# **FCC RADIO TEST REPORT**

ELO TOUCH SOLUTIONS, INC. Applicant

670 N. McCarthy Blvd., Suite 100 Milpitas, CA Address

95035 USA

Equipment Touch All-in-One Computer

Model No. ESY15I1E-C

**Trade Name** 

RBWESY15I1EC FCC ID

#### I HEREBY CERTIFY THAT:

The sample was received on Jun. 27, 2024 and the testing was completed on Aug. 24, 2024 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





Report No.: 24060472-TRFCC07

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. 1 of 39

Sep. 30, 2024 Issued Date :

FCC ID. RBWESY15I1EC

# **Contents**

1.	Sum	nmary of Test Procedure and Test Results	4
	1.1	Applicable Standards	4
2.	Test	t Configuration of Equipment under Test	5
	2.1	Feature of Equipment under Test	5
	2.2	Test Mode and Test Software	7
	2.3	Description of Test System	9
	2.4	General Information of Test	10
	2.5	Measurement Uncertainty	11
3.	Test	t Equipment and Ancillaries Used for Tests	12
4.	Test	t of AC Power Line Conducted Emission	13
	4.1	Test Limit	13
	4.2	Test Procedures	13
	4.3	Typical Test Setup	14
	4.4	Test Result and Data	15
	4.5	Test Photographs	21
5.	Test	t of Spurious Emission (Radiated)	22
	5.1	Test Limit	22
	5.2	Test Procedures	23
	5.3	Typical Test Setup	23
	5.4	Test Result and Data (9kHz ~ 30MHz)	25
	5.5	Test Result and Data (30MHz ~ 1GHz)	25
	5.6	Test Result and Data (1GHz ~ 40GHz)	31
	5.7	Restricted Bands of Operation	37
	5.8	Test Photographs (30MHz ~ 1GHz)	38
	5.9	Test Photographs (1GHz ~ 40GHz)	30

T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024

Page No. : 2 of 39

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC

# History of this test report

Report No.	Issued Date	Description
24060472-TRFCC07	Sep. 30, 2024	Original

Cerpass Technology Corp. T-FD-503-0 Ver 1.6 Issued Date : Sep. 30, 2024
Page No. : 3 of 39

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC

# 1. Summary of Test Procedure and Test Results

# 1.1 Applicable Standards

#### ANSI C63.10:2013

. Description of Test	Result
. CO-LOCATION	PASS

<sup>\*</sup>The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

Report No.: 24060472-TRFCC07

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 4 of 39 FCC ID. : RBWESY15I1EC

Issued Date :

Sep. 30, 2024

# 2. Test Configuration of Equipment under Test

# 2.1 Feature of Equipment under Test

	BT / BLE: 2400-2483.5MHz
	WLAN:802.11b/g/n/ax: 2400-2483.5MHz
Operation Fraguency Bongs	5GHz:802.11a/n/ac/ax:5150-5250MHz, 5250-5350MHz,
Operation Frequency Range	5470-5725MHz, 5725-5875MHz
	6GHz: 802.11a/ax: 5925MHz~6425MHz, 6425MHz~6525MHz
	6525MHz~6875MHz, 6875MHz~7125MHz
	BT / BLE: 2402MHz-2480MHz
	WLAN:802.11b/g/n/ax: 2412MHz-2462MHz
Center Frequency Range	5GHz:802.11a/n/ac/ax:5180-5240MHz, 5260-5320MHz,
	5500-5720MHz, 5745-5825MHz
	6GHz: 802.11a/ax: 5955MHz~6415MHz, 6435MHz~6515MHz
	6535MHz~6855MHz, 6875MHz~7115MHz BT: GFSK, π /4-DQPSK, 8DPSK
	BLE: GFSK
	WLAN:
	2.4GHz:
	802.11b: CCK, DQPSK, DBPSK
	802.11g/n: BPSK, QPSK, 16QAM, 64QAM
Mark tages Torre	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Type	5GHz:
	802.11a/n: BPSK, QPSK, 16QAM, 64QAM
	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	6GHz
	802.11a: BPSK, QPSK, 16QAM, 64QAM
	802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	DSSS, OFDM, FHSS, DTS, OFDMA
	BT:
	GFSK: 1Mbps, $\pi$ /4-DQPSK: 2Mbps, 8DPSK: 3Mbps
	BLE:
	GFSK: 1Mbps, 2Mbps WLAN:
	2.4GHz:
	802.11b: 1, 2, 5.5, 11Mbps
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
Data Rate	802.11ax: MCS0 – MCS11, HE20/40
	5GHz:
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n: MCS0 – MCS15, HT20/40
	802.11ac: MCS0 – MCS9, VHT20/40/80/160
	802.11ax: MCS0 – MCS11, HE20/40/80/160
	6GHz
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
A. C. C. T. C.	802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	PIFA Antenna

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 5 of 39

FCC ID. : RBWESY15I1EC

Sep. 30, 2024

Issued Date :

Report No.: 24060472-TRFCC07

	For BT / BLE:
	2400-2500MHz: ANT A: 1.97dBi
	For WLAN:
	2400-2500MHz: ANT A: 1.97dBi, ANT B: 1.82dBi
	5150-5250MHz: ANT A: 2.73dBi, ANT B: 2.11dBi
Antenna Gain	5250-5350MHz: ANT A: 2.73dBi, ANT B: 2.54dBi
7 (Interina Gairi	5470-5725MHz: ANT A: 2.35dBi, ANT B: 2.4dBi
	5725-5850MHz: ANT A: 2.4dBi, ANT B: 2.34dBi
	5925~6425MHz:ANT A: 2.07dBi, ANT B: 2.48dBi
	6425~6525MHz:ANT A: 1.77dBi, ANT B: 1.79dBi
	6525~6875MHz:ANT A: 2.43dBi, ANT B: 2.37dBi
	6875~7125MHz:ANT A: 2.24dBi, ANT B: 2.19dBi
Adapter	Brand: Delta
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Model: ADP-150EH B
Adapter	Brand: Delta
7 (Sup 10)	Model: ADP-65JH HB
Adapter	Brand: Billion
7 (Sup 10)	Model: BA070-190342MBX
Adapter	Brand: FSP
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Model: FSP150-AABN3
Power cord (US)	Brand: I-SHENG
	Model: V44VS336T1218000-A01
Power cord (EU)	Brand: I-SHENG
(=0)	Model: EU85B300S121800
USBC-POS-STAND	Brand: ELO
	Model: KIT, Z30-POS-Stand-CFD-Gen 2-15
USBC-POS-STAND	Brand: ELO
	Model: KIT, Z30-POS-STAND-GEN2-15
USBC-IO-HUB	Brand: ELO
	Model: USBC-IO-HUB-POWER-BARICK-V2
Panel	Brand: AUO
	Model: A156HAN01.1
Panel	Brand: BOE
	Model: PV156FHM-N30
Noto:	

#### Note:

- 1. EUT support TPC Function.
- 2. EUT supports DFS Client Mode, without radar detection.
- 3. WLAN and BT can simultaneously transmission.
- 4. The device not support Channel Puncturing or Bandwidth Reduction mechanisms supported 5.802.11ax EUT only Support Full RU
- 6. EUT Operating mode: Indoor Client
- 7. For more details, please refer to the User's manual of the EUT.

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 RBWESY15I1EC FCC ID.

Page No. 6 of 39

Sep. 30, 2024

Issued Date :

Report No.: 24060472-TRFCC07

#### 2.2 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program, "QRCT ver.4.0.211.0" under Windows OS system was executed to transmit and receive data via Bluetooth.
- d. An executive program, "QRCT ver.4.0.211.0" under Windows OS system was executed to transmit and receive data via WLAN.

Report No.: 24060472-TRFCC07

e. The following test modes were performed for the test:

test modes were performed for the test.			
Conducted Emissions from the AC mains power ports			
ode Operating Description			
BT GFSK CH39 + 2.4G 11ax20 CH06 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 2.4G 11ax20 CH06 With Adapter (AC240V/60Hz)			
BT GFSK CH39 + 5G 11ax20 CH157 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 5G 11ax20 CH157 With Adapter (AC240V/60Hz)			
BT GFSK CH39 + 6E 11ax160 CH207 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 6E 11ax160 CH207 With Adapter (AC240V/60Hz)			
t Mode 1,3,5" generated the worst case, it was reported as the final data.			
nissions (9KHz ~30MHz & 30MHz ~ 1GHz)			
Operating Description			
BT GFSK CH39 + 2.4G 11ax20 CH06 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 2.4G 11ax20 CH06 With Adapter (AC240V/60Hz)			
BT GFSK CH39 + 5G 11ax20 CH157 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 5G 11ax20 CH157 With Adapter (AC240V/60Hz)			
BT GFSK CH39 + 6E 11ax160 CH207 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 6E 11ax160 CH207 With Adapter (AC240V/60Hz)			
t Mode 1,3,5" generated the worst case, it was reported as the final data.			
Radiation Emissions (1GHz ~ 40GHz)			
Test Mode Operating Description			
BT GFSK CH39 + 2.4G 11ax20 CH06 With Adapter (AC120V/60Hz)			
BT GFSK CH39 + 5G 11ax20 CH157 With Adapter (AC120V/60Hz)			
3 BT GFSK CH39 + 6E 11ax160 CH207 With Adapter (AC120V/60Hz)			
caused "Test Mode 1-3" generated the worst case, it was reported as the final data.			

Note:1. There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission: SISO ANT/ MIMO ANT	V	
Radiation Emissions (Below 1GHz) : SISO ANT/ MIMO ANT	V	

Cerpass Technology Corp.Issued Date : Sep. 30, 2024T-FD-503-0 Ver 1.6Page No. : 7 of 39

FD-503-0 Ver 1.6 Page No. : 7 of 39 FCC ID. : RBWESY15I1EC



#### CERPASS TECHNOLOGY CORP.

2.The EUT has Four types of Adapters. After engineering evaluation, For AC Power Line Conducted Emission, FSP150-AABN3 is worst case.

For Radiated Spurious Emission(9kHz~30MHz,30MHz~1GHz), ADP-65JH is worst case.

For Radiated Spurious Emission(1GHz~40GHz), ADP-150EH B is worst case., hence, are

used at test report

adda at toot report				
Adoptor	Brand: Delta			
Adapter	Model: ADP-150EH B			
Adaptor	Brand: Delta			
Adapter	Model: ADP-65JH HB			
Adapter	Brand: Billion			
	Model: BA070-190342MBX			
Adoptor	Brand: FSP			
Adapter	Model: FSP150-AABN3			

Report No.: 24060472-TRFCC07

3. There are two types of Panels: AUO&BOE. After engineering evaluation, AUO is worst case, hence, is used at test report.

	Brand: AUO
Donal	Model: A156HAN01.1
Panel	Brand: BOE
	Model: PV156FHM-N30

4. The EUT has Two types of USBC-POS-STANDS. After engineering evaluation, For AC Power Line Conducted Emission, KIT, Z30-POS-STAND-GEN2-15 is worst case. For Radiated Spurious Emission(9kHz~30MHz,30MHz~1GHz), none-docking is worst case. For Radiated Spurious Emission(1GHz~40GHz), KIT, Z30-POS-STAND-CFD-Gen 2-15 is worst case., hence, are used at test report

	USBC-POS-STAND	Brand: ELO Model: KIT, Z30-POS-Stand-CFD-Gen 2-15			
		Wodel. Kiri, 250-i OS-Stand-Or D-Gen 2-15			
	USBC-POS-STAND	Brand: ELO			
		Model: KIT, Z30-POS-STAND-GEN2-15			

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 8 of 39 FCC ID. : RBWESY15I1EC

Issued Date:

Sep. 30, 2024

# 2.3 Description of Test System

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Micro USB(Blue)	kolin	KEX-DLCP07	1m / NS	N/A
Flash*4	TranScend	USB3.0 3GB	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Micro USB(White)	kolin	KEX-DLCP07	1m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Cash Drawer	PARTNER	5E415	1.8m / NS	N/A
TYPE-C(Blue)	kolin	KEX-DLCP08	1m / NS	N/A
Flash*4	TranScend	USB3.0 3GB	N/A	N/A
Power USB Panel Type - 24V	TAIMING	Power USB	1.8m / NS	N/A

Cerpass Technology Corp. T-FD-503-0 Ver 1.6 Issued Date : Sep. 30, 2024
Page No. : 9 of 39

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC

## 2.4 General Information of Test

	Cerpass Technology Corporation Test Laboratory					
	Addres	Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848,				
	Taiwar	Taiwan (R.O.C.)				
	Tel: +8	Tel: +886-3-3226-888				
	Fax: +8	Fax: +886-3-3226-881				
	FCC	TW1439, TW1079				
	IC	4934E-1, 4934E-2				
Frequency Range Investigated		cted: from 150kHz to 30 MHz on: from 30 MHz to 40,000MHz				
Test Distance	The tes	st distance of radiated emission from antenna to EUT is 3 M.				

Report No.: 24060472-TRFCC07

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
Radiated Emissions	3M02-NK	2024/08/08	21.8°C / 46%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2024/08/23	25.3°C / 53%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2024/08/24	26.5°C / 43%	Leon Huang

Cerpass Technology Corp. T-FD-503-0 Ver 1.6 Issued Date : Sep. 30, 2024
Page No. : 10 of 39

FCC ID. : RBWESY15I1EC

## 2.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Report No.: 24060472-TRFCC07

#### 2.4G/5G

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz

#### 6E

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.7dB
Radiated Spurious Emission(1GHz~40GHz)	±6.8dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%
Frequency Stability	±0.21KHz

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 11 of 39 FCC ID. : RBWESY15I1EC

# 3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions									
Test Site	Semi Anechoic Room(3M02-NK)									
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date					
Bilog Antenna	Schwarzbeck	VULB9168	369	2024/02/19	2025/02/18					
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2024/01/16	2025/01/15					
Horn Antenna	EMCO	3115	31589	2024/02/26	2025/02/25					
Horn Antenna	EMCO	3116	31974	2023/10/16	2024/10/15					
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12					
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	101329	2024/07/16	2025/07/15					
Preamplifier	Agilent	8449B	3008A01954	2024/03/01	2025/02/28					
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2023/10/13	2024/10/12					
Preamplifier	EM Electronics corp.	EM330	60659	2024/02/17	2025/02/16					
Cable-6m(9k~300M)	N/A	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12					
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2024/02/23	2025/02/22					
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2024/03/05	2025/03/04					
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2024/03/05	2025/03/04					
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2024/03/05	2025/03/04					
Cable-1m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	804398/2	2023/10/12	2024/10/11					
Cable-3m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	804619/2	2023/10/12	2024/10/11					
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA					
Highpass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2024/07/03	2025/07/02					
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2024/03/11	2025/03/10					
Hipass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2024/03/11	2025/03/10					

Test Item	AC Power Line Conducted Emission								
Test Site	CON02-NK								
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date				
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12				
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2023/08/28	2024/08/27				
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127516	2023/10/03	2024/10/02				
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2024/03/01	2025/02/28				
Cable-6m(9k~300M)	N/A	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12				
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA				

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 12 of 39

RBWESY15I1EC FCC ID.

Sep. 30, 2024

Issued Date :

Report No.: 24060472-TRFCC07

#### 4. Test of AC Power Line Conducted Emission

#### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Report No.: 24060472-TRFCC07

Sep. 30, 2024

Issued Date:

Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 4.2 Test Procedures

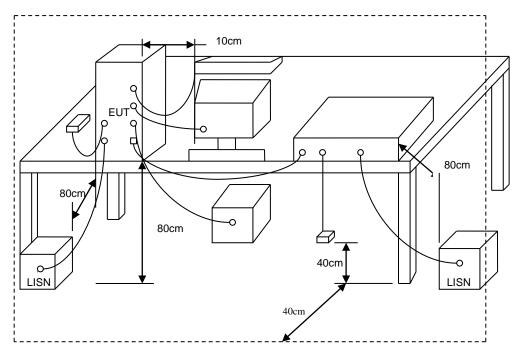
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 13 of 39 FCC ID. : RBWESY15I1EC



# 4.3 Typical Test Setup



T-FD-503-0 Ver 1.6

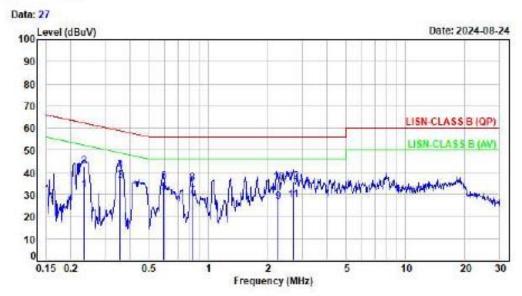
Issued Date : Sep. 30, 2024
Page No. : 14 of 39

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC

#### 4.4 Test Result and Data

Test Mode : 2TX 11ax20 CH06+BT 1TX CH39 1Mbps Voltage : From Adapter(AC 120V/60Hz) Phose : Line



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2331	9.92	22.01	31.93	52.34	-20.41	Average	P
2	0.2331	9.92	32.81	42.73	62.34	-19.61	QP .	P
3	0.3560	9.93	26.19	36.12	48.82	-12.78	Average	P
4	0.3560	9.93	30.84	40.77	58.82	-18.05	QP .	P
5	0.5924	9.93	20.83	30.76	45.00	-15.24	Average	P
6	0.5924	9.93	25.63	35.56	56.00	-20.44	QP	P
7	0.8312	9.95	19.16	29.11	46.00	-16.89	Average	P
8	0.8312	9.95	25.20	35.15	56.00	-20.85	QP	P
9	2.2559	10.02	16.72	26.74	45.00	-19.26	Average	P
10	2.2559	10.02	25.50	35.52	56.00	-20.48	QP	P
11	2.6866	10.84	17.33	27.37	46.00	-18.63	Average	P
12	2.6866	10.04	25.55	35.59	56.00	-20.41	QP	P

Note: Level=Reading+Factor Margin-Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 15 of 39

Issued Date : Sep. 30, 2024

Report No.: 24060472-TRFCC07

RBWESY15I1EC FCC ID.

CERPASS TECHNOLOGY CORP. Report No.: 24060472-TRFCC07

Test Mode : 2TX 11ax20 CH06+BT 1TX CH39 1Mbps

0.5

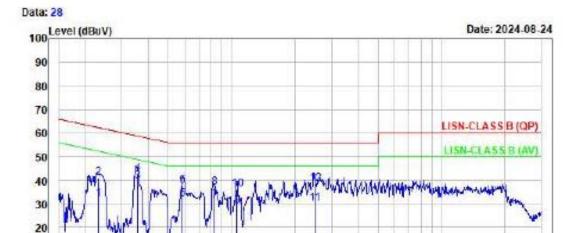
1

Voltage : From Adapter(AC 120V/60Hz)

Phase : Neutral

10

0.15 0.2



P/F Frequency Factor Reading Level Limit Margin Detector (MHz) (dB) (dBuV) (dBuV) (dBuV) 1 0.2313 9.94 22.07 32.01 52.40 -20.39 Average 0.2313 9.94 31.01 40.95 62.49 -21,45 OP P 2 -9.34 P 0.3558 9.96 39,49 29,53 48.83 Average 0.3558 9.96 32.67 42.63 58.83 -16.20 OP P 9.96 5 0.5840 21.90 31.86 46.00 -14.14 Average 9.96 P 6 0.5840 27.85 37.81 56.00 -18.19 QP 0.8300 9.98 21.07 31.05 46.00 -14.95 Average 8 0.8300 9.98 56.00 -19.01 OP P 27.01 36.99 P -17.00 9 1.0652 9.99 19.01 29.00 46.00 Average 10 1.0652 9.99 26.08 36.07 56.00 -19.93 OP P p 11 2.4902 46.00 -15.95 10.04 20.01 30.05 Average -17.53 P 12 2.4902 10.04 28.43 38.47 56.00 OP

2

Frequency (MHz)

10

Issued Date :

Sep. 30, 2024

20

30

Note: Level-Reading+Factor Margin=Level-Limit

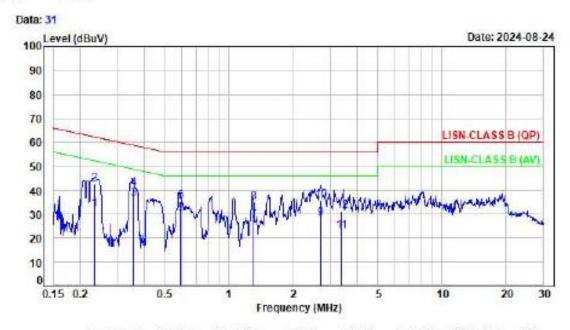
Factor-(LISM or ISM or Current Probe)Factor + Cable Loss

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 16 of 39 FCC ID. : RBWESY15I1EC

Test Mode : 2TX 11ax20 CH157+BT 1TX CH39 1Mbps

Voltage : From Adapter(AC 120V/60Hz) Phase : Line



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2331	9.92	21.99	31.91	52.34	-20.43	Average	P
2	0.2331	9.92	32.75	42.67	62.34	-19.57	QP .	P
3	0.3553	9.93	26.57	36.50	48.84	-12.34	Average	P
4	0.3553	9.93	30.86	40.79	58.84	-18.85	QP	P
5	0.5937	9.93	20.17	30.10	46.00	-15.98	Average	P
6	0.5937	9.93	25.60	35.53	55.00	-20.47	QP .	P
7	1.3031	9.98	17.31	27.29	46,98	-18.71	Average	P
8	1.3031	9.98	24.85	34.83	55.00	-21.17	QP'	P
9	2.6879	10.04	17.95	27.99	46.00	-18.01	Average	P
10	2.6879	10.04	25.82	35.86	55.00	-20.14	QP	P
11	3.3853	10.06	12.67	22.73	46.00	-23.27	Average	P
12	3.3853	10.86	21.30	31.36	55.00	-24.54	QP	P

Note: Level=Reading+Factor Margin-Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Cerpass Technology Corp.

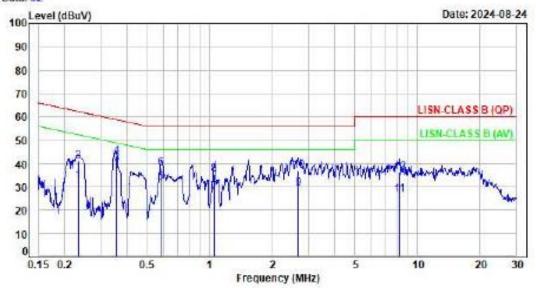
T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024 Page No. : 17 of 39

RBWESY15I1EC FCC ID.

Test Mode : 2TX 11ax20 CH157+BT 1TX CH39 1Mbps Voltage : From Adapter(AC 120V/60Hz) Phase : Neutral

#### Data: 32



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2328	9.94	22.51	32.45	52.35	-19.90	Average	p
2	0.2328	9.94	31.02	40.96	62.35	-21.39	QP	p
3	0.3554	9.96	29.81	39.77	48.83	-9.06	Average	P
4	0.3554	9.96	32.88	42.84	58.83	-15.99	QP .	P
5	0.5840	9.96	21.88	31.76	46.88	-14.24	Average	P
6	0.5840	9.96	27.88	37.84	55.00	-18.16	QP .	P
7	1.0507	9.99	17.66	27.65	46.00	-18.35	Average	P
8	1.0507	9.99	25.51	35.50	55.00	-20.50	QP	P
9	2.6732	10.06	19.04	29.10	46.00	-16.98	Average	P
10	2.6732	10.06	26.95	37.01	55.00	-18.99	QP	P
11	8.1862	10.26	16.36	26.62	50.00	-23.38	Average	P
12	8.1862	10.26	25.93	36.19	60.00	-23.81	QP	P

Note: Level=Reading+Factor

Margin-Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Cerpass Technology Corp.

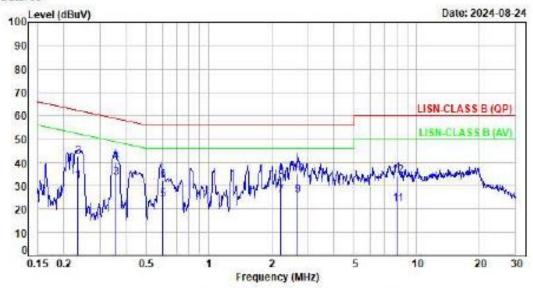
T-FD-503-0 Ver 1.6 Page No. 18 of 39 RBWESY15I1EC FCC ID.

Issued Date :

Sep. 30, 2024

Test Mode : 2TX 11ax160 CH207+BT 1TX CH39 1Mbps Voltage : From Adapter(AC 120V/60Hz) Phase : Line

#### Data: 35



No.	Frequency (NHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2335	9.92	22.06	31.98	52.32	-20.34	Average	P
2	0.2335	9.92	32.75	42.67	62.32	-19.65	QP	P
3	0.3582	9.93	23.72	33.65	48.77	-15.12	Average	P
4	0.3582	9.93	29.92	39.85	58.77	-18.92	QP	P
5	0.5979	9.94	14.08	24.02	46.80	-21.98	Average	P
6	8.5979	9.94	22.40	32.34	56.00	-23.66	QP	P
7	2.2226	10.02	16.62	26.04	46.00	-19.96	Average	P
8	2.2226	10.02	23.77	33.79	56.00	-22.21	QP	P
9	2.6702	10.04	15.76	25.88	46.88	-20.20	Average	P
16	2.6702	10.04	25.03	35.07	56.00	-20.93	QP	P
11	8.0452	18.26	11.88	22.14	50.00	-27.86	Average	P
12	8.0452	10.26	24.18	34.36	60.00	-25.64	QP	P

Note: Level=Reading+Factor

Margin-Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

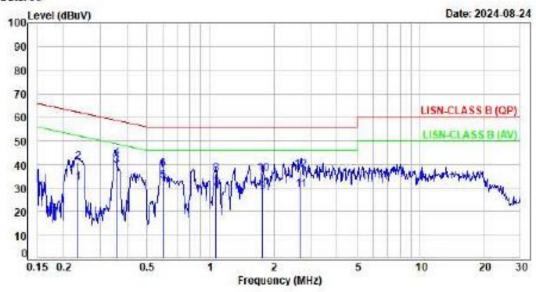
Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 19 of 39 RBWESY15I1EC FCC ID.

Test Mode : 2TX 11ax160 CH207+8T 1TX CH39 1Mbps

Voltage : From Adapter(AC 120V/60Hz) Phase : Neutral





No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2330	9.94	22.52	32.46	52.34	-19.88	Average	P
2	0.2330	9.94	30.98	40.92	62.34	-21.42	QP	P
3	0.3558	9.96	29.59	39.55	48.83	-9.28	Average	P
4	0.3558	9.96	32.81	42.77	58.83	-16.06	QP	P
5	0.5931	9.96	23.15	33.11	46.00	-12.89	Average	P
6	0.5931	9.96	28.18	38.14	56.00	-17.86	QP	P
7	1.0666	9.99	19.59	29.58	46.00	-16.42	Average	P
8	1.0666	9.99	26.13	36.12	56.00	-19.88	QP	P
9	1.7769	10.02	18.21	28.23	46.00	-17.77	Average	P
10	1.7769	10.02	26.16	36.18	56.00	-19.82	QP	P
11	2.6825	10.06	19.38	29.44	46.00	-16.56	Average	P
12	2.6825	10.06	27.50	37.56	56.00	-18.44	QP	P

Note: Level-Reading+Factor Margin=Level-Limit

Factor-(LISM or ISM or Current Probe)Factor + Cable Loss

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024

Page No. 20 of 39

RBWESY15I1EC FCC ID.



# 5. Test of Spurious Emission (Radiated)

#### 5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

Cerpass Technology Corp. T-FD-503-0 Ver 1.6

Page No. : 22 of 39

Issued Date:

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC

Sep. 30, 2024

#### 5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

Report No.: 24060472-TRFCC07

Sep. 30, 2024

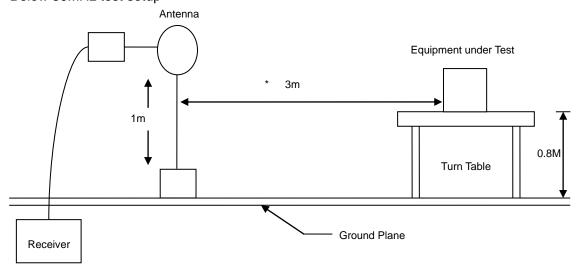
Issued Date:

- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

#### 5.3 Typical Test Setup

Below 30MHz test setup

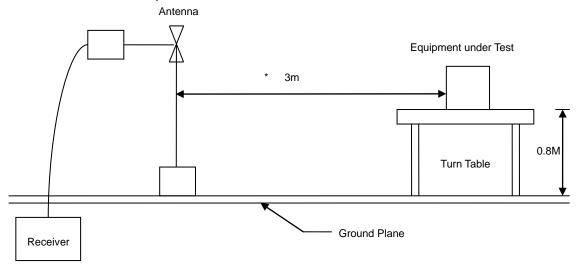


Cerpass Technology Corp.

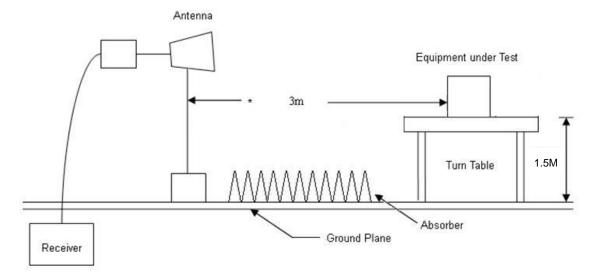
T-FD-503-0 Ver 1.6 Page No. : 23 of 39 FCC ID. : RBWESY15I1EC

Report No.: 24060472-TRFCC07

30MHz- 1GHz Test Setup



Above 1GHz Test Setup



T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024
Page No. : 24 of 39

FCC ID. : RBWESY15I1EC

### 5.4 Test Result and Data (9kHz ~ 30MHz)

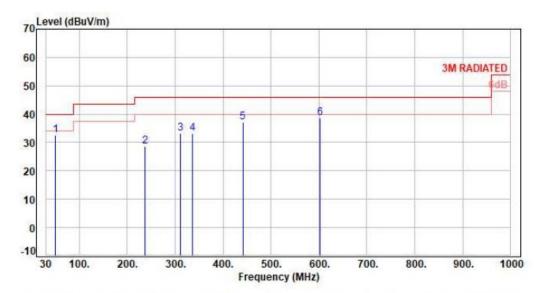
The 9kHz - 30MHz spurious emission is under limit 20dB more.

### 5.5 Test Result and Data (30MHz ~ 1GHz)

Test Mode : 2TX 11ax20 CH06 +BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

Pol : Vertical



Report No.: 24060472-TRFCC07

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	49.40	-9.20	41.89	32.69	40.00	-7.31	Peak	400	360	P
2	237.58	-10.61	39.14	28.53	46.00	-17.47	Peak	400	360	P
3	311.30	-8.23	41.35	33.12	46.00	-12.88	Peak	400	360	P
4	336.52	-7.42	40.58	33.16	46.00	-12.84	Peak	400	360	P
5	441.28	-4.58	41.83	37.25	46.00	-8.75	Peak	400	360	P
6	602.30	-0.74	39.27	38.53	46.00	-7.47	Peak	400	360	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 25 of 39 FCC ID. : RBWESY15I1EC

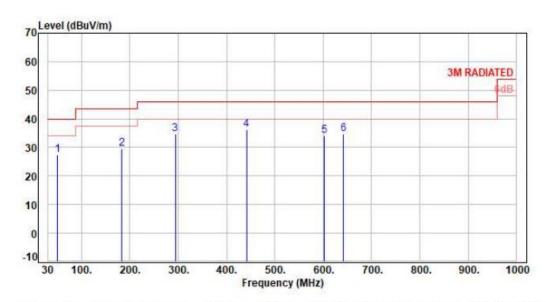
Issued Date:

Sep. 30, 2024

Test Mode : 2TX 11ax20 CH06 +BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
				22744						
1	49.40	-9.20	36.56	27.36	40.00	-12.64	Peak	400	360	P
2	183.26	-10.97	40.65	29.68	43.50	-13.82	Peak	400	360	P
3	293.84	-8.64	43.42	34.78	46.00	-11.22	Peak	400	360	P
4	441.28	-4.58	40.76	36.18	46.00	-9.82	Peak	400	360	P
5	602.30	-0.74	35.00	34.26	46.00	-11.74	Peak	400	360	P
6	641.10	-0.33	35.15	34.82	46.00	-11.18	Peak	400	360	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

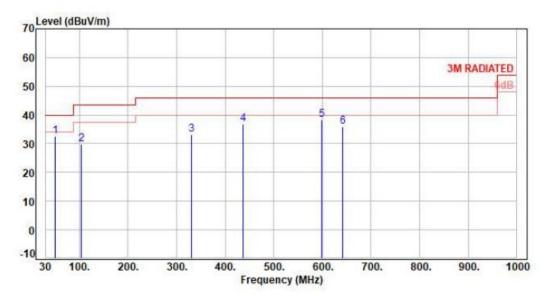
T-FD-503-0 Ver 1.6 Page No. 26 of 39 RBWESY15I1EC FCC ID.

Sep. 30, 2024

Issued Date :

Test Mode: 2TX 11ax20 CH157+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	49.40	-9.20	41.75	32.55	40.00	-7.45	Peak	400	360	Р
2	103.72	-13.70	43.59	29.89	43.50	-13.61	Peak	400	360	P
3	330.70	-7.57	40.64	33.07	46.00	-12.93	Peak	400	360	P
4	437.40	-4.72	41.69	36.97	46.00	-9.03	Peak	400	360	P
5	598.42	-0.84	39.18	38.34	46.00	-7.66	Peak	400	360	P
6	641.10	-0.33	36.32	35.99	46.00	-10.01	Peak	400	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 RBWESY15I1EC FCC ID.

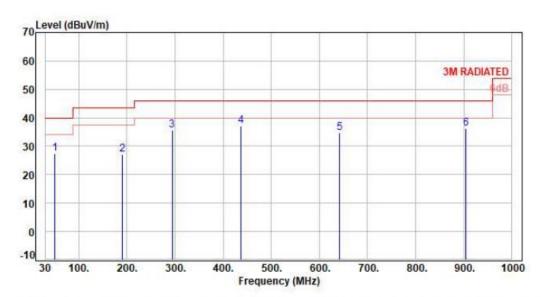
Page No. 27 of 39

**ERPASS TECHNOLOGY CORP.** Report No.: 24060472-TRFCC07

Test Mode : 2TX 11ax20 CH157+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	49.40	-9.20	36.73	27.53	40.00	-12.47	Peak	400	360	P
2	191.02	-11.60	38.76	27.16	43.50	-16.34	Peak	400	360	P
3	293.84	-8.64	44.32	35.68	46.00	-10.32	Peak	400	360	P
4	437.40	-4.72	42.00	37.28	46.00	-8.72	Peak	400	360	P
5	641.10	-0.33	35.05	34.72	46.00	-11.28	Peak	400	360	P
6	904.94	3.82	32.45	36.27	46.00	-9.73	Peak	400	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

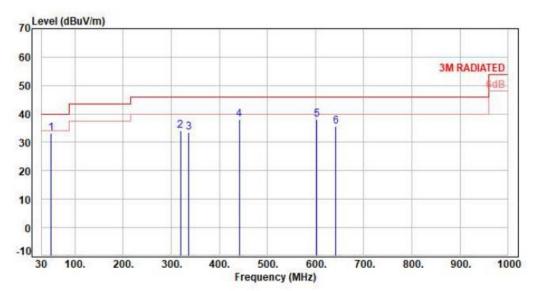
Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 28 of 39 FCC ID. : RBWESY15I1EC

Test Mode : 2TX 11ax160 CH207+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	49.40	-9.20	42.36	33.16	40.00	-6.84	Peak	400	360	Р
2	319.06	-7.96	41.95	33.99	46.00	-12.01	Peak	400	360	P
3	336.52	-7.42	40.80	33.38	46.00	-12.62	Peak	400	360	P
4	441.28	-4.58	42.54	37.96	46.00	-8.04	Peak	400	360	P
5	602.30	-0.74	38.81	38.07	46.00	-7.93	Peak	400	360	P
6	641.10	-0.33	36.02	35.69	46.00	-10.31	Peak	400	360	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

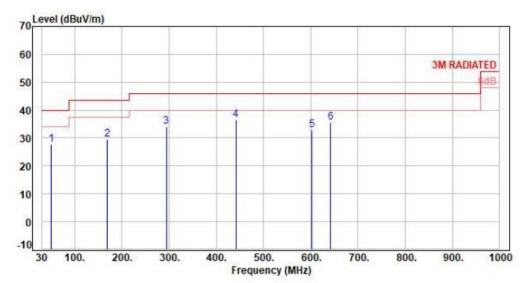
T-FD-503-0 Ver 1.6 Page No. 29 of 39 RBWESY15I1EC FCC ID.

**ERPASS TECHNOLOGY CORP.** Report No.: 24060472-TRFCC07

Test Mode : 2TX 11ax160 CH207+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F	
1	49.40	-9.20	37.04	27.84	40.00	-12.16	Peak	400	360	P	
2	169.68	-9.71	39.10	29.39	43.50	-14.11	Peak	400	360	P	
3	293.84	-8.64	42.73	34.09	46.00	-11.91	Peak	400	360	P	
4	441.28	-4.58	40.98	36.40	46.00	-9.60	Peak	400	360	P	
5	602.30	-0.74	33.69	32.95	46.00	-13.05	Peak	400	360	P	
6	641.10	-0.33	35.96	35.63	46.00	-10.37	Peak	400	360	P	

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

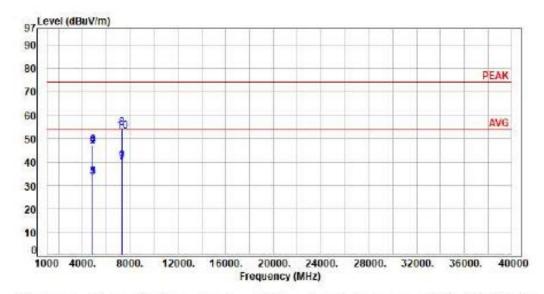
T-FD-503-0 Ver 1.6 Page No. : 30 of 39 FCC ID. : RBWESY15I1EC



## 5.6 Test Result and Data (1GHz ~ 40GHz)

Test Mode : 2TX 11ax20 CH06 +BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4874.00	6.13	27.30	33.43	54.00	-20.57	Average	100	159	P
2	4874.00	6.13	40.45	46.58	74.00	-27.42	Peak	100	159	P
3	4878.00	6.15	27.36	33.51	54.00	-20.49	Average	100	322	P
4	4878.00	6.15	48.61	46.76	74.00	-27.24	Peak	100	322	P
5	4882.00	6.16	27.33	33.49	54.00	-20.51	Average	100	245	P
6	4882.00	6.16	40.90	47.06	74.00	-26.94	Peak	100	245	P
7	7311.00	11.23	28.77	40.00	54.00	-14.00	Average	100	244	P
8	7311.00	11.23	43.38	54.61	74.00	-19.39	Peak	100	244	P
9	7323.00	11.26	28.85	40.11	54.00	-13.89	Average	100	155	P
19	7323.00	11.26	41.91	53.17	74.00	-20.83	Peak	100	155	P

Note: Level-Reading+Factor Margin=Level-Limit

Factor-Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024

Page No.

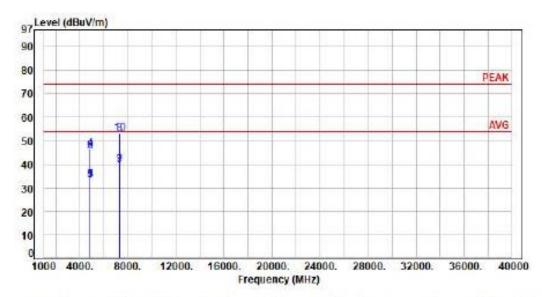
Report No.: 24060472-TRFCC07

RBWESY15I1EC FCC ID.

: 31 of 39

Test Mode : 2TX 11ax20 CH06 +BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz) Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4874.00	6.13	27.04	33.17	54.00	-20.83	Average	100	168	P
2	4874.00	6.13	39.72	45.85	74.00	-28.15	Peak	100	168	P
3	4878.00	6.15	27.04	33.19	54.00	-20.81	Average	100	135	P
4	4878.00	6.15	48.23	46.38	74.00	-27.62	Peak	100	135	P
5	4882.00	6.16	27.00	33.16	54.00	-20.84	Average	100	234	P
6	4882.00	6.16	39.75	45.91	74.00	-28.09	Peak	100	234	p
7	7311.00	11.23	28.49	39.63	54.00	-14.37	Average	100	213	P
8	7311.00	11.23	41.67	52,98	74.00	-21.10	Peak	100	213	P
9	7323.00	11.26	28.44	39.70	54.00	-14.30	Average	100	311	P
.10	7323.00	11.26	41.83	53.89	74.00	-28.91	Peak	100	311	P

Note: Level=Reading+Factor Margin-Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6

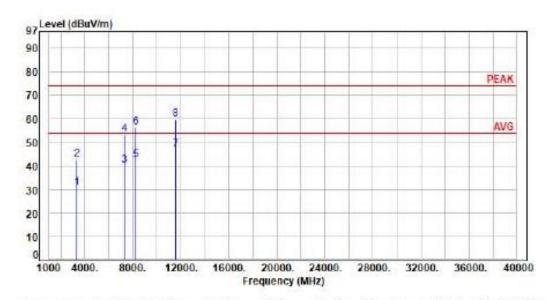
Issued Date : Sep. 30, 2024

Page No. RBWESY15I1EC FCC ID.

: 32 of 39

Test Mode : 2TX 11ax20 CH157+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3344.00	2.04	28.51	30.55	54.00	-23.45	Average	100	213	P
2	3344.00	2.84	40.89	42.93	74.00	-31.07	Peak	100	213	P
3	7323.00	11.87	28.46	40.33	54.00	-13.67	Average	100	322	P
4	7323.00	11.87	41.67	53.54	74.88	-20.46	Peak	100	322	P
5	8226.00	12.70	29.84	42.54	54.00	-11.46	Average	100	159	P
6	8226.00	12.78	43.71	56.41	74.88	-17.59	Peak	199	159	P
7	11570.00	16.76	30.00	46.76	54.00	-7.24	Average	100	177	P
8	11570.00	16.76	43.01	59.77	74.98	-14.23	Peak	100	177	P

Note: Level=Reading+Factor Margin-Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

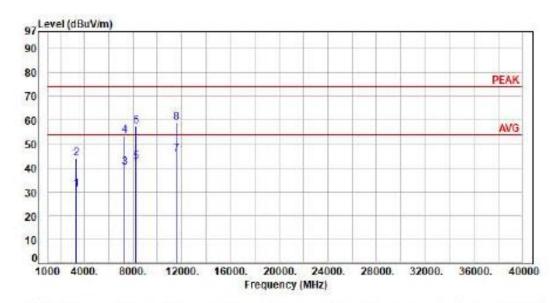
T-FD-503-0 Ver 1.6 Page No. : 33 of 39

RBWESY15I1EC FCC ID.

Test Mode : 2TX 11ax20 CH157+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

: Horizontal Pol



Vo.	Frequency (NHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3344.00	2.04	28.82	30.86	54.00	-23.14	Average	100	241	P
2	3344.00	2.04	42.82	44.06	74.00	-29.94	Peak	100	241	p
3	7323.00	11.87	28.41	48.28	54.00	-13.72	Average	100	156	P
4	7323.00	11.87	41.45	53.32	74.88	-20.58	Peak	100	156	P
5	8225.00	12.70	29.98	42.60	54.00	-11.40	Average	100	241	P
6	8225.98	12.78	44.86	57.56	74.00	-16.44	Peak	100	241	P
7	11570.00	16.76	28.97	45.73	54.00	-8.27	Average	100	218	P
8	11570.00	16.76	42.39	59.15	74.98	-14.85	Peak	108	218	P

Note: Level=Reading+Factor Margin-Level-Limit

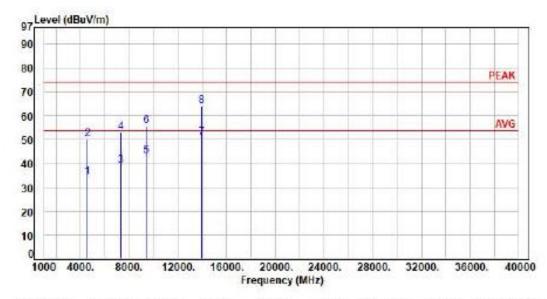
Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 34 of 39 RBWESY15I1EC FCC ID.

Test Mode : 2TX 11ax160 CH207+8T 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (d8uV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4544.00	4.88	29.52	34.40	54.00	-19.60	Average	100	116	Р
2	4544.00	4.88	45.20	50.08	74.00	-23.92	Peak	100	116	P
3	7323.00	10.93	28.20	39.13	54.00	-14.87	Average	100	123	P
4	7323.00	10.93	42.36	53.29	74.00	-20.71	Peak	100	123	P
5	9426.00	13.64	29.41	43.05	54.00	-10.95	Average	100	344	P
6	9426.00	13.64	42.09	55.73	74.00	-18.27	Peak	100	344	P
7	13970.00	22.09	28.64	50.73	54.00	-3.27	Average	100	155	P
8	13970.00	22.09	42.21	64.30	74.00	-9.70	Peak	100	155	P

Note: Level=Reading+Factor Margin-Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6

Issued Date : Sep. 30, 2024

Page No.

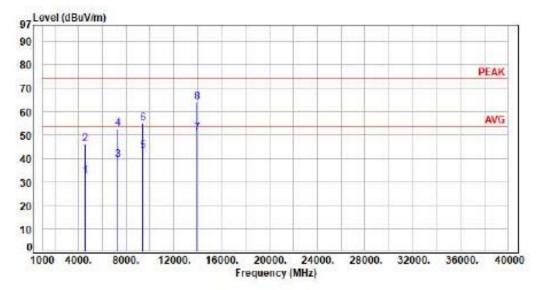
RBWESY15I1EC FCC ID.

35 of 39

Test Mode : 2TX 11ax160 CH207+BT 1TX CH39 1Mbps

Voltage : From Adatper(AC120V/60Hz)

Pol. : Horizontal



No.	Frequency (NHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4544.08	4.88	27.63	32.51	54.00	-21.49	Average	100	133	P
2	4544.00	4.88	41.25	46.13	74.00	-27.87	Peak	188	133	P
3	7323.00	10.93	28.63	39.56	54.00	-14.44	Average	100	195	P
4	7323.00	10.93	41.66	52.59	74.98	-21.41	Peak	100	195	P
5	9426.00	13.64	29.38	43.02	54.00	-10.98	Average	100	214	P
6	9426.00	13.64	41.33	54.97	74.80	-19.03	Peak	100	214	P
7	13970.00	22.09	28.65	50.74	54.00	-3.26	Average	100	315	P
8	13970.00	22.89	41.98	64.07	74.00	-9.93	Peak	100	315	P

Note: Level-Reading+Factor Margin=Level-Limit

Factor-Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

T-FD-503-0 Ver 1.6 Page No. : 36 of 39

RBWESY15I1EC FCC ID.



# 5.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 - 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 – 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 – 13.41000			

<sup>\*\*:</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

Cerpass Technology Corp. T-FD-503-0 Ver 1.6 Issued Date : Sep. 30, 2024
Page No. : 37 of 39

Report No.: 24060472-TRFCC07

FCC ID. : RBWESY15I1EC