

# TEST REPORT

**FCC ID: 2AEHZCOOL3G**

**Product: Smart Phone**

**Model No.: COOL**

**Trade Mark: FTC**

**Report No.: TCT150331E010**

**Issued Date: Apr. 10, 2015**

Issued for:

**FENIX TRADING COMPANY S.A.**

**1410 Spain Av., La Torre Building 2nd Floor. Asuncion, Paraguay.**

Issued By:

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## 1. Test Certification

<b>Product:</b>	Smart Phone
<b>Model No.:</b>	COOL
<b>Applicant:</b>	FENIX TRADING COMPANY S.A.
<b>Address:</b>	1410 Spain Av., La Torre Building 2nd Floor. Asuncion, Paraguay.
<b>Manufacturer:</b>	Shenzhen MOBOT Tech.Co., Ltd.
<b>Address:</b>	402#, Building 211, Terra Trade&Industry Park, Futian District Shenzhen, China
<b>Date of Test:</b>	Apr. 01 – Apr. 07, 2015
<b>Applicable Standards:</b>	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 Subpart H FCC CFR Title 47 Part24 Subpart E

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Tested By:**

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SKY

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**Date:**

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Apr. 07, 2015

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**Reviewed By:**

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Joe Zhou

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**Date:**

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Apr. 10, 2015

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**Approved By:**

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Tomsin

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**Date:**

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Apr. 10, 2015

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## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§2.1046	PASS
Peak-to-Average Ratio	§24.232(d)	PASS
Effective Radiated Power	§22.913(a)(2)	PASS
Equivalent Isotropic Radiated Power	§24.232(c)	PASS
Occupied Bandwidth	§2.1049 §22.917(b) §24.238(b)	PASS
Band Edge	§2.1051 §22.917(a) §24.238(a)	PASS
Conducted Spurious Emission	§2.1051 §22.917(a) §24.238(a)	PASS
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	PASS
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. EUT Description

<b>Product Name:</b>	Smart Phone
<b>Model :</b>	COOL
<b>Additional Model:</b>	N/A
<b>Trade Mark:</b>	FTC
<b>Tx Frequency:</b>	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
<b>Rx Frequency:</b>	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
<b>Maximum Output Power to Antenna:</b>	GSM850 : 32.82 dBm GSM1900 : 29.77 dBm WCDMA Band V : 23.07 dBm WCDMA Band II : 22.57 dBm
<b>99% Occupied Bandwidth:</b>	GSM850: 0.246MHz GSM1900: 0.248MHz WCDMA Band V: 4.18MHz WCDMA Band II: 4.35MHz
<b>Type of Modulation:</b>	GSM: GMSK GPRS: GMSK WCDMA: QPSK HSDPA: QPSK HSUPA: QPSK
<b>Antenna Type:</b>	PIFA Antenna
<b>Antenna Gain:</b>	GSM 850: -0.8dbi GSM 1900: 0dbi WCDMA Band V: -0.8dbi WCDMA Band II: 0dbi
<b>Power Supply:</b>	DC 3.7V from Rechargeable Li-ion Battery

## 4. General Information

### 4.1. Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

### Description Operation Frequency

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....	....	....	....
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80
WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
4132	826.40	9262	1852.40
4133	826.60	9263	1852.60
....	....	....	....
4182	836.40	9399	1879.80
4183	836.60	9400	1880.00
4184	836.80	9401	1880.20
...	...	...	...
4232	846.40	9537	1907.40
4233	846.60	9538	1907.60

## 4.2. Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 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 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for PCS1900 and WCDMA 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 Mode		
Band	Radiated TCs	Conducted TCs
GSM 850	GSM Link GPRS class 8 Link	GSM Link GPRS class 8 Link
PCS 1900	GSM Link GPRS class 8 Link	GSM Link GPRS class 8 Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDMA Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link

**Note:** The maximum power levels are chosen to test as the worst case configuration as follows:

GSM multi-slot class 8 mode for GMSK modulation,

GPRS multi-slot class 8 mode for GMSK modulation, RMC 12.2Kbps mode for WCDMA band V and WCDMA band II, only these modes were used for all tests. In addition to above worst-case test, below investigating on all data rates, and all modes are compliance with each FCC test case which has specific test limits. For spurious emissions at antenna port, the EUT was investigated the band edges on low and high channels, and the unwanted spurious emissions on middle channel for all modes, the results are pass, then only the worst-results were reported in the test report. The Radiated Spurious emissions for GSM/GPRS modes were investigated on the middle channel and the passed results were not worst than those data tested from the highest power channels.

### Conducted Power Measurement Results:

Conducted Power (*Unit: dBm)						
Band	GSM850			PCS 1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.60	32.70	<b>32.82</b>	28.45	29.01	<b>29.77</b>
GPRS class8	32.59	32.68	32.80	28.40	28.99	29.76
GPRS class10	31.63	31.70	31.82	27.65	28.26	29.00
GPRS class11	29.91	29.92	30.04	25.91	26.53	27.33
GPRS class12	29.10	29.02	29.15	25.13	25.79	26.56

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4138	4233	9262	9400	9538
Frequency(MHz)	826.4	836.8	846.6	1850.2	1880.0	1909.8
RCM 12.2K	23.04	<b>23.07</b>	22.98	21.10	<b>22.57</b>	21.82
RCM 64K	23.01	23.03	22.97	20.94	22.54	21.81
RCM 144K	23.03	23.05	23.01	20.96	22.56	21.73
RCM 384K	23.03	23.06	23.00	20.92	22.55	21.70
HSDPA Subtest-1	21.95	21.99	21.91	20.33	21.45	21.52
HSDPA Subtest-2	22.02	22.03	21.97	20.24	21.43	21.50
HSDPA Subtest-3	21.81	21.88	21.78	20.13	21.38	21.74
HSDPA Subtest-4	22.04	22.06	22.03	20.36	21.34	21.62
HSUPA Subtest-1	22.15	22.08	22.01	20.66	21.43	21.55
HSUPA Subtest-2	21.97	21.98	21.86	20.53	21.26	21.32
HSUPA Subtest-3	21.93	21.89	21.85	20.42	21.31	21.21
HSUPA Subtest-4	21.78	21.67	21.77	20.31	21.27	21.43
HSUPA Subtest-5	21.83	21.84	21.73	20.13	21.12	21.26

#### 4.3. Description of Support Units

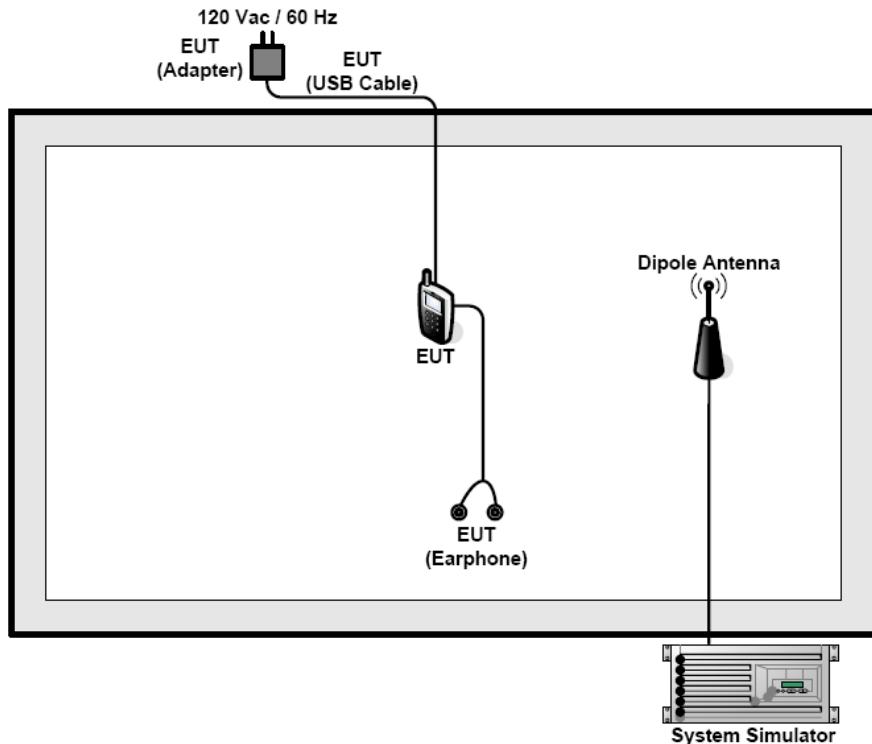
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

#### 4.4. Configuration of Tested System



#### 4.5. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.  
 $\text{Offset} = \text{RF cable loss} + \text{attenuator factor}$ .

## 5. Facilities and Accreditations

### 5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

### 5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

### 5.3. Measurement Uncertainty

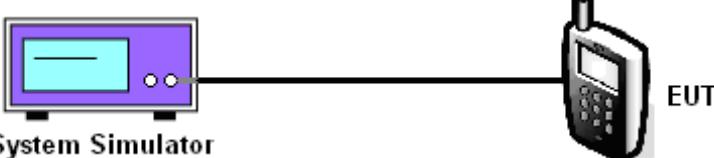
The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

## 6. Test Results and Measurement Data

### 6.1. Conducted Output Power Measurement

#### 6.1.1. Test Specification

<b>Test Requirement:</b>	FCC part 22.913(a) and FCC part 24.232(b)
<b>Test Method:</b>	FCC part 2.1046
<b>Limits:</b>	GSM 850: 7W PCS 1900: 2W WCDMA Band V: 7W WCDMA Band II: 2W
<b>Test Setup:</b>	 <p>System Simulator      EUT</p>
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The transmitter output port was connected to the system simulator.</li> <li>2. Set EUT at maximum power through system simulator.</li> <li>3. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.</li> </ol>
<b>Test Result:</b>	PASS

#### 6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 16, 2015

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.1.3. Test data

Cellular Band									
Mode	GSM850 (GSM)			GSM850 (GPRS class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128	189	251	128	189	251	4132	4183	4233
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8	824.4	836.6	846.8
Conducted Power (dBm)	32.60	32.70	32.82	32.56	32.65	32.77	23.04	23.07	22.98

PCS Band									
Mode	GSM 1900 (GSM)			GSM 1900 (GPRS class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512	661	810	512	661	810	9262	9400	9538
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	28.45	29.01	29.77	28.39	28.97	29.73	21.10	22.57	21.82

*Note:* Maximum Burst Average Power for GSM.

## 6.2. Peak to Average Ratio

### 6.2.1. Test Specification

<b>Test Requirement:</b>	FCC part 24.232(d)
<b>Test Method:</b>	FCC part 24.232(d)
<b>Limit:</b>	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
<b>Test Setup:</b>	<p>The diagram illustrates the test setup. A purple 'System Simulator' unit is connected to a black 'Power Divider'. The power divider has three outputs: one goes to a green 'Spectrum Analyzer', another goes to a black 'EUT' (Equipment Under Test), and the third output is unused.</p>
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.</li> <li>2. The EUT was connected to spectrum analyzer and system simulator via a power divider.</li> <li>3. Set EUT to transmit at maximum output power.</li> <li>4. For GSM/EGPRS operating modes, signal gating is implemented on the spectrum analyzer by triggering from the system simulator.</li> <li>5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.</li> </ol>
<b>Test Result:</b>	PASS

### 6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 16, 2015
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 21, 2015

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.2.3. Test Data

Cellular Band									
Mode	GSM850 (GSM)			GSM850 (GPRS class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128	189	251	128	189	251	4132	4183	4233
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8	826.4	836.6	846.8
Peak-to-Average Ratio (dB)	9.72	8.97	9.39	9.39	8.89	9.44	3.95	3.17	3.00

PCS Band									
Mode	GSM 1900 (GSM)			GSM 1900 (GPRS class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512	661	810	512	661	810	9262	9400	9538
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	9.96	9.24	9.45	9.89	9.25	9.24	1.80	1.25	1.76

*Note:* Maximum Burst Average Power for GSM.

Test plots as follows:

## GSM 850

### Peak-to-Average Ratio on Channel 128



### Peak-to-Average Ratio on Channel 190



### Peak-to-Average Ratio on Channel 251



## GSM 1900

### Peak-to-Average Ratio on Channel 512



### Peak-to-Average Ratio on Channel 661



### Peak-to-Average Ratio on Channel 810

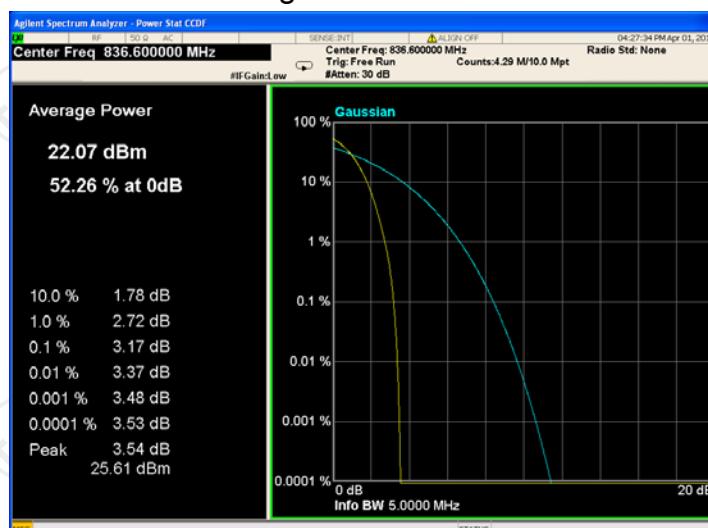


WCDMA Band V 12.2K

Peak-to-Average Ratio on Channel 4132



Peak-to-Average Ratio on Channel 4183

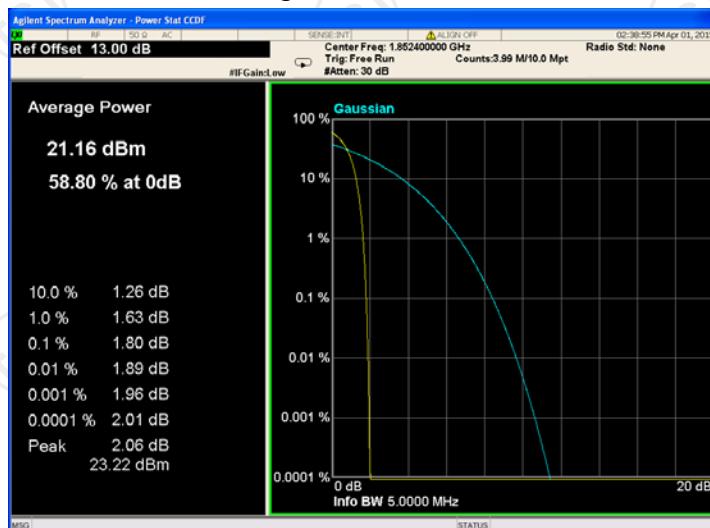


Peak-to-Average Ratio on Channel 4233

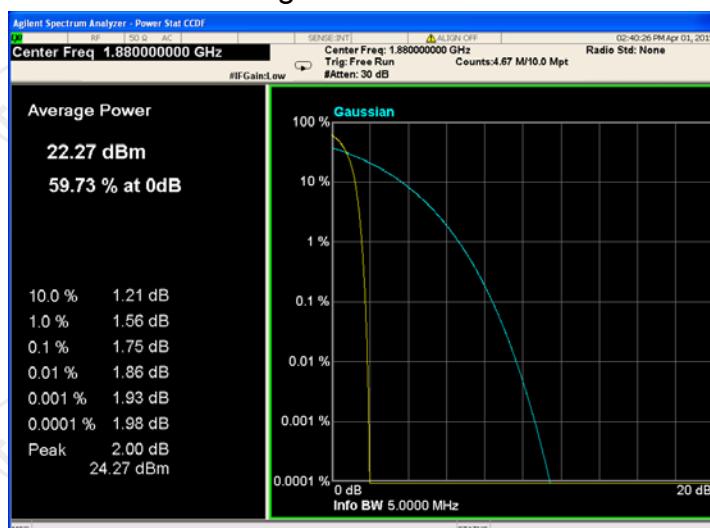


WCDMA Band II 12.2Kbps

Peak-to-Average Ratio on Channel 9262



Peak-to-Average Ratio on Channel 9400



Peak-to-Average Ratio on Channel 9538



### 6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 6.3.1. Test Specification

<b>Test Requirement:</b>	FCC part 22.913(a) and FCC part 24.232(b)
<b>Test Method:</b>	FCC part 2.1049
<b>Limit:</b>	N/A
<b>Test Setup:</b>	<p>The diagram illustrates the test setup. A purple 'System Simulator' is connected via a cable to a black 'Power Divider'. From the power divider, one line goes to a green 'Spectrum Analyzer' and another line goes to a black 'EUT' (Equipment Under Test), which is a handheld device.</p>
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB 971168 v02r02 Section 4.2.</li> <li>2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li> <li>3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.</li> <li>5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.</li> </ol>
<b>Test Result:</b>	PASS

#### 6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 16, 2015
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 21, 2015

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.3.3. Test data

Cellular Band						
Mode	GSM850 (GSM)			GSM850 (GPRS class 8)		
Channel	128	189	251	128	189	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
99% OBW (kHz)	245.24	245.79	244.24	245.11	243.60	245.58
26dB BW (kHz)	312.90	308.40	317.00	315.80	316.30	315.50

PCS Band						
Mode	GSM 1900 (GSM)			GSM 1900 (GPRS class 8)		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	244.09	245.56	243.78	243.42	247.61	246.38
26dB BW (kHz)	319.90	311.30	315.30	307.50	318.40	313.90

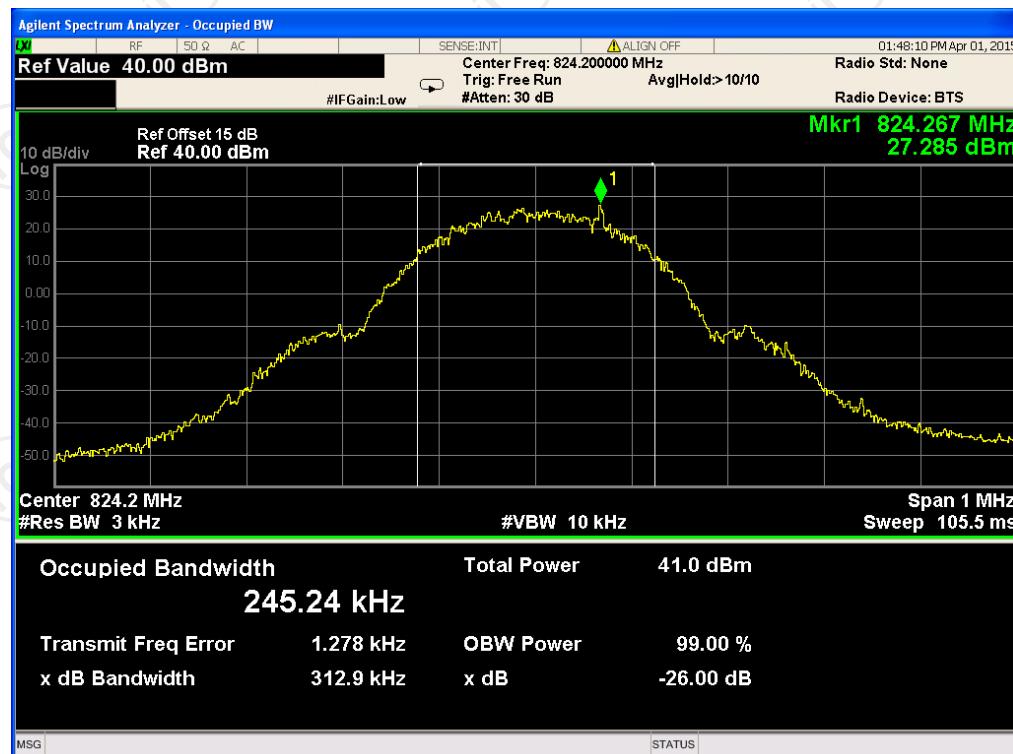
Cellular Band			
Mode	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.8
99% OBW (kHz)	4175	4164	4166
26dB BW (kHz)	4686	4686	4702

PCS Band			
Mode	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (kHz)	4237	4222	4349
26dB BW (kHz)	4795	4812	4825

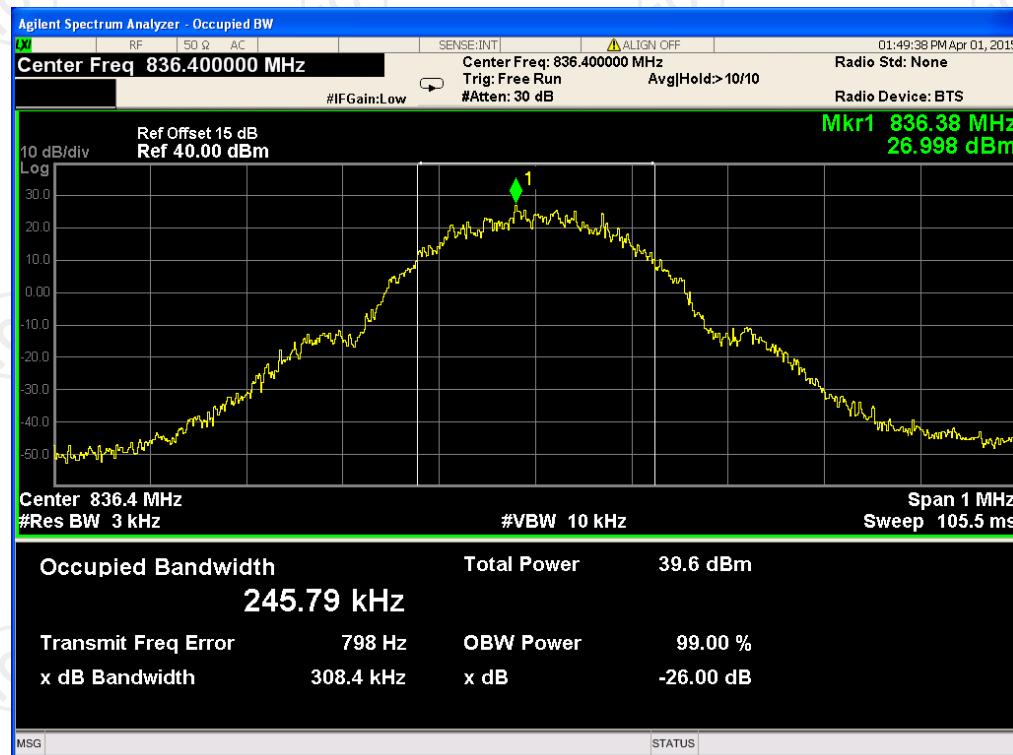
Test plots as follows:

Band:	GSM 850	Test Mode:	GSM Link (GMSK)
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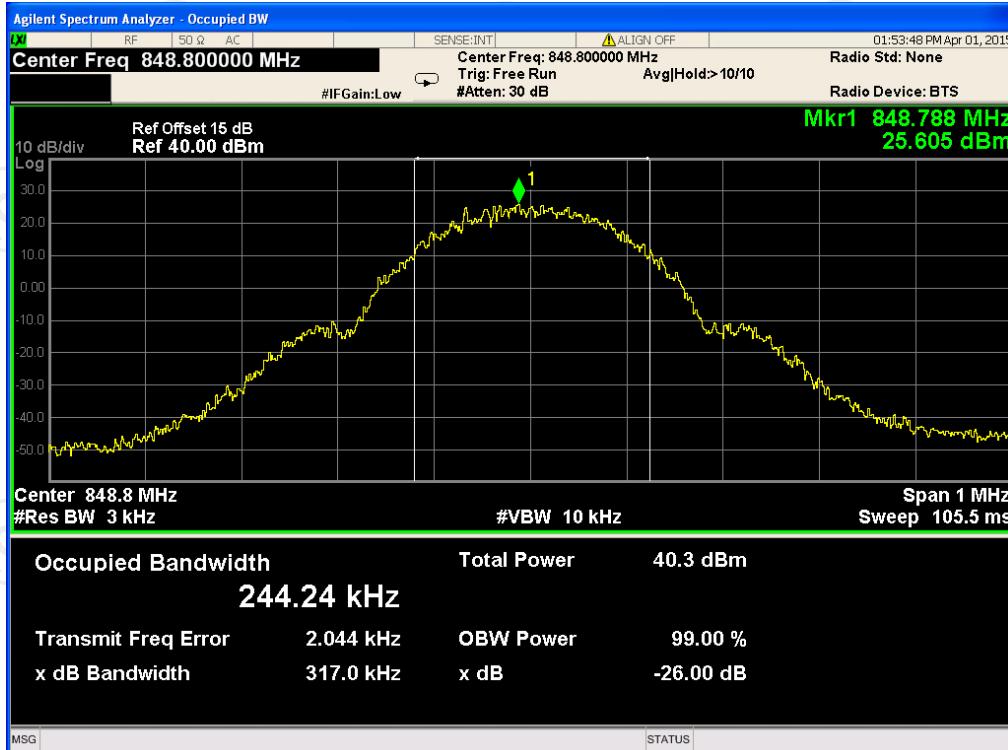
### 26dB&99% Occupied Bandwidth Plot on Channel 128



### 26dB&99% Occupied Bandwidth Plot on Channel 189



## 26dB&99% Occupied Bandwidth Plot on Channel 251



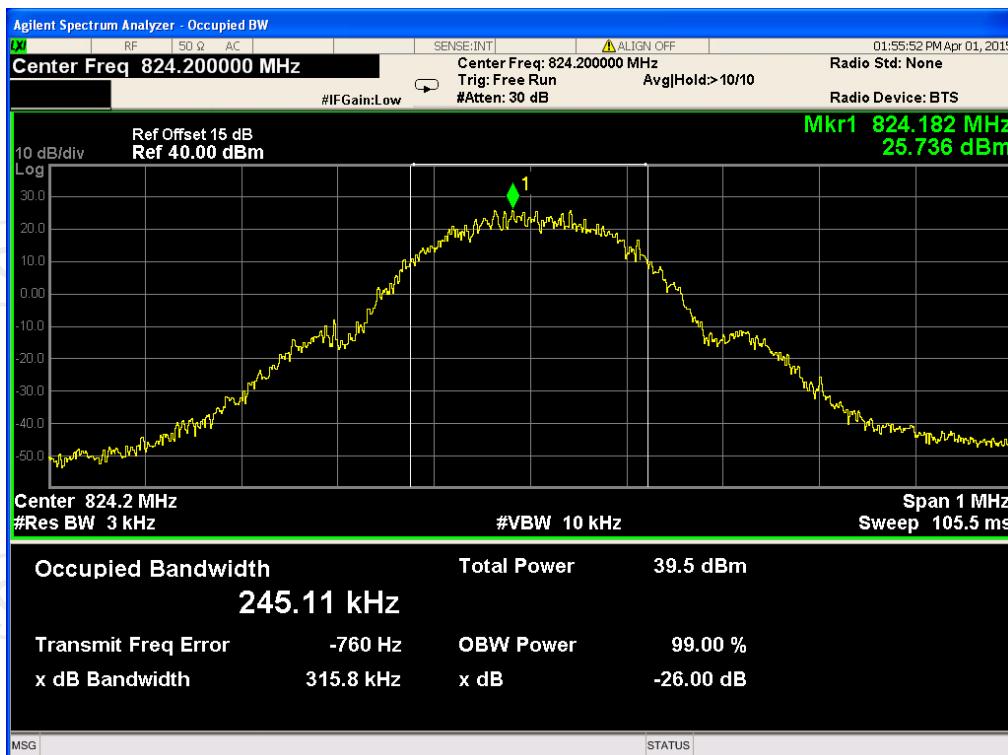
Band:

GSM 850

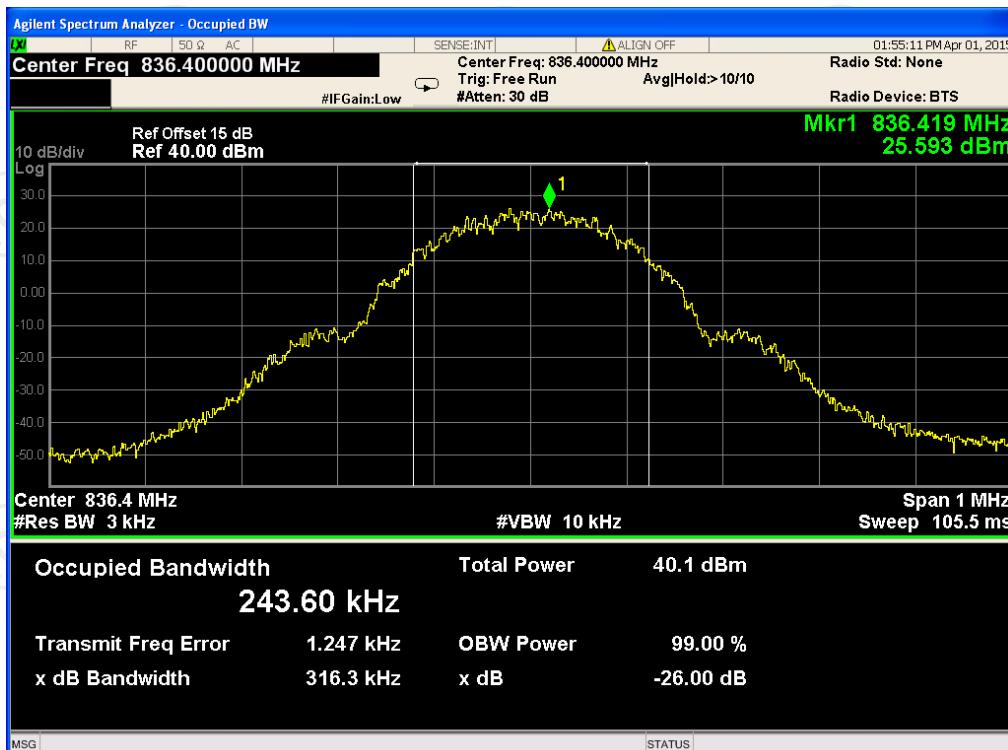
Test Mode:

 GPRS class 8 Link  
(8PSK)

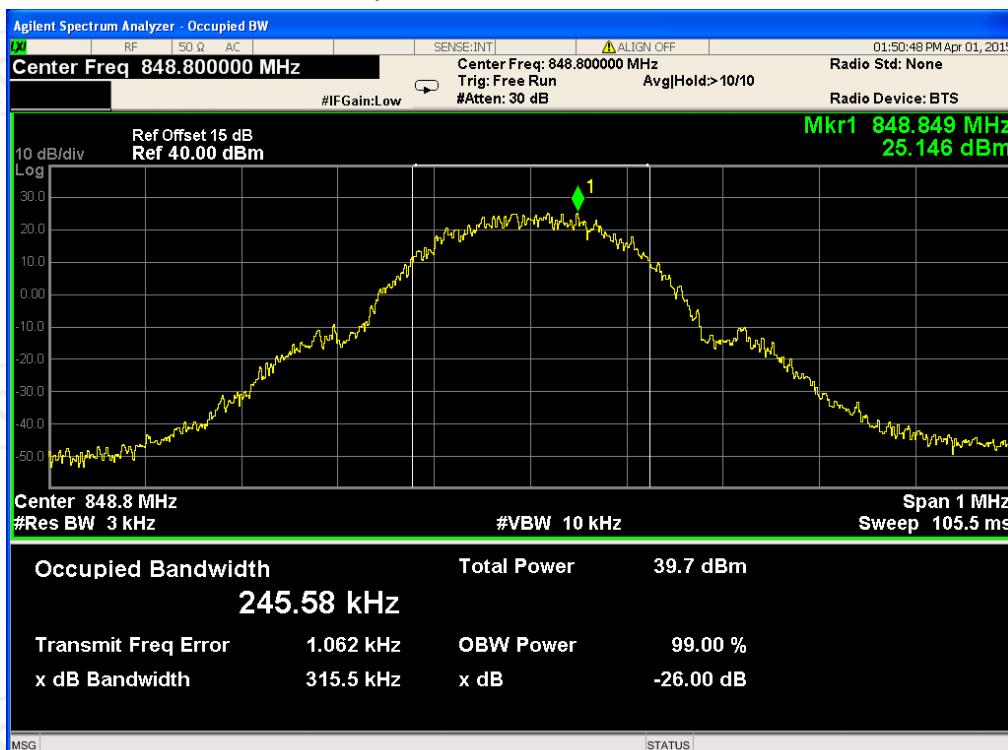
## 26dB&99% Occupied Bandwidth Plot on Channel 128



26dB&99% Occupied Bandwidth Plot on Channel 189



26dB&99% Occupied Bandwidth Plot on Channel 251



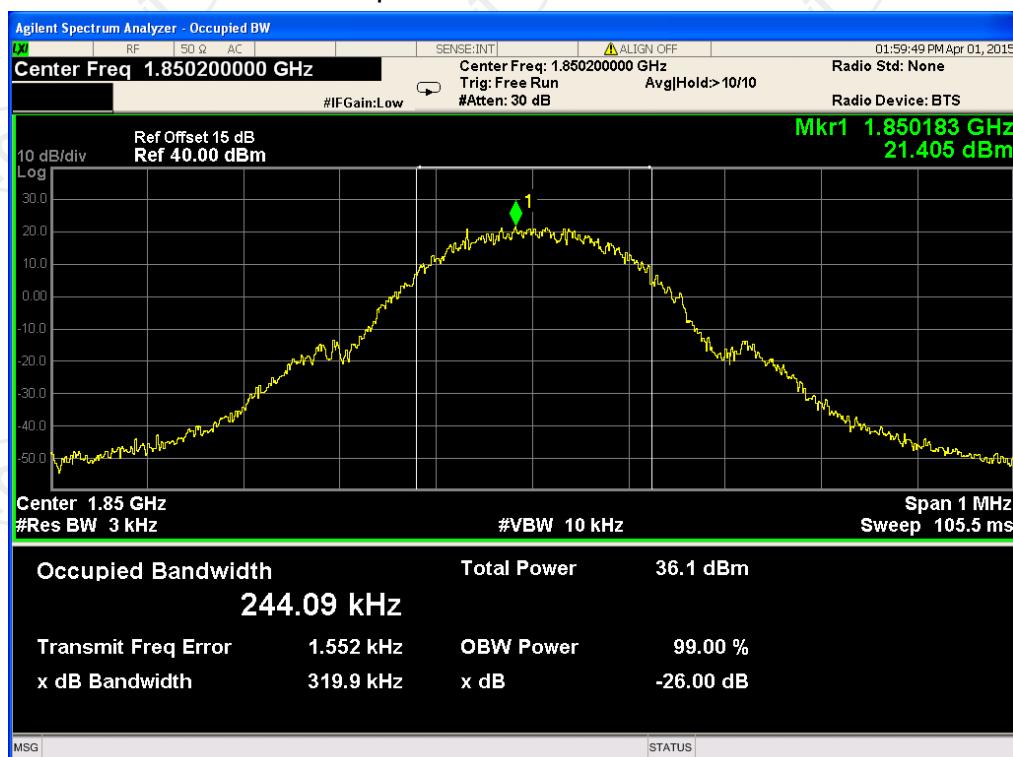
Band:

GSM 1900

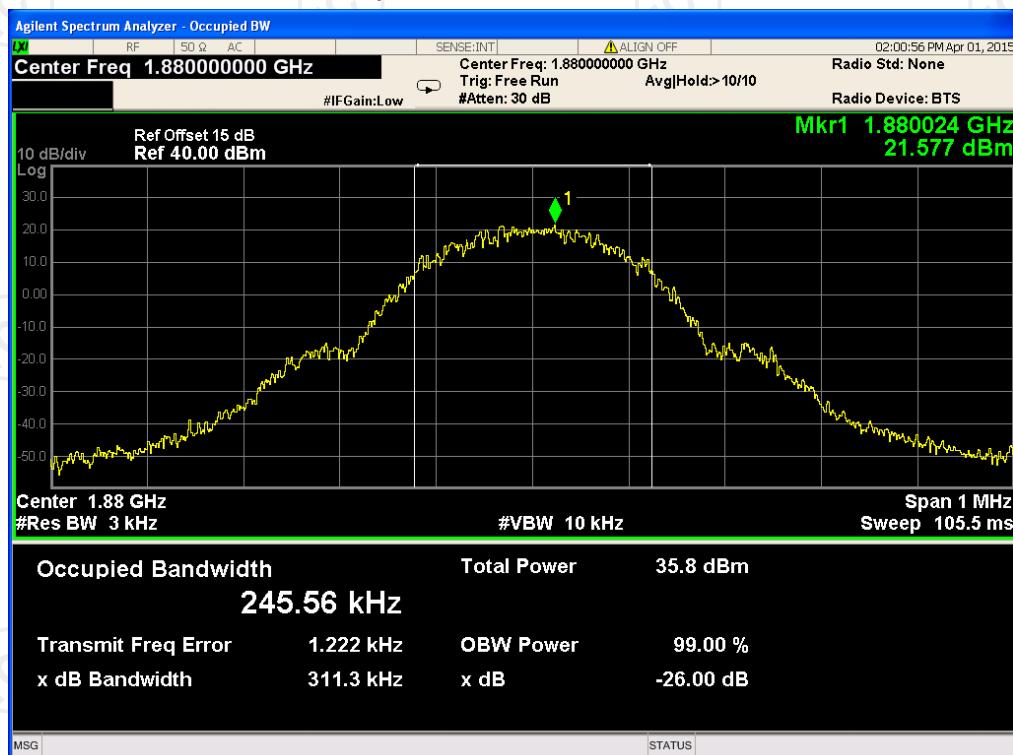
Test Mode:

GSM Link (GMSK)

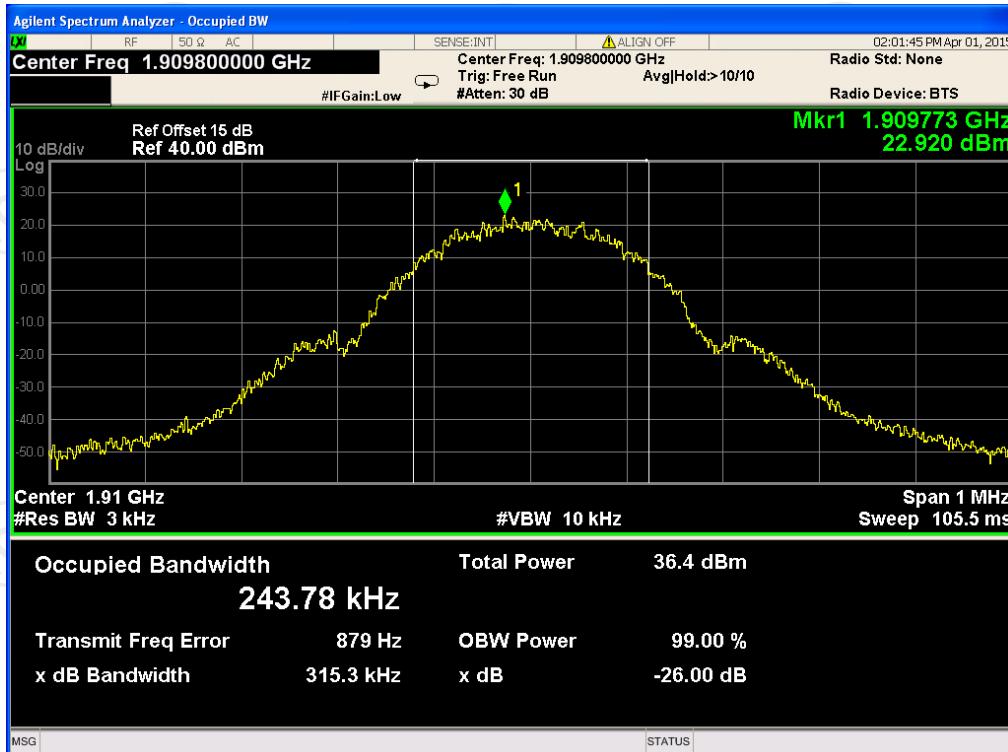
## 26dB&99% Occupied Bandwidth Plot on Channel 512



## 26dB&99% Occupied Bandwidth Plot on Channel 661

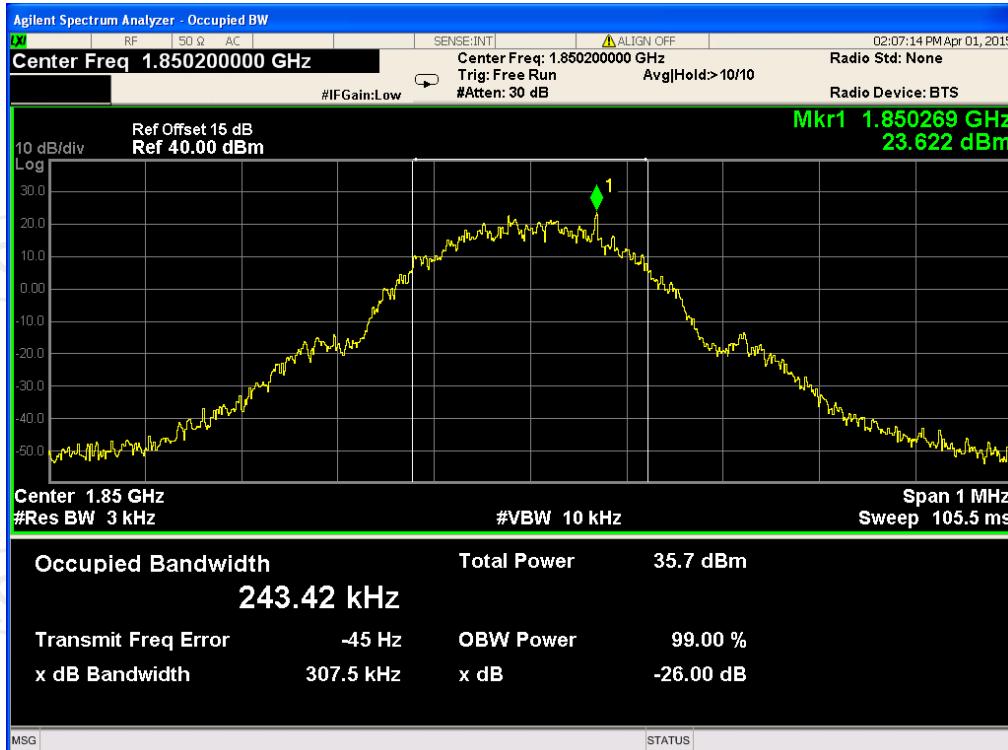


26dB&99% Occupied Bandwidth Plot on Channel 810

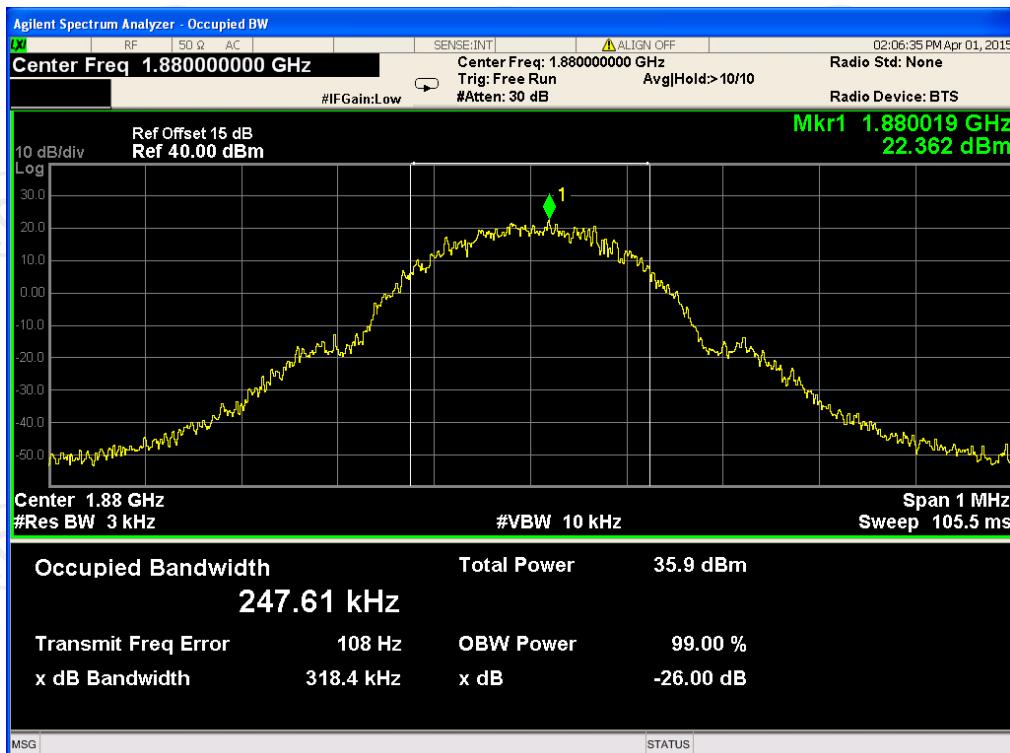


Band:	GSM 1900	Test Mode:	GPRS class 8 Link (8PSK)
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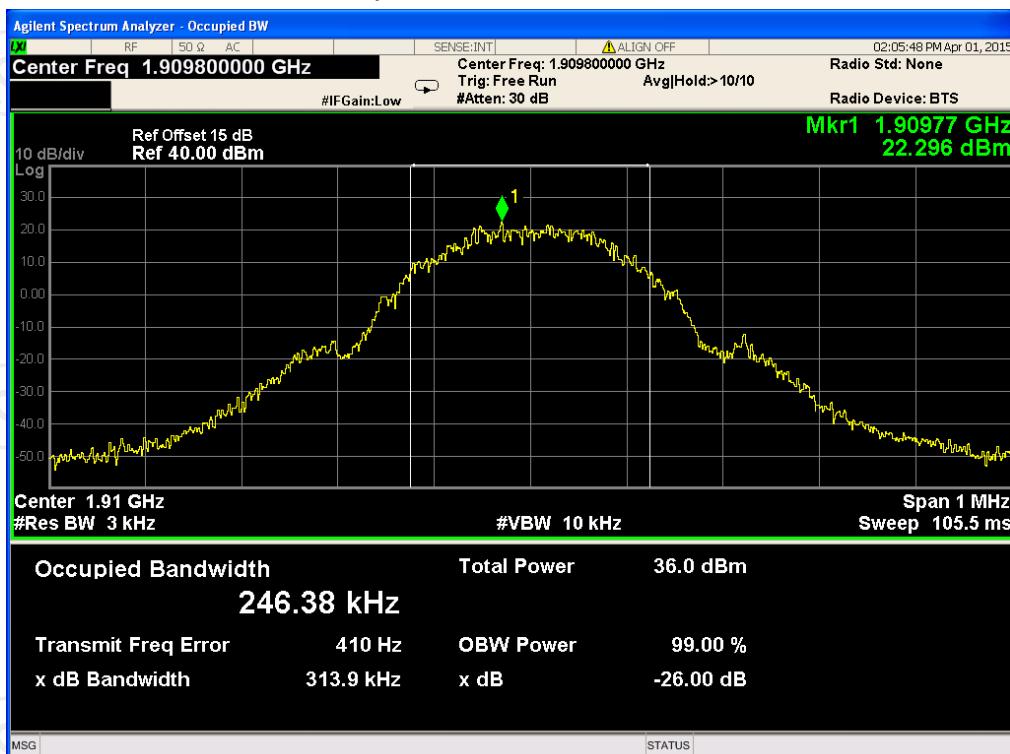
26dB&99% Occupied Bandwidth Plot on Channel 512



26dB&99% Occupied Bandwidth Plot on Channel 661



26dB&99% Occupied Bandwidth Plot on Channel 810



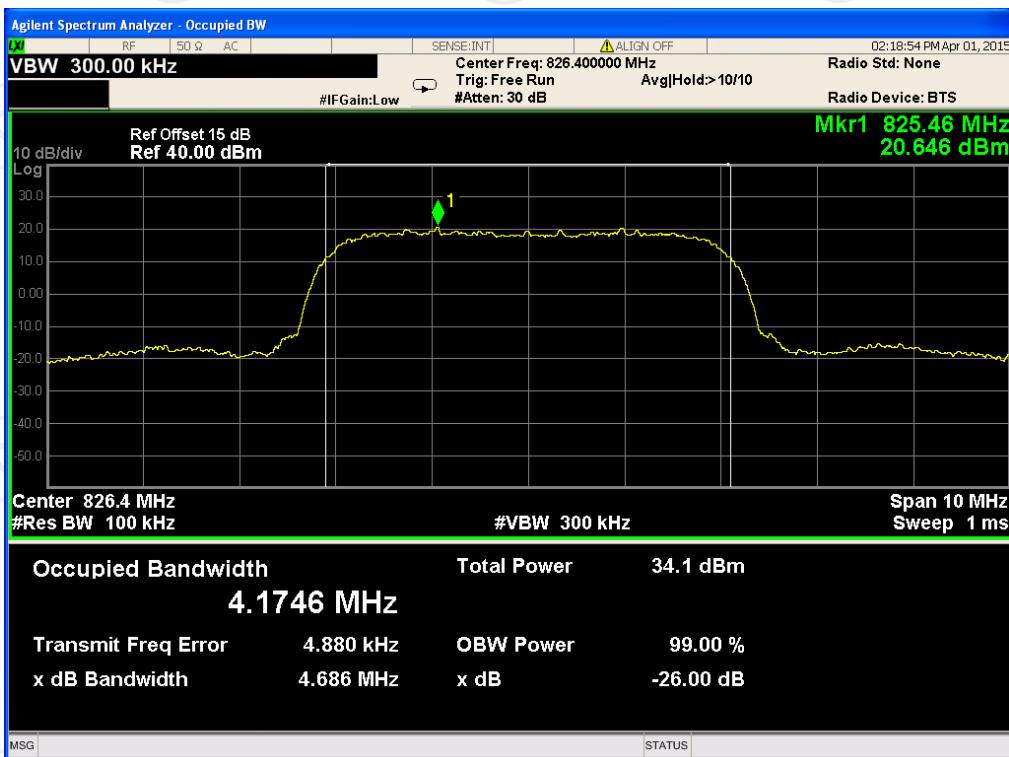
Band:

WCDMA Band V

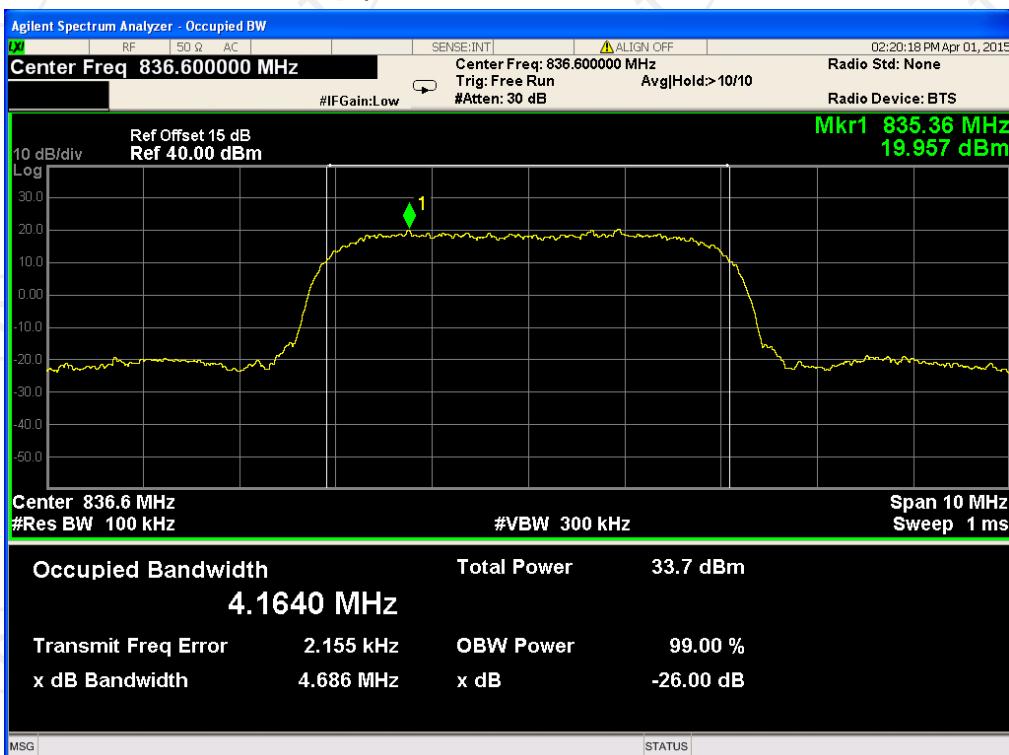
Test Mode:

 RMC 12.2Kbps Link  
(QPSK)

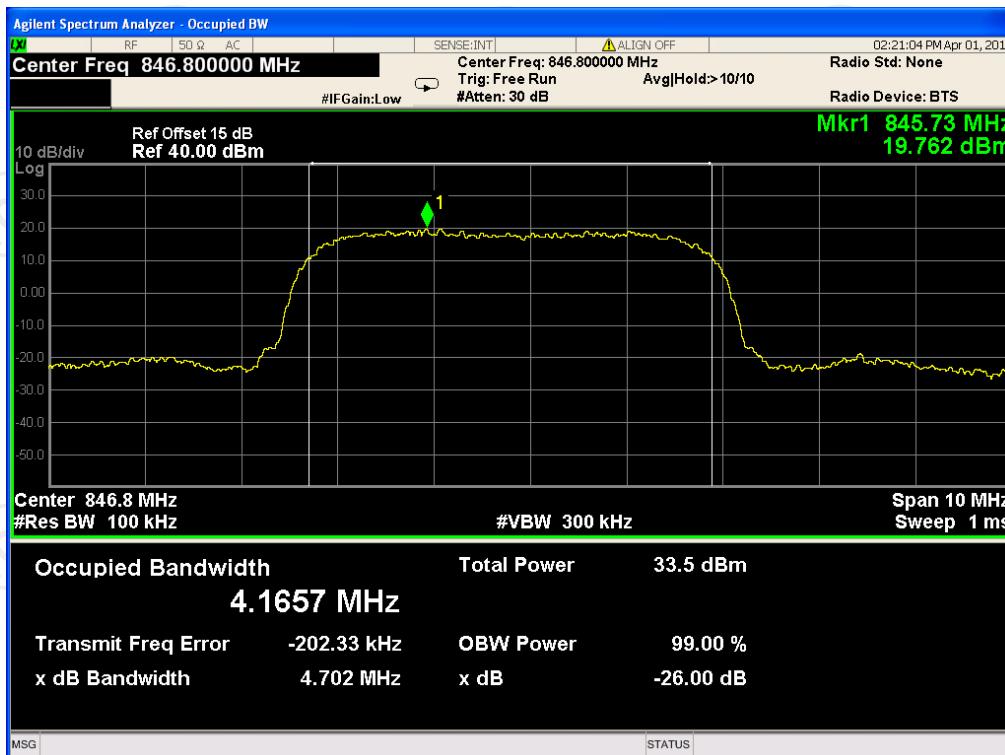
## 26dB&amp;99% Occupied Bandwidth Plot on Channel 4132



## 26dB&amp;99% Occupied Bandwidth Plot on Channel 4183



26dB&99% Occupied Bandwidth Plot on Channel 4233



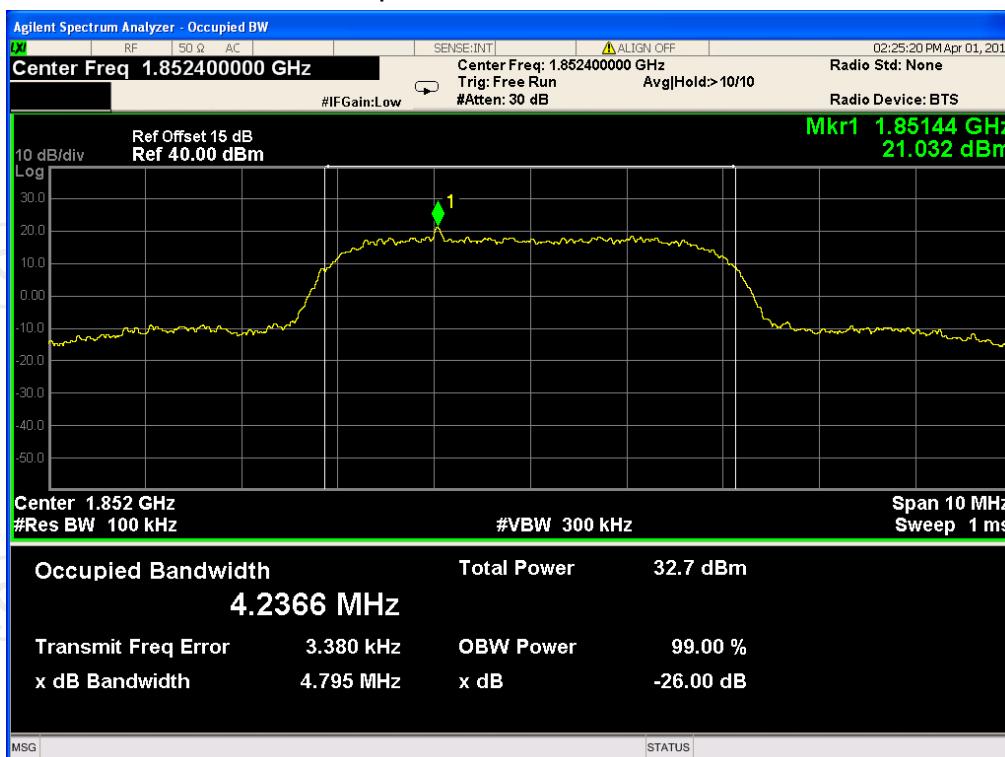
Band:

WCDMA Band II

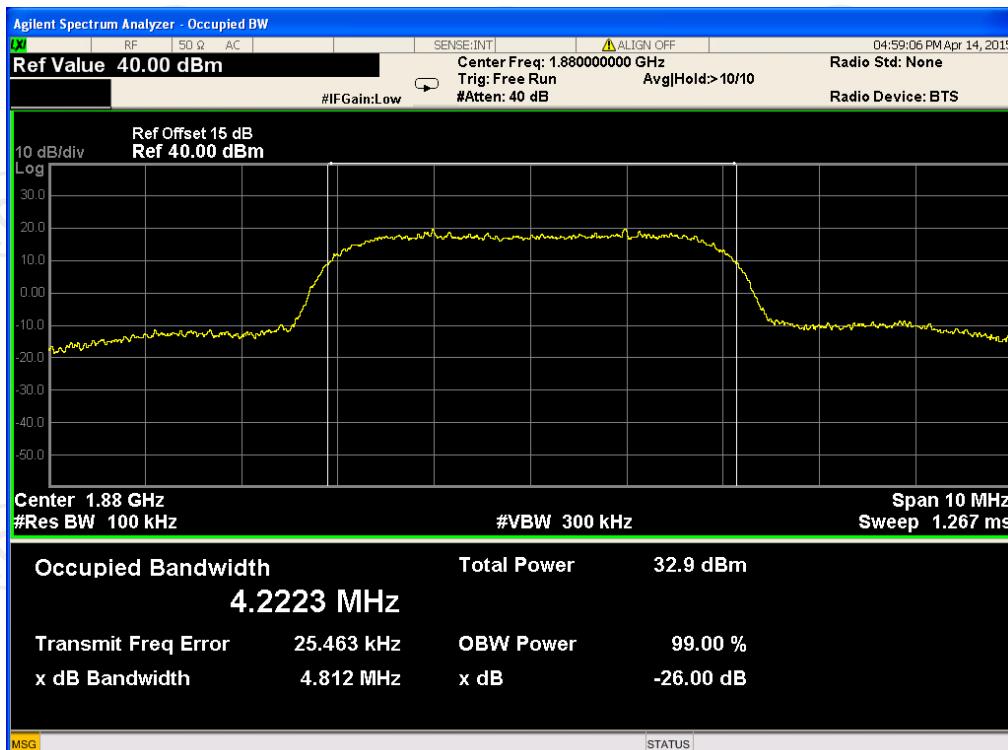
Test Mode:

RMC 12.2Kbps Link  
(QPSK)

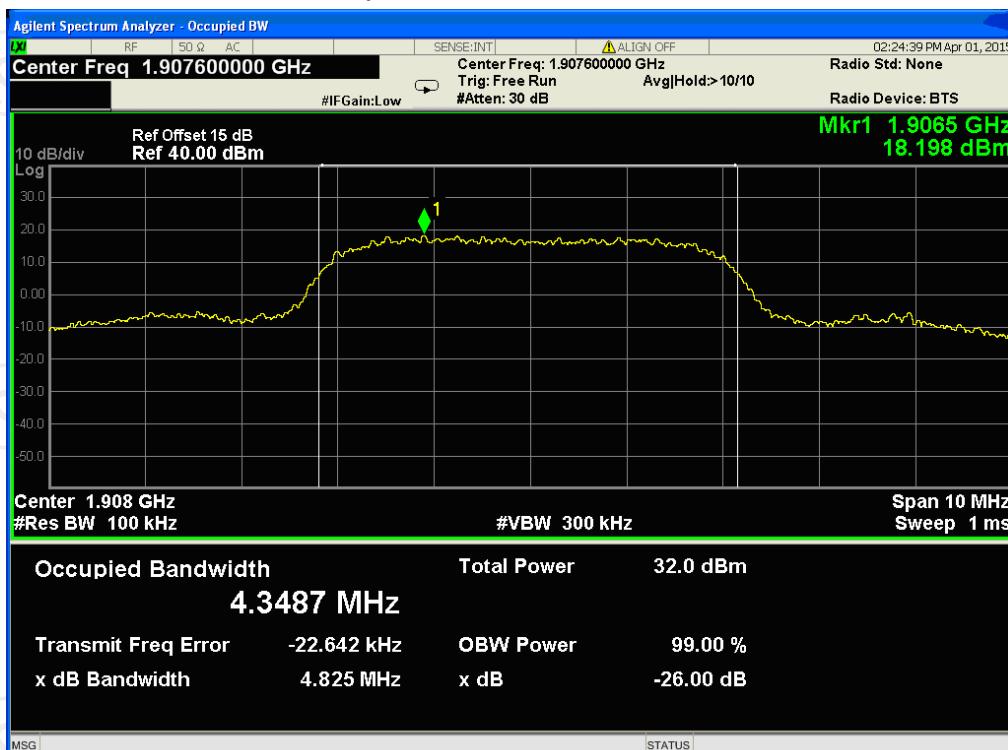
26dB&99% Occupied Bandwidth Plot on Channel 9262



26dB&99% Occupied Bandwidth Plot on Channel 9400



26dB&99% Occupied Bandwidth Plot on Channel 9538



## 6.4. Band Edge and Conducted Spurious Emission Measurement

### 6.5. Test Specification

<b>Test Requirement:</b>	FCC part22.917(a) and FCC part24.238(a)
<b>Test Method:</b>	FCC part2.1051
<b>Limit:</b>	-13dBm
<b>Test Setup:</b>	<p>The diagram illustrates the test setup. A purple rectangular box labeled "System Simulator" has two output ports. One port is connected to a black rectangular box labeled "Power Divider". The other port is connected to a green rectangular box labeled "Spectrum Analyzer". From the "Power Divider", two lines branch out: one to a black rectangular box labeled "EUT" (Equipment Under Test), and another to a black rectangular box.</p>
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB 971168 v02r02 Section 6.0.</li> <li>2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li> <li>3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>4. The band edges of low and high channels for the highest RF powers were measured.</li> <li>5. The conducted spurious emission for the whole frequency range was taken.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> <li>7. The limit line is derived from <math>43 + 10\log(P)</math> dB below the transmitter power  <math>P(\text{Watts}) = P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.</math></li> </ol>
<b>Test Result:</b>	PASS

#### 6.5.1. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 16, 2015
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 21, 2015

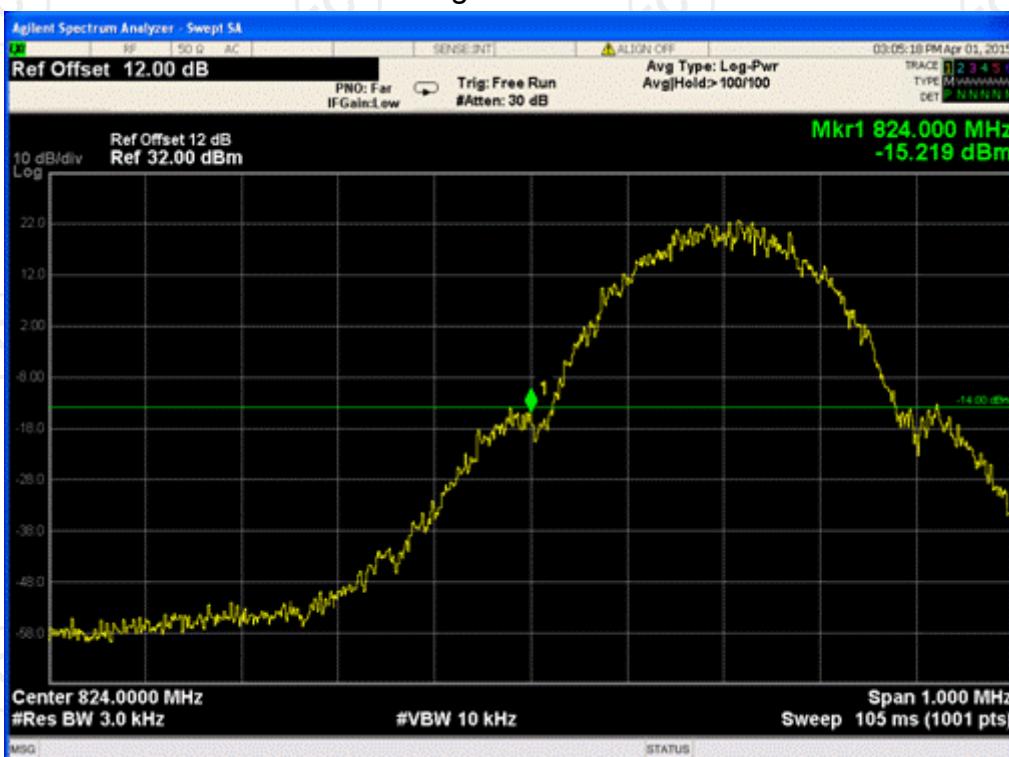
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.5.2. Test data

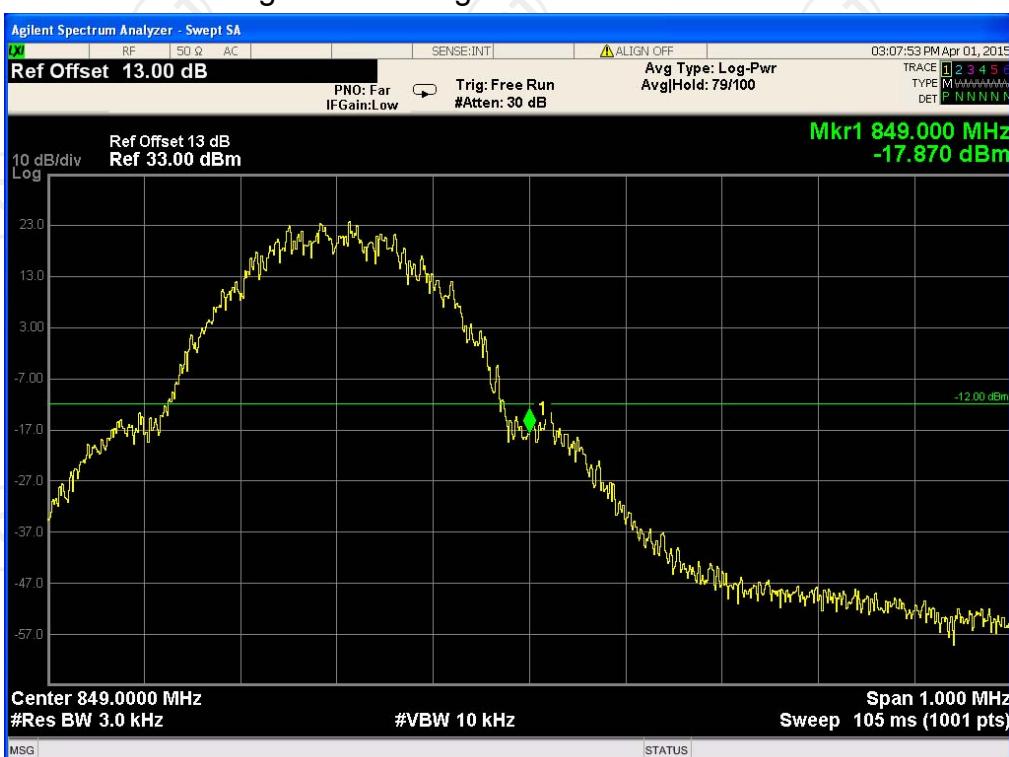
Test plots as follows:

Band:	GSM 850	Test Mode:	GSM Link (GMSK)
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Lower Band Edge Plot on Channel 128

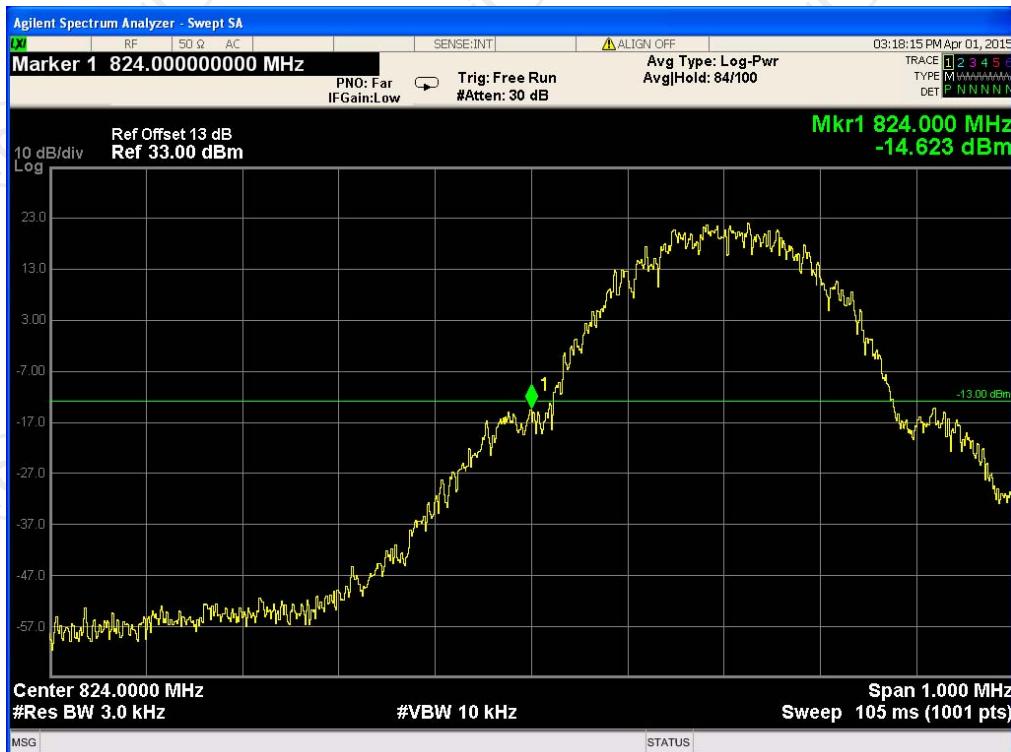


Higher Band Edge Plot on Channel 251

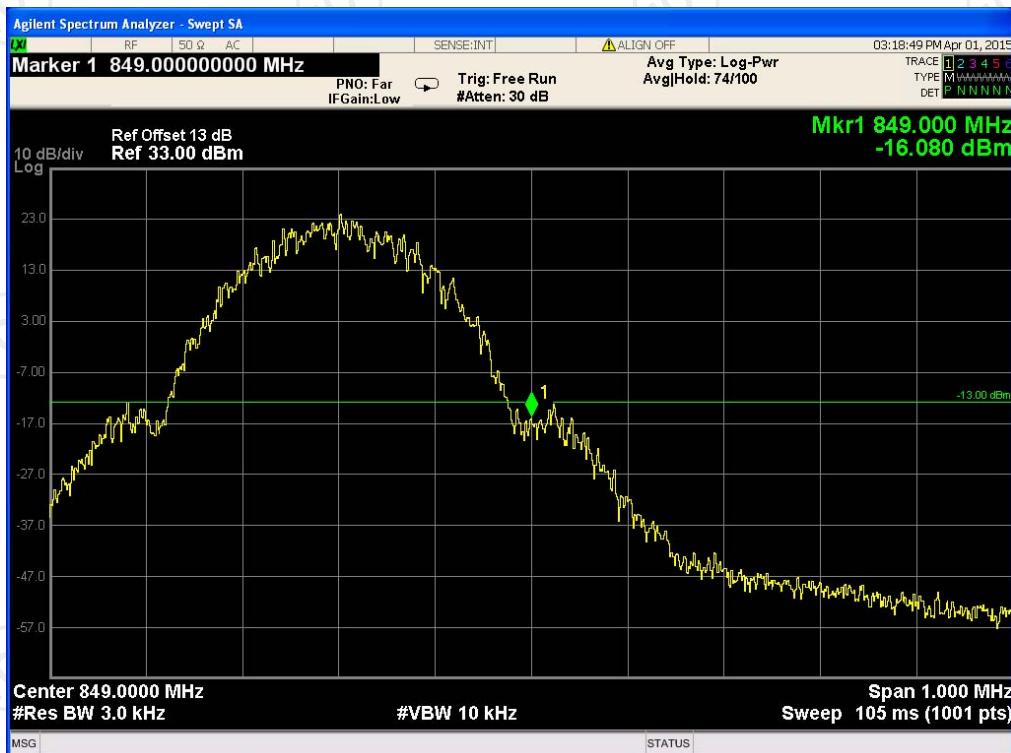


Band:	GSM 850	Test Mode:	GPRS Link
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### Lower Band Edge Plot on Channel 128



### Higher Band Edge Plot on Channel 251



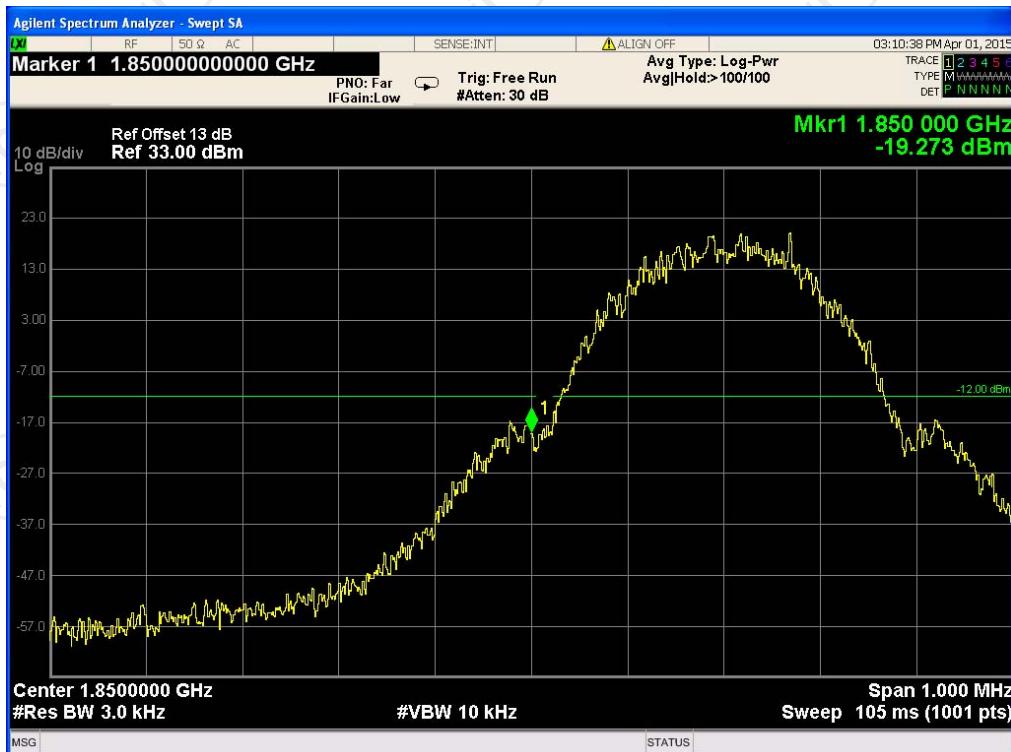
Band:

GSM 1900

Test Mode:

GSM Link (GMSK)

### Lower Band Edge Plot on Channel 512



### Higher Band Edge Plot on Channel 810



Band:

GSM 1900

Test Mode:

GPRS Link

## Lower Band Edge Plot on Channel 512



## Higher Band Edge Plot on Channel 810



Band:

WCDMA Band V

Test Mode:

 RMC 12.2Kbps Link  
(QPSK)

### Lower Band Edge Plot on Channel 4132



### Higher Band Edge Plot on Channel 4233



Band:

WCDMA Band II

Test Mode:

 RMC 12.2Kbps Link  
(QPSK)

### Lower Band Edge Plot on Channel 9262



### Higher Band Edge Plot on Channel 9538



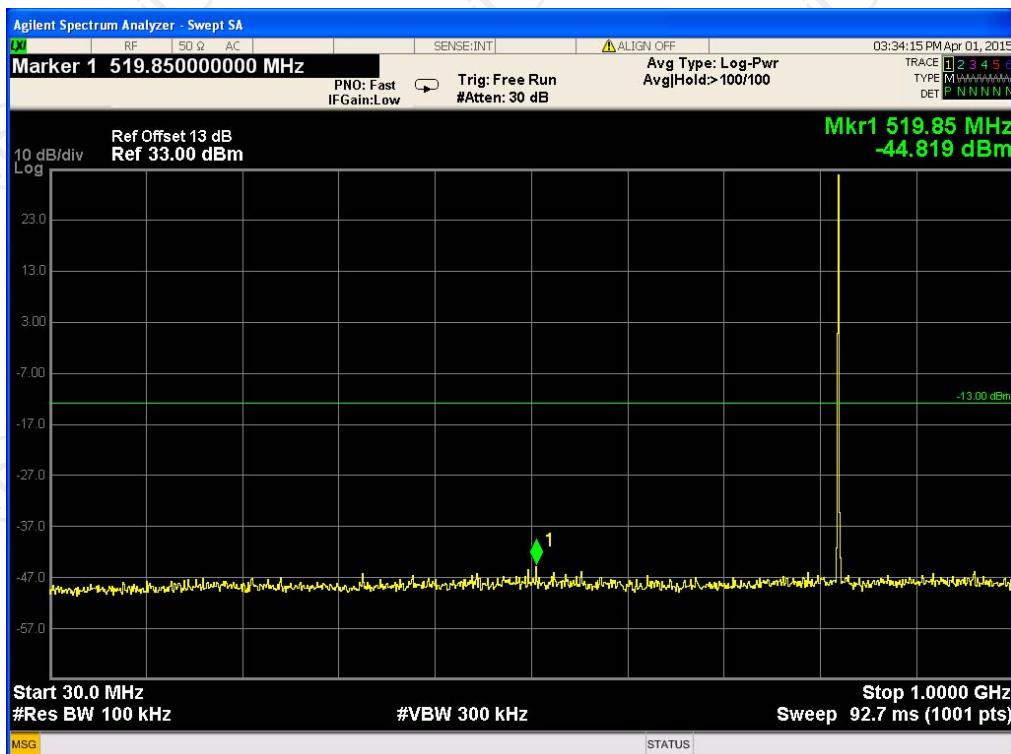
Band:

GSM 850

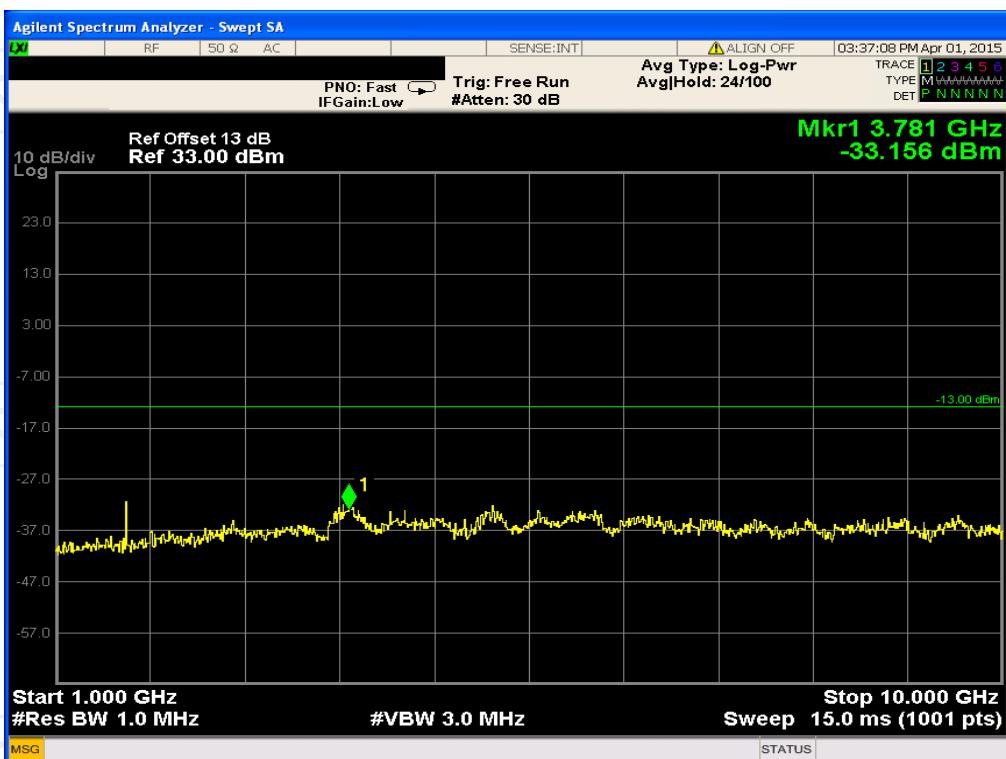
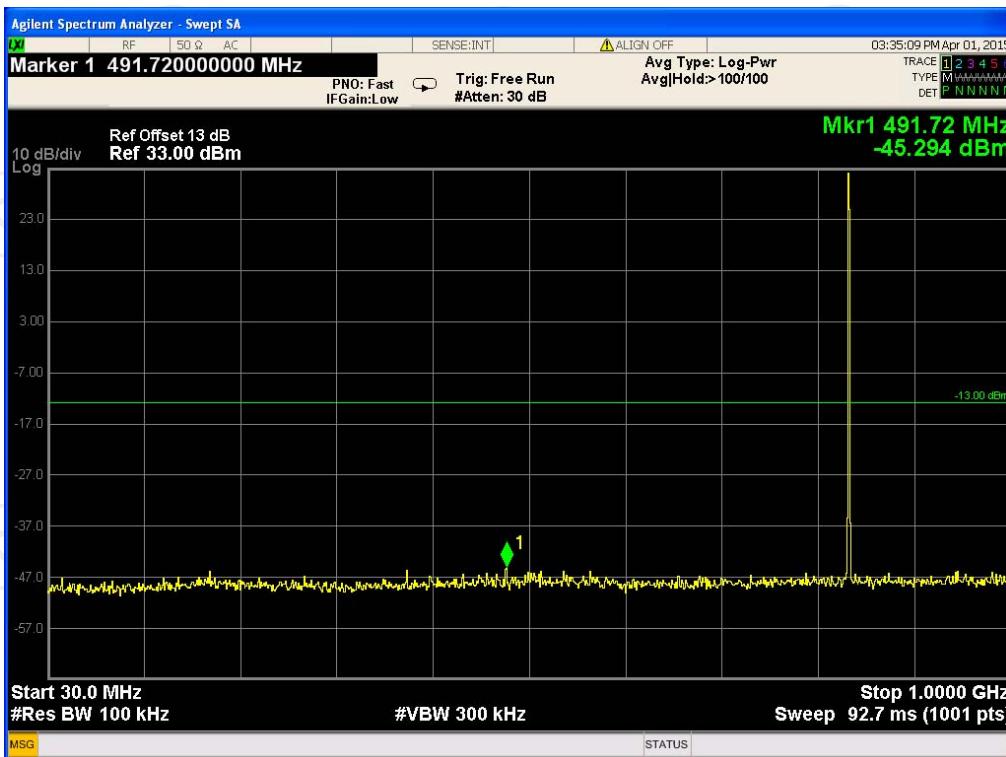
Test Mode:

GSM Link (GMSK)

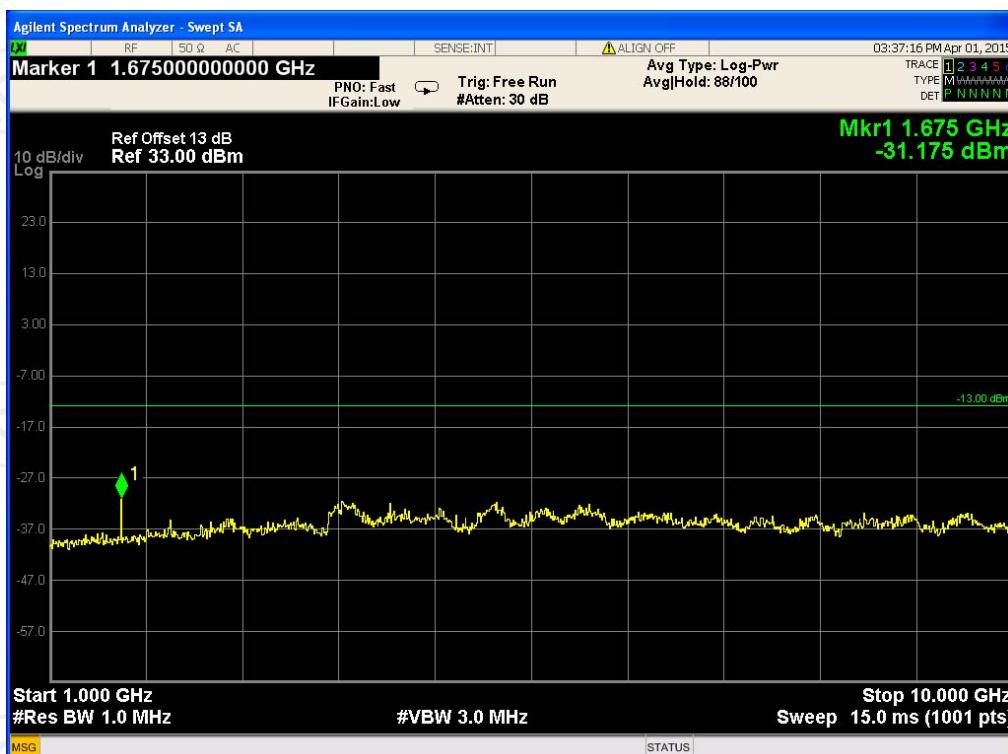
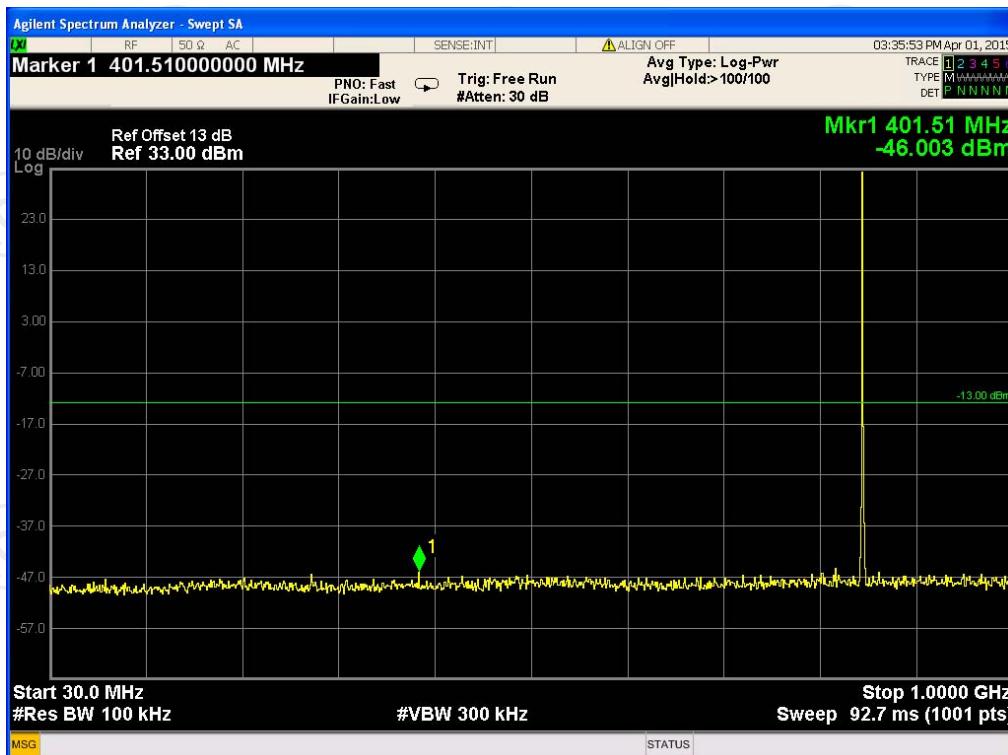
## Conducted Spurious Emission on Channel 128



Conducted Spurious Emission on Channel 190



Conducted Spurious Emission on Channel 251



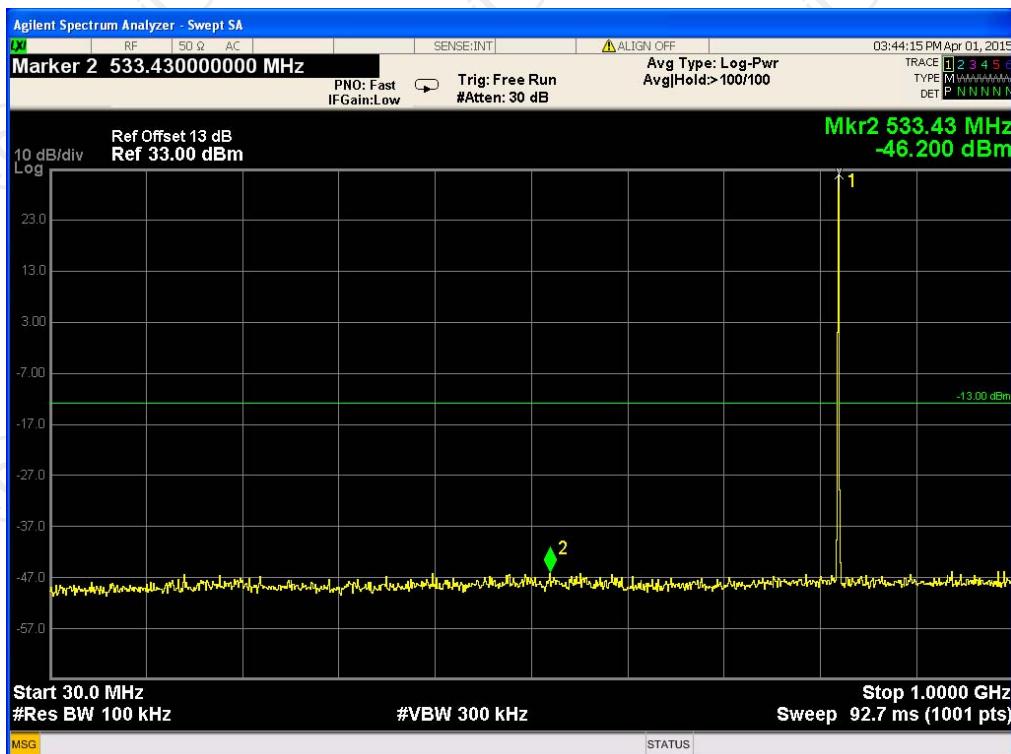
Band:

GSM 850

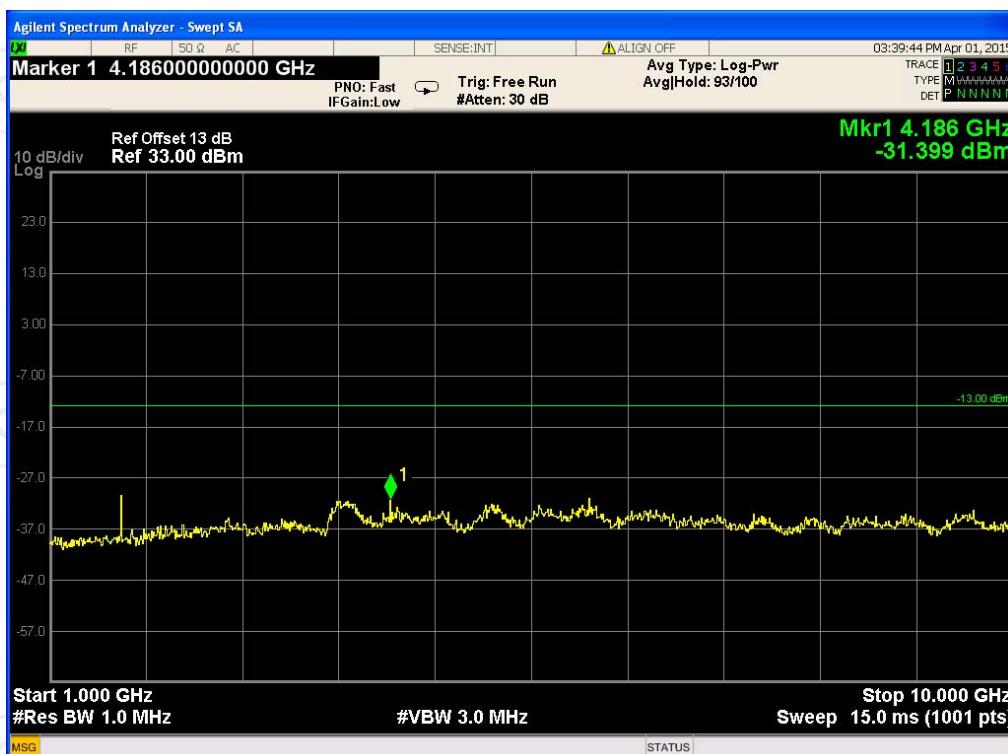
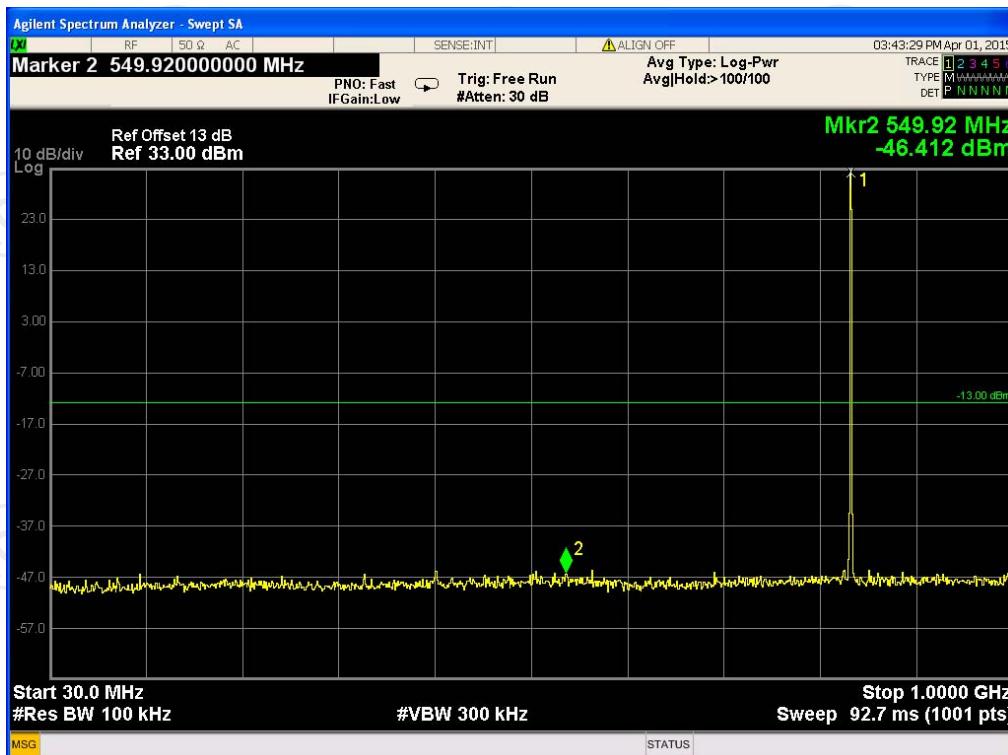
Test Mode:

GPRS Class 8 Link

## Conducted Spurious Emission on Channel 128



Conducted Spurious Emission on Channel 190



### Conducted Spurious Emission on Channel 251

