	TEST REPC	RT	
FCC ID	2BLV5-22X02		
Test Report No:	TCT240919E023		Q
Date of issue:	Oct. 23, 2024		<i>C</i> 1:
Testing laboratory: :	SHENZHEN TONGCE TES	TING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Fa Fuhai Subdistrict, Bao'an Di 518103, People's Republic	strict, Shenzhen, Gua	
Applicant's name: :	LOCOSYS Technology Inc.		K.
Address:	20F13, No.79, Sec. 1, Xint 22101, Taiwan	ai 5th Rd., Xizhi Dist.,	New Taipei City
Manufacturer's name :	LOCOSYS Technology Inc.	$\langle \mathcal{O} \rangle$	(\mathbf{C})
Address:	20F13, No.79, Sec. 1, Xint 22101, Taiwan	ai 5th Rd., Xizhi Dist.,	New Taipei City
Standard(s) :	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part24		
Product Name:	RTK Base Station		
Trade Mark:	LOCOSYS	$\langle \mathcal{O} \rangle$	
Model/Type reference :	GB-104B, GB-10WB, GB-30	WB, GB-34WB	
Rating(s):	Rechargeable Li-ion Battery	DC 3.7V	C
Date of receipt of test item	Sep. 19, 2024		J.
Date (s) of performance of test	Sep. 19, 2024 ~ Oct. 23, 20	24	$\langle \mathcal{C} \rangle$
Tested by (+signature) :	Rleo LIU	Philo Waxong	CETR
Check by (+signature) :	Beryl ZHAO	Bay	
Approved by (+signature):	Tomsin	Tomsies	BAT
TONGCE TESTING LAB. TH	oduced except in full, withoun nis document may be altered ly, and shall be noted in the apply to the tested sample.	or revised by SHEN	ZHEN TONGCE

			ole of Co	memo			
4	General Produ) Intermetic					
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TCT通测检测 1. General Product Information

1.1. EUT description

Product Name:	RTK Base Station	le la
Model/Type reference:	GB-104B	
Sample Number	TCT240919E022-0101	
Tx Frequency:	GPRS 850: 824.2MHz ~ 848.8MHz GPRS 1900: 1850.2MHz ~ 1909.8MHz	9
Rx Frequency:	GPRS 850: 869.2MHz ~ 893.8MHz GPRS 1900: 1930.2MHz ~ 1989.8MHz	
Maximum Output Power to Antenna:	GPRS850: 32.62dBm GPRS1900: 29.96dBm	2
99% Occupied Bandwidth:	GPRS850 Class 8: 239KGXW GPRS1900 Class 8: 237KGXW	<u>(</u>)
Type of Modulation:	GPRS: GMSK	
Antenna Type:	PIFA Antenna	
Antenna Gain:	GPRS 850: -1.89dBi GPRS 1900:0.23dBi	No.
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

Tested with		del No.	Мос		No.	1
	No.	3-104B	GB		1	2
	′B	3-30WB, GB-34W	GB-10WB, GB-	(er models	Other
entical in circuit and PC ent the remaining mod						
					yout, only and	143

Report No.: TCT240919E023

1.3. Operation Frequency

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
	(\underline{O})	(\mathcal{A})	<u>(</u> C)
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
) <u></u>	
250	848.60	809	1909.60
251	848.80	810	1909.80







2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§22.913; §2.1046 §24.232; §27.50(d)	PASS
Peak-to-Average Ratio	§2.1046; §24.232(d) §22.913; §27.50(d)	PASS
Effective Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Occupied Bandwidth	§2.1049	PASS
Band Edge	§2.1051 §22.917(a) §24.238(a) §27.53(g)	PASS
Conducted Spurious Emission	§2.1051; §22.917 §24.238; §27.53(h)	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a) §24.238; §27.53(g)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355 §24.235; §27.54	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	

Remark: This product has a built-in rechargeable battery, so in an independent test, the EUT battery was fully-charged.

Keep the EUT in communication with CMU200 and select channel with modulation All modes and data rates and positions were investigated. Test modes are chosen to be reported as the worst case configuration below:

Test Mode

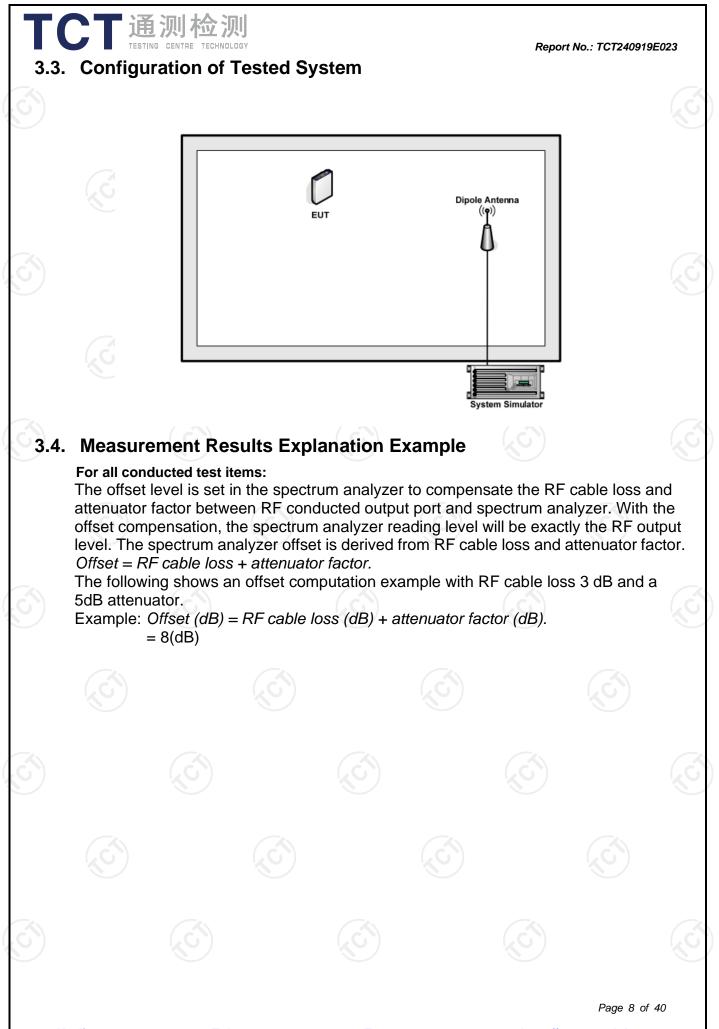
Band	Radiated TCs	Conducted TCs
GSM 850	GPRS class 12 Link	GPRS class 12 Link
PCS 1900	GPRS class 12 Link	GPRS class 12 Link

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarization. The emissions worst-case (Z axis)are shown in Test Results of the following pages.

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/
			figuration to maximize to turer's requirements an	
				Page 7 of



4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

 FCC - Registration No.: 645098
 SHENZHEN TONGCE TESTING LAB Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A
 SHENZHEN TONGCE TESTING LAB
 CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU	
1	Conducted Emission	± 3.10 dB	
2	RF power, conducted	± 0.12 dB	
3	Spurious emissions, conducted	± 0.11 dB	
4	All emissions, radiated(<1 GHz)	± 4.56 dB	
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB	
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB	No.
7	Temperature	± 0.1°C	
8	Humidity	± 1.0%	

Test Results a	nd Measurement Data
1. Conducted Outp	ut Power Measurement
Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b) FCC part 27.50(d);
Test Method:	FCC KDB 971168 D01 v03r01
Operation mode:	Refer to item 3.1
Limits:	GSM 850: 7W PCS 1900: 2W
Test Setup:	System Simulator EUT
Test Procedure:	 The transmitter output port was connected to the system simulator. Set EUT at maximum power through system simulator. Select lowest, middle, and highest channels for each band and different modulation. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.
Test Result:	PASS

5.1.2. Test Instruments

	Equipment	Manufacturer	Model	Serial Number	Calibration Due
	System simulator	R&S	CMU200	110188	Jun. 26, 2025
)	Combiner Box	Ascentest	AT890-RFB	1 6	/

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5.1.3. Test data

Conducted Power	Measureme	ent Results:						
Average Conducted Power (*Unit: dBm)								
Band		GSM850			PCS 1900			
Channel	128	190	251	512	661	810		
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8		
GPRS class8	32.62	32.53	32.41	29.87	29.96	29.81		
GPRS class10	31.52	31.44	31.34	2784	27.76	27.62		
GPRS class11	29.37	29.36	29.24	25.76	25.63	25.54		
GPRS class12	27.61	27.54	27.28	23.59	23.52	23.47		

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Ratio
FCC part 24.232(d); FCC part 22.913; FCC part 27.50(d);
ANSI C63.26:2013
Refer to item 3.1
The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
System Simulator EUT Spectrum Analyzer
 The testing follows FCC KDB 971168 D01v03r01 Section 5.7.1. The EUT was connected to spectrum analyzer and system simulator via a power divider. Set EUT to transmit at maximum output power. For GSM operating modes, signal gating is implemented on the spectrum analyzer by triggering from the system simulator. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	Ÿ

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5.2.3. Test Data

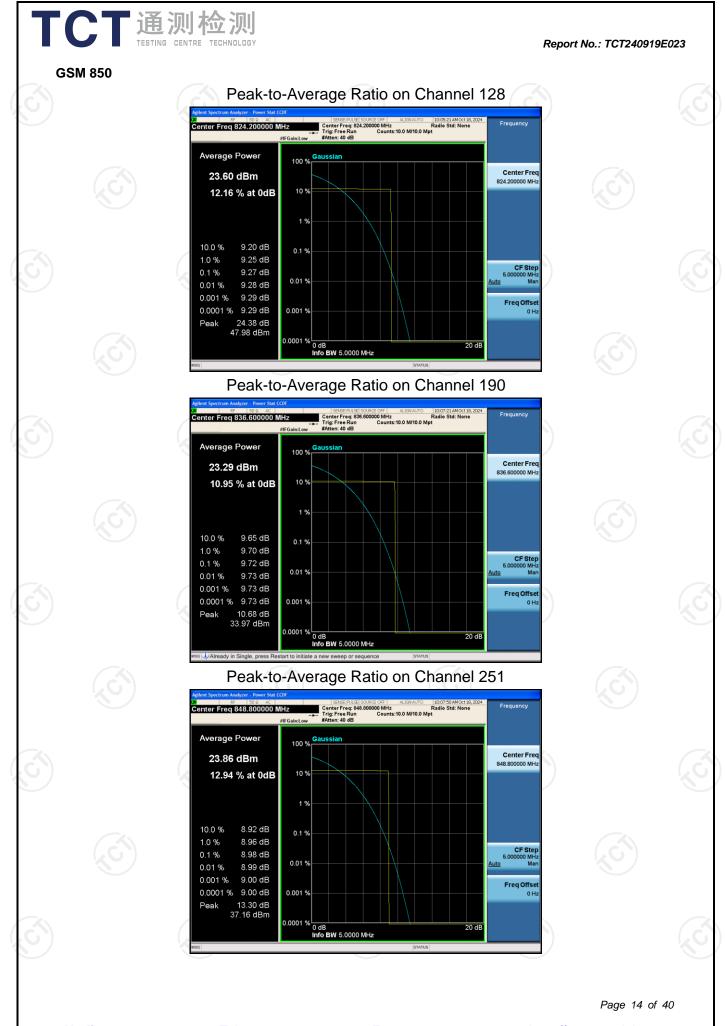
Cellular Band Mode **GSM850** Channel 128 190 251 Frequency 824.2 836.6 848.8 (MHz) Peak-to-Average 9.27 9.72 8.98 Ratio (dB)

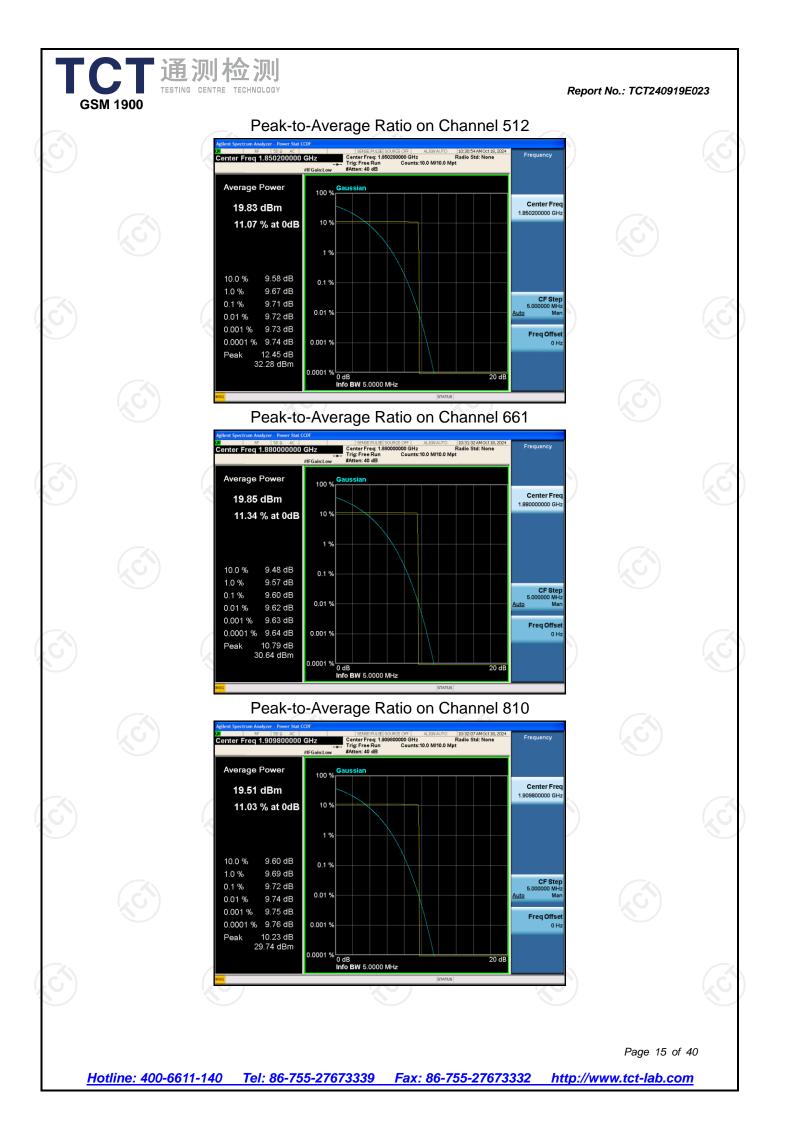
	Г	CS Band			
Mode GSM 1900					
Channel	512	661	810		
requency (MHz)	1850.2	1880	1909.8		
Peak-to- Average Ratio (dB)	9.71	9.60	9.72		

Test plots as follows:

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Report No.: TCT240919E023





5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement



Test Requirement:	FCC part 2.1049
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	N/A
Test Setup:	System Simulator EUT EUT
Test Procedure:	 The testing follows FCC KDB 971168 D01v03r01 Section 4.2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	1

5.3.3. Test data

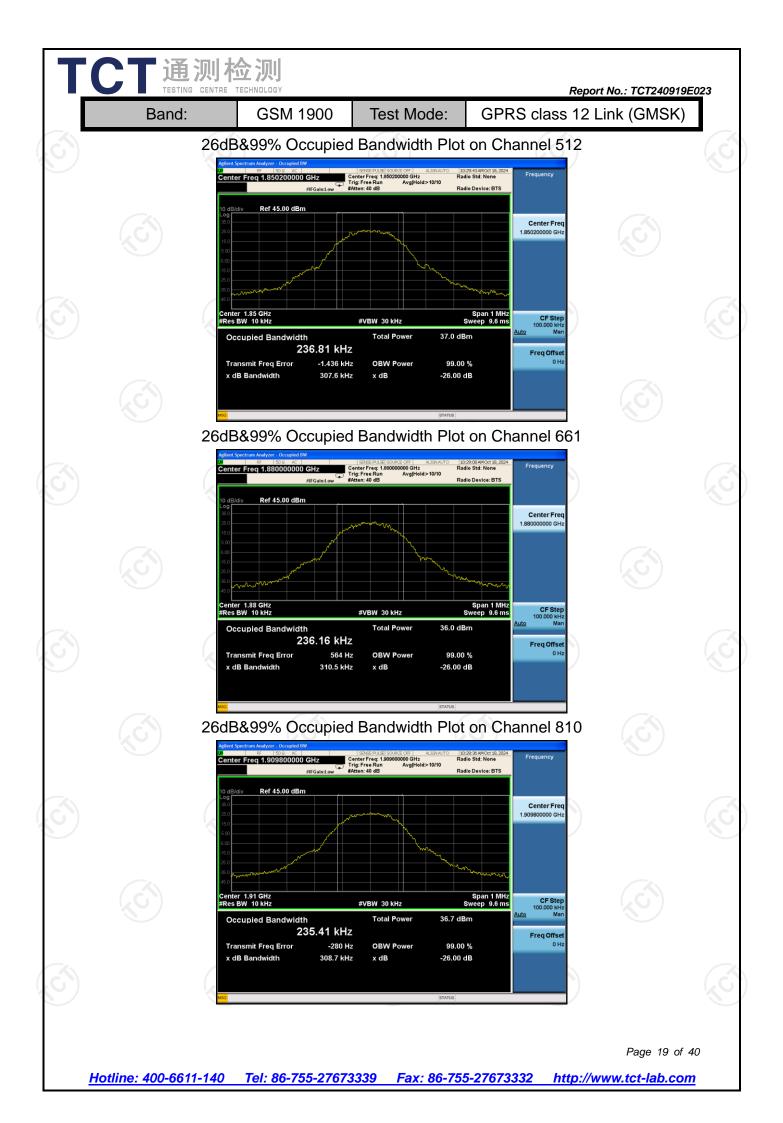
Cellular Band							
Mode		GSM850					
Channel	128	190	251				
Frequency (MHz)	824.2	836.6	848.8				
99% OBW (kHz)	236.97	238.69	232.23				
26dB BW (kHz)	310.20	308.50	305.40				

	Cell	ular Band					
Mode		GSM1900					
Channel	512	661	810				
Frequency (MHz)	1850.2	1880.0	1909.8				
99% OBW (kHz)	236.81	236.16	235.41	No.			
26dB BW (kHz)	307.60	310.50	308.70				

Test plots as follows:

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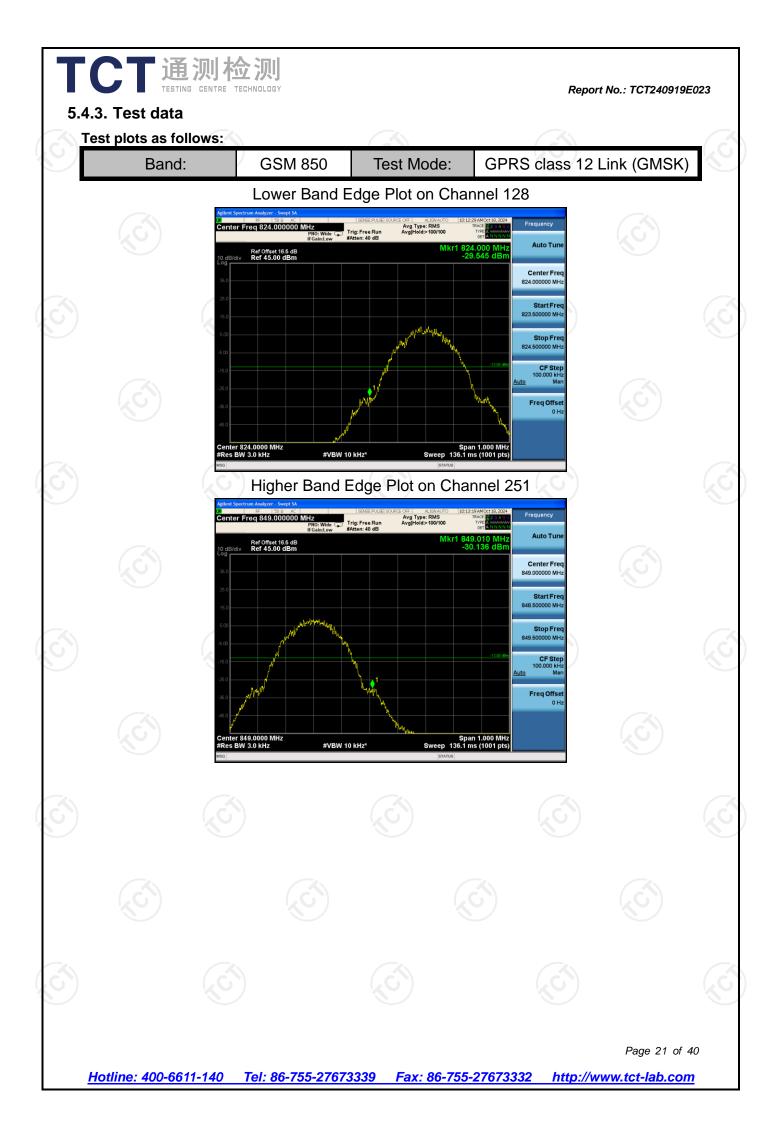


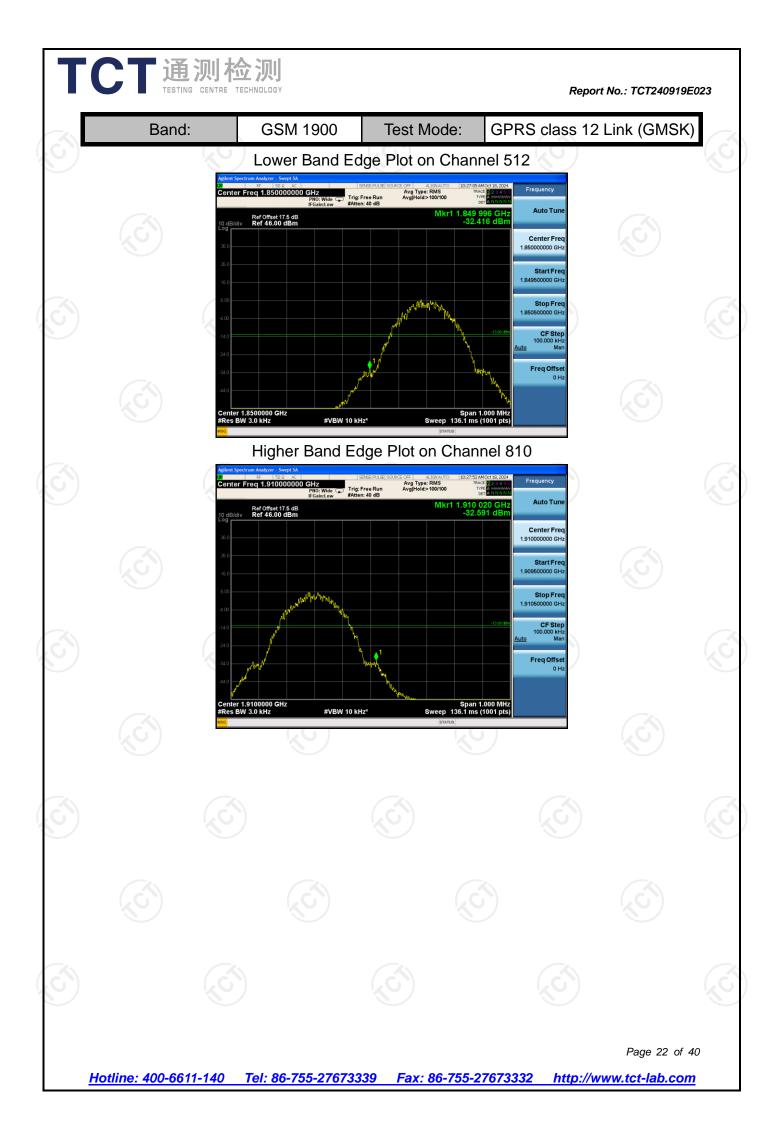
5.4. Band Edge and Conducted Spurious Emission Measurement

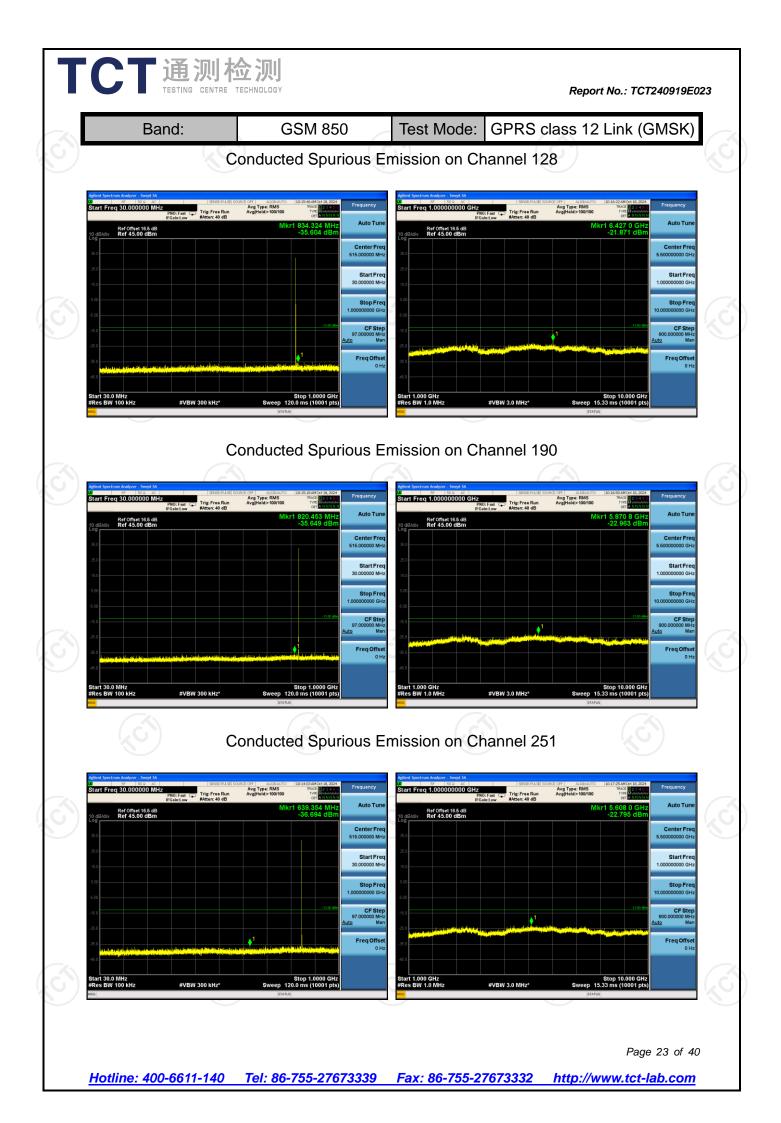
4.1. Test Specification	
Test Requirement:	FCC part22.917(a) and FCC part24.238(a) FCC part27.53(g)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test Setup:	System Simulator EUT EUT
Test Procedure:	 The testing follows FCC KDB 971168 D01v03r01 Section 6.0. The EUT was connected to the spectrum analyzer and system simulator via a power divider. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement. The band edges of low and high channels for the highest RF powers were measured. The conducted spurious emission for the whole frequency range was taken. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
Test Result:	PASS

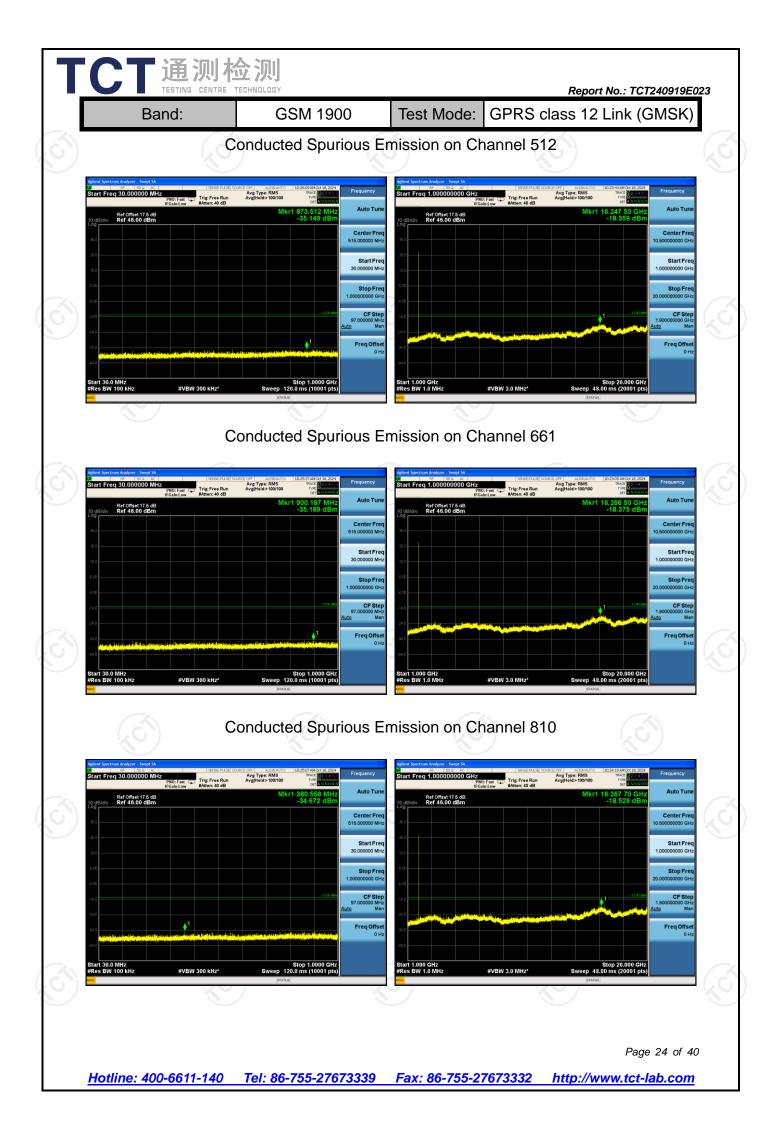
5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/







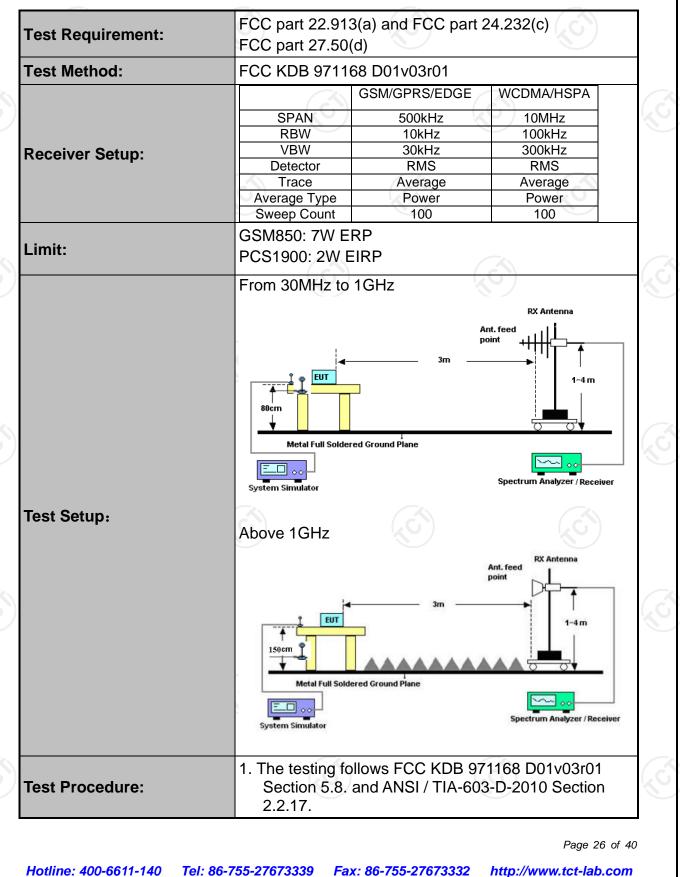


	GSM 1900(G	PRS) Conduct	ed Spurious	s Emissio	n for Below	1G
Channel	RBW (KHz)	Test result (dBm)	RBW (MHz)		alculate result (dBm)	Limit (-13dBm)
512	100	-35.15	1		-25.15	Pass
661	100	-35.19	1		-25.19	Pass
810	100	-34.67	1		-24.67	Pass
E	xchange rate of R	Compensate 10dB BW = 10*log10(Ref where Refere		th/RBW at m		10[dB]

5.5. Effective Radiated Power and Effective Isotropic Radiated Power

Measurement

5.5.1. Test Specification



Т	CT 通	· 加检测 MB CENTRE TECHNOLOGY			Penort	No - TCT240010E01	23
To)			chamber. Th frequency w and a spect	s placed on a no meters high in ne radiated emis ras measured a rum analyzer w 5 KDB 971168 E	on-conductiv a semi-anec ssion at the f t 3 m with a t ith RMS dete	hoic undamental est antenna	
(S)			 (LVL) measures sufficiently srandard radii the test anternangular increvent Replace the same location Connect the known output as LOSS. If a raise and low 	nd record spect rements at angu- nall to permit re- ation test site is na to obtain a r ment. transmitter under center of the a n as the center of	trum analyze ular increment solution of all s used, raise maximum reat er test with a intenna shou of the antenn gnal generate cord the path ation test site	r power level nts that are I peaks. If a and lower ading at each substitution Id be at the a under test. or with a loss (in dB) is used,	
5			reading (dBm 6. Determine th angular posit using the follo ERP (dBm) = 7. The maximu	e effective radia ion from the rea owing equation: LVL (dBm) + L m ERP is the m	ated output p adings in step : .OSS (dB) aximum valu	ower at each os 3) and 5)	
S			8. Calculating E ERP (dBm) = Antenna Ga	Output Power in (dBd) (dBd) = Anten	(dBm) - Loss		
	Test results:		PASS			(C)	
S							
Ś							
						Page 27 of 40	
	Hotline: 400-66	11-140 Tel: 86	-755-27673339 Fa	<u>x: 86-755-276733</u>	32 http://ww	/w.tct-lab.com	

5.5.2. Test Instruments

		hission Test Site		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 31, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L		Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	1	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	1	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	

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	5	.5	.3.	Т	est	Data
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TCT 通测检测 TESTING CENTRE TECHNOLOGY

		Test Resul	t of ERP		
	GPR	S 850 (1-solt) Ra	adiated Power ERI	C	
	Hor	izontal Polarizati	on (Antenna Pol.)		
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	H	8.55	21.66	28.06	0.64
836.6		8.59	21.54	27.98	0.63
848.8	Н	9.11	21.46	28.42	0.70
	Ve	rtical Polarizatio	n (Antenna Pol.)		
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	V	8.66	21.66	28.17	0.66
836.6	V	8.78	21.54	28.17	0.66
848.8	V	9.23	21.46	28.54	0.71
		· · · · ·	adiated Power EIR	Р	
	Hor	izontal Polarizati	on (Antenna Pol.)		
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	Н	6.61	21.66	26.12	0.41
1880.0	Н	6.89	21.54	26.28	0.43
1909.8	Н	7.03	21.46	26.34	0.43
	Ve	rtical Polarizatio	n (Antenna Pol.)		
Frequency (MHz)	(EUT Pol.)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	V	6.59	21.66	26.10	0.41
1880.0	V	6.63	21.54	26.02	0.40
1909.8	V	7.22	21.46	26.53	0.45



Report No.: TCT240919E023

5. Field Strength of S	Spurious Radiation Measuremer	nt
.1. Test Specification		
Test Requirement:	FCC part 22.917(a) and FCC part 2 FCC part 27.53(g)	24.238(a)
Test Method:	FCC KDB 971168 D01v03r01	
Operation mode:	Refer to item 3.1	
Limit:	-13dBm	
Test setup:	Above 1GHz	RX Antenna nint spectrum Analyzer / Receiver RX Antenna pint RX Antenna pint
Test Procedure:	 The testing follows FCC KDB 97 Section 6 and ANSI / TIA-603-D-2 The EUT was placed on a rotatal meters above the ground. The EUT was set 3 meters from a antenna, which was mounted on The table was rotated 360 degre position of the highest spurious e The height of the receiving anten one meter and four meters to sea spurious emission for both horizo polarizations. Make the measurement with the 	2010 Section 2.2.12. ble wooden table 0.8 the receiving the antenna tower. ees to determine the emission. ana is varied between arch for the maximum ontal and vertical

	max 7. A ho and 8. Tun sam emis 9. Taki 10. Re 11. EIF	was driven l e the output e emission l ssion. ng the recor peat step 7 RP (dBm) =	bus emission was substitu by a signal <u>c</u> power of sig evel with EL d of output to step 8 for	n. uted in place generator. gnal genera JT maximun power at an another po	e of the EUT tor to the n spurious tenna port. larization.	(C
Test results:	12. ER 13. Th aga 14. Th the t = P(= [30	ainst the limi	nental frequ t line in the o derived fro ower P(Wat 0log(P)] (dB	operating fre m 43 + 10lo ts)	l be excluded equency band. g(P) dB below] (dB)	
Remark:	All mo	dulations ha ation show i			/ the worst	
					Page 31 of 40)

5.6.2. Test Instruments

		hission Test Site	= (900)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 31, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L		Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	1	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	18	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	12

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Frequency			@3m (dBµ∖	//m)	Limit@3m	
		g+ Cable loss+A	Antenna factor-A	mp factor		
2. The emis requirem	ssion levels are . nent	20 dB below the	ə limit value, whi	ich are not rep	oorted. It is deem	ed to comply wi

Band				Test c	hannel:	Lowest
Test mode:		GSM 850		Tempe	erature:	25°C
					Humidity:	56%
Note: Spuriou	us emissions w			found more t	han 20dB be	elow limit line.
_		Spurious	Emission			
Frequency		Level	Correction	Spurious	Limit	Result
(MHz)	Polarization	(dBm)	Factor	emissions	(dBm)	
1648.4	Vertical	-39.53	(dB) -6.47	(dBm) -46.00		
2472.6	V	-39.55	-0.47	-40.00		
3296.8	V	-60.91	-0.48	-61.39		(
1648.4	Horizontal	-39.79	-6.29	-46.08	-13.00	PASS
2472.6	H	-47.02	-2.99	-50.01		
3296.8	H	-58.68	-0.10	-58.78		
Band	••	00.00	0.10		hannel:	Middle
	GSM 850			Temperature:		25°C
Test mode:					Humidity:	56%
Note: Spuriou	us emissions w	ithin 30-10	00MHz were			low limit line.
•		Spurious	Emission			
Frequency		Level	Correction	Spurious	Limit	Result
(MHz)	Polarization	(dBm)	Factor	emissions	(dBm)	Result
		(ubiii)	(dB)	(dBm)		
1673.2	Vertical	-40.88	-6.46	-47.34		
2509.8	V	-52.21	-2.75	-54.96		$\langle \mathcal{C} \rangle$
3346.4	V	-60.53	-0.47	-61.00	-13.00	PASS
1673.2	Horizontal	-39.29	-6.32	-45.61	10.00	17,00
2509.8	Н	-48.35	-2.85	-51.20		
3346.4	Н	-61.12	-0.10	-61.22		
Band		0011 050			hannel:	Highest
Test mode:		GSM 850			erature:	25°C
Notes Souriou		ithin 20.10			Humidity:	56%
Note. Spunot	us emissions w		Emission			
Frequency		Spurious	Correction	Spurious	Limit	
(MHz)	Polarization	Level	Factor	emissions	(dBm)	Result
(101112)	1 Olarization	(dBm)	(dB)	(dBm)	(abiii)	
1697.6	Vertical	-42.44	-6.44	-48.88		(
	Voltidal	-52.36	-2.58	-54.94		
2546.4	V	-60.01	-0.47	-60.48		
<u>2546.4</u> 3395.2	•	-37.62	-6.35	-43.97	-13.00	PASS
3395.2	Horizontai					
	Horizontal H	-47.38	-2.65	-50.03		

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Test mode: lote: Spuriou		PCS 1900		Tempe	erature:	25°C
Note: Spuriou					Humidity:	56%
	is emissions w			found more th	nan 20dB be	olow limit line.
		Spurious	Emission	-		
Frequency		Level	Correction	Spurious	Limit	Result
(MHz)	Polarization	(dBm)	Factor	emissions	(dBm)	
0700.4		· · /	(dB)	(dBm)		
3700.4	Vertical	-47.43	0.91	-46.52		
5550.6	V	-55.91	6.87	-49.04		
					-13.00 PA	PASS
	<u> </u>	-60.35	10.01		-	
Band						Middle
Test mode:		PCS 1900		-		25°C
						56%
Note: Spuriou	is emissions w			found more th	han 20dB be	elow limit line.
_		Spurious	1			
		Level				Result
(MHz)	Polarization				(dBm)	
		· · /				
	•					(G)
	•				-13 00	PASS
					10.00	17.00
	H	-62.61	10.03			
Band						Highest
Test mode [.]		PCS 1900				25°C
						56%
lote: Spuriou	is emissions w			found more th	han 20dB be	low limit line.
_		Spurious	1			
		Level				Result
(MHz)	Polarization				(dBm)	1 toodit
		· · /				
	•				-13.00	PASS
3819.6	Horizontal	-44.76	3.07	-41.69	.0.00	
5720 1	H	-50.49	7.89	-42.60		
5729.4 7639.2		-62.44	10.33	-52.11		
	Frequency (MHz) 3760.0 5640.0 7520.0 3760.0 5640.0 7520.0 Band Test mode:	3700.4 Horizontal 5550.6 H 7400.8 H Band Image: Constraint of the second se	3700.4 Horizontal -44.39 3700.4 Horizontal -44.39 5550.6 H -50.28 7400.8 H -60.35 Band PCS 1900 Test mode: Note: Spurious emissions within 30-10 Frequency (MHz) Polarization Level (dBm) 3760.0 Vertical -47.57 5640.0 V -56.36 3760.0 Vertical -44.13 5640.0 V -57.44 7520.0 V -56.36 3760.0 Horizontal -44.13 5640.0 H -57.10 7520.0 H -62.61 Band -62.61 -62.61 Band -57.10 -57.10 7520.0 H -62.61 Band -62.61 -62.61 Band -57.10 -57.10 7520.0 H -62.61 Band -57.10 -62.61 Band	3700.4 Horizontal -44.39 1.89 5550.6 H -50.28 7.38 7400.8 H -60.35 10.01 Band PCS 1900 Test mode: Note: Spurious emissions within 30-1000MHz were Spurious Spurious Emission Frequency (MHz) Polarization Level (dBm) Correction Factor (dB) 3760.0 Vertical -47.57 1.32 5640.0 V -57.44 7.21 7520.0 V -56.36 10.43 3760.0 Horizontal -44.13 2.48 5640.0 H -57.10 7.63 37520.0 H -62.61 10.03 Band PCS 1900 Mete: Spurious emissions within 30-1000MHz were Frequency (MHz) Polarization Level (dBm) Correction Factor (dB) 3819.6 Vertical -46.08 1.72 5729.4 V -55.15 7.54	3700.4 Horizontal -44.39 1.89 -42.50 5550.6 H -50.28 7.38 -42.90 7400.8 H -60.35 10.01 -50.34 Band PCS 1900 Test cl Test mode: PCS 1900 Test cl Note: Spurious emissions within 30-1000MHz were found more the distribution (dBm) Spurious Emission Relative Frequency (MHz) Polarization Level (dBm) Correction Factor (dBm) Spurious emissions (dBm) 3760.0 Vertical -47.57 1.32 -46.25 5640.0 V -56.36 10.43 -45.93 3760.0 Vertical -47.57 1.32 -46.25 5640.0 V -56.36 10.43 -45.93 3760.0 Horizontal -44.13 2.48 -41.65 5640.0 H -57.10 7.63 -49.47 7520.0 H -62.61 10.03 -52.58 Band PCS 1900 Test cl Test cl	1000 1000 <th< td=""></th<>

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Equipment	Manufacturer	Model	Serial Number	Calibration Due
Universal Radio Communication Tester	R&S	CMU200	110188	Jun. 26, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	510101234	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	1	Jun. 26, 2025
Combiner Box	AT890-RFB	Ascentest		

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5.7.3. Test Data

Band:	GSM 850	Channel:	190
Limit (ppm):	2.5	Frequency:	836.6MHz
Cemperature (°C)	Deviation (p	pm)	Result
50	0.011		
40	0.013		
30	0.019		
20	0.015		
10	0.011		PASS
0	0.010		
-10	0.017		
-20	0.028		
-30	0.026		
G)	(.G)	(\mathcal{G})	

Band:	GSM 1900	Channel:	661
Limit (ppm):	Note	Frequency:	1880MHz
Temperature (°C)	Deviation (p	pm)	Result
50	0.013		
40	0.015		
30	0.019		
20	0.014		
10	0.016		PASS
0	0.011		
-10	0.010		
-20	0.027		
-30	0.028		

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

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Test Result of Voltage Variation

	Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result	R Co
	GSM 850 CH190	GSM	4.2	+0.013	2.5	PASS	
			3.7	+0.014			
			BEP	+0.011			
	GSM 1900 CH661	GSM	4.2	+0.016	(Note 3.)		
			3.7	+0.017			
			BEP	+0.015			

Note:

1. Normal Voltage = 3.7V.

2. Battery End Point (BEP) = 3.2V.

3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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