RF EXPOSURE REPORT

Applicant	HUAWEI TECHNOLOGIES CO., LTD.
Address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian Longgang District, Shenzhen 518129 P.R. China

Manufacturer or Supplier	HUAWEI TECHNOLOGIES CO., LTD.
Address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian Longgang District, Shenzhen 518129 P.R. China
Product Name	Huawei STB
Additional Product Name	Smart STB
Brand Name	HUAWEI
Model	EC6108V9
Additional Model & Model Difference	EC6108V9A, EC6108V9B, EC6108V9C, EC6108V9D, EC6108V9E, EC6108V9F; See items 3.1
Date of tests	Aug. 14, 2015 ~ Sep. 13, 2015

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D03**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Blue Zheng Project Engineer / EMC Department	Approved by Chris Chen Assistant Manager / EMC Department
	 Date: Sep. 14, 2015

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS150813N009	Original release	Sep. 14, 2015

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1. CERTIFICATION

FCC ID:	QISEC6108V9
PRODUCT:	Huawei STB
ADDITIONAL NAME:	Smart STB
BRAND NAME:	HUAWEI
MODEL NO.:	EC6108V9
ADDITIONAL NO.:	EC6108V9A, EC6108V9B, EC6108V9C, EC6108V9D, EC6108V9E, EC6108V9F
TEST SAMPLE:	Engineering Sample
APPLICANT:	HUAWEI TECHNOLOGIES CO., LTD.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D03
	IEEE C95.1

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	3	6.01	WIRE Antenna
Chain 1	3		WIRE Antenna

NOTE: Total gain = 3dBi + 10log(2) = 6.01dBi

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462, 2402-2480, 5180-5240, 5260-5320, 5500-5700, 5745-5825	238.30	6.01	20	0.189	1.0

Conclusion

Therefore device complies with FCC's RF radiation exposure limits for general population in mobile exposure category (distance < 20cm)

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