

TEST REPORT

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(Peoples Republic Of)
Report Number: 2601W73931E-RFA
FCC ID: 2AYOT-APP812
IC: 26903-MEAPP812

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2;
RSS-247 ISSUE 4, JULY 2025

Sample Description

Product Type: Metapen Pencil Crown
Model No.: ME-APP812
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2026-08-06
Issue Date: 2026-09-08

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Navilite Cai
RF Engineer

Approved By:

Jimmy Xiao

Jimmy Xiao
EMC Manager

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601W73931E-RFA	Original Report	2026-09-08

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	ME-APP812
FVIN	V20.1
Frequency Range	2402-2480MHz
Maximum Conducted Output Peak Power	0.35dBm
Modulation Technique	GFSK
Antenna Specification[#]	-0.16dBi (provided by the applicant)
Voltage Range	DC 3.7V from battery or DC 5V from USB ports
Sample serial number	3RE8-1 for AC Line Conducted Emissions and Radiated Emissions Test 3RE8-2 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This report is in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.247 rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247 ISSUE 4, July 2025 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1 2023+C63.10a-2024+Errata to C63.10a-2024[▼], RSS-Gen and RSS-247.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		52.29kHz(k=1.96, 95% level of confidence)
RF output power, conducted		1.57dB(k=1.96, 95% level of confidence)
Power Spectral Density		2.09dB(k=1.96, 95% level of confidence)
Conducted Spurious Emission		2.48dB(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
	18GHz - 40GHz	6.66dB(k=2, 95% level of confidence)
Temperature		$\pm 0.4^{\circ}\text{C}$
Humidity		$\pm 2\%$
Supply voltages		DC $\pm 0.4\%$; AC $\pm 1\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, test firm registration No.: 715558, the FCC Designation No. : CN5045.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0023.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

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

EUT was tested with Channel 0, 19 and 39.

EUT Exercise Software

Exercise Software [#]	RF_Test.exe		
Power Level [#]			
Mode	Low Channel	Middle Channel	High Channel
BLE 1M	4	4	4
BLE 2M	4	4	4

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

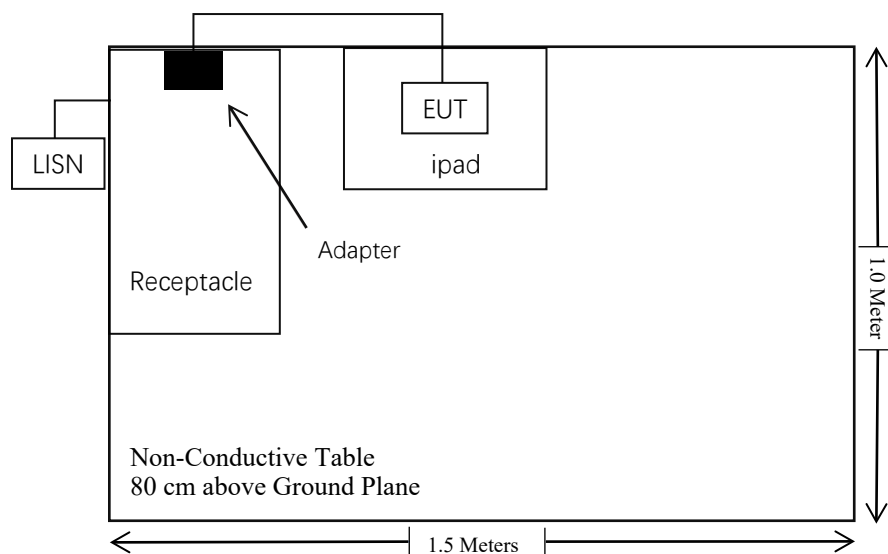
Manufacturer	Description	Model	Serial Number
Benco	Adapter	TPA-67050200VU	TTYW0122C1500023
BULL	Receptacle	GN-415K	5503290068073
Apple	ipad	A1893	DMQXNZ0JMVVR

External I/O Cable

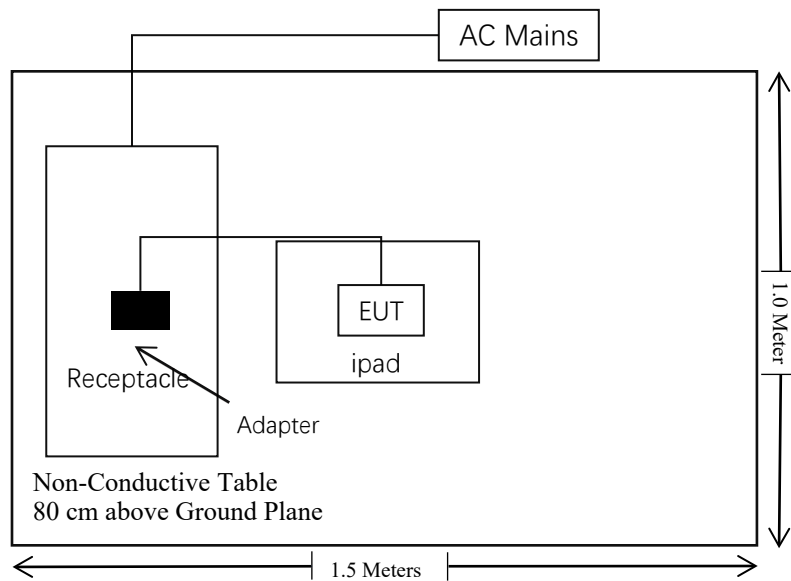
Cable Description	Length (m)	From Port	To
Un-Shielding Un-Detachable AC Cable	1.2	Receptacle	AC Mains/LISN
Un-Shielding Detachable USB Cable	0.8	EUT	Adapter

Block Diagram of Test Setup

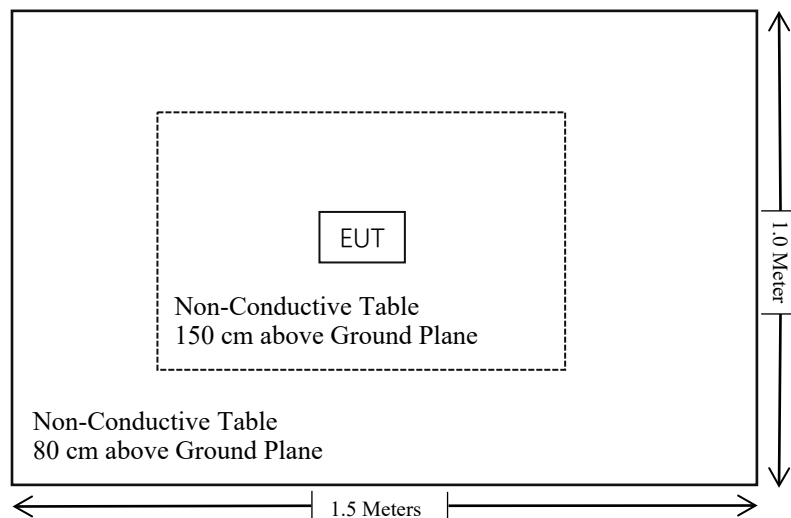
For AC Line Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Test Rules	Test Rules	Description of Test	Result
FCC § 15.247 (i), §1.1307(b), § 2.1093	/	RF Exposure Evaluation	Compliant
/	RSS-102 § 6.3	SAR Exemption Limits	Compliant
FCC §15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §15.207 (a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	RSS-GEN § 8.10 & RSS-247 §6.6	Spurious Emissions	Compliant
FCC §15.247 (a)(2)	RSS- Gen§6.7 RSS-247 §6.3.1(a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
FCC §15.247(b)(3)	RSS-247 §6.3.2	Maximum Conducted Output Power	Compliant
FCC §15.247(e)	RSS-247 §6.3.1(b)	Power Spectral Density	Compliant
FCC §15.247(d)	RSS-247 §6.6	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(d)	RSS-247 §6.6	Conducted Spurious Emission	Compliant
C63.10 §11.6	C63.10 §11.6	Duty Cycle	/

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2025/09/01	2026/08/31
Rohde & Schwarz	LISN	ENV216	101613	2025/09/18	2026/09/17
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/09/18	2026/09/17
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/09/18	2026/09/17
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2026/06/26	2029/06/25
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2026/07/15	2027/07/14
The Electro-Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2026/06/23	2027/06/22
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2026/06/23	2027/06/22
Unknown	Chamber B Cable	Cable B6	Cable B6	2026/07/06	2027/07/05
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/09/08	2026/09/07

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Unknown	Chamber B Cable	Cable B4	Cable B4	2025/09/17	2026/09/16
Unknown	Chamber B Cable	Cable B5	Cable B5	2025/09/17	2026/09/16
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200120	2026/08/04	2027/08/03
JD	JD Auto Test software	NA	1.0.0.3769	NCR	NCR
Unknown	10dB Attenuator	Unknown	F-03-EM224	2026/06/24	2027/06/23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

REQUIREMENTS AND TEST PROCEDURES

AC Line Conducted Emissions

Applicable Standard

FCC§15.207 (a) & RSS-GEN §8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

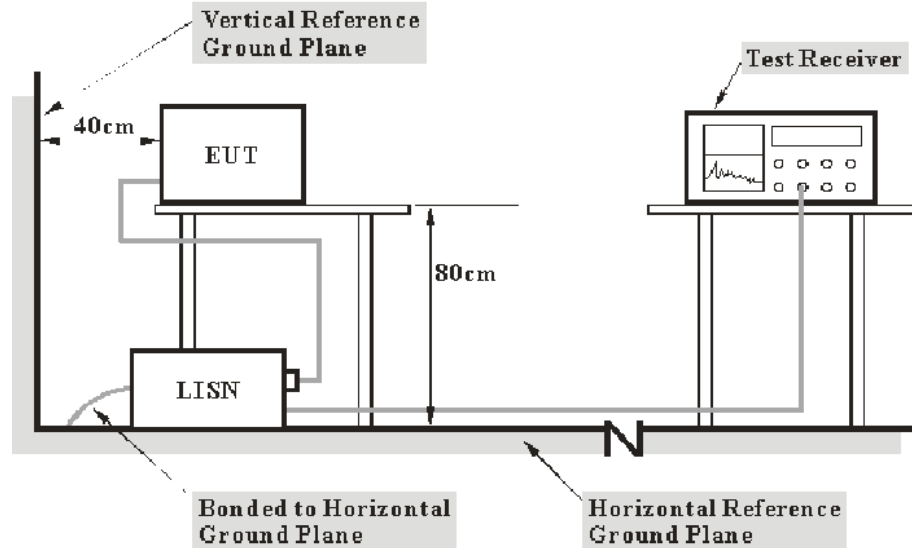
Table 4 - AC Power Lines Conducted Emission Limits		
Frequency range (MHz)	Conducted limit (dB μ V)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.
- Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 & RSS-247/RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

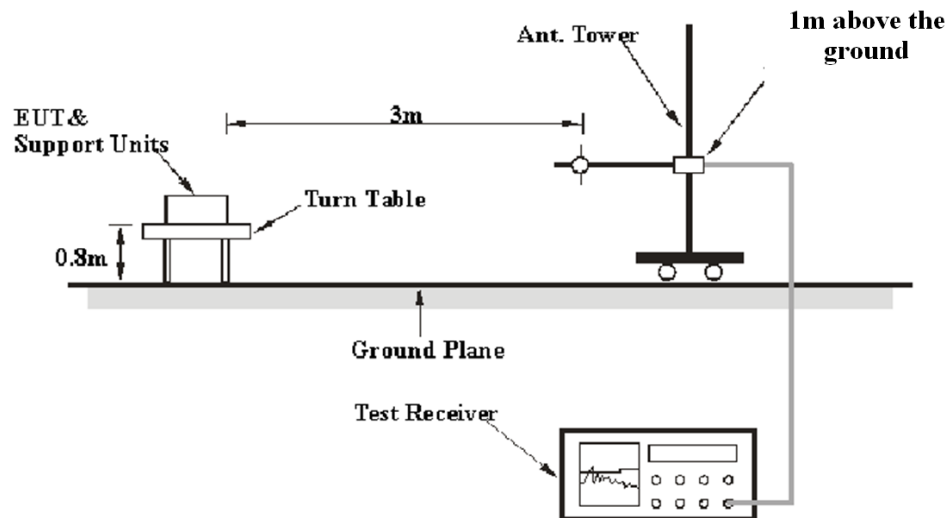
Unwanted Emission Frequencies and Restricted Bands

Applicable Standard

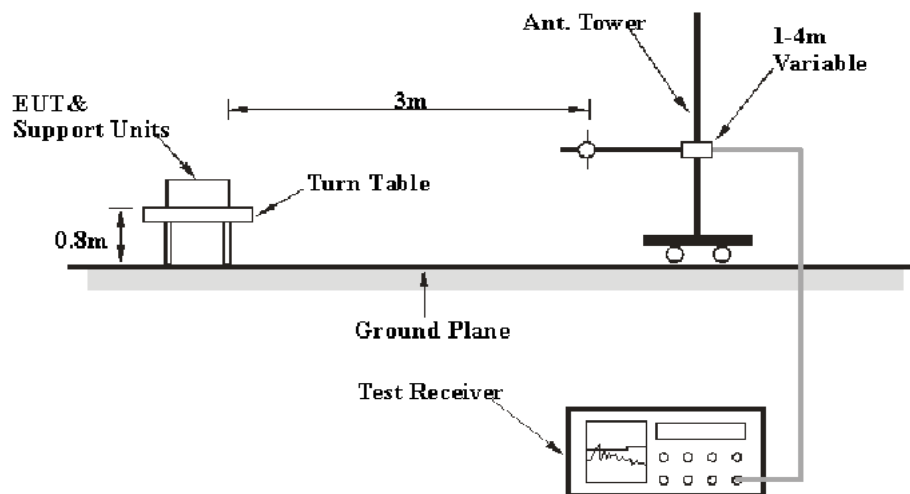
FCC §15.247 (d); §15.209; §15.205; RSS-247 §6.6, RSS-GEN §8.10.

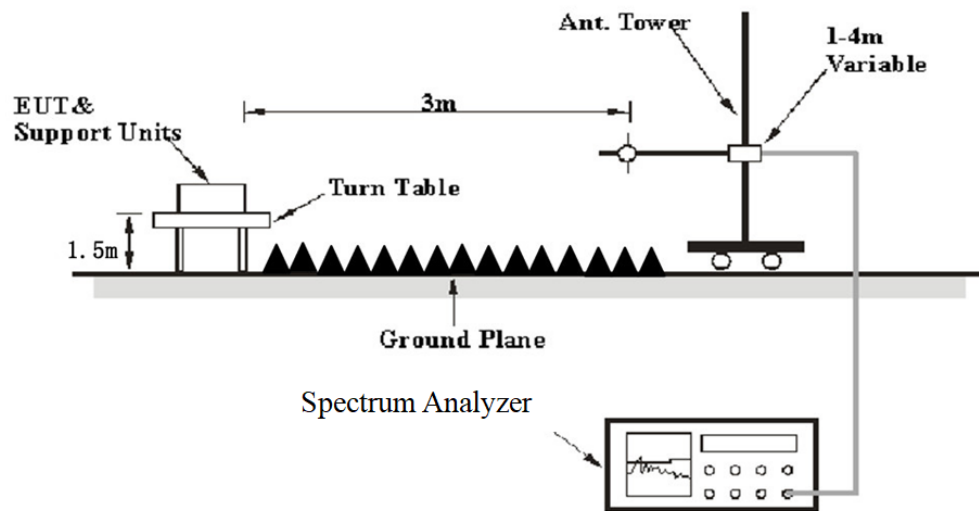
EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.205, FCC 15.209, FCC 15.247, RSS-Gen and RSS-247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	120 kHz	500 kHz	/	PK	Peak

1-25GHz:
Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	1 kHz	Peak
	<98%	1MHz	>1/Ton, not less than 1kHz	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	≥1/Ton	Peak

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level / Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

99% Occupied Bandwidth & 6 dB Emission Bandwidth

Standard Applicable

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

According to RSS-247 §6.3.1(a)

The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.8.1 & Clause 6.9.3

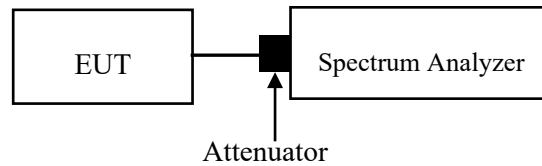
The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Note: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

Peak Output Power Measurement

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

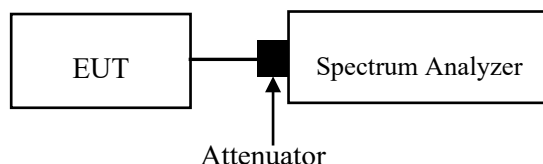
According to RSS-247§6.3.2 For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the $RBW \geq$ DTS bandwidth.
- b) Set $VBW \geq [3 \times RBW]$.
- c) Set $span \geq [3 \times RBW]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



Note 1: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss

Note 2: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

Power Spectral Density

Applicable Standard

According to FCC §15.247(e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-247 §6.3.1(b):

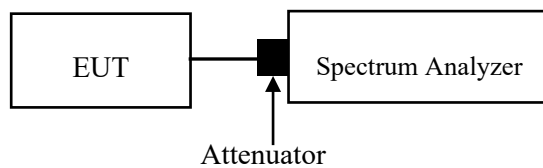
The transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2. The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span > 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note 1: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss

Note 2: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

100 kHz Bandwidth of Frequency Band Edge

Applicable Standard

According to FCC §15.247(d).

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, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to RSS-247 § 6.6,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device, or hybrid system is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.11.3

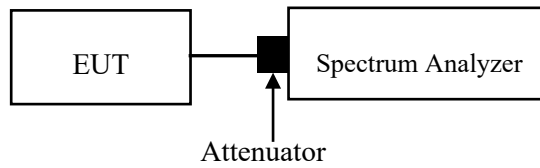
Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

Conducted Spurious Emission

Applicable Standard

According to FCC §15.247(d).

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, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to RSS-247 § 6.6,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device, or hybrid system is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.11.3

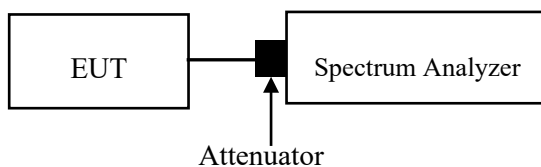
Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Note 1: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the worst case cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Note: The worst cable loss among the test frequency range was added into plots.

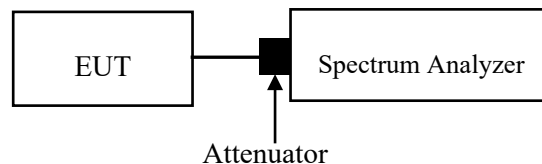
Duty Cycle

Test Procedure

According to ANSI C63.10-2020 Section 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



Note: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

RF EXPOSURE EVALUATION

RF EXPOSURE EVALUATION

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v06.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max tune-up conducted power [#] (dBm)	Max tune-up conducted power [#] (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2402-2480	0.5	1.1	5	0.4	3.0	Yes

Result: Compliant

SAR EXEMPTION LIMITS

Applicable Standard

According to RSS-102 Issue 6 § (6.3), Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

The exemption limits in table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance. If the separation distance of the device is between two distances located in table 11, linear interpolation may be applied for the applicable frequency. Alternatively, the limit corresponding to the smaller distance may be employed. For example, in case of a 7 mm separation distance, either use the exception value for a 5 mm separation distance or interpolate between the limits corresponding to 5 mm and 10 mm separation distances.

For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1 mW, regardless of frequency.

The SAR levels from exempted transmitters shall be included in the compliance assessment and the determination of the TER. Detailed guidance is included in sections 7.1.8 and 8.2.2.1.

Test Result:

Mode	Frequency (MHz)	Gain [#] (dBi)	Max tune-up conducted power [#] (dBm)	The larger of tune- up conduct power and EIRP [#]		Distance (mm)	Exemption Limit (mW)	SAR Evaluation Exemption
				(dBm)	(mW)			
BLE	2402-2480	-0.16	0.5	0.5	1.12	5	2.97	Yes

Note 1: $(2480-2450)/(3500-2450) = (3-P)/(3-2)$, the exemption limit of 2480MHz is $P = 2.97\text{mW}$

Note 2: The max tune-up conducted power[#] and antenna gain[#] were declared by the applicant

Compliant

ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-Gen §6.8,

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the Compliant of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain[#] is -0.16dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range
FPC	-0.16dBi	50Ω	2.4~2.48GHz

Result: Compliant

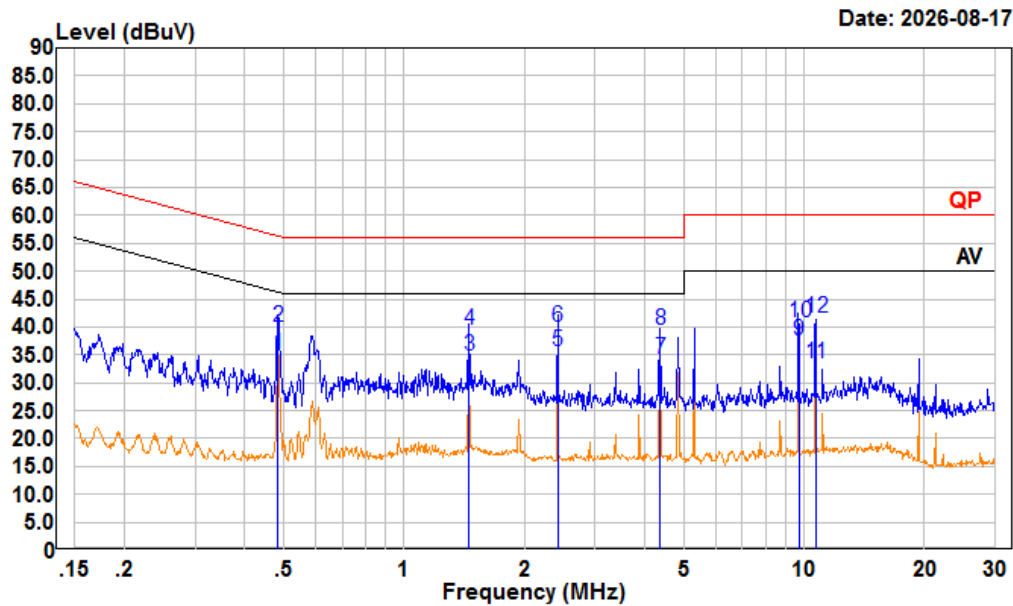
TEST DATA AND RESULTS

AC Line Conducted Emissions

Environmental Conditions

Temperature (°C)	25.1	Relative Humidity (%)	70
ATM Pressure (kPa)	99.6	Test engineer	Macy.shi
Test date	2026/8/17		
EUT operation mode	Transmitting (Maximum output power mode: BLE 1M Low channel)		

AC 120V 60 Hz, Line



Condition: Line

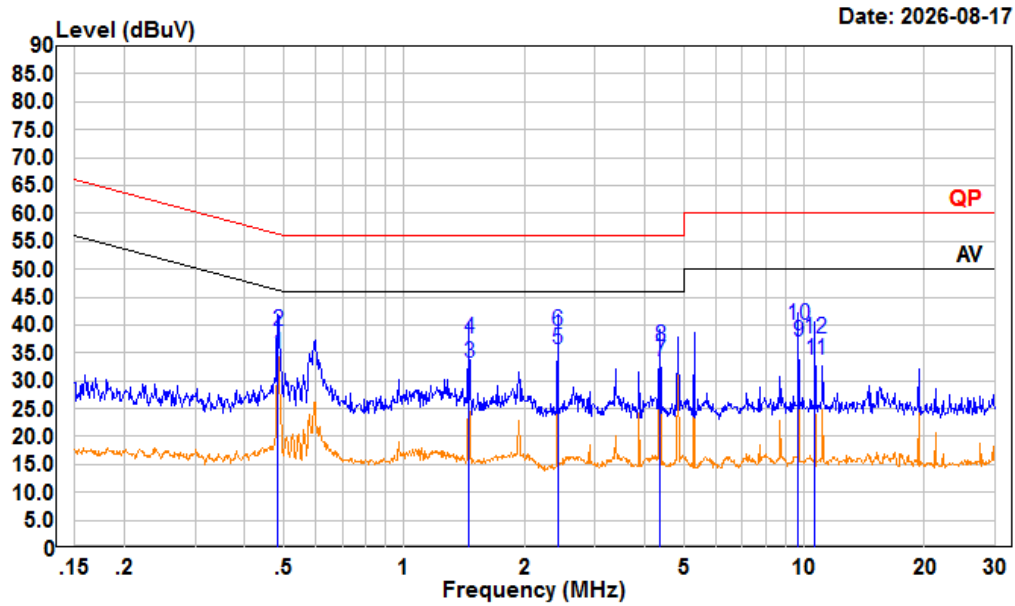
Project : 2601W73931E-RF

tester : Macy.shi Note: BLE Transmitting

Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.484	15.33	35.06	9.70	10.03	46.26	-11.20	Average
2	0.484	20.34	40.07	9.70	10.03	56.26	-16.19	QP
3	1.456	14.69	34.80	9.90	10.21	46.00	-11.20	Average
4	1.456	19.36	39.47	9.90	10.21	56.00	-16.53	QP
5	2.426	15.42	35.52	9.90	10.20	46.00	-10.48	Average
6	2.426	19.96	40.06	9.90	10.20	56.00	-15.94	QP
7	4.365	14.12	34.24	9.90	10.22	46.00	-11.76	Average
8	4.365	19.24	39.36	9.90	10.22	56.00	-16.64	QP
9	9.700	17.40	37.63	9.90	10.33	50.00	-12.37	Average
10	9.700	20.60	40.83	9.90	10.33	60.00	-19.17	QP
11	10.672	13.21	33.45	9.90	10.34	50.00	-16.55	Average
12	10.672	21.38	41.62	9.90	10.34	60.00	-18.38	QP

AC 120V 60 Hz, Neutral



Condition: neutral

Project : 2601W73931E-RF

tester : Macy.shi Note: BLE Transmitting

Setting : RBW:9kHz

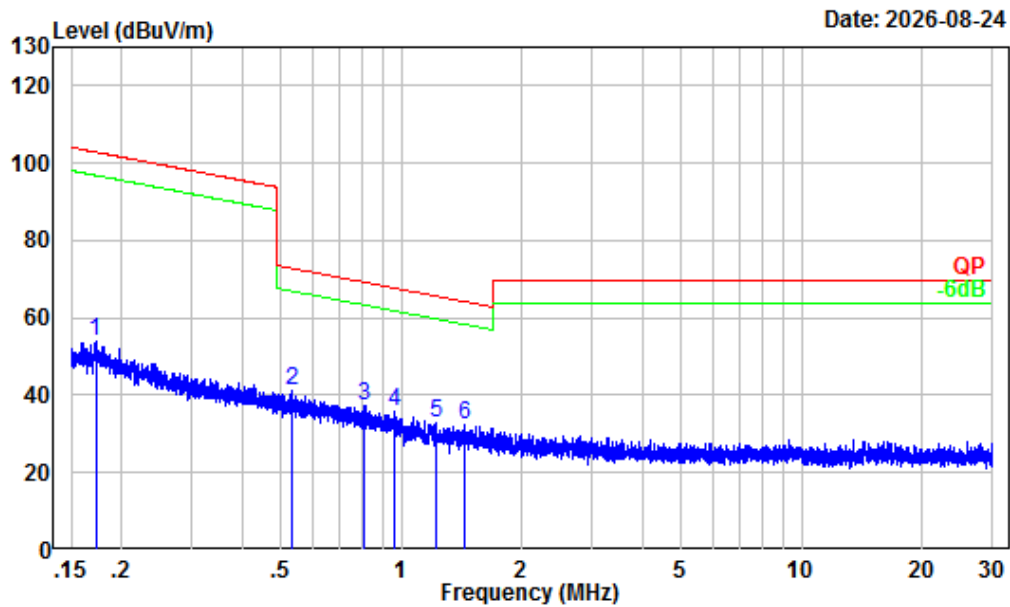
	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.484	15.06	34.69	9.60	10.03	46.27	-11.58	Average
2	0.484	19.34	38.97	9.60	10.03	56.27	-17.30	QP
3	1.456	13.43	33.24	9.60	10.21	46.00	-12.76	Average
4	1.456	17.60	37.41	9.60	10.21	56.00	-18.59	QP
5	2.421	15.92	35.72	9.60	10.20	46.00	-10.28	Average
6	2.421	19.00	38.80	9.60	10.20	56.00	-17.20	QP
7	4.359	13.65	33.49	9.62	10.22	46.00	-12.51	Average
8	4.359	16.37	36.21	9.62	10.22	56.00	-19.79	QP
9	9.677	17.01	37.03	9.70	10.32	50.00	-12.97	Average
10	9.677	20.08	40.10	9.70	10.32	60.00	-19.90	QP
11	10.638	13.78	33.82	9.70	10.34	50.00	-16.18	Average
12	10.638	17.60	37.64	9.70	10.34	60.00	-22.36	QP

Unwanted Emission Frequencies and Restricted Bands**Environmental Conditions**

Temperature (°C)	22.7&22.5	Relative Humidity (%)	53&57
ATM Pressure (kPa):	100.1&101.5	Test engineer:	Alex Yan&Leon Guo
Test date:	2026/8/24&2026/8/15		
EUT operation mode:	Below 1GHz: Transmitting(Maximum output power mode: BLE 1M Low channel) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 1GHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. 4. The spurious emission from 9 kHz-30MHz of IC RSS-GEN standard, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51,5 dB from dBμA/m to dBμV/m.		

Below 1GHz:

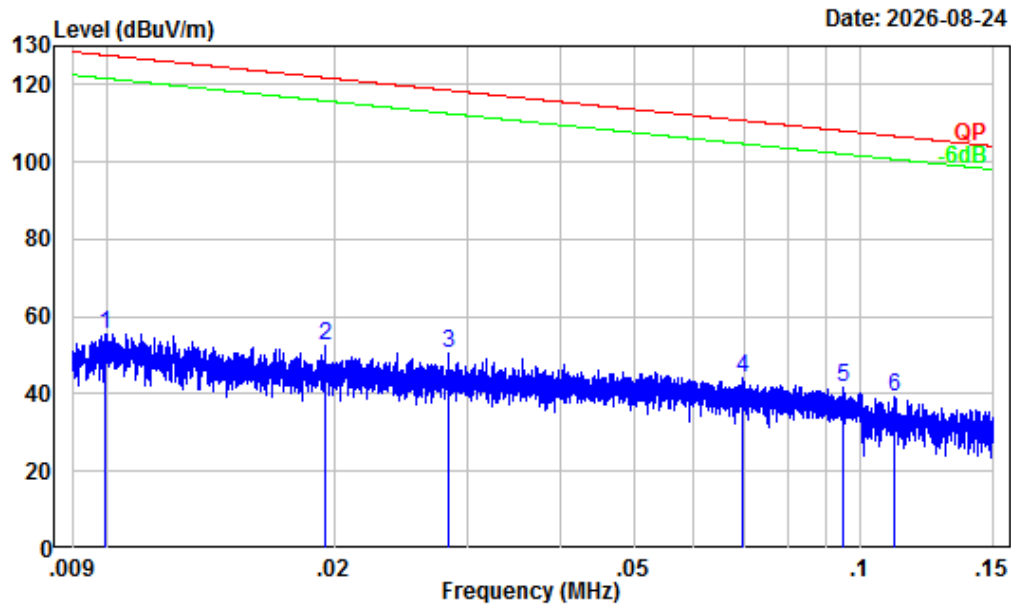
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2601W73931E-RF
Test Mode : BLE Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.172	17.72	36.18	53.90	102.87	-48.97	Peak
2	0.536	5.96	35.27	41.23	73.00	-31.77	Peak
3	0.806	2.65	34.88	37.53	69.38	-31.85	Peak
4	0.961	1.49	34.47	35.96	67.83	-31.87	Peak
5	1.222	0.58	32.47	33.05	65.70	-32.65	Peak
6	1.433	-0.01	32.60	32.59	64.28	-31.69	Peak

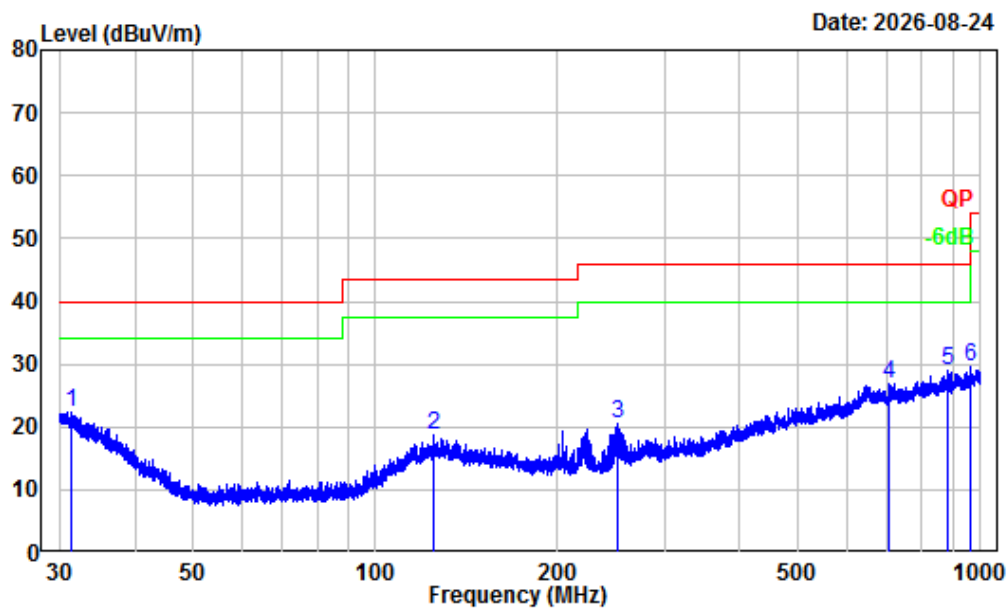
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2601W73931E-RF
Test Mode : BLE Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.30	23.34	55.64	127.62	-71.98	Peak
2	0.019	30.50	22.02	52.52	121.83	-69.31	Peak
3	0.028	28.81	21.56	50.37	118.55	-68.18	Peak
4	0.070	24.43	19.61	44.04	110.74	-66.70	Peak
5	0.095	22.35	19.23	41.58	108.05	-66.47	Peak
6	0.111	21.38	17.86	39.24	106.73	-67.49	Peak

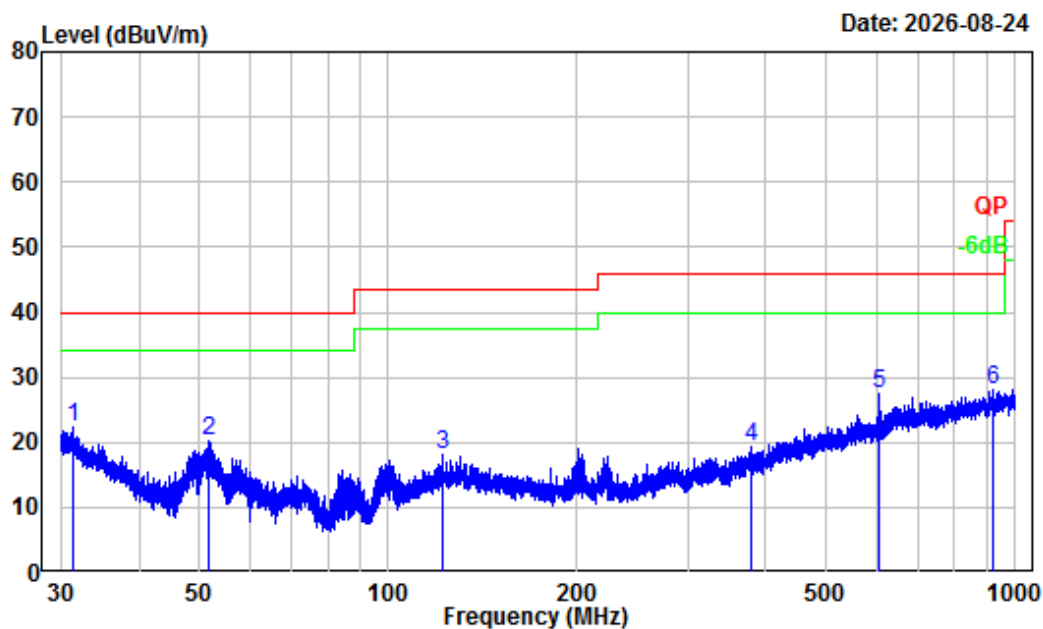
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601W73931E-RF
Test Mode : BLE Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.36	-6.59	28.98	22.39	40.00	-17.61	Peak
2	124.79	-10.89	29.52	18.63	43.50	-24.87	Peak
3	250.52	-13.29	33.86	20.57	46.00	-25.43	Peak
4	705.77	-3.11	29.90	26.79	46.00	-19.21	Peak
5	881.79	-1.13	30.15	29.02	46.00	-16.98	Peak
6	959.64	0.28	29.27	29.55	46.00	-16.45	Peak

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601W73931E-RF
Test Mode : BLE Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.399	-6.61	28.96	22.35	40.00	-17.65	Peak
2	51.662	-17.69	38.04	20.35	40.00	-19.65	Peak
3	121.709	-10.99	29.22	18.23	43.50	-25.27	Peak
4	379.415	-8.86	28.16	19.30	46.00	-26.70	Peak
5	608.320	-5.00	32.58	27.58	46.00	-18.42	Peak
6	924.135	-0.35	28.58	28.23	46.00	-17.77	Peak

Above 1GHz:

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
BLE 1M							
Low Channel							
4804	56.64	PK	H	-8.58	48.06	74	-25.94
4804	56.13	PK	V	-8.58	47.55	74	-26.45
7206	58.45	PK	H	-3.91	54.54	74	-19.46
7206	50.14	AV	H	-3.91	46.23	54	-7.77
7206	59.69	PK	V	-3.91	55.78	74	-18.22
7206	51.99	AV	V	-3.91	48.08	54	-5.92
Middle Channel							
4880	55.06	PK	H	-8.59	46.47	74	-27.53
4880	57.19	PK	V	-8.59	48.6	74	-25.4
7320	57.82	PK	H	-3.87	53.95	74	-20.05
7320	60.03	PK	V	-3.87	56.16	74	-17.84
7320	52.64	AV	V	-3.87	48.77	54	-5.23
High Channel							
4960	55.21	PK	H	-8.63	46.58	74	-27.42
4960	55.21	PK	V	-8.63	46.58	74	-27.42
7440	59.16	PK	H	-3.77	55.39	74	-18.61
7440	50.90	AV	H	-3.77	47.13	54	-6.87
7440	61.77	PK	V	-3.77	58.00	74	-16.00
7440	54.52	AV	V	-3.77	50.75	54	-3.25

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
BLE 2M							
Low Channel							
4804	56.27	PK	H	-8.58	47.69	74	-26.31
4804	56.29	PK	V	-8.58	47.71	74	-26.29
7206	58.74	PK	H	-3.91	54.83	74	-19.17
7206	46.76	AV	H	-3.91	42.85	54	-11.15
7206	59.42	PK	V	-3.91	55.51	74	-18.49
7206	48.03	AV	V	-3.91	44.12	54	-9.88
Middle Channel							
4880	54.47	PK	H	-8.59	45.88	74	-28.12
4880	57.78	PK	V	-8.59	49.19	74	-24.81
7320	57.21	PK	H	-3.87	53.34	74	-20.66
7320	59.32	PK	V	-3.87	55.45	74	-18.55
7320	48.44	AV	V	-3.87	44.57	54	-9.43
High Channel							
4960	54.94	PK	H	-8.63	46.31	74	-27.69
4960	55.57	PK	V	-8.63	46.94	74	-27.06
7440	58.96	PK	H	-3.77	55.19	74	-18.81
7440	47.57	AV	H	-3.77	43.80	54	-10.20
7440	61.26	PK	V	-3.77	57.49	74	-16.51
7440	50.24	AV	V	-3.77	46.47	54	-7.53

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

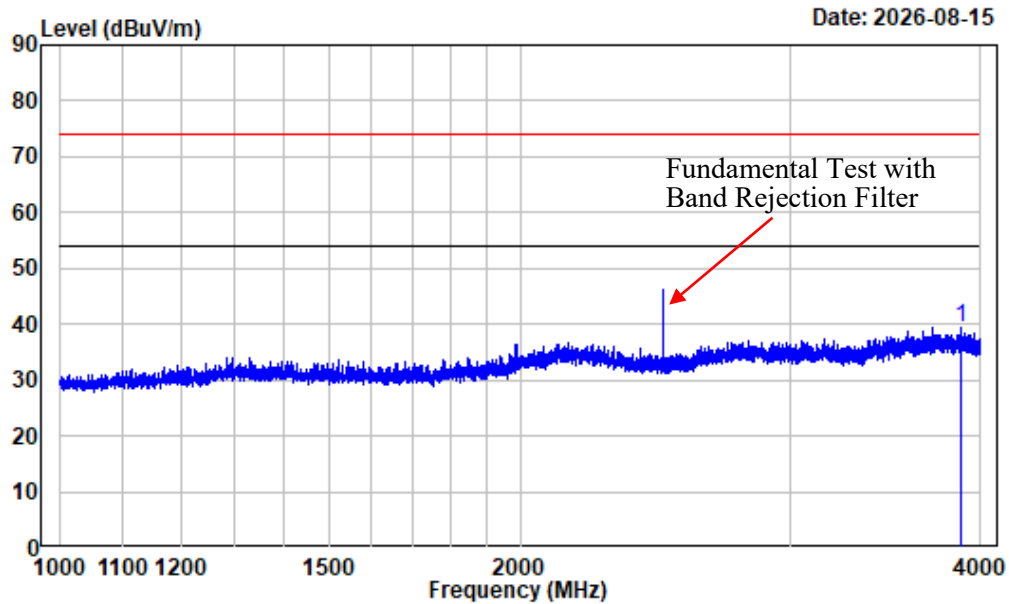
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots:

1-25GHz (Listed with the worst case test plot)

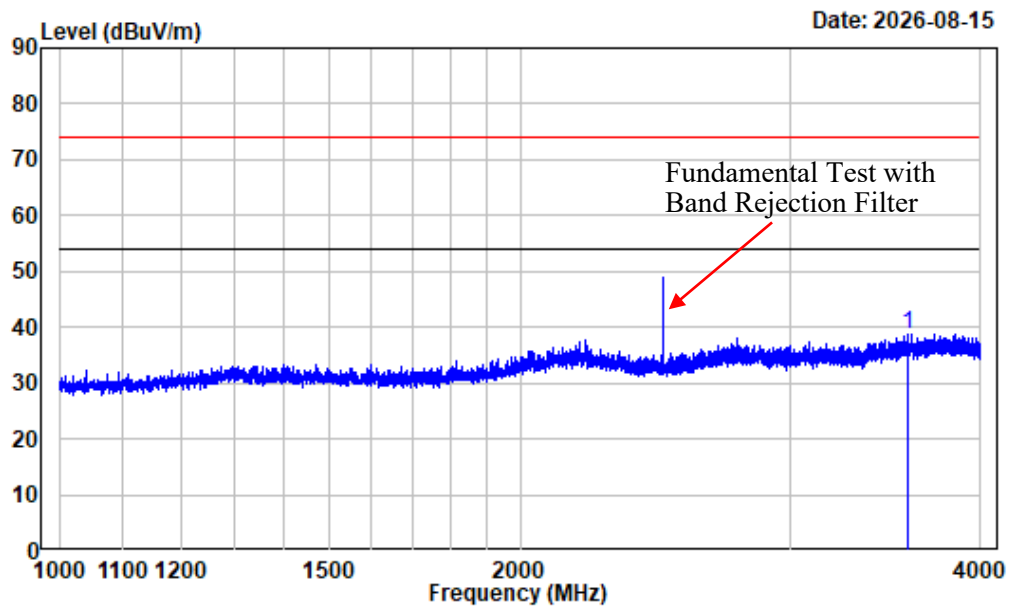
1-4GHz_Horizontal BLE 1M



Condition : Horizontal
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : BLE_1M_2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3883.375	-8.60	48.08	39.48	74.00	-34.52	Peak

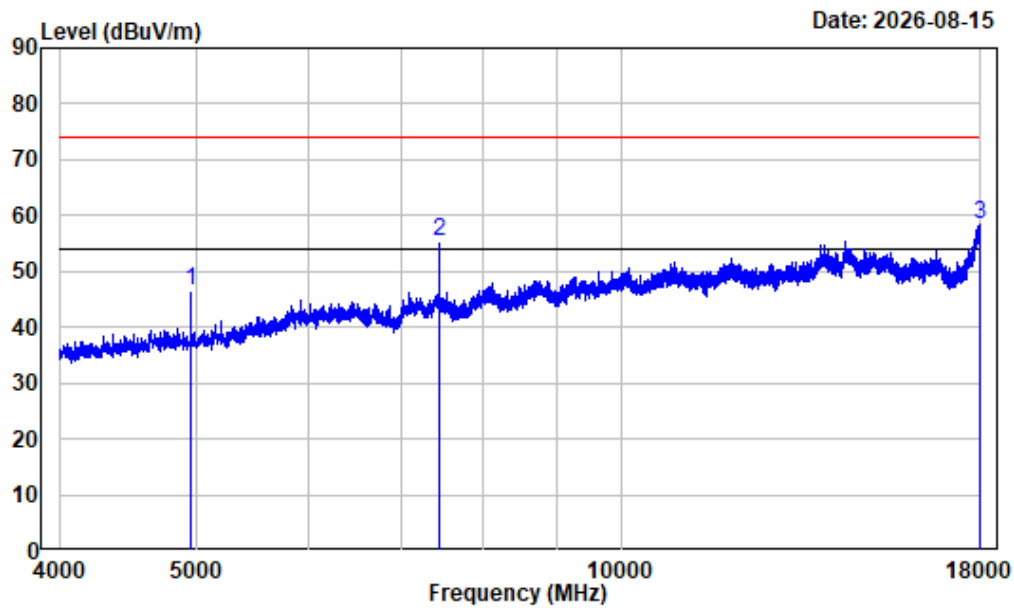
1-4GHz_Vertical BLE 1M



Condition : Vertical
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : BLE_1M_2480

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 3582.625	-8.92	47.80	38.88	74.00	-35.12	Peak

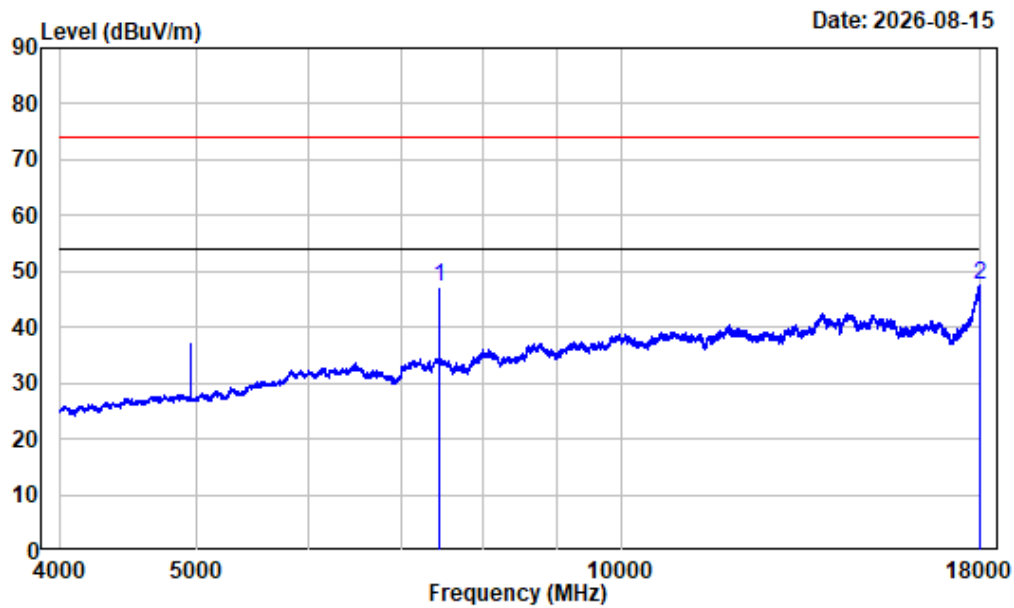
4-18GHz_Horizontal_Peak BLE 1M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1	4960.000	-8.63	55.21	46.58	74.00 -27.42 Peak
2	7440.500	-3.77	59.16	55.39	74.00 -18.61 Peak
3	17965.000	10.17	48.19	58.36	74.00 -15.64 Peak

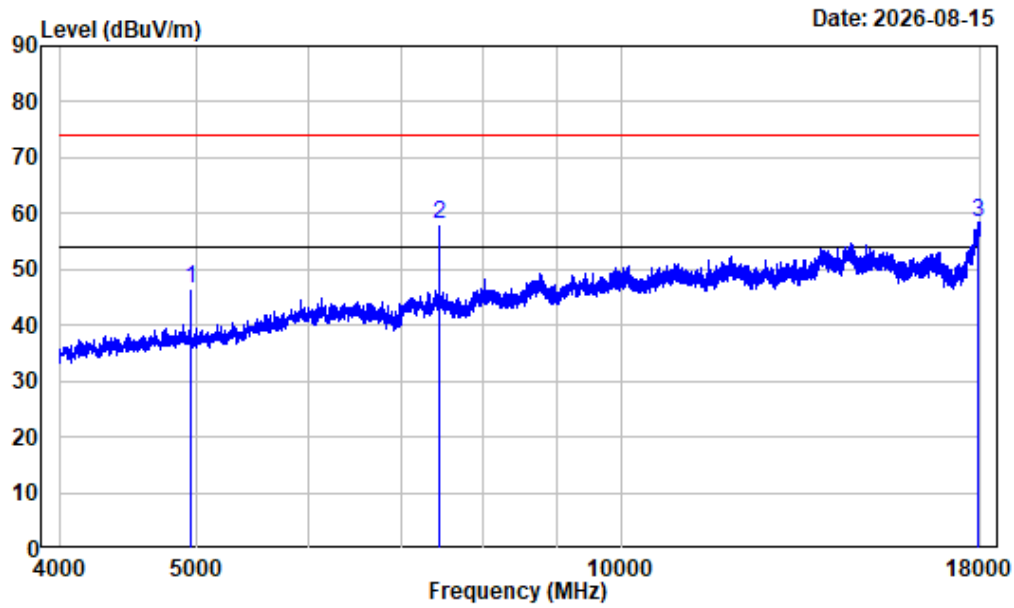
4-18GHz_Horizontal_Average BLE 1M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 7440.000	-3.77	50.90	47.13	54.00	-6.87	Average
2 17991.250	10.64	36.88	47.52	54.00	-6.48	Average

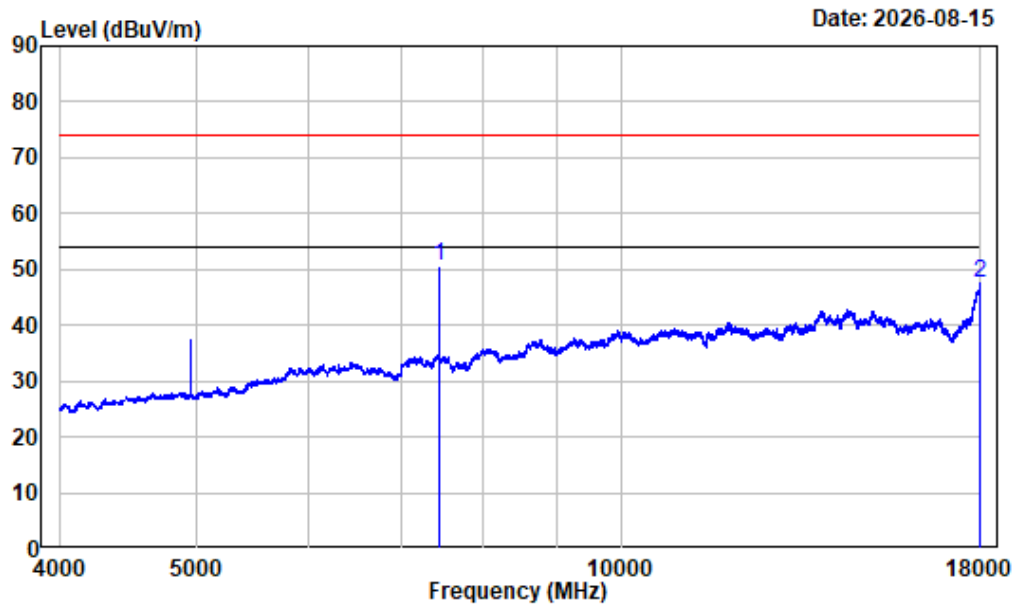
4-18GHz_Vertical_Peak BLE 1M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 4960.000	-8.63	55.21	46.58	74.00	-27.42 Peak
2 7440.000	-3.77	61.77	58.00	74.00	-16.00 Peak
3 17945.750	9.86	48.71	58.57	74.00	-15.43 Peak

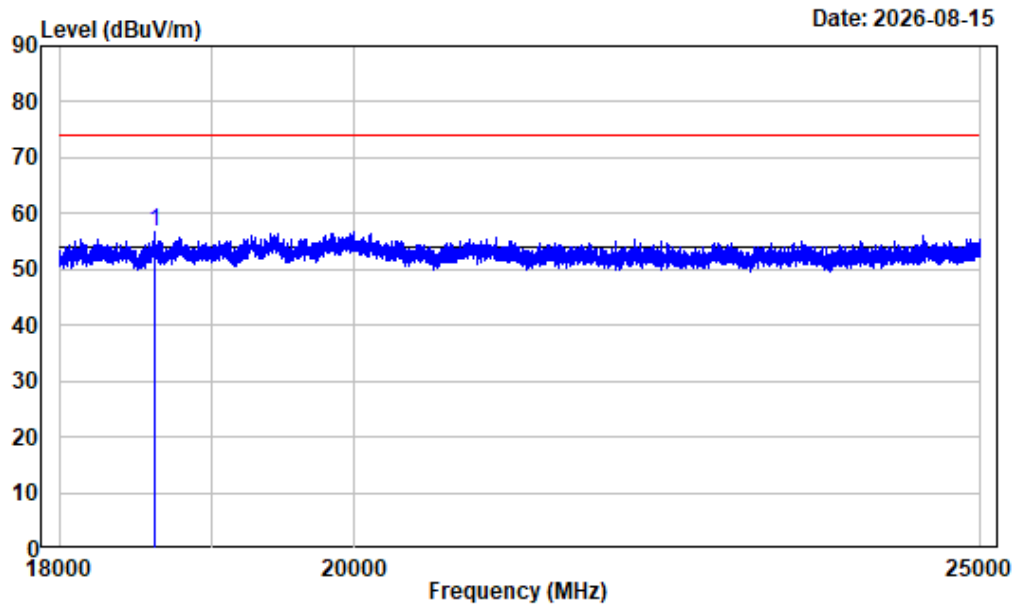
4-18GHz_Vertical_Average BLE 1M



Condition : Vertical
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
 Note : BLE_1M_2480

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 7440.000	-3.77	54.52	50.75	54.00	-3.25	Average
2 17986.000	10.55	37.14	47.69	54.00	-6.31	Average

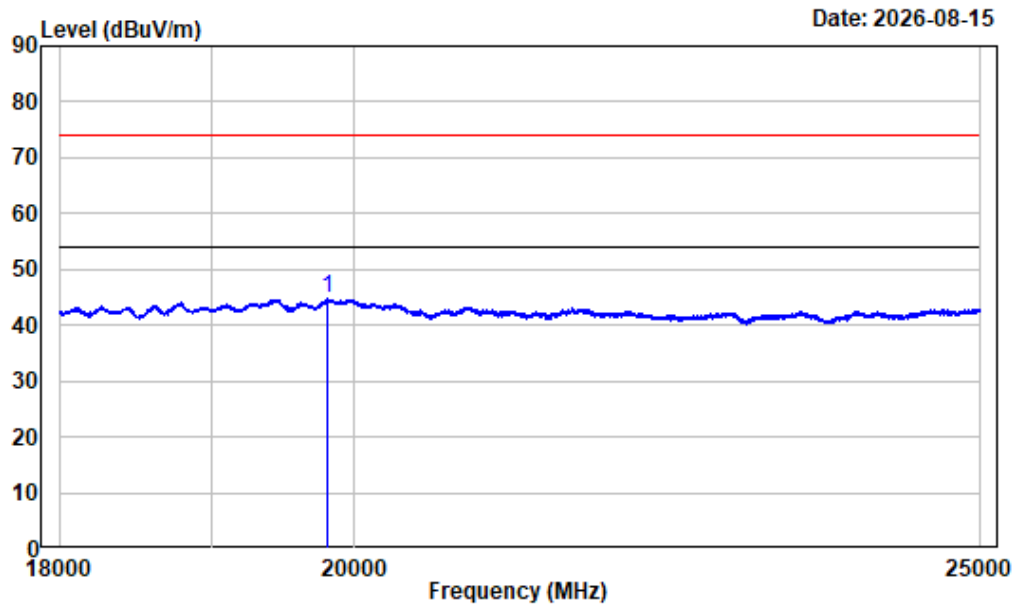
18-25GHz_Horizontal_Peak BLE 1M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 18623.000	16.64	40.15	56.79	74.00	-17.21 Peak

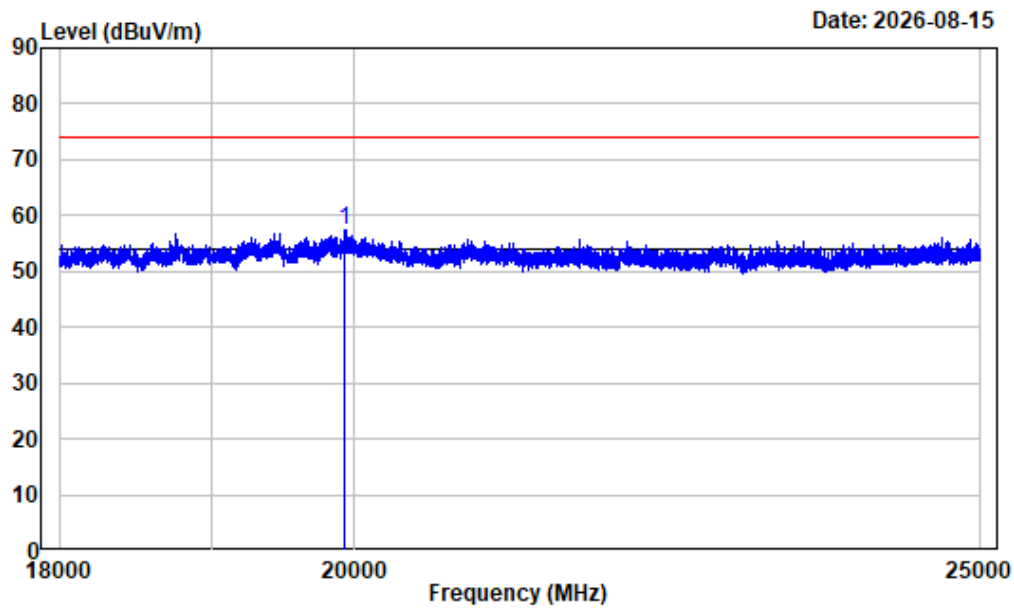
18-25GHz_Horizontal_Average BLE 1M



Condition : Horizontal
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
 Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 19805.130	17.74	27.20	44.94	54.00	-9.06 Average

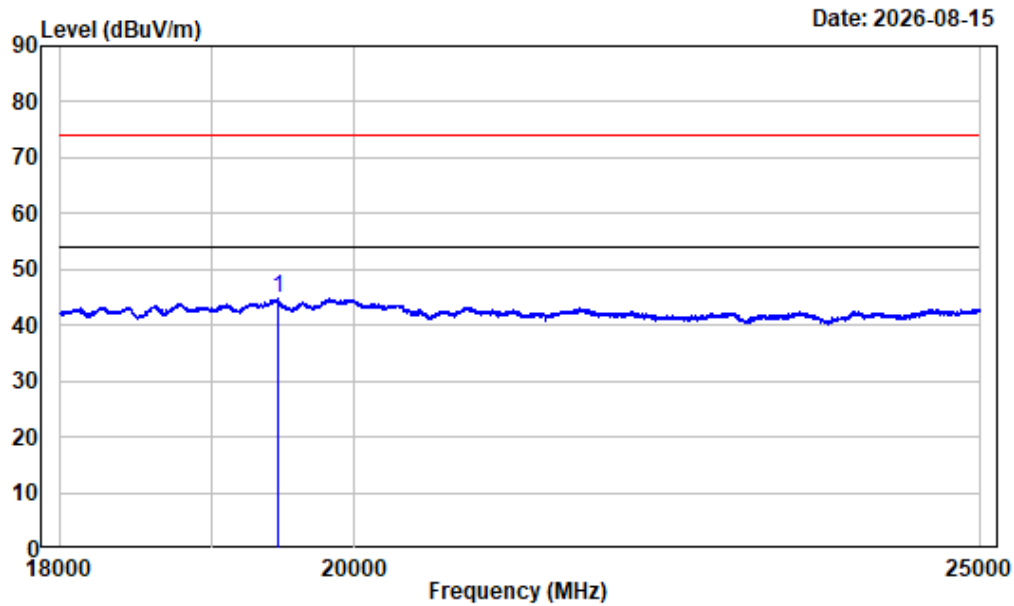
18-25GHz_Vertical_Peak BLE 1M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 19932.880	17.81	39.65	57.46	74.00	-16.54 Peak

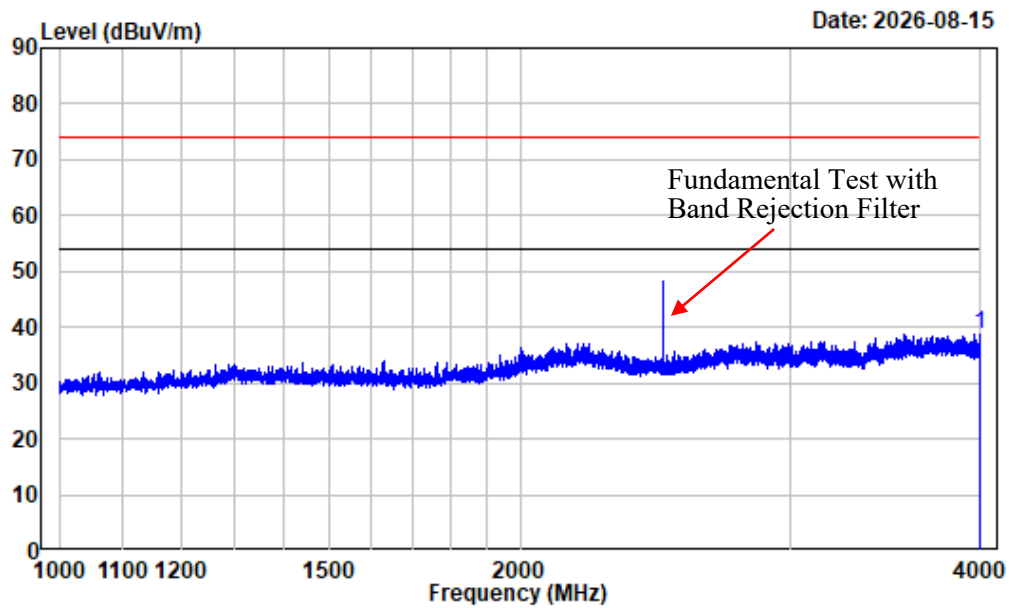
18-25GHz_Vertical_Average BLE 1M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 19456.000	17.34	27.44	44.78	54.00	-9.22 Average

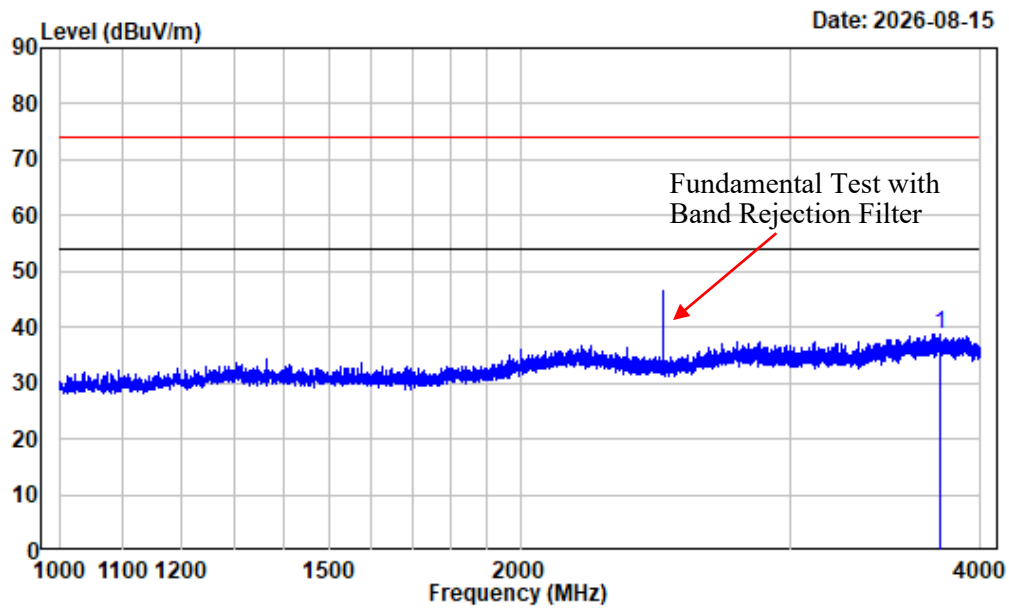
1-4GHz_Horizontal BLE 2M



Condition : Horizontal
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : BLE_2M_2480

Freq Factor		Read	Limit	Over	Remark
Level	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 3993.625	-9.28	47.95	38.67	74.00	-35.33 Peak

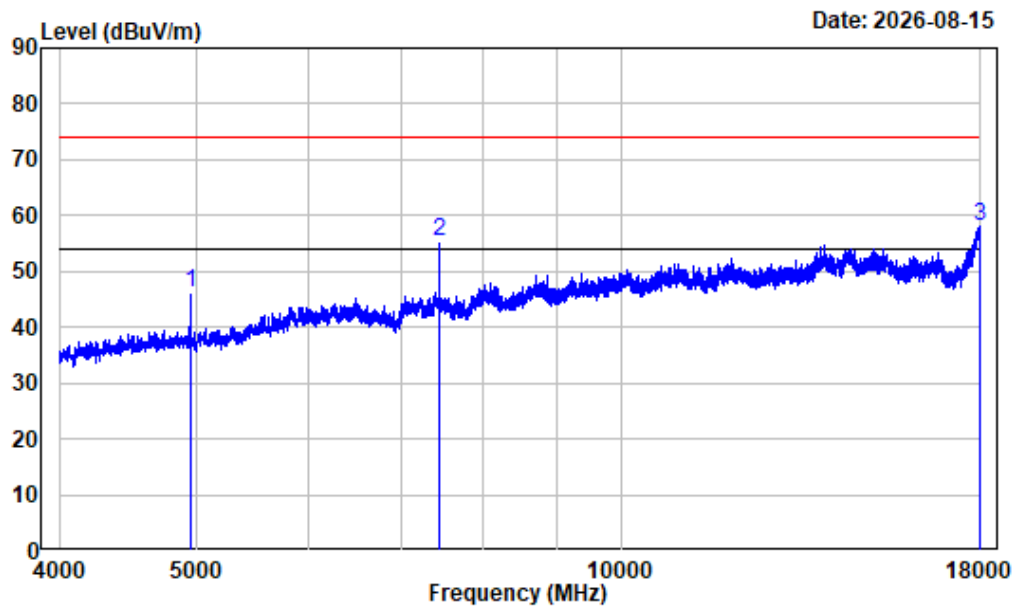
1-4GHz_Vertical BLE 2M



Condition : Vertical
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : BLE_2M_2480

Freq Factor		Read	Limit	Over	Remark
Level	Level	Line	Limit	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 3763.375	-8.68	47.46	38.78	74.00	-35.22 Peak

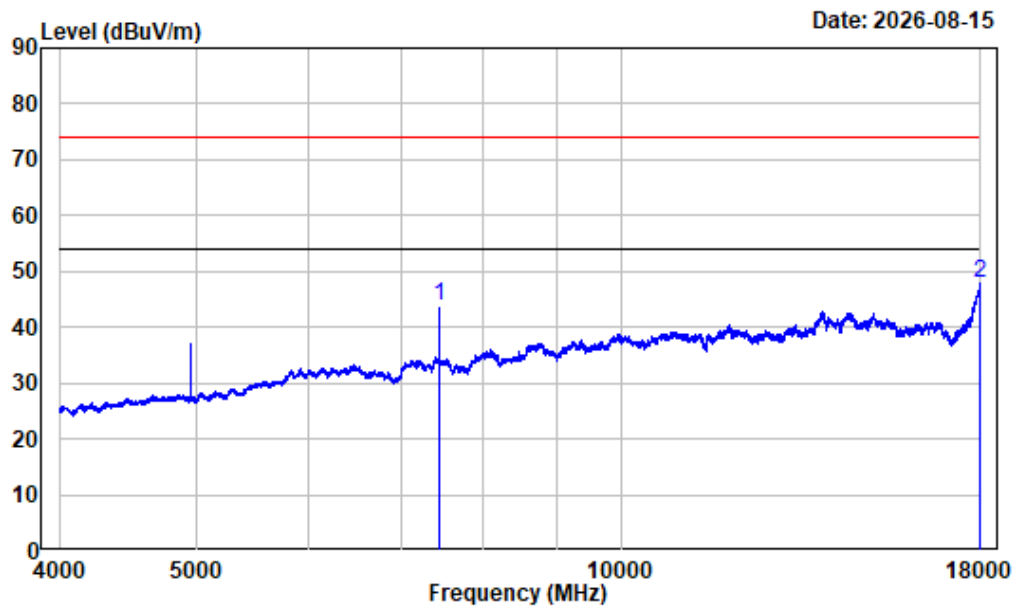
4-18GHz_Horizontal_Peak BLE 2M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 4960.000	-8.63	54.94	46.31	74.00	-27.69 Peak
2 7440.000	-3.77	58.96	55.19	74.00	-18.81 Peak
3 17979.000	10.42	47.74	58.16	74.00	-15.84 Peak

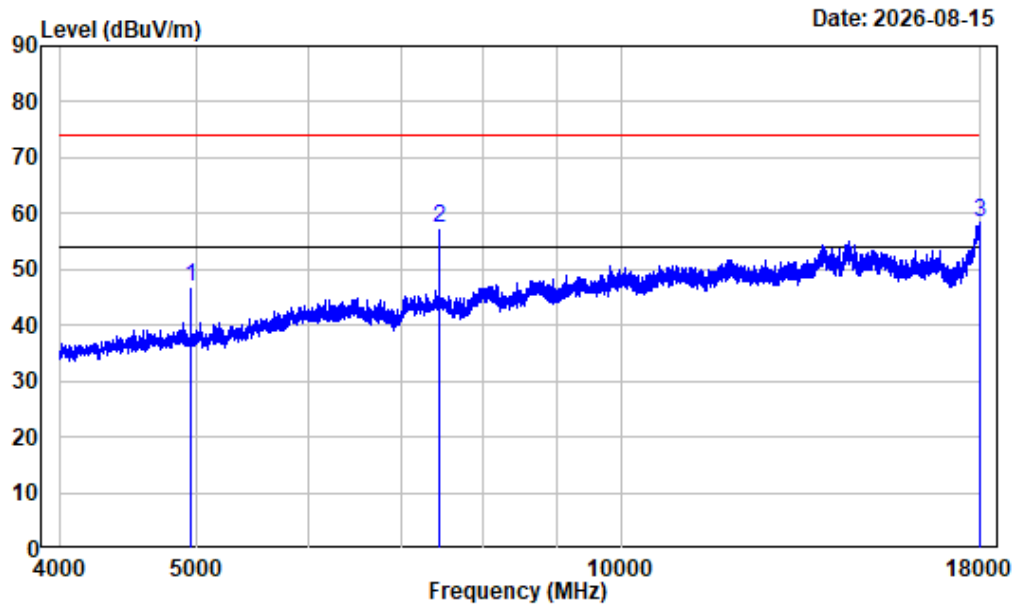
4-18GHz_Horizontal_Average BLE 2M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : BLE_2M_2480

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 7440.000	-3.77	47.57	43.80	54.00	-10.20	Average
2 17989.500	10.61	37.16	47.77	54.00	-6.23	Average

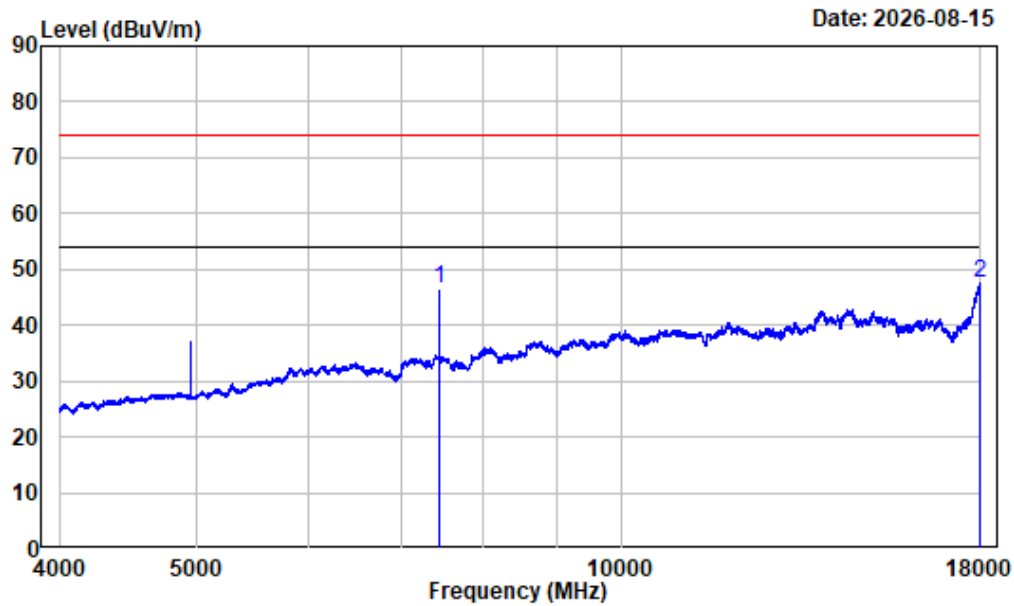
4-18GHz_Vertical_Peak BLE 2M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4960.000	-8.63	55.57	46.94	74.00	-27.06	Peak
2	7440.000	-3.77	61.26	57.49	74.00	-16.51	Peak
3	17994.750	10.71	47.57	58.28	74.00	-15.72	Peak

4-18GHz_Vertical_Average BLE 2M

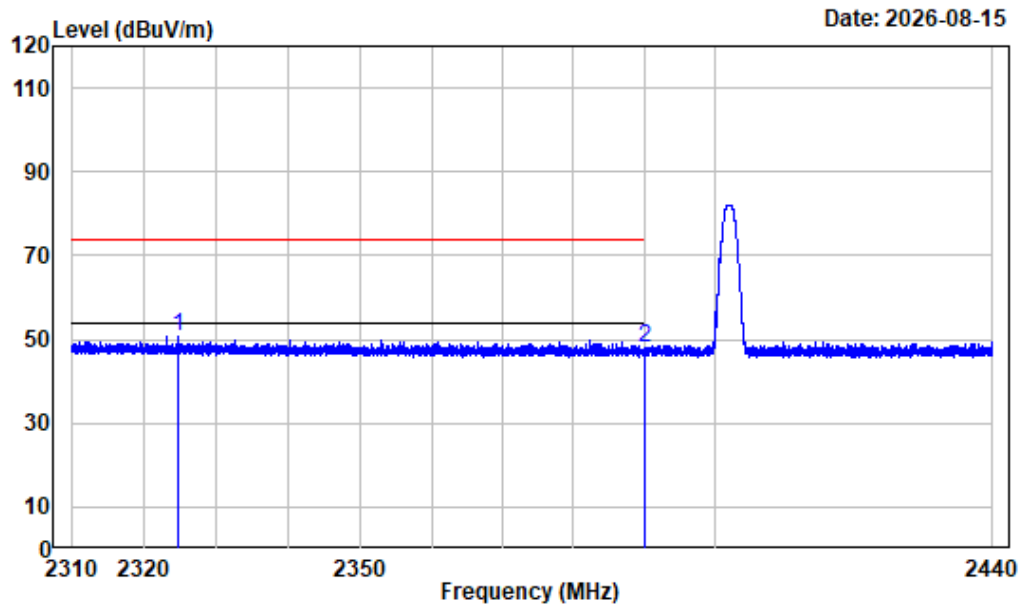


Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : BLE_2M_2480

Freq	Factor	Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 7440.000	-3.77	50.24	46.47	54.00	-7.53	Average
2 17994.750	10.71	36.82	47.53	54.00	-6.47	Average

Band Edge

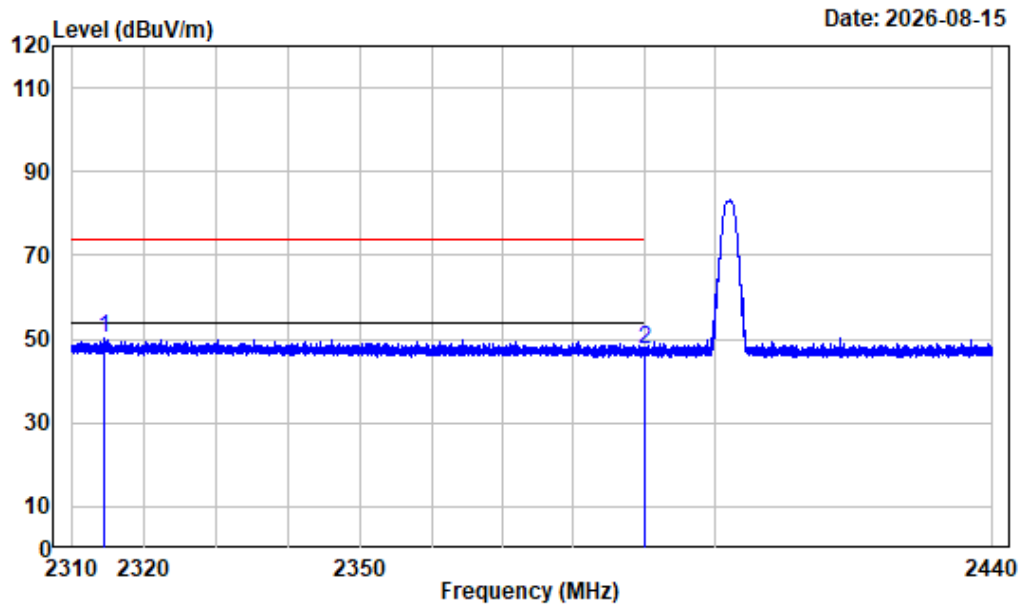
Left Band edge_Horizontal_Peak BLE 1M



Condition : Horizontal
 Project No. : 2601W73931E-RF
 Tester : Leon Guo
 Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
 Note : BLE_1M_2402

Freq Factor		Read	Limit	Over	Remark
Level	Level	Line	Limit	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 2324.820	-11.29	62.16	50.87	74.00	-23.13 Peak
2 2390.000	-11.94	59.94	48.00	74.00	-26.00 Peak

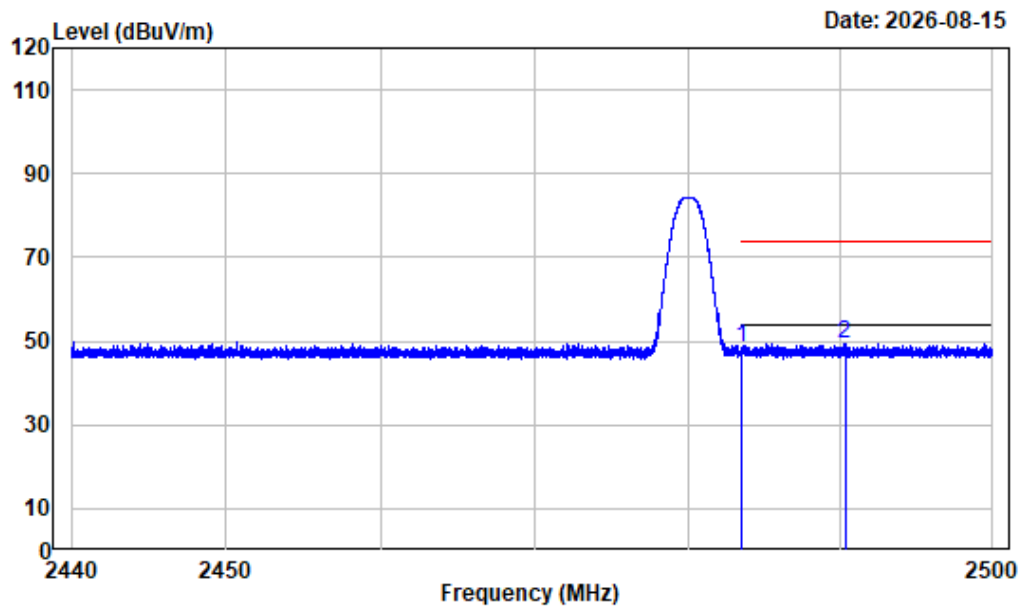
Left Band edge_Vertical_Peak BLE 1M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2402

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2314.436	-11.19	61.38	50.19	74.00	-23.81	Peak
2	2390.000	-11.94	59.32	47.38	74.00	-26.62	Peak

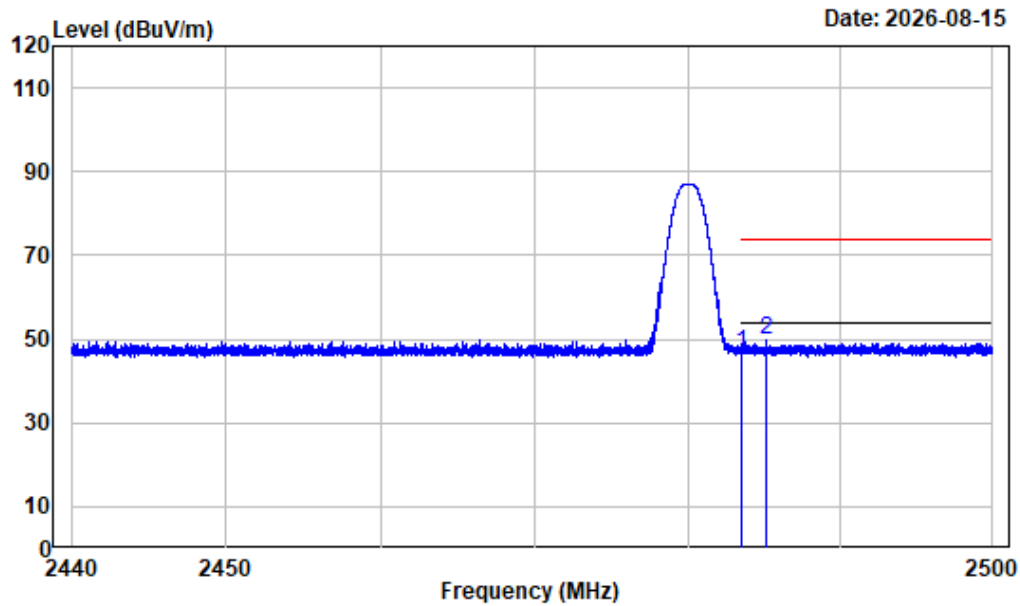
Right Band edge_Horizontal_Peak BLE 1M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 2483.500	-12.27	60.65	48.38	74.00	-25.62 Peak
2 2490.295	-12.31	61.89	49.58	74.00	-24.42 Peak

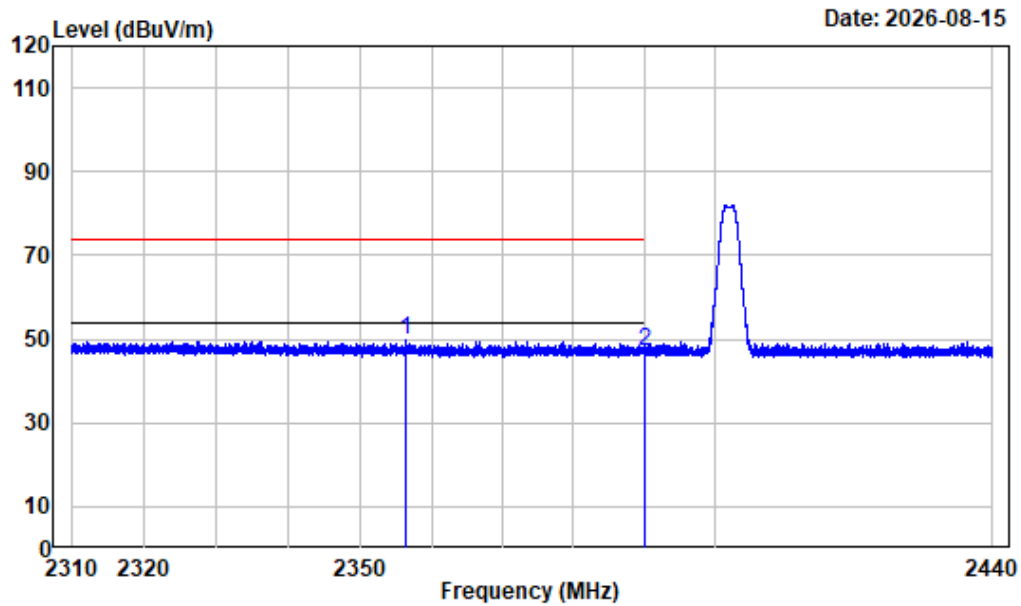
Right Band edge_Vertical_Peak BLE 1M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_1M_2480

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.500	-12.27	59.11	46.84	74.00	-27.16	Peak
2 2485.180	-12.28	61.95	49.67	74.00	-24.33	Peak

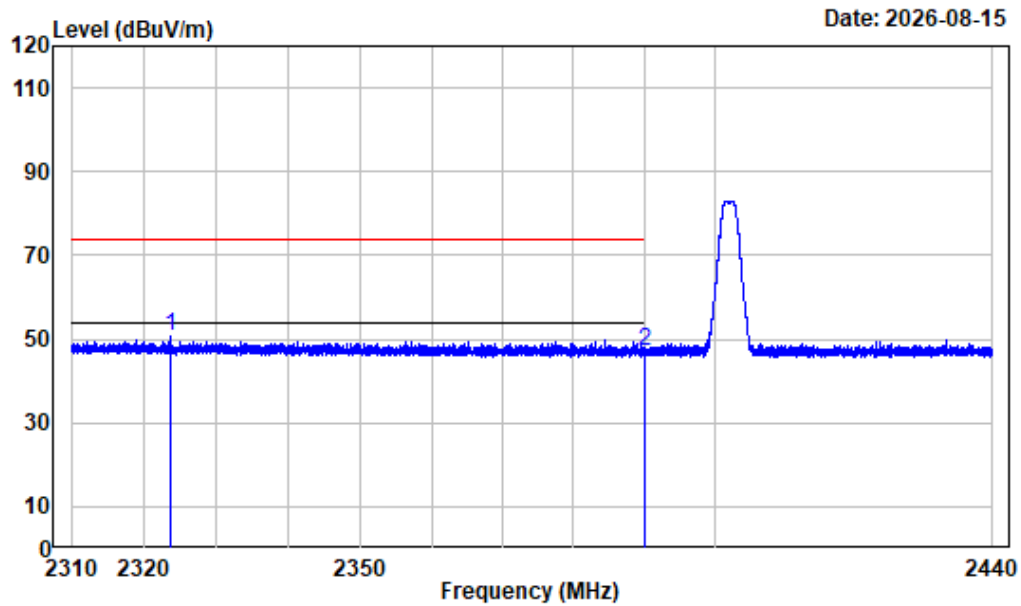
Left Band edge_Horizontal_Peak BLE 2M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2356.442	-11.58	61.52	49.94	74.00	-24.06	Peak
2	2390.000	-11.94	59.04	47.10	74.00	-26.90	Peak

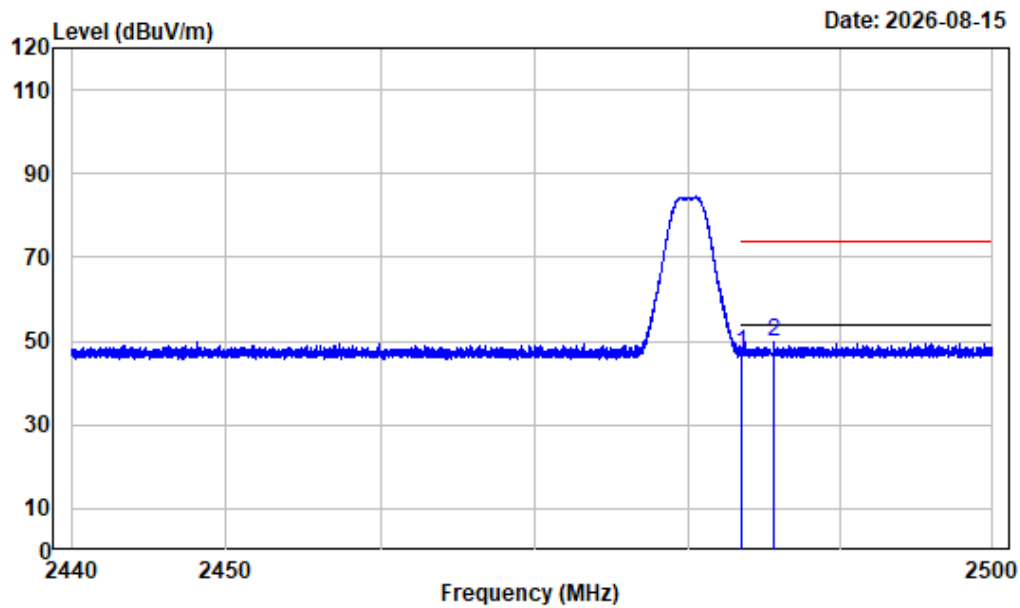
Left Band edge_Vertical_Peak BLE 2M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2402

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2323.699	-11.28	62.19	50.91	74.00	-23.09	Peak
2	2390.000	-11.94	58.88	46.94	74.00	-27.06	Peak

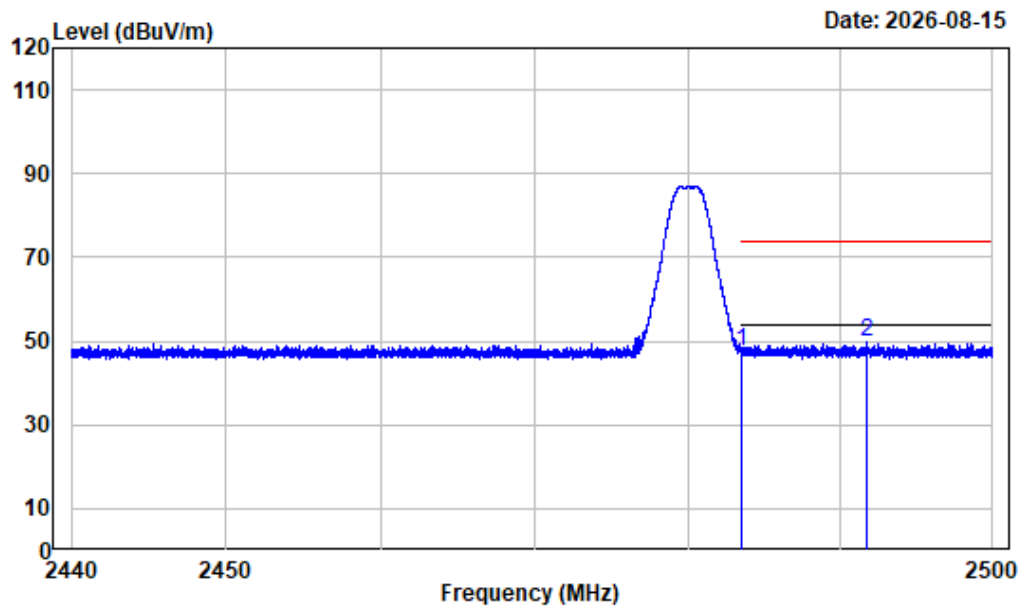
Right Band edge_Horizontal_Peak BLE 2M



Condition : Horizontal
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2402

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.500	-12.27	59.30	47.03	74.00	-26.97	Peak
2 2485.667	-12.28	62.12	49.84	74.00	-24.16	Peak

Right Band edge_Vertical_Peak BLE 2M



Condition : Vertical
Project No. : 2601W73931E-RF
Tester : Leon Guo
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BLE_2M_2402

Freq Factor		Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.500	-12.27	59.66	47.39	74.00	-26.61	Peak
2 2491.735	-12.32	62.02	49.70	74.00	-24.30	Peak

RF Conducted data**Test Information:**

Sample No.:	3RE8-2	Test Date:	2026/08/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Vern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.1
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6dB Emission Bandwidth**BLE 1M**

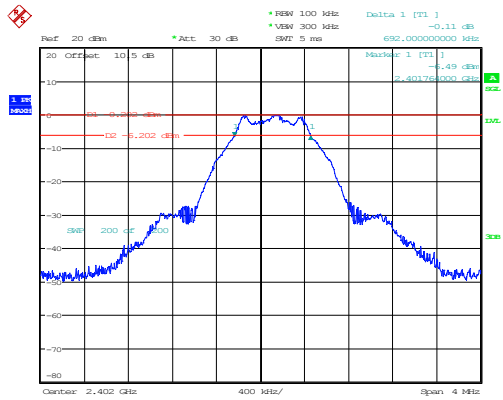
Channel	Result (MHz)	Limit (MHz)	Verdict
Low Channel	0.692	≥ 0.5	Pass
Middle Channel	0.688	≥ 0.5	Pass
High Channel	0.692	≥ 0.5	Pass

BLE 2M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low Channel	1.182	≥ 0.5	Pass
Middle Channel	1.176	≥ 0.5	Pass
High Channel	1.176	≥ 0.5	Pass

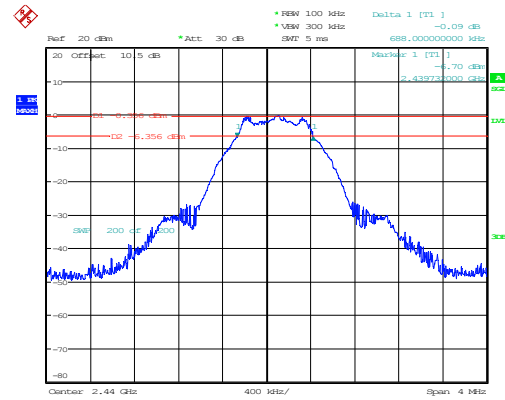
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:32:10

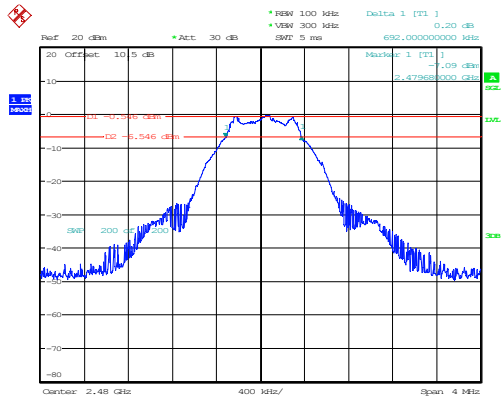
BLE_1M_Middle_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:38:47

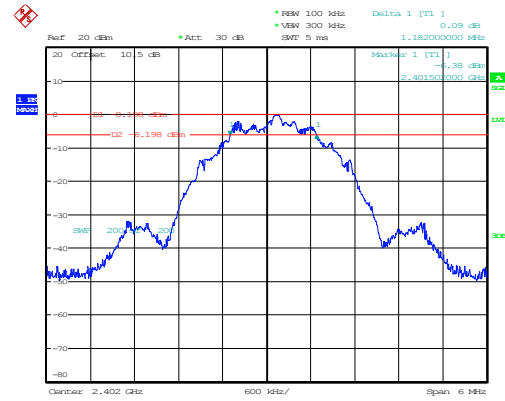
BLE 2M

BLE_1M_High_Channel



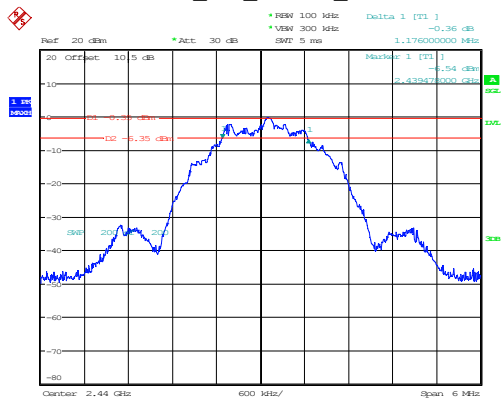
ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:41:31

BLE_2M_Low_Channel



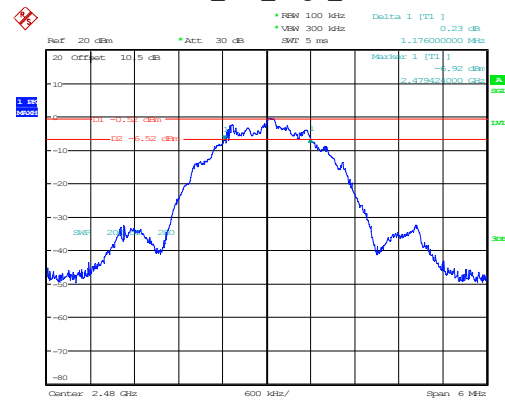
ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:46:09

BLE_2M_Middle_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:50:15

BLE_2M_High_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:53:13

99% Occupied Bandwidth**BLE 1M**

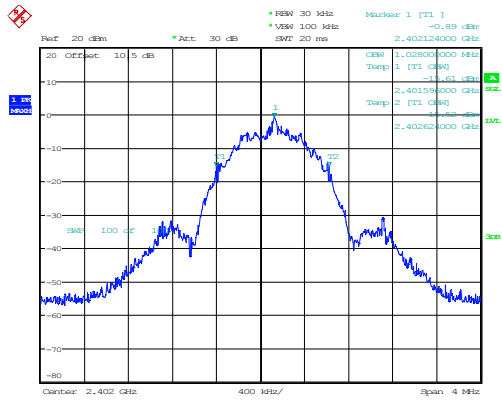
Channel	99% OBW (MHz)
Low Channel	1.028
Middle Channel	1.020
High Channel	1.020

BLE 2M

Channel	99% OBW (MHz)
Low Channel	2.022
Middle Channel	2.016
High Channel	2.022

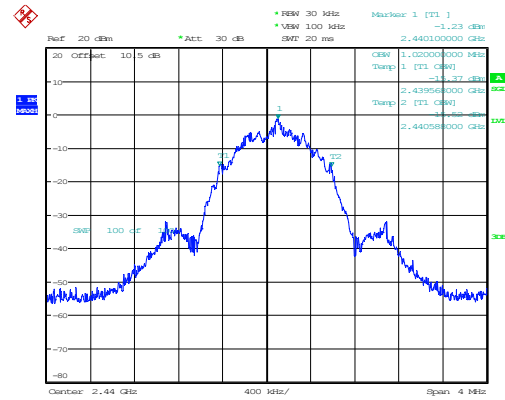
BLE 1M

BLE_1M_Low_Channel



ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:32:50

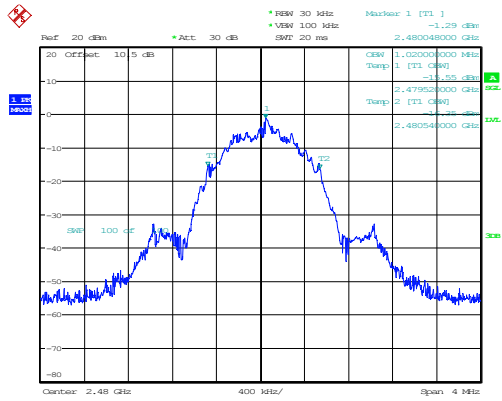
BLE_1M_Middle_Channel



ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:39:27

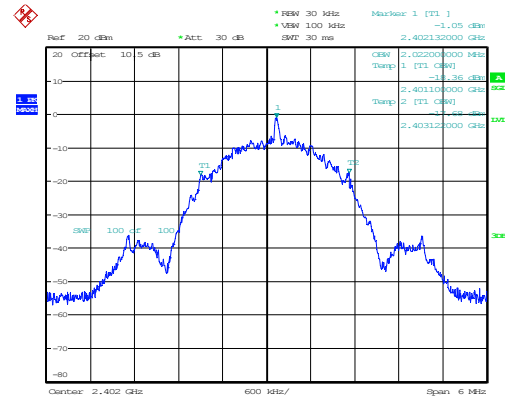
BLE 2M

BLE_1M_High_Channel



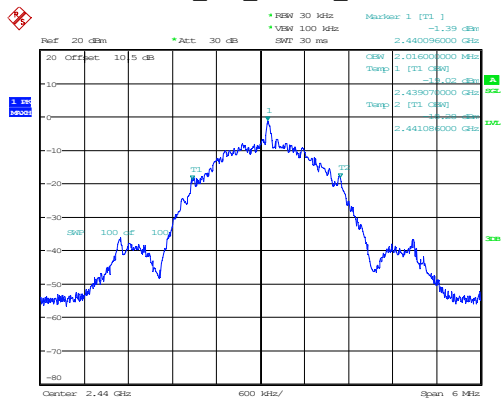
ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:42:22

BLE_2M_Low_Channel



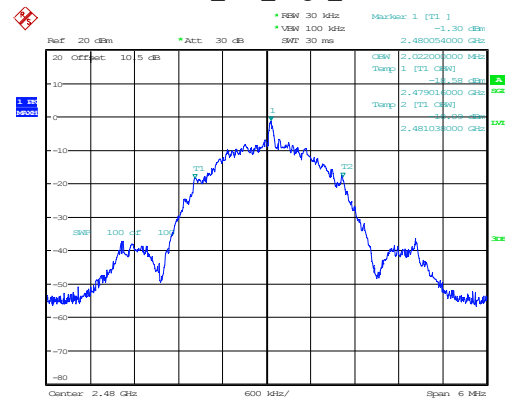
ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:46:48

BLE_2M_Middle_Channel



ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:50:56

BLE_2M_High_Channel



ProjectNo.: 2601W73931E-RF
Date: 21.AUG.2026 21:53:50

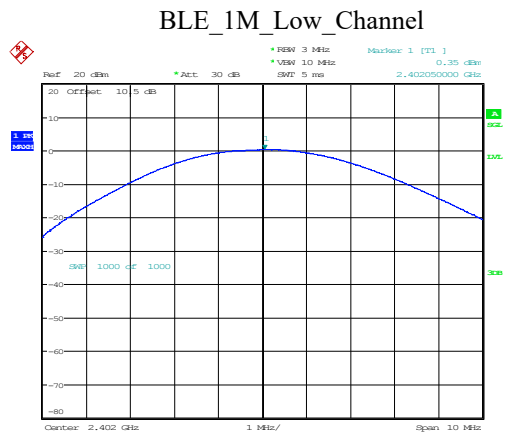
Maximum Conducted Output Power**BLE 1M**

Channel	Peak Output Power (dBm)	Limit (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Low Channel	0.35	30.00	0.19	36.00	Pass
Middle Channel	0.19	30.00	0.03	36.00	Pass
High Channel	0.03	30.00	-0.13	36.00	Pass

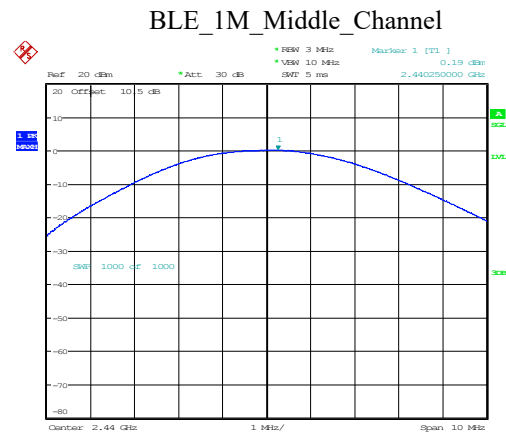
BLE 2M

Channel	Peak Output Power (dBm)	Limit (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Low Channel	0.34	30.00	0.18	36.00	Pass
Middle Channel	0.20	30.00	0.04	36.00	Pass
High Channel	0.04	30.00	-0.12	36.00	Pass

BLE 1M

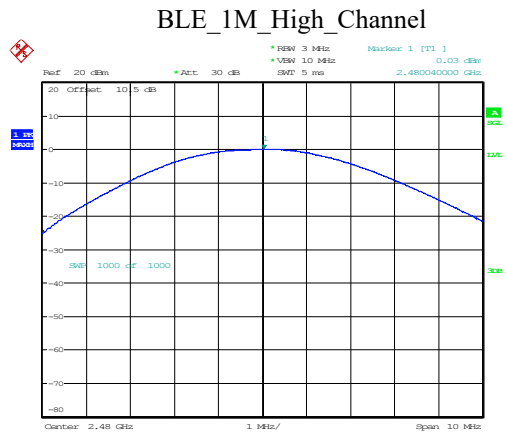


ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:33:38

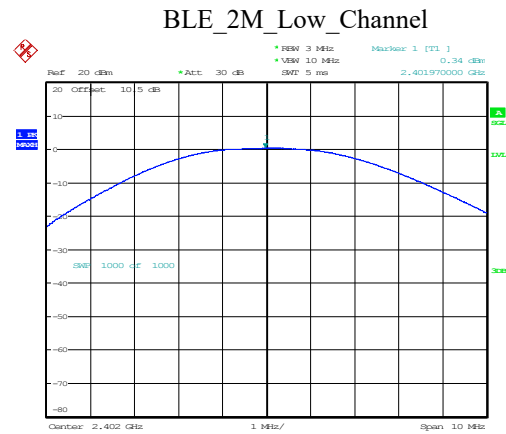


ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:40:16

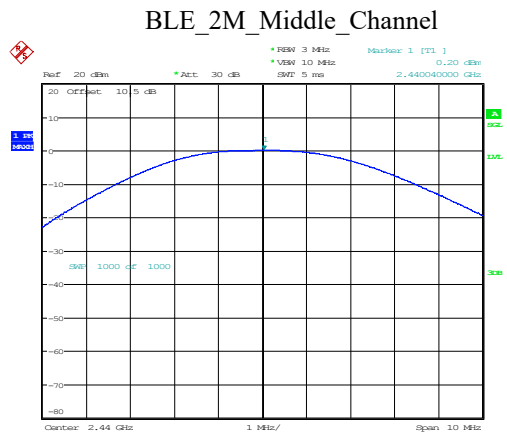
BLE 2M



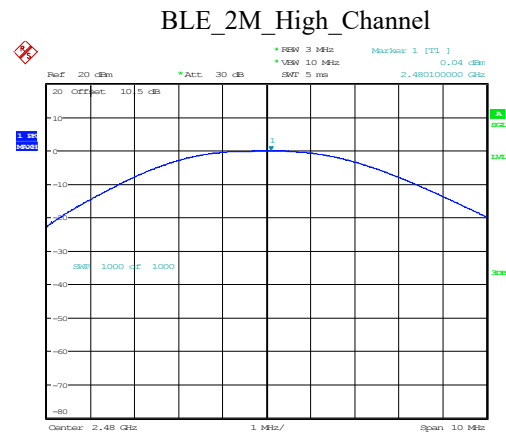
ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:43:13



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:47:40



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:51:50



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:54:51

Power Spectral Density**BLE 1M**

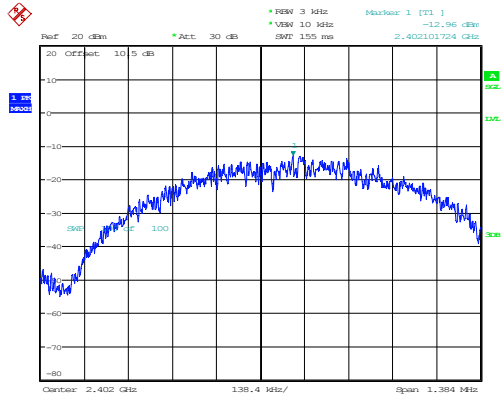
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-12.96	8	Pass
Middle Channel	-12.78	8	Pass
High Channel	-13.22	8	Pass

BLE 2M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low Channel	-12.89	8	Pass
Middle Channel	-12.95	8	Pass
High Channel	-13.49	8	Pass

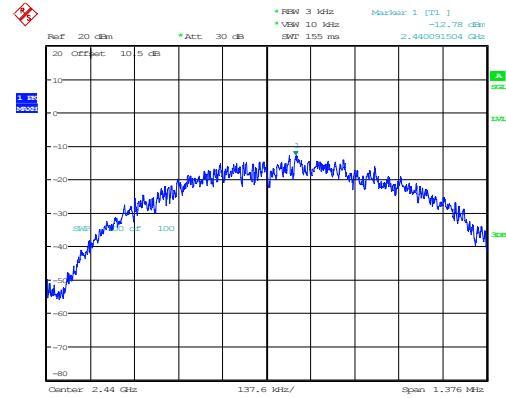
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:37:54

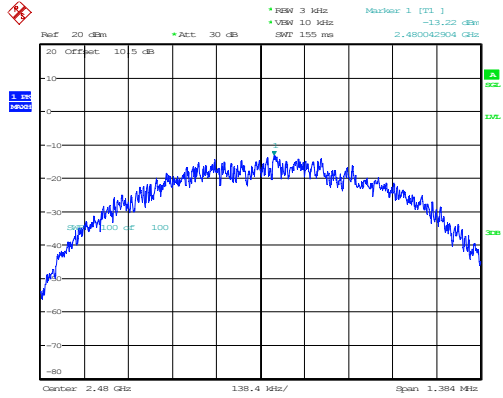
BLE_1M_Middle_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:40:38

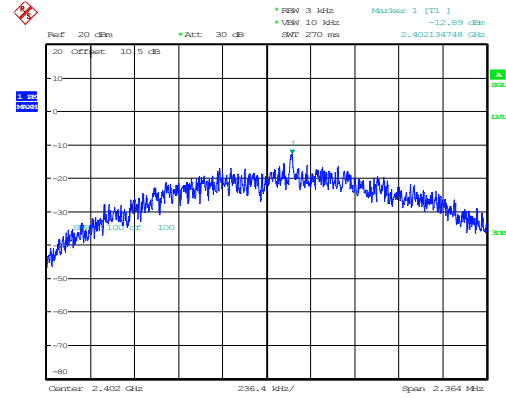
BLE 2M

BLE_1M_High_Channel



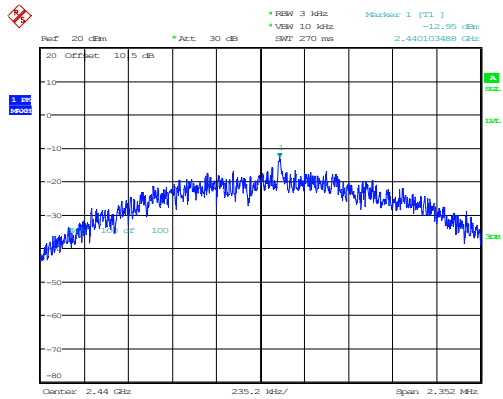
ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:45:01

BLE_2M_Low_Channel



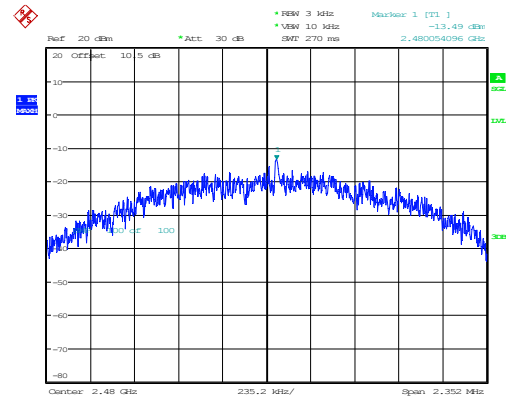
ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:49:43

BLE_2M_Middle_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:52:23

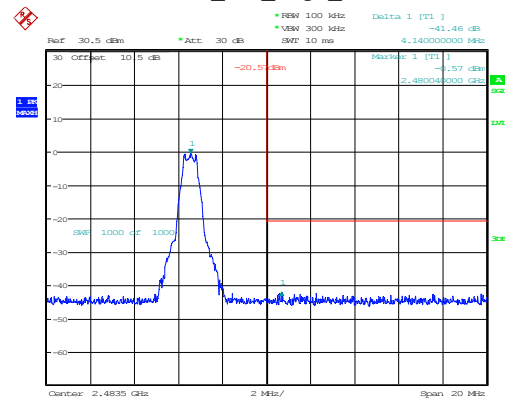
BLE_2M_High_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:56:52

BLE 1M

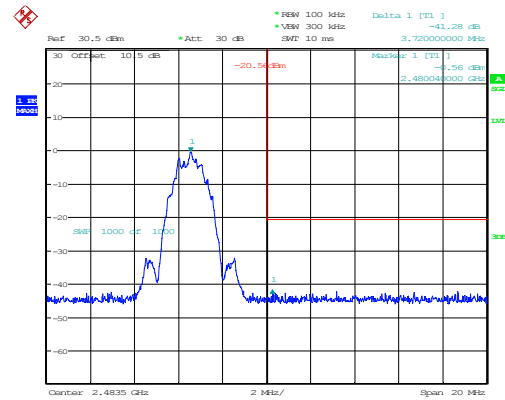
BLE_1M_High_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:44:39

BLE_2M_High_Channel

BLE_2M_High_Channel



ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:56:18

Duty Cycle

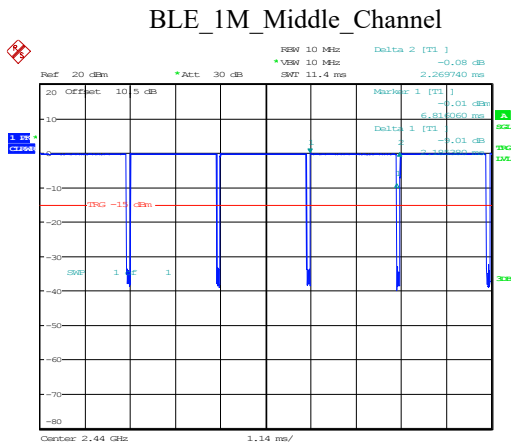
BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle Channel	2.185	2.270	96.26	0.17	458	0.500

BLE 2M

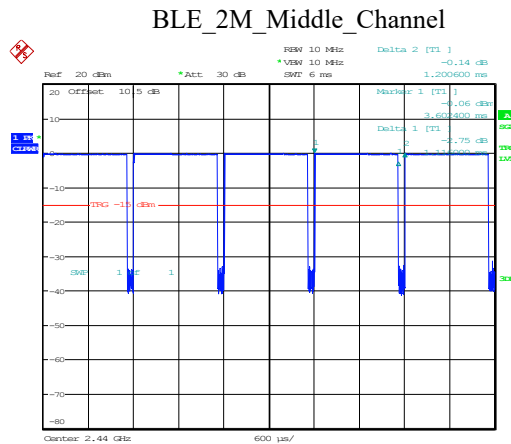
Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle Channel	1.116	1.201	92.92	0.32	896	1

BLE 1M



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Date: 21.AUG.2026 21:30:03

BLE 2M

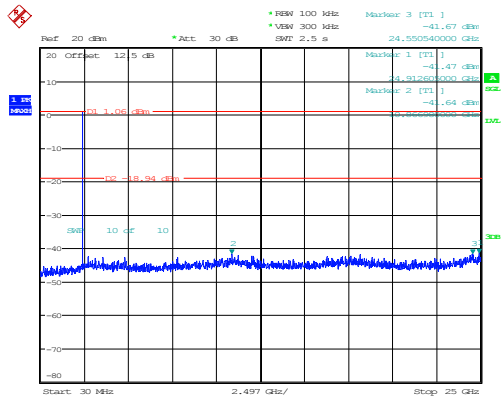


ProjectNo.:2601W73931E-RF Tester:Vern Shen
Date: 21.AUG.2026 21:30:51

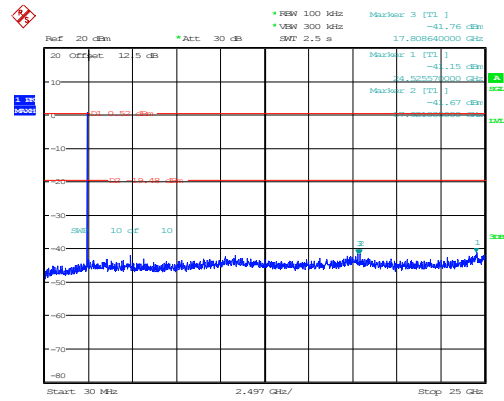
Conducted Spurious Emission

BLE 1M

BLE_1M_Low_Channel

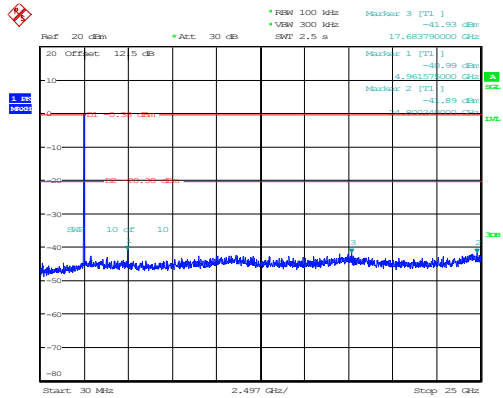


BLE_1M_Middle_Channel

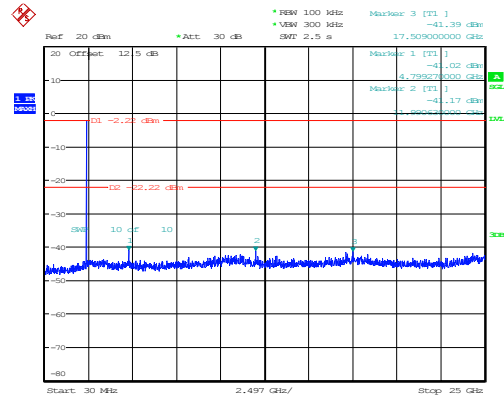


BLE 2M

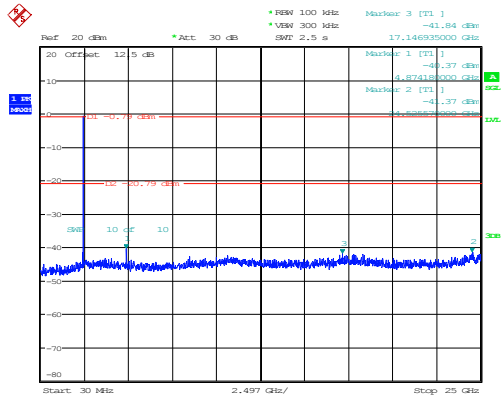
BLE_1M_High_Channel



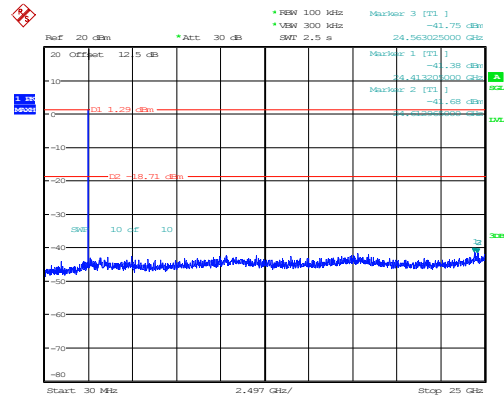
BLE_2M_Low_Channel



BLE_2M_Middle_Channel



BLE_2M_High_Channel



EUT PHOTOGRAPHS

Please refer to the attachment 2601W73931E-RF-EXP External photo and 2601W73931E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601W73931E-RF-TSP Test Setup photo.

******* END OF REPORT *******