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TEST REPORT

47 CFR Part 15, Subpart E 15.407

Report Reference No.....: CTL2507222076-WF04M1

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Product Name.....: Car Diagnostic Tool

Model/Type reference.....: DS600 BT

List Model(s).....: Refer the page 2

Trade Mark.....: ANCEL

FCC ID.....: 2ASC7DS600BT

Applicant's name.....: OBDSpace Technology Co., Ltd

Address of applicant.....: Room D03, Building A, No.973, MinZhi Avenue LongHua district,
Shenzhen City, China

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,
Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: 47 CFR Part 15, Subpart E 15.407: General technical
requirements.

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of receipt of test item.....: Aug 20, 2025

Date of Test Date.....: Aug 20, 2025-Jan 12, 2026

Date of Issue.....: Jan 13, 2026

Result.....: Pass

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TEST REPORT

Test Report No. :	CTL2507222076-WF04M1	Jan 13, 2026 Date of issue
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Equipment under Test : Car Diagnostic Tool

Sample No : CTL2507222076

Model /Type : DS600 BT

Listed Models : DS610 BT, DS620 BT, DS630 BT, DS640 BT, DS650 BT,
DS660 BT, DS670 BT, DS680 BT, DS690 BT, DS600
Elite, DS610 Elite, DS620 Elite, DS630 Elite, DS640
Elite, DS650 Elite, DS660 Elite, DS670 Elite, DS680
Elite, DS690 Elite

Applicant : **OBDSPACE TECHNOLOGY CO.,LTD**

Address : Room D03, Building A, No.973, MinZhi Avenue LongHua
district, Shenzhen City, China

Manufacturer : **OBDSPACE TECHNOLOGY CO.,LTD**

Address : Room D03, Building A, No.973, MinZhi Avenue LongHua
district, Shenzhen City, China

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

** Modified History **

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1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR Part 15, Subpart E](#)—Unlicensed National Information Infrastructure Devices

[ANSI C63.10: 2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB789033 D02](#): General UNII Test Procedures New Rules v02r01

1.2. Test Description

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS

Note 1: Apply to Band1, Band2A, Band2C only.

Note 2: Apply to BAND3 only.

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9618B

CAB identifier: CN0041

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power Radiated	±2.20 dB	(1)
Radiated Emission 9KHz~30MHz	±3.66dB	(1)
Radiated Emission 30~1000MHz	±4.08dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Emission Bandwidth	±1.9%	(1)
Maximum Conduct Output Power	± 1.18 dB	(1)
Power Spectral Density	±0.98 dB	(1)
Band Edge	±1.21dB	(1)
Unwanted Emissions	9kHz-7GHz: ±1.09dB 7GHz-26.5GHz: ±3.27dB	(1)

Frequency Stability	$\pm 1.9\%$	(1)
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(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

1.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

☐	Adapter	Manufacturer :	SHENZHEN FUJIA APPLIANCE CO., LTD
☐		Model No. :	FJ-SW1260502600UN

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	Car Diagnostic Tool			
Model/Type reference:	DS600 BT			
Power supply:	DC 3.8V from battery			
Working voltage:	Type-C Input: 5V $\pm$ 2.5A Battery: 3.8V, 4150mAh			
5G Wi-Fi :				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	802.11n 802.11ac	802.11ac	N/A
Operation frequency:	5150 - 5250MHz 5745 - 5825MHz	5190-5230MHz 5755MHz-5795MHz	5210MHz 5775MHz	N/A
Modulation:	OFDM	OFDM	OFDM	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
TPC:	Not support			
MIMO	Not support			
Antenna type:	FPC Antenna			
Antenna gain:	5G_Band 1: 3.43dBi 5G_Band 3: 3.80dBi			

Note1: For more details, please refer to the user's manual of the EUT.

Note2: Antenna gain provided by the applicant.

Note3: This report is based on test report CTL2507222076-WF04 with the following modifications.

Description of modify and/or change(s):

1. Add the series model.

2. Add an OBD port.

For the above described modification(s) the following testing are considered to be necessary:.

Modification	Testing	Comments	Result
1	N/A	No additional tests needed	N/A
2	Yes	47 CFR Part 15, Subpart C 15.207, 47 CFR Part 15, Subpart C 15.109/ 15.205/ 15.209	PASS

History of amendment and modifications:

Ref. No. CTL2507222076-WF04, dated September 17, 2025(original test report);

Ref. No. CTL2507222076-WF04M1, dated January 13, 2026(1st modification);

2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

All test performed at the low, middle and high of operational frequency range of each mode.

Operation Frequency List Wi-Fi on 5G Band:

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII 3 (5725MHz-5850MHz)	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825				

Note:

1. "--"Means no channel(s) available any more.
2. The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power Power Spectral Density Emission Bandwidth(26dBm Bandwidth) Minimum Emission Bandwidth(6dBm Bandwidth) Undesirable emission Frequency Stability	11a/OFDM	6 Mbps
	11n(20MHz), 11ac(20MHz)/OFDM, 11ax(20MHz)/OFDM	MCS0
	11n(40MHz), 11ac(40MHz)/OFDM, 11ax(40MHz)/OFDM	MCS0
	11n(80MHz), 11ac(80MHz)/OFDM, 11ax(80MHz)/OFDM	MCS0

2.4. Equipments Used during the Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2025/04/29	2026/04/28
	LISN	R&S	ESH2-Z5	860014/010	2025/04/29	2026/04/28
	Limitator	ROHDE & SCHWARZ	ESH3-Z2	100408	2025/04/29	2026/04/28
Software:						
Name of Software:				Version:		
ES-K1				V1.71		

Radiated Emissions and Band Edge					
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Active Loop Antenna	Da Ze	ZN30900A	/	2024/04/30	2027/04/29
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	2023/02/13	2026/02/12
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2024/11/25	2027/11/24
Horn Antenna	Ocean Microwave	OBH1004 00	26999002	2024/12/21	2027/12/20
Amplifier	Agilent	8449B	3008A02306	2025/05/01	2026/04/30
Amplifier	Brief&Smart	LNA-4018	2104197	2024/04/30	2026/04/29
EMI Test Receiver	R&S	ESCI	1166.5950.03	2025/04/29	2026/04/28
Spectrum Analyzer	Keysight	N9020A	MY53420874	2025/04/29	2026/04/28
Test software					
Name of Software			Version		
EZ_EMG(Below 1GHz)			V1.1.4.2		
EZ_EMG(Above 1GHz)			V1.1.4.2		

Maximum Peak Output Power & 20dB Bandwidth & Frequency Separation & Number of hopping frequency & Dwell Time & Out-of-band Emissions					
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Spectrum Analyzer	Keysight	N9020A	MY53420874	2025/04/29	2026/04/28
Temperature/Humidity Meter	Ji Yu	MC501	/	2025/05/06	2026/05/05
High frequency power meter	Agilent	E4419B	GB4331787	2025/04/29	2026/04/28
Test Software					

Name of Software	Version
TST-PASS	V2.0

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emissions Test

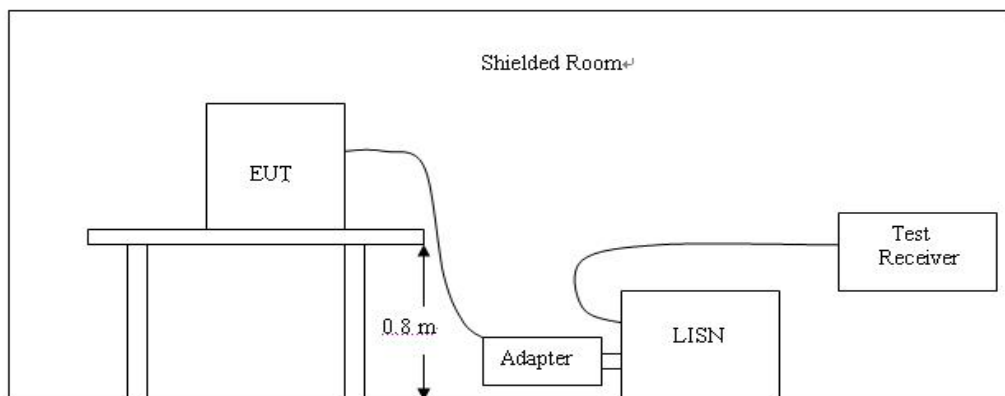
LIMIT

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a Laser Projector system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2020.
2. Support equipment, if needed, was placed as per ANSI C63.10:2020.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

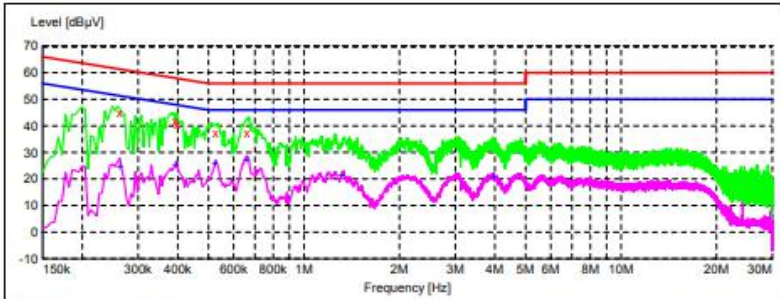
TEST RESULTS

Remark: Pre-scan allmodesofIEEE802.11a/n(HT20)/ac(VHT20)/n (HT40)/ac(VHT40)/ac(VHT80)/at Low, Middle, and High channel ;only the worst result of was reported as below:

Test Mode	802.11n 5180MHz	Line:	L
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SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



***MES CTL260112136_fin

MEASUREMENT RESULT: "CTL260112136_fin"

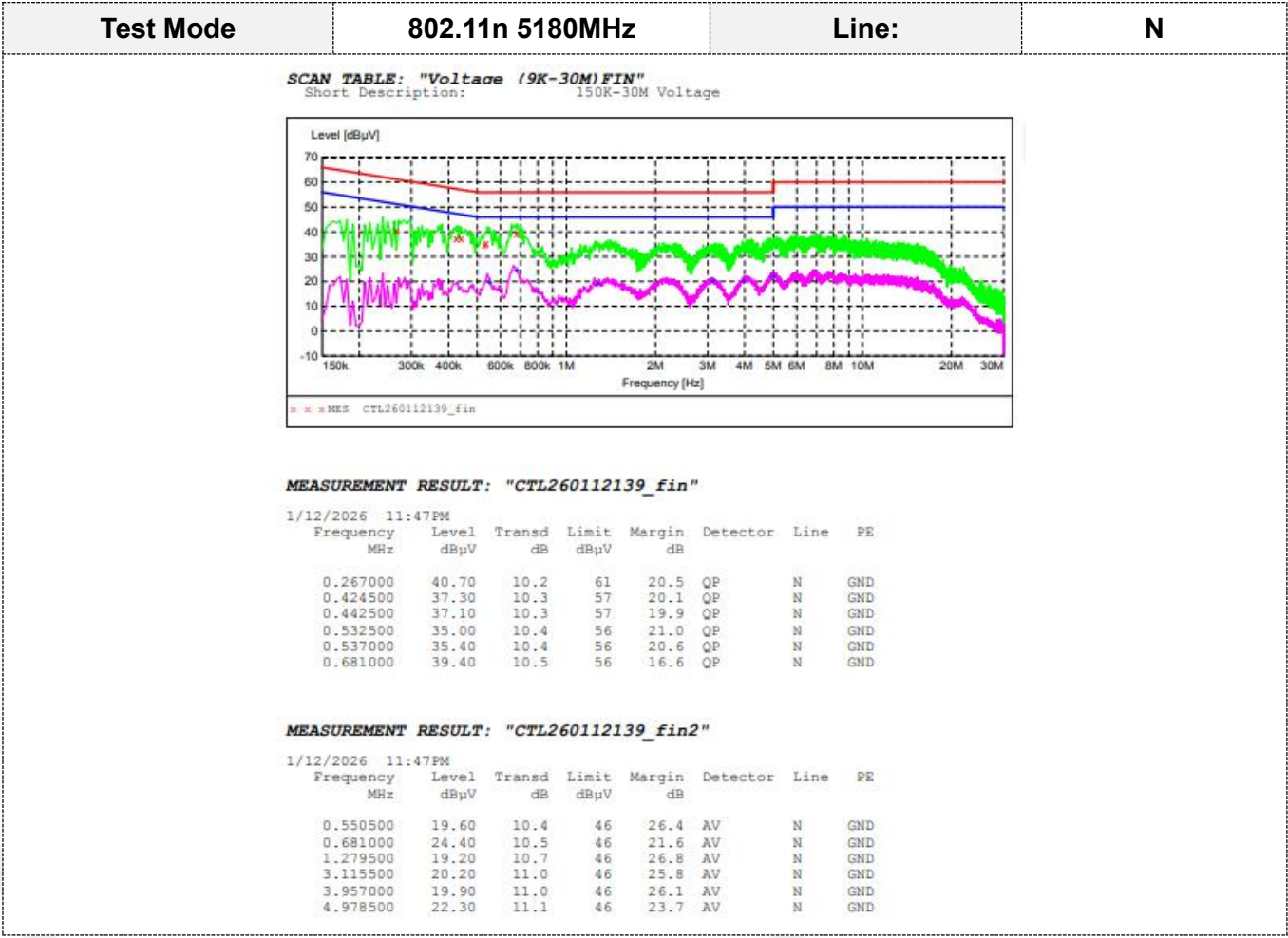
1/12/2026 11:38PM

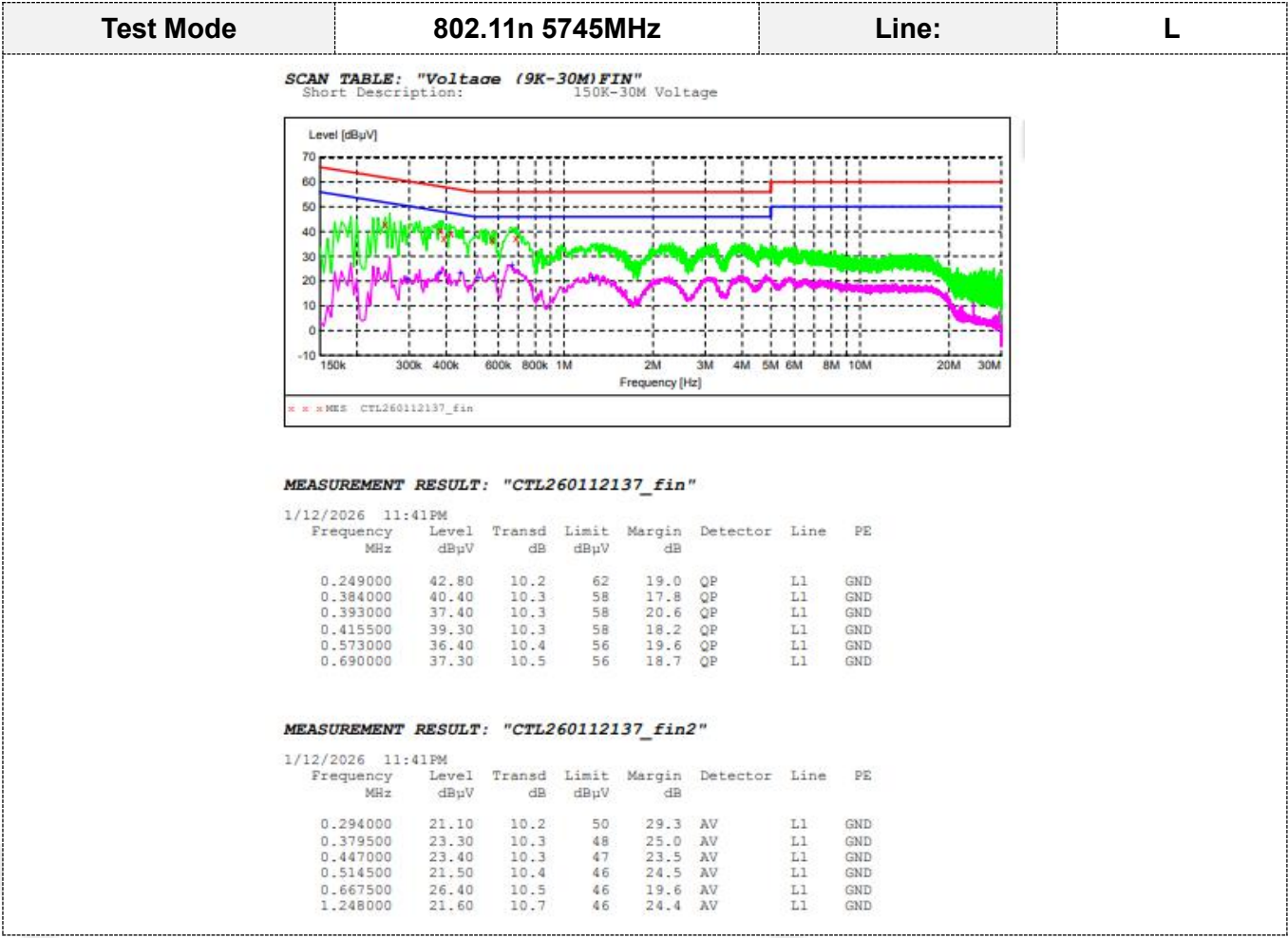
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.262500	44.60	10.2	61	16.8	QP	L1	GND
0.393000	41.60	10.3	58	16.4	QP	L1	GND
0.397500	40.40	10.3	58	17.5	QP	L1	GND
0.528000	37.30	10.4	56	18.7	QP	L1	GND
0.663000	37.20	10.5	56	18.8	QP	L1	GND

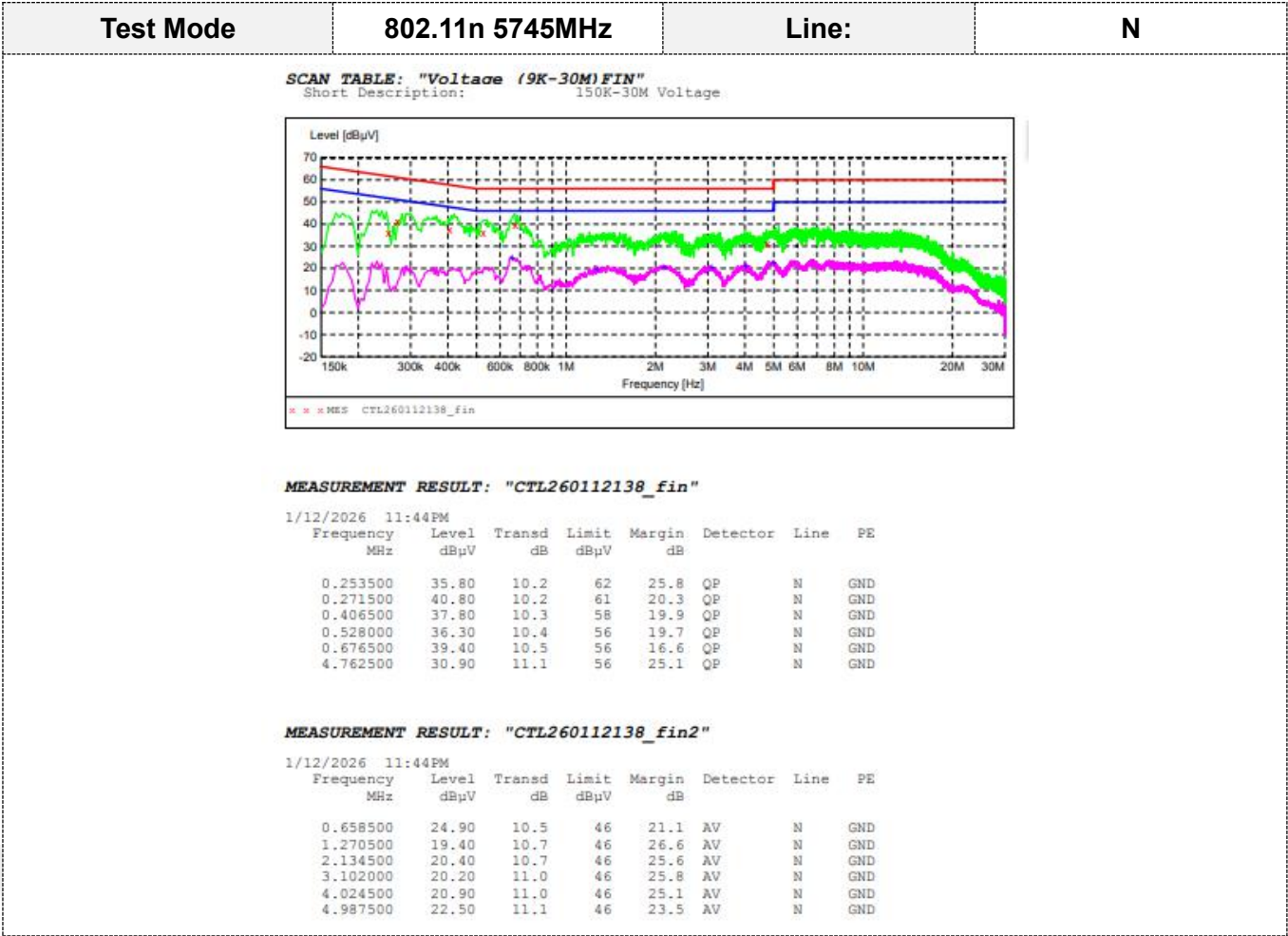
MEASUREMENT RESULT: "CTL260112136_fin2"

1/12/2026 11:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.262500	24.50	10.2	51	26.9	AV	L1	GND
0.393000	25.50	10.3	48	22.5	AV	L1	GND
0.523500	25.80	10.4	46	20.2	AV	L1	GND
0.658500	27.10	10.5	46	18.9	AV	L1	GND
1.311000	21.50	10.7	46	24.5	AV	L1	GND
3.957000	21.10	11.0	46	24.9	AV	L1	GND







Remark: Level(dBuV)=Reading(dBuV) + Transd.(dB)
Margin=Limit(dBuV)- Level(dBuV)

3.2. Radiated Emissions

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) ^{Note1}
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

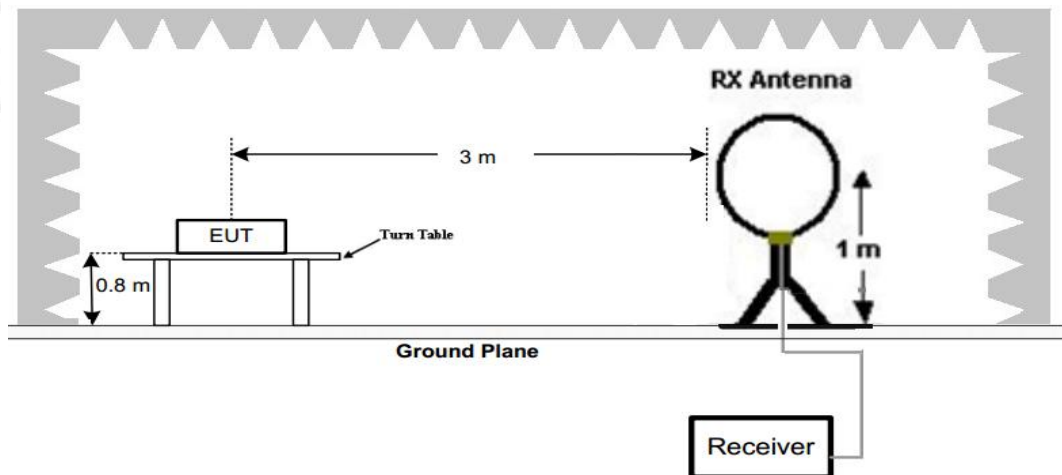
- (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
- (6) In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

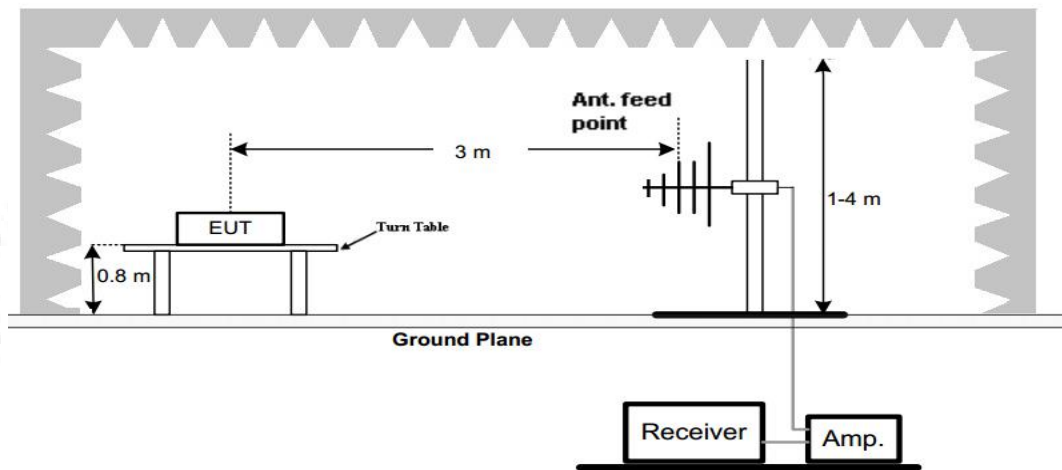
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

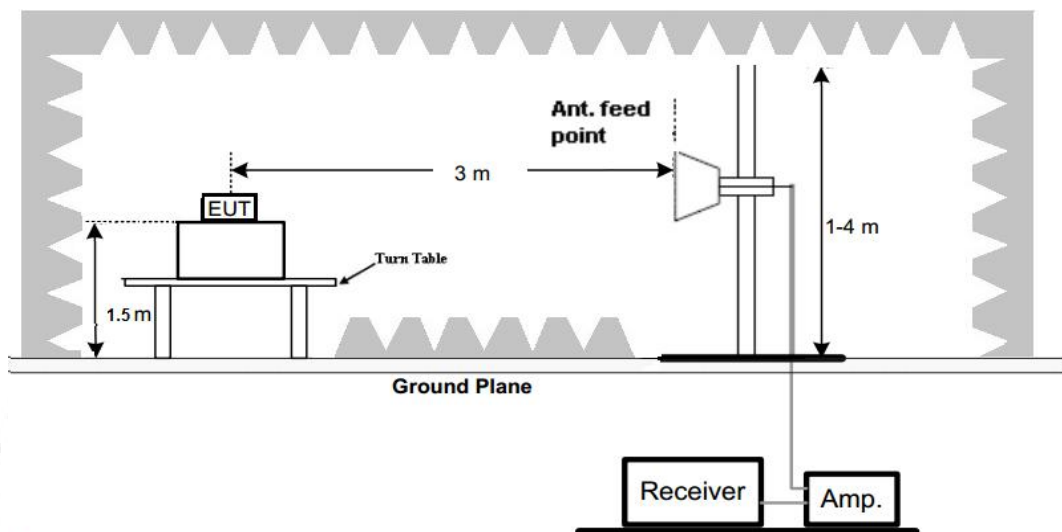
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 40GHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Antennna	1

- Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

Remark:

- All IEEE802.11a/n(HT20)/ac(VHT20)/ax(HEW20)/n(HT40)/ac(VHT40)/ax(HEW40)/ac(VHT80)/ax(HEW80) modes have been tested for below 1GHz test, only the worst case 802.11n(HT20)low channel of U-NII 1 band was recorded.
- All IEEE802.11a/n(HT20)/ac(VHT20)/n (HT40)/ac(VHT40)/ac(VHT80)/modes have been tested for above 1GHz test, only the worst case IEEE 802.11(HT20) was recorded.
- All WIFI operation modes have been tested for U-NII 3 bandedge test, only the worst case of 802.11ac20 mode was recorded.
- Radiated emission test from 9 KHz to10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

Wi-Fi

802.11n 5180MHz

Horizontal

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Unit 01A&B&C&D-1, Building A3, Guangming Sci-Tech Park, Guan Guang Road, Fenghu

File :RF

Data :#631

Date : 2026/01/12

Time : 22:02:09

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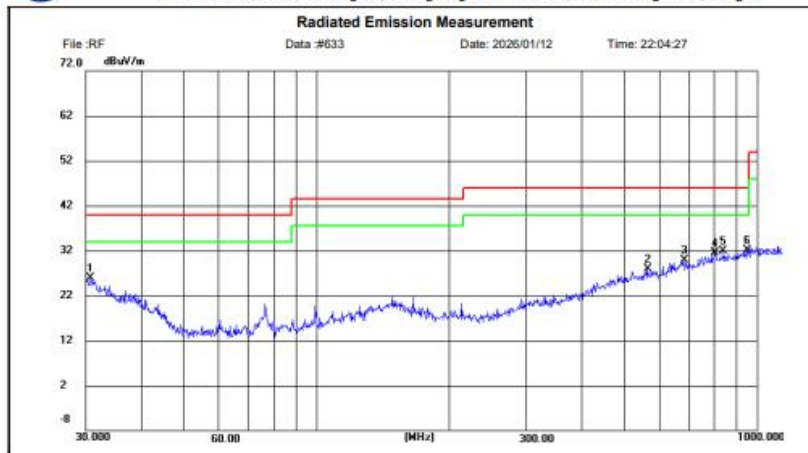
Wi-Fi

802.11n 5745MHz

Horizontal



Shenzhen CTL Testing Technology Co., Ltd
Tel: +86-755-89486194
Unit 01A&B&C&D-1, Building A3, Guangming Sci-Tech Park, Guan Guang Road, Fenghu



Site: LAB Chamber 1

Polarization: **Horizontal**

Temperature: 25(C)

Limit: FCC Part15 Class C_30-1000MHz

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N:

Mode: WIFI5.8G 5745MHz

Note: CTL2507222076-WFM1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.7454	6.25	19.73	25.98	40.00	14.02	peak	100	96	P	
2	564.6388	6.34	21.52	27.86	46.00	18.14	peak	100	243	P	
3	682.3484	6.95	22.93	29.88	46.00	16.12	peak	100	123	P	
4	804.6027	6.88	24.60	31.48	46.00	14.52	peak	100	243	P	
5	836.2443	7.17	24.79	31.96	46.00	14.04	peak	100	105	P	
6	952.0937	6.29	25.80	32.09	46.00	13.91	peak	100	288	P	

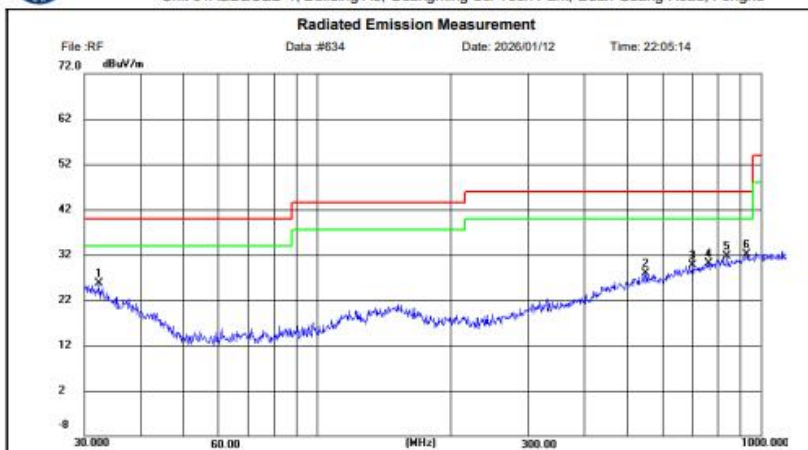
Wi-Fi

802.11n 5745MHz

Vertical



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Site: LAB Chamber 1

Polarization: **Vertical**

Temperature: 25(C)

Limit: FCC Part15 Class C_30-1000MHz

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N:

Mode: WIFI5.8G 5745MHz

Note: CTL2507222076-WFM1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.4059	6.61	19.07	25.68	40.00	14.32	peak	100	15	P	
2	550.9480	6.68	21.24	27.92	46.00	18.08	peak	100	43	P	
3	701.7610	6.60	23.10	29.70	46.00	16.30	peak	100	225	P	
4	763.3757	5.98	24.10	30.08	46.00	15.92	peak	100	335	P	
5	839.1818	7.03	24.67	31.70	46.00	14.30	peak	100	61	P	
6	925.7563	6.18	25.92	32.10	46.00	13.90	peak	100	125	P	

4. Test Setup Photos of the EUT

Reference to the test report No. CTL2507222076-WF01M1

5. Photos of the EUT

Reference to the test report No. CTL2507222076-WF01M1

***** End of Report *****