





Test report 2024-0349-EMC-TR-25-0197-V02

| | |
|------------------------|---|
| Designation: | CAP H2 34T/37T F-AC-F1 [37T] |
| Manufacturer: | CommScope |
| Serial No(s): | BGH2AA2434005 |
| ID No. | 7857017-0001 Rev: 00 |
| FCC ID | XS5-H23437 |
| Test Specification(s): | ANSI 63.26:2015 FCC Rules and Regulations as listed in 47 CFR, Part 20 and Part 27:2024-10-28 |
| Test Plan: | "BU-PC-2336-10 FCC CAP H2 34T37T" from customer. |
| Test Result: | Passed |

| | | | |
|----------------------|-------------------------------|------------------------|---|
| Date of issue: | 2025-02-25 | | Signature: |
| Version: | 02 | Technical Reviewer: |  Digitally signed by Thomas Gerngroß DN: cn=Thomas Gerngroß, o=Bureau Veritas CPS Germany GmbH, ou=ECL, email=thomas.gerngross@bureauveritas.com, c=DE Date: 2025.02.25 08:10:27 +01'00' |
| Date of delivery: | 2024-10-28 | | |
| Performance date: | 2024-12-02 – 2024-12-11 | Report Reviewer: |  Digitally signed by Thomas Hufnagel Date: 2025.02.25 08:14:41 +01'00' |



Bundesnetzagentur

BNetzA-CAB-19/21-20



Deutsche
Akkreditierungsstelle
D-PL-12024-06-00

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

| | |
|-----------------------------|---|
| Client: | CommScope Andrew Wireless System GmbH Industriering 10 86675 Buchdorf Germany |
| Test laboratory: | Bureau Veritas Consumer Products Services Germany GmbH Thurn-und-Taxis-Straße 18 D-90411 Nürnberg Tel.: +49 40 74041 0 |
| Test location: | Bureau Veritas Consumer Products Services Germany GmbH Thurn-und-Taxis-Straße 18 D-90411 Nürnberg |
| | Laboratory accreditation no: DAKS D-PL-12024-06-04 BNETZA-CAB-19/21-20 |
| | FCC Designation Number: DE0023 FCC Test Firm Registration: 366481 |
| Versions management: | |
| V 01.00 | Initial release. |
| V 02.00 | Supplement of used antenna ports at measurements and editorial changes. |

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2024-0349-EMC-TR-24-0197-V02



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1 APPLIED STANDARDS AND TEST SUMMARY

1.1 CFR APPLIED STANDARDS

Type of Authorization

Certification for an Industrial Signal Booster.

Applicable FCC Rules

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47 CFR Chapter 1, Parts 2, 20 and 27, (10/28/2024 Edition). The following subparts are applicable to the results in this test report.

Part 2, Subpart J - Equipment Authorization Procedures, Certification

Part 20, Commercial Mobiles Services

§ 20.21 Signal Boosters

Part 27; Miscellaneous Wireless Communications Services
Subpart C – Technical standards

§ 27.50 – Power and duty cycle limits

§ 27.53 – Emission limits

The tests were selected and performed with reference to:

- FCC Public Notice 935210 applying "Signal Boosters Basic Certification Requirements" 935210 D02, 2024-11-20.
- FCC Public Notice 935210 applying "Measurement guidance for industrial and non-consumer signal booster, repeater and amplifier devices" 935210 D05, 2020-04-03.
- FCC Public Notice 971168 applying "Measurement guidance for certification of licensed digital transmitters" 971168 D01, 2018-04-09.
- ANSI C63.26: 2015



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1.2 FCC REFERENCE TABLE

| Measurement | FCC reference |
|--|---|
| Effective radiated power, mean output power and zone enhancer gain | § 27.50 KDB 935210 D05 v01r04: 3.5 |
| Peak to Average Ratio | § 27.50 |
| Occupied bandwidth | § 2.1049 |
| Input-versus-output spectrum | KDB 935210 D05 v01r04: 3.4 |
| Conducted spurious Emission at Antenna Terminal | § 2.1051 § 27.53 KDB 935210 D05 v01r04: 3.6 |
| Out-of-band emissions limits | § 2.1051 § 27.53 KDB 935210 D05 v01r04: 3.6 |
| Out-of-band rejection | KDB 935210 D05 v01r04: 3.3 |
| Frequency stability | § 2.1055 § 27.54 |
| Field strength of spurious radiation | § 2.1053 § 27.53 |
| All measurements | ANSI 63.26 |

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1.3 MEASUREMENT SUMMARY

47 CFR CHAPTER I FCC PART 27 Subpart C [Base Stations/Repeater]

§ 27.50

Effective Radiated Power, mean output power and zone enhancer gain
The measurement was performed according to ANSI C63.26, KDB
935210 D05 v01r04: 3.5

OP-Mode

Frequency Band, Direction, Input Power, Signal Type

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband 5G

Final Result

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

47 CFR CHAPTER I FCC PART 27 Subpart C [Base Stations/Repeater]

§ 27.50

Peak to Average Ratio

The measurement was performed according to ANSI C63.26

OP-Mode

Frequency Band, Direction, Input Power, Signal Type

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband 5G

Final Result

Final Result

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

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47 CFR CHAPTER I FCC PART 27 Subpart C

§ 2.1049

[Base Stations/Repeater]

Occupied Bandwidth/Input-versus-output Spectrum

The measurement was performed according to ANSI C63.26, KDB
935210 D05 v01r04: 3.4

Final Result

OP-Mode

Frequency Band, Direction, Input Power, Signal Type

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 1, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 1, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 2, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 2, RF downlink, 3 dB > AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband

TDD 37, segment 3, RF downlink, 0.3 dB < AGC, Wideband 5G

TDD 37, segment 3, RF downlink, 3 dB > AGC, Wideband 5G

Final

Result

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

Passed

47 CFR CHAPTER I FCC PART 27 Subpart C

§ 2.1051, § 27.53

[Base Stations/Repeater]

Conducted spurious emissions at antenna terminals

The measurement was performed according to ANSI C63.26

Final Result

OP-Mode

Frequency Band, Direction, Signal Type

TDD 37, segment 1, RF downlink, Wideband

TDD 37, segment 1, RF downlink, Wideband 5G

TDD 37, segment 2, RF downlink, Wideband

TDD 37, segment 2, RF downlink, Wideband 5G

TDD 37, segment 3, RF downlink, Wideband

TDD 37, segment 3, RF downlink, Wideband 5G

Final

Result

Passed

Passed

Passed

Passed

Passed

Passed



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**47 CFR CHAPTER I FCC PART 27 Subpart C
[Base Stations/Repeater]**

§ 2.1051, § 27.53

Out-of-band emission limits

The measurement was performed according to ANSI C63.26, KDB

935210 D05 v01r04: 3.6

OP-Mode

Final Result

Band Edge, Frequency Band, Number of signals, Direction, Input Power, Signal Type

| | |
|--|--------|
| Upper, TDD 37 segment 1, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 1, 1, RF downlink, 3 dB > AGC, Wideband | Passed |
| Upper, TDD 37 segment 1, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Upper, TDD 37 segment 1, 1, RF downlink, 3 dB > AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 1, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 1, 1, RF downlink, 3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 1, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 1, 1, RF downlink, 3 dB < AGC, Wideband 5G | Passed |

| | |
|---|--------|
| Upper, TDD 37 segment 1, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 1, 2, RF downlink, 3 dB > AGC, Wideband | Passed |
| Lower, TDD 37 segment 1, 2, RF downlink, , 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 1, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |

OP-Mode

Final Result

Band Edge, Frequency Band, Number of signals, Direction, Input Power, Signal Type

| | |
|--|--------|
| Upper, TDD 37 segment 2, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 2, 1, RF downlink, 3 dB > AGC, Wideband | Passed |
| Upper, TDD 37 segment 2, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Upper, TDD 37 segment 2, 1, RF downlink, 3 dB > AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 2, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 2, 1, RF downlink, 3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 2, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 2, 1, RF downlink, 3 dB < AGC, Wideband 5G | Passed |

| | |
|---|--------|
| Upper, TDD 37 segment 2, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 2, 2, RF downlink, 3 dB > AGC, Wideband | Passed |
| Lower, TDD 37 segment 2, 2, RF downlink, , 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 2, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |

The test results relate only to the tested item. The sample has been provided by the client.

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EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

OP-Mode

Band Edge, Frequency Band, Number of signals, Direction, Input Power, Signal Type

Final Result

| | |
|--|--------|
| Upper, TDD 37 segment 3, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 3, 1, RF downlink, 3 dB > AGC, Wideband | Passed |
| Upper, TDD 37 segment 3, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Upper, TDD 37 segment 3, 1, RF downlink, 3 dB > AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 3, 1, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 3, 1, RF downlink, 3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 3, 1, RF downlink, 0.3 dB < AGC, Wideband 5G | Passed |
| Lower, TDD 37 segment 3, 1, RF downlink, 3 dB < AGC, Wideband 5G | Passed |
| | |
| Upper, TDD 37 segment 3, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |
| Upper, TDD 37 segment 3, 2, RF downlink, 3 dB > AGC, Wideband | Passed |
| Lower, TDD 37 segment 3, 2, RF downlink, , 0.3 dB < AGC, Wideband | Passed |
| Lower, TDD 37 segment 3, 2, RF downlink, 0.3 dB < AGC, Wideband | Passed |

47 CFR CHAPTER I FCC PART 27 Subpart C**KDB 935210 D05 v01r04: 3.3****[Base Stations/Repeater]**

Out-of-band rejection

The measurement was performed according to ANSI C63.26; KDB 935210 D05 v01r04: 3.3

Final Result**OP-Mode**

Frequency Band, Direction

| | |
|--------------------------------|--------|
| TDD 37, segment 1, RF downlink | Passed |
| TDD 37, segment 2, RF downlink | Passed |
| TDD 37, segment 3, RF downlink | Passed |

47 CFR CHAPTER I FCC PART 27 Subpart C**§ 2.1053, § 27.53****[Base Stations/Repeater]**

Field strength of spurious radiation

The measurement was performed according to ANSI C63.26

Final Result**OP-Mode**

Frequency Band, Test Frequency, Direction

| | |
|--------------------------------|--------|
| TDD 37, segment 1, RF downlink | Passed |
| TDD 37, segment 2, RF downlink | Passed |
| TDD 37, segment 3, RF downlink | Passed |

The test case frequency stability was not performed, since the EUT is not equipped with signal processing that influences the output signal frequency/frequencies (see as well chapter 5.7).

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2 ADMINISTRATIVE DATA

2.1 TESTING LABORATORY

Bureau Veritas Consumer Products Services

Germany GmbH

Thurn-und-Taxis-Straße 18

D-90411 Nürnberg

Tel.: +49 40 74041 0

Fax: +49 40 74041-2755

2.2 APPLICANT DATA

Company Name:

CommScope

Andrew Wireless Systems GmbH

Address:

Industriering 10

86675 Buchdorf

Germany

Contact Person:

Mr. Jiri Cecka

2.3 MANUFACTURER DATA

Company Name:

Please see applicant data.

Address:

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3 TEST OBJECT DATA

3.1 GENERAL EUT DESCRIPTION

| | |
|--|---|
| Kind of Device product description | Cellular Repeater |
| Product name | Cellular Repeater |
| Type | CAP H2 34T/37T F-AC-F1 |
| Declared EUT data by the supplier | |
| General Product Description | <p>The EUT is an industrial signal booster supporting the following:</p> <p>Band 34T: 3450 MHz - 3550 MHz</p> <p>Band 37T from 3700 MHz – 3980 MHz with the segments:</p> <p>Segment 1: 3700 MHz - 3800 MHz</p> <p>Segment 2: 3790 MHz - 3890 MHz</p> <p>Segment 3: 3880 MHz – 3980 MHz</p> <p>A RF operation is only supported for the downlink.</p> |
| Booster Type | Industrial Signal Booster |
| Voltage Type | AC |
| Voltage Level | 100 V to 240 V |
| Maximum Output Donor Port [Uplink] | - |
| Maximum Output Server Port [Downlink] | 43 dBm in all bands |
| Maximum Gain [Uplink] | - |
| Maximum Gain [Downlink] | 48 dB in all bands |

The main components of the EUT are listed and described in chapter 3.2EUT Main components.



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3.2 EUT MAIN COMPONENTS

| Sample Parameter | Value |
|------------------|----------------------|
| Serial Number | BGH2AA2434005 |
| HW Version | 7857017-0001 Rev: 00 |
| SW Version | 1.10.0.180007 |
| Comment | ----- |

NOTE: The short description is used to simplify the identification of the EUT in this test report.

3.3 ANCILLARY EQUIPMENT

For the purposes of this test report, ancillary equipment is defined as equipment which is used in conjunction with the EUT to provide operational and control features to the EUT. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Ancillary Equipment can influence the test results.

| Device | Details(Manufacturer, Type Model, OUT Code) | Description |
|--------|---|-------------|
| - | - | - |

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3.4 AUXILIARY EQUIPMENT

For the purposes of this test report, auxiliary equipment is defined as equipment which is used temporarily to enable operational and control features especially used for the tests of the EUT which is not used during normal operation or equipment that is used during the tests in combination with the EUT but is not subject of this test report. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Auxiliary Equipment can influence the test results.

| Device | Details (Manufacturer, Type, S/N) | Description |
|---------------|---|-------------------------------|
| AUX1 | GE Energy, SP800, 14CS12226993 | Power supply rack |
| AUX2 | GE Power Electronic Inc., CAR1212FPBC-Z, n. a. | Power plug-in module |
| AUX3 | CommScope, ION-E WCS-2, SZAEJAJ1719A0003 | Module rack |
| AUX4 | CommScope, ION-E OPT, MA43 | Optical plug-in module |
| AUX5 | Commcope, 7680813,STPAP311A1802788 | Optical plug in probe |
| AUX6 | Commcope, 7680813,STPAP31184707735 | Optical plug in probe |
| AUX8 | CommScope, ION-E SUI, SZBEAC1934A0018 | Interface card plug-in module |
| AUX8 | CommScope, RFD HB, SZBEAQ2140A0014 | RF card plug-in module |
| AUX9 | CommScope, RFD HB, SZBEAQ3324A0084 | RF card plug-in module |

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3.5 EUT SETUPS

This chapter describes the combination of EUTs and equipment used for testing. The rationale for selecting the EUTs, ancillary and auxiliary equipment and interconnecting cables, is to test a representative configuration meeting the requirements of the referenced standards.

| Setup | Combination of EUTs | Description and Rationale |
|-------|---------------------|---------------------------|
| | , | Setup for all tests |

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3.6 Operating Modes

This chapter describes the operating modes of the EUT used for testing.

3.6.1 TEST CHANNELS

| Segment of TDD 37 band | Direction | Lower Frequency Band Edge [MHz] | Upper Frequency Band Edge [MHz] | Center Frequency [MHz] | Port |
|-------------------------------|------------------|--|--|-------------------------------|-------------|
| 1/low | Downlink | 3700.00 | 3800.00 | 3750.00 | Donor |
| 2/mid | Downlink | 3790.00 | 3890.00 | 3840.00 | Donor |
| 3/high | Downlink | 3880.00 | 3980.00 | 3930.00 | Donor |

3.6.2 DEFINITION OF USED FREQUENCY BANDS

Wideband 1: representation by an AWGN signal with 4.1 MHz

Wideband 2: representation by an AWGN signal with 98.3 MHz

3.6.3 USED ANTENNA PORTS FOR TESTS

At all test except MIMO tests antenna port 1 was used. At MIMO test antenna ports 1 and 2 were used.

3.6.4 AUTOMATIC GAIN CONTROL LEVELS

| AGC Levels | | | | | | | |
|------------------------|-----------|-------------|---------------------|-----------------------------|---------------------------|-----------------|-----------|
| Segment of TDD 37 band | Direction | Signal Type | AGC Start Pin [dBm] | AGC Start Pin -0.3 dB [dBm] | AGC Start Pin +3 dB [dBm] | Frequency [MHz] | Frequency |
| 1 | downlink | Wideband | -2.8 | -3.1 | 0.2 | 3750.0 | Mid |
| 2 | downlink | Wideband | -2.4 | -2.7 | 0.6 | 3840.0 | |
| 3 | downlink | Wideband | -2.6 | -2.9 | 0.3 | 3930.0 | |
| 1 | downlink | Wideband 5G | -3.8 | -4.1 | -0.8 | 3750.0 | |
| 2 | downlink | Wideband 5G | -3.8 | -4.1 | -0.7 | 3840.0 | |
| 3 | downlink | Wideband 5G | -3.5 | -3.8 | -0.5 | 3930.0 | |
| 1 | downlink | Wideband | -3.0 | -3.3 | 0.0 | 3702.5 | Low |
| 2 | downlink | Wideband | -4.0 | -4.2 | -1.2 | 3792.5 | |
| 3 | downlink | Wideband | -2.8 | -3.1 | 0.2 | 3882.5 | |
| 1 | downlink | Wideband | -3.0 | -3.3 | 0.0 | 3797.5 | High |
| 2 | downlink | Wideband | -3.2 | -3.5 | -0.2 | 3887.5 | |
| 3 | downlink | Wideband | -2.9 | -3.1 | 0.2 | 3977.5 | |
| 1 | downlink | Wideband | -4.1 | -4.4 | -1.2 | 3797.0 | Max.Power |
| 2 | downlink | Wideband | -4.0 | -4.2 | -1.2 | 3792.0 | |
| 3 | downlink | Wideband | -3.8 | -4.1 | -0.9 | 3882.6 | |
| 1 | downlink | Wideband 5G | -3.8 | -4.1 | -0.8 | 3750.0 | |
| 2 | downlink | Wideband 5G | -3.8 | -4.1 | -0.7 | 3840.0 | |
| 3 | downlink | Wideband 5G | -3.5 | -3.8 | -0.5 | 3930.0 | |

The test results relate only to the tested item. The sample has been provided by the client.

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

3.7 PRODUCT LABELLING

3.7.1 FCC ID LABEL

Please refer to the documentation of the applicant.

3.7.2 LOCATION OF THE LABEL ON THE EUT

Please refer to the documentation of the applicant.

The test results relate only to the tested item. The sample has been provided by the client.

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

4 DESCRIPTION OF EMC TEST CENTRE

4.1 CLIMATIC CONDITIONS DURING MEASUREMENTS

The climatic conditions were within the following ranges.

For ESD testing, the conditions during the test were denoted in the corresponding chapter.

Ambient temperature: 25 ± 10 °C
Relative humidity: 20 – 60 %
Air pressure: 860 - 1060 hPa

4.2 CONFORMITY STATEMENT / DECISION RULE

4.2.1 EMISSION

If the standard or the customer defines no decision rule, the laboratory applies a decision rule following the “Binary Statement for Simple Acceptance Rule ($w=0$)” (chapter 4.2.1) of ILAC Guidelines on Decision Rules and Statements of Conformity (ILAC-G8:09/2019). If the measured value is at the limit value, it is evaluated as PASS. The client has agreed with application of the decision rule prior testing and demanded a statement of conformity by the test laboratory.

4.3 MEASUREMENT UNCERTAINTY

The table below shows the measurement uncertainties for each measurement method. The expanded uncertainty was calculated with worst case values over the complete frequency area.

| Measurement method | Parameter | Description | Exp. Uncertainty (k=2) |
|--|-------------------|-----------------------------|------------------------|
| Radiated emissions – ALSE method (CISPR 25) | 9 kHz – 30 MHz | Fully/Semi anechoic chamber | 1.8 dB |
| | 30 MHz – 1 GHz | | 1.8 dB |
| | 1 GHz – 6 GHz | | 3.1 dB |
| Conducted emissions - Voltage method (CISPR 25) | 150 kHz - 108 MHz | Fully/Semi anechoic chamber | 1.1 dB |
| Conducted emissions – Current probe method (CISPR 25) | 150 kHz – 245 MHz | Fully/Semi anechoic chamber | 2.2 dB |
| Radiated emissions – Stripline method (CISPR 25) | 100 kHz – 1 GHz | Fully/Semi anechoic chamber | 1.5 dB |
| Radiated emissions – Capacitive voltage measurement method (OEM) | 100 kHz – 30 MHz | Fully/Semi anechoic chamber | 1 dB |
| Radiated emissions – Isotrope Magnetfeldspule 100 cm ² method (OEM) | 1 Hz – 400 kHz | Fully/Semi anechoic chamber | 5.1 dB |
| Radiated emissions – Magnetfeldspule 60 cm method (OEM) | 9 kHz – 30 MHz | Fully/Semi anechoic chamber | 1 dB |
| Radiated emissions – Magnetfeldspule 12 cm method (OEM) | 20 Hz – 200 kHz | Fully/Semi anechoic chamber | 1.5 dB |
| Electrical transient conduction along supply lines only (ISO 7637-2) | Voltage | EMI | 4.3 dB |
| | Time | | 0,26 % |

The test results relate only to the tested item. The sample has been provided by the client.

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5 TEST RESULTS

5.1 EFFECTIVE RADIATED POWER, MEAN OUTPUT POWER AND ZONE ENHANCER GAIN

Standard FCC Part 27, §27.50

The test was performed according to:

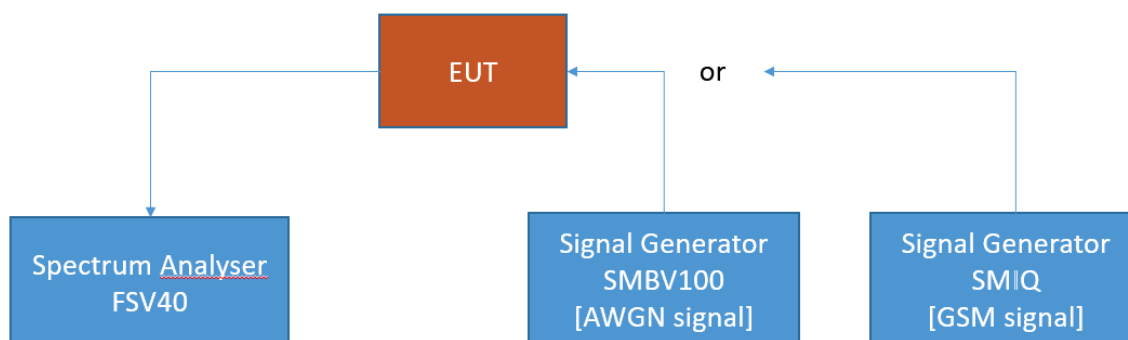
ANSI C63.26, KDB 935210 D05 v01r04: 3.5

Test date: 2024-11-29 – 2024-12-01**Environmental conditions:** 24.7 °C; 20 % r. F.**Test engineer:** Thomas Hufnagel

5.1.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the signal booster power and gain limits and requirements for industrial signal boosters.

The EUT was connected to the test setup according to the following diagram:



FCC Part 22/24/27/90 Industrial signal booster – Test Setup; RF Output Power / Gain

The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.1.2 TEST REQUIREMENTS/LIMITS

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§ 27.50

- (j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:
- (1) The power of each fixed or base station transmitting in the 3700-3980 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, is limited to an equivalent isotropically radiated power (EIRP) of 3280 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.
 - (2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.
 - (3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.
 - (4) Equipment employed must be authorized in accordance with the provisions of § 27.51. 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 (j)(5) of this section. 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.
 - (5) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, and any other relevant factors, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

5.1.3 TEST PROTOCOL

| 37T, segment 1; downlink | | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|---|---|-----------------------------|------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | Maximum Average Output Power [dBm] | Limit Average Output Power [dBm] | Margin to Limit [dB] | Gain [dB] |
| Wideband | 0.3 dB < AGC | 3797.0 | -4.4 | 43.1 | 62.1 | 19.0 | 47.5 |
| Wideband | 3 dB > AGC | 3797.0 | -1.2 | 44.2 | 62.1 | 17.9 | 45.4 |
| Wideband 5G | 0.3 dB < AGC | 3750.0 | -4.1 | 42.6 | 62.1 | 19.5 | 46.7 |
| Wideband 5G | 3 dB > AGC | 3750.0 | -0.8 | 43.4 | 62.1 | 18.7 | 44.2 |

| 37T, segment 2; downlink | | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|---|---|-----------------------------|------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | Maximum Average Output Power [dBm] | Limit Average Output Power [dBm] | Margin to Limit [dB] | Gain [dB] |
| Wideband | 0.3 dB < AGC | 3792.0 | -4.2 | 43.1 | 62.1 | 19.0 | 47.3 |
| Wideband | 3 dB > AGC | 3792.0 | -1.2 | 43.6 | 62.1 | 18.5 | 44.8 |
| Wideband 5G | 0.3 dB < AGC | 3840.0 | -4.1 | 42.7 | 62.1 | 19.4 | 46.8 |
| Wideband 5G | 3 dB > AGC | 3840.0 | -0.7 | 43.4 | 62.1 | 18.7 | 44.1 |

| 37T, segment 3; downlink | | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|---|---|-----------------------------|------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | Maximum Average Output Power [dBm] | Limit Average Output Power [dBm] | Margin to Limit [dB] | Gain [dB] |
| Wideband | 0.3 dB < AGC | 3882.6 | -4.1 | 43.6 | 62.1 | 18.5 | 47.7 |
| Wideband | 3 dB > AGC | 3882.6 | -0.9 | 43.5 | 62.1 | 18.6 | 44.4 |
| Wideband 5G | 0.3 dB < AGC | 3930.0 | -3.8 | 43.2 | 62.1 | 18.9 | 47.0 |
| Wideband 5G | 3 dB > AGC | 3930.0 | -0.5 | 43.2 | 62.1 | 18.9 | 43.7 |

Remark: Please see next sub-clause for the measurement plots.

The test results relate only to the tested item. The sample has been provided by the client.

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Maximum output power (EIRP) in consideration together with the send antenna system

The highest power level in the tables above is

$p_{\text{highest}} = 43.6 \text{ dBm}$ at the channel which has the most output power of all channels.

Hereby at an antenna gain of $G_{\text{dB}} = 13 \text{ dBi}$ the highest effective radiated output power EIRP $p_{\text{EIRP 1CH}}$ of one channel is:

$$p_{\text{EIRP 1CH}} = p_{\text{highest}} + G_{\text{dB}}$$

This results in:

$$p_{\text{EIRP 1CH}} = 43.6 \text{ dBm} + 13 \text{ dBi} = 56.6 \text{ dBm}$$

The equivalent power P is according the given formula:

$$P_{\text{EIRP 1CH}} =$$

$$P_{\text{EIRP 1CH}} [\text{W}] = 10 \exp \left(\frac{p_{\text{EIRP 1CH}} [\text{dBm}] - 30}{10} \right) \cdot 0.001 [\text{W}]$$

This results in:

$$P_{\text{EIRP 1CH}} [\text{W}] = 10 \exp \left(\frac{56.6 [\text{dBm}] - 30}{10} \right) \cdot 0.001 [\text{W}] = 457 \text{ W}$$

Supposed all two antenna ports are working together in MIMO operation the highest value of the highest output power $p_{\text{EIRP 2CH}}$ is:

$$p_{\text{EIRP 2CH}} = 2 \cdot p_{\text{EIRP 1CH}}$$

This results in:

$$p_{\text{EIRP 2CH}} = 2 \cdot 457 \text{ W} = 914 \text{ W}$$

Final result of this consideration:

$p_{\text{EIRP 2CH}} = 914 \text{ W} < 1640 \text{ W}$, hereby 1640 W is the highest allowed limit in this band which equates 62.1 dBm.

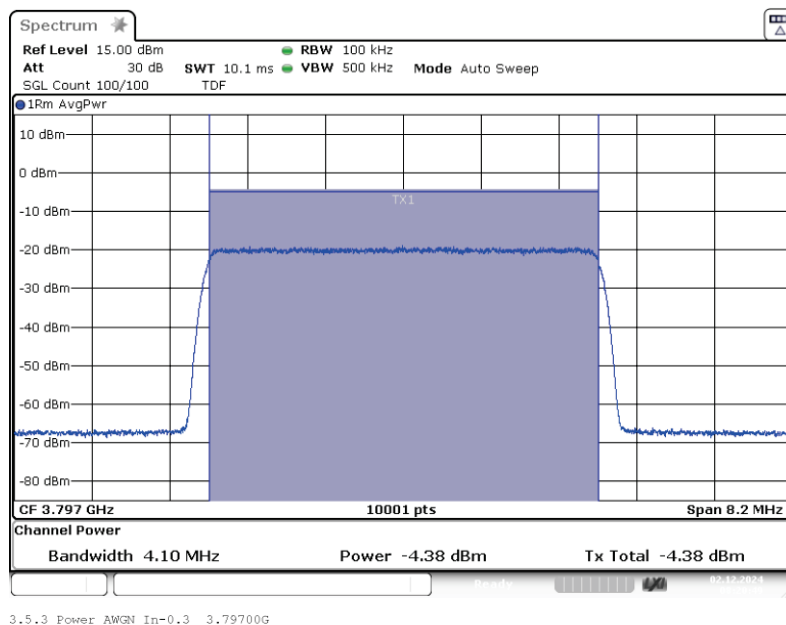
The DUT doesn't exceed the limit.

EMC Test Report No.: 24-0197

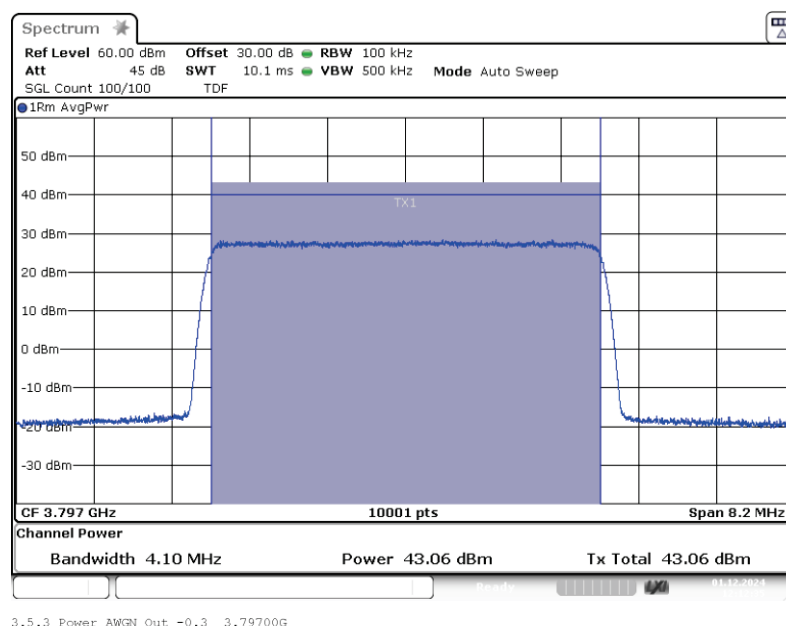
EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.1.4 MEASUREMENT PLOT

Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
Input Power 0.3 dB < AGC

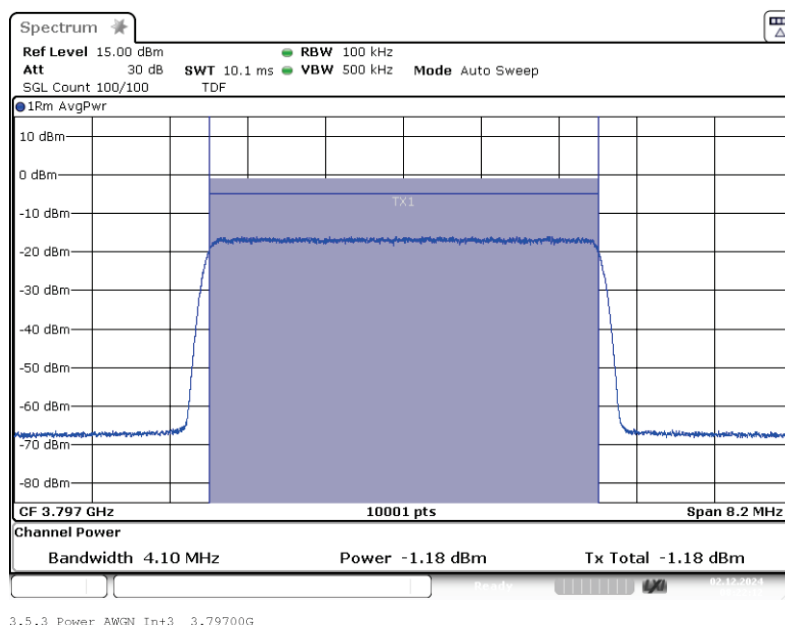


Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
Output Power 0.3 dB < AGC

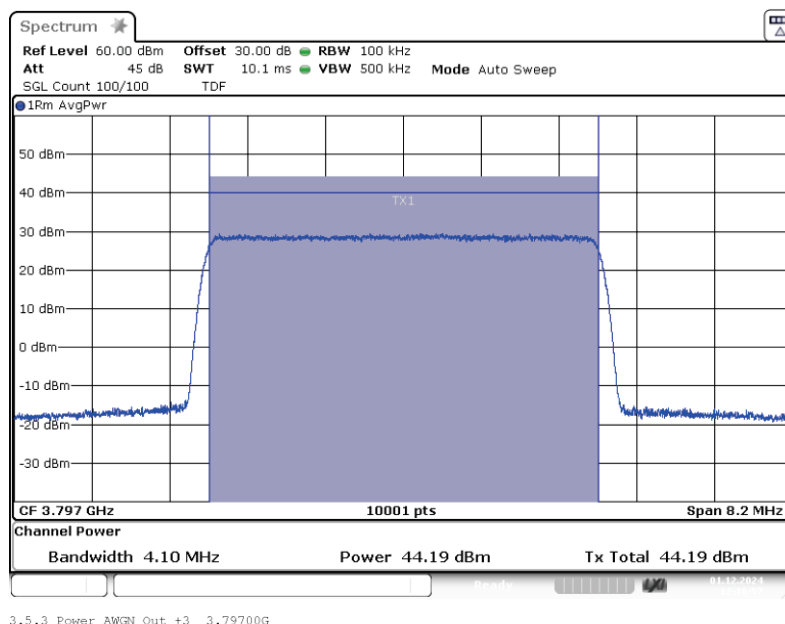


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
Input Power 3 dB > AGC



Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
Output Power 3 dB > AGC

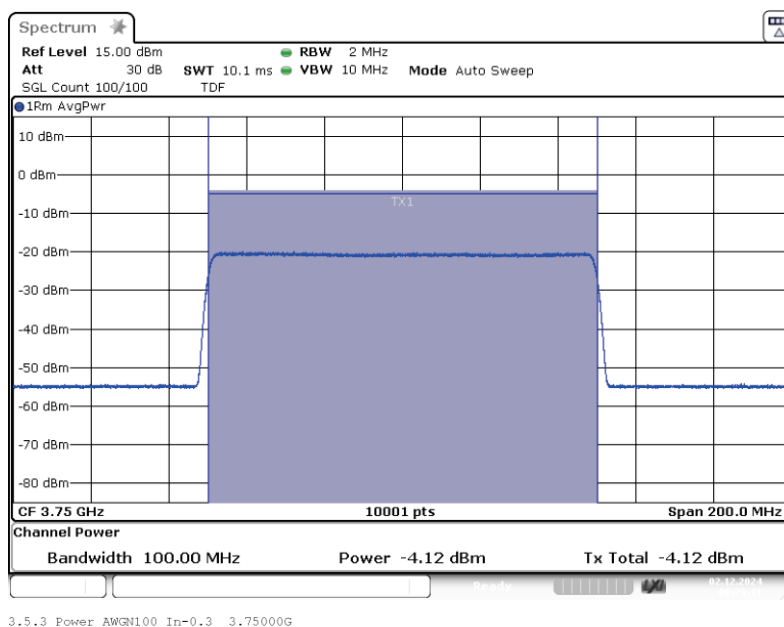


The test results relate only to the tested item. The sample has been provided by the client.
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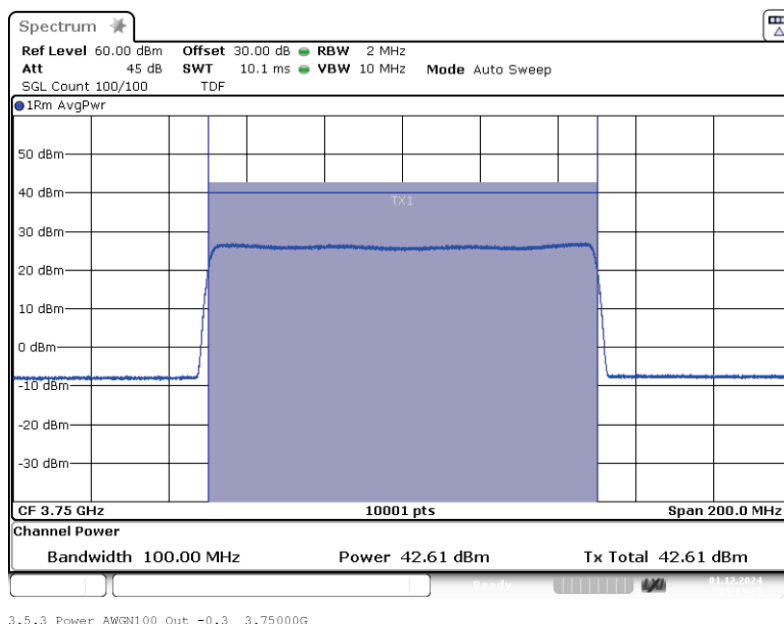
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 0.3 dB < AGC

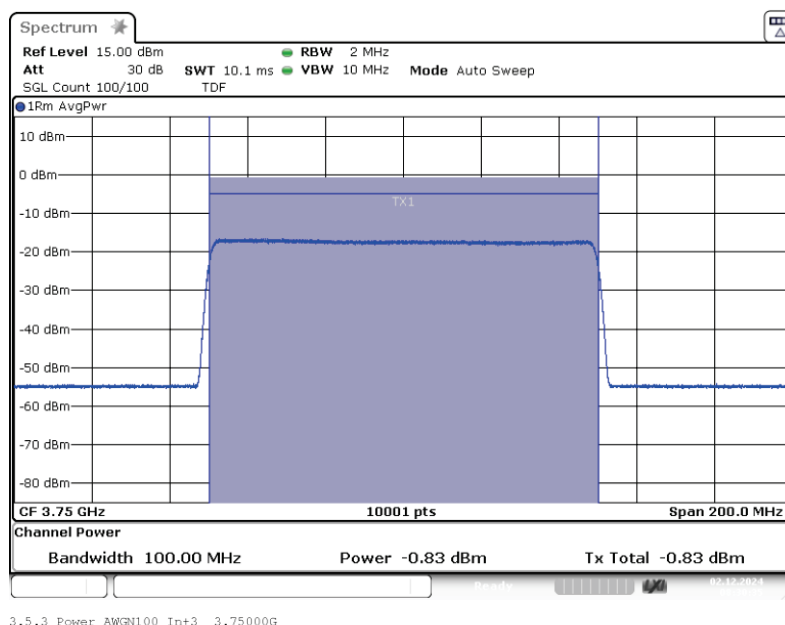


Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 0.3 dB < AGC

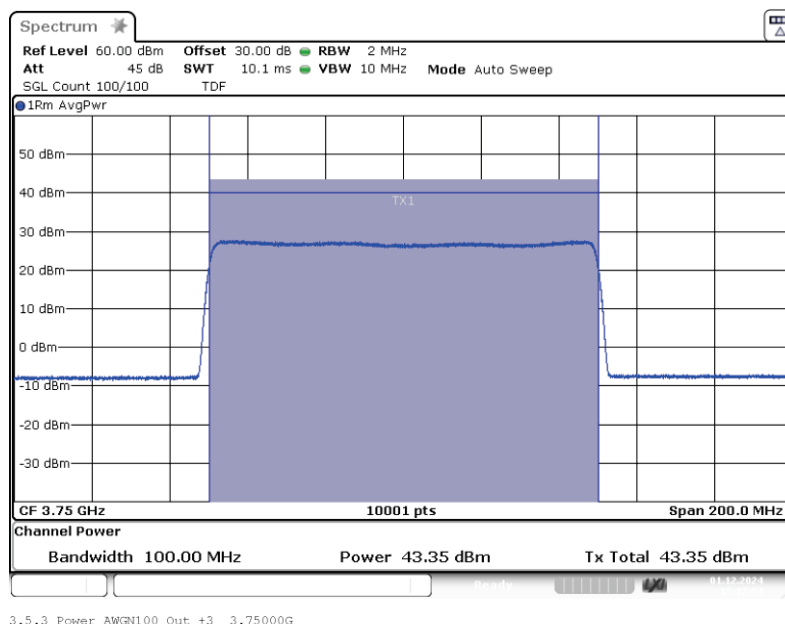


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 3 dB > AGC

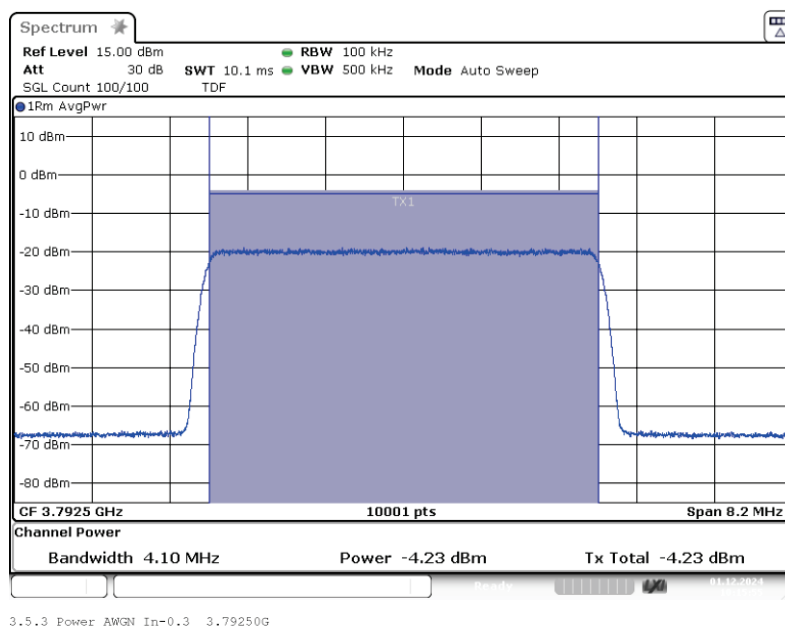


Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 3 dB > AGC

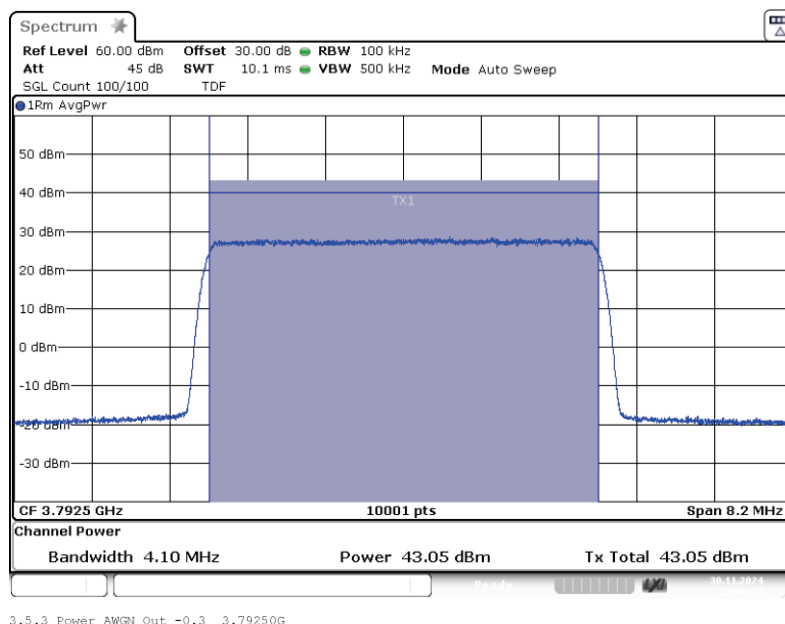


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
Input Power 0.3 dB < AGC

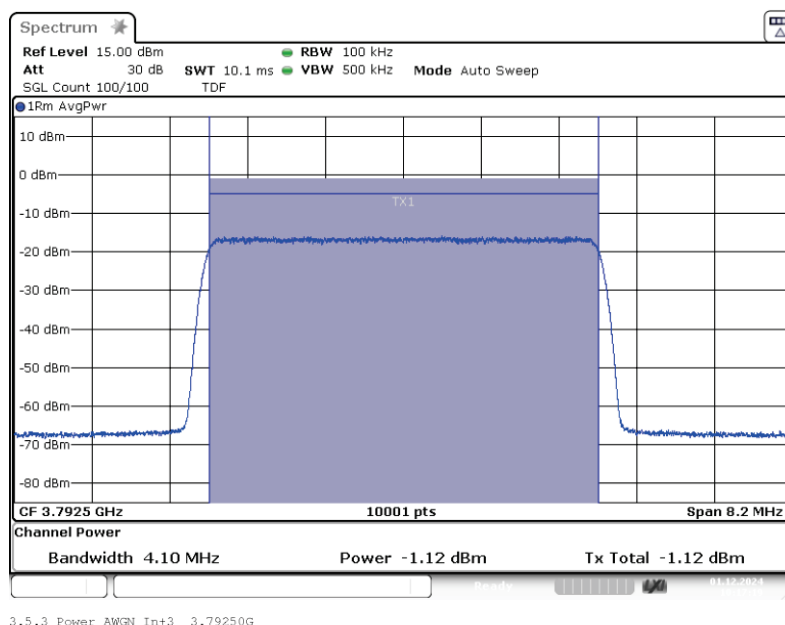


Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
Output Power 0.3 dB < AGC

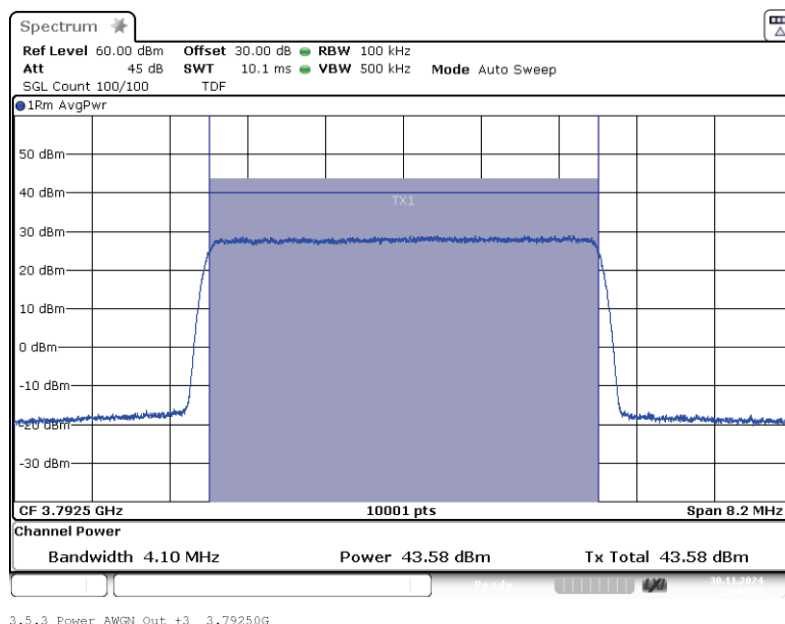


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
Input Power 3 dB > AGC

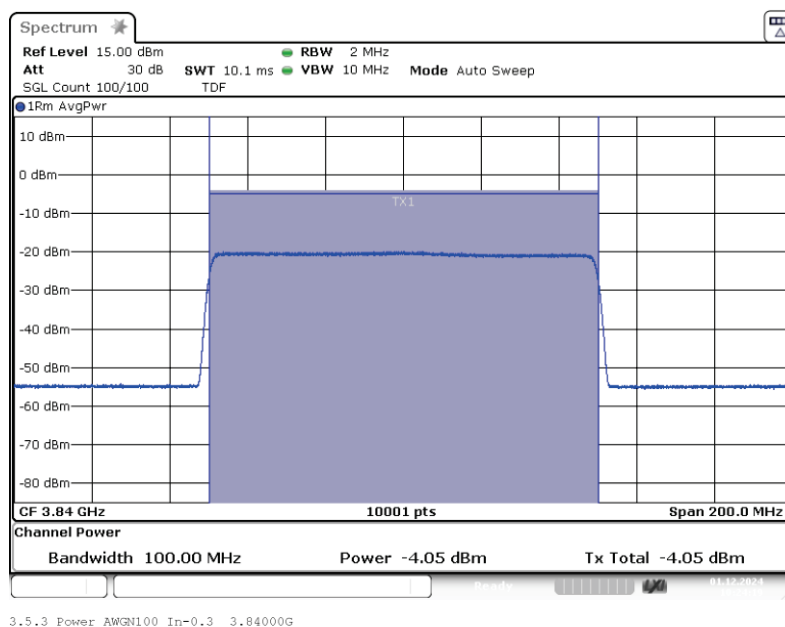


Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
Output Power 3 dB > AGC

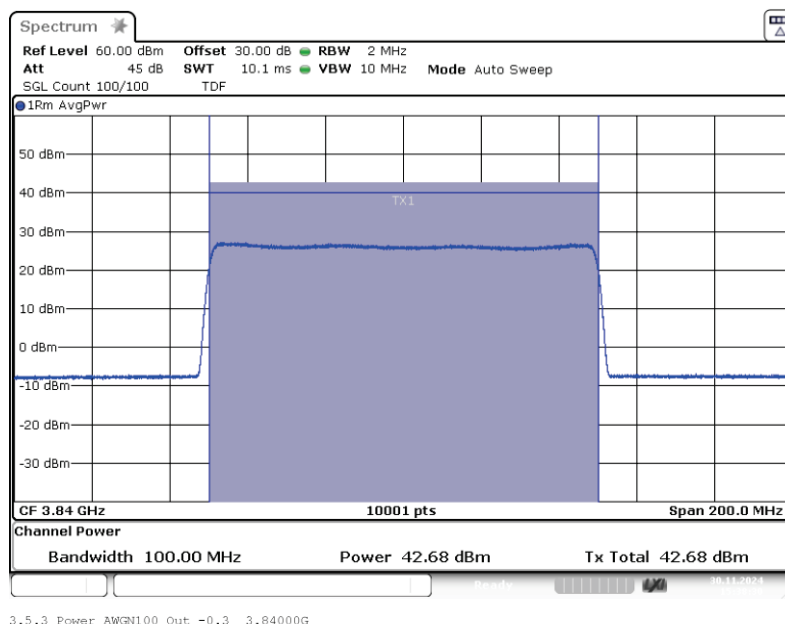


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 0.3 dB < AGC

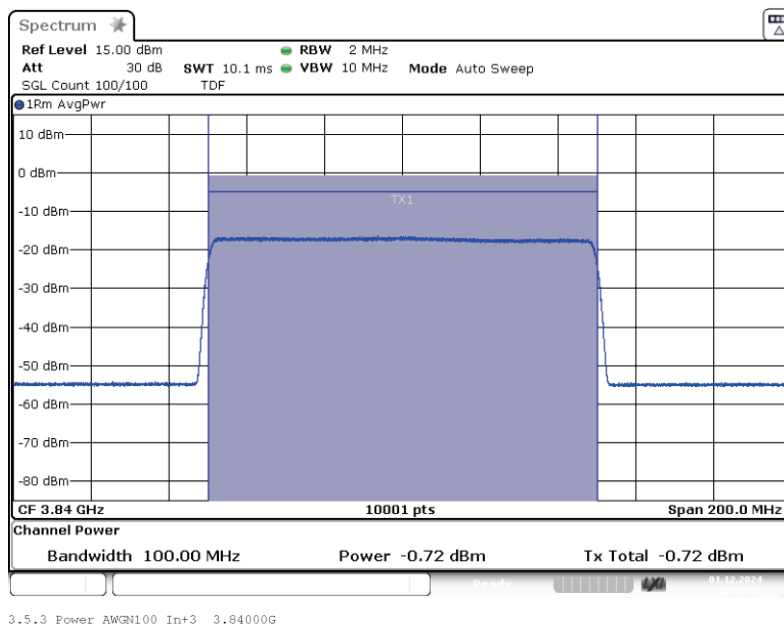


Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 0.3 dB < AGC

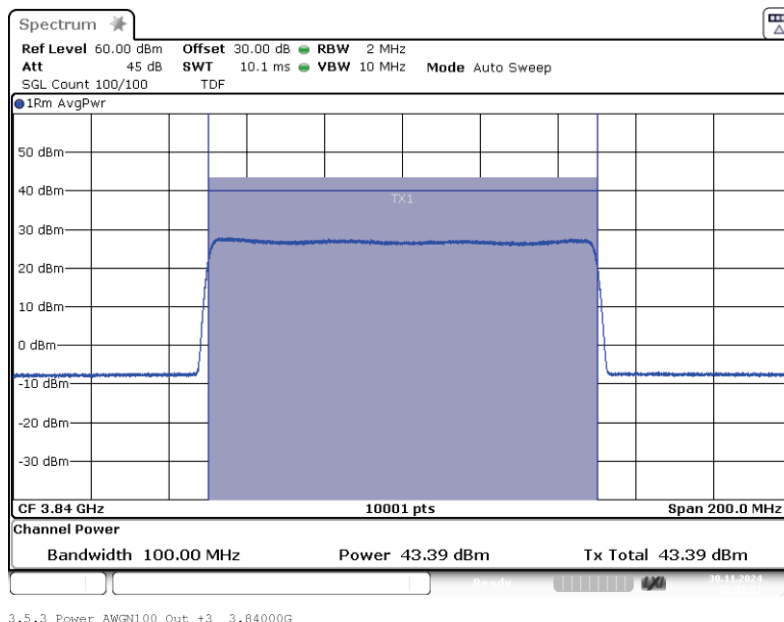


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 3 dB > AGC



Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 3 dB > AGC

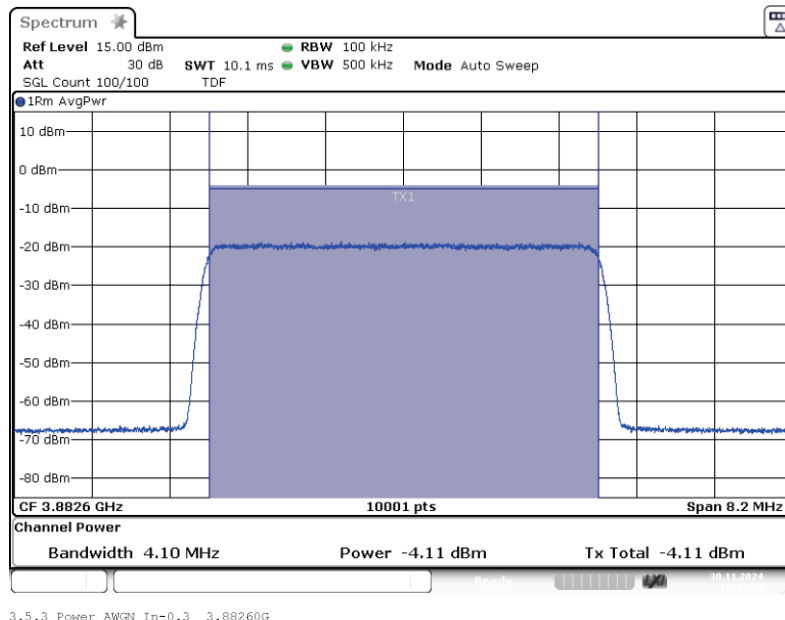


The test results relate only to the tested item. The sample has been provided by the client.
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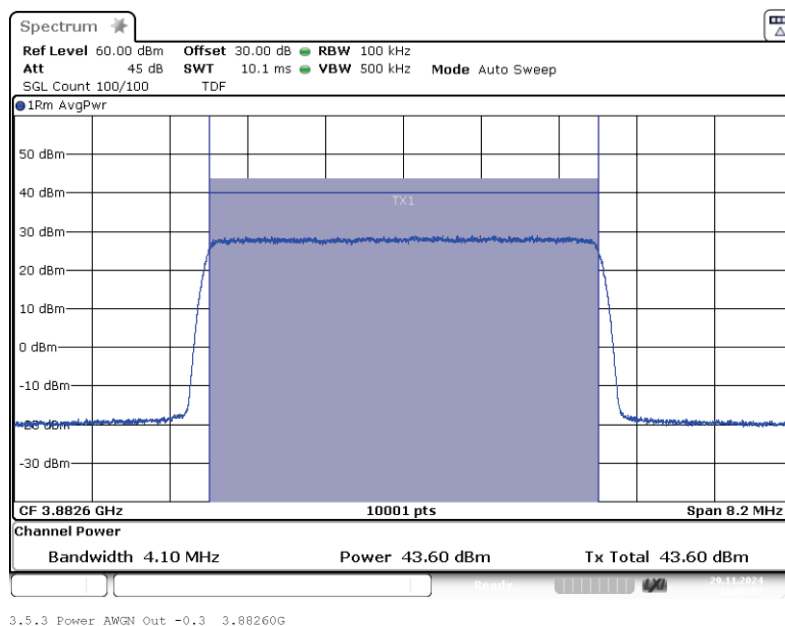
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
Input Power 0.3 dB < AGC

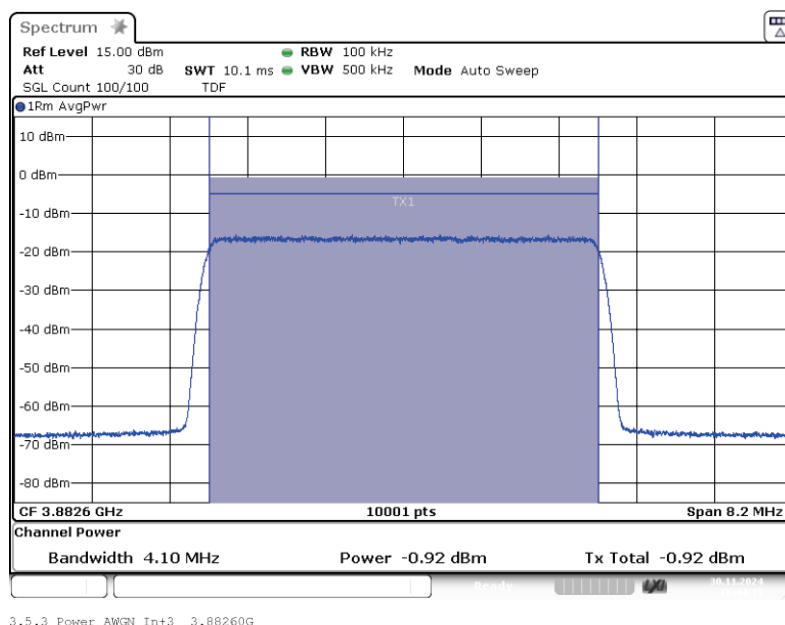


Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
Output Power 0.3 dB < AGC

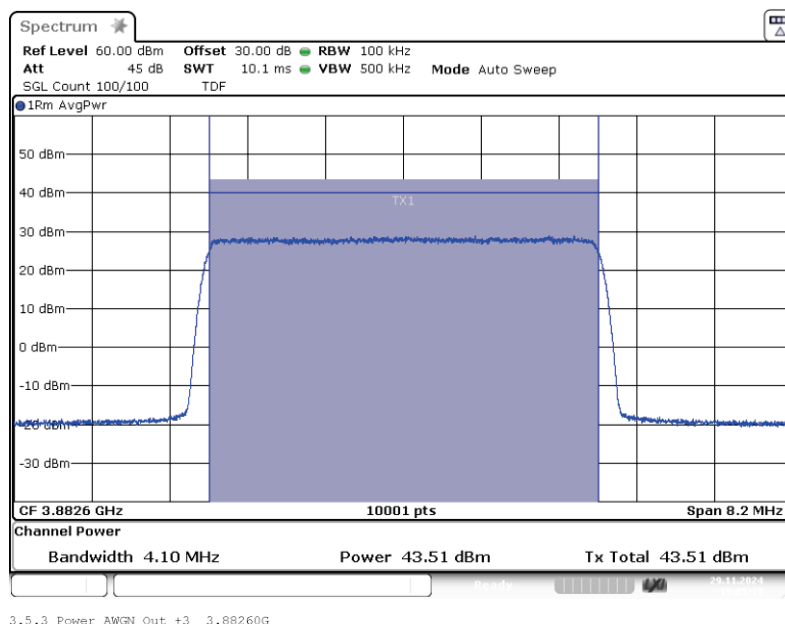


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
Input Power 3 dB > AGC

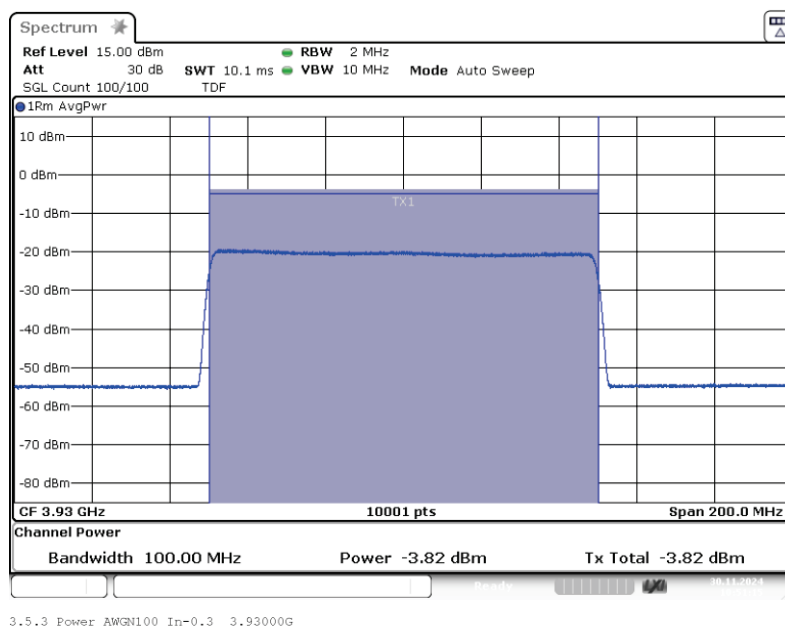


Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
Output Power 3 dB > AGC

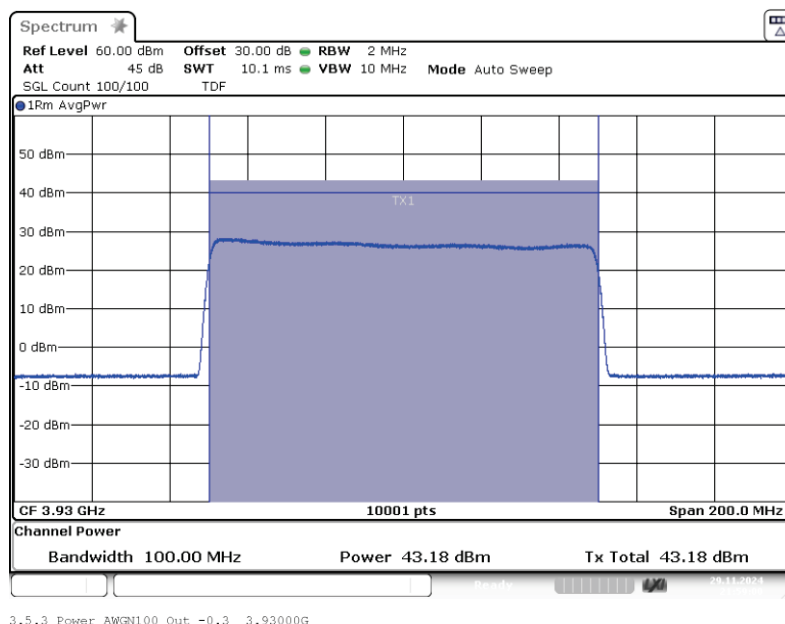


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 0.3 dB < AGC

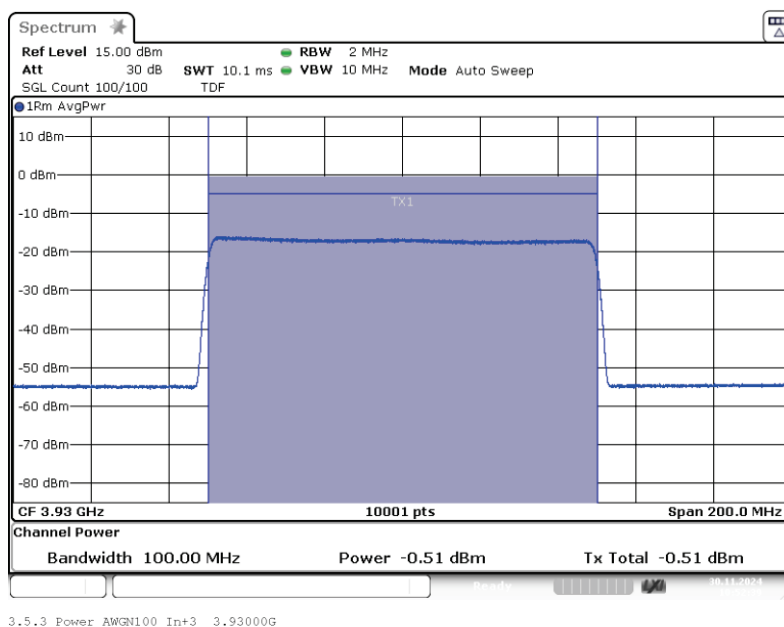


Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 0.3 dB < AGC

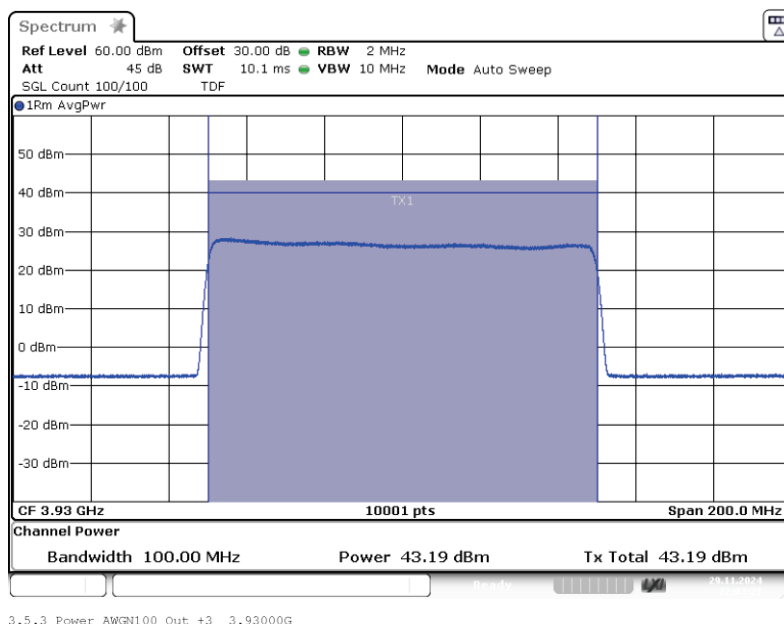


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Input Power 3 dB > AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Output Power 3 dB > AGC



The test results relate only to the tested item. The sample has been provided by the client.
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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.1.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.

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EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.2 PEAK TO AVERAGE RATIO

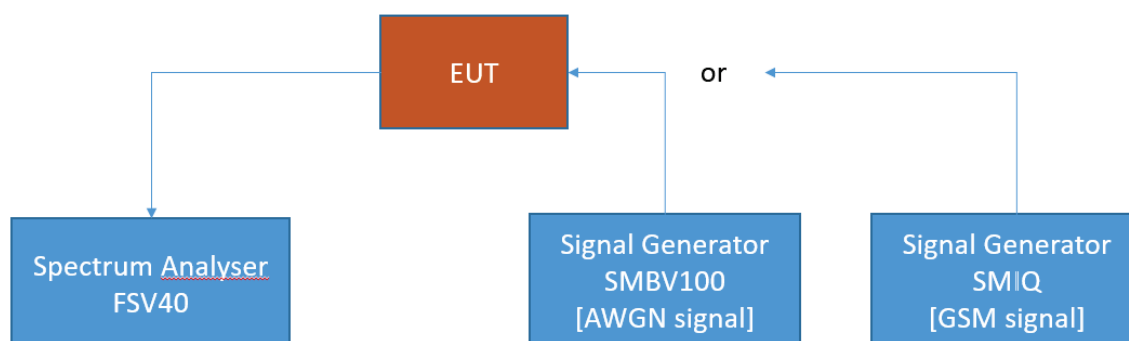
Standard FCC Part 27, §27.50

The test was performed according to:
ANSI C63.26**Test date:** 2024-11-29 – 2024-12-01**Environmental conditions:** 24.7 °C; 20 % r. F.**Test engineer:** Thomas Hufnagel

5.2.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the signal booster power and gain limits and requirements for industrial signal boosters.

The EUT was connected to the test setup according to the following diagram:



FCC Part 22/24/27/90 Industrial signal booster – Test Setup; RF Output Power / Gain

The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.2.2 TEST REQUIREMENTS/LIMITS

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§ 27.50

- (j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:
 - (4) Equipment employed must be authorized in accordance with the provisions of § 27.51. 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 (j)(5) of this section. 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.

5.2.3 TEST PROTOCOL

| 37T, segment 1; downlink | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|------------------|------------------------|-----------------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | PAPR [dB] | Limit PAPR [dB] | Margin to Limit [dB] |
| Wideband | 0.3 dB < AGC | 3797.0 | -4.4 | 8.4 | 13.0 | 4.6 |
| Wideband | 3 dB > AGC | 3797.0 | -1.2 | 8.3 | 13.0 | 4.7 |
| Wideband 5G | 0.3 dB < AGC | 3750.0 | -4.1 | 8.4 | 13.0 | 4.6 |
| Wideband 5G | 3 dB > AGC | 3750.0 | -0.8 | 8.5 | 13.0 | 4.5 |

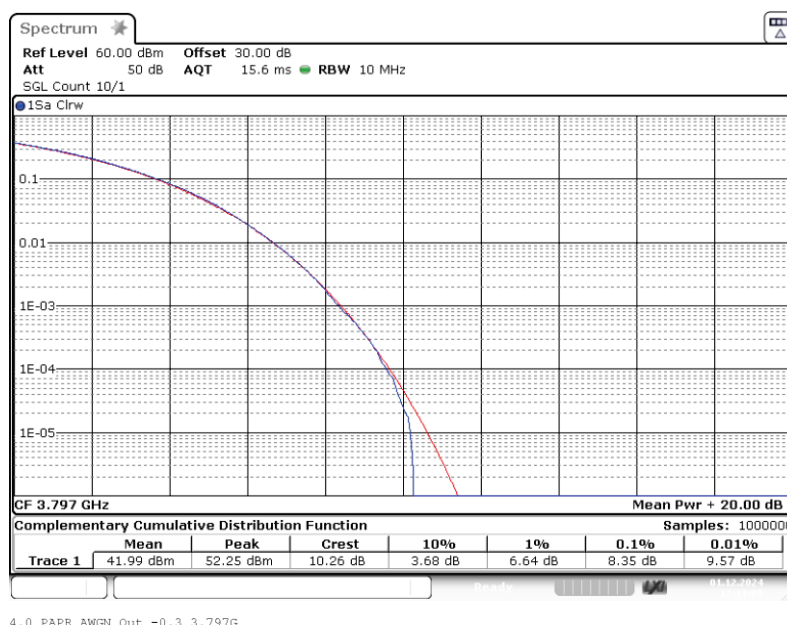
| 37T, segment 2; downlink | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|------------------|------------------------|-----------------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | PAPR [dB] | Limit PAPR [dB] | Margin to Limit [dB] |
| Wideband | 0.3 dB < AGC | 3792.0 | -4.2 | 8.3 | 13.0 | 4.7 |
| Wideband | 3 dB > AGC | 3792.0 | -1.2 | 8.3 | 13.0 | 4.7 |
| Wideband 5G | 0.3 dB < AGC | 3840.0 | -4.1 | 8.4 | 13.0 | 4.6 |
| Wideband 5G | 3 dB > AGC | 3840.0 | -0.7 | 8.5 | 13.0 | 4.5 |

| 37T, segment 3; downlink | | | | | | |
|---------------------------------|--------------------|------------------------|--------------------------|------------------|------------------------|-----------------------------|
| Signal Type | Input Power | Frequency [MHz] | Input Power [dBm] | PAPR [dB] | Limit PAPR [dB] | Margin to Limit [dB] |
| Wideband | 0.3 dB < AGC | 3882.6 | -4.1 | 8.4 | 13.0 | 4.6 |
| Wideband | 3 dB > AGC | 3882.6 | -0.9 | 8.4 | 13.0 | 4.6 |
| Wideband 5G | 0.3 dB < AGC | 3930.0 | -3.8 | 8.5 | 13.0 | 4.5 |
| Wideband 5G | 3 dB > AGC | 3930.0 | -0.5 | 8.5 | 13.0 | 4.5 |

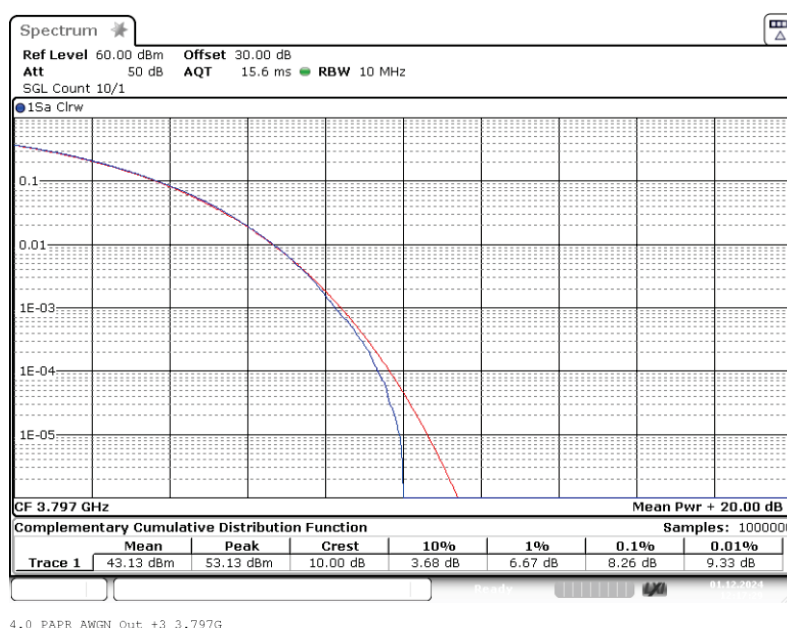
Remark: Please see next sub-clause for the measurement plot.

5.2.4 MEASUREMENT PLOT

Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
PAPR 0.3 dB < AGC



Band: TDD 37, Segment 1; Frequency: 3.7970 GHz; Band Edge: f0; Mod: AWGN;
PAPR 3 dB > AGC

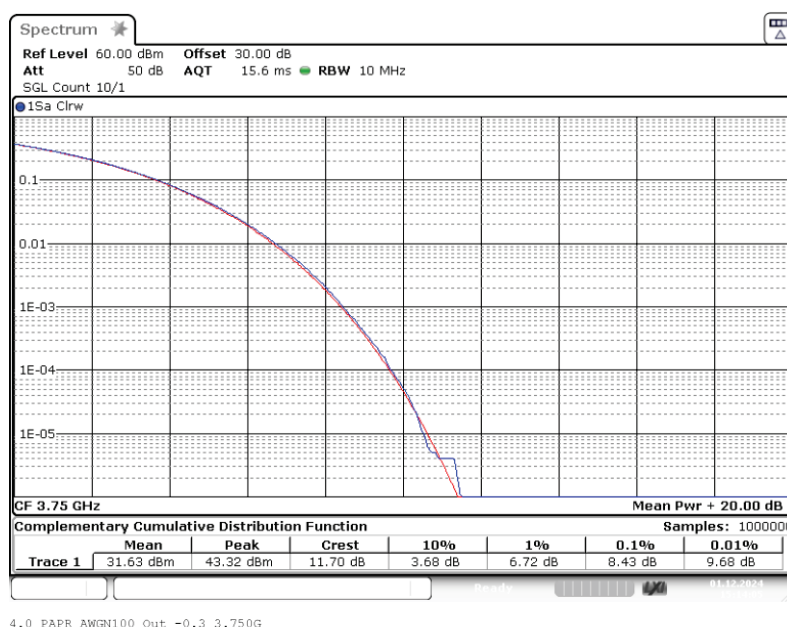


The test results relate only to the tested item. The sample has been provided by the client.
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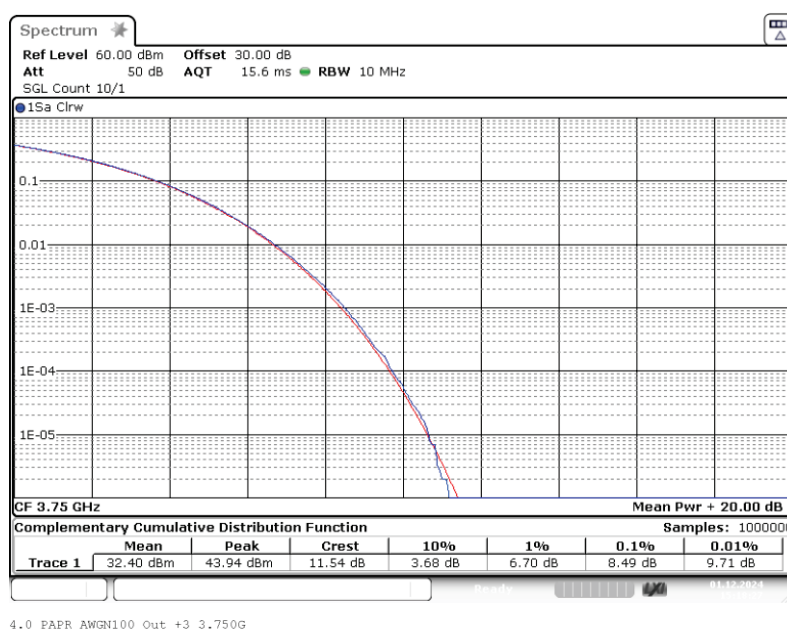
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 0.3 dB < AGC

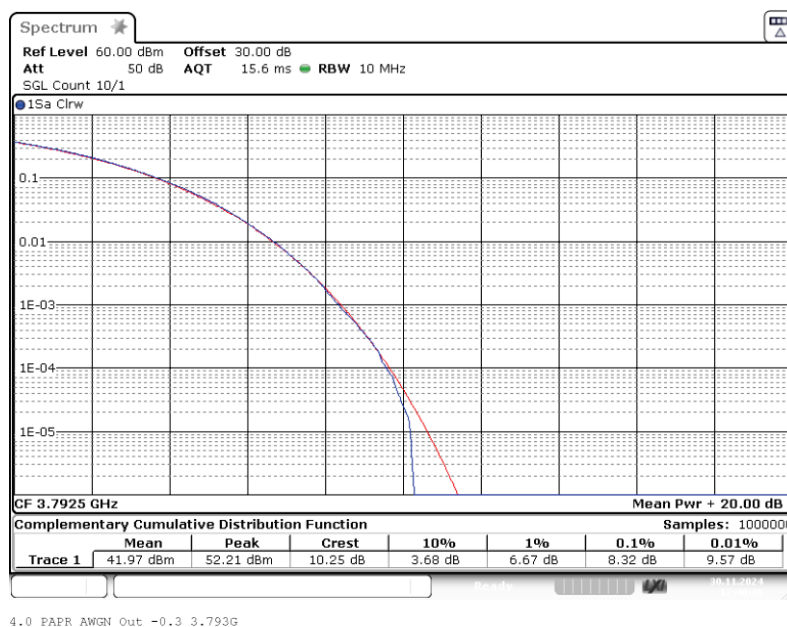


Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 3 dB > AGC

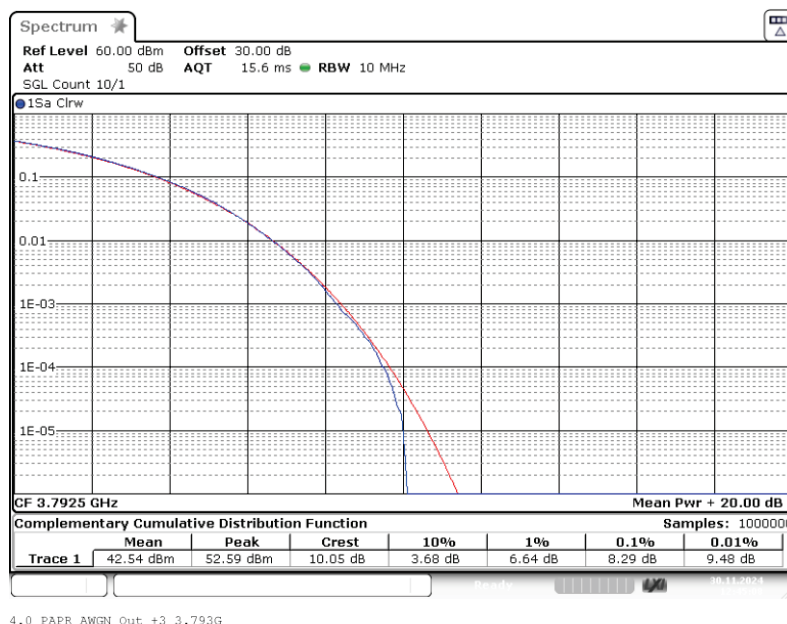


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
PAPR 0.3 dB < AGC

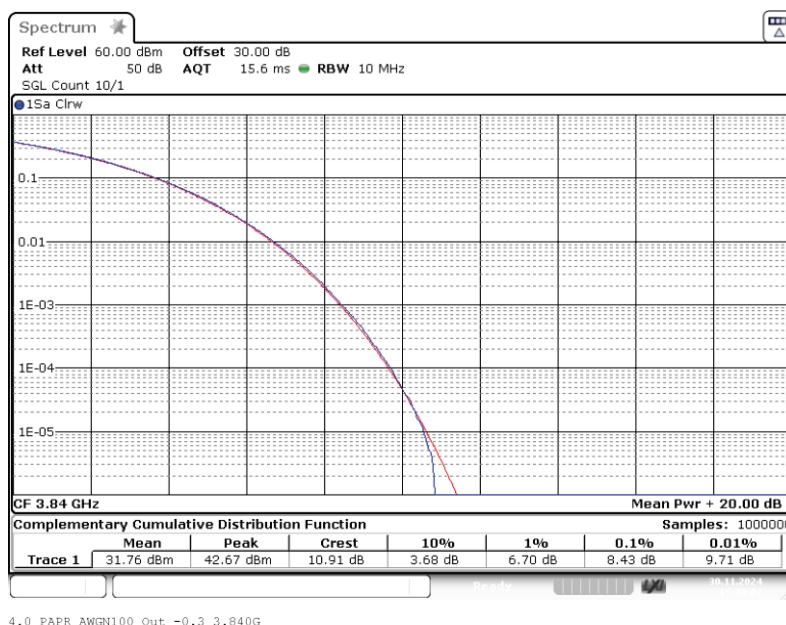


Band: TDD 37, Segment 2; Frequency: 3.7925 GHz; Band Edge: f0; Mod: AWGN;
PAPR 3 dB > AGC

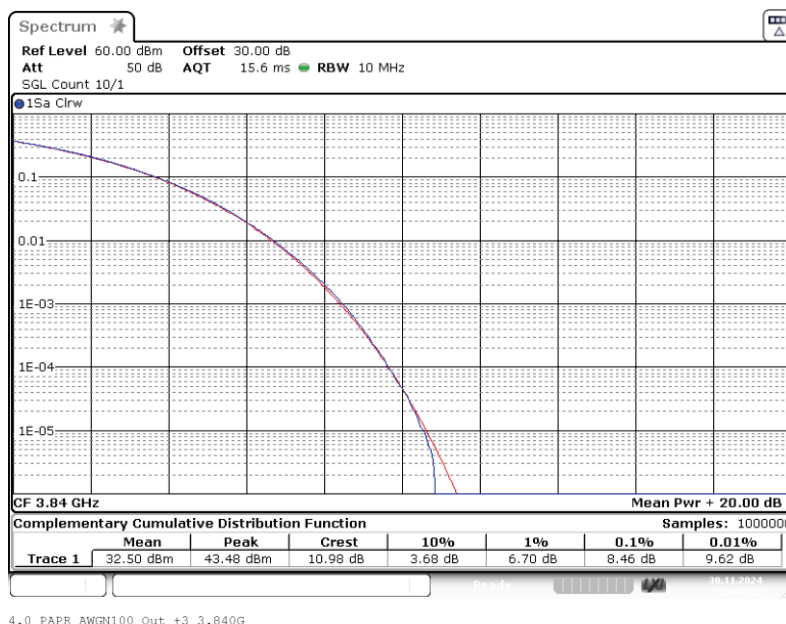


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 0.3 dB < AGC

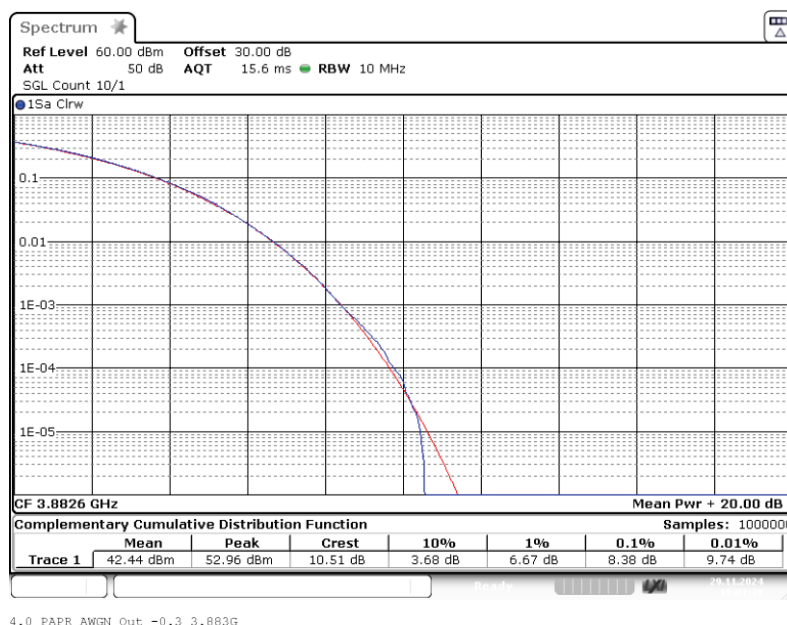


Band: TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 3 dB > AGC

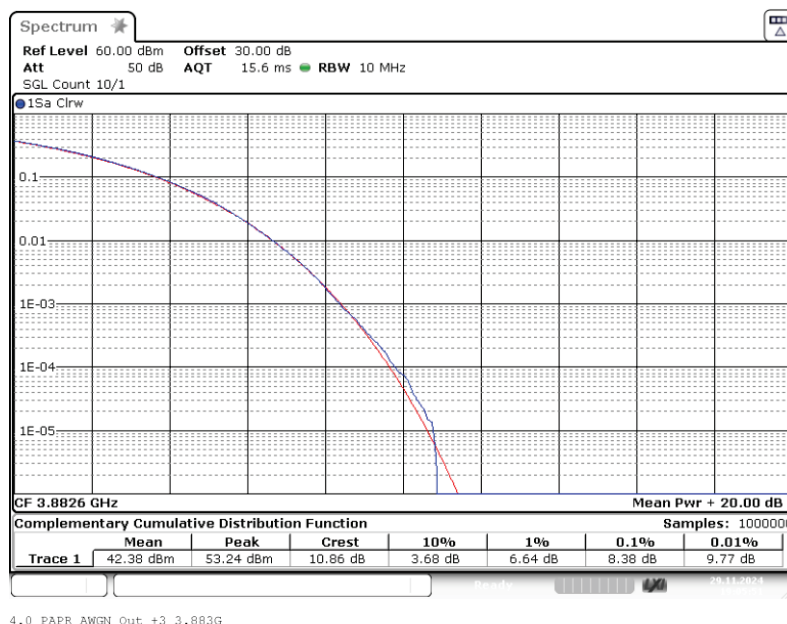


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
PAPR 0.3 dB < AGC

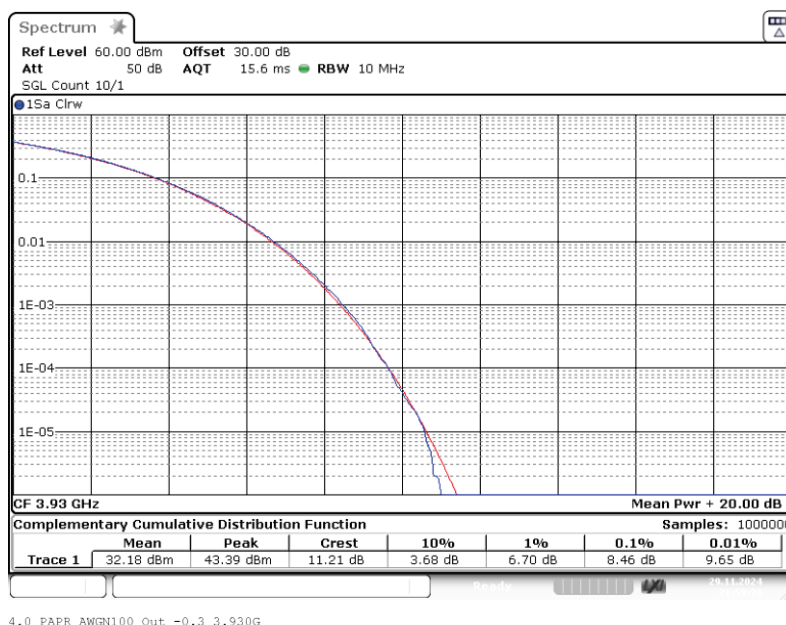


Band: TDD 37, Segment 3; Frequency: 3.8826 GHz; Band Edge: f0; Mod: AWGN;
PAPR 3 dB > AGC

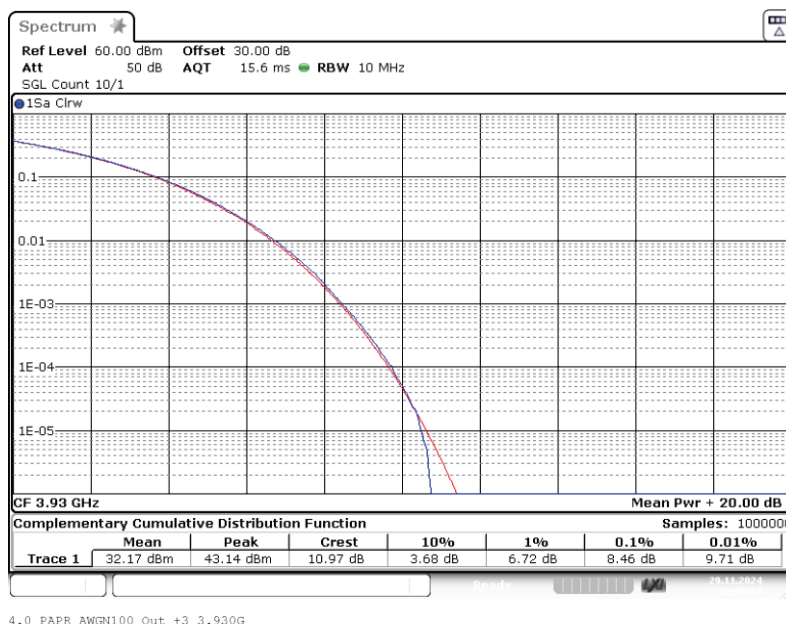


The test results relate only to the tested item. The sample has been provided by the client.
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Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 0.3 dB < AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
PAPR 3 dB > AGC



The test results relate only to the tested item. The sample has been provided by the client.
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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.2.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.

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2024-0349-EMC-TR-24-0197-V02

5.3 OCCUPIED BANDWIDTH/INPUT-VERSUS-OUTPUT SPECTRUM

Standard FCC Part 2.1049; Occupied Bandwidth

The test was performed according to:

ANSI C63.26.KDB 935210 D05 v01r04: 3.4

Test date: 2024-11-29 – 2024-12-01

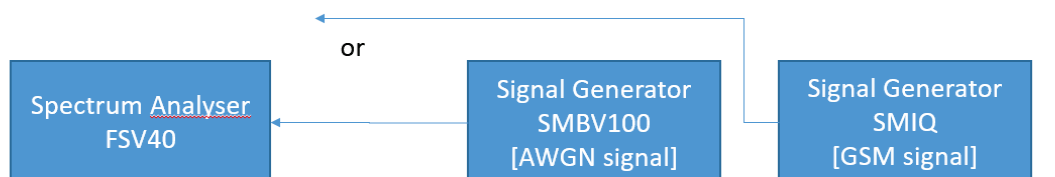
Environmental conditions: 24.7 °C; 20 % r. F.

Test engineer: Thomas Hufnagel

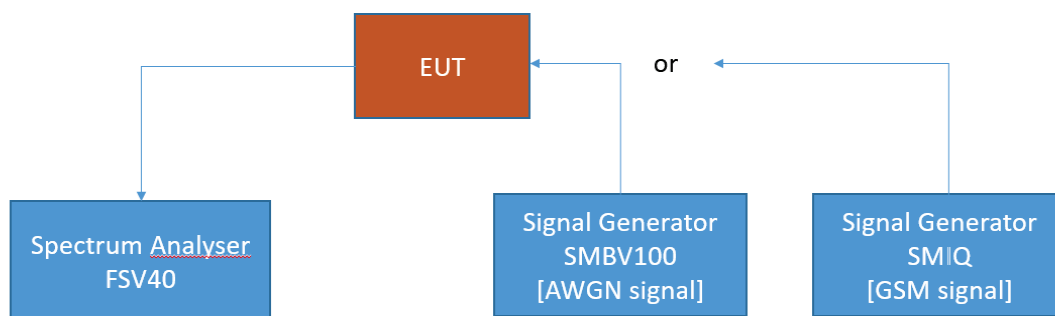
5.3.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the applicable conducted spurious emission limits per FCC §2.1049

The EUT was connected to the test setups according to the following diagram:



FCC Part 22/24/27/90; Industrial Signal Booster
Test Setup step 1: Measuring characteristics of test signals



FCC Part 22/24/27/90; Industrial Signal Booster
Test Setup step 2; Occupied Bandwidth/Input-versus-output spectrum

The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.3.2 TEST REQUIREMENTS/LIMITS

FCC Part 2.1049; Occupied Bandwidth:

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

(h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user.

(i) Transmitters designed for other types of modulation—when modulated by an appropriate signal of sufficient amplitude to be representative of the type of service in which used. A description of the input signal should be supplied.

5.3.3 TEST PROTOCOL

| 37T, segment 1; downlink | | | | | | | |
|--------------------------|--------------|------------------------|-----------------------------|----------------------------------|--------------------------------|--------------------------------------|-----------------------|
| Signal Type | Input Power | Signal Frequency [MHz] | Occupied Bandwidth SG [kHz] | Occupied Bandwidth Booster [kHz] | Delta Occupied Bandwidth [kHz] | Limit Delta Occupied Bandwidth [kHz] | Margin to Limit [kHz] |
| Wideband | 0.3 dB < AGC | 3750.0 | 4389.0 | 4387.8 | 1.2 | 205.0 | 203.8 |
| Wideband | 3 dB > AGC | 3750.0 | 4387.8 | 4388.4 | 0.6 | 205.0 | 204.4 |
| Wideband 5G | 0.3 dB < AGC | 3750.0 | 103645 | 103225 | 420 | 4915 | 4495 |
| Wideband 5G | 3 dB > AGC | 3750.0 | 103225 | 103045 | 180 | 4915 | 4735 |

| 37T, segment 2; downlink | | | | | | | |
|--------------------------|--------------|------------------------|-----------------------------|----------------------------------|--------------------------------|--------------------------------------|-----------------------|
| Signal Type | Input Power | Signal Frequency [MHz] | Occupied Bandwidth SG [kHz] | Occupied Bandwidth Booster [kHz] | Delta Occupied Bandwidth [kHz] | Limit Delta Occupied Bandwidth [kHz] | Margin to Limit [kHz] |
| Wideband | 0.3 dB < AGC | 3840.0 | 4386.6 | 4386.0 | 0.6 | 205.0 | 204.4 |
| Wideband | 3 dB > AGC | 3840.0 | 4388.4 | 4387.2 | 1.2 | 205.0 | 203.8 |
| Wideband 5G | 0.3 dB < AGC | 3840.0 | 103465 | 103195 | 270 | 4915 | 4645 |
| Wideband 5G | 3 dB > AGC | 3840.0 | 103270 | 103360 | 90 | 4915 | 4825 |

| 37T, segment 3; downlink | | | | | | | |
|--------------------------|--------------|------------------------|-----------------------------|----------------------------------|--------------------------------|--------------------------------------|-----------------------|
| Signal Type | Input Power | Signal Frequency [MHz] | Occupied Bandwidth SG [kHz] | Occupied Bandwidth Booster [kHz] | Delta Occupied Bandwidth [kHz] | Limit Delta Occupied Bandwidth [kHz] | Margin to Limit [kHz] |
| Wideband | 0.3 dB < AGC | 3930.0 | 4392.1 | 4386.6 | 5.5 | 205.0 | 199.5 |
| Wideband | 3 dB > AGC | 3930.0 | 4388.4 | 4480.7 | 92.3 | 205.0 | 112.8 |
| Wideband 5G | 0.3 dB < AGC | 3930.0 | 103405 | 103345 | 60 | 4915 | 4855 |
| Wideband 5G | 3 dB > AGC | 3930.0 | 103195 | 103090 | 105 | 4915 | 4810 |

Remark: Please see next sub-clause for the measurement plot.

The test results relate only to the tested item. The sample has been provided by the client.

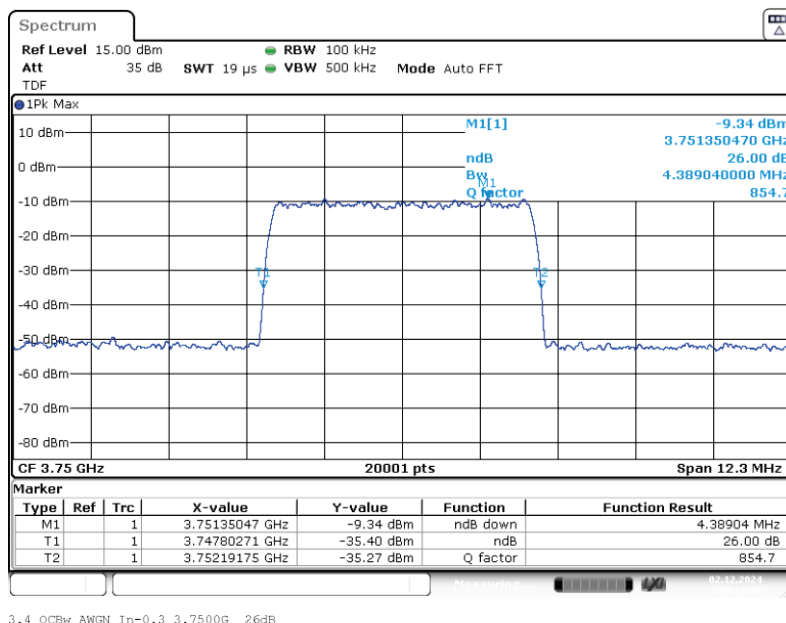
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EMC Test Report No.: 24-0197

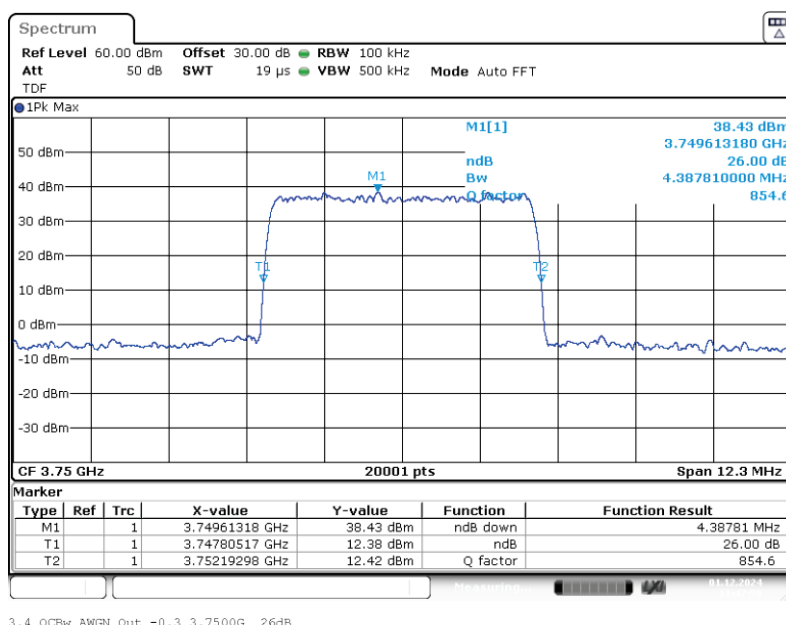
EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.3.4 MEASUREMENT PLOT

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN;
Input OCBw 0.3 dB < AGC



Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC

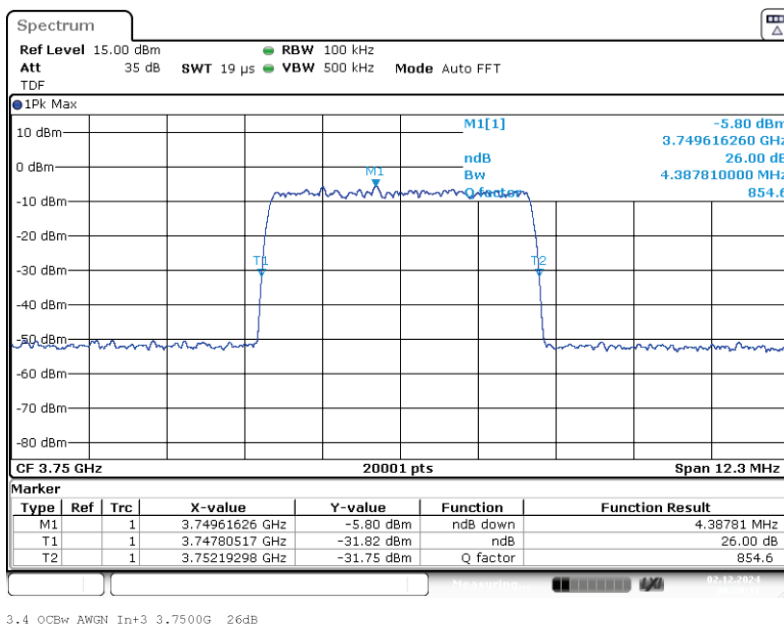


The test results relate only to the tested item. The sample has been provided by the client.
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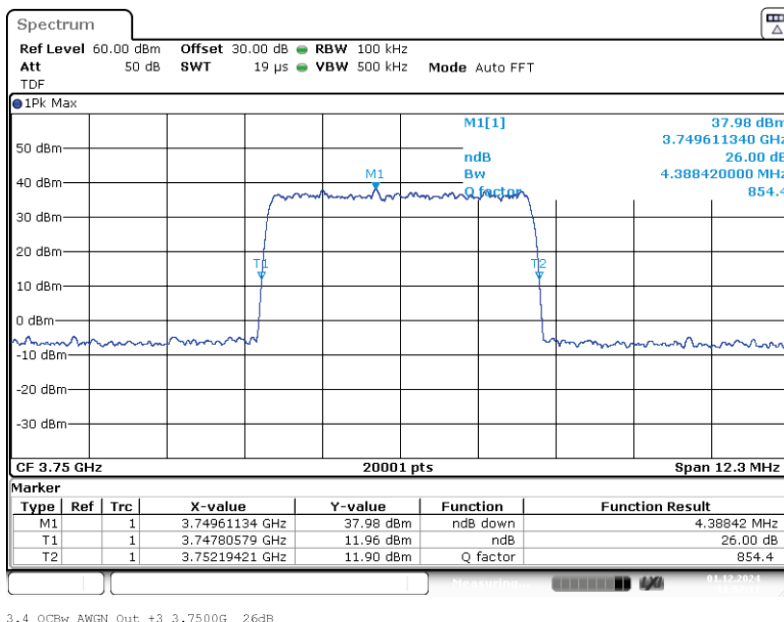
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN;
Input OCBw 3 dB > AGC



Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 3 dB > AGC

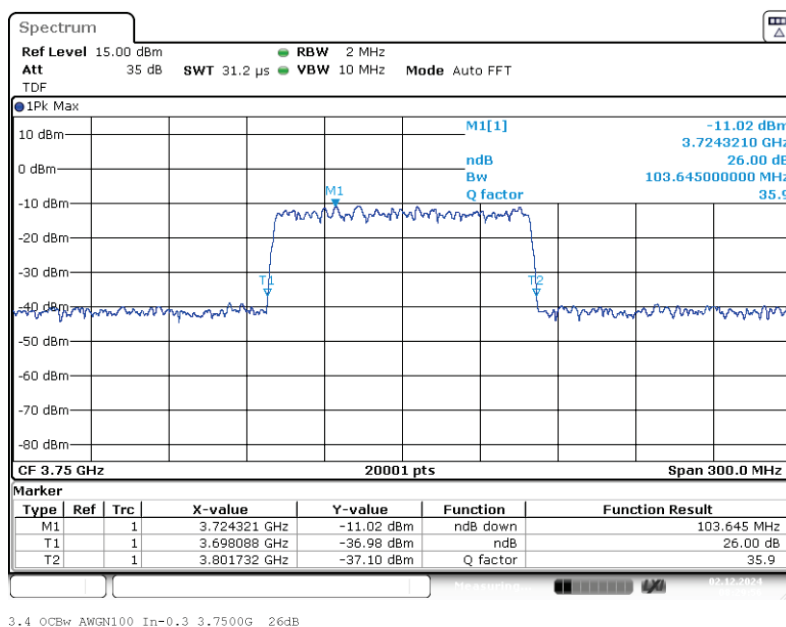


The test results relate only to the tested item. The sample has been provided by the client.
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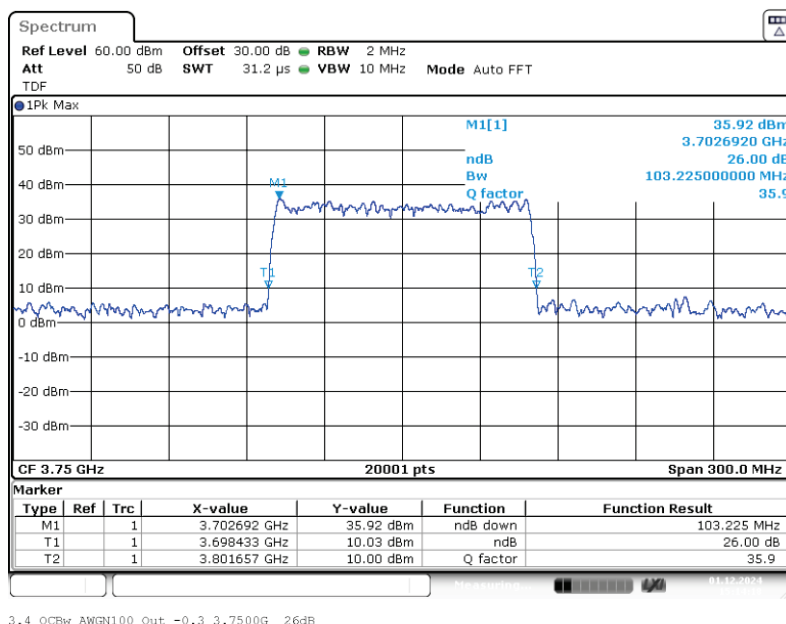
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 0.3 dB < AGC



Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 0.3 dB < AGC

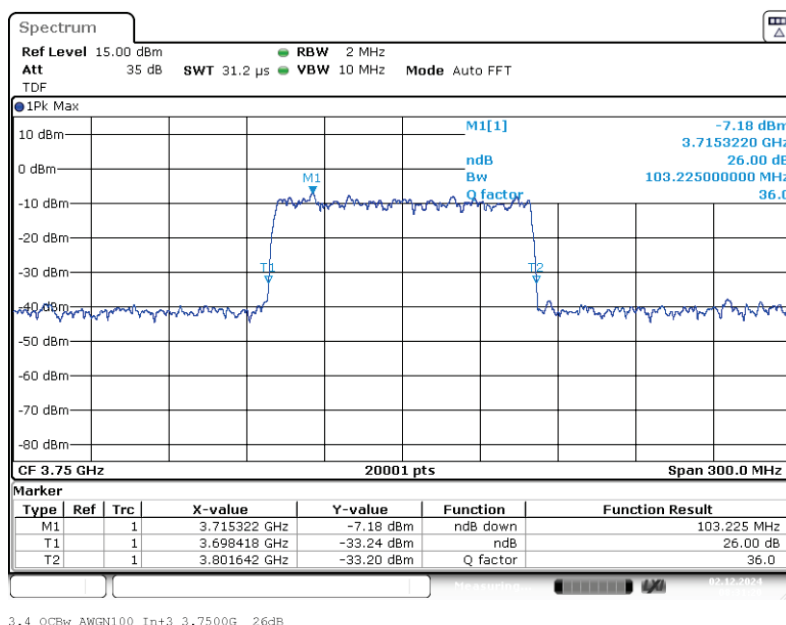


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

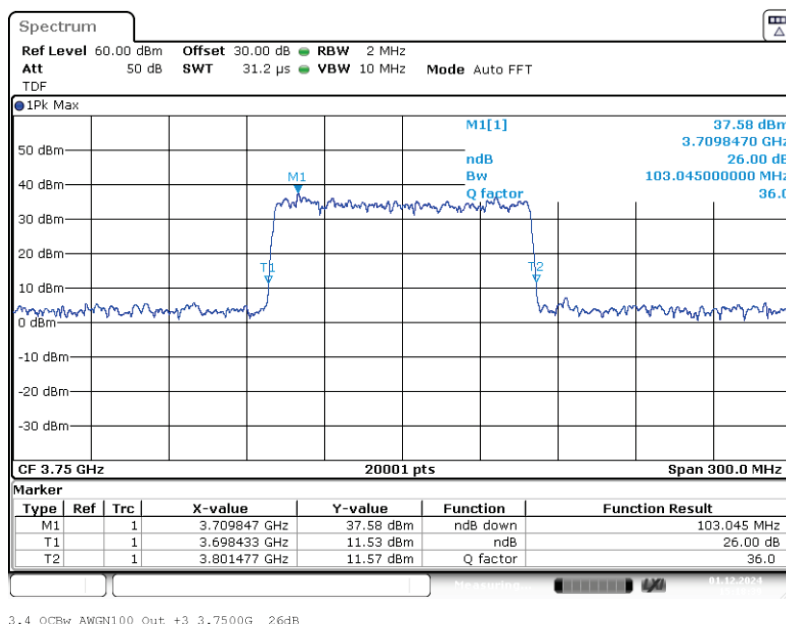
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 3 dB > AGC



Band: TDD 37, Segment 1; Frequency: 3.7500 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 3 dB > AGC

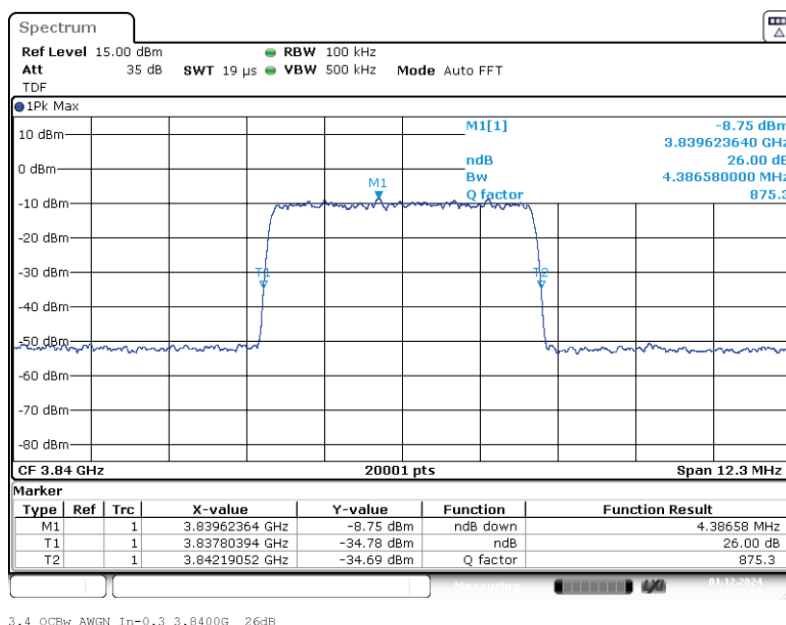


The test results relate only to the tested item. The sample has been provided by the client.
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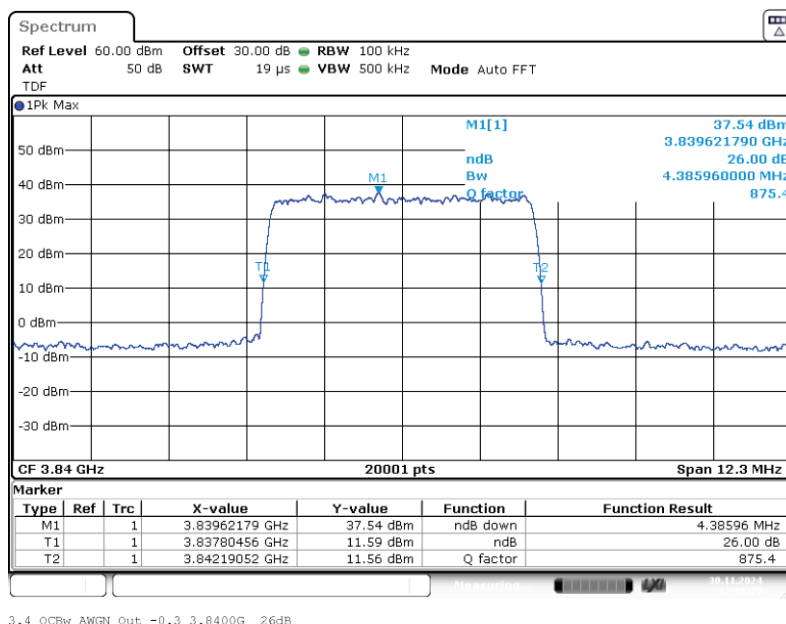
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN;
Input OCBw 0.3 dB < AGC



Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC

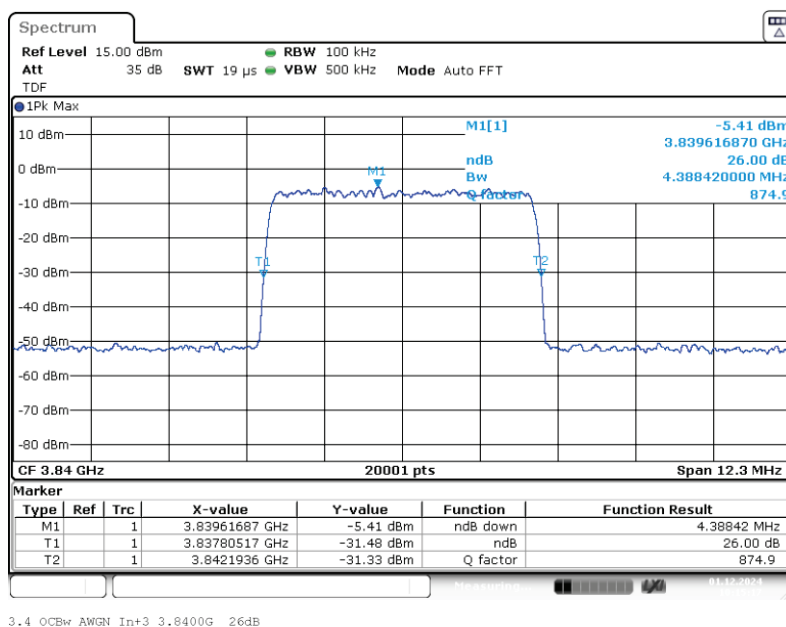


The test results relate only to the tested item. The sample has been provided by the client.
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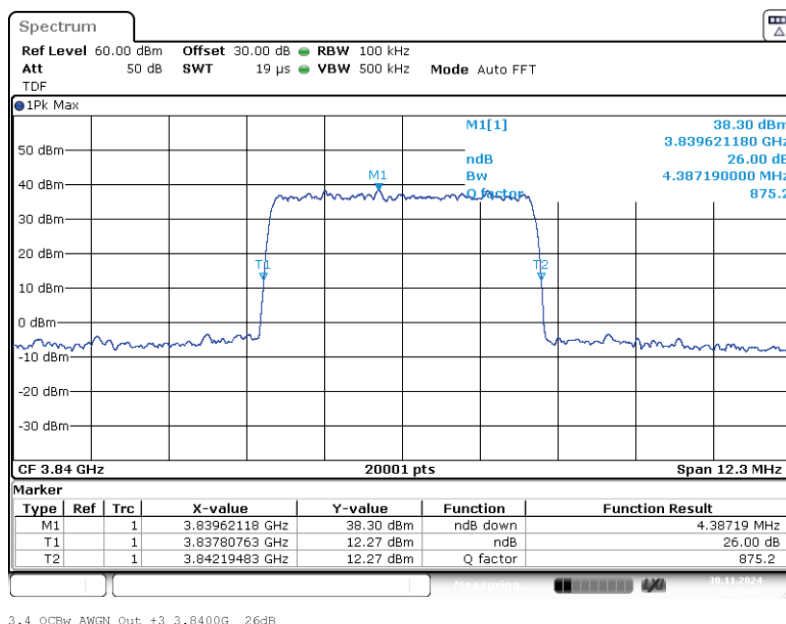
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN;
Input OCBw 3 dB > AGC



Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 3 dB > AGC

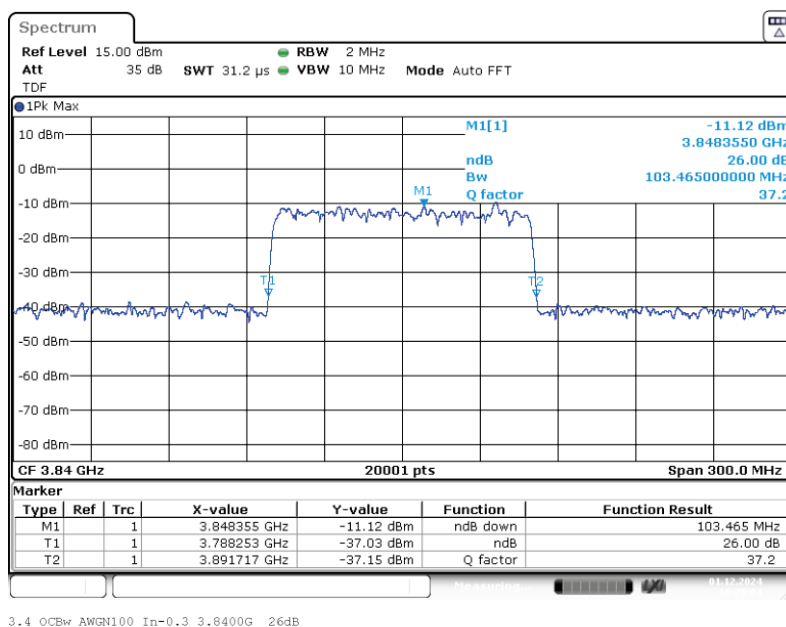


The test results relate only to the tested item. The sample has been provided by the client.
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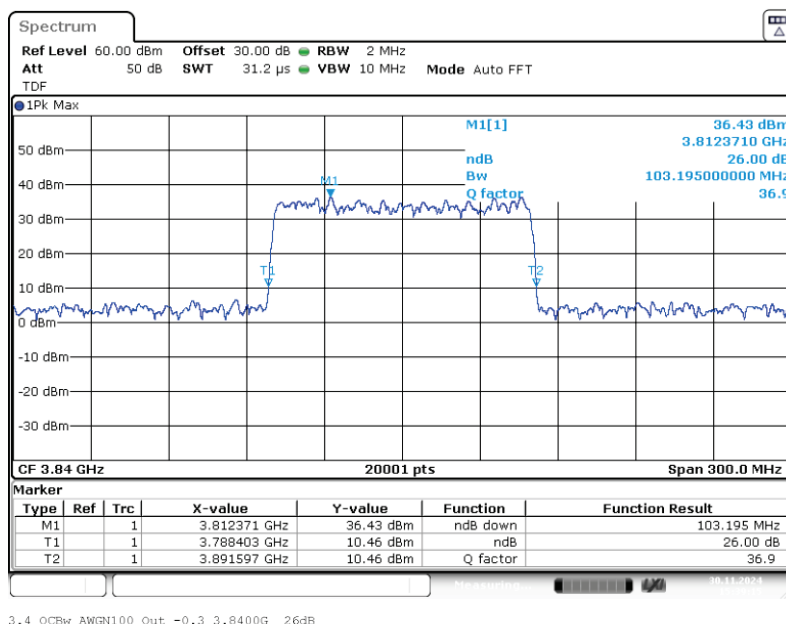
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 0.3 dB < AGC



Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 0.3 dB < AGC

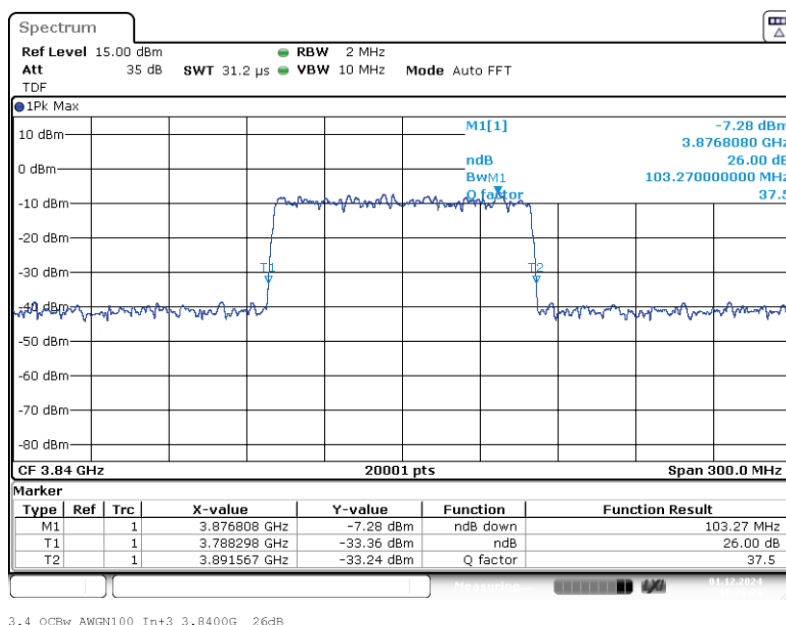


The test results relate only to the tested item. The sample has been provided by the client.
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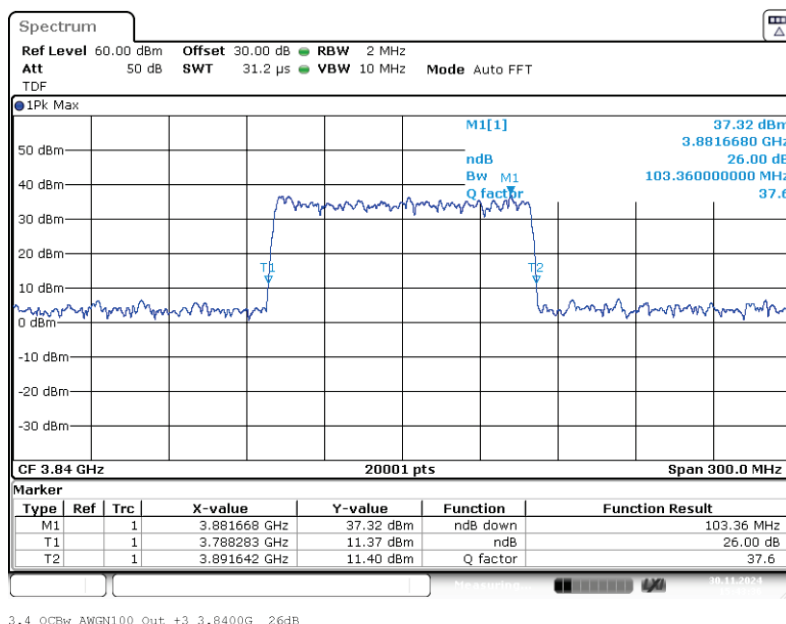
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 3 dB > AGC



Band: ,TDD 37, Segment 2; Frequency: 3.8400 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 3 dB > AGC



The test results relate only to the tested item. The sample has been provided by the client.
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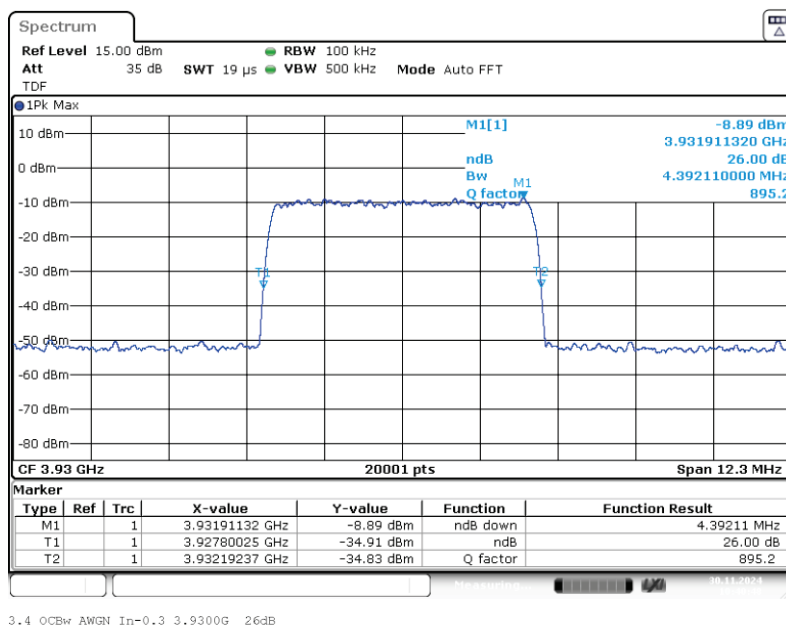


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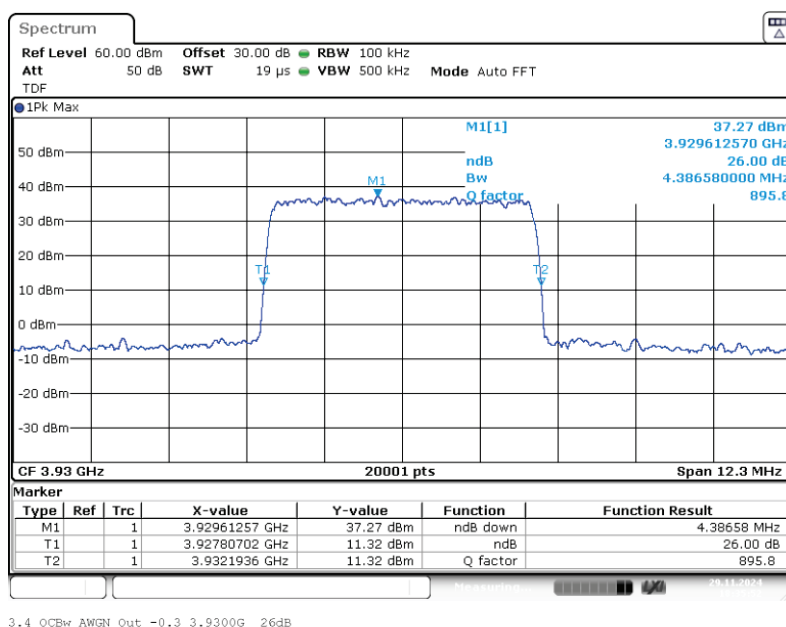
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN
Input OCBw 0.3 dB < AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC

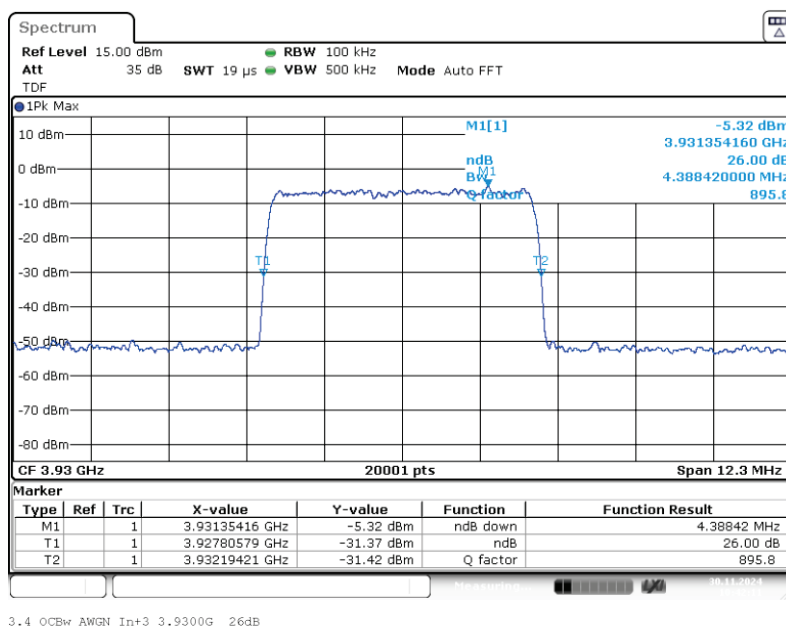


The test results relate only to the tested item. The sample has been provided by the client.
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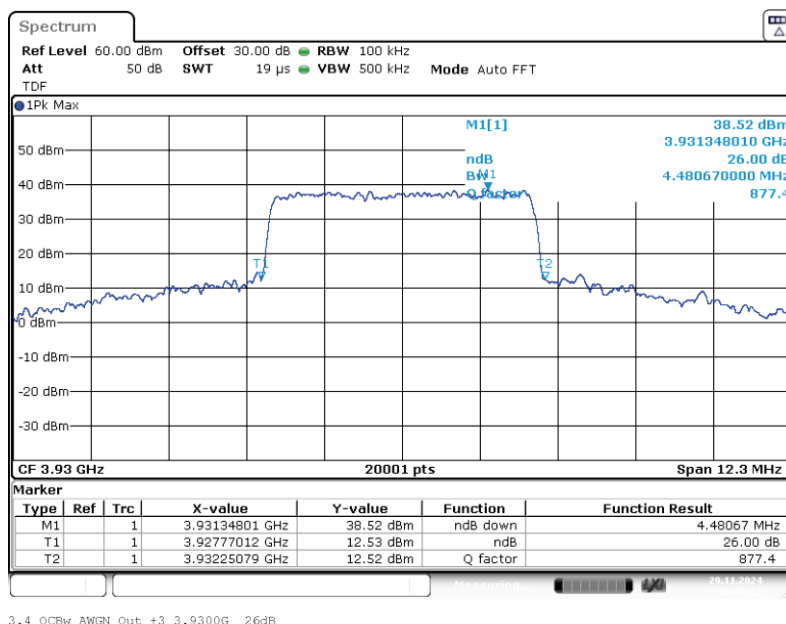
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN;
Input OCBw 3 dB > AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN;
Output OCBw 3 dB > AGC

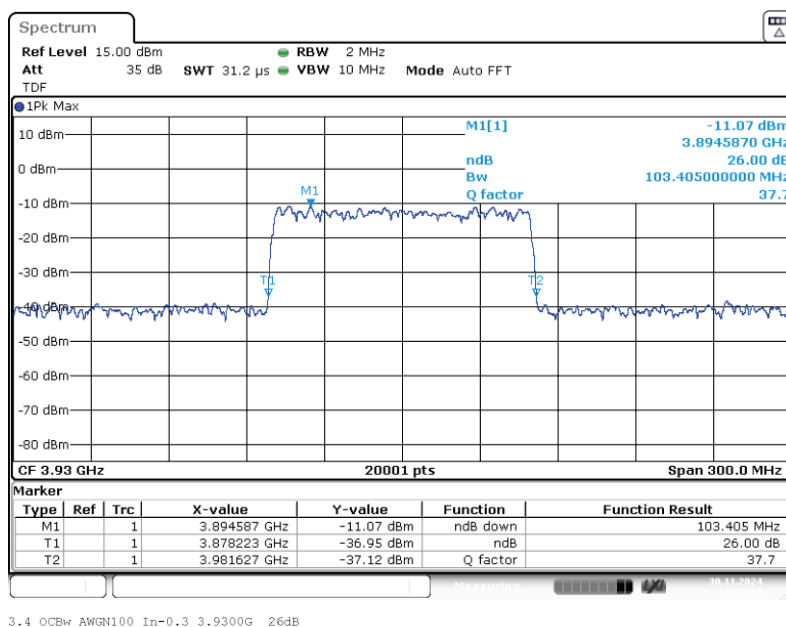


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

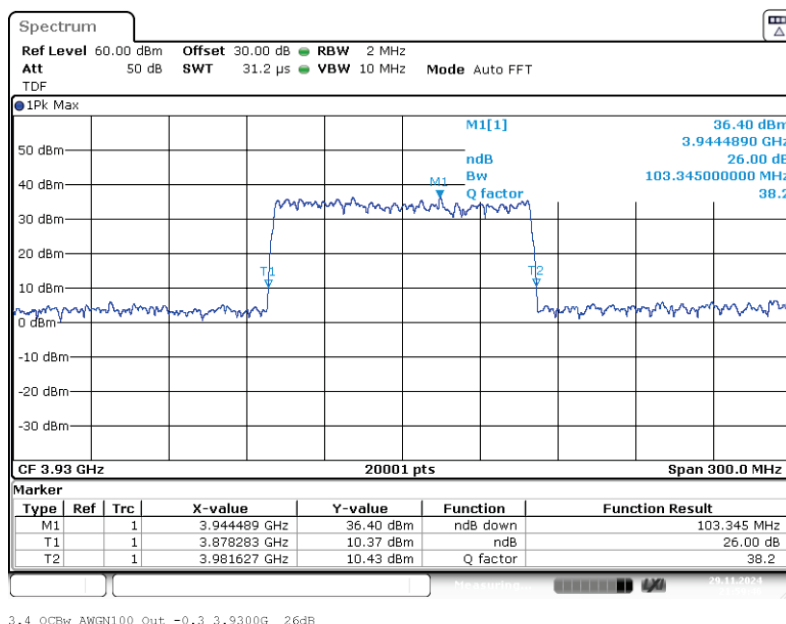
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 0.3 dB < AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 0.3 dB < AGC

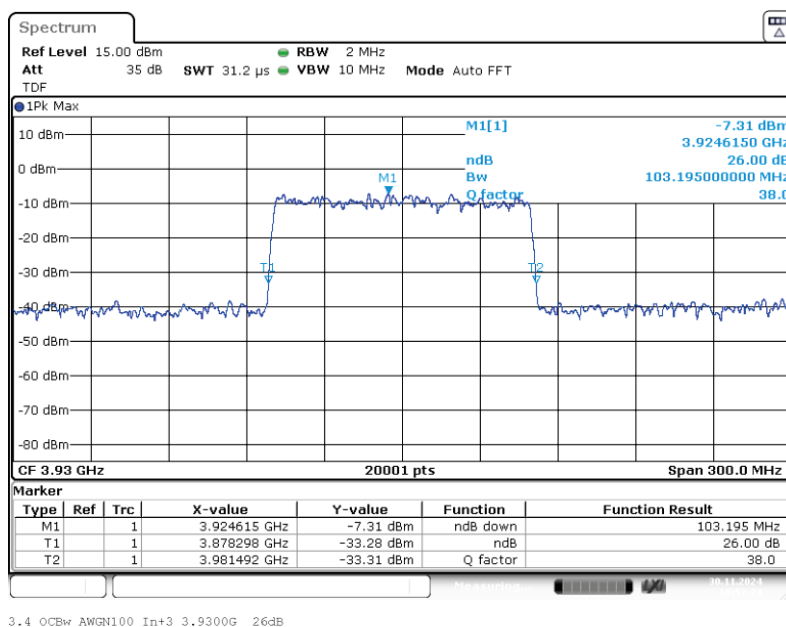


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

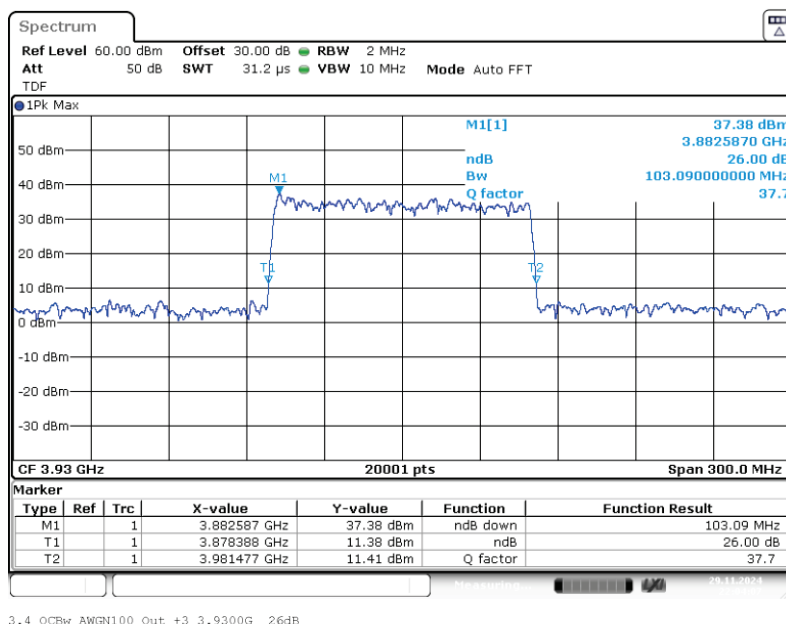
EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Input OCBw 3 dB > AGC



Band: TDD 37, Segment 3; Frequency: 3.9300 GHz; Band Edge: mid; Mod: AWGN100;
Output OCBw 3 dB > AGC



The test results relate only to the tested item. The sample has been provided by the client.
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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.3.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.

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2024-0349-EMC-TR-24-0197-V02

EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

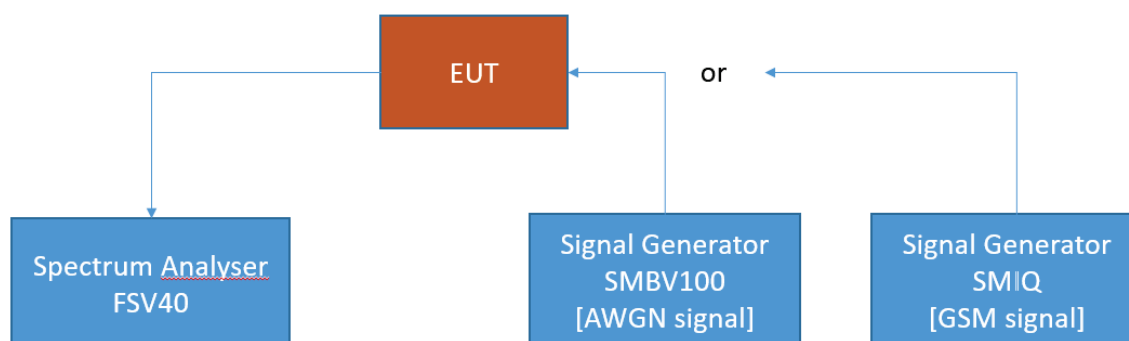
5.4 CONDUCTED SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Standard FCC Part §2.1051. §27.53

The test was performed according to:
ANSI C63.26**Test date:** 2024-12-04 – 2024-12-05**Environmental conditions:** 26.3 ° C; 22 % r. F.**Test engineer:** Thomas Hufnagel**5.4.1 TEST DESCRIPTION**

This test case is intended to demonstrate compliance to the signal booster power and gain limits and requirements for industrial signal boosters.

The EUT was connected to the test setup according to the following diagram:



FCC Part 22/24/27/90 Industrial signal booster – Test Setup; RF Output Power / Gain

The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.



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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

5.4.2 TEST REQUIREMENTS/LIMITS

FCC Part 2.1051; Measurement required: Spurious emissions at antenna terminal:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

The test results relate only to the tested item. The sample has been provided by the client.

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2024-0349-EMC-TR-24-0197-V02

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§27.53 – Emission limits

- (I) **3.7 GHz Service.** The following emission limits apply to stations transmitting in the 3700-3980 MHz band:
- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.
 - (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.



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5.4.3 TEST PROTOCOL

General considerations concerning the limits:

The measuring bandwidth of 1 MHz was chosen according the test requirements except at the band edges: At the band edges reducing of measurement bandwidth was necessary to prevent overlaying the RF-signal over the spurious emissions.

Also outside the downlink frequency band at lower frequencies the measurement bandwidths were reduced to have the possibility to record the spurious emissions at these lower frequencies.

At frequencies where measuring bandwidths were reduced also the limit lines were reduced according the given formula:

$$p_{RBWreduced} [dBm] = 10 * \log \left(\frac{RBWreduced [kHz]}{1000 kHz} \right) + p_{RBW 1000 kHz} [dBm]$$

Hereby "p" are the limit lines' values.

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EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

| 37 TDD, segment 1;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband | 0.01082 | -49.9 | RMS | 1 | -43.0 | 6.9 |
| low | Wideband | 0.14748 | -43.7 | RMS | 10 | -33.0 | 10.7 |
| low | Wideband | 810.4 | -33.5 | RMS | 100 | -23.0 | 10.5 |
| low | Wideband | 3621.8 | -24.4 | RMS | 1000 | -13.0 | 11.4 |
| low | Wideband | 3646.3 | -25.8 | RMS | 1000 | -13.0 | 12.8 |
| low | Wideband | 3802.9 | -33.8 | RMS | 100 | -23.0 | 10.8 |
| low | Wideband | 3840.2 | -15.3 | RMS | 1000 | -13.0 | 2.3 |
| low | Wideband | 6807.6 | -21.0 | RMS | 1000 | -13.0 | 8.0 |
| low | Wideband | 19543.8 | -21.9 | RMS | 1000 | -13.0 | 8.9 |
| low | Wideband | 19883.8 | -22.6 | RMS | 1000 | -13.0 | 9.6 |
| low | Wideband | 30313.0 | -24.3 | RMS | 1000 | -13.0 | 11.3 |
| low | Wideband | 39958.8 | -25.9 | RMS | 1000 | -13.0 | 12.9 |
| mid | Wideband | 0.01205 | -50.4 | RMS | 1 | -43.0 | 7.4 |
| mid | Wideband | 0.15748 | -44.0 | RMS | 10 | -33.0 | 11.0 |
| mid | Wideband | 800.2 | -33.5 | RMS | 100 | -23.0 | 10.5 |
| mid | Wideband | 3653.8 | -25.4 | RMS | 1000 | -13.0 | 12.4 |
| mid | Wideband | 3698.6 | -34.2 | RMS | 100 | -23.0 | 11.2 |
| mid | Wideband | 3802.9 | -33.6 | RMS | 100 | -23.0 | 10.6 |
| mid | Wideband | 3840.2 | -20.1 | RMS | 1000 | -13.0 | 7.1 |
| mid | Wideband | 6811.1 | -20.9 | RMS | 1000 | -13.0 | 7.9 |
| mid | Wideband | 19997.2 | -21.4 | RMS | 1000 | -13.0 | 8.4 |
| mid | Wideband | 19897.8 | -22.6 | RMS | 1000 | -13.0 | 9.6 |
| mid | Wideband | 30790.9 | -24.3 | RMS | 1000 | -13.0 | 11.3 |
| mid | Wideband | 39968.3 | -25.6 | RMS | 1000 | -13.0 | 12.6 |
| high | Wideband | 0.01009 | -50.5 | RMS | 1 | -43.0 | 7.5 |
| high | Wideband | 0.14748 | -44.2 | RMS | 10 | -33.0 | 11.2 |
| high | Wideband | 952.3 | -33.1 | RMS | 100 | -23.0 | 10.1 |
| high | Wideband | 3652.3 | -25.1 | RMS | 1000 | -13.0 | 12.1 |
| high | Wideband | 3694.2 | -34.2 | RMS | 100 | -23.0 | 11.2 |
| high | Wideband | 3771.4 | -28.4 | RMS | 100 | 60.0 | 88.4 |
| high | Wideband | 3840.2 | -14.1 | RMS | 1000 | -13.0 | 1.1 |
| high | Wideband | 6918.6 | -20.9 | RMS | 1000 | -13.0 | 7.9 |
| high | Wideband | 19565.3 | -21.9 | RMS | 1000 | -13.0 | 8.9 |
| high | Wideband | 19972.8 | -22.2 | RMS | 1000 | -13.0 | 9.2 |
| high | Wideband | 30779.4 | -24.5 | RMS | 1000 | -13.0 | 11.5 |
| high | Wideband | 39984.3 | -25.6 | RMS | 1000 | -13.0 | 12.6 |

The test results relate only to the tested item. The sample has been provided by the client.

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**EMC Test Report No.: 24-0197**

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]



| 37 TDD, segment 1;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband 5G | 0.010454 | -50.0 | RMS | 1 | -43.0 | 7.0 |
| low | Wideband 5G | 0.07750 | -44.1 | RMS | 10 | -33.0 | 11.1 |
| low | Wideband 5G | 953.2 | -33.1 | RMS | 100 | -23.0 | 10.1 |
| low | Wideband 5G | 3583.3 | -25.0 | RMS | 1000 | -13.0 | 12.0 |
| low | Wideband 5G | 3697.1 | -30.9 | RMS | 100 | -23.0 | 7.9 |
| low | Wideband 5G | 3802.1 | -29.4 | RMS | 100 | -23.0 | 6.4 |
| low | Wideband 5G | 3816.2 | -20.3 | RMS | 1000 | -13.0 | 7.3 |
| low | Wideband 5G | 6841.1 | -21.0 | RMS | 1000 | -13.0 | 8.0 |
| low | Wideband 5G | 19561.3 | -21.9 | RMS | 1000 | -13.0 | 8.9 |
| low | Wideband 5G | 19963.3 | -22.0 | RMS | 1000 | -13.0 | 9.0 |
| low | Wideband 5G | 30987.4 | -24.6 | RMS | 1000 | -13.0 | 11.6 |
| low | Wideband 5G | 39950.3 | -26.1 | RMS | 1000 | -13.0 | 13.1 |
| mid | Wideband 5G | 0.00902 | -49.9 | RMS | 1 | -43.0 | 6.9 |
| mid | Wideband 5G | 0.15248 | -44.5 | RMS | 10 | -33.0 | 11.5 |
| mid | Wideband 5G | 950.6 | -33.0 | RMS | 100 | -23.0 | 10.0 |
| mid | Wideband 5G | 3681.8 | -24.7 | RMS | 1000 | -13.0 | 11.7 |
| mid | Wideband 5G | 3698.6 | -30.5 | RMS | 100 | -23.0 | 7.5 |
| mid | Wideband 5G | 3807.5 | -29.2 | RMS | 100 | -23.0 | 6.2 |
| mid | Wideband 5G | 3840.2 | -20.3 | RMS | 1000 | -13.0 | 7.3 |
| mid | Wideband 5G | 6817.1 | -20.7 | RMS | 1000 | -13.0 | 7.7 |
| mid | Wideband 5G | 19622.3 | -21.6 | RMS | 1000 | -13.0 | 8.6 |
| mid | Wideband 5G | 19904.3 | -22.2 | RMS | 1000 | -13.0 | 9.2 |
| mid | Wideband 5G | 30782.9 | -24.1 | RMS | 1000 | -13.0 | 11.1 |
| mid | Wideband 5G | 39974.3 | -25.3 | RMS | 1000 | -13.0 | 12.3 |
| high | Wideband 5G | 0.00910 | -48.6 | RMS | 1 | -43.0 | 5.6 |
| high | Wideband 5G | 0.06750 | -44.5 | RMS | 10 | -33.0 | 11.5 |
| high | Wideband 5G | 810.3 | -32.2 | RMS | 100 | -23.0 | 9.2 |
| high | Wideband 5G | 3622.8 | -24.9 | RMS | 1000 | -13.0 | 11.9 |
| high | Wideband 5G | 3698.3 | -31.1 | RMS | 100 | -23.0 | 8.1 |
| high | Wideband 5G | 3801.4 | -29.2 | RMS | 100 | -23.0 | 6.2 |
| high | Wideband 5G | 3809.7 | -20.7 | RMS | 1000 | -13.0 | 7.7 |
| high | Wideband 5G | 6975.6 | -20.6 | RMS | 1000 | -13.0 | 7.6 |
| high | Wideband 5G | 17909.9 | -21.6 | RMS | 1000 | -13.0 | 8.6 |
| high | Wideband 5G | 19969.8 | -22.0 | RMS | 1000 | -13.0 | 9.0 |
| high | Wideband 5G | 30661.4 | -24.3 | RMS | 1000 | -13.0 | 11.3 |
| high | Wideband 5G | 39983.3 | -25.7 | RMS | 1000 | -13.0 | 12.7 |

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

| 37 TDD, segment 2;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband | 0.00910 | -50.2 | RMS | 1 | -43.0 | 7.2 |
| low | Wideband | 0.15748 | -45.2 | RMS | 10 | -33.0 | 12.2 |
| low | Wideband | 950.7 | -33.5 | RMS | 100 | -23.0 | 10.5 |
| low | Wideband | 3778.8 | -23.4 | RMS | 1000 | -13.0 | 10.4 |
| low | Wideband | 3788.8 | -27.5 | RMS | 100 | -23.0 | 4.5 |
| low | Wideband | 3892.3 | -34.2 | RMS | 100 | -23.0 | 11.2 |
| low | Wideband | 4980.3 | -24.8 | RMS | 1000 | -13.0 | 11.8 |
| low | Wideband | 6881.6 | -21.6 | RMS | 1000 | -13.0 | 8.6 |
| low | Wideband | 19560.8 | -22.4 | RMS | 1000 | -13.0 | 9.4 |
| low | Wideband | 19882.8 | -23.0 | RMS | 1000 | -13.0 | 10.0 |
| low | Wideband | 30653.4 | -25.3 | RMS | 1000 | -13.0 | 12.3 |
| low | Wideband | 39958.8 | -26.5 | RMS | 1000 | -13.0 | 13.5 |
| mid | Wideband | 0.00927 | -55.4 | RMS | 1 | -43.0 | 12.4 |
| mid | Wideband | 0.06750 | -48.1 | RMS | 10 | -33.0 | 15.1 |
| mid | Wideband | 949.0 | -42.7 | RMS | 100 | -23.0 | 19.7 |
| mid | Wideband | 3774.8 | -29.9 | RMS | 1000 | -13.0 | 16.9 |
| mid | Wideband | 3785.3 | -38.5 | RMS | 100 | -23.0 | 15.5 |
| mid | Wideband | 3897.3 | -38.3 | RMS | 100 | -23.0 | 15.3 |
| mid | Wideband | 3907.2 | -29.2 | RMS | 1000 | -13.0 | 16.2 |
| mid | Wideband | 6970.6 | -30.9 | RMS | 1000 | -13.0 | 17.9 |
| mid | Wideband | 19551.8 | -31.6 | RMS | 1000 | -13.0 | 18.6 |
| mid | Wideband | 19883.8 | -32.4 | RMS | 1000 | -13.0 | 19.4 |
| mid | Wideband | 30778.9 | -33.9 | RMS | 1000 | -13.0 | 20.9 |
| mid | Wideband | 39952.3 | -37.1 | RMS | 1000 | -13.0 | 24.1 |
| high | Wideband | 0.01959 | -56.3 | RMS | 1 | -43.0 | 13.3 |
| high | Wideband | 0.07250 | -49.1 | RMS | 10 | -33.0 | 16.1 |
| high | Wideband | 950.9 | -43.1 | RMS | 100 | -23.0 | 20.1 |
| high | Wideband | 3775.8 | -29.4 | RMS | 1000 | -13.0 | 16.4 |
| high | Wideband | 3788.4 | -38.2 | RMS | 100 | -23.0 | 15.2 |
| high | Wideband | 3885.9 | 30.0 | RMS | 100 | 60.0 | 30.0 |
| high | Wideband | 6926.6 | -30.8 | RMS | 1000 | -13.0 | 17.8 |
| high | Wideband | 19560.8 | -31.3 | RMS | 1000 | -13.0 | 18.3 |
| high | Wideband | 19971.8 | -31.9 | RMS | 1000 | -13.0 | 18.9 |
| high | Wideband | 30931.4 | -33.7 | RMS | 1000 | -13.0 | 20.7 |
| high | Wideband | 39952.8 | -37.4 | RMS | 1000 | -13.0 | 24.4 |

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**EMC Test Report No.: 24-0197**

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]



| 37 TDD, segment 2;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband 5G | 0.01779 | -59.9 | RMS | 1 | -43.0 | 16.9 |
| low | Wideband 5G | 0.06250 | -53.8 | RMS | 10 | -33.0 | 20.8 |
| low | Wideband 5G | 950.8 | -43.2 | RMS | 100 | -23.0 | 20.2 |
| low | Wideband 5G | 3780.8 | -21.7 | RMS | 1000 | -13.0 | 8.7 |
| low | Wideband 5G | 3783.9 | -30.9 | RMS | 100 | -23.0 | 7.9 |
| low | Wideband 5G | 3892.1 | -29.2 | RMS | 100 | -23.0 | 6.2 |
| low | Wideband 5G | 3900.2 | -21.2 | RMS | 1000 | -13.0 | 8.2 |
| low | Wideband 5G | 6852.6 | -31.1 | RMS | 1000 | -13.0 | 18.1 |
| low | Wideband 5G | 19563.3 | -31.7 | RMS | 1000 | -13.0 | 18.7 |
| low | Wideband 5G | 19899.8 | -32.0 | RMS | 1000 | -13.0 | 19.0 |
| low | Wideband 5G | 30756.9 | -33.8 | RMS | 1000 | -13.0 | 20.8 |
| low | Wideband 5G | 39920.8 | -37.4 | RMS | 1000 | -13.0 | 24.4 |
| mid | Wideband 5G | 0.01103 | -59.6 | RMS | 1 | -43.0 | 16.6 |
| mid | Wideband 5G | 0.05750 | -52.7 | RMS | 10 | -33.0 | 19.7 |
| mid | Wideband 5G | 793.1 | -43.4 | RMS | 100 | -23.0 | 20.4 |
| mid | Wideband 5G | 3770.8 | -22.1 | RMS | 1000 | -13.0 | 9.1 |
| mid | Wideband 5G | 3784.5 | -30.9 | RMS | 100 | -23.0 | 7.9 |
| mid | Wideband 5G | 3891.7 | -30.0 | RMS | 100 | -23.0 | 7.0 |
| mid | Wideband 5G | 3899.7 | -22.1 | RMS | 1000 | -13.0 | 9.1 |
| mid | Wideband 5G | 6905.6 | -30.9 | RMS | 1000 | -13.0 | 17.9 |
| mid | Wideband 5G | 19561.8 | -31.5 | RMS | 1000 | -13.0 | 18.5 |
| mid | Wideband 5G | 19896.8 | -32.3 | RMS | 1000 | -13.0 | 19.3 |
| mid | Wideband 5G | 30790.4 | -33.8 | RMS | 1000 | -13.0 | 20.8 |
| mid | Wideband 5G | 39988.8 | -37.0 | RMS | 1000 | -13.0 | 24.0 |
| high | Wideband 5G | 0.00976 | -59.0 | RMS | 1 | -43.0 | 16.0 |
| high | Wideband 5G | 0.48243 | -55.2 | RMS | 10 | -33.0 | 22.2 |
| high | Wideband 5G | 950.3 | -43.4 | RMS | 100 | -23.0 | 20.4 |
| high | Wideband 5G | 3770.3 | -21.8 | RMS | 1000 | -13.0 | 8.8 |
| high | Wideband 5G | 3782.2 | -30.1 | RMS | 100 | -23.0 | 7.1 |
| high | Wideband 5G | 3900.2 | -21.3 | RMS | 1000 | -13.0 | 8.3 |
| high | Wideband 5G | 6821.1 | -30.7 | RMS | 1000 | -13.0 | 17.7 |
| high | Wideband 5G | 19543.3 | -31.7 | RMS | 1000 | -13.0 | 18.7 |
| high | Wideband 5G | 19915.3 | -32.3 | RMS | 1000 | -13.0 | 19.3 |
| high | Wideband 5G | 30924.4 | -33.9 | RMS | 1000 | -13.0 | 20.9 |
| high | Wideband 5G | 39996.3 | -37.4 | RMS | 1000 | -13.0 | 24.4 |

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EMC Test Report No.: 24-0197

EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

| 37 TDD, segment 3;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband | 0.01226 | -50.8 | RMS | 1 | -43.0 | 7.8 |
| low | Wideband | 0.15248 | -44.0 | RMS | 10 | -33.0 | 11.0 |
| low | Wideband | 950.2 | -32.8 | RMS | 100 | -23.0 | 9.8 |
| low | Wideband | 3840.3 | -18.4 | RMS | 1000 | -13.0 | 5.4 |
| low | Wideband | 3878.5 | -26.5 | RMS | 100 | -23.0 | 3.5 |
| low | Wideband | 3981.0 | -33.4 | RMS | 100 | -23.0 | 10.4 |
| low | Wideband | 4978.8 | -23.4 | RMS | 1000 | -13.0 | 10.4 |
| low | Wideband | 6997.6 | -21.0 | RMS | 1000 | -13.0 | 8.0 |
| low | Wideband | 19577.3 | -21.5 | RMS | 1000 | -13.0 | 8.5 |
| low | Wideband | 19965.3 | -22.2 | RMS | 1000 | -13.0 | 9.2 |
| low | Wideband | 30300.0 | -24.6 | RMS | 1000 | -13.0 | 11.6 |
| low | Wideband | 39983.3 | -25.9 | RMS | 1000 | -13.0 | 12.9 |
| mid | Wideband | 0.01123 | -50.8 | RMS | 1 | -43.0 | 7.8 |
| mid | Wideband | 0.14748 | -43.8 | RMS | 10 | -33.0 | 10.8 |
| mid | Wideband | 949.5 | -33.5 | RMS | 100 | -23.0 | 10.5 |
| mid | Wideband | 3840.3 | -15.1 | RMS | 1000 | -13.0 | 2.1 |
| mid | Wideband | 3873.6 | -32.9 | RMS | 100 | -23.0 | 9.9 |
| mid | Wideband | 3981.0 | -33.4 | RMS | 100 | -23.0 | 10.4 |
| mid | Wideband | 4325.1 | -23.4 | RMS | 1000 | -13.0 | 10.4 |
| mid | Wideband | 6879.1 | -21.0 | RMS | 1000 | -13.0 | 8.0 |
| mid | Wideband | 19549.8 | -21.5 | RMS | 1000 | -13.0 | 8.5 |
| mid | Wideband | 20000.2 | -22.3 | RMS | 1000 | -13.0 | 9.3 |
| mid | Wideband | 30645.4 | -24.6 | RMS | 1000 | -13.0 | 11.6 |
| mid | Wideband | 39933.8 | -25.5 | RMS | 1000 | -13.0 | 12.5 |
| high | Wideband | 0.00992 | -50.2 | RMS | 1 | -43.0 | 7.2 |
| high | Wideband | 0.15248 | -44.3 | RMS | 10 | -33.0 | 11.3 |
| high | Wideband | 810.6 | -33.8 | RMS | 100 | -23.0 | 10.8 |
| high | Wideband | 3840.3 | -16.5 | RMS | 1000 | -13.0 | 3.5 |
| high | Wideband | 3872.1 | -32.8 | RMS | 100 | -23.0 | 9.8 |
| high | Wideband | 3981.2 | -29.8 | RMS | 100 | -23.0 | 6.8 |
| high | Wideband | 4384.1 | -23.7 | RMS | 1000 | -13.0 | 10.7 |
| high | Wideband | 6775.1 | -20.9 | RMS | 1000 | -13.0 | 7.9 |
| high | Wideband | 19579.3 | -21.6 | RMS | 1000 | -13.0 | 8.6 |
| high | Wideband | 19930.8 | -22.6 | RMS | 1000 | -13.0 | 9.6 |
| high | Wideband | 30729.9 | -24.2 | RMS | 1000 | -13.0 | 11.2 |
| high | Wideband | 39983.3 | -25.5 | RMS | 1000 | -13.0 | 12.5 |

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EMC tests on CAP H2 34T/37T F-AC-F1 [37T]

| 37 TDD, segment 3;downlink | | | | | | | |
|----------------------------|-------------|----------------------|----------------------|----------|-----------|-------------|----------------------|
| Test Frequency | Signal Type | Spurious Freq. [MHz] | Spurious Level [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| low | Wideband 5G | 0.00902 | -50.8 | RMS | 1 | -43.0 | 7.8 |
| low | Wideband 5G | 0.06250 | -44.5 | RMS | 10 | -33.0 | 11.5 |
| low | Wideband 5G | 810.8 | -33.5 | RMS | 100 | -23.0 | 10.5 |
| low | Wideband 5G | 3870.3 | -20.6 | RMS | 1000 | -13.0 | 7.6 |
| low | Wideband 5G | 3875.4 | -29.2 | RMS | 100 | -23.0 | 6.2 |
| low | Wideband 5G | 4094.2 | -23.9 | RMS | 1000 | -13.0 | 10.9 |
| low | Wideband 5G | 6979.6 | -20.9 | RMS | 1000 | -13.0 | 7.9 |
| low | Wideband 5G | 19995.8 | -21.7 | RMS | 1000 | -13.0 | 8.7 |
| low | Wideband 5G | 20002.3 | -21.2 | RMS | 1000 | -13.0 | 8.2 |
| low | Wideband 5G | 30760.9 | -24.7 | RMS | 1000 | -13.0 | 11.7 |
| low | Wideband 5G | 38493.9 | -25.7 | RMS | 1000 | -13.0 | 12.7 |
| mid | Wideband 5G | 0.0 | -50.4 | RMS | 1 | -43.0 | 7.4 |
| mid | Wideband 5G | 0.07250 | -44.3 | RMS | 10 | -33.0 | 11.3 |
| mid | Wideband 5G | 951.52749 | -33.7 | RMS | 100 | -23.0 | 10.7 |
| mid | Wideband 5G | 3856.3 | -20.7 | RMS | 1000 | -13.0 | 7.7 |
| mid | Wideband 5G | 3877.9 | -29.0 | RMS | 100 | -23.0 | 6.0 |
| mid | Wideband 5G | 3982.3 | -29.4 | RMS | 100 | -23.0 | 6.4 |
| mid | Wideband 5G | 4353.1 | -23.5 | RMS | 1000 | -13.0 | 10.5 |
| mid | Wideband 5G | 6972.6 | -20.7 | RMS | 1000 | -13.0 | 7.7 |
| mid | Wideband 5G | 17905.4 | -21.7 | RMS | 1000 | -13.0 | 8.7 |
| mid | Wideband 5G | 19949.8 | -22.2 | RMS | 1000 | -13.0 | 9.2 |
| mid | Wideband 5G | 30747.9 | -24.1 | RMS | 1000 | -13.0 | 11.1 |
| mid | Wideband 5G | 39998.8 | -25.4 | RMS | 1000 | -13.0 | 12.4 |
| high | Wideband 5G | 0.01181 | -50.6 | RMS | 1 | -43.0 | 7.6 |
| high | Wideband 5G | 0.15248 | -45.7 | RMS | 10 | -33.0 | 12.7 |
| high | Wideband 5G | 949.6 | -33.3 | RMS | 100 | -23.0 | 10.3 |
| high | Wideband 5G | 3866.3 | -21.0 | RMS | 1000 | -13.0 | 8.0 |
| high | Wideband 5G | 3874.9 | -29.4 | RMS | 100 | -23.0 | 6.4 |
| high | Wideband 5G | 3981.7 | -29.4 | RMS | 100 | -23.0 | 6.4 |
| high | Wideband 5G | 4125.7 | -23.8 | RMS | 1000 | -13.0 | 10.8 |
| high | Wideband 5G | 6984.1 | -20.9 | RMS | 1000 | -13.0 | 7.9 |
| high | Wideband 5G | 19572.3 | -22.0 | RMS | 1000 | -13.0 | 9.0 |
| high | Wideband 5G | 19865.3 | -22.6 | RMS | 1000 | -13.0 | 9.6 |
| high | Wideband 5G | 30704.9 | -24.3 | RMS | 1000 | -13.0 | 11.3 |
| high | Wideband 5G | 39954.3 | -25.4 | RMS | 1000 | -13.0 | 12.4 |

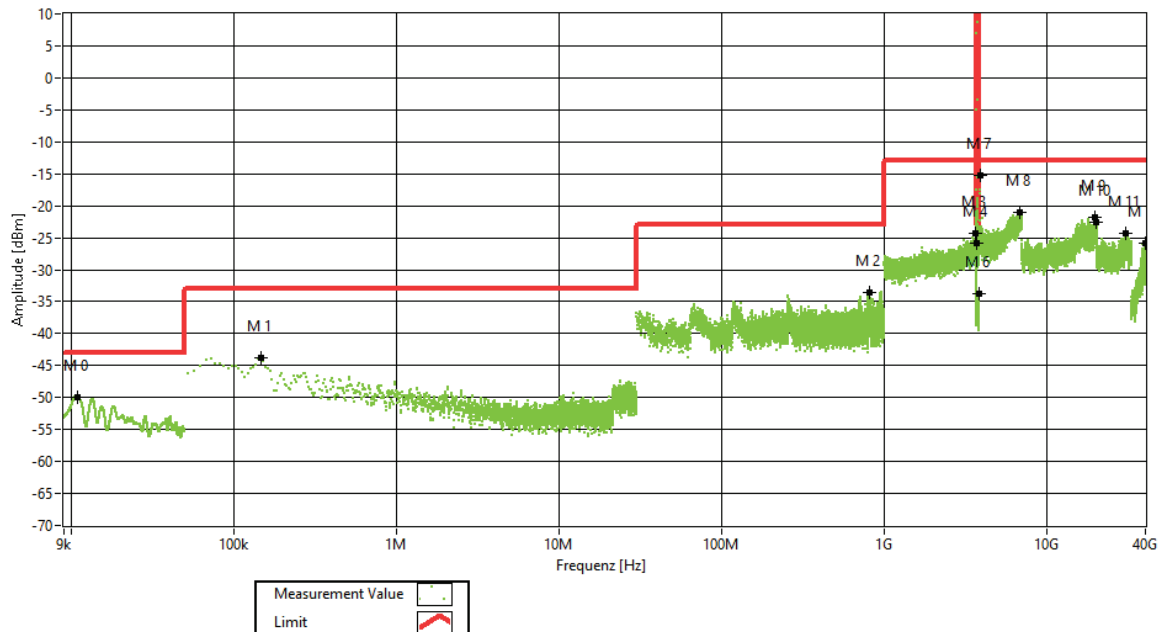
Remark: Please see next sub-clause for the measurement plot.

The test results relate only to the tested item. The sample has been provided by the client.

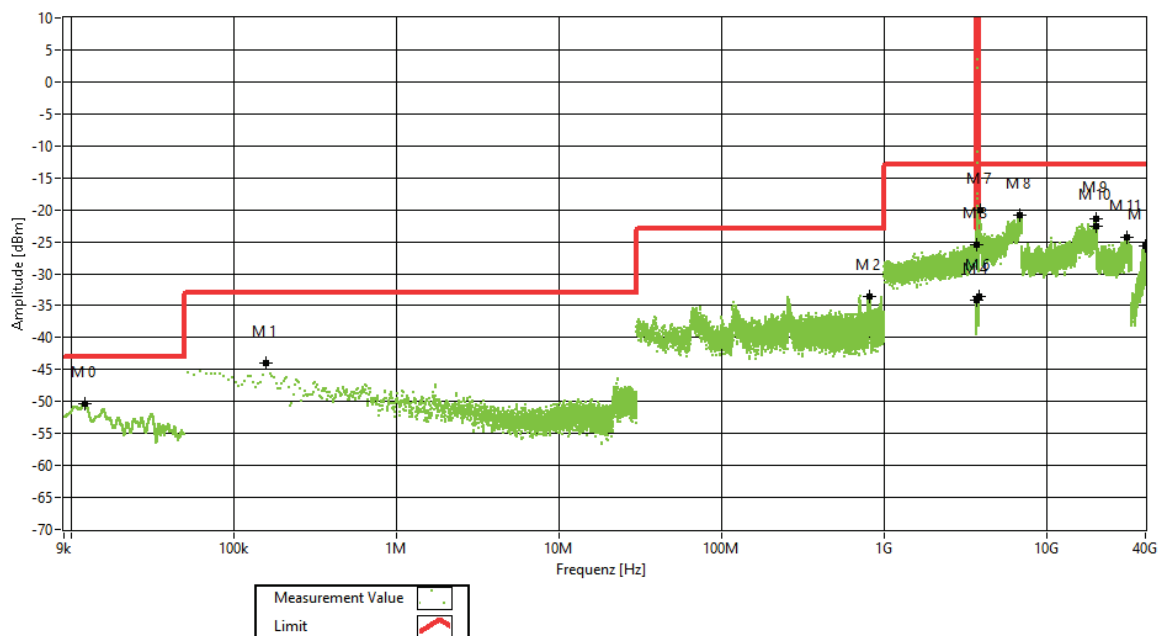
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5.4.4 MEASUREMENT PLOT

Frequency Band = 37 TDD. Segment 1. Test Frequency = low. Direction = RF downlink.
Signal Type = Wideband



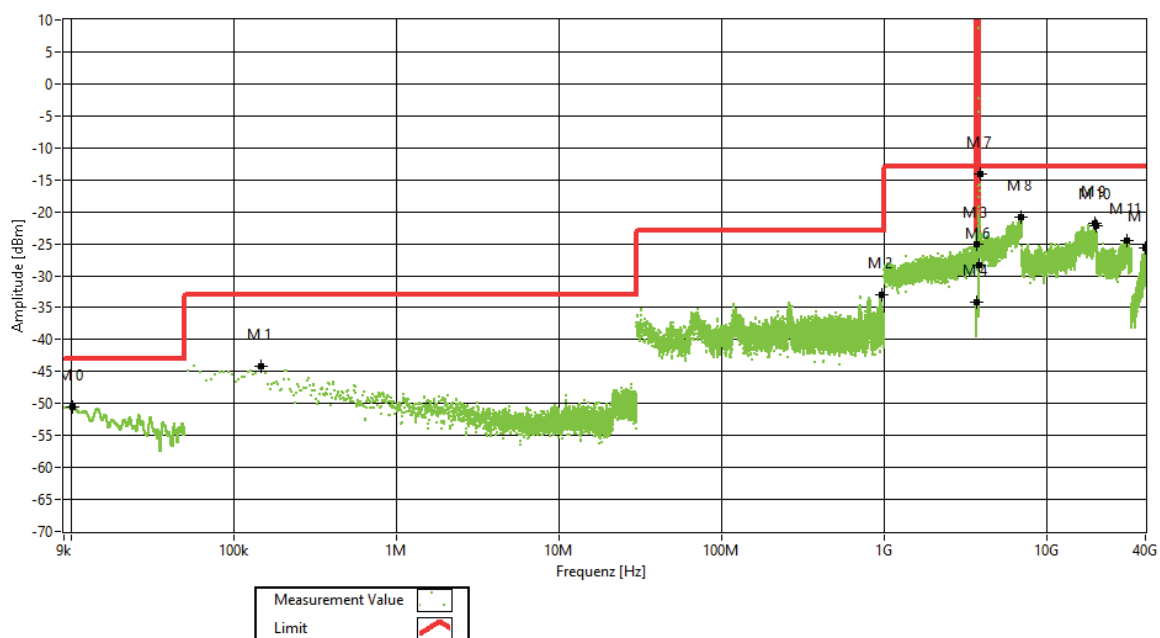
Frequency Band = 37 TDD. Segment 1. Test Frequency = mid. Direction = RF downlink.
Signal Type = Wideband



The test results relate only to the tested item. The sample has been provided by the client.

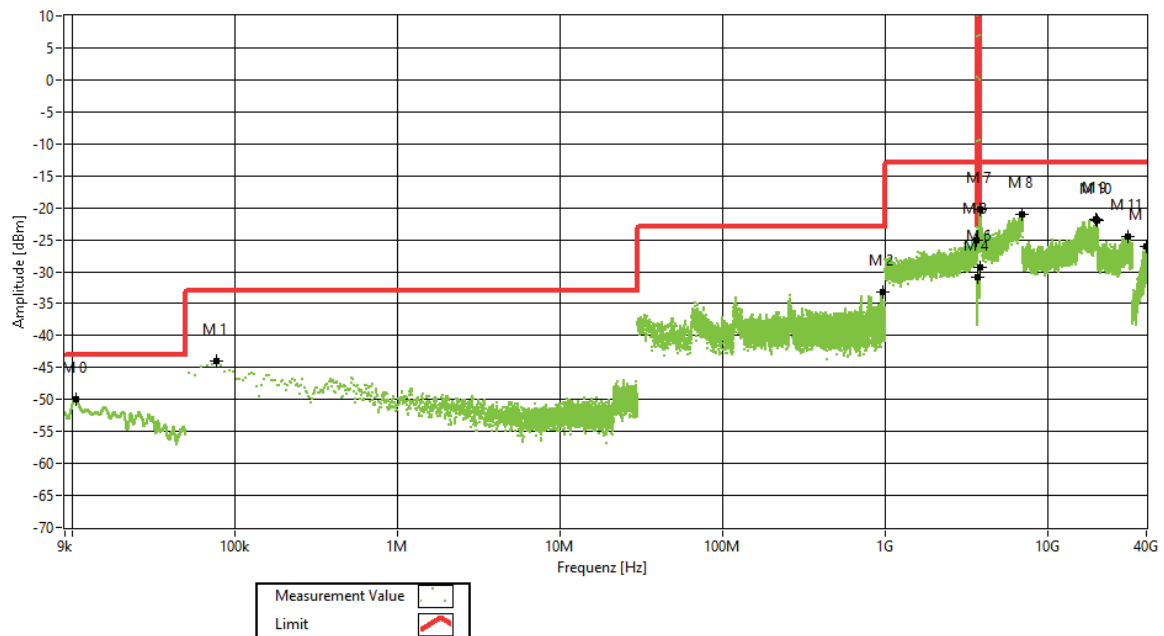
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Frequency Band = 37 TDD. Segment 1. Test Frequency = high. Direction = RF downlink.
Signal Type = Wideband

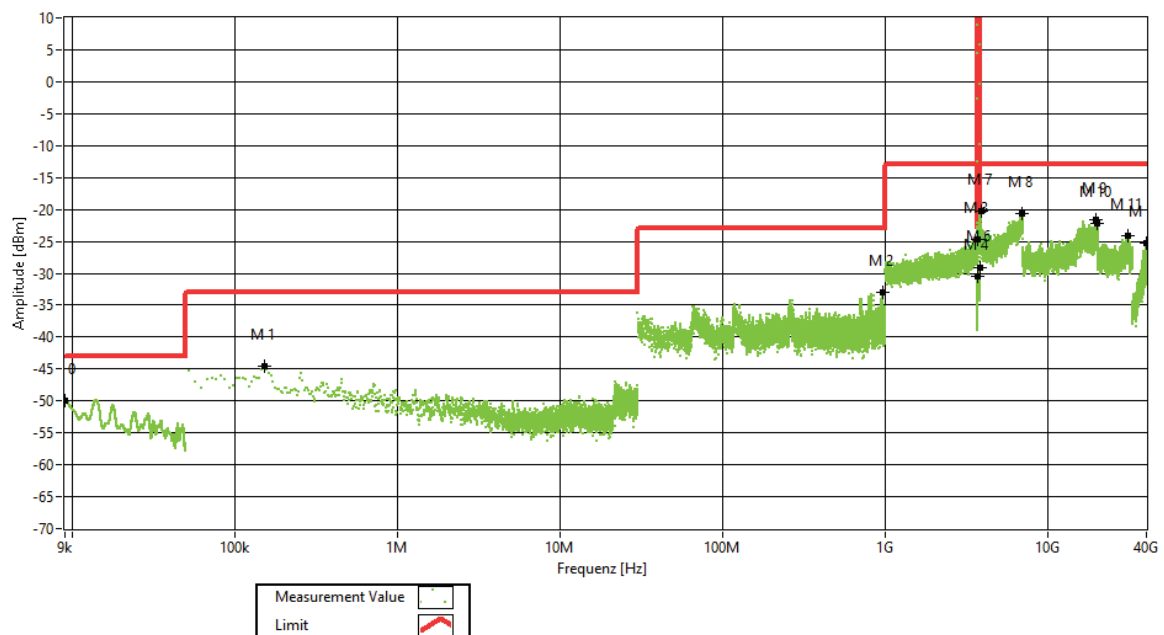


The test results relate only to the tested item. The sample has been provided by the client.
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Frequency Band = 37 TDD. Segment 1. Test Frequency = low. Direction = RF downlink.
Signal Type = Wideband 5G



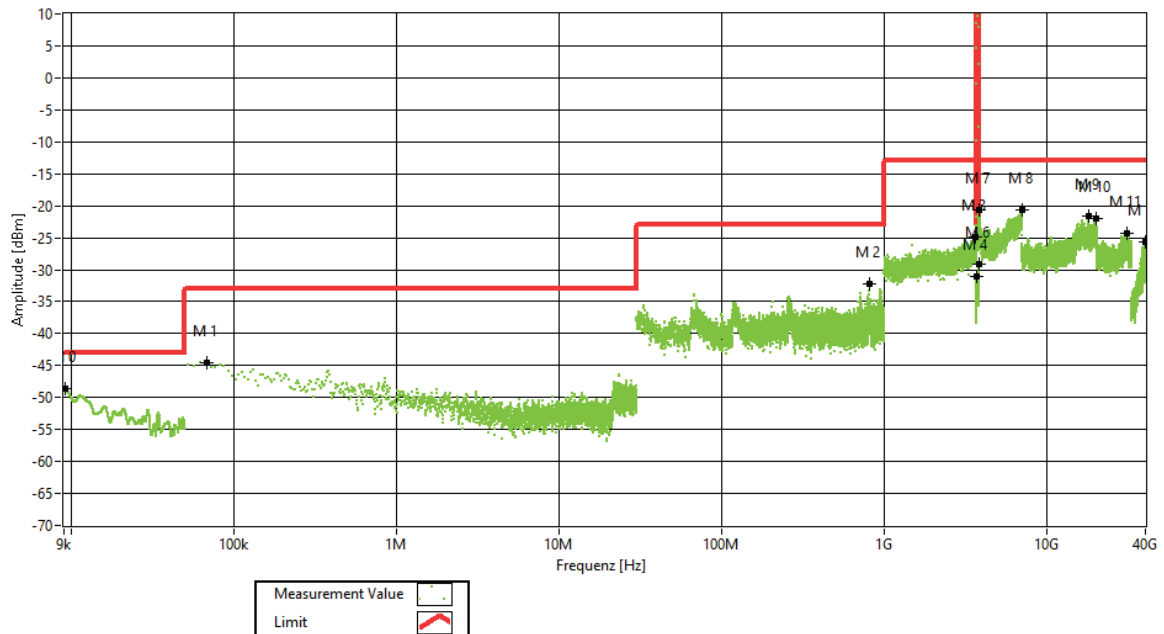
Frequency Band = 37 TDD. Segment 1. Test Frequency = mid. Direction = RF downlink.
Signal Type = Wideband 5G



The test results relate only to the tested item. The sample has been provided by the client.

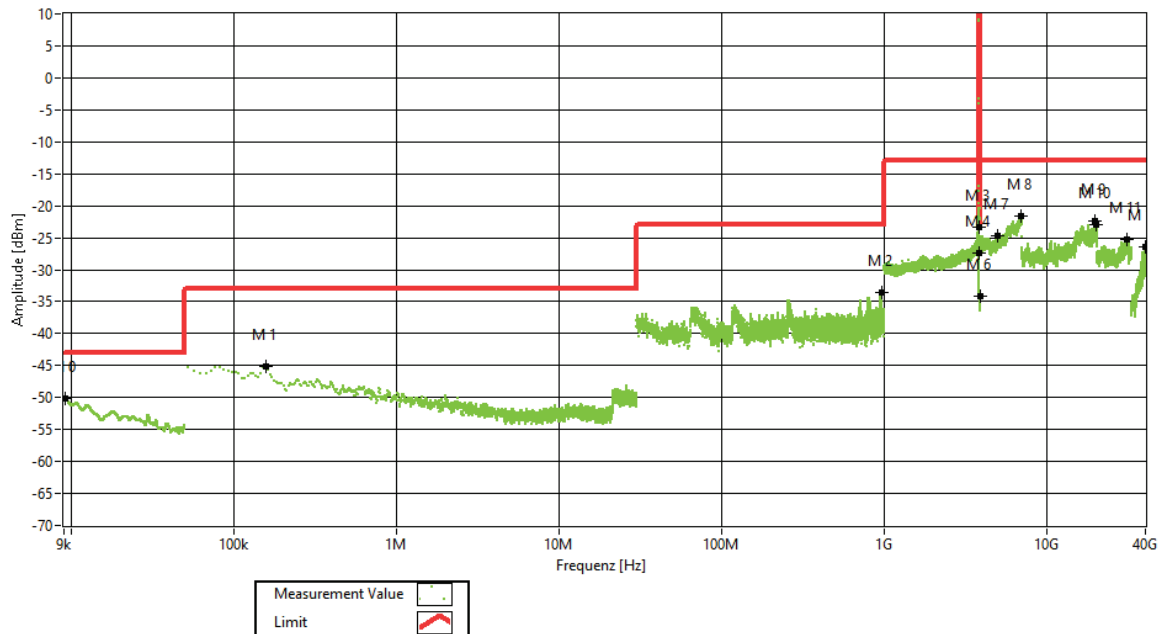
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Frequency Band = 37 TDD. Segment 1. Test Frequency = high. Direction = RF downlink.
Signal Type = Wideband 5G

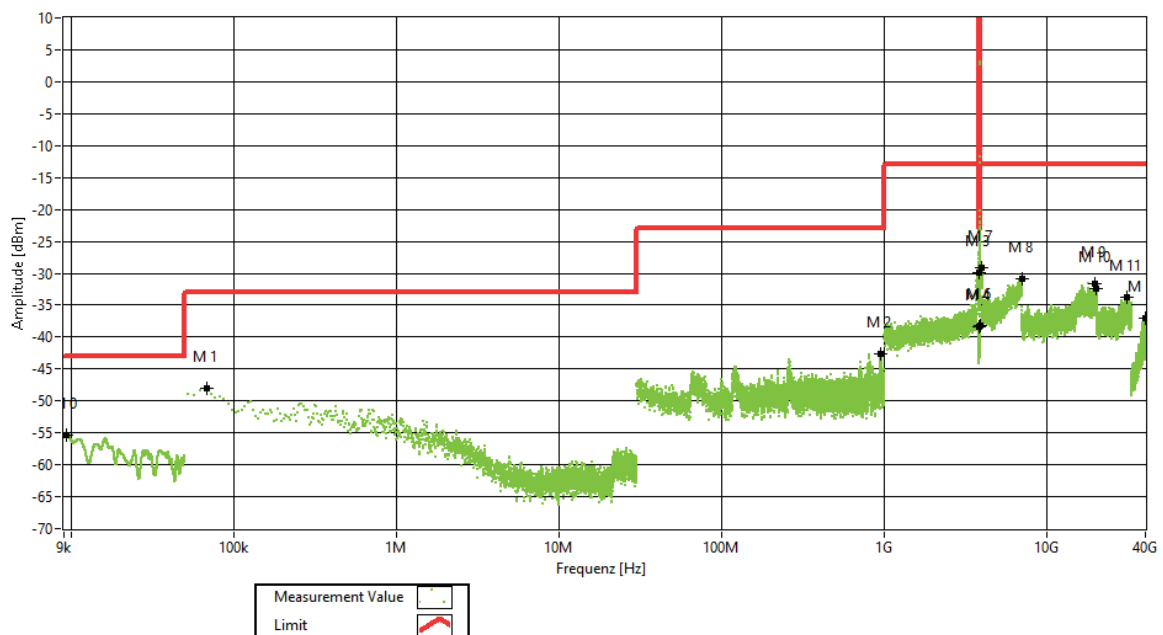


The test results relate only to the tested item. The sample has been provided by the client.
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Frequency Band = 37 TDD. Segment 2. Test Frequency = low. Direction = RF downlink.
Signal Type = Wideband



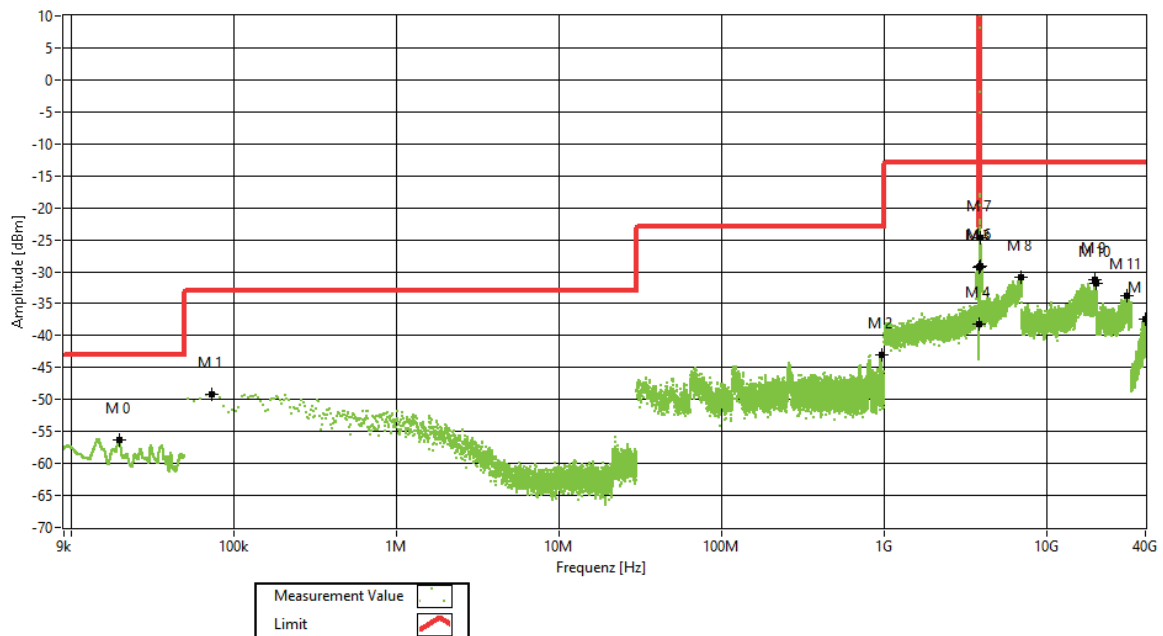
Frequency Band = 37 TDD. Segment 2. Test Frequency = mid. Direction = RF downlink.
Signal Type = Wideband



The test results relate only to the tested item. The sample has been provided by the client.

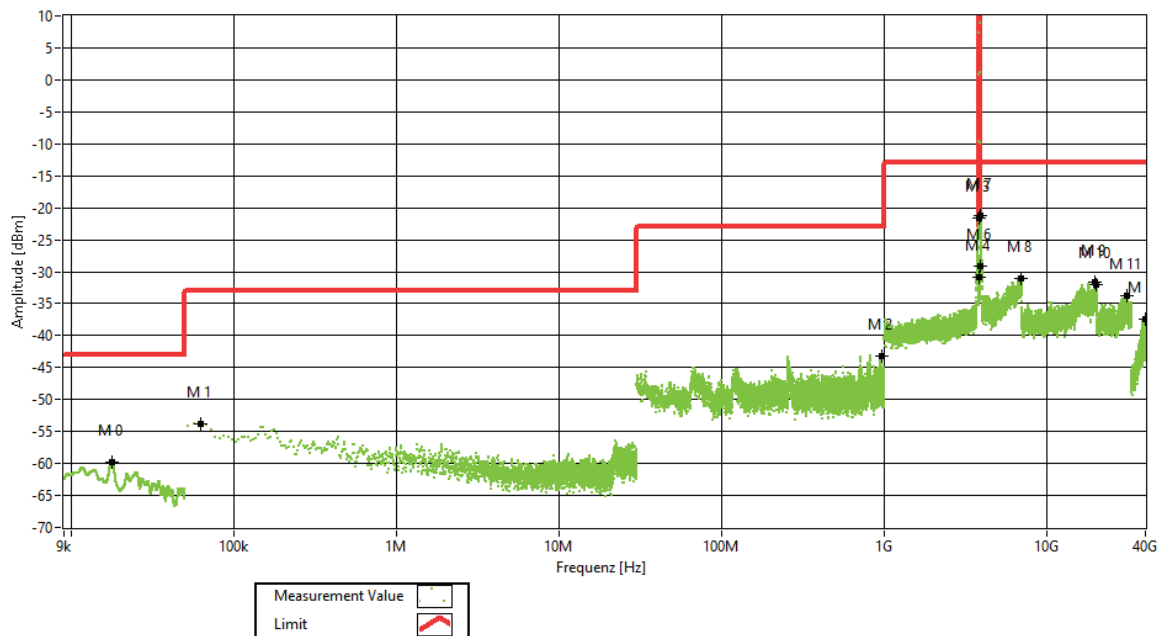
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Frequency Band = 37 TDD. Segment 2. Test Frequency = high. Direction = RF downlink.
Signal Type = Wideband

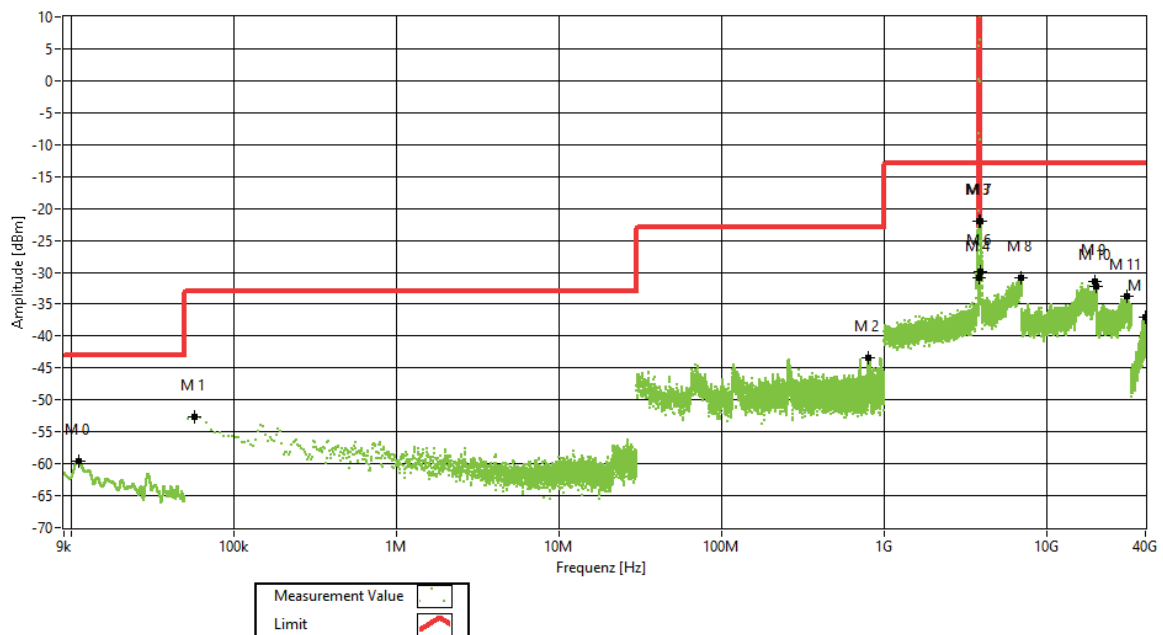


The test results relate only to the tested item. The sample has been provided by the client.
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Frequency Band = 37 TDD. Segment 2. Test Frequency = low. Direction = RF downlink.
Signal Type = Wideband 5G

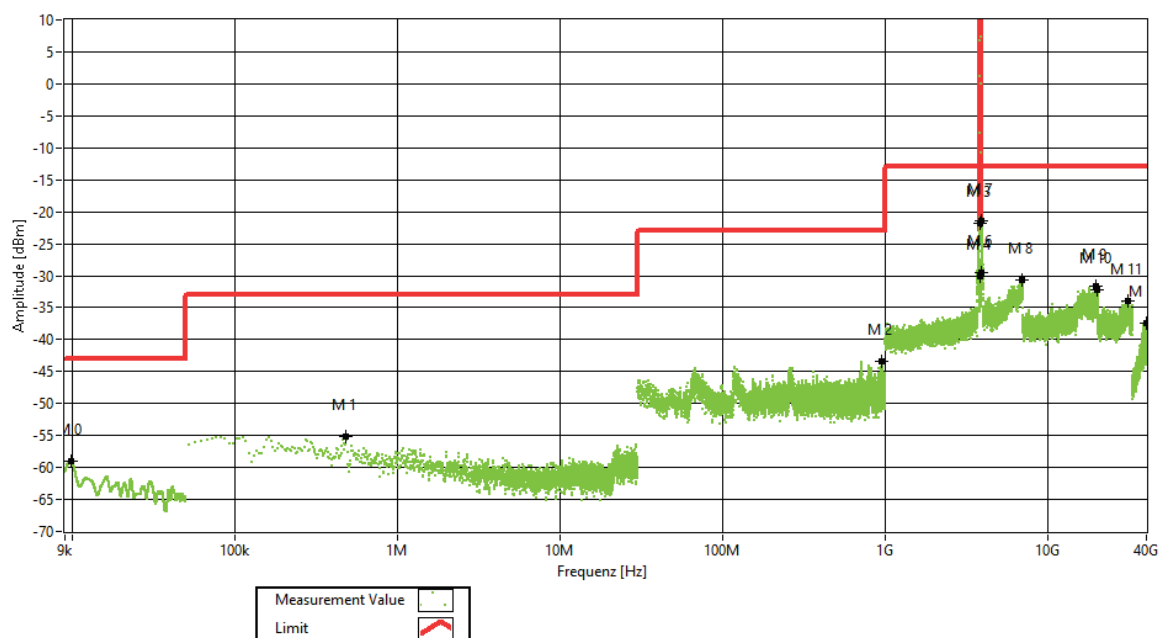


Frequency Band = 37 TDD. Segment 2. Test Frequency = mid. Direction = RF downlink.
Signal Type = Wideband 5G



The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

Frequency Band = 37 TDD. Segment 2. Test Frequency = high. Direction = RF downlink.
Signal Type = Wideband 5G



The test results relate only to the tested item. The sample has been provided by the client.
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