

TESTING CENTRE TEC	TEST REPOR	T		
FCC ID:	2A9LJ-ME65			
Test Report No::	TCT240513E039	(C)	(C)	
Date of issue::	Aug. 20, 2024			
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB		
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China			
Applicant's name::	Meferi Technologies Co., Ltd.			
Address::	4F, A6, Tianfu Software Park, No High-tech Zone, 610041, Cheng	,	•	
Manufacturer's name:	Meferi Technologies Co., Ltd.			
Address:	4F, A6, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610041, Chengdu, Sichuan, 610041 China			
Standard(s):	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22			
Test item description:	MOBILE COMPUTER			
Trade Mark:	MEFERI			
Model/Type reference:	ME65, ME65P, ME65T, ME65H,	ME65L, ME65S, ME	68	
Rating(s)::	Refer to EUT description of page	e 3		
Date of receipt of test item	May 13, 2024			
Date (s) of performance of test:	May 13, 2024 ~ Aug. 20, 2024		١.	
Tested by (+signature) :	Rleo LIU	Preo Un TONGO	Eir	
Check by (+signature):	Beryl ZHAO	Boyl 16 TC	TING	
Approved by (+signature):	Tomsin	Tomsin 45	84	

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1. General Product Information

1.1. EUT description

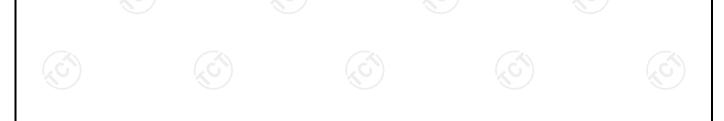
Test item description:	MOBILE COMPUTER
Model/Type reference:	ME65
Sample Number:	TCT240513E003-0102
Tx Frequency:	CDMA BC0: 824.70MHz ~ 848.31MHz
Rx Frequency:	CDMA BC0: 869.70MHz ~ 893.31MHz
Maximum Output Power to Antenna:	CDMA BC0: 23.41dBm
99% Occupied Bandwidth:	CDMA BC0: 1M28F9W
Type of Modulation:	1xRTT: QPSK 1xEV-DO: QPSK/8PSK
Antenna Type:	Internal Antenna
Antenna Gain:	CDMA BC0: -2.17dBi
Rating(s)::	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A/DC 9.0V, 2.0A/DC 12.0V, 1.5A, 18.0W Rechargeable Li-ion Battery DC 3.85V

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

No.	Model No.	Tested with		
1	ME65			
Other models	ME65P, ME65T, ME65H, ME65L, ME65S, ME68			
Note: MECE is total model, other models are derivative models. The models are identical in circuit and DCD				

Note: ME65 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of ME65 can represent the remaining models.



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1.3. Operation Frequency

CDMA BC0					
Channel: Frequency (MHz)					
1013	824.70				
1014	824.73				
383	836.49				
384	836.52				
385	836.55				
<u></u>					
776	848.28				
777	848.31				

		303	030.49		
		384	836.52		
		385	836.55		
	(8)	776	848.28		
		777	848.31		

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2. Test Result Summary

CFR 47 Section	Result
§22.913; §2.1046	PASS
§2.1046; §22.913	PASS
§2.1046; §22.913(a)	PASS
§2.1046; §22.913(a)	PASS
§2.1049	PASS
§2.1051 §22.917(a)	PASS
§2.1051; §22.917	PASS
§2.1053; §22.917(a)	PASS
§2.1055; §22.355	PASS
	§22.913; §2.1046 §2.1046; §22.913 §2.1046; §22.913(a) §2.1049 §2.1051 §22.917(a) §2.1051; §22.917 §2.1053; §22.917(a)

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.

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3. General Information

3.1. Test environment and mode

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

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				
CDMA BC0	1xRTT Link	1xRTT 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.





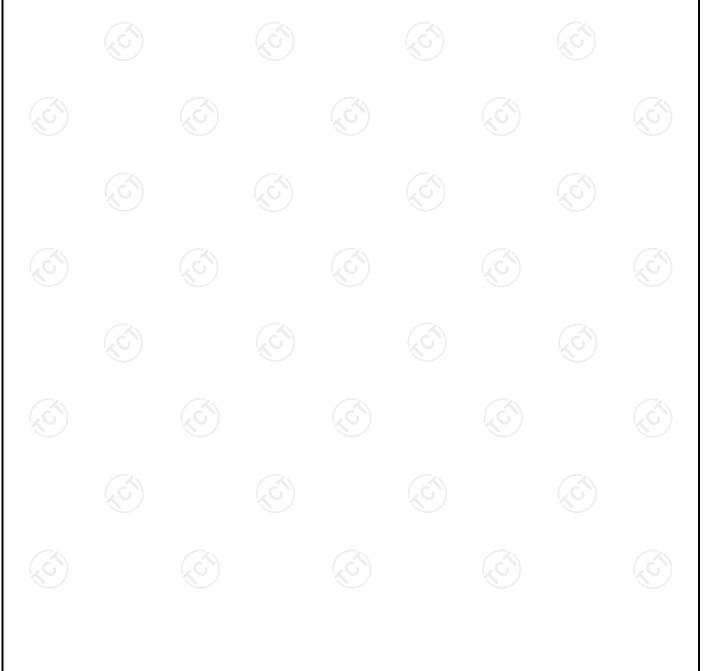
3.2. Description of Support Units

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
	1	1	(6) 1	

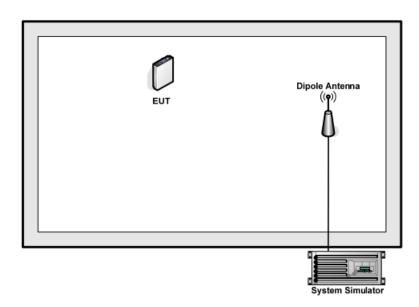
Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





3.3. Configuration of Tested System



3.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 3 dB and a 5dB attenuator.

Example: Offset (dB) = RF cable loss (dB) + attenuator factor (dB). = 8(dB)





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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
7	Temperature	± 0.1°C
8	Humidity	± 1.0%

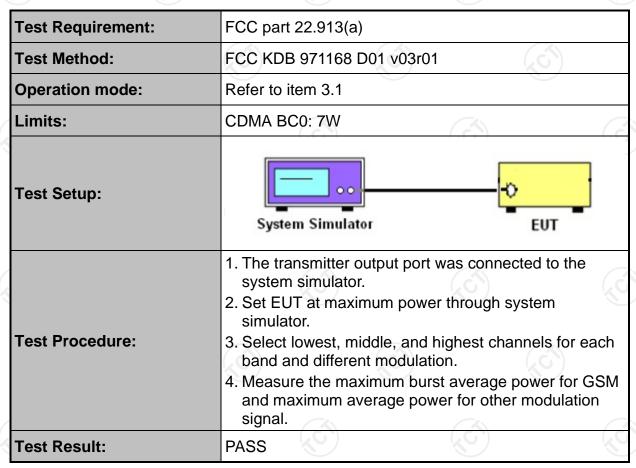
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5. Test Results and Measurement Data

5.1. Conducted Output Power Measurement

5.1.1. Test Specification



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 (0)	1 (3

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5.1.3. Test data

Conducted Power Measurement Results:

				-	
Average Cor	nducted Po	wer (*Unit	: dBm)		
Band		CDMA BC	0		
Channel	1013	384	777	_	
Frequency(MHz)	824.70	836.52	848.31		
1XRTT RC1 SO55	23.37	23.36	23.41		
1XRTT RC3 SO55	23.35	23.36	23.37		
1XEV-DO RTAP 153.6Kbps	23.34	23.31	23.32		
1XEV-DO RETAP 4096bITS	23.34	23.27	23.30		



5.2. Peak to Average Ratio

5.2.1. Test Specification

A) / A)	
Test Requirement:	FCC part 22.913
Test Method:	ANSI C63.26:2013
Operation mode:	Refer to item 3.1
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	System Simulator EUT Spectrum Analyzer
Test Procedure:	 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/EGPRS 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%.
Test Result:	PASS

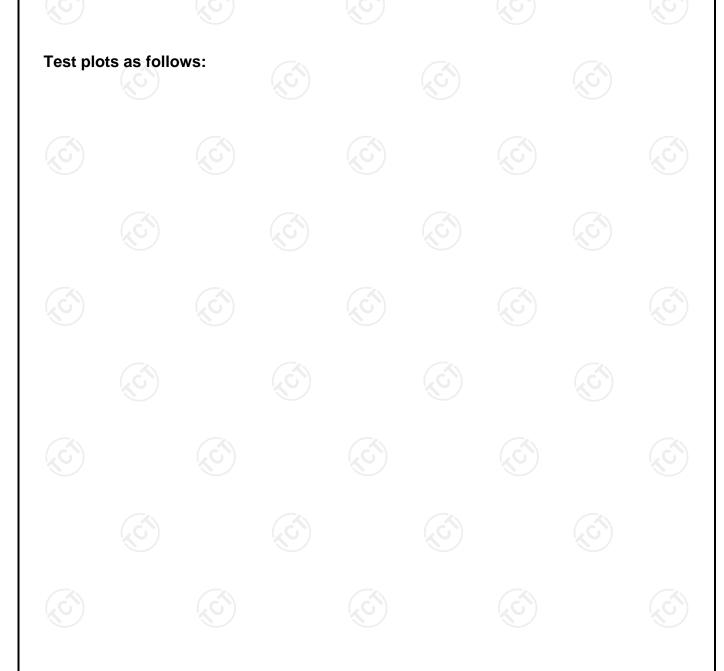
5.2.2. Test Instruments

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	1	/



5.2.3. Test Data

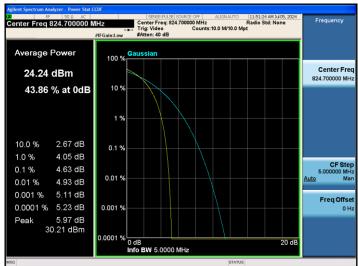
	Cellular Band						
Mode		CDMA BC0					
Channel	1013	384	777				
Frequency (MHz)	824.70	836.52	848.31				
Peak-to- Average Ratio (dB)	4.63	4.95	4.75				





CDMA BC0

Peak-to-Average Ratio on Channel 1013



Peak-to-Average Ratio on Channel 384



Peak-to-Average Ratio on Channel 777





5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

A) / A)	
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 Spectrum Analyzer
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 (3)	1



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5.3.3. T	est	data
----------	-----	------

Cellular Band							
Mode		CDMA BC0					
Channel	1013	1013 384 777					
Frequency (MHz)	824.70	836.52	848.31				
99% OBW (kHz)	1272.1	1275.2	1276.7				
26dB BW (kHz)	1429	1426	1417				

Test	plots as fo	ollows:			



Band: CDMA BC0 Test Mode: 1xRTT Link

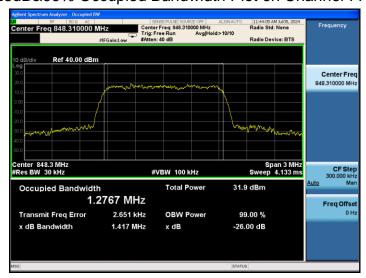
26dB&99% Occupied Bandwidth Plot on Channel 1013



26dB&99% Occupied Bandwidth Plot on Channel 384



26dB&99% Occupied Bandwidth Plot on Channel 777





5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

Test Requirement:	FCC part22.917(a)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test Setup:	System Simulator Power Divider EUT Spectrum Analyzer
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	1	1



5.4.3. Test data

Test plots as follows:

Band: CDMA BC0 Test Mode: 1xRTT Link

Lower Band Edge Plot on Channel 1013



Higher Band Edge Plot on Channel 777





Band: CDMA BC0 Test Mode: 1xRTT Link

Conducted Spurious Emission on Channel 1013



Conducted Spurious Emission on Channel 384



Conducted Spurious Emission on Channel 777





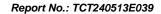
5.5. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

5.5.1. Test Specification

Test Requirement:	FCC part 22.91	3(a)				
Test Method:	FCC KDB 9711	68 D01v03r01	(,c ⁽¹⁾)			
		GSM/GPRS/EDGE	WCDMA/HSPA			
	SPAN	500kHz	10MHz			
	RBW	10kHz	100kHz			
Receiver Setup:	VBW	30kHz	300kHz			
Receiver Setup.	Detector	RMS	RMS			
	Trace	Average	Average			
	Average Type	Power	Power			
	Sweep Count	100	100			
Limit:	CDMA BC0: 7W	/ ERP				
Test Setup:	Metal Full Solder System Simulator	Metal Full Soldered Ground Plane Spectrum Analyzer (Receiver				
	Above 1GHz IS0cm Metal Full Sold System Simulator	3m —	Ant. feed point 1~4 m	eer		
Test Procedure:	Section 5.8. 2.2.17. 2. The EUT was	ollows FCC KDB 97 and ANSI / TIA-603 s placed on a non-c meters high in a se	3-D-2010 Section onductive rotating	C		

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	chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01v03.				
	3. Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment.				
	 Replace the transmitter under test with a substitution antenna. The center of the antenna should be at the same location as the center of the antenna under test. Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading. LOSS = Generator Output Power (dBm) – Analyzer 				
	reading (dBm) 6. Determine the effective radiated output power at each angular position from the readings in steps 3) and 5) using the following equation: ERP (dBm) = LVL (dBm) + LOSS (dB) 7. The maximum ERP is the maximum value determined in the preceding step. 8. Calculating ERP:				
	ERP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBd) Antenna Gain (dBd) = Antenna Gain (dBi) - 2.15 EIRP = ERP + 2.15				
Test results:	PASS				





5.5.2. Test Instruments

	Radiated Emission Test Site (966)					
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	(3)	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-L		Jun. 26, 2025		
Antenna Mast	Keleto	RE-AM	/	/		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	(0)		



5.5.3. Test Data

Test Result of ERP

	CDMA BC0 Radiated Power ERP								
	Hoi	rizontal Polarizatio	on (Antenna Pol.)						
Frequency (MHz) (EUT Pol.) LVL (dBm) Correction Factor (dBm) (dBm) (W									
824.70	Н	20.60	0.11						
836.52 H		0.42	21.54	19.81	0.10				
848.31	HQ)	0.53	21.46	19.84	0.10				
	Ve	ertical Polarization	(Antenna Pol.)						
Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·								
824.70	V	0.84	21.66	20.35	0.11				
836.52	V	0.98	21.54	20.37	0.11				
848.31	V	0.77	21.46	20.08	0.10				

Note: * ERP = LVL (dBm) + Correction Factor (dB) - 2.15 Correction Factor= S.G. Power - Cable loss + Antenna Gain- SPA. Reading





5.6. Field Strength of Spurious Radiation Measurement

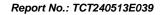
5.6.1. Test Specification

Test Requirement:	FCC part 22.917(a)
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	-13dBm
Test setup:	For 30MHz~1GHz RX Antenna Ant. feed point Spectrum Analyzer / Receiver Above 1GHz Ant. feed point Ant. feed point Ant. feed point Spectrum Analyzer / Receiver Ant. feed point Spectrum Analyzer / Receiver
Test Procedure:	 The testing follows FCC KDB 971168 D01v03r01 Section 6 and ANSI / TIA-603-D-2010 Section 2.2.12. The EUT was placed on a rotatable wooden table 0.8 meters above the ground. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower. The table was rotated 360 degrees to determine the position of the highest spurious emission. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of



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		maximum spurious emission. 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission. 9. Taking the record of output power at antenna port. 10. Repeat step 7 to step 8 for another polarization. 11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain 12. ERP (dBm) = EIRP - 2.15 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 14. 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 res	sults:	PASS
Remark	:	All modulations have been tested, but only the worst modulation show in this test item.







5.6.2. Test Instruments

	Radiated Emission Test Site (966)					
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	(3)	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-L		Jun. 26, 2025		
Antenna Mast	Keleto	RE-AM	/	/		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	(0)		



5.6.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)		Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	(.6)		(6) (6
			0
		Ch	

Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



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Band			Test channel:	Lowest	
	00114	500	Temperature:	25°C	
Test mode:	CDMA	BC0	Relative Humidity:	56%	
Note:	Spurious emission below limit line.	ons within 30-100	00MHz were found	more than 20dB	
Frequency	Spurious	Emission	Limit (dBm)	Result	
(MHz)	Polarization	Level (dBm)	Limit (dbin)	Result	
1649.40	Vertical	-44.44			
2474.10	V	-42.08			
3298.80	V	-53.00	-13.00	PASS	
1649.40	Horizontal	-44.88	-13.00	PASS	
2474.10	Н	-40.20			
3298.80	Н	-52.77			
Band			Test channel:	Middle	
	CDMA	BC0	Temperature:	25°C	
Test mode:	CDIVIA	A BCU	Relative Humidity:	56%	
Note:	Spurious emission below limit line.	ons within 30-100	00MHz were found	more than 20dB	
Frequency	Spurious	Emission	Livesit (alDiss)	Danult	
(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1673.04	Vertical	-44.48			
2509.56	V	-47.08	(6)	(G)	
3346.08	V	-54.87	12.00	DACC	
1673.04	Horizontal	-44.05	-13.00	PASS	
2509.56	_, H	-41.22			
3346.08	(,G)H	-54.50	(c)	(, ć	
Band			Test channel:	Highest	
	CDMA	DC0	Temperature:	25°C	
Test mode:	CDMA	A BCU	Relative Humidity:	56%	
Note:	Spurious emission below limit line.	ons within 30-100	00MHz were found	more than 20dB	
Frequency	Spurious	Emission	Limit (dDm)	Result	
(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1696.62	Vertical	-42.41			
2544.93	V	-46.79			
3393.24	V	-55.00	12.00	DACC	
1696.62	Horizontal	-44.65	-13.00	PASS	
2544.93	Н	-42.80			
3393.24	Н	-54.23			



5.7. Frequency Stability Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part 2.1055; FCC Part 22.355
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	FCC Part 22.355: ±2.5 ppm
Test Setup:	System Simulator EUT Thermal Chamber
Test Procedure:	 Test Procedures for Temperature Variation The testing follows FCC KDB 971168 D01v03r01 Section 9.0. The EUT was set up in the thermal chamber and connected with the system simulator. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. Test Procedures for Voltage Variation The testing follows FCC KDB 971168 D01v03r01 Section 9.0. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. The variation in frequency was measured for the worst case.
Test Result:	PASS
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.



5.7.2. Test Instruments

Ī	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		Jun. 26, 2025
	DC power supply	Kingrang	KR3005K	/	Jun. 26, 2025
	Combiner Box	AT890-RFB	Ascentest	1 (3)	1 6





5.7.3. Test Data

Test Result of Temperature Variation

Band:	CDMA BC0	Channel:	384
Limit (ppm):	2.5	Frequency:	836.52MHz
Temperature (°C)	Deviation (pp	om)	Result
50	0.016		
40	0.015	/	
30	0.014	<	
20	0.013		
10	0.013	(C)	PASS
0	0.014		
-10	0.015	(
-20	0.017	K	
-30	0.019		Ch

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





Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
		4.4	+0.016		(C
CDMA BC0	CDMA	3.85	+0.015	2.5	PASS
- C		BEP	+0.018		

Note:

- Horman voltage = 3.00v.
 Battery End Point (BEP) = 3.6V.
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Appendix A: Photographs of Test Setup

Refer to the test report No. TCT240513E038

Appendix B: Photographs of EUT

Refer to the test report No. TCT240513E003

*****END OF REPORT****



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