

TEST REPORT

Product : 4G LTE Mobile Wi-Fi Router
Trade mark : Syeconmax
SKM0138,SKM0338,SKM0538,SKM0738,S
KM0938,SKM1138,SKM1338,SKM1538,SK
M1738,SKM1938,SKM2138,SKM2338,SKM
2538,SKM2738,SKM2938,SKM3138,SKM33
Model/Type reference : 38,SKM3538,SKM3738,SKM3938
Serial Number : N/A
Report Number : EED32P81377602
FCC ID : 2BC2FSKM0138
Date of Issue : Nov. 21, 2023
Test Standards : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
47 CFR Part 27
Test result : PASS

Prepared for:

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Date:

Nov. 21, 2023

Check No.: 6612300823

2 Version

Version No.	Date	Description
00	Nov. 21, 2023	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
FCC Part 22 (GSM 850,WCDMA Band V,LTE Band 5,LTE Band 26)			
Conducted output power	Part 2.1046(a)/Part 22.913(a)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
Effective Radiated Power of Transmitter(ERP)	Part 2.1046(a)/Part 22.913(a)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
99% &26dBOccupied Bandwidth	Part 2.1049(h)	Part 22.917(b) &KDB 971168 D01v02r02	PASS
Band Edge at antenna terminals	Part 2.1051/Part 22.917(a)	Part 22.917(b) &KDB 971168 D01v02r02	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
Field strength of spurious radiation	Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
Frequency stability	Part 2.1055/ Part 22.355	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
FCC Part 24 (GSM 1900,WCDMA Band II,LTE Band 2,LTE Band 25)			
Conducted output power	Part 2.1046(a) /Part 24.232(c)	TIA-603-E-2016&KDB 971168 D01v02r02	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
peak-to-average ratio	Part 24.232(d)	KDB 971168 D01v02r02	PASS
99% &26dBOccupied Bandwidth	Part 2.1049(h)	Part 24.238(b) &KDB 971168 D01v02r02	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 24.238(a)	Part 24.238(b) &KDB 971168 D01v02r02	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
Field strength of spurious radiation	Part 2.1053 /Part 2.1057 / Part 24.238(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
Frequency stability	Part 2.1055/Part 24.235	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS
FCC Part 27 (WCDMA Band IV,LTE Band 4,LTE Band 7,LTE Band 12, LTE Band 13,LTE Band 17,LTE Band 41,LTE Band 66)			
Conducted output power	Part 2.1046(a) /Part 27.50(d)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS

Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 27.50(d)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS
99% &26dBOccupied Bandwidth	Part 2.1049(h)	Part 27.53(h) &KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 27.53(h)	Part 27.53(h) &KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 27.53(h)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1053/ Part 27.53(h)	TIA-603-E-2016&KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54	TIA-603-E-2016&KDB 971168 D01v03r01	PASS

Remark:

Since the main antenna has transmitting and receiving functions and the auxiliary antenna only has receiving functions, only the main antenna was tested. In addition, after the pre-test, the test data of SIM 1 is worse than that of SIM 2, so we chose the worst SIM 1 to test and recorded in the report.

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

- Tx: In this whole report Tx (or tx) means Transmitter.
- Rx: In this whole report Rx (or rx) means Receiver.
- RF: In this whole report RF means Radiated Frequency.
- CH: In this whole report CH means channel.
- Volt: In this whole report Volt means Voltage.
- Temp: In this whole report Temp means Temperature.
- Humid: In this whole report Humid means humidity.
- Press: In this whole report Press means Pressure.
- N/A: In this whole report not application

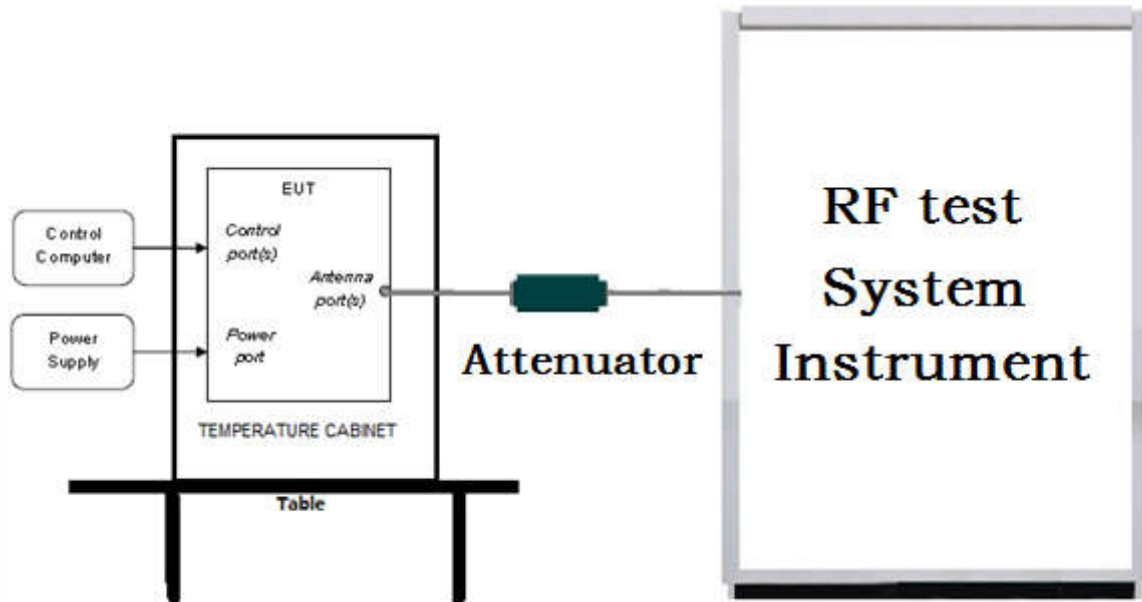
4 Content

1 COVER PAGE	1
2 VERSION	2
3 TEST SUMMARY	3
4 CONTENT	5
5 TEST REQUIREMENT	6
5.1 TEST SETUP	6
5.1.1 <i>For Conducted test setup</i>	6
5.1.2 <i>For Radiated Emissions test setup</i>	6
5.2 TEST ENVIRONMENT	7
6 GENERAL INFORMATION	7
6.1 CLIENT INFORMATION	7
6.2 GENERAL DESCRIPTION OF EUT	7
6.3 DESCRIPTION OF SUPPORT UNITS	9
6.4 TEST LOCATION	9
6.5 DEVIATION FROM STANDARDS	9
6.6 ABNORMALITIES FROM STANDARD CONDITIONS	9
6.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	9
6.8 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	9
7 EQUIPMENT LIST	10
8 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	14
APPENDIX A:FIELD STRENGTH OF SPURIOUS RADIATION	15
PHOTOGRAPHS OF TEST SETUP	24
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	26

5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

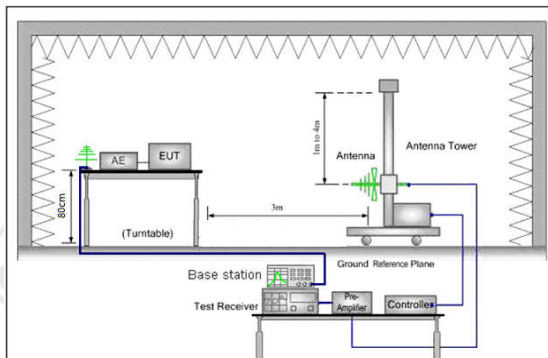


Figure 1.30MHz to 1GHz

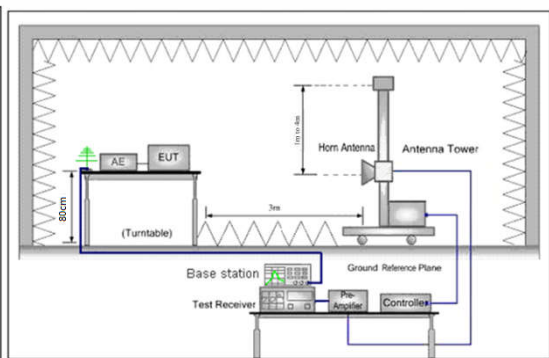


Figure 2. above 1GHz

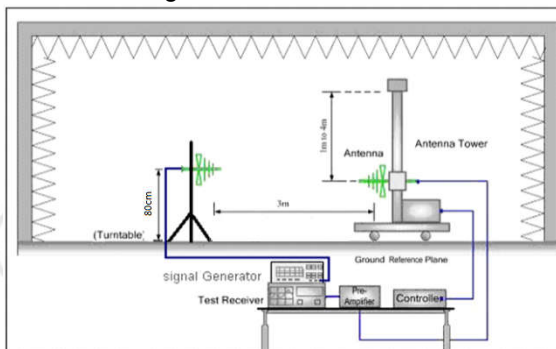


Figure 1. 30MHz to 1GHz

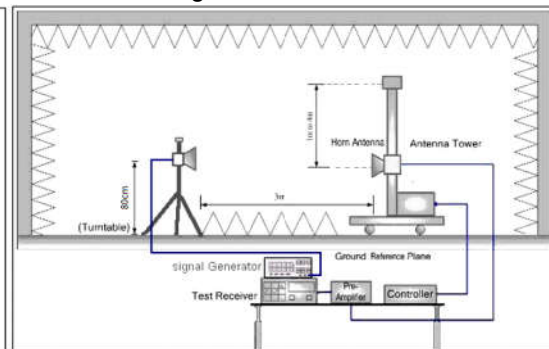


Figure 2. above 1GHz

5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

6 General Information

6.1 Client Information

Applicant:	Shenzhen Syeconmax Technology Co.,Ltd.
Address of Applicant:	Floor 2,Building 8,Lijincheng Industrial Park,Industrial East Road,Longhua District,Shenzhen,China
Manufacturer:	Shenzhen Syeconmax Technology Co.,Ltd.
Address of Manufacturer:	Floor 2,Building 8,Lijincheng Industrial Park,Industrial East Road,Longhua District,Shenzhen,China
Factory:	Huizhou Skyline Intelligent Technology Co., Ltd.
Address of Factory:	3rd and 4th floors of E2-2-2 factory building and 4th floor of E2-2-1 factory building on the south side of Sanhe Avenue, Tonghu Town, Huizhou Zhongkai High-tech Zone.

6.2 General Description of EUT

Product Name:	4G LTE Mobile Wi-Fi Router
Model No.:	SKM0138,SKM0338,SKM0538,SKM0738,SKM0938,SKM1138,SKM1338,SKM1538,SKM1738,SKM1938,SKM2138,SKM2338,SKM2538,SKM2738,SKM2938,SKM3138,SKM3338,SKM3538,SKM3738,SKM3938
Test Model No.:	SKM0138
Trade mark:	Syeconmax
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Frequency Band:	GSM 850: TX:824-849MHz, RX:869-894MHz GSM 1900: TX:1850 -1910MHz, RX:1930-1990MHz WCDMA Band II: TX:1850-1910MHz, RX:1930-1990MHz WCDMA Band IV: TX:1710-1755MHz, RX:2110-2155MHz WCDMA Band V: TX:824-849MHz, RX:869-894MHz LTE Band 2: TX:1850-1910MHz, RX:1930-1990MHz LTE Band 4: TX:1710-1755MHz, RX:2110-2155MHz LTE Band 5: TX:824 - 849 MHz, RX:869-894MHz LTE Band 7: TX:2500-2570MHz, RX:2620-2690MHz LTE Band 12: TX:699-716MHz, RX:729-746MHz LTE Band 13: TX: 777-787MHz, RX:746-756MHz LTE Band 17: TX:704 - 716MHz, RX:734-746MHz LTE Band 25: TX:1850 - 1915MHz, RX:1930-1995 MHz LTE Band 26: TX:824 - 849 MHz,RX:869 - 894MHz LTE Band 41: TX:2496 MHz -2690 MHz,RX:2496 MHz -2690 MHz LTE Band 66: TX:1710MHz-1780MHz,RX:2110MHz-2200MHz
Modulation Type:	GMSK,8PSK,QPSK,16QAM
Antenna Type:	Internal Antenna
Antenna Gain:	GSM 850: 1.17dBi; GSM 1900: 1.85dBi; WCDMA Band II: 1.85dBi; WCDMA Band IV: 1.35dBi;

	WCDMA Band V: 1.17dBi; LTE Band 2: 1.85dBi; LTE Band 4: 1.35dBi; LTE Band 5: 1.17dBi; LTE Band 7: 3.19dBi LTE Band 12: -1.15dBi LTE Band 13: -0.68dBi LTE Band 17: -1.15dBi LTE Band 25: 1.85dBi LTE Band 26: 1.25dBi LTE Band 41: 3.67dBi LTE Band 66: 1.35dBi	
Power Supply:	USB port:	DC 5.0V
	Battery:	DC 3.8V,3000mAh,11.4Wh
Nominal Voltage(NV):	DC 3.800V	
Extreme Hige Voltage (HV):	DC 4.180V	
Extreme Low Voltage (LV):	DC 3.420V	
Sample Received Date:	Sep. 04, 2023	
Sample tested Date:	Sep. 04, 2023 to Nov. 18, 2023	

6.3 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Lenovo	E49	FCC&CE	CTI

6.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.5 Deviation from Standards

None.

6.6 Abnormalities from Standard Conditions

None.

6.7 Other Information Requested by the Customer

None.

6.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

2G/3G/4G Communication RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Agilent	E4440A	MY46185649	10-24-2022 10-23-2023	10-23-2023 10-22-2024
Signal Generator	Keysight	E8257D	MY53401106	12-19-2022	12-18-2023
Signal Generator	Agilent	E4438C	MY45095744	12-19-2022	12-18-2023
Communication test set	R&S	CMW500	120765	12-23-2022	12-22-2023
DC Power	Keysight	E3642A	MY56376035	12-19-2022	12-18-2023
RF control unit	JS Tonscend	JS0806-1	158060004	12-23-2022	12-22-2023
DC power Box	JS Tonscend	JS0806-4	158060007	---	---
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-01-2023	05-31-2024
Automatic test software	JS Tonscend	JS1120	V2.6.9.0518	---	---
Band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395- 001	---	---	---
Band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393- 001	---	---	---
Band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396- 002	---	---	---
Band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394- 001	---	---	---
Band rejection	Sinoscite	FL5CX02CA03	---	---	---

filter		CL12-0397-002			
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-25-2023	07-24-2024
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-22-2022	05-21-2025
Receiver	R&S	ESCI7	100938-003	09-28-2022 09-22-2023	09-27-2023 09-21-2024
Spectrum Analyzer	R&S	FSV40	101200	07-29-2022 07-25-2023	07-28-2023 07-24-2024
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-22-2022 05-21-2023	05-21-2023 05-20-2024
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-17-2021	04-16-2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05-29-2021	05-28-2024
Preamplifier	Agilent	11909A	12-1	03-28-2023	03-27-2024
Preamplifier	EMCI	EMC051845SE	980380	12-23-2022	12-22-2023
Preamplifier	CD	PAP-1840-60	6041.6042	07-05-2022 07-03-2023	07-04-2023 07-02-2024
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	PART 22	PART 22 – PUBLIC MOBILE SERVICES Subpart H – Cellular Radiotelephone Service
2	PART 24	PART 24 – PERSONAL COMMUNICATIONS SERVICES Subpart E – Broadband PCS
3	PART 27	PART 27 – MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES Subpart C – Technical Standards
4	PART 90	PART 90—PRIVATE LAND MOBILE RADIO SERVICES
5	PART 2	Frequency allocations and radio treaty matters; general rules and regulations
6	TIA-603-E-2016	Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards
7	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v02r02
8	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

Test Results List:

Test Method:		Test Descriptions & Test Conditions	Verdict	Note
ANSI C63.26-2015	Clause 5.2	RF output power		Note 1
		NT/NV	PASS	
ANSI C63.26-2015	Clause 5.4	99% & 26dB Occupied Bandwidth		Note 1
		NT/NV	PASS	
ANSI C63.26-2015	Clause 5.2	Peak to average power ratio		Note 1
		NT/NV	PASS	
ANSI C63.26-2015	Clause 5.5	Spurious emissions		Appendix A)
		NT/NV	PASS	
ANSI C63.26-2015	Clause 5.7	Spurious emissions at antenna terminals		Note 1
		NT/NV	PASS	
ANSI C63.26-2015	Clause 5.6	Frequency stability		Note 1
		NT/NV	PASS	
		LT/LV	PASS	
		LT/HV	PASS	
		HT/LV	PASS	
		HT/HV	PASS	

Note 1:

The test data please refer to
 EED32P81377602 Appendix: GSM, EED32P81377602 Appendix: WCDMA,
 EED32P81377602 Appendix: LTE Band 2, EED32P81377602 Appendix: LTE Band 4,
 EED32P81377602 Appendix: LTE Band 5, EED32P81377602 Appendix: LTE Band 7,
 EED32P81377602 Appendix: LTE Band 12, EED32P81377602 Appendix: LTE Band 13,
 EED32P81377602 Appendix: LTE Band 17, EED32P81377602 Appendix: LTE Band 25,
 EED32P81377602 Appendix: LTE Band 26, EED32P81377602 Appendix: LTE Band 41,
 EED32P81377602 Appendix: LTE Band 66.

Appendix A: Field strength of spurious radiation

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
	30MHz-1GHz	Peak	120kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Measurement Procedure:	<ol style="list-style-type: none"> 1. Scan up to 10th harmonic, find the maximum radiation frequency to measure. 2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT. <p>Test procedure as below:</p> <ol style="list-style-type: none"> 1) The EUT was powered ON and placed on a 0.8m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test. 2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter. 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions. 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7) were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: $\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$ $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ $\text{EIRP} = \text{ERP} + 2.15\text{dB}$ where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, And found the X axis positioning which it is worse case. 12) Repeat above procedures until all frequencies measured was complete. 				
Limit:	Attenuated at least 43+10log(P)				

Measurement Data:

Remark: Only the worst case data was recorded in the report.

Mode		GSM		Remark				
Band		850		Channel		192		
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-64.54	-13.00	51.54	PASS	Horizontal
2	137.1094	150	3	-68.66	-13.00	55.66	PASS	Horizontal
3	762.3025	150	35	-65.12	-13.00	52.12	PASS	Horizontal
4	1269.0269	150	160	-61.54	-13.00	48.54	PASS	Horizontal
5	5029.6015	150	95	-57.15	-13.00	44.15	PASS	Horizontal
6	14389.3195	150	212	-46.31	-13.00	33.31	PASS	Horizontal
7	40.09	150	207	-62.31	-13.00	49.31	PASS	Vertical
8	69.5839	150	62	-65.20	-13.00	52.20	PASS	Vertical
9	208.9038	150	46	-63.61	-13.00	50.61	PASS	Vertical
10	1270.8271	150	345	-60.95	-13.00	47.95	PASS	Vertical
11	5010.1005	150	90	-56.48	-13.00	43.48	PASS	Vertical
12	14353.3177	150	28	-46.79	-13.00	33.79	PASS	Vertical

Mode		GSM		Remark				
Band		1900		Channel		660		
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	69.778	150	184	-68.16	-13.00	55.16	PASS	Horizontal
2	137.1094	150	337	-68.95	-13.00	55.95	PASS	Horizontal
3	749.3019	150	109	-68.45	-13.00	55.45	PASS	Horizontal
4	1294.2294	150	3	-48.22	-13.00	35.22	PASS	Horizontal
5	5026.7027	150	357	-57.01	-13.00	44.01	PASS	Horizontal
6	14411.6412	150	327	-46.90	-13.00	33.90	PASS	Horizontal
7	40.2841	150	128	-60.35	-13.00	47.35	PASS	Vertical
8	160.006	150	3	-63.91	-13.00	50.91	PASS	Vertical
9	457.6615	150	202	-68.95	-13.00	55.95	PASS	Vertical
10	1279.828	150	64	-48.73	-13.00	35.73	PASS	Vertical
11	4998.1998	150	281	-56.95	-13.00	43.95	PASS	Vertical
12	16499.85	150	273	-46.48	-13.00	33.48	PASS	Vertical

Mode		WCDMA		Remark				
Band		Band=2 BW=20MHz		Channel			9262	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-66.46	-13.00	53.46	PASS	Horizontal
2	160.006	150	3	-70.34	-13.00	57.34	PASS	Horizontal
3	638.3117	150	202	-64.30	-13.00	51.30	PASS	Horizontal
4	1289.2289	150	265	-48.91	-13.00	35.91	PASS	Horizontal
5	3706.5353	150	8	-29.98	-13.00	16.98	PASS	Horizontal
6	7413.2207	150	73	-30.75	-13.00	17.75	PASS	Horizontal
7	86.8534	150	277	-65.11	-13.00	52.11	PASS	Vertical
8	184.2609	150	329	-66.91	-13.00	53.91	PASS	Vertical
9	745.227	150	3	-63.36	-13.00	50.36	PASS	Vertical
10	1248.4248	150	96	-48.68	-13.00	35.68	PASS	Vertical
11	3707.2854	150	215	-38.51	-13.00	25.51	PASS	Vertical
12	7413.9707	150	215	-28.51	-13.00	15.51	PASS	Vertical

Mode		WCDMA		Remark				
Band		Band=4 BW=20MHz		Channel			1312	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-65.81	-13.00	52.81	PASS	Horizontal
2	160.006	150	3	-71.49	-13.00	58.49	PASS	Horizontal
3	208.9038	150	353	-73.51	-13.00	60.51	PASS	Horizontal
4	1305.4305	150	155	-49.27	-13.00	36.27	PASS	Horizontal
5	3423.0212	150	302	-33.48	-13.00	20.48	PASS	Horizontal
6	6854.4427	150	314	-37.77	-13.00	24.77	PASS	Horizontal
7	65.8972	150	207	-62.20	-13.00	49.20	PASS	Vertical
8	208.9038	150	14	-66.81	-13.00	53.81	PASS	Vertical
9	737.4655	150	3	-58.42	-13.00	45.42	PASS	Vertical
10	1247.0247	150	30	-49.09	-13.00	36.09	PASS	Vertical
11	3426.0213	150	194	-40.18	-13.00	27.18	PASS	Vertical
12	6853.6927	150	304	-37.23	-13.00	24.23	PASS	Vertical

Mode		WCDMA		Remark				
Band		Band=5 BW=20MHz		Channel			4132	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-63.16	-13.00	50.16	PASS	Horizontal
2	137.1094	150	344	-68.20	-13.00	55.20	PASS	Horizontal
3	252.9506	150	200	-67.88	-13.00	54.88	PASS	Horizontal
4	1650.065	150	56	-58.50	-13.00	45.50	PASS	Horizontal
5	10220.611	150	194	-49.32	-13.00	36.32	PASS	Horizontal
6	14520.576	150	204	-46.22	-13.00	33.22	PASS	Horizontal
7	40.09	150	328	-62.12	-13.00	49.12	PASS	Vertical
8	69.3899	150	354	-64.44	-13.00	51.44	PASS	Vertical
9	160.006	150	3	-63.19	-13.00	50.19	PASS	Vertical
10	1376.0376	150	79	-61.17	-13.00	48.17	PASS	Vertical
11	4998.0999	150	30	-56.79	-13.00	43.79	PASS	Vertical
12	14402.0701	150	149	-45.29	-13.00	32.29	PASS	Vertical

Mode		LTE		Remark				
Band		Band=2 BW=20MHz		Channel			18900	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-67.56	-13.00	54.56	PASS	Horizontal
2	120.034	150	3	-58.89	-13.00	45.89	PASS	Horizontal
3	208.9038	150	304	-71.88	-13.00	58.88	PASS	Horizontal
4	1289.0289	150	185	-48.57	-13.00	35.57	PASS	Horizontal
5	3759.788	150	233	-39.44	-13.00	26.44	PASS	Horizontal
6	7519.726	150	128	-44.68	-13.00	31.68	PASS	Horizontal
7	36.5973	150	132	-60.69	-13.00	47.69	PASS	Vertical
8	120.034	150	3	-60.88	-13.00	47.88	PASS	Vertical
9	160.006	150	3	-62.77	-13.00	49.77	PASS	Vertical
10	1272.6273	150	221	-47.70	-13.00	34.70	PASS	Vertical
11	3759.788	150	340	-43.14	-13.00	30.14	PASS	Vertical
12	5633.3817	150	20	-42.92	-13.00	29.92	PASS	Vertical

Mode		LTE		Remark				
Band		Band=4 BW=20MHz		Channel			20175	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-67.62	-13.00	54.62	PASS	Horizontal
2	120.034	150	3	-59.29	-13.00	46.29	PASS	Horizontal
3	208.9038	150	289	-72.39	-13.00	59.39	PASS	Horizontal
4	1251.2251	150	289	-49.16	-13.00	36.16	PASS	Horizontal
5	3480.774	150	114	-40.04	-13.00	27.04	PASS	Horizontal
6	6930.1965	150	132	-46.91	-13.00	33.91	PASS	Horizontal
7	60.076	150	307	-65.24	-13.00	52.24	PASS	Vertical
8	120.034	150	3	-62.21	-13.00	49.21	PASS	Vertical
9	160.006	150	3	-64.10	-13.00	51.10	PASS	Vertical
10	1286.8287	150	206	-49.20	-13.00	36.20	PASS	Vertical
11	3465.0233	150	340	-47.09	-13.00	34.09	PASS	Vertical
12	6930.1965	150	322	-45.81	-13.00	32.81	PASS	Vertical

Mode		LTE		Remark				
Band		Band=5 BW=20MHz		Channel			20525	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-66.01	-13.00	53.01	PASS	Horizontal
2	120.034	150	3	-57.40	-13.00	44.40	PASS	Horizontal
3	208.9038	150	144	-72.66	-13.00	59.66	PASS	Horizontal
4	1266.8267	150	59	-58.59	-13.00	45.59	PASS	Horizontal
5	3346.5173	150	290	-51.03	-13.00	38.03	PASS	Horizontal
6	14366.0683	150	247	-45.41	-13.00	32.41	PASS	Horizontal
1	36.7914	150	260	-60.84	-13.00	47.84	PASS	Vertical
2	120.034	150	3	-60.88	-13.00	47.88	PASS	Vertical
3	160.006	150	3	-62.16	-13.00	49.16	PASS	Vertical
4	1271.8272	150	3	-58.29	-13.00	45.29	PASS	Vertical
5	3345.7673	150	357	-52.17	-13.00	39.17	PASS	Vertical
6	11950.9475	150	0	-48.59	-13.00	35.59	PASS	Vertical

Mode		LTE		Remark				
Band		Band=7 BW=20MHz		Channel			21100	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-68.69	-13.00	55.69	PASS	Horizontal
2	120.034	150	3	-56.89	-13.00	43.89	PASS	Horizontal
3	625.117	150	3	-73.58	-13.00	60.58	PASS	Horizontal
4	1308.0308	150	242	-48.93	-13.00	35.93	PASS	Horizontal
5	5079.104	150	258	-50.80	-13.00	37.80	PASS	Horizontal
6	7608.9804	150	234	-47.64	-13.00	34.64	PASS	Horizontal
7	35.4331	150	222	-61.66	-13.00	48.66	PASS	Vertical
8	120.034	150	3	-60.38	-13.00	47.38	PASS	Vertical
9	160.006	150	3	-64.17	-13.00	51.17	PASS	Vertical
10	1286.4286	150	222	-48.25	-13.00	35.25	PASS	Vertical
11	5079.104	150	265	-46.89	-13.00	33.89	PASS	Vertical
12	10149.3575	150	0	-44.14	-13.00	31.14	PASS	Vertical

Mode		LTE		Remark				
Band		Band=12 BW=20MHz		Channel			23095	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-66.19	-13.00	53.19	PASS	Horizontal
2	120.034	150	3	-61.13	-13.00	48.13	PASS	Horizontal
3	208.9038	150	3	-73.34	-13.00	60.34	PASS	Horizontal
4	1421.0421	150	169	-52.52	-13.00	39.52	PASS	Horizontal
5	3540.027	150	260	-55.98	-13.00	42.98	PASS	Horizontal
6	9808.0904	150	26	-49.98	-13.00	36.98	PASS	Horizontal
7	60.076	150	50	-65.00	-13.00	52.00	PASS	Vertical
8	120.034	150	3	-60.52	-13.00	47.52	PASS	Vertical
9	160.006	150	3	-63.08	-13.00	50.08	PASS	Vertical
10	1414.8415	150	336	-53.95	-13.00	40.95	PASS	Vertical
11	3537.0269	150	357	-56.13	-13.00	43.13	PASS	Vertical
12	11395.9198	150	192	-48.97	-13.00	35.97	PASS	Vertical

Mode		LTE		Remark				
Band		Band=13 BW=20MHz		Channel			23230	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-67.80	-13.00	54.80	PASS	Horizontal
2	120.034	150	3	-57.77	-13.00	44.77	PASS	Horizontal
3	208.9038	150	317	-72.10	-13.00	59.10	PASS	Horizontal
4	2344.5345	150	170	-54.02	-13.00	41.02	PASS	Horizontal
5	4692.8346	150	260	-57.02	-13.00	44.02	PASS	Horizontal
6	15143.8572	150	330	-46.30	-13.00	33.30	PASS	Horizontal
7	36.9854	150	315	-60.78	-13.00	47.78	PASS	Vertical
8	120.034	150	3	-59.41	-13.00	46.41	PASS	Vertical
9	160.006	150	3	-63.22	-13.00	50.22	PASS	Vertical
10	1572.6573	150	22	-52.40	-13.00	39.40	PASS	Vertical
11	5469.8735	150	86	-53.75	-13.00	40.75	PASS	Vertical
12	14406.5703	150	201	-46.74	-13.00	33.74	PASS	Vertical

Mode		LTE		Remark				
Band		Band=17 BW=20MHz		Channel			23790	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-66.49	-13.00	53.49	PASS	Horizontal
2	120.034	150	252	-63.21	-13.00	50.21	PASS	Horizontal
3	208.9038	150	307	-72.58	-13.00	59.58	PASS	Horizontal
4	1427.6428	150	353	-49.40	-13.00	36.40	PASS	Horizontal
5	5008.6004	150	214	-54.51	-13.00	41.51	PASS	Horizontal
6	14553.5777	150	4	-46.84	-13.00	33.84	PASS	Horizontal
7	36.5973	150	279	-61.05	-13.00	48.05	PASS	Vertical
8	60.076	150	178	-65.07	-13.00	52.07	PASS	Vertical
9	160.006	150	3	-63.51	-13.00	50.51	PASS	Vertical
10	1420.242	150	316	-54.52	-13.00	41.52	PASS	Vertical
11	5005.6003	150	143	-54.87	-13.00	41.87	PASS	Vertical
12	14480.074	150	34	-46.53	-13.00	33.53	PASS	Vertical

Mode		LTE		Remark				
Band		Band=25 BW=20MHz		Channel			26365	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-66.14	-13.00	53.14	PASS	Horizontal
2	120.034	150	3	-59.10	-13.00	46.10	PASS	Horizontal
3	208.9038	150	313	-72.74	-13.00	59.74	PASS	Horizontal
4	3748.5374	150	270	-43.55	-13.00	30.55	PASS	Horizontal
5	5646.1323	150	244	-44.47	-13.00	31.47	PASS	Horizontal
6	7530.2265	150	236	-45.48	-13.00	32.48	PASS	Horizontal
7	36.5973	150	59	-60.27	-13.00	47.27	PASS	Vertical
8	120.034	150	3	-60.61	-13.00	47.61	PASS	Vertical
9	160.006	150	3	-63.22	-13.00	50.22	PASS	Vertical
10	1303.6304	150	197	-48.23	-13.00	35.23	PASS	Vertical
11	5644.6322	150	23	-42.18	-13.00	29.18	PASS	Vertical
12	7530.2265	150	322	-44.04	-13.00	31.04	PASS	Vertical

Mode		LTE		Remark				
Band		Band=26 BW=20MHz		Channel			26865	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-69.72	-13.00	56.72	PASS	Horizontal
2	120.034	150	3	-60.77	-13.00	47.77	PASS	Horizontal
3	208.9038	150	296	-72.82	-13.00	59.82	PASS	Horizontal
4	1665.2665	150	86	-59.42	-13.00	46.42	PASS	Horizontal
5	3326.2663	150	62	-53.54	-13.00	40.54	PASS	Horizontal
6	14403.5702	150	273	-46.41	-13.00	33.41	PASS	Horizontal
7	44.1648	150	3	-64.70	-13.00	51.70	PASS	Vertical
8	120.034	150	3	-59.84	-13.00	46.84	PASS	Vertical
9	160.006	150	3	-62.12	-13.00	49.12	PASS	Vertical
10	1277.2277	150	193	-57.98	-13.00	44.98	PASS	Vertical
11	3326.2663	150	0	-54.59	-13.00	41.59	PASS	Vertical
12	11962.9481	150	112	-48.23	-13.00	35.23	PASS	Vertical

Mode		LTE		Remark				
Band		Band=41 BW=20MHz		Channel			40620	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-70.27	-13.00	57.27	PASS	Horizontal
2	120.034	150	3	-57.93	-13.00	44.93	PASS	Horizontal
3	208.9038	150	324	-72.53	-13.00	59.53	PASS	Horizontal
4	1344.4344	150	3	-50.52	-13.00	37.52	PASS	Horizontal
5	5195.3598	150	303	-43.52	-13.00	30.52	PASS	Horizontal
6	16568.9284	150	0	-46.34	-13.00	33.34	PASS	Horizontal
7	36.7914	150	78	-61.17	-13.00	48.17	PASS	Vertical
8	120.034	150	3	-61.09	-13.00	48.09	PASS	Vertical
9	160.006	150	3	-63.41	-13.00	50.41	PASS	Vertical
10	1340.434	150	261	-50.48	-13.00	37.48	PASS	Vertical
11	5195.3598	150	313	-43.77	-13.00	30.77	PASS	Vertical
12	14399.07	150	321	-46.39	-13.00	33.39	PASS	Vertical

Mode		LTE		Remark				
Band		Band=66 BW=20MHz		Channel			132322	
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.062	150	3	-65.99	-13.00	52.99	PASS	Horizontal
2	120.034	150	3	-58.35	-13.00	45.35	PASS	Horizontal
3	208.9038	150	340	-72.05	-13.00	59.05	PASS	Horizontal
4	1281.6282	150	321	-50.14	-13.00	37.14	PASS	Horizontal
5	4997.3499	150	142	-55.12	-13.00	42.12	PASS	Horizontal
6	14404.3202	150	217	-46.44	-13.00	33.44	PASS	Horizontal
7	35.6271	150	222	-61.06	-13.00	48.06	PASS	Vertical
8	120.034	150	3	-60.85	-13.00	47.85	PASS	Vertical
9	160.006	150	3	-63.54	-13.00	50.54	PASS	Vertical
10	1398.2398	150	348	-50.65	-13.00	37.65	PASS	Vertical
11	8926.0463	150	322	-52.51	-13.00	39.51	PASS	Vertical
12	14399.82	150	262	-46.02	-13.00	33.02	PASS	Vertical