



Test Report

Date : 2026-06-12
No. : HMD26050002

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Applicant : ANDON HEALTH CO., LTD.
No. 3 Jinping Street, YaAn Road, Nankai District, Tianjin 300190, China

Supplier / Manufacturer : ANDON HEALTH CO., LTD.
No. 3 Jinping Street, YaAn Road, Nankai District, Tianjin 300190, China

Description of Sample(s) : Submitted sample(s) said to be
Product: WIRELESS BLOOD PRESSURE MONITOR
Brand Name: Andon
Model No.: KD-5811BT
FCC ID: ZRY5811BT-02

Date Samples Received : 2026-05-18

Date Tested : 2026-05-18 to 2026-05-22

Investigation Requested : Perform Electro Magnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10:2020 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15, Subpart C. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : Bluetooth DTS (GFSK)

Test by : Susu


Dr. CHAN Kwok Hung, Brian
Authorized Signatory





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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: WIRELESS BLOOD PRESSURE MONITOR
Manufacturer: ANDON HEALTH CO., LTD.
No. 3 Jinping Street, YaAn Road, Nankai District, Tianjin 300190, China
Brand Name: Andon
Model Number: KD-5811BT
Rating: BATTERIES: 4x1.5Vd.c. (SIZE AA)
5.0Vd.c. by AC adapter

The AC/DC adapter was provided by the Manufacturer as auxiliary accessories with following details:

Brand name: UE; Model no.: UE05LU4-050100SPA
Input: 100-240Va.c. 50/60Hz 0.2A; Output: 5.0Vd.c. 1.0A, 5.0W

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Wireless Blood Pressure Monitor. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was digital transmission Modulation.

1.3 Date of Order

2026-05-14

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2026-05-18 to 2026-05-22

1.6 Country of Origin

China

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1.7 RF Module Details

Module Model Number: N/A
Module FCC ID: N/A
Module Transmission Type: Bluetooth 5.3 BLE
Modulation: GFSK
Data Rates: 1Mbps
Frequency Range: 2400-2483.5MHz
Carrier Frequencies: 2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

1.8 Antenna Details

Antenna Type: PCB antenna
Antenna Gain: 2.1dBi

1.9 Channel List

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

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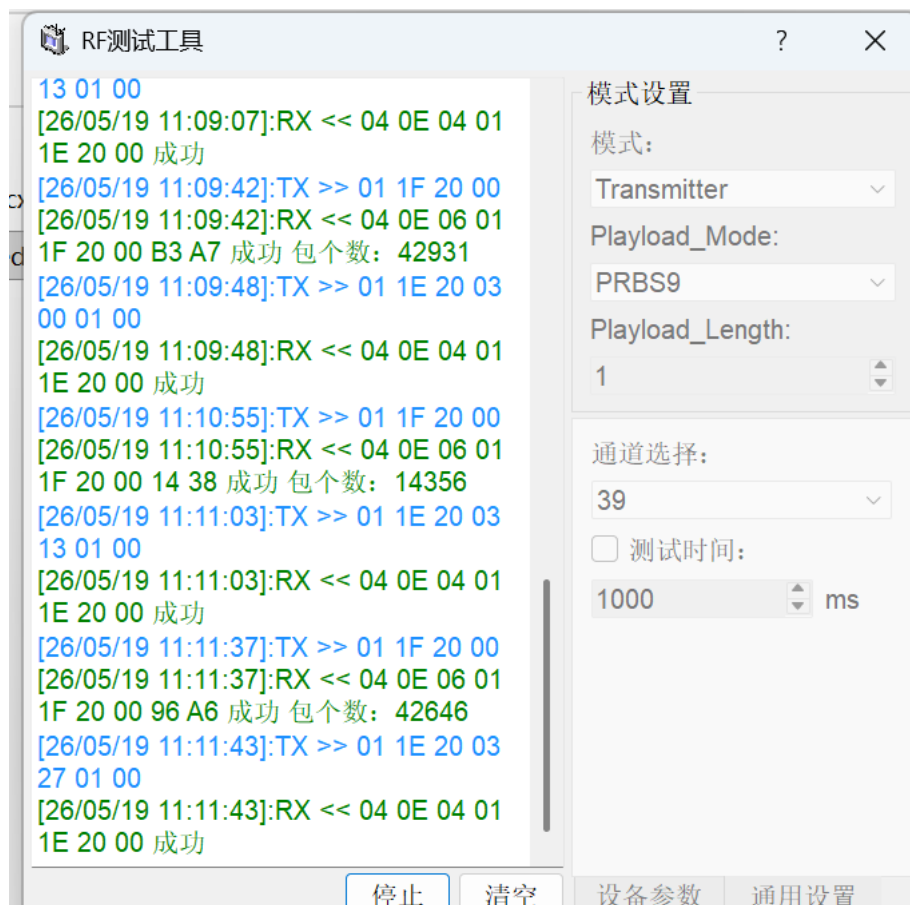
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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10:2020 for FCC Certification.
The device was realized by test software, and there is no power set.



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2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2020	N/A	☒	☐	☐
Radiated Spurious Emissions	FCC 47CFR 15.209 FCC 47CFR 15.205	ANSI C63.10: 2020	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2020	N/A	☒	☐	☐
Conducted Spurious Emissions	FCC 47CFR 15.247(d)	ANSI C63.10: 2020	N/A	☒	☐	☐
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10: 2020	N/A	☒	☐	☐
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2020	N/A	☒	☐	☐
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2020	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	ANSI C63.10: 2020
Test Date:	2026-05-20
Mode of Operation:	Bluetooth DTS Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

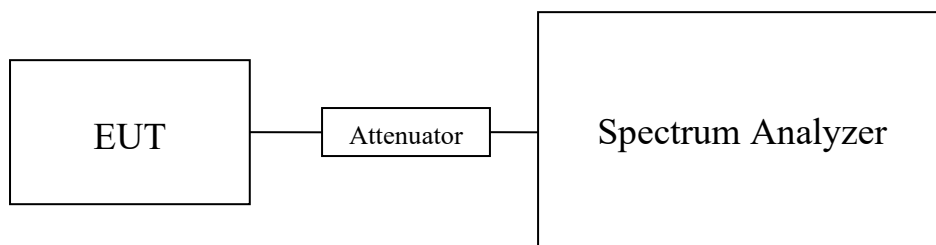
Test Method:

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Spectrum Analyzer Setting:

RBW = 3 MHz,
VBW= 10 MHz,
Sweep = Auto,
Span = 10 MHz
Detector = Peak,
Trace = Max. hold

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.



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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of BT DTS Tx Mode (2402MHz to 2480MHz): Pass (TX Unit) (GFSK 1Mbps)					
Channel	Frequency(MHz)	Conducted power(dBm)	Antenna Gain(dBi)	E.I.R.P(dBm)	E.I.R.P (Watt)
0	2402	-3.90	2.1	-1.80	0.000661
19	2440	-4.03	2.1	-1.93	0.000641
39	2480	-3.82	2.1	-1.72	0.000673

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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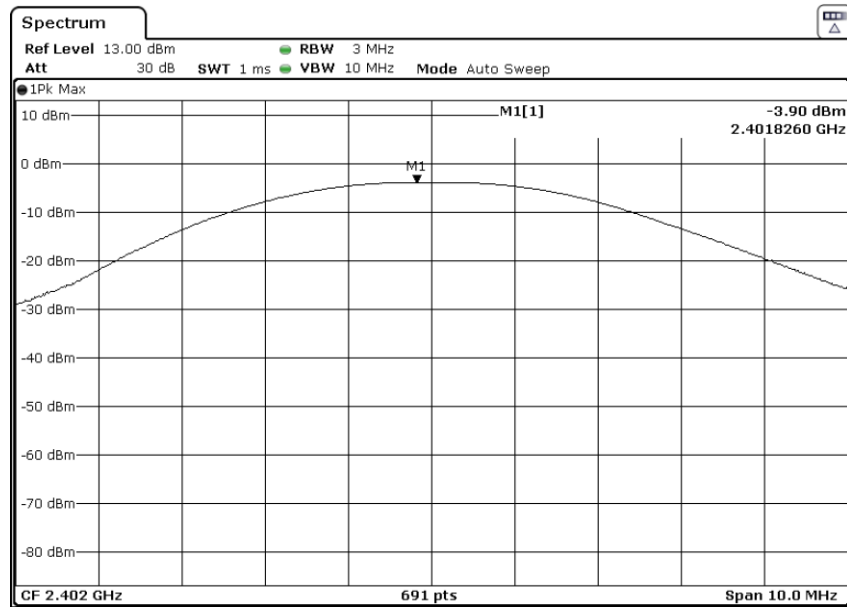
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Test plot of Maximum Peak Conducted Output Power :

Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2402MHz)



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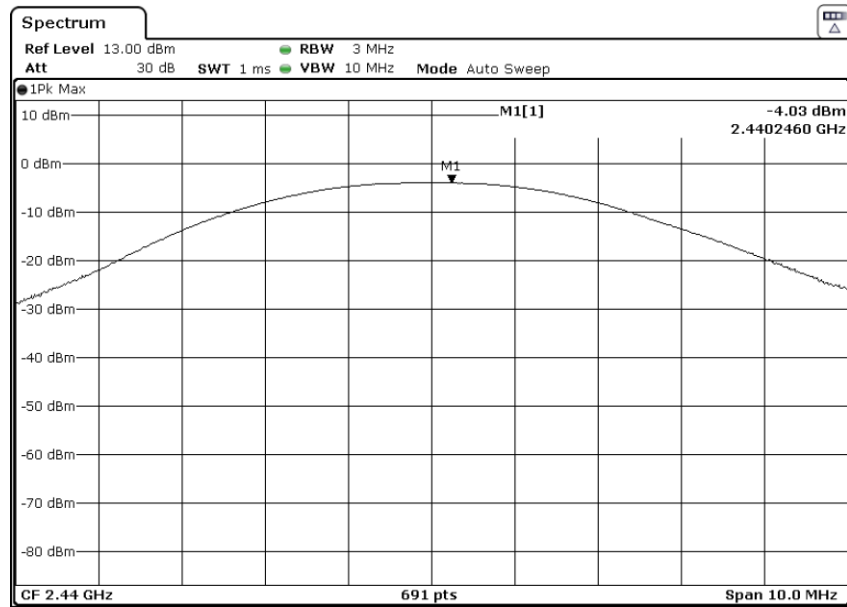
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Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2440MHz)



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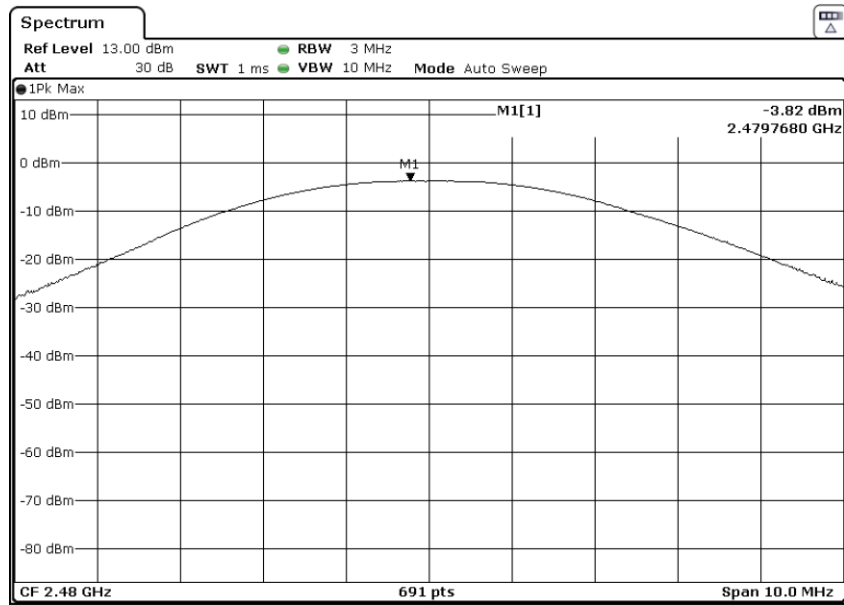
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Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2480MHz)



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3.1.2 Radiated Emissions

Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2020
Test Date:	2026-05-15 to 2026-05-18
Mode of Operation:	Tx mode / Bluetooth Communication mode (GFSK)

Ambient Temperature: 25°C Relative Humidity: 50% Atmospheric Pressure: 101 kPa

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

- * Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with
Registration Number: HK0001
Test Firm Registration Number: 367672

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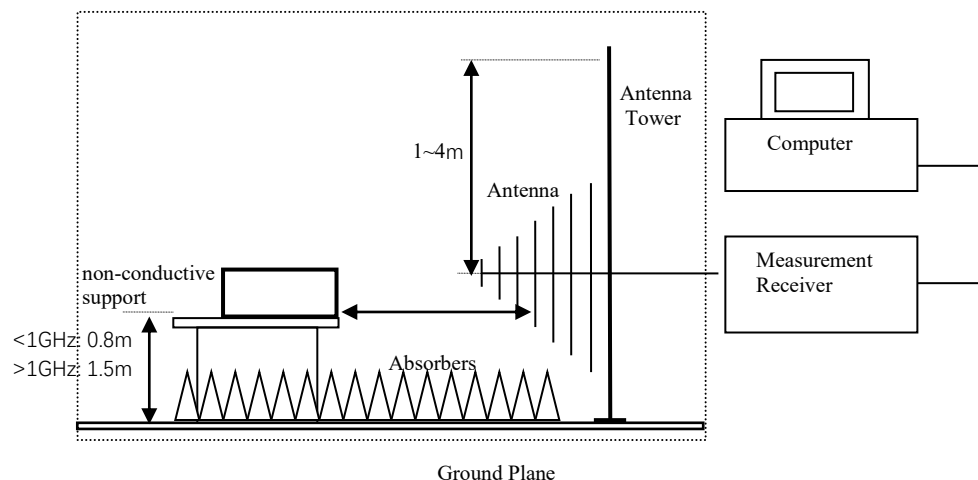
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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: 10kHz VBW: 30kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
30MHz – 1GHz (QP)	RBW: 120kHz VBW: 120kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Pk)	RBW: 1MHz VBW: 1MHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Av)	RBW: 1MHz VBW: 10Hz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB
(30MHz -1GHz): 4.9dB
(1GHz -6GHz): 4.02dB
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Result of Tx mode (2402.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2402.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
4804.0	59.6	0.8	60.4	74.0	13.6	Vertical
4804.0	58.9	0.5	59.4	74.0	14.6	Horizontal
7206.0	52.3	7.0	59.3	74.0	14.7	Vertical
7206.0	51.6	6.5	58.1	74.0	15.9	Horizontal
9608.0	47.1	8.5	55.6	74.0	18.4	Vertical
9608.0	48.4	8.3	56.7	74.0	17.3	Horizontal
12010.0	45.1	10.9	56.0	74.0	18.0	Vertical
12010.0	45.1	10.8	55.9	74.0	18.1	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
4804.0	42.3	0.8	43.2	54.0	10.8	Vertical
4804.0	43.0	0.5	43.6	54.0	10.4	Horizontal
7206.0	36.3	7.0	43.3	54.0	10.7	Vertical
7206.0	36.7	6.5	43.2	54.0	10.8	Horizontal
9608.0	32.7	8.5	41.2	54.0	12.8	Vertical
9608.0	33.1	8.3	41.4	54.0	12.6	Horizontal
12010.0	31.0	10.9	41.9	54.0	12.1	Vertical
12010.0	30.0	10.8	40.8	54.0	13.2	Horizontal

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Result of Tx mode (2440.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2440.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dB	E-Field Polarity
4880.0	58.4	0.8	59.3	74.0	14.8	Vertical
4880.0	58.3	0.5	58.8	74.0	15.2	Horizontal
7320.0	52.6	7.0	59.6	74.0	14.4	Vertical
7320.0	51.5	6.5	58.0	74.0	16.0	Horizontal
9760.0	48.3	8.5	56.8	74.0	17.2	Vertical
9760.0	47.8	8.3	56.1	74.0	17.9	Horizontal
12200.0	45.3	10.9	56.2	74.0	17.8	Vertical
12200.0	45.0	10.8	55.8	74.0	18.2	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dB	E-Field Polarity
4880.0	42.7	0.8	43.5	54.0	10.5	Vertical
4880.0	43.1	0.5	43.6	54.0	10.4	Horizontal
7320.0	35.9	7.0	42.9	54.0	11.1	Vertical
7320.0	36.0	6.5	42.5	54.0	11.5	Horizontal
9760.0	33.0	8.5	41.5	54.0	12.5	Vertical
9760.0	33.5	8.3	41.8	54.0	12.2	Horizontal
12200.0	31.7	10.9	42.6	54.0	11.4	Vertical
12200.0	30.3	10.8	41.1	54.0	12.9	Horizontal

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Result of Tx mode (2480.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2480.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
4960.0	58.0	0.8	58.8	74.0	15.2	Vertical
4960.0	58.3	0.5	58.8	74.0	15.2	Horizontal
7440.0	52.6	7.0	59.6	74.0	14.4	Vertical
7440.0	53.8	6.5	60.3	74.0	13.7	Horizontal
9920.0	47.9	8.5	56.4	74.0	17.6	Vertical
9920.0	48.0	8.3	56.3	74.0	17.7	Horizontal
12400.0	45.0	10.9	55.9	74.0	18.1	Vertical
12400.0	45.5	10.8	56.3	74.0	17.7	Horizontal

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
4960.0	42.0	0.8	42.8	54.0	11.2	Vertical
4960.0	43.2	0.5	43.7	54.0	10.3	Horizontal
7440.0	35.5	7.0	42.5	54.0	11.5	Vertical
7440.0	36.7	6.5	43.2	54.0	10.8	Horizontal
9920.0	34.0	8.5	42.5	54.0	11.5	Vertical
9920.0	33.4	8.3	41.7	54.0	12.3	Horizontal
12400.0	31.6	10.9	42.5	54.0	11.5	Vertical
12400.0	32.0	10.8	42.8	54.0	11.2	Horizontal

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Radiated Emissions Measurement:

Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Result: RF Radiated Emissions (Lowest)-GFSK 1Mbps

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2390.0	47.3	-4.8	42.5	74.0	31.5	Vertical
2390.0	47.0	-4.7	42.3	74.0	31.7	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2390.0	42.0	-4.8	37.2	54.0	16.8	Vertical
2390.0	42.3	-4.7	37.6	54.0	16.4	Horizontal

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Result: RF Radiated Emissions (Highest) -GFSK 1Mbps

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	62.1	-4.8	57.3	74.0	16.7	Vertical
2483.5	62.0	-4.7	57.3	74.0	16.7	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	45.4	-4.8	40.6	54.0	13.4	Vertical
2483.5	45.7	-4.7	41.0	54.0	13.0	Horizontal

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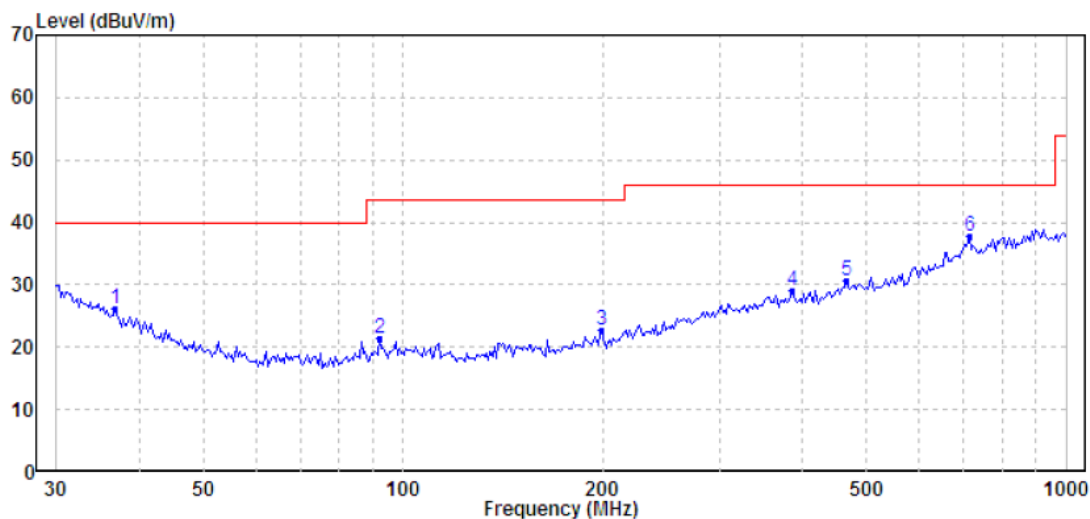
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Results of Bluetooth mode (2402.0 MHz) (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)

Horizontal



Ambient Temperature: 25.1 °C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	36.766	26.12	40.00	-13.88	QP	Horizontal
2	92.139	21.41	43.50	-22.09	QP	Horizontal
3	199.286	22.81	43.50	-20.69	QP	Horizontal
4	385.281	28.97	46.00	-17.03	QP	Horizontal
5	465.599	30.64	46.00	-15.36	QP	Horizontal
6	714.173	37.65	46.00	-8.35	QP	Horizontal

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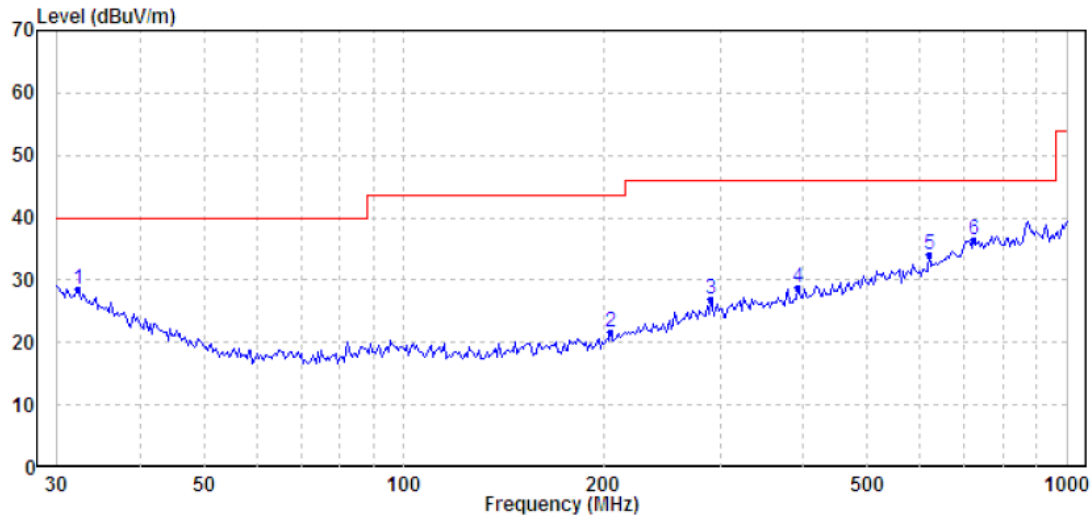
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Results of Bluetooth mode (2402.0 MHz) (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)

Vertical



Ambient Temperature: 25.1 °C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	32.179	28.46	40.00	-11.54	QP	Vertical
2	204.955	21.61	43.50	-21.89	QP	Vertical
3	291.036	26.99	46.00	-19.01	QP	Vertical
4	393.472	28.87	46.00	-17.13	QP	Vertical
5	620.710	34.14	46.00	-11.86	QP	Vertical
6	724.261	36.57	46.00	-9.43	QP	Vertical

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2020
Test Date:	2026-05-20
Mode of Operation:	TX mode
Test Voltage:	120Va.c. 60Hz

Ambient Temperature: 25°C	Relative Humidity: 51%	Atmospheric Pressure: 101 kPa
---------------------------	------------------------	-------------------------------

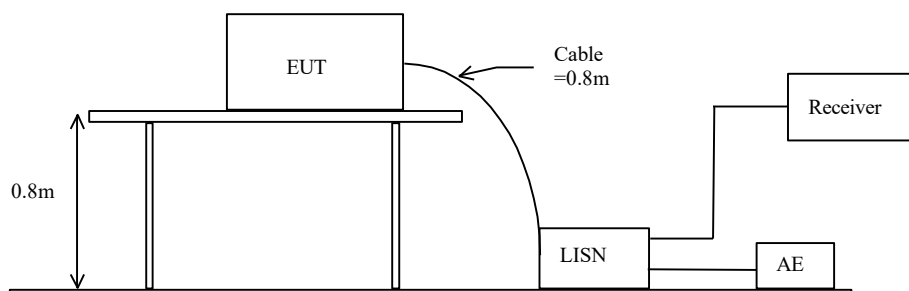
Test Method:

The test was performed in accordance with ANSI C63.10:2020, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
 Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-*- Emission(s) that is far below the corresponding limit line.

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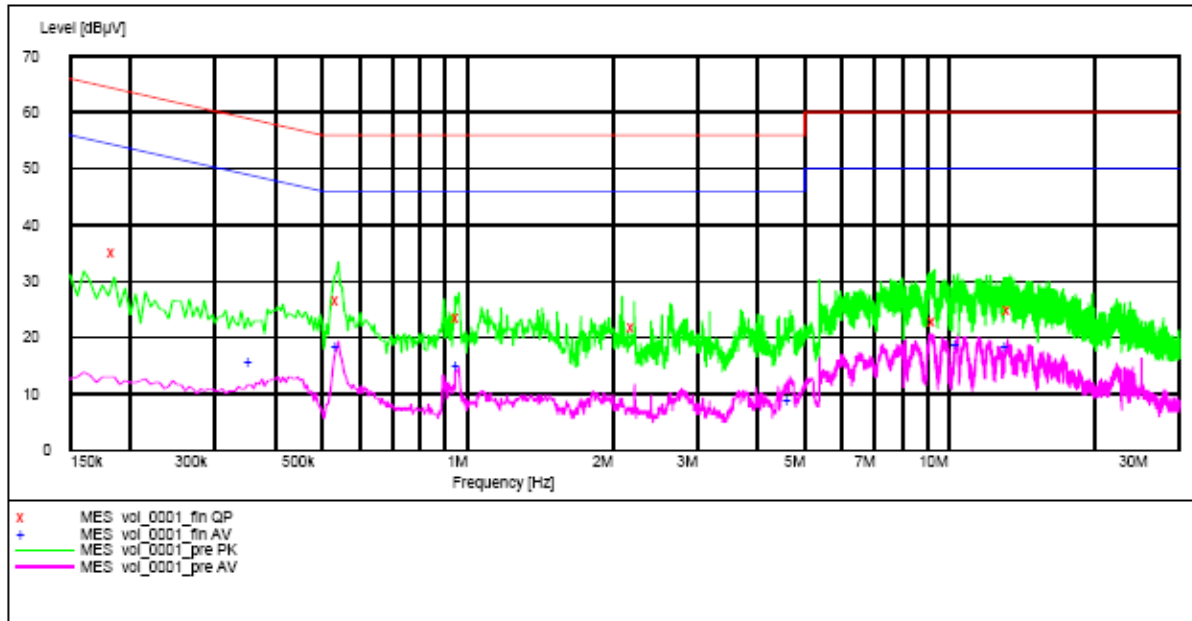
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Results of Bluetooth mode (L): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.185000	35.20	9.6	64	29.1	L1	GND
0.540000	26.60	9.6	56	29.4	L1	GND
0.960000	23.60	9.7	56	32.4	L1	GND
2.220000	21.70	9.7	56	34.3	L1	GND
9.335000	22.90	9.9	60	37.1	L1	GND
13.360000	25.00	10.1	60	35.0	L1	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.355000	15.70	9.6	49	33.1	L1	GND
0.540000	18.50	9.6	46	27.5	L1	GND
0.960000	14.90	9.7	46	31.1	L1	GND
4.670000	8.90	9.7	46	37.1	L1	GND
10.430000	18.80	9.9	50	31.2	L1	GND
13.210000	18.40	10.1	50	31.6	L1	GND

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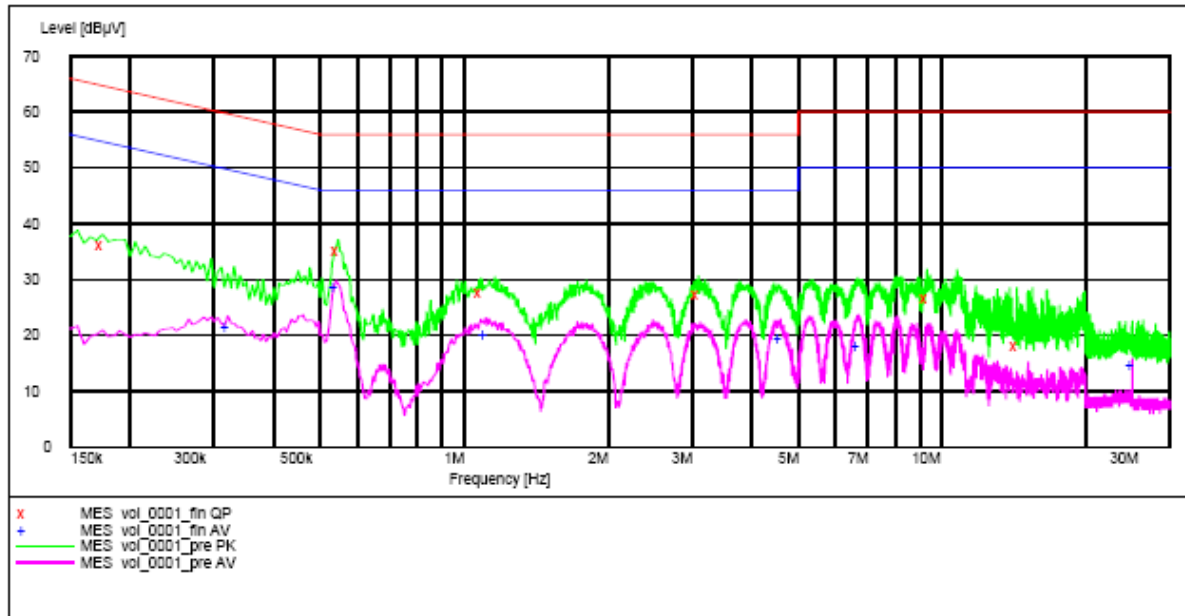
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Results of Bluetooth mode (N): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175000	36.10	9.6	65	28.7	N	GND
0.545000	35.20	9.6	56	20.8	N	GND
1.085000	27.60	9.7	56	28.4	N	GND
3.090000	27.10	9.7	56	28.9	N	GND
9.300000	26.50	9.9	60	33.5	N	GND
14.340000	18.20	10.2	60	41.8	N	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.320000	21.40	9.6	50	28.3	N	GND
0.540000	28.70	9.6	46	17.3	N	GND
1.110000	20.10	9.7	46	25.9	N	GND
4.590000	19.50	9.7	46	26.5	N	GND
6.700000	18.20	9.8	50	31.8	N	GND
25.060000	14.50	10.6	50	35.5	N	GND

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3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2020
Test Date: 2026-05-20
Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz, VBW= 10KHz, Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple, Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of Tx Mode GFSK 1Mbps (Tx:2402MHz to 2480MHz) : Pass (Tx Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402.0	-18.96	8dBm
2440.0	-19.17	8dBm
2480.0	-18.68	8dBm

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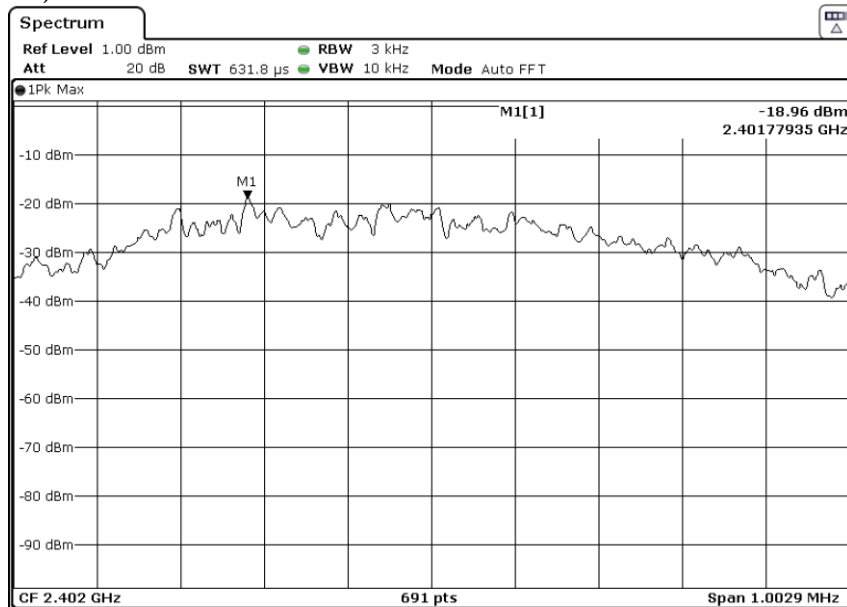


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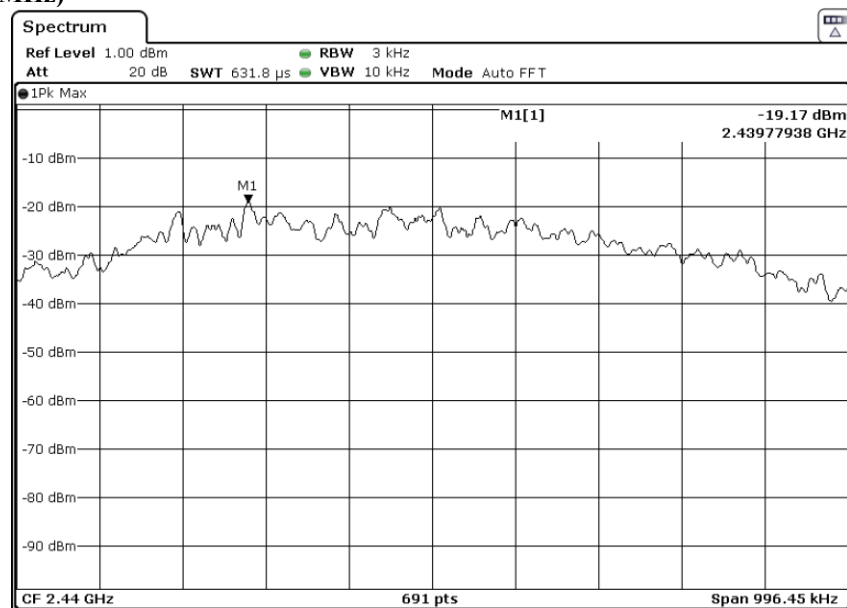
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Tx mode GFSK 1Mbps (Tx: 2402MHz to 2480MHz)
CH 0 (2402.0 MHz)



CH 19 (2440.0 MHz)



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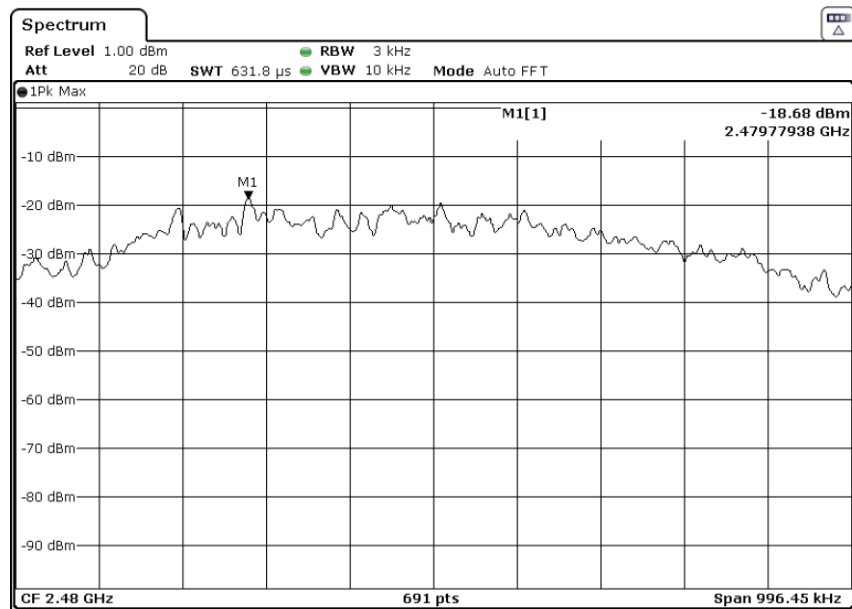
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CH 39 (2480.0 MHz)



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3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2020
Test Date: 2026-05-20
Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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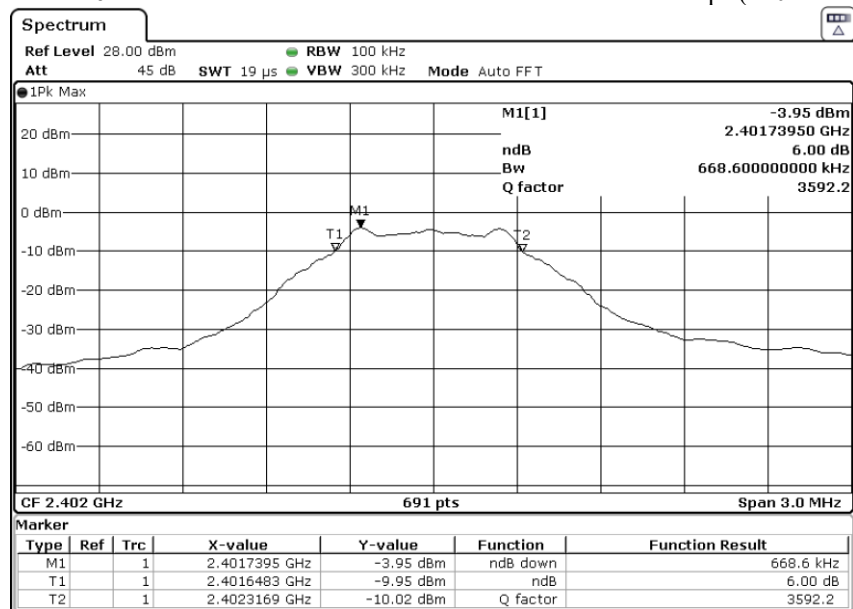
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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2402.0	668.6	> 500

6dB Bandwidth of Fundamental Emission on GFSK 1Mbps (2402MHz)



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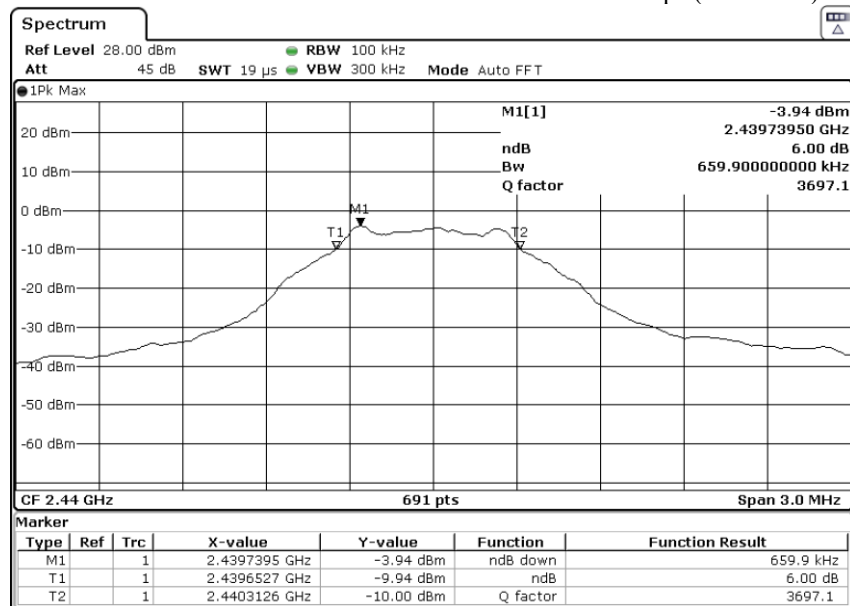
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2440.0	659.9	> 500

6dB Bandwidth of Fundamental Emission on GFSK 1Mbps (2440MHz)



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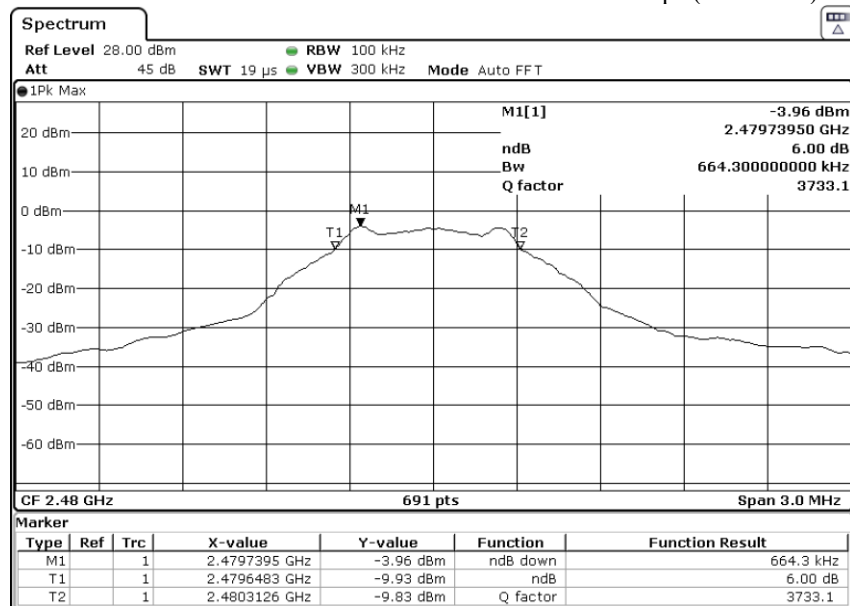
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2480.0	664.3	> 500

6dB Bandwidth of Fundamental Emission on GFSK 1Mbps (2480MHz)



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3.1.6 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247
Test Method: ANSI C63.10:2020
Test Date: 2026-05-20
Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.

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Band-edge Compliance of RF Conducted Emissions Measurement:

Limit :

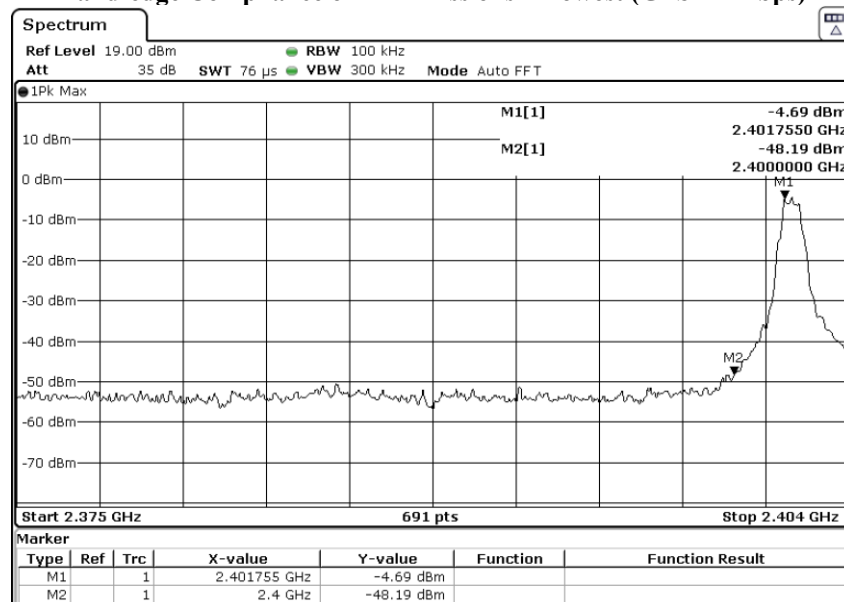
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2402)	-4.69	-24.69	-48.19	PASS

Band-edge Compliance of RF Emissions – Lowest (GFSK 1Mbps)



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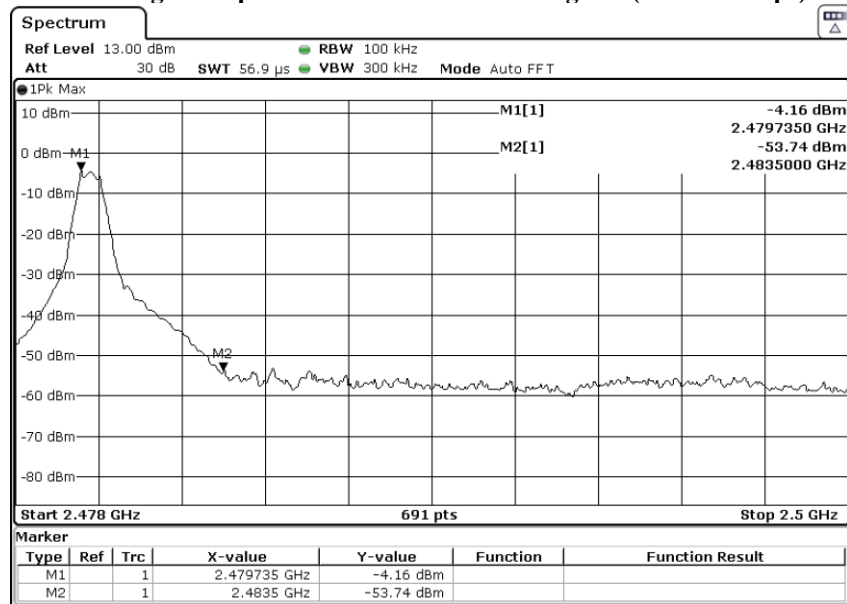
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 - Highest Fundamental (2480)	-4.16	-24.16	-53.74	PASS

Band-edge Compliance of RF Emissions – Highest (GFSK 1Mbps)



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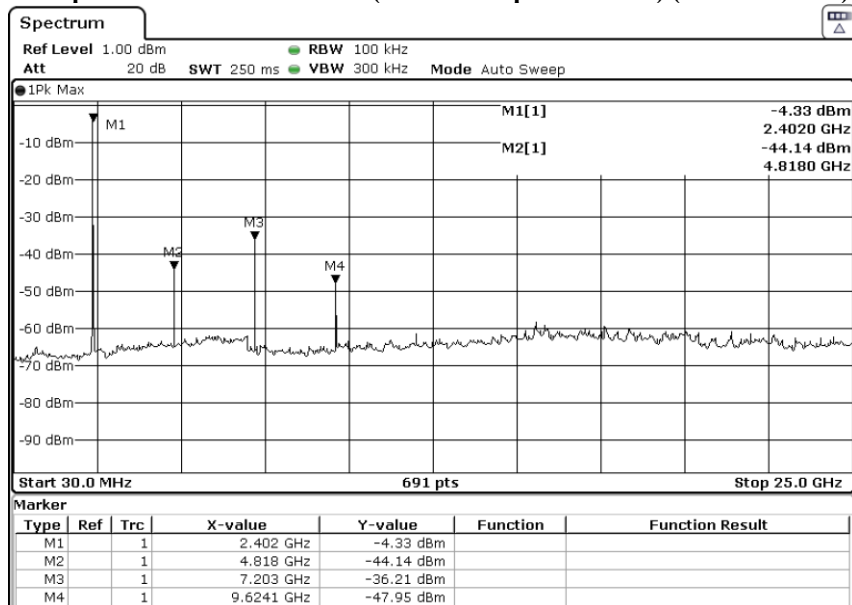
Compliance of RF Emissions Measurement:

Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Compliance of RF Emissions – (GFSK 1Mbps 2402MHz) (the worst case)



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3.1.7 Antenna Requirement

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

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.

Test Results:

This is PCB antenna. There is no external antenna, the antenna gain = 2.1dBi. User is unable to remove or changed the Antenna.

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2024-04-18	2029-04-18
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM293	SPECTRUM ANALYZER	AGILENT TECHNOLOGIES	N9020A	MY50510152	2024-11-07	2026-11-07
EM363	SIGNAL ANALYZER(10HZ-40GHZ)	R & S	FSV40	101231	2026-01-15	2028-01-15
EM299	BROADBAND HORN ANTENNA	ETS-LINDGREN	3115	00114120	2025-07-08	2028-07-08
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2025-07-14	2027-07-14
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2025-07-14	2027-07-14
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2025-02-12	2027-02-12
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2025-01-02	2027-01-02
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2023-08-02	2026-08-02

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM232	LISN	SCHAFFNER	NNB41	04/100082	2025-03-20	2027-03-20
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	2026-04-22	2027-04-22
EM179	IMPULSE LIMITER	R & S	ESH3-Z2	357.8810.52/54	2025-03-17	2027-03-17
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2022-02-06	2027-02-06
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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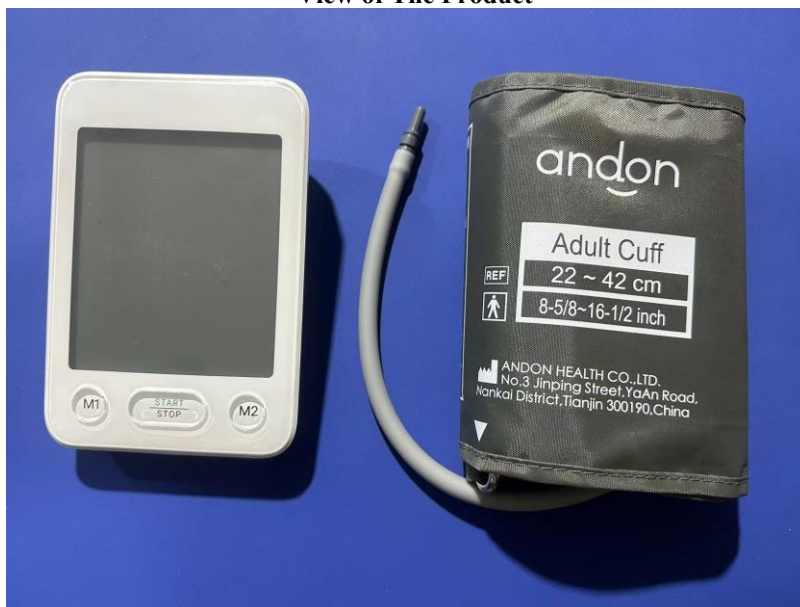
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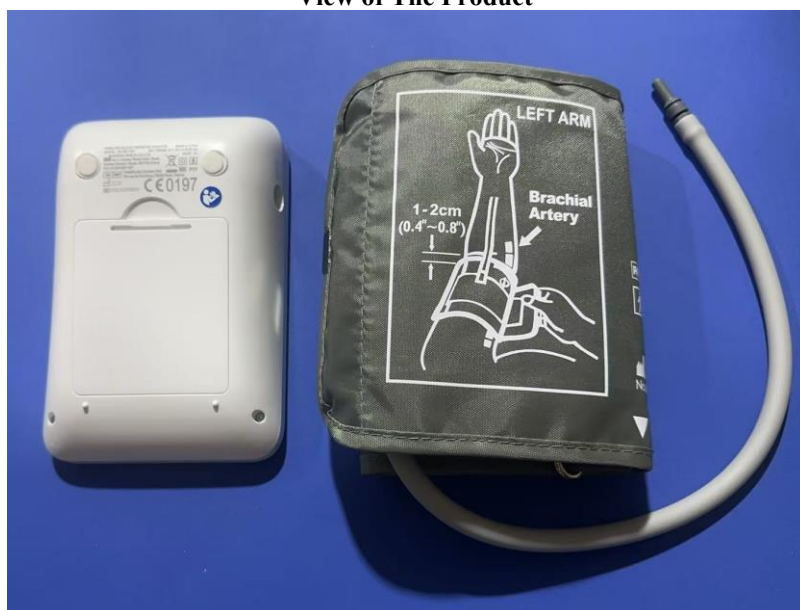
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Appendix B Photograph (S) Of Product

View of The Product



View of The Product



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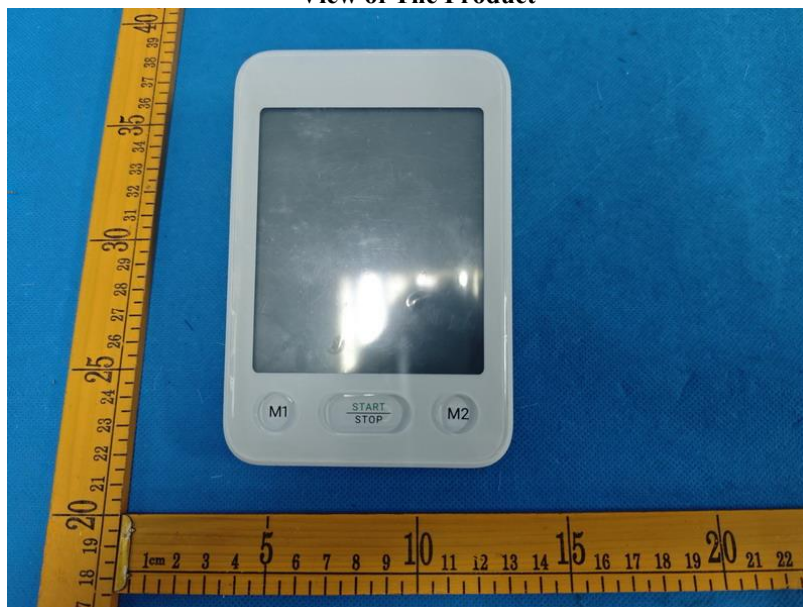
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Appendix B Photograph (S) Of Product

View of The Product



View of The Product



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Photographs of EUT

Inside View of the product



Inside View of the product



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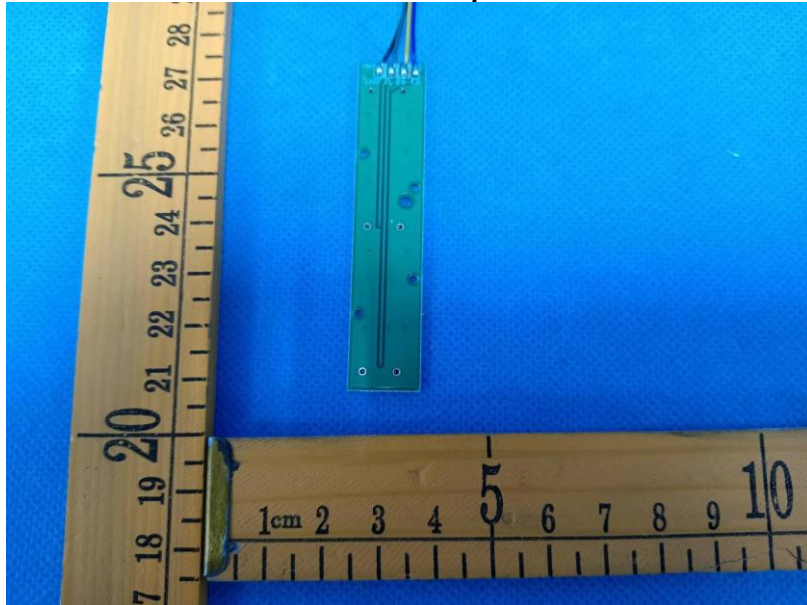
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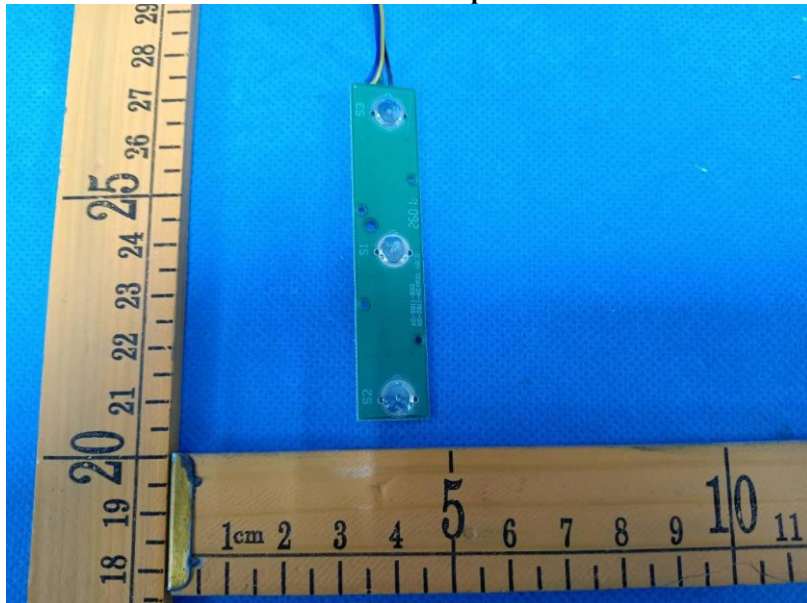
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Photograph (S) Of Product

Inside View of the product



Inside View of the product



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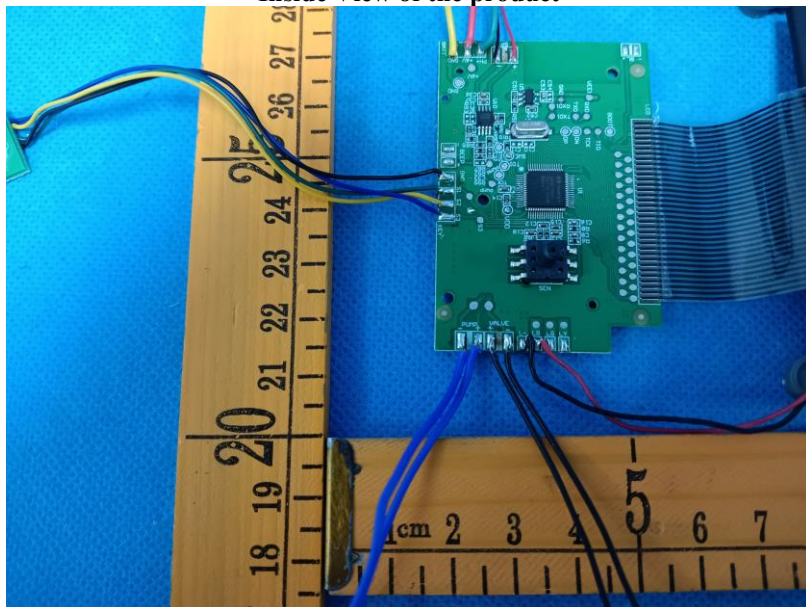
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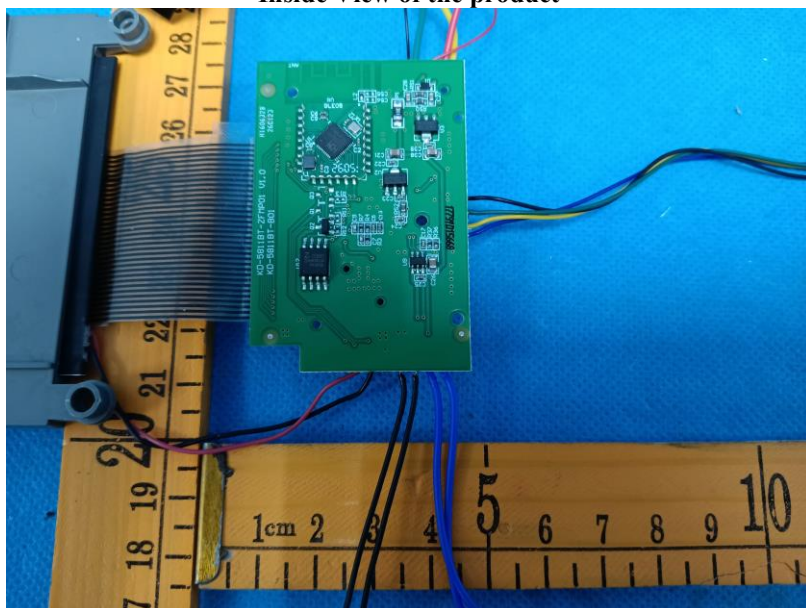
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Photograph (S) Of Product

Inside View of the product



Inside View of the product



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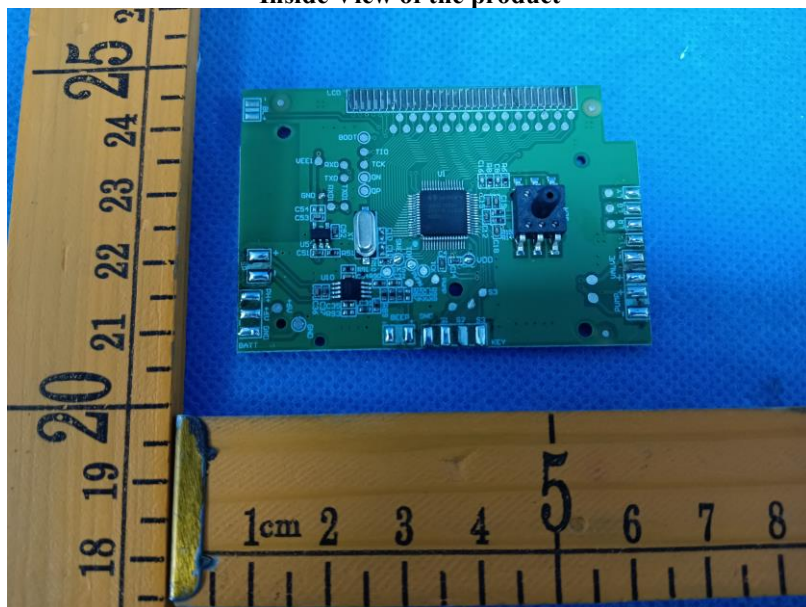
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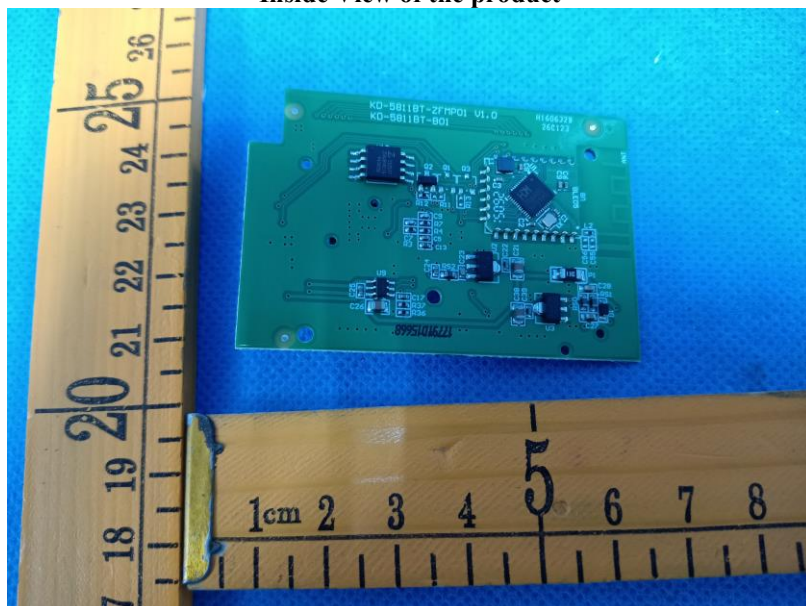
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Photograph (S) Of Product

Inside View of the product



Inside View of the product



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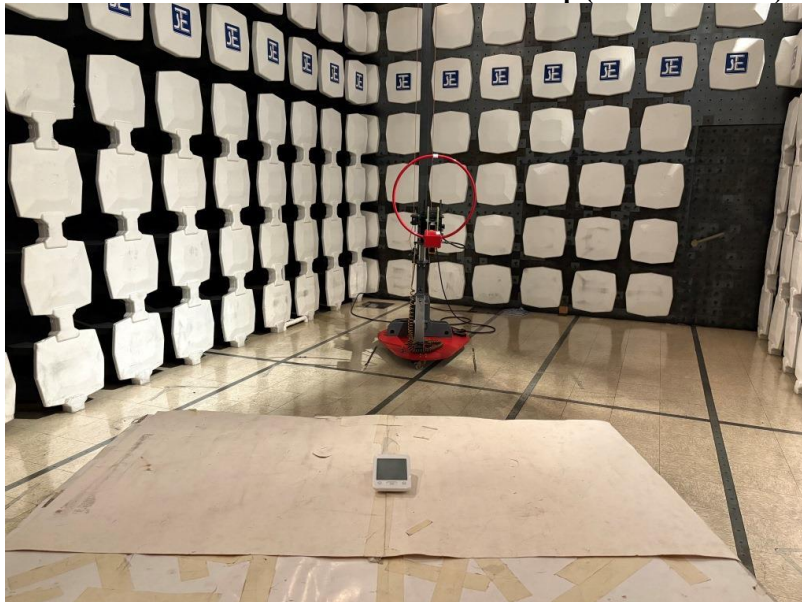
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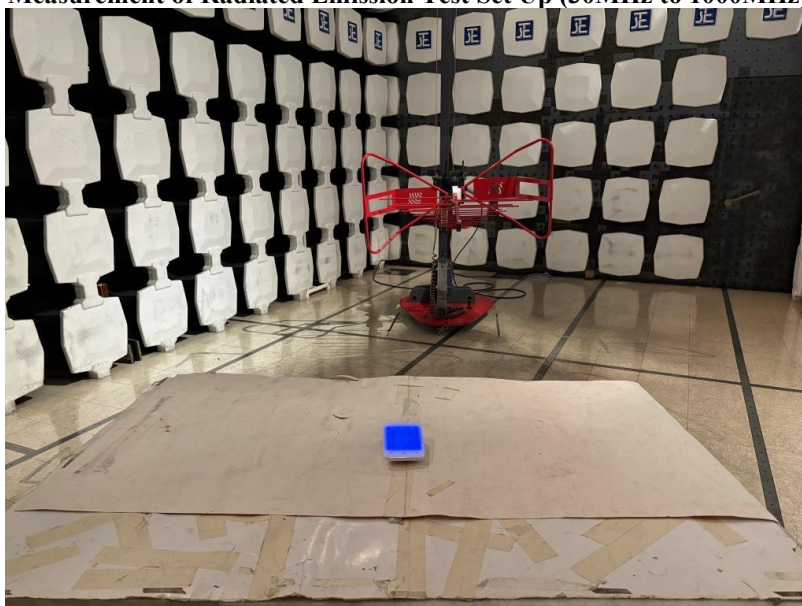
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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz to 30MHz)



Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)



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Photographs of EUT

Measurement of Radiated Emission Test Set Up (Above 1000MHz)



Measurement of Conducted Emission Test Set Up



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