FCC PART 15C
TEST REPORT
No.I21Z70160-EMC10

for

Samsung Electronics Co., Ltd.

Notebook PC

NP760XDA, NP762XDA

with

FCC ID: ZCANP760XDA

Hardware Version: REV1.0

Software Version: Windows10-Pro

Issued Date: 2021-06-04

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z70160-EMC10	Rev.0	1st edition	2021-06-04

CONTENTS

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 1:CTTL(Huayuan North Road)

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

Location 2: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℃

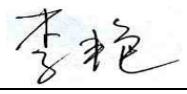
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2021-04-25

Testing End Date: 2021-05-30

1.5. Signature

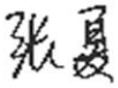


Li Yan

(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.
Address:	19 Chapin Rd.,Building D Pine Brook, NJ 07058
Contact:	Jenni Chun
Email:	j1.chun@samsung.com
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Fax:	/

2.2. Manufacturer Information

Company Name:	Samsung Electronics Co., Ltd.
Address:	Samsung R5, Maetan dong 129, Samsung ro Youngtong gu, Suwon city 443 742, Korea
Contact:	Sunghoon Cho
Email:	ggobi.cho@samsung.com
Telephone:	+82-10-2722-4159
Fax:	/

3. PRODUCT INFORMATION

3.1. About EUT

Description	Notebook PC
Model name	NP760XDA, NP762XDA
FCC ID	ZCANP760XDA

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
UT13a	2170160UT12a	REV1.0	Windows10-Pro
UT22a	2170160UT33a	REV1.0	Windows10-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	Adapter	/	/
AE2	battery	/	/

AE1

Model	A20-135P1A
Manufacturer	Chicony Power Technology (Chong Qing) Co., Ltd.
Length	/

AE2

Model	AA-PBAN6TI
Manufacturer	SUNWODA Electronic Co., Ltd.

*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.

The difference of the model name is only for different marketing purposes.

Antenna information

Item	Spec.	Type	Vendor	Vendor P/N	Sample under test
Antenna	Main antenna (Chain A)	PIFA	INPAQ	WA-F-LA-02-090	UT13a
	Auxiliary antenna (Chain B)	PIFA			
Antenna	Main antenna (Chain A)	PIFA	SPEED	F-0G-XZ-0272-000-00	UT22a
	Auxiliary antenna (Chain B)	PIFA			

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 parameters, referring to Annex A for detailed information, is supplied by the client 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: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB 558074 D01	Federal Communications Commission Office of Engineering and Technology Laboratory Division 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	100376	R&S	1 year	2021-09-04
2	BiLog Antenna	VULB9163	9163-482	Schwarzbeck	1 year	2021-11-04
3	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	1 year	2021-10-11
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	1 year	2021-08-05
5	Analytical Spectrometer	FSV40	R&S	101047	1 year	2022-05-17
6	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2021-12-10
7	Test Receiver	ESU26	100235	R&S	1 year	2022-02-23

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	/
30MHz ≤ f ≤ 1GHz	5.40
1GHz ≤ f ≤18GHz	4.32
18GHz ≤ f ≤40GHz	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

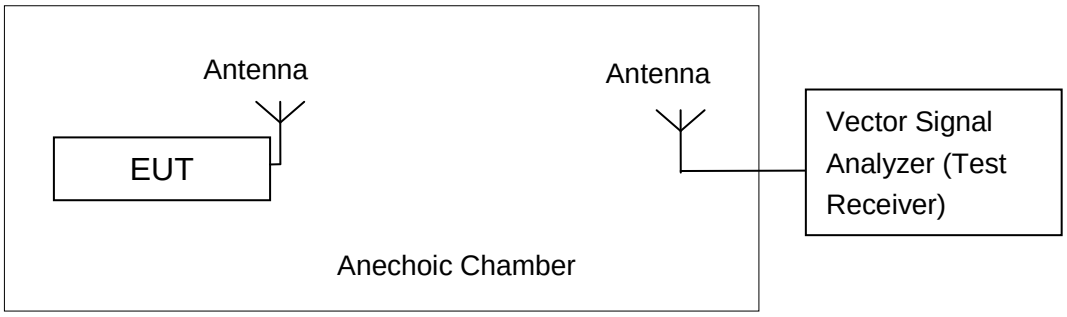
C.1. Radiated Spurious Emission

Specification Reference

FCC 47 CFR Parts 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(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(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:

Result=P_{Mea}+$A_{Rpl=}$ P_{Mea}+Cable Loss+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. The Measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B); only the worst cases are shown in this report.

C.1.1 Radiated Spurious Emission- above 1GHz

INPAQ

Measurement results

Peak

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)
2335.480	60.65	2.83	31.95	25.88	74.00	13.35	H
2376.514	60.36	2.86	31.99	25.52	74.00	13.64	V
4824.000	38.66	-33.24	34.13	37.77	74.00	35.34	H
7236.000	41.13	-30.88	35.80	36.21	74.00	32.87	H
9648.000	41.81	-30.46	36.71	35.56	74.00	32.19	V
12060.000	44.07	-28.70	38.74	34.03	74.00	29.93	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)
2357.600	44.03	-34.97	31.97	47.04	74.00	29.97	H
2508.000	44.38	-34.24	32.12	46.50	74.00	29.62	V
4874.000	38.87	-33.30	34.15	38.02	74.00	35.13	V
7311.000	40.87	-30.82	35.83	35.86	74.00	33.13	H
9748.000	40.92	-30.33	36.85	34.40	74.00	33.08	V
12185.000	44.57	-28.11	38.81	33.86	74.00	29.43	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)
2489.565	61.20	2.94	32.09	26.17	74.00	12.80	V
2494.225	60.71	2.94	32.09	25.68	74.00	13.29	V
4924.000	39.82	-33.53	34.17	39.18	74.00	34.18	H
7386.000	39.13	-31.45	35.86	34.73	74.00	34.87	H
9848.000	42.10	-30.18	36.99	35.29	74.00	31.90	V
12310.000	43.69	-27.75	38.89	32.56	74.00	30.31	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)
2361.828	60.12	2.85	31.97	25.30	74.00	13.88	H
2371.614	59.95	2.85	31.98	25.11	74.00	14.05	V
4824.000	39.46	-33.24	34.13	38.56	74.00	34.54	V
7236.000	41.32	-30.88	35.80	36.40	74.00	32.68	V
9648.000	41.26	-30.46	36.71	35.01	74.00	32.74	H
12060.000	44.78	-28.70	38.74	34.74	74.00	29.22	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)
2359.400	43.58	-34.90	31.97	46.51	74.00	30.42	V
2512.200	43.98	-34.28	32.12	46.13	74.00	30.02	H
4874.000	39.65	-33.30	34.15	38.80	74.00	34.35	H
7311.000	40.27	-30.82	35.83	35.26	74.00	33.73	H
9748.000	41.87	-30.33	36.85	35.35	74.00	32.13	H
12185.000	44.93	-28.11	38.81	34.22	74.00	29.07	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)
2488.250	60.14	2.94	32.09	25.12	74.00	13.86	H
2489.080	60.56	2.94	32.09	25.54	74.00	13.44	H
4924.000	39.55	-33.53	34.17	38.90	74.00	34.45	V
7386.000	39.58	-31.45	35.86	35.18	74.00	34.42	V
9848.000	41.85	-30.18	36.99	35.04	74.00	32.15	V
12310.000	45.01	-27.75	38.89	33.87	74.00	28.99	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)
2386.874	60.42	2.86	32.00	25.57	74.00	13.58	V
2389.646	60.34	2.87	32.00	25.48	74.00	13.66	H
4824.000	38.38	-33.24	34.13	37.48	74.00	35.62	H
7236.000	40.15	-30.88	35.80	35.24	74.00	33.85	V
9648.000	40.57	-30.46	36.71	34.32	74.00	33.43	H
12060.000	44.28	-28.70	38.74	34.25	74.00	29.72	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)
2353.600	43.15	-35.13	31.96	46.32	74.00	30.85	V
2511.800	43.70	-34.27	32.12	45.85	74.00	30.30	H
4874.000	37.67	-33.30	34.15	36.82	74.00	36.33	V
7311.000	40.24	-30.82	35.83	35.23	74.00	33.76	H
9748.000	40.71	-30.33	36.85	34.19	74.00	33.29	H
12185.000	44.06	-28.11	38.81	33.36	74.00	29.94	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)
2484.375	60.15	2.93	32.09	25.13	74.00	13.85	V
2485.520	60.32	2.93	32.09	25.30	74.00	13.68	H
4924.000	38.32	-33.53	34.17	37.68	74.00	35.68	V
7386.000	38.91	-31.45	35.86	34.51	74.00	35.09	V
9848.000	41.12	-30.18	36.99	34.31	74.00	32.88	V
12310.000	43.98	-27.75	38.89	32.84	74.00	30.02	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)
2352.742	59.87	2.84	31.96	25.07	74.00	14.13	H
2381.022	60.11	2.86	31.99	25.26	74.00	13.89	V
4844.000	38.03	-33.23	34.14	37.13	74.00	35.97	H
7266.000	40.43	-30.60	35.81	35.22	74.00	33.57	H
9688.000	41.64	-30.37	36.77	35.24	74.00	32.36	V
12110.000	44.22	-28.47	38.77	33.92	74.00	29.78	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)
2361.800	43.33	-34.81	31.97	46.17	74.00	30.67	V
2511.600	43.82	-34.27	32.12	45.97	74.00	30.18	V
4874.000	37.91	-33.30	34.15	37.06	74.00	36.09	H
7311.000	39.48	-30.82	35.83	34.47	74.00	34.52	H
9748.000	40.09	-30.33	36.85	33.58	74.00	33.91	V
12185.000	43.97	-28.11	38.81	33.26	74.00	30.03	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)
2484.120	60.60	2.93	32.09	25.58	74.00	13.40	V
2492.345	60.60	2.94	32.09	25.57	74.00	13.40	H
4904.000	38.10	-33.42	34.16	37.36	74.00	35.90	H
7356.000	40.91	-31.17	35.84	36.24	74.00	33.09	V
9808.000	40.00	-30.32	36.94	33.39	74.00	34.00	V
12260.000	43.16	-27.88	38.86	32.18	74.00	30.84	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)
2384.942	60.12	2.9	32.0	25.27	74.0	13.9	H
2385.908	60.49	2.9	32.0	25.63	74.0	13.5	V
4824.000	38.89	-33.2	34.1	38.00	74.0	35.1	H
7236.000	40.59	-30.9	35.8	35.68	74.0	33.4	V
9648.000	42.01	-30.5	36.7	35.76	74.0	32.0	H
12060.000	44.75	-28.7	38.7	34.72	74.0	29.2	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)
2353.400	42.77	-35.1	32.0	45.95	74.0	31.2	H
2511.800	43.60	-34.3	32.1	45.75	74.0	30.4	V
4874.000	38.58	-33.3	34.2	37.73	74.0	35.4	V
7311.000	41.13	-30.8	35.8	36.12	74.0	32.9	H
9748.000	40.38	-30.3	36.9	33.86	74.0	33.6	V
12185.000	43.92	-28.1	38.8	33.22	74.0	30.1	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)
2486.685	60.31	2.9	32.1	25.29	74.0	13.7	V
2493.905	60.34	2.9	32.1	25.31	74.0	13.7	V
4924.000	39.19	-33.5	34.2	38.55	74.0	34.8	V
7386.000	39.63	-31.5	35.9	35.23	74.0	34.4	V
9848.000	40.91	-30.2	37.0	34.10	74.0	33.1	V
12310.000	43.25	-27.8	38.9	32.12	74.0	30.8	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)
2372.272	59.87	2.9	32.0	25.04	74.0	14.1	H
2380.154	59.63	2.9	32.0	24.78	74.0	14.4	V
4844.000	37.64	-33.2	34.1	36.73	74.0	36.4	V
7266.000	40.27	-30.6	35.8	35.06	74.0	33.7	V
9688.000	41.00	-30.4	36.8	34.60	74.0	33.0	V
12110.000	43.33	-28.5	38.8	33.03	74.0	30.7	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)
2360.400	43.16	-34.9	32.0	46.05	74.0	30.8	V
2508.600	43.83	-34.2	32.1	45.95	74.0	30.2	V
4874.000	37.25	-33.3	34.2	36.40	74.0	36.8	V
7311.000	39.72	-30.8	35.8	34.71	74.0	34.3	V
9748.000	39.49	-30.3	36.9	32.97	74.0	34.5	H
12185.000	43.14	-28.1	38.8	32.43	74.0	30.9	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)
2483.585	60.75	2.9	32.1	25.74	74.0	13.2	V
2485.215	60.72	2.9	32.1	25.70	74.0	13.3	V
4904.000	37.63	-33.4	34.2	36.90	74.0	36.4	H
7356.000	39.07	-31.2	35.8	34.40	74.0	34.9	H
9808.000	39.82	-30.3	36.9	33.21	74.0	34.2	H
12260.000	44.93	-27.9	38.9	33.95	74.0	29.1	V

Average

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)
2389.680	46.29	2.87	32.00	11.42	54.00	7.71	V
2389.980	46.30	2.87	32.00	11.43	54.00	7.70	V
4824.400	26.96	-33.24	34.13	26.06	54.00	27.04	V
7236.400	29.28	-30.88	35.80	24.36	54.00	24.72	H
9648.400	29.76	-30.46	36.71	23.51	54.00	24.24	V
12060.400	32.29	-28.70	38.74	22.26	54.00	21.71	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)
2423.220	47.03	2.89	32.03	12.12	54.00	6.97	V
2451.960	47.09	2.91	32.06	12.13	54.00	6.91	V
4873.900	26.93	-33.30	34.15	26.08	54.00	27.07	H
7311.100	29.06	-30.82	35.83	24.05	54.00	24.94	H
9748.300	29.97	-30.33	36.85	23.45	54.00	24.03	V
12184.600	32.72	-28.11	38.81	22.02	54.00	21.28	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	46.39	2.93	32.09	11.37	54.00	7.61	V
2483.580	46.40	2.93	32.09	11.39	54.00	7.60	V
4924.300	27.12	-33.53	34.17	26.48	54.00	26.88	V
7385.800	28.53	-31.45	35.86	24.13	54.00	25.47	V
9848.200	29.97	-30.18	36.99	23.16	54.00	24.03	H
12309.700	32.42	-27.75	38.89	21.28	54.00	21.58	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)
2389.800	46.33	2.87	32.00	11.47	54.00	7.67	V
2389.860	46.36	2.87	32.00	11.49	54.00	7.64	V
4824.400	26.86	-33.24	34.13	25.96	54.00	27.14	H
7236.400	29.23	-30.88	35.80	24.32	54.00	24.77	V
9648.400	29.80	-30.46	36.71	23.54	54.00	24.20	H
12060.400	32.36	-28.70	38.74	22.32	54.00	21.64	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)
2419.080	46.59	2.89	32.03	11.68	54.00	7.41	V
2453.220	46.77	2.91	32.06	11.80	54.00	7.23	V
4873.900	26.87	-33.30	34.15	26.02	54.00	27.13	H
7311.100	29.23	-30.82	35.83	24.22	54.00	24.77	V
9748.300	29.92	-30.33	36.85	23.40	54.00	24.08	H
12184.600	32.66	-28.11	38.81	21.95	54.00	21.34	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	46.53	2.93	32.09	11.51	54.00	7.47	V
2483.580	46.50	2.93	32.09	11.48	54.00	7.50	V
4924.300	27.13	-33.53	34.17	26.49	54.00	26.87	H
7385.800	28.41	-31.45	35.86	24.00	54.00	25.59	V
9848.200	29.95	-30.18	36.99	23.14	54.00	24.05	H
12309.700	32.51	-27.75	38.89	21.37	54.00	21.49	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	46.43	2.87	32.00	11.56	54.00	7.57	V
2389.980	46.42	2.87	32.00	11.56	54.00	7.58	V
4824.400	26.89	-33.24	34.13	26.00	54.00	27.11	H
7236.400	29.14	-30.88	35.80	24.22	54.00	24.86	V
9648.400	29.73	-30.46	36.71	23.48	54.00	24.27	V
12060.400	32.38	-28.70	38.74	22.35	54.00	21.62	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)
2415.720	46.96	2.88	32.02	12.05	54.00	7.04	V
2455.560	47.58	2.91	32.06	12.61	54.00	6.42	V
4873.900	26.75	-33.30	34.15	25.90	54.00	27.25	V
7311.100	29.05	-30.82	35.83	24.04	54.00	24.95	V
9748.300	29.97	-30.33	36.85	23.45	54.00	24.03	V
12184.600	32.82	-28.11	38.81	22.12	54.00	21.18	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)
2483.520	46.76	2.93	32.09	11.75	54.00	7.24	V
2483.580	46.76	2.93	32.09	11.74	54.00	7.24	V
4924.300	27.10	-33.53	34.17	26.46	54.00	26.90	V
7385.800	28.41	-31.45	35.86	24.01	54.00	25.59	V
9848.200	29.83	-30.18	36.99	23.02	54.00	24.17	H
12309.700	32.47	-27.75	38.89	21.34	54.00	21.53	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)
2389.320	46.33	2.87	32.00	11.46	54.00	7.67	V
2389.980	46.33	2.87	32.00	11.47	54.00	7.67	V
4844.200	26.69	-33.23	34.14	25.78	54.00	27.31	H
7266.100	29.27	-30.60	35.81	24.06	54.00	24.73	V
9688.000	29.49	-30.37	36.77	23.09	54.00	24.51	V
12109.900	32.28	-28.47	38.77	21.98	54.00	21.72	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)
2409.840	47.09	2.88	32.02	12.19	54.00	6.91	V
2463.000	46.83	2.92	32.07	11.85	54.00	7.17	V
4873.900	26.59	-33.30	34.15	25.74	54.00	27.41	H
7311.100	28.88	-30.82	35.83	23.87	54.00	25.12	H
9748.300	29.78	-30.33	36.85	23.26	54.00	24.22	V
12184.600	32.52	-28.11	38.81	21.82	54.00	21.48	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	46.98	2.93	32.09	11.96	54.00	7.02	V
2483.580	46.97	2.93	32.09	11.95	54.00	7.03	V
4903.600	27.23	-33.42	34.16	26.49	54.00	26.77	V
7356.100	29.01	-31.17	35.84	24.34	54.00	24.99	V
9807.700	29.33	-30.33	36.94	22.72	54.00	24.67	V
12260.200	32.04	-27.88	38.86	21.06	54.00	21.96	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)
2389.920	46.46	2.9	32.0	11.60	54.0	7.5	V
2389.980	46.44	2.9	32.0	11.58	54.0	7.6	V
4824.400	26.71	-33.2	34.1	25.81	54.0	27.3	H
7236.400	29.17	-30.9	35.8	24.25	54.0	24.8	H
9648.400	29.64	-30.5	36.7	23.38	54.0	24.4	H
12060.400	32.30	-28.7	38.7	22.26	54.0	21.7	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)
2419.080	47.25	2.9	32.0	12.34	54.0	6.7	V
2456.520	47.12	2.9	32.1	12.14	54.0	6.9	V
4873.900	26.78	-33.3	34.2	25.93	54.0	27.2	H
7311.100	29.00	-30.8	35.8	23.99	54.0	25.0	H
9748.300	29.77	-30.3	36.9	23.25	54.0	24.2	V
12184.600	32.65	-28.1	38.8	21.94	54.0	21.4	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	46.53	2.9	32.1	11.51	54.0	7.5	V
2483.580	46.50	2.9	32.1	11.48	54.0	7.5	V
4924.300	27.06	-33.5	34.2	26.42	54.0	26.9	V
7385.800	28.27	-31.5	35.9	23.86	54.0	25.7	H
9848.200	29.94	-30.2	37.0	23.12	54.0	24.1	H
12309.700	32.39	-27.8	38.9	21.26	54.0	21.6	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)
2389.680	46.38	2.9	32.0	11.52	54.0	7.6	V
2389.920	46.37	2.9	32.0	11.50	54.0	7.6	V
4844.200	26.51	-33.2	34.1	25.60	54.0	27.5	V
7266.100	29.17	-30.6	35.8	23.96	54.0	24.8	H
9688.000	29.48	-30.4	36.8	23.08	54.0	24.5	H
12109.900	32.18	-28.5	38.8	21.88	54.0	21.8	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)
2406.360	46.97	2.9	32.0	12.07	54.0	7.0	V
2467.320	46.93	2.9	32.1	11.94	54.0	7.1	V
4873.900	26.47	-33.3	34.2	25.61	54.0	27.5	V
7311.100	28.86	-30.8	35.8	23.85	54.0	25.1	H
9748.300	29.74	-30.3	36.9	23.21	54.0	24.3	H
12184.600	32.48	-28.1	38.8	21.78	54.0	21.5	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)
2483.520	46.97	2.9	32.1	11.95	54.0	7.0	V
2483.580	46.95	2.9	32.1	11.93	54.0	7.1	V
4903.600	27.04	-33.4	34.2	26.30	54.0	27.0	V
7356.100	28.78	-31.2	35.8	24.11	54.0	25.2	V
9807.700	29.28	-30.3	36.9	22.67	54.0	24.7	H
12260.200	32.02	-27.9	38.9	21.04	54.0	22.0	H

Conclusion: Pass

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

SPEED

Measurement results

Peak

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)
2372.608	60.36	2.85	31.98	25.52	74.00	13.64	V
2380.644	60.32	2.86	31.99	25.47	74.00	13.68	V
4824.000	43.40	-33.24	34.13	42.50	74.00	30.60	H
7236.000	42.10	-30.88	35.80	37.19	74.00	31.90	H
9648.000	42.66	-30.46	36.71	36.41	74.00	31.34	H
12060.000	43.91	-28.70	38.74	33.87	74.00	30.09	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)
2367.200	44.98	-34.60	31.98	47.59	74.00	29.02	V
2504.400	44.71	-34.20	32.11	46.80	74.00	29.29	V
4873.500	42.70	-33.30	34.15	41.85	74.00	31.30	V
7311.000	41.82	-30.82	35.83	36.81	74.00	32.18	H
9748.000	41.80	-30.33	36.85	35.28	74.00	32.20	H
12185.000	45.32	-28.11	38.81	34.61	74.00	28.68	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)
2487.225	60.47	2.93	32.09	25.45	74.00	13.53	V
2489.395	60.40	2.94	32.09	25.37	74.00	13.60	V
4923.500	47.65	-33.53	34.17	47.01	74.00	26.35	H
7386.000	40.46	-31.45	35.86	36.06	74.00	33.54	V
9848.000	42.12	-30.18	36.99	35.31	74.00	31.88	H
12310.000	44.91	-27.75	38.89	33.78	74.00	29.09	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)
2367.652	60.17	2.85	31.98	25.34	74.00	13.83	V
2378.544	60.22	2.86	31.99	25.37	74.00	13.78	V
4824.000	38.75	-33.24	34.13	37.86	74.00	35.25	V
7236.000	42.22	-30.88	35.80	37.30	74.00	31.78	H
9648.000	42.35	-30.46	36.71	36.10	74.00	31.65	V
12060.000	44.88	-28.70	38.74	34.85	74.00	29.12	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)
2371.400	43.91	-34.43	31.98	46.36	74.00	30.09	V
2503.800	44.64	-34.19	32.11	46.73	74.00	29.36	V
4874.000	41.66	-33.30	34.15	40.81	74.00	32.34	V
7311.000	40.68	-30.82	35.83	35.67	74.00	33.32	H
9748.000	42.18	-30.33	36.85	35.66	74.00	31.82	V
12185.000	45.61	-28.11	38.81	34.90	74.00	28.39	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)
2483.620	63.64	2.93	32.09	28.62	74.00	10.36	V
2484.080	63.34	2.93	32.09	28.32	74.00	10.66	V
4925.000	44.16	-33.53	34.17	43.53	74.00	29.84	H
7386.000	41.08	-31.45	35.86	36.68	74.00	32.92	V
9848.000	44.81	-30.18	36.99	38.00	74.00	29.19	H
12310.000	44.91	-27.75	38.89	33.78	74.00	29.09	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)
2366.042	59.89	2.85	31.98	25.07	74.00	14.11	V
2377.984	60.01	2.86	31.99	25.16	74.00	13.99	V
4824.000	39.81	-33.24	34.13	38.91	74.00	34.19	V
7236.000	41.90	-30.88	35.80	36.99	74.00	32.10	V
9648.000	42.55	-30.46	36.71	36.30	74.00	31.45	H
12060.000	43.86	-28.70	38.74	33.83	74.00	30.14	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)
2370.000	44.29	-34.49	31.98	46.79	74.00	29.71	V
2543.200	45.24	-34.66	32.18	47.71	74.00	28.76	V
4874.000	39.76	-33.30	34.15	38.91	74.00	34.24	H
7311.000	41.84	-30.82	35.83	36.83	74.00	32.16	V
9748.000	41.77	-30.33	36.85	35.25	74.00	32.23	H
12185.000	45.97	-28.11	38.81	35.26	74.00	28.03	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)
2483.805	63.94	2.93	32.09	28.93	74.00	10.06	V
2485.095	65.51	2.93	32.09	30.49	74.00	8.49	V
4923.500	42.16	-33.53	34.17	41.51	74.00	31.84	H
7386.000	40.85	-31.45	35.86	36.45	74.00	33.15	H
9848.000	42.20	-30.18	36.99	35.38	74.00	31.80	V
12310.000	44.03	-27.75	38.89	32.90	74.00	29.97	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)
2387.966	63.87	2.86	32.00	29.01	74.00	10.13	V
2389.170	64.08	2.87	32.00	29.22	74.00	9.92	V
4844.000	39.30	-33.23	34.14	38.40	74.00	34.70	V
7266.000	42.28	-30.60	35.81	37.07	74.00	31.72	V
9688.000	42.66	-30.37	36.77	36.26	74.00	31.34	H
12110.000	45.85	-28.47	38.77	35.55	74.00	28.15	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)
2366.400	44.26	-34.63	31.98	46.91	74.00	29.74	V
2524.400	45.15	-34.41	32.15	47.40	74.00	28.85	V
4874.000	40.03	-33.30	34.15	39.18	74.00	33.97	H
7311.000	40.41	-30.82	35.83	35.40	74.00	33.59	V
9748.000	42.76	-30.33	36.85	36.24	74.00	31.24	V
12185.000	45.64	-28.11	38.81	34.94	74.00	28.36	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	63.02	2.93	32.09	28.00	74.00	10.98	V
2486.795	63.62	2.93	32.09	28.60	74.00	10.38	V
4904.000	39.28	-33.42	34.16	38.54	74.00	34.72	V
7356.000	42.46	-31.17	35.84	37.79	74.00	31.54	V
9808.000	41.70	-30.32	36.94	35.09	74.00	32.30	H
12260.000	44.84	-27.88	38.86	33.86	74.00	29.16	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)
2347.940	60.16	2.8	32.0	25.37	74.0	13.8	V
2370.256	60.40	2.9	32.0	25.57	74.0	13.6	V
4824.000	38.72	-33.2	34.1	37.83	74.0	35.3	H
7236.000	42.24	-30.9	35.8	37.33	74.0	31.8	H
9648.000	41.52	-30.5	36.7	35.27	74.0	32.5	V
12060.000	44.39	-28.7	38.7	34.36	74.0	29.6	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)
2365.600	44.09	-34.7	32.0	46.78	74.0	29.9	V
2508.000	45.50	-34.2	32.1	47.62	74.0	28.5	V
4874.000	41.77	-33.3	34.2	40.92	74.0	32.2	H
7311.000	41.69	-30.8	35.8	36.68	74.0	32.3	H
9748.000	41.37	-30.3	36.9	34.85	74.0	32.6	H
12185.000	45.33	-28.1	38.8	34.63	74.0	28.7	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)
2483.655	64.84	2.9	32.1	29.82	74.0	9.2	V
2484.135	64.23	2.9	32.1	29.21	74.0	9.8	V
4924.000	41.19	-33.5	34.2	40.55	74.0	32.8	V
7386.000	41.57	-31.5	35.9	37.16	74.0	32.4	V
9848.000	42.68	-30.2	37.0	35.86	74.0	31.3	V
12310.000	45.05	-27.8	38.9	33.91	74.0	29.0	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)
2387.966	63.87	2.9	32.0	29.01	74.0	10.1	V
2389.170	64.09	2.9	32.0	29.22	74.0	9.9	V
4844.000	39.30	-33.2	34.1	38.40	74.0	34.7	V
7266.000	42.28	-30.6	35.8	37.07	74.0	31.7	V
9688.000	42.66	-30.4	36.8	36.26	74.0	31.3	H
12110.000	45.85	-28.5	38.8	35.55	74.0	28.1	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)
2366.400	44.26	-34.6	32.0	46.91	74.0	29.7	V
2524.400	45.15	-34.4	32.1	47.40	74.0	28.9	V
4874.000	40.03	-33.3	34.2	39.18	74.0	34.0	H
7311.000	40.41	-30.8	35.8	35.40	74.0	33.6	V
9748.000	42.76	-30.3	36.9	36.24	74.0	31.2	V
12185.000	45.64	-28.1	38.8	34.94	74.0	28.4	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	63.02	2.9	32.1	28.00	74.0	11.0	V
2486.795	63.62	2.9	32.1	28.60	74.0	10.4	V
4904.000	39.28	-33.4	34.2	38.54	74.0	34.7	V
7356.000	42.46	-31.2	35.8	37.79	74.0	31.5	V
9808.000	41.70	-30.3	36.9	35.09	74.0	32.3	H
12260.000	44.84	-27.9	38.9	33.86	74.0	29.2	V

Average

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)
2387.100	46.27	2.86	32.00	11.41	54.00	7.73	V
2390.040	46.32	2.87	32.00	11.45	54.00	7.68	V
4824.000	37.43	-33.24	34.13	36.53	54.00	16.57	H
7236.000	30.19	-30.88	35.80	25.27	54.00	23.81	V
9648.000	30.77	-30.46	36.71	24.52	54.00	23.23	V
12060.000	33.37	-28.70	38.74	23.34	54.00	20.63	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)
2423.040	47.05	2.89	32.03	12.14	54.00	6.95	V
2451.420	47.93	2.91	32.06	12.97	54.00	6.07	V
4873.000	34.85	-33.30	34.15	34.00	54.00	19.15	V
7311.000	30.09	-30.82	35.83	25.08	54.00	23.91	H
9748.000	30.88	-30.33	36.85	24.36	54.00	23.12	H
12185.000	33.74	-28.11	38.81	23.04	54.00	20.26	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)
2483.500	46.39	2.93	32.09	11.38	54.00	7.61	V
2486.160	46.47	2.93	32.09	11.45	54.00	7.53	V
4923.000	42.93	-33.52	34.17	42.28	54.00	11.07	V
7386.000	29.59	-31.45	35.86	25.19	54.00	24.41	V
9848.000	31.05	-30.18	36.99	24.24	54.00	22.95	H
12310.000	33.39	-27.75	38.89	22.25	54.00	20.61	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)
2387.820	46.30	2.86	32.00	11.44	54.00	7.70	V
2390.000	46.35	2.87	32.00	11.49	54.00	7.65	V
4824.000	28.53	-33.24	34.13	27.64	54.00	25.47	V
7236.000	30.21	-30.88	35.80	25.30	54.00	23.79	V
9648.000	30.87	-30.46	36.71	24.62	54.00	23.13	V
12060.000	33.32	-28.70	38.74	23.28	54.00	20.68	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)
2420.760	46.89	2.89	32.03	11.98	54.00	7.11	V
2454.360	47.03	2.91	32.06	12.06	54.00	6.97	V
4874.000	29.02	-33.30	34.15	28.16	54.00	24.98	V
7311.000	30.18	-30.82	35.83	25.17	54.00	23.82	V
9748.000	30.97	-30.33	36.85	24.45	54.00	23.03	H
12185.000	33.78	-28.11	38.81	23.08	54.00	20.22	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)
2483.500	47.67	2.93	32.09	12.66	54.00	6.33	V
2485.140	47.03	2.93	32.09	12.01	54.00	6.97	V
4922.000	29.97	-33.52	34.17	29.32	54.00	24.03	H
7386.000	29.61	-31.45	35.86	25.21	54.00	24.39	V
9848.000	31.02	-30.18	36.99	24.21	54.00	22.98	V
12310.000	33.35	-27.75	38.89	22.22	54.00	20.65	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)
2387.340	46.33	2.86	32.00	11.46	54.00	7.67	V
2389.980	46.45	2.87	32.00	11.59	54.00	7.55	V
4824.000	28.53	-33.24	34.13	27.64	54.00	25.47	V
7236.000	30.34	-30.88	35.80	25.42	54.00	23.66	H
9648.000	30.93	-30.46	36.71	24.68	54.00	23.07	V
12060.000	33.38	-28.70	38.74	23.35	54.00	20.62	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)
2414.820	47.74	2.88	32.02	12.84	54.00	6.26	V
2455.020	49.38	2.91	32.06	14.40	54.00	4.62	V
4873.000	28.98	-33.30	34.15	28.13	54.00	25.02	V
7311.000	30.26	-30.82	35.83	25.25	54.00	23.74	H
9748.000	31.02	-30.33	36.85	24.50	54.00	22.98	H
12185.000	33.83	-28.11	38.81	23.13	54.00	20.17	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)
2483.520	48.19	2.93	32.09	13.17	54.00	5.81	V
2484.480	47.75	2.93	32.09	12.73	54.00	6.25	V
4922.000	29.75	-33.52	34.17	29.10	54.00	24.25	H
7386.000	29.74	-31.45	35.86	25.34	54.00	24.26	V
9848.000	31.00	-30.18	36.99	24.19	54.00	23.00	H
12310.000	33.40	-27.75	38.89	22.27	54.00	20.60	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)
2388.180	49.18	2.86	32.00	14.32	54.00	4.82	V
2390.000	49.61	2.87	32.00	14.75	54.00	4.39	V
4844.000	28.09	-33.23	34.14	27.18	54.00	25.91	H
7266.000	30.82	-30.60	35.81	25.61	54.00	23.18	V
9688.000	31.02	-30.37	36.77	24.62	54.00	22.98	V
12110.000	33.61	-28.47	38.77	23.31	54.00	20.39	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2399.760	49.34	2.87	32.01	14.46	54.00	4.66	V
2484.960	48.40	2.93	32.09	13.38	54.00	5.60	V
4874.000	28.62	-33.30	34.15	27.77	54.00	25.38	H
7311.000	30.32	-30.82	35.83	25.31	54.00	23.68	H
9748.000	31.22	-30.33	36.85	24.70	54.00	22.78	H
12185.000	33.96	-28.11	38.81	23.25	54.00	20.04	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)
2483.520	48.60	2.93	32.09	13.59	54.00	5.40	V
2484.660	48.55	2.93	32.09	13.53	54.00	5.45	V
4904.000	28.59	-33.42	34.16	27.86	54.00	25.41	V
7356.000	30.45	-31.17	35.84	25.78	54.00	23.55	H
9808.000	30.79	-30.32	36.94	24.17	54.00	23.21	H
12260.000	33.33	-27.88	38.86	22.35	54.00	20.67	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	46.34	2.9	32.0	11.47	54.0	7.7	V
2389.980	46.34	2.9	32.0	11.48	54.0	7.7	V
4824.000	28.49	-33.2	34.1	27.60	54.0	25.5	H
7236.000	30.36	-30.9	35.8	25.45	54.0	23.6	V
9648.000	31.05	-30.5	36.7	24.80	54.0	23.0	H
12060.000	33.53	-28.7	38.7	23.49	54.0	20.5	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)
2420.340	46.62	2.9	32.0	11.70	54.0	7.4	V
2453.640	46.86	2.9	32.1	11.89	54.0	7.1	V
4874.000	29.04	-33.3	34.2	28.19	54.0	25.0	V
7311.000	30.38	-30.8	35.8	25.37	54.0	23.6	V
9748.000	31.16	-30.3	36.9	24.64	54.0	22.8	H
12185.000	33.92	-28.1	38.8	23.22	54.0	20.1	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	48.87	2.9	32.1	13.85	54.0	5.1	V
2485.080	48.01	2.9	32.1	12.99	54.0	6.0	V
4922.000	29.62	-33.5	34.2	28.97	54.0	24.4	V
7386.000	29.77	-31.5	35.9	25.37	54.0	24.2	V
9848.000	31.24	-30.2	37.0	24.43	54.0	22.8	V
12310.000	33.63	-27.8	38.9	22.50	54.0	20.4	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)
2387.760	47.58	2.9	32.0	12.72	54.0	6.4	V
2389.980	47.79	2.9	32.0	12.93	54.0	6.2	V
4844.000	28.14	-33.2	34.1	27.23	54.0	25.9	V
7266.000	30.86	-30.6	35.8	25.64	54.0	23.1	H
9688.000	30.98	-30.4	36.8	24.58	54.0	23.0	V
12110.000	33.60	-28.5	38.8	23.30	54.0	20.4	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)
2397.900	47.67	2.9	32.0	12.79	54.0	6.3	V
2475.420	48.22	2.9	32.1	13.21	54.0	5.8	V
4874.000	28.64	-33.3	34.2	27.79	54.0	25.4	H
7311.000	30.44	-30.8	35.8	25.43	54.0	23.6	H
9748.000	31.21	-30.3	36.9	24.69	54.0	22.8	H
12185.000	33.93	-28.1	38.8	23.23	54.0	20.1	H

Ch9

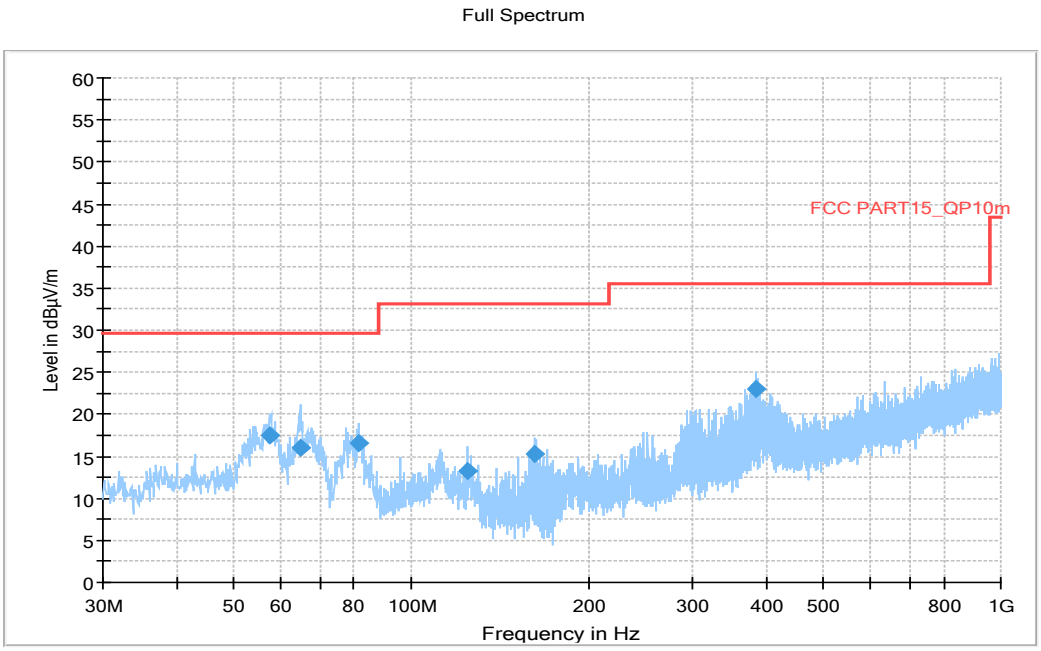
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2483.500	48.56	2.9	32.1	13.54	54.0	5.4	V
2484.840	48.51	2.9	32.1	13.49	54.0	5.5	V
4904.000	28.58	-33.4	34.2	27.85	54.0	25.4	V
7356.000	30.44	-31.2	35.8	25.77	54.0	23.6	V
9808.000	30.90	-30.3	36.9	24.29	54.0	23.1	H
12260.000	33.45	-27.9	38.9	22.47	54.0	20.5	H

Conclusion: Pass

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

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 1GHz



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
57.645	17.44	29.5	12.06	1000	120	101	V	3
65.017	15.95	29.5	13.55	1000	120	101	V	-26
81.507	16.49	29.5	13.01	1000	120	188	V	23
124.769	13.2	33.1	19.9	1000	120	112	V	150
162.502	15.3	33.1	17.8	1000	120	183	V	300
383.856	22.93	35.6	12.67	1000	120	101	V	86

Note: 10 meters' limit is got by converting from 3 meters test distance.
Limit (10m) = limit (3m) + 20(log (3/10))

BELOW 30MHz

There are no emissions found below 30MHz with in 20dB of the limit.

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.B.6.2.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.5	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.B.6.2.7	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.B.6.2.8	P

802.11ax-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.9	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.10	P

802.11ax-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.B.6.2.11	P
	Power(ch9)	2.45GHz ~2.5GHz	Fig.B.6.2.12	P

SPEED

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.5	**P**
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.6	**P**

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.B.6.2.7	**P**
	Power(ch9)	2.45GHz ~2.5GHz	Fig.B.6.2.8	**P**

802.11ax-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.B.6.2.9	**P**
	Power(ch11)	2.45GHz ~2.5GHz	Fig.B.6.2.10	**P**

802.11ax-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.B.6.2.11	**P**
	Power(ch9)	2.45GHz ~2.5GHz	Fig.B.6.2.12	**P**

Conclusion: Pass

Test graphs as below:

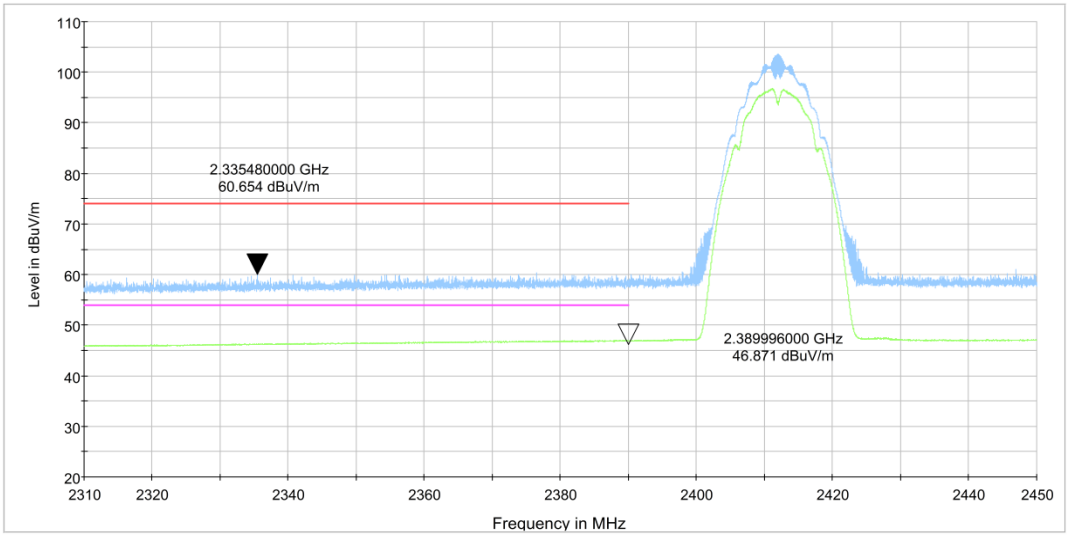


Fig.B.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

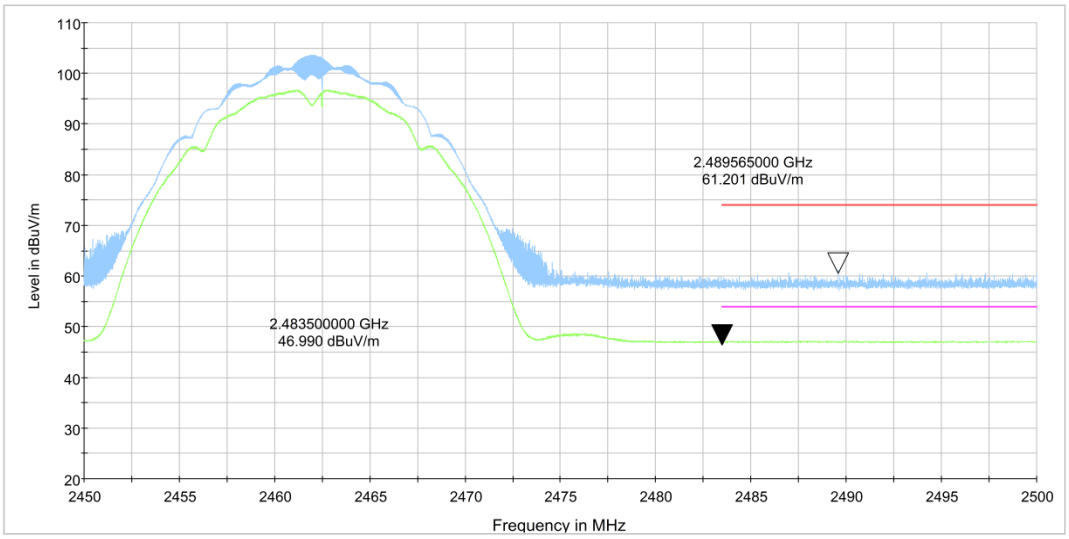


Fig.B.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

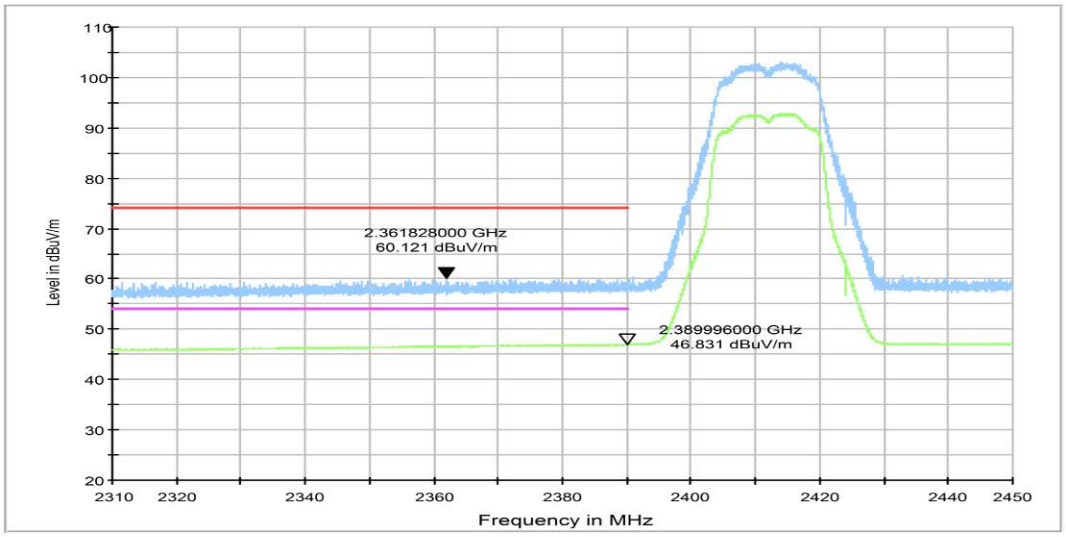


Fig.B.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz

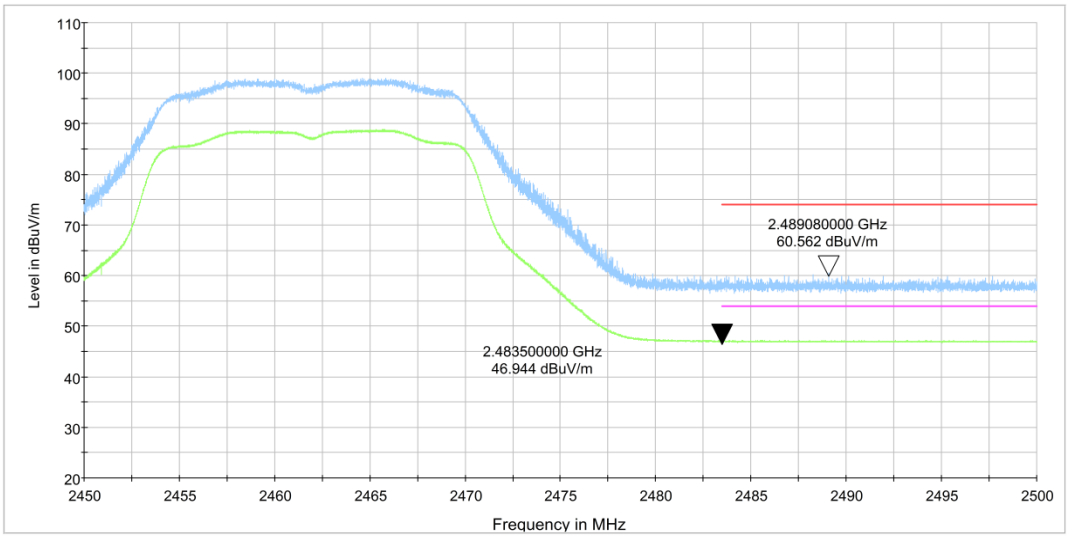


Fig.B.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

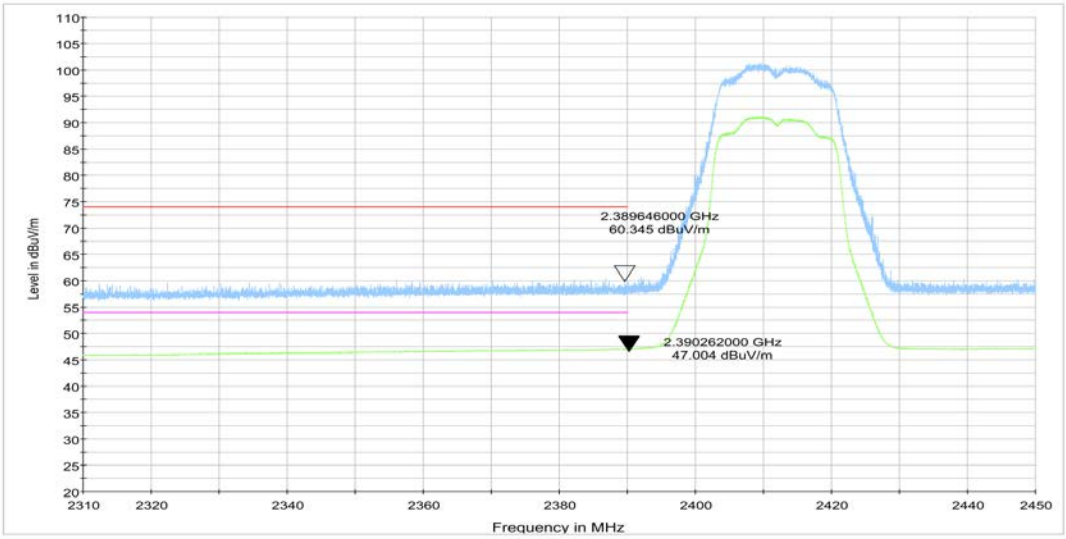


Fig.B.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.45GHz

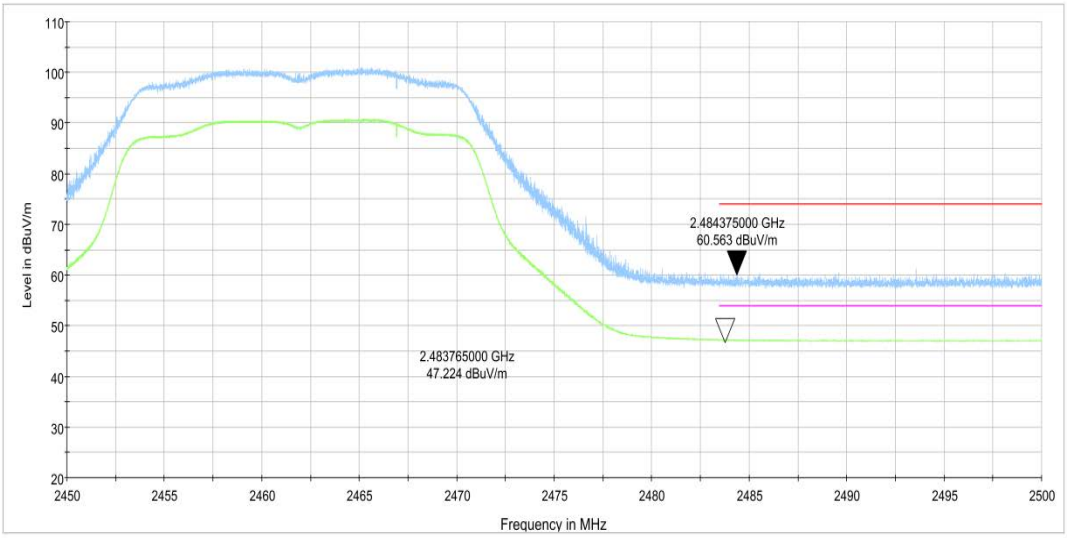


Fig.B.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

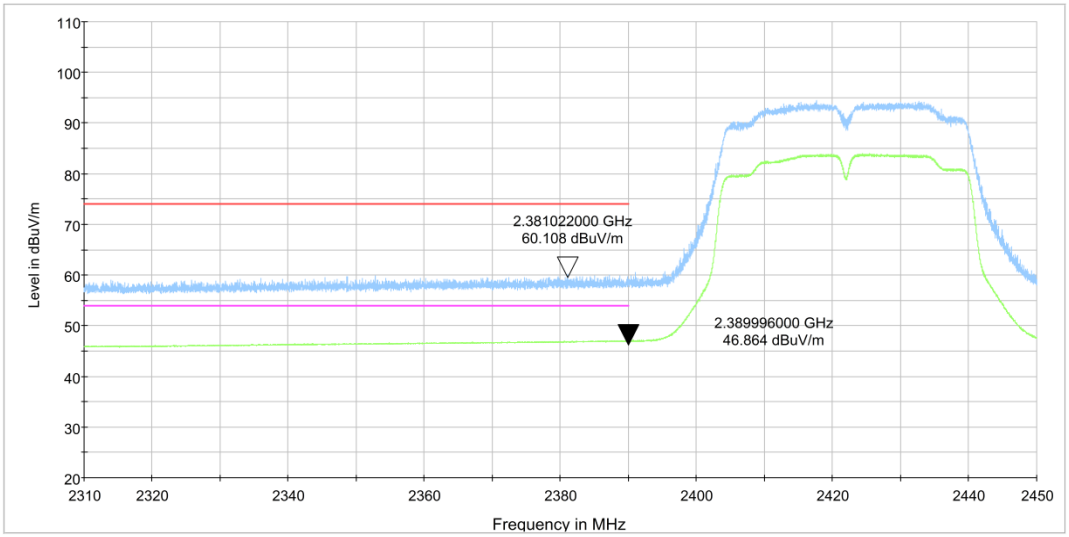


Fig.B.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.45GHz

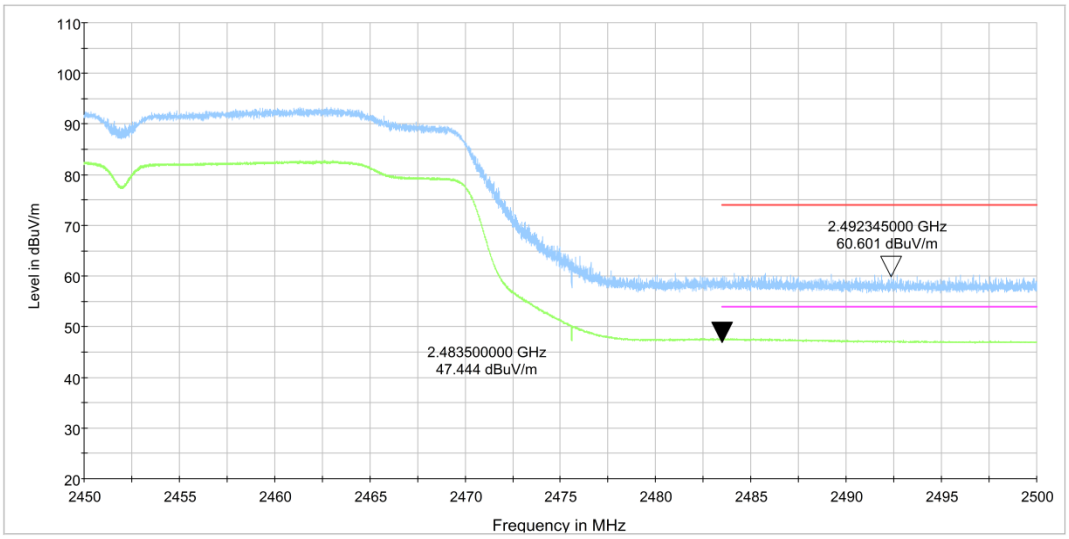


Fig.B.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

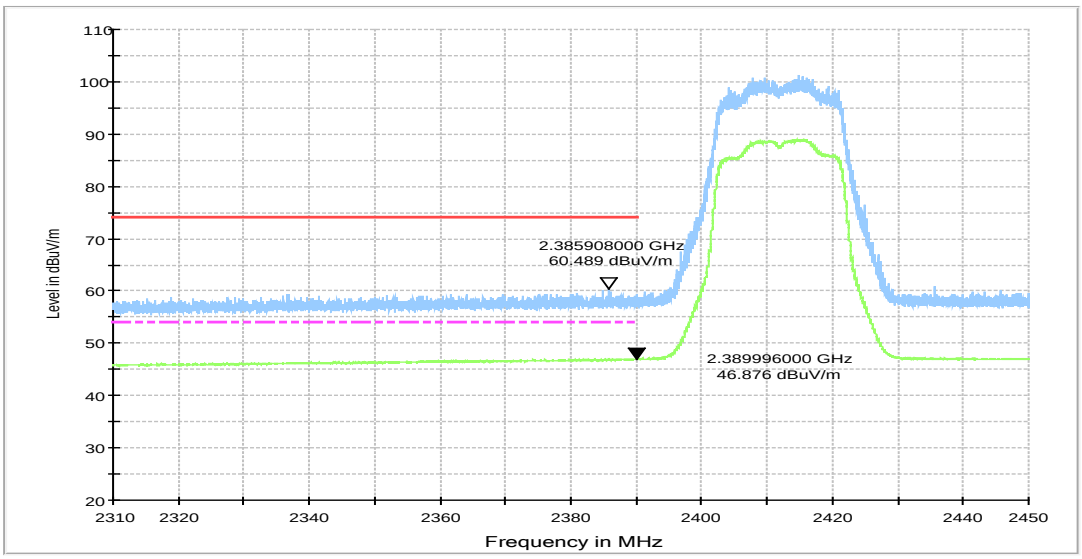


Fig.B.6.2.9 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, 2.31GHz - 2.45GHz

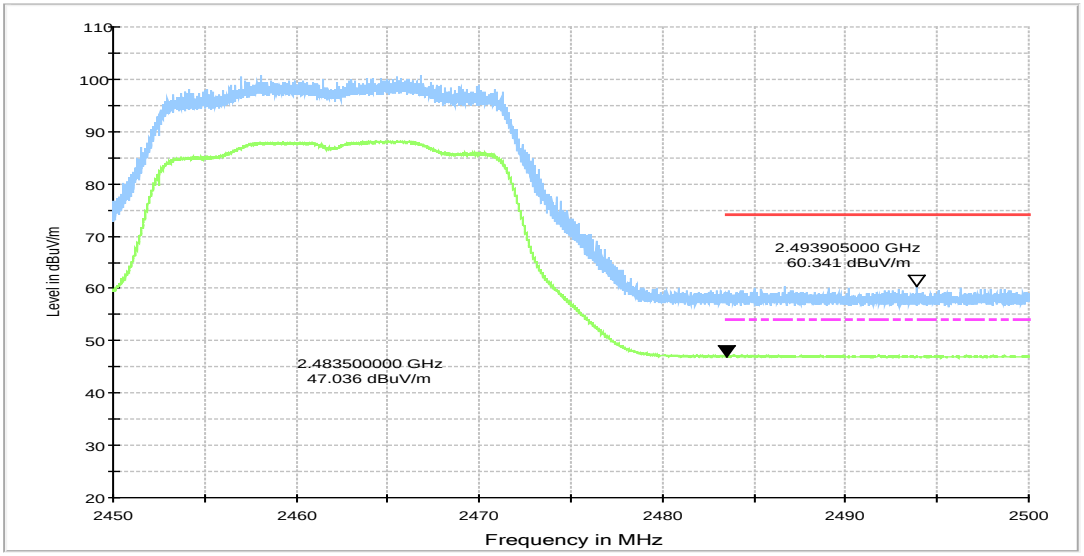


Fig.B.6.2.10 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, 2.45 GHz - 2.50GHz

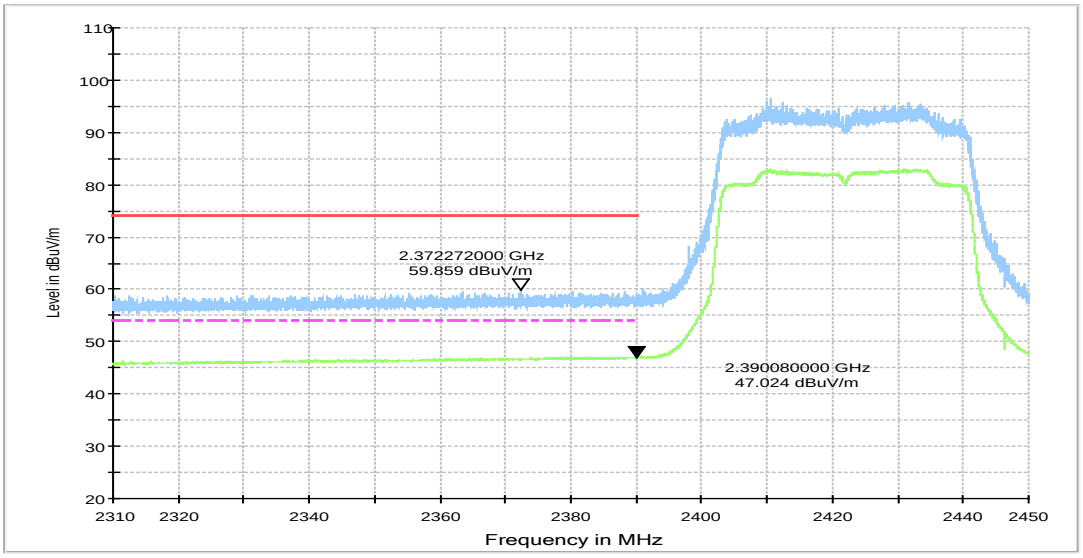


Fig.B.6.2.11 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch3, 2.31GHz - 2.45GHz

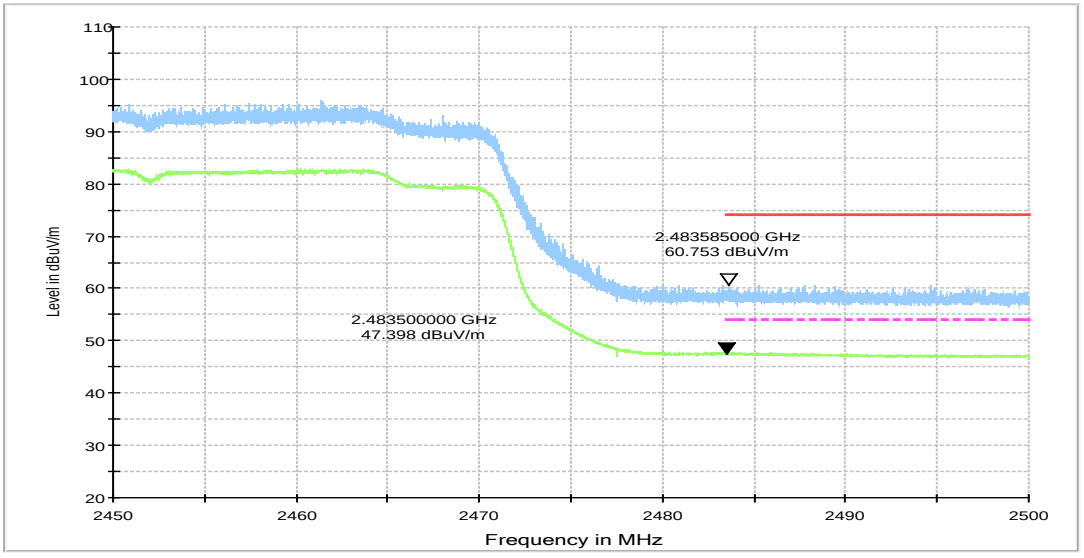


Fig.B.6.2.12 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch9, 2.45 GHz - 2.50GHz

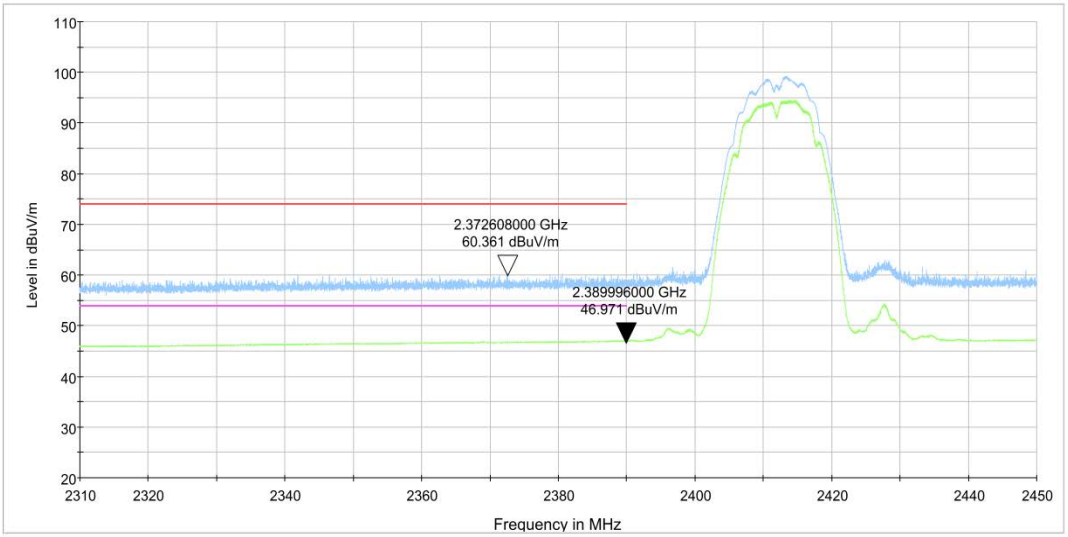


Fig.B.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

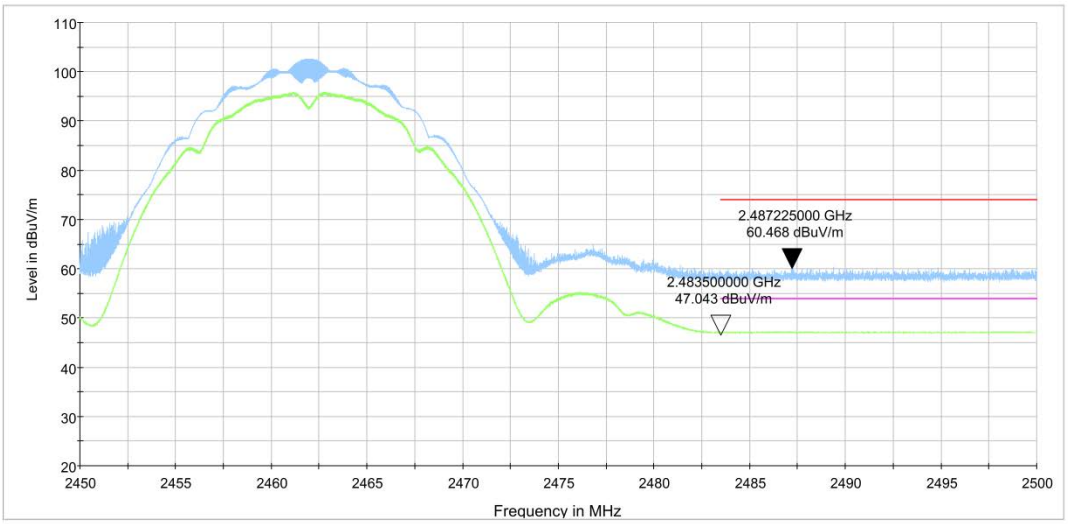


Fig.B.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

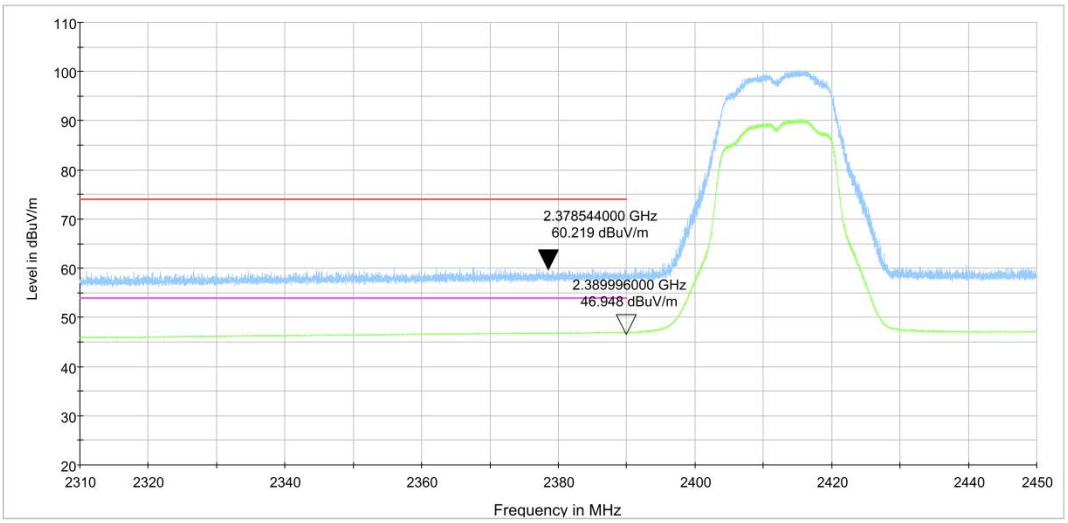


Fig.B.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz

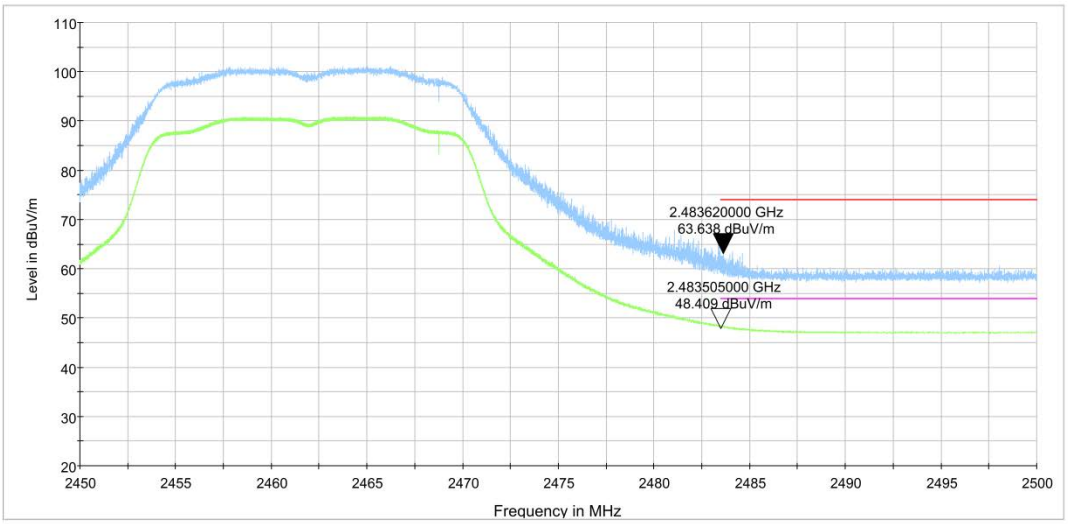


Fig.B.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

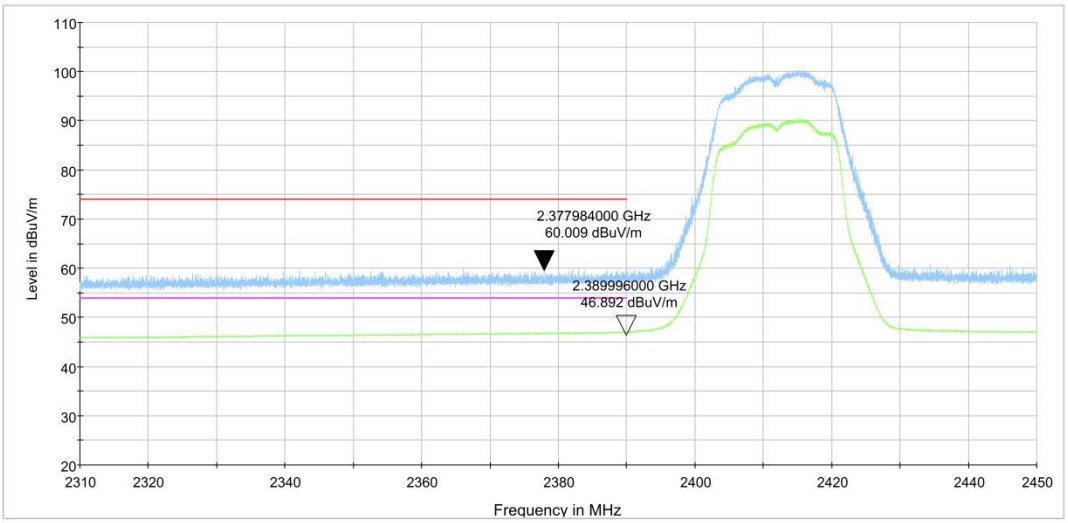


Fig.B.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.45GHz

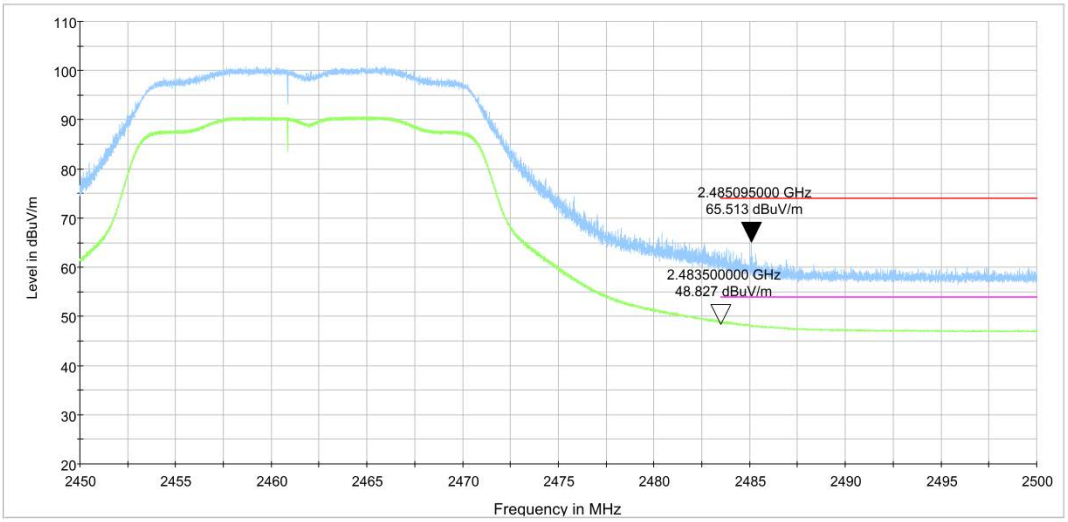


Fig.B.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

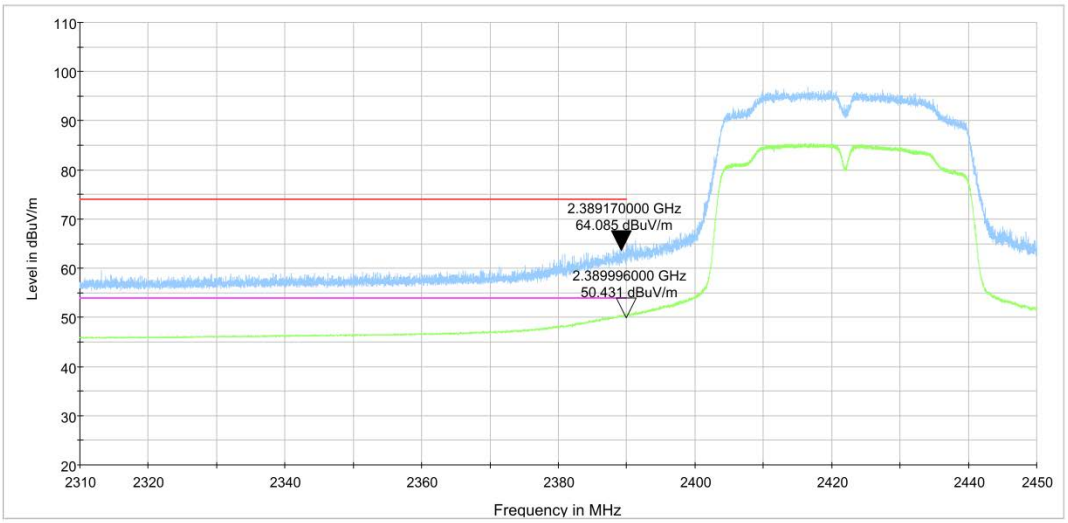
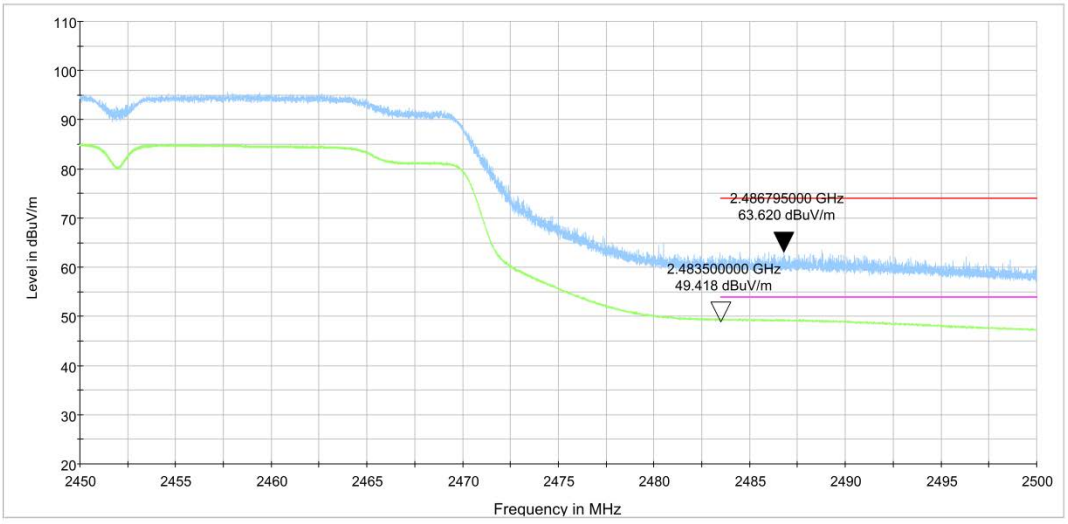


Fig.B.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.45GHz



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

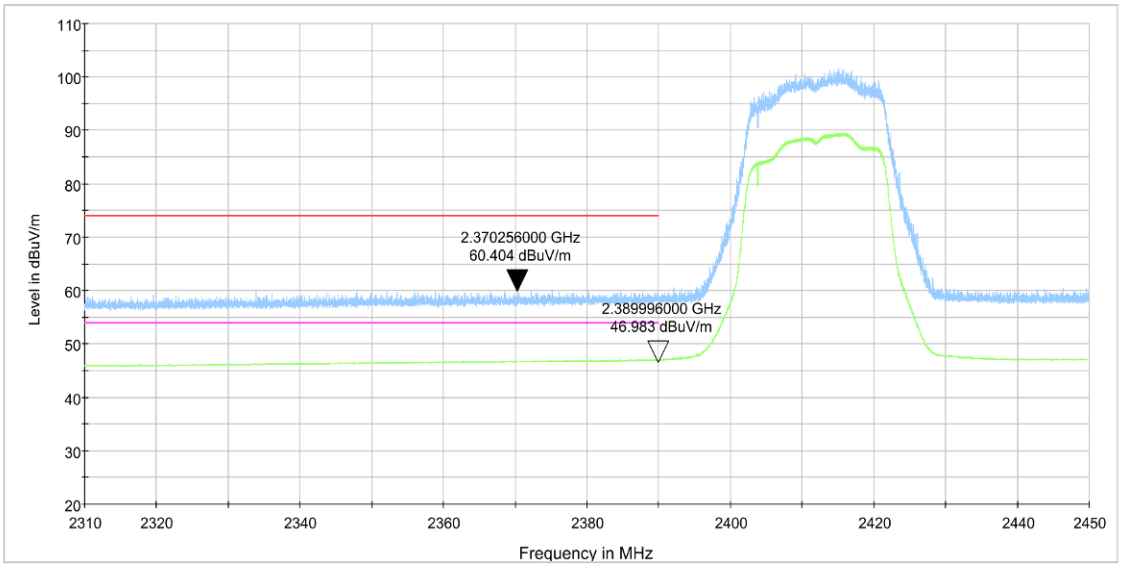


Fig.B.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, 2.31GHz - 2.45GHz

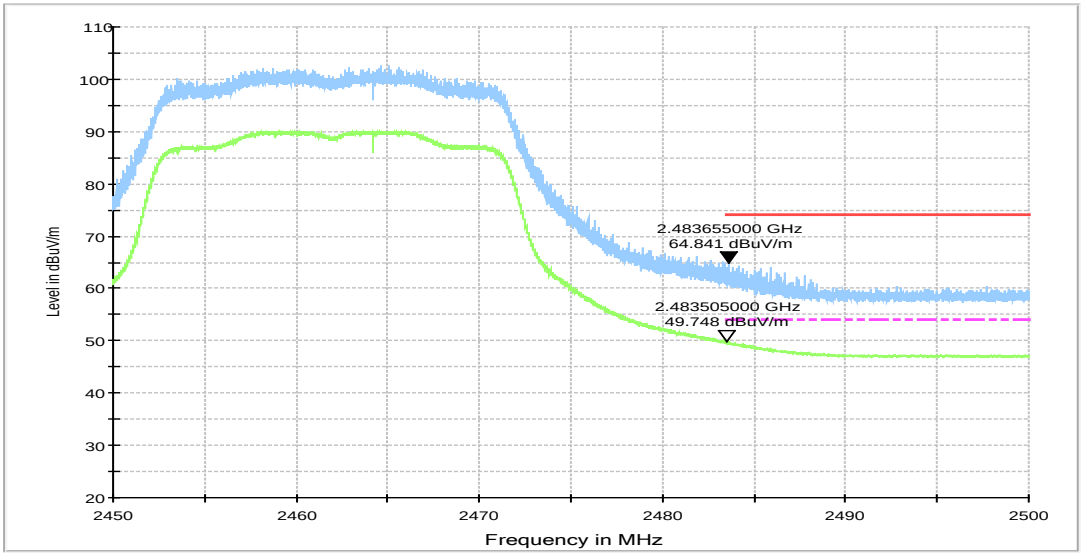


Fig.B.6.2.9 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, 2.45 GHz - 2.50GHz

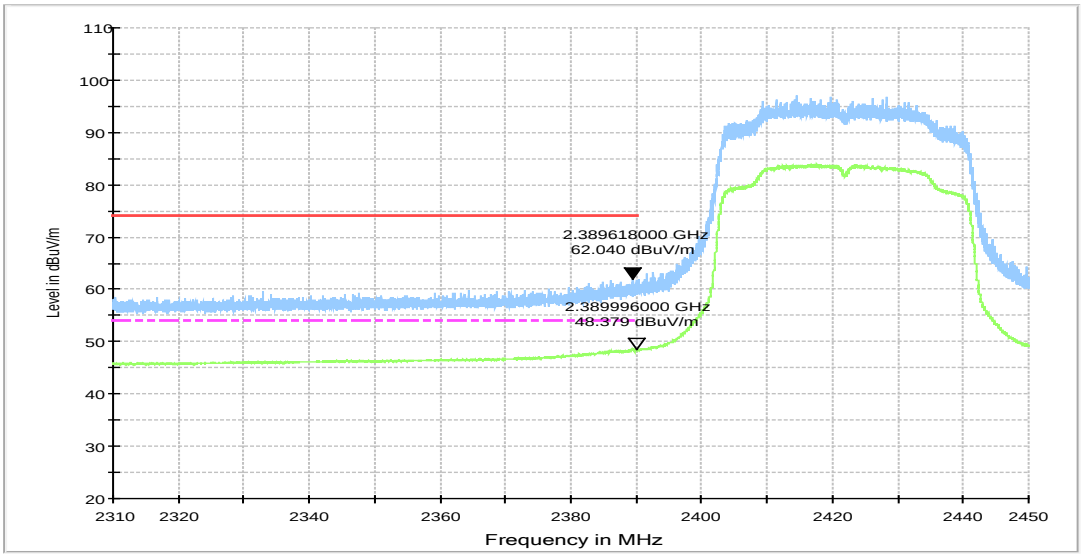


Fig.B.6.2.10 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch3, 2.31GHz - 2.45GHz

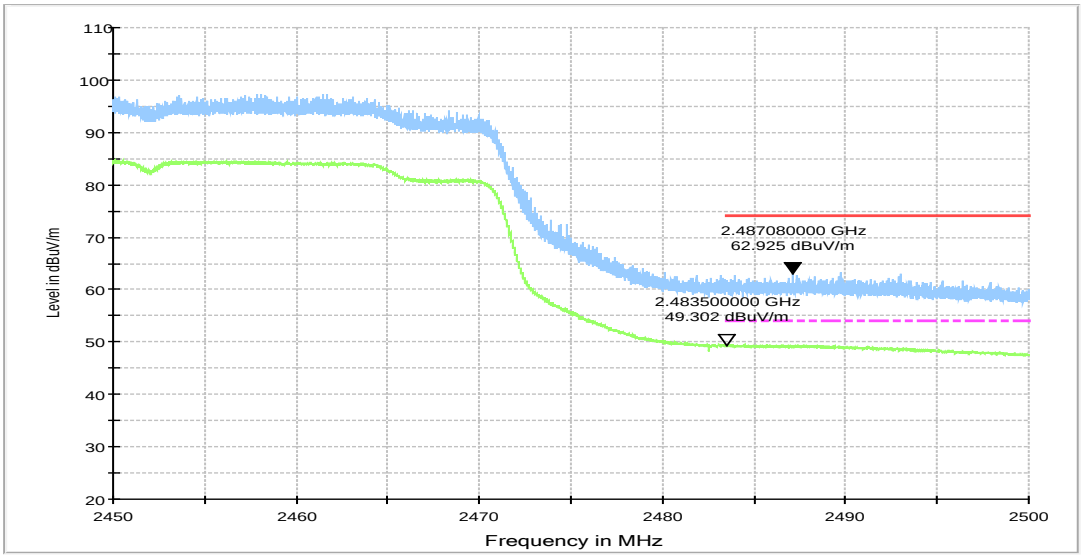


Fig.B.6.2.11 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT40, ch9, 2.45 GHz - 2.50GHz

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:

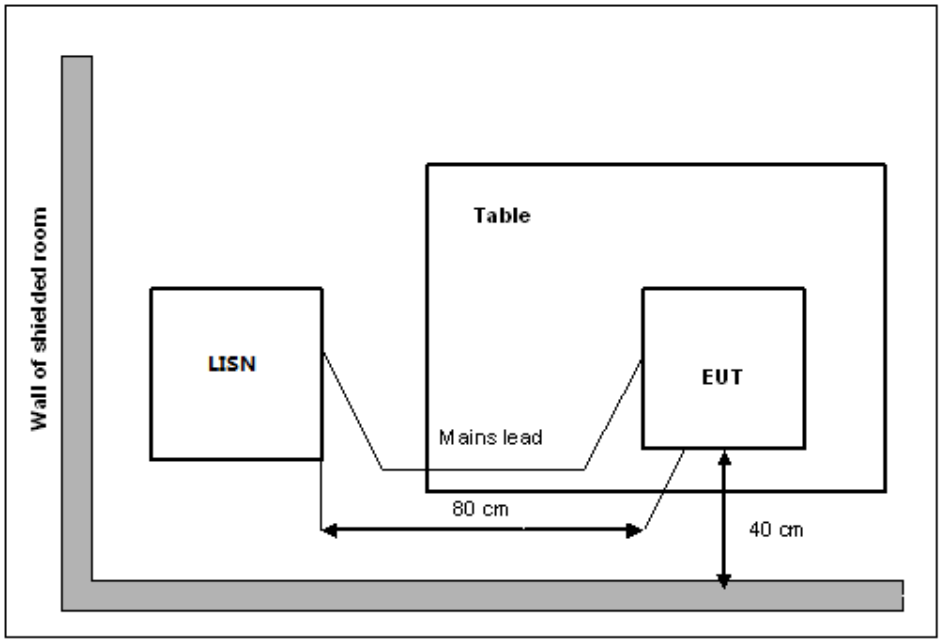
Measurement Bandwidth

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

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:

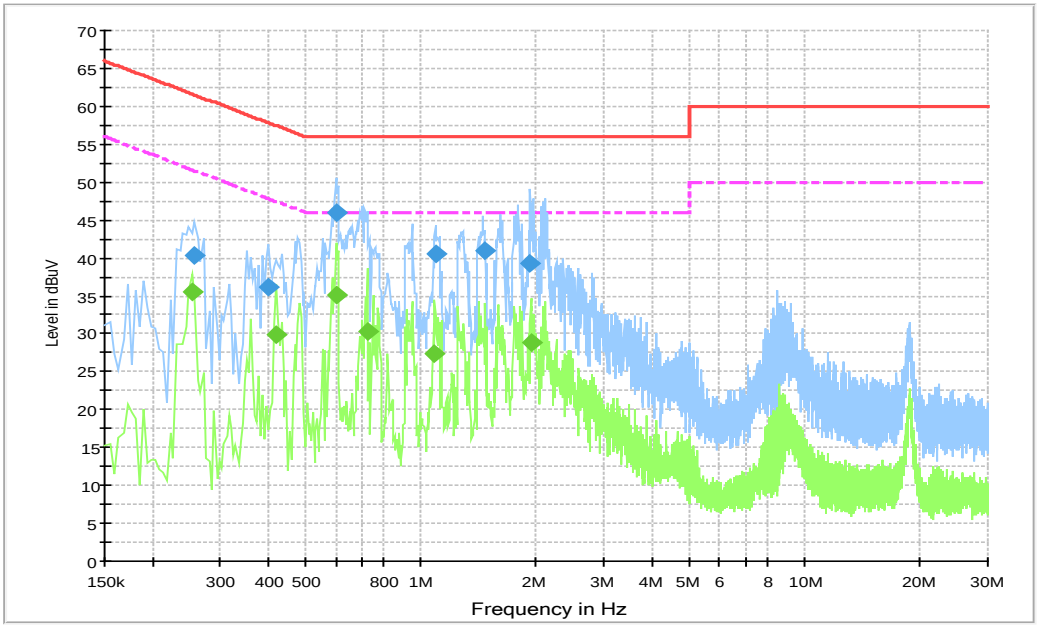


Fig.B.7.1 AC Powerline Conducted Emission-802.11b

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)
0.258000	40.4	1000.	9.000	L1	19.7	21.1	61.5
0.402000	36.1	1000.	9.000	L1	19.8	21.7	57.8
0.600000	45.9	1000.	9.000	L1	19.7	10.1	56.0
1.090500	40.5	1000.	9.000	L1	19.7	15.5	56.0
1.464000	41.0	1000.	9.000	L1	19.6	15.0	56.0
1.927500	39.3	1000.	9.000	L1	19.7	16.7	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.253500	35.4	1000.0	9.000	L1	19.7	16.2	51.6
0.420000	29.9	1000.0	9.000	L1	19.8	17.5	47.4
0.600000	35.1	1000.0	9.000	L1	19.7	10.9	46.0
0.726000	30.3	1000.0	9.000	L1	19.7	15.7	46.0
1.086000	27.3	1000.0	9.000	L1	19.7	18.7	46.0
1.932000	28.8	1000.0	9.000	L1	19.7	17.2	46.0

Idle:

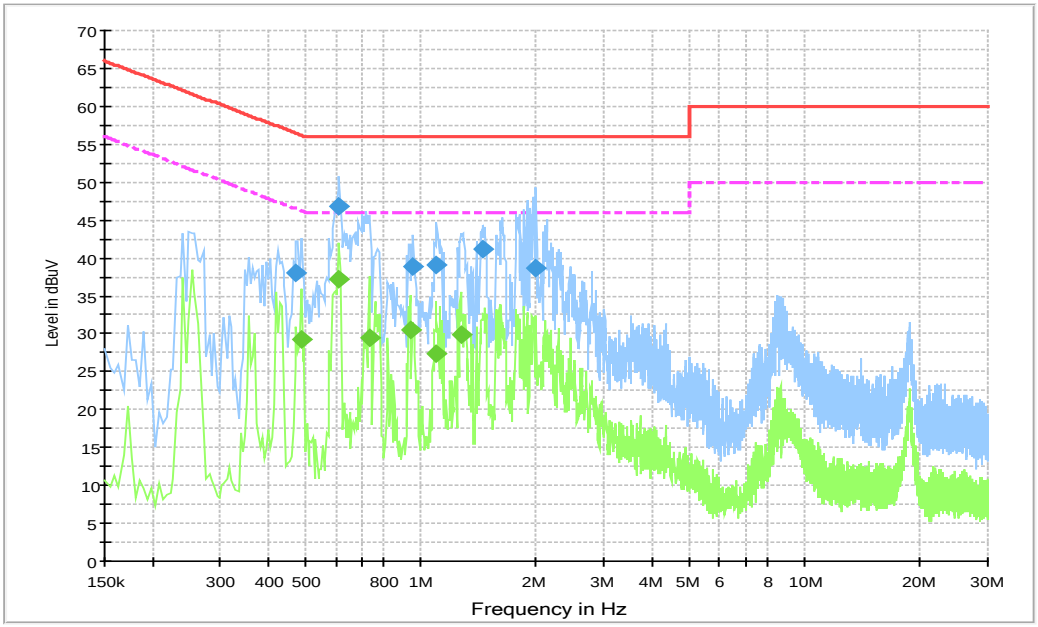


Fig.B.7.2 AC Powerline Conducted Emission-Idle

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)
0.474000	38.0	1000.	9.000	L1	19.8	18.5	56.4
0.613500	46.8	1000.	9.000	L1	19.7	9.2	56.0
0.955500	38.9	1000.	9.000	N	19.7	17.1	56.0
1.095000	39.1	1000.	9.000	L1	19.7	16.9	56.0
1.455000	41.1	1000.	9.000	L1	19.6	14.9	56.0
1.999500	38.6	1000.	9.000	N	19.6	17.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.487500	29.2	1000.0	9.000	L1	19.8	17.1	46.2
0.613500	37.2	1000.0	9.000	L1	19.7	8.8	46.0
0.735000	29.5	1000.0	9.000	L1	19.7	16.5	46.0
0.937500	30.4	1000.0	9.000	N	19.7	15.6	46.0
1.095000	27.3	1000.0	9.000	N	19.7	18.7	46.0
1.270500	29.8	1000.0	9.000	L1	19.7	16.2	46.0

***** END OF REPORT BODY *****