



FCC REPORT

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Report Reference No:	CHTEW20120120 Rep	oort verification:			
Project No:	SHT2011088101EW				
FCC ID::	2AAA6-S241	Reportive: Cirret/20120120			
Applicant's name:	SENWA MEXICO,S.A.DE C.V				
Address:	CARRETERA MEXICO-TOLUCA No COL. EL YAQUI, CUAJIMALPA DE M MEXICO, Mexico				
Manufacturer	SENWA GLOBAL INTERNATIONAL	. SA DE CV			
Address	Rm.1218 Block A Chuangxin Building RD.Nanshan District ShenZhen	g No.198 Daxin			
Test item description:	Mobile phone				
Trade Mark	SENWA				
Model/Type reference:	S241				
Listed Model(s):	-				
Standard:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22				
	FCC CFR Title 47 Part 24				
Date of receipt of test sample:	Nov. 30, 2020				
Date of testing	Dec. 01, 2020- Dec. 16, 2020				
Date of issue	Dec. 17, 2020				
Result:	Pass				
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Approved by (position+printedname+signature):	Manager Hans Hu	Homsty			
Testing Laboratory Name: :	Shenzhen Huatongwei Internationa	al Inspection Co., Ltd.			
Address					
Shenzhen Huatongwei International I					

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

<u>TIA/EIA 603 E March 2016:</u> Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2020-12-17	Original

2. <u>Test Description</u>

Test Item	Section in CFR 47	Result	Test Engineer	
	Part 2.1046			
Conducted Output Power	Part 22.913(a)	Pass	Jiongsheng Feng	
	Part 24.232(c)			
Peak-to-Average Ratio	Part 24.232	Pass	Jiongsheng Feng	
	Part 2.1049			
99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass	Jiongsheng Feng	
Dandwidth	Part 24.238(b)			
	Part 2.1051			
Band Edge	Part 22.917	Pass	Jiongsheng Feng	
	Part 24.238			
	Part 2.1051			
Conducted Spurious Emissions	Part 22.917	Pass	Jiongsheng Feng	
	Part 24.238			
	Part 2.1055(a)(1)(b)			
Frequency stability VS Temperature	Part 22.355	Pass	Jiongsheng Feng	
	Part 24.235			
	Part 2.1055(d)(1)(2)			
Frequency stability VS Voltage	Part 22.355	Pass	Jiongsheng Feng	
	Part 24.235			
ERP and EIRP	Part 22.913(a)	Pass	Pan Xie	
ERP and EIRP	Part 24.232(b)	Pass	Pan Ale	
	Part 2.1053			
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie	
	Part 24.238			

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	SENWA MEXICO,S.A.DE C.V
Address:	CARRETERA MEXICO-TOLUCA No. 5324, INT. PLANTA BAJA COL. EL YAQUI, CUAJIMALPA DE MORELOS CIUDAD DE MEXICO,Mexico
Manufacturer:	SENWA GLOBAL INTERNATIONAL SA DE CV
Address:	Rm.1218 Block A Chuangxin Building No.198 Daxin RD.Nanshan District ShenZhen

3.2. Product Description

Name of EUT:	Mobile phone			
Trade Mark:	SENWA	SENWA		
Model No.:	S241			
Listed Model(s):	-			
SIM Information:	Support One SIM	/I Card		
Power supply:	DC 3.7V			
Adapter information:	Input: AC100-24 Output: 5.0Vdc,5	0V, 50/60Hz, 0.15A 500mA		
Hardware version:	SENWA_S241_Ver1.0			
Software version:	SENWA_S241_Ver1.0			
2G:				
Support Network:	GSM, GPRS			
Support Band:	GSM850, PCS19	900		
Modulation:	GSM/GPRS:	GMSK		
Transmit Frequency:	GSM850:	824.20MHz-848.80MHz		
	PCS1900:	1850.20MHz-1909.80MHz		
Receive Frequency:	GSM850:	869.20MHz-893.80MHz		
	PCS1900: 1930.20MHz-1989.80MHz			
GPRS Multislot Class:	12			
Antenna type:	PIFA Antenna			
Antenna gain:	GSM850:0.16dBi PCS1900: 0.18dBi			

3.3. Operation state

Test frequency list

GSN	1850	PCS1900		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
128	824.20	512	1850.20	
190	836.60	661	1880.00	
251	848.80	810	1909.80	

Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test modes							
Band	Radiated Conducted						
GSM 850	GSM linkGPRS Class 8 link	GSM linkGPRS Class 8 link					
PCS 1900	GSM linkGPRS Class 8 link	GSM linkGPRS Class 8 link					

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

• - supplied by the manufacturer

0	- supplied by the lab		
	/	Manufacturer:	/
0		Model No.:	/
	_ /	Manufacturer:	/
0	/	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2020/10/19	2021/10/18
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2020/10/19	2021/10/18
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2020/10/19	2021/10/18
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spurious Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26	
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19	
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01	
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/12	2021/10/11	
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03	
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31	
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/12	2021/11/11	
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/10	2021/05/09	
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09	
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09	
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09	
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09	
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09	
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A	

•	Auxiliary Equipment								
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2020/10/21	2021/10/20		
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A		

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.70V				
Voltage	VL=Lower Voltage	DC 3.60V				
	VH=Higher Voltage	DC 4.20V				
Tama and ma	TN=Normal Temperature	25 °C				
Temperature	Extreme Temperature	From −30° to + 50° centigrade				
Humidity	30~60 %					
Air Pressure	950-1050 hPa					

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibility Radio spectrum Matters (ERM);Uncertainties compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes	
Transmitter power conducted	0.51 dB	(1)	
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)	
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)	
Radiated spurious emissions	2.66dB for <1GHz 3.44dB for >1GHz	(1)	
Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)	
Frequency error	15Hz for <1GHz 70Hz for >1GHz	(1)	

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

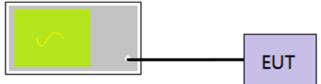
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

N/A

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

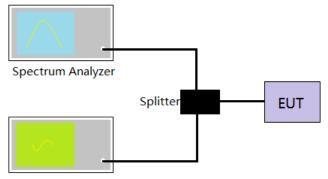
Refer to appendix A on the section 8 appendix report

5.2. Peak-to-Average Ratio

<u>LIMIT</u>

13dB

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

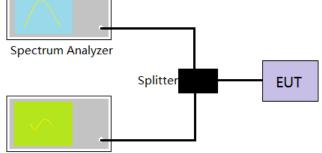
Refer to appendix B on the section 8 appendix report

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u> N/A

TEST CONFIGURATION





Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

🛛 Passed

Not Applicable

Refer to appendix C on the section 8 appendix report

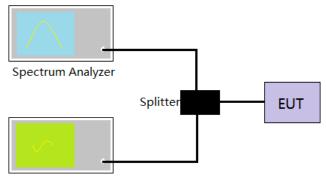
5.4. Band Edge

<u>LIMIT</u>

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- 4. Spectrum analyzer setting as follow:

RBW=3KHz, VBW = 10KHz, Sweep time= Auto

5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Refer to appendix D on the section 8 appendix report

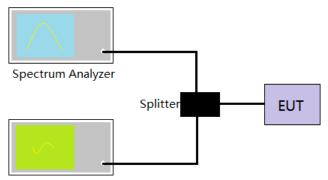
5.5. Conducted Spurious Emissions

<u>LIMIT</u>

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow: Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.
- 4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

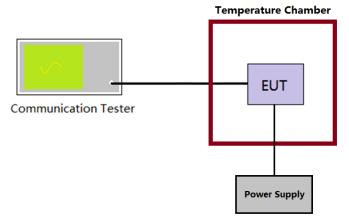
Refer to appendix E on the section 8 appendix report

5.6. Frequency stability VS Temperature measurement

<u>LIMIT</u>

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Refer to appendix F on the section 8 appendix report

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

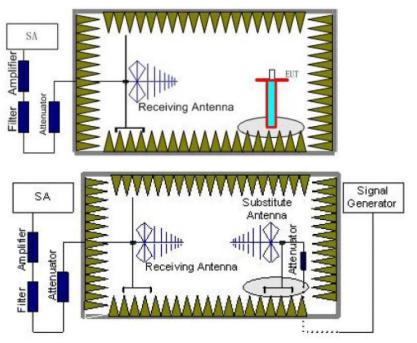
Refer to appendix F on the section 8 appendix report

5.8. ERP and EIRP

<u>LIMIT</u>

GSM850: 7W (38.45dBm) ERP PCS1900: 2W (33dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow: Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any

potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
 Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd)
 where
 Pe = equivalent emission power in dBm
 - Ps = source (signal generator) power in dBm
 - NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) 2.15 dB.
- If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result	
001/050	128	V	28.65			
	120	Н	19.28		Pass	
	190	V	29.60	<38.45		
GSM850		Н	20.20	<30.45		
	251	V	29.91			
		Н	17.22			
	128	V	28.72		Pass	
	120	Н	19.34			
GPRS850	190 251	V	29.63	<38.45		
GPR3030		Н	20.36	<30.45	F 855	
		V	30.17			
		Н	18.15			

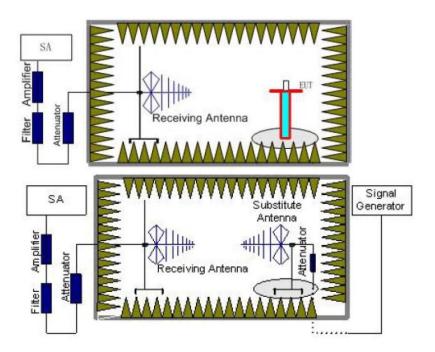
Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result	
	512	V	24.68			
	512	Н	26.20		Pass	
PCS1900	661	V	25.61	-33.00		
PC31900		Н	27.54	<33.00		
	810	V	25.81			
		Н	27.30			
	512	V	24.52		Pass	
	512	Н	26.35			
GPRS1900	661	V	25.83	-33.00		
GPR31900		Н	27.23	<33.00	F d 5 5	
	810	V	25.14			
		Н	27.46			

5.9. Radiated Spurious Emission

<u>LIMIT</u>

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow: Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by

the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note: Worst case at GSM850/PCS1900

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Channel: 251					Polarization: Horizontal				
Mar <mark>k</mark>	Frequency	Reading	Antenna		Preamp		Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Deels
1	41.75	-69.60	27.30	6.57	30.91	-66.64	-13.00	-53.64	Peak
2	688.42	-69.84	28.16	9.23		-62.14	-13.00	-49.14	Peak
3	1698.14	-58.94	36.34	11.70		-38.46	-13.00	-25.46	Peak
4	2547.01	-68.22	39.03	14.17	26.13	-41.15	-13.00	-28.15	Peak
5	3700.48	-72.54	42.29	9.79		-57.51	-13.00	-44.51	Peak
6	7641.47	-72.78	47.68	14.69	33.17	-43.58	-13.00	-30.58	Peak
Channel: 251		Polarization: Vertical							
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	45.43	-64.33	21.08	6.60		-67.53	-13.00	-54.53	Peak
2	641.67	-71.44	28.62	9.08		-63.58		-50.58	Peak
3	1698.14	-50.78	36.23	11.70		-30.41	-13.00	-17.41	Peak
4	2673.15	-71.79	39.72	14.40		-42.38	-13.00	-29.38	Peak
5	4240.94	-70.87	42.63	10.44		-53.89	-13.00	-40.89	Peak
6	7641.47	-72.71	48.31	14.69	33.17	-42.88	-13.00	-29.88	Peak
Channel: 190					Polariz	ation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
ING! N	MHz	dBm	dB	dB	dB	dBm	dBm	limit	NCIII N
									Deals
1	41.17	-62.41	27.72	6.57	30.91		-13.00	-46.03	Peak
2	419.30	-51.19	25.89	8.37		-47.05	-13.00	-34.05	Peak
3	1674.06	-58.40	36.25	11.68	27.76	-38.23	-13.00	-25.23	Peak
4	2617.93	-58.51	38.93	14.47	25.46	-30.57	-13.00	-17.57	Peak
5	3436.65	-67.84	40.11	9.29	36.59	-55.03	-13.00	-42.03	Peak
6	7619.34	-75.91	47.65	14.68	33.18	-46.76	-13.00	-33.76	Peak
Channel: 190		Polarization: Vertical							
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	41.17	-62.42	21.72	6.57	30,91	-65.04	-13.00	-52.04	Peak
2	374.67	-74.02	25.20	8.22	30.13	-70.73	-13.00	-57.73	Peak
3	1672.22	-56.15	36.17	11.68	27.78	-36.08	-13.00	-23.08	Peak
4	2252.13	-69.20	41.08	12.74		-43.54	-13.00	-30.54	Peak
5	3436.65	-69.97	40.14	9.29		-57.13	-13.00	-44.13	Peak
2		-71.90	47.86	14.45	33.32	-42.91	-13.00	-29.91	Peak
6	7946.62	11.00					5-12-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5		Charles and the second s
100	7946.62	71.50			Polariz	ation: Hori	zontal		
						ation: Hori			
100	7946.62 Frequency	Reading	Antenna		Preamp	Level	Limit	Over	Remark
Channel: 128				Cable dB				Over limit	Remark
Channel: 128	Frequency	Reading	Antenna		Preamp dB	Level	Limit		
Channel: 128 Mark	Frequency MHz	Reading dBm	Antenna dB	dB	Preamp dB 30.88	Level dBm	Limit dBm	limit -53.84	Peak
Channel: 128 Mark 1 2	Frequency MHz 41.46 411.99	Reading dBm -70.04 -76.83	Antenna dB 27.51 26.01	dB 6.57 8.35	Preamp dB 30.88 30.17	Level dBm -66.84 -72.64	Limit dBm -13.00 -13.00	limit -53.84 -59.64	Peak Peak
Channel: 128 Mark 1 2 3	Frequency MHz 41.46 411.99 1648.51	Reading dBm -70.04 -76.83 -55.37	Antenna dB 27.51 26.01 36.15	dB 6.57 8.35 <mark>11.6</mark> 7	Preamp dB 30.88 30.17 29.05	Level dBm -66.84 -72.64 -36.60	Limit dBm -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60	Peak Peak Peak
Channel: 128 Mark 1 2 3 4	Frequency MHz 41.46 411.99 1648.51 2629.46	Reading dBm -70.04 -76.83 -55.37 -54.17	Antenna dB 27.51 26.01 36.15 39.05	dB 6.57 8.35 11.67 14.46	Preamp dB 30.88 30.17 29.05 26.66	Level dBm -66.84 -72.64 -36.60 -27.32	Limit dBm -13.00 -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32	Peak Peak Peak Peak
Channel: 128 Mark 1 2 3	Frequency MHz 41.46 411.99 1648.51	Reading dBm -70.04 -76.83 -55.37	Antenna dB 27.51 26.01 36.15	dB 6.57 8.35 <mark>11.6</mark> 7	Preamp dB 30.88 30.17 29.05	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55	Limit dBm -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55	Peak Peak Peak
Channel: 128 Mark 1 2 3 4 5	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75	Antenna dB 27.51 26.01 36.15 39.05 42.10	dB 6.57 8.35 11.67 14.46 9.98	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55	Peak Peak Peak Peak Peak
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33	dB 6.57 8.35 11.67 14.46 9.98 14.55	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 eation: Vert	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 ical	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51	Peak Peak Peak Peak Peak Peak
Channel: 128 Mark 1 2 3 4 5 6	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 ration: Vert	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51	Peak Peak Peak Peak Peak
Mark 1 2 3 4 5 6 2 hannel: 128 Mark	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 cation: Vert Level dBm	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit	Peak Peak Peak Peak Peak Peak
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128 Mark 1	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz 41.46	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm -62.96	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB 21.67	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB 6.57	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB 30.88	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 tation: Vert Level dBm -65.60	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit -52.60	Peak Peak Peak Peak Peak Remark
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128 Mark 1 2	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB 21.67 26.58	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB 30.88	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 cation: Vert Level dBm	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit	Peak Peak Peak Peak Peak Peak
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128 Mark 1	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz 41.46	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm -62.96	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB 21.67	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB 6.57	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB 30.88 30.78	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 ration: Vert Level dBm -65.60	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit -52.60	Peak Peak Peak Peak Peak Remark
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128 Mark 1 2	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz 41.46 486.03	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm -62.96 -78.57	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB 21.67 26.58	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB 6.57 8.59	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB 30.88 30.78 29.05	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 tation: Vert Level dBm -65.60 -74.18	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit -52.60 -61.18	Peak Peak Peak Peak Peak Remark
Channel: 128 Mark 1 2 3 4 5 6 Channel: 128 Mark 1 2 3	Frequency MHz 41.46 411.99 1648.51 2629.46 3579.08 8240.03 Frequency MHz 41.46 486.03 1648.51	Reading dBm -70.04 -76.83 -55.37 -54.17 -71.75 -72.82 Reading dBm -62.96 -78.57 -59.93	Antenna dB 27.51 26.01 36.15 39.05 42.10 47.33 Antenna dB 21.67 26.58 36.11	dB 6.57 8.35 11.67 14.46 9.98 14.55 Cable dB 6.57 8.59 11.67	Preamp dB 30.88 30.17 29.05 26.66 36.88 33.57 Polariz Preamp dB 30.88 30.78 29.05 26.75	Level dBm -66.84 -72.64 -36.60 -27.32 -56.55 -44.51 tation: Vert Level dBm -65.60 -74.18 -41.20	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -53.84 -59.64 -23.60 -14.32 -43.55 -31.51 Over limit -52.60 -61.18 -28.20	Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak

Remark:

1.

The emission behaviour belongs to narrowband spurious emission. The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

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Channel: 810					Polarization: Horizontal				
Mark	Enequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
ridi K	Frequency MHz	dBm	dB	dB	dB	dBm	dBm	limit	Reliark
1	40.03	-79.08	28.56	6.56	30.86	-74.82	-13.00	-61.82	Peak
2				9.00					
	617.32	-78.76	28.59			-72.39	-13.00	-59.39	Peak
3	1372.18	-69.64	37.10	12.58		-49.14	-13.00	-36.14	Peak
4	2294.58	-69.25	40.41	12.86		-45.33	-13.00	-32.33	Peak
5	3579.08	-73.34	42.10	9.98		-58.14	-13.00	-45.14	Peak
6	8744.84	-74.71	48.44	15.46	34.79	-45.60	-13.00	-32.60	Peak
Channel: 810					Polarization: Vertical				
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
THUI IS	MHz	dBm	dB	dB	dB	dBm	dBm	limit	ACTION IS
4	44.95	-64.45		6.60					Bank
1			21.15		30,92		-13.00	-54.62	Peak
2	400.56	-77.39	26.03	8.32		-73.15	-13.00	-60.15	Peak
3	1379.74	-68.51		12.54		-47.46	-13.00		Peak
4	2717.57	-72.06	40.06	14.32		-43.73	-13.00		Peak
5	3820.45	-64.20	41.97	9.86	36.99	-49.36	-13.00	-36.36	Peak
6	7608.30	-74.98	48.26	14.68	33.19	-45.23	-13.00	-32.23	Peak
Channel: 661					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
PIGE N			dB	dB	dB	dBm		limit	NCIII N
	MHZ	dBm					dBm		D
1	41.46	-67.03	27.51	6.57		-63.86	-13.00		Peak
2	374.67	-76.01	25.32	8.22	30.13		-13.00	-59,60	Peak
3	1418.16	-68.22	37.04	12.31	28.88	-47.75	-13.00	-34.75	Peak
4	2505.38	-70.23	39.25	13.91	26.36	-43.43	-13.00	-30.43	Peak
5	3759.98	-51.74	42.23	9.82	37.12		-13.00	-23.81	Peak
6	7981.27	-75.14	48.11	14.35	33.31	-45.99	-13.00	-32.99	Peak
Channel: 661		Polarization: Vertical							
Mark	Frequency	Reading	Antenna	Cable			Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	41.46	-65.64	21.67	6.57	30.91	-68.31	-13.00	-55.31	Peak
2	669.33	-78.72	28.44	9.15	29.76	-70.89	-13.00	-57.89	Peak
3	1372.18	-68.91	37.64	12.58	28.94	-47.63	-13.00	-34.63	Peak
4	2600.73	-71.88	39.16	14.50		-43.88	-13.00		Peak
5	3759,98	-60.24	42.14	9.82		-45.40	-13.00		Peak
6	7697.08	-75.89	48.40	14.73	33.15	-45.91	-13.00	-32.91	Peak
Channel: 512						zation: Hori			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	41.02	-67.29	27.83	6.57		-63.80		-50.80	Peak
2	462.68			8.52		-73.35		-60.35	Peak
3		-68.84		12.86		-47.96	-13.00		
4			40.22			-43.77		-30.77	
5				9.79		-39.05			
6			42.29 47.95	9.79		-39.05		-26.05 -33.09	Peak Peak
Channel: 512				2012/02/02/02/02/02		zation: Vert	STORE & Academy	an ann an thailte ann an thailte an thailte an thailte an thailte an thailte an thail an thail an thail an thai	
Mark		Reading	Antenna			Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	45.43	-65.05	21.08	6.60	30.88	-68.25	-13.00	-55.25	Peak
2		-76.86		8.22		-73.57			Peak
3		-69.29	37.44	12.82		-48.00	-13.00		Peak
4		-72.31	39.47	14.44		-43.49	-13.00		
5		-62.94	42.31	9.79		-47.89	-13.00		Peak
6		-73.91	42.51	14.38	34.01		-13.00		Peak

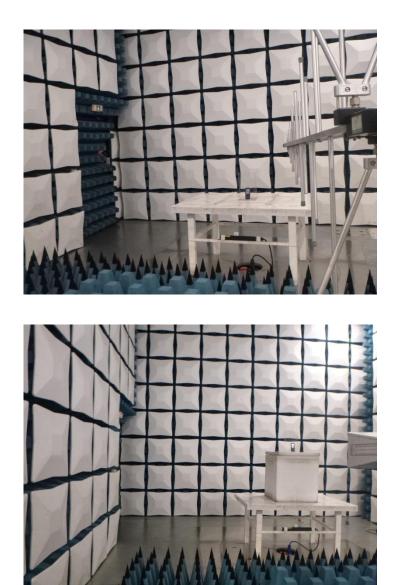
Remark:

1. The emission behaviour belongs to narrowband spurious emission.

2. The emission levels of not record in the report are very lower than the limit and not show in test report

6. TEST SETUP PHOTOS OF THE EUT

Radiated emission:



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

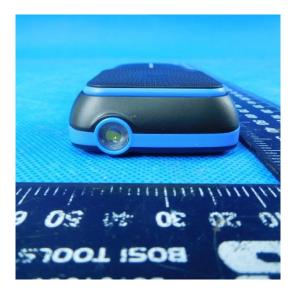
External photos of the EUT

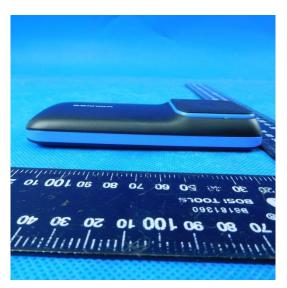






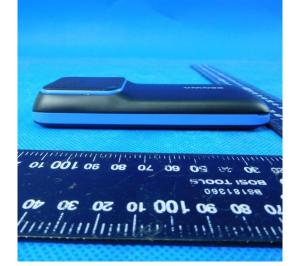












Internal photos of the EUT



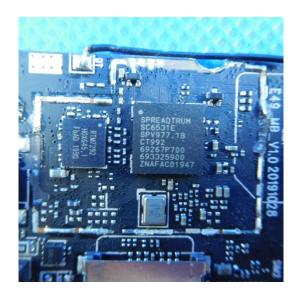




Shenzhen Huatongwei International Inspection Co., Ltd.







Shenzhen Huatongwei International Inspection Co., Ltd.



8. APPENDIX REPORT