



FCC PART 15C TEST REPORT No.I22Z60151-EMC05

for

Honor Device Co., Ltd.

Smart Phone

Model Name: LGE-NX9

FCC ID: 2AYGCLGE-NX9

with

Hardware Version: HN1LGEHM

Software Version: 6.0.0.108(C900E103R1P3)

Issued Date: 2022-04-20

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60151-EMC05	Rev.0	1 st edition	2022-04-20

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1. Test Laboratory

1.1.Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2.Testing Location

Test Location: CTTL (Huayuan North Road)

Address: No. 52 Huayuan North Road, Haidian District, Beijing 100191, P.R.
China

1.3.Testing Environment

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

1.4.Project date

Testing Start Date: 2022-02-07

Testing End Date: 2022-03-25

1.5.Signature



An Hui

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

(Approved this test report)



2. Client Information

2.1.Applicant Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact: /
Email: /
Telephone: /

2.2.Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact: /
Email: /
Telephone: /

3. PRODUCT INFORMATION

3.1. About EUT

Description	Smart Phone
Model name	LGE-NX9
FCC ID	2AYGCLGE-NX9

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of T CTTL-Telecommunication Technology Labs, CAICT

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	867843050023477/ 867843050024970	HN1LGEHM	6.0.0.108(C900E103R1P3)
EUT2	867843050056592/ 867843050057699	HN1LGEHM	6.0.0.108(C900E103R1P3)

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	Note
AE1-1	Adapter	HN-200500U01
AE1-2	Adapter	HN-200500E01
AE1-3	Adapter	HN-200500B01
AE2-1	USB Cable	L125UC008-CS-H
AE2-2	USB Cable	AU2-CRO015HF
AE2-3	USB Cable	RY0001
AE4-1	Battery	HB586680EFW(SUNWODA)
AE4-2	Battery	HB586680EFW(SCUD)

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

LGE-NX9 is subscriber equipment in the GSM/WCDMA/LTE/NR system. The Mobile Phone implements such functions as RF signal receiving/transmitting, NR/LTE/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS, Wi-Fi etc. dual SIM/single SIM card interface. LGE-NX9 is dual/single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet , or to exchange data with other Bluetooth devices.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

For more EUT information please refers to the manufacturer's specifications or user's manual.

3.5. Test Configuration

For all modes the EUT can transmit at both CHAIN A(Chain A) and CHAIN B(Chain B) RF outputs individually, and also simultaneously(MIMO).

3.6. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C:	2021
	15.205 Restricted bands of operation;	
	15.209 Radiated emission limits, general requirements;	
ANSI C63.10	15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	2013
	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	
	Federal Communications Commission Office of Engineering and Technology Laboratory Division	
KDB 558074 D01	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2019

Note: The test methods have no deviation with standards.

5. SUMMARY OF TEST RESULTS

5.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Verdict
Radiated Spurious Emission	15.247, 15.205, 15.209	P
AC Power line Conducted Emission	15.107, 15.207	P

Please refer to **ANNEX C** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by CTTL
BR	Re-use test data from basic model report.
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

5.2. Statements

The test cases as listed in section 5.1 of this report for the EUT specified in section 3 was performed by CTTL and according to the standards or reference documents listed in section 4.2 The EUT met all requirements of the standards or reference documents, and only the WLAN function was tested in this report.

5.3. Test Conditions

For this report, if the test cases listed above are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	Normal Temperature	26°C
Voltage	Normal Voltage	4.0V
Humidity	Normal Humidity	20-75%

6. Test Facilities Utilized

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2022-12-22
2	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2022-07-01
3	EMI Antenna	VULB9163	9163-483	Schwarzbeck	1 year	2022-08-24
4	Test Receiver	ESW44	103023	R&S	1 year	2022-10-28
5	EMI Antenna	LB-18040025 -C-KF	2110084000 006	A-INFO	1 year	2023-02-23
6	Analytical Spectrometer	FSV40	101047	R&S	1 year	2022-06-02

AC Powerline Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101200	Rohde & Schwarz	1 year	2022-05-30
2	Test Receiver	ESCI 7	100344	Rohde & Schwarz	1 year	2023-02-21

7. Measurement Uncertainty

Radiated Spurious Emission

(k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.74
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

AC Power-line Conducted Emission

Measurement Uncertainty : 3.08dB,k=2

ANNEX A: EUT parameters

Disclaimer: The antenna gain and setting power provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX B: Antenna Requirements

According to FCC 47 CFR § 15.203:

“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.”

- (1) The antennas of the EUT are permanently attached.
- (2) The EUT complies with the requirement of §15.203

ANNEX C: Detailed Test Results

C.1. Radiated Spurious Emission

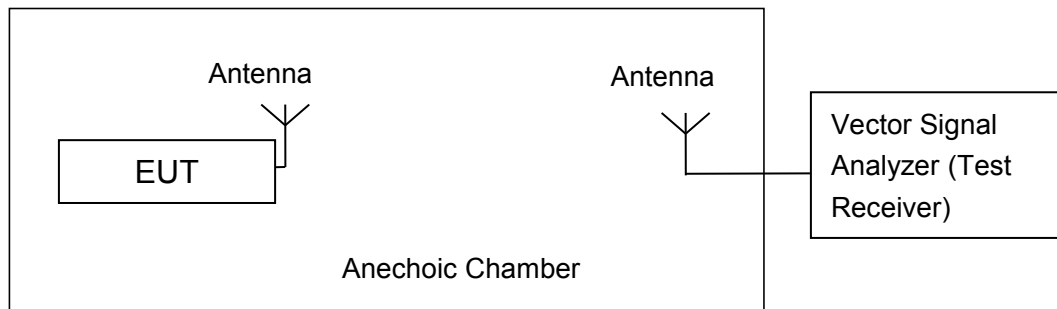
Specification Reference

FCC 47 CFR Part 15.247, 15.205, 15.209

Method of Measurement

Testing was performed in according with ANSI C63.10-2013 and KDB 558074.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.



Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency (MHz)	Field strength(μ V/m)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(dB μ V/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Test settings

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz

Sample Calculation

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Test Notes

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all channel, modes and modulations/data rates. Only the radiated emissions of the configurations that produced the worst case emissions are reported in this section.
3. For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

C.1.1 Radiated Spurious Emission- above 1GHz

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

Results Set.1-1, MIMO

Peak results

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17397.000	53.80	-26.90	45.20	35.40	74.00	20.20	H
13669.500	50.45	-29.50	40.40	39.55	74.00	23.55	V
12370.500	48.27	-31.10	38.90	40.47	74.00	25.73	H
9206.500	45.80	-33.70	38.00	41.50	74.00	28.20	H
7259.000	44.86	-35.00	36.50	43.26	74.00	29.14	H
2315.800	54.87	-20.10	27.90	46.97	74.00	19.13	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17809.500	53.91	-25.50	46.70	32.71	74.00	20.09	H
13503.500	50.42	-29.60	40.00	40.02	74.00	23.58	V
12829.500	48.51	-30.70	39.10	40.01	74.00	25.49	V
8891.500	45.79	-33.50	38.10	41.19	74.00	28.21	H
7418.500	44.28	-35.20	36.70	42.68	74.00	29.72	V
4776.000	39.87	-37.30	33.00	44.07	74.00	34.13	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17635.500	53.77	-25.70	46.00	33.57	74.00	20.23	V
13656.000	50.37	-29.50	40.40	39.47	74.00	23.63	V
12781.500	48.54	-30.70	39.10	40.04	74.00	25.46	H
9579.500	46.01	-33.10	38.00	41.11	74.00	27.99	V
7990.000	44.12	-34.80	37.10	41.82	74.00	29.88	H
2493.300	55.04	-20.00	28.30	46.74	74.00	18.96	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17597.500	52.92	-25.70	46.00	32.72	74.00	21.08	H
13703.000	50.30	-29.10	40.90	38.50	74.00	23.70	V
12847.500	48.91	-30.70	39.10	40.41	74.00	25.09	V
9773.500	45.43	-33.50	38.00	40.93	74.00	28.57	H
7516.500	44.49	-34.50	36.80	42.19	74.00	29.51	V
2389.800	60.80	-20.00	28.10	52.80	74.00	13.20	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.000	53.27	-25.50	46.70	32.07	74.00	20.73	H
14177.500	50.64	-29.00	42.00	37.64	74.00	23.36	V
12879.000	48.14	-30.70	39.10	39.64	74.00	25.86	H
9779.500	45.61	-33.50	38.00	41.11	74.00	28.39	H
7228.000	44.20	-35.50	36.40	43.30	74.00	29.80	H
4827.000	39.29	-37.50	33.10	43.59	74.00	34.71	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17415.000	53.45	-26.90	45.20	35.05	74.00	20.55	H
13625.000	49.99	-29.50	40.40	39.09	74.00	24.01	V
12968.500	48.94	-30.50	39.20	40.24	74.00	25.06	V
9709.000	46.19	-33.00	38.00	41.19	74.00	27.81	H
7424.500	43.85	-35.20	36.70	42.25	74.00	30.15	H
2485.200	58.86	-20.00	28.30	50.56	74.00	15.14	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17306.500	53.27	-25.90	44.40	34.87	74.00	20.73	V
13528.000	50.55	-29.60	40.00	40.15	74.00	23.45	V
12861.500	48.08	-30.70	39.10	39.58	74.00	25.92	H
8816.500	46.47	-33.90	38.10	42.27	74.00	27.53	H
7979.500	44.39	-34.80	37.10	42.09	74.00	29.61	H
2390.000	57.82	-20.00	28.10	49.82	74.00	16.18	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17787.500	52.91	-25.50	46.70	31.71	74.00	21.09	H
13580.500	50.50	-29.50	40.40	39.60	74.00	23.50	H
12788.500	48.31	-30.70	39.10	39.81	74.00	25.69	V
9660.000	46.02	-33.10	38.00	41.12	74.00	27.98	H
7813.000	44.98	-35.10	37.00	43.08	74.00	29.02	H
4778.000	39.36	-37.30	33.00	43.56	74.00	34.64	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17629.500	52.76	-25.70	46.00	32.56	74.00	21.24	H
13809.500	50.59	-29.10	40.90	38.79	74.00	23.41	H
12941.000	47.73	-30.50	39.20	39.03	74.00	26.27	V
9193.500	46.67	-33.80	38.10	42.47	74.00	27.33	V
7916.000	44.20	-34.90	37.10	42.00	74.00	29.80	H
2499.900	55.09	-20.00	28.40	46.69	74.00	18.91	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17738.000	52.58	-25.50	46.70	31.38	74.00	21.42	V
14318.500	50.47	-28.40	42.30	36.57	74.00	23.53	V
12850.000	48.56	-30.70	39.10	40.06	74.00	25.44	H
9562.500	45.67	-33.20	37.90	40.97	74.00	28.33	V
7993.500	44.42	-34.80	37.10	42.12	74.00	29.58	H
2388.900	59.61	-20.00	28.10	51.61	74.00	14.39	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17695.500	53.14	-25.70	46.00	32.94	74.00	20.86	H
14167.500	50.59	-29.00	42.00	37.59	74.00	23.41	V
12533.000	48.24	-31.00	39.00	40.34	74.00	25.76	V
8919.000	45.54	-33.50	38.10	40.94	74.00	28.46	H
7185.000	44.40	-35.50	36.40	43.50	74.00	29.60	V
4854.500	39.50	-37.50	33.10	43.80	74.00	34.50	H

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17233.500	53.09	-25.90	44.40	34.69	74.00	20.91	V
13781.000	50.24	-29.10	40.90	38.44	74.00	23.76	H
12535.000	48.33	-31.00	39.00	40.43	74.00	25.67	H
8609.500	45.84	-34.40	37.90	42.24	74.00	28.16	V
7827.500	44.29	-35.10	37.00	42.39	74.00	29.71	H
2485.400	55.93	-20.00	28.30	47.63	74.00	18.07	H

802.11ax-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17444.000	52.96	-26.90	45.20	34.56	74.00	21.04	H
13717.000	50.16	-29.10	40.90	38.36	74.00	23.84	H
12458.000	48.42	-31.20	38.90	40.72	74.00	25.58	V
8635.000	46.66	-34.40	37.90	43.06	74.00	27.34	H
7225.000	44.32	-35.50	36.40	43.42	74.00	29.68	H
2387.400	61.02	-20.00	28.10	53.02	74.00	12.98	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17613.500	53.70	-25.70	46.00	33.50	74.00	20.30	V
13672.500	50.53	-29.50	40.40	39.63	74.00	23.47	H
12992.000	48.38	-30.50	39.20	39.68	74.00	25.62	V
9759.000	45.43	-33.00	38.00	40.43	74.00	28.57	H
7325.000	44.27	-35.10	36.60	42.77	74.00	29.73	H
4992.500	39.36	-36.60	33.40	42.56	74.00	34.64	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17296.000	52.72	-25.90	44.40	34.32	74.00	21.28	H
13764.500	49.92	-29.10	40.90	38.12	74.00	24.08	V
12539.500	48.06	-31.00	39.00	40.16	74.00	25.94	V
9645.500	45.55	-33.10	38.00	40.65	74.00	28.45	V
7873.500	44.26	-34.90	37.10	42.06	74.00	29.74	H
2487.100	56.33	-20.00	28.30	48.03	74.00	17.67	H

802.11ax-HT40

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17755.000	53.61	-25.50	46.70	32.41	74.00	20.39	H
14171.000	50.44	-29.00	42.00	37.44	74.00	23.56	H
12855.500	48.95	-30.70	39.10	40.45	74.00	25.05	H
9978.000	45.55	-33.60	38.10	41.05	74.00	28.45	H
7253.000	44.31	-35.00	36.50	42.71	74.00	29.69	H
2389.200	58.69	-20.00	28.10	50.69	74.00	15.31	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17607.500	52.81	-25.70	46.00	32.61	74.00	21.19	H
13688.000	49.79	-29.50	40.40	38.89	74.00	24.21	V
12841.500	47.85	-30.70	39.10	39.35	74.00	26.15	H
8658.500	45.75	-34.40	37.90	42.15	74.00	28.25	H
7898.000	44.84	-34.90	37.10	42.64	74.00	29.16	V
4993.500	40.10	-36.60	33.40	43.30	74.00	33.90	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.000	53.43	-25.50	46.70	32.23	74.00	20.57	H
14205.000	50.39	-29.00	42.00	37.39	74.00	23.61	V
12856.000	47.78	-30.70	39.10	39.28	74.00	26.22	H
8849.500	45.86	-33.50	38.10	41.26	74.00	28.14	H
7442.000	44.77	-35.20	36.70	43.17	74.00	29.23	V
2485.900	60.44	-20.00	28.30	52.14	74.00	13.56	H

Average results

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17698.000	41.79	-25.70	46.00	21.59	54.00	12.21	H
13600.500	39.25	-29.50	40.40	28.35	54.00	14.75	H
12858.500	37.20	-30.70	39.10	28.70	54.00	16.80	H
9127.500	34.38	-33.80	38.10	30.18	54.00	19.62	H
7326.000	33.17	-35.10	36.60	31.67	54.00	20.83	H
2387.300	41.70	-20.00	28.10	33.70	54.00	12.30	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17422.000	41.82	-26.90	45.20	23.42	54.00	12.18	V
13679.500	39.13	-29.50	40.40	28.23	54.00	14.87	H
12770.000	37.22	-30.50	39.10	28.62	54.00	16.78	H
9870.000	34.50	-33.50	38.10	29.90	54.00	19.50	H
7248.500	33.15	-35.00	36.50	31.55	54.00	20.85	H
4612.500	28.17	-37.30	32.70	32.87	54.00	25.83	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17618.500	41.75	-25.70	46.00	21.55	54.00	12.25	V
13558.000	39.02	-29.60	40.00	28.62	54.00	14.98	V
12855.000	37.01	-30.70	39.10	28.51	54.00	16.99	V
9778.500	34.30	-33.50	38.00	29.80	54.00	19.70	H
7234.500	32.99	-35.50	36.40	32.09	54.00	21.01	H
2485.000	41.99	-20.00	28.30	33.69	54.00	12.01	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17794.500	41.75	-25.50	46.70	20.55	54.00	12.25	V
13656.000	39.04	-29.50	40.40	28.14	54.00	14.96	V
12975.500	36.91	-30.50	39.20	28.21	54.00	17.09	V
9802.500	34.20	-33.50	38.00	29.70	54.00	19.80	H
7787.500	33.05	-35.10	37.00	31.15	54.00	20.95	H
2389.800	46.09	-20.00	28.10	38.09	54.00	7.91	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17617.000	41.78	-25.70	46.00	21.58	54.00	12.22	V
13651.000	39.19	-29.50	40.40	28.29	54.00	14.81	V
12863.000	36.91	-30.70	39.10	28.41	54.00	17.09	V
9878.500	34.25	-33.50	38.10	29.65	54.00	19.75	H
7997.000	33.17	-34.80	37.10	30.87	54.00	20.83	H
4950.500	27.96	-37.10	33.30	31.76	54.00	26.04	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.500	41.81	-25.50	46.70	20.61	54.00	12.19	V
13650.500	38.91	-29.50	40.40	28.01	54.00	15.09	H
12835.500	36.91	-30.70	39.10	28.41	54.00	17.09	H
8720.000	34.35	-34.40	38.00	30.75	54.00	19.65	H
7991.500	33.01	-34.80	37.10	30.71	54.00	20.99	H
2485.100	43.82	-20.00	28.30	35.52	54.00	10.18	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17607.50	42.15	-25.70	46.00	21.95	54.00	11.85	H
13650.50	39.32	-29.50	40.40	28.42	54.00	14.68	H
12859.50	37.54	-30.70	39.10	29.04	54.00	16.46	V
9126.00	34.39	-33.80	38.10	30.19	54.00	19.61	V
7997.00	33.19	-34.80	37.10	30.89	54.00	20.81	V
2389.40	44.31	-20.00	28.10	36.31	54.00	9.69	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17618.50	41.61	-25.70	46.00	21.41	54.00	12.39	H
13677.00	39.07	-29.50	40.40	28.17	54.00	14.93	H
12846.50	37.01	-30.70	39.10	28.51	54.00	16.99	H
9029.00	34.34	-33.80	38.10	29.94	54.00	19.66	H
7222.00	33.10	-35.50	36.40	32.20	54.00	20.90	V
4912.50	27.94	-37.20	33.20	31.94	54.00	26.06	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17782.50	41.42	-25.50	46.70	20.22	54.00	12.58	V
13803.00	38.98	-29.10	40.90	27.18	54.00	15.02	V
12931.00	36.90	-30.50	39.20	28.20	54.00	17.10	V
9726.50	34.32	-33.00	38.00	29.32	54.00	19.68	H
7234.50	33.14	-35.50	36.40	32.24	54.00	20.86	H
2485.10	42.71	-20.00	28.30	34.41	54.00	11.29	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17603.500	41.99	-25.70	46.00	21.79	54.00	12.01	V
13595.000	39.40	-29.50	40.40	28.50	54.00	14.60	V
12862.500	37.17	-30.70	39.10	28.67	54.00	16.83	H
9982.000	34.23	-33.60	38.10	29.73	54.00	19.77	H
7419.500	33.33	-35.20	36.70	31.73	54.00	20.67	V
2389.800	46.35	-20.00	28.10	38.35	54.00	7.65	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17609.000	42.02	-25.70	46.00	21.82	54.00	11.98	H
13654.500	39.15	-29.50	40.40	28.25	54.00	14.85	V
12931.500	36.87	-30.50	39.20	28.17	54.00	17.13	V
9151.500	34.18	-33.80	38.10	29.98	54.00	19.82	H
7220.500	33.21	-35.50	36.40	32.31	54.00	20.79	V
4987.000	28.38	-36.60	33.40	31.58	54.00	25.62	H

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.500	41.92	-25.50	46.70	20.72	54.00	12.08	V
13589.500	39.18	-29.50	40.40	28.28	54.00	14.82	V
12854.500	37.03	-30.70	39.10	28.53	54.00	16.97	V
9044.000	34.16	-33.80	38.10	29.76	54.00	19.84	H
7999.500	33.90	-34.80	37.10	31.60	54.00	20.10	V
2485.100	42.82	-20.00	28.30	34.52	54.00	11.18	H

802.11ax-HT20
Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.50	41.42	-25.50	46.70	20.22	54.00	12.58	V
13729.00	38.89	-29.10	40.90	27.09	54.00	15.11	V
12853.00	36.91	-30.70	39.10	28.41	54.00	17.09	V
9642.00	34.39	-33.10	38.00	29.49	54.00	19.61	H
7414.00	33.36	-35.20	36.70	31.76	54.00	20.64	H
2389.80	45.81	-20.00	28.10	37.81	54.00	8.19	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.00	41.37	-25.50	46.70	20.17	54.00	12.63	H
13609.50	38.97	-29.50	40.40	28.07	54.00	15.03	H
12846.50	36.74	-30.70	39.10	28.24	54.00	17.26	H
9656.50	34.28	-33.10	38.00	29.38	54.00	19.72	V
7224.00	33.11	-35.50	36.40	32.21	54.00	20.89	V
4860.50	28.23	-37.50	33.10	32.53	54.00	25.77	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17585.50	41.55	-25.70	46.00	21.35	54.00	12.45	V
13624.50	39.08	-29.50	40.40	28.18	54.00	14.92	H
12853.50	37.30	-30.70	39.10	28.80	54.00	16.70	V
9133.50	34.38	-33.80	38.10	30.18	54.00	19.62	V
7232.00	33.27	-35.50	36.40	32.37	54.00	20.73	V
2485.20	43.03	-20.00	28.30	34.73	54.00	10.97	H

802.11ax-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17601.50	41.81	-25.70	46.00	21.61	54.00	12.19	V
13516.00	39.11	-29.60	40.00	28.71	54.00	14.89	V
12848.00	36.86	-30.70	39.10	28.36	54.00	17.14	V
8728.50	34.45	-34.40	38.00	30.85	54.00	19.55	H
7986.50	33.25	-34.80	37.10	30.95	54.00	20.75	H
2389.20	45.95	-20.00	28.10	37.95	54.00	8.05	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17693.50	41.94	-25.70	46.00	21.74	54.00	12.06	V
13675.00	39.02	-29.50	40.40	28.12	54.00	14.98	V
12844.00	36.88	-30.70	39.10	28.38	54.00	17.12	V
9658.50	34.31	-33.10	38.00	29.41	54.00	19.69	V
7411.50	33.14	-35.20	36.70	31.54	54.00	20.86	V
4993.50	28.42	-36.60	33.40	31.62	54.00	25.58	H

Ch9

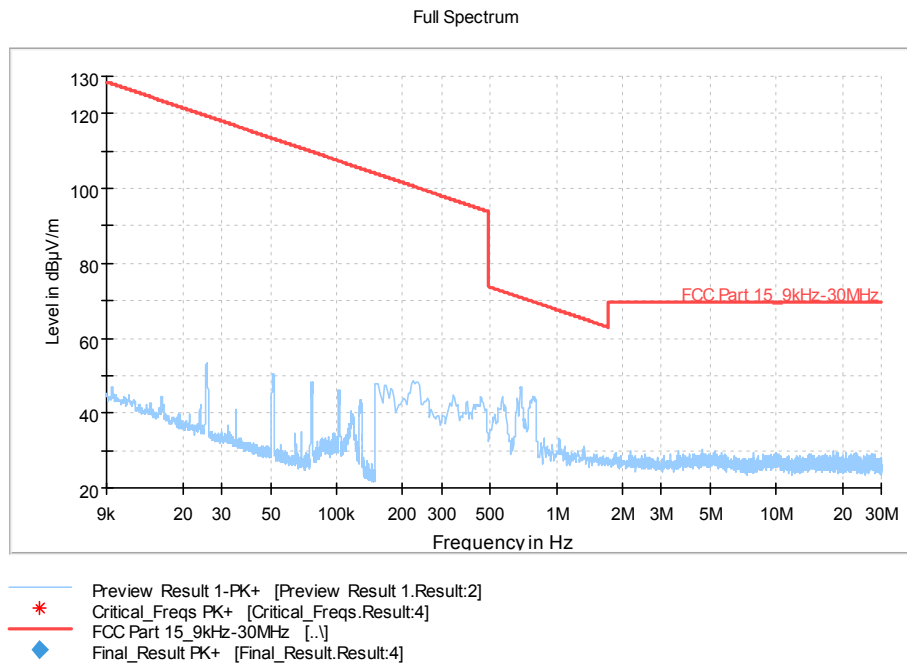
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17609.50	41.58	-25.70	46.00	21.38	54.00	12.42	H
13571.50	39.21	-29.50	40.40	28.31	54.00	14.79	H
12862.50	37.39	-30.70	39.10	28.89	54.00	16.61	H
9784.50	34.39	-33.50	38.00	29.89	54.00	19.61	H
7226.50	33.22	-35.50	36.40	32.32	54.00	20.78	V
2485.20	42.98	-20.00	28.30	34.68	54.00	11.02	H

Note: the spurious emission above 18G is noise only.

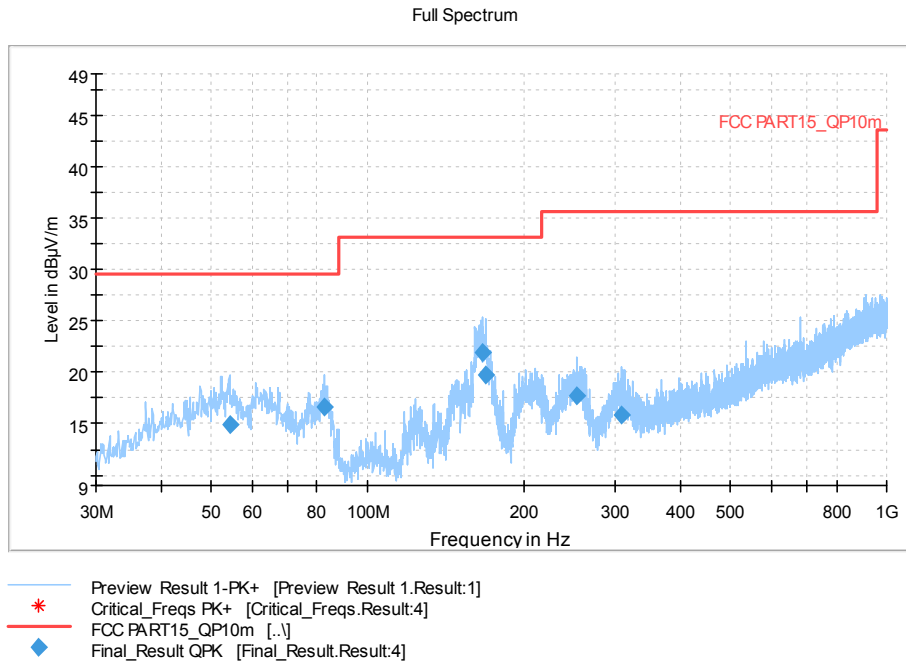
Conclusion: Pass

C.1.2 Radiated Spurious Emission-BELOW 1GHz

WOSRT CASE FOR BELOW 30MHz (Set.1-1, 802.11b CH1, MIMO)



WOSRT CASE FOR BELOW 1GHz (Set.1-1, 802.11b CH1, MIMO)



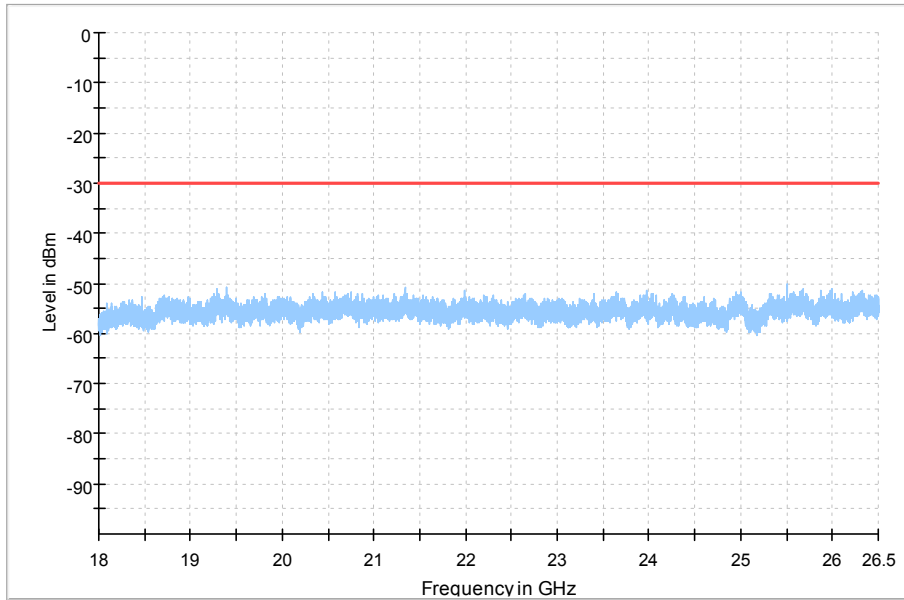
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
54.250000	14.86	29.54	14.68	2000.0	120.000	108.0	V	116.0
82.477000	16.61	29.54	12.93	2000.0	120.000	110.0	V	96.0
166.770000	21.97	33.06	11.09	2000.0	120.000	109.0	V	63.0
169.195000	19.72	33.06	13.34	2000.0	120.000	110.0	V	26.0
253.391000	17.75	35.56	17.81	2000.0	120.000	110.0	V	186.0
308.972000	15.85	35.56	19.71	2000.0	120.000	286.0	H	270.0

C.1.3 Radiated Spurious Emission-ABOVE 18GHz

WOSRT CASE FOR ABOVE 18GHz (Set.1-1, 802.11b CH1, MIMO)

Full Spectrum



C.1.4 Band Edges Compliance– Radiated

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

Results for Set.1-1, MIMO

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.5	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.C.1.3.7	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.C.1.3.8	P

802.11ax-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.9	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.10	P

802.11ax-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ax(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.C.1.3.11	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.C.1.3.12	P

Conclusion: PASS

The Result for MIMO
Test graphs as below:

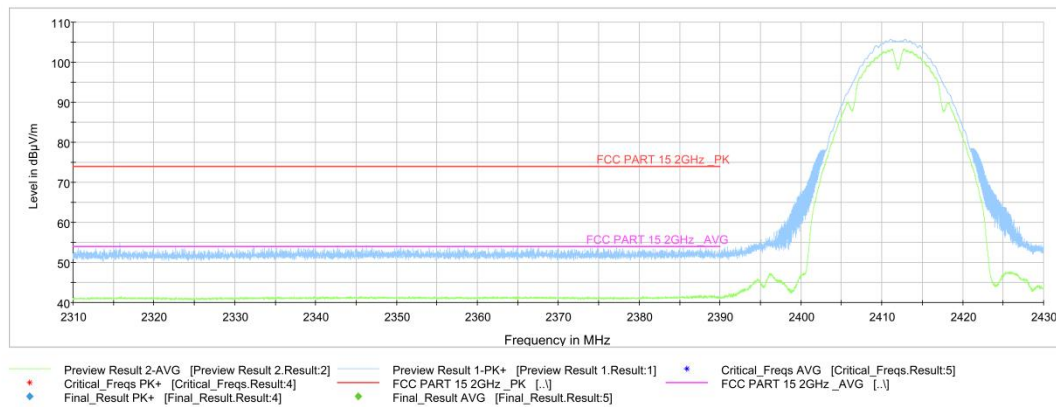


Fig.C.1.3.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz
– 2.43GHz

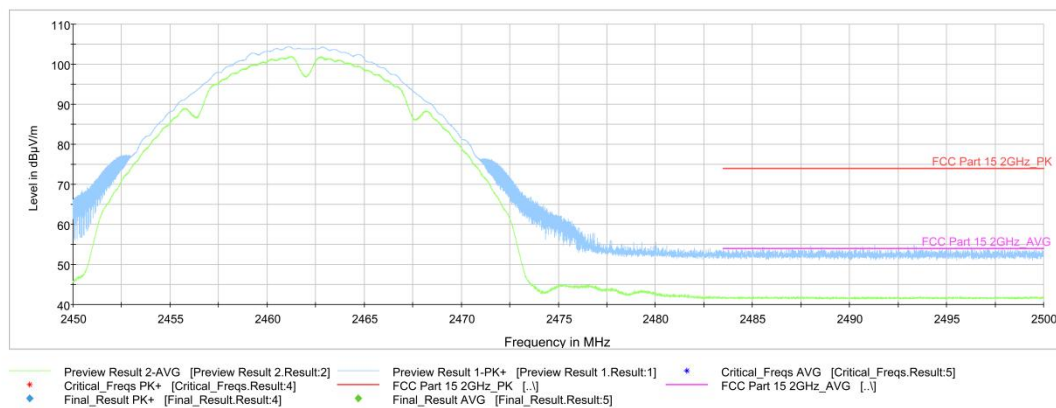


Fig.C.1.3.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45
GHz - 2.50GHz

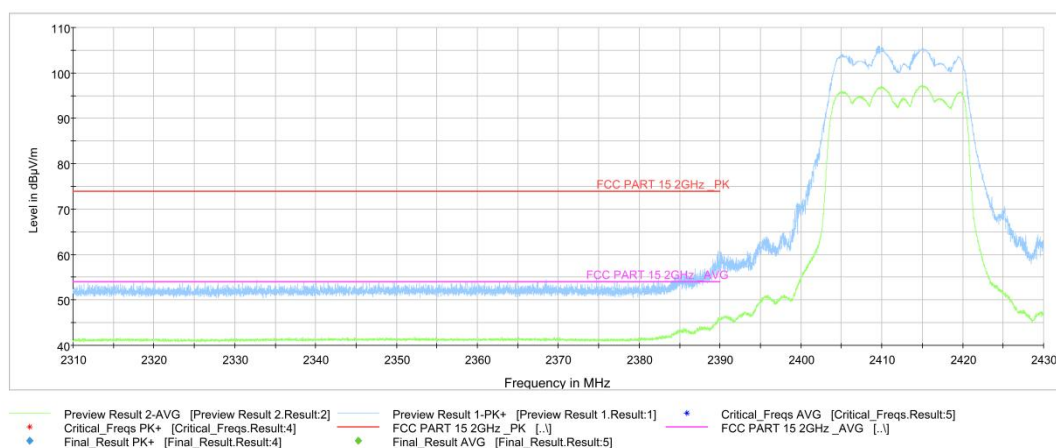


Fig.C.1.3.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz
– 2.43GHz

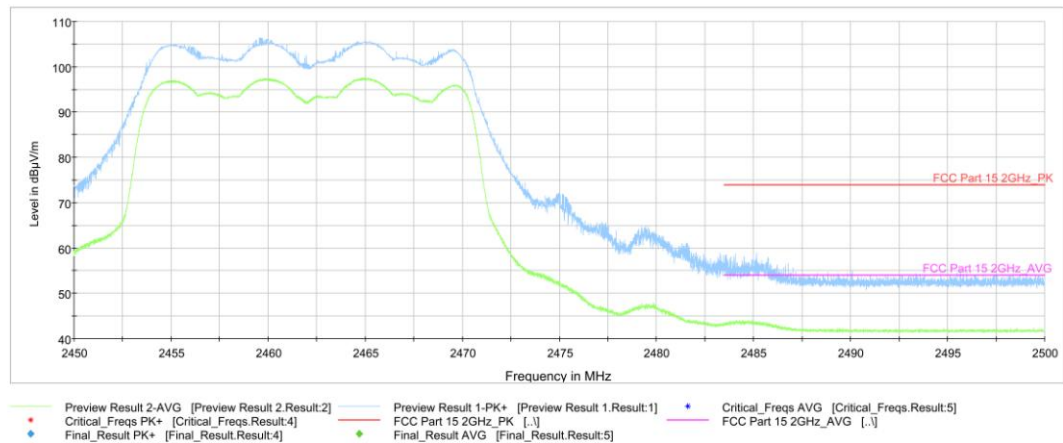


Fig.C.1.3.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

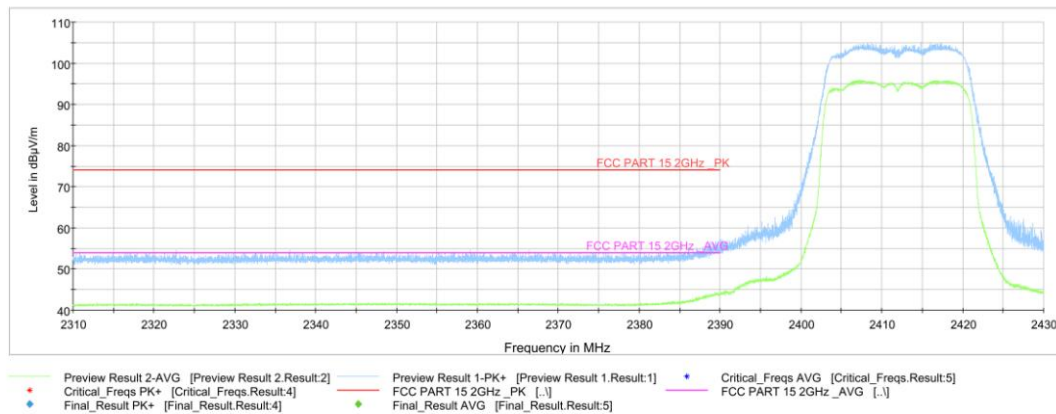


Fig.C.1.3.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

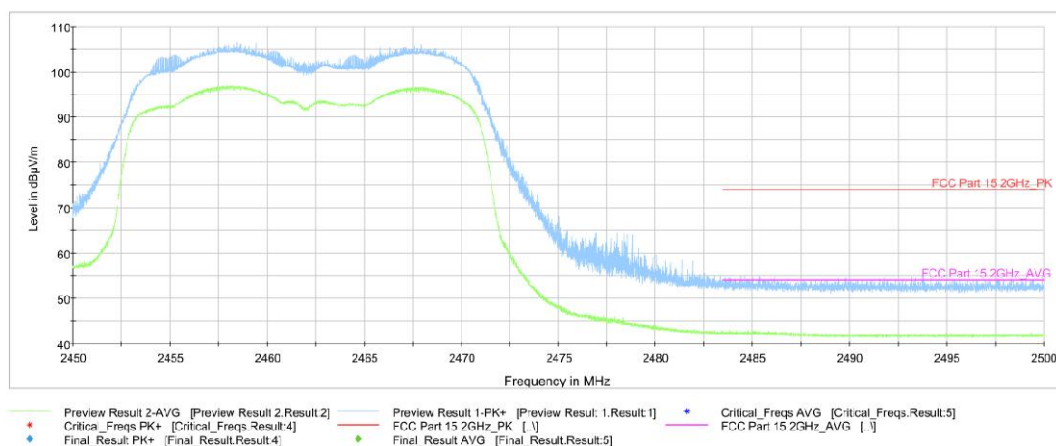


Fig.C.1.3.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

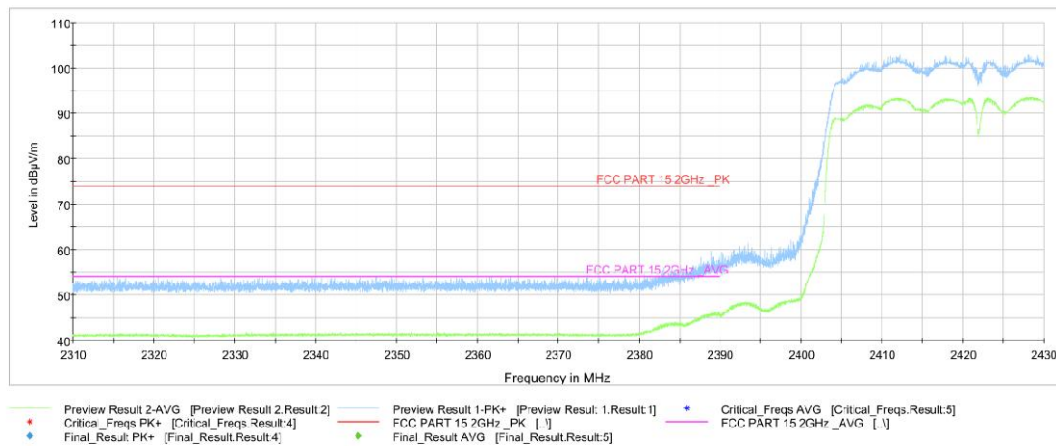


Fig.C.1.3.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

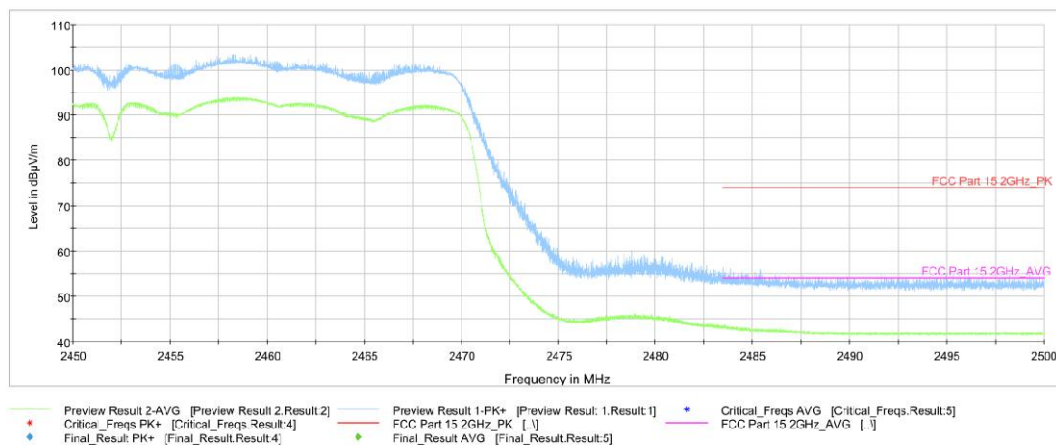


Fig.C.1.3.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

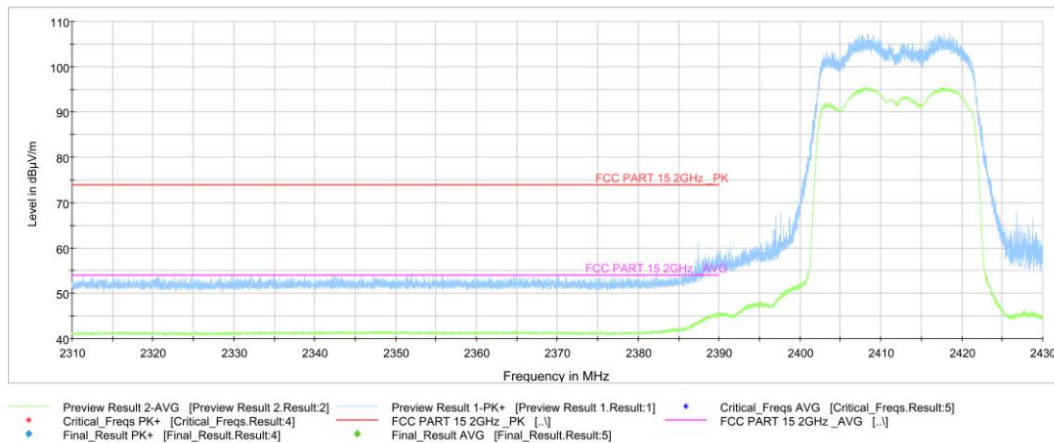


Fig.C.1.3.9 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, 2.31GHz - 2.43GHz

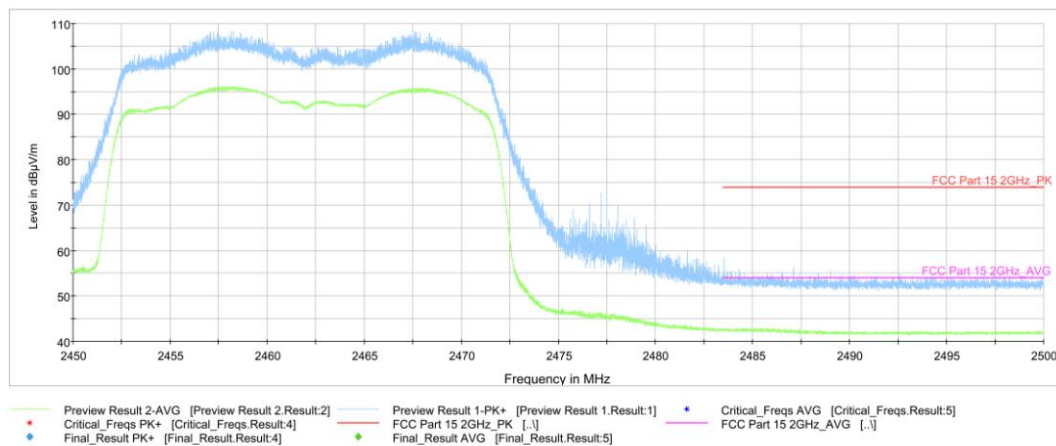


Fig.C.1.3.10 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, 2.45 GHz - 2.50GHz

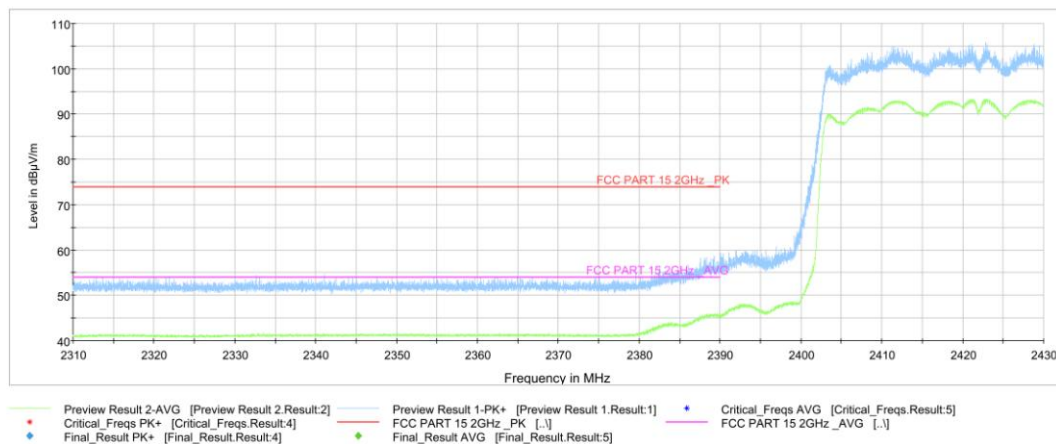


Fig.C.1.3.11 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch3, 2.31GHz - 2.43GHz

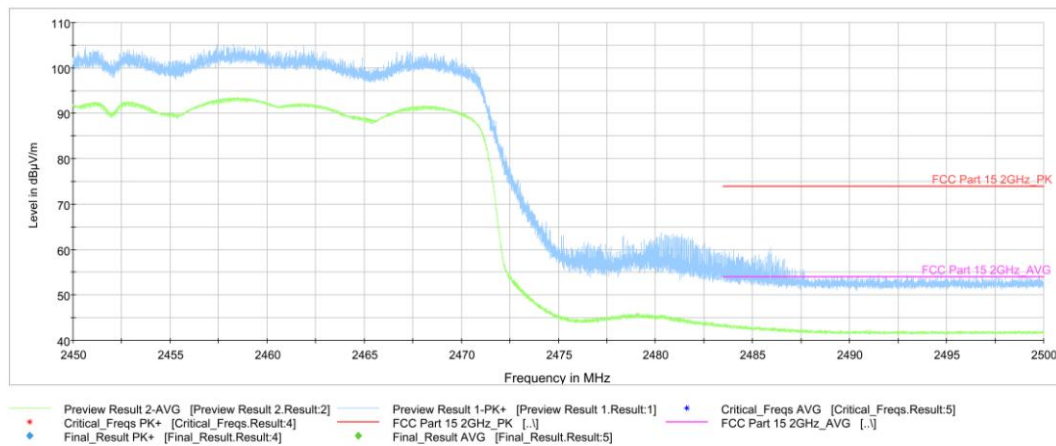


Fig.C.1.3.12 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch9, 2.45 GHz - 2.50GHz

C.2. AC Power-line Conducted Emission

Specification Reference

FCC 47 CFR Part 15.207, 15.107

Method of Measurement

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

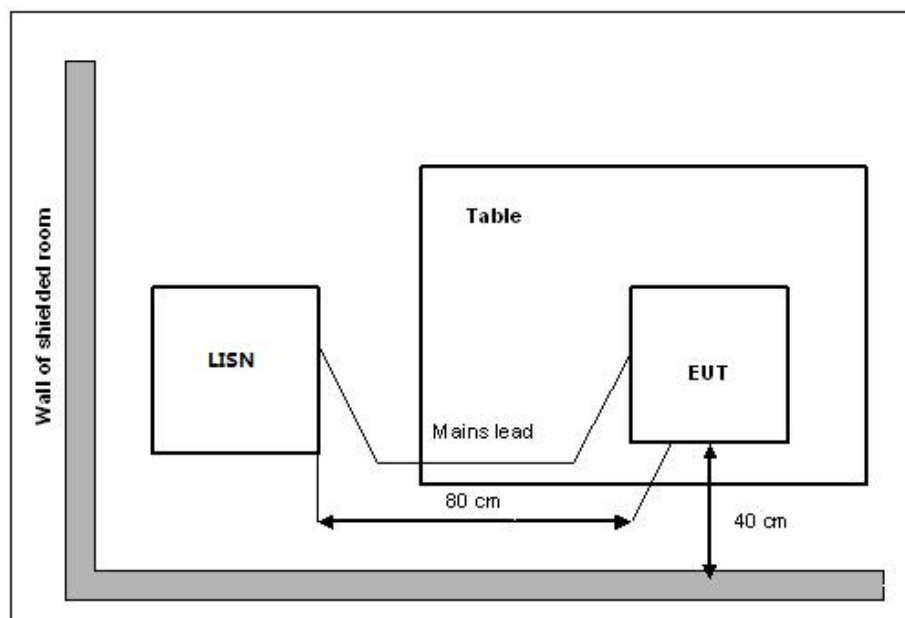
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth	Sweep Time(s)
0.15-30	9kHz	1

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Setup



EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state.

The EUT is powered by an AC/travel adapter.

Measurement Result and limit:

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 and EUT2 with were performed separately in MIMO and only the worst cases are shown in this report.

Set.1-1, Set.1-2

802.11a/802.11n-HT20/802.11n-HT40/802.11ac-HT20 mode/802.11ac-HT40/

802.11ax-HT20 mode/802.11ax-HT40:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

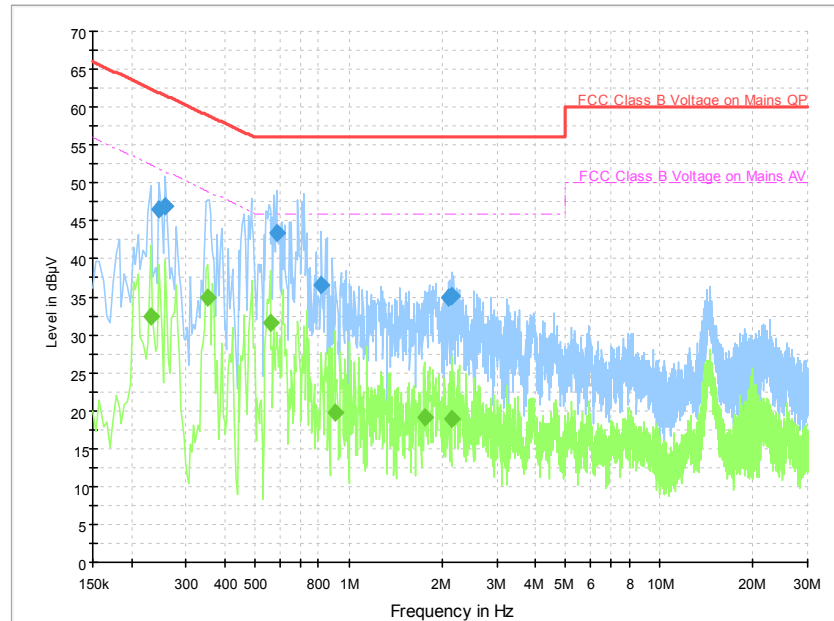
Note: all modes have been tested and the worst results shown here.

Conclusion: Pass

Test graphs as below:

Set.1-1, 802.11b, MIMO

Traffic:


Fig.C.2.1 AC Powerline Conducted Emission-802.11b

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.246000	46.5	5000.0	9.000	On	N	19.8	15.4	61.9
0.258000	46.9	5000.0	9.000	On	L1	20.0	14.6	61.5
0.586000	43.4	5000.0	9.000	On	L1	19.8	12.6	56.0
0.818000	36.5	5000.0	9.000	On	L1	19.6	19.5	56.0
2.094000	35.0	5000.0	9.000	On	L1	19.5	21.0	56.0
2.150000	35.1	5000.0	9.000	On	L1	19.5	20.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.230000	32.5	5000.0	9.000	On	L1	20.0	20.0	52.4
0.350000	34.8	5000.0	9.000	On	N	19.9	14.1	49.0
0.558000	31.5	5000.0	9.000	On	L1	19.9	14.5	46.0
0.906000	19.6	5000.0	9.000	On	N	19.8	26.4	46.0
1.750000	19.0	5000.0	9.000	On	L1	19.5	27.0	46.0
2.142000	18.9	5000.0	9.000	On	N	19.8	27.1	46.0

Idle:

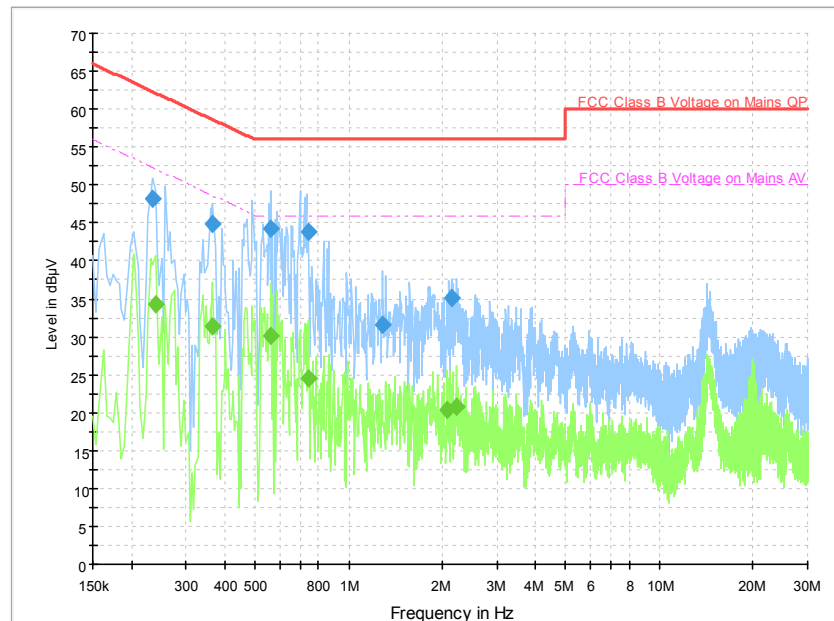


Fig.C.2.2 AC Powerline Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.234000	48.2	5000.0	9.000	On	L1	20.0	14.1	62.3
0.366000	44.8	5000.0	9.000	On	L1	19.9	13.8	58.6
0.562000	44.2	5000.0	9.000	On	L1	19.9	11.8	56.0
0.738000	43.7	5000.0	9.000	On	L1	19.7	12.3	56.0
1.282000	31.5	5000.0	9.000	On	N	19.8	24.5	56.0
2.134000	35.1	5000.0	9.000	On	L1	19.5	20.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.238000	34.2	5000.0	9.000	On	L1	20.0	18.0	52.2
0.366000	31.3	5000.0	9.000	On	L1	19.9	17.3	48.6
0.562000	30.0	5000.0	9.000	On	L1	19.9	16.0	46.0
0.746000	24.5	5000.0	9.000	On	N	19.8	21.5	46.0
2.074000	20.5	5000.0	9.000	On	L1	19.5	25.5	46.0
2.218000	20.8	5000.0	9.000	On	L1	19.5	25.2	46.0

*** END OF REPORT BODY ***