

MRT Technology (Taiwan) Co., Ltd

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MEASUREMENT REPORT

FCC ID : INGSIEM-121T

APPLICANT : JTS PROFESSIONAL CO., LTD.

Application Type : Certification

Product : In-Ear Monitoring System

Model No. : SIEM-121T

Brand Name : JTS

FCC Classification: (DTS) Digital Transmission System

FCC Rule Part(s) : Part 15.249

Test Procedure(s): ANSI C63.10-2013

Received Date : August 30, 2024

Test Date : October 24~November 16, 2024

: Kaunaz Lee **Tested By**

(Kaunaz Lee)

Paddy Chen (Paddy Chen) **Reviewed By**

· any her **Approved By**

(Chenz Ker)





The test results only relate to the tested samples.

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 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.

Page Number: 1 of 49



Revision History

Report No.	Version	Description	Issue Date	Note
2408TWU101-U2	1.0	Original Report	2024-11-20	



CONTENTS

Des	scription	Page
1.	INTRODUCTION	6
1.1.	. Scope	6
1.2.		
2.	PRODUCT INFORMATION	7
2.1.	. Equipment Description	7
2.2.	• •	
2.3.		
2.4.		
2.5.		
2.6.	Test Software	8
2.7.	- 11	
2.8.	Labeling Requirements	8
3.	DESCRIPTION of TEST	9
3.1.	. Evaluation Procedure	9
3.2.	Radiated Emissions	10
4.	ANTENNA REQUIREMENTS	11
5.	TEST EQUIPMENT CALIBRATION DATE	12
6.	MEASUREMENT UNCERTAINTY	13
7.	TEST RESULT	14
7.4		
7.1. 7.2.	· · · · · · · · · · · · · · · · · · ·	
7.2. 7.2.	·	
7.2.		
7.2.		
7.2.	· · · · · · · · · · · · · · · · · · ·	
7.2.		
7.3.		
7.3.	——————————————————————————————————————	
7.3.	.2. Test Procedure Used	27
7.3.	.3. Test Setting	27
7.3.	.4. Test Setup	29
7.3.		
7.4.	3	34
7.4.		
7.4.		
7.4.	3	
7.4.		
7.4.		
7.5. 7.5.		
ı.J.		
7.5.	.2. Test Setup	





7.5.3.	Test Result	. 44
8. COI	NCLUSION	48
Appendi	x A : Test Photograph	49
Appendi	x B : External Photograph	49
Appendi	x C : Internal Photograph	49



General Information

Applicant	JTS PROFESSIONAL CO., LTD.			
Applicant Address	No. 148, Gongye 9th Rd., Dali Dist., Taichung City 412037, Taiwan			
Manufacturer	ITS PROFESSIONAL CO., LTD.			
Manufacturer Address	No. 148, Gongye 9th Rd., Dali Dist., Taichung City 412037, Taiwan			
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			
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.



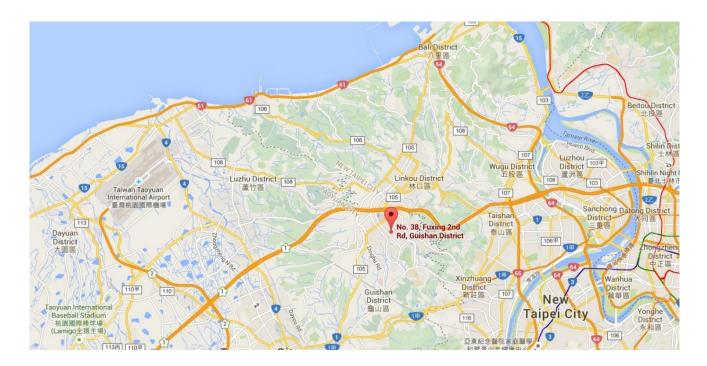
1. INTRODUCTION

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	In-Ear Monitoring System
Brand Name	JTS
Model No.	SIEM-121T
Accessory	
	Brand Name: TUV
	Model: JOD-S-120050GS-C-2
Power Adapter	Input: AC 100-240V~0.2A, 50-60Hz
	Output: 12.0V=0.5A, 6.0W
	DC Cable Out Non-Shielding, 1.5m

2.2. Product Specification Subjective to this Standard

Operating Frequency	2412.05MHz~2424.05MHz
Specification	SRD 2.4GHz
Type of modulation	FSK

2.3. Test Mode

Test Mode N	Mode 1: Transmit by SRD 2.4GHz
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Note: Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.



2.4. Operation Frequency / Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412.05 MHz	02	2416.05 MHz	03	2420.05 MHz
04	2424.05 MHz				

2.5. Test Configuration

This device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. Test Software

The test utility software used during testing was "Engineering Mode".

2.7. EMI Suppression Device(s)/Modifications

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

2.8. 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 C63.10-2013), and the guidance provided in KDB 558074 D01v05 were used in the measurement of the.

Deviation from measurement procedure......None



3.2. 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 7.6 & 7.7.



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 the In-Ear Monitoring System, is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ACX	AT3216-B2R7HAA	Chip	0.50dBi

Page Number: 11 of 49



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2025/5/14
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2025/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2025/4/21

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	Schwarzbeck	VULB 9162	MRTTWA00001	1 year	2025/11/5
Broadband Horn antenna	Schwarzbeck	BBHA 9120D	MRTTWA00003	1 year	2025/2/28
Broadband Preamplifier	Schwarzbeck	BBV 9718	MRTTWA00005	1 year	2025/2/28
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2025/3/14

Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software

Page Number: 12 of 49



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=2Uc(y)):

0.15MHz~30MHz: ± 2.53dB

Conducted Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 1.3dB

Radiated Spurious Emission

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz~30MHz: ± 3.92dB 30MHz~1GHz: ± 4.25dB 1GHz~18GHz: ± 4.40dB 18GHz~40GHz: ± 4.45dB

Page Number: 13 of 49



7. TEST RESULT

7.1. Summary

Product Name: In-Ear Monitoring System

FCC Classification: (DTS) Digital Transmission System

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.205 15.209	Spurious Emission	< FCC 15.209 limits		Pass	Section 7.2
15.205 15.209	Band Edge Measurement	<pre>≤ 74dBuV/m(Peak) ≤54dBuV/m(Average)</pre>	Radiated	Pass	Section 7.3
15.249	Field strength of fundamental	< FCC 15.249 limits		Pass	Section 7.4
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.5

- 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.
- 2) 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.
- 3) 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.
- 4) 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. Radiated Spurious Emission Measurement

7.2.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

F	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									

7.2.2. Test Procedure Used

KDB 558074 D01v05- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v05- Section 12.2.4 (peak power measurements)

KDB 558074 D01v05- Section 12.2.5 (average power measurements)

7.2.3. Test Setting

Peak Field Strength 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 = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple



- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

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

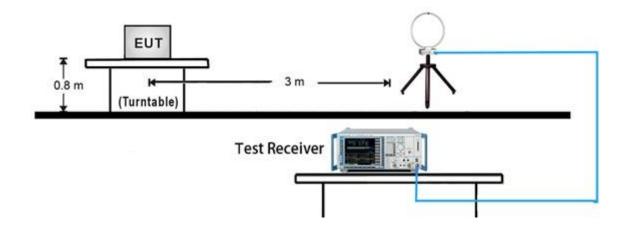
Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2.RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De 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 in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

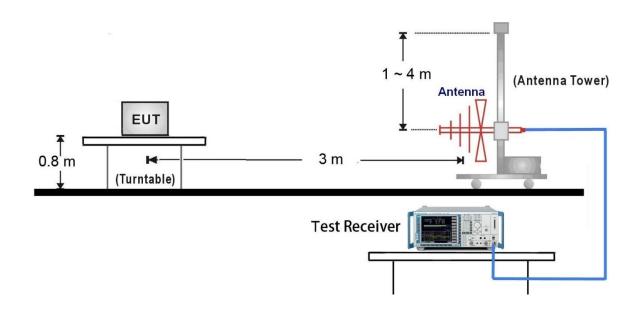


7.2.4. Test Setup

9kHz ~ 30MHz Test Setup:



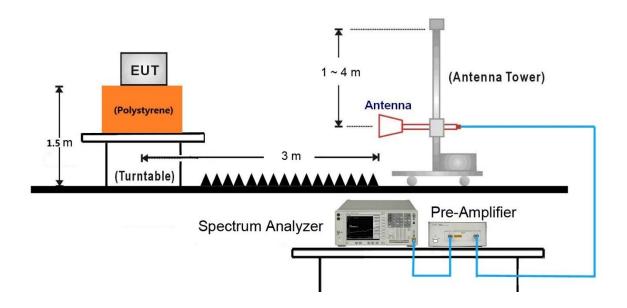
30MHz ~ 1GHz Test Setup:



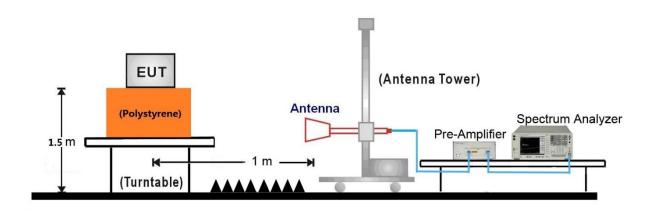
Page Number: 17 of 49



1GHz ~ 18GHz Test Setup:



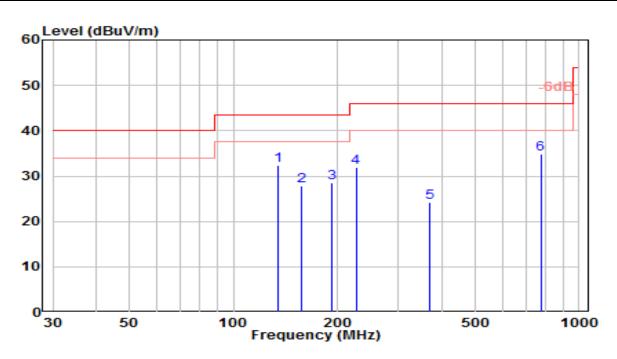
18GHz ~25GHz Test Setup:





7.2.5. Test Result

EUT	In-Ear Monitoring System	Date of Test	2024-11-13
Factor	VULB 9162	Temp. / Humidity	26°C /70%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz

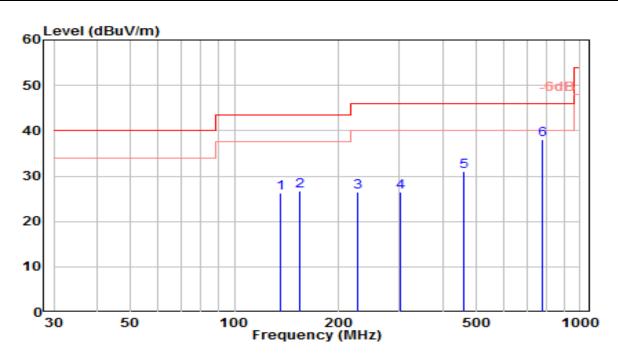


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	135.125	17.35	15.13	32.48	-11.02	43.50	150	290	QP
2		157.534	12.32	15.55	27.87	-15.63	43.50	150	275	QP
3		191.718	10.87	17.72	28.58	-14.92	43.50	150	130	QP
4		226.134	13.09	18.92	32.00	-14.00	46.00	100	90	QP
5		369.419	1.20	23.04	24.24	-21.76	46.00	100	285	QP
6		774.256	5.20	29.59	34.78	-11.22	46.00	100	145	QP

- 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	In-Ear Monitoring System	Date of Test	2024-11-13
Factor	VULB 9162	Temp. / Humidity	26°C /70%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz

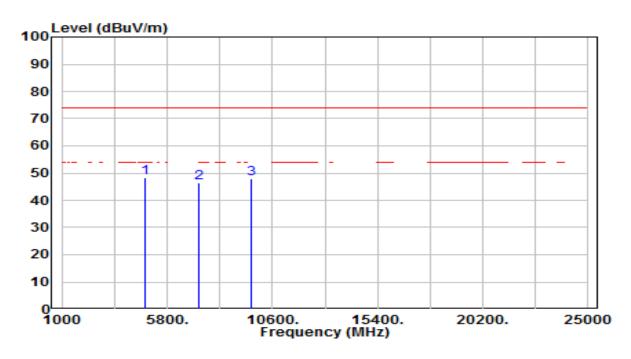


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	135.555	11.21	15.10	26.31	-17.19	43.50	100	275	QP
2	154.078	11.20	15.43	26.63	-16.87	43.50	100	220	QP
3	226.216	7.51	18.92	26.43	-19.57	46.00	150	190	QP
4	303.256	5.59	20.88	26.47	-19.53	46.00	100	285	QP
5	461.907	6.74	24.38	31.12	-14.88	46.00	100	20	QP
6	* 777.752	8.32	29.61	37.93	-8.07	46.00	100	15	QP

- 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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz

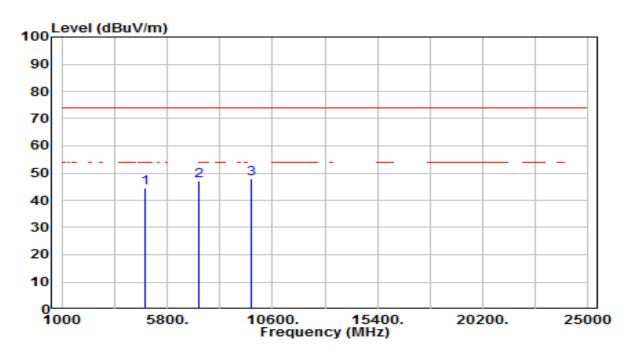


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	4824.000	44.46	3.75	48.20	-25.80	74.00	100	208	Peak
2		7236.000	34.64	11.68	46.32	-27.68	74.00	100	336	Peak
3		9648.000	32.23	15.77	48.00	-26.00	74.00	100	10	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz

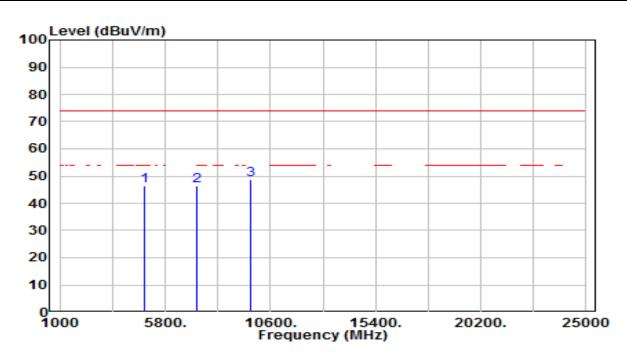


No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	4824.000	40.90	3.75	44.64	-29.36	74.00	100	169	Peak
2	7236.000	35.32	11.68	47.00	-27.00	74.00	100	102	Peak
3	* 9648.000	32.15	15.77	47.92	-26.08	74.00	100	268	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz

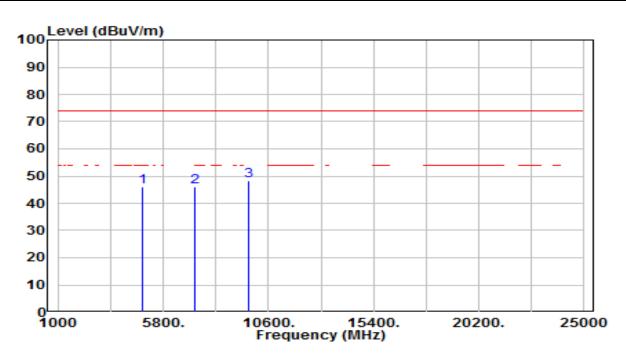


No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	4840.000	42.73	3.78	46.50	-27.50	74.00	100	198	Peak
2	7260.000	34.71	11.76	46.47	-27.53	74.00	100	109	Peak
3	* 9680.000	32.75	15.83	48.58	-25.42	74.00	100	13	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz

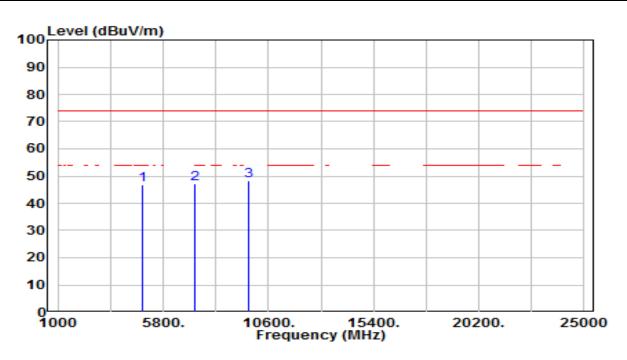


No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	4840.000	42.09	3.78	45.87	-28.13	74.00	100	170	Peak
2	7260.000	34.14	11.76	45.90	-28.10	74.00	100	276	Peak
3	* 9680.000	32.34	15.83	48.17	-25.83	74.00	100	106	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz

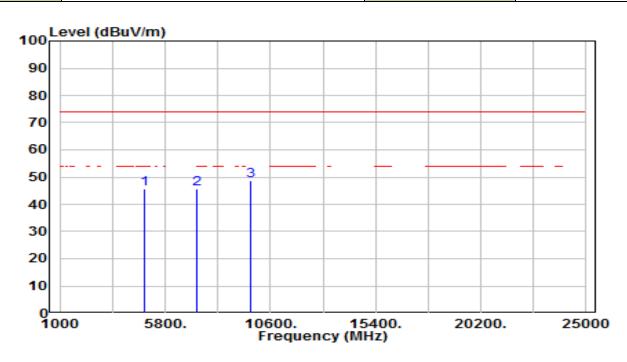


No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	4848.000	42.93	3.79	46.72	-27.28	74.00	100	208	Peak
2	7272.000	35.32	11.80	47.12	-26.88	74.00	100	310	Peak
3	* 9696.000	32.29	15.86	48.15	-25.85	74.00	100	16	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz



No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	4848.000	41.92	3.79	45.71	-28.29	74.00	100	170	Peak
2	7272.000	33.87	11.80	45.67	-28.33	74.00	100	276	Peak
3	* 9696.000	32.77	15.86	48.63	-25.37	74.00	100	323	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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 Restricted Band Edge Measurement

7.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

47 OF ICHIGAL HOLEAGEGUALITE										
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								

7.3.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.3.3. Test Setting

Peak Field Strength 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 * RBW
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Table 1 - RBW as a function of frequency

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

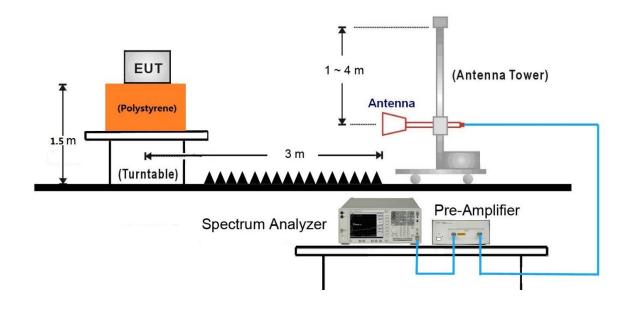
Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De 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 in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces



7.3.4. Test Setup

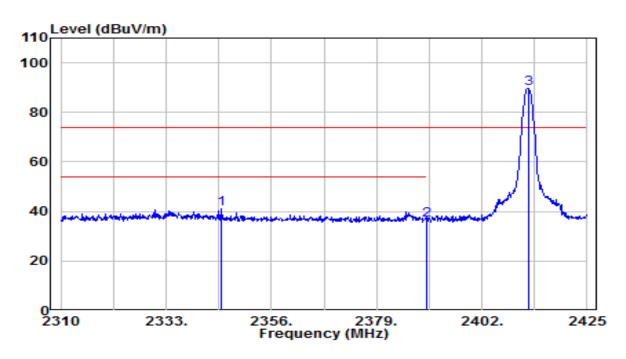
1GHz ~ 18GHz Test Setup:





7.3.5. Test Result

EUT	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D	Temp. / Humidity	25°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz

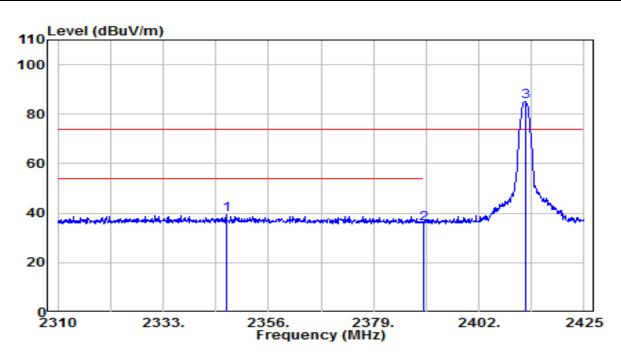


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	2344.960	43.29	-2.17	41.12	-32.88	74.00	110	175	Peak
2		2390.000	38.40	-2.03	36.37	-37.63	74.00	110	175	Peak
3		2412.120	91.44	-1.96	89.48	N/A	N/A	110	175	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08
Factor	BBHA 9120D	Temp. / Humidity	25°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz

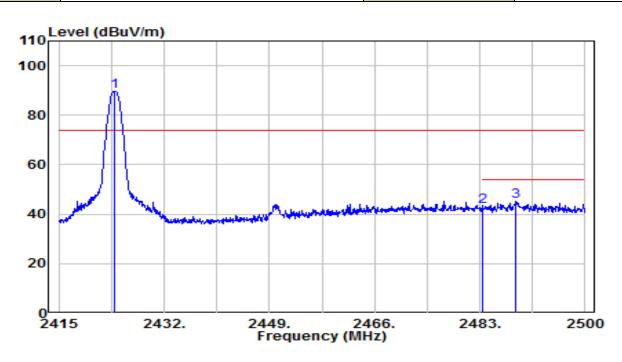


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	2346.800	41.68	-2.16	39.51	-34.49	74.00	120	195	Peak
2		2390.000	37.57	-2.03	35.54	-38.46	74.00	120	195	Peak
3		2412.120	86.95	-1.96	84.99	N/A	N/A	120	195	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08		
Factor	BBHA 9120D	Temp. / Humidity	25°C /62%		
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz		

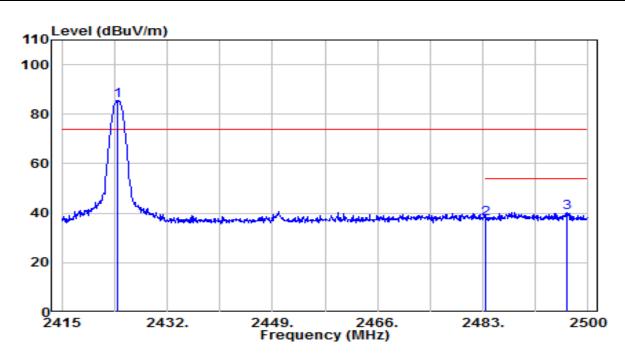


No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	2424.095	91.59	-1.92	89.67	N/A	N/A	130	180	Peak
2	2483.500	44.95	-1.73	43.22	-30.78	74.00	130	180	Peak
3	* 2488.865	46.93	-1.72	45.22	-28.78	74.00	130	180	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-08		
Factor	BBHA 9120D	Temp. / Humidity	25°C /62%		
Polarity	Vertical	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz		



No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	2424.095	87.46	-1.92	85.54	N/A	N/A	270	70	Peak
2	2483.500	39.71	-1.73	37.98	-36.02	74.00	270	70	Peak
3	* 2496.685	42.15	-1.69	40.46	-33.54	74.00	270	70	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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. Field strength of fundamental

7.4.1. Test Limit

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

500 D. 145 O. L. 140 D 145 040								
FCC Part 15 Subpart C Paragraph 15.249								
Frequency [MHz]	Field Strength of Fundamental [Millivolts/Meter]	Field Strength of Harmonics [Millivolts/Meter]						
902-928	50	500						
2400-2483.5	50	500						
5725-5875	50	500						
24000-24250	250	2500						

7.4.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

7.4.3. Test Setting

Peak Field Strength Measurements

- 8. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 9. RBW = as specified in Table 1
- 10. VBW = 3 * RBW
- 11. Detector = peak
- 12. Sweep time = auto couple
- 13. Trace mode = max hold
- 14. Trace was allowed to stabilize

Page Number: 34 of 49



Table 1 - RBW as a function of frequency

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

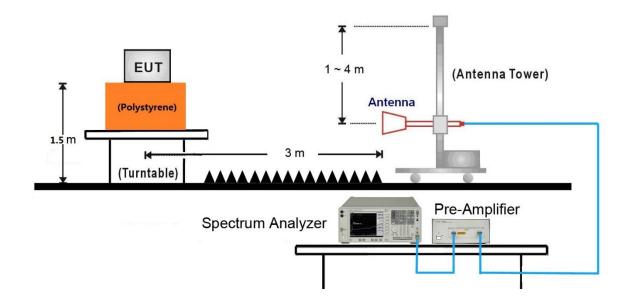
Average Field Strength Measurements

- 9. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 10. RBW = 1MHz
- 11. VBW ≥ 1/T
- 12. De 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 in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 13. Detector = Peak
- 14. Sweep time = auto
- 15. Trace mode = max hold
- 16. Allow max hold to run for at least 50 times (1/duty cycle) traces

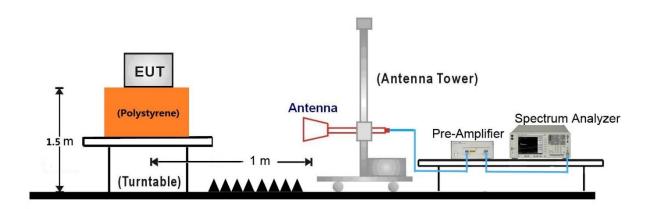


7.4.4. Test Setup

1GHz ~ 18GHz Test Setup:



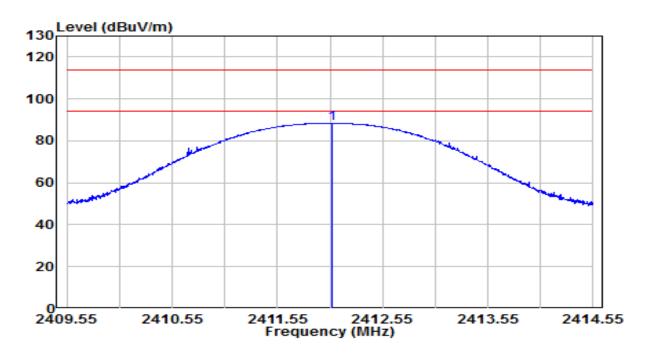
18GHz ~40GHz Test Setup:





7.4.5. Test Result

EUT	In-Ear Monitoring System	Date of Test	2024-11-16		
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%		
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz		

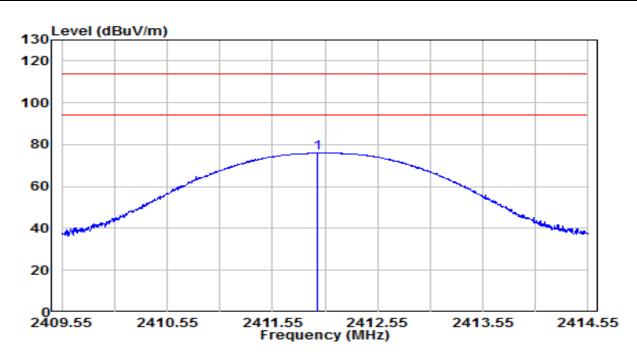


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	2412.065	90.16	-1.96	88.20	-25.80	114.00	110	167	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-16		
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%		
Polarity	Vertical	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2412.05MHz	Test Voltage	AC 120V/60Hz		

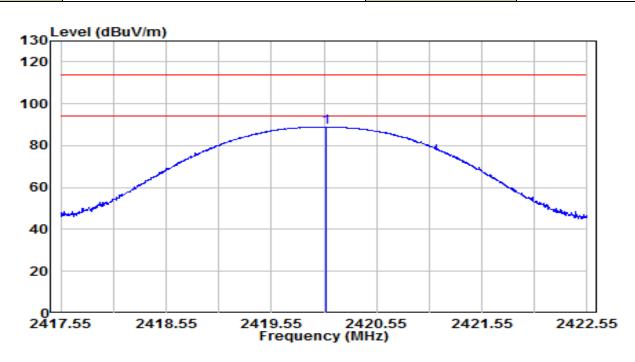


	مام	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
ľ	No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
	1	* 2411.980	77.84	-1.96	75.89	-38.11	114.00	100	194	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-16		
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%		
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz		

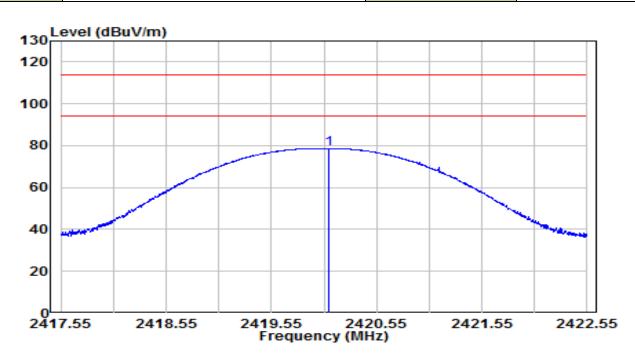


_	la	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
1	No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
	1 '	2420.070	90.68	-1.93	88.75	-25.25	114.00	199	172	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-16		
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%		
Polarity	Vertical	Site / Test Engineer	AC1 / Todd		
Test Mode	SRD 2.4G_TX_2420.05MHz	Test Voltage	AC 120V/60Hz		

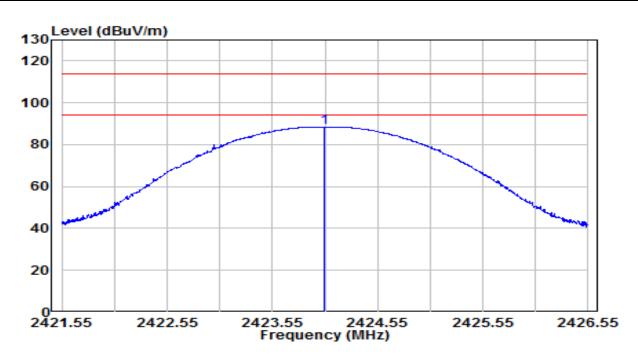


	مام	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
I.	No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
	1	* 2420.100	80.52	-1.93	78.59	-35.41	114.00	292	112	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-16
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz

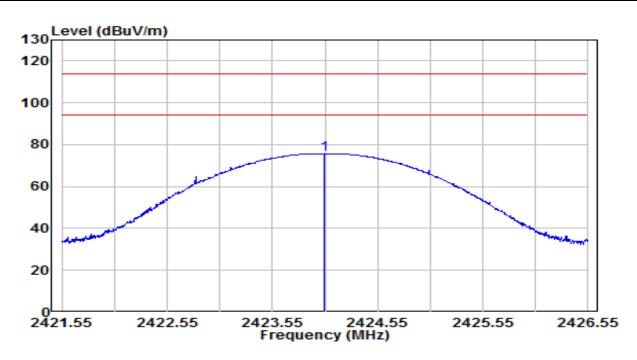


	Jo.		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
1	No		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
	1	*	2424.045	90.46	-1.92	88.54	-25.46	114.00	200	170	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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	In-Ear Monitoring System	Date of Test	2024-11-16
Factor	BBHA 9120D	Temp. / Humidity	25°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	SRD 2.4G_TX_2424.05MHz	Test Voltage	AC 120V/60Hz



	Jo.		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
•	No		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
	1	*	2424.040	77.65	-1.92	75.73	-38.27	114.00	102	186	Peak

- 1. " *", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) Preamplifier(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.



7.5. AC Conducted Emissions Measurement

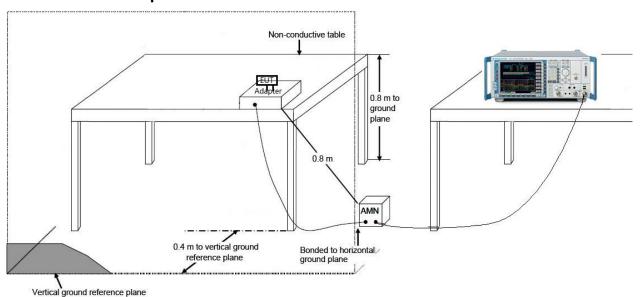
7.5.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits						
Frequency (MHz)	QP (dBµV)	Average (dBµV)				
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.

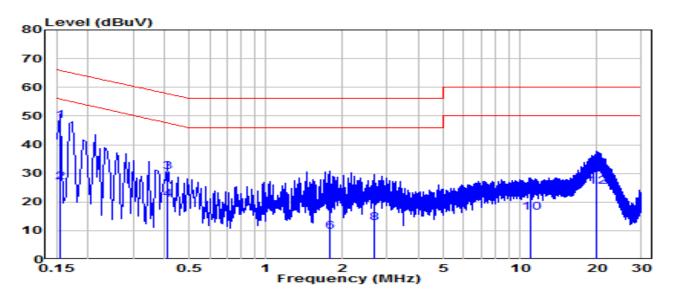
7.5.2. Test Setup





7.5.3. Test Result

UT	In-Ear Monitoring System	Date of Test	2024-10-24
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24.6°C /53%
Polarity	Line1	Site / Test Engineer	SR2 / Will
Test Mode	SRD 2.4G_TX_CH 39	Test Voltage	AC 120V/60Hz

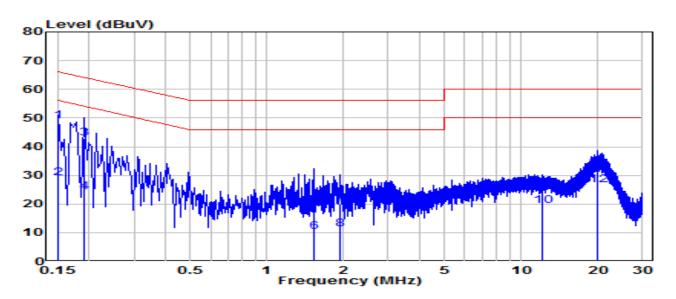


Na		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
No		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.154	38.76	9.63	48.40	-17.36	65.75	QP
2	*	0.154	17.32	9.63	26.95	-28.80	55.75	Average
3		0.411	20.93	9.65	30.57	-27.05	57.63	QP
4		0.411	11.08	9.65	20.73	-26.90	47.63	Average
5		1.792	9.47	9.70	19.17	-36.83	56.00	QP
6		1.792	0.07	9.70	9.76	-36.24	46.00	Average
7		2.674	11.17	9.71	20.88	-35.12	56.00	QP
8		2.674	2.99	9.71	12.70	-33.30	46.00	Average
9		11.012	12.33	9.88	22.20	-37.80	60.00	QP
10		11.012	6.42	9.88	16.30	-33.70	50.00	Average
11		19.854	21.68	9.94	31.62	-28.38	60.00	QP
12		19.854	15.49	9.94	25.43	-24.57	50.00	Average

- 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	In-Ear Monitoring System	Date of Test	2024-10-24
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24.6°C /53%
Polarity	Neutral	Site / Test Engineer	SR2 / Will
Test Mode	SRD 2.4G_TX_CH 39	Test Voltage	AC 120V/60Hz

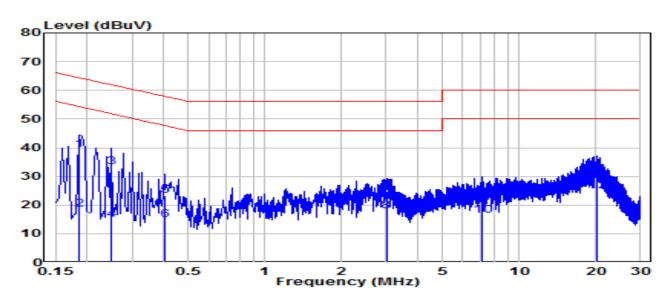


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.150	39.18	9.63	48.81	-17.19	66.00	QP
2	*	0.150	19.23	9.63	28.86	-27.14	56.00	Average
3		0.190	33.16	9.63	42.79	-21.22	64.01	QP
4		0.190	14.41	9.63	24.04	-29.97	54.01	Average
5		1.540	9.33	9.70	19.03	-36.97	56.00	QP
6		1.540	0.71	9.70	10.41	-35.59	46.00	Average
7		1.950	10.09	9.71	19.80	-36.20	56.00	QP
8		1.950	1.60	9.71	11.31	-34.69	46.00	Average
9		12.123	14.87	9.91	24.78	-35.22	60.00	QP
10		12.123	9.51	9.91	19.42	-30.58	50.00	Average
11		19.989	22.53	10.00	32.53	-27.47	60.00	QP
12		19.989	16.51	10.00	26.51	-23.49	50.00	Average

- 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	In-Ear Monitoring System	Date of Test	2024-10-24
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24.6°C /53%
Polarity	Line1	Site / Test Engineer	SR2 / Will
Test Mode	SRD 2.4G_TX_CH 39	Test Voltage	AC 240V/60Hz

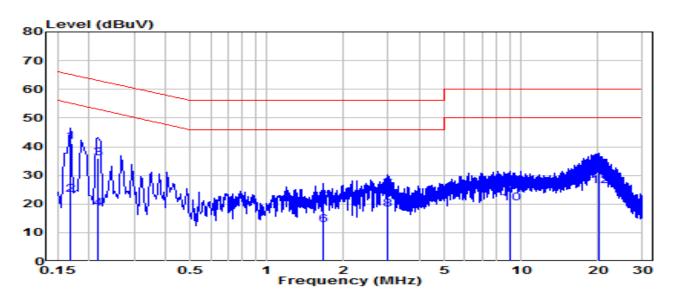


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.186	29.66	9.63	39.29	-24.92	64.21	QP
2	*	0.186	8.77	9.63	18.40	-35.81	54.21	Average
3		0.249	23.63	9.64	33.27	-28.52	61.79	QP
4		0.249	5.29	9.64	14.93	-36.86	51.79	Average
5		0.402	13.53	9.64	23.18	-34.64	57.81	QP
6		0.402	5.25	9.64	14.90	-32.91	47.81	Average
7		3.003	15.10	9.72	24.82	-31.18	56.00	QP
8		3.003	8.10	9.72	17.82	-28.18	46.00	Average
9		7.120	12.44	9.80	22.24	-37.76	60.00	QP
10		7.120	6.36	9.80	16.16	-33.84	50.00	Average
11		20.240	20.42	9.94	30.36	-29.64	60.00	QP
12		20.240	14.75	9.94	24.69	-25.31	50.00	Average

- 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	In-Ear Monitoring System	Date of Test	2024-10-24
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24.6°C /53%
Polarity	Neutral	Site / Test Engineer	SR2 / Will
Test Mode	SRD 2.4G_TX_CH 39	Test Voltage	AC 240V/60Hz



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV)	(dB)	(dBuV)	(QP/PK/AV)
1	*	0.168	32.02	9.63	41.65	-23.41	65.06	QP
2	*	0.168	13.69	9.63	23.32	-31.74	55.06	Average
3		0.217	26.34	9.63	35.97	-26.94	62.91	QP
4		0.217	8.86	9.63	18.49	-34.42	52.91	Average
5		1.666	10.89	9.70	20.59	-35.41	56.00	QP
6		1.666	3.04	9.70	12.74	-33.26	46.00	Average
7		2.976	15.38	9.72	25.11	-30.89	56.00	QP
8		2.976	8.50	9.72	18.23	-27.77	46.00	Average
9		9.023	16.03	9.86	25.89	-34.11	60.00	QP
10		9.023	10.46	9.86	20.33	-29.67	50.00	Average
11		20.177	21.80	10.00	31.80	-28.20	60.00	QP
12		20.177	16.12	10.00	26.12	-23.88	50.00	Average

- 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 **In-Ear Monitoring System, FCC ID: INGSIEM-121T** is in compliance with Part 15C of the FCC Rules.

Page Number: 48 of 49



Appendix A : Test Photograph

Refer to "2408TWU101-UT" file.

Appendix	B :	External	Photo	graph
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Refer to "2408TWU101-UE" file.

Appendix C : Internal Photograp	l Photograph
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Refer to "2408TWU101-UI" file.		

The End