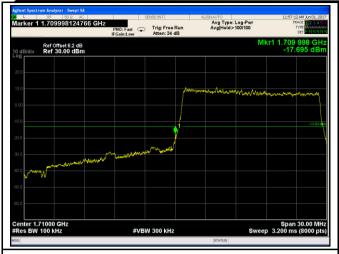


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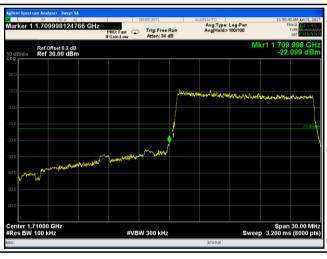
LTE band IV - Low Channel QPSK-15

LTE band IV - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log

(147.5/100)=4.5+1.7=6.2 dB

(148/100)=4.5+1.7=6.2 dB





LTE band IV - Low Channel 16QAM-15

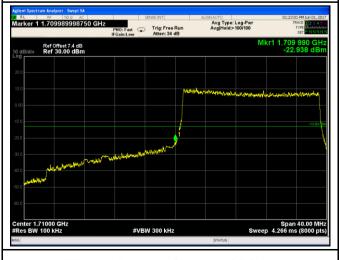
LTE band IV - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log

Note: Offset=Cable loss (4.5) + 10log

(148.1/100)=4.5+1.7=6.2 dB

(148.4/100)=4.5+1.7=6.2 dB





LTE band IV - Low Channel QPSK-20

LTE band IV - High Channel QPSK-20



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(193.6/100)=4.5+2.9=7.4 dB



Note: Offset=Cable loss (4.5) + 10log (194.1/100)=4.5+2.9=7.4 dB



LTE band IV - Low Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log

(194.6/100)=4.5+2.9=7.4dB

LTE band IV - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log

(195.3/100)=4.5+2.9=7.4 dB



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6.8 Band Edge 27.53(m)

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1002mbar
Test date :	June 01, 2017
Tested By:	Vera Zhang

Requirement(s):

Spec	Requirement	Applicable
	According to FCC 27.53(m)(4) specified that power of any	
	emmission ouutside of the channel edge must be attenuated below	
	the transmitting power(P) by a factor shall be not less than 43+10log	
	(P)dB at the channel edge, the limit of emission equal to -13dBm.	
§27.53(m)	And 55+10log (P)dB at 5.5MHz from the channel edges, the limit of	~
	emission equal to -25dBm. In the 1MHz bands immediately outside	
	and adjacent to the frenqency block a resolution bandwidth of at	
	least one percent of the emission bandwidth of the fundamental	
	emission of the transmitter may be employed.	
Test Setup	Base Station Spectrum Analyzer	
	2434 5444454	an via nower
Test	 The EUT was connected to Spectrum Analyzer and Base Static divider. 	on via powei
		annal for the
Procedure	- The 99% and 26 dB occupied bandwidth (BW) of the middle ch	iannei ioi the
	highest RF powers.	
Remark		
Result	Pass Fail	

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



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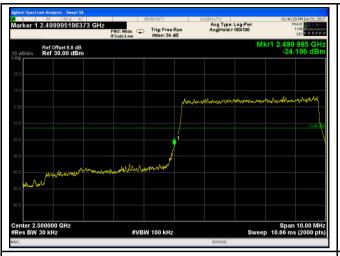
LTE band VII (Part 27) result

ETE band vii (i ait 27) icsuit					
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5 00775	20775	0500	QPSK	-24.196	-13
5	20775	2500	16QAM	-24.202	-13
	24425		QPSK	-23.664	-13
5	21425	2570	16QAM	-23.160	-13
40	20000	2500	QPSK	-24.916	-13
10	20800	2500	16QAM	-22.922	-13
40		2570	QPSK	-25.002	-13
10	21400		16QAM	-23.157	-13
4.5	15 20825	2500	QPSK	-25.383	-13
15			16QAM	-25.892	-13
45	15 21400	2570	QPSK	-26.469	-13
15		2 1400	2570	16QAM	-25.757
20	20050	20850 2500	QPSK	-26.838	-13
20	20850		16QAM	-26.866	-13
20	21350	2570	QPSK	-29.469	-13
20			16QAM	-29.701	-13



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LTE band VII (Part 27)



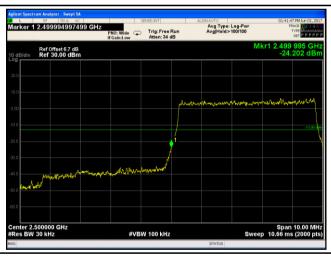


LTE band VII - Low Channel QPSK-5

LTE band VII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (50.39/30)=4.5+2.3=6.8 dB

Note: Offset=Cable loss (4.5) + 10log (50.48/30)=4.5+2.3=6.8 dB





LTE band VII - Low Channel 16QAM-5

LTE band VII - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (50.34/30)=4.5+2.2=6.7 dB

Note: Offset=Cable loss (4.5) + 10log (50.40/30)=4.5+2.3=6.8 dB



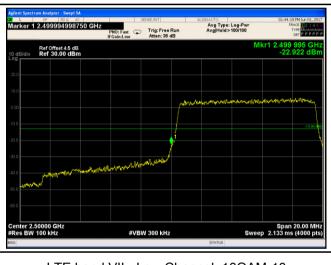
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LTE band VII - Low Channel QPSK-10

LTE band VII - High Channel QPSK-10



LTE band VII - Low Channel 16QAM-10 LTE band V



LTE band VII - High Channel 16QAM-10



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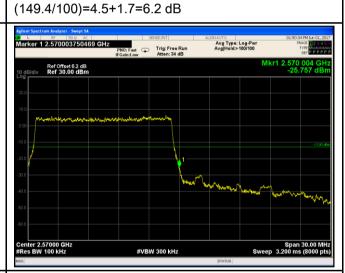
LTE band VII - Low Channel QPSK-15

LTE band VII - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log

(148.2/100)=4.5+1.7=6.2 dB





LTE band VII - Low Channel 16QAM-15

LTE band VII - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log

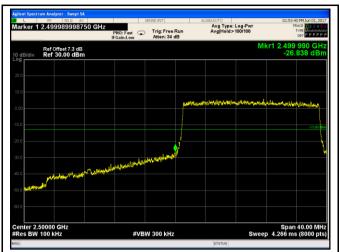
Note: Offset=Cable loss (4.5) + 10log

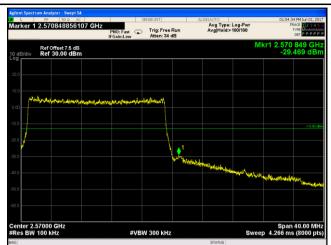
(147.7/100)=4.5+1.7=6.2dB

(149.6/100)=4.5+1.7=6.2 dB



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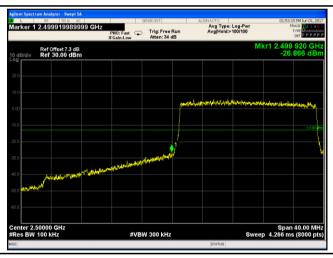
LTE band VII - Low Channel QPSK-20

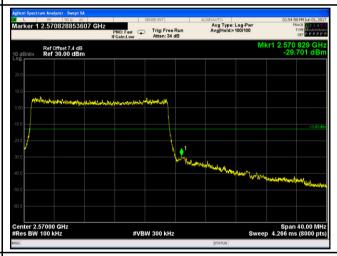
LTE band VII - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log

(192.1/100)=4.5+2.8=7.3 dB

(197.4/100)=4.5+3.0=7.5dB





LTE band VII - Low Channel 16QAM-20

LTE band VII - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log

Note: Offset=Cable loss (4.5) + 10log

(191.5/100)=4.5+2.8=7.3 dB

(194.5/100)=4.5+2.9=7.4 dB



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6.9 Frequency Stability

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1002mbar
Test date :	June 01, 2017
Tested By :	Vera Zhang

Requirement(s):

Requirement(s)); T					ı
Spec	Item	Requirement				Applicable
		According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services	Services mus Table below	et be maintained w	rithin the	
		Frequency	Base,	Mobile ≤ 3	Mobile ≤ 3	
		Range	fixed	watts	watts	
§2.1055,		(MHz)	(ppm)	(ppm)	(ppm)	
		25 to 50	20.0	20.0	50.0	
§22.355 &		□□to 450	5.0	5.0	50.0	
§24.235	(a)	450 to 512	2.5	5.0	5□0	~
§ 27.5(h);		821 to 896	1.5	2.5	2.5	
§ 27.54		928 to 929.	5.0	N/A	N/A	
		929 to 960.	1.5	N/A	N/A	
		2110 to 2220	10.0	N/A	N/A	
		According to §24.2	35, the frequ	ency stability sha	Il be sufficient to	
		ensure that the fun	damental en	nissions stay withi	n the authorized	
		frequency block.				
		According to §27.5	4, The frequ	ency stability shal	I be sufficient to	
		ensure that the fun	damental en	nissions stay withi	n the authorized	
		bands of operation	•			



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Test setup	Base Station EUT Thermal Chamber
Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.
Remark	Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.
Result	Pass Fail

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



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LTE band II (Part 24E) result

Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		-8	0.0043	2.5
0	3.85	-9	0.0048	2.5
10		-7	0.0037	2.5
20		-14	0.0074	2.5
30		-8	0.0043	2.5
40		-5	0.0027	2.5
50		-12	0.0064	2.5
55		-15	0.0080	2.5
25	4.4	-9	0.0048	2.5
25	3.6	-11	0.0059	2.5

LTE band IV (Part 27) result

	17 (1 411 27) 10041				
	Middle Channel, f _o = 1732.5 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-11	0.0063	2.5	
0		-14	0.0081	2.5	
10	3.85	-12	0.0069	2.5	
20		11	0.0063	2.5	
30		-8	0.0046	2.5	
40		-8	0.0046	2.5	
50		-9	0.0052	2.5	
55		-13	0.0075	2.5	
25	4.4	-9	0.0052	2.5	
25	3.6	-10	0.0058	2.5	



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LTE band VII (Part 27) result

Middle Channel, f₀ = 2535 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		-10	0.0039	2.5
0	3.85	-12	0.0047	2.5
10		-14	0.0055	2.5
20		-9	0.0036	2.5
30		-11	0.0043	2.5
40		-10	0.0039	2.5
50		-5	0.0020	2.5
55		-15	0.0059	2.5
25	4.4	-4	0.0016	2.5
25	3.6	-6	0.0024	2.5



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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/15/2016	09/14/2017	Z
Power Splitter	1#	1#	08/31/2016	08/30/2017	V
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	Z
Temperature/Humidity Chamber	UHL-270	001	10/08/2016	10/07/2017	>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<u><</u>
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/16/2016	09/15/2017	V
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	Z
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	Y
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/20/2016	09/19/2017	<u><</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/23/2016	09/22/2017	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/16/2016	09/15/2017	V
Power Amplifier	SMC150D	R1553-0313	03/08/2017	03/07/2018	~
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	~
Tunable Notch Filter	3NF-800/1000- S	AA4	08/31/2016	08/30/2017	V



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Tunable Notch Filter	3NF- 1000/2000-S	AM 4	08/31/2016	08/30/2017	V
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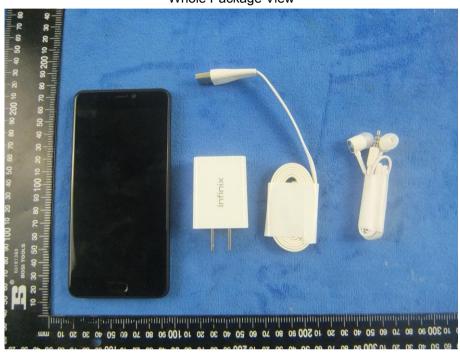


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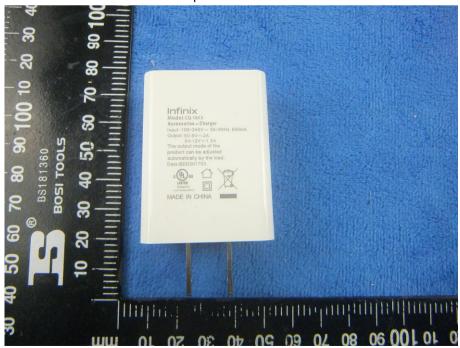
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View





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EUT - Front View



EUT - Rear View



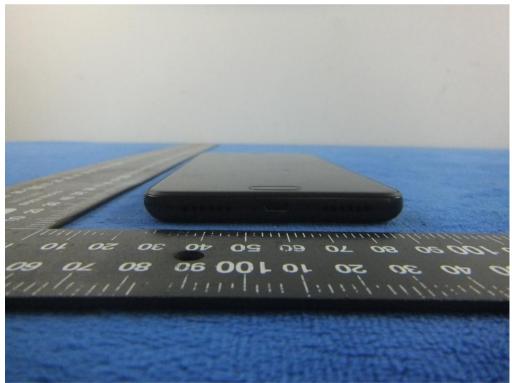


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EUT - Top View



EUT - Bottom View





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EUT - Left View



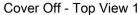
EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





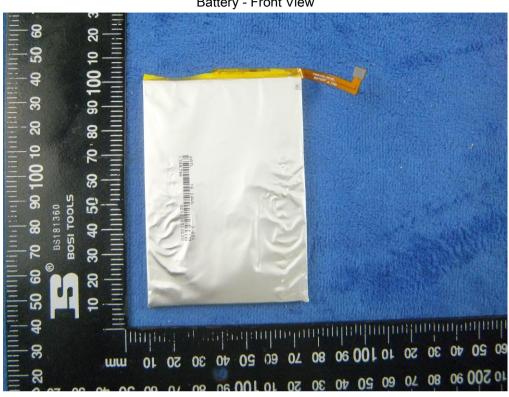
Cover Off - Top View 2





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Battery - Front View



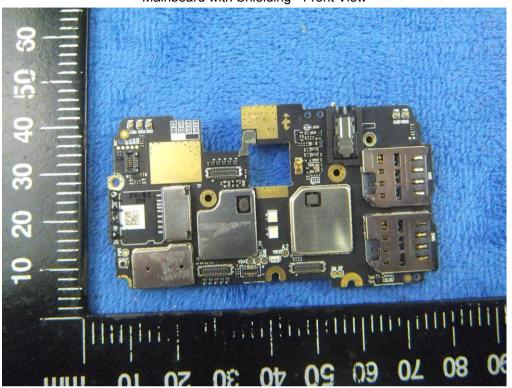
Battery - Rear View



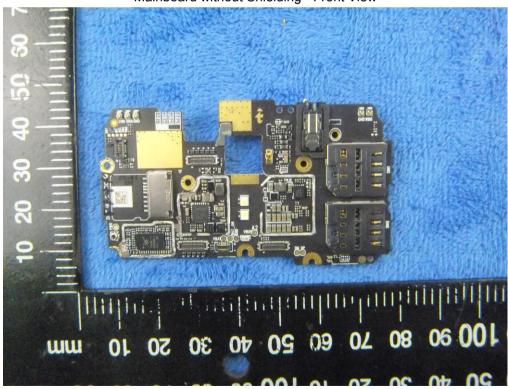


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Mainboard with Shielding - Front View



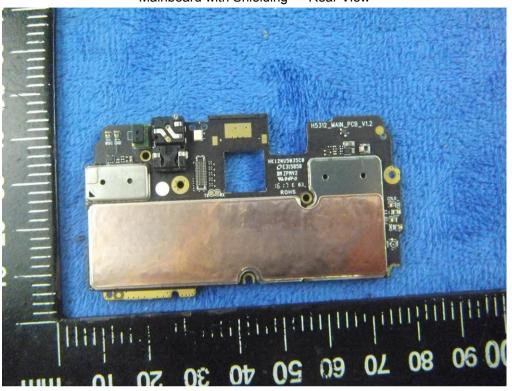
Mainboard without Shielding - Front View





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Mainboard with Shielding - Rear View



Mainboard without Shielding - Rear View





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LCD - Front View



LCD - Rear View





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GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE - Antenna View





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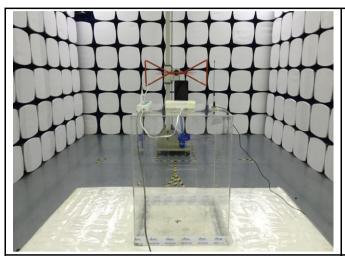
LTE - Antenna View

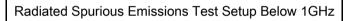


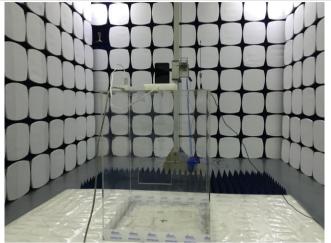


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Annex B.iii. Photograph: Test Setup Photo







Radiated Spurious Emissions Test Setup Above 1GHz

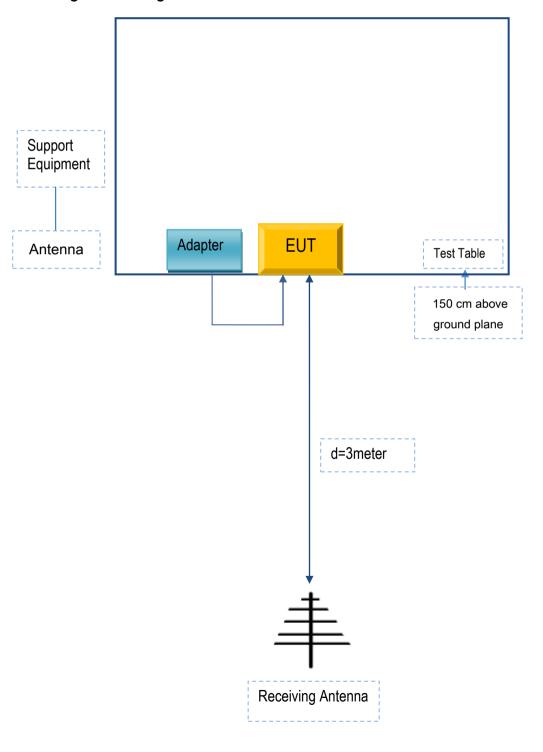


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions





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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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
INFINIX MOBILITY LIMITED	Adapter	CQ-18KX	Z20160348

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	Z20160348



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Annex C.ii. EUT OPERATING CONKITIONS

N/A



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

N/A



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Annex E. DECLARATION OF SIMILARITY

N/A