-3.37	100.82	-	-
2404.00	Peak	105.60	-3.37	102.23	-	-
2485.09	Peak	52.08	-3.36	48.72	74.00	-25.28
2490.40	Average	41.90	-3.35	38.55	54.00	-15.45

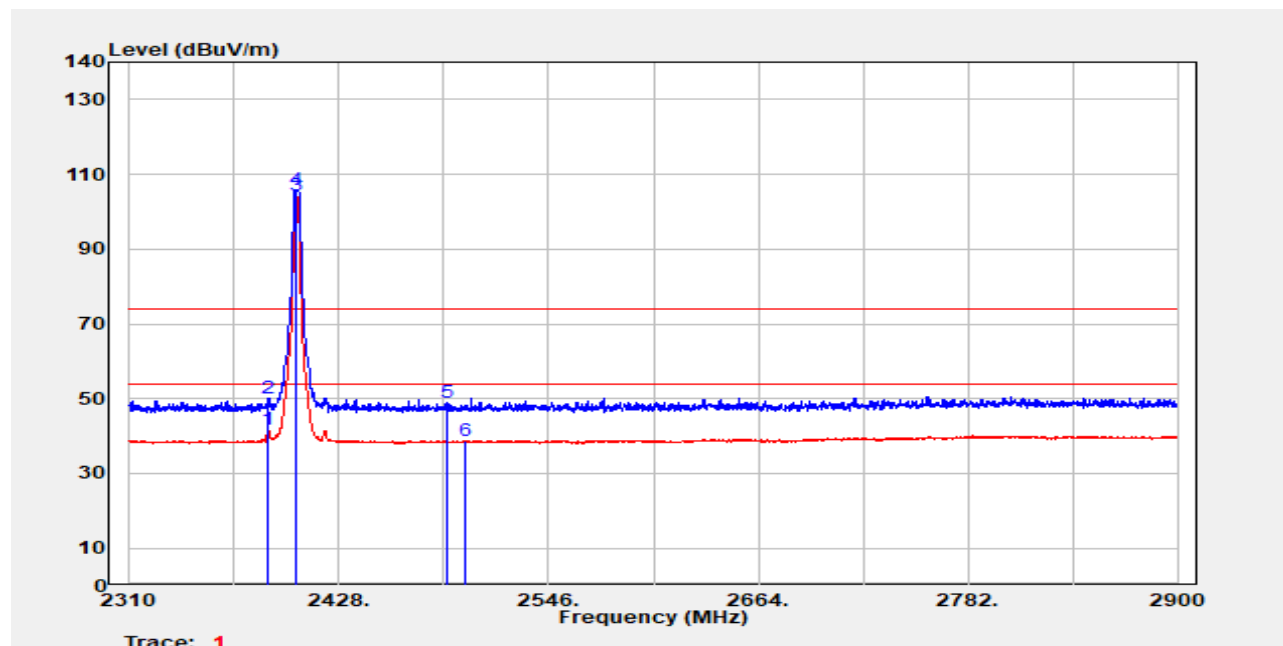
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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2404 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2388.10	Average	44.87	-3.26	41.61	54.00	-12.39
2388.30	Peak	53.31	-3.26	50.05	74.00	-23.95
2404.00	Average	107.88	-3.37	104.51	-	-
2404.00	Peak	109.31	-3.37	105.94	-	-
2488.83	Peak	52.20	-3.35	48.85	74.00	-25.15
2499.45	Average	42.01	-3.34	38.67	54.00	-15.33

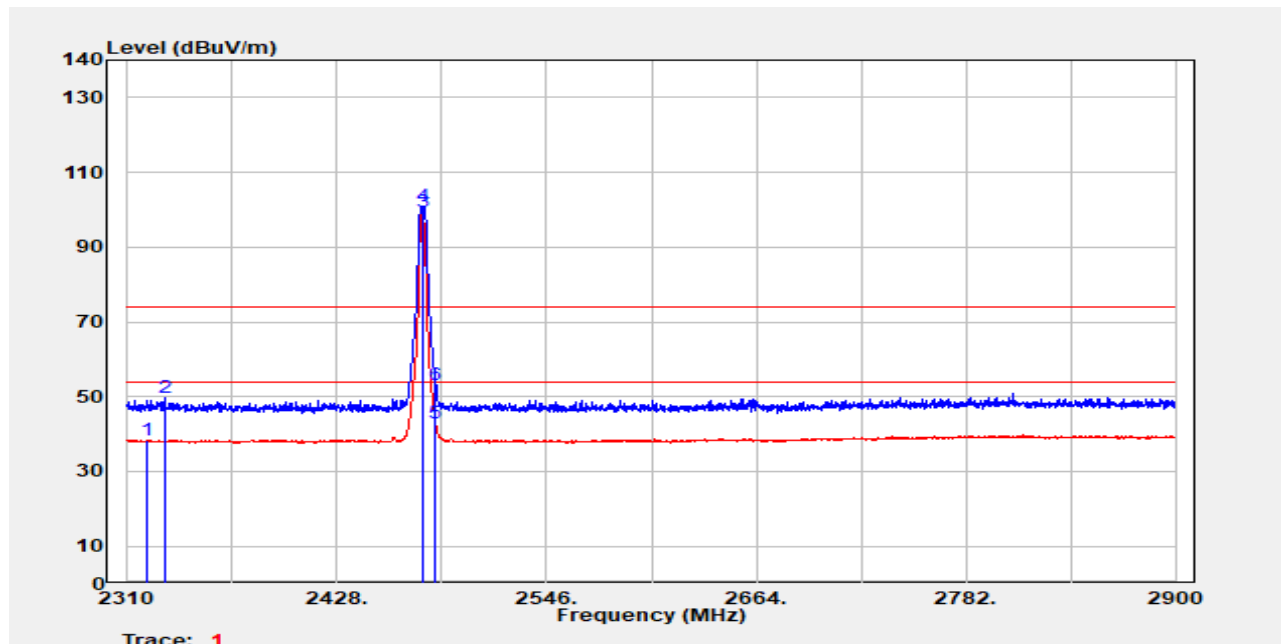
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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2320.62	Average	41.72	-3.26	38.46	54.00	-15.54
2330.85	Peak	52.94	-3.27	49.67	74.00	-24.33
2476.00	Average	102.88	-3.41	99.47	-	-
2476.00	Peak	104.35	-3.41	100.94	-	-
2483.50	Average	46.15	-3.35	42.80	54.00	-11.20
2483.50	Peak	56.62	-3.35	53.27	74.00	-20.73

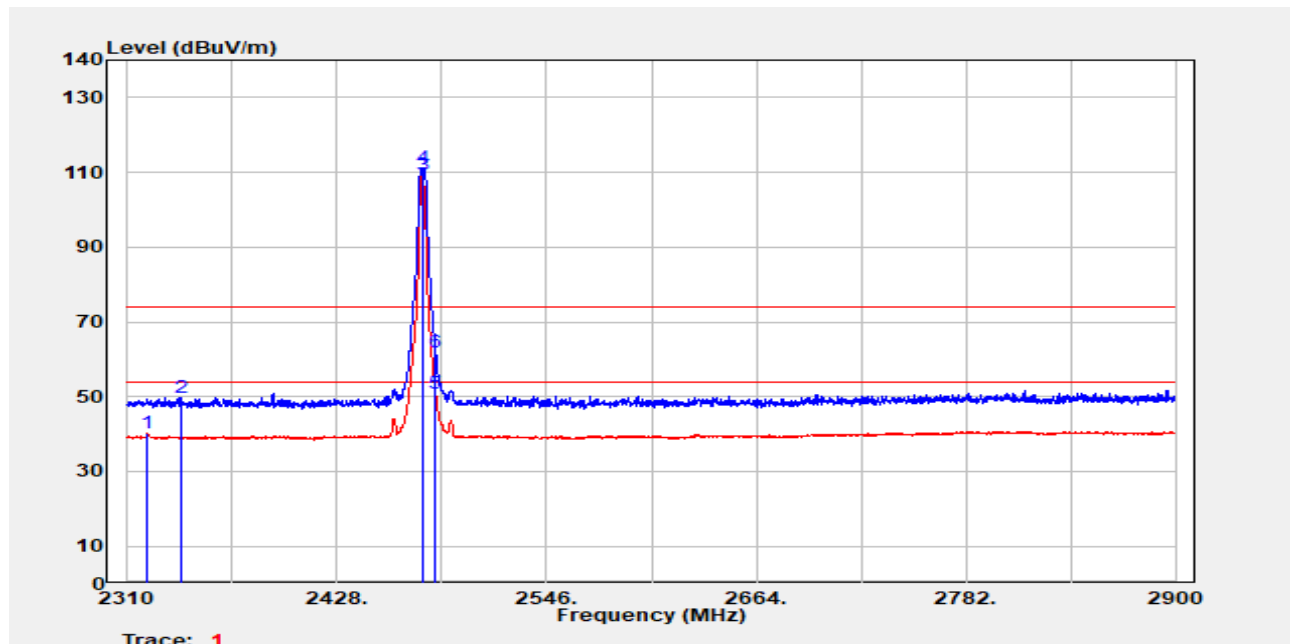
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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.21	Average	43.39	-3.26	40.13	54.00	-13.87
2340.49	Peak	53.02	-3.26	49.76	74.00	-24.24
2476.00	Average	112.80	-3.41	109.39	-	-
2476.00	Peak	114.48	-3.41	111.07	-	-
2483.50	Average	54.22	-3.35	50.87	54.00	-3.13
2483.50	Peak	65.01	-3.35	61.66	74.00	-12.34

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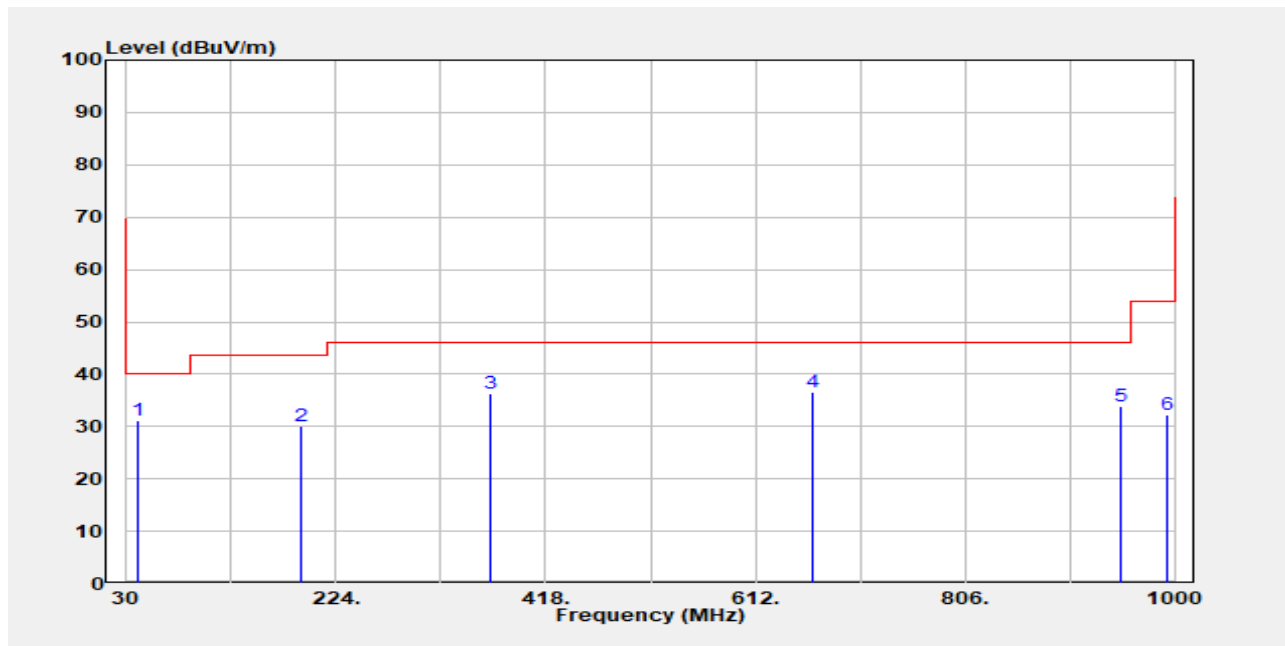
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7.6.2 Radiated Spurious Emission

External antenna

Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-02
 Temp./Humi. :22.5°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



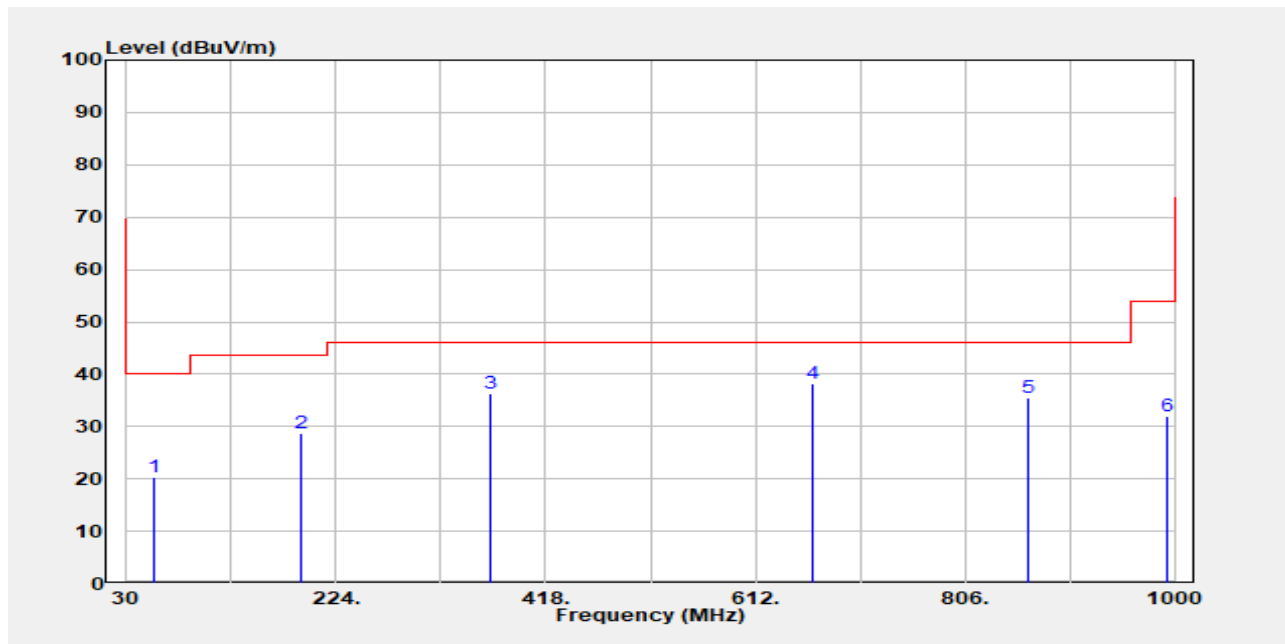
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
40.67	Peak	44.64	-13.59	31.05	40.00	-8.95
191.99	Peak	45.55	-15.40	30.15	43.50	-13.35
366.59	Peak	46.61	-10.40	36.21	46.00	-9.79
664.38	QP	40.50	-3.86	36.64	46.00	-9.36
950.53	Peak	33.15	0.67	33.82	46.00	-12.18
993.21	Peak	31.24	1.00	32.24	54.00	-21.76

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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-02
 Temp./Humi. :22.5°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



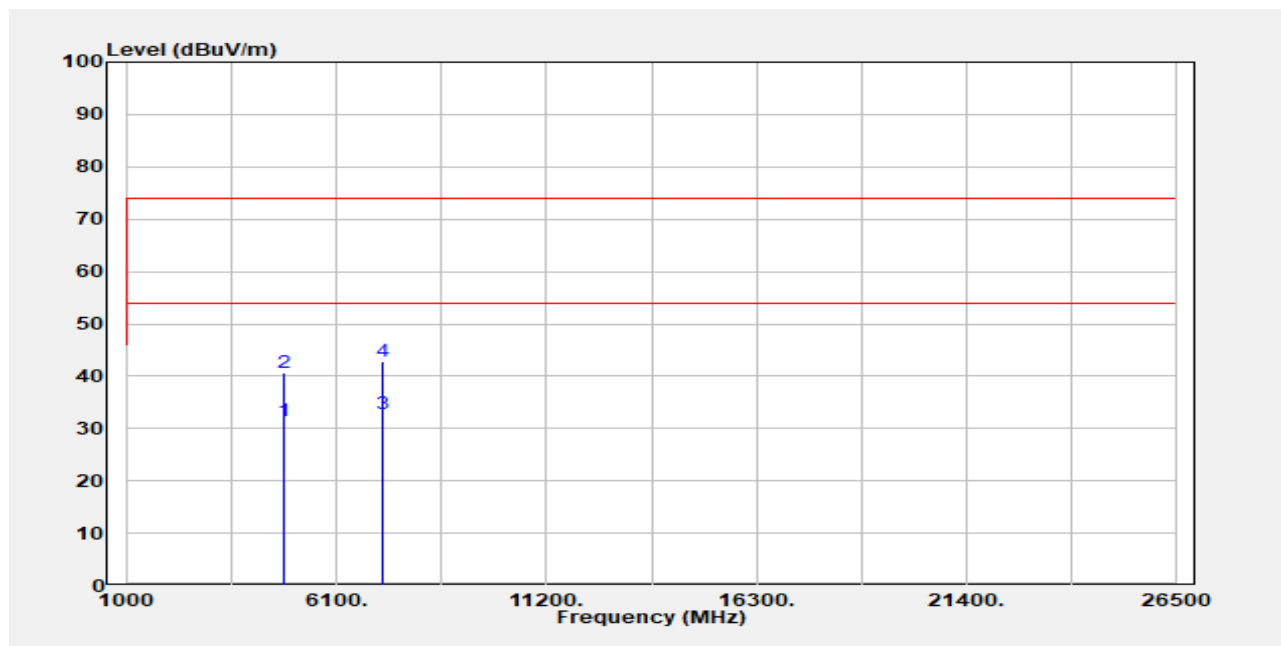
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
55.22	Peak	33.15	-12.76	20.39	40.00	-19.61
191.99	Peak	44.23	-15.40	28.83	43.50	-14.67
366.59	Peak	46.69	-10.40	36.29	46.00	-9.71
664.38	QP	42.10	-3.86	38.24	46.00	-7.76
865.17	Peak	36.26	-0.80	35.46	46.00	-10.54
994.18	Peak	31.05	1.02	32.07	54.00	-21.93

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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2404 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4808.00	Average	27.56	3.89	31.45	54.00	-22.55
4808.00	Peak	36.72	3.89	40.61	74.00	-33.39
7212.00	Average	24.35	8.32	32.67	54.00	-21.33
7212.00	Peak	34.54	8.32	42.86	74.00	-31.14

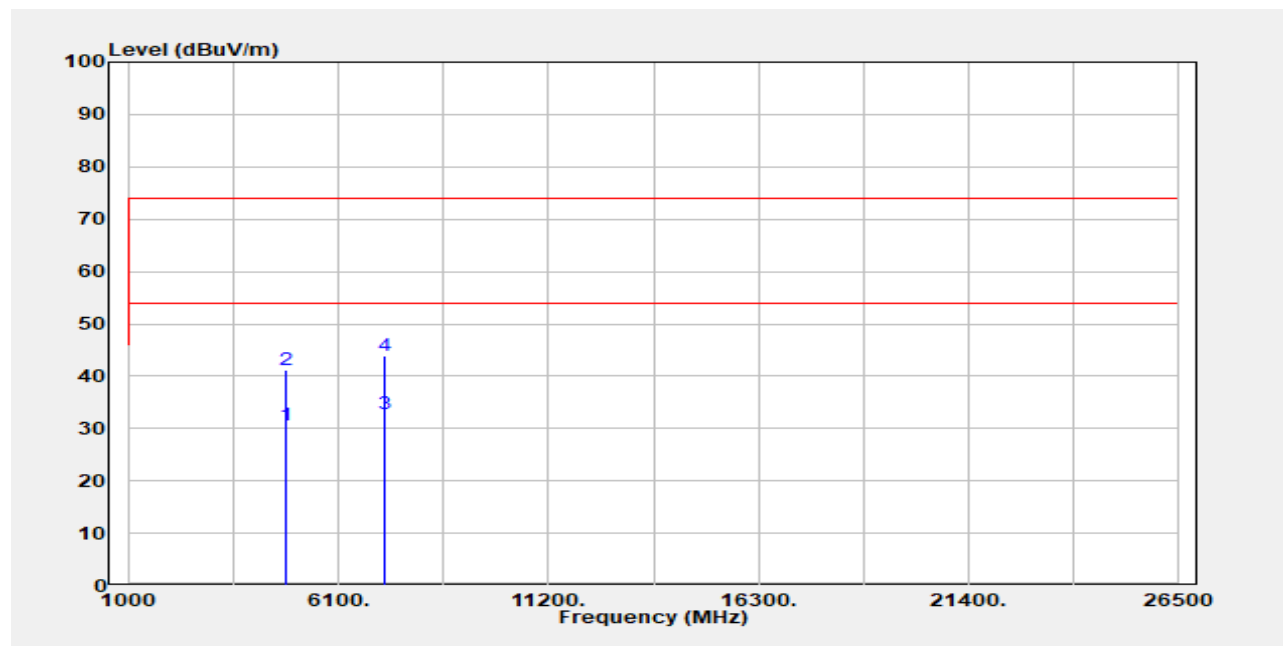
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2404 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Horizontal
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4808.00	Average	26.71	3.89	30.60	54.00	-23.40
4808.00	Peak	37.44	3.89	41.33	74.00	-32.67
7212.00	Average	24.55	8.32	32.87	54.00	-21.13
7212.00	Peak	35.61	8.32	43.93	74.00	-30.07

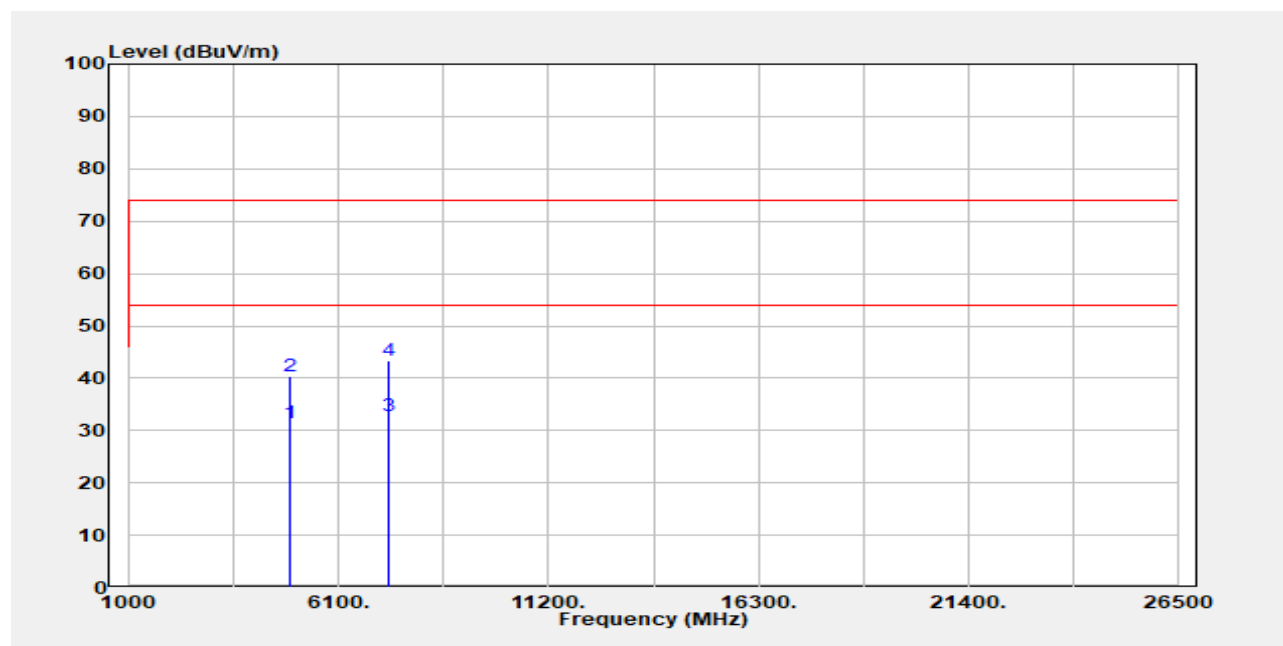
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2440 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C / 52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



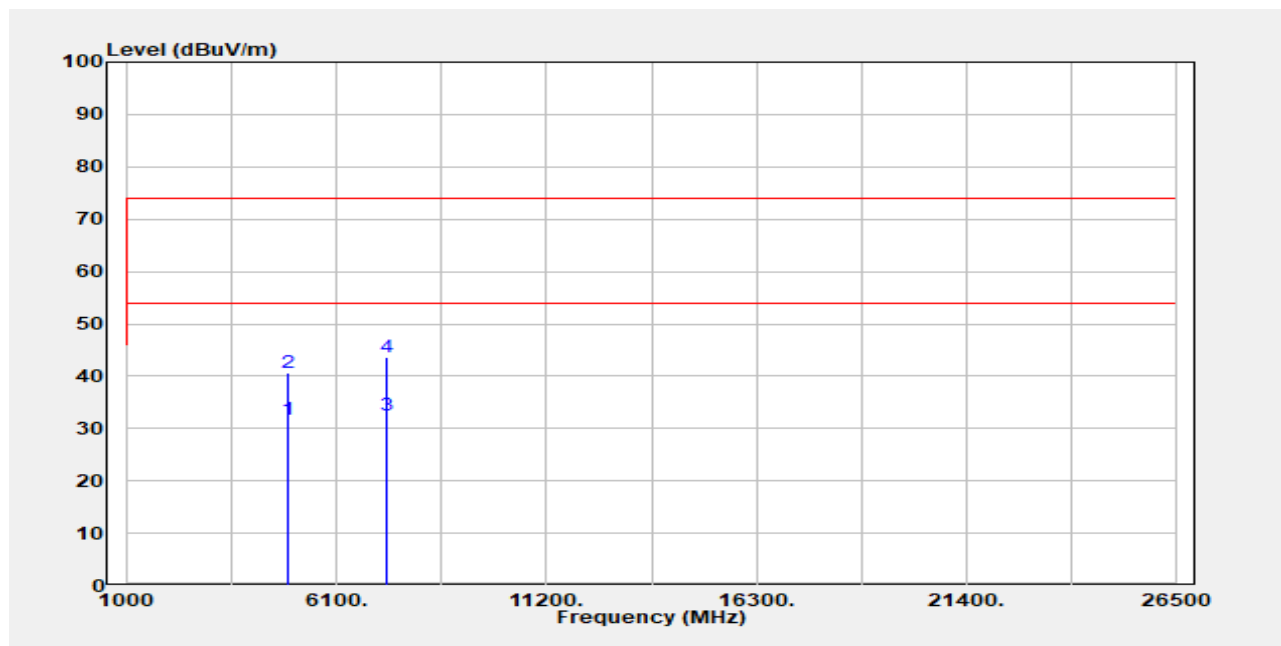
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	27.38	4.07	31.45	54.00	-22.55
4880.00	Peak	36.31	4.07	40.38	74.00	-33.62
7320.00	Average	24.57	8.31	32.88	54.00	-21.12
7320.00	Peak	35.13	8.31	43.44	74.00	-30.56

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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	27.65	4.07	31.72	54.00	-22.28
4880.00	Peak	36.45	4.07	40.52	74.00	-33.48
7320.00	Average	24.33	8.31	32.64	54.00	-21.36
7320.00	Peak	35.38	8.31	43.69	74.00	-30.31

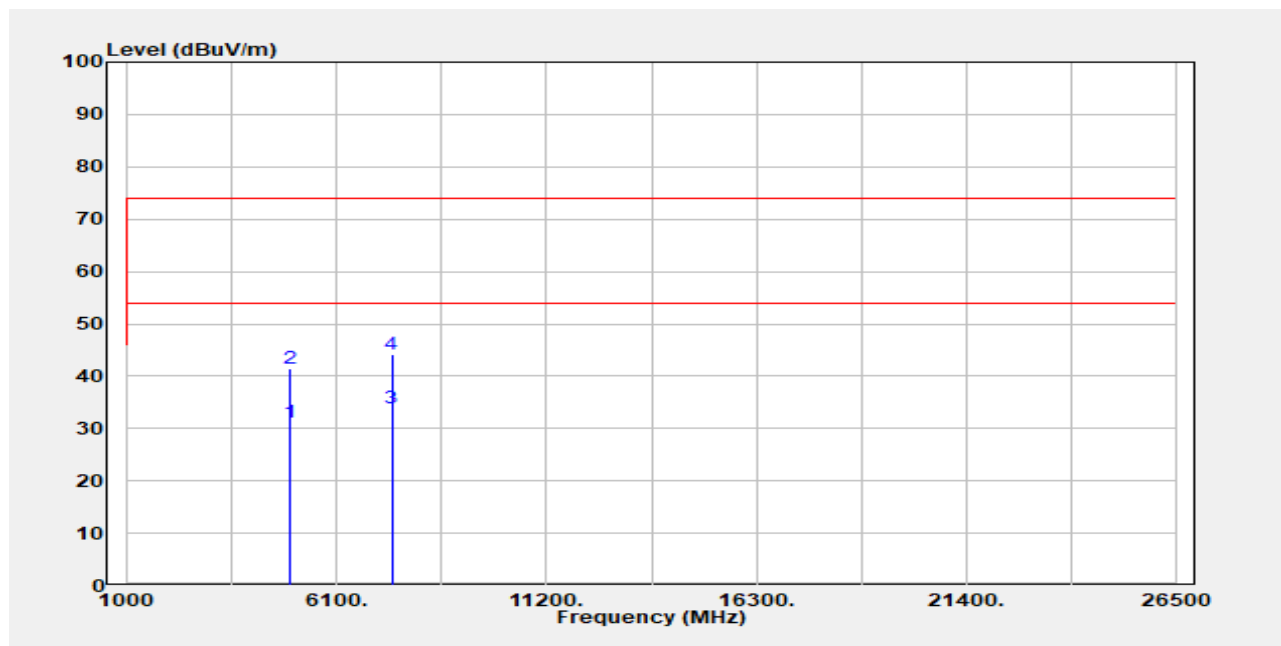
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2476 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4952.00	Average	26.93	4.23	31.16	54.00	-22.84
4952.00	Peak	37.17	4.23	41.40	74.00	-32.60
7428.00	Average	24.87	8.88	33.75	54.00	-20.25
7428.00	Peak	35.39	8.88	44.27	74.00	-29.73

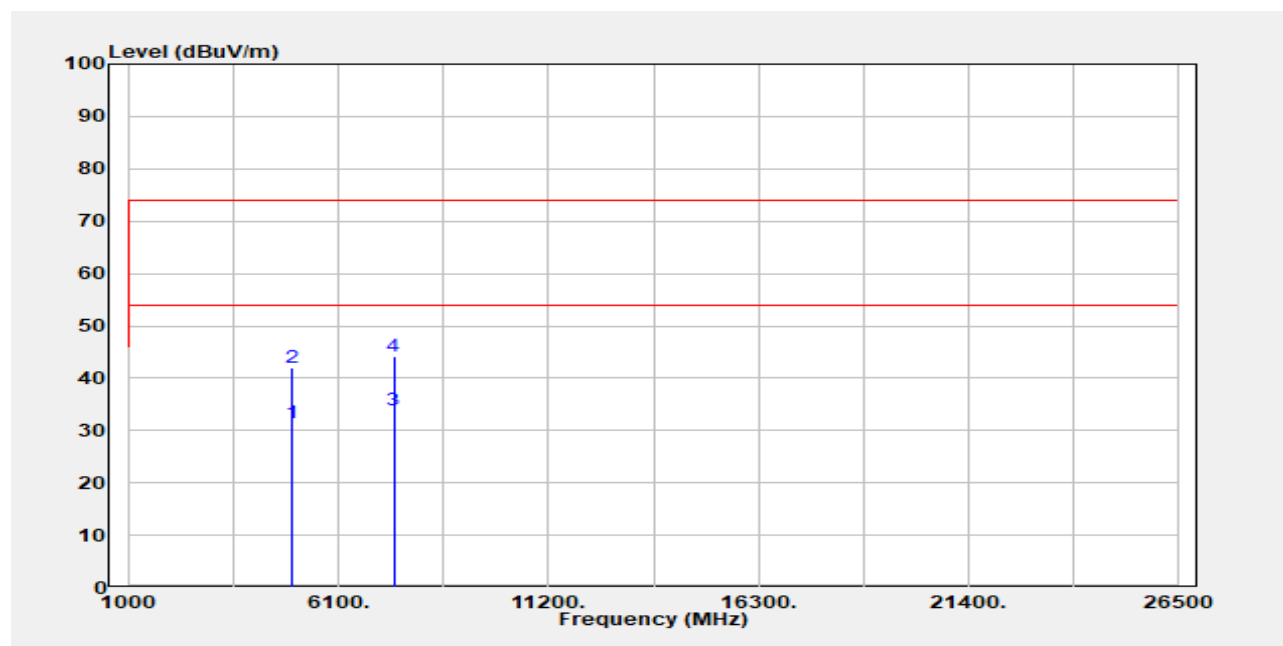
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2476 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Horizontal
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4952.00	Average	27.18	4.23	31.41	54.00	-22.59
4952.00	Peak	37.89	4.23	42.12	74.00	-31.88
7428.00	Average	24.95	8.88	33.83	54.00	-20.17
7428.00	Peak	35.41	8.88	44.29	74.00	-29.71

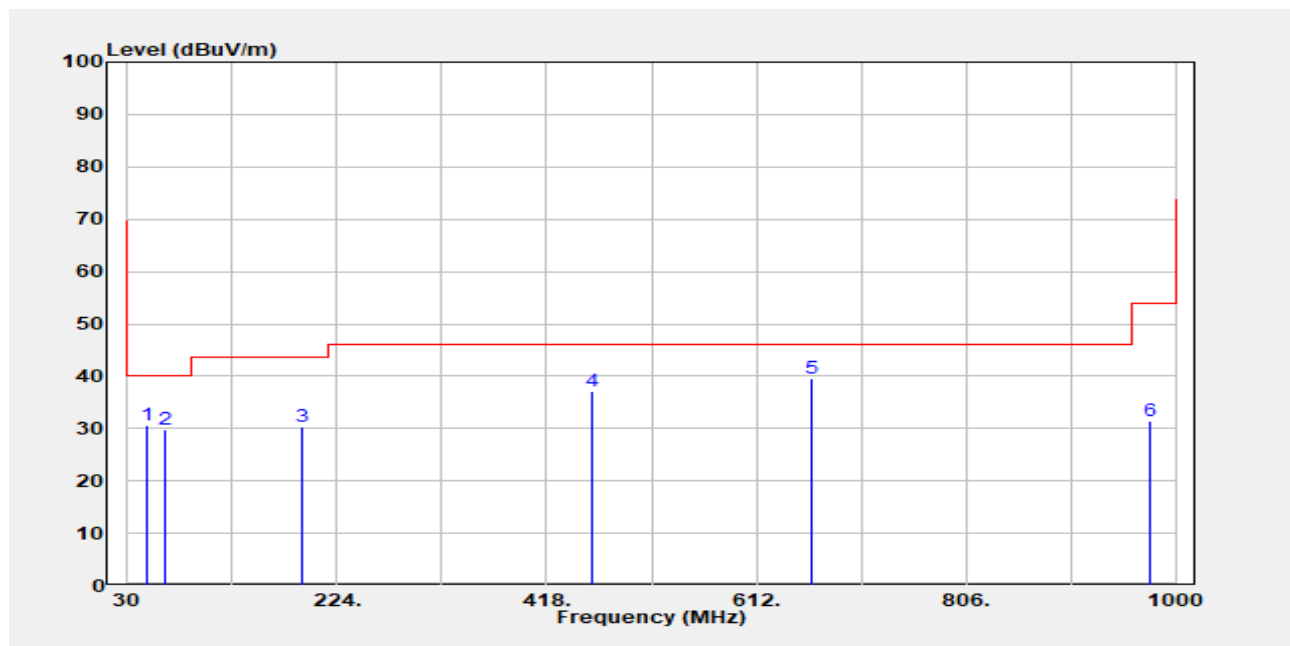
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Internal antenna

Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-02
 Temp./Humi. :22.5°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



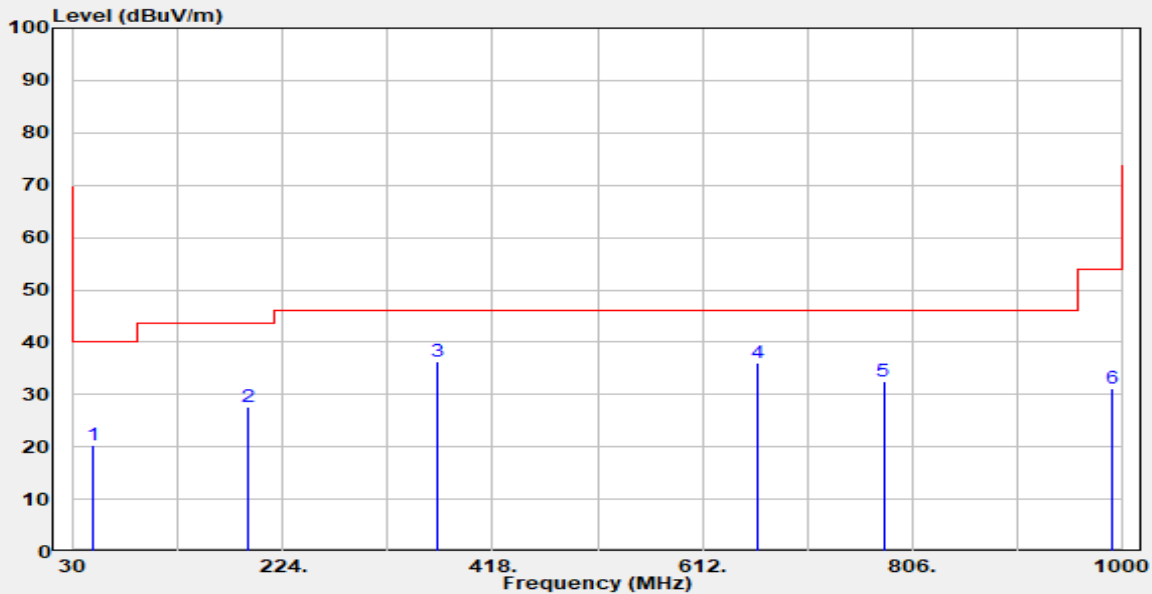
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	Peak	43.34	-12.68	30.66	40.00	-9.34
63.95	Peak	43.37	-13.67	29.70	40.00	-10.30
191.99	Peak	45.68	-15.40	30.28	43.50	-13.22
460.68	Peak	44.86	-7.75	37.11	46.00	-8.89
663.41	Peak	43.38	-3.86	39.52	46.00	-6.48
976.72	Peak	30.60	0.81	31.41	54.00	-22.59

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Report Number :TERF2504001409ER
Operation Mode :SRD 2.4G
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G
Test Date :2025-05-02
Temp./Humi. :22.5°C/53%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	Peak	32.97	-12.68	20.29	40.00	-19.71
191.99	Peak	42.98	-15.40	27.58	43.50	-15.92
366.59	Peak	46.77	-10.40	36.37	46.00	-9.63
663.41	QP	39.80	-3.86	35.94	46.00	-10.06
779.81	Peak	34.28	-1.69	32.59	46.00	-13.41
992.24	Peak	30.16	0.99	31.15	54.00	-22.85

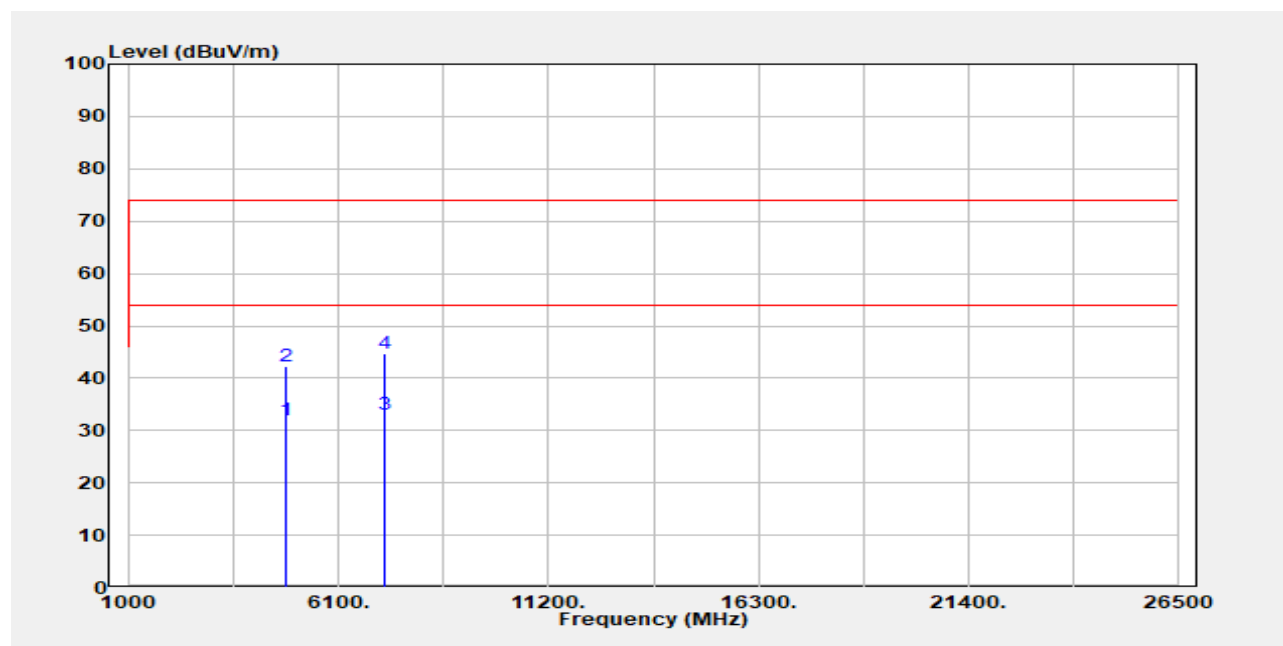
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2404 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C / 52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



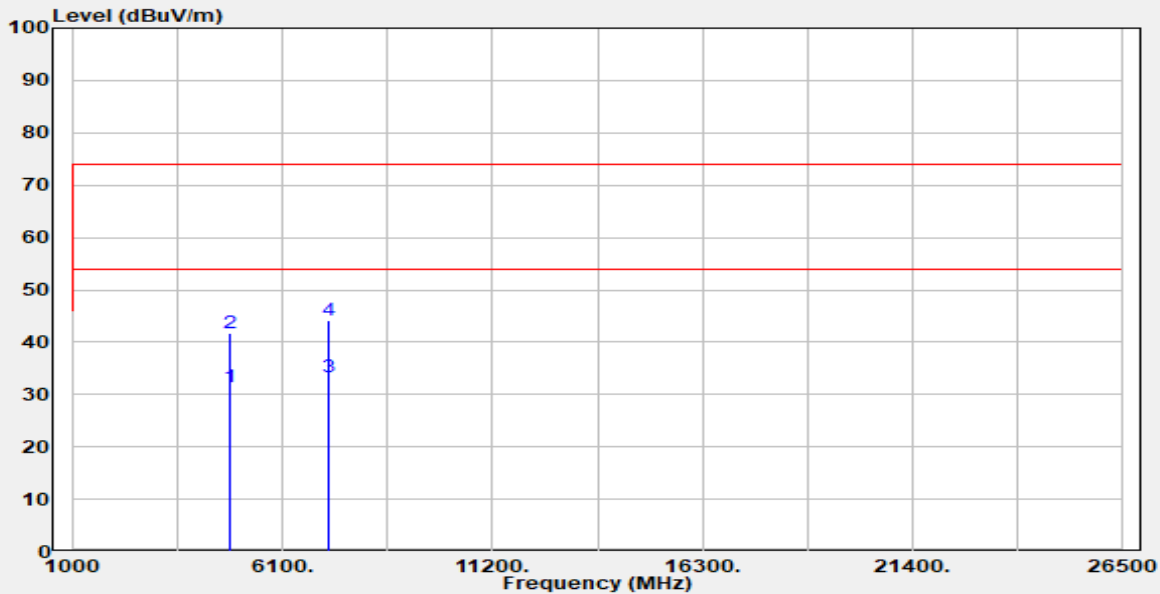
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4808.00	Average	27.99	3.89	31.88	54.00	-22.12
4808.00	Peak	38.48	3.89	42.37	74.00	-31.63
7212.00	Average	24.87	8.32	33.19	54.00	-20.81
7212.00	Peak	36.38	8.32	44.70	74.00	-29.30

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Report Number :TERF2504001409ER
Operation Mode :SRD 2.4G
Test Frequency :2404 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G
Test Date :2025-05-23
Temp./Humi. :23.9°C/52%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4808.00	Average	27.65	3.89	31.54	54.00	-22.46
4808.00	Peak	37.86	3.89	41.75	74.00	-32.25
7212.00	Average	24.88	8.32	33.20	54.00	-20.80
7212.00	Peak	35.87	8.32	44.19	74.00	-29.81

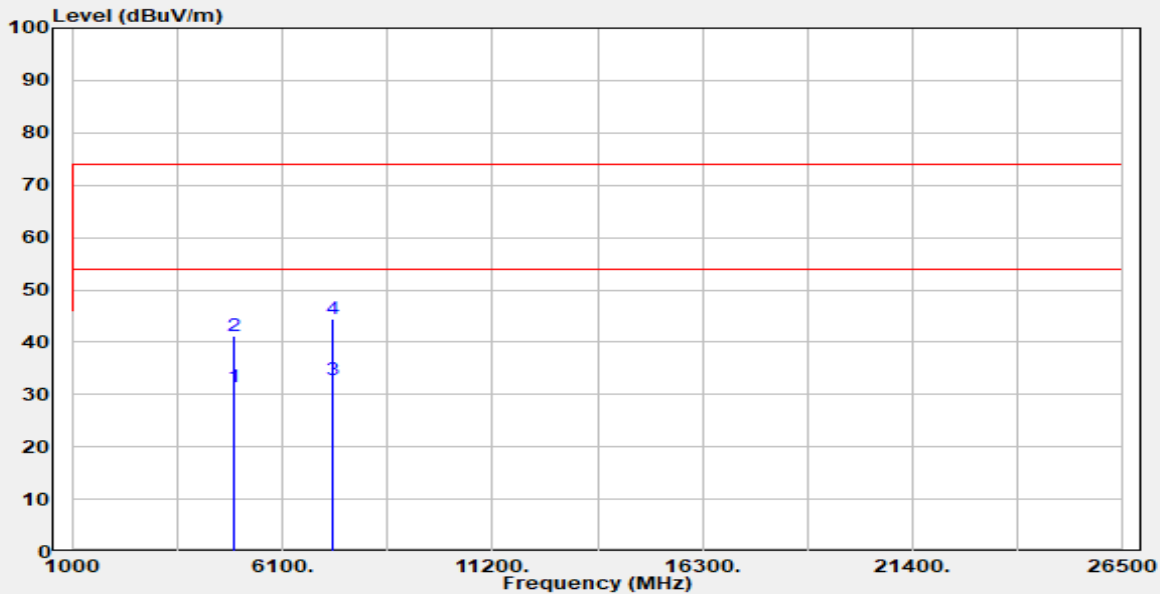
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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2440 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C / 52%
 Antenna Pol. : Vertical
 Engineer : Temo Chen



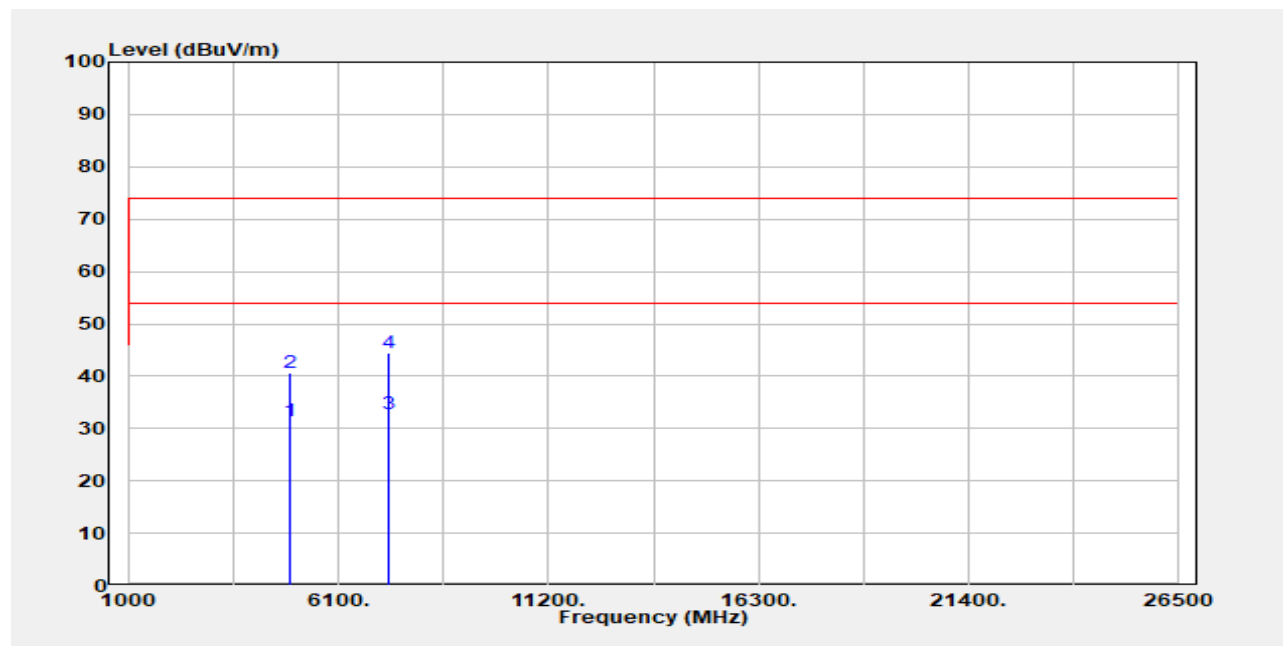
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	27.36	4.07	31.43	54.00	-22.57
4880.00	Peak	37.24	4.07	41.31	74.00	-32.69
7320.00	Average	24.58	8.31	32.89	54.00	-21.11
7320.00	Peak	36.22	8.31	44.53	74.00	-29.47

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Report Number : TERF2504001409ER
 Operation Mode : SRD 2.4G
 Test Frequency : 2440 MHz
 Test Mode : Tx
 EUT Pol : E2 Plane

Test Site : SAC G
 Test Date : 2025-05-23
 Temp./Humi. : 23.9°C/52%
 Antenna Pol. : Horizontal
 Engineer : Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4880.00	Average	27.26	4.07	31.33	54.00	-22.67
4880.00	Peak	36.61	4.07	40.68	74.00	-33.32
7320.00	Average	24.51	8.31	32.82	54.00	-21.18
7320.00	Peak	36.06	8.31	44.37	74.00	-29.63

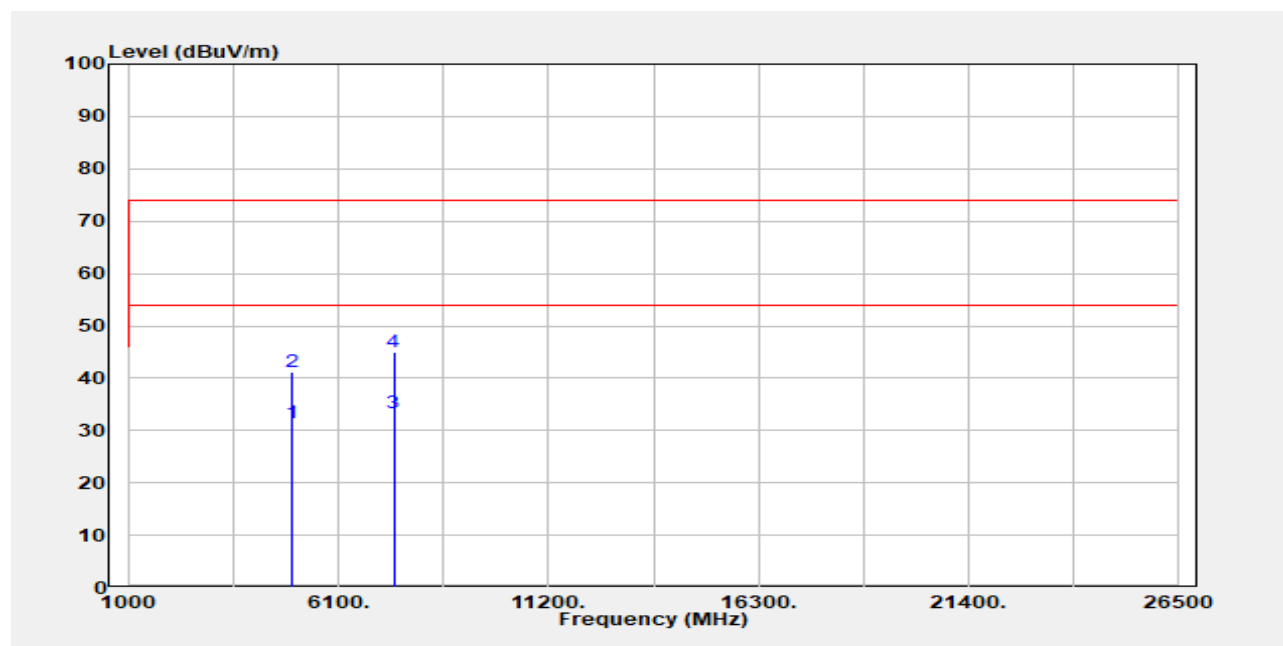
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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



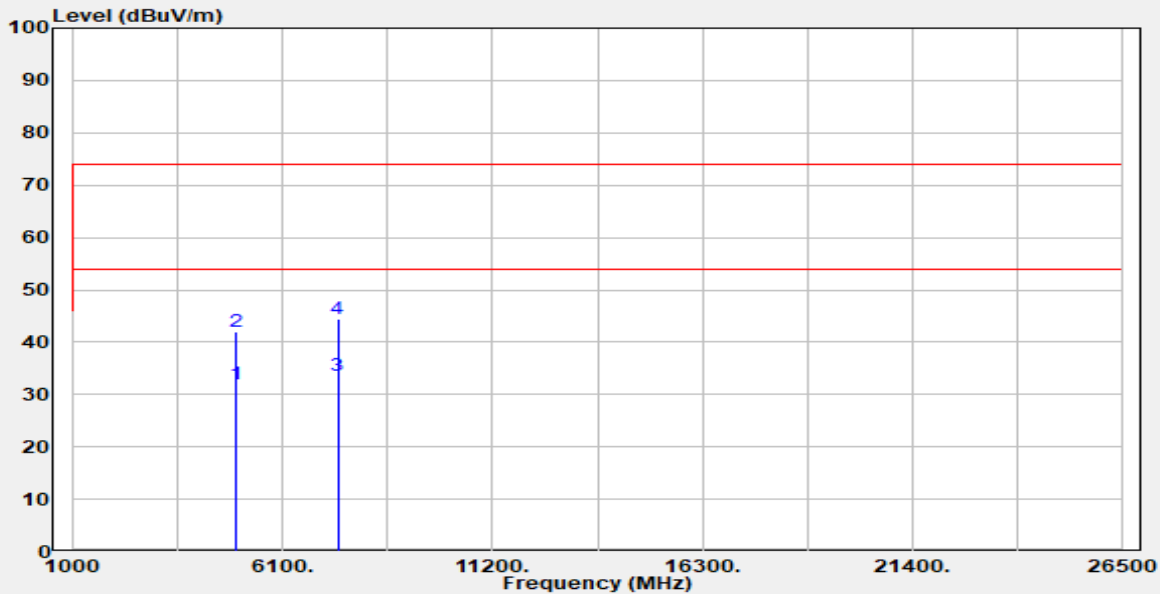
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4952.00	Average	27.26	4.23	31.49	54.00	-22.51
4952.00	Peak	37.00	4.23	41.23	74.00	-32.77
7428.00	Average	24.58	8.88	33.46	54.00	-20.54
7428.00	Peak	36.08	8.88	44.96	74.00	-29.04

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Report Number :TERF2504001409ER
 Operation Mode :SRD 2.4G
 Test Frequency :2476 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G
 Test Date :2025-05-23
 Temp./Humi. :23.9°C/52%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



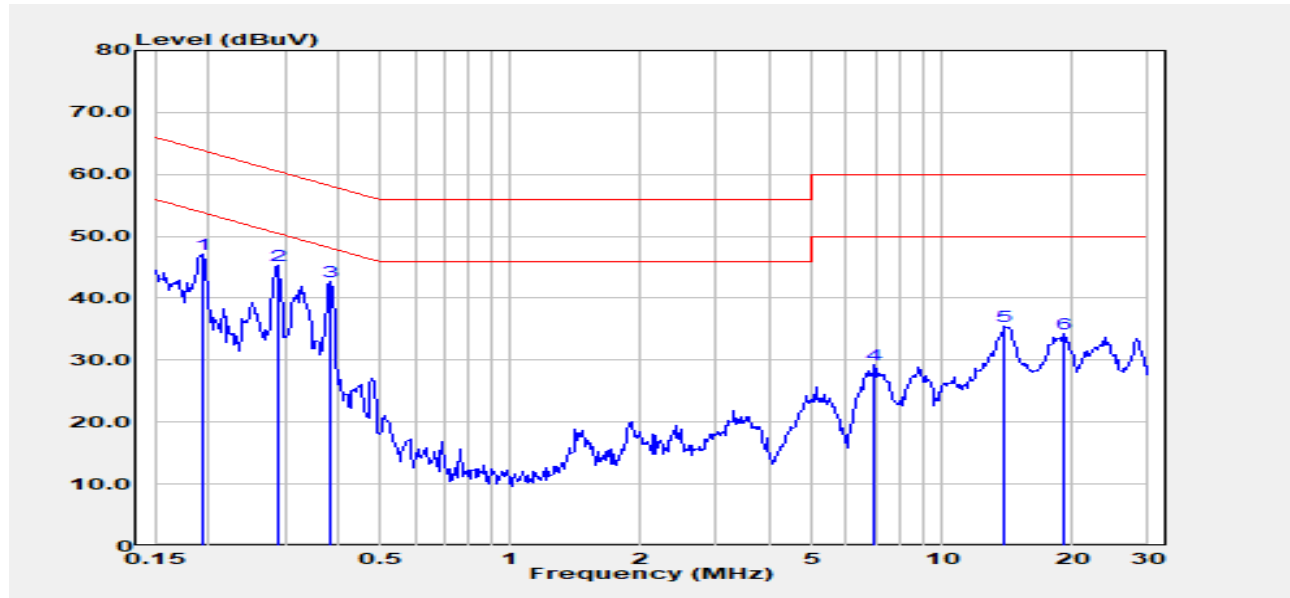
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4952.00	Average	27.66	4.23	31.89	54.00	-22.11
4952.00	Peak	37.79	4.23	42.02	74.00	-31.98
7428.00	Average	24.62	8.88	33.50	54.00	-20.50
7428.00	Peak	35.51	8.88	44.39	74.00	-29.61

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7.7 AC Power Line Conducted Emission

Report Number	:TERF2511003930E2	Test Site	:Conduction C
Test Mode	:SRD 2.4G	Test Date	:2025-11-26
Power	:120V/60Hz	Temp./Humi.	:23.8°C/47%
Probe	:L1	Engineer	:Alex Li



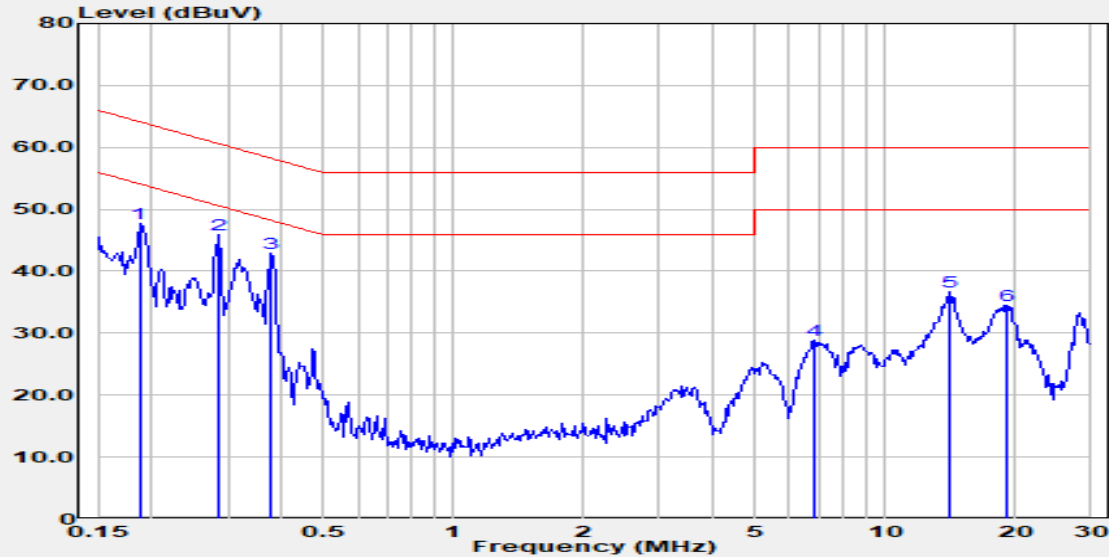
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.194	Peak	36.37	10.65	47.02	63.88	-16.86
0.288	Peak	34.74	10.64	45.38	60.57	-15.19
0.382	Peak	32.09	10.62	42.71	58.24	-15.53
6.964	Peak	18.28	10.96	29.24	60.00	-30.76
13.971	Peak	24.38	11.06	35.43	60.00	-24.57
19.129	Peak	23.15	11.15	34.29	60.00	-25.71

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Report Number	:TERF2511003930E2	Test Site	:Conduction C
Test Mode	:SRD 2.4G	Test Date	:2025-11-26
Power	:120V/60Hz	Temp./Humi.	:23.8°C/47%
Probe	:N	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.187	Peak	36.98	10.65	47.63	64.17	-16.53
0.286	Peak	35.27	10.63	45.90	60.64	-14.74
0.378	Peak	32.20	10.62	42.81	58.31	-15.50
6.847	Peak	18.03	10.94	28.97	60.00	-31.03
14.091	Peak	25.56	11.05	36.61	60.00	-23.39
19.129	Peak	23.41	11.15	34.56	60.00	-25.44

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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