



TEST REPORT

No. 2013TAR310

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS dualband / GSM quadband mobile phone

Model Name: Scribe5HD AWS

Marketing Name: ONE TOUCH 8008W

FCC ID : RAD330

with

Hardware Version: 1.5

Software Version: vA8D

Issued Date: 2013-06-18

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 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

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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

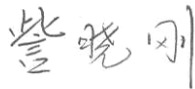
1.2. Testing Environment

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

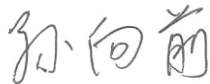
1.3. Project data

Testing Start Date: 2013-03-29
Testing End Date: 2013-06-17

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: 12F/B, TCL Tower, Gaoxin Nanyi Road, Nanshan District, Shenzhen,
Guangdong, P.R. China
City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 755 33956929
Fax: 0086 755 36645072

2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 12F/B, TCL Tower, Gaoxin Nanyi Road, Nanshan District, Shenzhen,
Guangdong, P.R. China
City: Shenzhen
Postal Code: 518057
Country: China
Telephone: 0086 755 33956929
Fax: 0086 755 36645072

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS dualband / GSM quadband mobile phone
Model Name	Scribe5HD AWS
FCC ID	RAD330
Frequency	GSM 850MHz; PCS 1900MHz; WCDMA Band II; WCDMA Band IV
Release	R99
HSDPA category	8
HSUPA category	7
Antenna	Internal or external
Power supply	Battery or Charger (AC Adaptor)
Output power	24.95 dBm maximum EIRP measured for WCDMA BAND IV
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*	SN or IMEI	HW Version	SW Version
N14	013507000011816	1.5	vA8D
N15	013507000011808	1.5	vA8D
N16	013507000011790	1.5	vA8D
N17	013507000011782	1.5	vA8D

*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	Travel charger /
AE3	USB cable /
AE4	USB cable /
AE5	USB cable /
AE6	USB cable /

AE1

Model	CAC2500000C3
Manufacturer	SCUD
Capacitance	2500mAh

Nominal voltage	3.8V
AE2	
Model	CBA3000AG0C1
Manufacturer	Tenpao
Length of cable	/
AE3	
Model	CDA3122005C1
Manufacturer	Juwei
Length of cable	102cm
AE4	
Model	CDA3122005C2
Manufacturer	Shenghua
Length of cable	102cm
AE5	
Model	CDA3122002C1
Manufacturer	Juwei
Length of cable	102cm
AE6	
Model	CDA3122002C2
Manufacturer	Shenghua
Length of cable	102cm

*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 HSUPA/HSDPA/UMTS dualband / GSM quadband mobile phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.

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	V 10.1.12
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	V 10.1.12
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	2011

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

Items	List	Clause in FCC rules	Verdict
1	Output Power	24.232(c)/27.50(d)(2)	P
2	Emission Limit	2.1051/24.238/27.53(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	24.238(b)/ 27.53(g)	P
7	Band Edge Compliance	24.238(b)/ 27.53(g)	P
8	Conducted Spurious Emission	2.1057/24.238/ 27.53(g)	P

7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESCI	100344	R&S	2014-03-27
2	Test Receiver	ESU26	100376	R&S	2013-11-07
3	EMI Antenna	VULB 9163	514	Schwarzbeck	2014-11-10
4	EMI Antenna	3117	00139065	ETS-Lindgren	2014-07-31
5	LISN	ESH2-Z5	829991/012	R&S	2014-04-15
6	Universal Radio Communication Tester	CMU200	102228	R&S	2013-07-07
7	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2014-03-15
8	Spectrum Analyzer	E4440A	MY48250642	Agilent	2014-03-04
9	EMI Antenna	9117	177	Schwarzbeck	2014-06-29
10	EMI Antenna	VULB 9163	482	Schwarzbeck	2014-02-17
11	EMI Antenna	3117	00119024	ETS-Lindgren	2014-02-02
12	EMI Antenna	3117	00058889	ETS-Lindgren	2014-02-02
13	Signal Generator	N5183A	MY49060052	Agilent	2014-03-18
14	Climatic chamber	PL-2G	343074	ESPEC	2014-05-11
1	Test Receiver	ESCI	100344	R&S	2014-03-27

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, 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. The power was measured with Rhode & Schwarz Spectrum Analyzer FSU (RMS) These measurements were done at 3 frequencies, 1852.4 MHz, 1880.0MHz and 1907.6MHz for WCDMA Band II; and 1712.4MHz, 1740MHz, and 1752.6MHz for WCDMA Band IV(bottom, middle and top of operational frequency range).

Limit

According to FCC § 2.1046.

A.1.2.2 Test Condition

RBW	VBW	Sweep Time	Span
10MHz	10MHz	800ms	50MHz

WCDMA Band II

Measurement result

WCDMA (Band II)	CH	Frequency(MHz)	output power(dBm)
	9262	1852.4	22.71
	9400	1880.0	22.79
	9538	1907.6	22.66

WCDMA Band IV

Measurement result

WCDMA (Band IV)	CH	Frequency(MHz)	output power(dBm)
	1312	1712.4	23.03
	1450	1740.0	23.06
	1513	1752.6	23.10

ANALYZER SETTINGS: VBW=RBW=10MHz; SPAN=50MHz; SWT=800ms

A.1.3 Radiated

A.1.3.1 Description

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

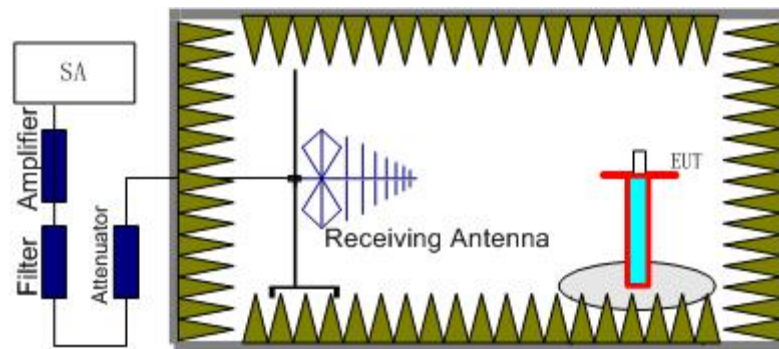
Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power"

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."

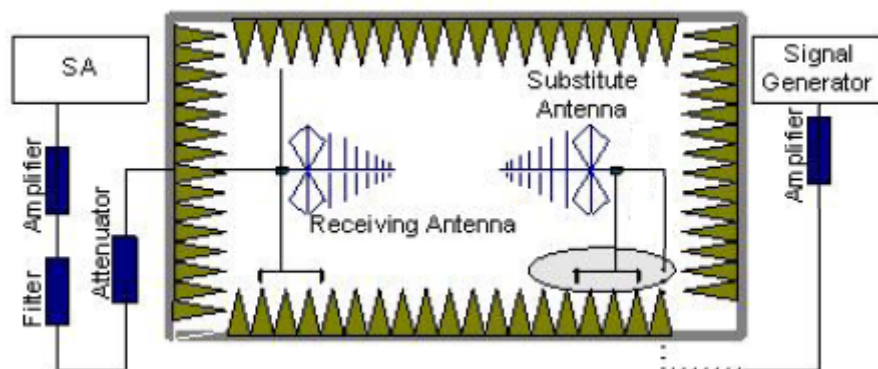
A.1.3.2 Method of Measurement

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. An 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:

$$\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} - G_a$$

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, $ERP = EIRP - 2.15\text{dBi}$.

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)	Polarization
1852.40	-28.07	3.18	-50.00	-4.55	23.30	H
1880.00	-28.80	3.11	-50.00	-4.43	22.52	H
1907.60	-26.41	3.18	-50.00	-4.31	24.72	H

Frequency: 1907.60MHz

Peak EIRP(dBm)= P_{Mea}(-26.41dBm)- P_{cl}(3.18dB)- P_{Ag}(-50.00dB)-G_a (-4.31dB) =24.72dBm

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)	Polarization
1712.40	-28.90	2.97	-50.00	-5.17	23.30	H
1740.00	-27.68	2.99	-50.00	-5.04	24.37	H
1752.60	-27.03	3.01	-50.00	-4.99	24.95	H

Frequency: 1752.60MHz

Peak EIRP(dBm)= P_{Mea}(-27.03dBm)- P_{cl}(3.01dB)- P_{Ag}(-50.00dB)-G_a (-4.99dB) =24.95dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

A.2 EMISSION LIMIT

A.2.1 Measurement Method

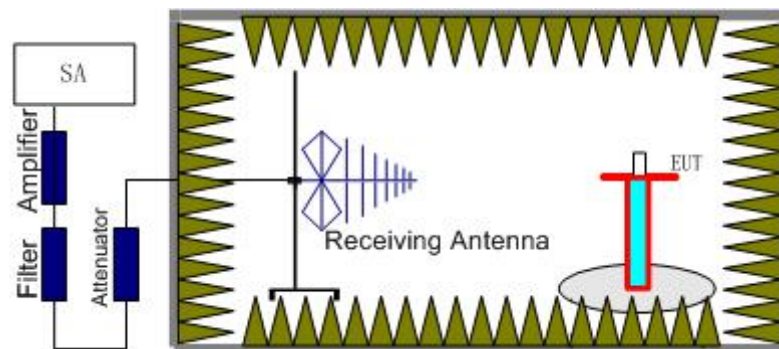
The measurements procedures in TIA-603C-2004 are used.

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 and Part 27.53.

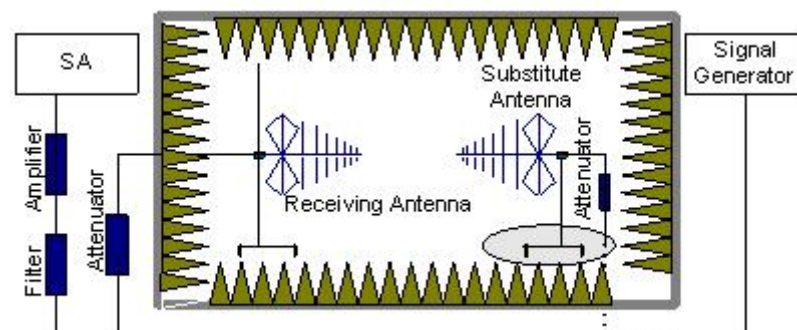
The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the WCDMA Band II and WCDMA Band IV.

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 (P_r).
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:

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

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, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

Part 24.238 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 the WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz) 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 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 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 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)	Polarization
4081.20	-61.61	4.79	-8.55	-57.85	-13.00	V
5344.77	-62.55	5.41	-9.91	-58.05	-13.00	H
9010.19	-58.83	7.39	-12.60	-53.62	-13.00	H
10325.65	-58.93	7.90	-12.47	-54.36	-13.00	V
13887.25	-57.42	9.17	-13.95	-52.64	-13.00	V
16667.44	-51.28	10.22	-12.40	-49.10	-13.00	V

WCDMA BAND II Mode Channel 9400/1880MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
3314.68	-62.30	4.15	-7.46	-58.99	-13.00	H
4801.10	-63.19	5.09	-9.34	-58.94	-13.00	H
6544.62	-62.54	6.05	-10.64	-57.95	-13.00	H
8868.64	-63.02	7.39	-12.49	-57.92	-13.00	V
12455.30	-56.49	8.75	-12.68	-52.56	-13.00	H
15553.24	-54.88	10.11	-13.36	-51.63	-13.00	V

WCDMA BAND II Mode Channel 9538/1907.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
4372.78	-62.51	4.88	-8.72	-58.67	-13.00	H
6900.87	-61.30	6.10	-11.00	-56.40	-13.00	H
9138.43	-62.21	7.62	-12.60	-57.23	-13.00	H
11994.94	-56.43	8.71	-12.50	-52.64	-13.00	V
13569.28	-58.31	9.23	-13.83	-53.71	-13.00	V
16819.41	-53.81	10.52	-12.40	-51.93	-13.00	V

WCDMA BAND IV Mode Channel 1312/1712.4MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
3239.42	-62.33	4.18	-7.27	-59.24	-13.00	V
5232.39	-62.38	5.26	-9.84	-57.80	-13.00	V
7154.61	-63.85	6.36	-11.19	-59.02	-13.00	V
10098.73	-59.94	8.21	-12.42	-55.73	-13.00	V
12016.44	-57.27	8.82	-12.51	-53.58	-13.00	V
16031.10	-56.11	10.57	-12.96	-53.72	-13.00	V

WCDMA BAND IV Mode Channel 1450/1740MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
3112.21	-62.47	4.01	-6.97	-59.51	-13.00	V
4712.97	-62.99	4.96	-9.18	-58.77	-13.00	H
7427.95	-61.84	6.39	-11.36	-56.87	-13.00	H
10099.88	-58.92	8.21	-12.42	-54.71	-13.00	H
13171.00	-57.06	9.22	-13.47	-52.81	-13.00	V
16199.99	-55.61	10.00	-12.76	-52.85	-13.00	V

WCDMA BAND IV Mode Channel 1513/1752.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
6870.86	-60.60	6.07	-10.97	-55.70	-13.00	V
7432.41	-60.56	6.39	-11.36	-55.59	-13.00	H
8573.54	-63.21	7.16	-12.26	-58.11	-13.00	H
11340.85	-58.21	8.57	-12.40	-54.38	-13.00	V
13895.63	-57.70	9.15	-13.96	-52.89	-13.00	H
17132.21	-52.80	10.44	-12.64	-50.60	-13.00	H

A.3 CONDUCTED EMISSION

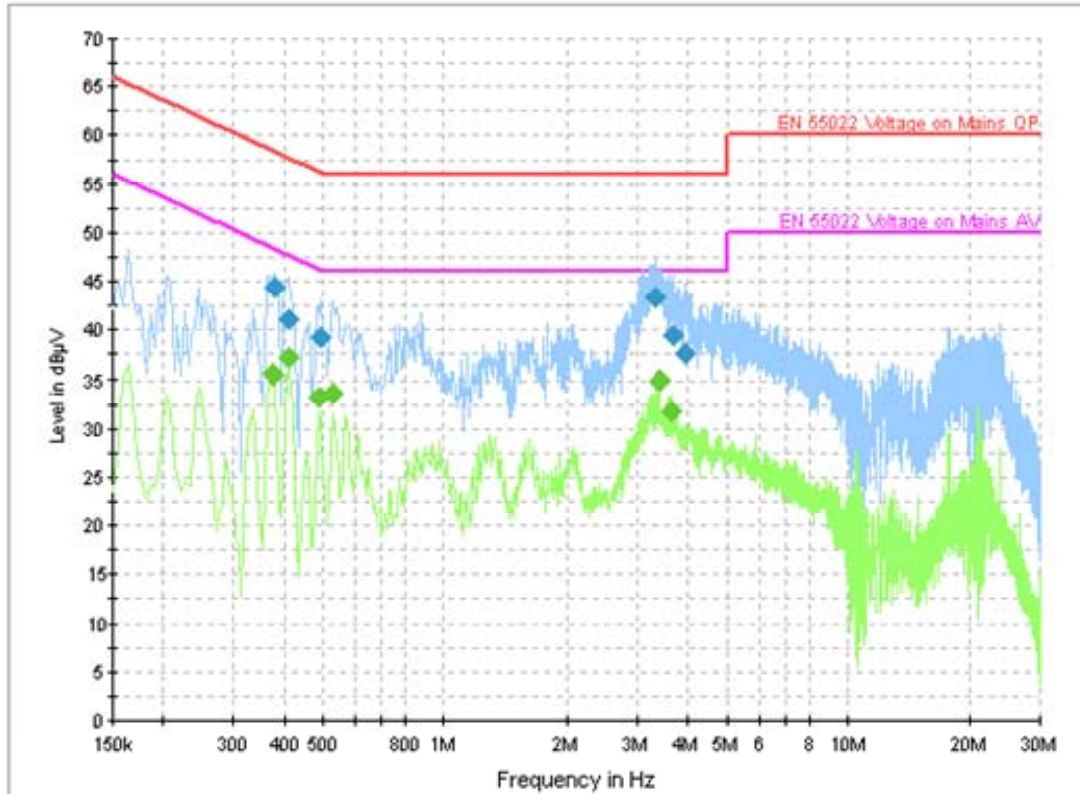
The measurement procedure in ANSI C63.4-2003 is used. Conducted Emission is measured with travel charger.

A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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



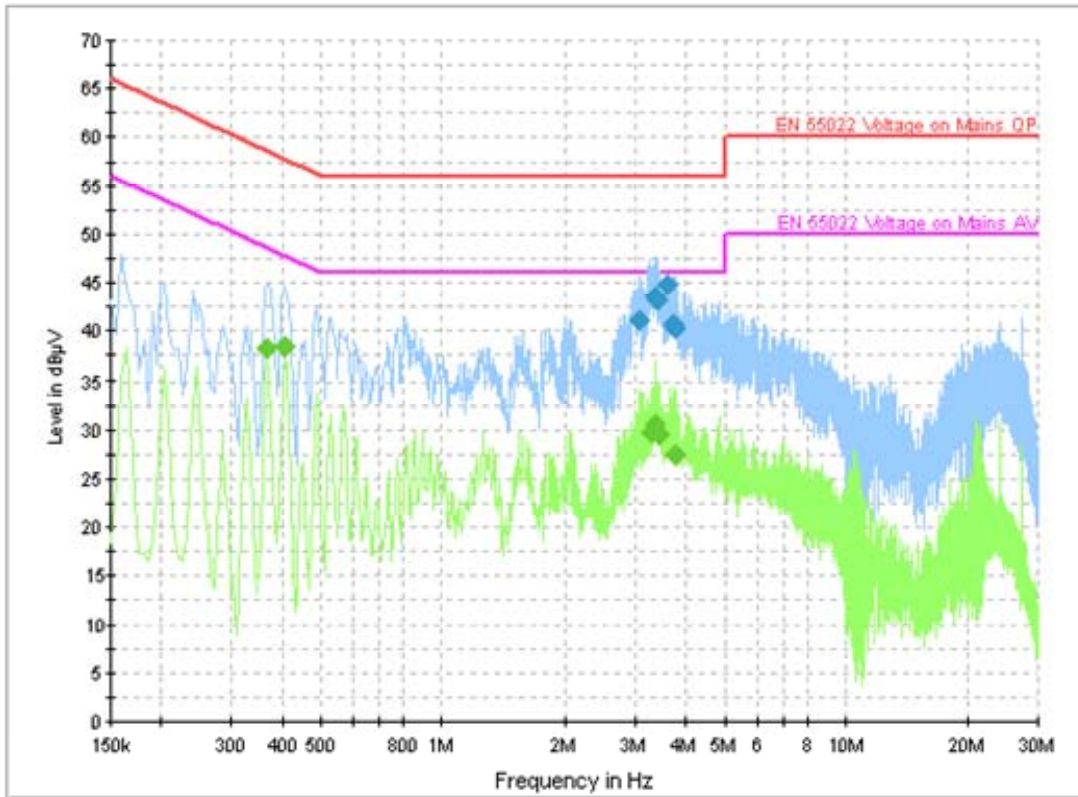
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379501	44.5	GND	L1	9.3	13.8	58.3
0.411001	41.0	GND	N	9.5	16.6	57.6
0.492001	39.3	GND	N	9.7	16.9	56.1
3.300001	43.3	GND	L1	9.8	12.7	56.0
3.669001	39.4	GND	L1	9.8	16.6	56.0
3.943501	37.7	GND	L1	9.8	18.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.375001	35.6	GND	L1	9.3	12.8	48.4
0.411001	37.1	GND	L1	9.4	10.6	47.6
0.487501	33.2	GND	L1	9.7	13.0	46.2
0.528001	33.6	GND	L1	9.8	12.4	46.0
3.394501	34.8	GND	L1	9.8	11.2	46.0
3.624001	31.9	GND	L1	9.8	14.1	46.0

WCDMA Band IV



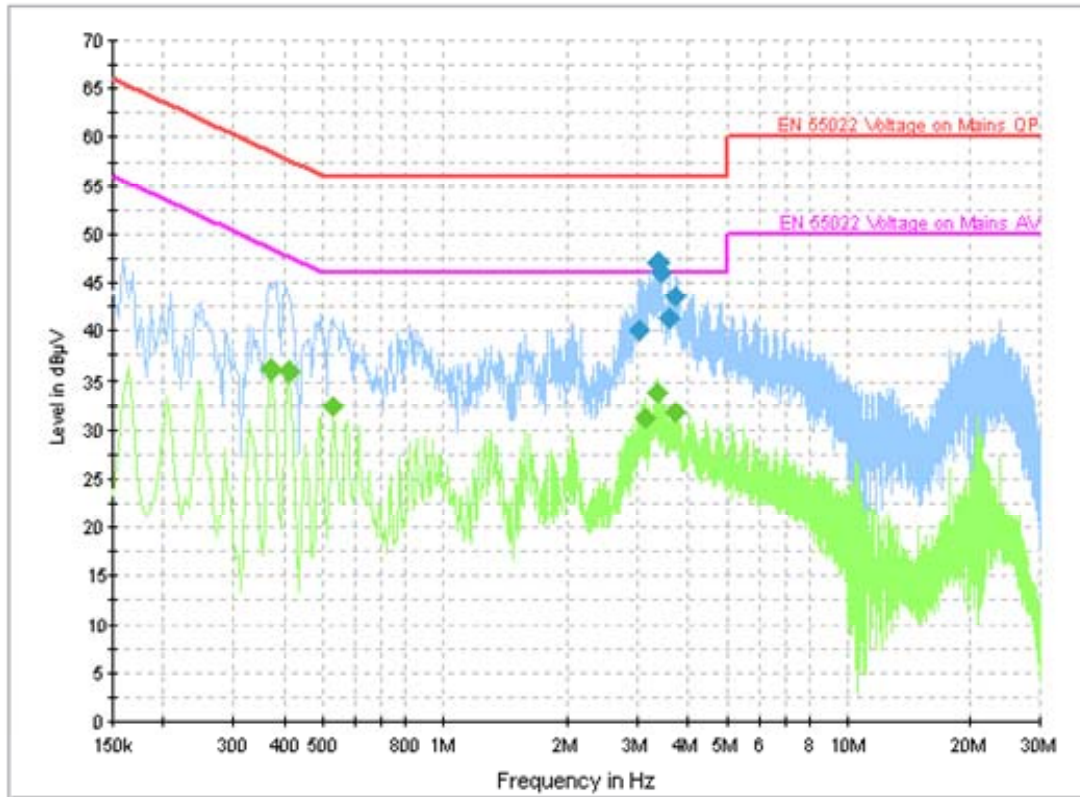
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
3.066001	41.0	GND	L1	9.8	15.0	56.0
3.349501	43.7	GND	L1	9.8	12.3	56.0
3.390001	43.2	GND	L1	9.8	12.8	56.0
3.579001	44.9	GND	L1	9.8	11.1	56.0
3.718501	40.7	GND	L1	9.8	15.3	56.0
3.759001	40.3	GND	L1	9.8	15.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.366001	38.2	GND	L1	9.3	10.4	48.6
0.406501	38.5	GND	L1	9.4	9.2	47.7
3.268501	29.8	GND	L1	9.8	16.2	46.0
3.349501	30.5	GND	L1	9.8	15.5	46.0
3.430501	29.5	GND	L1	9.8	16.5	46.0
3.759001	27.5	GND	L1	9.8	18.5	46.0

MP3



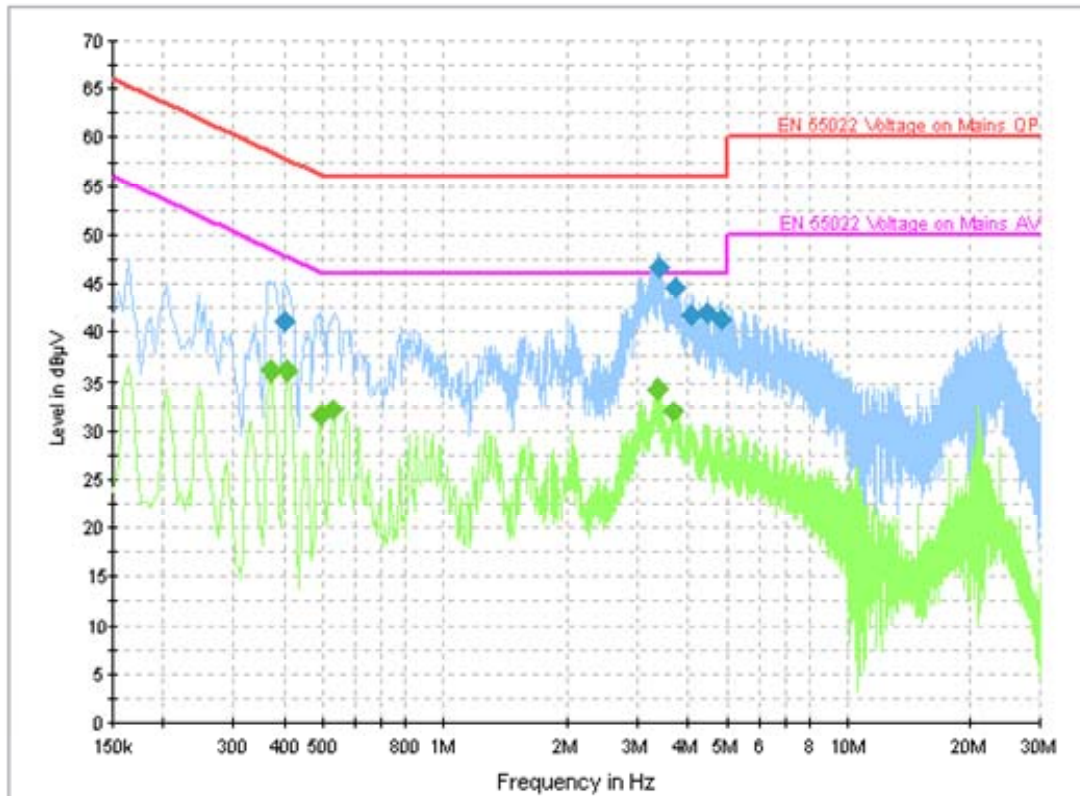
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
3.034501	40.1	GND	L1	9.8	15.9	56.0
3.349501	47.0	GND	L1	9.8	9.0	56.0
3.390001	47.1	GND	L1	9.8	8.9	56.0
3.430501	46.1	GND	L1	9.8	9.9	56.0
3.583501	41.3	GND	L1	9.8	14.7	56.0
3.718501	43.5	GND	L1	9.8	12.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.370501	36.2	GND	L1	9.3	12.3	48.5
0.411001	36.0	GND	L1	9.4	11.7	47.6
0.532501	32.4	GND	L1	9.8	13.6	46.0
3.147001	31.1	GND	L1	9.8	14.9	46.0
3.349501	33.8	GND	L1	9.8	12.2	46.0
3.718501	31.8	GND	L1	9.8	14.2	46.0

Camera



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.402001	41.2	GND	L1	9.4	16.7	57.8
3.390001	46.6	GND	L1	9.8	9.4	56.0
3.718501	44.6	GND	L1	9.8	11.4	56.0
4.083001	41.6	GND	L1	9.8	14.4	56.0
4.452001	41.8	GND	L1	9.8	14.2	56.0
4.821001	41.2	GND	L1	9.8	14.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.370501	36.2	GND	L1	9.3	12.3	48.5
0.406501	36.1	GND	L1	9.4	11.6	47.7
0.492001	31.6	GND	L1	9.7	14.5	46.1
0.532501	32.2	GND	L1	9.8	13.8	46.0
3.349501	34.3	GND	L1	9.8	11.7	46.0
3.678001	31.9	GND	L1	9.8	14.1	46.0

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°C.
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 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°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 increments 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.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	-13	0.007
3.8	4	0.002
4.35	-11	0.006

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	12	0.007
-20	17	0.009
-10	10	0.005
0	11	0.006
10	12	0.006
20	11	0.006
30	12	0.006
40	-14	0.007
50	11	0.006

WCDMA Band IV

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	19	0.011
3.8	15	0.008
4.35	12	0.007

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	14	0.008
-20	23	0.013
-10	20	0.011
0	17	0.010
10	20	0.011
20	24	0.014
30	21	0.012
40	18	0.010
50	24	0.014

A.5 OCCUPIED BANDWIDTH

A.5.1 Occupied Bandwidth Results

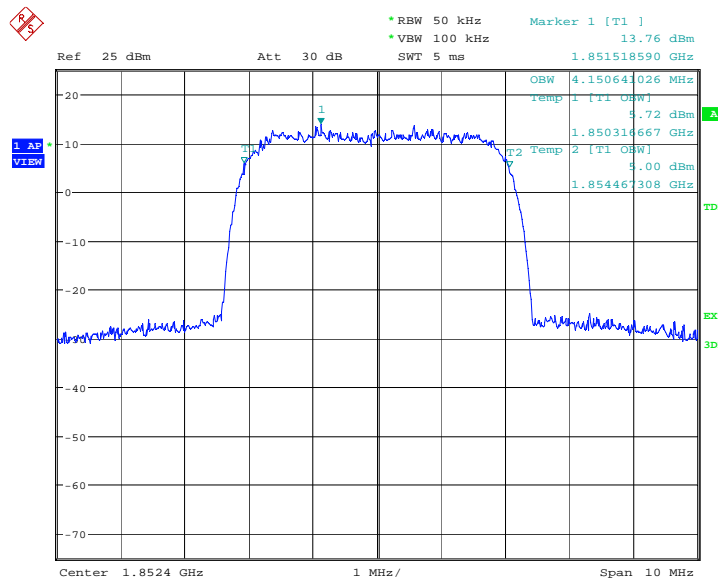
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA IV. The table below lists the measured -20dBc BW. Spectrum analyzer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

WCDMA Band II(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
1852.4	4.151
1880.0	4.167
1907.6	4.151

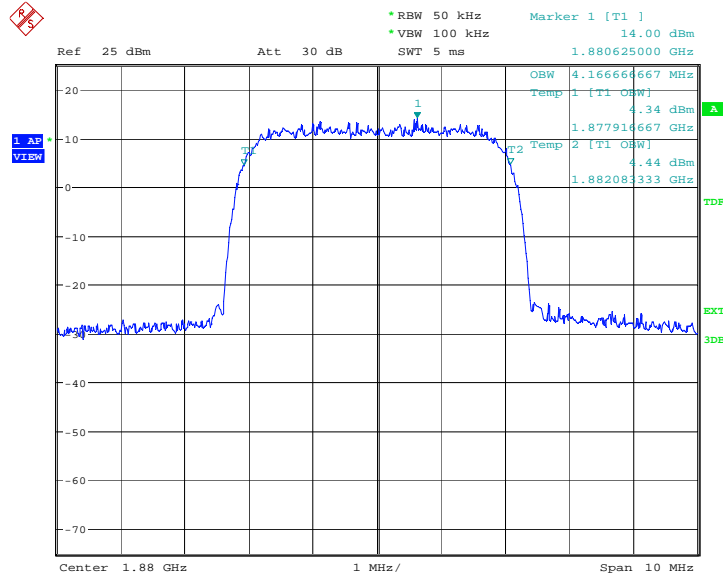
WCDMA Band II

Channel 9262-Occupied Bandwidth (-20dBc BW)



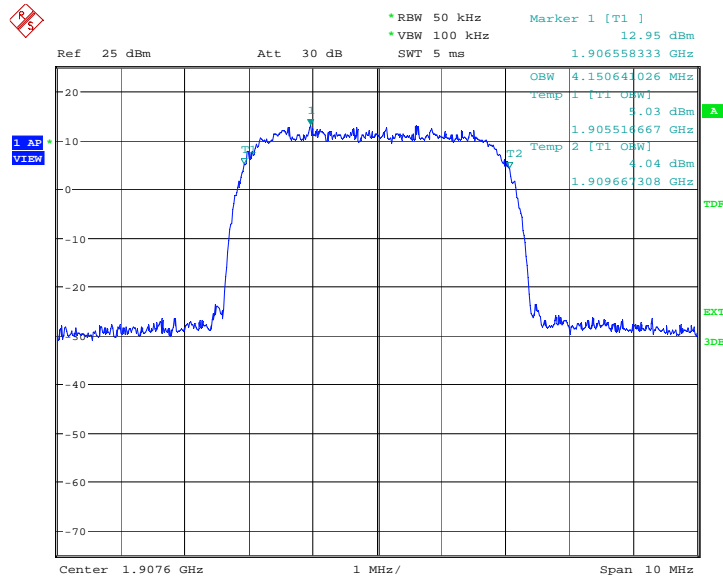
Date: 19.APR.2013 06:40:20

Channel 9400-Occupied Bandwidth (-20dBc BW)



Date: 19.APR.2013 06:40:54

Channel 9538-Occupied Bandwidth (-20dBc BW)



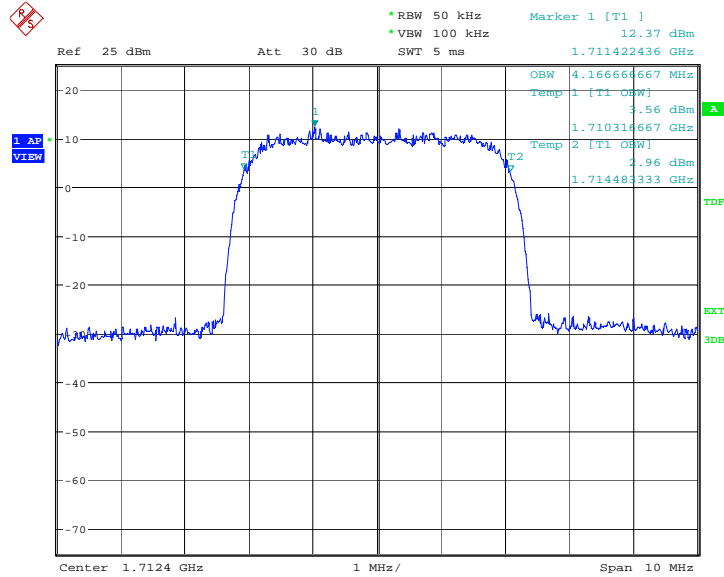
Date: 19.APR.2013 06:41:29

WCDMA Band IV(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
1712.4	4.167
1740	4.167
1752.6	4.167

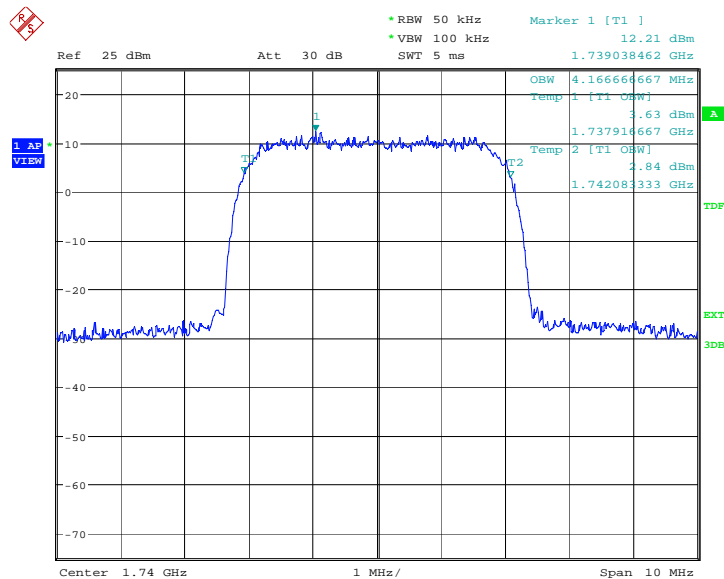
WCDMA Band IV

Channel 1312-Occupied Bandwidth (-20dBc BW)



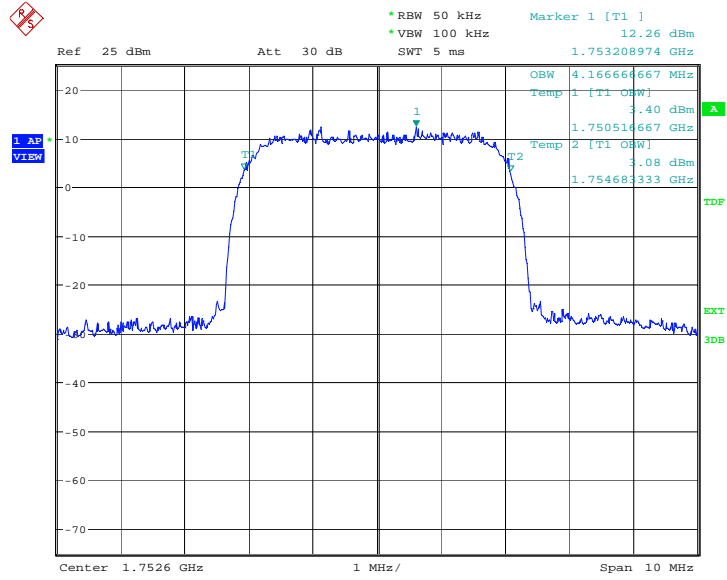
Date: 19.APR.2013 07:09:53

Channel 1450-Occupied Bandwidth (-20dBc BW)



Date: 19.APR.2013 07:10:27

Channel 1513-Occupied Bandwidth (-20dBc BW)



Date: 19.APR.2013 07:11:02

A.6 EMISSION BANDWIDTH

A.6.1 Emission Bandwidth Results

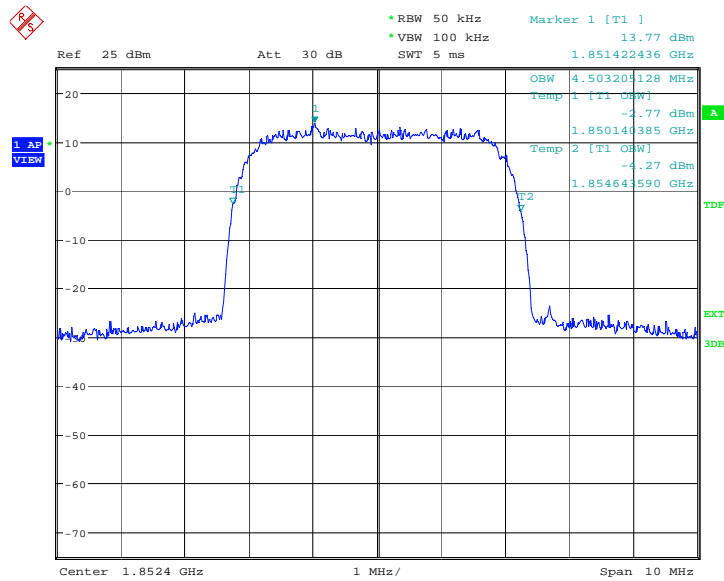
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA Band IV. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band II(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
1852.4	4.503
1880.0	4.487
1907.6	4.487

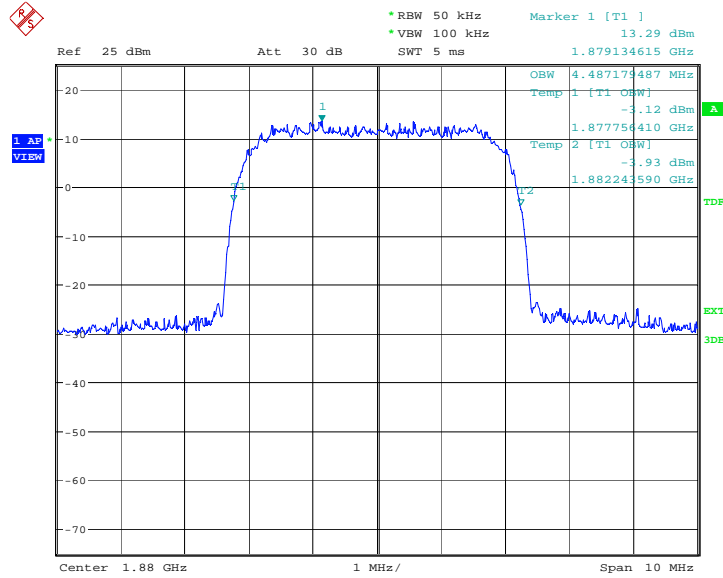
WCDMA Band II

Channel 9262-Occupied Bandwidth (-26dBc BW)



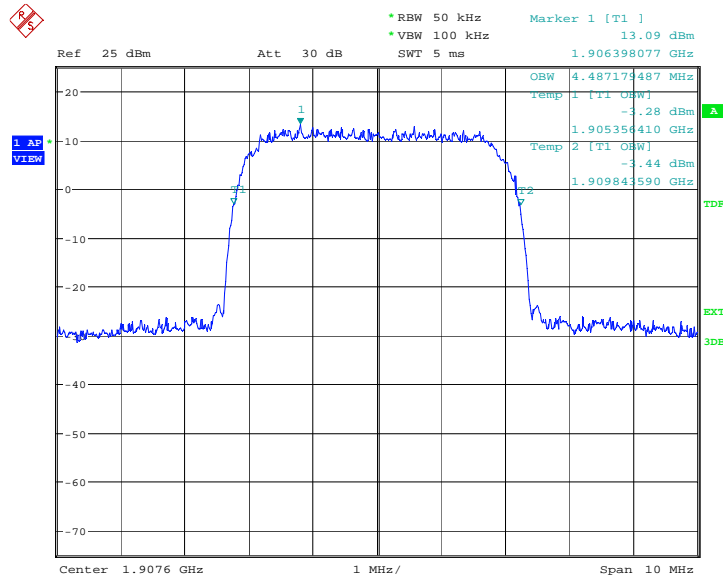
Date: 19.APR.2013 06:42:05

Channel 9400-Occupied Bandwidth (-26dBc BW)



Date: 19.APR.2013 06:42:40

Channel 9538-Occupied Bandwidth (-26dBc BW)



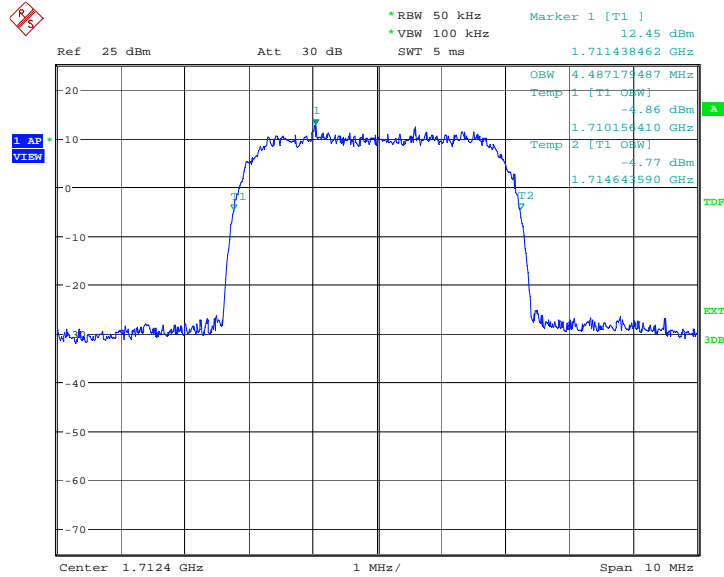
Date: 19.APR.2013 06:43:14

WCDMA Band IV(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
1712.4	4.487
1740	4.487
1752.6	4.487

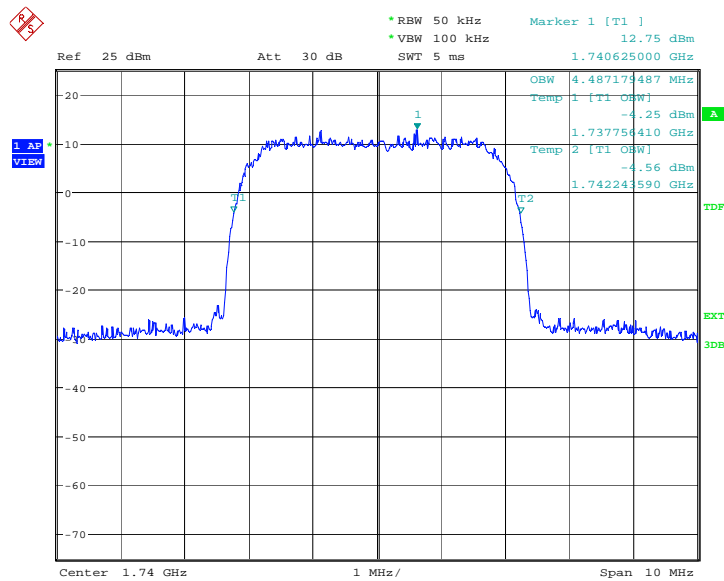
WCDMA Band IV

Channel 1312-Occupied Bandwidth (-26dBc BW)



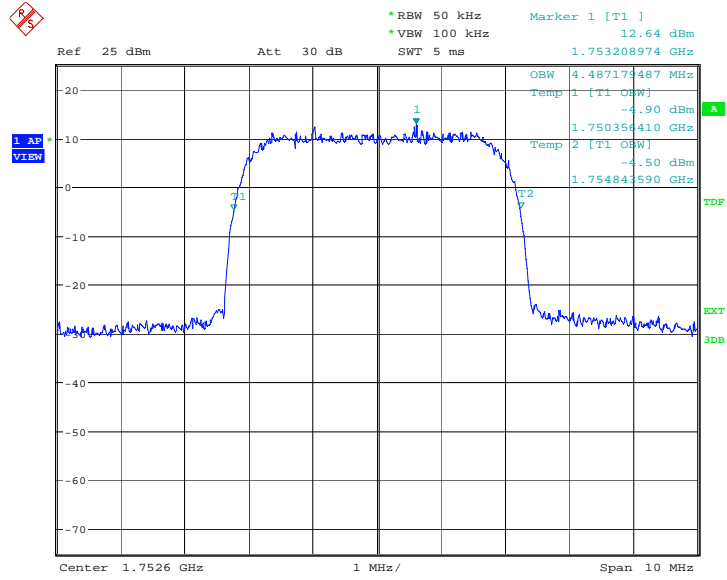
Date: 19.APR.2013 07:11:38

Channel 1450-Occupied Bandwidth (-26dBc BW)



Date: 19.APR.2013 07:12:12

Channel 1513-Occupied Bandwidth (-26dBc BW)

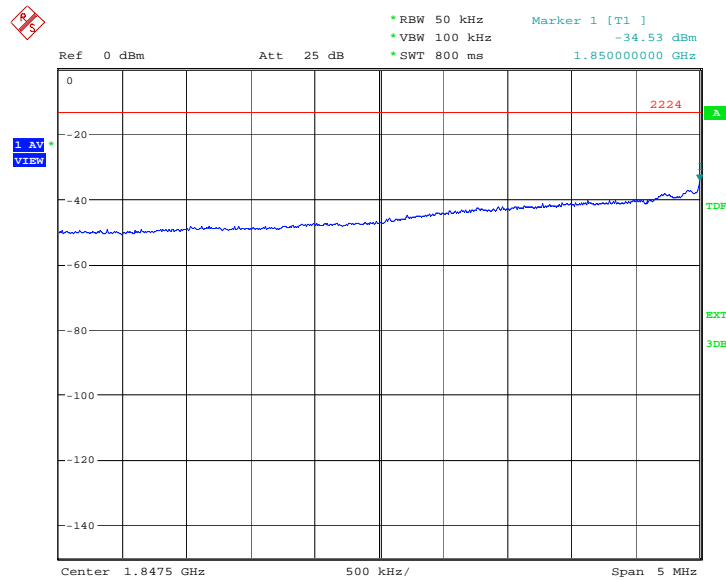


Date: 19.APR.2013 07:12:47

A.7 BAND EDGE COMPLIANCE

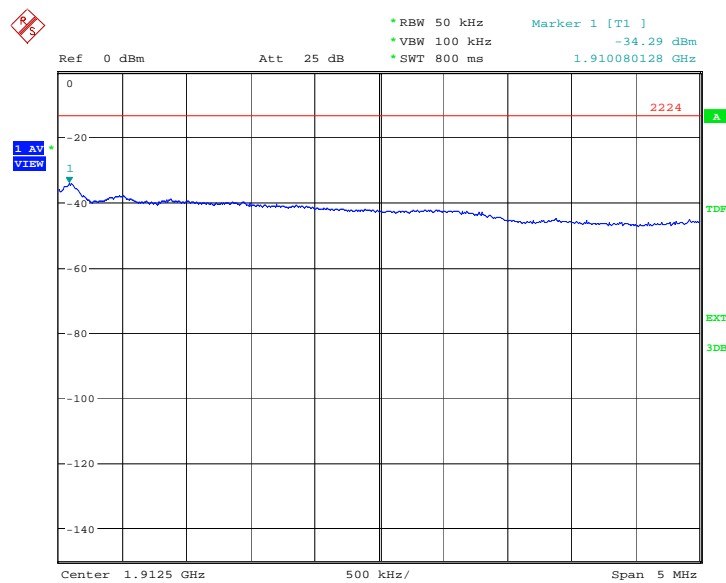
WCDMA Band II

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



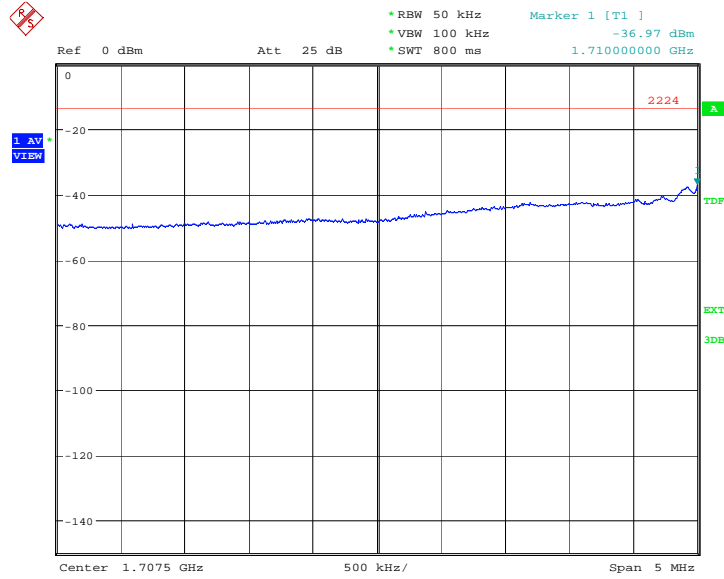
Date: 17.JUN.2013 09:26:16

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



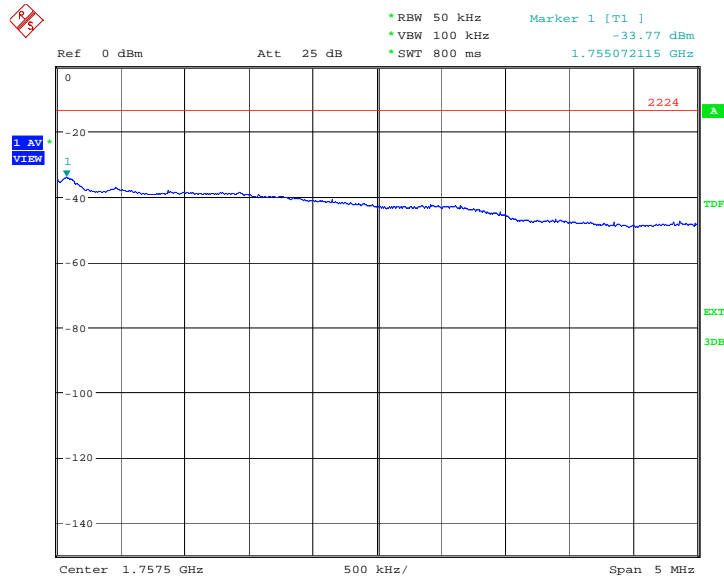
Date: 17.JUN.2013 09:26:32

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



Date: 19.APR.2013 07:13:03

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



Date: 19.APR.2013 07:13:19

A.8 CONDUCTED SPURIOUS EMISSION

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 equipment of WCDMA Band II, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For WCDMA Band IV, data taken from 30 MHz to 20GHz.
2. The sweep time is set automatically by instrument itself. That should be the optimal sweep time for the span and the RBW. If the sweep time is too short, that is sweep is too fast, the sweep result is not accurate; If the sweep time is too long, that is sweep is too low, some frequency components may be lost. The instrument will give a optimal sweep time according the selected span and RBW.
3. The procedure to get the conducted spurious emission is as follows:
The trace mode is set to MaxHold to get the highest signal at each frequency;
Wait 25 seconds;
Get the result.
4. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

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

A. 8.2 Measurement Limit

Part 24.238 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.

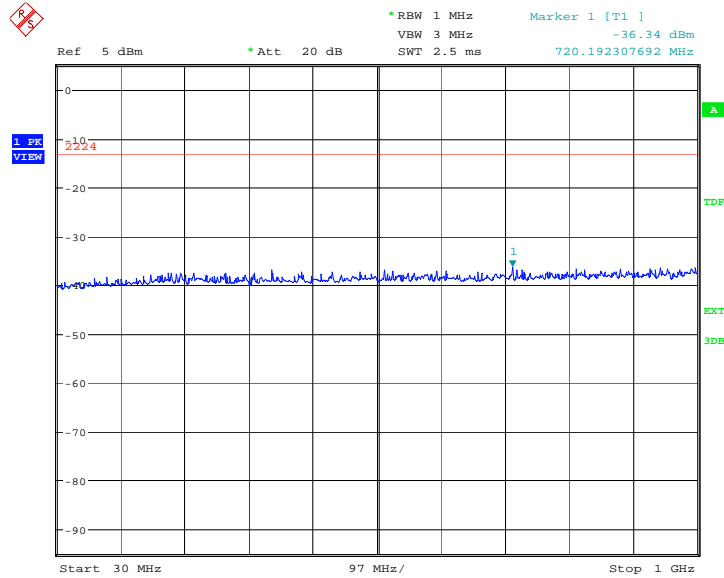
The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13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

A. 8.3.1 Channel 9262: 30MHz –1GHz

Spurious emission limit –13dBm.

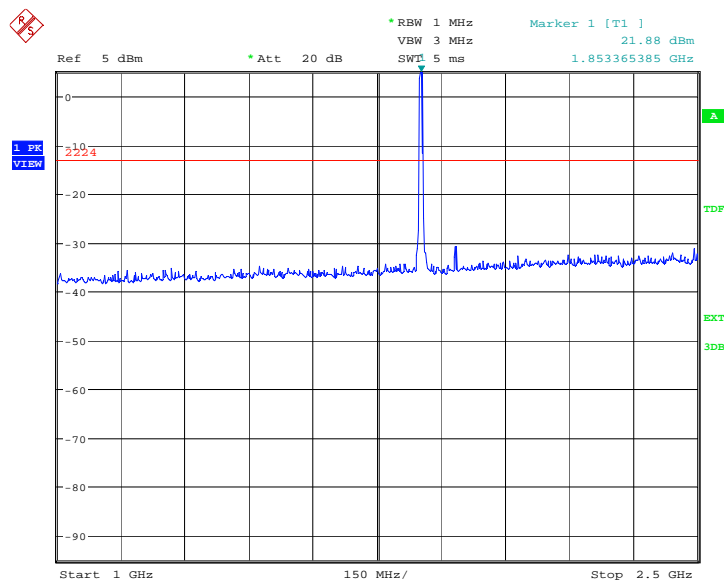


Date: 19.APR.2013 06:44:18

A.8.3.2 Channel 9262: 1GHz –2.5GHz

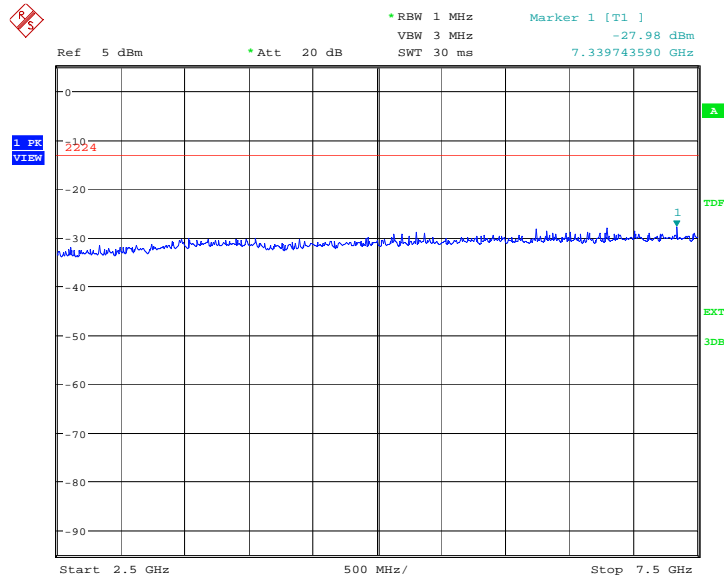
Spurious emission limit –13dBm.

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



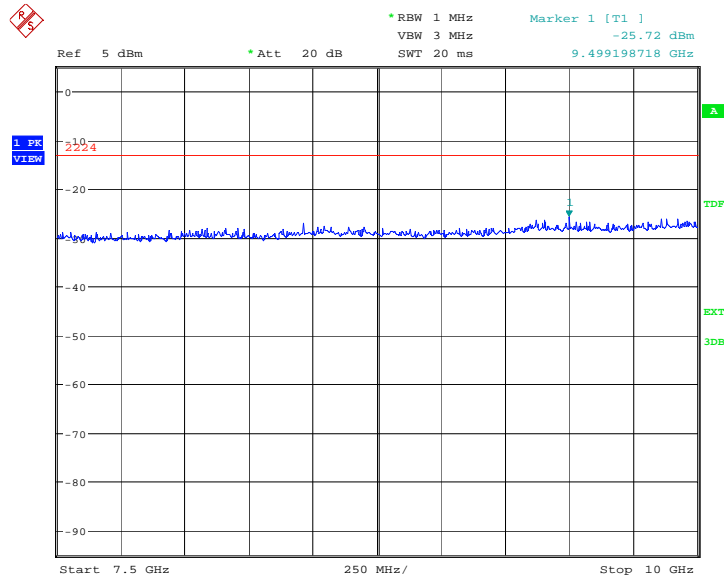
Date: 19.APR.2013 06:44:46

A.8.3.3 Channel 9262: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



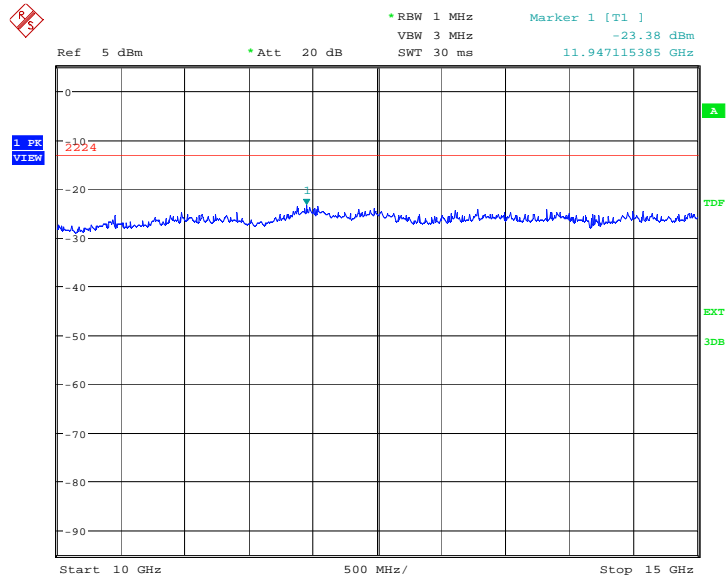
Date: 19.APR.2013 06:45:14

A.8.3.4 Channel 9262: 7.5GHz –10GHz
Spurious emission limit –13dBm.



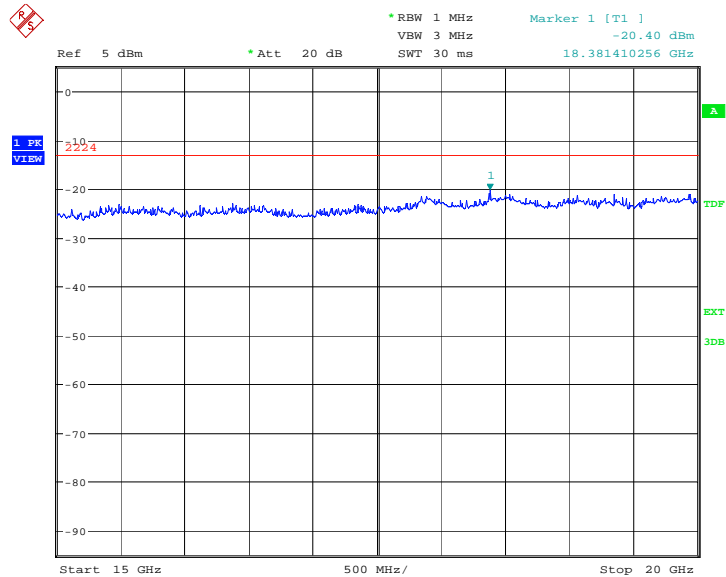
Date: 19.APR.2013 06:45:42

A.8.3.5 Channel 9262: 10GHz –15GHz
Spurious emission limit –13dBm.



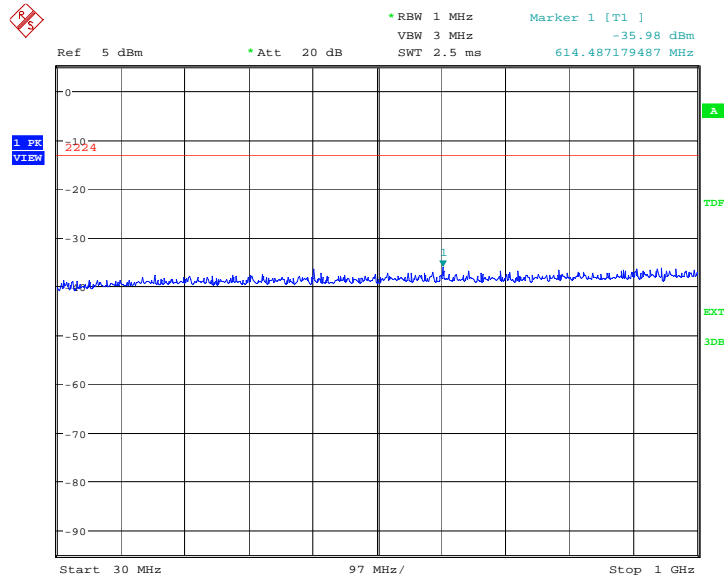
Date: 19.APR.2013 06:46:10

A.8.3.6 Channel 9262: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 06:46:39

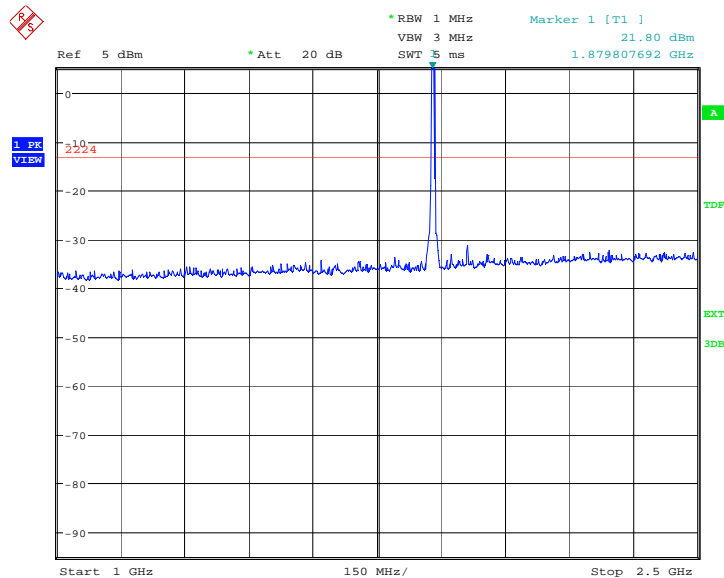
A. 8.3.7 Channel 9400: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 06:47:09

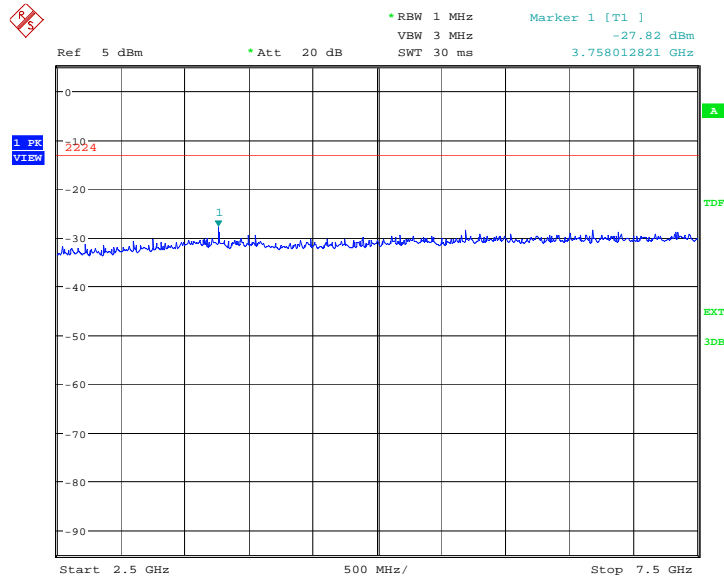
A.8.3.8 Channel 9400: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



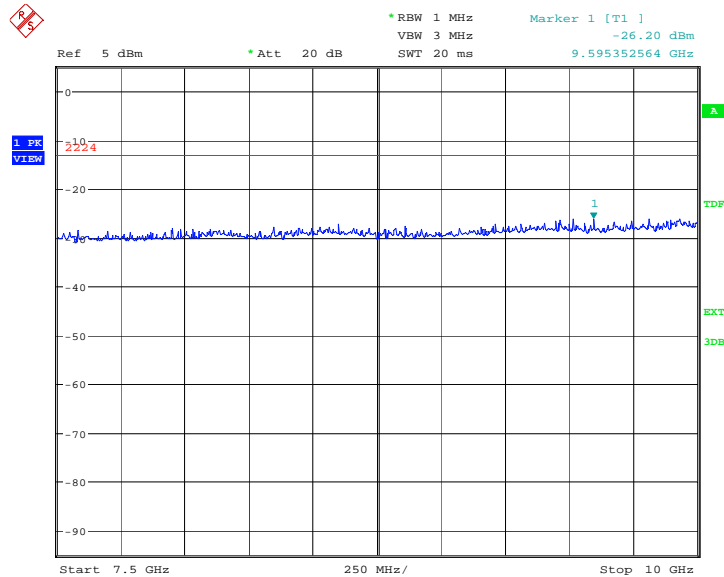
Date: 19.APR.2013 06:47:38

A.8.3.9 Channel 9400: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



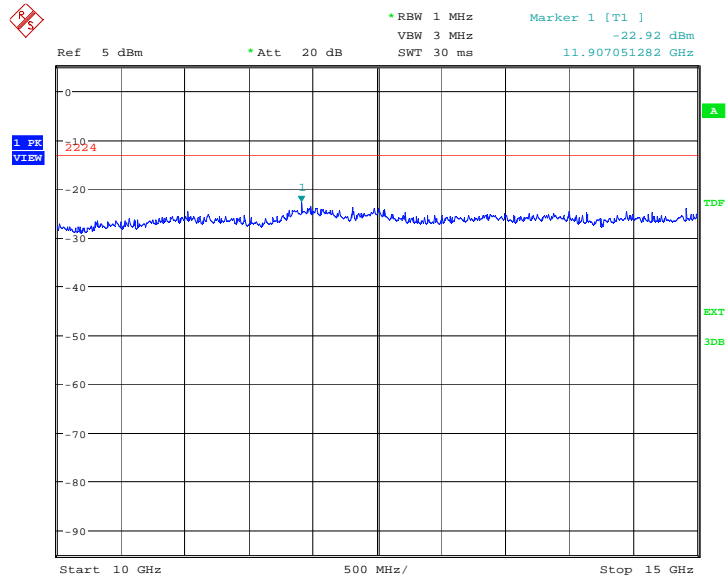
Date: 19.APR.2013 06:48:06

A.8.3.10 Channel 9400: 7.5GHz –10GHz
Spurious emission limit –13dBm.



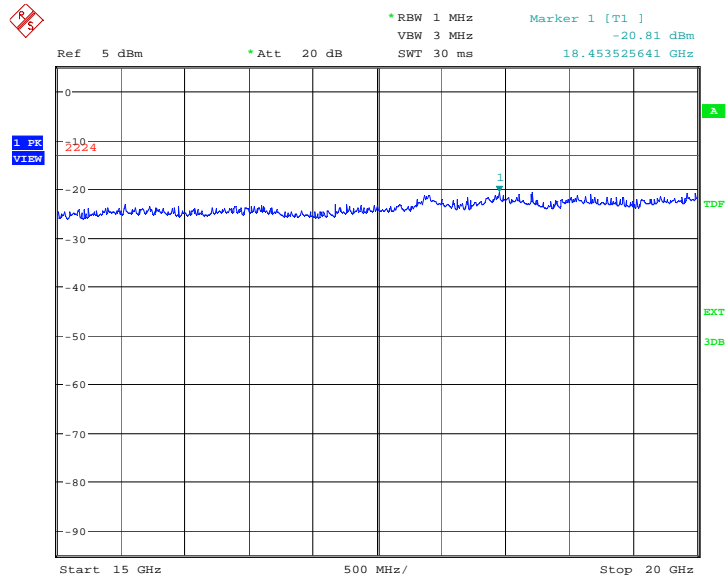
Date: 19.APR.2013 06:48:34

A.8.3.11 Channel 9400: 10GHz –15GHz
Spurious emission limit –13dBm.



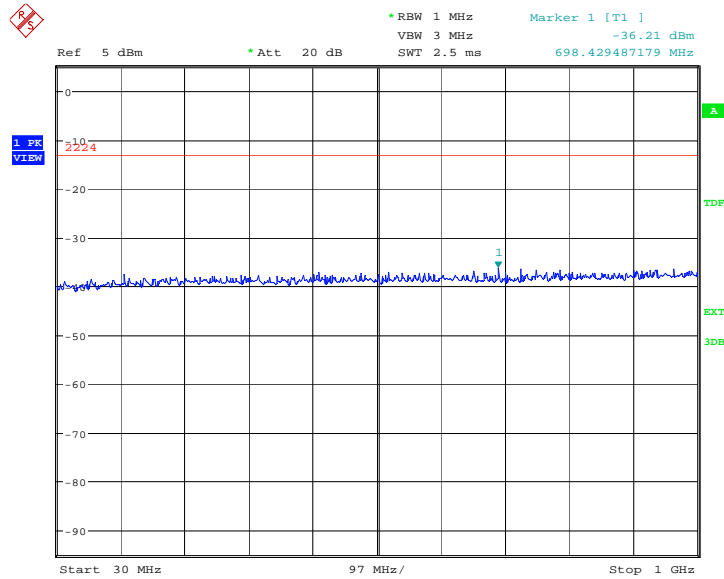
Date: 19.APR.2013 06:49:02

A.8.3.12 Channel 9400: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 06:49:31

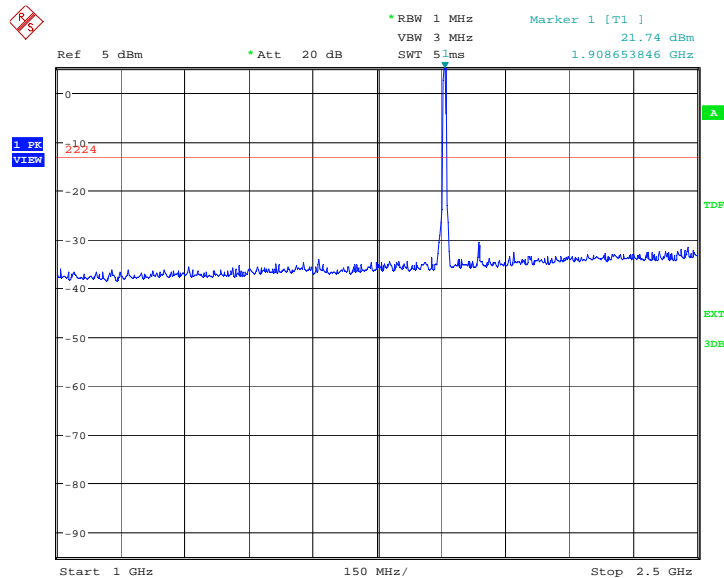
A. 8.3.13 Channel 9538: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 06:50:02

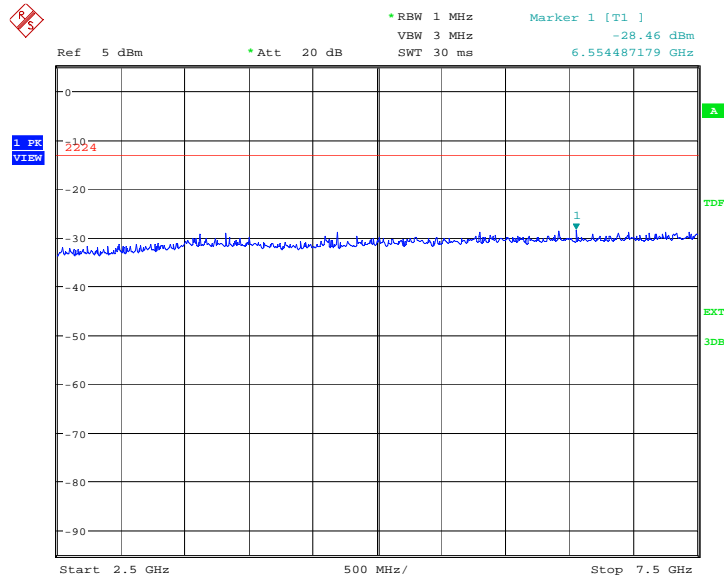
A.8.3.14 Channel 9538: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



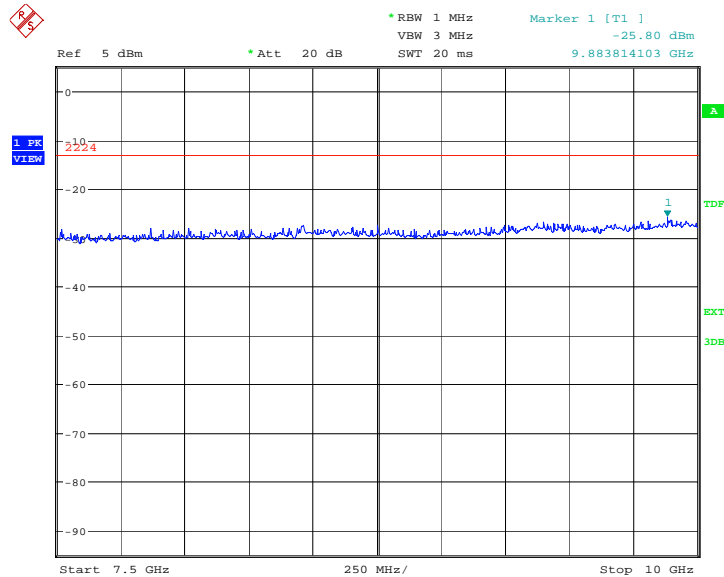
Date: 19.APR.2013 06:50:30

A.8.3.15 Channel 9538: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



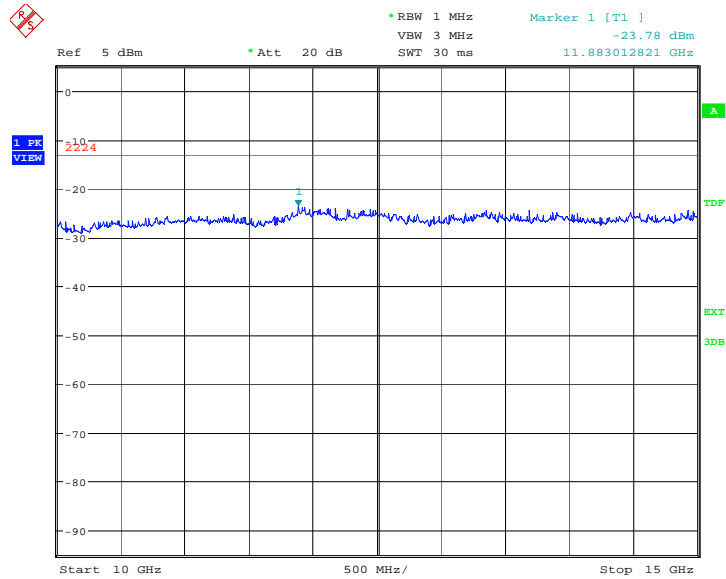
Date: 19.APR.2013 06:50:58

A.8.3.16 Channel 9538: 7.5GHz –10GHz
Spurious emission limit –13dBm.



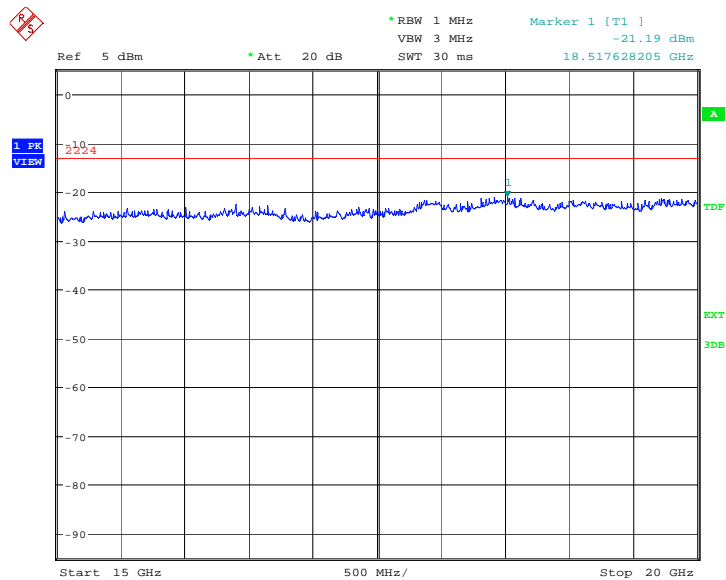
Date: 19.APR.2013 06:51:26

A.8.3.17 Channel 9538: 10GHz –15GHz
Spurious emission limit –13dBm.



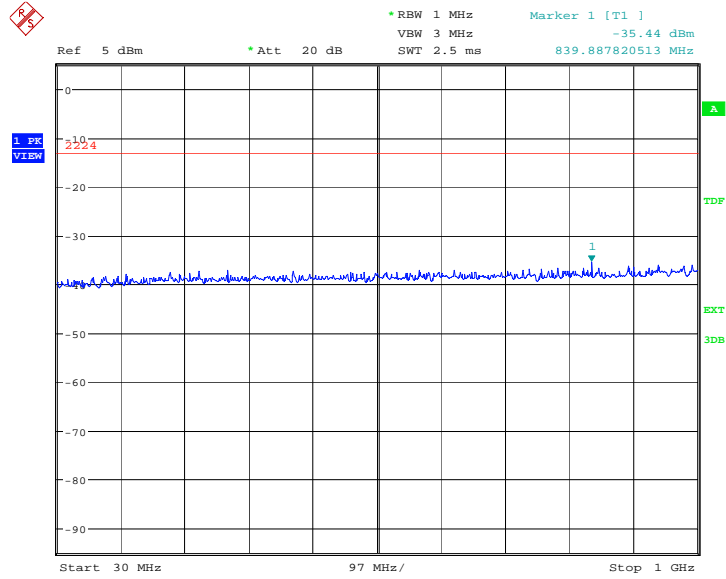
Date: 19.APR.2013 06:51:54

A.8.3.18 Channel 9538: 15GHz –20GHz
Spurious emission limit –13dBm.



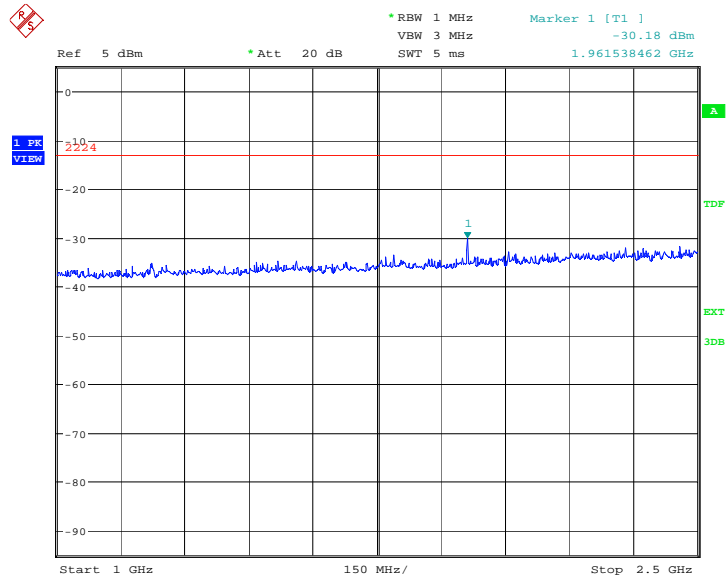
Date: 19.APR.2013 06:52:22

A. 8.3.19 Idle mode: 30MHz –1GHz
Spurious emission limit –13dBm.



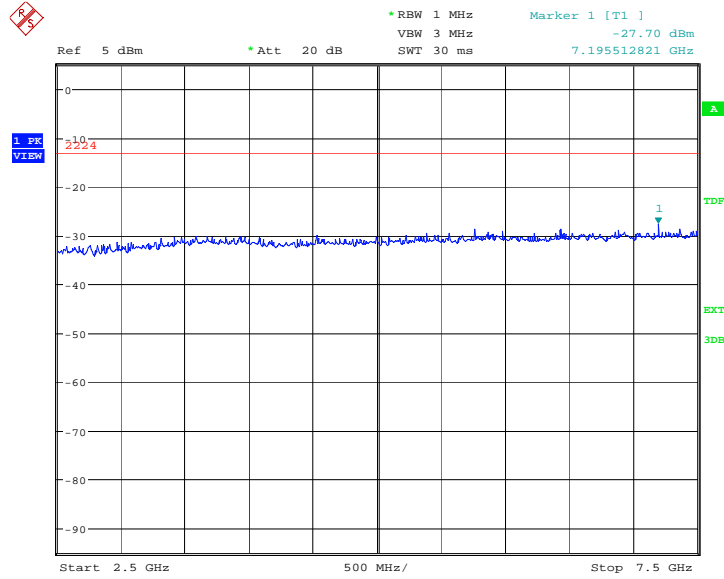
Date: 19.APR.2013 08:07:10

A.8.3.20 Idle mode: 1GHz –2.5GHz
Spurious emission limit –13dBm.



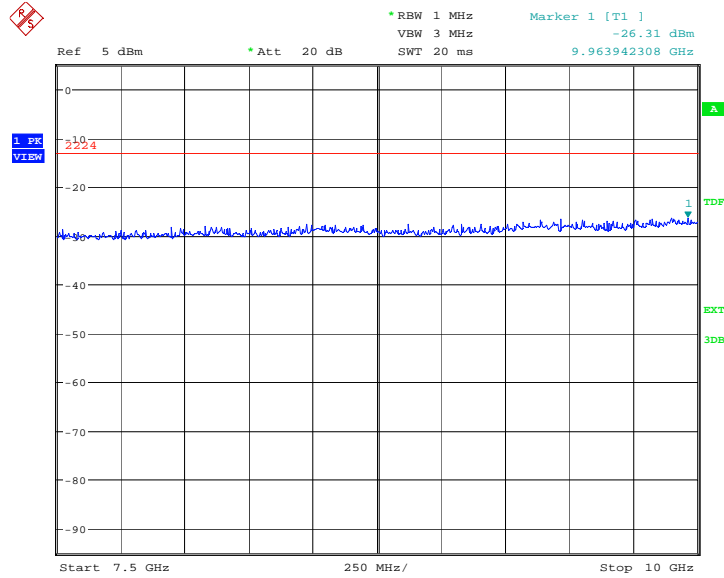
Date: 19.APR.2013 08:07:38

A.8.3.21 Idle mode: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



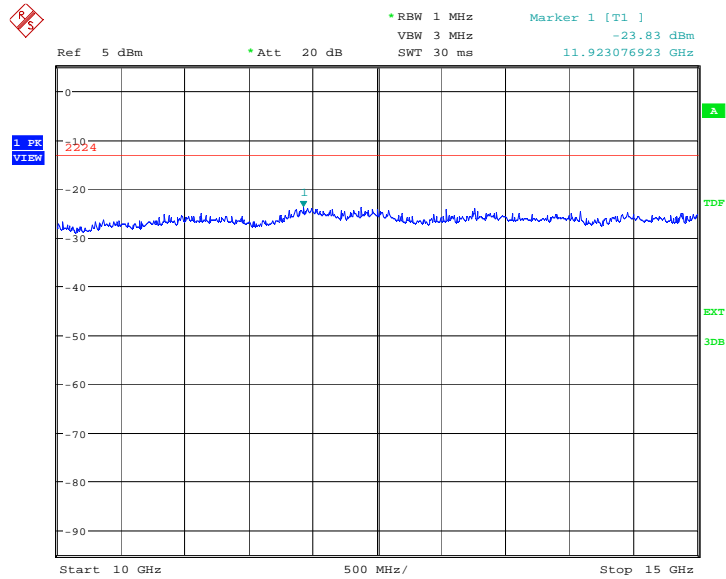
Date: 19.APR.2013 08:08:06

A.8.3.22 Idle mode: 7.5GHz –10GHz
Spurious emission limit –13dBm.



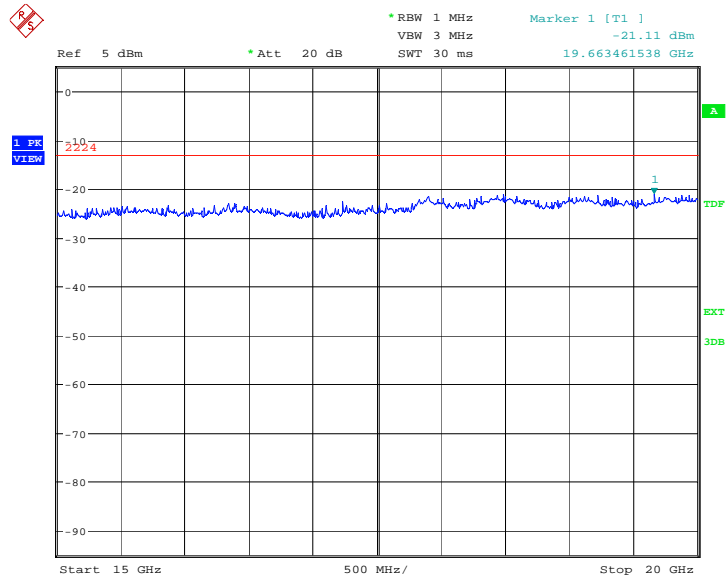
Date: 19.APR.2013 08:08:34

A.8.3.23 Idle mode: 10GHz –15GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 08:09:02

A.8.3.24 Idle mode: 15GHz –20GHz
Spurious emission limit –13dBm.

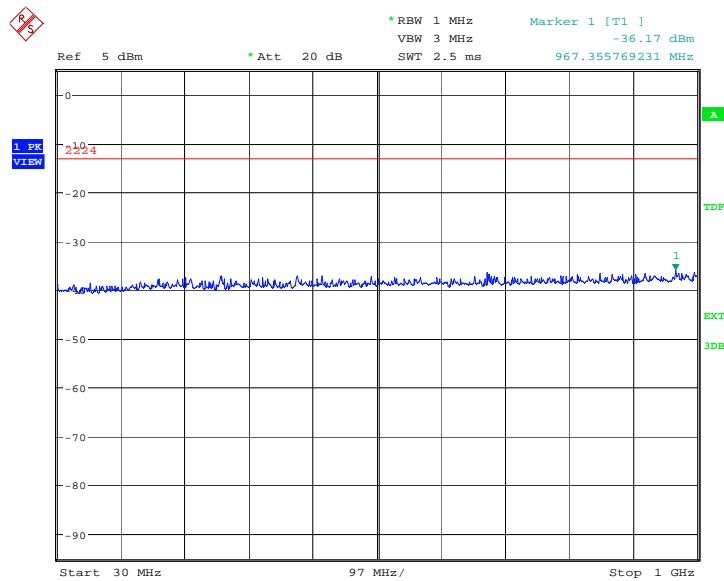


Date: 19.APR.2013 08:09:30

WCDMA Band IV

A. 8.3.25 Channel 1312: 30MHz –1GHz

Spurious emission limit –13dBm.

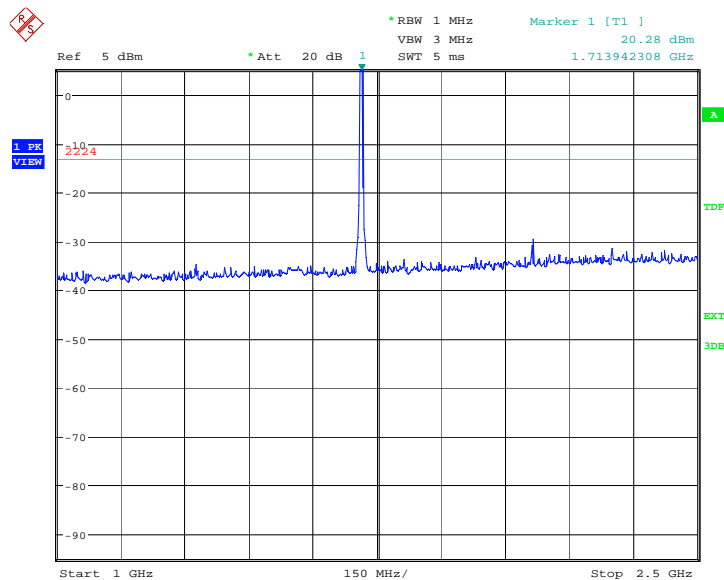


Date: 19.APR.2013 07:13:50

A. 8.3.26 Channel 1312: 1GHz –2.5GHz

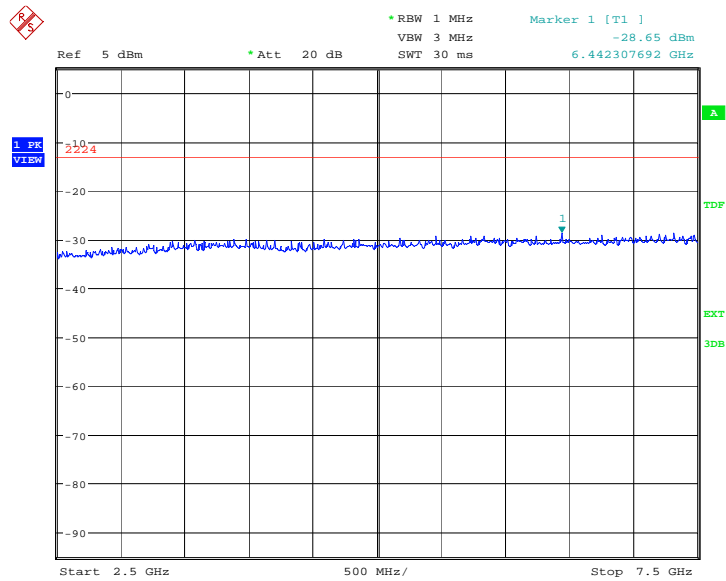
Spurious emission limit –13dBm.

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



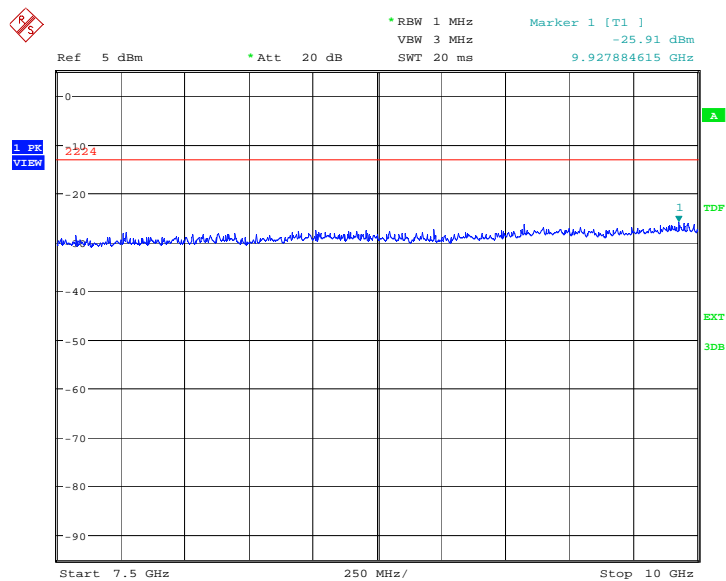
Date: 19.APR.2013 07:14:18

A. 8.3.27 Channel 1312: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



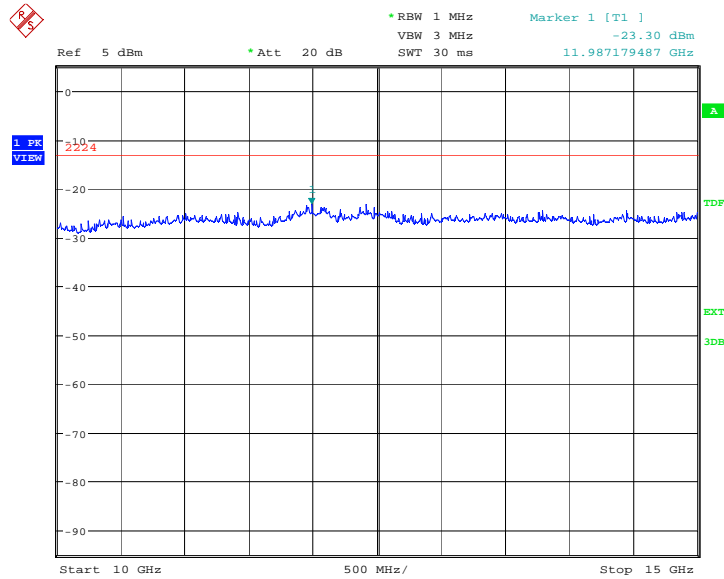
Date: 19.APR.2013 07:14:46

A. 8.3.28 Channel 1312: 7.5GHz –10GHz
Spurious emission limit –13dBm.



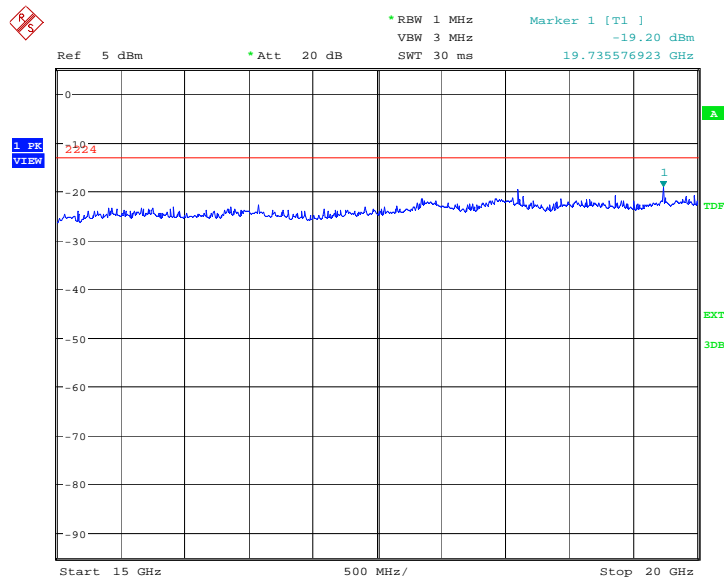
Date: 19.APR.2013 07:15:15

A. 8.3.29 Channel 1312: 10GHz –15GHz
Spurious emission limit –13dBm.



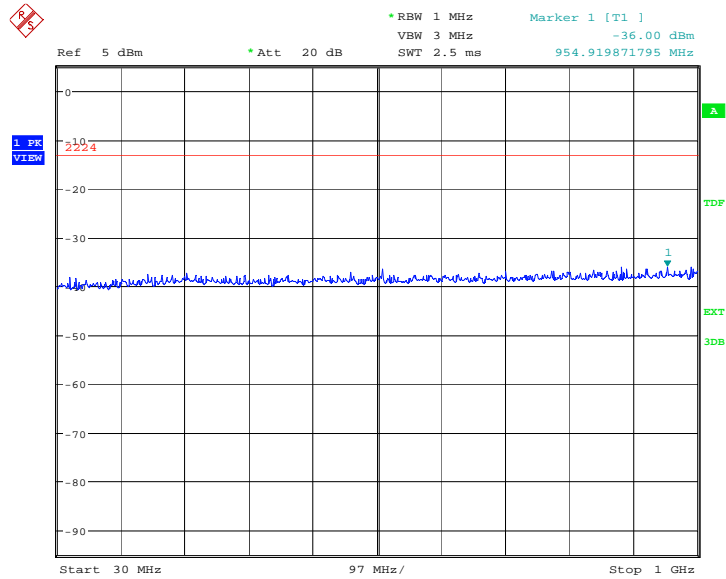
Date: 19.APR.2013 07:15:43

A. 8.3.30 Channel 1312: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:16:11

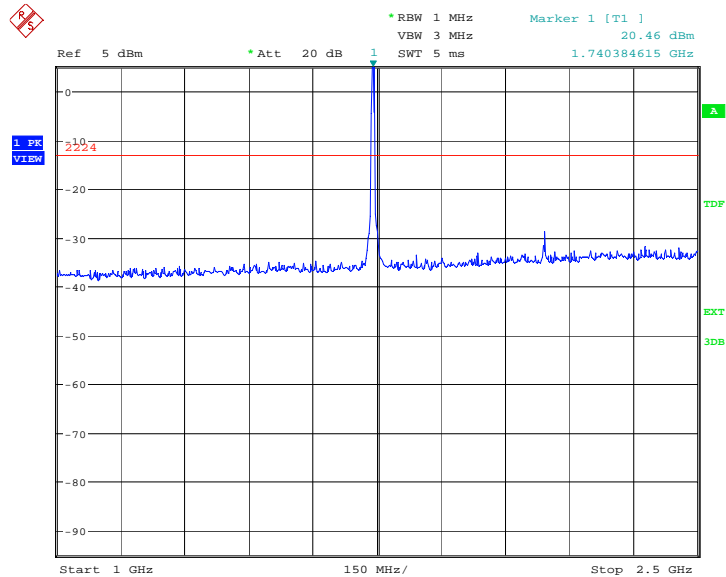
A. 8.3.31 Channel 1450: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:16:42

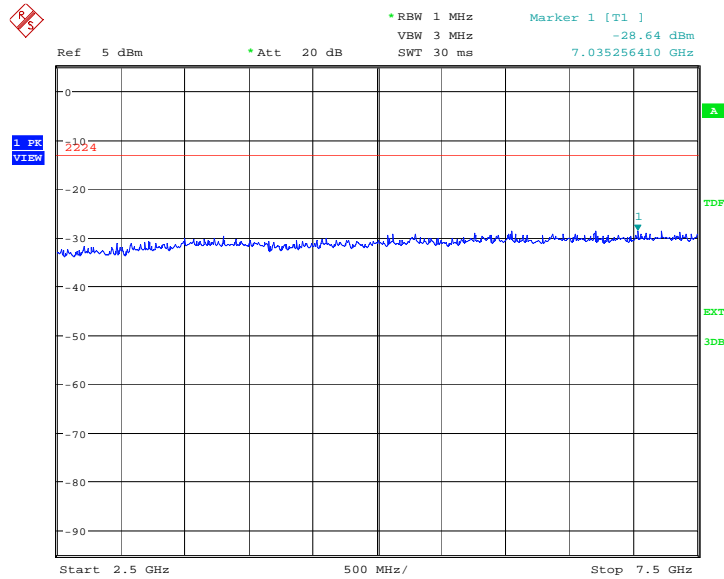
A. 8.3.32 Channel 1450: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



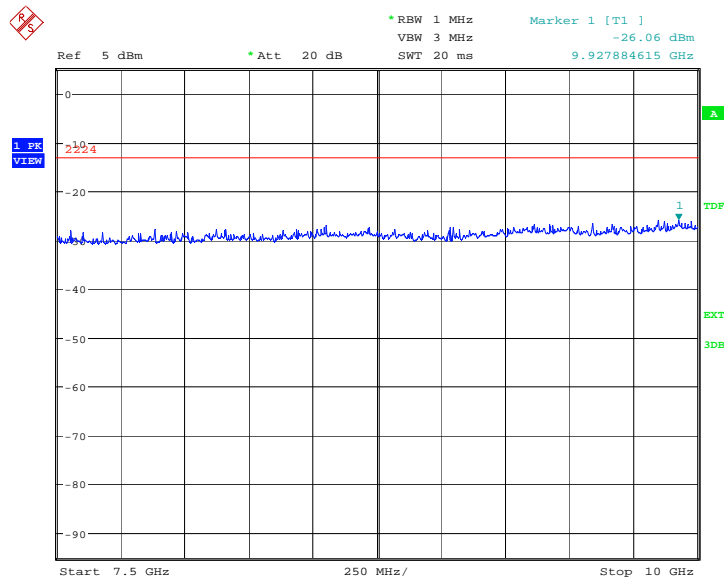
Date: 19.APR.2013 07:17:10

A. 8.3.33 Channel 1450: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



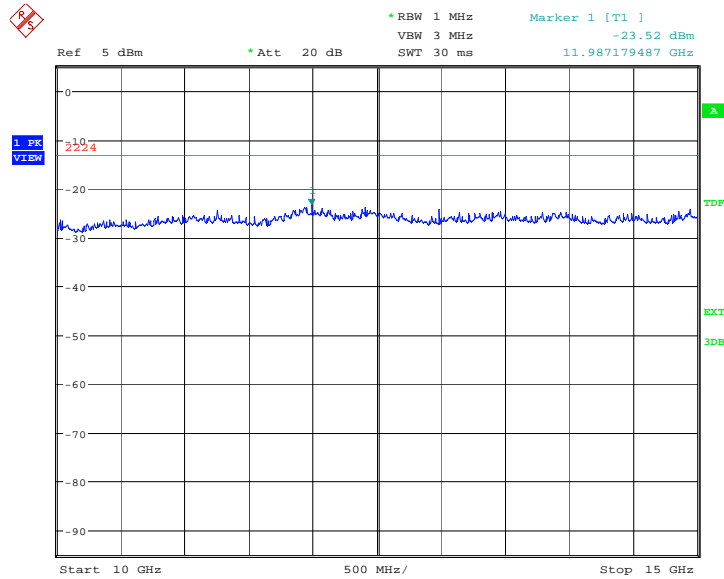
Date: 19.APR.2013 07:17:38

A. 8.3.34 Channel 1450: 7.5GHz –10GHz
Spurious emission limit –13dBm.



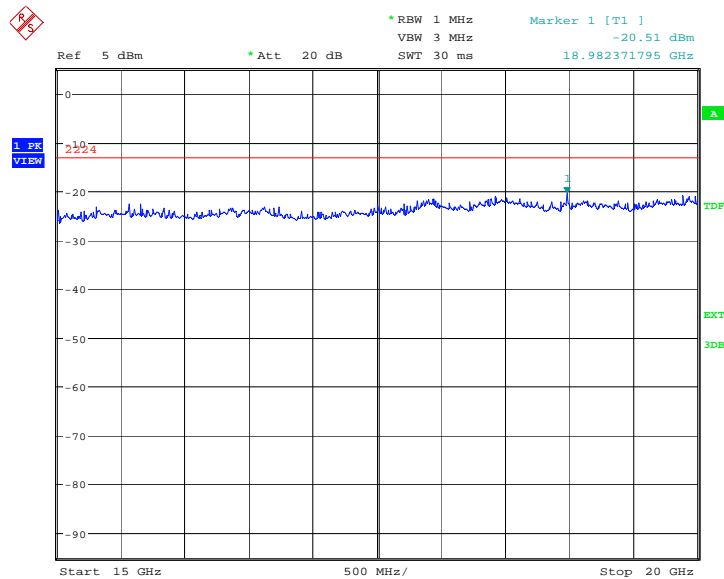
Date: 19.APR.2013 07:18:06

A. 8.3.35 Channel 1450: 10GHz –15GHz
Spurious emission limit –13dBm.



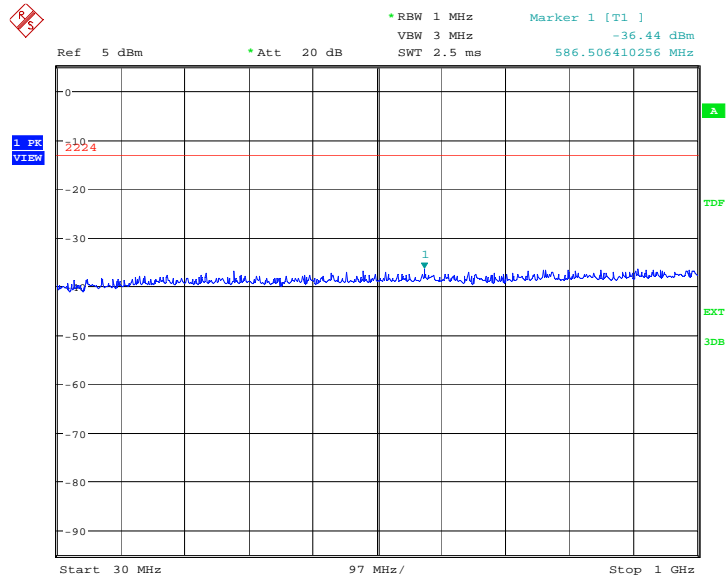
Date: 19.APR.2013 07:18:34

A. 8.3.36 Channel 1450: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:19:02

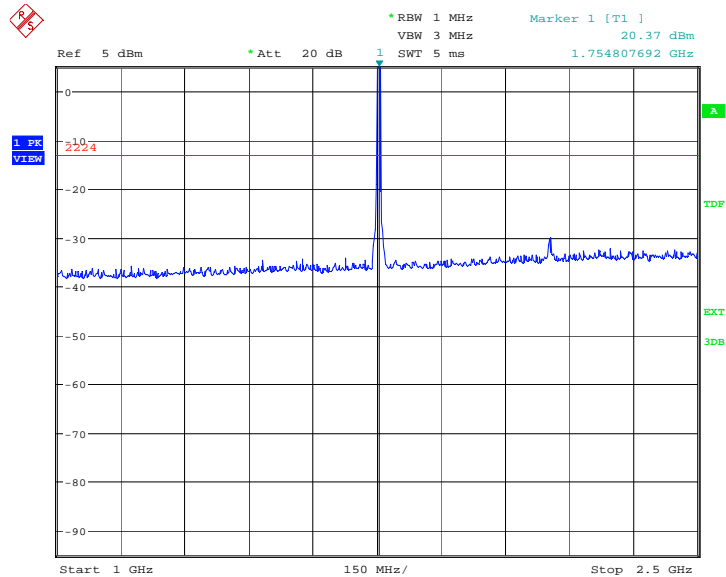
A. 8.3.37 Channel 1513: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:19:33

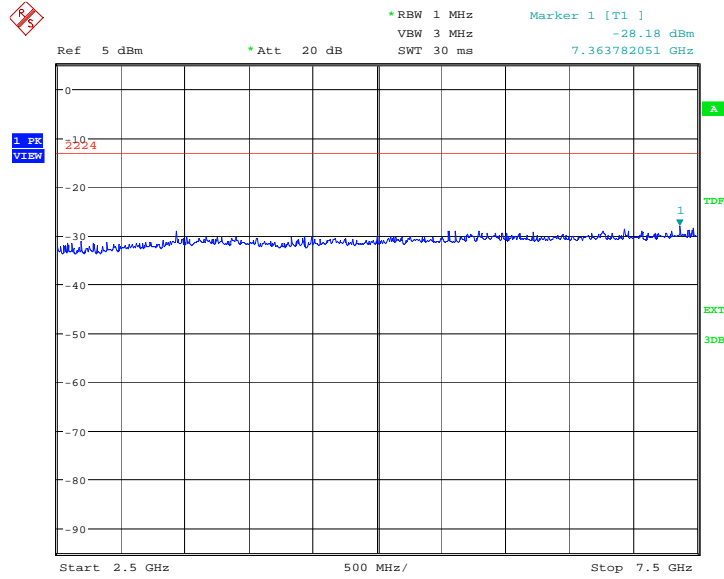
A. 8.3.38 Channel 1513: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



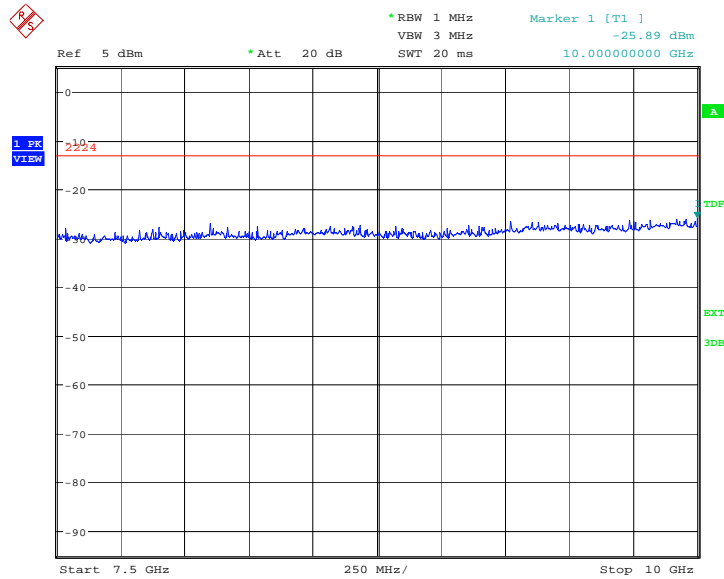
Date: 19.APR.2013 07:20:01

A. 8.3.39 Channel 1513: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



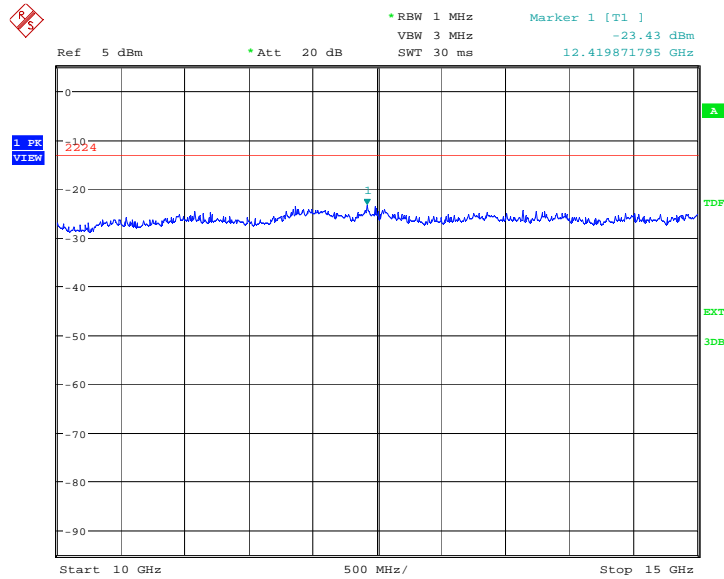
Date: 19.APR.2013 07:20:30

A. 8.3.40 Channel 1513: 7.5GHz –10GHz
Spurious emission limit –13dBm.



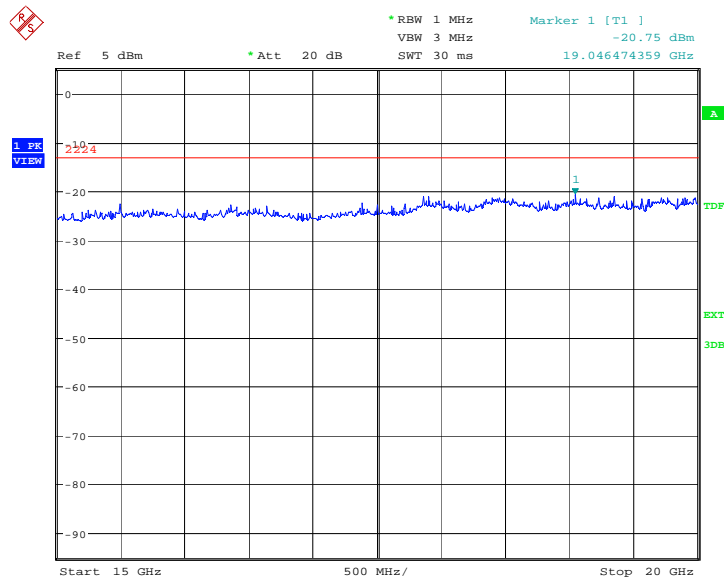
Date: 19.APR.2013 07:20:58

A. 8.3.41 Channel 1513: 10GHz –15GHz
Spurious emission limit –13dBm.



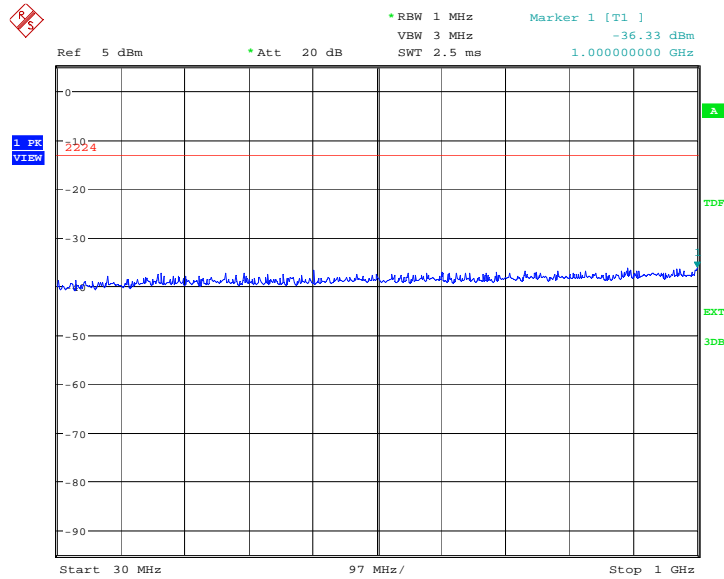
Date: 19.APR.2013 07:21:26

A. 8.3.42 Channel 1513: 15GHz –20GHz
Spurious emission limit –13dBm.



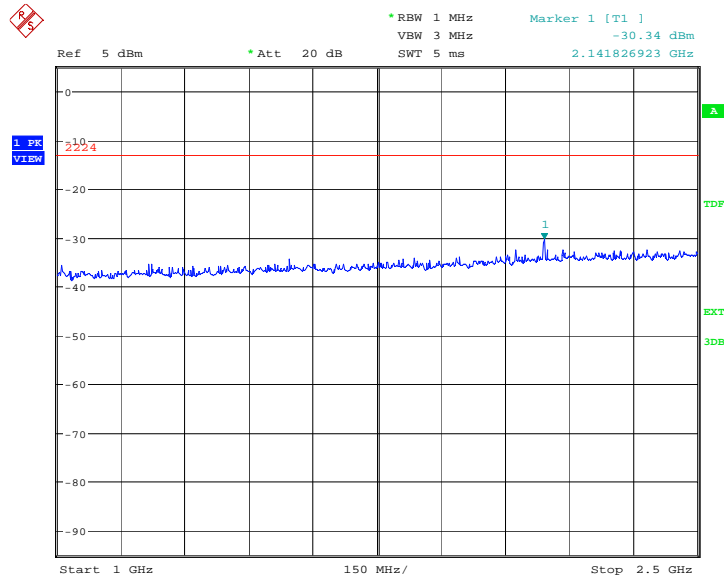
Date: 19.APR.2013 07:21:54

A. 8.3.43 Idle mode: 30MHz –1GHz
Spurious emission limit –13dBm.



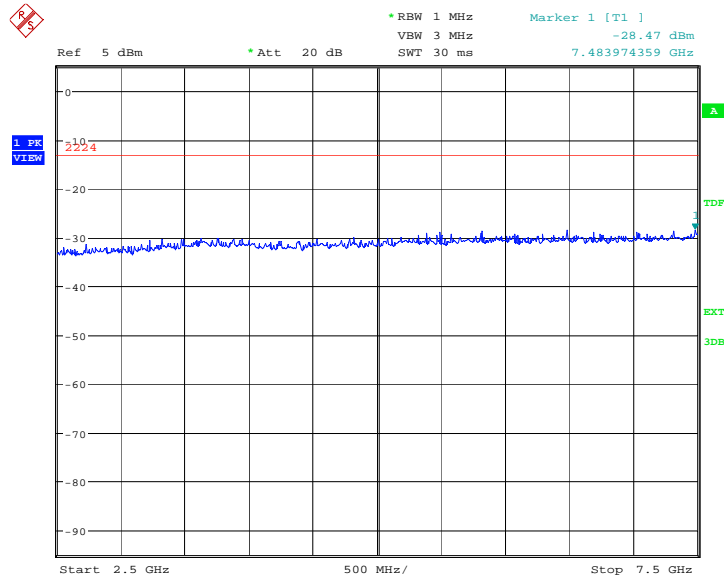
Date: 19.APR.2013 07:23:41

A.8.3.44 Idle mode: 1GHz –2.5GHz
Spurious emission limit –13dBm.



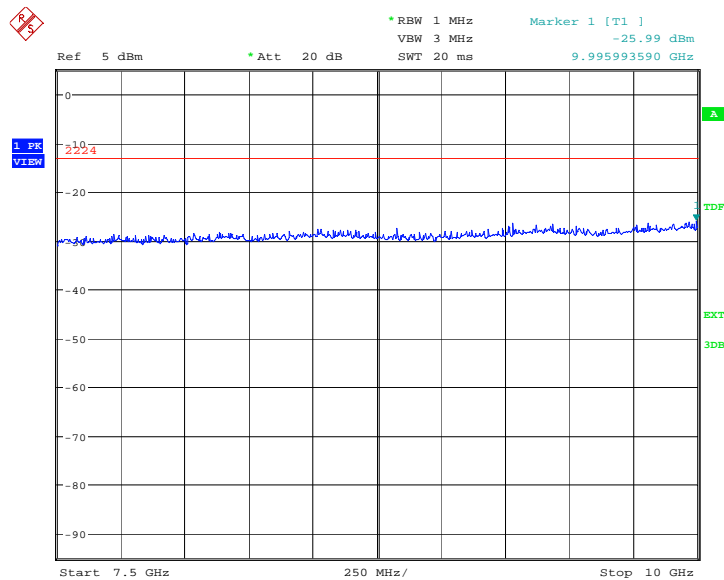
Date: 19.APR.2013 07:24:09

A.8.3.45 Idle mode: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



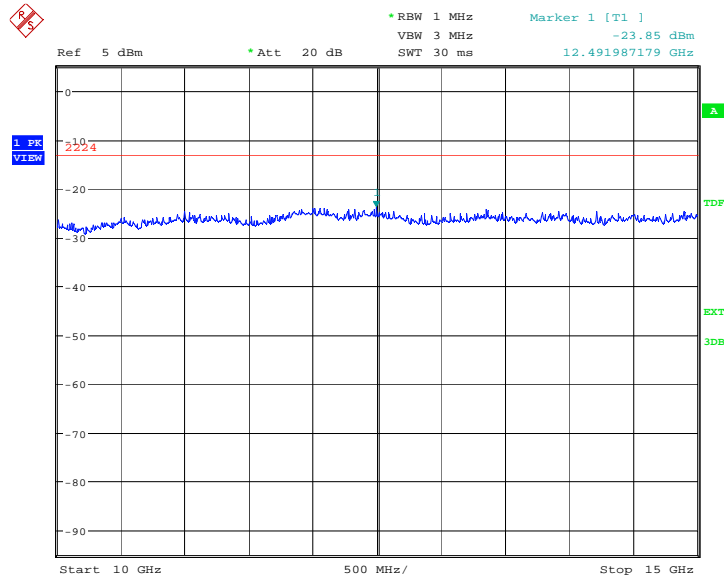
Date: 19.APR.2013 07:24:37

A.8.3.46 Idle mode: 7.5GHz –10GHz
Spurious emission limit –13dBm.



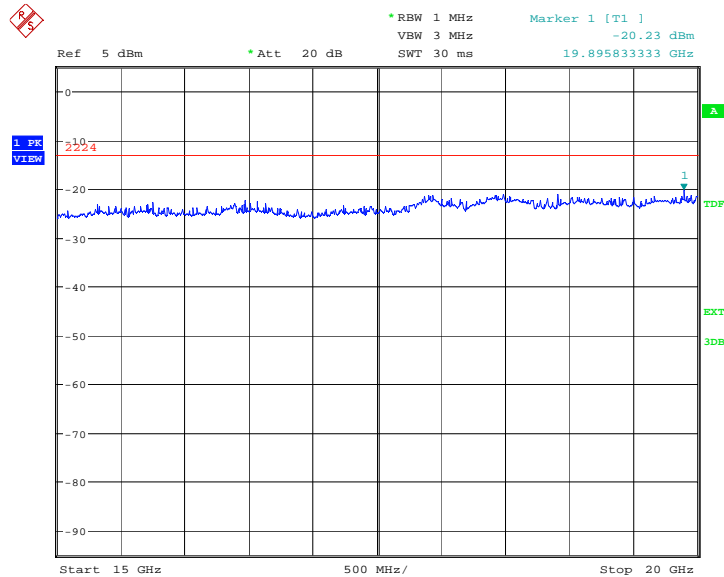
Date: 19.APR.2013 07:25:05

A.8.3.47 Idle mode: 10GHz –15GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:25:34

A.8.3.48 Idle mode: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 19.APR.2013 07:26:02

END OF REPORT