

**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.....: GTS20250819018-2-03****FCC ID.....: 2AG7C-BABY1T-6062**

Compiled by

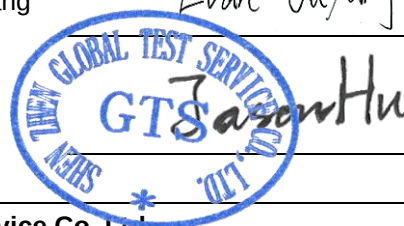
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Date of issue: Sep.29, 2025

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

Address

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

Applicant's name.....: Hangzhou Meari Technology Co., Ltd.

Address

Building 4, Huiding Intelligent Innovation Center, No. 825, Ruquan Road, Changhe Street, Binjiang District, Hangzhou, Zhejiang, China

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: Baby Monitor

Trade Mark: N/A

Manufacturer: Hangzhou Meari Technology Co., Ltd.

Model/Type reference: Baby 1T

Listed Models: Baby 1S, Baby 1Q, Baby 1SM, Baby 1TM, Baby 1QM, Speed 9S, Speed 9T, KASMBMPT09A, Baby 9T, Baby 9Q, Baby 9F, Baby 10T, Baby 10Q, Baby 10F, Baby 11T, Baby 11Q, Speed 5T, Speed 5Q, Speed 5F, Baby 6T, Baby 6TM, Baby 6QM

Hardware Version: BABY1S-T3MB-GC1-REV2_2

Software Version: N/A

Rating: DC 5.0V by Adapter

Result: **PASS**

TEST REPORT

Test Report No. : GTS20250819018-2-03	Sep.29, 2025 Date of issue
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Equipment under Test : Baby Monitor

Model /Type : Baby 1T

Listed model : Baby 1S, Baby 1Q, Baby 1SM, Baby 1TM, Baby 1QM ,Speed 9S, Speed 9T, KASMBMPT09A, Baby 9T, Baby 9Q, Baby 9F, Baby 10T, Baby 10Q, Baby 10F, Baby 11T, Baby 11Q, Speed 5T, Speed 5Q, Speed 5F, Baby 6T, Baby 6TM, Baby 6QM

Applicant : **Hangzhou Meari Technology Co., Ltd.**

Address : Building 4, Huiding Intelligent Innovation Center, No. 825, Ruquan Road, Changhe Street, Binjiang District, Hangzhou, Zhejiang, China

Manufacturer : **Hangzhou Meari Technology Co., Ltd.**

Address : 2nd to 4th Floor, Building 2 and 3rd to 4th Floor, Building 1, No. 91, Chutian Road, Xixing Street, Binjiang District, Hangzhou, Zhejiang

Test Result:	PASS
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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 C63.10-2020+Cor.1-2023+C63.10a-2024](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 DTS Meas Guidance v05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Aug 21, 2025
	:	
Testing commenced on	:	Aug 21, 2025
	:	
Testing concluded on	:	Sep.28, 2025

2.2. Product Description

Product Name	Baby Monitor
Trade Mark	N/A
Model/Type reference	Baby 1T
List Models	Baby 1S, Baby 1Q, Baby 1SM, Baby 1TM, Baby 1QM ,Speed 9S, Speed 9T, KASMBMPT09A, Baby 9T, Baby 9Q, Baby 9F, Baby 10T, Baby 10Q, Baby 10F, Baby 11T, Baby 11Q, Speed 5T, Speed 5Q, Speed 5F, Baby 6T, Baby 6TM, Baby 6QM
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different , So no additional models were tested.
Power supply:	DC 5.0V by Adapter
Sample ID	:GTS20250819018-2-S0001-1#&GTS20250819018-2-S0001-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	40 channels for Bluetooth (DTS)
Channel Spacing	2MHz for Bluetooth (DTS)
Modulation Type	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
Antenna Description	Metal Antenna,1.94dBi(Max.) for 2.4G Band
SRD	
Frequency Range	905-925MHz
Channel Number	11Channel
Channel Spacing	2MHz
Modulation Type	OFDM
Antenna Description	FPC Antenna,-0.76dBi(Max.)

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 5.0V

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

This is a Baby Monitor .
For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
(SRD)	905	1
	915	1
	925	1
For Conducted Emission		
Test Mode		TX Mode
For Radiated Emission		
Test Mode		TX Mode

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	905	6	917
1	907	7	919
2	909	8	921
3	911	9	923
4	913	10	925
5	915		

The EUT has been tested under operating condition.

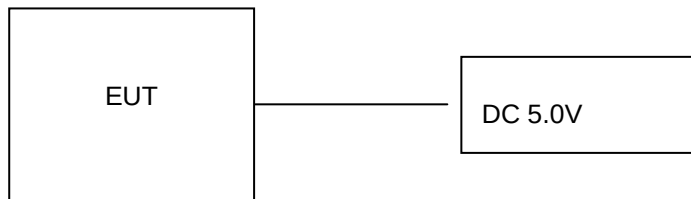
This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

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 SRD 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 SRD mode(MCH).

2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

The system enters the engineering mode through the instructions provided by the application (XCOM V2.2)tests under continuous transmission conditions, and changes the test channel.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPA-46B050100UU	--	SDOC
Zhuzhou Dachuan Electronic Technology Co.,Ltd.	Adapter	DCT07W050100US-C1	--	SDOC
Zhuzhou Dachuan Electronic Technology Co.,Ltd.	Adapter	DCT10W050200US-C0	--	FCC

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
SD Card Port	1	N/A

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

This submittal(s) (test report) is intended for **FCC ID: 2AG7C-BABY1T-6062** 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.

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 is 165725.

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.

3.5. Test Description

Applied Standard: FCC Part 15 Subpart C				
ISED Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	GTS20250819018-2-S0001-1#	/	/
§15.247(b)	Maximum Conducted Output Power	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§15.247(e)	Power Spectral Density	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§15.247(a)(2)	6dB Bandwidth	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§2.1047	99% Occupied Bandwidth	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20250819018-2-S0001-1# GTS20250819018-2-S0001-2#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20250819018-2-S0001-1#	Compliant	Appendix C
§15.207(a)	AC Conducted Emissions	GTS20250819018-2-S0001-2#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20250819018-2-S0001-1#	Compliant	Note 1
§15.247(i)§2.1091	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

3.6. Equipments Used during the Test

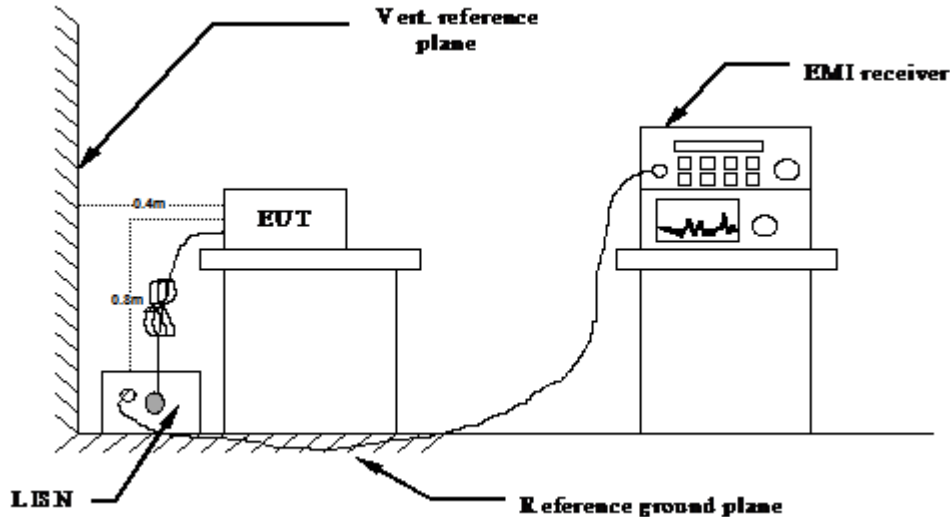
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Artificial Mains	CYBERTEK	EM5040A	E1850400205	2025/07/07	2026/07/06
LISN	R&S	ESH2-Z5	893606/008	2025/07/07	2026/07/06
EMI Test Receiver	R&S	ESPI 3	/	2025/07/04	2026/07/03
Test Receiver	R&S	ESCI 7	101102	2025/07/04	2026/07/03
Spectrum Analyzer	Agilent	N9020A	MY48010425	2025/07/04	2026/07/03
Spectrum Analyzer	R&S	FSV40-N	101800	2025/07/04	2026/07/03
Vector Signal generator	Agilent	N5181A	MY49060502	2025/07/15	2026/07/14
Signal generator	Agilent	N5182A	MY50141550	2025/07/04	2026/07/03
Climate Chamber	ESPEC	EL-10KA	A20120523	2025/07/15	2026/07/14
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	/	2025/07/04	2026/07/03
By-log Antenna	SCHWARZBECK	VULB9163	00976	2025/07/15	2026/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2025/07/15	2026/07/14
Amplifier	SKET	LAPA_30M01G-32	SK20240104001	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	HUATU	HTC-1	/	2025/07/16	2026/07/15
High-Pass Filter	Stest	1	/	2025/07/04	2026/07/03
High-Pass Filter	Stest	2	/	2025/07/04	2026/07/03
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2025/07/15	2026/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2025/07/15	2026/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2025/07/15	2026/07/14
Power Sensor	Keysight	E9301A	MY41495308	2025/07/04	2026/07/03
Control Unit	Tonscend	JS0806-2	/	2025/07/07	2026/07/06
Control Unit	Tonscend	JS0806-2	/	2025/07/07	2026/07/06
integrated measuring instrument	R&S	CMW500	107519	2025/07/04	2026/07/03
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.

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 ANSIC63.10-2020+Cor.1-2023+C63.10a-2024.
- 2 Support equipment, if needed, was placed as per ANSIC63.10-2020+Cor.1-2023+C63.10a-2024
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSIC63.10-2020+Cor.1-2023+C63.10a-2024
- 4 The EUT received DC 5V 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 (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

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:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
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RA = Reading Amplitude

PL = 10 dB Pulse Limiter Factor

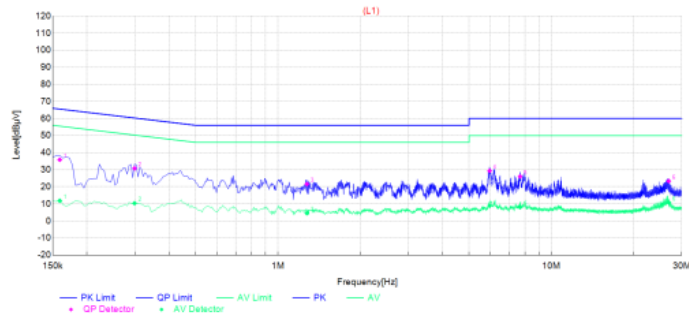
TEST RESULTS

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

Temperature	25°C	Humidity	60%
Test Engineer	Evan Ouyang	Configurations	SRD

Adapter: TPA-46B050100UU

Power supply:	AC 120V/60Hz	Polarization	L
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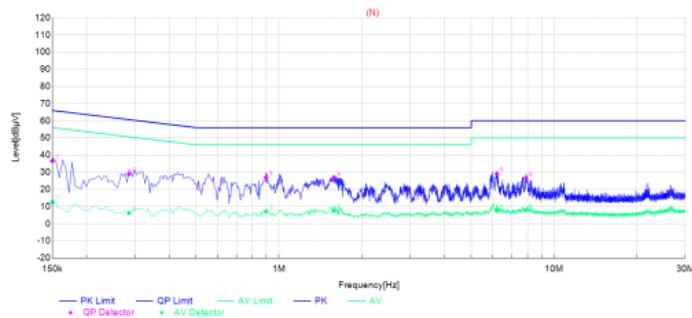
Test Graph**Final Data List**

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	25.52	1.51	10.31	35.83	11.82	65.52	55.52	29.69	43.70	L1	PASS
2	0.2985	20.69	0.24	10.10	30.79	10.34	60.28	50.28	29.49	39.94	L1	PASS
3	1.275	11.39	-5.66	10.22	21.61	4.56	56.00	46.00	34.39	41.44	L1	PASS
4	5.946	18.84	-1.61	10.48	29.32	8.87	60.00	50.00	30.68	41.13	L1	PASS
5	7.6875	15.45	-2.51	10.55	26.00	8.04	60.00	50.00	34.00	41.96	L1	PASS
6	26.88	11.62	-0.90	11.69	23.31	10.79	60.00	50.00	36.69	39.21	L1	PASS

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

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph**Final Data List**

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	26.25	2.25	10.35	36.60	12.60	66.00	56.00	29.40	43.40	N	PASS
2	0.285	18.88	-3.92	10.10	28.98	6.18	60.67	50.67	31.69	44.49	N	PASS
3	0.897	16.73	-3.12	10.23	26.96	7.11	56.00	46.00	29.04	38.89	N	PASS
4	1.581	16.43	-2.62	10.24	26.67	7.62	56.00	46.00	29.33	38.38	N	PASS
5	6.189	18.66	-2.92	10.49	29.15	7.57	60.00	50.00	30.85	42.43	N	PASS
6	7.8945	15.89	-2.70	10.57	26.46	7.87	60.00	50.00	33.54	42.13	N	PASS

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

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

Adapter: DCT07W050100US-C1

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

Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	24.28	-1.75	10.33	34.61	8.58	65.75	55.75	31.14	47.17	L1	PASS
2	0.2175	23.87	-0.06	10.14	34.01	10.08	62.91	52.91	28.90	42.83	L1	PASS
3	0.4155	17.35	-1.25	10.18	27.53	8.93	57.54	47.54	30.01	38.61	L1	PASS
4	1.266	13.15	-6.20	10.22	23.37	4.02	56.00	46.00	32.63	41.98	L1	PASS
5	6.216	20.00	-2.03	10.49	30.49	8.46	60.00	50.00	29.51	41.54	L1	PASS
6	7.701	17.61	-0.96	10.55	28.16	9.59	60.00	50.00	31.84	40.41	L1	PASS

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

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

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

Test Graph

Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	25.75	2.22	10.35	36.10	12.57	66.00	56.00	29.90	43.43	N	PASS
2	0.1995	23.84	-1.45	10.15	33.99	8.70	63.63	53.63	29.64	44.93	N	PASS
3	0.4335	17.62	-0.28	10.20	27.82	9.92	57.19	47.19	29.37	37.27	N	PASS
4	1.5405	19.42	-1.41	10.24	29.66	8.83	56.00	46.00	26.34	37.17	N	PASS
5	5.9415	19.44	-0.74	10.48	29.92	9.74	60.00	50.00	30.08	40.26	N	PASS
6	7.9035	16.36	-1.55	10.57	26.93	9.02	60.00	50.00	33.07	40.98	N	PASS

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

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

Adapter: DCT10W050200US-C0

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

Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	26.95	-0.66	10.33	37.28	9.67	65.75	55.75	28.47	46.08	L1	PASS
2	0.1995	26.41	-0.11	10.15	36.56	10.04	63.63	53.63	27.07	43.59	L1	PASS
3	0.303	21.29	-0.76	10.11	31.40	9.35	60.16	50.16	28.76	40.81	L1	PASS
4	1.014	14.08	-2.55	10.20	24.28	7.65	56.00	46.00	31.72	38.35	L1	PASS
5	6.189	17.76	0.20	10.49	28.25	10.69	60.00	50.00	31.75	39.31	L1	PASS
6	7.9935	18.50	-0.75	10.57	29.07	9.82	60.00	50.00	30.93	40.18	L1	PASS

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

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

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

Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.2085	24.54	-2.10	10.15	34.69	8.05	63.26	53.26	28.57	45.21	N	PASS
2	0.438	18.62	-3.28	10.20	28.82	6.92	57.10	47.10	28.28	40.18	N	PASS
3	1.0185	18.90	-4.35	10.20	29.10	5.85	56.00	46.00	26.90	40.15	N	PASS
4	1.3875	16.83	-5.38	10.23	27.06	4.85	56.00	46.00	28.94	41.15	N	PASS
5	5.9595	17.30	-0.36	10.48	27.78	10.12	60.00	50.00	32.22	39.88	N	PASS
6	7.7235	15.67	-1.64	10.56	26.23	8.92	60.00	50.00	33.77	41.08	N	PASS

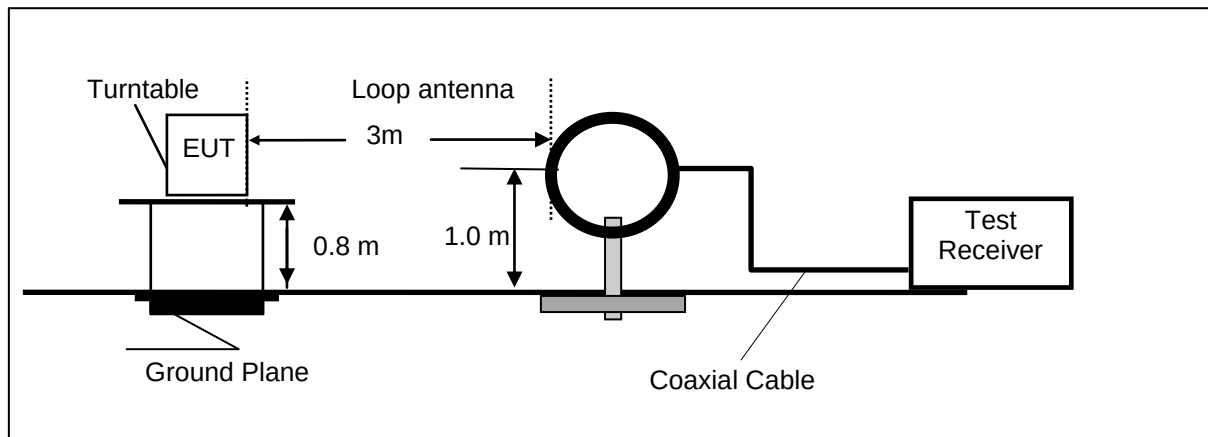
Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

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

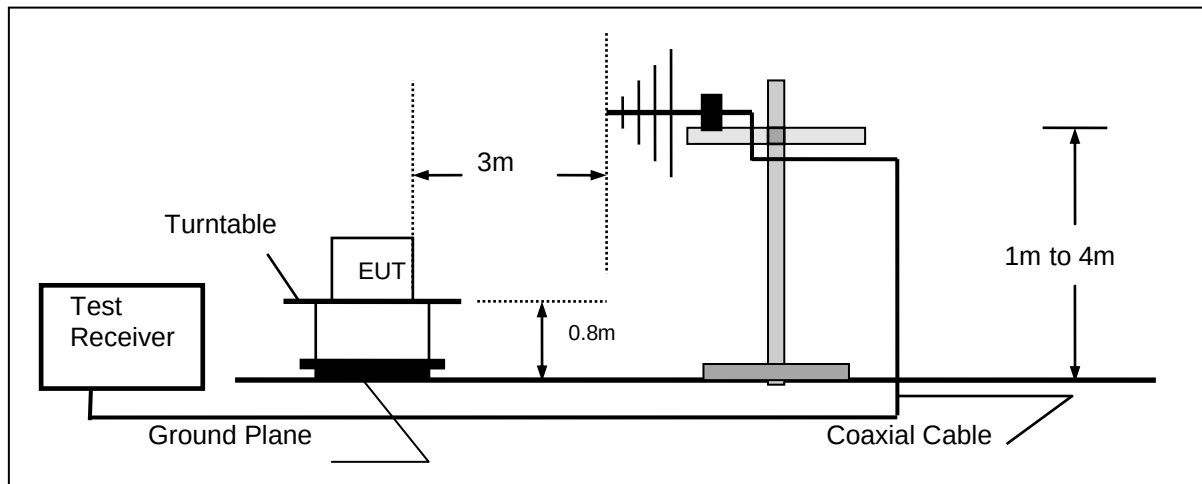
4.2. Radiated Emission

TEST CONFIGURATION

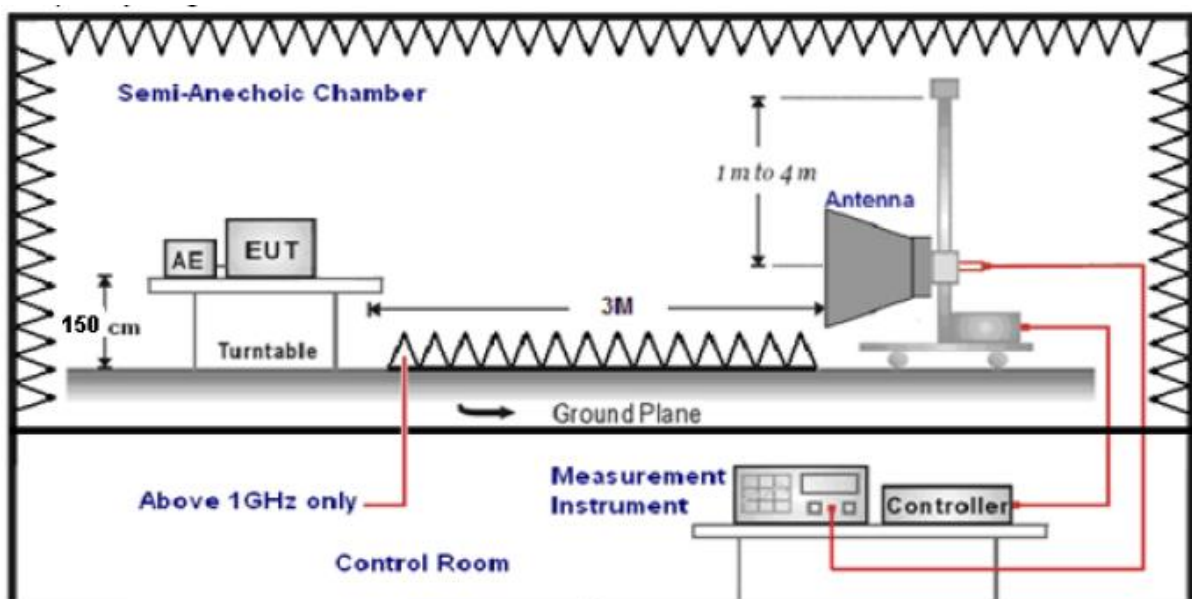
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



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 Antenna	1

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

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

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	

$$\text{Transd} = AF + CL - AG$$

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 the 100kHz 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	$20\log(2400/F(\text{KHz})) + 40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz})) + 40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30) + 40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark: We measured Radiated Emission at OFDM mode from 30 MHz to 25GHz in AC120V and the worst case was recorded.

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

For 9 KHz~30MHz

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

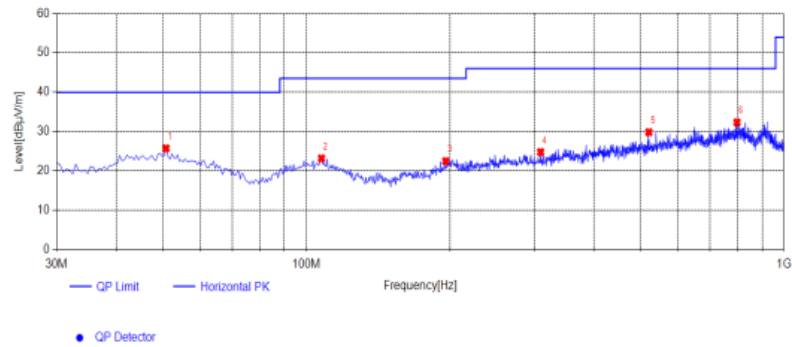
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

Adapter: TPA-46B050100UU
For 30MHz to 1000MHz

Horizontal

Test Graph



Suspected List

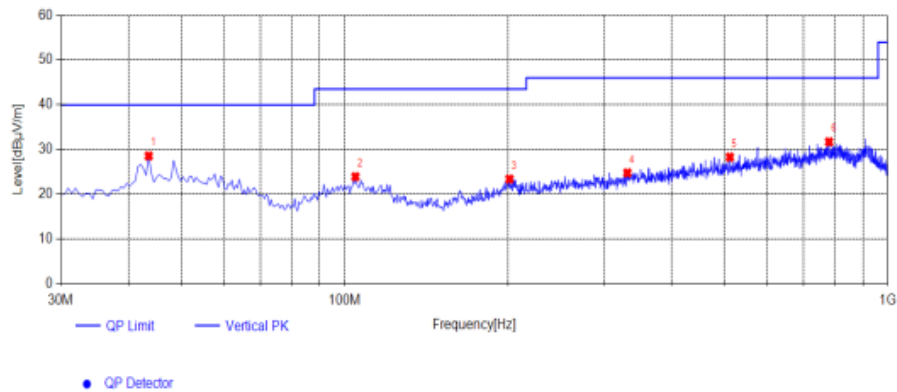
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	50.855	28.66	-2.95	25.71	40.00	14.29	100	160	PK	Horizontal	PASS
2	107.6	26.92	-3.76	23.16	43.50	20.34	100	90	PK	Horizontal	PASS
3	195.87	27.05	-4.59	22.46	43.50	21.04	100	80	PK	Horizontal	PASS
4	309.36	26.74	-1.97	24.77	46.00	21.23	100	140	PK	Horizontal	PASS
5	521.305	26.91	2.93	29.84	46.00	16.16	100	110	PK	Horizontal	PASS
6	797.27	25.22	7.12	32.34	46.00	13.66	100	240	PK	Horizontal	PASS

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

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	43.58	32.05	-3.49	28.56	40.00	11.44	100	300	PK	Vertical	PASS
2	104.69	28.04	-4.13	23.91	43.50	19.59	100	120	PK	Vertical	PASS
3	201.205	27.33	-3.95	23.38	43.50	20.12	100	30	PK	Vertical	PASS
4	331.67	25.92	-1.15	24.77	46.00	21.23	100	230	PK	Vertical	PASS
5	512.09	25.70	2.59	28.29	46.00	17.71	100	350	PK	Vertical	PASS
6	779.81	24.70	7.01	31.71	46.00	14.29	100	150	PK	Vertical	PASS

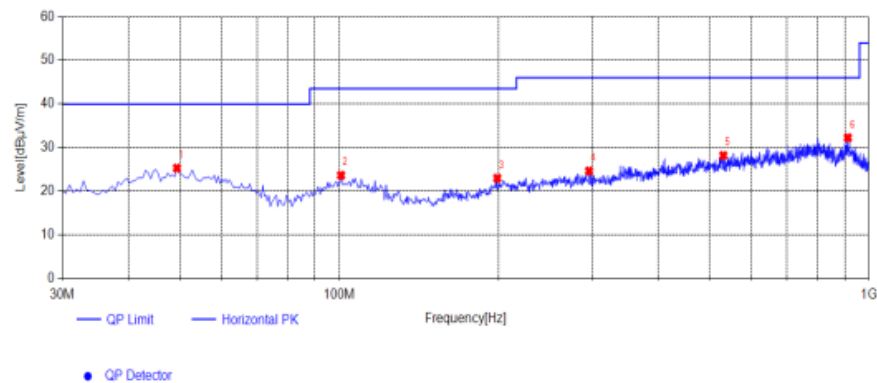
Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Adapter: DCT07W050100US-C1
For 30MHz to 1000MHz

Horizontal

Test Graph



Suspected List

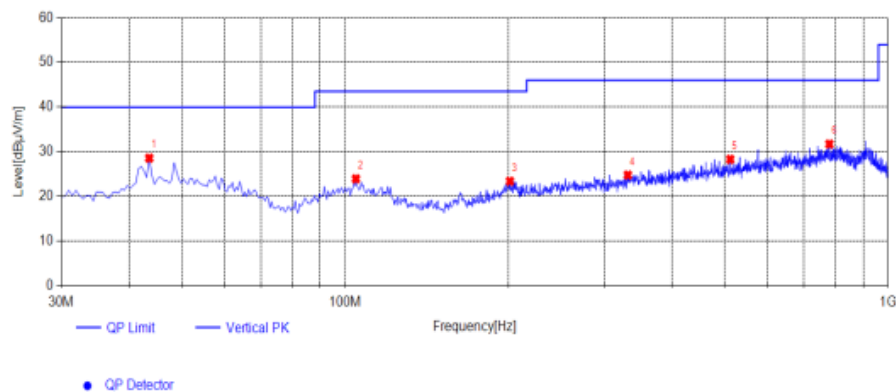
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	49.4	28.40	-3.12	25.28	40.00	14.72	100	290	PK	Horizontal	PASS
2	100.81	28.41	-4.78	23.63	43.50	19.87	100	200	PK	Horizontal	PASS
3	198.78	27.27	-4.31	22.96	43.50	20.54	100	120	PK	Horizontal	PASS
4	296.265	27.07	-2.45	24.62	46.00	21.38	100	140	PK	Horizontal	PASS
5	531.005	25.26	2.90	28.16	46.00	17.84	100	160	PK	Horizontal	PASS
6	912.215	23.93	8.31	32.24	46.00	13.76	100	20	PK	Horizontal	PASS

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

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	43.58	32.05	-3.49	28.56	40.00	11.44	100	300	PK	Vertical	PASS
2	104.69	28.04	-4.13	23.91	43.50	19.59	100	120	PK	Vertical	PASS
3	201.205	27.33	-3.95	23.38	43.50	20.12	100	30	PK	Vertical	PASS
4	331.67	25.92	-1.15	24.77	46.00	21.23	100	230	PK	Vertical	PASS
5	512.09	25.70	2.59	28.29	46.00	17.71	100	350	PK	Vertical	PASS
6	779.81	24.70	7.01	31.71	46.00	14.29	100	150	PK	Vertical	PASS

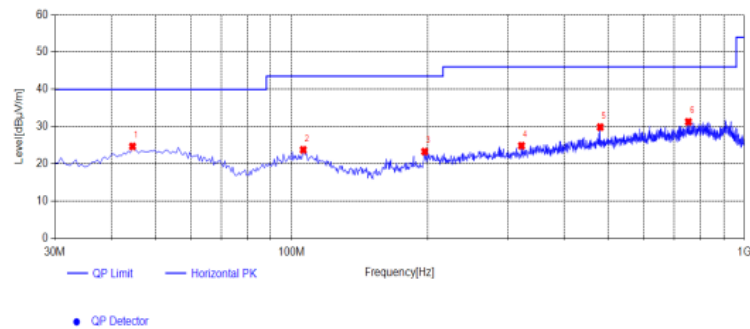
Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

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

Adapter: DCT10W050200US-C0
For 30MHz to 1000MHz

Horizontal

Test Graph



Suspected List

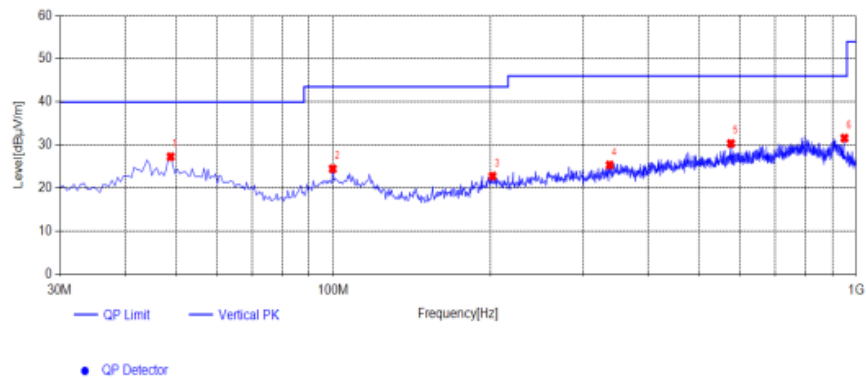
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.55	28.02	-3.36	24.66	40.00	15.34	100	80	PK	Horizontal	PASS
2	106.145	27.50	-3.76	23.74	43.50	19.76	100	20	PK	Horizontal	PASS
3	196.84	27.86	-4.60	23.26	43.50	20.24	100	90	PK	Horizontal	PASS
4	321.97	26.46	-1.62	24.84	46.00	21.16	100	200	PK	Horizontal	PASS
5	480.565	27.67	2.18	29.85	46.00	16.15	100	130	PK	Horizontal	PASS
6	752.165	24.40	6.87	31.27	46.00	14.73	100	150	PK	Horizontal	PASS

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

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.915	30.46	-3.18	27.28	40.00	12.72	100	140	PK	Vertical	PASS
2	99.84	28.94	-4.48	24.46	43.50	19.04	100	90	PK	Vertical	PASS
3	201.69	26.74	-3.96	22.78	43.50	20.72	100	340	PK	Vertical	PASS
4	337.975	26.20	-0.86	25.34	46.00	20.66	100	70	PK	Vertical	PASS
5	576.11	26.60	3.74	30.34	46.00	15.66	100	180	PK	Vertical	PASS
6	949.56	25.20	6.40	31.60	46.00	14.40	100	30	PK	Vertical	PASS

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

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

For Greater than 1GHz

SRD(Worst Case)

Channel 0 / 905 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.
1810.00	49.70	32.44	30.25	7.95	59.84	74.00	-14.16	Peak	Horizontal
1810.00	36.28	32.44	30.25	7.95	46.42	54.00	-7.58	Average	Horizontal
1810.00	53.11	32.44	30.25	7.95	63.25	74.00	-10.75	Peak	Vertical
1810.00	34.28	32.44	30.25	7.95	44.42	54.00	-9.58	Average	Vertical

Channel 5 / 915 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.
1830.00	49.37	32.52	30.31	8.12	59.70	74.00	-14.30	Peak	Horizontal
1830.00	36.59	32.52	30.31	8.12	46.92	54.00	-7.08	Average	Horizontal
1830.00	52.33	32.52	30.31	8.12	62.66	74.00	-11.34	Peak	Vertical
1830.00	35.84	32.52	30.31	8.12	46.17	54.00	-7.83	Average	Vertical

Channel 10 / 925 MHz

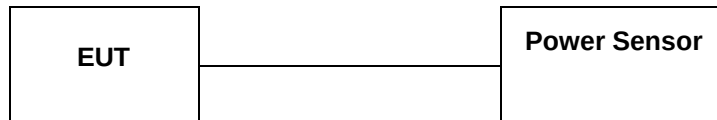
Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
1850.00	50.41	32.68	30.27	7.88	60.70	74.00	-13.30	Peak	Horizontal
1850.00	35.67	32.68	30.27	7.88	45.96	54.00	-8.04	Average	Horizontal
1850.00	49.53	32.68	30.27	7.88	59.82	74.00	-14.18	Peak	Vertical
1850.00	31.68	32.68	30.27	7.88	41.97	54.00	-12.03	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 10GHz (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 10GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 4). Margin = Measured- Limit
- 5).The other emission levels were very low against the limit.
- 6).Measured used 900MHz band filter to avoid power amplifier overload.

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 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.

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

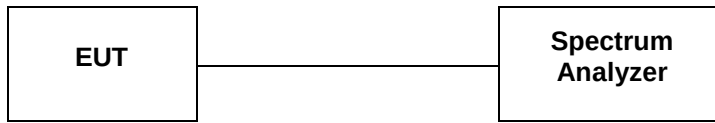
TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.3.

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.

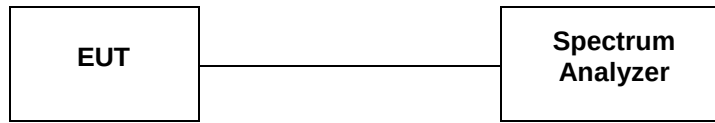
TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.4.

4.5. 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 KDB558074 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 C.1.

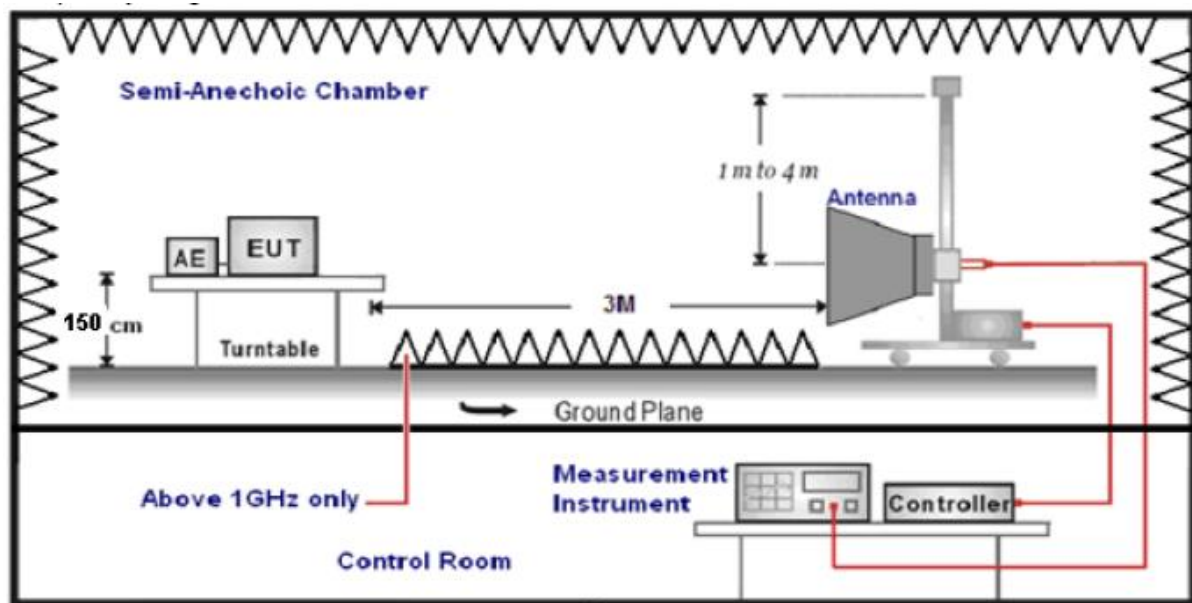
Please refer to Appendix C.2.

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° to 360° 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)

TEST RESULTS

4.6.1 For Radiated Bandedge Measurement

For reporting purpose only.

Please refer to Appendix C.7.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix C.5.

4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix C.6.

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 -0.76 dBi.

Reference to the **Internal photos**.

5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. :GTS20250819018-2-01.

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. :GTS20250819018-2-01.

.....End of Report.....