

# FCC RADIO TEST REPORT

No. 150701-RF

For

Bullitt Group

Product Name: Smartphone

Model Name: SP4

Trade Name: Kodak

Issued Date: 2015-07-10

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of GCCT.

**Test Laboratory:**

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## GENERAL SUMMARY

<b>Product Name</b>	Smartphone
<b>Model Name</b>	SP4
<b>Trade Name</b>	Kodak
<b>Applicant</b>	Bullitt Group
<b>Manufacturer</b>	CK Telecom Limited
<b>Test Laboratory</b>	GCCT, Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center
<b>Reference Standards</b>	FCC CFR 47 Part 22(H):“FCC CFR 47 Part 22:Public Mobile Services” FCC CFR 47 Part 24(E):“FCC CFR 47 Part 24:Radio Frequency Devices” ANSI-TIA-603-C-2004 “Land Mobile FM or PM Communications Equipment Measurement and Performance Standards” FCC KDB 971168 D01,“Power Meas.License Digital system”
<b>Test Conclusion</b>	This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in annex B of this test report are below limits specified in the relevant standards.  General Judgment: <b>Pass</b>  Date of issue:2015.07.10
<b>Comment</b>	The test results in this report apply only to the tested sample of the stated device/equipment.

Approved by:

Reviewed by:

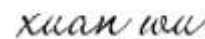
Tested by:



LuoJian  
Manager



Wen Xiaoyong  
Deputy Manager



Wu Xuan  
Test Engineer

## 1. Test Laboratory

### 1.1 Testing Location

Company Name:	GCCT, Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center
CNAS Registration No.	L4992
Address:	Technology Road, High-tech Zone, Heyuan, Guangdong Province, PR.China
Postal Code:	517001
Telephone:	+86-762-3607181
Fax:	+86-762-3603336

### 1.2 Testing Environment

Environment Data	Temperature(°C)	Humidity(%)
Maximum Ambient	27.9	43
Minimum Ambient	22.9	26

EUT is under testing environment.

### 1.3. Project Data

Project Leader:	Wen Xiaoyong
Testing Start Date:	2015-07-06
Testing End Date:	2015-07-10

## 2. Client Information

### 2.1 Applicant Information

<b>Company Name</b>	Bullitt Group
<b>Address</b>	4 The Aquarium, 1-7 King Street, Reading, RG1 2AN, UK
<b>City</b>	/
<b>Postal Code</b>	/
<b>Country</b>	UK

### 2.2 Manufacturer Information

<b>Company Name</b>	CK Telecom Limited
<b>Address</b>	Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China.
<b>City</b>	Heyuan
<b>Postal Code</b>	/
<b>Country</b>	China

## 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

### 3.1 About EUT

<b>Model Name</b>	SP4
<b>FCC ID</b>	ZL5SP4
<b>Tx Frequency</b>	GSM850:824~848 MHz UMTS Band V : 826~846MHz PCS1900 : 1850~1909MHz UMTS Band II : 1852~1907MHz Bluetooth/BLE: 2402 ~ 2480 MHz WIFI(802.11b/g/n-20): 2412 ~ 2462 MHz WIFI(n-40): 2422 ~ 2452 MHz
<b>Rx Frequency</b>	GSM850: 869~893 MHz UMTS Band V : 871~891 MHz PCS1900 : 1930~1989 MHz UMTS Band II : 1932~1987 MHz Bluetooth/BLE: 2402 ~ 2480 MHz WIFI(802.11b/g/n-20): 2412 ~ 2462 MHz WIFI(n-40): 2422 ~ 2452 MHz
<b>Number of Channels</b>	GSM850&WCDMA Band V:25 PCS1900&WCDMA Band II: 60 Bluetooth:79 WIFI(802.11b/g/n-20):11 WIFI(n-40):7 BLE:40
<b>Modulation</b>	GSM&DCS:GMSK WCDMA:BPSK/QPSK Bluetooth: GFSK& $\pi/4$ -DQPSK&8DPSK WIFI:CCK/OFDM BLE:GFSK
<b>Antenna Type</b>	PIFA(GSM/DCS/WCDMA); MONOPOLE (Bluetooth/WIFI)
<b>Antenna Gain</b>	GSM850:-0.5dBi DCS1900: -0.5dBi WCDMA850: -1dBi WCDMA1900: -1dBi Bluetooth/BLE/WIFI: -1dBi
<b>Normal Voltage</b>	3.8V
<b>Extreme Low Voltage</b>	3.6V
<b>Extreme High Voltage</b>	4.2V
<b>Extreme Low Temperature</b>	0°C
<b>Extreme High Temperature</b>	40°C

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: high and low voltage values in extreme condition test are given by manufacturer

### 3.2 Internal Identification of EUT

EUT ID *	IMEI	HW Version	SW Version
150701-M02	356092022307067 356092022307075	SLFQPLUS-V1.0	SLFQPLUS13B-S29A_BULLITT_L7EN_206 _150127
150701-M03	356092022306986 356092022306994	SLFQPLUS-V1.0	SLFQPLUS15A-S00A_CKT_L2EN_102_150 130

\* EUT ID: is used to identify the test sample in the lab internally.150701-M02 and 150701-M03 are the same mobile phone

### 3.3 Internal Identification of AE

AE ID *	Description	Type	SN
150701-C02	Battery	HD395759AR	/
150701-B02	Adapter	A8-510100	/
150701-C03	Battery	HD395759AR	/
150701-B03	Adapter	A8-510100	/

\* AE ID: is used to identify the test sample in the lab internally.150701-B02 and 150701-B03 are the same accessories, 150701-C02 and 150701-C03 are the same accessories.

## 4. Test Results

### 4.1 Summary of Test Results

Items	List	Clause in FCC	Verdict
1	Output Power	22.913(a)/24.232(b)	Pass
2	Frequency Stability	22.355/24.235	Pass
3	Occupied Bandwidth	22.917(a)/24.238(b)	Pass
4	Emission Limit	22.917(b)/ 24.238(b)	Pass
5	Band Edge Compliance	22.917(b)/ 24.238	Pass
6	Conducted Spurious Emission	22.917(a)/24.238(a)	Pass
7	Peak-to-average ratio	24.232(d))	Pass

Note: please refer to Annex B in this test report for the detailed test results.

### 4.2 Statements

GCCT has evaluated the test cases requested by the applicant/manufacture as listed in section 4.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in general summary.



## 5. Test Equipments Utilized

### 5.1 List of Measuring Equipment

**Table 1. RF Test Equipments**

No.	Name	Type	SN	Manufacturer	Cal Date	Cal Due Date
1	Signaling Tester	E5515E	E0111-8	Agilent	2014.08.13	2015.08.13
2	Spectrum Analyzer	N9020A	E0111-9	Agilent	2014.08.13	2015.08.13
3	Switching Unit	/	E0112	/	/	

**Table 2. EMC Test Equipments**

Hardware						
No.	Name	Type	SN	Manufacturer	Cal Date	Cal Due Date
1	Spectrum	E4440A	MY48250641	Agilent	2014.08.13	2015.08.13
2	RF Preselector	N9039A	MY48260024	Agilent	2014.08.13	2015.08.13
3	BiCoNilog	3142E	00142015	ETS-Lindgren	2014.08.13	2015.08.13
4	Horn Antenna	3117	00129169	ETS-Lindgren	2014.08.13	2015.08.13
5	RF Notch filter	/	/	ETS-Lindgren	2014.08.13	2015.08.13
6	Power Meter	N1913A	MY50000213	Agilent	2014.08.13	2015.08.13
7	Universal Radio Communication Tester	8960	MY48367105	Agilent	2014.08.13	2015.08.13
Software						
1	Software	TILE4.5	/	ETS-Lindgren	/	

**Table 3. OTA Test Equipments**

Hardware						
No.	Name	Type	SN	Manufacturer	Cal Date	Cal Due Date
1	Spectrum	N9020A	MY49101012	Agilent	2014.08.13	2015.08.13
2	Universal Radio	E5515C	MY48367103	Agilent	2014.08.13	2015.08.13
3	Switch/Control Mainframe	3499C	MY42000534	Agilent	2014.08.13	2015.08.13
4	Positioning	2090	00119389	ETS-Lindgren	2014.08.13	2015.08.13

Software					
1	Software	EMQuest™	/	ETS-Lindgren	/
2	Software	EMQ-108	/	ETS-Lindgren	/

## 5.2 Climate Chamber

No.	Name	Type	SN	Manufacturer	Cal Date	Cal Due Date
1	Climate Chamber	MW3030	09114081	ESPEC	2014.08.13	2015.08.13

## ANNEX A: EUT Photograph

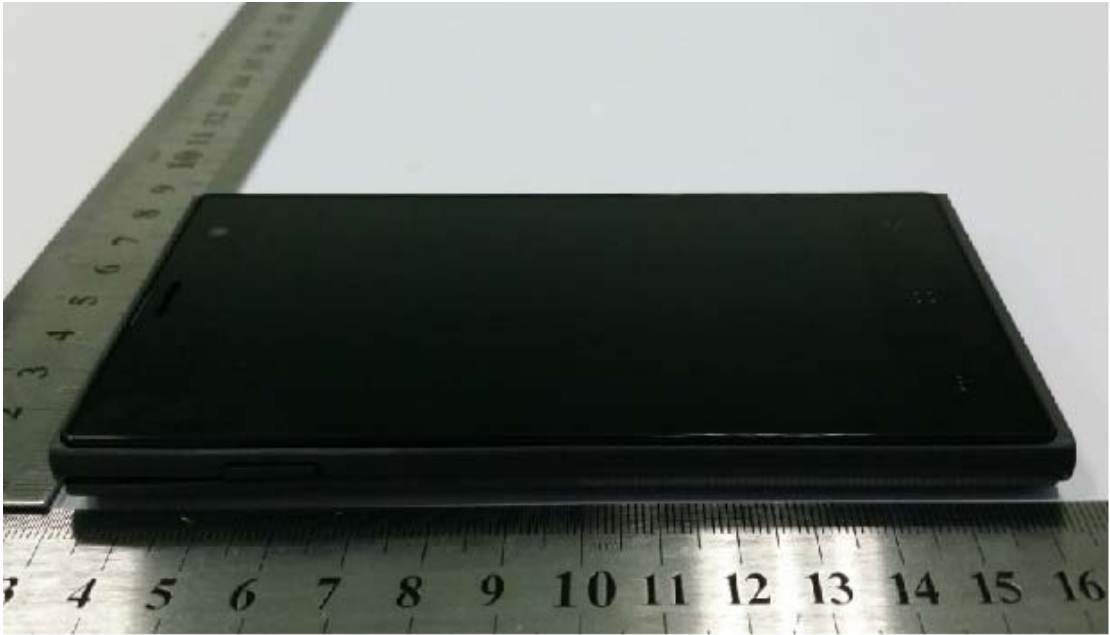
EUT -Top View



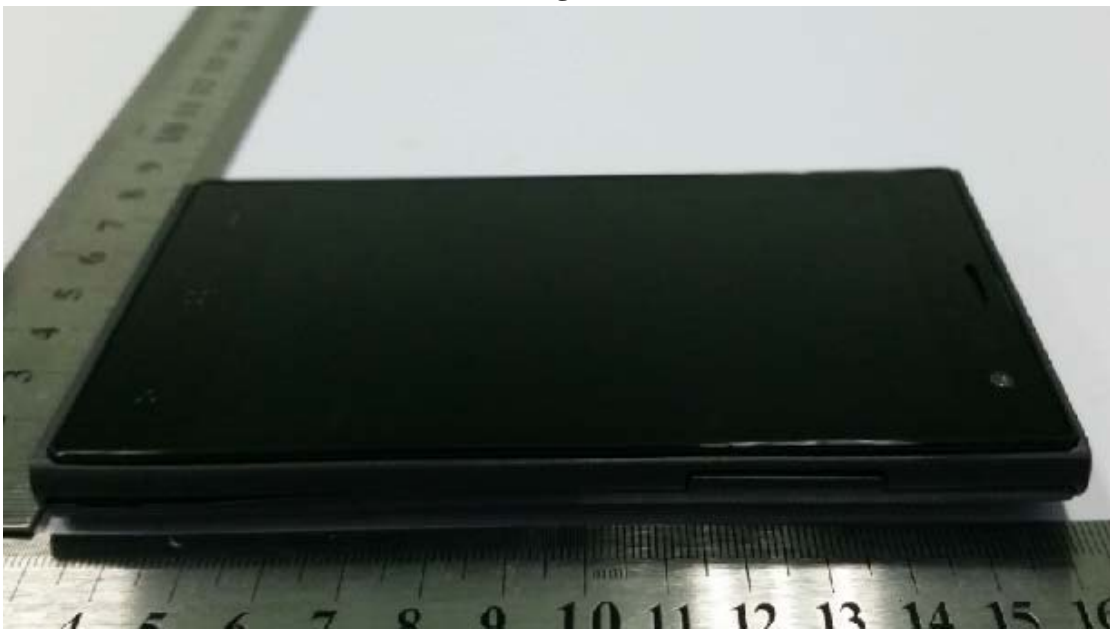
EUT-Bottom View



**EUT -Left View**



**EUT -Right View**



**EUT-Front View**



**EUT -Rear View**



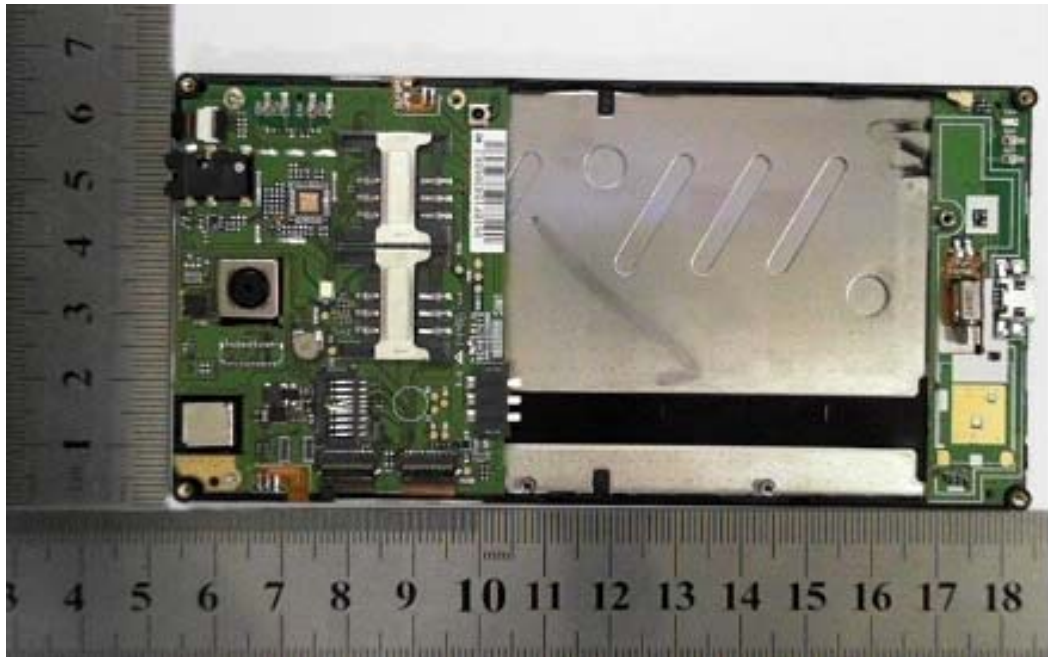
Cover off-Top view



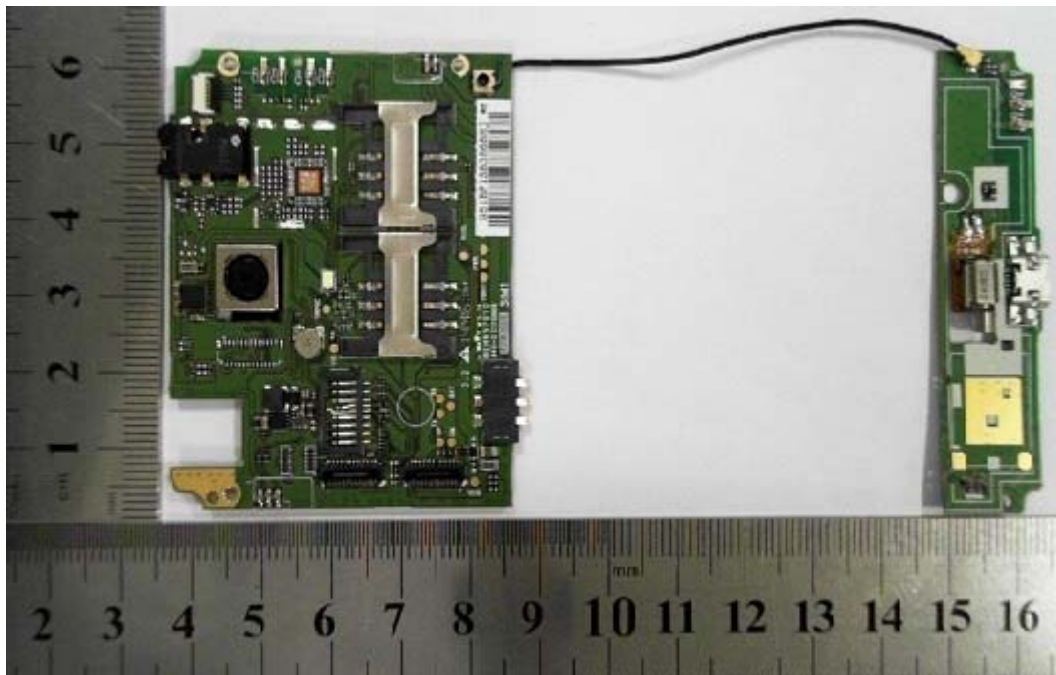
All



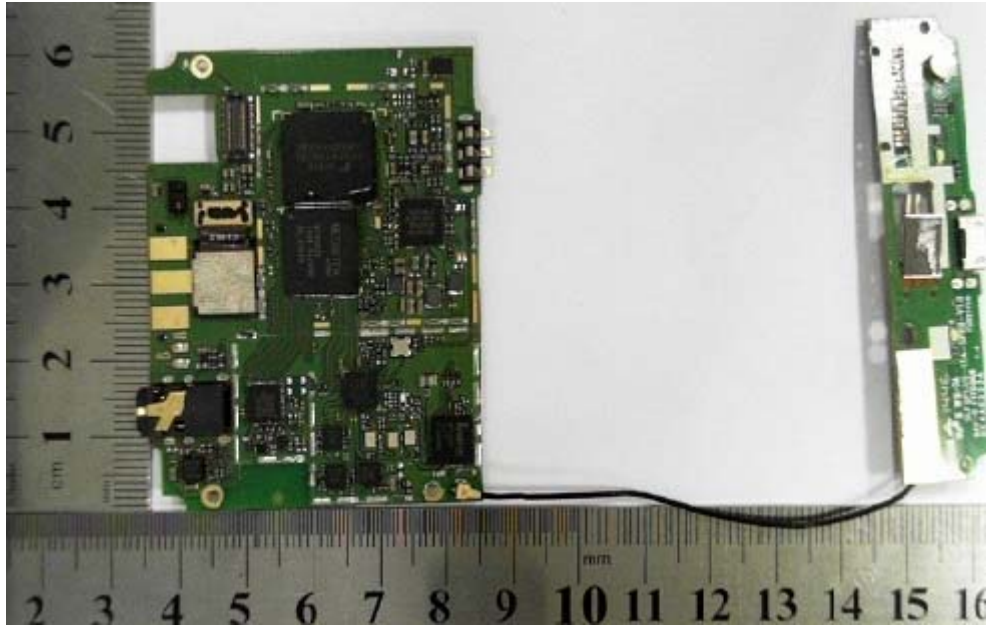
**Main board With shielding -Front View**



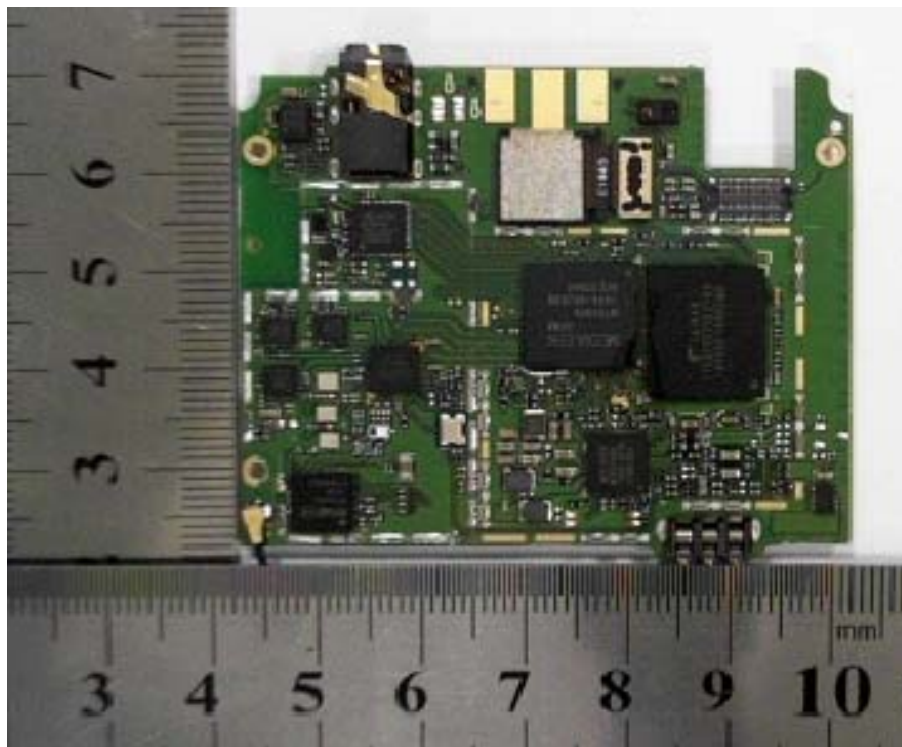
**Main board Without shielding -Front View**



Main board- RearView



Main board- RearView





**Headset**



**USB cable**



**GSM/DCS Antenna View**



**BT Antenna View**



### Battery View



### Adapter label view



Adapter view



## ANNEX B: Detailed Test Results

### B.1 Output Power(22.913(a)/24.232(b))

#### B.1.1 Conducted Output Power Measurement

##### B.1.1.1 Description

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

##### B. 1.1.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT as maximum power through base station.
3. There measurements were done at 3 frequencies,824.2MHz, 836.6MHz and 848.8MHz for GSM850 band;1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900 band.

##### B.1.1.3 Test Setup



##### B.1.1.4 Test Results

#### GSM850

##### Limit

Power step	Peak output power(dBm)	Tolerance(dB)
5	≤33dBm(2W)	±2

##### Measurement result

#### GSM

Frequency(MHz)	Channel No.	Power Step	Peak output power(dBm)	Verdict
824.2	128	5	32.23	Pass
836.6	190		32.20	Pass
848.8	251		32.07	Pass

#### GPRS

Frequency(MHz)	Channel No.	Power Step	Peak output power(dBm)	Verdict
824.2	128	5	32.13	Pass
836.6	190		32.19	Pass
848.8	251		32.06	Pass

#### PCS1900

##### Limit

Power step	Peak output power(dBm)	Tolerance(dB)
0	≤30dBm(1W)	±2

##### Measurement result

#### GSM

Frequency(MHz)	Channel No.	Power Step	Peak output power(dBm)	Verdict
1850.2	512	0	30.32	Pass
1880.0	661	0	30.44	Pass
1909.8	810	0	30.33	Pass

### GPRS

Frequency(MHz)	Channel No.	Power Step	Peak output power(dBm)	Verdict
1850.2	512	5	30.54	Pass
1880.0	661		30.39	Pass
1909.8	810		30.20	Pass

### WCDMA Band V and Band II

#### Limit

Band	Power step	Peak output power(dBm)	Tolerance(dB)
II,V	3	≤24dBm(1W)	+1.7/-3.7

#### Band II

Band/Time slot configuration	Frequency(MHz)	Channel	Power Class	Peak output power(dBm)	Verdict
RMC (12.2kbps)	1852.6	9263	3	23.41	Pass
	1880.0	9400		23.45	
	1907.6	9538		23.17	
HSDPA Subtest 1	1852.6	9263		22.48	Pass
	1880.0	9400		22.22	
	1907.6	9538		21.86	
HSDPA Subtest 2	1852.6	9263		22.6	Pass
	1880.0	9400		22.27	
	1907.6	9538		21.87	
HSDPA Subtest 3	1852.6	9263		22.13	Pass
	1880.0	9400		21.81	
	1907.6	9538		21.5	
HSDPA Subtest 4	1852.6	9263		22.14	Pass
	1880.0	9400		21.83	
	1907.6	9538		21.49	
HSUPA Subtest 1	1852.6	9263		20.63	Pass
	1880.0	9400		20.36	
	1907.6	9538		20.05	
HSUPA Subtest 2	1852.6	9263	20.63	Pass	
	1880.0	9400	20.45		
	1907.6	9538	20.02		
HSUPA Subtest 3	1852.6	9263	21.64	Pass	
	1880.0	9400	21.48		
	1907.6	9538	21		

HSUPA Subtest 4	1852.6	9263		20.08	Pass
	1880.0	9400		19.83	
	1907.6	9538		19.45	
HSUPA Subtest 5	1852.6	9263		22.51	Pass
	1880.0	9400		22.12	
	1907.6	9538		21.19	

## Band V

Band/Time slot configuration	Frequency(MHz)	Channel	Power Class	Peak output power(dBm)	Verdict
RMC (12.2kbps)	826.6	4133	3	22.83	Pass
	835.0	4175		22.95	
	846.4	4232		22.42	
HSDPA Subtest 1	826.6	4133		21.86	Pass
	835.0	4175		22.05	
	846.4	4232		21.38	
HSDPA Subtest 2	826.6	4133		21.94	Pass
	835.0	4175		22.09	
	846.4	4232		21.34	
HSDPA Subtest 3	826.6	4133		21.48	Pass
	835.0	4175		21.64	
	846.4	4232		20.99	
HSDPA Subtest 4	826.6	4133		21.48	Pass
	835.0	4175		21.65	
	846.4	4232		20.97	
HSUPA Subtest 1	826.6	4133		20.35	Pass
	835.0	4175		19.92	
	846.4	4232		19.14	
HSUPA Subtest 2	826.6	4133		20.41	Pass
	835.0	4175		19.9	
	846.4	4232	19.1		
HSUPA Subtest 3	826.6	4133	20.39	Pass	
	835.0	4175	20.93		
	846.4	4232	20.09		
HSUPA Subtest 4	826.6	4133	19.81	Pass	
	835.0	4175	19.31		
	846.4	4232	19.53		
HSUPA Subtest 5	826.6	4133	22.27	Pass	
	835.0	4175	21.9		
	846.4	4232	21.06		

## B.1.2 Radiated Power

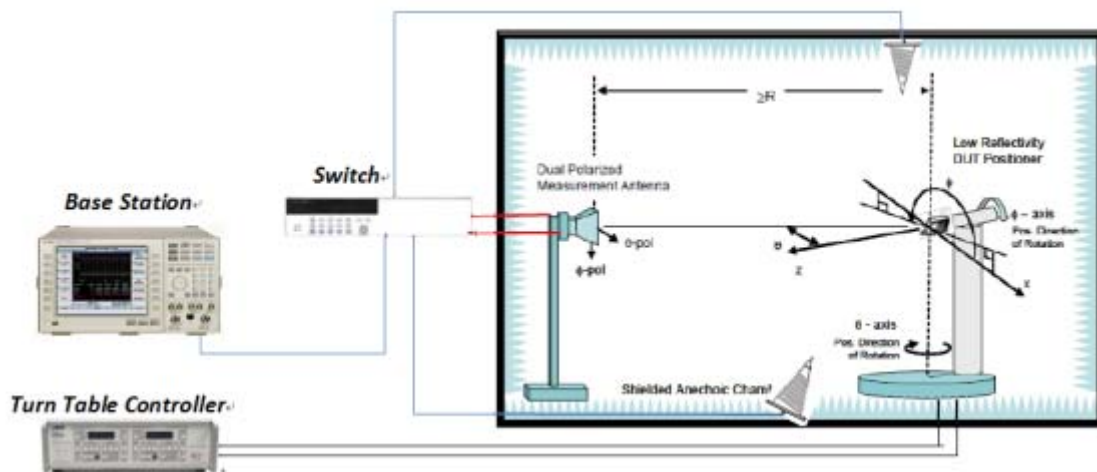
### B.1.2.1 Description

This is the test for the maximum radiated power from the EUT. Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitter and auxiliary test transmitters must not exceed 7 Watts."

### B.1.2.2 Test Procedures

1. 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.
2. A "reference path loss" is established as  $P_{in} + 2.15 - P_r$ .
3. The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
4. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
5. The EUT is then put into pulse mode at its maximum power level (Power Step 0 for PCS1900,5 for GSM 850).
6. "Gated mode" power 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.
7. 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 ( $P_{in}$ ).
8. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15dBi$ .

### B.1.2.3 Test Setup



### B.1.2.4 Test Result of ERP

#### GSM850

Frequency(MHz)	Channel No.	Power Step	ERP(dBm)	Verdict
824.2	128	5	29.81	Pass
836.6	190	5	29.67	Pass



848.8	251	5	29.58	Pass
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### WCDMA Band V

Frequency(MHz)	Channel No.	Power Step	ERP(dBm)	Verdict
826.6	4133	3	21.09	Pass
835	4175	3	19.87	Pass
846.4	4232	3	20.36	Pass

### B1.2.4 Test Result of EIRP

#### GSM1900

Frequency(MHz)	Channel	Power Step	EIRP(dBm)	Verdict
1850.2	512	0	30.38	Pass
1880.0	661	0	31.05	Pass
1909.8	810	0	30.87	Pass

#### WCDMA Band II

Frequency(MHz)	Channel	Power Class	EIRP(dBm)	Verdict
1852.6	9263	3	22.79	Pass
1880.0	9400	3	22.81	Pass
1907.6	9538	3	22.72	Pass

## B.2 Frequency Stability(22.355/24.235)

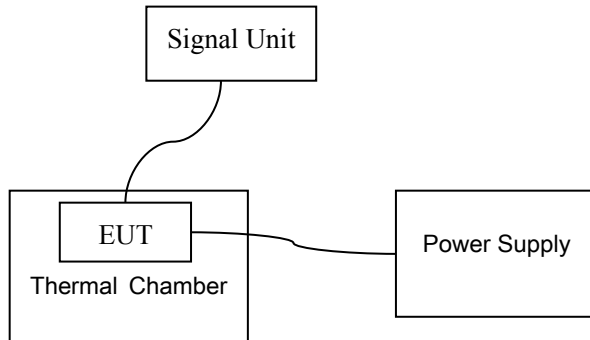
### B.2.1 Description

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that fundamental emission stays within the authorized frequency block. The frequency stability of transmitter shall be maintained within  $\pm 0.00023\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### B.2.2 Test Procedure for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-20^{\circ}\text{C}$  and the EUT was stabilized for three hours. Power was applied and maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step to  $50^{\circ}\text{C}$ . 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.
4. if the EUT cannot be turned on at  $-30^{\circ}\text{C}$ , the testing lowest temperature will be raised in  $10^{\circ}\text{C}$  step until the EUT can be turned on.

#### B.2.2.1 Test Setup



### B.2.2.2 Test Results

#### GSM850

Temperature (°C)	Frequency Error (Hz)	ppm	Limit	Verdict
-20	/	/	≤±2.5ppm	/
-10	/	/		/
0	-2.95	0.0035		Pass
10	7.41	0.0087		Pass
20	3.31	0.0039		Pass
30	3.07	0.0036		Pass
40	1.62	0.0020		Pass
50	/	/		/
55	/	/		/

#### GSM1900

Temperature (°C)	Frequency Error (Hz)	ppm	Limit	Verdict
-20	/	/	≤±2.5ppm	/
-10	/	/		/
0	2.59	0.0014		Pass
10	-5.60	0.0030		Pass
20	-16.70	0.0088		Pass
30	-15.83	0.0083		Pass
40	-16.78	0.0088		Pass
50	/	/		/
55	/	/		/

#### WCDMA Band II

Temperature (°C)	Frequency Error (Hz)	ppm	Limit	Verdict
-20	/	/	≤±2.5ppm	/
-10	/	/		/
0	3.56	0.0042		Pass
10	5.23	0.0062		Pass
20	2.66	0.0031		Pass
30	1.34	0.0016		Pass

40	2.86	0.0034		Pass
50	/	/		/
55	/	/		/

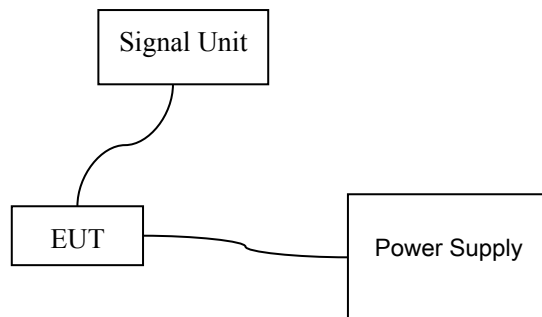
### WCDMA Band V

Temperature (°C)	Frequency Error (Hz)	ppm	Limit	Verdict
-20	/	/	≤±2.5ppm	/
-10	/	/		/
0	20.15	0.0106		Pass
10	19.64	0.0103		Pass
20	18.35	0.0097		Pass
30	17.36	0.0091		Pass
40	15.33	0.0081		Pass
50	/	/		/
55	/	/		/

### B.2.3 Test Procedure for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5°C and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured.

#### B.2.3.1 Test Setup



#### B.2.3.2 Test Results:

Band	Voltage (V)	Freq.Dev.(Hz)	Dev.(ppm)	Limit(ppm)	Verdict
GSM850	3.6	2.38	0.0013	≤±2.5ppm	Pass
	3.7	3.33	0.0018		Pass
	4.2	5.12	0.0027		Pass
GSM1900	3.6	16.22	0.0085		Pass
	3.7	15.36	0.0081		Pass
	4.2	17.32	0.0091		Pass
WCDMA Band II	3.6	6.32	0.0033		Pass
	3.7	5.78	0.0030		Pass

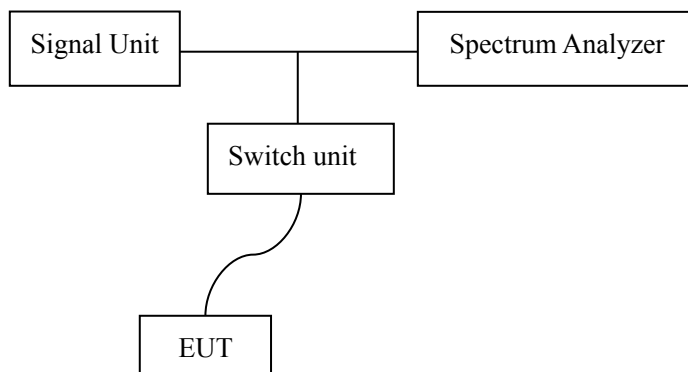
	4.2	4.33	0.0023		Pass
WCDMA Band V	3.6	19.68	0.0104		Pass
	3.7	18.32	0.0096		Pass
	4.2	17.22	0.0091		Pass

## B.3 Occupied Bandwidth(22.917(a)/24.238(b))

### B.3.1 Description

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. The table below lists the measured -20dBc BW(99%). Spectrum analyzer plots are included on the following pages.

### B.3.2 Test Setup



### B.3.3 Test Results

Band	CH	Frequency(MHz)	Result	Verdict
GSM850	128	824.2	Fig.1	Pass
	190	836.6	Fig.2	Pass
	251	848.8	Fig.3	Pass
GSM1900	512	1850.2	Fig.4	Pass
	661	1880.0	Fig.5	Pass
	810	1909.8	Fig.6	Pass
WCDMA Band V	4133	824.2	Fig.7	Pass
	4175	835	Fig.8	Pass
	4233	848.8	Fig.9	Pass
WCDMA Band V HSDPA Subtest 1	4133	824.2	Fig.10	Pass
	4175	835	Fig.11	Pass
	4233	848.8	Fig.12	Pass
WCDMA Band V HSUPA Subtest 5	4133	824.2	Fig.13	Pass
	4175	835	Fig.14	Pass
	4233	848.8	Fig.15	Pass
WCDMA Band II	9263	1850.2	Fig.16	Pass

	9400	1880.0	Fig.17	Pass
	9538	1909.8	Fig.18	Pass
WCDMA Band II	9263	1850.2	Fig.19	Pass
HSDPA	9400	1880.0	Fig.20	Pass
Subtest 1	9538	1909.8	Fig.21	Pass
WCDMA Band II	9263	1850.2	Fig.22	Pass
HSUPA	9400	1880.0	Fig.23	Pass
Subtest 5	9538	1909.8	Fig.24	Pass

Fig.1 GSM850-CH128 Occupied Bandwidth



Fig.2 GSM850-CH190 Occupied Bandwidth

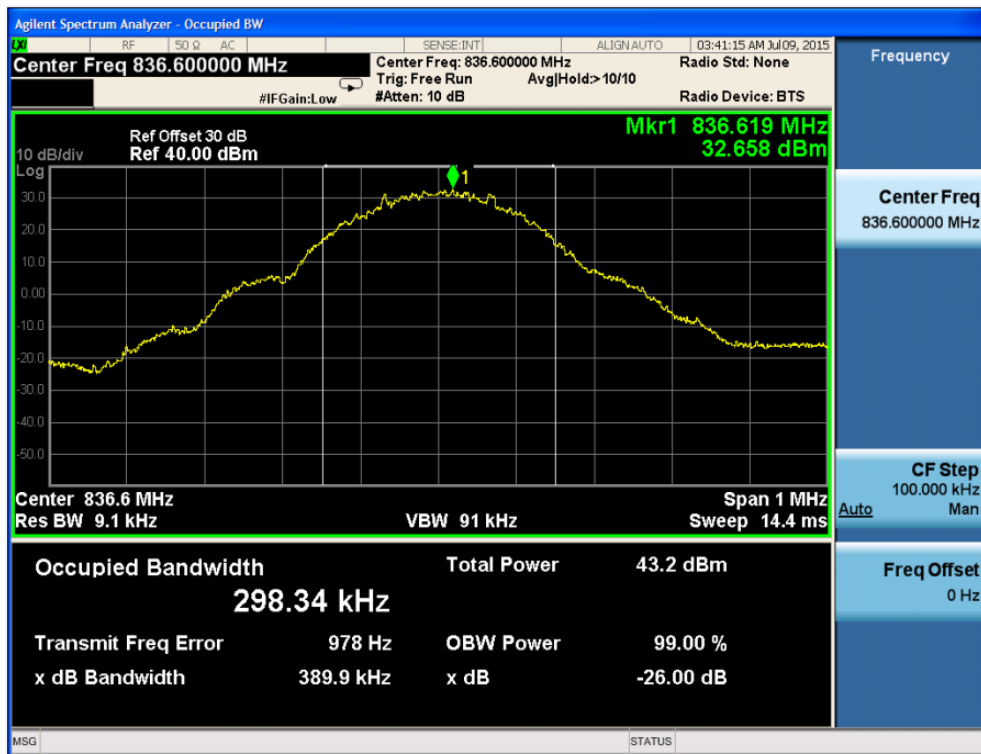


Fig.3 GSM850-CH251 Occupied Bandwidth

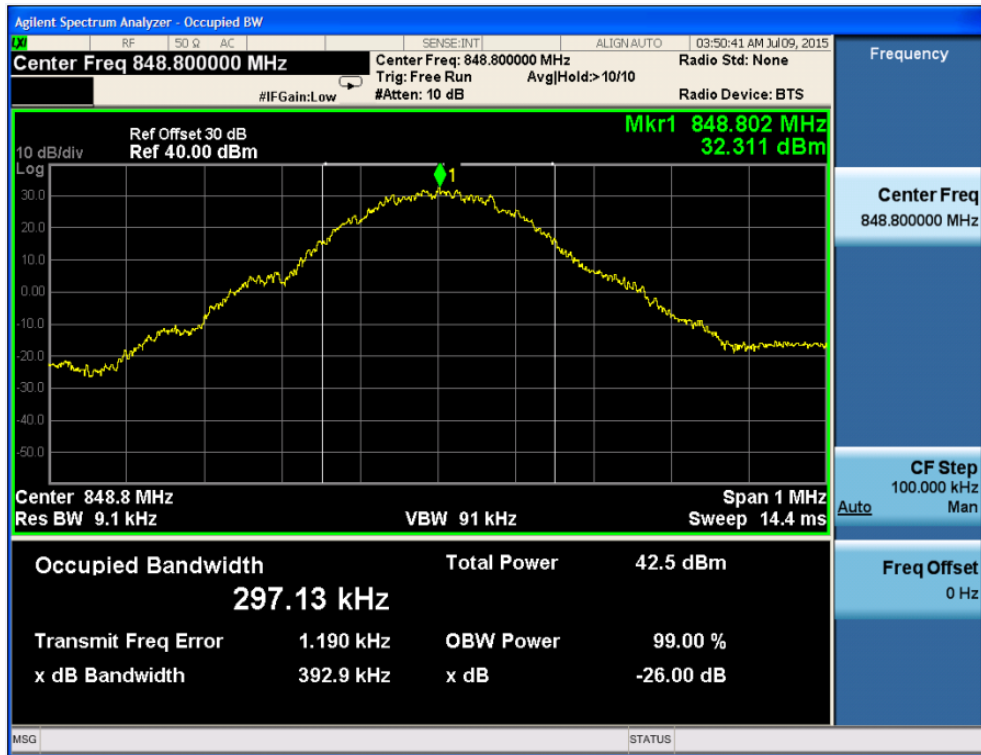


Fig.4 GSM1900-CH512 Occupied Bandwidth

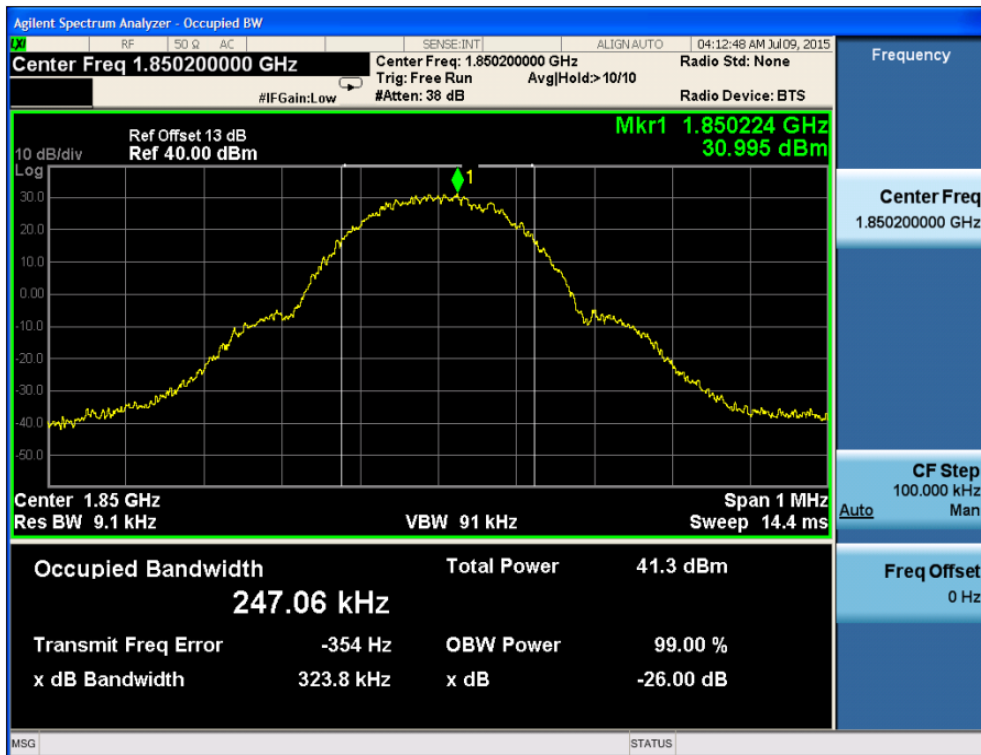


Fig.5 GSM1900-CH661 Occupied Bandwidth

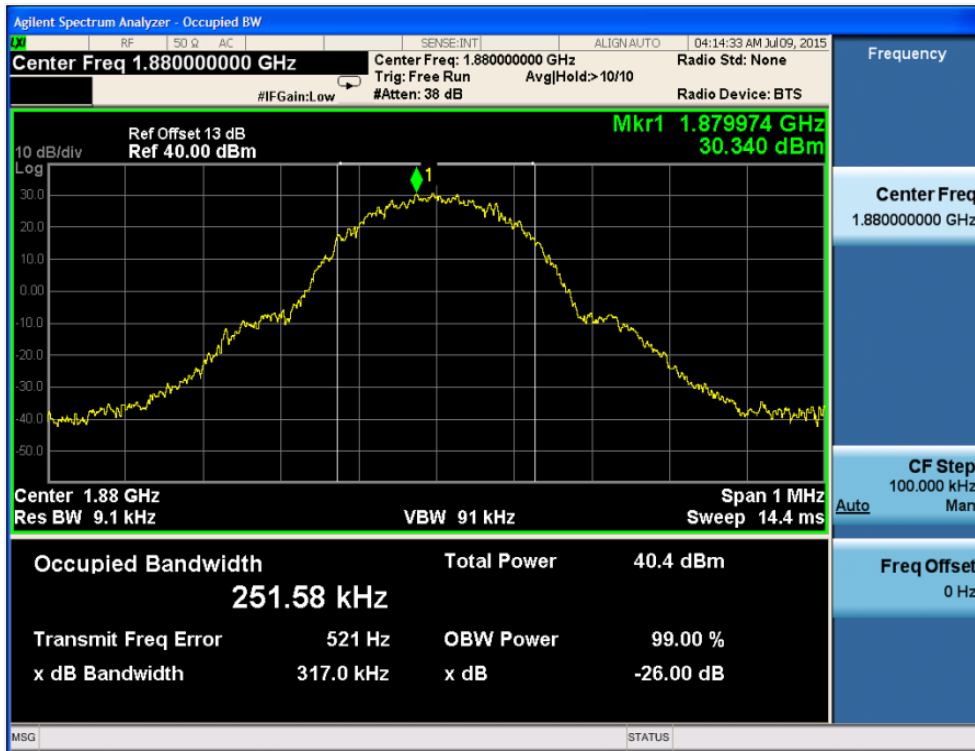


Fig.6 GSM1900-CH810 Occupied Bandwidth

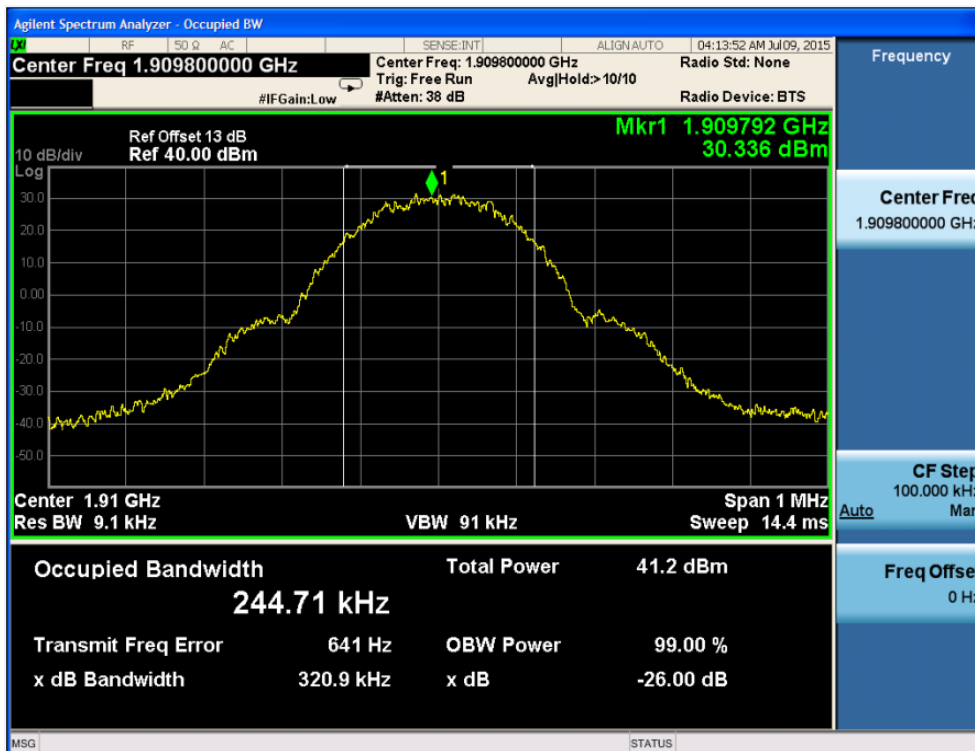




Fig.7 WCDMA Band V-CH4133 Occupied Bandwidth

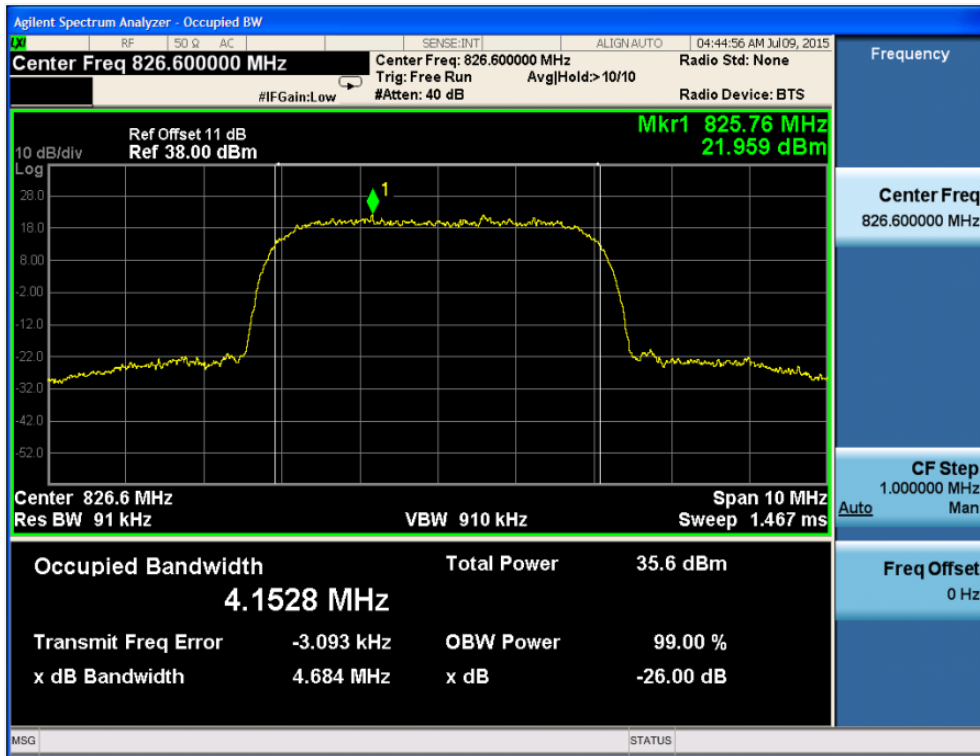
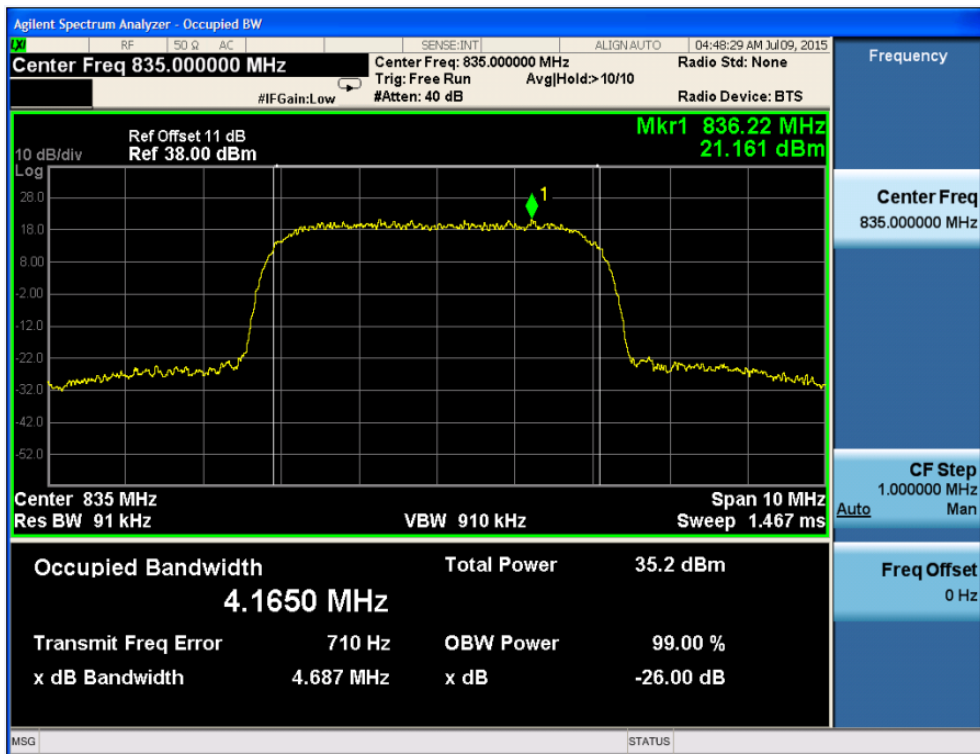
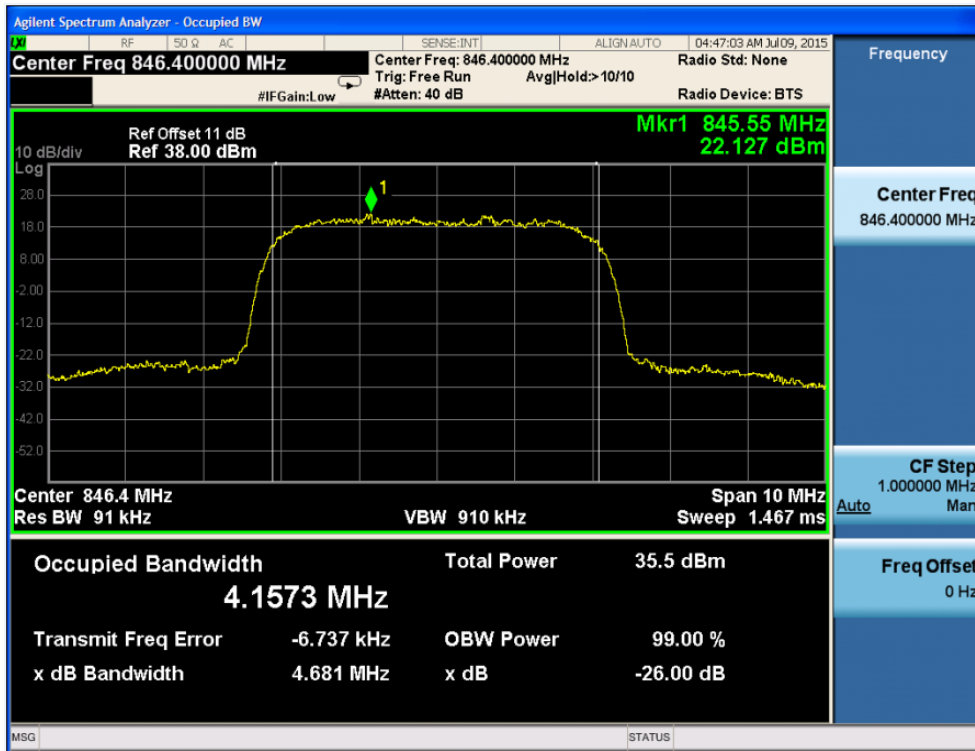


Fig.8 WCDMA Band V-CH4175 Occupied Bandwidth



**Fig.9 WCDMA Band V-CH4232 Occupied Bandwidth**



**Fig.10 WCDMA Band V-CH4133 Occupied Bandwidth (HSDPA Subtest 1)**

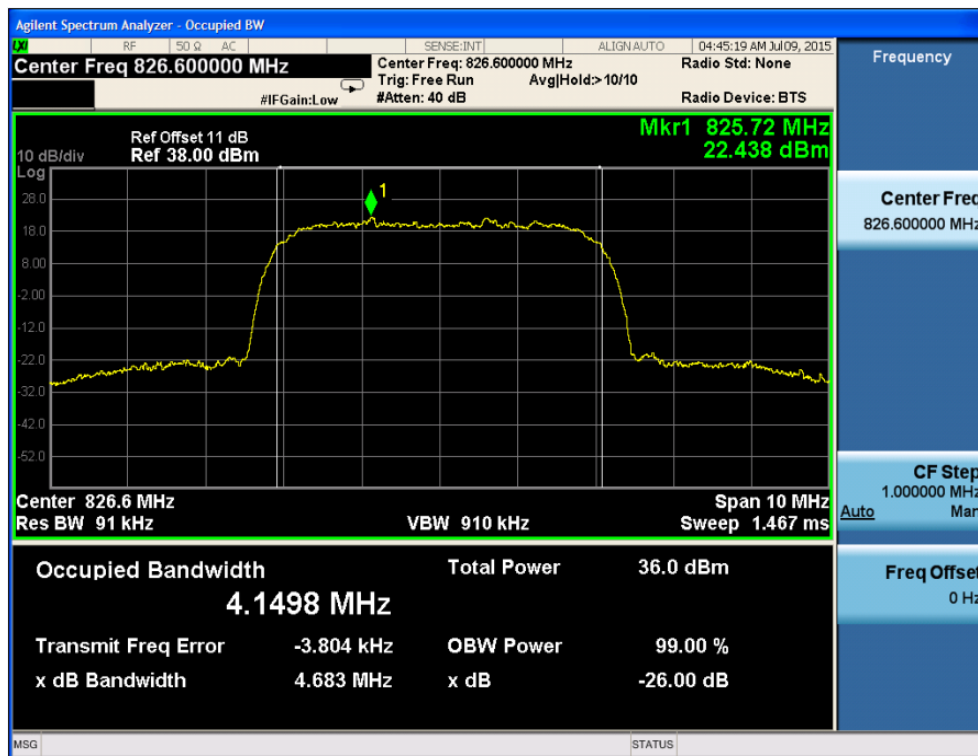


Fig.11 WCDMA Band V-CH4175 Occupied Bandwidth (HSDPA Subtest 1)

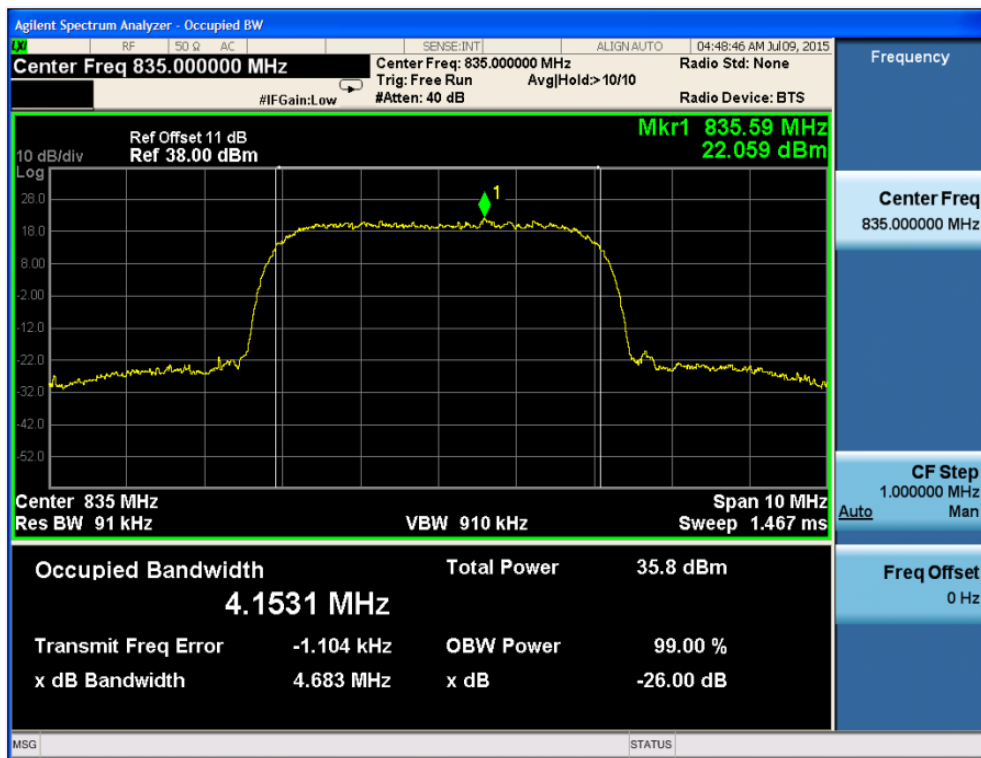


Fig.12 WCDMA Band V-CH4232 Occupied Bandwidth (HSDPA Subtest 1)

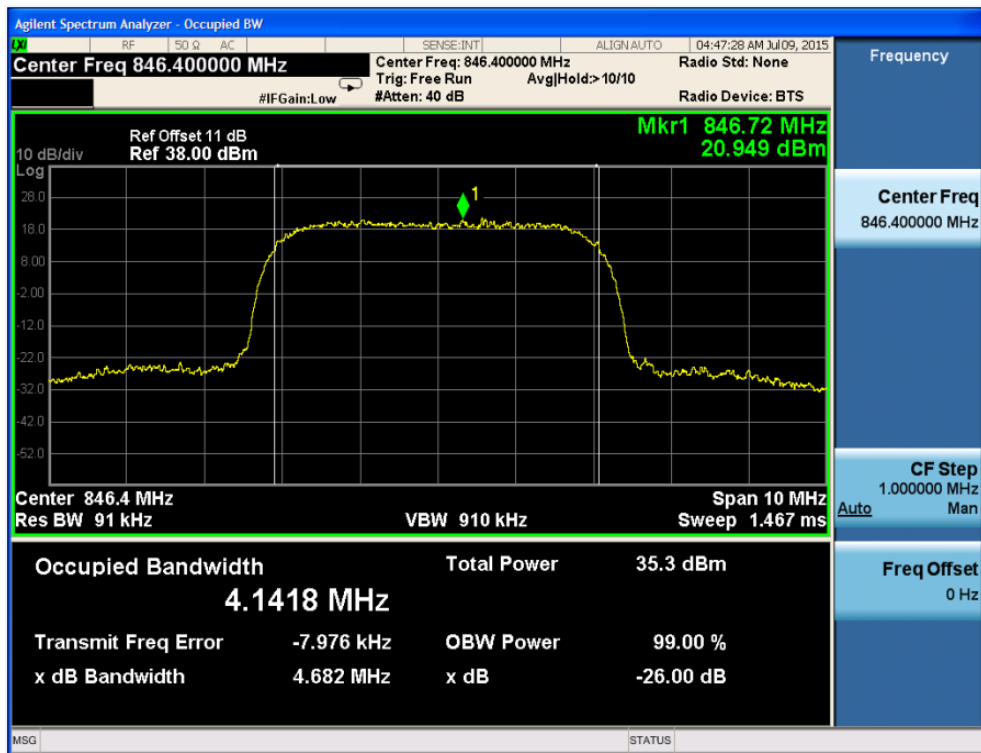


Fig.13 WCDMA Band V-CH4133 Occupied Bandwidth (HSUPA Subtest 5)

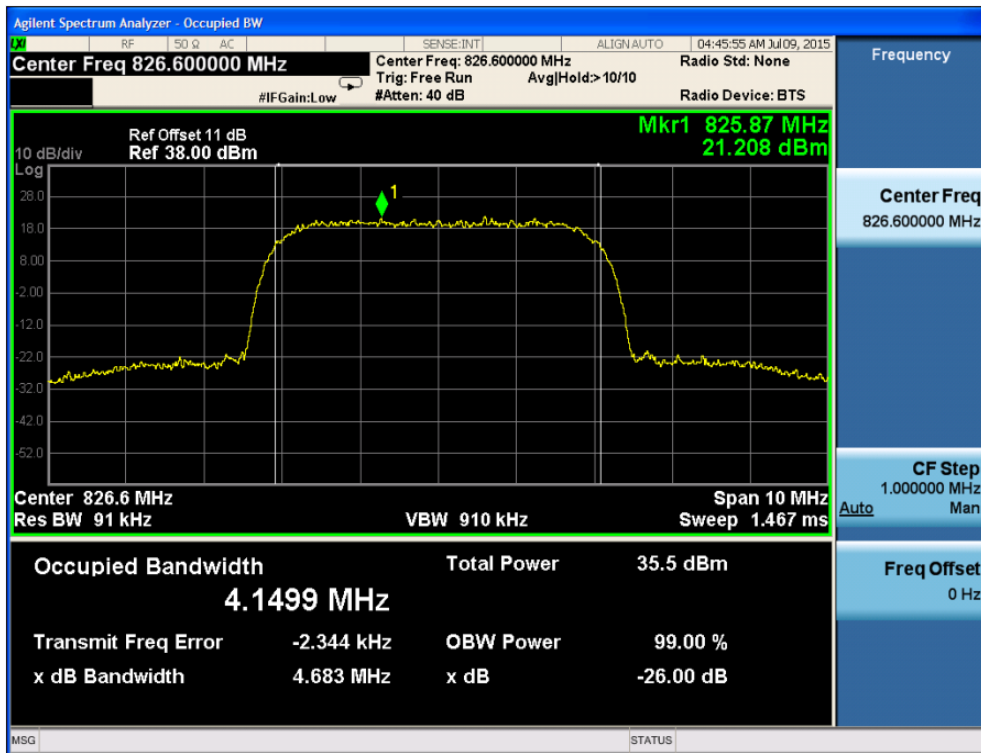


Fig.14 WCDMA Band V-CH4175 Occupied Bandwidth (HSUPA Subtest 5)

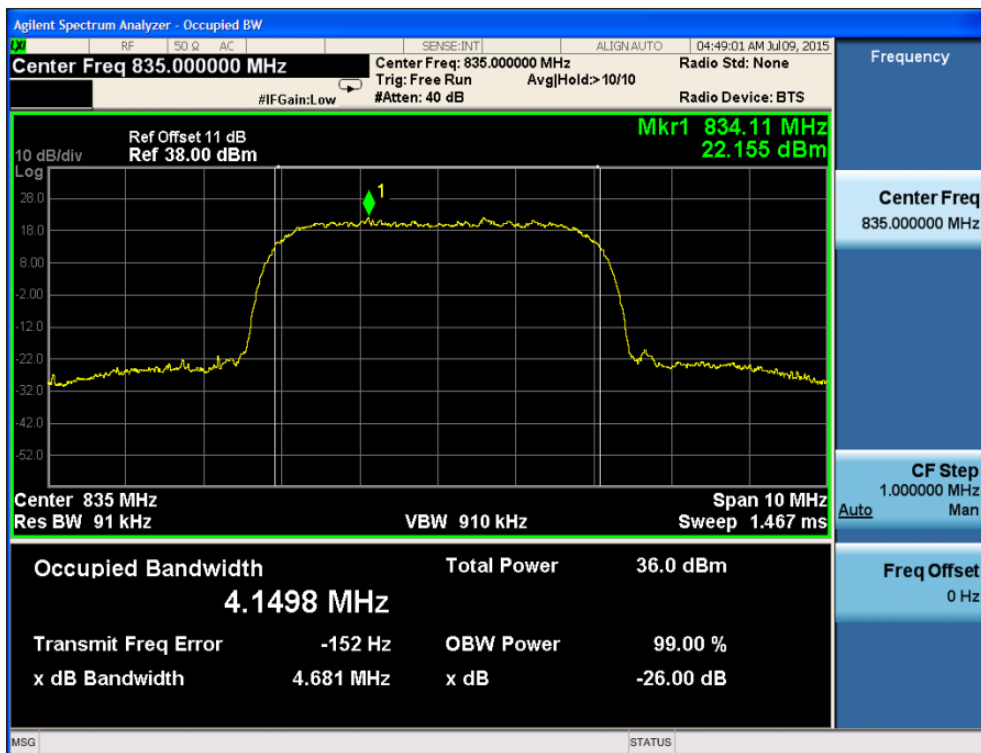


Fig.15 WCDMA Band V-CH4232 Occupied Bandwidth (HSUPA Subtest 5)

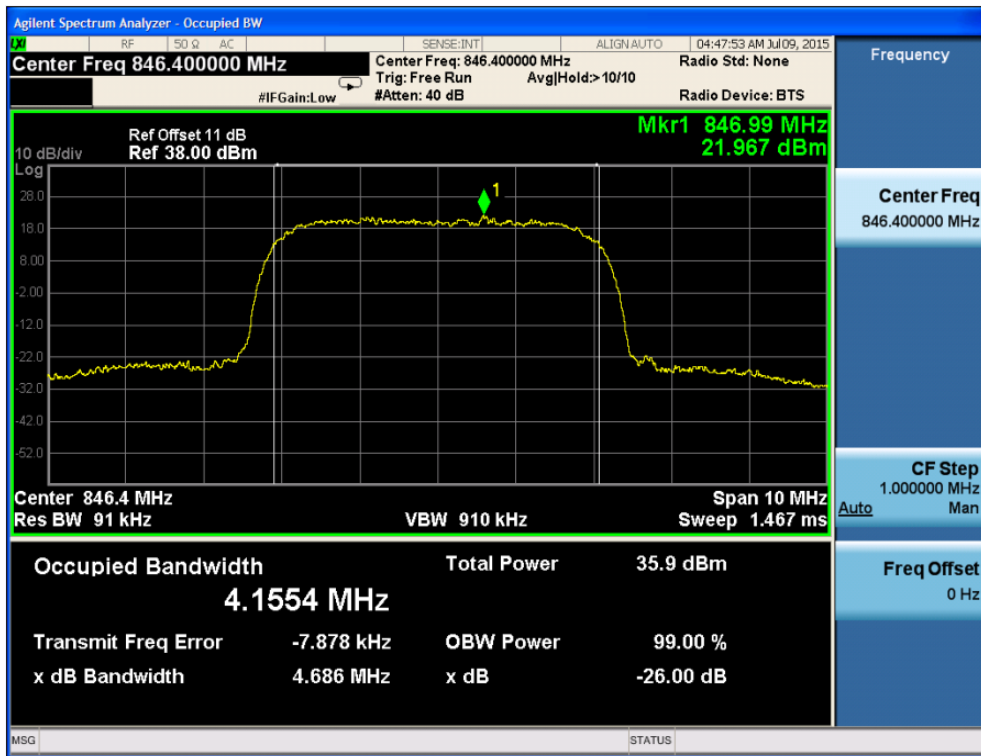


Fig.16 WCDMA Band II-CH9263 Occupied Bandwidth

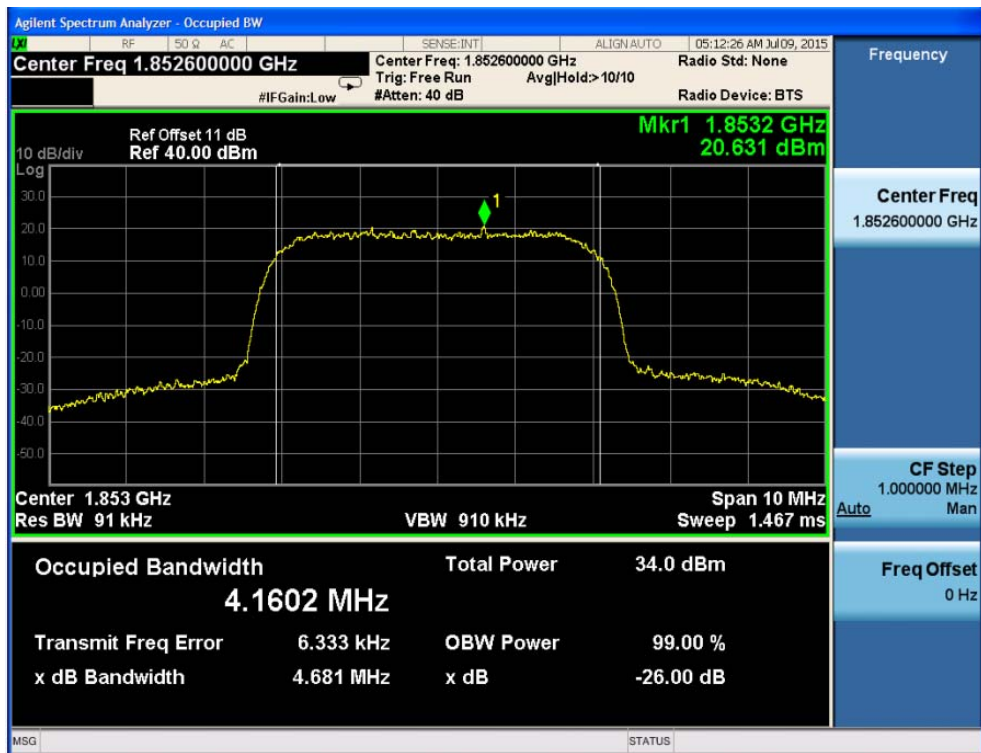


Fig.17 WCDMA Band II-CH9400 Occupied Bandwidth

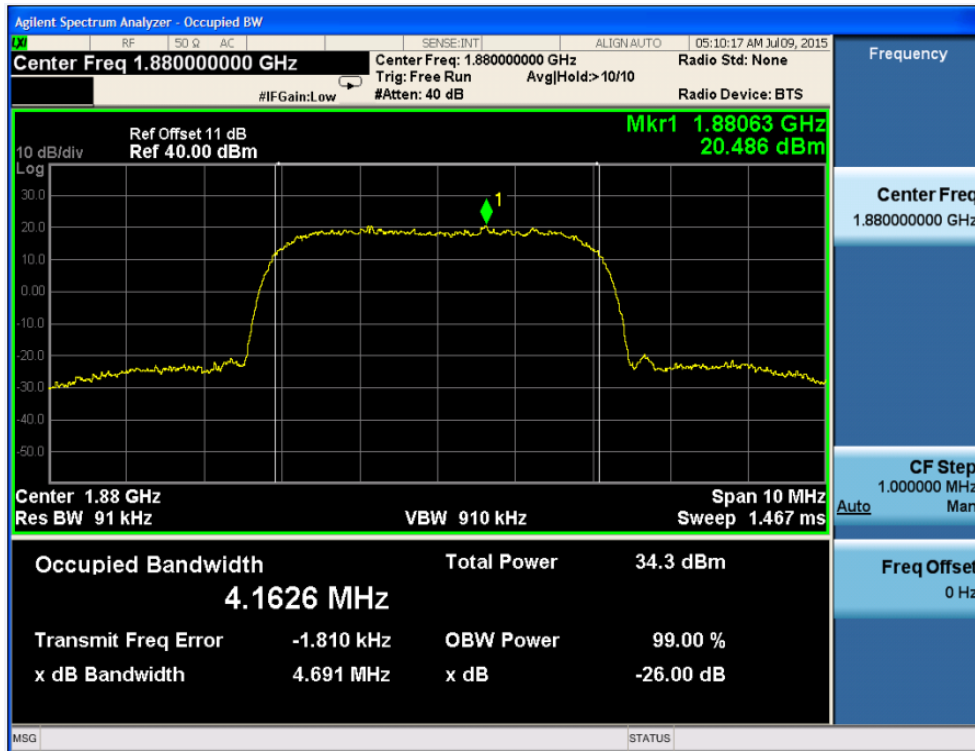


Fig.18 WCDMA Band II-CH9538 Occupied Bandwidth

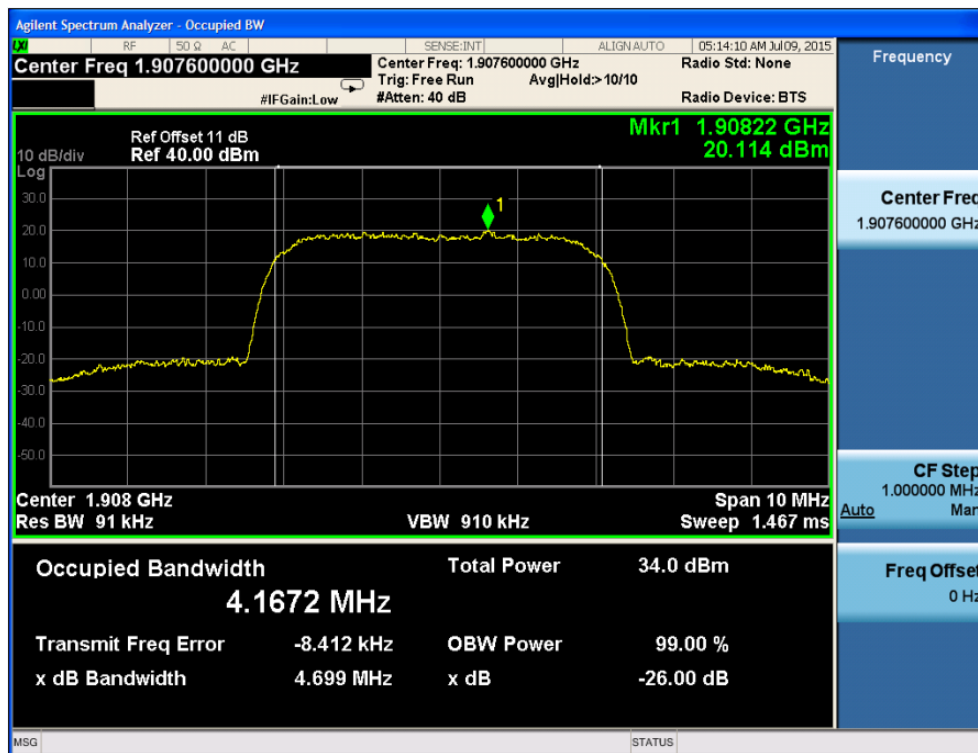


Fig.19 WCDMA Band II-CH9263 Occupied Bandwidth (HSDPA Subtest 1)

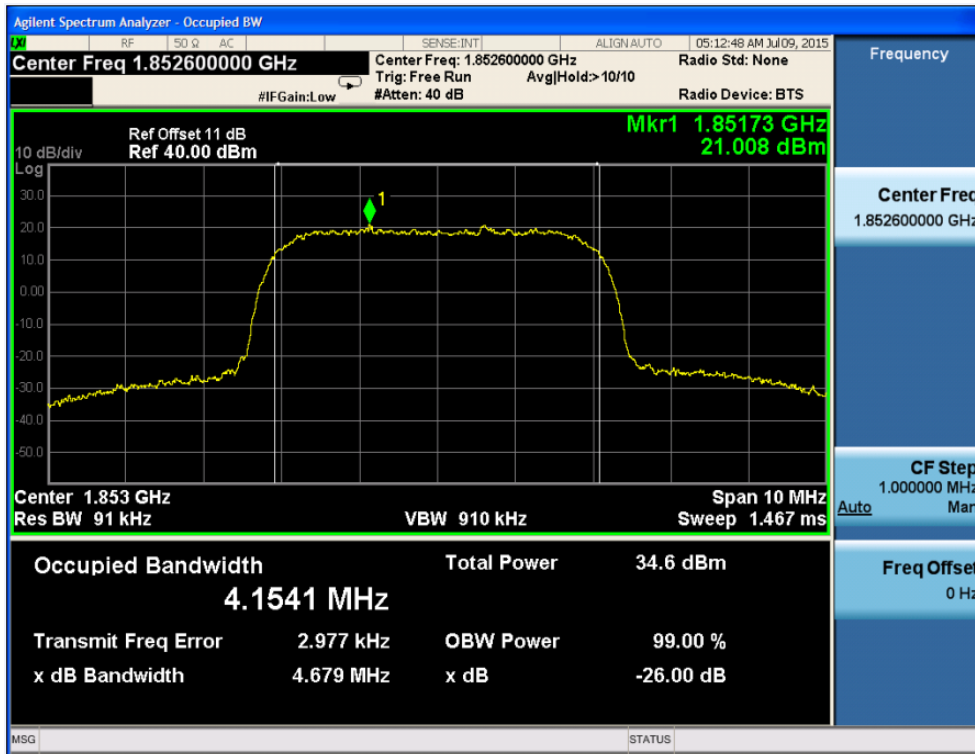


Fig.20 WCDMA Band II-CH9400 Occupied Bandwidth (HSDPA Subtest 1)

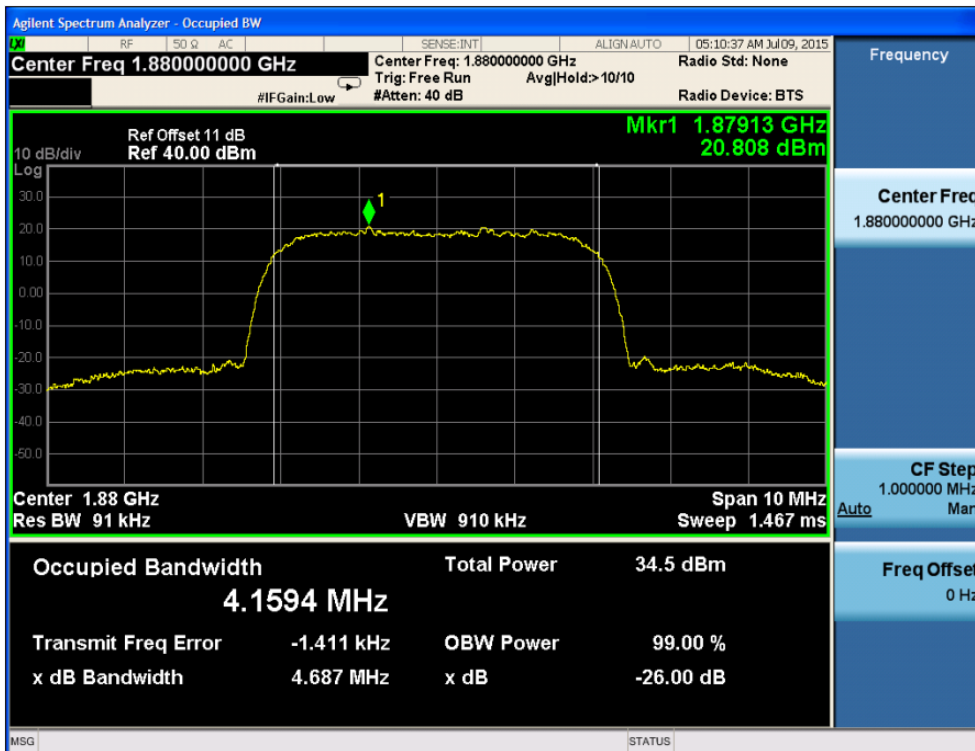


Fig.21 WCDMA Band II-CH9538 Occupied Bandwidth (HSDPA Subtest 1)

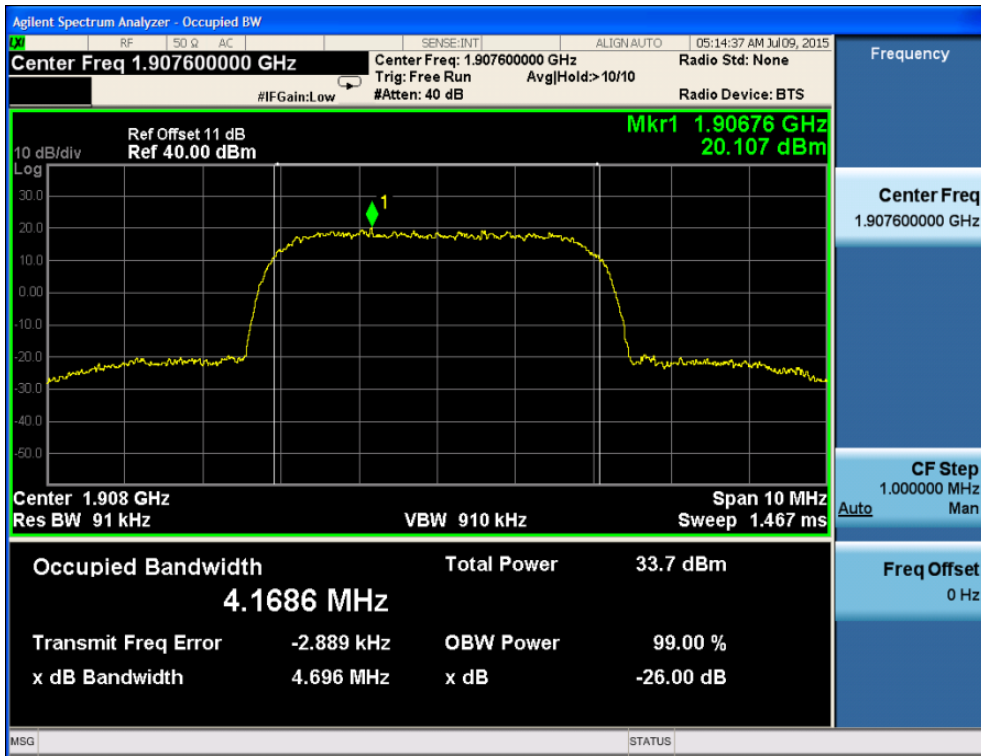


Fig.22 WCDMA Band II-CH92633 Occupied Bandwidth (HSUPA Subtest 5)

