

EMC MEASUREMENT REPORT

Applicant: HAN Networks Co., Ltd.

Address: 101-A16, 1st Floor, Building 3, No.9 compound, Yongfeng Road, Haidian District, Beijing, P.R. China

Product: HAN Access Point

Model No.: AP511

Brand Name: HAN NETWORKS, HANNETWORKS

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure: ANSI C63.4 - 2014

Result: Complies

Received Date: 2024-06-04

Test Date: 2024-06-05 ~ 2024-08-09

Reviewed By:

Vincent Yu

Approved By:

Robin Wu



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 C63.4-2014. 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 (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2408RSU052-U8	V01	Initial Report	2024-09-29	Valid
2408RSU052-U8	V02	Place the test setup photos and EUT photos in separate documents. Please refer to the referenced documents in Appendix A and Appendix B for details.	2024-10-16	Valid

Note: This report is a copy report based on MRT original report (Report No.: 2404RSU054-U8). Only applicant & manufacture information and product information (name, model and brand name) has changed in this report.

CONTENTS

Description	Page
1. General Information	4
1.1. Applicant.....	4
1.2. Manufacturer	4
1.3. Testing Facility.....	4
1.4. Product Information	5
2. Test Configuration	6
2.1. Test Mode	6
2.2. Configuration of Tested System.....	6
2.3. EMI Suppression Device(s)/Modifications	8
3. Measuring Instrument	9
4. Decision Rules and Measurement Uncertainty.....	10
4.1. Decision Rules	10
4.2. Measurement Uncertainty	10
5. Test Result	11
5.1. Summary	11
5.2. Conducted Emission	12
5.2.1. Test Limit	12
5.2.2. Test Setup	12
5.2.3. Test Result.....	13
5.3. Radiated Emission	31
5.3.1. Test Limit	31
5.3.2. Test Setup	31
5.3.3. Test Result.....	33
Appendix A - Test Setup Photograph	53
Appendix B - EUT Photograph	54

1. General Information

1.1. Applicant

HAN Networks Co., Ltd.

101-A16, 1st Floor, Building 3, No.9 compound, Yongfeng Road, Haidian District, Beijing, P.R. China

1.2. Manufacturer

HAN Networks Co., Ltd.

101-A16, 1st Floor, Building 3, No.9 compound, Yongfeng Road, Haidian District, Beijing, P.R. China

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284
	CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261
	ISED: TW3261

1.4. Product Information

Product Name	HAN Access Point
Model No.	AP511
EUT Identification No.	20240604Sample#01 (Mode 1) 20240805Sample#09 (Mode 2) 20240604Sample#02 (Mode 3) 20240604Sample#03 (Mode 4&5)
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Zigbee Specification	802.15.4
Bluetooth Specification	V5.4 Single Mode
Power Type	AC Adapter Input or PoE Input
Operating Environment	Indoor Use
Accessories	
AC Adapter	Model: ADP-50GR B Input: 100-240V ~ 50/60Hz, 1.3A Output: 48.0V, 1.042A, 50.1W MAX
PoE Injector	Model: POE60U-1BT-X (ALE P/N: POE60U-1BT-X-R) Input: 100-240V ~ 1.5A, 50/60Hz Output: 56.0V, 0.535A, 30W PIN 3, 6+ PIN 1, 2 Return Output: 56.0V, 0.535A, 30W PIN 4, 5+ PIN 7, 8 Return
Remarks:	
1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	
2. AC Adapter and PoE Injector are not sold with Product.	

2. Test Configuration

2.1. Test Mode

Mode 1: AP511 powered by adapter + Ethernet port connect to computer via LAN cable + Connect to mobile phone via 2.4G/5G/6G Wi-Fi + Connect to mobile phone via BLE + Plug USB flash and make it reading/writing.

Mode 2: AP511 powered by PoE and connect to notebook via LAN cable + Connect to mobile phone via 2.4G/5G/6G Wi-Fi + Connect to signal generator via Zigbee + Plug USB flash and make it reading/writing.

Mode 3: AP511 powered by adapter + Make it in 2.4G Wi-Fi + BLE receiving mode.

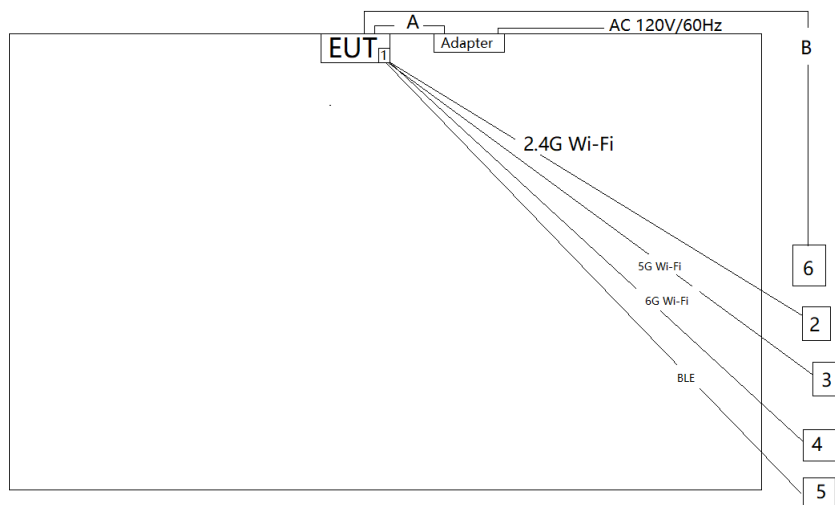
Mode 4: AP511 powered by adapter + Make it in 5G Wi-Fi + Zigbee receiving mode.

Mode 5: AP511 powered by adapter + Make it in 6G Wi-Fi receiving mode.

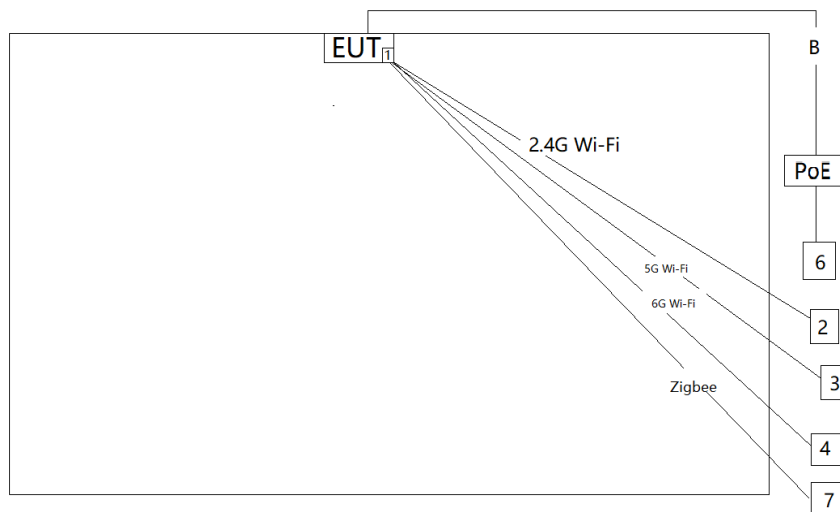
2.2. Configuration of Tested System

The measurement procedures and appropriate EUT setup described in the ANSI C63.4-2014 was used in the measurement.

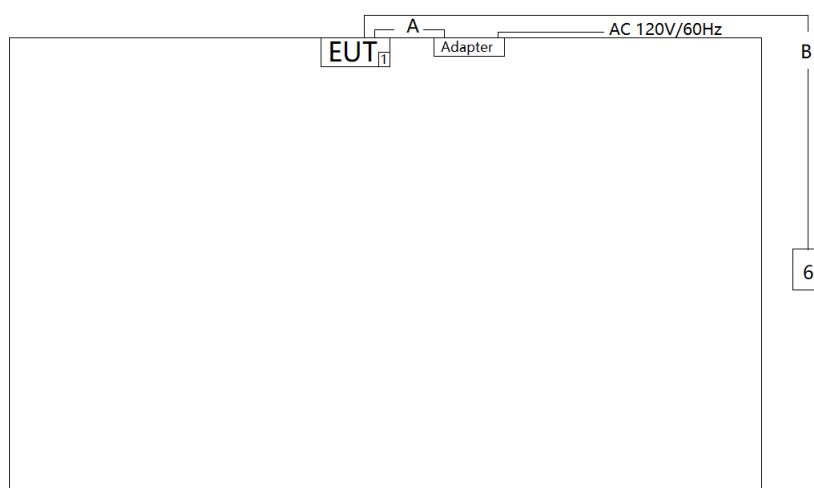
Mode 1



Mode 2



Mode 3 ~ 5



Cable Type		Cable Spec.	Length
A	DC Power Cable	Shielding	1.6m
B	LAN Cable	Non-Shielding, Cat 6	>10.0m
No.	Product	Manufacturer	Model No.
1	USB Flash	Samsung	64G
2	Mobile Phone	Apple	iPhone 6S
3	Mobile Phone	Apple	iPhone 13
4	Mobile Phone	VIVO	X90 Pro
5	Mobile Phone	OPPO	X9009
6	Computer	HP	ZHAN 66
7	Signal Generator	R&S	SMU200A

2.3. EMI Suppression Device(s)/Modifications

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

3. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2024-12-17	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2025-05-15	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2024-09-27	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2024-09-27	WZ-SR2

Software	Version	Function
EMI V3	V 3.0.0	EMI Test Software
e3	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & turntable
Controller_MF 7802	1.02	RE Antenna & turntable

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. 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 Measurement	
The maximum measurement uncertainty is evaluated as:	
	9kHz~150kHz: 3.58dB
	150kHz~30MHz: 3.20dB
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Horizontal:	30MHz~200MHz: 3.79dB
	200MHz~1GHz: 3.91dB
	1GHz~40GHz: 4.99dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.21dB
	1GHz~40GHz: 4.90dB

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Result
15.107	Conducted Emission	Pass
15.109	Radiated Emission	Pass

5.2. Conducted Emission

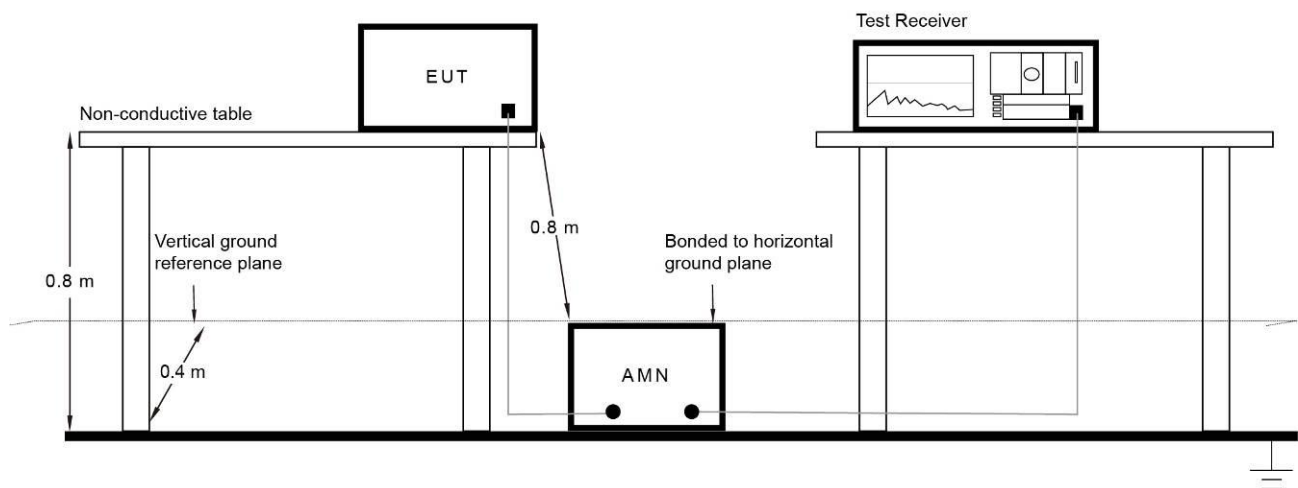
5.2.1. Test Limit

FCC Part 15.107 Class B Limits		
Frequency (MHz)	QP (dBμV)	AV (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.

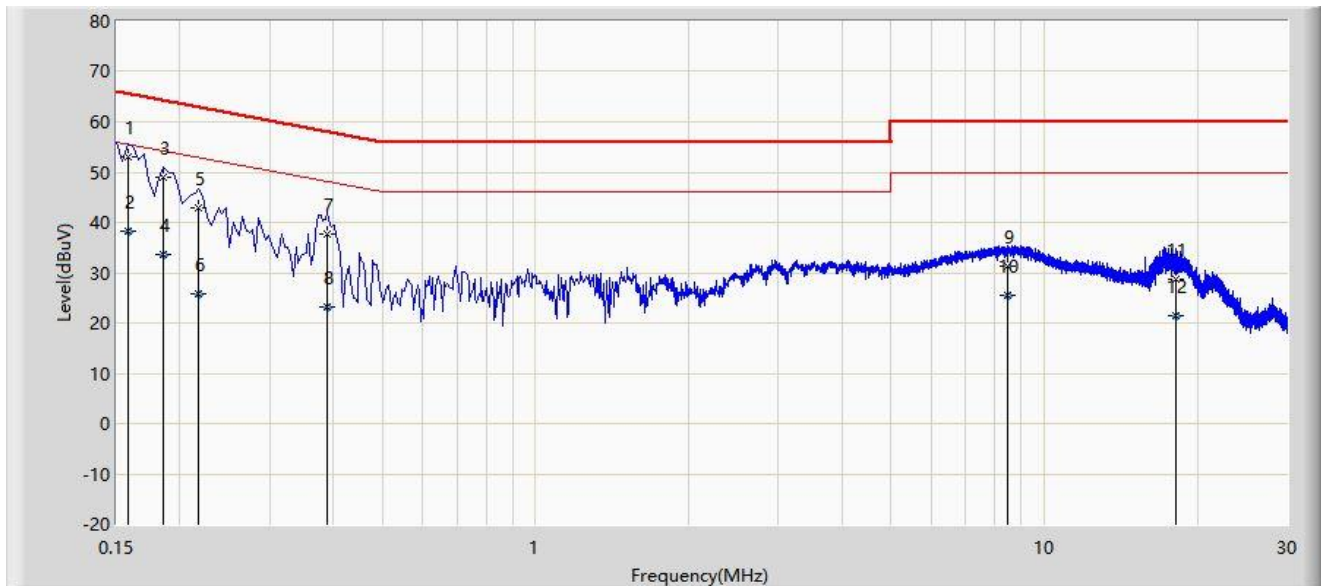
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5 MHz.

5.2.2. Test Setup



5.2.3. Test Result

Site: WZ-SR2	Test Date: 2024-06-05
Temperature: 25°C	Humidity: 46.6%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: David Lv
Probe: ENV216_101683_Filter Off_C	Polarity: Line
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1, Power Port	



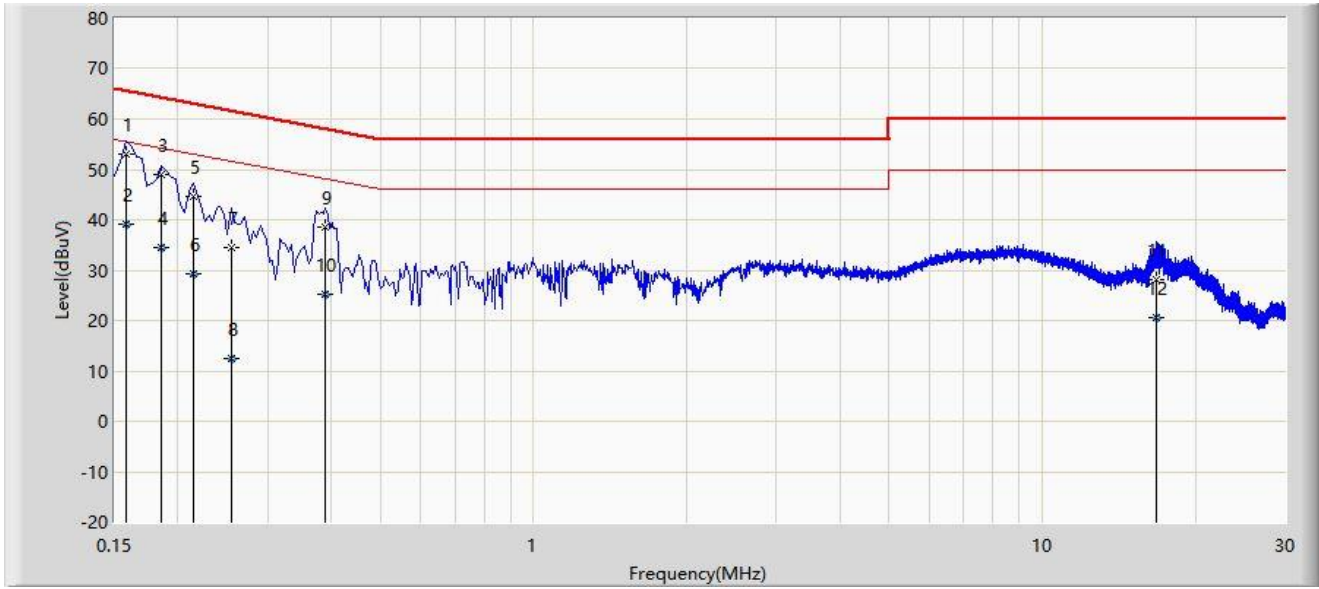
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.158	52.940	43.122	-12.628	65.568	9.819	QP
2		0.158	38.347	28.528	-17.222	55.568	9.819	AV
3		0.186	48.855	39.039	-15.358	64.213	9.816	QP
4		0.186	33.659	23.843	-20.554	54.213	9.816	AV
5		0.218	42.766	32.945	-20.128	62.895	9.822	QP
6		0.218	25.784	15.962	-27.111	52.895	9.822	AV
7		0.390	37.600	27.720	-20.464	58.064	9.880	QP
8		0.390	23.326	13.446	-24.738	48.064	9.880	AV
9		8.466	31.435	21.131	-28.565	60.000	10.304	QP
10		8.466	25.525	15.221	-24.475	50.000	10.304	AV
11		18.182	28.579	17.733	-31.421	60.000	10.846	QP
12		18.182	21.391	10.545	-28.609	50.000	10.846	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Test Date: 2024-06-05
Temperature: 25°C	Humidity: 46.6%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: David Lv
Probe: ENV216_101683_Filter Off_C	Polarity: Neutral
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1, Power Port	



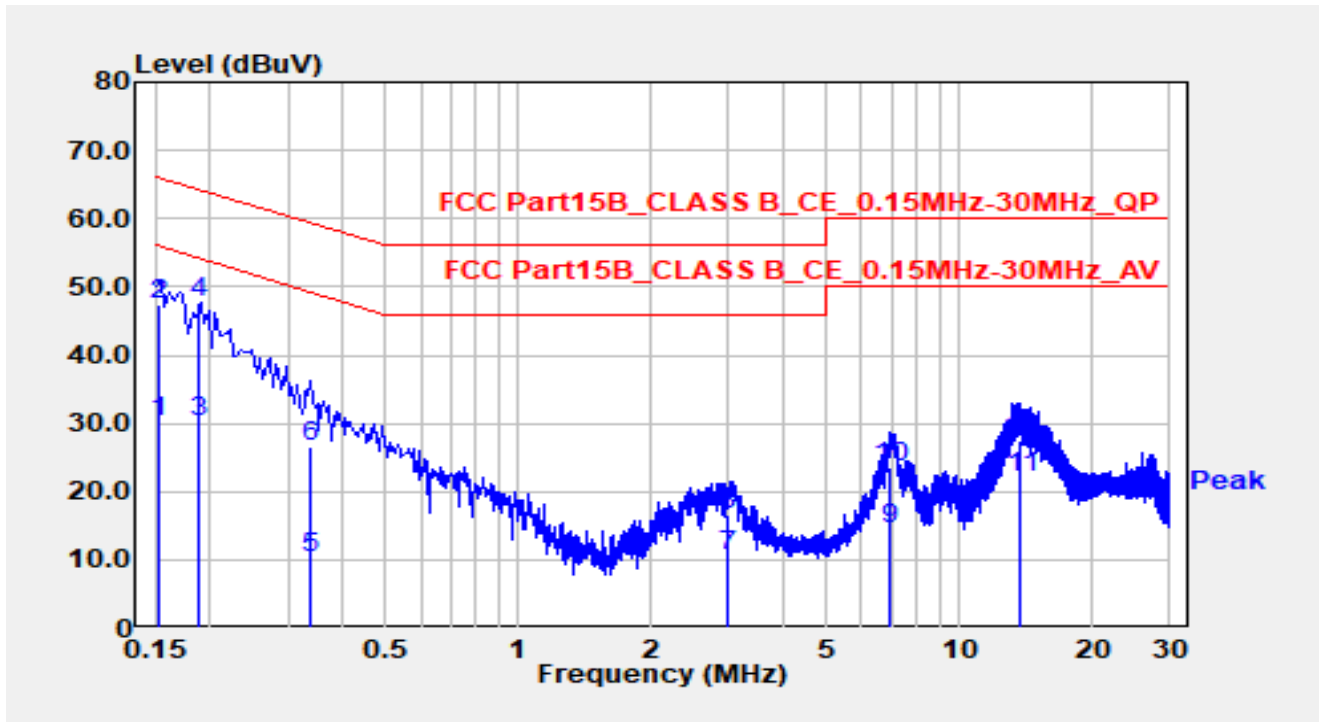
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.158	52.908	42.784	-12.660	65.568	10.125	QP
2		0.158	39.009	28.885	-16.559	55.568	10.125	AV
3		0.186	48.864	38.754	-15.349	64.213	10.110	QP
4		0.186	34.573	24.462	-19.641	54.213	10.110	AV
5		0.214	44.577	34.474	-18.472	63.049	10.102	QP
6		0.214	29.212	19.109	-23.837	53.049	10.102	AV
7		0.254	34.348	24.254	-27.277	61.625	10.094	QP
8		0.254	12.555	2.461	-39.070	51.625	10.094	AV
9		0.390	38.475	28.343	-19.589	58.064	10.132	QP
10		0.390	25.335	15.203	-22.729	48.064	10.132	AV
11		16.794	28.035	17.068	-31.965	60.000	10.967	QP
12		16.794	20.452	9.485	-29.548	50.000	10.967	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site	WZ-SR2	Test Date	2024-08-08
Test Engineer	Linda Wei	Temp./Humidity	25.8°C/53.6%
Factor	ENV216_101683_L1_Filter Off	Polarity	Line
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 2, Power Port		



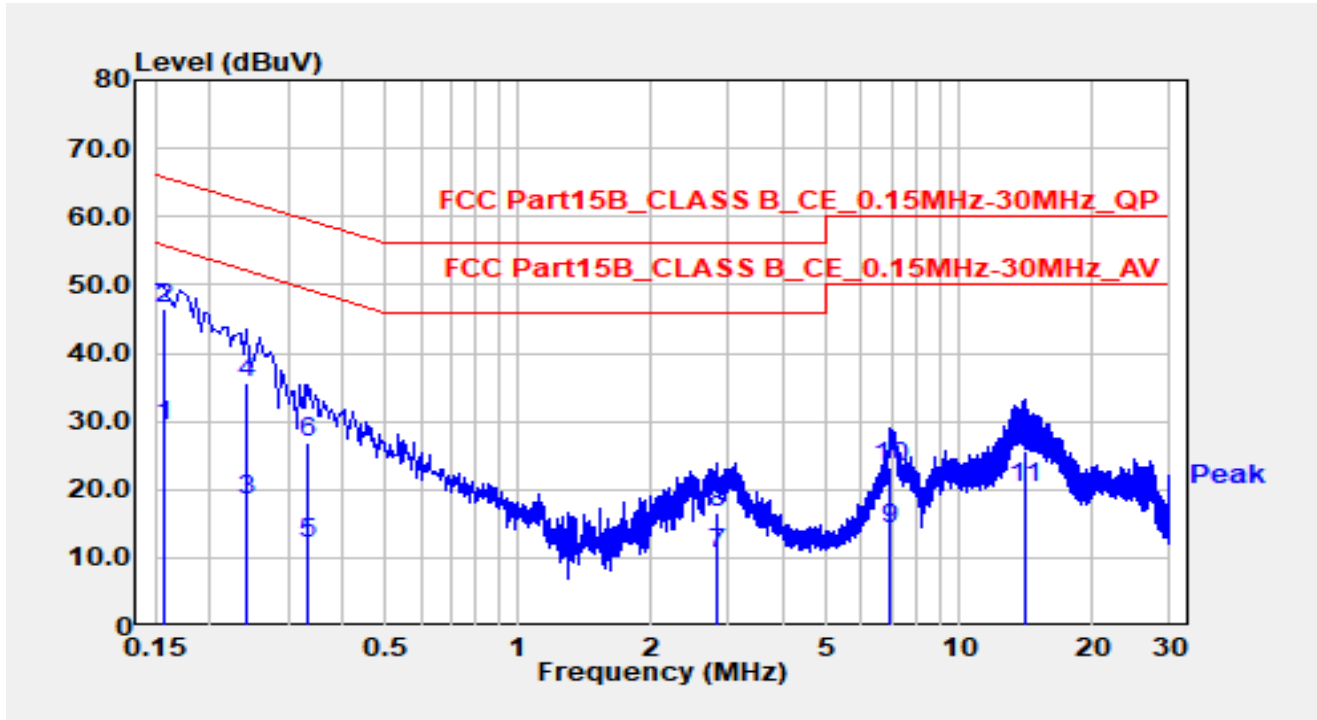
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.153	20.60	9.66	30.26	-25.58	55.84	Average
2		0.153	37.80	9.66	47.46	-18.38	65.84	QP
3		0.189	20.60	9.66	30.26	-23.82	54.08	Average
4	*	0.189	37.90	9.66	47.56	-16.52	64.08	QP
5		0.337	0.60	9.72	10.32	-38.96	49.28	Average
6		0.337	16.90	9.72	26.62	-32.66	59.28	QP
7		3.000	0.60	10.05	10.65	-35.36	46.00	Average
8		3.000	6.70	10.05	16.75	-39.26	56.00	QP
9		6.980	4.40	10.14	14.54	-35.46	50.00	Average
10		6.980	13.30	10.14	23.44	-36.56	60.00	QP
11		13.790	11.70	10.36	22.06	-27.94	50.00	Average
12		13.790	17.10	10.36	27.46	-32.54	60.00	QP

Notes:

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

3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).

Site	WZ-SR2	Test Date	2024-08-08
Test Engineer	Linda Wei	Temp./Humidity	25.8°C/53.6%
Factor	ENV216_101683_N_Filter Off	Polarity	Neutral
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 2, Power Port		



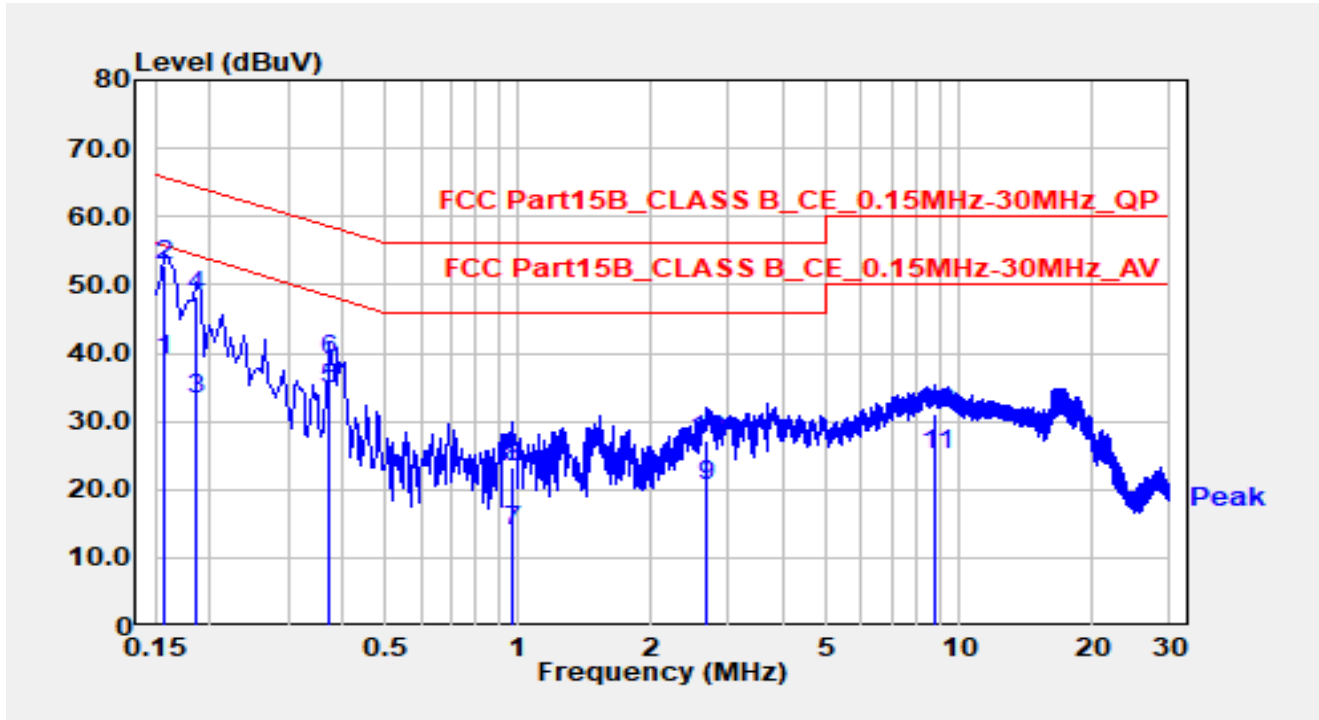
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.157	19.70	9.65	29.35	-26.27	55.62	Average
2	*	0.157	36.90	9.65	46.55	-19.07	65.62	QP
3		0.241	8.70	9.67	18.37	-33.69	52.06	Average
4		0.241	26.10	9.67	35.77	-26.29	62.06	QP
5		0.333	2.30	9.70	12.00	-37.37	49.38	Average
6		0.333	17.10	9.70	26.80	-32.57	59.38	QP
7		2.830	0.60	10.03	10.63	-35.37	46.00	Average
8		2.830	6.70	10.03	16.73	-39.27	56.00	QP
9		6.980	3.90	10.14	14.04	-35.96	50.00	Average
10		6.980	13.20	10.14	23.34	-36.66	60.00	QP
11		14.030	9.80	10.39	20.19	-29.81	50.00	Average
12		14.030	15.20	10.39	25.59	-34.41	60.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3, Power Port		



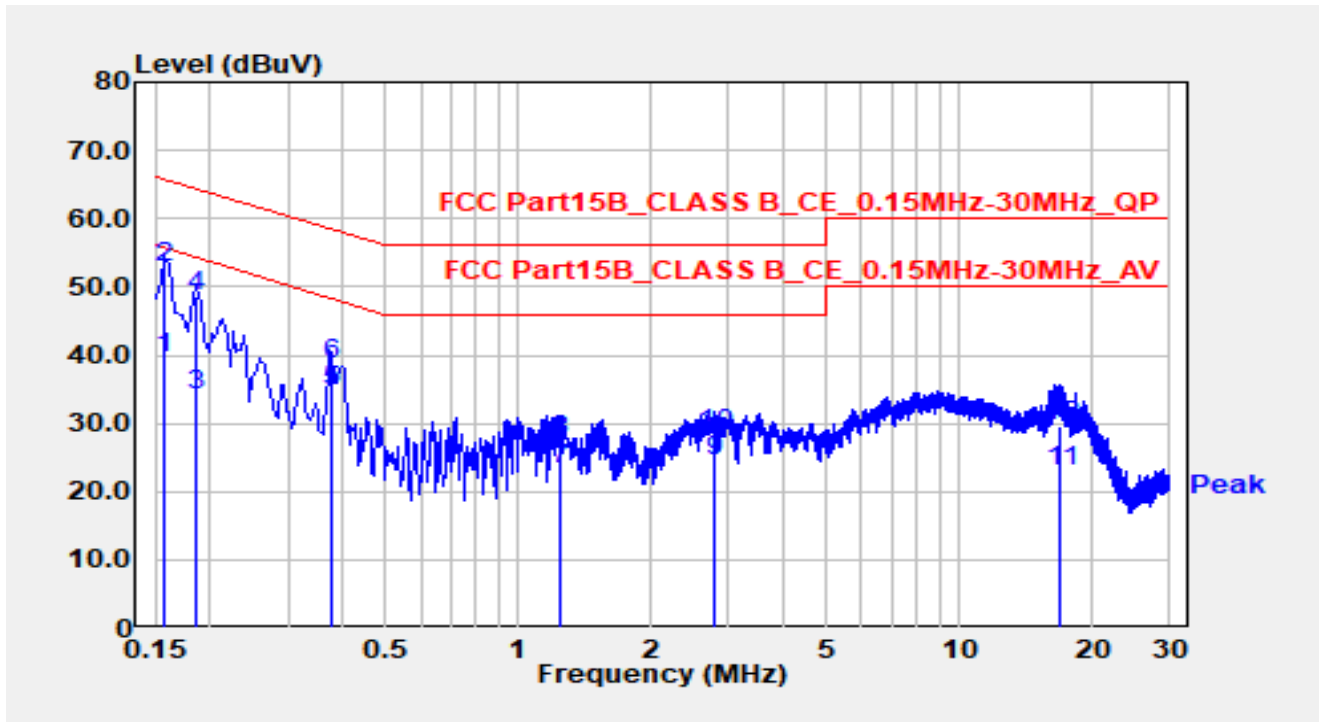
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	29.00	9.82	38.82	-16.75	55.57	Average
2	*	0.158	43.10	9.82	52.92	-12.65	65.57	QP
3		0.186	23.50	9.82	33.32	-20.90	54.21	Average
4		0.186	38.60	9.82	48.42	-15.80	64.21	QP
5		0.374	24.70	9.87	34.57	-13.84	48.41	Average
6		0.374	29.10	9.87	38.97	-19.44	58.41	QP
7		0.966	3.80	10.10	13.90	-32.10	46.00	Average
8		0.966	13.10	10.10	23.20	-32.80	56.00	QP
9		2.670	10.30	10.15	20.45	-25.55	46.00	Average
10		2.670	16.90	10.15	27.05	-28.95	56.00	QP
11		8.830	14.70	10.32	25.02	-24.98	50.00	Average
12		8.830	20.70	10.32	31.02	-28.98	60.00	QP

Notes:

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

3. $\text{Measurement(dB}\mu\text{V)} = \text{Reading(dB}\mu\text{V)} + \text{C.F (dB)}.$

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3, Power Port		



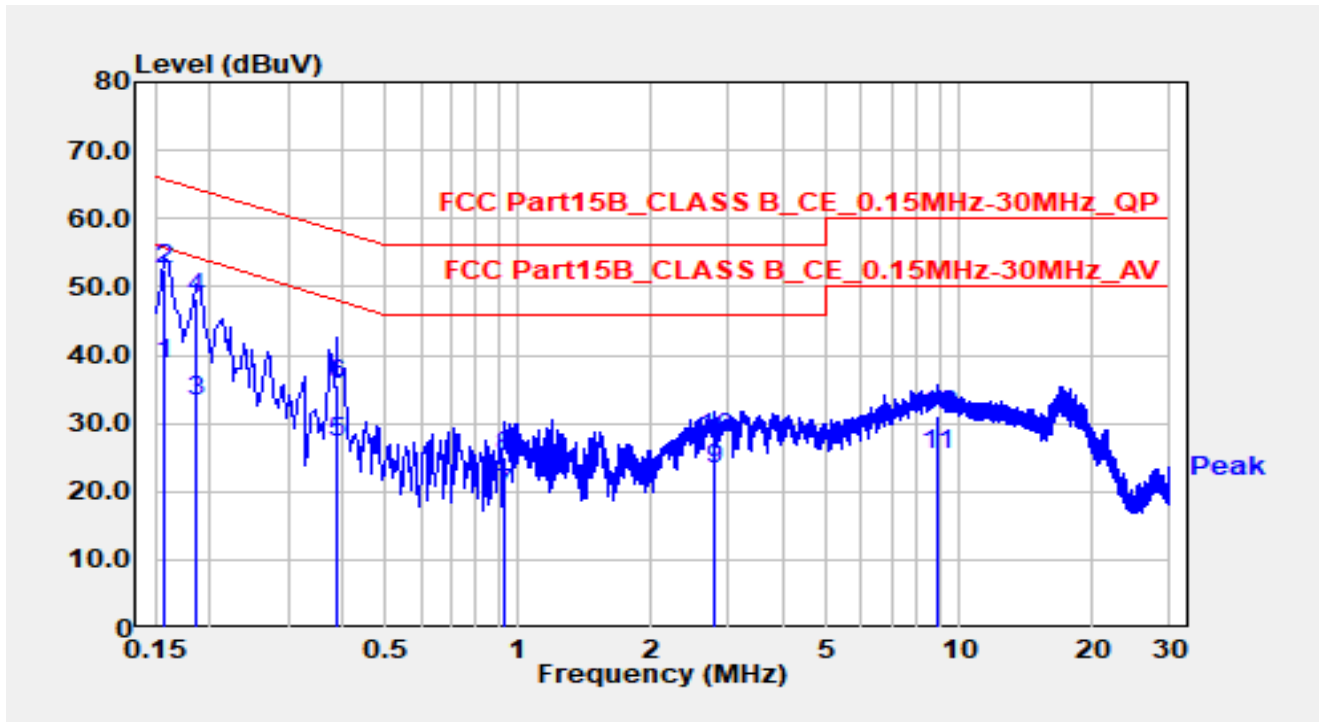
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	29.30	10.12	39.42	-16.14	55.57	Average
2	*	0.158	42.70	10.12	52.82	-12.74	65.57	QP
3		0.186	24.00	10.11	34.11	-20.10	54.21	Average
4		0.186	38.50	10.11	48.61	-15.60	64.21	QP
5		0.378	24.70	10.13	34.83	-13.49	48.32	Average
6		0.378	28.40	10.13	38.53	-19.79	58.32	QP
7		1.250	12.90	10.38	23.28	-22.72	46.00	Average
8		1.250	17.10	10.38	27.48	-28.52	56.00	QP
9		2.770	13.90	10.40	24.30	-21.70	46.00	Average
10		2.770	17.90	10.40	28.30	-27.70	56.00	QP
11		16.990	12.00	10.98	22.98	-27.02	50.00	Average
12		16.990	18.60	10.98	29.58	-30.42	60.00	QP

Notes:

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

3. Measurement(dBμV) = Reading(dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4, Power Port		



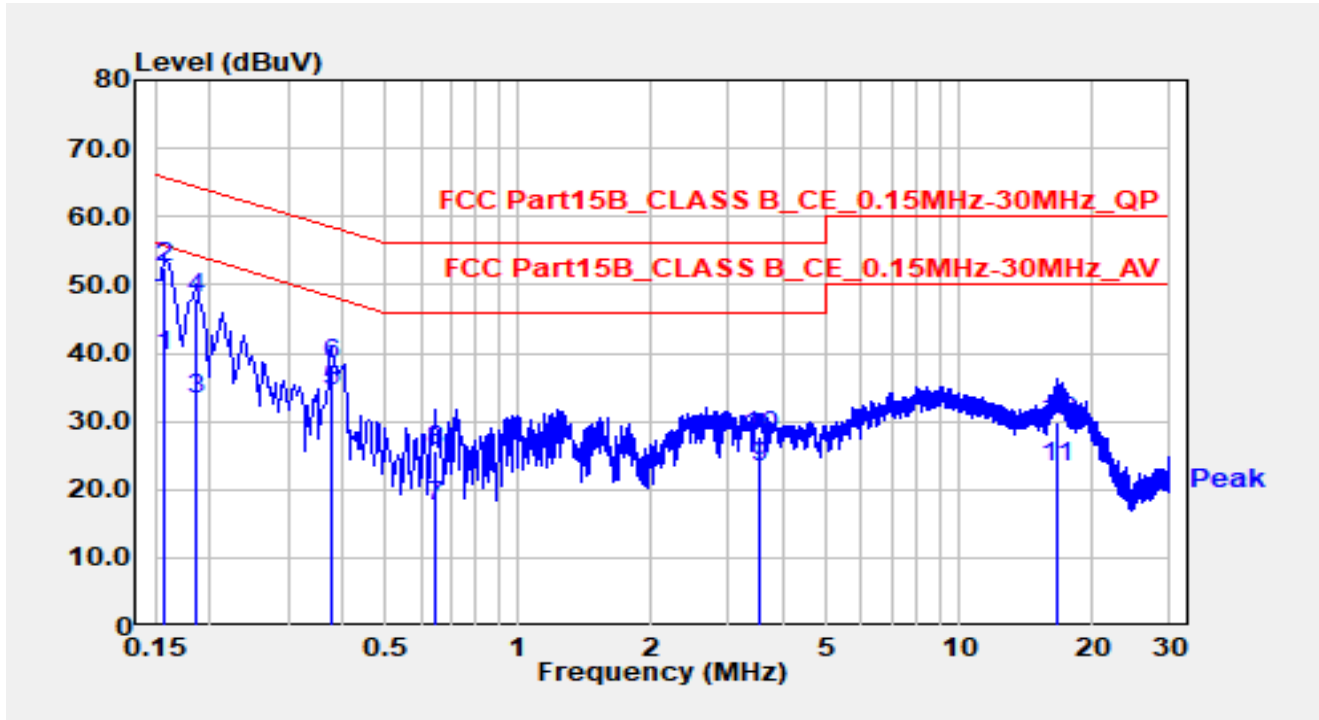
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	28.80	9.82	38.62	-16.95	55.57	Average
2	*	0.158	42.80	9.82	52.62	-12.95	65.57	QP
3		0.186	23.30	9.82	33.12	-21.10	54.21	Average
4		0.186	38.60	9.82	48.42	-15.80	64.21	QP
5		0.386	17.20	9.88	27.08	-21.07	48.15	Average
6		0.386	25.80	9.88	35.68	-22.47	58.15	QP
7		0.926	9.50	10.09	19.59	-26.41	46.00	Average
8		0.926	15.00	10.09	25.09	-30.91	56.00	QP
9		2.770	13.20	10.15	23.35	-22.65	46.00	Average
10		2.770	17.50	10.15	27.65	-28.35	56.00	QP
11		8.920	15.00	10.32	25.32	-24.68	50.00	Average
12		8.920	20.70	10.32	31.02	-28.98	60.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement(dBμV) = Reading(dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4, Power Port		



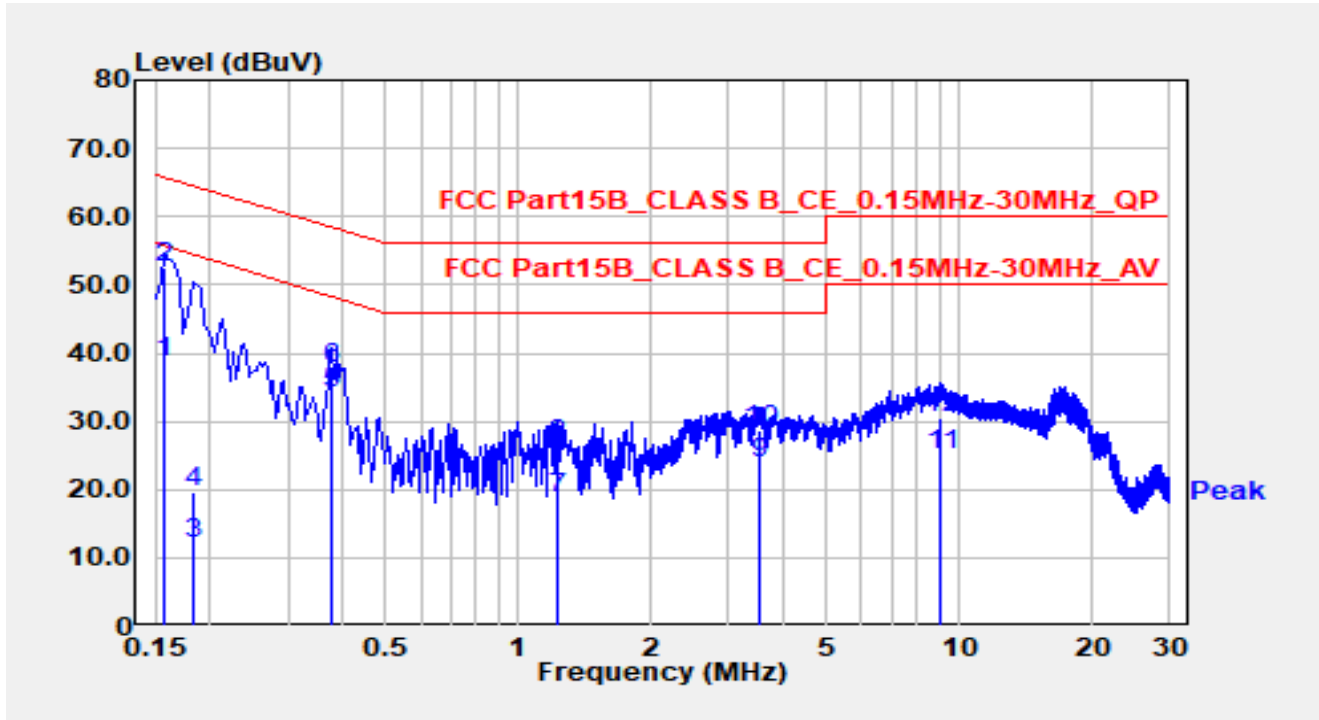
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	29.30	10.12	39.42	-16.14	55.57	Average
2	*	0.158	42.50	10.12	52.62	-12.94	65.57	QP
3		0.186	23.20	10.11	33.31	-20.90	54.21	Average
4		0.186	37.90	10.11	48.01	-16.20	64.21	QP
5		0.378	24.40	10.13	34.53	-13.79	48.32	Average
6		0.378	28.10	10.13	38.23	-20.09	58.32	QP
7		0.646	7.30	10.23	17.53	-28.47	46.00	Average
8		0.646	15.40	10.23	25.63	-30.37	56.00	QP
9		3.510	12.70	10.42	23.12	-22.88	46.00	Average
10		3.510	17.30	10.42	27.72	-28.28	56.00	QP
11		16.680	12.20	10.96	23.16	-26.84	50.00	Average
12		16.680	18.90	10.96	29.86	-30.14	60.00	QP

Notes:

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

3. Measurement(dBμV) = Reading(dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5, Power Port		



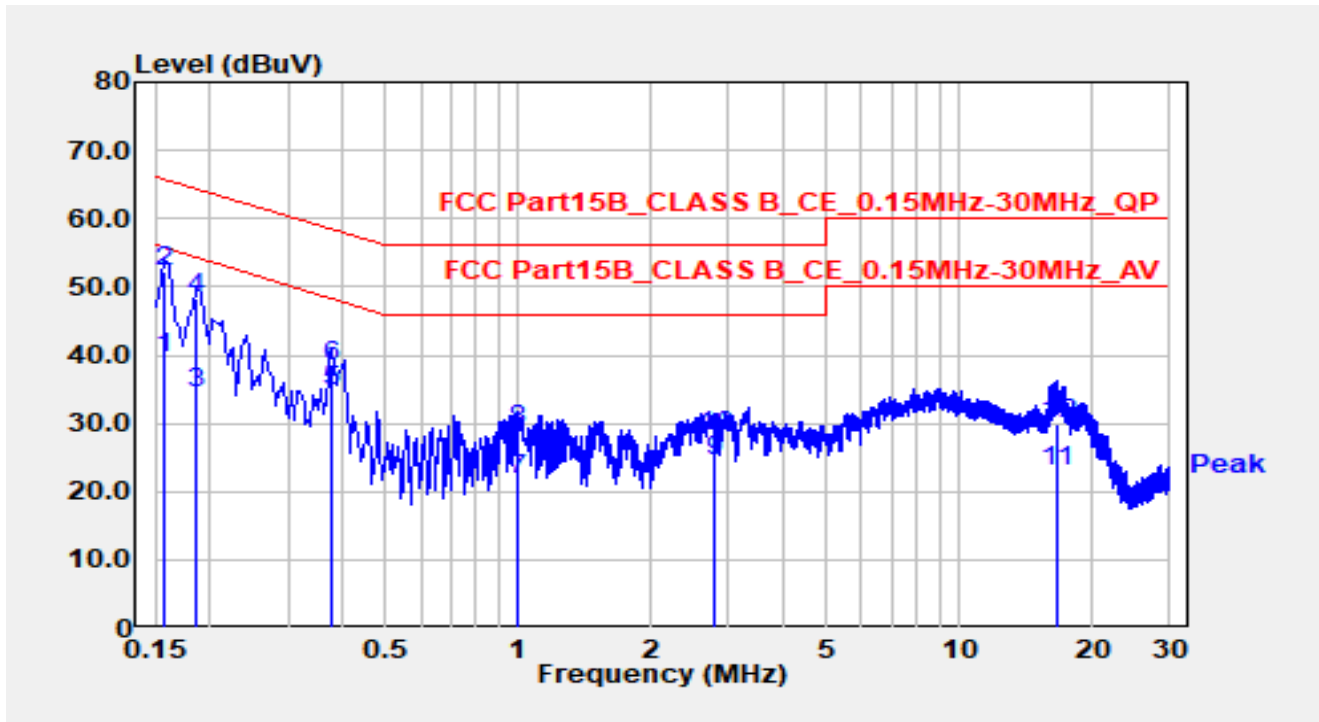
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	28.70	9.82	38.52	-17.05	55.57	Average
2	*	0.158	42.60	9.82	52.42	-13.15	65.57	QP
3		0.182	2.20	9.82	12.02	-42.38	54.39	Average
4		0.182	9.90	9.82	19.72	-44.68	64.39	QP
5		0.378	24.10	9.87	33.97	-14.35	48.32	Average
6		0.378	27.90	9.87	37.77	-20.55	58.32	QP
7		1.230	8.60	10.12	18.72	-27.28	46.00	Average
8		1.230	16.40	10.12	26.52	-29.48	56.00	QP
9		3.510	13.70	10.17	23.87	-22.13	46.00	Average
10		3.510	18.40	10.17	28.57	-27.43	56.00	QP
11		9.080	14.60	10.33	24.93	-25.07	50.00	Average
12		9.080	20.20	10.33	30.53	-29.47	60.00	QP

Notes:

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

3. Measurement(dBμV) = Reading(dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2024-07-19
Test Engineer	Linda Wei	Temp./Humidity	25.8°C /67.4%
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5, Power Port		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.158	29.30	10.12	39.42	-16.14	55.57	Average
2	*	0.158	42.10	10.12	52.22	-13.34	65.57	QP
3		0.186	24.20	10.11	34.31	-19.90	54.21	Average
4		0.186	38.20	10.11	48.31	-15.90	64.21	QP
5		0.378	24.50	10.13	34.63	-13.69	48.32	Average
6		0.378	28.20	10.13	38.33	-19.99	58.32	QP
7		0.990	11.30	10.38	21.68	-24.32	46.00	Average
8		0.990	18.50	10.38	28.88	-27.12	56.00	QP
9		2.770	13.90	10.40	24.30	-21.70	46.00	Average
10		2.770	17.80	10.40	28.20	-27.80	56.00	QP
11		16.580	12.10	10.95	23.05	-26.95	50.00	Average
12		16.580	18.80	10.95	29.75	-30.25	60.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement(dBμV) = Reading(dBμV) + C.F (dB).

5.3. Radiated Emission

5.3.1. Test Limit

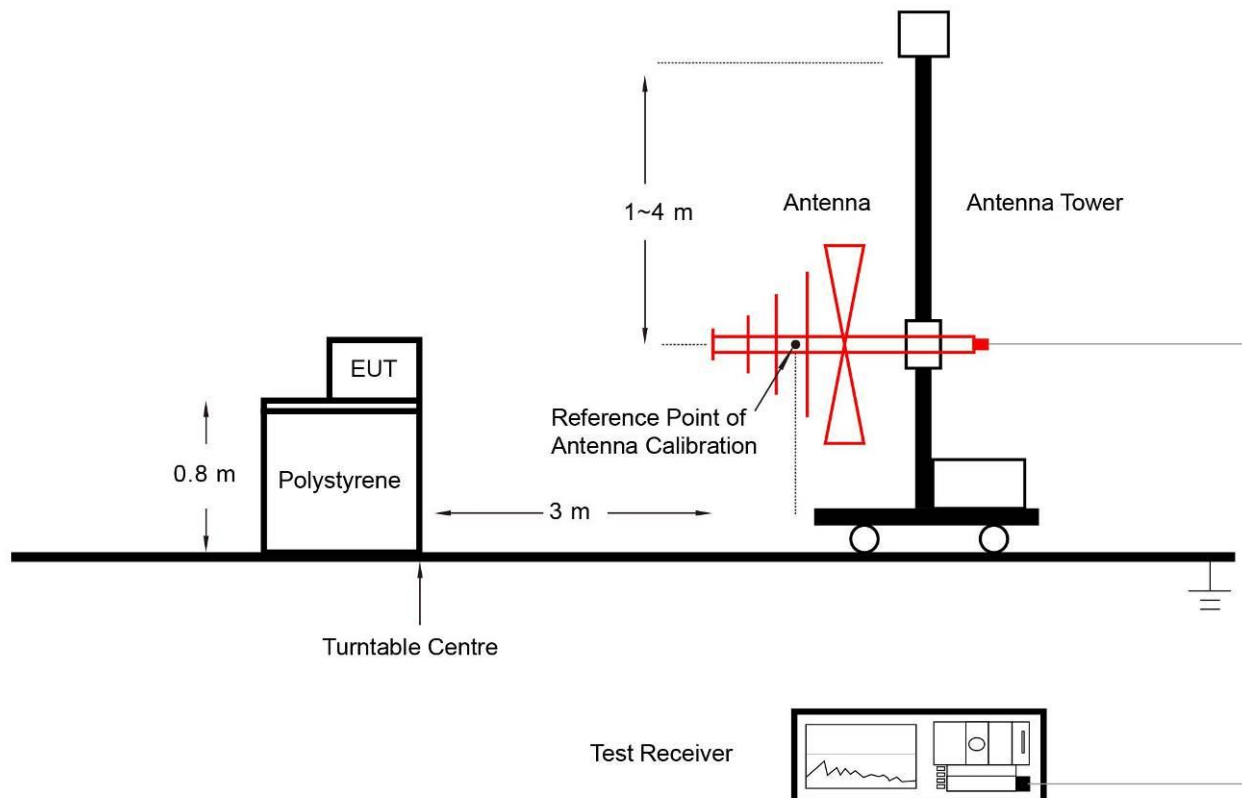
FCC Part 15.109 Class B Limits			
Frequency (MHz)	Distance (m)	Level (dB μ V/m)	Detector Function
30 - 88	3	40	Quasi-peak
88 - 216	3	43.5	Quasi-peak
216 - 960	3	46	Quasi-peak
960 - 1000	3	54	Quasi-peak
Above 1000	3	54	Average
		74	Peak

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

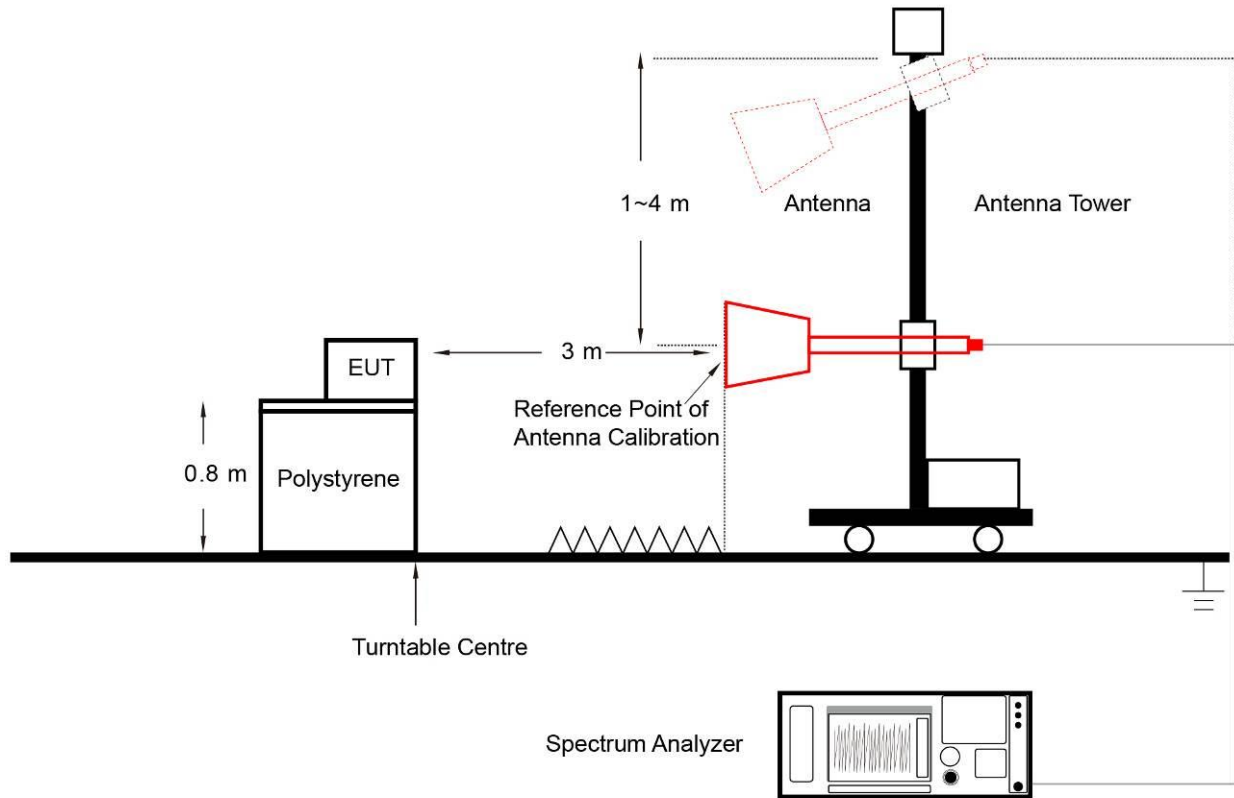
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

5.3.2. Test Setup

Below 1GHz Test Setup:

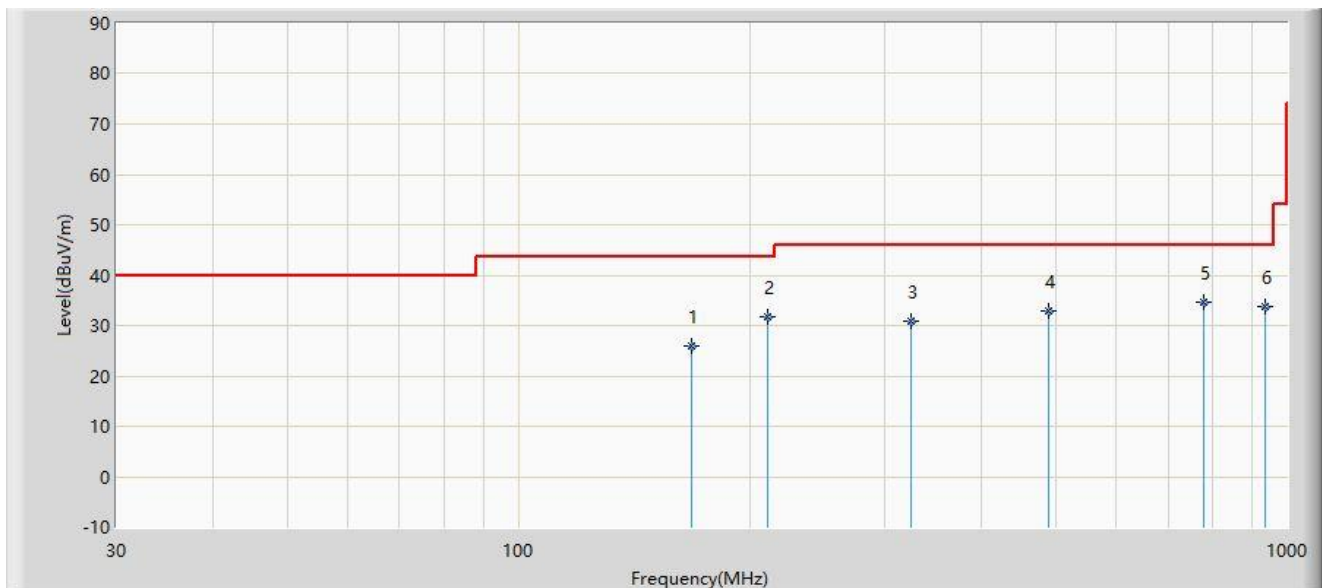


Above 1GHz Test Setup:



5.3.3. Test Result

Site: WZ-AC1	Test Date: 2024-06-25
Temperature: 26.3°C	Humidity: 51.2%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Dick Shen
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1	



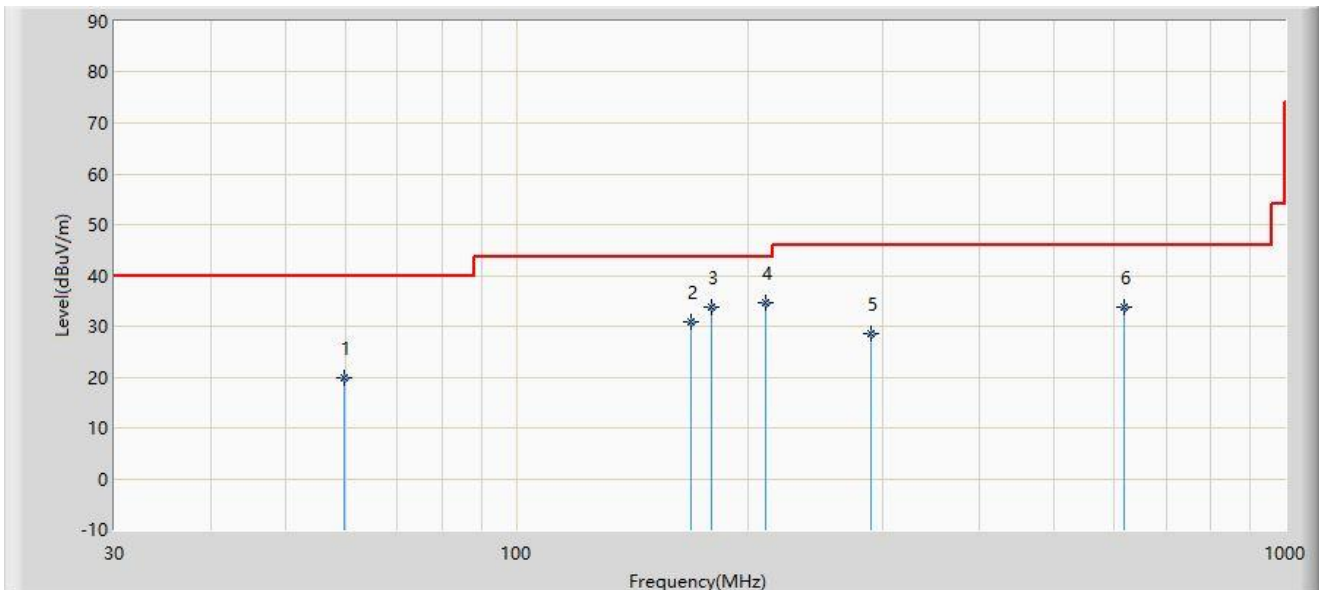
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		167.740	25.898	7.600	-17.602	43.500	18.299	QP
2		211.390	31.628	16.600	-11.872	43.500	15.029	QP
3		323.910	30.881	11.300	-15.119	46.000	19.582	QP
4		490.200	32.984	9.600	-13.016	46.000	23.384	QP
5	*	779.400	34.743	5.900	-11.257	46.000	28.843	QP
6		934.525	33.667	3.000	-12.333	46.000	30.667	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2024-06-25
Temperature: 26.3°C	Humidity: 51.2%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Dick Shen
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1	



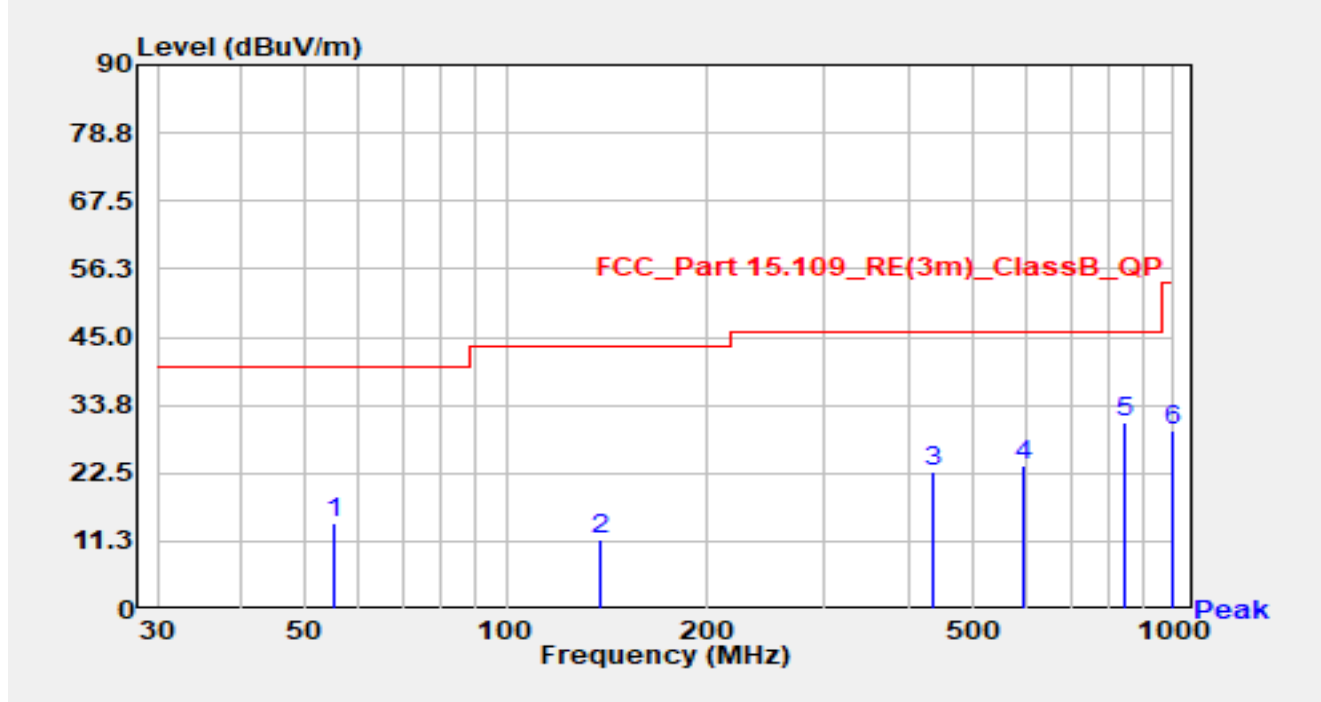
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		59.600	19.904	1.690	-20.096	40.000	18.215	QP
2		168.710	30.860	12.600	-12.640	43.500	18.261	QP
3		179.380	33.901	16.600	-9.599	43.500	17.301	QP
4	*	210.905	34.527	19.500	-8.973	43.500	15.027	QP
5		288.990	28.448	9.900	-17.552	46.000	18.548	QP
6		616.850	33.913	7.500	-12.087	46.000	26.413	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site	WZ-AC1	Test Date	2024-08-08
Test Engineer	Lucas Wang	Temp./Humidity	26.9°C /50.2%
Factor	VULB 9168_25-1000MHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	By POE
Test Mode	Test Mode 2		

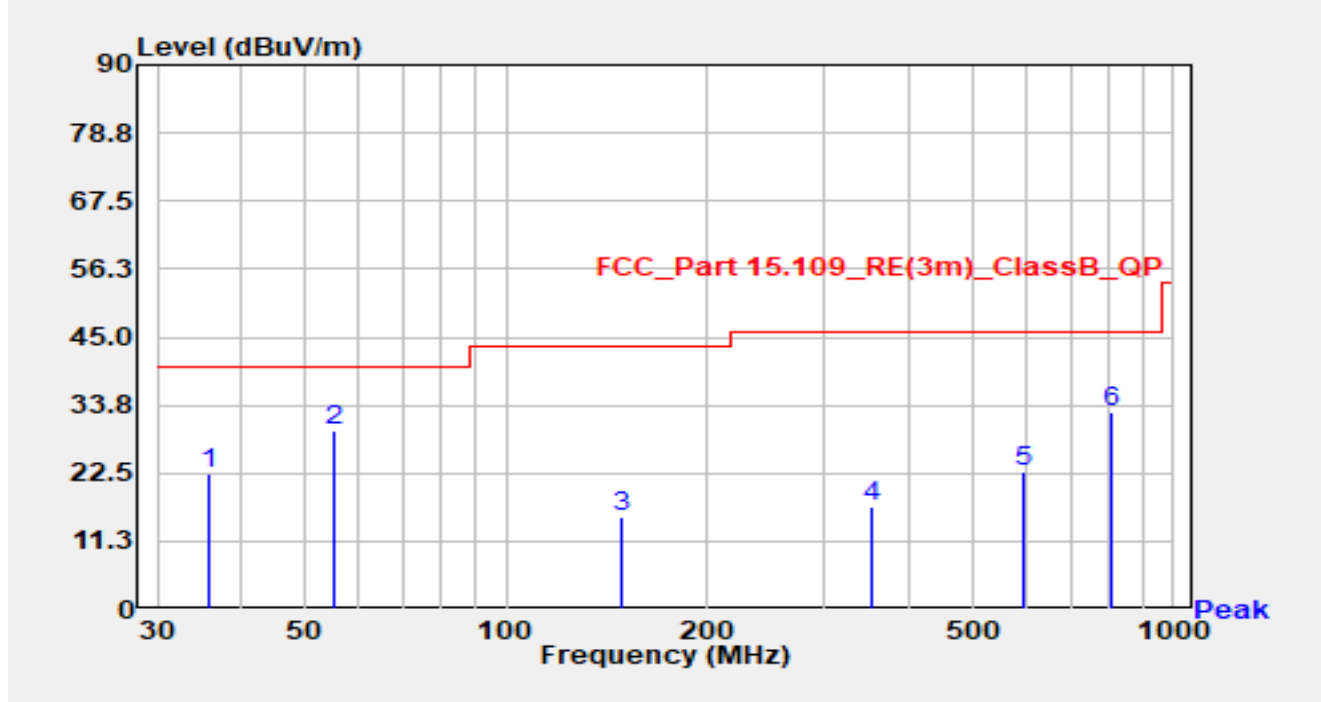


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		55.027	-4.20	18.52	14.32	-25.68	40.00	QP
2		138.072	-5.90	17.61	11.71	-31.79	43.50	QP
3		434.294	0.30	22.39	22.69	-23.31	46.00	QP
4		598.376	-2.10	25.93	23.83	-22.17	46.00	QP
5	*	845.532	1.10	29.69	30.79	-15.21	46.00	QP
6		998.423	-1.60	31.27	29.67	-24.33	54.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement (dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-08
Test Engineer	Lucas Wang	Temp./Humidity	26.9°C /50.2%
Factor	VULB 9168_25-1000MHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	By POE
Test Mode	Test Mode 2		

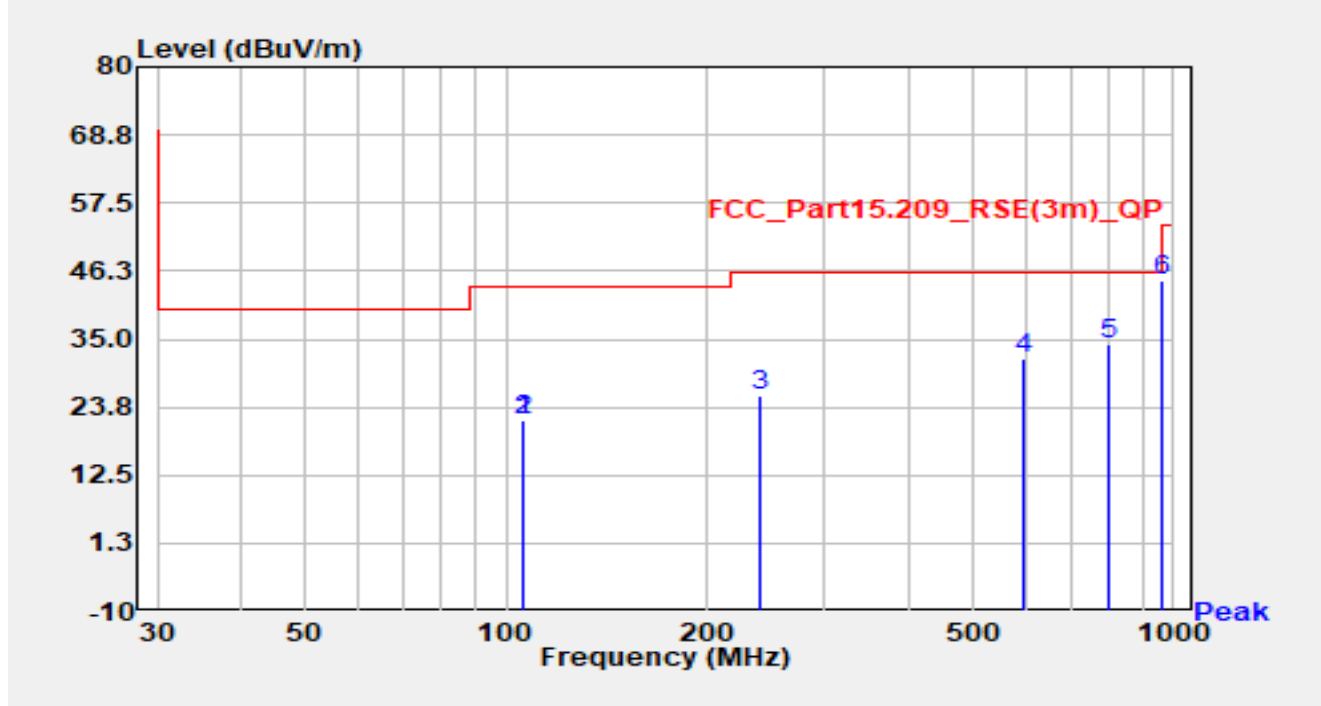


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		35.862	4.60	17.67	22.27	-17.73	40.00	QP
2	*	55.211	11.10	18.52	29.62	-10.38	40.00	QP
3		148.363	-2.90	18.17	15.27	-28.23	43.50	QP
4		353.005	-3.10	20.04	16.94	-29.06	46.00	QP
5		597.538	-3.20	25.89	22.69	-23.31	46.00	QP
6		803.757	3.20	29.44	32.64	-13.36	46.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement (dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3		

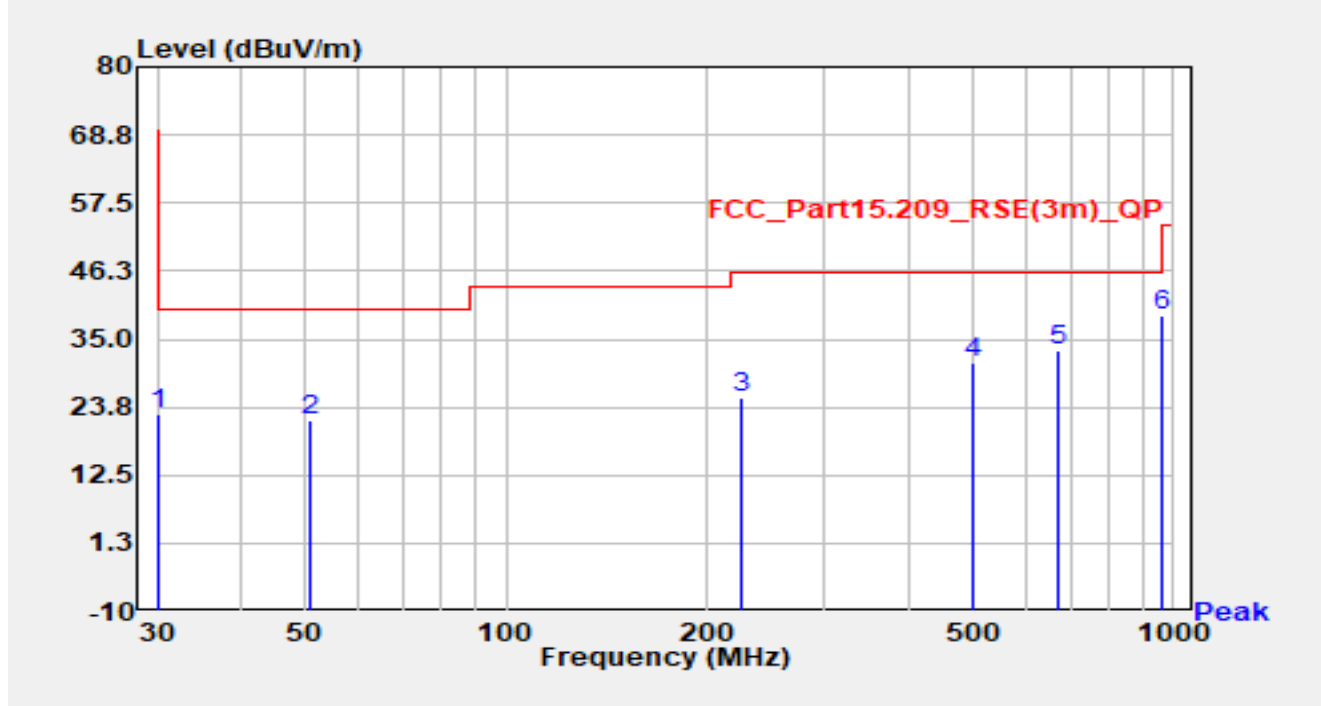


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		105.570	1.20	20.27	21.47	-18.53	40.00	QP
2		105.757	3.13	18.57	21.69	-21.81	43.50	QP
3		240.005	5.70	19.84	25.54	-20.46	46.00	QP
4		597.547	4.10	27.60	31.70	-14.30	46.00	QP
5		801.150	3.40	30.69	34.09	-11.91	46.00	QP
6	*	961.782	12.50	32.06	44.56	-9.44	54.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3		

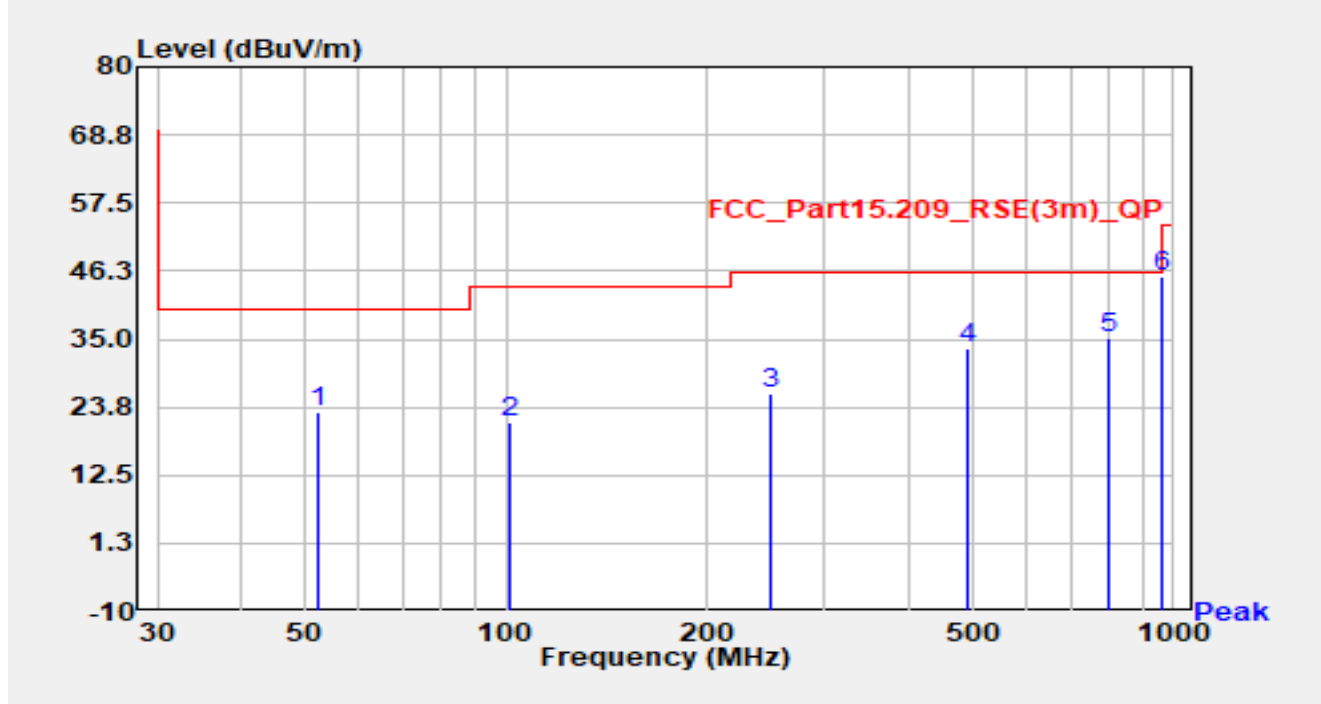


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		30.194	5.70	17.03	22.73	-17.27	40.00	QP
2		50.661	1.20	20.48	21.68	-18.32	40.00	QP
3		225.358	5.90	19.30	25.20	-20.80	46.00	QP
4		501.420	5.44	25.78	31.22	-14.78	46.00	QP
5	*	669.424	4.55	28.73	33.28	-12.72	46.00	QP
6		961.879	6.72	32.06	38.78	-15.22	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4		

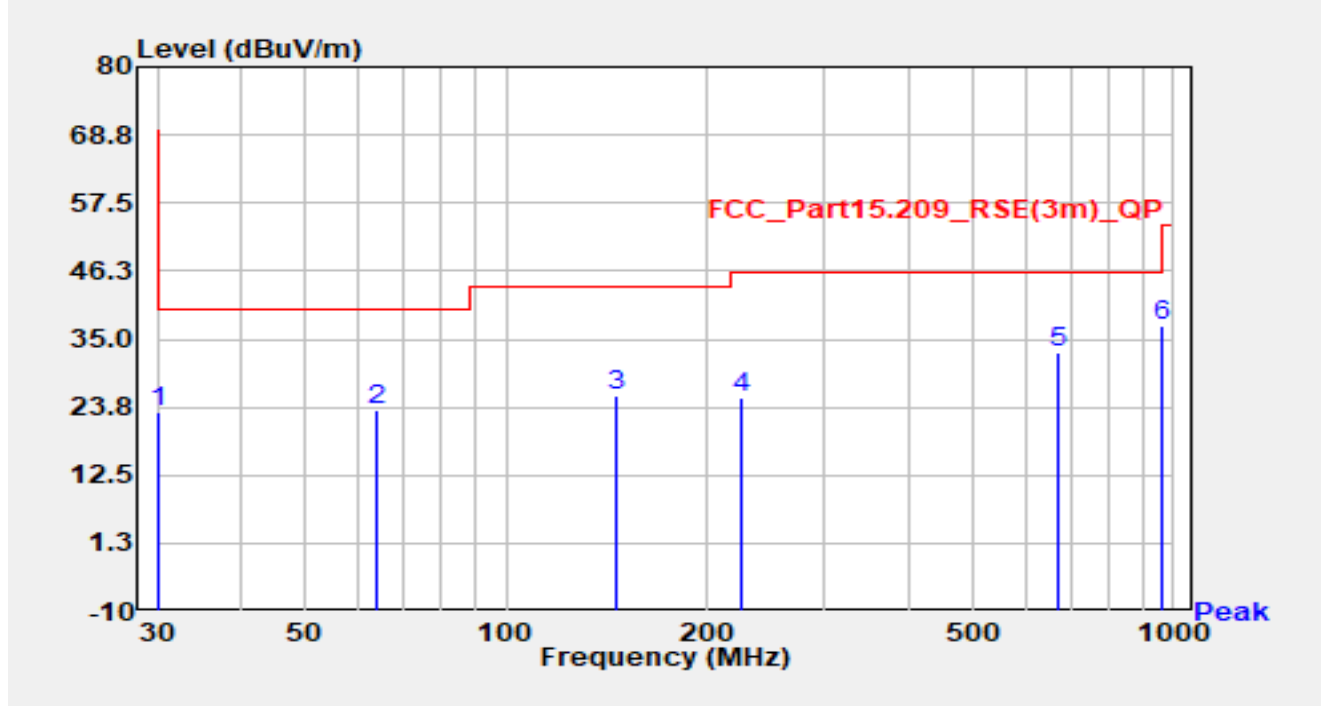


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		52.213	2.44	20.41	22.85	-17.15	40.00	QP
2		101.004	2.54	18.64	21.18	-22.32	43.50	QP
3		249.996	5.80	20.20	26.00	-20.00	46.00	QP
4		492.496	7.84	25.58	33.43	-12.57	46.00	QP
5		798.434	4.40	30.70	35.10	-10.90	46.00	QP
6	*	961.394	13.40	32.05	45.45	-8.55	54.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4		

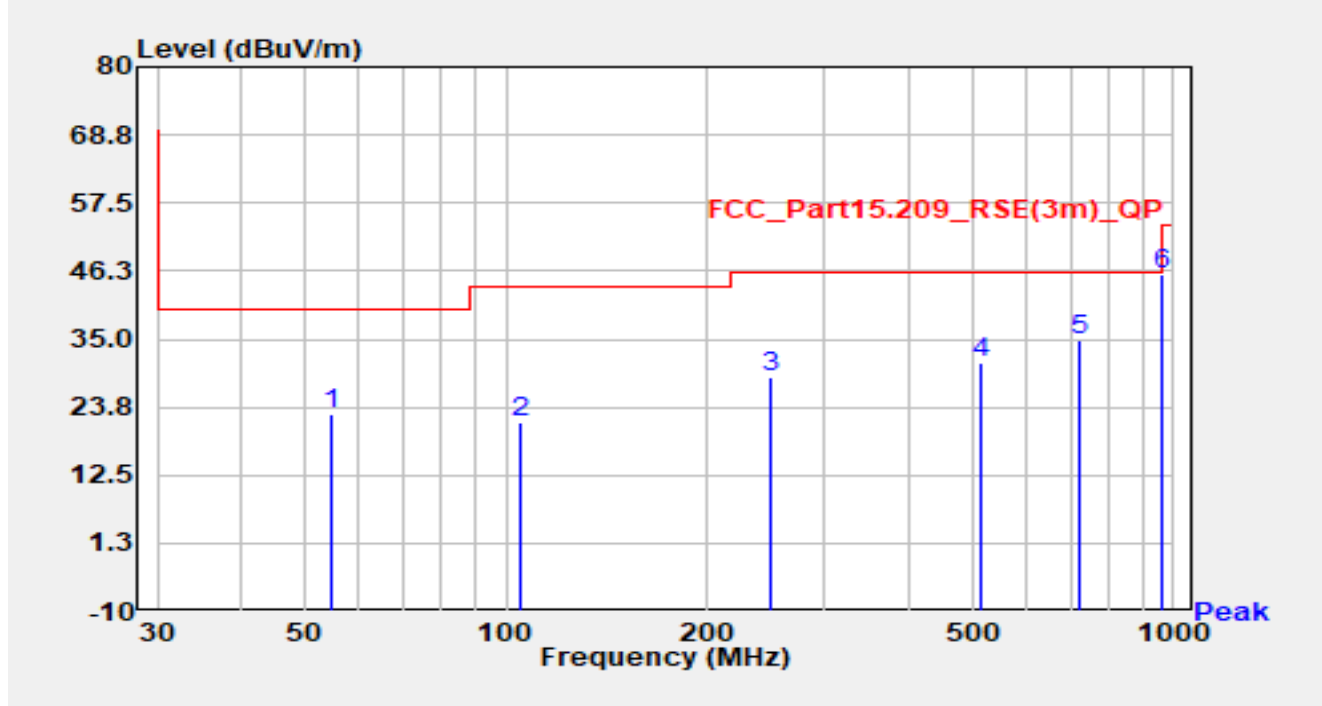


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		30.000	5.90	17.03	22.93	-17.07	40.00	QP
2		64.144	5.01	18.31	23.31	-16.69	40.00	QP
3		146.788	10.56	15.25	25.81	-17.69	43.50	QP
4		226.037	5.90	19.34	25.24	-20.76	46.00	QP
5	*	668.939	3.97	28.73	32.70	-13.30	46.00	QP
6		961.491	4.99	32.05	37.04	-16.96	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5		

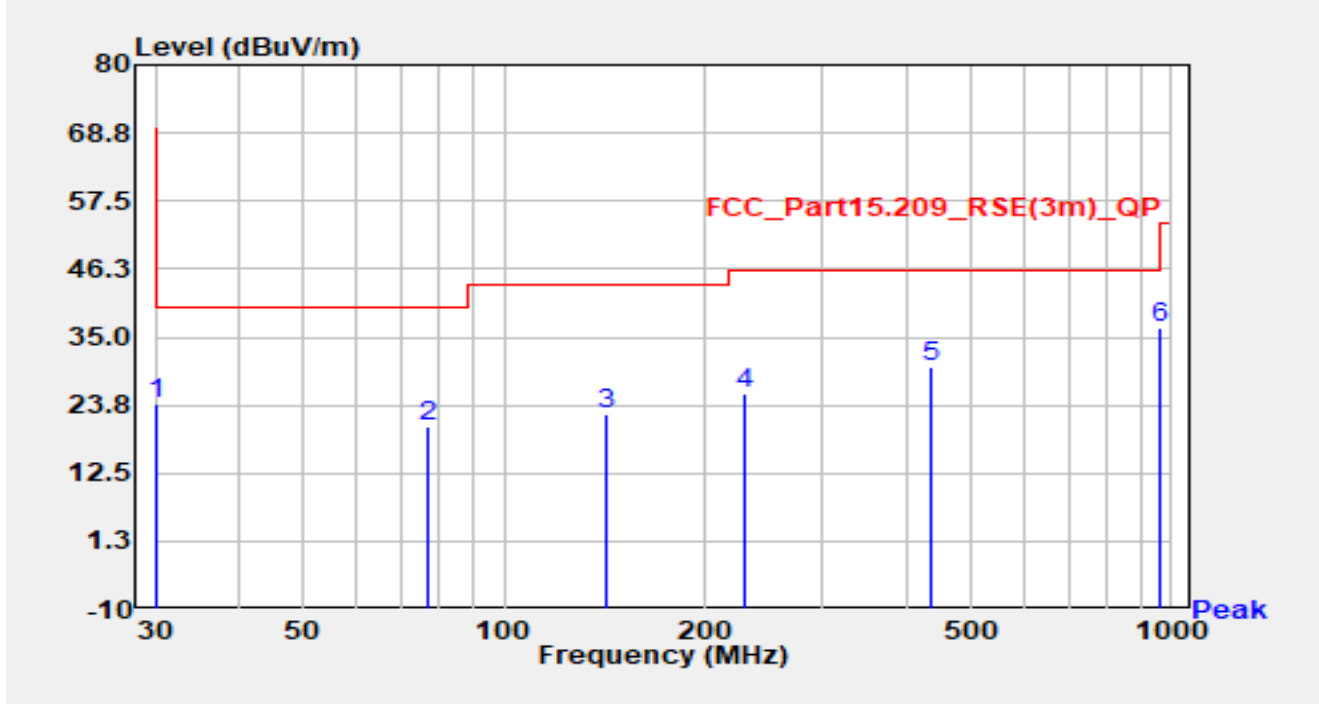


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		54.929	2.52	20.17	22.69	-17.31	40.00	QP
2		104.690	2.63	18.62	21.25	-22.25	43.50	QP
3		249.996	8.37	20.20	28.56	-17.44	46.00	QP
4		514.515	5.40	25.57	30.97	-15.03	46.00	QP
5		721.707	5.57	29.22	34.79	-11.21	46.00	QP
6	*	961.491	13.80	32.05	45.85	-8.15	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	VULB 9162_30-7000MHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5		

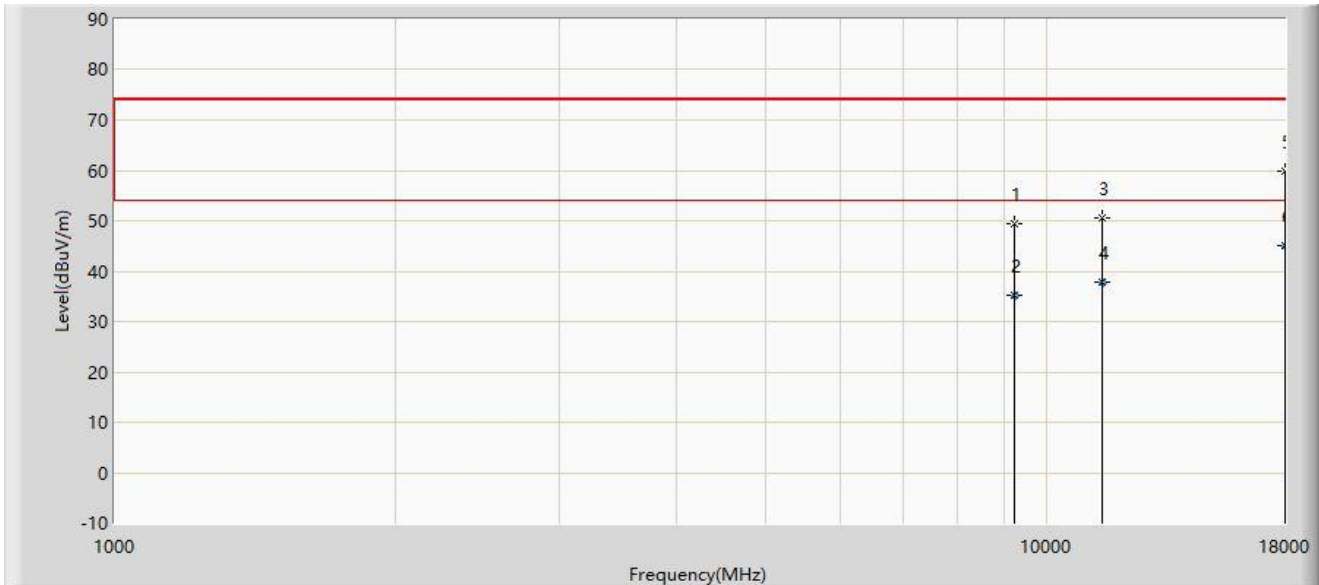


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		30.000	6.80	17.03	23.83	-16.17	40.00	QP
2		76.754	5.95	14.32	20.27	-19.73	40.00	QP
3		142.035	6.90	15.33	22.23	-21.27	43.50	QP
4		229.044	6.10	19.47	25.57	-20.43	46.00	QP
5	*	437.206	5.96	24.08	30.05	-15.95	46.00	QP
6		961.200	4.55	32.05	36.60	-17.40	54.00	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site: WZ-AC1	Test Date: 2024-06-25
Temperature: 26.3°C	Humidity: 51.2%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Dick Shen
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		9211.000	49.428	36.399	-24.572	74.000	13.029	PK
2		9211.000	35.329	22.300	-18.671	54.000	13.029	AV
3		11455.000	50.723	35.928	-23.277	74.000	14.795	PK
4		11455.000	37.895	23.100	-16.105	54.000	14.795	AV
5		17991.500	59.984	36.276	-14.016	74.000	23.709	PK
6	*	17991.500	45.108	21.400	-8.892	54.000	23.709	AV

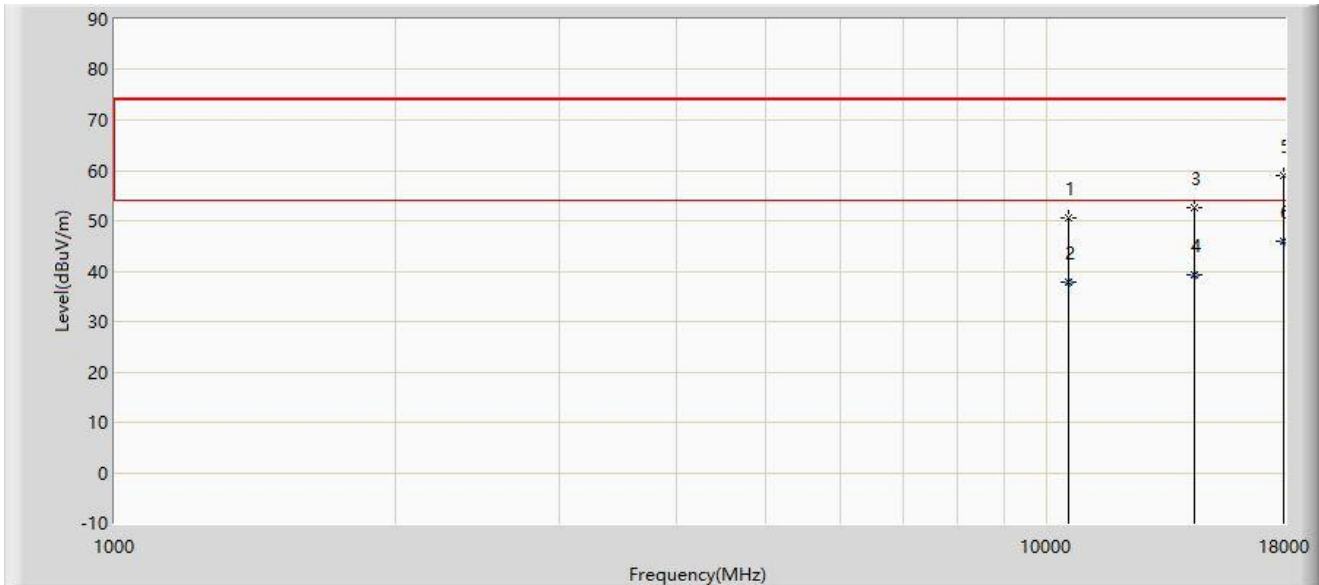
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Test Date: 2024-06-25
Temperature: 26.3°C	Humidity: 51.2%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Dick Shen
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: HAN Access Point (AP511)	Power: AC 120V/60Hz
Test Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		10545.500	50.572	35.612	-23.428	74.000	14.960	PK
2		10545.500	37.960	23.000	-16.040	54.000	14.960	AV
3		14396.000	52.601	35.997	-21.399	74.000	16.604	PK
4		14396.000	39.294	22.690	-14.706	54.000	16.604	AV
5		17957.500	58.847	35.642	-15.153	74.000	23.205	PK
6	*	17957.500	45.968	22.763	-8.032	54.000	23.205	AV

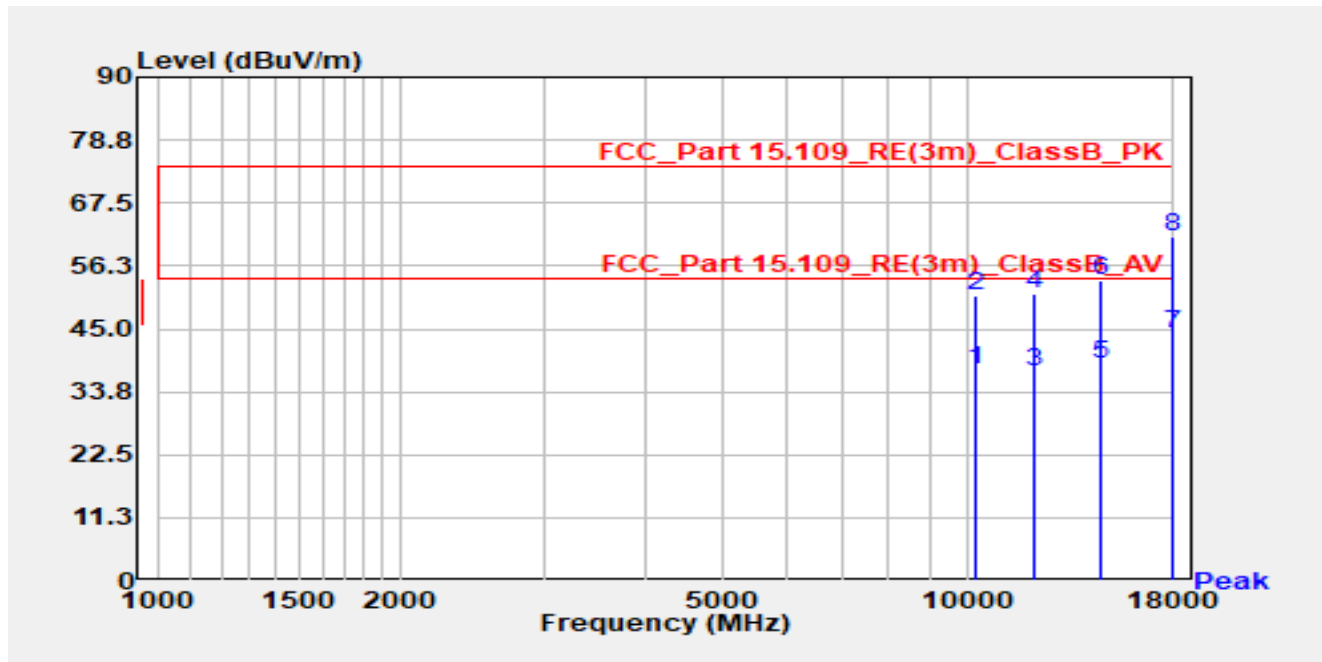
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC1	Test Date	2024-08-09
Test Engineer	Lucas Wang	Temp./Humidity	26.9°C /50.2%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	By POE
Test Mode	Test Mode 2		

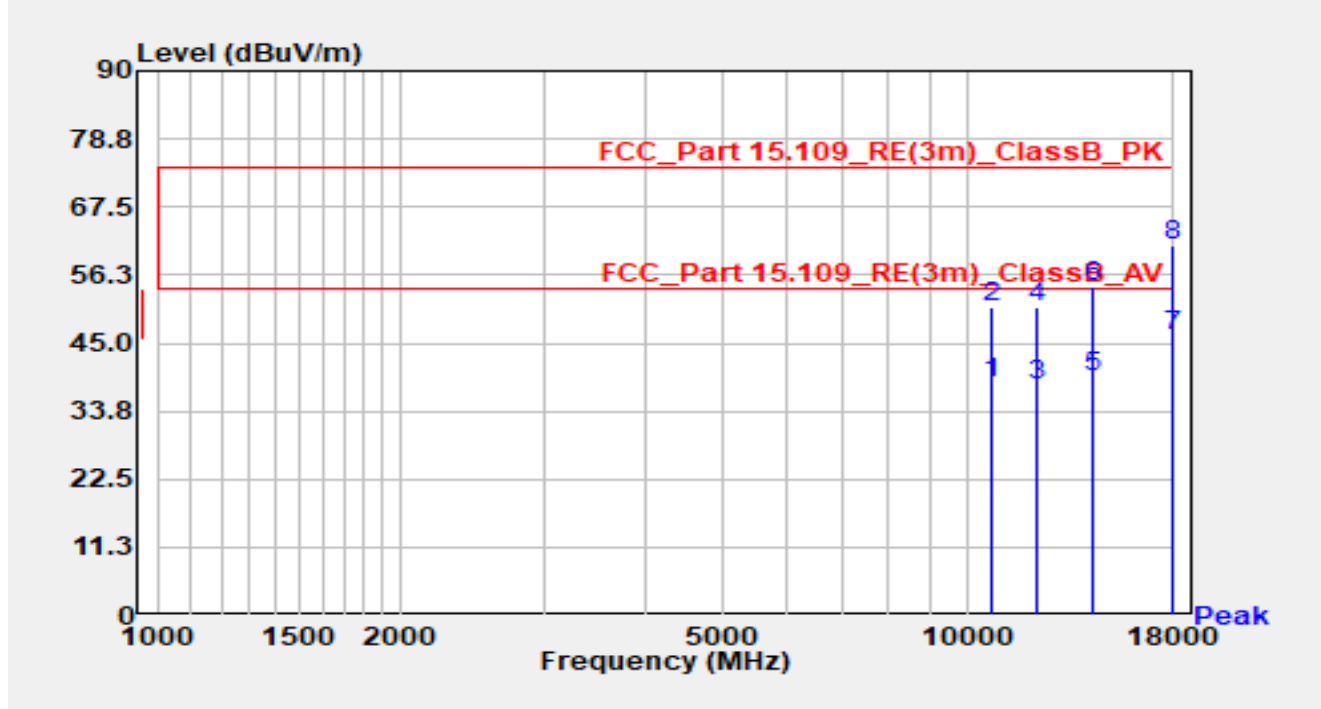


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	10261.600	23.30	14.49	37.79	-16.21	54.00	Average
2		10261.600	36.46	14.49	50.95	-23.05	74.00	Peak
3		12152.000	23.60	13.74	37.34	-16.66	54.00	Average
4		12152.000	37.45	13.74	51.20	-22.80	74.00	Peak
5		14583.000	22.06	16.54	38.60	-15.40	54.00	Average
6		14583.000	37.19	16.54	53.73	-20.27	74.00	Peak
7	*	17994.900	20.36	23.76	44.12	-9.88	54.00	Average
8		17994.900	37.86	23.76	61.61	-12.39	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB)-AMP (dB).
3. Measurement (dBμV/m) = Reading(dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC1	Test Date	2024-08-09
Test Engineer	Lucas Wang	Temp./Humidity	26.9°C /50.2%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	By POE
Test Mode	Test Mode 2		

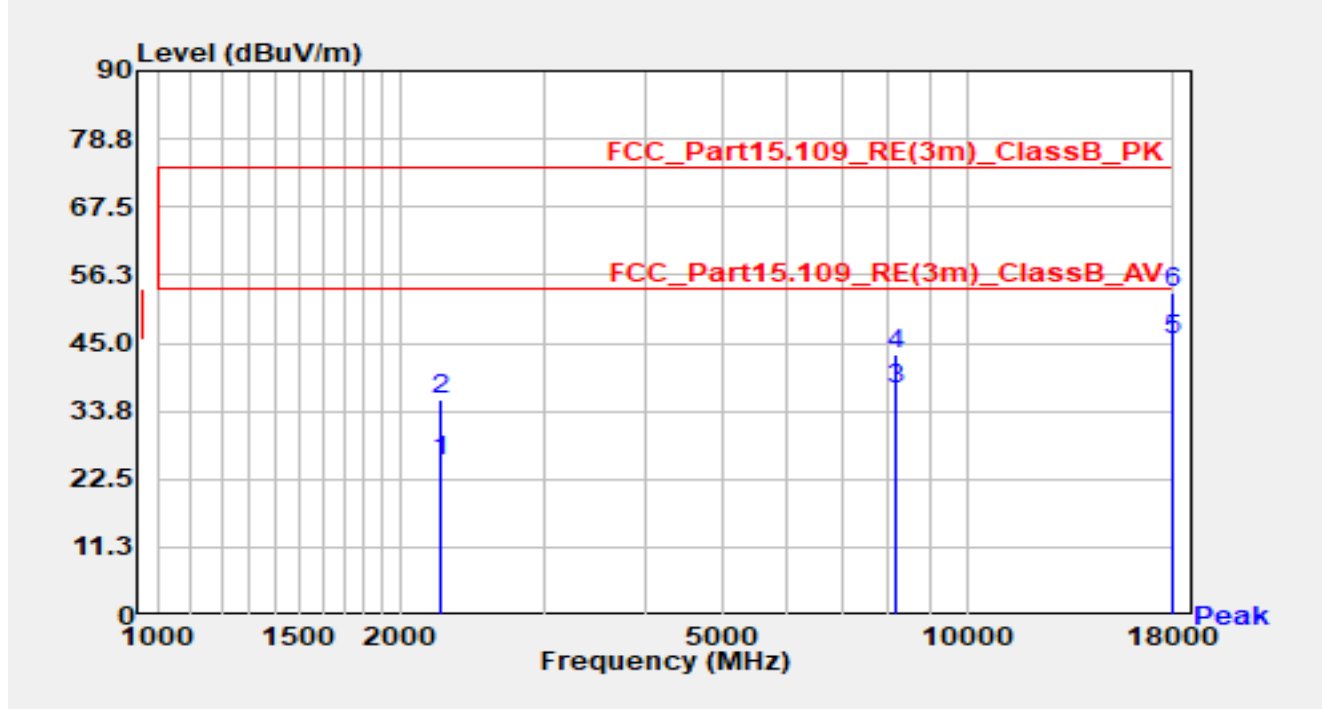


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	10766.500	23.10	15.15	38.25	-15.75	54.00	Average
2		10766.500	35.63	15.15	50.78	-23.22	74.00	Peak
3		12186.000	24.30	13.73	38.03	-15.97	54.00	Average
4		12186.000	37.10	13.73	50.83	-23.17	74.00	Peak
5		14343.300	22.88	16.51	39.39	-14.61	54.00	Average
6		14343.300	37.88	16.51	54.39	-19.61	74.00	Peak
7	*	17942.200	23.00	23.22	46.22	-7.78	54.00	Average
8		17942.200	37.85	23.22	61.07	-12.93	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB)-AMP (dB).
3. Measurement (dBμV/m) = Reading(dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3		

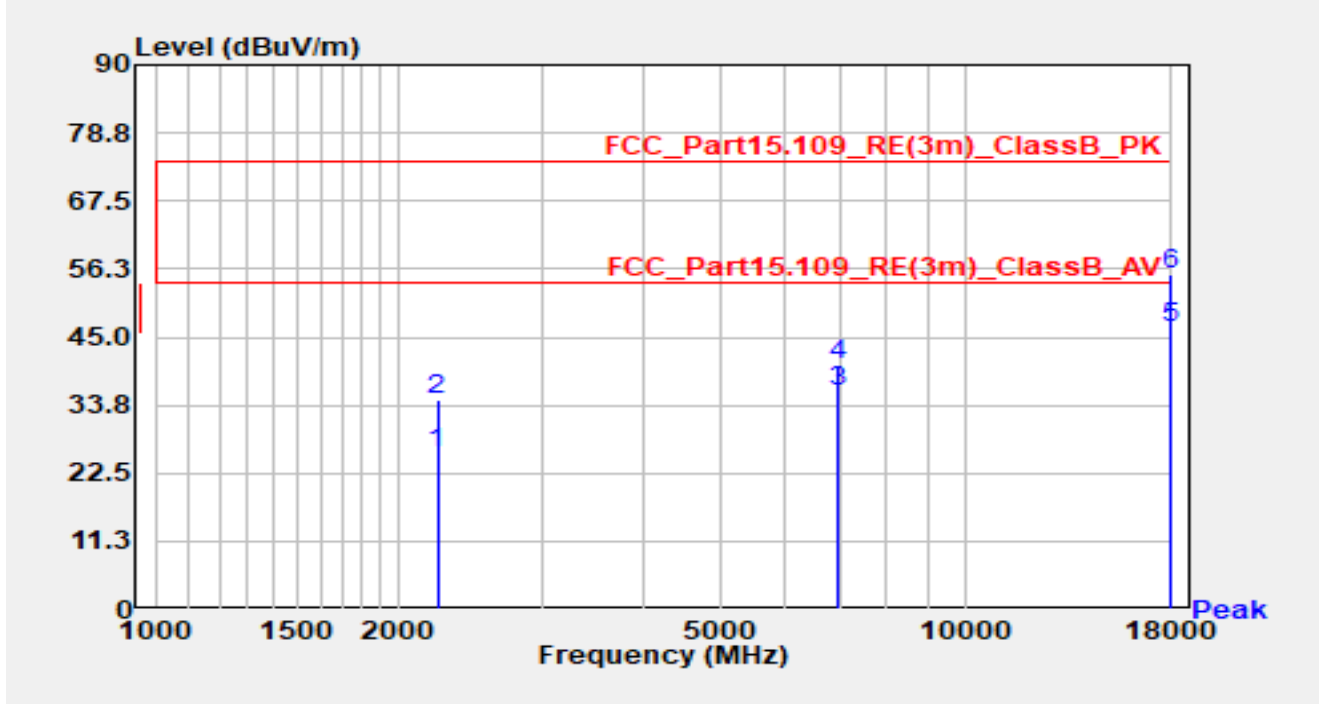


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2230.800	26.40	-0.96	25.44	-28.56	54.00	Average
2		2230.800	36.50	-0.96	35.54	-38.46	74.00	Peak
3		8167.200	26.43	11.03	37.46	-16.54	54.00	Average
4		8167.200	31.94	11.03	42.97	-31.03	74.00	Peak
5	*	18000.000	18.37	27.00	45.37	-8.63	54.00	Average
6		18000.000	26.20	27.00	53.20	-20.80	74.00	Peak

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) -AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C /46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 3		

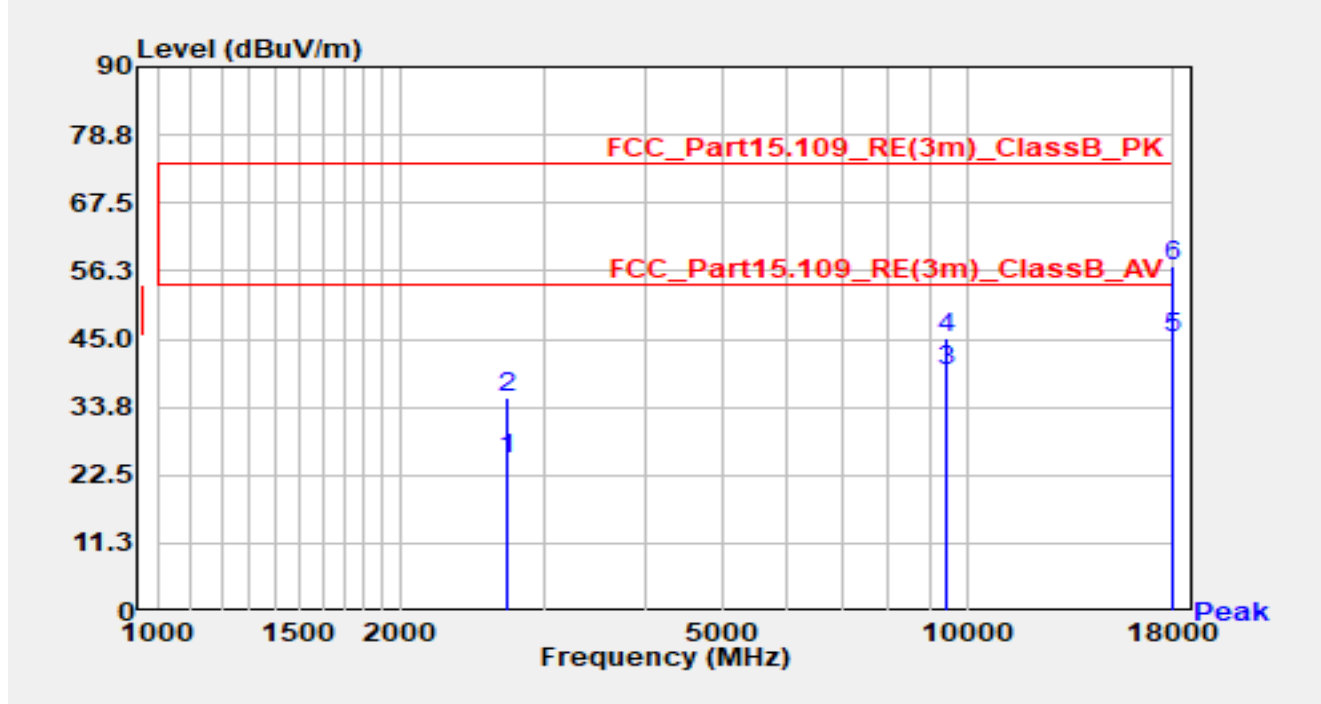


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2229.100	26.70	-0.98	25.72	-28.28	54.00	Average
2		2229.100	35.52	-0.98	34.54	-39.46	74.00	Peak
3	*	6982.300	25.71	10.15	35.86	-18.14	54.00	Average
4		6982.300	30.13	10.15	40.28	-33.72	74.00	Peak
5	*	17955.800	20.00	26.46	46.46	-7.54	54.00	Average
6		17955.800	28.87	26.46	55.33	-18.67	74.00	Peak

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB)-AMP (dB).
- Measurement (dBμV/m) = Reading(dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4		

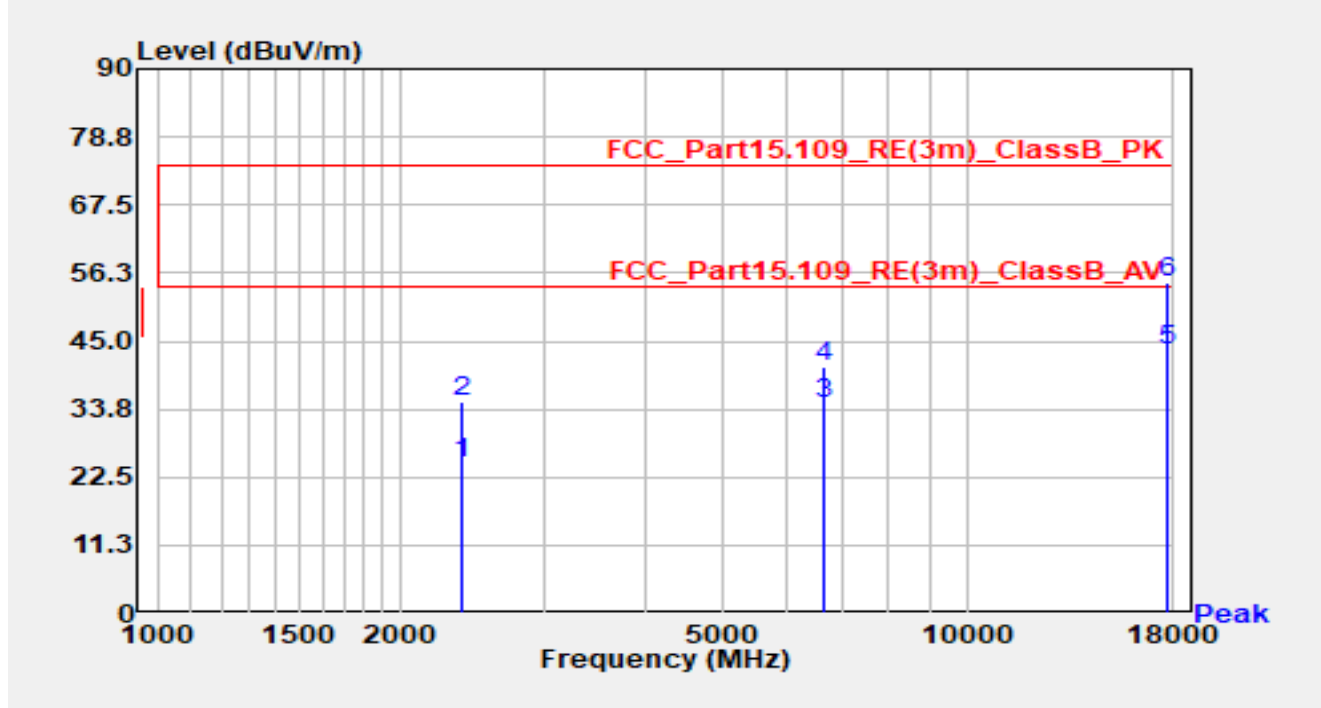


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2713.600	26.61	-1.57	25.04	-28.96	54.00	Average
2		2713.600	36.98	-1.57	35.41	-38.59	74.00	Peak
3		9460.900	26.11	13.50	39.61	-14.39	54.00	Average
4		9460.900	31.82	13.50	45.32	-28.68	74.00	Peak
5	*	17971.100	18.19	26.93	45.12	-8.88	54.00	Average
6		17971.100	30.03	26.93	56.96	-17.04	74.00	Peak

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) -AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 4		

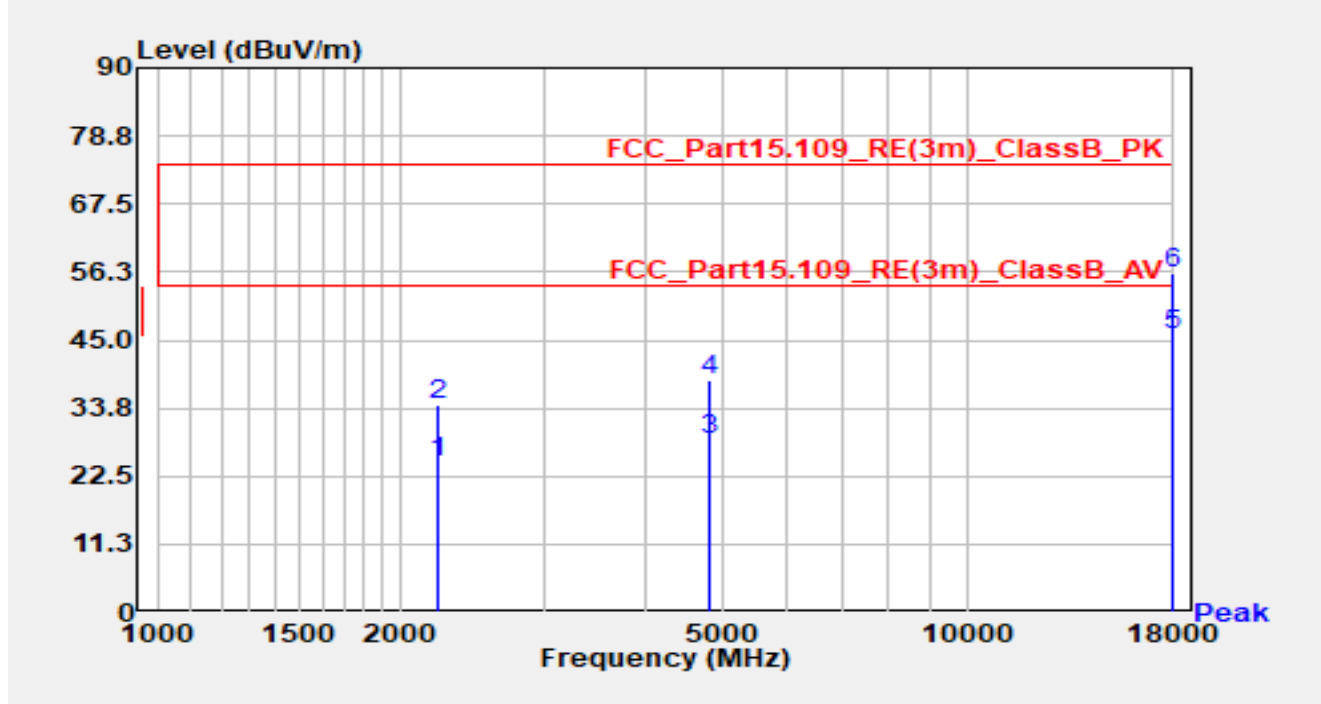


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2382.100	26.34	-1.39	24.95	-29.05	54.00	Average
2		2382.100	36.26	-1.39	34.86	-39.14	74.00	Peak
3		6678.000	25.66	8.86	34.52	-19.48	54.00	Average
4		6678.000	31.91	8.86	40.76	-33.24	74.00	Peak
5	*	17714.400	18.13	25.39	43.52	-10.48	54.00	Average
6		17714.400	29.14	25.39	54.53	-19.47	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) -AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5		

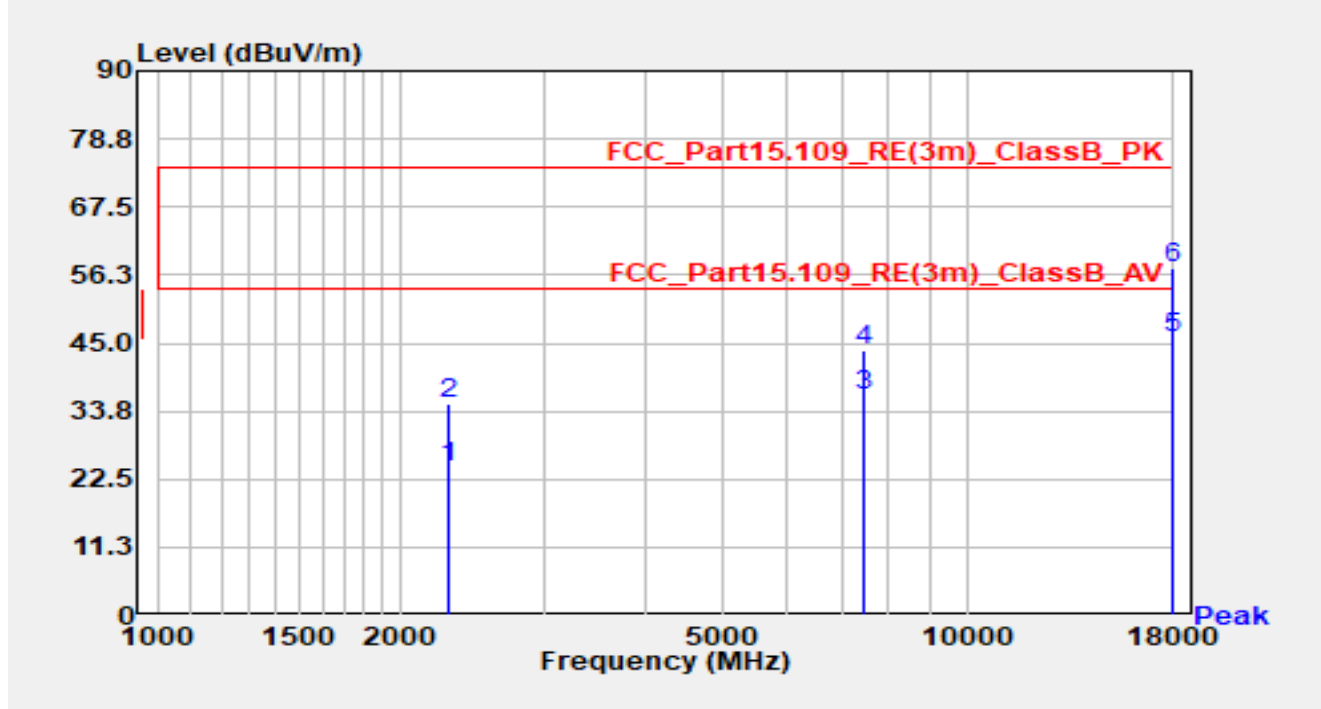


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2227.400	25.68	-1.00	24.68	-29.32	54.00	Average
2		2227.400	35.27	-1.00	34.27	-39.73	74.00	Peak
3		4813.100	24.91	3.70	28.61	-25.39	54.00	Average
4		4813.100	34.71	3.70	38.41	-35.59	74.00	Peak
5	*	17903.100	18.62	27.14	45.76	-8.24	54.00	Average
6		17903.100	28.98	27.14	56.13	-17.87	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) -AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2024-07-23
Test Engineer	Bob Zhang	Temp./Humidity	25.5°C/46.4%
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	HAN Access Point (AP511)	Test Voltage	AC 120V/60Hz
Test Mode	Test Mode 5		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2292.000	25.31	-0.97	24.34	-29.66	54.00	Average
2		2292.000	35.83	-0.97	34.87	-39.13	74.00	Peak
3		7441.300	24.98	11.40	36.38	-17.62	54.00	Average
4		7441.300	32.29	11.40	43.69	-30.31	74.00	Peak
5	*	17977.900	18.75	27.17	45.92	-8.08	54.00	Average
6		17977.900	30.07	27.17	57.25	-16.75	74.00	Peak

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) -AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Appendix A - Test Setup Photograph

Refer to “2408RSU052-UT” file.

Appendix B - EUT Photograph

Refer to “2408RSU052-UE” file.

_____ The End _____