TEST REPORT

APPLICANT	:	TCL Communication Ltd.
PRODUCT NAME	:	GSM Mobile phone
MODEL NAME	:	A323E
BRAND NAME	:	Alcatel
FCC ID	:	2ACCJB248
STANDARD(S)	:	47 CFR Part 15 Subpart B
RECEIPT DATE	:	2026-04-01
TEST DATE	:	2026-04-03 to 2026-04-30
ISSUE DATE	:	2026-05-15

Edited by: Chen Bilian

Chen Bilian(Rapporteur)

Approved by: Xiao Xiong

Xiao Xiong(Supervisor)

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MORLAB

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Change History		
Version	**Date**	**Reason for Change**
1.0	2026-05-15	First edition

Note: the latest revision of the report supersedes all previous version.

1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	TCL Communication Ltd.
Applicant Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd.
Manufacturer Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.2. Equipment Under Test (EUT) Description

Product Name:	GSM Mobile phone	
EUT No.:	1#	
Hardware Version:	05	
Software Version:	A323E_ALTR_2SIM_V1.4_20260410_UNLOCK	
Tx Frequency:	Bluetooth: 2402 MHz ~ 2480 MHz GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz	
Rx Frequency:	Bluetooth: 2402 MHz ~ 2480 MHz GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz FM: 87.5 MHz ~ 108 MHz	
Accessory:	**AC Adapter 1**	
	Brand Name:	alcatel
	Model No.:	XT-252E-5055
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~50/60Hz, 0.15A
	Rated Output:	5V⎓0.55A
	Manufacturer:	ShenZhen BaiJunDa Electronics Co.，Ltd
	AC Adapter 2	
	Brand Name:	alcatel
	Model No.:	XT-252A-5055
	Serial No.:	(N/A, marked #1 by test site)

	Rated Input:	100-240V~50/60Hz, 0.15A
	Rated Output:	5V⎓0.55A
	Manufacturer:	ShenZhen BaiJunDa Electronics Co.，Ltd
	AC Adapter 3	
	Brand Name:	alcatel
	Model No.:	XT-536B-5055A
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~50/60Hz, 0.15A
	Rated Output:	5V⎓0.55A
	Manufacturer:	ShenZhen BaiJunDa Electronics Co.，Ltd
	Battery	
	Brand Name:	alcatel
	Model No.:	TLi015NB
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	1500mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	ShenzhenAerospaceElectronic Co.,Ltd.
	USB Cable	
	Model:	JWUB1608
	Manufacturer:	HUIZHOU JUWEI ELECTRONICS CO.,LTD
	Earphone	
	Model:	JWEP1277
	Manufacturer:	HUIZHOU JUWEI ELECTRONICS CO.,LTD

Note:

1. There are three kinds of adapters, all adapters have been tested. For the CE and RE, only the worst case (Adapter 1) is recorded in this report.
2. The declarations of EUT presented in the report are provided by applicant, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to specification or user's manual supplied by the applicant.

2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.107	Conducted Emission	2026.04.13	Wang Yapeng	PASS	/
2	15.109	Radiated Emission	2026.04.03 to 2026.04.30	Fan Zehang	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.

2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Item	
Mode 1 :	EUT + GSM850 Idle + Bluetooth Idle + Battery + AC Adapter + USB Cable + Earphone + SIM Card + TF Card + Working Mode
Mode 2 :	EUT + GSM1900 Idle + Bluetooth Idle + Battery + AC Adapter + USB Cable + Earphone + SIM Card + TF Card + Working Mode
Mode 3 :	**EUT + GSM850 Idle + Bluetooth Idle + Battery + AC Adapter + USB Cable + Earphone + SIM Card + TF Card + Rear Camera Mode**
Mode 4 :	**EUT + GSM1900 Idle + Bluetooth Idle + Battery + AC Adapter + USB Cable + Earphone + SIM Card + TF Card + Play 1KHz Audio Mode**
Mode 5 :	EUT + GSM850 Idle + Bluetooth Idle + Battery + AC Adapter + USB Cable + Earphone + SIM Card + TF Card + Notebook + Notebook Adapter + Indirect Supply Mode
Remark: The above test mode in boldface (Mode 4) was the worst case of conducted emission test, only the test data of this mode was reported. The above test mode in boldface (Mode 3) was the worst case of radiated emission test, only the test data of this mode was reported.	

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106

3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

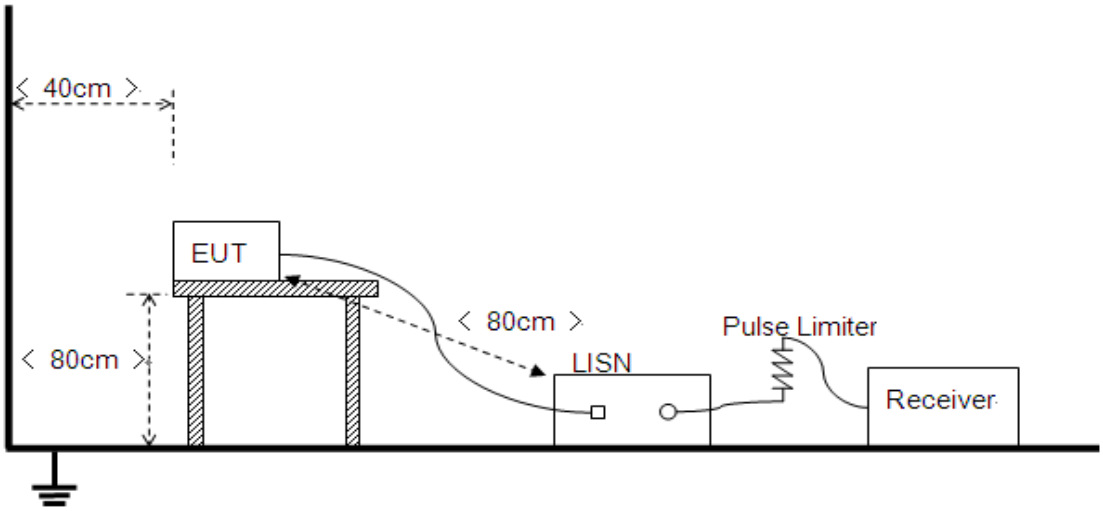
a) The limit subjects to the Class B digital device.

b) The lower limit shall apply at the band edges.

c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.



The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor,

and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50Ω/50μH of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

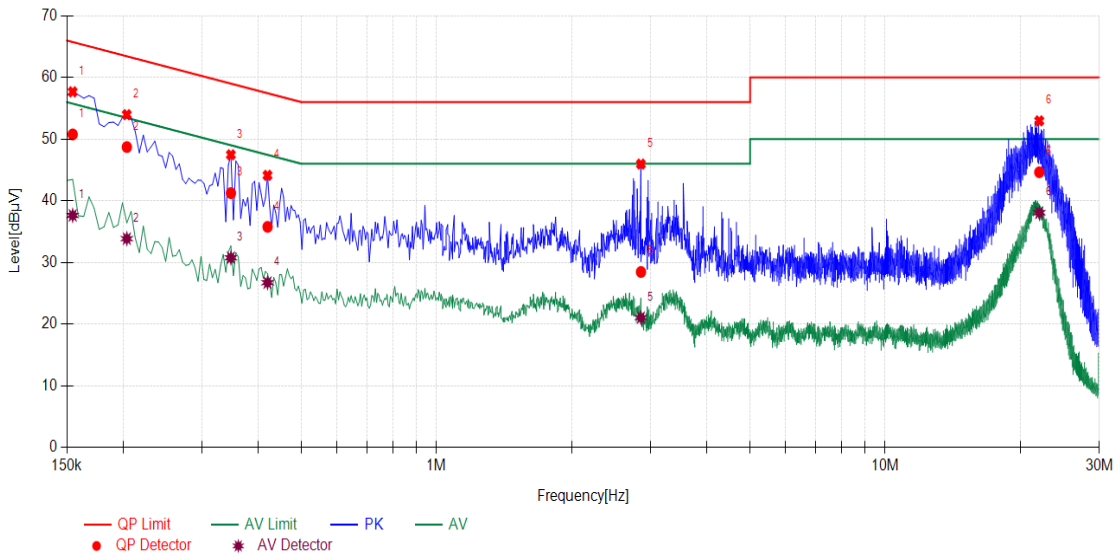
3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

The measurement results are obtained as below:
$E\ [dB\mu V] = U_R[dB\mu V] + L_{Cable\ loss}\ [dB] + A_{Factor}\ [dB]$
U_R: Receiver Reading
A_{Factor}: Voltage Division Factor of LISN
$L_{Cable\ loss}$: Correction Factor Contains Pulse Limiter and Cable

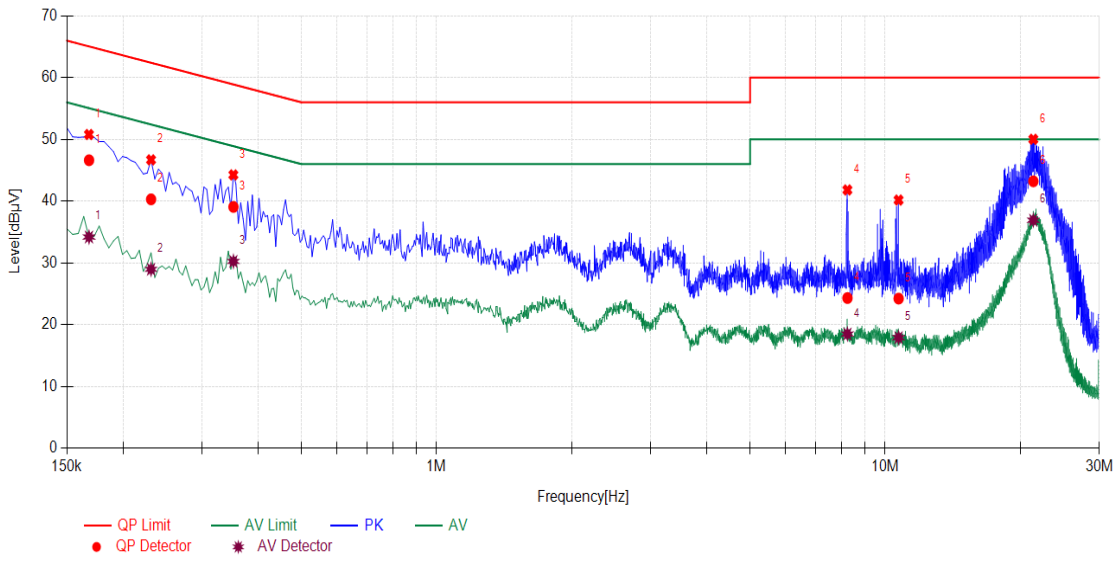
During the test, the total correction Factor $L_{Cable\ loss}$ and A_{Factor} were built in test software.

A. Test Plot and Suspicious Points:



(Plot A:L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quasi-peak	Average	Quasi-peak	Average		
1	0.1545	50.77	37.63	65.75	55.75	Line	PASS
2	0.2040	48.72	33.85	63.45	53.45		PASS
3	0.3480	41.25	30.75	59.01	49.01		PASS
4	0.4200	35.77	26.71	57.45	47.45		PASS
5	2.8544	28.45	21.04	56.00	46.00		PASS
6	22.0496	44.63	38.06	60.00	50.00		PASS



(Plot B: N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quasi-peak	Average	Quasi-peak	Average		
1	0.1680	46.63	34.19	65.06	55.06	Neutral	PASS
2	0.2310	40.29	28.96	62.41	52.41		PASS
3	0.3525	39.06	30.24	58.90	48.90		PASS
4	8.2373	24.31	18.48	60.00	50.00		PASS
5	10.7113	24.22	17.89	60.00	50.00		PASS
6	21.3855	43.22	36.91	60.00	50.00		PASS

3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency Range (MHz)	Field Strength Limitation at 3m Measurement Dist	
	(μV/m)	(dBμV/m)
30.0 - 88.0	100	20log 100
88.0 - 216.0	150	20log 150
216.0 - 960.0	200	20log 200
Above 960.0	500	20log 500

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

1) The tighter limit shall apply at the boundary between two frequency range.
2) Limitation expressed indBμV/m is calculated by 20log Emission Level(μV/m).

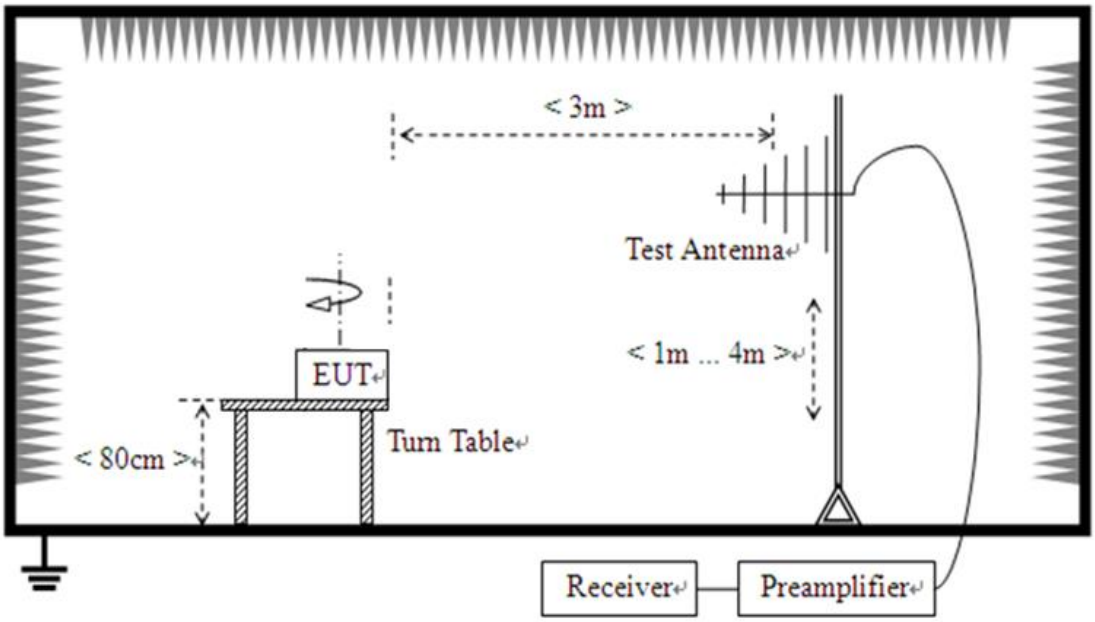
3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

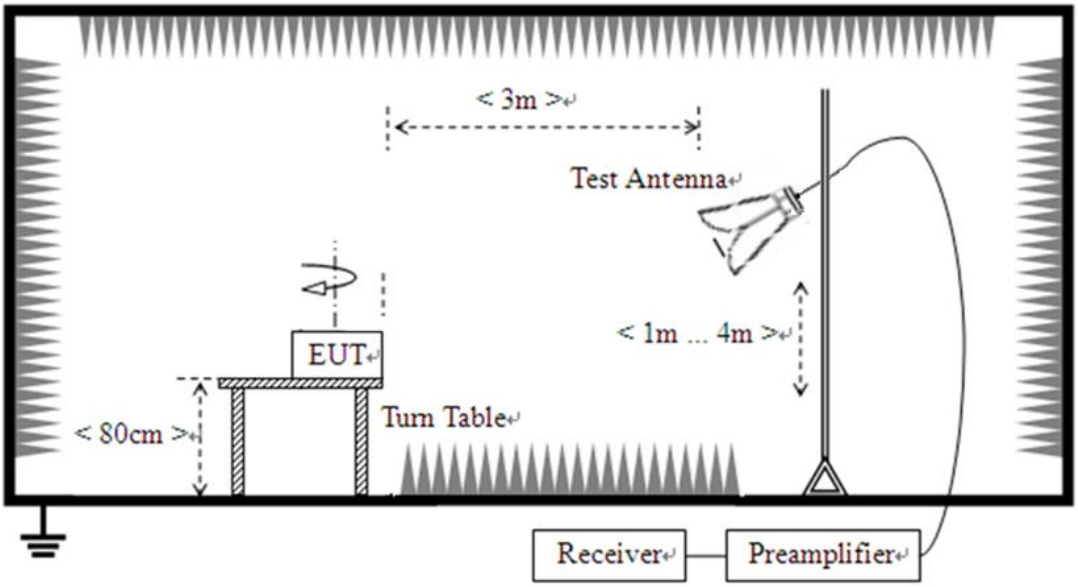
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz



The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz)are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

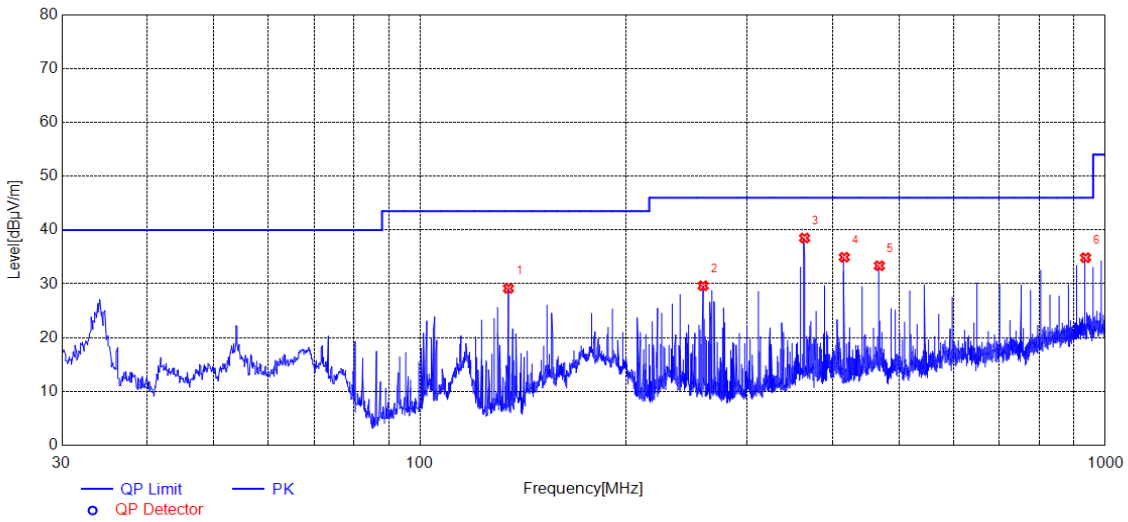
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-12.5GHz) are attenuated more than 20 dB below the permissible value need not be reported.

The measurement results are obtained as below:
E [dBμV/m] $=U_R$ [dBμV] + A_T[dB] + A_{Factor} [dB]; $A_T = L_{Cable\ loss}$ [dB] - G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m

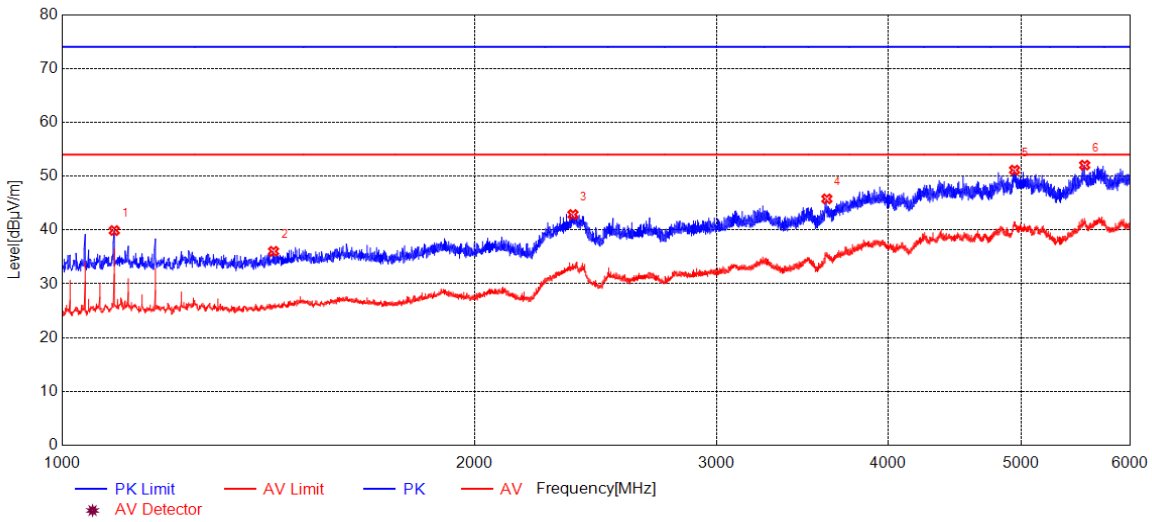
During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.



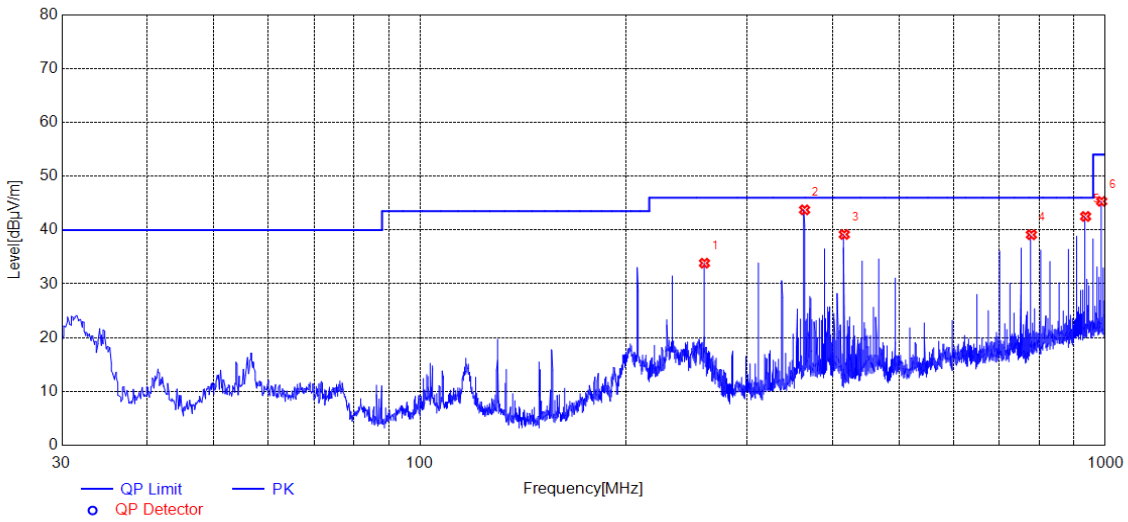
(Plot A: ANT-Vertical, 30MHz - 1GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	134.5765	29.15	N.A	N.A	N.A	43.50	N.A	V	PASS
2	258.8459	29.64	N.A	N.A	N.A	46.00	N.A	V	PASS
3	364.0044	38.51	N.A	N.A	N.A	46.00	N.A	V	PASS
4	416.0016	34.94	N.A	N.A	N.A	46.00	N.A	V	PASS
5	467.9988	33.36	N.A	N.A	N.A	46.00	N.A	V	PASS
6	935.9736	34.85	N.A	N.A	N.A	46.00	N.A	V	PASS



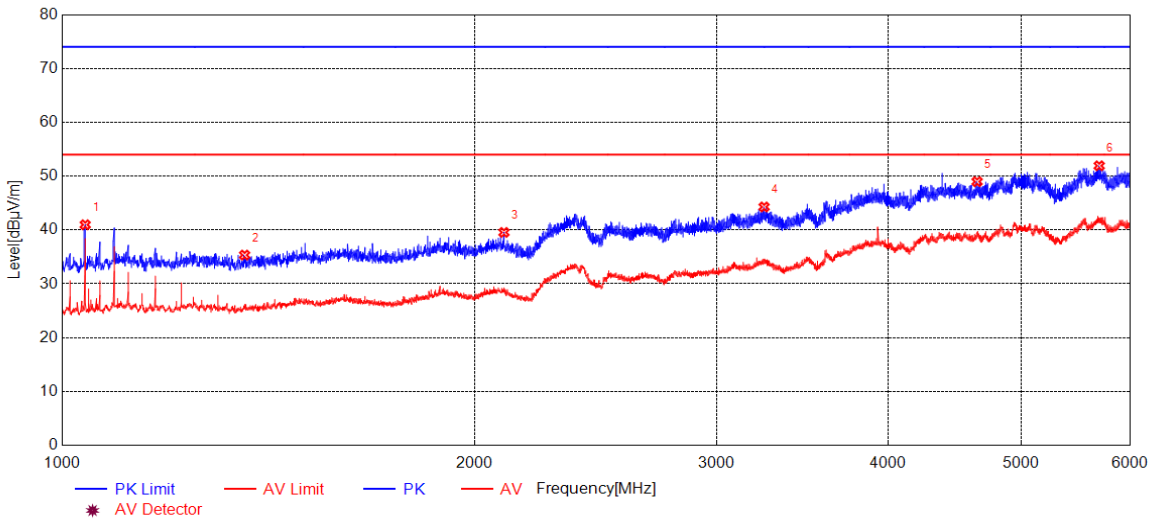
(Plot B: ANT-Vertical, 1GHz - 6GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1092.0000	39.89	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1426.5000	36.04	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2357.5000	42.87	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3610.0000	45.78	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4946.0000	51.13	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5564.0000	52.04	N.A	N.A	74.00	N.A	54.00	V	PASS



(Plot C: ANT- Horizontal, 30MHz - 1GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	260.0100	33.84	N.A	N.A	N.A	46.00	N.A	H	PASS
2	364.0044	43.74	N.A	N.A	N.A	46.00	N.A	H	PASS
3	416.0016	39.17	N.A	N.A	N.A	46.00	N.A	H	PASS
4	779.9820	39.11	N.A	N.A	N.A	46.00	N.A	H	PASS
5	935.9736	42.51	N.A	N.A	N.A	46.00	N.A	H	PASS
6	987.9708	45.31	N.A	N.A	N.A	54.00	N.A	H	PASS



(Plot D: ANT- Horizontal, 1GHz - 6GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1040.0000	40.97	N.A	N.A	74.00	N.A	54.00	H	PASS
2	1359.0000	35.34	N.A	N.A	74.00	N.A	54.00	H	PASS
3	2100.0000	39.55	N.A	N.A	74.00	N.A	54.00	H	PASS
4	3249.0000	44.28	N.A	N.A	74.00	N.A	54.00	H	PASS
5	4645.0000	48.98	N.A	N.A	74.00	N.A	54.00	H	PASS
6	5701.0000	51.93	N.A	N.A	74.00	N.A	54.00	H	PASS

Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	9kHz-150kHz	2.1dB
	150kHz-30MHz	2.8dB

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	30MHz-200MHz	4.3dB
	200MHz-1000MHz	4.4dB
	1GHz-6GHz	4.7dB
	6GHz-18GHz	5.2dB
	18GHz-40GHz	5.3dB

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Accreditation Certificate

Accredited Testing Laboratory:	The FCC designation number is CN1192. Test firm registration number is 226174. (Shenzhen Morlab Communications Technology Co., Ltd.)

4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend

5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Loop Antenna	FMZB 1519	1519-022	SCHWARZBECK	2025/5/16	2026/5/15
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2025/8/18	2026/8/17
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2025/6/20	2026/6/19
Receiver	N9038A	MY54130016	Agilent	2025/12/26	2026/12/25
Signal Analyzer	N9020A	MY56060145	Agilent	2025/5/13	2026/5/12
Preamplifier	S020180L3203	61171/61172	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier	DCLNA0118-40C-S	DS77209	Decentest	2025/5/13	2026/5/12
RF Coaxial Cable	PE330	MRE001	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE002	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE003	Pasternack	N/A	N/A
RF Coaxial Cable	QA360-40-KK-0.5	22290045	Qualwave	N/A	N/A
RF Coaxial Cable	QA360-40-KKF-2	22290046	Qualwave	N/A	N/A
RF Coaxial Cable	QA500-18-NN-5	22120181	Qualwave	N/A	N/A
RF Coaxial Cable	N/A	EMC-CE-00514	N/A	N/A	N/A
Receiver	ESPI	101052	R&S	2025/5/15	2026/5/14
LISN	ENV 216	103131	R&S	2026/3/18	2027/3/17
INTELLIGENT PURE SINE-WAVE POWER SUPPLY	TPS 500B	1008004	EVERFINE	2025/9/11	2026/9/10
System Simulator	CMW500	152038	R&S	2025/9/3	2026/9/2

6. Ancillary Equipment Utilized

Description	Model	Serial No.	Manufacturer

Radiated Emission			
TF Card	31696-002.A00LF	SDCS2/32GB	Kingston
SIM Card	N/A	N/A	China Unicom
Conducted Emission			
SIM Card	N/A	N/A	China Mobile
TF Card	31696-002.A00LF	SDCS2/32GB	Kingston
Notebook	DESKTOP-CE67CMR	B4AB026A-5D6E-4E6D-93D8-F8C507ECF90B	DELL
Notebook adapter	HA65NM190	N/A	DELL

Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5.Conformity declaration:

☑ Morlab issues a statement of conformity based on the corresponding standards（default）

☐ Morlab issues a statement of conformity based on the applicant requirement

6.Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty (“simple acceptance” decision rule).

END OF REPORT