



# FCC Test Report FCC ID: 2AT6G-TR1907Q

Product: 4G Smart Phone

Trade Mark: TERACUBE

Model Number: TR1907Q

Family Model: N/A

Report No.: STR190819001007E

## Prepared for

Teracube Inc 8573 154th Ave NE, Redmond, Washington, USA

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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Version.1.2 Page 1 of 21





Applicant's name .....: Teracube Inc

Report No.: STR190819001007E

# **TEST RESULT CERTIFICATION**

Address::	8573 154th Ave NE, Redmond, Washington, USA
Manufacturer's Name:	Teracube Inc
Address:	8573 154th Ave NE, Redmond, Washington, USA
Product description	
Product name:	4G Smart Phone
Model and/or type reference :	TR1907Q
Family Model:	N/A
Standards:	FCC Part15B ANSI C63.4:2014
	as been tested by NTEK, and the test results show that the in compliance with Part 15 of FCC Rules. And it is applicable only the report.
·	uced except in full, without the written approval of NTEK, this vised by NTEK, personnel only, and shall be noted in the revision o
Date of Test	<u>.</u>
Date (s) of performance of tests	
Date of Issue	
Test Result	Pass
Testing Engir	neer: Eileen Wu.
0 0	(Eileen Liu)
Technical Ma	(Jason Chen)
Authorized S	

Version.1.2 Page 2 of 21





Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP 3.1.4 EUT OPERATING CONDITIONS	12 12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
3.2.2 TEST PROCEDURE	17
3.2.3 TEST SETUP	18
3.2.4 TEST RESULTS	19
3.2.5 TEST RESULTS	21

Version.1.2 Page 3 of 21





# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard Test Item Limit Judgment							
FCC Part15B	Conducted Emission	Class B	PASS				
ANSI C63.4: 2014	Radiated Emission	Class B	PASS				

# NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

Version.1.2 Page 4 of 21





## 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

FCC Registration Number:463705; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 MEASUREMENT UNCERTAINTY

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

Test Item	Measurement Frequency Range	К	U(dB)
AC Mains Conducted Emission	0.009kHz ~ 0.15MHz	2	2.66
AC Mains Conducted Emission	0.15MHz ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	2.40
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	2.58
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 6000MHz	2	5.10
Radiated Emission	6000MHz ~ 18000MHz	2	2.52
Power Clamp	30MHz ~ 300MHz	2	2.20

Version.1.2 Page 5 of 21





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	4G Smart Phone				
Trade Mark	TERACUBE				
Model Name	TR1907Q				
Family Model	N/A				
Model Difference	N/A				
	The EUT is a 4G Smart Phone.				
Product Description	Connecting I/O port:	Micro USB, Earphone			
Froduct Description	Operation Frequency:	5.8GHz			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Power Source	DC 3.85V from Battery o	r DC 5V from USB Port.			
	Model: TPA-46050200U	U			
Adapter	Input: 100-240V~50-60H	z 0.3A			
	Output: 5V2A				
Battery	DC 3.85V/3450mAh				
HW Version	V7101P_MB_V1.0				
SW Version	Teracube_S1_05				

Version.1.2 Page 6 of 21





## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM

For Conducted Test					
Final Test Mode Description					
Mode 1	USB Data Transmission				
Mode 2	TF card Playing				
Mode 3	REC				
Mode 4	FM				

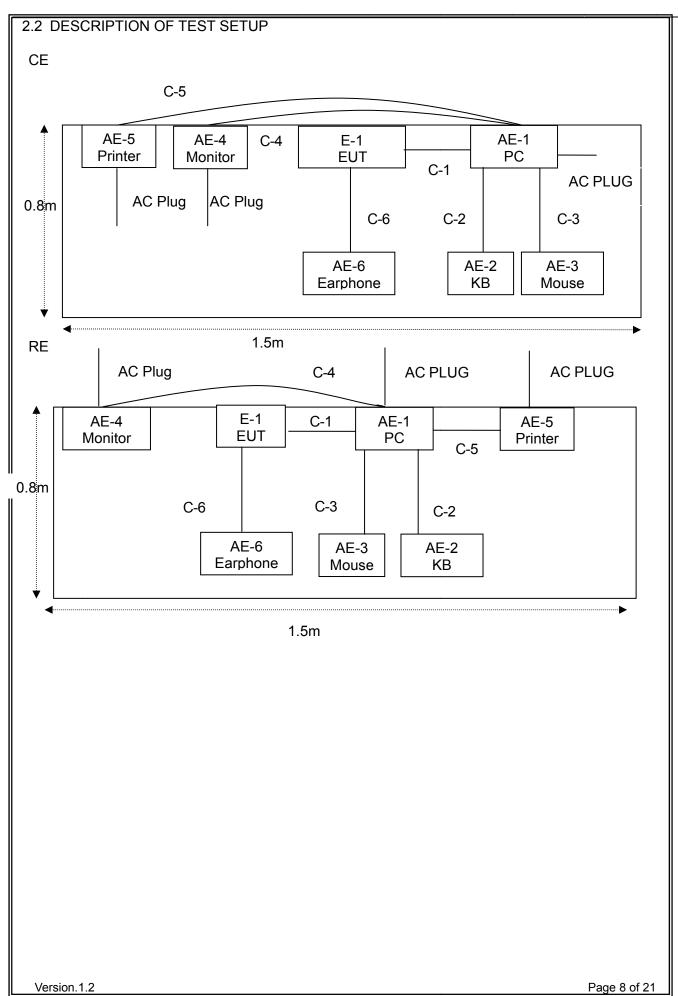
For Radiated Test					
Final Test Mode	Description				
Mode 1	USB Data Transmission				
Mode 2	TF card Playing				
Mode 3	REC				
Mode 4	FM				

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.

Version.1.2 Page 7 of 21











## 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	del/Type No. Series No.	
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	DELL	SK-8185	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	SHARP	LCD-32MS46A	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	KB Cable	NO	NO	1.2m	
C-3	Mouse Cable	NO	ОИ	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	
C-6	Earphone Cable	NO	NO	1.0m	

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

Version.1.2 Page 9 of 21





# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2019.05.13	2020.05.12	1 year
2	Test Receiver	R&S	ESPI	101318	2019.05.13	2020.05.12	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2019.05.13	2020.05.12	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2019.05.13	2020.05.12	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2019.04.15	2020.04.14	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.05.13	2020.05.12	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2019.08.06	2020.08.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2019.05.13	2020.05.12	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2019.08.06	2020.08.05	1 year
11	Power Sensor	R&S	URTR1907 Q-Z4	0395.1619. 05	2019.05.13	2020.05.12	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year

AC Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2019.05.13	2020.05.12	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

Version.1.2 Page 10 of 21





# 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class	B (dBuV)
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

# Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Version.1.2 Page 11 of 21

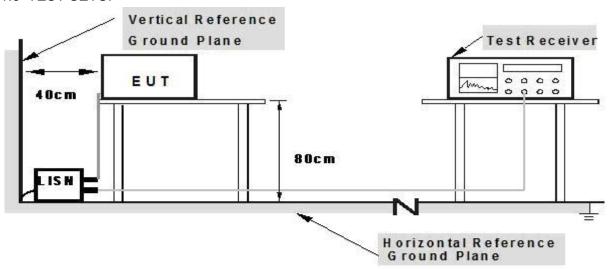




### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISH's (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

## 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

Version.1.2 Page 12 of 21





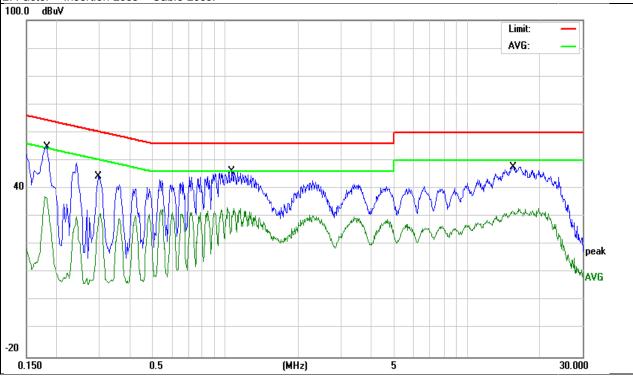
# 3.1.5 TEST RESULTS

EUT:	4G Smart Phone	Model Name. :	TR1907Q	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2019-06-13	
Test Mode:	Mode 1	Phase :	L	
Test Voltage:	DC 5V from PC AC120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	44.97	9.76	54.73	64.39	-9.66	QP
0.1819	27.37	9.76	37.13	54.39	-17.26	AVG
0.2980	34.73	9.74	44.47	60.30	-15.83	QP
0.2980	21.31	9.74	31.05	50.30	-19.25	AVG
1.0620	36.33	9.74	46.07	56.00	-9.93	QP
1.0620	23.52	9.74	33.26	46.00	-12.74	AVG
15.5099	37.65	10.11	47.76	60.00	-12.24	QP
15.5099	22.86	10.11	32.97	50.00	-17.03	AVG

# Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 13 of 21

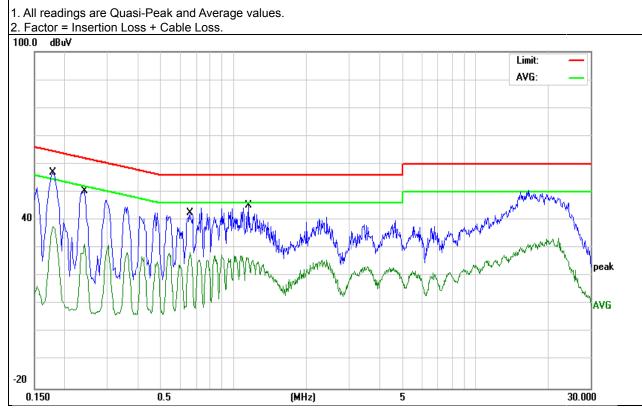




EUT:	4G Smart Phone	Model Name. :	TR1907Q
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-06-13
Test Mode:	Mode 1	Phase :	N
Test Voltage: DC 5V from PC AC120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1780	47.20	9.73	56.93	64.57	-7.64	QP
0.1780	27.96	9.73	37.69	54.57	-16.88	AVG
0.2420	40.59	9.74	50.33	62.02	-11.69	QP
0.2420	21.78	9.74	31.52	52.02	-20.50	AVG
0.6580	32.90	9.75	42.65	56.00	-13.35	QP
0.6580	18.71	9.75	28.46	46.00	-17.54	AVG
1.1539	35.39	9.75	45.14	56.00	-10.86	QP
1.1539	17.56	9.75	27.31	46.00	-18.69	AVG

## Remark:



Version.1.2 Page 14 of 21

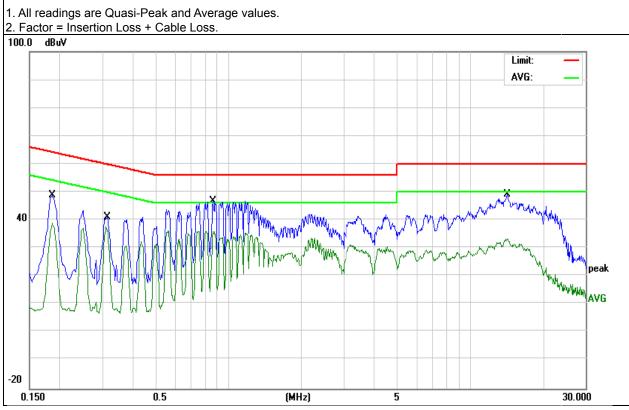




EUT:	4G Smart Phone	Model Name. :	TR1907Q	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2019-06-13	
Test Mode:	Mode 1	Phase :	L	
Test Voltage:	DC 5V from PC AC240V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1859	39.18	9.76	48.94	64.21	-15.27	QP
0.1859	29.09	9.76	38.85	54.21	-15.36	AVG
0.3099	31.26	9.74	41.00	59.97	-18.97	QP
0.3099	28.08	9.74	37.82	49.97	-12.15	AVG
0.8619	36.97	9.74	46.71	56.00	-9.29	QP
0.8619	26.31	9.74	36.05	46.00	-9.95	AVG
14.2858	39.12	10.09	49.21	60.00	-10.79	QP
14.2858	23.15	10.09	33.24	50.00	-16.76	AVG

### Remark:



Version.1.2 Page 15 of 21

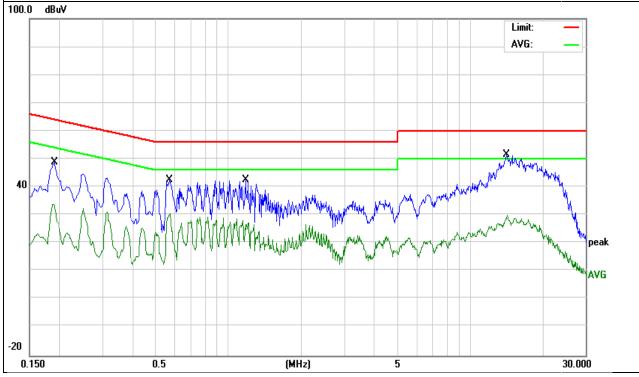


EUT:	4G Smart Phone	Model Name. :	TR1907Q	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2019-06-13	
Test Mode:	Mode 1	Phase :	N	
Test Voltage:	DC 5V from PC AC240V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1900	39.19	9.73	48.92	64.03	-15.11	QP
0.1900	24.16	9.73	33.89	54.03	-20.14	AVG
0.5699	32.72	9.75	42.47	56.00	-13.53	QP
0.5699	20.80	9.75	30.55	46.00	-15.45	AVG
1.1779	32.77	9.75	42.52	56.00	-13.48	QP
1.1779	18.44	9.75	28.19	46.00	-17.81	AVG
14.1539	41.54	10.09	51.63	60.00	-8.37	QP
14.1539	19.72	10.09	29.81	50.00	-20.19	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 16 of 21





#### 3.2 RADIATED EMISSION MEASUREMENT

## 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)
FREQUENCY (MHz)	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Version.1.2 Page 17 of 21



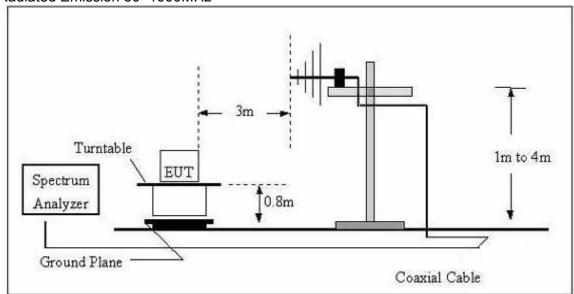
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

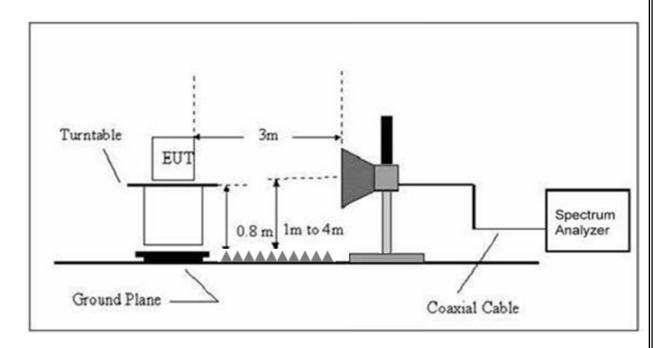
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Avg	1 MHz	10 Hz

## 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



Version.1.2 Page 18 of 21





# 3.2.4 TEST RESULTS

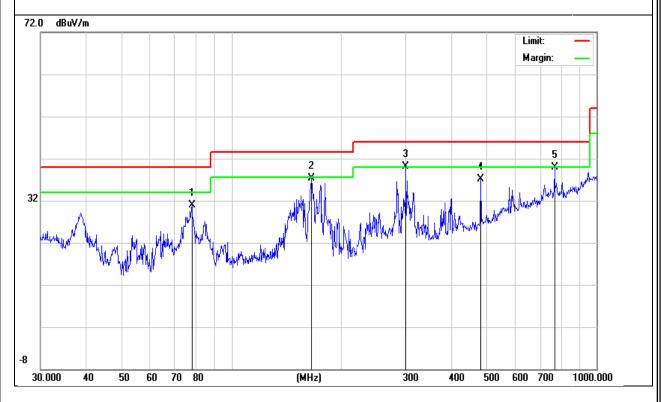
# TEST RESULTS (30~1000 MHz)

	1.	a.	
EUT:	4G Smart Phone	Model Name:	TR1907Q
Temperature:	<b>24</b> °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-06-13
Test Mode :	Mode 1	Polarization:	Horizontal
Test Power :	DC 5V from PC AC120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	77.8654	22.62	8.26	30.88	40.00	-9.12	QP
Н	165.4866	25.85	11.41	37.26	43.50	-6.24	QP
Н	300.3672	23.96	16.09	40.05	46.00	-5.95	QP
Н	480.5276	15.74	21.41	37.15	46.00	-8.85	QP
Н	766.0571	12.37	27.50	39.87	46.00	-6.13	QP

### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



Version.1.2 Page 19 of 21



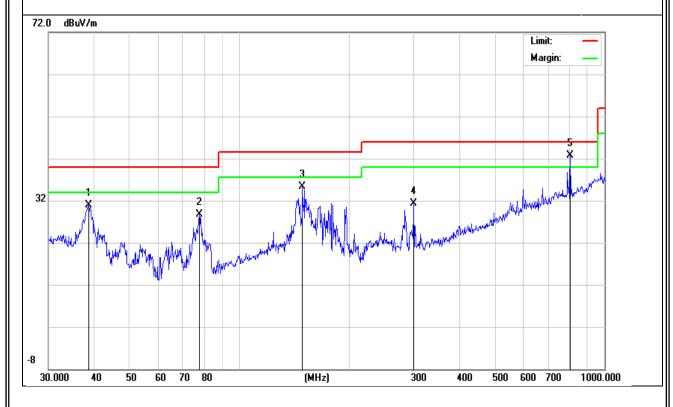


EUT:	4G Smart Phone	Model Name :	TR1907Q
Temperature:	<b>24</b> °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-06-13
Test Mode :	Mode 1	Polarization :	Vertical
Test Power:	DC 5V from PC AC120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	1101110111
V	38.7518	16.04	14.94	30.98	40.00	-9.02	QP
V	77.5928	20.55	8.21	28.76	40.00	-11.24	QP
V	148.9625	22.47	12.84	35.31	43.50	-8.19	QP
V	300.3672	15.18	16.09	31.27	46.00	-14.73	QP
V	804.6028	15.30	27.33	42.63	46.00	-3.37	QP QP QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



Version.1.2 Page 20 of 21





# 3.2.5 TEST RESULTS

EUT:	4G Smart Phone	Model Name :	TR1907Q		
Temperature:	<b>24</b> ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2019-06-13		
Test Mode :	Mode 1				
Test Power:	DC 5V from PC AC120V/60Hz				

All the modulation modes have been tested, and the worst result was report as below:

Pola r (H/V	Frequency	Reading	Corre ct	Result	Limit	Over Limit	Rema rk
)	(MHz)	(dBuV/m )	dB/m	(dBuV/m )	(dBuV/ m)	(dB)	IK
V	2955	42.37	-2.45	39.92	74	-34.08	peak
V	5377.5	34.16	7.03	41.19	74	-32.81	peak
V	10562.5	-6.36	56.38	50.02	74	-23.98	peak
V	13240	-9.05	60.82	51.77	74	-22.23	peak
V	17022.5	-17.1	68	50.9	74	-23.1	peak
Н	2955	40.76	-2.45	38.31	74	-35.69	peak
Н	5632.5	33.61	7.47	41.08	74	-32.92	peak
Н	8267.5	-6.32	53.34	47.02	74	-26.98	peak
Н	10052.5	-7.47	54.76	47.29	74	-26.71	peak
Н	14387.5	-10.46	61.81	51.35	74	-22.65	peak

## Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Note: Only the worst results data points are reported in the report.

When PK value is lower than the Average value limit, average don't record.

Version.1.2 Page 21 of 21