RF TEST REPORT



Report No.: 15071087-FCC-R4
Supersede Report No.: N/A

Applicant	Hunan ZTE ICT Technologies Co.,Ltd.			
Product Name	MID			
Model No.	E10Q			
Serial No.	E10G,E10H	H,E10K,E10P,E10T,E10S,E1	0Z	
Test Standard	FCC Part 1	5.247: 2014, ANSI C63.10: 2	013	
Test Date	November	November 24 to December 01, 2015		
Issue Date	December 17, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie Zhang David Huang				
Winnie Zhang Test Engineer		David Huang Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15071087-FCC-R4	NONE	Original	December 01, 2015
15071087-FCC-R4	V1	Update FCC ID	December 17, 2015

2. Customer information

Applicant Name	Hunan ZTE ICT Technologies Co.,Ltd.	
Applicant Add	5F, ZTE ICT R&D Building, No.48 Cailun Rd. , High-Tech Development Zone,	
	Hengyang, China	
Manufacturer	Hunan ZTE ICT Technologies Co.,Ltd.	
Manufacturer Add	5F, ZTE ICT R&D Building, No.48 Cailun Rd. , High-Tech Development Zone,	
	Hengyang, China	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT: MID

Main Model: E10Q

Serial Model: E10G,E10H,E10K,E10P,E10T,E10S,E10Z

Date EUT received: November 23, 2015

Test Date(s): November 24 to December 01, 2015

Equipment Category : DTS

GSM850: -0.7 dBi PCS1900: -0.8 dBi

UMTS-FDD Band V: -0.7 dBi

Antenna Gain: UMTS-FDD Band II: -0.8 dBi

Bluetooth/BLE: 1 dBi

WIFI: 1 dBi GPS: 0 dBi

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

UMTS-FDD: QPSK, 16QAM

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RF Operating Frequency (ies): RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS RX:1575.42 MHz



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Max. Output Power: -4.047dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH

Number of Channels: WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M):7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port, HDMI Port

Trade Name : ZTE

Adapter:

Model: SC/10WA050200US

Input: AC 100-240V; 50/60Hz;0.5A

Input Power:
Output: DC 5.0V,2.0A

Battery:

Spec:3.7V,7000mAh

GPRS/EGPRS Multi-slot class: 8/10/12

FCC ID: 2ACYS-E10Q



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density Comp	
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions Complia	
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	

Measurement Uncertainty

Emissions			
Test Item Description		Uncertainty	
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB	
-	-	-	



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the 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 6 dBi.

Antenna Connector Construction

The EUT has 3 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 1.0dBi for Bluetooth/BLE, the gain is 1.0dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS/ UMTS, the gain is -0.7dBi for GSM850, -0.8dBi for PCS1900,-0.7dBi for UMTS-FDD Band V, -0.8dBi for UMTS-FDD Band II,

A permanently attached PIFA antenna for GPS, the gain is 0dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	23°C
Relative Humidity	52%
Atmospheric Pressure	1020mbar
Test date :	November 24, 2015
Tested By :	Winnie Zhang

Spec	Item	tem Requirement A			
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;			
RSS Gen(4.6.1)	b)	b) 99% BW: For FCC reference only; required by IC.			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. 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.				
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



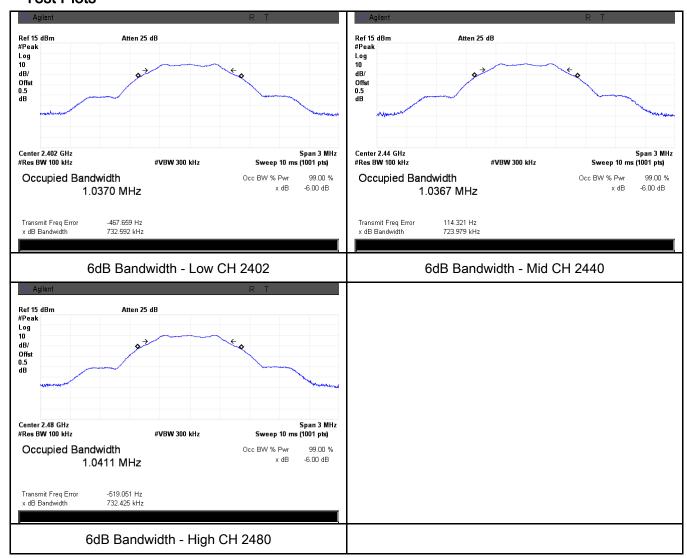
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6dB Bandwidth measurement result

Test Data

СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	732.592	1.0370
Mid	2440	723.979	1.0367
High	2480	732.425	1.0411

Test Plots





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6.3 Maximum Output Power

Temperature	23°C
Relative Humidity	52%
Atmospheric Pressure	1020mbar
Test date :	November 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Applicable		
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt		
§15.247(b)	b)) FHSS in 5725-5850MHz: ≤ 1 Watt		
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.		
(2),RSS210	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt		
(A8.4)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt		
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: ≤ 1 Watt	\	
Test Setup	Spectrum Analyzer EUT			
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method Maximum output power measurement procedure a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.			
Remark				



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Result	Pass	☐ Fail		

Test Data Yes

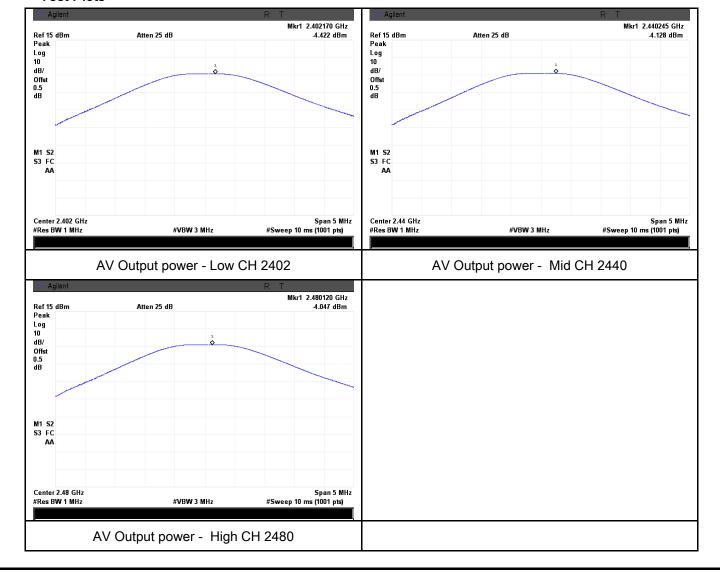
Test Plot Yes (See below)

Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-4.422	30	Pass
Output	Mid	2440	-4.128	30	Pass
power	High	2480	-4.047	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	23°C
Relative Humidity	52%
Atmospheric Pressure	1020mbar
Test date :	November 24, 2015
Tested By:	Winnie Zhang

Spec	Item	Requirement	Applicable	
§15.247(e)	a)	The state of the state of</td		
Test Setup		Spectrum Analyzer EUT		
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. - d) Set the VBW ≥ 3 × RBW. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.			
Remark				
Result	Pas	ss Fail		

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



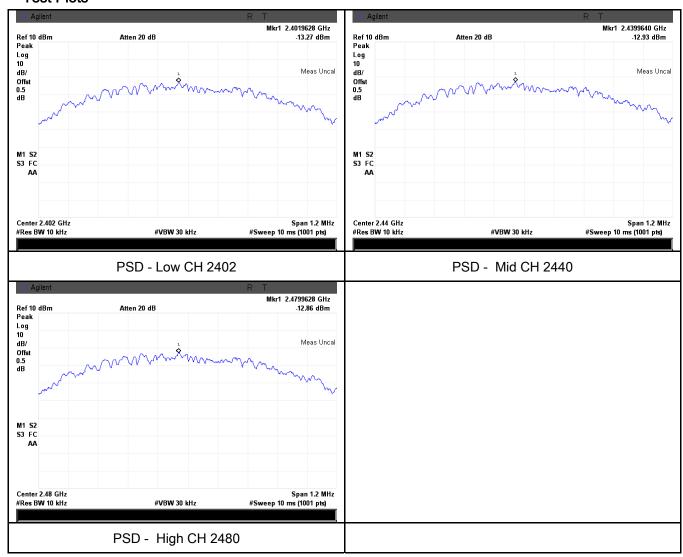
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Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
	Low	2402	-13.27	8	Pass
PSD	Mid	2440	-12.93	8	Pass
	High	2480	-12.86	8	Pass

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	23°C
Relative Humidity	52%
Atmospheric Pressure	1020mbar
Test date :	November 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable	
§15.247(d)	a)	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.	₹	
Test Setup	Ant. Tower Support Units Ground Plane Test Receiver			
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.			



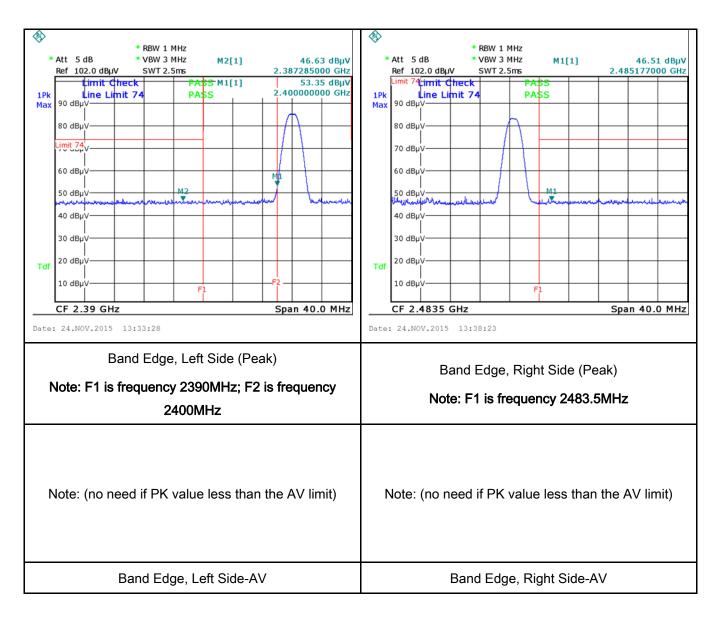
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	3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a				
	convenient frequency span including 100kHz bandwidth from band edge, check				
	the emission of EUT, if pass then set Spectrum Analyzer as below:				
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum				
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.				
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video				
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above				
	1GHz.				
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the				
	video bandwidth is 10Hz with Peak detection for Average Measurement as below				
	at frequency above 1GHz.				
	4. Measure the highest amplitude appearing on spectral display and set it as a				
	reference level. Plot the graph with marking the highest point and edge frequency.				
	5. Repeat above procedures until all measured frequencies were complete.				
Remark					
Result	Pass Fail				
	·				
Test Data	Yes N/A				
Test Plot	∕es (See below) □N/A				



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Test Plots Band Edge measurement result





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6.6 AC Power Line Conducted Emissions

Temperature	23°C		
Relative Humidity	52%		
Atmospheric Pressure	1020mbar		
Test date :	November 24, 2015		
Tested By :	Winnie Zhang		

Requirement(s):

Spec	Item	Requirement	Applicable			
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges. Frequency ranges Limit (dBµV) (MHz) QP Average 0.15 ~ 0.5 66 – 56 56 – 46			▼	
		0.5 ~ 5	56	46		
Test Setup	Vertical Ground Reference Plane EUT Horizontal Ground Reference Plane Note: 1. Support units were connected to second LISN.					
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 					



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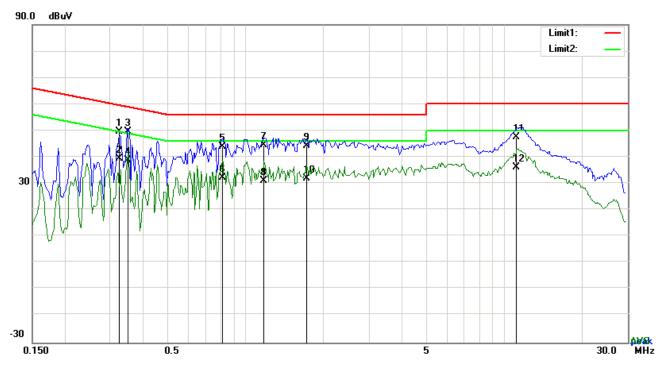
	coaxial cable.				
	4. All other supporting equipment were powered separately from another main supply.				
	5. The EUT was switched on and allowed to warm up to its normal operating condition.				
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)				
	over the required frequency range using an EMI test receiver.				
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the				
	selected frequencies and the necessary measurements made with a receiver bandwidth				
	setting of 10 kHz.				
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).				
Remark					
Result	Pass Fail				

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Mode: Transmitting Mode



Test Data

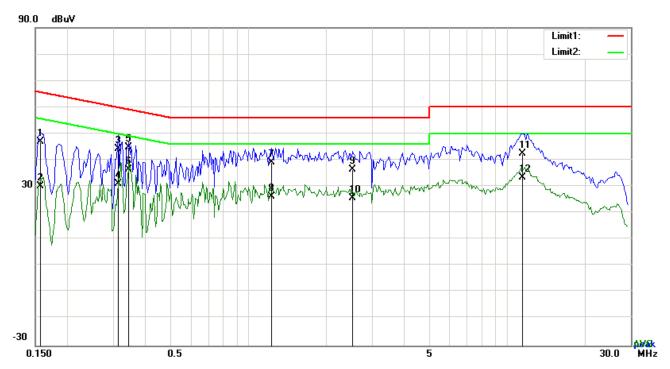
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.3255	39.61	QP	10.03	49.64	59.57	-9.93
2	L1	0.3255	29.45	AVG	10.03	39.48	49.57	-10.09
3	L1	0.3528	39.57	QP	10.03	49.60	58.90	-9.30
4	L1	0.3528	28.92	AVG	10.03	38.95	48.90	-9.95
5	L1	0.8169	34.00	QP	10.03	44.03	56.00	-11.97
6	L1	0.8169	22.34	AVG	10.03	32.37	46.00	-13.63
7	L1	1.1796	34.53	QP	10.03	44.56	56.00	-11.44
8	L1	1.1796	21.15	AVG	10.03	31.18	46.00	-14.82
9	L1	1.7256	34.11	QP	10.04	44.15	56.00	-11.85
10	L1	1.7256	22.01	AVG	10.04	32.05	46.00	-13.95
11	L1	11.1939	37.27	QP	10.17	47.44	60.00	-12.56
12	L1	11.1939	25.92	AVG	10.17	36.09	50.00	-13.91



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Test Mode:	Transmitting Mode
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Test Data

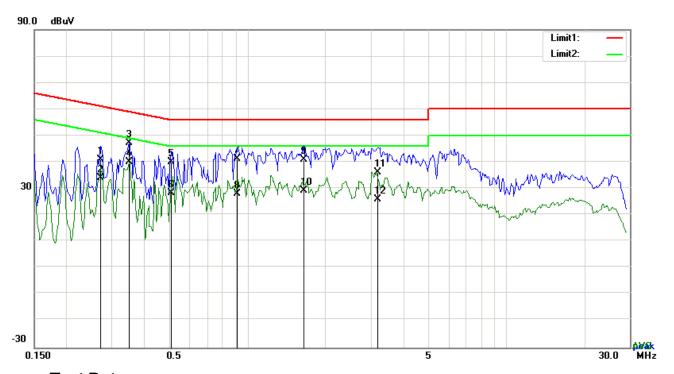
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.1578	36.83	QP	10.02	46.85	65.58	-18.73
2	Ν	0.1578	20.11	AVG	10.02	30.13	55.58	-25.45
3	N	0.3138	34.17	QP	10.02	44.19	59.87	-15.68
4	N	0.3138	20.89	AVG	10.02	30.91	49.87	-18.96
5	N	0.3450	34.88	QP	10.02	44.90	59.08	-14.18
6	N	0.3450	26.37	AVG	10.02	36.39	49.08	-12.69
7	Ν	1.2264	29.06	QP	10.03	39.09	56.00	-16.91
8	N	1.2264	16.32	AVG	10.03	26.35	46.00	-19.65
9	N	2.5251	26.54	QP	10.05	36.59	56.00	-19.41
10	N	2.5251	15.62	AVG	10.05	25.67	46.00	-20.33
11	N	11.4435	32.29	QP	10.16	42.45	60.00	-17.55
12	N	11.4435	23.18	AVG	10.16	33.34	50.00	-16.66



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Test Mode:	Transmitting Mode
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Test Data

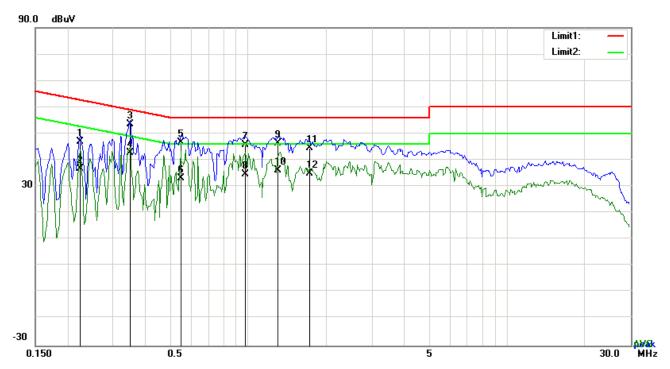
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.2709	31.05	QP	10.03	41.08	61.09	-20.01
2	L1	0.2709	24.10	AVG	10.03	34.13	51.09	-16.96
3	L1	0.3489	37.19	QP	10.03	47.22	58.99	-11.77
4	L1	0.3489	29.98	AVG	10.03	40.01	48.99	-8.98
5	L1	0.5088	30.00	QP	10.03	40.03	56.00	-15.97
6	L1	0.5088	18.24	AVG	10.03	28.27	46.00	-17.73
7	L1	0.9183	31.15	QP	10.03	41.18	56.00	-14.82
8	L1	0.9183	18.04	AVG	10.03	28.07	46.00	-17.93
9	L1	1.6476	30.94	QP	10.04	40.98	56.00	-15.02
10	L1	1.6476	19.32	AVG	10.04	29.36	46.00	-16.64
11	L1	3.1755	26.21	QP	10.06	36.27	56.00	-19.73
12	L1	3.1755	16.01	AVG	10.06	26.07	46.00	-19.93



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Test Mode:	Transmitting	Mode
	_	



Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.2241	36.84	QP	10.02	46.86	62.67	-15.81
2	N	0.2241	26.70	AVG	10.02	36.72	52.67	-15.95
3	Ν	0.3489	43.52	QP	10.02	53.54	58.99	-5.45
4	Ν	0.3489	32.76	AVG	10.02	42.78	48.99	-6.21
5	N	0.5478	36.67	QP	10.02	46.69	56.00	-9.31
6	N	0.5478	23.12	AVG	10.02	33.14	46.00	-12.86
7	N	0.9729	35.66	QP	10.03	45.69	56.00	-10.31
8	N	0.9729	24.52	AVG	10.03	34.55	46.00	-11.45
9	N	1.3005	36.21	QP	10.03	46.24	56.00	-9.76
10	N	1.3005	26.13	AVG	10.03	36.16	46.00	-9.84
11	N	1.7295	34.39	QP	10.04	44.43	56.00	-11.57
12	N	1.7295	24.78	AVG	10.04	34.82	46.00	-11.18



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6.7 Radiated Spurious Emissions

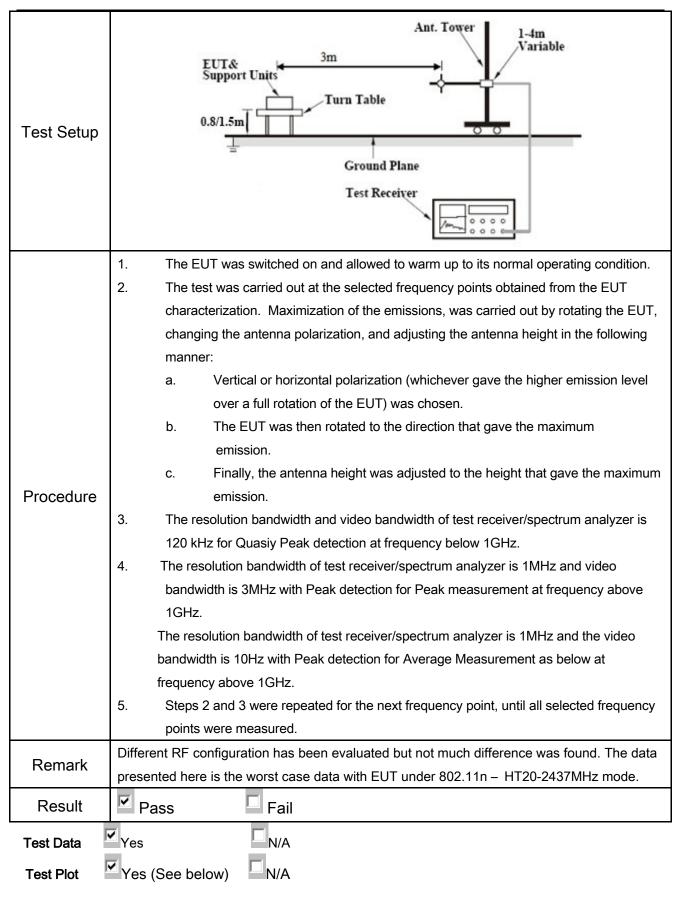
Temperature	23°C
Relative Humidity	52%
Atmospheric Pressure	1020mbar
Test date :	November 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15.	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 - 88 88 - 216 216 960	o-frequency devices shall not ecified in the following table and as shall not exceed the level of	\
247(d), RSS210 (A8.5)	b)	Above 960 For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional solution of the intentional radiator is oppower that is produced by the intention of	>	



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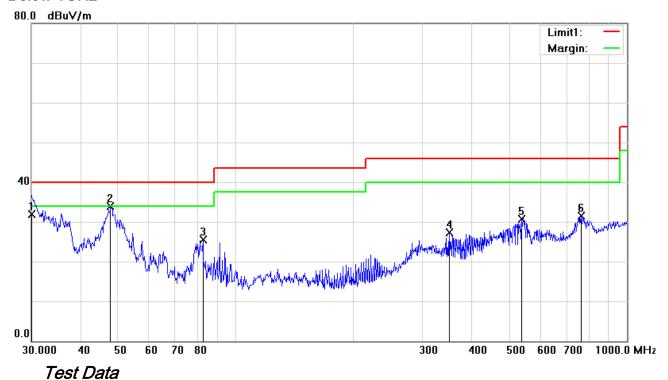




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Test Mode: Transmitting Mode

Below 1GHz



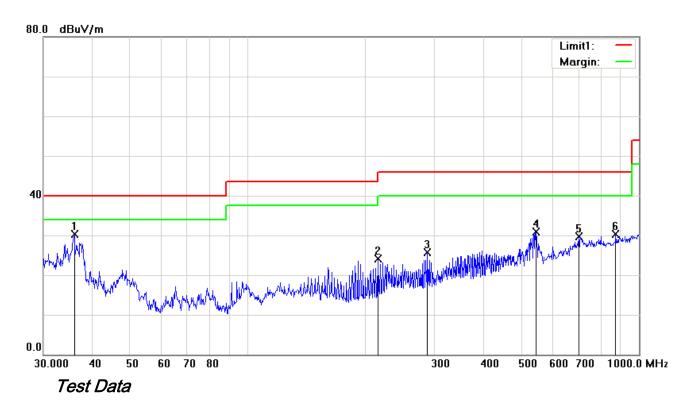
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	V	30.0000	32.16	QP	-0.26	31.90	40.00	-8.10	100	196
2	V	47.8260	46.14	peak	-12.20	33.94	40.00	-6.06	100	87
3	V	82.3589	39.12	peak	-13.65	25.47	40.00	-14.53	100	188
4	V	351.7079	32.70	peak	-5.42	27.28	46.00	-18.72	100	248
5	٧	537.5891	31.73	peak	-1.02	30.71	46.00	-15.29	100	184
6	V	763.3757	28.93	peak	2.62	31.55	46.00	-14.45	100	359



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Below 1GHz



Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Dete ctor	Correcte d (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	Н	36.0007	34.94	peak	-4.67	30.27	40.00	-9.73	100	14
2	Н	215.2678	32.97	peak	-8.87	24.10	43.50	-19.40	100	149
3	Н	287.9904	33.16	peak	-7.45	25.71	46.00	-20.29	100	96
4	Н	545.1826	31.86	peak	-0.91	30.95	46.00	-15.05	100	254
5	Н	701.7610	28.21	peak	1.41	29.62	46.00	-16.38	100	122
6	Н	872.1832	26.20	peak	4.19	30.39	46.00	-15.61	100	325



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Test Mode:	Transmitting	Mode
	9	

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	38.93	AV	٧	33.83	6.86	31.72	47.90	54	-6.10
4804	38.46	AV	Η	33.83	6.86	31.72	47.43	54	-6.57
4804	46.61	PK	٧	33.83	6.86	31.72	55.58	74	-18.42
4804	46.35	PK	Н	33.83	6.86	31.72	55.32	74	-18.68

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	38.84	AV	V	33.86	6.82	31.82	47.7	54	-6.30
4880	38.51	AV	Н	33.86	6.82	31.82	47.37	54	-6.63
4880	46.57	PK	V	33.86	6.82	31.82	55.43	74	-18.57
4880	46.32	PK	Н	33.86	6.82	31.82	55.18	74	-18.82

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.79	AV	V	33.9	6.76	31.92	47.53	54	-6.47
4960	38.43	AV	Н	33.9	6.76	31.92	47.17	54	-6.83
4960	46.51	PK	٧	33.9	6.76	31.92	55.25	74	-18.75
4960	46.28	PK	Н	33.9	6.76	31.92	55.02	74	-18.98



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Annex A. TEST INSTRUMENT

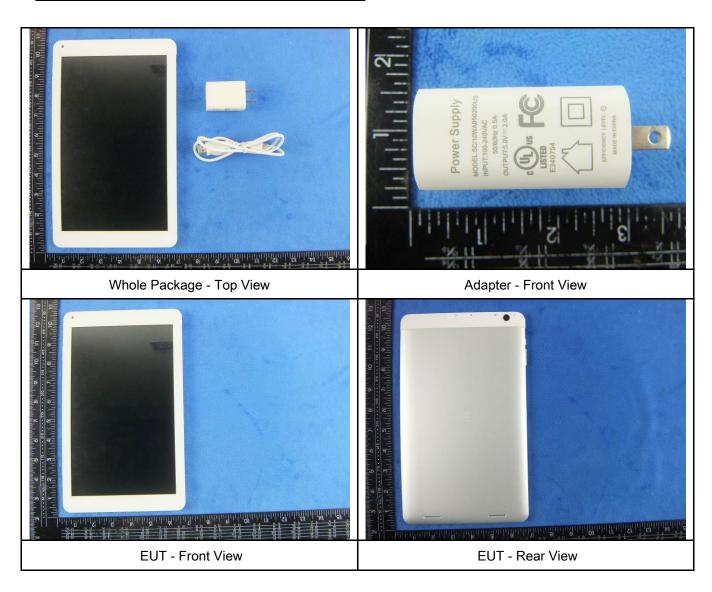
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<u><</u>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<u> </u>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	~
LISN	ISN T800	34373	09/25/2015	09/24/2016	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	~
Power Splitter	1#	1#	09/01/2015	08/31/2016	~
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<u><</u>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<u><</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	V
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	V



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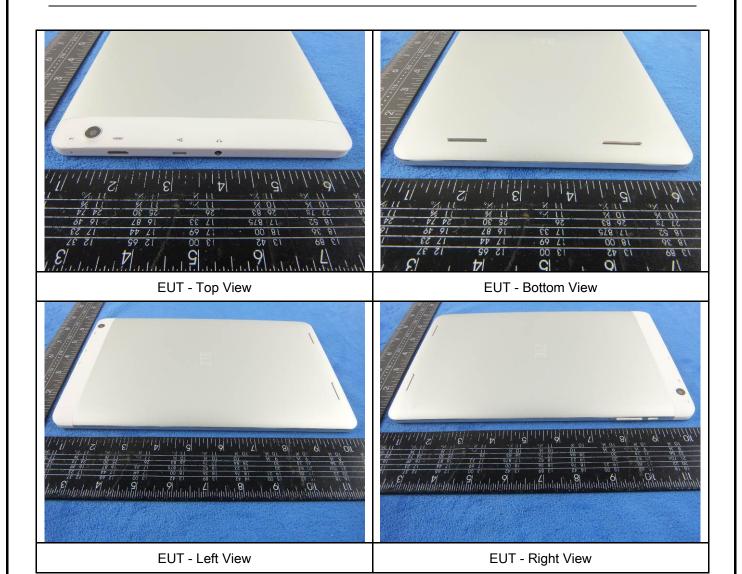
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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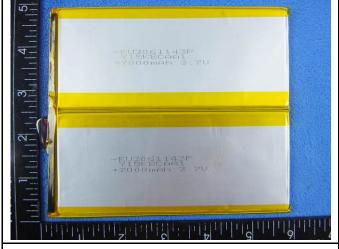
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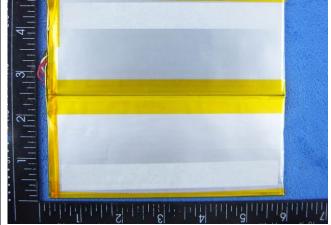
Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1

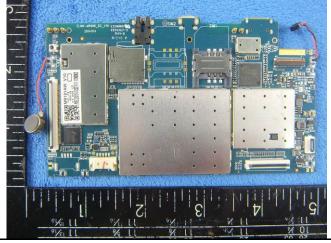
Cover Off - Top View 2



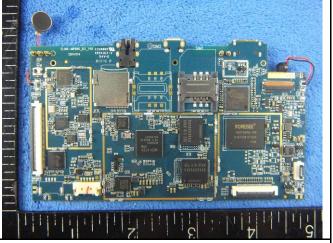


Battery - Front View

Battery - Rear View



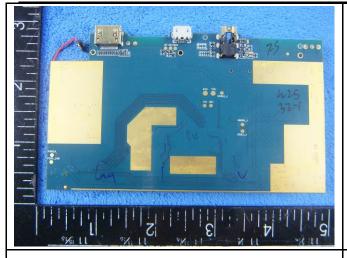
Mainbard with Shielding - Front View



Mainbard without Shielding - Front View

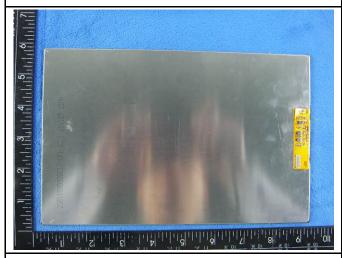


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Mainbard - Rear View

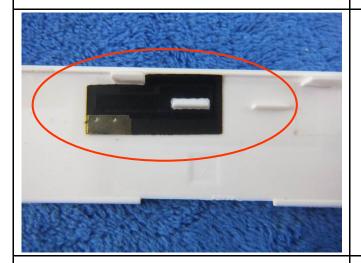
LCD - Front View





LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE - Antenna View



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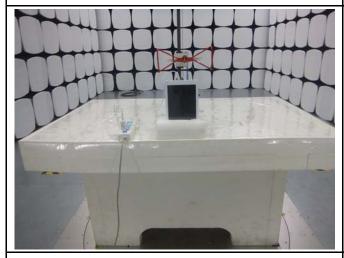
Annex B.iii. Photograph: Test Setup Photo



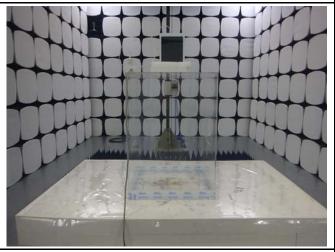
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

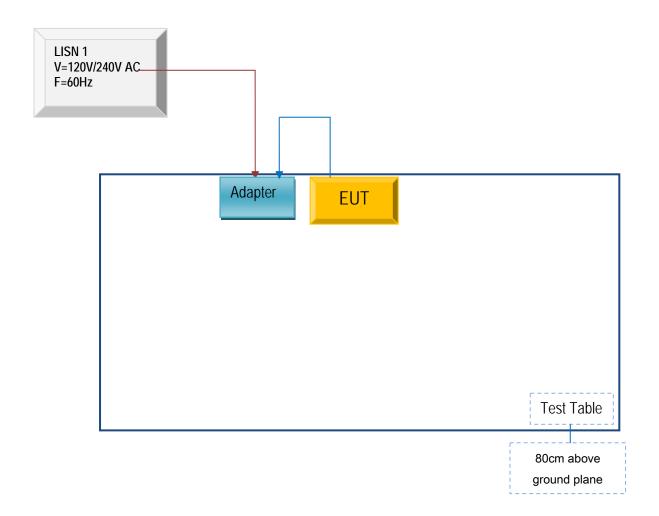


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

Hunan ZTE ICT Technologies Co.,Ltd.

To: SIEMIC ,775 Montague Expressway, Milpitas, CA 95035,USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 8 model numbers on the FCC certificates and reports, as following:

Model No.: E10Q, E10G,E10H,E10K,E10P,E10T,E10S,E10Z

We declare that, all the model PCB ,Antenna and Appearanceshape , accessories are the same . The difference of these is listed as below:

Main Model No	Serial Model No	Difference
E10Q	E10G.E10H,E10R,E10P,E10T,E10S, E10Z	Different model name

Thank you!



Printed name/title: Xu Hong

Address: 5F, ZTE ICT R&D Building, No.48 Cailun Rd., High-Tech Development

Zone, Hengyang, China