

Report Reference ID:	283398-3TRFWL
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Test specification:	Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter A – General Part 24 – Personal Communication Services Subpart E – Broadband PCS
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Applicant:	TEKO Telecom Srl. Via Meucci, 24/a I-40024 Castel S. Pietro Terme (BO) (Italy)
Apparatus:	Remote Unit
Model:	TRU7S19AWEWE/AC-WS
FCC ID:	XM2-EP7S19AWE

Testing laboratory:	Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221
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	Name and title	Date
Tested by:	 G. Curioni, Wireless/EMC Specialist	2015-03-22
Reviewed by:	 P. Barbieri, Wireless/EMC Specialist	2015-03-22

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Section 1: Report summary

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Spa.

Test specification:
FCC Part 24 Subpart E, Broadband PCS

Compliance status:	Complies
Exclusions:	None
Non-compliances:	None
Report release history:	Original release
Test location:	Nemko Spa Via Del Carroccio, 4 – 20853 Biassono (MB) - Italy
Registration number:	481407 (10 m Semi anechoic chamber)

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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Section 2: Equipment under test

2.1 Identification of equipment under test (EUT)

The following information identifies the EUT under test:

Type of equipment:	Remote Unit
Product marketing name:	Teko Telecom Srl
Model number:	TRU7S19AWE/AC-WS
Serial number:	1000980001
Nemko sample number:	-----
FCC ID:	XM2-EP7S19AWE
Date of receipt:	2015-05-18



2.2 Accessories and support equipment

The following information identifies accessories used to exercise the EUT during testing:

No other FCC-ID equipment are used to exercise the EUT during testing

Item # 1

Type of equipment:	Master Unit - Subrack
Brand name:	Teko Telecom srl
Model name or number:	SUB-TRX-PSU
Serial number:	101083001
Nemko sample number:	-----
Connection port:	-----
Cable length and type:	-----

Item # 2

Type of equipment:	Master Unit – Management Module
Brand name:	Teko Telecom srl
Model name or number:	TSPV-R
Serial number:	081900043
Nemko sample number:	-----
Connection port:	LAN port
Cable length and type:	-----

Item # 3

Type of equipment:	Master Unit – Optical Module
Brand name:	Teko Telecom srl
Model name or number:	TTRU4W-S-M
Serial number:	110679007
Nemko sample number:	-----
Connection port:	DL/UL RF connector (to connect to the base station) Optical port (to connect to remote unit)
Cable length and type:	-----

Item # 4

Type of equipment:	Master Unit – Power Supply
Brand name:	Teko Telecom srl
Model name or number:	TPSU/AC
Serial number:	100012286
Nemko sample number:	-----
Connection port:	-----
Cable length and type:	-----



Section 2: Equipment under test, continued

2.3 EUT description

See confidential block diagram and operational description

2.4 Technical specifications of the EUT

Operating band:	Down Link 1930-1995 MHz; Up Link 1850-1915 MHz
Operating frequencies:	Wideband
Modulation type:	GSM, EDGE, CDMA, WCDMA, LTE (QAM and QPSK)
Occupied bandwidth:	GSM and EDGE: 200 kHz; CDMA: 1,25 MHz, WCDMA: 5 MHz LTE: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
Channel spacing:	Standard
Emission designator:	GSM and EDGE: GXW; CDMA, WCDMA: F9W, LTE: D7W
RF Output	Down Link: 31dBm (1,25W) Up Link: N.A. (The EUT does not transmit over the air in the up-link direction)
Gain	Down Link: 36dB Up Link: N.A. (The EUT does not transmit over the air in the up-link direction)
Antenna data:	No antenna provided
Antenna type:	No antenna provided External Antenna (Equipment that has an external 50 Ω RF connector)
Power source	100-240 Vac

Section 2: Equipment under test, continued**2.5 EUT setup diagram**

In this system, Remote Unit is the EUT. Master Unit includes only management module and optical module (to convert RF signal in optical signal in down link direction and viceversa optical signal in RF signal in up link direction). As described in "Operational description", master unit is connected directly to base station, so the system doesn't use another equipment (under another FCC ID) to exercise the EUT. Signal generator is linked directly to the RF connector of optical module in the Master Unit.

Test setup for output power, occupied bandwidth, spurious emissions:**Procedure**

Connect the signal modulated generator to the input of the EUT, so that the EUT works at the max gain. Raise the input level to the EUT until reach the maximum output power. Connect the spectrum analyzer to the RF output connector of the EUT.

2.6 Operation of the EUT during testing

In down-link direction, normal working at max gain with max RF power output

2.7 Modifications incorporated in the EUT

None

There were no modifications performed to the EUT during this assessment

Section 3: Test conditions

3.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

3.2 Test conditions, power source and ambient temperatures

Normal temperature, humidity and air pressure test conditions	Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.
Power supply range:	The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 3: Test conditions, continued

3.3 Measurement uncertainty

Nemko S.p.A. measurement uncertainty has been calculated using the standard CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modeling – Uncertainty in EMC measurements". All calculations can be found in Nemko S.p.A. document WML1002.

3.4 Test equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
Vector Signal Generator	Agilent	N5172B EXG	MY53050534	Feb 2017
Vector Signal Generator	Agilent	E4438C ESG	MY45094485	Ago 2016
Spectrum Analyzer	Agilent	N9030A PXA	MY53120882	May 2015
Network Analyzer	Agilent	E5071B ENA	MY46418709	Jan 2016
EMI Receiver	R & S	ESCI	100888	08/2015
V-network	R & S	ESH2-Z5	872 460/041	09/2015
Trilog Broad Band Antenna 25-2000 MHz	Schwarzbeck	VULB 9168	VULB 9168-242	06/2015
Trilog Broad Band Antenna 25-8000 MHz	Schwarzbeck	VULB 9162	VULB 9162-25	05/2015
Antenna 1-18 GHz	Schwarzbeck	STLP 9148	STPL 9148-123	06/2015
Double ridge waveguide horn	RFspin	DRH40	061106A40	08/2016
Preamplifier 18-40 GHz	Miteq	JS44	1648665	11/2015
Broadband preamplifier 1-18 GHz	Schwarzbeck	BBV 9718	9718-137	10/2015
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	04/2016
EMI receiver 20 Hz ÷ 3 GHz	R&S	ESCI	100888	08/2015
Hydraulic revolving platform	Nemko	RTPL 01	4.233	NCR
Turning-table	R&S	HCT	835 803/03	NCR
Antenna mast	R&S	HCM	836 529/05	NCR
Controller	R&S	HCC	836 620/7	NCR
Spectrum Analyzer 9kHz ÷ 40GHz	R&S	FSEK	848255/005	08/2015
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	09/2016
Shielded room	Siemens	10m control room	1947	NCR
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	70	NCR
Shielded Room	Siemens	3m semi-anechoic chamber	3	NCR
Motor controller	Emco	1051-25	9012-1559	NCR
Motor controller	Emco	1061-1.521	9012-1508	NCR
Antenna Tower	Emco	2071-2	9601-1940	NCR
Controller pole/table	Emco	2090	9511-1099	NCR
V-Network	R & S	ESH2-Z5	872 460/041	09/2015

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use

(*) Equipment supplied by manufacturer's

Section 4: Result summary

4.1 Test results

The apparatus was assessed against the following specifications:

FCC Part 2 Subpart J, Equipment Authorization Procedures

FCC Part 24 Subpart E, Broadband PCS

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N	No : not applicable / not relevant.
Y	Yes : Mandatory i.e. the apparatus shall conform to these tests.
N/T	Not Tested, mandatory but not assessed. (See report summary)

Part	Test method	Test description	Required	Result
§24.232(a)	2.1046	Power and antenna height limits	Y	Pass
–	2.1049	Occupied bandwidth	Y	Pass
§24.238(a)	2.1051	Spurious emissions at the antenna terminal	Y	Pass
§24.238(a)	2.1053	Field strength of spurious radiation	Y	Pass
§24.235	2.1055	Frequency stability	N	N/A a)
§ 935210 D02v02r01 (D.3)(l)	–	Out of band rejection	Y	Pass

Notes:

- a) NOT APPLICABLE: Modulation/frequency conversion circuitry not in use. No frequency change in EUT (input and output have same frequency)



Appendix A: Test results

Clause 24.232(a) Power and antenna height limits

(a) (1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(a) (2) Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test date: [2015-05-18](#)

Test results: [Pass](#)

Special notes

Conducted measurement were performed:

- The power was measured using spectrum analyzer with RMS detector / average power meter.

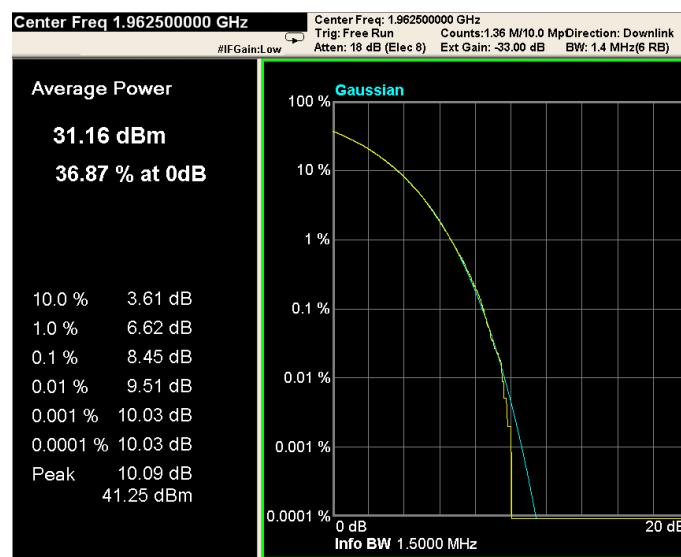
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB

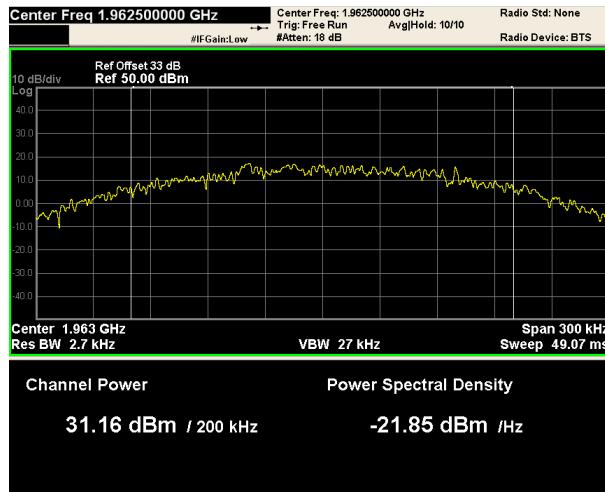
Only conducted measurement at antenna connector was possible, no antenna provided by manufacturer

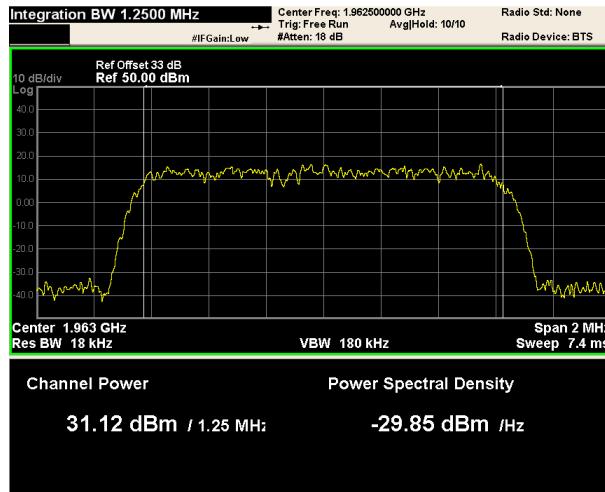
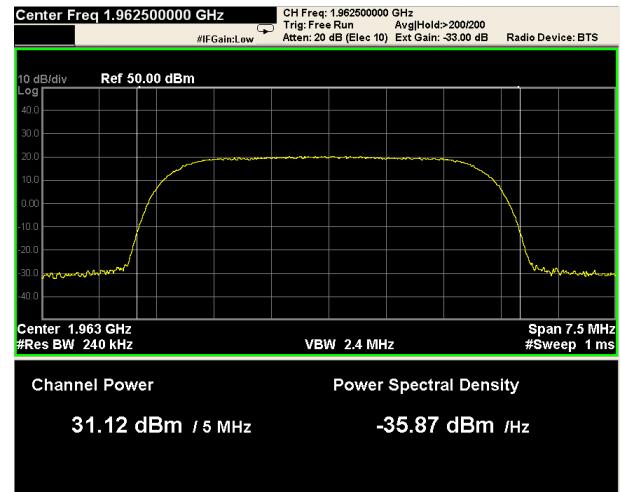
Clause 24.232(a) Equivalent isotropically radiated power limits, continued
Test data
Conducted measurements
Test data

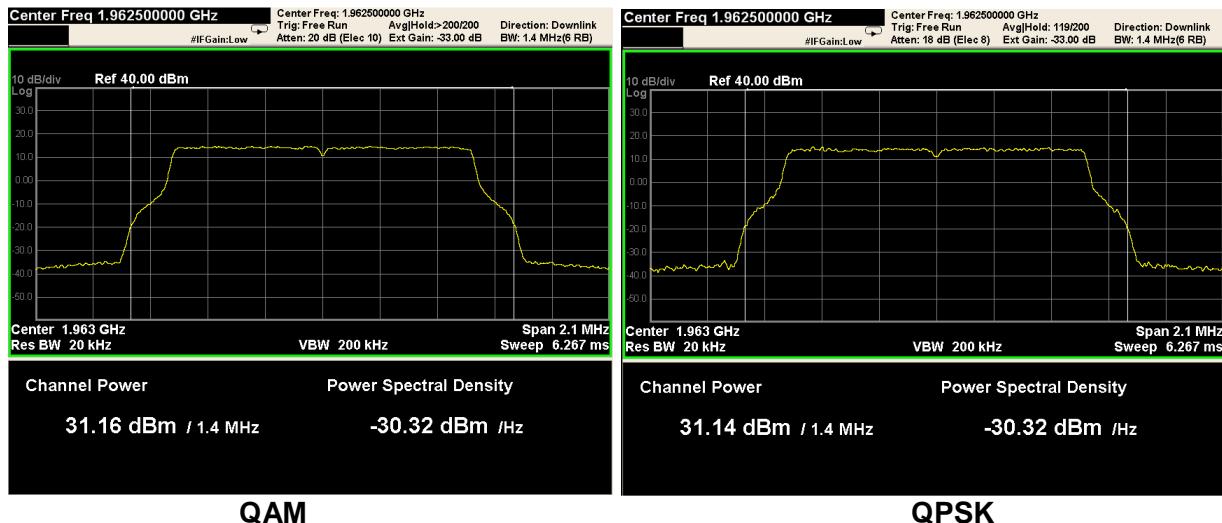
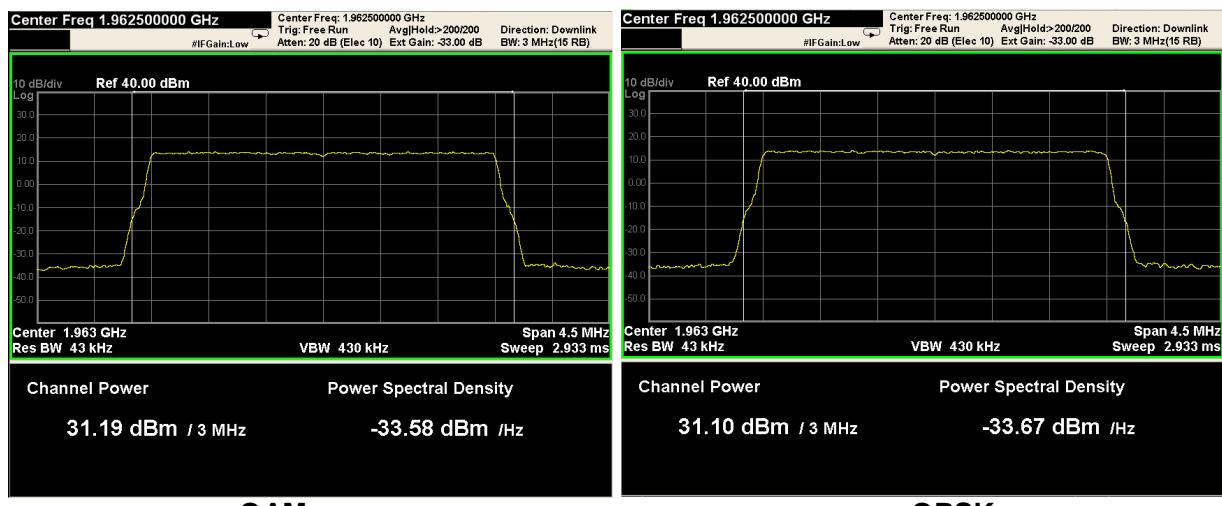
Direction	Modulation	Frequency (MHz)	RF output channel Power (dBm)	RF output channel Power (W)	PAR (dB)
Down-link	GSM (200 kHz)	1962.5	31.16	1.31	0,07
Down-link	EDGE (200 kHz)	1962.5	31.14	1.30	3,25
Down-link	CDMA (1,25MHz)	1962.5	31.12	1.29	9,07
Down-link	WCDMA (5MHz)	1962.5	31.12	1.29	10,62
Down-link	LTE (QAM, 1,4MHz)	1962.5	31.16	1.31	10,09
Down-link	LTE (QPSK, 1,4MHz)	1962.5	31.14	1.30	9,47
Down-link	LTE (QAM, 3MHz)	1962.5	31.19	1.32	10,29
Down-link	LTE (QPSK, 3MHz)	1962.5	31.10	1.29	10,48
Down-link	LTE (QAM, 5MHz)	1962.5	31.20	1.32	10,66
Down-link	LTE (QPSK, 5MHz)	1962.5	31.11	1.29	10,26
Down-link	LTE (QAM, 10MHz)	1962.5	31.18	1.31	10,93
Down-link	LTE (QPSK, 10MHz)	1962.5	31.15	1.30	10,60
Down-link	LTE (QAM, 15MHz)	1962.5	31.19	1.32	10,40
Down-link	LTE (QPSK, 15MHz)	1962.5	31.12	1.29	11,08
Down-link	LTE (QAM, 20MHz)	1962.5	31.15	1.30	10,23
Down-link	LTE (QPSK, 20MHz)	1962.5	31.19	1.32	10,54

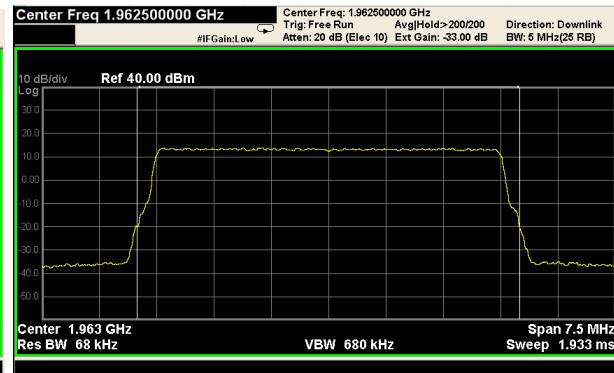
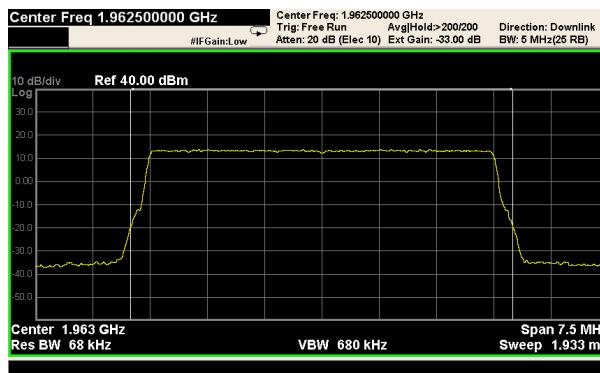
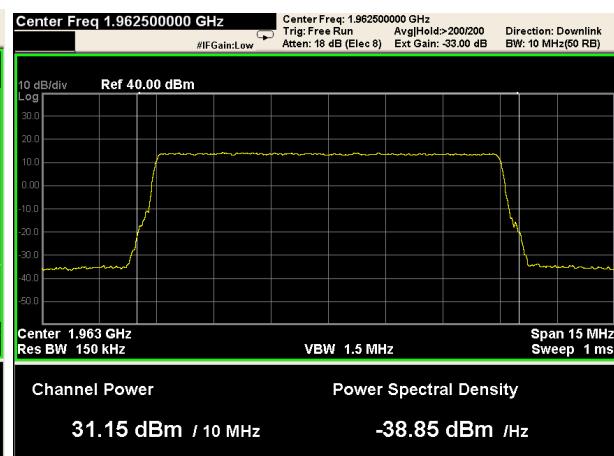
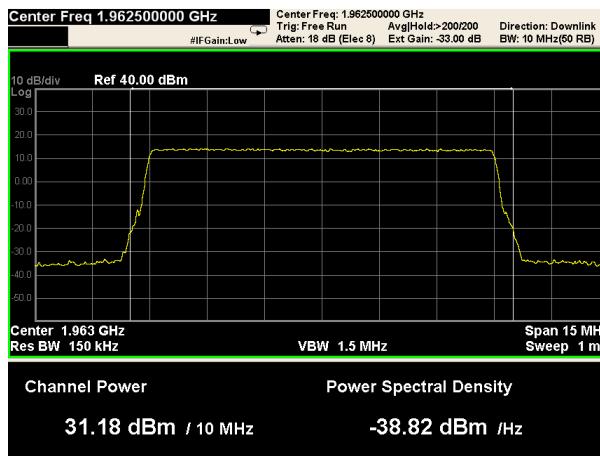
PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR. Below an example:


PAR measure example (LTE 1,4MHz QAM)

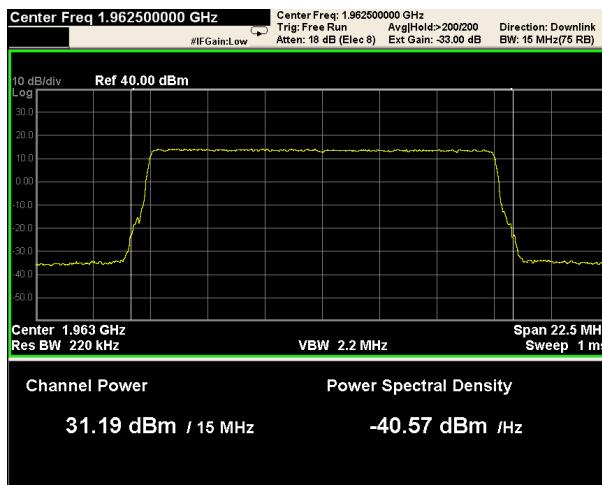
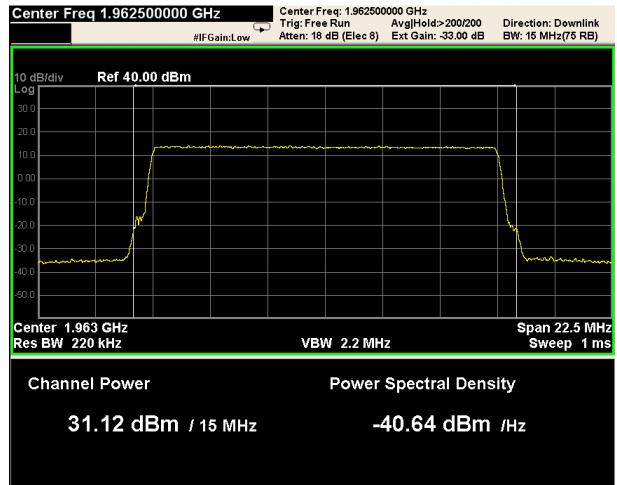
Test data
Mod. GSM

Mod. EDGE

Mod. CDMA

Mod. WCDMA


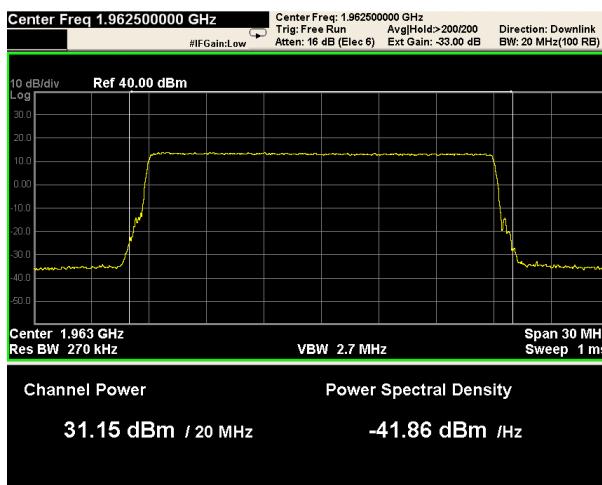
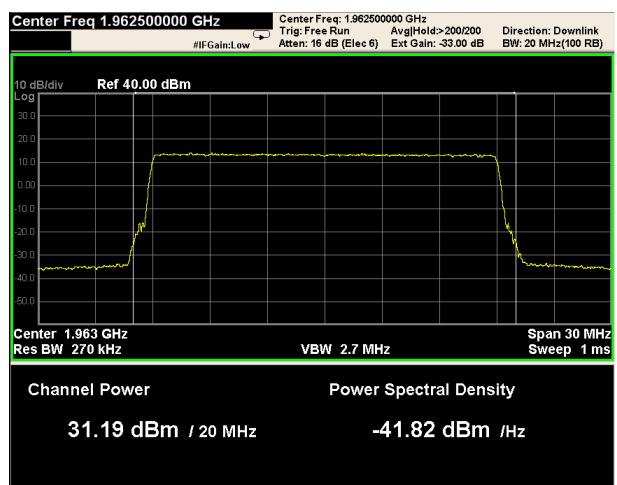
Mod. LTE 1,4MHz (Down-link)

Mod. LTE 3MHz (Down-link)


Mod. LTE 5MHz (Down-link)

QAM
QPSK
Mod. LTE 10MHz (Down-link)

QAM
QPSK

Mod. LTE 15MHz (Down-link)


QAM

QPSK

Mod. LTE 20MHz (Down-link)


QAM

QPSK

Clause 2.1049 Occupied bandwidth

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.

Assigned frequency range, MHz	Occupied bandwidth, dBc
1850–1910	-26

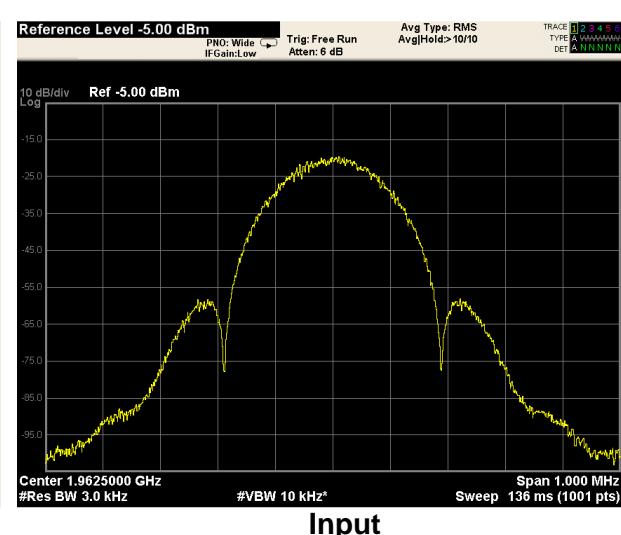
Test date: [2015-05-18](#)

Test results: [Pass](#)

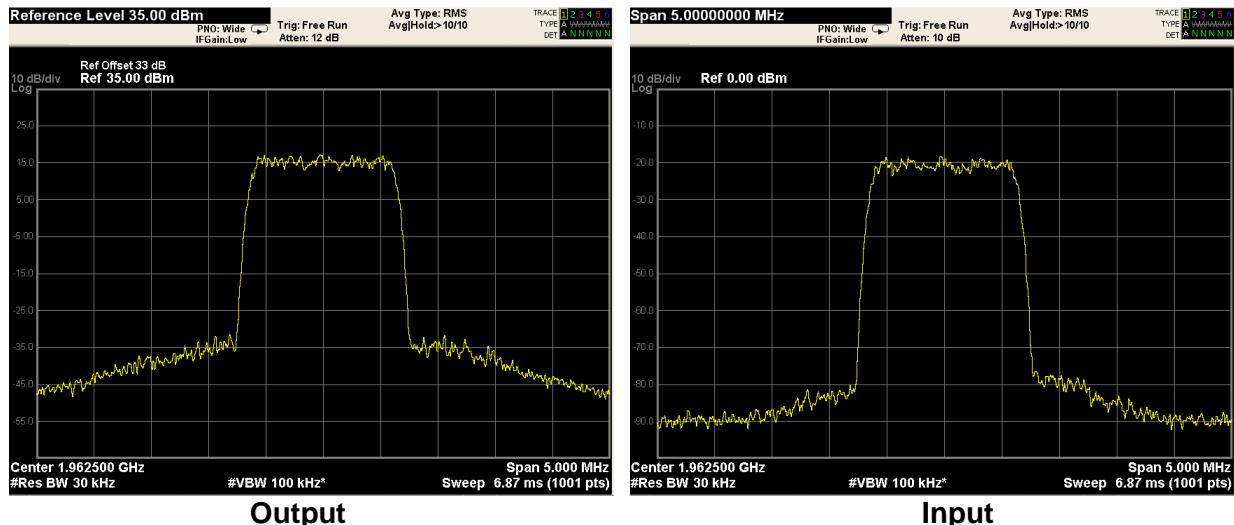
Special notes

Resolution bandwidth was set wider or equal than occupied bandwidth.

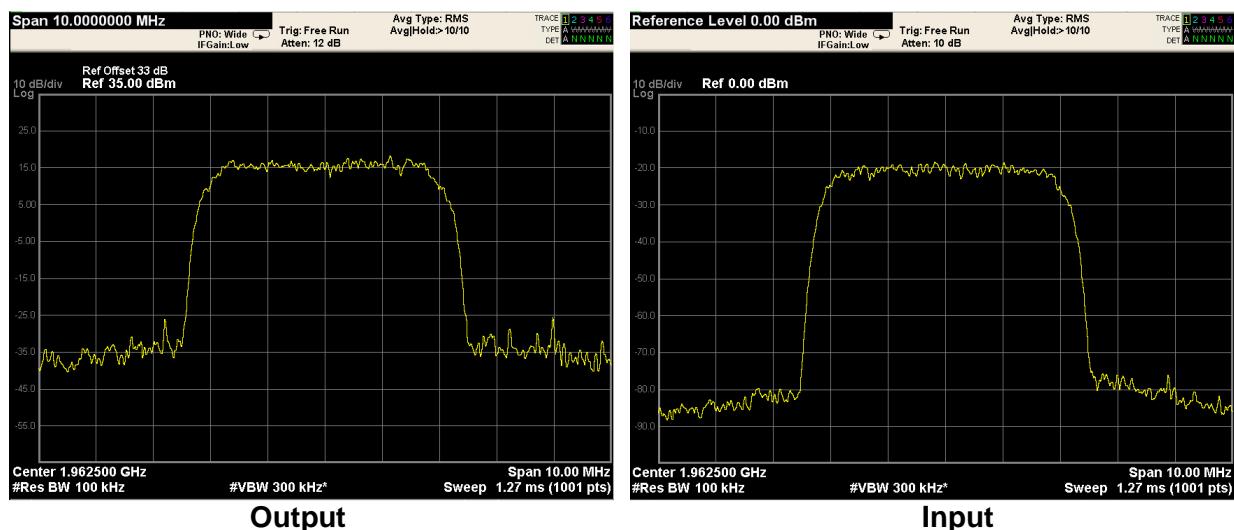
Clause 2.1049 Occupied bandwidth, continued
Test data
Mod. GSM (Down-link)

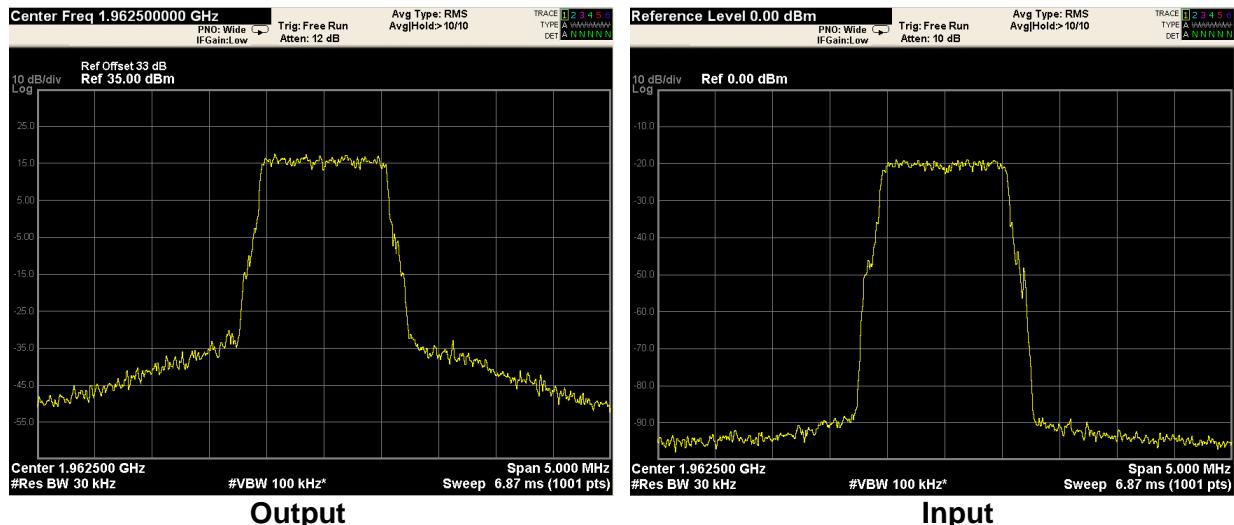
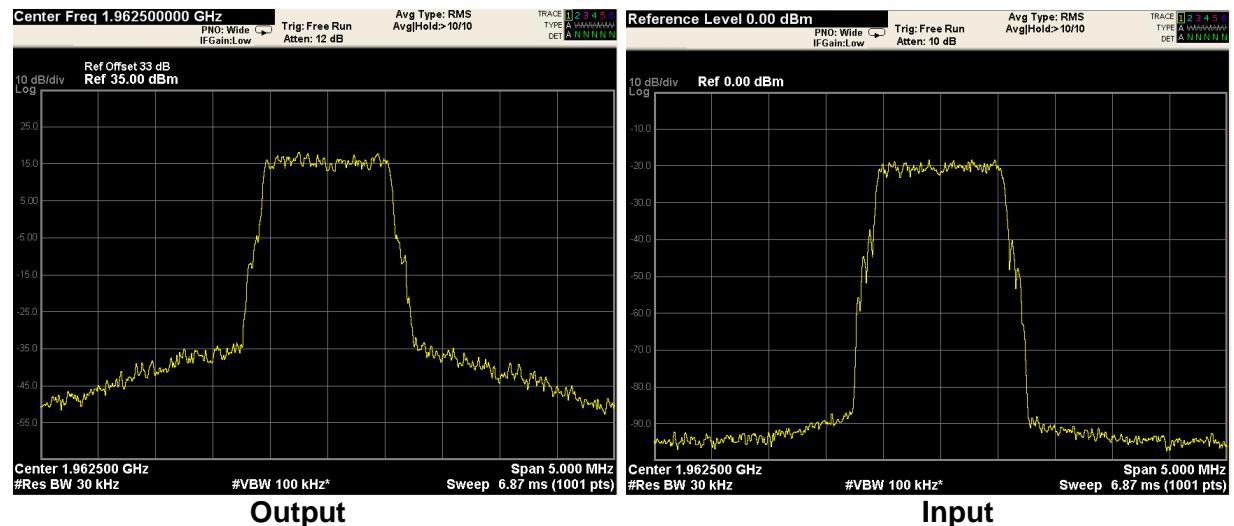
Mod. EDGE (Down-link)


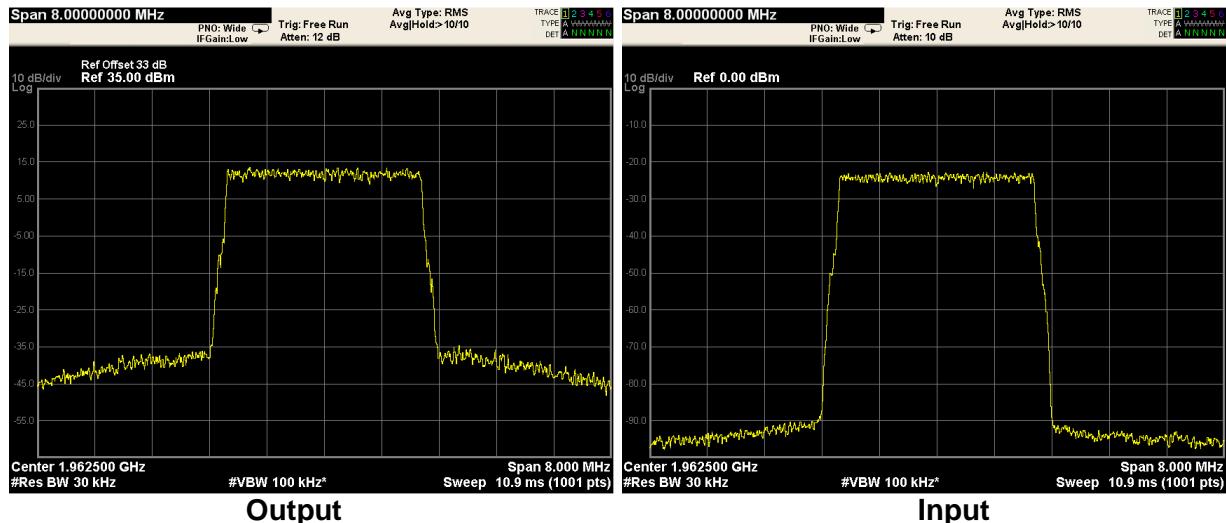
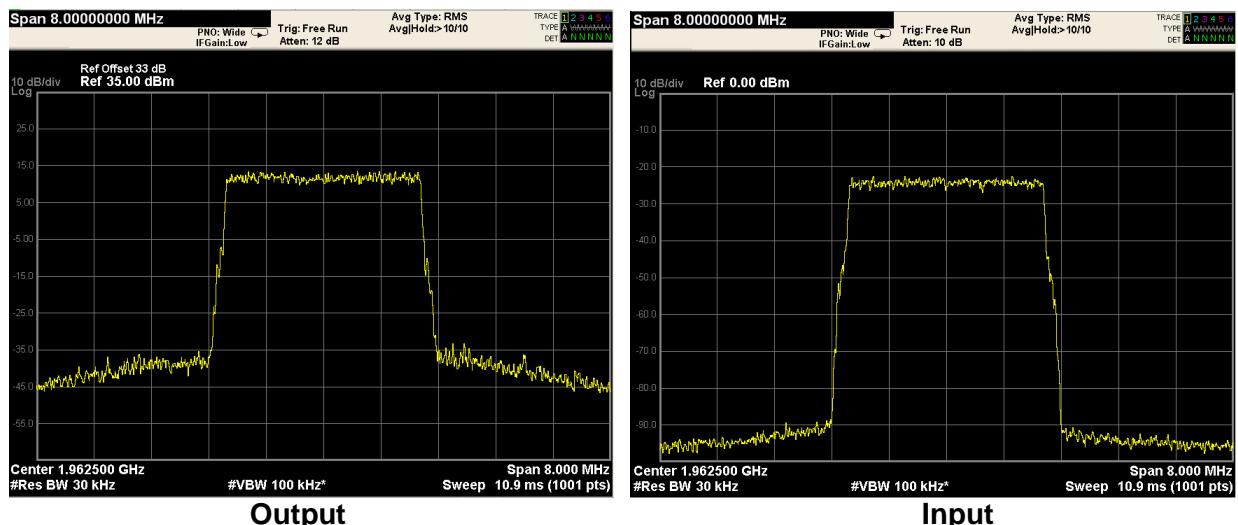
Mod. CDMA (Down-link)

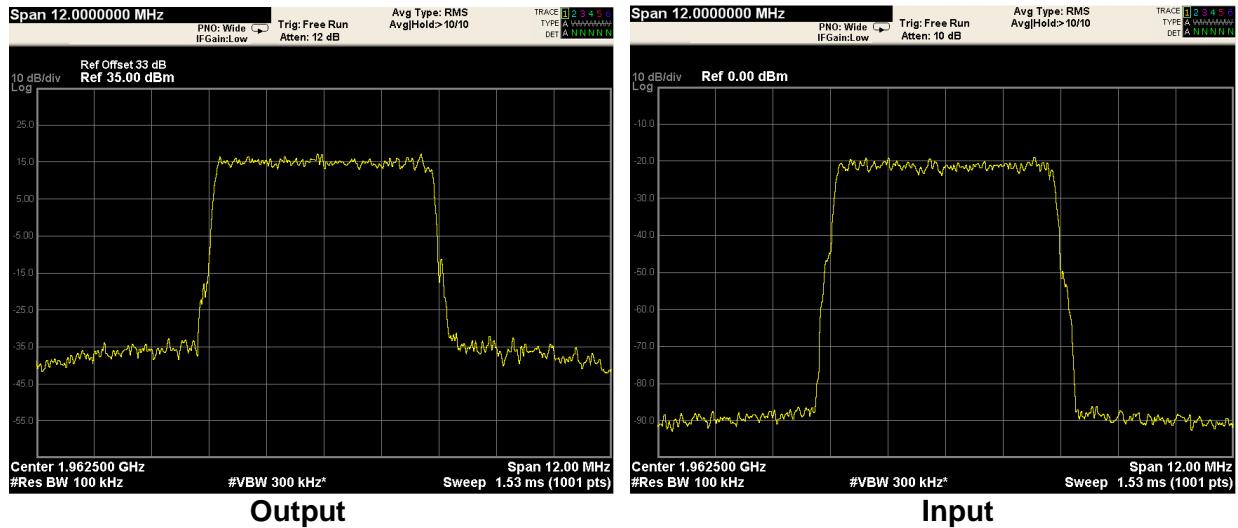
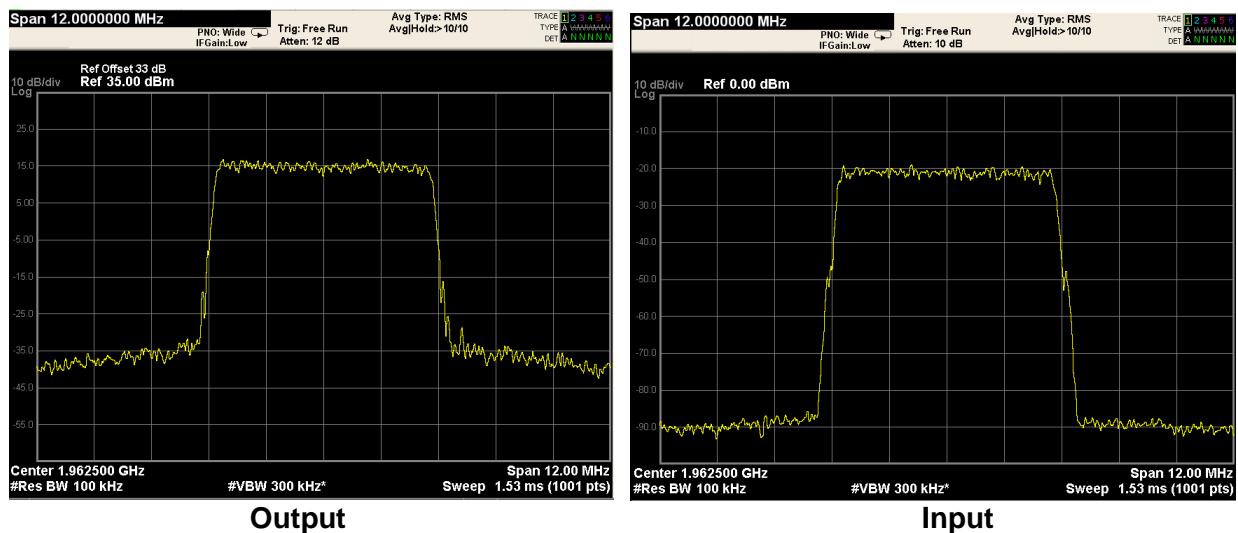


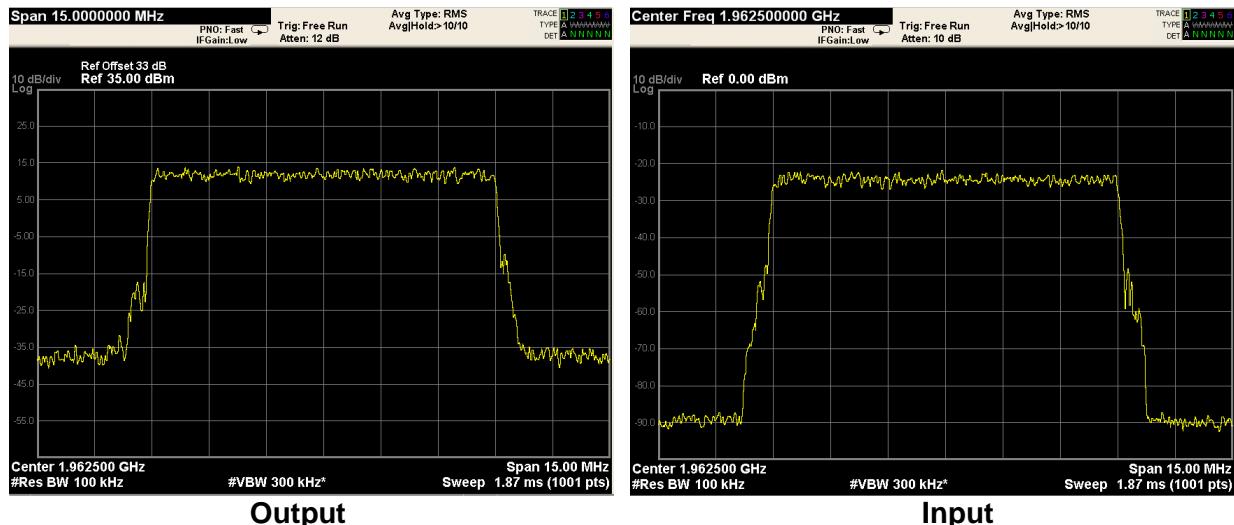
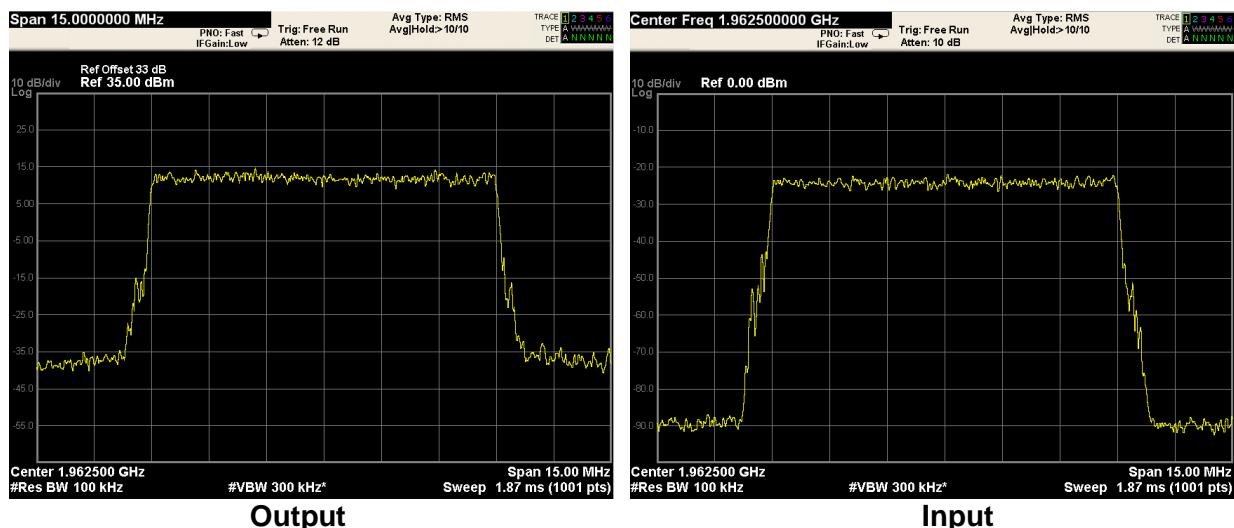
Mod. WCDMA (Down-link)

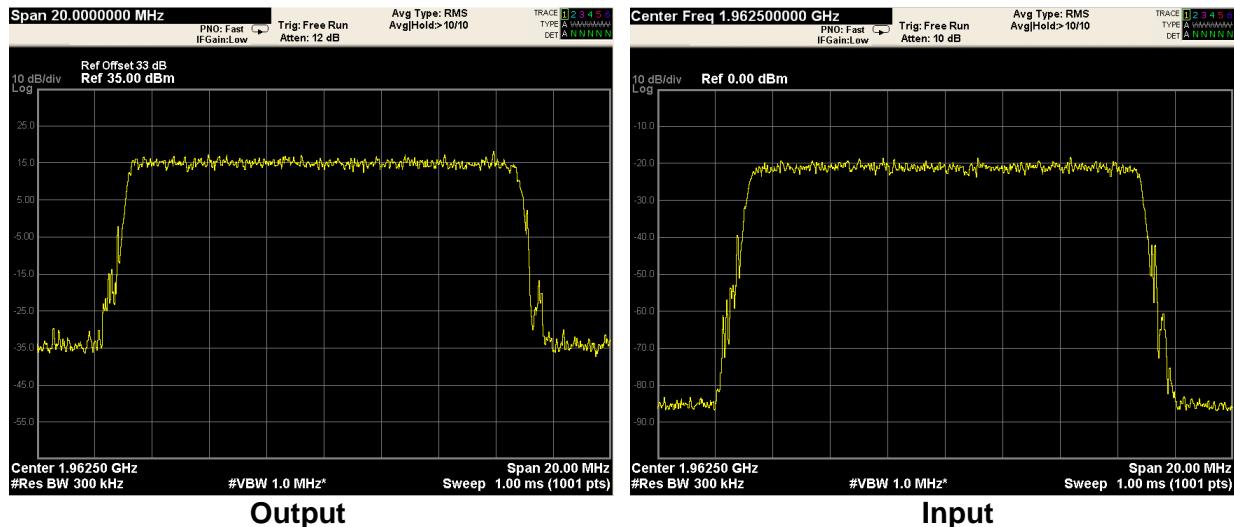
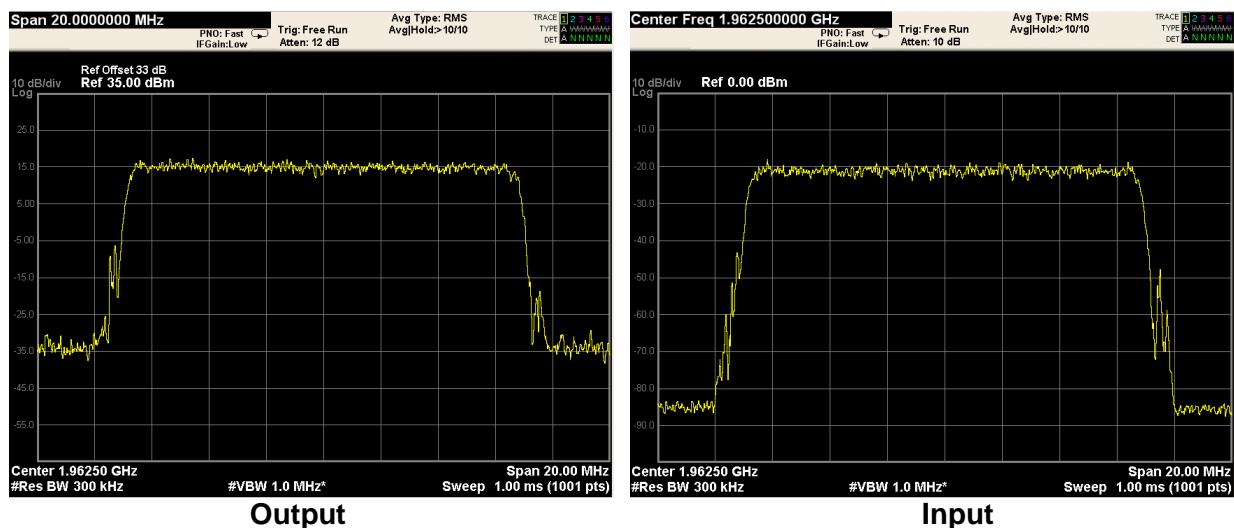


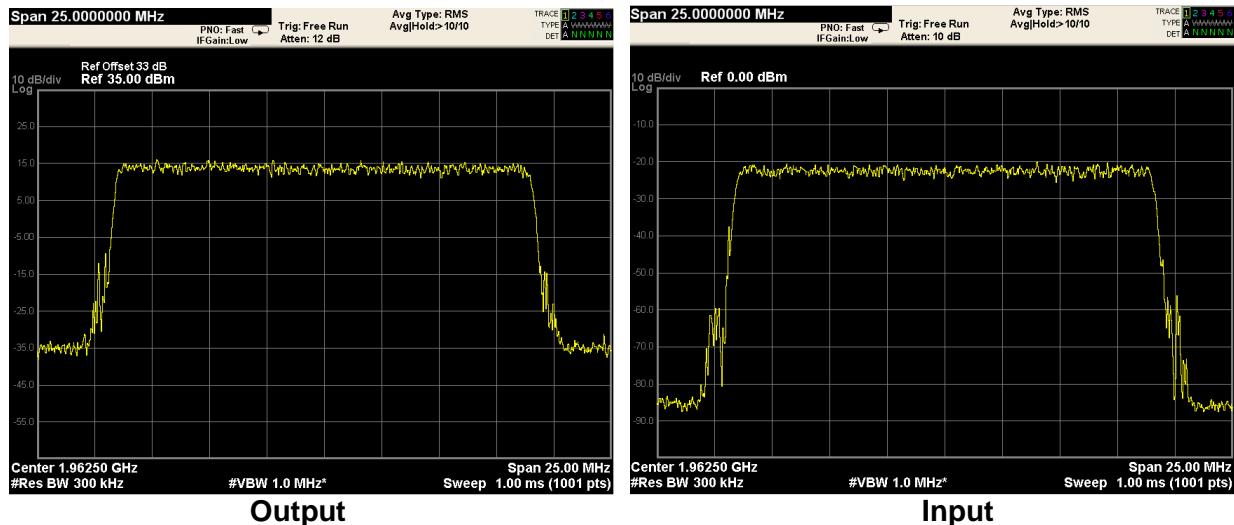
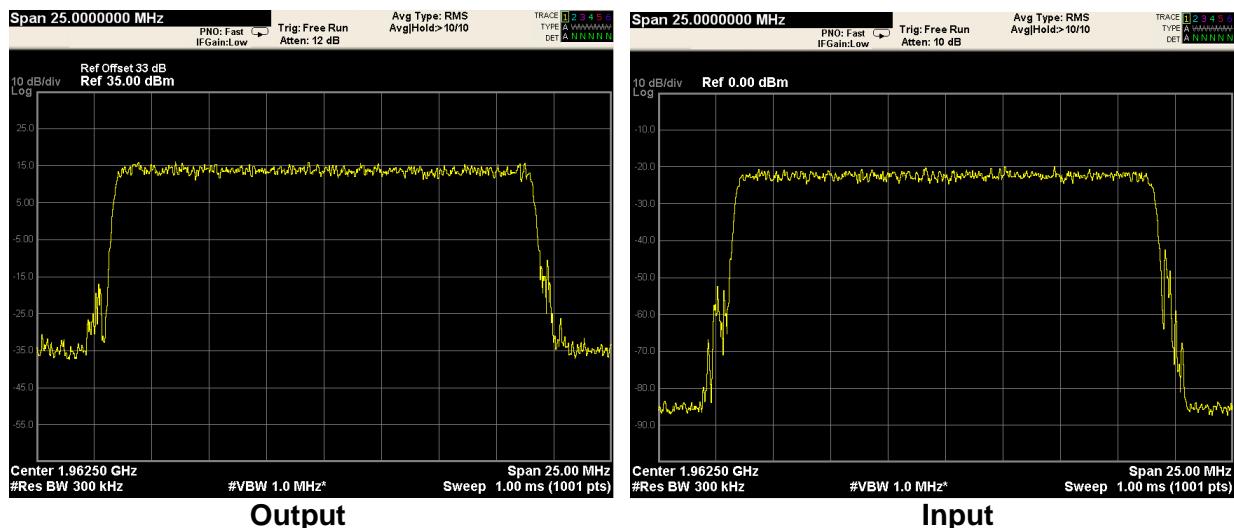
Mod. LTE 1.4MHz (QAM) (Down-link)

Mod. LTE 1.4MHz (QPSK) (Down-link)


Mod. LTE 3MHz (QAM) (Down-link)

Mod. LTE 3MHz (QPSK) (Down-link)


Mod. LTE 5MHz (QAM) (Down-link)

Mod. LTE 5MHz (QPSK) (Down-link)


Mod. LTE 10MHz (QAM) (Down-link)

Mod. LTE 10MHz (QPSK) (Down-link)


Mod. LTE 15MHz (QAM) (Down-link)

Mod. LTE 15MHz (QPSK) (Down-link)


Mod. LTE 20MHz (QAM) (Down-link)

Mod. LTE 20MHz (QPSK) (Down-link)


Clause 24.238(a) Spurious emissions at antenna terminal

a) Out of band emissions. 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.

Frequency, MHz	Attenuation below carrier, dBc	ERP of spurious, dBm
30–10 th harmonic	$43 + 10 \log(P)$	-13

Test date: **2015-05-18**

Test results: **Pass**

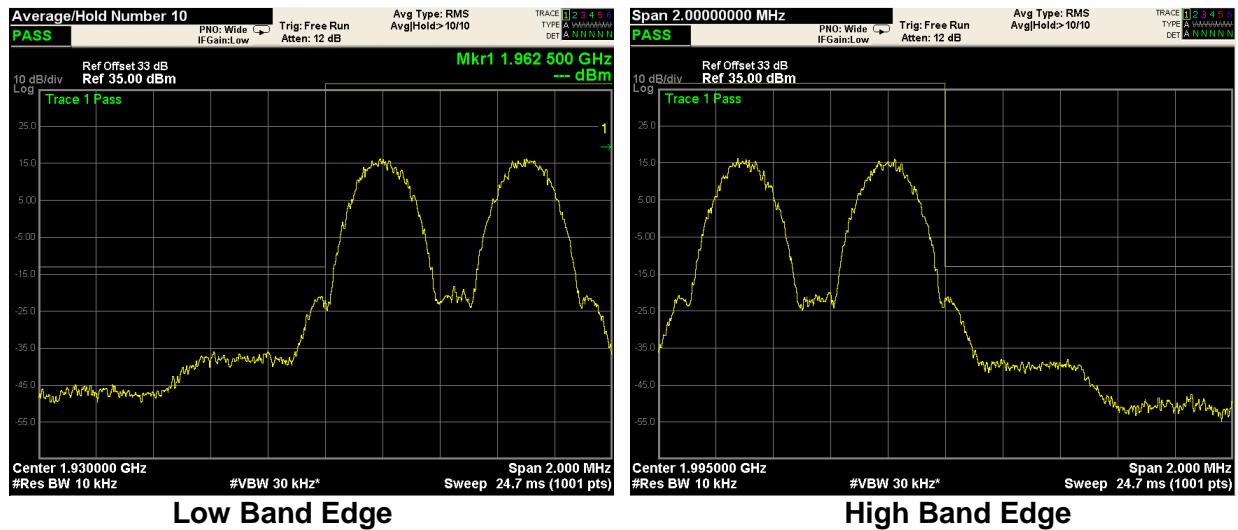
Special notes

- The spectrum was searched from 30 MHz up to 10th harmonic
- Only the worst data presented in the test report.

(b) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 1 MHz or 1 percent of emission bandwidth, as specified).

Clause 24.238(a), continued: band edges inter modulation

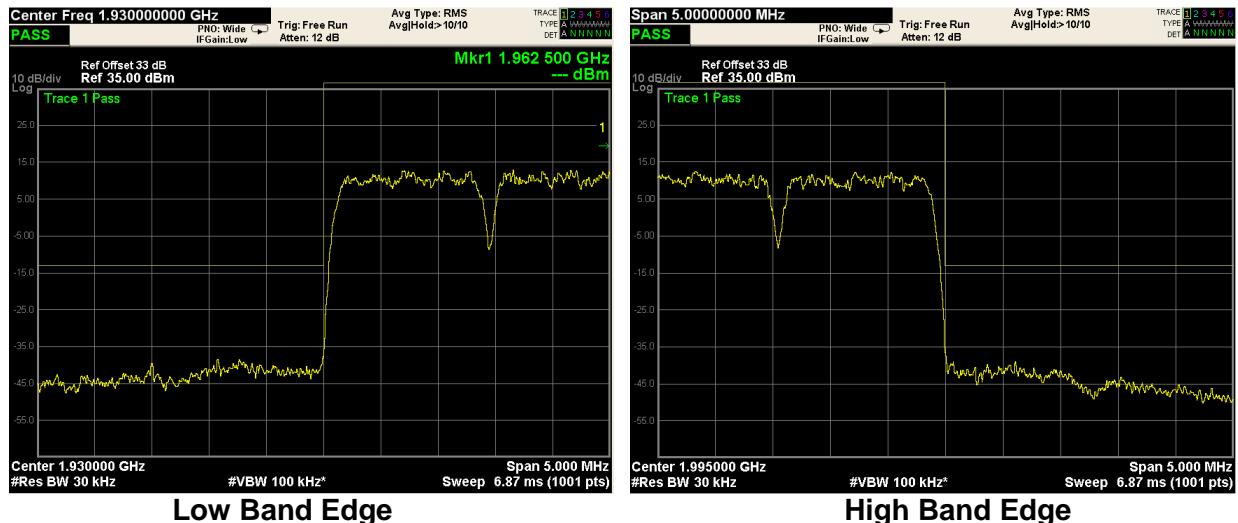
Mod. GSM (Down-link)



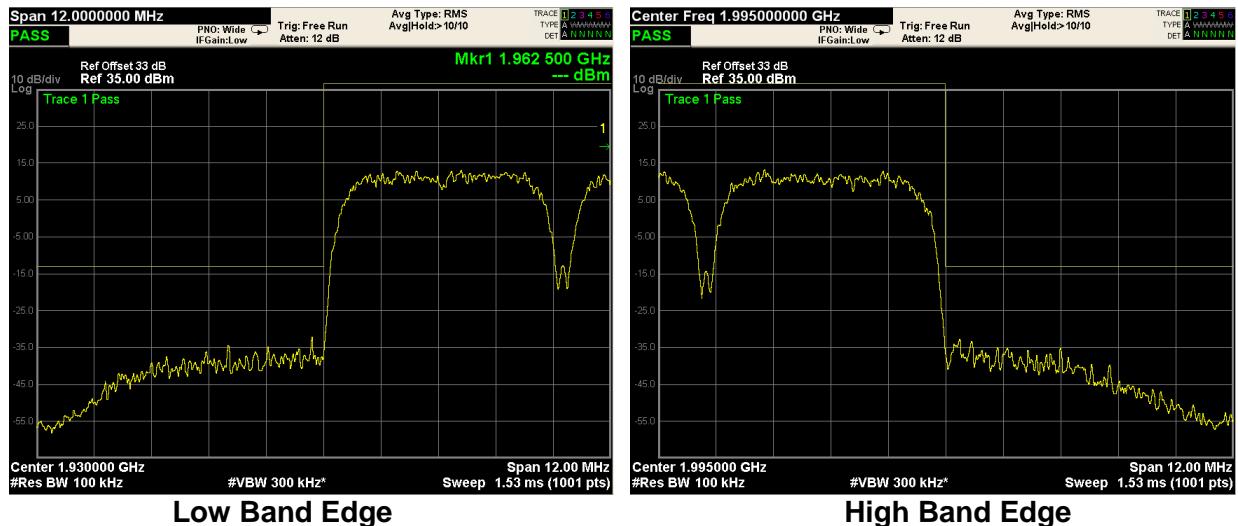
Mod. EDGE (Down-link)

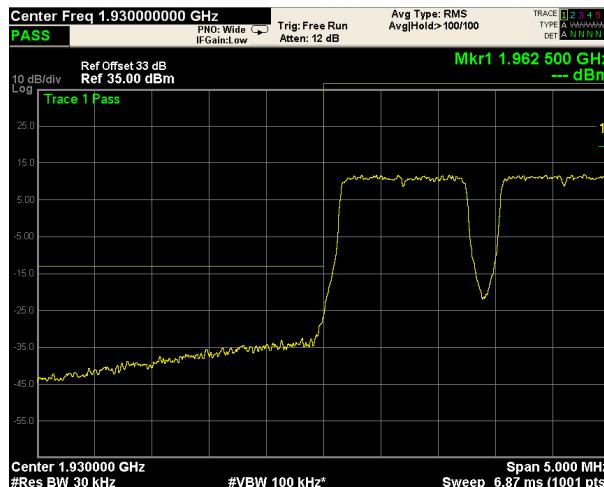
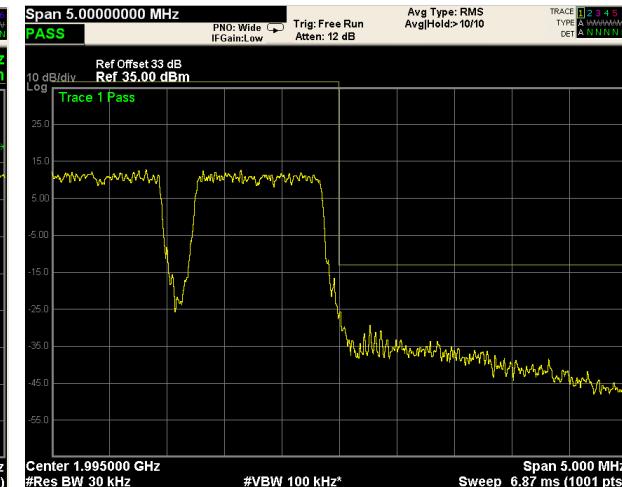
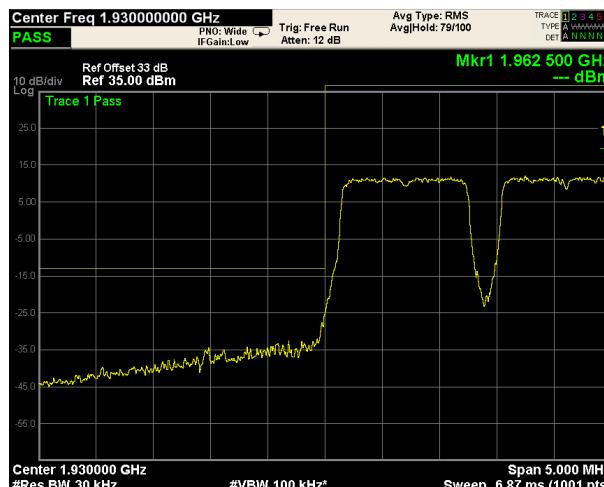
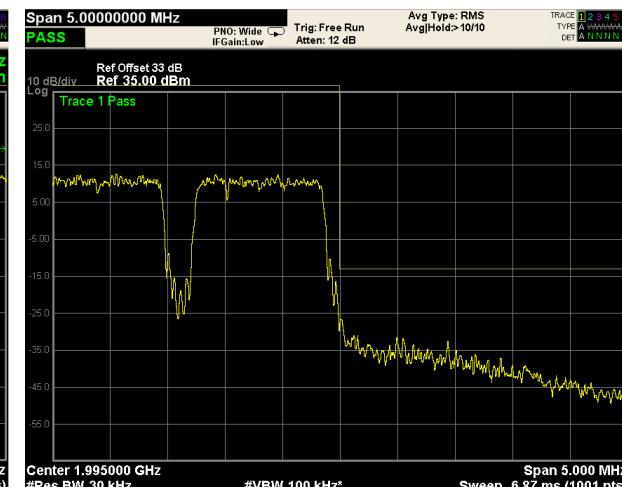


Mod. CDMA (Down-link)

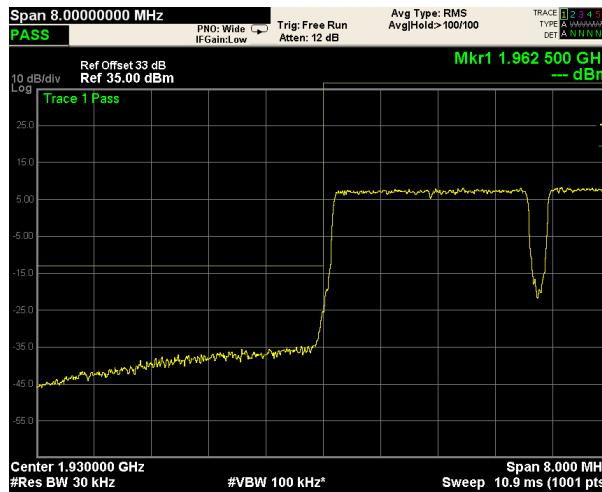


Mod. WCDMA (Down-link)

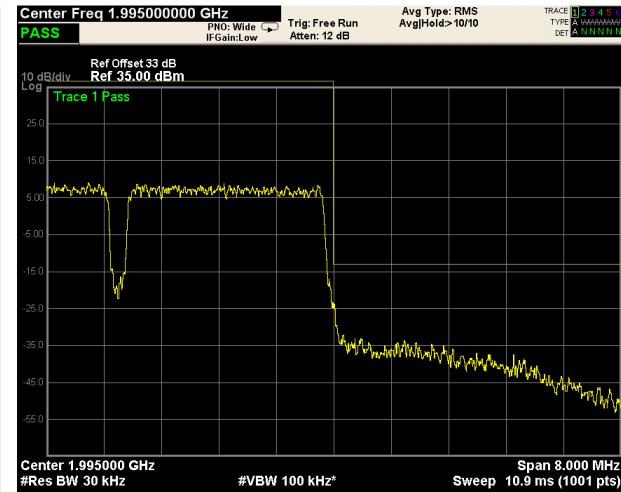


Mod. LTE 1.4MHz (QAM) (Down-link)

Low Band Edge

High Band Edge
Mod. LTE 1.4MHz (QPSK) (Down-link)

Low Band Edge

High Band Edge

Mod. LTE 3MHz (QAM) (Down-link)

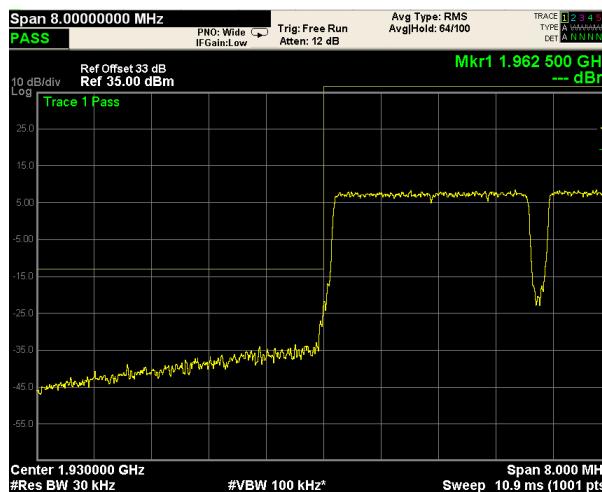


Low Band Edge

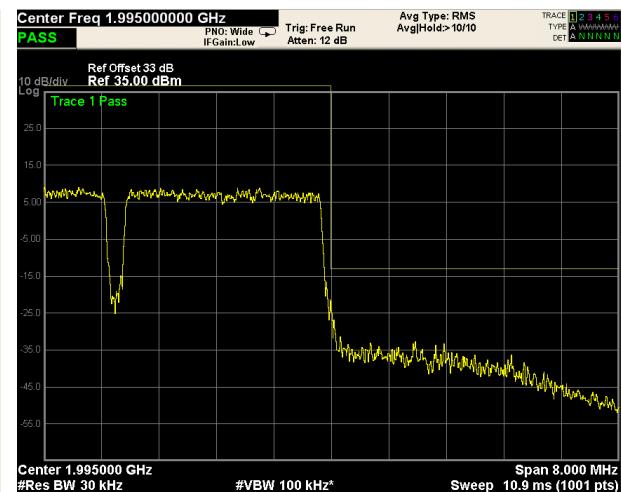


High Band Edge

Mod. LTE 3MHz (QPSK) (Down-link)



Low Band Edge



High Band Edge

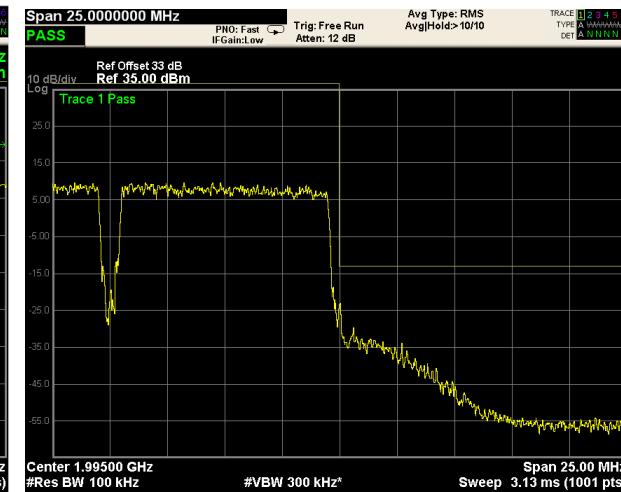
Mod. LTE 5MHz (QAM) (Down-link)

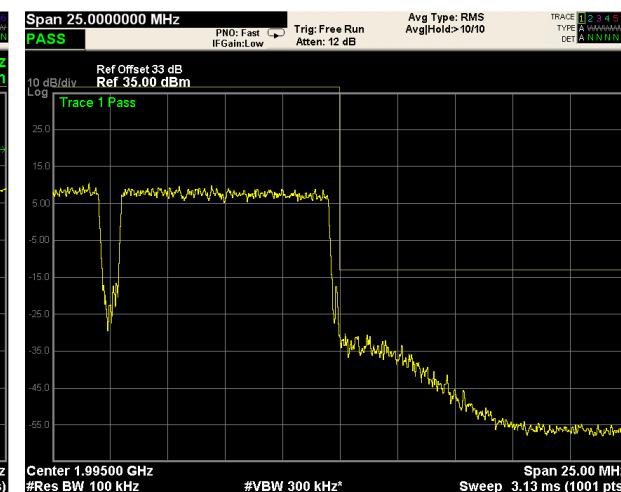


Mod. LTE 5MHz (QPSK) (Down-link)

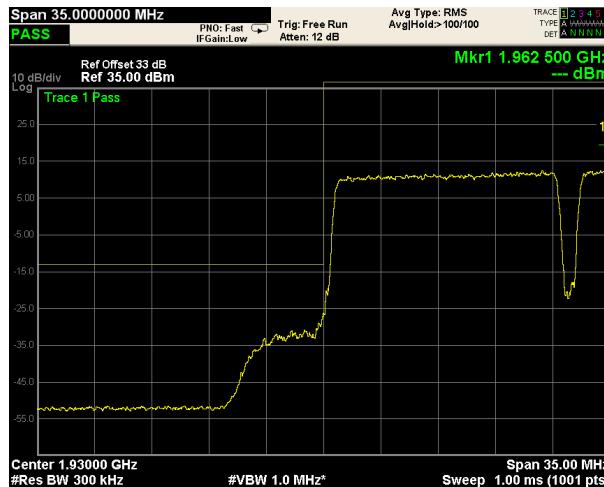
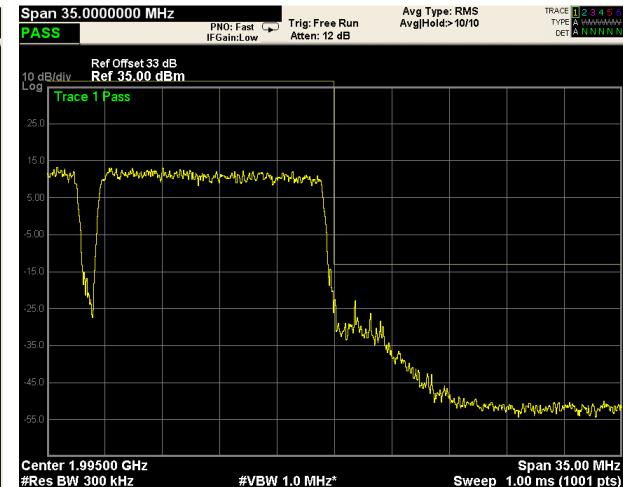


Mod. LTE 10MHz (QAM) (Down-link)

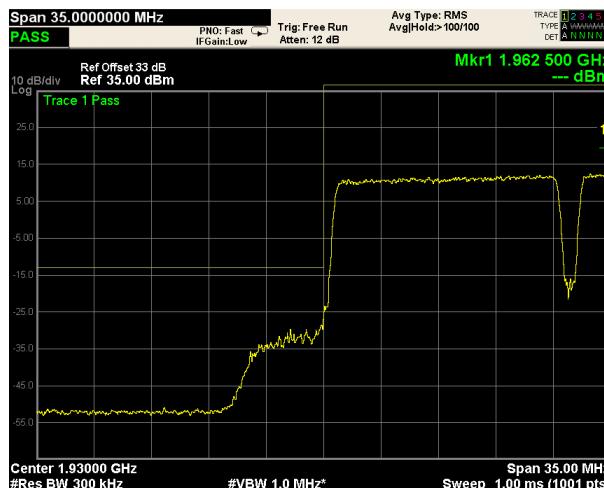
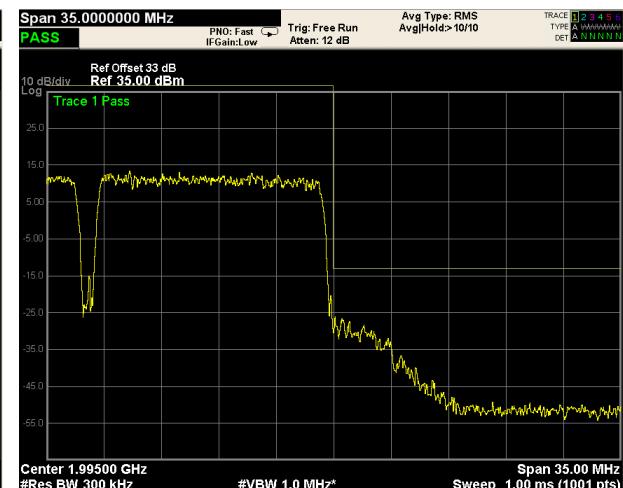
Low Band Edge

High Band Edge
Mod. LTE 10MHz (QPSK) (Down-link)

Low Band Edge

High Band Edge

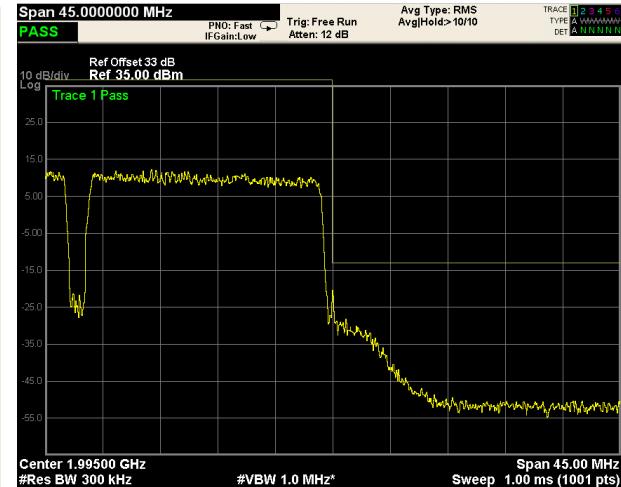
Mod. LTE 15MHz (QAM) (Down-link)

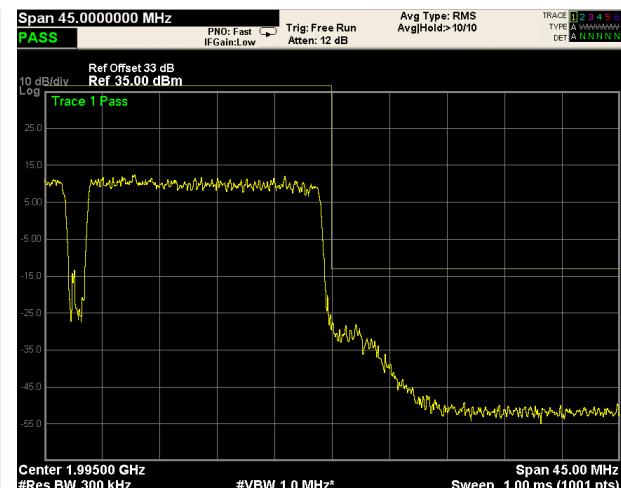

Low Band Edge

High Band Edge

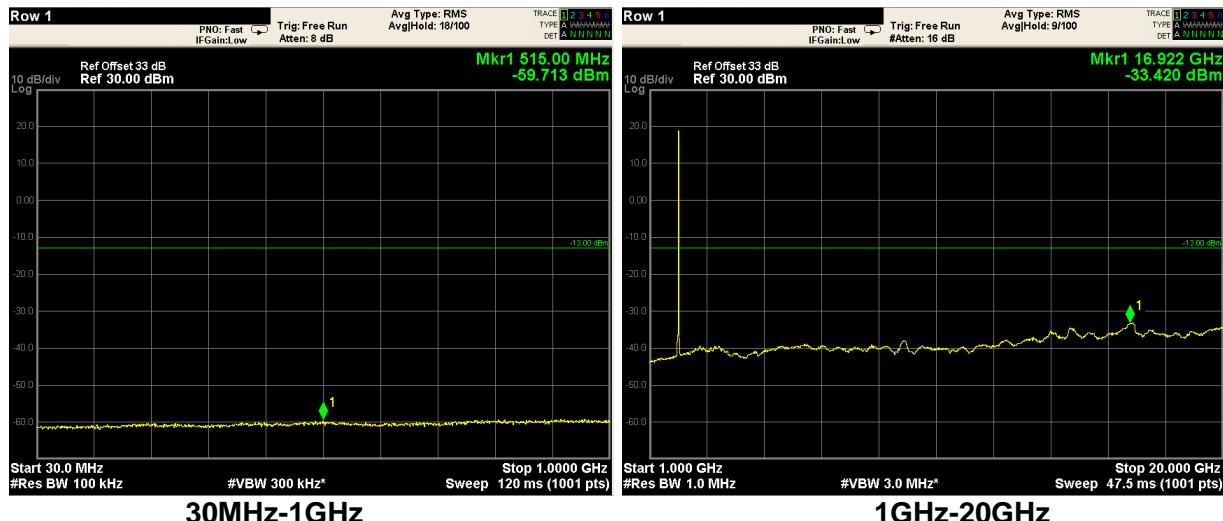
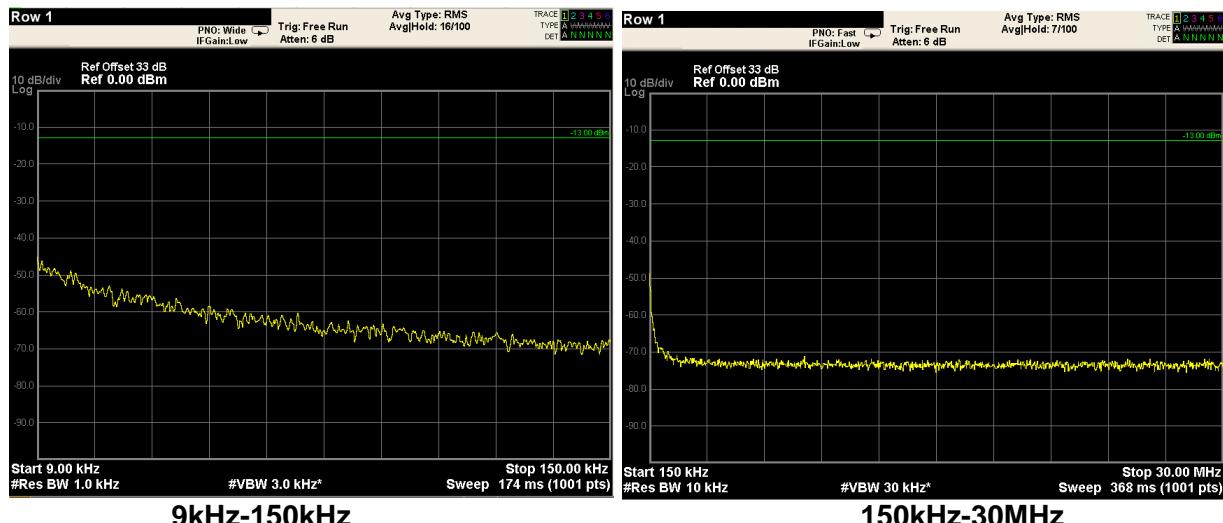
Mod. LTE 15MHz (QPSK) (Down-link)

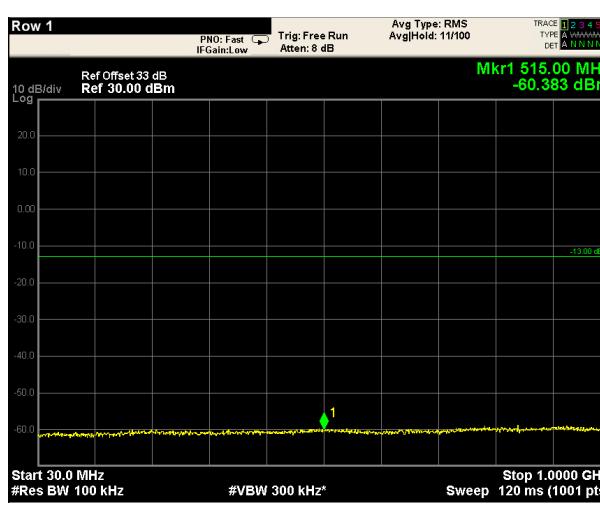
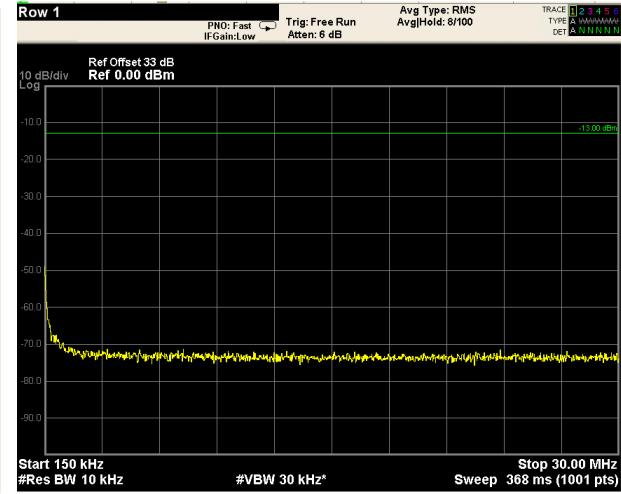
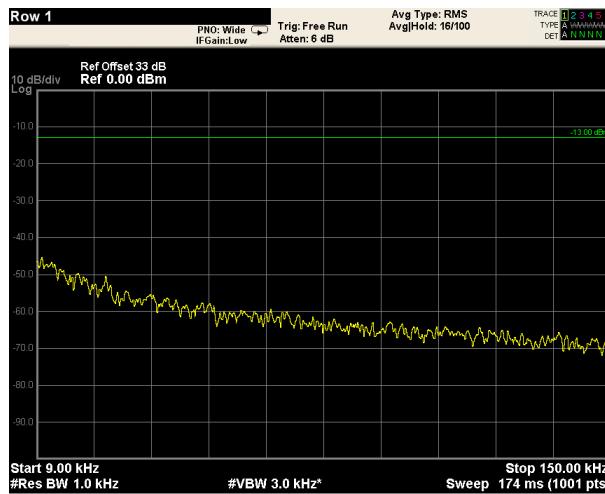

Low Band Edge

High Band Edge

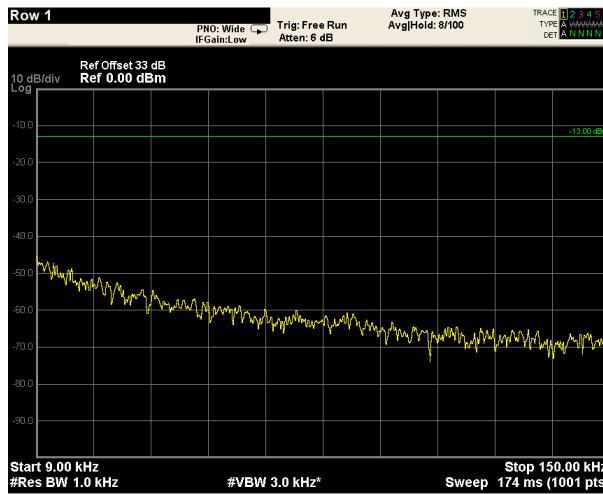
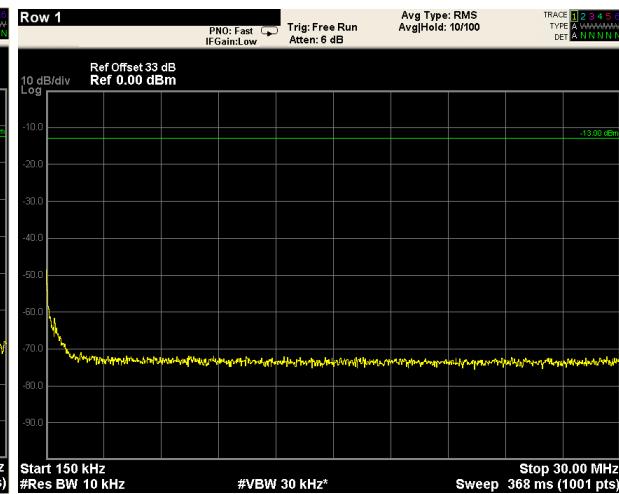
Mod. LTE 20MHz (QAM) (Down-link)

Low Band Edge

High Band Edge
Mod. LTE 20MHz (QPSK) (Down-link)

Low Band Edge

High Band Edge

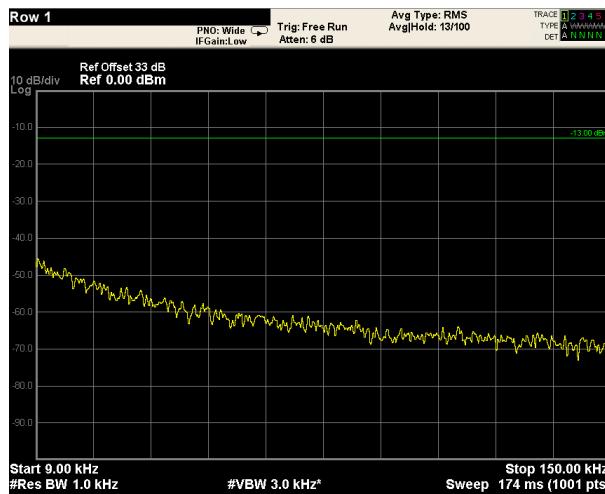
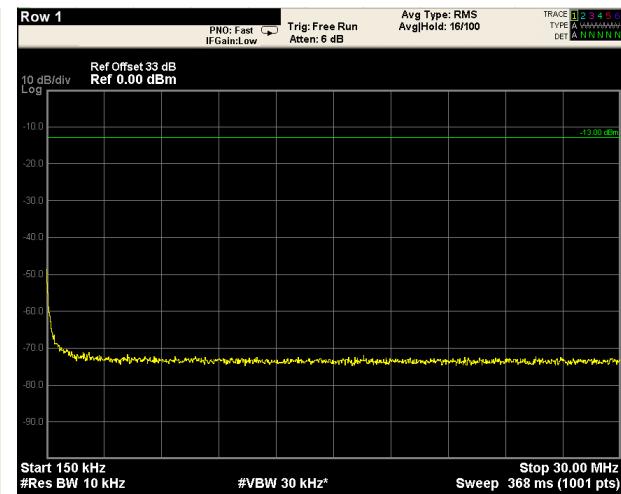
Clause 24.238(a), continued: spurious emissions at antenna terminal
Mod. GSM (Down-link)


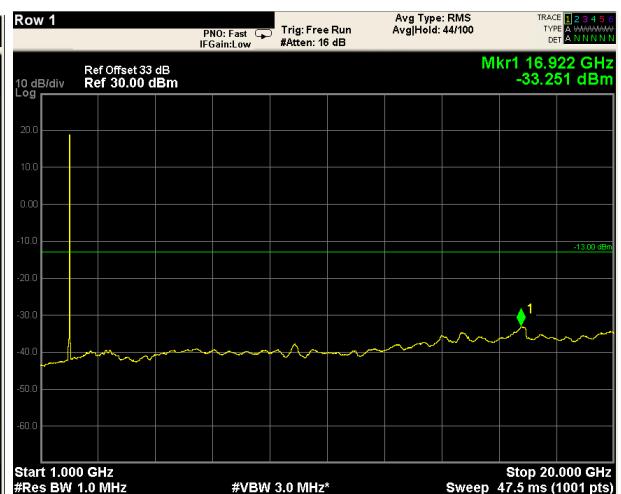
Mod. EDGE (Down-link)


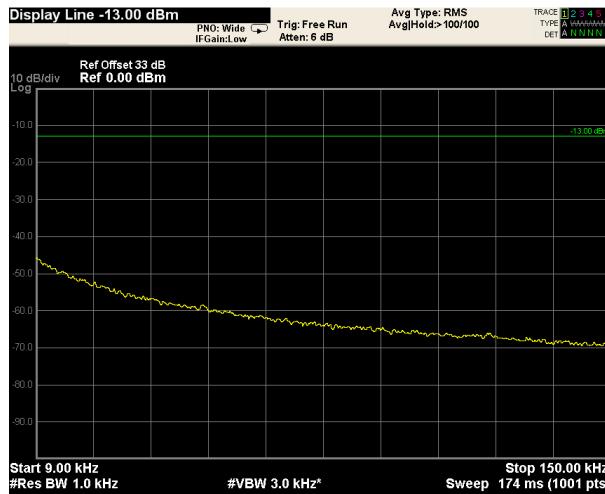
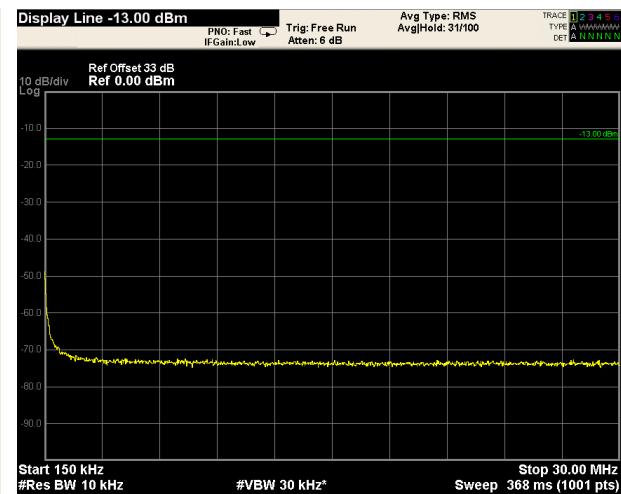
Mod. CDMA (Down-link)

9kHz-150kHz

150kHz-30MHz

30MHz-1GHz

1GHz-20GHz

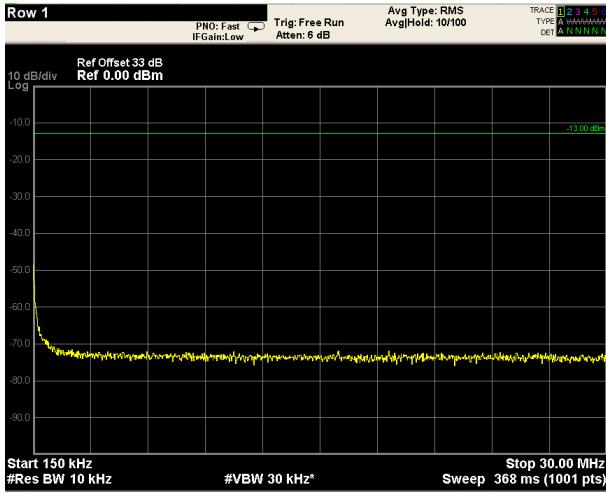
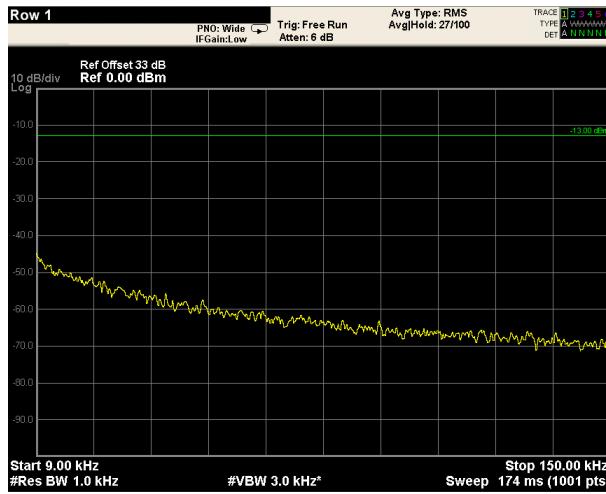
Mod. WCDMA (Down-link)

9kHz-150kHz

150kHz-30MHz

30MHz-1GHz

1GHz-20GHz

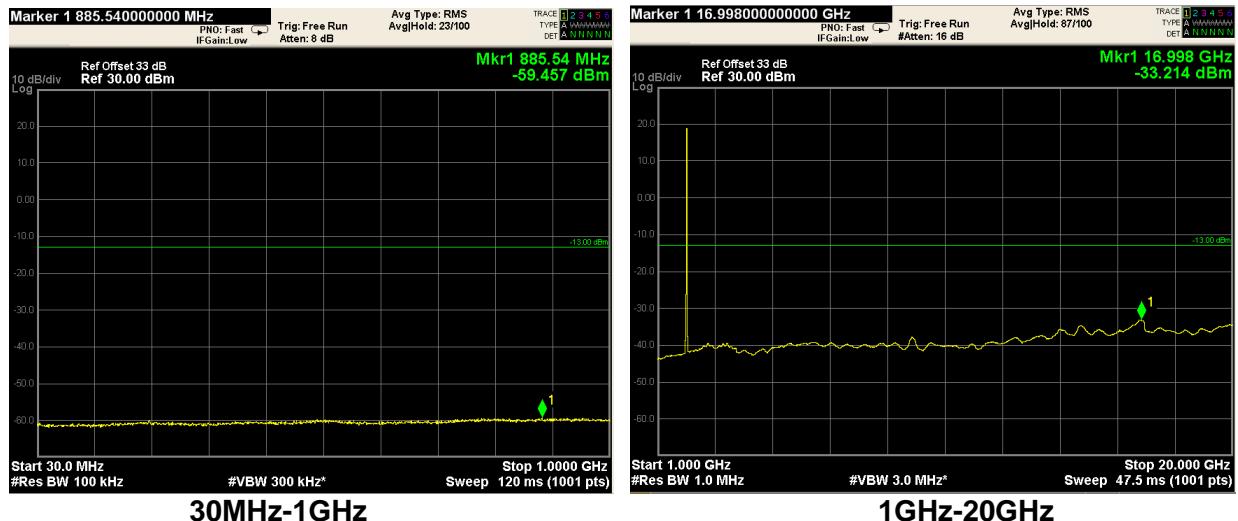
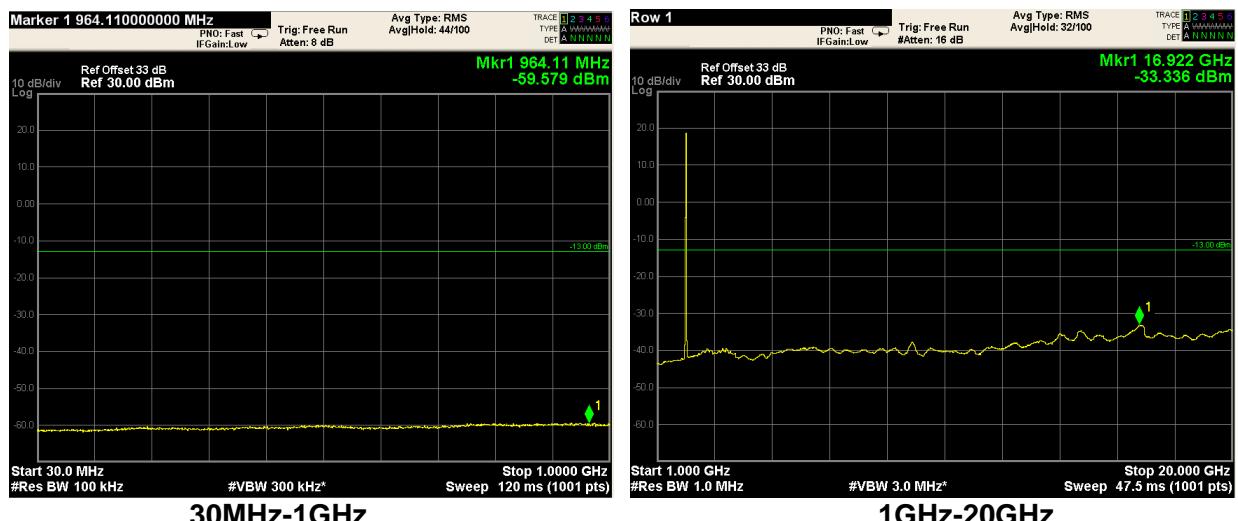
Mod. LTE 1.4MHz (QAM) (Down-link)

9kHz-150kHz

150kHz-30MHz

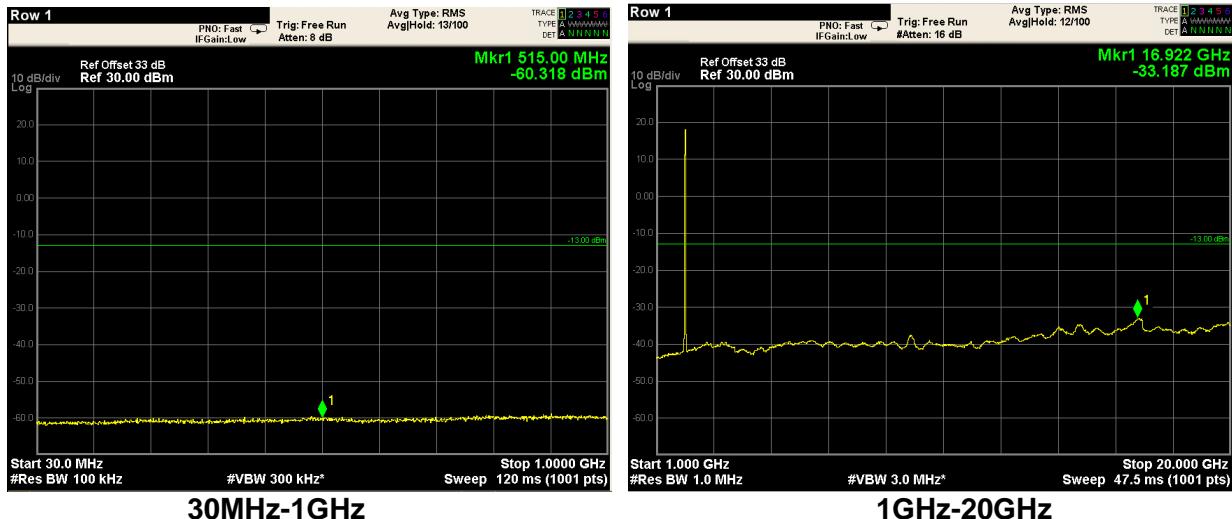
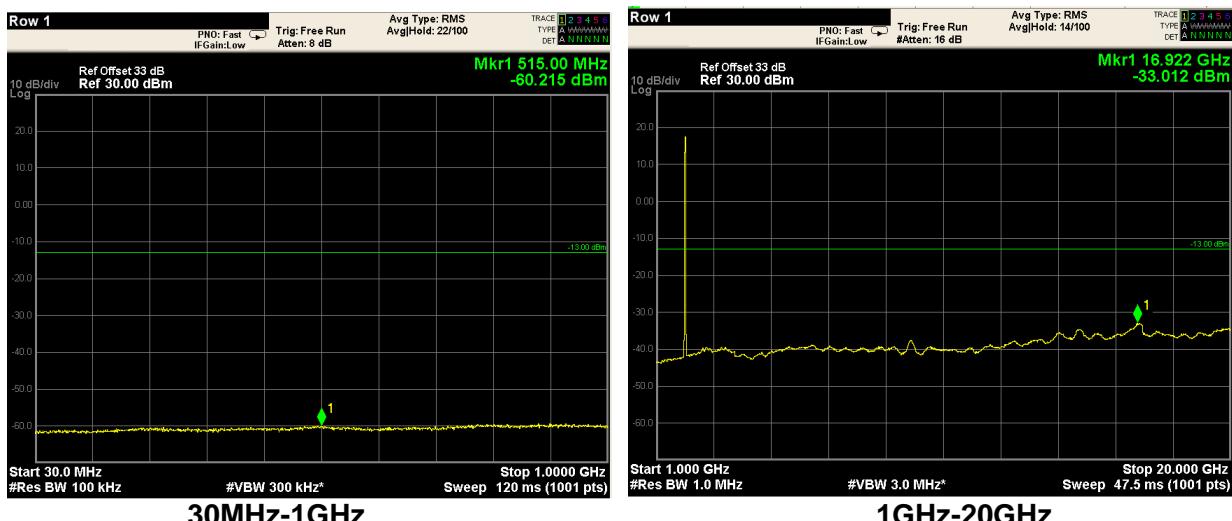
30MHz-1GHz

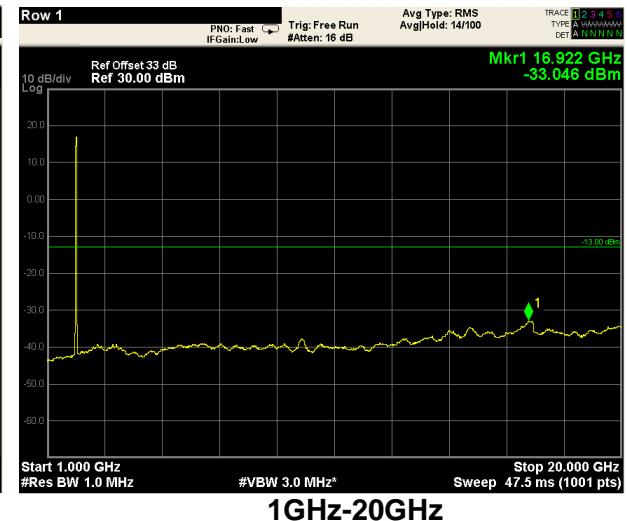
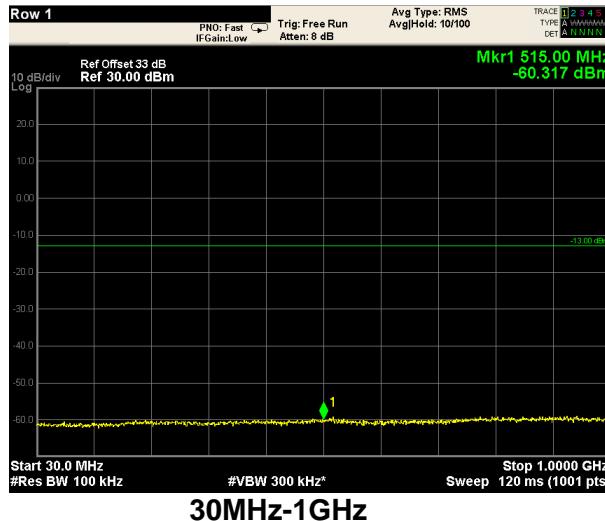
1GHz-20GHz

Mod. LTE 1.4MHz (QPSK) (Down-link)

9kHz-150kHz
150kHz-30MHz

30MHz-1GHz
1GHz-20GHz

Mod. LTE 3MHz, only 30M-20G plot (Down-link)

Mod. LTE 5MHz, only 30M-20G plot (Down-link)


Mod. LTE 10MHz, only 30M-20G plot (Down-link)

Mod. LTE 15MHz, only 30M-20G plot (Down-link)


Mod. LTE 20MHz, only 30M-20G plot (Down-link)




Clause 24.238(a) Field strength of spurious radiation

a) Out of band emissions. 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.

Frequency, MHz	Attenuation below carrier, dBc	ERP of spurious, dBm	Equivalent field strength limit* at 3 m, dB μ V/m
30–10 th harmonic	$43 + 10 \log(P)$	-13	84.4

* - Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows:

$$E = \sqrt{\frac{30 \times P \times 1.64}{r}}, \text{ where } P \text{ is ERP in W, 1.64 is numeric gain of ideal dipole and } r \text{ is antenna to EUT distance in m.}$$

Test date: 2015-05-19/20

Test results: Pass

Special notes

- The spectrum was searched from 30 MHz up to 10th harmonic
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- The EUT's antenna port was terminated with 50Ω termination

(b) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.* 1 MHz or 1 percent of emission bandwidth, as specified).

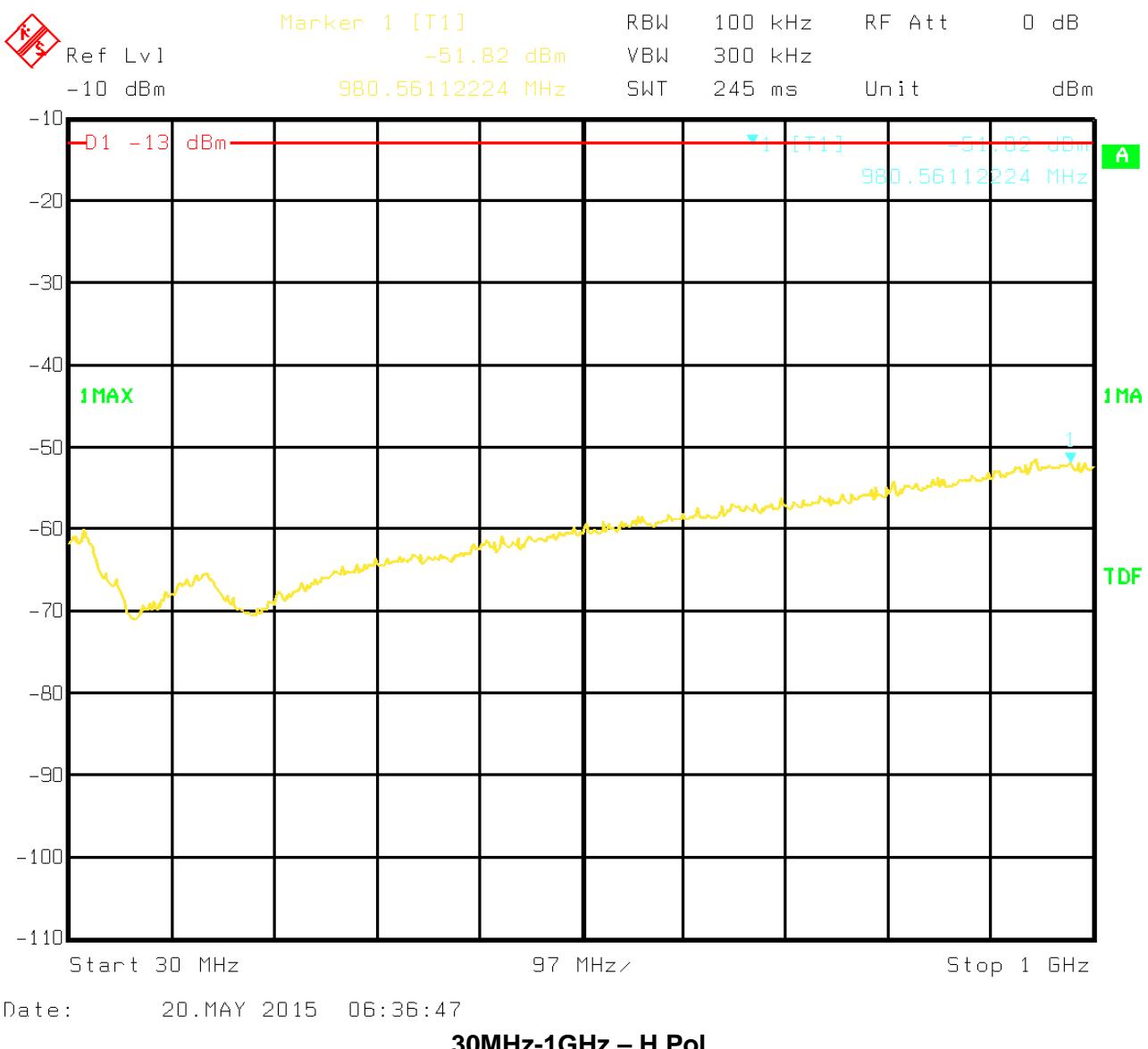
Test data

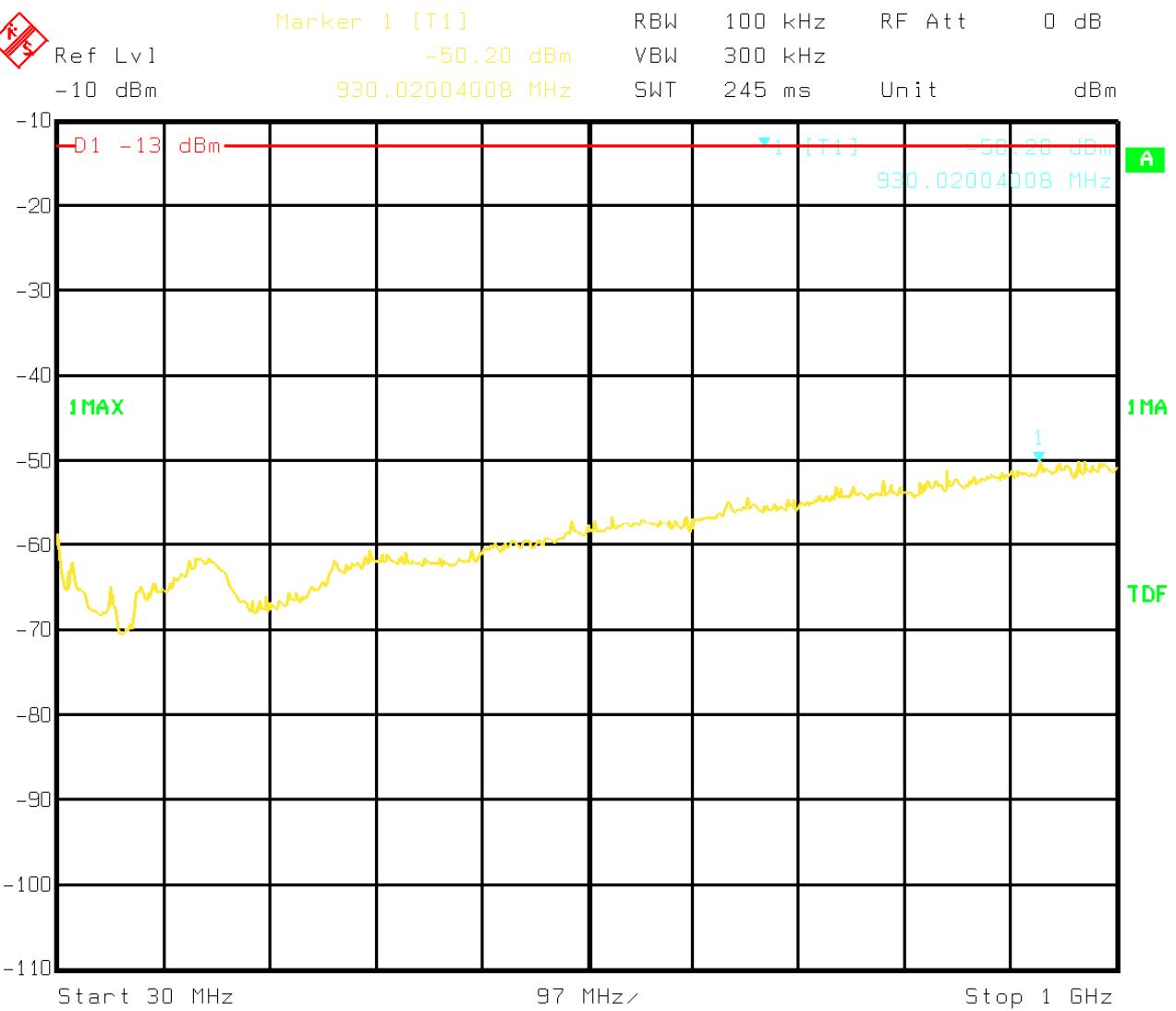
The D.U.T. was positioned according to the radiated emissions set-up

The D.U.T. antenna connector was terminated by a 50Ω shielded dummy load.

The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

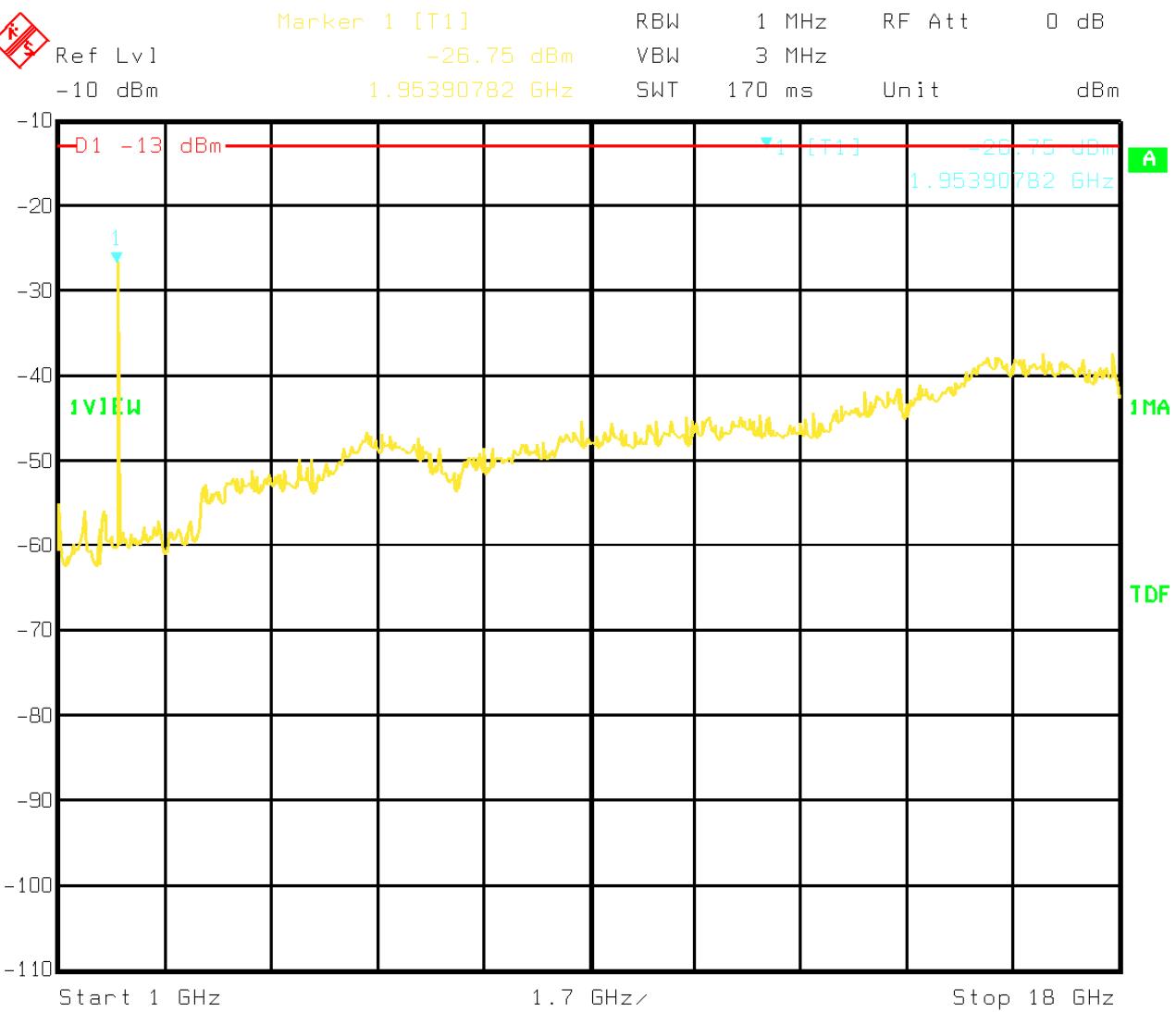
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Clause 24.238(a) Field strength of spurious radiation, continued




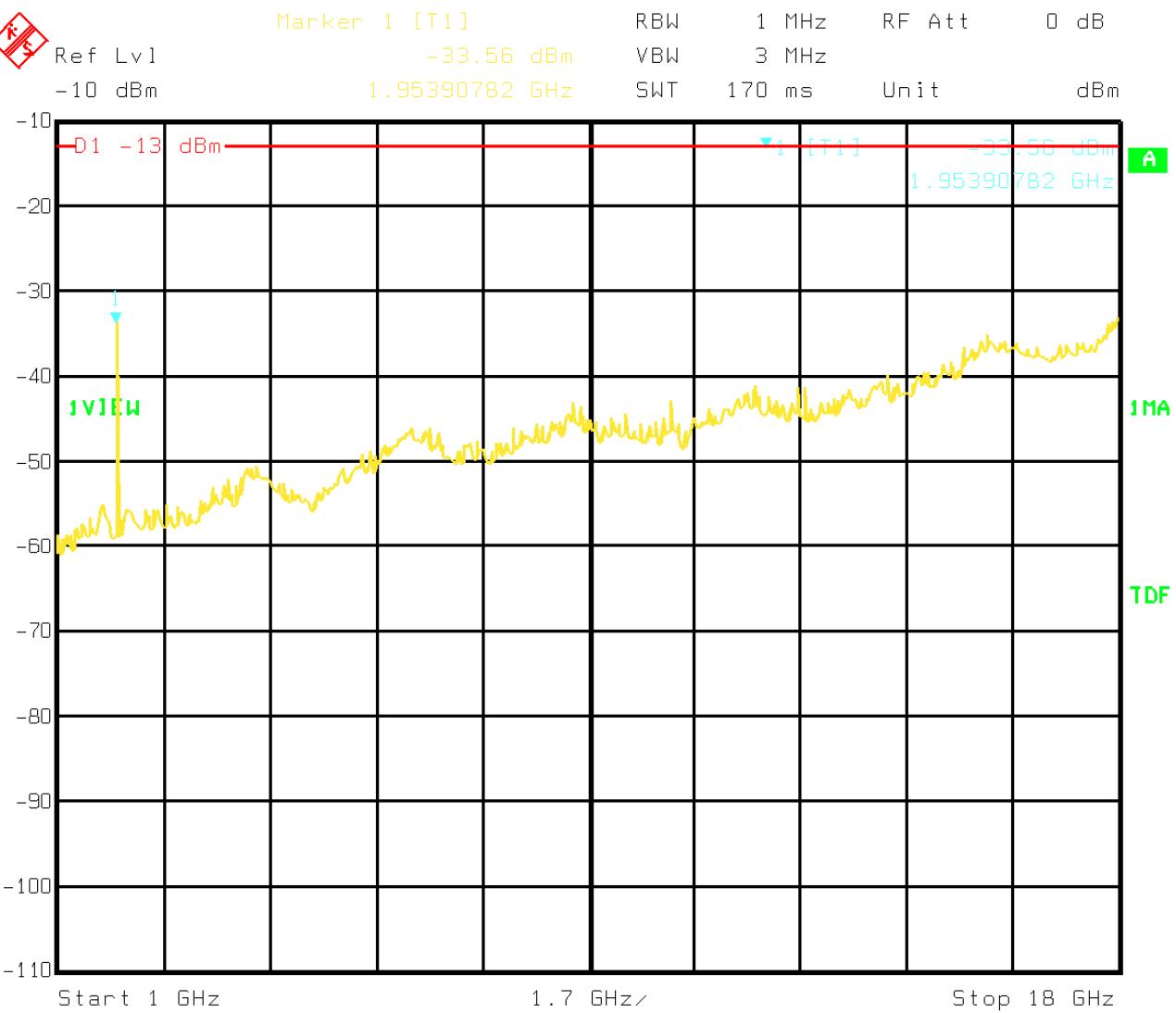
Date: 20. MAY 2015 06:31:32

30MHz-1GHz – V Pol



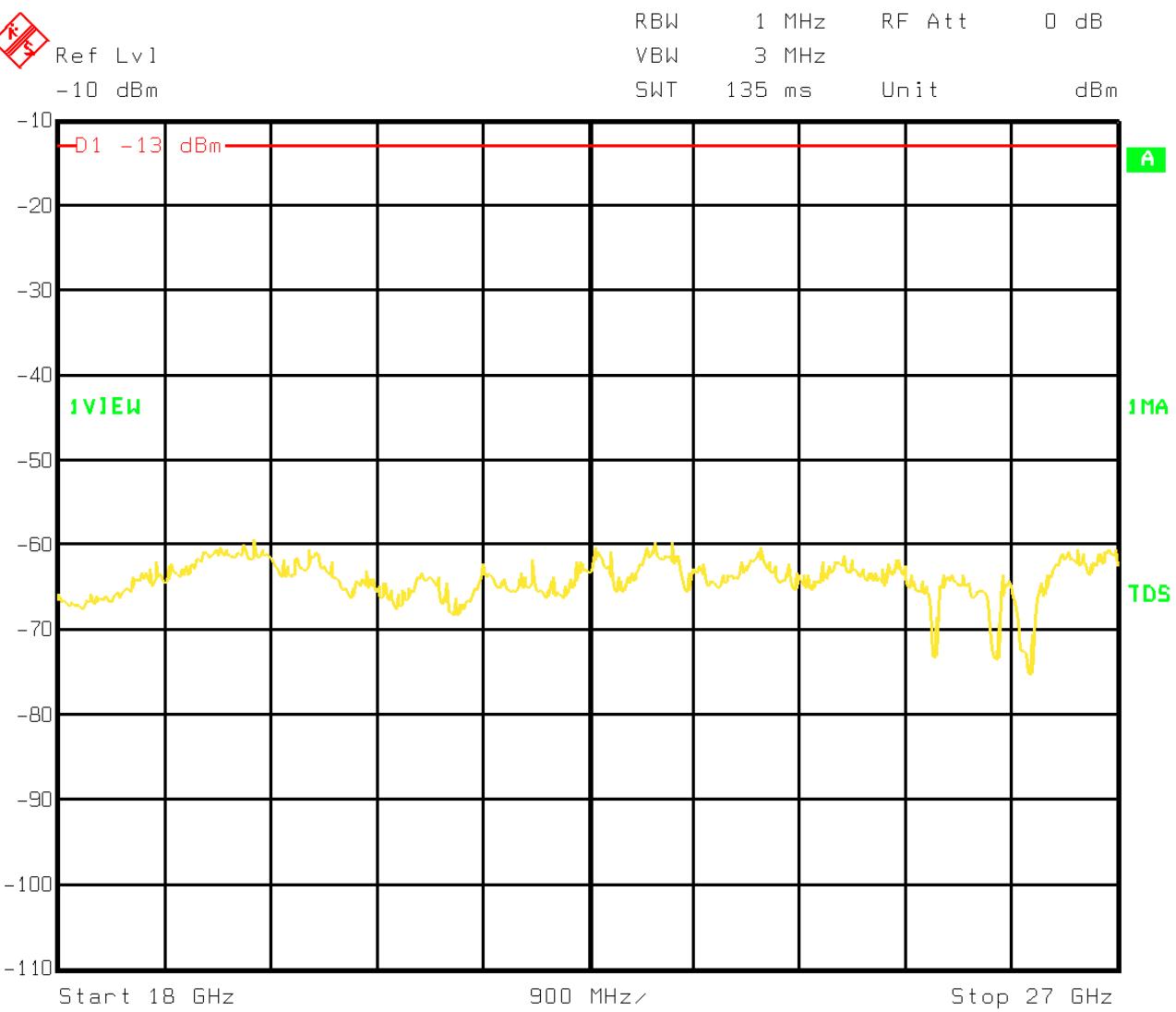
Date: 20. MAY 2015 11:14:09

1GHz-18GHz – H Pol



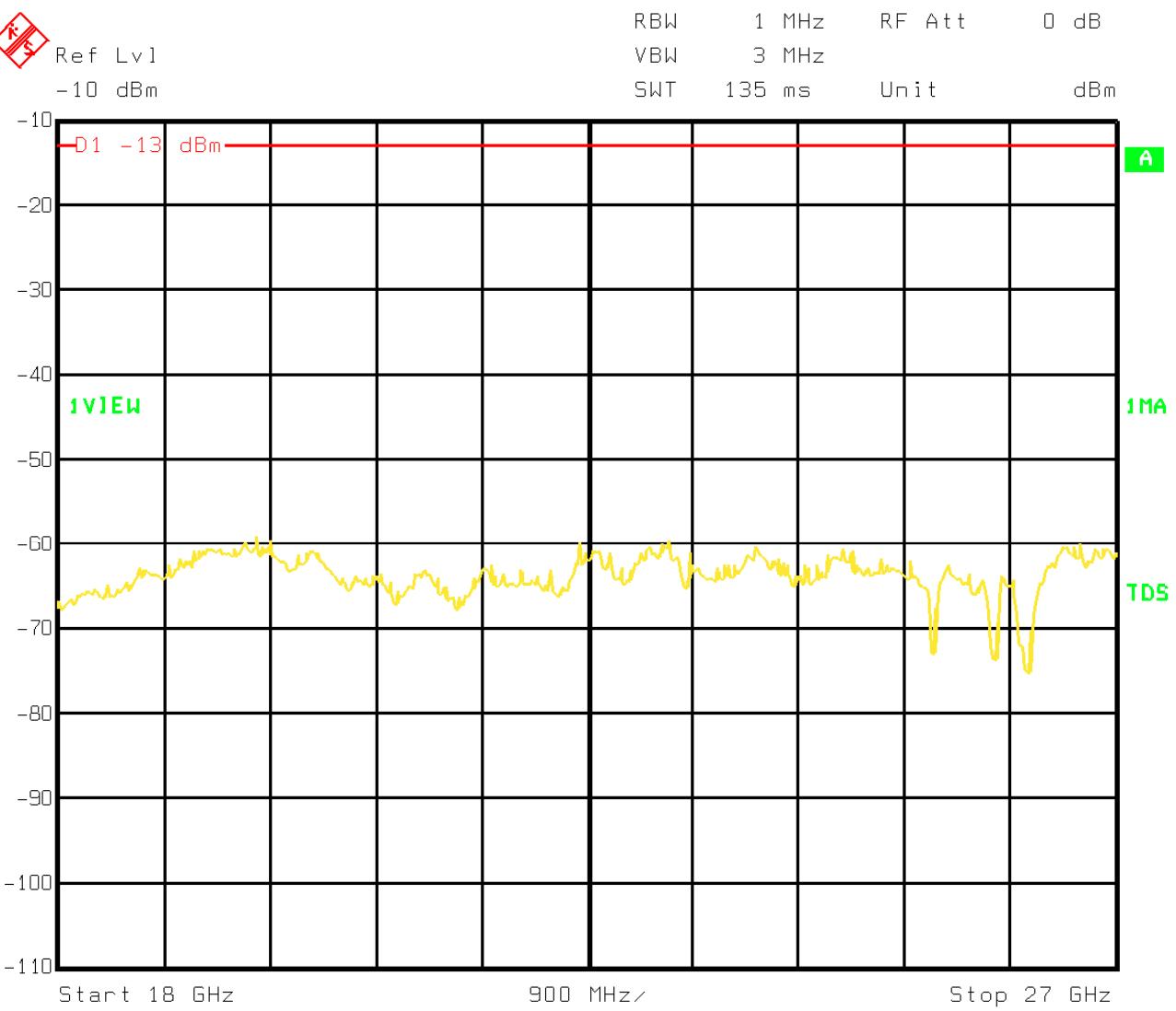
Date: 20. MAY 2015 11:18:42

1GHz-18GHz – V Pol



Date: 19.MAY 2015 11:54:50

18GHz-20GHz – H Pol



Date: 19.MAY 2015 11:57:57

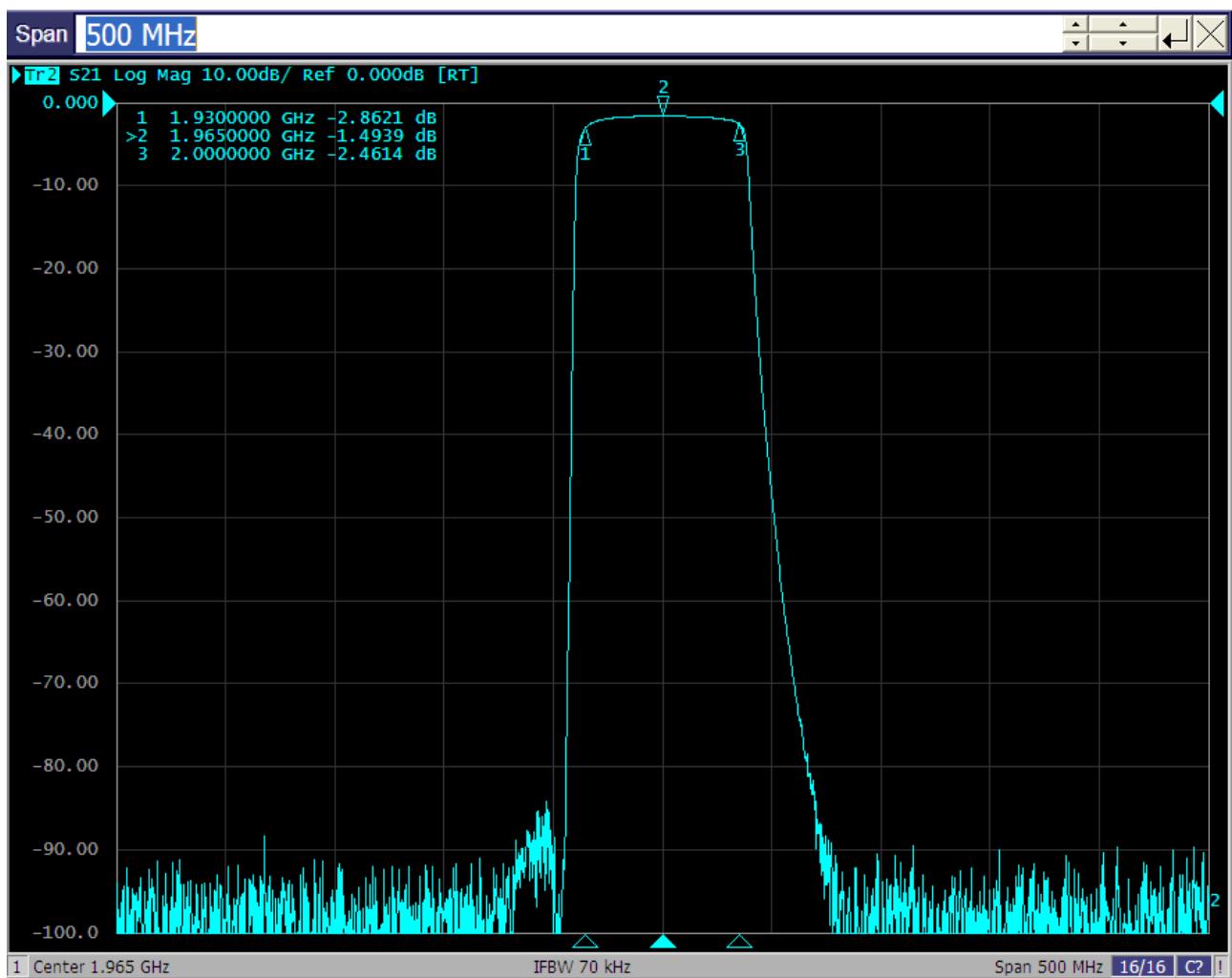
18GHz-20GHz – V Pol

Clause 935210 D02v02r01 (D.3)(l) Out of band rejection

Out of Band Rejection – Test for rejection of out of band signals.
Filter frequency response plots are acceptable.

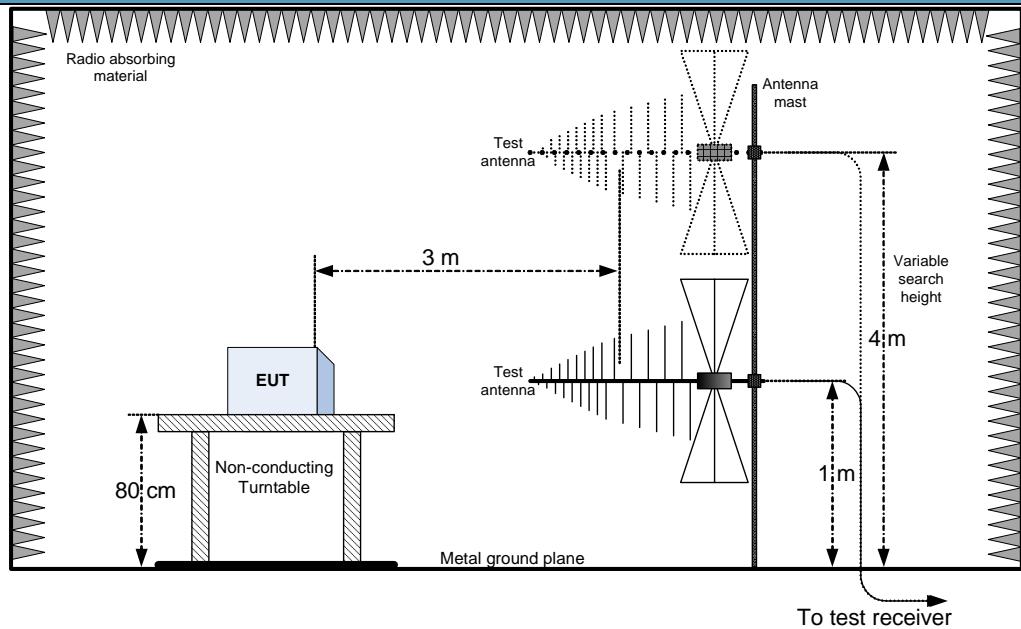
Test date: 2015-05-18

Test results: Pass

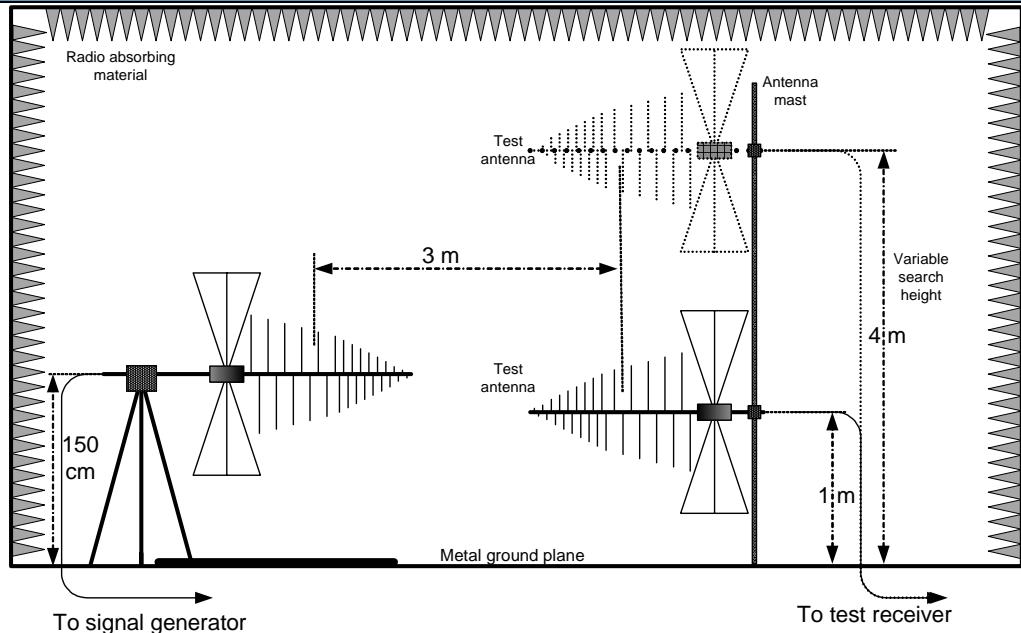


Appendix B: Block diagrams of test set-ups

Radiated emissions set-up



Substitution method set-up



Appendix C: EUT Photos

Photo Set up





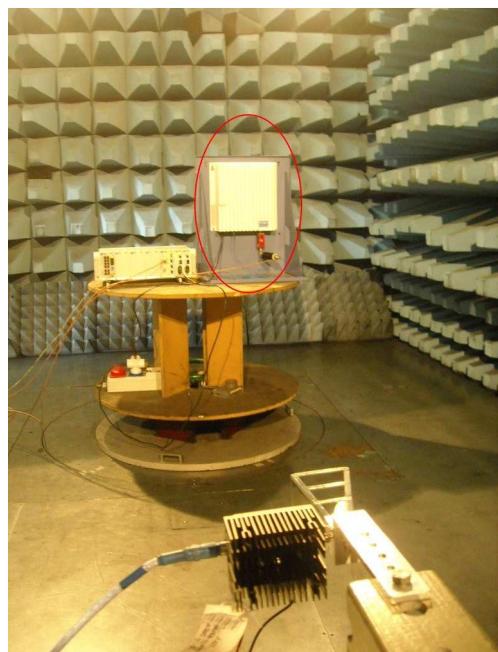


Photo EUT



