TEST REPORT

No. I14Z47151-GTE02

for

TCT Mobile Limited

GSM Quad band UMTS Tri-band mobile phone

Model Name: A206G

FCC ID: RAD477

with

Hardware Version: PIO

Software Version: D2B

Issued Date: 2014-07-14

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 TMC Beijing.

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629B

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

3/F Shou Xiang Technology Building, No.51 Xueyuan Road, Hai Dian District, Beijing, P. R. China,100191.

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CONTENTS

1. Test Laboratory

1.1. Testing Location

Company Name:	TMC Beijing, Telecommunication Metrology Center of MIIT
Address:	3/F Shou Xiang Technology Building, No.51 Xueyuan Road, Hai Dian District, Beijing, P. R. China
Postal Code:	100191
Telephone:	00861062304633
Fax:	00861062304793

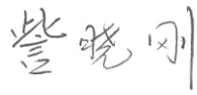
1.2. Testing Environment

Normal Temperature:	15-35℃
Relative Humidity:	20-75%

1.3. Project data

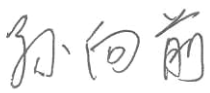
Testing Start Date:	2014-06-25
Testing End Date:	2014-07-04

1.4. Signature



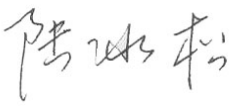
Zi Xiaogang

(Prepared this test report)



Sun Xiangqian

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	TCT Mobile Limited
Address /Post:	5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China.
City:	Shanghai
Postal Code:	201203
Country:	China
Contact Person:	Gong Zhizhou
Contact Email	zhizhou.gong@jrdcom.com
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

2.2. Manufacturer Information

Company Name:	TCT Mobile Limited
Address /Post:	5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China.
City:	Shanghai
Postal Code:	201203
Country:	China
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

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

3.1. About EUT

Description	GSM Quad band UMTS Tri-band mobile phone
Model Name	A206G
FCC ID	RAD477
Antenna	Integrated
Output power	25.76dBm maximum EIRP measured for WCDMA Band II
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.8VDC)
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 Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT07a	014052000001722	PIO	D2B
UT08a	014052000001862	PIO	D2B

*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	SN	Remarks
AE1	Battery	/	TCT-B-0110
AE2	Battery	/	TCT-B-0099
AE3	Battery	/	TCT-B-0120
AE4	Battery	/	TCT-B-1618
AE5	Battery	/	TCT-B-1285
AE6	Travel charger	/	TCT-CHR-1951
AE7	Travel charger	/	TCT-CHR-1955
AE8	Travel charger	/	TCT-CHR-1314
AE9	Travel charger	/	TCT-CHR-1967
AE10	USB cable	/	1445902DC001
AE11	Headset	/	TCT-E-0636

AE1,AE2,AE3,AE4,AE5

Model	CAB3120000C1
Manufacturer	BYD
Capacitance	1000 mAh
Nominal voltage	3.8 V

AE6, AE7

Model	CBA3002AG0C2
Manufacturer	Tenpao

Length of cable	120cm
AE8, AE9	
Model	CBA3002AG0C3
Manufacturer	Yingju
Length of cable	126cm
AE10	
Model	CDA3122002C2
Manufacturer	shenhua
Length of cable	99cm
AE11	
Model	CCB3160A11C2
Manufacturer	Lianyun
Length of cable	151cm

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

3.4. Normal Accessory setting

Fully charged battery was used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of GSM Quad band UMTS Tri-band mobile phone with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

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	10-1-13 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-13 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-13 Edition
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003
KDB971168 D01	Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems	v02r01, 2013

5. LABORATORY ENVIRONMENT

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

Temperature	Min. = 15 ℃, Max. = 35 ℃
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 ℃, Max. = 30 ℃
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 ℃, Max. = 30 ℃
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

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(c)/27.50(d)(2)	P
2	Emission Limit	2.1051/22.917/24.238/27.53(h)	P
3	CONDUCTED EMISSION	15.107/15.207	P
4	Frequency Stability	2.1055/24.235/ 27.54	P
5	Occupied Bandwidth	2.1049(h)(i)	P
6	Emission Bandwidth	22.917(b)/24.238(b)/ 27.53(g)	P
7	Band Edge Compliance	22.917(b)/24.238(b)/ 27.53(g)	P
8	Conducted Spurious Emission	2.1057/22.917/24.238/ 27.53(g)	P

7. Test Equipments Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE
1	Test Receiver	ESCI	100344	R&S	2015-03-03
2	Test Receiver	ESU26	100376	R&S	2014-11-05
3	EMI Antenna	VULB 9163	514	Schwarzbeck	2014-11-10
4	EMI Antenna	3117	00139065	ETS-Lindgren	2014-07-31
5	LISN	NV216	101200	R&S	2015-07-07
6	Universal Radio Communication Tester	CMU200	108646	R&S	2014-11-04
7	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2015-02-27
8	Spectrum Analyzer	E4440A	MY48250642	Agilent	2015-02-27
9	EMI Antenna	9117	167	Schwarzbeck	2016-04-01
10	EMI Antenna	VULB 9163	9163 175	Schwarzbeck	2015-07-15
11	EMI Antenna	3117	00119024	ETS-Lindgren	2016-01-20
12	Signal Generator	N5183A	MY49060052	Agilent	2015-03-02
13	Climate chamber	SH-241	92007454	ESPEC	2015-12-14
14	Loop Antenna	HFH2-Z2	829324/007	R&S	2014-12-12

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 and 1712.4MHz, 1740MHz, and 1752.6MHz for WCDMA Band IV(bottom, middle and top of operational frequency range).

WCDMA Band II

Measurement result

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band II)	9262	1852.4	23.23
	9400	1880.0	22.83
	9538	1907.6	22.49

WCDMA Band V

Measurement result

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band V)	4132	826.4	23.91
	4183	836.6	23.98
	4233	846.6	23.67

WCDMA Band IV

Measurement result

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band IV)	1312	1712.4	23.44
	1450	1740.0	23.73
	1513	1752.6	23.30

A.1.3 Radiated

A.1.3.1 Description

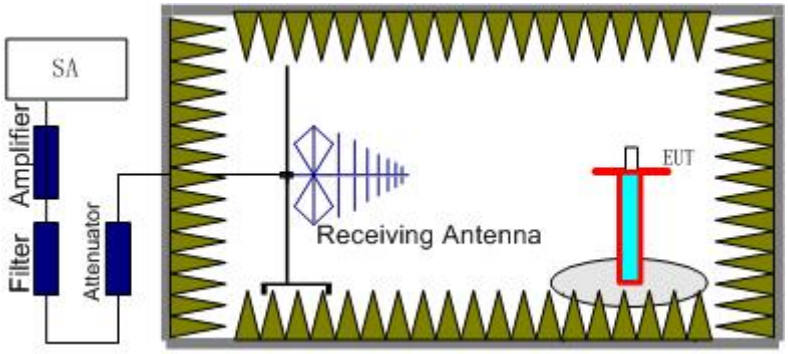
This is the test for the maximum radiated power from the EUT.

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." Rule Part 27.50(d)(2) specifies, "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to a peak EIRP of 1 watt."

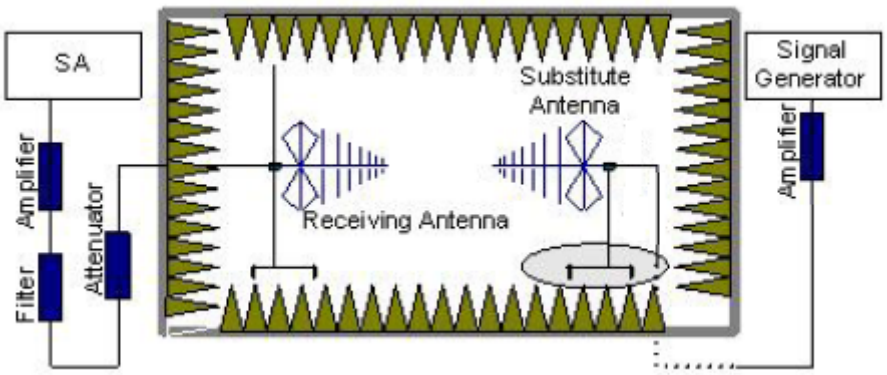
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603C-2004 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

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	-25.61	3.18	-50.00	-4.55	**25.76**	33.00	7.24	V
1880.00	-25.99	3.11	-50.00	-4.43	25.33	33.00	7.67	V
1907.60	-25.58	3.18	-50.00	-4.31	25.55	33.00	7.45	V

Frequency**:** 1852.40MHz

Peak EIRP(dBm)= P_{Mea}(-25.61dBm)- P_{cl}(3.18dB)- P_{Ag}(-50.00dB) - G_a (-4.55dB) =25.76dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band V-ERP

Limits

	Burst Peak ERP (dBm)
WCDMA Band V	38.45dBm (7W)

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	-27.00	2.07	-53.00	0.85	2.15	20.93	38.45	17.52	V
836.60	-26.28	2.08	-53.00	0.90	2.15	**21.59**	38.45	16.86	V
846.60	-27.15	2.09	-53.00	0.94	2.15	20.67	38.45	17.78	V

Frequency**:** 836.60MHz

Peak ERP(dBm)= P_{Mea}(-26.28dBm)- P_{cl}(2.08dB)- P_{Ag}(-53.00dB)-G_a (0.90dB)-2.15dB=21.59dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band IV-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band IV	30dBm (2W)

Measurement result

Frequency(MHz)	P_{Mea}(dBm)	P_{cl}(dB)	P_{Ag}(dB)	G_a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1712.40	-27.93	2.97	-50.00	-5.17	**24.27**	33.00	8.73	V
1740.00	-27.82	2.99	-50.00	-5.04	24.23	33.00	8.77	V
1752.60	-28.16	3.01	-50.00	-4.99	23.82	33.00	9.18	V

Frequency**:** 1712.40MHz

Peak EIRP(dBm)= P_{Mea}(-27.93dBm)- P_{cl}(2.97dB)- P_{Ag}(-50.00dB) - G_a (-5.17dB) = 24.27dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

A.2 EMISSION LIMIT

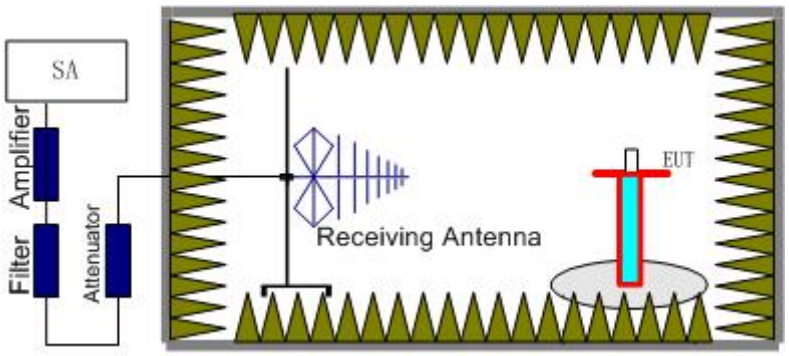
A.2.1 Measurement Method

The measurements procedures in TIA-603C-2004 are used.

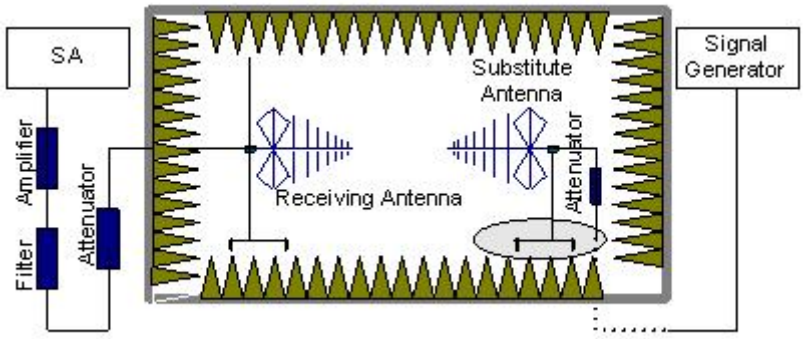
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917 and Part 27.53. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band V and WCDMA Band IV.

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 (P_{pl}) 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 and Part 27.53 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.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) and WCDMA Band IV(1712.4MHz, 1740MHz and 1752.6MHz). 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 V and WCDMA Band IV into 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
WCDMA Band IV	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)
WCDMA Band V	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
WCDMA Band II	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	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 IV	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	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

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3705.95	-60.79	4.42	-8.15	-57.06	-13.00	44.06	V
5553.60	-58.40	5.45	-10.02	-53.83	-13.00	40.83	H
8375.66	-63.16	7.31	-12.13	-58.34	-13.00	45.34	H
10599.30	-56.33	8.27	-12.48	-52.12	-13.00	39.12	V
13500.53	-51.72	9.22	-13.80	-47.14	-13.00	34.14	V
16139.26	-49.14	10.34	-12.83	-46.65	-13.00	33.65	H

WCDMA BAND II Mode Channel 9400/1880MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3761.83	-62.76	4.52	-8.21	-59.07	-13.00	46.07	H
5639.03	-58.01	5.45	-10.06	-53.40	-13.00	40.40	H
6742.14	-58.36	6.12	-10.84	-53.64	-13.00	40.64	V
8745.11	-62.58	7.29	-12.40	-57.47	-13.00	44.47	H
13806.11	-51.83	9.20	-13.92	-47.11	-13.00	34.11	V
16727.51	-46.97	10.33	-12.40	-44.90	-13.00	31.90	V

WCDMA BAND II Mode Channel 9538/1907.6MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3816.99	-61.55	4.49	-8.28	-57.76	-13.00	44.76	H
5724.90	-49.87	5.54	-10.09	-45.32	-13.00	32.32	H
8869.84	-58.83	7.39	-12.50	-53.72	-13.00	40.72	V
11825.85	-61.05	8.75	-12.47	-57.33	-13.00	44.33	H
14876.26	-51.06	9.60	-13.52	-47.14	-13.00	34.14	V
16772.53	-46.99	10.56	-12.40	-45.15	-13.00	32.15	V

WCDMA BAND V Mode Channel 4132/826.4MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit （dBm）	Margin(dB)	Polarization
1655.31	-35.23	2.93	-5.42	2.15	-34.89	-13.00	21.89	V
3302.44	-42.18	4.19	-7.43	2.15	-41.09	-13.00	28.09	H
4175.93	-66.90	4.70	-8.61	2.15	-65.14	-13.00	52.14	H
6081.55	-63.67	5.81	-10.27	2.15	-61.36	-13.00	48.36	H
7142.11	-61.43	6.39	-11.19	2.15	-58.78	-13.00	45.78	V
8472.47	-61.87	6.94	-12.18	2.15	-58.78	-13.00	45.78	H

WCDMA BAND V Mode Channel 4183/836.6MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit （dBm）	Margin(dB)	Polarization
1670.78	-38.94	2.98	-5.35	2.15	-38.72	-13.00	25.72	V
3350.95	-48.80	4.24	-7.54	2.15	-47.65	-13.00	34.65	H
5589.78	-64.19	5.41	-10.04	2.15	-61.71	-13.00	48.71	V
7079.32	-63.73	6.52	-11.15	2.15	-61.25	-13.00	48.25	H
8141.75	-62.24	7.03	-11.99	2.15	-59.43	-13.00	46.43	V
8479.91	-63.63	6.97	-12.19	2.15	-60.56	-13.00	47.56	V

WCDMA BAND V Mode Channel 4233/846.6MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit （dBm）	Margin(dB)	Polarization
1695.69	-32.94	2.95	-5.24	2.15	-32.80	-13.00	19.80	V
3381.42	-47.32	4.23	-7.62	2.15	-46.08	-13.00	33.08	H
4427.06	-66.04	4.81	-8.76	2.15	-64.24	-13.00	51.24	H
6543.25	-65.71	6.05	-10.64	2.15	-63.27	-13.00	50.27	V
8067.97	-62.65	6.91	-11.94	2.15	-59.77	-13.00	46.77	H
9547.63	-61.74	7.78	-12.58	2.15	-59.09	-13.00	46.09	H

WCDMA BAND IV Mode Channel 1312/1712.4MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3461.63	-61.23	4.24	-7.81	-57.66	-13.00	44.66	V
5140.67	-59.77	5.24	-9.78	-55.23	-13.00	42.23	H
6894.63	-59.52	6.09	-10.99	-54.62	-13.00	41.62	V
8660.92	-60.34	7.44	-12.33	-55.45	-13.00	42.45	V
10365.17	-57.93	8.04	-12.47	-53.50	-13.00	40.50	H
11832.66	-56.67	8.72	-12.47	-52.92	-13.00	39.92	H

WCDMA BAND IV Mode Channel 1450/1740MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3490.27	-60.75	4.26	-7.88	-57.13	-13.00	44.13	V
5285.74	-60.20	5.35	-9.87	-55.68	-13.00	42.68	V
7071.23	-59.68	6.56	-11.14	-55.10	-13.00	42.10	V
8739.28	-59.32	7.33	-12.39	-54.26	-13.00	41.26	V
10459.60	-58.04	8.13	-12.49	-53.68	-13.00	40.68	H
12106.22	-53.83	8.82	-12.54	-50.11	-13.00	37.11	H

WCDMA BAND IV Mode Channel 1513/1752.6MHz

Frequency(MHz)	P_{Mea}(dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit （dBm）	Margin(dB)	Polarization
3574.93	-59.87	4.35	-7.99	-56.23	-13.00	43.23	H
5317.97	-61.38	5.39	-9.89	-56.88	-13.00	43.88	H
7114.32	-60.68	6.38	-11.17	-55.89	-13.00	42.89	V
8744.92	-58.78	7.29	-12.40	-53.67	-13.00	40.67	V
10590.54	-57.75	8.14	-12.48	-53.41	-13.00	40.41	V
12314.98	-53.75	8.87	-12.63	-49.99	-13.00	36.99	V

A.3 CONDUCTED EMISSION

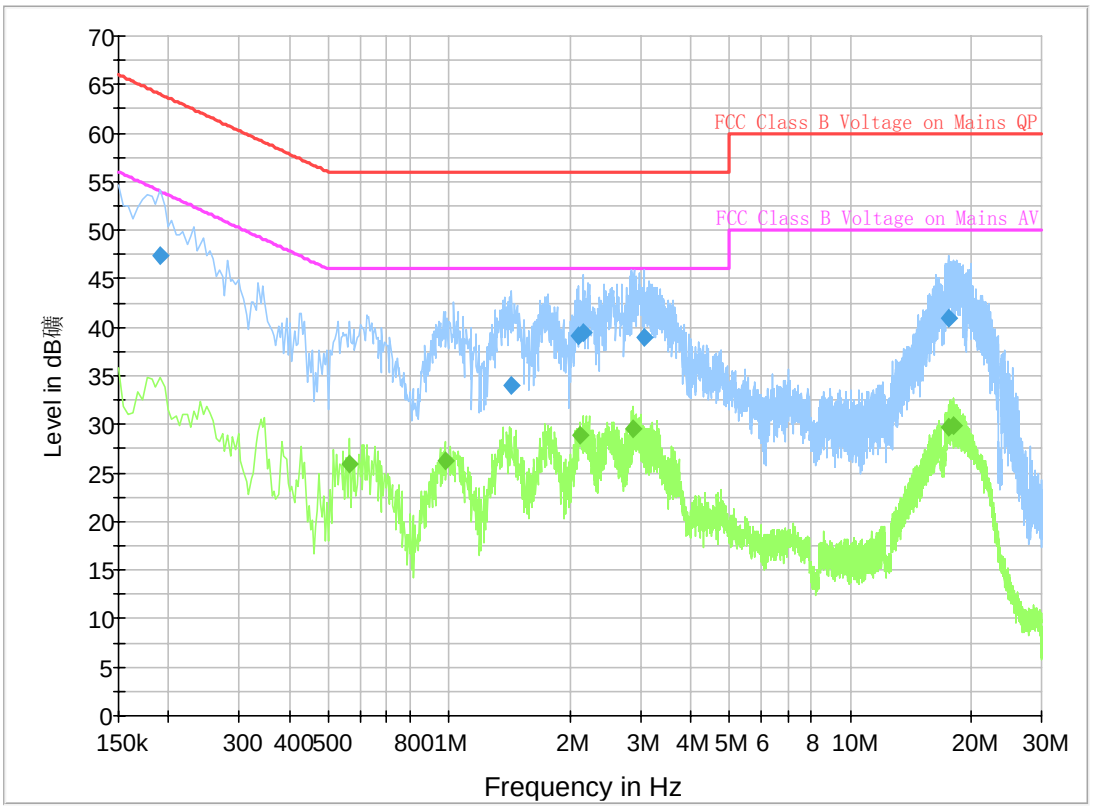
The measurement procedure in ANSI C63.4-2003 is used. Conducted Emission is measured with travel charger.

A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi -Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50
* Decreases with logarithm of the frequency		

A.3.2 Measurement result

WCDMA Band II



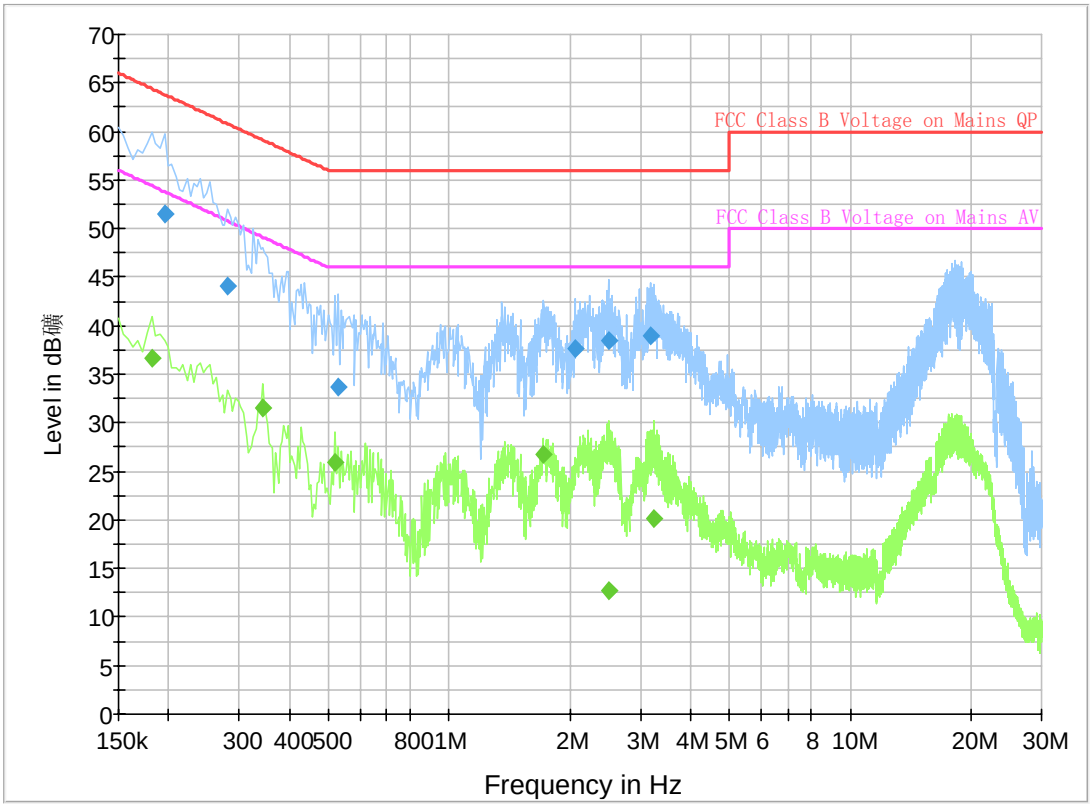
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190500	47.4	GND	L1	9.8	16.6	64.0
1.432500	34.0	GND	N	9.7	22.0	56.0
2.103000	39.2	GND	L1	9.7	16.8	56.0
2.161500	39.4	GND	L1	9.7	16.6	56.0
3.070500	38.9	GND	L1	9.7	17.1	56.0
17.641500	41.0	GND	L1	9.4	19.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.564000	25.8	GND	L1	9.8	20.2	46.0
0.978000	26.2	GND	L1	9.7	19.8	46.0
2.121000	28.9	GND	L1	9.7	17.1	46.0
2.886000	29.6	GND	L1	9.7	16.4	46.0
17.592000	29.8	GND	L1	9.4	20.2	50.0
18.136500	30.0	GND	L1	9.4	20.0	50.0

WCDMA Band V



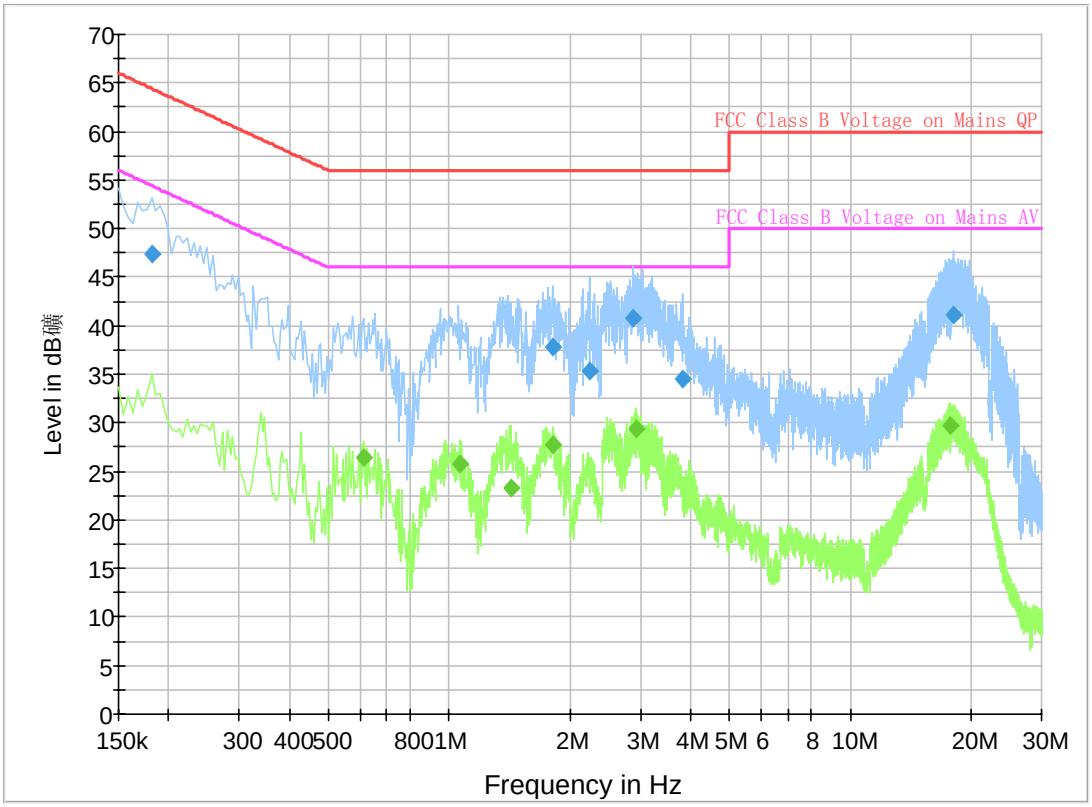
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	51.6	GND	L1	9.8	12.2	63.8
0.280500	44.1	GND	L1	9.8	16.7	60.8
0.528000	33.6	GND	L1	9.8	22.4	56.0
2.067000	37.6	GND	L1	9.7	18.4	56.0
2.494500	38.5	GND	L1	9.7	17.5	56.0
3.169500	39.0	GND	L1	9.7	17.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	36.6	GND	N	9.8	17.8	54.4
0.343500	31.6	GND	L1	9.8	17.5	49.1
0.519000	25.9	GND	L1	9.8	20.1	46.0
1.711500	26.7	GND	L1	9.7	19.3	46.0
2.494500	12.7	GND	L1	9.7	33.3	46.0
3.241500	20.2	GND	L1	9.7	25.8	46.0

WCDMA Band IV



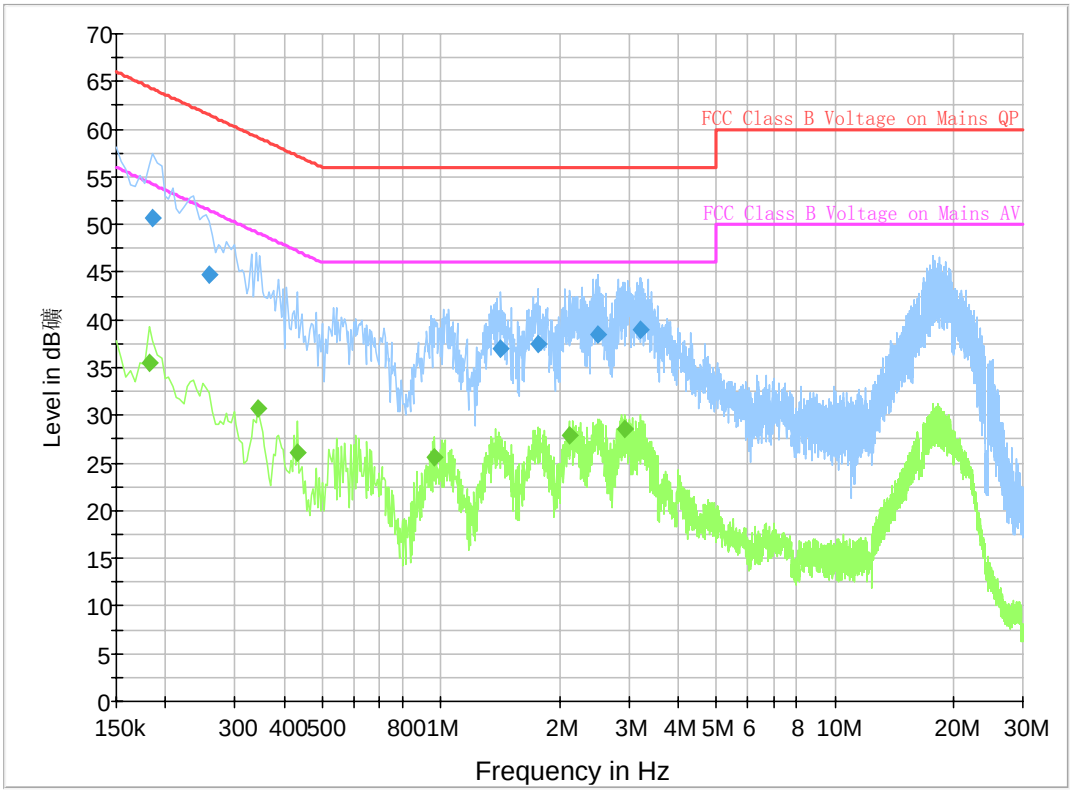
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	47.4	GND	N	9.8	17.0	64.4
1.806000	37.9	GND	L1	9.7	18.1	56.0
2.238000	35.3	GND	N	9.7	20.7	56.0
2.881500	40.7	GND	L1	9.7	15.3	56.0
3.826500	34.6	GND	N	9.7	21.4	56.0
18.064500	41.0	GND	L1	9.4	19.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.613500	26.3	GND	L1	9.8	19.7	46.0
1.068000	25.7	GND	L1	9.7	20.3	46.0
1.423500	23.3	GND	L1	9.7	22.7	46.0
1.806000	27.8	GND	L1	9.7	18.2	46.0
2.940000	29.3	GND	L1	9.7	16.7	46.0
17.821500	29.6	GND	L1	9.4	20.4	50.0

MP3



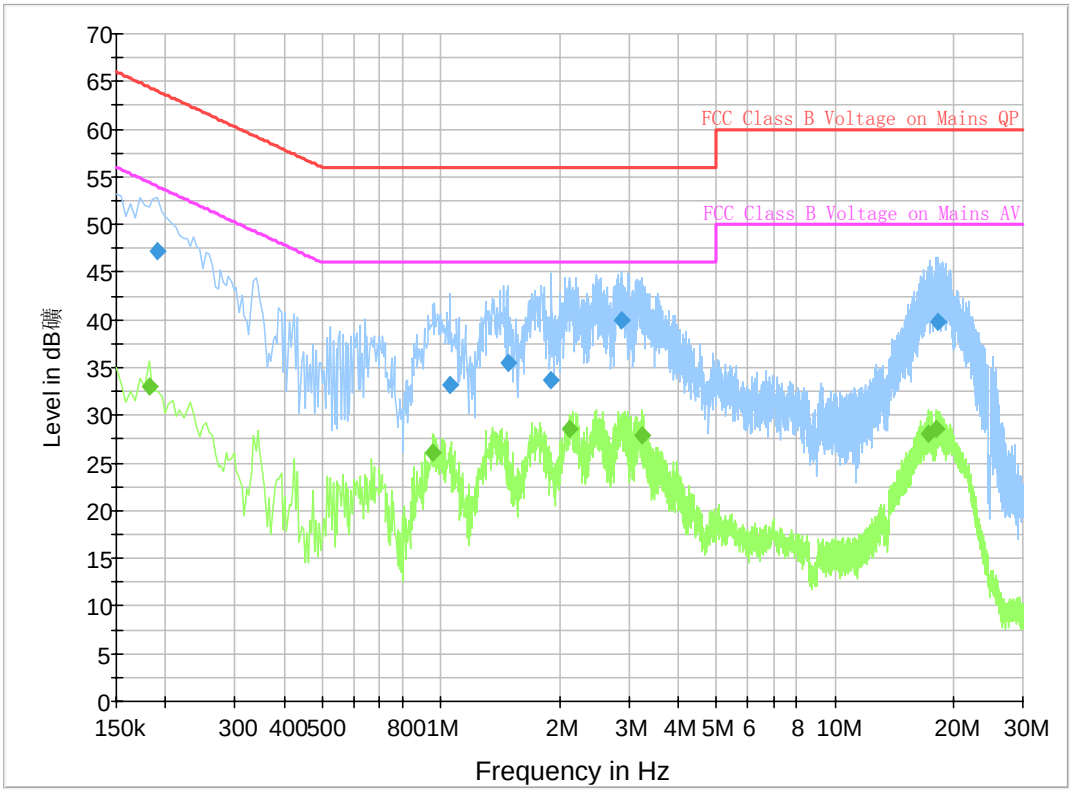
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	50.7	GND	L1	9.8	13.5	64.2
0.258000	44.7	GND	L1	9.8	16.8	61.5
1.419000	36.9	GND	L1	9.7	19.1	56.0
1.765500	37.4	GND	L1	9.7	18.6	56.0
2.499000	38.5	GND	L1	9.7	17.5	56.0
3.223500	38.9	GND	L1	9.7	17.1	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	35.4	GND	L1	9.8	19.0	54.4
0.343500	30.7	GND	L1	9.8	18.4	49.1
0.433500	26.2	GND	L1	9.8	21.0	47.2
0.964500	25.5	GND	L1	9.7	20.5	46.0
2.112000	27.9	GND	L1	9.7	18.1	46.0
2.917500	28.6	GND	L1	9.7	17.4	46.0

Camera



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190500	47.2	GND	N	9.8	16.8	64.0
1.054500	33.2	GND	N	9.7	22.8	56.0
1.477500	35.5	GND	L1	9.7	20.5	56.0
1.905000	33.7	GND	N	9.7	22.3	56.0
2.877000	40.0	GND	L1	9.7	16.0	56.0
18.172500	39.8	GND	L1	9.4	20.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	33.0	GND	L1	9.8	21.4	54.4
0.955500	26.1	GND	L1	9.7	19.9	46.0
2.121000	28.6	GND	L1	9.7	17.4	46.0
3.241500	27.9	GND	L1	9.7	18.1	46.0
17.308500	28.1	GND	L1	9.4	21.9	50.0
18.064500	28.5	GND	L1	9.4	21.5	50.0

A.4 FREQUENCY STABILITY

A.4.1 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, WCDMA Band V, and WCDMA BAND IV, 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℃ increments from -30℃ to +50℃. 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℃.
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 increments from +50℃ to -30℃. 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℃ during the measurement procedure.

A.4.2 Measurement Limit

A.4.2.1 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 4.35VDC, with a nominal voltage of 3.8VDC. 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. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.4.2.2 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. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

A.4.3 Measurement results

WCDMA Band Ⅱ

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-6	0.003
3.8	8	0.004
4.35	8	0.004

Frequency Error vs Temperature

temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	-10	0.005
-20	-5	0.003
-10	-5	0.002
0	10	0.005
10	6	0.003
20	-7	0.004
30	5	0.003
40	-7	0.004
50	-8	0.004

WCDMA Band Ⅴ

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	3	0.003
3.8	-8	0.010
4.35	-4	0.005

Frequency Error vs Temperature

temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	-7	0.008
-20	-10	0.012
-10	4	0.005
0	5	0.005
10	-4	0.005
20	5	0.006
30	-5	0.007
40	5	0.006
50	5	0.006

WCDMA Band IV

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	5	0.003
3.8	5	0.003
4.2	-7	0.004

Frequency Error vs Temperature

temperature(℃)	Frequency error(Hz)	Frequency error(ppm)
-30	9	0.005
-20	-6	0.003
-10	6	0.003
0	-5	0.003
10	7	0.004
20	12	0.007
30	5	0.003
40	9	0.005
50	-9	0.005

A.5 OCCUPIED BANDWIDTH

Reference

FCC: CFR Part 2.1049(h)(i)

A.5.1 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 v02r01 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.

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

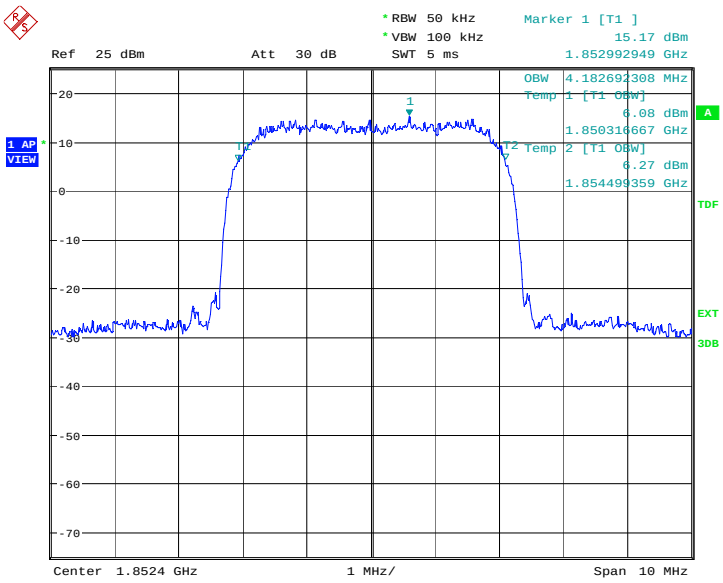
d) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

WCDMA Band II(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1852.4	4.183
1880.0	4.167
1907.6	4.167

WCDMA Band II

Channel 9262-Occupied Bandwidth (99% BW)



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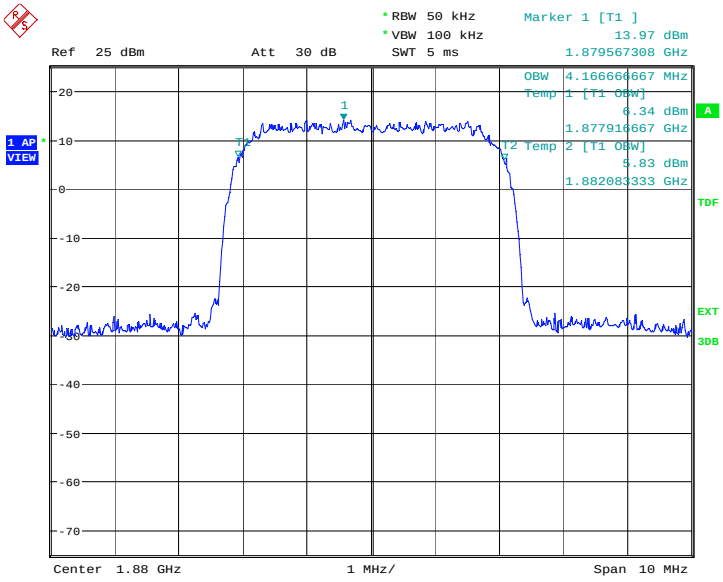
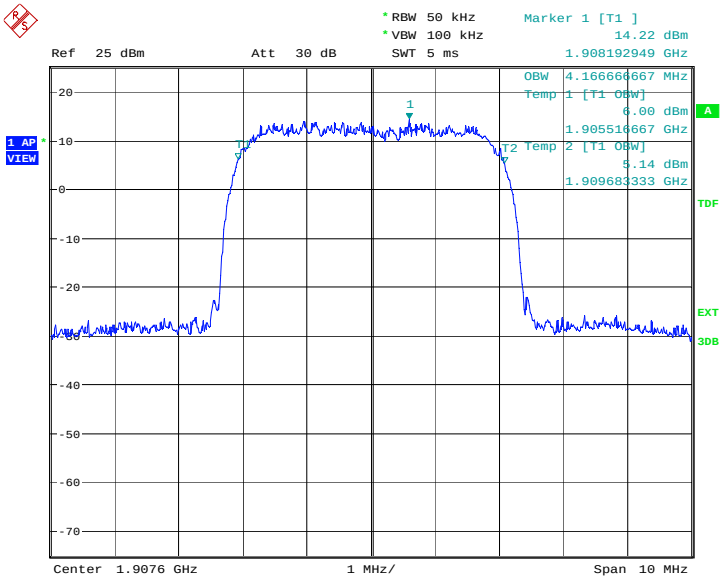
Channel 9400-Occupied Bandwidth (99% BW)



Date: 25.JUN.2014 10:03:56

Channel 9538-Occupied Bandwidth (99% BW)



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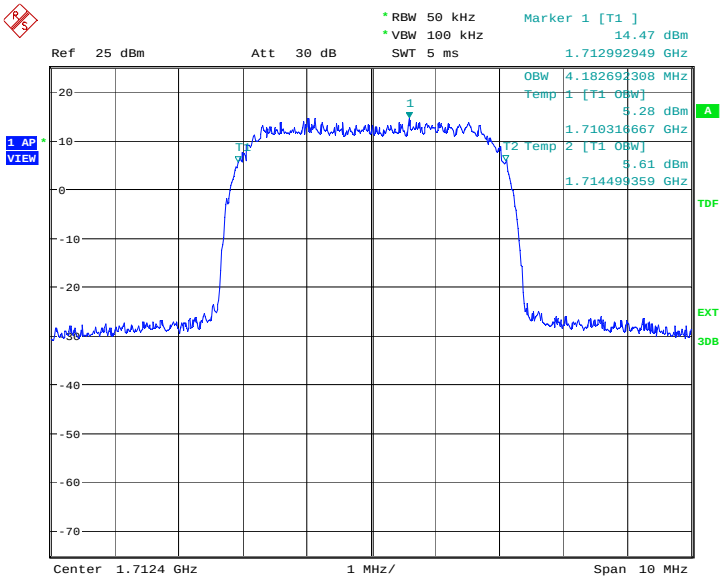
WCDMA Band IV(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1712.4	4.183
1740.0	4.183
1752.6	4.183

WCDMA Band IV

Channel 1312-Occupied Bandwidth (99% BW)



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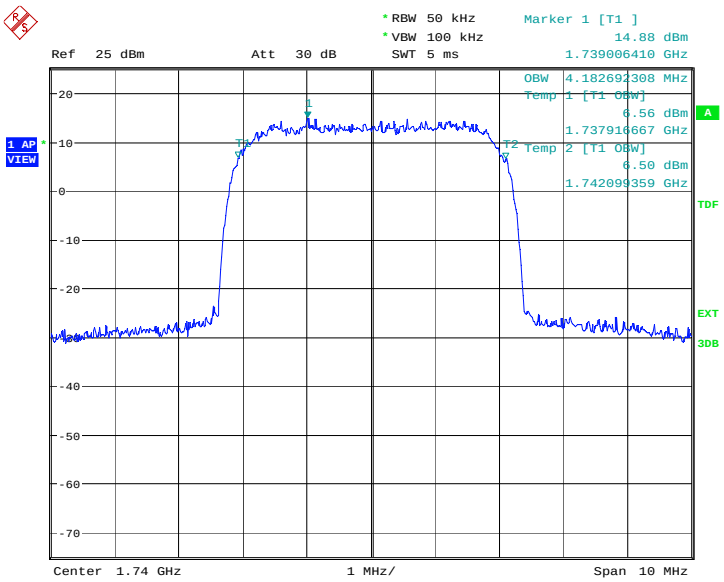
Channel 1450-Occupied Bandwidth (99% BW)



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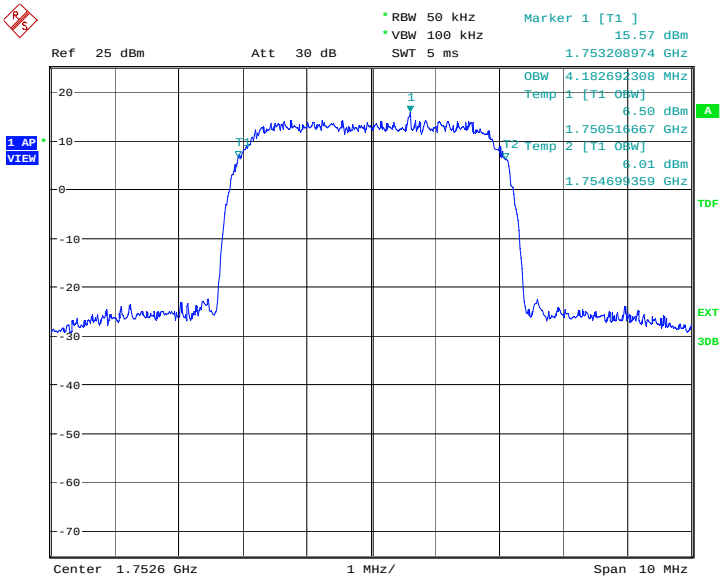
Channel 1513-Occupied Bandwidth (99% BW)



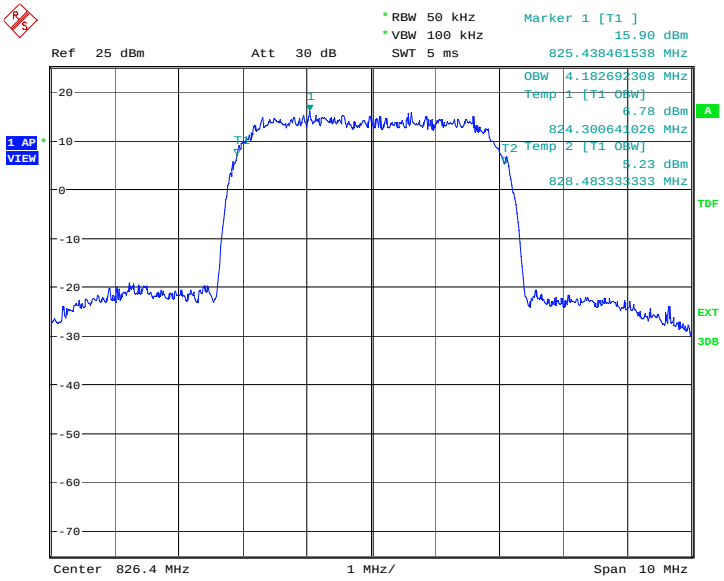
Date: 25.JUN.2014 11:00:05

WCDMA Band V(99% BW)

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

WCDMA Band V

Channel 4132-Occupied Bandwidth (99% BW)



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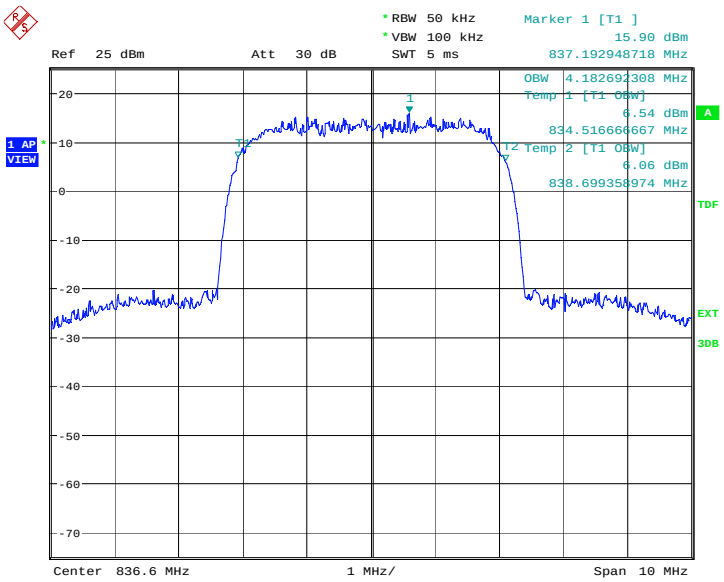
Channel 4183-Occupied Bandwidth (99% BW)



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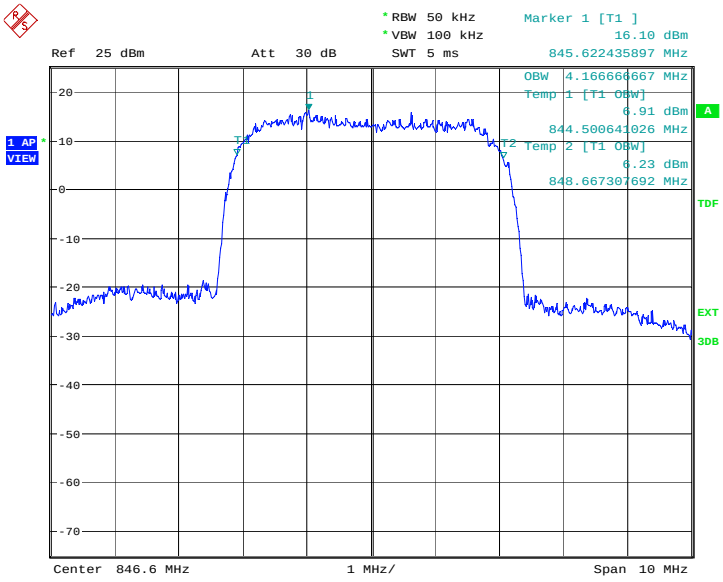
Channel 4233-Occupied Bandwidth (99% BW)



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A.6 EMISSION BANDWIDTH

Reference

FCC: CFR Part 22.917(b), 24.238(a), 27.53(h)

A.6.1Emission 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.

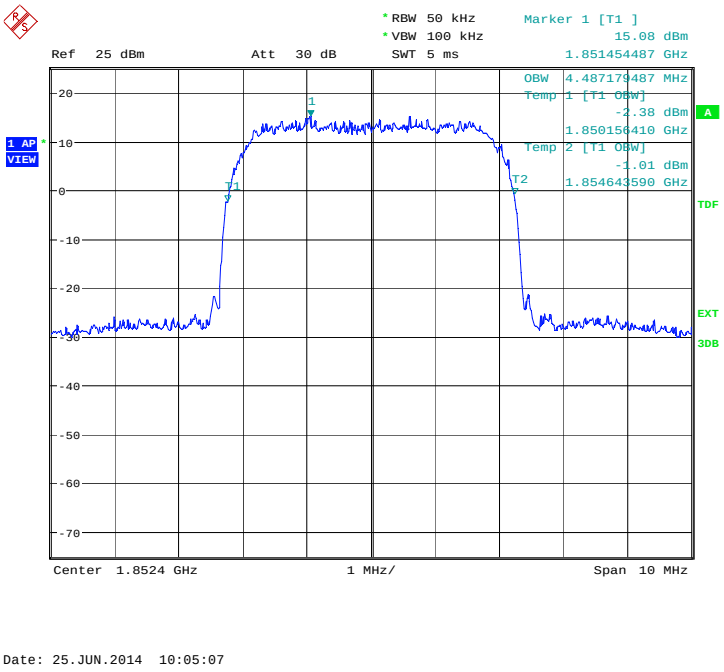
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies. Table below lists the measured 100% BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band II(100% BW)

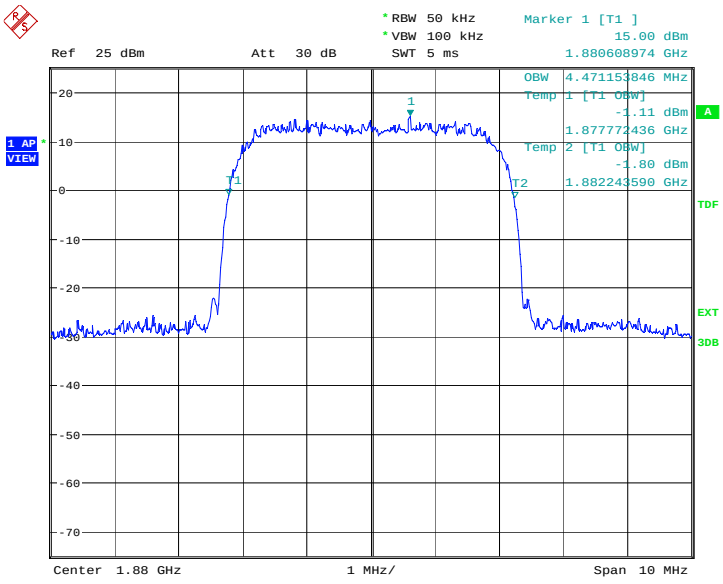
Frequency(MHz)	Emission Bandwidth (100% BW)(MHz)
1852.4	4.487
1880.0	4.471
1907.6	4.503

WCDMA Band II

Channel 9262-Emission Bandwidth (100% BW)

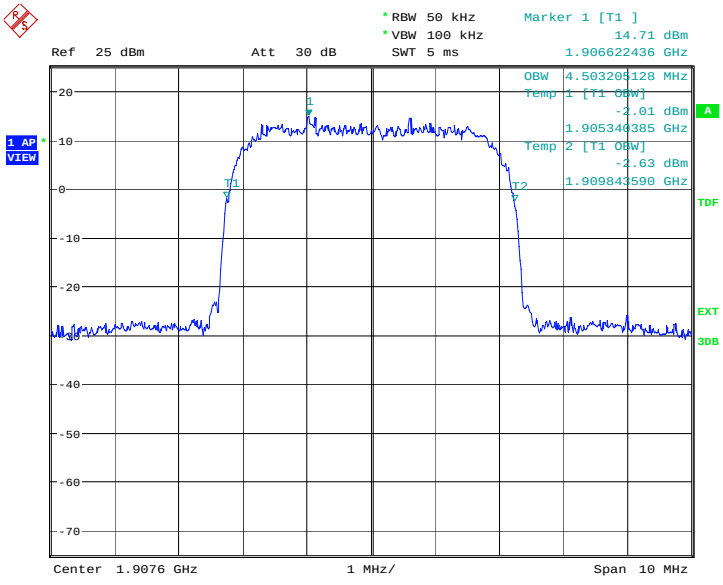


Channel 9400-Emission Bandwidth (100% BW)



Date: 25.JUN.2014 10:05:41

Channel 9538-Emission Bandwidth (100% BW)



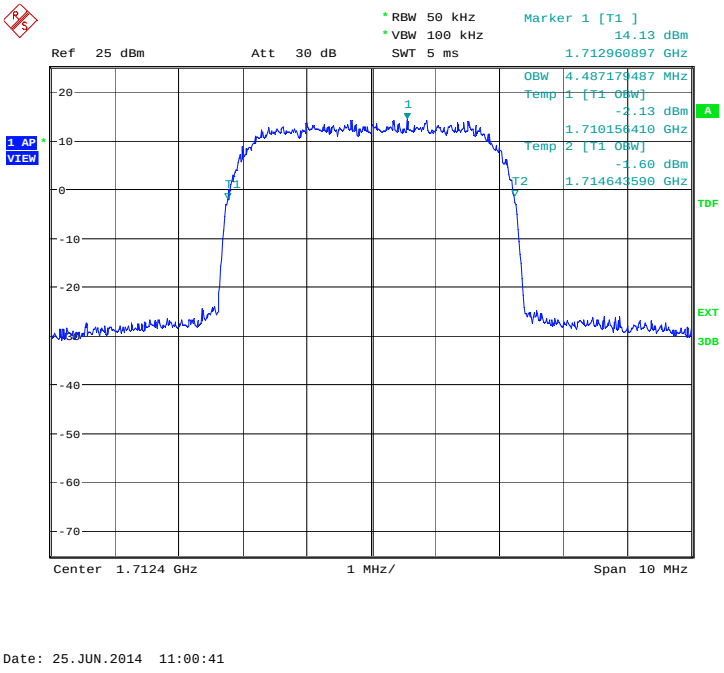
Date: 25.JUN.2014 10:06:16

WCDMA Band IV(100% BW)

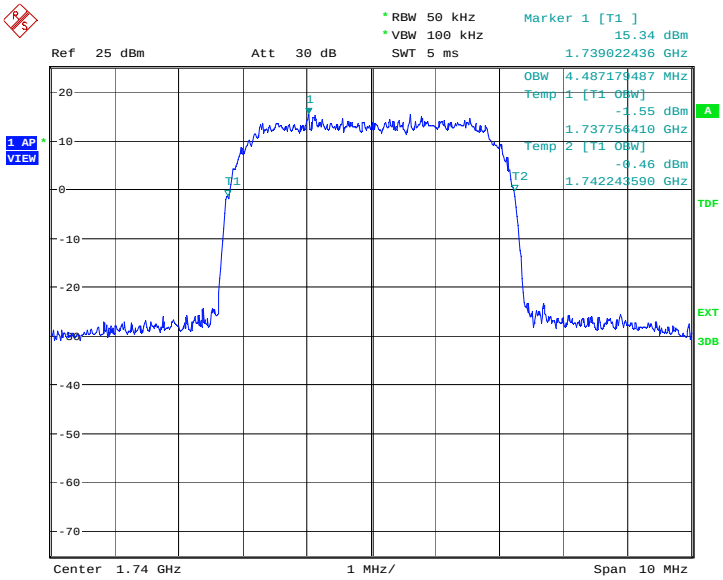
Frequency(MHz)	Emission Bandwidth (100% BW)(MHz)
1712.4	4.487
1740	4.487
1752.6	4.519

WCDMA Band IV

Channel 1312-Emission Bandwidth (100% BW)

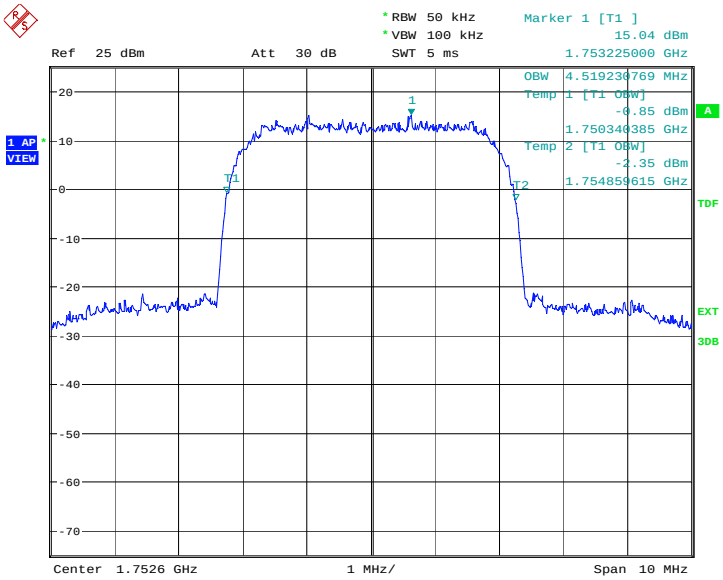


Channel 1450-Emission Bandwidth (100% BW)



Date: 25.JUN.2014 11:01:16

Channel 1513-Emission Bandwidth (100% BW)



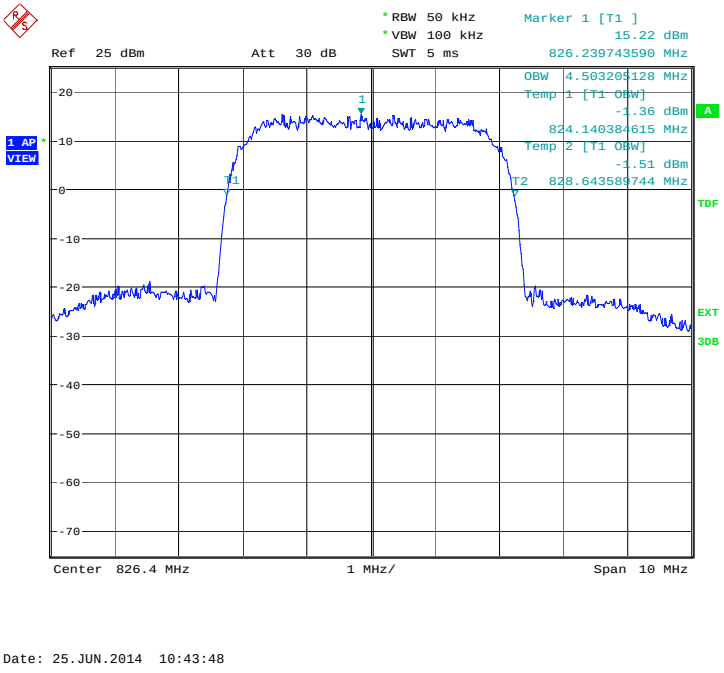
Date: 25.JUN.2014 11:01:50

WCDMA Band V(100% BW)

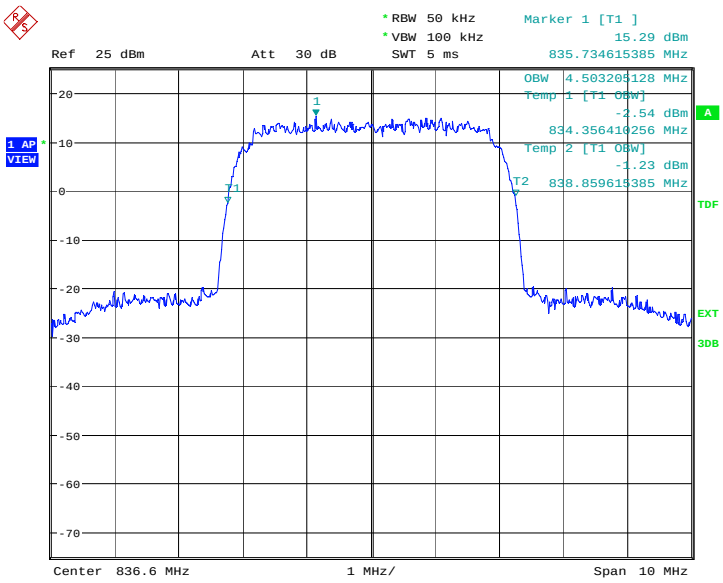
Frequency(MHz)	Emission Bandwidth (100% BW)(MHz)
826.40	4.503
836.60	4.503
846.60	4.503

WCDMA Band V

Channel 4132-Emission Bandwidth (100% BW)

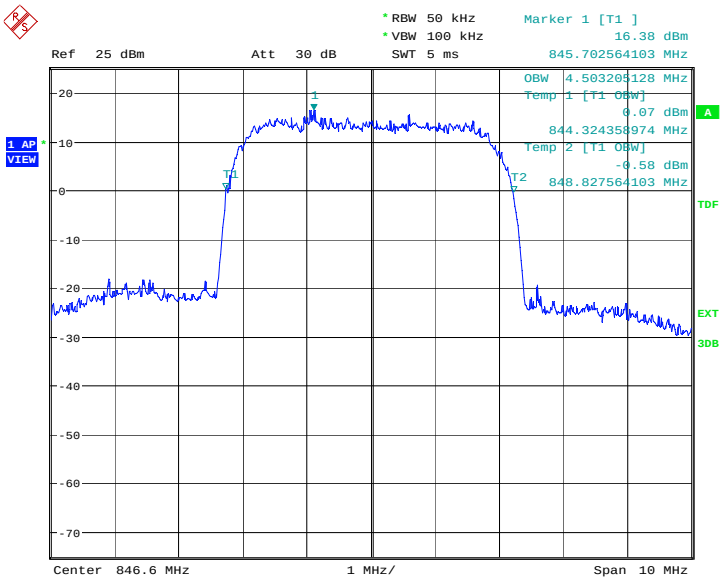


Channel 4183-Emission Bandwidth (100% BW)



Date: 25.JUN.2014 10:44:23

Channel 4233-Emission Bandwidth (100% BW)



Date: 25.JUN.2014 10:44:57

A.7 BAND EDGE COMPLIANCE

Reference

FCC: CFR Part 22.917(b), 24.238(a), 27.53(h).

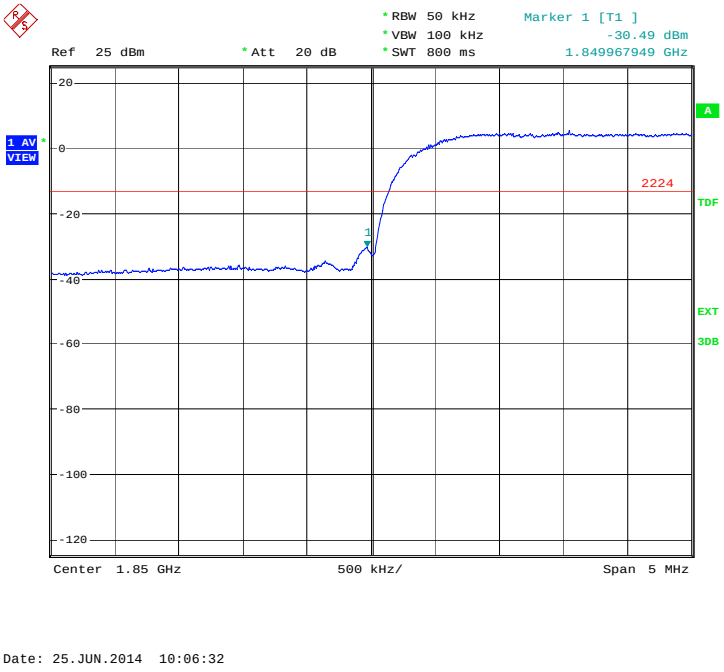
A.7.1 Measurement limit

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 v02r01 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.

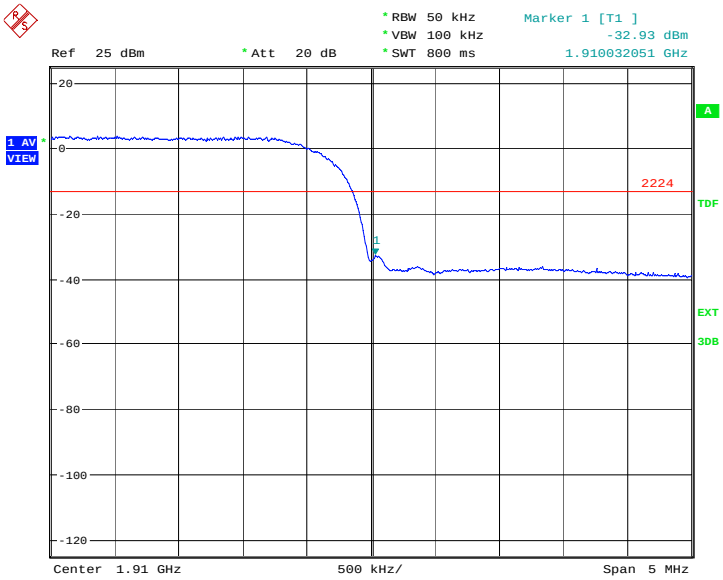
A.7.2 Measurement result

WCDMA Band Ⅱ

LOW BAND EDGE BLOCK-A (WCDMA Band Ⅱ)-Channel 9262



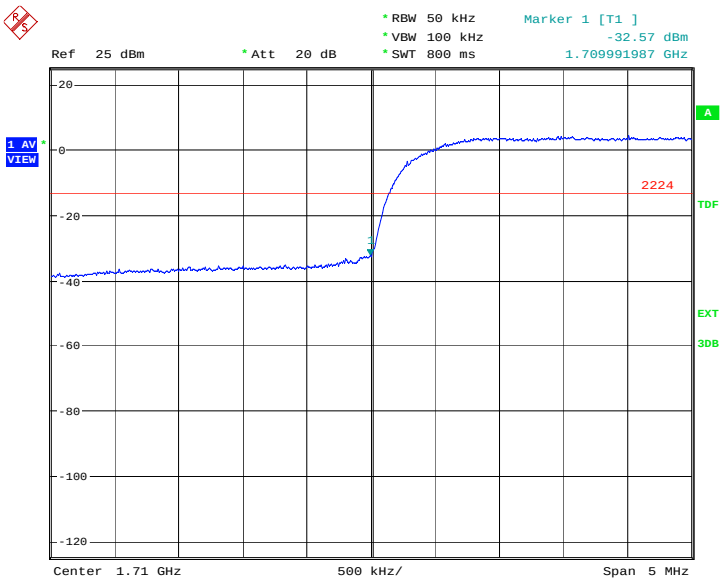
HIGH BAND EDGE BLOCK-C (WCDMA Band Ⅱ) –Channel 9538



Date: 25.JUN.2014 10:06:48

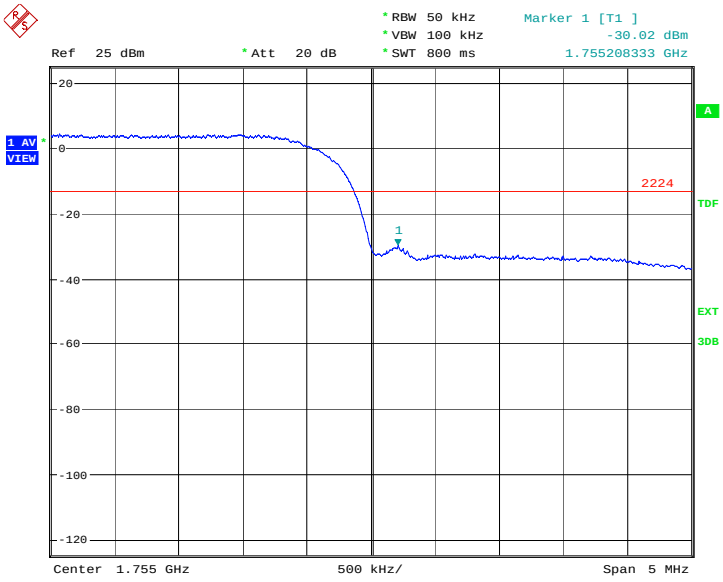
WCDMA Band IV

LOW BAND EDGE BLOCK-A (WCDMA Band IV)-Channel 1312



Date: 25.JUN.2014 11:02:07

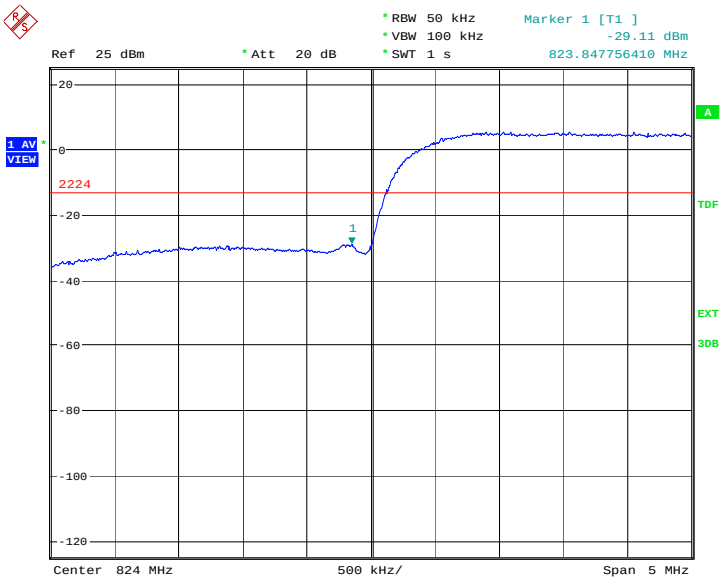
HIGH BAND EDGE BLOCK-C (WCDMA Band IV) –Channel 1513



Date: 25.JUN.2014 11:02:23

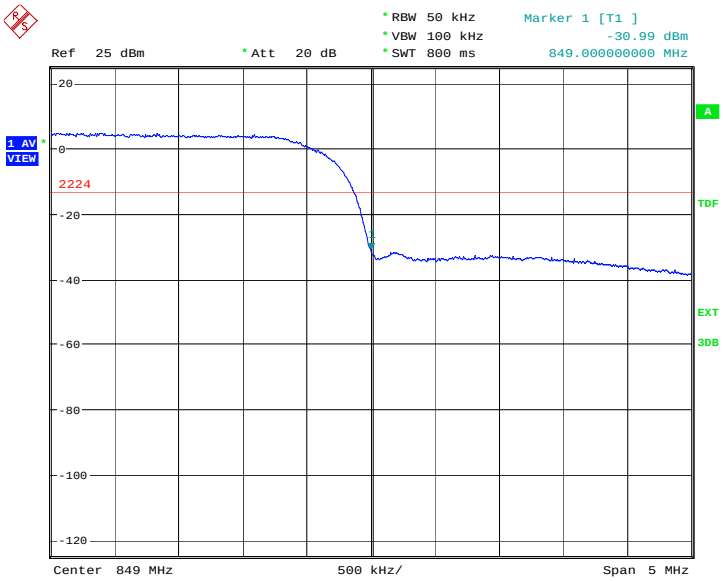
WCDMA Band Ⅴ

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



Date: 25.JUN.2014 10:45:14

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



Date: 25.JUN.2014 10:45:30

A.8 CONDUCTED SPURIOUS EMISSION

Reference

FCC: CFR Part 2.1057, 22.917, 24.238, 27.53(h).

A.8.1 Measurement Method

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

1. 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 v02r01 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 IV Transmitter

Channel	Frequency (MHz)
1312	1712.40
1450	1740.00
1513	1752.60

WCDMA Band Ⅴ Transmitter

Channel	Frequency (MHz)
4132	826.40
4183	836.60
4233	846.60

A. 8.2 Measurement Limit

Part 24.238, Part 22.917 and Part 27.53(h) 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.

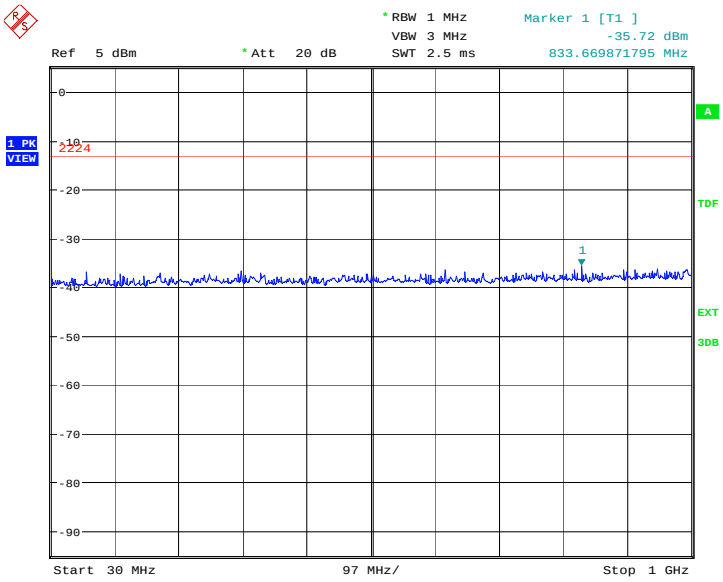
The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. 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.8.3 Measurement result

WCDMA Band Ⅱ

Channel 9262: 30MHz –1GHz

Spurious emission limit –13dBm.

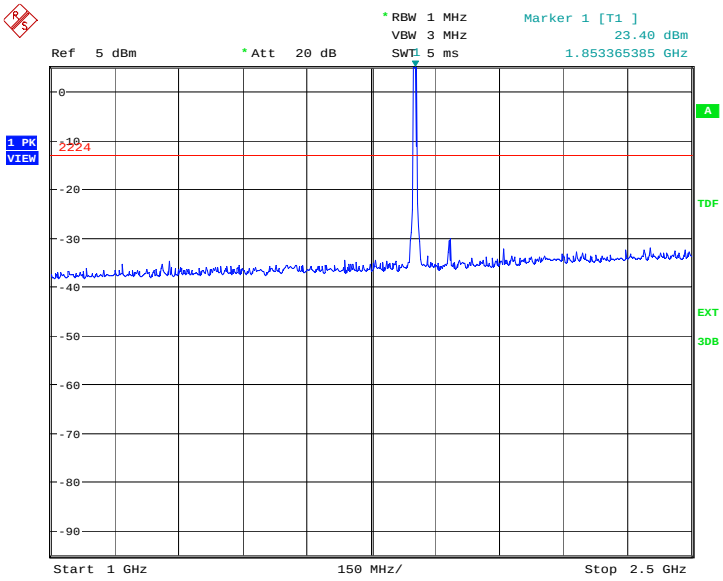


Date: 25.JUN.2014 10:07:19

Channel 9262: 1GHz –2.5GHz

Spurious emission limit –13dBm.

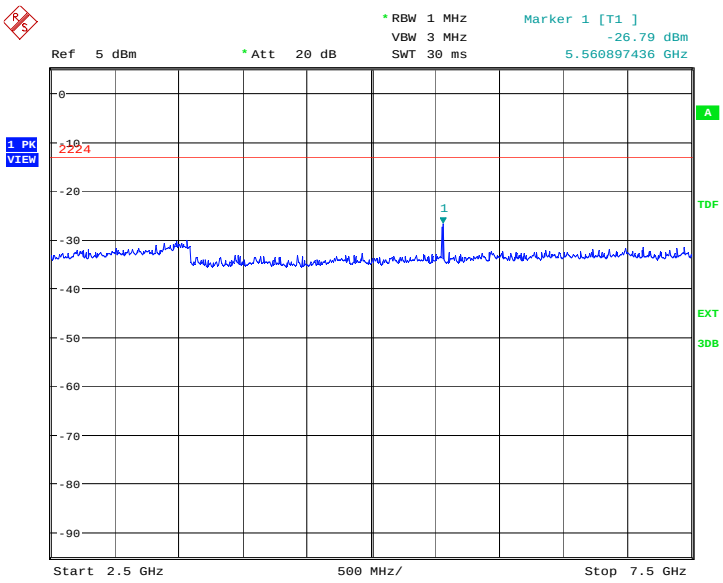
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:07:47

Channel 9262: 2.5GHz –7.5GHz

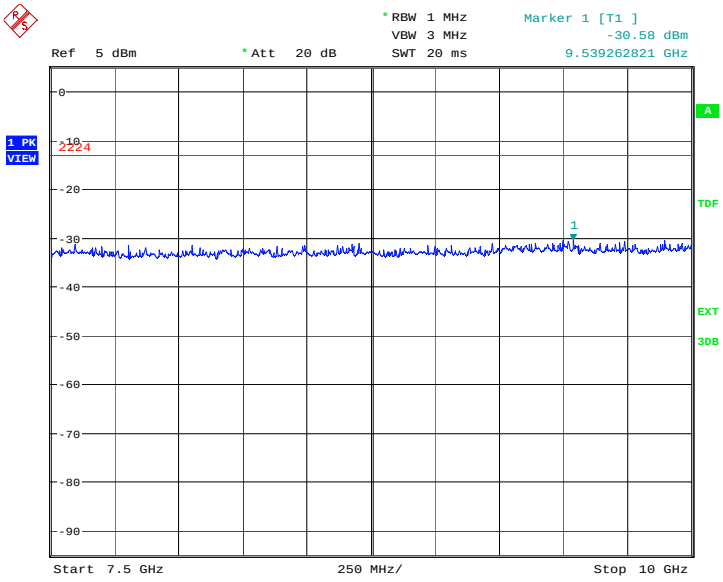
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:08:15

Channel 9262: 7.5GHz –10GHz

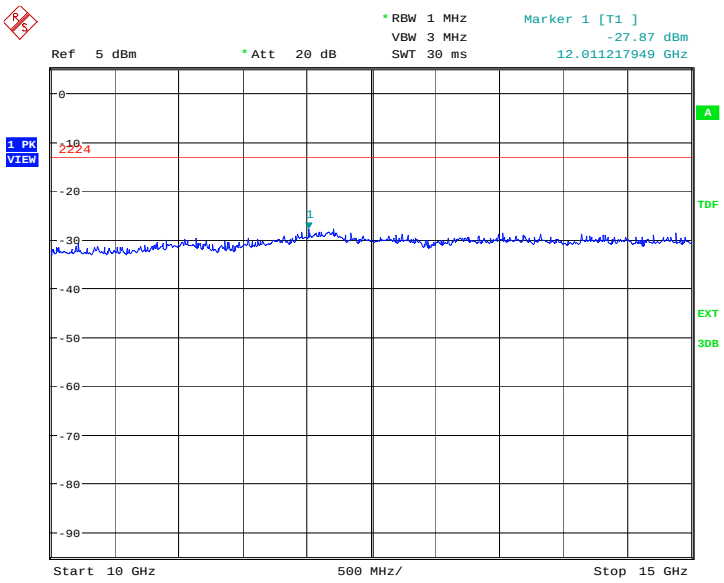
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:08:43

Channel 9262: 10GHz –15GHz

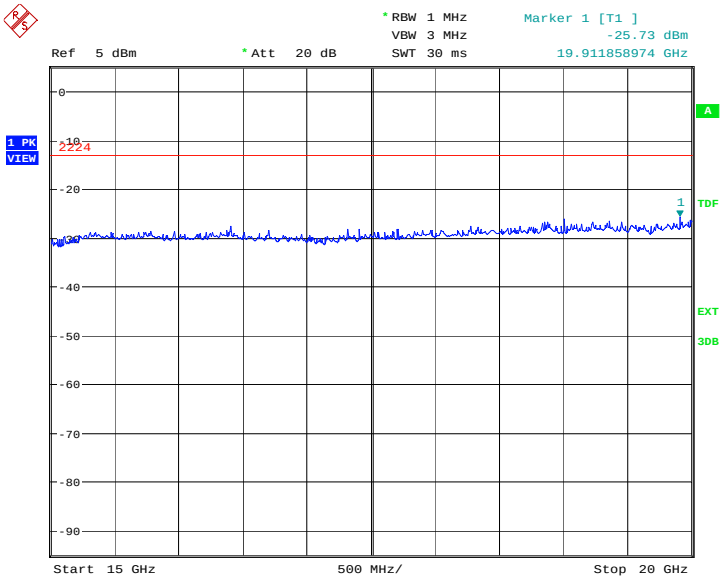
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:09:12

Channel 9262: 15GHz –20GHz

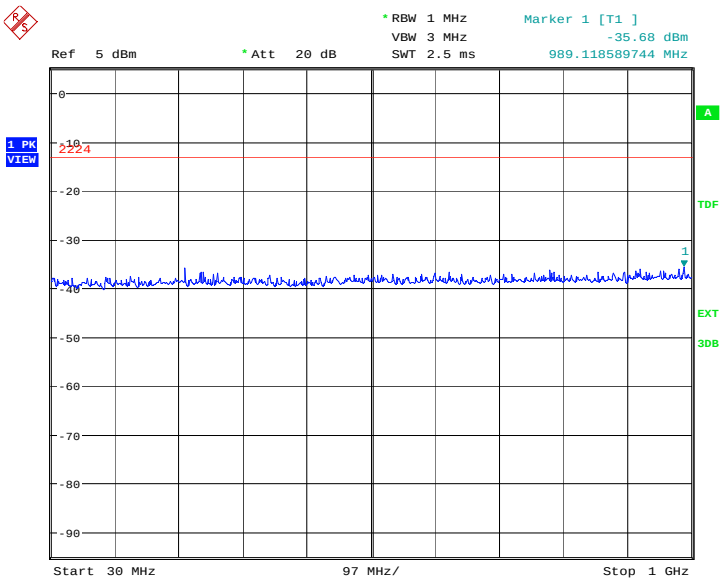
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:09:40

Channel 9400: 30MHz –1GHz

Spurious emission limit –13dBm.

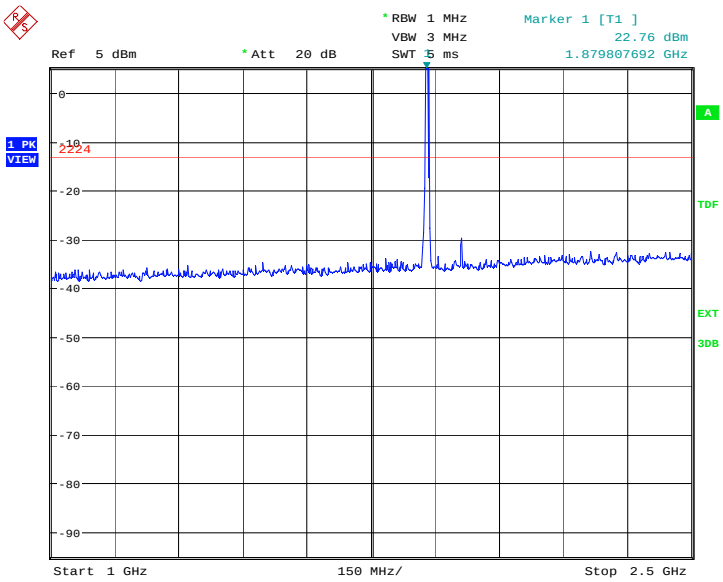


Date: 25.JUN.2014 10:10:11

Channel 9400: 1GHz –2.5GHz

Spurious emission limit –13dBm.

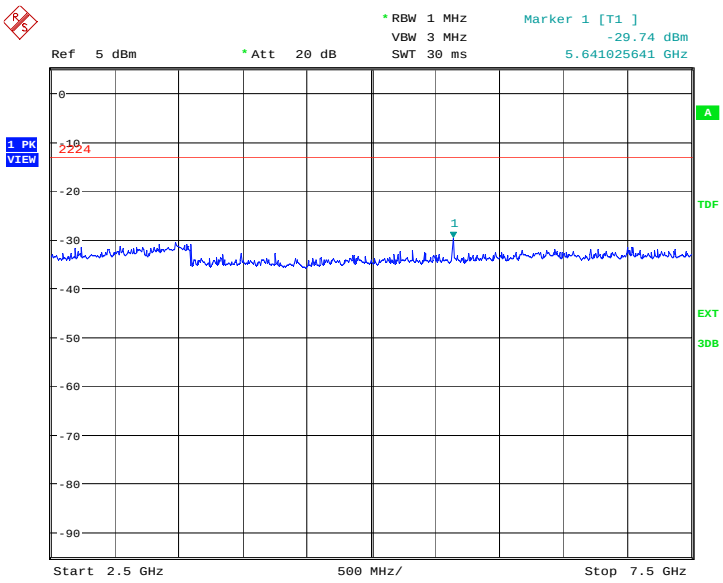
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:10:39

Channel 9400: 2.5GHz –7.5GHz

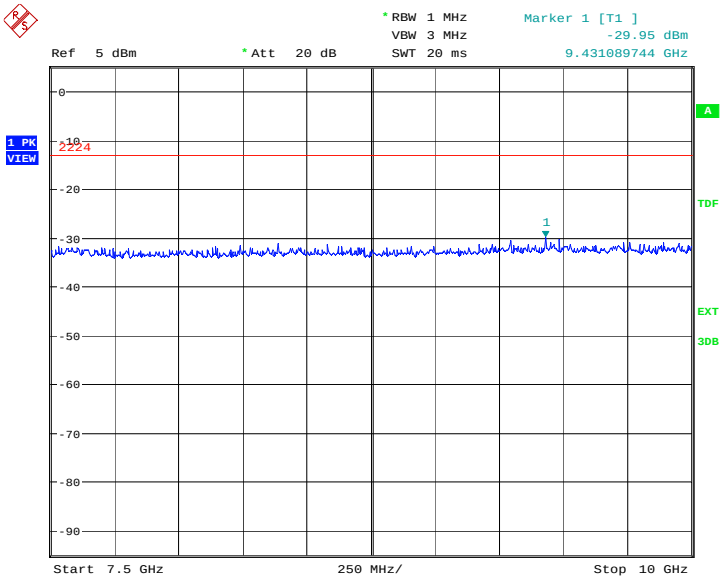
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:11:07

Channel 9400: 7.5GHz –10GHz

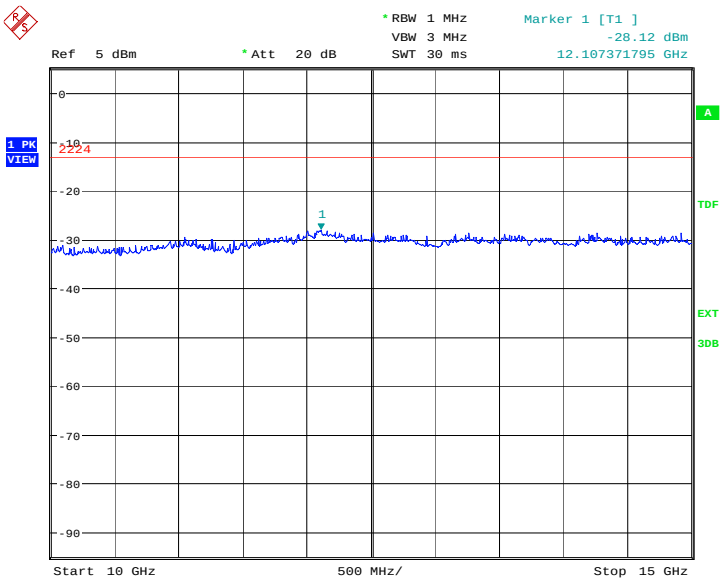
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:11:35

Channel 9400: 10GHz –15GHz

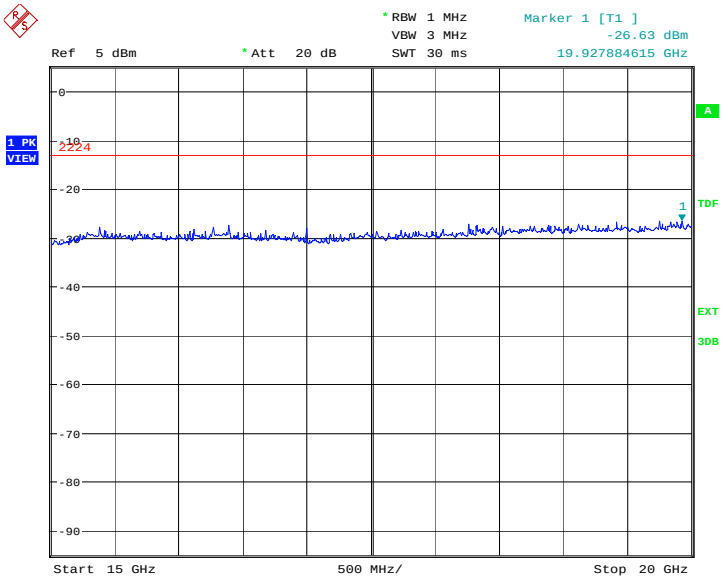
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:12:03

Channel 9400: 15GHz –20GHz

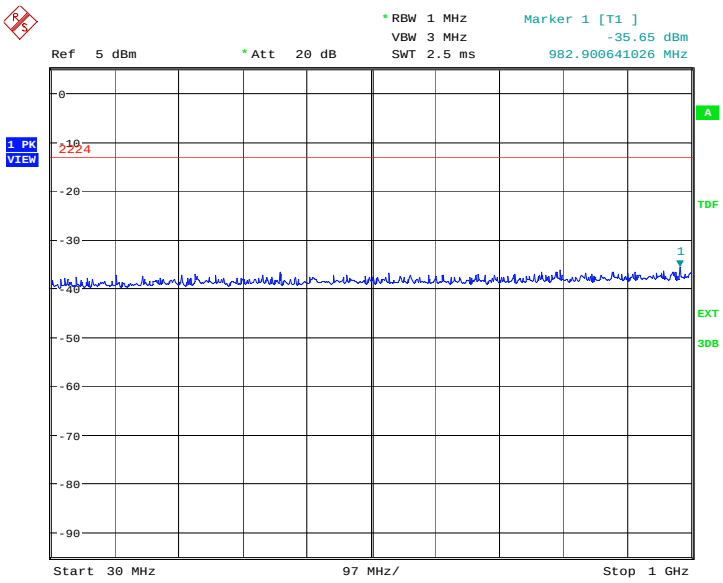
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:12:32

Channel 9538: 30MHz –1GHz

Spurious emission limit –13dBm.

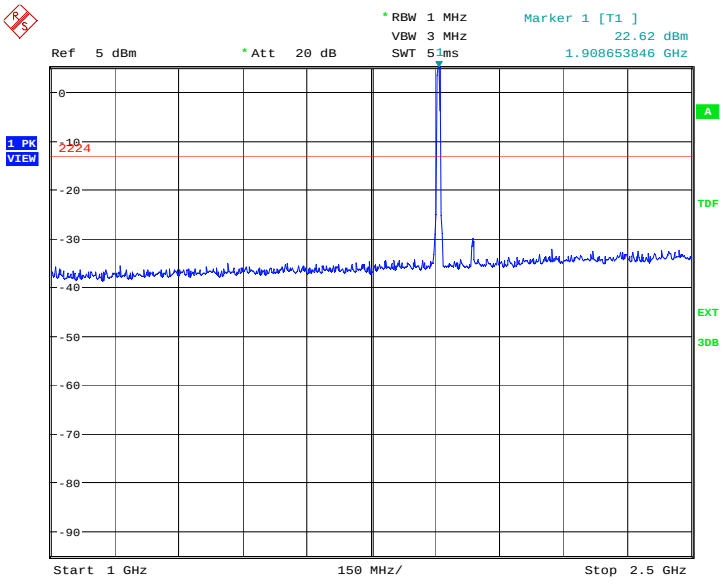


Date: 25.JUN.2014 10:13:03

Channel 9538: 1GHz –2.5GHz

Spurious emission limit –13dBm.

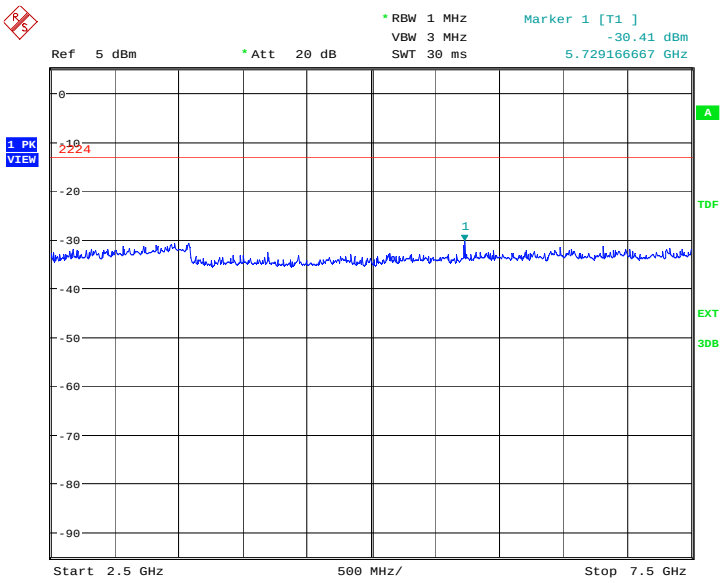
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:13:31

Channel 9538: 2.5GHz –7.5GHz

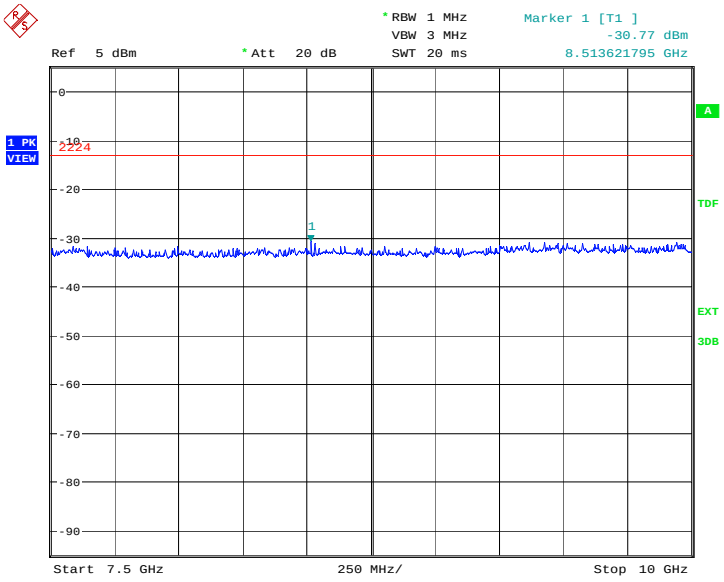
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:13:59

Channel 9538: 7.5GHz –10GHz

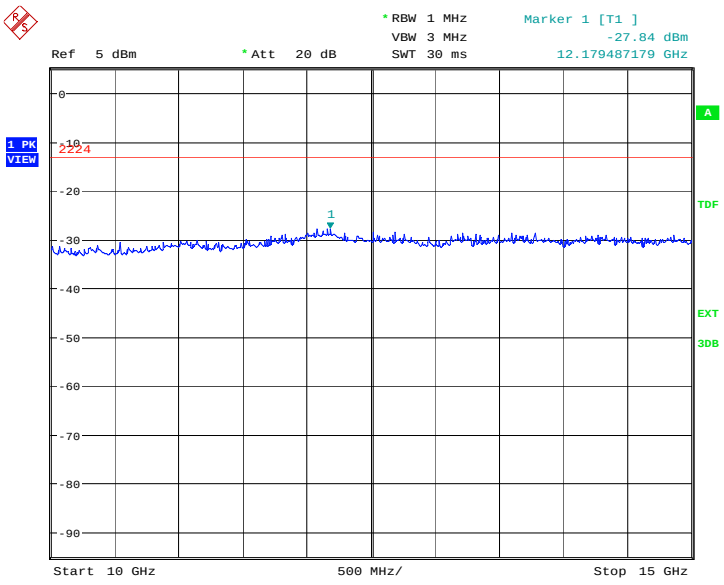
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:14:27

Channel 9538: 10GHz –15GHz

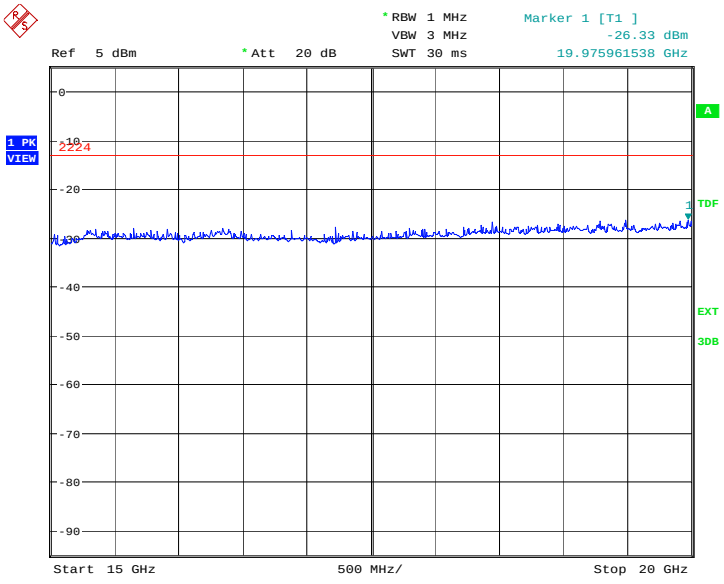
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:14:55

Channel 9538: 15GHz –20GHz

Spurious emission limit –13dBm.

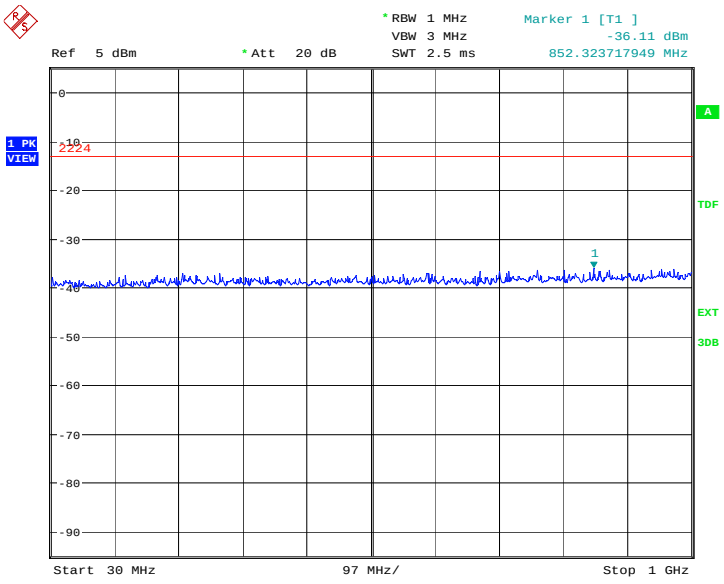


Date: 25.JUN.2014 10:15:23

WCDMA Band IV

Channel 1312: 30MHz –1GHz

Spurious emission limit –13dBm.

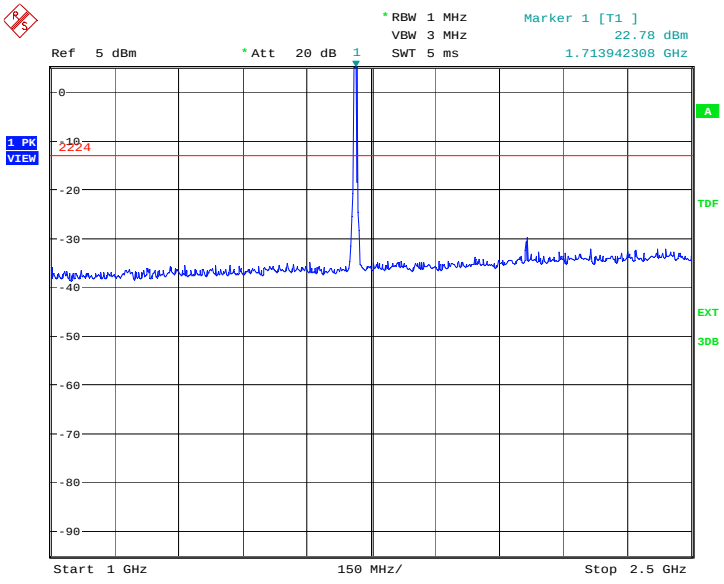


Date: 25.JUN.2014 14:43:16

Channel 1312: 1GHz –2.5GHz

Spurious emission limit –13dBm.

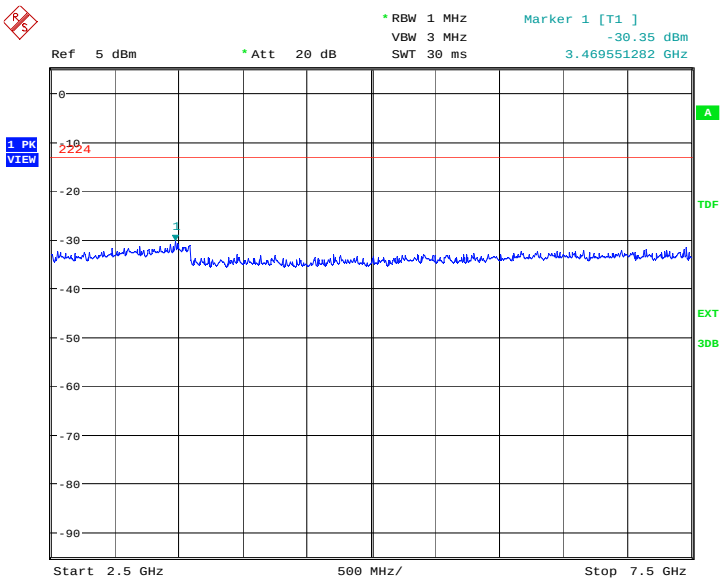
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 14:43:45

Channel 1312: 2.5GHz –7.5GHz

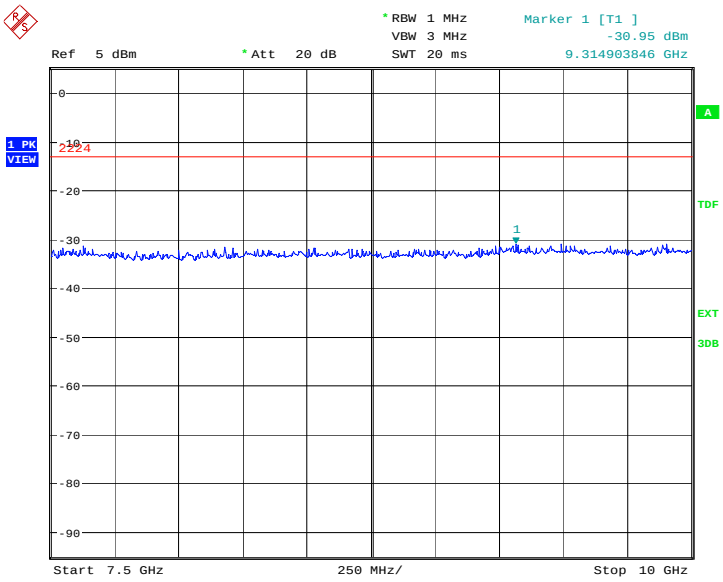
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:44:13

Channel 1312: 7.5GHz –10GHz

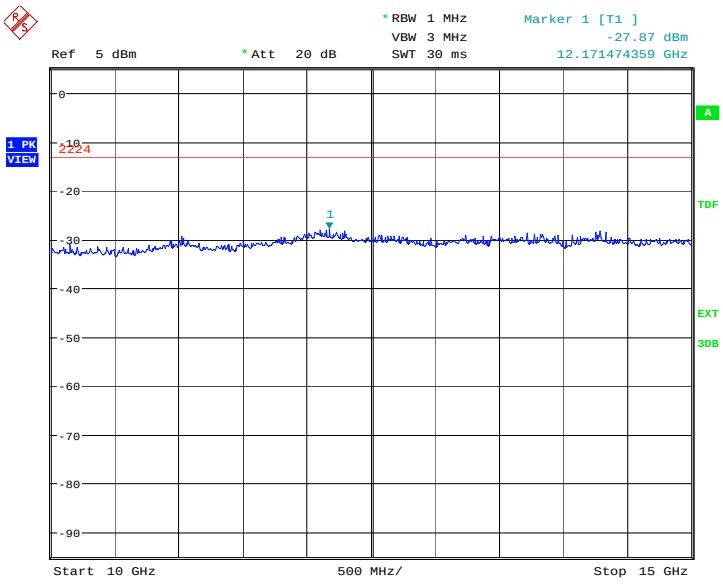
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:44:41

Channel 1312: 10GHz –15GHz

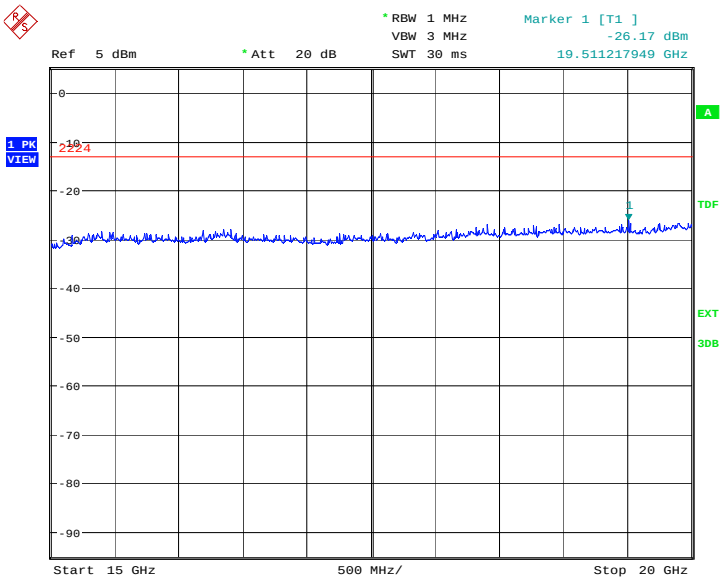
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:45:09

Channel 1312: 15GHz –20GHz

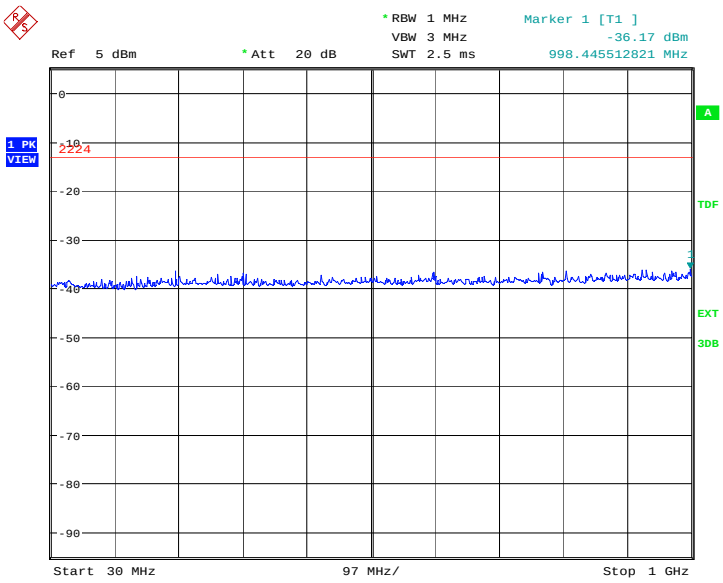
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:45:37

Channel 1450: 30MHz –1GHz

Spurious emission limit –13dBm.

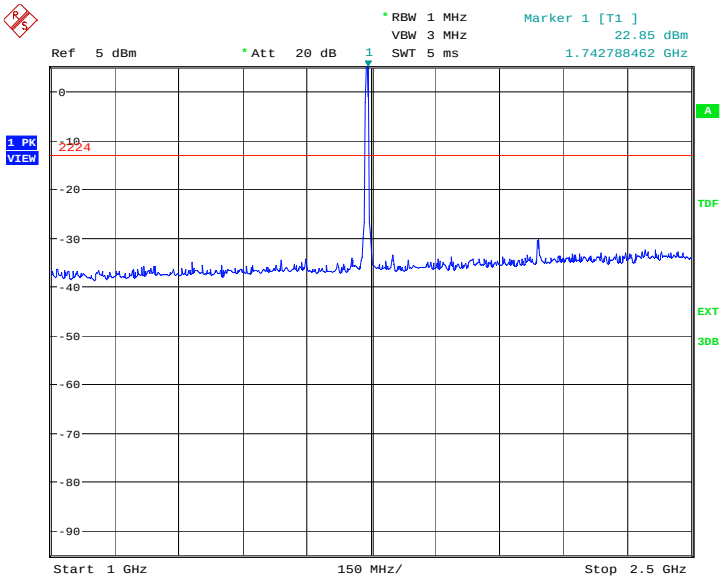


Date: 25.JUN.2014 14:46:08

Channel 1450: 1GHz –2.5GHz

Spurious emission limit –13dBm.

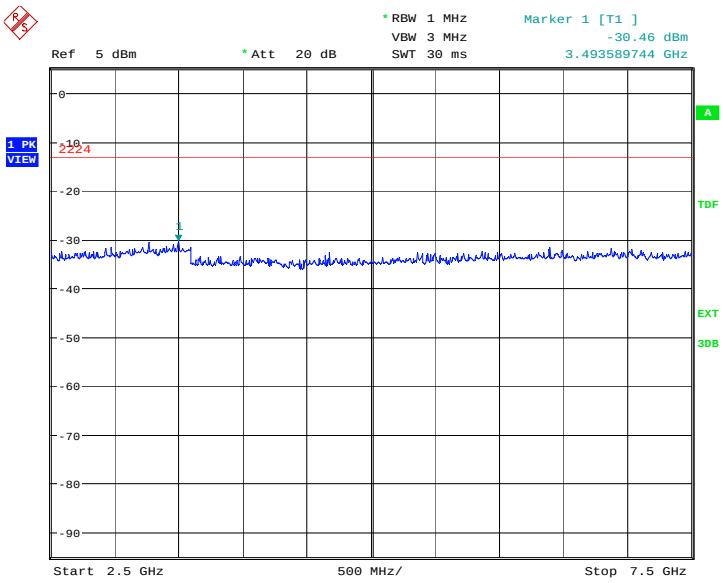
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 14:46:37

Channel 1450: 2.5GHz –7.5GHz

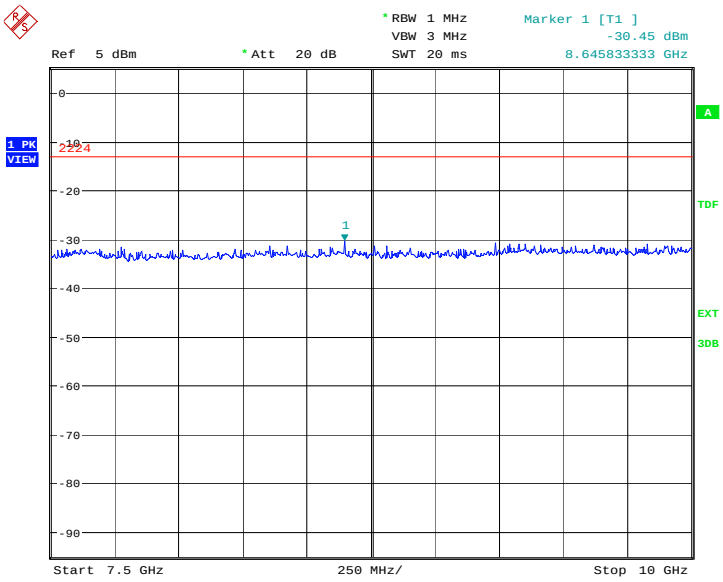
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:47:05

Channel 1450: 7.5GHz –10GHz

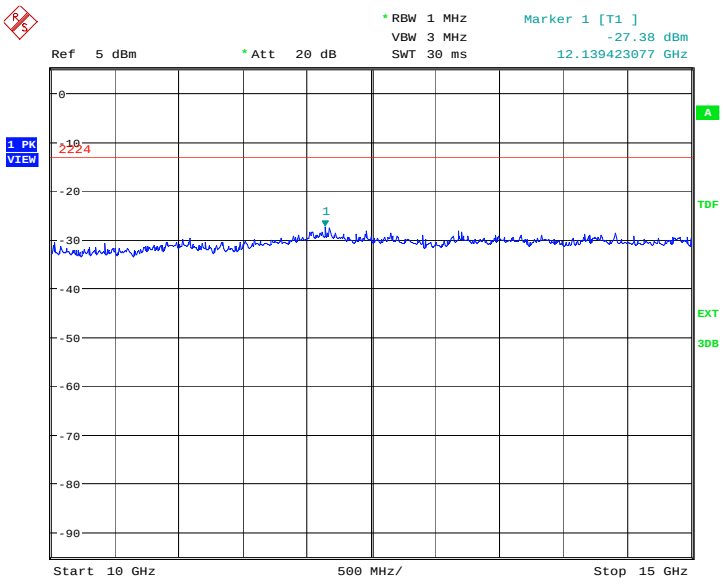
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:47:33

Channel 1450: 10GHz –15GHz

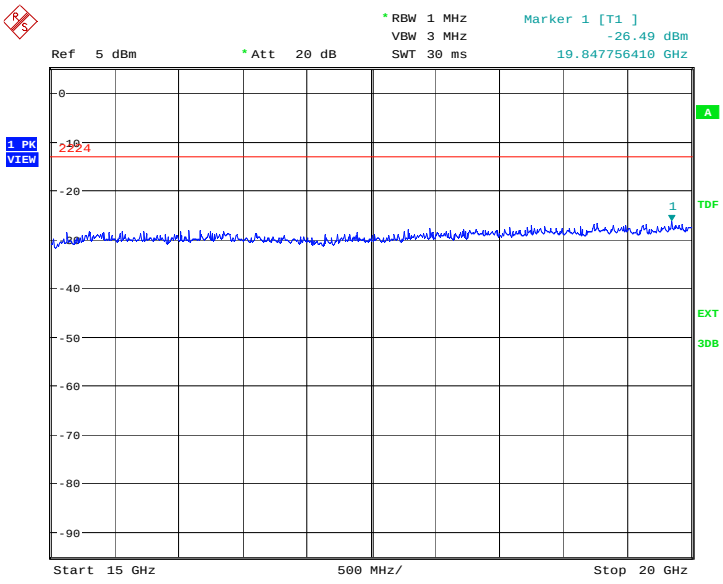
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:48:01

Channel 1450: 15GHz –20GHz

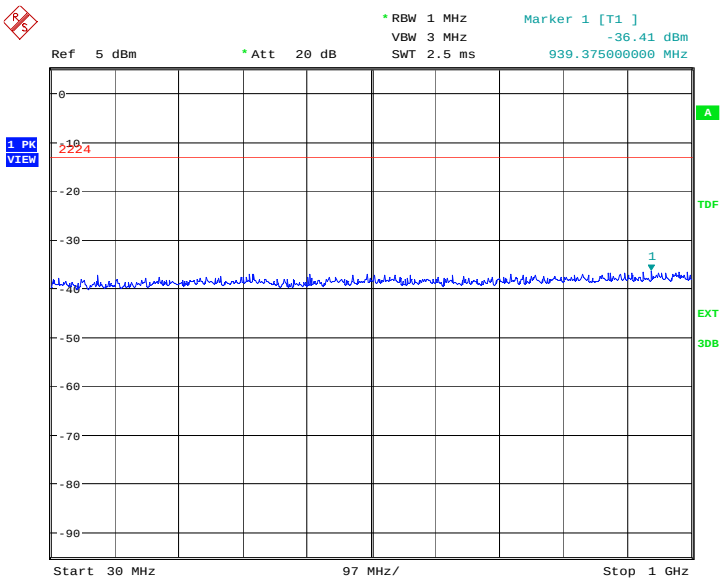
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:48:29

Channel 1513: 30MHz –1GHz

Spurious emission limit –13dBm.

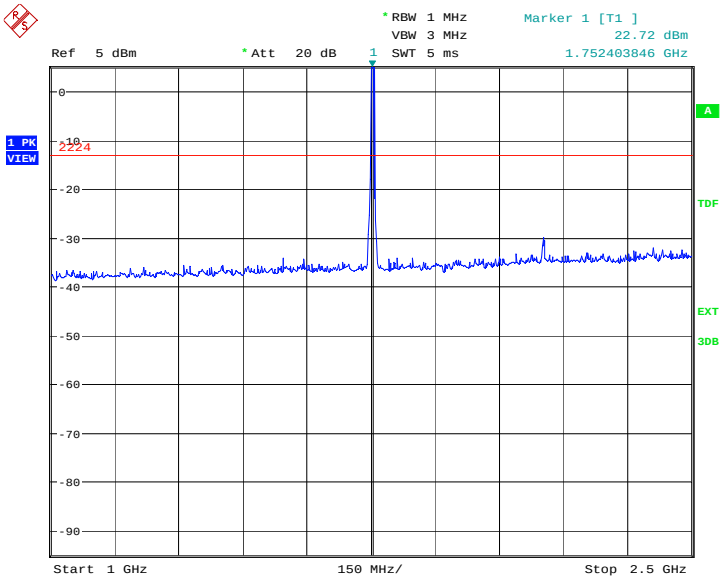


Date: 25.JUN.2014 14:49:00

Channel 1513: 1GHz –2.5GHz

Spurious emission limit –13dBm.

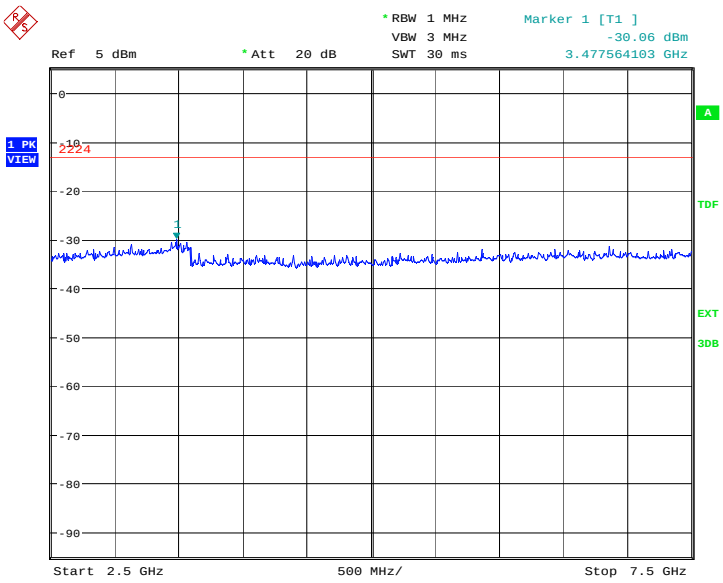
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 14:49:28

Channel 1513: 2.5GHz –7.5GHz

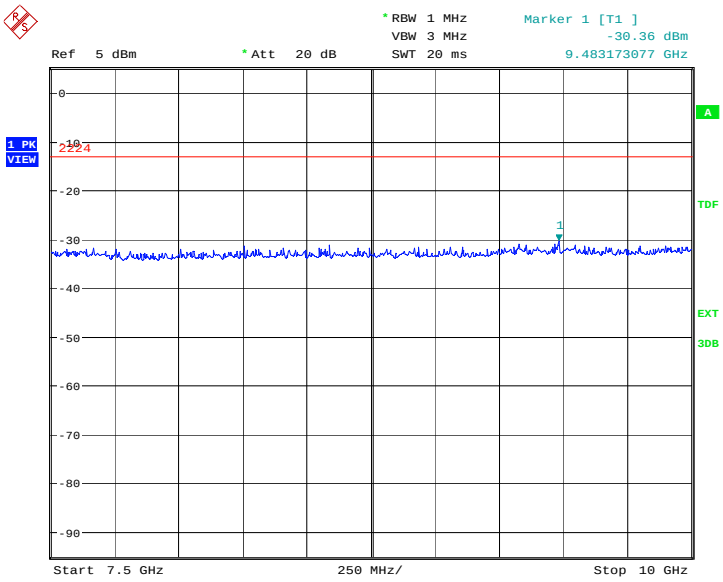
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:49:56

Channel 1513: 7.5GHz –10GHz

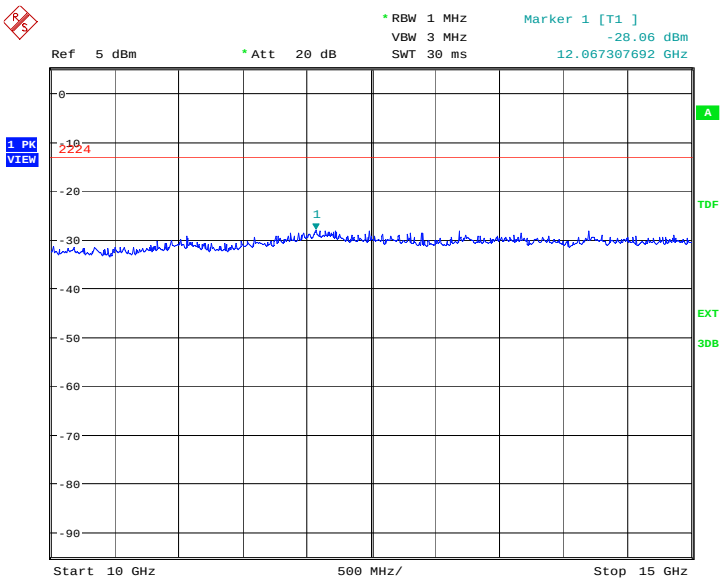
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:50:25

Channel 1513: 10GHz –15GHz

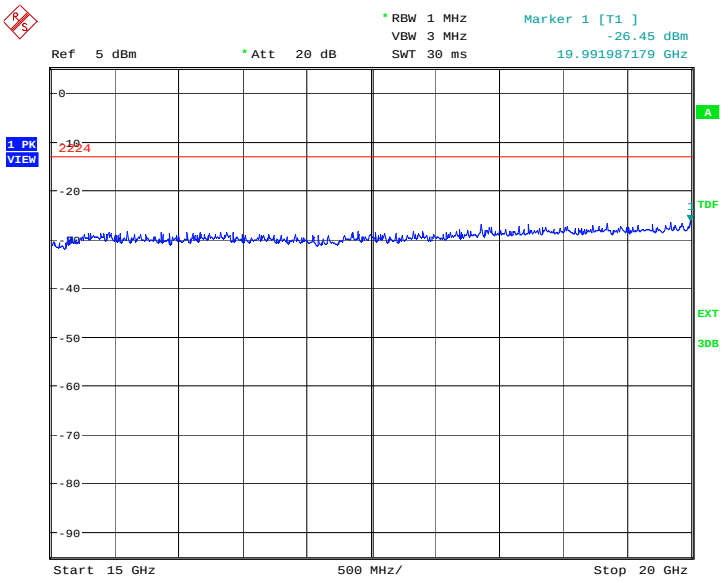
Spurious emission limit –13dBm.



Date: 25.JUN.2014 14:50:53

Channel 1513: 15GHz –20GHz

Spurious emission limit –13dBm.



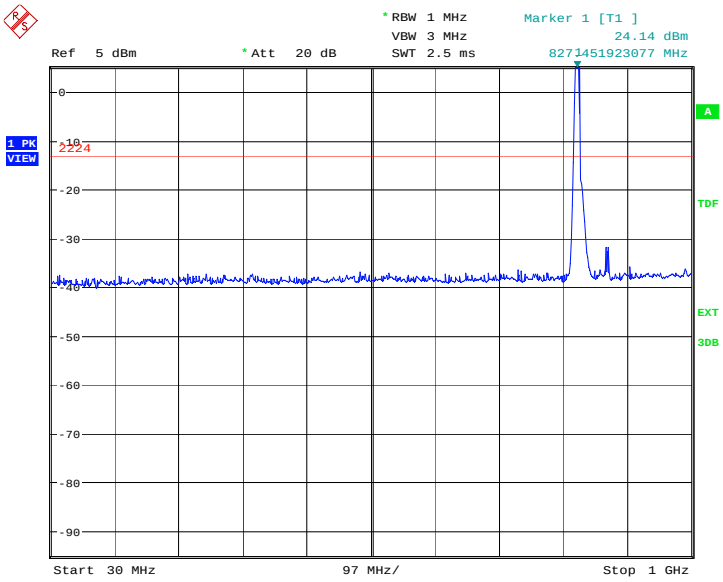
Date: 25.JUN.2014 14:51:21

WCDMA Band Ⅴ

Channel 4132: 30MHz –1GHz

Spurious emission limit –13dBm.

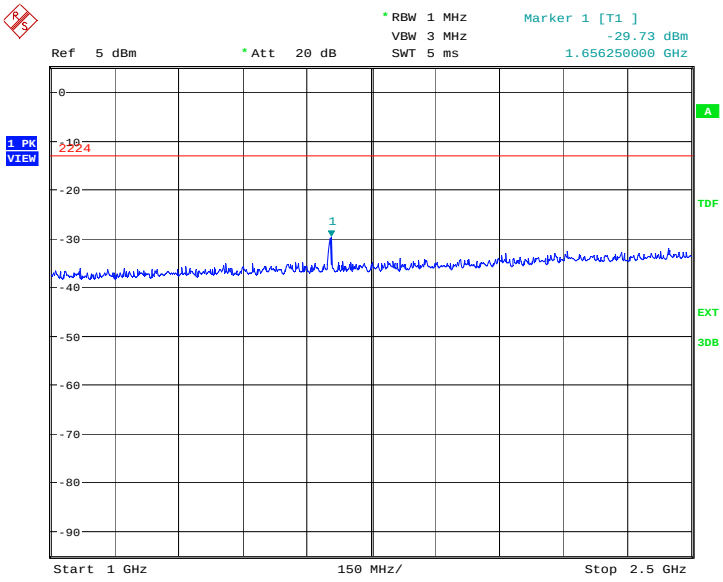
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:46:01

Channel 4132: 1GHz – 2.5GHz

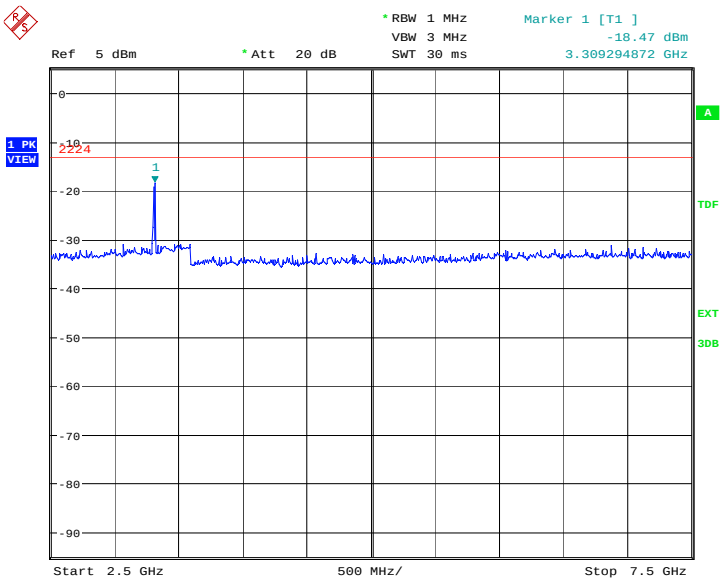
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:46:29

Channel 4132: 2.5GHz –7.5GHz

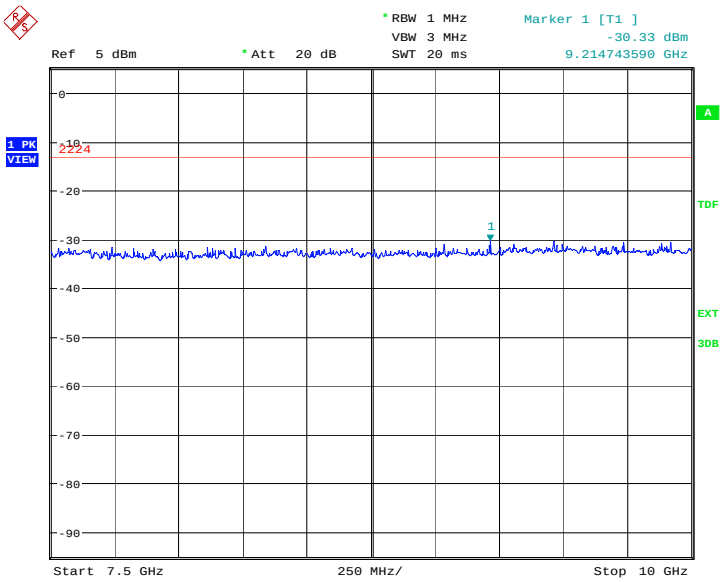
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:46:57

Channel 4132: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

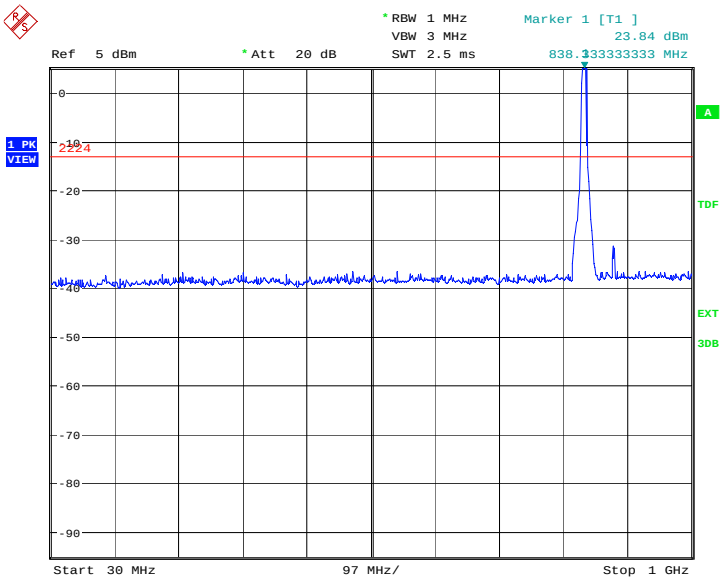


Date: 25.JUN.2014 10:47:25

Channel 4183: 30MHz –1GHz

Spurious emission limit –13dBm.

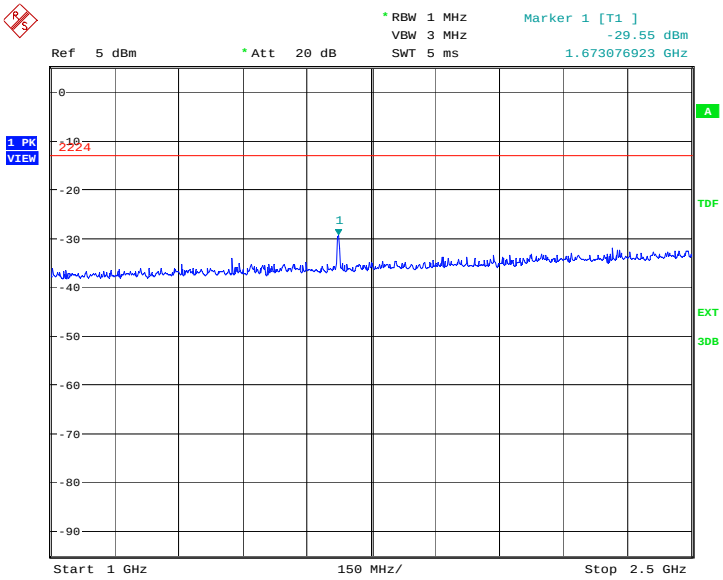
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:47:56

Channel 4183: 1GHz – 2.5GHz

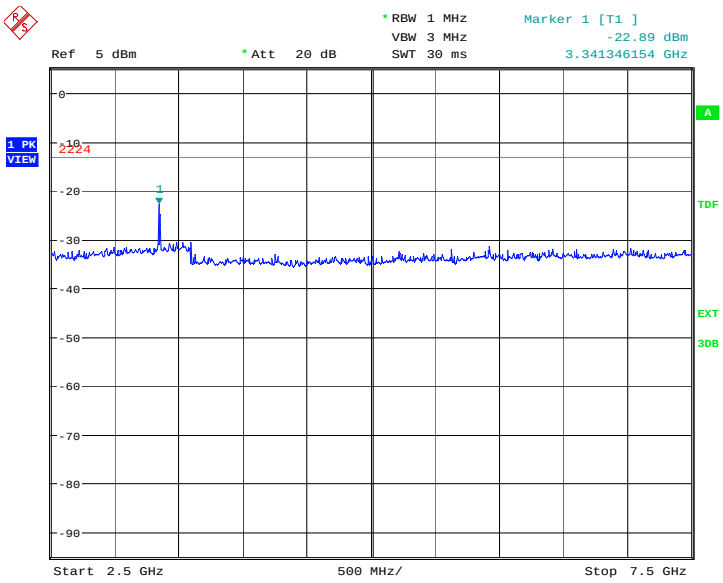
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:48:24

Channel 4183: 2.5GHz –7.5GHz

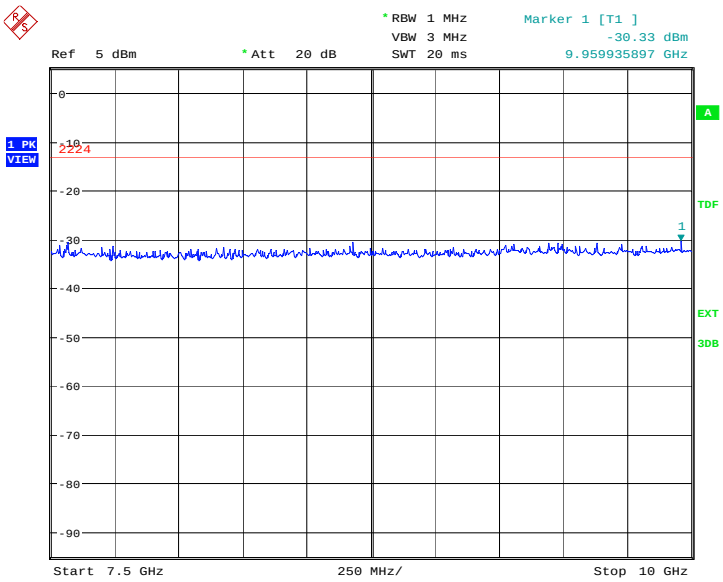
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:48:52

Channel 4183: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

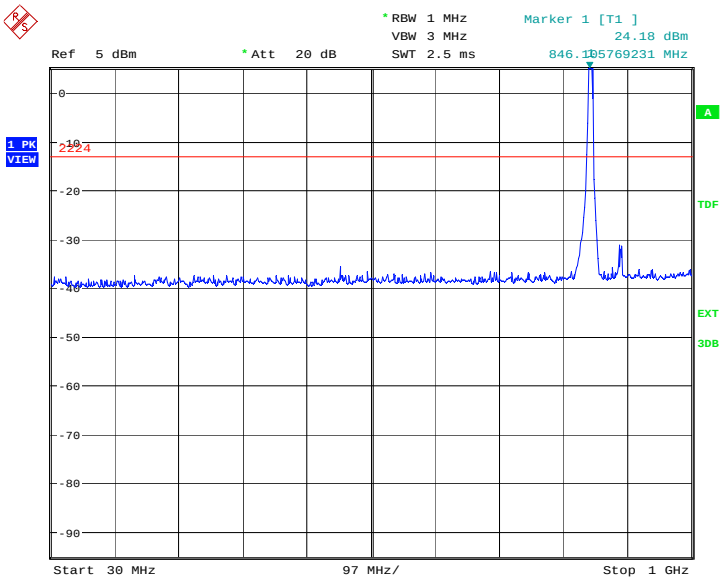


Date: 25.JUN.2014 10:49:21

Channel 4233: 30MHz –1GHz

Spurious emission limit –13dBm.

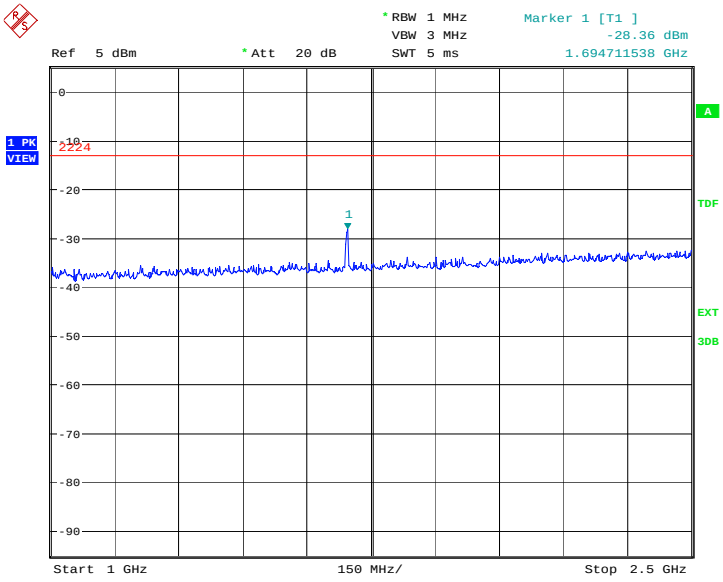
NOTE: peak above the limit line is the carrier frequency.



Date: 25.JUN.2014 10:49:52

Channel 4233: 1GHz – 2.5GHz

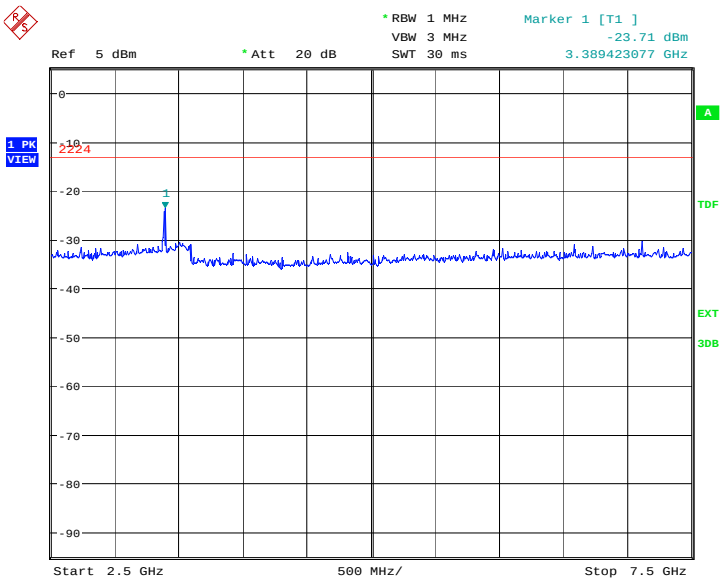
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:50:20

Channel 4233: 2.5GHz –7.5GHz

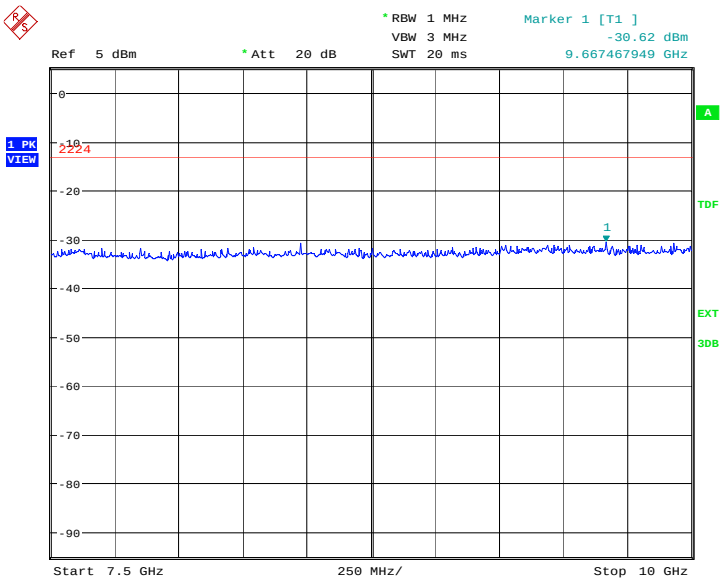
Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:50:48

Channel 4233: 7.5GHz – 10GHz

Spurious emission limit –13dBm.



Date: 25.JUN.2014 10:51:16

*****END OF REPORT*****