



FCC PART 15C TEST REPORT No.25T04Z100963-007

for

TCL Communication Ltd.

GSM/UMTS/LTE Mobile phone

T452B

FCC ID:2ACCJH192

with

Hardware Version: 05

Software Version: 452BVA58_FCC

Issued Date: 2025-05-13

Note:

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

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: ctl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100963-007	Rev.0	1st edition	2025-05-13

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

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1. Test Laboratory

1.1.Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2.Testing Location

Conducted testing Location:CTTL(Gaolizhang Road)

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

Radiated testing Location:CTTL(huayuan North Road)

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

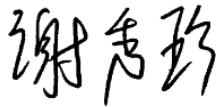
1.3. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

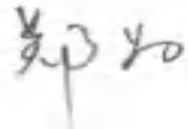
1.4. Project date

Testing Start Date: 2025-04-08
Testing End Date: 2025-04-28

1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	GSM/UMTS/LTE Mobile phone
Model name	T452B
FCC ID	2ACCJH192
With WLAN Function	Yes
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	23.38dBm
Normal Voltage	3.8V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.6V

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT12a	350442530001411/ (25T04Z100690)	05	452AVA25_FCC	2025-04-09
UT11a	350442530001916/ (25T04Z100690)	05	452AVA25_FCC	2025-04-08

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

UT12a is used for Conduction test, UT11a is used for Radiation test.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer
AE1	Battery1	TLi029F9	Guangdong Fenghua New Energy Co., Ltd.
AE2	Battery2	TLi029FB	Shenzhen Aerospace Electronic Co., Ltd.
AE3	Charger1	UT-681A-5100UY	Shenzhen Baijunda Electronic Co., Ltd.
AE4	Charger2	UC11US	Huizhou Juwei Electronics Co., Ltd.
AE5	USB Cable1	FKY-25-047	Qiyang Fukangyuan Electronic Technology Co.,LTD

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

3.4. General Description

The Equipment under Test (EUT) is a model of GSM/UMTS/LTE Mobile phone with integrated antenna and inbuilt battery.

It consists of normal options: travel charger, USB cable.

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

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

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

Measurement Uncertainty

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

4. Reference Documents

4.1. Documents supplied by applicant

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

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C:	2021
	15.205 Restricted bands of operation;	
	15.207 Conducted limits;	
	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: KDB 558074 D01 is not in the scope of ISO/IEC 17025 accreditation by A2LA.

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (b)	/	BR
Peak Power Spectral Density	15.247 (e)	/	BR
DTS 6-dB Signal Bandwidth	15.247 (a)	/	BR
Band Edges Compliance	15.247 (d)	/	BR
Transmitter Spurious Emission - Conducted	15.247 (d)	/	BR
Radiated Unwanted Emission	15.247, 15.205, 15.209	/	BR
AC Powerline Conducted Emission	15.207	/	BR

Please refer to **ANNEX A** 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
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard
BR	Re-use test data from basic model report.

6.2. Statements

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

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

The Equipment Under Test (EUT) model T452B (FCC ID: 2ACCJH192) is a variant product of T452A (FCC ID: 2ACCJH192), according to the declaration of changes provided by the applicant and FCC KDB publication 178919 D01, all results are derived from test report No.25T04Z100690-003.

For detail differences between two models please refer the Declaration of Changes document.

6.3. Test Conditions

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

Temperature	26°C
Voltage	3.8V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2026-05-09
2	Test Receiver	ESCI	100344	R&S	1 year	2026-04-01
3	LISN	ENV216	101200	R&S	1 year	2025-05-16
4	Attenuator	10dB/2W	/	Rosenberger	/	/
5	Shielding Room	S81	/	ETS-Lindgren	/	/
6	Data Acquisition Unit	U2531A	TW54433522	Agilent	/	/
7	Power Sensor	U2021XA	MY54460006	Agilent	1 year	2026-05-09

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	Rohde & Schwarz	1 year	2025-06-06
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-09-11
3	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2025-05-11
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2026-03-03
5	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2026-01-04

8. Measurement Uncertainty

8.1. Maximum Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. DTS 6-dB Signal Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. Transmitter Spurious Emission

Conducted (k=1.96)

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

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

8.6. AC Power-line Conducted Emission

Measurement Uncertainty : 3.08dB,k=2

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

Connect the EUT to the test system as Fig.A.1.1.1 shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer

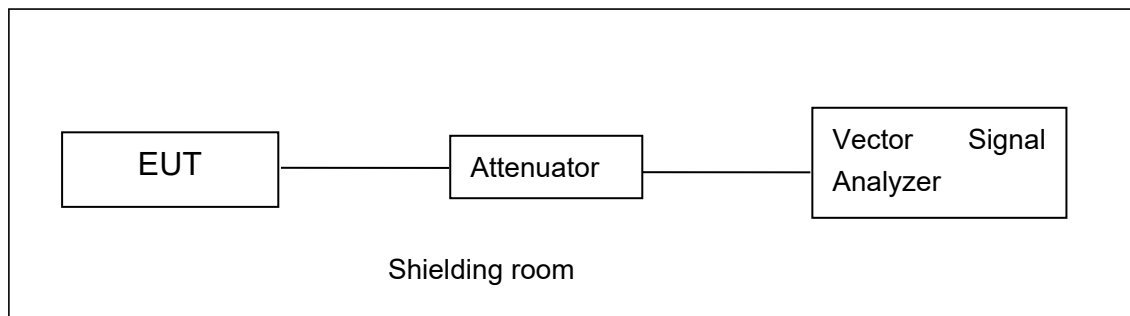


Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements

A.1.2. Radiated Emission Measurements

The measurement is made according to ANSI C63.10

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

A.2. Maximum Output Power

Method of Measurement: See ANSI C63.10-2013-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

Measurement Limit:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

A.2.1 Antenna Gain

Antenna gain is -0.27dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Peak Output Power-conducted

EUT ID: UT12a

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	18.93	18.01	18.98
802.11g	6	22.49	22.98	23.38

The data rate 1Mbps and 6Mbps are selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	22.21	22.32	23.05

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

The duty cycle of all mode are

TestMode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	2412	8.19	8.23	99.51
	2437	8.19	8.23	99.51
	2462	8.19	8.22	99.64
11G	2412	1.36	1.41	96.45
	2437	1.36	1.40	97.14
	2462	1.36	1.40	97.14
11N20SISO	2412	1.27	1.30	97.69
	2437	1.27	1.30	97.69
	2462	1.28	1.31	97.71



Duty cycle

Conclusion: Pass

A.3. Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-2013-clause 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to RBW = 3 kHz.
- d) Set the VBW = 10 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(e)	< 8 dBm/3 kHz

EUT ID: UT12a

Measurement Results:

TestMode	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-7.90	≤8.00	PASS
	2437	-7.73	≤8.00	PASS
	2462	-6.80	≤8.00	PASS
11G	2412	-10.59	≤8.00	PASS
	2437	-12.48	≤8.00	PASS
	2462	-11.47	≤8.00	PASS
11N20SISO	2412	-11.18	≤8.00	PASS
	2437	-12.31	≤8.00	PASS
	2462	-11.90	≤8.00	PASS

Test graphs as below:

11B_2412



11B_2437

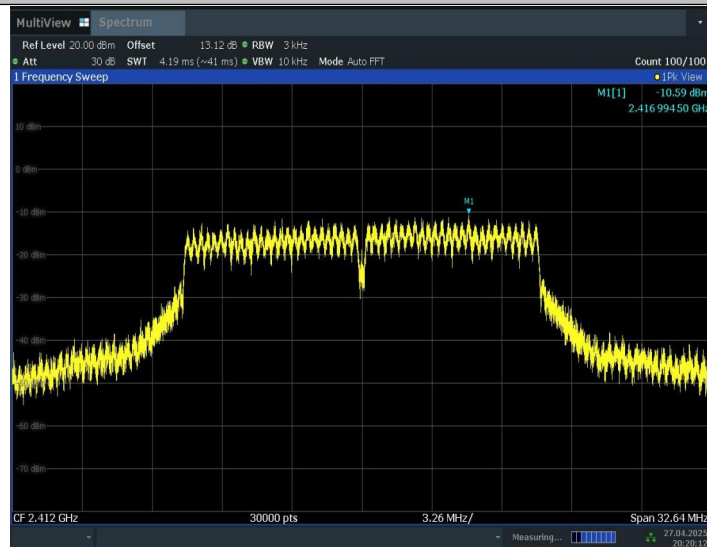


11B_2462



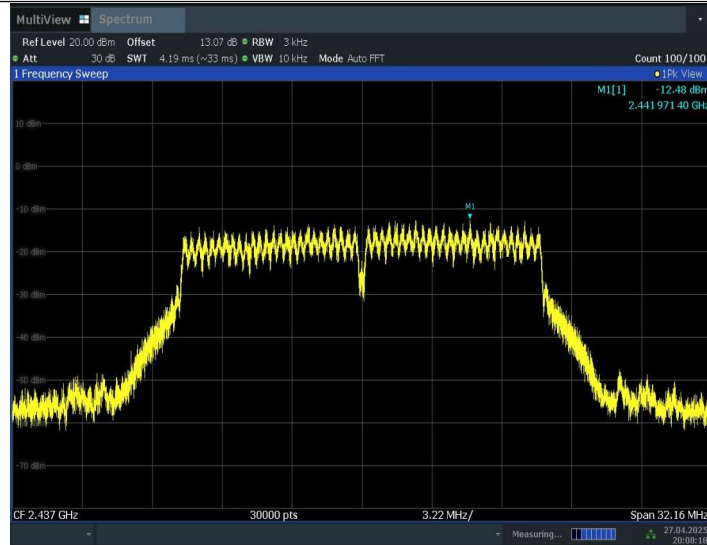
17:58:32 25.04.2025

11G_2412

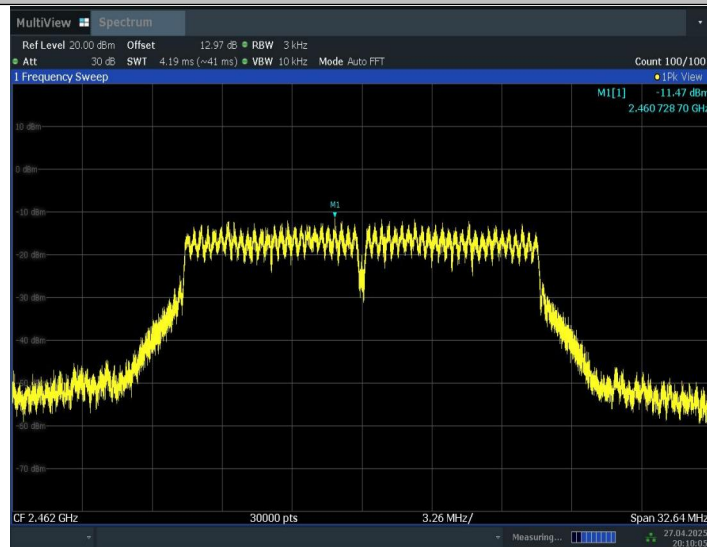


20:20:13 27.04.2025

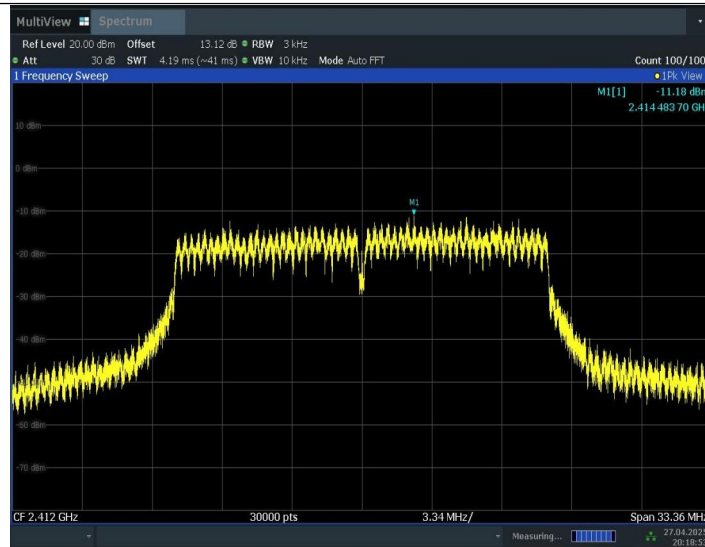
11G_2437



11G_2462

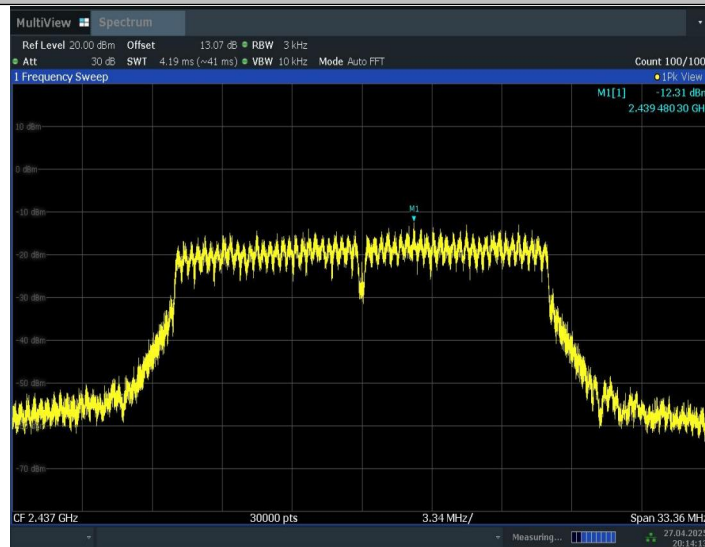


11N20SISO_2412



20:18:53 27.04.2025

11N20SISO_2437



20:14:13 27.04.2025

11N20SISO_2462



Conclusion: Pass

A.4. DTS 6-dB Signal Bandwidth

Method of Measurement: See ANSI C63.10-2013 section 11.8.1.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) = 300 kHz.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

EUT ID: UT12a

Measurement Result:

TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	9.08	2407.44	2416.52	0.5	PASS
	2437	8.60	2432.92	2441.52	0.5	PASS
	2462	8.56	2457.48	2466.04	0.5	PASS
11G	2412	16.32	2403.84	2420.16	0.5	PASS
	2437	16.08	2429.08	2445.16	0.5	PASS
	2462	16.32	2453.80	2470.12	0.5	PASS
11N20SISO	2412	16.68	2404.08	2420.76	0.5	PASS
	2437	16.68	2429.08	2445.76	0.5	PASS
	2462	17.32	2453.20	2470.52	0.5	PASS

Test graphs as below:

11B_2412



17:20:09 25.04.2025

11B_2437



17:22:26 25.04.2025

11B_2462



17:28:16 25.04.2025

11G_2412



20:05:59 27.04.2025

11G_2437



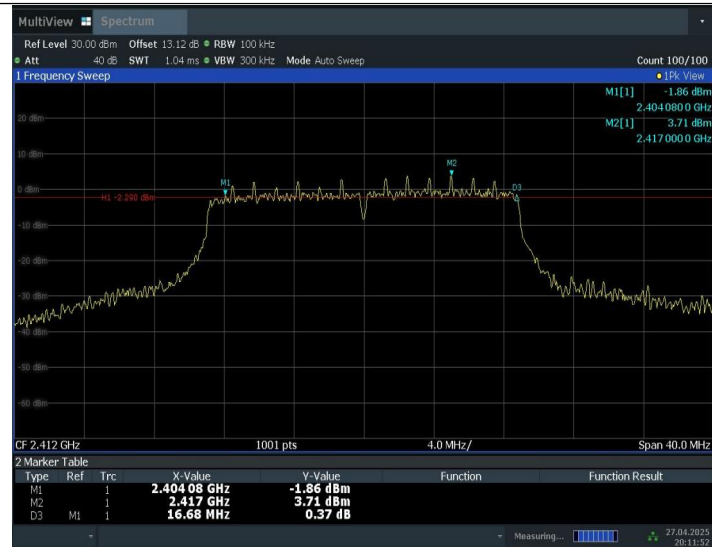
20:07:57 27.04.2025

11G_2462



20:09:45 27.04.2025

11N20SISO_2412



20:11:53 27.04.2025

11N20SISO_2437



20:13:52 27.04.2025

11N20SISO_2462



Conclusion: Pass

A.5. Band Edges Compliance

Method of Measurement: See ANSI C63.10-2013-clause 6.10.4

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

- Set Span = 100MHz
- Sweep Time: coupled
- Set the RBW= 100 kHz
- Set the VBW= 300 kHz
- Detector: Peak
- Trace: Max hold

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

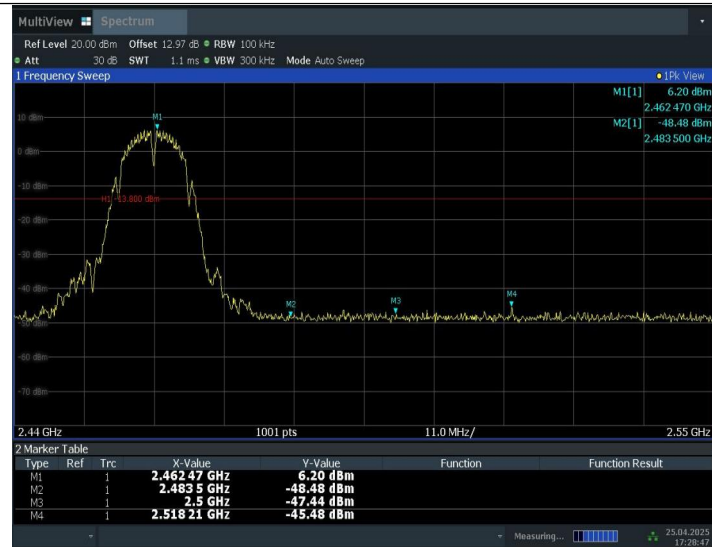
EUT ID: UT12a

Measurement Result:

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	6.80	-32.68	≤-13.2	PASS
	High	2462	6.20	-45.48	≤-13.8	PASS
11G	Low	2412	4.76	-24.52	≤-15.24	PASS
	High	2462	4.08	-38.55	≤-15.92	PASS
11N20SISO	Low	2412	3.68	-27.43	≤-16.32	PASS
	High	2462	3.41	-40.13	≤-16.59	PASS

Test graphs as below:





17:28:48 25.04.2025

11G_Low_2412



20:06:30 27.04.2025

11G_High_2462



20:10:16 27.04.2025

11N20SISO_Low_2412



20:12:24 27.04.2025

11N20SISO_High_2462



Conclusion: Pass

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission – Conducted

Method of Measurement: See ANSI C63.10-2013-clause 11.11

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency
- Set the span to ≥ 1.5 times the DTS bandwidth
- Set the RBW= 100 kHz
- Set the VBW= 300 kHz
- Detector = Peak
- Sweep time = auto couple
- Trace mode = max hold
- Allow trace to fully stabilize
- Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW = 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

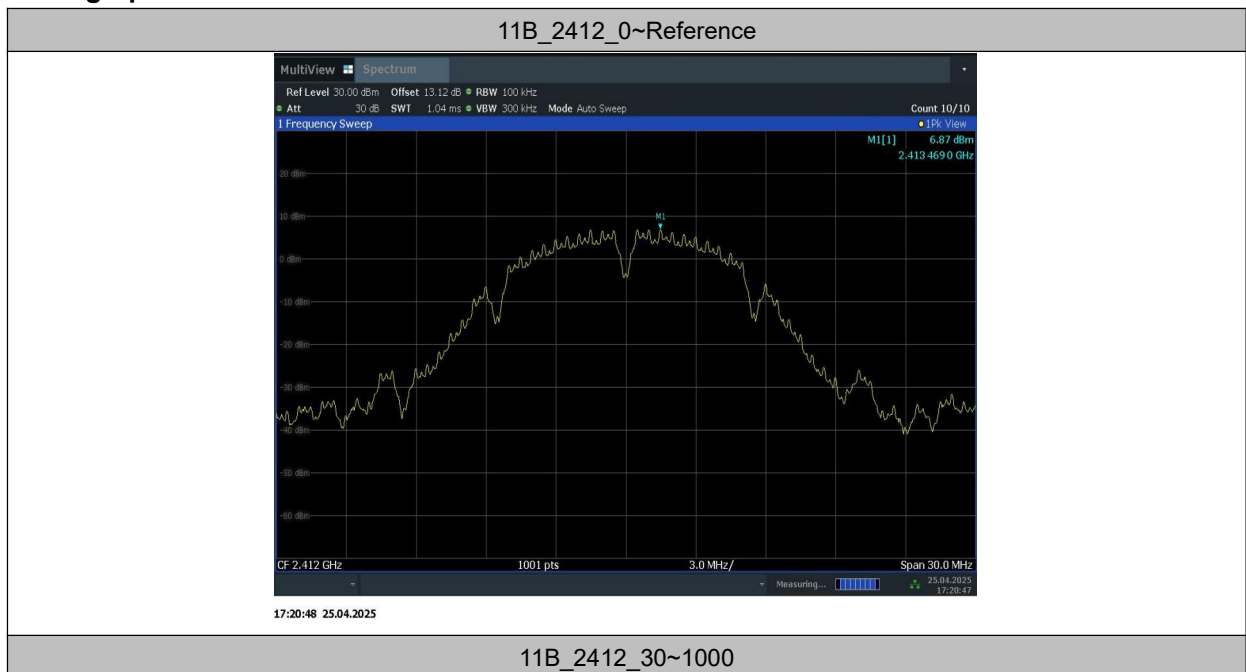
EUT ID: UT12a

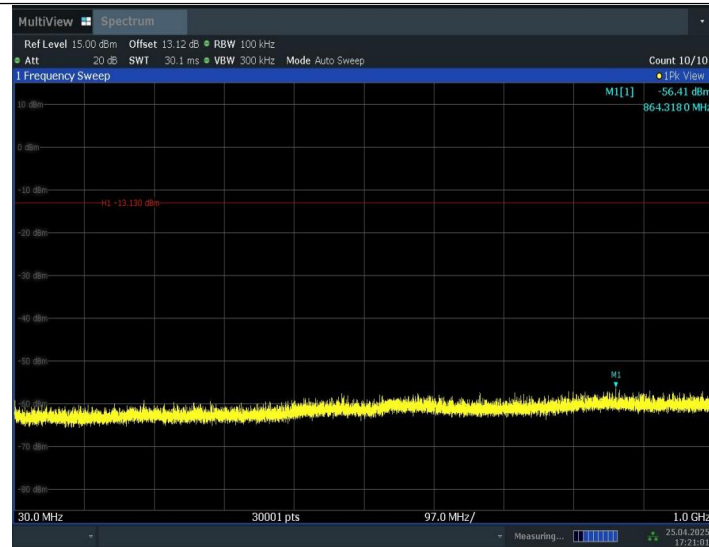
Measurement Results:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	6.87	6.87	---	PASS
		30~1000	6.87	-56.41	≤ -13.13	PASS
		1000~26500	6.87	-43.57	≤ -13.13	PASS
	2437	Reference	4.98	4.98	---	PASS
		30~1000	4.98	-56.3	≤ -15.02	PASS

	2462	1000~26500	4.98	-43.5	≤-15.02	PASS	
		Reference	6.56	6.56	---	PASS	
		30~1000	6.56	-56.5	≤-13.44	PASS	
		1000~26500	6.56	-43.66	≤-13.44	PASS	
11G	2412	Reference	4.64	4.64	---	PASS	
		30~1000	4.64	-56.14	≤-15.36	PASS	
		1000~26500	4.64	-43.48	≤-15.36	PASS	
	2437	Reference	3.23	3.23	---	PASS	
		30~1000	3.23	-56.82	≤-16.77	PASS	
		1000~26500	3.23	-43.5	≤-16.77	PASS	
	2462	Reference	4.09	4.09	---	PASS	
		30~1000	4.09	-56.86	≤-15.91	PASS	
		1000~26500	4.09	-43.65	≤-15.91	PASS	
	11N20SISO	2412	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-56.45	≤-16.41	PASS
			1000~26500	3.59	-44.01	≤-16.41	PASS
2437		Reference	2.35	2.35	---	PASS	
		30~1000	2.35	-56.59	≤-17.65	PASS	
		1000~26500	2.35	-44.08	≤-17.65	PASS	
2462		Reference	3.17	3.17	---	PASS	
		30~1000	3.17	-55.83	≤-16.83	PASS	
		1000~26500	3.17	-44.17	≤-16.83	PASS	

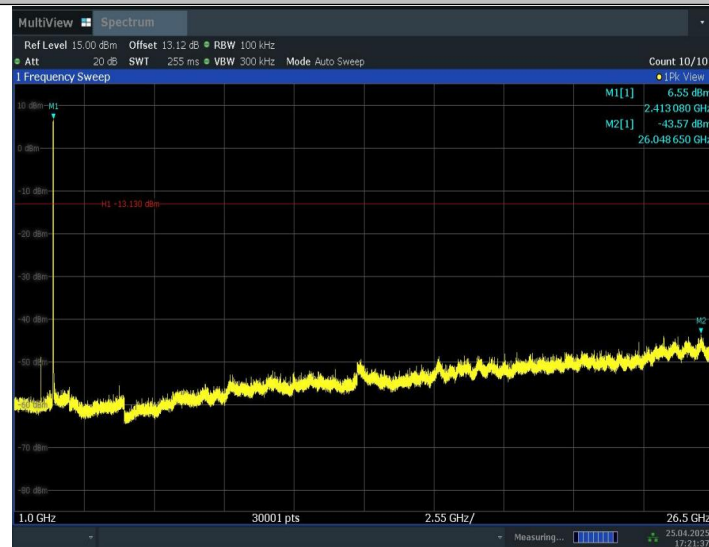
Test graphs as below:





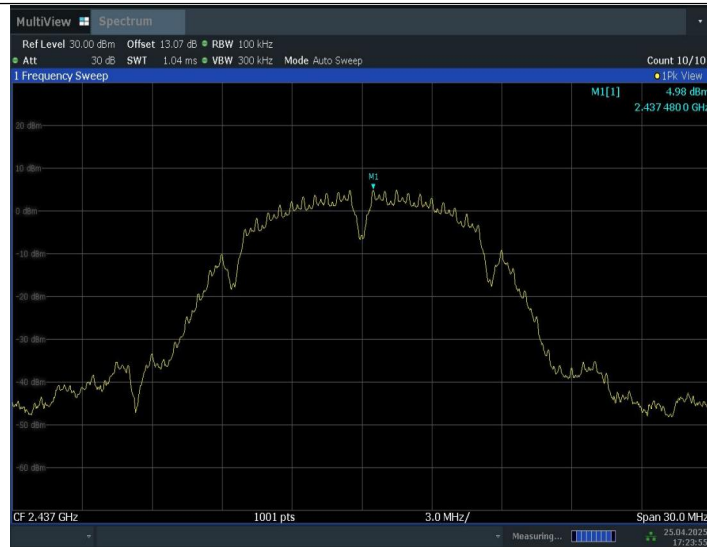
17:21:01 25.04.2025

11B_2412_1000~26500



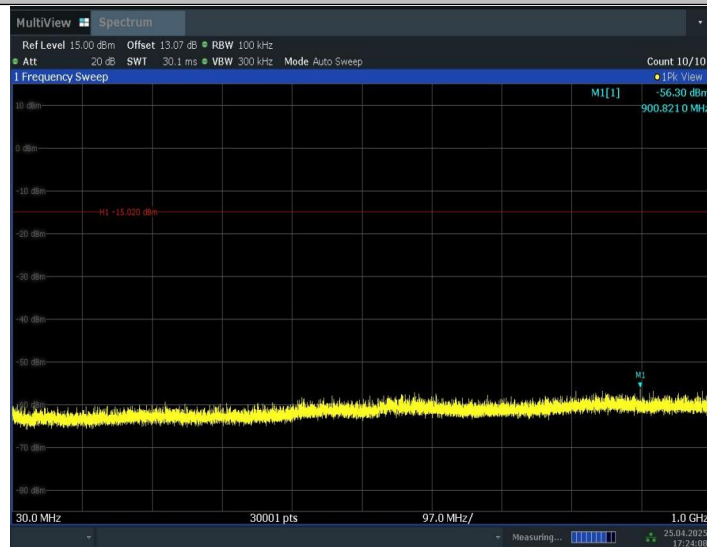
17:21:38 25.04.2025

11B_2437_0~Reference



17:23:56 25.04.2025

11B_2437_30~1000



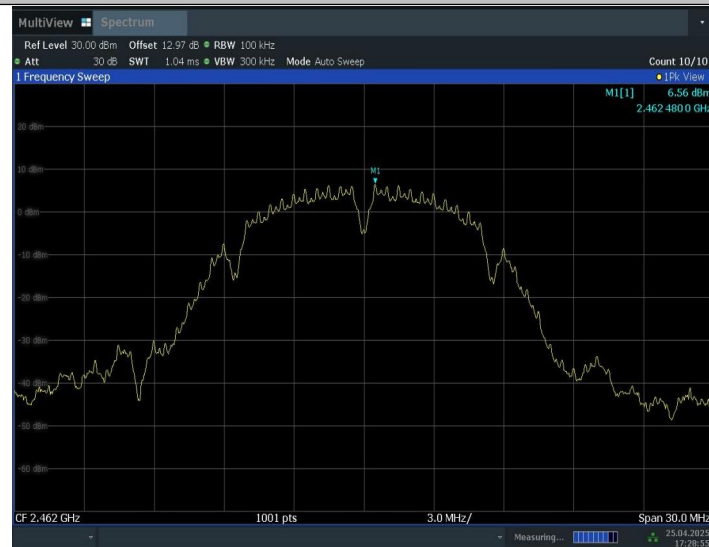
17:24:09 25.04.2025

11B_2437_1000~26500



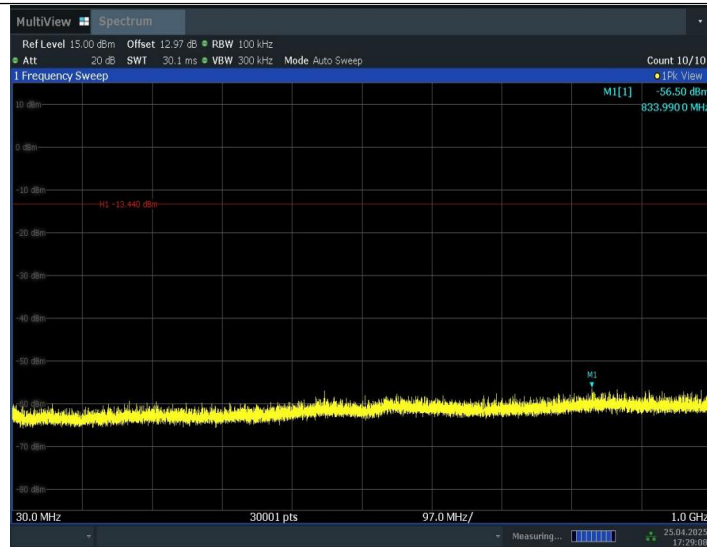
17:24:45 25.04.2025

11B_2462_0~Reference



17:28:56 25.04.2025

11B_2462_30~1000



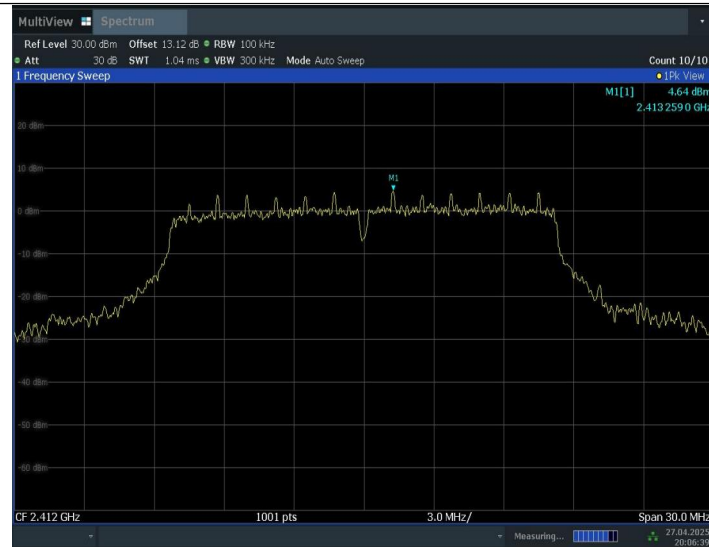
17:29:09 25.04.2025

11B_2462_1000~26500



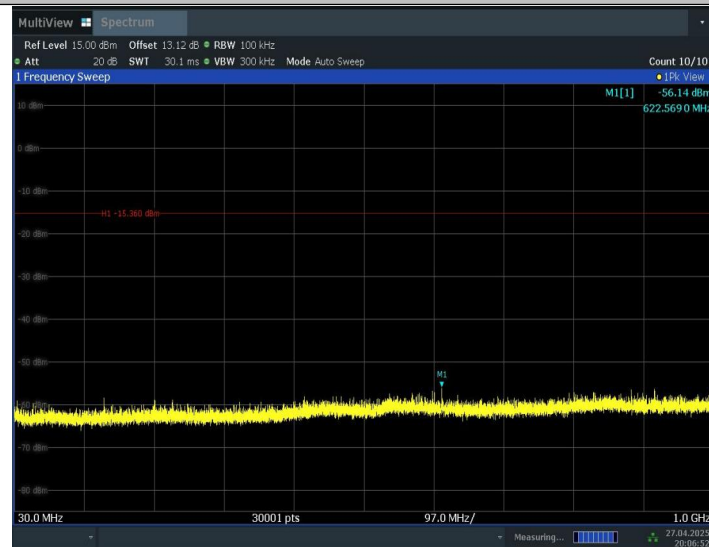
17:29:45 25.04.2025

11G_2412_0~Reference



20:06:39 27.04.2025

11G_2412_30~1000

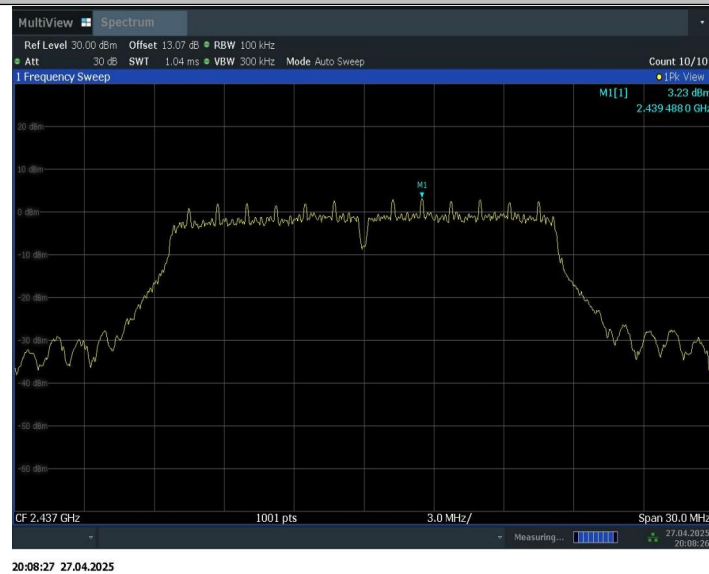


20:06:52 27.04.2025

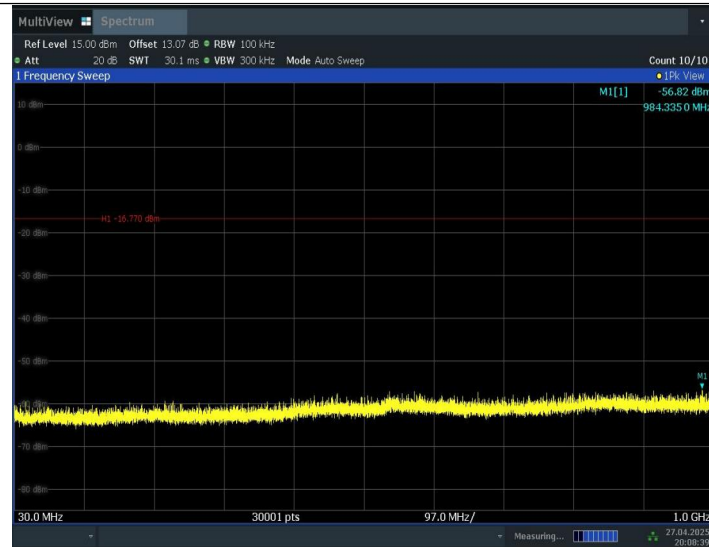
11G_2412_1000~26500



11G_2437_0~Reference



11G_2437_30~1000



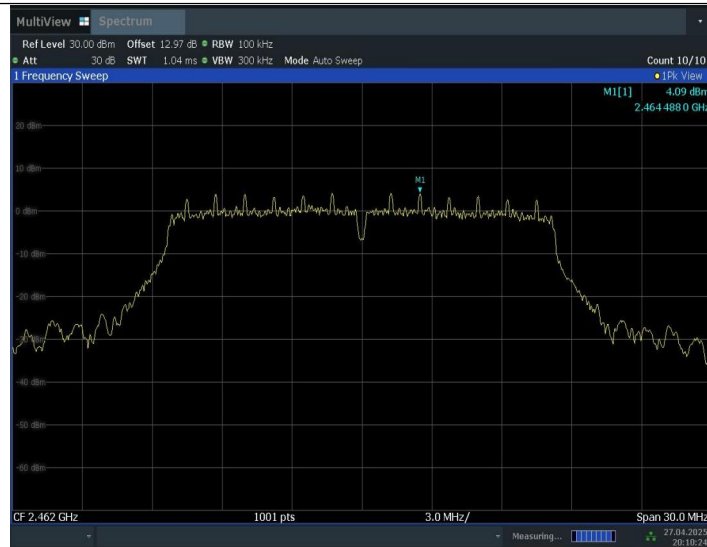
20:08:40 27.04.2025

11G_2437_1000~26500



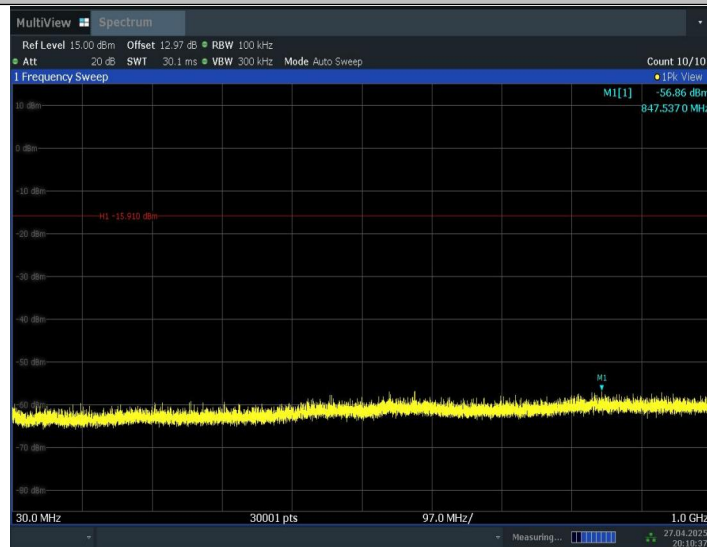
20:09:16 27.04.2025

11G_2462_0~Reference



20:10:24 27.04.2025

11G_2462_30~1000



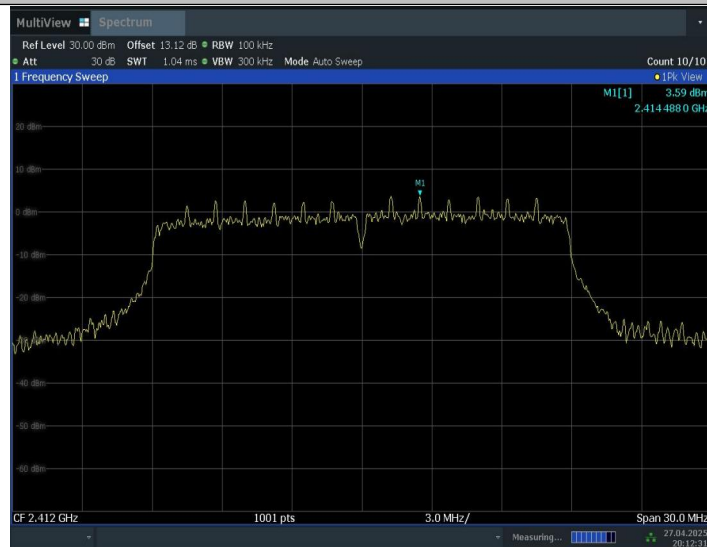
20:10:37 27.04.2025

11G_2462_1000~26500



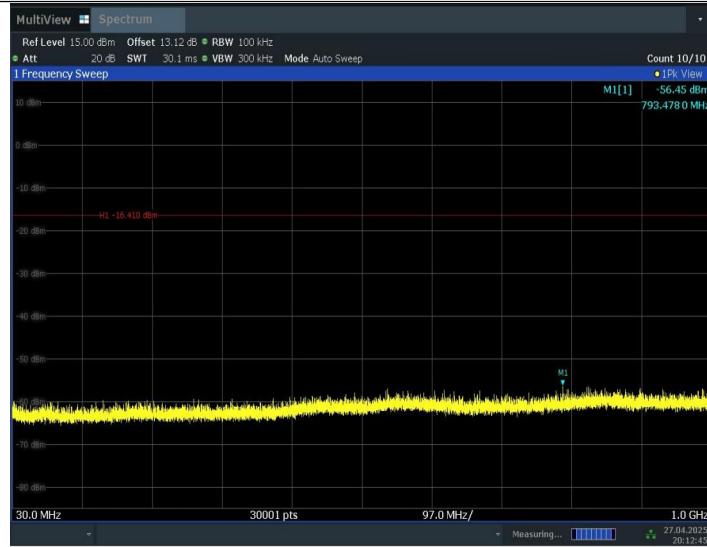
20:11:13 27.04.2025

11N20SISO_2412_0~Reference



20:12:32 27.04.2025

11N20SISO_2412_30~1000



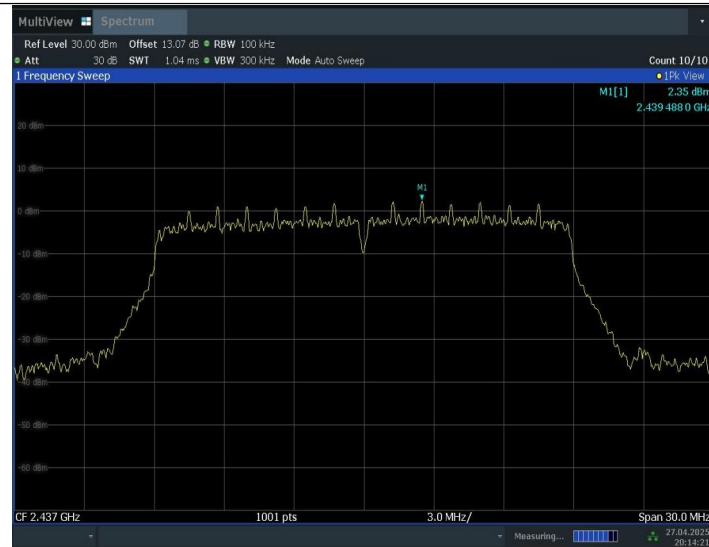
20:12:45 27.04.2025

11N20SISO_2412_1000~26500

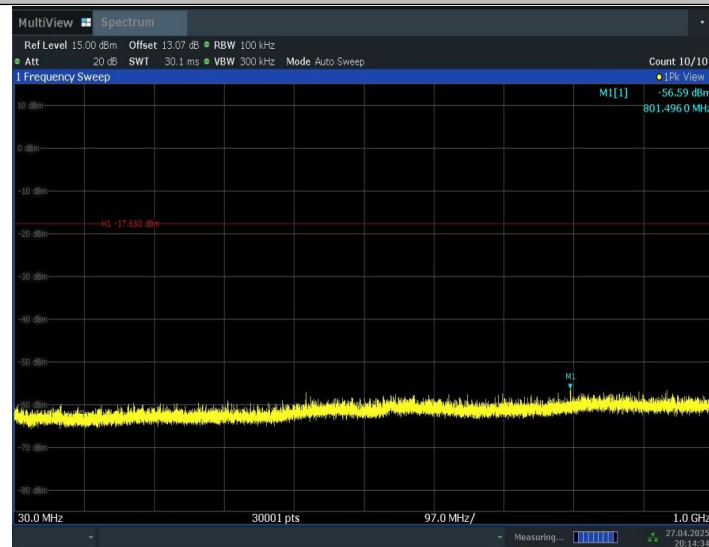


20:13:22 27.04.2025

11N20SISO_2437_0~Reference



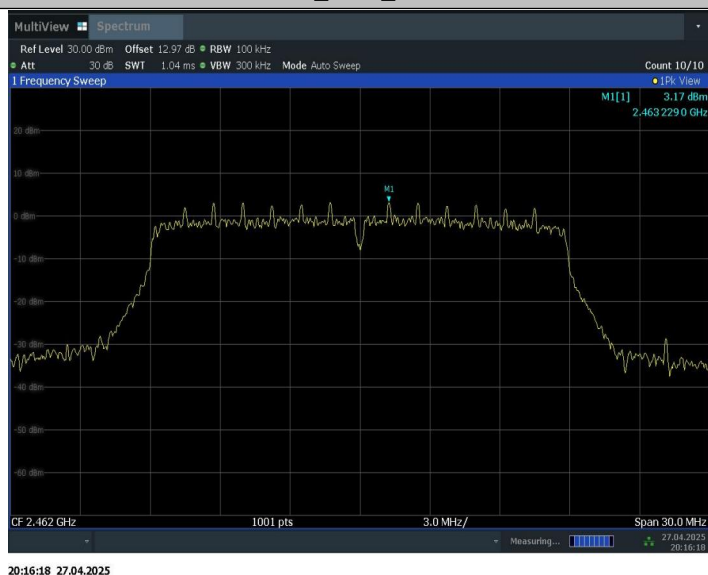
11N20SISO_2437_30~1000



11N20SISO_2437_1000~26500



11N20SISO_2462_0~Reference



11N20SISO_2462_30~1000



11N20SISO_2462_1000~26500



Conclusion: Pass

A.7. Radiated Unwanted Emission

Limits

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

Frequency of emission (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

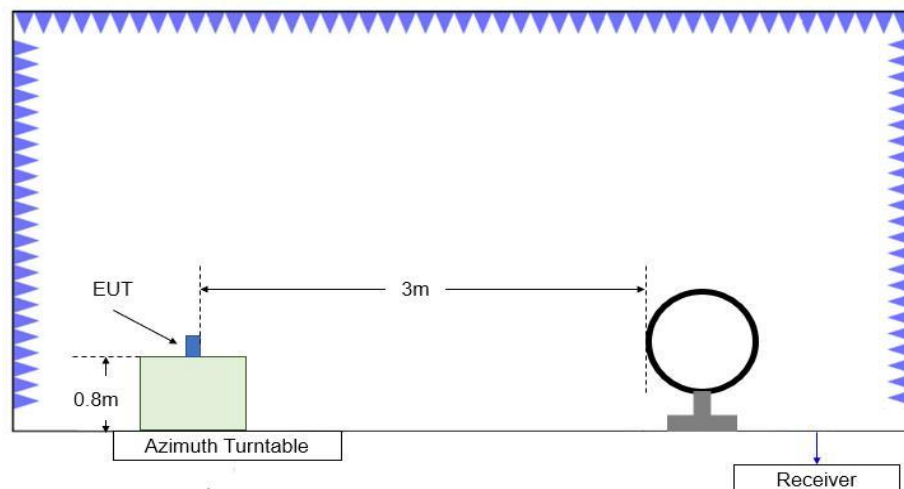


Figure A.2.1. Test Site Diagram (9kHz-30MHz)

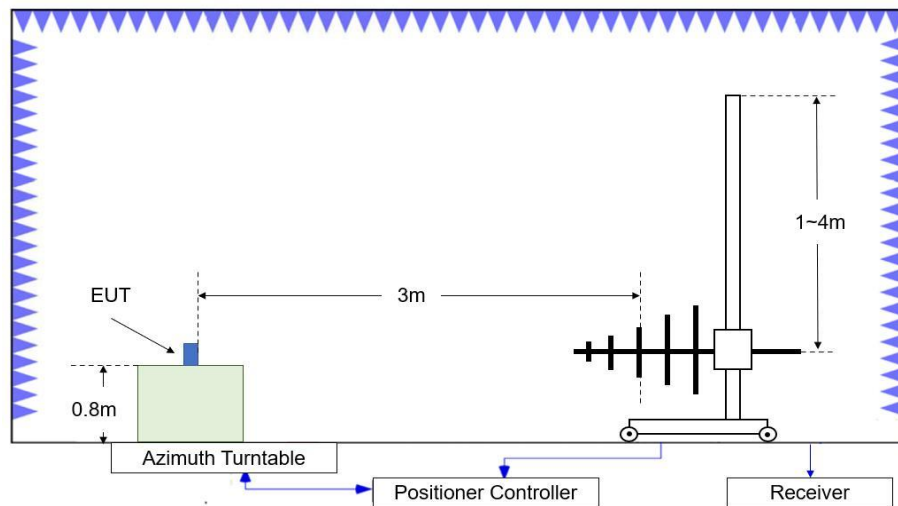


Figure A.2.2. Test Site Diagram (30MHz-1GHz)

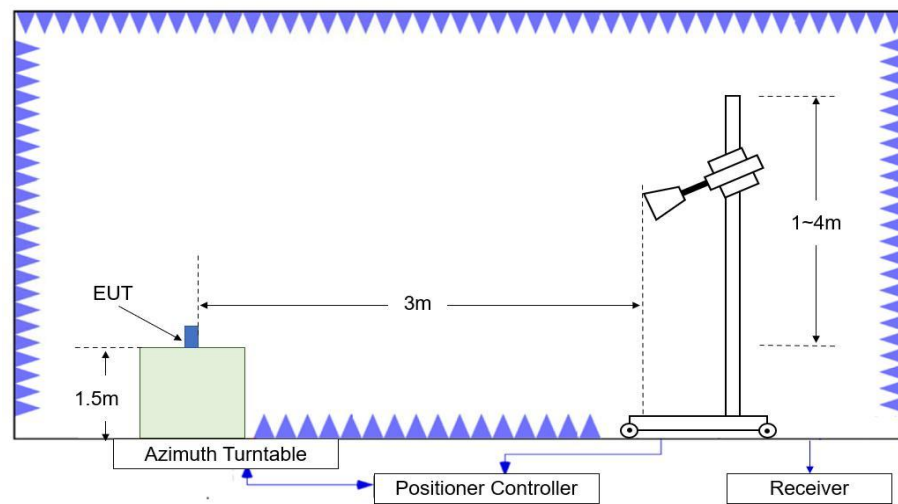


Figure A.2.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

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

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

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.

The measurement results are obtained as described below:

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

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

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)
7234.500	58.00	-34.50	37.40	55.10	74.00	16.00	V
17938.500	56.11	-25.40	42.30	39.21	74.00	17.89	H
13738.500	52.18	-29.10	40.70	40.58	74.00	21.82	V
12795.000	49.65	-30.40	39.60	40.45	74.00	24.35	H
4824.000	47.19	-37.10	32.60	51.69	74.00	26.81	H
2360.500	56.46	-19.20	27.30	48.36	74.00	17.54	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.000	56.56	-25.40	42.30	39.66	74.00	17.44	V
7312.000	53.51	-35.10	37.50	51.11	74.00	20.49	V
14187.000	51.41	-29.40	40.40	40.41	74.00	22.59	H
12792.000	49.42	-30.40	39.60	40.22	74.00	24.58	V
9147.000	47.20	-33.70	37.80	43.10	74.00	26.80	H
4873.500	45.69	-36.90	32.80	49.79	74.00	28.31	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)
17916.500	56.53	-25.40	42.30	39.63	74.00	17.47	H
7387.000	55.18	-34.90	37.50	52.58	74.00	18.82	V

13973.000	51.62	-28.90	40.70	39.82	74.00	22.38	H
4923.500	49.12	-36.90	32.90	53.12	74.00	24.88	V
11786.500	49.10	-31.30	38.90	41.50	74.00	24.90	V
2495.200	57.07	-19.00	27.90	48.17	74.00	16.93	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)
17888.000	56.01	-25.40	42.30	39.11	74.00	17.99	H
7230.500	53.53	-34.50	37.40	50.63	74.00	20.47	V
14071.500	51.65	-28.70	40.50	39.85	74.00	22.35	H
12970.000	49.60	-29.80	39.70	39.70	74.00	24.40	V
9530.000	46.86	-33.20	38.00	42.06	74.00	27.14	H
2389.900	67.53	-19.20	27.50	59.23	74.00	6.47	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)
17902.500	56.37	-25.40	42.30	39.47	74.00	17.63	V
13833.000	52.60	-29.10	40.90	40.80	74.00	21.40	V
7315.000	52.30	-35.10	37.50	49.90	74.00	21.70	V
12758.500	48.92	-30.40	39.40	39.92	74.00	25.08	V
9894.000	47.08	-33.10	38.10	42.08	74.00	26.92	H
4869.000	44.62	-36.90	32.80	48.72	74.00	29.38	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)
17926.500	56.14	-25.40	42.30	39.24	74.00	17.86	V
7389.000	53.60	-34.90	37.50	51.00	74.00	20.40	V
14074.000	51.66	-28.70	40.50	39.86	74.00	22.34	V
11881.000	49.72	-31.00	38.90	41.82	74.00	24.28	V
9575.000	47.83	-33.20	37.90	43.13	74.00	26.17	V
2485.200	63.06	-19.00	27.90	54.16	74.00	10.94	H

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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)
17933.000	56.38	-25.40	42.30	39.48	74.00	17.62	H
7236.500	55.16	-34.50	37.40	52.26	74.00	18.84	V
13731.000	52.16	-29.10	40.70	40.56	74.00	21.84	V
12951.500	49.16	-29.80	39.70	39.26	74.00	24.84	V
9669.500	46.84	-33.00	37.80	42.04	74.00	27.16	H
2389.900	64.76	-19.20	27.50	56.46	74.00	9.24	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)
17938.500	56.33	-25.40	42.30	39.43	74.00	17.67	V
7316.000	52.96	-35.10	37.50	50.56	74.00	21.04	V
13708.000	52.14	-29.90	40.70	41.34	74.00	21.86	V
12712.500	49.20	-30.40	39.40	40.20	74.00	24.80	V
8907.000	47.06	-33.60	37.70	42.96	74.00	26.94	H
4869.500	42.34	-36.90	32.80	46.44	74.00	31.66	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)
17911.500	56.00	-25.40	42.30	39.10	74.00	18.00	H
7391.000	52.71	-34.90	37.50	50.11	74.00	21.29	V
14077.000	51.99	-28.70	40.50	40.19	74.00	22.01	H
12707.000	48.98	-30.40	39.40	39.98	74.00	25.02	V
9906.000	47.56	-33.20	38.30	42.46	74.00	26.44	H
2485.200	63.66	-19.00	27.90	54.76	74.00	10.34	H

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)
7237.000	53.70	-34.50	37.40	50.80	54.00	0.30	V
17937.500	46.85	-25.40	42.30	29.95	54.00	7.15	V
4824.000	43.84	-37.10	32.60	48.34	54.00	10.16	H
14030.000	42.27	-28.70	40.70	30.27	54.00	11.73	H
12398.000	39.67	-30.10	38.80	30.97	54.00	14.33	V
2362.900	45.15	-19.20	27.30	37.05	54.00	8.85	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)
7312.000	49.41	-35.10	37.50	47.01	54.00	4.59	V
17953.500	46.68	-25.40	42.30	29.78	54.00	7.32	H
13759.500	42.35	-29.10	40.70	30.75	54.00	11.65	V
4874.000	41.85	-36.90	32.80	45.95	54.00	12.15	V
12771.500	39.67	-30.40	39.40	30.67	54.00	14.33	H
9639.000	37.36	-33.00	37.90	32.46	54.00	16.64	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
7385.000	50.86	-34.90	37.50	48.26	54.00	3.14	V
17939.000	46.98	-25.40	42.30	30.08	54.00	7.02	H
4924.000	46.17	-36.90	32.90	50.17	54.00	7.83	V
13730.000	42.13	-29.10	40.70	30.53	54.00	11.87	H
12993.000	39.43	-29.80	39.80	29.43	54.00	14.57	H
2486.500	45.87	-19.00	27.90	36.97	54.00	8.13	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)
17918.000	46.48	-25.40	42.30	29.58	54.00	7.52	H
7235.000	44.48	-34.50	37.40	41.58	54.00	9.52	V
14149.500	42.21	-29.40	40.50	31.11	54.00	11.79	H
11741.000	39.80	-31.30	38.90	32.20	54.00	14.20	H
8917.500	37.70	-33.60	37.70	33.60	54.00	16.30	H
2390.000	52.76	-19.20	27.50	44.46	54.00	1.24	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)
17937.500	46.59	-25.40	42.30	29.69	54.00	7.41	V
14090.500	42.71	-28.70	40.50	30.91	54.00	11.29	H
7310.000	40.66	-35.10	37.50	38.26	54.00	13.34	V
12793.000	39.59	-30.40	39.60	30.39	54.00	14.41	V
9660.500	37.31	-33.00	37.80	32.51	54.00	16.69	H
3119.500	35.77	-37.50	29.60	43.67	54.00	18.23	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)
17947.500	47.19	-25.40	42.30	30.29	54.00	6.81	H
7382.500	43.36	-34.90	37.50	40.76	54.00	10.64	H
13714.500	42.55	-29.10	40.70	30.95	54.00	11.45	H
12833.000	39.54	-30.60	39.60	30.54	54.00	14.46	H
8696.500	37.67	-34.20	37.70	34.17	54.00	16.33	V
2485.100	48.46	-19.00	27.90	39.56	54.00	5.54	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)
17903.500	46.58	-25.40	42.30	29.68	54.00	7.42	H
7236.000	45.63	-34.50	37.40	42.73	54.00	8.37	V
13744.000	42.15	-29.10	40.70	30.55	54.00	11.85	H
12384.000	39.54	-30.10	38.80	30.84	54.00	14.46	H
9143.500	37.63	-33.70	37.80	33.53	54.00	16.37	H
2390.000	50.15	-19.20	27.50	41.85	54.00	3.85	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)
17933.000	46.86	-25.40	42.30	29.96	54.00	7.14	V
14118.000	42.45	-29.40	40.50	31.35	54.00	11.55	H
7315.000	41.31	-35.10	37.50	38.91	54.00	12.69	V
12826.500	39.54	-30.60	39.60	30.54	54.00	14.46	V
8581.000	37.33	-33.60	37.60	33.33	54.00	16.67	H
4865.500	33.86	-36.90	32.80	37.96	54.00	20.14	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)
17915.000	47.42	-25.40	42.30	30.52	54.00	6.58	H
14107.000	42.19	-28.70	40.50	30.39	54.00	11.81	V
7390.000	41.34	-34.90	37.50	38.74	54.00	12.66	V
12780.500	39.68	-30.40	39.60	30.48	54.00	14.32	V
9171.500	37.38	-33.70	37.90	33.18	54.00	16.62	H
2485.100	49.72	-19.00	27.90	40.82	54.00	4.28	H

Band edge compliance

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.1	P
	11	2.45GHz~2.50GHz---H	Fig.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.3	P
	11	2.45GHz~2.50GHz---H	Fig.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.5	P
	11	2.45GHz~2.50GHz---H	Fig.6	P

Test graphs as below:

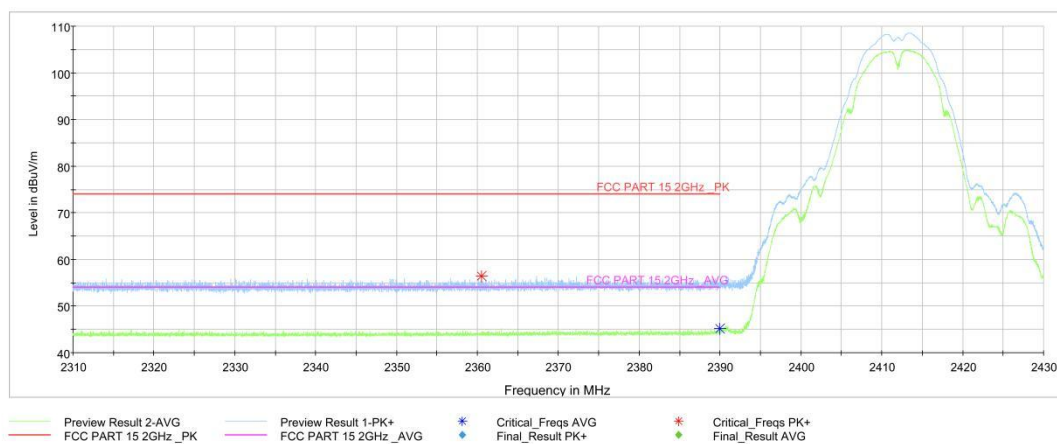


Fig.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

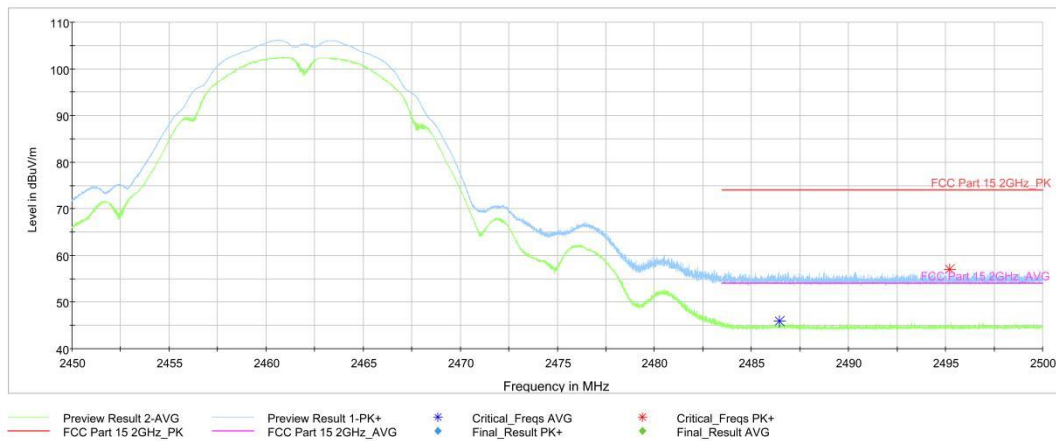


Fig.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

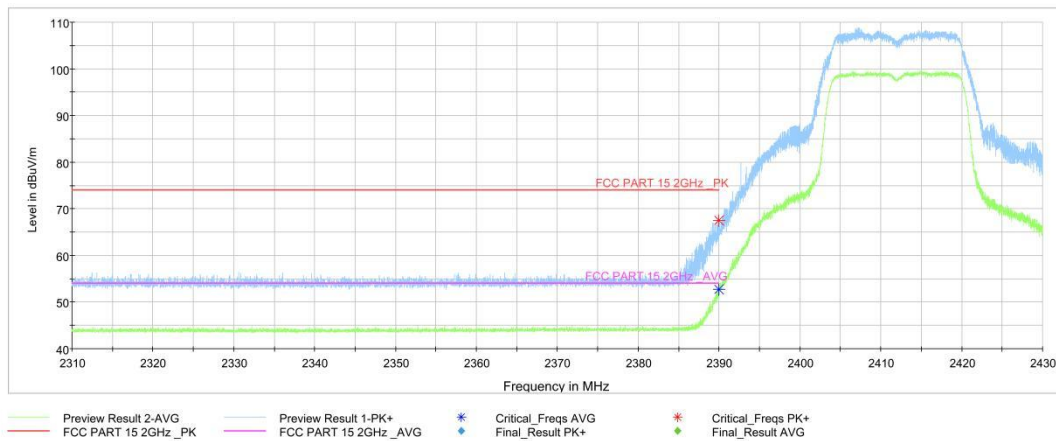


Fig.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

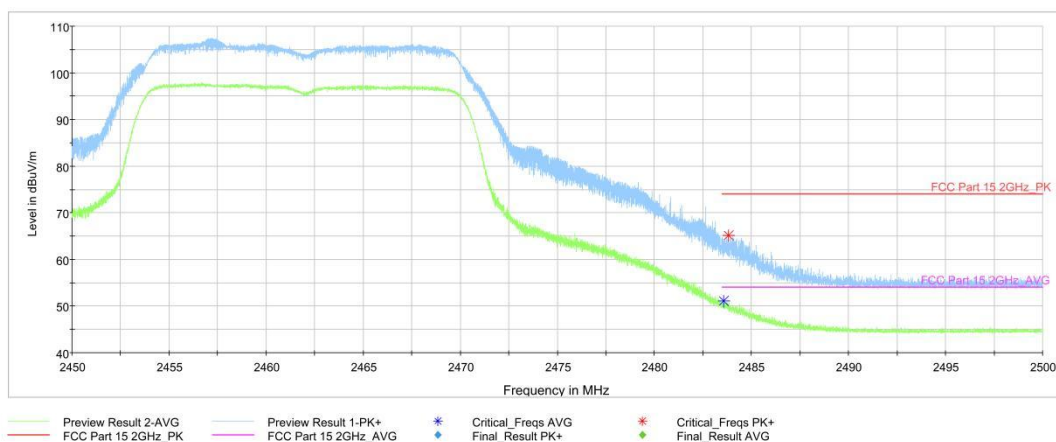


Fig.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

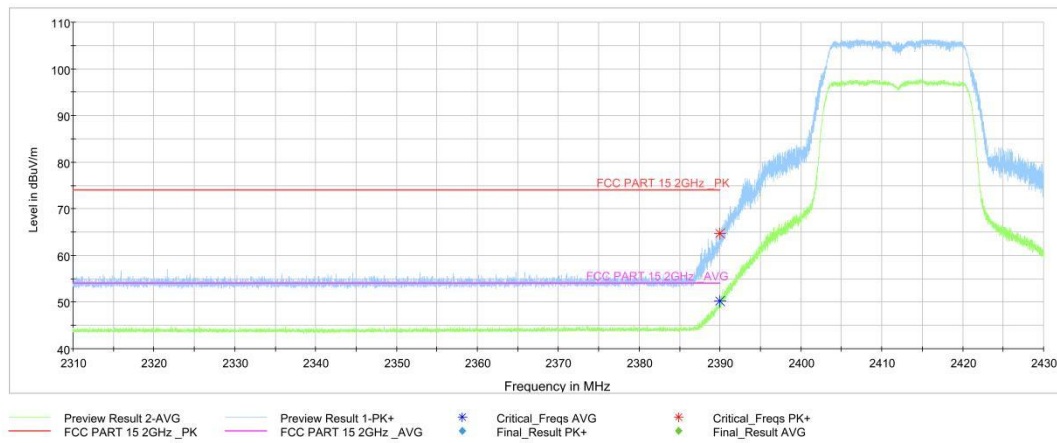


Fig.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.3 1 GHz - 2.43GHz

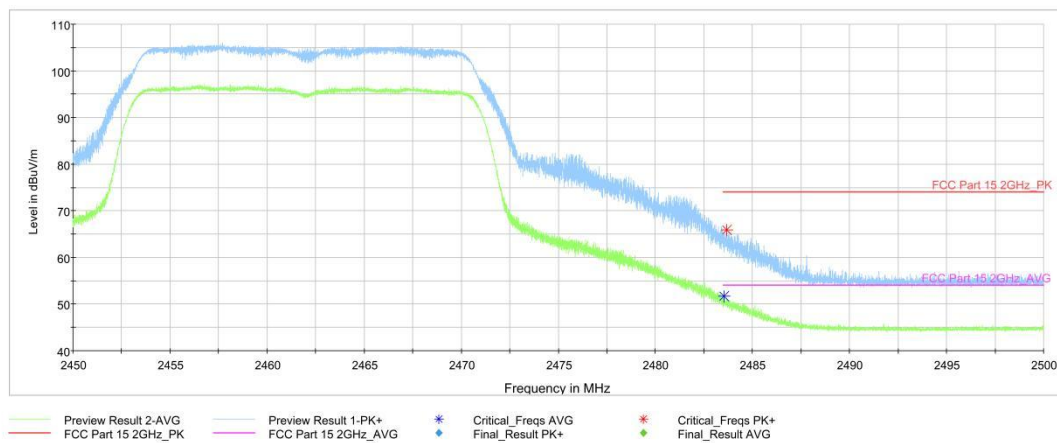


Fig.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

A.8. AC Power-line Conducted Emission

Summary

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

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

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

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

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

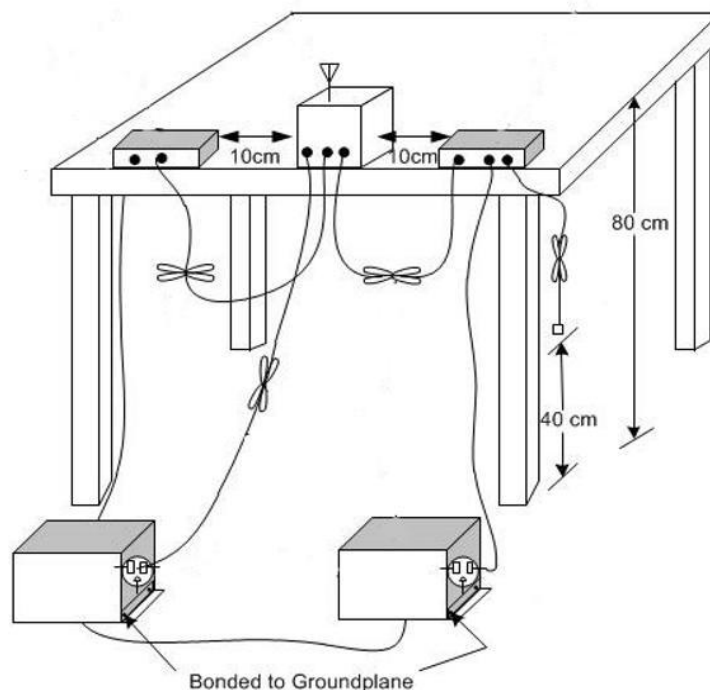
The measurement bandwidth is:

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

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.8.1	Fig.A.8.2	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.A.8.1	Fig.A.8.2	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Conclusion: Pass
Test graphs as below:

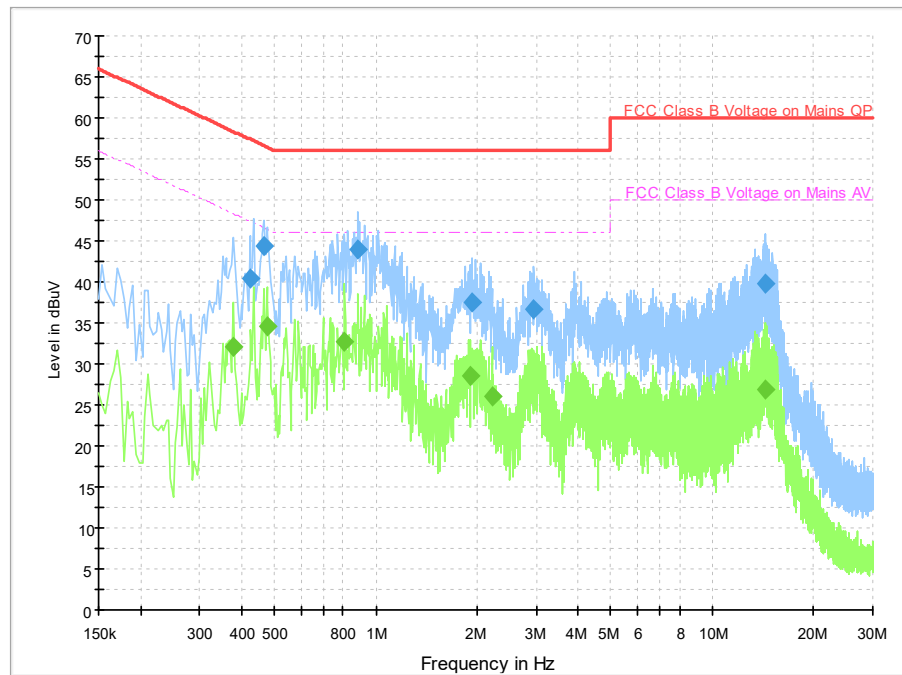


Fig.A.8.1 AC Powerline Conducted Emission-802.11b

Note: 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	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.422000	40.4	2000.0	9.000	On	N	19.9	17.0	57.4	
0.466000	44.4	2000.0	9.000	On	L1	20.0	12.2	56.6	
0.886000	43.9	2000.0	9.000	On	L1	19.9	12.1	56.0	
1.922000	37.4	2000.0	9.000	On	N	19.6	18.6	56.0	
2.958000	36.7	2000.0	9.000	On	N	19.6	19.3	56.0	
14.446000	39.8	2000.0	9.000	On	L1	20.0	20.2	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.378000	32.1	2000.0	9.000	On	N	19.8	16.2	48.3	
0.474000	34.7	2000.0	9.000	On	N	19.9	11.8	46.4	
0.806000	32.7	2000.0	9.000	On	N	19.8	13.3	46.0	
1.914000	28.6	2000.0	9.000	On	N	19.6	17.4	46.0	
2.210000	26.1	2000.0	9.000	On	N	19.6	19.9	46.0	
14.406000	26.8	2000.0	9.000	On	L1	20.0	23.2	50.0	

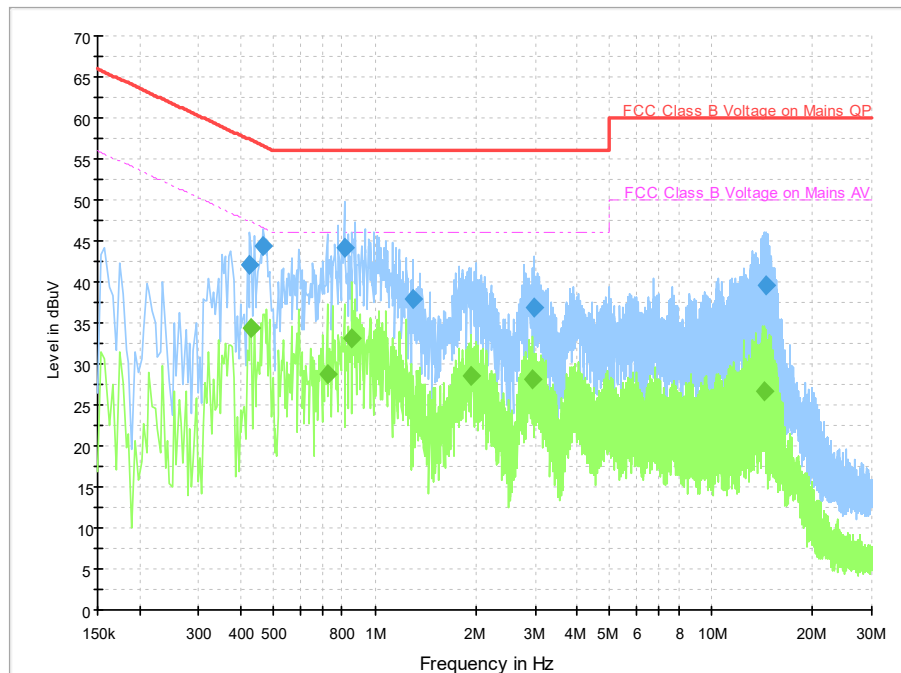


Fig.A.8.2 AC Powerline Conducted Emission-Idle

Note: 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	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.426000	42.2	2000.0	9.000	On	N	19.9	15.1	57.3	
0.466000	44.4	2000.0	9.000	On	L1	20.0	12.1	56.6	
0.810000	44.2	2000.0	9.000	On	N	19.8	11.8	56.0	
1.298000	37.8	2000.0	9.000	On	N	19.7	18.2	56.0	
2.962000	36.9	2000.0	9.000	On	N	19.6	19.1	56.0	
14.530000	39.6	2000.0	9.000	On	L1	20.0	20.4	60.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.430000	34.3	2000.0	9.000	On	N	19.9	13.0	47.3	
0.722000	28.8	2000.0	9.000	On	L1	20.0	17.2	46.0	
0.858000	33.2	2000.0	9.000	On	N	19.8	12.8	46.0	
1.926000	28.6	2000.0	9.000	On	N	19.6	17.4	46.0	
2.942000	28.1	2000.0	9.000	On	N	19.6	17.9	46.0	
14.454000	26.6	2000.0	9.000	On	L1	20.0	23.4	50.0	

A.9. Antenna Requirement

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

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

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

ANNEX C: Accreditation Certificate



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