



| | |
|-----------------------------|---------------|
| Report Reference ID: | 332502-6TRFWL |
|-----------------------------|---------------|

| | |
|----------------------------|--|
| Test specification: | Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter A – General Part 24 – Personal Communication Services Subpart E – Broadband PCS |
|----------------------------|--|

| | |
|-------------------|--|
| Applicant: | TEKO Telecom Srl. Via Meucci, 24/a I-40024 Castel S. Pietro Terme (BO) (Italy) |
| Apparatus: | Medium Power Remote Unit |
| Model: | TRM7E8AE19HAWX23AT |
| FCC ID: | XM2-MP6B |

| | |
|----------------------------|---|
| Testing laboratory: | Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221 |
|----------------------------|---|

| | Name and title | Date |
|---------------------|---|------------|
| Tested by: |  <hr/> G. Curioni, Wireless/EMC Specialist | 06/29/2017 |
| Reviewed by: |  <hr/> P. Barbieri, Wireless/EMC Specialist | 06/29/2017 |

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Section 1: Report summary

1.1 Test specification

| | |
|-----------------------|---|
| Specifications | Part 24 Subpart E, Broadband PCS |
|-----------------------|---|

1.2 Statement of compliance

| | |
|-------------------|--|
| Compliance | <p>In the configuration tested the EUT was found compliant Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Canada Inc. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 24. Radiated tests were conducted in accordance with ANSI C63.4-2003.</p> |
|-------------------|--|

1.3 Exclusions

| | |
|-------------------|------|
| Exclusions | None |
|-------------------|------|

1.4 Registration number

| | |
|--------------------------------|------------------------------------|
| Test site FCC ID number | 176392 (3 m Semi anechoic chamber) |
|--------------------------------|------------------------------------|

1.5 Test report revision history

| Revision # | Details of changes made to test report |
|------------|--|
| TRF | Original report issued |
| R1TRF | ---- |

1.6 Limits of responsibility

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.

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Section 2: Summary of test results

| 2.1 FCC Part 24, test results | | | |
|---|-----------------------------|--|---------|
| Part | Methods | Test description | Verdict |
| | § 935210 D05v01r01 (3.2) | AGC threshold | Pass |
| | § 935210 D05v01r01 (3.3) | Out of band rejection | Pass |
| §24.238(b) | § 935210 D05v01r01 (3.4) | Occupied bandwidth | Pass |
| §24.232(a) | § 935210 D05v01r01 (3.5) | Peak output power at RF antenna connector | Pass |
| §24.238(a) | § 935210 D05v01r01 (3.6) | Spurious emissions at RF antenna connector | Pass |
| §24.238(a) | § 935210 D05v01r01 (3.8) | Radiated spurious emissions | Pass |
| §24.235 | § 935210 D05v01r01 (3.7) | Frequency stability | N/A a) |
| <p>Notes:</p> <p style="padding-left: 40px;">a) NOT APPLICABLE: Modulation/frequency conversion circuitry not in use. No frequency change in EUT (input and output have same frequency)</p> | | | |

Section 3: Equipment under test (EUT) and application details

3.1 Applicant details

| | | |
|---|------------------------------------|------------------------|
| Applicant complete business name | Name: | Teko Telecom Srl |
| | Federal Registration Number (FRN): | 0018963462 |
| | Grantee code | XM2 |
| Mailing address | Address: | Via Meucci, 24/a |
| | City: | Castel S. Pietro Terme |
| | Province/State: | Bologna |
| | Post code: | 40024 |
| | Country: | Italy |

3.2 Modular equipment

| | |
|---|--|
| a) Single modular approval | Single modular approval Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| b) Limited single modular approval | Limited single modular approval Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

3.3 Product details

| | | |
|---|--------------------|--------------------|
| FCC ID | Grantee code: | XM2 |
| | Product code: | -MP6B |
| Equipment class | B2I | |
| Description of product as it is marketed | Booster | |
| | Model name/number: | TRM7E8AE19HAWX23AT |
| | Serial number: | 1007061001 |

3.4 Application purpose

| | |
|----------------------------|--|
| Type of application | <input checked="" type="checkbox"/> Original certification <input type="checkbox"/> Change in identification of presently authorized equipment Original FCC ID: _____ Grant date: _____ <input type="checkbox"/> Class II permissive change or modification of presently authorized equipment |
|----------------------------|--|

Section 3: Equipment under test

3.5 Composite/related equipment

| | |
|-------------------------------|--|
| a) Composite equipment | The EUT is a composite device subject to an additional equipment authorization Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| b) Related equipment | The EUT is part of a system that operates with, or is marketed with, another device that requires an equipment authorization Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| c) Related FCC ID | If either of the above is "yes": <input type="checkbox"/> has been granted under the FCC ID(s) listed below: <input type="checkbox"/> is in the process of being filled under the FCC ID(s) listed below: <input type="checkbox"/> is pending with the FCC ID(s) listed below: <input type="checkbox"/> has a mix of pending and granted statuses under the FCC ID(s) listed below: i FCC ID: ii FCC ID: |

3.6 Sample information

| | |
|--------------------------------|------------|
| Receipt date: | 06/26/2017 |
| Nemko sample ID number: | ----- |

3.7 EUT technical specifications

| | |
|-----------------------------|---|
| Operating band: | Down Link 1930-1995 MHz; Up Link 1850-1915 MHz |
| Operating frequency: | 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: 33dBm (2W) Up Link: N.A. (The EUT does not transmit over the air in the up-link direction) |
| Gain | Down Link: 38dB Up Link: N.A. (The EUT does not transmit over the air in the up-link direction) |
| Antenna type: | External Antenna is not provided, equipment that has an external 50 Ω RF connector |
| Power source: | 100-240 Vac |

Section 3: Equipment under test

3.8 Accessories and support equipment
 The following information identifies accessories 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: | 110942253 |
| 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: | 081063004 |
| Nemko sample number: | ----- |
| Connection port: | ----- |
| Cable length and type: | ----- |
| | |

| 3.9 Operation of the EUT during testing | |
|---|--|
| Details: | In down-link direction, normal working at max gain with max RF power output. |

3.10 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:



```

graph LR
    A[Signal modulated Generator] --> B[EUT]
    B --> C[Spectrum Analyzer]
    
```

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.

Section 4: Engineering considerations

4.1 Modifications incorporated in the EUT

Modifications

Modifications performed to the EUT during this assessment
None Yes , performed by Client or Nemko
Details:

4.2 Deviations from laboratory tests procedures

Deviations

Deviations from laboratory test procedures
None Yes - details are listed below:

4.3 Technical judgment

Judgment

None

Section 5: Test conditions

5.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

5.2 Test conditions, power source and ambient temperatures

| | |
|--|--|
| <p>Normal temperature, humidity and air pressure test conditions</p> | <p>Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa</p> <p>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.</p> |
| <p>Power supply range:</p> | <p>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.</p> |

Section 5: Test conditions, continued

5.3 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.

5.4 Test equipment

| Equipment | Manufacturer | Model No. | Asset/Serial No. | Next cal. |
|---------------------------------------|-----------------|---------------------------|------------------|-----------|
| Vector Signal Generator | Agilent | N5172B EXG | MY53051238 | Jan 2018 |
| Vector Signal Generator | Agilent | E4438C ESG | MY45094485 | Ago 2019 |
| Spectrum Analyzer | Agilent | N9030A PXA | MY53120882 | Nov 2017 |
| Network Analyzer | Agilent | E5071C ENA | MY46106183 | Ago 2017 |
| V-network | R & S | ESH2-Z5 | 872 460/041 | 10/2017 |
| Trilog Broad Band Antenna 25-2000 MHz | Schwarzbeck | VULB 9168 | VULB 9168-242 | 06/2018 |
| Trilog Broad Band Antenna 25-8000 MHz | Schwarzbeck | VULB 9162 | VULB 9162-25 | 07/2018 |
| Antenna 1-18 GHz | Schwarzbeck | STLP 9148 | STPL 9148-123 | 06/2018 |
| Antenna horn | A.H.System Inc. | SAS-574 | 061106A40 | 10/2017 |
| Preamplifier 18-40 GHz | Miteq | JS44 | 1648665 | 12/2017 |
| Broadband preamplifier 1-18 GHz | Schwarzbeck | BBV 9718 | 9718-137 | 12/2017 |
| EMI receiver 20 Hz ÷ 8 GHz | R&S | ESU8 | 100202 | 04/2018 |
| EMI receiver 20 Hz ÷ 3 GHz | R&S | ESCI | 100888 | 08/2017 |
| 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 | 01/2018 |
| Semi-anechoic chamber | Nemko | 10m semi-anechoic chamber | 530 | 10/2018 |
| 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 |

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use
 (*) Equipment supplied by manufacturer's

Appendix A: Test results

Clause 935210 D05v01 (3.2) AGC threshold

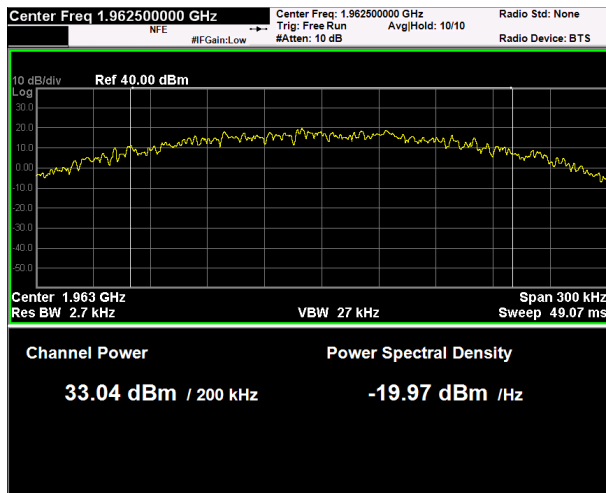
Measure of EUT AGC Threshold

Test date: [06/27/2017](#)
 Test results: **Pass**

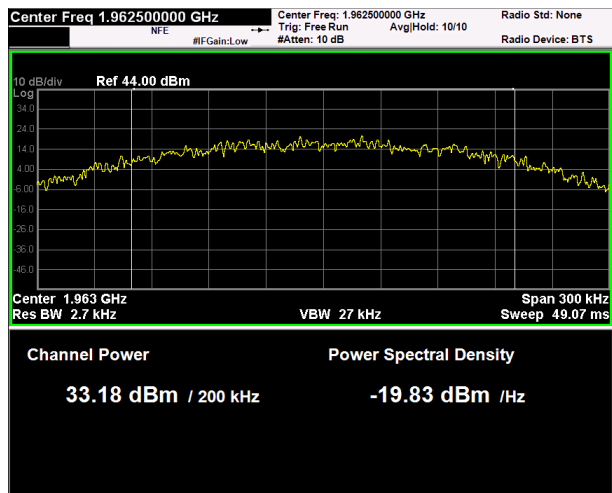
Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

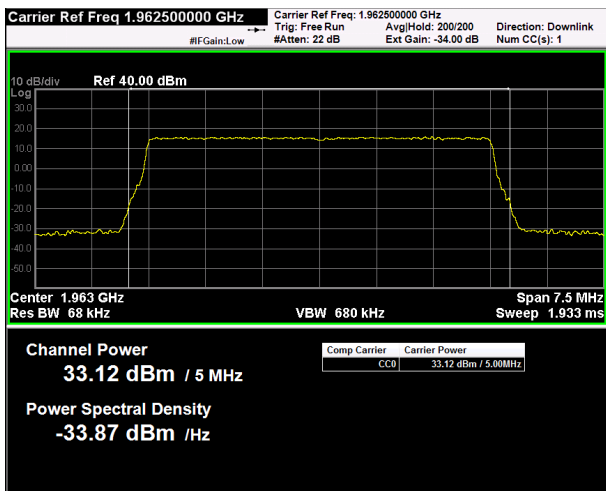
Test data



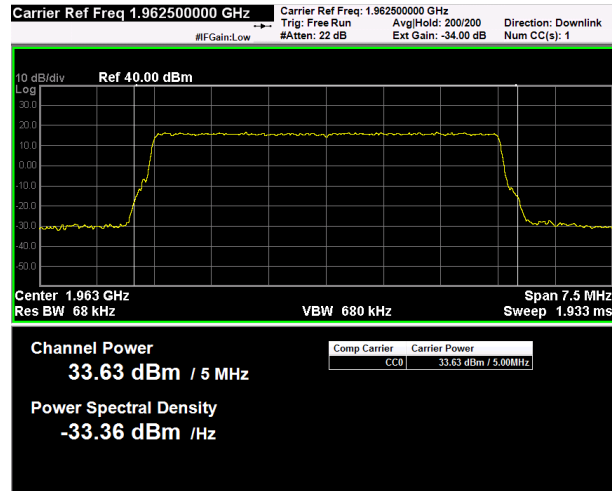
MSK signal, nominal input signal



MSK signal, nominal input signal +1 dB



AWGN signal, nominal input signal



AWGN signal, nominal input signal +1 dB

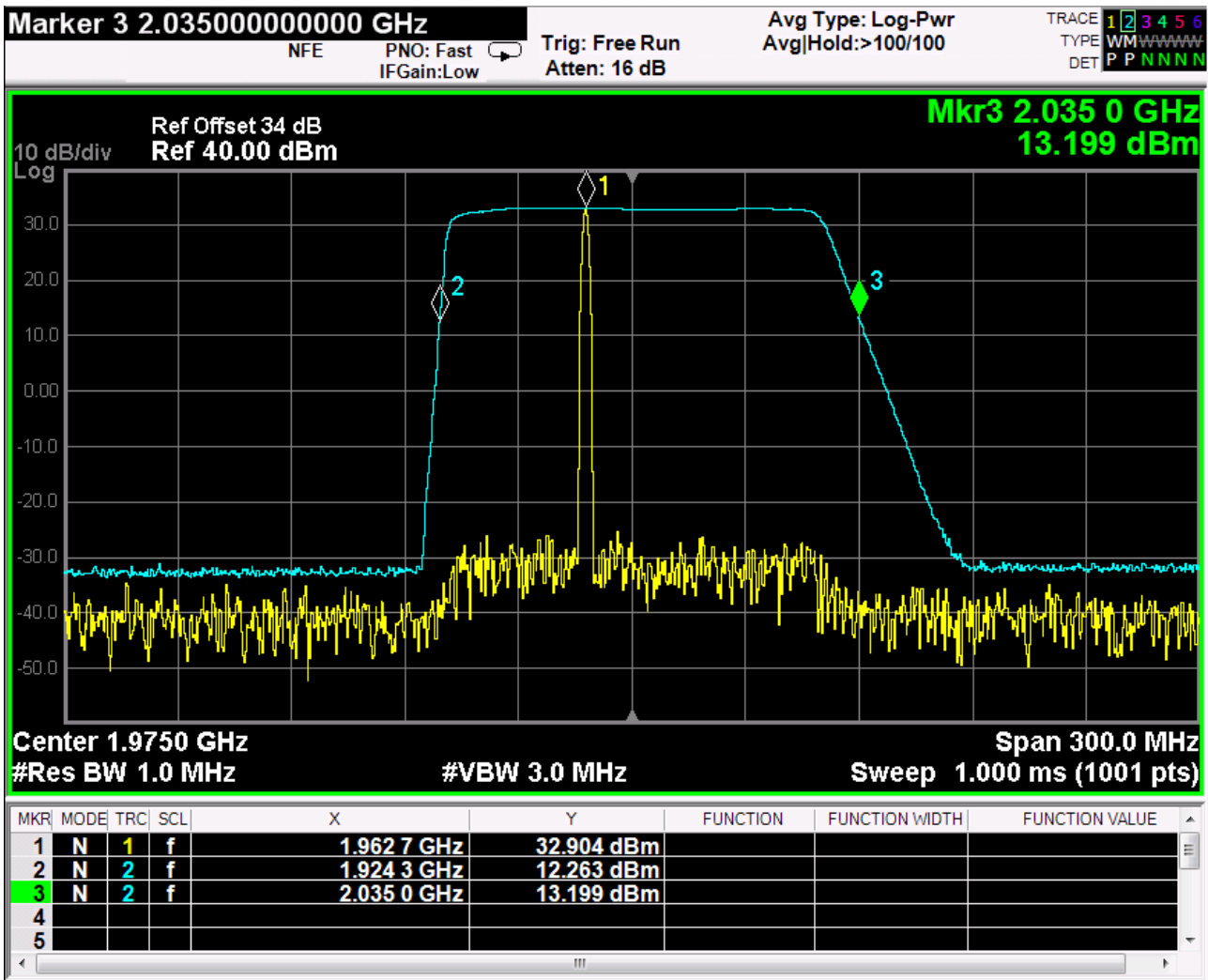
Clause 935210 D05v01 (3.3) Out of band rejection

Out of Band Rejection – Test for rejection of out of band signals.

Test date: [06/27/2017](#)
 Test results: **Pass**

Special notes
 –

Test data



Clause 24.238(b) 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.

Test date: 06/27/2017

Test results: Pass

Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

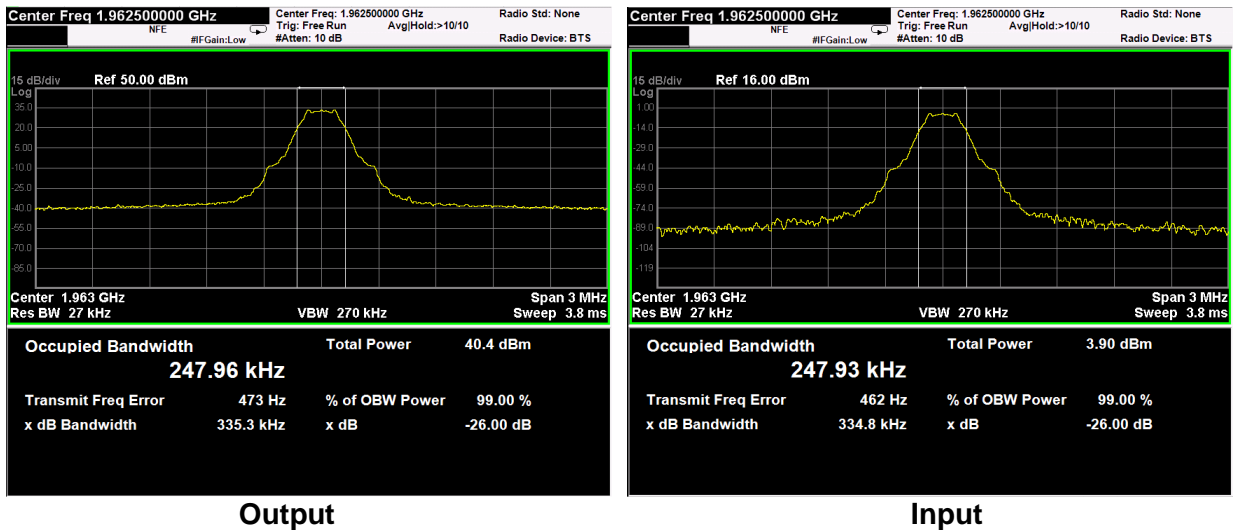
Clause 24.238(b) Occupied bandwidth, continued

Test data

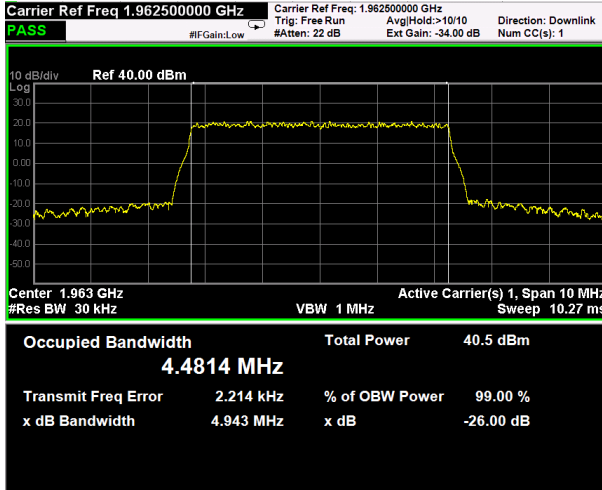
MSK signal, nominal input signal



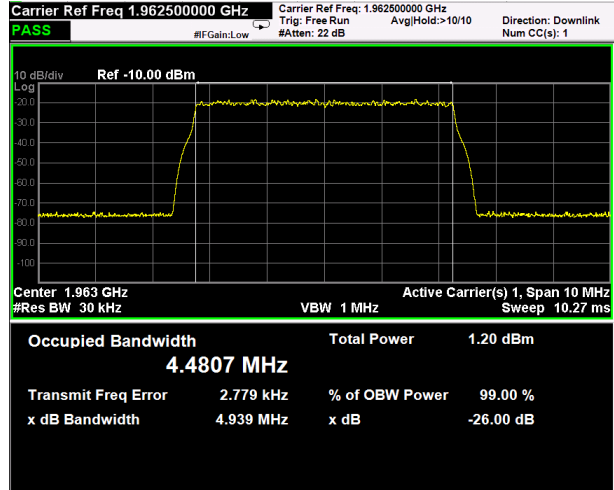
MSK signal, nominal input signal + 3dB



AWGN signal, nominal input signal

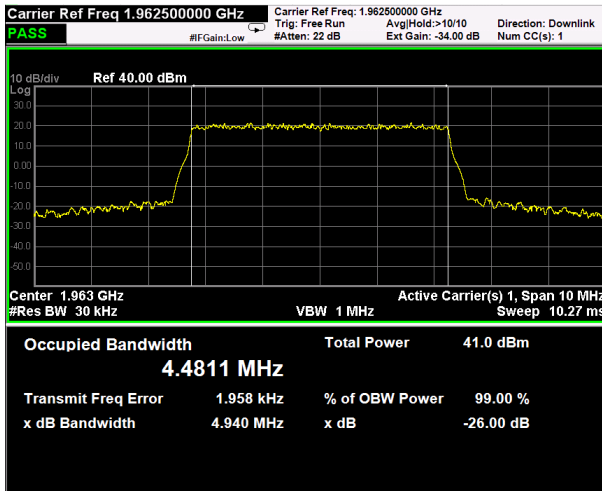


Output

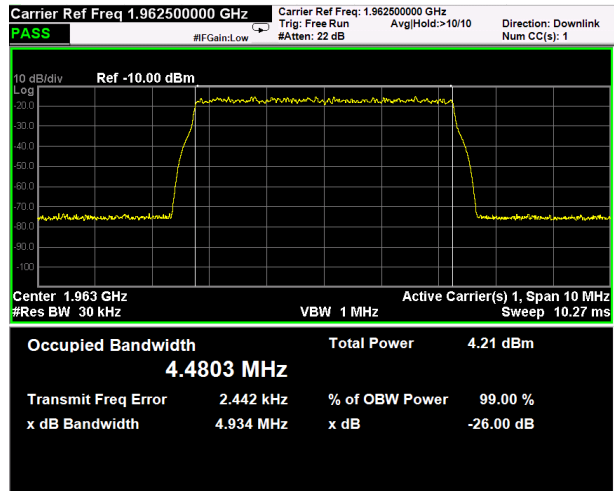


Input

AWGN signal, nominal input signal + 3dB



Output



Input

Clause 24.232(a) Peak output power at RF antenna connector

(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: [06/27/2017](#)

Test results: [Pass](#)

Special notes

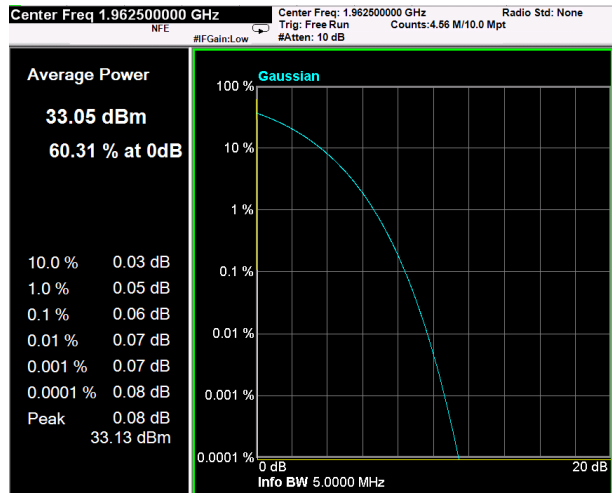
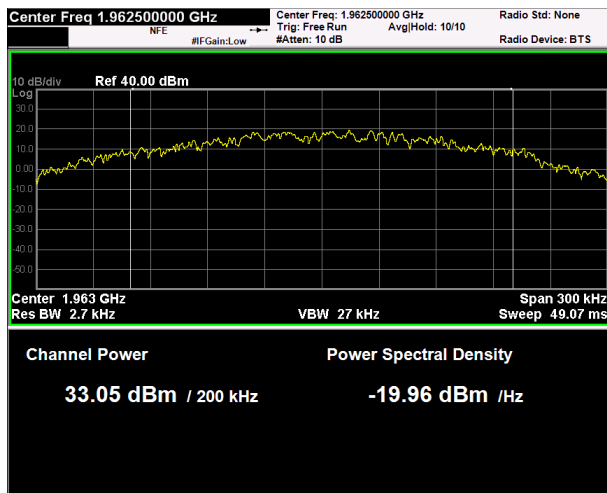
- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

Clause 24.232(a) Peak output power at RF antenna connector

Test data

MSK signal, nominal input signal

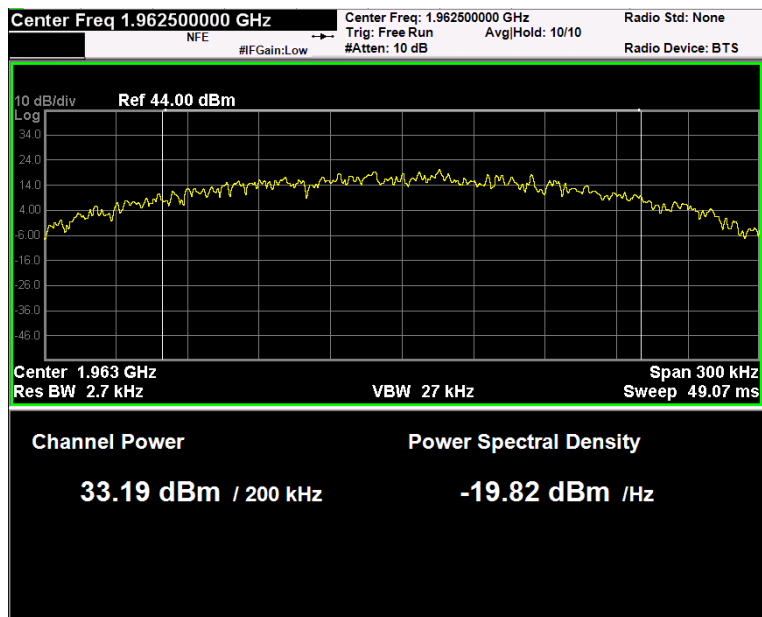
| Test data | | | | | |
|-----------|-------------------|-----------------|-----------------------|-----------------------------|----------|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) | PAR (dB) |
| Down-link | MSK (GSM, 200kHz) | 1962.5 | 33.05 | 2,02 | 0,08 |



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.

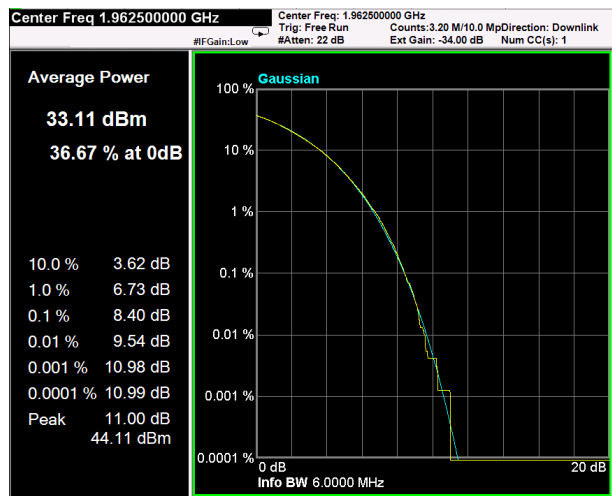
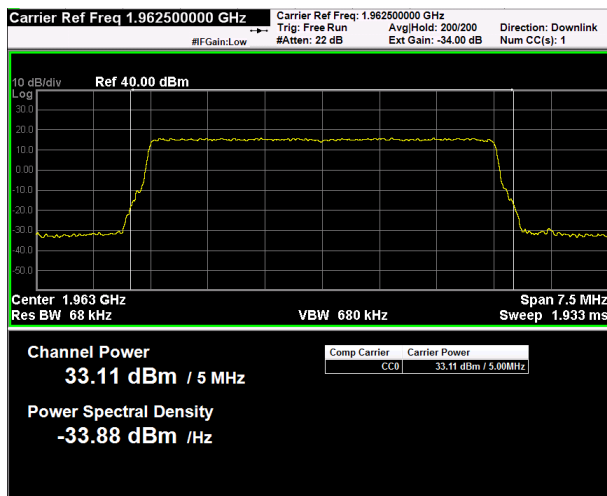
MSK signal, nominal input signal + 3dB

| Test data | | | | |
|-----------|-------------------|-----------------|-----------------------|-----------------------------|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) |
| Down-link | MSK (GSM, 200kHz) | 1962.5 | 33.19 | 2.08 |



AWGN signal, nominal input signal

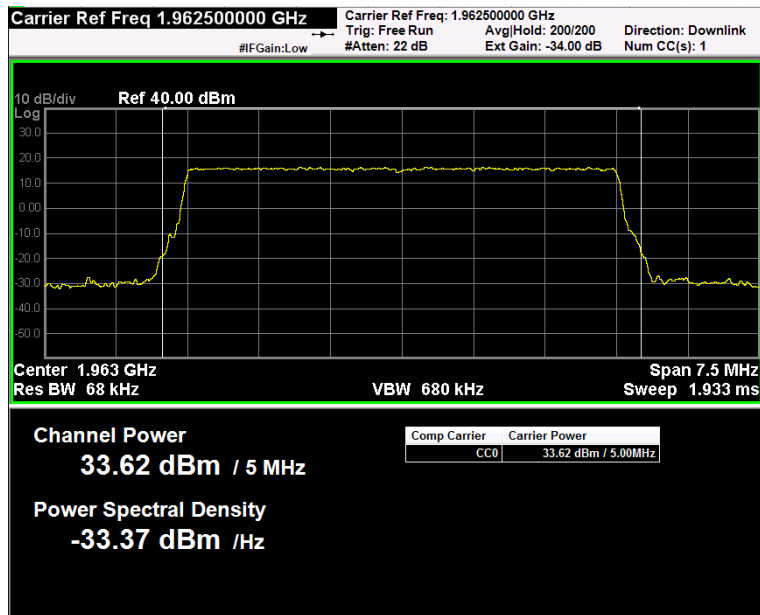
| Test data | | | | | | |
|-----------|------------------|-----------------|-----------------------|-----------------------------|-------------------------|----------|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) | RF output Power (W/MHz) | PAR (dB) |
| Down-link | AWGN (LTE, 5MHz) | 1962.5 | 33.11 | 2.05 | 0.41 | 11.00 |



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.

AWGN signal, nominal input signal + 3dB

| Test data | | | | | |
|-----------|------------------|-----------------|-----------------------|-----------------------------|-------------------------|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) | RF output Power (W/MHz) |
| Down-link | AWGN (LTE, 5MHz) | 1962.5 | 33.62 | 2.30 | 0.46 |



Clause 24.238(a) Spurious emissions at RF antenna connector

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 $43 + 10 \text{ Log (P) dB}$.

Test date: 06/27/2017

Test results: Pass

Special notes

- Narrowband amplifiers: MSK test signal used (GSM-TDMA signal)
- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

Clause 24.238(a) Spurious emissions at RF antenna connector, continued

Test data

See Plots below

Spurious emissions measurement results:

| Frequency (MHz) | Spurious emission (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|-------------|-------------|
| Low channel | | | |
| First channel | Negligible | -13 | |
| | | | |
| Mid channel | | | |
| 1962,5 MHz | Negligible | -13 | |
| | | | |
| High channel | | | |
| Last channel | Negligible | -13 | |
| | | | |

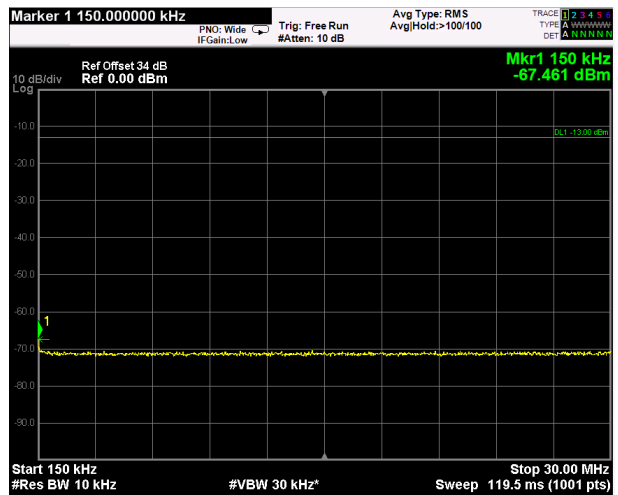
Test data: spurious emissions at antenna terminal

MSK signal

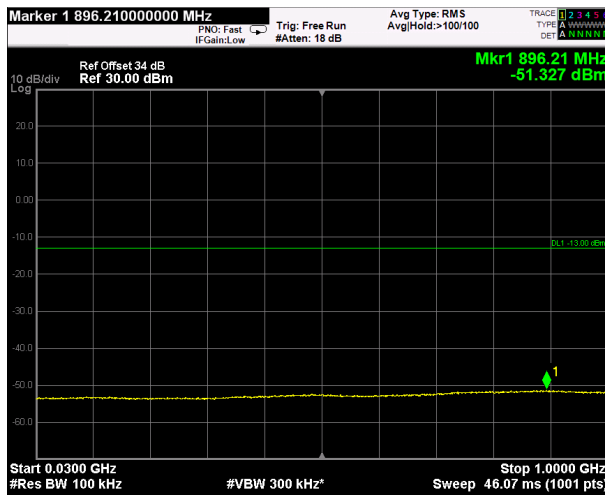
(Plots are referred to modulated carrier at the Middle Channel)



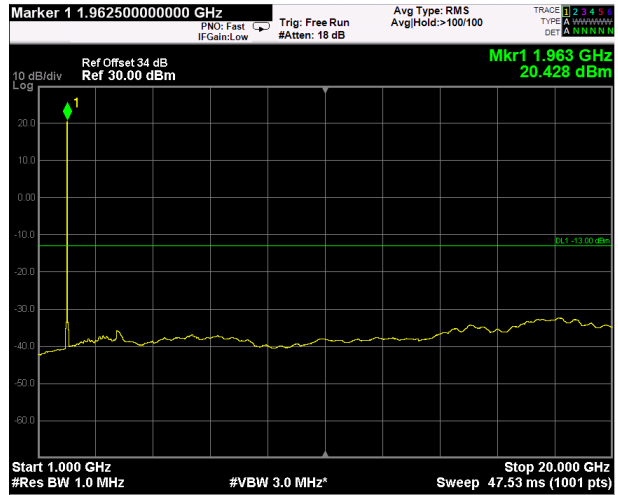
9kHz-150kHz



150kHz-30MHz



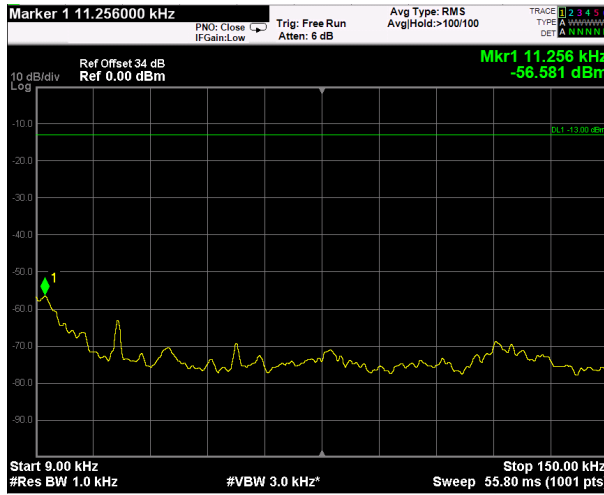
30MHz-1GHz



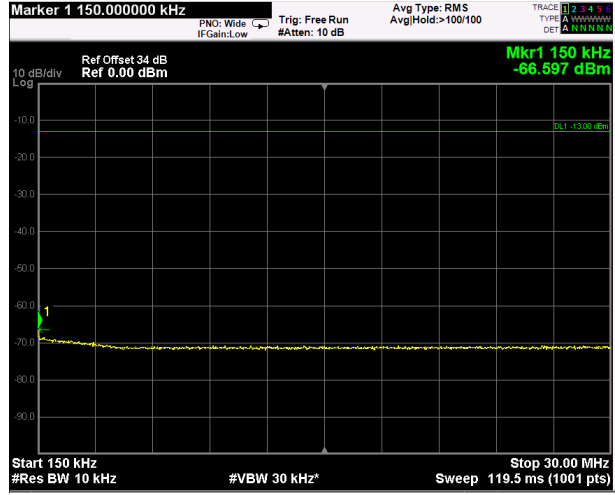
1GHz-20GHz

AWGN signal

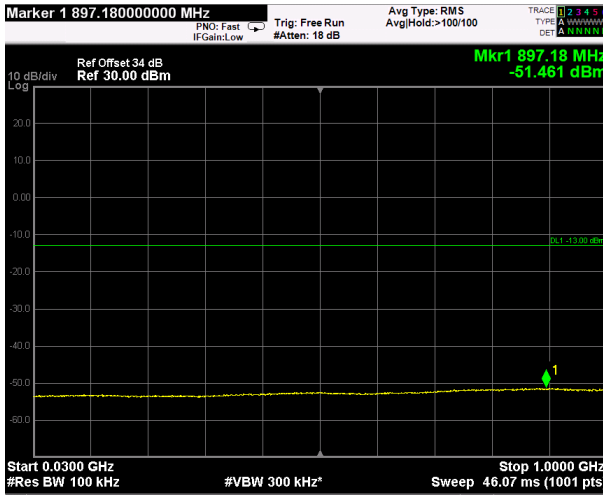
(Plots are referred to modulated carrier at the Middle Channel)



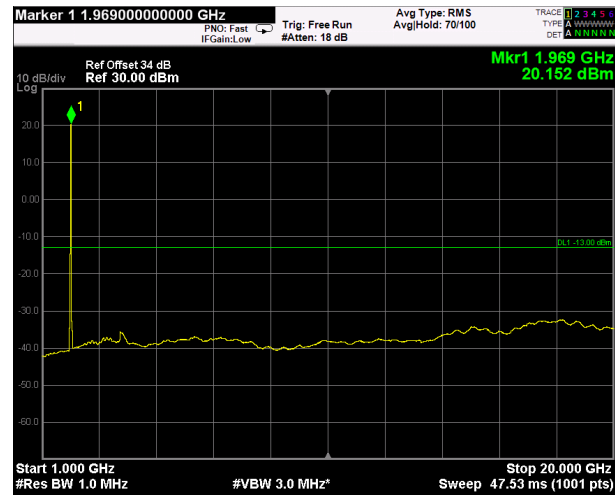
9kHz-150kHz



150kHz-30MHz



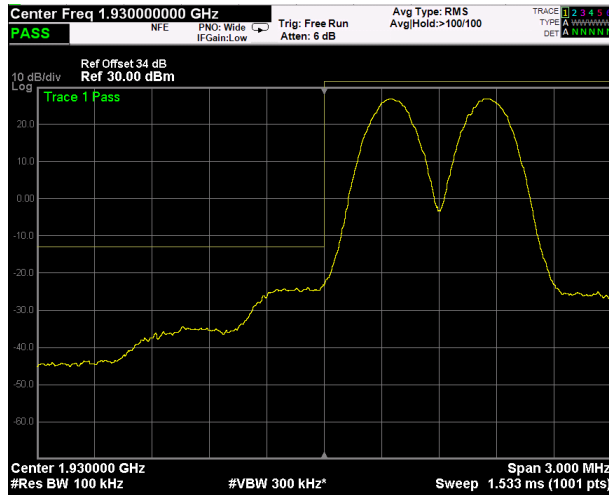
30MHz-1GHz



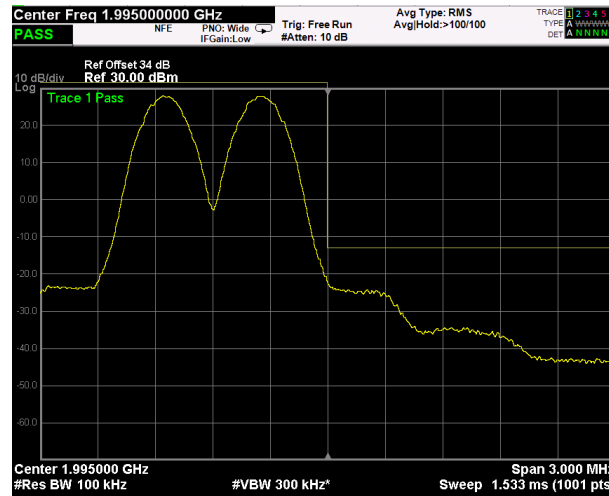
1GHz-20GHz

Test data, continued: band edges Inter modulation

MSK signal, nominal input signal

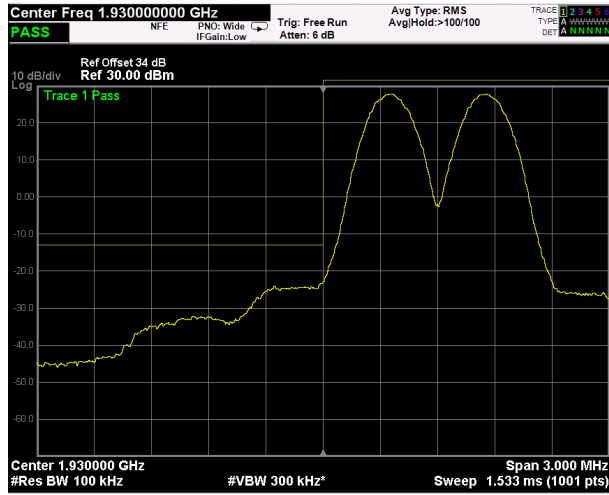


Low Band Edge

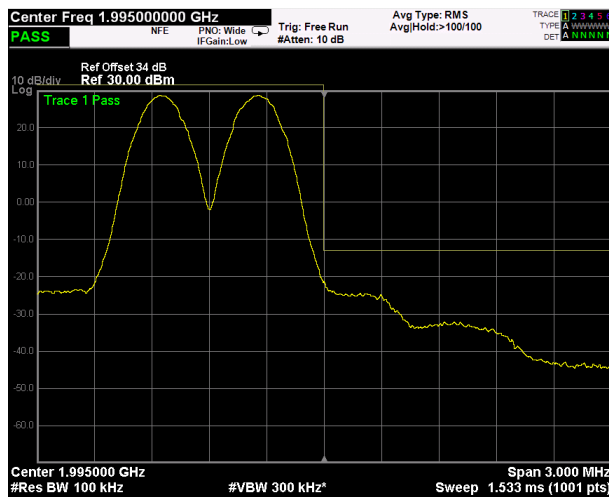


High Band Edge

MSK signal, nominal input signal + 3dB

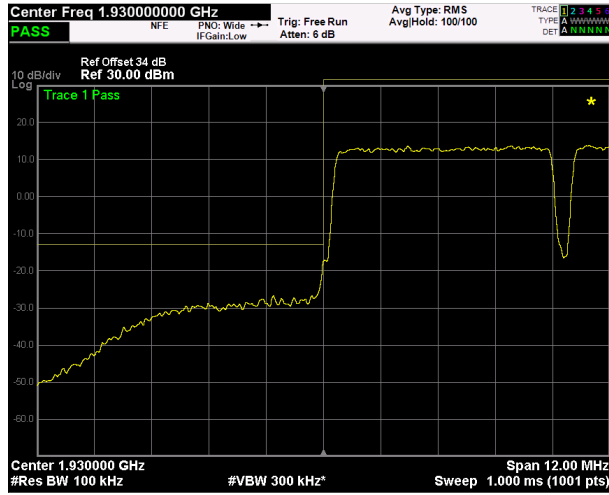


Low Band Edge

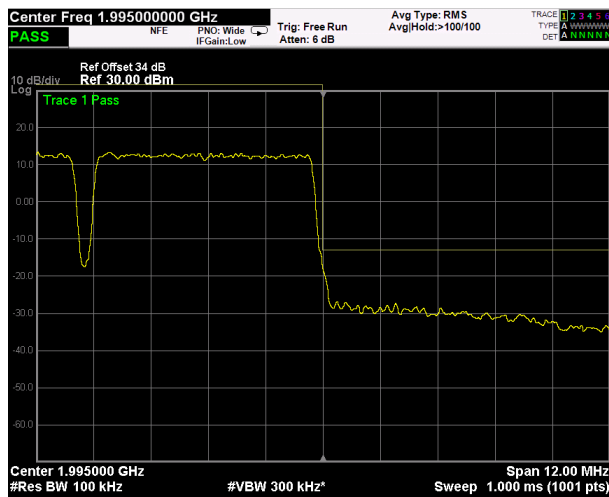


High Band Edge

AWGN signal, nominal input signal

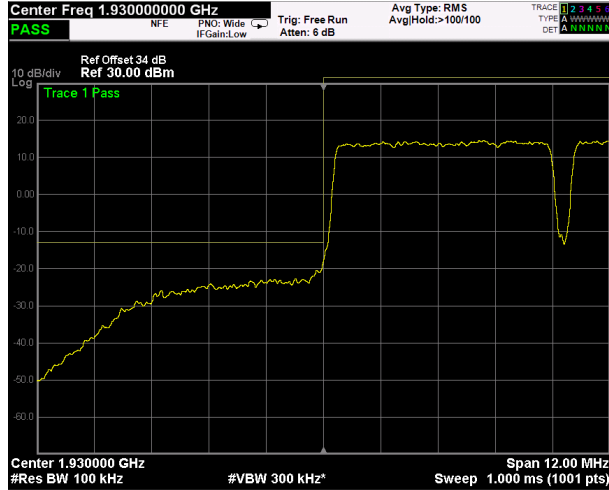


Low Band Edge

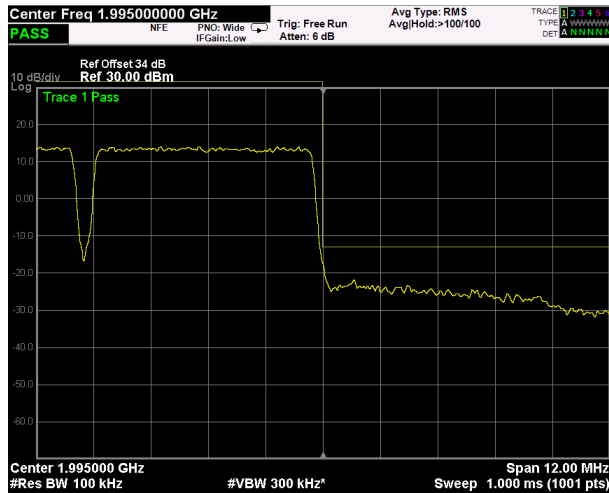


High Band Edge

AWGN signal, nominal input signal + 3dB



Low Band Edge



High Band Edge

Clause 24.238(a) Radiated Spurious emissions

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 $43 + 10 \text{ Log (P) dB}$.

Test date: 06/26/2017

Test results: Pass

Special notes

Clause 24.238(a) Radiated spurious emissions, continued

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 50 Ω 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.

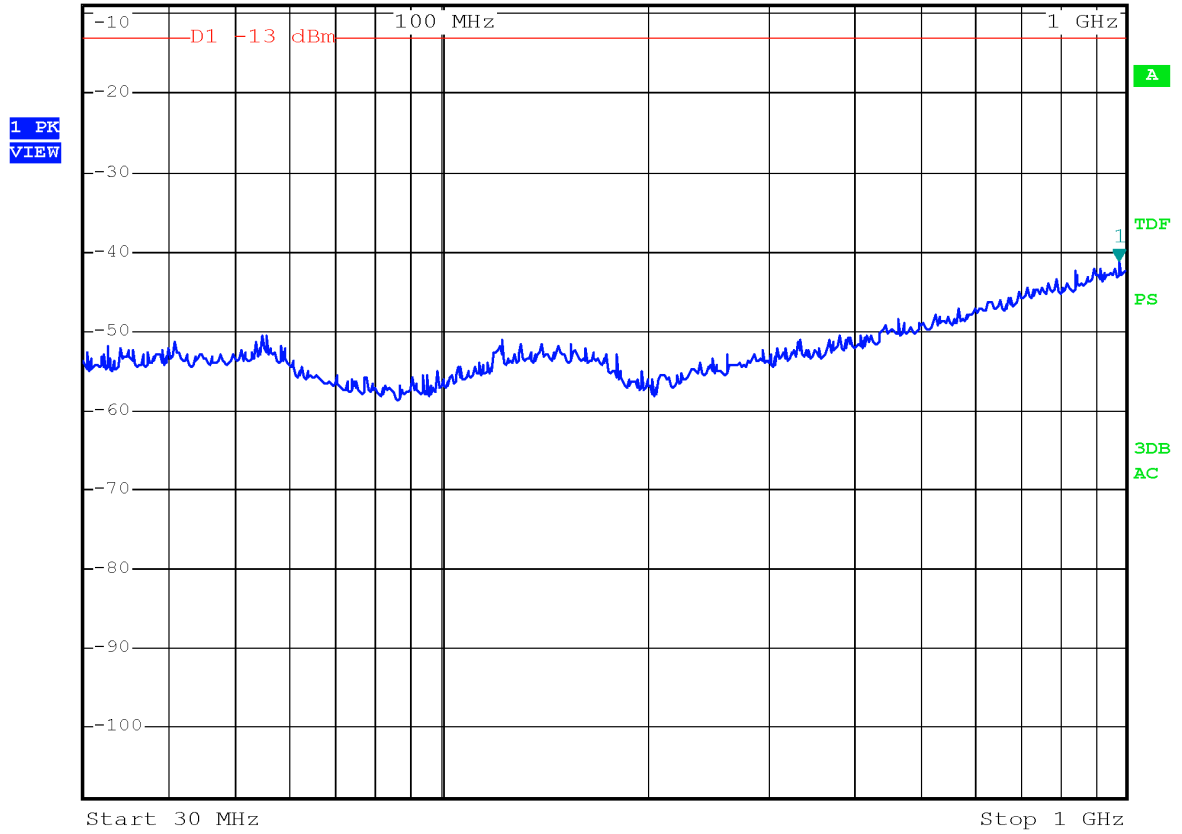
Spurious emissions measurement results:

| Frequency (MHz) | Polarization. V/H | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|-------------------|-------------------------|----------------|-------------|
| Low channel | | | | |
| | | | | |
| | | | | |
| | | | | |
| Mid channel | | | | |
| | | | | |
| | | | | |
| | | | | |
| High channel | | | | |
| | | | | |
| | | | | |
| | | | | |

Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.

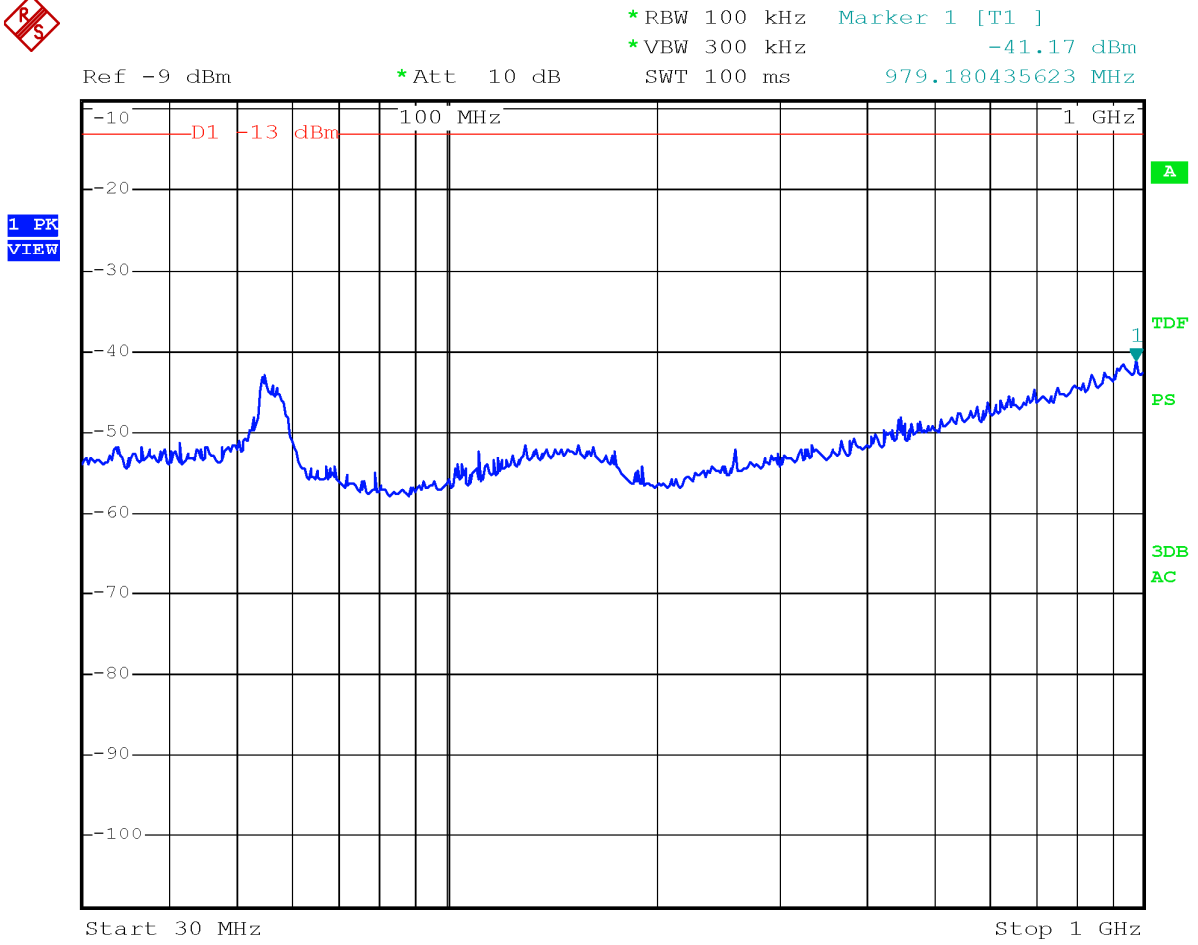


Ref -9 dBm *Att 10 dB *RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -41.28 dBm
SWT 100 ms 979.180435623 MHz



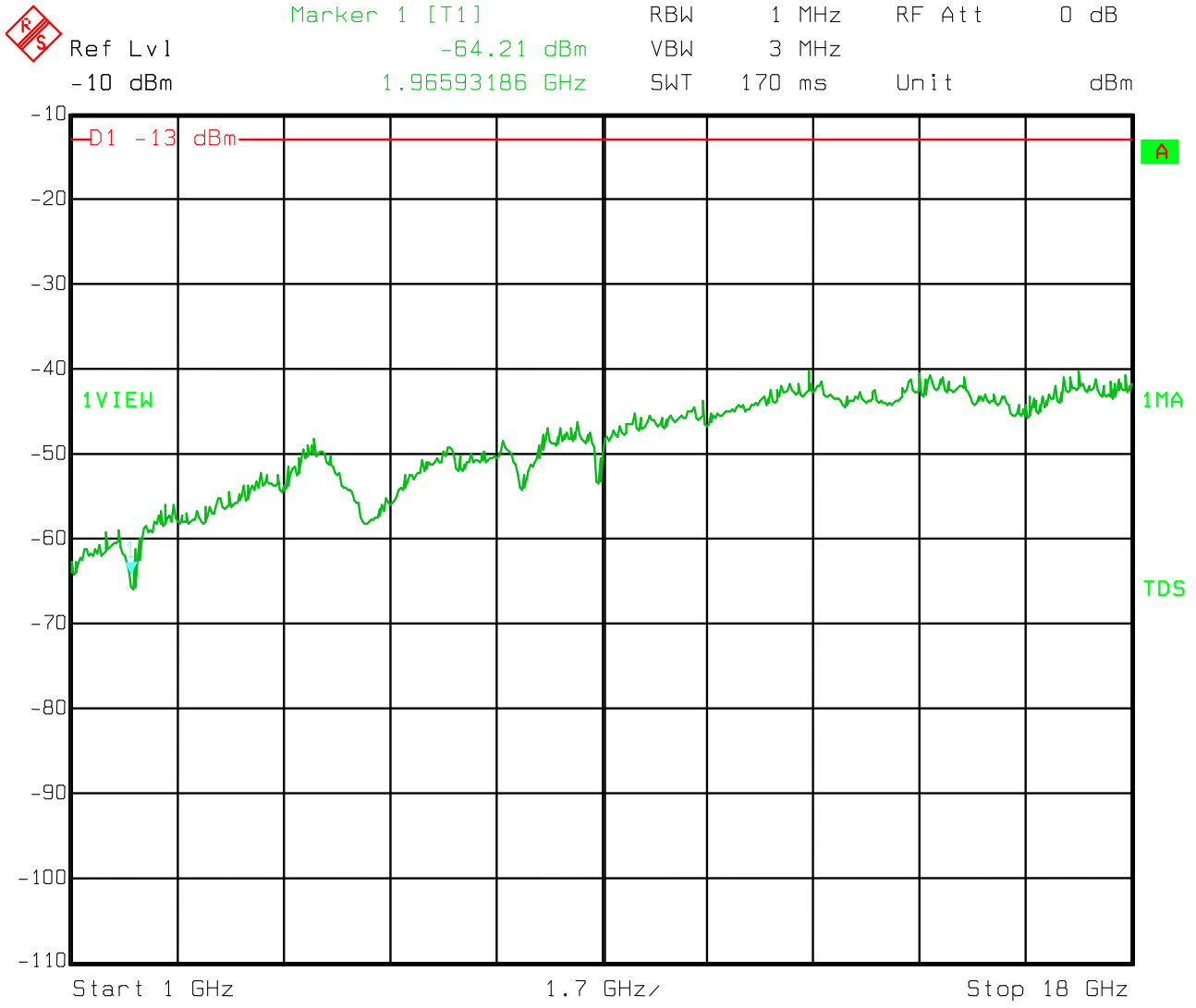
Date: 26.JUN.2017 15:56:52

30MHz-1GHz – H Pol



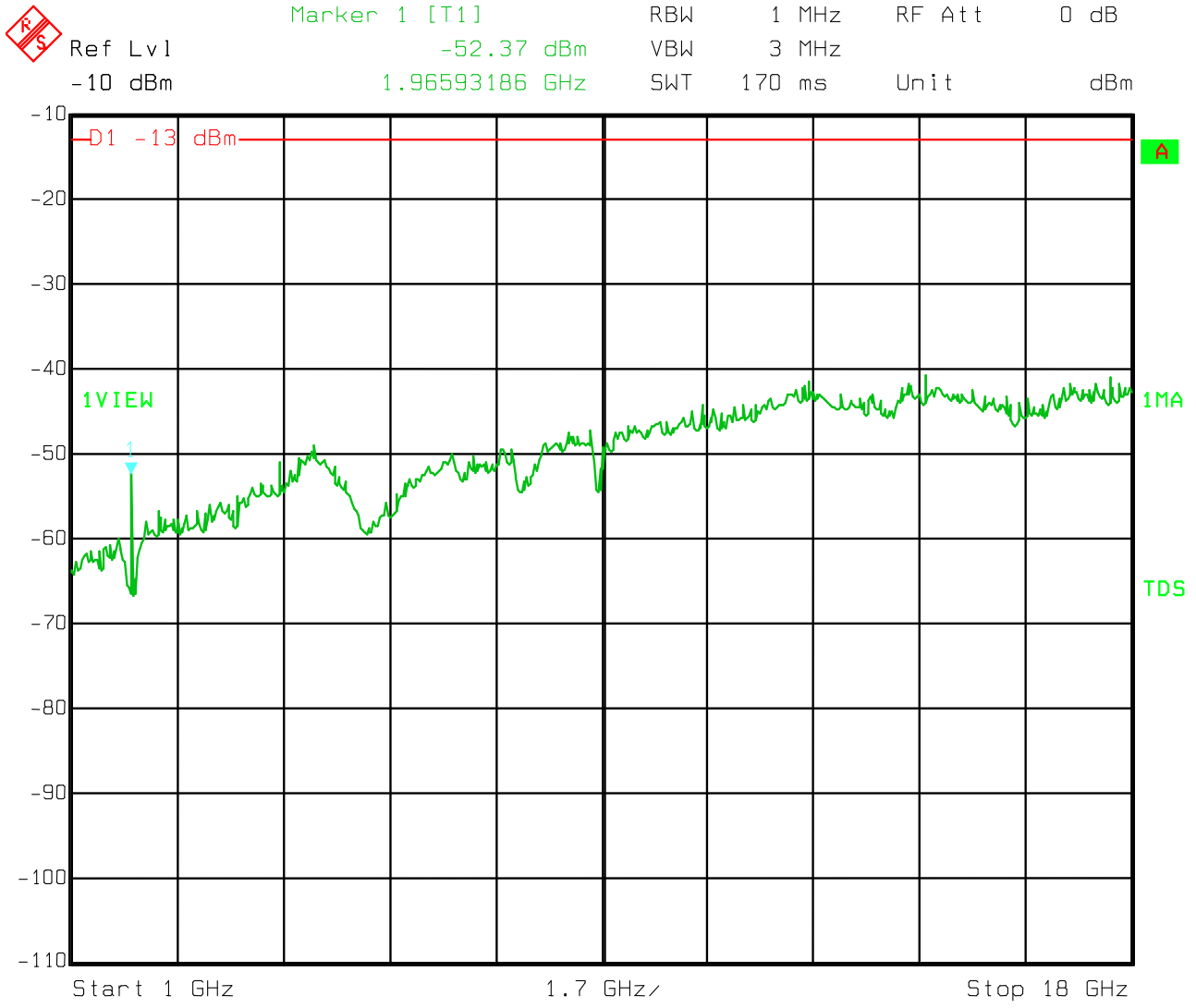
Date: 26.JUN.2017 15:55:32

30MHz-1GHz – V Pol



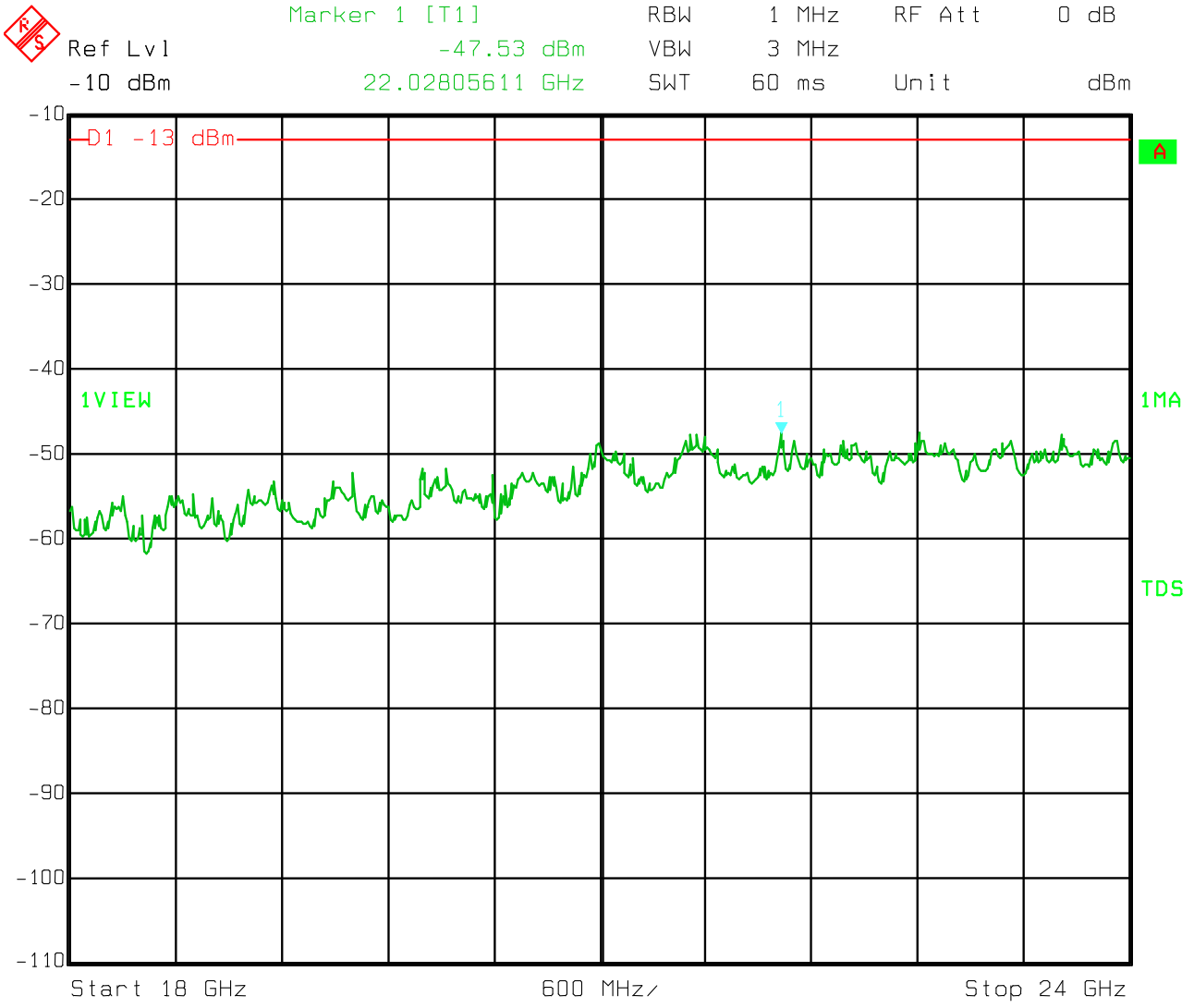
Date: 26.JUN.2017 10:38:00

1GHz-18GHz – H Pol



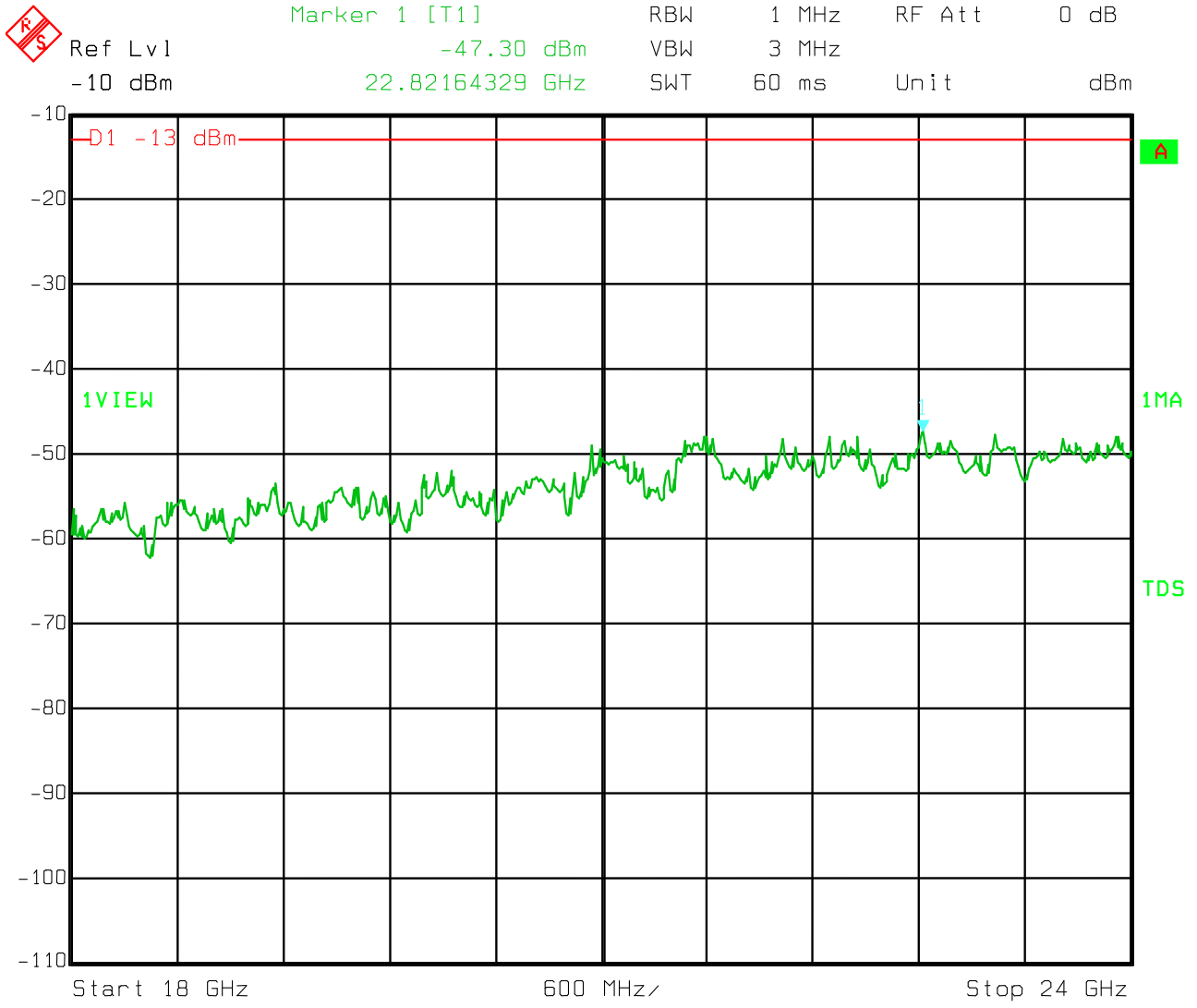
Date: 26.JUN.2017 10:33:29

1GHz-18GHz – V Pol



Date: 26.JUN.2017 15:05:52

18GHz-24GHz – H Pol

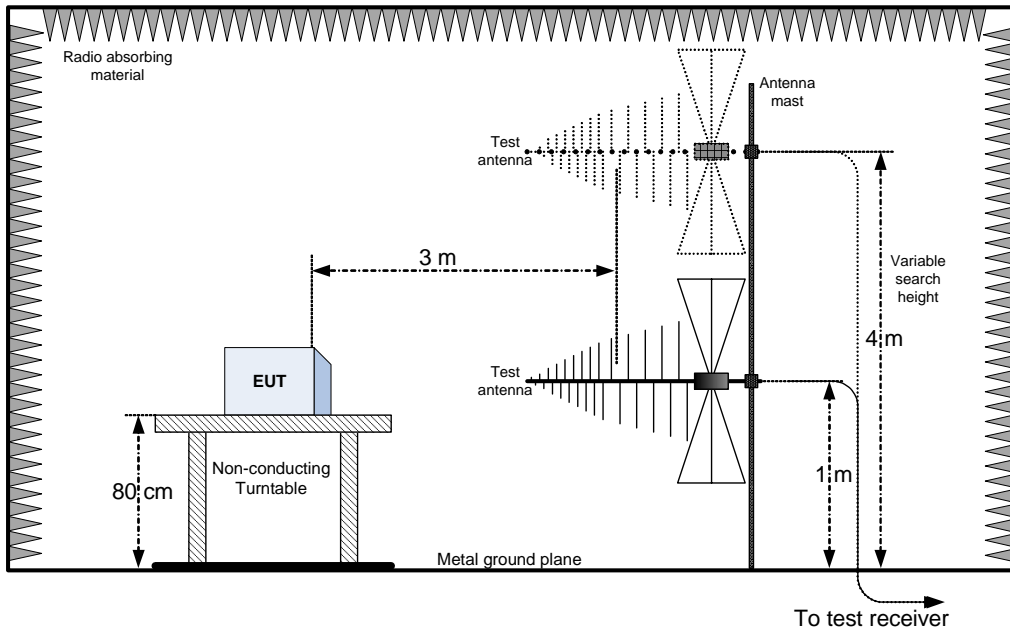


Date: 26.JUN.2017 15:01:20

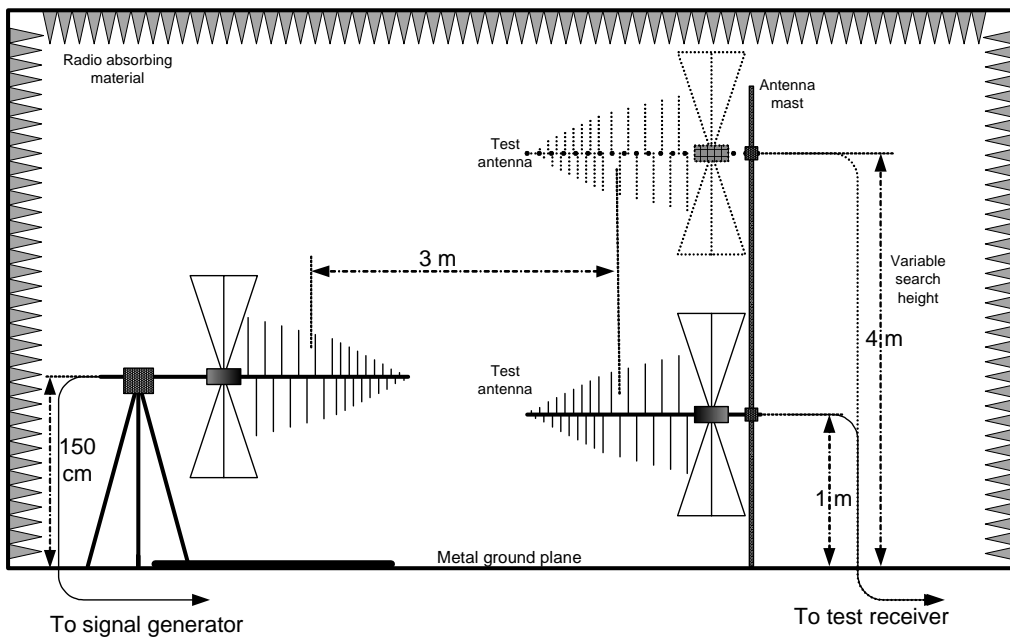
18GHz-24GHz – V Pol

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



