

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Sonova Consumer Hearing GmbH
Im Heidkampe 9, 30659 Hannover, Germany

Manufacturer: Sonova Consumer Hearing GmbH
Im Heidkampe 9, 30659 Hannover, Germany

Product Name: MOMENTUM 5

Brand Name: SENNHEISER

Model No. M5AEBT

Report Number: TERF2512004348ER

FCC ID 2A3ULM5AEBT

Date of EUT Received: December 11, 2025

Date of Test: December 15, 2025 ~ December 30, 2025

Issue Date: March 13, 2026

Alex Hsieh

Approved By _____
Alex Hsieh

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
TERF2512004348ER	00	Original	March 13, 2026	Sharon Cheng	

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

Test Item Description	Wireless Headphones
Product Name	MOMENTUM 5
Model No.	M5AEBT
Brand Name	SENNHEISER
Status of EUT	Engineering sample
HW version	0x01
SW version	6.6.1
Power Ratings	5Vdc, 800 mA (from Type-C USB) 3.7Vdc, 700mAh (from battery)
Power Supply (Nominal & Testing)	5Vdc, 800 mA (from Type-C USB) 3.7Vdc, 700mAh (from battery)
Cable supplied	1.2m USB C-C shielded cable without core
Test Software (Name/Version)	Blue Test 3

Note:

- 1、Variant information of main & alternate battery sources is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
- 2、The two battery sources are identified as the 1st battery and the 2nd battery. In response to the above differences, Unwanted Emissions was performed, and the data is presented as 1st and 2nd.

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1.2 RF Specification

Technology	Bluetooth
Operating Frequency	BLE 1M/2M: 2402 - 2480MHz QHS: 2402 - 2480MHz (for Frequency Band: 2400-2483.5MHz)
No. of channels	BLE 1M/2M: 40 QHS: 40
Channel Spacing	BLE 1M/2M: 2MHz QHS: 2MHz
Channel Bandwidth	BLE 1M/2M: 80MHz QHS: 80MHz
Data Transfer Rate	BLE 4.0: 1Mbps , BLE 5.4: 2Mbps QHS: HSL2- 2Mbps, HSL 3- 3Mbps, HSL 4- 4Mbps, HSL 5- 5Mbps, HSL 6- 6Mbps (Representative Rate: 6Mbps)
Modulation Type	BLE 1M/2M: GFSK QHS: $\pi/4$ QPSK (HSL2, HSL3), $\pi/4$ DQPSK (HSL4), 8PSK (HSL5), D8PSK (HSL6)
Transmission Technology	BLE 1M/2M and QHS: DSSS
Maximum Transmit Power	BLE 1M: 7.39 dBm BLE 2M: 7.38 dBm QHS (6Mbps): 8.30 dBm
Operating Temperature range	0°C - +40°C

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1.3 Antenna Designation

Ant. Type	Brand	Model	Freq. (MHz)	Peak Gain(dBi)
FPC Antenna	SONOVA	M5AEBT	2400~2483.5	1.64

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.

1.4 Operating Frequencies

BLE and QHS

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

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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.

BLE mode

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE_1M	0 to 39	0,20,39	GFSK	1
Bluetooth LE_2M	0 to 39	0,20,39	GFSK	2

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
Bluetooth LE	0 to 39	0,20,39	GFSK	2

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QHS mode

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
QHS(6Mbps)	0 to 39	0,20,39	D8PSK	6

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
QHS(6Mbps)	0 to 39	20	D8PSK	6

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
QHS(6Mbps)	0 to 39	0,20,39	D8PSK	6

RECEIVE RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
QHS(6Mbps)	0 to 39	20	—

RECEIVE RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
QHS(6Mbps)	0 to 39	20	—

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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	
§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)	Power Spectral Density	Compliant	
§15.203	Antenna Requirement	Compliant	N

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 TERF2512004351ER.

2.1 Test Methodology of Applied Standards

- 1 FCC Part 15, Subpart C §15.247
- 2 ANSI C63.10-2020
- 3 FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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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	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Test Condition	Test Site name	Test Engineer	Test Environment (T&H)	Test Date
Conducted	Conducted 2	Teddy Lu	20~25°C / 55~65%	2025/12/19 ~ 2025/12/30

Measurement	Test Engineer	DUT S/N	Test Date
Conducted	Teddy Lu	44252SN2H40000012	2025/12/19 ~ 2025/12/30
Radiated	Dante Ding	0455992062	2025/12/26 ~ 2025/12/30
Conduction	Dante Ding	0455992062	2025/12/26 ~ 2025/12/30

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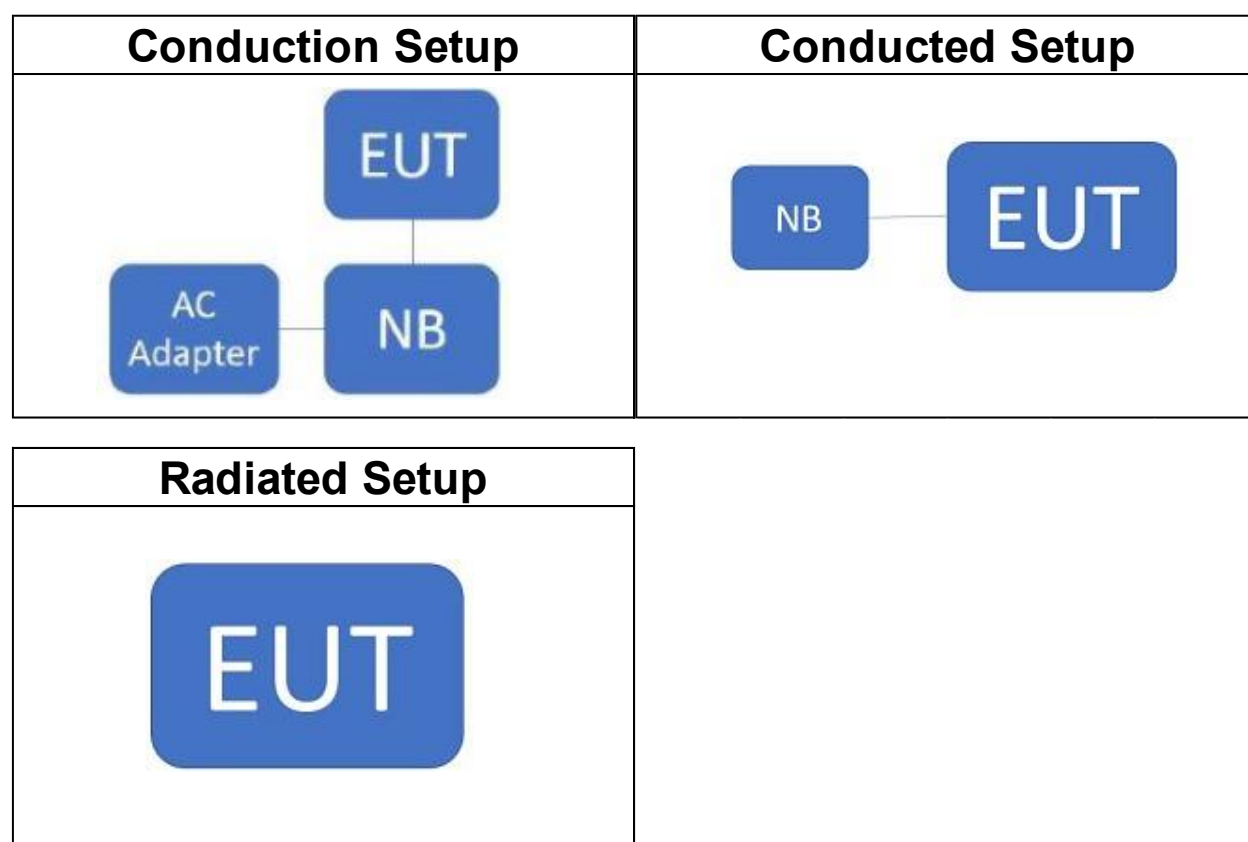
3 CONTROL UNIT(S) AND PERIPHERAL(S)

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

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
M5 USB C-Cable	DT	BT.064002	N/A	N/A	N/A
Adapter	CYKE	CYKE-K39	6971326134400	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
M5 USB C-C Cable	DT	BT.064002	N/A	N/A	N/A
Notebook	Lenovo	T440P	PB-02Y6RK 14/07	N/A	N/A

3.3.3 Radiated Setup

N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	6	12/07/2025	12/06/2026
DC Block	Titan	T0610A00127A	SNK47008	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2025	04/09/2026
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	Titan	T04N2400248350S01	23040703-10	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
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/29/2025	10/28/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	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

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4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
LISN	SCHWARZBECK	NSLK 8127	1040	09/13/2025	09/12/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
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

FCC

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

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

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

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.

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.

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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.

In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

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

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

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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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.
3. 6dB BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
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 Trace mode = Max Hold.
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
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 Trace mode = Max Hold,
Use the 99% power bandwidth function of the spectrum analyzer.
Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle



Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

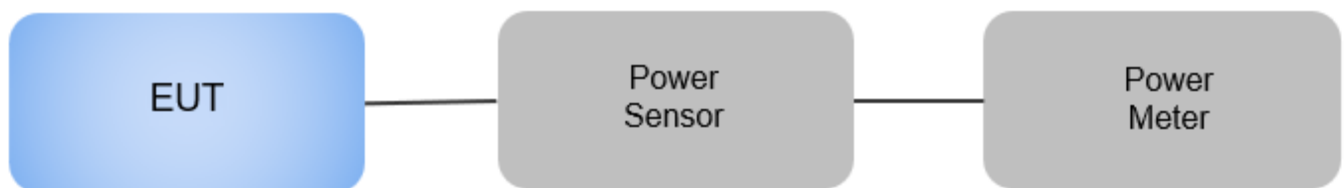
VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

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 to transmit mode.
2. The testing was performed in accordance with the applicable measurement procedure.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. Record the maximum reading as observed from the power meter.
5. Repeat the above procedures until all default test channels have been measured.

Note: The duty cycle factor is applied to obtain the average measurement corrected to its maximum equivalent.

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

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6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak.

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Note: When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.
Set the analyzer center frequency to the DTS channel center frequency.
Set the span to 1.5 times the DTS channel bandwidth.
Set RBW = 100 kHz and VBW = 300 kHz.
Detector = Peak.
Sweep time = Auto Couple.
Trace mode = Max Hold.
Allow the trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.
Configure the spectrum analyzer as follows:
RBW = 100 kHz
VBW = 300 kHz
Detector = Peak
Sweep = Auto
Mark the highest reading of the emission as the reference level.
Set DL as the limit = reading on marker of reference level measurement
Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.
5. Repeat the above procedure for each default test channel (low, middle, and high).

6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
Configure the spectrum analyzer as follows:
RBW = 100 kHz
VBW = 300 kHz
Detector = Peak
Sweep = Auto.
Allow the trace to fully stabilize.
Use the peak marker function to determine the maximum power level in any 100

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kHz band segment within the fundamental emission bandwidth (EBW).

3. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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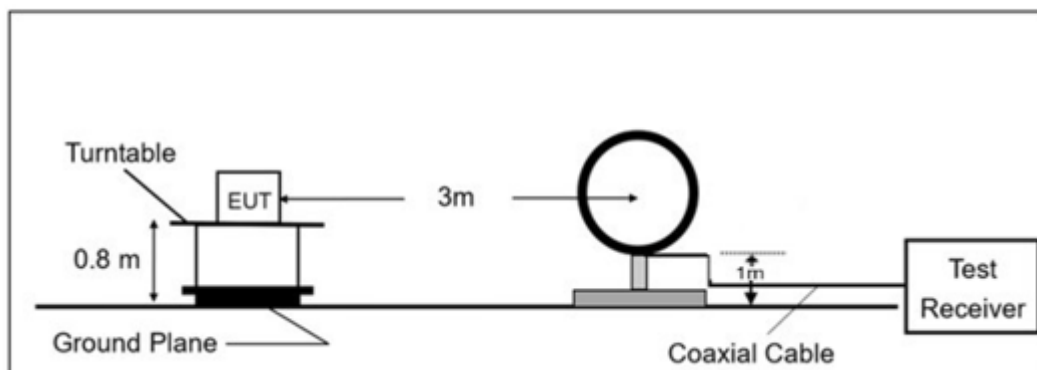
6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

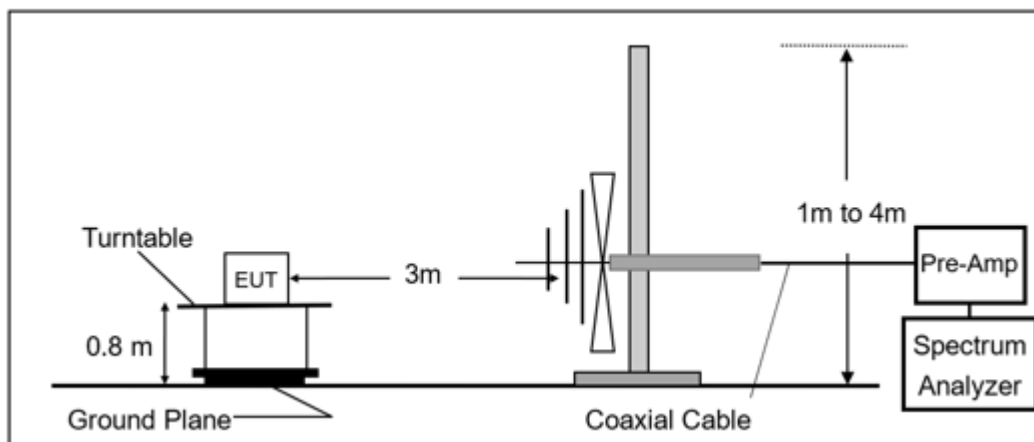
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



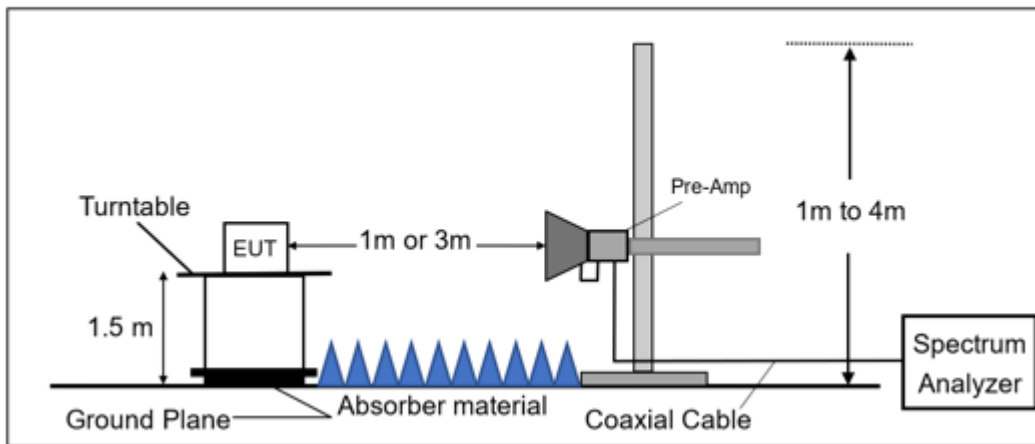
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz when $D \geq 98\%$. If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$, Detector= Peak when $D < 98\%$ for Average Emission Measurements at frequency above 1 GHz.
10. The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of $20 \times \log_{10} (T_{on} / 100 \text{ ms})$.
11. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
12. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
13. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
14. Repeat the above procedures until all default test channels (low, middle, and high)

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are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

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

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

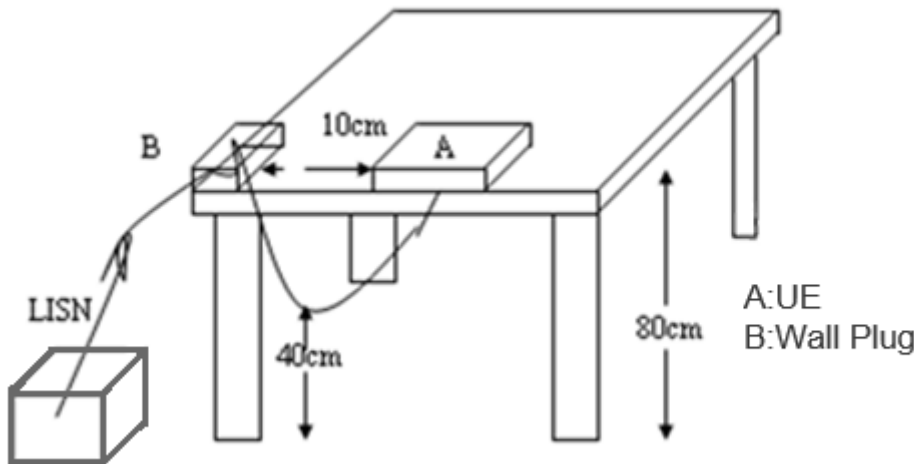
AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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6.6 AC Power Line Conducted Emission



The conducted emission tests were performed at the designated test site using a setup in accordance with the applicable version of ANSI C63.10

1. 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. Two LISNs were used to provide 50 μ H / 50 ohm coupling impedance to the measuring instrument. Both lines of the AC power mains connected to the EUT were evaluated to identify the maximum conducted interference.
2. The AC/DC power adapter of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, maintaining at least 0.4 meters of separation from the shielding wall.
3. The LISNs were connected to the power source and configured in accordance with the test requirements.
4. The maximum emission levels were investigated for each operating mode. The six highest emissions were further maximized to ensure compliance.
5. The above procedures were repeated for all applicable power supply configurations of the EUT.

Calculation Formula:

Level = Read Level + Factor

Factor = LISN/ISN/Current Probe Factor + Cable Loss + Attenuator

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 6dB BW measurements

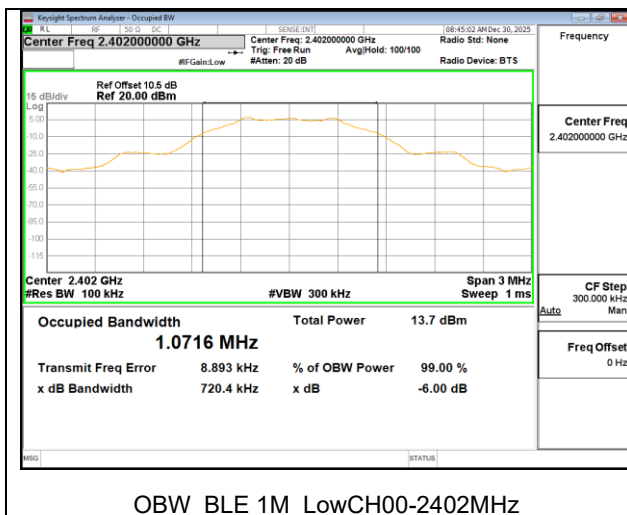
BLE mode

BLE 1M mode

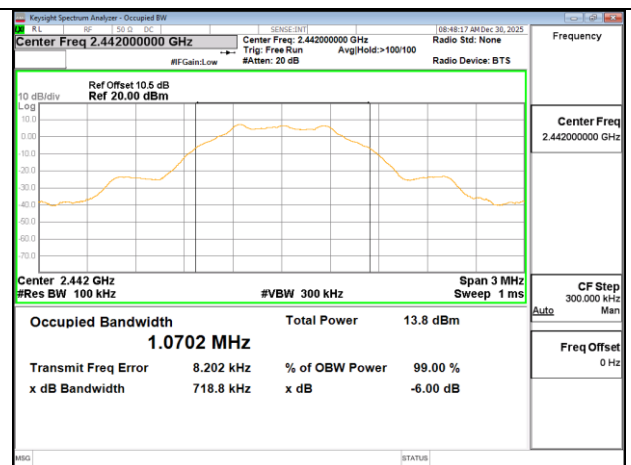
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7204	≥ 0.5	PASS
2442	0.7188	≥ 0.5	PASS
2480	0.7179	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.259	≥ 0.5	PASS
2442	1.261	≥ 0.5	PASS
2480	1.254	≥ 0.5	PASS



OBW_BLE 1M_LowCH00-2402MHz

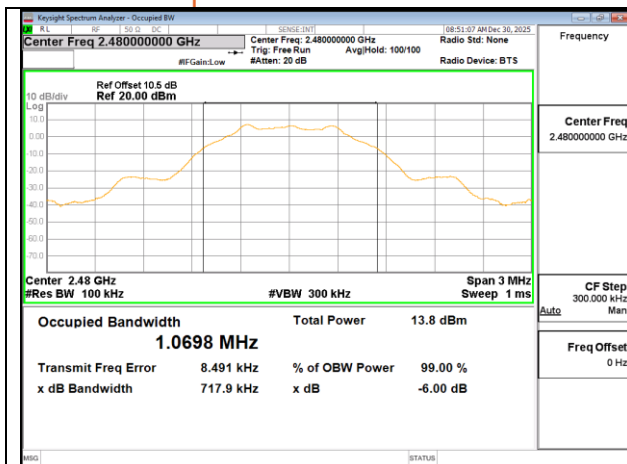


OBW_BLE 1M_MidCH20-2442MHz

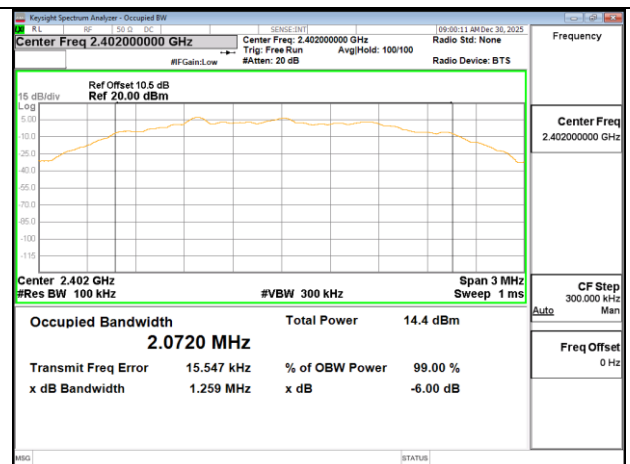
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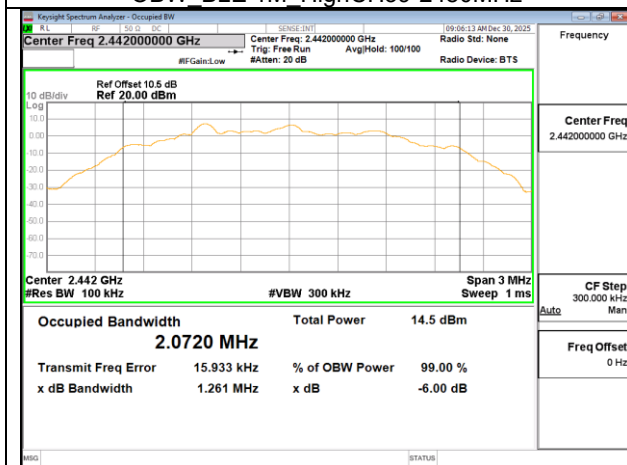
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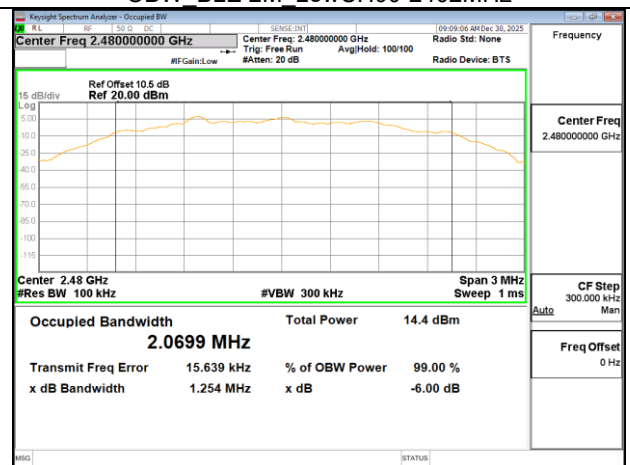
OBW_BLE 1M_HighCH39-2480MHz



OBW_BLE 2M_LowCH00-2402MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 2M_HighCH39-2480MHz

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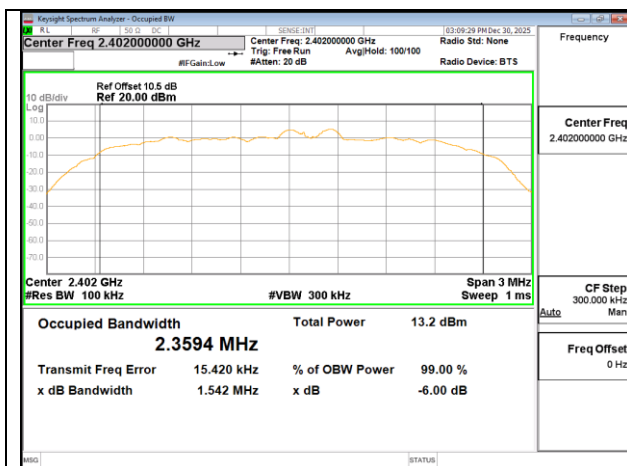
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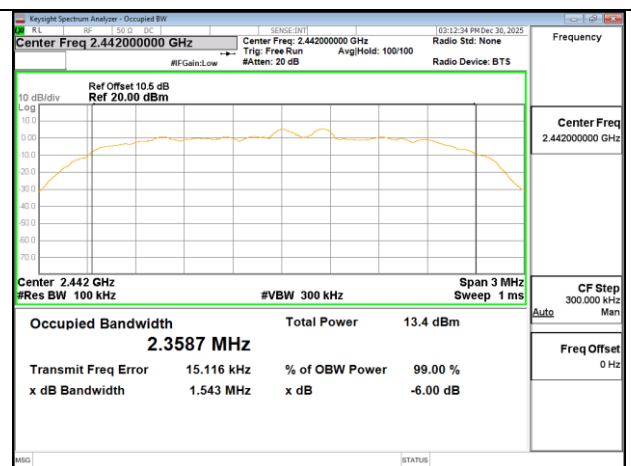
QHS mode

QHS mode

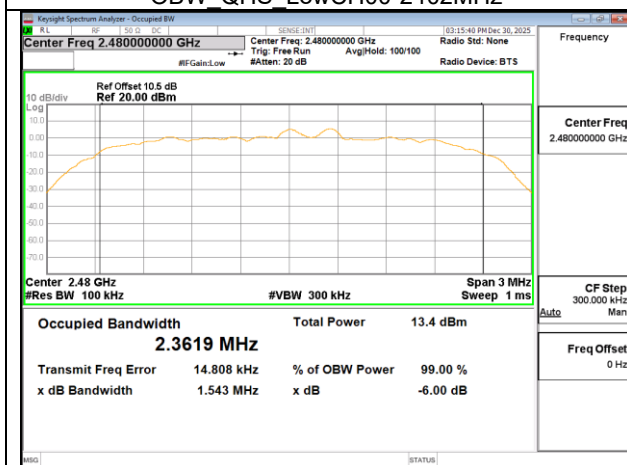
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.542	≥ 0.5	PASS
2442	1.543	≥ 0.5	PASS
2480	1.543	≥ 0.5	PASS



OBW_QHS_LowCH00-2402MHz



OBW_QHS_MidCH20-2442MHz



OBW_QHS_HighCH39-2480MHz

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7.1.2 99% Bandwidth

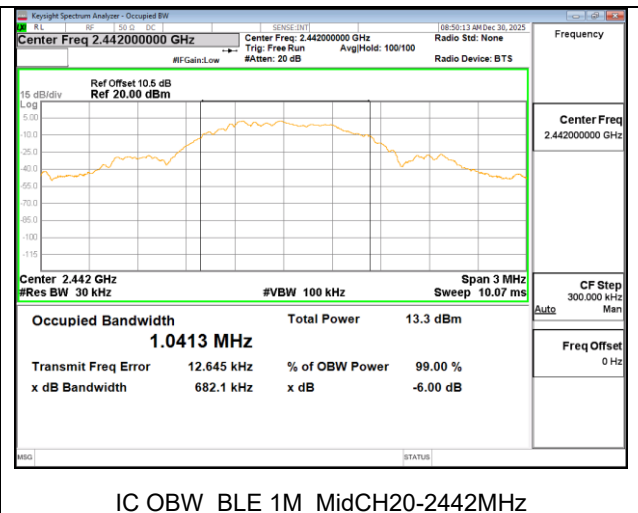
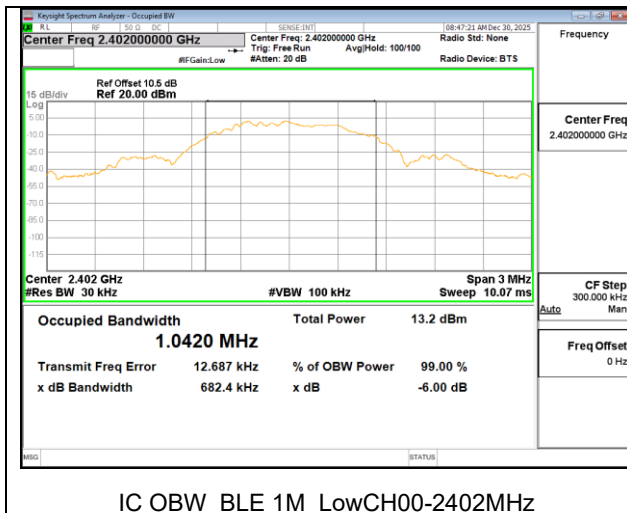
BLE mode

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.042
2442	1.0413
2480	1.0411

BLE 2M mode

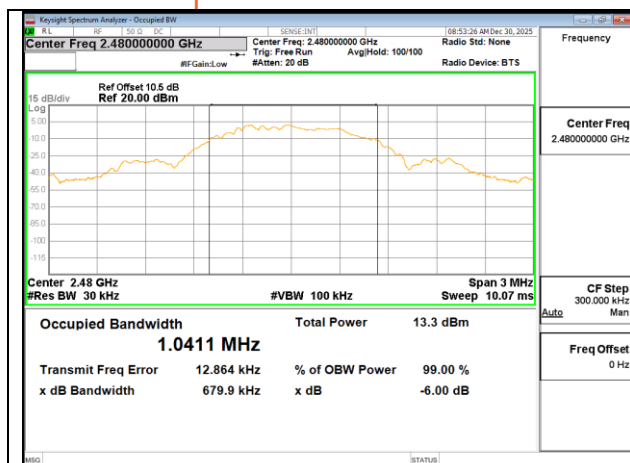
Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0705
2442	2.0707
2480	2.0682



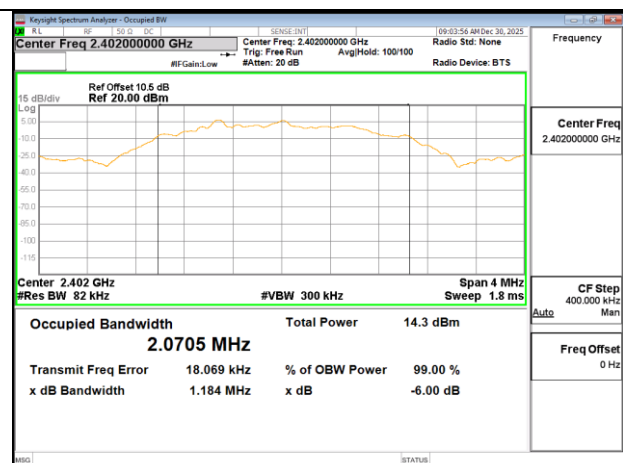
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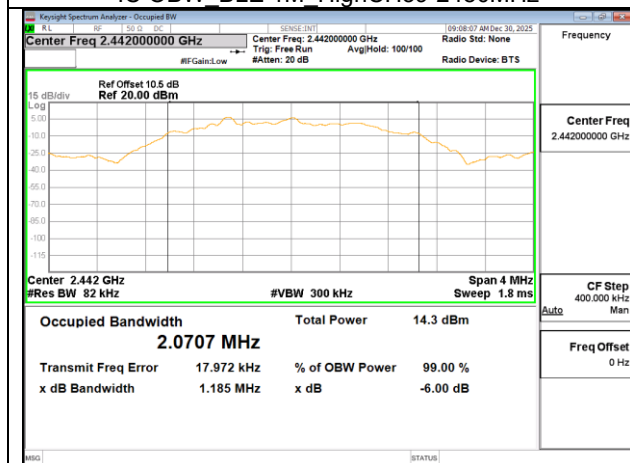
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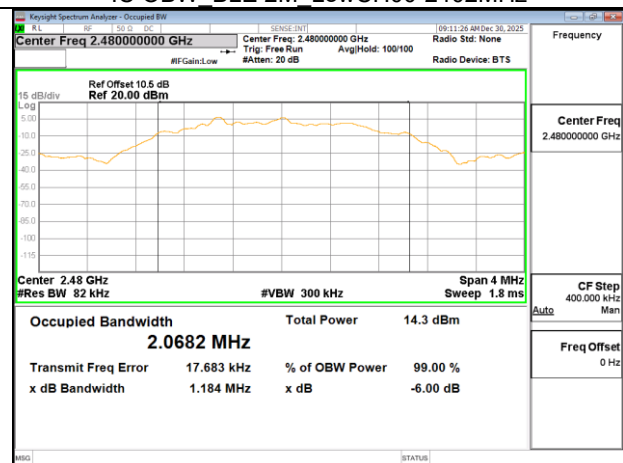
IC OBW BLE 1M_HighCH39-2480MHz



IC OBW BLE 2M_LowCH00-2402MHz



IC OBW BLE 2M_MidCH20-2442MHz



IC OBW BLE 2M_HighCH39-2480MHz

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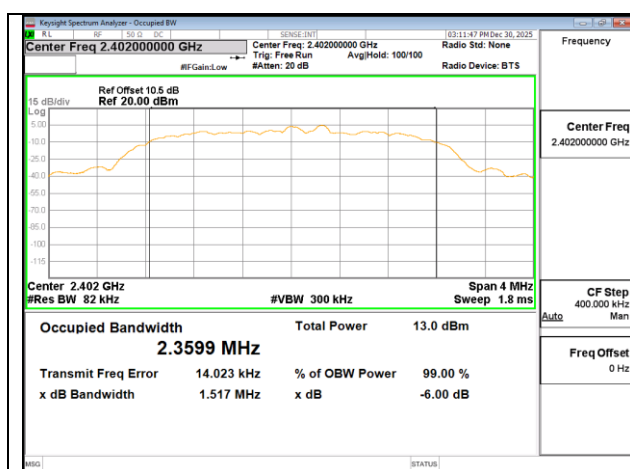
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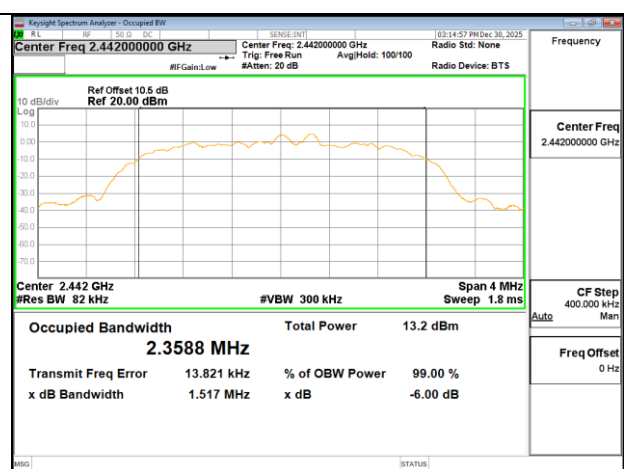
QHS mode

QHS mode

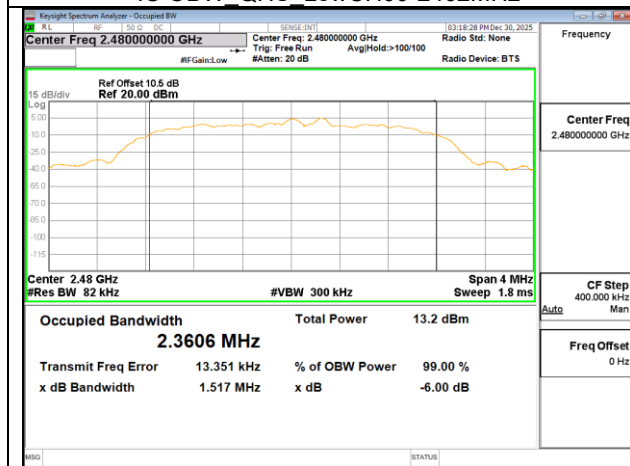
Frequency (MHz)	99%Bandwidth (MHz)
2402	2.3599
2442	2.3588
2480	2.3606



IC OBW QHS LowCH00-2402MHz



IC OBW QHS MidCH20-2442MHz



IC OBW QHS HighCH39-2480MHz

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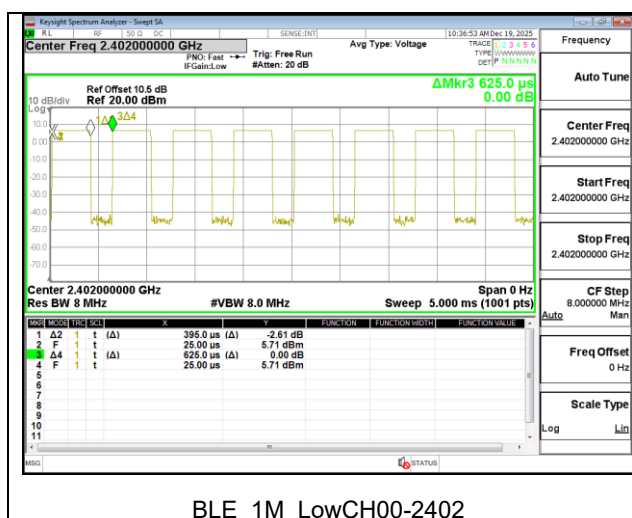
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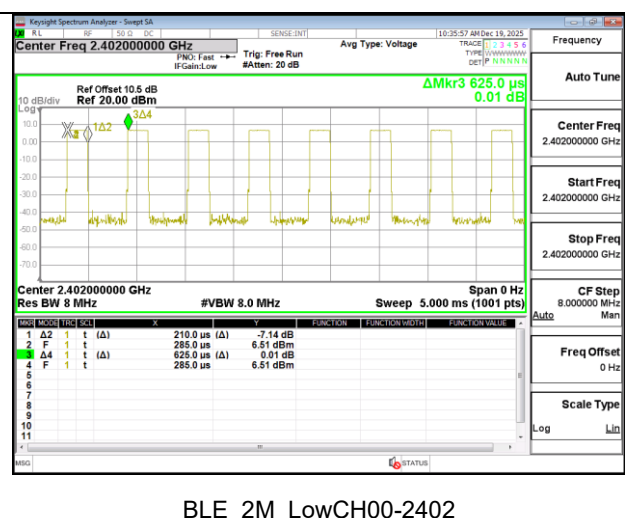
7.2 Duty Factor

BLE mode

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	33.40	4.76	4.76	5.00



BLE_1M_LowCH00-2402



BLE_2M_LowCH00-2402

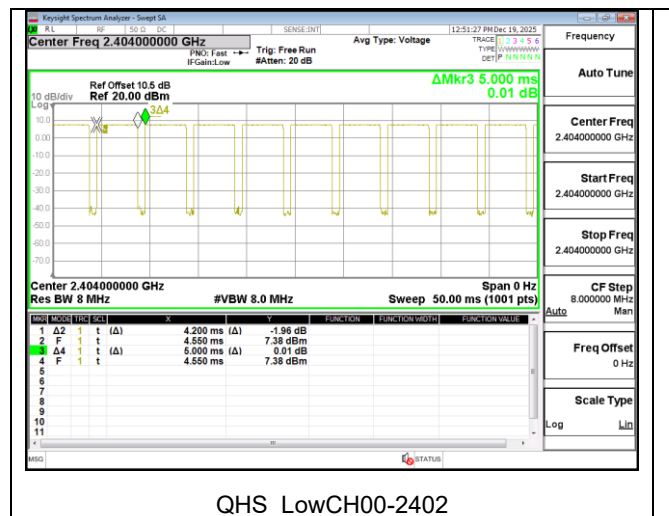
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QHS mode

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
QHS	84.00	0.76	0.24	1.00



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7.3 Maximum Output Power

7.3.1 Peak & Avg

BLE mode

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.31	30
20	2442	default	7.39	30
39	2480	default	7.33	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.14	30
20	2442	default	7.26	30
39	2480	default	7.16	30

*Note:

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

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BLE 2M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.29	30
20	2442	default	7.38	30
39	2480	default	7.33	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	default	7.19	30
20	2442	default	7.22	30
39	2480	default	7.17	30

***Note:**

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

QHS mode
QHS mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	6	8.16	30
20	2442	6	8.30	30
39	2480	6	8.30	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	6	5.45	30
20	2442	6	5.69	30
39	2480	6	5.71	30

***Note:**

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

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7.4 Maximum Power Spectral Density

BLE mode

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-8.52	8	PASS
2442	-8.33	8	PASS
2480	-8.35	8	PASS

***Note:**

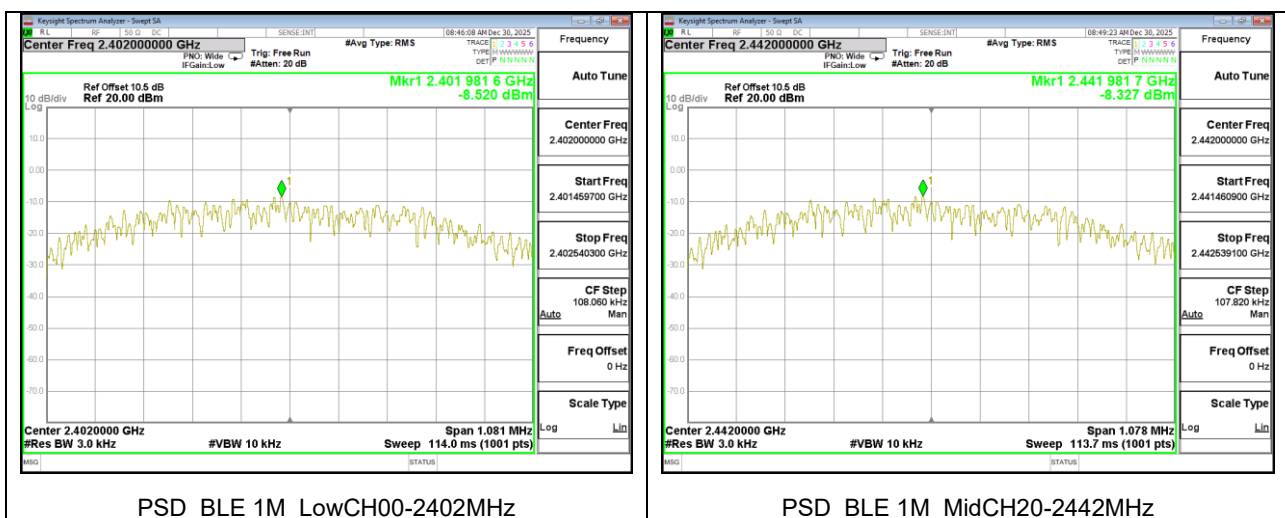
1.cable loss as 10.5 dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-11.95	8	PASS
2442	-11.86	8	PASS
2480	-11.92	8	PASS

***Note:**

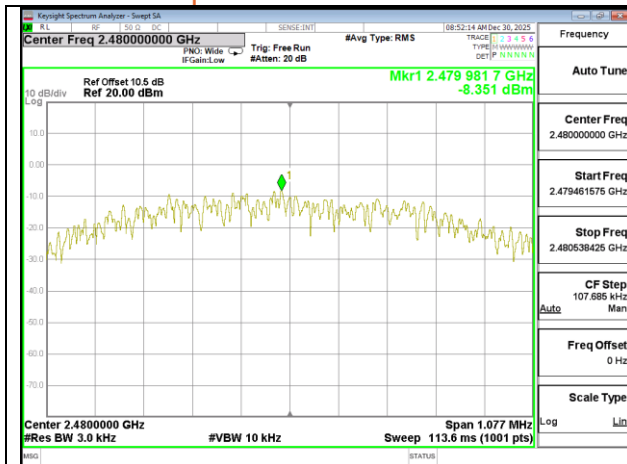
1.cable loss as 10.5 dB that offsets in the spectrum



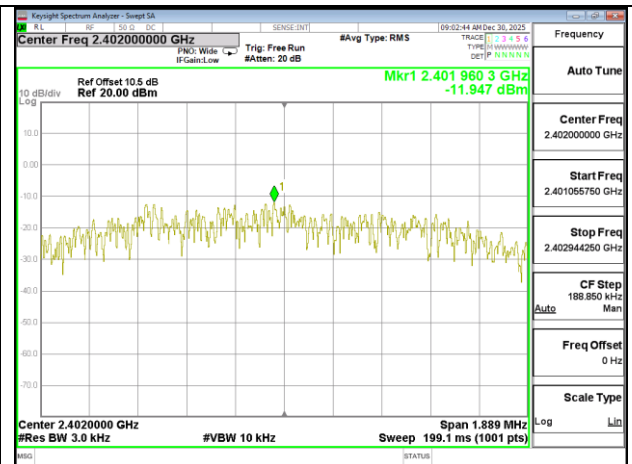
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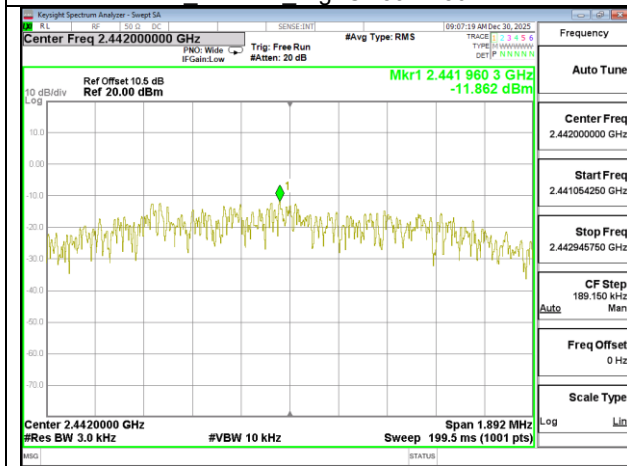
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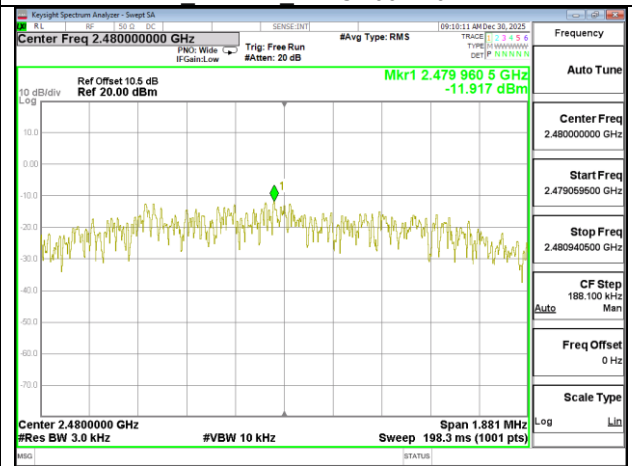
PSD BLE 1M HighCH39-2480MHz



PSD BLE 2M LowCH00-2402MHz



PSD BLE 2M MidCH20-2442MHz



PSD BLE 2M HighCH39-2480MHz

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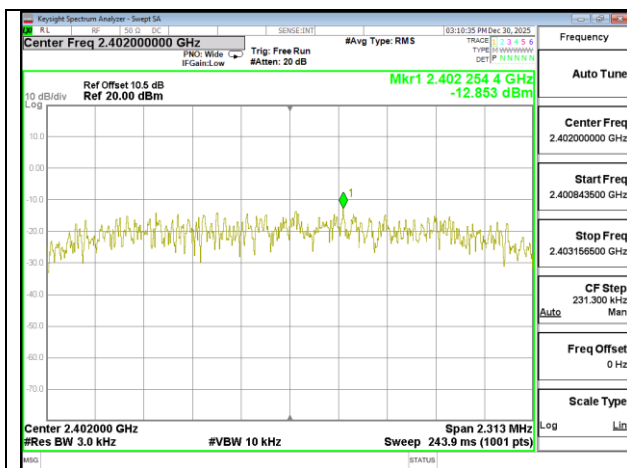
QHS mode

QHS mode

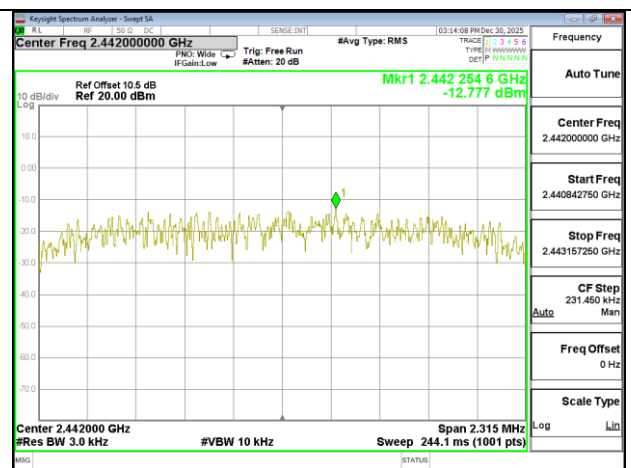
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.85	8	PASS
2442	-12.78	8	PASS
2480	-12.74	8	PASS

***Note:**

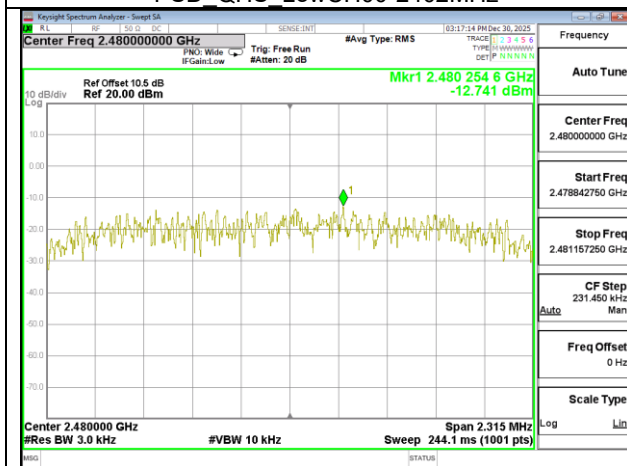
1.cable loss as 10.5 dB that offsets in the spectrum



PSD_QHS_LowCH00-2402MHz



PSD_QHS_MidCH20-2442MHz



PSD_QHS_HighCH39-2480MHz

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7.5 Out of Band Emission

BLE mode

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	6.94	-13.06
2442	7.07	-12.93
2480	7.03	-12.97

***Note:**

- 1.cable loss as 10.5 dB that offsets in the spectrum
- 2.Refer to next page for plots.

BLE 2M_Reference Level of Limit

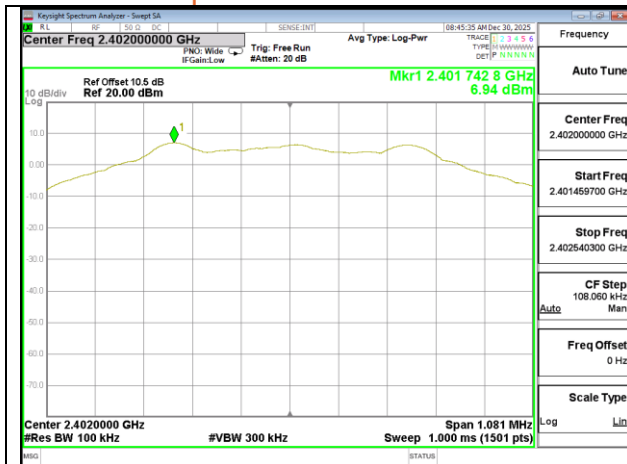
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	6.92	-13.08
2442	7.07	-12.93
2480	6.94	-13.06

***Note:**

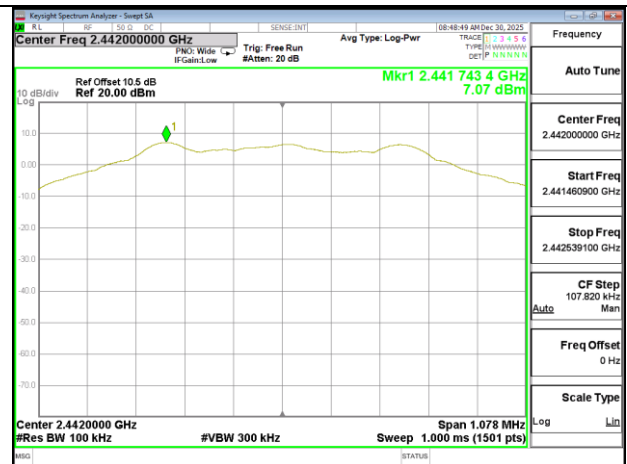
- 1.cable loss as 10.5 dB that offsets in the spectrum
- 2.Refer to next page for plots.

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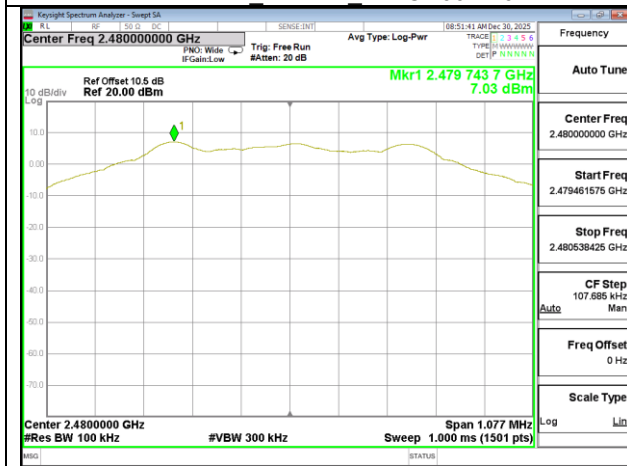
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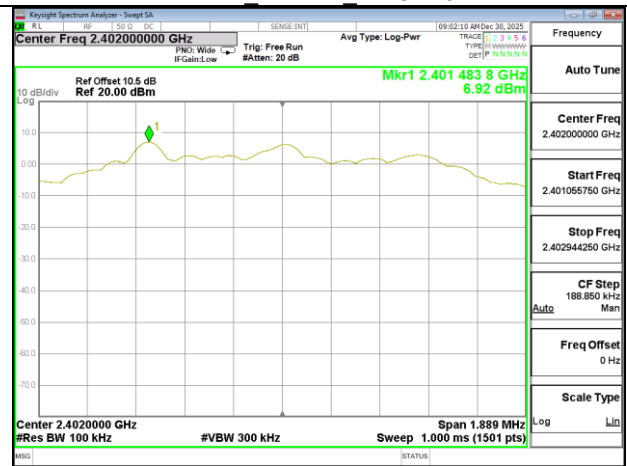
Reference Level BLE 1M LowCH00-2402MHz



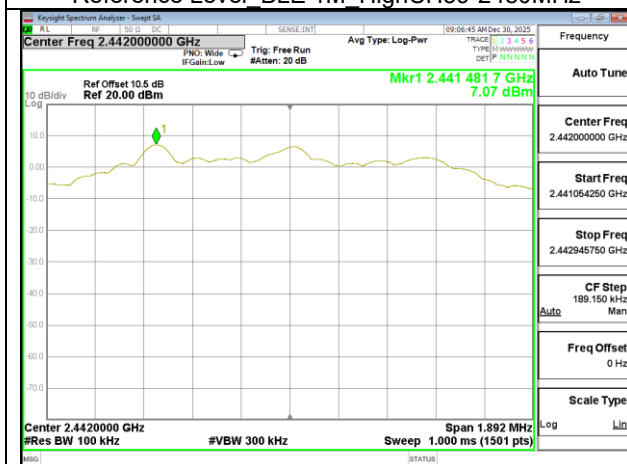
Reference Level BLE 1M MidCH20-2442MHz



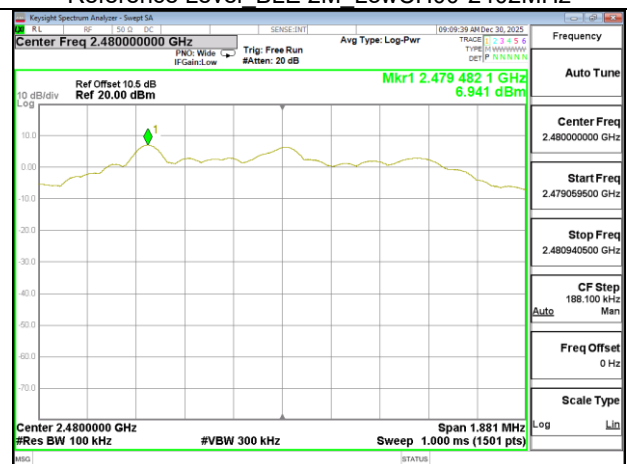
Reference Level BLE 1M HighCH39-2480MHz



Reference Level BLE 2M LowCH00-2402MHz



Reference Level BLE 2M MidCH20-2442MHz

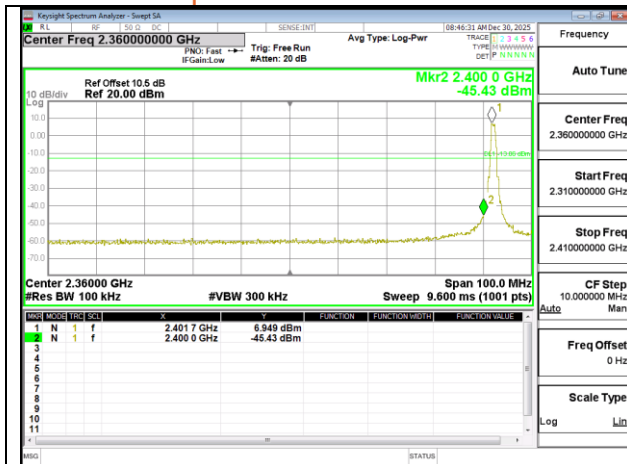


Reference Level BLE 2M HighCH39-2480MHz

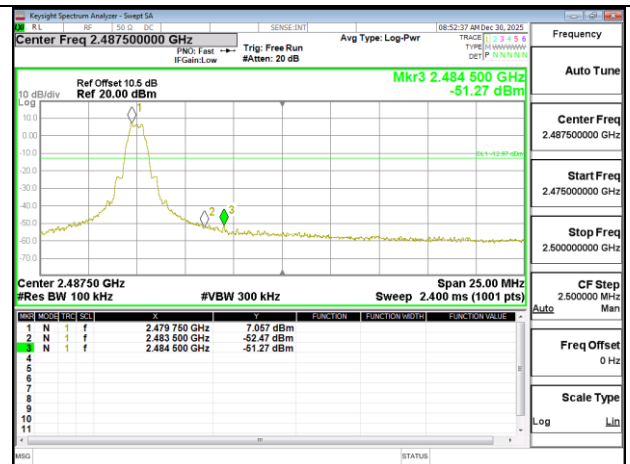
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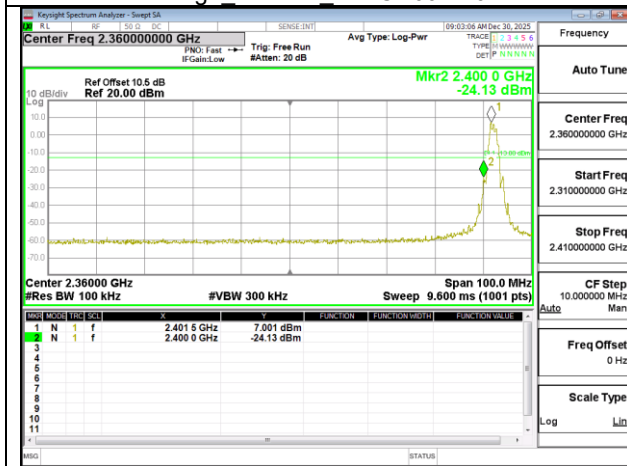
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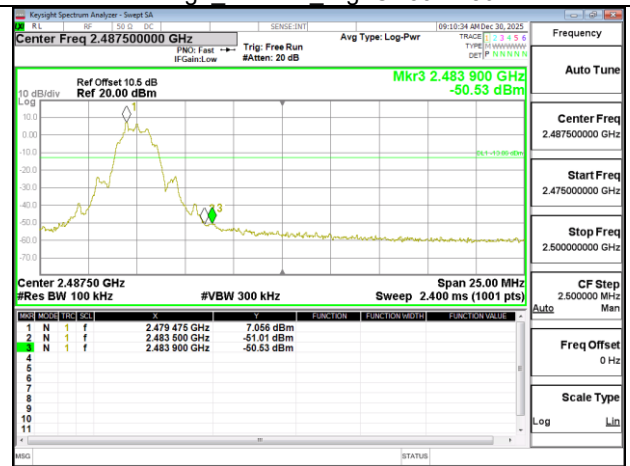
Band Edge BLE 1M LowCH00-2402MHz



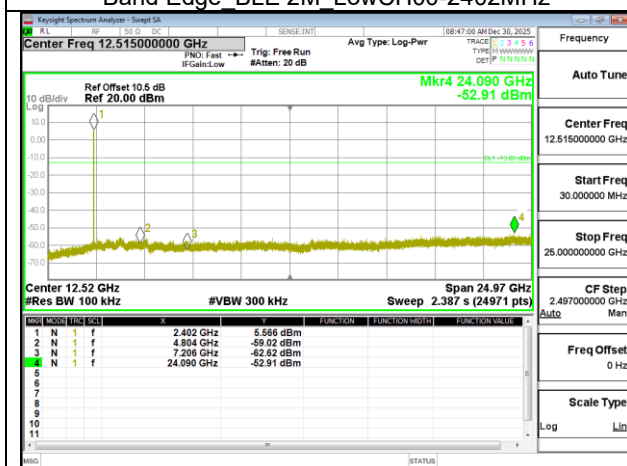
Band Edge BLE 1M HighCH39-2480MHz



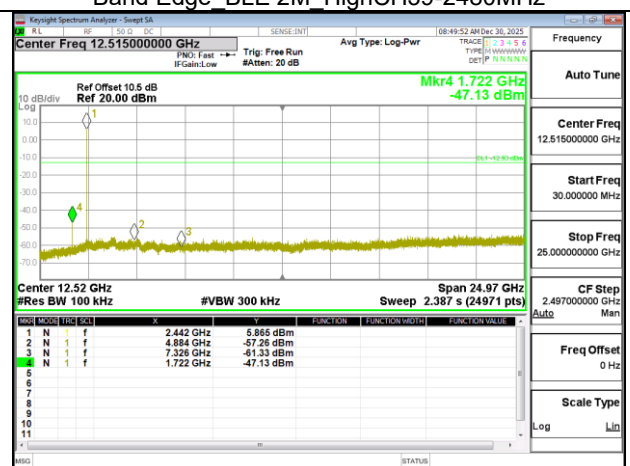
Band Edge BLE 2M LowCH00-2402MHz



Band Edge BLE 2M HighCH39-2480MHz



Spurious Emission BLE 1M LowCH00-2402MHz

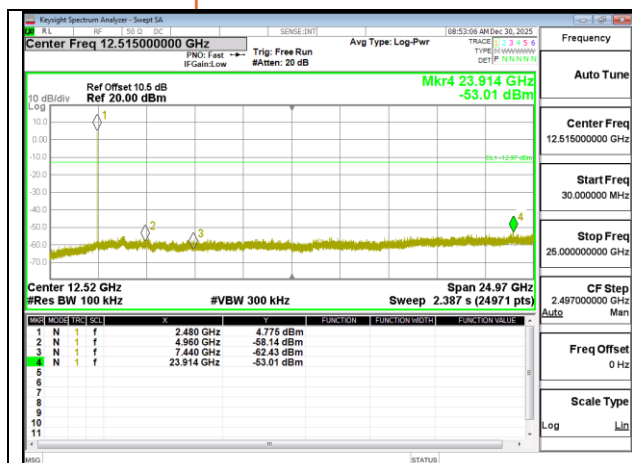


Spurious Emission BLE 1M MidCH20-2442MHz

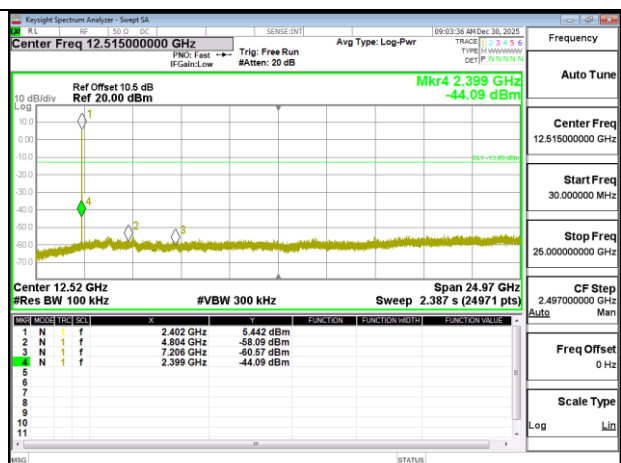
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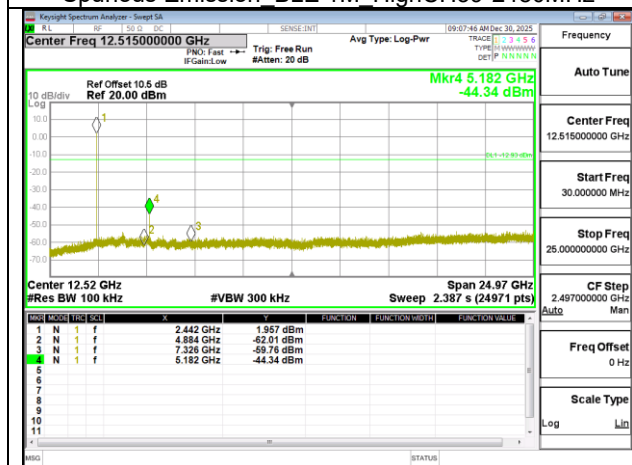
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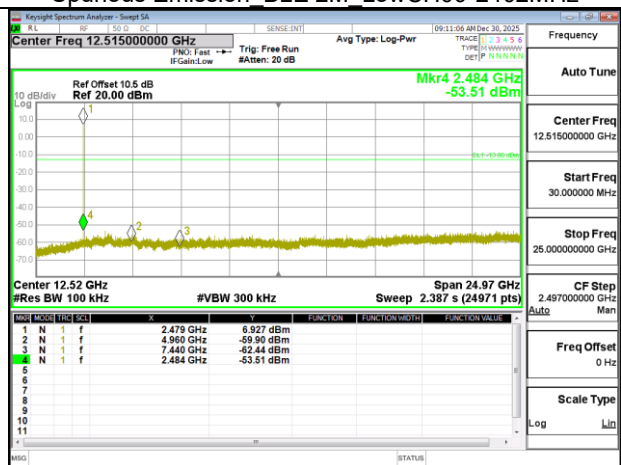
Spurious Emission BLE 1M HighCH39-2480MHz



Spurious Emission BLE 2M LowCH00-2402MHz



Spurious Emission BLE 2M MidCH20-2442MHz



Spurious Emission BLE 2M HighCH39-2480MHz

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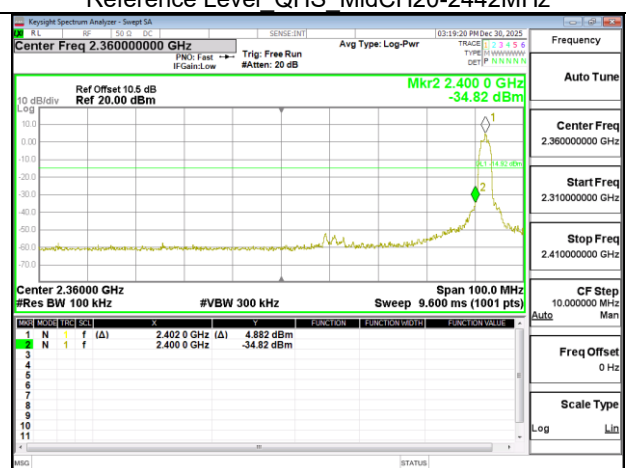
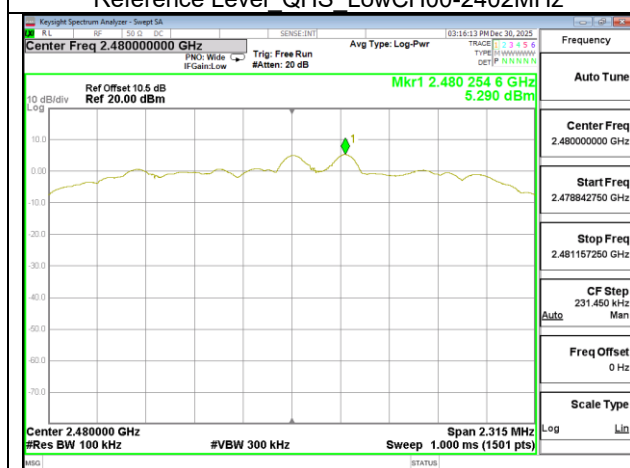
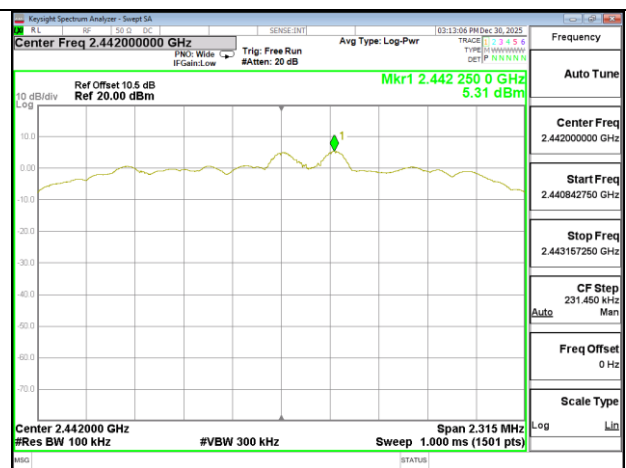
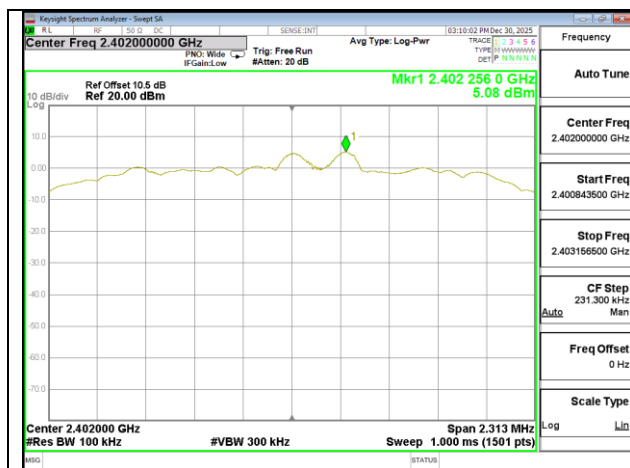
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QHS Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	5.08	-14.92
2442	5.31	-14.69
2480	5.29	-14.71

*Note:

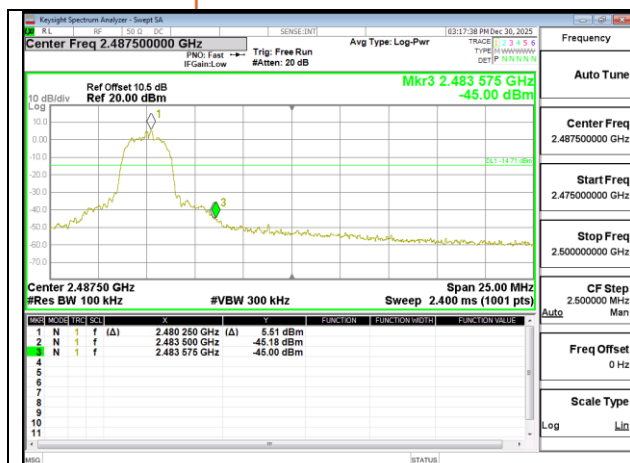
- 1.cable loss as 10.5 dB that offsets in the spectrum
- 2.Refer to next page for plots.



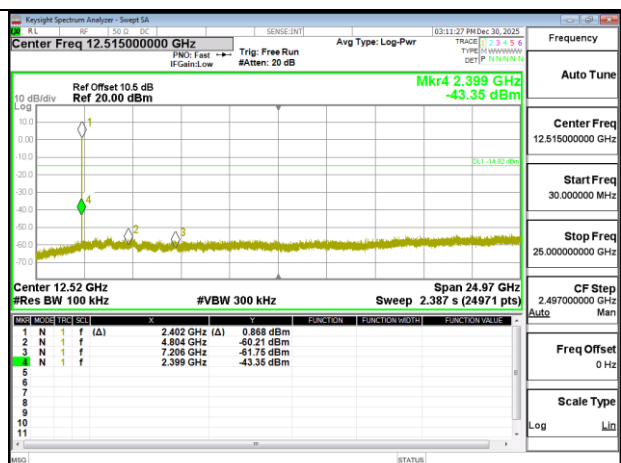
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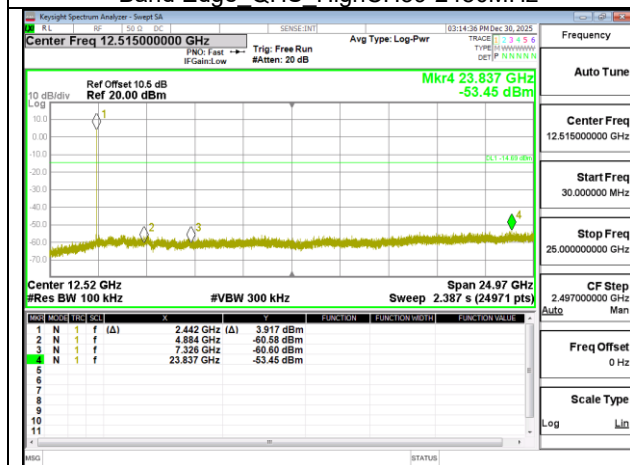
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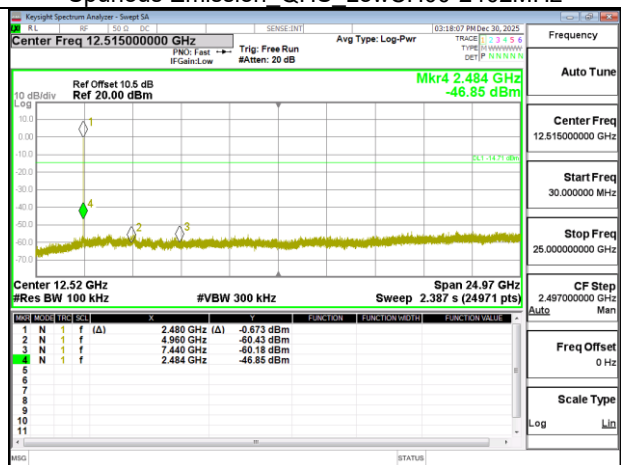
Band Edge_QHS_HighCH39-2480MHz



Spurious Emission_QHS_LowCH00-2402MHz



Spurious Emission_QHS_MidCH20-2442MHz



Spurious Emission_QHS_HighCH39-2480MHz

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7.6 Unwanted Emissions

7.6.1 Radiated Band Edge Measurement Result

1st

BLE mode

Report Number :TERF2512004351ER

Test Site :SAC 1

Operation Mode :BLE 1M

Test Date :2025-12-26

Test Frequency :2402 MHz

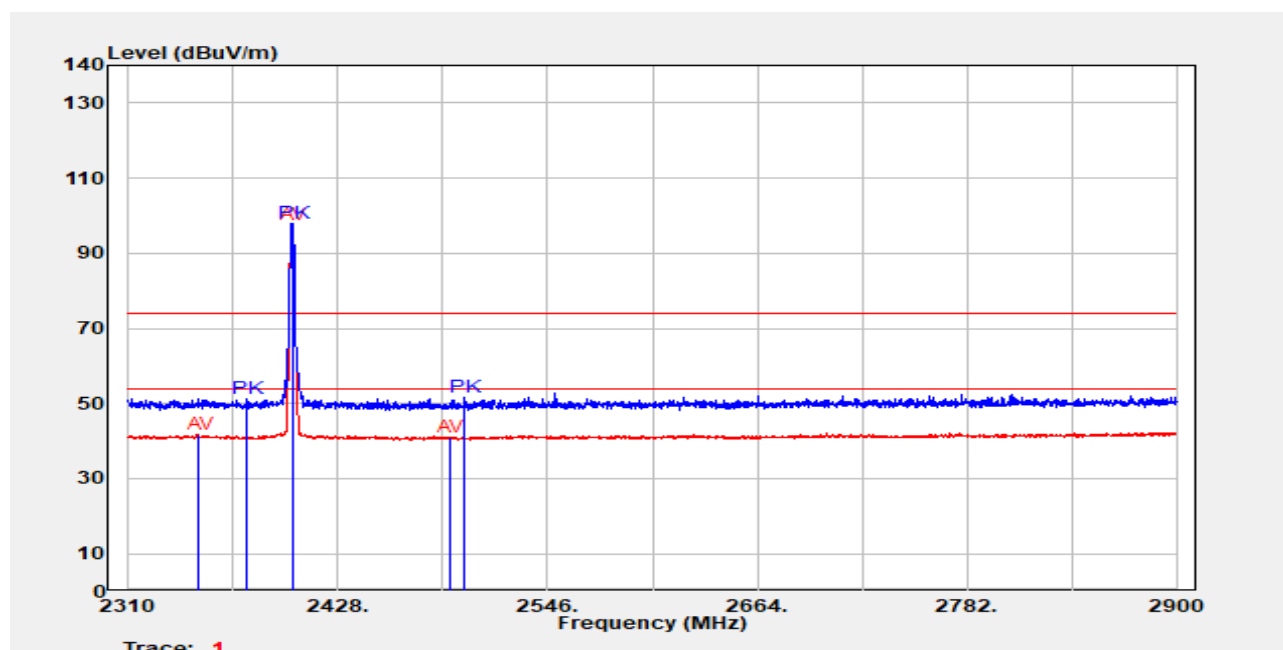
Temp./Humi. :23.1°C/61%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Dante Ding



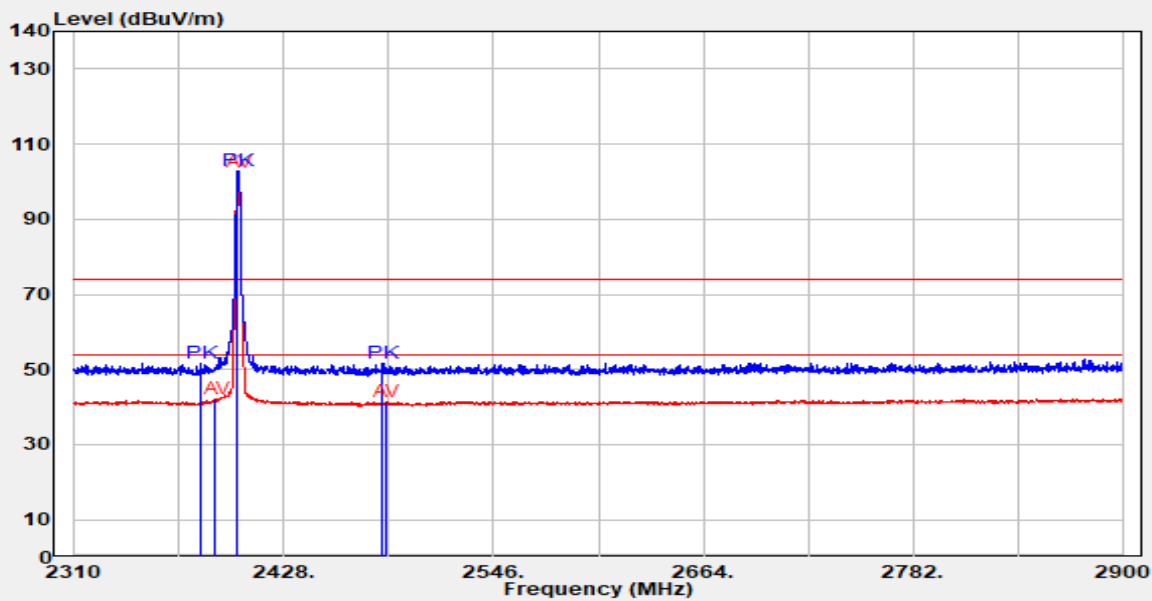
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2349.54	Average	43.56	-1.95	41.61	54.00	-12.39
2376.69	Peak	53.59	-2.29	51.30	74.00	-22.70
2402.07	Average	99.65	-2.14	97.51	-	-
2402.07	Peak	99.97	-2.14	97.83	-	-
2490.80	Average	43.50	-2.37	41.13	54.00	-12.87
2499.26	Peak	54.18	-2.46	51.72	74.00	-22.28

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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



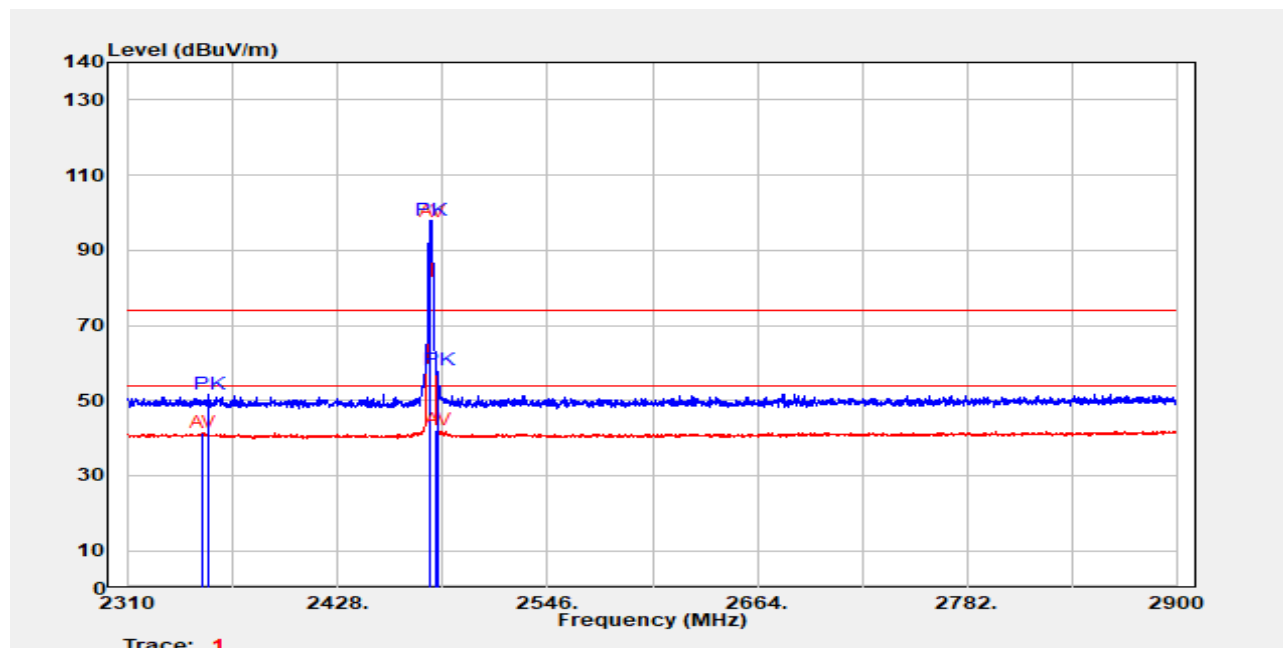
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2381.22	Peak	53.71	-2.29	51.42	74.00	-22.58
2389.28	Average	44.05	-2.12	41.93	54.00	-12.07
2401.87	Average	104.59	-2.13	102.46	-	-
2401.87	Peak	104.94	-2.13	102.81	-	-
2483.50	Peak	54.01	-2.34	51.67	74.00	-22.33
2484.90	Average	43.74	-2.34	41.40	54.00	-12.60

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Report Number :TERF2512004351ER
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-12-26
Temp./Humi. :23.1°C/61%
Antenna Pol. :Vertical
Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2351.51	Average	43.35	-1.98	41.37	54.00	-12.63
2354.66	Peak	53.69	-2.00	51.69	74.00	-22.31
2480.17	Average	99.72	-2.34	97.38	-	-
2480.17	Peak	100.12	-2.34	97.78	-	-
2483.50	Average	44.39	-2.34	42.05	54.00	-11.95
2483.72	Peak	60.28	-2.34	57.94	74.00	-16.06

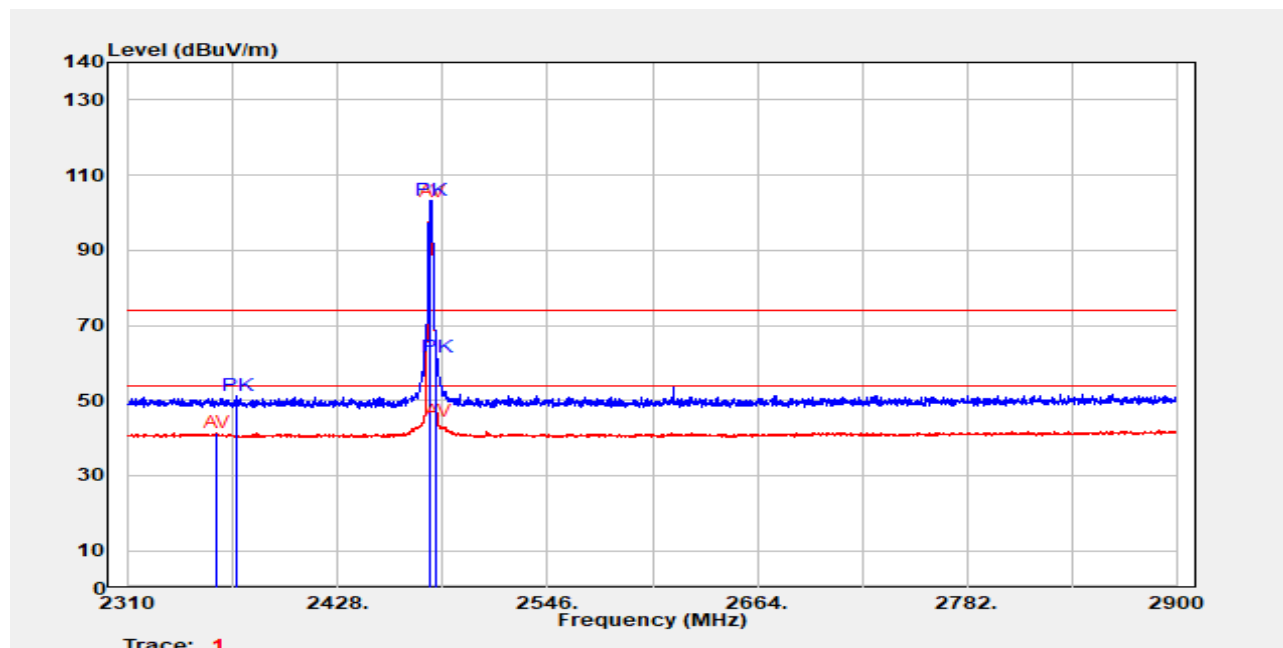
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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



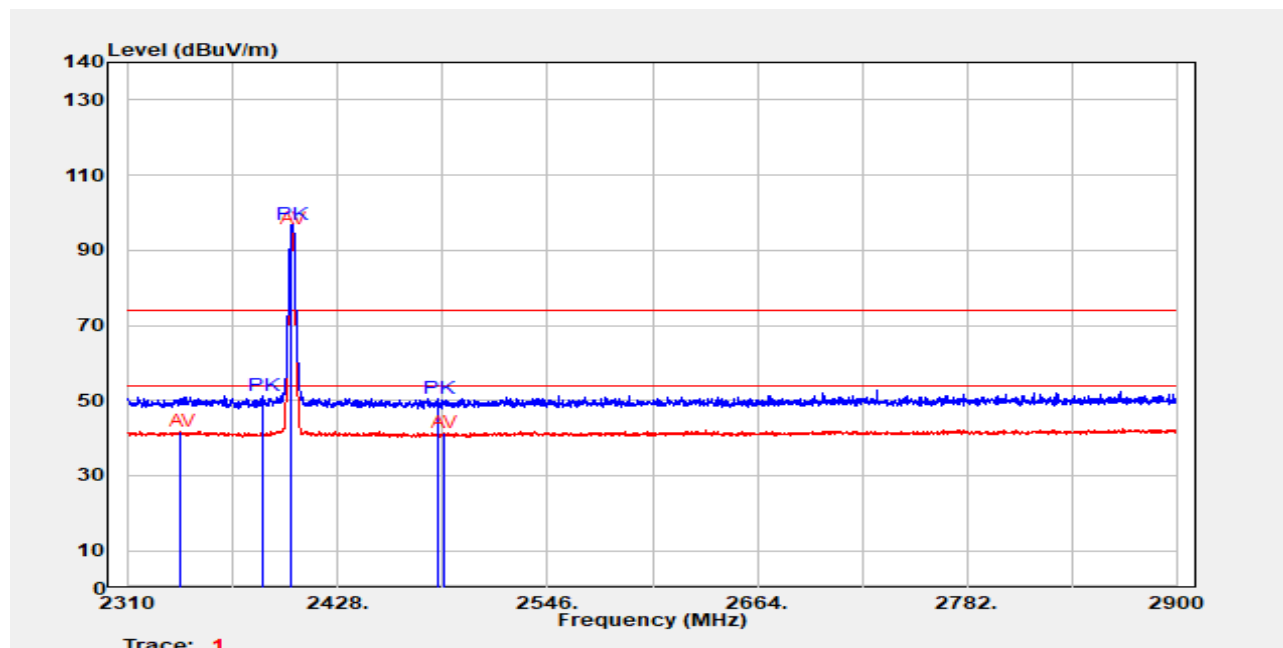
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2358.99	Average	43.28	-2.04	41.24	54.00	-12.76
2371.18	Peak	53.33	-2.24	51.09	74.00	-22.91
2479.98	Average	105.22	-2.34	102.88	-	-
2479.98	Peak	105.54	-2.34	103.20	-	-
2483.50	Average	46.75	-2.34	44.41	54.00	-9.59
2483.50	Peak	63.75	-2.34	61.41	74.00	-12.59

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Report Number :TERF2512004351ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



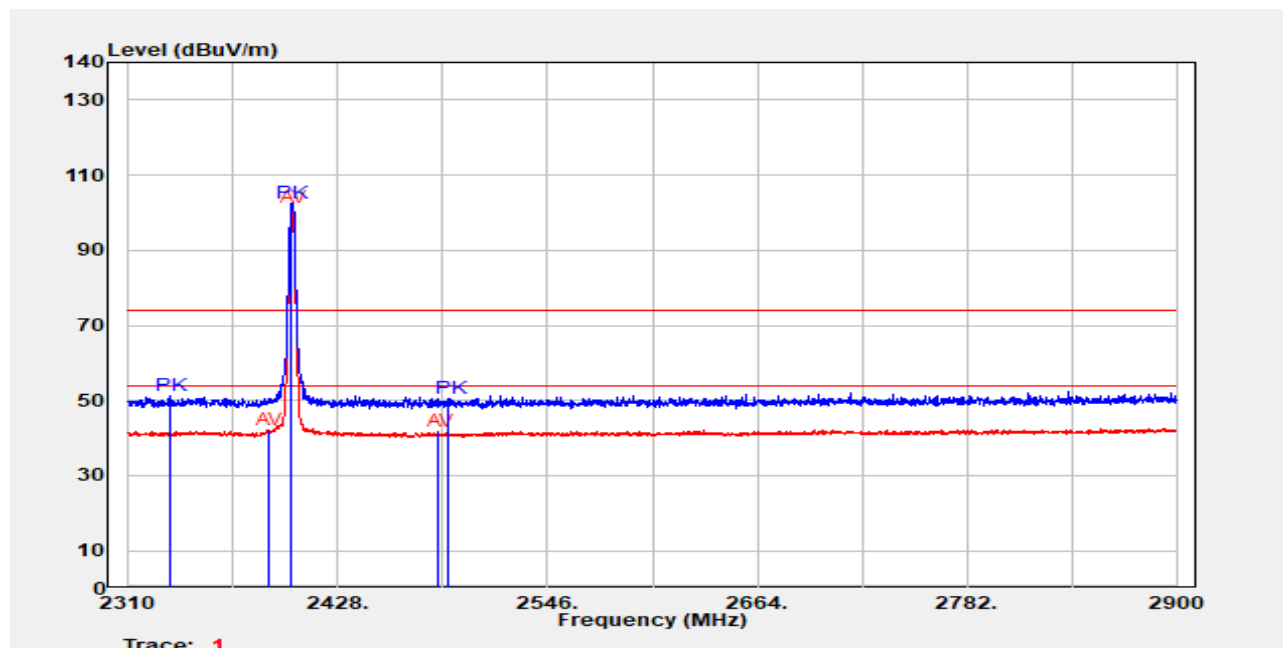
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2339.51	Average	43.97	-2.07	41.90	54.00	-12.10
2385.74	Peak	53.34	-2.20	51.14	74.00	-22.86
2401.68	Average	97.78	-2.12	95.66	-	-
2401.68	Peak	98.96	-2.12	96.84	-	-
2484.31	Peak	52.81	-2.34	50.47	74.00	-23.53
2487.45	Average	43.79	-2.35	41.44	54.00	-12.56

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Report Number :TERF2512004351ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



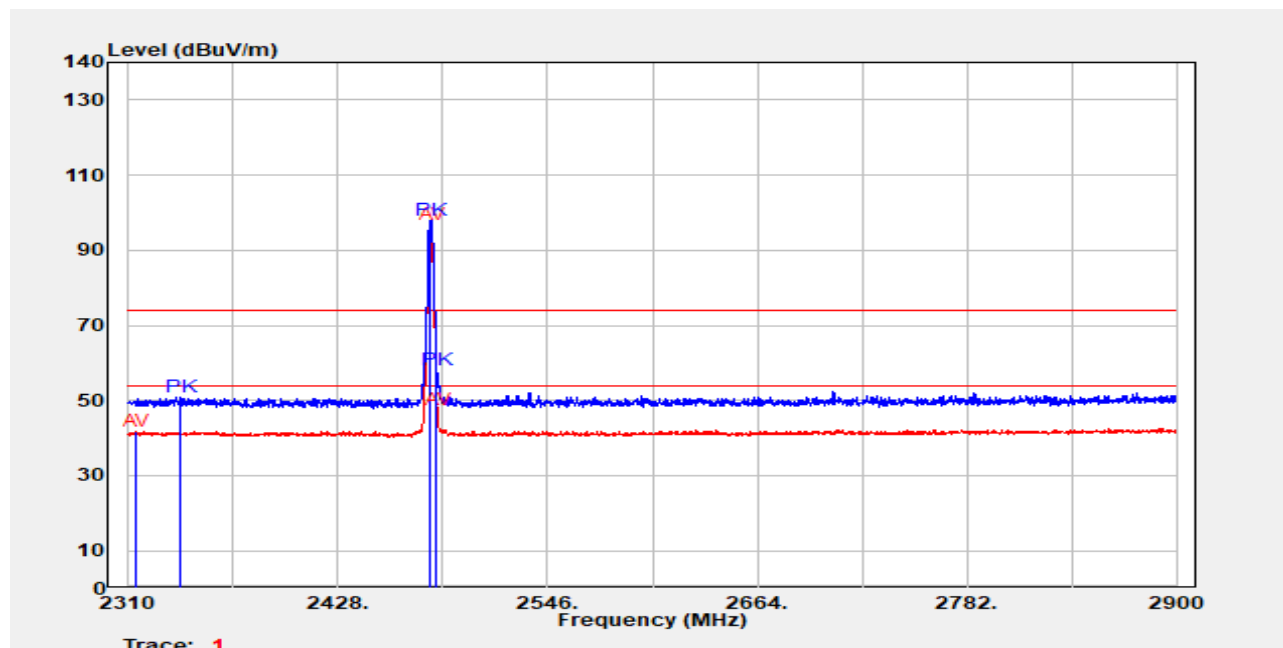
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2332.82	Peak	53.18	-2.08	51.10	74.00	-22.90
2388.50	Average	44.39	-2.14	42.25	54.00	-11.75
2401.68	Average	103.32	-2.12	101.20	-	-
2401.68	Peak	104.56	-2.12	102.44	-	-
2484.70	Average	43.98	-2.34	41.64	54.00	-12.36
2490.40	Peak	52.98	-2.36	50.62	74.00	-23.38

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Report Number :TERF2512004351ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



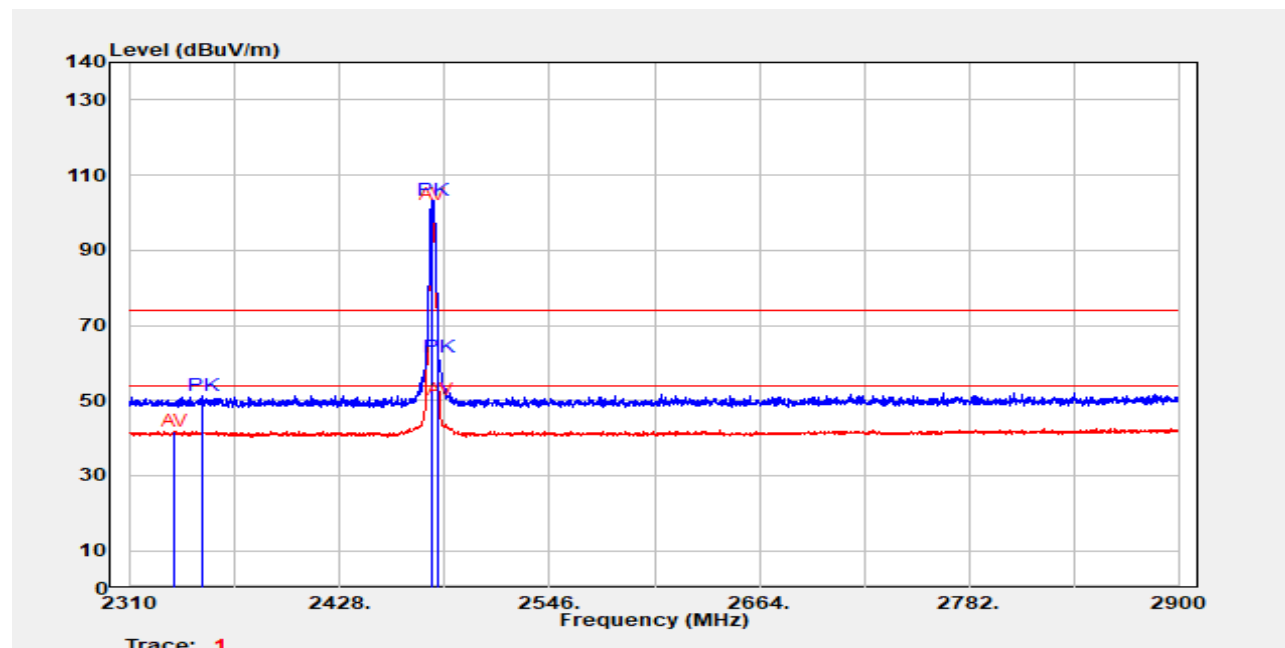
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2313.54	Average	43.78	-1.94	41.84	54.00	-12.16
2338.92	Peak	52.82	-2.07	50.75	74.00	-23.25
2480.17	Average	99.02	-2.34	96.68	-	-
2480.17	Peak	100.19	-2.34	97.85	-	-
2483.50	Average	49.94	-2.34	47.60	54.00	-6.40
2483.50	Peak	60.24	-2.34	57.90	74.00	-16.10

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Report Number :TERF2512004351ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-26
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2334.20	Average	43.84	-2.08	41.76	54.00	-12.24
2349.94	Peak	53.03	-1.95	51.08	74.00	-22.92
2479.58	Average	104.47	-2.35	102.12	-	-
2479.58	Peak	105.69	-2.35	103.34	-	-
2483.50	Average	52.47	-2.34	50.13	54.00	-3.87
2483.50	Peak	63.99	-2.34	61.65	74.00	-12.35

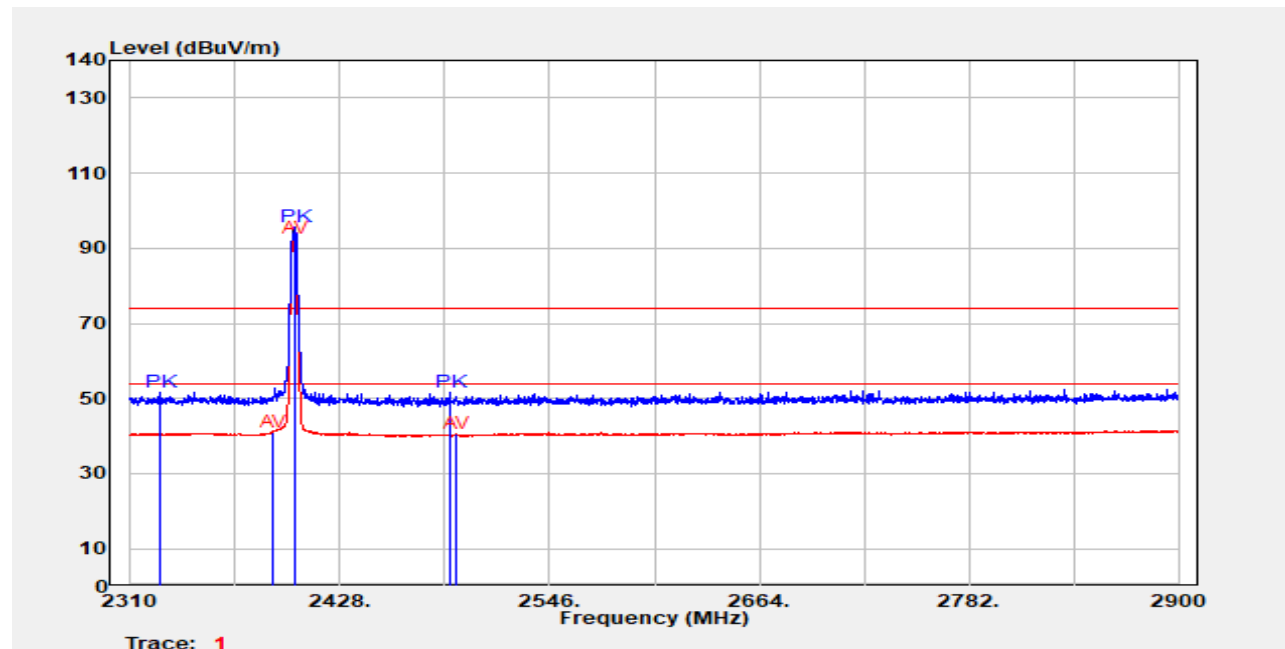
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QHS mode

Report Number :TERF2512004351ER
 Operation Mode :QHS
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-27
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



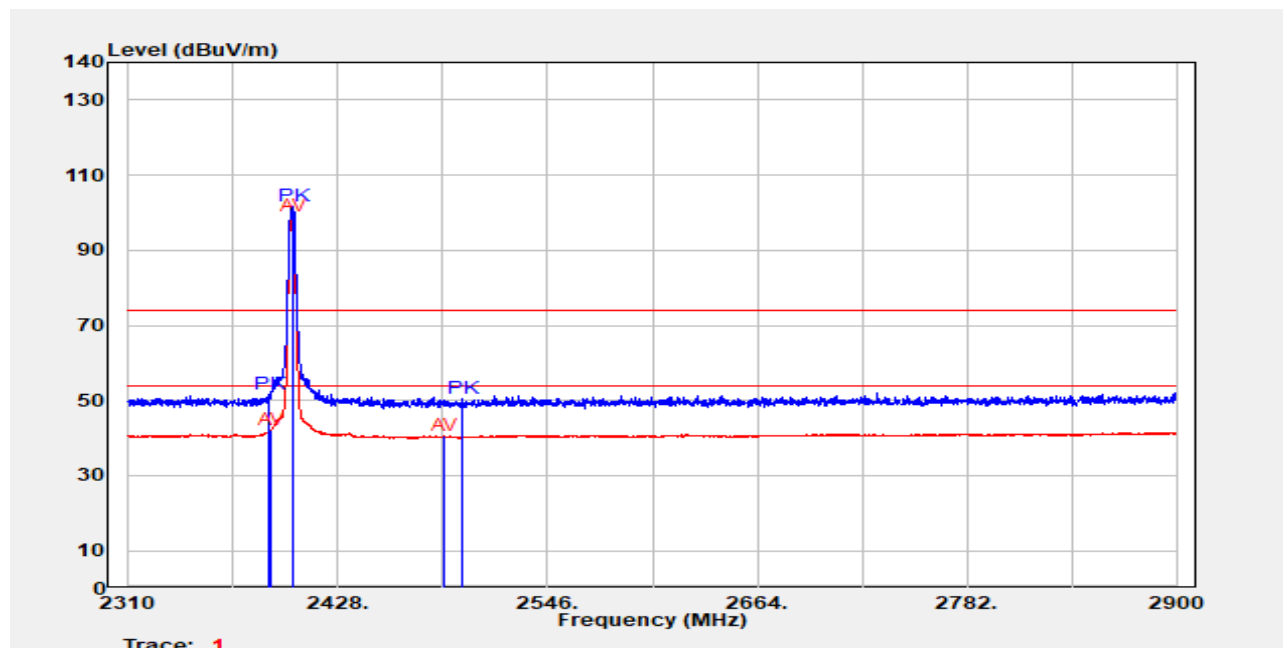
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2326.33	Peak	53.72	-2.05	51.67	74.00	-22.33
2389.87	Average	43.27	-2.11	41.16	54.00	-12.84
2402.46	Average	94.89	-2.15	92.74	-	-
2402.46	Peak	97.66	-2.15	95.51	-	-
2490.01	Peak	53.90	-2.35	51.55	74.00	-22.45
2493.16	Average	42.81	-2.39	40.42	54.00	-13.58

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Report Number :TERF2512004351ER
 Operation Mode :QHS
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-27
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.89	Peak	53.55	-2.13	51.42	74.00	-22.58
2389.87	Average	44.33	-2.11	42.22	54.00	-11.78
2402.46	Average	100.99	-2.15	98.84	-	-
2402.46	Peak	103.82	-2.15	101.67	-	-
2487.26	Average	42.85	-2.35	40.50	54.00	-13.50
2498.08	Peak	52.74	-2.44	50.30	74.00	-23.70

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

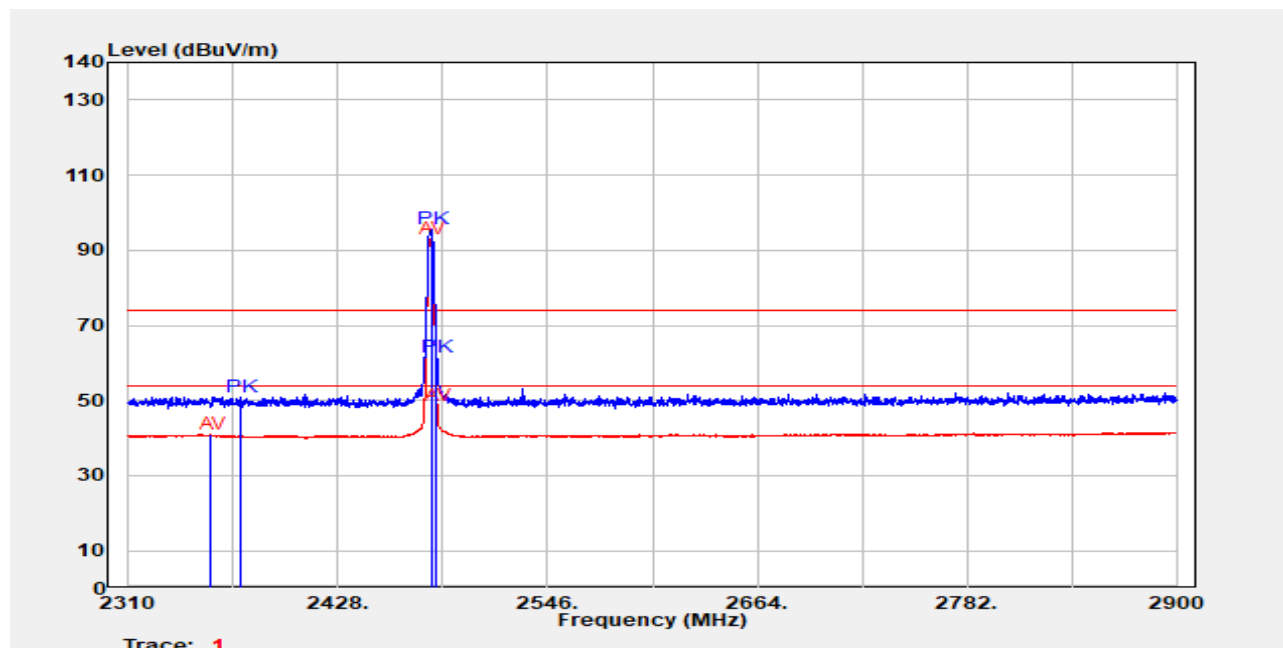
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2512004351ER
 Operation Mode :QHS
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-27
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2356.23	Average	42.91	-2.01	40.90	54.00	-13.10
2373.35	Peak	53.15	-2.25	50.90	74.00	-23.10
2480.57	Average	95.11	-2.34	92.77	-	-
2480.57	Peak	97.90	-2.34	95.56	-	-
2483.50	Average	50.96	-2.34	48.62	54.00	-5.38
2483.50	Peak	63.88	-2.34	61.54	74.00	-12.46

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t (886-2) 2299-3279

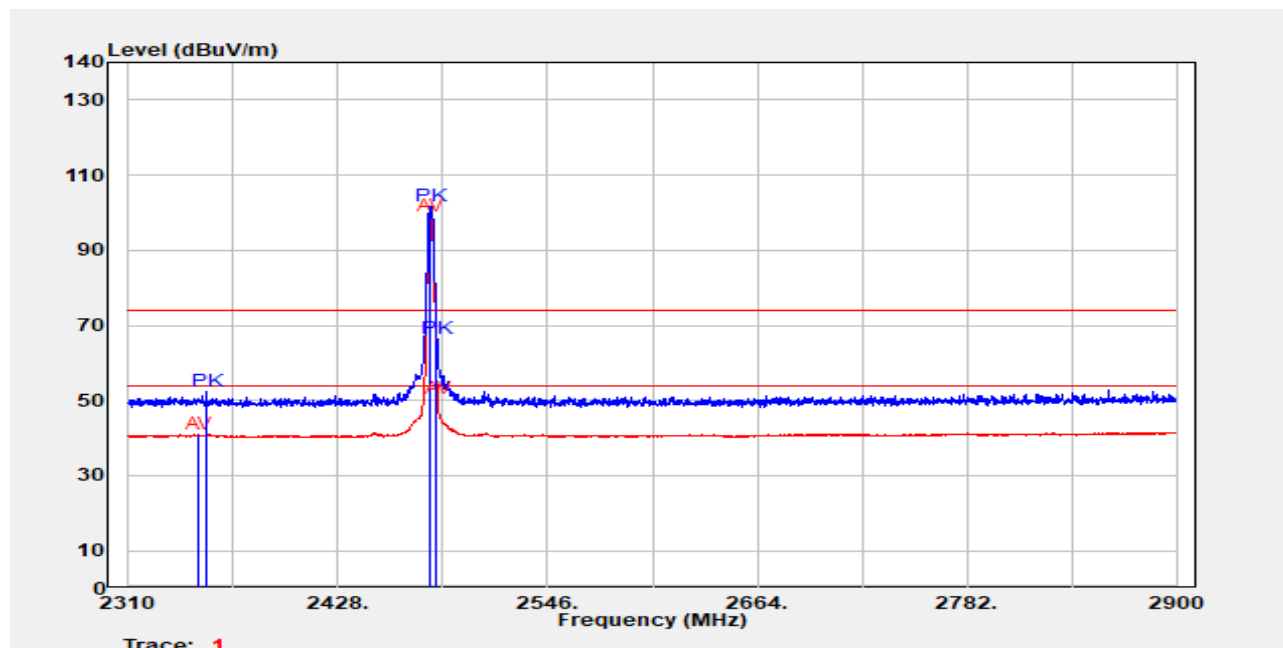
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2512004351ER
 Operation Mode :QHS
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-27
 Temp./Humi. :23.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2348.76	Average	42.89	-1.96	40.93	54.00	-13.07
2353.48	Peak	54.18	-1.98	52.20	74.00	-21.80
2479.78	Average	101.22	-2.34	98.88	-	-
2479.78	Peak	104.03	-2.34	101.69	-	-
2483.50	Average	52.72	-2.34	50.38	54.00	-3.62
2483.50	Peak	68.59	-2.34	66.25	74.00	-7.75

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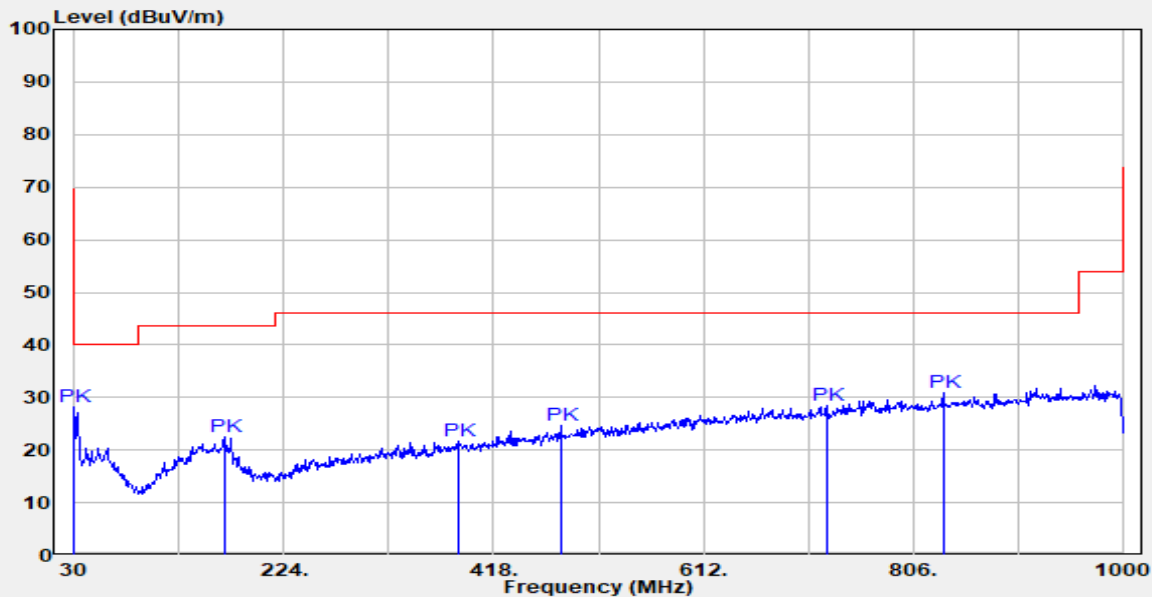
7.6.2 Spurious Emission

1st

BLE mode

Report Number :TERF2512004351ER
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-12-30
Temp./Humi. :21.6°C/53%
Antenna Pol. :Vertical
Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
30.00	Peak	40.34	-12.05	28.29	40.00	-11.71
168.71	Peak	32.55	-10.08	22.47	43.50	-21.03
385.99	Peak	28.18	-6.58	21.60	46.00	-24.40
480.08	Peak	29.46	-4.88	24.58	46.00	-21.42
726.46	Peak	28.06	0.37	28.43	46.00	-17.57
834.13	Peak	28.48	2.48	30.96	46.00	-15.04

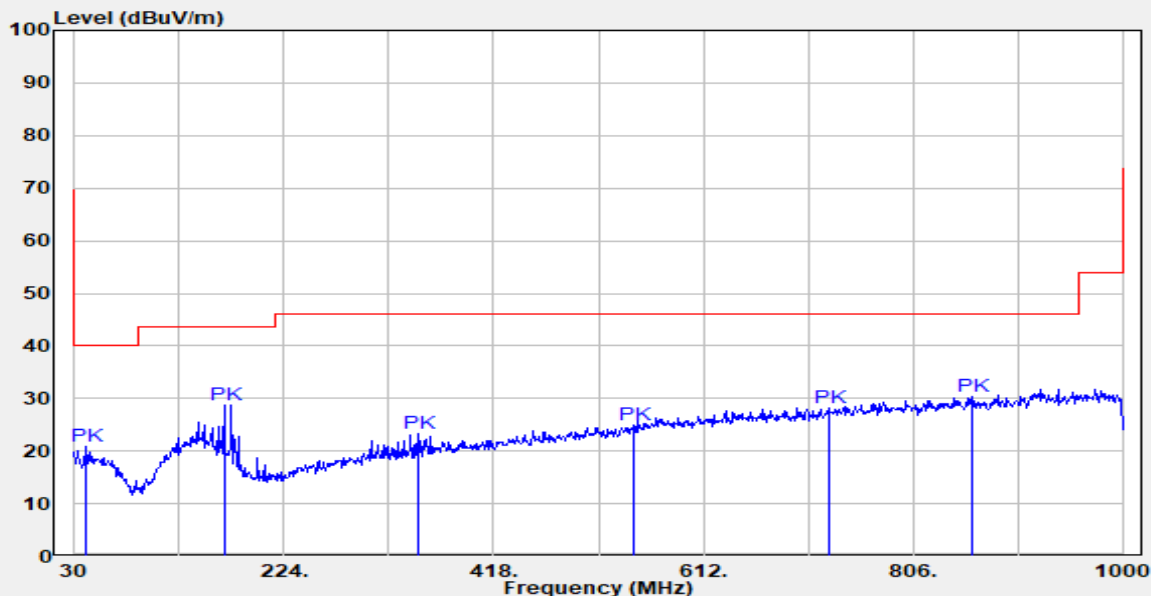
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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



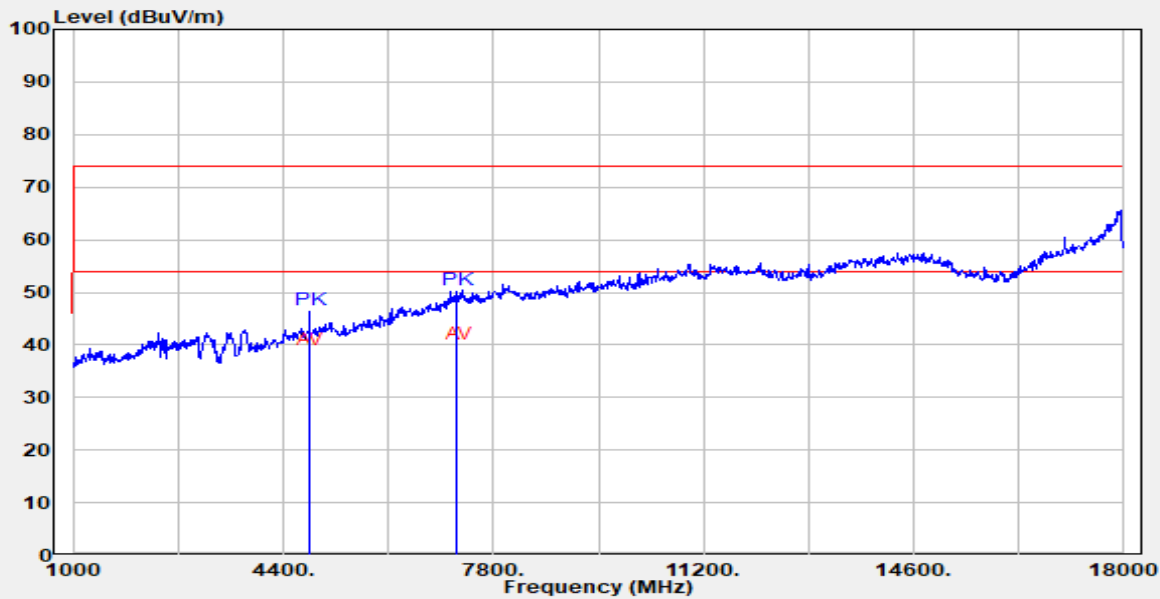
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.67	Peak	32.00	-11.09	20.91	40.00	-19.09
168.71	Peak	38.85	-10.08	28.77	43.50	-14.73
347.19	Peak	30.88	-7.49	23.39	46.00	-22.61
547.01	Peak	28.65	-3.77	24.88	46.00	-21.12
728.40	Peak	27.68	0.44	28.12	46.00	-17.88
861.29	Peak	27.35	3.03	30.38	46.00	-15.62

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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



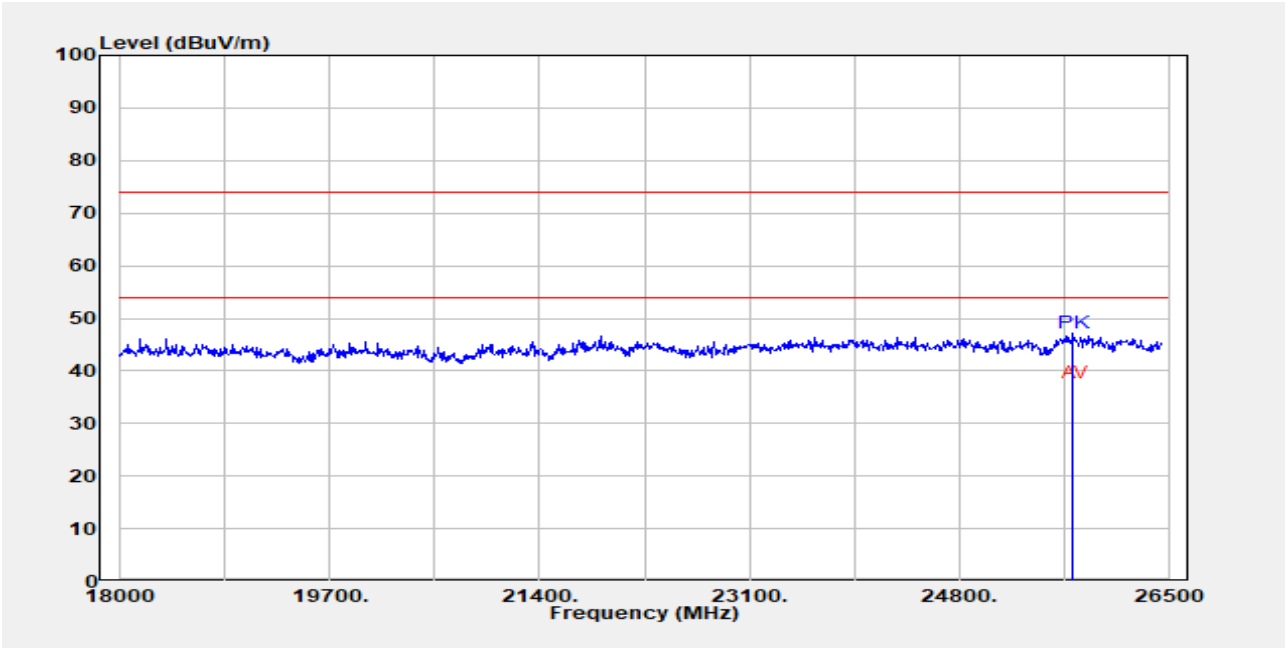
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	Average	36.43	2.51	38.94	54.00	-15.06
4804.00	Peak	44.04	2.51	46.55	74.00	-27.45
7206.00	Average	31.27	8.72	39.99	54.00	-14.01
7206.00	Peak	41.77	8.72	50.49	74.00	-23.51

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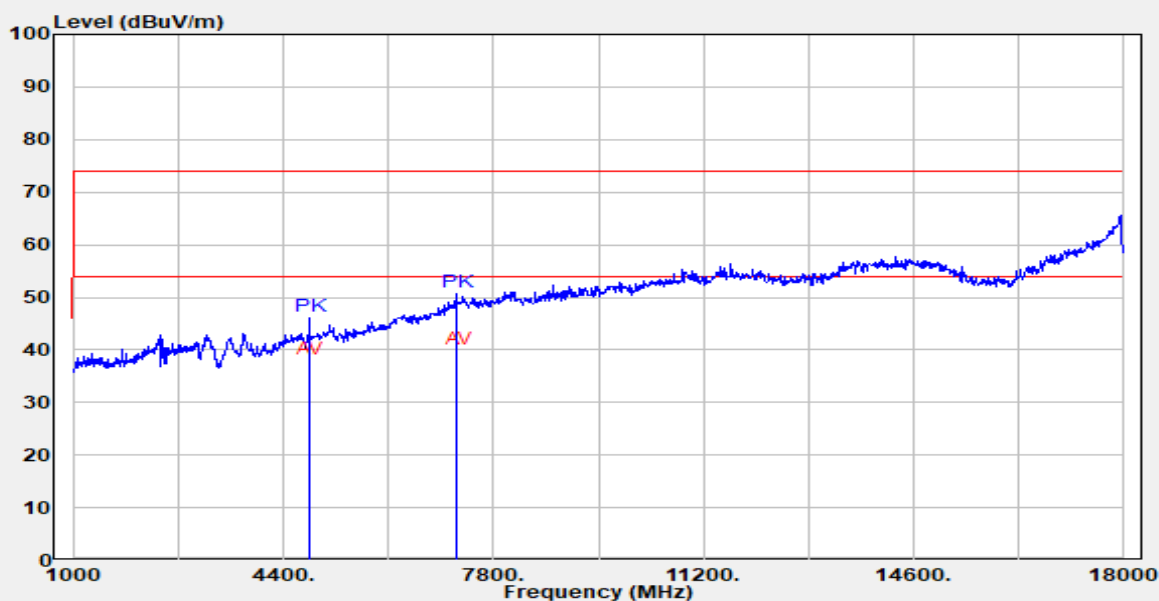
Report Number	:TERF2512004351ER	Test Site	:SAC 1
Operation Mode	:BLE 1M	Test Date	:2025-12-30
Test Frequency	:2402 MHz	Temp./Humi.	:21.6°C/53%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
25726.50	Average	31.87	5.80	37.67	54.00	-16.33
25726.50	Peak	41.25	5.80	47.05	74.00	-26.95

Report Number :TERF2512004351ER
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-12-30
Temp./Humi. :21.6°C/53%
Antenna Pol. :Horizontal
Engineer :Dante Ding



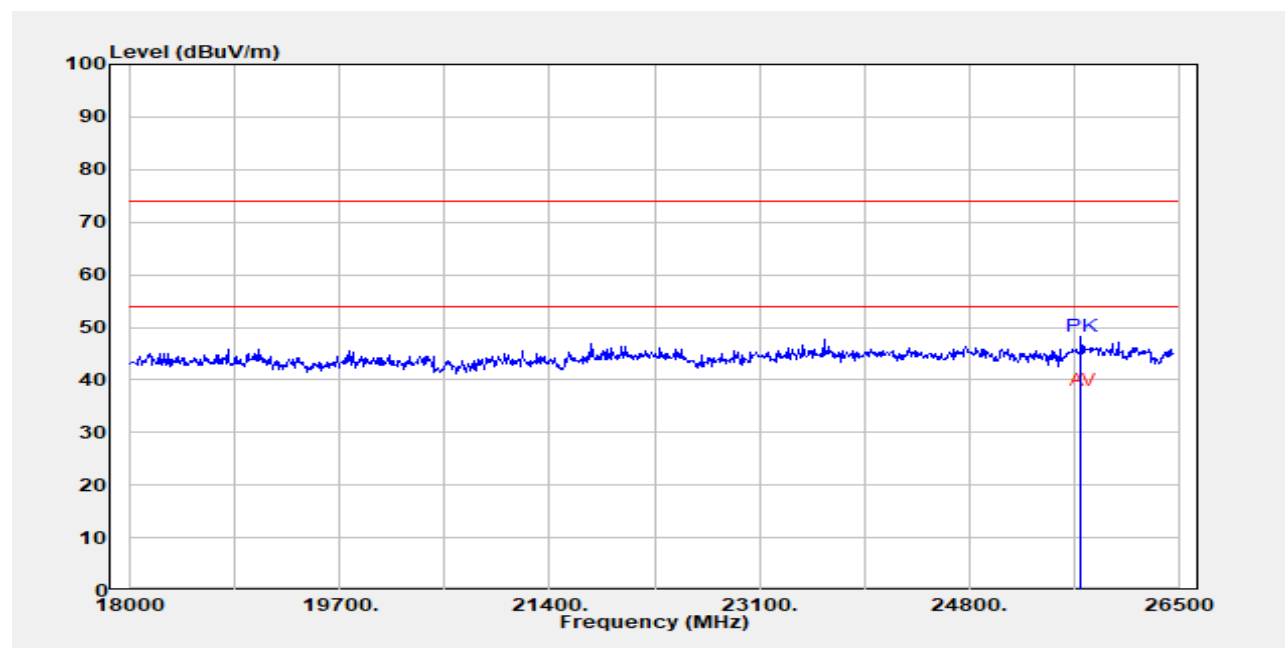
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4804.00	Average	35.59	2.51	38.10	54.00	-15.90
4804.00	Peak	43.87	2.51	46.38	74.00	-27.62
7206.00	Average	31.39	8.72	40.11	54.00	-13.89
7206.00	Peak	42.16	8.72	50.88	74.00	-23.12

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Report Number :TERF2512004351ER
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2025-12-30
Temp./Humi. :21.6°C/53%
Antenna Pol. :Horizontal
Engineer :Dante Ding



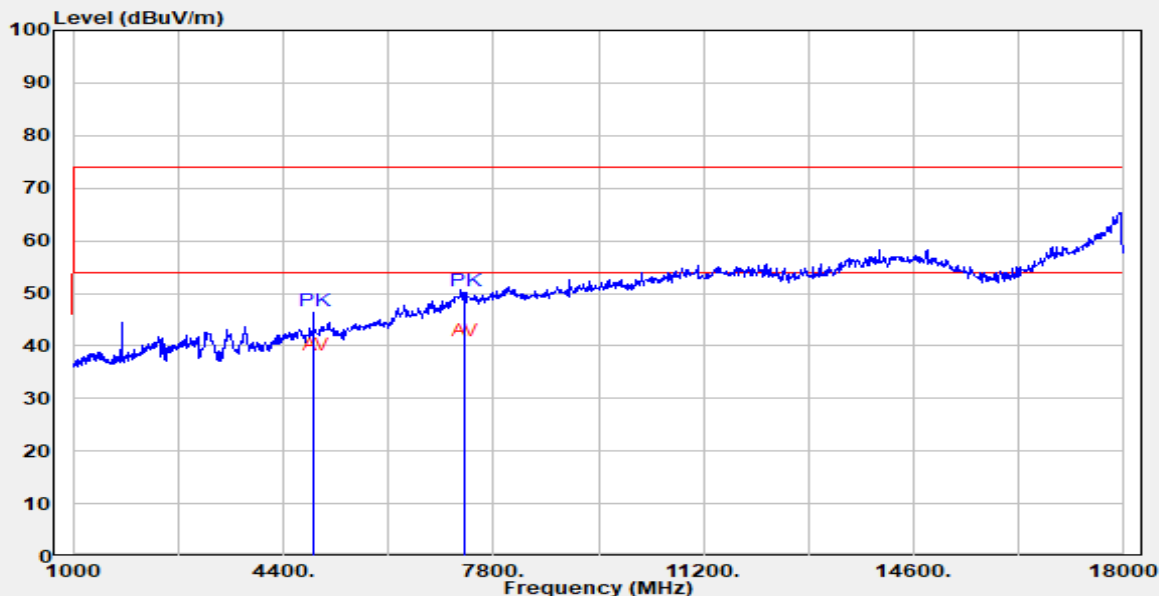
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
25709.50	Average	32.07	5.77	37.84	54.00	-16.16
25709.50	Peak	42.42	5.77	48.19	74.00	-25.81

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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	35.90	2.42	38.32	54.00	-15.68
4884.00	Peak	44.10	2.42	46.52	74.00	-27.48
7326.00	Average	31.84	9.02	40.86	54.00	-13.14
7326.00	Peak	41.51	9.02	50.53	74.00	-23.47

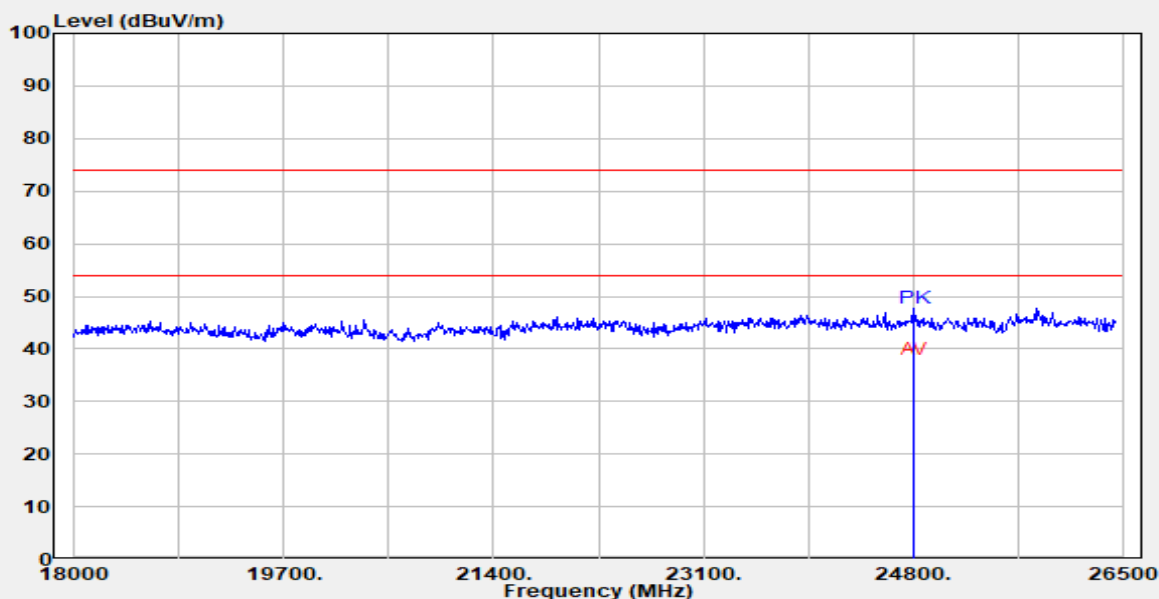
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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Vertical
 Engineer :Dante Ding



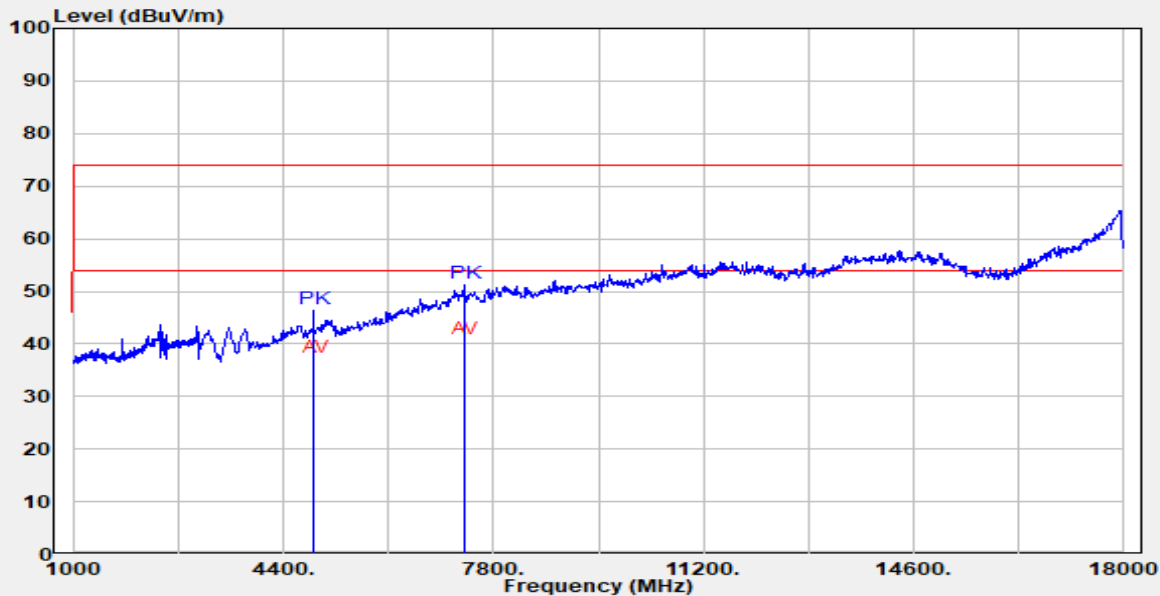
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
24800.00	Average	32.30	5.66	37.96	54.00	-16.04
24800.00	Peak	42.08	5.66	47.74	74.00	-26.26

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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4884.00	Average	35.11	2.42	37.53	54.00	-16.47
4884.00	Peak	44.16	2.42	46.58	74.00	-27.42
7326.00	Average	31.90	9.02	40.92	54.00	-13.08
7326.00	Peak	42.34	9.02	51.36	74.00	-22.64

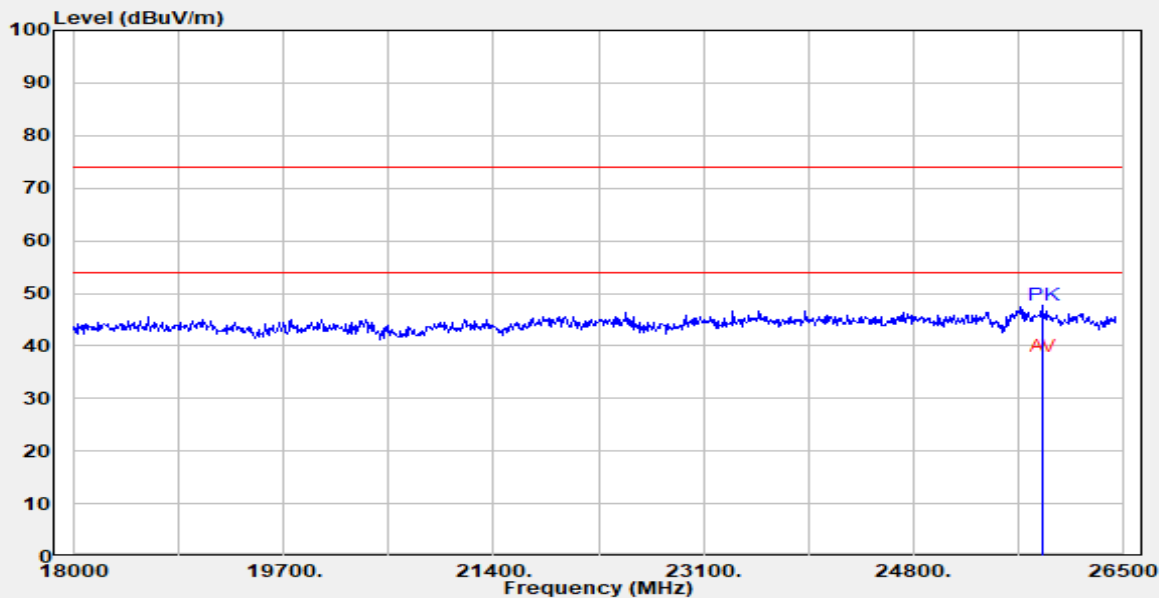
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :TERF2512004351ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2025-12-30
 Temp./Humi. :21.6°C/53%
 Antenna Pol. :Horizontal
 Engineer :Dante Ding



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
25845.50	Average	32.10	5.84	37.94	54.00	-16.06
25845.50	Peak	41.74	5.84	47.57	74.00	-26.43

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