



TEST REPORT

No. I14Z45687-GTE02

for

TCT Mobile Limited

HSUPA/HSDPA+/UMTS triband/GSM quad-band mobile phone

Model Name: Yaris 4 ULC

Marketing Name: 4032A

FCC ID: RAD497

with

Hardware Version: PIO

Software Version: vD71

Issued Date: 2014-04-10

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

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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: 00861062304633

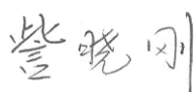
1.2. Testing Environment

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

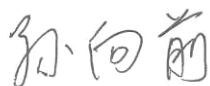
1.3. Project data

Testing Start Date: 2013-06-24
Testing End Date: 2014-04-10

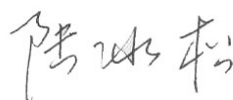
1.4. Signature



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

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2.2. Manufacturer Information

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Pudong Area Shanghai, P.R. China. 201203
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	HSUPA/HSDPA+/UMTS triband/GSM quad-band mobile phone
Model Name	Yaris 4 ULC
Marketing Name	4032A
FCC ID	RAD497
Frequency	GSM 850MHz; PCS 1900MHz; WCDMA Band II; WCDMA Band V
Release	Rel4
HSDPA category	10
HSUPA category	6
Antenna	Integrated
Power supply	Battery or Charger (AC Adaptor)
Output power	25.48dBm maximum EIRP measured for 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.

Note: The EUT is a variant model of ONE TOUCH 4033A. Only Conducted Emission has been tested. The other result is coming from the initial model.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT02a	014091000000052	PIO	vD71

*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	Battery
AE4	Battery
AE5	Battery
AE6	Battery
AE7	Travel charger
AE8	Travel charger
AE9	Travel charger
AE10	Travel charger

AE1

Model	CAB31P0000C1
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Manufacturer	BYD
Capacitance	1300mAh
Nominal voltage	3.7V
AE2	
Model	CAB31P0000C3
Manufacturer	SCUD
Capacitance	1300mAh
Nominal voltage	3.7V
AE3	
Model	CAB60B0000C1
Manufacturer	BYD
Capacitance	1400mAh
Nominal voltage	3.7V
AE4	
Model	CAB1400002C1
Manufacturer	BYD
Capacitance	1400mAh
Nominal voltage	3.7V
AE5	
Model	CAB60B0000C2
Manufacturer	BAK
Capacitance	1400mAh
Nominal voltage	3.7V
AE6	
Model	CAB31P0000C2
Manufacturer	BAK
Capacitance	1300mAh
Nominal voltage	3.7V
AE7	
Model	CBA3007AG0C1
Manufacturer	BYD
AE8	
Model	CBA3007AG0C2
Manufacturer	Tenpao
AE9	
Model	CBA3002AG0C2
Manufacturer	Tenpao
AE10	
Model	CBA3002AG0C3
Manufacturer	Yingju

*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 triband/GSM quad-band mobile phone with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	V 10.1.13
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.13
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

WCDMA Band II

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	24.232(c)	A.1	P
2	Emission Limit	24.238, 2.1051	A.2	P
3	CONDUCTED EMISSION	15.107/15.207	A.3	P
4	Frequency Stability	24.235, 2.1055	A.4	P
5	Occupied Bandwidth	2.1049(h)(i)	A.5	P
6	Emission Bandwidth	24.238(b)	A.6	P
7	Band Edge Compliance	24.238(b)	A.7	P
8	Conducted Spurious Emission	24.238, 2.1057	A.8	P

WCDMA Band V

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Output Power	§2.1046(a), 22.913(a)	A.1	P
2	Emission Limit	22.917, 2.1051	A.2	P
3	CONDUCTED EMISSION	15.107/15.207	A.3	P
4	Frequency Stability	22.235, 2.1055	A.4	P
5	Occupied Bandwidth	2.1049(h)(i)	A.5	P
6	Emission Bandwidth	22.917(b)	A.6	P
7	Band Edge Compliance	22.917(b)	A.7	P
8	Conducted Spurious Emission	22.917, 2.1057	A.8	P

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE
1	Test Receiver	ESCI	100344	R&S	2015-03-03
2	Test Receiver	ESU26	100376	R&S	2014-11-05
3	EMI Antenna	VULB 9163	514	Schwarzbeck	2014-11-10
4	EMI Antenna	3117	00139065	ETS-Lindgren	2014-07-31
5	LISN	ESH2-Z5	829991/012	R&S	2014-04-14
6	Universal Radio Communication Tester	CMU200	102228	R&S	2014-06-23
7	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2015-02-27
8	Spectrum Analyzer	E4440A	MY48250642	Agilent	2015-02-27
9	EMI Antenna	9117	177	Schwarzbeck	2014-06-29
10	EMI Antenna	VULB 9163	9163 175	Schwarzbeck	2014-07-13
11	EMI Antenna	3117	00119021	ETS-Lindgren	2014-04-19
12	Signal Generator	N5183A	MY49060052	Agilent	2015-03-02
13	Climate chamber	SH-241	92003546	ESPEC	2014-05-11
14	Loop Antenna	HFH2-Z2	829324/007	R&S	2014-12-12

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation. The power was measured with Rhode & Schwarz Digital Radio Communication tester (CMU-200). 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

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	23.15
	9400	1880.0	23.06
	9538	1907.6	23.03

WCDMA Band V

Measurement result

WCDMA (Band V)	CH	Frequency(MHz)	output power(dBm)
	4132	826.4	23.24
	4183	836.6	23.27
	4233	846.6	23.32

A.1.3 Radiated

A.1.3.1 Description

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

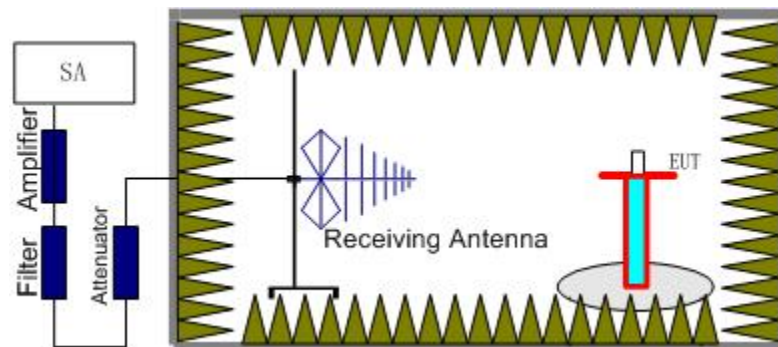
Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts." Rule Part 27.50(d)(2) specifies, "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to a peak EIRP of 1 watt."

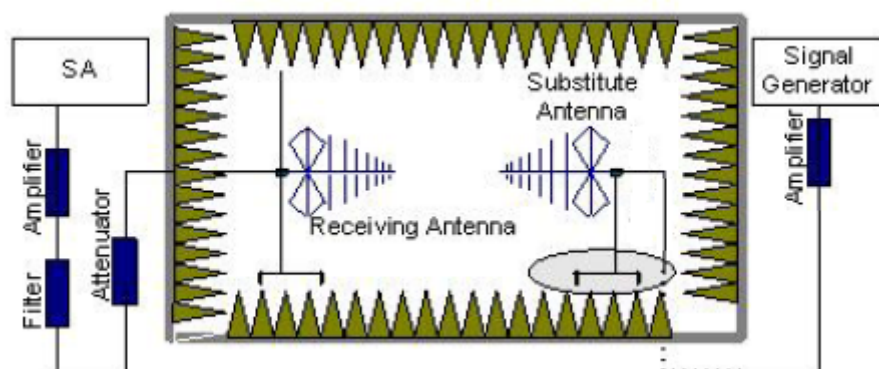
A.1.3.2 Method of Measurement

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

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



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



In the chamber, an substitution antenna for the frequency band of interest is placed at the

reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.
The cable loss (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

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

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	-28.24	3.18	-50.00	-4.55	23.13	H
1880.00	-27.66	3.11	-50.00	-4.43	23.66	H
1907.60	-25.65	3.18	-50.00	-4.31	25.48	H

Frequency: 1880.00MHz

Peak EIRP(dBm)= P_{Mea}(-25.65dBm)- P_{cl}(3.18dB)- P_{Ag}(-50.00dB)-G_a (-4.31dB) =25.48dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band V-ERP

Limits

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

Measurement result

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Polarization
826.40	-24.95	2.07	-53.00	0.85	2.15	22.98	H
836.60	-24.16	2.08	-53.00	0.90	2.15	23.71	H
846.60	-24.51	2.09	-53.00	0.94	2.15	23.31	H

Frequency: 826.60MHz

Peak ERP(dBm)= P_{Mea}(-24.16dBm)- P_{cl}(2.08dB)- P_{Ag}(-53.00dB)-G_a (0.90dB)-2.15dB=23.71dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

A.2 EMISSION LIMIT

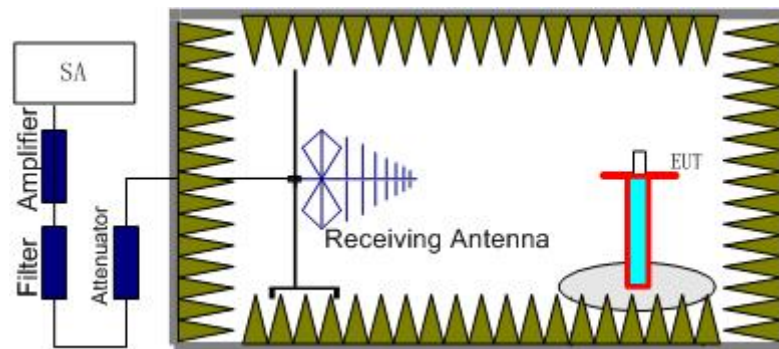
A.2.1 Measurement Method

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

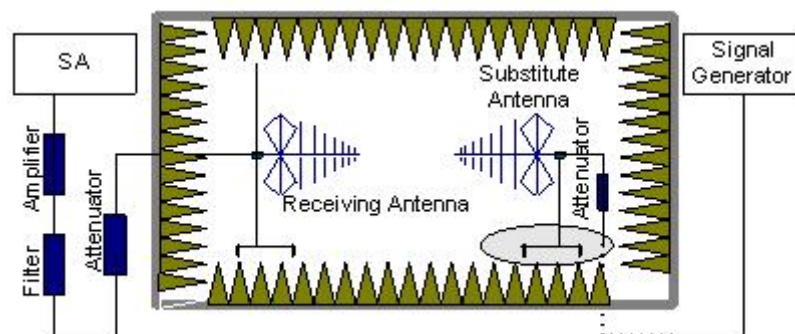
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

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



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



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

receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

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

A amplifier should be connected in for the test.

The Path loss (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 , Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

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A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz) , WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II, WCDMA Band 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.

WCDMA BAND II Mode Channel 9262/1852.4MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
3703.23	-45.47	4.43	-8.14	-41.76	-13.00	H
5554.98	-43.10	5.45	-10.02	-38.53	-13.00	H
7406.56	-56.90	6.41	-11.34	-51.97	-13.00	V
8950.48	-61.91	7.35	-12.56	-56.70	-13.00	H
10046.90	-59.62	8.24	-12.41	-55.45	-13.00	V
14829.30	-50.96	9.65	-13.53	-47.08	-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
3762.47	-47.14	4.52	-8.21	-43.45	-13.00	H
5637.61	-44.24	5.45	-10.06	-39.63	-13.00	H
7516.67	-55.49	6.76	-11.42	-50.83	-13.00	V
8507.06	-63.31	7.01	-12.21	-58.11	-13.00	H
10224.70	-58.59	7.53	-12.44	-53.68	-13.00	H
12127.75	-56.78	8.82	-12.55	-53.05	-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
3817.46	-49.91	4.49	-8.28	-46.12	-13.00	H
5726.41	-48.97	5.54	-10.09	-44.42	-13.00	H
7515.18	-62.30	6.74	-11.42	-57.62	-13.00	V
8734.57	-63.81	7.36	-12.39	-58.78	-13.00	H
10051.89	-60.79	8.26	-12.41	-56.64	-13.00	H
13043.30	-58.06	9.15	-13.34	-53.87	-13.00	H

WCDMA BAND V Mode Channel 4132/826.4MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
1650.25	-56.67	2.91	-5.44	2.15	-56.29	-13.00	H
3071.16	-62.52	3.97	-6.87	2.15	-61.77	-13.00	V
3745.07	-61.13	4.51	-8.19	2.15	-59.60	-13.00	H
4713.73	-63.48	4.96	-9.18	2.15	-61.41	-13.00	H
5523.96	-62.67	5.47	-10.01	2.15	-60.28	-13.00	V
6344.09	-60.35	5.83	-10.48	2.15	-57.85	-13.00	H

WCDMA BAND V Mode Channel 4183/836.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
1601.40	-61.91	2.93	-5.65	2.15	-61.34	-13.00	H
3698.00	-62.55	4.45	-8.14	2.15	-61.01	-13.00	H
4418.98	-62.37	4.83	-8.75	2.15	-60.60	-13.00	H
5011.75	-62.75	5.17	-9.71	2.15	-60.36	-13.00	H
5842.09	-62.40	5.73	-10.14	2.15	-60.14	-13.00	V
6567.59	-60.23	6.14	-10.67	2.15	-57.85	-13.00	V

WCDMA BAND V Mode Channel 4233/846.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
2453.23	-53.08	3.55	-5.26	2.15	-53.52	-13.00	H
3279.94	-63.61	4.21	-7.37	2.15	-62.60	-13.00	H
4370.34	-61.34	4.90	-8.72	2.15	-59.67	-13.00	V
4901.71	-62.31	5.15	-9.52	2.15	-60.09	-13.00	V
6271.60	-60.98	5.84	-10.42	2.15	-58.55	-13.00	H
9059.70	-58.77	7.52	-12.60	2.15	-55.84	-13.00	H

A.3 CONDUCTED EMISSION

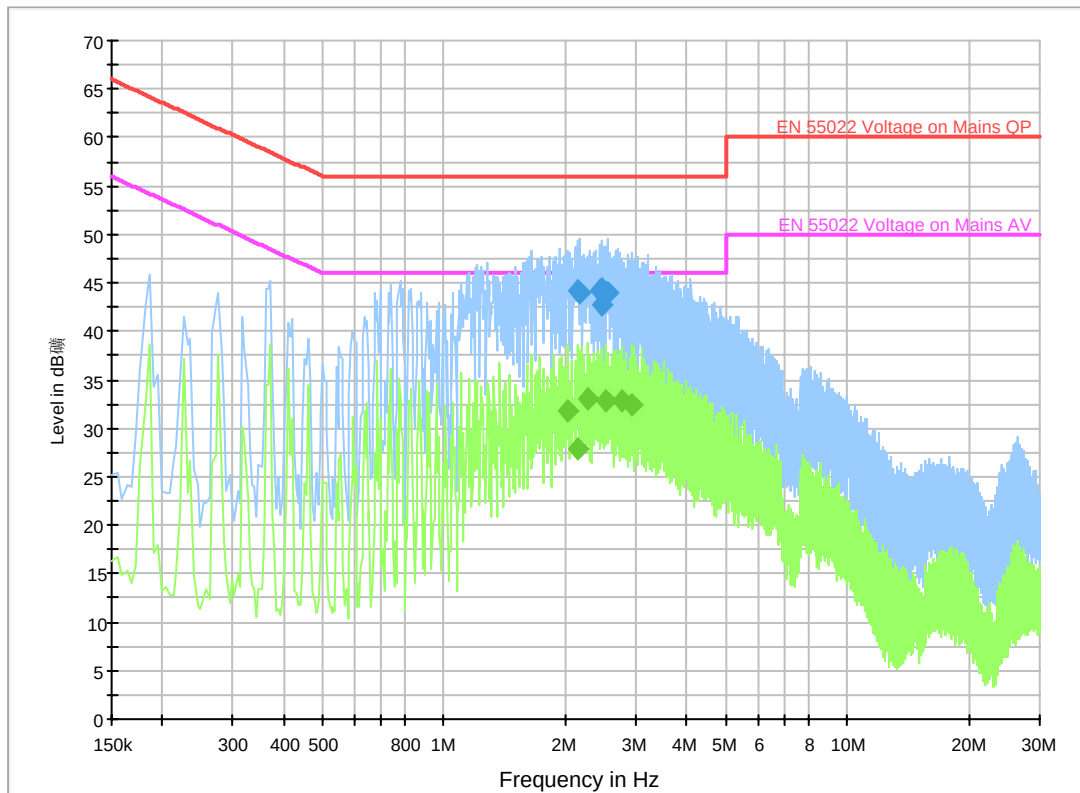
The measurement procedure in ANSI C63.4-2003 is used. Conducted Emission is measured with travel charger.

A.3.1 Limit

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

A.3.2 Measurement result

WCDMA Band II



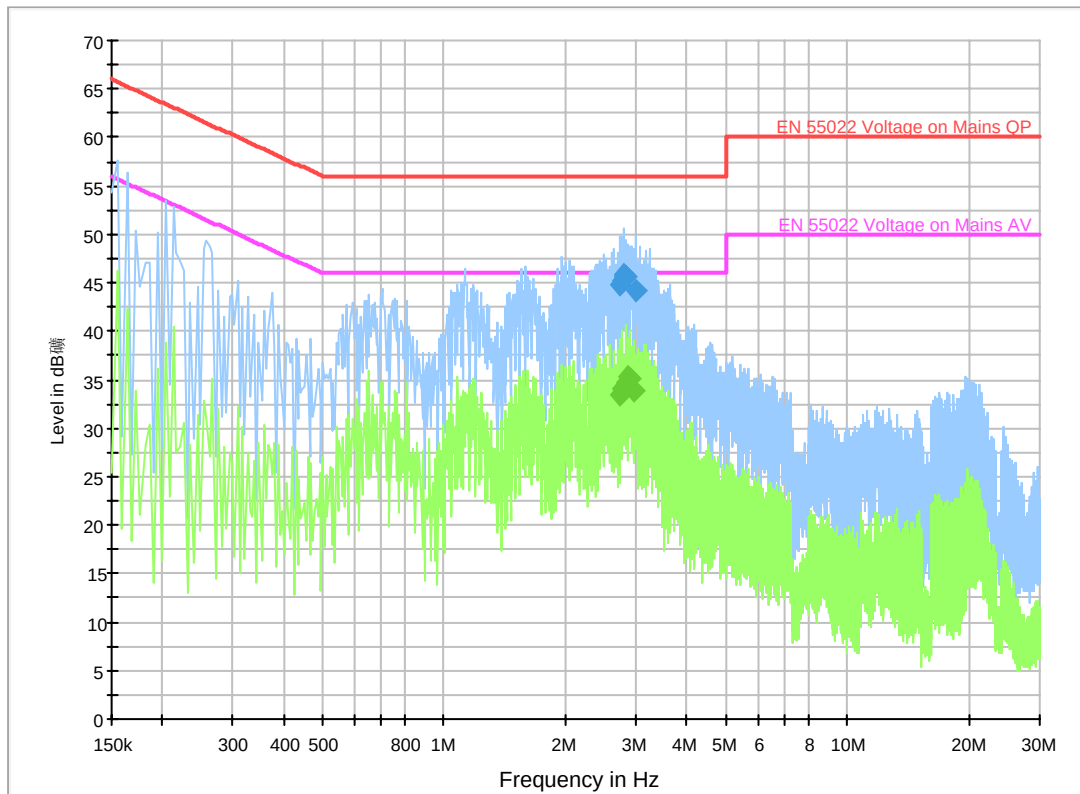
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.157001	44.3	GND	N	9.9	11.7	56.0
2.170501	44.0	GND	N	9.9	12.0	56.0
2.431501	44.1	GND	N	9.9	11.9	56.0
2.458501	44.4	GND	N	9.9	11.6	56.0
2.476501	42.7	GND	N	9.9	13.3	56.0
2.535001	44.0	GND	N	9.9	12.0	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.035501	31.9	GND	N	9.9	14.1	46.0
2.157001	28.0	GND	N	9.9	18.0	46.0
2.278501	33.1	GND	N	9.9	12.9	46.0
2.521501	32.8	GND	N	9.9	13.2	46.0
2.764501	32.9	GND	N	9.9	13.1	46.0
2.917501	32.5	GND	N	9.9	13.5	46.0

WCDMA Band II



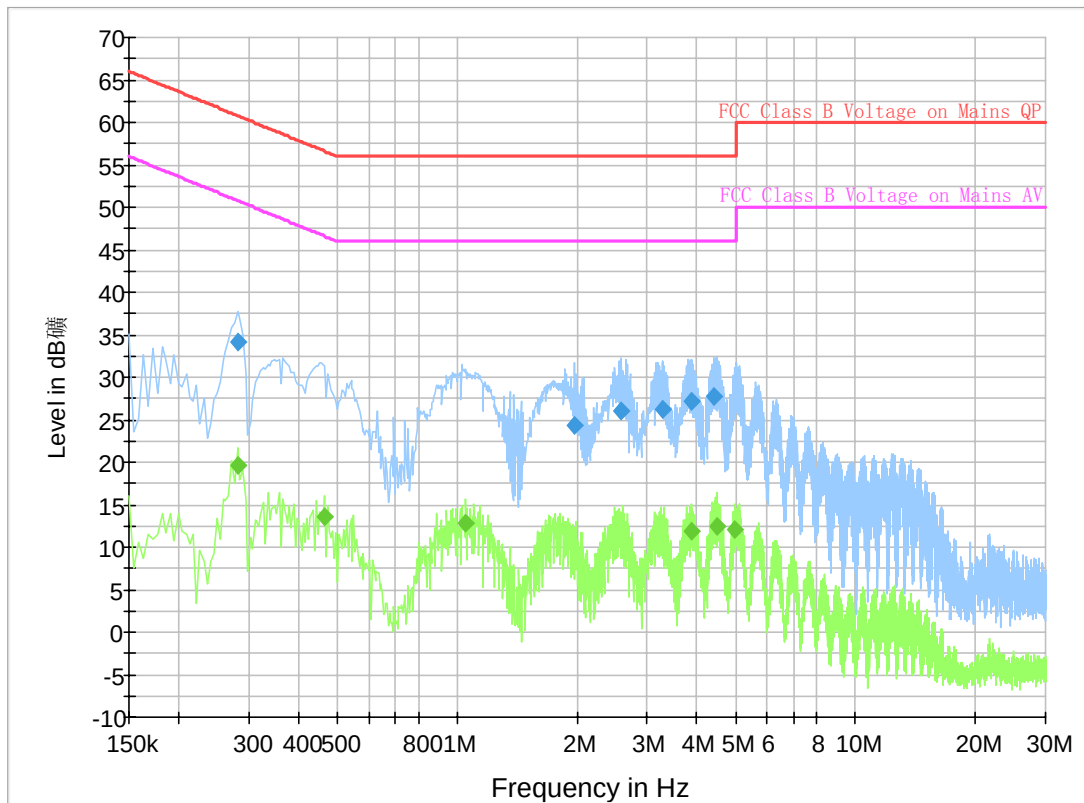
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.742001	44.9	GND	N	9.9	11.1	56.0
2.773501	45.1	GND	N	9.9	10.9	56.0
2.787001	45.8	GND	N	9.9	10.2	56.0
2.805001	45.6	GND	N	9.9	10.4	56.0
2.832001	45.6	GND	N	9.9	10.4	56.0
2.985001	44.2	GND	N	9.9	11.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.742001	33.5	GND	N	9.9	12.5	46.0
2.773501	34.1	GND	N	9.9	11.9	46.0
2.818501	34.7	GND	N	9.9	11.3	46.0
2.863501	35.2	GND	N	9.9	10.8	46.0
2.895001	35.2	GND	N	9.9	10.8	46.0
2.971501	33.9	GND	N	9.9	12.1	46.0

WCDMA Band II



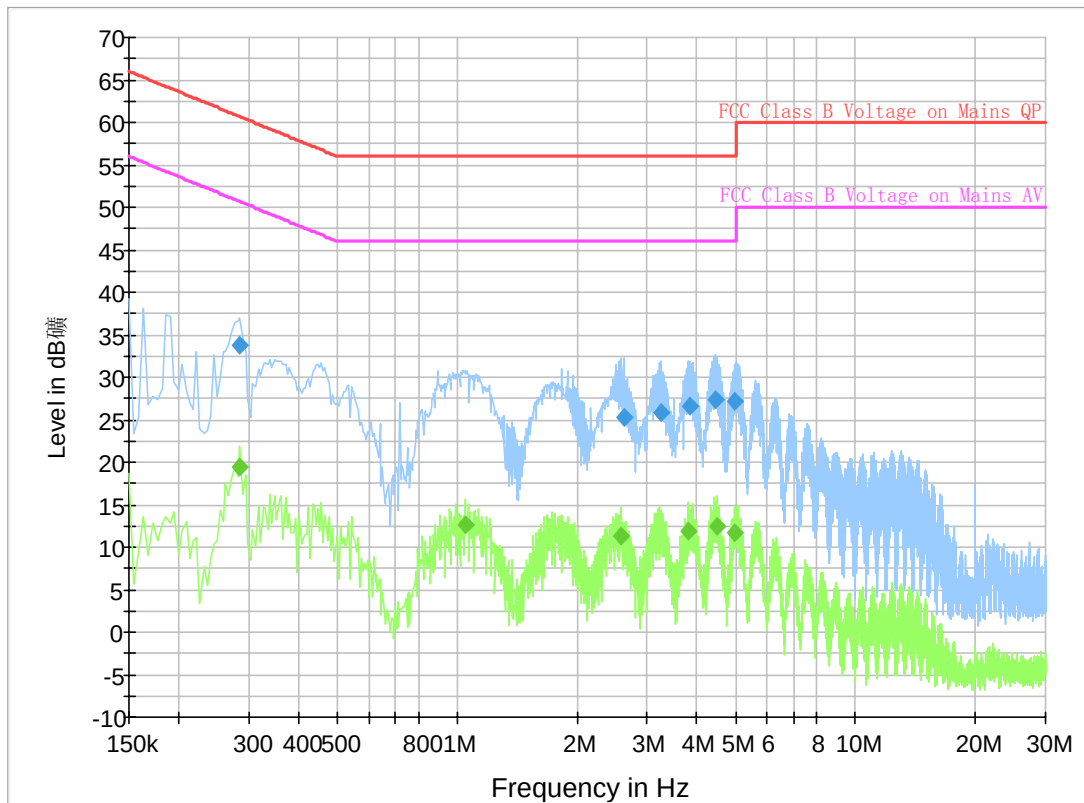
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.280500	34.1	GND	L1	9.8	26.7	60.8
1.968000	24.4	GND	L1	9.7	31.6	56.0
2.584500	26.1	GND	L1	9.7	29.9	56.0
3.268500	26.3	GND	L1	9.7	29.7	56.0
3.876000	27.1	GND	L1	9.7	28.9	56.0
4.416000	27.7	GND	L1	9.7	28.4	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.280500	19.7	GND	L1	9.8	31.1	50.8
0.465000	13.5	GND	L1	9.8	33.1	46.6
1.050000	12.8	GND	L1	9.7	33.2	46.0
3.889500	11.9	GND	L1	9.7	34.1	46.0
4.501500	12.4	GND	L1	9.7	33.6	46.0
4.996500	12.1	GND	L1	9.8	33.9	46.0

WCDMA Band II



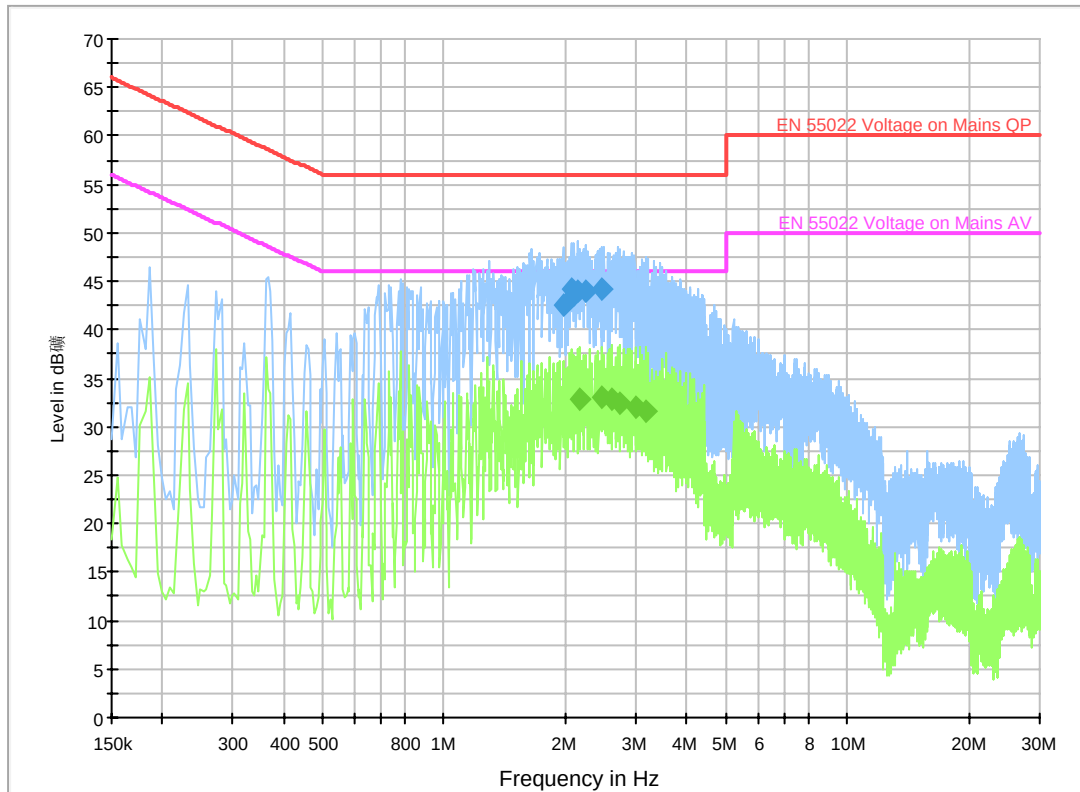
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.285000	33.9	GND	L1	9.8	26.8	60.7
2.616000	25.3	GND	L1	9.7	30.7	56.0
3.241500	25.8	GND	L1	9.7	30.2	56.0
3.822000	26.6	GND	L1	9.7	29.4	56.0
4.447500	27.4	GND	L1	9.7	28.6	56.0
4.996500	27.1	GND	L1	9.8	28.9	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.285000	19.5	GND	L1	9.8	31.2	50.7
1.045500	12.7	GND	L1	9.7	33.3	46.0
2.584500	11.3	GND	L1	9.7	34.7	46.0
3.790500	11.9	GND	L1	9.7	34.1	46.0
4.474500	12.5	GND	L1	9.7	33.5	46.0
4.969500	11.7	GND	L1	9.8	34.3	46.0

WCDMA Band V



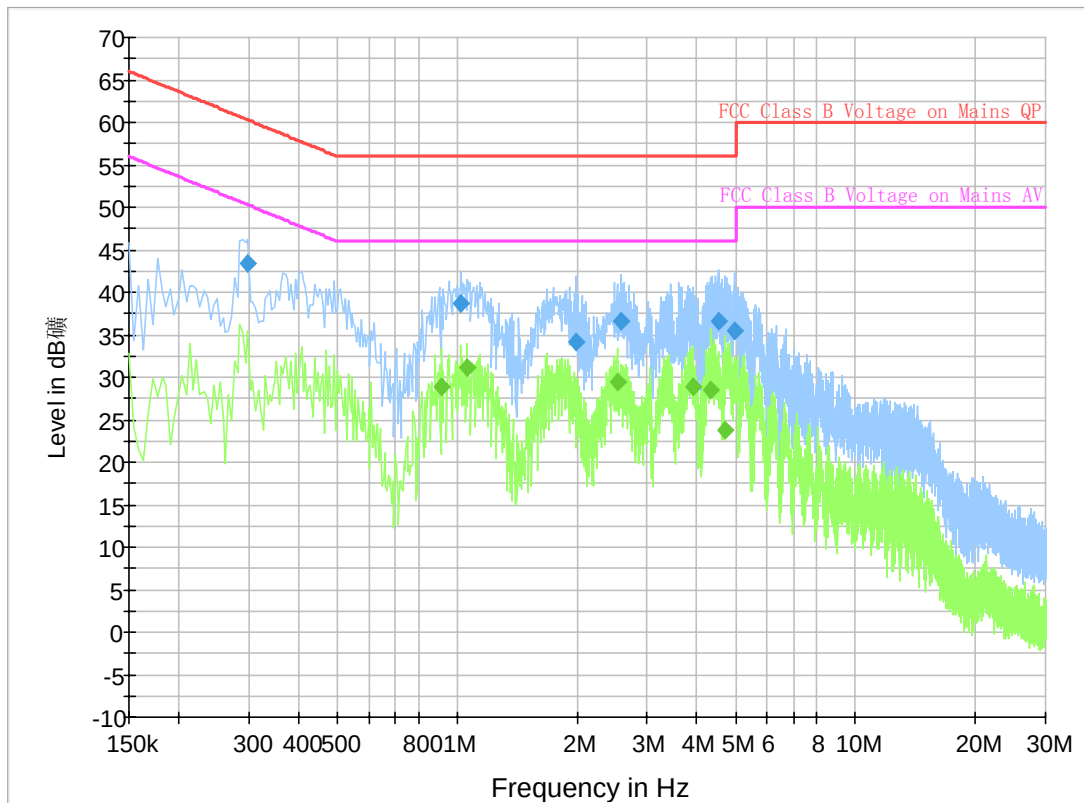
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
1.972501	42.5	GND	N	9.9	13.5	56.0
2.062501	44.2	GND	N	9.9	11.8	56.0
2.107501	43.6	GND	N	9.9	12.4	56.0
2.139001	44.0	GND	N	9.9	12.0	56.0
2.247001	44.0	GND	N	9.9	12.0	56.0
2.472001	44.3	GND	N	9.9	11.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.170501	32.9	GND	N	9.9	13.1	46.0
2.458501	33.0	GND	N	9.9	13.0	46.0
2.611501	32.8	GND	N	9.9	13.2	46.0
2.733001	32.3	GND	N	9.9	13.7	46.0
2.976001	32.0	GND	N	9.9	14.0	46.0
3.174001	31.7	GND	N	9.9	14.3	46.0

WCDMA Band V



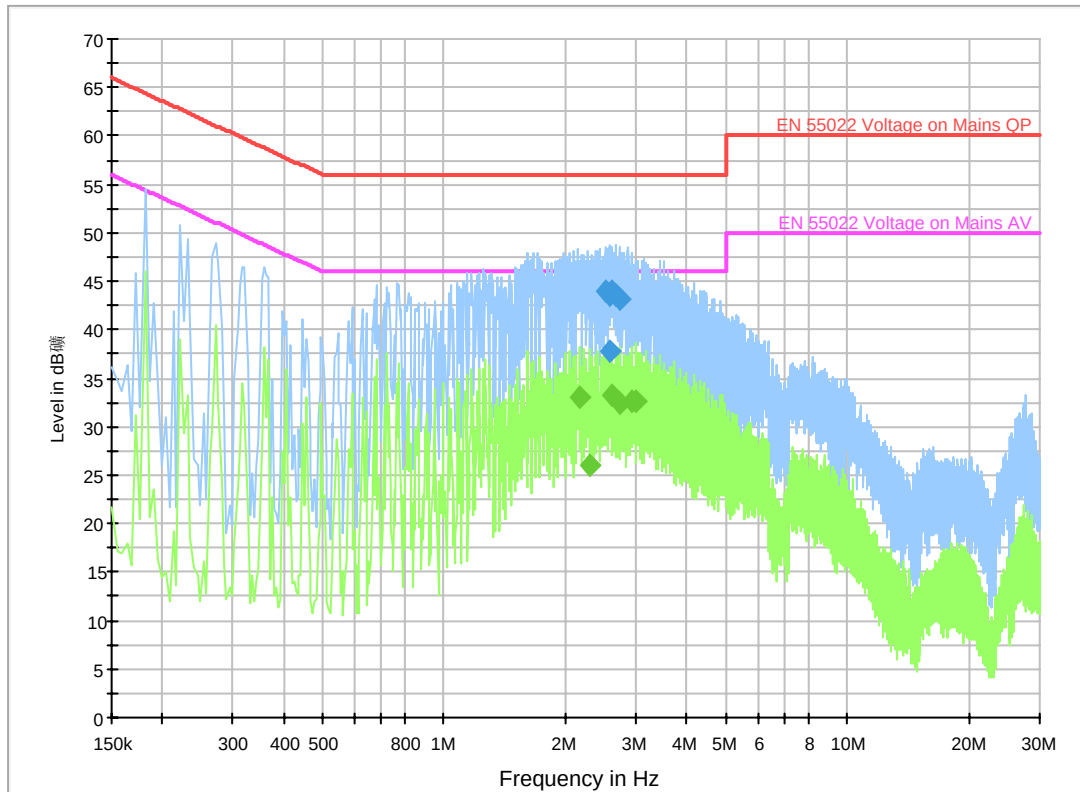
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.298500	43.3	GND	L1	9.8	17.0	60.3
1.023000	38.6	GND	L1	9.7	17.4	56.0
1.995000	34.2	GND	L1	9.7	21.8	56.0
2.580000	36.6	GND	L1	9.7	19.4	56.0
4.515000	36.6	GND	L1	9.7	19.4	56.0
4.951500	35.4	GND	L1	9.8	20.6	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.915000	28.8	GND	L1	9.7	17.2	46.0
1.054500	31.1	GND	L1	9.7	14.9	46.0
2.521500	29.5	GND	L1	9.7	16.5	46.0
3.903000	28.9	GND	L1	9.7	17.1	46.0
4.339500	28.4	GND	L1	9.7	17.6	46.0
4.704000	23.8	GND	L1	9.8	22.2	46.0

MP3



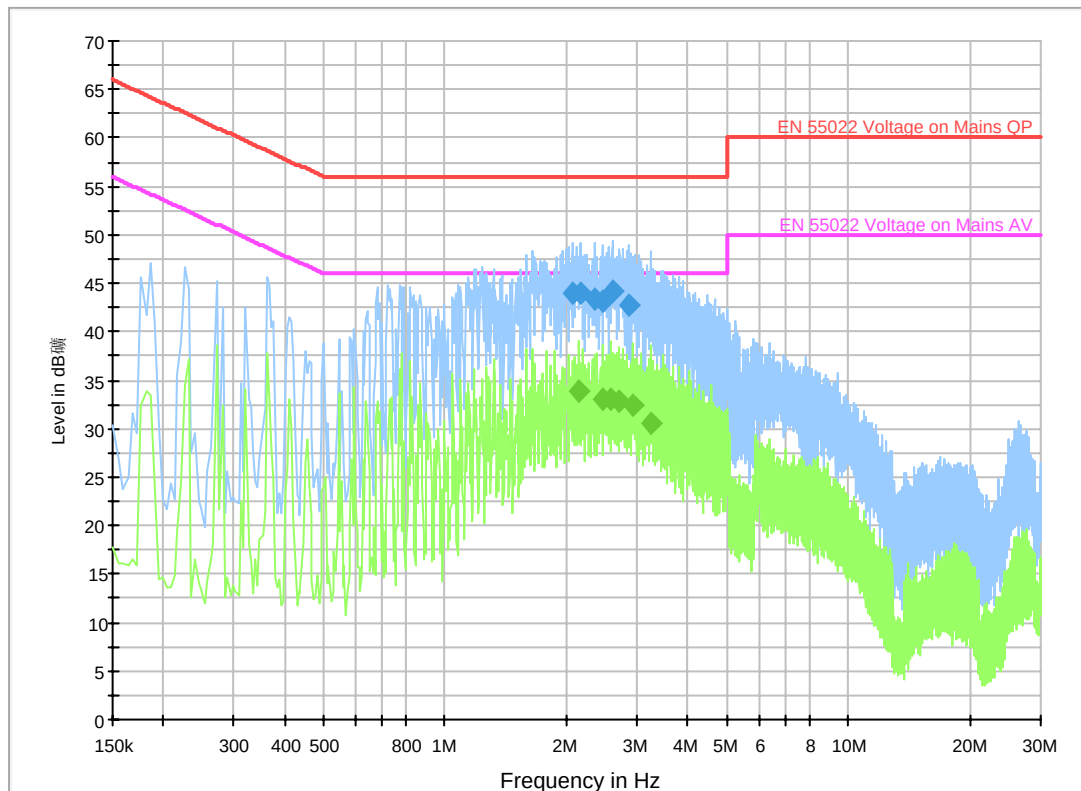
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.508001	44.0	GND	N	9.9	12.0	56.0
2.566501	37.8	GND	L1	9.9	18.2	56.0
2.584501	43.7	GND	N	9.9	12.3	56.0
2.616001	44.0	GND	N	9.9	12.0	56.0
2.661001	43.5	GND	N	9.9	12.5	56.0
2.737501	43.2	GND	N	9.9	12.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.175001	33.0	GND	N	9.9	13.0	46.0
2.296501	26.1	GND	N	9.9	19.9	46.0
2.616001	33.1	GND	N	9.9	12.9	46.0
2.737501	32.5	GND	N	9.9	13.5	46.0
2.935501	32.6	GND	N	9.9	13.4	46.0
2.980501	32.6	GND	N	9.9	13.4	46.0

Camera



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.071501	44.0	GND	N	9.9	12.0	56.0
2.161501	44.1	GND	N	9.9	11.9	56.0
2.359501	43.3	GND	N	9.9	12.7	56.0
2.449501	43.3	GND	N	9.9	12.7	56.0
2.602501	44.1	GND	N	9.9	11.9	56.0
2.845501	42.7	GND	N	9.9	13.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.148001	33.9	GND	N	9.9	12.1	46.0
2.467501	33.0	GND	N	9.9	13.0	46.0
2.589001	33.1	GND	N	9.9	12.9	46.0
2.710501	32.8	GND	N	9.9	13.2	46.0
2.908501	32.4	GND	N	9.9	13.6	46.0
3.228001	30.6	GND	N	9.9	15.4	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, 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	0.008
3.8	16	0.008
4.2	18	0.010

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-7	0.003
-20	-18	0.010
-10	-12	0.006
0	12	0.006
10	-3	0.001
20	-18	0.010
30	17	0.009
40	5	0.003
50	-13	0.007

WCDMA Band V

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-5	0.005
3.8	7	0.008
4.2	-5	0.006

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	7	0.008
-20	11	0.013
-10	7	0.009
0	10	0.012
10	6	0.008
20	4	0.005
30	10	0.012
40	-13	0.016
50	8	0.009

A.5 OCCUPIED BANDWIDTH

A.5.1 Occupied Bandwidth Results

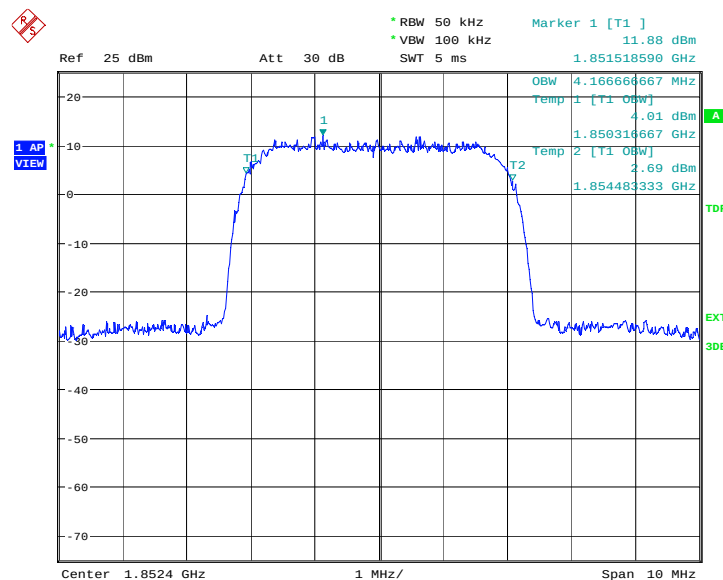
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA Band V. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band II (99% BW)

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

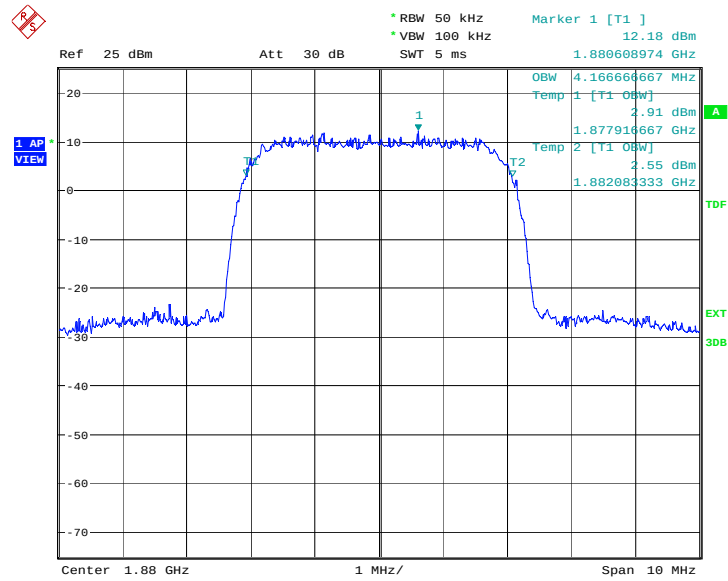
WCDMA Band II

Channel 9262-Occupied Bandwidth (99% BW)



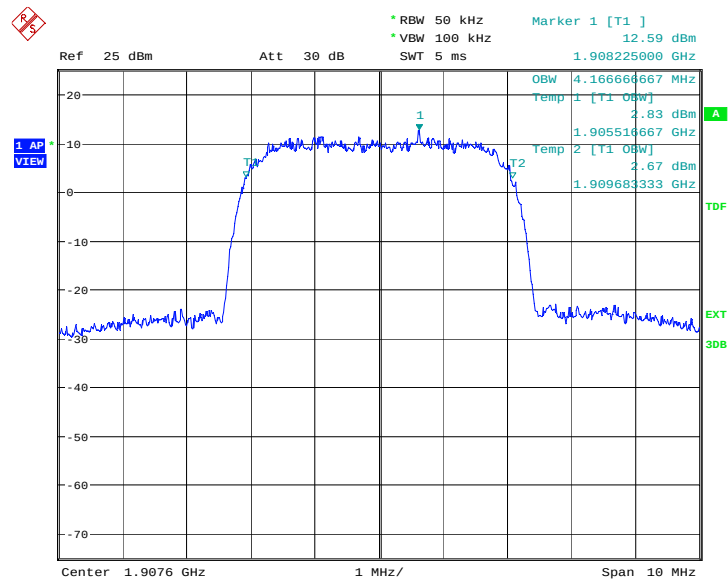
Date: 5.JUL.2013 08:07:12

Channel 9400-Occupied Bandwidth (99% BW)



Date: 5.JUL.2013 08:07:47

Channel 9538-Occupied Bandwidth (99% BW)



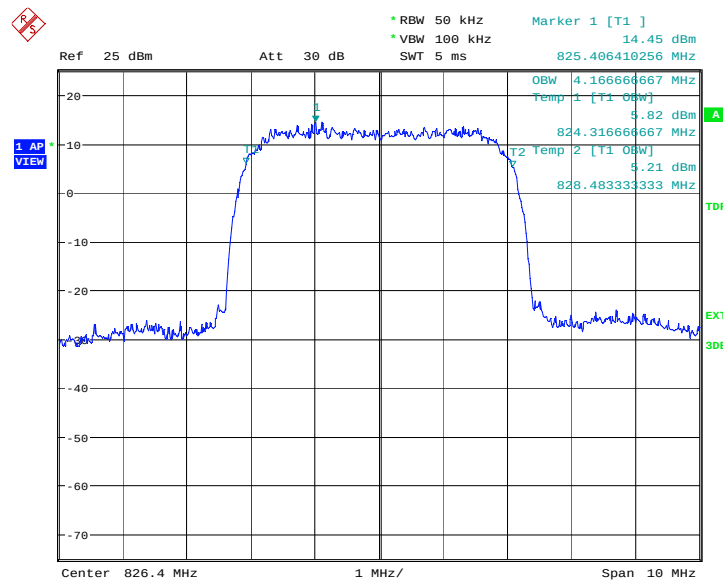
Date: 5.JUL.2013 08:08:22

WCDMA Band V(99% BW)

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

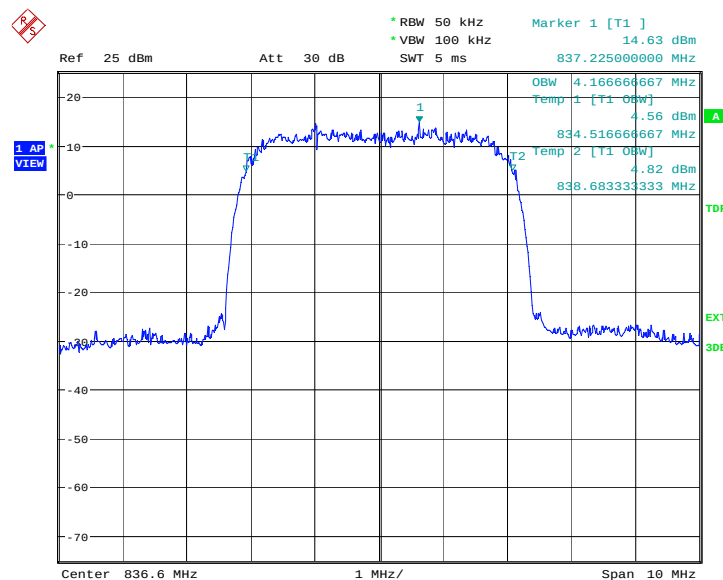
WCDMA Band V

Channel 4132-Occupied Bandwidth (99% BW)



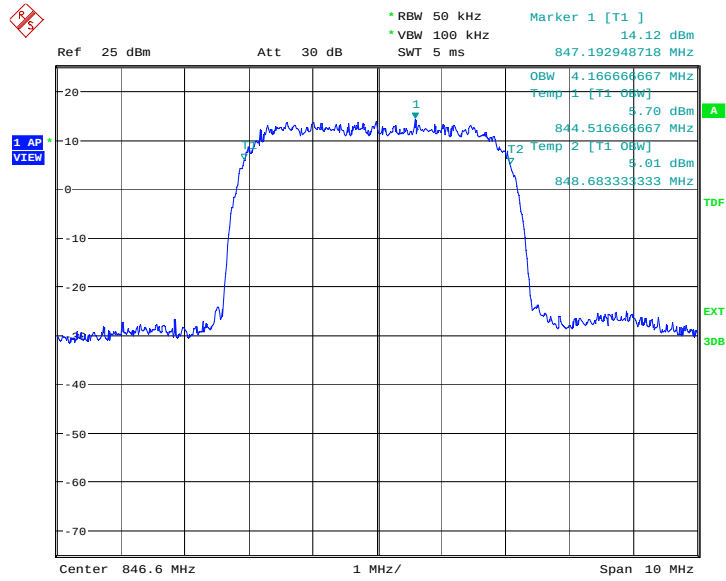
Date: 5.JUL.2013 07:51:00

Channel 4183-Occupied Bandwidth (99% BW)



Date: 5.JUL.2013 07:51:35

Channel 4233-Occupied Bandwidth (99% BW)



Date: 5.JUL.2013 07:52:09

A.6 EMISSION BANDWIDTH

A.6.1 Emission Bandwidth Results

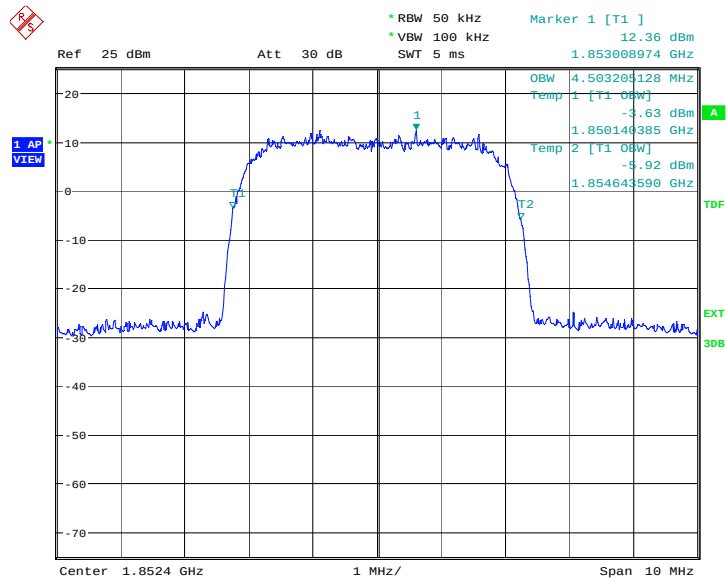
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band II and WCDMA Band V. Table below lists the measured 100% BW. Spectrum analyzer plots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

WCDMA Band II (100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(MHz)
1852.4	4.503
1880.0	4.519
1907.6	4.535

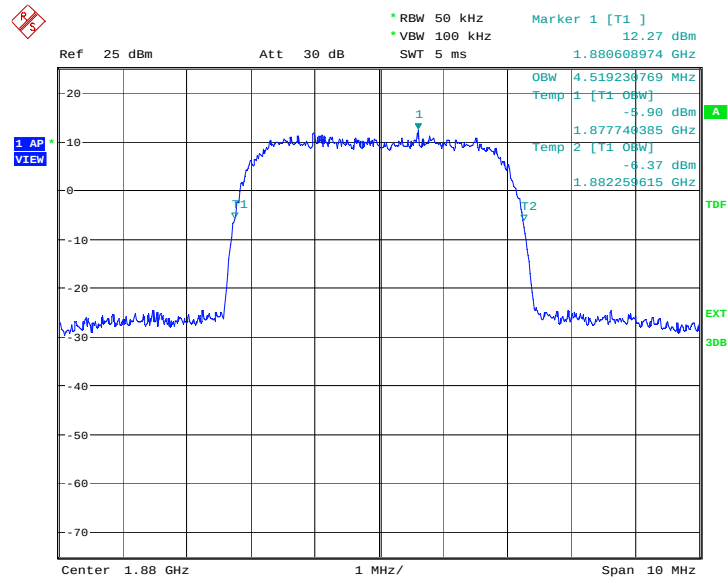
WCDMA Band II

Channel 9262-Emission Bandwidth (100% BW)



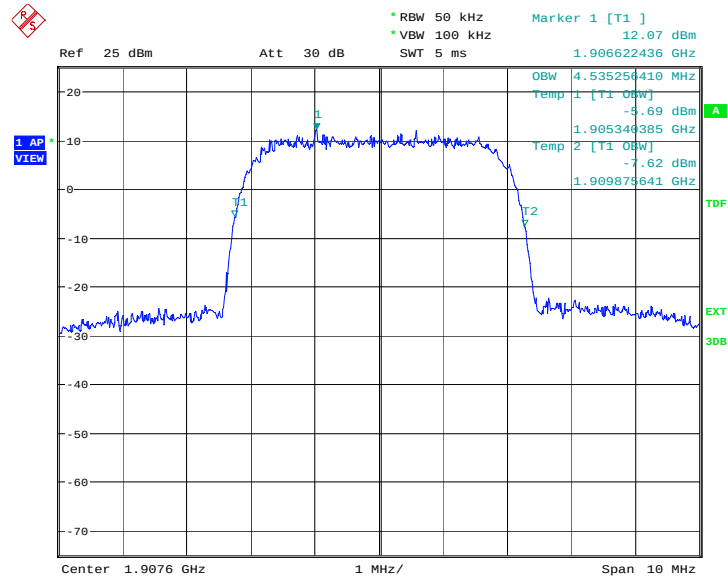
Date: 5.JUL.2013 08:08:58

Channel 9400-Emission Bandwidth (100% BW)



Date: 5.JUL.2013 08:09:32

Channel 9538-Emission Bandwidth (100% BW)



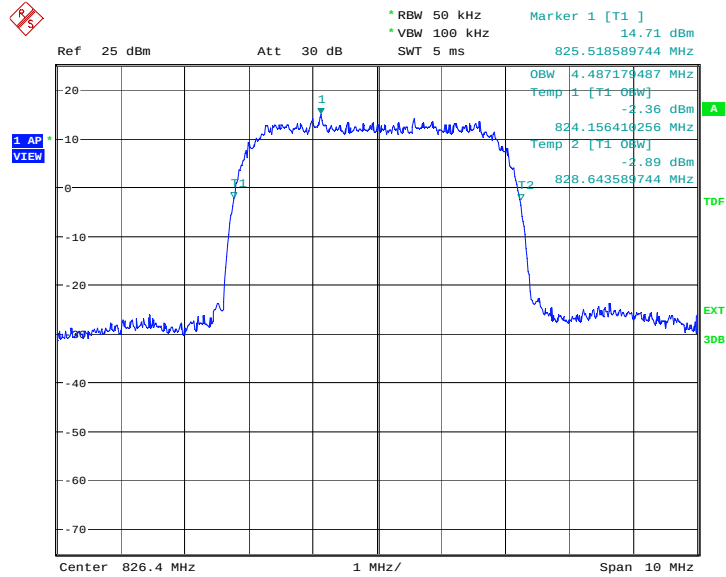
Date: 5.JUL.2013 08:10:07

WCDMA Band V(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(MHz)
826.40	4.487
836.60	4.471
846.60	4.487

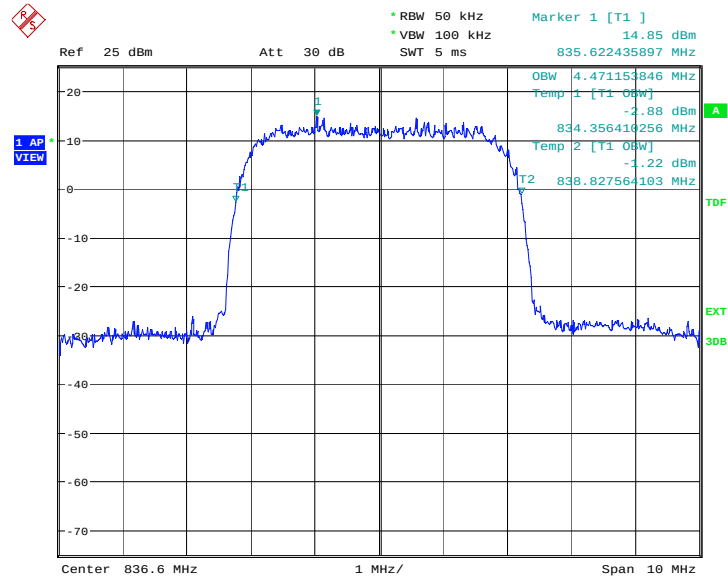
WCDMA Band V

Channel 4132-Emission Bandwidth (100% BW)



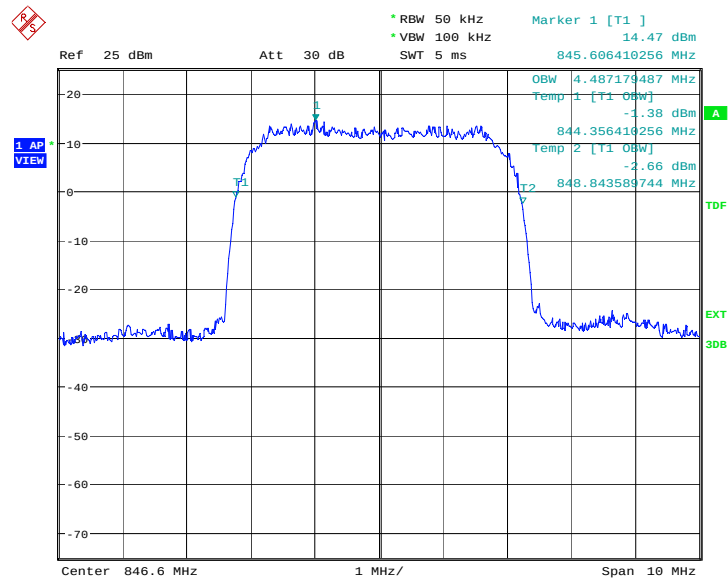
Date: 5.JUL.2013 07:52:46

Channel 4183-Emission Bandwidth (100% BW)



Date: 5.JUL.2013 07:53:20

Channel 4233-Emission Bandwidth (100% BW)

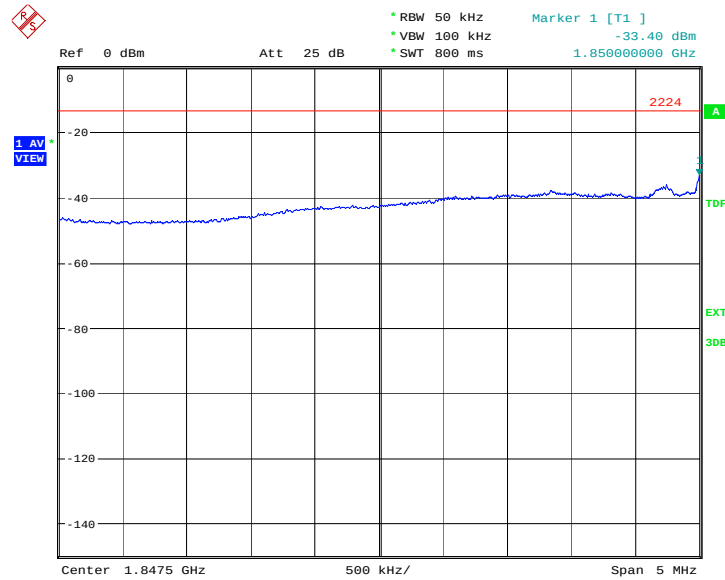


Date: 5.JUL.2013 07:53:55

A.7 BAND EDGE COMPLIANCE

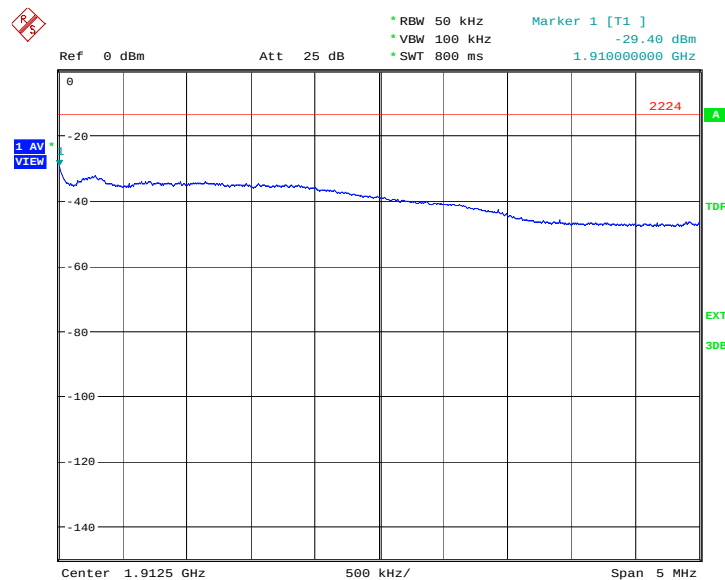
WCDMA Band II

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



Date: 5.JUL.2013 08:10:23

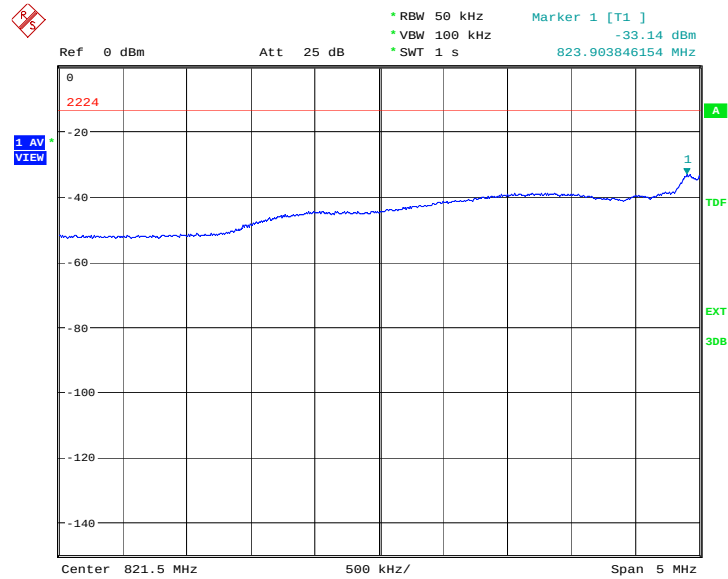
HIGH BAND EDGE BLOCK-C (WCDMA Band II) -Channel 9538



Date: 5.JUL.2013 08:10:39

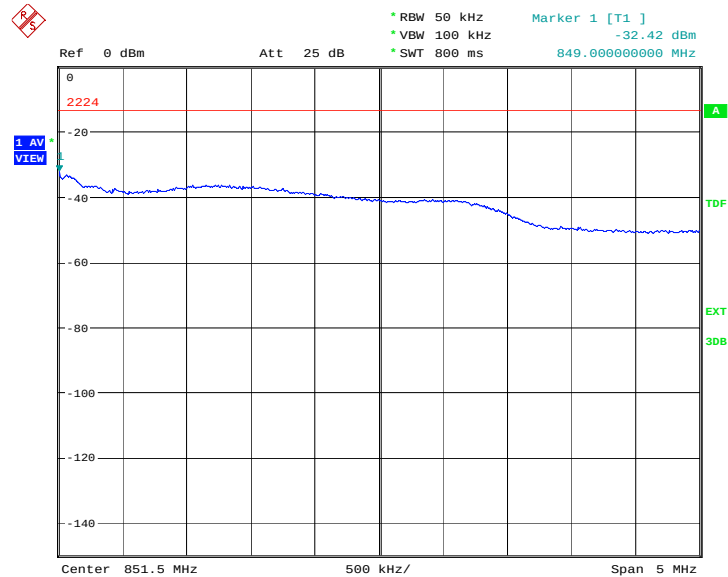
WCDMA Band V

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



Date: 5.JUL.2013 07:54:11

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



Date: 5.JUL.2013 07:54:27

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.

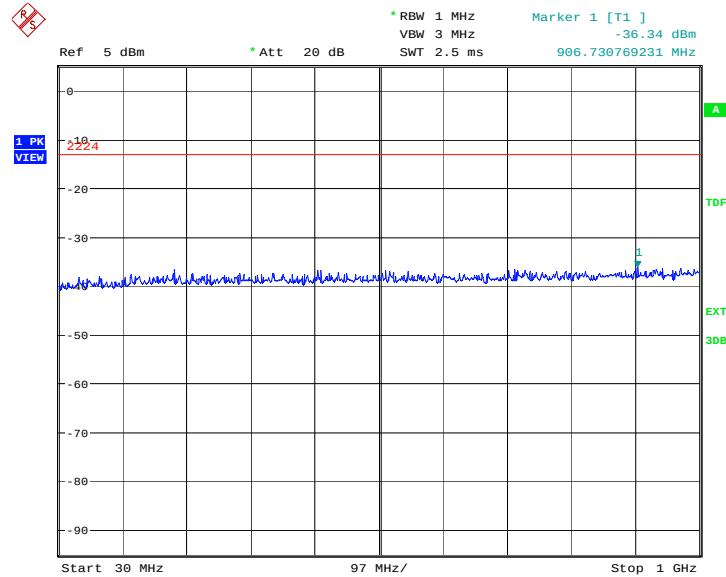
The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13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

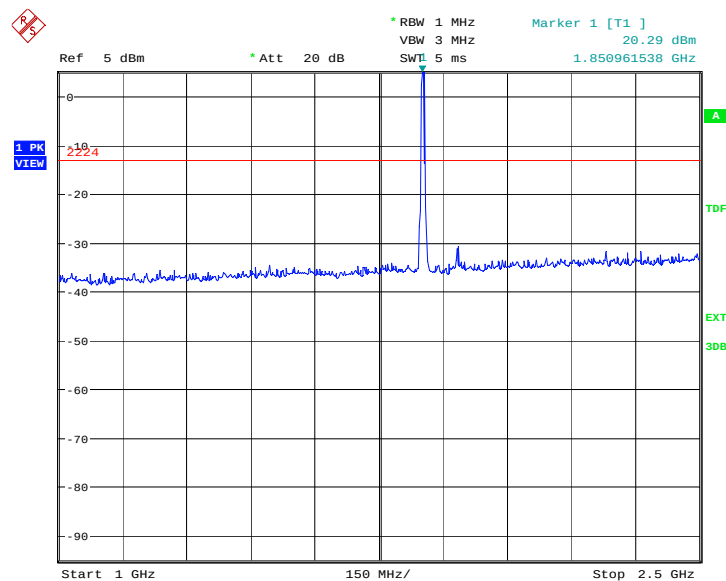


Date: 5.JUL.2013 08:11:10

A.8.3.2 Channel 9262: 1GHz –2.5GHz

Spurious emission limit –13dBm.

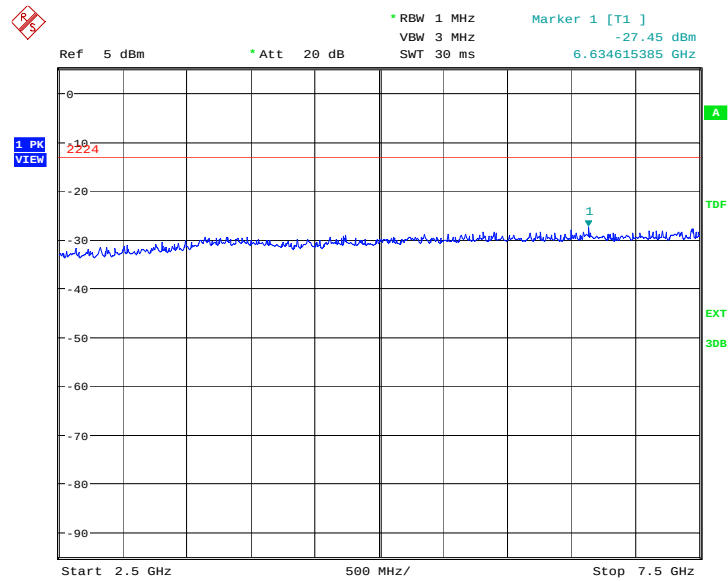
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 08:11:38

A.8.3.3 Channel 9262: 2.5GHz –7.5GHz

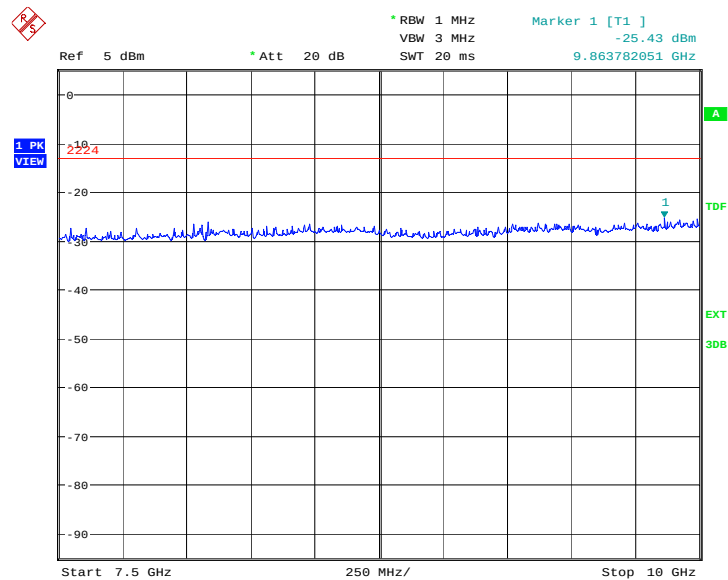
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:12:07

A.8.3.4 Channel 9262: 7.5GHz –10GHz

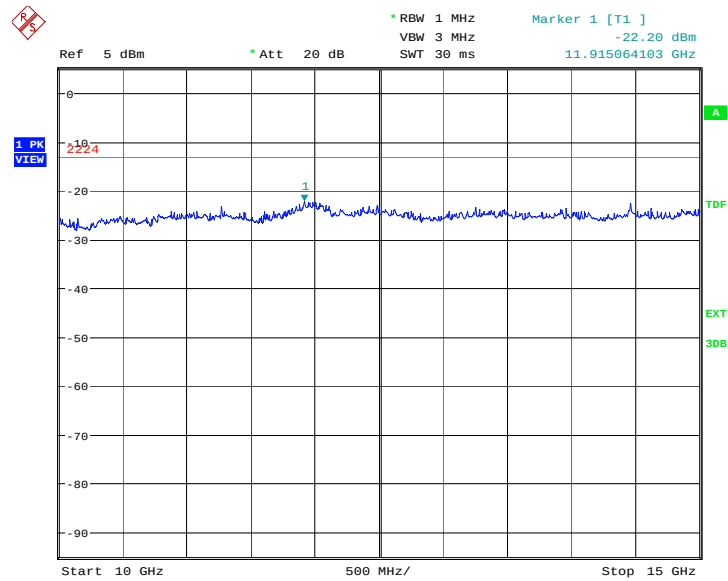
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:12:35

A.8.3.5 Channel 9262: 10GHz –15GHz

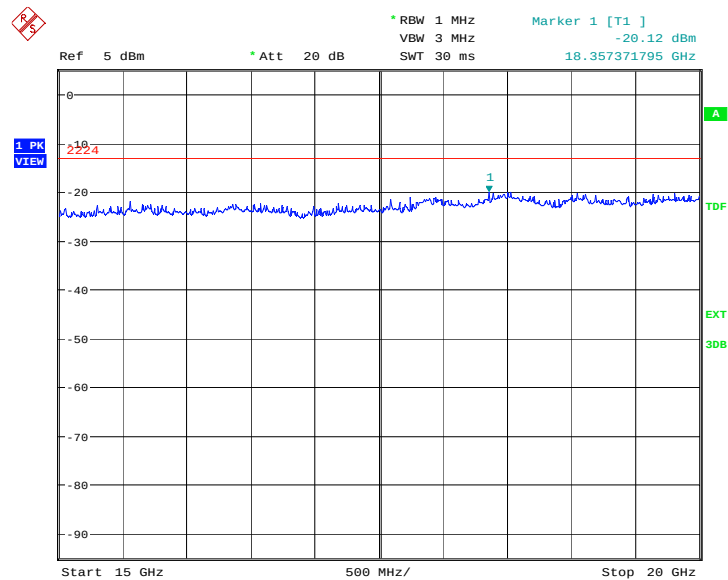
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:13:03

A.8.3.6 Channel 9262: 15GHz –20GHz

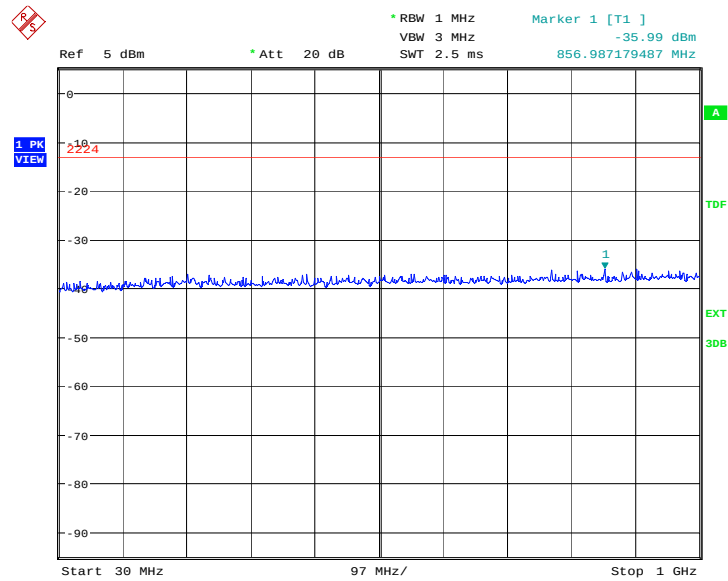
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:13:31

A. 8.3.7 Channel 9400: 30MHz –1GHz

Spurious emission limit –13dBm.

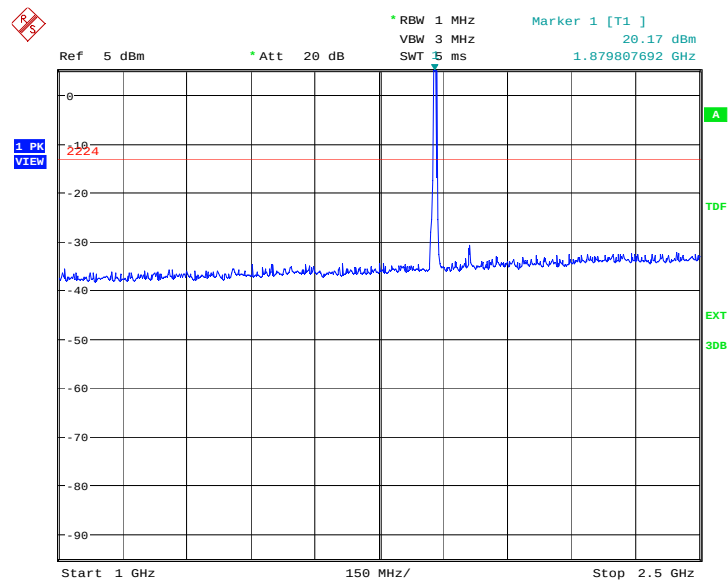


Date: 5.JUL.2013 08:14:02

A.8.3.8 Channel 9400: 1GHz –2.5GHz

Spurious emission limit –13dBm.

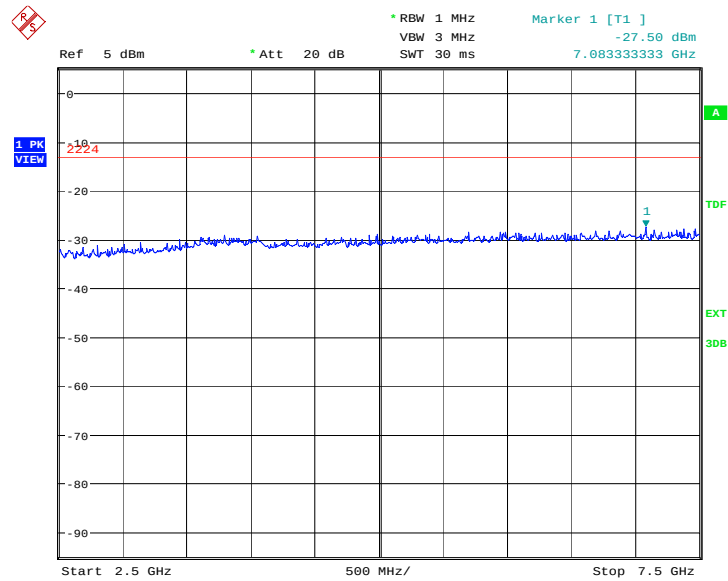
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 08:14:30

A.8.3.9 Channel 9400: 2.5GHz –7.5GHz

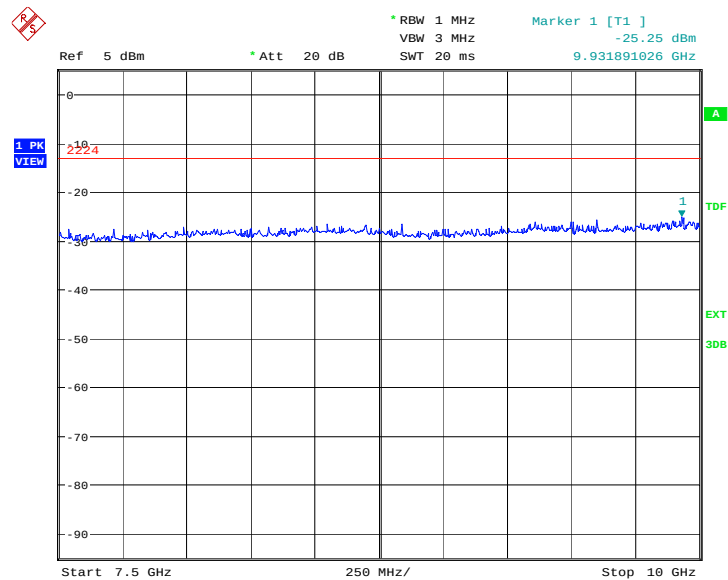
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:14:58

A.8.3.10 Channel 9400: 7.5GHz –10GHz

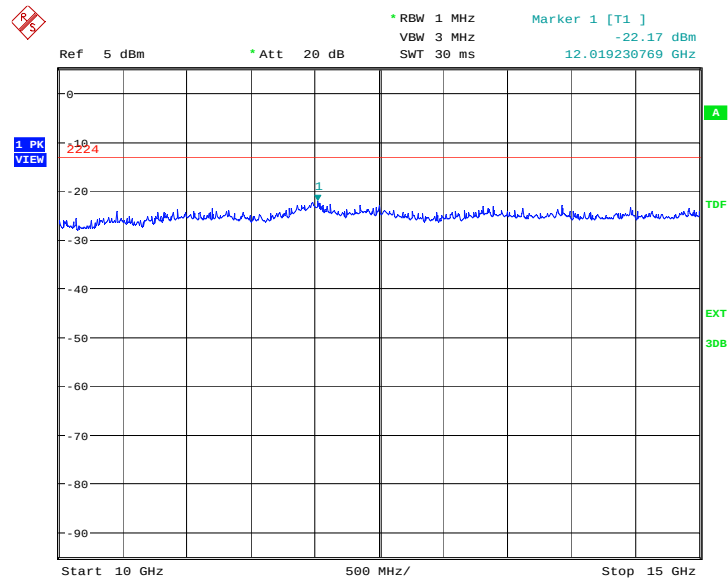
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:15:27

A.8.3.11 Channel 9400: 10GHz –15GHz

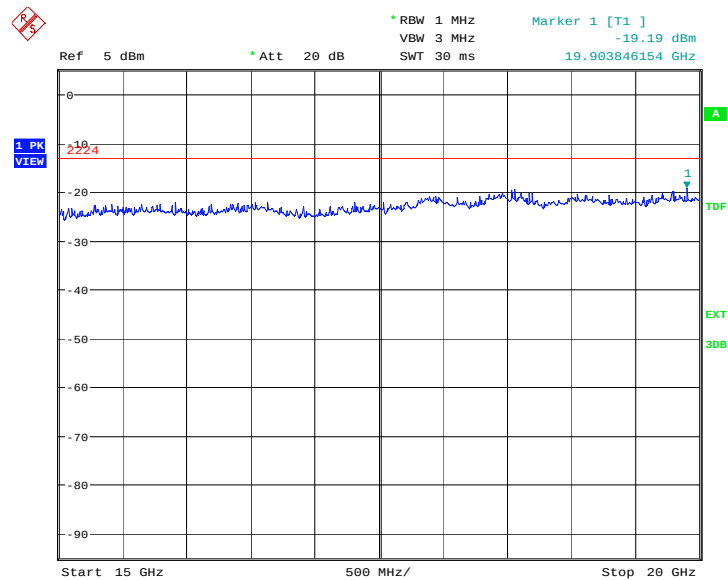
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:15:55

A.8.3.12 Channel 9400: 15GHz –20GHz

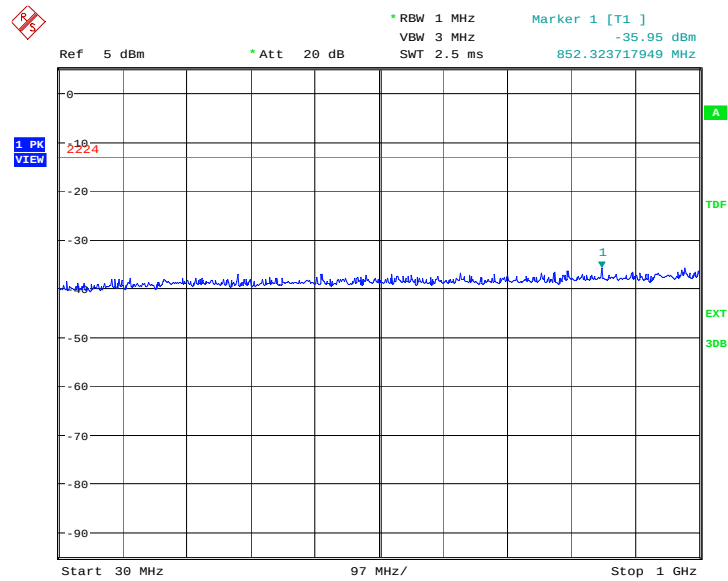
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:16:23

A. 8.3.13 Channel 9538: 30MHz –1GHz

Spurious emission limit –13dBm.

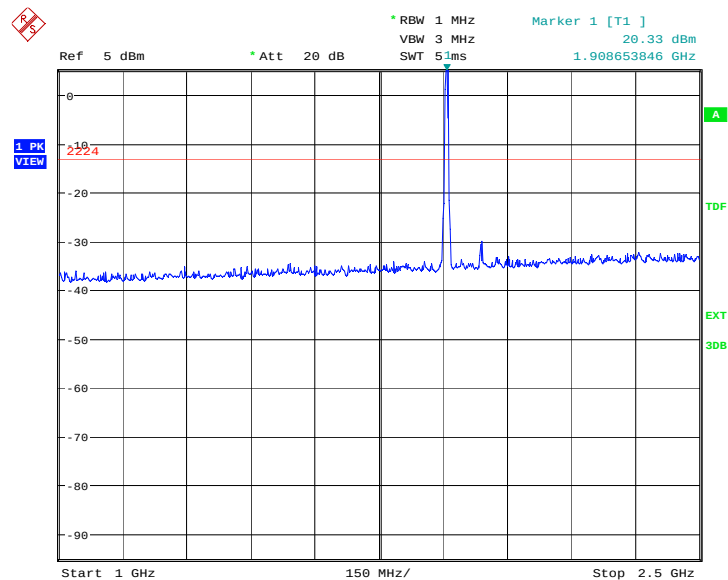


Date: 5.JUL.2013 08:16:54

A.8.3.14 Channel 9538: 1GHz –2.5GHz

Spurious emission limit –13dBm.

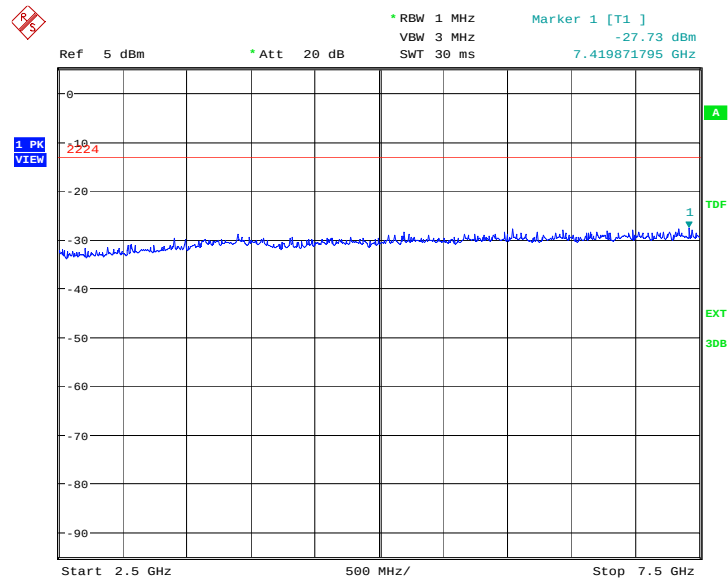
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 08:17:22

A.8.3.15 Channel 9538: 2.5GHz –7.5GHz

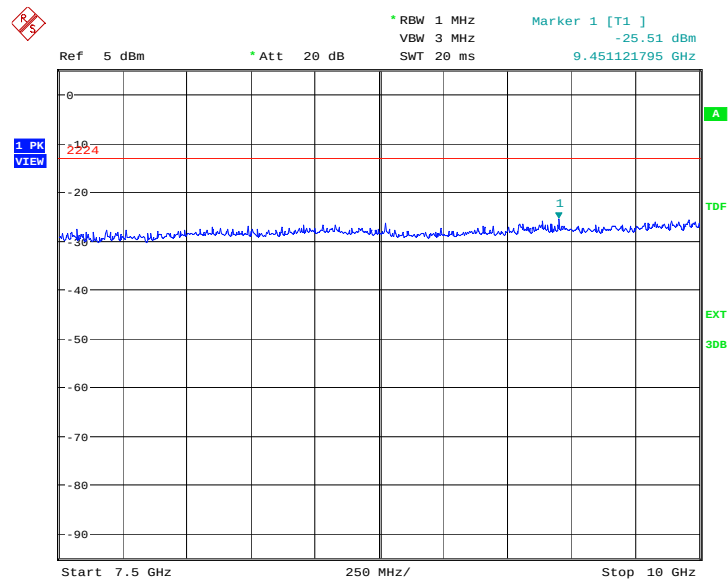
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:17:50

A.8.3.16 Channel 9538: 7.5GHz –10GHz

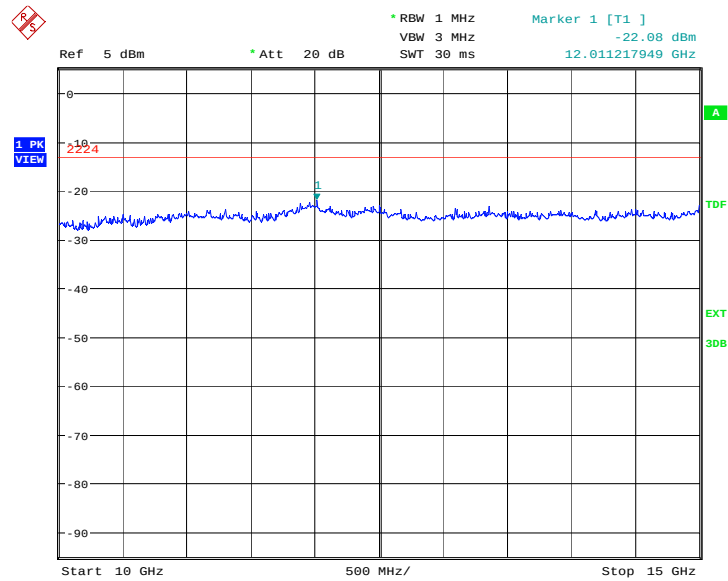
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:18:18

A.8.3.17 Channel 9538: 10GHz –15GHz

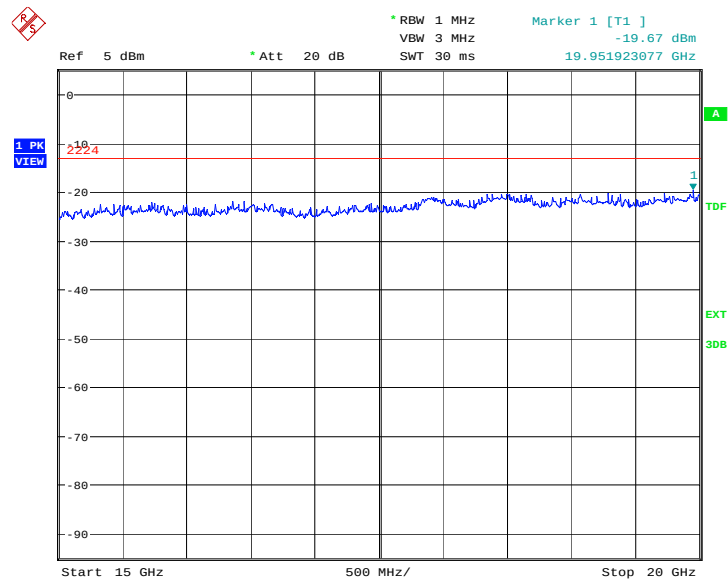
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:18:46

A.8.3.18 Channel 9538: 15GHz –20GHz

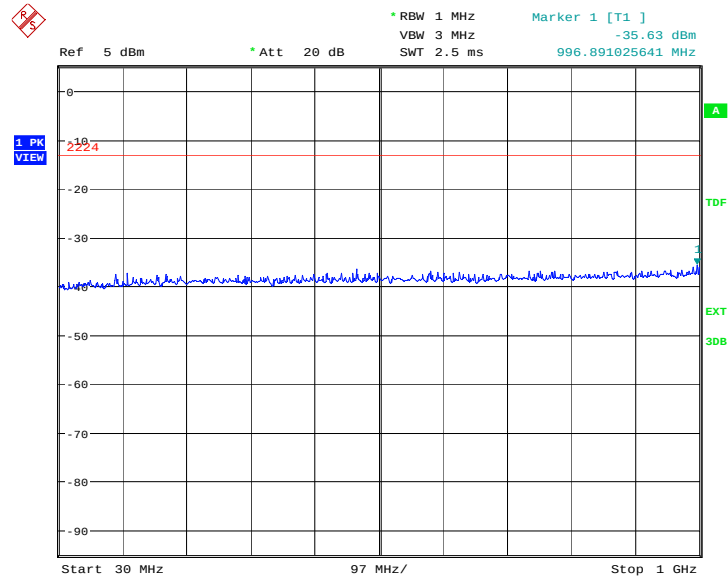
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:19:15

A. 8.3.19 Idle mode: 30MHz –1GHz

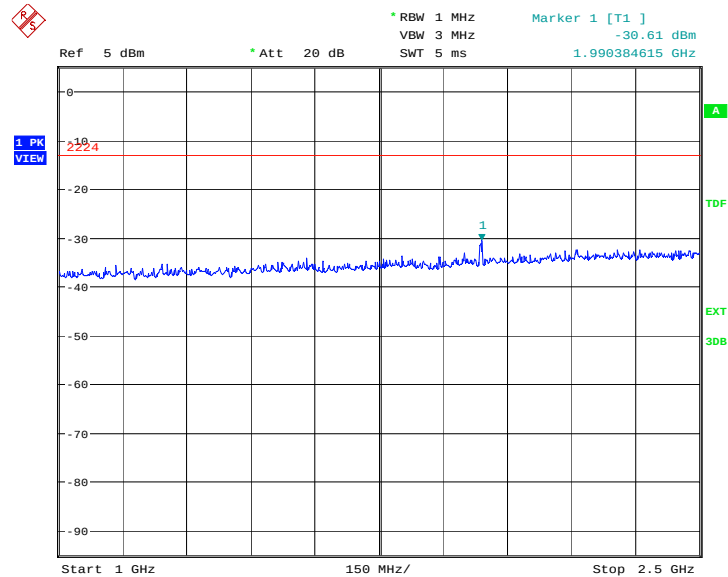
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:19:44

A.8.3.20 Idle mode: 1GHz –2.5GHz

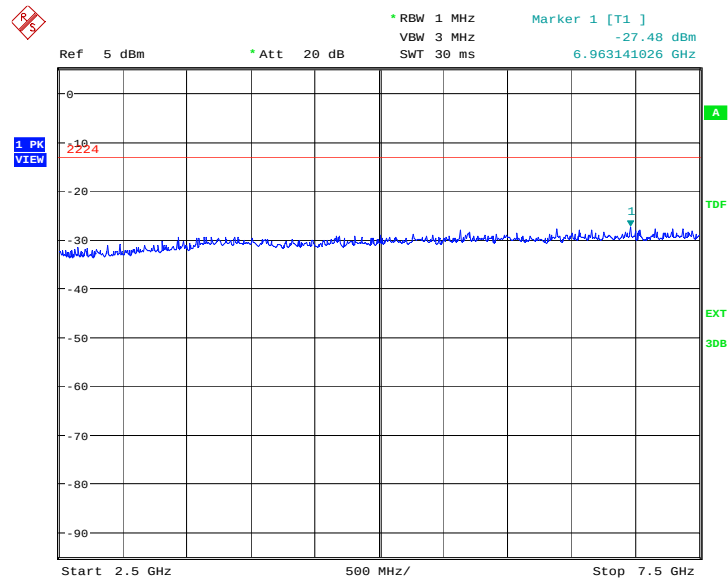
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:20:12

A.8.3.21 Idle mode: 2.5GHz –7.5GHz

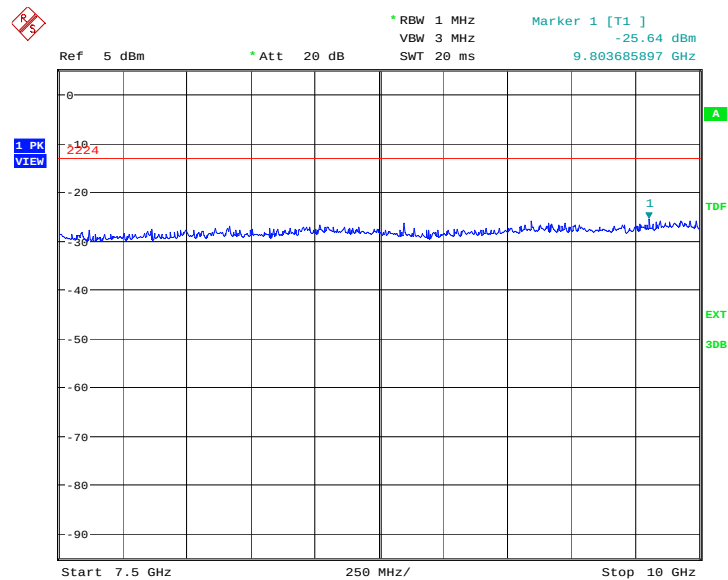
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:20:40

A.8.3.22 Idle mode: 7.5GHz –10GHz

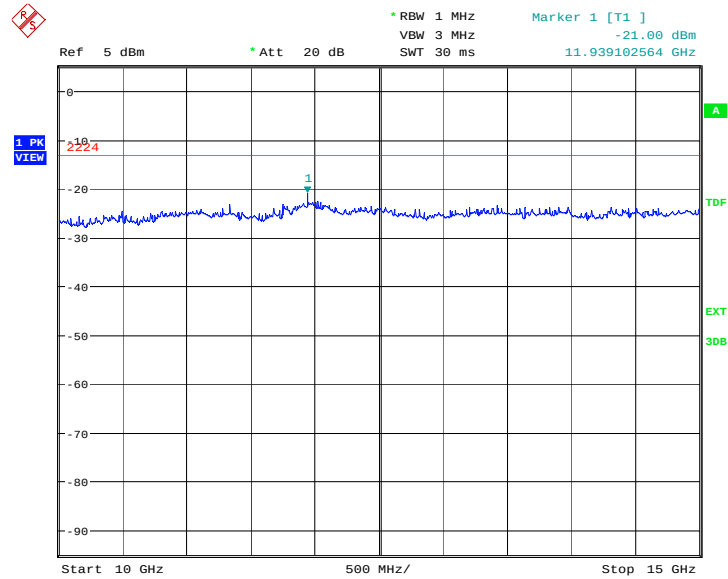
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:21:08

A.8.3.23 Idle mode: 10GHz –15GHz

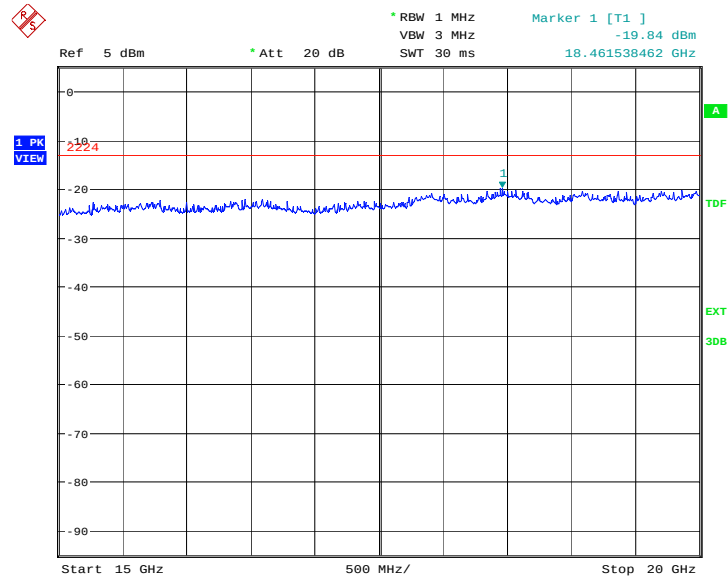
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:21:36

A.8.3.24 Idle mode: 15GHz –20GHz

Spurious emission limit –13dBm.



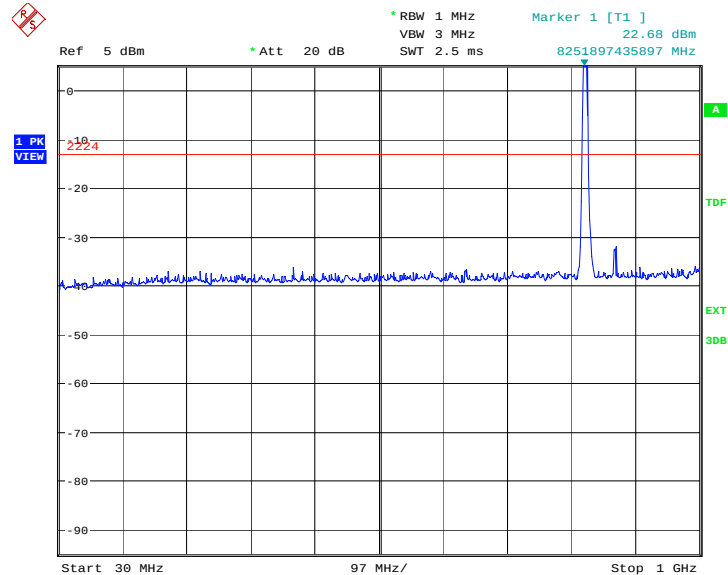
Date: 5.JUL.2013 08:22:04

WCDMA Band V

A. 8.3.25 Channel 4132: 30MHz –1GHz

Spurious emission limit –13dBm.

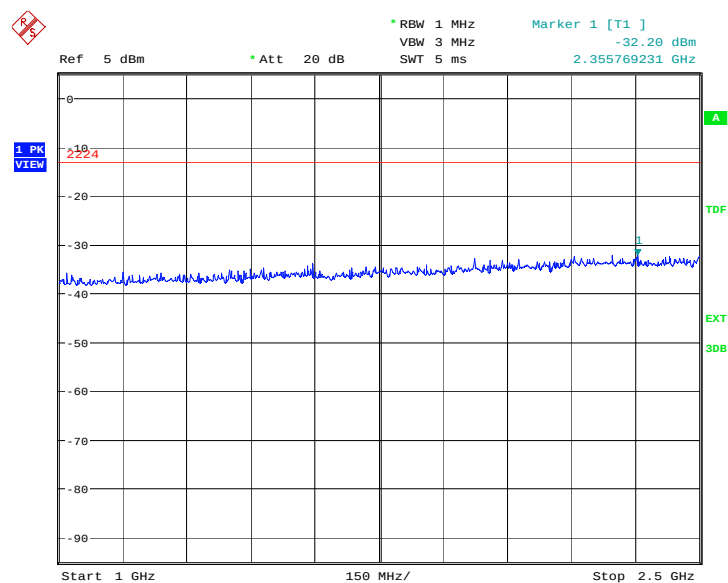
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 07:54:58

A. 8.3.26 Channel 4132: 1GHz – 2.5GHz

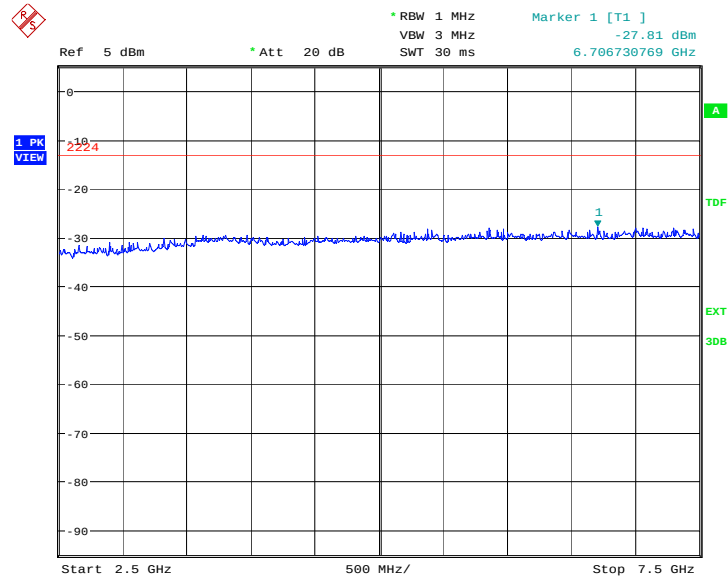
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:55:26

A. 8.3.27 Channel 4132: 2.5GHz – 7.5GHz

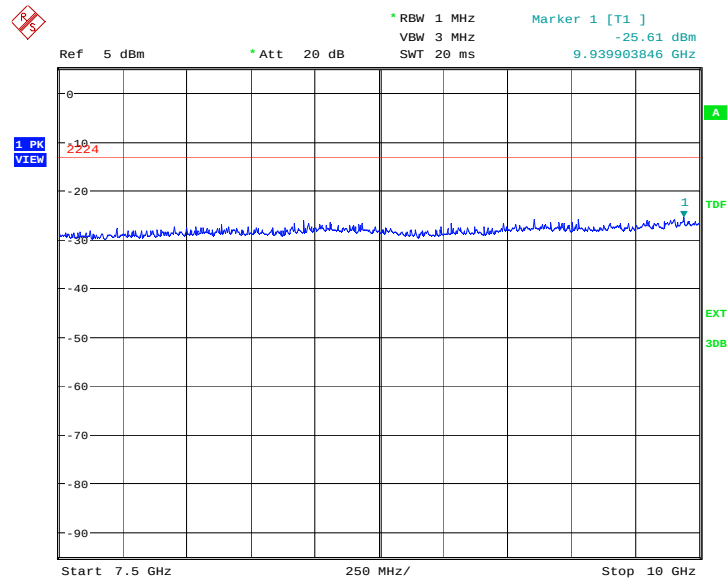
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:55:54

A. 8.3.28 Channel 4132: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

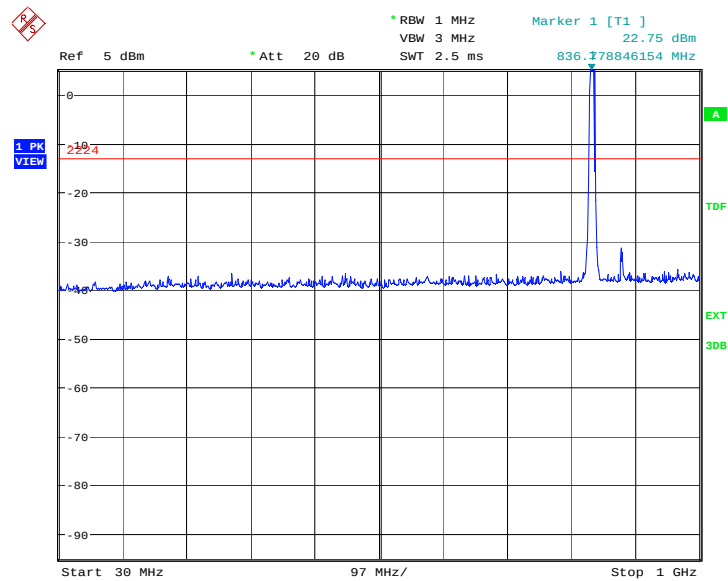


Date: 5.JUL.2013 07:56:22

A. 8.3.29 Channel 4183: 30MHz –1GHz

Spurious emission limit –13dBm.

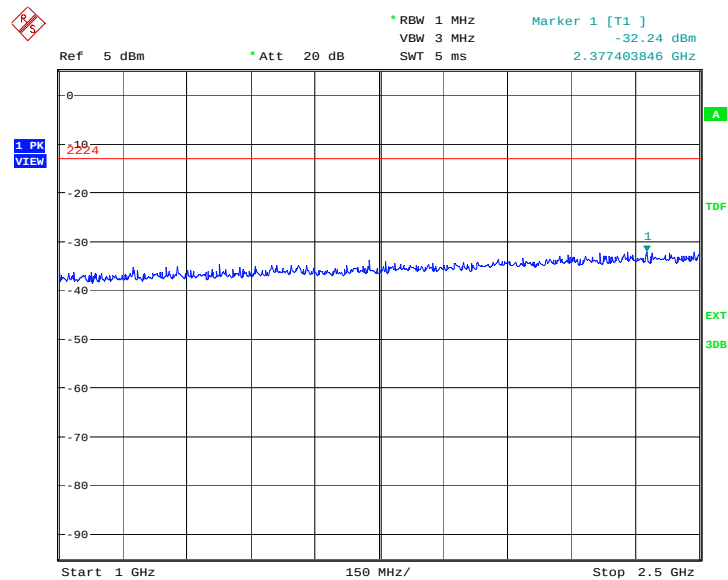
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 07:56:53

A.8.3.30 Channel 4183: 1GHz – 2.5GHz

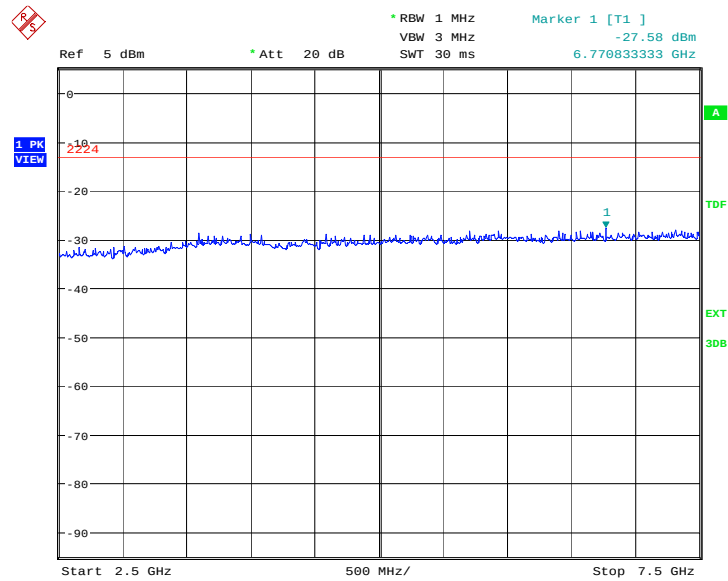
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:57:21

A. 8.3.31 Channel 4183: 2.5GHz – 7.5GHz

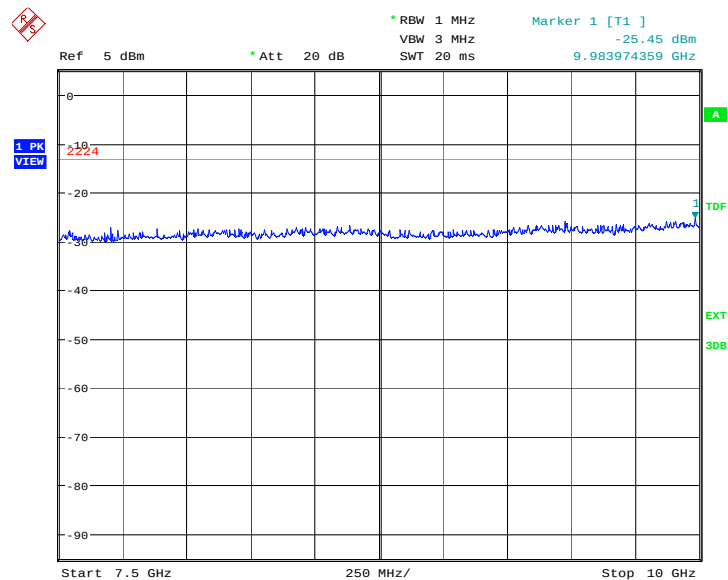
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:57:49

A. 8.3.32 Channel 4183: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

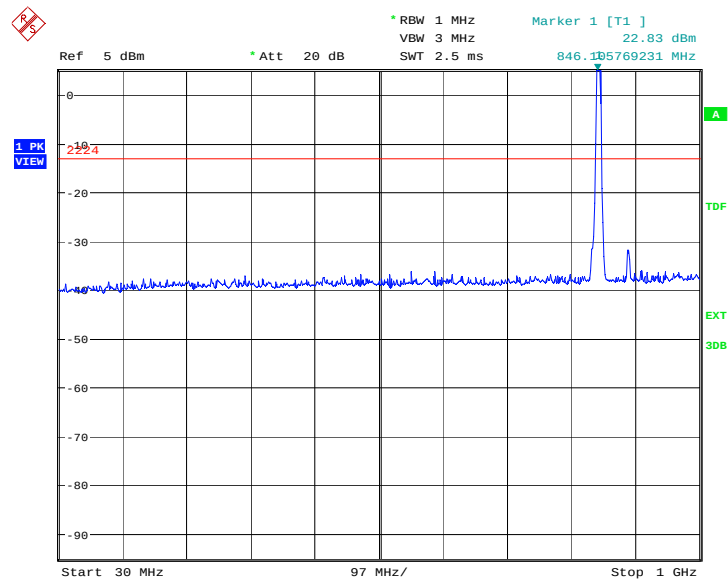


Date: 5.JUL.2013 07:58:17

A. 8.3.33 Channel 4233: 30MHz –1GHz

Spurious emission limit –13dBm.

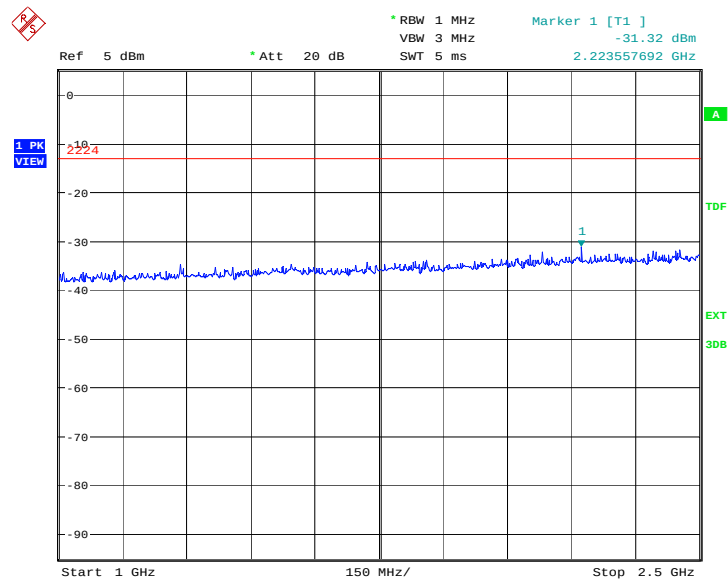
NOTE: peak above the limit line is the carrier frequency.



Date: 5.JUL.2013 07:58:48

A. 8.3.34 Channel 4233: 1GHz – 2.5GHz

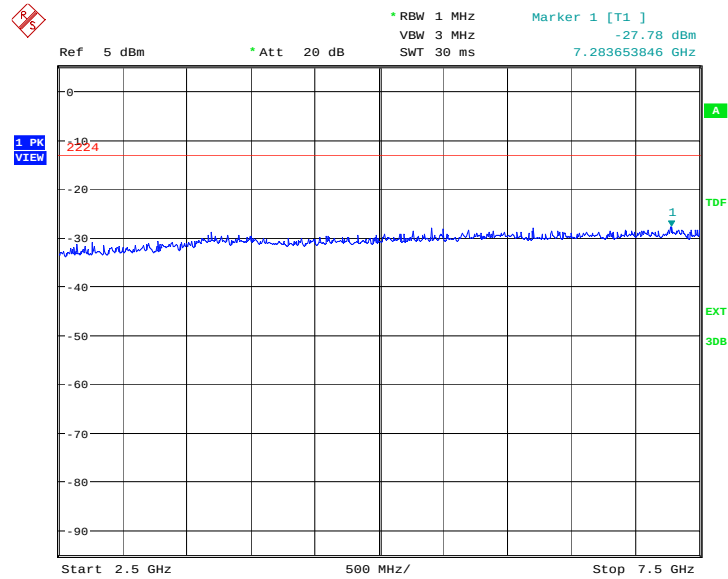
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:59:17

A. 8.3.35 Channel 4233: 2.5GHz – 7.5GHz

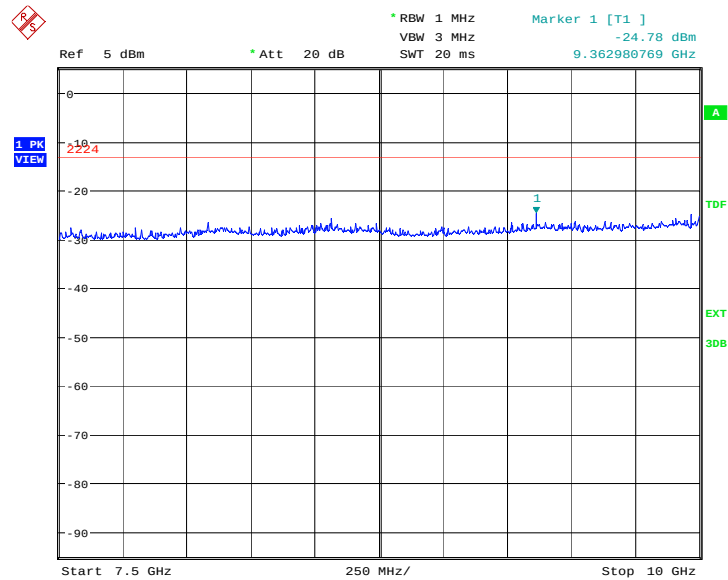
Spurious emission limit –13dBm.



Date: 5.JUL.2013 07:59:45

A. 8.3.36 Channel 4233: 7.5GHz – 10GHz

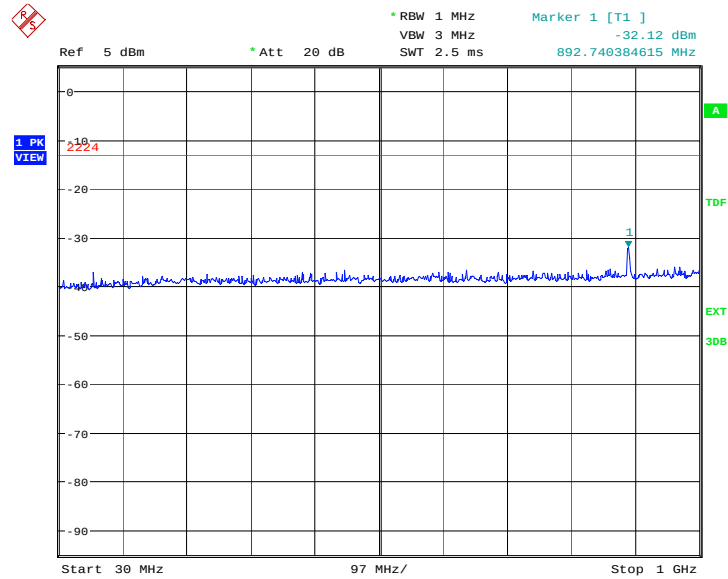
Spurious emission limit –13dBm.



Date: 5.JUL.2013 08:00:13

A. 8.3.37 Idle mode: 30MHz – 1GHz

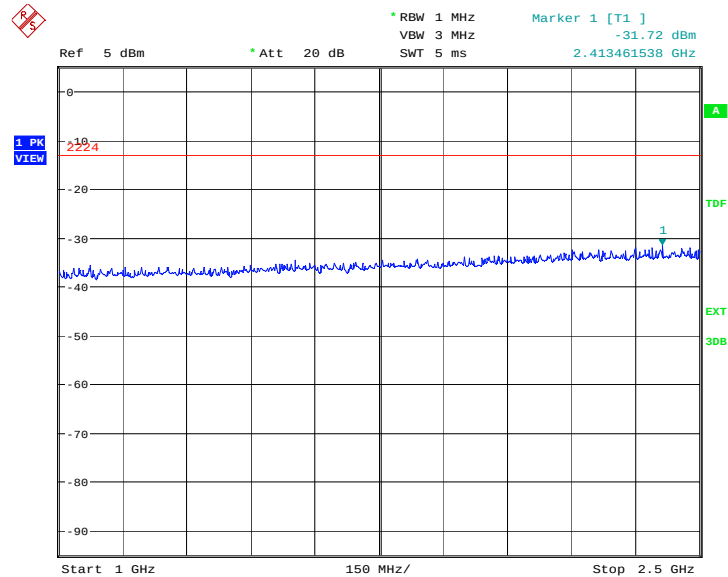
Spurious emission limit -13dBm.



Date: 5.JUL.2013 08:00:42

A.8.3.38 Idle mode: 1GHz – 2.5GHz

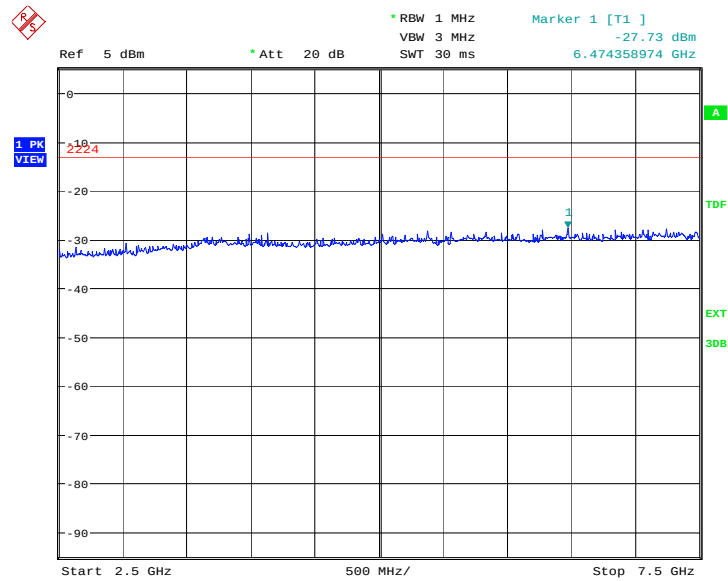
Spurious emission limit -13dBm.



Date: 5.JUL.2013 08:01:10

A.8.3.39 Idle mode: 2.5GHz – 7.5GHz

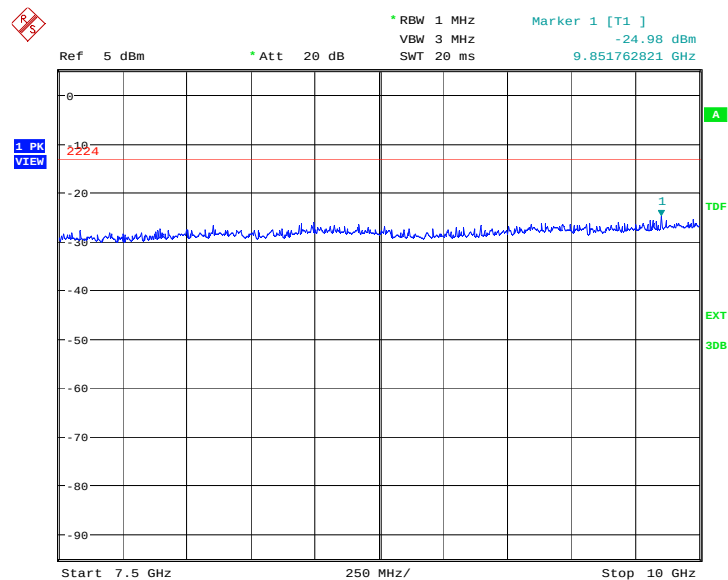
Spurious emission limit -13dBm.



Date: 5.JUL.2013 08:01:38

A.8.3.40 Idle mode: 7.5GHz – 10GHz

Spurious emission limit -13dBm.



Date: 5.JUL.2013 08:02:06

END OF REPORT