



TEST REPORT

No. 2012TAR227

for

TCT Mobile Limited

UMTS Dualband / GSM Quadband mobile phone

Model Name: Gemini

Marketing Name: Alcatel OT871A

FCC ID: RAD264

with

Hardware Version: 05

Software Version: SW980

Issued Date: Apr 25, 2012

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. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

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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

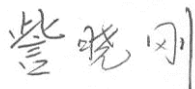
1.2. Testing Environment

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

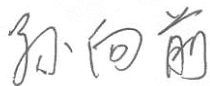
1.3. Project data

Testing Start Date: Apr 15, 2012
Testing End Date: Apr 25, 2012

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, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

2.2. Manufacturer Information

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

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

3.1. About EUT

Description	UMTS Dualband / GSM Quadband mobile phone
Model Name	Gemini
Marketing Name	Alcatel OT871A
FCC ID	RAD264
Frequency	GSM 850MHz; PCS 1900MHz; WCDMA Band II; WCDMA Band V
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	27.30dBm maximum EIRP measured for WCDMA Band II
Extreme vol. Limits	3.5VDC to 4.2VDC (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
N06	013160000060290	05	SW980
N07	013160000060142	05	SW980

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Battery
AE3	Charger
AE4	Charger
AE5	Headset
AE6	Headset
AE7	Data Cable
AE8	Data Cable

AE1

Model	CAB3120000C1
Manufacturer	BYD
Capacitance	850mAh
Nominal Voltage	3.7V

AE2

Model	CAB3120000C3
Manufacturer	BAK
Capacitance	850mAh
Nominal Voltage	3.7V

AE3

Model	CBA3001AG0C1
Manufacturer	BYD
Length of DC line	120 cm

AE4

Model	CBA3001AG0C2
Manufacturer	Tenpao
Length of DC line	120 cm

AE5

Model	CCB3160A15C2
Manufacturer	Lianyun

AE6

Model	CCB3160A15C1
Manufacturer	Juwei

AE7

Model	CDA3122005C2
Manufacturer	Shenghua

AE8

Model	CDA3122005C1
Manufacturer	Juwei

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

3.4. General Description

The Equipment Under Test (EUT) is a model of 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 10.1.09
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.09
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

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

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

7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESCI	100766	R&S	2012-12-06
2	Test Receiver	ESI40	831564/002	R&S	2012-07-12
3	BiLog Antenna	VULB9163	9163-175	Schwarzbeck	2012-07-05
4	BiLog Antenna	VULB9163	9163-302	Schwarzbeck	2012-07-10
5	Signal Generator	SMB100A	102063	R&S	2012-07-05
7	LISN	ESH2-Z5	829991/012	R&S	2012-07-20
8	Spectrum Analyzer	FSU26	200030	R&S	2012-12-18
9	Spectrum Analyzer	FSU46	100054	R&S	2012-10-14
10	Universal Radio Communication Tester	CMU200	100680	R&S	2012-12-23
11	Universal Radio Communication Tester	CMU200	109914	R&S	2012-07-21
12	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS	2012-08-31
13	Dual-Ridge Waveguide Horn Antenna	3117	00119021	ETS	2013-07-09
14	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2012-07-01
15	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2012-07-01
16	Climatic chamber	PL-2G	343074	ESPEC	2012-12-15

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. The power was measured with Rhode & Schwarz Spectrum Analyzer FSU (peak) These measurements were done at 3 frequencies, 1852.4 MHz, 1880.0MHz and 1907.6MHz for WCDMA Band II; 826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band V. (bottom, middle and top of operational frequency range).

Limit

According to FCC§2.1046.

A.1.2.2 Test Condition

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

WCDMA Band II

Measurement result

WCDMA	CH	Frequency(MHz)	output power(dBm)
(Band II)	9262	1852.4	23.04
	9400	1880.0	22.93
	9538	1907.6	22.95

WCDMA Band V

Measurement result

WCDMA	CH	Frequency(MHz)	output power(dBm)
(Band V)	4132	826.4	23.39
	4183	836.6	23.25
	4233	846.6	23.22

A.1.3 Radiated

A.1.3.1 Description

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

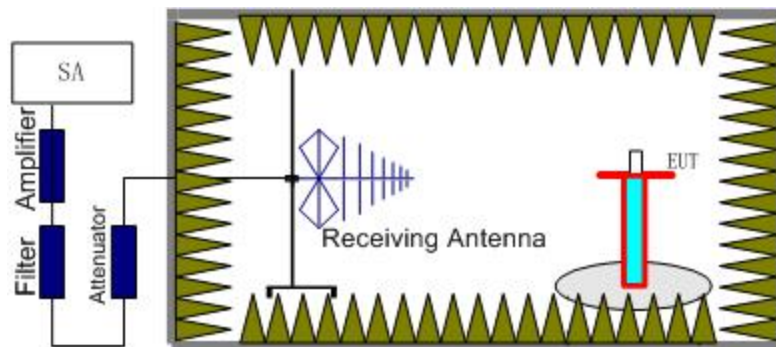
Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

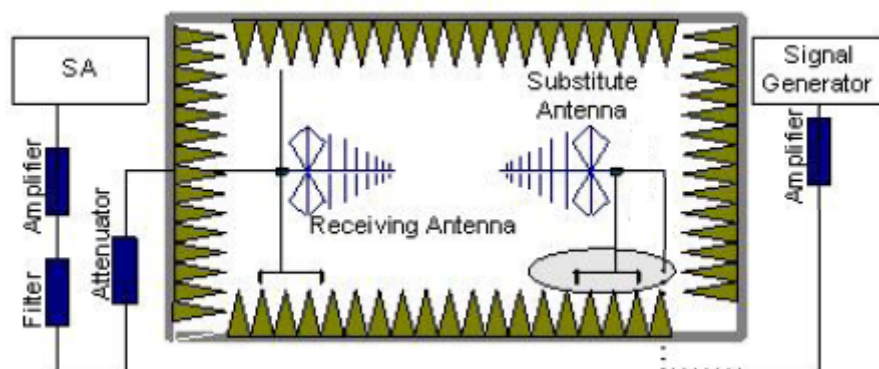
A.1.3.2 Method of Measurement

The measurements procedures in TIA-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:

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

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 _{ci} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Peak EIRP(dBm)	Polarization
1852.4	-24.75	6.02	-50.00	-4.55	23.78	H
1880	-24.22	7.05	-50.00	-4.43	23.16	H
1907.6	-22.03	8.90	-50.00	-4.31	23.11	H

Frequency: 1907.6MHz

Peak EIRP(dBm)= P_{Mea}(-18.11dBm)- P_{ci}(8.90dB)- P_{Ag}(-50.00dB)-G_a (-4.31dB) =27.30dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

WCDMA Band V-ERP

Limits

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

Measurement result

Frequency(MHz)	P _{Mea} (dBm)	P _{ci} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dBm)	Peak ERP(dBm)	Polarization
826.4	-26.95	2.25	-53.00	0.85	2.15	20.80	V
836.6	-27.38	2.26	-53.00	0.90	2.15	20.31	V
846.6	-26.70	2.26	-53.00	0.94	2.15	20.95	V

Frequency: 826.4MHz

Peak ERP(dBm)= P_{Mea}(-21.69dBm)- P_{ci}(2.25dB)- P_{Ag}(-53.00dB)-G_a (0.85dB)-2.15dBm
=26.06dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

A.2 EMISSION LIMIT

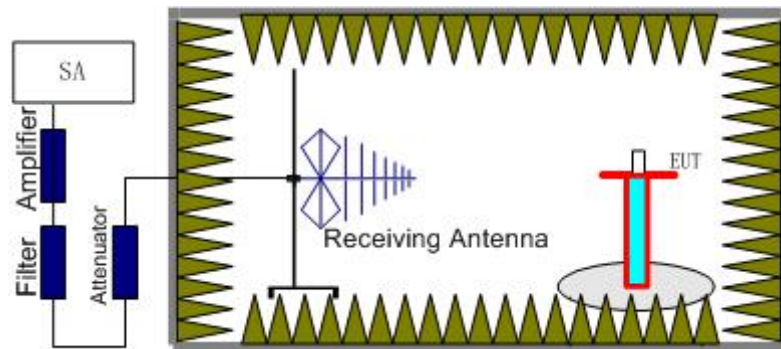
A.2.1 Measurement Method

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

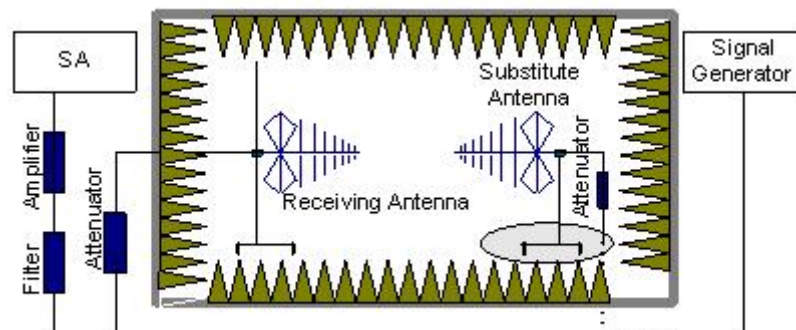
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238 and Part 24.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II and WCDMA Band V.

The procedure of radiated spurious emissions is as follows:

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



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (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 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

A.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 V (826.4MHz, 836.6MHz and 846.6MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II and WCDMA Band V 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

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 II Mode Channel 9262/1852.4MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
3707.11	-40.27	5.34	-8.15	-37.46	-13.00	H
5556.78	-61.05	8.73	-10.02	-59.76	-13.00	H
9053.56	-65.10	8.32	-12.60	-60.82	-13.00	H
10107.49	-72.15	8.45	-12.42	-68.18	-13.00	V
13253.88	-65.08	10.39	-13.55	-61.92	-13.00	H
15511.44	-55.46	10.98	-13.39	-53.05	-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
3762.37	-45.83	5.91	-8.21	-43.53	-13.00	V
5639.32	-57.34	9.56	-10.06	-56.84	-13.00	H
7516.11	-63.51	8.16	-11.42	-60.25	-13.00	V
10117.96	-63.87	8.47	-12.42	-59.92	-13.00	V
13153.69	-62.12	10.26	-13.45	-58.93	-13.00	V
15511.44	-53.21	10.98	-13.39	-50.80	-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
3817.64	-47.50	5.59	-8.28	-44.81	-13.00	V
5721.62	-55.22	10.08	-10.09	-55.21	-13.00	H
7686.37	-67.03	7.86	-11.59	-63.30	-13.00	H
10107.49	-64.89	8.45	-12.42	-60.92	-13.00	H
12517.69	-62.42	9.73	-12.72	-59.43	-13.00	H
17070.54	-59.55	11.98	-12.53	-59.00	-13.00	H

WCDMA BAND V Mode Channel 4132/826.4MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction	Peak ERP(dBm)	Limit (dBm)	Polarization
				(dBm)			
1655.36	-39.71	3.49	-5.42	2.15	-39.93	-13.00	V
2482.60	-44.49	4.22	-5.35	2.15	-45.51	-13.00	V
3314.24	-69.67	5.07	-7.45	2.15	-69.44	-13.00	V
4134.46	-70.56	5.90	-8.58	2.15	-70.03	-13.00	V
4967.67	-70.54	7.18	-9.64	2.15	-70.23	-13.00	V
5788.62	-68.18	11.49	-10.12	2.15	-71.70	-13.00	H

WCDMA BAND V Mode Channel 4183/836.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction	Peak ERP(dBm)	Limit (dBm)	Polarization
				(dBm)			
3349.49	-64.93	5.58	-7.54	2.15	-65.12	-13.00	V
4374.16	-67.57	6.43	-8.72	2.15	-67.43	-13.00	V
7187.53	-66.05	8.82	-11.21	2.15	-65.81	-13.00	V
8094.77	-66.80	7.50	-11.96	2.15	-64.49	-13.00	V
8484.24	-68.24	7.79	-12.19	2.15	-65.99	-13.00	V
9868.05	-64.50	8.47	-12.45	2.15	-62.67	-13.00	H

WCDMA BAND V Mode Channel 4233/846.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction	Peak ERP(dBm)	Limit (dBm)	Polarization
				(dBm)			
1650.74	-65.13	3.57	-5.44	2.15	-65.41	-13.00	H
2481.46	-52.22	4.24	-5.34	2.15	-53.27	-13.00	V
3305.99	-68.34	4.98	-7.43	2.15	-68.04	-13.00	H
4137.31	-68.13	5.86	-8.58	2.15	-67.56	-13.00	V
4964.47	-67.17	7.17	-9.64	2.15	-66.85	-13.00	V
5789.31	-68.63	11.51	-10.12	2.15	-72.17	-13.00	V

A.3 CONDUCTED EMISSION

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

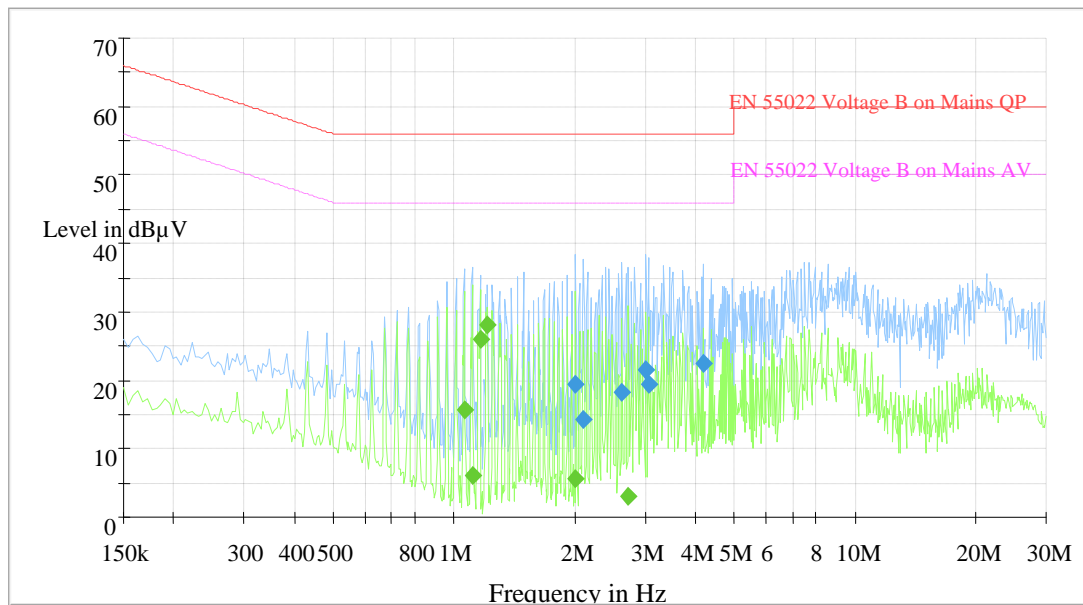
A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (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-AE3



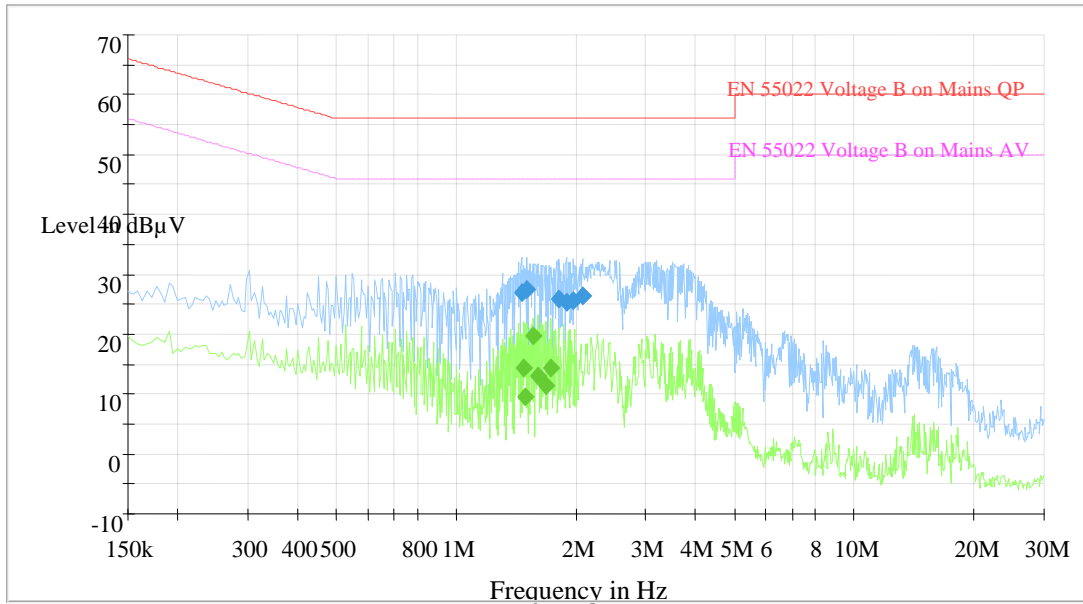
Final Result 1

Frequency (MHz)	QuasiPeak (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
2.010000	19.5	GND	L1	9.8	36.5	56.0
2.102280	14.4	GND	N	9.8	41.6	56.0
2.631258	18.3	GND	N	9.8	37.7	56.0
3.010559	21.5	GND	N	9.8	34.5	56.0
3.055943	19.5	GND	N	9.8	36.5	56.0
4.184149	22.4	GND	L1	9.8	33.6	56.0

Final Result 2

Frequency (MHz)	Average (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
1.063500	15.7	GND	L1	9.8	30.3	46.0
1.113000	6.0	GND	N	9.8	40.0	46.0
1.162500	25.9	GND	N	9.8	20.1	46.0
1.212000	28.0	GND	N	9.8	18.0	46.0
2.010000	5.5	GND	L1	9.8	40.5	46.0
2.724745	3.1	GND	L1	9.8	42.9	46.0

WCDMA Band II-AE4



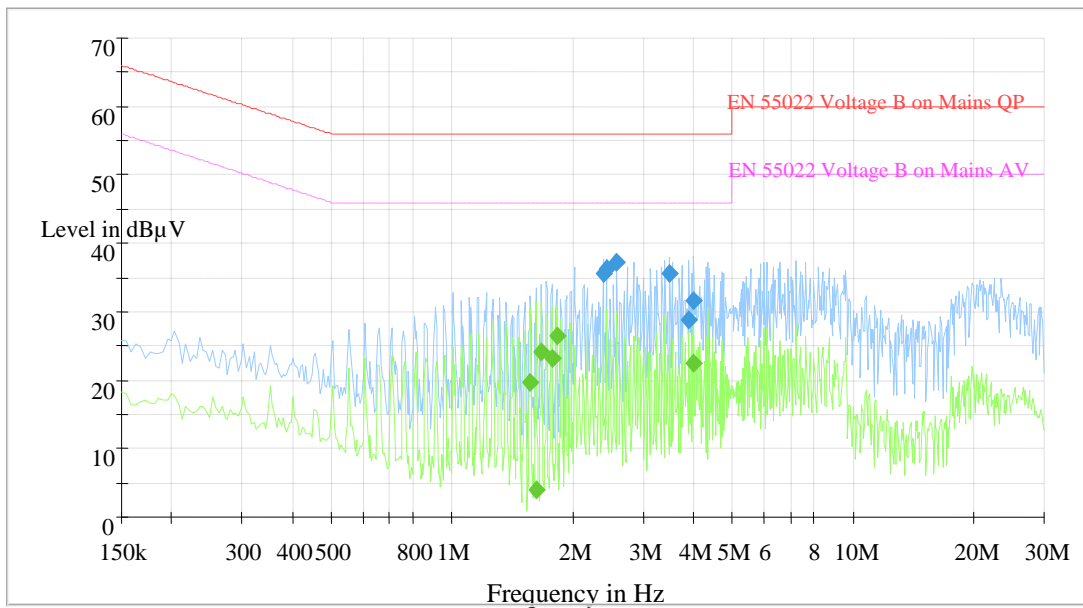
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.459500	26.9	GND	N	9.8	29.1	56.0
1.509000	27.6	GND	N	9.8	28.4	56.0
1.819500	25.9	GND	N	9.8	30.1	56.0
1.891500	25.3	GND	N	9.8	30.7	56.0
1.968000	25.5	GND	N	9.8	30.5	56.0
2.081414	26.4	GND	N	9.8	29.6	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.482000	14.5	GND	N	9.8	31.5	46.0
1.495500	9.5	GND	N	9.8	36.5	46.0
1.558500	19.6	GND	N	9.8	26.4	46.0
1.608000	13.1	GND	L1	9.8	32.9	46.0
1.684500	11.5	GND	L1	9.8	34.5	46.0
1.734000	14.5	GND	N	9.8	31.5	46.0

WCDMA Band V-AE3



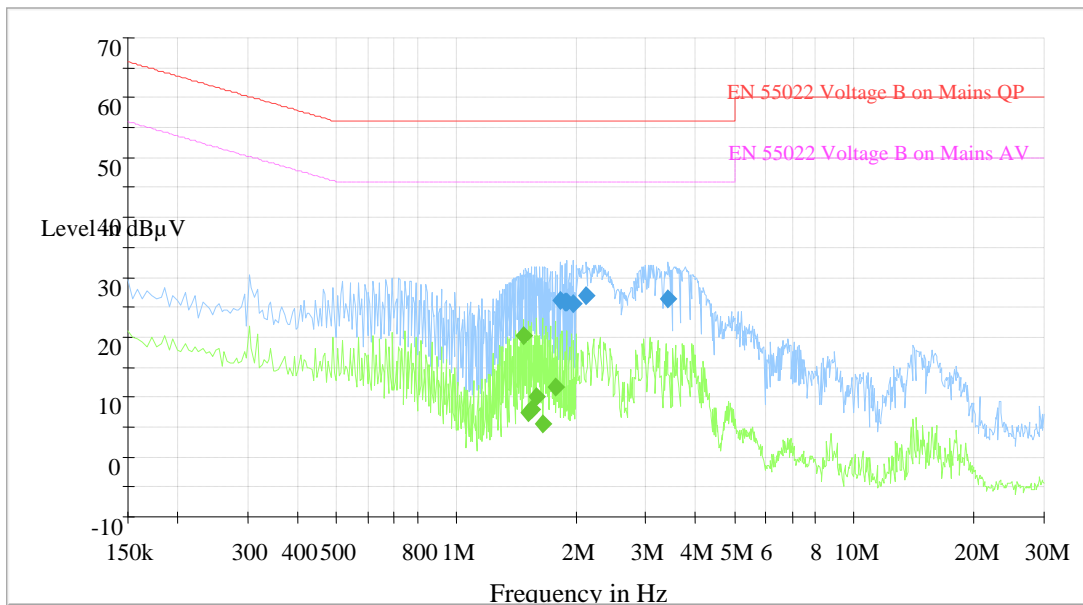
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.381454	35.5	GND	N	9.8	20.5	56.0
2.429441	36.2	GND	N	9.8	19.8	56.0
2.579284	37.1	GND	N	9.8	18.9	56.0
3.496463	35.7	GND	N	9.8	20.3	56.0
3.901955	28.7	GND	N	9.8	27.3	56.0
4.000485	31.7	GND	N	9.8	24.3	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.572000	19.7	GND	L1	9.8	26.3	46.0
1.621500	3.9	GND	L1	9.8	42.1	46.0
1.671000	24.0	GND	N	9.8	22.0	46.0
1.774500	23.1	GND	L1	9.8	22.9	46.0
1.824000	26.4	GND	L1	9.8	19.6	46.0
4.000485	22.5	GND	L1	9.8	23.5	46.0

WCDMA Band V-AE4



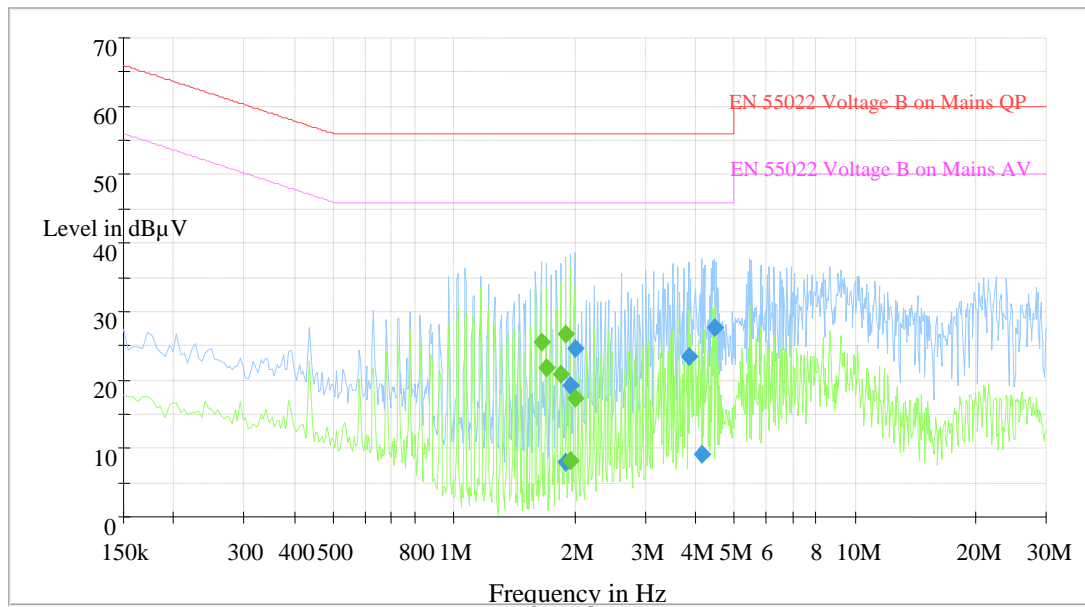
Final Result 1

Frequency (MHz)	QuasiPeak (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
1.824000	26.2	GND	N	9.8	29.8	56.0
1.873500	25.8	GND	N	9.8	30.2	56.0
1.900500	25.8	GND	N	9.8	30.2	56.0
1.977000	25.7	GND	N	9.8	30.3	56.0
2.123356	26.9	GND	N	9.8	29.1	56.0
3.410347	26.3	GND	N	9.8	29.7	56.0

Final Result 2

Frequency (MHz)	Average (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
1.473000	20.3	GND	N	9.8	25.7	46.0
1.522500	7.5	GND	N	9.8	38.5	46.0
1.549500	8.0	GND	N	9.8	38.0	46.0
1.599000	10.2	GND	L1	9.8	35.8	46.0
1.648500	5.5	GND	N	9.8	40.5	46.0
1.774500	11.7	GND	L1	9.8	34.3	46.0

MP3



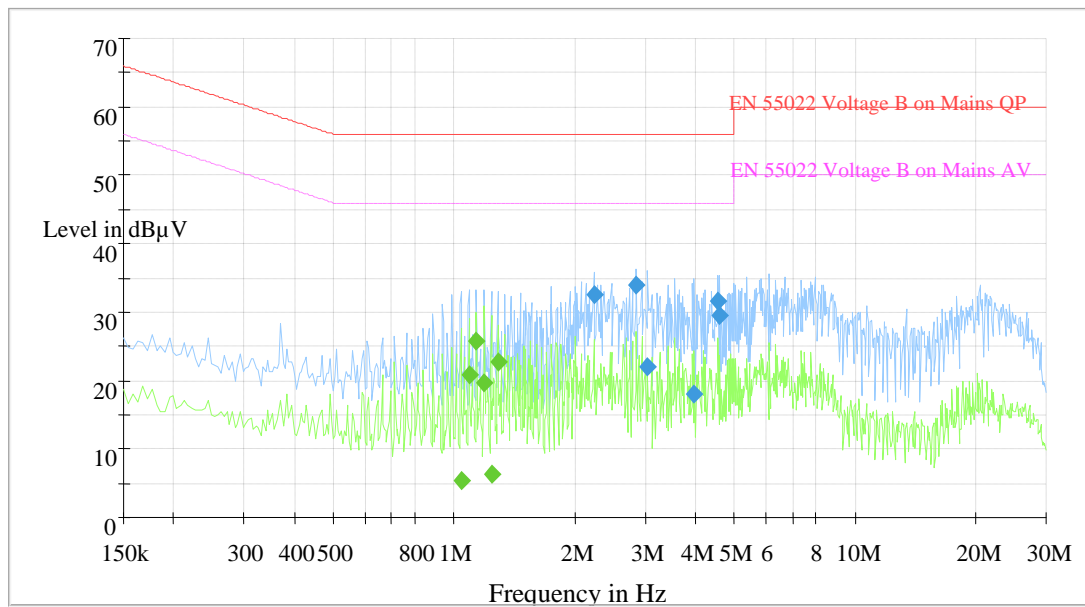
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.900500	7.9	GND	N	9.8	48.1	56.0
1.950000	19.3	GND	L1	9.8	36.7	56.0
1.999500	24.6	GND	N	9.8	31.4	56.0
3.844006	23.3	GND	N	9.8	32.7	56.0
4.142619	9.2	GND	N	9.8	46.8	56.0
4.464429	27.6	GND	N	9.8	28.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.648500	25.5	GND	L1	9.8	20.5	46.0
1.698000	21.9	GND	L1	9.8	24.1	46.0
1.851000	20.8	GND	N	9.8	25.2	46.0
1.900500	26.7	GND	L1	9.8	19.3	46.0
1.950000	8.1	GND	N	9.8	37.9	46.0
1.999500	17.2	GND	L1	9.8	28.8	46.0

CAMERA



Final Result 1

Frequency (MHz)	QuasiPeak (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
2.231944	32.5	GND	N	9.8	23.5	56.0
2.849840	33.9	GND	N	9.8	22.1	56.0
3.040739	22.1	GND	N	9.8	33.9	56.0
3.980582	18.0	GND	N	9.8	38.0	56.0
4.554390	31.7	GND	N	9.8	24.3	56.0
4.600048	29.5	GND	N	9.8	26.5	56.0

Final Result 2

Frequency (MHz)	Average (dB μV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
1.041000	5.5	GND	N	9.8	40.5	46.0
1.090500	20.8	GND	N	9.8	25.2	46.0
1.140000	25.7	GND	L1	9.8	20.4	46.0
1.189500	19.7	GND	L1	9.8	26.3	46.0
1.239000	6.3	GND	N	9.8	39.7	46.0
1.288500	22.6	GND	N	9.8	23.4	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 V, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C 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 4.2VDC 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	15	0.047
3.8	10	0.031
4.2	12	0.037

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	15	0.047
-20	12	0.037
-10	12	0.037
0	10	0.031
10	10	0.031
20	10	0.031
30	12	0.037
40	12	0.037
50	15	0.047

WCDMA Band V

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-5	0.014
3.8	-6	0.017
4.2	-2	0.006

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-6	0.017
-20	-5	0.014
-10	-5	0.014
0	-2	0.006
10	-2	0.006
20	-2	0.006
30	-5	0.014
40	-5	0.014
50	-6	0.017

A.5 OCCUPIED BANDWIDTH

A.5.1 Occupied Bandwidth Results

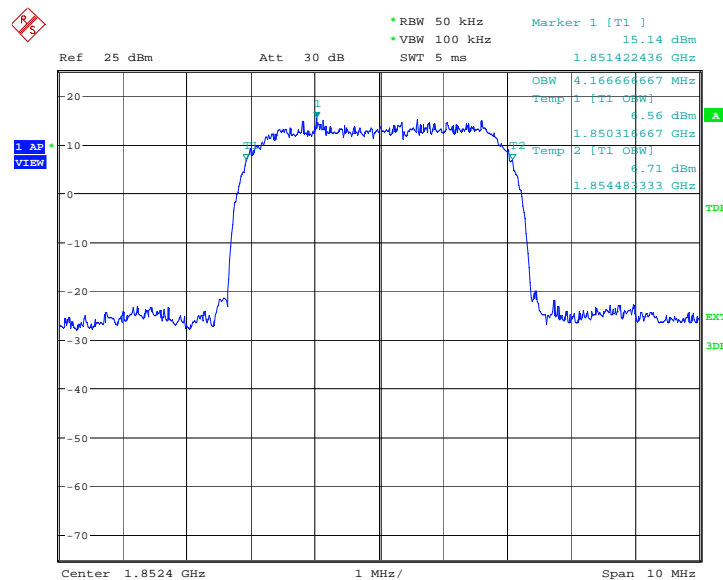
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA Band V. The table below lists the measured -20dBc BW. Spectrum analyzer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

WCDMA Band II(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
1852.4	4.166
1880.0	4.182
1907.6	4.182

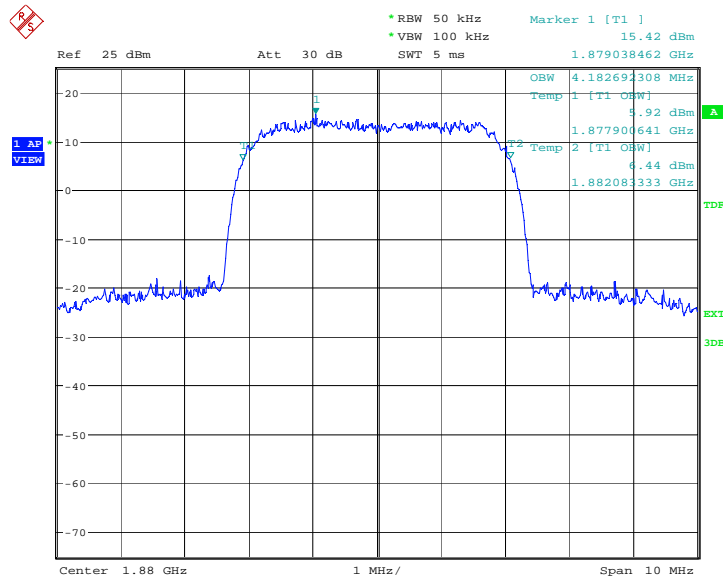
WCDMA Band II

Channel 9262-Occupied Bandwidth (-20dBc BW)



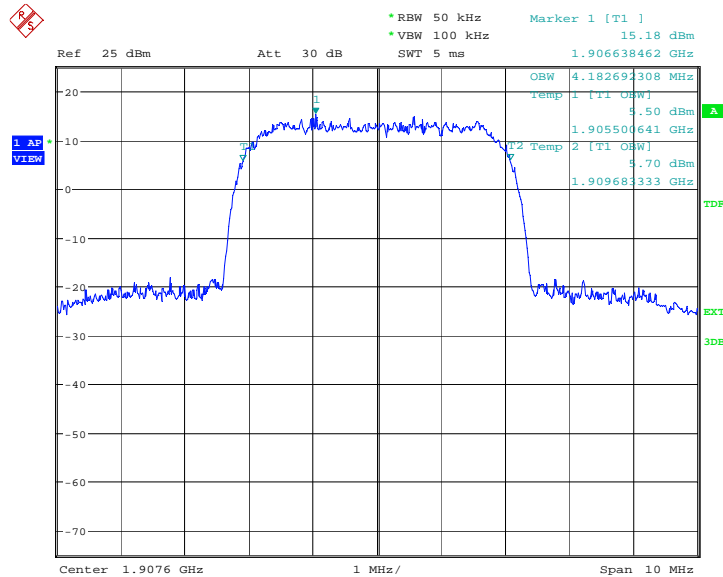
Date: 17.APR.2012 10:16:05

Channel 9400-Occupied Bandwidth (-20dBc BW)



Date: 17.APR.2012 10:16:39

Channel 9538-Occupied Bandwidth (-20dBc BW)



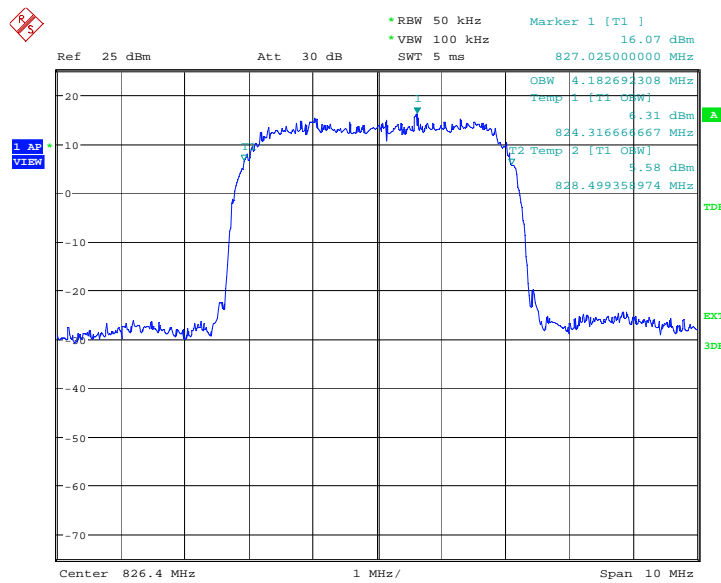
Date: 17.APR.2012 10:17:14

WCDMA Band V(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
826.4	4.182
836.6	4.166
846.6	4.166

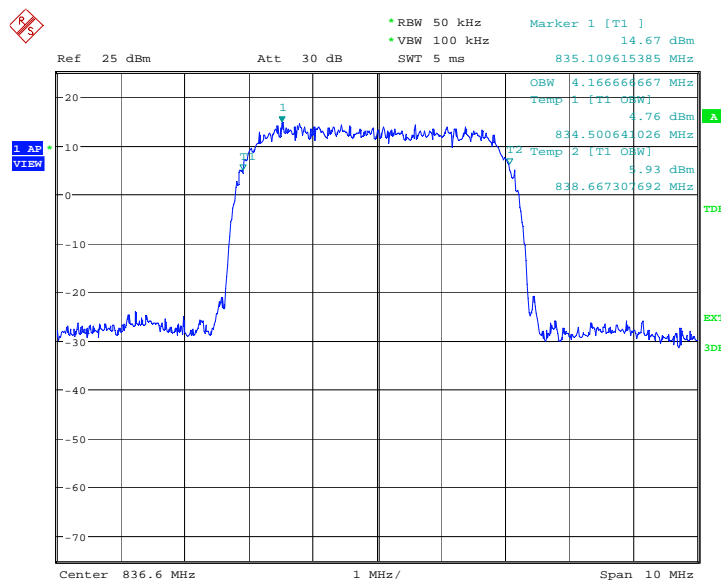
WCDMA Band V

Channel 4132-Occupied Bandwidth (-20dBc BW)



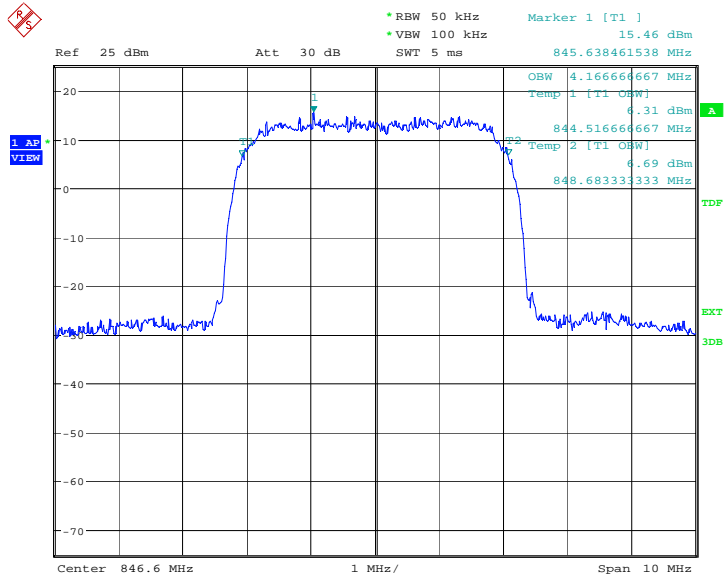
Date: 17.APR.2012 10:34:36

Channel 4183-Occupied Bandwidth (-20dBc BW)



Date: 17.APR.2012 10:35:10

Channel 4233-Occupied Bandwidth (-20dBc BW)



Date: 17.APR.2012 10:35:45

A.6 EMISSION BANDWIDTH

A.6.1 Emission Bandwidth Results

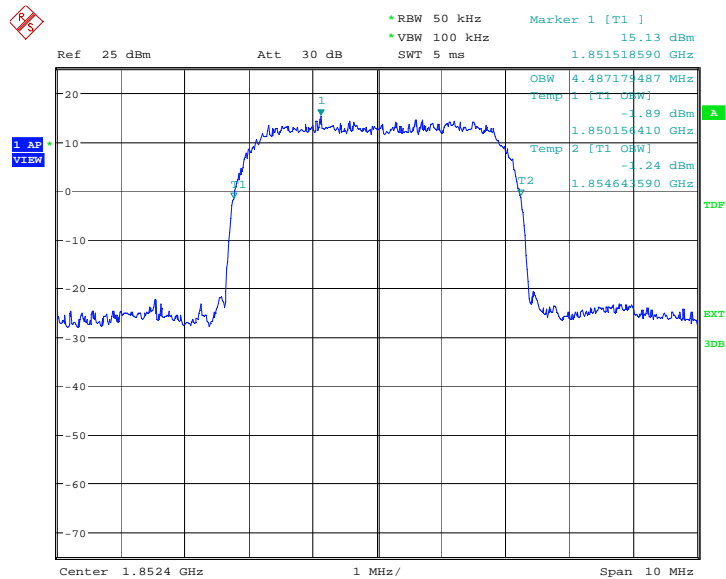
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA Band V. Table below lists the measured -26dBc BW. Spectrum analyzer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

WCDMA Band II(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
1852.4	4.487
1880.0	4.551
1907.6	4.551

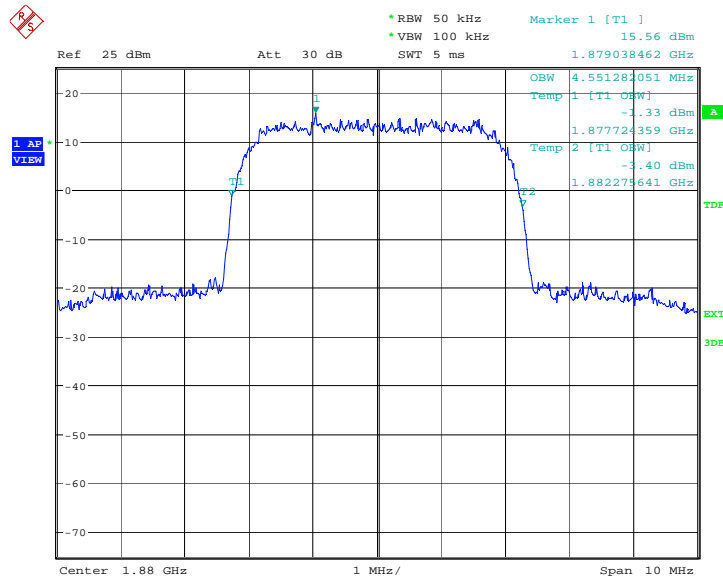
WCDMA Band II

Channel 9262-Occupied Bandwidth (-26dBc BW)



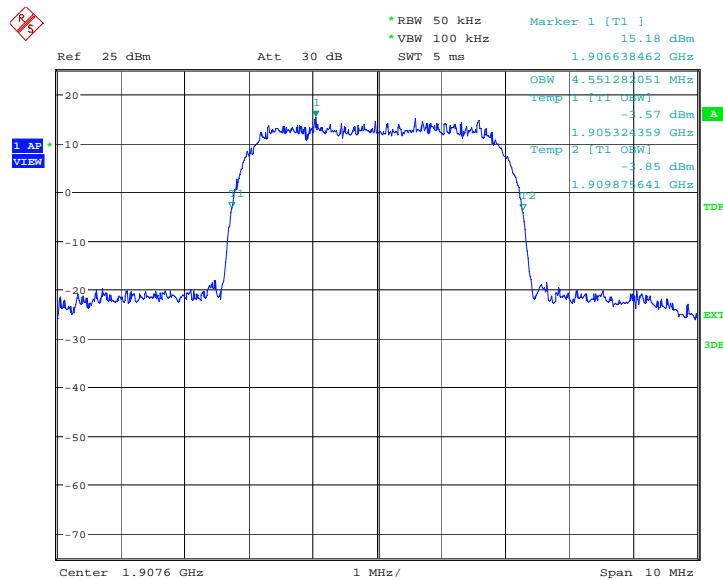
Date: 17.APR.2012 10:17:50

Channel 9400-Occupied Bandwidth (-26dBc BW)



Date: 17.APR.2012 10:18:24

Channel 9538-Occupied Bandwidth (-26dBc BW)



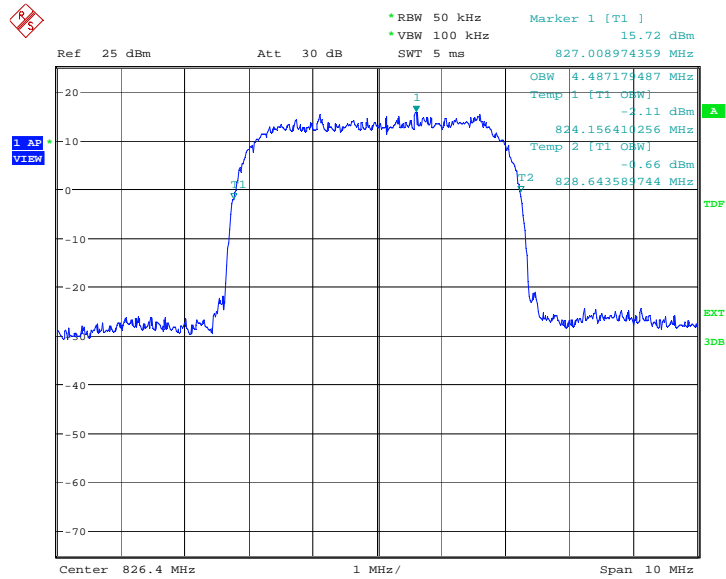
Date: 17.APR.2012 10:18:59

WCDMA Band V(-26dBc)

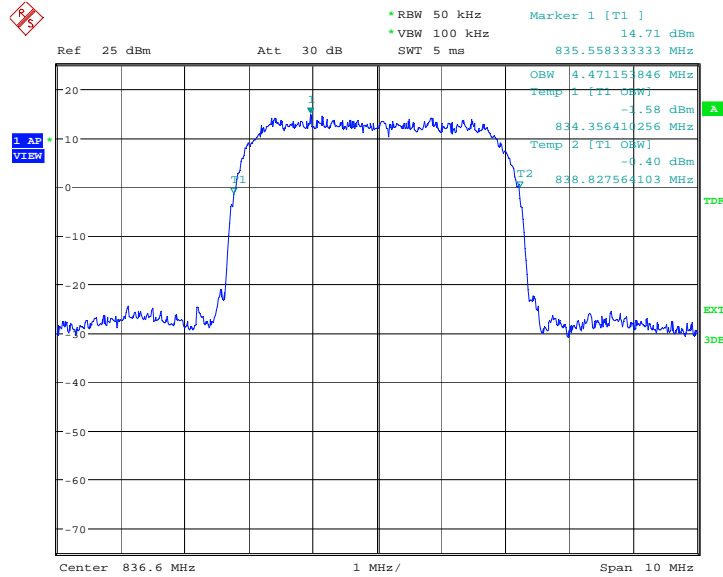
Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
826.40	4.487
836.60	4.471
846.60	4.487

WCDMA Band V

Channel 4132-Occupied Bandwidth (-26dBc BW)

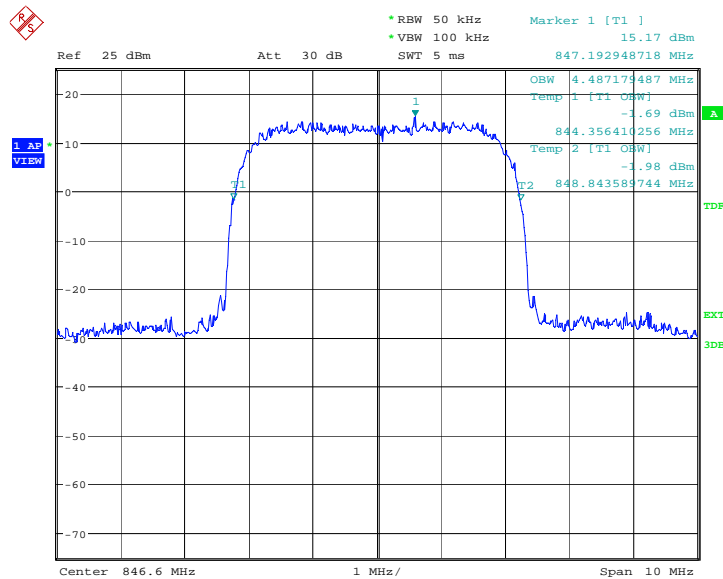


Channel 4183-Occupied Bandwidth (-26dBc BW)



Date: 17.APR.2012 10:36:56

Channel 4233-Occupied Bandwidth (-26dBc BW)

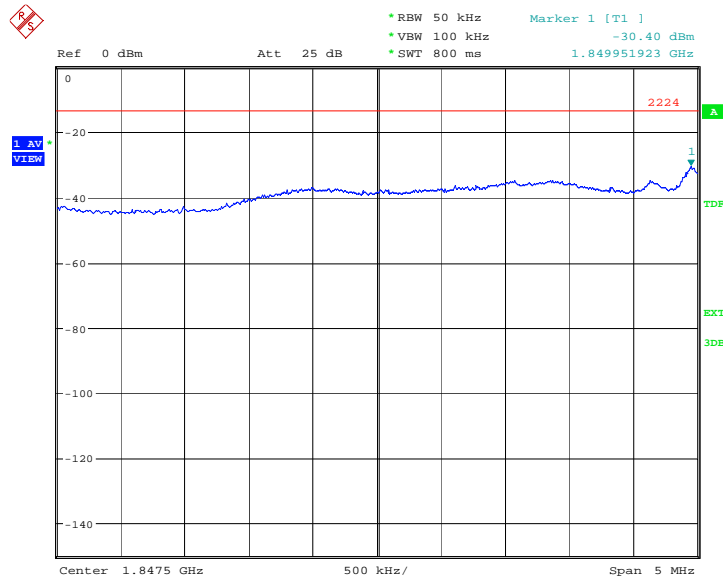


Date: 17.APR.2012 10:37:30

A.7 BAND EDGE COMPLIANCE

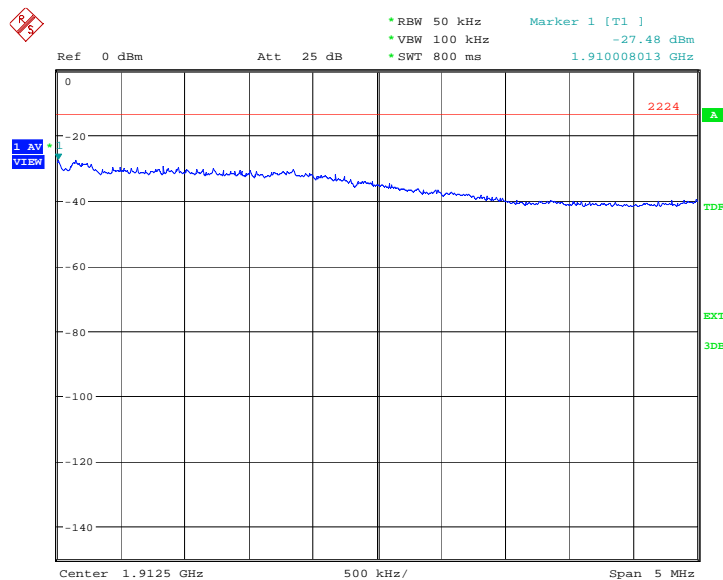
WCDMA Band II

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



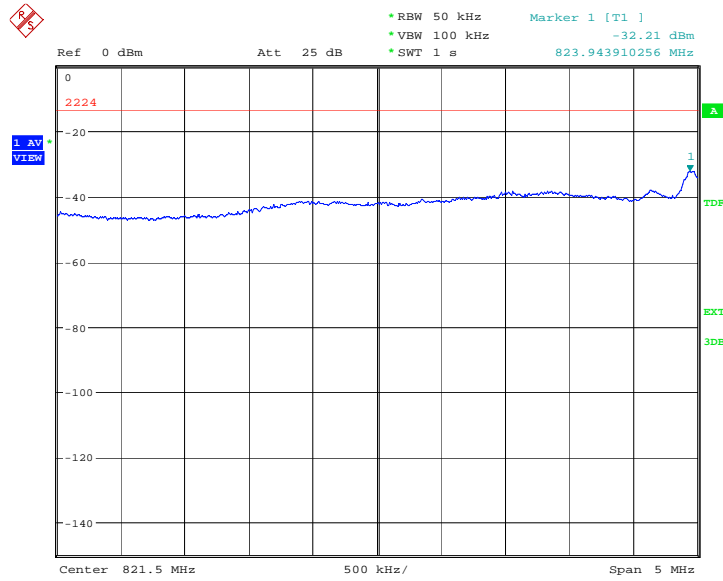
Date: 17.APR.2012 10:19:10

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



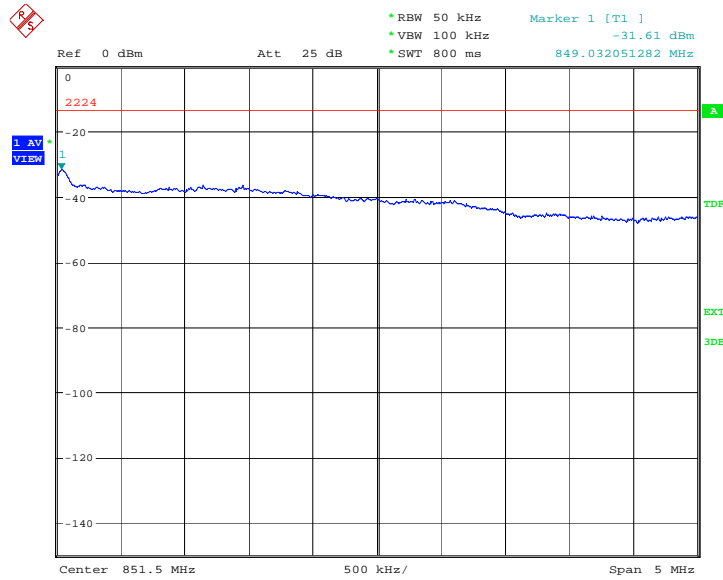
Date: 17.APR.2012 10:19:21

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



Date: 17.APR.2012 10:37:41

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



Date: 17.APR.2012 10:37:52

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 V, data taken from 30 MHz to 10GHz.
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 V Transmitter

Channel	Frequency (MHz)
4132	826.40
4183	836.60
4233	846.60

A. 8.2 Measurement Limit

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

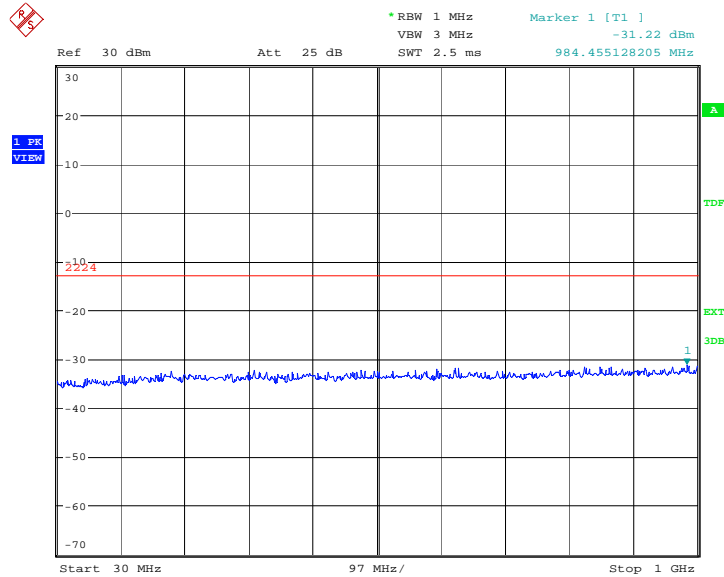
The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13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

A.8.3 Measurement result

WCDMA Band II

A. 8.3.1 Channel 9262: 30MHz –1GHz

Spurious emission limit –13dBm.

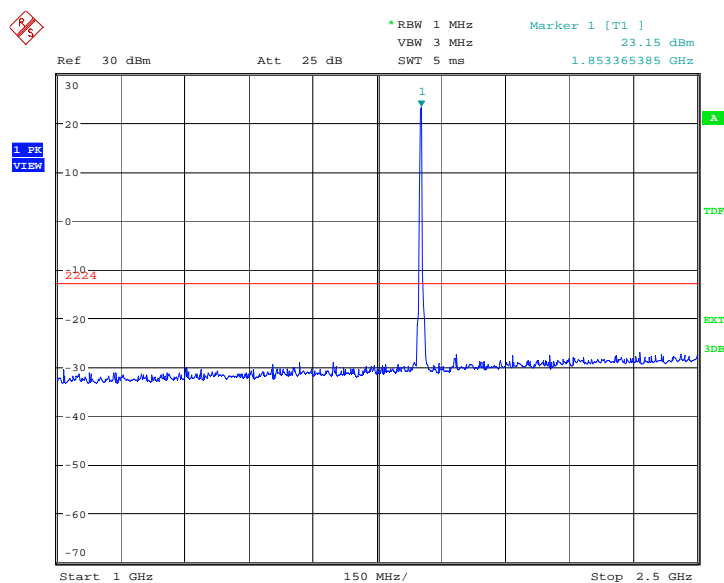


Date: 17.APR.2012 10:19:52

A.8.3.2 Channel 9262: 1GHz –2.5GHz

Spurious emission limit –13dBm.

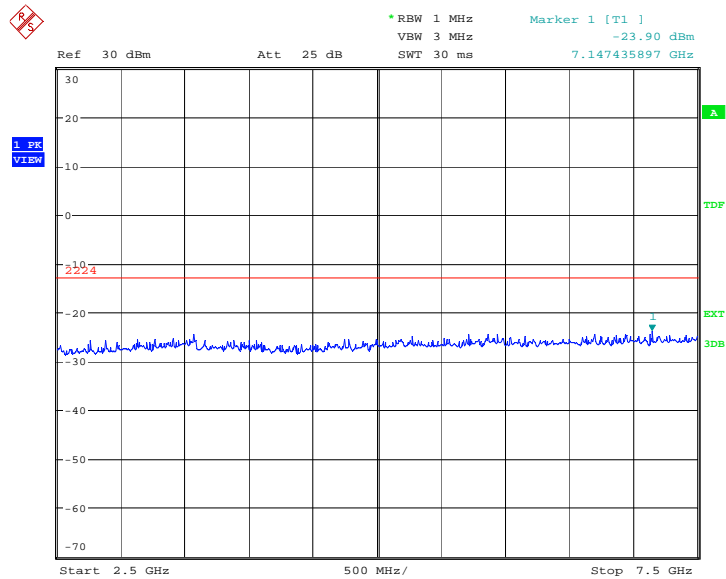
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:20:20

A.8.3.3 Channel 9262: 2.5GHz –7.5GHz

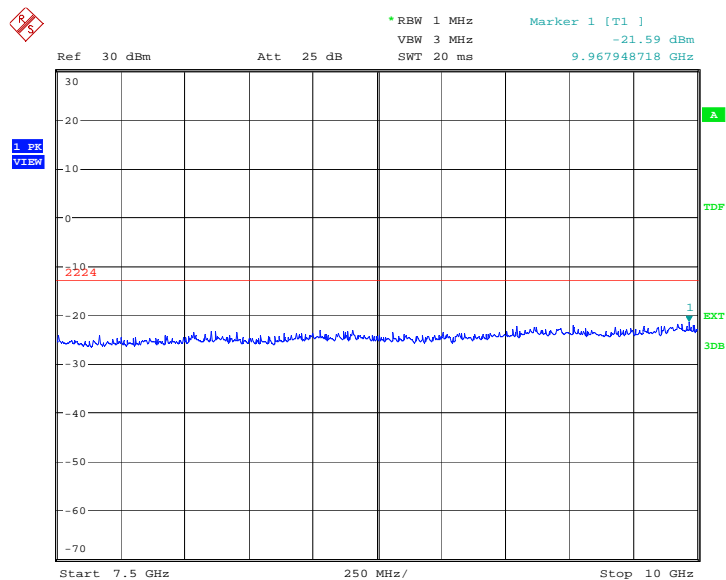
Spurious emission limit –13dBm.



Date: 17.APR.2012 10:20:48

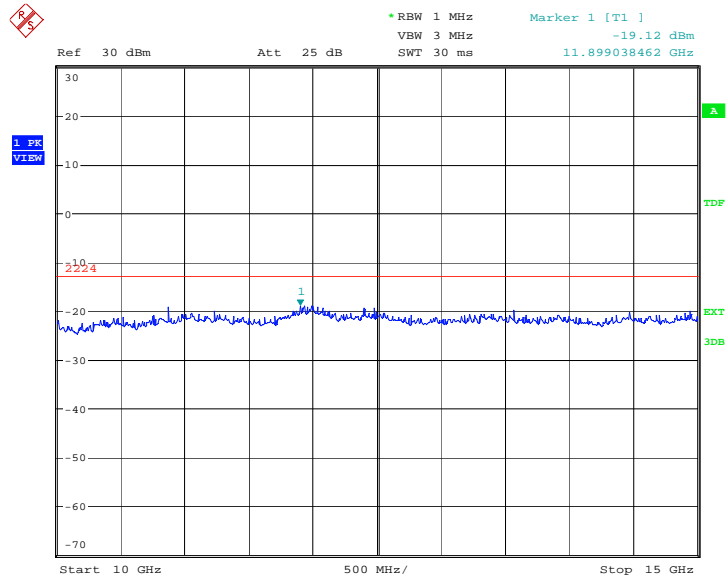
A.8.3.4 Channel 9262: 7.5GHz –10GHz

Spurious emission limit –13dBm.



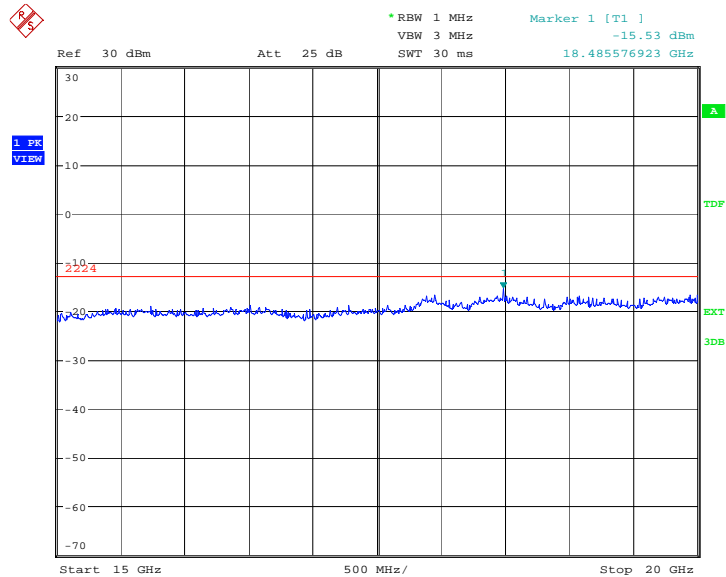
Date: 17.APR.2012 10:21:16

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



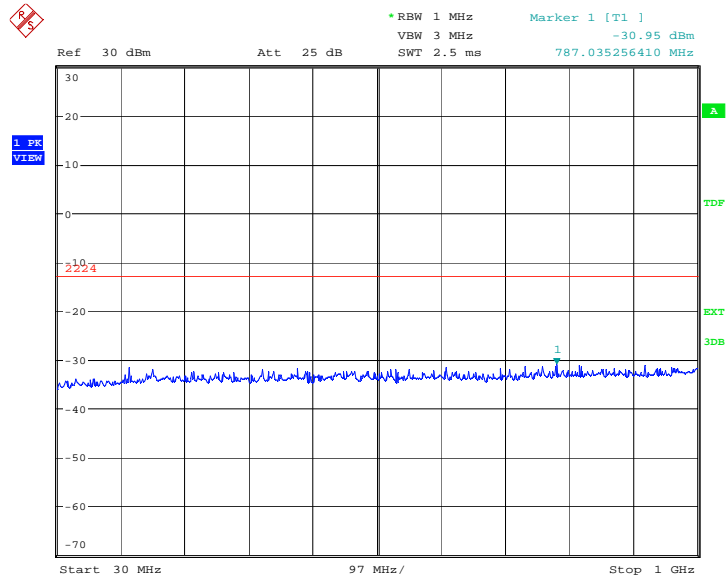
Date: 17.APR.2012 10:21:45

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



Date: 17.APR.2012 10:22:13

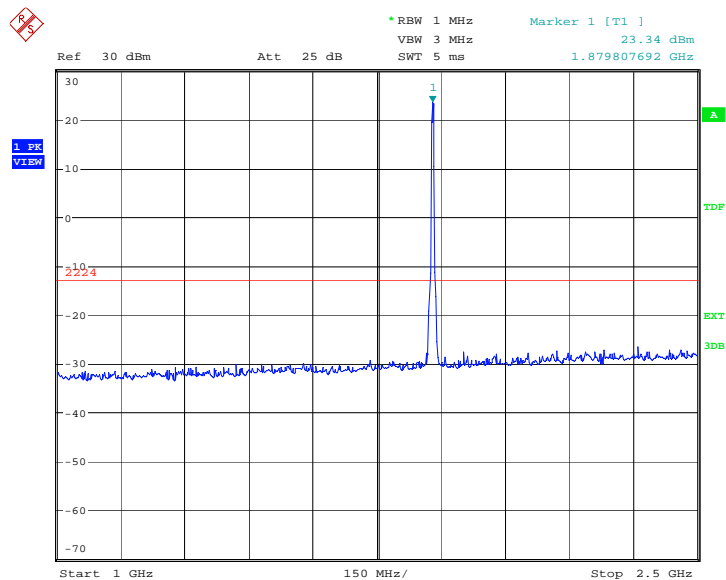
A. 8.3.7 Channel 9400: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 17.APR.2012 10:22:44

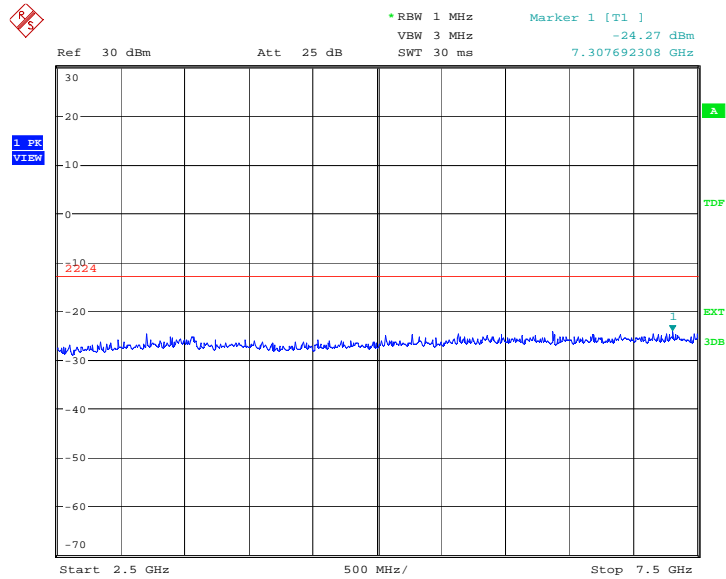
A.8.3.8 Channel 9400: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



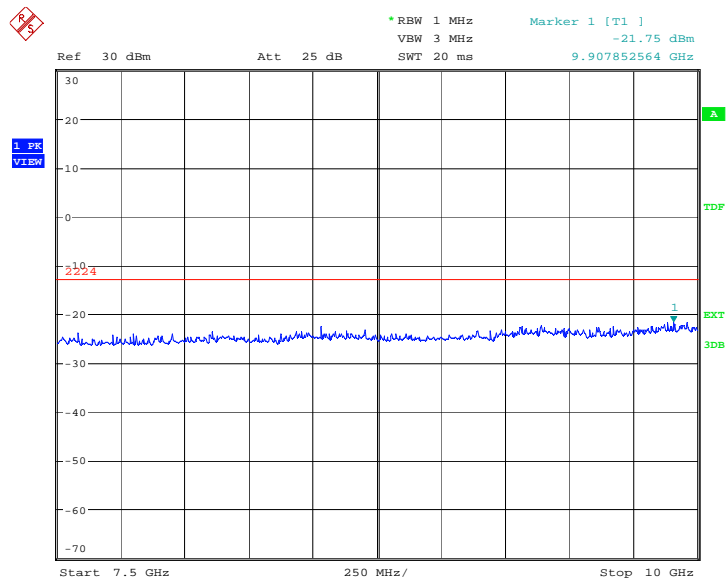
Date: 17.APR.2012 10:23:12

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



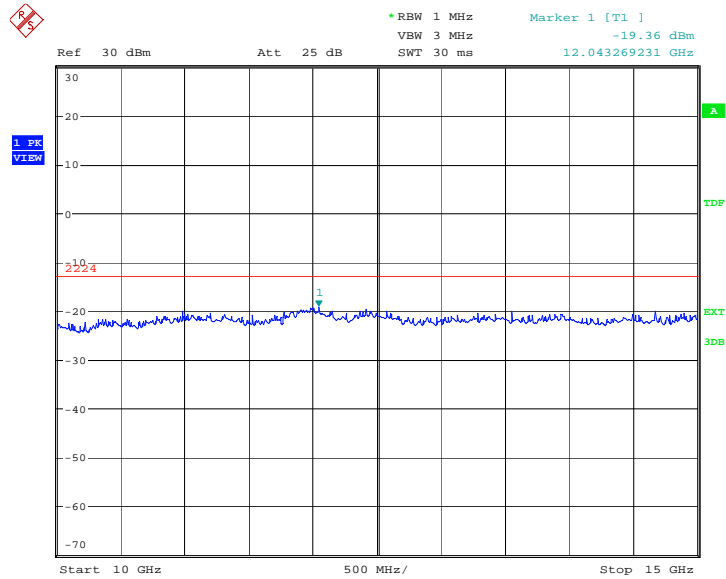
Date: 17.APR.2012 10:23:40

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



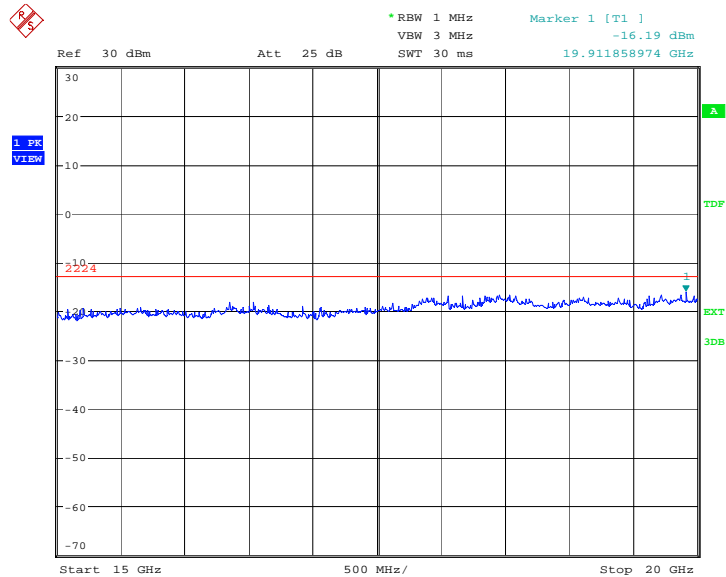
Date: 17.APR.2012 10:24:08

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



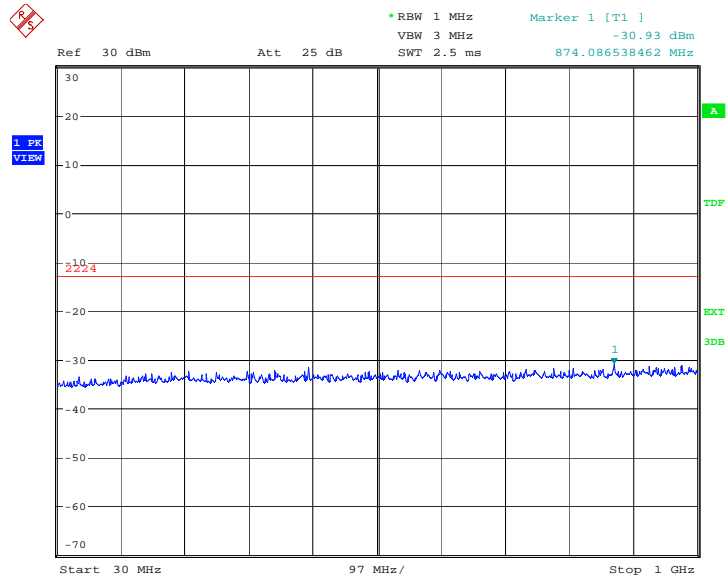
Date: 17.APR.2012 10:24:37

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



Date: 17.APR.2012 10:25:05

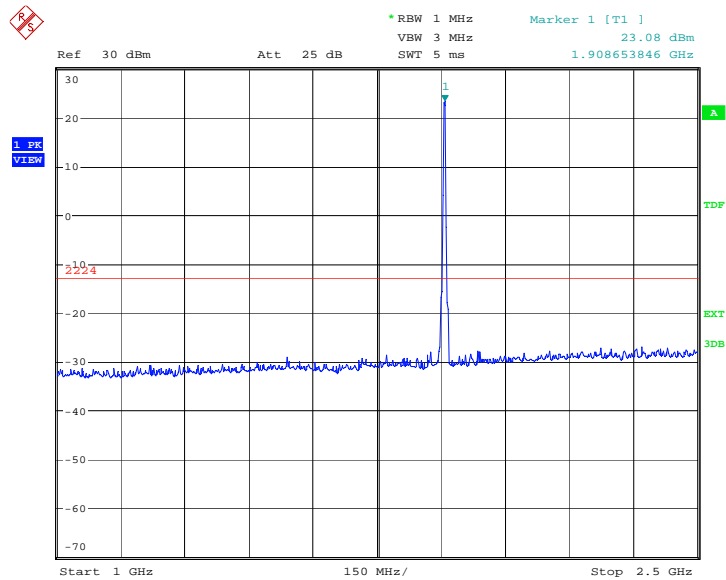
A. 8.3.13 Channel 9538: 30MHz –1GHz
Spurious emission limit –13dBm.



Date: 17.APR.2012 10:25:36

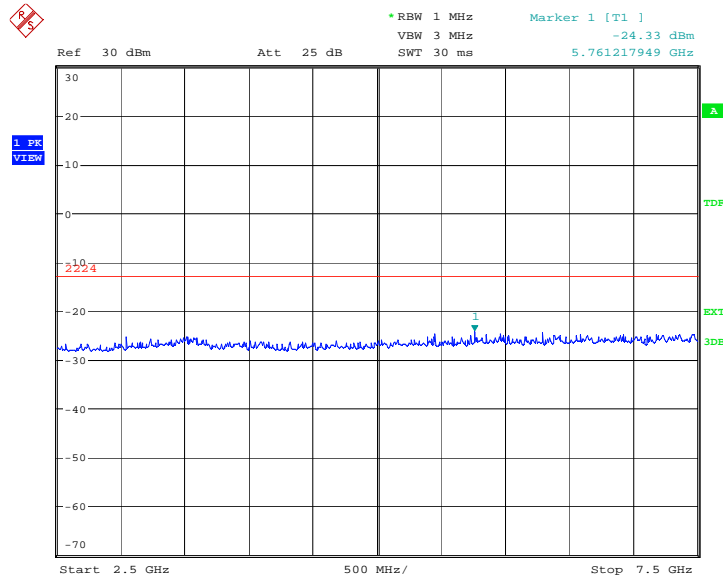
A.8.3.14 Channel 9538: 1GHz –2.5GHz
Spurious emission limit –13dBm.

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



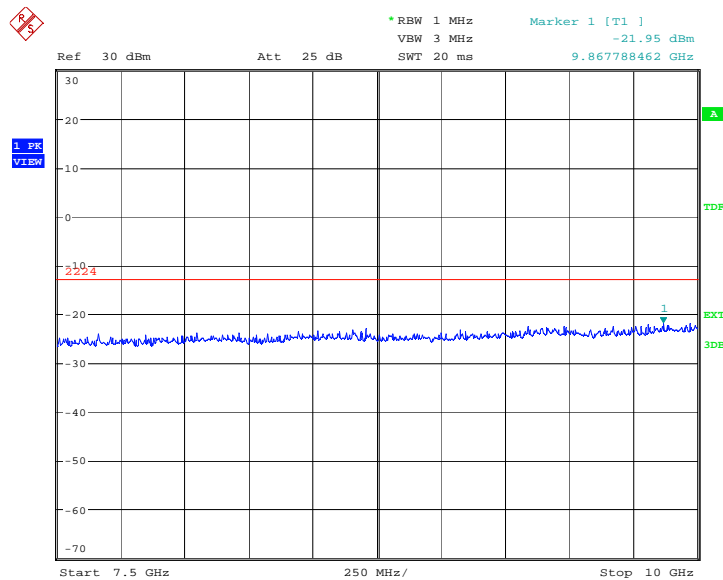
Date: 17.APR.2012 10:26:04

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



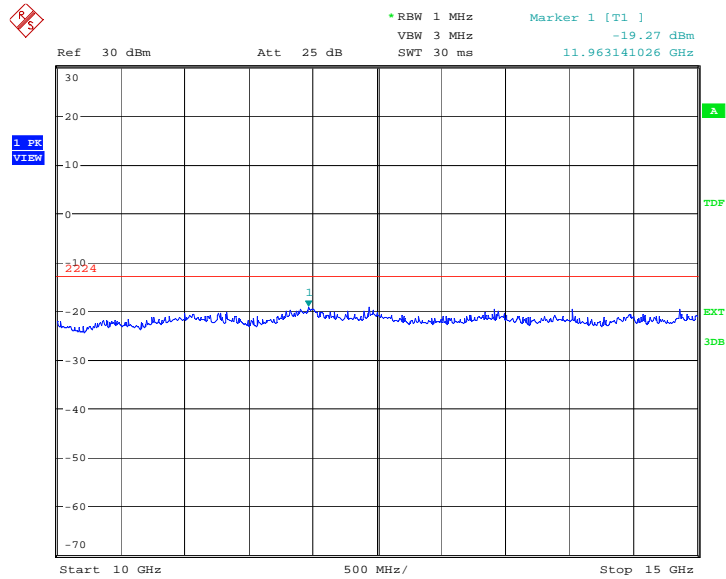
Date: 17.APR.2012 10:26:32

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



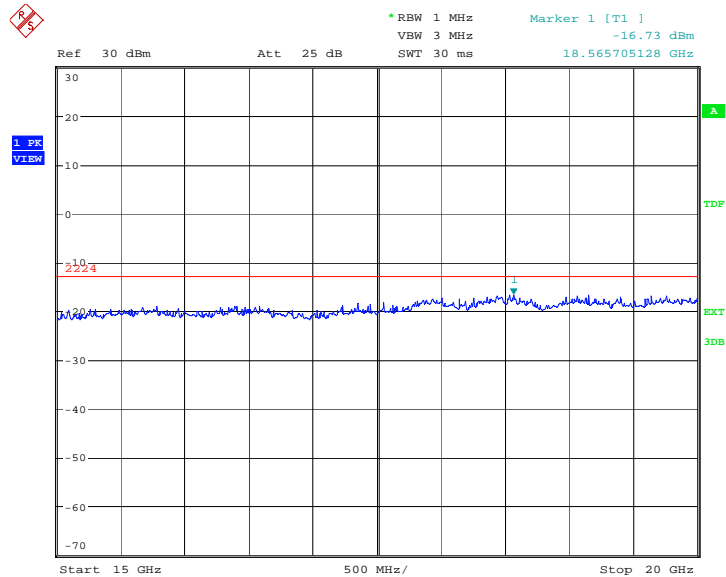
Date: 17.APR.2012 10:27:01

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



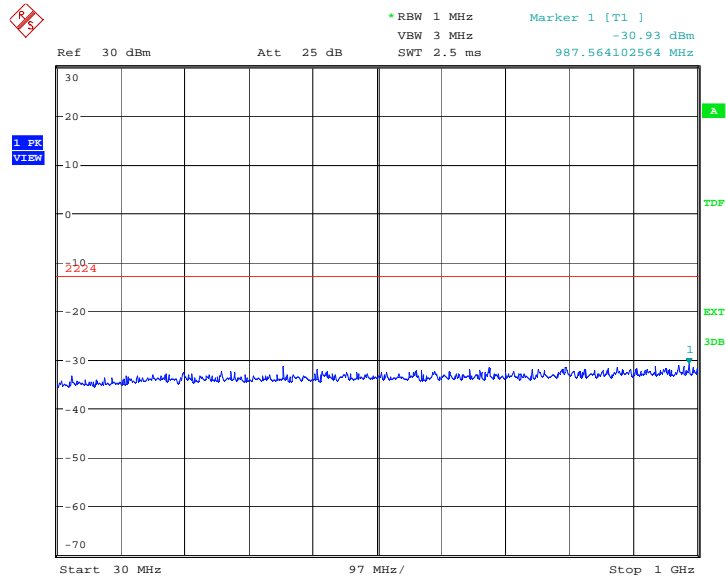
Date: 17.APR.2012 10:27:29

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



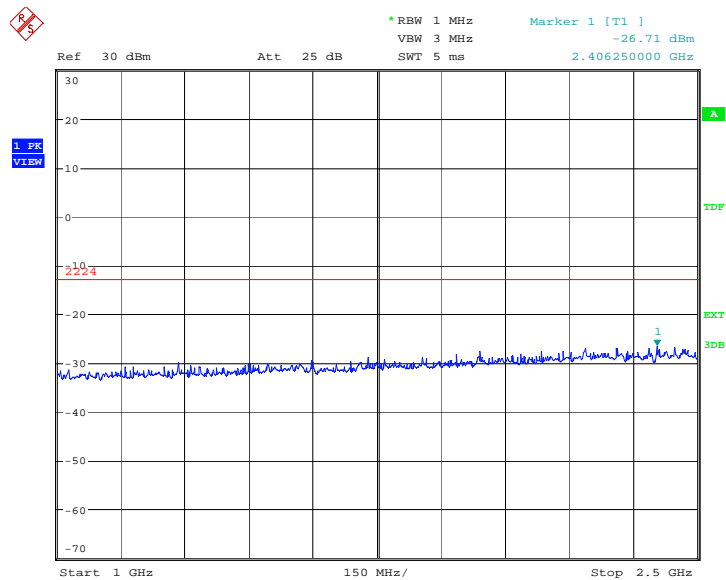
Date: 17.APR.2012 10:27:57

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



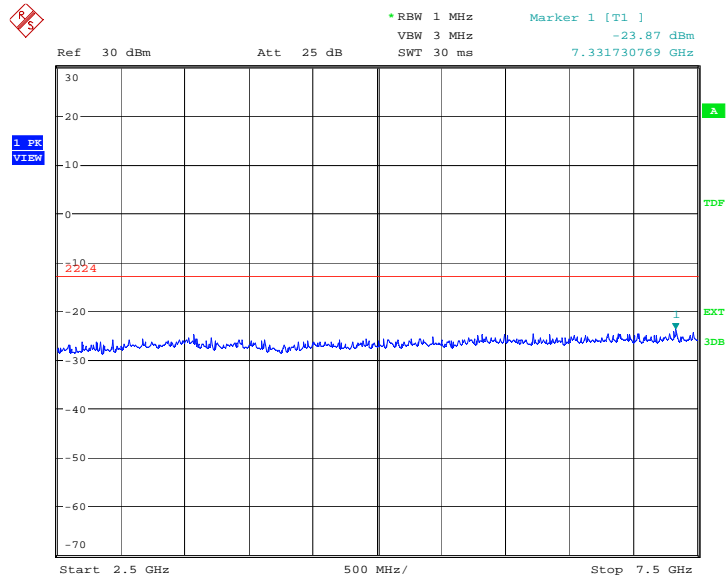
Date: 17.APR.2012 10:28:26

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



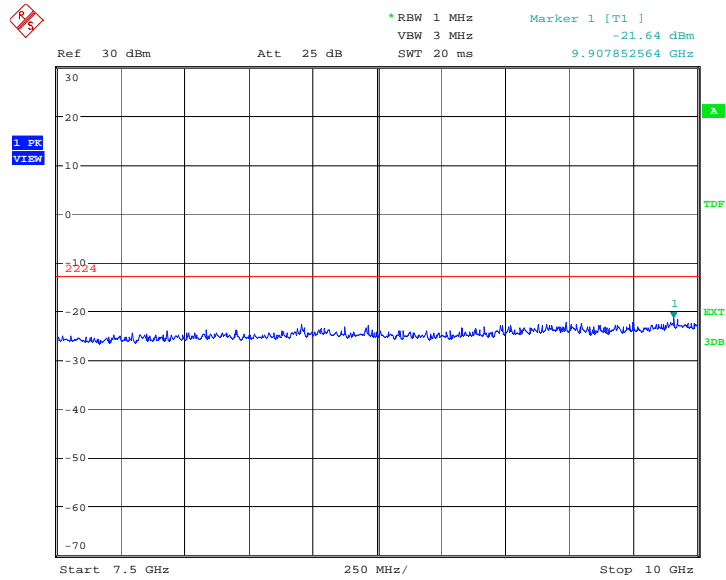
Date: 17.APR.2012 10:28:54

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



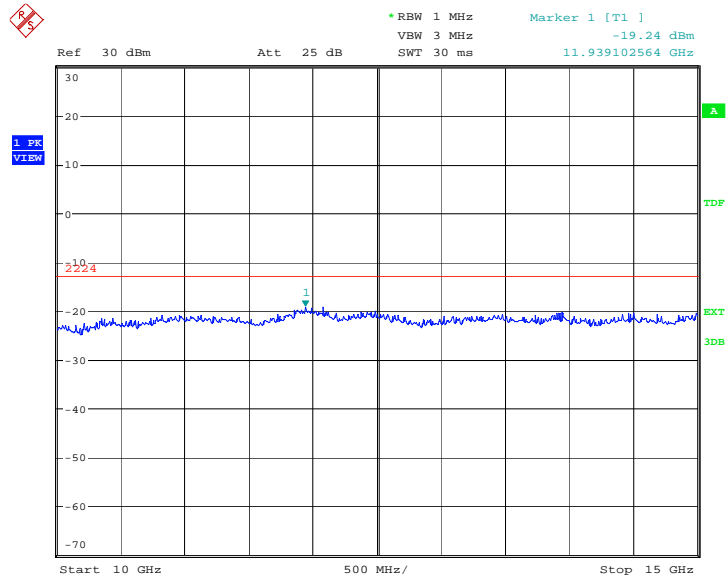
Date: 17.APR.2012 10:29:23

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



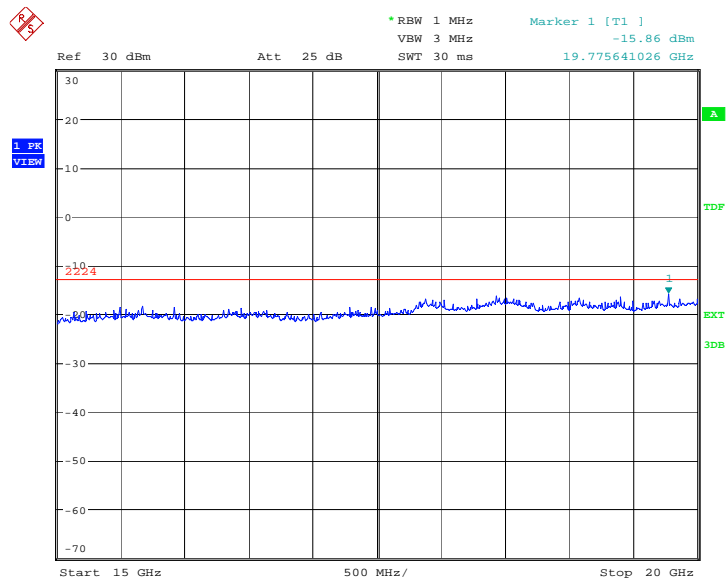
Date: 17.APR.2012 10:29:51

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



Date: 17.APR.2012 10:30:19

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



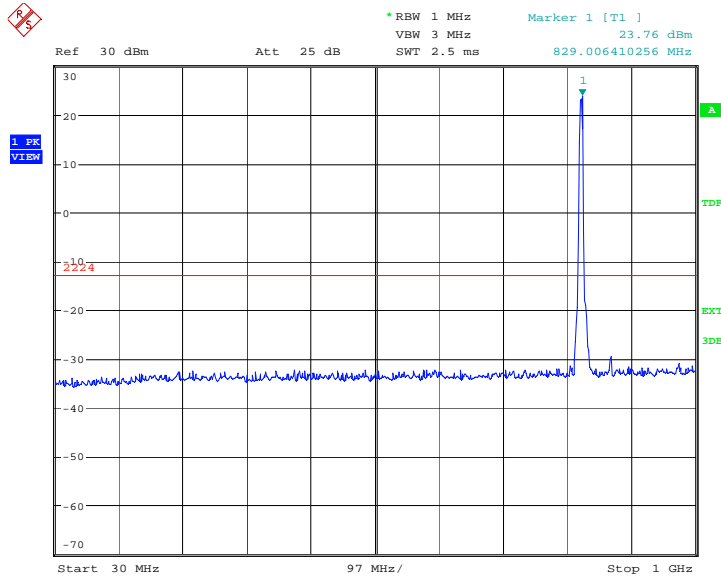
Date: 17.APR.2012 10:30:47

WCDMA Band V

A. 8.3.25 Channel 4132: 30MHz –1GHz

Spurious emission limit –13dBm.

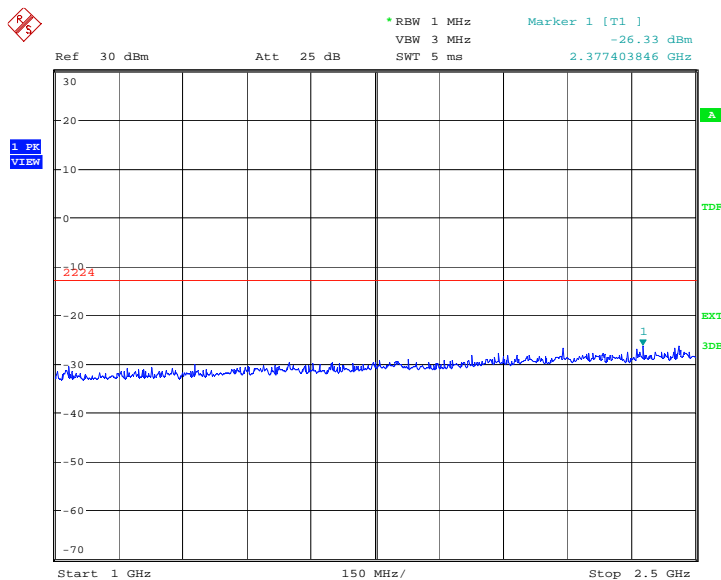
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:38:23

A. 8.3.26 Channel 4132: 1GHz – 2.5GHz

Spurious emission limit –13dBm.

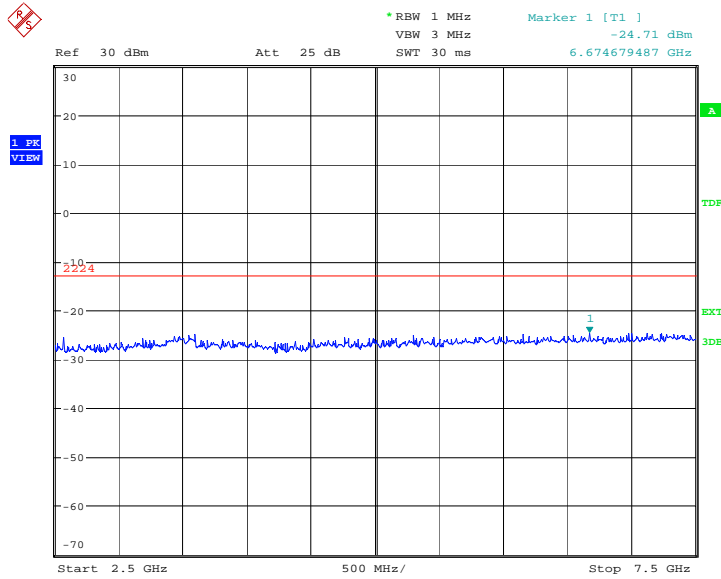


Date: 17.APR.2012 10:38:51

A. 8.3.27 Channel 4132: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.

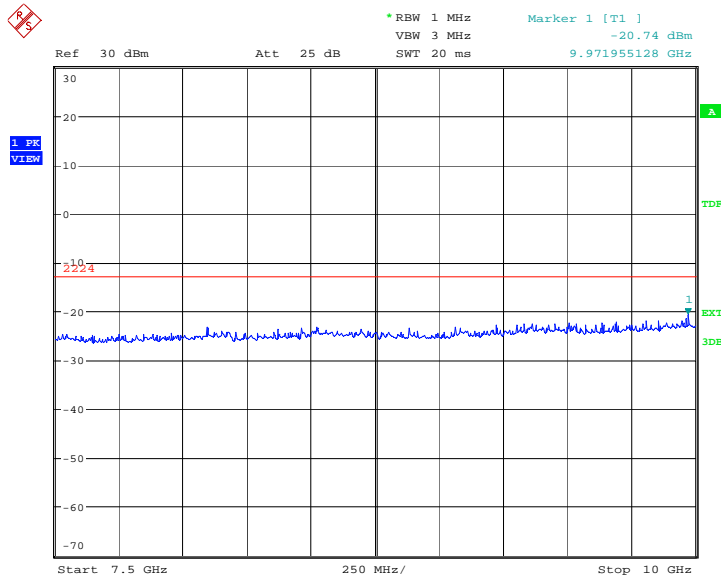
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:39:20

A. 8.3.28 Channel 4132: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

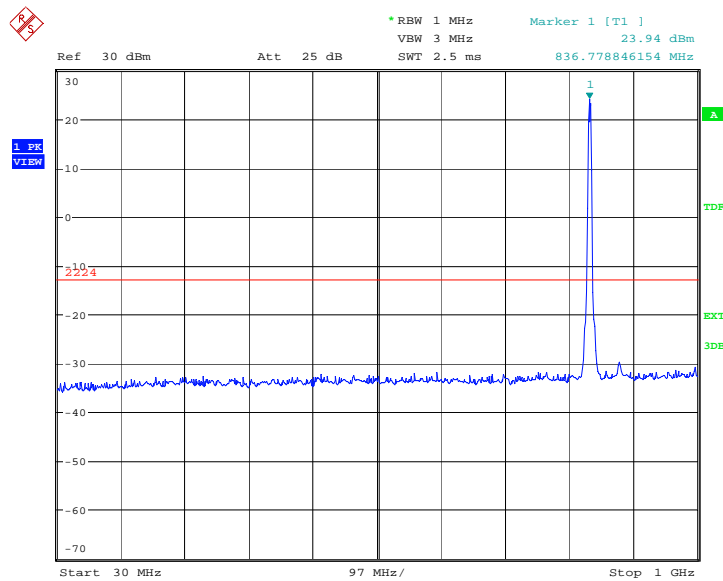


Date: 17.APR.2012 10:39:48

A. 8.3.29 Channel 4183: 30MHz –1GHz

Spurious emission limit –13dBm.

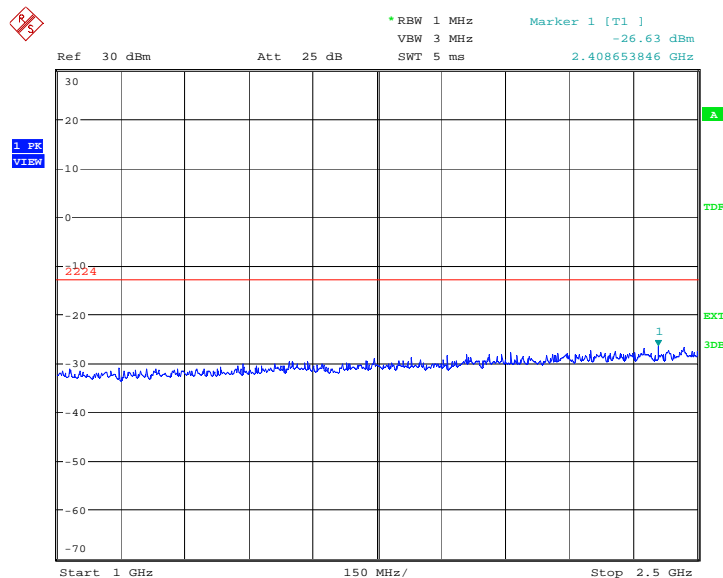
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:40:19

A.8.3.30 Channel 4183: 1GHz – 2.5GHz

Spurious emission limit –13dBm.

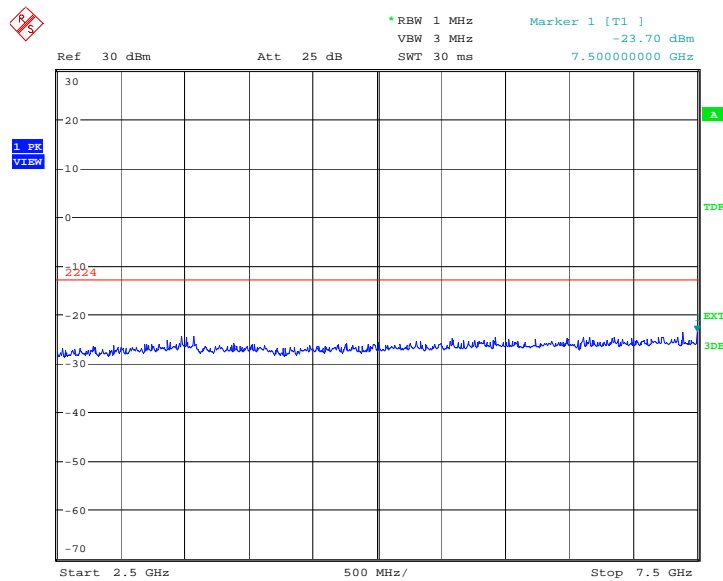


Date: 17.APR.2012 10:40:47

A. 8.3.31 Channel 4183: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.

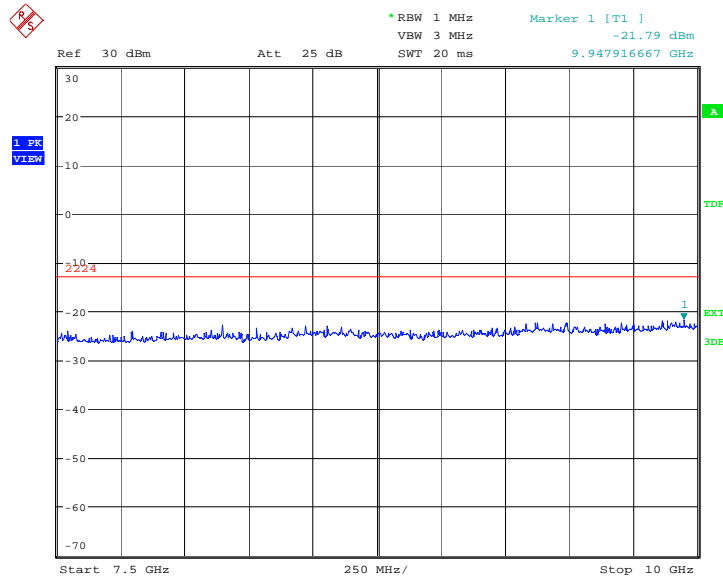
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:41:15

A. 8.3.32 Channel 4183: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

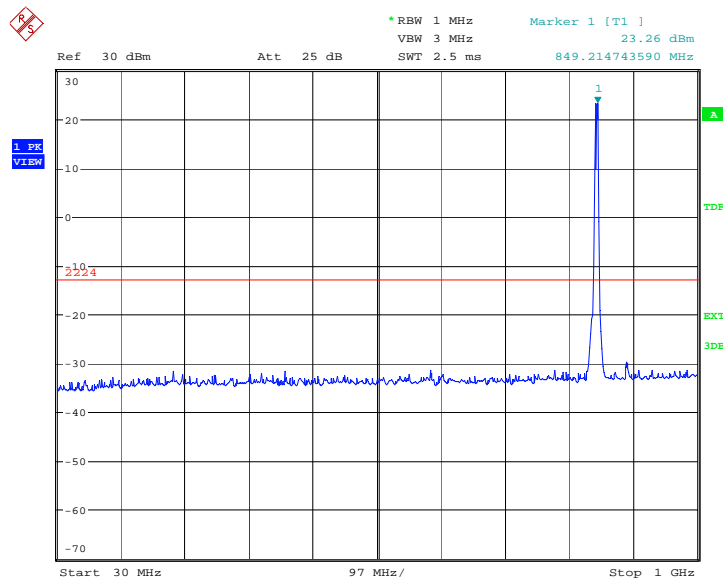


Date: 17.APR.2012 10:41:43

A. 8.3.33 Channel 4233: 30MHz –1GHz

Spurious emission limit –13dBm.

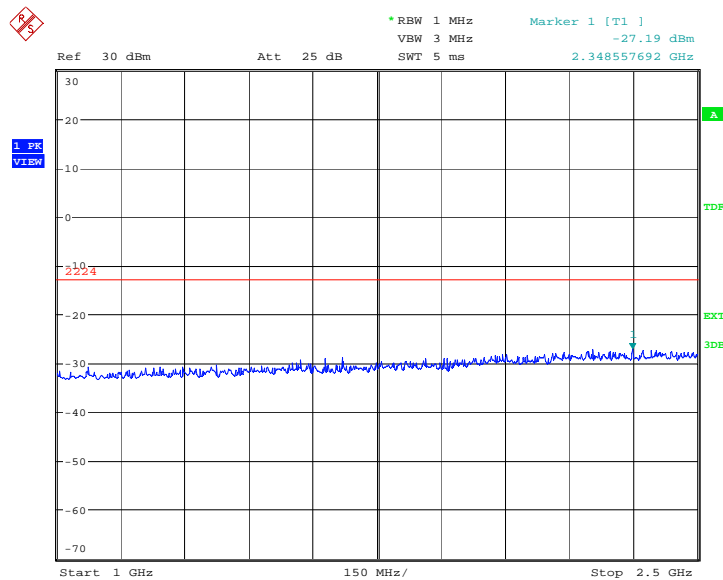
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:42:14

A. 8.3.34 Channel 4233: 1GHz – 2.5GHz

Spurious emission limit –13dBm.

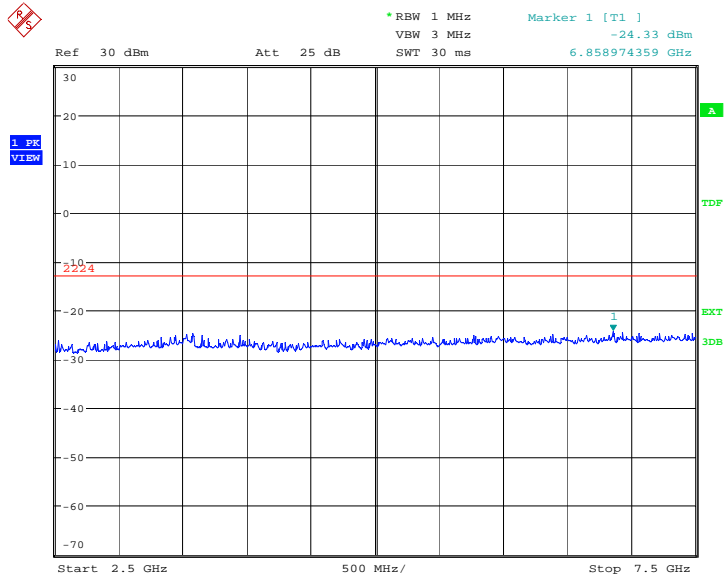


Date: 17.APR.2012 10:42:43

A. 8.3.35 Channel 4233: 2.5GHz –7.5GHz

Spurious emission limit –13dBm.

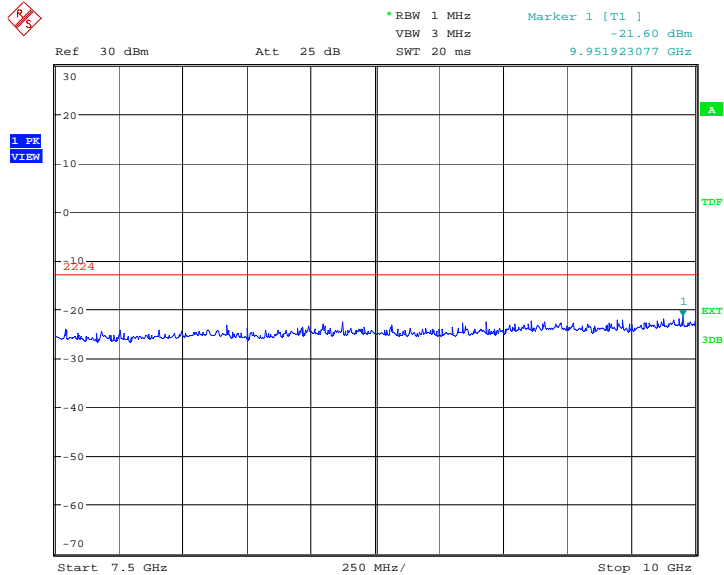
NOTE: peak above the limit line is the carrier frequency.



Date: 17.APR.2012 10:43:11

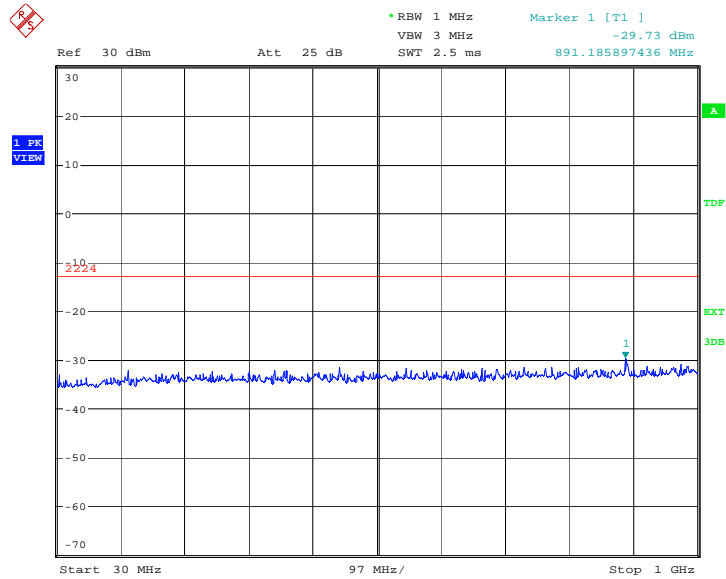
A. 8.3.36 Channel 4233: 7.5GHz – 10GHz

Spurious emission limit –13dBm.



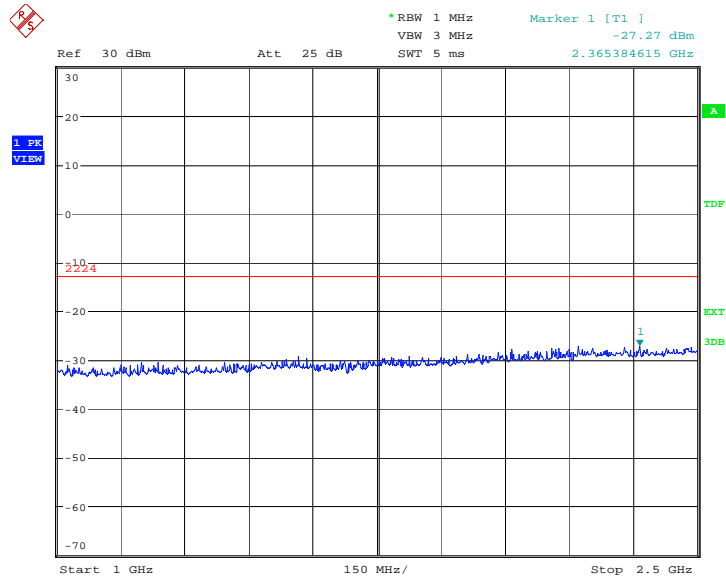
Date: 17.APR.2012 10:43:39

A. 8.3.37 Idle mode: 30MHz – 1GHz
Spurious emission limit -13dBm.



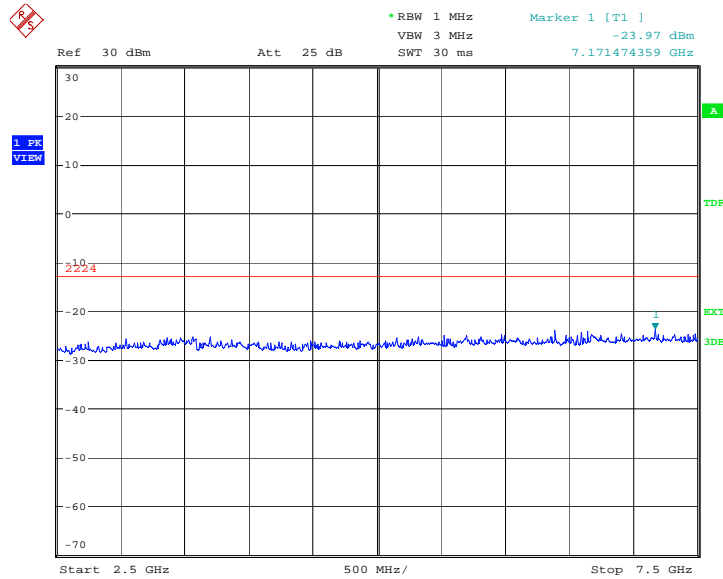
Date: 17.APR.2012 10:44:08

A.8.3.38 Idle mode: 1GHz – 2.5GHz
Spurious emission limit -13dBm.



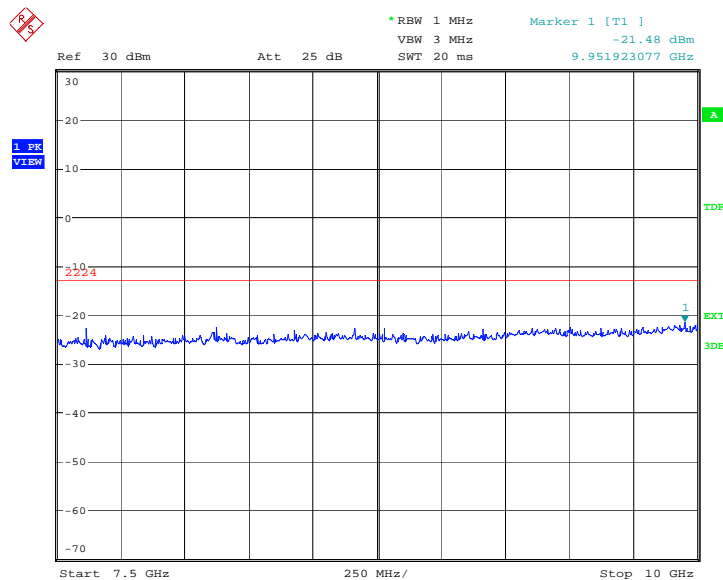
Date: 17.APR.2012 10:44:36

A.8.3.39 Idle mode: 2.5GHz – 7.5GHz
Spurious emission limit -13dBm.



Date: 17.APR.2012 10:45:04

A.8.3.40 Idle mode: 7.5GHz – 10GHz
Spurious emission limit -13dBm.



Date: 17.APR.2012 10:45:33

END OF REPORT