



TEST REPORT

No. I17N00032-WCDMA

for

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Smart phone

Model Name: Coolpad 3632A

FCC ID: R38YL3632A

with

Hardware Version: P2

Software Version: 7.0.013.00.P0.161201.3632A.tmo

Issued Date: 2017-02-15

Note:

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

Test Laboratory:

FCC 2.948 Listed: No. 342690

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I17N00032-WCDMA	Rev.0	1st edition	2017-02-15

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1. Test Laboratory

1.1. Testing Location

Company Name: CTTL ShenZhen, Telecommunication Technology Labs, Academy of
Telecommunication Research, MIIT
Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan
District, Shenzhen, Guangdong, China
Postal Code: 518048
Telephone: +86(755)33322000
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1.2. Testing Environment

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

1.3. Project data

Testing Start Date: 2017-01-12
Testing End Date: 2017-02-15

1.4. Signature

Lai Minghua

(Prepared this test report)

Yang Zi'an

(Reviewed this test report)

Zhang Bojun

Deputy Director of the laboratory
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address /Post: Coolpad Information Harbor, High-tech Industrial Park (North),
Nanshan District, Shenzhen, P.R.C
Contact Person: wangping
Contact Email: wangping1@yulong.com
Telephone: 0755-83301199-83335
Fax: /

2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address /Post: Coolpad Information Harbor, High-tech Industrial Park (North),
Nanshan District, Shenzhen, P.R.C
Contact Person: wangping
Contact Email: wangping1@yulong.com
Telephone: 0755-83301199-83335
Fax: /

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

3.1. About EUT

Description	Smart phone
Model Name	Coolpad 3632A
FCC ID	R38YL3632A
Antenna	Integrated
Output power	26.30dBm maximum ERP measured for Band V
Extreme vol. Limits	3.7VDC to 4.4VDC (nominal: 4.0VDC)
Extreme temp. Tolerance	-30°C to +50°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Sample Arrival Date
S01	862006030002947	P2	7.0.013.00.P0.16 1201.3632A.tmo	2017-01-12
S02	862006030005098	P2	7.0.013.00.P0.16 1201.3632A.tmo	2017-01-12

*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	Battery1
AE2	Battery2
AE3	Charger

AE1

Model	CPLD-417
Manufacturer	Tianjin Lishen Battery Joint-Stock Co.,Ltd.
Capacitance	2450mAh

AE2

Model	CPLD-417
Manufacturer	Zhuhai COSLIGHT Battery CO., Ltd.
Capacitance	2450mAh

AE3

Model	CYSN05-050100
Manufacturer	JIANGSU CHENYANG ELECTRON CO.,LTD.

*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 HSDPA/HSUPA/UMTS Triband / GSM quadband / LTE 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.

4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-15 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-15 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-15 Edition
FCC Part 27	WIRELESS COMMUNICATIONS SERVICES	10-1-15 Edition
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v02r02

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

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

7. Test Equipments Utilized

NO.	Description	TYPE	Manufacture	series number	CAL DUE DATE
1	Test Receiver	ESR7	R&S	101675	2017-07-21
2	BiLog Antenna	VULB9163	Schwarzbeck	9163 330	2017-04-22
3	Horn Antenna	3117	ETS-Lindgren	00066585	2019-03-05
4	Signal Generator	SMR40	R&S	100541	2017-06-27
5	Fully Anechoic Chamber	FACT5-2.0	ETS-Lindgren	4166	2018-05-13
6	Spectrum Analyzer	FSP40	R&S	100378	2017-12-15
7	Universal Radio Communication Tester	CMU200	R&S	114544	2017-09-09
8	Universal Radio Communication Tester	CMU200	R&S	123210	2017.12.25
9	Spectrum Analyzer	FSU	R&S	200679	2017.12.25
10	Temperature Chamber	SH-241	ESPECs	92007516	2017.11.29
11	DC Power Supply	U3606A	Agilent Technologies	MY50450012	2017.11.22

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 or CMW500) to ensure max power transmission and proper modulation.

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

These measurements were done at 3 frequencies, 1852.4 MHz, 1880.0MHz and 1907.6MHz for WCDMA Band II; 826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band V and 1712.4MHz, 1740.0MHz and 1752.6MHz for WCDMA Band IV (bottom, middle and top of operational frequency range).

Limit

According to FCC§2.1046.

WCDMA Band II

Measurement result

QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band II)	9262	1852.4	23.69
	9400	1880.0	23.83
	9538	1907.6	23.78

WCDMA Band V

Measurement result

QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band V)	4132	826.4	24.86
	4183	836.6	24.77
	4233	846.6	24.88

WCDMA Band IV

Measurement result

QPSK

	CH	Frequency(MHz)	output power(dBm)
WCDMA (Band IV)	1312	1712.4	23.86
	1450	1740.0	23.84
	1513	1752.6	23.93

A.1.3 Radiated

A.1.3.1 Description

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

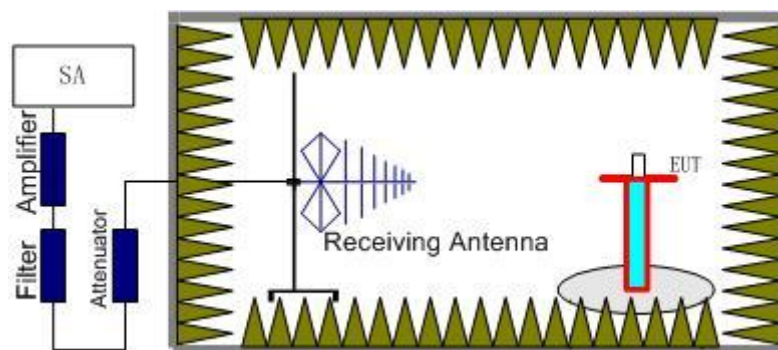
Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

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

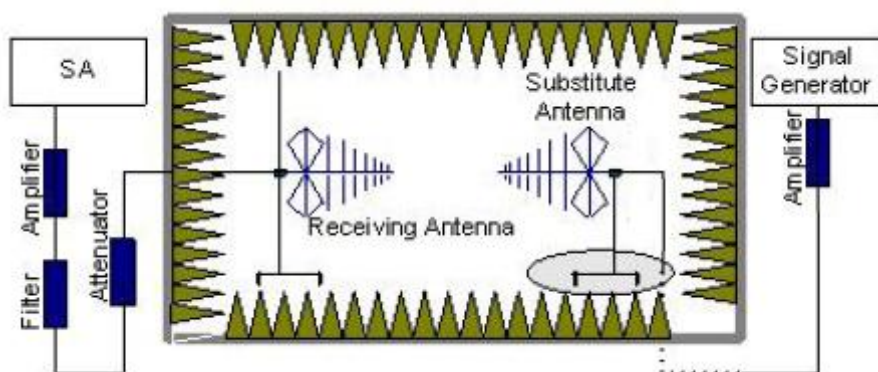
A.1.3.2 Method of Measurement

The measurements procedures in TIA-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 (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. 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

QPSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Polarization
1852.4	-12.90	-29.40	6.86	23.36	33.00	V
1880	-14.27	-29.30	6.85	21.88	33.00	V
1907.6	-13.76	-29.30	6.84	22.38	33.00	V

Frequency: 1852.40MHz

Peak EIRP(dBm)= P_{Mea}(-12.90dBm)- (P_{cl}+P_{Ag}) (-29.40dB)-G_a (-6.86dB) =23.36dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band V-ERP

Limits

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

Measurement result

QPSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.4	-13.98	-33.60	7.83	2.15	25.30	38.45	V
836.6	-13.62	-33.50	7.88	2.15	25.61	38.45	V
846.6	-12.69	-33.50	7.64	2.15	26.30	38.45	V

Frequency: 846.60MHz

Peak ERP(dBm)= P_{Mea}(-12.69dBm)- (P_{cl}+P_{Ag}) (-33.50dB)-G_a (-7.64dB)-2.15dB=26.30dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

WCDMA Band IV-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band IV	≤30.00dBm

Measurement result

QPSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)+ P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Polarization
1712.4	-13.02	-29.40	6.89	23.27	30.00	V
1740	-14.40	-29.30	6.88	21.78	30.00	V
1752.6	-13.92	-29.30	6.87	22.25	30.00	V

Frequency: 1712.40MHz

Peak EIRP(dBm)= P_{Mea}(-13.02dBm)- (P_{cl}+P_{Ag}) (-29.40dB)-G_a (-6.89dB)=23.27dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2 EMISSION LIMIT

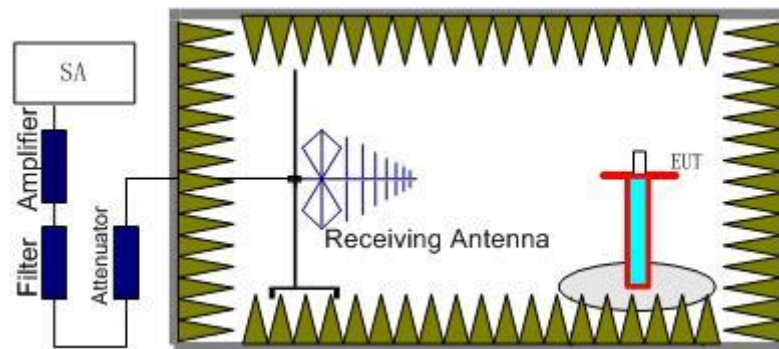
A.2.1 Measurement Method

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

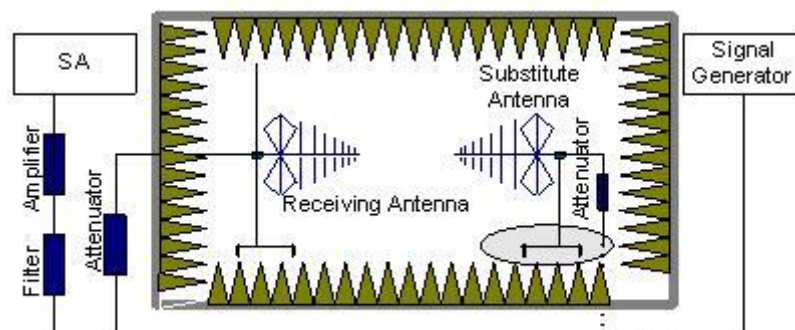
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917 and Part 27.50. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band V and WCDMA Band IV.

The procedure of radiated spurious emissions is as follows:

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



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (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 , Part 22.917 and Part 27.50 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz), WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz) and WCDMA Band IV (1712.4MHz, 1740.0MHz and 1752.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II,WCDMA Band V and WCDMA Band IV into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.2.4 Measurement Results Table

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

A.2.5 Sweep Table

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

WCDMA BAND II Mode Channel 9262/1852.4MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16798.40625	-48.19	13.52	-37.57	-13.00	H
16955.25	-48.13	13.52	-37.51	-13.00	H
17366.71875	-48.02	13.72	-37.20	-13.00	H
17540.625	-48.44	14.23	-37.21	-13.00	H
17801.15625	-48.32	14.60	-36.72	-13.00	V
17920.59375	-47.63	14.60	-36.23	-13.00	H

WCDMA BAND II Mode Channel 9400/1880MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16841.71875	-46.80	13.52	-36.18	-13.00	V
17269.59375	-46.46	13.60	-35.76	-13.00	H
17413.3125	-47.00	13.98	-36.02	-13.00	H
17608.875	-47.34	14.58	-35.76	-13.00	H
17804.4375	-47.49	14.60	-35.89	-13.00	H
17930.4375	-46.63	14.60	-35.23	-13.00	H

WCDMA BAND II Mode Channel 9538/1907.6MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16798.40625	-48.88	13.52	-38.26	-13.00	H
17200.6875	-48.26	13.60	-37.56	-13.00	H
17310.28125	-48.53	13.72	-37.71	-13.00	H
17440.875	-48.30	13.98	-37.32	-13.00	H
17619.375	-48.99	14.58	-37.41	-13.00	H
17769.65625	-48.91	14.60	-37.31	-13.00	H

WCDMA BAND V Mode Channel 4132/826.4MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
7068	-55.08	1.80	11.41	-47.62	-13.00	V
8213	-56.12	1.90	12.17	-48.00	-13.00	H
8645.5	-56.62	1.90	12.71	-47.96	-13.00	V
9166	-56.69	2.00	12.89	-47.95	-13.00	V
9360	-56.67	2.10	12.92	-48.00	-13.00	V
9895	-56.23	2.20	13.11	-47.47	-13.00	V

WCDMA BAND V Mode Channel 4183/836.6MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
8099.5	-55.92	1.90	12.17	-47.80	-13.00	H
8587	-55.96	1.90	12.7	-47.31	-13.00	H
9148	-56.22	2.00	12.89	-47.48	-13.00	V
9251.5	-56.34	2.00	12.89	-47.60	-13.00	V
9319	-55.94	2.10	12.92	-47.27	-13.00	V
9889.5	-56.41	2.20	13.11	-47.65	-13.00	V

WCDMA BAND V Mode Channel 4233/846.6MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Polarization
8547.5	-56.82	1.90	12.7	-48.17	-13.00	H
8586.5	-56.43	1.90	12.7	-47.78	-13.00	V
8724	-56.36	1.90	12.72	-47.69	-13.00	V
9143.5	-56.91	2.00	12.89	-48.17	-13.00	V
9437.5	-56.77	2.10	12.94	-48.08	-13.00	V
9976	-56.90	2.20	13.11	-48.14	-13.00	H

WCDMA BAND IV Mode Channel 1312/1712.4MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16806.28125	-48.20	13.52	-37.58	-13.00	V
17355.5625	-48.51	13.72	-37.69	-13.00	H
17426.4375	-48.22	13.98	-37.24	-13.00	H
17612.8125	-48.94	14.58	-37.36	-13.00	H
17833.96875	-48.94	14.60	-37.34	-13.00	H
17866.125	-48.61	14.60	-37.01	-13.00	H

WCDMA BAND IV Mode Channel 1450/1740.0MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
17196.09375	-48.67	13.52	-38.05	-13.00	H
17261.71875	-48.76	13.60	-38.06	-13.00	H
17438.25	-48.62	13.98	-37.64	-13.00	H
17598.375	-49.34	14.23	-38.11	-13.00	H
17772.9375	-48.91	14.60	-37.31	-13.00	H
17925.1875	-48.58	14.60	-37.18	-13.00	H

WCDMA BAND IV Mode Channel 1513/1752.6MHz (QPSK)

Frequency(MHz)	P _{Mea} (dBm)	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Polarization
16810.21875	-48.62	13.52	-38.00	-13.00	V
17202.65625	-48.52	13.60	-37.82	-13.00	H
17270.90625	-49.04	13.60	-38.34	-13.00	H
17444.8125	-48.89	13.98	-37.91	-13.00	H
17619.375	-49.91	14.58	-38.33	-13.00	H
17777.53125	-47.69	14.60	-36.09	-13.00	H

A.3 FREQUENCY STABILITY

A.3.1 Method of Measurement

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

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

A.3.2 Measurement Limit

A.3.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.4VDC and 4.32VDC, 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.3.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the

nominal value for other than hand carried battery equipment.

A.3.3 Measurement results

WCDMA Band II

Frequency Error vs Voltage-QPSK

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.7	-15	0.018
4.0	-1	0.001
4.4	-4	0.005

Frequency Error vs Temperature-QPSK

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-22	0.026
-20	-38	0.045
-10	-7	0.008
0	-11	0.013
10	-3	0.004
20	-6	0.007
30	-19	0.023
40	-28	0.033
50	-13	0.016

WCDMA Band V

Frequency Error vs Voltage-QPSK

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.7	-9	0.005
4.0	-3	0.002
4.4	-15	0.008

Frequency Error vs Temperature-QPSK

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-5	0.003
-20	-17	0.009
-10	-24	0.013
0	-33	0.018
10	-9	0.005
20	-6	0.003
30	-22	0.012
40	-8	0.004
50	-16	0.009



WCDMA Band IV

Frequency Error vs Voltage-QPSK

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.7	19	0.011
4.0	3	0.002
4.4	6	0.003

Frequency Error vs Temperature-QPSK

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	25	0.014
-20	11	0.006
-10	6	0.003
0	8	0.005
10	17	0.010
20	5	0.003
30	7	0.004
40	19	0.011
50	24	0.014

A.4 OCCUPIED BANDWIDTH

Reference

FCC: CFR Part 2.1049(h)(i)

A.4.1 Occupied Bandwidth Results

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

The measurement method is from KDB 971168 4.2:

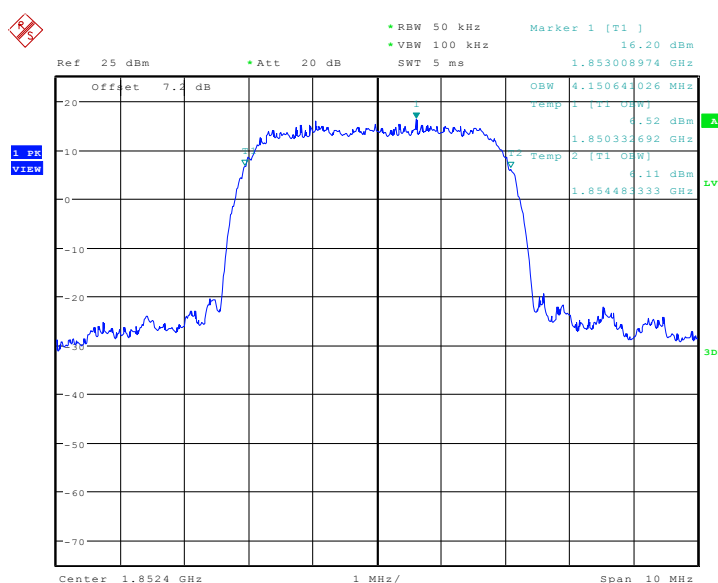
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- The nominal IF filter bandwidth (3 dB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

WCDMA Band II (99% BW)-QPSK

Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1852.4	4.15
1880.0	4.15
1907.6	4.15

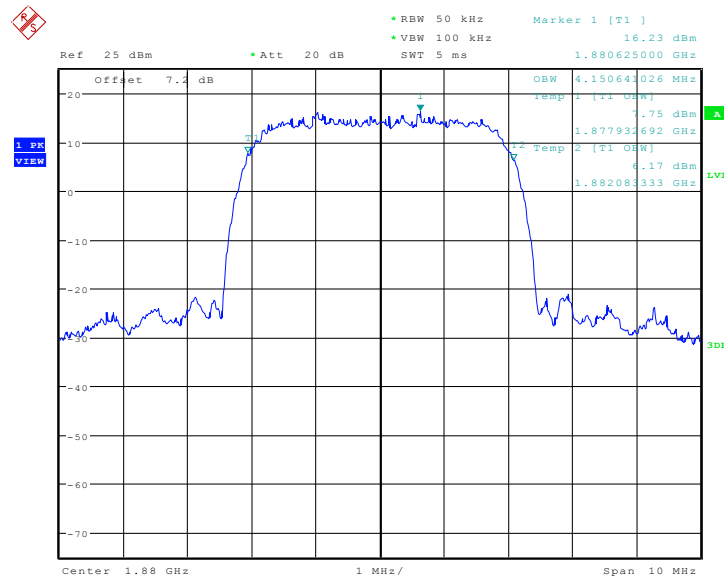
WCDMA Band II

Channel 9262-Occupied Bandwidth (99% BW)-QPSK



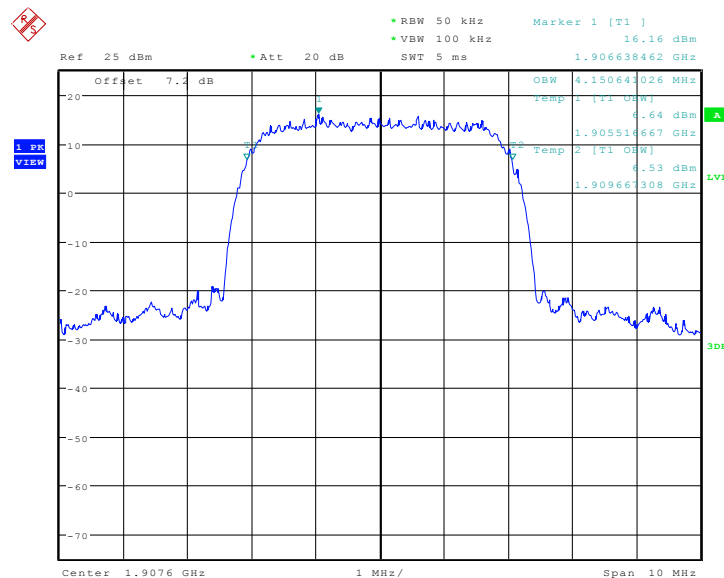
Date: 18.JAN.2017 11:08:36

Channel 9400-Occupied Bandwidth (99% BW)-QPSK



Date: 18..JAN.2017 11:06:19

Channel 9538-Occupied Bandwidth (99% BW)-QPSK



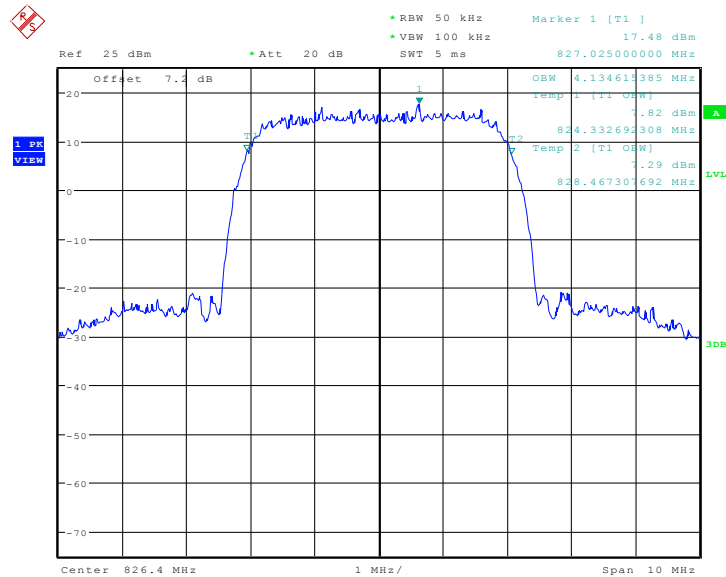
Date: 18..JAN.2017 11:05:21

WCDMA Band V(99% BW)-QPSK

Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
826.4	4.13
836.6	4.13
846.6	4.13

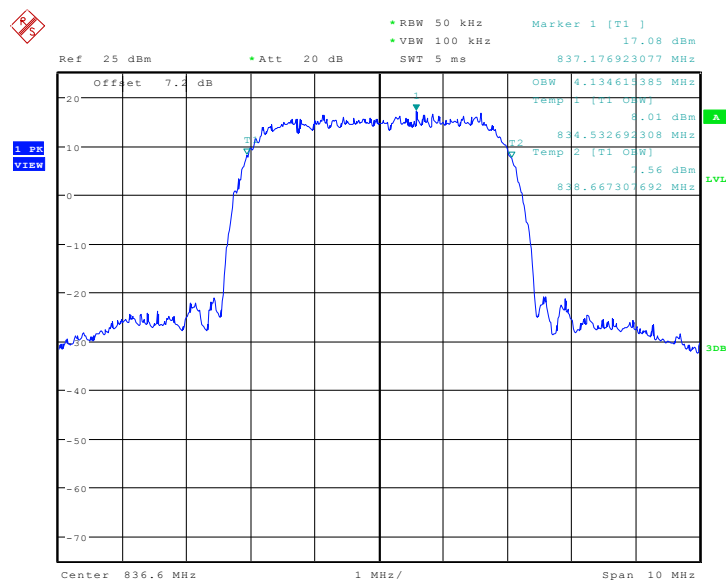
WCDMA Band V

Channel 4132-Occupied Bandwidth (99% BW)-QPSK



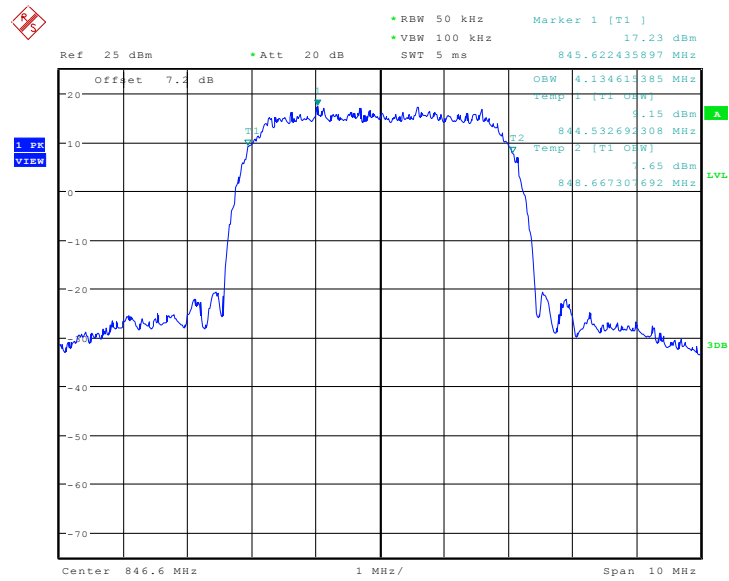
Date: 18.JAN.2017 10:06:25

Channel 4183-Occupied Bandwidth (99% BW)-QPSK



Date: 18.JAN.2017 10:09:09

Channel 4233-Occupied Bandwidth (99% BW)-QPSK



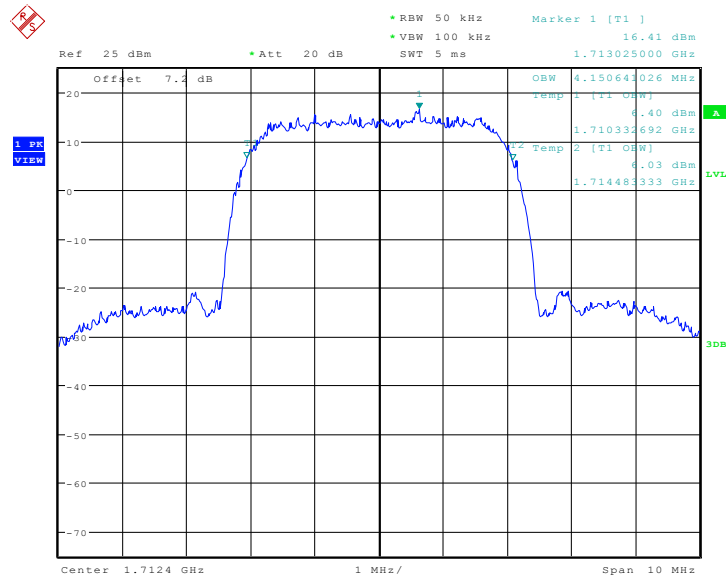
Date: 18..JAN.2017 10:09:57

WCDMA Band IV(99% BW)-QPSK

Frequency(MHz)	Occupied Bandwidth (99% BW)(MHz)
1712.4	4.15
1740.0	4.13
1752.6	4.15

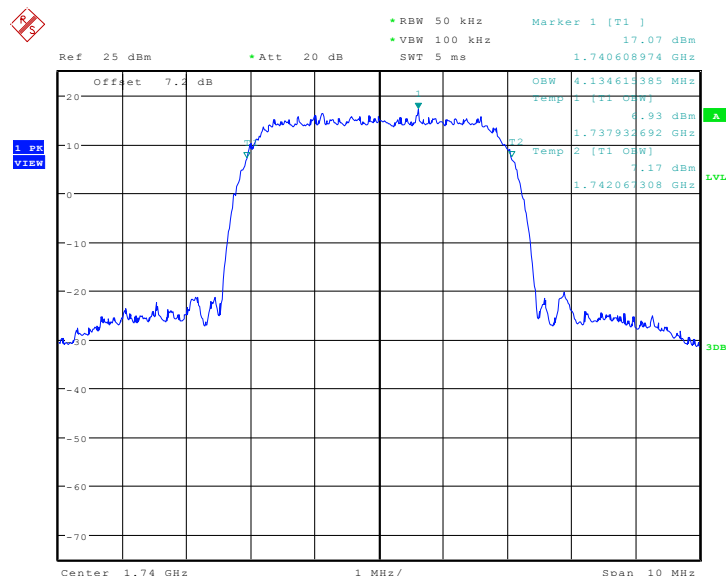
WCDMA Band IV

Channel 1312-Occupied Bandwidth (99% BW)-QPSK



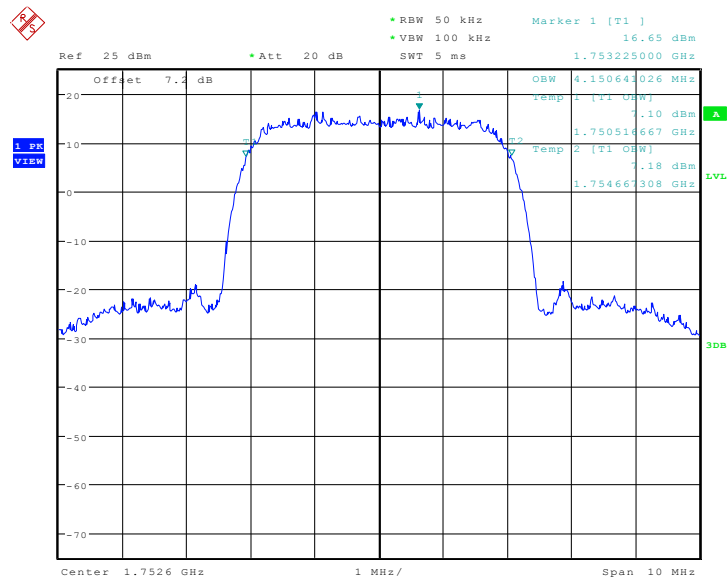
Date: 18..JAN..2017 10:50:14

Channel 1450-Occupied Bandwidth (99% BW)-QPSK



Date: 18..JAN..2017 10:49:33

Channel 1513-Occupied Bandwidth (99% BW)-QPSK



Date: 18.JAN.2017 10:46:46

A.5 EMISSION BANDWIDTH

Reference

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

A.5.1 Emission Bandwidth Results

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

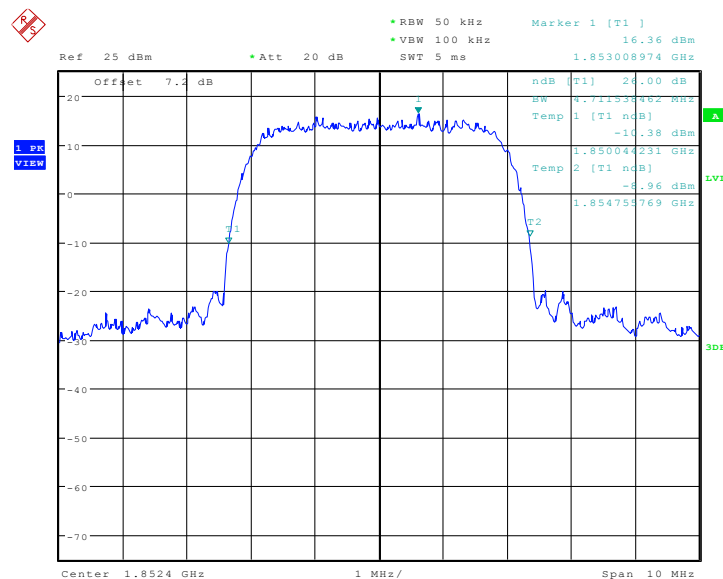
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies. Table below lists the measured -26 dB BW. Spectrum analyzer plots are included on the following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

WCDMA Band II (-26 dB BW)-QPSK

Frequency(MHz)	Emission Bandwidth (-26 dB BW)(MHz)
1852.4	4.71
1880.0	4.74
1907.6	4.71

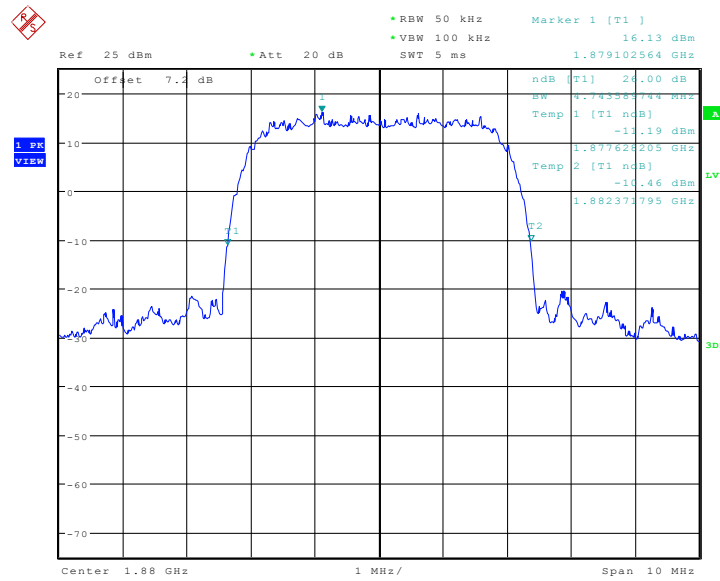
WCDMA Band II

Channel 9262-Emission Bandwidth (-26 dB BW)-QPSK



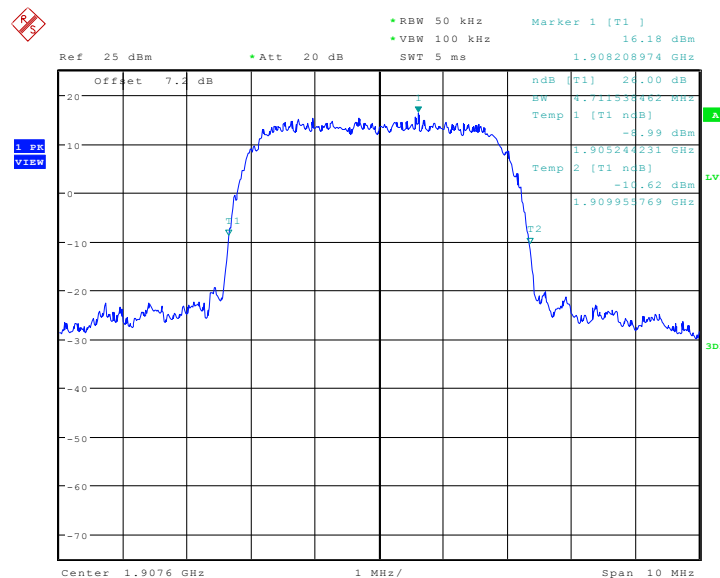
Date: 18.JAN.2017 11:07:47

Channel 9400-Emission Bandwidth (-26 dB BW)-QPSK



Date: 18..JAN.2017 11:06:59

Channel 9538-Emission Bandwidth (-26 dB BW)-QPSK



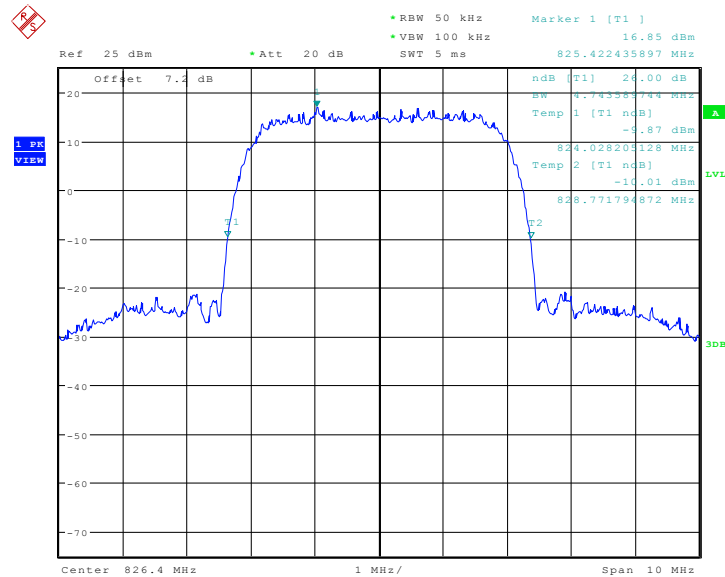
Date: 18..JAN.2017 11:03:57

WCDMA Band V(-26 dB BW)-QPSK

Frequency(MHz)	Emission Bandwidth (-26 dB BW)(MHz)
826.40	4.74
836.60	4.70
846.60	4.71

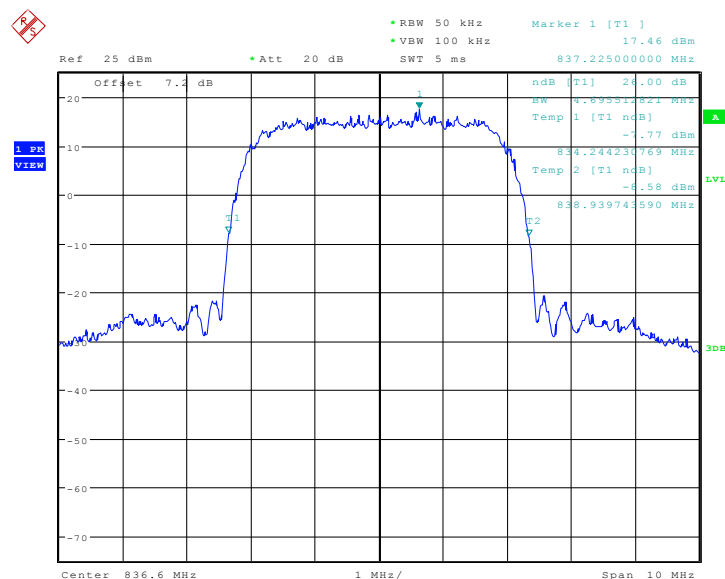
WCDMA Band V

Channel 4132-Emission Bandwidth (-26 dB BW)-QPSK



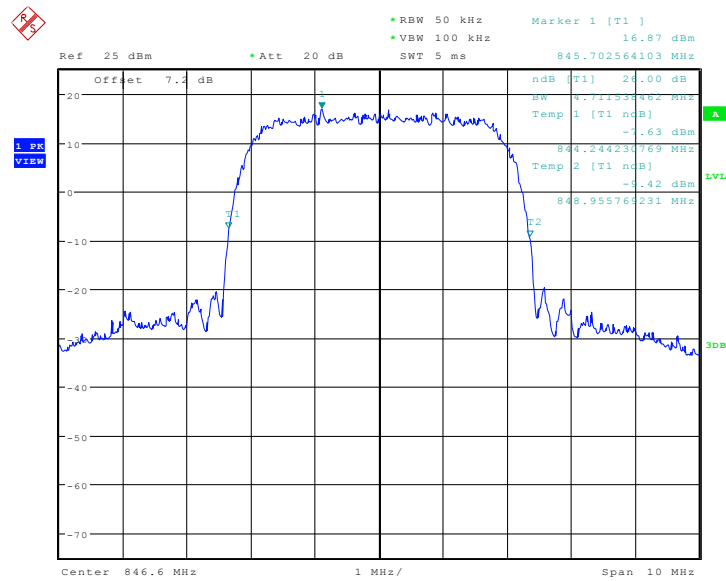
Date: 18.JAN.2017 10:07:02

Channel 4183-Emission Bandwidth (-26 dB BW)-QPSK



Date: 18.JAN.2017 10:08:12

Channel 4233-Emission Bandwidth (-26 dB BW)-QPSK



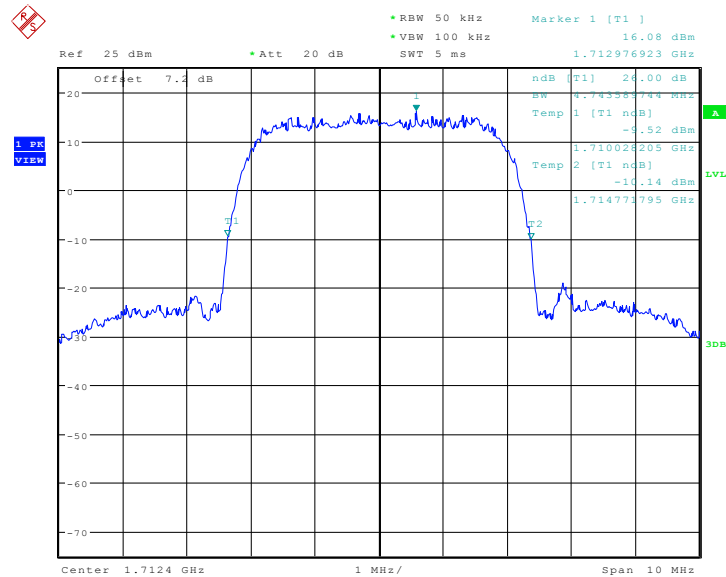
Date: 18.JAN.2017 10:10:28

WCDMA Band IV(-26 dB BW)-QPSK

Frequency(MHz)	Emission Bandwidth (-26 dB BW)(MHz)
1712.4	4.74
1740.0	4.73
1752.6	4.73

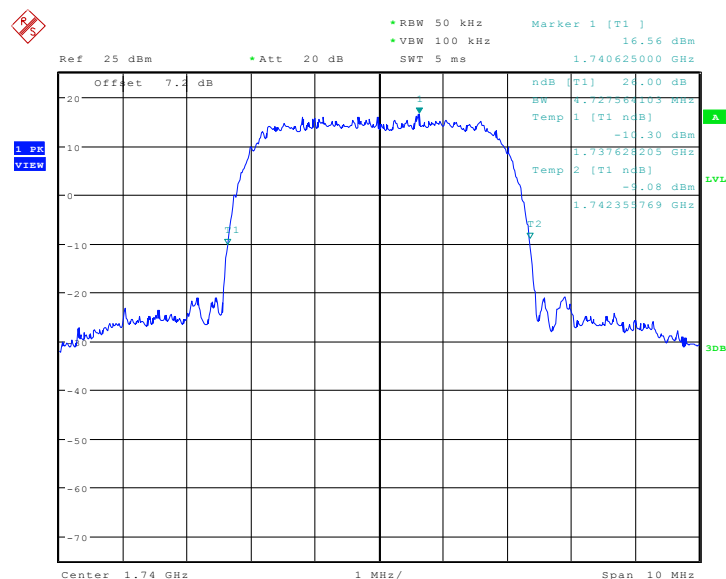
WCDMA Band IV

Channel 1312-Emission Bandwidth (-26 dB BW)-QPSK

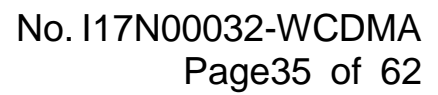


Date: 18.JAN.2017 10:50:48

Channel 1450-Emission Bandwidth (-26 dB BW)-QPSK



Date: 18.JAN.2017 10:48:15



Ref 25 dBm Att 20 dB SWT 5 ms

Marker 1 [T1] 16.75 dBm 1.753208974 GHz

Offset 7.2 dB

1 dB BW VIZW

20 dB [T1] 24.00 dB

SW 4.72756103 MHz

Temp 1 [T1 ndB] -6.82 dBm

Temp 2 [T1 ndB] -6.48 dBm

1.750228205 GHz

1.754955769 GHz

Center 1.7526 GHz 1 MHz/ Span 10 MHz

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A.6 BAND EDGE COMPLIANCE

Reference

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

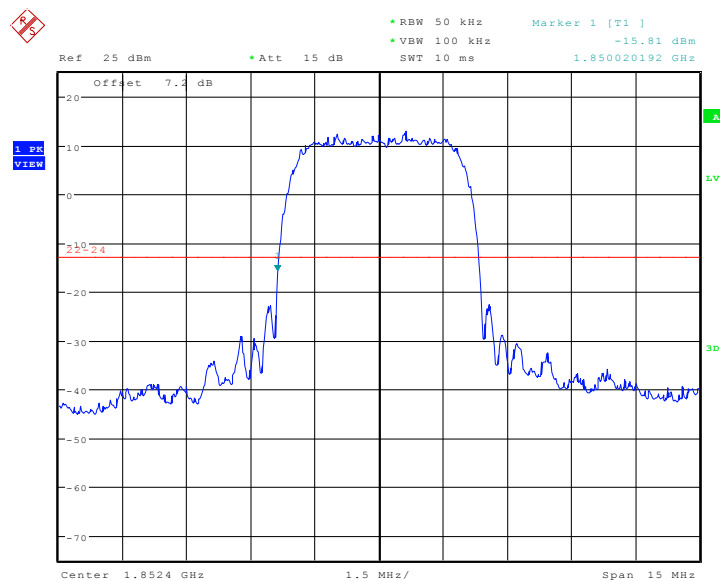
A.6.1 Measurement limit

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

A.6.2 Measurement result

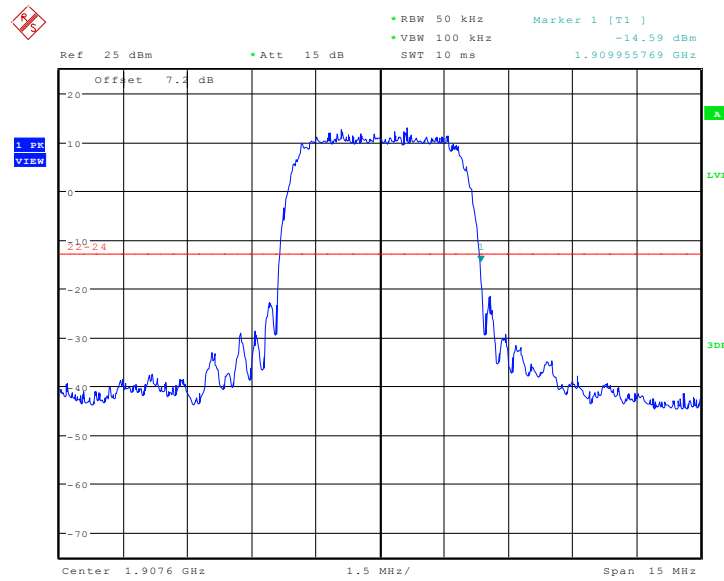
WCDMA Band II

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



Date: 18.JAN.2017 11:14:20

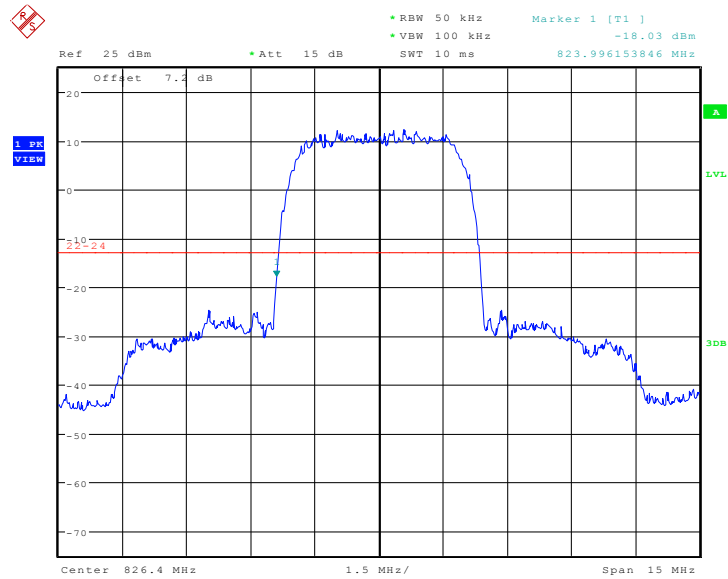
HIGH BAND EDGE BLOCK-C (WCDMA Band II) –Channel 9538-QPSK



Date: 18..JAN.2017 11:13:25

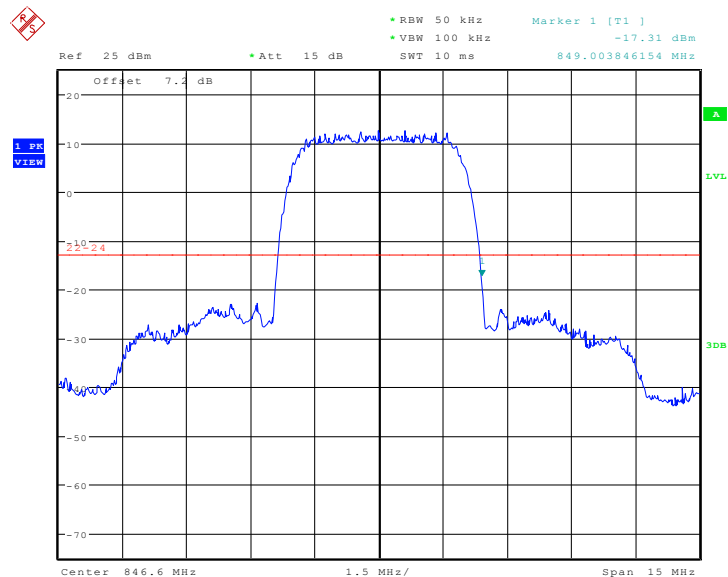
WCDMA Band V

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



Date: 18.JAN.2017 10:04:53

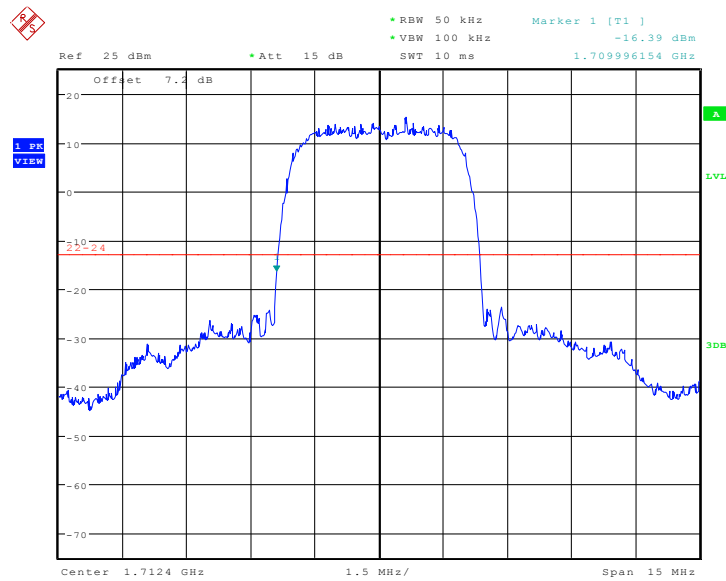
HIGH BAND EDGE BLOCK-C (WCDMA Band V) -Channel 4233-QPSK



Date: 18.JAN.2017 10:03:59

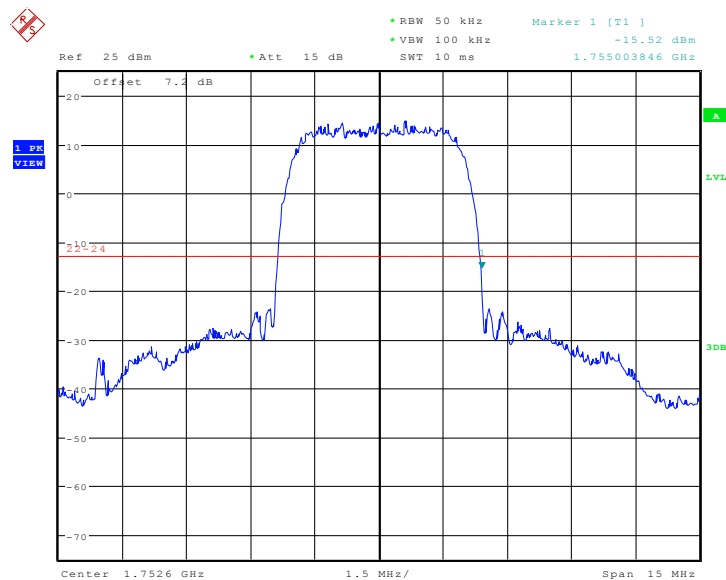
WCDMA Band IV

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



Date: 18.JAN.2017 10:44:36

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



Date: 18.JAN.2017 10:45:26

A.7 CONDUCTED SPURIOUS EMISSION

Reference

FCC: CFR Part 2.1057, 22.917, 24.238.

A.7.1 Measurement Method

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

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

WCDMA Band II Transmitter

Channel	Frequency (MHz)
9262	1852.40
9400	1880.00
9538	1907.60

WCDMA Band V Transmitter

Channel	Frequency (MHz)
4132	826.40
4183	836.60
4233	846.60

WCDMA Band IV Transmitter

Channel	Frequency (MHz)
1312	1712.4
1450	1740.0
1513	1752.6

A.7.2 Measurement Limit

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

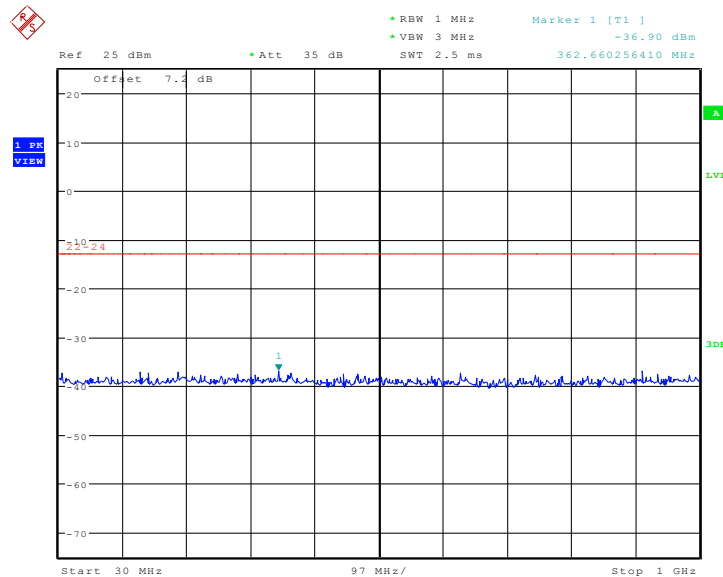
The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13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

A.7.3 Measurement result

WCDMA Band II

Channel 9262: 30MHz –1GHz

Spurious emission limit –13dBm.

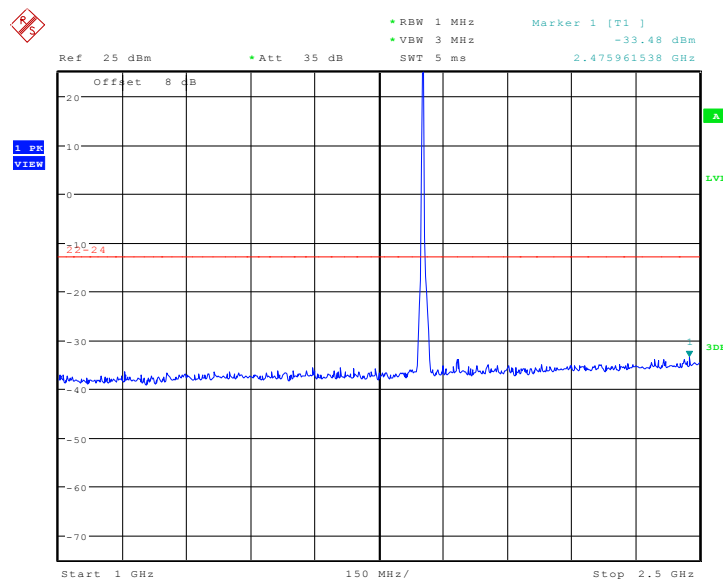


Date: 18..JAN.2017 11:15:24

Channel 9262: 1GHz –2.5GHz

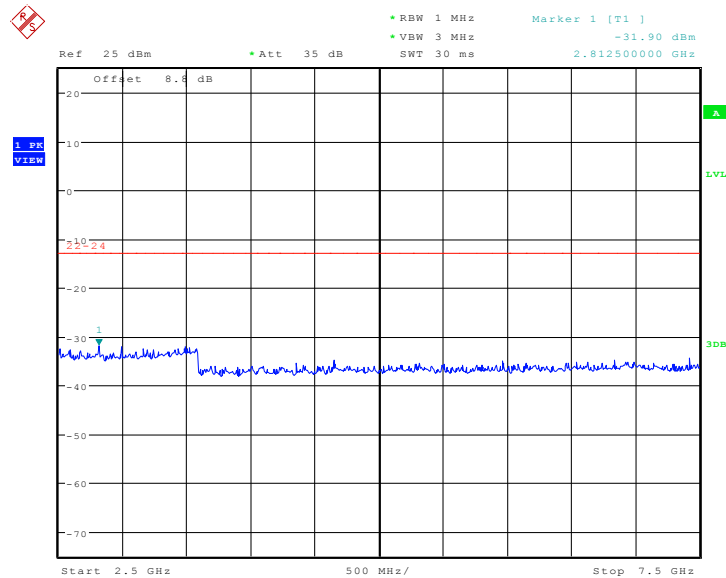
Spurious emission limit –13dBm.

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



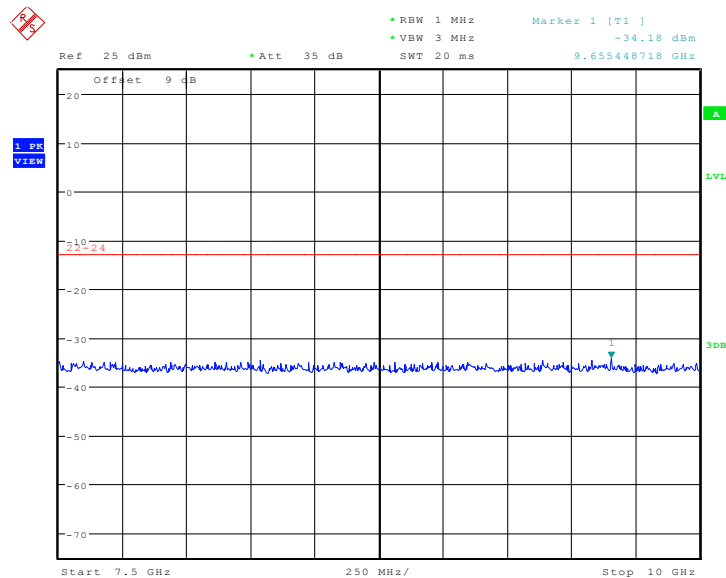
Date: 18..JAN.2017 11:22:13

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



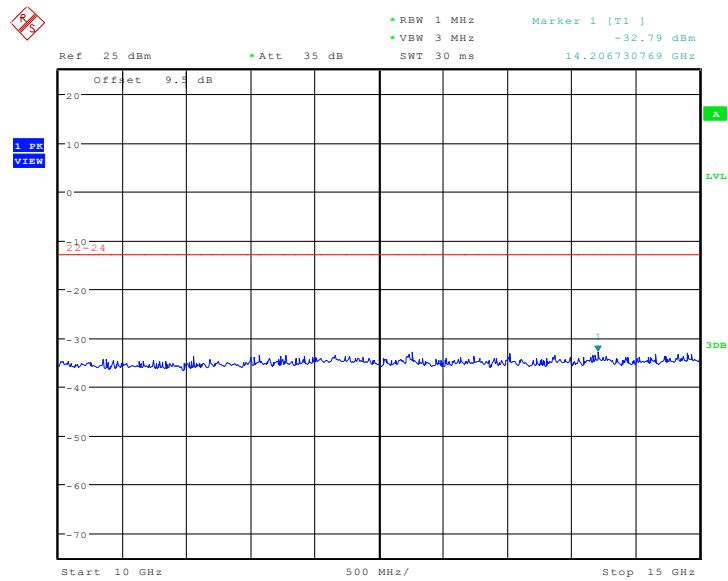
Date: 18.JAN.2017 11:23:08

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



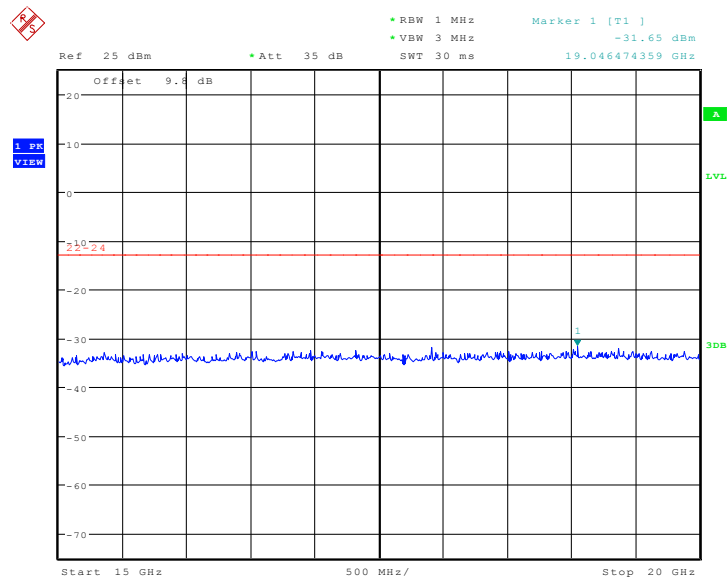
Date: 18.JAN.2017 11:26:23

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



Date: 18.JAN.2017 11:27:25

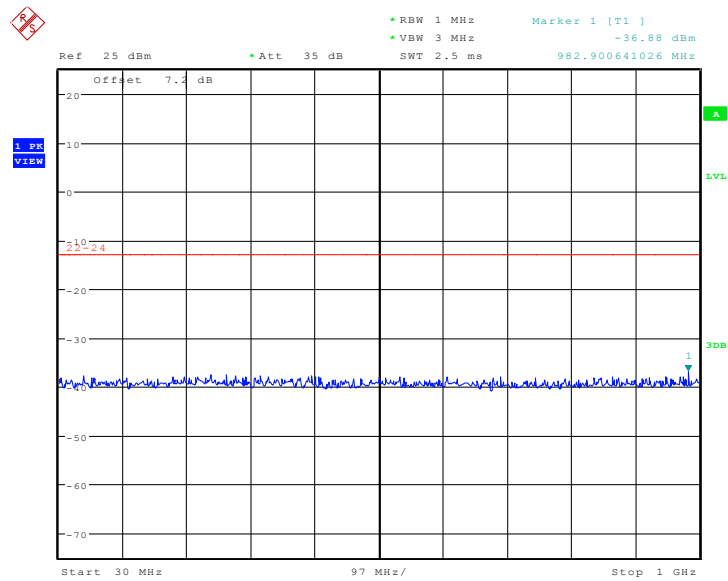
Channel 9262: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 11:30:36

Channel 9400: 30MHz –1GHz

Spurious emission limit –13dBm.

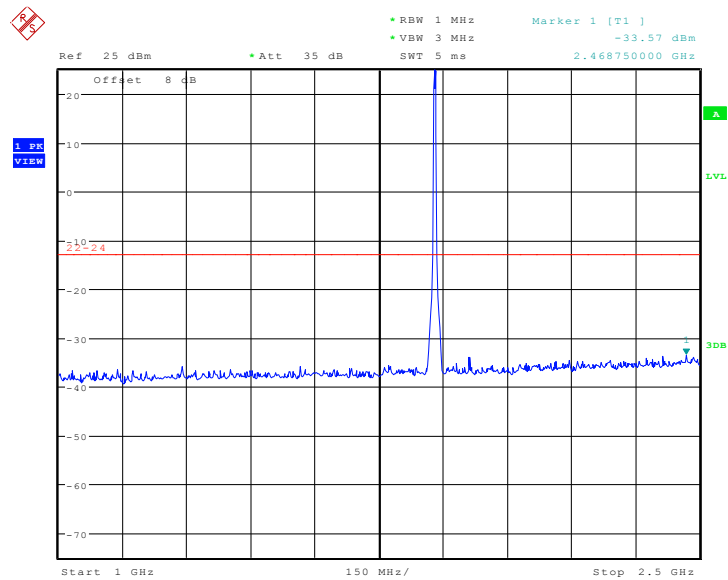


Date: 18.JAN.2017 11:15:51

Channel 9400: 1GHz –2.5GHz

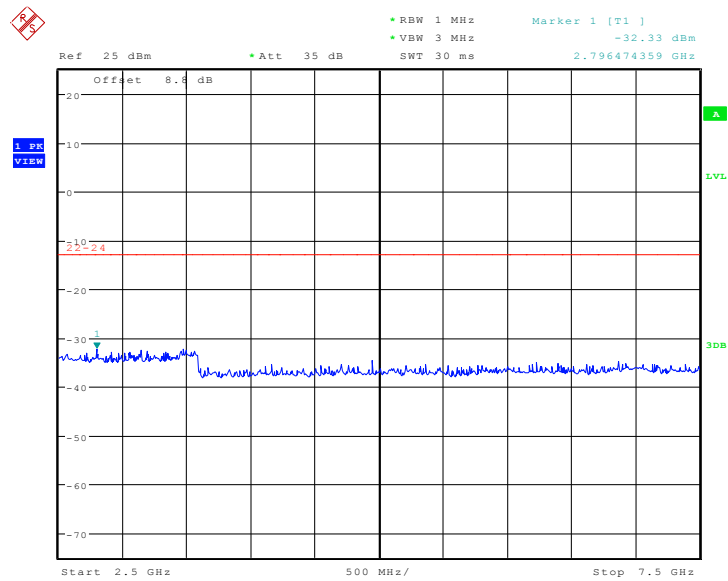
Spurious emission limit –13dBm.

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



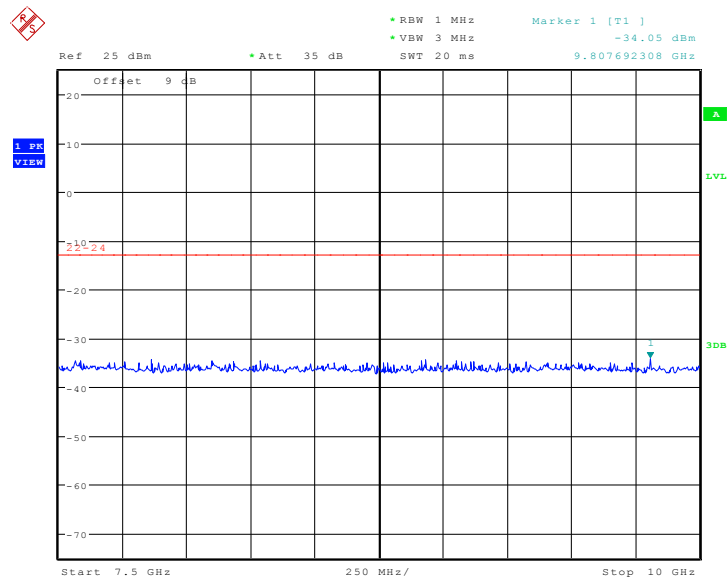
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Channel 9400: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



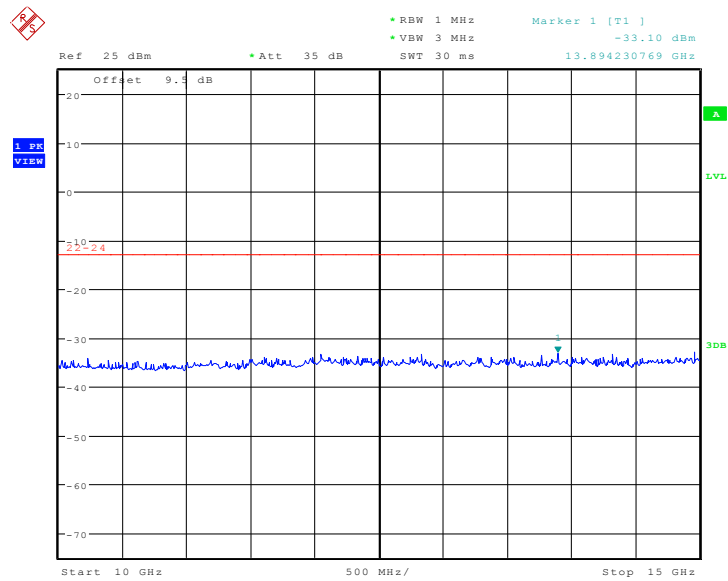
Date: 18.JAN.2017 11:23:44

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



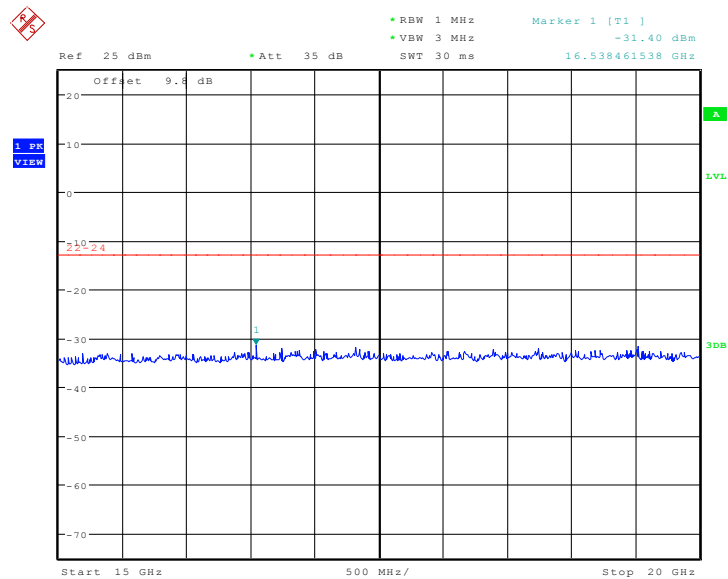
Date: 18.JAN.2017 11:25:50

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



Date: 18.JAN.2017 11:28:02

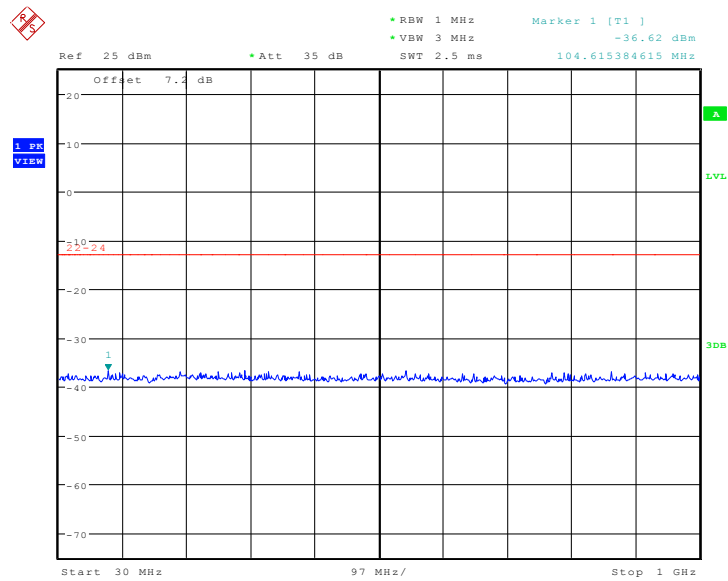
Channel 9400: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 11:30:03

Channel 9538: 30MHz –1GHz

Spurious emission limit –13dBm.

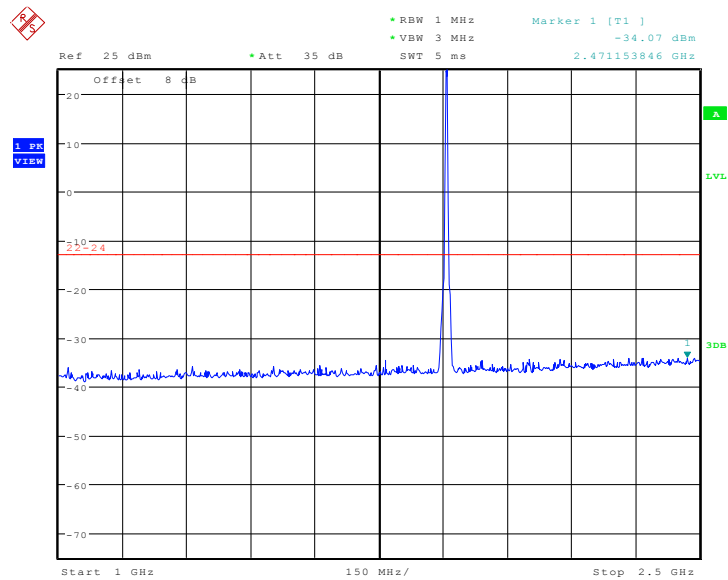


Date: 18.JAN.2017 11:18:21

Channel 9538: 1GHz –2.5GHz

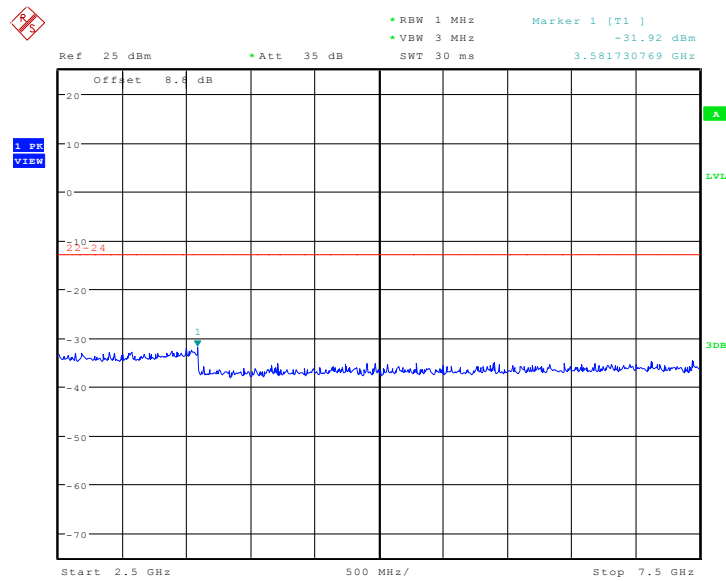
Spurious emission limit –13dBm.

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



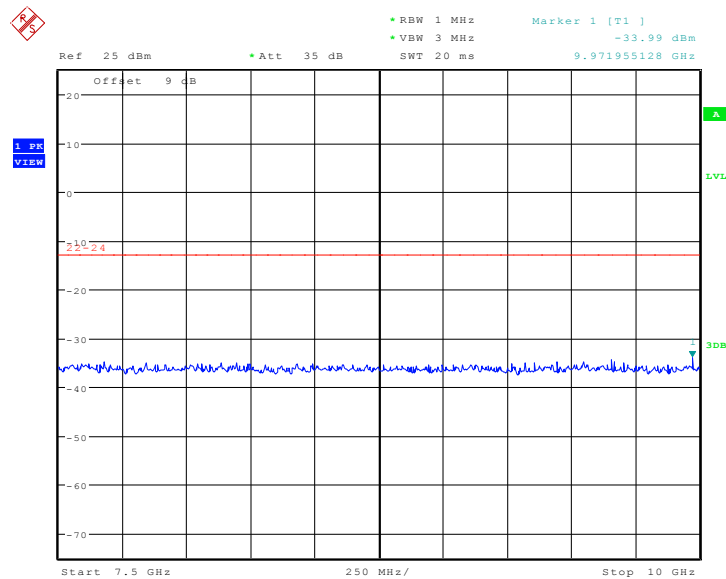
Date: 18.JAN.2017 11:19:54

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



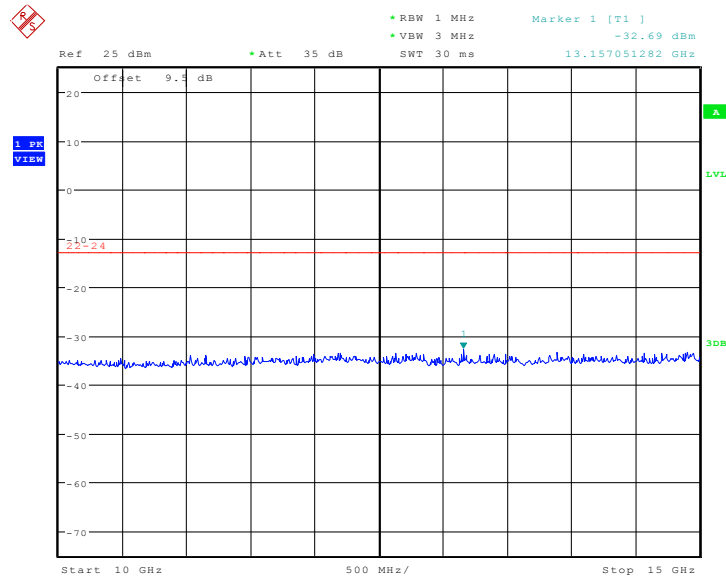
Date: 18.JAN.2017 11:24:31

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



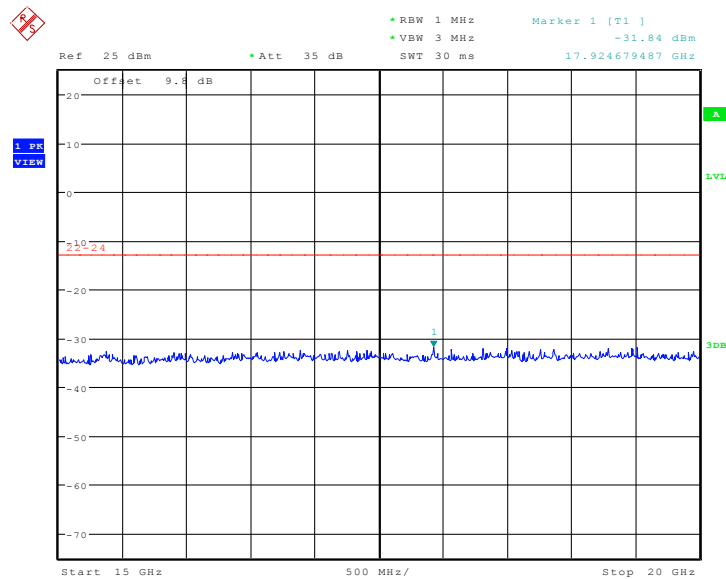
Date: 18.JAN.2017 11:25:15

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



Date: 18.JAN.2017 11:28:41

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



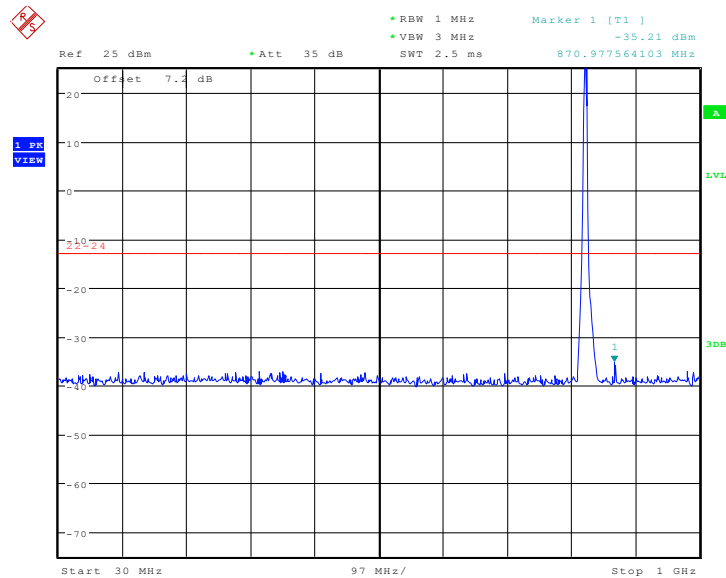
Date: 18.JAN.2017 11:29:27

WCDMA Band V

Channel 4132: 30MHz –1GHz

Spurious emission limit –13dBm.

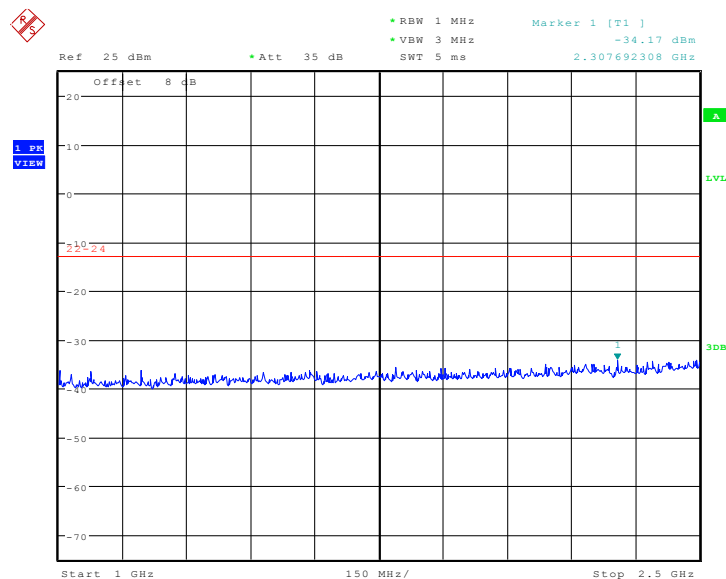
NOTE: peak above the limit line is the carrier frequency.



Date: 18.JAN.2017 10:22:55

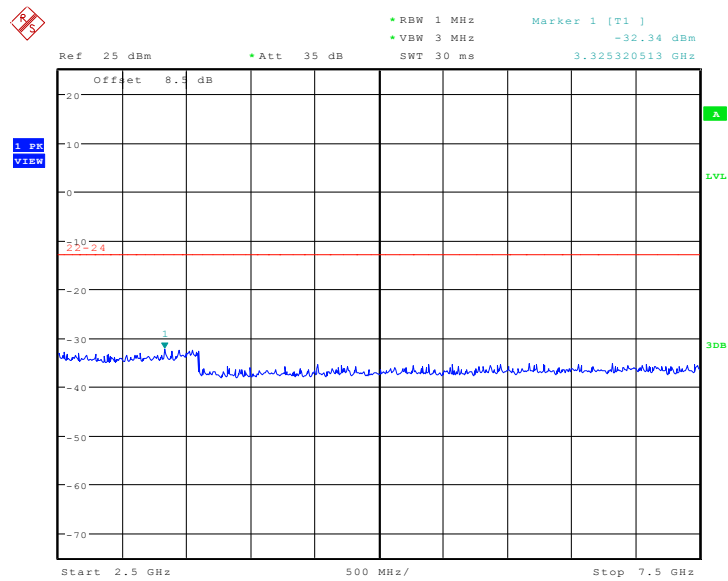
Channel 4132: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



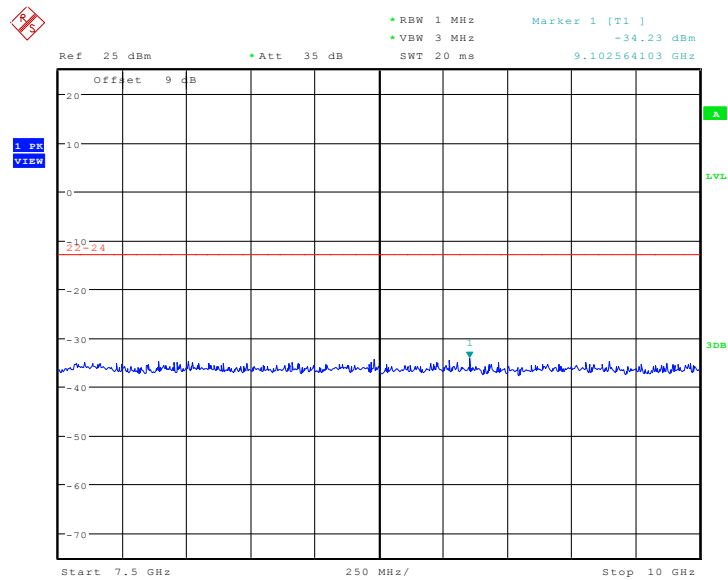
Date: 18.JAN.2017 10:22:07

Channel 4132: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:27:52

Channel 4132: 7.5GHz – 10GHz
Spurious emission limit –13dBm.

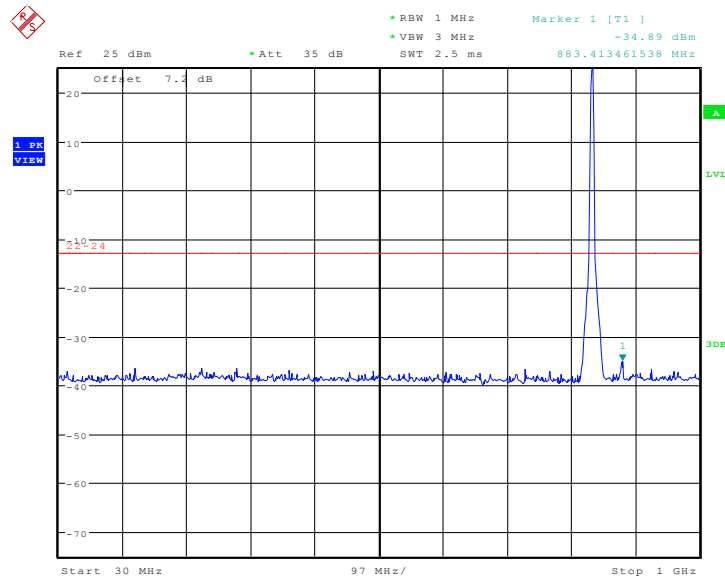


Date: 18.JAN.2017 10:28:31

Channel 4183: 30MHz –1GHz

Spurious emission limit –13dBm.

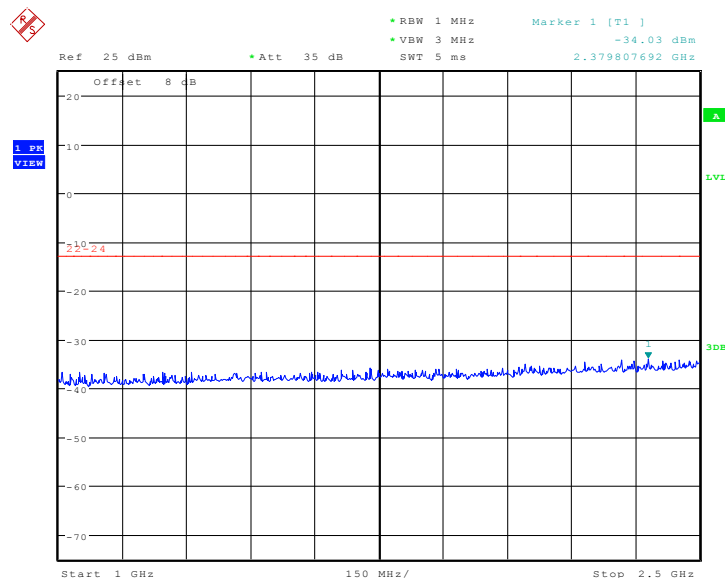
NOTE: peak above the limit line is the carrier frequency.



Date: 18.JAN.2017 10:24:26

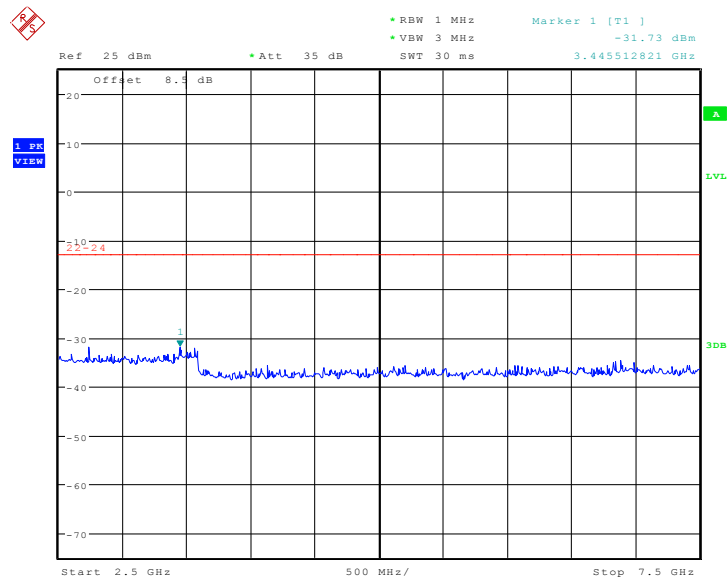
Channel 4183: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



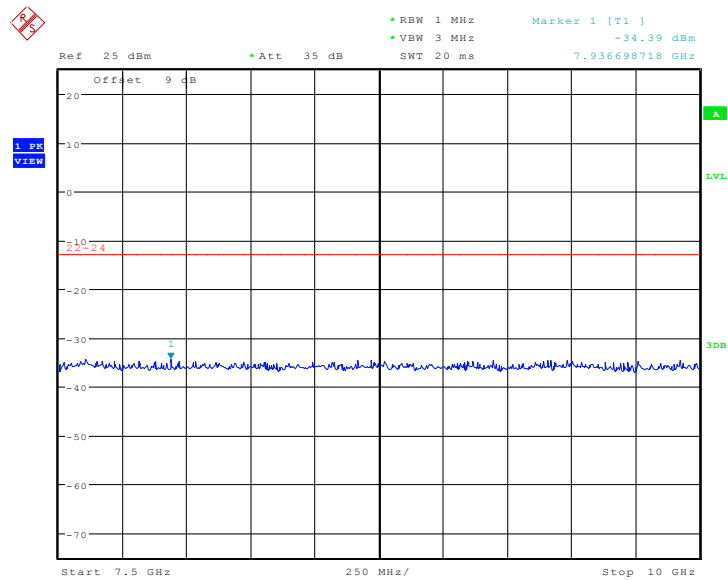
Date: 18.JAN.2017 10:21:42

Channel 4183: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:27:02

Channel 4183: 7.5GHz – 10GHz
Spurious emission limit –13dBm.

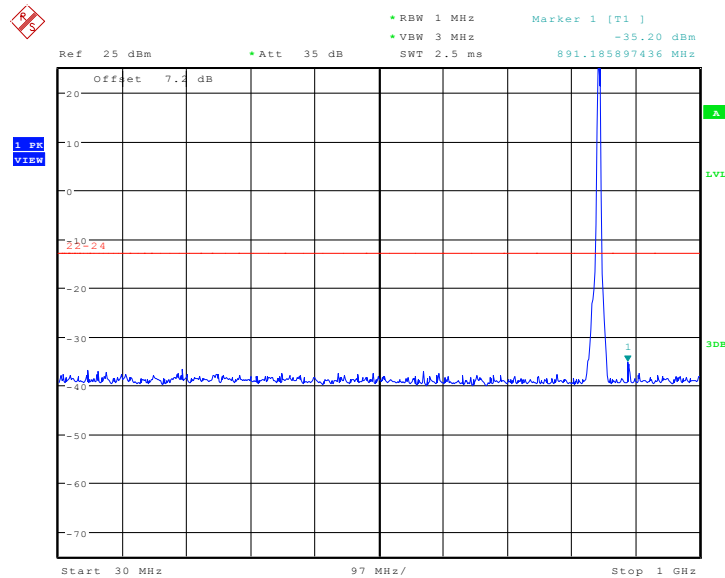


Date: 18.JAN.2017 10:29:24

Channel 4233: 30MHz –1GHz

Spurious emission limit –13dBm.

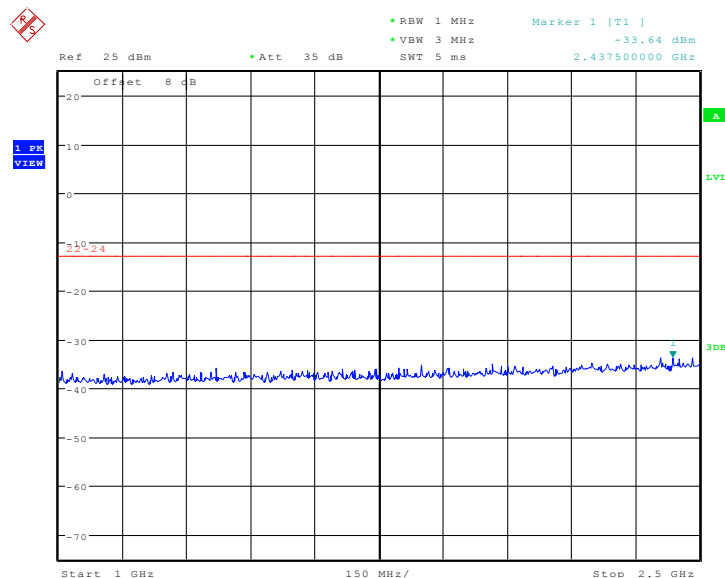
NOTE: peak above the limit line is the carrier frequency.



Date: 18.JAN.2017 10:25:13

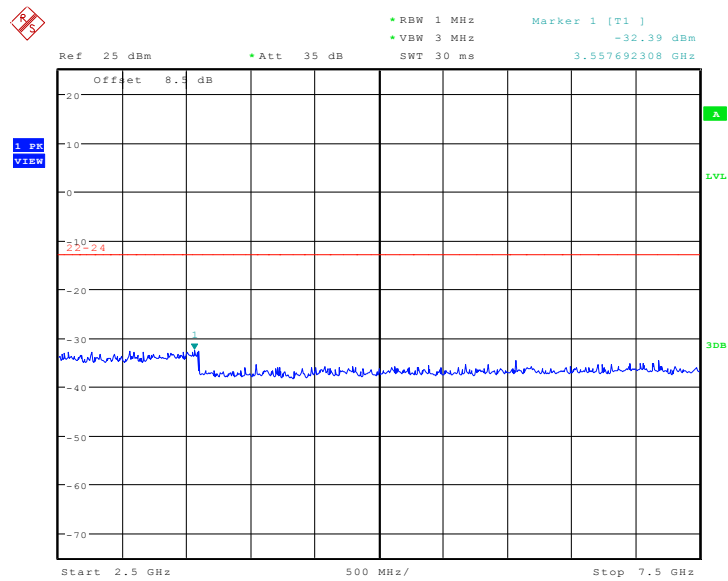
Channel 4233: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



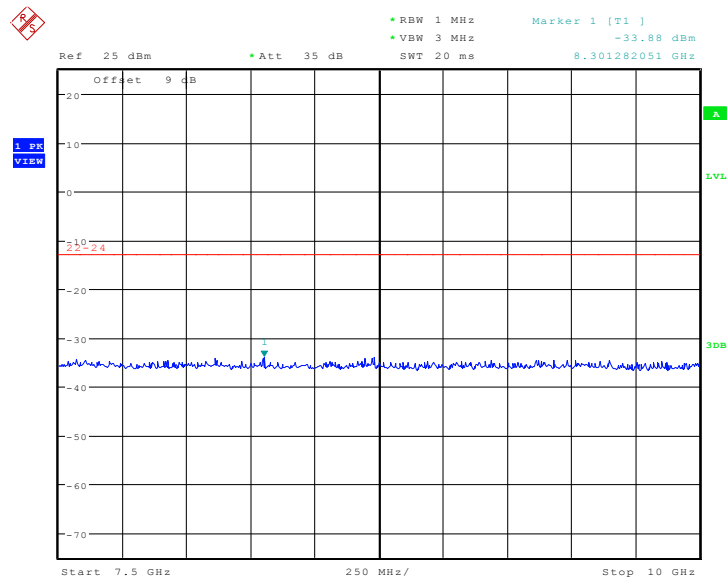
Date: 18.JAN.2017 10:21:11

Channel 4233: 2.5GHz –7.5GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:26:25

Channel 4233: 7.5GHz – 10GHz
Spurious emission limit –13dBm.



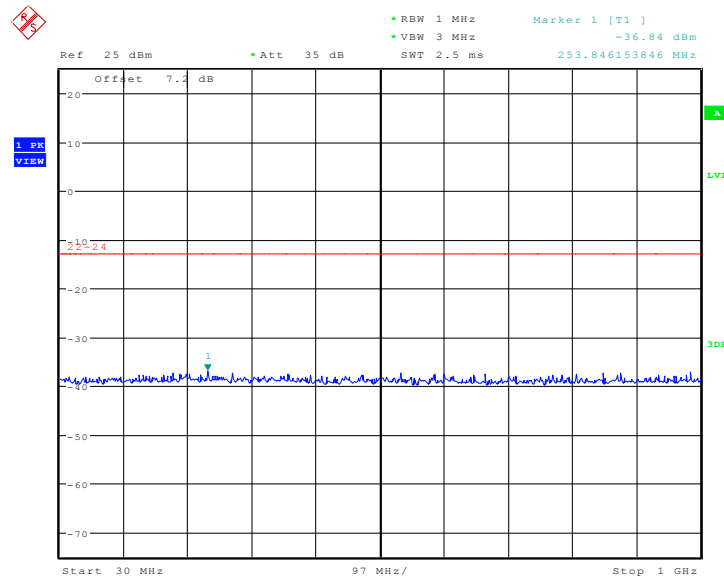
Date: 18.JAN.2017 10:30:37

WCDMA Band IV

Channel 1312: 30MHz –1GHz

Spurious emission limit –13dBm.

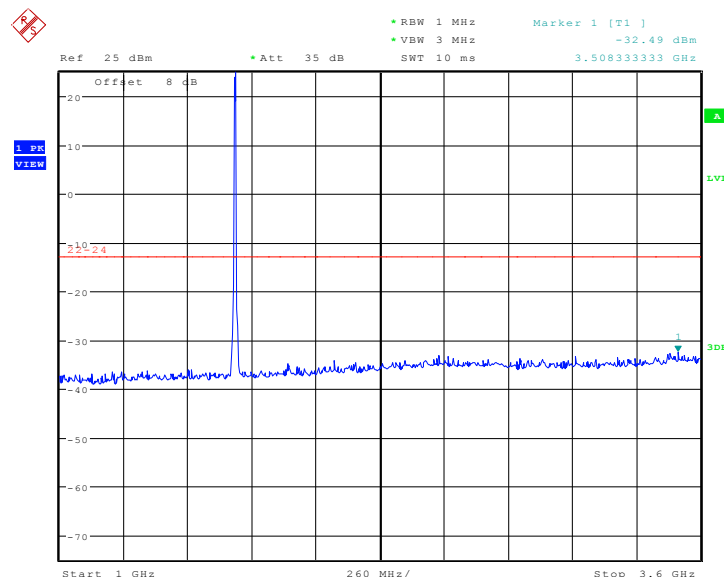
NOTE: peak above the limit line is the carrier frequency.



Date: 18..JAN..2017 10:34:48

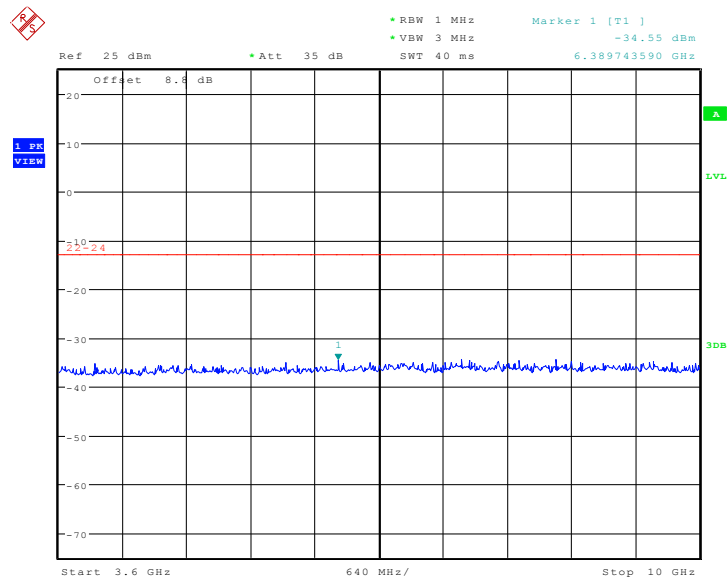
Channel 1312: 1GHz – 3.6GHz

Spurious emission limit –13dBm.



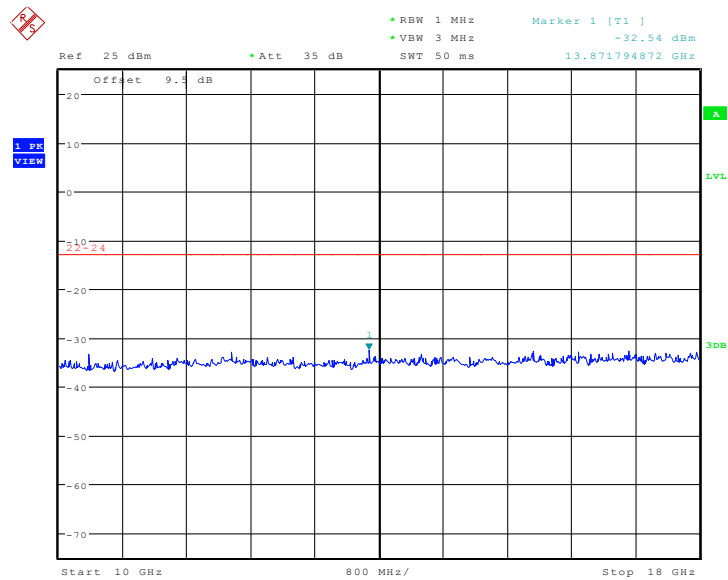
Date: 18..JAN..2017 10:38:55

Channel 1312: 3.6GHz –10GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:39:50

Channel 1312: 10GHz – 18GHz
Spurious emission limit –13dBm.

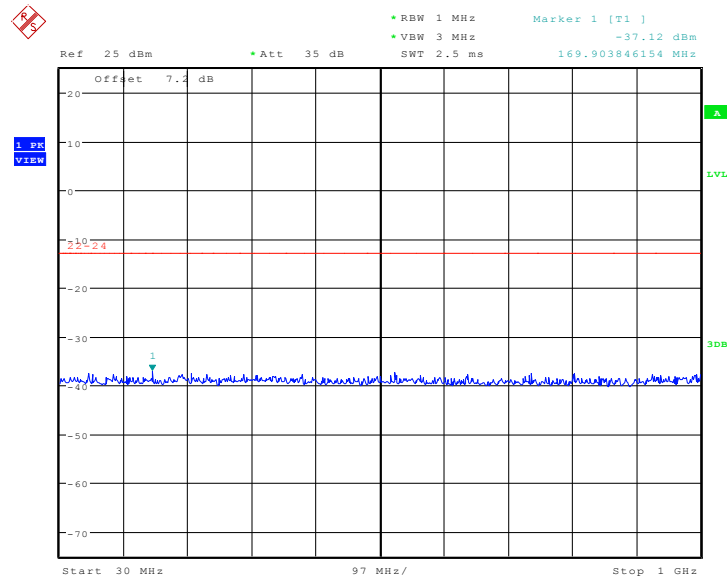


Date: 18.JAN.2017 10:42:59

Channel 1450: 30MHz –1GHz

Spurious emission limit –13dBm.

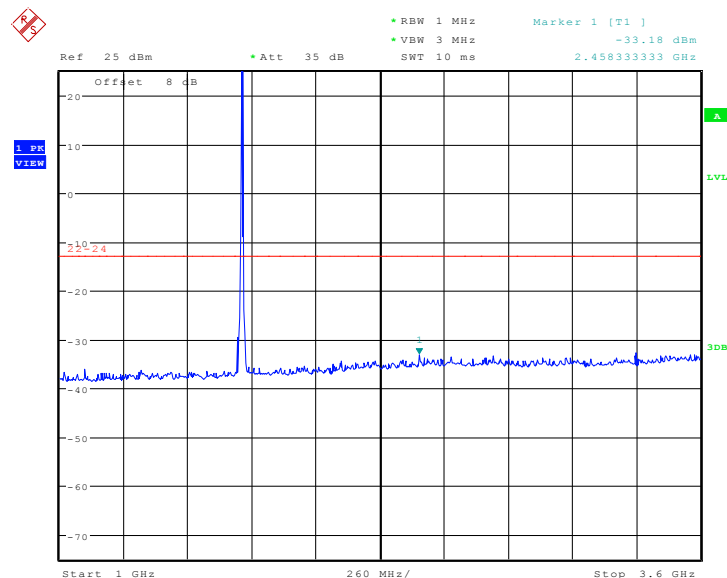
NOTE: peak above the limit line is the carrier frequency.



Date: 18.JAN.2017 10:35:26

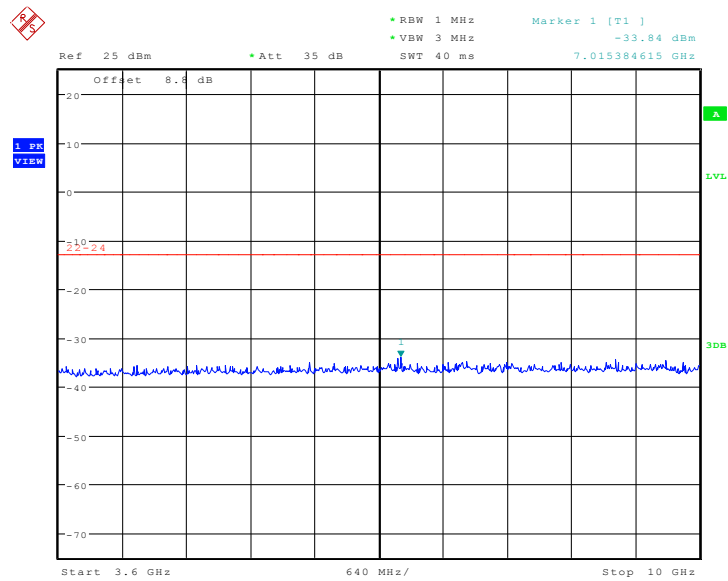
Channel 1450: 1GHz –3.6GHz

Spurious emission limit –13dBm.



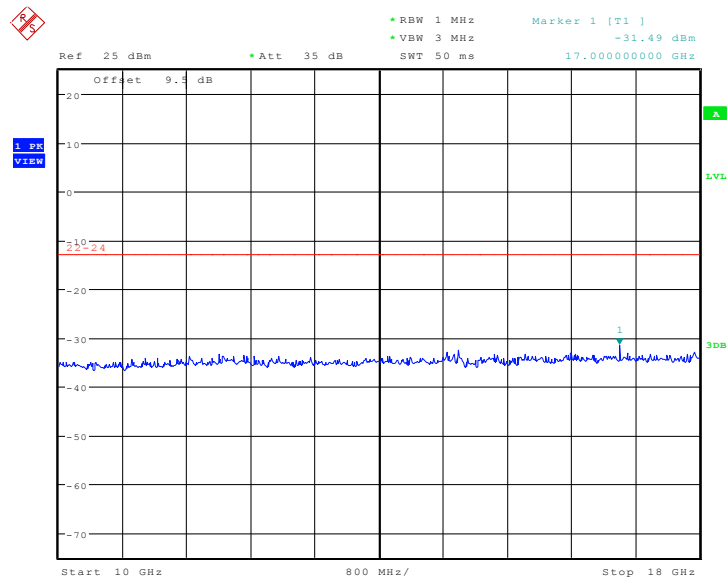
Date: 18.JAN.2017 10:38:09

Channel 1450: 3.6GHz –10GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:40:21

Channel 1450: 10GHz – 18GHz
Spurious emission limit –13dBm.

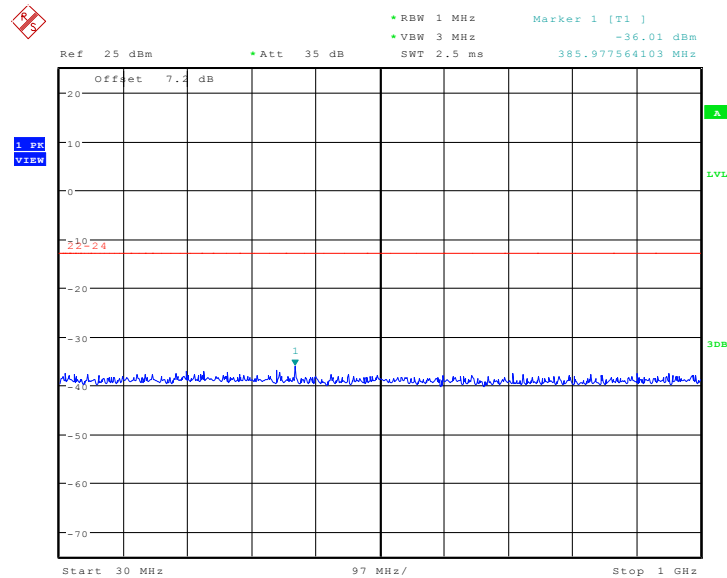


Date: 18.JAN.2017 10:42:30

Channel 1513: 30MHz –1GHz

Spurious emission limit –13dBm.

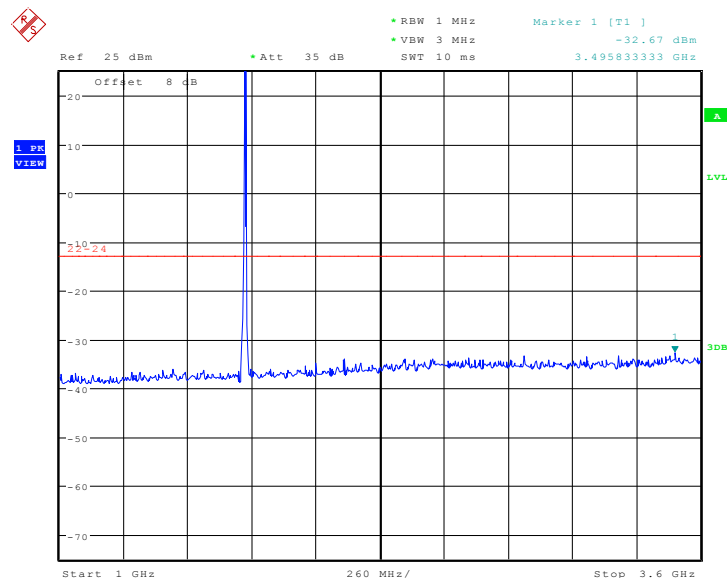
NOTE: peak above the limit line is the carrier frequency.



Date: 18.JAN.2017 10:36:10

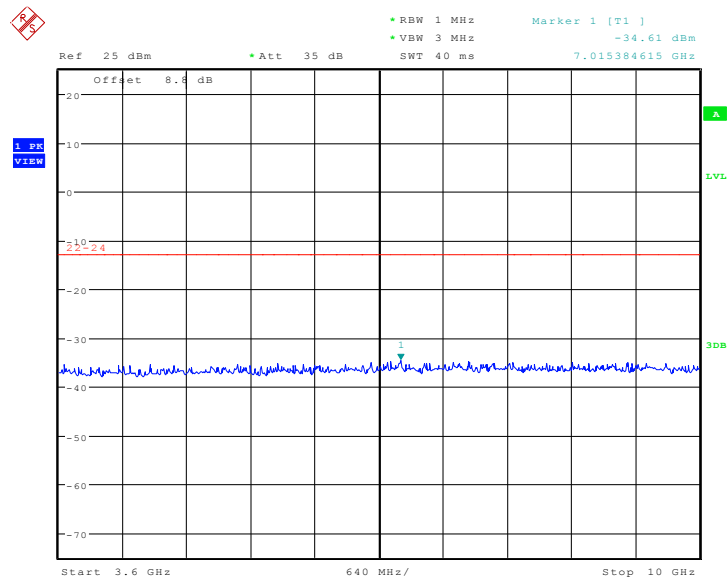
Channel 1513: 1GHz – 3.6GHz

Spurious emission limit –13dBm.



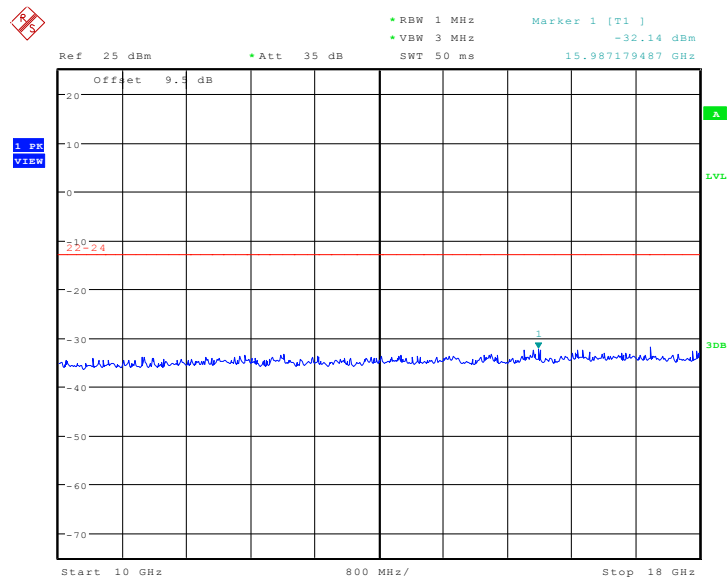
Date: 18.JAN.2017 10:37:02

Channel 1513: 3.6GHz –10GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:40:56

Channel 1513: 10GHz – 18GHz
Spurious emission limit –13dBm.



Date: 18.JAN.2017 10:41:50

A.8 PEAK-TO-AVERAGE POWER RATIO

Reference

FCC: CFR Part 24.232 (d) ,27.50(d)

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

According to KDB 971168 5.7.1:

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

A.8.1 Measurement limit

not exceed 13 dB

A.8.2 Measurement results

WCDMA Band II

Measurement result-QPSK

	CH	Frequency(MHz)	PAPR(dB)
WCDMA (Band II)	9400	1880.0	3.57

WCDMA Band V

Measurement result-QPSK

	CH	Frequency(MHz)	PAPR(dB)
WCDMA (Band V)	4183	836.6	3.45

WCDMA Band IV

Measurement result-QPSK

	CH	Frequency(MHz)	PAPR(dB)
WCDMA (Band IV)	1450	1740.0	3.67

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