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Report No.: 2506TWA401-U2
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Issue Date: 2025-10-07

MEASUREMENT REPORT

FCC ID : II7-MEDIX24V3
APPLICANT : Tangent Computer Incorporated
Application Type : Certification
Product : Medical All-in-One PC
Model No. : Medix 24 v3
Trademark : tangent
FCC Classification : (DXX) Part 15 Low Power Communication Device Transmitter
FCC Rule Part(s) : Part 15.225
Test Procedure(s) : ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Received Date : June 2, 2025
Test Date : July 8, 2025~ July 23, 2025

Tested By : Kaunaz Lee
(Kaunaz Lee)

Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)



The test results only relate to the tested sample.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2506TWA401-U2	1.0	Original Report	2025-10-07	

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General Information

Applicant	Tangent Computer Incorporated
Applicant Address	191 Airport Blvd. Burlingame, 94010, California, United States of America
Manufacturer	Tangent Computer Incorporated
Manufacturer Address	191 Airport Blvd. Burlingame, 94010, California, United States of America
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
MRT IC Registration No.	21723
Test Device Serial No.	#1-1 ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

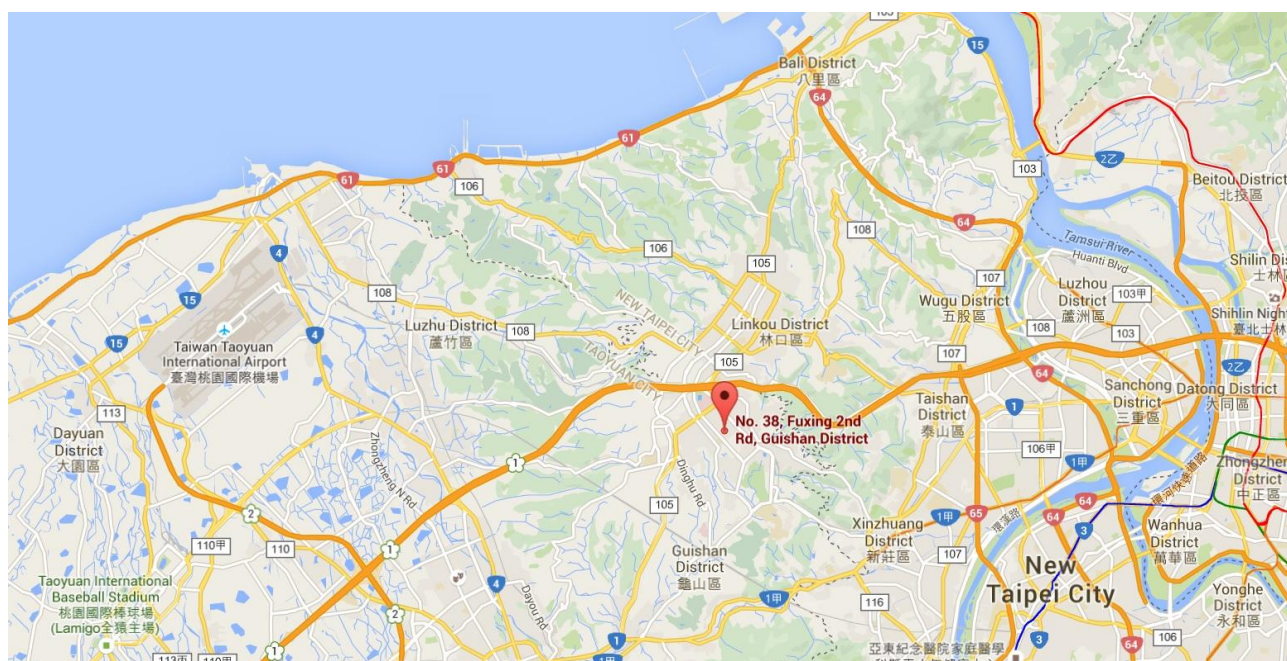
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Medical All-in-One PC
Model No.	Medix 24 v3
RFID Specification	NFC 13.56MHz
Modulation	ASK
Antenna Type	PCB Loop Antenna
Accessory	
Power Adapter#1	Brand Name: FSP Model: FSP090-RBBM1 Input: AC 100-240V, 1.5~0.6A, 50-60Hz Output: DC 19V=4.74A, 90W DC Cable Out Non-Shielding, 1.5m with Core*1
Power Adapter#2	Brand Name: ADAPTER TECH. Model: ATM090T-P190 Input: AC 100-240V, 1.2~0.5A, 50-60Hz Output: DC 19V=4.74A, 90W DC Cable Out Non-Shielding, 1.5m with Core*1

2.2. Test Mode

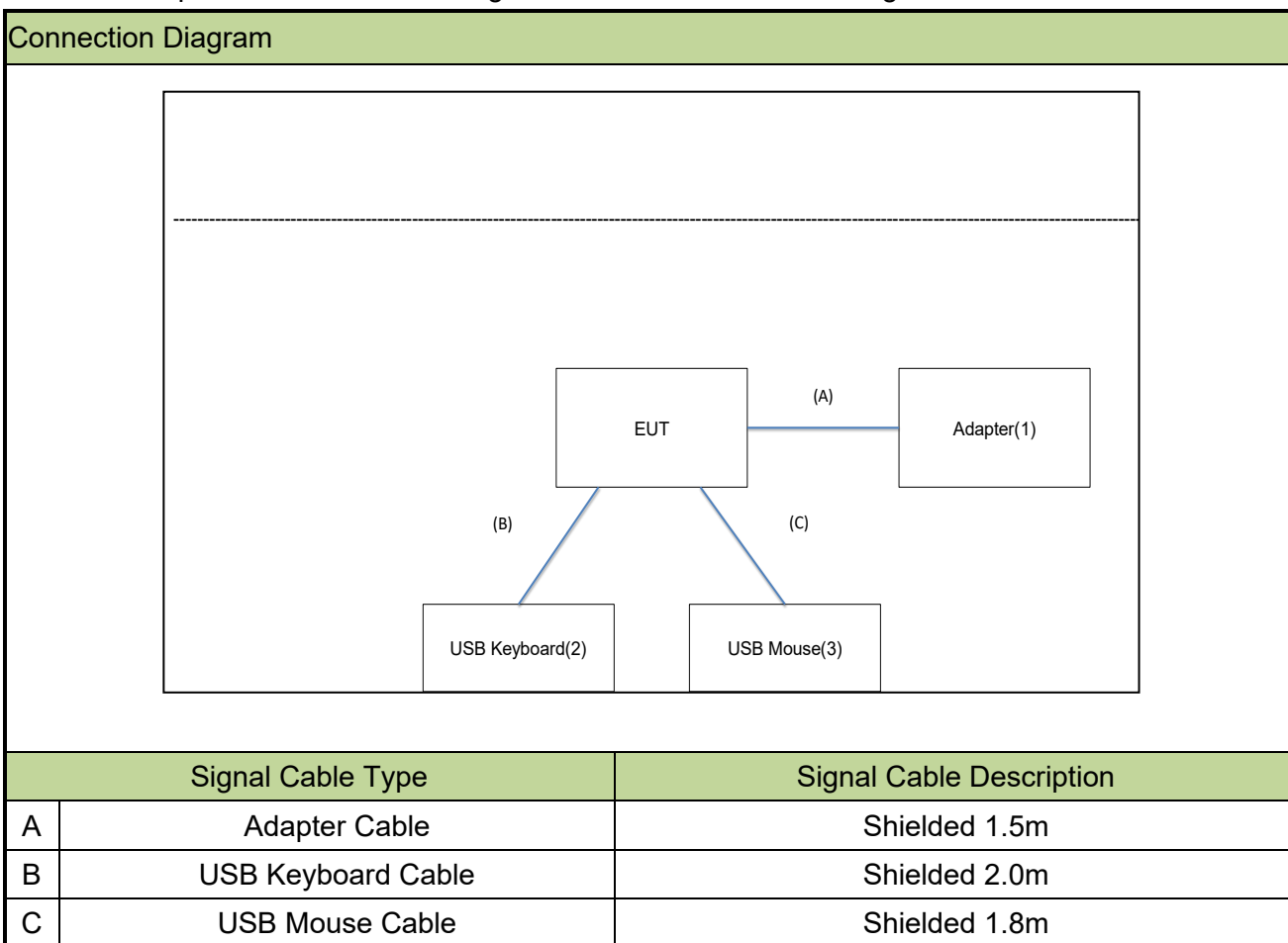
Test Mode	Mode 1: Transmit by NFC
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2.3. Test Software

N/A.

2.4. Test Configuration

The **Medical All-in-One PC**, ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.



2.5. Test System Details

The types for all equipment, and descriptions of all cables used in the tested system (including inserted cards) are:

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Adapter	FSP	FSP090-RBBM1	N/A	Non-shielded, 1.7m
2	USB Keyboard	Lenovo	KU-0225	N/A	N/A
3	USB Mouse	Lenovo	M-U0025-O	N/A	N/A

2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.7. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2020) were used in the measurement of the **Medical All-in-One PC**.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2020.

Line conducted emissions test results are shown in Section 7.6.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

Radiated Emissions test results are shown in Section 7.2 & 7.3 .

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of **Medical All-in-One PC** is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Medical All-in-One PC** unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2026/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2026/4/14
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2026/5/13

Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2026/4/16
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2025/11/5
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2026/3/4
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/9/20

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emission- Power Line
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
Conducted Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 1.3\text{dB}$
Radiated Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz~30MHz: $\pm 3.92\text{dB}$ 30MHz~1GHz: $\pm 4.25\text{dB}$ 1GHz~18GHz: $\pm 4.40\text{dB}$ 18GHz~40GHz: $\pm 4.45\text{dB}$

7. TEST RESULT

7.1. Summary

Product Name: Medical All-in-One PC

FCC Classification: (DXX) Part 15 Low Power Communication Device Transmitter

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.225 (a)(b)(c)	Field Strength of Fundamental Emissions	FCC 15.225	Radiated	Pass	Section 7.2
15.225(d)	Radiated Spurious Emissions	FCC 15.209		Pass	Section 7.3
2.1049	20dB Bandwidth	N/A	Conducted	Pass	Section 7.4
15.225(e)	Frequency Stability	within $\pm 0.01\%$ of the operating frequency		Pass	Section 7.5
15.207	AC Conducted Emissions 150kHz - 30MHz	FCC 15.207	Line Conducted	Pass	Section 7.6

Notes:

- Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. Field Strength of Fundamental Emissions Measurement

7.2.1. Test Limit

FCC Part 15.225 Limits				
Frequency (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 10m	Field Strength (dB $\mu\text{V/m}$) at 3m
1.705 – 13.110	30	29.5	48.58	69.5
13.110 – 13.410	106	40.5	59.98	80.5
13.410 – 13.553	334	50.5	69.58	90.5
13.553 – 13.567	15848	84	103.08	124
13.567 – 13.710	334	50.5	69.58	90.5
13.710 – 14.010	106	40.5	59.98	80.5
14.010 – 30.000	30	29.5	48.58	69.5

7.2.2. Test Procedure used

(A) ANSI C63.10-2020 - Section 11.12.2.3 (quasi-peak measurements)

The specifications for measurements using the CISPR quasi-peak detector can be found in CISPR 16-1-1, As an alternative to CISPR quasi-peak measurement, compliance can be determined for the applicable emission requirements using a peak detector.

(B) ANSI C63.10-2020 - Section 11.12.2.4 (peak power measurements)

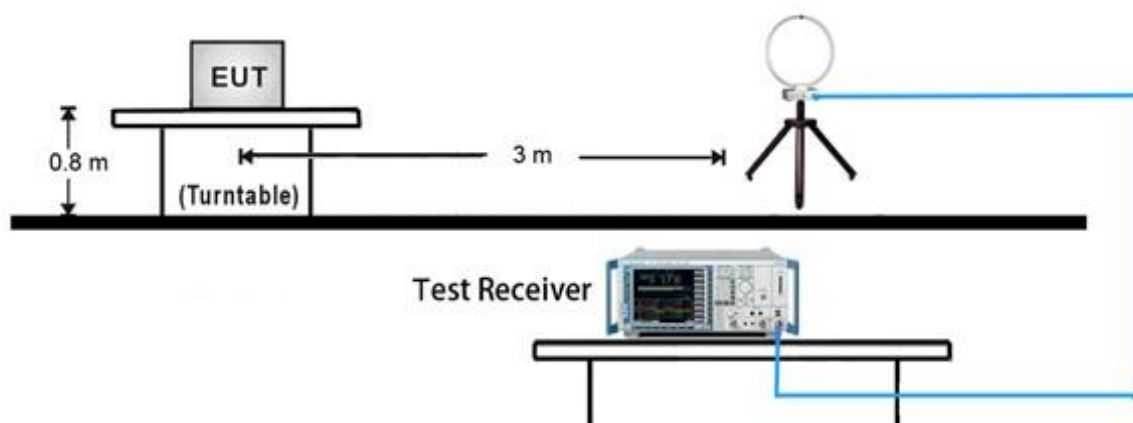
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 kHz ~ 150 kHz	200 Hz ~ 300 Hz
0.15 MHz ~ 30 MHz	9 kHz ~ 10 kHz

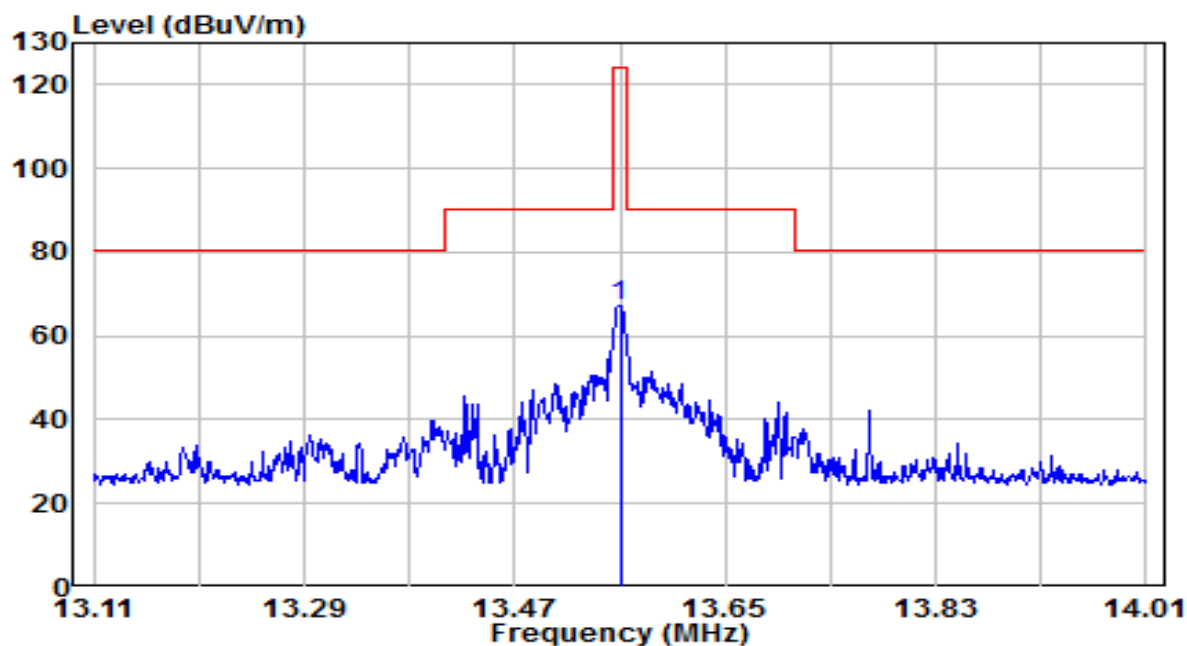
7.2.3. Test Setup

9kHz ~ 30MHz Test Setup:



7.2.4. Test Result

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

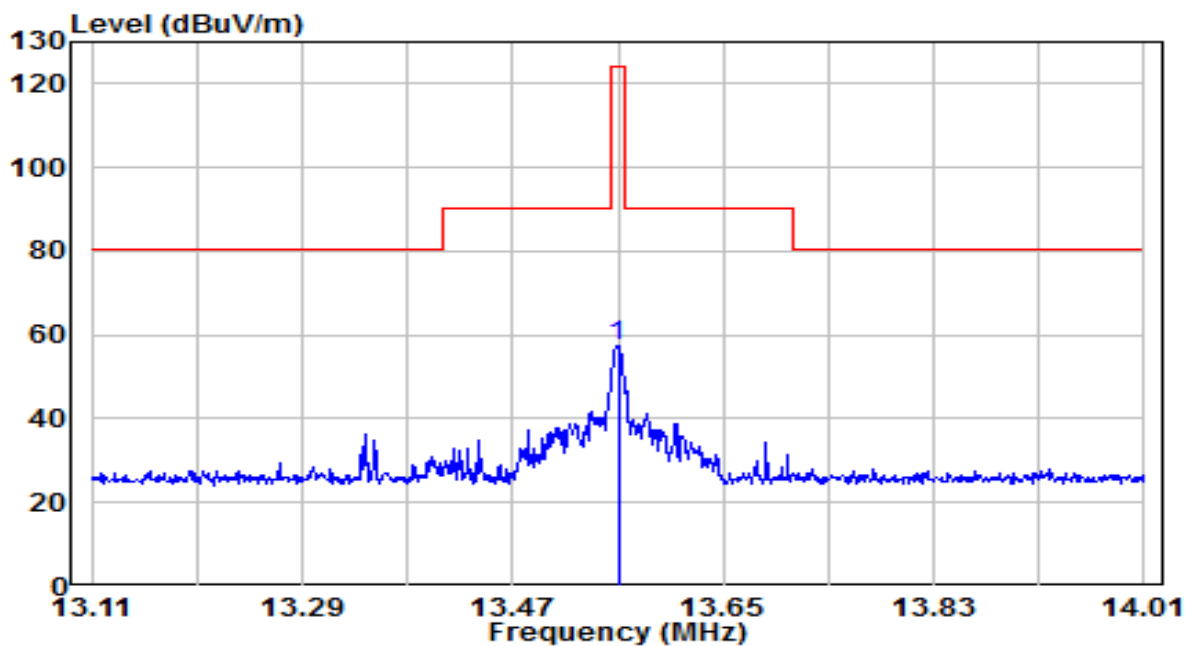


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	13.560	45.93	21.46	67.39	-56.61	124.00	100	53	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	13.560	35.76	21.46	57.22	-66.78	124.00	100	255	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.3. Radiated Spurious Emissions Measurement

7.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.225 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note : The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

7.3.2. Test Procedure Used

(A) ANSI C63.10-2020 - Section 11.12.2.3 (quasi-peak measurements)

The specifications for measurements using the CISPR quasi-peak detector can be found in CISPR 16-1-1. As an alternative to CISPR quasi-peak measurement, compliance can be determined for the applicable emission requirements using a peak detector.

(B) ANSI C63.10-2020 - Section 11.12.2.4 (peak power measurements)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = $3 \times \text{RBW}$
4. Detector = peak
5. Sweep time = auto couple

Table 1 - RBW as a function of frequency

Frequency	RBW
9 kHz ~ 150 kHz	200 Hz ~ 300 Hz
0.15 MHz ~ 30 MHz	9 kHz ~ 10 kHz
30 MHz ~ 1000 MHz	100 kHz ~ 120 kHz
> 1000 MHz	1 MHz

(C) ANSI C63.10-2020 - Section 11.12.2.5 (average power measurements)

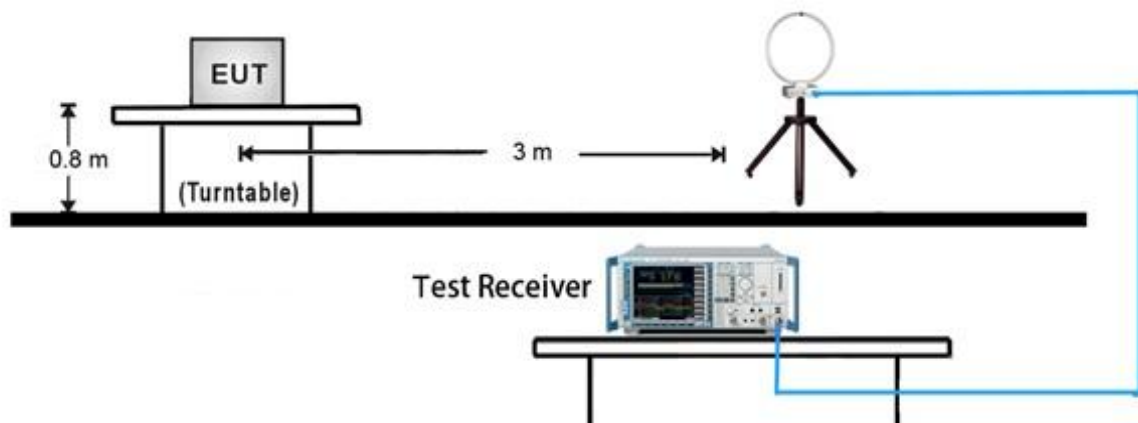
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. Video bandwidth mode or display mode:
 - 1) The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS (power averaging) and setting the average-VBW type to power (rms).
 - 2) As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode to accomplish this. Others have a setting for average-VBW type, which can be set to "voltage" regardless of the display mode. Detector =

Peak

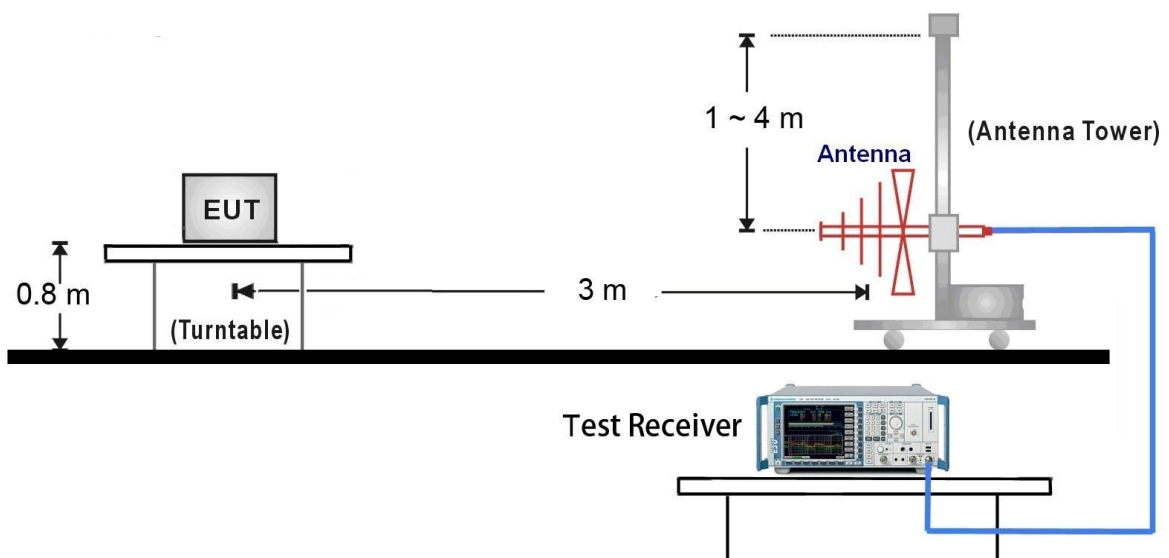
5. Sweep time = auto
6. Trace mode = max hold
7. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.3.3. Test Setup

9kHz ~ 30MHz Test Setup:

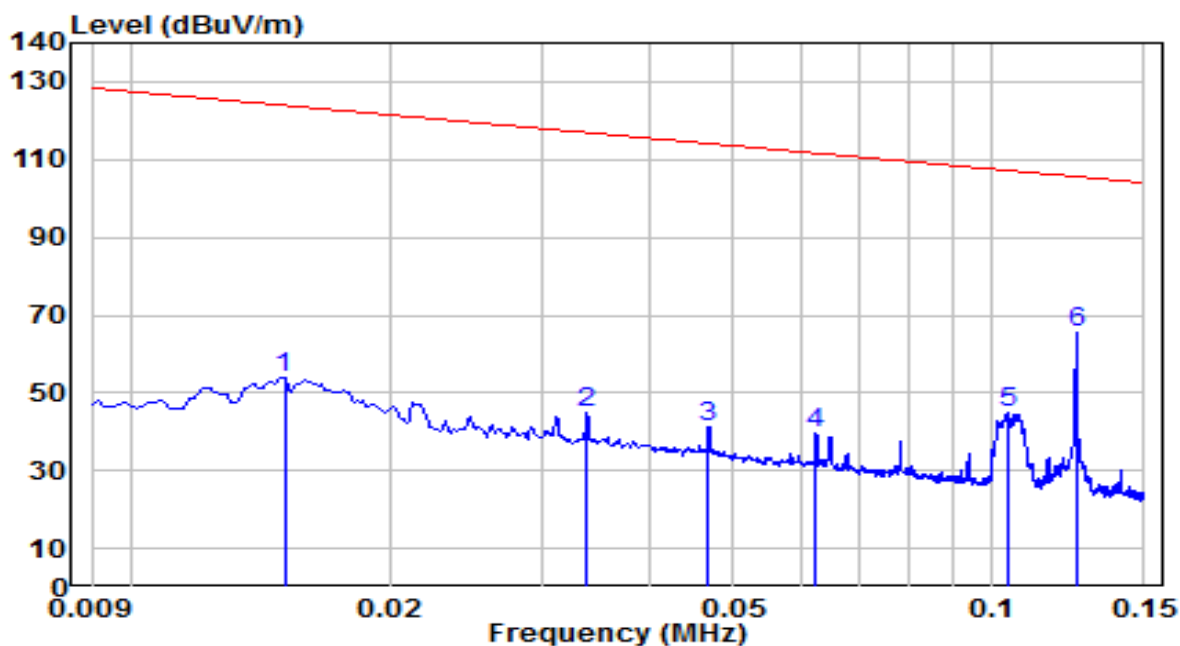


30MHz ~ 1GHz Test Setup:



7.3.4. Test Result

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

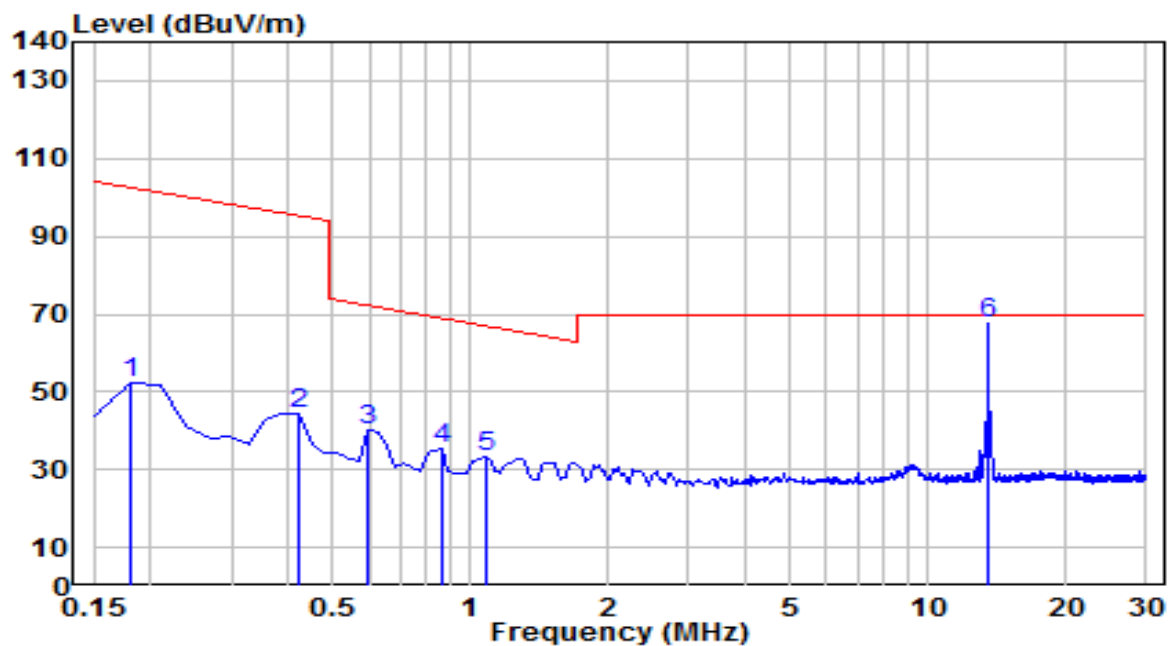


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.015	34.87	18.81	53.68	-70.35	124.03	100	312	Peak
2	0.034	25.12	19.52	44.65	-72.37	117.01	100	285	Peak
3	0.047	22.30	19.14	41.44	-72.76	114.19	100	56	Peak
4	0.062	20.60	18.79	39.40	-72.29	111.69	100	14	Peak
5	* 0.104	27.06	18.05	45.11	-62.15	107.26	100	224	Peak
6	0.125	47.62	18.11	65.73	N/A	N/A	100	359	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. This frequency is 0.125MHz RFID operating frequency.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

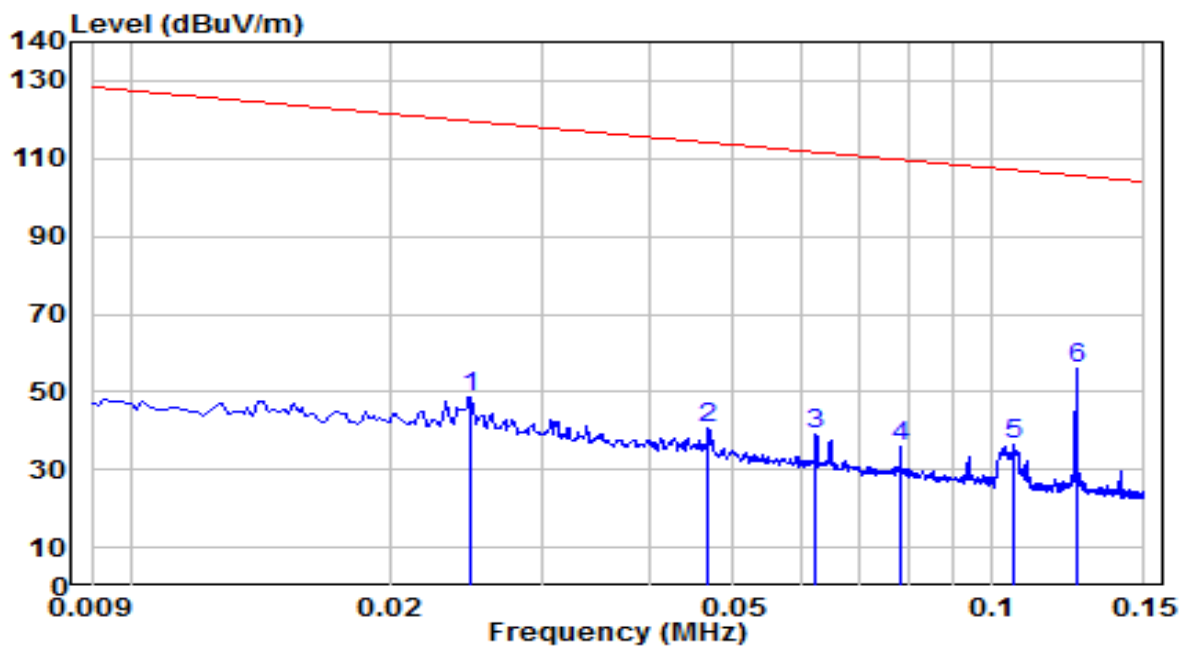


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.180	34.16	18.25	52.42	-50.09	102.50	100	195	Peak
2	0.419	25.87	18.63	44.51	-50.66	95.17	100	312	Peak
3	* 0.598	21.25	18.66	39.92	-32.16	72.08	100	210	Peak
4	0.866	16.59	18.62	35.21	-33.66	68.86	100	206	Peak
5	1.075	14.45	18.60	33.06	-33.94	66.99	100	331	Peak
6	13.553	46.11	21.46	67.57	N/A	N/A	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- This frequency is 13.553MHz RFID operating frequency.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

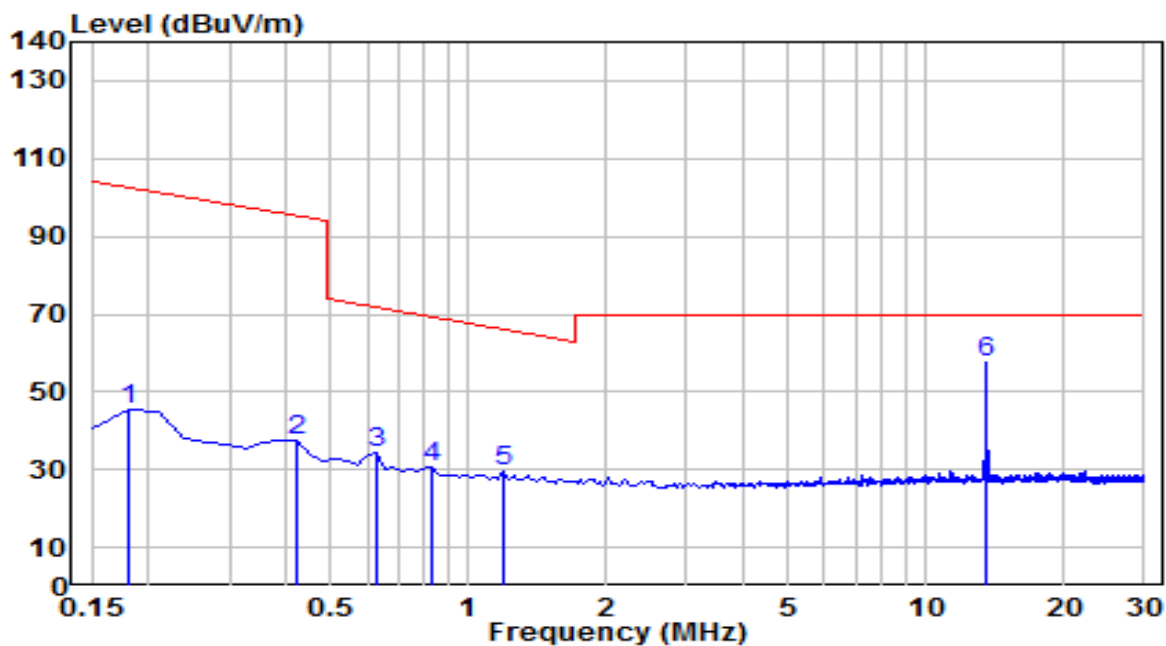


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.025	29.20	19.35	48.55	-71.16	119.70	100	241	Peak
2	0.047	21.48	19.14	40.61	-73.58	114.19	100	172	Peak
3	0.062	20.15	18.79	38.94	-72.74	111.69	100	69	Peak
4	0.078	17.46	18.48	35.94	-73.81	109.75	100	333	Peak
5	* 0.106	18.16	18.06	36.22	-70.88	107.10	100	203	Peak
6	0.125	37.90	18.11	56.00	N/A	N/A	100	357	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- This frequency is 0.125MHz RFID operating frequency.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	FMZB 1519B	Temp. / Humidity	24°C /69%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

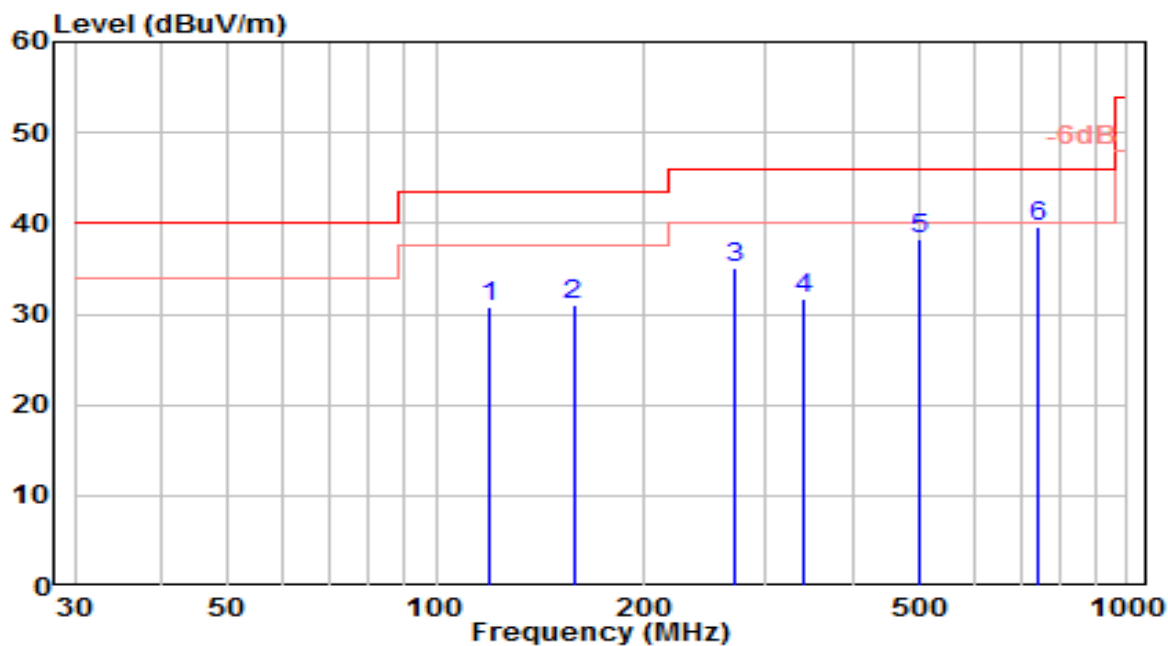


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.180	26.97	18.25	45.22	-57.29	102.50	100	184	Peak
2	0.419	18.74	18.63	37.38	-57.79	95.17	100	210	Peak
3	0.628	15.49	18.66	34.15	-37.50	71.66	100	230	Peak
4	0.837	12.05	18.63	30.67	-38.49	69.17	100	319	Peak
5	* 1.195	10.98	18.61	29.59	-36.49	66.08	100	266	Peak
6	13.553	35.87	21.46	57.33	N/A	N/A	100	352	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- This frequency is 13.553MHz RFID operating frequency.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	VULB 9162	Temp. / Humidity	24°C /69%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz

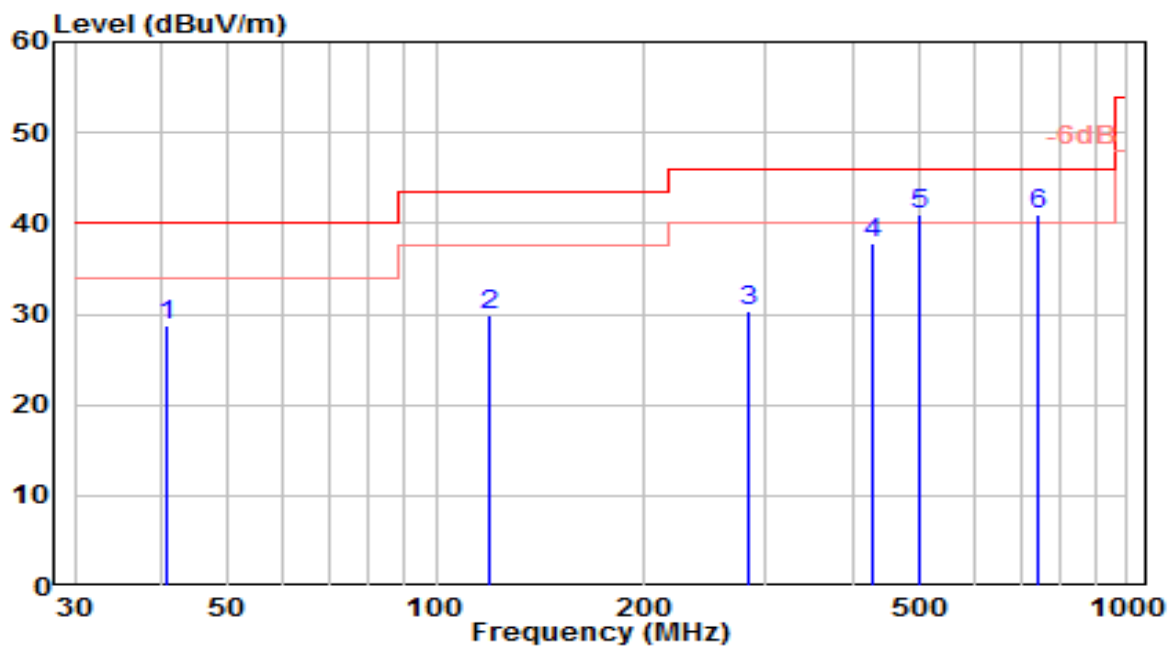


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	119.240	13.32	17.39	30.71	-12.79	43.50	150	95	QP
2	158.040	15.09	15.94	31.04	-12.46	43.50	150	180	QP
3	269.590	14.53	20.48	35.01	-10.99	46.00	100	320	QP
4	341.370	8.97	22.66	31.63	-14.37	46.00	100	265	QP
5	498.510	12.71	25.45	38.16	-7.84	46.00	150	255	QP
6	* 745.860	10.09	29.52	39.61	-6.39	46.00	150	330	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	VULB 9162	Temp. / Humidity	24°C /69%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	TX-NFC 13.56MHz	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	40.670	8.44	20.21	28.65	-11.35	40.00	100	60	QP
2	119.240	12.41	17.39	29.80	-13.70	43.50	100	15	QP
3	284.140	9.54	20.84	30.38	-15.62	46.00	150	245	QP
4	426.730	13.73	24.07	37.80	-8.20	46.00	100	170	QP
5	498.510	15.58	25.45	41.04	-4.96	46.00	100	145	QP
6	* 744.890	11.58	29.50	41.08	-4.92	46.00	150	250	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.4. 20dB Bandwidth Measurement

7.4.1. Test Limit

N/A

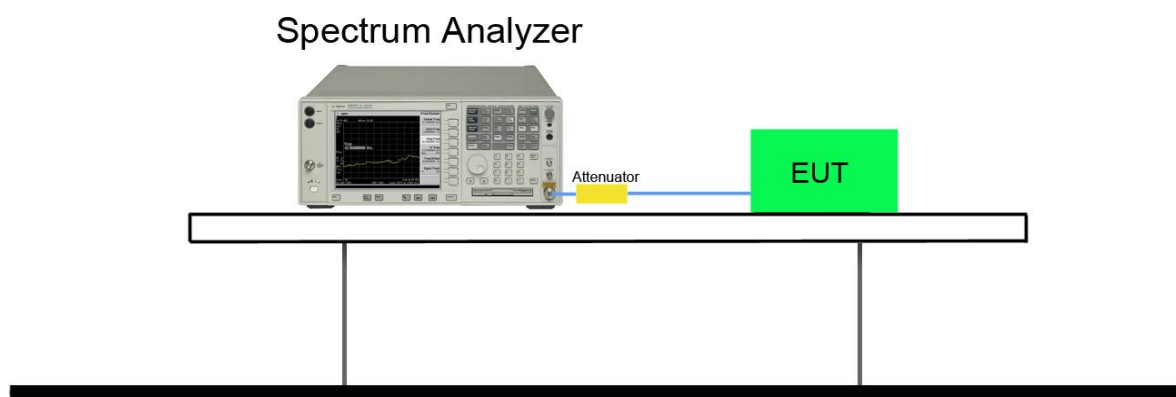
7.4.2. Test Procedure Used

KDB 789033 D02v01r01 – Section C.1

7.4.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 20$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% ~5% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.4.4. Test Setup



7.4.5. Test Result

Test Mode	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
NFC	13.65	0.2468	0.2137



7.5. Frequency Stability Measurement

7.5.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.5.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

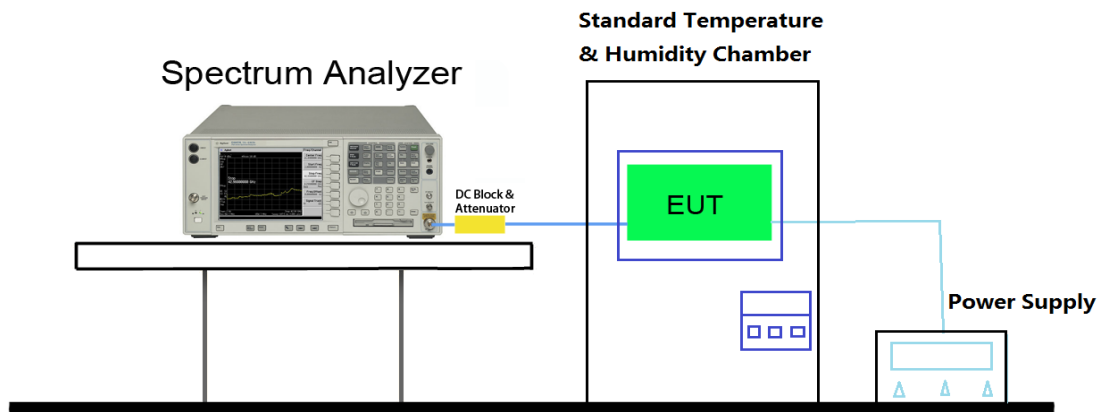
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.5.3. Test Setup



7.5.4. Test Result

Test Engineer	Wen	Temperature	-20 ~ 50°C
Test Time	2025/7/8	Relative Humidity	58%RH

NFC 13.56MHz Frequency Stability					
Temperature vs. Frequency Stability					
Voltage (%)	Power (VAC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	120V/60Hz	- 20	13.5600	0.00	±100
		- 10	13.5600	0.00	±100
		0	13.5600	0.00	±100
		+ 10	13.5599	-7.37	±100
		+ 20 (Ref)	13.5600	0.00	±100
		+ 30	13.5600	0.00	±100
		+ 40	13.5600	0.00	±100
		+ 50	13.5599	-7.37	±100
Test Result		PASS			
Voltage vs. Frequency Stability					
Voltage (%)	Power (VAC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	120V/60Hz	+ 20	13.5600	0.00	±100
115%	138V/60Hz	+ 20	13.5600	0.00	±100
85%	102V/60Hz	+ 20	13.5600	0.00	±100
Test Result		PASS			

Note:

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) – Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.6. AC Conducted Emissions Measurement

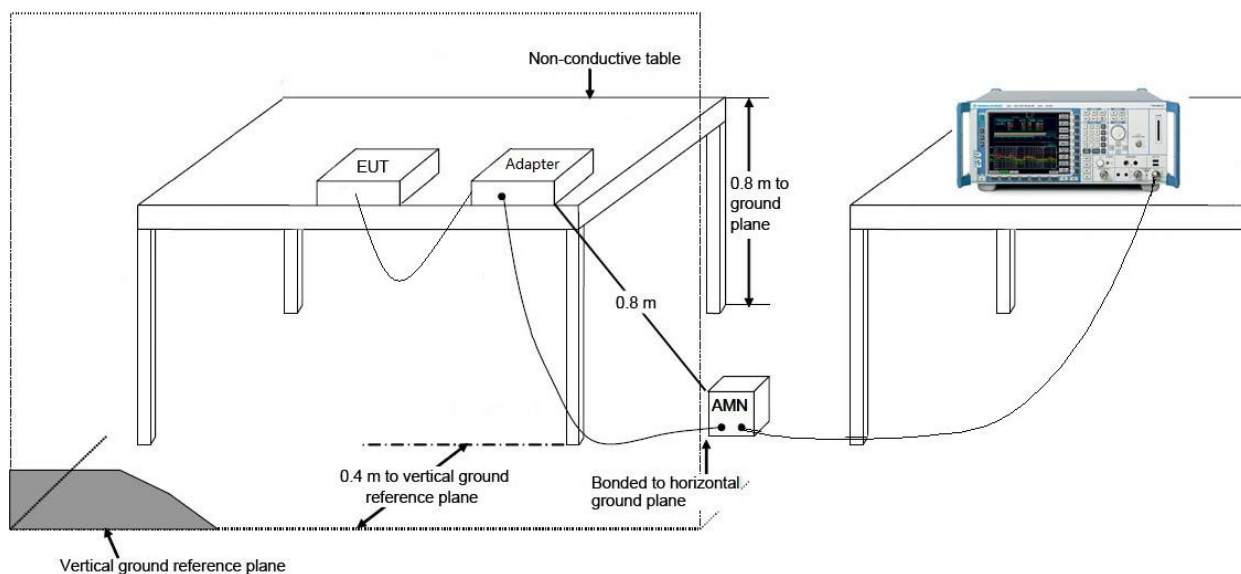
7.6.1. Test Limit

FCC Part 15 Subpart C & IC RSS-GEN Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

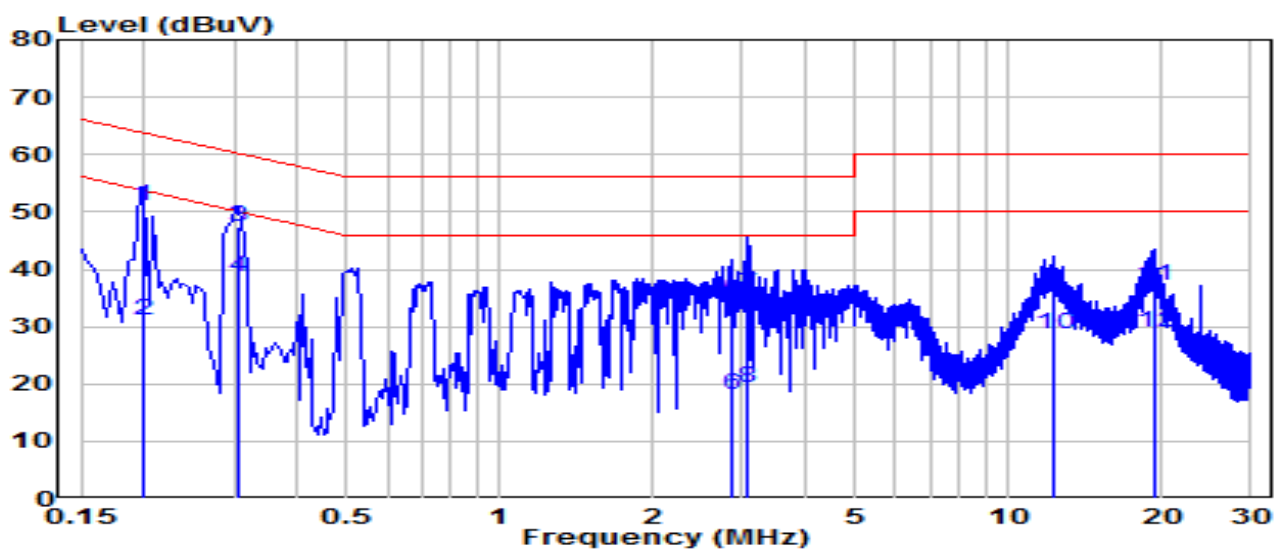
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.6.2. Test Setup



7.6.3. Test Result

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25°C /57%
Polarity	Line1	Site / Test Engineer	SR2 / Ryan
Test Mode	TX_NFC_13.56MHz	Test Voltage	AC 120V/60Hz

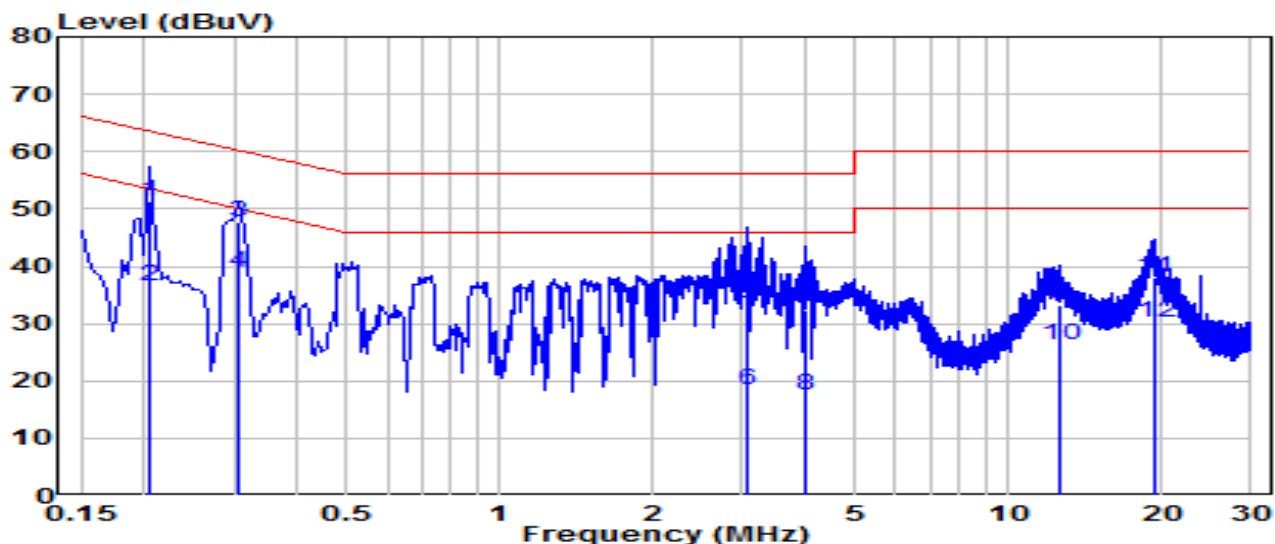


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.199	41.33	9.62	50.96	-12.68	63.63	QP
2		0.199	21.36	9.62	30.99	-22.65	53.63	Average
3	*	0.307	37.64	9.63	47.27	-12.77	60.04	QP
4	*	0.307	28.99	9.63	38.62	-11.42	50.04	Average
5		2.868	24.80	9.71	34.51	-21.49	56.00	QP
6		2.868	8.50	9.71	18.21	-27.79	46.00	Average
7		3.052	25.85	9.72	35.57	-20.43	56.00	QP
8		3.052	9.72	9.72	19.44	-26.56	46.00	Average
9		12.209	25.88	9.88	35.76	-24.24	60.00	QP
10		12.209	18.91	9.88	28.79	-21.21	50.00	Average
11		19.327	27.08	9.93	37.02	-22.98	60.00	QP
12		19.327	18.99	9.93	28.92	-21.08	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	Medical All-in-One PC	Date of Test	2025-07-10
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25°C /57%
Polarity	Neutral	Site / Test Engineer	SR2 / Ryan
Test Mode	TX_NFC_13.56MHz	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.204	41.69	9.62	51.31	-12.14	63.45	QP
2		0.204	27.02	9.62	36.65	-16.80	53.45	Average
3	*	0.307	38.13	9.63	47.76	-12.28	60.04	QP
4	*	0.307	29.19	9.63	38.82	-11.22	50.04	Average
5		3.061	23.87	9.72	33.59	-22.41	56.00	QP
6		3.061	8.71	9.72	18.43	-27.57	46.00	Average
7		3.979	22.55	9.73	32.28	-23.72	56.00	QP
8		3.979	7.67	9.73	17.40	-28.60	46.00	Average
9		12.578	23.40	9.90	33.29	-26.71	60.00	QP
10		12.578	16.49	9.90	26.39	-23.61	50.00	Average
11		19.363	28.00	9.97	37.97	-22.03	60.00	QP
12		19.363	20.17	9.97	30.15	-19.85	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Medical All-in-One PC** is in compliance with Part 15.225 of the FCC Rules.

Appendix A : Test Photograph

Refer to “2506TWA401-UT” file.

Appendix B : External Photograph

Refer to “2506TWA401-UE” file.

Appendix C : Internal Photograph

Refer to “2506TWA401-UI” file.

————— The End —————