

TEST REPORT

This laboratory is accredited by National Radio Research Agency Laboratory and National Voluntary Laboratory Accreditation Program.

The tests reported herein have been performed in accordance with its terms of accreditation.

Test Report No. : LR500112304B
Issue Date : APRIL 07, 2023
Applied Standard : FCC Part 15, Subpart B
Trade Name : BT Inc.
Equipment Name : CPR AND FIRST AID TRAINING MODEL
Model Name : BT-CFEA-F
Additional Model name : BT-CFEA-B
Serial Number : Identification
FCC ID : 2AVQ5BT-CFEA-F

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This test report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.



Revision history

Revision	Date of issue	Test report No.	Description
0	07.04.2023	LR500112304B	Initial



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LTA Certification**Applicant / Manufacturer**

Company name : BT Inc.
Address : A-313 Samsung Techno-valley, 140, Tongil-ro, Deogyang-gu , Goyang-si,
Gyeonggi-do, 10594, Republic of Korea
Telephone / Facsimile : +82-2-2038-2903 / +82-303-3130-607

Factory

Company name : BT Inc.
Address : A-313 Samsung Techno-valley, 140, Tongil-ro, Deogyang-gu , Goyang-si,
Gyeonggi-do, 10594, Republic of Korea

Equipment Under Test (EUT)

Equipment Name : CPR AND FIRST AID TRAINING MODEL
Model name : BT-CFEA-F
Additional Model name : BT-CFEA-B
Serial number : Identification
Intended environment : Industrial area
Date of receipt : MARCH 30, 2022
EUT condition : Pre-production, not damaged
Test Mode : Adapter+Communication Mode, Communication Mode
Interface ports : USB-C, DC IN, AC IN
Power rating : AC (100 ~ 240) V, (50 / 60) Hz, 0.4 A (Adapter) /
DC 1.5 V x 6 EA (Battery (Type C))
Test Voltage : AC 120 V, 60 Hz, DC 9 V (Battery (Type C))

Model Description

- NONE

Model Specification

- NONE

*** To be continued next page ***

LTA Certification –cont.-

Test Performed

Test started & completed : APRIL 05, 2023
Location : LTA Co., Ltd.

Test Specification

Purpose of the test : Compliance test to the following standard
Applied standard : FCC Part 15, Subpart B
Classification : Class A
Deviations from Standard Test Method : N/A

Test Results

Measurement	Results*	Test method
Conducted Emissions	Complies	ANSI C 63.4-2014
Radiated Emissions	Complies	ANSI C 63.4-2014

* : The compliance statement is based on nominal value only.

Modification performed by the lab.:

- N/A

Laboratory's Certificate

Report number : LR500112304B
Issue date : APRIL 07, 2023

This test report is issued under the authority of:

The test was supervised by:



Young Kyu Shin, Technical Manager



Jong chae Kim, Test Engineer

The results in this report apply only to the sample(s) tested.

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General information's

Purpose

This document is based on the Electromagnetic Interference (EMI) tests performed on the “BT-CFEA-F”. The measurements were performed according to the measurement procedure described in ANSI C 63.4-2014. The tests were carried out in order to confirm whether the electromagnetic emissions from the EUT(Equipment Under Test), are within the Class A limits defined in FCC Part 15, Subpart B- “Section 15.107- Conducted limits” and “Section 15.109-Radiated emission limits”.

Test Performed

Company name : **LTA Co., Ltd.**
Address : 34, Songju-ro 236Beon-gil, Yangji-myeon, Cheoin-gu Yongin-si, Gyeonggi-do 449-822, Korea
Telephone : +82-31-323-6008
Facsimile : +82-31-323-6010

Measurement uncertainty

Conducted Emissions (0.15 to 30 MHz) : ± 2.81 [dB] (k=2)
Radiated Emissions (30 to 1,000 MHz) : H : ± 4.62 [dB] (k=2) V : ± 4.85 [dB] (k=2)
(1 GHz to 6 GHz) : H : ± 5.65 [dB] (k=2) V : ± 5.68 [dB] (k=2)
(6 GHz to 18 GHz) : H : ± 5.90 [dB] (k=2) V : ± 5.74 [dB] (k=2)

The coverage factor k=2 yields approx. a 95% level of confidence for near-normal distribution typical of most measurement results.

Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2023-09-30	ECT accredited Lab.
	KOREA		-	
RRA	U.S.A	KR0049	2023-04-08	RRA accredited Lab.
	CANADA		2024-08-15	
		C-14948	2023-09-10	
VCCI	JAPAN	T-12416	2023-09-10	VCCI registration
		R-14483	2023-10-15	
		G-10847	2024-12-13	
KOLAS	KOREA	KT551	2025-10-12	KOLAS accredited Lab.

1- Brief Information

1-1 Test Summary

Parameter	Applied Standard	Status (note 1)
I. Emission		
Conducted Emissions	FCC Part 15.107	C
Radiated Emissions	FCC Part 15.109	C
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable * The data in this test report are traceable to the national or international standards.		

Frequency range to be scanned:

0.15 MHz - 30 MHz as conducted measurement

30 MHz to 5th harmonic of the highest frequency or 40 GHz, whichever is lower as radiated measurement.

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz to 30 MHz and 120 kHz in the frequency 30 MHz to 1,000 MHz.

Measured by the Peak function Bandwidth is 1 MHz in the frequency 1 GHz to 40 GHz.

1-2 Test mode of the EUT

The tests have been conducted with the following operational mode(s) of the EUT.

Operating mode

1-3 Modification

- NONE

1-4 List of EUT and ACCESSORY

EUT				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
CPR AND FIRST AID TRAINING MODEL	BT-CFEA-F	N/A	BT Inc.	-
Adapter	UNI318-1215	N/A	I.T.E.POWER SUUPPLY	-
ACCESSORY				
Equipment Name	Model Name	Serial No.	Manufacturer	Remarks
Notebook Computer	X505Z	N/A	ASUSTEK COMPUTER INC.	-
Notebook Computer Adapter	ADP-45ZE B	N/A	Delta Electronics (Jiangsu) Ltd.	-

1-5 Cable List

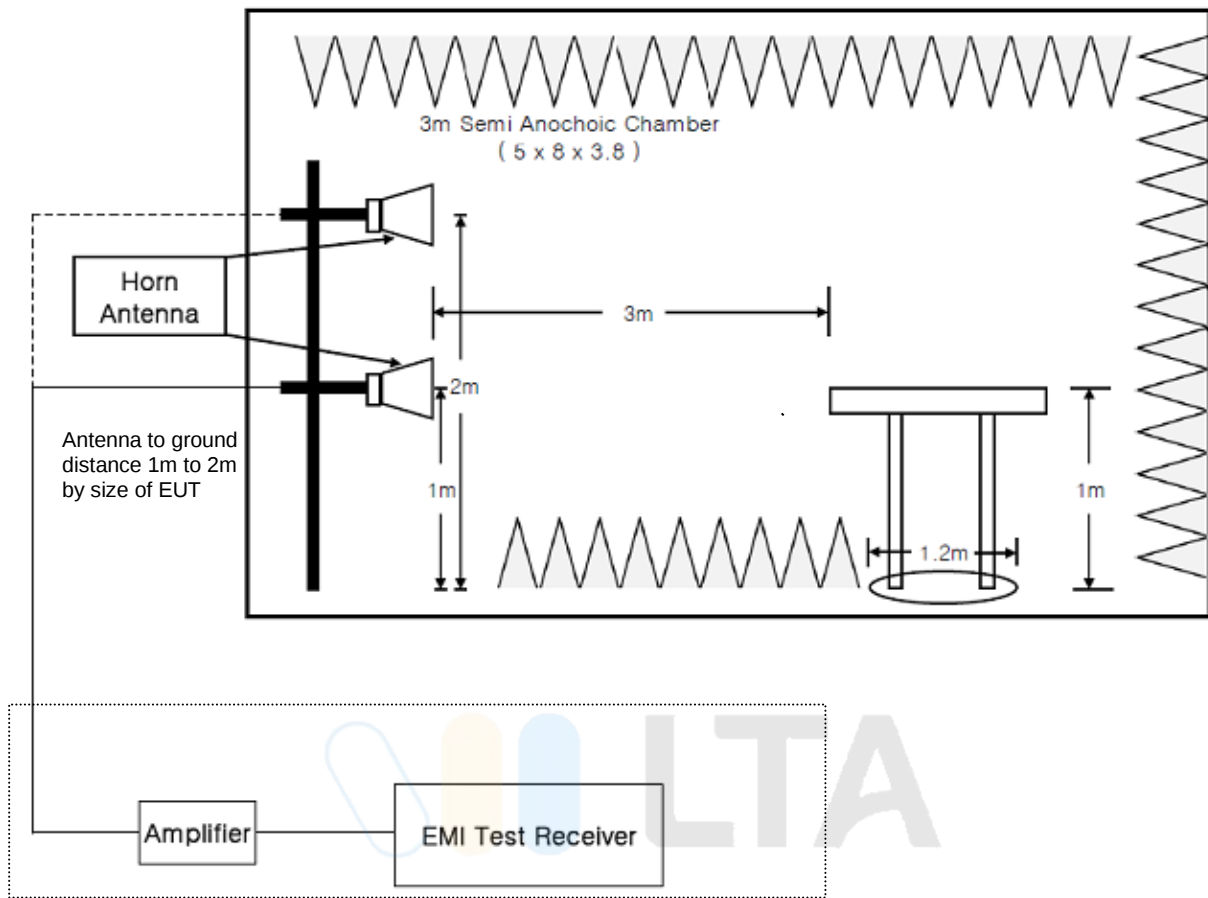
- Adapter+Communication Mode

Cable List						
From		To		Length (m)	Shielding	
Type	I/O Port	Type	I/O Port		Cable	backshell
EUT	DC IN	Adapter [EUT]	DC OUT	1.4	NO	Plastic
	USB-C	Notebook Computer	USB	1.2	NO	Plastic
Adapter	AC IN	2 Pin AC Line	AC OUT	1.2	NO	Plastic

- Communication Mode

Cable List						
From		To		Length (m)	Shielding	
Type	I/O Port	Type	I/O Port		Cable	backshell
EUT	USB-C	Notebook Computer	USB	1.2	NO	Plastic

2-3 Radiated Emissions – Above 1 GHz



3- Test Procedure

3-1 Conducted Emissions

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance ($50\ \Omega$ / $50\ \mu\text{H}$) as defined in ANSI C 63.4, shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector.
(Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- Refer to "Brief Information"(page 7-8) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
 - searching the maximum frequency point of the disturbance wave in each frequency range.
 - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
 - calculating the measurement result with the following formula or equation.
(Result = Reading + Cor.F.(LISN Factor + Cable Loss + Pulse Limiter)
(ex) = $13.23\ \text{dB}\mu\text{V} + (9.63\ \text{dB} + 0.01\ \text{dB} + 9.86\ \text{dB})$
 = $32.73\ \text{dB}\mu\text{V}$

3-2 Radiated Emissions – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4 and the distance between the EUT and the antenna is adjusted 3 m or 10 m.
 - The turntable can be rotated 360 degrees.
 - The antenna can be adjusted between 1 m and 4 m in height above the ground.
 - The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
 - Measurements are carried out using an EMI receiver with quasi-peak detectors (120 kHz bandwidth).
 - Refer to the list of test equipment used for the test.
 - The TRILOG antenna are used as wideband antenna.
 - The TRILOG antenna is used in the frequency range of 30 MHz to 1 000 MHz.
 - A variable attenuator is used for verifying amplifier's linearity.
 - Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
 - Refer to "Brief Information"(page 7-8) about details of the EUT and configuration of the cables.
 - Measurement is carried out by a LTA operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:
- (Result = Reading + Cor.F (antenna factor + cable loss - PreAmp Gain)
- (ex) = 50.6 dBμV/m + (11.08 dB(1/m) + 1.31 dB - 27.32 dB)
- = 35.67 dBμV/m

3-3 Radiated Emissions – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- The HORN antenna are used as wideband antenna.
- The HORN antenna is used in the frequency range of 1 GHz to 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 7-8) about details of the EUT and configuration of the cables.
- Measurement is carried out by a LTA operator as manual operation.
 - searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m
 - reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4.
 - measuring to vertical and horizontal polarization.
 - calculating the measurement result with the following formula or equation:
(Result = Reading + Cor.F (antenna factor + cable loss + Measure distance – PreAmp Gain)
(ex) = 35.9 dBμV/m + (23.92 dB(1/m) + 7.01 dB + 1.50 dB - 28.33 dB)
= 40.0 dBμV/m

4- List of Equipment Used For the Tests

Conducted Emissions

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESR	Rohde & Schwarz	101499	2024.03.13	1 year
☒	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100710	2024.03.13	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	100378	2023.08.29	1 year
☐	LISN	ESH3-Z6	Rohde & Schwarz	101468	2023.08.29	1 year
☒	LISN(main)	ENV216	Rohde & Schwarz	100408	2023.08.29	1 year
☒	LISN(sub)	LT32C/10	AFJ	32031518210	2023.08.29	1 year
☒	TEST PROGRAM	e3_ce 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Below 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2023.08.29	1 year
☒	Amplifier	8447D	HP	1937A03453	2023.11.29	1 year
☒	TRILOG Antenna	VULB 9168	SCHWARZBECK	775	2025.03.29	2 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

Radiated Emissions – Above 1 GHz

	Item	Model Name	Manufacturer	Serial No.	Next Cal.	Interval
☒	EMI TEST Receiver	ESCI7	Rohde & Schwarz	100772	2023.08.29	1 year
☐	EMI TEST Receiver	ESU	Rohde & Schwarz	100092	2023.08.29	1 year
☒	Amplifier	8449B	Agilent	3008A02126	2024.03.14	1 year
☐	Amplifier	PAM-840A	COM-POWER	461314	2024.03.15	1 year
☐	HORN ANTENNA	3116B	ETS	133350	2024.03.22	1 year
☐	HORN ANTENNA	3116B	ETS	81109	2024.04.25	1 year
☒	HORN ANTENNA	3115	ETS	114105	2023.05.12	1 year
☒	TEST PROGRAM	e3 20181212a (V9)	AUDIX	-	-	-

5- EMISSION

5-1 Conducted Emissions

(LINE)



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EUT /Model No. : BT-CFEA-F

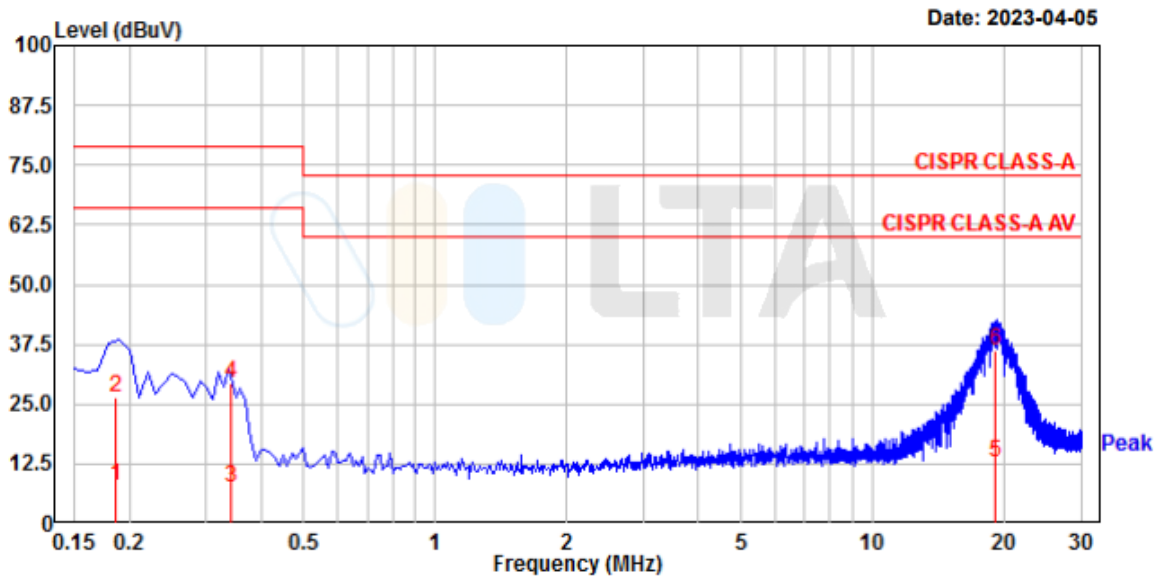
Phase : LIVE

Test Mode : Communication

Test Power : AC 120 V / 60 Hz

Temp./ Humi. : 20 'C / 51 % R.H.

Test Engineer : KIM J C



No.	Freq MHz	RD QP dBuV	RD AV dBuV	C.F dB	Result QP dBuV	Result AV dBuV	Limit QP dBuV	Limit AV dBuV	Margin QP dB	Margin AV dB	Phase
2.	0.187	6.88	-11.50	19.46	26.34	7.96	79.00	66.00	52.66	58.04	Line
4.	0.341	10.10	-11.79	19.47	29.57	7.68	79.00	66.00	49.43	58.32	Line
6.	19.049	16.20	-7.17	20.02	36.22	12.85	73.00	60.00	36.78	47.15	Line

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

(NEUTRAL)



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EUT /Model No. : BT-CFEA-F

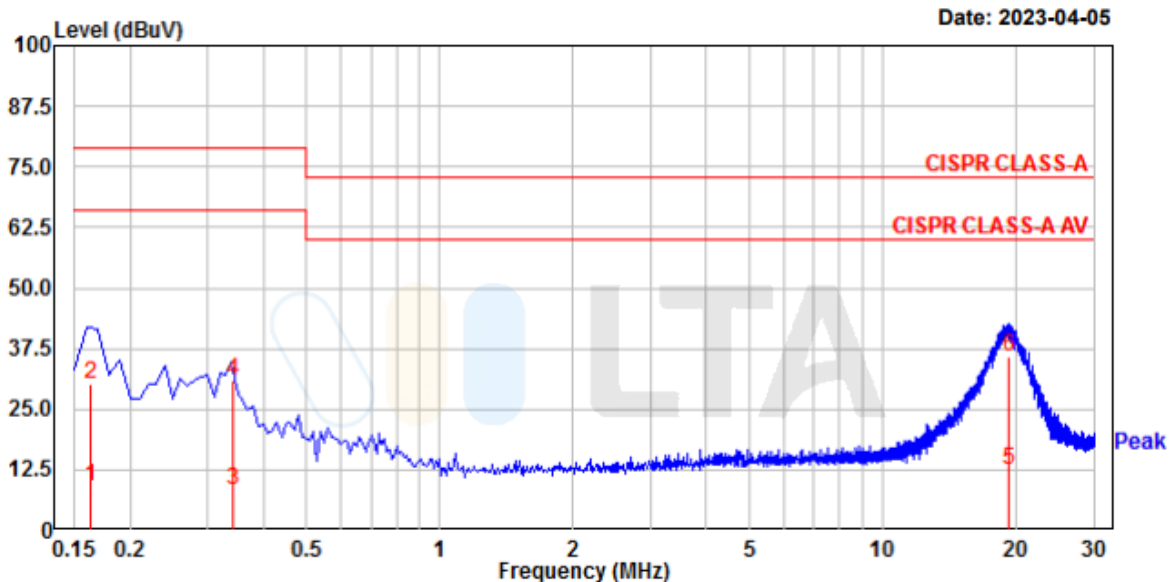
Phase : NEUTRAL

Test Mode : Commnication

Test Power : AC 120 V / 60 Hz

Temp./ Humi. : 20 'C / 51 % R.H.

Test Engineer : KIM J C



No.	Freq MHz	RD QP dBμV	RD AV dBμV	C.F dB	Result QP dBμV	Result AV dBμV	Limit QP dBμV	Limit AV dBμV	Margin QP dB	Margin AV dB	Phase
2.	0.164	10.69	-10.38	19.41	30.10	9.03	79.00	66.00	48.90	56.97	neutral
4.	0.343	11.36	-11.27	19.44	30.80	8.17	79.00	66.00	48.20	57.83	neutral
6.	19.184	15.87	-7.38	20.02	35.89	12.64	73.00	60.00	37.11	47.36	neutral

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss + Pulse Limiter

5-2 Radiated Emissions

- Adapter+Communication

(Below 1 GHz) / V



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EUT/Model No.: BT-CFEB-F

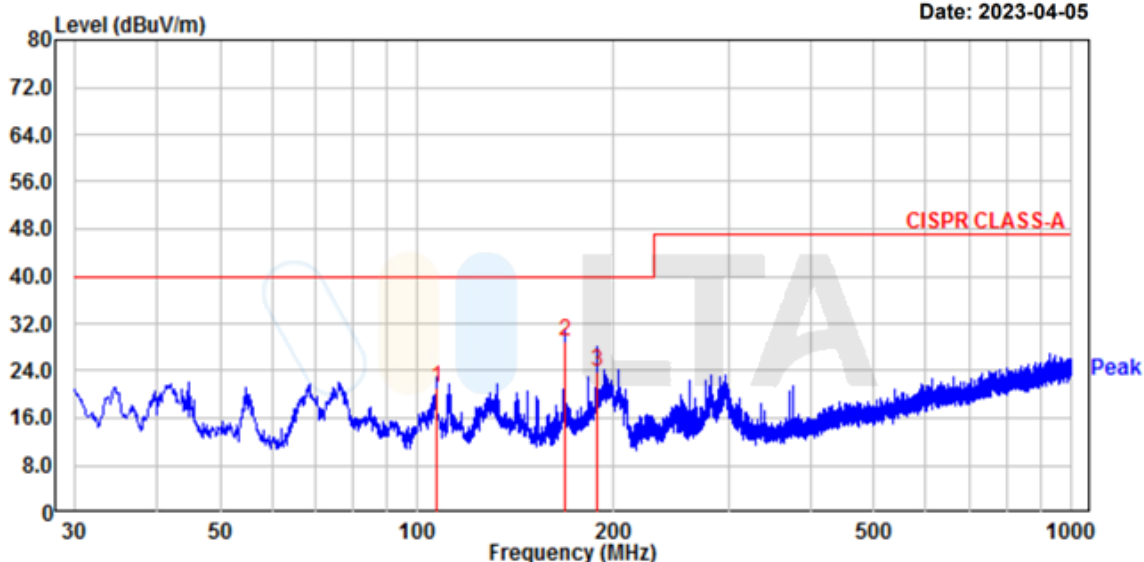
Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Adapter + Communication

Tested by: KIM J C

Power : AC 120 V / 60 Hz

Date: 2023-04-05



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	106.99	35.71	-14.57	21.14	40.00	18.86	100	249	vertical
2.	167.98	40.41	-11.31	29.10	40.00	10.90	100	267	vertical
3.	188.23	37.13	-13.28	23.85	40.00	16.15	120	249	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Below 1 GHz) / H



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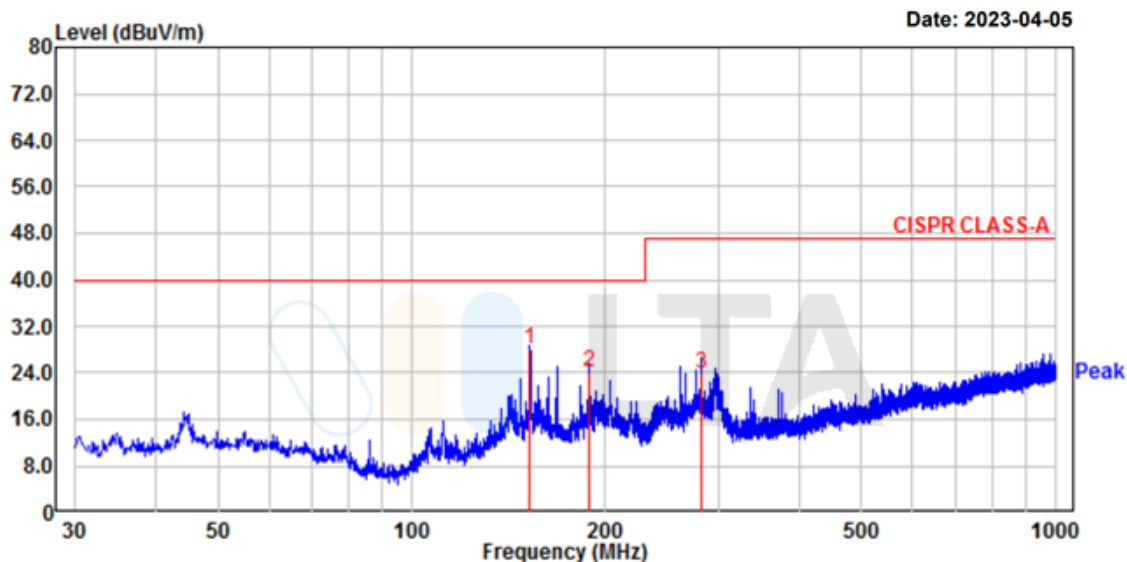
EUT/Model No.: BT-CFEB-F

Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Adapter + Communication

Tested by: KIM J C

Power : AC 120 V / 60 Hz



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	152.71	39.12	-10.91	28.21	40.00	11.79	400	125	horizontal
2.	188.23	37.54	-13.28	24.26	40.00	15.74	360	267	horizontal
3.	281.23	34.09	-10.32	23.77	47.00	23.23	300	270	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

- Communication

(Below 1 GHz) / V



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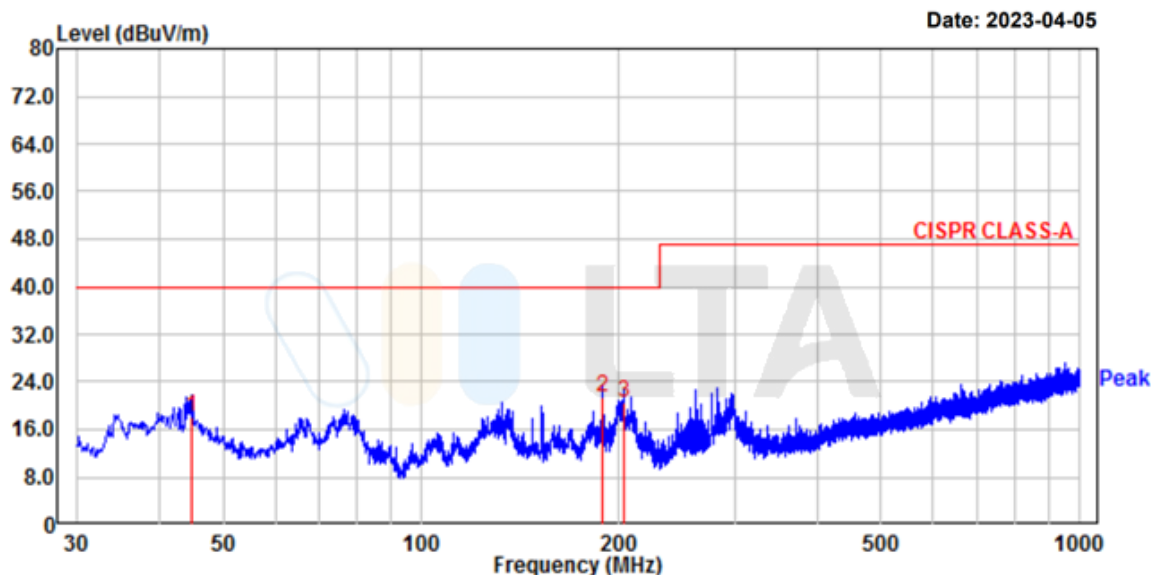
EUT/Model No.: BT-CFEB-F

Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Communication

Tested by: KIM J C

Power : Battery



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	44.91	30.01	-11.77	18.24	40.00	21.76	200	35	vertical
2.	188.23	34.78	-13.28	21.50	40.00	18.50	100	279	vertical
3.	203.51	34.53	-13.99	20.54	40.00	19.46	100	0	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

(Below 1 GHz) / H



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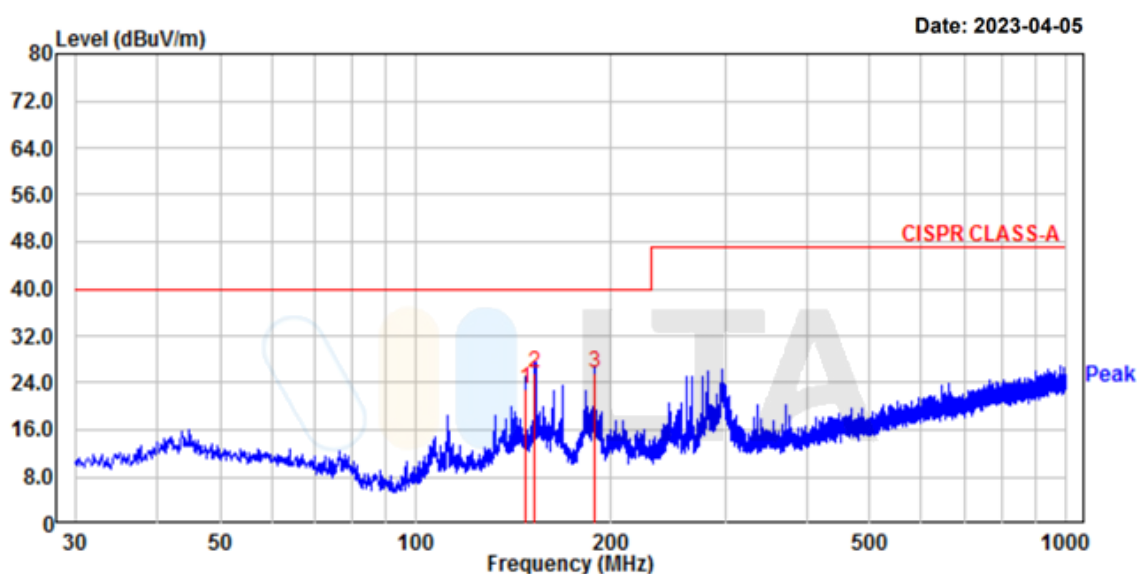
EUT/Model No.: BT-CFEB-F

Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Communication

Tested by: KIM J C

Power : Battery



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	147.73	34.00	-10.91	23.09	40.00	16.91	400	125	horizontal
2.	152.71	36.57	-10.91	25.66	40.00	14.34	380	272	horizontal
3.	188.35	39.07	-13.30	25.77	40.00	14.23	300	214	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

- Adapter+Communication

(Above 1 GHz) / V



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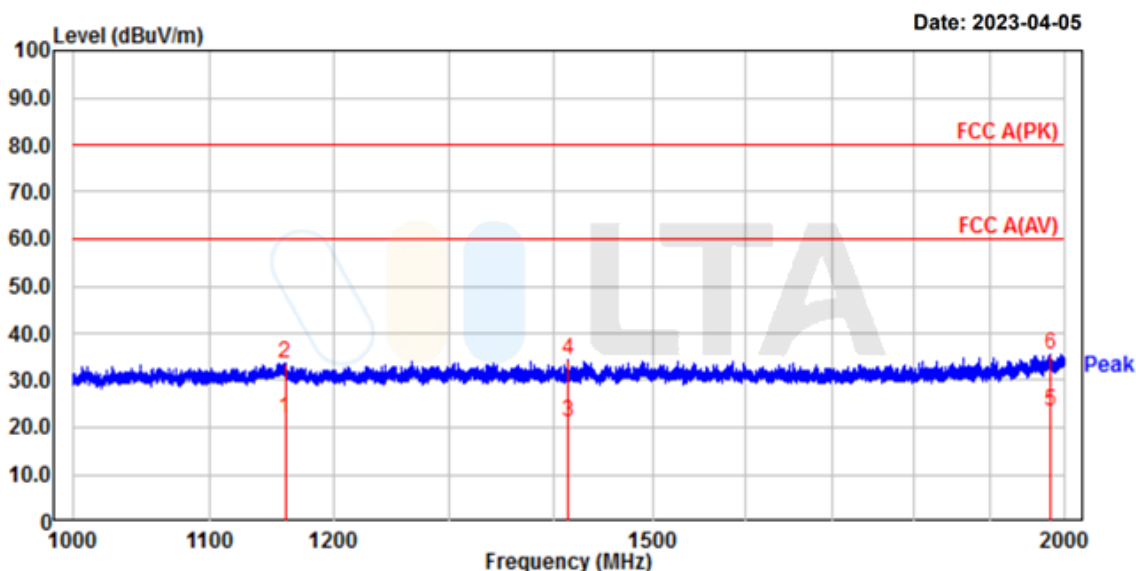
Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Adapter + Communication

Tested by: KIM J C

Power : AC 120 V / 60 Hz

Measure distance : 3.3 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV	dB	PK	AV	PK	AV	PK	AV	cm	deg	
2.	1159.63	39.54	27.93	-5.98	33.56	21.95	80.00	60.00	46.44	38.05	100	291	vertical
4.	1412.88	39.02	25.88	-4.67	34.35	21.21	80.00	60.00	45.65	38.79	120	193	vertical
6.	1981.50	36.26	24.32	-0.86	35.40	23.46	80.00	60.00	44.60	36.54	110	360	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

(Above 1 GHz) / H



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EUT/Model No.: BT-CFEB-F

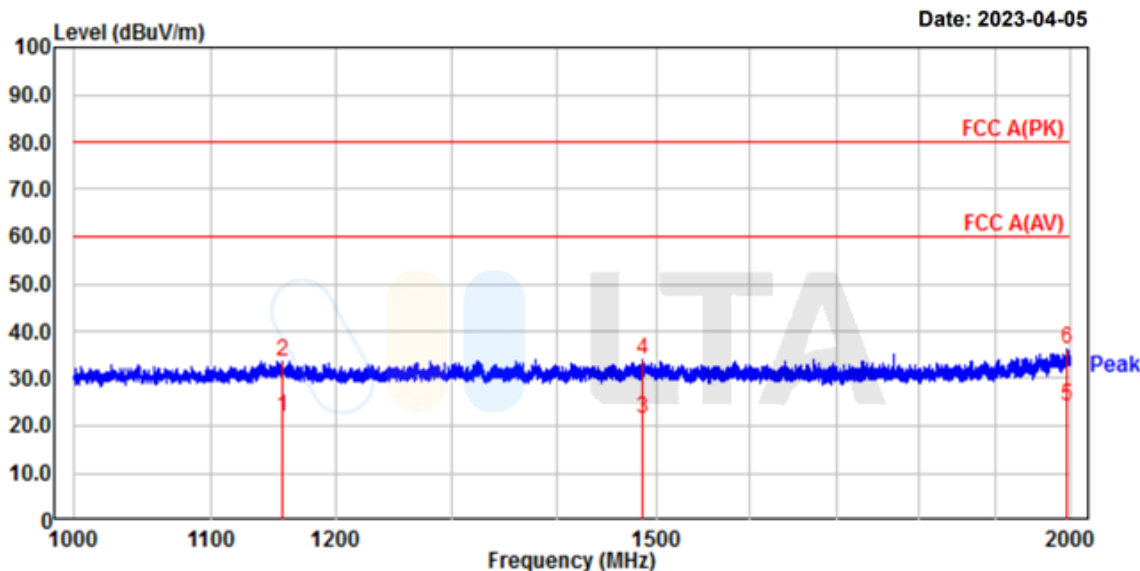
Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Adapter + Communication

Tested by: KIM J C

Power : AC 120 V / 60 Hz

Measure distance : 3.3 m



No.	Freq MHz	RD PK dBμV	RD AV dBμV	C.F dB	Result PK dBμV	Result AV dBμV	Limit PK dBμV	Limit AV dBμV	Margin PK dB	Margin AV dB	Height cm	Angle deg	Polarity
2.	1156.38	39.65	28.06	-5.99	33.66	22.07	80.00	60.00	46.34	37.93	100	145	horizontal
4.	1485.75	38.11	25.71	-4.18	33.93	21.53	80.00	60.00	46.07	38.47	105	42	horizontal
6.	1995.63	36.74	24.76	-0.53	36.21	24.23	80.00	60.00	43.79	35.77	100	267	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

- Communication

(Above 1 GHz) / V



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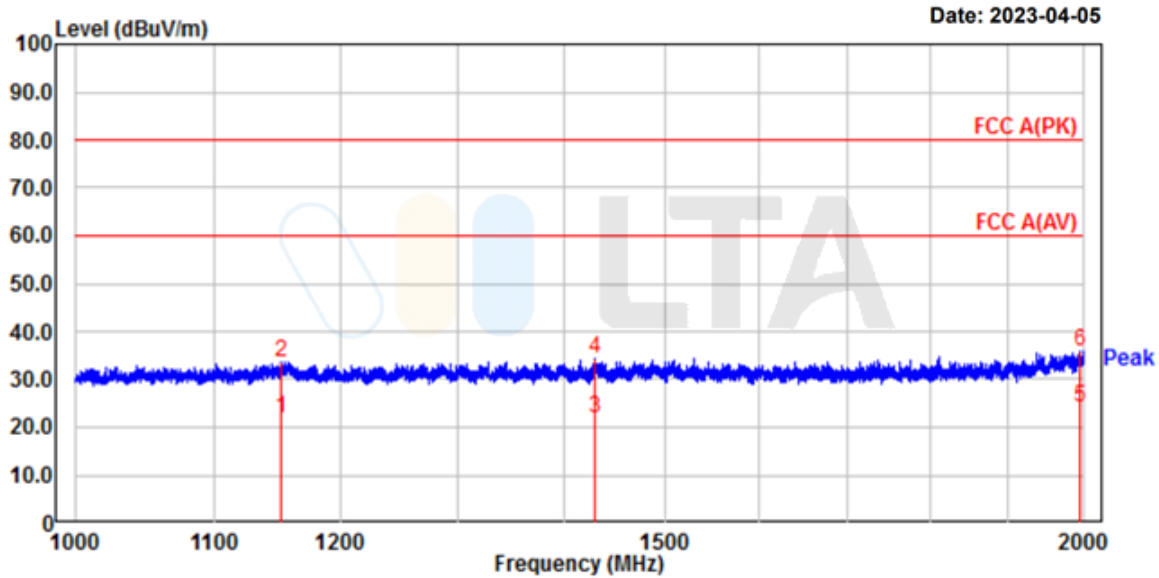
Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Communication

Tested by: KIM J C

Power : Battery

Measure distance : 3.3 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV	dB	PK	AV	PK	AV	PK	AV	cm	deg	
		dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB			
2.	1152.00	39.58	28.09	-6.02	33.56	22.07	80.00	60.00	46.44	37.93	100	26	vertical
4.	1429.38	38.92	26.36	-4.54	34.38	21.82	80.00	60.00	45.62	38.18	100	44	vertical
6.	1995.75	36.29	24.77	-0.52	35.77	24.25	80.00	60.00	44.23	35.75	105	165	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

(Above 1 GHz) / H



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EUT/Model No.: BT-CFEB-F

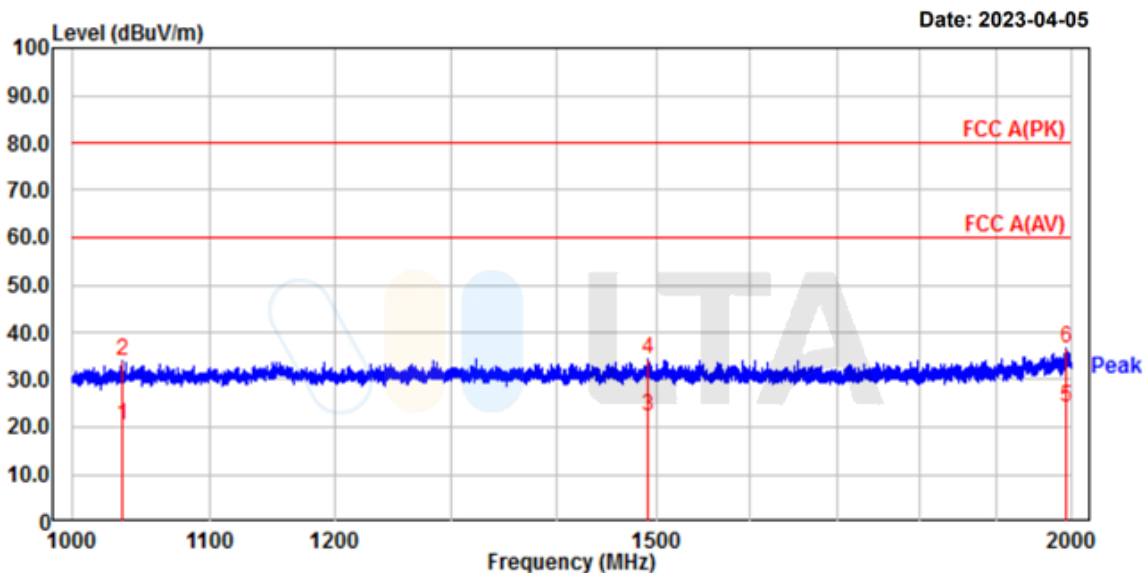
Temp/Humi: 19 'C / 42 % R.H.

Test Mode : Communication

Tested by: KIM J C

Power : Battery

Measure distance : 3.3 m



No.	Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Polarity
	MHz	PK	AV	dB	PK	AV	PK	AV	PK	AV	cm	deg	
2.	1035.00	40.74	27.27	-6.76	33.98	20.51	80.00	60.00	46.02	39.49	100	322	horizontal
4.	1490.00	38.40	26.27	-4.15	34.25	22.12	80.00	60.00	45.75	37.88	115	283	horizontal
6.	1993.13	37.06	24.56	-0.58	36.48	23.98	80.00	60.00	43.52	36.02	100	170	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss + Measure distance - Preamp gain

Conclusions

Product models "**BT-CFEA-F**" meets all of the Class A requirements of the FCC Part 15, Subpart B. Limits of radio disturbance characteristics of ITE).

(Refer to Test Specification and Test Results in the "LTA certification", page 4 and 5)

- The highest internal source of an EUT is 168 MHz, the measurement shall be made up to 2 GHz.

