



# RADIO TEST REPORT

Report No:STS1901282W01

Issued for

TP-Link Technologies Co., Ltd.

Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central  
Science and Technology Park, Nanshan, Shenzhen, China

<b>Product Name:</b>	C7 Lite FDD-LTE Smartphone
<b>Brand Name:</b>	neffos
<b>Model Name:</b>	TP7041C
<b>Series Model:</b>	TP7041CXYZZ
<b>FCC ID:</b>	TE7C7LITEV1
<b>Test Standard:</b>	FCC Part 22H and 24E, 27

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TEST RESULT CERTIFICATION

Applicant's name ..... : TP-Link Technologies Co., Ltd.
Address..... : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Nanshan, Shenzhen, China
Manufacture's Name ..... : TP-Link Technologies Co., Ltd.
Address..... : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Nanshan, Shenzhen, China

Product description

Product Name ..... : C7 Lite FDD-LTE Smartphone
Brand Name ..... : neffos
Model Name..... : TP7041C
Series Model ..... : TP7041CXYZZ

Test Standards ..... : FCC Part 22H and 24E, 27

Test procedure ..... : KDB 971168 D01 v03r01,ANSI C63.26( 2015)

This device described above has been tested by STS 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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Date of Test ..... :

Date of performance of tests ..... : 28 Jan. 2019 ~ 15 Mar. 2019

Date of Issue ..... : 16 Mar. 2019

Test Result ..... : Pass

Testing Engineer : [Signature]
( Chris chen )

Technical Manager : [Signature]
( Sunday Hu )

Authorized Signatory : [Signature]
(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	16 Mar. 2019	STS1901282W01	ALL	Initial Issue





SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26( 2015)

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1049	Conducted OutputPower	Reporting Only	PASS	
2.0146 24.232	Peak-to-AverageRatio	< 13 dB	PASS	
2.1046 22.913 24.232 27.50	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27)	PASS	
2.1049 22.917 24.238 27.53	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235 27.54	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27)	PASS	
2.1051 22.917 24.238 27.53	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10(P[Watts])	PASS	



## 1 INTRODUCTION

### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

### 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26( 2015). All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance. °

No.	Item	Uncertainty
1	RF output power,conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions,conducted	$\pm 0.63\text{dB}$
3	All emissions,radiated 30-200MHz	$\pm 3.43\text{dB}$
4	All emissions,radiated 200MHz-1GHz	$\pm 3.57\text{dB}$
5	All emissions,radiated >1G	$\pm 4.13\text{dB}$
6	Conducted Emission(9KHz-150KHz)	$\pm 3.18\text{dB}$
7	Conducted Emission(150KHz-30MHz)	$\pm 2.70\text{dB}$



2 PRODUCT INFORMATION

Product Name	C7 Lite FDD-LTE Smartphone
Trade Name	neffos
Model Name	TP7041C
Series Model	TP7041CXYZZ
Model Difference	X=2, indicates Grey; X=4, indicates Gold, X=7, indicates Blue; X=8, indicates Red.Y=2, indicates the memory is 1GB RAM + 16GB Flash.Z='A' to 'Z', ZZ indicates different regions or customers.All models are same with electrical parameters and internal circuit structure.
Tx Frequency:	GSM/GPRS/EDGE: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency:	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz
Max RF Output Power:	GSM850:32.10dBm, PCS1900:29.52dBm GPRS850(1-Slot):32.09dBm, GPRS1900(1-Slot):29.50dBm GPRS850(2-Slot):31.67dBm, GPRS1900(2-Slot):29.06dBm GPRS850(3-Slot):31.19dBm, GPRS1900(3-Slot):28.58dBm GPRS850(4-Slot):30.78dBm, GPRS1900(4-Slot):28.14dBm EDGE 850(1-Slot):27.07dBm, EDGE 1900(1-Slot):26.10dBm EDGE 850(2-Slot):26.31dBm, EDGE 1900(2-Slot):25.32dBm EDGE 850(3-Slot):25.58dBm, EDGE 1900(3-Slot):24.59dBm EDGE 850(4-Slot):24.79dBm, EDGE 1900(4-Slot):23.86dBm WCDMABand V:22.65dBm, WCDMA Band II:22.98dBm WCDMA Band IV:22.65dBm
Type of Emission:	GSM(850): 322KGXW; GSM(1900): 317KGXW GPRS(850): 317KGXW; GPRS(1900): 323KGXW EDGE(850): 337KG7W; EDGE(1900): 329KG7W WCDMA850: 4M69F9W WCDMA1900: 4M70F9W WCDMA1700: 4M68F9W
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset,SIM 1 is used to tested
Antenna:	PIFA Antenna



Antenna gain:	GSM 850: -2.5dBi ,PCS 1900:-0.5dBi WCDMA 850: -2.5dBi, WCDMA1900: -0.5dBi, WCDMA1700: -1.5dBi
Power Supply:	DC 3.8V by battery
Battery parameter:	Capacity: 2150mAh, Rated Voltage: 3.8V
Adapter:	Input: AC 100-240V, 200mA, 50/60Hz Output: DC 5V, 1000mA
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.3 V to 4.35 V (Nominal DC3.8V )
Extreme Temp. Tolerance:	-30°C to +50°C
Hardware version number:	V01A
Software version number:	V01_20190115
<i>** Note: The High Voltage 4.35 V and Low Voltage 3.3 V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.</i>	





### 3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems 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 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 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:

BAND	TEST MODES	
	RADIATED TCS	CONDUCTED TCS
GSM 850	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND II	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND IV	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK



## 4 MEASUREMENT INSTRUMENTS

## Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Wireless Communications Test Set	R&S	CMW 500	133884	2019.03.02	2020.03.01
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2018.10.13	2019.10.12
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2018.10.13	2019.10.12
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10

## RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Universal Radio communication tester	R&S	CMU200	11764	2018.10.13	2019.10.12
Wireless Communications Test Set	R&S	CMW 500	133884	2018.03.11	2019.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10

Equipment with a calibration date of "NCR" shown in this list was not used to make direct calibrated measurements.



## 5 TEST ITEMS

### 5.1 CONDUCTED OUTPUT POWER

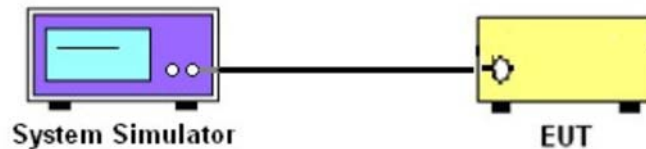
#### Test overview

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

#### Test procedures

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

#### Test setup





## 5.2 PEAK TO AVERAGE RATIO

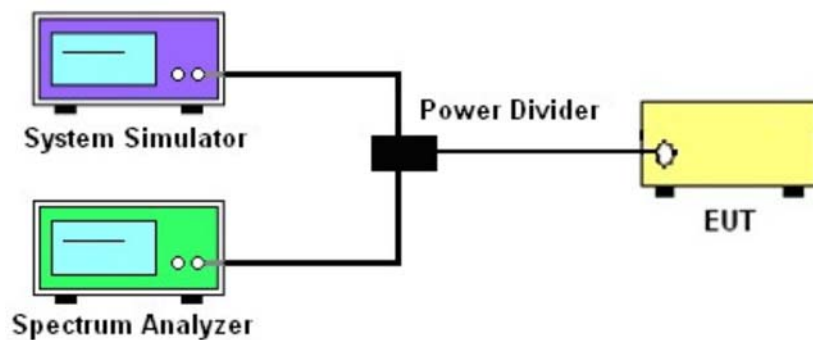
### TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

### TEST PROCEDURES

1. The testing follows fckdb 971168 v03r01 section
2. The eut was connected to the and peak and av system simulator& spectrum analysis reads
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis

### TEST SETUP





### 5.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

#### TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

#### TEST PROCEDURE

1. The testing follows FCC KDB 971168 D01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2 (for GSM/GPRS/EDGE) and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP/ERP was calculated with the correction factor,  
$$\text{ERP/EIRP} = \text{P.SG} + \text{GT} - \text{LC}$$
  
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub> as, typically dBW or dBm);  
P<sub>Meas</sub>(PK) = measured transmitter output power or PSD, in dBm or dBW;  
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);  
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

## 5.4 OCCUPIED BANDWIDTH

### TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

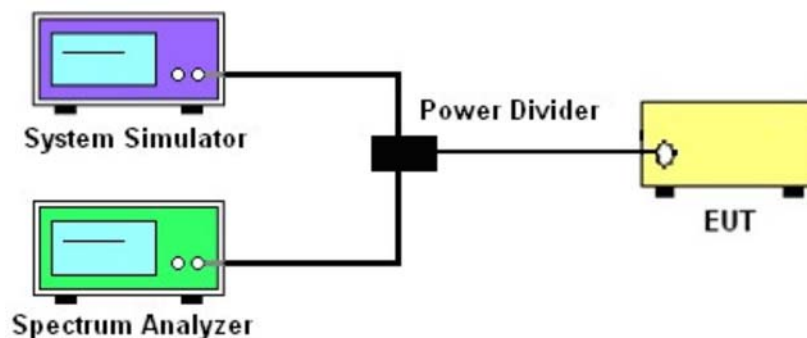
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth)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

All modes of operation were investigated and the worst case configuration results are reported in this section.

### TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2.  $RBW = 1 - 5\%$  of the expected OBW
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

### TEST SETUP





## 5.5 FREQUENCY STABILITY

### Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### Test Procedure

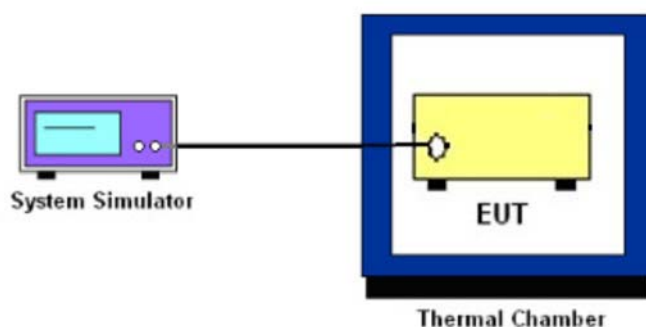
#### Temperature Variation

1. The testing follows fccdb 971168 D01 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.

#### Voltage Variation

1. The testing follows FCC KDB 971168 D01 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.

### TEST SETUP



## 5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### Test Overview

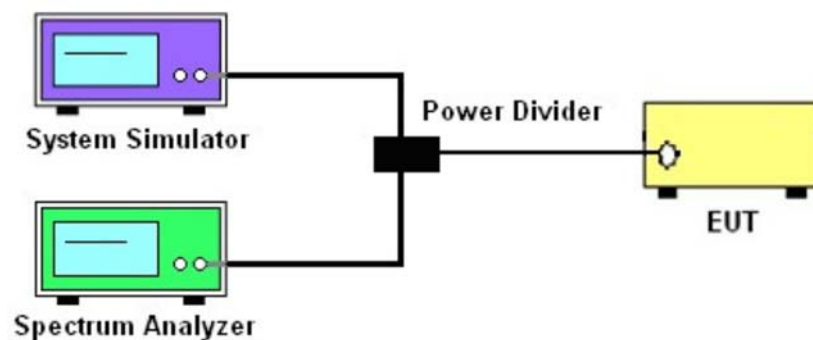
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### Test procedure

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.5
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13\text{dBm}$ .

### Test Setup







## 5.7 BAND EDGE

### OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is  $43 + \log_{10}(P[\text{Watts}])$ , where P is the transmitter power in Watts.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. 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.

5. The band edges of low and high channels for the highest RF powers were measured.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

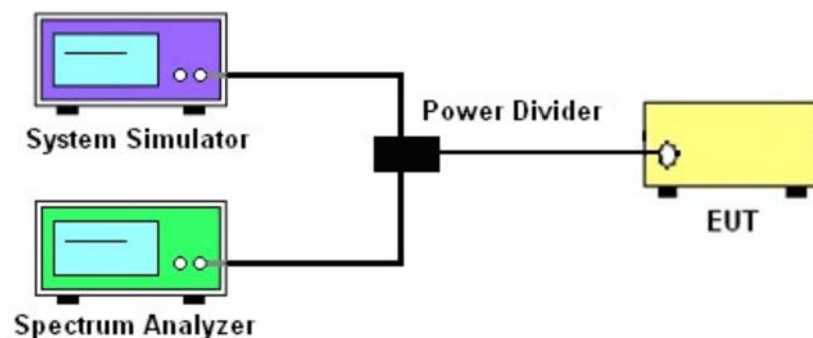
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$$

$$= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$$

$$= -13\text{dBm}.$$

### TEST SETUP





## 5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### Test overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

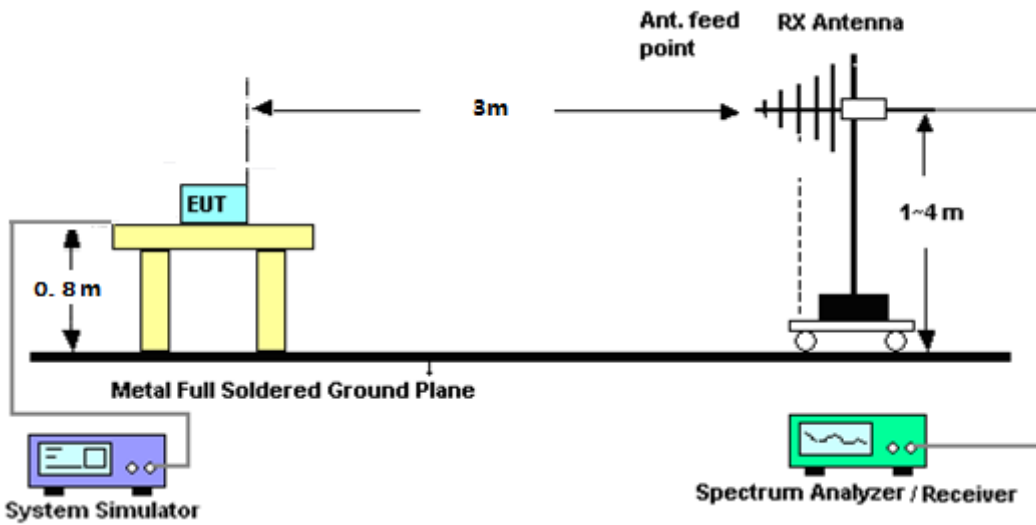
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### Test procedure

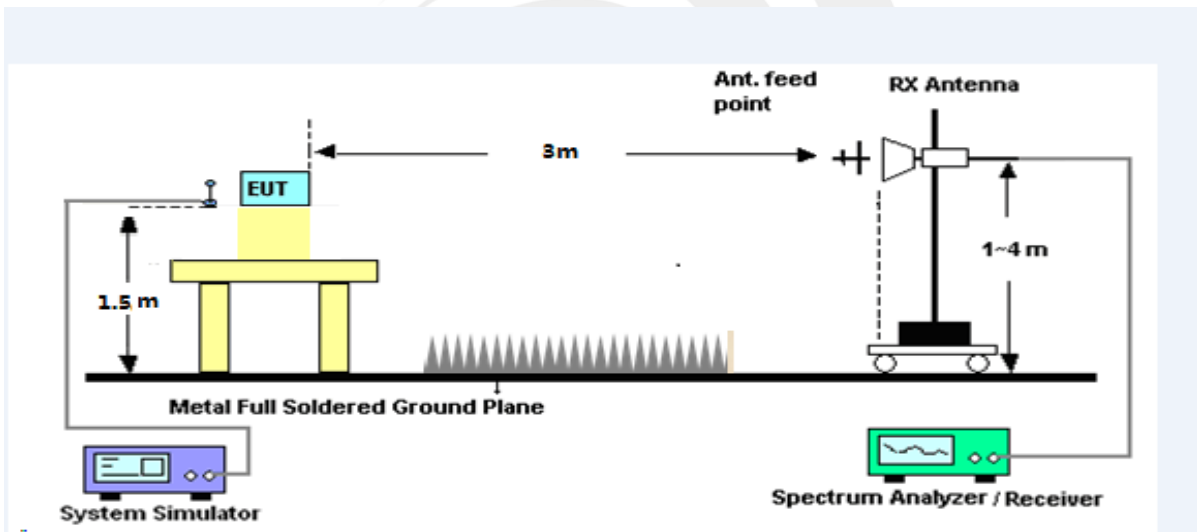
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $> 2 \times$  span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP/ERP was calculated with the correction factor,  
 $ERP/EIRP = P.SG + GT - LC$   
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm);  
P.SG = measured transmitter output power or PSD, in dBm or dBW;  
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);  
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

**TEST SETUP**

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



APPENDIX A.TESTRESULT  
A1.CONDUCTED OUTPUT POWER

GSM 850:

Mode	Frequency (MHz)	AVG Power(dBm)
GSM	824.2	32.07
	836.6	<b>32.10</b>
	848.8	32.09
GPRS(GMSK,1-Slot)	824.2	32.05
	836.6	32.09
	848.8	32.06
GPRS(GMSK,2-Slot)	824.2	31.59
	836.6	31.67
	848.8	31.62
GPRS(GMSK,3-Slot)	824.2	31.18
	836.6	31.19
	848.8	31.16
GPRS(GMSK,4-Slot)	824.2	30.75
	836.6	30.78
	848.8	30.73
EGPRS(8PSK,1-Slot)	824.2	27.07
	836.6	26.52
	848.8	26.92
EGPRS(8PSK,2-Slot)	824.2	26.31
	836.6	25.75
	848.8	26.21
EGPRS(8PSK,3-Slot)	824.2	25.58
	836.6	25.00
	848.8	25.48
EGPRS(8PSK,4-Slot)	824.2	24.79
	836.6	24.28
	848.8	24.71



PCS 1900:

Mode	Frequency (MHz)	AVG Power(dBm)
GSM	1850.2	29.52
	1880.0	29.37
	1909.8	29.26
GPRS(GMSK,1-Slot)	1850.2	29.5
	1880.0	29.35
	1909.8	29.26
GPRS(GMSK,2-Slot)	1850.2	29.06
	1880.0	28.94
	1909.8	28.84
GPRS(GMSK,3-Slot)	1850.2	28.58
	1880.0	28.44
	1909.8	28.41
GPRS(GMSK,4-Slot)	1850.2	28.14
	1880.0	27.97
	1909.8	27.92
EGPRS(8PSK,1-Slot)	1850.2	26.03
	1880.0	26.1
	1909.8	25.74
EGPRS(8PSK,2-Slot)	1850.2	25.28
	1880.0	25.32
	1909.8	24.97
EGPRS(8PSK,3-Slot)	1850.2	24.54
	1880.0	24.59
	1909.8	24.24
EGPRS(8PSK,4-Slot)	1850.2	23.76
	1880.0	23.86
	1909.8	23.52



## UMTS BAND V

Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	<b>22.65</b>
	836.6	22.58
	846.6	22.55
HSDPA Subtest 1	826.4	22.09
	836.6	22.01
	846.6	22.08
HSDPA Subtest 2	826.4	21.59
	836.6	21.55
	846.6	21.61
HSDPA Subtest 3	826.4	21.19
	836.6	21.11
	846.6	21.28
HSDPA Subtest 4	826.4	20.82
	836.6	20.78
	846.6	20.85
HSUPA Subtest 1	826.4	22.07
	836.6	21.97
	846.6	21.66
HSUPA Subtest 2	826.4	21.21
	836.6	21.06
	846.6	20.76
HSUPA Subtest 3	826.4	21.11
	836.6	20.63
	846.6	20.45
HSUPA Subtest 4	826.4	20.72
	836.6	20.18
	846.6	19.99
HSUPA Subtest 5	826.4	19.23
	836.6	18.70
	846.6	18.52



## UMTS BAND II

Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	22.87
	1880	22.98
	1907.6	22.93
HSDPA Subtest 1	1852.4	22.65
	1880	22.60
	1907.6	22.62
HSDPA Subtest 2	1852.4	22.15
	1880	22.11
	1907.6	22.16
HSDPA Subtest 3	1852.4	21.72
	1880	21.64
	1907.6	21.77
HSDPA Subtest 4	1852.4	21.23
	1880	21.34
	1907.6	21.39
HSUPA Subtest 1	1852.4	22.57
	1880	22.54
	1907.6	22.15
HSUPA Subtest 2	1852.4	21.69
	1880	21.63
	1907.6	21.24
HSUPA Subtest 3	1852.4	21.56
	1880	21.14
	1907.6	20.91
HSUPA Subtest 4	1852.4	21.23
	1880	20.66
	1907.6	20.42
HSUPA Subtest 5	1852.4	19.75
	1880	19.20
	1907.6	19.00



## UMTS BAND IV

Mode	Frequency(MHz)	AVG Power
WCDMA 1700 RMC	1712.6	<b>22.65</b>
	1740	22.60
	1752.4	22.62
HSDPA Subtest 1	1712.6	22.11
	1740	22.12
	1752.4	22.20
HSDPA Subtest 2	1712.6	21.71
	1740	21.63
	1752.4	21.76
HSDPA Subtest 3	1712.6	21.40
	1740	21.14
	1752.4	21.42
HSDPA Subtest 4	1712.6	20.99
	1740	20.82
	1752.4	20.98
HSUPA Subtest 1	1712.6	22.10
	1740	22.06
	1752.4	21.80
HSUPA Subtest 2	1712.6	21.22
	1740	21.08
	1752.4	20.81
HSUPA Subtest 3	1712.6	21.17
	1740	20.67
	1752.4	20.39
HSUPA Subtest 4	1712.6	20.82
	1740	20.19
	1752.4	20.03
HSUPA Subtest 5	1712.6	19.41
	1740	18.71
	1752.4	18.60





## A2. PEAK-TO-AVERAGE RADIO

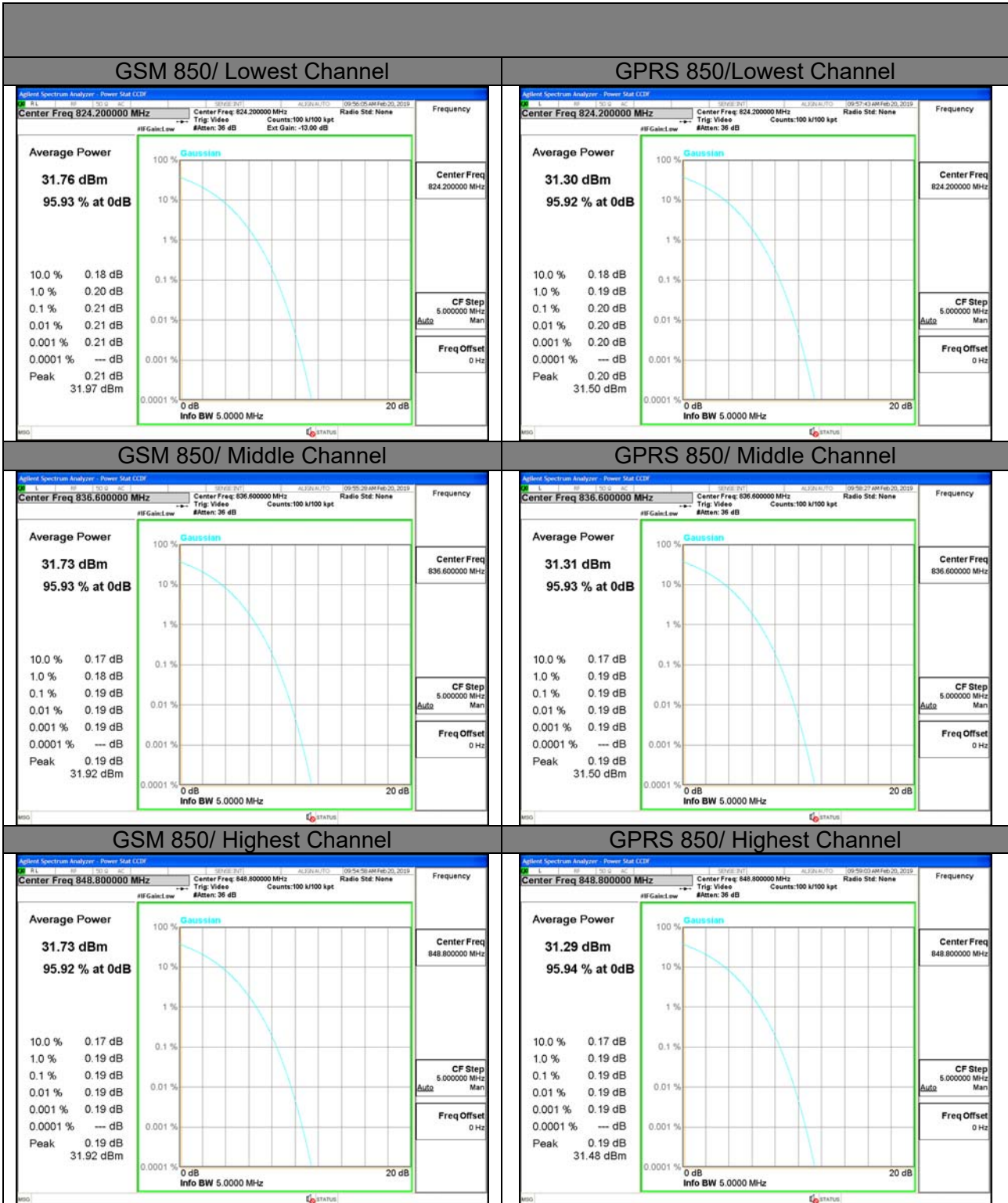
Mode	Frequency (MHz)	PAR (dB)
GSM850	824.2	0.21
	836.6	0.19
	848.8	0.19
GPRS850	824.2	0.20
	836.6	0.19
	848.8	0.19
EDGE850(8PSK)	824.2	2.59
	836.6	2.58
	848.8	2.50
PCS1900	1850.2	0.14
	1880	0.11
	1909.8	0.10
GPRS1900	1850.2	0.10
	1880	0.10
	1909.8	0.11
EDGE1900(8PSK)	1850.2	2.95
	1880	2.89
	1909.8	2.75



Mode	Frequency (MHz)	PAR (dB)
WCDMA 850 RMC	826.4	3.07
	836.6	3.12
	846.6	2.77
HSDPA 850	826.4	3.33
	836.6	3.31
	846.6	3.23
HSUPA 850	826.4	3.43
	836.6	3.45
	846.6	3.33
WCDMA 1900 RMC	1852.4	2.90
	1880	2.89
	1907.6	2.73
HSDPA 1900	1852.4	3.30
	1880	3.29
	1907.6	3.31
HSUPA 1900	1852.4	3.25
	1880	3.35
	1907.6	3.26
WCDMA 1700 RMC	1712.6	3.00
	1740	2.99
	1752.4	3.04
HSDPA 1700	1712.6	3.36
	1740	3.36
	1752.4	3.46
HSUPA 1700	1712.6	3.46
	1740	3.28
	1752.4	3.38

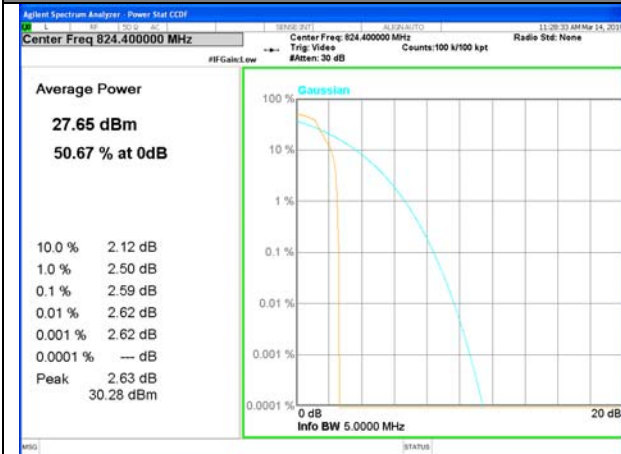


GSM 850

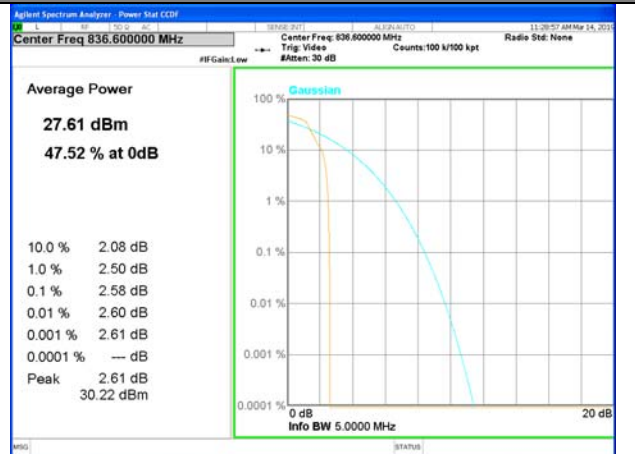




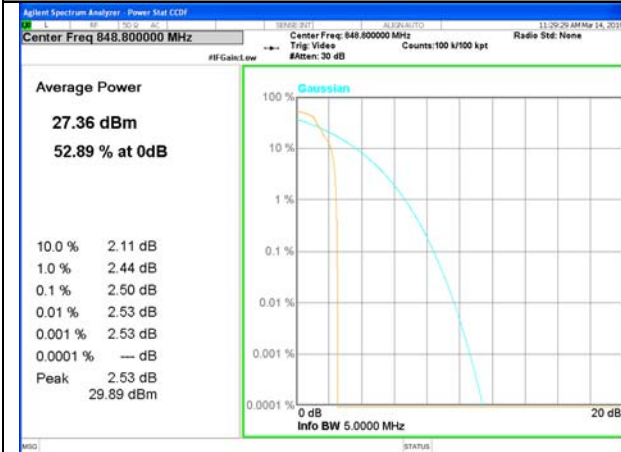
EDGE 850/ Lowest Channel



EDGE 850/ Middle Channel

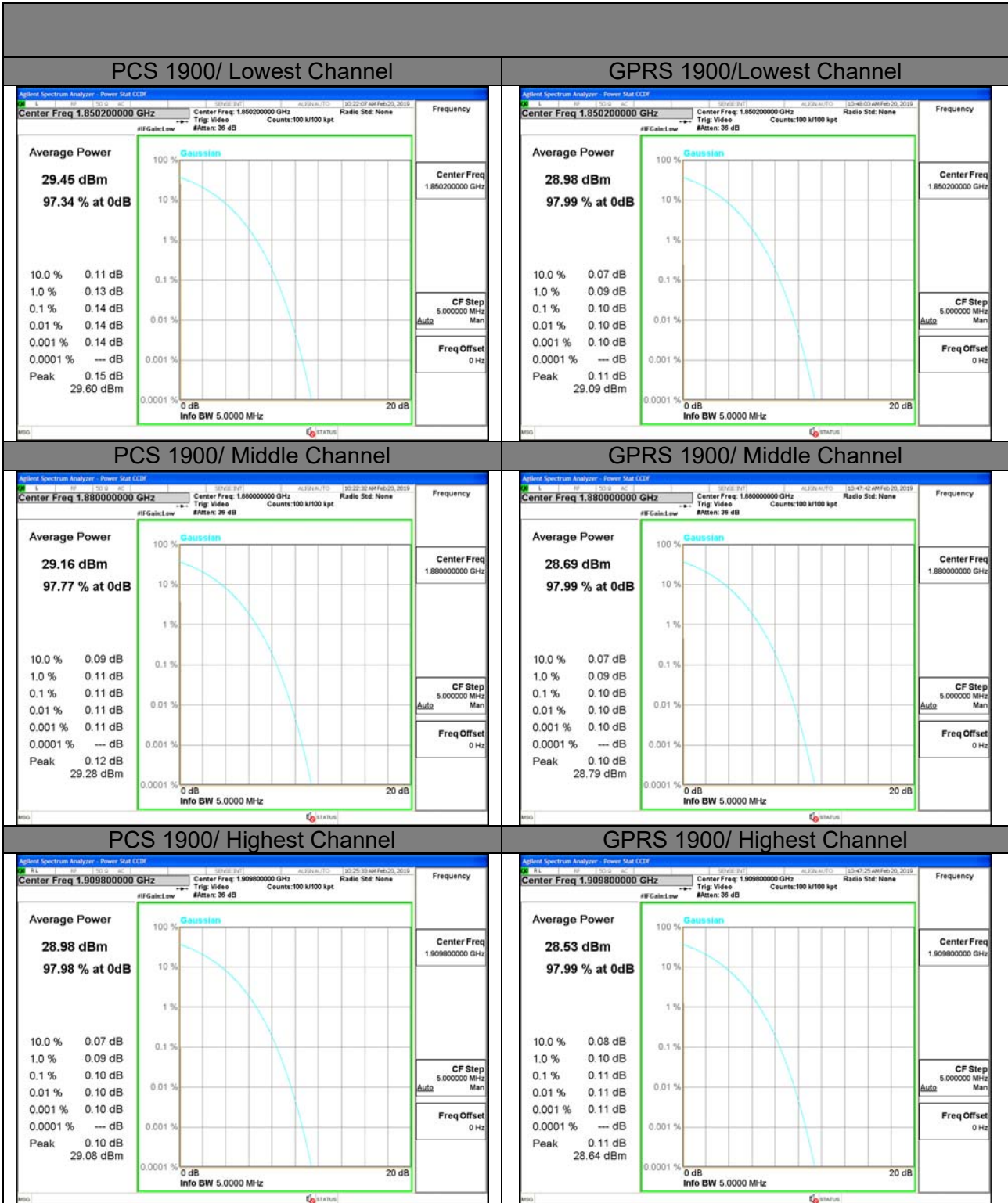


EDGE 850/ Highest Channel



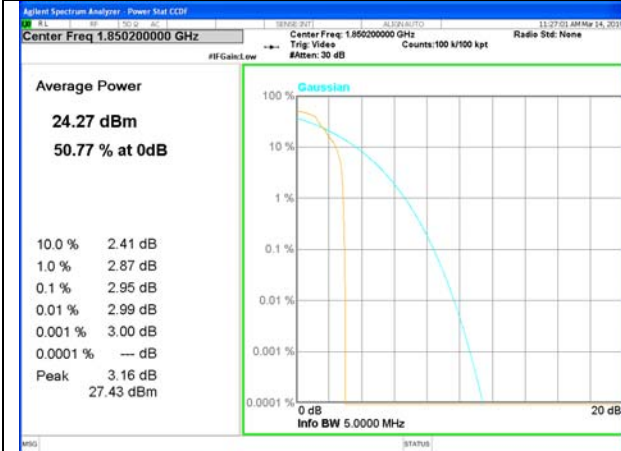


PCS 1900

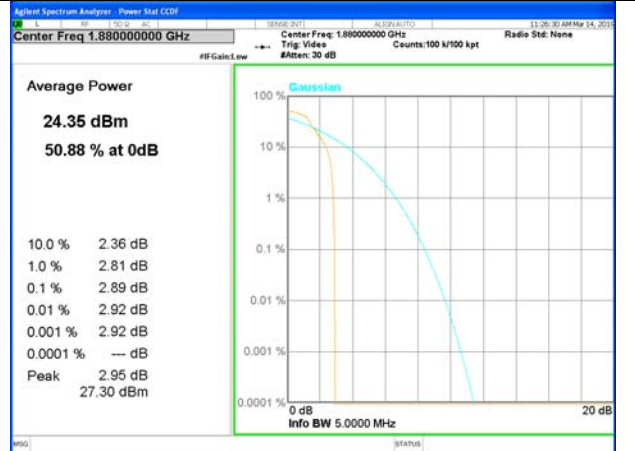




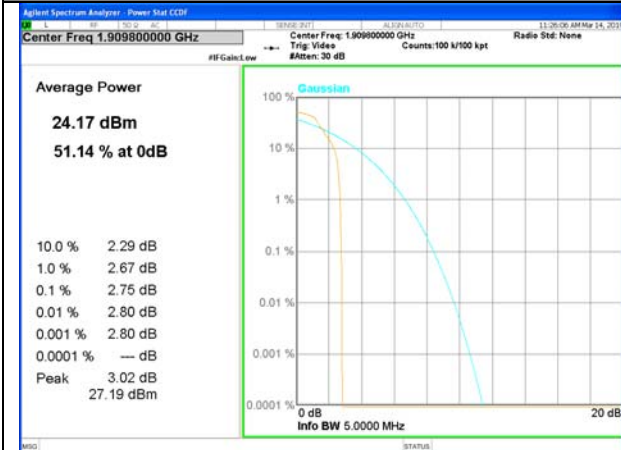
EDGE 1900/ Lowest Channel



EDGE 1900/ Middle Channel

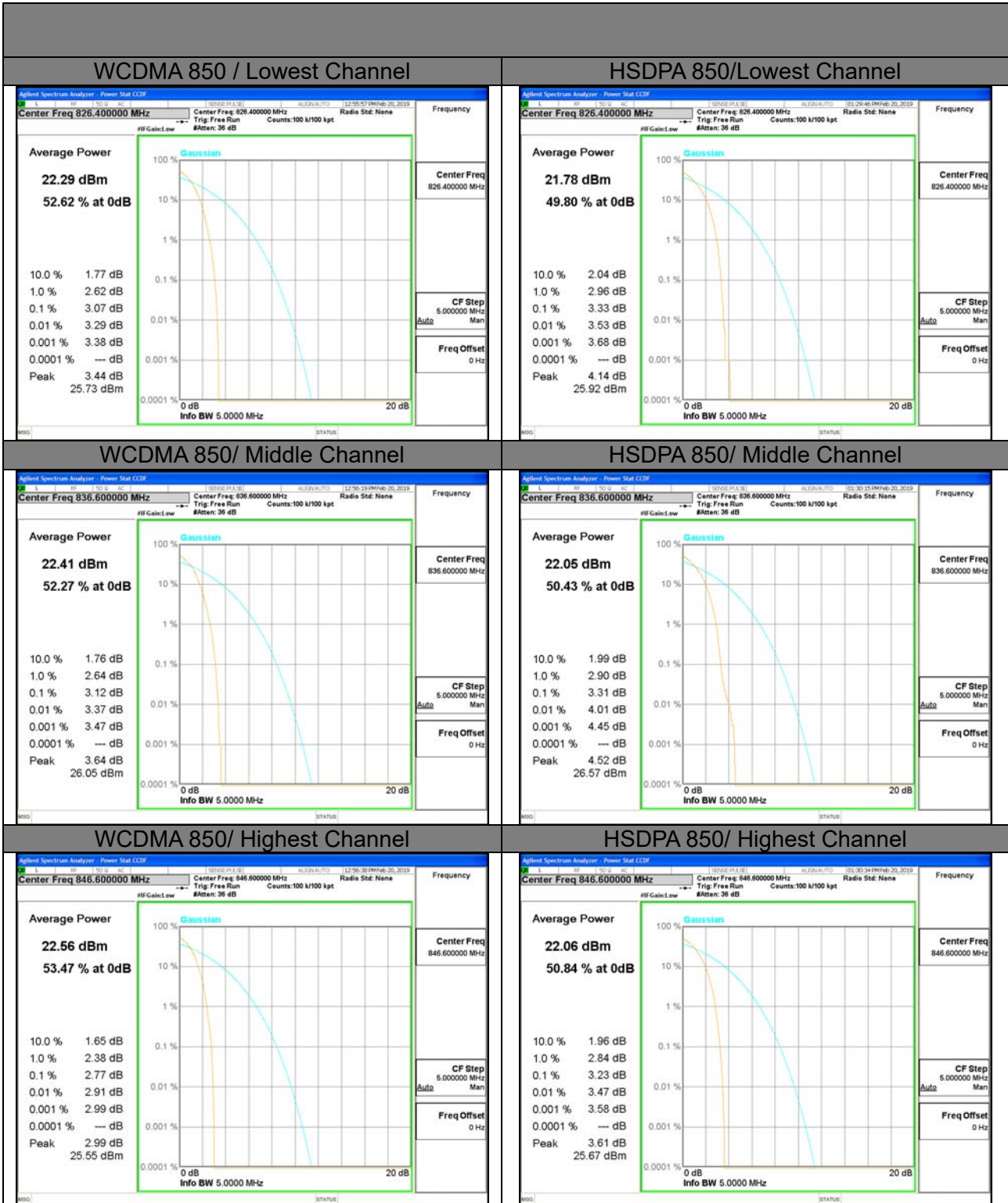


EDGE 1900/ Highest Channel



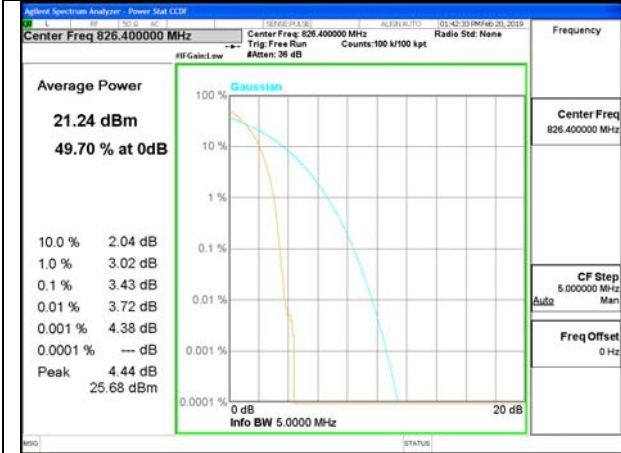


WCDMA BAND V

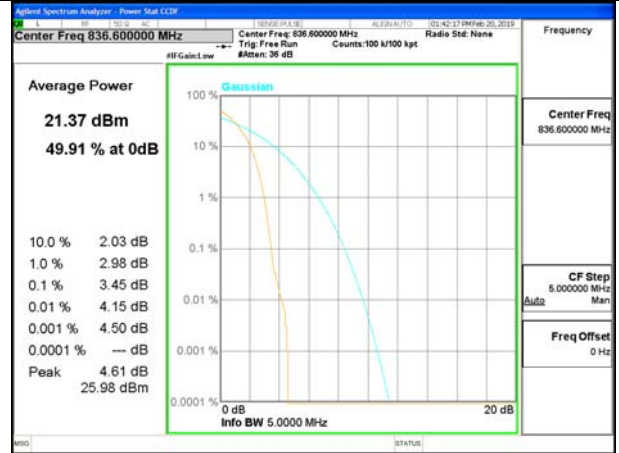




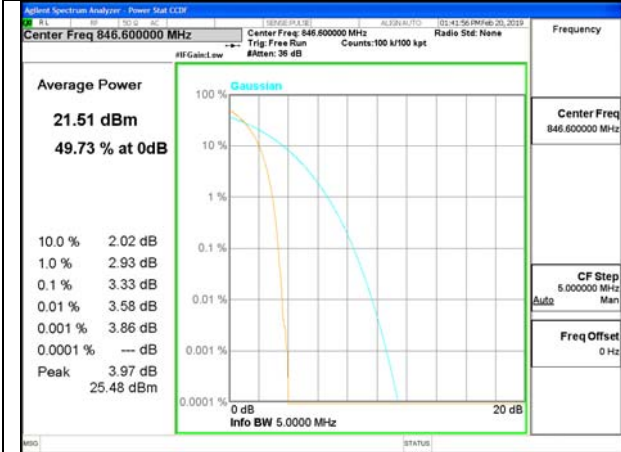
HSUPA 850/ Lowest Channel



HSUPA 850/ Middle Channel



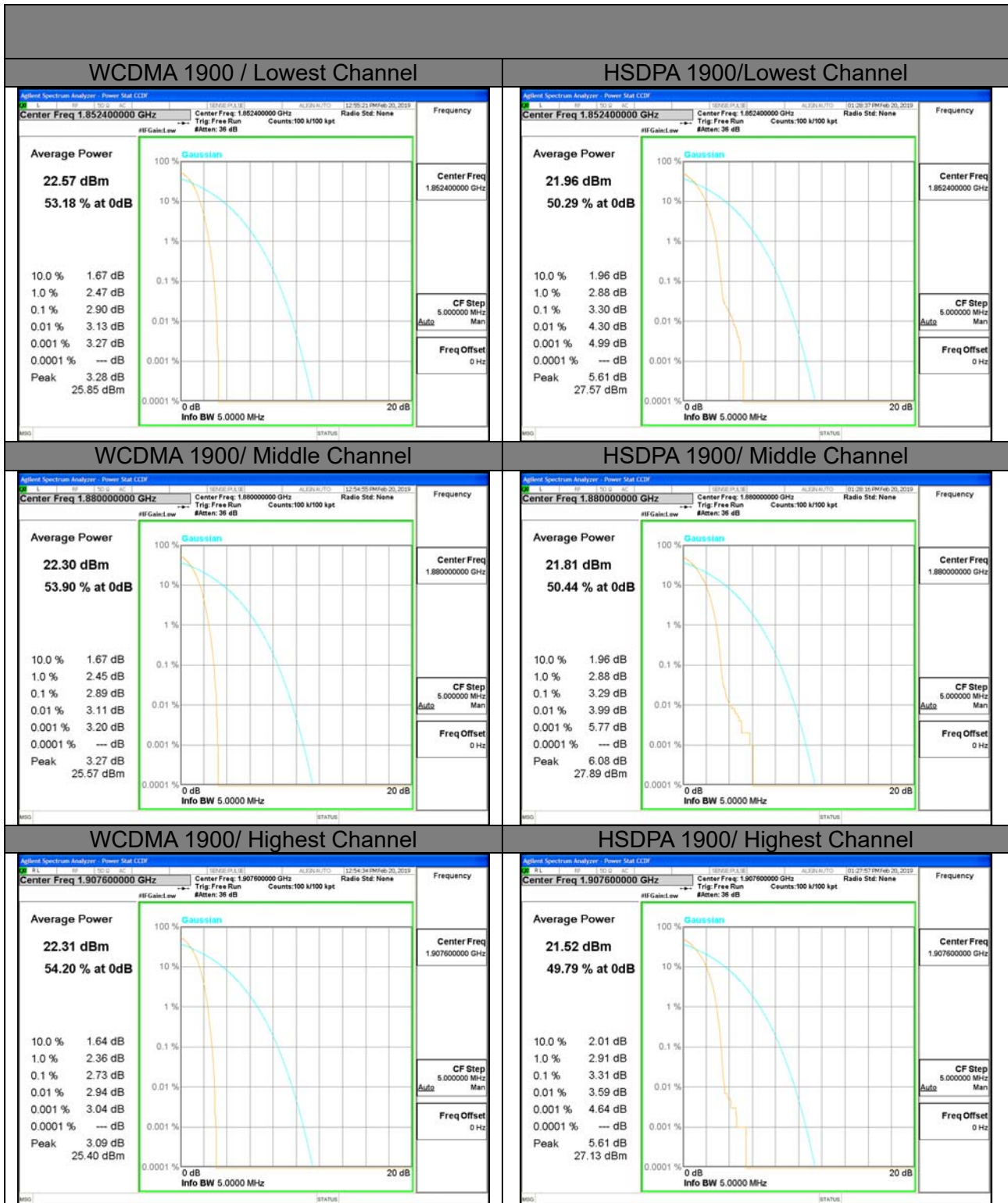
HSUPA 850/ Highest Channel

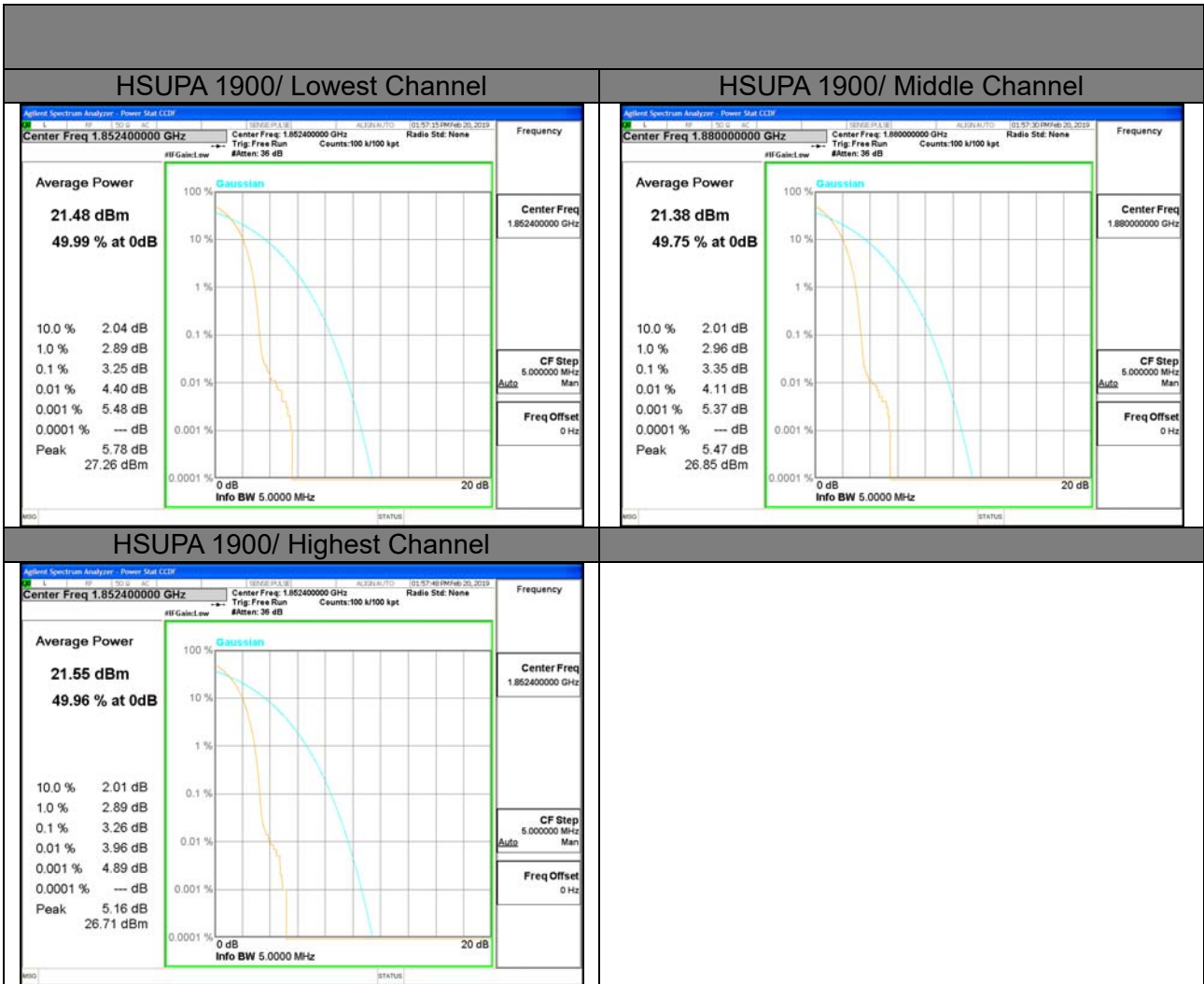






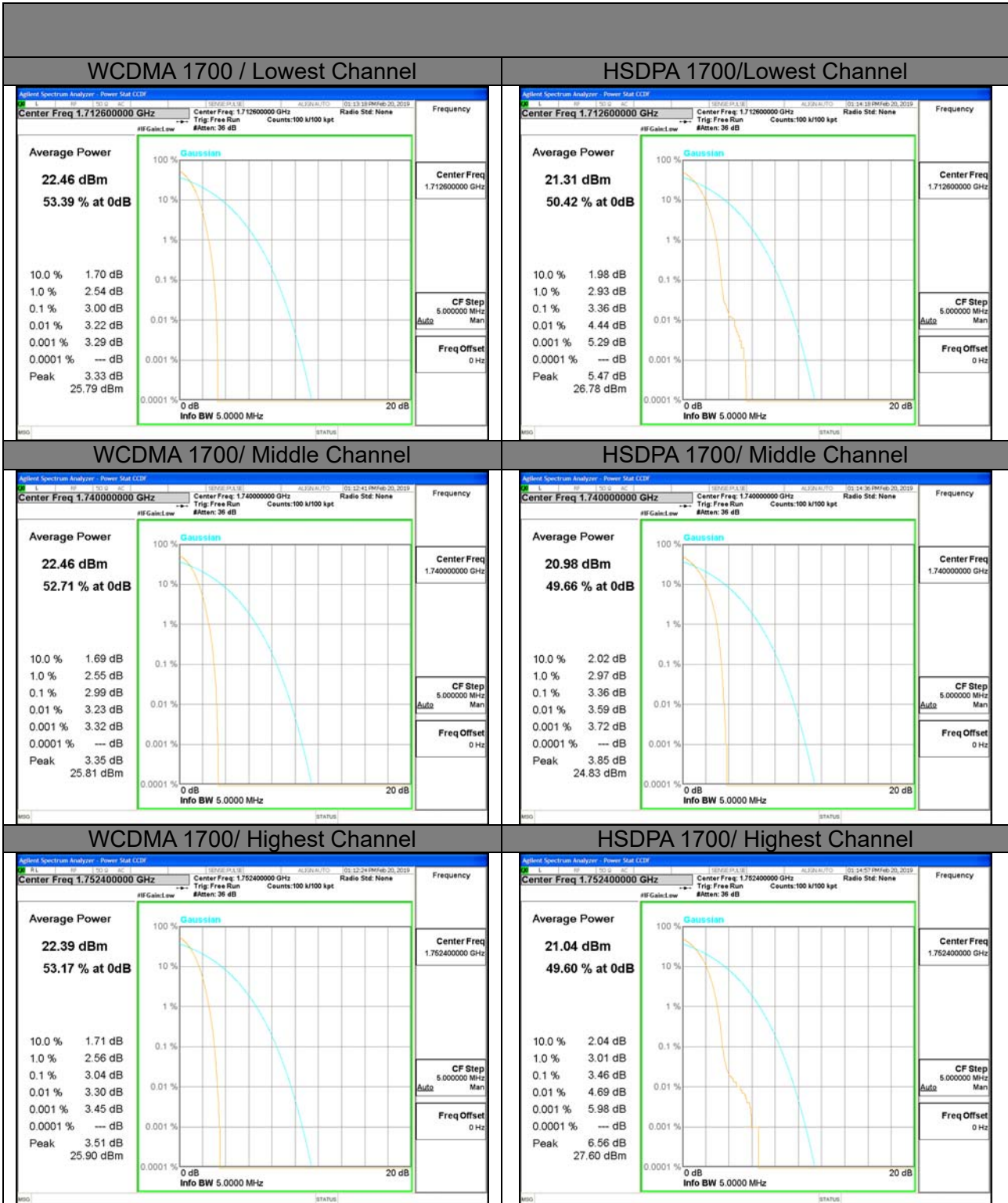
WCDMA BAND II





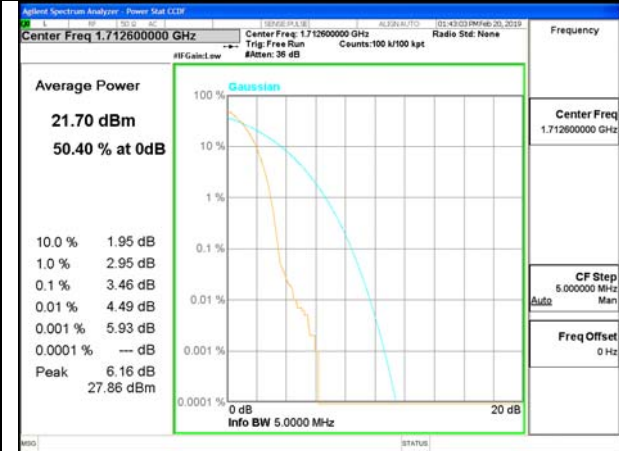


WCDMA BAND IV





HSUPA 1700/ Lowest Channel



HSUPA 1700/ Middle Channel



HSUPA 1700/ Highest Channel





A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

Radiated Power (ERP) for GSM 850 MHZ							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	23.54	0.44	6.5	29.60	Horizontal	Pass
	824.2	25.45	0.44	6.5	31.51	Vertical	Pass
	836.6	23.69	0.45	6.5	29.74	Horizontal	Pass
	836.6	25.55	0.45	6.5	31.60	Vertical	Pass
	848.8	23.67	0.46	6.5	29.71	Horizontal	Pass
	848.8	25.51	0.46	6.5	31.55	Vertical	Pass
GPRS850	824.2	23.67	0.44	6.5	29.73	Horizontal	Pass
	824.2	25.42	0.44	6.5	31.48	Vertical	Pass
	836.6	23.68	0.45	6.5	29.73	Horizontal	Pass
	836.6	25.49	0.45	6.5	31.54	Vertical	Pass
	848.8	23.64	0.46	6.5	29.68	Horizontal	Pass
	848.8	25.25	0.46	6.5	31.29	Vertical	Pass
EDGE850	824.2	20.37	0.44	6.5	26.43	Horizontal	Pass
	824.2	20.25	0.44	6.5	26.31	Vertical	Pass
	836.6	19.95	0.45	6.5	26.00	Horizontal	Pass
	836.6	20.15	0.45	6.5	26.20	Vertical	Pass
	848.8	20.17	0.46	6.5	26.21	Horizontal	Pass
	848.8	19.89	0.46	6.5	25.93	Vertical	Pass
Limit	E.R.P < 7W = 38.45dBm						

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.



Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP.	
PCS1900	1850.2	19.13	2.41	10.35	27.07	Horizontal	Pass
	1850.2	21.02	2.41	10.35	28.96	Vertical	Pass
	1880	18.97	2.42	10.35	26.9	Horizontal	Pass
	1880	20.74	2.42	10.35	28.67	Vertical	Pass
	1909.8	18.69	2.43	10.35	26.61	Horizontal	Pass
	1909.8	20.66	2.43	10.35	28.58	Vertical	Pass
GPRS1900	1850.2	19.03	2.41	10.35	26.97	Horizontal	Pass
	1850.2	20.75	2.41	10.35	28.69	Vertical	Pass
	1880	18.93	2.42	10.35	26.86	Horizontal	Pass
	1880	20.73	2.42	10.35	28.66	Vertical	Pass
	1909.8	18.75	2.43	10.35	26.67	Horizontal	Pass
	1909.8	20.44	2.43	10.35	28.36	Vertical	Pass
EDGE1900	1850.2	16.69	2.41	10.35	24.63	Horizontal	Pass
	1850.2	16.34	2.41	10.35	24.28	Vertical	Pass
	1880	16.92	2.42	10.35	24.85	Horizontal	Pass
	1880	16.43	2.42	10.35	24.36	Vertical	Pass
	1909.8	16.26	2.43	10.35	24.18	Horizontal	Pass
	1909.8	15.91	2.43	10.35	23.83	Vertical	Pass
Limit	E.I.R.P < 2W=33dBm						

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.



Radiated Power (ERP) for WCDMA Band V							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P (dBm)	Polarization Of Max.ERP	
Band V	826.4	14.06	0.44	6.5	20.12	Horizontal	Pass
	826.4	16.04	0.44	6.5	22.10	Vertical	Pass
	836.6	14.26	0.45	6.5	20.31	Horizontal	Pass
	836.6	16.01	0.45	6.5	22.06	Vertical	Pass
	846.4	14.08	0.46	6.5	20.12	Horizontal	Pass
	846.4	16.04	0.46	6.5	22.08	Vertical	Pass
Limit	E.R.P < 7W=38.45dBm						

Radiated Power (EIRP) for WCDMA Band II							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max.EIRP	
Band II	1852.4	12.51	2.41	10.35	20.45	Horizontal	Pass
	1852.4	14.37	2.41	10.35	22.31	Vertical	Pass
	1880	12.53	2.42	10.35	20.46	Horizontal	Pass
	1880	14.51	2.42	10.35	22.44	Vertical	Pass
	1907.4	12.67	2.43	10.35	20.59	Horizontal	Pass
	1907.4	14.49	2.43	10.35	22.41	Vertical	Pass
Limit	E.I.R.P < 2W=33dBm						



Radiated Power (EIRP) for WCDMA Band IV							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max.EIRP	
Band IV	1712.6	12.19	2.07	10.13	20.25	Horizontal	Pass
	1712.6	14.05	2.07	10.13	22.11	Vertical	Pass
	1740	12.18	2.08	10.13	20.23	Horizontal	Pass
	1740	13.98	2.08	10.13	22.03	Vertical	Pass
	1752.4	12.13	2.09	10.13	20.17	Horizontal	Pass
	1752.4	13.97	2.09	10.13	22.01	Vertical	Pass
Limit	E.I.R.P < 3W=34.78dBm						

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.





A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

<b>Occupied Bandwidth for GSM 850 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	824.2	244.49	320.7
Middle Channel	836.6	246.55	322.0
High Channel	848.8	246.73	322.2
<b>Occupied Bandwidth for GPRS 850 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	824.2	246.65	317.3
Middle Channel	836.6	244.97	312.5
High Channel	848.8	243.23	315.0
<b>Occupied Bandwidth for EGPRS 850 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	824.2	245.23	322.1
Middle Channel	836.6	255.58	337.0
High Channel	848.8	249.24	317.2



<b>Occupied Bandwidth for GSM1900 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	1850.2	245.29	313.8
Middle Channel	1880.0	246.01	317.2
High Channel	1909.8	247.33	315.9
<b>Occupied Bandwidth for GPRS 1900 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	1850.2	246.97	323.1
Middle Channel	1880.0	242.81	314.2
High Channel	1909.8	245.72	321.0
<b>Occupied Bandwidth for EDGE 1900 band</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( kHz)	Emission Bandwidth (-26dBc)( kHz)
Low Channel	1850.2	245.29	313.8
Middle Channel	1880.0	246.01	317.2
High Channel	1909.8	247.33	315.9



<b>Occupied Bandwidth for UMTS band V</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( MHz)	Emission Bandwidth (-26dBc)( MHz)
Low Channel	826.4	4.1668	4.677
Middle Channel	836.6	4.1626	4.684
High Channel	846.6	4.1707	4.689

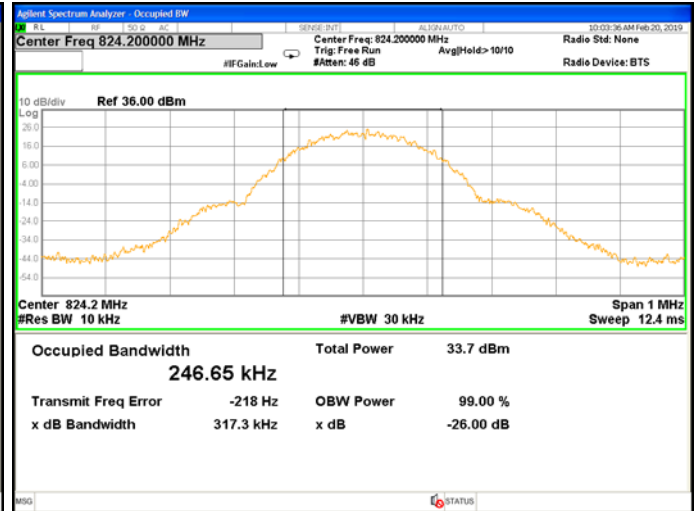
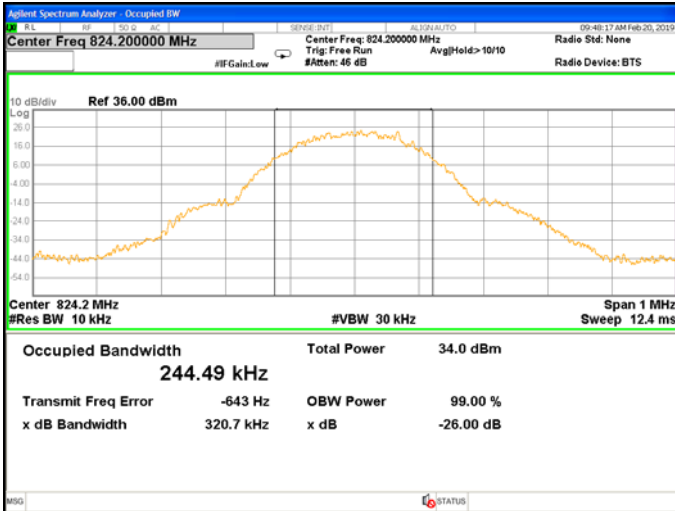
<b>Occupied Bandwidth for UMTS band II</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( MHz)	Emission Bandwidth (-26dBc)( MHz)
Low Channel	1852.4	4.1768	4.689
Middle Channel	1880	4.1768	4.689
High Channel	1907.6	4.1766	4.673

<b>Occupied Bandwidth for UMTS band IV</b>			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)( MHz)	Emission Bandwidth (-26dBc)( MHz)
Low Channel	1712.6	4.1696	4.679
Middle Channel	1740	4.1640	4.678
High Channel	1752.4	4.1576	4.670



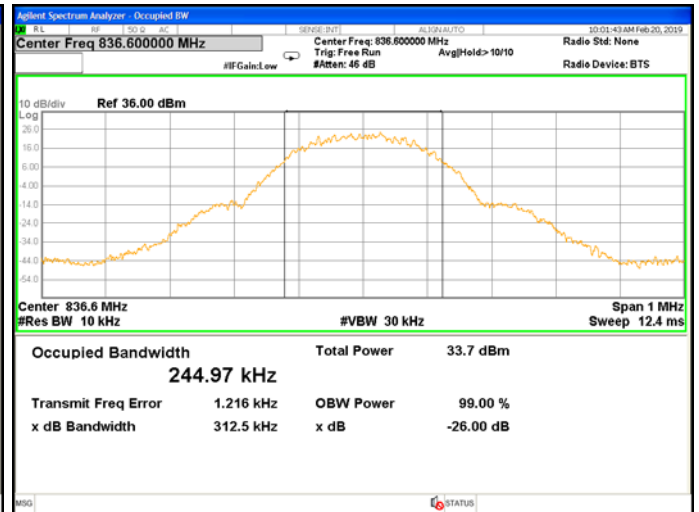
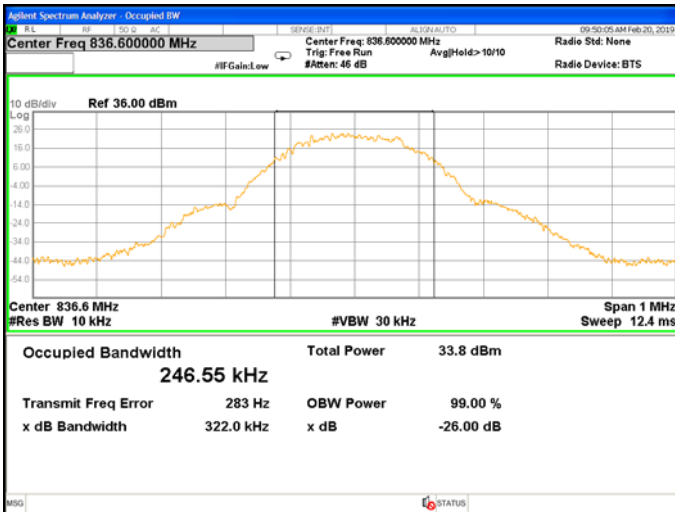
### GSM 850 CH 128

### GPRS 850 CH 128



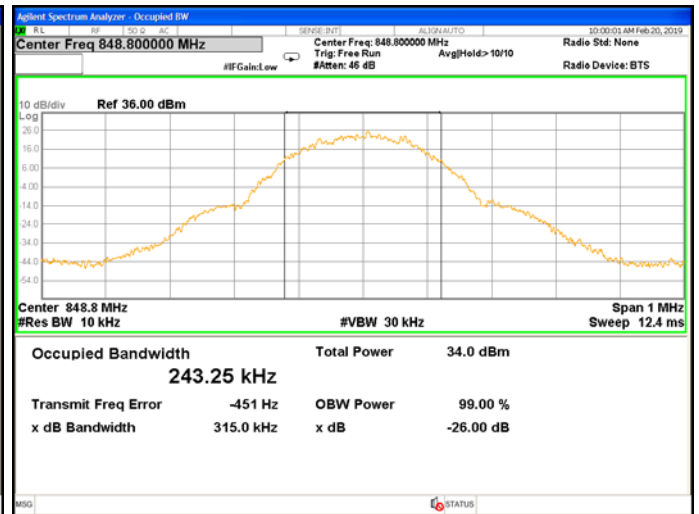
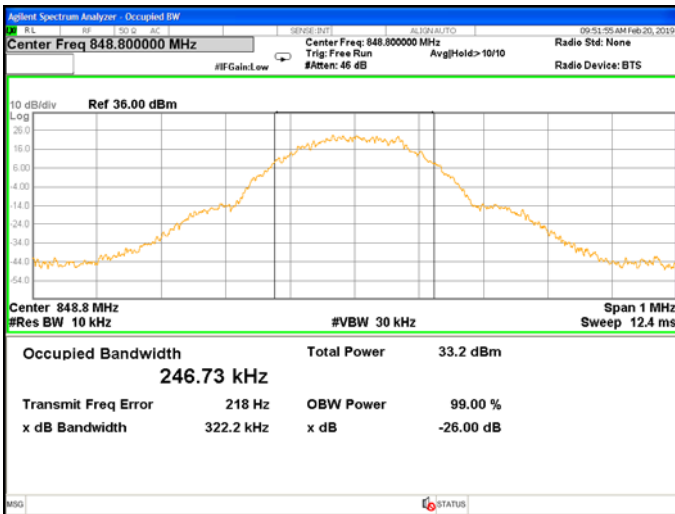
### GSM 850 CH 190

### GPRS 850 CH 190



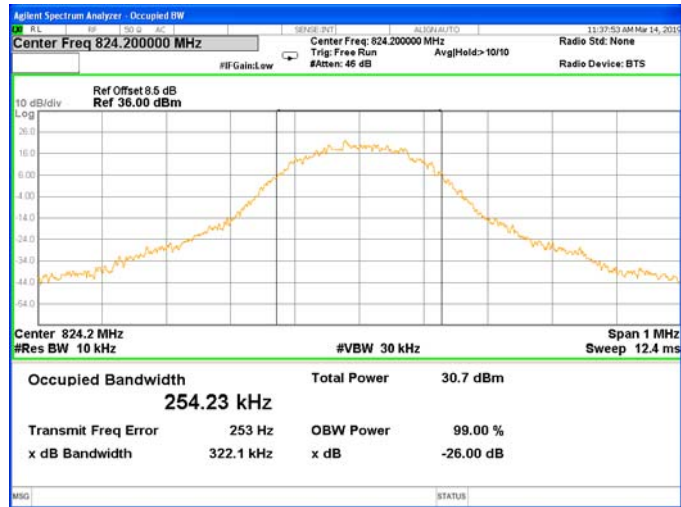
### GSM 850 CH 251

### GPRS 850 CH 251

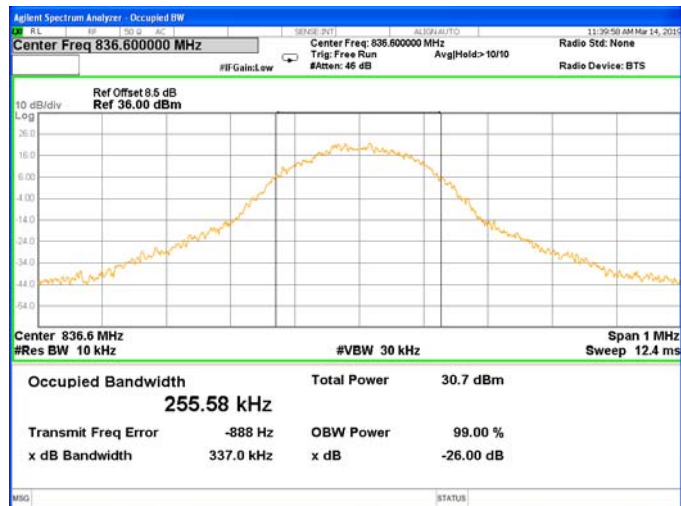




### EDGE 850 CH 128



### EDGE 850 CH 190



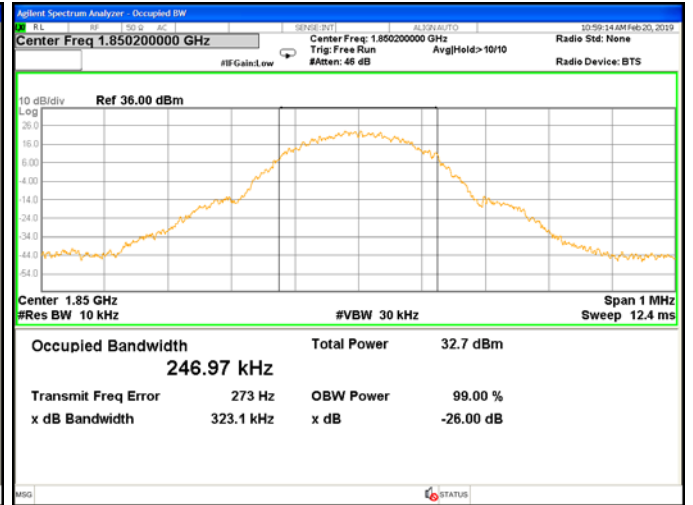
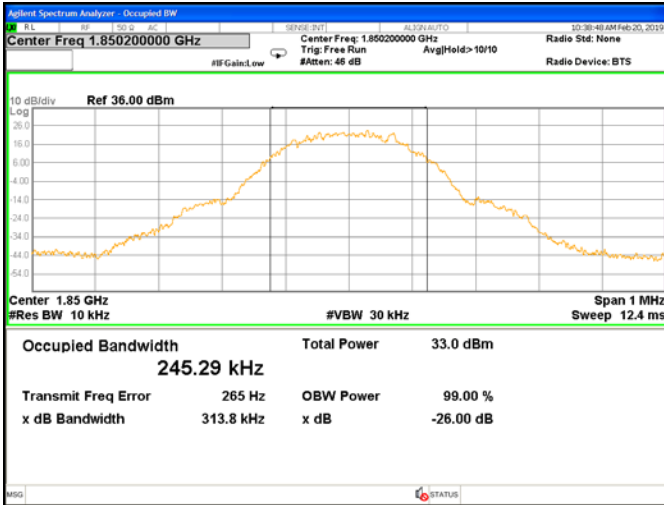
### EDGE 850 CH 251





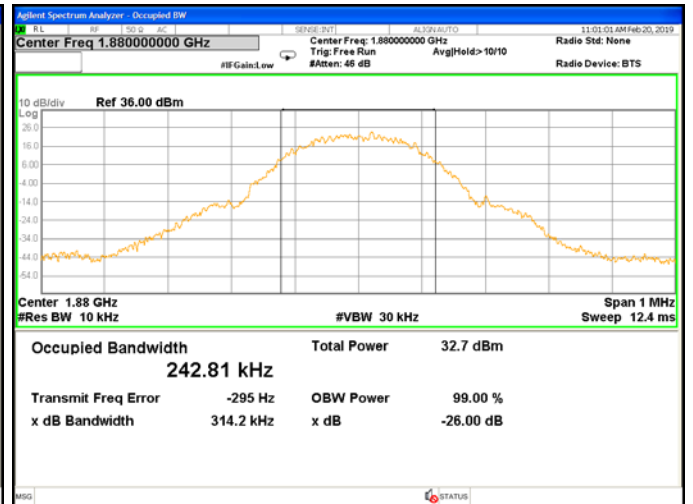
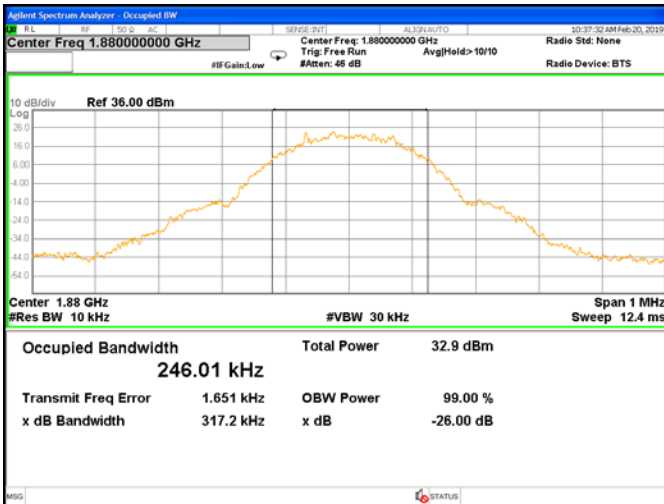
PCS 1900 CH 512

GPRS 1900 CH 512



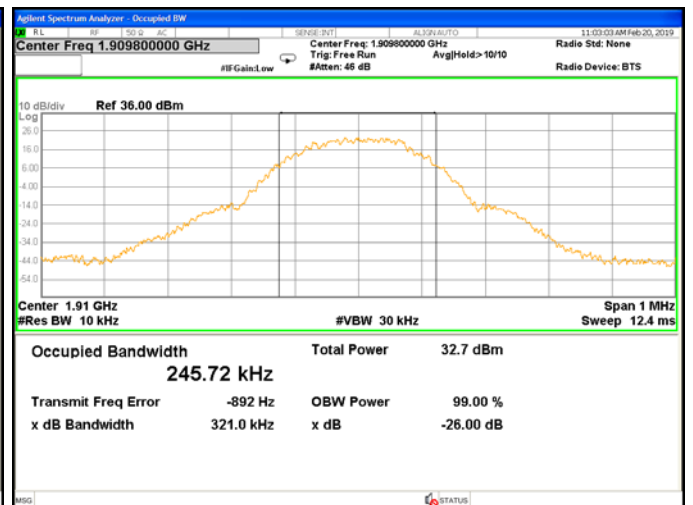
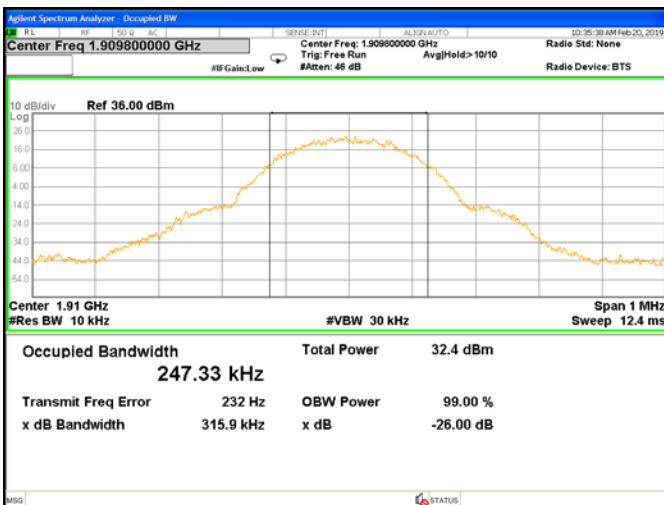
PCS 1900 CH 661

GPRS 1900 CH 661



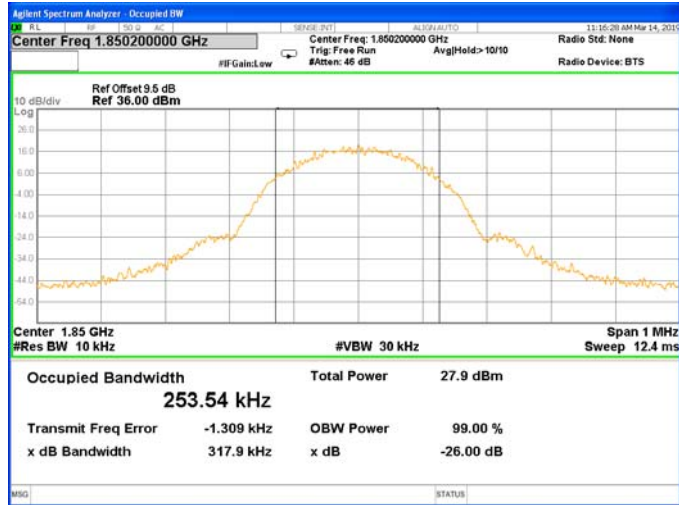
PCS 1900 CH 810

GPRS 1900 CH 810

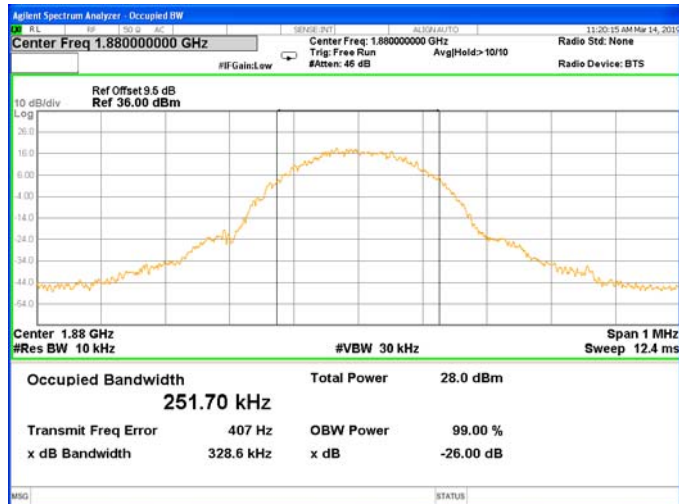




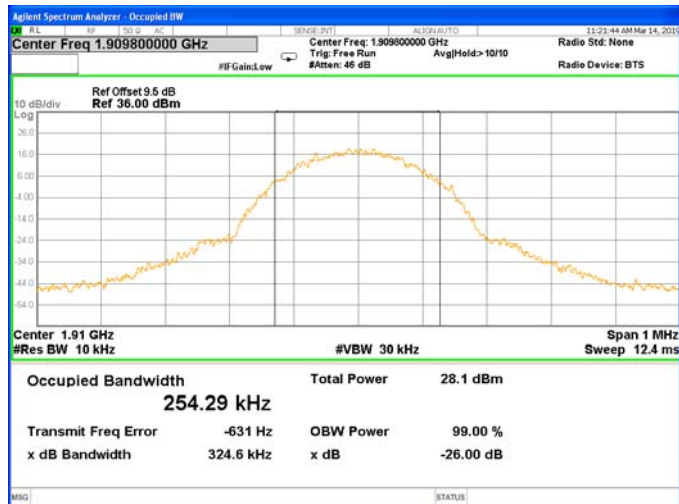
EDGE 1900 CH 512



EDGE 1900 CH 661

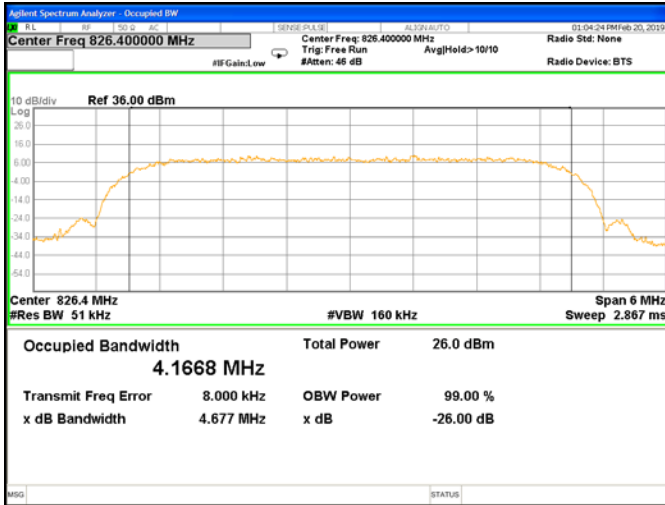


EDGE 1900 CH 810

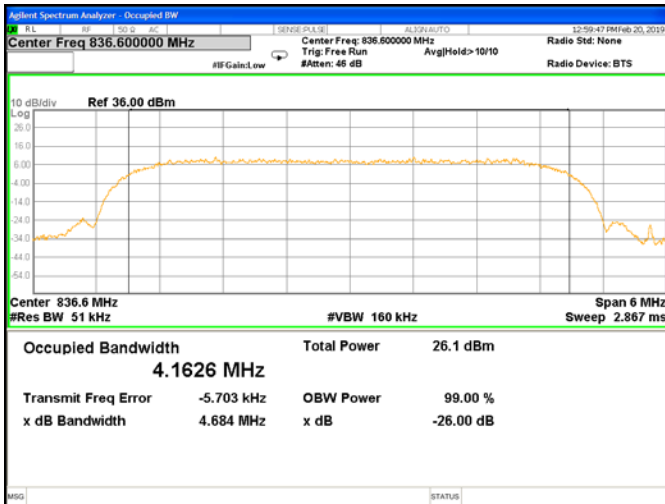




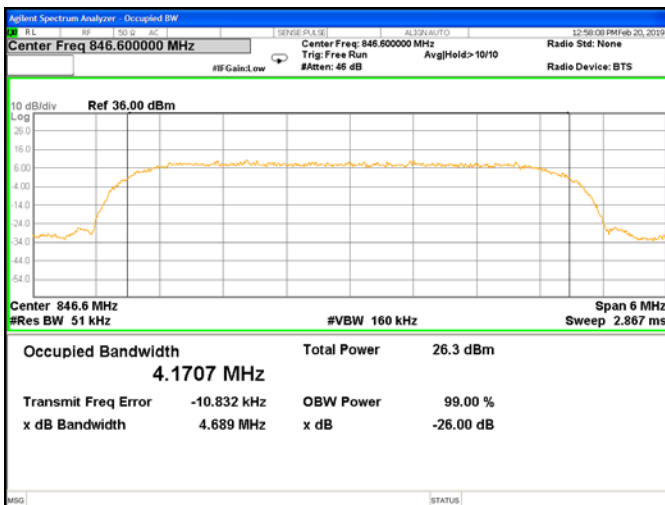
UMTS BAND V CH 4132



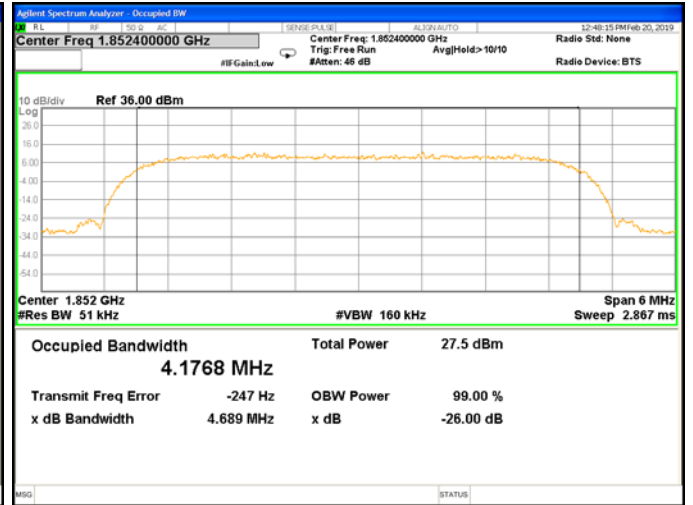
UMTS BAND V CH 4183



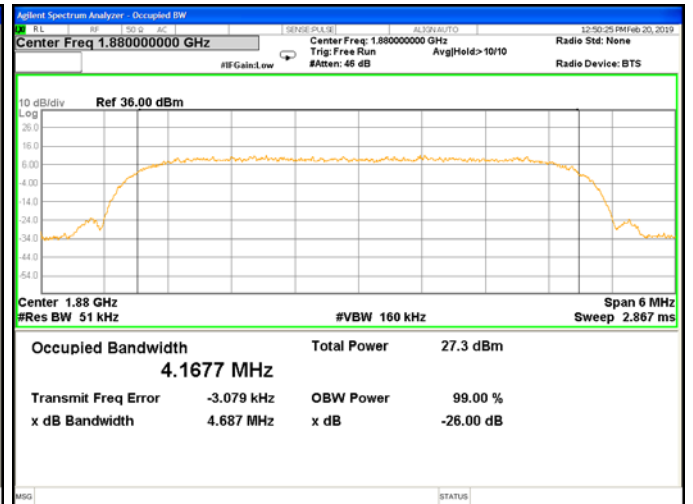
UMTS BAND V CH 4233



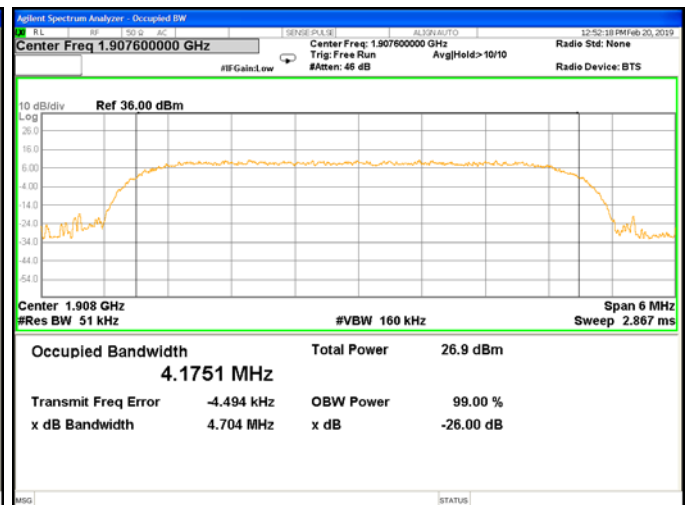
UMTS BAND II CH 9262



UMTS BAND II CH 9400



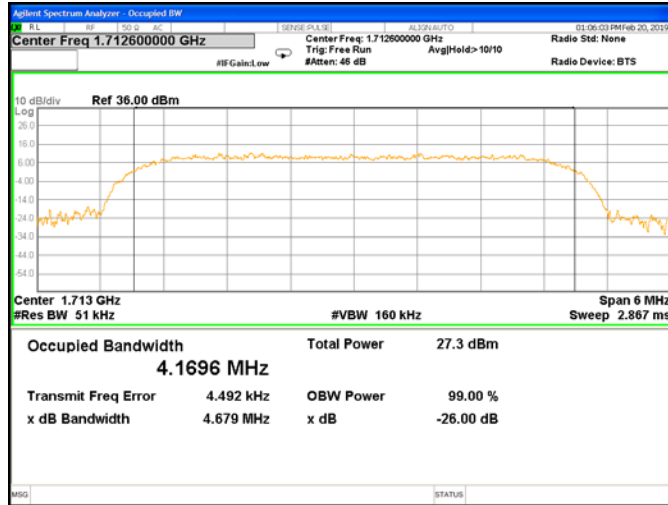
UMTS BAND II CH 9538



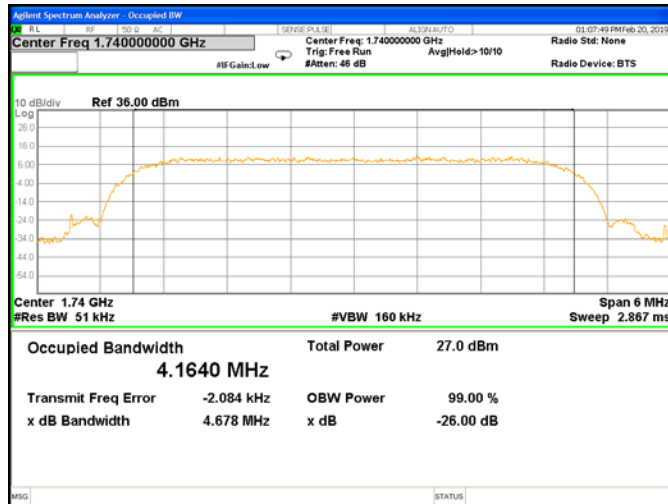




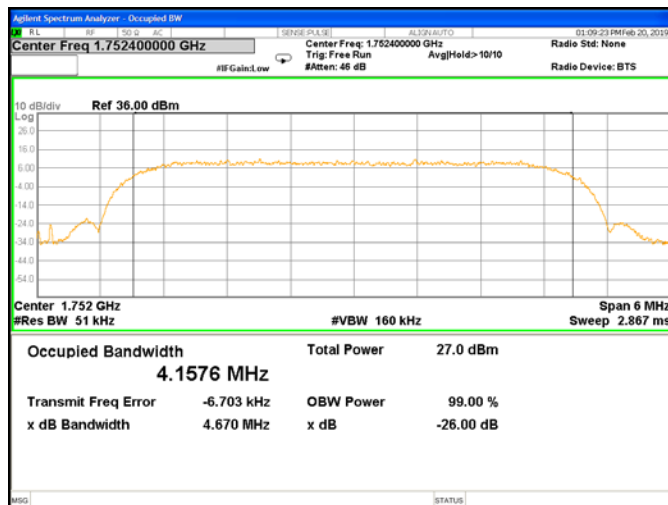
### UMTS BAND IV CH 9262



### UMTS BAND IV CH 9400



### UMTS BAND IV CH 9538





A5.FREQUENCY STABILITY

Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3V.; Maximum Voltage =4.35 V

GSM 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	11.90	0.014	2.5ppm	PASS
40		32.83	0.039		
30		12.77	0.015		
20		25.97	0.031		
10		20.07	0.024		
0		15.17	0.018		
-10		31.92	0.038		
-20		36.06	0.043		
-30		18.49	0.022		
25		Maximum Voltage	16.88		
25	BEP	15.02	0.018		

GPRS 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	28.17	0.034	2.5ppm	PASS
40		16.15	0.019		
30		14.44	0.017		
20		25.53	0.031		
10		14.17	0.017		
0		13.91	0.017		
-10		26.88	0.032		
-20		15.80	0.019		
-30		23.70	0.028		
25		Maximum Voltage	22.88		
25	BEP	34.21	0.041		



EDGE 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	23.62	0.028	2.5ppm	PASS
40		11.90	0.014		
30		27.57	0.033		
20		28.70	0.034		
10		12.29	0.015		
0		19.72	0.024		
-10		21.35	0.026		
-20		13.57	0.016		
-30		30.51	0.036		
25		Maximum Voltage	31.56		
25	BEP	26.69	0.032		



GSM 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	30.77	0.016	Within Authorized Band	PASS
40		23.84	0.013		
30		16.65	0.009		
20		17.53	0.009		
10		26.28	0.014		
0		29.28	0.016		
-10		18.93	0.010		
-20		15.21	0.008		
-30		17.09	0.009		
25		Maximum Voltage	25.04		
25	BEP	33.18	0.018		

GPRS 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	23.97	0.013	Within Authorized Band	PASS
40		36.11	0.019		
30		29.63	0.016		
20		22.72	0.012		
10		19.68	0.010		
0		35.86	0.019		
-10		11.86	0.006		
-20		16.71	0.009		
-30		20.04	0.011		
25		Maximum Voltage	11.83		
25	BEP	33.22	0.018		



EDGE 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	15.00	0.008	Within Authorized Band	PASS
40		21.78	0.012		
30		22.73	0.012		
20		12.39	0.007		
10		14.70	0.008		
0		19.17	0.010		
-10		20.51	0.011		
-20		30.07	0.016		
-30		20.55	0.011		
25		Maximum Voltage	21.60		
25	BEP	12.18	0.006		



WCDMA V Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	26.80	0.032	2.5ppm	PASS
40		30.06	0.036		
30		31.63	0.038		
20		36.33	0.043		
10		15.13	0.018		
0		18.29	0.022		
-10		18.28	0.022		
-20		31.64	0.038		
-30		36.29	0.043		
25		Maximum Voltage	27.77		
25	BEP	31.09	0.037		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

WCDMA II Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	16.06	0.009	Within Authorized Band	PASS
40		31.46	0.017		
30		29.69	0.016		
20		33.63	0.018		
10		17.61	0.009		
0		33.01	0.018		
-10		22.88	0.012		
-20		31.60	0.017		
-30		17.76	0.009		
25		Maximum Voltage	12.83		
25	BEP	14.89	0.008		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



WCDMA IV Middle Channel/1740MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	32.09	0.017	Within Authorized Band	PASS
40		14.20	0.008		
30		15.72	0.008		
20		18.62	0.010		
10		26.48	0.014		
0		30.43	0.016		
-10		15.52	0.008		
-20		28.20	0.015		
-30		19.78	0.011		
25		Maximum Voltage	18.97		
25	BEP	26.15	0.014		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



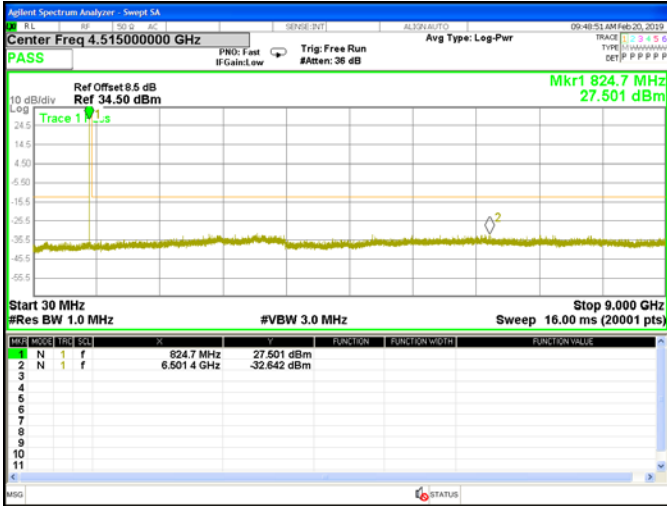
A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

GSM 850 BAND

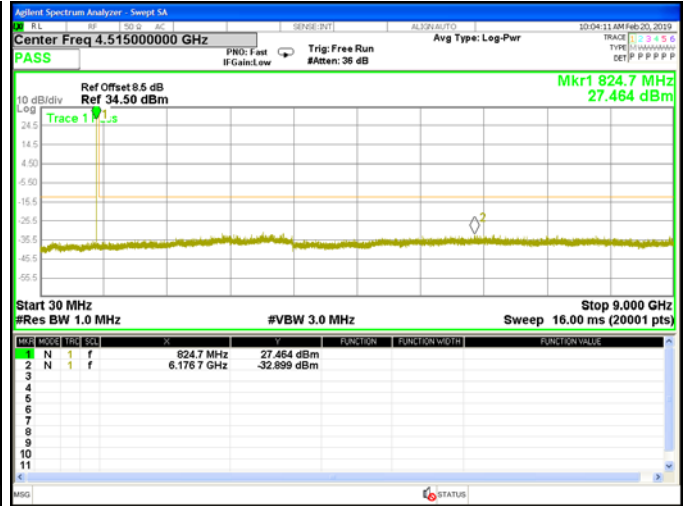
GPRS 850 BAND

Lowest Channel

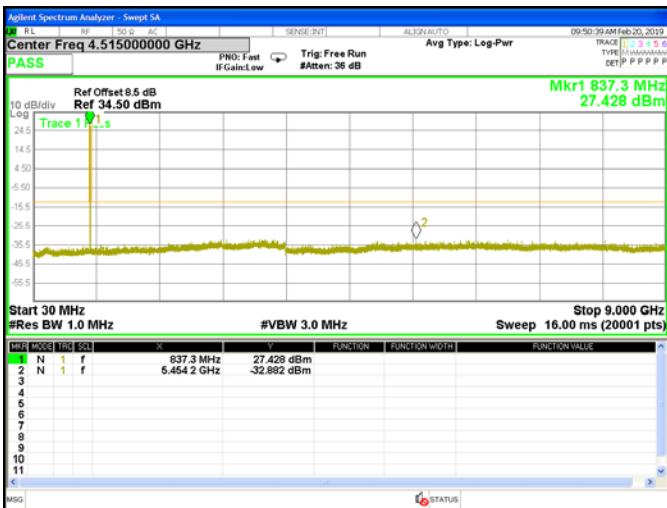
Lowest Channel



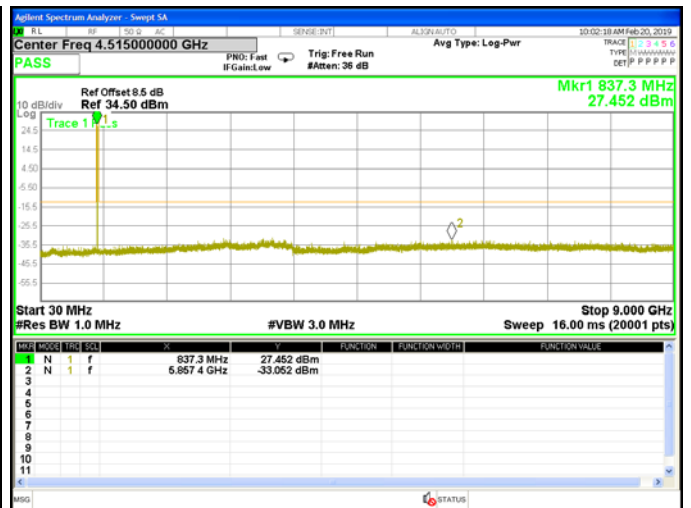
Middle Channel



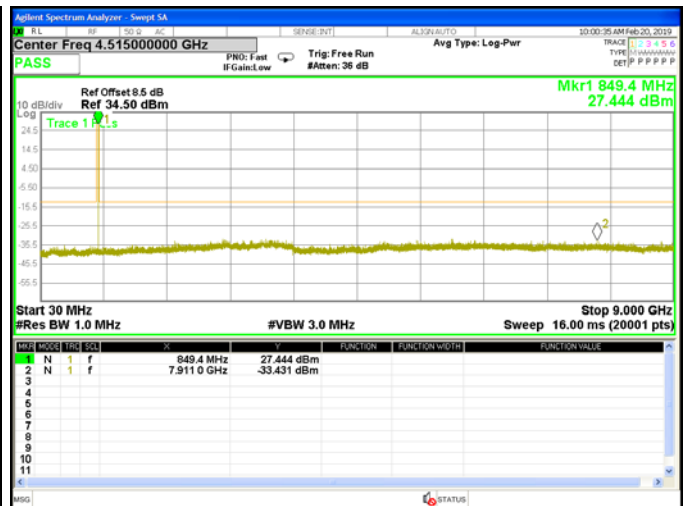
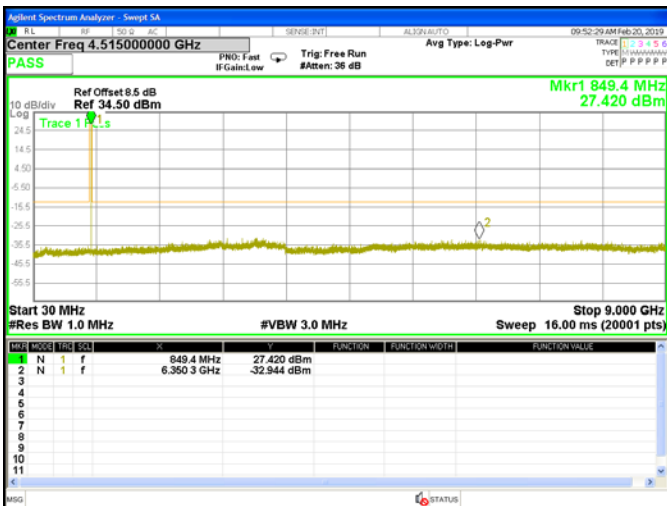
Middle Channel



Highest Channel



Highest Channel





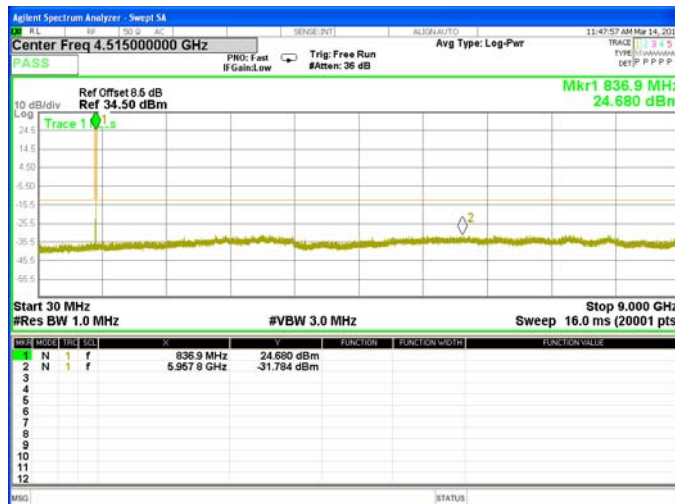


EDGE 850 BAND

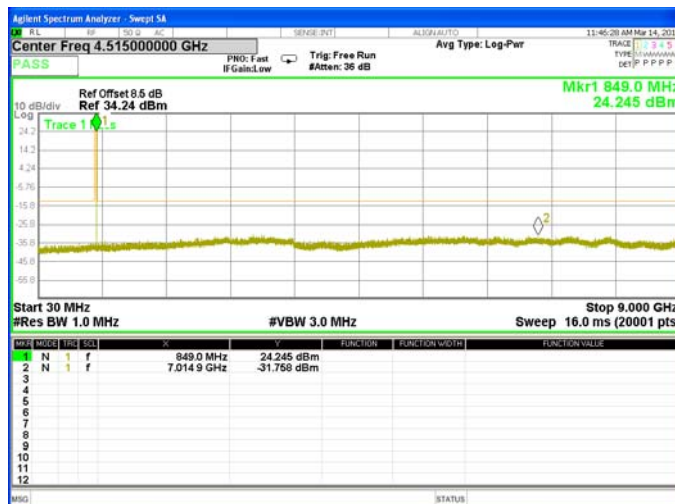
Lowest Channel



Middle Channel



Highest Channel



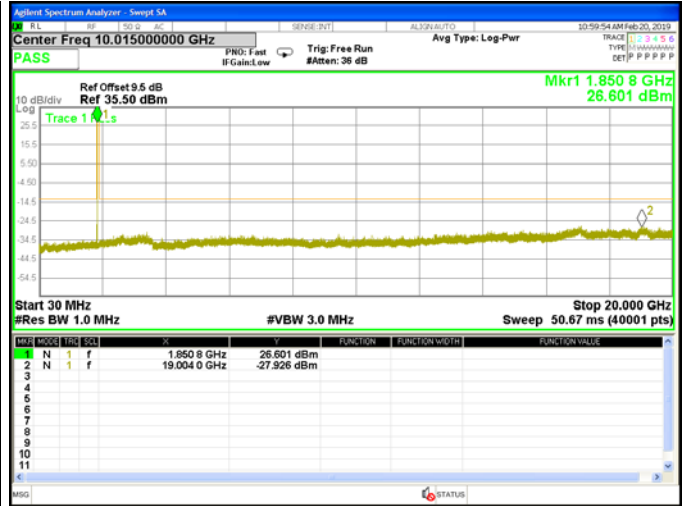
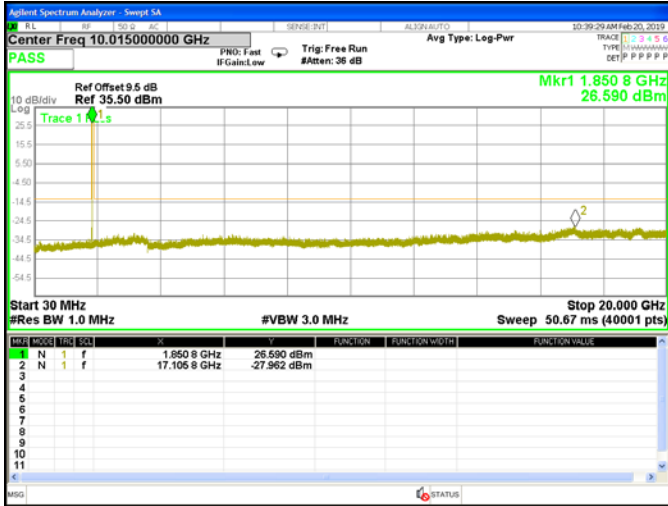


GSM1900 BAND(30M-20G)

GPRS1900 BAND(30M-20G)

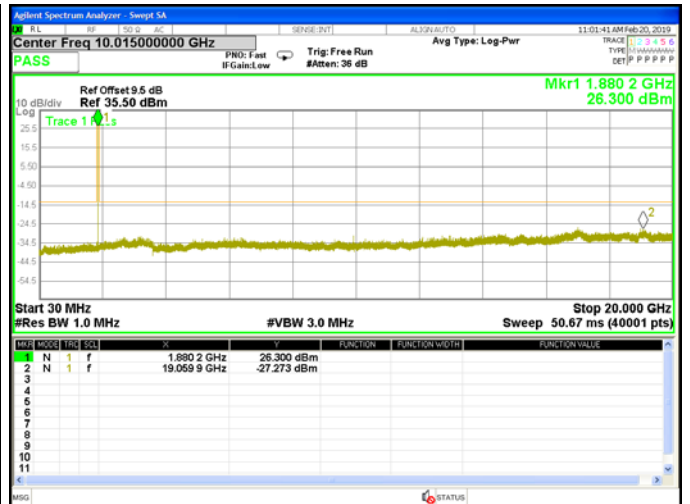
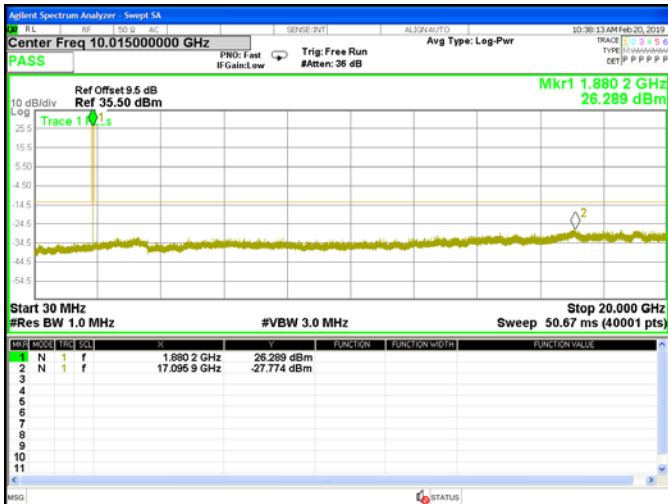
Lowest Channel

Lowest Channel



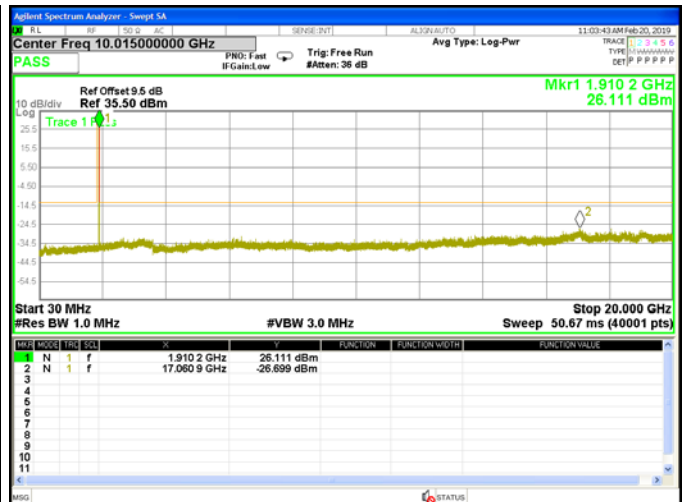
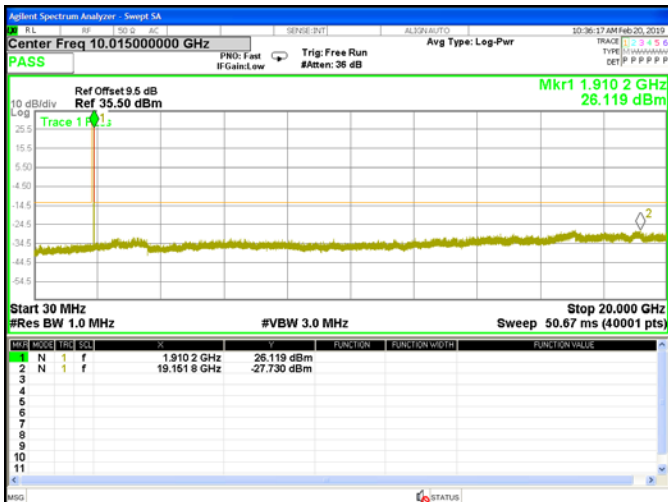
Middle Channel

Middle Channel



Highest Channel

Highest Channel



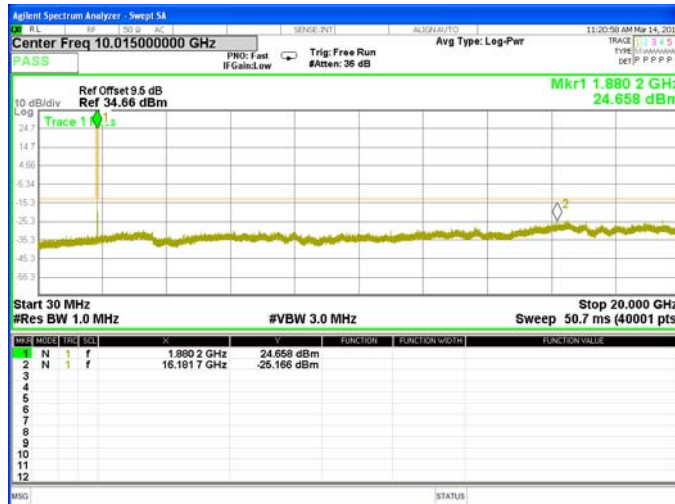


### EDGE 1900 BAND(30M-20G)

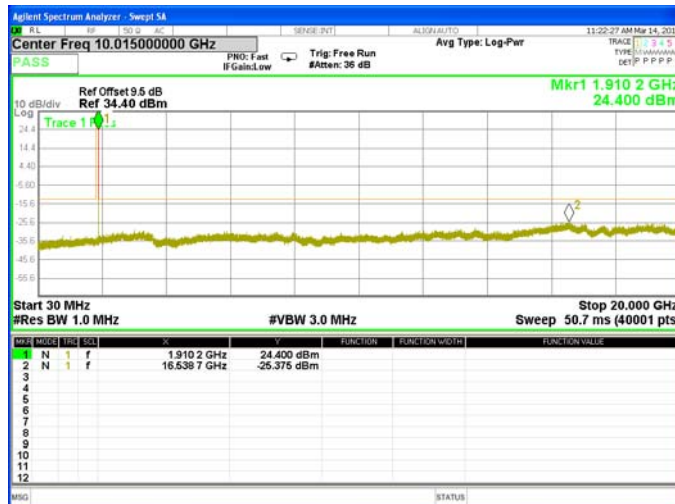
#### Lowest Channel



#### Middle Channel



#### Highest Channel



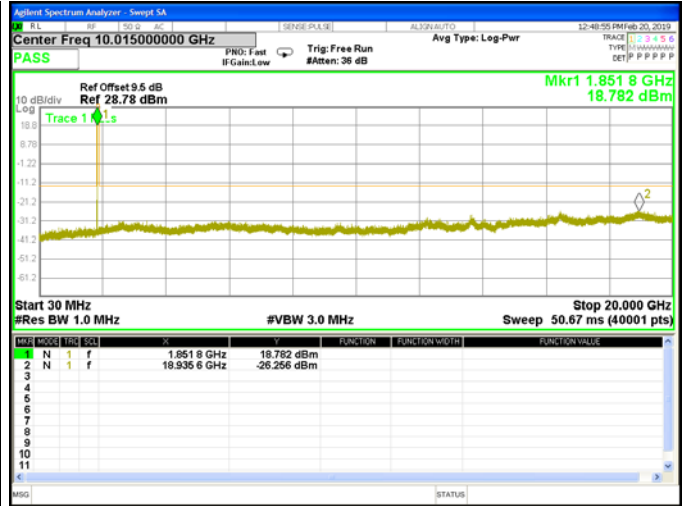


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)(30M-20G)

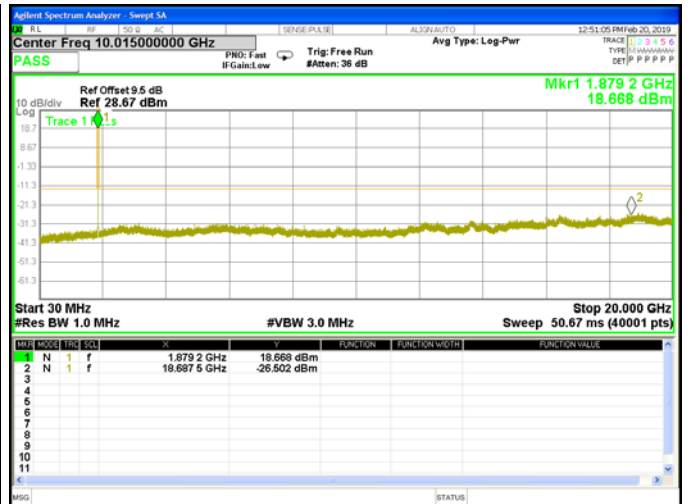
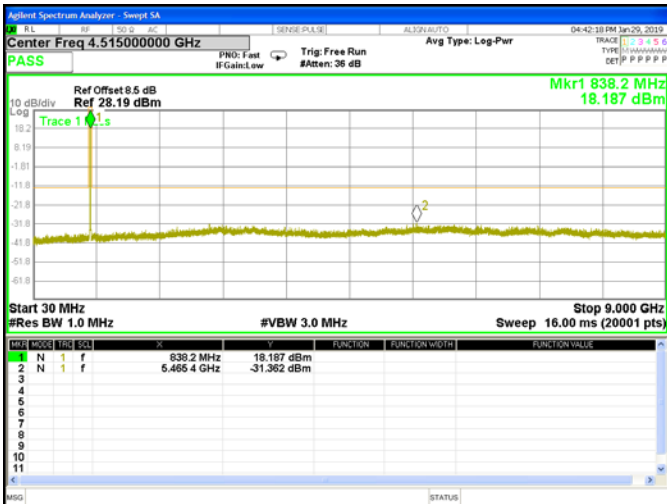
Lowest Channel

Lowest Channel



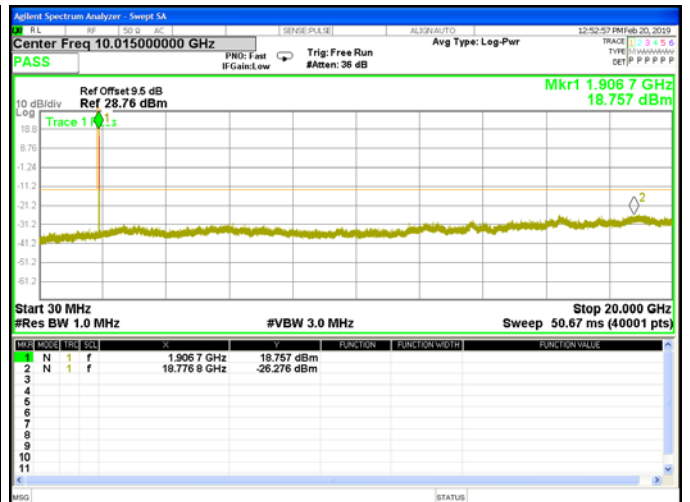
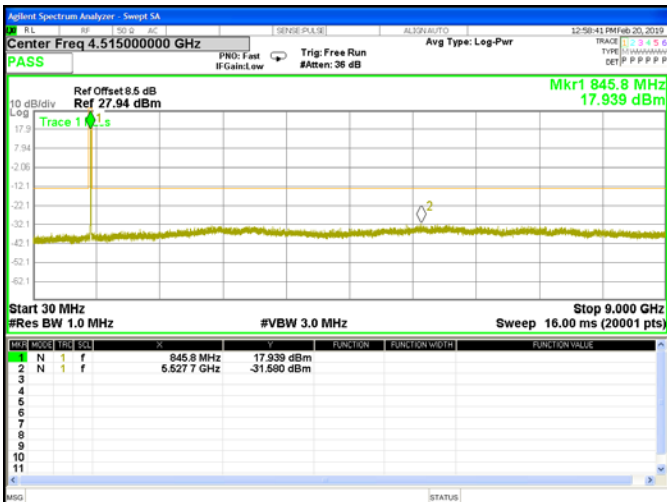
Middle Channel

Middle Channel



Highest Channel

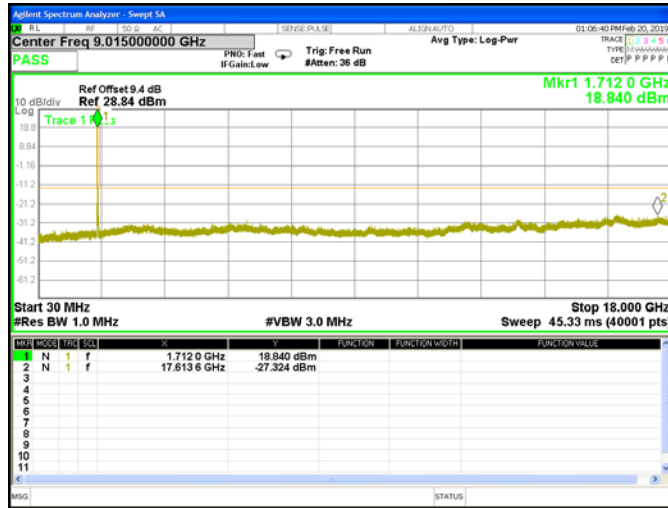
Highest Channel



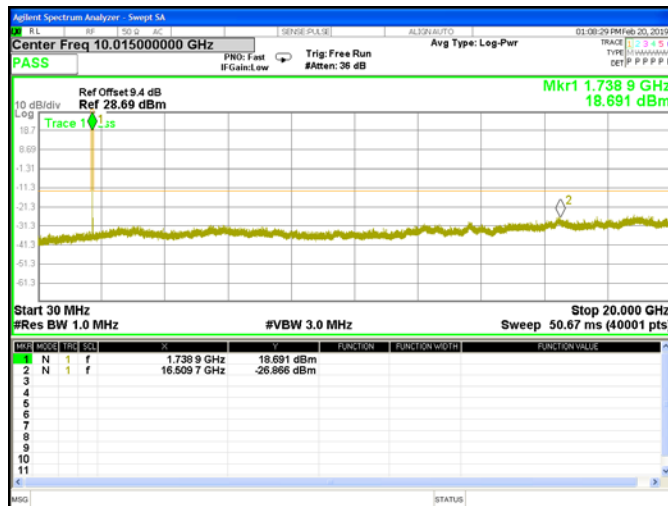


### WCDMA Band IV (RMC 12.2Kbps)(30M-20G)

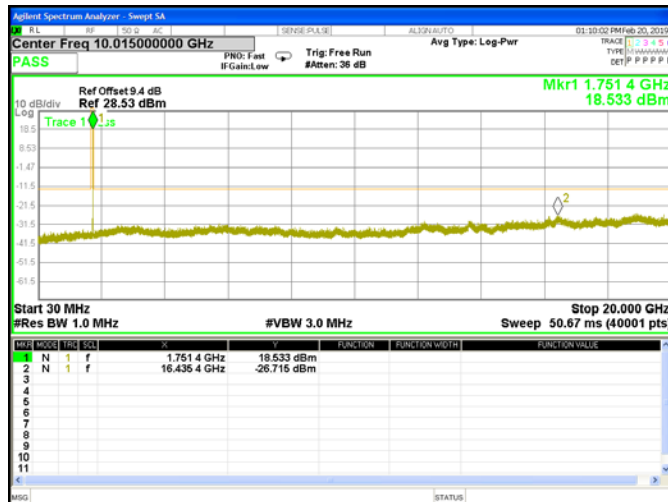
#### Lowest Channel



#### Middle Channel



#### Highest Channel





### A7. BAND EDGE

GSM 850

GPRS 850

Lowest Band Edge

Lowest Band Edge



Highest Band Edge

Highest Band Edge





EDGE 850

Lowest Band Edge



Highest Band Edge



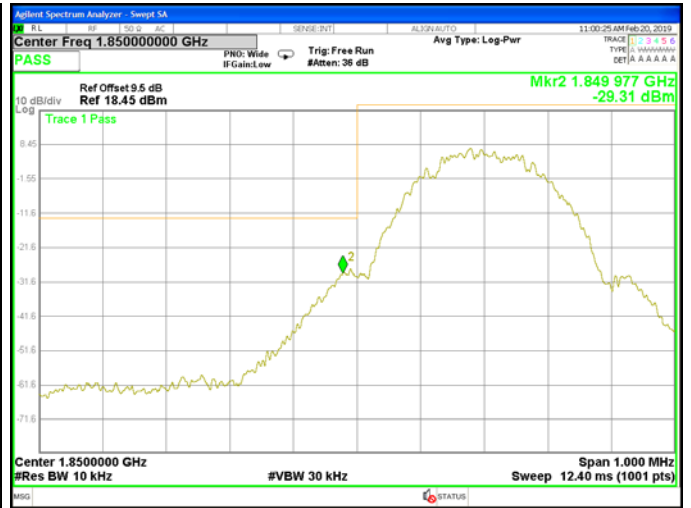
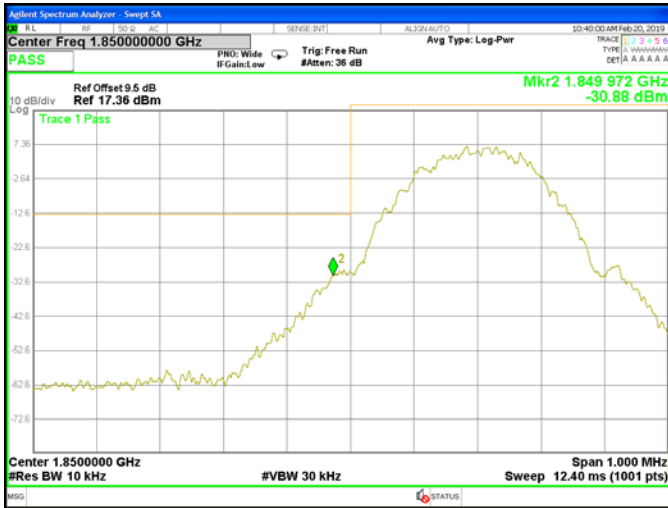


GSM 1900

GPRS 1900

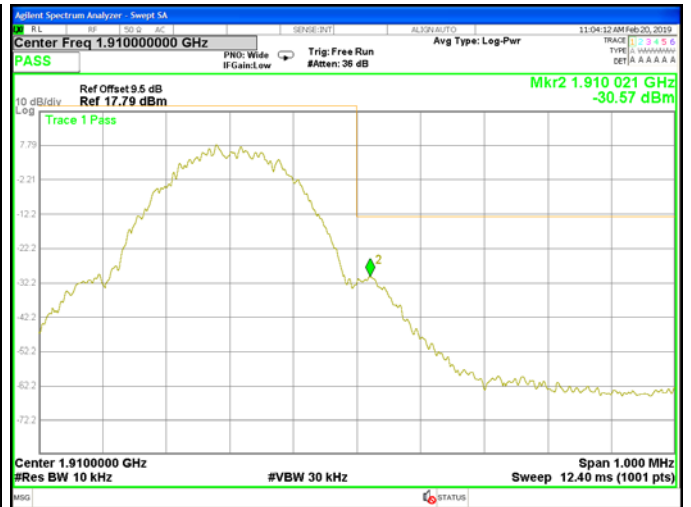
Lowest Band Edge

Lowest Band Edge



Highest Band Edge

Highest Band Edge







EDGE 1900

Lowest Band Edge



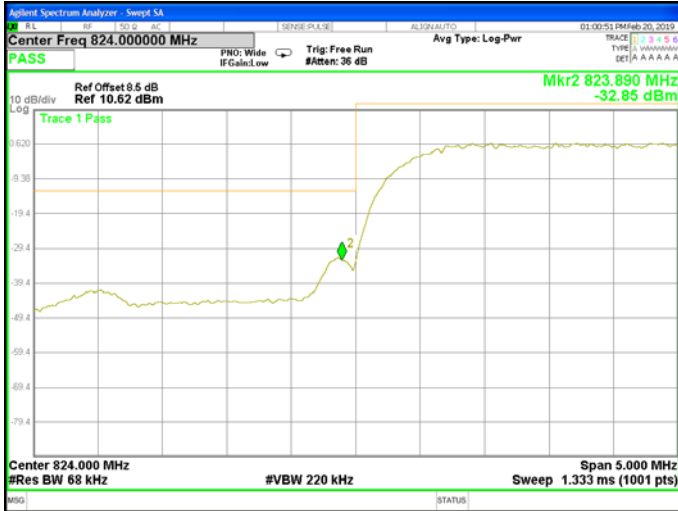
Highest Band Edge





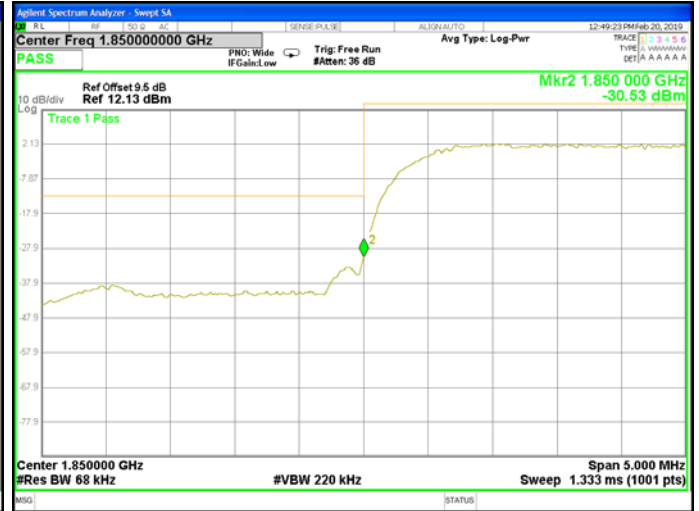
WCDMA Band VRMC 12.2Kbps

Lowest Band Edge



WCDMA Band IIRMC 12.2Kbps

Lowest Band Edge



Highest Band Edge



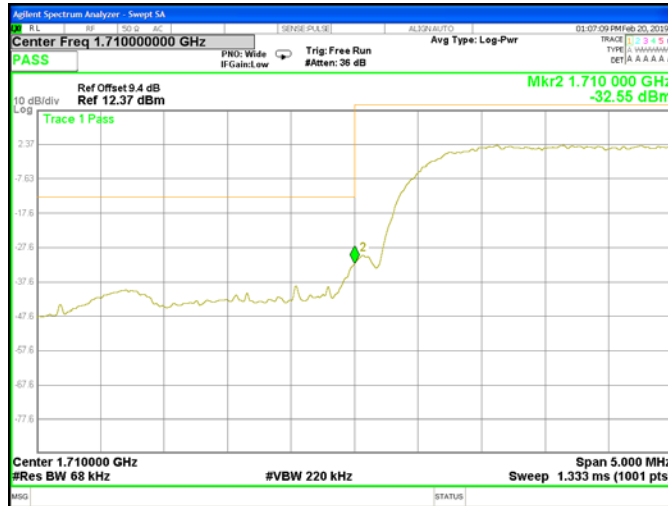
Highest Band Edge



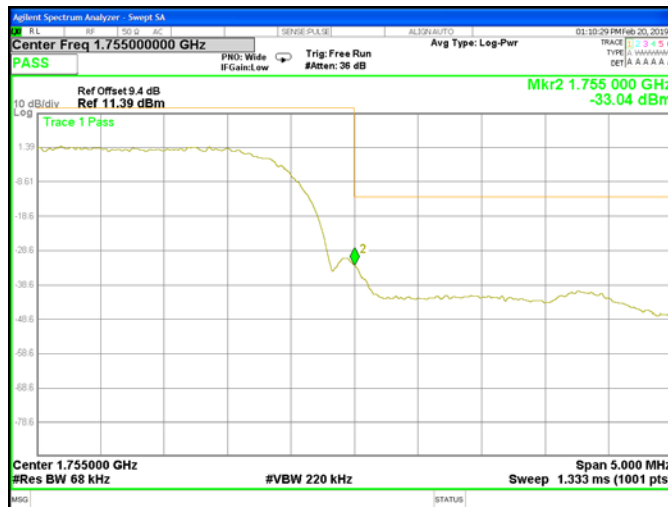


### WCDMA Band IVRMC 12.2Kbps

#### Lowest Band Edge



#### Highest Band Edge





A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

GSM 850: (30-9000)MHz

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1648.38	-41.04	9.40	4.75	-36.39	-13.00	-23.39	H
2472.46	-40.27	10.60	8.39	-38.06	-13.00	-25.06	H
3296.59	-31.16	12.00	11.79	-30.95	-13.00	-17.95	H
1648.47	-43.24	9.40	4.75	-38.59	-13.00	-25.59	V
2472.63	-44.97	10.60	8.39	-42.76	-13.00	-29.76	V
3296.65	-43.69	12.00	11.79	-43.48	-13.00	-30.48	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1673.14	-40.27	9.50	4.76	-35.53	-13.00	-22.53	H
2509.90	-39.36	10.70	8.40	-37.06	-13.00	-24.06	H
3346.34	-30.95	12.20	11.80	-30.55	-13.00	-17.55	H
1672.99	-43.83	9.40	4.75	-39.18	-13.00	-26.18	V
2509.63	-44.44	10.60	8.39	-42.23	-13.00	-29.23	V
3346.40	-42.92	12.20	11.82	-42.54	-13.00	-29.54	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1697.55	-40.20	9.60	4.77	-35.37	-13.00	-22.37	H
2546.54	-40.43	10.80	8.50	-38.13	-13.00	-25.13	H
3395.28	-30.92	12.50	11.90	-30.32	-13.00	-17.32	H
1697.42	-44.51	9.60	4.77	-39.68	-13.00	-26.68	V
2546.34	-44.91	10.80	8.50	-42.61	-13.00	-29.61	V
3394.95	-43.92	12.50	11.90	-43.32	-13.00	-30.32	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.



GPRS 850: (30-9000)MHz

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1648.16	-41.10	9.40	4.75	-36.45	-13.00	-23.45	H
2472.68	-39.27	10.60	8.39	-37.06	-13.00	-24.06	H
3296.68	-31.92	12.00	11.79	-31.71	-13.00	-18.71	H
1648.28	-44.42	9.40	4.75	-39.77	-13.00	-26.77	V
2472.67	-44.61	10.60	8.39	-42.40	-13.00	-29.40	V
3296.74	-42.76	12.00	11.79	-42.55	-13.00	-29.55	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1673.16	-40.89	9.50	4.76	-36.15	-13.00	-23.15	H
2509.43	-40.57	10.70	8.40	-38.27	-13.00	-25.27	H
3346.37	-32.18	12.20	11.80	-31.78	-13.00	-18.78	H
1673.09	-44.19	9.40	4.75	-39.54	-13.00	-26.54	V
2509.71	-45.31	10.60	8.39	-43.10	-13.00	-30.10	V
3345.95	-42.52	12.20	11.82	-42.14	-13.00	-29.14	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1697.19	-40.19	9.60	4.77	-35.36	-13.00	-22.36	H
2546.35	-39.52	10.80	8.50	-37.22	-13.00	-24.22	H
3395.24	-32.31	12.50	11.90	-31.71	-13.00	-18.71	H
1697.25	-43.36	9.60	4.77	-38.53	-13.00	-25.53	V
2546.54	-44.35	10.80	8.50	-42.05	-13.00	-29.05	V
3395.01	-43.22	12.50	11.90	-42.62	-13.00	-29.62	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



EDGE 850: (30-9000)MHz

EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1648.09	-40.13	9.40	4.75	-35.48	-13.00	-22.48	H
2472.64	-39.35	10.60	8.39	-37.14	-13.00	-24.14	H
3296.89	-32.04	12.00	11.79	<b>-31.83</b>	-13.00	-18.83	H
1648.05	-44.03	9.40	4.75	-39.38	-13.00	-26.38	V
2472.24	-44.65	10.60	8.39	-42.44	-13.00	-29.44	V
3296.59	-43.55	12.00	11.79	-43.34	-13.00	-30.34	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1672.86	-41.38	9.50	4.76	-36.64	-13.00	-23.64	H
2509.74	-39.77	10.70	8.40	-37.47	-13.00	-24.47	H
3346.03	-32.03	12.20	11.80	<b>-31.63</b>	-13.00	-18.63	H
1672.96	-44.01	9.40	4.75	-39.36	-13.00	-26.36	V
2509.68	-45.37	10.60	8.39	-43.16	-13.00	-30.16	V
3346.43	-43.31	12.20	11.82	-42.93	-13.00	-29.93	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1697.53	-40.60	9.60	4.77	-35.77	-13.00	-22.77	H
2546.53	-39.34	10.80	8.50	-37.04	-13.00	-24.04	H
3395.24	-32.09	12.50	11.90	<b>-31.49</b>	-13.00	-18.49	H
1697.19	-44.61	9.60	4.77	-39.78	-13.00	-26.78	V
2546.44	-43.96	10.80	8.50	-41.66	-13.00	-28.66	V
3394.88	-42.65	12.50	11.90	-42.05	-13.00	-29.05	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



PCS 1900: (30-20000)MHz

DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3700.42	-33.75	12.60	12.93	-34.08	-13.00	-21.08	H
5550.41	-35.23	13.10	17.11	-39.24	-13.00	-26.24	H
7400.94	-32.56	11.50	22.20	-43.26	-13.00	-30.26	H
3700.51	-34.91	12.60	12.93	-35.24	-13.00	-22.24	V
5550.39	-34.66	13.10	17.11	-38.67	-13.00	-25.67	V
7400.67	-32.80	11.50	22.20	-43.50	-13.00	-30.50	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3759.77	-34.39	12.60	12.93	-34.72	-13.00	-21.72	H
5640.20	-35.09	13.10	17.11	-39.10	-13.00	-26.10	H
7520.20	-32.55	11.50	22.20	-43.25	-13.00	-30.25	H
3760.12	-35.45	12.60	12.93	-35.78	-13.00	-22.78	V
5640.05	-33.91	13.10	17.11	-37.92	-13.00	-24.92	V
7520.06	-32.53	11.50	22.20	-43.23	-13.00	-30.23	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3819.27	-34.57	12.60	12.93	-34.90	-13.00	-21.90	H
5729.21	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7639.11	-32.65	11.50	22.20	-43.35	-13.00	-30.35	H
3819.67	-34.89	12.60	12.93	-35.22	-13.00	-22.22	V
5729.45	-35.19	13.10	17.11	-39.20	-13.00	-26.20	V
7639.12	-33.02	11.50	22.20	-43.72	-13.00	-30.72	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



GPRS 1900: (30-20000)MHz

GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3700.48	-34.67	12.60	12.93	-35.00	-13.00	-22.00	H
5550.31	-34.44	13.10	17.11	-38.45	-13.00	-25.45	H
7400.50	-33.46	11.50	22.20	-44.16	-13.00	-31.16	H
3700.51	-35.41	12.60	12.93	-35.74	-13.00	-22.74	V
5550.57	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7400.86	-32.04	11.50	22.20	-42.74	-13.00	-29.74	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3759.90	-34.74	12.60	12.93	-35.07	-13.00	-22.07	H
5640.23	-34.25	13.10	17.11	-38.26	-13.00	-25.26	H
7520.00	-33.50	11.50	22.20	-44.20	-13.00	-31.20	H
3760.30	-34.63	12.60	12.93	-34.96	-13.00	-21.96	V
5639.85	-33.78	13.10	17.11	-37.79	-13.00	-24.79	V
7520.12	-32.99	11.50	22.20	-43.69	-13.00	-30.69	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3819.50	-34.11	12.60	12.93	-34.44	-13.00	-21.44	H
5729.02	-34.84	13.10	17.11	-38.85	-13.00	-25.85	H
7639.24	-33.17	11.50	22.20	-43.87	-13.00	-30.87	H
3819.43	-35.32	12.60	12.93	-35.65	-13.00	-22.65	V
5729.30	-34.23	13.10	17.11	-38.24	-13.00	-25.24	V
7639.39	-32.02	11.50	22.20	-42.72	-13.00	-29.72	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.





EDGE 1900: (30-20000)MHz

EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3700.06	-34.57	12.60	12.93	-34.90	-13.00	-21.90	H
5550.59	-34.90	13.10	17.11	-38.91	-13.00	-25.91	H
7400.57	-32.41	11.50	22.20	-43.11	-13.00	-30.11	H
3700.51	-34.80	12.60	12.93	-35.13	-13.00	-22.13	V
5550.37	-34.44	13.10	17.11	-38.45	-13.00	-25.45	V
7400.59	-32.41	11.50	22.20	-43.11	-13.00	-30.11	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3760.21	-33.78	12.60	12.93	-34.11	-13.00	-21.11	H
5640.24	-34.01	13.10	17.11	-38.02	-13.00	-25.02	H
7519.90	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3760.23	-34.78	12.60	12.93	-35.11	-13.00	-22.11	V
5640.10	-34.19	13.10	17.11	-38.20	-13.00	-25.20	V
7520.03	-32.75	11.50	22.20	-43.45	-13.00	-30.45	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3819.51	-34.72	12.60	12.93	-35.05	-13.00	-22.05	H
5729.47	-34.12	13.10	17.11	-38.13	-13.00	-25.13	H
7639.14	-32.58	11.50	22.20	-43.28	-13.00	-30.28	H
3819.59	-35.16	12.60	12.93	-35.49	-13.00	-22.49	V
5729.28	-34.00	13.10	17.11	-38.01	-13.00	-25.01	V
7639.30	-31.89	11.50	22.20	-42.59	-13.00	-29.59	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



UMTS band V(30-9000)MHz

WCDMA Band V: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1652.37	-41.39	9.40	4.75	-36.74	-13.00	-23.74	H
2479.45	-39.48	10.60	8.39	-37.27	-13.00	-24.27	H
3305.70	-31.11	12.00	11.79	-30.90	-13.00	-17.90	H
1652.35	-44.10	9.40	4.75	-39.45	-13.00	-26.45	V
2479.53	-44.36	10.60	8.39	-42.15	-13.00	-29.15	V
3305.86	-42.77	12.00	11.79	-42.56	-13.00	-29.56	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1672.88	-40.15	9.50	4.76	-35.41	-13.00	-22.41	H
2509.46	-40.56	10.70	8.40	-38.26	-13.00	-25.26	H
3346.35	-31.95	12.20	11.80	-31.55	-13.00	-18.55	H
1673.18	-43.20	9.40	4.75	-38.55	-13.00	-25.55	V
2509.82	-44.58	10.60	8.39	-42.37	-13.00	-29.37	V
3346.23	-43.52	12.20	11.82	-43.14	-13.00	-30.14	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
1693.19	-41.14	9.60	4.77	-36.31	-13.00	-23.31	H
2539.09	-39.48	10.80	8.50	-37.18	-13.00	-24.18	H
3386.00	-30.98	12.50	11.90	-30.38	-13.00	-17.38	H
1693.35	-44.29	9.60	4.77	-39.46	-13.00	-26.46	V
2539.21	-44.70	10.80	8.50	-42.40	-13.00	-29.40	V
3385.97	-43.03	12.50	11.90	-42.43	-13.00	-29.43	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 3GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



UMTS band II(30-20000)MHz

WCDMA Band II: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3704.40	-34.81	12.60	12.93	-35.14	-13.00	-22.14	H
5557.64	-34.33	13.10	17.11	-38.34	-13.00	-25.34	H
7409.80	-33.44	11.50	22.20	-44.14	-13.00	-31.14	H
3704.17	-35.50	12.60	12.93	-35.83	-13.00	-22.83	V
5557.48	-34.46	13.10	17.11	-38.47	-13.00	-25.47	V
7409.74	-32.15	11.50	22.20	-42.85	-13.00	-29.85	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3760.19	-33.70	12.60	12.93	-34.03	-13.00	-21.03	H
5640.01	-35.11	13.10	17.11	-39.12	-13.00	-26.12	H
7520.01	-32.86	11.50	22.20	-43.56	-13.00	-30.56	H
3760.15	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5640.18	-34.79	13.10	17.11	-38.80	-13.00	-25.80	V
7520.13	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3815.37	-33.72	12.60	12.93	-34.05	-13.00	-21.05	H
5722.09	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7629.95	-32.47	11.50	22.20	-43.17	-13.00	-30.17	H
3815.54	-35.45	12.60	12.93	-35.78	-13.00	-22.78	V
5722.18	-34.04	13.10	17.11	-38.05	-13.00	-25.05	V
7630.14	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



UMTS band IV(30-20000)MHz

WCDMA Band IV: (30-20000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3425.06	-33.96	12.90	12.05	-33.11	-13.00	-20.11	H
5137.47	-35.00	12.80	16.27	-38.47	-13.00	-25.47	H
6850.13	-33.56	12.30	20.13	-41.39	-13.00	-28.39	H
3425.14	-34.53	12.90	12.05	-33.68	-13.00	-20.68	V
5137.30	-34.08	12.80	16.27	-37.55	-13.00	-24.55	V
6850.13	-32.36	12.30	20.13	-40.19	-13.00	-27.19	V
The Worst Test Results for Channel 1350/1740MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3479.96	-34.19	12.90	12.05	-33.34	-13.00	-20.34	H
5219.72	-35.35	12.80	16.27	-38.82	-13.00	-25.82	H
6959.53	-32.34	12.30	20.13	-40.17	-13.00	-27.17	H
3479.82	-35.16	12.90	12.05	-34.31	-13.00	-21.31	V
5219.72	-34.34	12.80	16.27	-37.81	-13.00	-24.81	V
6959.53	-31.85	12.30	20.13	-39.68	-13.00	-26.68	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dB)	
3504.47	-33.69	12.90	12.05	-32.84	-13.00	-19.84	H
5257.17	-34.62	12.80	16.27	-38.09	-13.00	-25.09	H
7009.53	-33.13	12.30	20.13	-40.96	-13.00	-27.96	H
3504.55	-34.99	12.90	12.05	-34.14	-13.00	-21.14	V
5257.15	-34.39	12.80	16.27	-37.86	-13.00	-24.86	V
7009.24	-31.79	12.30	20.13	-39.62	-13.00	-26.62	V

- Note:** (1) Below 30MHz no Spurious found is the worst condition.  
 (2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value  
 (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.



#### APPENDIX B PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*