

FCC RADIO TEST REPORT

FCC ID: ZSW-30-085

Product: Mobile Phone

Trade Mark: Bmobile

Model No.: AX1080

Family Model: N/A

Report No.: S19012403603004

Issue Date: 10 May. 2019

Prepared for

b mobile HK Limited

Flat 18; 14/F Block 1; Golden Industrial Building; 16-26 KwaiTak Street;
Kwai Chung; New Territories; Hong Kong, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung;New Territories; Hong Kong, China
Manufacturer's Name	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung;New Territories; Hong Kong, China
Product description	
Product name	Mobile Phone
Model and/or type reference	AX1080
Family Model	N/A

Measurement Procedure Used:

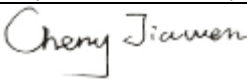
APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
47 CFR Part 2, Part 22H, Part 24E, Part 27L ANSI/TIA-603-E-2016 FCC KDB 971168 D01 Power Meas License Digital Systems v03 ANSI C63.26:2015	Complied

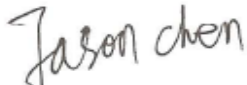
This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

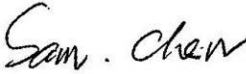
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The test results of this report relate only to the tested sample identified in this report.

Date of Test : Jan. 26, 2019 ~ Mar. 26, 2019

Testing Engineer : 
(Cheng Jiawen)

Technical Manager : 
(Jason Chen)

Authorized Signatory : 
(Sam Chen)

2 SUMMARY OF TEST RESULTS
**FCC Part22, Subpart H/ FCC Part24, Subpart E, FCC Part27, Subpart L,
KDB 971168 D01 Power Meas License Digital Systems v03**

FCC Rule	Test Item	Verdict	Remark
2.1046	Conducted Output Power	PASS	
24.232(d) KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS	
2.1049 22.917(b) 24.238(b) KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS	
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Band Edge	PASS	
22.913(a)(2) KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS	
24.232(c) KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS	
2.1053 22.917(a) 24.238(a) KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS	
2.1055 22.355 24.235 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS	
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Conducted Emission	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. No modifications are made to the EUT during all test items.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

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

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5dB

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Mobile Phone
Trade Mark	Bmobile
FCC ID	ZSW-30-085
Model No.	AX1080
Family Model	N/A
Model Difference	N/A
Operating Frequency	☒ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; ☒ UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; ☒ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; ☒ UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; ☒ UMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz
Modulation	☒ GMSK for GSM/GPRS; ☒ 8PSK for EGPRS; ☒ QPSK for UMTS bands;
GPRS Class	☒ Multi-Class12 ☒ Only 4 timeslots are used for GPRS
SIM CARD	The Equipment has one SIM Card socket
Antenna Type	PIFA Antenna
Antenna Gain	-1dBi
Power supply	☒ DC supply: DC 3.8V/2000mAh from Battery or DC 5V from USB Port.
	☒ Adapter supply: Input: 100-240V~50-60Hz 0.2A Output: 5V---1A
HW Version	S130TF_MMI_V00
SW Version	Bmobile_AX1080_OM_V005_20190514

Note: 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. The High Voltage 4.4V and Low Voltage 3.2V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

Revision History

[illegible]

5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on all frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, WCDMA/HSDPA/HSUPA band II, WCDMA/HSDPA/HSUPA band V, HSDPA band IV, HSUPA band IV modes have been tested during the test. the worst condition (GSM850, GSM1900, RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V/ UMTS FDD Band IV.
2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	For Conducted Test Cases	For Radiated Test Cases
GSM 850	GSM Link	GSM Link
GSM 1900	GSM Link	GSM Link
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link

Test Frequency and Channels:

Frequency Band	☒ GSM 850		☒ GSM 1900		☒ UMTS Band II		☒ UMTS Band V	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	190	836.6	661	1880.0	9400	1880.0	4183	836.6
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

Frequency Band	☒ UMTS Band IV	
	Channel	Frequency (MHz)
CH_H	1513	1752.6
CH_M	1412	1732.6
CH_L	1312	1712.4

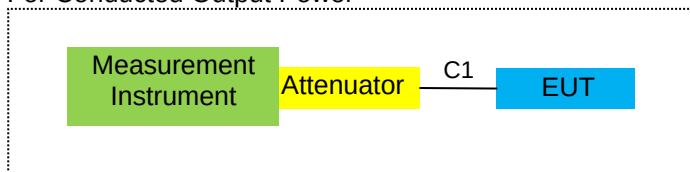
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

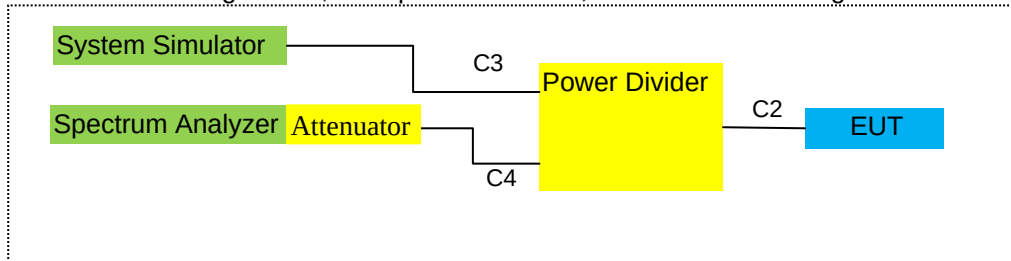
For Radiated Test Cases



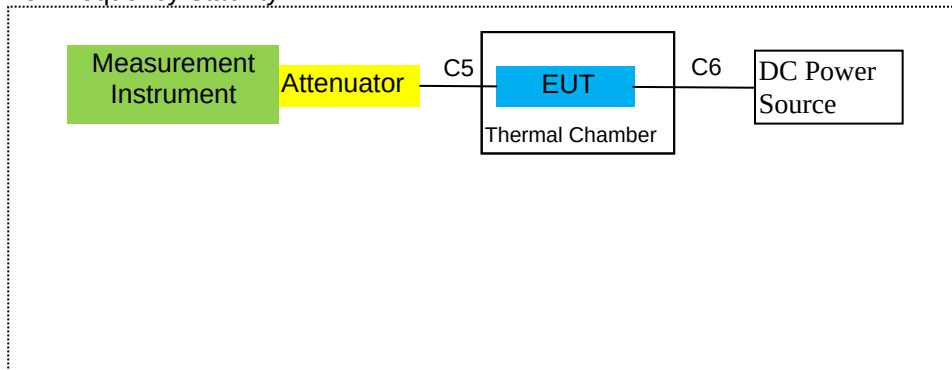
For Conducted Output Power



For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



6.2 SUPPORT EQUIPMENT

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	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (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 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
2	Test Receiver	R&S	ESPI	101318	2018.05.19	2019.05.18	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2019.05.18	1 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2018.05.19	2019.05.18	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2018.04.08	2019.04.07	1 year
7	Amplifier	EM	EM-30180	060538	2018.08.05	2019.08.04	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2018.05.19	2019.05.18	1 year
9	Power Meter	R&S	NRVS	100696	2018.08.05	2019.08.04	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2018.05.19	2019.05.18	1 year
11	Test Cable	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
15	LISN	R&S	ENV216	101313	2018.04.19	2019.04.18	1 year
16	LISN	EMCO	3816/2	00042990	2018.05.19	2019.05.18	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2018.05.19	2019.05.18	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2017.04.21	2020.04.20	3 year
19	Test Cable	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
20	Test Cable	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
21	Test Cable	N/A	C03	N/A	2018.04.19	2019.04.18	1 year
22	Attenuator	MCE	24-10-34	BN9258	2018.04.08	2019.04.07	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2018.05.19	2019.05.18	1 year
24	test receiver	R&S	ESCI	a0304218	2018.05.19	2019.05.18	1 year
25	Communication Tester	R&S	CMU200	A0304247	2018.10.08	2019.10.07	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2018.05.19	2019.05.18	1 year
27	DC Power Source	N/A	PS-6005D	20170402923	2017.06.06	2020.06.05	3 year

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

7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

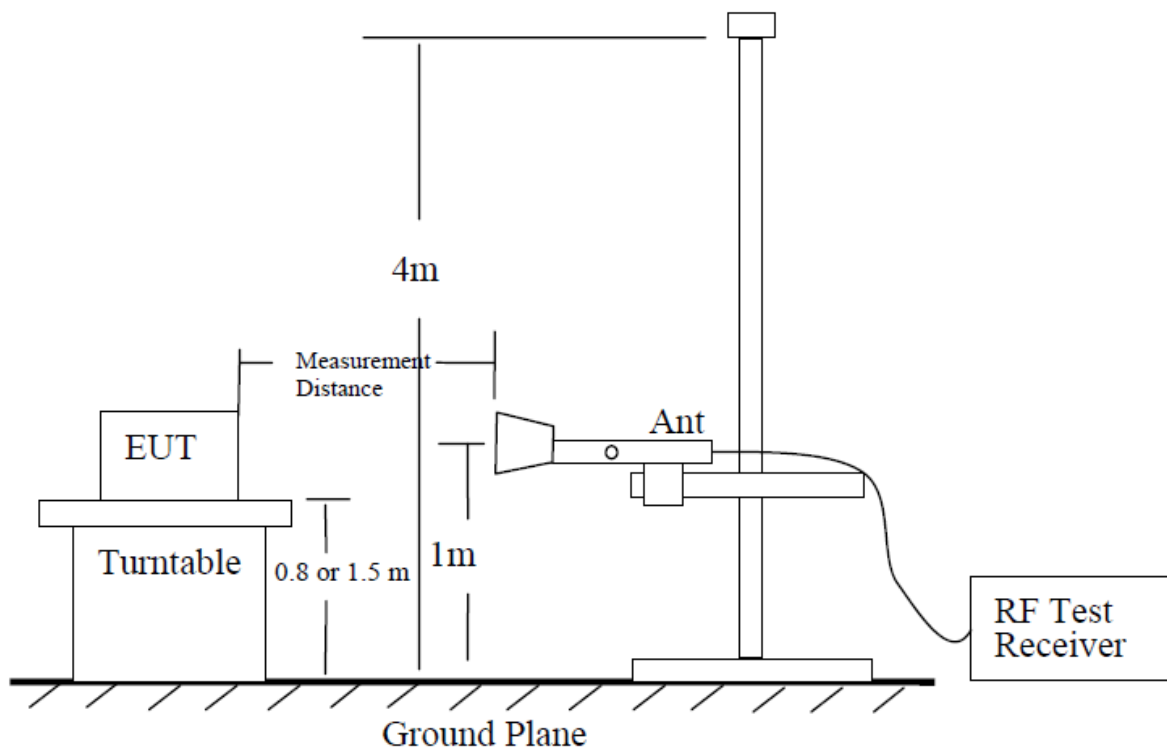
7.1.3 Measuring Instruments

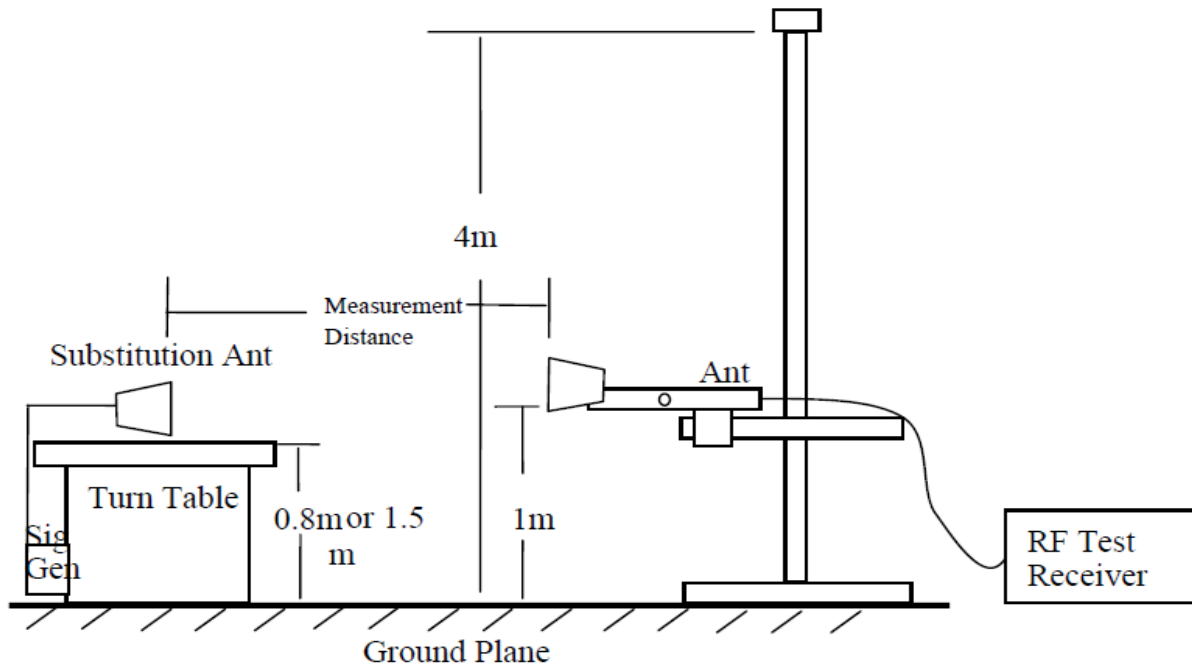
The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / WCDMA Band V / GSM 850 / GSM 1900.

TEST CONFIGURATION





7.1.5 Test Procedure

1. EUT was placed on a 0.8 meter (For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss), the Substitution Antenna Gain should be recorded after test.
The measurement results are obtained as described below:
 $\text{Power(EIRP)} = \text{SG Level} - \text{Cable Loss} + \text{Antenna Gain}$
6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
7. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

7.1.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen

■ Radiated Spurious Emission

GSM 850							
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 128/824.2 MHz							
1648.4	-49.56	2.80	27.50	-24.86	-13	-11.86	Vertical
1648.4	-46.53	2.80	27.50	-21.83	-13	-8.83	Horizontal
2472.6	-47.95	2.91	27.80	-23.06	-13	-10.06	Vertical
2472.6	-50.36	2.91	27.80	-25.47	-13	-12.47	Horizontal
3296.8	-47.28	4.02	29.87	-21.43	-13	-8.43	Vertical
3296.8	-49.96	4.02	29.87	-24.11	-13	-11.11	Horizontal
Test Results for Channel 190/836.6 MHz							
1673.2	-45.21	2.80	27.48	-20.53	-13	-7.53	Vertical
1673.2	-45.85	2.80	27.48	-21.17	-13	-8.17	Horizontal
2509.8	-51.81	2.91	27.70	-27.02	-13	-14.02	Vertical
2509.8	-50.07	2.91	27.70	-25.28	-13	-12.28	Horizontal
3346.4	-47.27	4.02	29.82	-21.47	-13	-8.47	Vertical
3346.4	-50.93	4.02	29.82	-25.13	-13	-12.13	Horizontal
Test Results for Channel 251/848.8 MHz							
1697.6	-48.06	2.80	27.42	-23.44	-13	-10.44	Vertical
1697.6	-48.59	2.80	27.42	-23.97	-13	-10.97	Horizontal
2546.4	-51.51	2.91	27.68	-26.74	-13	-13.74	Vertical
2546.4	-45.17	2.91	27.68	-20.40	-13	-7.40	Horizontal
3395.2	-44.87	4.02	29.80	-19.09	-13	-6.09	Vertical
3395.2	-48.60	4.02	29.80	-22.82	-13	-9.82	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

GPRS 850							
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 128/824.2 MHz							
1648.4	-44.65	2.80	27.50	-19.95	-13	-6.95	Vertical
1648.4	-43.19	2.80	27.50	-18.49	-13	-5.49	Horizontal
2472.6	-52.16	2.91	27.80	-27.27	-13	-14.27	Vertical
2472.6	-47.82	2.91	27.80	-22.93	-13	-9.93	Horizontal
3296.8	-50.95	4.02	29.87	-25.10	-13	-12.10	Vertical
3296.8	-45.17	4.02	29.87	-19.32	-13	-6.32	Horizontal
Test Results for Channel 190/836.6 MHz							
1673.2	-53.51	2.80	27.48	-28.83	-13	-15.83	Vertical
1673.2	-46.22	2.80	27.48	-21.54	-13	-8.54	Horizontal
2509.8	-53.40	2.91	27.70	-28.61	-13	-15.61	Vertical
2509.8	-47.06	2.91	27.70	-22.27	-13	-9.27	Horizontal
3346.4	-44.36	4.02	29.82	-18.56	-13	-5.56	Vertical
3346.4	-52.66	4.02	29.82	-26.86	-13	-13.86	Horizontal
Test Results for Channel 251/848.8 MHz							
1697.6	-50.97	2.80	27.42	-26.35	-13	-13.35	Vertical
1697.6	-47.70	2.80	27.42	-23.08	-13	-10.08	Horizontal
2546.4	-43.73	2.91	27.68	-18.96	-13	-5.96	Vertical
2546.4	-40.09	2.91	27.68	-15.32	-13	-2.32	Horizontal
3395.2	-48.85	4.02	29.80	-23.07	-13	-10.07	Vertical
3395.2	-41.57	4.02	29.80	-15.79	-13	-2.79	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

EGPRS 850							
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 128/824.2 MHz							
1648.4	-51.07	2.80	27.50	-26.37	-13	-13.37	Vertical
1648.4	-47.88	2.80	27.50	-23.18	-13	-10.18	Horizontal
2472.6	-55.05	2.91	27.80	-30.16	-13	-17.16	Vertical
2472.6	-49.44	2.91	27.80	-24.55	-13	-11.55	Horizontal
3296.8	-52.03	4.02	29.87	-26.18	-13	-13.18	Vertical
3296.8	-45.53	4.02	29.87	-19.68	-13	-6.68	Horizontal
Test Results for Channel 190/836.6 MHz							
1673.2	-50.73	2.80	27.48	-26.05	-13	-13.05	Vertical
1673.2	-50.79	2.80	27.48	-26.11	-13	-13.11	Horizontal
2509.8	-52.10	2.91	27.70	-27.31	-13	-14.31	Vertical
2509.8	-49.62	2.91	27.70	-24.83	-13	-11.83	Horizontal
3346.4	-49.96	4.02	29.82	-24.16	-13	-11.16	Vertical
3346.4	-46.55	4.02	29.82	-20.75	-13	-7.75	Horizontal
Test Results for Channel 251/848.8 MHz							
1697.6	-47.53	2.80	27.42	-22.91	-13	-9.91	Vertical
1697.6	-45.37	2.80	27.42	-20.75	-13	-7.75	Horizontal
2546.4	-53.33	2.91	27.68	-28.56	-13	-15.56	Vertical
2546.4	-48.25	2.91	27.68	-23.48	-13	-10.48	Horizontal
3395.2	-47.54	4.02	29.80	-21.76	-13	-8.76	Vertical
3395.2	-46.86	4.02	29.80	-21.08	-13	-8.08	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

GSM 1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 512/1850.2MHz							
3700.4	-48.80	4.04	33.51	-19.33	-13	-6.33	Vertical
3700.4	-55.24	4.04	33.51	-25.77	-13	-12.77	Horizontal
5550.6	-47.50	5.24	35.84	-16.90	-13	-3.90	Vertical
5550.6	-54.02	5.24	35.84	-23.42	-13	-10.42	Horizontal
Test Results for Channel 661/1880.0MHz							
3760	-53.43	4.04	33.56	-23.91	-13	-10.91	Vertical
3760	-47.75	4.04	33.56	-18.23	-13	-5.23	Horizontal
5640	-47.41	5.24	35.91	-16.74	-13	-3.74	Vertical
5640	-55.63	5.24	35.91	-24.96	-13	-11.96	Horizontal
Test Results for Channel 810/1909.8MHz							
3819.6	-54.57	4.04	34.00	-24.61	-13	-11.61	Vertical
3819.6	-57.49	4.04	34.00	-27.53	-13	-14.53	Horizontal
5729.4	-53.51	5.24	36.04	-22.71	-13	-9.71	Vertical
5729.4	-55.66	5.24	36.04	-24.86	-13	-11.86	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

GPRS 1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 512/1850.2MHz							
3700.4	-56.59	4.04	33.51	-27.12	-13	-14.12	Vertical
3700.4	-57.41	4.04	33.51	-27.94	-13	-14.94	Horizontal
5550.6	-49.40	5.24	35.84	-18.80	-13	-5.80	Vertical
5550.6	-54.31	5.24	35.84	-23.71	-13	-10.71	Horizontal
Test Results for Channel 661/1880.0MHz							
3760	-48.13	4.04	33.56	-18.61	-13	-5.61	Vertical
3760	-51.25	4.04	33.56	-21.73	-13	-8.73	Horizontal
5640	-57.32	5.24	35.91	-26.65	-13	-13.65	Vertical
5640	-50.72	5.24	35.91	-20.05	-13	-7.05	Horizontal
Test Results for Channel 810/1909.8MHz							
3819.6	-51.62	4.04	34.00	-21.66	-13	-8.66	Vertical
3819.6	-47.61	4.04	34.00	-17.65	-13	-4.65	Horizontal
5729.4	-49.53	5.24	36.04	-18.73	-13	-5.73	Vertical
5729.4	-50.63	5.24	36.04	-19.83	-13	-6.83	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

EGPRS 1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 512/1850.2MHz							
3700.4	-51.36	4.04	33.51	-21.89	-13	-8.89	Vertical
3700.4	-46.33	4.04	33.51	-16.86	-13	-3.86	Horizontal
5550.6	-48.87	5.24	35.84	-18.27	-13	-5.27	Vertical
5550.6	-48.20	5.24	35.84	-17.60	-13	-4.60	Horizontal
Test Results for Channel 661/1880.0MHz							
3760	-48.48	4.04	33.56	-18.96	-13	-5.96	Vertical
3760	-45.77	4.04	33.56	-16.25	-13	-3.25	Horizontal
5640	-48.84	5.24	35.91	-18.17	-13	-5.17	Vertical
5640	-48.05	5.24	35.91	-17.38	-13	-4.38	Horizontal
Test Results for Channel 810/1909.8MHz							
3819.6	-53.71	4.04	34.00	-23.75	-13	-10.75	Vertical
3819.6	-50.07	4.04	34.00	-20.11	-13	-7.11	Horizontal
5729.4	-55.61	5.24	36.04	-24.81	-13	-11.81	Vertical
5729.4	-50.51	5.24	36.04	-19.71	-13	-6.71	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

WCDMA Band II							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 9262/1852.4MHz							
3704.8	-57.72	4.04	33.51	-28.25	-13	-15.25	Vertical
3704.8	-49.94	4.04	33.51	-20.47	-13	-7.47	Horizontal
5557.2	-54.04	5.24	35.84	-23.44	-13	-10.44	Vertical
5557.2	-48.60	5.24	35.84	-18.00	-13	-5.00	Horizontal
Test Results for Channel 9400/1880MHz							
3760	-49.72	4.04	33.56	-20.20	-13	-7.20	Vertical
3760	-57.89	4.04	33.56	-28.37	-13	-15.37	Horizontal
5640	-52.57	5.24	35.91	-21.90	-13	-8.90	Vertical
5640	-52.75	5.24	35.91	-22.08	-13	-9.08	Horizontal
Test Results for Channel 9538/1907.6MHz							
3815.2	-48.49	4.04	34.00	-18.53	-13	-5.53	Vertical
3815.2	-49.28	4.04	34.00	-19.32	-13	-6.32	Horizontal
5722.8	-57.23	5.24	36.04	-26.43	-13	-13.43	Vertical
5722.8	-57.16	5.24	36.04	-26.36	-13	-13.36	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

WCDMA Band V							
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 4233/846.6MHz							
1693.2	-43.61	2.80	27.50	-18.91	-13	-5.91	Vertical
1693.2	-47.74	2.80	27.50	-23.04	-13	-10.04	Horizontal
2539.8	-51.41	2.91	27.80	-26.52	-13	-13.52	Vertical
2539.8	-48.00	2.91	27.80	-23.11	-13	-10.11	Horizontal
3386.4	-43.33	4.02	29.87	-17.48	-13	-4.48	Vertical
3386.4	-49.10	4.02	29.87	-23.25	-13	-10.25	Horizontal
Test Results for Channel 4182/836.6MHz							
1672.8	-45.29	2.80	27.48	-20.61	-13	-7.61	Vertical
1672.8	-42.13	2.80	27.48	-17.45	-13	-4.45	Horizontal
2509.2	-50.21	2.91	27.70	-25.42	-13	-12.42	Vertical
2509.2	-42.86	2.91	27.70	-18.07	-13	-5.07	Horizontal
3345.6	-48.00	4.02	29.82	-22.20	-13	-9.20	Vertical
3345.6	-49.84	4.02	29.82	-24.04	-13	-11.04	Horizontal
Test Results for Channel 4132/826.4MHz							
1652.8	-45.18	2.80	27.42	-20.56	-13	-7.56	Vertical
1652.8	-46.07	2.80	27.42	-21.45	-13	-8.45	Horizontal
2479.2	-50.23	2.91	27.68	-25.46	-13	-12.46	Vertical
2479.2	-45.04	2.91	27.68	-20.27	-13	-7.27	Horizontal
3305.6	-48.80	4.02	29.80	-23.02	-13	-10.02	Vertical
3305.6	-50.39	4.02	29.80	-24.61	-13	-11.61	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

WCDMA Band IV							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 1312/1712.4MHz							
3424.8	-51.97	4.02	29.80	-26.19	-13	-13.19	Vertical
3424.8	-49.80	4.02	29.80	-24.02	-13	-11.02	Horizontal
5137.2	-47.19	5.24	35.84	-16.59	-13	-3.59	Vertical
5137.2	-47.66	5.24	35.84	-17.06	-13	-4.06	Horizontal
Test Results for Channel 1412/1732.4MHz							
3464.8	-42.28	4.03	30.00	-16.31	-13	-3.31	Vertical
3464.8	-47.93	4.03	30.00	-21.96	-13	-8.96	Horizontal
5197.2	-47.82	5.25	35.86	-17.21	-13	-4.21	Vertical
5197.2	-48.47	5.25	35.86	-17.86	-13	-4.86	Horizontal
Test Results for Channel 1513/1752.6MHz							
3505.2	-51.38	2.91	27.68	-26.61	-13	-13.61	Vertical
3505.2	-48.17	2.91	27.68	-23.40	-13	-10.40	Horizontal
5257.8	-47.30	5.26	35.86	-16.70	-13	-3.70	Vertical
5257.8	-53.57	5.26	35.86	-22.97	-13	-9.97	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.
2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
3. Over Limit= Absolute Level (dBm)-Limit(dBm)

7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements
Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.
In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to the input of the dipole, and the power received (P_r) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$ERP/EIRP = SGLevel - P_{cl} + G_a$$

where:

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

SGLevel = Signal generator output power or PSD, in dBm or dBW;

G_a = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

P_{cl} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (P_{in}).

ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

	GSM/GPRS/EGPRS	UMTS band
Span	500KHz	10MHz
RBW	10KHz	300KHz
VBW	30KHz	1MHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

7.2.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen

■ Effective Radiated Power

Radiated Power (ERP) for GSM850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	H	12.03	2.11	23.84	2.15	31.61	1.44877
836.6	H	12.29	2.13	23.15	2.15	31.16	1.30617
848.8	H	12.59	2.13	23.06	2.15	31.37	1.37088
824.2	V	12.55	2.11	23.11	2.15	31.40	1.38038
836.6	V	12.67	2.13	23.07	2.15	31.46	1.39959
848.8	V	12.44	2.13	23.25	2.15	31.41	1.38357

Radiated Power (ERP) for GPRS850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	H	12.12	2.11	23.84	2.15	31.70	1.47911
836.6	H	12.63	2.13	23.15	2.15	31.50	1.41254
848.8	H	12.26	2.13	23.06	2.15	31.04	1.27057
824.2	V	12.75	2.11	23.11	2.15	31.60	1.44544
836.6	V	12.66	2.13	23.07	2.15	31.45	1.39637
848.8	V	12.78	2.13	23.25	2.15	31.75	1.49624

Radiated Power (ERP) for EGPRS850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	H	6.21	2.11	23.84	2.15	25.79	0.37931
836.6	H	6.44	2.13	23.15	2.15	25.31	0.33963
848.8	H	6.67	2.13	23.06	2.15	25.45	0.35075
824.2	V	6.95	2.11	23.11	2.15	25.80	0.38019
836.6	V	6.77	2.13	23.07	2.15	25.56	0.35975
848.8	V	6.58	2.13	23.25	2.15	25.55	0.35892

Radiated Power (ERP) for UMTS band V							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
826.4	H	3.05	2.11	23.84	2.15	22.63	0.18323
835	H	3.78	2.13	23.15	2.15	22.65	0.18408
846.6	H	3.84	2.13	23.06	2.15	22.62	0.18281
826.4	V	3.77	2.11	23.11	2.15	22.62	0.18281
835	V	3.91	2.13	23.07	2.15	22.70	0.18621
846.6	V	3.78	2.13	23.25	2.15	22.75	0.18836

Note:

SG Level= Signal generator output

Pcl= cable loss

Ga= Antenna Gain

Peak EIRP(dBm)= SGLevel -Pcl +Ga

ERP(dBm)=EIRP-2.15

■ Effective Isotropic Radiated Power

Radiated Power (E.I.R.P) for GSM1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	H	5.32	3.76	28.24	29.80	0.95499
1880	H	5.05	3.91	28.22	29.36	0.86298
1909.8	H	5.26	3.93	28.20	29.53	0.89743
1850.2	V	5.78	3.76	27.32	29.34	0.85901
1880	V	5.89	3.91	27.33	29.31	0.85310
1909.8	V	5.91	3.93	27.31	29.29	0.84918

Radiated Power (E.I.R.P) for GPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	H	5.02	3.76	28.24	29.50	0.89125
1880	H	4.89	3.91	28.22	29.20	0.83176
1909.8	H	4.99	3.93	28.20	29.26	0.84333
1850.2	V	5.69	3.76	27.32	29.25	0.84140
1880	V	5.87	3.91	27.33	29.29	0.84918
1909.8	V	5.97	3.93	27.31	29.35	0.86099

Radiated Power (E.I.R.P) for EGPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	H	-1.09	3.76	28.24	23.39	0.21827
1880	H	-1.22	3.91	28.22	23.09	0.20370
1909.8	H	-0.46	3.93	28.20	23.81	0.24044
1850.2	V	-0.57	3.76	27.32	22.99	0.19907
1880	V	-0.82	3.91	27.33	22.60	0.18197
1909.8	V	0.04	3.93	27.31	23.42	0.21979

Radiated Power (E.I.R.P) for UMTS band II						
Frequency	Polarization	SG Level	Pcl	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	Antenna Gain (dB)	(dBm)	(W)
1852.4	H	-2.07	3.76	28.24	22.41	0.17418
1880	H	-1.69	3.91	28.22	22.62	0.18281
1907.6	H	-2.29	3.93	28.20	21.98	0.15776
1852.4	V	-1.49	3.76	27.32	22.07	0.16106
1880	V	-1.01	3.91	27.33	22.41	0.17418
1907.6	V	-1.01	3.93	27.31	22.37	0.17258

Radiated Power (E.I.R.P) for UMTS band IV						
Frequency	Polarization	SG Level	Pcl	Ga	EIRP	EIRP
(MHz)		(dBm)	(dB)	Antenna Gain (dB)	(dBm)	(W)
1712.4	H	-2.42	3.13	27.63	22.08	0.16144
1732.4	H	-1.63	3.27	27.61	22.71	0.18664
1752.6	H	-1.55	3.30	27.60	22.75	0.18836
1712.4	V	-1.86	3.13	27.63	22.64	0.18365
1732.4	V	-1.95	3.27	27.61	22.39	0.17338
1752.6	V	-1.84	3.30	27.60	22.46	0.17620

Note:

SG Level= Signal generator output

Pcl= cable loss

Ga= Antenna Gain

Peak EIRP(dBm)= SGLevel –Pcl+Ga.

7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW $\geq 3 \times$ RBW.

Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS S850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen

Output Power for GSM850

Mode	Frequency (MHz)	Maximum Burst-Average Output Power
GSM850	824.2	32.36
	836.6	32.44
	848.8	32.50
GPRS850 (1 Slot)	824.2	32.37
	836.6	32.45
	848.8	32.48
GPRS850 (2 Slot)	824.2	31.49
	836.6	31.49
	848.8	31.47
GPRS850 (3 Slot)	824.2	29.46
	836.6	29.48
	848.8	29.47
GPRS850 (4 Slot)	824.2	28.50
	836.6	28.45
	848.8	28.49
EGPRS850 (1 Slot)	824.2	26.49
	836.6	26.47
	848.8	26.45
EGPRS850 (2 Slot)	824.2	25.32
	836.6	25.27
	848.8	25.22
EGPRS850 (3 Slot)	824.2	22.49
	836.6	22.41
	848.8	22.48
EGPRS850 (4 Slot)	824.2	21.39
	836.6	21.43
	848.8	21.35

N/A: Not Applicable

Output Power for PCS1900

Mode	Frequency (MHz)	Maximum Burst-Average Output Power
GSM1900	1850.2	30.80
	1880	30.78
	1909.8	30.69
GPRS1900 (1 Slot)	1850.2	30.92
	1880	30.88
	1909.8	30.82
GPRS1900 (2 Slot)	1850.2	29.60
	1880	29.64
	1909.8	29.58
GPRS1900 (3 Slot)	1850.2	27.90
	1880	27.85
	1909.8	27.93
GPRS1900 (4 Slot)	1850.2	26.72
	1880	26.69
	1909.8	26.78
EGPRS1900 (1 Slot)	1850.2	24.62
	1880	24.97
	1909.8	25.00
EGPRS1900 (2 Slot)	1850.2	22.98
	1880	22.92
	1909.8	22.85
EGPRS1900 (3 Slot)	1850.2	20.47
	1880	20.49
	1909.8	20.51
EGPRS1900 (4 Slot)	1850.2	18.59
	1880	18.55
	1909.8	18.62

N/A: Not Applicable

Output Power for UMTS BAND II

Mode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 1900 RMC	1852.4	23.10
	1880	23.49
	1907.6	23.20
WCDMA 1900 AMR	1852.4	23.04
	1880	23.36
	1907.6	23.15
HSDPA Subtest 1	1852.4	22.95
	1880	23.09
	1907.6	23.07
HSDPA Subtest 2	1852.4	22.02
	1880	22.48
	1907.6	22.46
HSDPA Subtest 3	1852.4	22.03
	1880	22.48
	1907.6	22.48
HSDPA Subtest 4	1852.4	22.05
	1880	22.50
	1907.6	22.45
HSUPA Subtest 1	1852.4	22.06
	1880	22.49
	1907.6	22.47
HSUPA Subtest 2	1852.4	22.08
	1880	22.46
	1907.6	22.45
HSUPA Subtest 3	1852.4	22.08
	1880	22.45
	1907.6	22.46
HSUPA Subtest 4	1852.4	22.04
	1880	22.48
	1907.6	22.43
HSUPA Subtest 5	1852.4	22.89
	1880	22.95
	1907.6	22.96

Output Power for UMTS BAND V

Mode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 850 RMC	826.4	23.27
	836.6	23.16
	846.6	23.04
WCDMA 850 AMR	826.4	23.19
	836.6	23.10
	846.6	22.97
HSDPA Subtest 1	826.4	22.24
	836.6	22.15
	846.6	22.04
HSDPA Subtest 2	826.4	21.47
	836.6	21.49
	846.6	21.47
HSDPA Subtest 3	826.4	21.45
	836.6	21.48
	846.6	21.49
HSDPA Subtest 4	826.4	21.46
	836.6	21.46
	846.6	21.50
HSUPA Subtest 1	826.4	21.48
	836.6	21.45
	846.6	21.50
HSUPA Subtest 2	826.4	21.49
	836.6	21.49
	846.6	21.49
HSUPA Subtest 3	826.4	21.44
	836.6	21.41
	846.6	21.48
HSUPA Subtest 4	826.4	21.43
	836.6	21.48
	846.6	21.47
HSUPA Subtest 5	826.4	22.23
	836.6	22.14
	846.6	22.06

Output Power for UMTS BAND IV

Mode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA Band IV RMC	1712.4	23.50
	1732.4	23.48
	1752.6	23.47
WCDMA Band IV AMR	1712.4	23.43
	1732.4	23.47
	1752.6	23.35
HSDPA Subtest 1	1712.4	23.05
	1732.4	22.78
	1752.6	22.85
HSDPA Subtest 2	1712.4	22.24
	1732.4	22.18
	1752.6	22.25
HSDPA Subtest 3	1712.4	22.25
	1732.4	22.20
	1752.6	22.26
HSDPA Subtest 4	1712.4	22.22
	1732.4	22.19
	1752.6	22.23
HSUPA Subtest 1	1712.4	22.25
	1732.4	22.18
	1752.6	22.27
HSUPA Subtest 2	1712.4	22.27
	1732.4	22.21
	1752.6	22.29
HSUPA Subtest 3	1712.4	22.29
	1732.4	22.16
	1752.6	22.28
HSUPA Subtest 4	1712.4	22.31
	1732.4	22.20
	1752.6	22.30
HSUPA Subtest 5	1712.4	23.01
	1732.4	22.98
	1752.6	22.91

7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
2. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 $^{\circ}\text{C}$	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band VI/ UMTS band IV	Test By:	Cheng Jiawen

Results: PASS

Frequency Error Against Voltage for GSM 850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-20	-0.0239
3.8	-21	-0.0251
4.4	-21	-0.0251

Frequency Error Against Temperature for GSM 850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-19	-0.0227
-20	-25	-0.0299
-10	-21	-0.0251
0	-19	-0.0227
10	-26	-0.0311
20	-17	-0.0203
30	-23	-0.0275
40	-20	-0.0239
50	-24	-0.0287

Frequency Error Against Voltage for GPRS850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-19	-0.0227
3.8	-23	-0.0275
4.4	-21	-0.0251

Frequency Error Against Temperature for GPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-24	-0.0287
-20	-25	-0.0299
-10	-23	-0.0275
0	-22	-0.0263
10	-27	-0.0323
20	-25	-0.0299
30	-30	-0.0359
40	-28	-0.0335
50	-24	-0.0287

Frequency Error Against Voltage for EGPRS850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-25	-0.0299
3.8	-29	-0.0347
4.4	-30	-0.0359

Frequency Error Against Temperature for EGPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-25	-0.0299
-20	-31	-0.0371
-10	-28	-0.0335
0	-26	-0.0311
10	-27	-0.0323
20	-27	-0.0323
30	-29	-0.0347
40	-31	-0.0371
50	-31	-0.0371

Note:

1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage = 4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Frequency Error Against Voltage for PCS 1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-23	-0.0122
3.8	-24	-0.0128
4.4	-30	-0.0160

Frequency Error Against Temperature for PCS 1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-29	-0.0154
-20	-26	-0.0138
-10	-25	-0.0133
0	-31	-0.0165
10	-29	-0.0154
20	-33	-0.0176
30	-33	-0.0176
40	-26	-0.0138
50	-27	-0.0144

Frequency Error Against Voltage for GPRS1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-23	-0.0122
3.8	-29	-0.0154
4.4	-32	-0.0170

Frequency Error Against Temperature for GPRS1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-24	-0.0128
-20	-27	-0.0144
-10	-31	-0.0165
0	-26	-0.0138
10	-25	-0.0133
20	-29	-0.0154
30	-28	-0.0149
40	-33	-0.0176
50	-26	-0.0138

Frequency Error Against Voltage for EGPRS1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-31	-0.0165
3.8	-26	-0.0138
4.4	-29	-0.0154

Frequency Error Against Temperature for EGPRS1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-24	-0.0128
-20	-21	-0.0112
-10	-27	-0.0144
0	-32	-0.0170
10	-28	-0.0149
20	-27	-0.0144
30	-35	-0.0186
40	-34	-0.0181
50	-26	-0.0138

Note:

1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage = 4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Frequency Error Against Voltage for UMTS band II		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-19	-0.0101
3.8	-23	-0.0122
4.4	-21	-0.0112

Frequency Error Against Temperature for UMTS band II		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-26	-0.0138
-20	-25	-0.0133
-10	-28	-0.0149
0	-29	-0.0154
10	-31	-0.0165
20	-30	-0.0160
30	-27	-0.0144
40	-29	-0.0154
50	-31	-0.0165

Frequency Error Against Voltage for UMTS band V		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-25	-0.0299
3.8	-22	-0.0263
4.4	-29	-0.0347

Frequency Error Against Temperature for UMTS band V		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-23	-0.0275
-20	-27	-0.0323
-10	-25	-0.0299
0	-30	-0.0359
10	-33	-0.0394
20	-32	-0.0383
30	-26	-0.0311
40	-24	-0.0287
50	-22	-0.0263

Frequency Error Against Voltage for UMTS band IV		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.2	-23	-0.0133
3.8	-27	-0.0156
4.4	-23	-0.0133

Frequency Error Against Temperature for UMTS band IV		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-22	-0.0127
-20	-27	-0.0156
-10	-25	-0.0144
0	-21	-0.0121
10	-26	-0.0150
20	-24	-0.0139
30	-22	-0.0127
40	-25	-0.0144
50	-28	-0.0162

Note:

1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.2V; Maximum Voltage = 4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/ EGPRS 850/ GSM/GPRS/ EGPRS 1900 /UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen
Results: PASS			

Cellular Band						
Modes	GSM850			GSM1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.68	2.68	2.69	2.68	2.68	2.67

Cellular Band						
Modes	GPRS850			GPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.69	2.69	2.69	2.68	2.68	2.68

Cellular Band						
Modes	EGPRS850			EGPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	5.53	5.52	5.52	5.45	5.44	5.47

UMTS Band						
Modes	WCDMA Band II (RMC 12.2Kbps)			WCDMA Band V (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)	4132 (Low)	4175 (Mid)	4233 (High)
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
Peak-to-Average Ratio (dB)	3.05	3.07	3.04	2.89	2.97	2.83

Modes	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312 (Low)	1412 (Mid)	1513 (High)
Frequency(MHz)	1712.4	1732.6	1752.6
Peak-to-Average Ratio (dB)	2.85	2.83	3.05

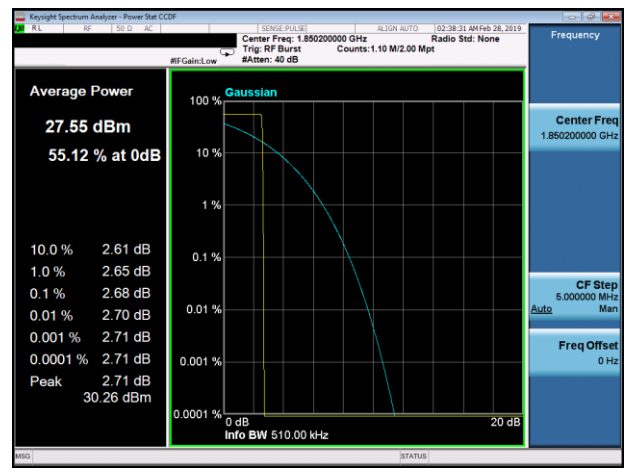
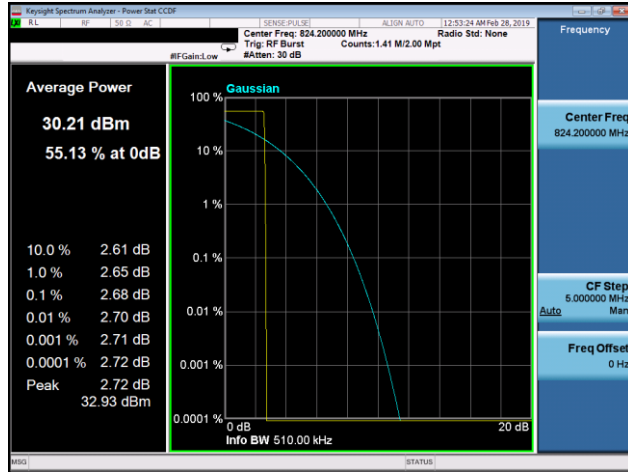
Test plot

(GSM850)

(GSM1900)

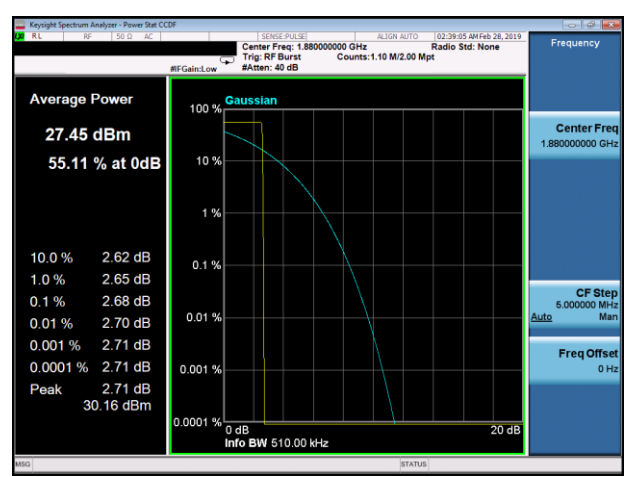
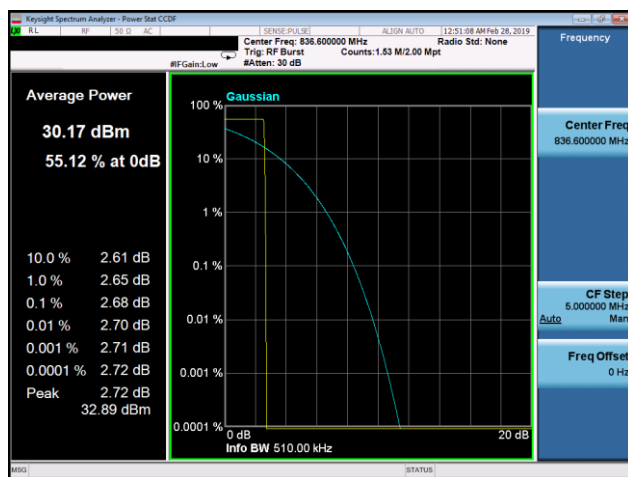
Peak-to-Average Ratio on channel 128

Peak-to-Average Ratio on channel 512



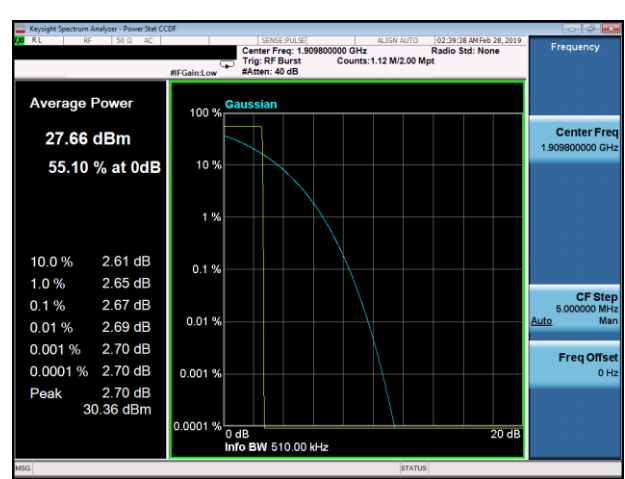
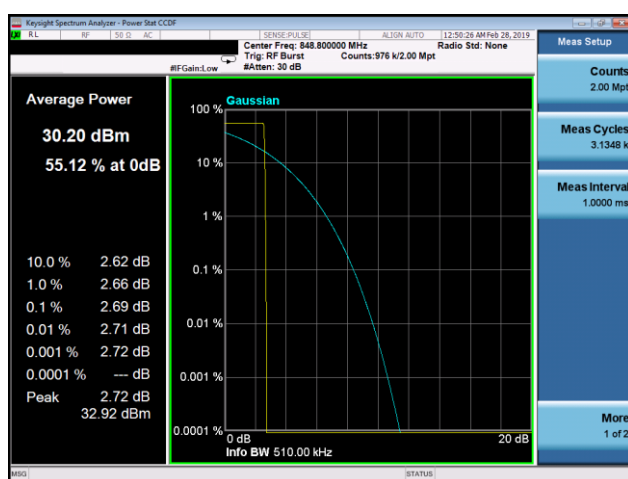
Peak-to-Average Ratio on channel 190

Peak-to-Average Ratio on channel 661



Peak-to-Average Ratio on channel 251

Peak-to-Average Ratio on channel 810



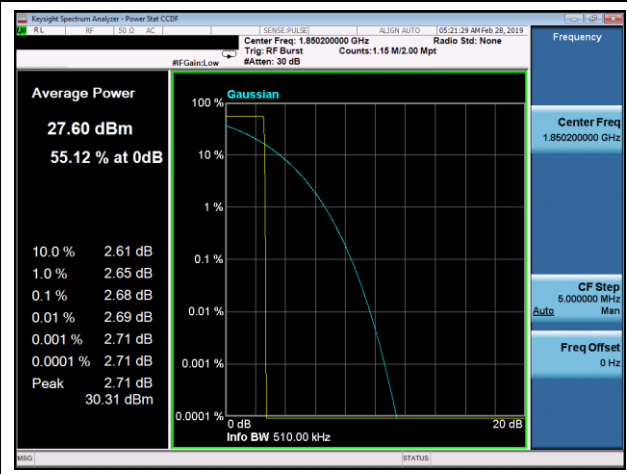
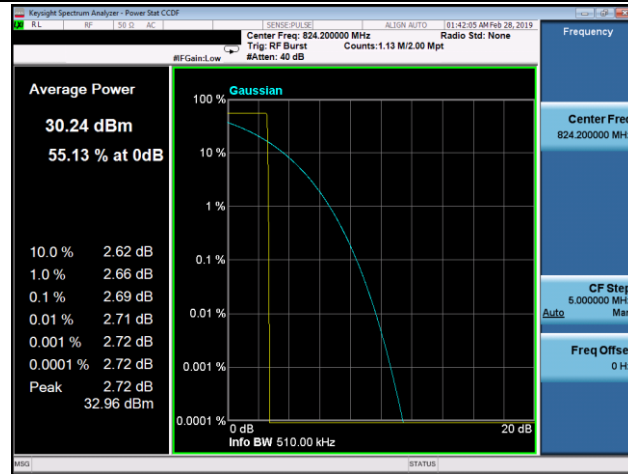
Test plot

(GPRS850)

(GPRS1900)

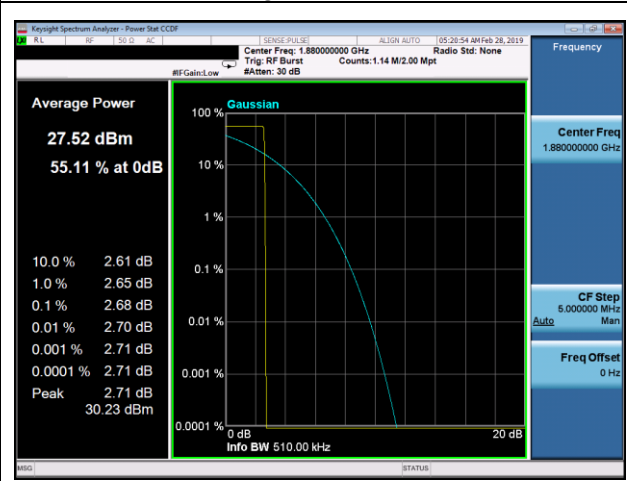
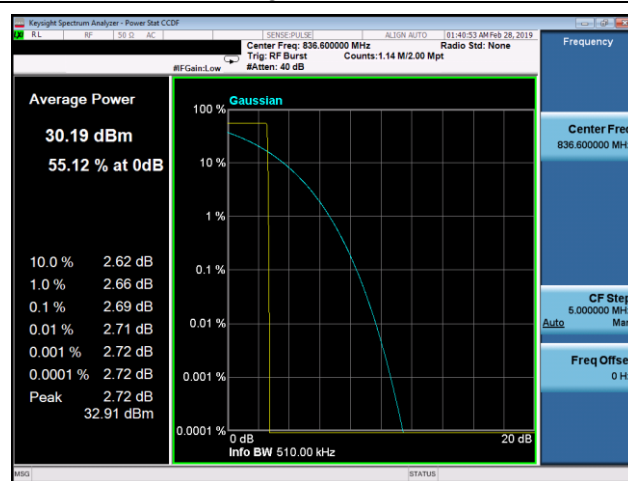
Peak-to-Average Ratio on channel 128

Peak-to-Average Ratio on channel 512



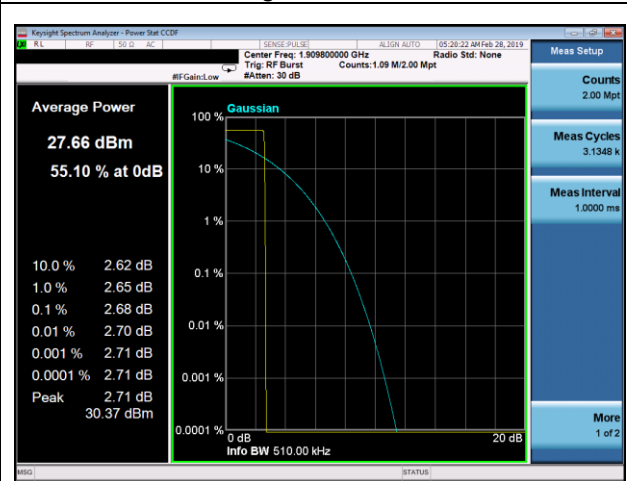
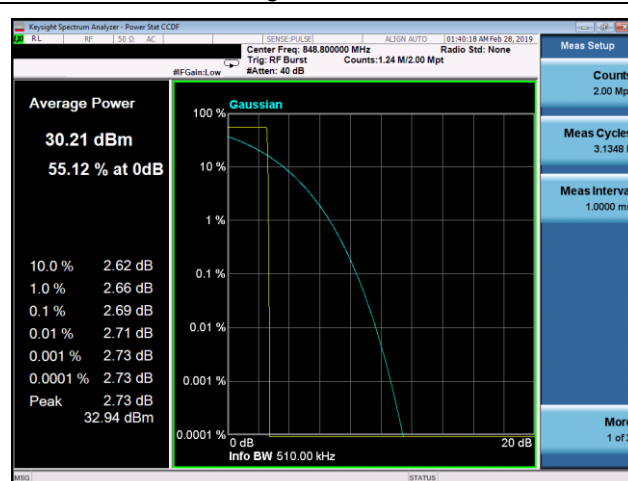
Peak-to-Average Ratio on channel 190

Peak-to-Average Ratio on channel 661



Peak-to-Average Ratio on channel 251

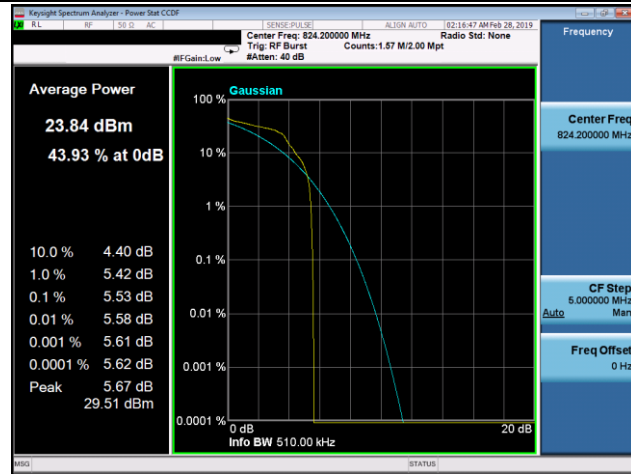
Peak-to-Average Ratio on channel 810



Test plot

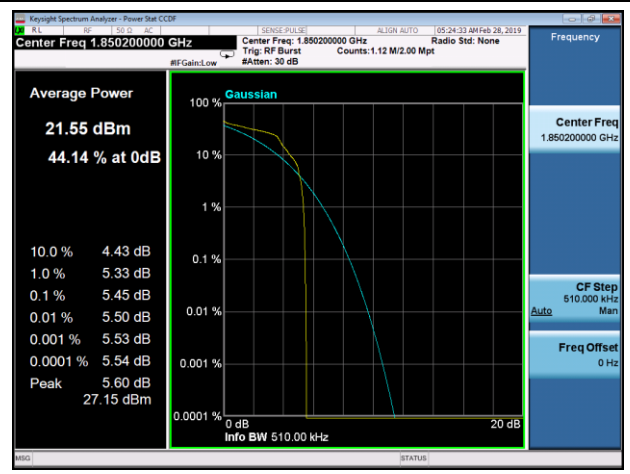
(EGPRS850)

Peak-to-Average Ratio on channel 128

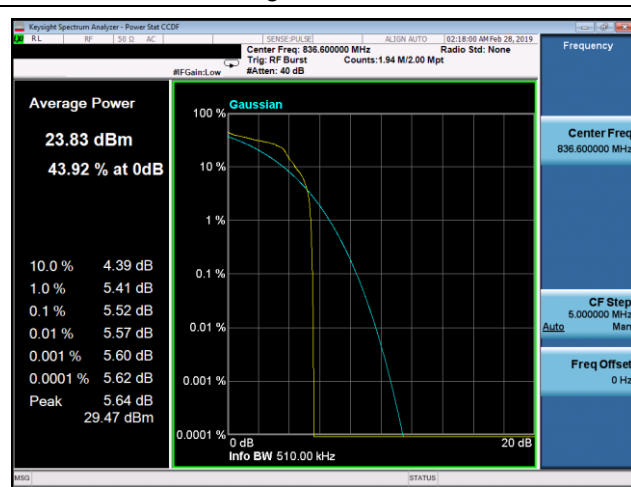


(EGPRS1900)

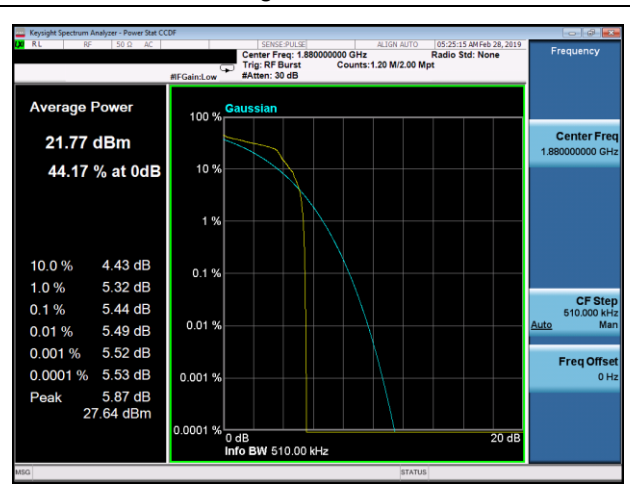
Peak-to-Average Ratio on channel 512



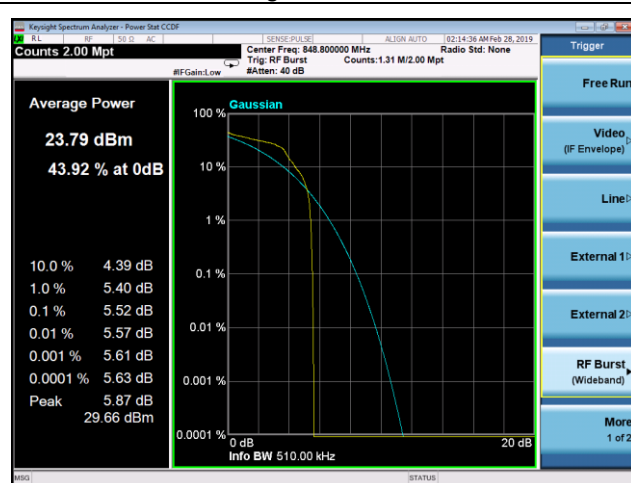
Peak-to-Average Ratio on channel 190



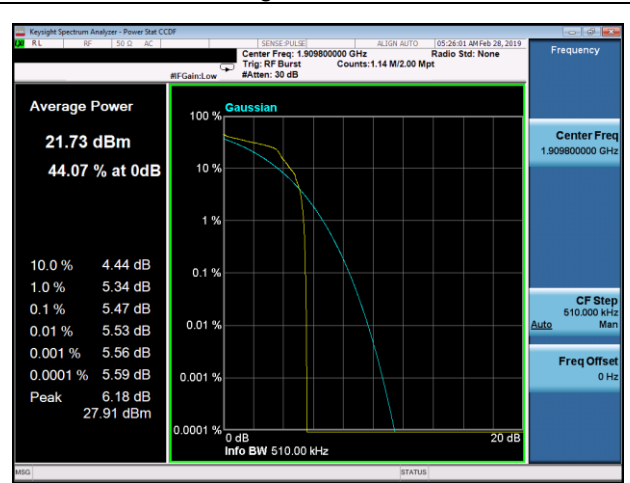
Peak-to-Average Ratio on channel 661



Peak-to-Average Ratio on channel 251



Peak-to-Average Ratio on channel 810



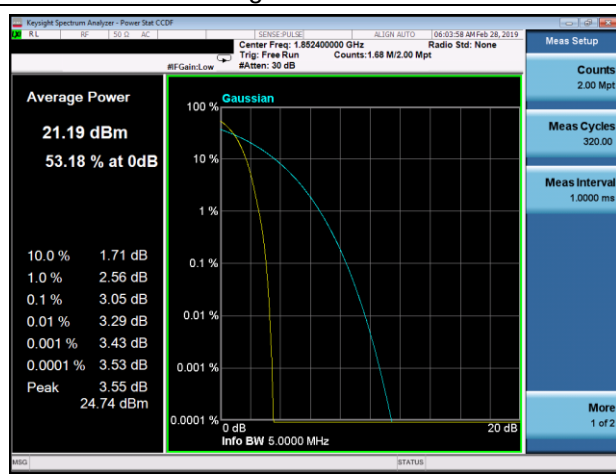
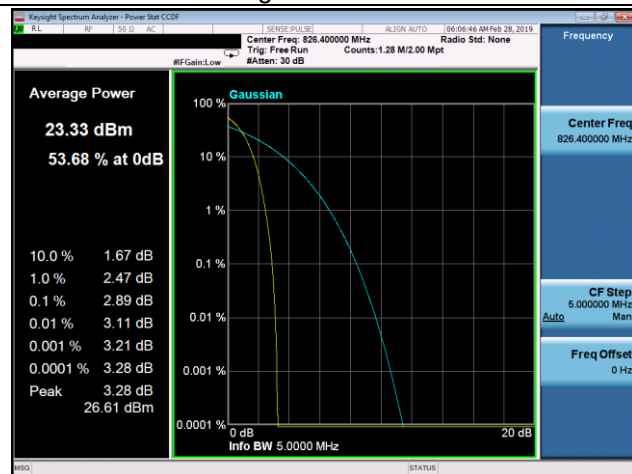
Test plot

UMTS Band V

UMTS Band II

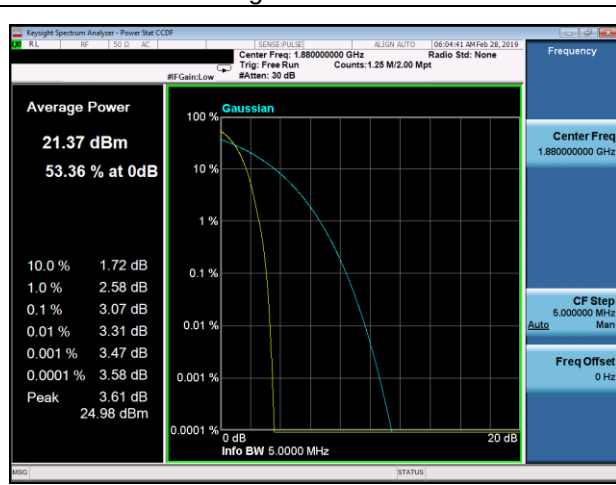
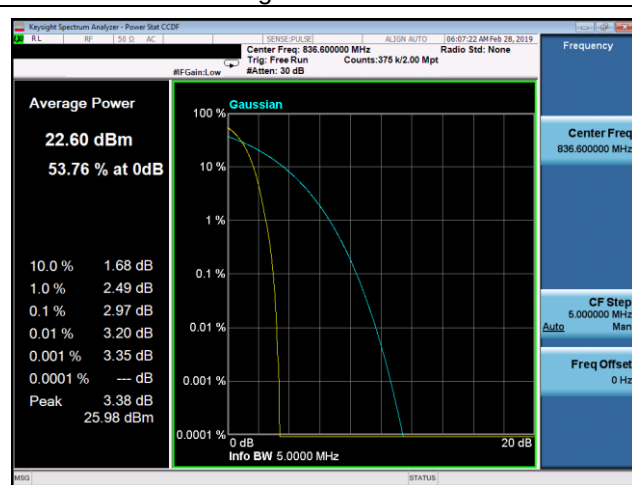
Peak-to-Average Ratio on channel 4132

Peak-to-Average Ratio on channel 9262



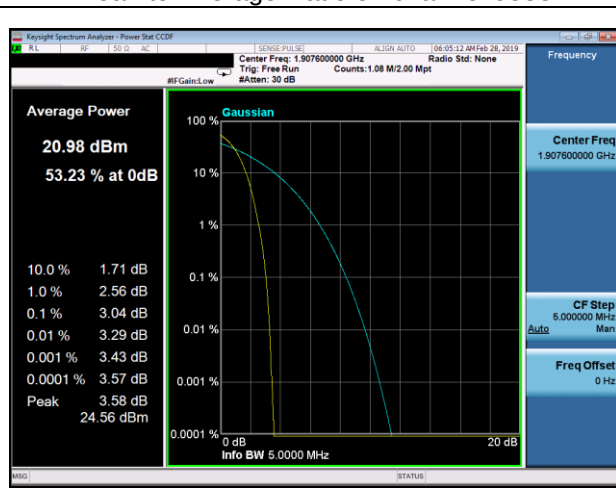
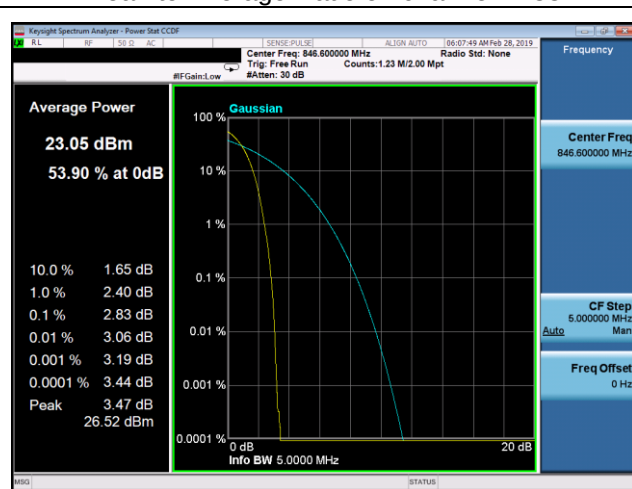
Peak-to-Average Ratio on channel 4183

Peak-to-Average Ratio on channel 9400



Peak-to-Average Ratio on channel 4233

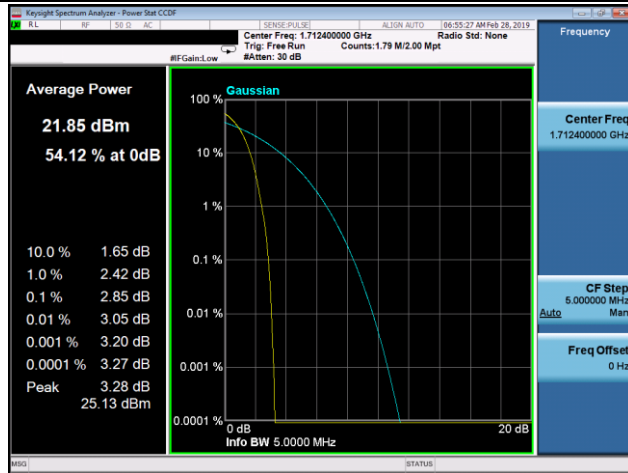
Peak-to-Average Ratio on channel 9538



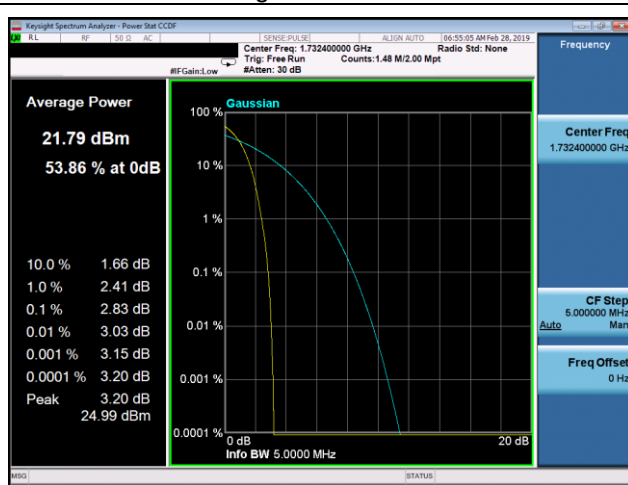
Test plot

UMTS Band IV

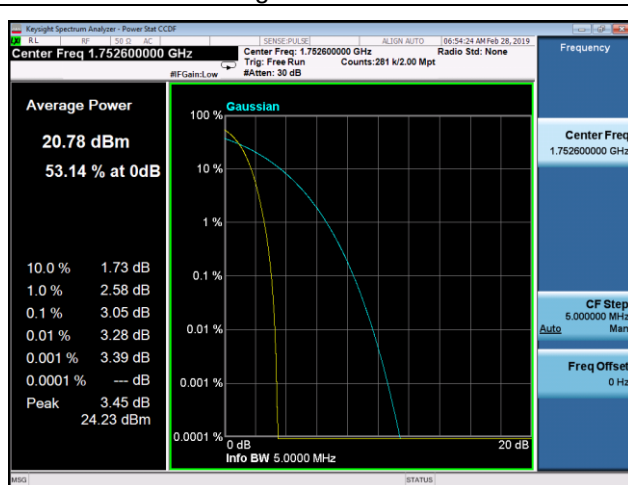
Peak-to-Average Ratio on channel 1312



Peak-to-Average Ratio on channel 1412



Peak-to-Average Ratio on channel 1513



7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)

Determine the “-26 dB down amplitude” as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

7.6.6 Test Results

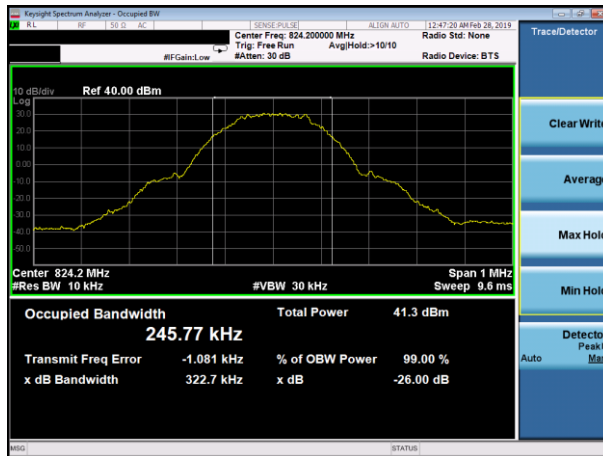
EUT:	Mobile Phone	Model No.:	AX1080
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 /UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Cheng Jiawen
Results: PASS			

Operation Mode	Channel Number	Channel Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Verdict
GSM 850	128	824.2	322.7	245.77	N/A	PASS
	190	836.6	311.6	245.53	N/A	PASS
	251	848.8	318.2	242.08	N/A	PASS
GSM 1900	512	1850.2	316.5	244.57	N/A	PASS
	661	1880.0	322.5	244.35	N/A	PASS
	810	1909.8	316.8	248.25	N/A	PASS
GPRS 850	128	824.2	318.0	244.08	N/A	PASS
	190	836.6	311.7	247.12	N/A	PASS
	251	848.8	319.6	241.43	N/A	PASS
GPRS 1900	512	1850.2	316.2	242.30	N/A	PASS
	661	1880.0	319.8	245.06	N/A	PASS
	810	1909.8	322.1	245.44	N/A	PASS
EGPRS 850	128	824.2	311.3	249.47	N/A	PASS
	190	836.6	321.4	252.79	N/A	PASS
	251	848.8	316.2	249.84	N/A	PASS
EGPRS 1900	512	1850.2	316.5	252.64	N/A	PASS
	661	1880.0	316.6	245.40	N/A	PASS
	810	1909.8	317.9	246.51	N/A	PASS
UMTS Band V	4132	826.4	4725	4162.1	N/A	PASS
	4183	836.6	4715	4174.3	N/A	PASS
	4233	846.6	4713	4156.2	N/A	PASS
UMTS Band II	9262	1852.4	4710	4168.4	N/A	PASS
	9400	1880.0	4710	4166.4	N/A	PASS
	9538	1907.6	4701	4160.2	N/A	PASS
UMTS Band IV	1312	1712.4	4719	4164.4	N/A	PASS
	1412	1732.6	4714	4160.0	N/A	PASS
	1513	1752.6	4702	4157.3	N/A	PASS

Test plot

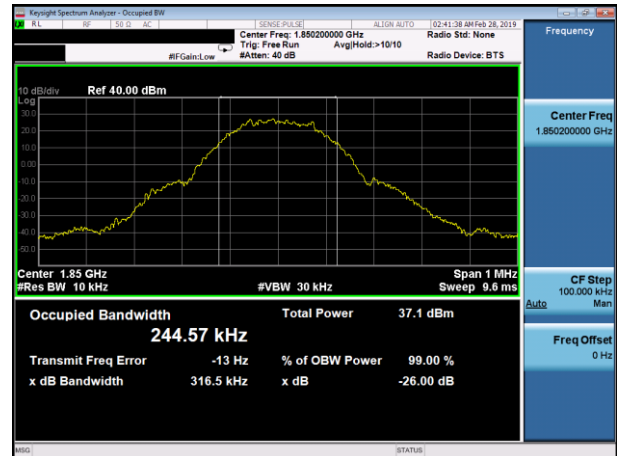
(GSM850)

-26dB&99% Bandwidth plot on channel 128



(GSM1900)

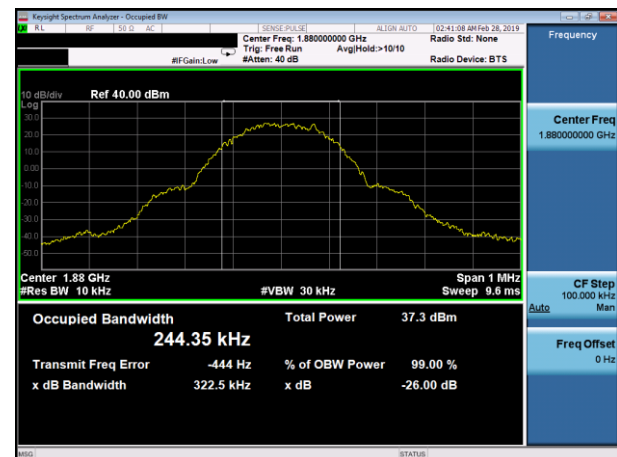
-26dB&99% Bandwidth plot on channel 512



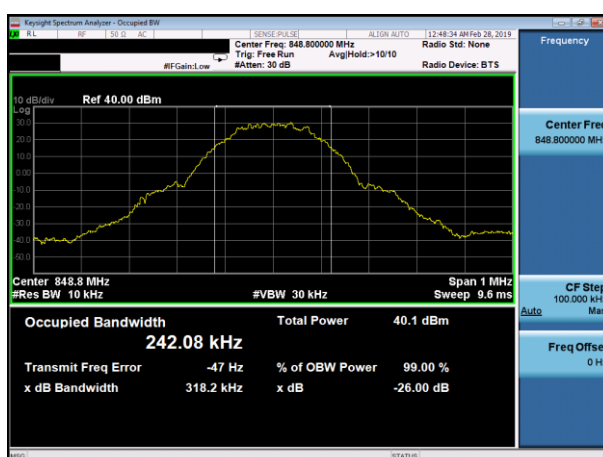
-26dB&99% Bandwidth plot on channel 190



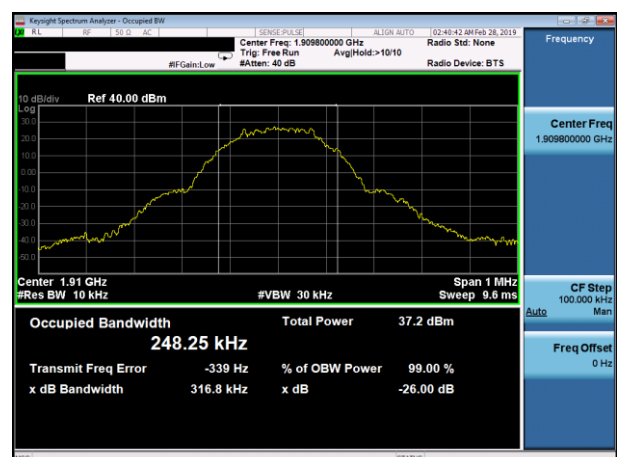
-26dB&99% Bandwidth plot on channel 661



-26dB&99% Bandwidth plot on channel 251



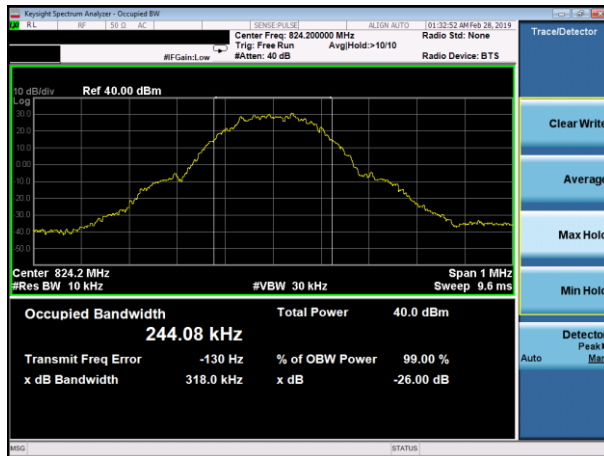
-26dB&99% Bandwidth plot on channel 810



Test plot

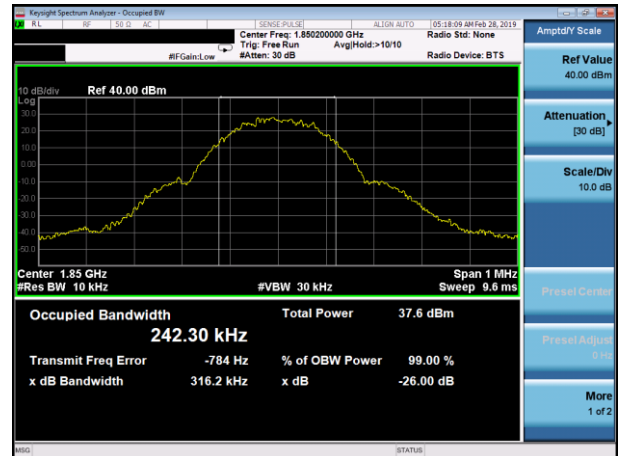
(GPRS850)

-26dB&99% Bandwidth plot on channel 128



(GPRS1900)

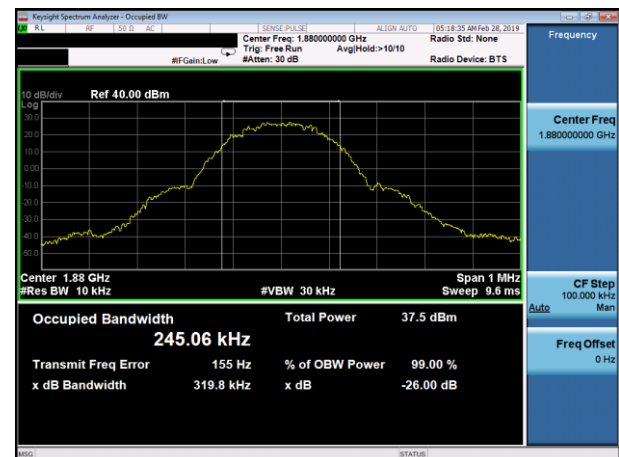
-26dB&99% Bandwidth plot on channel 512



-26dB&99% Bandwidth plot on channel 190



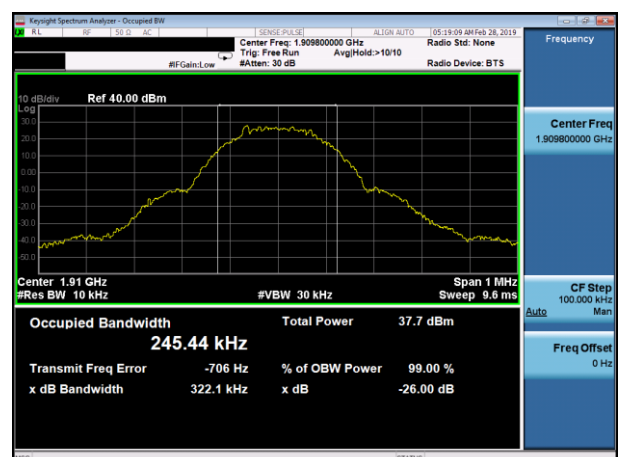
-26dB&99% Bandwidth plot on channel 661



-26dB&99% Bandwidth plot on channel 251



-26dB&99% Bandwidth plot on channel 810



Test plot

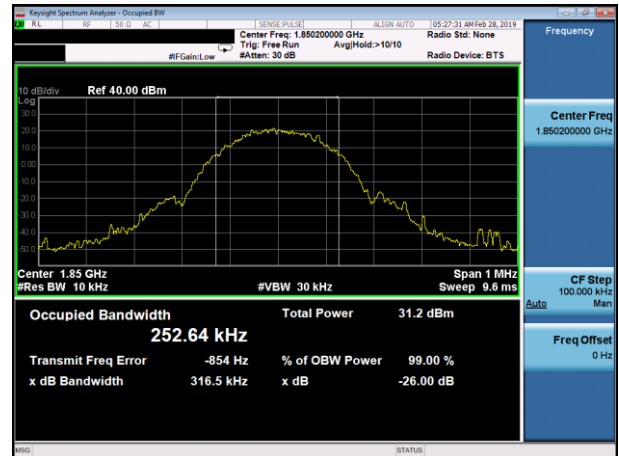
(EGPRS850)

-26dB&99% Bandwidth plot on channel 128



(EGPRS1900)

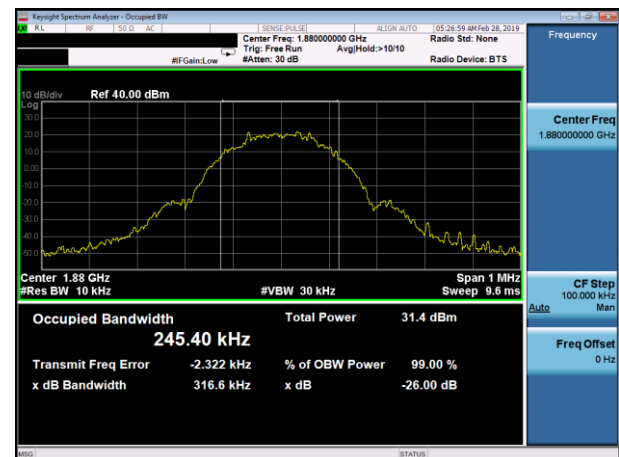
-26dB&99% Bandwidth plot on channel 512



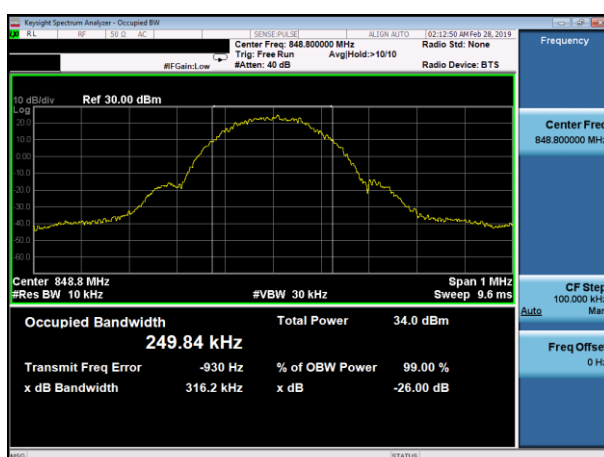
-26dB&99% Bandwidth plot on channel 190



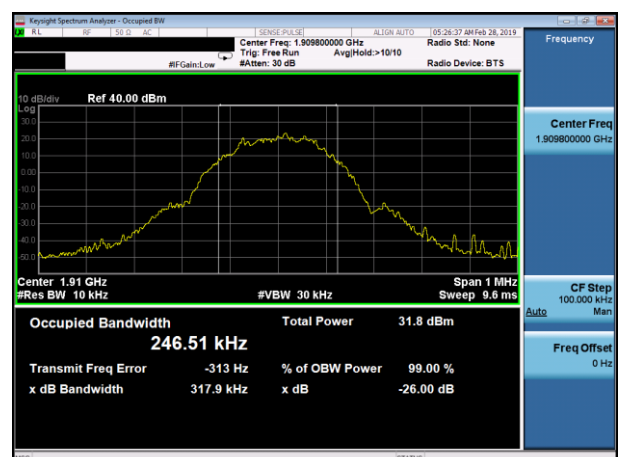
-26dB&99% Bandwidth plot on channel 661



-26dB&99% Bandwidth plot on channel 251



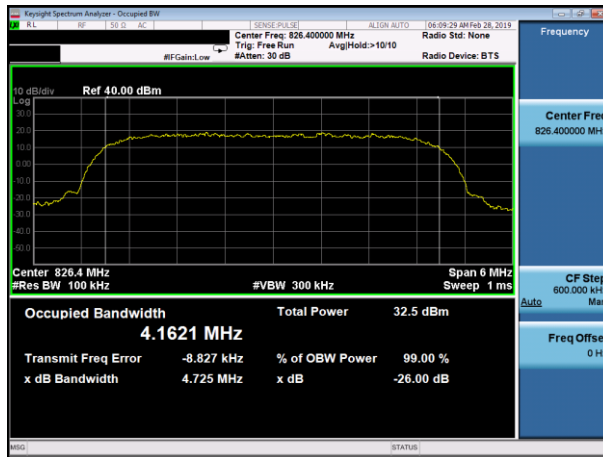
-26dB&99% Bandwidth plot on channel 810



Test plot

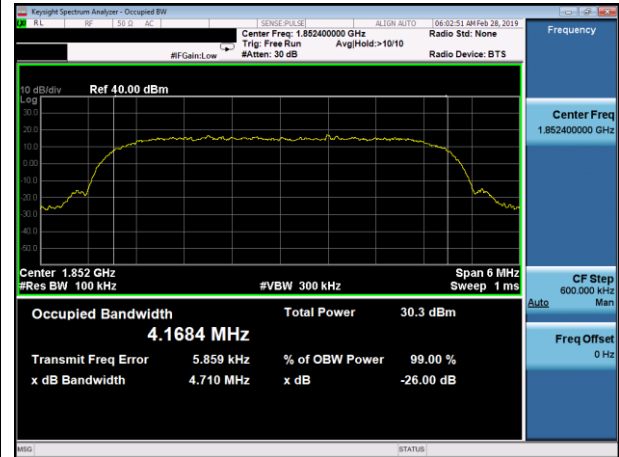
UMTS Band V

-26dB&99% Bandwidth plot on channel 4132

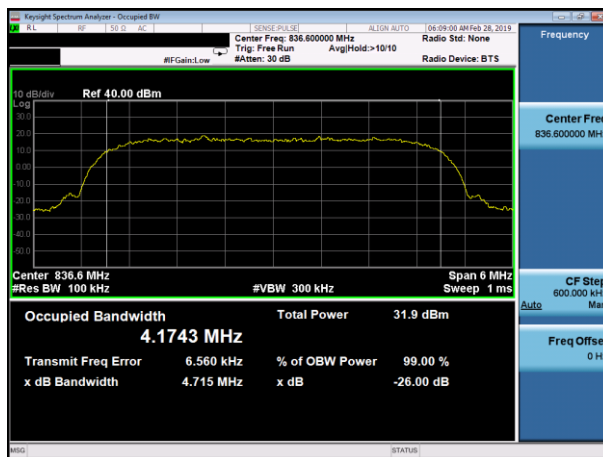


UMTS Band II

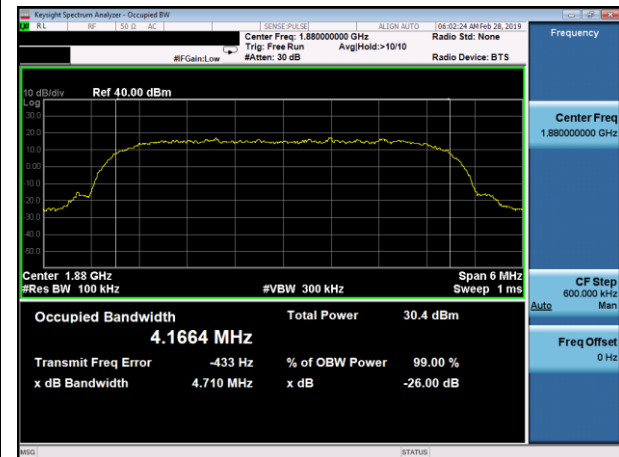
-26dB&99% Bandwidth plot on channel 9262



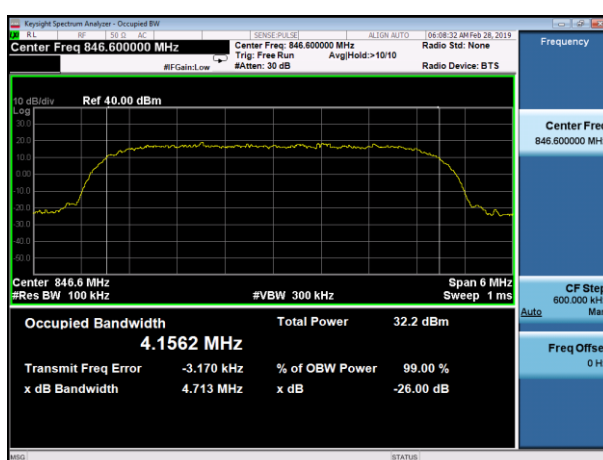
-26dB&99% Bandwidth plot on channel 4183



-26dB&99% Bandwidth plot on channel 9400



-26dB&99% Bandwidth plot on channel 4233



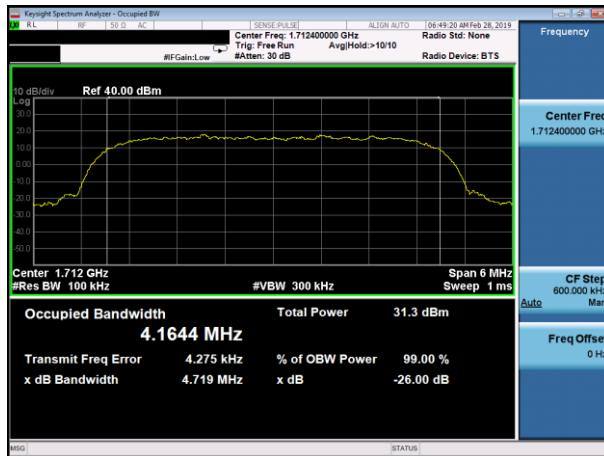
-26dB&99% Bandwidth plot on channel 9538



Test plot

UMTS Band IV

-26dB&99% Bandwidth plot on channel 1312



-26dB&99% Bandwidth plot on channel 1412



-26dB&99% Bandwidth plot on channel 1513

