

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description DM DOT SENSOR

Applicant: Digital Matter Pty Ltd
Suite 8, 100 Railway Road, Subiaco, 6008, Western Australia

Manufacturer: Digital Matter Pty Ltd
Suite 8, 100 Railway Road, Subiaco, 6008, Western Australia

Brand Name: Digital Matter

Model No.: DM DOT SENSOR

Report Number: TERF2602000596ER

FCC ID POJ-DMDOTSENSOR

Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2602000598ER, for more details please refer to section 2 in this report.

Date of Test: N/A, the test results are fully leveraged from test report number TERF2602000598ER, for more details please refer to section 2 in this report.

Issue Date: July 13, 2026

Approved By

Jazz 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 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
TERF2602000596ER	00	Original	April 02, 2026	Mini Yeh	
TERF2602000596ER	01	Update Section 2.3	July 13, 2026	Mini Yeh	*

Note:

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

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Table of Contents

1	GENERAL INFORMATION	5
1.1	Equipment Under Test (EUT)	5
1.2	RF Specification	5
1.3	Antenna Designation	5
1.4	Operating Frequencies	6
1.5	EUT Availability and The Worst Test Modes	6
2	SUMMARY OF TEST RESULTS	7
2.1	Test Methodology of Applied Standards	7
2.2	Measurement Uncertainty	8
2.3	Test Facility	9
3	CONTROL UNIT(S) AND PERIPHERAL(S).....	10
3.1	EUT Exercise	10
3.2	Diagrams.....	10
4	TEST INSTRUMENT	11
4.1	Conducted Measurement	11
4.2	Radiated Measurement	11
5	REGULATORY REQUIREMENTS	12
5.1	Emission Bandwidth	12
5.2	Duty Cycle.....	12
5.3	Maximum Output Power.....	12
5.4	Maximum Power Spectral Density.....	12
5.5	Out of Band Emission.....	13
5.6	Unwanted Emissions.....	13
5.7	AC Power Line Conducted Emission.....	14
5.8	Antenna Requirement	14
6	TEST CONFIGURATION.....	15
6.1	Emission Bandwidth	15
6.2	Maximum Output Power.....	16
6.3	Maximum Power Spectral Density.....	17
6.4	Out of Band Emission.....	17
6.5	Unwanted Emission.....	19
6.6	AC Power Line Conducted Emission.....	22

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7	TEST RESULTS.....	23
7.1	Emission Bandwidth	23
7.2	Duty Factor:.....	27
7.3	Maximum Output Power	28
7.4	Maximum Power Spectral Density	28
7.5	Out of Band Emission.....	30
7.6	Unwanted Emissions	33
7.7	AC Power Line Conducted Emission	50

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	DM DOT SENSOR
Brand Name:	Digital Matter
Model No.:	DM DOT SENSOR
Hardware Version:	V2.1
Firmware Version:	V1.1
EUT Series No.:	N/A
Power Supply:	3 Vdc
Test Software (Name/Version)	OpenOCDRTT Viewer / 1.0.0.0

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2400MHz – 2483.5MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 5.04 dBm

1.3 Antenna Designation

Antenna Type	Supplier	Freq. (MHz)	Peak Antenna Gain (dBi)
Printed	Radientum	2400~2483.5	2.12

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. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
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)
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

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
CONDUCTED TEST				
Bluetooth LE_1M	0 to 39	0,20,39	GFSK	1

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

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Not applicable	
§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 TERF2602000598ER.

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.

Test Condition	Test Site name	Test Engineer	EUT S/N	Test Environment:	Test Date
Conducted	Conducted 1	Dante Ding	60EFABF7D5D1	20~25°C / 50~65%	2026/02/25 ~ 2026/03/19
Radiated	SAC 1	WJ Lin	60EFABF7D5D1	22.5~23.7°C / 59~64%	2026/02/26 ~ 2026/03/20

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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. An engineering test mode provided by the applicant was used to control the EUT transmission, test channel, and modulation.
2. The spectrum analyzer offset was set to compensate for RF cable loss and attenuation between the EUT and the analyzer, ensuring the reading reflects the actual RF output level. Duty factor compensation was also applied where applicable.

3.2 Diagrams

Conducted Setup	Radiated Setup
	

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	SUHNER	20dB 18GHz 2W	6620.19.AA	12/07/2025	12/06/2026
DC Block	Mini-Circuits	BLK-18-S+	6	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
Power Meter	Anritsu	ML2496A	1242004	10/23/2025	10/22/2026
Power Sensor	Anritsu	MA2411B	1207365	11/06/2025	11/05/2026
Power Sensor	Anritsu	MA2411B	1207368	10/23/2025	10/22/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	24	12/07/2025	12/06/2026
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M3	12/07/2025	12/06/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/23/2026	01/22/2027
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	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.

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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.

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.

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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.

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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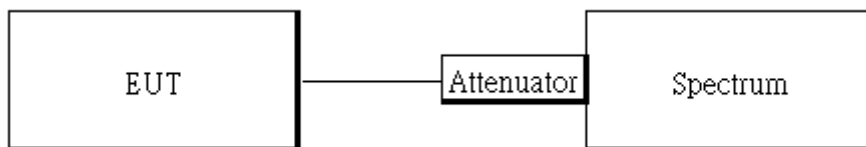
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6 TEST CONFIGURATION

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.

6.1.2 99% BW measurements

1. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW
Sweep=auto,
Detector = Peak, and Max hold.
2. Use the 99% power bandwidth function of the spectrum analyzer.
3. Repeat above procedures until all test default channel is completed.

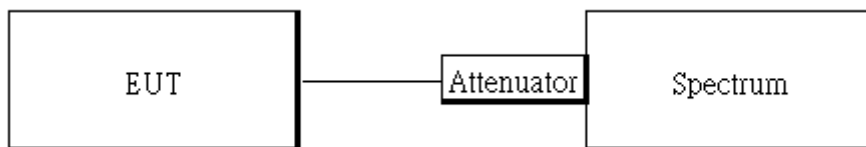
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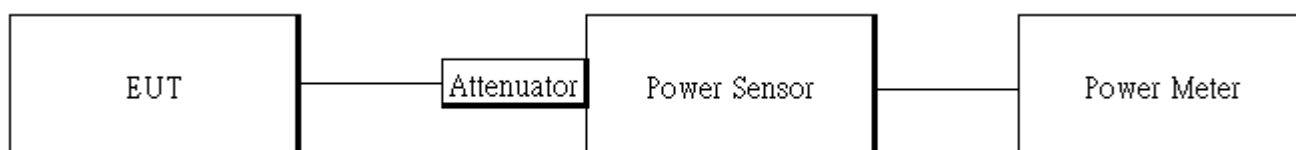
6.2 Maximum Output Power

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.

6.2.2 Output Power

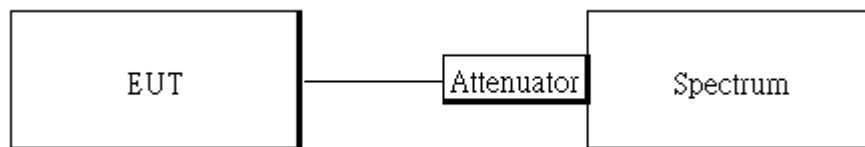


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
3. Record the max. Reading as observed from Power Meter.
4. Repeat above procedures until all test default channel measured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

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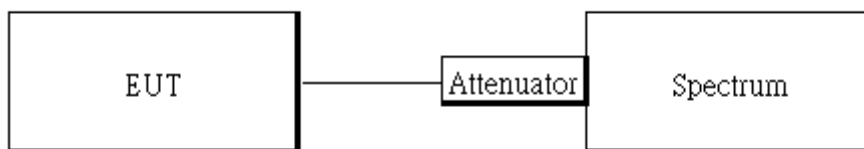
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6.3 Maximum Power Spectral Density



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
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.

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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
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.

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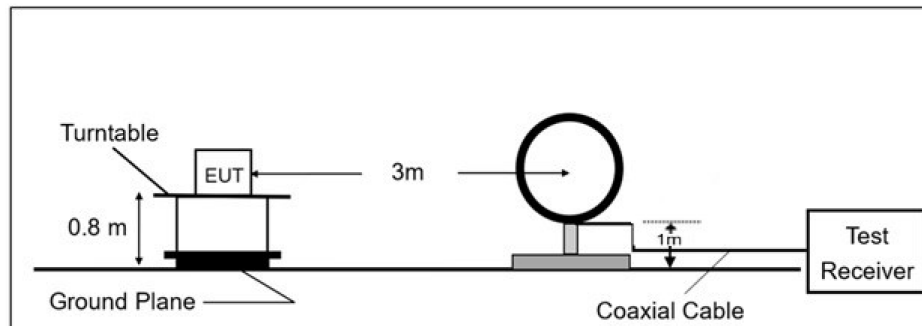
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6.5 Unwanted Emission

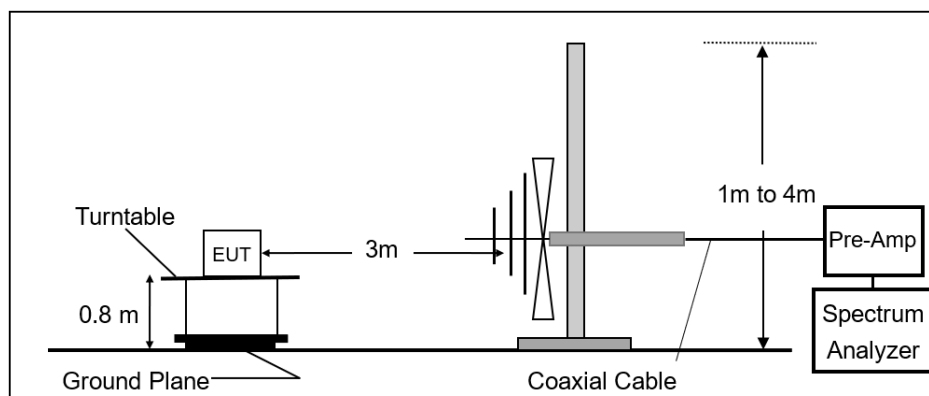
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

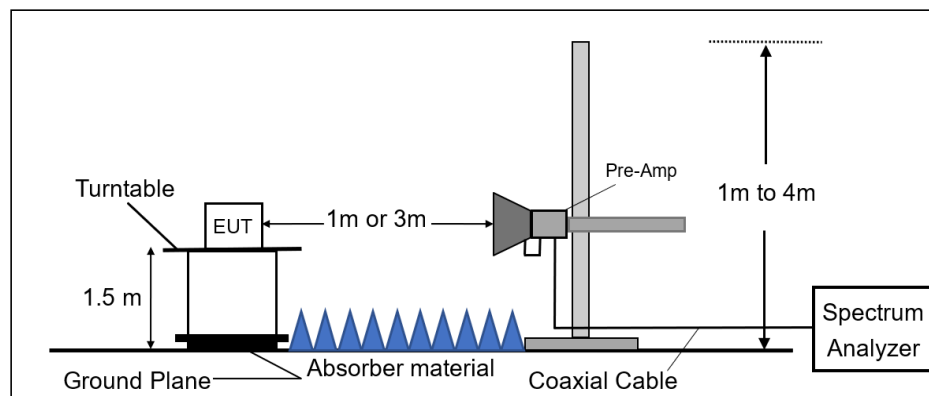
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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.

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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:

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

Where FS = Field Strength(dBμV/m) CL = Cable Attenuation Factor (Cable Loss) (dB)
 RA = Reading Amplitude(dBμV) AG = Amplifier Gain (dB)
 AF = Antenna Factor (dBμV/m)

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

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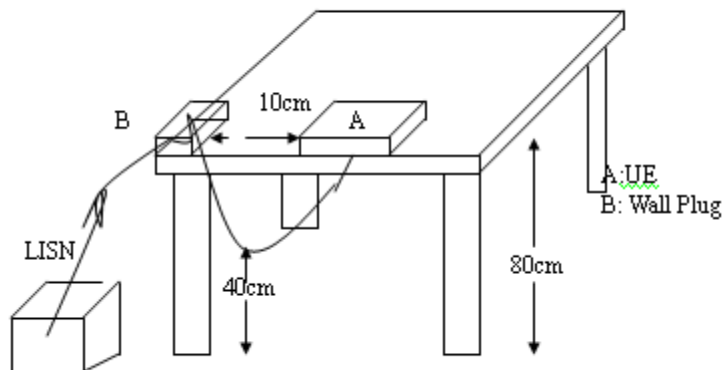
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6.6 AC Power Line Conducted Emission



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 μ H / 50 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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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 6dB BW measurements

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6797	≥ 0.5	PASS
2442	0.6801	≥ 0.5	PASS
2480	0.6762	≥ 0.5	PASS

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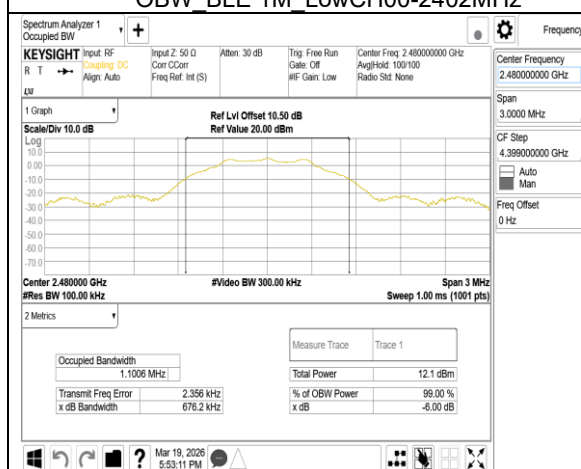
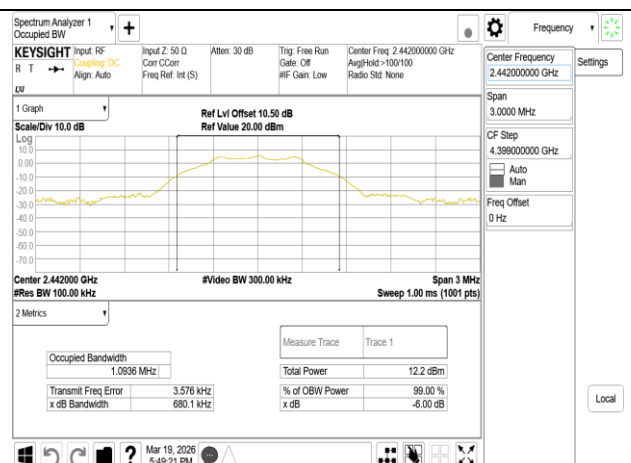
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7.1.2 99% Bandwidth

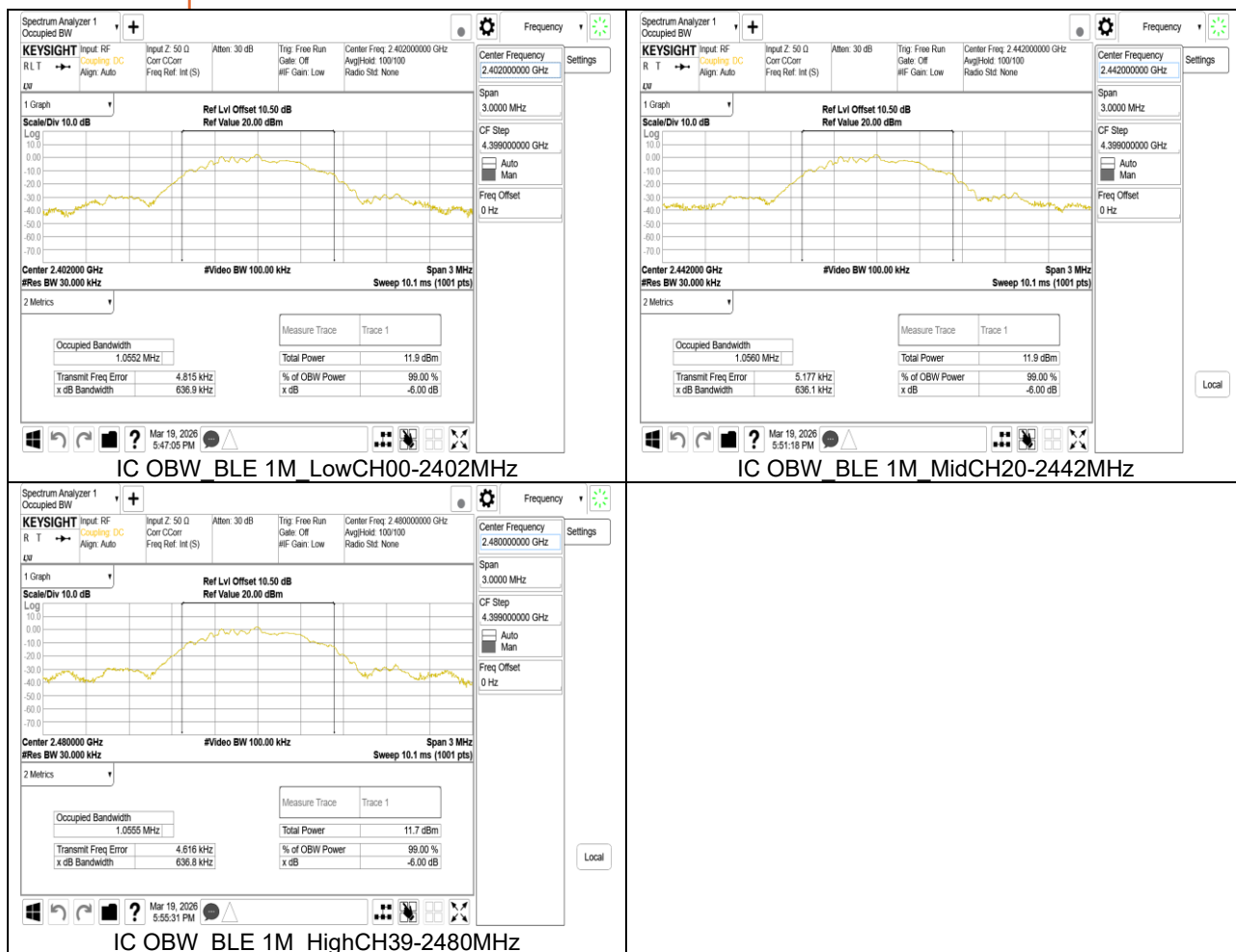
BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0552
2442	1.056
2480	1.0555

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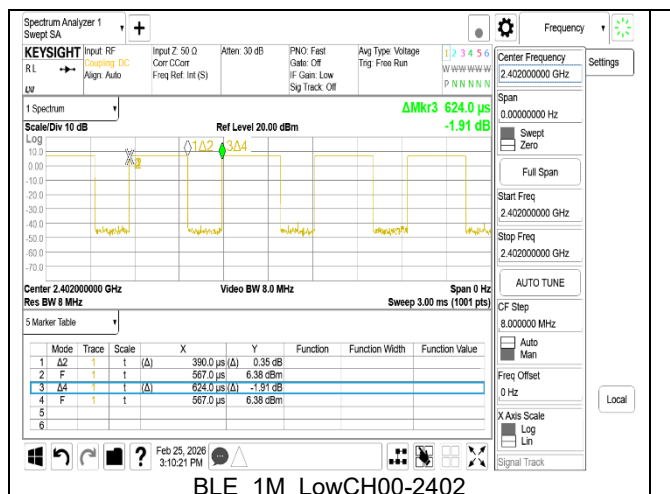
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7.2 Duty Factor:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	62.50	2.04	2.56	3.00



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7.3 Maximum Output Power

7.3.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	5	5.04	30
20	2442	5	4.92	30
39	2480	5	4.82	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	5	4.95	30
20	2442	5	4.82	30
39	2480	5	4.73	30

***Note:**

1. Measured by power meter, cable loss 10.5 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

7.4 Maximum Power Spectral Density

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-9.10	8	PASS
2442	-9.21	8	PASS
2480	-9.21	8	PASS

***Note:**

1. cable loss as 10.5 dB that offsets in the spectrum

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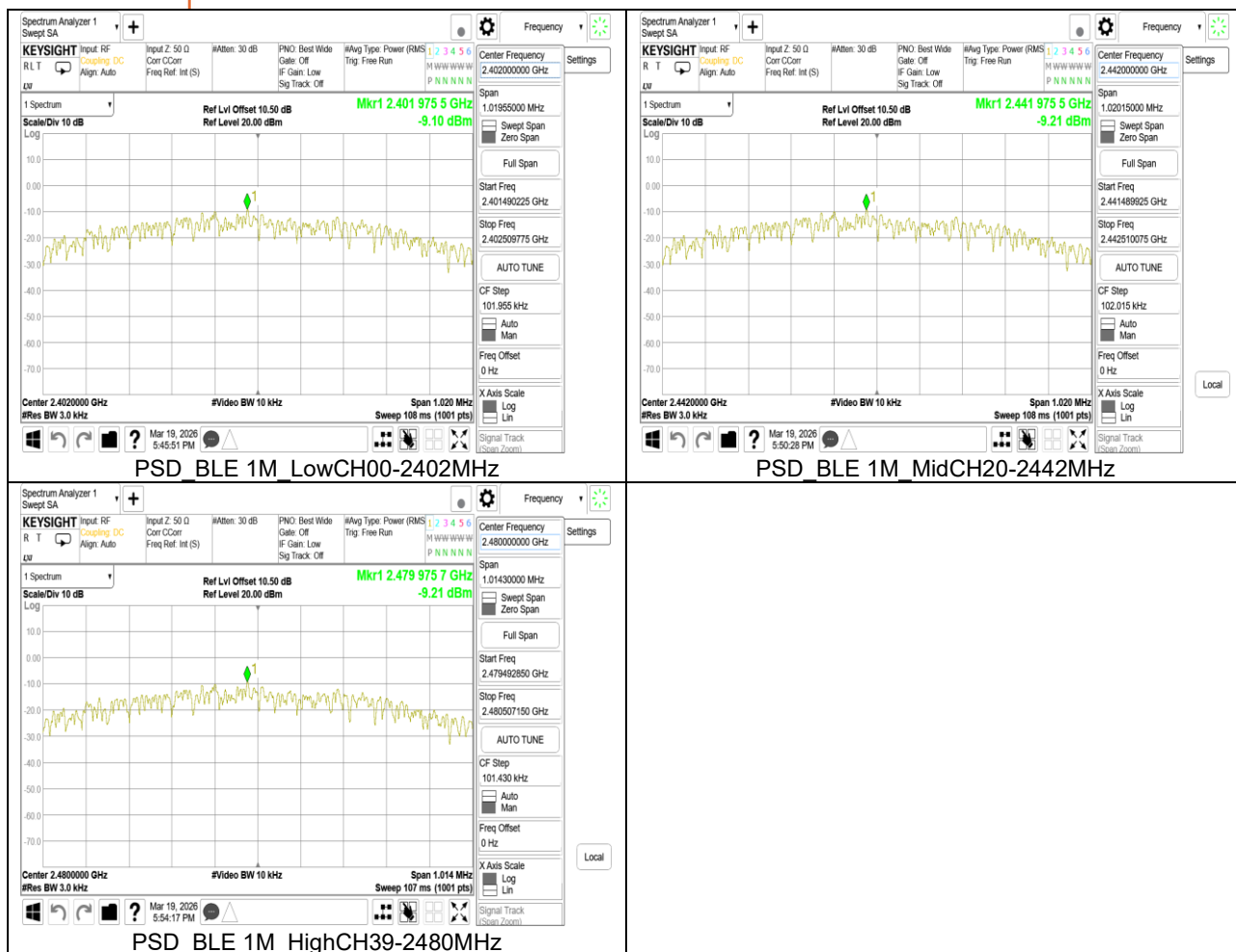
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7.5 Out of Band Emission

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	5.41	-14.59
2442	5.39	-14.61
2480	5.28	-14.72

***Note:**

1.cable loss as 10.5 dB that offsets in the spectrum

2.Refer to next page for plots.

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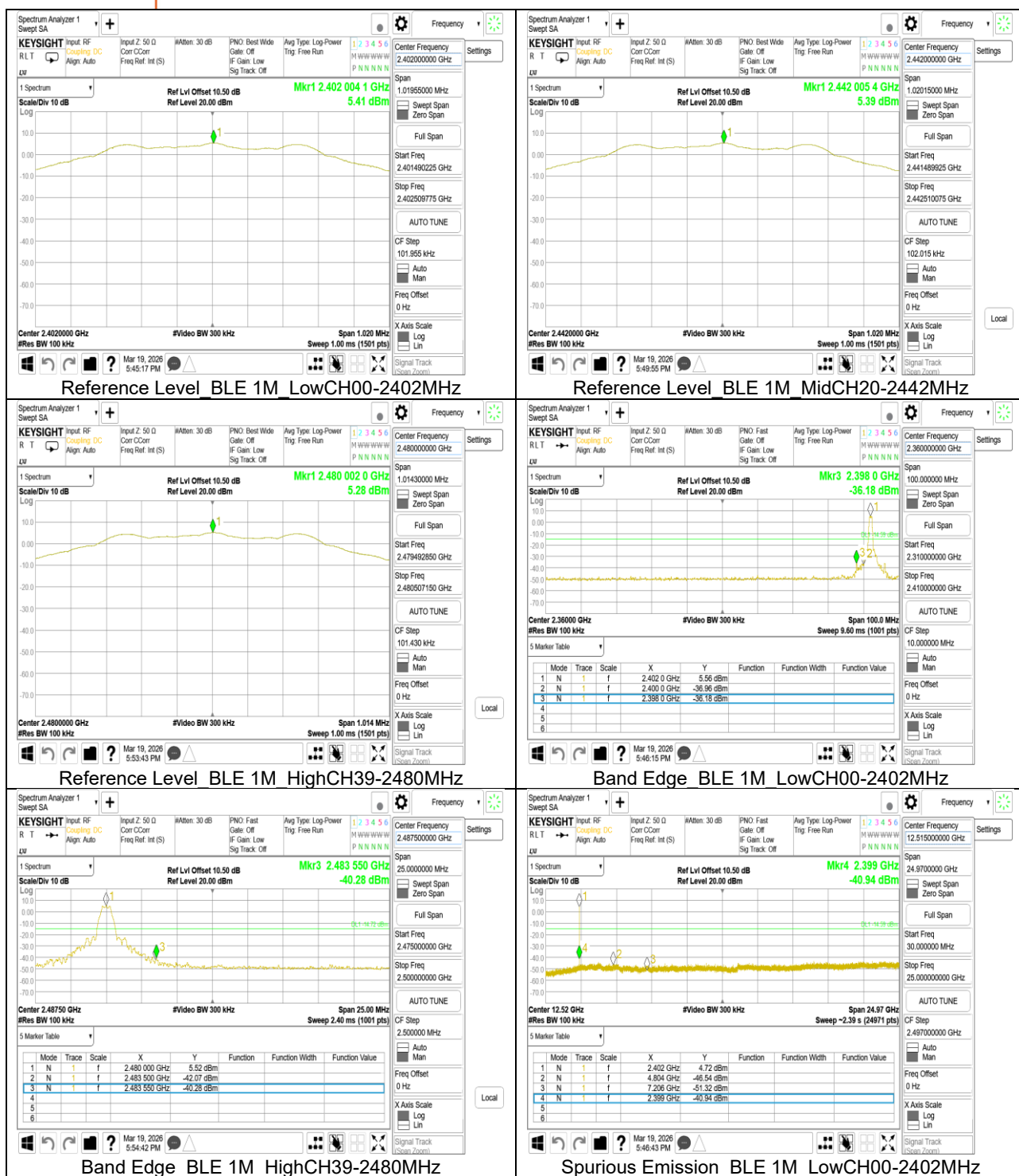
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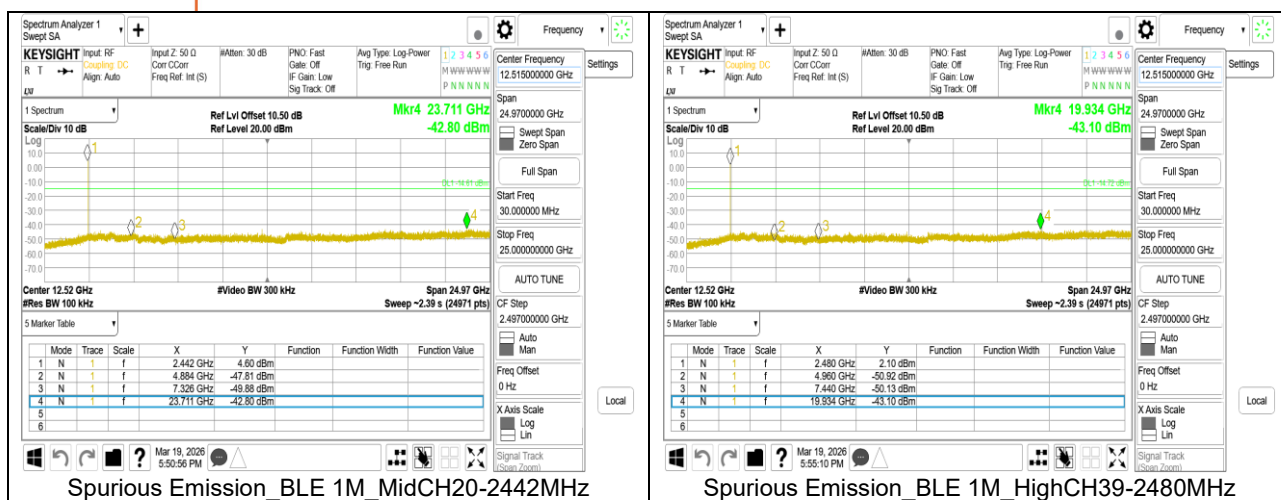
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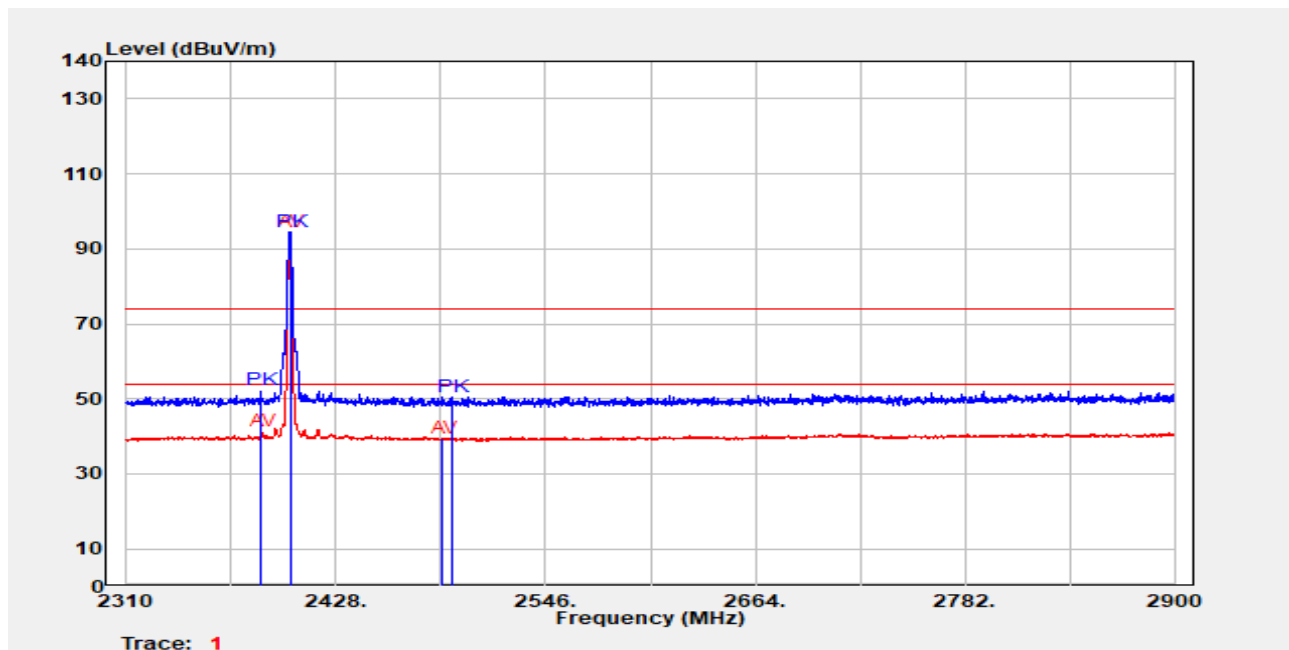
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7.6 Unwanted Emissions

7.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2385.94	Average	43.47	-2.15	41.32	54.00	-12.68
2385.94	Peak	54.54	-2.15	52.39	74.00	-21.61
2402.07	Average	96.39	-2.10	94.29	-	-
2402.07	Peak	96.76	-2.10	94.66	-	-
2488.04	Average	41.93	-2.33	39.60	54.00	-14.40
2492.76	Peak	52.96	-2.39	50.57	74.00	-23.43

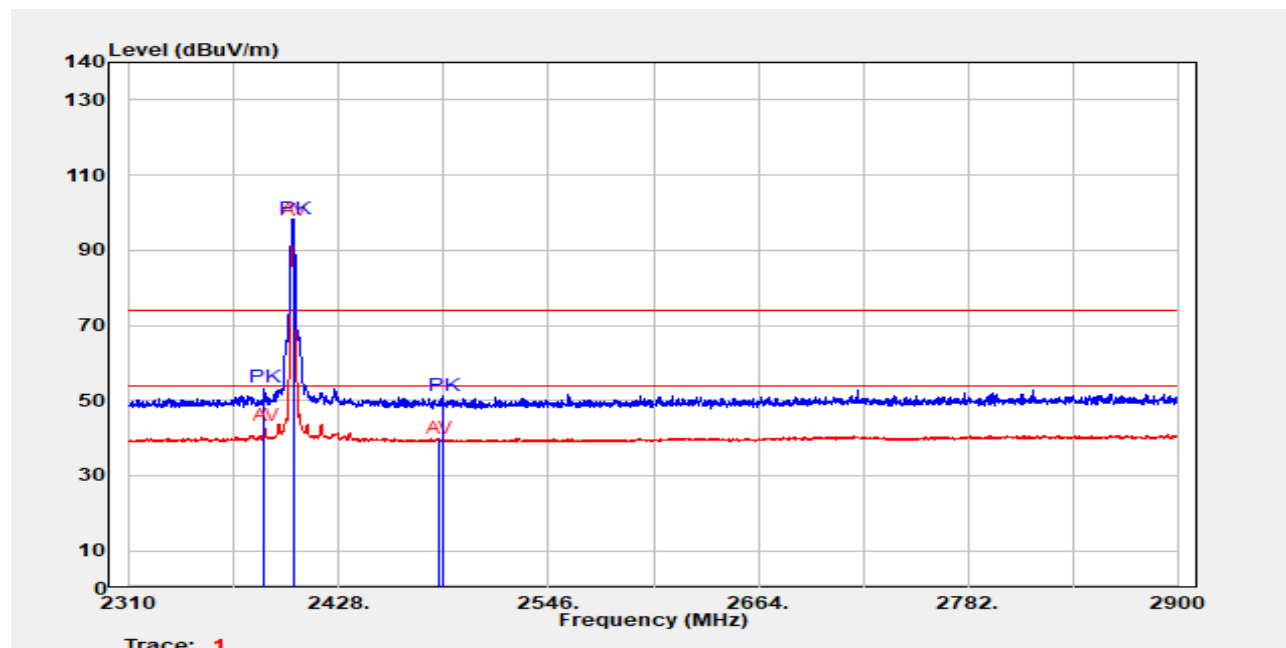
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



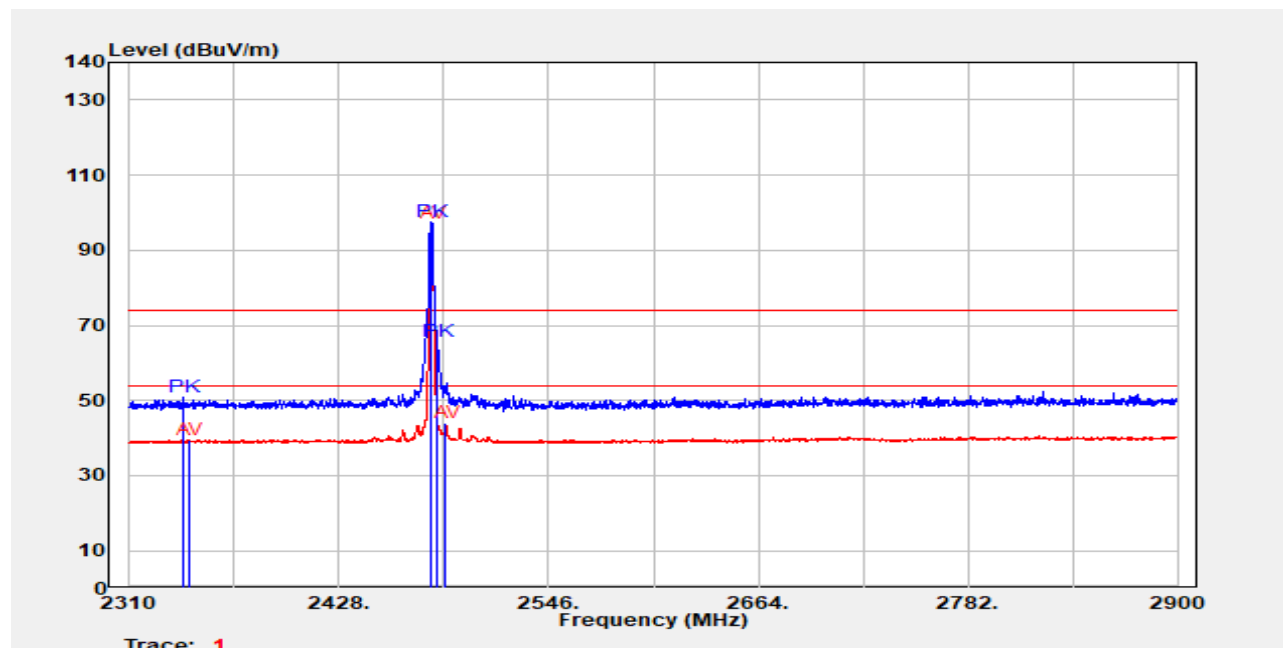
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2385.55	Peak	55.63	-2.15	53.48	74.00	-20.52
2385.94	Average	45.24	-2.15	43.09	54.00	-10.91
2402.07	Average	100.16	-2.10	98.06	-	-
2402.07	Peak	100.50	-2.10	98.40	-	-
2483.72	Average	42.01	-2.28	39.73	54.00	-14.27
2486.08	Peak	53.67	-2.30	51.37	74.00	-22.63

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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



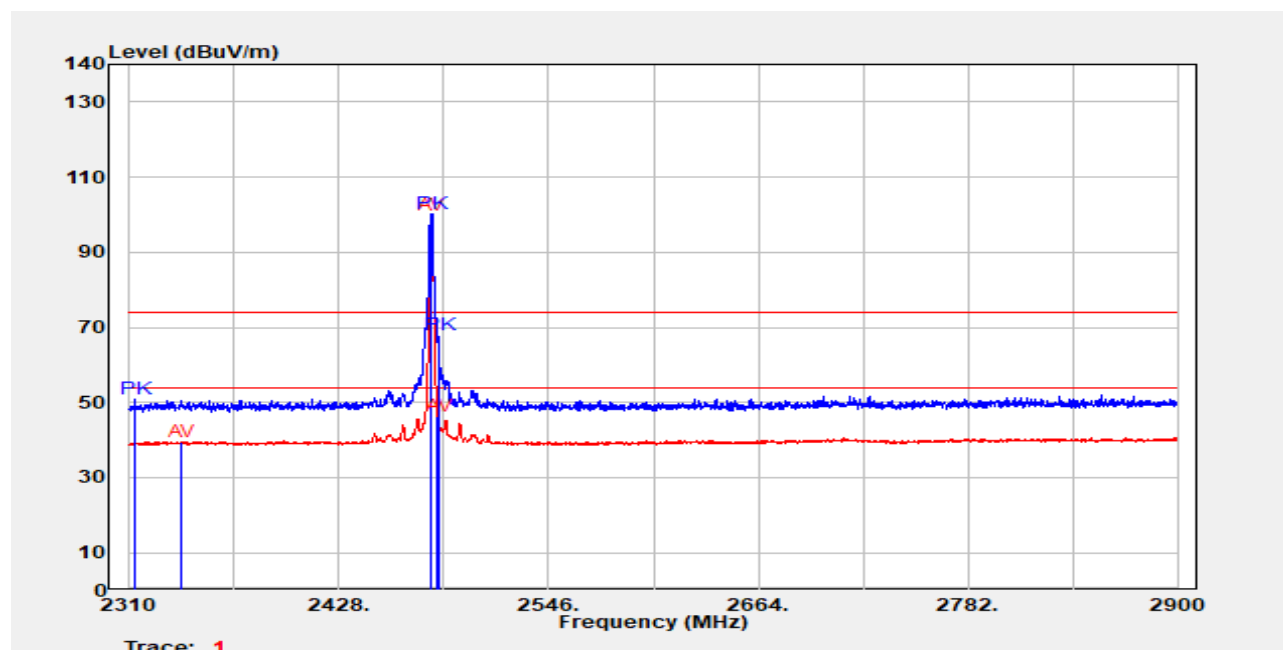
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2340.49	Peak	53.03	-2.17	50.86	74.00	-23.14
2343.64	Average	41.72	-2.16	39.56	54.00	-14.44
2480.17	Average	99.28	-2.24	97.04	-	-
2480.17	Peak	99.58	-2.24	97.34	-	-
2483.50	Peak	67.92	-2.28	65.64	74.00	-8.36
2487.85	Average	46.19	-2.33	43.86	54.00	-10.14

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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2312.95	Peak	53.05	-2.20	50.85	74.00	-23.15
2338.53	Average	41.77	-2.17	39.60	54.00	-14.40
2479.78	Average	102.17	-2.24	99.93	-	-
2479.78	Peak	102.52	-2.24	100.28	-	-
2483.50	Average	48.55	-2.28	46.27	54.00	-7.73
2483.72	Peak	70.21	-2.28	67.93	74.00	-6.07

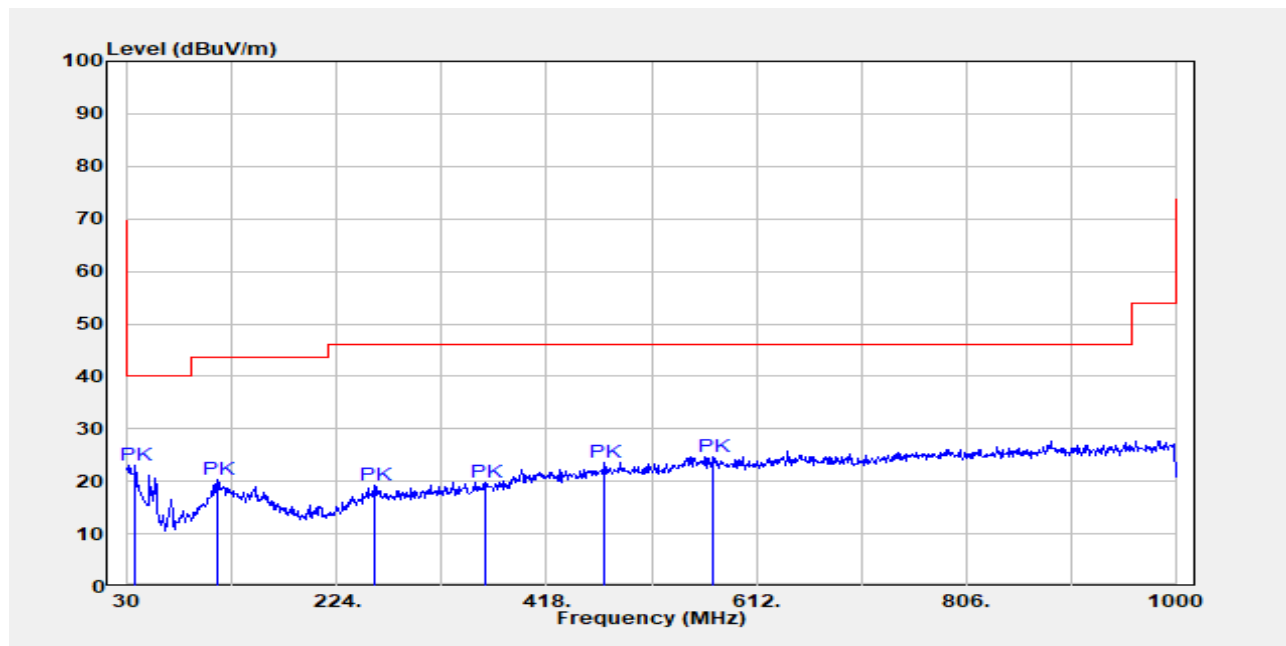
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7.6.2 Radiated Spurious Emission

Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



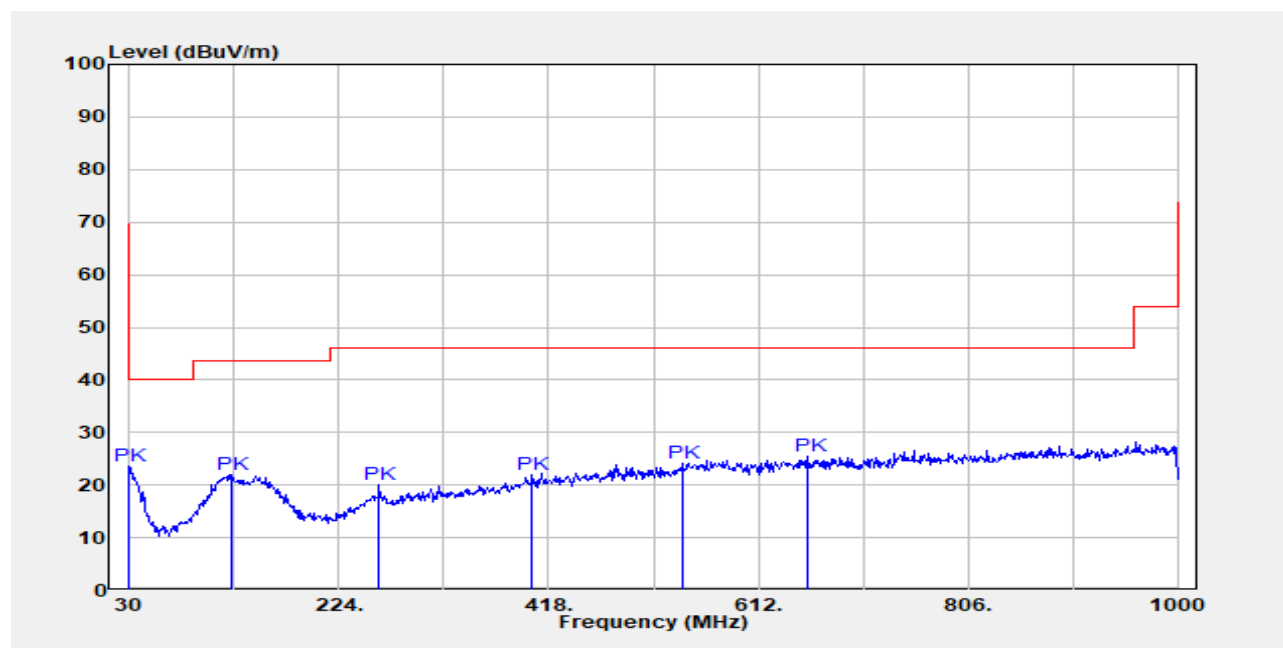
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	31.50	-8.37	23.13	40.00	-16.87
112.45	Peak	32.13	-11.73	20.40	43.50	-23.10
257.95	Peak	27.91	-8.79	19.12	46.00	-26.88
360.77	Peak	27.42	-7.54	19.88	46.00	-26.12
471.35	Peak	29.08	-5.43	23.65	46.00	-22.35
572.23	Peak	28.47	-3.70	24.77	46.00	-21.23

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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



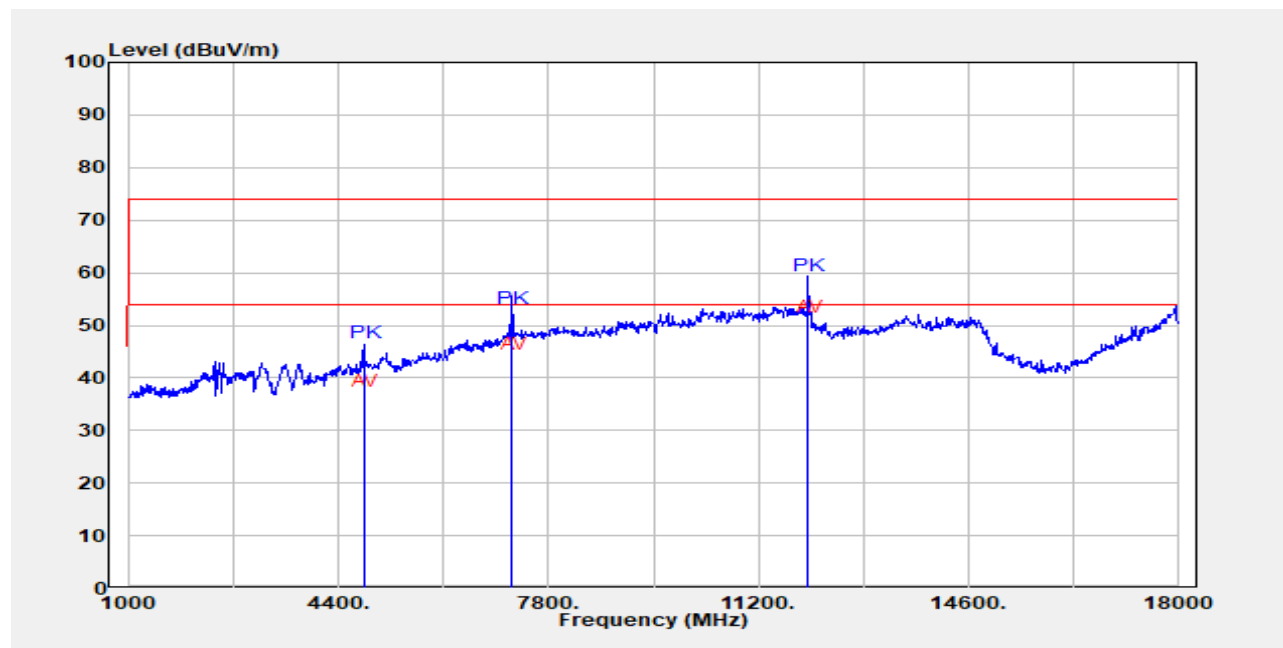
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.00	Peak	28.46	-4.85	23.61	40.00	-16.39
125.06	Peak	33.44	-11.47	21.97	43.50	-21.53
260.86	Peak	28.71	-8.67	20.04	46.00	-25.96
402.48	Peak	28.37	-6.34	22.03	46.00	-23.97
541.19	Peak	28.01	-3.95	24.06	46.00	-21.94
658.56	Peak	28.44	-2.98	25.46	46.00	-20.54

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Report Number :TERF2602000598ER
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2026-03-20
Temp./Humi. :23.7°C/59%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	34.93	2.59	37.52	54.00	-16.48
4804.00	Peak	44.09	2.59	46.68	74.00	-27.32
7206.00	Average	35.81	8.70	44.51	54.00	-9.49
7206.00	Peak	44.37	8.70	53.07	74.00	-20.93
12010.00	Average	40.36	11.05	51.41	54.00	-2.59
12010.00	Peak	48.23	11.05	59.28	74.00	-14.72

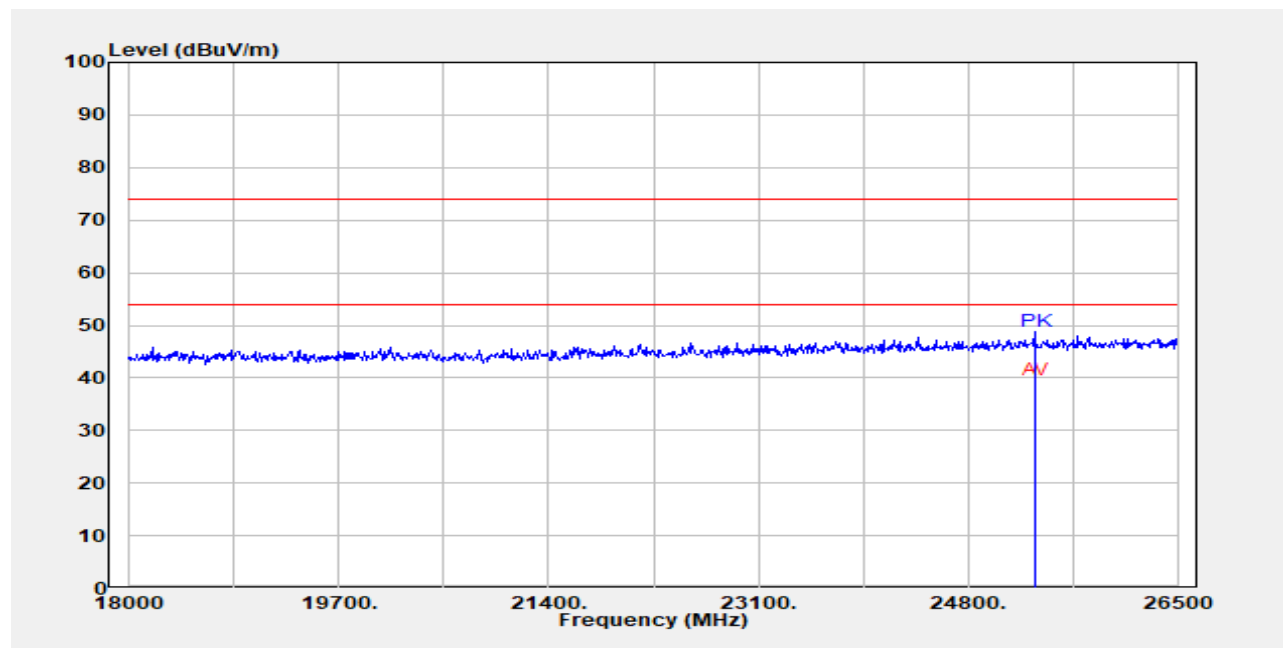
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
25344.00	Average	33.74	5.89	39.63	54.00	-14.37
25344.00	Peak	42.96	5.89	48.85	74.00	-25.15

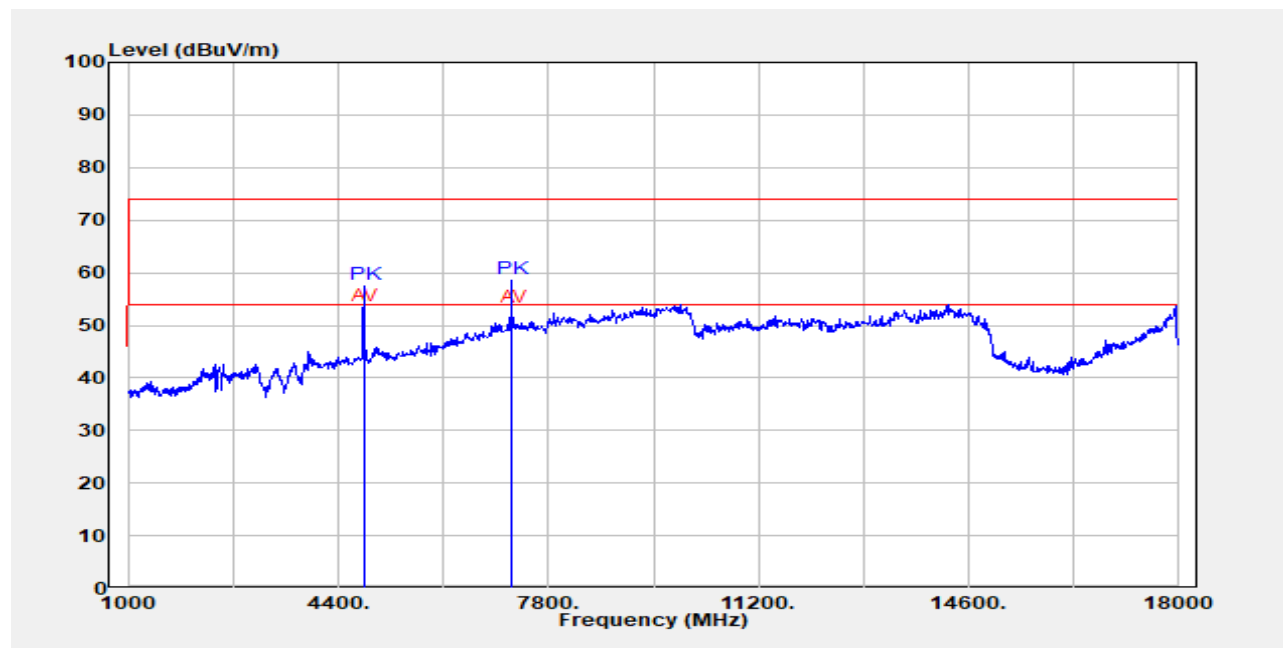
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	50.02	3.57	53.59	54.00	-0.41
4804.00	Peak	54.14	3.57	57.71	74.00	-16.29
7206.00	Average	43.84	9.56	53.40	54.00	-0.60
7206.00	Peak	49.21	9.56	58.77	74.00	-15.23

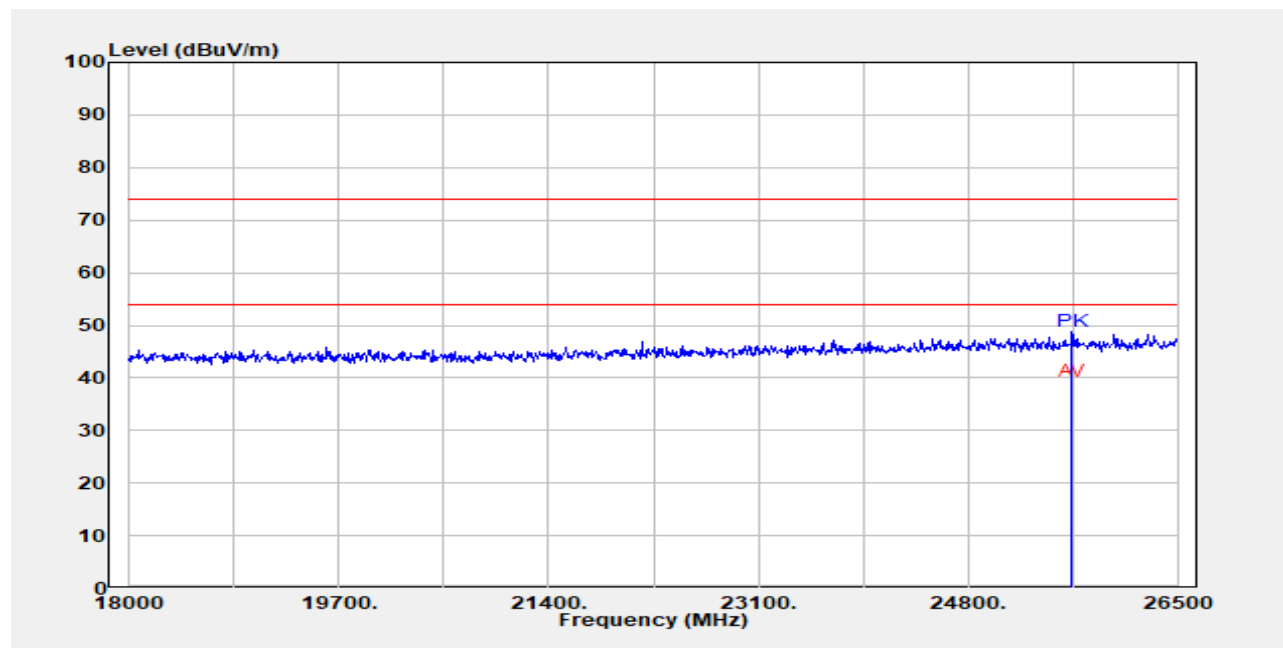
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
25641.50	Average	33.67	5.73	39.40	54.00	-14.60
25641.50	Peak	43.18	5.73	48.91	74.00	-25.09

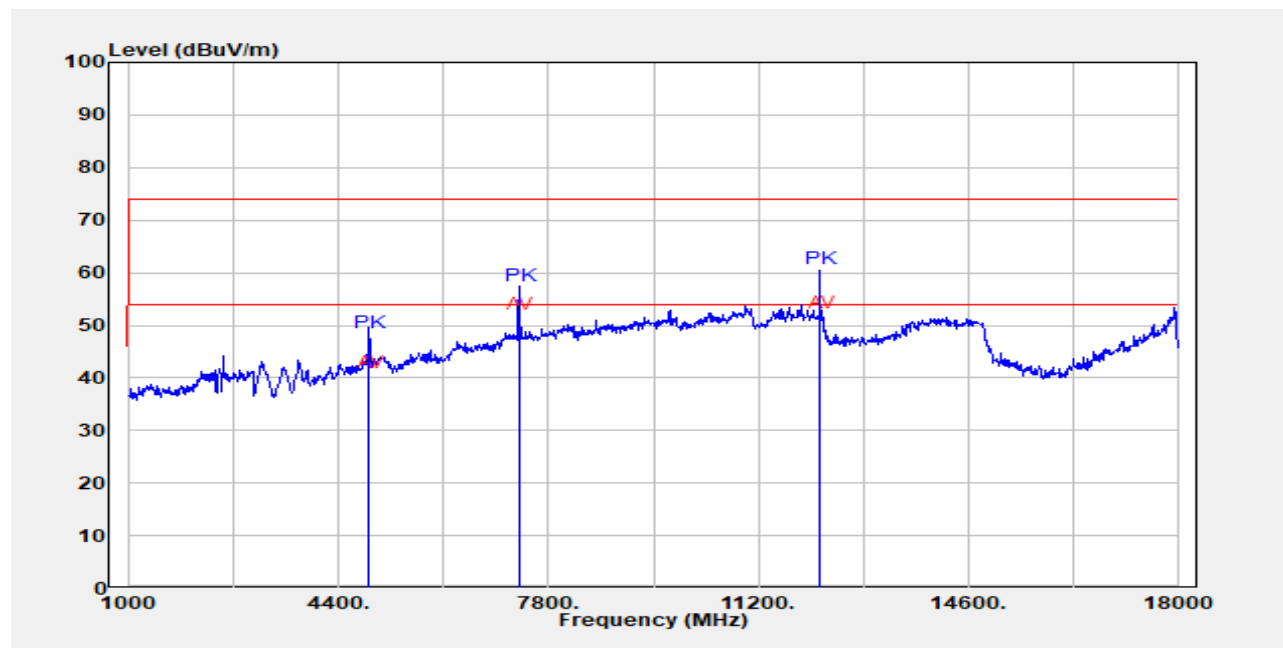
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	38.73	2.25	40.98	54.00	-13.02
4884.00	Peak	46.35	2.25	48.60	74.00	-25.40
7326.00	Average	43.19	8.72	51.91	54.00	-2.09
7326.00	Peak	48.78	8.72	57.50	74.00	-16.50
12210.00	Average	41.26	10.98	52.24	54.00	-1.76
12210.00	Peak	49.77	10.98	60.75	74.00	-13.25

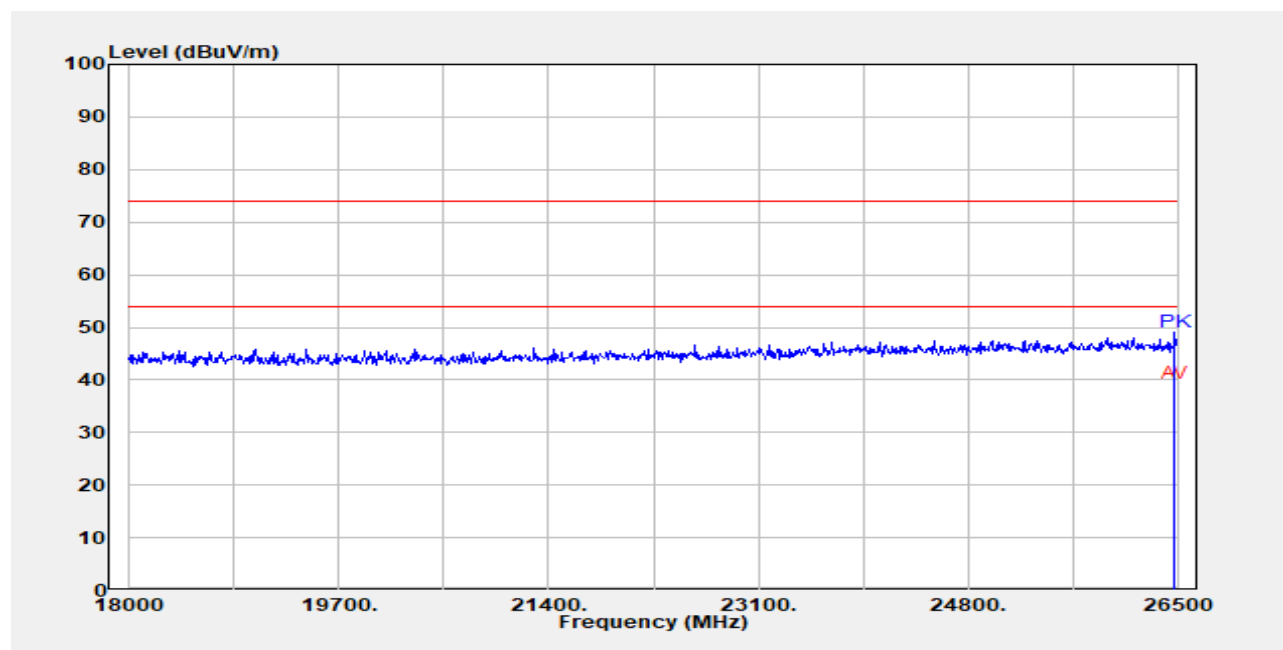
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Report Number :TERF2602000598ER
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2026-03-20
Temp./Humi. :23.7°C/59%
Antenna Pol. :Vertical
Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
26474.50	Average	33.48	5.79	39.27	54.00	-14.73
26474.50	Peak	43.17	5.79	48.96	74.00	-25.04

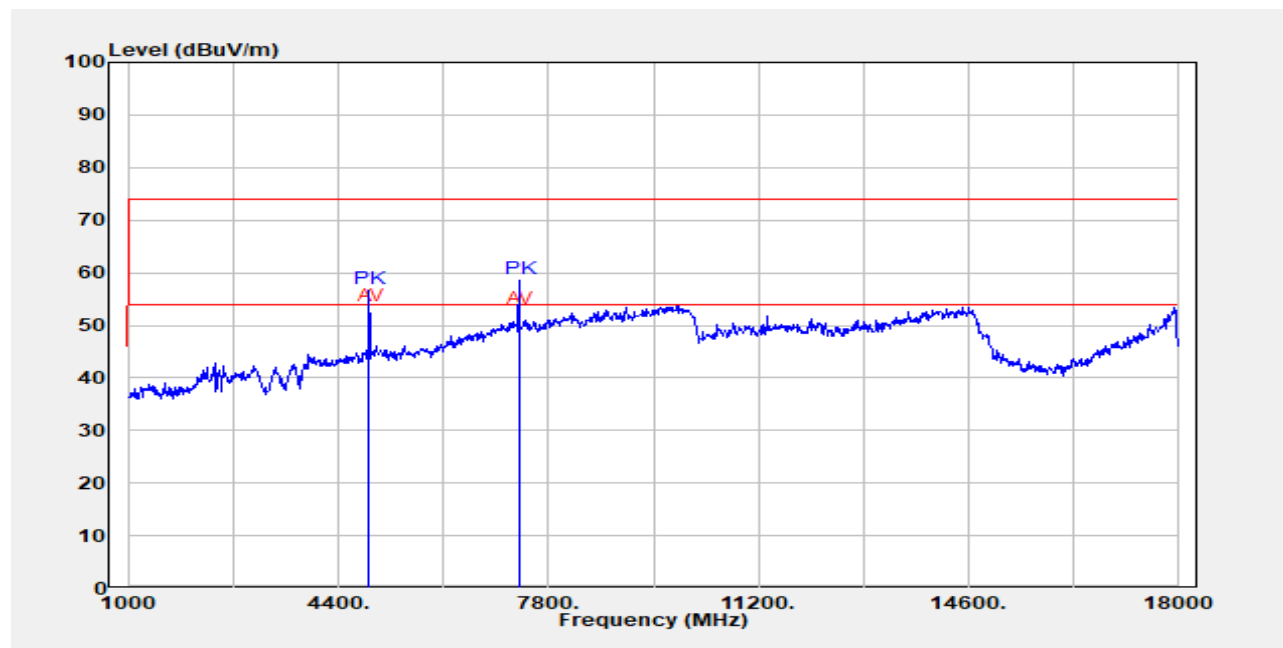
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	50.12	3.42	53.54	54.00	-0.46
4884.00	Peak	53.57	3.42	56.99	74.00	-17.01
7326.00	Average	43.75	9.48	53.23	54.00	-0.77
7326.00	Peak	49.37	9.48	58.85	74.00	-15.15

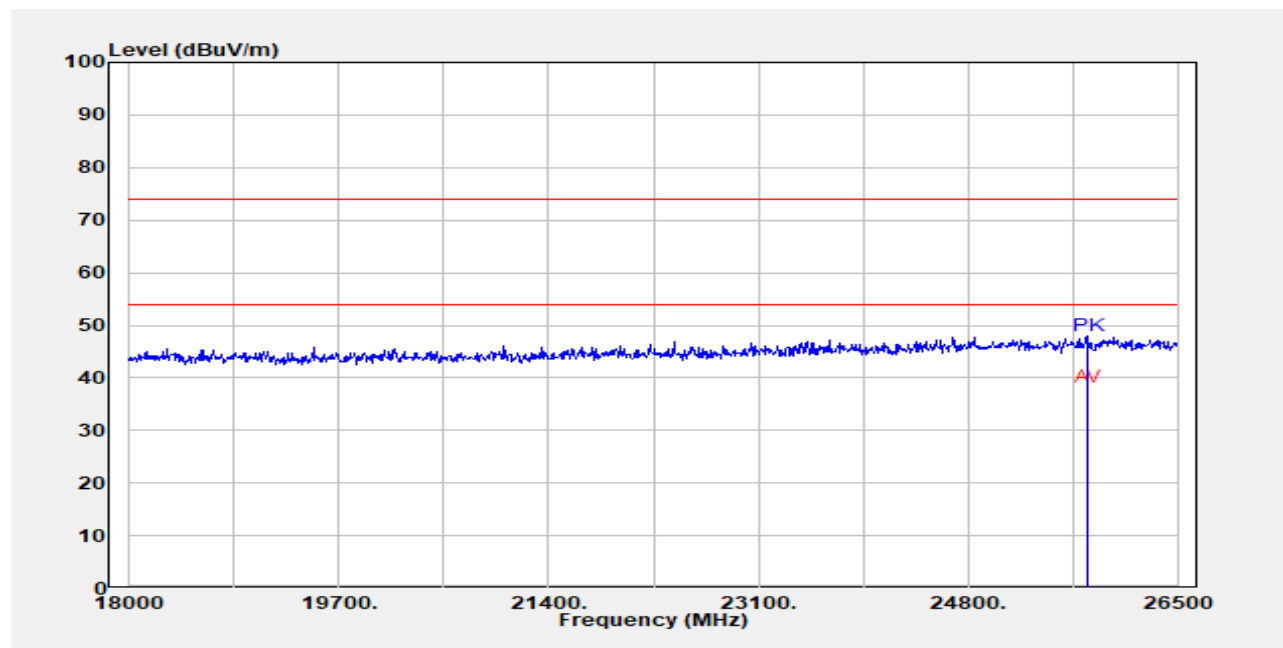
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
25769.00	Average	32.42	5.84	38.26	54.00	-15.74
25769.00	Peak	42.25	5.84	48.09	74.00	-25.91

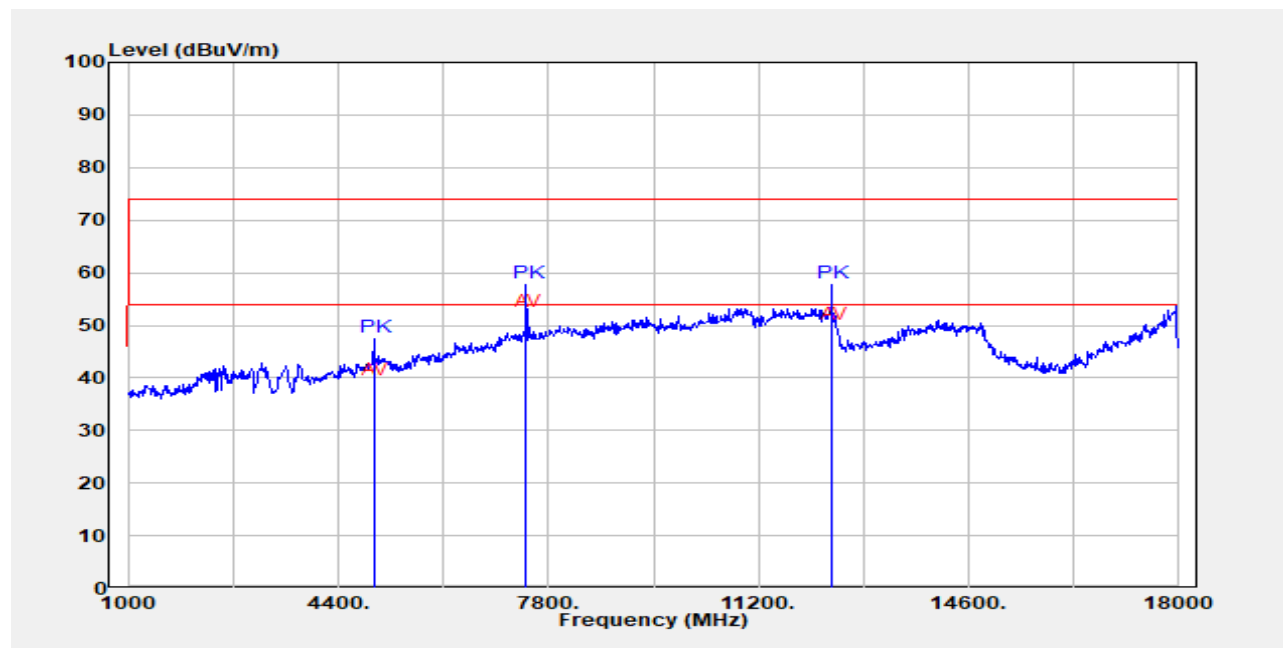
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	37.14	2.52	39.66	54.00	-14.34
4960.00	Peak	45.18	2.52	47.70	74.00	-26.30
7440.00	Average	44.02	8.67	52.69	54.00	-1.31
7440.00	Peak	49.41	8.67	58.08	74.00	-15.92
12400.00	Average	40.44	9.69	50.13	54.00	-3.87
12400.00	Peak	48.31	9.69	58.00	74.00	-16.00

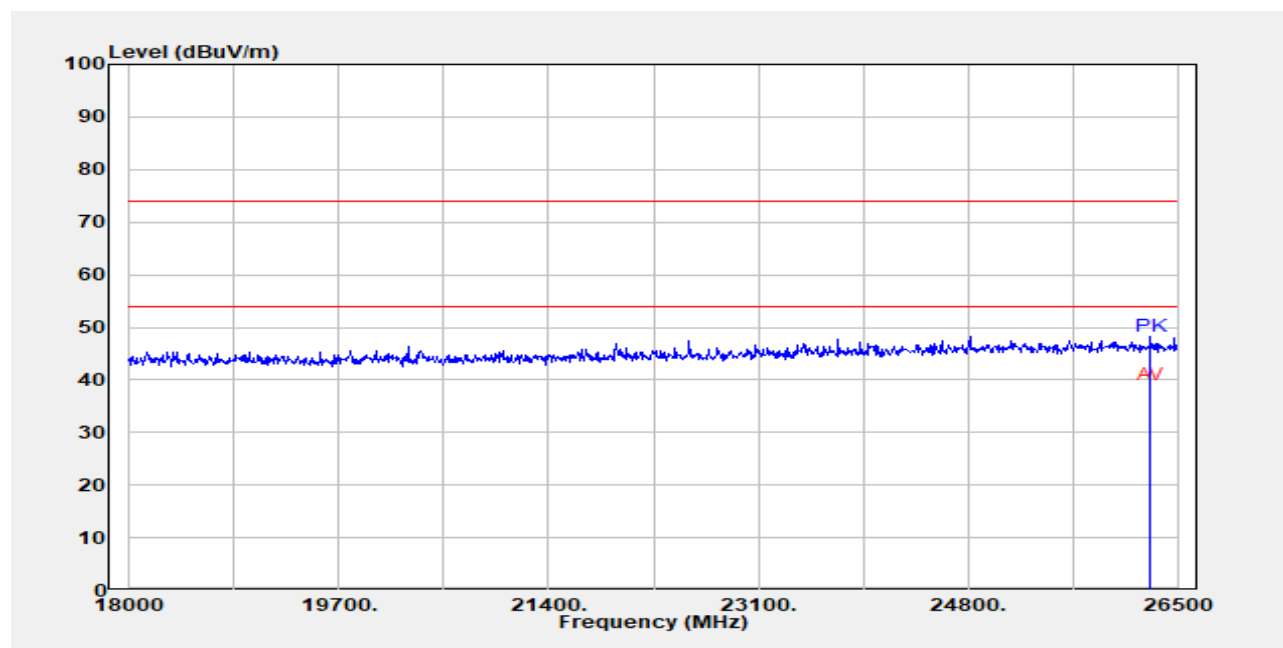
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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Vertical
 Engineer :WJ Lin



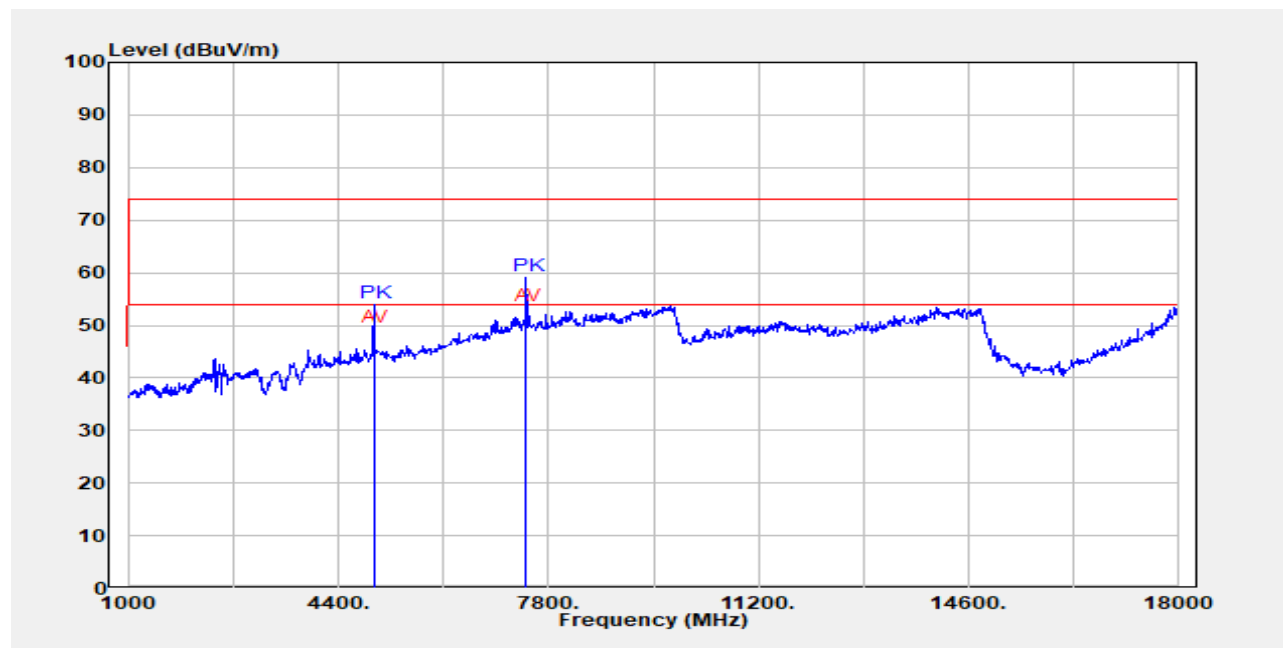
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
26279.00	Average	33.57	5.55	39.12	54.00	-14.88
26279.00	Peak	42.71	5.55	48.26	74.00	-25.74

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Report Number :TERF2602000598ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2026-03-20
 Temp./Humi. :23.7°C/59%
 Antenna Pol. :Horizontal
 Engineer :WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	45.67	3.79	49.46	54.00	-4.54
4960.00	Peak	50.52	3.79	54.31	74.00	-19.69
7440.00	Average	44.09	9.59	53.68	54.00	-0.32
7440.00	Peak	49.87	9.59	59.46	74.00	-14.54

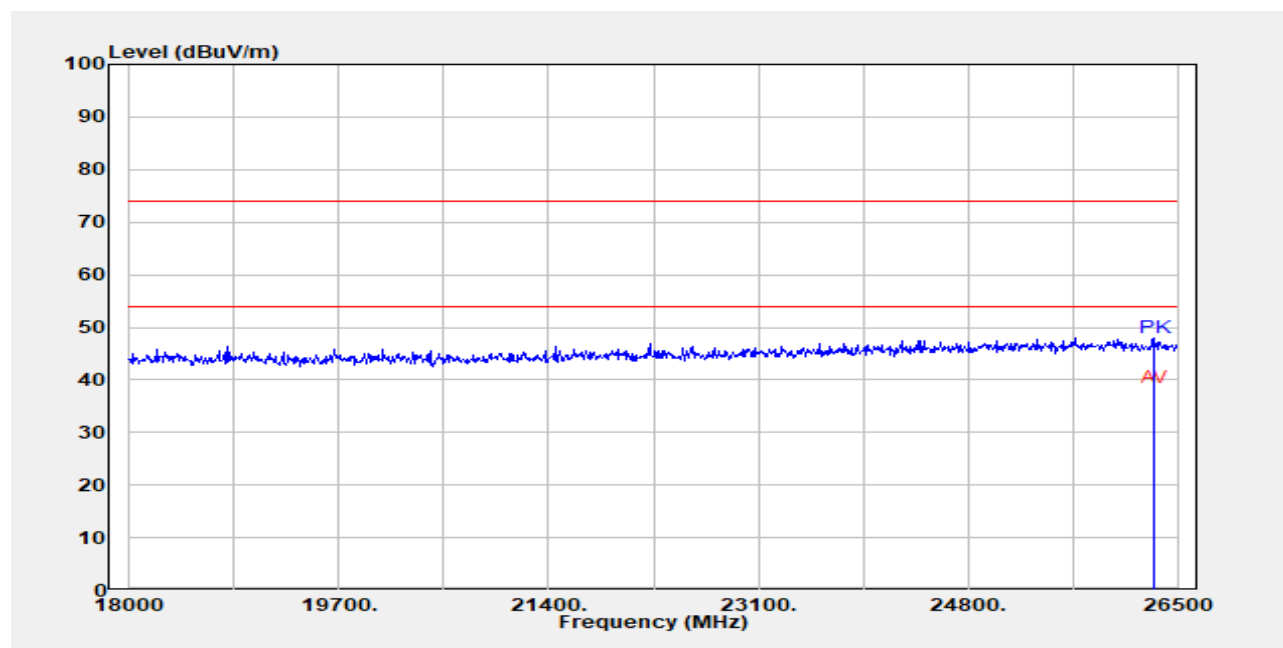
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Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
26304.50	Average	32.85	5.55	38.40	54.00	-15.60
26304.50	Peak	42.53	5.55	48.08	74.00	-25.92

7.7 AC Power Line Conducted Emission

N/A; Powered from AA battery.

~ End of Report ~

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