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

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No...... GTS20211218008-1-34

FCC ID.....: 2AYD5-I22D01

Compiled by

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

Supervised by

(position+printed name+signature) .: Test Engineer Jenny Zeng

Approved by

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

Date of issue Sep.08, 2022

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

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

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Test item description: POS Device

Trade Mark:

Manufacturer Imin Technology Pte Ltd

Model/Type reference : I22D01
Listed Models : N/A
Modulation Type : GFSK

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

Rating DC 24V/2.5A by adapter or

DC 24V/1.5A by adapter

Result PASS

Report No.: GTS20211218008-1-34 Page 2 of 30

TEST REPORT

Test Report No. :	GTS20211218008-1-34	Sep.08, 2022
rest Report No. :	G1020211210000-1-04	Date of issue

Equipment under Test : POS Device

Model /Type : I22D01

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.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: 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.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

KDB 558074 D01 DTS Meas Guidance v05r02: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Aug.08, 2022
Testing commenced on		Aug.08, 2022
Testing concluded on	:	Sep.07, 2022

2.2. Product Description

Product Name	POS Device
Trade Mark	imin
Model/Type reference	I22D01
List Models	N/A
Model Declaration	N/A
Power supply:	DC 24V/2.5A by adapter or DC 24V/1.5A by adapter
Sample ID	GTS20211218008-1-S0001-1#& GTS20211218008-1-S0001-2#
Bluetooth	
Operation frequency	2402-2480MHz
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)
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM
WIFI(5.2G/5.3G/5.7G Band	
Frequency Range	5180MHz ~ 5240MHz, 5260MHz ~ 5320MHz, 5500MHz ~ 5700MHz
Channel Number	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz)
Modulation Type	802.11a/n/ac: OFDM
WIFI (5.8G Band)	
Frequency Range	5745MHz ~ 5825MHz
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	802.11a/n/ac: OFDM
Antenna Description	FPC Antenna, 1.83dBi(Max.) for 2.4G Band and 2.24dBi(Max.) for 5G Band
Remark:The I22D01 mode Version A: One large display Version B: Only one large of	ay and one small display

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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.

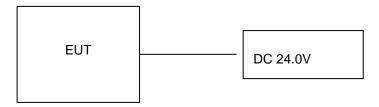
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

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).

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2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

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

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
JiangSu Sunward Electronic	Adapter	AD65CM240250A		SDOC
Technology Co., Ltd	Adapter	AD05CM240250A		SDOC
JiangSu Sunward Electronic	Adomtor	ADCCCM040450		CDOC
Technology Co., Ltd	Adapter	AD65CM240150		SDOC
LENOVO	Keyboard	T460S	1	SDOC
LENOVO	Mouse	Howard	-	SDOC

Note: The Keyboard and Mouse is only used for auxiliary testing.

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.2M, Unscreened Cable
USB Port	3	N/A
RS232 Port	2	N/A
LAN Port	1	N/A
HDMI Port	1	N/A

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

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-I22D01** 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.

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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.

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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	GTS20211218008-1- S0001-1#	/	/							
§15.247(b)	Maximum Conducted Output Power	GTS20211218008-1- S0001-1#	Compliant	Appendix B							
§15.247(e)	Power Spectral Density	GTS20211218008-1- S0001-1#	Compliant	Appendix B							
§15.247(a)(2)	6dB Bandwidth	GTS20211218008-1- S0001-1#	Compliant	Appendix B							
§2.1047	99% Occupied Bandwidth	GTS20211218008-1- S0001-1#	Compliant	Appendix B							
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20211218008-1- S0001-1#	Compliant	Appendix B							
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20211218008-1- S0001-1#		Note 1							
§15.205	Emissions at Restricted Band	GTS20211218008-1- S0001-1#	Compliant	Note 1							
§15.207(a)	AC Conducted Emissions	GTS20211218008-1- S0001-2#	Compliant	Note 1							
§15.203 §15.247(c)	Antenna Requirements	GTS20211218008-1- S0001-1#	Compliant	Note 1							
§15.247(i)§2.1 091	RF Exposure		Compliant	Note 2							

Remark:

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

3.6. Equipments Used during the Test

Report No.: GTS20211218008-1-34

				Calibrati	Calibration
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESCI7	101102	2021/09/19	2022/09/18
Spectrum Analyzer	Agilent	N9020A	MY48010425	2021/09/19	2022/09/18
Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Vector Signal generator	Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Signal generator	Agilent	N5182A	3610AO1069	2021/09/19	2022/09/18
Climate Chamber	ESPEC	EL-10KA	A20120523	2021/09/19	2022/09/18
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2021/11/07	2022/11/06
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2021/10/10	2022/11/09
Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021/11/07	2022/11/06
Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
Temperature/Humidi ty Meter	Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	KL142031	2022/07/13	2023/07/12
High-Pass Filter	K&L	41H10- 1375/U12750- O/O	KL142032	2022/07/13	2023/07/12
RF Cable(below 1GHz)	HUBER+SUHNE R	RG214	RE01	2022/07/13	2023/07/12
RF Cable(above 1GHz)	HUBER+SUHNE R	RG214	RE02	2022/07/13	2023/07/12
Data acquisition card	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
Automated filter bank	Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
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	/	/

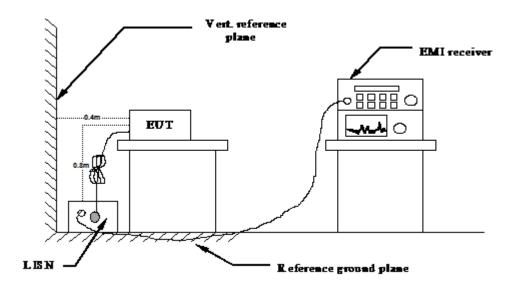
Note: 1. The Cal.Interval was one year.

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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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 24V power, the adapter received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

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 (dBuV)					
r requericy range (initiz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
* Decreases with the logarithm of the frequency.						

TEST RESULTS

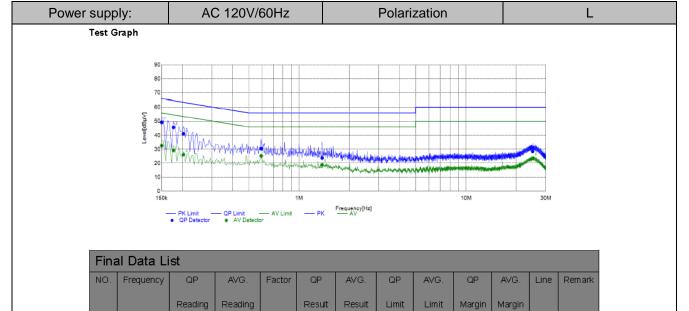
Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	Temperature 25°C		60%		
Test Engineer	Jenny Zeng	Configurations	BT		

Report No.: GTS20211218008-1-34 Page 12 of 30

Adapter: AD65CM240250A

Version A:



6 25.0468 19.28 14.26 9.27 28.55 Note: 1. Result (dBμV) = Reading (dBμV) + Factor (dB).

39.68

36.08

31.62

20.74

14.37

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

22.96

19.64

16.59

15.55

9.39

9.60

9.59

9.55

9.68

9.39

49.28

45.67

41.17

30.42

23.76

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

32.56

29.23

26.14

25.23

18.78

23.53

65.97

64.64

63.49

56.00

56.00

60.00

55.97

54.64

53.49

46.00

46.00

50.00

16.69

18.97

22.32

25.58

32.24

31.45

23.41

25.41

27.35

20.77

27.22

26.47

L1

PASS

PASS

PASS

PASS

PASS

PASS

Test Graph

3

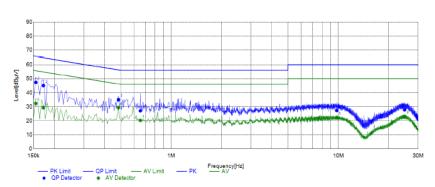
0.1506

0.1768

0.2030

0.5939

1.3752



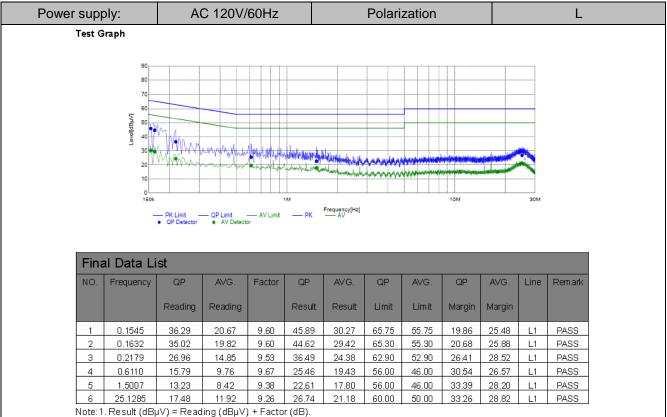
Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	⊔mit	Limit	Margin	Margin		
1	0.1548	37.80	22.70	9.61	47.41	32.31	65.74	55.74	18.33	23.43	N	PASS
2	0.1722	35.50	19.82	9.59	45.09	29.41	64.85	54.85	19.76	25.44	N	PASS
3	0.4837	25.67	20.01	9.41	35.08	29.42	56.27	46.27	21.19	16.85	N	PASS
4	0.6540	17.71	10.91	9.39	27.10	20.30	56.00	46.00	28.90	25.70	N	PASS
5	9.7819	18.06	13.00	9.28	27.34	22.28	60.00	50.00	32.66	27.72	N	PASS
6	24.9339	18.67	13.82	9.25	27.92	23.07	60.00	50.00	32.08	26.93	N	PASS

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

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

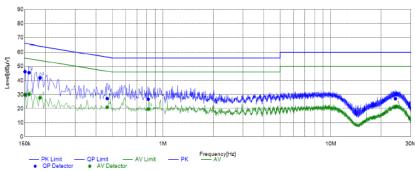
Report No.: GTS20211218008-1-34 Page 13 of 30

Version B:



2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
Test Graph			
90			



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	0.1511	36.66	20.20	9.61	46.27	29.81	65.94	55.94	19.67	26.13	N	PASS
2	0.1595	35.97	20.64	9.60	45.57	30.24	65.49	55.49	19.92	25.25	Z	PASS
3	0.1854	32.27	18.13	9.60	41.87	27.73	64.24	54.24	22.37	26.51	N	PASS
4	0.4657	17.73	11.56	9.43	27.16	20.99	56.59	46.59	29.43	25.60	N	PASS
5	0.8178	17.29	10.21	9.40	26.69	19.61	56.00	46.00	29.31	26.39	N	PASS
6	24.2721	17.75	12.16	9.25	27.00	21.41	60.00	50.00	33.00	28.59	N	PASS

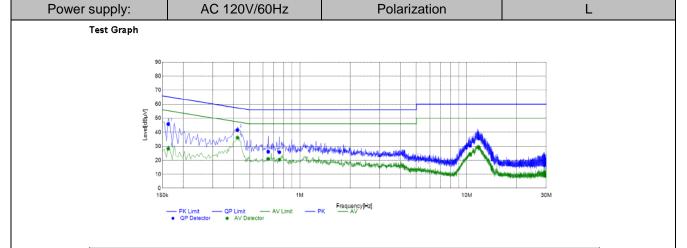
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB)

Report No.: GTS20211218008-1-34 Page 14 of 30

Adapter: AD65CM240150

Version A:



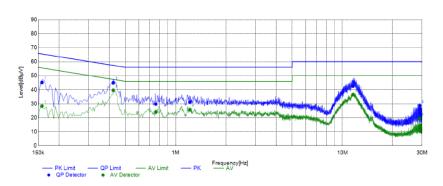
Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	∟imit	Limit	Margin	Margin		
1	0.1630	36.24	18.63	9.60	45.84	28.23	65.31	55.31	19.47	27.08	L1	PASS
2	0.4238	32.16	26.74	9.43	41.59	36.17	57.37	47.37	15.78	11.20	L1	PASS
3	0.6471	16.53	11.31	9.56	26.09	20.87	56.00	46.00	29.91	25.13	L1	PASS
4	0.7552	16.36	11.00	9.40	25.76	20.40	56.00	46.00	30.24	25.60	L1	PASS
5	10.5035	21.07	15.25	9.18	30.25	24.43	60.00	50.00	29.75	25.57	L1	PASS
6	11.7857	26.32	20.26	9.17	35.49	29.43	60.00	50.00	24.51	20.57	L1	PASS

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

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

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

Test Graph



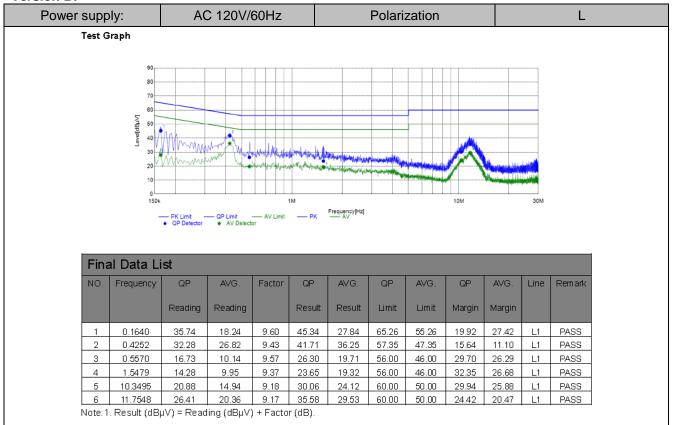
Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1582	35.65	18.73	9.60	45.25	28.33	65.56	55.56	20.31	27.23	N	PASS
2	0.4238	35.55	30.11	9.46	45.01	39.57	57.37	47.37	12.36	7.80	N	PASS
3	0.7605	20.33	14.73	9.40	29.73	24.13	56.00	46.00	26.27	21.87	N	PASS
4	1.2177	21.88	16.40	9.38	31.26	25.78	56.00	46.00	24.74	20.22	N	PASS
5	11.5779	33.26	27.31	9.25	42.51	36.56	60.00	50.00	17.49	13.44	N	PASS
6	29.0640	19.33	10.17	9.25	28.58	19.42	60.00	50.00	31.42	30.58	N	PASS

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

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

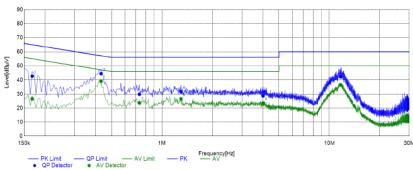
Report No.: GTS20211218008-1-34 Page 15 of 30

Version B:



2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
Test Graph			
9			



Fina	al Data Li	st										
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	⊔mit	Limit	Margin	Margin		
1	0.1678	33.10	16.92	9.59	42.69	26.51	65.07	55.07	22.38	28.56	N	PASS
2	0.4327	35.07	29.64	9.45	44.52	39.09	57.20	47.20	12.68	8.11	Ν	PASS
3	0.7330	20.37	14.29	9.40	29.77	23.69	56.00	46.00	26.23	22.31	N	PASS
4	1.3015	22.31	17.14	9.37	31.68	26.51	56.00	46.00	24.32	19.49	N	PASS
5	4.0174	19.28	14.12	9.40	28.68	23.52	56.00	46.00	27.32	22.48	N	PASS
6	11.6839	33.05	27.28	9.25	42.30	36.53	60.00	50.00	17.70	13.47	N	PASS

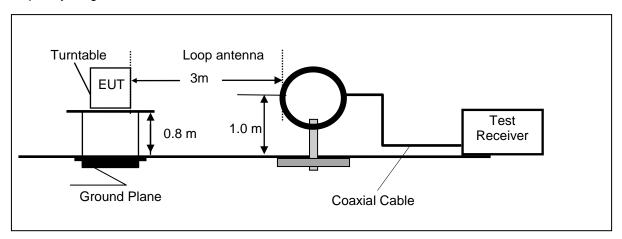
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB)

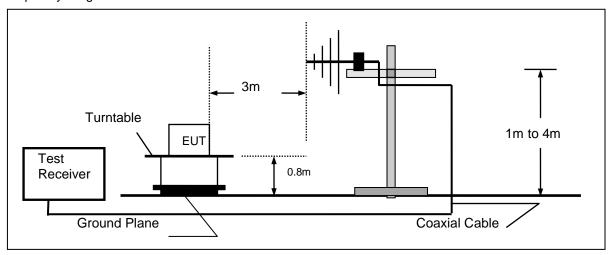
4.2. Radiated Emission

TEST CONFIGURATION

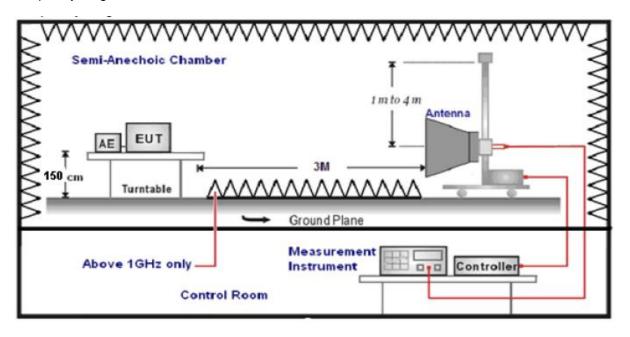
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



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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	150KHz	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,	
1GHz-4	40CU -	Sweep time=Auto	Peak
IGHZ-2	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

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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	60%
Test Engineer	Jenny Zeng	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.

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For 30MHz to 1000MHz Adapter: AD65CM240250A

Version A:

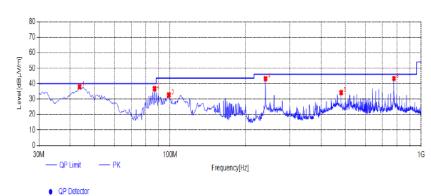
Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	45.0350	29.76	-6.51	23.25	40.00	16.75	100	352	PK	Horizonta	PASS
2	94.5050	43.13	-9.31	33.82	43.50	9.68	100	279	PK	Horizonta	PASS
3	119.7250	48.39	-10.06	38.33	43.50	5.17	100	78	PK	Horizonta	PASS
4	240.0050	51.98	-8.62	43.36	46.00	2.64	100	343	PK	Horizonta	PASS
5	316.6350	38.33	-7.13	31.20	46.00	14.80	100	336	PK	Horizonta	PASS
6	800.1800	33.87	1.22	35.09	46.00	10.91	100	330	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





Susp	pected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[2]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	43.5800	44.67	-6.73	37.94	40.00	2.06	100	118	PK	Vertical	PASS
2	86.7450	47.69	-10.88	36.81	40.00	3.19	100	196	PK	Vertical	PASS
3	98.8700	41.23	-8.54	32.69	43.50	10.81	100	260	PK	Vertical	PASS
4	240.0050	51.81	-8.62	43.19	46.00	2.81	100	346	PK	Vertical	PASS
5	480.0800	38.10	-3.89	34.21	46.00	11.79	100	354	PK	Vertical	PASS
6	780.2950	42.25	1.09	43.34	46.00	2.66	100	338	PK	Vertical	PASS

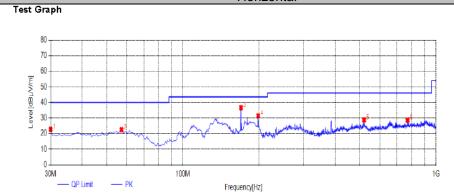
Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB) .

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

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Version B:

Horizontal



QP Detector

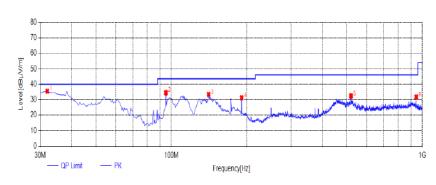
Susp	pected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[2]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	30.0000	32.47	-9.76	22.71	40.00	17.29	100	153	PK	Horizonta	PASS
2	57.1600	29.58	-7.08	22.50	40.00	17.50	100	204	PK	Horizonta	PASS
3	169.6800	48.02	-11.34	36.68	43.50	6.82	100	30	PK	Horizonta	PASS
4	198.2950	40.61	-9.08	31.53	43.50	11.97	100	76	PK	Horizonta	PASS
5	519.8500	31.66	-2.88	28.78	46.00	17.22	100	140	PK	Horizonta	PASS
6	772.0500	27.79	0.89	28.68	46.00	17.32	100	41	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	31.9400	45.51	-9.97	35.54	40.00	4.46	100	124	PK	Vertical	PASS			
2	94.9900	43.79	-9.25	34.54	43.50	8.96	100	94	PK	Vertical	PASS			
3	140.5800	45.87	-12.39	33.48	43.50	10.02	100	16	PK	Vertical	PASS			
4	190.5350	41.65	-10.28	31.37	43.50	12.13	100	197	PK	Vertical	PASS			
5	519.8500	35.37	-2.88	32.49	46.00	13.51	100	162	PK	Vertical	PASS			
6	946.1650	29.72	2.07	31.79	46.00	14.21	100	68	PK	Vertical	PASS			

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

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

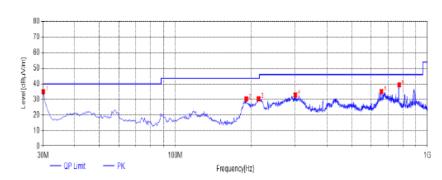
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Adapter: AD65CM240150

Version A:

Horizontal





QP Detector

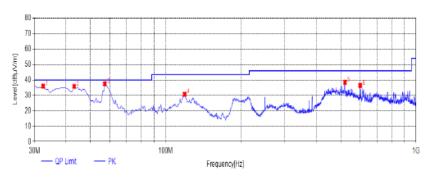
Susp	Suspected List													
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark			
		[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	٦						
1	30.0000	44.69	-9.76	34,93	40.00	5.07	100	151	PK	Horizonta	PASS			
2	191.5050	40.29	-9.98	30.31	43.50	13.19	100	224	PK	Horizonta	PASS			
3	214.3000	39.87	-9.46	30.41	43.50	13.09	100	211	PK	Horizonta	PASS			
4	299.6600	40.19	-7.43	32.76	46.00	13.24	100	135	PK	Horizonta	PASS			
5	658.0750	35.70	-0.64	35.06	46.00	10.94	100	31	PK	Horizonta	PASS			
6	773.9900	38.39	1.01	39.40	46.00	6.60	100	18	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	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]	۳۱			
1	32.4250	45.74	-9.79	35,95	40.00	4.05	100	26	PK	Vertical	PASS
2	43.0950	42.61	-6.84	35.77	40.00	423	100	259	PK	Vertical	PASS
3	57.1600	44.57	-7.08	37.49	40.00	2.51	100	344	PK	Vertical	PASS
4	119.2400	40.66	-9.91	30.75	43.50	12.75	100	259	PK	Vertical	PASS
5	520.8200	41.39	-2.91	38.48	46.00	7.52	100	198	PK	Vertical	PASS
6	599.3900	38.12	-1.64	36.48	46.00	9.52	100	144	PK	Vertical	PASS

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

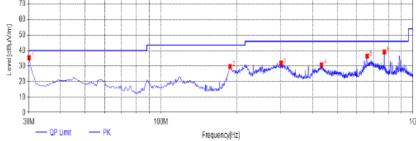
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

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Horizontal

Version B:

Test Graph 80 70 60 E co



QP Detector

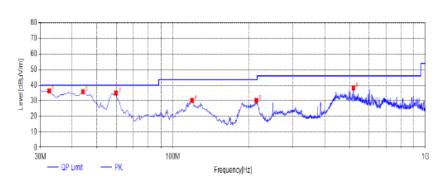
Susp	pected Lis	st .									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
		[dBµV/m]	[48]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	۳۱			
1	30.0000	45.14	-9.76	35.38	40.00	4.62	100	140	PK	Horizonta	PASS
2	188.1100	39.74	-10.07	29.67	43.50	13.83	100	226	PK	Horizonta	PASS
3	300.1460	39.37	-7.42	31.95	46.00	14.05	100	172	PK	Horizonta	PASS
4	434.0050	35.21	-4.35	30.86	46.00	15.14	100	98	PK	Horizonta	PASS
5	659.0460	37.02	-0.63	36.39	46.00	9.61	100	31	PK	Horizonta	PASS
6	770.5950	38.29	0.80	39.09	46.00	6.91	100	15	PK	Horizonta	PASS

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

 $2.\,Factor\,(dB) = Antenna\,Factor\,(dB/m) + C\,able\,loss\,(dB) - Pre\,Am\,plifier\,gain\,(dB).$

Vertical





QP Detector

Susp	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]	۳۱			
1	32.4250	46.10	-9.79	36.31	40.00	3.69	100	90	PK	Vertical	PASS
2	44.0650	42.35	-6.63	35.72	40.00	428	100	14	PK	Vertical	PASS
3	59.5850	43.18	-8.24	34.94	40.00	5.06	100	145	PK	Vertical	PASS
4	119.2400	40.07	-9.91	30.16	43.50	13.34	100	218	PK	Vertical	PASS
5	214.3000	39.59	-9.46	30.13	43.50	13.37	100	145	PK	Vertical	PASS
6	519.3650	41.18	-2.91	38.27	46.00	7.73	100	208	PK	Vertical	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).

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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	49.57	32.44	30.25	7.95	59.71	74.00	-14.29	Peak	Horizontal
4804.00	35.45	32.44	30.25	7.95	45.59	54.00	-8.41	Average	Horizontal
4804.00	52.98	32.44	30.25	7.95	63.12	74.00	-10.88	Peak	Vertical
4804.00	35.82	32.44	30.25	7.95	45.96	54.00	-8.04	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	50.76	32.52	30.31	8.12	61.09	74.00	-12.91	Peak	Horizontal
4880.00	37.90	32.52	30.31	8.12	48.23	54.00	-5.77	Average	Horizontal
4880.00	52.52	32.52	30.31	8.12	62.85	74.00	-11.15	Peak	Vertical
4880.00	36.99	32.52	30.31	8.12	47.32	54.00	-6.68	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	51.23	32.68	30.27	7.88	61.52	74.00	-12.48	Peak	Horizontal
4960.00	35.01	32.68	30.27	7.88	45.30	54.00	-8.70	Average	Horizontal
4960.00	48.49	32.68	30.27	7.88	58.78	74.00	-15.22	Peak	Vertical
4960.00	30.86	32.68	30.27	7.88	41.15	54.00	-12.85	Average	Vertical

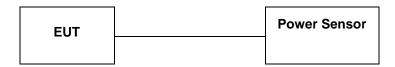
Notes:

- 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

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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

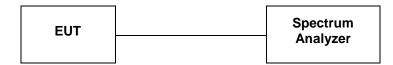
For reporting purpose only.

Please refer to Appendix B.3.

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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

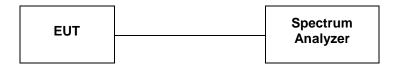
For reporting purpose only.

Please refer to Appendix B.4.

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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.

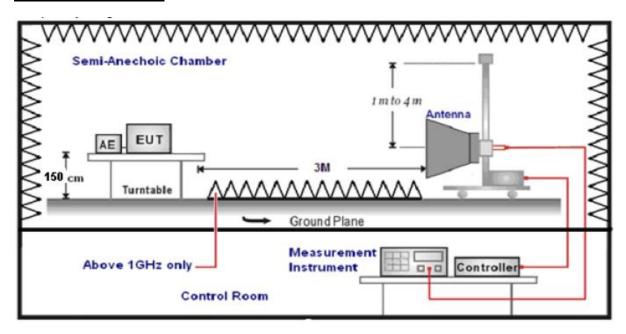
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4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

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 §15.209(a) (see §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)

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TEST RESULTS

4.6.1 For Radiated Bandedge Measurement

Temperature	23.8℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	BT

Frequency	y(MHz):			2402			Polarity:		HORIZONTAL		
Frequency (MHz)	Emissi Leve (dBuV/	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	45.65	PK	74.00	-28.35	1	72	50.96	27.49	3.32	36.12	-5.31
2390.00	34.22	ΑV	54.00	-19.78	1	72	39.53	27.49	3.32	36.12	-5.31
Frequenc	y(MHz):			2402			Polarity:			VERTI	CAL
Frequency (MHz)	Emissi Leve (dBuV/	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	50.15	PK	74.00	-23.85	1	280	55.46	27.49	3.32	36.12	-5.31
2390.00	31.57	ΑV	54.00	-22.43	1	280	36.88	27.49	3.32	36.12	-5.31
Frequenc	y(MHz):			2480			Polarity:		ŀ	HORIZO	NTAL
Frequency (MHz)	Emissi Leve		Limit	Margin	Antenna Height	Table	Raw	Antenna	Cable	Pre-	Correction Factor
(1711 12)	(dBuV/		(dBuV/m)	(dB)	(m)	Angle (Degree)	Value (dBuV)	Factor (dB/m)	(dB)	amplifi er	(dB/m)
2483.50	(dBuV/ 45.04		(dBuV/m) 74.00	(dB) -28.96		-				•	
, ,	`	/m)	,	, ,	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	er	(dB/m)
2483.50	45.04 33.53	m) PK	74.00	-28.96	(m) 1	(Degree) 186	(dBuV) 50.76	(dB/m) 27.45	(dB) 3.38	er 36.55	(dB/m) -5.72 -5.72
2483.50 2483.50	45.04 33.53	PK AV ion	74.00	-28.96 -20.47	(m) 1	(Degree) 186	(dBuV) 50.76 39.25	(dB/m) 27.45 27.45 Antenna	(dB) 3.38 3.38 Cable	er 36.55 36.55	(dB/m) -5.72 -5.72
2483.50 2483.50 Frequency	45.04 33.53 y(MHz): Emissi Leve	PK AV ion	74.00 54.00 Limit	-28.96 -20.47 2480 Margin	(m) 1 1 Antenna Height	(Degree) 186 186 Table Angle	(dBuV) 50.76 39.25 Polarity: Raw Value	(dB/m) 27.45 27.45 Antenna Factor	(dB) 3.38 3.38 Cable Factor	er 36.55 36.55 VERTI Pre- amplifi	(dB/m) -5.72 -5.72 CAL Correction Factor

REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

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.

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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 FPC 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 1.83dBi.

Reference to the Test Report: GTS20211218008-1-33.

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5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: GTS20211218008-1-33.

6.	EXTERNAL	AND	INTERNAL	PHOTOS	ΟF	THE	EUI	
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Reference to the Test Report: GTS20211218008-1-33.
End of Report