

TEST REPORT

No. I16Z40225-GTE02

for

TCL Communication Ltd.

LTE/UMTS/GSM handheld station with Bluetooth technology, WiFi

and FM radio

Model Name: 5095B

FCC ID: 2ACCJH042

with

Hardware Version: PIO

Software Version: v1K14

Issued Date: 2016-04-18

Note:

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

Test Laboratory:

FCC 2.948 Listed: No. 525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@catr.cn, website: www.chinattl.com



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I16Z40225-GTE02	Rev.0	1 st edition	2016-03-28
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I16Z40225-GTE02	Rev.2	3rd edition	2016-04-18



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1. Test Laboratory

1.1. Testing Location

Company Name: CTTL, Telecommunication Technology Labs, Academy of

Telecommunication Research, MIIT

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China

Postal Code: 100191

Telephone: 00861062304633 Fax: 00861062304793

1.2. <u>Testing Environment</u>

Normal Temperature: 15-35°C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2016-03-21
Testing End Date: 2016-04-18

1.4. Signature

Shen Yi

(Prepared this test report)

Zhong Nan

(Reviewed this test report)

Sun Xiang Qian

Deputy Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China. 201203

Contact Person: Gong Zhizhou

 Contact Email
 zhizhou.gong@tcl.com

 Telephone:
 0086-21-51798260

 Fax:
 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China. 201203

Contact Person: Gong Zhizhou

Contact Email zhizhou.gong@tcl.com
Telephone: 0086-21-51798260
Fax: 0086-21-61460602



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

3.1. About EUT

Description LTE/UMTS/GSM handheld station with Bluetooth technology, WiFi

and FM radio

Model Name 5095B

FCC ID 2ACCJH042 Antenna Integrated

Output power 23.69dBm maximum EIRP measured for Band II

Extreme vol. Limits 3.5VDC to 4.2VDC (nominal: 3.7VDC)

Extreme temp. Tolerance -30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT44a	014615000100080	PIO	v1K14
UT40a	014615000100098	PIO	v1K14

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID* Description
AE1 Battery
AE2 Battery

AE3 Travel charger
AE4 Travel charger

AE1

Model CAC2960001C1

Manufacturer BYD
Capacitance 2960mAh
Nominal voltage 3.84V

AE2

Model CAC2960003C2

Manufacturer SCUD
Capacitance 2960mAh
Nominal voltage 3.84V

AE3

Model CBA0061AG0C1

Manufacturer BYD



AE4

Model CBA0061AG0C2

Manufacturer Tenpao

3.4. General Description

The Equipment Under Test (EUT) is a model of LTE/UMTS/GSM handheld station with Bluetooth technology, WiFi and FM radio with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

^{*}AE ID: is used to identify the test sample in the lab internally.



4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-15
		Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-15
		Edition
ANSI/TIA-603-D	Land Mobile FM or PM Communications Equipment	2015
	Measurement and Performance Standards	
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from	2014
	Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	
KDB 971168	Measurement Guidance for Certification of Licensed Digital	v02r02
	Transmitters	



5. LABORATORY ENVIRONMENT

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters × 6.1 meters × 3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	<1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters × 6.7 meters × 6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz



6. SUMMARY OF TEST RESULTS

WCDMA Band II

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232(c)	Р
2	Emission Limit	24.238, 2.1051	Р
3	Frequency Stability	24.235, 2.1055	Р
4	Occupied Bandwidth	2.1049(h)(i)	Р
5	Emission Bandwidth	24.238(b)	Р
6	Band Edge Compliance	24.238(b)	Р
7	Conducted Spurious Emission	24.238, 2.1057	Р
8	Peak-to-Average Power Ratio	24.232(d)	Р

WCDMA Band V

Items	ems Test Name Clause in FCC rules		Verdict
1	Output Power	§2.1046(a),	Р
Į.	Output Power	22.913(a)	
2	Emission Limit	22.917, 2.1051	Р
3	Frequency Stability	22.235, 2.1055	Р
4	Occupied Bandwidth	2.1049(h)(i)	Р
5	Emission Bandwidth	22.917(b)	Р
6	Band Edge Compliance	22.917(b)	Р
7	Conducted Spurious Emission	22.917, 2.1057	Р



7. Test Equipments Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE	Calibration interval
1	Test Receiver	ESU26	100235	R&S	2017-03-02	1 year
2	Test Receiver	ESU26	100376	R&S	2016-10-29	1 year
3	EMI Antenna	VULB 9163	302	Schwarzbeck	2017-01-03	3 year
4	EMI Antenna	3117	00119024	ETS-Lindgren	2017-01-20	3 year
5	LISN	ENV216	101200	R&S	2016-07-07	1 year
6	Universal Radio Communication Tester	CMU200	108646	R&S	2016-10-27	1 year
7	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2016-07-06	1 year
8	Spectrum Analyzer	E4440A	MY48250642	Agilent	2017-03-02	1 year
9	EMI Antenna	9117	177	Schwarzbeck	2017-06-25	3 year
10	EMI Antenna	VULB9163	9163-234	Schwarzbeck	2016-09-15	3 year
11	Signal Generator	N5183A	MY49060052	Agilent	2017-03-07	1 year
12	Climate chamber	SH-241	92007454	ESPEC	2017-12-14	2 year
13	Loop Antenna	HFH2-Z2	829324/007	R&S	2017-12-10	3 year



ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation.

This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies, 1852.4 MHz, 1880.0MHz and 1907.6MHz for WCDMA Band II;826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band V (bottom, middle and top of operational frequency range).

Limit

According to FCC§2.1046.

WCDMA Band II

Measurement result-QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA	9262	1852.4	24.27
(Band II)	9400	1880.0	24.56
	9538	1907.6	24.83

Measurement result-16QAM

	CH	Frequency(MHz)	output power(dBm)
WCDMA	9262	1852.4	21.96
(Band II)	9400	1880.0	22.34
	9538	1907.6	22.60

WCDMA Band V

Measurement result-QPSK

	СН	Frequency(MHz)	output power(dBm)
WCDMA	4132	826.4	23.21
(Band V)	4183	836.6	23.10
	4233	846.6	23.27

Measurement result-16QAM

	CH	Frequency(MHz)	output power(dBm)
WCDMA	4132	826.4	21.14
(Band II)	4183	836.6	21.06
	4233	846.6	21.23



A.1.3 Radiated

A.1.3.1 Description

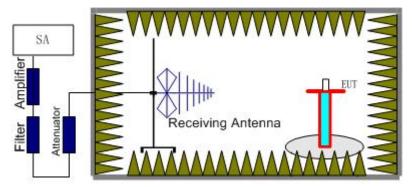
This is the test for the maximum radiated power from the EUT.

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

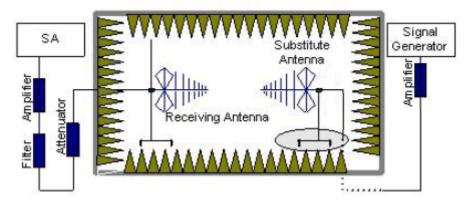
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603D-2015 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere



with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.
 - The cable loss (P_{cl}) , the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= $P_{Mea} P_{Ag} P_{cl} G_a$
- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



WCDMA Band II-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band II	≤33dBm (2W)

Measurement result-QPSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.40	-22.49	2.84	-43.75	-4.87	23.29	33.00	9.71	Н
1880.00	-22.03	2.85	-43.75	-4.82	23.69	33.00	9.31	Н
1907.60	-24.17	2.88	-43.77	-4.77	21.49	33.00	11.51	Н

Measurement result-16QAM

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1852.40	-22.50	2.84	-43.75	-4.87	23.28	33.00	9.72	Н
1880.00	-22.10	2.85	-43.75	-4.82	23.62	33.00	9.38	Н
1907.60	-24.20	2.88	-43.77	-4.77	21.46	33.00	11.54	Н

Frequency: 1880.00MHz

 $Peak \; EIRP(dBm) = P_{Mea}(-22.03) - \; P_{cl}(2.85dB) - \; P_{Ag}(-43.75dB) - G_a(-4.82dB) \; = 23.69dBm$

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band V-ERP

Limits

	Burst Peak ERP (dBm)
WCDMA Band V	≤38.45dBm

Measurement result

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
826.40	-19.65	2.25	-45.76	-0.93	2.15	22.64	38.45	15.81	Н
836.60	-20.16	2.26	-45.66	-0.82	2.15	21.91	38.45	16.54	Н
846.60	-21.48	2.26	-45.56	-0.81	2.15	20.48	38.45	17.97	Н

Measurement result-16QAM

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
826.40	-19.62	2.25	-45.76	-0.93	2.15	22.67	38.45	15.78	Н
836.60	-20.15	2.26	-45.66	-0.82	2.15	21.92	38.45	16.53	Н
846.60	-21.51	2.26	-45.56	-0.81	2.15	20.45	38.45	18.00	Н

Frequency: 826.40MHz

 $Peak \; ERP(dBm) = P_{Mea}(-19.62dBm) - \; P_{cl}(2.25dB) - \; P_{Ag}(-45.76dB) - G_a \; (-0.93dB) - 2.15dB = 22.67dBm$

ANALYZER SETTINGS: RBW = VBW = 5MHz

Note: The EUT is tested in vertical polarization mode



A.2 EMISSION LIMIT

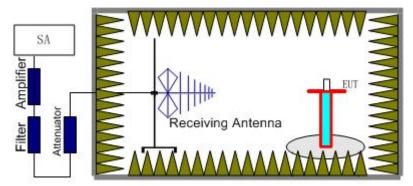
A.2.1 Measurement Method

The measurement procedures in TIA-603D-2015 are used.

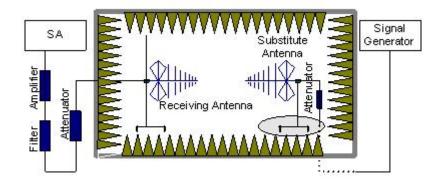
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band V.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the



substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Ppl) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

Power(EIRP)=P_{Mea} - P_{pl} - G_a

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



A.2.2 Measurement Limit

Part 24.238, Part 22.917 specify that the power any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz),WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II,WCDMA Band Vinto any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.



A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
WCDMA Band V	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
WCDMA Band II	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
WCDMA Band V	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
WCDMA Band II	5~8	1 MHz	3 MHz	3
WCDIVIA Bariu II	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2



WCDMA BAND II Mode Channel 9262/1852.4MHz

Fragues ov (MHz)	D (dDm)	Path	Antenna	Peak	Limit	Margin(dP)	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	Margin(dB)	Polarization
4075.11	-63.75	5.60	-8.98	-60.37	-13.00	47.37	V
5814.42	-62.83	6.64	-10.54	-58.93	-13.00	45.93	Н
7429.27	-63.59	7.20	-12.12	-58.67	-13.00	45.67	V
9884.87	-63.04	8.24	-13.02	-58.26	-13.00	45.26	V
11693.75	-58.90	8.78	-13.06	-54.62	-13.00	41.62	Н
13607.56	-51.60	10.12	-14.26	-47.46	-13.00	34.46	V

WCDMA BAND II Mode Channel 9400/1880MHz

Fragues ov (MILT)	/		Antenna	Peak	Limit	Margin (dD)	Dolorization	
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	Margin(dB)	Polarization	
3925.48	-63.45	5.80	-8.80	-60.45	-13.00	47.45	٧	
5554.51	-61.73	6.59	-10.59	-57.73	-13.00	44.73	I	
7271.69	-62.07	7.14	-11.93	-57.28	-13.00	44.28	I	
9544.22	-61.34	8.23	-13.36	-56.21	-13.00	43.21	V	
11338.43	-59.59	9.11	-13.13	-55.57	-13.00	42.57	Н	
13266.71	-54.80	9.91	-13.87	-50.84	-13.00	37.84	Н	

WCDMA BAND II Mode Channel 9538/1907.6MHz

Frequency(MHz)	D (dPm)	Path	Antenna	Peak	Limit	Margin(dB)	Polarization
Frequency(winz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	iviargiri(ub)	Polarization
3589.78	-64.56	5.53	-8.33	-61.76	-13.00	48.76	Н
5522.12	-65.39	6.66	-10.60	-61.45	-13.00	48.45	V
7720.76	-60.68	7.28	-12.38	-55.58	-13.00	42.58	V
9588.93	-59.25	8.31	-13.31	-54.25	-13.00	41.25	Н
11565.24	-58.70	9.09	-13.09	-54.70	-13.00	41.70	Н
13508.96	-54.55	9.94	-14.21	-50.28	-13.00	37.28	Н



WCDMA BAND V Mode Channel 4132/826.4MHz

Fraguenov/MHz)	D (dDm)	Path	Antenna	Correction	Peak	Limit	Morain(dD)	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	(dB)	ERP(dBm)	(dBm)	Margin(dB)	Polanzation
1650.99	-61.40	3.42	-5.23	2.15	-61.74	-13.00	48.74	V
2609.65	-61.42	4.57	-6.30	2.15	-61.84	-13.00	48.84	Н
3301.10	-54.64	5.37	-7.72	2.15	-54.44	-13.00	41.44	>
4125.77	-49.15	5.79	-9.03	2.15	-48.06	-13.00	35.06	I
4822.27	-63.56	6.41	-9.72	2.15	-62.40	-13.00	49.40	I
5763.18	-63.41	6.78	-10.55	2.15	-61.79	-13.00	48.79	٧

WCDMA BAND V Mode Channel 4183/836.6MHz

Fragues ov (MIII-)	D (dDm)	Path	Antenna	Correction	Peak	Limit	Morgin (dD)	Delegization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	(dB)	ERP(dBm)	(dBm)	Margin(dB)	Polarization
3341.59	-53.23	5.19	-7.82	2.15	-52.75	-13.00	39.75	V
4188.82	-48.77	5.88	-9.09	2.15	-47.71	-13.00	34.71	Н
5054.12	-65.15	6.42	-9.98	2.15	-63.74	-13.00	50.74	V
5897.03	-61.00	6.89	-10.52	2.15	-59.52	-13.00	46.52	V
6524.68	-62.24	6.86	-11.03	2.15	-60.22	-13.00	47.22	Н
7338.94	-62.56	7.15	-12.01	2.15	-59.85	-13.00	46.85	V

WCDMA BAND V Mode Channel 4233/846.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path	Antenna	Correction	Peak	Limit	Margin(dB)	Polarization
i requericy(ivii iz)	Mea (ubiii)	Loss	Gain	(dB)	ERP(dBm)	(dBm)	iviargin(db)	Folalization
1695.69	-60.13	3.45	-5.15	2.15	-60.58	-13.00	47.58	V
2741.54	-60.60	4.72	-6.53	2.15	-60.94	-13.00	47.94	V
3391.09	-54.71	5.43	-7.94	2.15	-54.35	-13.00	41.35	V
4239.17	-51.58	6.07	-9.14	2.15	-50.66	-13.00	37.66	Н
4969.55	-62.49	6.35	-9.87	2.15	-61.12	-13.00	48.12	V
5713.82	-64.20	6.72	-10.56	2.15	-62.51	-13.00	49.51	V



A.3 FREQUENCY STABILITY

A.3.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30℃.
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on mid channel of WCDMA Band II and WCDMA Band V, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6. Subject the EUT to overnight soak at +50°C.
- 7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8. Repeat the above measurements at 10 C decrements from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.3.2 Measurement Limit

A.3.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.2VDC, with a nominal voltage of 3.7VDC Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section



2.1055(d)(1) applies.

A.3.3 Measurement results

WCDMA Band II

Frequency Error vs Voltage-QPSK

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	4	0.002
3.7	5	0.003
4.2	-4	0.002

Frequency Error vs Temperature-QPSK

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	10	0.006
-20	7	0.004
-10	8	0.004
0	6	0.003
10	-4	0.002
20	-5	0.003
30	3	0.002
40	7	0.004
50	-6	0.003

Frequency Error vs Voltage-16QAM

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-1	0.001
3.7	-4	0.002
4.2	3	0.002

Frequency Error vs Temperature-16QAM

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-2	0.001
-20	5	0.003
-10	-5	0.003
0	3	0.002
10	2	0.001
20	-6	0.003
30	4	0.002
40	-4	0.002
50	3	0.002



WCDMA Band V

Frequency Error vs Voltage-QPSK

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-6	0.007
3.7	5	0.005
4.2	-3	0.004

Frequency Error vs Temperature-QPSK

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-4	0.004
-20	-6	0.007
-10	6	0.007
0	-7	0.009
10	-3	0.003
20	-4	0.005
30	3	0.003
40	-5	0.006
50	3	0.004

Frequency Error vs Voltage-16QAM

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-2	0.002
3.7	1	0.001
4.2	1	0.001

Frequency Error vs Temperature-16QAM

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	2	0.002
-20	-3	0.004
-10	-3	0.004
0	-1	0.001
10	-4	0.005
20	3	0.004
30	-2	0.002
40	-1	0.001
50	-1	0.001



A.4 OCCUPIED BANDWIDTH

Reference

FCC: CFR Part 2.1049(h)(i)

A.4.1 Occupied Bandwidth Results

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the US Cellular/PCS frequency bands. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from KDB 971168 v02r02 4.2:

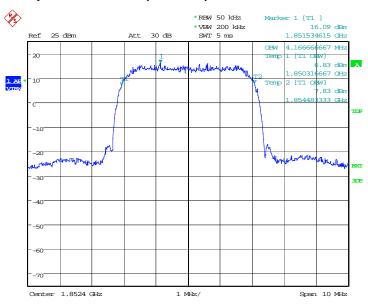
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

WCDMA Band II (99% BW)-QPSK

·	
Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1852.4	4.167
1880.0	4.167
1907.6	4.167

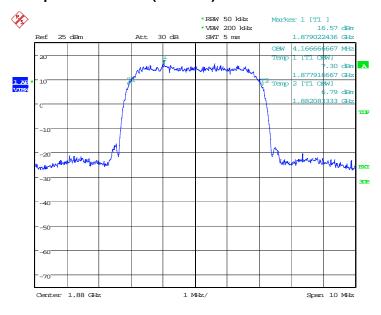
WCDMA Band II

Channel 9262-Occupied Bandwidth (99% BW)



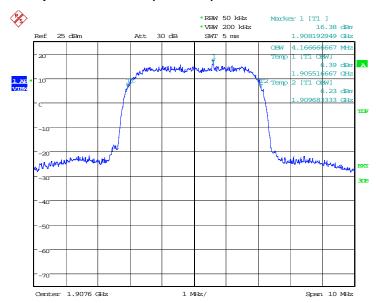


Channel 9400-Occupied Bandwidth (99% BW)



Date: 21.MAR.2016 20:47:21

Channel 9538-Occupied Bandwidth (99% BW)



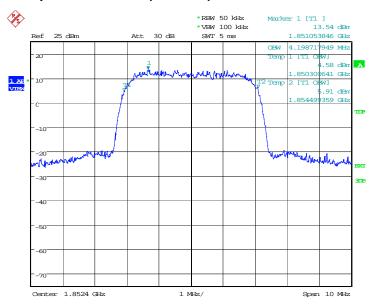
Date: 21.MAR.2016 20:47:56



WCDMA Band II (99% BW)-16QAM

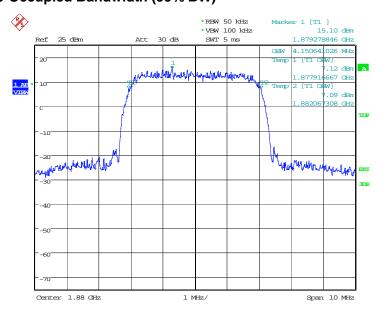
Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1852.4	4.199
1880.0	4.151
1907.6	4.167

WCDMA Band II Channel 9262-Occupied Bandwidth (99% BW)



Date: 23.MAR.2016 05:04:49

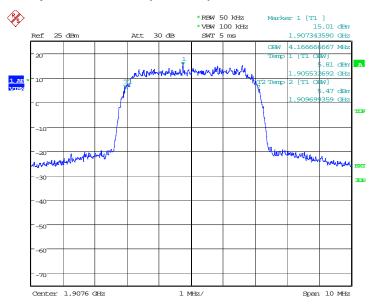
Channel 9400-Occupied Bandwidth (99% BW)



Date: 23.MAR.2016 05:06:20



Channel 9538-Occupied Bandwidth (99% BW)



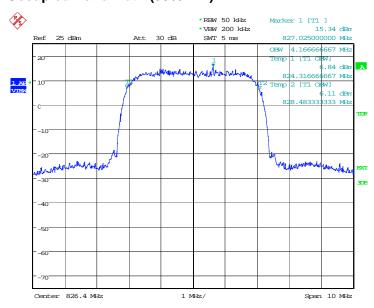
Date: 23.MAR.2016 05:16:56



WCDMA Band V(99% BW)-QPSK

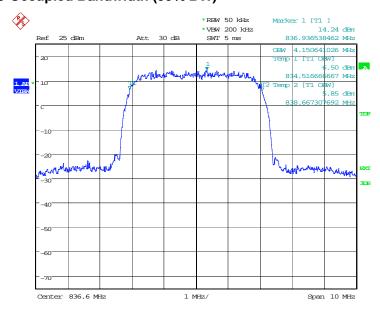
Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
826.4	4.167
836.6	4.151
846.6	4.167

WCDMA Band V Channel 4132-Occupied Bandwidth (99% BW)



Date: 21.MAR.2016 21:11:03

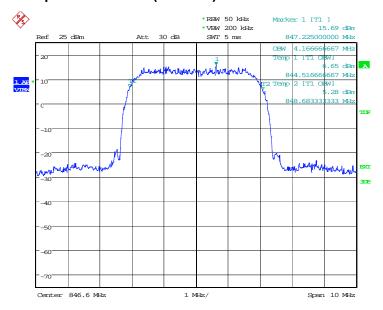
Channel 4183-Occupied Bandwidth (99% BW)



Date: 21.MAR.2016 21:11:37



Channel 4233-Occupied Bandwidth (99% BW)



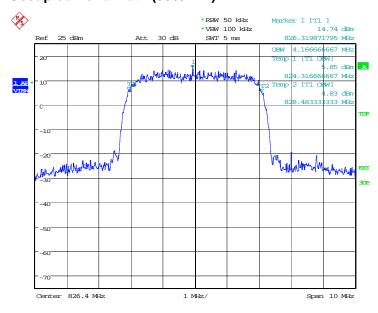
Date: 21.MAR.2016 21:12:12



WCDMA Band V(99% BW)-16QAM

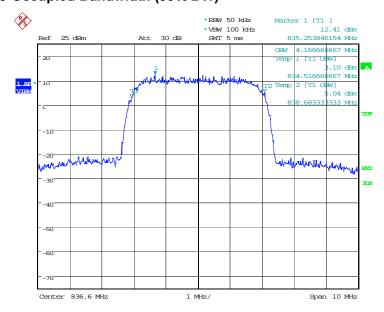
Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
826.4	4.167
836.6	4.167
846.6	4.183

WCDMA Band V Channel 4132-Occupied Bandwidth (99% BW)



Date: 23.MAR.2016 05:39:05

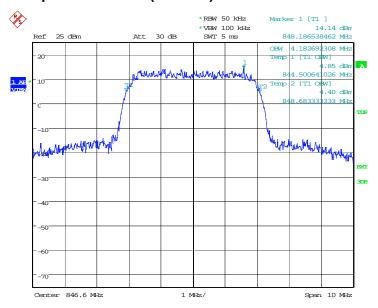
Channel 4183-Occupied Bandwidth (99% BW)



Date: 23.MAR.2016 05:40:46



Channel 4233-Occupied Bandwidth (99% BW)



Date: 23.MAR.2016 05:42:09



A.5 EMISSION BANDWIDTH

Reference

FCC: CFR Part 22.917(b), 24.238(a)

A.5.1Emission Bandwidth Results

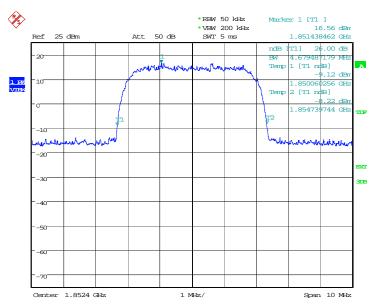
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

WCDMA Band II - QPSK

Frequency(MHz)	Emission Bandwidth (MHz)
1852.4	4.68
1880.0	4.70
1907.6	4.68

WCDMA Band II

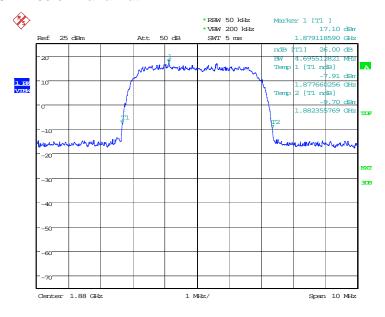
Channel 9262-Emission Bandwidth



Date: 19.APR.2016 01:01:35

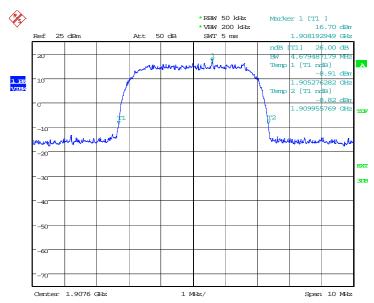


Channel 9400-Emission Bandwidth



Date: 19.APR.2016 01:02:45

Channel 9538-Emission Bandwidth



Date: 19.APR.2016 01:03:55

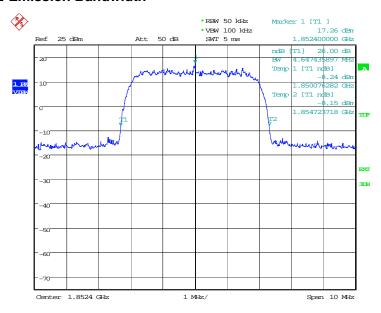


WCDMA Band II -16QAM

Frequency(MHz)	Emission Bandwidth (MHz)
1852.4	4.65
1880.0	4.70
1907.6	4.71

WCDMA Band II

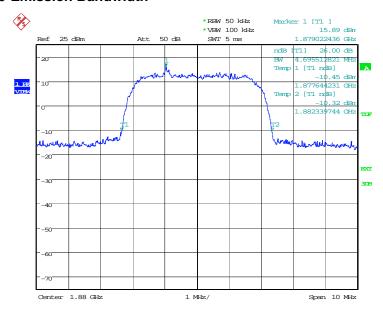
Channel 9262-Emission Bandwidth



Date: 19.APR.2016 01:19:19

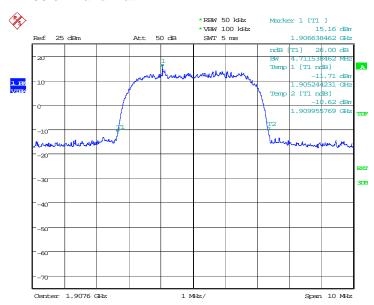


Channel 9400-Emission Bandwidth



Date: 19.APR.2016 01:23:00

Channel 9538-Emission Bandwidth



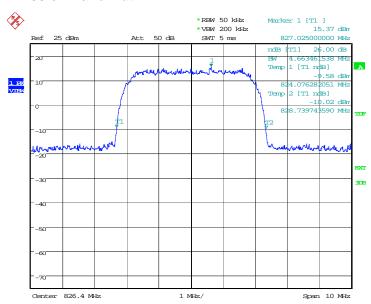
Date: 19.APR.2016 01:47:17



WCDMA Band V-QPSK

Frequency(MHz)	Emission Bandwidth (MHz)	
826.40	4.66	
836.60	4.68	
846.60	4.68	

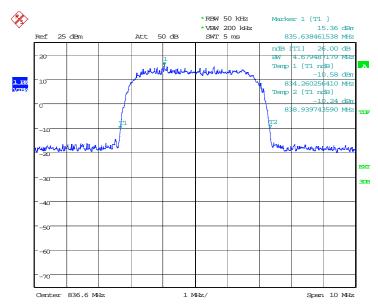
WCDMA Band V Channel 4132-Emission Bandwidth



Date: 19.APR.2016 01:07:22

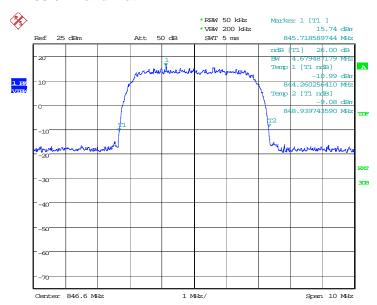


Channel 4183-Emission Bandwidth



Date: 19.APR.2016 01:08:31

Channel 4233-Emission Bandwidth



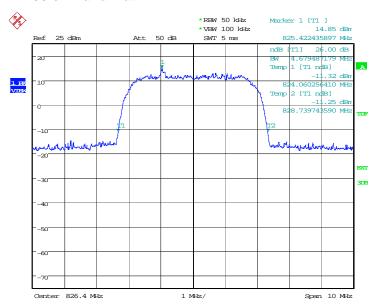
Date: 19.APR.2016 01:09:41



WCDMA Band V-16QAM

Frequency(MHz)	Emission Bandwidth (MHz)	
826.40	4.68	
836.60	4.68	
846.60	4.66	

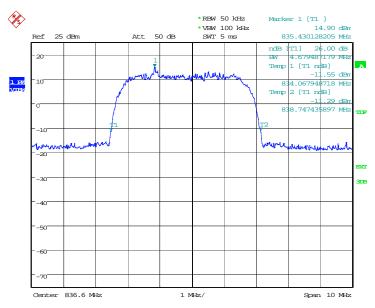
WCDMA Band V Channel 4132-Emission Bandwidth



Date: 19.APR.2016 03:17:24

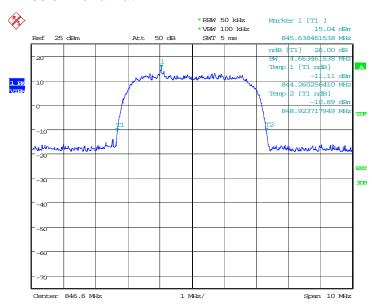


Channel 4183-Emission Bandwidth



Date: 19.APR.2016 03:19:46

Channel 4233-Emission Bandwidth



Date: 19.APR.2016 03:22:10



A.6 BAND EDGE COMPLIANCE

Reference

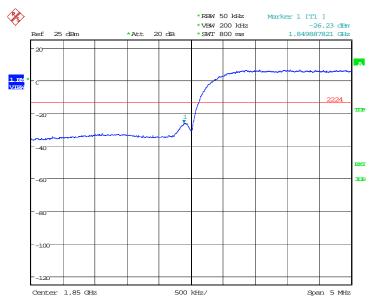
FCC: CFR Part 22.917(b), 24.238(a).

A.6.1 Measurement limit

On any frequency outside frequency band of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log (P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm. According to KDB 971168 v02r02 6.0, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

A.6.2 Measurement result

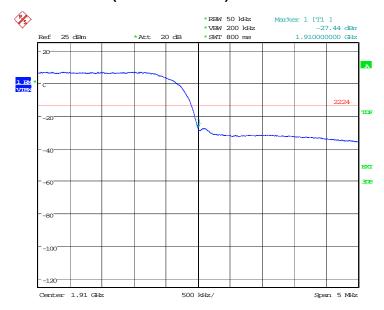
WCDMA Band ${ m II}$ -QPSK LOW BAND EDGE BLOCK-A (WCDMA Band ${ m II}$)-Channel 9262



Date: 21.MAR.2016 20:49:52



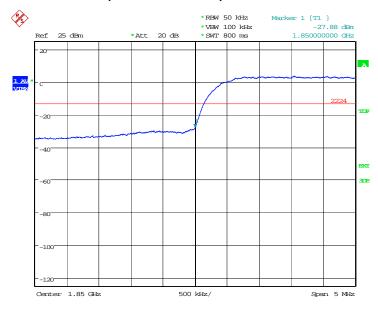
HIGH BAND EDGE BLOCK-C (WCDMA Band II) -Channel 9538



Date: 21.MAR.2016 20:51:59

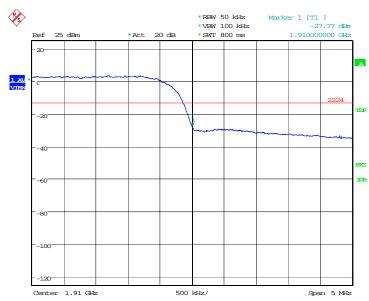


WCDMA Band ${ m II}$ -16QAM LOW BAND EDGE BLOCK-A (WCDMA Band ${ m II}$)-Channel 9262



Date: 23.MAR.2016 05:32:05

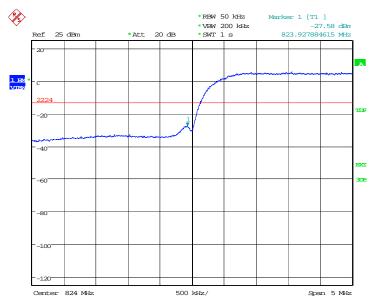
HIGH BAND EDGE BLOCK-C (WCDMA Band II) -Channel 9538



Date: 23.MAR.2016 05:33:25

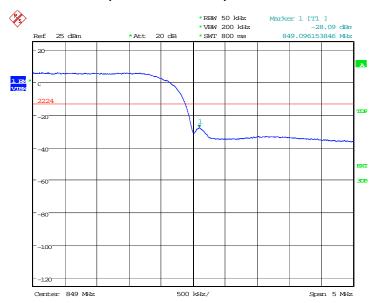


WCDMA Band V -QPSK LOW BAND EDGE BLOCK-A (WCDMA Band V)-Channel 4132



Date: 21.MAR.2016 21:14:08

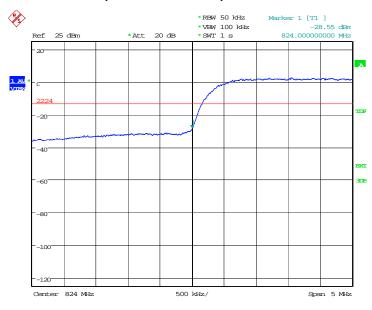
HIGH BAND EDGE BLOCK-C (WCDMA Band V) - Channel 4233



Date: 21.MAR.2016 21:16:14

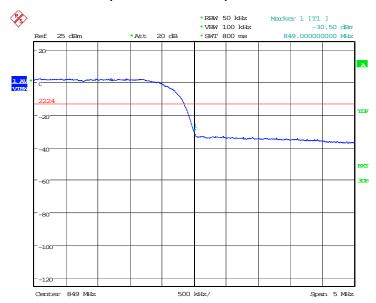


WCDMA Band V-16QAM LOW BAND EDGE BLOCK-A (WCDMA Band V)-Channel 4132



Date: 23.MAR.2016 06:00:16

HIGH BAND EDGE BLOCK-C (WCDMA Band V) - Channel 4233



Date: 23.MAR.2016 05:50:33



A.7 CONDUCTED SPURIOUS EMISSION

Reference

FCC: CFR Part 2.1057, 22.917, 24.238.

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

- Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
- 2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
- 3. According to KDB 971168 v02r02 6.0, the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz)

WCDMA Band II Transmitter

Channel	Frequency (MHz)		
9262	1852.40		
9400	1880.00		
9538	1907.60		

WCDMA Band V Transmitter

Channel	Frequency (MHz)	
4132	826.40	
4183	836.60	
4233	846.60	

A.7.2 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

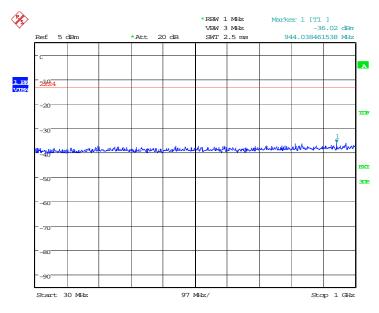


A.7.3 Measurement result

WCDMA Band II

Channel 9262: 30MHz -1GHz

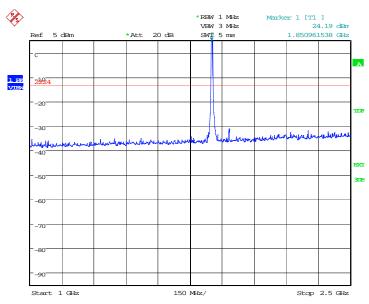
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:54:40

Channel 9262: 1GHz –2.5GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

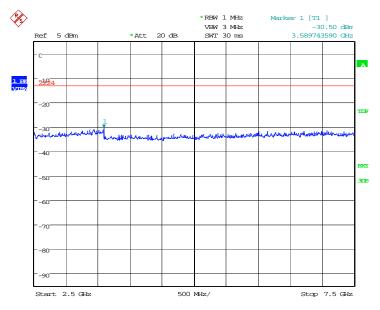


Date: 21.MAR.2016 20:55:08



Channel 9262: 2.5GHz -7.5GHz

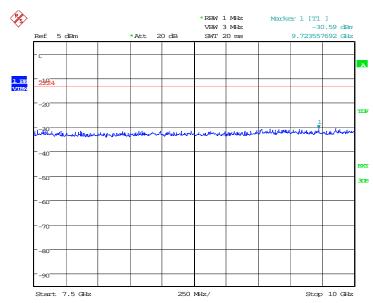
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:55:36

Channel 9262: 7.5GHz -10GHz

Spurious emission limit -13dBm.

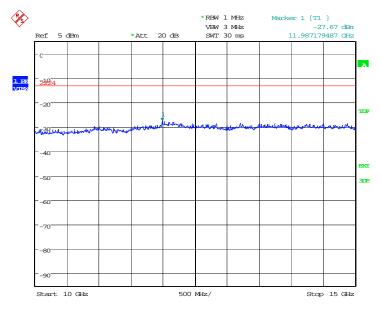


Date: 21.MAR.2016 20:56:05



Channel 9262: 10GHz -15GHz

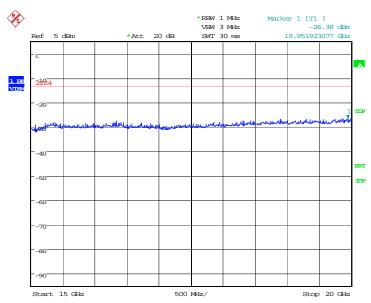
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:56:33

Channel 9262: 15GHz -20GHz

Spurious emission limit -13dBm.

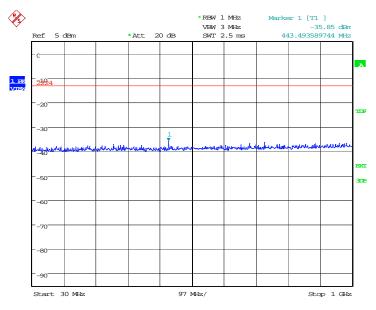


Date: 21.MAR.2016 20:57:01



Channel 9400: 30MHz -1GHz

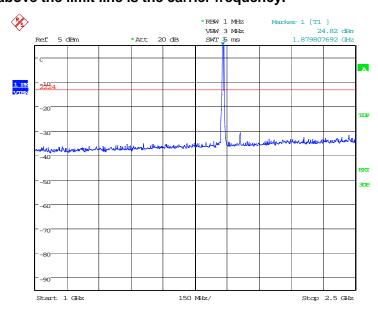
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:57:32

Channel 9400: 1GHz –2.5GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

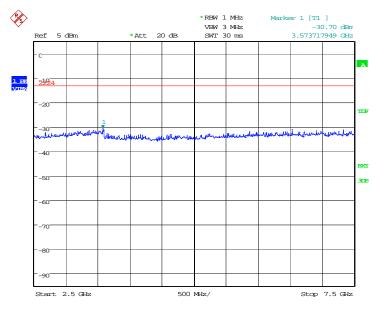


Date: 21.MAR.2016 20:58:00



Channel 9400: 2.5GHz -7.5GHz

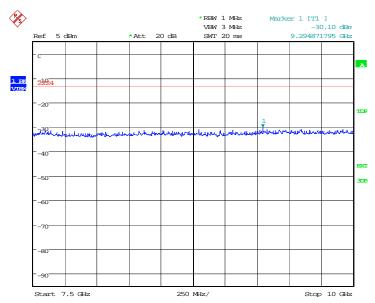
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:58:28

Channel 9400: 7.5GHz -10GHz

Spurious emission limit -13dBm.

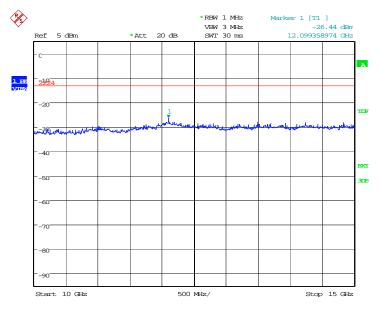


Date: 21.MAR.2016 20:58:56



Channel 9400: 10GHz -15GHz

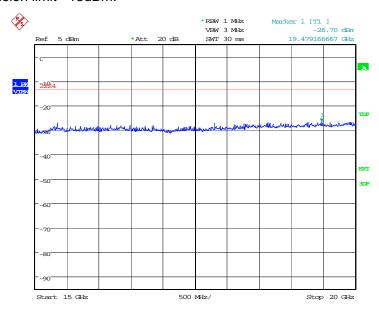
Spurious emission limit -13dBm.



Date: 21.MAR.2016 20:59:25

Channel 9400: 15GHz -20GHz

Spurious emission limit -13dBm.

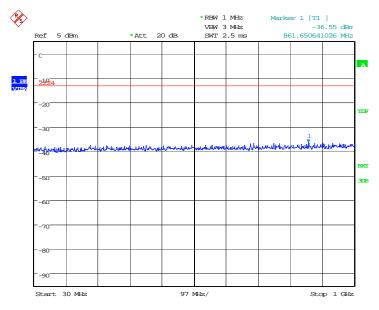


Date: 21.MAR.2016 20:59:53



Channel 9538: 30MHz -1GHz

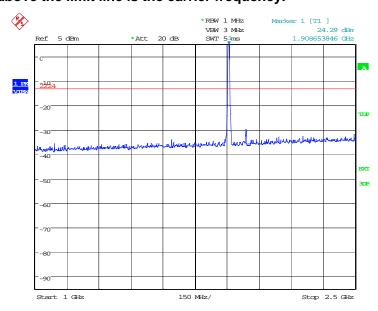
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:00:24

Channel 9538: 1GHz –2.5GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

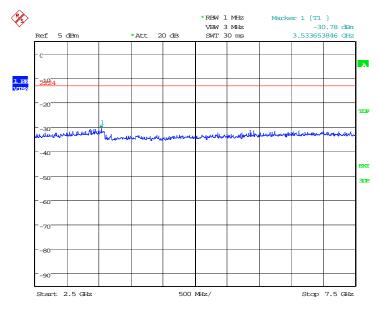


Date: 21.MAR.2016 21:00:52



Channel 9538: 2.5GHz -7.5GHz

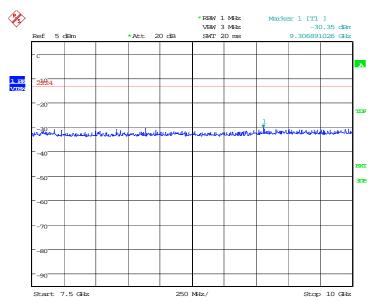
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:01:20

Channel 9538: 7.5GHz -10GHz

Spurious emission limit -13dBm.

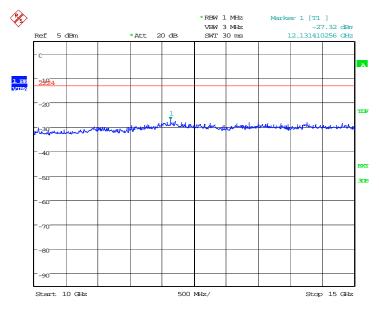


Date: 21.MAR.2016 21:01:48



Channel 9538: 10GHz -15GHz

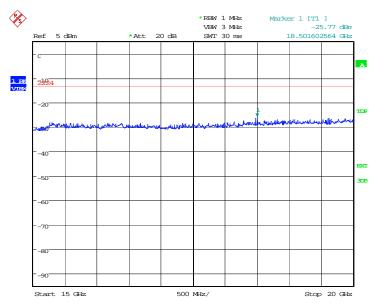
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:02:17

Channel 9538: 15GHz -20GHz

Spurious emission limit -13dBm.



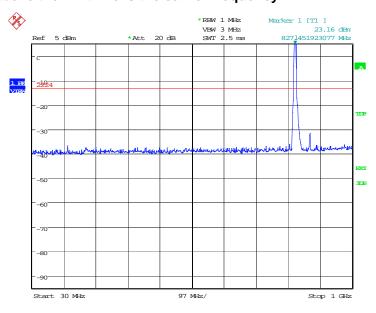
Date: 21.MAR.2016 21:02:45



WCDMA Band V

Channel 4132: 30MHz –1GHz Spurious emission limit –13dBm.

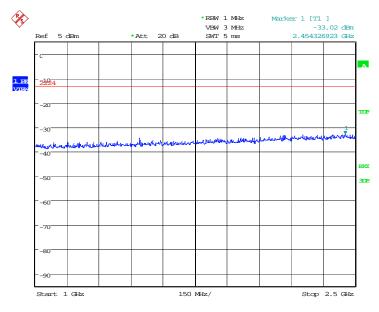
NOTE: peak above the limit line is the carrier frequency.



Date: 21.MAR.2016 21:18:55

Channel 4132: 1GHz - 2.5GHz

Spurious emission limit -13dBm.

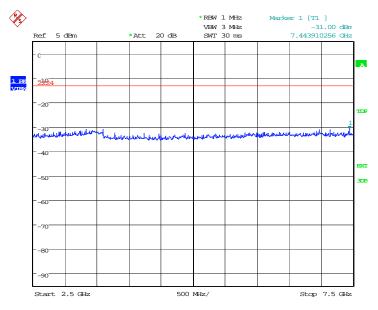


Date: 21.MAR.2016 21:19:24



Channel 4132: 2.5GHz -7.5GHz

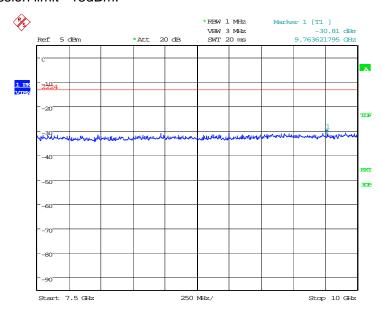
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:19:52

Channel 4132: 7.5GHz - 10GHz

Spurious emission limit -13dBm.

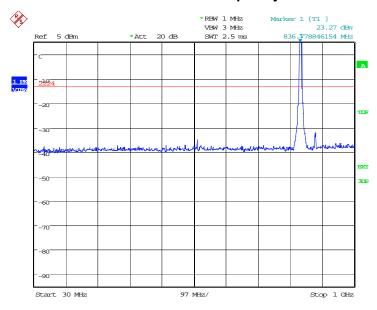


Date: 21.MAR.2016 21:20:20



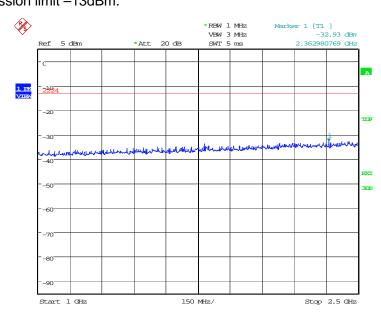
Channel 4183: 30MHz –1GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



Date: 21.MAR.2016 21:20:51

Channel 4183: 1GHz – 2.5GHz Spurious emission limit –13dBm.

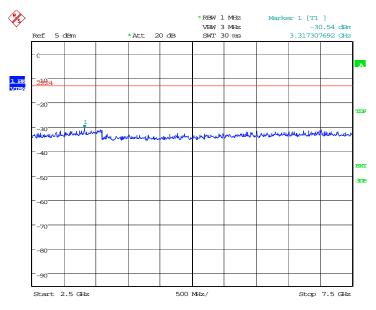


Date: 21.MAR.2016 21:21:19



Channel 4183: 2.5GHz -7.5GHz

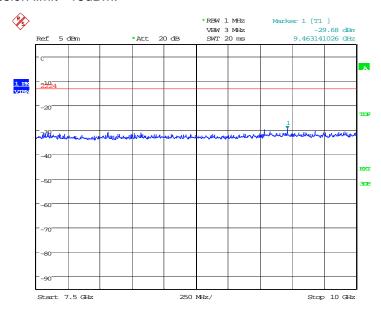
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:21:47

Channel 4183: 7.5GHz - 10GHz

Spurious emission limit -13dBm.

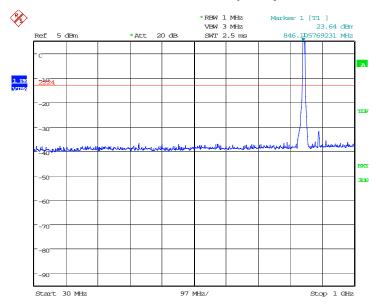


Date: 21.MAR.2016 21:22:16



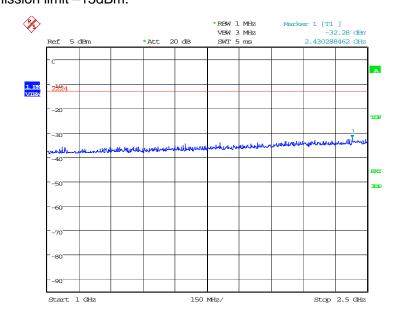
Channel 4233: 30MHz –1GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



Date: 21.MAR.2016 21:22:46

Channel 4233: 1GHz – 2.5GHz Spurious emission limit –13dBm.

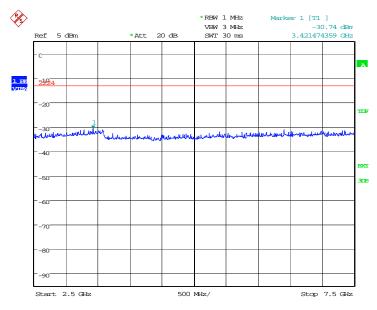


Date: 21.MAR.2016 21:23:14



Channel 4233: 2.5GHz -7.5GHz

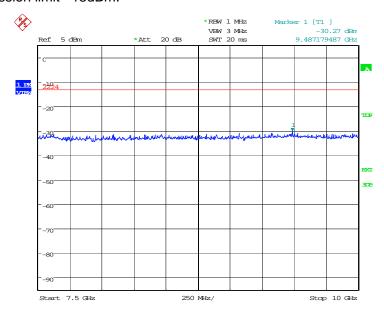
Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:23:42

Channel 4233: 7.5GHz - 10GHz

Spurious emission limit -13dBm.



Date: 21.MAR.2016 21:24:11



A.8 PEAK-TO-AVERAGE POWER RATIO

Reference

FCC: CFR Part 24.232 (d)

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

According to KDB 971168 v02r02 5.7.1:

- a)Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms
- e)Record the maximum PAPR level associated with a probability of 0.1%

A.8.1 Measurement limit

not exceed 13 dB

A.8.2 Measurement results WCDMA Band II-QPSK

Measurement result

	CH	Frequency(MHz)	PAPR(dB)
WCDMA	0400	1000.0	2.52
(Band II)	9400	1880.0	3.53

WCDMA Band II-16QAM

Measurement result

	CH	Frequency(MHz)	PAPR(dB)
WCDMA	9400	1880.0	5.71
(Band II)	9700	1000.0	5.71

END OF REPORT