

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No...... GTS20250219002-1-04

FCC ID.....: 2AYD5-I24D06

Compiled by

(position+printed name+signature) .: File administrators Peter Xiao

Supervised by

(position+printed name+signature) .: Test Engineer Evan Ouyang

Approved by

(position+printed name+signature) .: Manager Jason Hu

Date of issue Mar.28, 2025

Representative Laboratory Name.: Shenzhen Global Test Service Co., Lto.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative

Address Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu

Street, Longgang District, Shenzhen, Guangdong, China

Applicant's name...... Imin Technology Pte Ltd

Test specification:

Standard FCC Part 15.247

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF Dated 2014-12

Shenzhen Global Test Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description POS Device

11 1 111 1

Manufacturer: Imin Technology Pte Ltd

Model/Type reference: I24D06

Listed Models: N/A

Trade Mark:

Modulation Type GFSK

Operation Frequency...... From 2402MHz to 2480MHz

Hardware Version N/A

Software Version: N/A

Rating DC 24V/1.5A by Adapter

Result PASS

Report No.: GTS20250219002-1-04 Page 2 of 37

TEST REPORT

Test Report No. :	GTS20250219002-1-04	Mar.28, 2025	
	G1020230213002-1-04	Date of issue	

Equipment under Test : POS Device

Model /Type : I24D06

Listed model : N/A

Applicant : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Manufacturer : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1. TEST STANDARDS	4
2. SUMMARY	5
2.1. General Remarks	5
2.2. Product Description	5
2.3. Equipment Under Test	5
2.4. Short description of the Equipment under Test (EUT)	7
2.5. EUT operation mode	7
2.6. Block Diagram of Test Setup	7
2.7. EUT Exercise Software	8
2.8. Special Accessories	8
2.9. External I/O Cable	8
2.10. Related Submittal(s) / Grant (s)	8
2.11. Modifications	8
3. TEST ENVIRONMENT	9
3.1. Address of the test laboratory	9
3.2. Test Facility	9
3.3. Environmental conditions	9
3.4. Statement of the measurement uncertainty	9
3.5. Test Description	10
3.6. Equipments Used during the Test	11
4. TEST CONDITIONS AND RESULTS	12
4.1. AC Power Conducted Emission	12
4.2. Radiated Emission	13
4.3. Maximum Peak Output Power	31
4.4. Power Spectral Density	32
4.5. 99% and 6dB Bandwidth	33
4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission	34
4.7. Antenna Requirement	36
5. TEST SETUP PHOTOS OF THE EUT	37
6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	37

Report No.: GTS20250219002-1-04 Page 4 of 37

1. TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

<u>ANSI C63.10-2020</u>: American National Standard for Testing Unlicensed Wireless Devices

<u>KDB 558074 D01 DTS Meas Guidance:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

Report No.: GTS20250219002-1-04 Page 5 of 37

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample		Feb.28, 2025
Testing commenced on	:	Feb.28, 2025
Testing concluded on	:	Mar.25, 2025

2.2. Product Description

Product Name:	POS Device	
Trade Mark:	imin	
Model/Type reference:	124D06	
List Model:	N/A	
Model Declaration	N/A	
Power supply:	DC 24V/1.5A by Adapter	
Hardware Version	N/A	
Software Version	N/A	
Sample ID	GTS20241108022-2-S0001-1# GTS20241108022-2-S0001-2#(Version A) GTS20241108022-2-S0001-3#(Version B) GTS20241108022-2-S0001-4#(Version C)	
Bluetooth		
Frequency Range	2402MHz ~ 2480MHz	
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)	
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)	
Modulation Type	GFSK, π/4-DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)	
2.4GWLAN		
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz IEEE 802.11ax HE20:2412-2462MHz IEEE 802.11ax HE40:2422-2452MHz	
WLAN Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)	
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20) 7 Channel for IEEE 802.11n/ax (HT40)	
Channel separation:	5MHz	
WIFI(5.2G/5.3G/5.7G/5.8G Ban	<u></u>	
WLAN Operation frequency	5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz	

Report No.: GTS20250219002-1-04 Page 6 of 37

	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)			
NAVI ANI NA IL INCO T	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)			
WLAN Modulation Type	IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)			
	4 Channels for 20MHz bandwidth(5180-5240MHz)			
	4 Channels for 20MHz bandwidth(5260-5320MHz)			
	11 Channels for 20MHz bandwidth(5500-5700MHz)			
	5 channels for 20MHz bandwidth(5745-5825MHz)			
	2 channels for 40MHz bandwidth(5190~5230MHz)			
Channel number:	2 channels for 40MHz bandwidth(5270~5310MHz)			
Chamler number.	5 Channels for 40MHz bandwidth(5510-5670MHz)			
	2 channels for 40MHz bandwidth(5755~5795MHz)			
	1 channels for 80MHz bandwidth(5210MHz)			
	1 channels for 80MHz bandwidth(5290MHz)			
	2 Channels for 80MHz bandwidth(5530-5610MHz)			
	1 channels for 80MHz bandwidth(5775MHz)			
Antenna Description	Internal Antenna, 3.36dBi(Max.) for 2.4G Band and 5.11dBi(Max.) for 5G Band			
RFID(13.56MHz) (Optional)				
Frequency Range	13.56MHz			
Channel Number	1			
Modulation Type	ASK			
Antenna Description	Internal Antenna, 0dBi (Max.), NFC has three optional antennas, antenna 1(Model:DS2-52), antenna 2 (Model:DS2-51) and antenna 3 (Model:DS2-55).			
Remark:The I24D06 model h Version A: One large display Version B: Only one large dis	and one small display;			

Version B: Only one large display; Version C: Only one large display(wall-mounted);

The I24D06 sub screen comes in two types, with and without touch, the worst mode tested in the report.

Report No.: GTS20250219002-1-04 Page 7 of 37

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	•	24 V DC
		0	Other (specified in blank bel	ow))

DC 24.0V

2.4. Short description of the Equipment under Test (EUT)

This is a POS Device.

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

2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)	
	2402	1	
(BLE)	2440	1	
	2480	1	
For Conducted Emission			
Test Mode		TX Mode	
For Radiated Emission			
Test Mode		TX Mode	

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
18	2438	38	2478
19	2440	39	2480

The EUT has been tested under operating condition.

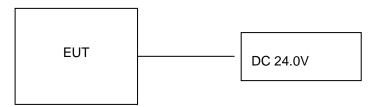
This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case(AC 120V/60Hz).

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be BT LE mode (MCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BT LE mode(MCH).

2.6. Block Diagram of Test Setup



Report No.: GTS20250219002-1-04 Page 8 of 37

2.7. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (adb model) provided by application.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate	
SHENZHEN HONOR	Adoptor	ADS-65HI-19A-		SDOC	
ELECTRONIC CO.,LTD.	Adapter	124036F		3000	
Jiangsu Chenyang Electron	Adoptor	CYZS36-240150		SDOC	
Co.,Ltd.	Adapter	012330-240130		3000	
LENOVO	PC	DESKYOP-EUIVCNR		SDOC	
LENOVO	Keyboard	T460S	1	SDOC	
LENOVO	Mouse	Howard	1	SDOC	
aigo	USB flash disk	U330	1	SDOC	
SONY	Earphone	MDR-XB550AP	-	SDOC	
	Electronic Scale			SDOC	
	Cashbox			SDOC	

Note: The PC, Electronic Scale, Cashbox, Keyboard, Mouse, Earphone and USB flash disk is only used for auxiliary testing.

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
USB Port	3	N/A
RJ11 Port	1	N/A
RJ12 Port	1	N/A
RJ45 Port	1	Non-Shielded, 10m
HDMI Port	1	N/A
Type-C Port	1	N/A
Earphone Port	1	N/A

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

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-I24D06** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11. Modifications

No modifications were implemented to meet testing criteria.

Report No.: GTS20250219002-1-04 Page 9 of 37

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

3.2. Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. 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 Global Test Service 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 Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: GTS20250219002-1-04 Page 10 of 37

3.5. Test Description

	Applied Standard: FCC Part 15 Subpart C								
FCC Rules	Description of Test	Test Sample	Result	Remark					
/	On Time and Duty Cycle		/	/					
§15.247(b)	Maximum Conducted Output Power	GTS20241108022-2-S0001-1#	Compliant	Appendix B					
§15.247(e)	Power Spectral Density	GTS20241108022-2-S0001-1#	Compliant	Appendix B					
§15.247(a)(2)	6dB Bandwidth	GTS20241108022-2-S0001-1#	Compliant	Appendix B					
§2.1047	99% Occupied Bandwidth	GTS20241108022-2-S0001-1#	Compliant	Appendix B					
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20241108022-2-S0001-1#	Compliant	Appendix B					
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20241108022-2-S0001-1# GTS20241108022-2-S0001-2# GTS20241108022-2-S0001-3# GTS20241108022-2-S0001-4#	Compliant	Note 1					
§15.205	Emissions at Restricted Band	GTS20241108022-2-S0001-3#	Compliant	Appendix B					
§15.207(a)	AC Conducted Emissions	GTS20241108022-2-S0001-2# GTS20241108022-2-S0001-3# GTS20241108022-2-S0001-4#	Compliant	Note 1					
§15.203 §15.247(c)	Antenna Requirements	GTS20241108022-2-S0001-1#	Compliant	Note 1					
§15.247(i)§2.10 91	RF Exposure		Compliant	Note 2					

Remark:

- 1. The measurement uncertainty is not included in the test result.
- 2. NA = Not Applicable; NP = Not Performed
- 3. Note 1 Test results inside test report;
- 4. Note 2 Test results in other test report (MPE Report).
- 5. We tested all test mode and recorded worst case in report

Report No.: GTS20250219002-1-04

3.6. Equipments Used during the Test

Test Equipment Manufacturer		Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2024/07/15	2025/07/14
LISN	R&S	ESH2-Z5	893606/008	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESPI3	101841-cd	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESCI7	101102	2024/07/15	2025/07/14
Spectrum Analyzer	Agilent	N9020A	MY48010425	2024/07/15	2025/07/14
Spectrum Analyzer	R&S	FSV40-N	101800	2024/07/15	2025/07/14
Vector Signal generator	Agilent	N5181A	MY49060502	2024/07/15	2025/07/14
Signal generator	Agilent	N5182A	3610AO1069	2024/07/15	2025/07/14
Climate Chamber	ESPEC	EL-10KA	A20120523	2024/07/15	2025/07/14
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2024/12/16	2025/12/15
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2024/07/15	2025/07/14
Bilog Antenna	Schwarzbeck	VULB9163	000976	2024/07/15	2025/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024/07/15	2025/07/14
Amplifier	SKET	LAPA_30M01G-32	SK2024010400 1	2025/01/21	2026/01/20
Amplifier	EMCI	EMC012645SE	980340	2025/01/21	2026/01/20
Amplifier	Schwarzbeck	BBV9179	9719-025	2025/01/21	2026/01/20
Temperature/Humidity Meter	Gangxing	CTH-608	02	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2024/07/15	2025/07/14
Power Sensor	Agilent	U2021XA	MY5365004	2024/07/15	2025/07/14
Test Control Unit	Tonscend	JS0806-1	178060067	2024/07/15	2025/07/14
Automated filter bank	Tonscend	JS0806-F	19F8060177	2024/07/15	2025/07/14
Wireless Commnunication Tester	Rohde&Schwarz	CMW500	125408	2024/07/15	2025/07/14
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	1	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

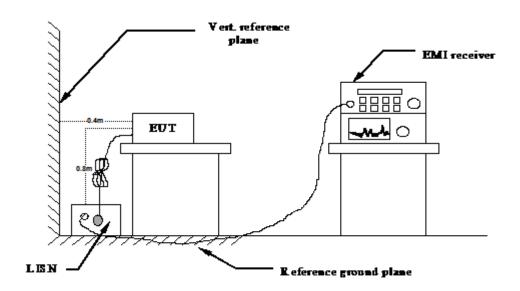
Note: 1. The Cal.Interval was one year.

Report No.: GTS20250219002-1-04 Page 12 of 37

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

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 tabletop 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 EUT received DC 24V power, the adapter received AC120V/60Hz or AC 240V/50Hz 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.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (d	dBuV)
Frequency range (IVII 12)	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 freque	ency.	

DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

Report No.: GTS20250219002-1-04 Page 13 of 37

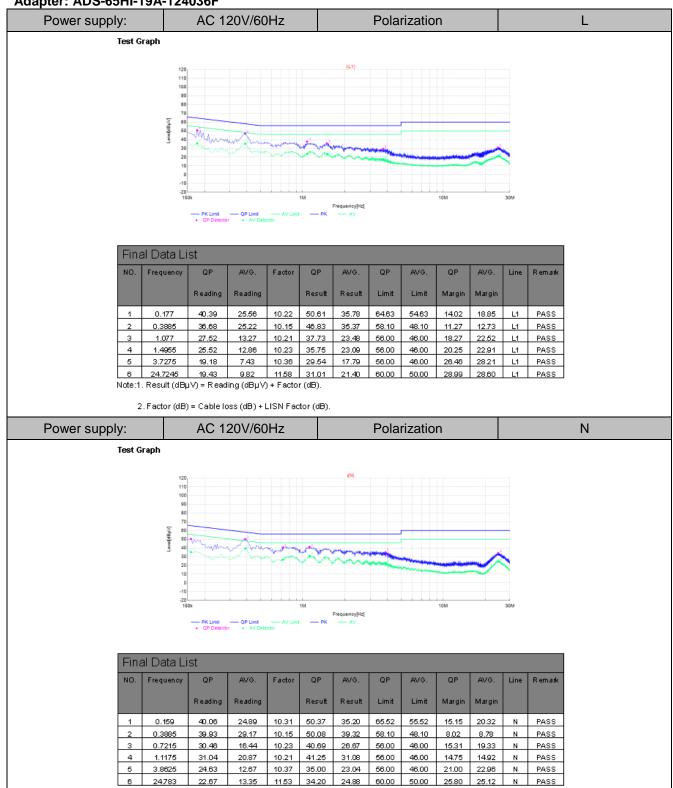
TEST RESULTS

Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	25 ℃	Humidity	60%
Test Engineer	Evan Ouyang	Configurations	BT

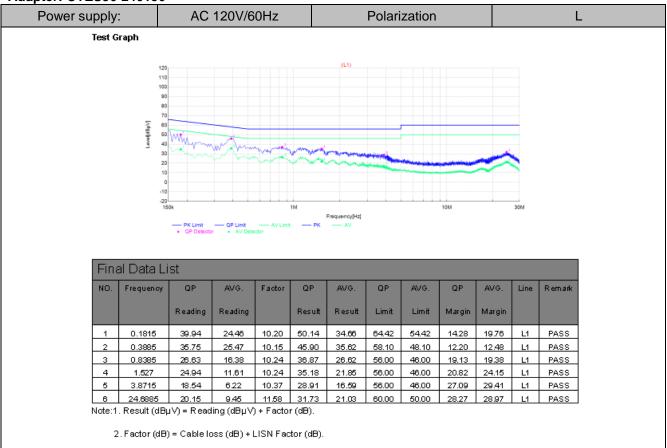
Version A:

Adapter: ADS-65HI-19A-124036F

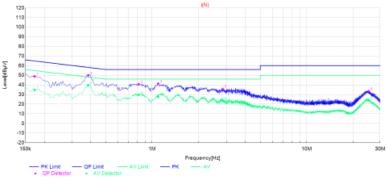


Note:1. Result (dB μ V) = Reading (dB μ V) + Factor (dB). 2. Factor (dB) = Cable loss (dB) + LISN Factor (dB) Report No.: GTS20250219002-1-04 Page 14 of 37

Adapter: CYZS36-240150



Power supply:	AC 120V/60Hz	Polarization	N
Test Graph			
	20,	(N)	
1	10		

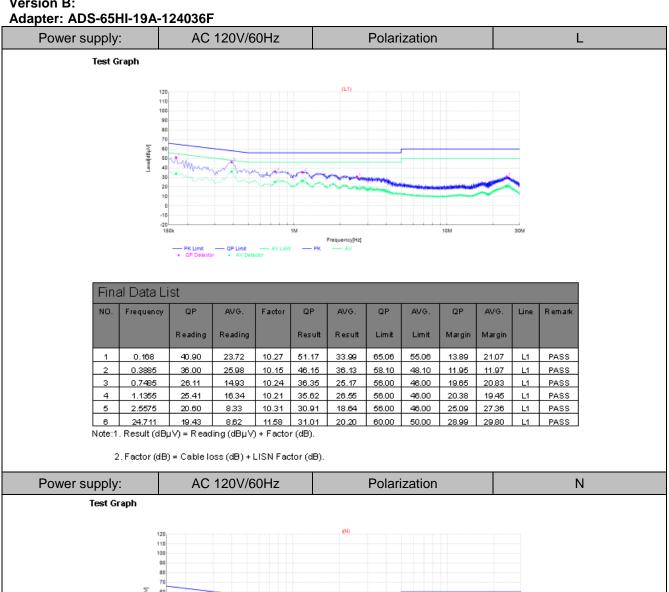


Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1725	38.59	24.46	10.24	48.83	34.70	64.84	54.84	16.01	20.14	N	PASS
2	0.384	39.74	29.54	10.15	49.89	39.69	58.19	48.19	8.30	8.50	N	PASS
3	0.816	30.56	19.44	10.24	40.80	29.68	56.00	46.00	15.20	16.32	N	PASS
4	1.095	31.19	17.40	10.21	41.40	27.61	56.00	46.00	14.60	18.39	N	PASS
5	2.841	25.42	13.07	10.33	35.75	23.40	56.00	48.00	20.25	22.60	N	PASS
6	25 269	22.06	12.55	11.55	33.61	24.10	60.00	50.00	26.39	25,90	N	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

Report No.: GTS20250219002-1-04 Page 15 of 37

Version B:



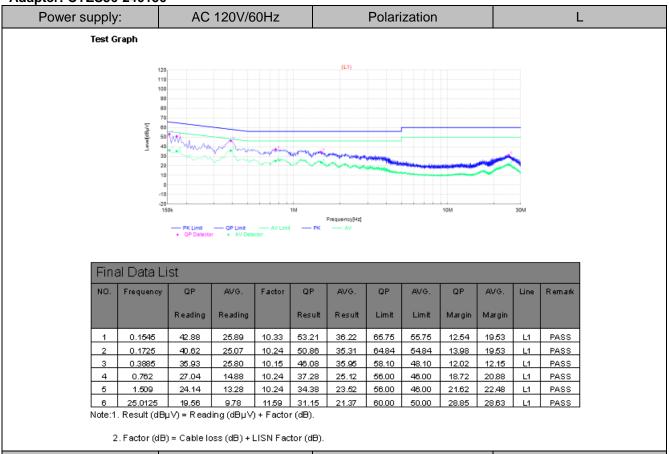
[Avlan]hoor)	120 110 100 90 80 70 60 50 40 30 20 10 0	(9)		∽
	-20 150k	1M	10M	30M
	DY LLWY OF	Frequency[Hz]		
	PK Limit — QF QP Detector •	Limit — AV Limit — PK — AV AV Detector		

Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.177	37.64	25.38	10.22	47.86	35.60	64.63	54.63	16.77	19.03	N	PASS
2	0.3885	40.42	29.07	10.15	50.57	39.22	58.10	48.10	7.53	8.88	N	PASS
3	0.7575	30.88	18.84	10.24	41.12	29.08	56.00	46.00	14.88	16.92	N	PASS
4	1.518	29.90	18.70	10.24	40.14	28.94	56.00	46.00	15.86	17.06	N	PASS
5	3.2055	25.41	13.85	10.35	35.76	24.20	56.00	48.00	20.24	21.80	N	PASS
6	24.7965	22.02	12.93	11.53	33.55	24.48	60.00	50.00	26.45	25.54	N	PASS

Note:1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

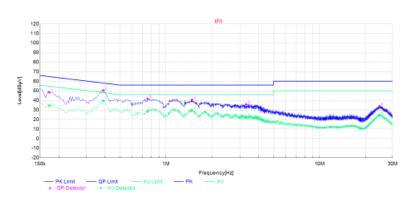
Report No.: GTS20250219002-1-04 Page 16 of 37

Adapter: CYZS36-240150



Б	4.0.4.00\//0011	D 1 1 11	N.
Power supply:	ΔC 120\//60H ₇	Polarization	N N

Test Graph



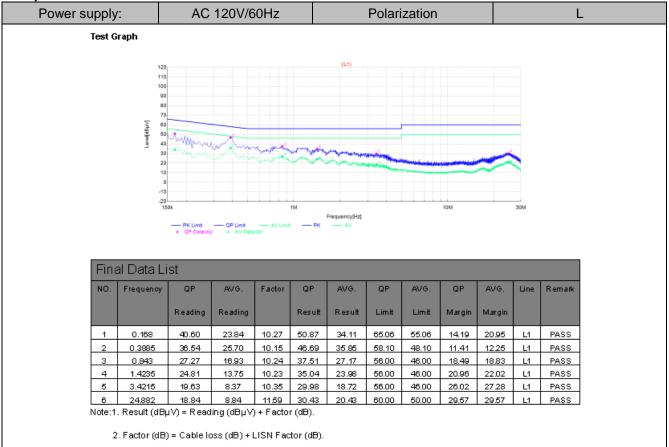
Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1725	38.17	24.24	10.24	48.41	34.48	64.84	54.84	16.43	20.36	N	PASS
2	0.3885	40.10	29.43	10.15	50.25	39.58	58.10	48.10	7.85	8.52	N	PASS
3	0.7575	31.40	18.09	10.24	41.64	28.33	56.00	48.00	14.36	17.67	N	PASS
4	1.482	30.38	19.47	10.23	40.61	29.70	56.00	46.00	15.39	16.30	N	PASS
5	3.309	25.35	11.99	10.35	35.70	22.34	56.00	46.00	20.30	23.66	N	PASS
6	24.6345	22.37	12.89	11.53	33.90	24.42	60.00	50.00	26.10	25.58	N	PASS

Note:1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

Report No.: GTS20250219002-1-04 Page 17 of 37

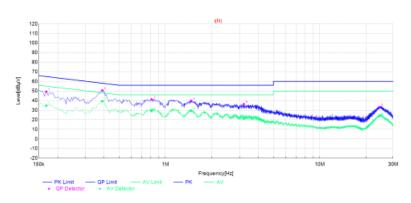
Version C:

Adapter: ADS-65HI-19A-124036F



Power supply: AC 120V/60Hz	Polarization	N
----------------------------	--------------	---

Test Graph

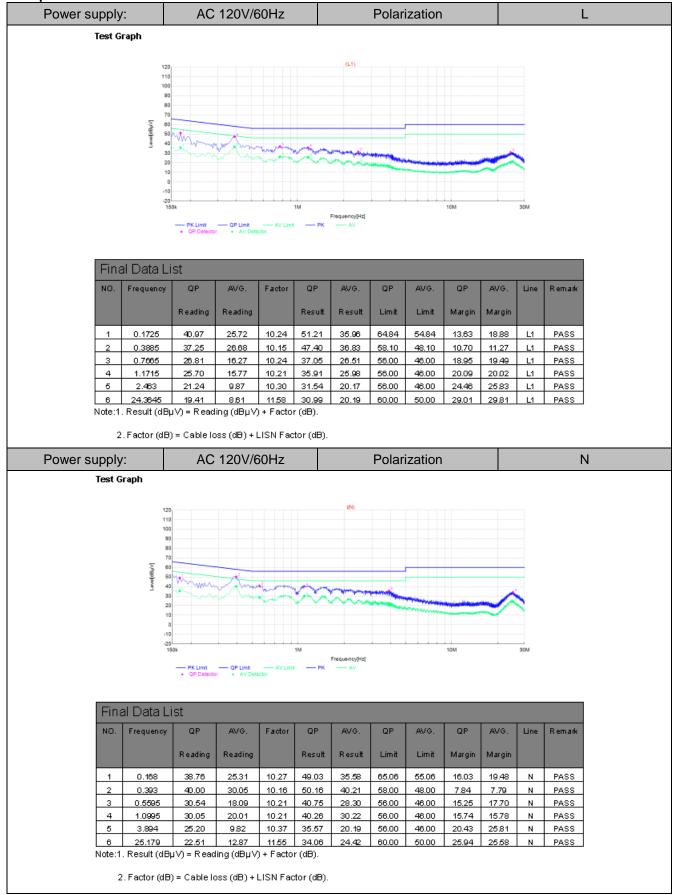


Fina	Final Data List													
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark		
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin				
1	0.168	39.00	24.40	10.27	49.27	34.67	65.06	55.06	15.79	20.39	z	PASS		
2	0.3885	40.47	29.20	10.15	50.62	39.35	58.10	48.10	7.48	8.75	z	PASS		
3	0.8115	31.02	18.96	10.25	41.27	29.21	56.00	48.00	14.73	16.79	N	PASS		
4	1.4775	29.65	19.30	10.23	39.88	29.53	56.00	48.00	16.12	16.47	N	PASS		
5	3.201	26.02	10.88	10.35	36.37	21.23	56.00	46.00	19.63	24.77	N	PASS		
6	24.4275	21.84	12.51	11.52	33.36	24.03	60.00	50.00	26.64	25.97	N	PASS		

Note:1. Result $(dB\mu V) = Reading (dB\mu V) + Factor (dB)$.

Report No.: GTS20250219002-1-04 Page 18 of 37

Adapter: CYZS36-240150

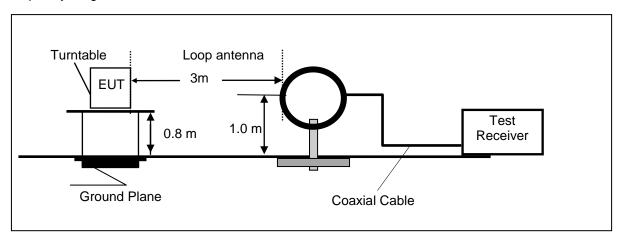


Note: All modes have been tested and the worst mode is recorded in the report, NFC has three optional antennas, with the worst mode recorded in the report (NFC antenna Model:DS2-52).

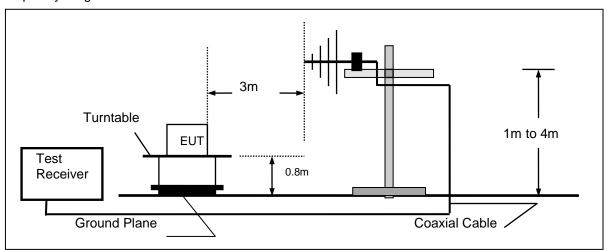
4.2. Radiated Emission

TEST CONFIGURATION

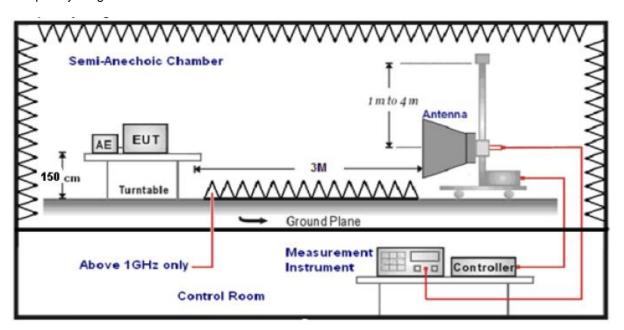
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



Report No.: GTS20250219002-1-04 Page 20 of 37

TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. 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.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 30MHz to 25GHz.
- 6. 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	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test	Frequency	Test Receiver/Spectrum Setting	Detector	
range				
9KHz-1	50KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP	
150KH	z-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP	
30MHz	-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP	
		Peak Value: RBW=1MHz/VBW=3MHz,		
1047	10CU-	Sweep time=Auto	Peak	
1GHz-40GHz		Average Value: RBW=1MHz/VBW=10Hz,	Peak	
		Sweep time=Auto		

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

Report No.: GTS20250219002-1-04 Page 21 of 37

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(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 RESULTS

Remark: We measured Radiated Emission at GFSK mode from 9KHz to 25GHz in AC120V and the worst case was recorded.

Temperature	25℃	Humidity	55%
Test Engineer	Evan Ouyang	Configurations	BT

For 9 KHz~30MHz

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

Report No.: GTS20250219002-1-04 Page 22 of 37

For 30MHz-1GHz

Version A:

Adapter: ADS-65HI-19A-124036F

Horizontal Test Graph Op Limit PK Frequency(Hz) Suspected List

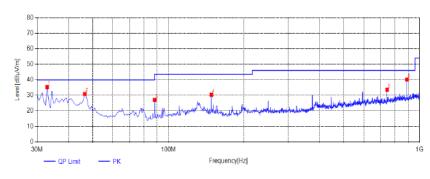
Sus	Suspected List												
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark		
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]					
1	195.87	38.98	-10.57	28.41	43.50	15.09	100	40	PK	Horizonta	PASS		
2	250.19	37.37	-8.70	28.67	46.00	17.33	100	235	PK	Horizonta	PASS		
3	374.835	39.18	-5.71	33.47	46.00	12.53	100	2	PK	Horizonta	PASS		
4	445.645	36.55	-3.91	32.64	46.00	13.36	100	73	PK	Horizonta	PASS		
5	742.95	33.84	1.13	34.97	46.00	11.03	100	33	PK	Horizonta	PASS		
6	891.36	40.01	1.98	41.99	46.00	4.01	100	56	PK	Horizonta	PASS		

Note: 1. Result ($dB\mu V/m$) = Reading($dB\mu V/m$) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical





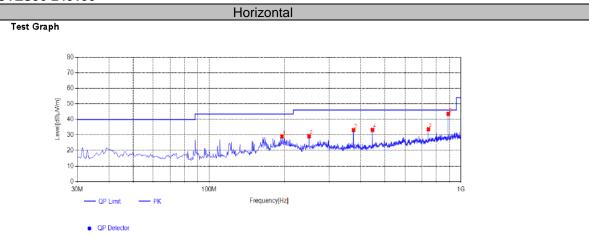
QP Detector

S	Suspected List												
N	10.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark	
			[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]				
	1	32.91	47.91	-12.62	35.29	40.00	4.71	100	66	PK	Vertical	PASS	
	2	46.49	42.13	-11.28	30.85	40.00	9.15	100	166	PK	Vertical	PASS	
	3	88.2	40.53	-13.50	27.03	43.50	16.47	100	33	PK	Vertical	PASS	
	4	148.34	44.64	-14.22	30.42	43.50	13.08	100	169	PK	Vertical	PASS	
	5	742.95	32.46	1.13	33.59	46.00	12.41	100	159	PK	Vertical	PASS	
	6	891.36	38.15	1.98	40.13	46.00	5.87	100	358	PK	Vertical	PASS	

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

Report No.: GTS20250219002-1-04 Page 23 of 37

Adapter: CYZS36-240150



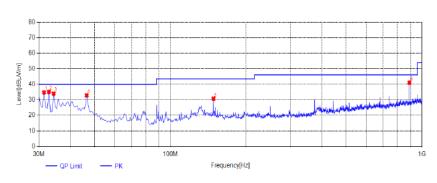
Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[12]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	194.9	39.81	-10.65	29.16	43.50	14.34	100	43	PK	Horizonta	PASS
2	249.705	37.99	-8.72	29.27	46.00	16.73	100	7	PK	Horizonta	PASS
3	374.835	38.88	-5.71	33.17	46.00	12.83	100	328	PK	Horizonta	PASS
4	445.645	37.18	-3.91	33.27	46.00	12.73	100	358	PK	Horizonta	PASS
5	742.95	32.54	1.13	33.67	46.00	12.33	100	20	PK	Horizonta	PASS
6	891.36	41.62	1.98	43.60	46.00	2.40	100	47	PK	Horizonta	PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical





QP Detector

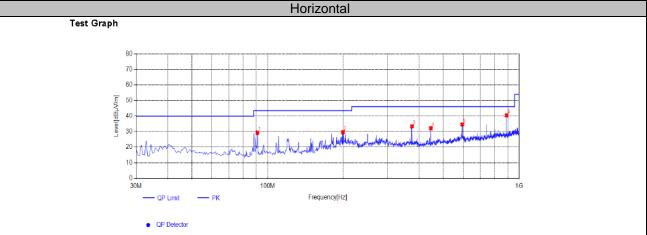
Sus	pected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[111112]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	31.455	47.55	-12.78	34.77	40.00	5.23	100	288	PK	Vertical	PASS
2	32.91	47.71	-12.62	35.09	40.00	4.91	100	53	PK	Vertical	PASS
3	34.365	46.51	-12.50	34.01	40.00	5.99	100	4	PK	Vertical	PASS
4	46.49	44.20	-11.28	32.92	40.00	7.08	100	94	PK	Vertical	PASS
5	148.34	44.98	-14.22	30.76	43.50	12.74	100	202	PK	Vertical	PASS
6	891.36	39.12	1.98	41.10	46.00	4.90	100	351	PK	Vertical	PASS

Note: 1. Result ($dB\mu V/m$) = Reading($dB\mu V/m$) + Factor (dB) .

Report No.: GTS20250219002-1-04 Page 24 of 37

Version B:

Adapter: ADS-65HI-19A-124036F



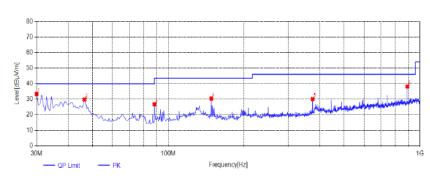
Sus	pected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	91.11	42.51	-13.20	29.31	43.50	14.19	100	237	PK	Horizonta	PASS
2	199.265	39.87	-10.25	29.62	43.50	13.88	100	39	PK	Horizonta	PASS
3	374.835	39.07	-5.71	33.36	46.00	12.64	100	13	PK	Horizonta	PASS
4	445.645	36.10	-3.91	32.19	46.00	13.81	100	358	PK	Horizonta	PASS
5	594.055	35.19	-0.60	34.59	46.00	11.41	100	13	PK	Horizonta	PASS
6	891.36	38.49	1.98	40.47	46.00	5.53	100	2	PK	Horizonta	PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical





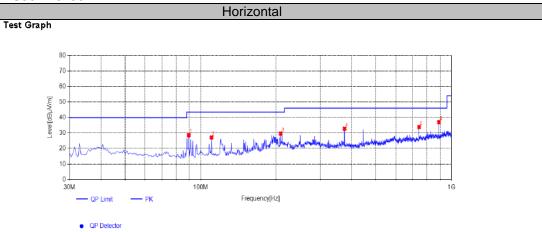
QP Detector

Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	30	45.83	-12.50	33.33	40.00	6.67	100	112	PK	Vertical	PASS
2	46.49	41.11	-11.28	29.83	40.00	10.17	100	100	PK	Vertical	PASS
3	88.2	40.26	-13.50	26.76	43.50	16.74	100	50	PK	Vertical	PASS
4	148.34	44.70	-14.22	30.48	43.50	13.02	100	188	PK	Vertical	PASS
5	374.835	35.83	-5.71	30.12	46.00	15.88	100	314	PK	Vertical	PASS
6	891.36	36.20	1.98	38.18	46.00	7.82	100	4	PK	Vertical	PASS

Note: 1. Result $(dB\mu V/m) = Reading(dB\mu V/m) + Factor (dB)$.

Report No.: GTS20250219002-1-04 Page 25 of 37

Adapter: CYZS36-240150



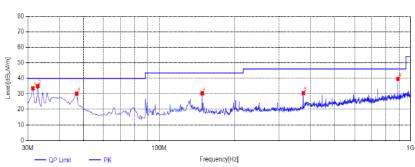
Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	,	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	89.655	42.08	-13.37	28.71	43.50	14.79	100	30	PK	Horizonta	PASS
2	110.51	38.72	-11.56	27.16	43.50	16.34	100	281	PK	Horizonta	PASS
3	208.48	39.65	-9.97	29.68	43.50	13.82	100	0	PK	Horizonta	PASS
4	374.835	38.52	-5.71	32.81	46.00	13.19	100	337	PK	Horizonta	PASS
5	742.95	32.75	1.13	33.88	46.00	12.12	100	23	PK	Horizonta	PASS
6	891.36	35.03	1.98	37.01	46.00	8.99	100	301	PK	Horizonta	PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical





QP Detector

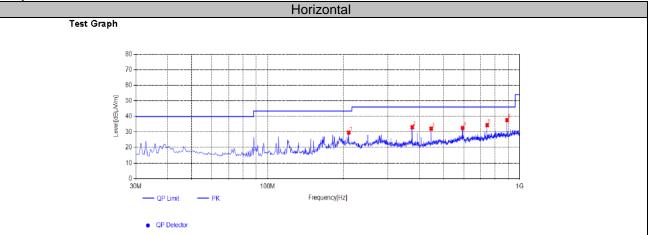
Sus	Suspected List													
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark			
		[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]						
1	31.455	46.40	-12.78	33.62	40.00	6.38	100	22	PK	Vertical	PASS			
2	32.91	47.62	-12.62	35.00	40.00	5.00	100	303	PK	Vertical	PASS			
3	46.975	41.41	-11.21	30.20	40.00	9.80	100	135	PK	Vertical	PASS			
4	148.34	44.67	-14.22	30.45	43.50	13.05	100	187	PK	Vertical	PASS			
5	374.835	36.28	-5.71	30.57	46.00	15.43	100	280	PK	Vertical	PASS			
6	891.36	37.69	1.98	39.67	46.00	6.33	100	360	PK	Vertical	PASS			

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

Report No.: GTS20250219002-1-04 Page 26 of 37

Version C:

Adapter: ADS-65HI-19A-124036F



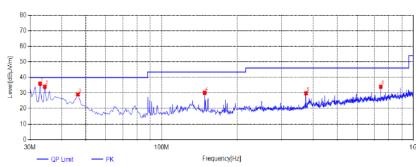
Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	,,	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	209.935	39.59	-9.94	29.65	43.50	13.85	100	346	PK	Horizonta	PASS
2	374.835	38.80	-5.71	33.09	46.00	12.91	100	313	PK	Horizonta	PASS
3	445.645	36.09	-3.91	32.18	46.00	13.82	100	2	PK	Horizonta	PASS
4	594.055	33.23	-0.60	32.63	46.00	13.37	100	13	PK	Horizonta	PASS
5	742.95	33.27	1.13	34.40	46.00	11.60	100	26	PK	Horizonta	PASS
6	891.36	35.61	1.98	37.59	46.00	8.41	100	201	PK	Horizonta	PASS

Note: 1. Result ($dB\mu V/m$) = Reading($dB\mu V/m$) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical





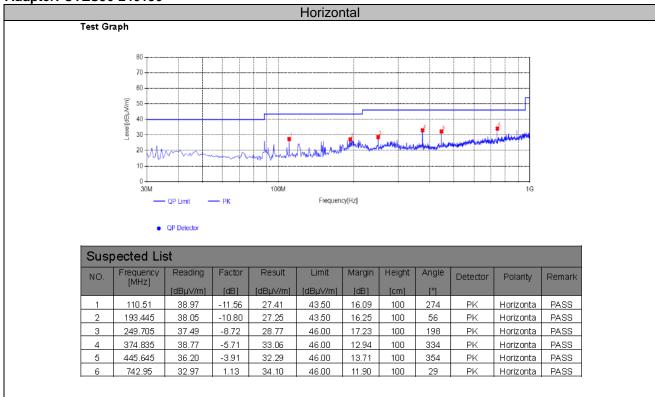
QP Detector

S	Suspected List														
N	Ο.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark			
		[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]						
	1	32.91	48.58	-12.62	35.96	40.00	4.04	100	42	PK	Vertical	PASS			
:	2	34.365	46.51	-12.50	34.01	40.00	5.99	100	65	PK	Vertical	PASS			
;	3	46.49	40.42	-11.28	29.14	40.00	10.86	100	217	PK	Vertical	PASS			
	4	148.34	44.40	-14.22	30.18	43.50	13.32	100	191	PK	Vertical	PASS			
	5	374.835	35.58	-5.71	29.87	46.00	16.13	100	280	PK	Vertical	PASS			
	6	742.95	32.86	1.13	33.99	46.00	12.01	100	324	PK	Vertical	PASS			

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

Report No.: GTS20250219002-1-04 Page 27 of 37

Adapter: CYZS36-240150



Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB)

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical Test Graph 70 60 40 30 20 30M 100M Frequency[Hz] QP Detector Suspected List Reading Factor Result Limit Margin Height Frequency [MHz] Angle Detector Polarity Remark NO [dBµV/m] [dB] [dBµV/m] [dBµV/m] [dB] [cm] [°] 31.455 47.07 -12.78 34.29 40.00 5.71 100 271 PΚ Vertical PASS PΚ 2 34.365 46.10 -12.5033.60 40.00 6.40 100 42 Vertical PASS 41.06 40.00 PK PASS 3 40.67 -11.85 29.21 10.79 100 82 Vertical 148.34 44.88 -14.22 30.66 43.50 12.84 100 PΚ Vertical PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB)

-5.71

37.04

36.79

5

6

374.835

891.36

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

31.33

38.77

Note: All modes have been tested and the worst mode is recorded in the report, NFC has three optional antennas, with the worst mode recorded in the report (NFC antenna Model:DS2-52).

46.00

46.00

14.67

277

100

100

PΚ

PΚ

PASS

Vertical

For 1GHz to 25GHz

BT LE Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.33	32.44	30.25	7.95	60.47	74.00	-13.53	Peak	Horizontal
4804.00	35.66	32.44	30.25	7.95	45.80	54.00	-8.20	Average	Horizontal
4804.00	54.82	32.44	30.25	7.95	64.96	74.00	-9.04	Peak	Vertical
4804.00	34.61	32.44	30.25	7.95	44.75	54.00	-9.25	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.12	32.52	30.31	8.12	59.45	74.00	-14.55	Peak	Horizontal
4880.00	37.97	32.52	30.31	8.12	48.30	54.00	-5.70	Average	Horizontal
4880.00	50.90	32.52	30.31	8.12	61.23	74.00	-12.77	Peak	Vertical
4880.00	36.53	32.52	30.31	8.12	46.86	54.00	-7.14	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.02	32.68	30.27	7.88	61.31	74.00	-12.69	Peak	Horizontal
4960.00	36.85	32.68	30.27	7.88	47.14	54.00	-6.86	Average	Horizontal
4960.00	49.98	32.68	30.27	7.88	60.27	74.00	-13.73	Peak	Vertical
4960.00	31.12	32.68	30.27	7.88	41.41	54.00	-12.59	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version A_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

BT LE Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	49.93	32.44	30.25	7.95	60.07	74.00	-13.93	Peak	Horizontal
4804.00	35.67	32.44	30.25	7.95	45.81	54.00	-8.19	Average	Horizontal
4804.00	53.77	32.44	30.25	7.95	63.91	74.00	-10.09	Peak	Vertical
4804.00	36.28	32.44	30.25	7.95	46.42	54.00	-7.58	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.77	32.52	30.31	8.12	60.10	74.00	-13.90	Peak	Horizontal
4880.00	37.90	32.52	30.31	8.12	48.23	54.00	-5.77	Average	Horizontal
4880.00	51.04	32.52	30.31	8.12	61.37	74.00	-12.63	Peak	Vertical
4880.00	35.82	32.52	30.31	8.12	46.15	54.00	-7.85	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	50.10	32.68	30.27	7.88	60.39	74.00	-13.61	Peak	Horizontal
4960.00	35.40	32.68	30.27	7.88	45.69	54.00	-8.31	Average	Horizontal
4960.00	49.81	32.68	30.27	7.88	60.10	74.00	-13.90	Peak	Vertical
4960.00	31.96	32.68	30.27	7.88	42.25	54.00	-11.75	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version B_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

Report No.: GTS20250219002-1-04 Page 30 of 37

BT LE Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.53	32.44	30.25	7.95	60.67	74.00	-13.33	Peak	Horizontal
4804.00	35.82	32.44	30.25	7.95	45.96	54.00	-8.04	Average	Horizontal
4804.00	54.86	32.44	30.25	7.95	65.00	74.00	-9.00	Peak	Vertical
4804.00	35.42	32.44	30.25	7.95	45.56	54.00	-8.44	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.14	32.52	30.31	8.12	59.47	74.00	-14.53	Peak	Horizontal
4880.00	37.62	32.52	30.31	8.12	47.95	54.00	-6.05	Average	Horizontal
4880.00	52.04	32.52	30.31	8.12	62.37	74.00	-11.63	Peak	Vertical
4880.00	36.03	32.52	30.31	8.12	46.36	54.00	-7.64	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	50.17	32.68	30.27	7.88	60.46	74.00	-13.54	Peak	Horizontal
4960.00	35.11	32.68	30.27	7.88	45.40	54.00	-8.60	Average	Horizontal
4960.00	50.17	32.68	30.27	7.88	60.46	74.00	-13.54	Peak	Vertical
4960.00	30.94	32.68	30.27	7.88	41.23	54.00	-12.77	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version C_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 5). Margin = Measured- Limit

Report No.: GTS20250219002-1-04 Page 31 of 37

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 15.247 Measurement Guidance v05r02 Section 8.3.1 Maximum peak conducted output power, 8.3.1.3 The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

<u>LIMIT</u>

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.3.

Report No.: GTS20250219002-1-04 Page 32 of 37

4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

- 1.Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2.Set the RBW =3 kHz.
- 3.Set the VBW =10 KHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5.Detector = peak.
- 6.Sweep time = auto couple.
- 7. Trace mode = \max hold.
- 8. Allow trace to fully stabilize.
- 9.Use the peak marker function to determine the maximum power level.
- 10.If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8 dBm.

LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.4.

Report No.: GTS20250219002-1-04 Page 33 of 37

4.5. 99% and 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB 558074 D01 DTS Meas Guidance v05r02 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

For reporting purpose only.

Please refer to Appendix B.1.

Please refer to Appendix B.2.

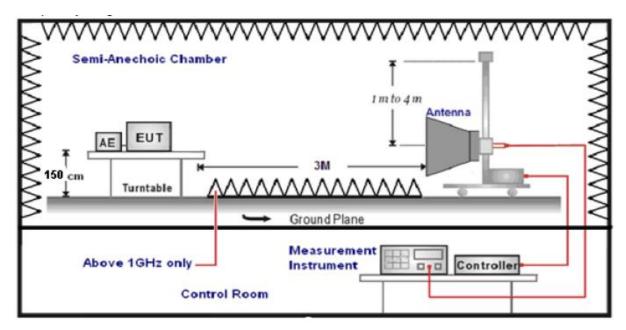
Report No.: GTS20250219002-1-04 Page 34 of 37

4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 1.5m above ground plane.
- 2.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.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed...
- 5. The distance between test antenna and EUT was 3 meter:
- 6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.

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)

Report No.: GTS20250219002-1-04 Page 35 of 37

TEST RESULTS

4.6.1 For Conducted at Restricted Band Measurement

For reporting purpose only.

Please refer to Appendix B.7.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix B.5.

4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix B.6.

Report No.: GTS20250219002-1-04 Page 36 of 37

4.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The antenna used for this product is Internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 3.36dBi.

Reference to the GTS20250219002-1-03.

Report No.: GTS20250219002-1-04 Page 37 of 37

5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: GTS20250219002-1-03.

6.	EXTERNAL	AND	INTERNAL	PHOTOS	ΟF	THE	EUT
----	----------	-----	----------	---------------	----	-----	-----

Reference to the Test Report: GTS20250219002-1-03.
End of Report