Co-location REPORT

FCC ID	:	**Q9DAPIN0755A**
Applicant	:	**Hewlett Packard Enterprise Company**
Application Type	:	**Certification**
Product	:	**ACCESS POINT**
Model No.	:	**APIN0755A**
Brand Name	:	Hewlett Packard Enterprise
FCC Rule Part(s)	:	**Part15 Subpart C (Section 15.247)** **Part15 Subpart E (Section 15.407)**
Received Date	:	**December 9, 2024**
Test Date	:	**April 11, 2025**

Tested By	:	Owen Tsai (Owen Tsai)
Reviewed By	:	Paddy Chen (Paddy Chen)
Approved By	:	Chenz Ker (Chenz Ker)

Testing Laboratory
3261

The test results relate only to the samples tested.

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: 2013. Test results reported herein relate only to the item(s) tested.

Revision History

Report No.	Version	Description	Issue Date	Note
2412TW0107-U9	1.0	Original Report	2025-04-15	

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Description Page

General Information

Applicant	Hewlett Packard Enterprise Company
Applicant Address	6280 America Center Drive, San Jose CA 95002, United States
Manufacturer	Hewlett Packard Enterprise Company
Manufacturer Address	6280 America Center Drive, San Jose CA 95002, United States
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 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.

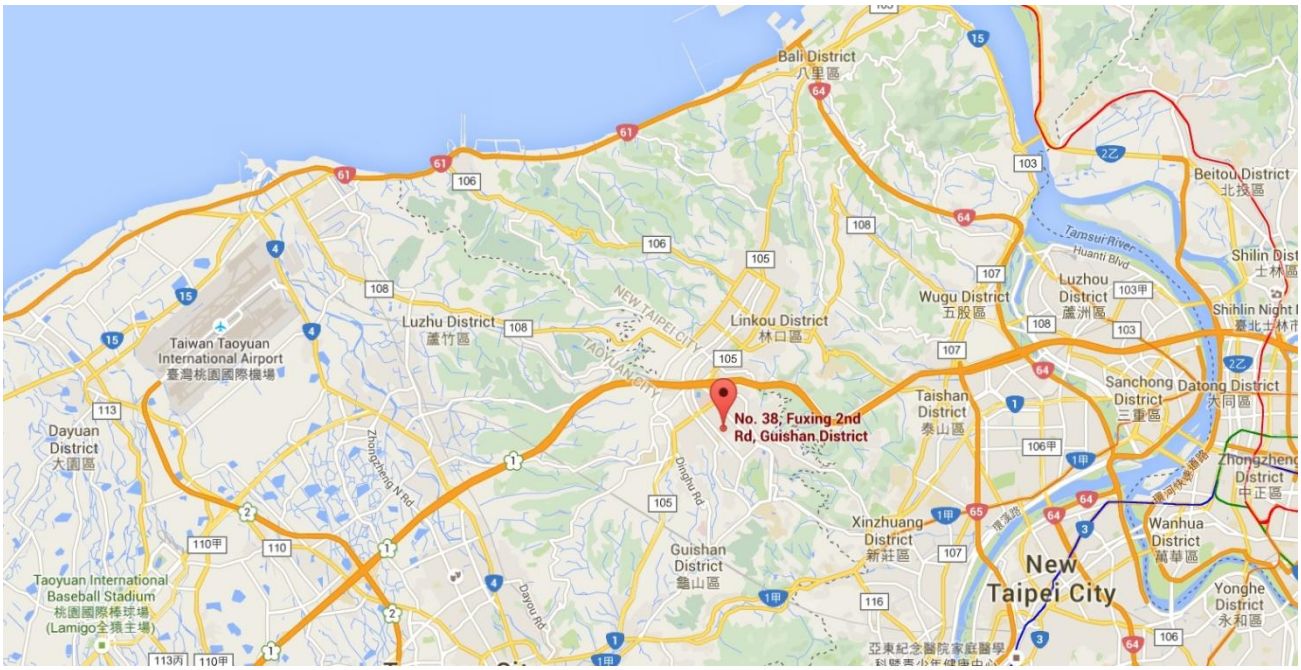
1. INTRODUCTION

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 Innovation, Science and Economic Development Canada and 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	ACCESS POINT
Model No.	APIN0755A
Serial No.	Radiated Sample: VNSYML300R
Software Version	v0.4.6
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
ZigBee Specification	802.15.4
GNSS Specification	GPS, Galileo
Power Supply	AC/DC Adapter and PoE Injector Input
Operating Environment	Indoor Use
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

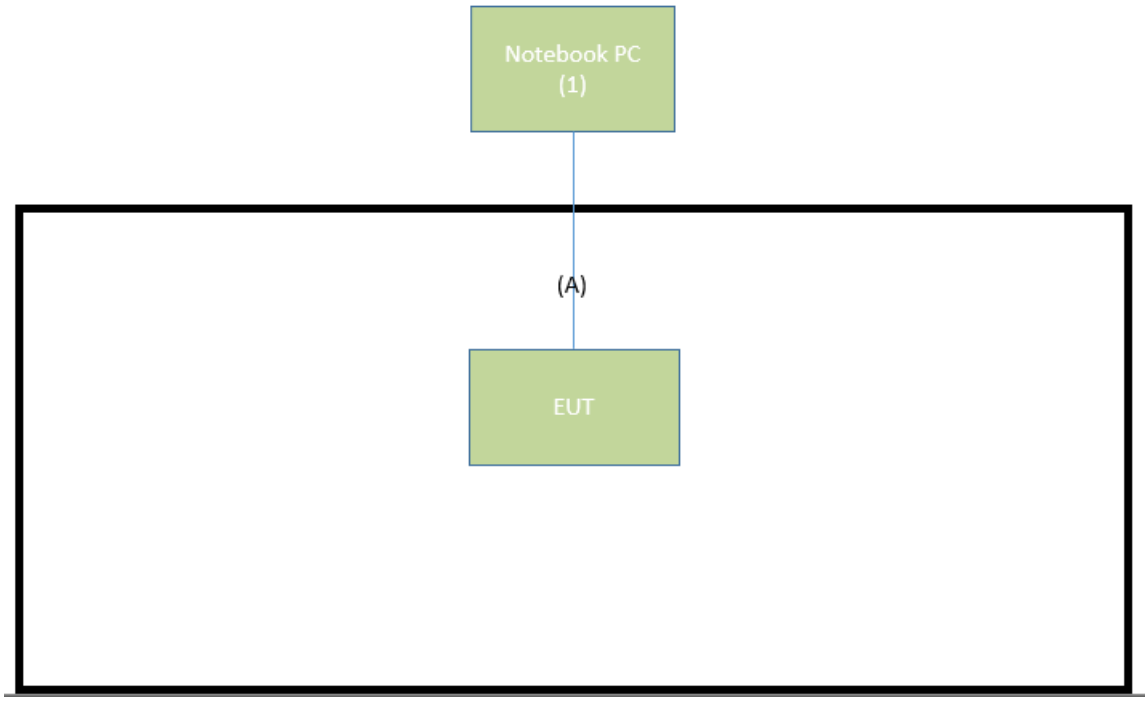
2.2. Test Mode

Mode 1: Transmit by BLE Core1 CH 19 + Radio2 WIFI2.4G be20 CH 6 + Radio1 WIFI5G (PB) ax20 B4 CH149 + Radio0 WIFI6G(FB) B5 be320 CH31
Mode 2: Transmit by Zigbee Core1 CH 18 + Radio2 WIFI2.4G be20 CH 6 + Radio1 WIFI5G (HB) ax20 B4 CH149 + Radio0 WIFI6G(PB) B5 be320 CH63

2.3. Configuration of Test System

The devicewas tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram



Signal Cable Type		Signal Cable Description
A	Lan Cable	Non-Shielded, 3.0m

2.4. Test System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	V14 G3 ABA	N/A	Non-shielded, 0.8m

2.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- FCC Part 15.407
- KDB 558074 D01v05r02
- KDB 789033 D02v02r01
- ANSI C63.10-2013

3. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2025/11/5
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2025/5/20
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2025/5/14
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2026/3/27
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2026/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2026/3/4
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/6/20

Software	Manufacturer	Version No.
e3	Audix	9.160520a

4. 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.

Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz ~ 1GHz: ± 4.25dB 1GHz ~ 40GHz: ± 4.45dB

5. Radiated Spurious Emission Measurement (Co-location)

5.1. Test Limit

For 15.247(d) requirement:

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/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

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceedane.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasinglinearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasinglinearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edgeincreasing linearly to a level of 27 dBm/MHz at the band edge.

5.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 Section 6.3 (General Requirements)

ANSI C63.10 - 2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 Section 6.6 (Standard test method above 1GHz)

5.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW;If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

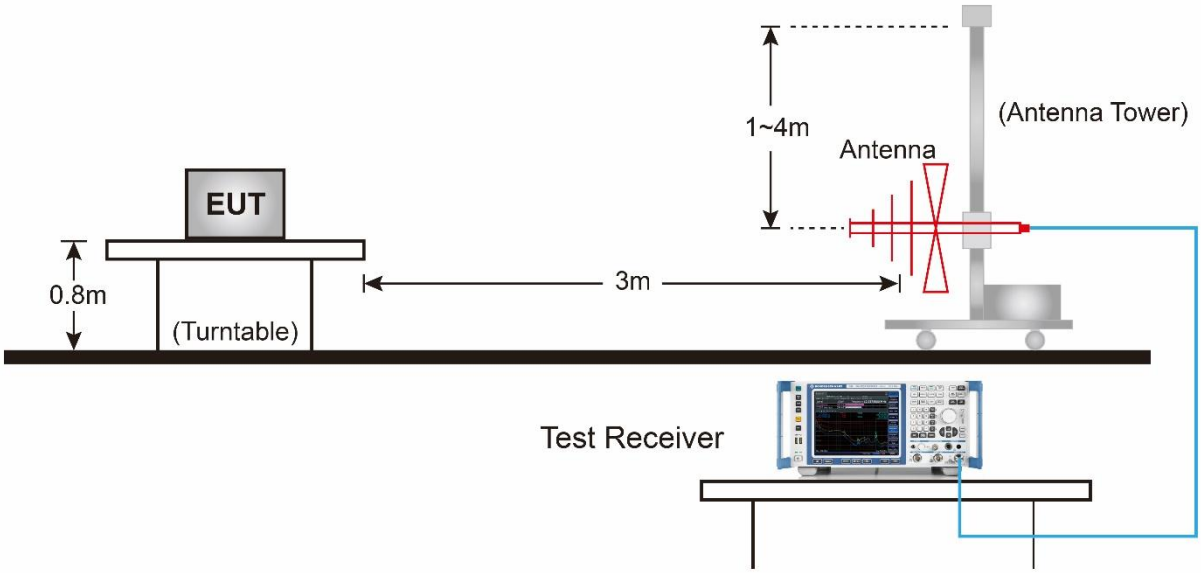
5. Sweep time = auto

6. Trace mode = max hold

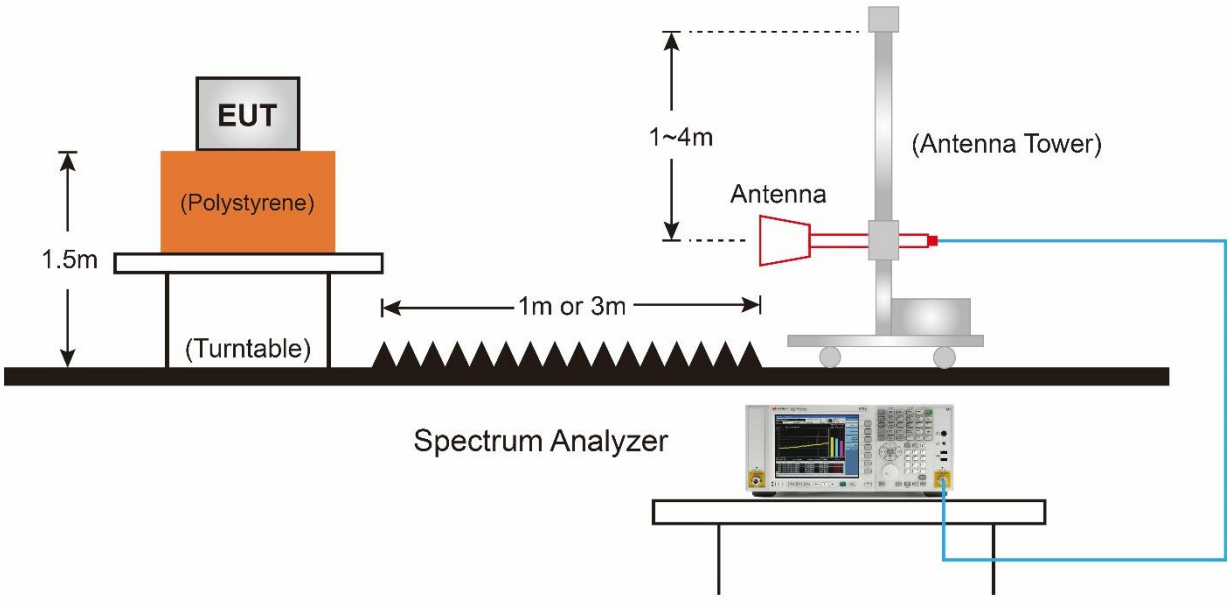
7. Trace was allowed to stabilize

5.4. Test Setup

Below 1GHz Test Setup:

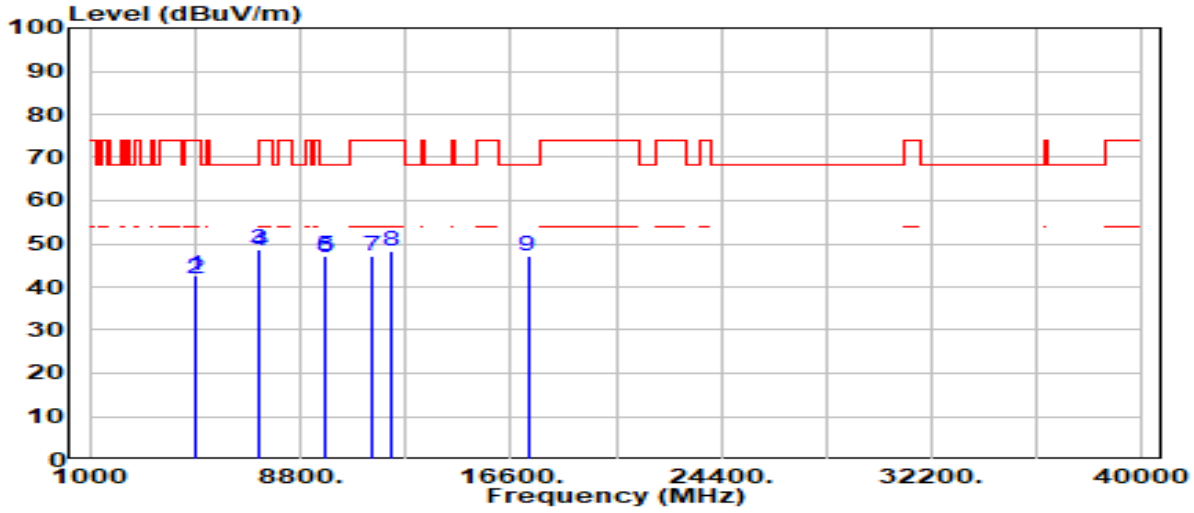


Above 1GHz Test Setup:



5.5. Test Result

EUT	ACCESS POINT	Date of Test	2025-04-11
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /63%
Polarity	Horizontal	Site / Test Engineer	AC2 / Aby
Test Mode	Co-Location BLE_1M_CH19_Core 1 on Ant 14 with Filter 4+ Radio2 WIFI2.4G be20 CH 6_4TX+ Radio1 WIFI5G with Filter PB ax20 B4 CH149_4TX + Radio0 WIFI6G with Filter FB B5 be320 CH31_4TX	Test Voltage	AC 120V/60Hz

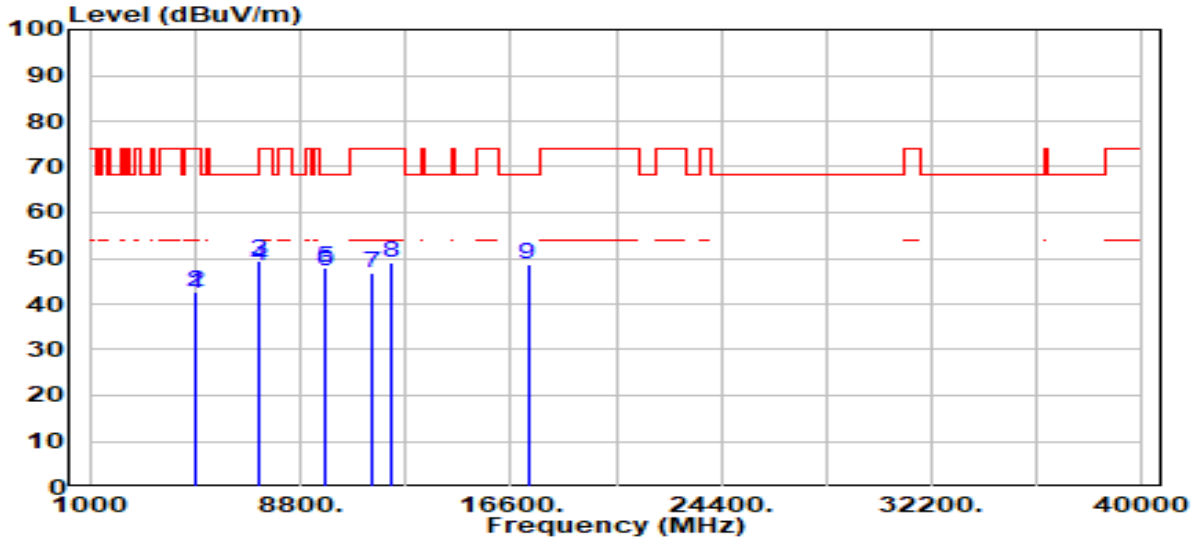


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	42.34	0.25	42.60	-31.40	74.00	100	87	Peak
2		4880.000	41.69	0.27	41.96	-32.04	74.00	100	70	Peak
3		7311.000	42.89	5.82	48.71	-25.29	74.00	300	360	Peak
4		7320.000	42.59	5.82	48.40	-25.60	74.00	300	0	Peak
5	*	9748.000	41.90	5.19	47.09	-21.11	68.20	300	224	Peak
6		9760.000	41.72	5.20	46.92	-21.28	68.20	300	360	Peak
7		11490.000	41.83	5.28	47.11	-26.89	74.00	300	360	Peak
8		12210.000	42.48	5.86	48.33	-25.67	74.00	100	234	Peak
9		17235.000	41.77	5.25	47.02	-21.18	68.20	300	360	Peak

Note:

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	ACCESS POINT	Date of Test	2025-04-11
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /63%
Polarity	Vertical	Site / Test Engineer	AC2 / Aby
Test Mode	Co-Location BLE_1M_CH19_Core 1 on Ant 14 with Filter 4+ Radio2 WIFI2.4G be20 CH 6_4TX+ Radio1 WIFI5G with Filter PB ax20 B4 CH149_4TX + Radio0 WIFI6G with Filter FB B5 be320 CH31_4TX	Test Voltage	AC 120V/60Hz

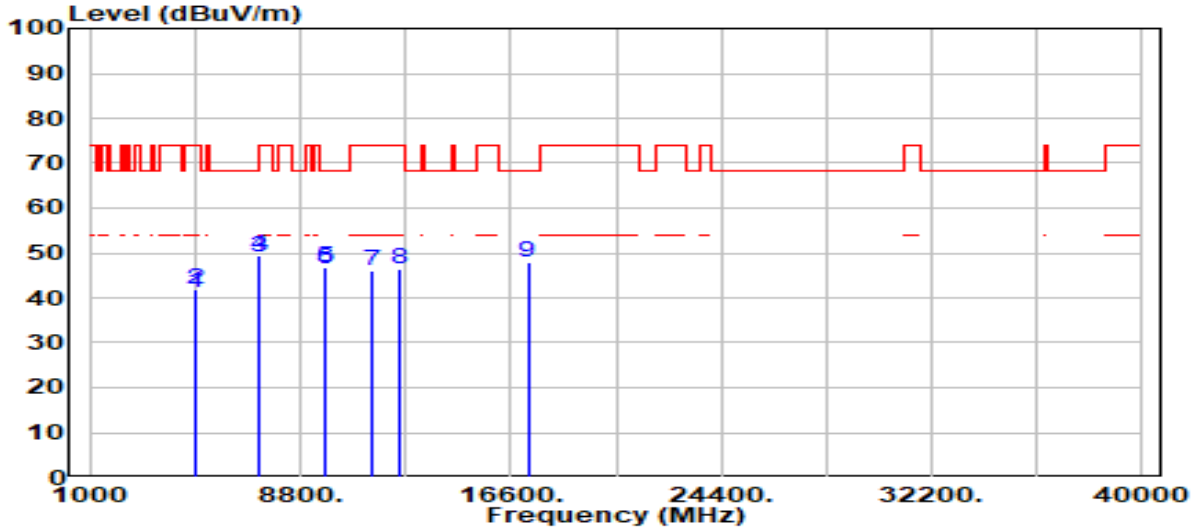


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	41.96	0.25	42.21	-31.79	74.00	200	162	Peak
2		4880.000	42.24	0.27	42.50	-31.50	74.00	100	360	Peak
3		7311.000	43.57	5.82	49.39	-24.61	74.00	200	255	Peak
4		7320.000	42.31	5.82	48.13	-25.87	74.00	200	22	Peak
5		9748.000	42.58	5.19	47.77	-20.43	68.20	300	56	Peak
6		9760.000	41.84	5.20	47.04	-21.16	68.20	300	117	Peak
7		11490.000	41.34	5.28	46.62	-27.38	74.00	300	152	Peak
8		12210.000	43.04	5.86	48.90	-25.10	74.00	200	258	Peak
9	*	17235.000	43.32	5.25	48.56	-19.64	68.20	300	0	Peak

Note:

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	ACCESS POINT	Date of Test	2025-04-11
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /63%
Polarity	Horizontal	Site / Test Engineer	AC2 / Aby
Test Mode	Co-Location Zigbee_CH18_Core 1 on Ant 8 with Filter 7+ Radio2 WIFI2.4G be20 CH 6_4TX+ Radio1 WIFI5G with Filter HB ax20 B4 CH149_4TX + Radio0 WIFI6G with Filter PB B5 be320 CH63_4TX	Test Voltage	AC 120V/60Hz

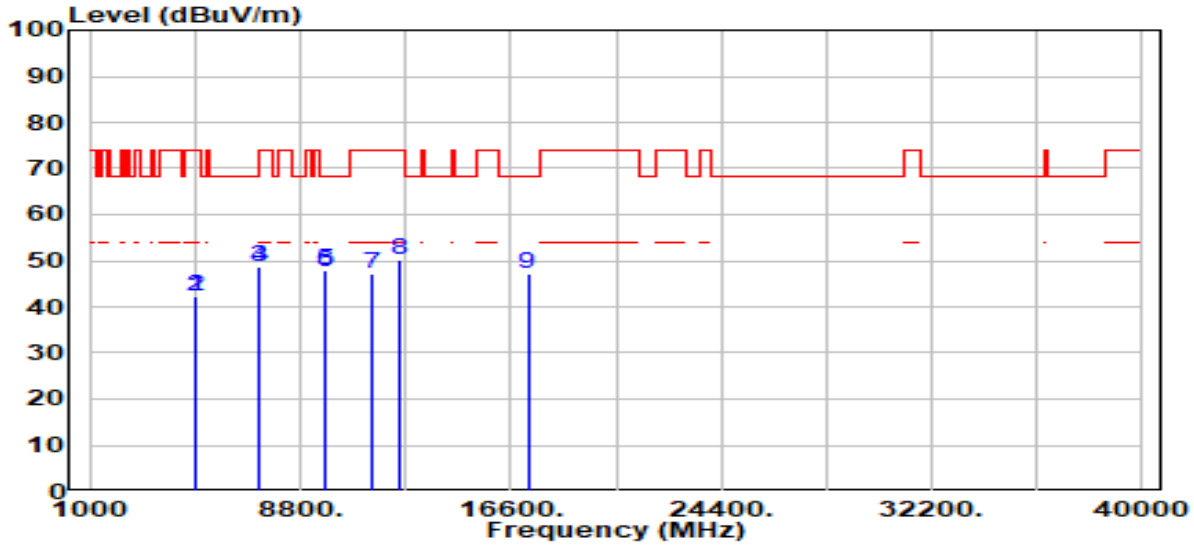


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	40.82	0.25	41.07	-32.93	74.00	100	318	Peak
2		4880.000	41.80	0.27	42.06	-31.94	74.00	155	360	Peak
3		7311.000	43.12	5.82	48.93	-25.07	74.00	200	110	Peak
4		7320.000	43.48	5.82	49.30	-24.70	74.00	100	244	Peak
5		9748.000	41.64	5.19	46.84	-21.36	68.20	300	0	Peak
6		9760.000	41.24	5.20	46.44	-21.76	68.20	100	75	Peak
7		11490.000	40.60	5.28	45.88	-28.12	74.00	100	253	Peak
8		12530.000	39.92	6.67	46.59	-27.41	74.00	100	253	Peak
9	*	17235.000	42.55	5.25	47.80	-20.40	68.20	300	287	Peak

Note:

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	ACCESS POINT	Date of Test	2025-04-11
Factor	DRH18-E & BBHA 9170	Temp. / Humidity	21°C /63%
Polarity	Vertical	Site / Test Engineer	AC2 / Aby
Test Mode	Co-Location Zigbee_CH18_Core 1 on Ant 8 with Filter 7+ Radio2 WIFI2.4G be20 CH 6_4TX+ Radio1 WIFI5G with Filter HB ax20 B4 CH149_4TX + Radio0 WIFI6G with Filter PB B5 be320 CH63_4TX	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		4874.000	41.91	0.25	42.17	-31.83	74.00	118	360	Peak
2		4880.000	42.09	0.27	42.36	-31.64	74.00	200	58	Peak
3		7311.000	42.93	5.82	48.75	-25.25	74.00	300	228	Peak
4		7320.000	42.92	5.82	48.74	-25.26	74.00	100	103	Peak
5	*	9748.000	42.59	5.19	47.78	-20.42	68.20	100	290	Peak
6		9760.000	42.34	5.20	47.53	-20.67	68.20	300	52	Peak
7		11490.000	41.84	5.28	47.12	-26.88	74.00	100	0	Peak
8		12530.000	43.66	6.67	50.32	-23.68	74.00	300	254	Peak
9		17235.000	41.86	5.25	47.11	-21.09	68.20	100	10	Peak

Note:

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.

6. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

Appendix A : Test Setup Photograph

Refer to “2412TW0107-UT” file.

Appendix B : EUT Photograph

Refer to “2412TW0107-UE” file.

Appendix C : Internal Photograph

Refer to “2412TW0107-UI” file.

The End