



FCC PART 15E TEST REPORT No.24T04Z103031-008

for

TCL Communication Ltd.

Tablet PC

9185W

FCC ID: 2ACCJB229

with

Hardware Version: 05

Software Version: 4J3M

Issued Date: 2025-03-06

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:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z103031-008	Rev.0	1st edition	2025-03-06

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(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan,
Haidian District, Beijing, China

Radiated testing Location: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

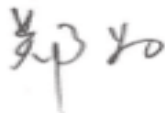
Testing Start Date: 2024-12-31

Testing End Date: 2025-03-06

1.5. Signature



Dong Jiaxuan
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. Client Information

2.1. Applicant Information

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City: Hong Kong
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Contact: Ting Wang
Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: +86 755 3661 2000-81722

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

3.1. About EUT

Description	Tablet PC
Model name	9185W
FCC ID	2ACCJB229
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Nominal Voltage	3.8V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT89a	016645000023444/ 016645000023451	05	4J3M	2025-02-10
UT53a	016645000021653 016645000021703	05	4J3M	2025-02-10

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

UT53a is used for Conduction test, UT89a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Name	Model	Manufacturer
AE1	Battery	TLp058C7	Veken
AE2*	Charger	/	/
AE3	USB cable	CDA0000296C8	PUAN
AE4*	Headset	/	/

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

*AE2 and AE4 are not the AE for EUT, provided by the lab for relevant tests.

3.4. General Description

Equipment Under Test (EUT) is a model of Tablet PC 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;	2021
	15.209 Radiated emission limits, general requirements;	
	15.407 General technical requirements	
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from	2013
	Low-Voltage Electrical and Electronic Equipment in the	
Range of 9 kHz to 40 GHz		
UNII: KDB 789033	General U-NII Test Procedures New Rules v02r01	2017-12
D02		

Note: UNII: KDB 789033 D02 is not in the scope of ISO/IEC 17025 accreditation by A2LA.

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	3.8V
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	2025-08-11
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-30
3	Test Receiver	ESCI	100344	R&S	1 year	2025-04-01
4	LISN	ENV216	101200	R&S	1 year	2025-05-16
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	ESU26	100376	R&S	1 year	2025-06-06
2	Test Receiver	FSV40	101047	R&S	1 year	2025-07-28
3	Loop Antenna	HFH2-Z2	829324/007	R&S	2 years	2026-01-04
4	EMI Antenna	VULB9163	01177	Schwarzbeck	1 year	2025-11-19
5	EMI Antenna	3115	00146404	ETS-Lindgren	1 year	2025-05-16
6	EMI Antenna	3117	00119021	ETS-Lindgren	1 year	2025-09-18
7	EMI Antenna	LB-180400 -25-C-KF	21100840000 06	A-INFO	1 year	2025-05-15

AC Power Line Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101459	R&S	1 year	2025-05-16
2	Test Receiver	ESCI	100766	R&S	1 year	2025-04-18

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. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. 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

8.6. Radiated Unwanted Emission

Frequency Range	Uncertainty(dB)
9kHz-30MHz	3.96
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.73
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

8.7. AC Power-line Conducted Emission

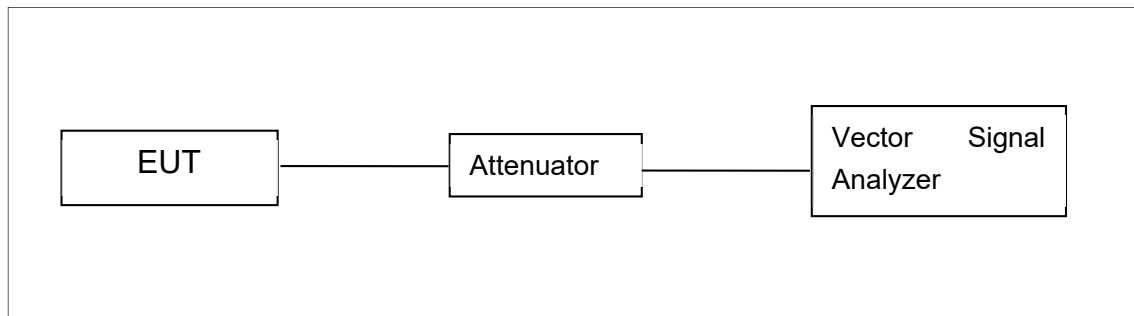
Measurement Uncertainty: 3.10dB, k=2

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 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 -2.7dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

EUT ID: UT53a

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	18.65	18.38	18.29
	9	\	\	\
	12	\	\	\
	18	\	\	\
	24	\	\	\
	36	\	\	\
	48	\	\	\
	54	\	\	\

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	18.33	18.08	17.98
	MCS1	\	\	\
	MCS2	\	\	\
	MCS3	\	\	\
	MCS4	\	\	\
	MCS5	\	\	\
	MCS6	\	\	\
	MCS7	\	\	\

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	16.34	16.10	16.12
	MCS1	\	\	\
	MCS2	\	\	\
	MCS3	\	\	\
	MCS4	\	\	\
	MCS5	\	\	\
	MCS6	\	\	\
	MCS7	\	\	\
	MCS8	\	\	\

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	16.28	15.97
	MCS1	\	\
	MCS2	\	\
	MCS3	\	\
	MCS4	\	\
	MCS5	\	\
	MCS6	\	\
	MCS7	\	\

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	15.20	14.90
	MCS1	\	\
	MCS2	\	\
	MCS3	\	\
	MCS4	\	\
	MCS5	\	\
	MCS6	\	\
	MCS7	\	\
	MCS8	\	\
	MCS9	\	\

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	14.41
	MCS1	\
	MCS2	\
	MCS3	\
	MCS4	\
	MCS5	\
	MCS6	\
	MCS7	\
	MCS8	\
	MCS9	\

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

The duty cycle

TestMode	Antenna	Duty Cycle [%]
11A	Ant1	97.90
11N20SISO	Ant1	96.99
11N40SISO	Ant1	95.59
11AC20SISO	Ant1	97.76
11AC40SISO	Ant1	95.65
11AC80SISO	Ant1	88.89



Maximum output Power

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 ≥ 3 MHz.

Number of points in sweep ≥ 2 × span / 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: UT53a

Measurement Results:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	5.50	≤30.00	PASS
		5785	5.21	≤30.00	PASS
		5825	5.35	≤30.00	PASS
11N20SISO	Ant1	5745	5.17	≤30.00	PASS
		5785	4.98	≤30.00	PASS
		5825	4.79	≤30.00	PASS
11N40SISO	Ant1	5755	0.08	≤30.00	PASS
		5795	-0.16	≤30.00	PASS
11AC80SISO	Ant1	5775	-5.12	≤30.00	PASS

11A_Ant1_5745



Peak Power Spectral Density

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: UT53a

Measurement Result:

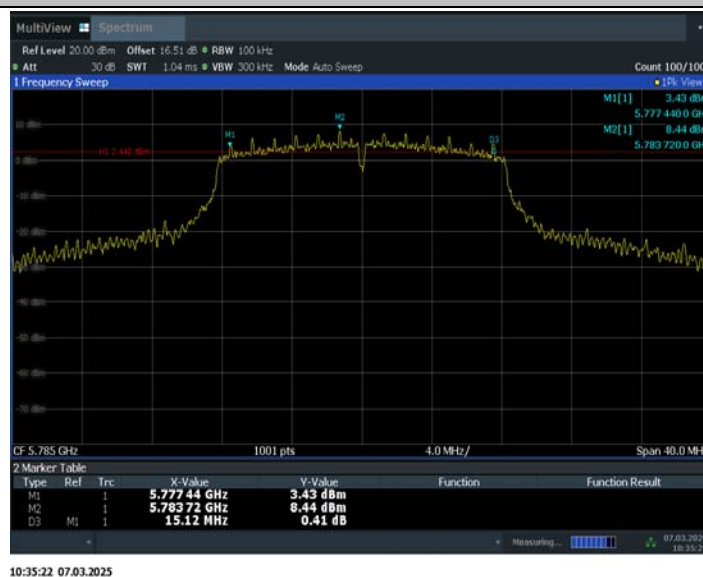
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.32	5737.44	5752.76	0.5	PASS
		5785	15.12	5777.44	5792.56	0.5	PASS
		5825	15.12	5817.44	5832.56	0.5	PASS
11N20SISO	Ant1	5745	13.88	5738.68	5752.56	0.5	PASS
		5785	15.08	5777.48	5792.56	0.5	PASS
		5825	15.12	5817.44	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	76.32	5736.76	5813.08	0.5	PASS

Test graphs as below:

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



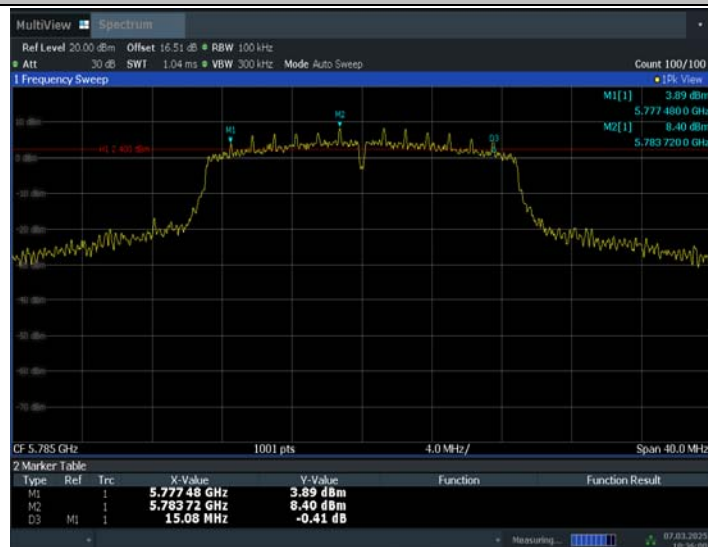
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11N20SISO_Ant1_5745



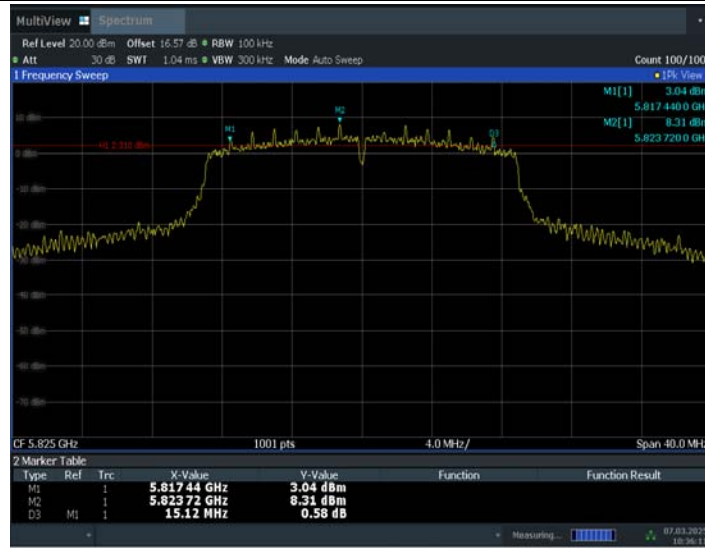
10:35:49 07.03.2025

11N20SISO_Ant1_5785



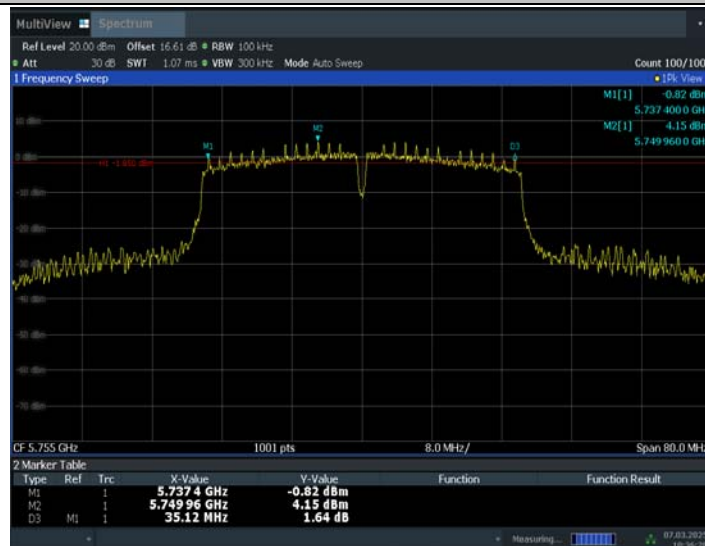
10:36:00 07.03.2025

11N20SISO_Ant1_5825



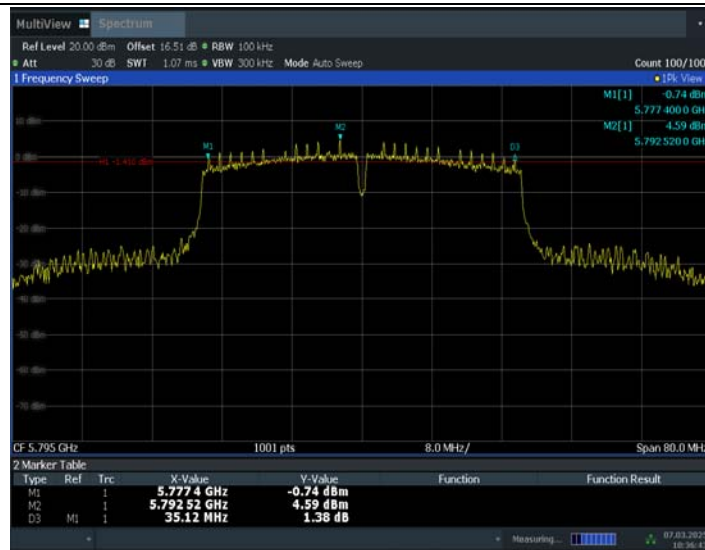
10:36:11 07.03.2025

11N40SISO_Ant1_5755



10:36:29 07.03.2025

11N40SISO_Ant1_5795



10:36:44 07.03.2025

11AC80SISO_Ant1_5775



10:37:58 07.03.2025

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(μV/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 (uV/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

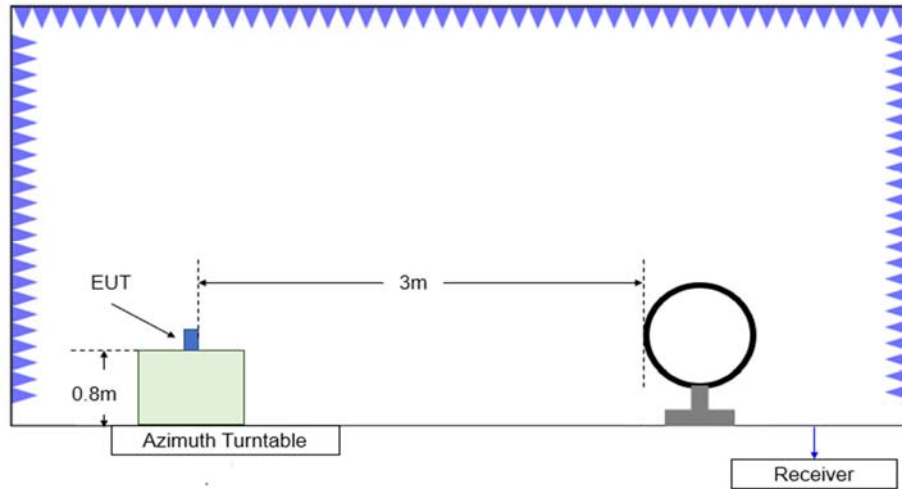


Figure A.5.1. Test Site Diagram (9kHz-30MHz)

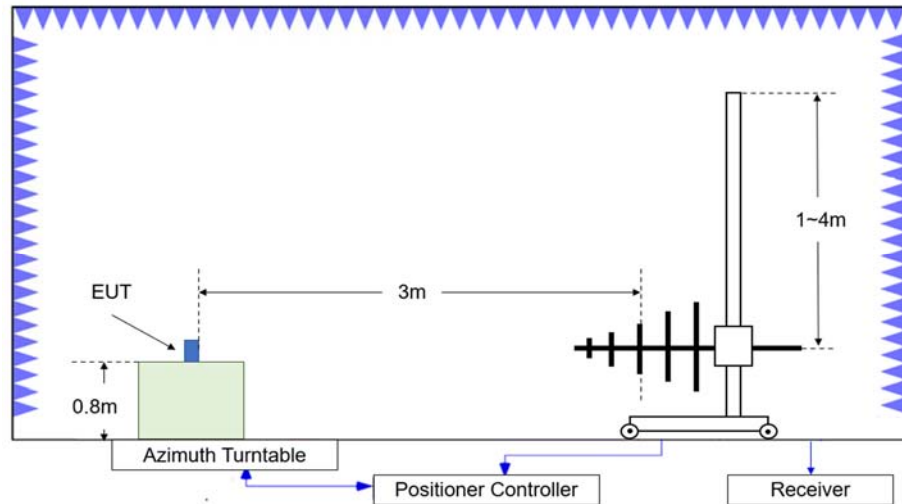


Figure A.5.2. Test Site Diagram (30MHz-1GHz)

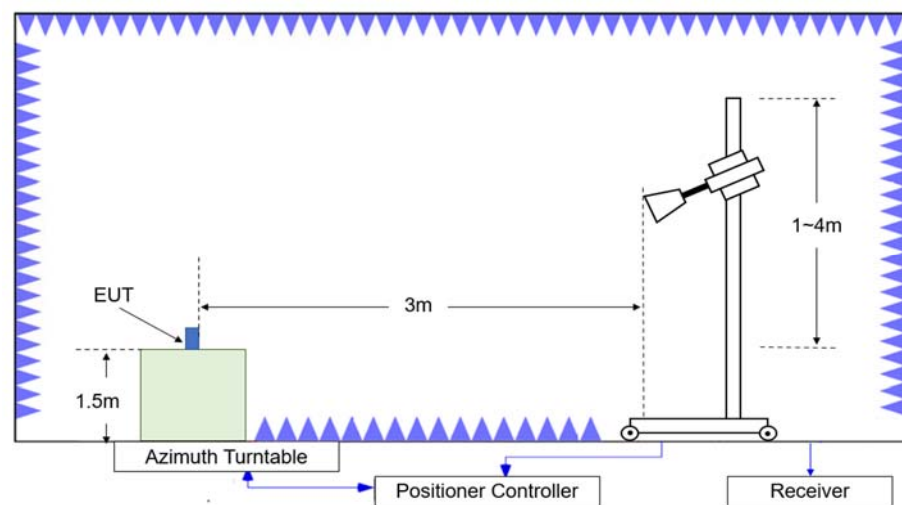


Figure A.5.3. Test Site Diagram (1GHz-40GHz)

A.5.3 Test Procedures

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

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. Measurement frequencies were performed from 9 kHz to 40GHz.

A.5.5 Measurement Result

Average Results:

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)
5431.050	45.1	-22.5	34.4	33.19	54.0	8.9	V
5451.000	45.1	-22.6	34.5	33.21	54.0	8.9	V
11490.000	35.1	-28.3	38.1	25.28	54.0	18.9	V
16102.800	39.1	-23.5	41.1	21.56	54.0	14.9	H
17890.000	40.3	-21.0	40.5	20.80	54.0	13.7	H
17949.600	40.4	-20.8	40.5	20.65	54.0	13.6	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)
5456.850	45.1	-22.5	34.5	33.17	54.0	8.9	V
5459.200	45.1	-22.5	34.5	33.14	54.0	8.9	V
11570.000	35.3	-28.6	38.4	25.54	54.0	18.7	V
15989.600	38.9	-23.3	40.8	21.46	54.0	15.1	H
17793.200	38.5	-21.3	40.6	19.25	54.0	15.5	H
17890.800	38.6	-21.0	40.5	19.05	54.0	15.4	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)
5422.200	45.1	-22.5	34.4	33.19	54.0	8.9	V
5458.050	45.1	-22.5	34.5	33.18	54.0	8.9	V
11650.000	35.4	-28.4	38.5	25.37	54.0	18.6	V
16008.000	38.9	-23.5	40.8	21.53	54.0	15.1	V
17790.000	38.9	-21.3	40.6	19.67	54.0	15.1	V
17882.400	39.2	-21.0	40.5	19.68	54.0	14.8	H

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)
5458.250	45.2	-22.5	34.5	33.22	54.0	8.8	V
5459.300	45.2	-22.5	34.5	33.20	54.0	8.8	V
11490.000	35.1	-28.3	38.1	25.27	54.0	18.9	H
15860.000	39.1	-23.4	40.9	21.56	54.0	14.9	H
17886.400	39.8	-21.0	40.5	20.23	54.0	14.2	H
17951.200	39.8	-20.8	40.6	20.07	54.0	14.2	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)
5456.500	45.1	-22.5	34.5	33.16	54.0	8.9	V
5458.800	45.1	-22.5	34.5	33.16	54.0	8.9	V
11570.000	35.5	-28.6	38.4	25.70	54.0	18.5	H
15855.600	39.1	-23.5	40.9	21.67	54.0	14.9	H
17880.800	39.7	-21.0	40.5	20.09	54.0	14.3	V
17950.800	39.8	-20.8	40.6	20.06	54.0	14.2	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)
5457.350	45.2	-22.5	34.5	33.23	54.0	8.8	V
5459.200	45.2	-22.5	34.5	33.21	54.0	8.8	V
11650.000	35.6	-28.4	38.5	25.47	54.0	18.4	V
15860.400	39.1	-23.4	40.9	21.56	54.0	14.9	V
17794.000	39.5	-21.4	40.6	20.25	54.0	14.5	H
17893.600	39.6	-21.0	40.5	20.19	54.0	14.4	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)
5459.650	44.9	-22.5	34.5	32.95	54.0	9.1	V
5459.800	44.9	-22.5	34.5	32.96	54.0	9.1	V
11510.000	35.5	-28.4	38.1	25.76	54.0	18.5	V
16008.800	39.5	-23.5	40.8	22.22	54.0	14.5	V
17789.200	39.4	-21.3	40.6	20.15	54.0	14.6	H
17888.000	39.7	-21.0	40.5	20.15	54.0	14.3	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)
5413.000	45.0	-22.4	34.4	33.08	54.0	9.0	V
5452.850	45.0	-22.6	34.5	33.03	54.0	9.0	V
11590.000	35.9	-27.7	38.5	25.13	54.0	18.1	H
15859.600	39.5	-23.4	40.9	21.98	54.0	14.5	H
17824.800	39.3	-21.4	40.6	20.12	54.0	14.8	V
17887.200	39.5	-21.0	40.5	20.00	54.0	14.5	V

802.11ac-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)
5430.750	45.1	-22.5	34.4	33.23	54.0	8.9	V
5457.600	45.2	-22.5	34.5	33.20	54.0	8.8	V
11490.000	34.4	-28.3	38.1	24.63	54.0	19.6	H
15866.800	38.5	-23.2	40.9	20.80	54.0	15.5	H
17790.000	38.9	-21.3	40.6	19.67	54.0	15.1	V
17886.400	39.3	-21.0	40.5	19.77	54.0	14.7	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)
5456.850	45.1	-22.5	34.5	33.16	54.0	8.9	V
5459.300	45.2	-22.5	34.5	33.19	54.0	8.8	V
11570.000	34.7	-28.6	38.4	24.93	54.0	19.3	H
15972.800	38.3	-23.3	40.8	20.80	54.0	15.7	V
17886.400	39.3	-21.0	40.5	19.74	54.0	14.7	H
17950.000	39.3	-20.8	40.6	19.62	54.0	14.7	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)
5443.300	45.0	-22.6	34.5	33.12	54.0	9.0	V
5457.650	45.1	-22.5	34.5	33.17	54.0	8.9	V
11650.000	35.2	-28.4	38.5	25.10	54.0	18.8	V
16016.400	38.8	-23.5	40.8	21.49	54.0	15.2	H
17885.200	39.2	-21.0	40.5	19.63	54.0	14.8	H
17956.400	39.2	-20.9	40.6	19.53	54.0	14.8	V

802.11ac-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)
5441.150	45.1	-22.6	34.5	33.21	54.0	8.9	V
5459.350	45.2	-22.5	34.5	33.20	54.0	8.8	V
11510.000	35.1	-28.4	38.1	25.29	54.0	18.9	V
15860.000	38.9	-23.4	40.9	21.43	54.0	15.1	H
17886.800	39.7	-21.0	40.5	20.17	54.0	14.3	V
17954.000	39.6	-20.9	40.6	19.96	54.0	14.4	H

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)
5442.250	45.1	-22.6	34.5	33.21	54.0	8.9	V
5457.100	45.1	-22.5	34.5	33.19	54.0	8.9	V
11590.000	35.3	-27.7	38.5	24.52	54.0	18.7	H
16013.200	39.0	-23.5	40.8	21.64	54.0	15.0	V
17887.200	39.7	-21.0	40.5	20.14	54.0	14.3	H
17948.000	39.7	-20.9	40.5	20.08	54.0	14.3	H

802.11ac-HT80

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)
5458.400	45.2	-22.5	34.5	33.20	54.0	8.8	V
5459.200	45.1	-22.5	34.5	33.16	54.0	8.9	V
11550.000	35.3	-28.2	38.3	25.23	54.0	18.7	H
15997.600	39.0	-23.3	40.8	21.59	54.0	15.0	V
17879.600	39.5	-21.0	40.5	19.97	54.0	14.5	H
17948.400	39.6	-20.9	40.5	19.97	54.0	14.4	V

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)
5652.237	56.1	-22.5	34.7	43.91	69.9	13.8	V
5653.956	56.2	-22.5	34.7	44.04	71.1	15.0	H
11489.100	47.8	-28.3	38.1	38.02	74.0	26.2	V
16966.550	53.9	-22.2	41.2	34.93	68.2	14.3	V
17235.500	51.7	-22.4	40.9	33.22	68.2	16.5	V
17539.650	53.9	-20.7	40.8	33.76	68.2	14.3	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)
5691.400	57.3	-22.3	34.4	45.19	68.2	10.9	V
5875.600	57.7	-21.8	34.8	44.68	68.2	10.5	V
11569.950	48.8	-28.6	38.4	38.95	74.0	25.2	V
16956.650	54.5	-22.2	41.2	35.45	68.2	13.7	V
17354.850	51.3	-21.9	40.7	32.43	68.2	16.9	V
17533.600	54.3	-21.3	40.8	34.80	68.2	13.9	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)
5922.050	56.4	-22.0	34.8	43.60	70.4	14.0	H
5924.684	57.0	-22.0	34.8	44.24	68.4	11.4	H
11650.250	47.5	-28.4	38.5	37.37	74.0	26.5	H
16621.700	54.0	-22.5	41.3	35.14	68.2	14.2	H
16982.500	54.0	-22.2	41.2	35.01	68.2	14.2	H
17474.750	51.9	-21.8	40.8	32.92	68.2	16.3	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)
5650.132	55.7	-22.5	34.7	43.50	68.3	12.6	H
5651.323	56.4	-22.5	34.7	44.22	69.2	12.8	H
11490.200	47.9	-28.3	38.1	38.05	74.0	26.1	V
16906.600	54.7	-22.4	41.4	35.66	68.2	13.5	V
17234.950	51.3	-22.4	40.9	32.76	68.2	16.9	H
17326.800	54.5	-22.1	40.8	35.84	68.2	13.7	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)
5726.000	57.1	-22.1	34.3	44.92	68.2	11.1	V
5837.800	57.1	-22.0	34.8	44.35	68.2	11.1	H
11569.950	47.9	-28.6	38.4	38.08	74.0	26.1	V
16536.450	54.1	-22.8	41.2	35.70	68.2	14.1	V
17354.850	52.1	-21.9	40.7	33.21	68.2	16.1	H
17508.300	54.3	-22.1	40.8	35.64	68.2	13.9	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)
5924.954	56.5	-22.0	34.8	43.77	68.2	11.7	H
5925.000	56.3	-22.0	34.8	43.57	68.2	11.9	H
11650.250	47.6	-28.4	38.5	37.49	74.0	26.4	V
16653.600	53.8	-22.6	41.4	35.00	68.2	14.4	H
16838.950	54.1	-22.5	41.4	35.21	68.2	14.1	H
17474.750	52.3	-21.8	40.8	33.36	68.2	15.9	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)
5650.115	56.2	-22.5	34.7	44.03	68.3	12.1	H
5650.702	55.6	-22.5	34.7	43.47	68.7	13.1	V
11510.000	47.1	-28.4	38.1	37.38	74.0	26.9	V
17021.550	54.4	-22.1	41.1	35.40	68.2	13.8	H
17265.200	51.6	-22.2	40.8	32.97	68.2	16.6	H
17543.500	54.7	-20.9	40.8	34.85	68.2	13.5	H

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)
5918.750	56.8	-22.1	34.8	44.08	72.8	16.0	V
5921.240	56.3	-22.0	34.8	43.50	71.0	14.7	H
11589.750	48.2	-27.7	38.5	37.43	74.0	25.8	H
16305.450	54.3	-22.8	40.9	36.20	68.2	13.9	V
17385.100	51.8	-21.9	40.7	32.90	68.2	16.4	H
17538.550	54.4	-20.8	40.8	34.44	68.2	13.8	H

802.11ac-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)
5650.224	56.2	-22.5	34.7	44.06	68.4	12.1	H
5652.881	56.1	-22.5	34.7	43.93	70.3	14.3	V
11490.200	46.9	-28.3	38.1	37.05	74.0	27.1	V
16923.100	53.4	-22.5	41.3	34.58	68.2	14.8	V
17234.950	50.7	-22.4	40.9	32.20	68.2	17.5	V
17406.550	53.5	-21.9	40.7	34.64	68.2	14.7	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)
5730.800	56.8	-22.2	34.3	44.72	68.2	11.4	V
5837.600	57.6	-22.0	34.8	44.86	68.2	10.6	V
11569.950	46.9	-28.6	38.4	37.11	74.0	27.1	V
16842.250	53.3	-22.5	41.4	34.45	68.2	14.9	V
17001.200	53.1	-22.1	41.1	34.09	68.2	15.1	H
17354.850	51.2	-21.9	40.7	32.37	68.2	17.0	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)
5919.911	56.5	-22.0	34.8	43.69	72.0	15.5	V
5922.551	57.6	-22.0	34.8	44.84	70.0	12.4	H
11650.250	47.6	-28.4	38.5	37.48	74.0	26.4	H
16925.300	53.4	-22.5	41.3	34.53	68.2	14.8	H
17263.000	53.1	-22.2	40.8	34.47	68.2	15.1	V
17474.750	51.3	-21.8	40.8	32.36	68.2	16.9	V

802.11ac-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)
5650.288	57.3	-22.5	34.7	45.16	68.4	11.1	H
5655.647	56.4	-22.5	34.7	44.33	72.4	15.9	V
11510.000	46.8	-28.4	38.1	37.01	74.0	27.2	H
17030.900	53.6	-22.5	41.1	34.95	68.2	14.6	V
17265.200	50.6	-22.2	40.8	31.93	68.2	17.6	H
17476.400	53.7	-21.9	40.8	34.82	68.2	14.5	H

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)
5919.992	56.9	-22.0	34.8	44.09	71.9	15.1	V
5924.488	56.5	-22.0	34.8	43.73	68.6	12.1	V
11589.750	48.0	-27.7	38.5	37.23	74.0	26.0	H
17002.300	53.7	-22.1	41.1	34.67	68.2	14.5	H
17385.100	50.5	-21.9	40.7	31.61	68.2	17.7	H
17540.750	53.5	-20.7	40.8	33.46	68.2	14.7	H

802.11ac-HT80

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)
5650.477	56.5	-22.5	34.7	44.31	68.6	12.1	H
5650.696	56.4	-22.5	34.7	44.25	68.7	12.3	V
11550.150	46.9	-28.2	38.3	36.85	74.0	27.1	V
16650.300	53.5	-22.7	41.4	34.89	68.2	14.7	H
17008.900	53.8	-22.1	41.1	34.85	68.2	14.4	H
17325.150	51.0	-22.1	40.8	32.32	68.2	17.2	H

Conclusion: PASS
Note:

1. The spurious emission above 18G is noise only.
2. All emissions below 30MHz are more than 20 dB below the limit

Band edge compliance

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.1	P
	5825 MHz	Fig.2	P
802.11n HT20	5745 MHz	Fig.3	P
	5825 MHz	Fig.4	P
802.11n HT40	5755 MHz	Fig.5	P
	5795 MHz	Fig.6	P
802.11ac HT20	5745 MHz	Fig.7	P
	5825 MHz	Fig.8	P
802.11ac HT40	5755 MHz	Fig.9	P
	5795 MHz	Fig.10	P
802.11ac HT80	5775 MHz	Fig.11 Fig.12	P

Conclusion: PASS

Test graphs as below:

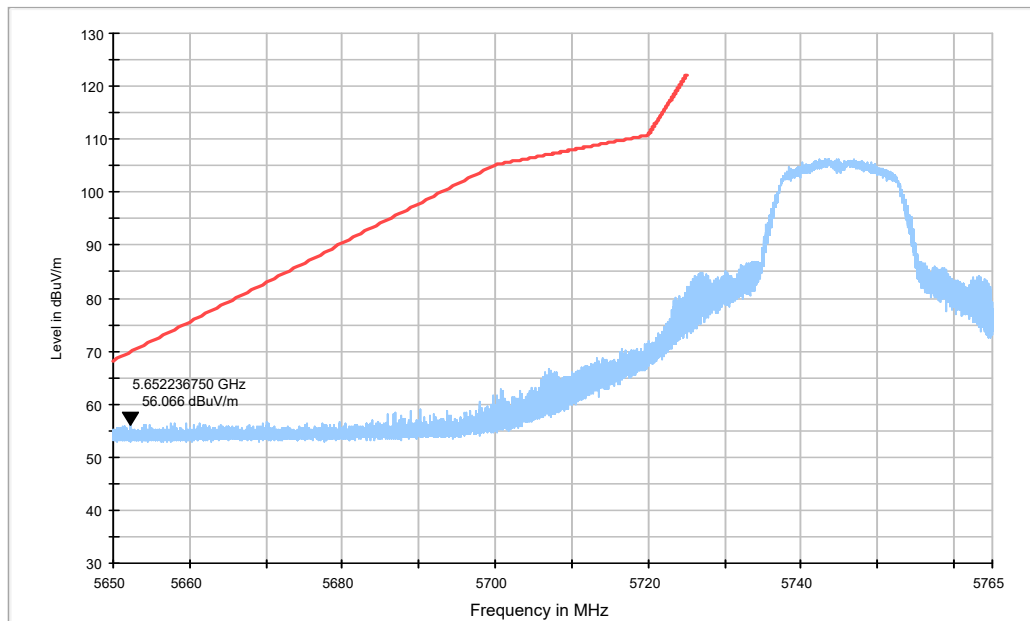


Fig. 1 Band Edges (802.11a Ch149, 5745MHz)

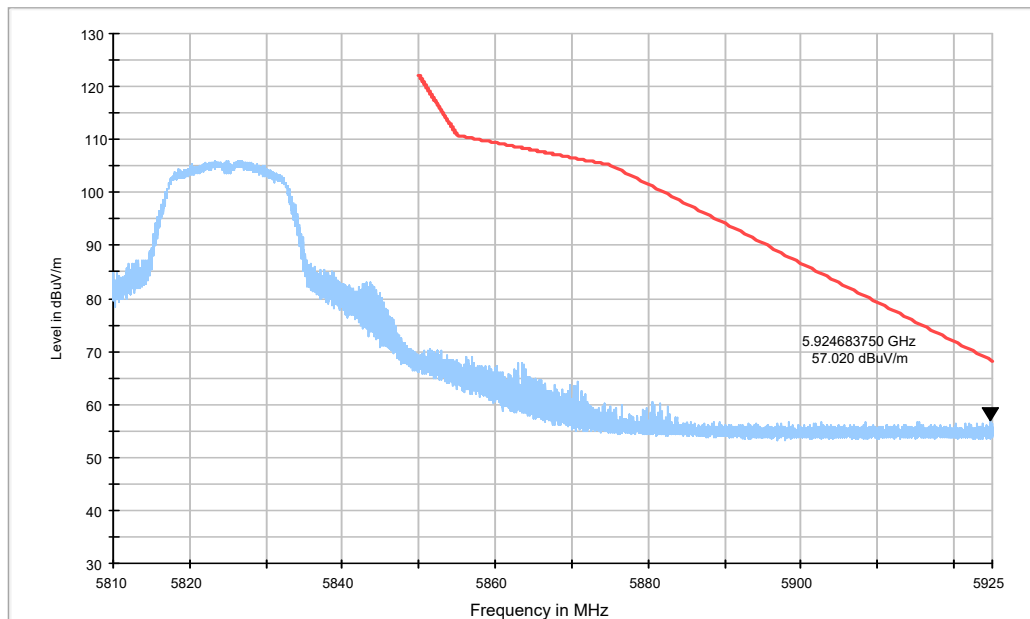


Fig. 2 Band Edges (802.11a Ch165, 5825MHz)

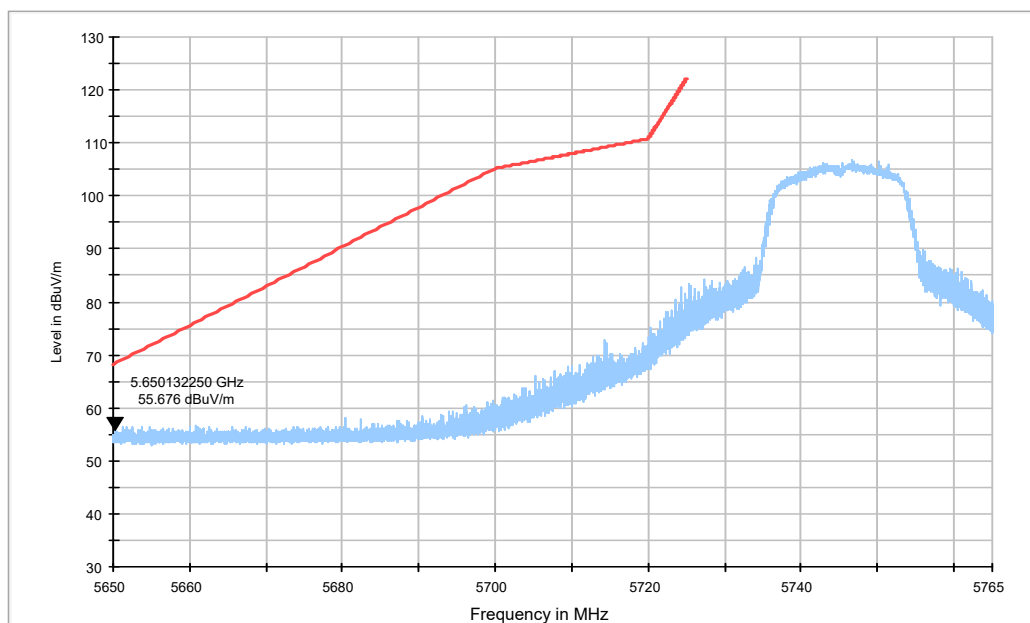


Fig. 3 Band Edges (802.11n-HT20 Ch149, 5745MHz)

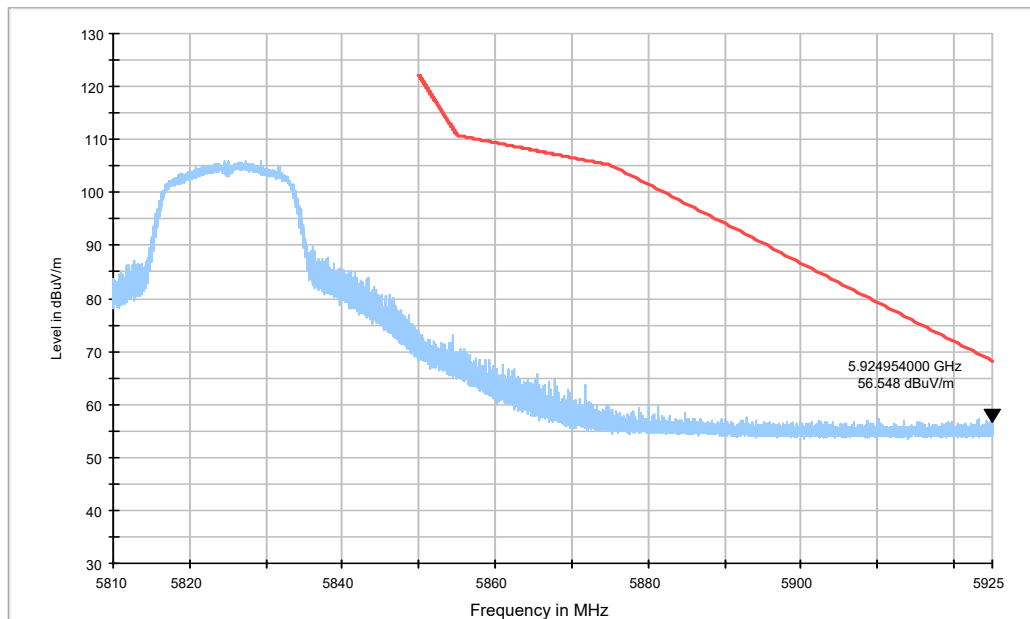


Fig. 4 Band Edges (802.11n-HT20 Ch165, 5825MHz)

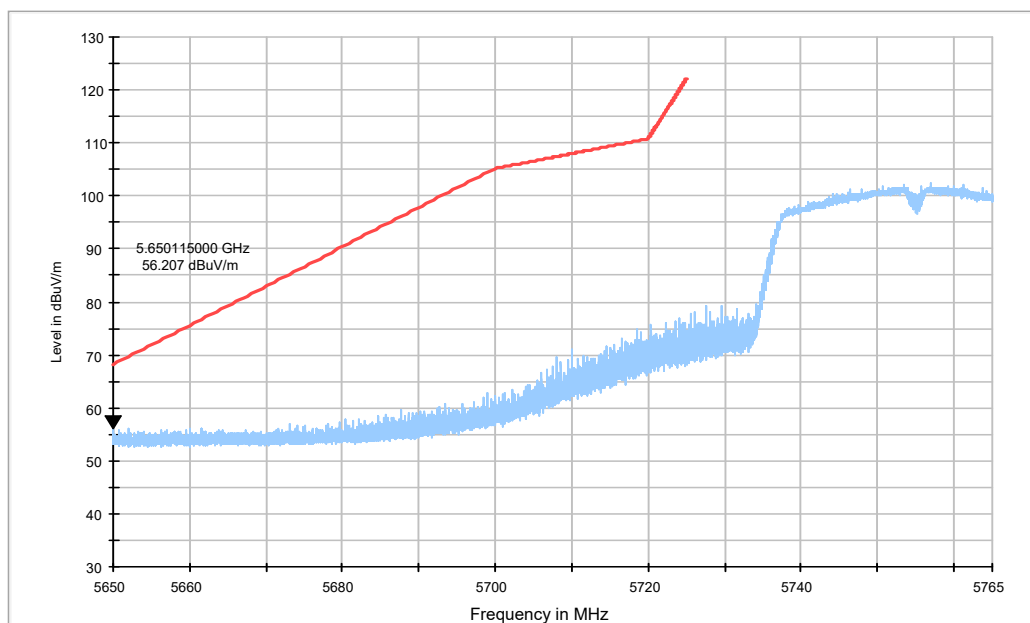


Fig. 5 Band Edges (802.11n-HT40 Ch151, 5755MHz)

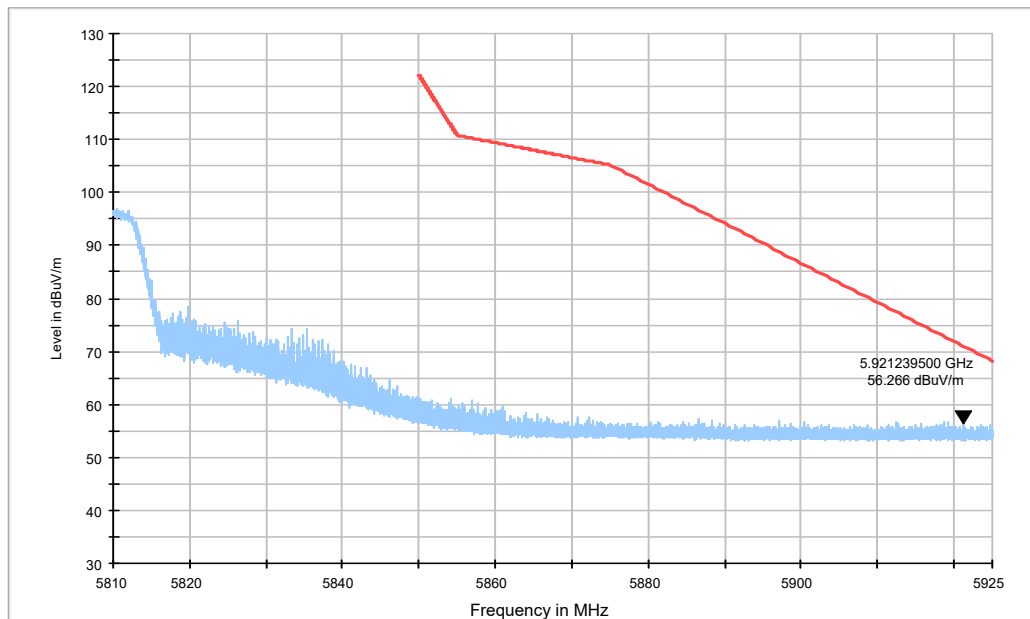


Fig. 6 Band Edges (802.11n-HT40 Ch159, 5795MHz)

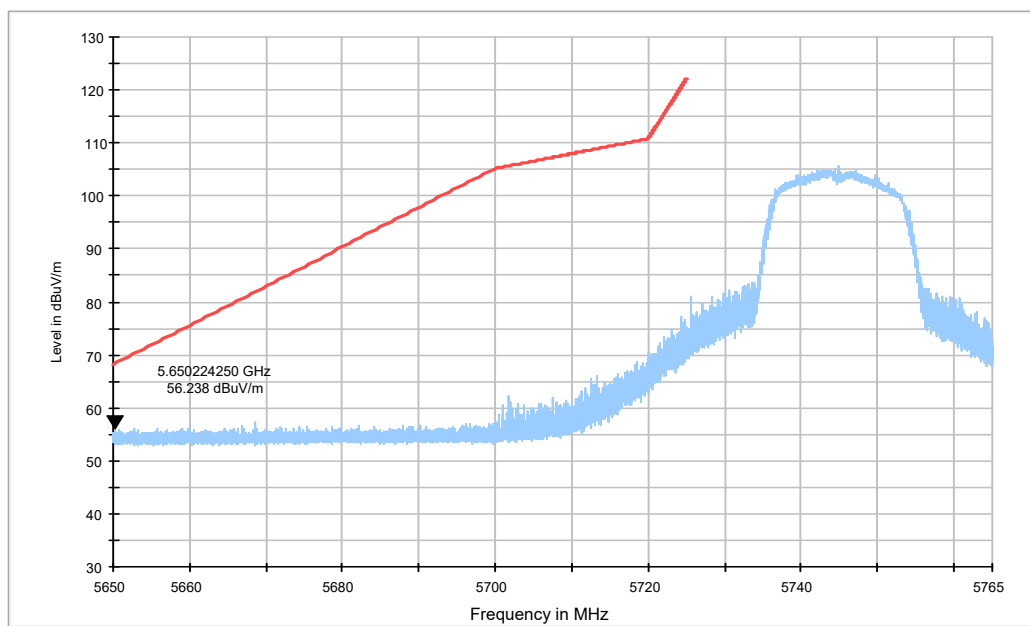


Fig. 7 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

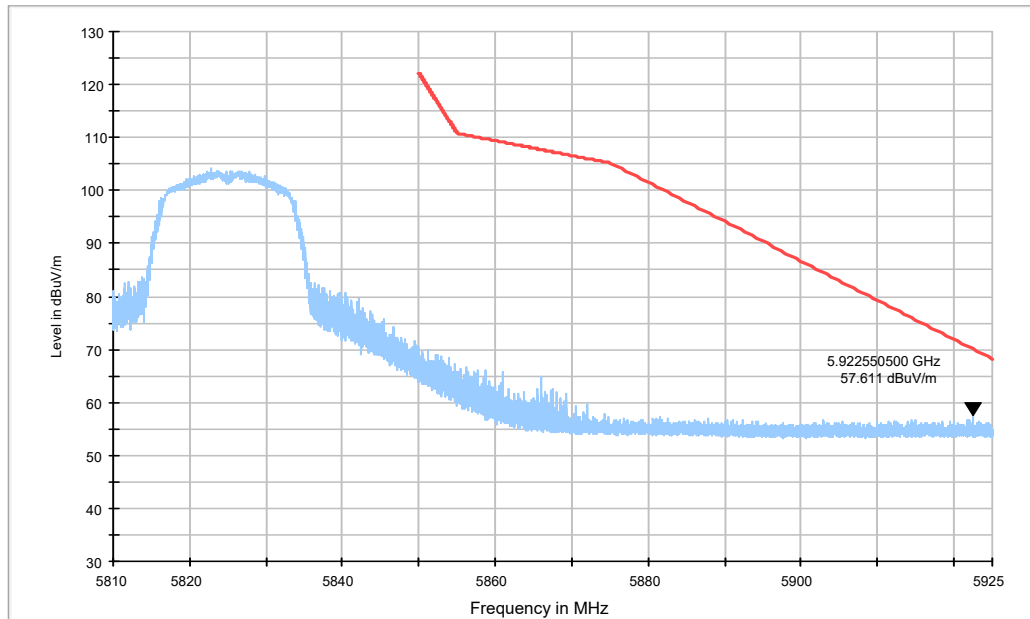


Fig. 8 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

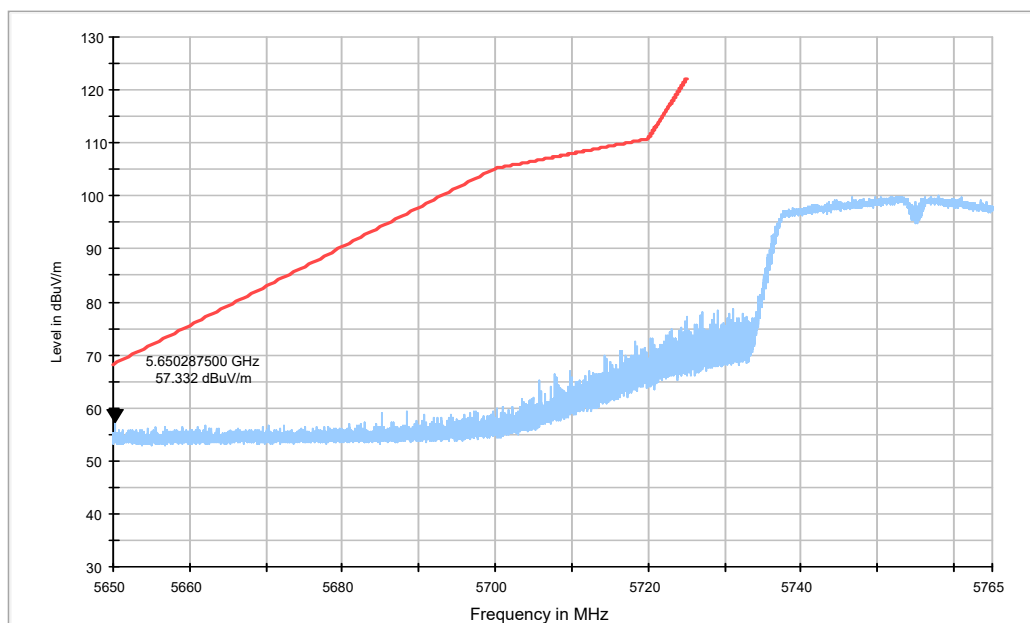


Fig. 9 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

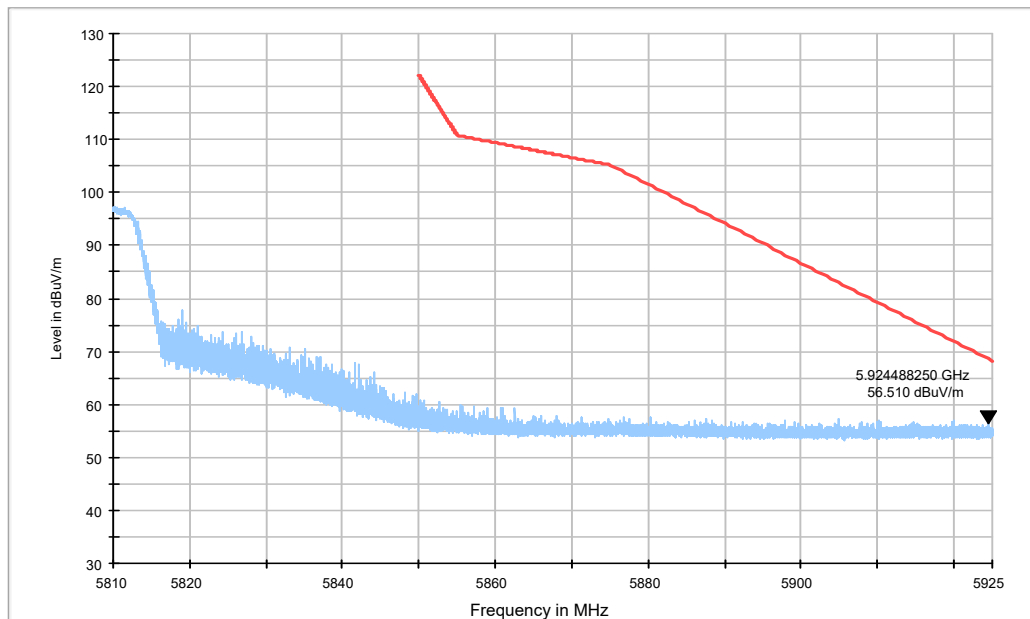


Fig. 10 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

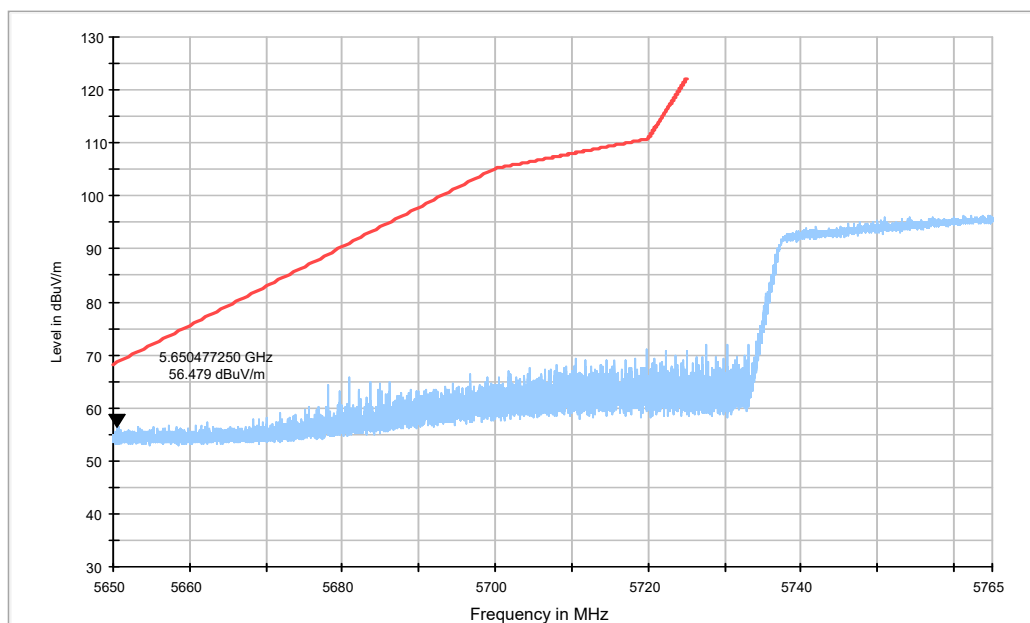


Fig. 11 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

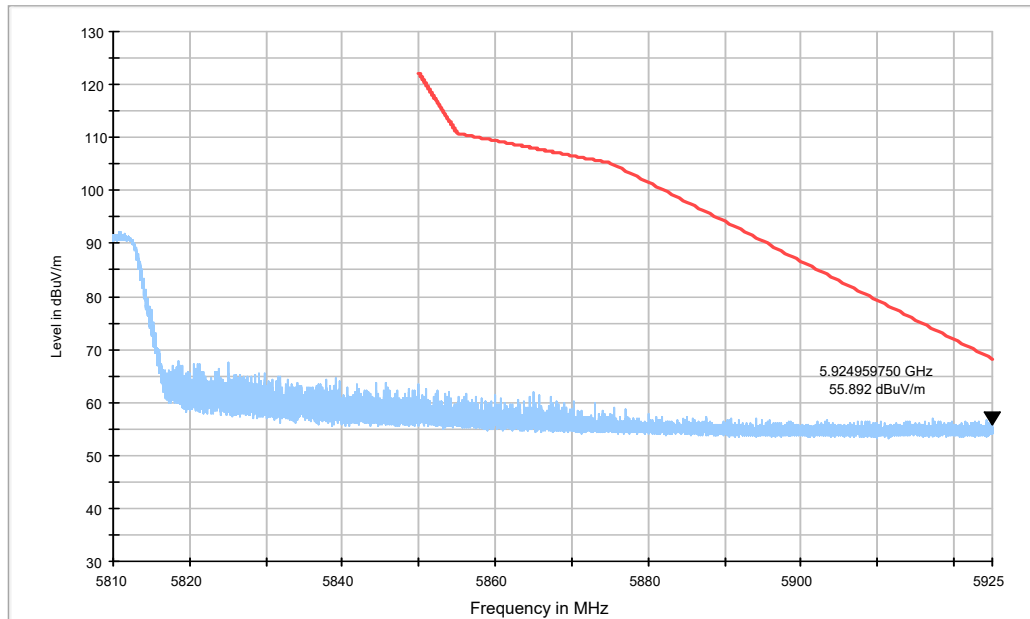


Fig. 12 Band Edges (802.11ac-HT80, Ch155, 5775MHz)

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.

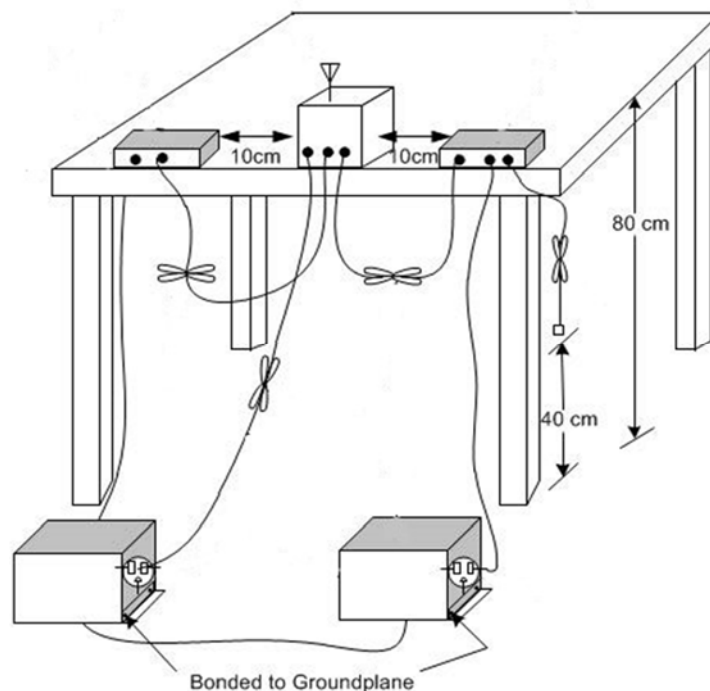
The measurement bandwidth is:

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:

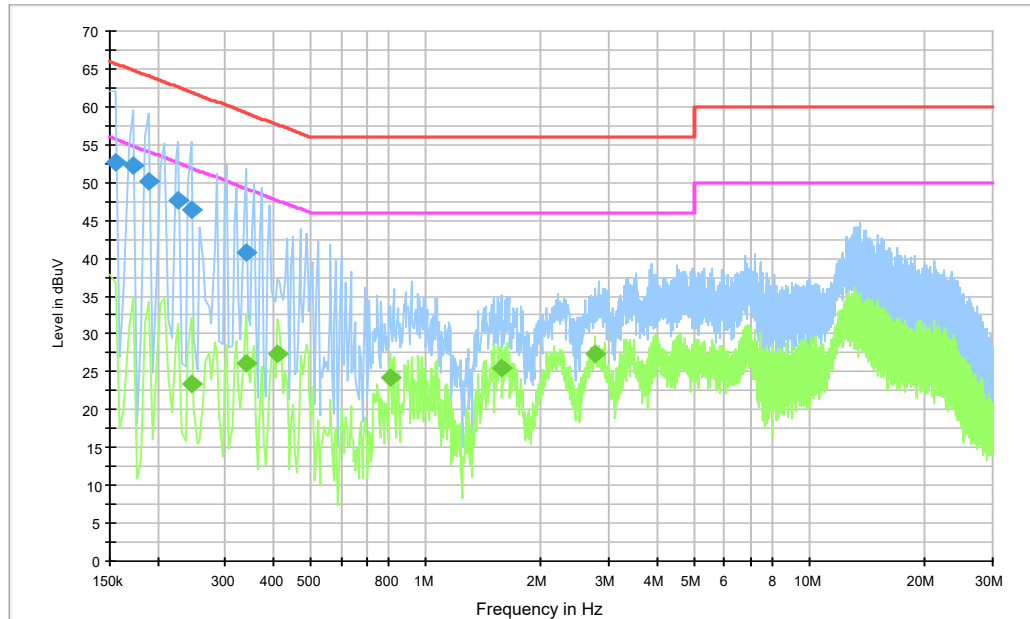


Fig.A.6.1. AC Powerline Conducted Emission-Ide

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	52.7	2000.0	9.000	On	L1	20.1	13.0	65.8
0.172500	52.2	2000.0	9.000	On	L1	20.0	12.6	64.8
0.190500	50.1	2000.0	9.000	On	N	20.0	13.9	64.0
0.226500	47.7	2000.0	9.000	On	L1	20.0	14.9	62.6
0.244500	46.4	2000.0	9.000	On	N	20.0	15.5	61.9
0.339000	40.7	2000.0	9.000	On	N	20.1	18.6	59.2

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.244500	23.5	2000.0	9.000	On	L1	20.0	28.5	51.9
0.339000	26.2	2000.0	9.000	On	N	20.1	23.0	49.2
0.411000	27.4	2000.0	9.000	On	N	20.1	20.3	47.6
0.807000	24.3	2000.0	9.000	On	L1	20.0	21.7	46.0
1.572000	25.6	2000.0	9.000	On	L1	19.9	20.4	46.0
2.760000	27.4	2000.0	9.000	On	L1	19.9	18.6	46.0

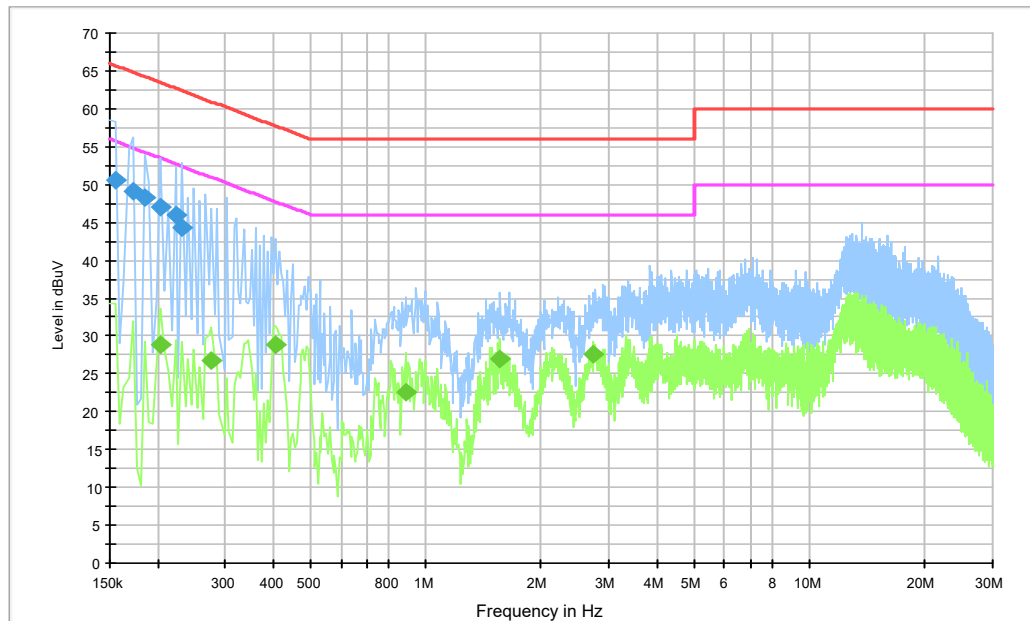


Fig.A.6.2. AC Powerline Conducted Emission-Idle

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154500	50.5	2000.0	9.000	On	L1	20.1	15.3	65.8
0.172500	49.1	2000.0	9.000	On	L1	20.0	15.8	64.8
0.186000	48.2	2000.0	9.000	On	N	20.0	16.0	64.2
0.204000	46.9	2000.0	9.000	On	N	20.0	16.5	63.4
0.222000	45.9	2000.0	9.000	On	N	20.0	16.9	62.7
0.231000	44.4	2000.0	9.000	On	L1	20.0	18.0	62.4

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.204000	28.9	2000.0	9.000	On	N	20.0	24.6	53.4
0.276000	26.8	2000.0	9.000	On	N	20.1	24.2	50.9
0.406500	28.9	2000.0	9.000	On	N	20.1	18.8	47.7
0.888000	22.6	2000.0	9.000	On	N	20.1	23.4	46.0
1.563000	26.9	2000.0	9.000	On	L1	19.9	19.1	46.0
2.742000	27.6	2000.0	9.000	On	L1	19.9	18.4	46.0

A.7. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

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 ***