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Report No.: SZEM170500533108

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RF Exposure Evaluation Report

Application No.:SZEM1705005331RGApplicant:Kyocera CorporationManufacturer:Kyocera Corporation

Product Name: Tablet

Model No.(EUT): FA85

Trade Mark: Kyocera

FCC ID: JOYFA85

Standards: 47 CFR Part 1.1310(2017)

47 CFR Part 2.1091(2017)

Date of Receipt: 2017-12-28

Date of Test: 2017-12-29 to 2018-01-07

Date of Issue: 2018-01-23

Test Result:	PASS*

^{*} In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang

Derell yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

	Revision Record				
Version	Chapter	Date Modifier		Remark	
01		2018-01-23		Original	

Authorized for issue by:		
	Mike Hu /Project Engineer	2018-01-23
	Jim Huang /Reviewer	2018-01-23



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4 General Description of EUT

Product Name:	Tablet
Model No.:	FA85
Bluetooth version:	Bluetooth V4.2 Dual-mode
Operation Frequency:	2402 to2480 MHz
Type of Modulation:	BLE: GFSK BT: GFSK, π/4DQPSK, 8DPSK
Antenna type:	PIFA Antenna
Antenna gain	2.62dBi



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4.1 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.2 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.3 Deviation from Standards

None

4.4 Abnormalities from Standard Conditions

None

4.5 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to 47 CFR Part 1.1310

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
	(A) Limits for Occupational/Controlled Exposure								
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/f	4.89/f	*900/f ²	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
(B) Limits for General Population/Uncontrolled Exposure									
0.3-1.34	614	1.63	*100	30					
1.34-30	824/f	2.19/f	*180/f ²	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

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BLE:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm	(mW/cm²)	
	Power (dBm)	(mW)	(mW/cm²)		
2440MHz	-1.44	0.178	0.00026	1	PASS

BT:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm	(mW/cm ²)	
	Power (dBm)	(mW)	(mW/cm²)		
2480MHz	7.50	5.623	0.002	1	PASS

Note: Refer to report No. SZEM170500533106& SZEM170500533107 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.