



FCC PART 15E TEST REPORT No.23T04Z80961-11

for

Wingtech Group (Hong Kong) Limited

5G Mobile Phone

TMRV075G

FCC ID:2APXW-TMRV075G

with

Hardware Version: V1.0

Software Version: TMRV075G_0.03.03

Issued Date: 2024-03-04

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80961-11	Rev.0	1st edition	2024-03-04

Note: the latest revision of the test report supersedes all previous version.

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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 American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

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

1.3. TestingEnvironment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2023-12-27

Testing End Date: 2024-03-04

1.5. Signature

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Yao Xingyu
(Prepared this test report)

郑伟

Zheng Wei
(Reviewed this test report)

庞帅

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(Approved this test report)

2. Client Information

2.1. Applicant Information

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Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

2.2. Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	5G Mobile Phone
Model name	TMRV075G
FCC ID	2APXW-TMRV075G
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Nominal Voltage	3.87V
Extreme High Voltage	4.45V
Extreme Low Voltage	3.6V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT30a	862503070011333/ 862503070011325	V1.0	TMRV075G_0.03.03	2023-12-29
UT88a	862503070027362/ 862503070027370	V1.0	TMRV075G_0.03.03	2024-01-22

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

UT30a is used for Conduction test, UT88a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacture
AE1	Battery1	TM002	SCUD (FUJIAN) Electronics Co., Ltd.
AE2	USB Cable1	USB AM TO TYPE-C2.0	Huizhou Washin Electronics Co., LTD
AE3	PC	/	/

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

3.4. General Description

Equipment Under Test (EUT) is a model of 5G Mobile Phone with integrated antenna. It consists of normal options: Battery and Charger.

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

Samples undergoing test were selected by the Client.

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.

	FCC CFR 47, Part 15, Subpart C and E:	
FCC Part15	15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. Laboratory Environment

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
Occupied 6dB Bandwidth	15.407 (e)	/	P
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

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

Temperature	26°C
Voltage	3.87V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-07-04
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2024-03-06
3	Test Receiver	ESCI	100344	R&S	1 year	2024-03-20
4	LISN	ENV216	101200	R&S	1 year	2024-07-04
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	R&S	1 year	2024-07-08
2	EMI Antenna	VULB 9163	01222	SCHWARZBECK	1 year	2024-02-28
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2024-04-25
4	EMI Antenna	3116	2661	ETS-Lindgren	1 year	2024-03-28

※ Note: The EMI Antenna with series number of 01222 and 2661 did not exceed the CAL.DUE.DATE when used.

8. Measurement Uncertainty

8.1. Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. 6dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

8.5. Radiated Unwanted Emission

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

8.6. AC Power-line Conducted Emission

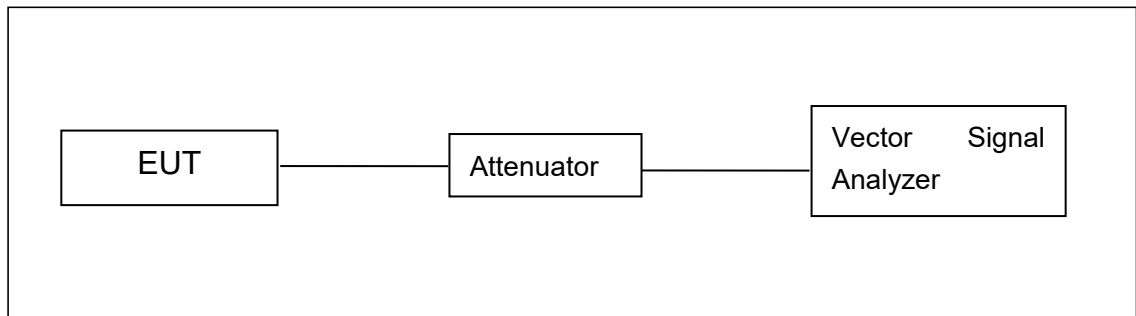
Measurement Uncertainty : 3.08dB,k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10-2013 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. 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 from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Set RBW = 1 MHz.

Set VBW $\geq$ 3 MHz.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.

Sweep time = auto.

Detector = power averaging (rms)

Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal. Add 10 log (1/x), where x is the duty cycle

A.2.1 Antenna Gain

Antenna gain is 0.1dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

EUT ID: UT30a

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	19.65	19.69	19.67

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n (20MHz)	MCS0	19.58	19.46	19.46

The data rate MCS0 is selected as worst condition, and the following cases are performed with

this condition.

802.11ac-VHT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac (20MHz)	MCS0	17.28	17.02	16.95

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11n (40MHz)	MCS0	16.81	16.59

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	15.69	15.51

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ac (80MHz)	MCS0	15.62

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are

Mode	802.11a	802.11n20	802.11ac20	802.11n40	802.11ac40	802.11ac80
Duty Cycle	98%	98%	98%	98%	98%	98%



13:59:30 05.03.2024

Maximum output Power: 11a CH157

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Set RBW = 500 kHz.

Set VBW $\geq$ 3 MHz.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.

Sweep time = auto.

Detector = power averaging (rms)

Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter. Use the peak search function on the instrument to find the peak of the spectrum and record its value. Add $10 \log (1/x)$, where x is the duty cycle.

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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EUT ID: UT30a

Measurement Results:

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	5.27	P
	157	5.33	P
	165	5.36	P
802.11n HT20	149	5.09	P
	157	4.89	P
	165	4.99	P
802.11n HT40	151	-0.62	P
	159	-0.73	P
802.11ac VHT80	155	-5.22	P



Peak Power Spectral Density:11a CH165

Conclusion: PASS

A.4. 6dB Emission Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.407 (e)	≥ 500

Set RBW = 100 kHz.

Set the video bandwidth (VBW) $\geq 3 \times$ RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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EUT ID: UT30a

Measurement Result:

Mode	Channel	6dB Emission Bandwidth (MHz)		conclusion
802.11a	149	Fig.1	16.32	P
	157	Fig.2	16.32	P
	165	Fig.3	16.36	P

802.11n HT20	149	Fig.4	17.60	P
	157	Fig.5	17.60	P
	165	Fig.6	17.60	P
802.11n HT40	151	Fig.7	36.40	P
	159	Fig.8	36.40	P
802.11ac (VHT80)	155	Fig.9	76.32	P

Test graphs as below:

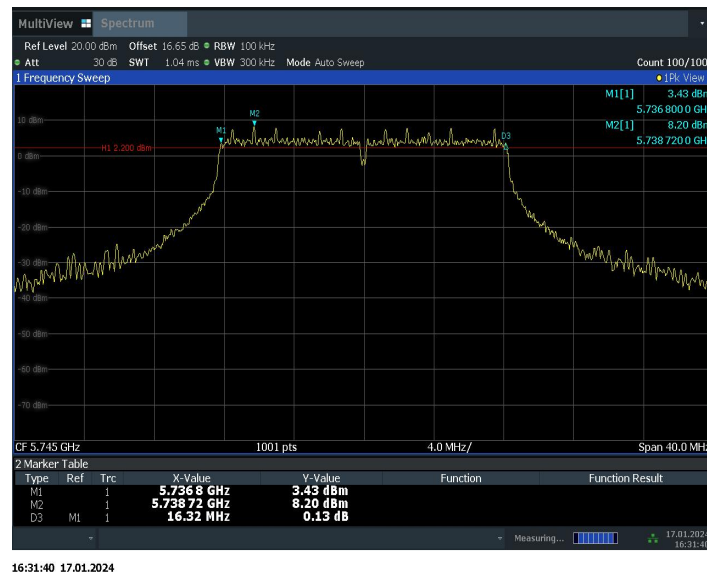


Fig. 1 6dB Emission Bandwidth (802.11a, Ch 149)

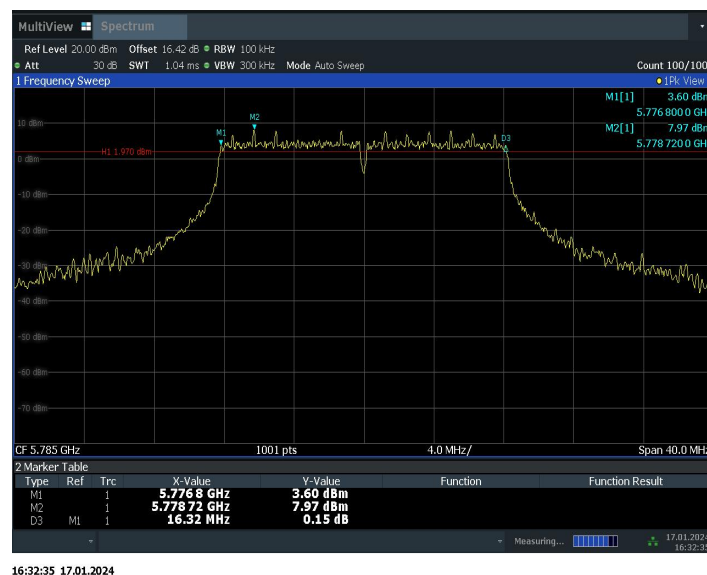
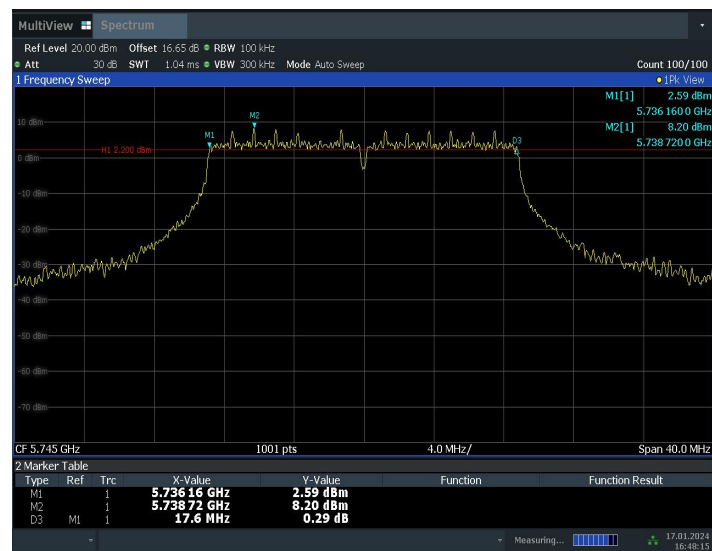


Fig. 2 6dB Emission Bandwidth (802.11a, Ch 157)



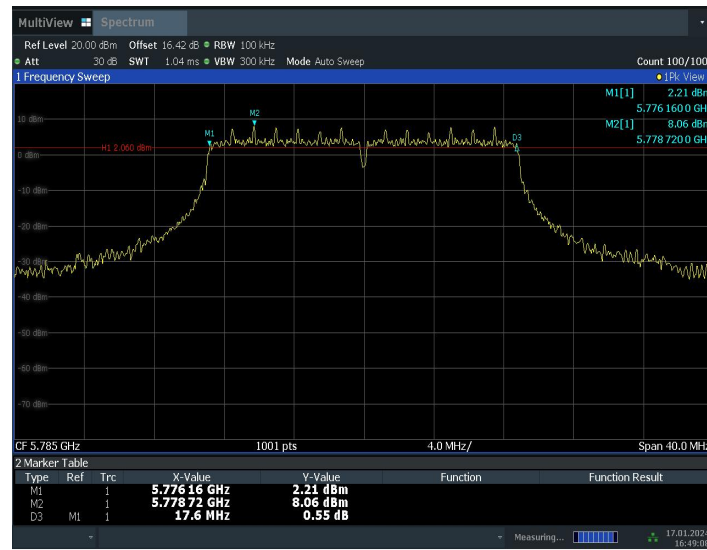
16:33:32 17.01.2024

Fig. 3 6dB Emission Bandwidth (802.11a, Ch 165)



16:48:15 17.01.2024

Fig. 4 6dB Emission Bandwidth (802.11n-HT20, Ch 149)



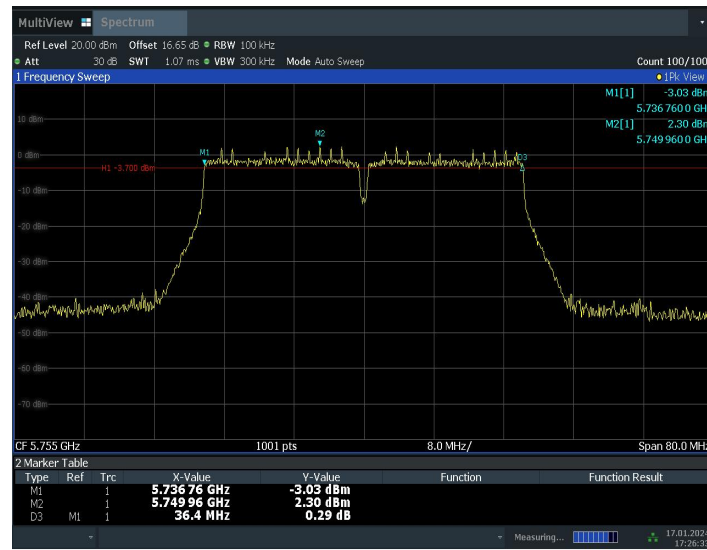
16:49:08 17.01.2024

Fig. 5 6dB Emission Bandwidth (802.11n-HT20, Ch 157)



16:50:07 17.01.2024

Fig. 6 6dB Emission Bandwidth (802.11n-HT20, Ch 165)



17:26:33 17.01.2024

Fig. 7 6dB Emission Bandwidth (802.11n-HT40, Ch 151)



17:27:32 17.01.2024

Fig. 8 6dB Emission Bandwidth (802.11n-HT40, Ch 159)



Fig. 9 6dB Emission Bandwidth (802.11ac-VHT80, Ch 155)

Conclusion: PASS

A.5. Radiated Unwanted Emission

A.5.1 Limits

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: Increasing linearly from point to point.	

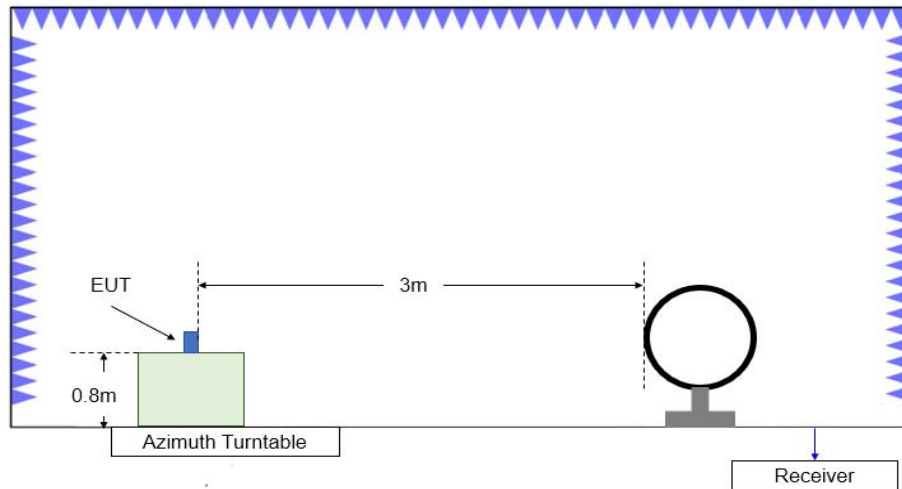
In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

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

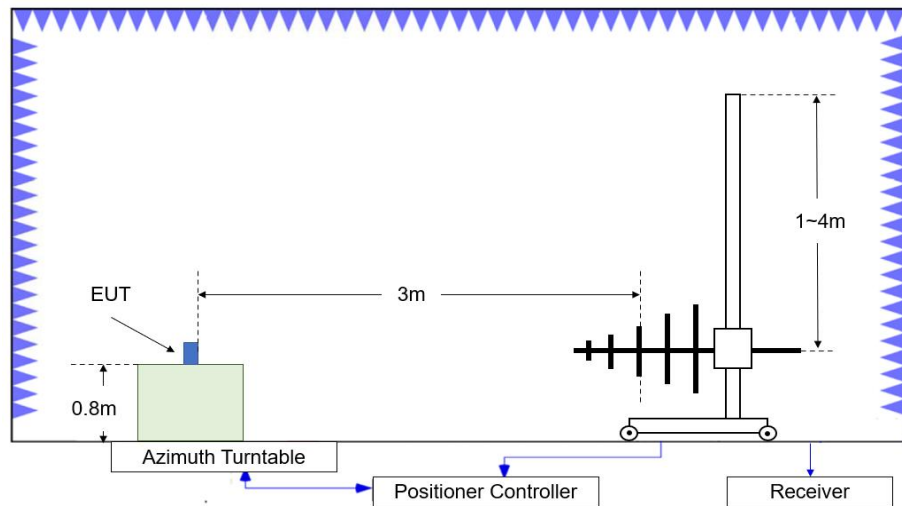
Frequency of emission (MHz)	Field strength (μ V/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

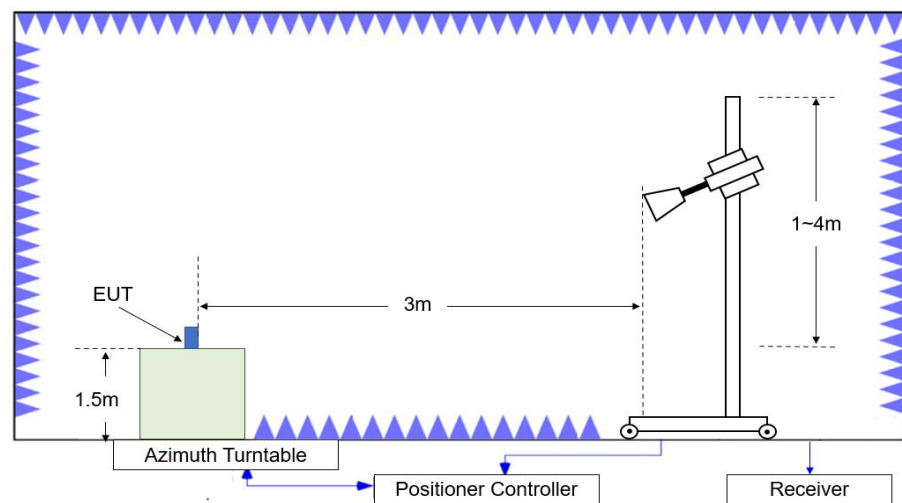
A.5.2 Test setup



Test Site Diagram (9kHz-30MHz)



Test Site Diagram (30MHz-1GHz)



Test Site Diagram (1GHz-40GHz)

A.5.3 Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10 and KDB 789033 D02 v02r01.

Test setting

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

A.5.4 Calculation

1. The measurement results reported below is calculated by:

Measurement Results (dB μ V/m) = $P_{\text{measurement}}$ (dB μ V) + Cable Loss(dB) + Antenna Factor (dB/m)

Where: $P_{\text{measurement}}$ is the field strength recorded from the instrument

2. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dB μ V/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dBm

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept.
5. EUT in each of three orthogonal axis emissions had been tested out only the worst case (axis data) recorded in the report.
6. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.
7. No spurious emissions were detected within 20dB of the limit below 30MHz. OFS and semi-chamber comparison testing had been performed and the result came out very similar. (KDB 414788)

Note:

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.

Conclusion: PASS

Average Results:

802.11a

Channel 149

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)
17873.500	41.02	-29.59	45.95	24.66	54.00	12.98	H
17940.967	40.85	-29.59	45.95	24.49	54.00	13.15	V
12329.867	37.85	-32.39	38.95	31.29	54.00	16.15	V
12310.800	37.64	-32.12	39.00	30.76	54.00	16.36	V
8497.467	33.16	-34.28	37.30	30.14	54.00	20.84	V
8487.200	32.99	-34.28	37.30	29.97	54.00	21.01	V

Channel 157

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)
17938.400	41.42	-29.59	45.95	25.06	54.00	12.58	V
17938.767	41.36	-29.59	45.95	25.00	54.00	12.64	V
12331.700	37.98	-32.39	38.95	31.42	54.00	16.02	H
12331.333	37.71	-32.39	38.95	31.15	54.00	16.29	H
8497.467	33.56	-34.28	37.30	30.54	54.00	20.44	H
8497.833	33.52	-34.28	37.30	30.50	54.00	20.48	H

Channel 165

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)
17942.433	41.52	-29.59	45.95	25.16	54.00	12.48	V
17976.167	41.32	-29.59	45.95	24.96	54.00	12.68	V
12330.233	37.96	-32.39	38.95	31.40	54.00	16.04	V
12333.167	37.95	-32.39	38.95	31.39	54.00	16.05	V
8490.500	33.97	-34.28	37.30	30.95	54.00	20.03	V
8495.267	33.66	-34.28	37.30	30.64	54.00	20.34	V

802.11n-HT20
Channel 149

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)
17958.200	40.91	-29.59	45.95	24.55	54.00	13.09	H
17938.033	40.90	-29.59	45.95	24.54	54.00	13.10	H
12332.800	38.51	-32.39	38.95	31.95	54.00	15.49	H
12330.600	38.05	-32.39	38.95	31.49	54.00	15.95	V
8493.433	34.26	-34.28	37.30	31.24	54.00	19.74	H
8495.633	33.65	-34.28	37.30	30.63	54.00	20.35	V

Channel 157

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)
17972.867	41.41	-29.59	45.95	25.05	54.00	12.59	H
17954.900	41.16	-29.59	45.95	24.80	54.00	12.84	V
12311.900	38.26	-32.12	39.00	31.38	54.00	15.74	V
12330.233	38.17	-32.39	38.95	31.61	54.00	15.83	H
8196.433	33.69	-34.94	36.90	31.73	54.00	20.31	H
8491.233	33.51	-34.28	37.30	30.49	54.00	20.49	V

Channel 165

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)
17941.333	41.31	-29.59	45.95	24.95	54.00	12.69	H
17956.367	41.28	-29.59	45.95	24.92	54.00	12.72	V
12329.133	38.19	-32.39	38.95	31.63	54.00	15.81	H
12312.267	38.07	-32.12	39.00	31.19	54.00	15.93	H
8350.800	33.74	-34.93	37.20	31.47	54.00	20.26	V
8343.467	33.38	-34.93	37.20	31.11	54.00	20.62	H

802.11n-HT40

Channel 151

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)
17902.833	41.02	-29.59	45.95	24.66	54.00	12.98	V
17953.800	40.98	-29.59	45.95	24.62	54.00	13.02	V
12310.800	37.66	-32.12	39.00	30.78	54.00	16.34	V
12332.433	37.46	-32.39	38.95	30.90	54.00	16.54	V
8494.900	33.07	-34.28	37.30	30.05	54.00	20.93	H
8426.700	33.00	-34.69	37.40	30.29	54.00	21.00	V

Channel 159

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)
17905.400	41.16	-29.59	45.95	24.80	54.00	12.84	H
17951.967	40.93	-29.59	45.95	24.57	54.00	13.07	H
12331.700	38.19	-32.39	38.95	31.63	54.00	15.81	H
12332.433	38.14	-32.39	38.95	31.58	54.00	15.86	H
8485.733	33.26	-34.28	37.30	30.24	54.00	20.74	H
8493.067	33.19	-34.28	37.30	30.17	54.00	20.81	H

802.11ac-VHT20

Channel 149

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)
17979.100	40.96	-29.59	45.95	24.60	54.00	13.04	H
17979.833	40.94	-29.59	45.95	24.58	54.00	13.06	V
12332.067	37.96	-32.39	38.95	31.40	54.00	16.04	V
12329.500	37.70	-32.39	38.95	31.14	54.00	16.30	V
8498.567	33.78	-34.28	37.30	30.76	54.00	20.22	H
8493.800	33.62	-34.28	37.30	30.60	54.00	20.38	H

Channel 157

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)
17948.300	40.89	-29.59	45.95	24.53	54.00	13.11	H
17982.767	40.77	-29.59	45.95	24.41	54.00	13.23	H
12332.433	38.14	-32.39	38.95	31.58	54.00	15.86	H
12306.767	37.73	-32.12	39.00	30.85	54.00	16.27	H
8461.533	33.72	-34.69	37.40	31.01	54.00	20.28	H
8493.067	33.45	-34.28	37.30	30.43	54.00	20.55	V

Channel 165

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)
17938.400	41.02	-29.59	45.95	24.66	54.00	12.98	V
17934.733	40.92	-29.59	45.95	24.56	54.00	13.08	H
12332.067	37.93	-32.39	38.95	31.37	54.00	16.07	H
12330.600	37.57	-32.39	38.95	31.01	54.00	16.43	H
8499.667	33.27	-34.28	37.30	30.25	54.00	20.73	V
8471.433	33.23	-34.28	37.30	30.21	54.00	20.77	H

802.11ac-VHT40

Channel 151

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)
17932.900	41.56	-29.59	45.95	25.20	54.00	12.44	H
17937.300	41.37	-29.59	45.95	25.01	54.00	12.63	V
12330.967	38.05	-32.39	38.95	31.49	54.00	15.95	V
12263.867	37.89	-32.37	38.95	31.31	54.00	16.11	H
8486.833	33.25	-34.28	37.30	30.23	54.00	20.75	H
8491.233	33.10	-34.28	37.30	30.08	54.00	20.90	V

Channel 159

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)
17911.267	41.08	-29.59	45.95	24.72	54.00	12.92	V
17942.067	40.91	-29.59	45.95	24.55	54.00	13.09	H
12330.967	38.16	-32.39	38.95	31.60	54.00	15.84	H
12330.233	37.74	-32.39	38.95	31.18	54.00	16.26	V
8490.133	33.79	-34.28	37.30	30.77	54.00	20.21	H
8494.167	33.33	-34.28	37.30	30.31	54.00	20.67	V

802.11ac-VHT80

Channel 155

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)
17928.133	41.39	-29.59	45.95	25.03	54.00	12.61	H
17971.400	41.33	-29.59	45.95	24.97	54.00	12.67	H
12308.600	38.14	-32.12	39.00	31.26	54.00	15.86	H
12332.067	38.09	-32.39	38.95	31.53	54.00	15.91	H
8304.967	33.53	-34.84	37.10	31.26	54.00	20.47	H
8495.267	33.50	-34.28	37.30	30.48	54.00	20.50	H

Peak Results:
802.11a

Channel 149

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)
17936.200	49.88	-29.59	45.95	33.52	74.00	24.12	H
17935.100	49.11	-29.59	45.95	32.75	74.00	24.89	V
12319.233	45.88	-32.12	39.00	39.00	74.00	28.12	V
12332.800	45.83	-32.39	38.95	39.27	74.00	28.17	V
10310.267	43.28	-33.88	38.00	39.16	68.20	24.92	V
10259.667	43.05	-33.82	38.00	38.87	68.20	25.15	V

Channel 157

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)
17939.133	49.75	-29.59	45.95	33.39	74.00	24.25	V
17909.433	49.74	-29.59	45.95	33.38	74.00	24.26	H
12332.800	46.37	-32.39	38.95	39.81	74.00	27.63	H
12306.400	46.11	-32.12	39.00	39.23	74.00	27.89	H
10219.333	43.72	-34.09	38.00	39.81	68.20	24.48	H
10147.467	43.46	-34.28	38.10	39.64	68.20	24.74	H

Channel 165

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)
17907.600	49.96	-29.59	45.95	33.60	74.00	24.04	V
17951.967	49.47	-29.59	45.95	33.11	74.00	24.53	V
12304.567	46.67	-32.12	39.00	39.79	74.00	27.33	V
12328.400	46.18	-32.39	38.95	39.62	74.00	27.82	V
10298.167	43.44	-33.88	38.00	39.32	68.20	24.76	V
10181.200	43.06	-33.67	38.05	38.68	68.20	25.14	V

802.11n-HT20
Channel 149

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)
17942.433	49.57	-29.59	45.95	33.21	74.00	24.43	H
17943.533	49.53	-29.59	45.95	33.17	74.00	24.47	H
12303.833	46.68	-32.12	39.00	39.80	74.00	27.32	V
12332.433	46.08	-32.39	38.95	39.52	74.00	27.92	H
9607.000	43.48	-34.18	37.60	40.06	68.20	24.72	V
10061.300	43.35	-33.75	38.05	39.05	68.20	24.85	H

Channel 157

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)
17959.667	50.16	-29.59	45.95	33.80	74.00	23.84	V
17950.133	49.71	-29.59	45.95	33.35	74.00	24.29	H
12330.233	46.40	-32.39	38.95	39.84	74.00	27.60	H
12332.433	46.31	-32.39	38.95	39.75	74.00	27.69	H
10063.500	43.82	-33.75	38.05	39.52	68.20	24.38	H
10099.800	43.22	-34.28	38.10	39.40	68.20	24.98	H

Channel 165

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)
17914.933	50.22	-29.59	45.95	33.86	74.00	23.78	V
17976.900	49.79	-29.59	45.95	33.43	74.00	24.21	V
12329.867	46.99	-32.39	38.95	40.43	74.00	27.01	H
12330.233	46.39	-32.39	38.95	39.83	74.00	27.61	V
10253.067	43.73	-33.82	38.00	39.55	68.20	24.47	H
10141.233	43.19	-34.28	38.10	39.37	68.20	25.01	V

802.11n-HT40

Channel 151

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)
17976.533	49.78	-29.59	45.95	33.42	74.00	24.22	V
17961.133	49.33	-29.59	45.95	32.97	74.00	24.67	V
11507.800	45.73	-32.80	39.10	39.43	74.00	28.27	H
12332.067	45.51	-32.39	38.95	38.95	74.00	28.49	V
10116.667	43.16	-34.28	38.10	39.34	68.20	25.04	V
10249.033	42.96	-33.82	38.00	38.78	68.20	25.24	V

Channel 159

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)
17910.533	49.62	-29.59	45.95	33.26	74.00	24.38	V
17940.967	49.44	-29.59	45.95	33.08	74.00	24.56	V
12331.700	47.27	-32.39	38.95	40.71	74.00	26.73	H
12305.300	46.06	-32.12	39.00	39.18	74.00	27.94	H
10142.333	43.51	-34.28	38.10	39.69	68.20	24.69	V
10085.133	43.29	-33.75	38.05	38.99	68.20	24.91	H

802.11ac-VHT20

Channel 149

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)
17954.533	49.40	-29.59	45.95	33.04	74.00	24.60	H
17944.633	49.26	-29.59	45.95	32.90	74.00	24.74	H
12332.067	46.11	-32.39	38.95	39.55	74.00	27.89	V
12327.667	45.88	-32.39	38.95	39.32	74.00	28.12	V
10286.800	43.00	-33.82	38.00	38.82	68.20	25.20	H
10150.767	42.73	-33.67	38.05	38.35	68.20	25.47	V

Channel 157

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)
17363.833	50.74	-28.74	43.40	36.08	68.20	17.46	H
17867.633	49.04	-29.59	45.95	32.68	74.00	24.96	V
12310.800	46.37	-32.12	39.00	39.49	74.00	27.63	V
12308.233	45.82	-32.12	39.00	38.94	74.00	28.18	V
9971.467	42.72	-34.00	37.95	38.77	68.20	25.48	H
9623.133	42.54	-34.18	37.60	39.12	68.20	25.66	H

Channel 165

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)
17340.000	49.19	-28.74	43.40	34.53	68.20	19.01	V
17937.667	49.09	-29.59	45.95	32.73	74.00	24.91	H
12326.200	46.13	-32.12	39.00	39.25	74.00	27.87	H
12269.000	45.92	-32.37	38.95	39.34	74.00	28.08	H
10153.333	44.06	-33.67	38.05	39.68	68.20	24.14	H
10221.900	43.38	-34.09	38.00	39.47	68.20	24.82	H

802.11ac-VHT40

Channel 151

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)
17940.600	50.01	-29.59	45.95	33.65	74.00	23.99	V
17885.600	49.96	-29.59	45.95	33.60	74.00	24.04	V
12329.500	47.40	-32.39	38.95	40.84	74.00	26.60	H
12332.433	46.01	-32.39	38.95	39.45	74.00	27.99	H
10291.567	43.06	-33.82	38.00	38.88	68.20	25.14	V
9593.433	42.96	-34.13	37.50	39.59	68.20	25.24	V

Channel 159

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)
17938.767	50.41	-29.59	45.95	34.05	74.00	23.59	V
17942.800	49.40	-29.59	45.95	33.04	74.00	24.60	V
12329.133	46.28	-32.39	38.95	39.72	74.00	27.72	V
12319.600	46.19	-32.12	39.00	39.31	74.00	27.81	H
10151.867	43.83	-33.67	38.05	39.45	68.20	24.37	V
10122.900	42.80	-34.28	38.10	38.98	68.20	25.40	V

802.11ac-VHT80

Channel 155

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)
17928.133	50.47	-29.59	45.95	34.11	74.00	23.53	H
17980.933	50.11	-29.59	45.95	33.75	74.00	23.89	H
12307.867	46.49	-32.12	39.00	39.61	74.00	27.51	H
12290.633	46.46	-32.12	39.00	39.58	74.00	27.54	H
10135.733	43.33	-34.28	38.10	39.51	68.20	24.87	H
10306.233	43.09	-33.88	38.00	38.97	68.20	25.11	H

Band edge compliance

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.10	P
	5825 MHz	Fig.11	P
802.11n HT20	5745 MHz	Fig.12	P
	5825 MHz	Fig.13	P
802.11n HT40	5755 MHz	Fig.14	P
	5795 MHz	Fig.15	P
802.11ac VHT20	5745 MHz	Fig.16	P
	5825 MHz	Fig.17	P
802.11ac VHT40	5755 MHz	Fig.18	P
	5795 MHz	Fig.19	P
802.11ac VHT80	5775 MHz	Fig.20 Fig.21	P

Conclusion: PASS

Test graphs as below:

Conclusion: PASS

Test graphs as below:

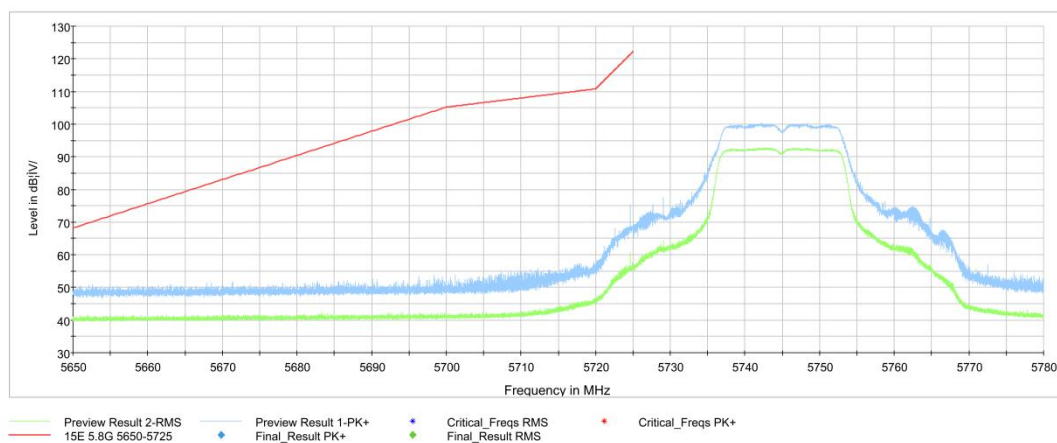


Fig. 10 Band Edges (802.11a Ch149,5745MHz)

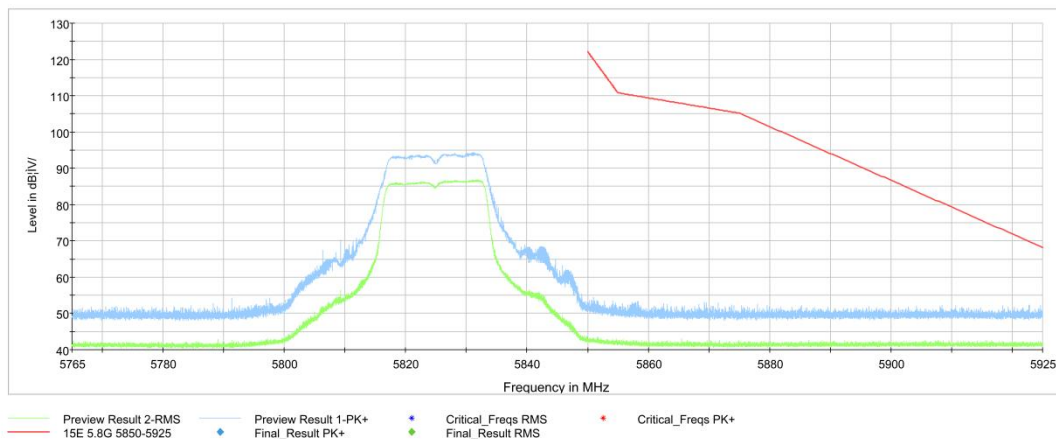


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

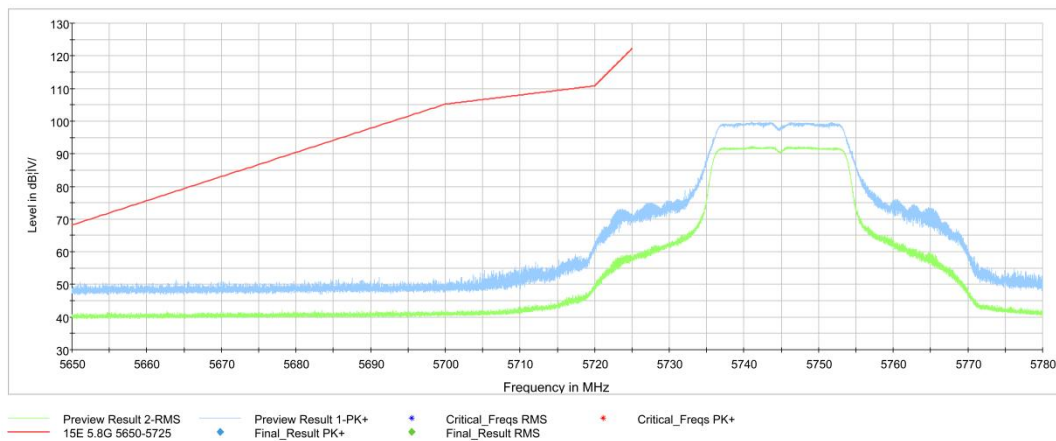


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

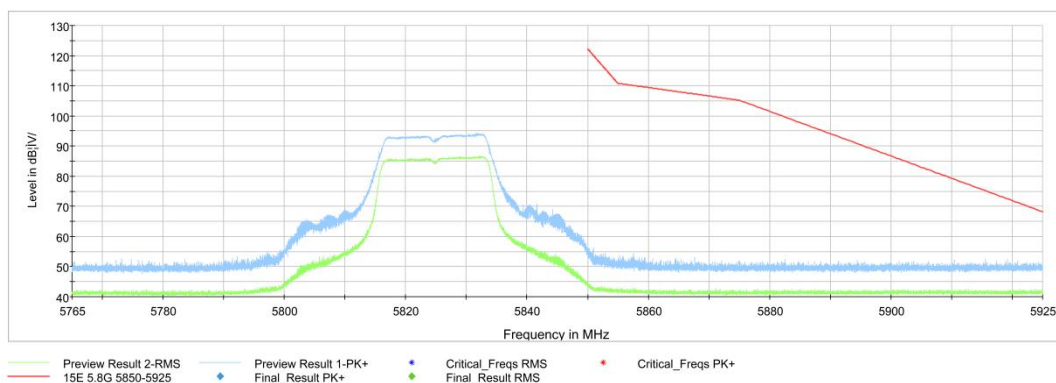


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

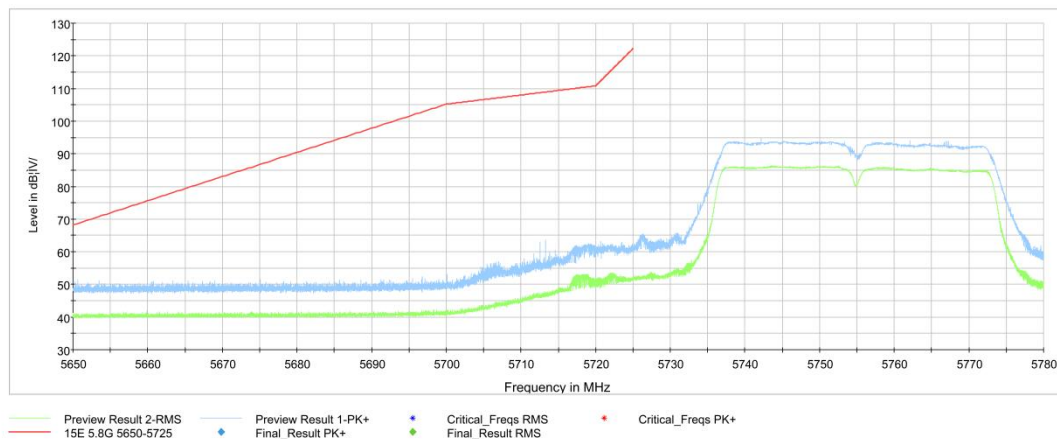


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

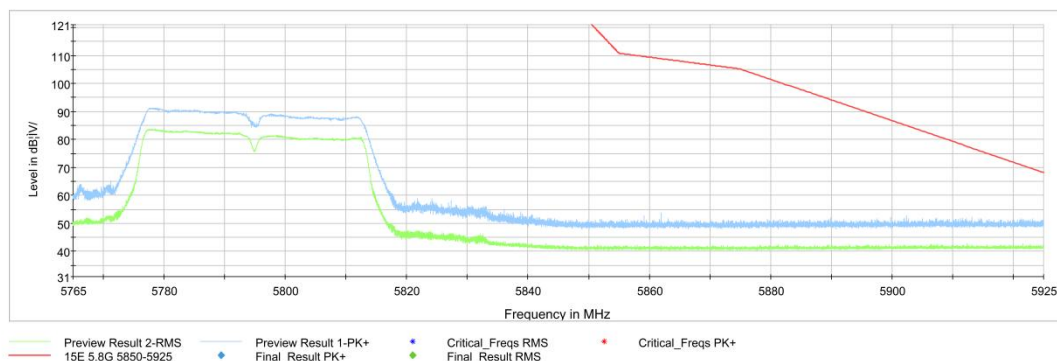


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

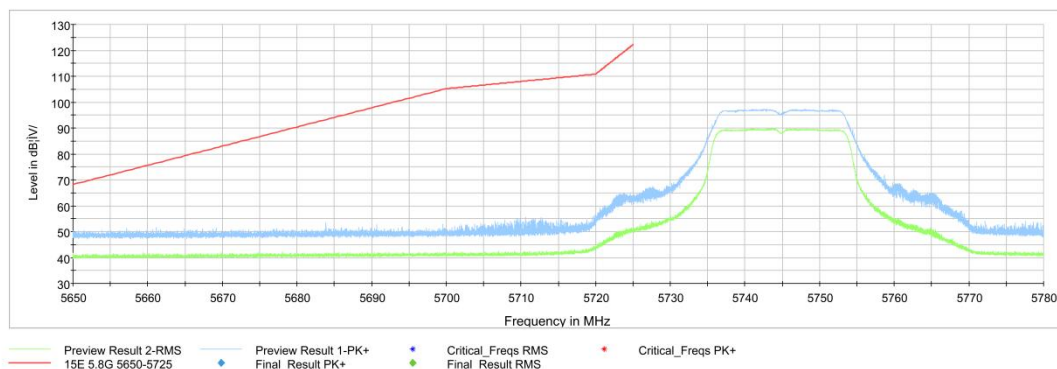


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

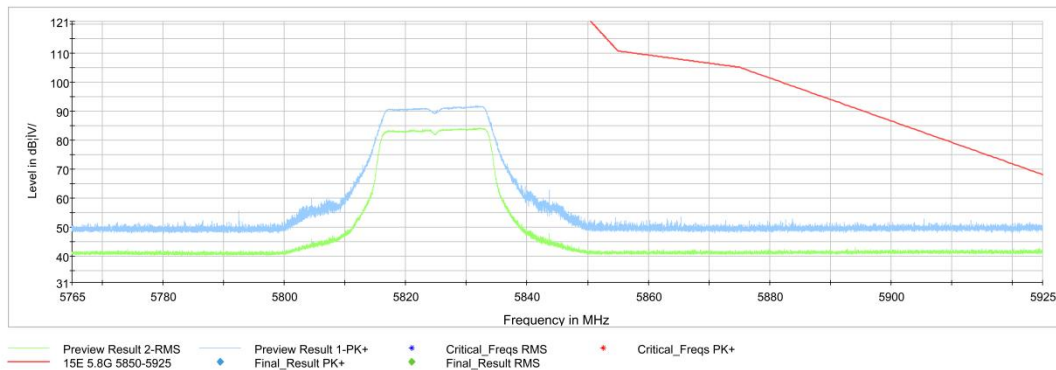


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

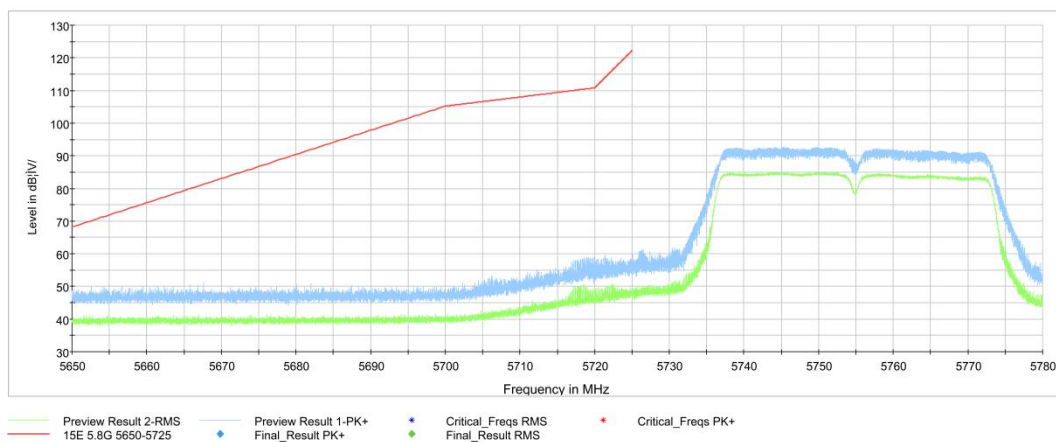


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

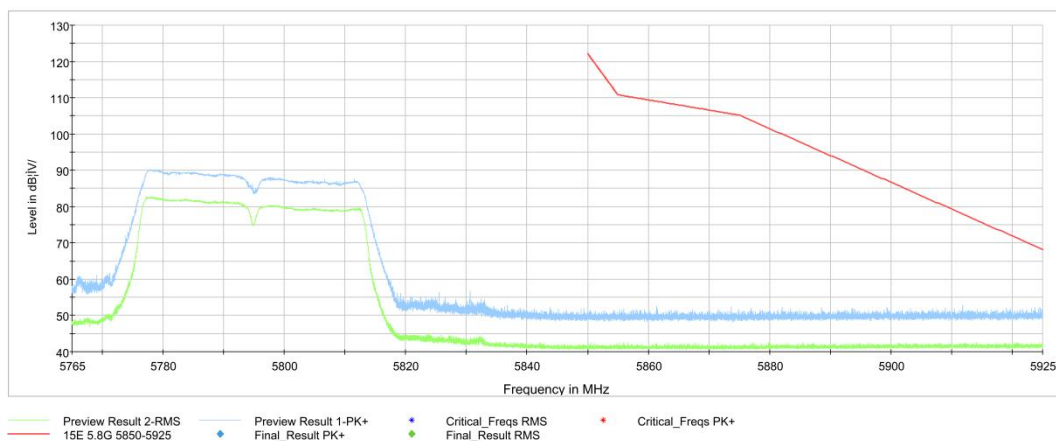


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

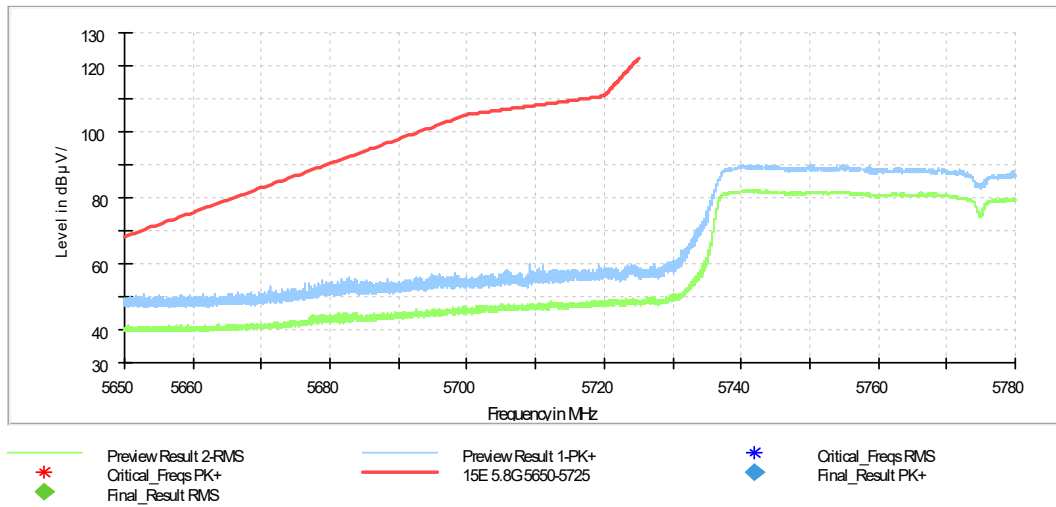


Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

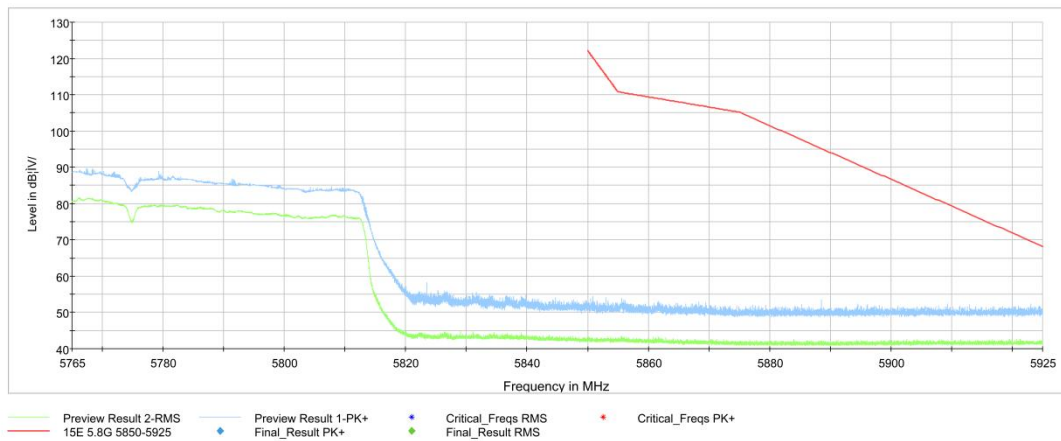


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

A.6. AC Powerline Conducted Emission

A.6.1 Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

A.6.2 Method of Measurement

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 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.

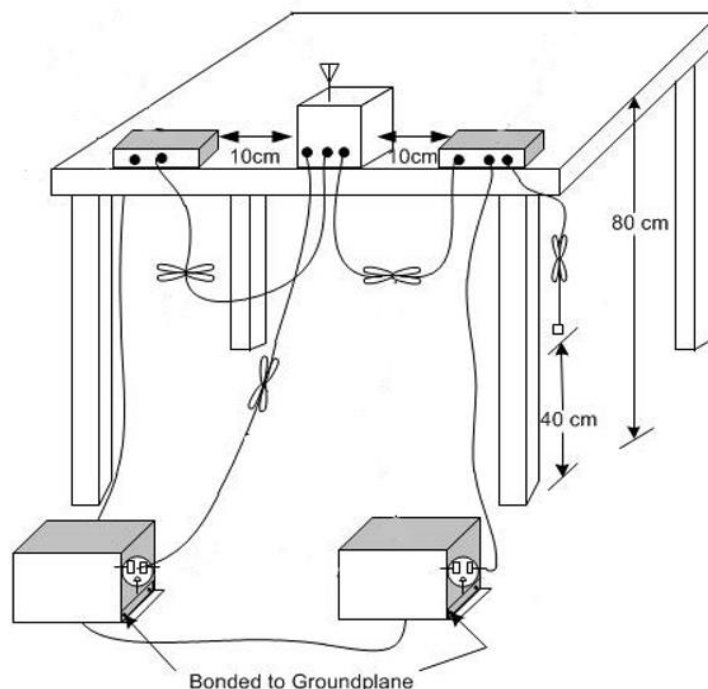
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

A.6.3 Test Condition

Voltage (V)	Frequency (Hz)
120	60

A.6.4 Test setup



A.6.5 Measurement Result and limit

Wi-Fi (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		Wi-Fi	Idle	
0.15 to 0.5	66 to 56	Fig.A.6.1	Fig. A.6.2	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.

Wi-Fi (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		Wi-Fi	Idle	
0.15 to 0.5	56 to 46	Fig.A.6.1	Fig. A.6.2	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.

Conclusion: Pass

Test graphs as below:

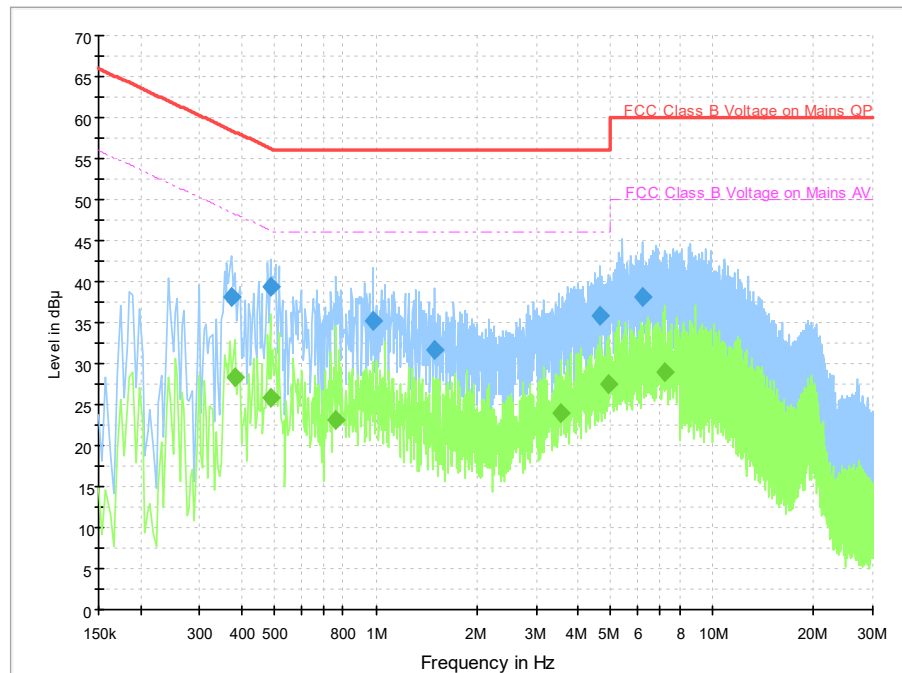


Fig.A.6.1. AC Powerline Conducted Emission-Traffic

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.374000	38.1	2000.0	9.000	On	L1	19.7	20.3	58.4	
0.486000	39.5	2000.0	9.000	On	L1	19.7	16.8	56.2	
0.982000	35.2	2000.0	9.000	On	L1	19.7	20.8	56.0	
1.494000	31.6	2000.0	9.000	On	L1	19.6	24.4	56.0	
4.622000	35.9	2000.0	9.000	On	L1	19.6	20.1	56.0	
6.226000	38.1	2000.0	9.000	On	L1	19.6	21.9	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.382000	28.3	2000.0	9.000	On	N	19.7	19.9	48.2	
0.486000	25.9	2000.0	9.000	On	L1	19.7	20.4	46.2	
0.762000	23.2	2000.0	9.000	On	L1	19.7	22.8	46.0	
3.534000	23.9	2000.0	9.000	On	L1	19.6	22.1	46.0	
4.938000	27.5	2000.0	9.000	On	L1	19.6	18.5	46.0	
7.194000	28.9	2000.0	9.000	On	L1	19.7	21.1	50.0	

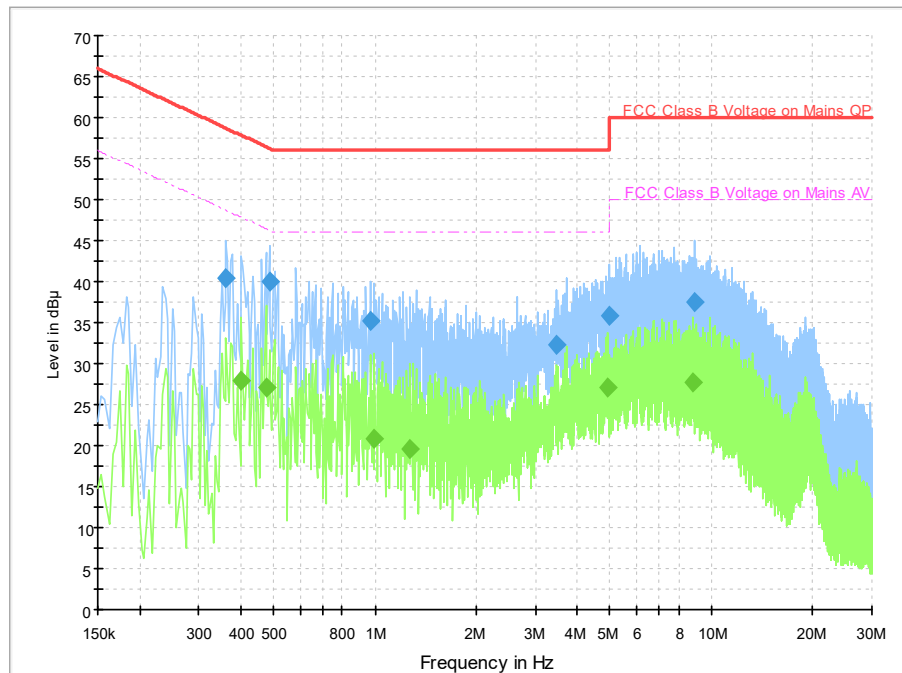


Fig.A.6.2. AC Powerline Conducted Emission-Idle

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.362000	40.5	2000.0	9.000	On	L1	19.7	18.2	58.7	
0.486000	40.1	2000.0	9.000	On	L1	19.7	16.2	56.2	
0.970000	35.2	2000.0	9.000	On	L1	19.7	20.8	56.0	
3.474000	32.3	2000.0	9.000	On	L1	19.6	23.7	56.0	
4.986000	35.9	2000.0	9.000	On	L1	19.6	20.1	56.0	
8.874000	37.4	2000.0	9.000	On	L1	19.7	22.6	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.402000	27.9	2000.0	9.000	On	N	19.7	19.9	47.8	
0.474000	27.0	2000.0	9.000	On	L1	19.7	19.4	46.4	
0.998000	20.9	2000.0	9.000	On	L1	19.7	25.1	46.0	
1.274000	19.6	2000.0	9.000	On	L1	19.6	26.4	46.0	
4.902000	27.1	2000.0	9.000	On	L1	19.6	18.9	46.0	
8.822000	27.8	2000.0	9.000	On	L1	19.7	22.2	50.0	

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case 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 C: Accreditation Certificate



*** END OF REPORT BODY ***