

RF Test Report

For

Applicant Name: Address: EUT Name: Brand Name: Model Number:	FOXX Development Inc. 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA Smart Phone FOXXD A5 Plus
	Issued By
Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,
Address:	Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number:

Test Standards:

FCC ID: Test Conclusion: Test Date: Date of Issue: BTF240124R00104 FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27 2AQRM-A5PLUS Pass 2024-01-25 to 2024-02-27 2024-02-29

Prepared By:

Date:

Date:

Approved By:

Ryan.CJ / EMC Manager 2024-02-29

hris du

Chris Liu / Project Enginee

2024-02-29

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-02-29	Original
Note:	Once the revision has	been made, then previous versions reports are invalid.

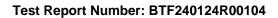




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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
FCC Registration Number:	518915	
Designation Number:	CN1330	

1.3 Laboratory Condition

Ambient Temperature:	20°C to 35°C
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2. Product Information

2.1 Application Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	A5 Plus
Hardware Version	N/A
Software and Firmware Version	c64-xx08-ybt-S6B15-A5_V01



2.5 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

	GSM/GPRS/EGPI	RS 850/1900 MHz	
Operating Bands	WCDMA/HSDPA/HSUPA Band 2/4/5		
	FDD LTE Band 2/4/5/12/13/17/66/71		
	GPRS	GMSK	
	EGPRS	8PSK	
	WCDMA	QPSK	
Modulation Type		QPSK	
	HSDPA/HSUPA	16QAM	
	LTE	QPSK	
		16QAM	
	GPRS/EGPRS 85	0: 824.2 MHz ~ 848.8 MHz	
	GPRS/EGPRS 19	00: 1850.2 MHz ~ 1909.8 MHz	
	WCDMA/HSDPA/	HSUPA Band 2: 1852.4 MHz ~ 1907.6 MHz	
	WCDMA/HSDPA/	HSUPA Band 4: 1712.4 MHz ~ 1752.6 MHz	
	WCDMA/HSDPA/	HSUPA Band 5: 826.4 MHz ~ 846.6 MHz	
	FDD LTE Band 2:	1850.7 MHz ~ 1909.3 MHz	
TX Frequency Range	FDD LTE Band 4: 1710.7 MHz ~ 1754.3 MHz		
	FDD LTE Band 5: 824.7 MHz ~ 848.3 MHz		
	FDD LTE Band 12: 699.7 MHz ~ 715.3 MHz		
	FDD LTE Band 13:779.5 MHz ~ 784.5 MHz		
	FDD LTE Band 17:706.5 MHz ~ 713.5 MHz		
	FDD LTE Band 66: 1710.7 MHz ~ 1779.3 MHz		
	FDD LTE Band 71	:665.5 MHz ~ 695.5 MHz	
	GPRS/EGPRS 85	0: 869.2 MHz ~ 893.8 MHz	
	GPRS/EGPRS 1900: 1930.2 MHz ~ 1989.8 MHz		
	WCDMA/HSDPA/HSUPA Band 2: 1932.4 MHz ~ 1987.6 MHz		
	WCDMA/HSDPA/HSUPA Band 4: 2112.4 MHz ~ 2152.6 MHz		
	WCDMA/HSDPA/HSUPA Band 5: 871.4 MHz ~ 891.6 MHz		
	FDD LTE Band 2: 1930.7 MHz ~ 1989.3 MHz		
Rx Frequency Range	FDD LTE Band 4: 2110.7 MHz ~ 2154.3 MHz		
	FDD LTE Band 5: 869.7 MHz ~ 893.3 MHz		
	FDD LTE Band 12: 729.7 MHz ~ 745.3 MHz		
	FDD LTE Band 13: 748.5 MHz ~ 753.5 MHz		
	FDD LTE Band 17	7:736.5 MHz ~ 743.5 MHz	
	FDD LTE Band 66	5: 2110.7 MHz ~ 2179.3 MHz	
	FDD LTE Band 71	:619.5 MHz ~ 649.5MHz	

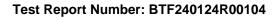


Power Class	GPRS 850: 4 GPRS 1900: 1 EGPRS 850/1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 4: 3 WCDMA/HSDPA/HSUPA Band 5: 3 FDD LTE Band 2: 3 FDD LTE Band 4: 3 FDD LTE Band 4: 3 FDD LTE Band 5: 3 FDD LTE Band 12: 3 FDD LTE Band 13: 3 FDD LTE Band 17: 3 FDD LTE Band 66: 3
	FDD LTE Band 71:3
Multislot Class	GPRS/EGPRS: 12
Antenna Type	FPC Antenna



	GSM850	GSM1900	WCDMA B2	WCDMA B4						
	-2.18dBi	0.92dBi	0.92dBi	0.53dBi						
	WCDMA B5	LTE B2	LTE B4	LTE B5						
Antenna Gain	-2.18dBi	0.92dBi	0.53dBi	-2.18dBi						
Antenna Gain	LTE B12	LTE B13	LTE B17	LTE B66						
	-2.23dBi	-1.98dBi	-2.23dBi	0.53dBi						
	LTE B71									
	-2.69dBi									
	GSM850:26.82dBm	ı								
	GSM1900: 28.75dBm									
	WCDMA Band II:22.5dBm									
	WCDMA Band IV: 22.10dBm									
	WCDMA Band V: 1	7.78dBm								
	LTE Band 2:23.74d	lBm								
The Max RF Output	LTE Band 4: 23.160	LTE Band 4: 23.16dBm								
Power (EIRP/ERP)	LTE Band 5:19.15	dBm								
	FDD LTE Band 12: 18.82dBm									
	FDD LTE Band 13: 18.99dBm									
	FDD LTE Band 17:	19.03dBm								
	FDD LTE Band 66:	23.24dBm								
	FDD LTE Band 71: 18.06dBm									

Note: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.





3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
6	KDB 971168 D01 v03r01	Measurement Guidance for Certification of Licensed Digital Transmitters
7	ANSI C63.26:2015	IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services



3.2 Summary of Test Result

No.	Description	FCC Part No.	Test Verdict	Remark
1	Conducted RF Output Power	Pass		
2	Effective (Isotropic) Radiated Power	2.1046 22.913(a) 24.232(c) 27.50	Pass	
3	Peak to Average Radio	2.1046 22.913(d) 24.232(d) 27.50(d)	Pass	
4	Occupied Bandwidth	2.1049 22.917(b) 24.238(b) 27.53	Pass	
5	Frequency Stability	2.1055 22.355 24.235 27.54	Pass	
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53	Pass	
7	Band Edge	2.1051 22.917 24.238 27.53	Pass	
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	Pass	

3.3 Uncertainty of Test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 and TR100 028-1/-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value				
RF output power, conducted	0.63 dB				
Conducted spurious emissions	0.94 dB				
Radiated emissions (<1 GHz)	4.12 dB				
Radiated emissions (>1 GHz)	4.16 dB				
Occupied Channel Bandwidth	69 KHz				
Frequency Stability	0.4 KHz				
Temperature	0.82 °C				
Humidity	4.1 %				



4. Test Configuration

4.1 Environment Condition

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

	NV (Normal Voltage)	4.35 V
Test Voltage of the EUT	LV (Low Voltage)	3.92 V
, , , , , , , , , , , , , , , , , , ,	HV (High Voltage)	4.78 V
	NT (Normal Temperature)	+25 °C
Test Temperature of the EUT	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+50 °C

4.2 Test Equipment List

	Conc	lucted Method	d Test			
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023.11.16	2024.11.15	\boxtimes
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023.11.16	2024.11.15	\boxtimes
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023.11.16	2024.11.15	\boxtimes
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023.11.16	2024.11.15	\boxtimes
RF Sensor Unit	Techy	TR1029-2	/	2023.11.16	2024.11.15	\boxtimes
RF Control Unit	Techy	TR1029-1	/	2023.11.16	2024.11.15	\boxtimes
RFTest software	/	V1.00	/	/	/	\boxtimes

	Radiated Method Test												
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use							
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023.11.16	2024.11.15	\boxtimes							
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023.11.16	2024.11.15	\boxtimes							
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023.11.16	2024.11.15	\square							
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023.11.16	2024.11.15	\boxtimes							
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	/	\boxtimes							
RE Cable	REBES Talent	UF2-NMNM- 10m	21101570	2023.11.16	2024.11.15	\boxtimes							

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RE Cable	REBES Talent	UF1-SMASMAM- 10m	21101566	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2023.11.16	2024.11.15	\boxtimes
RE Cable REBES Talent		UF2-NMNM-10m 21101570		2023.11.16	2024.11.15	\boxtimes
RE Cable REBES Talent		UF1-SMASMAM- 10m	21101566	2023.11.16	2024.11.15	\boxtimes
Preamplifier	SCHWARZBECK	BBV9744	00246	2023.11.16	2024.11.15	\boxtimes
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2023.3.26	2024.3.25	\boxtimes
Low Noise Pre- amplifier	Sket	LNPA_1840G-50	SK2022032902	2023.3.26	2024.3.25	\boxtimes
Coaxial cable Multiflex 141	Coaxial cable Schwarzbeck		517386	2023.3.26	2024.3.25	\boxtimes
Broadband Preamplilifier	Schwarzbeck	BBV9718D	00008	2023.3.26	2024.3.25	\boxtimes

4.3 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description	Use
/	/	/	/	/	/	\boxtimes



4.4 Test Configurations

Test Items	Test Mode	Test Channel				
roornomo		LCH	MCH	HCH		
	GPRS 850	v	v	v		
	GPRS 1900	v	V	v		
	EGPRS 850	v	v	v		
	EGPRS 1900	v	V	v		
	WCDMA Band 2	v	v	v		
	WCDMA Band 4	v	v	v		
Effective (Isotropic) Radiated Power	WCDMA Band 5	v	v	v		
	HSDPA Band 2	V	v	v		
	HSDPA Band 4					
	HSDPA Band 5	v	V	v		
	HSUPA Band 2	v	V	v		
	HSUPA Band 4	v	V	v		
	HSUPA Band 5	v	V	v		
0.94	GPRS 850	v	v	v		
	GPRS 1900	v	V	v		
	EGPRS 850	V	v	V		
	EGPRS 1900	v	v	v		
	WCDMA Band 2	V	v	v		
0	WCDMA Band 4	V	V	v		
Spurious Emission at Antenna Terminals	WCDMA Band 5	v	v	v		
	HSDPA Band 2	v	V	v		
	HSDPA Band 4	V	V	V		
	HSDPA Band 5	v	V	V		
	HSUPA Band 2	v	V	v		
	HSUPA Band 4	v	V	v		
	HSUPA Band 5	v	V	v		
1	GPRS 850	V	v	V		
	GPRS 1900	v	V	v		
	EGPRS 850	v	V	v		
	EGPRS 1900	v	v	v		
Field Strength of Spurious Radiation	WCDMA Band 2	v	v	v		
Spurious Raulation	WCDMA Band 4	v	v	v		
	WCDMA Band 5	v	V	v		
	HSDPA Band 2	v	v	v		
	HSDPA Band 4	v	v	v		

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HSDPA Band 5	v	v	v
HSUPA Band 2	v	v	v
HSUPA Band 4	v	v	v
HSUPA Band 5	v	v	V

UL Frequency UL Channel No. Test Mode **UL** Channel (MHz) Low Channel 128 824.2 GPRS/EGPRS 850 Middle Channel 190 836.6 251 High Channel 848.8 Low Channel 512 1850.2 **GPRS/EGPRS 1900** Middle Channel 661 1880.0 High Channel 810 1909.8 Low Channel 9262 1852.4 9400 WCDMA Band 2 Middle Channel 1880.0 **High Channel** 9538 1907.6 Low Channel 1312 1712.4 WCDMA Band 4 1732.6 Middle Channel 1413 1752.6 **High Channel** 1513 826.4 Low Channel 4132 4182 836.4 WCDMA Band 5 Middle Channel **High Channel** 4233 846.6



LTE		Ba	ndwic	lth (M	Hz)		Modula	ation Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
					Eff	ective	(Isotropic) Radiated F	Power	•				
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	V	v	v	v	v	v	v
5	v	v	v	v	n	n	v	V	v	v	v	V	v	v
12	v	v	v	v	n	n	v	V	V	v	V	V	V	v
13	n	n	v	v	n	n	v	V	v	V	v	v	V	v
17	n	n	v	v	n	n	v	V	V	V	v	V	v	v
66	v	v	v	v	v	v	v	V	v	v	v	v	V	v
71	n	n	v	v	v	v	v	V	v	v	v	v	v	v
						Pe	ak to Ave	rage Ratio						
2	v	v	v	v	v	v	v	V	v	v	v	v	v	v
4	v	v	v	v	v	v	v	V	v	v	v	v	v	v
5	v	v	v	v	n	n	v	V	v	v	v	v	v	v
12	v	v	v	v	n	n	v	V	v	v	v	v	v	v
13	n	n	v	v	n	n	v	V	v	v	v	v	v	v
17	n	n	V	v	n	n	v	V	v	v	V	v	v	17
66	v	v	v	v	v	v	v	V	v	v	v	v	v	v
71	n	n	v	v	v	v	v	V	v	v	v	v	v	v
						0	ccupied E	Bandwidth						
2	v	v	v	v	v	V	v	V	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	V	v	v	v	v	v	v
12	v	v	v	v	n	n	v	v	v	v	v	v	v	v
13	n	n	v	v	n	n	v	V	v	v	v	v	V	v
17	n	n	V	v	n	n	v	V	V	v	v	V	V	17
66	v	v	v	v	v	v	v	V	v	v	v	v	v	v
71	n	n	v	v	v	v	v	V	v	v	v	v	v	v

						F	requency	/ Stability						
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	V	v	V	v	v	v	v
5	v	v	v	v	n	n	v	V	v	V	v	v	v	v
12	v	v	v	v	n	n	v	v	v	v	v	V	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v
17	n	n	V	V	n	n	v	V	v	V	V	v	V	17
66	v	v	v	v	v	v	v	v	v	v	v	v	v	V

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71	n	n	v	v	v	V	v	v	v	v	v	v	v	V
					Spuri	ous Er	mission a	t Antenna Te	ermina	als				
2	v	v	v	v	v	v	v	V	v	v	V	v	V	v
4	v	v	v	v	v	v	v	v	v	V	v	v	V	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
12	v	v	v	v	n	n	v	v	v	v	V	v	v	V
13	n	n	v	v	n	n	v	v	v	v	V	v	v	V
17	n	n	v	v	n	n	v	V	v	V	V	v	v	17
66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
71	n	n	v	v	v	v	v	v	v	v	V	V	v	V
							Band	Edge						
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
12	v	v	v	v	n	n	v	v	v	V	V	v	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	V
17	n	n	v	v	n	n	V	V	v	V	V	V	V	17
66	v	v	v	v	v	v	v	V	v	v	v	v	v	v
71	n	n	v	v	v	v	v	V	v	V	V	v	v	v



					Fie	eld Stre	ength of S	purious Rac	diation					
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	V	v	v	v	V	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	V	v
12	v	v	v	v	n	n	v	v	v	v	v	v	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v
17	n	n	v	v	n	n	v	V	v	v	V	v	V	17
66	v	v	v	v	v	v	v	v	v	V	V	v	V	v
71	n	n	v	v	v	v	v	v	v	v	V	v	v	v
						-		hosen for te	esting.					
Note 2: T	he ma	rk "n"	mean	s that	this b	bandwi	dth is not	supported.						



		Ban	d 2		
Test Frequency ID	Bandwidth [MHz]	Nul	Frequency of Uplink [MHz]	Ndl	Frequency of Downlink [MHz]
	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
Low Range	5	18625	1852.5	625	1932.5
Low Kange	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 [1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
High Range	10	19150	1905	1150	1985
	15 ¹⁰	19125	1902.5	1125	1982.5
	20 [1]	19100	1900	1100	1980
NOTE 1: Bandwidth	for which a relaxation				
	7] Clause 7.3) is allo				
		Ban	d 4		
Test Frequency ID	Bandwidth [MHz]	Nul	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
Low Range	10	20000	1715	2000	2112.5
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
martango	1.4	20393	1754.3	2393	2154.3
1	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
High Range	10	20350	1750	2350	2150
1	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2147.5
-	+	Ban	-		+
				1	-
Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Low Range	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10 [1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
			047.5	2635	892.5
High Bange	3	20635	847.5		
High Range	3 5 10 ^[1]	20635 20625	847.5	2635	891.5

Table 4.3.1.1.12-1:	Test frequenci	es for E-UT	RA channel band	width for	operating band
Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MH
	1.4	23017	699.7	5017	729.7
Law Davas	3	23025	700.5	5025	730.5
Low Range	5 [1]	23035	701.5	5035	731.5
	10 [1]	23060	704	5060	734
Mid Range	1.4/3 5 ^[1] /10 ^[1]	23095	707.5	5095	737.5
	1.4	23173	715.3	5173	745.3
LEAD Dances	3	23165	714.5	5165	744.5
High Range	5 [1]	23155	713.5	5155	743.5
	10 [1]	23130	711	5130	741

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			Bar	d 13			
Т	est Frequency ID	Bandwidth [MHz]	Nul	Frequency of Uplink [MHz]	Ndl	Frequency of Downlink [MHz	
	Low Range	5[1]	23205	779.5	5205	748.5	
		10 [1]	23230	782	5230	751	
	Mid Range	5 [1]/10 [1]	23230	782	5230	751	
	High Range	5[1]	23255	784.5	5255	753.5	
		10 [1]	23230	782	5230	751	
N		1 [27] Clause 7.3) is allowed.	cified UE receiver se	ensitivity requ	Irement	
			Bar	nd17			
Table 4.3.1.1.1	17-1: Test f	requencies	for E-UT	RA channel	bandw	idth for op	erating band 1
Test Frequency		dwidth IHz]	NUL	Frequency Uplink [MH		NDL	Frequency of Downlink [MHz]
Low Range		11	23755	706.5		5755	736.5
		0 [1]	23780	709		5780	739
Mid Range		/10 [1]	23790	710		5790	740
High Range		[1]	23825	713.5		5825	743.5
	1	0 [1]	23800	711		5800	741
			Bar	d 66			
				RA channel ban			
	Test Frequence ID	[MHz]		Frequency of Uplink [MHz]	N	Frequency o Downlink [MH	
		1.4	13197		66443 66451	2110.7 2111.5	
	Low Range	5	13199	7 1712.5	66461	2112.5	
	Low Kunge	10	13202		66486 66511	2115 2117.5	
		20	13204		66536	2117.5	
	Mid Range Tx	1.4/3/5/10/1	5/20 13232:	2 1745	66786	2145	
	Mid Range	1.4/3/5/10/1			66886	2155	
		1.4	13266		67129 67121	2179.3 2178.5	-
	Paired High	5	13265		67121	2178.5	-
	Range ²	10	13262		67086	217.5	
		15	13259		67061	2172.5	
		20	13257		67036	2170	
		1.4	NA	NA	67329	2199.3	-
	1 he			NA	67321	2198.5	
		3	NA				
	High Range ³	5	NA	NA	67311	2197.5	
	High Range ³						



Band 71

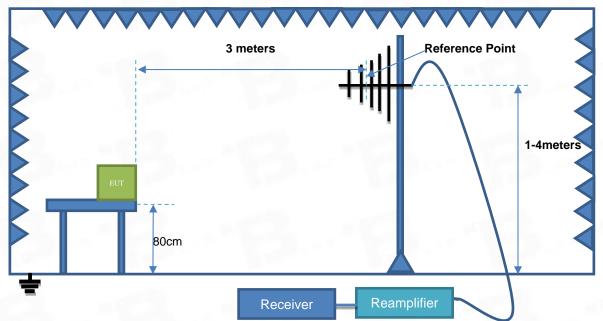
Table 4.3.1.1.71-1: Test frequencies for E-UTRA channel bandwidth for operating band 71 Test Frequency ID Bandwidth Frequency ID Bandwidth

Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Downlink [MHz]
	5	133147	665.5	68611	619.5
Low Dongo	10	133172	668	68636	622
Low Range	15	133197	670.5	68661	624.5
	20	133222	673	68686	627
Mid Dongo	5/10/15	133297	680.5	68761	634.5
Mid Range	20	133322	683	68786	637
	5	133447	695.5	68911	649.5
Llink Danas	10	133422	693	68886	647
High Range	15	133397	690.5	68861	644.5
	20	133372	688	68836	642

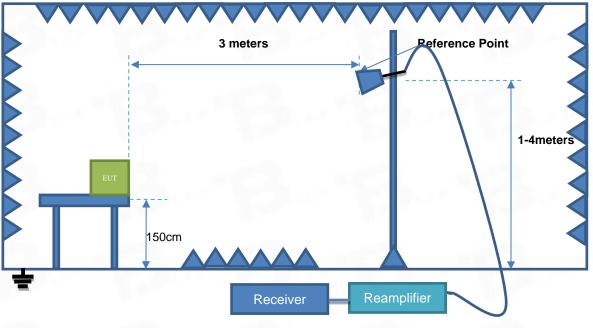


4.5 Test Setup

Test Setup 1



Radiation Test (30MHz - 1GHz)

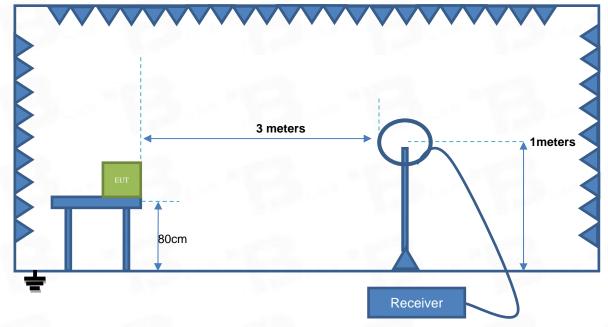


Radiation Test (Above 1GHz)

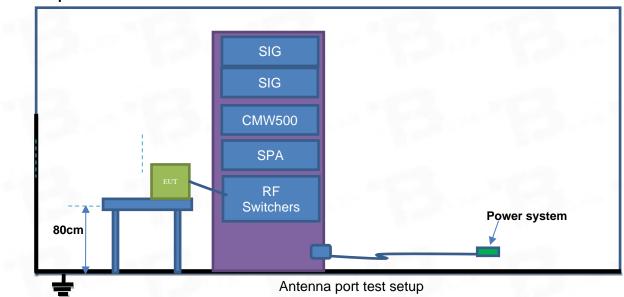
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Test Setup 2



Radiation Test (9k - 30MHz)



Test Setup 3

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5. Test Items

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 90.635(b) & 90.542(a); RSS-103 4.6; RSS-132 5.4, RSS-133 6.4, RSS-139 6.5, RSS199 4.4

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

5.1.2 Test Setup



The section 4.4 test setup 4 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure <u>Description of the Conducted Output Power Measurement</u>

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm; Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm; Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 dBm

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is: ERP/EIRP = PMeas + GT - LC



where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW; GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP); dBd (ERP)=dBi (EIRP) -2.15 dB LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when PMeas value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

EIRP for GSM1900 = 30.2 dBm - 3.4 dBi - 0.6 dB = 26.2 dBm

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is: ERP (dBm) = 21dBm + 8dB = 29dBm

5.1.4 Test Result

Refer to appendix report.



5.2 Field Strength of Spurious Radiation

5.2.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(m) & 90.691& 90.543 ; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P) dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4), RSS-139 6.6

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log (P) dB$ on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c), RSS-139 6.6

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of



measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f), RSS-139 6.6

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g), RSS-139 6.6

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10*log(P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB. FCC § 27.53(m) (4) For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

• 40+10logP dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.

• 43+10logP dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,

• 55+10logP dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80



decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
 - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
 - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

5.2.2 Test Setup

The section 4.5 test setup 4 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.

2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.

3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.



4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.

The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter 5. under test.

6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.

The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected 7. by the measuring receiver.

The test antenna shall be raised and lowered again through the specified range of height until the maximum 8. signal level is detected by the measuring receiver.

The maximum signal level detected by the measuring receiver shall be noted. 9.

The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected 10. to a signal generator.

11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.

12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.

13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is: ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP(dBm) = 21dBm + 8dB = 29dBm

5.2.4 Test Result

Please refer to ANNEX A.7

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2G Part

Note:1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

2.All mode are tested, and the report only shows the worst mode of GSM(Voice) .

Bai	nd: G	SM850	fest annel:	Lowest	Test mode:	GSM	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1648.400	-43.09	-31.55	-74.64	-13.00	-61.64	peak	Р
2	2472.600	-38.13	-30.46	-68.59	-13.00	-55.59	peak	Р
3	3296,800	-34.12	-29.30	-63.42	-13.00	-50.42	peak	Р

Bar	nd:	GSM850	Test annel:	Lowest	Test mode:	GSM	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1648.400	-44.44	-31.55	-75.99	-13.00	-62.99	peak	Р
2	2472.600	-38.58	-30.46	-69.04	-13.00	-56.04	peak	Р
-	3296.800	-34.43	-29.30	-63.73	-13.00	-50.73	peak	P

Bar	nd:	GSM850		Cest nnel:	Middle	Test mode:	GSM	Polarization:	
No.	Frequen (MHz)		ling Bm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.20	0 -43	.95	-31.44	-75.39	-13.00	-62.39	peak	Р
2	2509.80	-38	.99	-30.35	-69.34	-13.00	-56.34	peak	Р
	3346.40	0 34	.98	-29.19	-64.17	-13.00	-51.17	peak	Р

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Bar	nd: GS	SM850	Cest Annel:	Middle	Test mode:	GSM	Polarization:	-
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.200	-44.02	-31.44	-75.46	-13.00	-62.46	peak	Ρ
2	2509.800	-38.16	-30.35	-68.51	-13.00	-55.51	peak	P
3	3346,400	-34.01	-29.19	-63.20	-13.00	-50.20	peak	Р

Bar	nd: GS	SM850	fest annel:	Highest	Test mode:	GSM	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1697.600	-44.60	-31.33	-75.93	-13.00	-62.93	peak	Р
2	2546.400	-39.64	-30.24	-69.88	-13.00	-56.88	peak	Р
3	3395,200	-35.63	-29.08	-64.71	-13.00	-51,71	peak	Р

Bai	nd:	GSM850	Test channel: Highest		Highest	Test mode:	GSM	Polarization:	v	
No.	Frequen (MHz)		ing m)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	1697.60	0 -43	34	-31.33	-74.67	-13.00	-61.67	peak	Р	
2	2546.40	0 -37	48	-30.24	-67.72	-13.00	-54.72	peak	Ρ	
3	3395.20	0 -33	33	-29.08	-62.41	-13.00	-49.41	peak	Р	



Band:		GSM1900	00 Test channel:		Lowest		GSM	Polarization:	H	
No.	Frequer (MHz	Sector Contractor	ding Bm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	3700.40	-34	1.67	-29.14	-63.81	-13.00	-50.81	peak	P	
2	5550.60	00 -33	8.89	-26.61	-60.50	-13.00	-47.50	peak	Р	
3	7400.80	00 -30	0.20	-24.92	-55.12	-13.00	-42.12	peak	Р	

Bai	Band: GS		GSM1900 Test channel		Lowest		GSM	Polarization:	V	
No.	Frequen (MHz)			Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	3700.40	-35.	30	-29.14	-64.44	-13.00	-51.44	peak	Р	
2	5550.60	0 -33.	04	-26.61	-59.65	-13.00	-46.65	peak	Р	
3	7400.80	0 -30.	12	-24.92	-55.04	-13.00	-42.04	peak	Р	

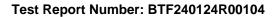
Band: GS		GSM1900	Test channel:		Middle		GSM	Polarization:	H	
No.	Frequenc (MHz)	y Read		Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	3760.000	-35.	53	-29.03	-64.56	-13.00	-51.56	peak	P	
2	5640.000	-34.	75	-26.50	-61.25	-13.00	-48.25	peak	P	
3	7520.000	-31.0	06	-24.81	-55.87	-13.00	-42.87	peak	P	



Band:		GSM1900		Test annel:	Middle	Test mode:	GSM	Polarization:	v
No.	Frequen (MHz)		ling Bm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3760.00	00 -34	.88	-29.03	-63.91	-13.00	-50.91	peak	Р
2	5640.00	-32	.62	-26.50	-59.12	-13.00	-46.12	peak	Р
	7520.00	-29	.70	-24.81	-54.51	-13.00	-41.51	peak	Р

Bai	nd:	GSM1900	GSM1900		Test channel:		Highest	Test mode:	GSM	Polarization:	H
No.	Frequen (MHz)			Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F		
1	3819.60	-36.	18	-28.92	-65.10	-13.00	-52.10	peak	Ρ		
2	5729.40	00 -35.	40	-26.39	-61.79	-13.00	-48.79	peak	P		
3	7639.20	00 -31.	71	-24.70	-56.41	-13.00	-43.41	peak	P		

Bar	nd: GS	M1900	Sest	Highest	Test mode:	GSM	Polarization:	/ V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3819.600	-34.20	-28.92	-63.12	-13.00	-50.12	peak	P
2	5729.400	-31.94	-26.39	-58.33	-13.00	-45.33	peak	P
	7639,200	-29.02	-24.70	-53.72	-13.00	-40.72	peak	P





3G Part

Note:1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

2.All mode are tested, and the report only shows the worst mode of RCM

Band:		WCDMA Band II	Test channel:	Lowest	Test mode:	RCM	Polarization:	H	
No.	Frequenc (MHz)	y Read: (dBi				Margin (dB)	Detector	P/F	
1	3704.800	-33.9	93 -29.	14 -63µ07	-13.00	-50.07	peak	Р	
2	5557.200	-33.3	35 -26.	61 -59.96	-13.00	-46.96	peak	Р	
3	7409.600	-29.9	92 -30.	89 -60.81	-13.00	-47.81	peak	Р	

Bai	nd:	WCDMA Band II		nnel:	Lowest	Test mode:	RCM	Polarization:	V
No.	Frequer (MHz)			Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3704.80	00 -35.	30	-29.14	-64.44	-13.00	-51.44	peak	P
2	5557.20	00 -33.	04	-26.61	-59.65	-13.00	-46.65	peak	Ρ
4				the second second second	-61.01	-13.00	-48.01	peak	P

Bar	nd:	WCDMA Band II	Test channel:		Middle	Test mode:	RCM	Polarization:	Н
No.	Frequen (MHz)		ling 3m)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3760.00	.34	.79	-29.03	-63.82	-13.00	-50.82	peak	P
2	5640.00	00 -34	.21	-26.50	-60.71	-13.00	-47.71	peak	P
_		0 -30	.78	-30.78	-61.56	-13.00	-48.56	peak	P

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Band: Ba		WCI Band		Test hannel:	Middle	Test mode:	RCM	Polarization:	1
No.	Frequer (MHz	6 C	Reading (dBm)	g Facto (dB)	r Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3760.0	00	-34.69	-29.03	-63.72	-13.00	-50.72	peak	Р
2	5640.0	00	-26.50	-26.50	-53.00	-13.00	-40.00	peak	Р
3	7520.0	00	-29.69	-30.78	-60.47	-13.00	-47.47	peak	Р

Bar	Band:		WCDMA Test and II channel:		Highest	Test mode:	RCM	Polarization:	Н	
No.	Frequence (MHz)	y Read (dB		Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	3815.20	0 -35.	44	-28.92	-64.36	-13.00	-51.36	peak	Р	
2	5722.80	0 -34.	86	-26.39	-61.25	-13.00	-48.25	peak	Р	
	7630.40	0 -31.	40	-30.67	-62.10	-13.00	-49.10	peak	Р	

Band:		WCDMA Band II	Test channel	Highest		Test mode:	RCM	Polarization:	<u> </u>
No.	Frequenc (MHz)	y Read		tor B)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3815.200	-34.	20 -28	3.92	-63.12	-13.00	-50.12	peak	Р
2	5722.800	-31.	94 -26	6.39	-58.33	-13.00	-45.33	peak	Р
	7630.400) -29.	02 -30	0.67	-59.69	-13.00	-46.69	peak	Р



Bar	nd:	WCDMA Band IV		Cest Annel:	Lowest	Test mode:	RCM	Polarization:	H
No.	Frequer (MHz		ling Sm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3424.8	00 -34	.20	-29.20	-63.40	-13.00	-50.40	peak	P
2	5137.2	00 -31	.78	-27.31	-59.09	-13.00	-46.09	peak	Р
3	6849.6	00 -29	.96	-25.10	-55.06	-13.00	-42.06	peak	P

Bar	nd:	WCDMA Band IV		est nnel:	Lowest	Test mode:	RCM	Polarization:	
No.	Frequer (MHz		ling Bm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margjin (dB)	Detector	P/F
1	3424.8	-33	.25	-29.20	-62.45	-13.00	-49.45	peak	Р
2	5137.2	00 -32	.95	-27.31	-60.26	-13.00	-47.26	peak	P
3	6849.6	00 -32	.32	-25.10	-57.42	-13.00	-44.42	peak	P

Baı	nd:	WCDMA Band IV		est nnel:	Middle	Test mode:	RCM	Polarization:	1
No.	Frequency (MHz)	/ Read: (dBr		Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3465.200	-34.0	69	-29.09	-63.78	-13.00	-50.78	peak	P
2	5197.800	-26.	50	-27.20	-53.70	-13.00	-40.70	peak	Ρ
3	6930.400	-29.0	69	-24.99	-54.68	-13.00	-41.68	peak	P



Ba	nd:	WCDMA Band IV		fest annel:	Middle	Test mode:	RCM	Polarization:	V
No.	Frequer (MHz)		ading IBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3465.20	-3	4.69	-29.09	-63.78	-13.00	-50.78	peak	P
2	5197.80	00 -2	6.50	-27.20	-53.70	-13.00	-40.70	peak	Р
	6930.40	10 .2	9.69	-24.99	+54.68	-13.00	-41.68	peak	Р

Bar	Band: WCDMA Test Band IV channel			Highest	Test mode:	RCM	Polarization:		
No.	Frequen (MHz)			Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3505.20	0 -35.	71	-28.98	-64.69	-13.00	-51.69	peak	Ρ
2	5257.80	0 -33.	29	-27.09	-60.38	-13.00	-47.38	peak	Р
3	7010.40	0 -31.	47	-24.88	-56.35	-13.00	-43.35	peak	P

Ban	nd:	WCDMA Band IV		est nnel:	Highest	Test mode:	RCM	Polarization:	,
No.	Frequenc (MHz)	y Read (dB	1.1	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3505.200	-32.	15	-28.98	-61.13	-13.00	-48.13	peak	P
2	5257.800	-31.	85	-27.09	-58.94	-13.00	-45.94	peak	P
3	7010,400	-31.	22	-24.88	-56.10	-13.00	-43.10	peak	P



Bai	nd:	WCDMA Band V	Test channel:	Lowest	Test mode:	RCM	Polarization:	I
No.	Frequency (MHz)	Readin (dBm)		Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1652.800	-44.3	9 -31.55	-75.94	-13.00	-62.94	peak	Р
2	2479.200	-38.49	9 -30.46	-68.95	-13.00	-55.95	peak	Р
3	3305,600	-34.92	2 -29.30	-64.22	-13.00	-51.22	peak	P

Ba	nd:		fest annel:	Lowest	Test mode:	RCM	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1652.800	-45.36	-31.55	-76.91	-13.00	-63.91	peak	Р
2	2479.200	-40.52	-30.46	-70.98	-13.00	-57.98	peak	Р
3	3305.600	-36.57	-29.30	-65.87	-13.00	-52.87	peak	P

Ba	nd:	WCDMA Band V		`est innel:	Middle	Test mode:	RCM	Polarization:	H
No.	Frequenc (MHz)	y Read		Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.200	-45.	25	-31.44	-76.69	-13.00	-63.69	peak	P
2	2509.800	-39.	35	-30.35	-69.70	-13.00	-56.70	peak	P
3	3346.400	-35.	78	-29.19	-64.97	-13.00	-51.97	peak	P



Bai	nd:	WCDMA Band V		est nnel:	Middle	Test mode:	RCM	Polarization:	V
No.	Frequenc (MHz)	y Read		Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.200	-34.	69	-31.44	-66.13	-13.00	-53.13	peak	Р
2	2509.800	-26.	50	-30.35	-56.85	-13.00	-43.85	peak	Р
3	3346.400	-29.	69	-29.19	-58.88	-13.00	-45.88	peak	Р

Bar	Band:		WCDMA Test Band V channel:		Highest Test mode:		RCM	Polarization:	H	
No.	Frequer (MHz)	10.00	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	1693.20	00	-45.90	-31.33	-77.23	-13.00	-64.23	peak	Р	
2	2539.80	00	-40.00	-30.24	-70.24	-13.00	-57.24	peak	Р	
3	3386.40	00	-36.43	-29.08	-65.51	-13.00	-52.51	peak	Р	

Ban	d.		est nnel:	Highest	Test mode:	RCM	Polarization:	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	c Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1693.200	-44.26	-31.33	-75.59	-13.00	-62.59	peak	Р
2	2539.800	-39.42	-30.24	-69.66	-13.00	-56.66	peak	Р
3	3386,400	-35.47	-29.08	-64.55	-13.00	-51.55	peak	P



4G Part

Note: 1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

2.All mode are tested, and the report only shows the worst mode of GPSK & maximum bandwidth

Ba	nd:	2	fest annel:	Lowest	Test mode:	20M	Polarization:	E
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3701.400	-34.58	-29.14	-63.72	-13.00	-50.72	peak	Р
2	5552.100	-31.74	-26.61	-58.35	-13.00	-45.35	peak	Р
	7402.800	-28.79	-24.92	-53.71	-13.00	-40.71	peak	P

Bai	nd:	2	fest annel:	Lowest	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3701.400	-34.82	-29.14	-63.96	-13.00	-50.96	peak	P
2	5552.100	-33.91	-26.61	-60.52	-13.00	-47.52	peak	Р
	7402.800	-31.74	-24.92	-56.66	-13.00	-43.66	peak	P

Bar	nd:	2	Cest nnel:	Middle	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3760.000	-35.44	-29.03	-64.47	-13.00	-51.47	peak	Р
2	5640.000	-32.60	-26.50	-59.10	-13.00	-46.10	peak	Ρ
	7520.000	-29.65	-24.81	-54.46	-13.00	-41.46	peak	P

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Bar	nd:	2		fest annel:	Middle	Test mode:	20M	Polarization:	V
No.	Frequen (MHz)		ling Sm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3760.00	0 -34	.69	-29.03	-63.72	-13.00	-50.72	peak	Р
2	5640.00	0 -26	.50	-26.50	-53.00	-13.00	-40.00	peak	Р
3	7520.00	0 -29	69	-24.81	-54.50	-13.00	-41.50	peak	Р

Bar	nd:	2	`est unnel:	Highest	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3818.600	-36.09	-28.92	-65.01	-13.00	-52.01	peak	Р
2	5727.900	-33.25	-26.39	-59.64	-13.00	-46.64	peak	Ρ
		-30,30	-24.70	-55.00	-13.00	-42.00	peak	Р

Bar	nd:	2	fest annel:	Highest	Test mode:	20M	Polarization:	<u> </u>
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3818.600	-33.72	-28.92	-62.64	-13.00	-49.64	peak	Ρ
2	5727.900	-32.81	-26.39	-59.20	-13.00	-46.20	peak	Ρ
3	7637.200	-30.64	-24.70	-55.34	-13.00	-42.34	peak	P



Ва	nd:	4 cl	Test hannel:	Lowest	Test mode:	20M	Polarization:	I
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3435.000	-33.60	-29.20	-62.80	-13.00	-49.80	peak	P
2	5152.500	-31.65	-27.31	-58.96	-13.00	-45.96	peak	P
	6870.000	-28.94	-25.10	-54.04	-13.00	-41.04	peak	P

Bai	nd:	4	Cest Annel:	Lowest	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3435.000	-35.66	-29.20	-64.86	-13.00	-51.86	peak	Р
2	5152.500	-32.45	-27.31	-59.76	-13.00	-46.76	peak	Ρ
3	6870.000	-26.17	-25.10	-51.27	-13.00	-38.27	peak	Р

Bai	nd:	4	fest annel:	Middle	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3465.000	-34.46	-29.09	-63.55	-13.00	-50.55	peak	P
2	5197.500	-32.51	-27.20	-59.71	-13.00	-46.71	peak	Р
3	6930.000	-29.80	-24.99	-54.79	-13.00	-41.79	peak	P



Bai	nd:	4	fest annel:	Middle	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3465.000	-34.69	-29.09	-63.78	-13.00	-50.78	peak	Р
2	5197.500	-26.50	-27.20	-53.70	-13.00	-40.70	peak	Р
3	6930.000	-29.69	-24.99	-54.68	-13.00	-41.68	peak	Р

Bar	nd:	4	fest annel:	Highest	Test mode:	20M	Polarization:	I
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3495.000	-35.11	-28.98	-64.09	-13.00	-51.09	peak	Р
2	5242.500	-33.16	-27.09	-60.25	-13.00	-47.25	peak	Р
	6990.000	-30.45	-24.88	-55.33	-13.00	-42.33	peak	Р

Bar	nd:	4	Cest annel:	Highest	Test mode:	20M	Polarization:	,
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3495.000	-34.56	-28.98	-63.54	-13.00	-50.54	peak	P
2	5242.500	-31.35	-27.09	-58.44	-13.00	-45.44	peak	Р
	6990.000	-25.07	-24.88	-49.95	-13.00	-36.95	peak	Р



Ва	nd:	5 c	Test channel:	Lowest	Test mode:	10M	Polarization:	Н
No.	Frequency (MHz)	Reading (dBm)	g Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1649.400	-43.24	-31.55	-74.79	-13.00	-61.79	peak	Р
2	2474.100	-39.15	-30.46	-69.61	-13.00	-56.61	peak	Р
	3298,800	-35.86	-29.30	-65.16	-13.00	-52.16	peak	Р

Bar	nd:	5	est nnel:	Lowest	Test mode:	10M	Polarization:	1
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1649.400	-44.04	-31.55	-75.59	-13.00	-62.59	peak	Р
2	2474.100	-39.74	-30.46	-70.20	-13.00	-57.20	peak	Ρ
-	3298.800	-35.33	-29.30	-64.63	-13.00	-51.63	peak	P

Bai	nd:	b	Test annel:	Middle	Test mode:	10M	Polarization:	I
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.000	-44.10	-31.44	-75.54	-13.00	-62.54	peak	P
2	2509.500	-40.01	-30.35	-70.36	-13.00	-57.36	peak	P
	3346,000	-36.72	-29.19	-65.91	-13.00	-52.91	peak	P



Bai	nd:	5	Test channel:	Middle	Test mode:	10M	Polarization:	V
No.	Frequency (MHz)	y Readi (dBm		c Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.000	-34.6	9 -31.44	-66.13	-13.00	-53.13	peak	Р
2	2509.500	-26.5	0 -30.35	-56.85	-13.00	-43.85	peak	Р
	3346.000	-29.6	9 -29,19	-58.88	-13.00	-45.88	peak	Р

Bai	nd:	5	Cest nnel:	Highest	Test mode:	10M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1696.600	-44.75	-31.33	-76.08	-13.00	-63.08	peak	Р
2	2544.900	-40.66	-30.24	-70.90	-13.00	-57.90	peak	Р
3	3393,200	-37.37	-29.08	-66.45	-13.00	-53.45	peak	Р

Band:		5		`est .nnel:	Highest	Test mode	20	DM I	Polarization:	
N	io.	Frequ (MF	1000	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
12	1	1696	.600	-42.94	-31.33	-74.27	-13.00	-61.27	peak	Р
52	2	2544	.900	-38.64	-30.24	-68.88	-13.00	-55.88	peak	Р
	3	3393	.200	-34.23	-29.08	-63.31	-13.00	-50.31	peak	Р



Ba	nd:	12	fest annel:	Lowest	Test mode:	10M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1415.000	-43.22	-31.36	-74.58	-13.00	-61.58	peak	Р
2	2122.500	-42.47	-30.90	-73.37	-13.00	-60.37	peak	Р
3	2830.000	-37.16	-29.91	-67.07	-13.00	-54.07	peak	P

Bar	nd:	12 cł	Test annel:	Lowest	Test mode:	10M	Polarization:	1
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1415.000	-44.09	-31.36	-75.45	-13.00	-62.45	peak	Р
2	2122.500	-41.51	-30.90	-72.41	-13.00	-59.41	peak	Р
_	2830.000	-37.80	-29.91	-67.71	-13.00	-54.71	peak	P

Bar	nd:	12	fest annel:	Middle	Test mode:	10M	Polarization:	1
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1430.600	-44.08	-31.25	-75.33	-13.00	-62.33	peak	P
2	2145.900	-43.33	-30.79	-74.12	-13.00	-61.12	peak	P
	2861,200	-38.02	-29.80	-67.82	-13.00	-54.82	peak	P



Bai	nd:	12	Test annel:	Middle	Test mode:	10M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1430.600	-34.69	-31.25	-65.94	-13.00	-52.94	peak	Р
0	2145.900	-26.50	-30.79	-57.29	-13.00	-44.29	peak	Р
2			-29.80	-59.49	-13.00	-46.49	peak	Р

Bar	id:	12	Test annel:	Highest	Test mode:	10M	Polarization:	ŀ
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1559.000	-44.73	-31.14	-75.87	-13.00	-62.87	peak	Р
2	2338.500	-43.98	-30.68	-74.66	-13.00	-61.66	peak	Р
	3118,000	-38.67	-29.69	-68.36	-13.00	-55.36	peak	P

Bar	nd:	12	fest annel:	Highest	Test mode:	10M	Polarization:	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1559.000	-42.99	-31.14	-74.13	-13.00	-61.13	peak	Р
2	2338.500	-40.41	-30.68	-71.09	-13.00	-58.09	peak	Р
	3118.000	-36,70	-29.69	-66.39	-13.00	-53.39	peak	Р



Bai	nd:	13	Test annel:	Lowest	Test mode:	10M	Polarization:	Н
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1559.000	-34.69	-31.25	-65.94	-40.00	-25.94	peak	Р
2	2338.500	-26.50	-30.79	-57.29	-13.00	-44.29	peak	Р
	3118.000	-29.69	-29.80	-59.49	-13.00	-46.49	peak	Р

Bar	nd:	13	fest annel:	Lowest	Test mode:	10M	Polarization:	l l
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1559.000	-34.69	-31.25	-65.94	-40.00	-25.94	peak	Р
2	2338.500	-26.50	-30.79	-57.29	-13.00	-44.29	peak	Р
4		-29.69	-29.80	-59.49	-13.00	-46.49	peak	Р

Bar	nd:	13	fest annel:	Middle	Test mode:	10M	Polarization:	1
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1564.000	-35.64	-31.15	-66.79	-40.00	-26.79	peak	Ρ
2	2346.000	-27.45	-30.69	-58.14	-13.00	-45.14	peak	P
3	3128.000	-30.64	-29.70	-60.34	-13.00	-47.34	peak	P



Ba	nd:	13	Test annel:	Middle	Test mode:	10M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1564.000	-35.20	-31.15	-66.35	-40.00	-26.35	peak	Р
2	2346.000	-27.01	-30.69	-57.70	-13.00	-44.70	peak	P
3	3128.000	-30.20	-29.70	-59.90	-13.00	-46.90	peak	Р

Bar	nd:	13	Test channel:	Highest	Test mode:	10M	Polarization:	I
No.	Frequency (MHz)	y Readir (dBm)		r Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1569.000	-35.89	-31.05	-66.94	-40.00	-26.94	peak	Ρ
2	2353.500	-27.70	-30.59	-58.29	-13.00	-45.29	peak	Ρ
	3138.000	-30.89	-29.60	-60.49	-13.00	-47.49	peak	P

Band:		13 c	Test hannel:	Highest	Test mode:	10M	Polarization:	
No.	Frequency (MHz)	Reading (dBm)	g Factor (dB)	: Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1569.000	-35.55	-31.05	-66.60	-40.00	-26.60	peak	P
2	2353.500	-27.36	-30.59	-57.95	-13.00	-44.95	peak	Ρ
-		-30.55	-29.60	-60.15	-13.00	-47.15	peak	P



Bar	nd:	17	Test channel:	Lowest	Test mode:	10M	Polarization:	
No.	Frequency (MHz)	/ Readi (dBm		r Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1413.000	-43.5	4 -31.38	-74.92	-13.00	-61.92	peak	Ρ
2	2119.500	-40.3	0 -30.90	-71.20	-13.00	-58.20	peak	P
	2826.000	-36.5	2 -29.90	-66.42	-13.00	-53.42	peak	Р

Bai	nd:	17	fest annel:	Lowest	Test mode:	10M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1413.000	-44.19	-31.38	-75.57	-13.00	-62.57	peak	Р
2	2119.500	-43.67	-18.05	-61.72	-13.00	-48.72	peak	Р
3	2826.000	-37.98	-17.14	-55.12	-13.00	-42.12	peak	Р

Band:		17	Sest Middle		Test mode:	10M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1361.000	-44.40	-31.27	-75.67	-13.00	-62.67	peak	P
2	2041.500	-41.16	-30.79	-71.95	-13.00	-58.95	peak	Р
3	2722.000	-37.38	-29.79	-67.17	-13.00	-54.17	peak	Р



Band:		17	7 Test channel:		Middle	Test mode:	10M	Polarization:	V	
No.	Frequen (MHz)		Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	1361.00	0	-43.77	-31.27	-75.04	-13.00	-62.04	peak	P	
2	2041.50	0	-43.25	-17.94	-61.19	-13.00	-48.19	peak	P	
3	2722.00	0	-37.56	-17.03	-54.59	-13.00	-41.59	peak	P	

Bar	nd:	17	Test channel:	Highest	Test mode:	10M	Polarization:	ŀ
No.	Frequency (MHz)	Readi (dBm		r Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1371.000	-45.0	-31.16	-76.21	-13.00	-63.21	peak	Р
2	2056.500	-41.8	1 -30.68	-72.49	-13.00	-59.49	peak	Р
2				-67.71	-13.00	-54.71	peak	Р

Bar	nd:	17	fest annel:	Highest	Test mode:	10M	Polarization:	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1371.000	-43.09	-31.16	-74.25	-13.00	-61.25	peak	P
2	2056.500	-42.57	-17.83	-60.40	-13.00	-47.40	peak	P
3	2742.000	-36.88	-29.68	-66.56	-13.00	-53.56	peak	Р



Bai	nd:	66 c	Test channel:	Lowest	Test mode:	20M	Polarization:	
No.	Frequency (MHz)	Readin (dBm)	g Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3421.400	-34.53	-29.17	-63.70	-13.00	-50.70	peak	Р
2	5132.100	-32.12	-27.28	-59.40	-13.00	-46.40	peak	P
	6842.800	-29.56	-25.06	-54.62	-13.00	-41.62	peak	Р

Bai	nd:	66	Test annel:	Lowest	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3421.400	-35.69	-29.17	-64.86	-13.00	-51.86	peak	Р
2	5132.100	-32.14	-18.05	}50.19	-13.00	-37.19	peak	Р
_	6842.800	-22.28	-17.14	-39.42	-13.00	-26.42	peak	Р

Bar	nd:	66	Cest nnel:	Middle	Test mode:	20M	Polarization:	F
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3490.000	-35.39	-29.06	-64.45	-13.00	-51.45	peak	Р
2	5235.000	-32.98	-27.17	-60.15	-13.00	-47.15	peak	Р
3	6980.000	-30.42	-24.95	-55.37	-13.00	-42.37	peak	Ρ



Ba	nd:	66	Test channel:	Middle	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Readin (dBm)	Contraction of the second	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3490.000	-35.27	-29.06	-64.33	-13.00	-51.33	peak	Ρ
2	5235.000	-31.72	-17.94	-49.66	-13.00	-36.66	peak	P
3	6980,000	-21.86	-17.03	-38.89	-13.00	-25.89	peak	Р

Bar	nd:	66	fest annel:	Highest	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3558.600	-36.04	-28.95	-64.99	-13.00	-51.99	peak	Р
2	5337.900	-33.63	-27.06	-60.69	-13.00	-47.69	peak	Р
	7117,200	-31.07	-24.84	-55.91	-13.00	-42.91	peak	Р

Bai	nd:	66	Test annel:	Highest	Test mode:	20M	Polarization:	·
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3558.600	-34.59	-28.95	-63.54	-13.00	-50.54	peak	Р
2	5337.900	-31.04	-17.83	-48.87	-13.00	-35.87	peak	Р
3	7117.200	-21.18	-24.84	-46.02	-13.00	-33.02	peak	P



Bar	nd:	71	Test annel:	Lowest	Test mode:	20M	Polarization:	
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1331.000	-44.52	-31.06	-75.58	-13.00	-62.58	peak	P
2	1996.500	-42.75	-30.99	-73.74	-13.00	-60.74	peak	Ρ
4	2662.000	-37.26	-30.10	-67.36	-13.00	-54.36	peak	P

Bai	nd:	71	fest annel:	Lowest	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1331.000	-45.44	-31.06	-76.50	-13.00	-63.50	peak	Р
2	1996.500	-38.36	-18.05	-56.41	-13.00	-43.41	peak	Р
	2662.000	-35.22	-17.14	-52.36	-13.00	-39.36	peak	Р

Bai	nd:	71	fest annel:	Middle	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1361.000	-45.38	-30.95	-76.33	-13.00	-63.33	peak	Р
2	2041.500	-43.61	-30.88	-74.49	-13.00	-61.49	peak	Р
3	2722.000	-38.12	-29.99	-68.11	-13.00	-55.11	peak	Р



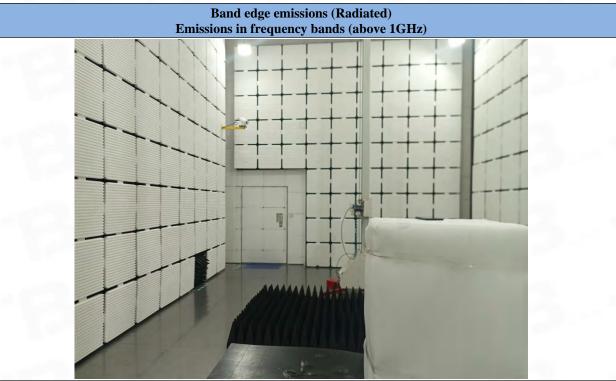
Bar	nd:	71 cł	Test nannel:	Middle	Test mode:	20M	Polarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1361.000	-45.02	-30.95	-75.97	-13.00	-62.97	peak	Ρ
2	2041.500	-37.94	-17.94	-55.88	-13.00	-42.88	peak	Р
3	2722.000	-34.80	-17.03	-51.83	-13.00	-38.83	peak	P

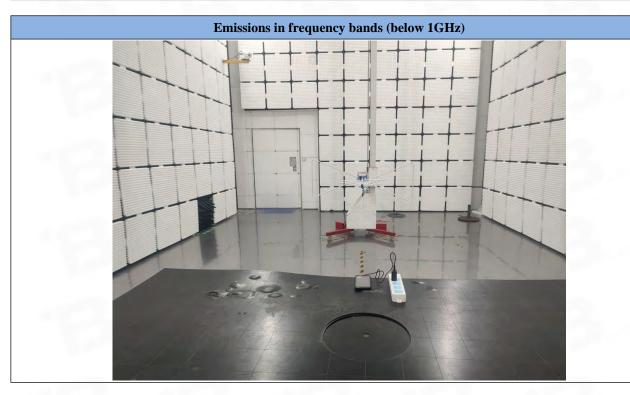
Bar	nd:	71	Test annel:	Highest	Test mode:	20M	Polarization:	H
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1371.000	-46.03	F30.84	-76.87	-13.00	-63.87	peak	Р
2	2056.500	-44.26	-30.77	-75.03	-13.00	-62.03	peak	Р
3	2742.000	-38.77	-29.88	-68.65	-13.00	-55.65	peak	Р

Bar	nd:	71	Test channel:	Highest	Test mode:	20M	Polarization:	'
No.	Frequency (MHz)	Readin (dBm)		r Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1371.000	-44.34	-30.84	-75.18	-13.00	-62.18	peak	P
2	2056.500	-37.26	-17.83	-55.09	-13.00	-42.09	peak	Ρ
3	2742.000	-34.12	-29.88	-64.00	-13.00	-51.00	peak	P



ANNEX B TEST SETUP PHOTOS





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ANNEX C EUT PHOTOS

Please refer to the test report NO. BTF240124R00101





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--END OF REPORT--