



FCC PART 15C TEST REPORT No.I21Z70396-EMC04

for

Samsung Electronics Co., Ltd.

Notebook PC

NP750TDA

with

FCC ID: ZCANP750TDA

Hardware Version: REV1.0

Software Version: Windows11-Pro

Issued Date: 2021-09-10

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z70396-EMC04	Rev.0	1st edition	2021-09-10

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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

Location :CTTL(BDA)

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

1.3.Testing Environment

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

1.4.Project date

Testing Start Date: 2021-08-10

Testing End Date: 2021-09-08

1.5.Signature



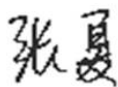
Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1.Applicant Information

Company Name: Samsung Electronics Co., Ltd.
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Fax: /

2.2.Manufacturer Information

Company Name: Samsung Electronics Co., Ltd.
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Email: ggobi.cho@samsung.com
Telephone: +82-10-2722-4159
Fax: /

3. PRODUCT INFORMATION

3.1. About EUT

Description	Notebook PC
Model name	NP750TDA
FCC ID	ZCANP750TDA

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	2170396UT15a	REV1.0	Windows11-Pro
EUT2	2170396UT23a	REV1.0	Windows11-Pro

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

3.3. Internal Identification of AE

AE ID*	Description	SN	Remarks
AE1	Travel Adapter	/	/
AE2	Data Cable	/	/
AE3	battery	/	Inbuilt

AE1

Model	EP-TA865
Manufacturer	DONGYANG E&P Inc
Length of cable	/

AE2

Model	GH39-02097A
Manufacturer	RFTech Thai Nguyen Co., Ltd.

AE3

Model	/
Manufacturer	/

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

3.4. General Description

The Equipment Under Test (EUT) was a Notebook PC with Bluetooth, Bluetooth Low Energy and 802.11 a/b/g/n/ac/ax capabilities in the 2.4 GHz and 5 GHz bands.

Antenna information

Item	Spec.	Vendor	Vendor P/N	Sample under test
Antenna	Main antenna (Chain A)	INPAQ	/	EUT1
	Auxiliary antenna (Chain B)			
Antenna	Main antenna (Chain A)	SPEED	/	EUT2
	Auxiliary antenna (Chain B)			

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 802.11b/g modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ax40 (40MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously(MIMO).

The software DRTU provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

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:	2019
	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

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage

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	T nom	26℃
Voltage	V nom	4.0V
Humidity	H nom	20-75%

6. Test Facilities Utilized

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100235	R&S	1 year	2022-02-23
2	EMI Antenna	VULB9163	9163-482	Schwarzbeck	1 year	2021-11-04
3	EMI Antenna	LB-180-NF	2030013000 41	A-INFO	1 year	2022-02-28
4	EMI Antenna	3117	00139065	ETS-Lindgren	1 year	2021-10-11
5	EMI Antenna	LB-180400- 25-C-KF	2110084000 06	A-INFO	1 year	2022-02-28
6	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2021-12-10
7	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	101459	R&S	1 year	2022-03-16
2	Test Receiver	ESCI	100766	R&S	1 year	2022-03-09

7. Measurement Uncertainty

Radiated Spurious Emission

(k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.40
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.32
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.26

AC Power-line Conducted Emission

Measurement Uncertainty : 3.10dB,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

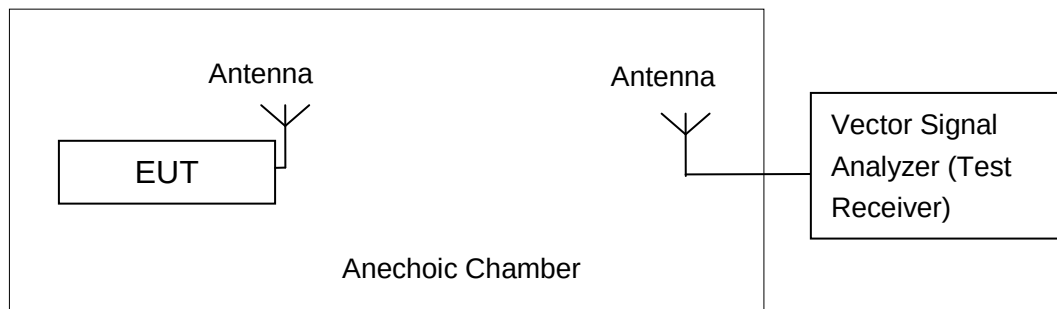
Specification Reference

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(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(dBμV/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 INPAQ antenna the measurements 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 with SPEED antenna the measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report.

C.1.1 Radiated Spurious Emission- above 1GHz

INPAQ

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

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)
2325.918	61.05	2.82	31.94	26.29	74.00	12.95	H
2377.788	61.05	2.86	31.99	26.20	74.00	12.95	H
4824.000	43.88	-33.24	34.13	42.99	74.00	30.12	V
7236.000	41.96	-30.88	35.80	37.04	74.00	32.04	V
9648.000	42.87	-30.46	36.71	36.62	74.00	31.13	V
12060.000	43.57	-28.70	38.74	33.54	74.00	30.43	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)
2359.200	47.19	-34.91	31.97	50.13	74.00	26.81	V
2525.600	48.78	-34.42	32.15	51.05	74.00	25.22	H
4874.000	42.26	-33.30	34.15	41.41	74.00	31.74	H
7311.000	41.11	-30.82	35.83	36.10	74.00	32.89	H
9748.000	43.17	-30.33	36.85	36.65	74.00	30.83	V
12185.000	46.02	-28.11	38.81	35.31	74.00	27.98	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)
2488.120	60.99	2.93	32.09	25.97	74.00	13.01	V
1497.045	61.34	2.21	28.19	30.94	74.00	12.66	V
4924.000	44.69	-33.53	34.17	44.05	74.00	29.31	V
7386.000	42.08	-31.45	35.86	37.67	74.00	31.92	V
9848.000	43.52	-30.18	36.99	36.71	74.00	30.48	H
12310.000	44.95	-27.75	38.89	33.81	74.00	29.05	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)
2386.706	60.99	2.86	32.00	26.13	74.00	13.01	H
2387.084	60.84	2.86	32.00	25.97	74.00	13.16	H
4824.000	40.65	-33.24	34.13	39.75	74.00	33.35	V
7236.000	42.49	-30.88	35.80	37.58	74.00	31.51	V
9648.000	43.39	-30.46	36.71	37.14	74.00	30.61	V
12060.000	44.45	-28.70	38.74	34.41	74.00	29.55	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)
2341.000	47.30	-35.25	31.95	50.59	74.00	26.70	V
2518.000	48.59	-34.34	32.14	50.79	74.00	25.41	H
4874.000	40.29	-33.30	34.15	39.44	74.00	33.71	H
7311.000	43.68	-30.82	35.83	38.67	74.00	30.32	H
9748.000	43.23	-30.33	36.85	36.71	74.00	30.77	V
12185.000	45.59	-28.11	38.81	34.88	74.00	28.41	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)
2483.925	61.54	2.93	32.09	26.52	74.00	12.46	V
2499.035	61.30	2.94	32.10	26.26	74.00	12.70	V
4924.000	42.31	-33.53	34.17	41.67	74.00	31.69	H
7386.000	42.99	-31.45	35.86	38.59	74.00	31.01	H
9848.000	43.35	-30.18	36.99	36.54	74.00	30.65	V
12310.000	45.68	-27.75	38.89	34.54	74.00	28.32	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)
2373.434	60.77	2.85	31.98	25.93	74.00	13.23	H
2384.200	61.41	2.86	31.99	26.55	74.00	12.59	H
4824.000	40.52	-33.24	34.13	39.62	74.00	33.48	V
7236.000	42.41	-30.88	35.80	37.49	74.00	31.59	H
9648.000	43.40	-30.46	36.71	37.14	74.00	30.60	V
12060.000	45.15	-28.70	38.74	35.12	74.00	28.85	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)
2335.000	47.82	-35.30	31.95	51.17	74.00	26.18	V
2533.600	48.38	-34.53	32.17	50.75	74.00	25.62	H
4874.000	41.25	-33.30	34.15	40.40	74.00	32.75	H
7311.000	42.62	-30.82	35.83	37.61	74.00	31.38	H
9748.000	43.14	-30.33	36.85	36.62	74.00	30.86	V
12185.000	46.26	-28.11	38.81	35.55	74.00	27.74	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)
2486.120	61.23	2.93	32.09	26.20	74.00	12.77	H
2496.180	61.17	2.94	32.10	26.13	74.00	12.83	H
4924.000	41.91	-33.53	34.17	41.27	74.00	32.09	V
7386.000	43.09	-31.45	35.86	38.69	74.00	30.91	V
9848.000	43.36	-30.18	36.99	36.54	74.00	30.64	H
12310.000	46.02	-27.75	38.89	34.88	74.00	27.98	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)
2385.124	62.82	2.86	31.99	27.97	74.00	11.18	V
2389.562	63.80	2.87	32.00	28.93	74.00	10.20	V
4844.000	40.96	-33.23	34.14	40.06	74.00	33.04	V
7266.000	42.88	-30.60	35.81	37.66	74.00	31.12	V
9688.000	44.10	-30.37	36.77	37.70	74.00	29.90	V
12110.000	46.15	-28.47	38.77	35.85	74.00	27.85	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)
2340.000	45.74	-35.26	31.95	49.04	74.00	28.26	V
2512.800	46.41	-34.28	32.13	48.57	74.00	27.59	V
4874.000	41.46	-33.30	34.15	40.61	74.00	32.54	H
7311.000	44.03	-30.82	35.83	39.02	74.00	29.97	H
9748.000	43.47	-30.33	36.85	36.95	74.00	30.53	V
12185.000	46.24	-28.11	38.81	35.54	74.00	27.76	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)
2484.510	61.44	2.93	32.09	26.42	74.00	12.56	H
2485.355	61.37	2.93	32.09	26.35	74.00	12.63	H
4904.000	40.63	-33.42	34.16	39.90	74.00	33.37	V
7356.000	43.87	-31.17	35.84	39.20	74.00	30.13	V
9808.000	43.79	-30.32	36.94	37.18	74.00	30.21	V
12260.000	44.92	-27.88	38.86	33.94	74.00	29.08	V

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)
2381.232	61.45	2.9	32.0	26.60	74.0	12.6	V
2387.224	61.47	2.9	32.0	26.61	74.0	12.5	V
4824.000	40.58	-33.2	34.1	39.68	74.0	33.4	H
7236.000	42.93	-30.9	35.8	38.02	74.0	31.1	V
9648.000	44.51	-30.5	36.7	38.26	74.0	29.5	H
12060.000	45.55	-28.7	38.7	35.52	74.0	28.4	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)
2350.600	47.94	-35.2	32.0	51.15	74.0	26.1	V
2530.000	49.30	-34.5	32.2	51.62	74.0	24.7	H
4874.000	41.22	-33.3	34.2	40.37	74.0	32.8	H
7311.000	42.20	-30.8	35.8	37.19	74.0	31.8	V
9748.000	46.14	-30.3	36.9	39.62	74.0	27.9	V
12185.000	45.79	-28.1	38.8	35.08	74.0	28.2	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)
2484.505	60.79	2.9	32.1	25.77	74.0	13.2	V
2490.335	61.73	2.9	32.1	26.70	74.0	12.3	H
4924.000	41.85	-33.5	34.2	41.21	74.0	32.1	V
7386.000	42.68	-31.5	35.9	38.27	74.0	31.3	V
9848.000	43.75	-30.2	37.0	36.94	74.0	30.2	V
12310.000	44.78	-27.8	38.9	33.65	74.0	29.2	V

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)
2387.266	62.27	2.9	32.0	27.41	74.0	11.7	H
2389.128	62.22	2.9	32.0	27.36	74.0	11.8	V
4844.000	42.28	-33.2	34.1	41.37	74.0	31.7	V
7266.000	43.95	-30.6	35.8	38.74	74.0	30.1	V
9688.000	45.41	-30.4	36.8	39.00	74.0	28.6	V
12110.000	44.84	-28.5	38.8	34.54	74.0	29.2	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)
2345.400	45.75	-35.2	32.0	49.00	74.0	28.3	H
2509.200	46.26	-34.2	32.1	48.39	74.0	27.7	H
4874.000	41.69	-33.3	34.2	40.84	74.0	32.3	H
7311.000	42.23	-30.8	35.8	37.22	74.0	31.8	H
9748.000	44.32	-30.3	36.9	37.80	74.0	29.7	V
12185.000	47.49	-28.1	38.8	36.79	74.0	26.5	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)
2489.145	61.83	2.9	32.1	26.81	74.0	12.2	H
2495.010	62.35	2.9	32.1	27.32	74.0	11.6	V
4904.000	40.91	-33.4	34.2	40.17	74.0	33.1	H
7356.000	45.88	-31.2	35.8	41.21	74.0	28.1	H
9808.000	43.49	-30.3	36.9	36.88	74.0	30.5	V
12260.000	46.57	-27.9	38.9	35.59	74.0	27.4	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)
2389.200	47.09	2.87	32.00	12.23	54.00	6.91	V
2389.980	47.05	2.87	32.00	12.19	54.00	6.95	V
4824.400	36.79	-33.24	34.13	35.90	54.00	17.21	V
7236.400	30.97	-30.88	35.80	26.05	54.00	23.03	H
9648.400	32.03	-30.46	36.71	25.78	54.00	21.97	V
12060.400	33.12	-28.70	38.74	23.08	54.00	20.88	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)
2423.880	47.20	2.89	32.03	12.28	54.00	6.80	V
2448.240	47.76	2.91	32.05	12.80	54.00	6.24	V
4873.900	34.96	-33.30	34.15	34.11	54.00	19.04	H
7311.100	30.64	-30.82	35.83	25.63	54.00	23.36	V
9748.300	31.86	-30.33	36.85	25.34	54.00	22.14	V
12184.600	34.63	-28.11	38.81	23.93	54.00	19.37	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)
2483.580	47.01	2.93	32.09	11.99	54.00	6.99	V
2483.760	47.00	2.93	32.09	11.99	54.00	7.00	V
4924.300	34.98	-33.53	34.17	34.34	54.00	19.02	V
7385.800	31.31	-31.45	35.86	26.91	54.00	22.69	V
9848.200	32.37	-30.18	36.99	25.56	54.00	21.63	H
12309.700	34.50	-27.75	38.89	23.36	54.00	19.50	V

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)
2389.800	47.12	2.87	32.00	12.25	54.00	6.88	V
2389.860	47.12	2.87	32.00	12.26	54.00	6.88	V
4824.400	29.98	-33.24	34.13	29.08	54.00	24.02	H
7236.400	31.93	-30.88	35.80	27.01	54.00	22.07	H
9648.400	33.00	-30.46	36.71	26.75	54.00	21.00	H
12060.400	33.88	-28.70	38.74	23.84	54.00	20.12	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)
2418.720	47.35	2.89	32.03	12.44	54.00	6.65	V
2455.200	47.37	2.91	32.06	12.39	54.00	6.63	V
4873.900	29.70	-33.30	34.15	28.85	54.00	24.30	V
7311.100	31.45	-30.82	35.83	26.44	54.00	22.55	V
9748.300	32.73	-30.33	36.85	26.21	54.00	21.27	V
12184.600	35.38	-28.11	38.81	24.68	54.00	18.62	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)
2483.580	46.96	2.93	32.09	11.95	54.00	7.04	V
2483.700	46.97	2.93	32.09	11.95	54.00	7.03	V
4924.300	30.57	-33.53	34.17	29.93	54.00	23.43	H
7385.800	31.42	-31.45	35.86	27.01	54.00	22.58	V
9848.200	32.61	-30.18	36.99	25.79	54.00	21.39	H
12309.700	34.63	-27.75	38.89	23.50	54.00	19.37	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)
2389.740	47.12	2.87	32.00	12.26	54.00	6.88	V
2389.980	47.09	2.87	32.00	12.23	54.00	6.91	V
4824.400	29.98	-33.24	34.13	29.08	54.00	24.02	V
7236.400	31.96	-30.88	35.80	27.05	54.00	22.04	V
9648.400	33.04	-30.46	36.71	26.79	54.00	20.96	H
12060.400	33.97	-28.70	38.74	23.93	54.00	20.03	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)
2419.500	47.49	2.89	32.03	12.58	54.00	6.51	V
2453.820	47.80	2.91	32.06	12.83	54.00	6.20	V
4873.900	29.80	-33.30	34.15	28.95	54.00	24.20	V
7311.100	31.51	-30.82	35.83	26.50	54.00	22.49	V
9748.300	32.78	-30.33	36.85	26.26	54.00	21.22	V
12184.600	35.34	-28.11	38.81	24.63	54.00	18.66	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)
2483.580	47.00	2.93	32.09	11.98	54.00	7.00	V
2483.640	46.99	2.93	32.09	11.97	54.00	7.01	V
4924.300	30.19	-33.53	34.17	29.55	54.00	23.81	H
7385.800	31.50	-31.45	35.86	27.09	54.00	22.50	V
9848.200	32.53	-30.18	36.99	25.72	54.00	21.47	H
12309.700	34.66	-27.75	38.89	23.53	54.00	19.34	V

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)
2389.080	47.74	2.87	32.00	12.88	54.00	6.26	V
2389.920	47.72	2.87	32.00	12.86	54.00	6.28	V
4844.200	30.77	-33.23	34.14	29.86	54.00	23.23	H
7266.100	32.30	-30.60	35.81	27.09	54.00	21.70	H
9688.000	33.02	-30.37	36.77	26.62	54.00	20.98	H
12109.900	34.73	-28.47	38.77	24.43	54.00	19.27	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)
2408.880	48.44	2.88	32.02	13.54	54.00	5.56	V
2464.800	47.75	2.92	32.07	12.76	54.00	6.25	V
4873.900	29.97	-33.30	34.15	29.12	54.00	24.03	V
7311.100	31.82	-30.82	35.83	26.81	54.00	22.18	H
9748.300	33.11	-30.33	36.85	26.59	54.00	20.89	V
12184.600	35.64	-28.11	38.81	24.93	54.00	18.36	V

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)
2483.520	47.14	2.93	32.09	12.12	54.00	6.86	V
2483.880	47.19	2.93	32.09	12.17	54.00	6.81	V
4903.600	30.22	-33.42	34.16	29.48	54.00	23.78	H
7356.100	32.52	-31.17	35.84	27.85	54.00	21.48	H
9807.700	32.57	-30.33	36.94	25.96	54.00	21.43	H
12260.200	35.06	-27.88	38.86	24.08	54.00	18.94	V

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)
2389.020	47.11	2.9	32.0	12.24	54.0	6.9	V
2389.260	47.12	2.9	32.0	12.25	54.0	6.9	V
4824.400	30.02	-33.2	34.1	29.12	54.0	24.0	V
7236.400	32.00	-30.9	35.8	27.08	54.0	22.0	H
9648.400	32.98	-30.5	36.7	26.73	54.0	21.0	H
12060.400	33.88	-28.7	38.7	23.85	54.0	20.1	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)
2418.720	47.33	2.9	32.0	12.42	54.0	6.7	V
2454.300	47.64	2.9	32.1	12.67	54.0	6.4	V
4873.900	29.81	-33.3	34.2	28.96	54.0	24.2	H
7311.100	31.50	-30.8	35.8	26.49	54.0	22.5	V
9748.300	32.69	-30.3	36.9	26.17	54.0	21.3	V
12184.600	35.34	-28.1	38.8	24.64	54.0	18.7	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)
2483.520	47.01	2.9	32.1	12.00	54.0	7.0	V
2483.640	47.03	2.9	32.1	12.01	54.0	7.0	V
4924.300	30.66	-33.5	34.2	30.01	54.0	23.3	H
7385.800	31.45	-31.5	35.9	27.05	54.0	22.5	V
9848.200	32.48	-30.2	37.0	25.67	54.0	21.5	H
12309.700	34.71	-27.8	38.9	23.58	54.0	19.3	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)
2389.620	47.50	2.9	32.0	12.64	54.0	6.5	V
2389.980	47.49	2.9	32.0	12.62	54.0	6.5	V
4844.200	30.79	-33.2	34.1	29.89	54.0	23.2	H
7266.100	32.38	-30.6	35.8	27.17	54.0	21.6	H
9688.000	33.05	-30.4	36.8	26.65	54.0	20.9	H
12109.900	34.88	-28.5	38.8	24.58	54.0	19.1	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)
2407.860	47.86	2.9	32.0	12.97	54.0	6.1	V
2465.520	47.54	2.9	32.1	12.55	54.0	6.5	V
4873.900	30.18	-33.3	34.2	29.33	54.0	23.8	V
7311.100	31.76	-30.8	35.8	26.75	54.0	22.2	H
9748.300	33.16	-30.3	36.9	26.64	54.0	20.8	V
12184.600	35.65	-28.1	38.8	24.95	54.0	18.3	V

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)
2483.580	47.10	2.9	32.1	12.08	54.0	6.9	V
2483.700	47.09	2.9	32.1	12.07	54.0	6.9	V
4903.600	30.20	-33.4	34.2	29.46	54.0	23.8	H
7356.100	32.47	-31.2	35.8	27.80	54.0	21.5	H
9807.700	32.81	-30.3	36.9	26.20	54.0	21.2	V
12260.200	35.10	-27.9	38.9	24.12	54.0	18.9	V

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

Conclusion: Pass

SPEED

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

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)
2349.008	60.78	2.61	27.64	30.52	74.00	13.22	V
2371.057	60.44	2.62	27.65	30.17	74.00	13.56	H
4823.906	46.14	-37.83	32.06	51.91	74.00	27.86	V
7236.094	42.96	-36.90	35.78	44.08	74.00	31.04	H
9647.812	45.92	-35.74	37.80	43.85	74.00	28.08	H
12060.000	47.30	-34.44	39.06	42.68	74.00	26.70	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)
1245.375	37.80	-41.19	24.17	54.82	74.00	36.20	H
1385.375	38.19	-41.09	24.59	54.69	74.00	35.81	H
4873.594	45.11	-37.78	32.18	50.71	74.00	28.89	H
7311.094	41.51	-36.89	35.96	42.45	74.00	32.49	V
9748.125	45.80	-35.67	37.80	43.68	74.00	28.20	H
12185.156	46.78	-34.75	38.99	42.54	74.00	27.22	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)
2492.700	60.88	2.71	27.70	30.47	74.00	13.12	V
2495.675	60.85	2.74	27.70	30.42	74.00	13.15	H
4923.750	43.28	-38.13	32.31	49.10	74.00	30.72	V
7386.094	42.93	-36.76	36.13	43.55	74.00	31.07	V
9847.969	45.66	-35.61	37.80	43.47	74.00	28.34	H
12309.844	46.91	-34.70	38.91	42.69	74.00	27.09	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)
2363.095	60.77	2.62	27.65	30.49	74.00	13.23	H
2389.800	60.77	2.62	27.66	30.49	74.00	13.23	H
4824.844	42.54	-37.83	32.06	48.31	74.00	31.46	V
7236.094	43.38	-36.90	35.78	44.51	74.00	30.62	H
9647.812	44.73	-35.74	37.80	42.66	74.00	29.27	H
12060.000	48.09	-34.44	39.06	43.46	74.00	25.91	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)
1244.500	37.68	-41.19	24.16	54.70	74.00	36.32	H
1383.375	38.46	-41.11	24.58	54.99	74.00	35.54	H
4870.312	42.63	-37.79	32.18	48.24	74.00	31.37	V
7311.094	42.21	-36.89	35.96	43.15	74.00	31.79	V
9748.125	46.69	-35.67	37.80	44.56	74.00	27.31	V
12185.156	48.47	-34.75	38.99	44.24	74.00	25.53	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)
2483.662	60.39	2.65	27.69	30.05	74.00	13.61	V
2486.137	60.72	2.66	27.70	30.36	74.00	13.28	V
4924.219	39.20	-38.14	32.31	45.02	74.00	34.80	H
7386.094	42.03	-36.76	36.13	42.65	74.00	31.97	H
9847.969	44.96	-35.61	37.80	42.78	74.00	29.04	H
12309.843	47.24	-34.70	38.91	43.03	74.00	26.76	V

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)
2382.363	60.38	2.62	27.66	30.10	74.00	13.62	V
2389.870	60.18	2.62	27.66	29.90	74.00	13.82	V
4826.250	42.18	-37.84	32.06	47.96	74.00	31.82	V
7236.094	42.45	-36.90	35.78	43.58	74.00	31.55	V
9467.812	45.48	-36.20	37.76	43.93	74.00	28.52	V
12060.000	47.74	-34.44	39.06	43.12	74.00	26.26	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)
1249.500	37.62	-41.22	24.18	54.66	74.00	36.38	H
1373.500	37.13	-41.19	24.55	53.77	74.00	36.87	H
4874.062	41.21	-37.78	32.19	46.81	74.00	32.79	H
7311.094	43.55	-36.89	35.96	44.49	74.00	30.45	H
9748.125	44.66	-35.67	37.80	42.53	74.00	29.34	V
12485.156	48.74	-34.18	38.81	44.11	74.00	25.26	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)
2486.994	61.38	2.67	27.70	31.02	74.00	12.62	H
2485.581	61.11	2.66	27.69	30.75	74.00	12.89	V
4924.219	38.92	-38.14	32.31	44.74	74.00	35.08	V
7386.094	43.25	-36.76	36.13	43.88	74.00	30.75	H
9847.969	45.28	-35.61	37.80	43.09	74.00	28.72	V
12609.844	46.57	-34.42	38.89	42.10	74.00	27.43	V

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)
2388.120	64.59	2.62	27.66	34.30	74.00	9.41	H
2389.100	65.64	2.62	27.66	35.35	74.00	8.36	H
4844.062	41.84	-37.86	32.11	47.59	74.00	32.16	V
7266.094	41.45	-36.86	35.85	42.46	74.00	32.55	V
9688.125	44.56	-35.70	37.80	42.46	74.00	29.44	H
12110.156	47.23	-34.43	39.03	42.63	74.00	26.77	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)
1247.000	39.41	-41.20	24.17	56.44	74.00	34.59	H
1376.000	38.48	-41.18	24.56	55.11	74.00	35.52	H
4874.062	40.40	-37.78	32.19	46.00	74.00	33.60	V
7311.094	42.53	-36.89	35.96	43.47	74.00	31.47	H
9748.125	43.78	-35.67	37.80	41.66	74.00	30.22	H
12185.156	46.89	-34.75	38.99	42.66	74.00	27.11	V

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)
2483.581	63.86	2.65	27.69	33.52	74.00	10.14	V
2486.150	63.75	2.66	27.70	33.39	74.00	10.25	V
4904.062	39.67	-37.94	32.26	45.35	74.00	34.33	V
7356.094	42.73	-36.89	36.06	43.55	74.00	31.27	H
9808.125	46.23	-35.66	37.80	44.09	74.00	27.77	H
12260.156	47.30	-34.75	38.99	43.11	74.00	26.70	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)
2385.740	60.22	2.6	27.7	29.93	74.0	13.8	V
2389.713	60.43	2.6	27.7	30.15	74.0	13.6	V
4826.719	42.42	-37.8	32.1	48.20	74.0	31.6	V
7236.094	41.56	-36.9	35.8	42.68	74.0	32.4	H
9647.813	43.99	-35.7	37.8	41.93	74.0	30.0	H
12060.000	46.99	-34.4	39.1	42.37	74.0	27.0	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)
1244.875	38.23	-41.2	24.2	55.26	74.0	35.8	V
2560.250	41.65	-40.0	27.9	53.81	74.0	32.3	V
4874.063	39.91	-37.8	32.2	45.51	74.0	34.1	H
7311.094	42.73	-36.9	36.0	43.67	74.0	31.3	V
9748.125	45.97	-35.7	37.8	43.84	74.0	28.0	H
12185.156	47.34	-34.8	39.0	43.10	74.0	26.7	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)
2488.331	60.63	2.7	27.7	30.26	74.0	13.4	V
2492.550	60.61	2.7	27.7	30.20	74.0	13.4	V
4924.219	41.35	-38.1	32.3	47.17	74.0	32.7	H
7386.094	43.07	-36.8	36.1	43.69	74.0	30.9	V
9847.969	45.13	-35.6	37.8	42.94	74.0	28.9	H
12309.844	47.37	-34.7	38.9	43.15	74.0	26.6	V

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)
2386.108	66.72	2.6	27.7	36.44	74.0	7.3	H
2388.370	66.59	2.6	27.7	36.31	74.0	7.4	H
4844.063	39.34	-37.9	32.1	45.09	74.0	34.7	V
7266.094	41.77	-36.9	35.8	42.78	74.0	32.2	V
9688.125	44.78	-35.7	37.8	42.68	74.0	29.2	V
12110.156	46.51	-34.4	39.0	41.91	74.0	27.5	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)
1244.875	38.23	-41.2	24.2	55.26	74.0	35.8	H
2560.250	41.65	-40.0	27.9	53.81	74.0	32.3	V
4874.063	39.58	-37.8	32.2	45.18	74.0	34.4	H
7311.094	41.49	-36.9	36.0	42.42	74.0	32.5	H
9748.125	45.44	-35.7	37.8	43.32	74.0	28.6	H
12185.156	47.52	-34.8	39.0	43.29	74.0	26.5	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)
2484.181	66.67	2.6	27.7	36.32	74.0	7.3	H
2486.650	65.96	2.7	27.7	35.60	74.0	8.0	V
4904.063	39.63	-37.9	32.3	45.31	74.0	34.4	V
7356.094	42.69	-36.9	36.1	43.52	74.0	31.3	V
9808.125	44.93	-35.7	37.8	42.79	74.0	29.1	V
12260.156	46.47	-34.8	38.9	42.29	74.0	27.5	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)
2385.775	45.70	2.62	27.66	15.42	54.00	8.30	V
2387.025	45.71	2.62	27.66	15.42	54.00	8.29	V
4823.750	41.20	-37.83	32.06	46.97	54.00	12.80	V
7236.250	31.19	-36.90	35.78	32.32	54.00	22.81	H
9648.125	33.82	-35.74	37.80	31.76	54.00	20.18	H
12060.000	35.92	-34.44	39.06	31.30	54.00	18.08	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)
2410.625	46.75	2.63	27.67	16.46	54.00	7.25	V
2463.625	47.08	2.59	27.69	16.80	54.00	6.92	V
4873.750	40.68	-37.78	32.18	46.28	54.00	13.32	V
7311.000	31.57	-36.89	35.96	32.51	54.00	22.43	V
9748.125	34.49	-35.67	37.80	32.37	54.00	19.51	H
12185.000	36.89	-34.75	38.99	32.66	54.00	17.11	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)
2483.500	45.57	2.64	27.69	15.23	54.00	8.43	V
2489.575	45.95	2.69	27.70	15.56	54.00	8.05	V
4923.750	36.02	-38.13	32.31	41.84	54.00	17.98	V
7386.250	32.08	-36.76	36.13	32.70	54.00	21.92	H
9848.125	34.44	-35.61	37.80	32.26	54.00	19.56	V
12310.000	36.16	-34.70	38.91	31.94	54.00	17.84	V

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)
2388.500	46.32	2.62	27.66	16.03	54.00	7.68	V
2389.975	46.48	2.62	27.66	16.20	54.00	7.52	V
4824.375	30.72	-37.83	32.06	36.49	54.00	23.28	V
7236.250	31.53	-36.90	35.78	32.65	54.00	22.47	V
9648.125	33.67	-35.74	37.80	31.61	54.00	20.33	H
12060.000	36.01	-34.44	39.06	31.39	54.00	17.99	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)
2411.450	46.04	2.63	27.67	15.74	54.00	7.96	V
2456.850	47.89	2.61	27.68	17.59	54.00	6.11	V
4873.125	31.21	-37.79	32.18	36.82	54.00	22.79	V
7311.000	31.60	-36.89	35.96	32.54	54.00	22.40	V
9748.125	34.56	-35.67	37.80	32.44	54.00	19.44	V
12185.000	36.60	-34.75	38.99	32.37	54.00	17.40	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)
2483.500	46.16	2.64	27.69	15.82	54.00	7.84	V
2486.475	46.17	2.67	27.70	15.80	54.00	7.83	V
4923.750	28.76	-38.13	32.31	34.58	54.00	25.24	H
7386.250	32.37	-36.76	36.13	33.00	54.00	21.63	H
9848.125	34.58	-35.61	37.80	32.39	54.00	19.42	H
12310.000	36.20	-34.70	38.91	31.98	54.00	17.80	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)
2373.125	45.62	2.62	27.65	15.34	54.00	8.38	V
2386.175	45.68	2.62	27.66	15.40	54.00	8.32	V
4823.125	30.20	-37.83	32.06	35.97	54.00	23.80	V
7236.250	31.22	-36.90	35.78	32.35	54.00	22.78	H
9648.125	33.94	-35.74	37.80	31.87	54.00	20.06	V
12060.000	36.00	-34.44	39.06	31.37	54.00	18.00	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)
2421.175	45.87	2.63	27.67	15.58	54.00	8.13	V
2452.925	46.11	2.62	27.68	15.80	54.00	7.89	V
4873.750	30.14	-37.78	32.18	35.74	54.00	23.86	H
7311.250	31.33	-36.89	35.96	32.27	54.00	22.67	H
9748.125	34.48	-35.67	37.80	32.35	54.00	19.52	V
12185.000	36.56	-34.75	38.99	32.33	54.00	17.44	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)
2483.675	45.82	2.65	27.69	15.48	54.00	8.18	V
2490.475	45.92	2.70	27.70	15.53	54.00	8.08	V
4923.750	29.32	-38.13	32.31	35.14	54.00	24.68	V
7386.250	32.14	-36.76	36.13	32.76	54.00	21.86	H
9848.125	34.47	-35.61	37.80	32.28	54.00	19.53	V
12310.000	36.26	-34.70	38.91	32.04	54.00	17.74	V

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)
2389.475	48.97	2.62	27.66	18.68	54.00	5.03	V
2389.625	49.95	2.62	27.66	19.67	54.00	4.05	V
4843.750	29.37	-37.86	32.11	35.13	54.00	24.63	V
7266.250	31.45	-36.86	35.85	32.46	54.00	22.55	V
9688.125	34.05	-35.70	37.80	31.95	54.00	19.95	H
12110.000	36.15	-34.43	39.03	31.55	54.00	17.85	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)
2410.450	46.46	2.63	27.67	16.17	54.00	7.54	V
2462.600	47.25	2.59	27.69	16.97	54.00	6.75	V
4873.750	29.35	-37.78	32.18	34.95	54.00	24.65	H
7266.250	31.40	-36.86	35.85	32.41	54.00	22.60	H
9688.125	34.01	-35.70	37.80	31.90	54.00	19.99	H
12110.000	36.05	-34.43	39.03	31.45	54.00	17.95	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)
2483.625	46.46	2.65	27.69	16.12	54.00	7.54	V
2483.950	46.46	2.65	27.69	16.12	54.00	7.54	V
4903.750	29.22	-37.94	32.26	34.90	54.00	24.78	H
7356.250	32.12	-36.89	36.06	32.95	54.00	21.88	V
9808.125	35.05	-35.66	37.80	32.91	54.00	18.95	H
12260.000	36.53	-34.75	38.94	32.34	54.00	17.47	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)
2383.625	45.85	2.6	27.7	15.57	54.0	8.1	V
2389.300	46.07	2.6	27.7	15.79	54.0	7.9	V
4822.500	30.11	-37.8	32.1	35.88	54.0	23.9	V
7236.250	31.48	-36.9	35.8	32.61	54.0	22.5	V
9648.125	34.24	-35.7	37.8	32.17	54.0	19.8	V
12060.000	36.09	-34.4	39.1	31.47	54.0	17.9	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)
2418.075	46.41	2.6	27.7	16.12	54.0	7.6	V
2456.200	47.17	2.6	27.7	16.88	54.0	6.8	V
4871.875	29.99	-37.8	32.2	35.60	54.0	24.0	H
7311.250	31.38	-36.9	36.0	32.31	54.0	22.6	H
9748.125	34.27	-35.7	37.8	32.15	54.0	19.7	H
12185.000	36.46	-34.8	39.0	32.22	54.0	17.5	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)
2483.525	45.41	2.6	27.7	15.07	54.0	8.6	V
2483.965	45.82	2.6	27.7	15.47	54.0	8.2	V
4923.750	29.34	-38.1	32.3	35.16	54.0	24.7	V
7386.250	32.04	-36.8	36.1	32.66	54.0	22.0	H
9848.125	34.62	-35.6	37.8	32.43	54.0	19.4	H
12310.000	36.31	-34.7	38.9	32.10	54.0	17.7	V

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)
2389.475	48.97	2.6	27.7	18.68	54.0	5.0	V
2389.905	49.96	2.6	27.7	19.67	54.0	4.0	V
4843.750	29.37	-37.9	32.1	35.13	54.0	24.6	V
7266.250	31.45	-36.9	35.8	32.46	54.0	22.5	V
9688.125	34.05	-35.7	37.8	31.95	54.0	19.9	H
12110.000	36.15	-34.4	39.0	31.55	54.0	17.8	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)
2399.725	46.72	2.6	27.7	16.43	54.0	7.3	V
2467.600	46.84	2.6	27.7	16.57	54.0	7.2	V
4873.750	29.40	-37.8	32.2	35.00	54.0	24.6	H
7311.250	31.71	-36.9	36.0	32.64	54.0	22.3	V
9748.125	34.70	-35.7	37.8	32.57	54.0	19.3	V
12185.000	36.84	-34.8	39.0	32.60	54.0	17.2	V

Ch9

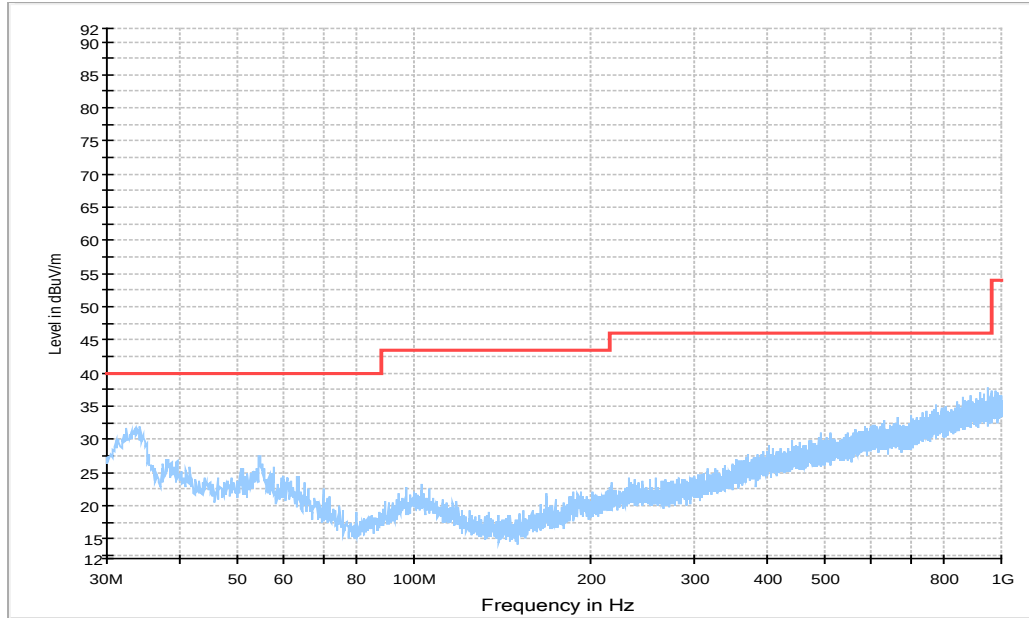
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.600	49.85	2.6	27.7	19.51	54.0	4.2	V
2484.175	49.82	2.6	27.7	19.47	54.0	4.2	V
4903.750	28.87	-37.9	32.3	34.55	54.0	25.1	H
7356.250	31.62	-36.9	36.1	32.44	54.0	22.4	V
9808.125	34.58	-35.7	37.8	32.44	54.0	19.4	H
12260.000	35.94	-34.8	38.9	31.75	54.0	18.1	V

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

Conclusion: Pass

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 1GHz



BELOW 30MHz

No emissions were found within 20dB of the limit below 30MHz.

C.1.3 Band Edges Compliance– Radiated

INPAQ

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
802.11n(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

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Conclusion: PASS

SPEED

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.13	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.14	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.15	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.16	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.17	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.18	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.C.1.3.19	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.C.1.3.20	P

802.11ax-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.C.1.3.21	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.C.1.3.22	P

802.11ax-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.C.1.3.23	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.C.1.3.24	P

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Conclusion: PASS

Test graphs as below:

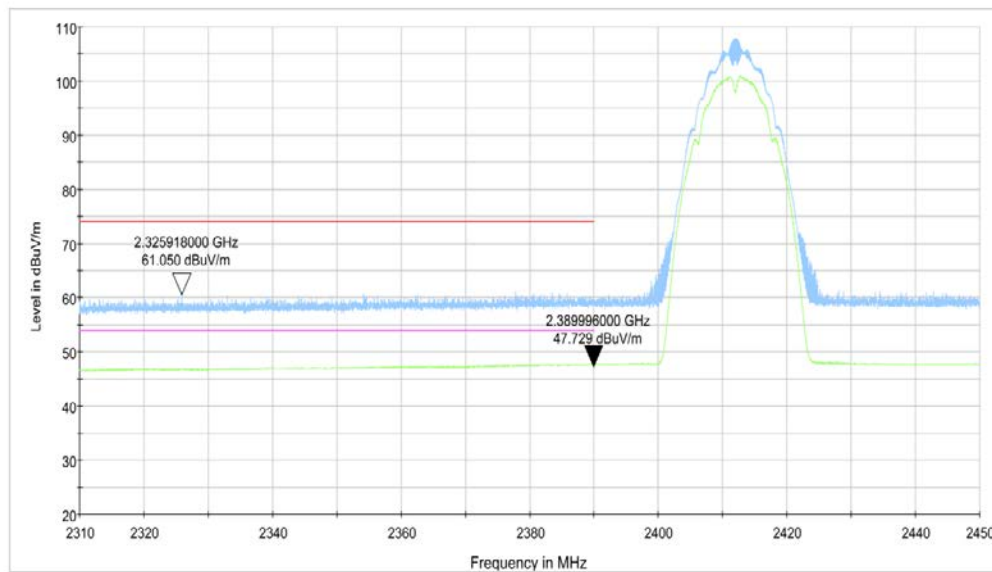


Fig.C.1.3.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

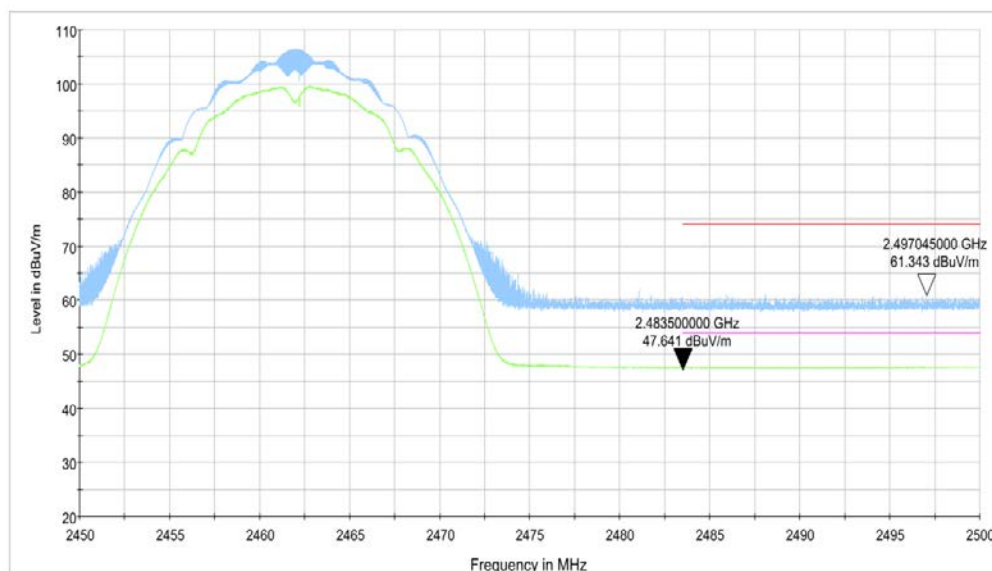


Fig.C.1.3.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

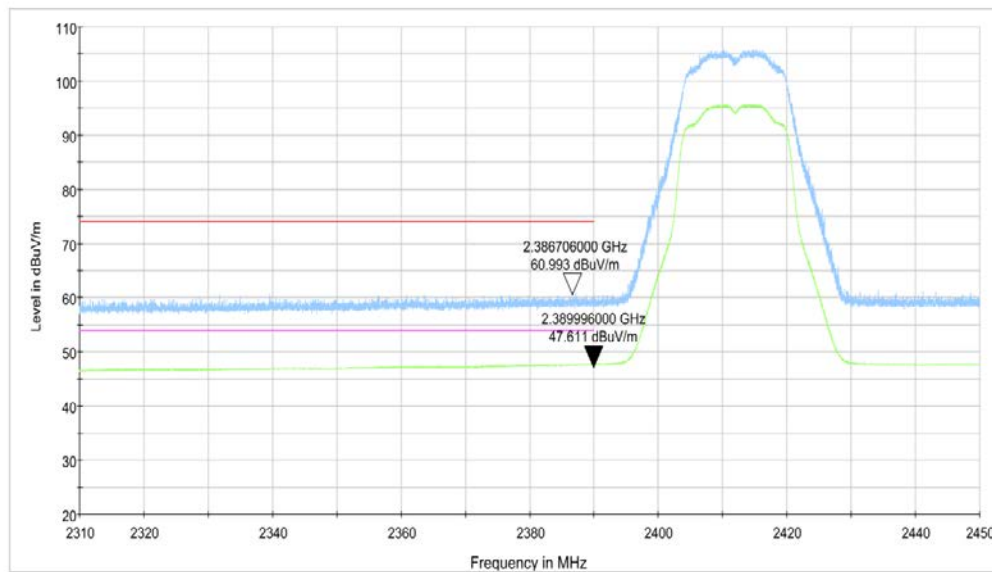


Fig.C.1.3.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz

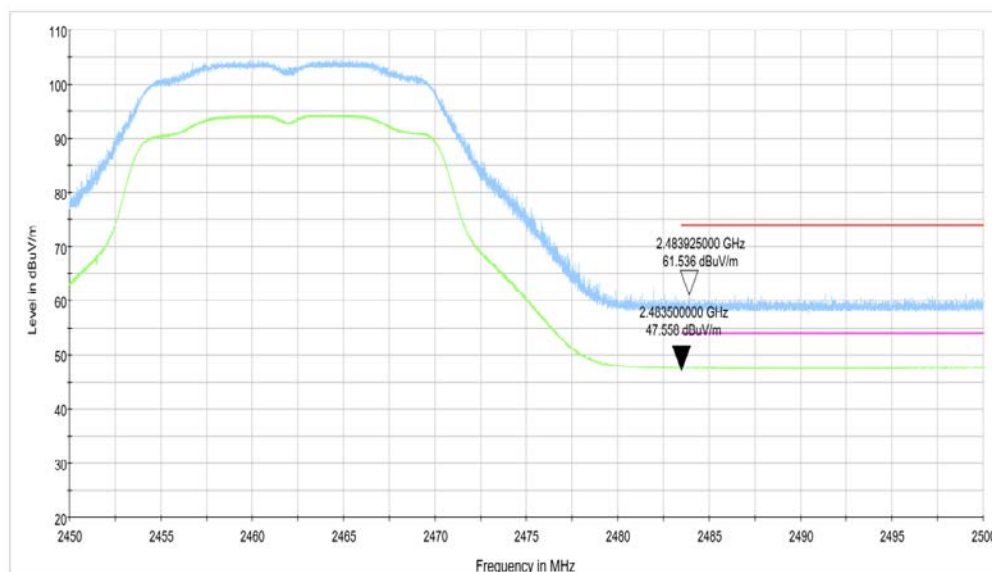


Fig.C.1.3.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

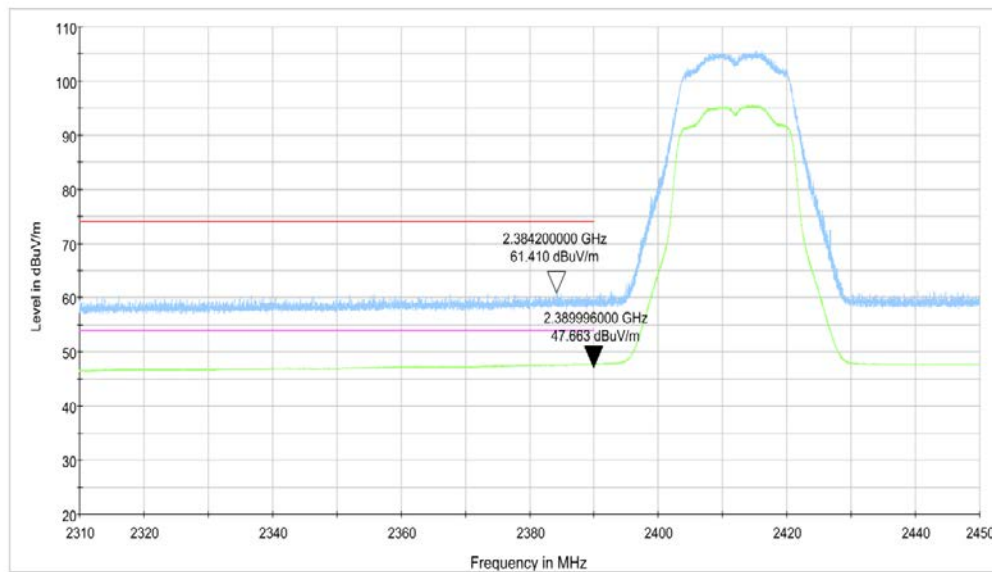


Fig.C.1.3.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1,
2.31 GHz - 2.45GHz

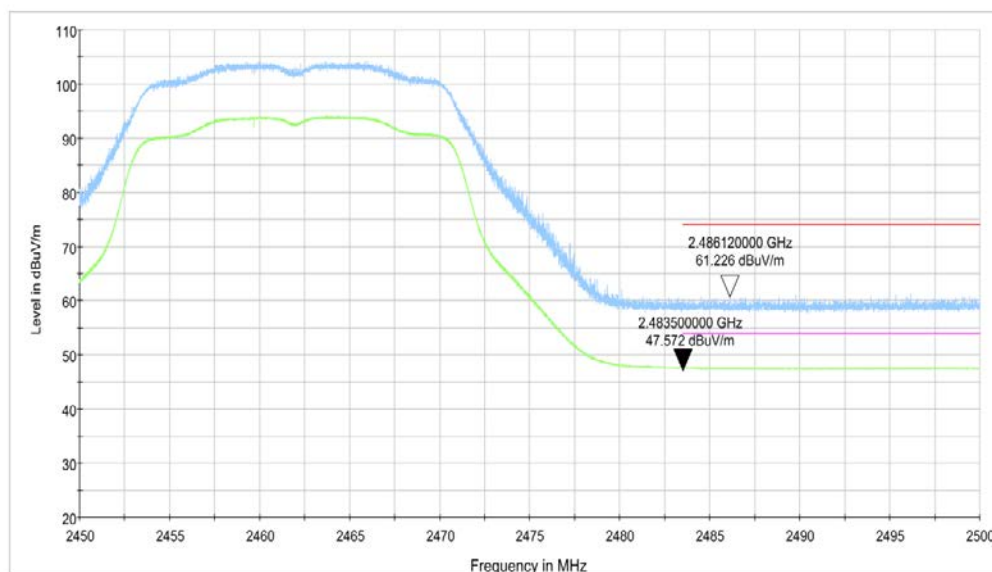


Fig.C.1.3.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11,
2.45 GHz - 2.50GHz

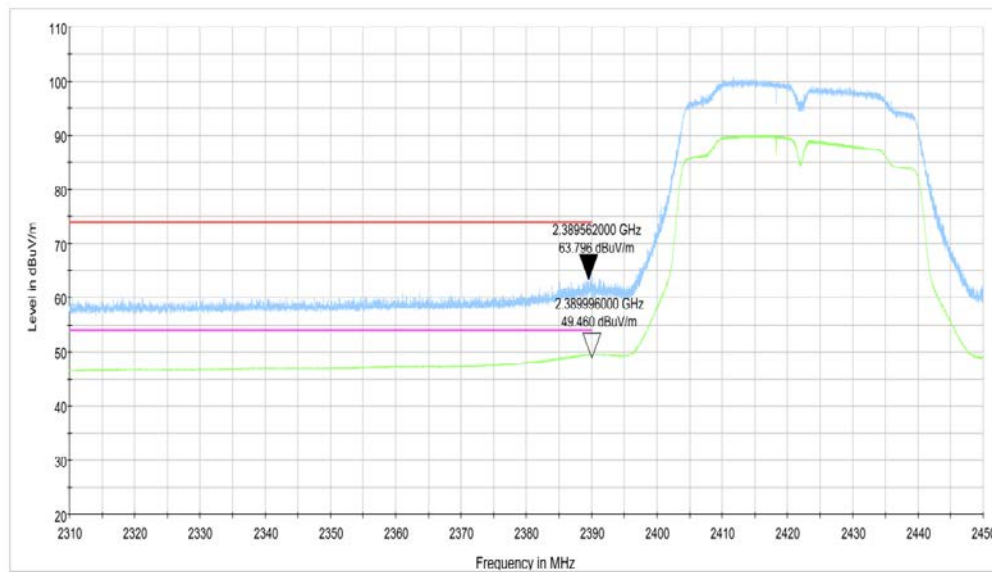


Fig.C.1.3.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.45GHz

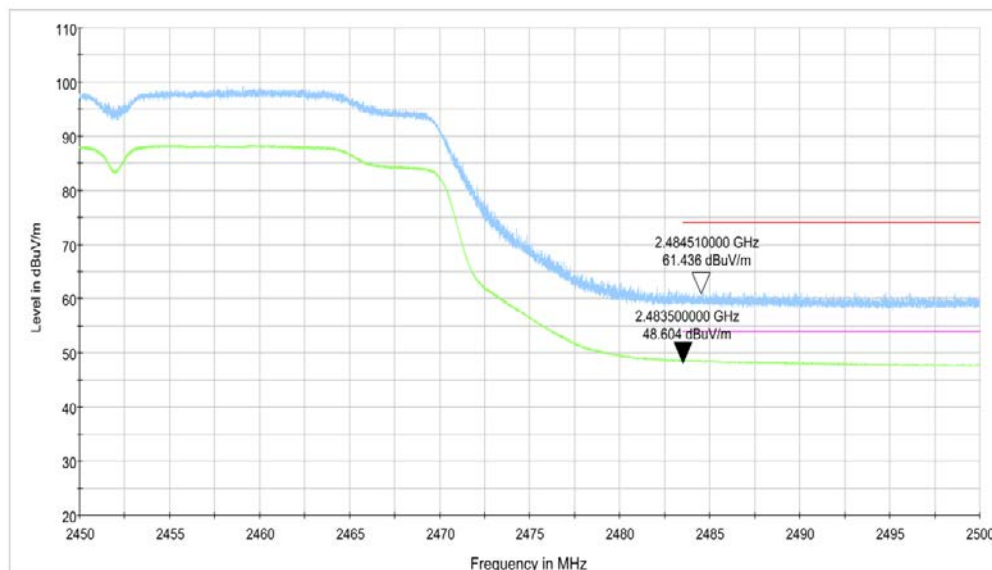


Fig.C.1.3.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

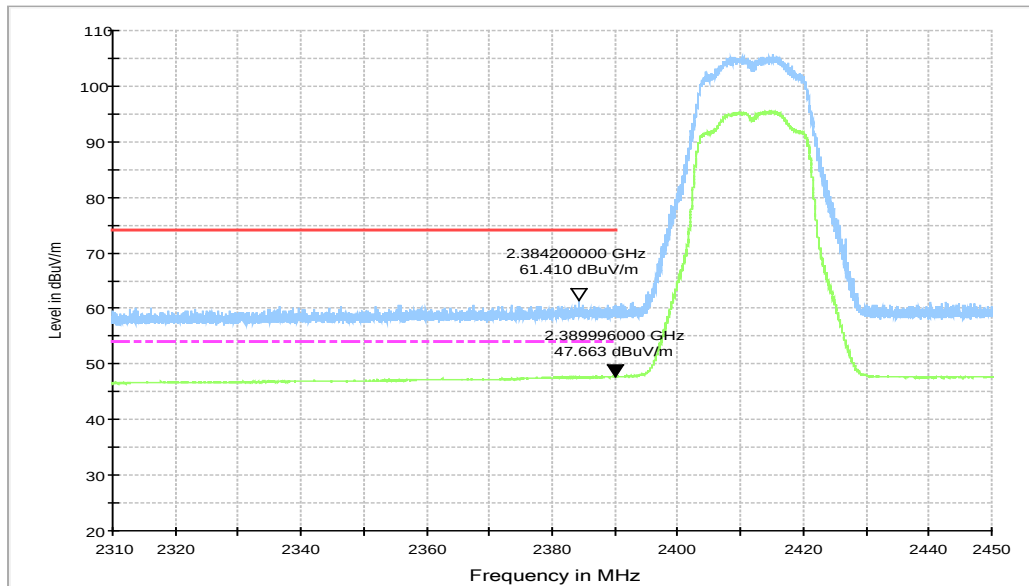


Fig.C.1.3.9 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1,
2.31GHz - 2.45GHz

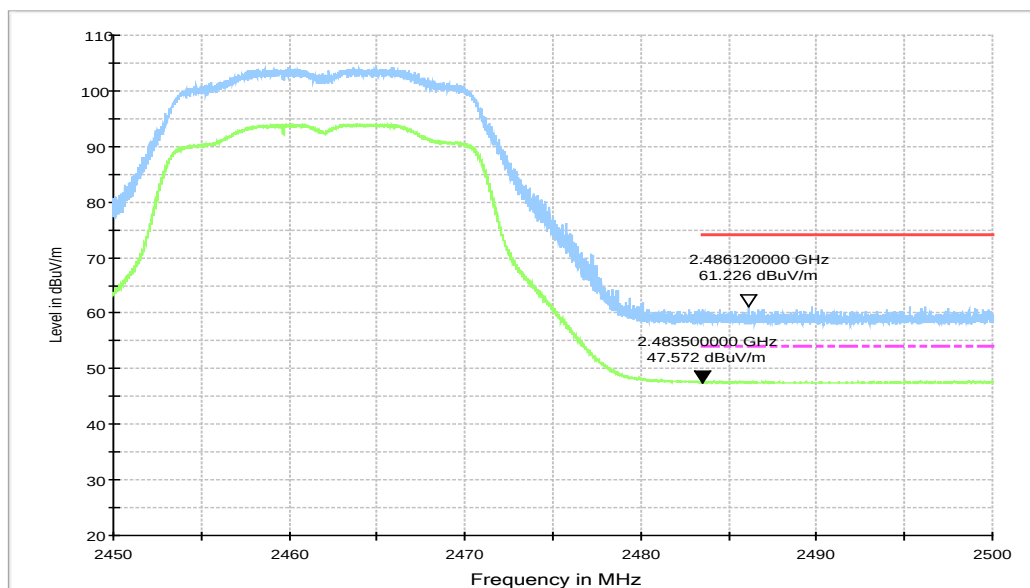


Fig.C.1.3.10 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11,
2.45 GHz - 2.50GHz

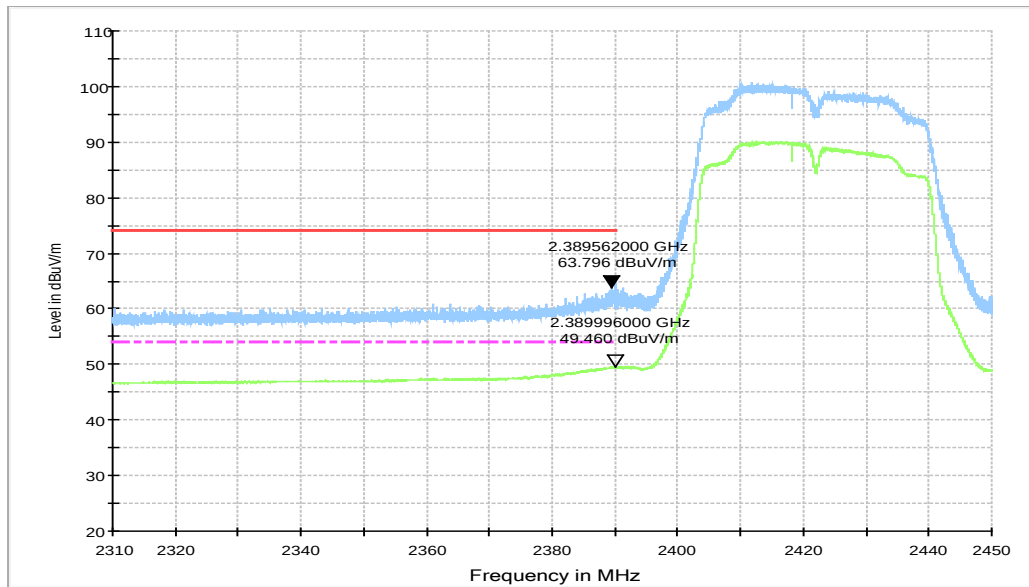


Fig.C.1.3.11 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch3, 2.31GHz - 2.45GHz

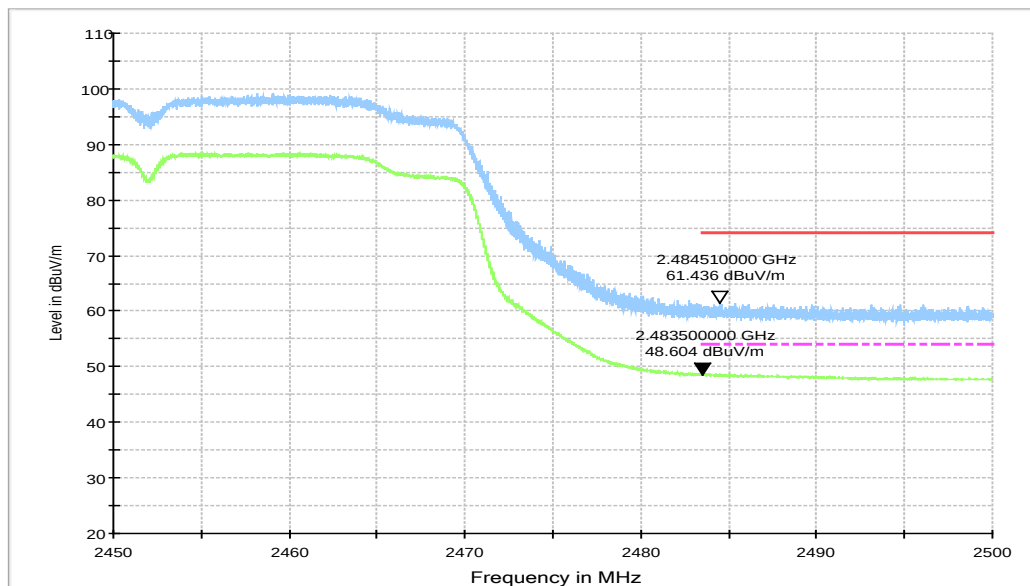


Fig.C.1.3.12 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch9, 2.45 GHz - 2.50GHz

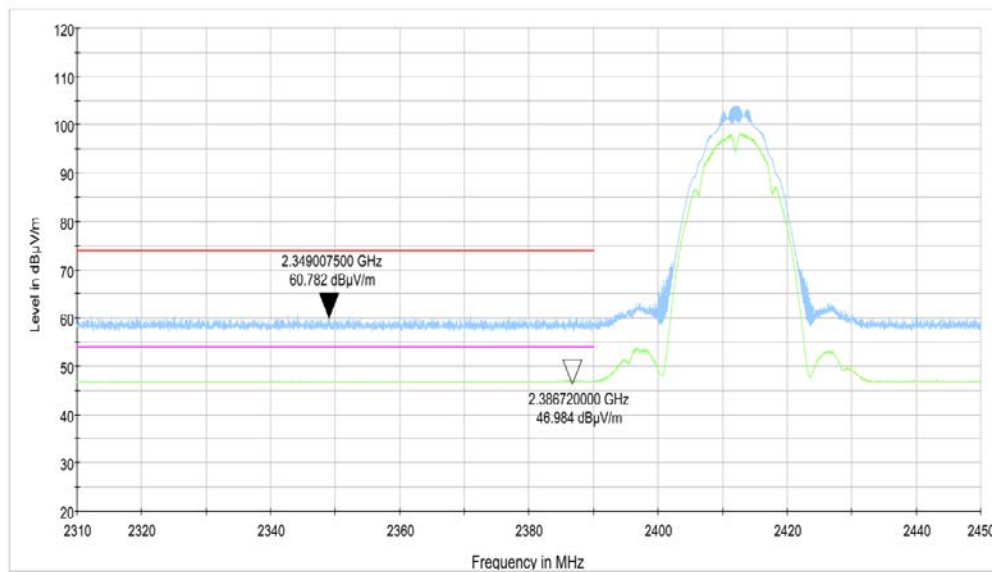


Fig.C.1.3.13 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

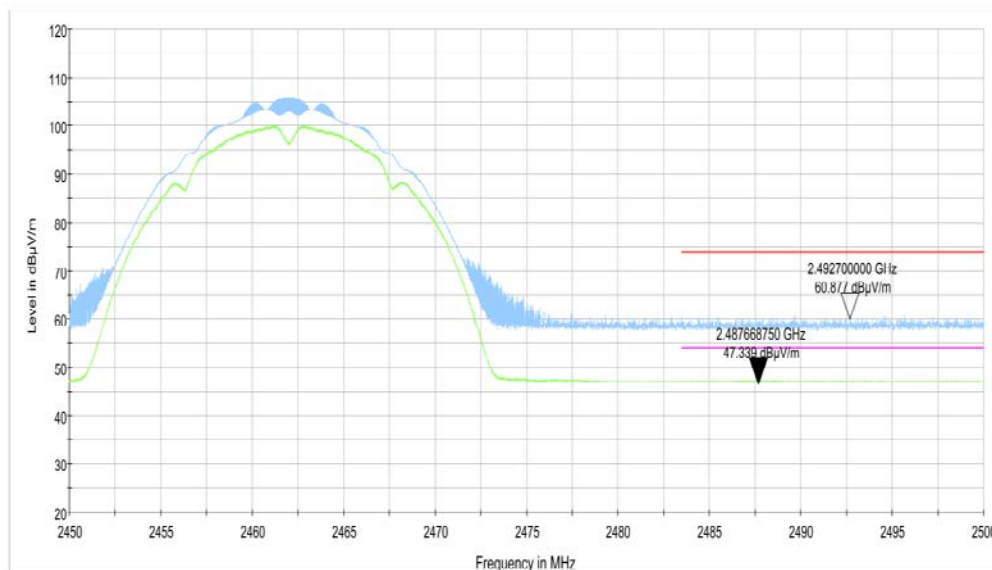


Fig.C.1.3.14 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

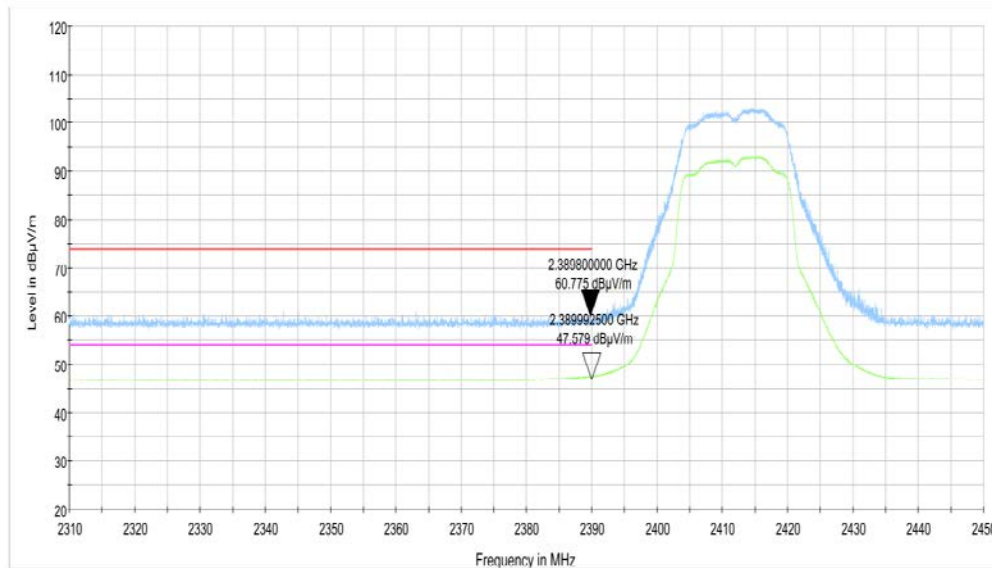


Fig.C.1.3.15 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz

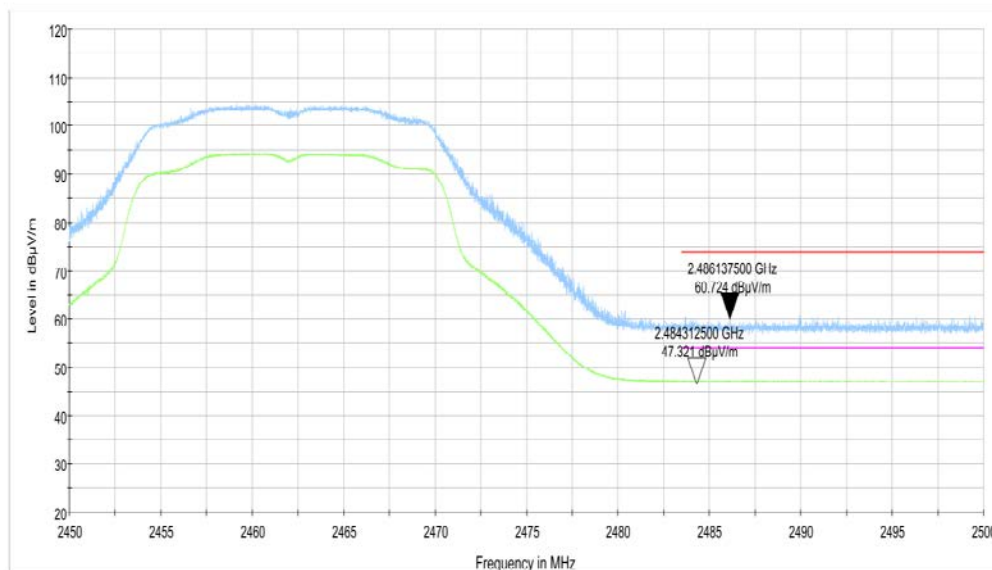


Fig.C.1.3.16 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

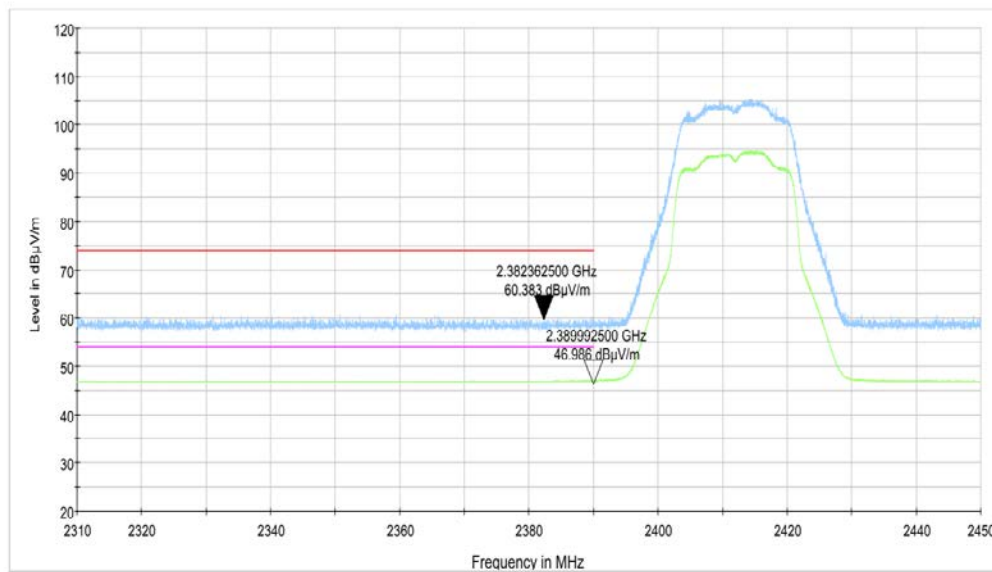


Fig.C.1.3.17 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1,
2.31 GHz - 2.45GHz

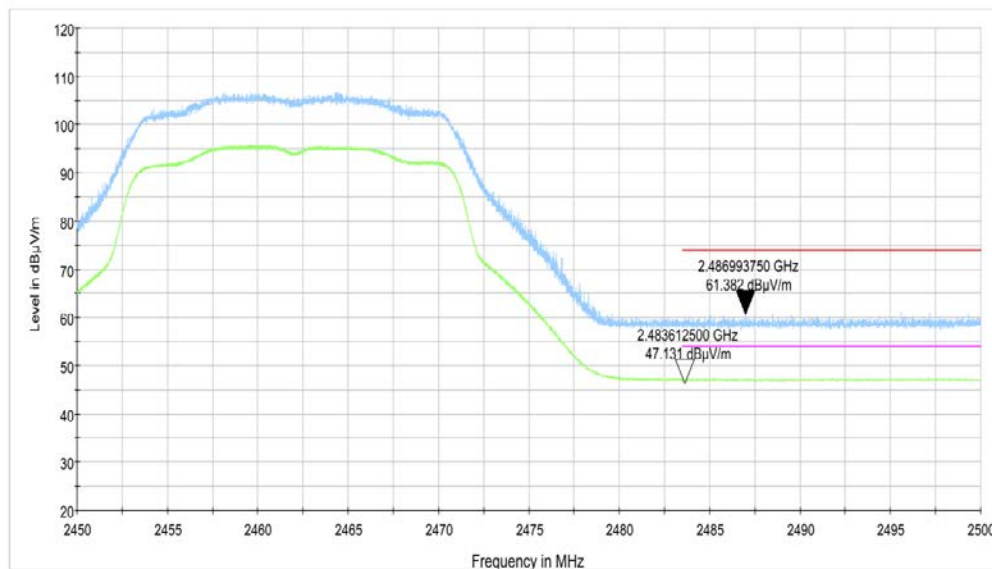


Fig.C.1.3.18 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11,
2.45 GHz - 2.50GHz

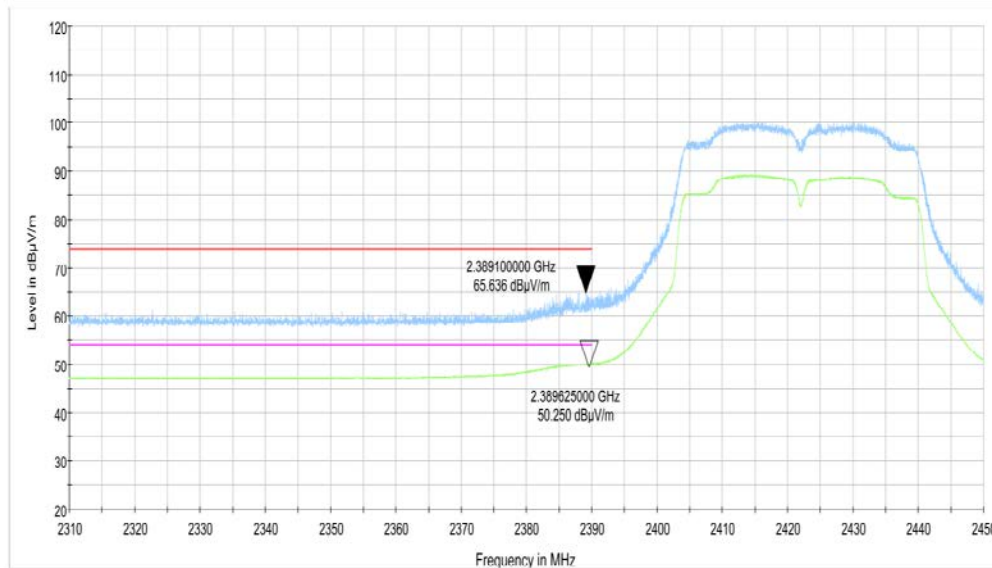


Fig.C.1.3.19 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.45GHz

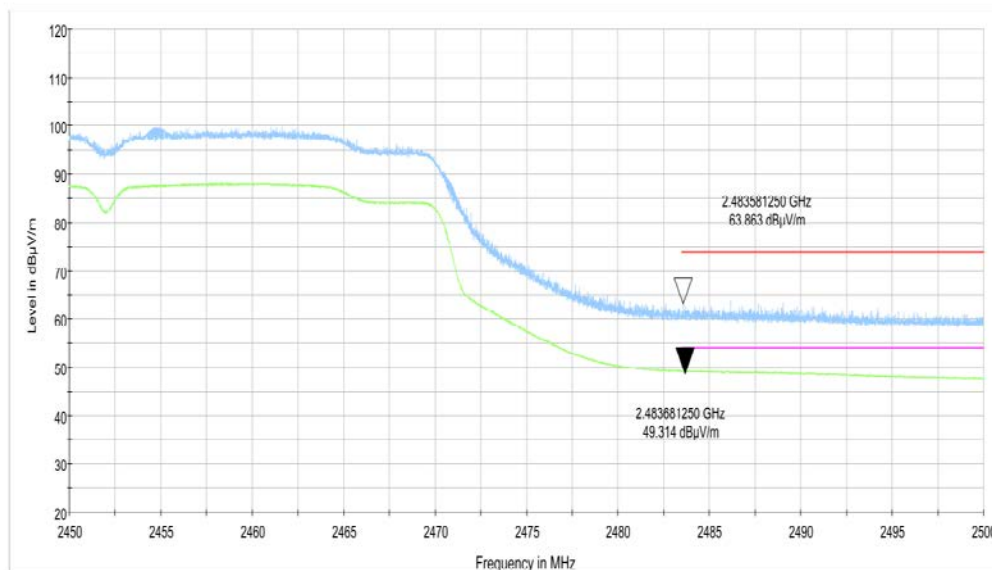


Fig.C.1.3.20 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

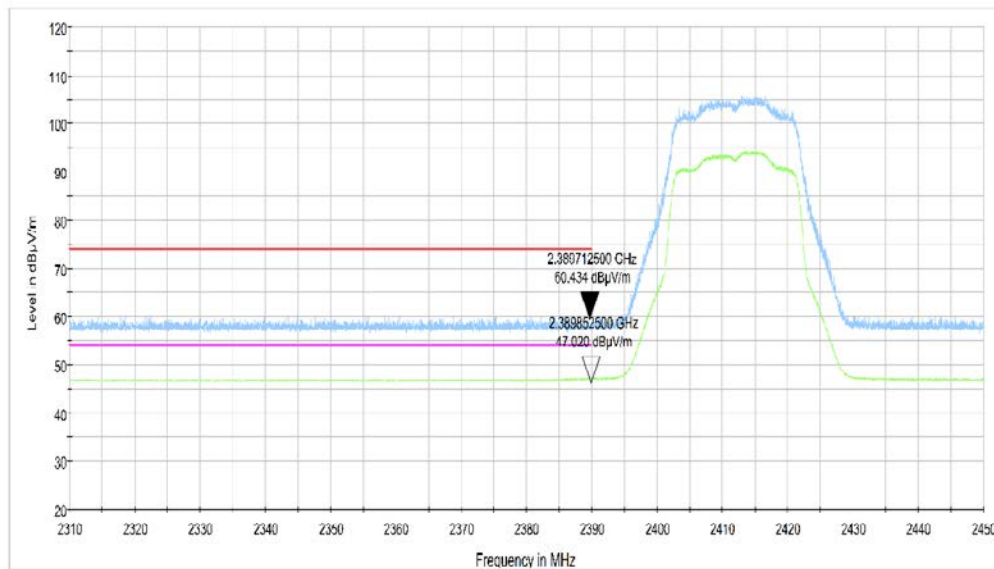


Fig.C.1.3.21 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, 2.31GHz - 2.45GHz

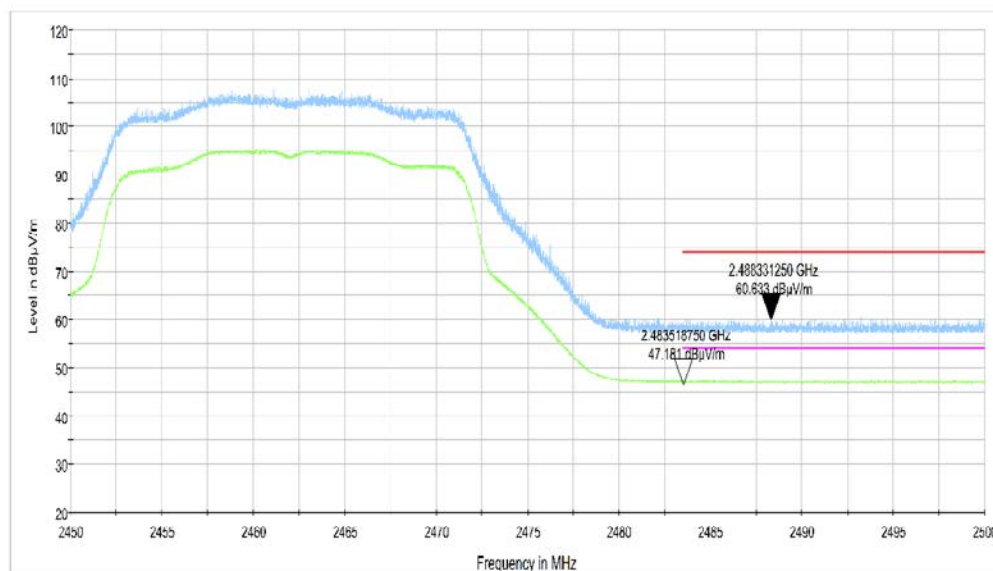


Fig.C.1.3.22 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

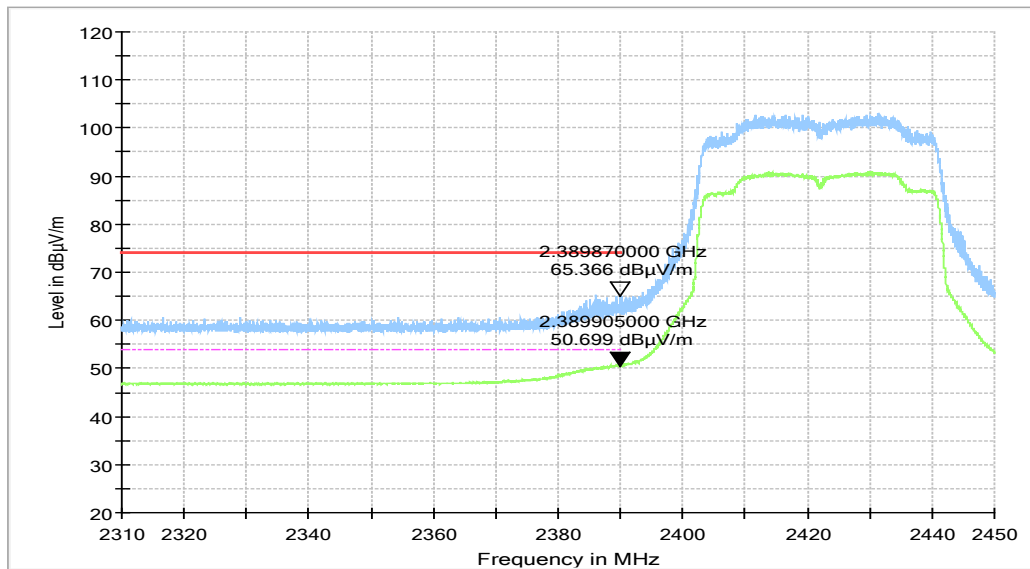


Fig.C.1.3.23 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch3,
2.31GHz - 2.45GHz

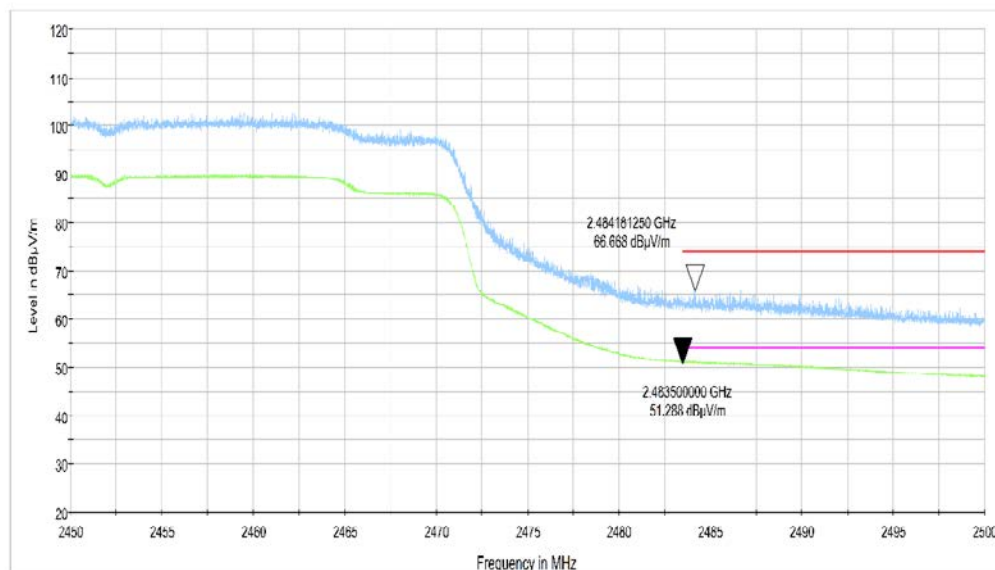


Fig.C.1.3.24 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch9,
2.45 GHz - 2.50GHz

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.

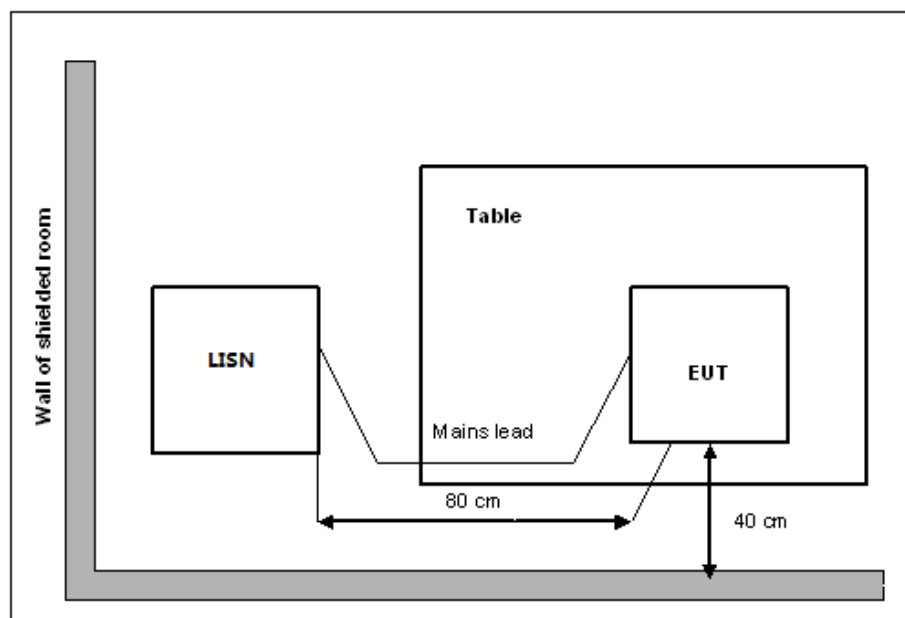
The measurement bandwidth is:

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:

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:

Traffic:

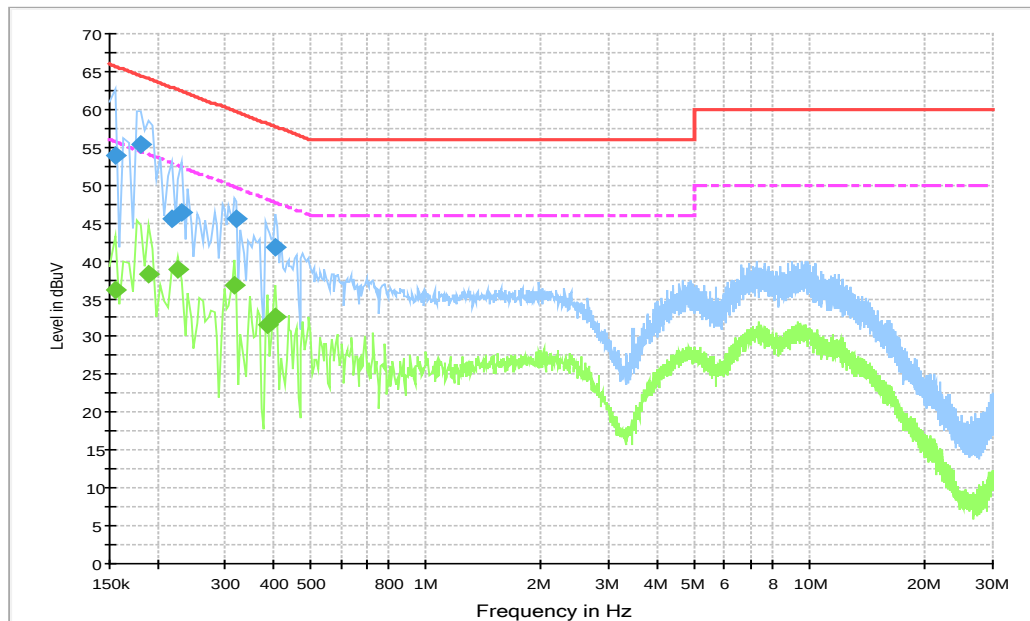


Fig.C.2.1 AC Powerline Conducted Emission-802.11b

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)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	54.0	10000	9.000	L1	28.8	11.8	65.8
0.181500	55.4	10000	9.000	N	28.0	9.0	64.4
0.217500	45.5	10000	9.000	N	27.2	17.5	62.9
0.231000	46.4	10000	9.000	L1	26.9	16.0	62.4
0.321000	45.5	10000	9.000	L1	25.4	14.2	59.7
0.406500	41.9	10000	9.000	N	24.3	15.9	57.7

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	36.2	10000.	9.000	L1	28.8	19.5	55.8
0.190500	38.2	10000.	9.000	N	27.8	15.8	54.0
0.226500	38.9	10000.	9.000	N	27.0	13.7	52.6
0.316500	36.8	10000.	9.000	N	25.5	13.0	49.8
0.388500	31.5	10000.	9.000	N	24.5	16.6	48.1
0.406500	32.7	10000.	9.000	N	24.3	15.0	47.7

Idle:

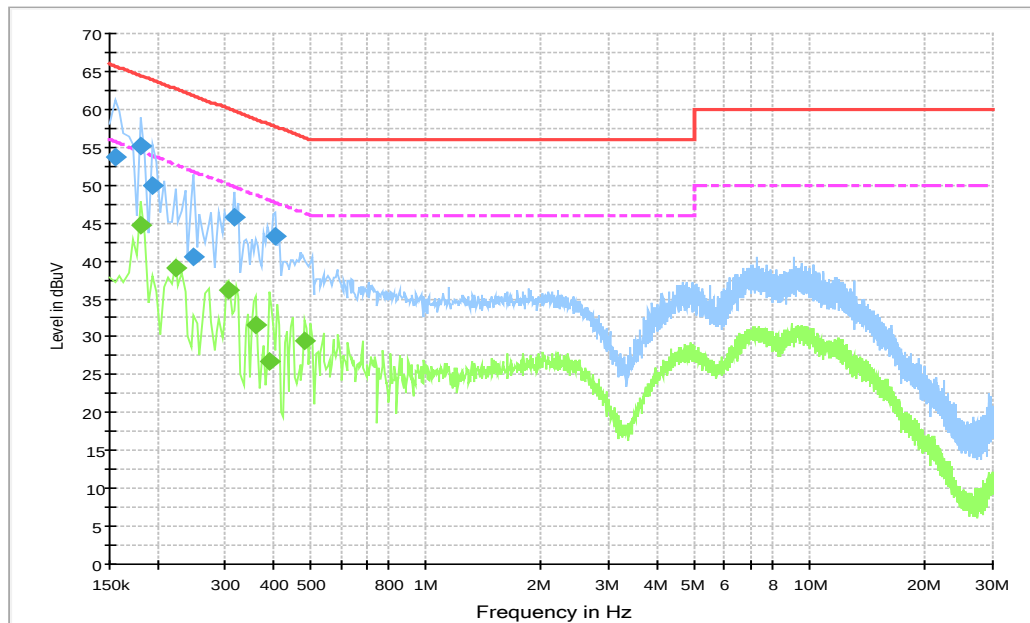


Fig.C.2.2 AC Powerline Conducted Emission-Idle

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)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	53.8	10000	9.000	L1	28.8	12.0	65.8
0.181500	55.1	10000	9.000	N	28.0	9.3	64.4
0.195000	50.0	10000	9.000	N	27.7	13.8	63.8
0.249000	40.4	10000	9.000	N	26.6	21.4	61.8
0.316500	45.7	10000	9.000	N	25.5	14.1	59.8
0.406500	43.2	10000	9.000	L1	24.3	14.6	57.7

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.181500	44.7	10000.	9.000	N	28.0	9.7	54.4
0.222000	39.1	10000.	9.000	N	27.1	13.7	52.7
0.307500	36.1	10000.	9.000	N	25.6	14.0	50.0
0.361500	31.6	10000.	9.000	N	24.8	17.1	48.7
0.393000	26.8	10000.	9.000	L1	24.5	21.2	48.0
0.483000	29.4	10000.	9.000	N	23.5	16.9	46.3

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