

TEST REPORT

EUT Description	5G DIGITAL MOBILE PHONE
Brand Name	VERTU
Model Name	VTL-202502
FCC ID	2BGHD-VTL202502
IC ID	32468-VTL202502
Date of Test Start/End	2026-03-13 / 2026-05-15

Applicant	Chengdu Xiaochen Technology Co., Ltd
Address	3rd Floor,Building B6,Ganzhizhongguo Chengdu Center,No.777 Huafu Avenue Shuangliu County,Chengdu City,Sichuan Province,China
Manufacturers	Same as Application
Address	Same as Application
Factory	Same as Application
Address	Same as Application

Reference Standards	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 4, July 24, 2025 RSS-Gen Issue 5 Amendment 2 (February 2021) (see section 1)
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Test Report identification	RL20260313003EA
	Rev. 00
Revision Control	This test report revision replaces any previous test report revision. (see Document Changes)

Test Result: **Pass***

*The EUT complied with the test item(s) of the above standard (s), refer to the test summary for details.

Authorized for issue by:

Jim Chen

Jim Chen / Project Engineer



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Document Changes

Status	Date of issue	Revision	Description of the performed changes
Active	2025-08-26	Rev. 00	None (original version).



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 4, July 24, 2025	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) RSS-Gen Section 6.8	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 4, July 24, 2025	ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 6.2	47 CFR Part 15, Subpart C 15.207 RSS-Gen Section 8.8	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209 RSS-Gen Section 8.10	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209 RSS-Gen Section 8.9	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209 RSS-Gen Section 8.9	Pass
Conducted Peak Output Power		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1) RSS-247 Section 6.3.2	Pass
Power Spectrum Density		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e) RSS-247 Section 6.3.1(b)	Pass
99% Bandwidth		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 6.9.3	RSS-Gen Section 6.7	Pass
Minimum 6dB Bandwidth		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(1) RSS-247 Section 6.3.1(a)	Pass

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Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Band Edges Measurement		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d) RSS-247 Issue 4 Section 7.3.1.1	Pass
Conducted Spurious Emissions		ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d) RSS-247 Issue 4 Section 7.3.1.3	Pass



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4 General Information

4.1 Details of E.U.T.

EUT Description:	5G DIGITAL MOBILE PHONE	
Model No.:	VTL-202502	
Trade Mark:	VERTU	
Hardware Version:	P10	
Software Version:	15.0.2_6.01.01.01	
Power Supply:	DC 3.83V from internal rechargeable battery which can be charge by AC/DC adapter	
Operation Frequency:	2402MHz to 2480MHz	
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK,CCK)
	802.11g:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM /OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11b/g(Legacy)/n(HT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ax(HE40)
Antenna Type:	PIFA Antenna	
Antenna Gain*:	☒ Provided by client	
	-1.7dBi(Ant4); -3.7dBi(Ant10)	
Smart System:	☒ SISO	802.11b/g
	☒ MIMO	802.11n/ax: 2Tx & 2Rx
	☒ Diversity	CDD: 802.11b/g: 2Tx & 2Rx
RF Cable:	2000MHz ~ 3000MHz (1.0dB)	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Radiolink test lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:As above information is provided and confirmed by the applicant. Radiolink test lab is not liable to the accuracy, suitability, reliability or/and integrity of the information.



Channel	Frequency
802.11b/g/n20/ax20:	
The Lowest channel(CH1)	2412MHz
The Middle channel(CH6)	2437MHz
The Highest channel(CH11)	2462MHz
802.11n40/ax40:	
The Lowest channel(CH3)	2422MHz
The Middle channel(CH6)	2437MHz
The Highest channel(CH9)	2452MHz

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4.2 Power Setting of Test Software

Software Name	Qualcomm3 Radio Control Toolkit v4.0		
Frequency(MHz)	2412	2437	2462
802.11b Setting(ANT4&10)	19	19	14
802.11g Setting(ANT4&10)	19	19	12
Frequency(MHz)	2412	2437	2462
802.11n20 Setting (MIMO)	14	19	11
802.11ax20 Setting (MIMO)	13	19	10
Frequency(MHz)	2422	2437	2452
802.11n40 Setting (MIMO)	11	19	11
802.11ax40 Setting (MIMO)	11	19	10

4.3 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	38.8-50.8 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	24.5~26.8	3.83
LTNV	0	3.4
HTNV	40	4.3

Note:

NV:Normal Voltage

LV:Low Extreme Test Voltage

HV:High Extreme Test Voltage

NT:Normal Temperature

LT:Low Extreme Test Temperature

HT:High Extreme Test Temperature



4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.2dB
Radiated Emissions which fall in the restricted bands	± 3.7dB (Below 1GHz), ± 4.7dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.7dB
Radiated Spurious Emissions Above 1GHz	± 4.7dB
Conducted Peak Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 0.35dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB

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Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.6 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
. A2LA (Certificate No. 7572.01)
Radiolink Testing (Shenzhen) Co., Ltd, Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7572.01.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



5 Equipment List

Transmitter unwanted emissions in the spurious domain/ Receiver spurious emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	TDK	966	RL01-01	2024/11/22	2027/11/21
Horn Antenna(1GHz-18GHz)	Schwarzbeck	BBHA 9120D	RL03-01	2025/3/28	2028/3/27
BiConiLog Antenna(30MHz-3GHz)	Schwarzbeck	VULB9163	RL03-02	2025/4/7	2028/4/6
Active Loop Antenna(9kHz-30MHz)	Schwarzbeck	FMZB 1519B	RL03-03	2025/3/28	2028/3/27
Horn Antenna(15GHz-40GHz)	Schwarzbeck	BBHA 9170	RL03-04	2025/3/28	2028/3/27
Horn Antenna(15GHz-40GHz)	Schwarzbeck	BBHA 9170	RL03-05	2025/3/28	2028/3/27
MXE EMI Receiver(3Hz-8.4GHz)	KEYSIGHT	N9038A	RL04-01	2025/3/31	2026/3/30
MXE EMI Receiver(3Hz-8.4GHz)	KEYSIGHT	N9038A	RL04-01	2026/4/03	2027/4/02
EXA Signal Analyzer(10Hz-44GHz)	KEYSIGHT	N9010B	RL04-03	2025/3/31	2026/3/30
EXA Signal Analyzer(10Hz-44GHz)	KEYSIGHT	N9010B	RL04-03	2026/4/3	2027/4/2
Pre-Amplifier(500MHz-18GHz)	Tonscend	TPA-011845	RL06-02	2025/3/31	2026/3/30
Pre-Amplifier(500MHz-18GHz)	Tonscend	TPA-011845	RL06-02	2026/4/3	2027/4/2
Pre-Amplifier(18GHz-26GHz)	Tonscend	TPA-182645	RL06-03	2025/3/31	2026/3/30
Pre-Amplifier(18GHz-26GHz)	Tonscend	TPA-182645	RL06-03	2026/4/3	2027/4/2
Pre-Amplifier(26GHz-40GHz)	Tonscend	TPA-184045	RL06-04	2025/3/31	2026/3/30
Pre-Amplifier(26GHz-40GHz)	Tonscend	TPA-184045	RL06-04	2026/4/3	2027/4/2
Pre-Amplifier(0.4GHz-8GHz)	TST PASS	LNA04080G30	RL06-05	2025/4/11	2026/4/10
Pre-Amplifier(0.4GHz-8GHz)	TST PASS	LNA04080G30	RL06-05	2026/4/3	2027/4/2
Attenuation Clamp(150kHz-1000MHz)	Teseq	KEMA 801A	RL07-09	2025/4/3	2026/4/2
Attenuation Clamp(150kHz-1000MHz)	Teseq	KEMA 801A	RL07-09	2026/4/13	2027/4/12
AC Power Source	Preen	KDF-11002G	RL08-03	2025/3/31	2026/3/30
AC Power Source	Preen	KDF-11002G	RL08-03	2026/4/3	2027/4/2
Intelligent Line Power Conditioner	Preen	APS-11040GG	RL08-04	2025/3/31	2026/3/30

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Intelligent Line Power Conditioner	Preen	APS-11040GG	RL08-04	2026/4/3	2027/4/2
Coaxial Cable(9kHz-30MHz)	Radiolink	N/A	RL20-01	N/A	N/A
Coaxial Cable(30MHz-1000MHz)	Radiolink	N/A	RL20-02	N/A	N/A
Coaxial Cable(1GHz-18GHz)	Radiolink	N/A	RL20-03	N/A	N/A
Coaxial Cable(18GHz-40GHz)	Radiolink	N/A	RL20-04	N/A	N/A
Coaxial Cable(9kHz-30MHz)	Radiolink	N/A	RL20-05	N/A	N/A
Measurement Software	AUDIX	e3 V9	N/A	N/A	N/A



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Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	TDK	643	RL01-01	2025/03/31	2028/03/30
EMI Test Receiver	Rohde & Schwarz	ESPI-3	RL04-02	2025/04/11	2026/04/10
EMI Test Receiver	Rohde & Schwarz	ESPI-3	RL04-02	2026/04/03	2027/04/02
V-LISN(9kHz-30MHz)	Rohde & Schwarz	NSLK 8127 RC	RL07-01	2025/03/31	2026/03/30
V-LISN(9kHz-30MHz)	Rohde & Schwarz	NSLK 8127 RC	RL07-01	2026/04/03	2027/04/02
Measurement Software	AUDIX	e3 V9	N/A	N/A	N/A

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	KEYSIGHT	N9010B	RL04-03	2025/3/31	2026/3/30
EXA Signal Analyzer(10Hz-44GHz)	KEYSIGHT	N9010B	RL04-03	2026/4/3	2027/4/2
MXG Vector Signal Generator(100kHz-6GHz)	N5182A	N5182A	RL05-05	2025/3/31	2026/3/30
MXG Vector Signal Generator(100kHz-6GHz)	N5182A	N5182A	RL05-05	2026/4/3	2027/4/2
SIGNAL GENERATOR(10MHz-20GHz)	SMP22	SMP22	RL05-06	2025/3/31	2026/3/30
SIGNAL GENERATOR(10MHz-20GHz)	SMP22	SMP22	RL05-06	2026/4/3	2027/4/2
Wideband Radio Communication Tester	CMW 500	CMW 500	RL05-07	2025/3/31	2026/3/30
Wideband Radio Communication Tester	CMW 500	CMW 500	RL05-07	2026/4/3	2027/4/2
Measurement Software	TST	TSTPASS V2.0	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Electronic Hygrothermograph	deli	8838	RL02-02	2025/3/29	2026/3/28
Electronic Hygrothermograph	deli	8838	RL02-02	2026/5/7	2027/5/6
Electronic Hygrothermograph	deli	8838	RL02-03	2025/3/29	2026/3/28
Electronic Hygrothermograph	deli	8838	RL02-03	2026/4/23	2027/4/22
Electronic	deli	8838	RL02-04	2025/3/29	2026/3/28

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Hygrothermograph					
Electronic Hygrothermograph	deli	8838	RL02-04	2026/4/23	2027/4/22
Electronic Hygrothermograph	deli	8838	RL02-05	2025/3/29	2026/3/28
Electronic Hygrothermograph	deli	8838	RL02-05	2026/4/8	2027/4/07
Barometer	Shanghai Mengte Instrument	DYM3	RL02-01	2025/03/31	2026/03/30
Barometer	Shanghai Mengte Instrument	DYM3	RL02-01	2026/4/8	2027/4/7



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6 Emission Test Results

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

RSS-Gen Section 6.8

FCC requirement:

15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC requirement:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -1.7dBi(Ant4); -3.7dBi(Ant10).

Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
RSS-Gen Section 8.8

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 6.2

Limit:

Frequency of emission(MHz)
0.15-0.5
0.5-5
5-30
*Decreases with the logarithm of the frequency.
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

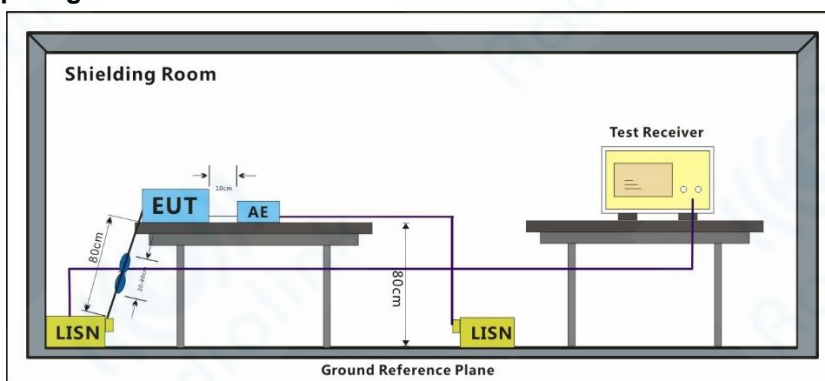
Operating Environment:

Temperature: 22.3 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark : Level=Read Level+ Cable Loss+ LISN Factor

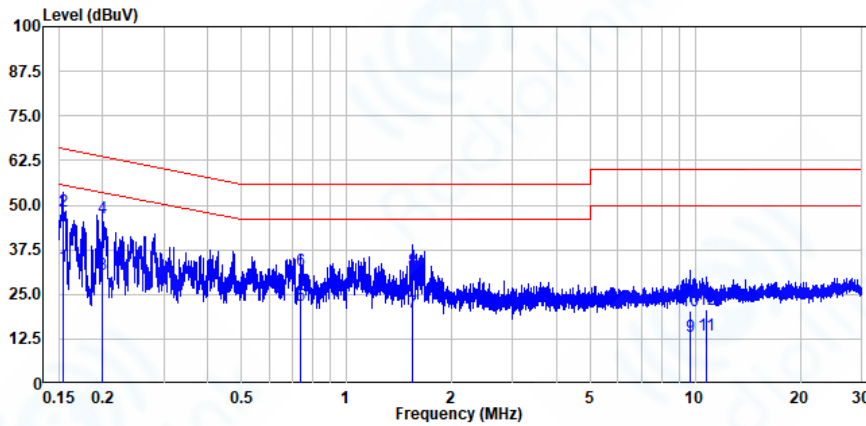


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Tel: +86 0755 23080694

Line: Live line



Site : chamber
Condition: Line
EUT : VTL-202502
Mode : LTEB2 Idle+Adapter+USB cable+SIM1+WIFI Idle+BT Idle+GPS RX+Front Camera C
Note : RL20260000301A

Result	Freq	Level	Limit	LISN	Cable	Read	Over	Pol/Phase
	MHz	dBuV	dBuV	dB	Loss	dBuV	Limit	
1 Pass	0.154	32.67	55.80	0.05	9.81 Average	22.81	-23.13	Line
2 Pass	0.154	48.45	65.80	0.05	9.81 QP	38.59	-17.35	Line
3 AV	0.200	30.53	53.61	0.10	9.92 Average	20.51	-23.08	Line
4 PP	0.200	46.37	63.61	0.10	9.92 QP	36.35	-17.24	Line
5 Pass	0.740	21.99	46.00	0.10	10.52 Average	11.37	-24.01	Line
6 Pass	0.740	31.83	56.00	0.10	10.52 QP	21.21	-24.17	Line
7 Pass	1.542	20.08	46.00	0.12	10.62 Average	9.34	-25.92	Line
8 Pass	1.542	31.85	56.00	0.12	10.62 QP	21.11	-24.15	Line
9 Pass	9.641	13.24	50.00	0.37	10.46 Average	2.41	-36.76	Line
10 Pass	9.641	20.53	60.00	0.37	10.46 QP	9.70	-39.47	Line
11 Pass	10.740	13.49	50.00	0.41	10.45 Average	2.63	-36.51	Line
12 Pass	10.740	20.71	60.00	0.41	10.45 QP	9.85	-39.29	Line

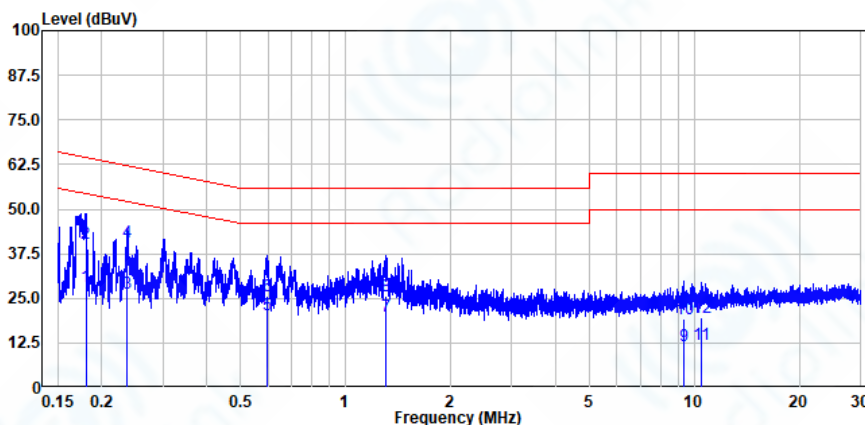


Radiolink Testing (Shenzhen) Co., Ltd.

Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

Line: Neutral Line



Site : chamber
Condition: Neutral
EUT : VTL-202502
Mode : LTEB2 Idle+Adapter+USB cable+SIM1+WIFI Idle+BT Idle+GPS RX+Front Camera C
Note : RL20260000301A

Result	Freq	Level	Limit	LISN	Cable	Read	Over	Pol/Phase
	MHz	dBuV	dBuV	dB	Loss	dBuV	dB	
1 Pass	0.180	28.18	54.48	0.14	9.87	18.17	-26.30	Neutral
2 Pass	0.180	40.27	64.48	0.14	9.87	30.26	-24.21	Neutral
3 Pass	0.237	26.37	52.19	0.16	9.99	16.22	-25.82	Neutral
4 PP	0.237	40.78	62.19	0.16	9.99	30.63	-21.41	Neutral
5 AV	0.596	20.26	46.00	0.18	10.46	9.62	-25.74	Neutral
6 Pass	0.596	25.82	56.00	0.18	10.46	15.18	-30.18	Neutral
7 Pass	1.310	20.04	46.00	0.17	10.61	9.26	-25.96	Neutral
8 Pass	1.310	25.80	56.00	0.17	10.61	15.02	-30.20	Neutral
9 Pass	9.339	11.60	50.00	0.43	10.47	0.70	-38.40	Neutral
10 Pass	9.339	19.39	60.00	0.43	10.47	8.49	-40.61	Neutral
11 Pass	10.473	12.12	50.00	0.46	10.45	1.21	-37.88	Neutral
12 Pass	10.473	19.58	60.00	0.46	10.45	8.67	-40.42	Neutral

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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
RSS-Gen Section 8.10

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

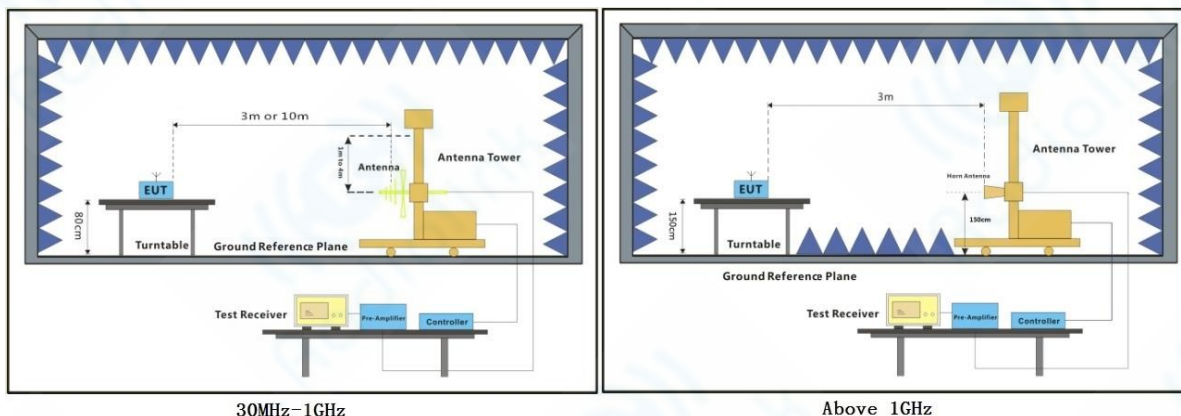
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mod.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

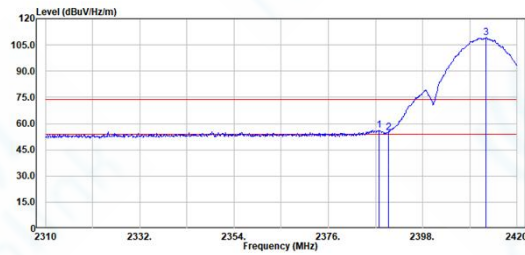
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



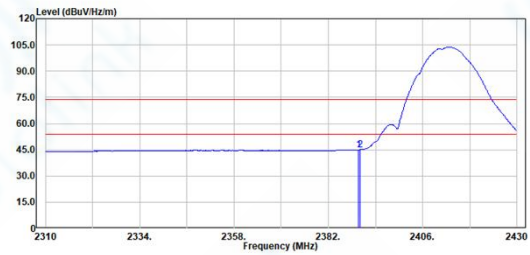
11b_TX_CH_01_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

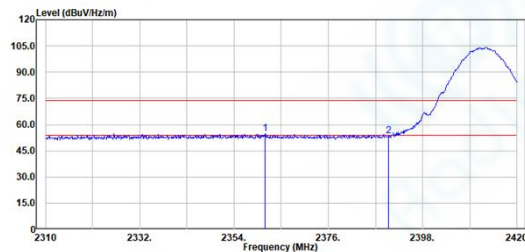
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2387.770	HORIZONTAL	58.76	56.35	74.00	-17.65	Peak	46.43	5.24	28.30
2 2390.000	HORIZONTAL	57.12	54.69	74.00	-19.31	Peak	46.43	5.24	28.28
3 2412.850	HORIZONTAL	111.49	109.09	74.00	35.09	Peak	46.42	5.25	28.30

11b_TX_CH_01_Horizontal-Avg



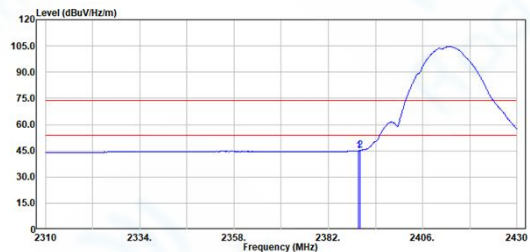
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.680	HORIZONTAL	47.42	44.99	54.00	-9.01	Average	46.43	5.24	28.28
2 2390.000	HORIZONTAL	47.46	45.03	54.00	-8.97	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2361.150	VERTICAL	57.20	55.00	74.00	-19.00	Peak	46.43	5.24	28.31
2 2390.000	VERTICAL	55.67	53.24	74.00	-20.76	Peak	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

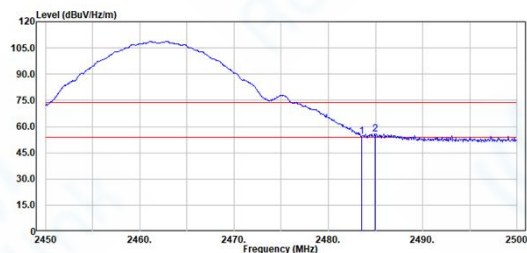
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.680	VERTICAL	47.43	45.00	54.00	-9.00	Average	46.43	5.24	28.28
2 2390.000	VERTICAL	47.56	45.13	54.00	-8.87	Average	46.43	5.24	28.28

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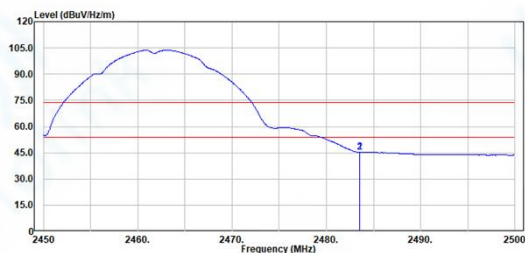
11b_TX_CH_11_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

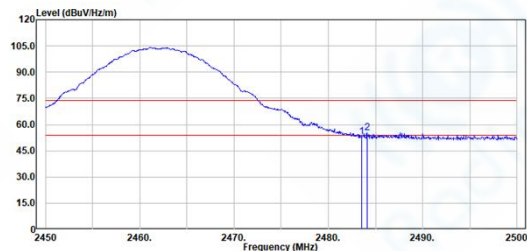
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 HORIZONTAL	56.99	54.16	74.00	-19.84	Peak	46.41	5.27	27.86
2	2484.950 HORIZONTAL	58.69	55.04	74.00	-18.96	Peak	46.41	5.28	27.83

11b_TX_CH_11_Horizontal-Avg



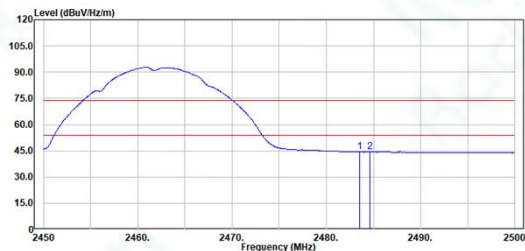
Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 VERTICAL	48.14	45.31	54.00	-8.69	Average	46.41	5.27	27.86
2	2483.500 VERTICAL	48.14	45.31	54.00	-8.69	Average	46.41	5.27	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 VERTICAL	55.81	52.98	74.00	-21.02	Peak	46.41	5.27	27.86
2	2484.950 VERTICAL	58.28	55.36	74.00	-18.64	Peak	46.41	5.27	27.85

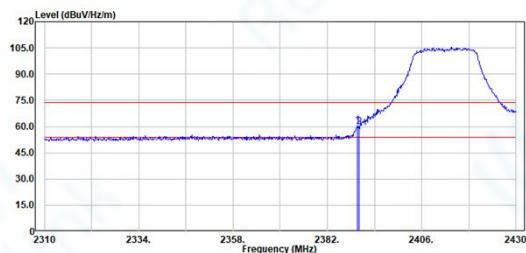


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11b_TX_CH11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 VERTICAL	47.10	44.27	54.00	-9.73	Average	46.41	5.27	27.86
2	2484.950 VERTICAL	47.15	44.31	54.00	-9.69	Average	46.41	5.28	27.84



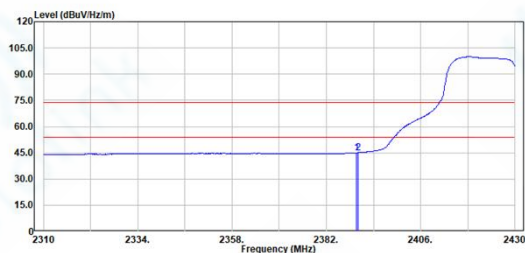
11g_TX_CH_01_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH1
Power : 14
Rate : 6M
Note : IMEI:358028660010991

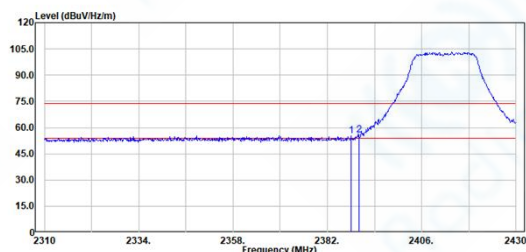
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2388.000	HORIZONTAL	63.16	60.75	74.00	-13.25	Peak	46.43	5.24	28.28
2 2390.000	HORIZONTAL	62.34	59.91	74.00	-14.09	Peak	46.43	5.24	28.28

11g_TX_CH_01_Horizontal-Avg



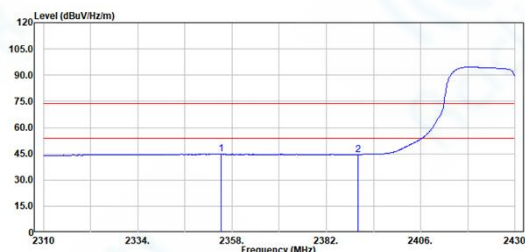
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH1
Power : 14
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2388.000	HORIZONTAL	47.42	44.99	54.00	-9.01	Average	46.43	5.24	28.28
2 2390.000	HORIZONTAL	47.47	45.04	54.00	-8.96	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH1
Power : 14
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2388.000	VERTICAL	57.78	55.37	74.00	-18.63	Peak	46.43	5.24	28.30
2 2390.000	VERTICAL	58.11	55.68	74.00	-18.32	Peak	46.43	5.24	28.28

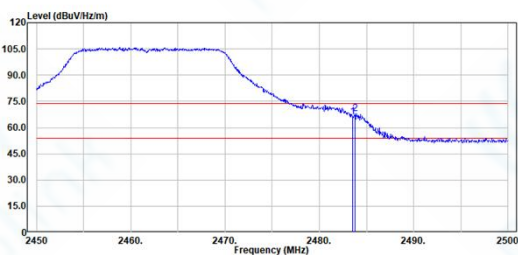


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH1
Power : 14
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2388.000	VERTICAL	46.85	44.43	54.00	-9.57	Average	46.43	5.23	28.56
2 2390.000	VERTICAL	46.96	44.53	54.00	-9.47	Average	46.43	5.24	28.28



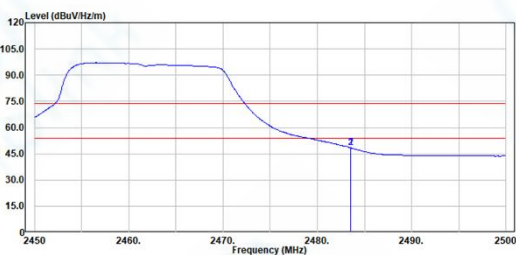
11g_TX_CH_11_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH11
Power : 12
Rate : 6M
Note : IMEI:358028660010991

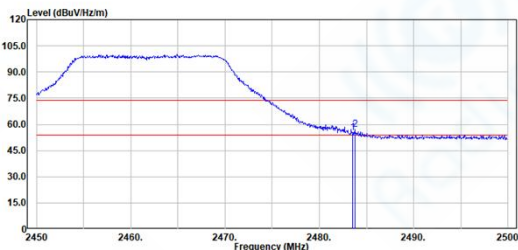
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 2483.500	HORIZONTAL	68.89	66.06	74.00	-7.94	Peak	46.41	5.27	27.86
2 2483.750	HORIZONTAL	70.81	67.98	74.00	-6.02	Peak	46.41	5.27	27.86

11g_TX_CH_11_Horizontal-Avg



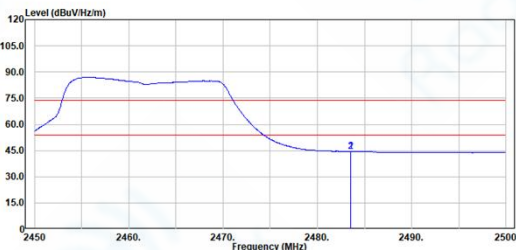
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH11
Power : 12
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 2483.500	HORIZONTAL	51.33	48.50	54.00	-5.50	Average	46.41	5.27	27.86
2 2483.500	HORIZONTAL	51.33	48.50	54.00	-5.50	Average	46.41	5.27	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH11
Power : 12
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 2483.500	VERTICAL	58.25	55.42	74.00	-18.58	Peak	46.41	5.27	27.86
2 2483.750	VERTICAL	59.86	57.03	74.00	-16.97	Peak	46.41	5.27	27.86



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11g_TX_CH11
Power : 12
Rate : 6M
Note : IMEI:358028660010991

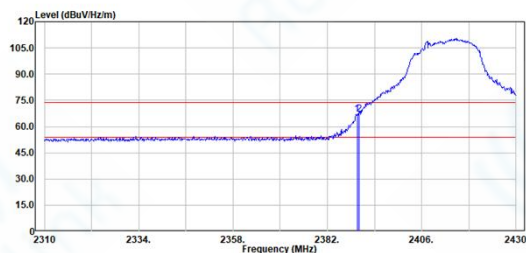
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 2483.500	HORIZONTAL	47.17	44.34	54.00	-9.66	Average	46.41	5.27	27.86
2 2483.550	HORIZONTAL	47.18	44.35	54.00	-9.65	Average	46.41	5.27	27.86

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Tel: +86 0755 23080694

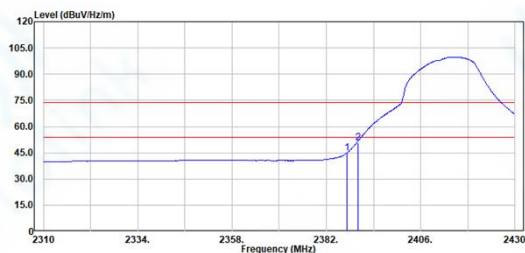
11n(20M)_TX_CH_01_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 14
Rate : MCS0
Note : IMEI:358028660010991

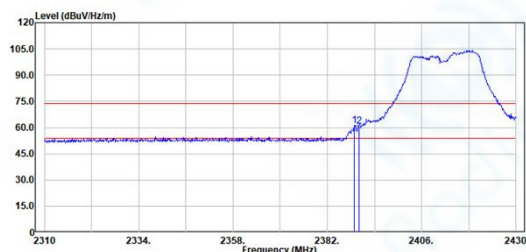
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2387.280	HORIZONTAL	69.95	67.18	74.00	-6.82	Peak	46.68	5.17	28.28
2 2390.000	HORIZONTAL	69.62	66.87	74.00	-7.13	Peak	46.68	5.17	28.28

11n(20M)_TX_CH_01_Horizontal-Avg



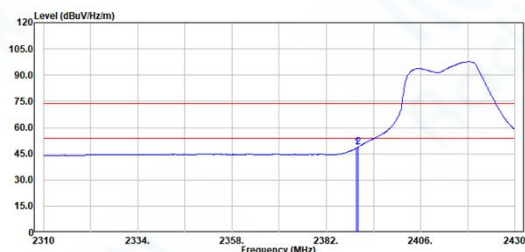
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 14
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2387.280	HORIZONTAL	47.46	45.05	54.00	-8.95	Average	46.43	5.24	28.28
2 2390.000	HORIZONTAL	53.04	50.61	54.00	-3.39	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 14
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2387.280	VERTICAL	64.89	61.35	74.00	-12.65	Peak	46.68	5.17	28.28
2 2390.000	VERTICAL	63.57	60.82	74.00	-13.18	Peak	46.68	5.17	28.28

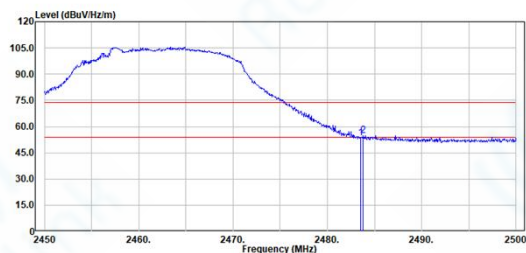


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 14
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2387.280	VERTICAL	50.72	48.20	54.00	-5.71	Average	46.43	5.24	28.28
2 2390.000	VERTICAL	51.24	48.81	54.00	-5.19	Average	46.43	5.24	28.28



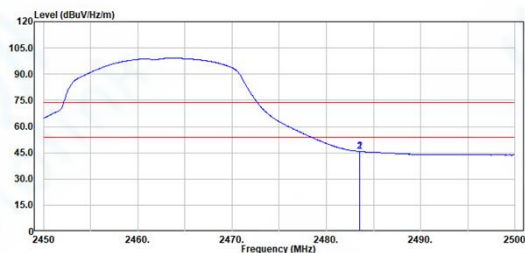
11n(20M)_TX_CH_11_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH11
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

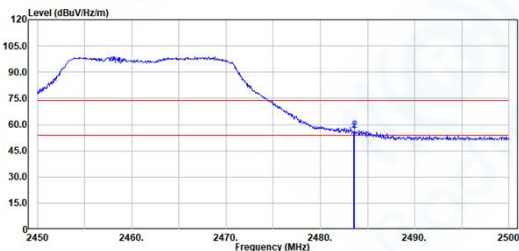
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	56.67	53.52	74.00	-20.48	Peak	46.65	5.19	27.86
2 2483.750	HORIZONTAL	58.65	54.98	74.00	-19.18	Peak	46.65	5.19	27.86

11n(20M)_TX_CH_11_Horizontal-Avg



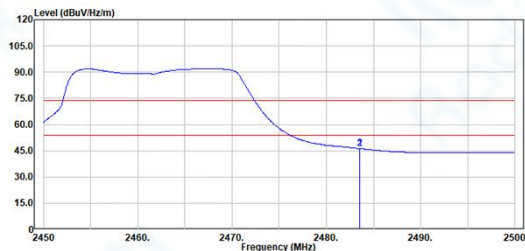
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	48.57	45.74	54.00	-8.26	Average	46.41	5.27	27.86
2 2483.550	HORIZONTAL	48.57	45.74	54.00	-8.26	Average	46.41	5.27	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH11
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	58.84	55.69	74.00	-18.31	Peak	46.65	5.19	27.86
2 2483.650	VERTICAL	59.89	56.74	74.00	-17.26	Peak	46.65	5.19	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N20_TX_CH1
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	49.86	46.23	54.00	-7.77	Average	46.41	5.27	27.86
2 2483.500	VERTICAL	49.86	46.23	54.00	-7.77	Average	46.41	5.27	27.86

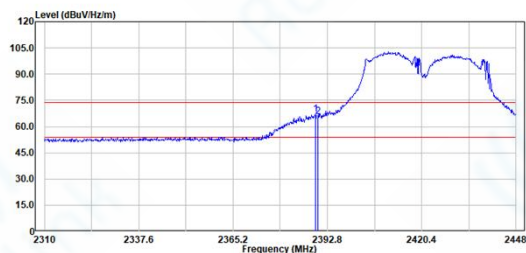


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Room 103, Building B, Jinghang Industrial Park, Area 71, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong Province, China

Tel: +86 0755 23080694

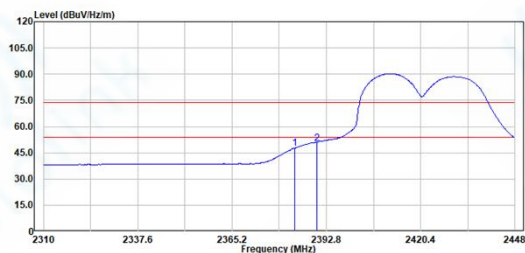
11n(40M)_TX_CH_03_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

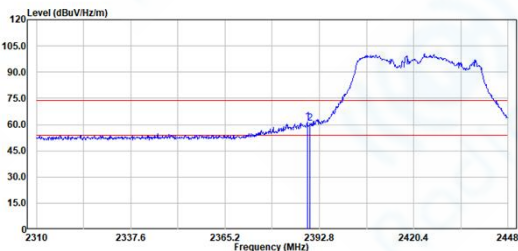
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.358	HORIZONTAL	69.42	66.08	74.00	-7.12	Peak	46.68	5.17	28.29
2 2390.000	HORIZONTAL	68.39	65.64	74.00	-8.36	Peak	46.68	5.17	28.28

11n(40M)_TX_CH_03_Horizontal-Avg



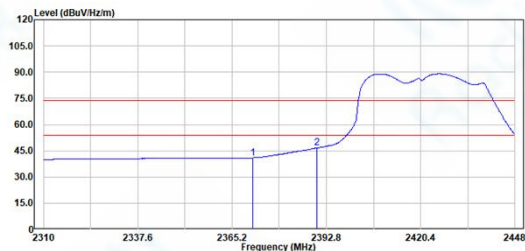
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.554	HORIZONTAL	50.00	47.62	54.00	-6.38	Average	46.43	5.24	28.33
2 2390.000	HORIZONTAL	52.52	50.09	54.00	-3.91	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

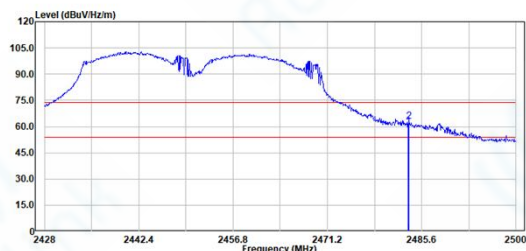
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.312	VERTICAL	64.16	61.42	74.00	-12.58	Peak	46.68	5.17	28.29
2 2390.000	VERTICAL	63.43	60.68	74.00	-13.32	Peak	46.68	5.17	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2371.272	VERTICAL	43.25	40.97	54.00	-13.03	Average	46.43	5.24	28.43
2 2390.000	VERTICAL	49.02	46.59	54.00	-7.41	Average	46.43	5.24	28.28

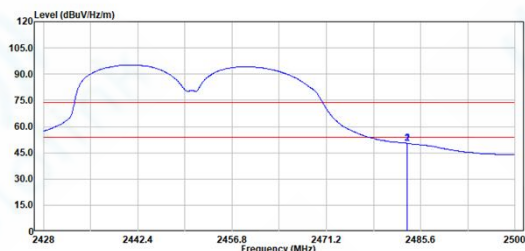
11n(40M)_TX_CH_09_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH9
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

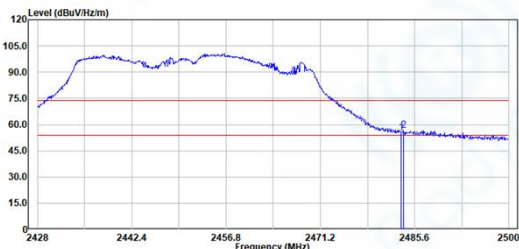
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 HORIZONTAL	63.00	59.85	74.00	-14.15	Peak	46.65	5.19	27.86
2	2483.650 HORIZONTAL	65.99	62.84	74.00	-11.16	Peak	46.65	5.19	27.86

11n(40M)_TX_CH_09_Horizontal-Avg



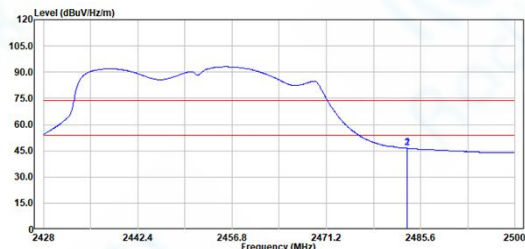
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 HORIZONTAL	53.28	50.45	54.00	-3.55	Average	46.41	5.27	27.86
2	2483.584 HORIZONTAL	53.28	50.45	54.00	-3.55	Average	46.41	5.27	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH9
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 VERTICAL	58.46	55.31	74.00	-18.69	Peak	46.65	5.19	27.86
2	2483.672 VERTICAL	59.91	56.75	74.00	-17.25	Peak	46.65	5.19	27.86

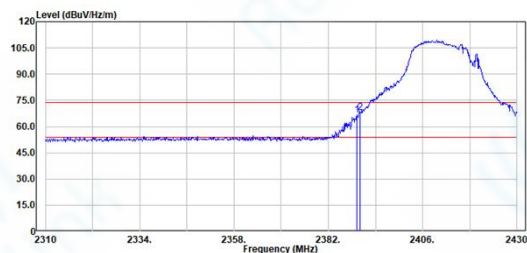


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	2483.500 VERTICAL	49.26	46.43	54.00	-7.57	Average	46.41	5.27	27.86
2	2483.512 VERTICAL	49.26	46.43	54.00	-7.57	Average	46.41	5.27	27.86



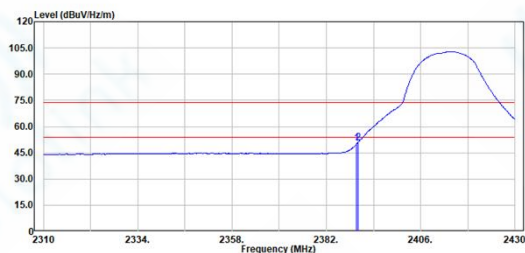
11ax(20M)_TX_CH_01_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH1
Power : 13
Rate : MCS0
Note : IMEI:358028660010991

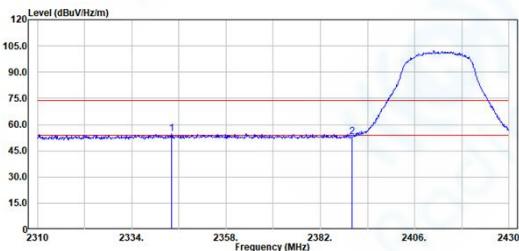
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.200	HORIZONTAL	69.37	66.63	74.00	-7.37	Peak	46.68	5.17	28.29
2 2390.000	HORIZONTAL	70.72	67.97	74.00	-6.03	Peak	46.68	5.17	28.28

11ax(20M)_TX_CH_01_Horizontal-Avg



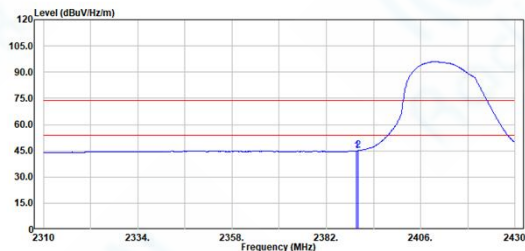
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH1
Power : 13
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.200	HORIZONTAL	52.54	50.11	54.00	-3.89	Average	46.43	5.24	28.28
2 2390.000	HORIZONTAL	53.33	50.90	54.00	-3.10	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH1
Power : 13
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.200	VERTICAL	57.31	54.88	74.00	-19.12	Peak	46.68	5.17	28.28
2 2390.000	VERTICAL	55.52	52.77	74.00	-21.23	Peak	46.68	5.17	28.28

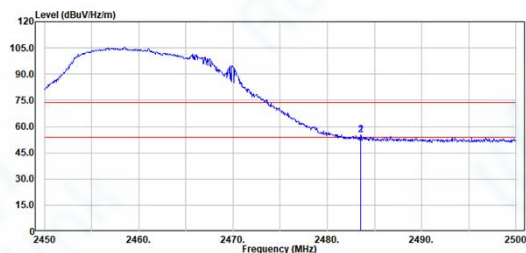


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH1
Power : 13
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.200	VERTICAL	47.31	44.88	54.00	-9.12	Average	46.43	5.24	28.28
2 2390.000	VERTICAL	47.49	45.06	54.00	-8.94	Average	46.43	5.24	28.28



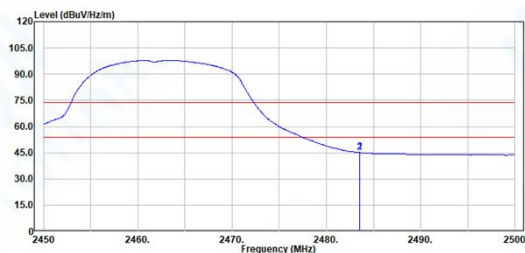
11ax(20M)_TX_CH_11_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH11
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

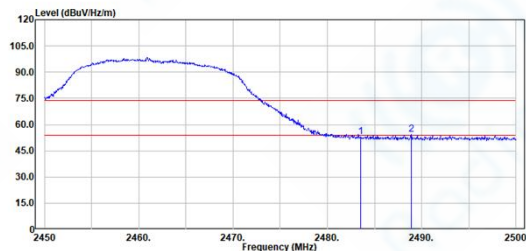
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	58.29	55.14	74.00	-18.86	Peak	46.65	5.19	27.86
2 2483.500	HORIZONTAL	58.29	55.14	74.00	-18.86	Peak	46.65	5.19	27.86

11ax(20M)_TX_CH_11_Horizontal-Avg



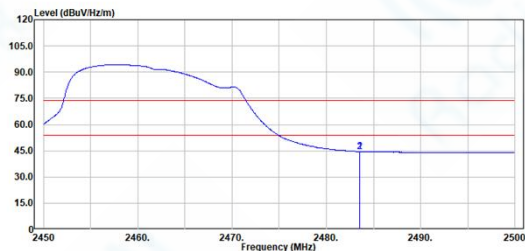
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH11
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	47.95	45.12	54.00	-8.88	Average	46.41	5.27	27.86
2 2483.500	HORIZONTAL	47.95	45.12	54.00	-8.88	Average	46.41	5.27	27.86



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH11
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	56.32	53.17	74.00	-20.83	Peak	46.65	5.19	27.86
2 2483.500	VERTICAL	57.49	54.21	74.00	-19.79	Peak	46.65	5.19	27.74



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX20_TX_CH11
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

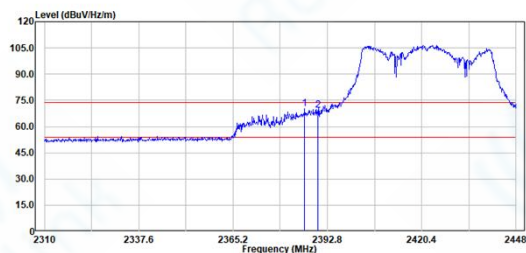
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	47.37	44.54	54.00	-9.46	Average	46.41	5.27	27.86
2 2483.500	VERTICAL	47.37	44.54	54.00	-9.46	Average	46.41	5.27	27.86

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Tel: +86 0755 23080694

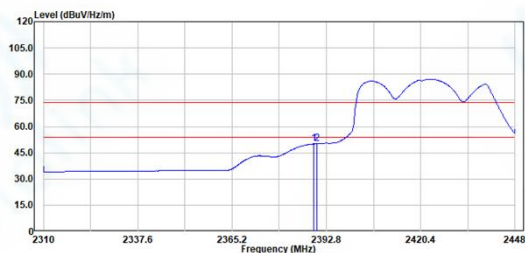
11ax(40M)_TX_CH_03_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

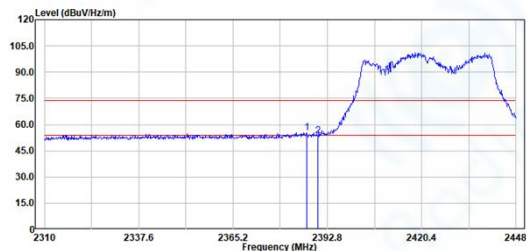
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2386.176	HORIZONTAL	72.92	70.19	74.00	-3.81	Peak	46.68	5.16	28.31
2 2390.000	HORIZONTAL	72.11	69.36	74.00	-4.64	Peak	46.68	5.17	28.28

11ax(40M)_TX_CH_03_Horizontal-Avg



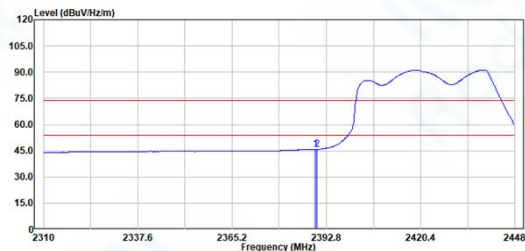
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.074	HORIZONTAL	52.50	50.00	54.00	-3.92	Average	46.43	5.24	28.29
2 2390.000	HORIZONTAL	52.61	50.18	54.00	-3.82	Average	46.43	5.24	28.28



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2386.176	VERTICAL	56.19	55.47	74.00	-18.53	Peak	46.68	5.17	28.31
2 2390.000	VERTICAL	56.12	53.37	74.00	-20.63	Peak	46.68	5.17	28.28

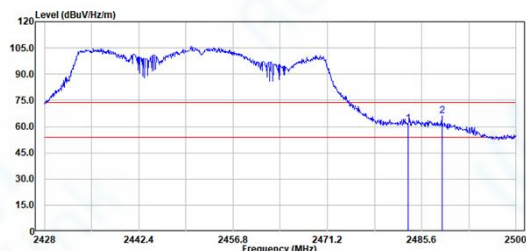


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH3
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2389.626	VERTICAL	48.22	45.79	54.00	-8.21	Average	46.43	5.24	28.28
2 2390.000	VERTICAL	48.25	45.82	54.00	-8.18	Average	46.43	5.24	28.28



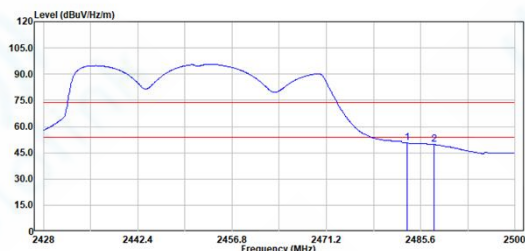
11ax(40M)_TX_CH_09_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

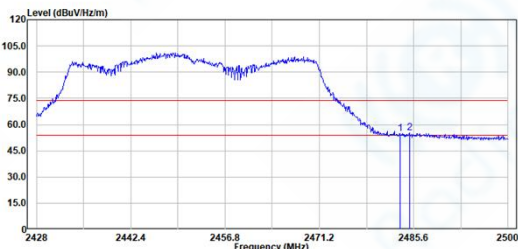
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	64.01	61.46	74.00	-12.54	Peak	46.65	5.19	27.86
2 2488.690	HORIZONTAL	69.42	66.15	74.00	-7.85	Peak	46.65	5.19	27.75

11ax(40M)_TX_CH_09_Horizontal-Avg



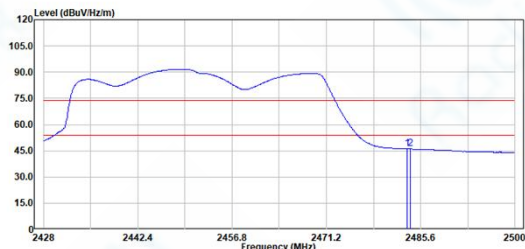
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	HORIZONTAL	53.69	50.54	54.00	-3.46	Average	46.65	5.19	27.86
2 2487.616	HORIZONTAL	52.94	49.69	54.00	-4.31	Average	46.65	5.19	27.77



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	57.81	54.66	74.00	-19.34	Peak	46.65	5.19	27.86
2 2484.952	VERTICAL	58.55	55.37	74.00	-18.63	Peak	46.65	5.19	27.83



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11AX40_TX_CH9
Power : 10
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant Loss Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2483.500	VERTICAL	48.90	46.07	54.00	-7.93	Average	46.61	5.27	27.86
2 2484.016	VERTICAL	48.92	46.08	54.00	-7.92	Average	46.61	5.27	27.85



7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
RSS-Gen Section 8.9

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

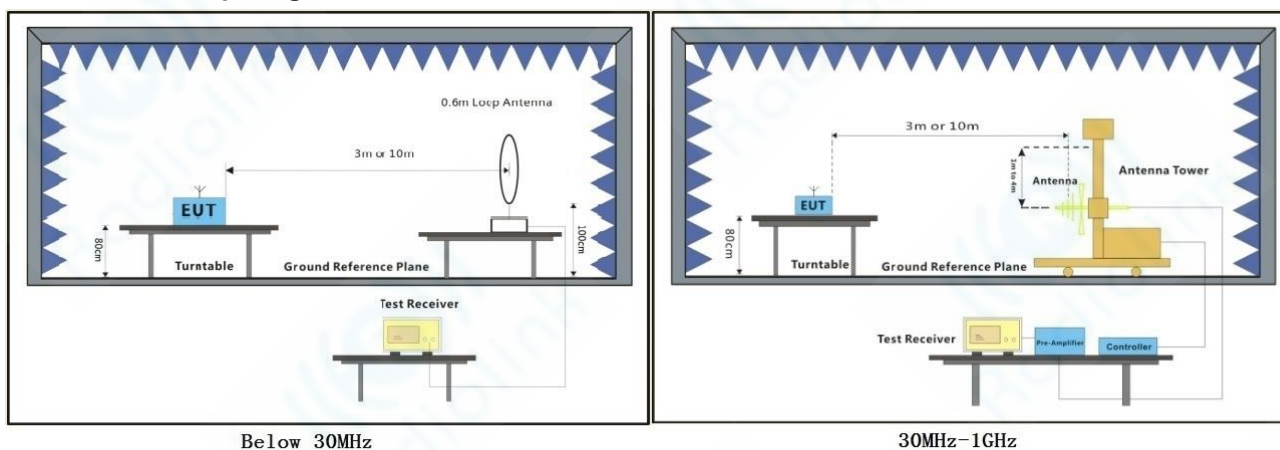
Humidity: 46.8 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

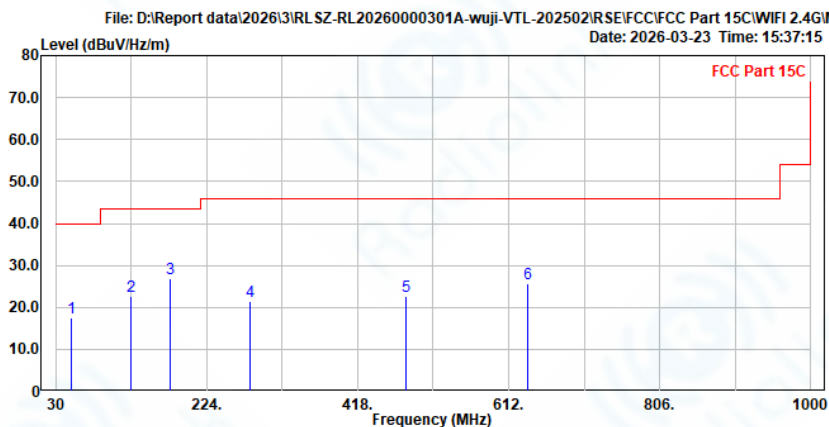
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Polarity: Horizontal



Site : chamber
Condition: FCC Part 15C 3m ANT_VULB9163-30M-1GHz-20250411-FCC HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3 LF
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

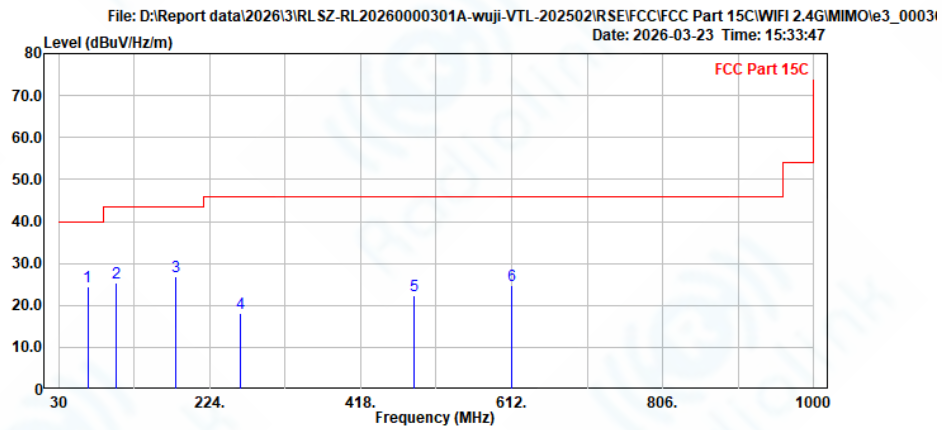
	Freq	Pol/Phase	Read Level	Limit Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
	MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	49.400	HORIZONTAL	30.37	17.49	40.00	-22.51	Peak	32.00	0.92	18.20
2	126.030	HORIZONTAL	30.26	22.54	43.50	-20.96	Peak	31.87	11.04	13.11
3	176.470	HORIZONTAL	35.19	26.90	43.50	-16.60	Peak	31.82	10.21	13.32
4	280.260	HORIZONTAL	34.75	21.51	46.00	-24.49	Peak	31.88	1.57	17.07
5	480.080	HORIZONTAL	31.47	22.52	46.00	-23.48	Peak	31.80	1.83	21.02
6	636.250	HORIZONTAL	31.85	25.68	46.00	-20.32	Peak	31.90	2.26	23.47



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Polarity: Vertical



Site : chamber
Condition: FCC Part 15C 3m ANT_VULB9163-30M-1GHz-20250411-FCC VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G_11N40_TX_CH3 LF
Power : 11
Rate : MCS0
Note : IMEI:358028660010991

	Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
	MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	66.860	VERTICAL	40.91	24.37	40.00	-15.63	Peak	32.00	0.93	14.53
2	103.720	VERTICAL	35.87	25.48	43.50	-18.02	Peak	31.90	5.98	15.53
3	180.350	VERTICAL	36.17	26.98	43.50	-16.52	Peak	31.82	9.12	13.51
4	262.800	VERTICAL	31.66	18.20	46.00	-27.80	Peak	31.86	1.55	16.85
5	485.900	VERTICAL	31.13	22.28	46.00	-23.72	Peak	31.80	1.83	21.12
6	612.000	VERTICAL	31.06	24.72	46.00	-21.28	Peak	31.90	2.23	23.33



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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
RSS-Gen Section 8.9

Test Method: ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

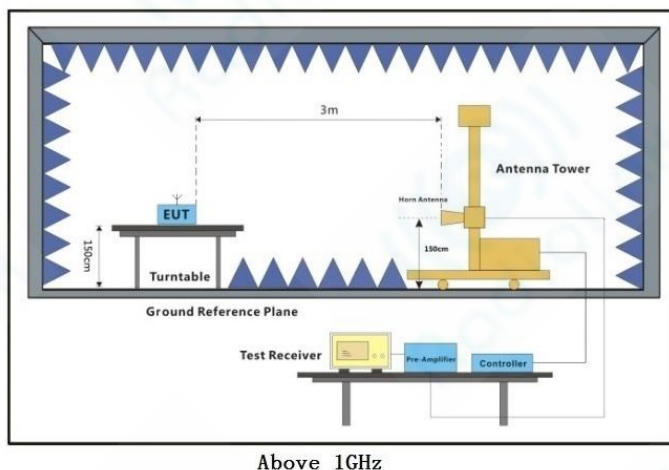
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Mode Code	Description
1	TX mode_Keep the EUT in continuously transmitting mode.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

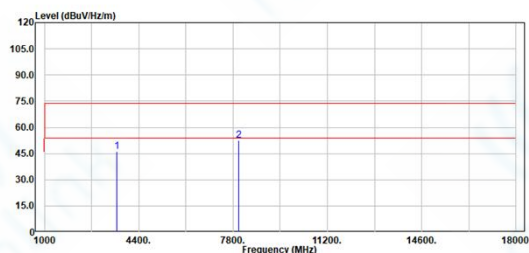


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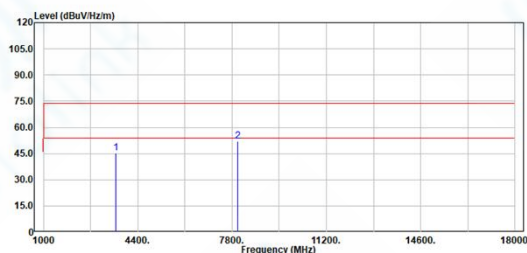
11b_TX_CH_01_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

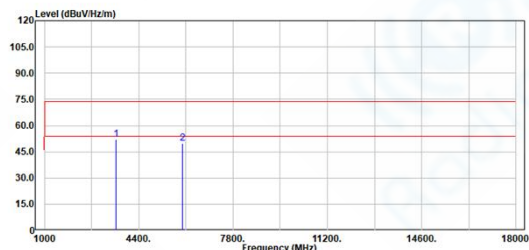
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	3596.750 HORIZONTAL	45.61	46.33	74.00	-27.67	Peak	46.42	5.49	30.14
2	7991.250 HORIZONTAL	39.18	52.75	74.00	-21.25	Peak	47.28	11.95	37.42

11b_TX_CH_06_Horizontal



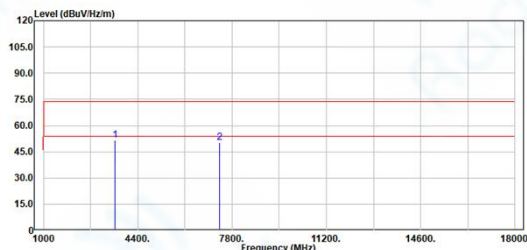
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 6
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	3596.750 HORIZONTAL	44.59	45.31	74.00	-28.69	Peak	46.42	5.49	30.14
2	7991.250 HORIZONTAL	38.41	51.98	74.00	-22.02	Peak	47.28	11.95	37.42



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 1
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	3585.000 VERTICAL	51.75	52.15	74.00	-21.85	Peak	46.44	5.51	29.98
2	5982.000 VERTICAL	44.94	49.97	74.00	-24.03	Peak	47.05	6.51	33.37



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 6
Power : 19
Rate : 1M
Note : IMEI:358028660010991

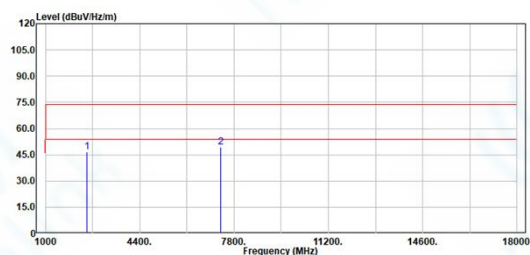
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	3585.000 VERTICAL	51.26	51.68	74.00	-22.34	Peak	46.44	5.51	29.98
2	7345.000 VERTICAL	37.29	50.33	74.00	-23.67	Peak	47.59	11.15	37.57

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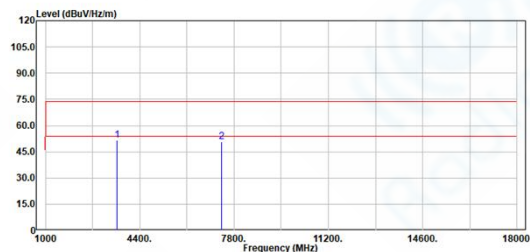
Tel: +86 0755 23080694

11b_TX_CH_11_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 2486.000	VERTICAL	49.62	46.75	74.00	-27.25 Peak	46.41	5.28	27.61
2 7326.000	VERTICAL	37.20	49.52	74.00	-24.48 Peak	47.50	11.10	37.00



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11b_Ch 11
Power : 19
Rate : 1M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Limit Level	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 3585.000	VERTICAL	51.83	51.43	74.00	-22.57 Peak	46.44	5.51	29.90
2 7345.000	VERTICAL	37.86	50.90	74.00	-23.10 Peak	47.59	11.15	37.57

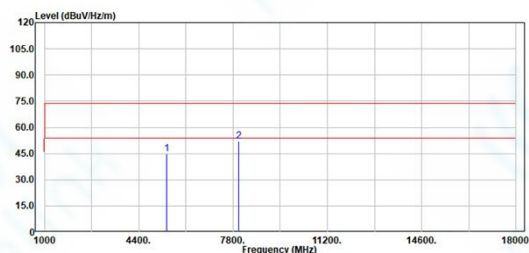


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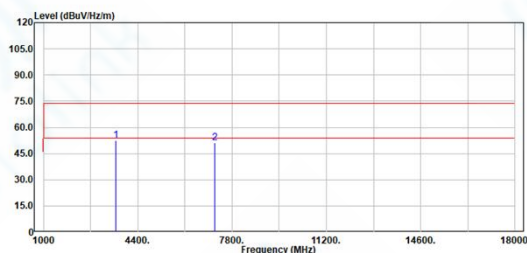
11g_TX_CH_01_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 1
Power : 19
Rate : 6M
Note : IMEI:358028660010991

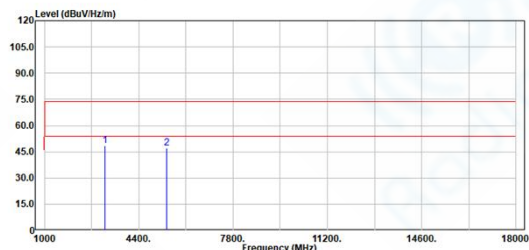
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5394.500	HORIZONTAL	41.70	44.71	74.00	-29.29	Peak	46.40	7.15	32.62
2 7991.250	HORIZONTAL	38.30	51.07	74.00	-22.13	Peak	47.28	11.95	37.42

11g_TX_CH_06_Horizontal



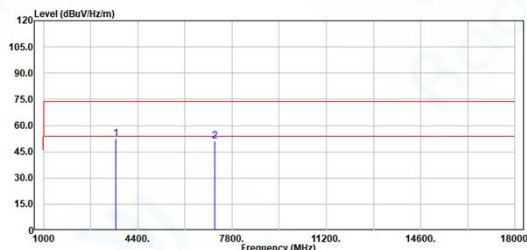
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 6
Power : 19
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 3596.750	HORIZONTAL	51.76	52.48	74.00	-21.52	Peak	46.42	5.49	30.14
2 7180.500	HORIZONTAL	39.70	50.98	74.00	-23.02	Peak	47.51	10.72	37.36



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 1
Power : 19
Rate : 6M
Note : IMEI:358028660010991

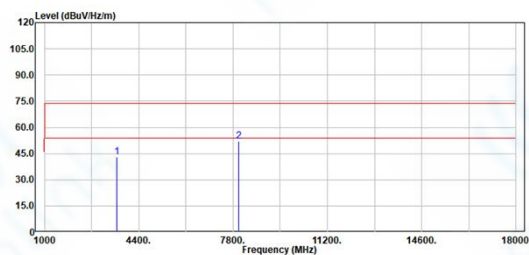
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5394.500	VERTICAL	47.52	48.39	74.00	-25.61	Peak	46.40	5.46	29.36
2 7991.250	VERTICAL	44.13	47.14	74.00	-26.86	Peak	46.40	7.15	32.62



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 6
Power : 19
Rate : 6M
Note : IMEI:358028660010991

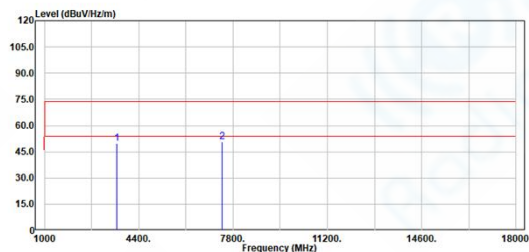
Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 3596.750	VERTICAL	51.76	52.48	74.00	-21.52	Peak	46.42	5.49	30.14
2 7180.500	VERTICAL	39.70	50.98	74.00	-23.02	Peak	47.51	10.72	37.36

11g_TX_CH_11_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 11
Power : 19
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 3596.750	HORIZONTAL	42.22	42.94	74.00	-31.06	Peak	46.42	5.49	30.14
2 7991.250	HORIZONTAL	38.57	52.14	74.00	-21.86	Peak	47.28	11.95	37.42



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11g_Ch 11
Power : 19
Rate : 6M
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 3596.750	VERTICAL	49.12	49.84	74.00	-24.16	Peak	46.42	5.49	30.14
2 7992.000	VERTICAL	37.94	50.09	74.00	-23.91	Peak	47.01	11.20	36.69

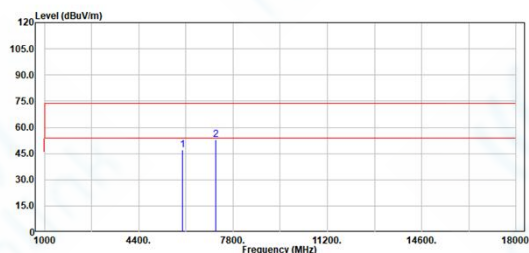


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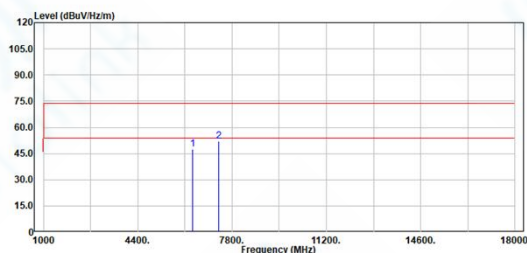
11n(20M)_TX_CH_01_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 1
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

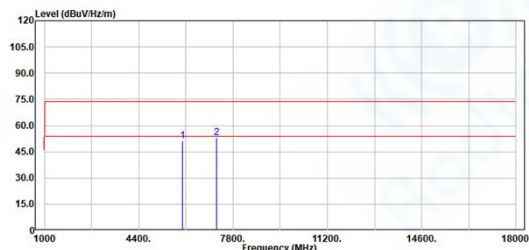
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV	dBuV/m	dBuV/m	dB		dB	dB	dB/m
1 5982.000	HORIZONTAL	41.17	47.31	74.00	-26.69	Peak	47.19	9.76	33.37
2 7198.500	HORIZONTAL	41.55	52.92	74.00	-21.08	Peak	47.75	11.07	37.96

11n(20M)_TX_CH_06_Horizontal



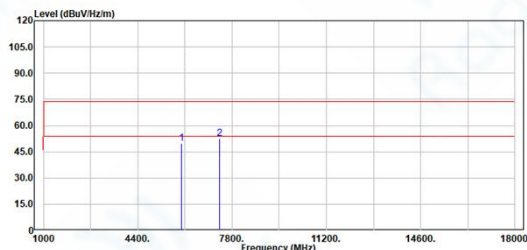
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 6
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV	dBuV/m	dBuV/m	dB		dB	dB	dB/m
1 6381.500	HORIZONTAL	39.47	47.49	74.00	-26.51	Peak	47.19	9.36	34.79
2 7321.500	HORIZONTAL	39.73	52.12	74.00	-21.88	Peak	47.56	11.31	36.96



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 1
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5982.000	VERTICAL	45.06	51.20	74.00	-22.80	Peak	47.19	9.76	33.37
2 7198.250	VERTICAL	41.46	52.92	74.00	-21.08	Peak	47.74	11.09	37.98

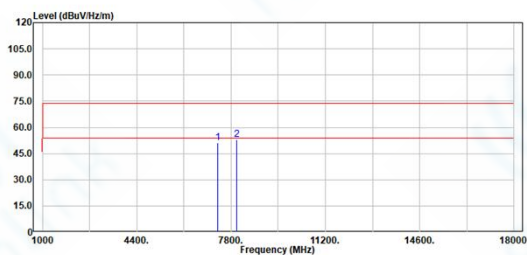


Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 6
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1 5982.000	VERTICAL	43.85	49.99	74.00	-24.01	Peak	47.19	9.76	33.37
2 7345.000	VERTICAL	39.28	52.58	74.00	-21.42	Peak	47.55	11.35	37.57

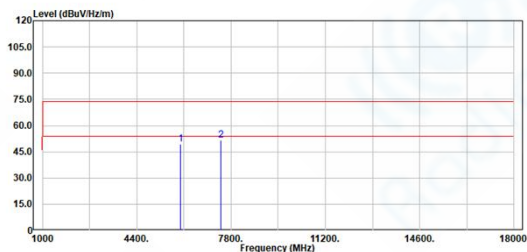


11n(20M)_TX_CH_11_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 11
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 7321.500	HORIZONTAL	38.73	51.12	74.00	-22.88	Peak	47.56	11.31	36.96
2 8003.000	HORIZONTAL	39.86	53.16	74.00	-20.84	Peak	47.45	11.91	37.43



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N20_Ch 11
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit Line	Over Limit	Remark	Preamp Factor	Cable Loss	Ant Factor
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB/m	
1 5982.000	VERTICAL	43.44	49.58	74.00	-24.42	Peak	47.19	9.76	33.37
2 7439.000	VERTICAL	36.55	51.51	74.00	-22.49	Peak	47.40	11.51	37.20

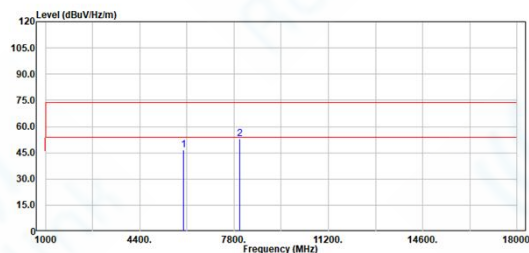


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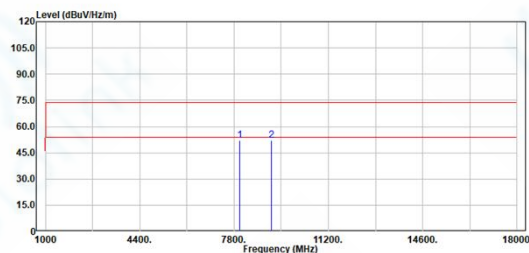
11n(40M)_TX_CH_03_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N40_Ch 3
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

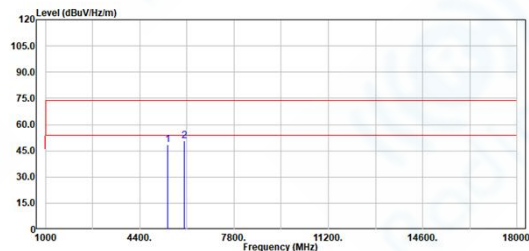
Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5982.000 HORIZONTAL	40.31	46.45	74.00	-27.55	Peak	47.19	9.76	33.37
2	7991.250 HORIZONTAL	39.67	53.02	74.00	-20.98	Peak	47.45	11.90	37.42

11n(40M)_TX_CH_06_Horizontal



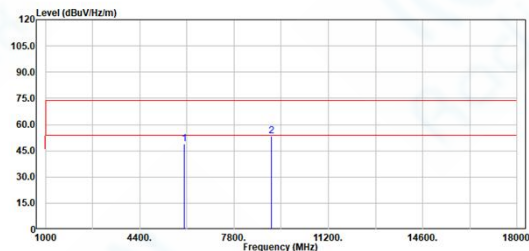
Site : chamber
Condition: 3m HORIZONTAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N40_Ch 7
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	7991.250 HORIZONTAL	38.67	52.02	74.00	-21.98	Peak	47.45	11.90	37.42
2	9154.500 HORIZONTAL	35.34	52.23	74.00	-21.77	Peak	47.22	13.30	39.06



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N40_Ch 3
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	5982.000 VERTICAL	44.96	48.43	74.00	-25.57	Peak	46.55	7.76	32.62
2	7991.250 VERTICAL	44.66	50.69	74.00	-23.31	Peak	47.21	9.81	33.33



Site : chamber
Condition: 3m VERTICAL
EUT : VTL-202502
Mode : WIFI 2.4G TX_11N40_Ch 7
Power : 19
Rate : MCS0
Note : IMEI:358028660010991

Freq	Pol/Phase	Read Level	Level	Limit	Over	Remark	Preamp Factor	Cable Loss Factor	Ant
MHz		dBuV/H	dBuV/H	dBuV/H	dB		dB	dB	dB/m
1	7991.250 VERTICAL	42.90	48.93	74.00	-25.07	Peak	47.21	9.81	33.33
2	9154.500 VERTICAL	36.68	53.57	74.00	-20.43	Peak	47.22	13.30	39.06