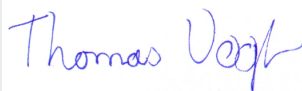


Annex TR1-A201



This test report annex is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report annex authorized:


cn=Thomas Vogler, o=cetecom
advanced GmbH, ou=VOG-230609,
email=thomas.vogler@cetecomadva
nced.com, c=DE
2026.04.14 15:32:11 +02'00'

Thomas Vogler
Lab Manager
Radio Labs

1 Table of contents

1 Table of contents 2

2 Measurement results, FCC Part 80..... 3

3 Measurement results, Spurious emissions 30MHz - 18 GHz..... 31

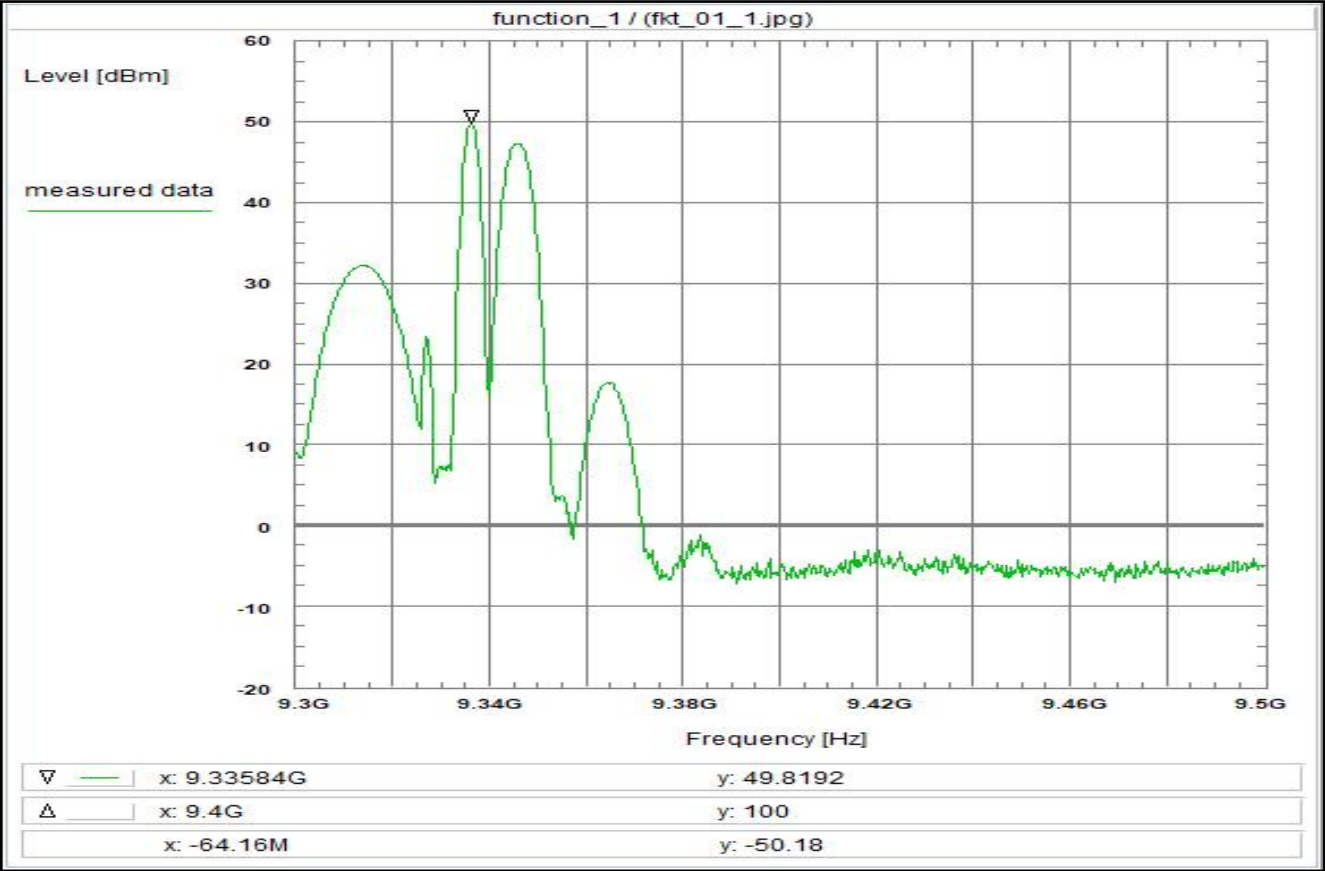
4 Measurement results, AC Power Line Conducted Emission Limits 36

5 Document history 39

2 Measurement results, FCC Part 80

This chapter consists of 28 pages including this page.

Plot No. 1



Subclause: -/- Function test, frequency and power
Short pulse / medium pulse / long pulse
Measurement within the allocated band: 9.3 - 9.5 GHz

Limit:
no limits defined

This test serves to verify the general function of the EUT and to orientate regarding to the spurious emissions which are expected within the band, furthermore for comparison of the measured power with the rated value.

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 0, mode 12NM

Test setup:
see test report chapter 7.3: cdhvj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: measurement for orientation

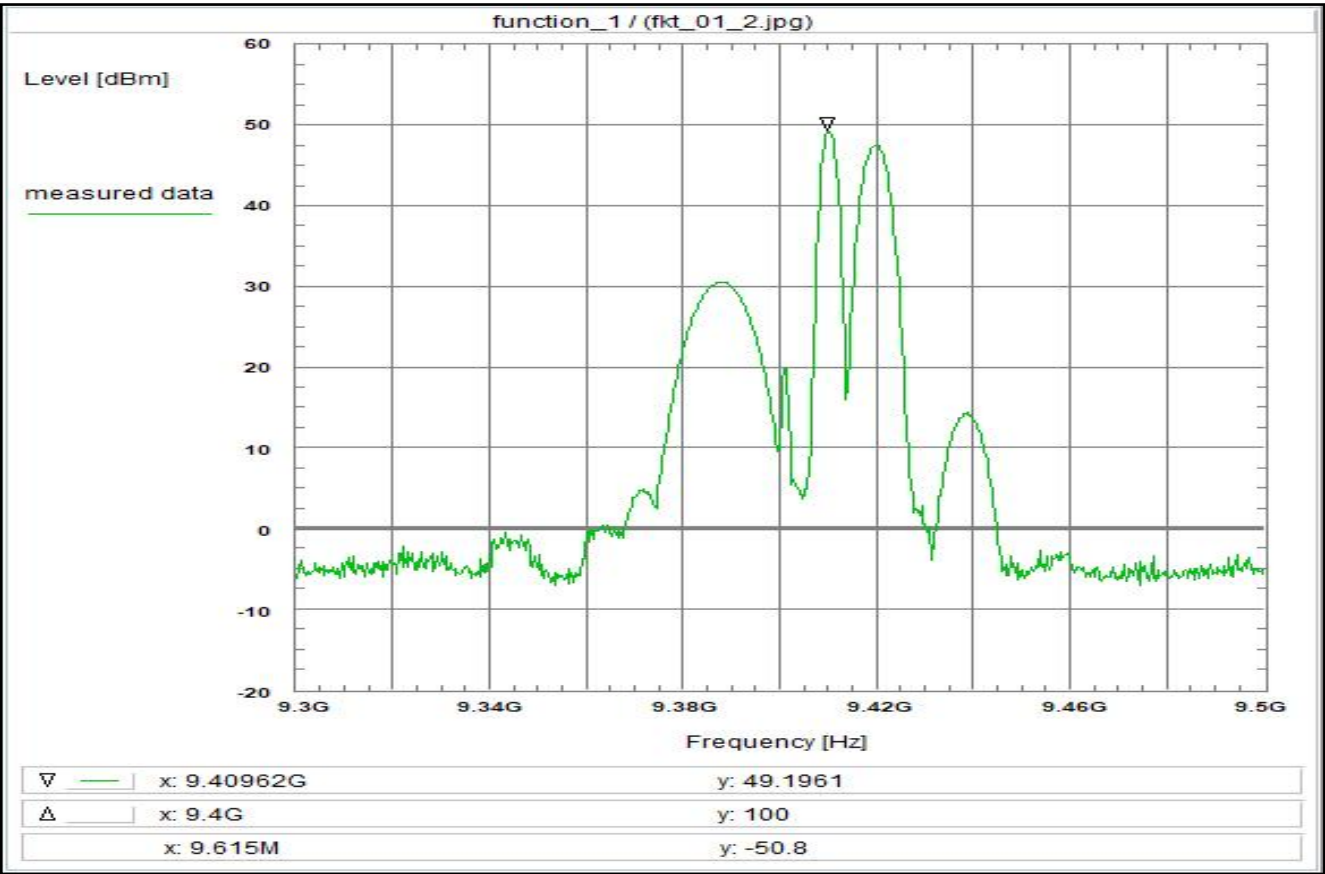
Environment condition:
Date & Time: Tue 16/Sep/2025 11:36:50
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 9.3 GHz
Stop frequency: 9.5 GHz
Center frequency: 9.4 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Clear Write
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:
Test of general function of the EUT and measurement for orientation

Plot No. 2



Subclause: -/- Function test, frequency and power
Short pulse / medium pulse / long pulse
Measurement within the allocated band: 9.3 - 9.5 GHz

Limit:
no limits defined

This test serves to verify the general function of the EUT and to orientate regarding to the spurious emissions which are expected within the band, furthermore for comparison of the measured power with the rated value.

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 3, mode 12NM

Test setup:
see test report chapter 7.3: cdhvj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: measurement for orientation

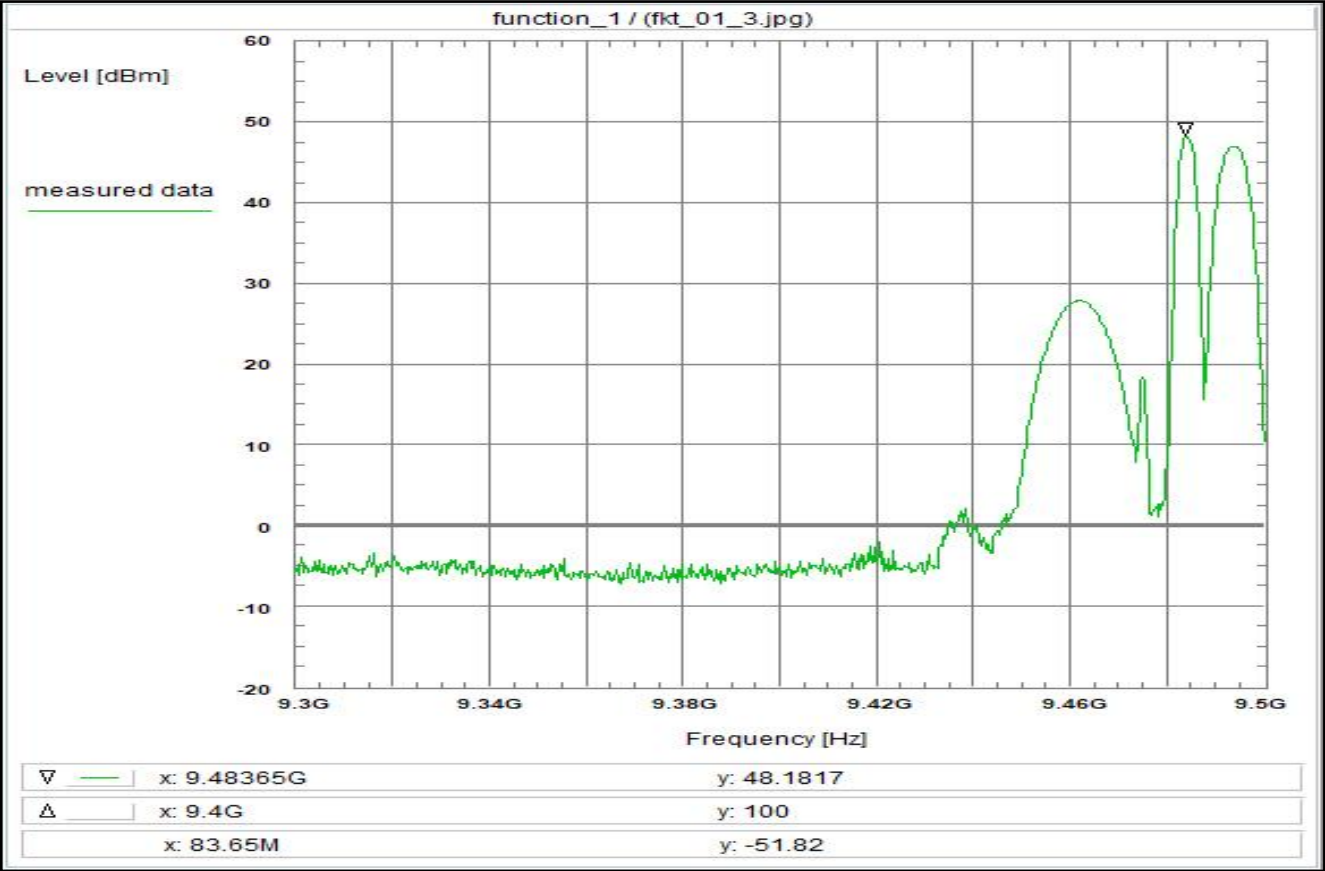
Environment condition:
Date & Time: Tue 16/Sep/2025 11:37:28
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 9.3 GHz
Stop frequency: 9.5 GHz
Center frequency: 9.4 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Clear Write
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:
Test of general function of the EUT and measurement for orientation

Plot No. 3



Subclause: -/- Function test, frequency and power
Short pulse / medium pulse / long pulse
Measurement within the allocated band: 9.3 - 9.5 GHz

Limit:
no limits defined

This test serves to verify the general function of the EUT and to orientate regarding to the spurious emissions which are expected within the band, furthermore for comparison of the measured power with the rated value.

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 6, mode 12NM

Test setup:
see test report chapter 7.3: cdhvj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: measurement for orientation

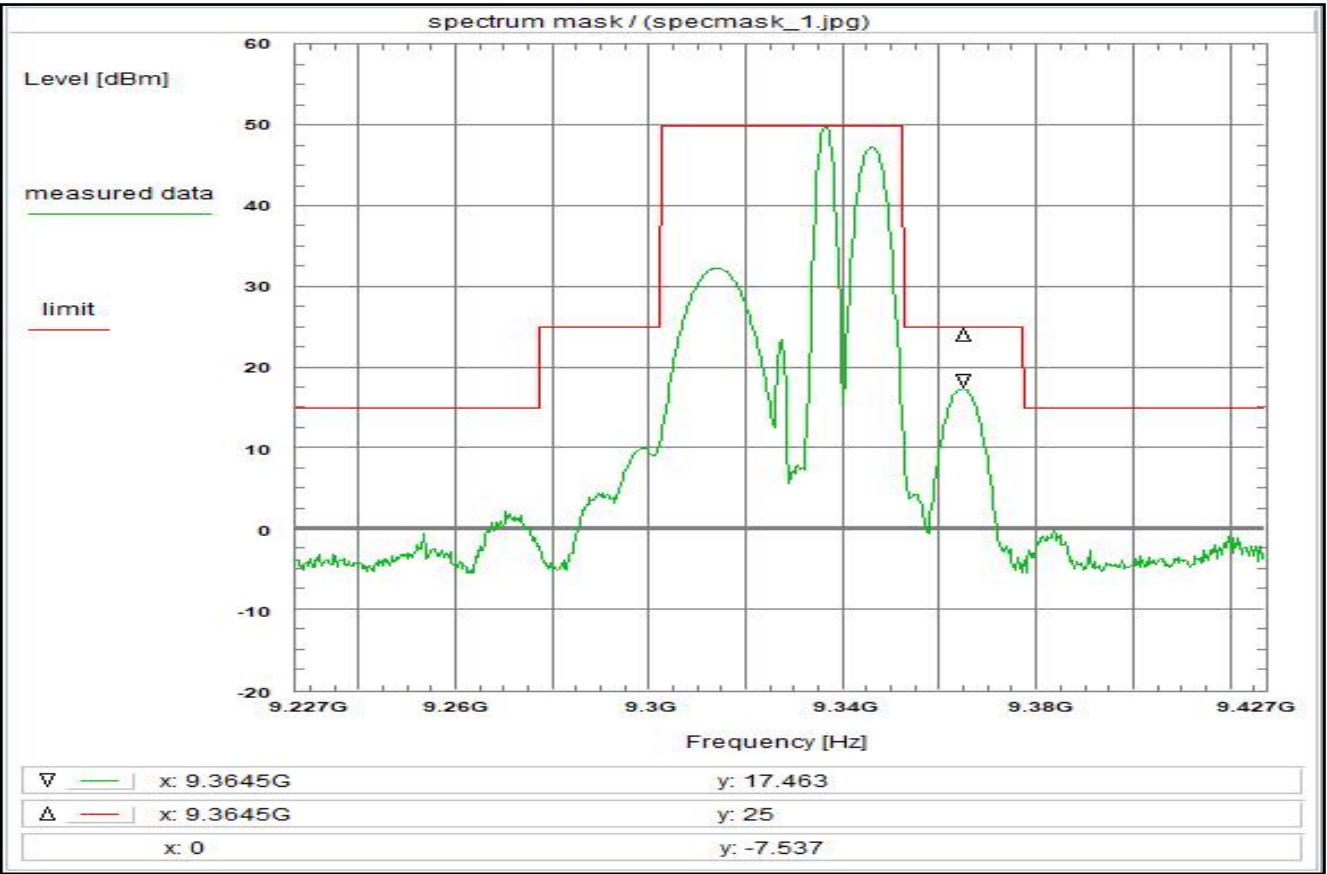
Environment condition:
Date & Time: Tue 16/Sep/2025 11:38:08
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 9.3 GHz
Stop frequency: 9.5 GHz
Center frequency: 9.4 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Clear Write
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:
Test of general function of the EUT and measurement for orientation

Plot No. 4



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 0, mode 12NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 11:50:19
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

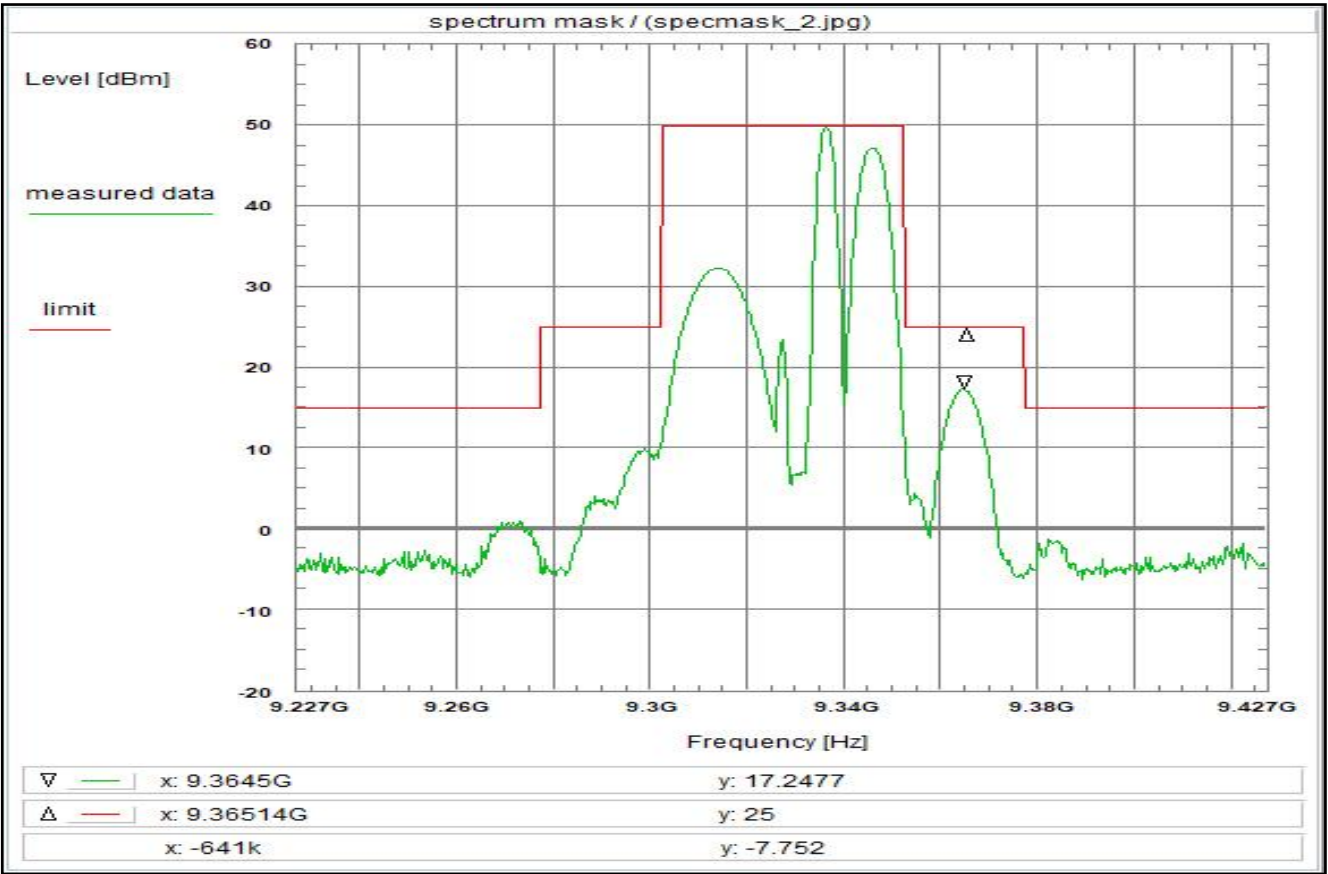
Setup of measurement equipment:
Start frequency: 9.227 GHz
Stop frequency: 9.427 GHz
Center frequency: 9.327 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.7 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.4 dB
TOTAL CORRECTION: + 56.4 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 5



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 0, mode 24NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:26:30
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

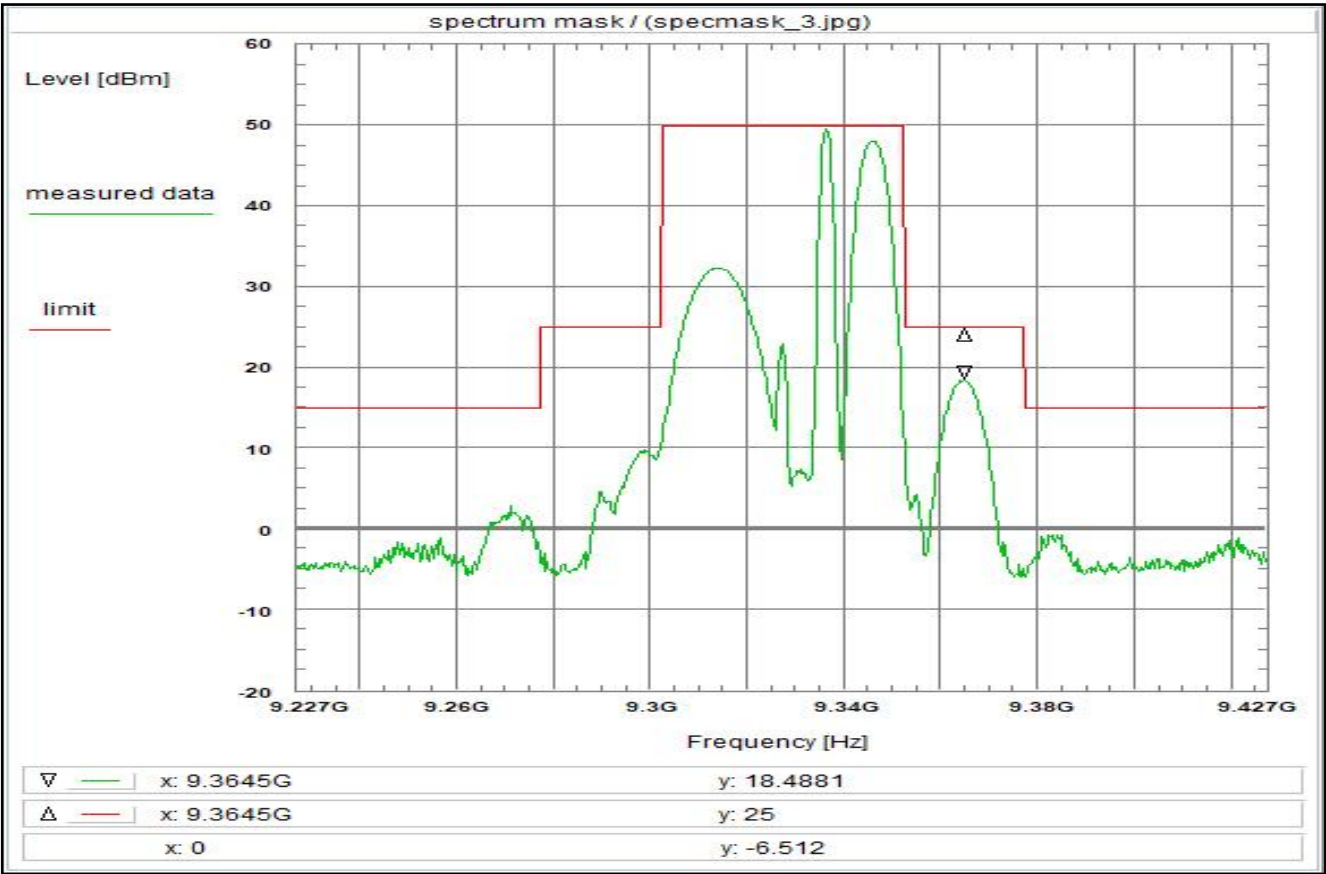
Setup of measurement equipment:
Start frequency: 9.227 GHz
Stop frequency: 9.427 GHz
Center frequency: 9.327 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.7 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.4 dB
TOTAL CORRECTION: + 56.4 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 6



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 0, mode 48NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:24:25
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

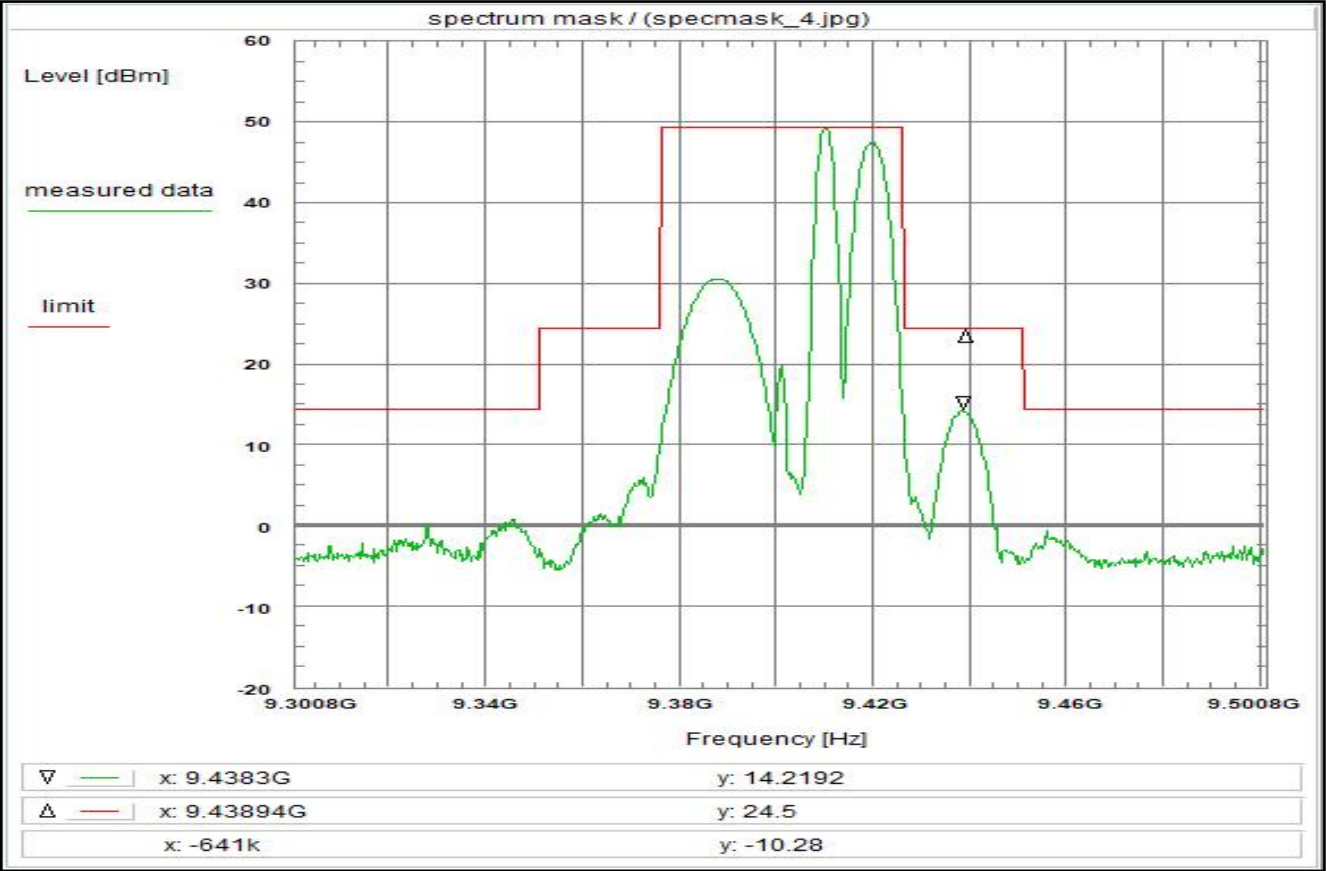
Setup of measurement equipment:
Start frequency: 9.227 GHz
Stop frequency: 9.427 GHz
Center frequency: 9.327 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.7 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.4 dB
TOTAL CORRECTION: + 56.4 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 7



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 3, mode 12NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:

Date & Time: Tue 16/Sep/2025 12:29:45
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:

Start frequency: 9.3008 GHz
Stop frequency: 9.5008 GHz
Center frequency: 9.4008 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

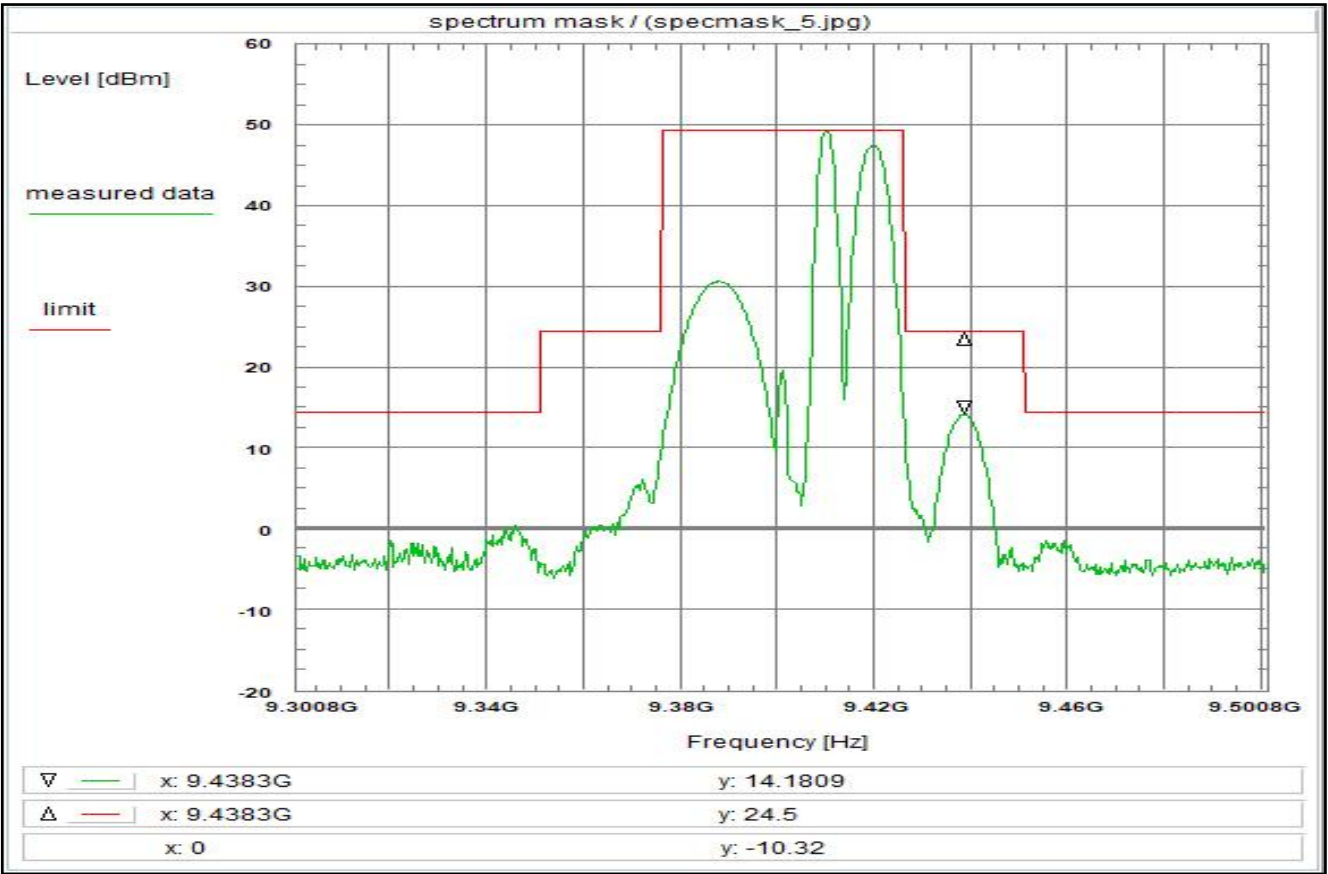
Correction:

Directional coupler (W240)	+ 43.9 dB
Coaxial cable (C107)	+ 3.3 dB
DUT-Antenna	+ 0.0 dBi
Test antenna	+ 0.0 dB
BW correction factor	+ 0.0 dB
Atten. between HPA and feedhorn	- 0.0 dB
Attenuation (U214)	+ 9.5 dB
TOTAL CORRECTION:	+ 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 8



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 3, mode 24NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:38:34
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

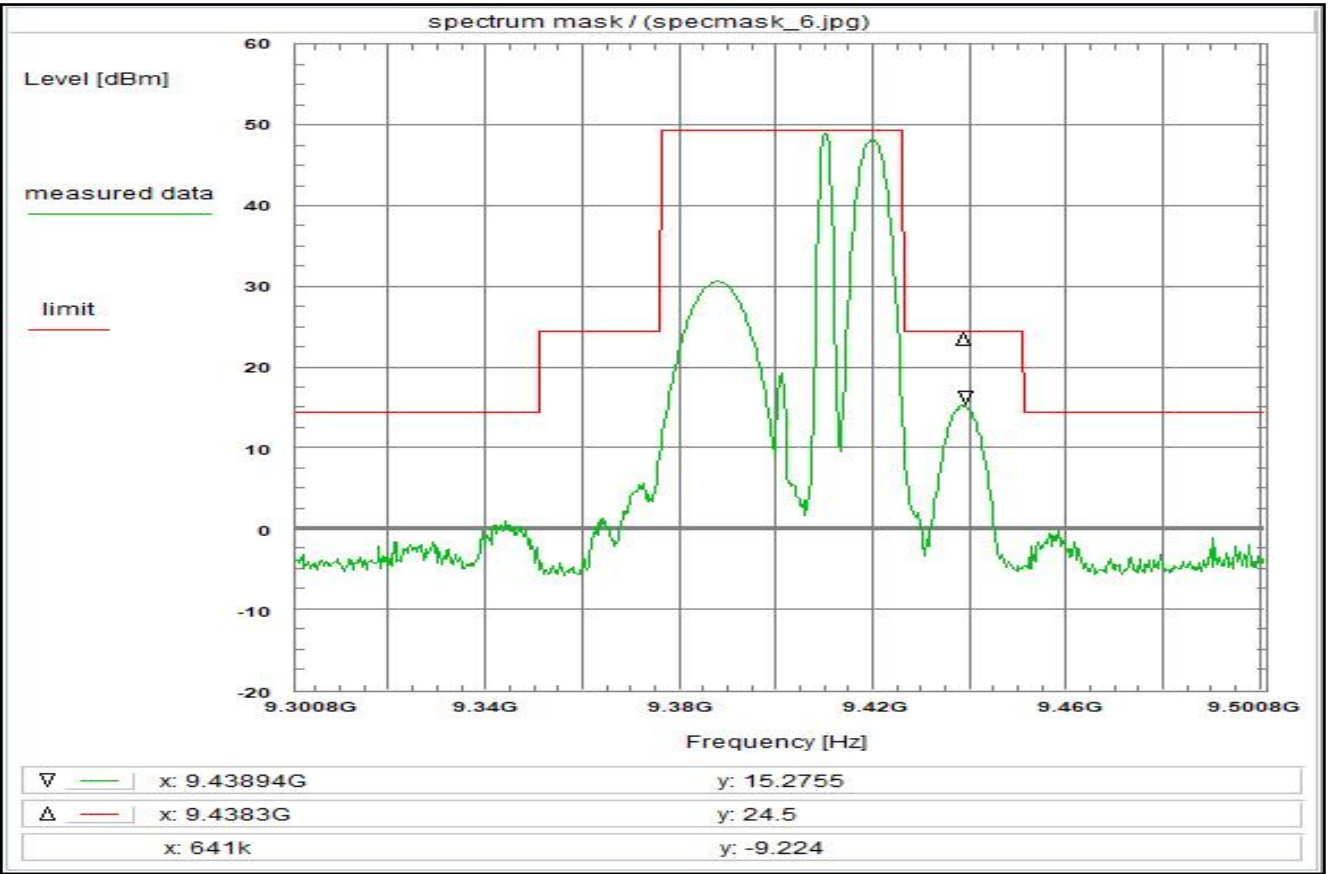
Setup of measurement equipment:
Start frequency: 9.3008 GHz
Stop frequency: 9.5008 GHz
Center frequency: 9.4008 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 9



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 3, mode 48NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:

Date & Time: Tue 16/Sep/2025 12:39:55
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:

Start frequency: 9.3008 GHz
Stop frequency: 9.5008 GHz
Center frequency: 9.4008 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

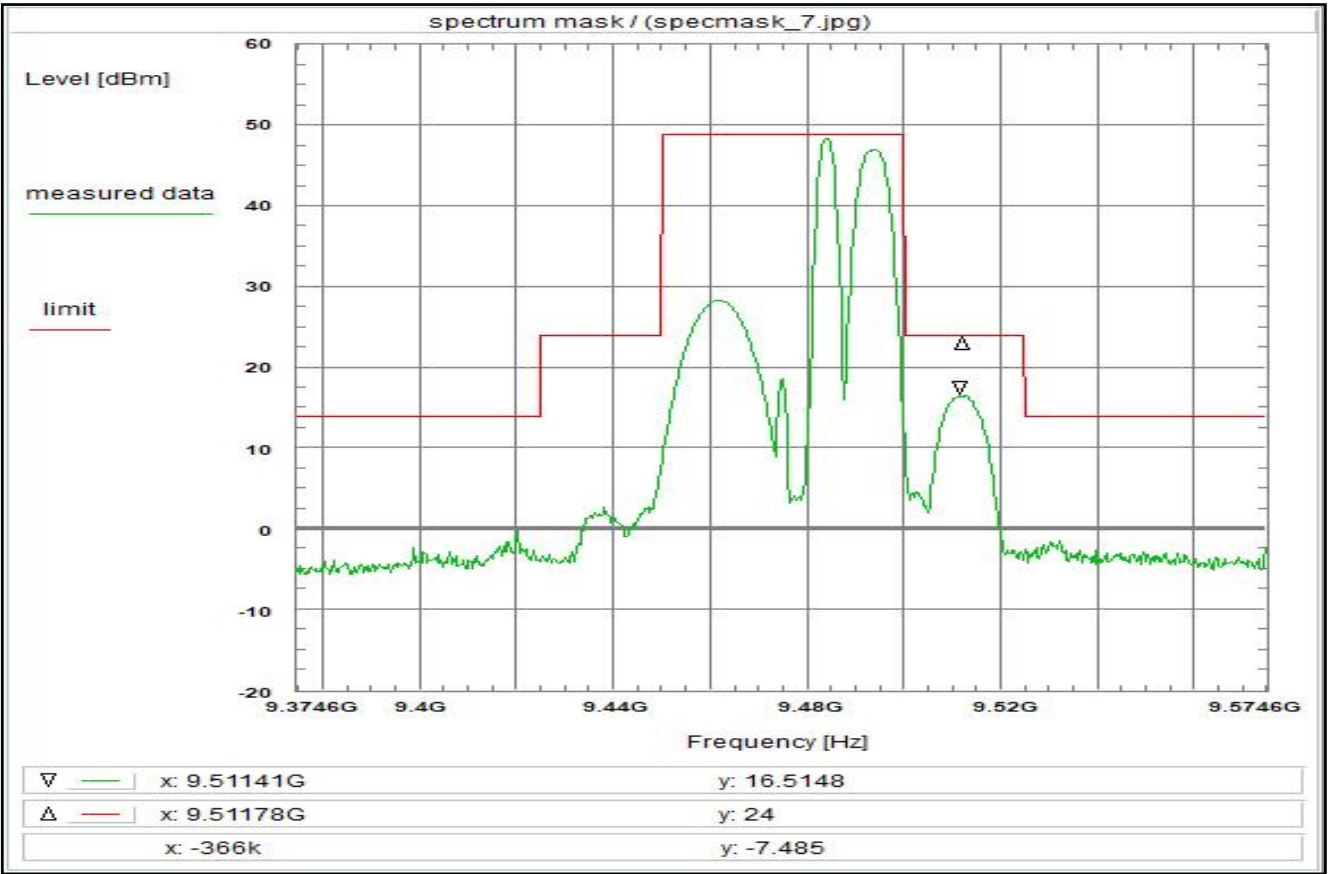
Correction:

Directional coupler (W240)	+ 43.9 dB
Coaxial cable (C107)	+ 3.3 dB
DUT-Antenna	+ 0.0 dBi
Test antenna	+ 0.0 dB
BW correction factor	+ 0.0 dB
Atten. between HPA and feedhorn	- 0.0 dB
Attenuation (U214)	+ 9.5 dB
TOTAL CORRECTION:	+ 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 10



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 6, mode 12NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:43:54
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

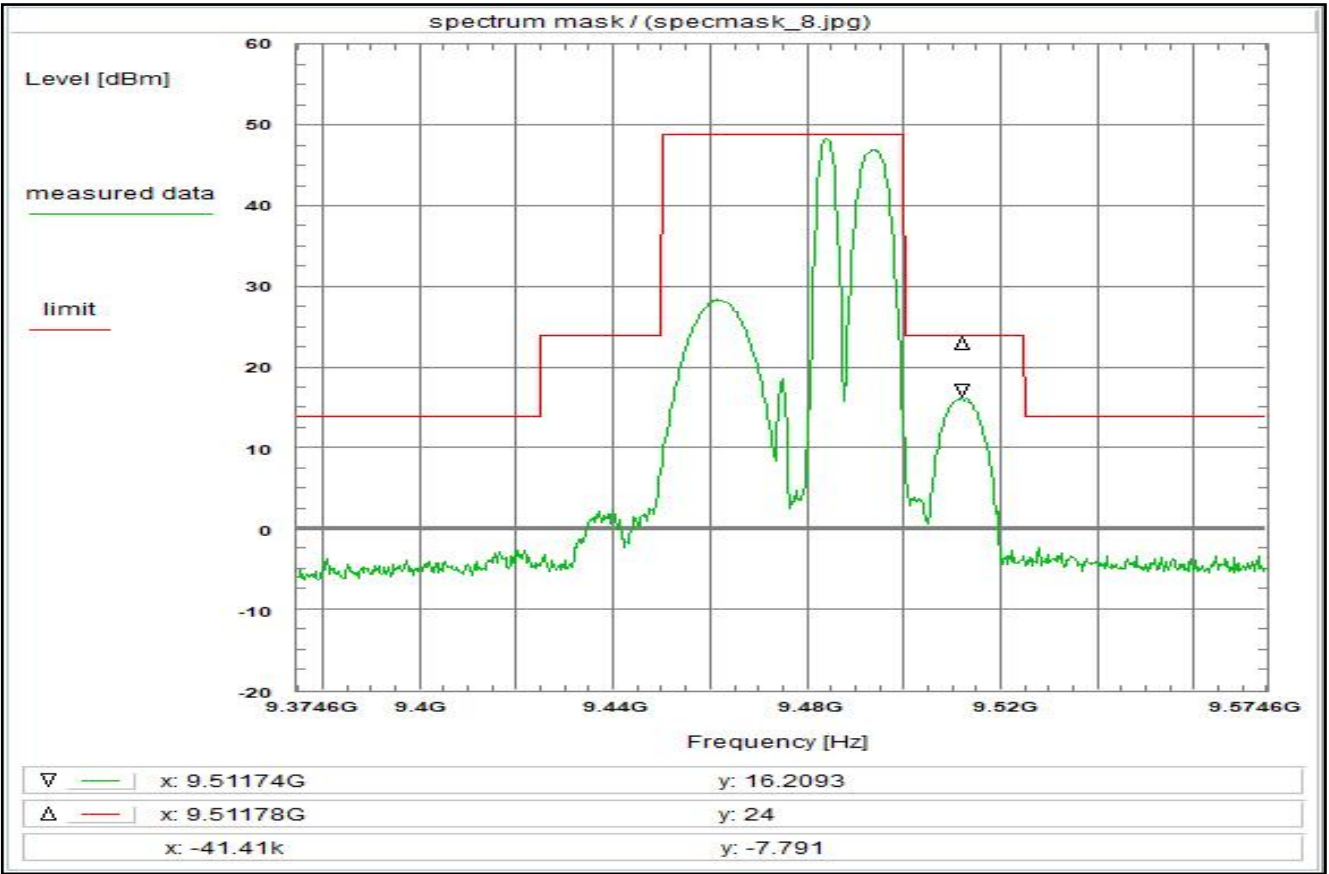
Setup of measurement equipment:
Start frequency: 9.3746 GHz
Stop frequency: 9.5746 GHz
Center frequency: 9.4746 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 11



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 6, mode 24NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:45:08
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

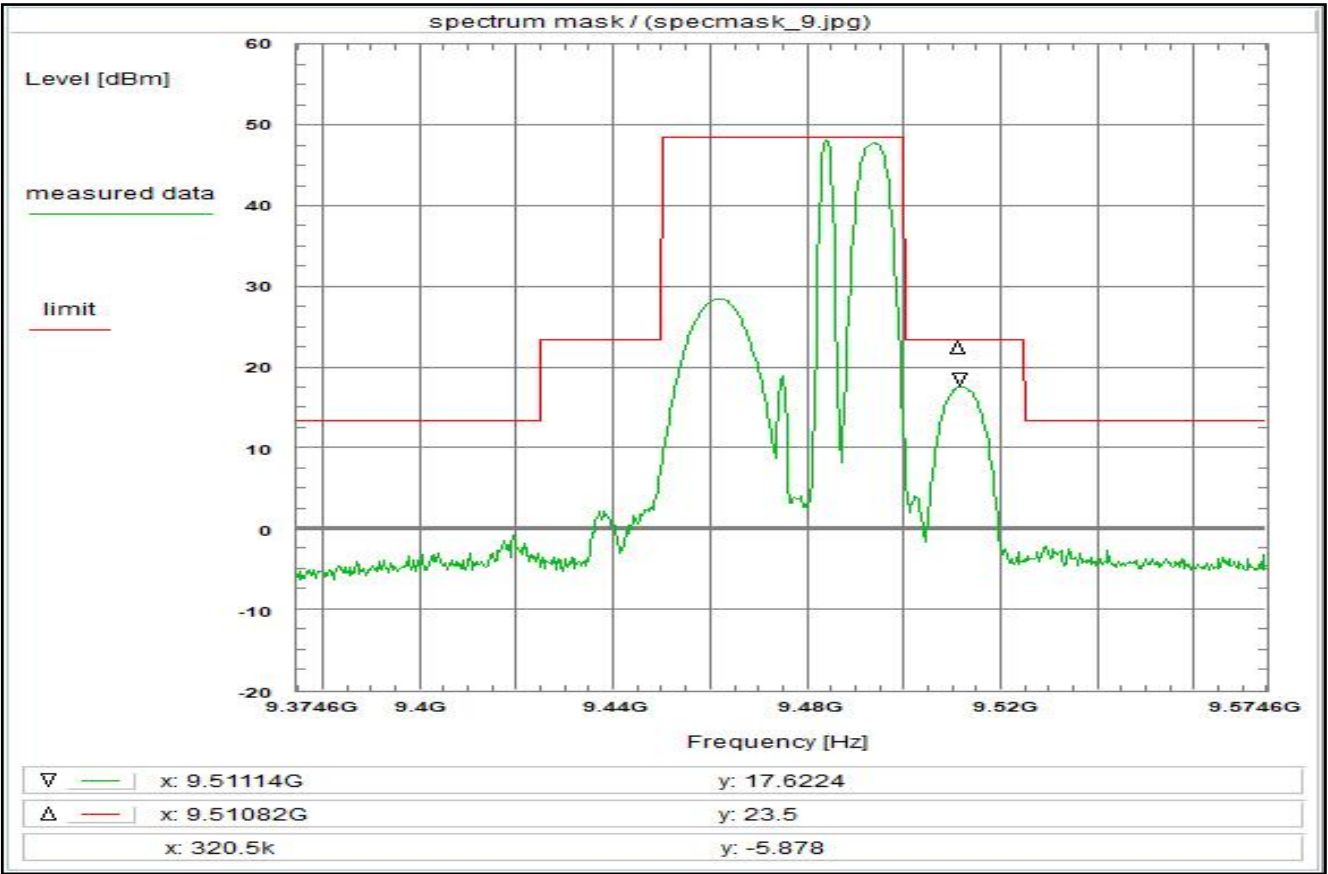
Setup of measurement equipment:
Start frequency: 9.3746 GHz
Stop frequency: 9.5746 GHz
Center frequency: 9.4746 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 12



Subclause: 80.211(f) Spectrum Mask
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
channel 6, mode 48NM

Test setup:
see test report chapter 7.3: cdhgj

Test equipment:
see test report chapter 6.x: C107, R001, U214, W240, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Tue 16/Sep/2025 12:48:23
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

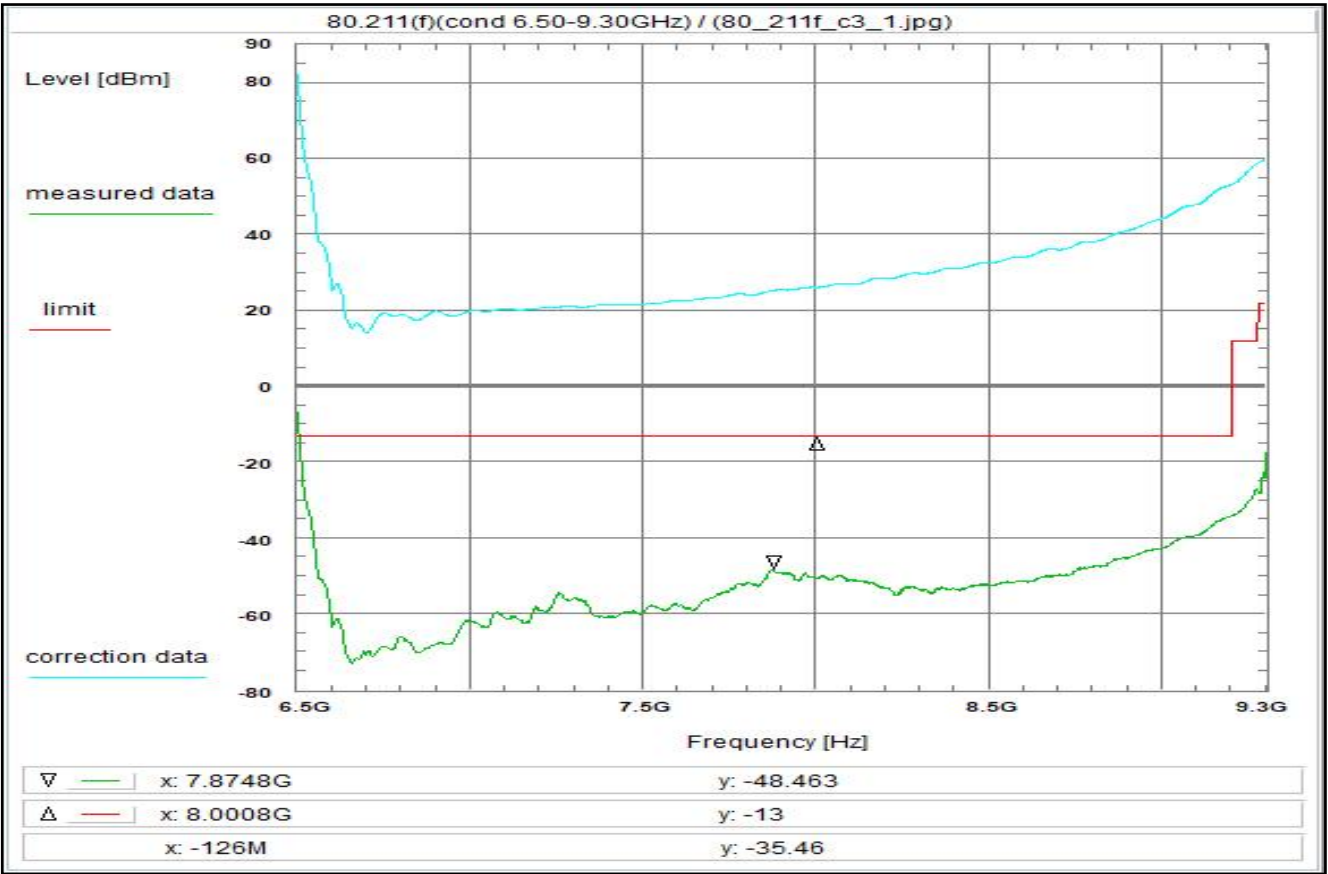
Setup of measurement equipment:
Start frequency: 9.3746 GHz
Stop frequency: 9.5746 GHz
Center frequency: 9.4746 GHz
Frequency span: 200 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 20 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W240) + 43.9 dB
Coaxial cable (C107) + 3.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U214) + 9.5 dB
TOTAL CORRECTION: + 56.7 dB

Remarks:

Necessary bandwidth ~50 MHz

Plot No. 13



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 6.5 - 9.3 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch0, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

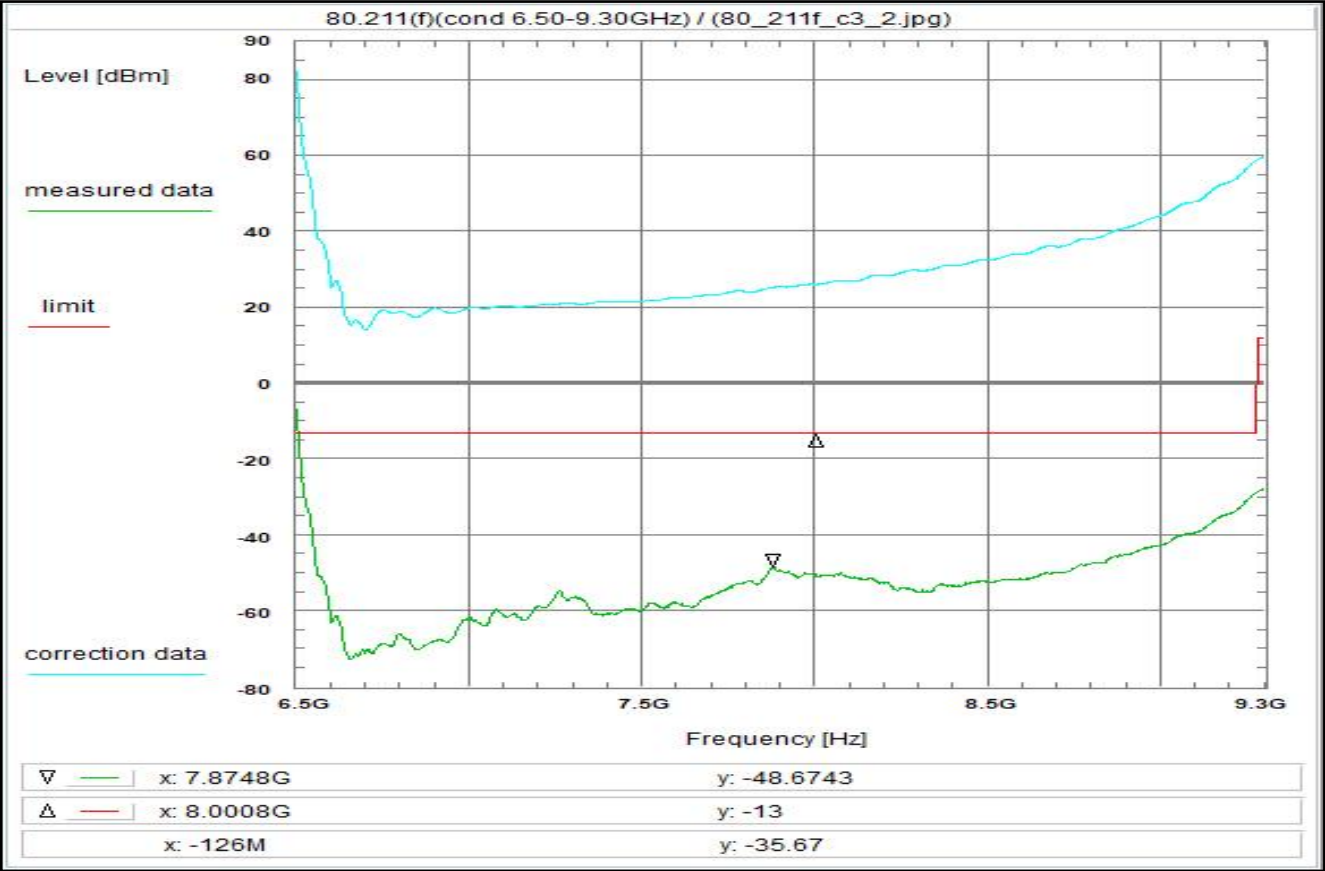
Environment condition:
Date & Time: Mon 22/Sep/2025 19:07:13
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 6.5 GHz
Stop frequency: 9.3 GHz
Center frequency: 7.9 GHz
Frequency span: 2.8 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.6 dB
Coaxial cable (C107) + 3.0 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 7.5 dB
TOTAL CORRECTION: + 30.1 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.
Rather left the plot shows the cut-off frequency of the directional coupler.

Plot No. 14



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 6.5 - 9.3 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch3, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

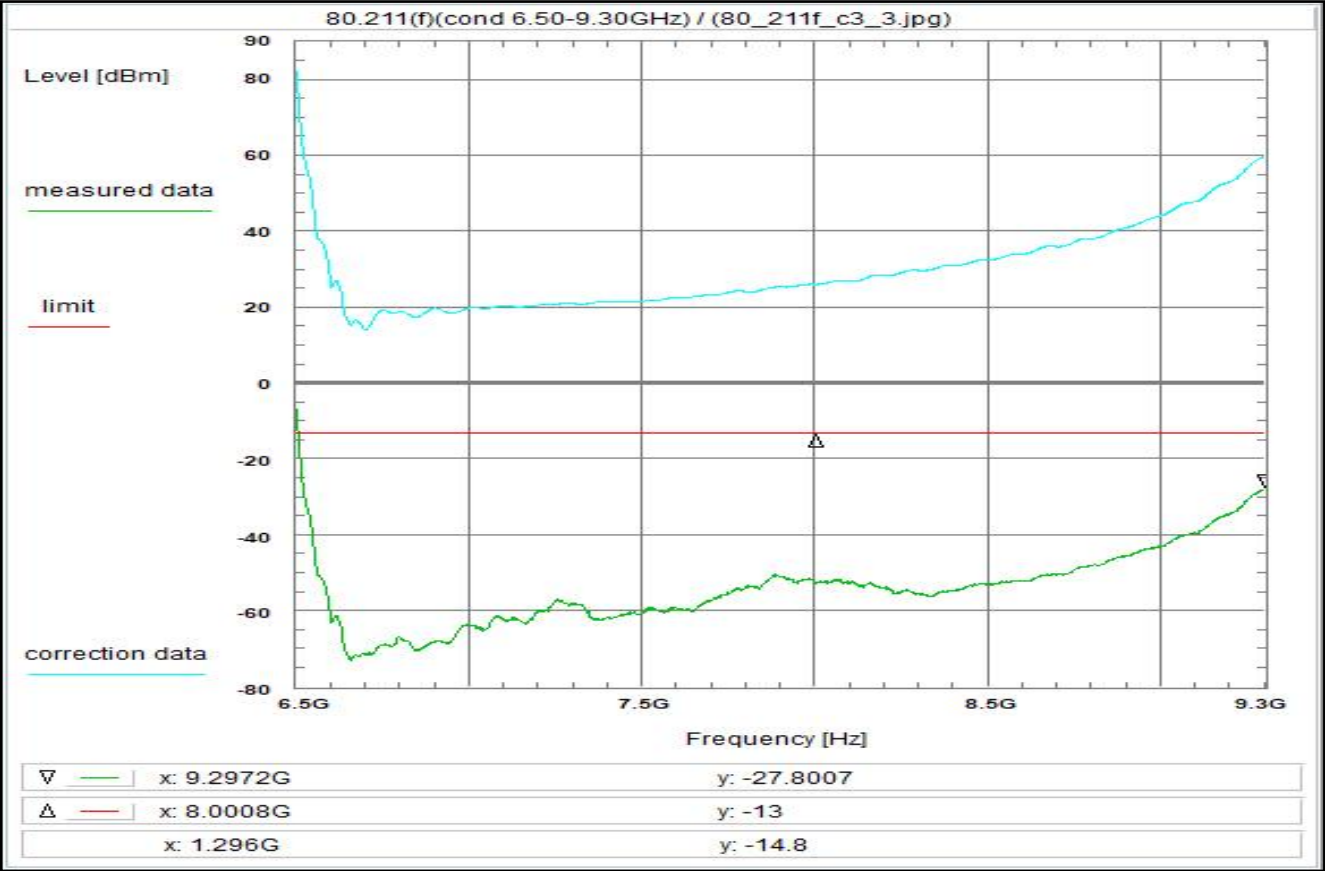
Environment condition:
Date & Time: Mon 22/Sep/2025 19:11:15
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 6.5 GHz
Stop frequency: 9.3 GHz
Center frequency: 7.9 GHz
Frequency span: 2.8 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.6 dB
Coaxial cable (C107) + 3.0 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 7.5 dB
TOTAL CORRECTION: + 30.1 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.
Rather left the plot shows the cut-off frequency of the directional coupler.

Plot No. 15



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 6.5 - 9.3 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch6, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

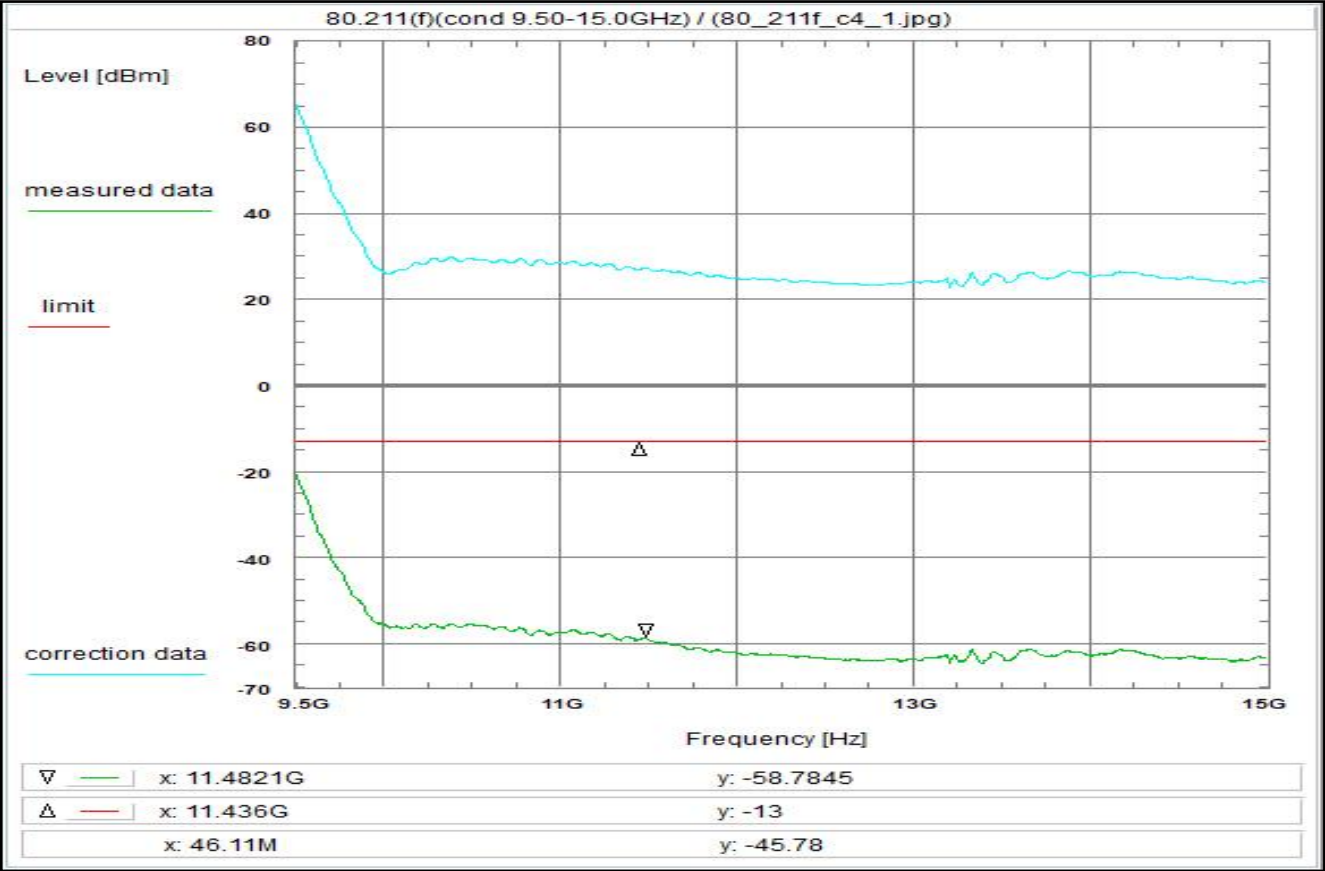
Environment condition:
Date & Time: Mon 22/Sep/2025 19:17:02
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 6.5 GHz
Stop frequency: 9.3 GHz
Center frequency: 7.9 GHz
Frequency span: 2.8 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.6 dB
Coaxial cable (C107) + 3.0 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 7.5 dB
TOTAL CORRECTION: + 30.1 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.
Rather left the plot shows the cut-off frequency of the directional coupler.

Plot No. 16



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 9.5 - 15.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch0, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Mon 22/Sep/2025 19:09:23
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

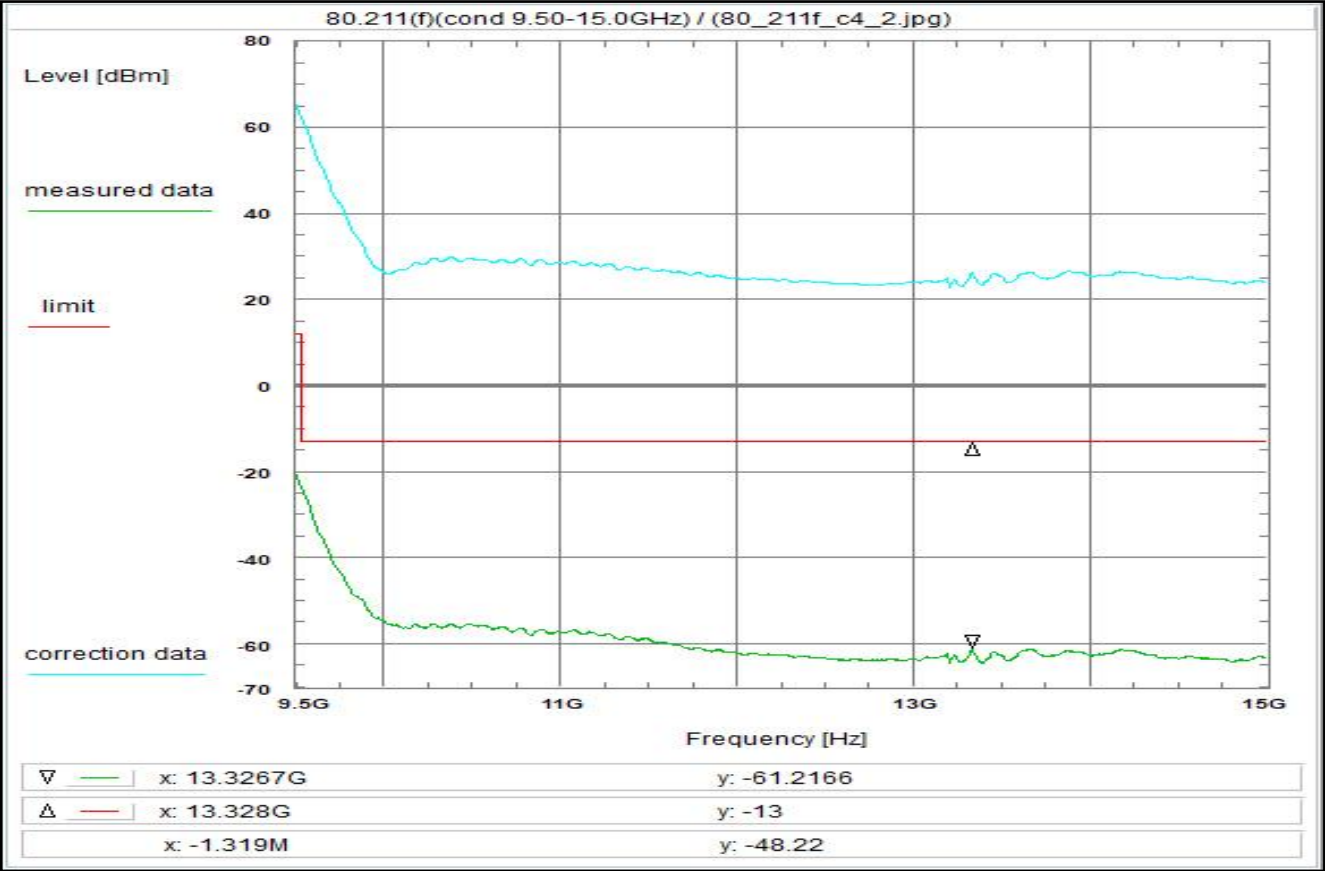
Setup of measurement equipment:
Start frequency: 9.5 GHz
Stop frequency: 15 GHz
Center frequency: 12.25 GHz
Frequency span: 5.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.7 dB
Coaxial cable (C107) + 3.8 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 4.0 dB
TOTAL CORRECTION: + 27.5 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.

Rather left the plot shows parts of the wanted signal

Plot No. 17



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 9.5 - 15.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch3, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Mon 22/Sep/2025 19:12:30
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

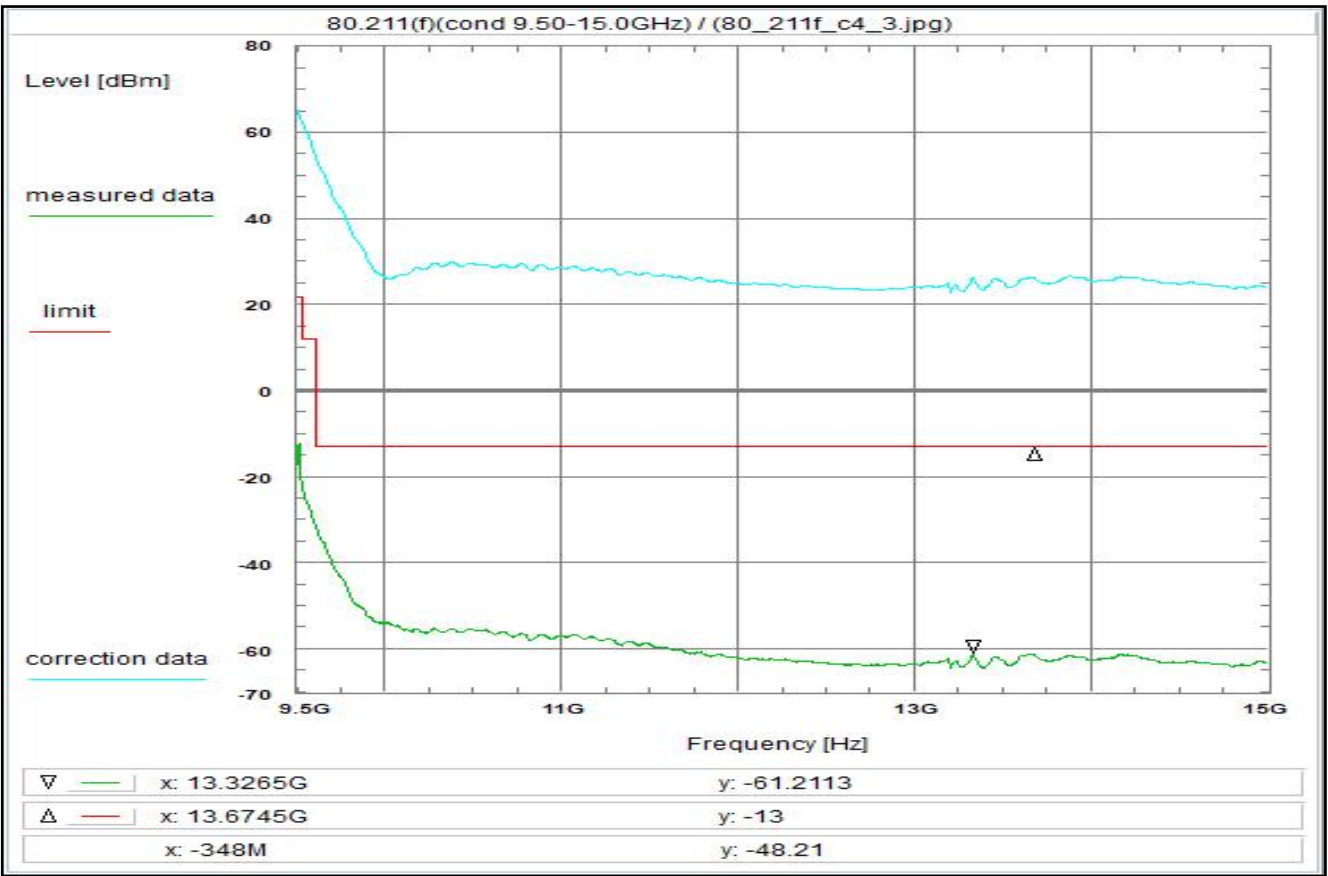
Setup of measurement equipment:
Start frequency: 9.5 GHz
Stop frequency: 15 GHz
Center frequency: 12.25 GHz
Frequency span: 5.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.7 dB
Coaxial cable (C107) + 3.8 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 4.0 dB
TOTAL CORRECTION: + 27.5 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.

Rather left the plot shows parts of the wanted signal

Plot No. 18



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 9.5 - 15.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch6, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, U231, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Mon 22/Sep/2025 19:19:23
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

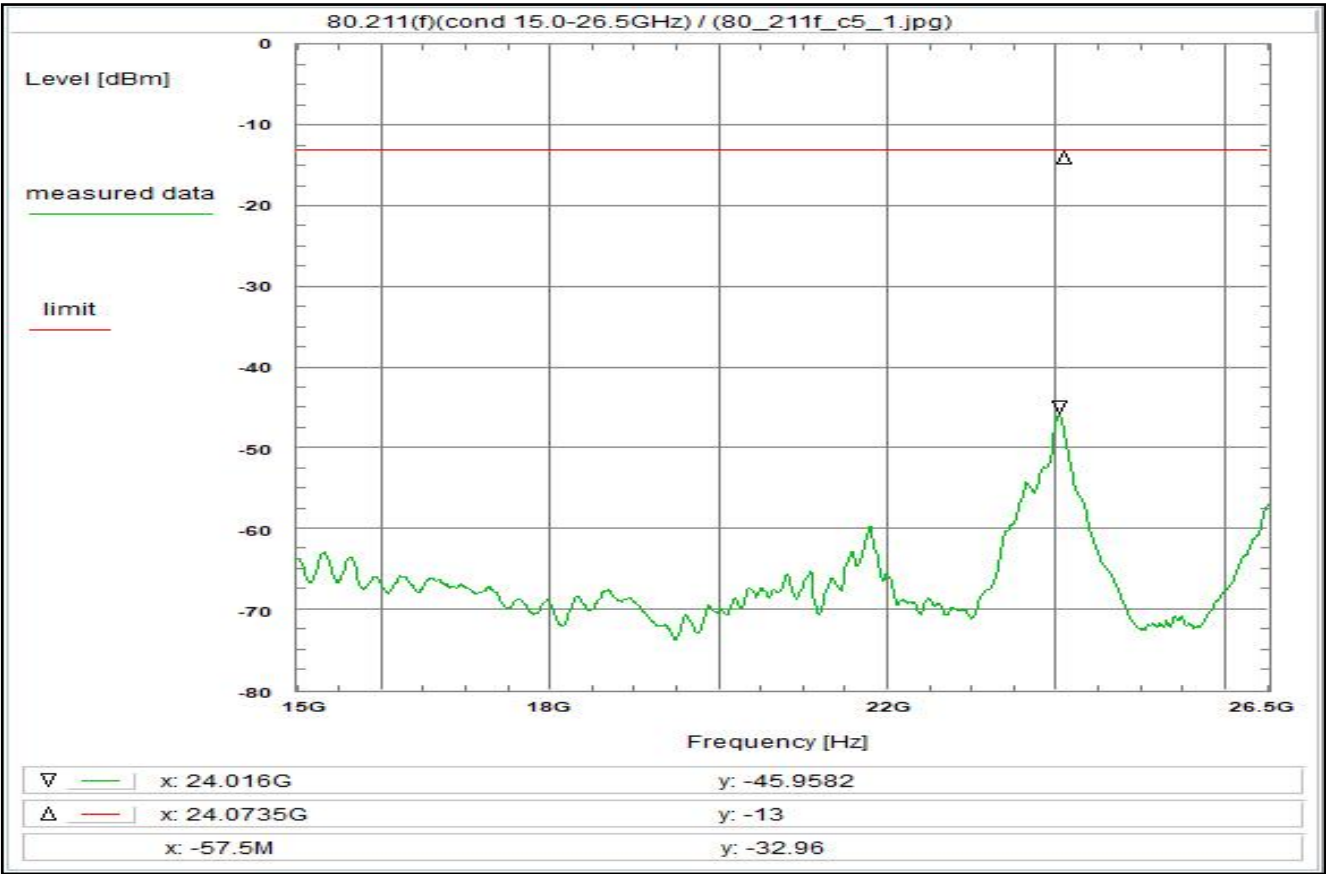
Setup of measurement equipment:
Start frequency: 9.5 GHz
Stop frequency: 15 GHz
Center frequency: 12.25 GHz
Frequency span: 5.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 19.7 dB
Coaxial cable (C107) + 3.8 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Attenuation (U231) + 4.0 dB
TOTAL CORRECTION: + 27.5 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100-->N and Stub Tuner.

Rather left the plot shows parts of the wanted signal

Plot No. 19



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 15.0 - 26.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch0, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

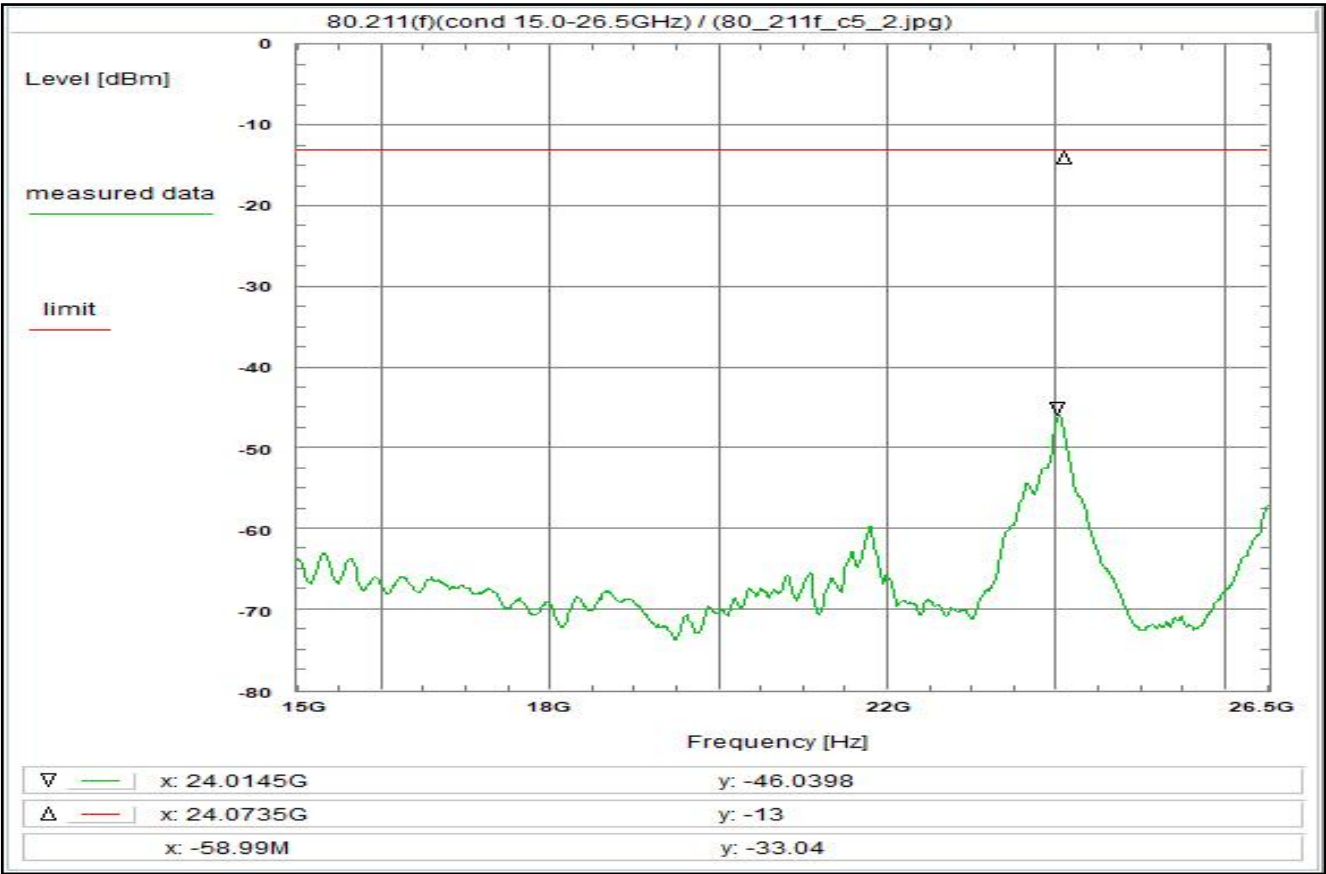
Environment condition:
Date & Time: Fri 26/Sep/2025 11:36:50
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 15 GHz
Stop frequency: 26.5 GHz
Center frequency: 20.75 GHz
Frequency span: 11.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 13.8 dB
Coaxial cable (C107) + 5.5 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 19.3 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R180

Plot No. 20



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 15.0 - 26.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch3, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

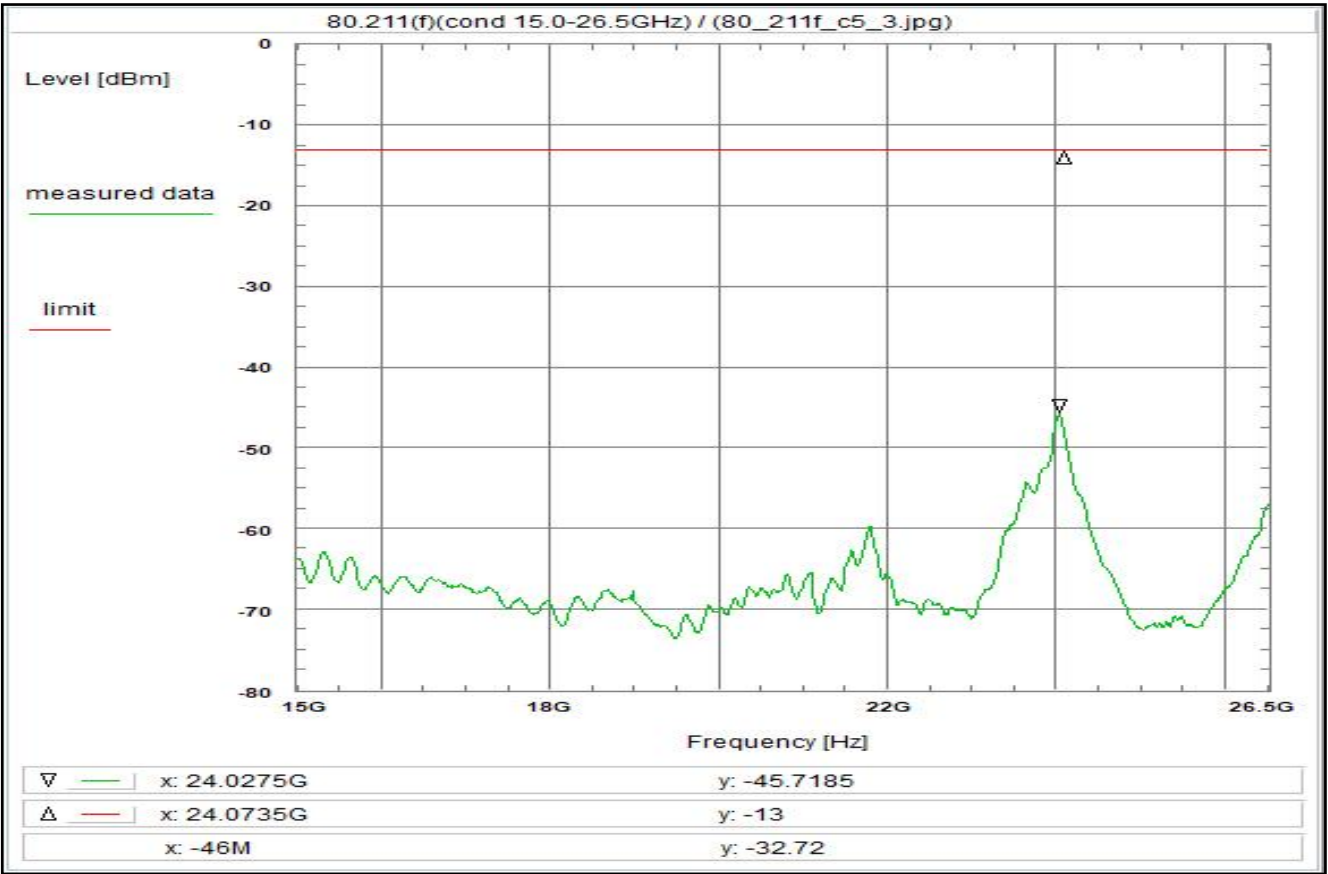
Environment condition:
Date & Time: Fri 26/Sep/2025 11:37:55
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 15 GHz
Stop frequency: 26.5 GHz
Center frequency: 20.75 GHz
Frequency span: 11.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 13.8 dB
Coaxial cable (C107) + 5.5 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 19.3 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R180

Plot No. 21



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 15.0 - 26.5 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch6, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

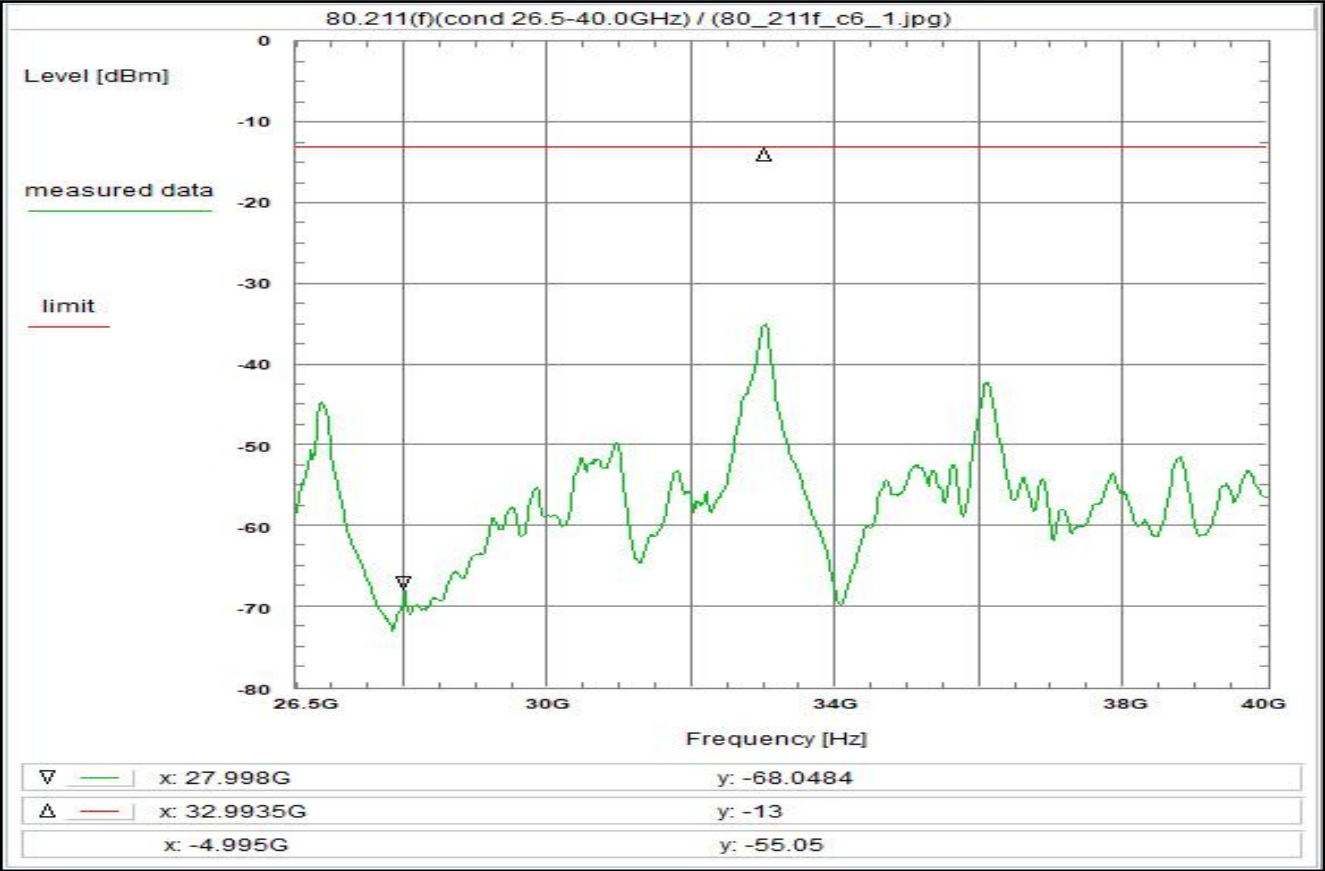
Environment condition:
Date & Time: Fri 26/Sep/2025 11:41:02
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 15 GHz
Stop frequency: 26.5 GHz
Center frequency: 20.75 GHz
Frequency span: 11.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 13.8 dB
Coaxial cable (C107) + 5.5 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 19.3 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R180

Plot No. 22



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 26.5 - 40.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch0, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Fri 26/Sep/2025 11:47:18
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

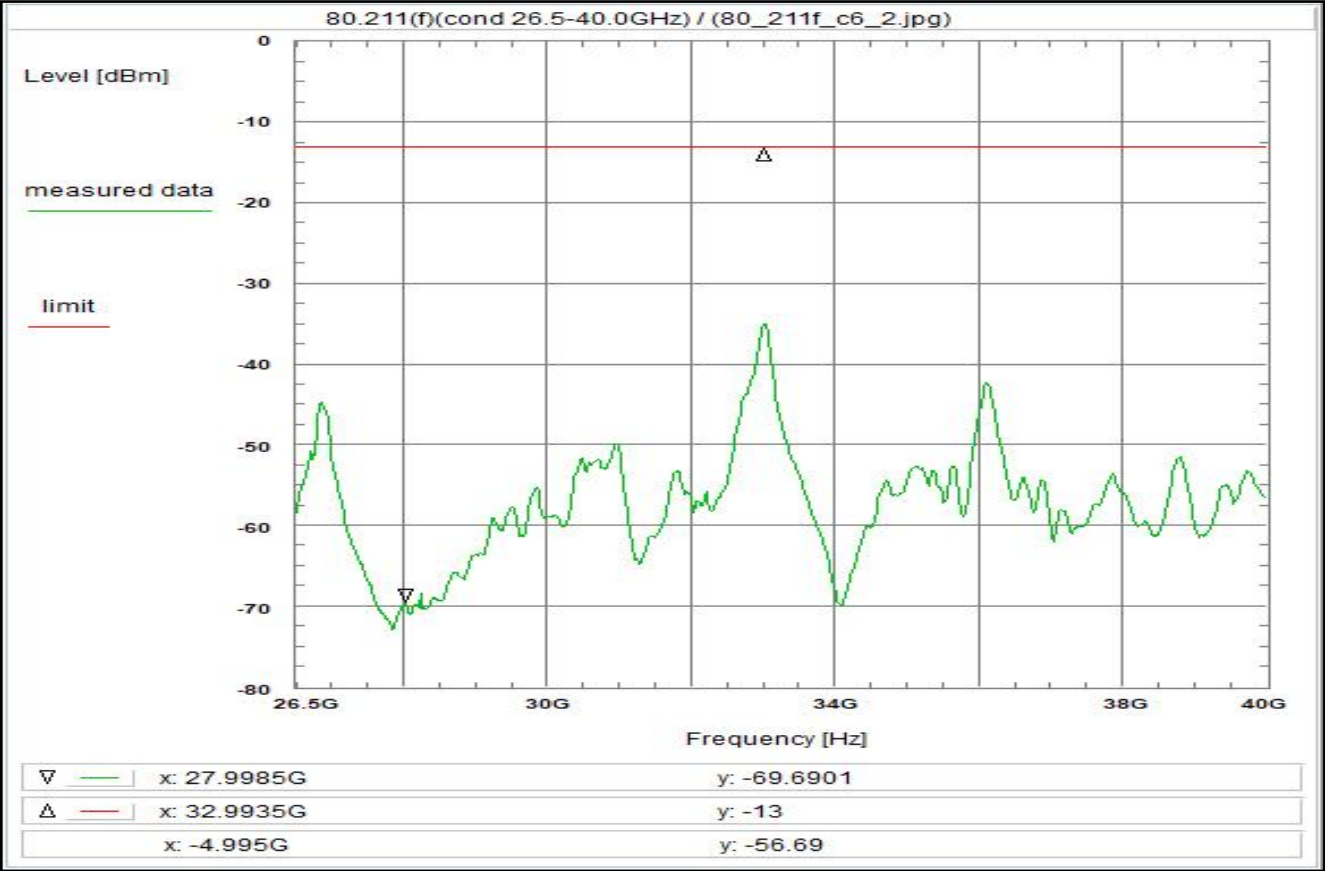
Setup of measurement equipment:
Start frequency: 26.5 GHz
Stop frequency: 40 GHz
Center frequency: 33.25 GHz
Frequency span: 13.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 18.9 dB
Coaxial cable (C107) + 7.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 26.2 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R320

3rd harmonic visible on plot

Plot No. 23



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 26.5 - 40.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch3, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Fri 26/Sep/2025 11:49:03
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

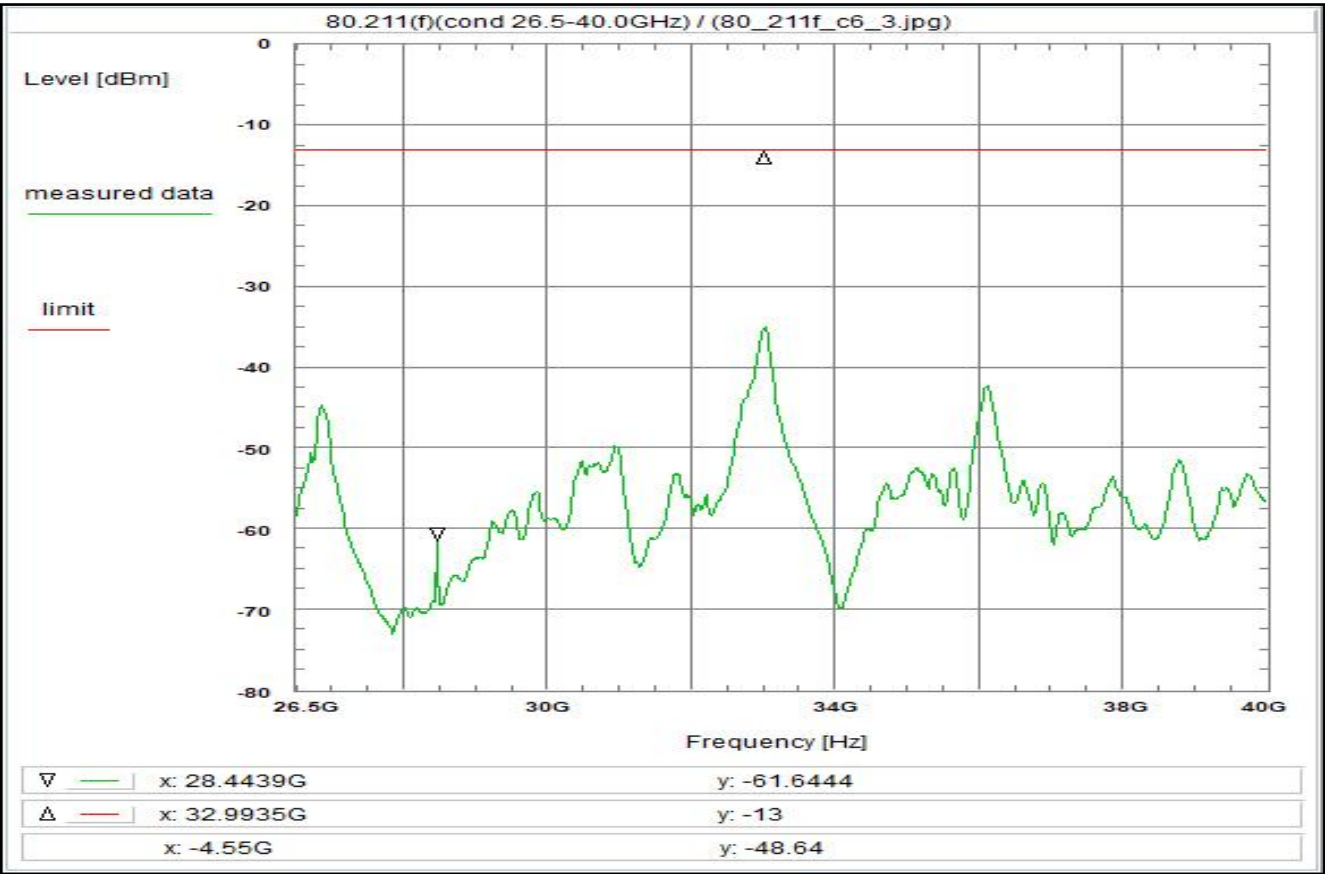
Setup of measurement equipment:
Start frequency: 26.5 GHz
Stop frequency: 40 GHz
Center frequency: 33.25 GHz
Frequency span: 13.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 18.9 dB
Coaxial cable (C107) + 7.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 26.2 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R320

3rd harmonic visible on plot

Plot No. 24



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 26.5 - 40.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch6, worst case of all modes

Test setup:
see test report chapter 7.3: cegj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Fri 26/Sep/2025 11:51:31
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

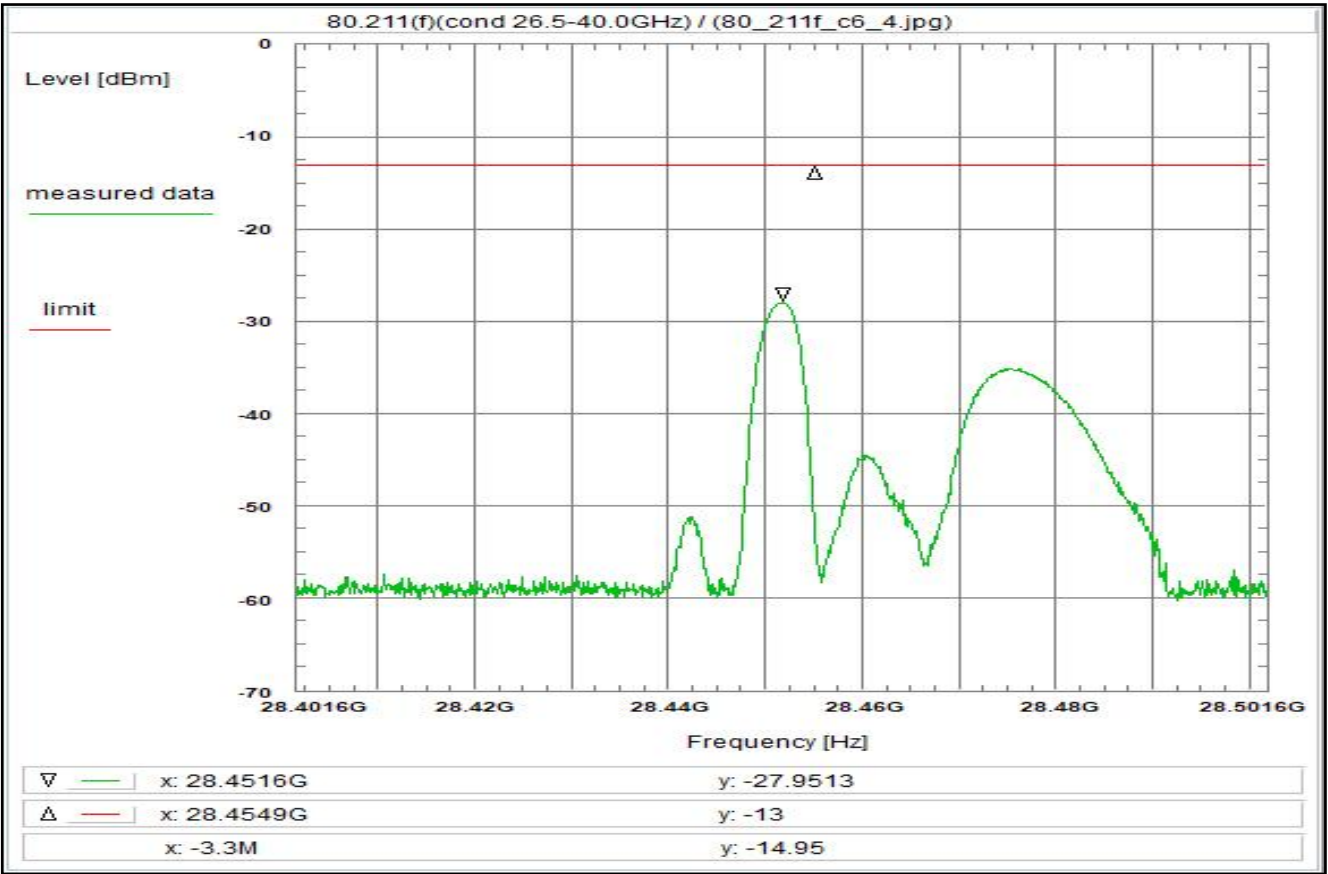
Setup of measurement equipment:
Start frequency: 26.5 GHz
Stop frequency: 40 GHz
Center frequency: 33.25 GHz
Frequency span: 13.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler (W241) + 18.9 dB
Coaxial cable (C107) + 7.3 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 26.2 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R320

3rd harmonic visible on plot

Plot No. 25



Subclause: 80.211(f) Conducted Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 26.5 - 40.0 GHz

Limit:
Limit acc. to FCC 47 CFR §80.211(f)

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
Ch6, worst case of all modes

Test setup:
see test report chapter 7.3: hgj

Test equipment:
see test report chapter 7.3: C107, R001, W022, W241, W242

Remark:

Test result: Test passed

Environment condition:
Date & Time: Mon 22/Sep/2025 18:42:21
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

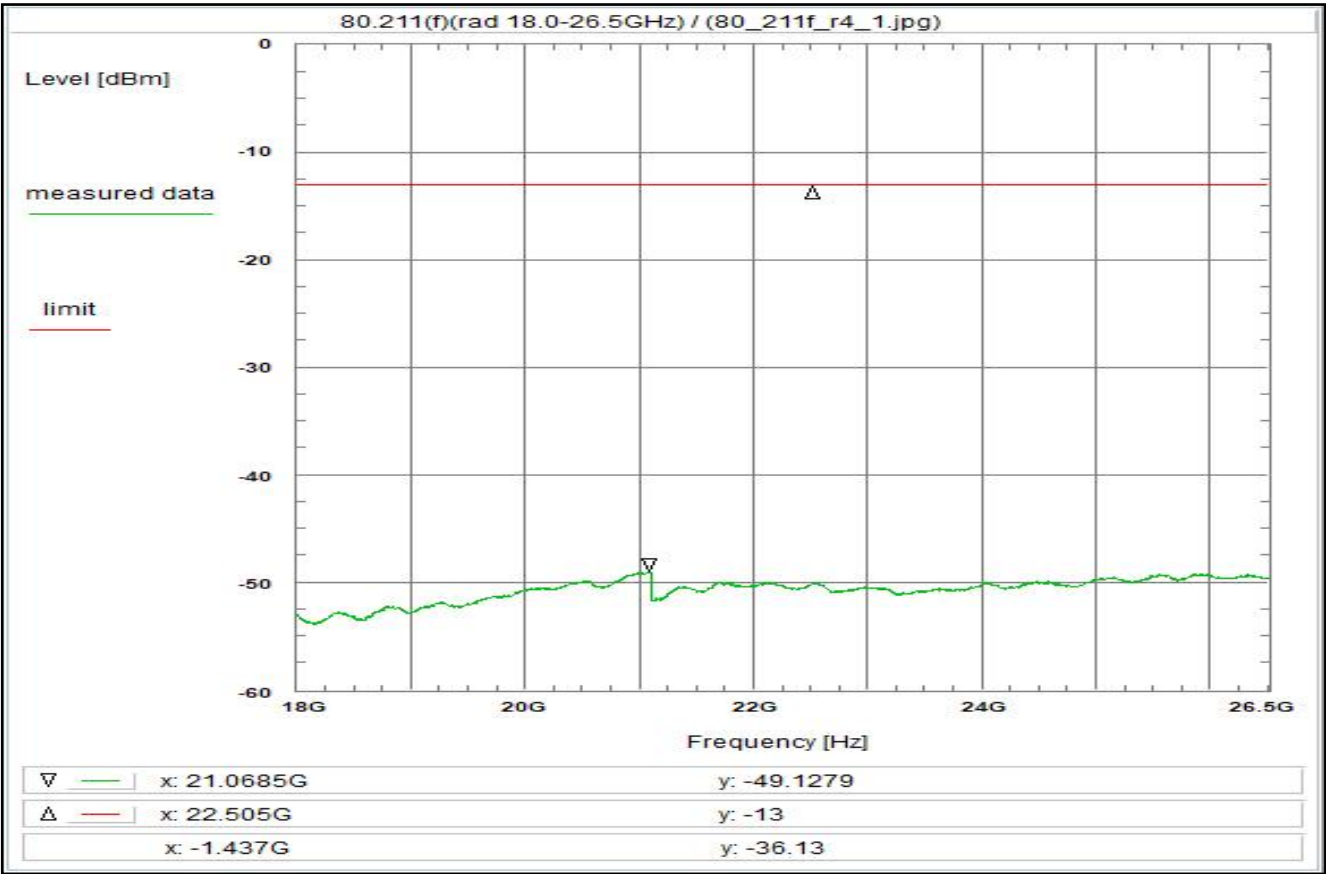
Setup of measurement equipment:
Start frequency: 28.4016 GHz
Stop frequency: 28.5016 GHz
Center frequency: 28.4516 GHz
Frequency span: 100 MHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: Pos Peak

Correction:
Directional coupler (W241) + 8.7 dB
Coaxial cable (C107) + 6.9 dB
DUT-Antenna + 0.0 dBi
Test antenna + 0.0 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation + 0.0 dB
TOTAL CORRECTION: + 15.6 dB

Remarks:
Max-Hold Mode
Test setup with taper transitions R100/R320

3rd harmonic measurement

Plot No. 26



Subclause: 80.211(f) Radiated Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 18.0 - 26.5 GHz

Limit:
Limit acc. to 80.211(f): -13 dBm

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
worst case of all modes and channels

Test setup:
see test report chapter 7.2:

Test equipment:
see test report chapter 7.3: A019, C107, R001

Remark:

Test result: Test passed

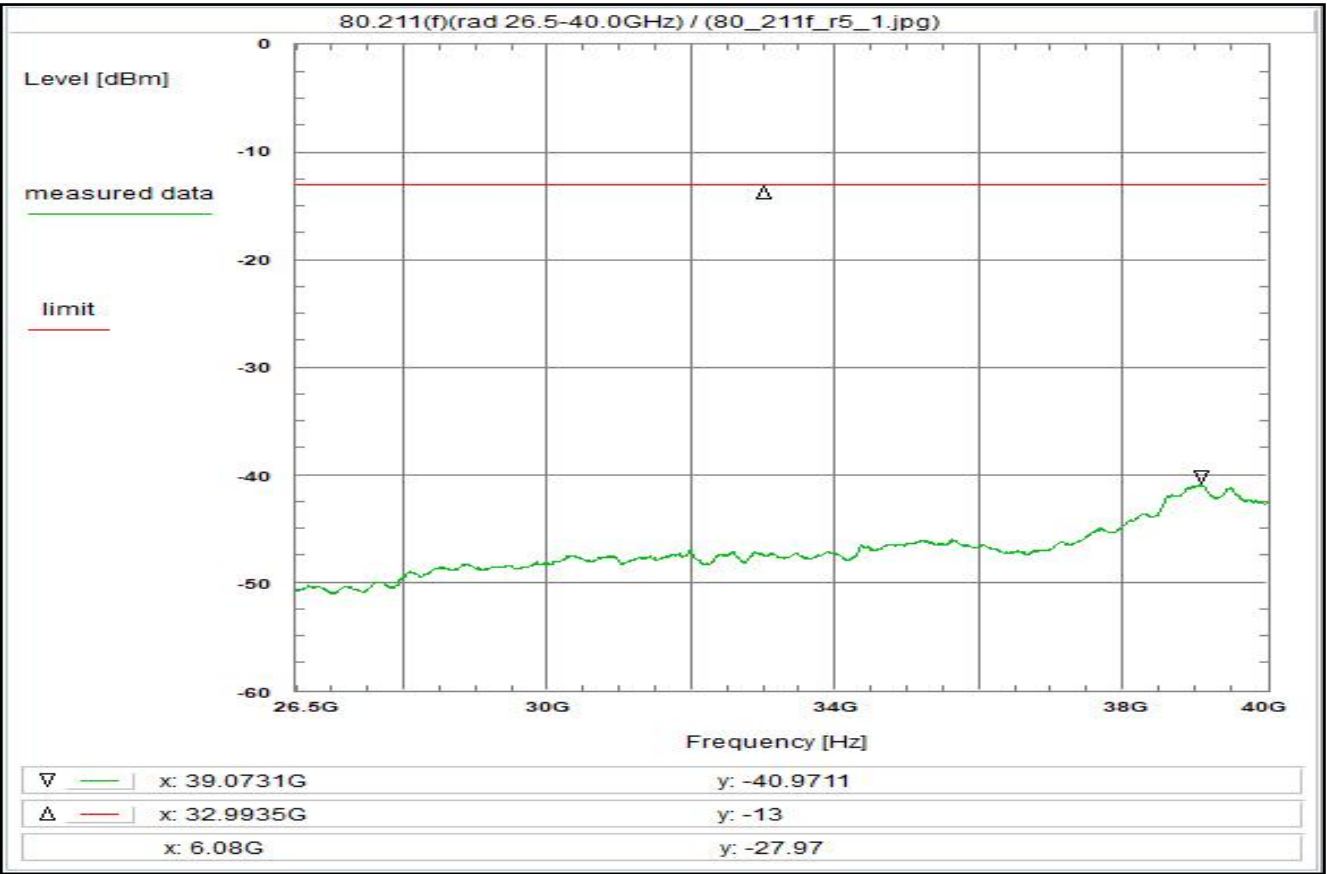
Environment condition:
Date & Time: Fri 26/Sep/2025 13:04:18
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 18 GHz
Stop frequency: 26.5 GHz
Center frequency: 22.25 GHz
Frequency span: 8.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

Correction:
Directional coupler + 0.0 dB
Coaxial cable (C107) + 5.7 dB
DUT-Antenna + 0.0 dBi
Test antenna (A019) - 19.3 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation (22.25GHz, 0.3m) + 48.9 dB
TOTAL CORRECTION: + 35.3 dB

Remarks:
Max-Hold Mode

Plot No. 27



Subclause: 80.211(f) Radiated Spurious Emissions
Pulsed rf-carrier in frequency range 9.3 - 9.5 GHz
Examination of the frequency range 26.5 - 40.0 GHz

Limit:
Limit acc. to 80.211(f): -13 dBm

Test results:
see plot (an explicit table was not generated)

Operating condition of DUT:
operating condition 1, see test report chapter 6.4
worst case of all modes and channels

Test setup:
see test report chapter 7.2:

Test equipment:
see test report chapter 7.3: A021, C107, R001

Remark:

Test result: Test passed

Environment condition:
Date & Time: Fri 26/Sep/2025 13:09:29
Location: Cetecom advanced GmbH, Laboratory RC8G
Temperature: 22 °C
Humidity: 55 %
Voltage: 115 Vac

Setup of measurement equipment:
Start frequency: 26.5 GHz
Stop frequency: 40 GHz
Center frequency: 33.25 GHz
Frequency span: 13.5 GHz
Resolution-BW: 1 MHz
Video-BW: 3 MHz
Input attenuation: 0 dB
Trace-Mode: Max-Hold
Detector-Mode: RMS

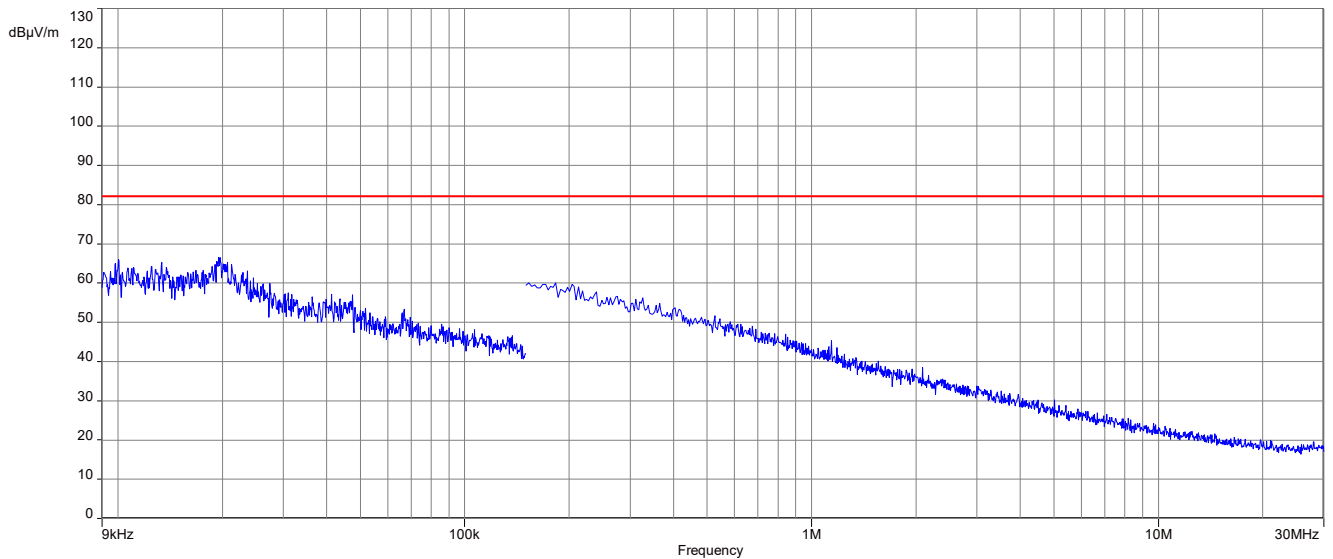
Correction:
Directional coupler + 0.0 dB
Coaxial cable (C107) + 7.3 dB
DUT-Antenna + 0.0 dBi
Test antenna (A021) - 19.6 dB
BW correction factor + 0.0 dB
Atten. between HPA and feedhorn - 0.0 dB
Freefield attenuation (33.25GHz, 0.2m) + 48.9 dB
TOTAL CORRECTION: + 36.6 dB

Remarks:
Max-Hold Mode

3 Measurement results, Spurious emissions 30MHz - 18 GHz

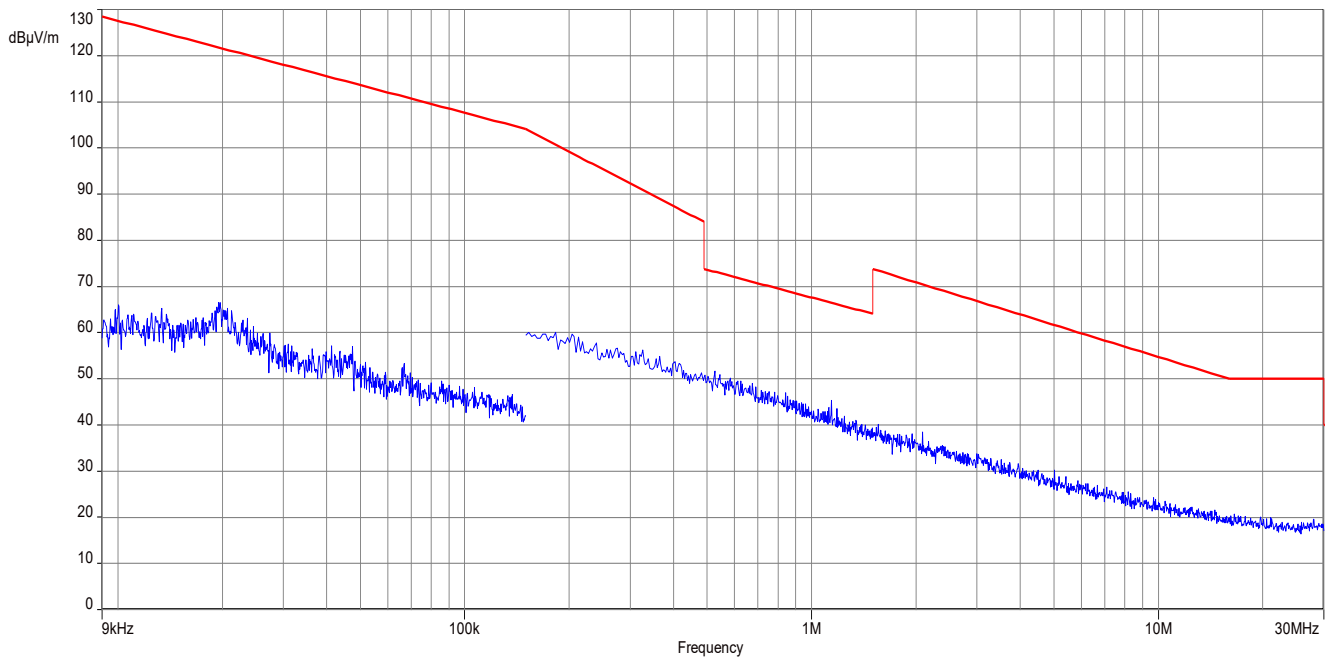
This Chapter 3 consists of 5 pages including this page.

Plot No. 1: 9 kHz – 30 MHz, antenna vertical / horizontal Tx

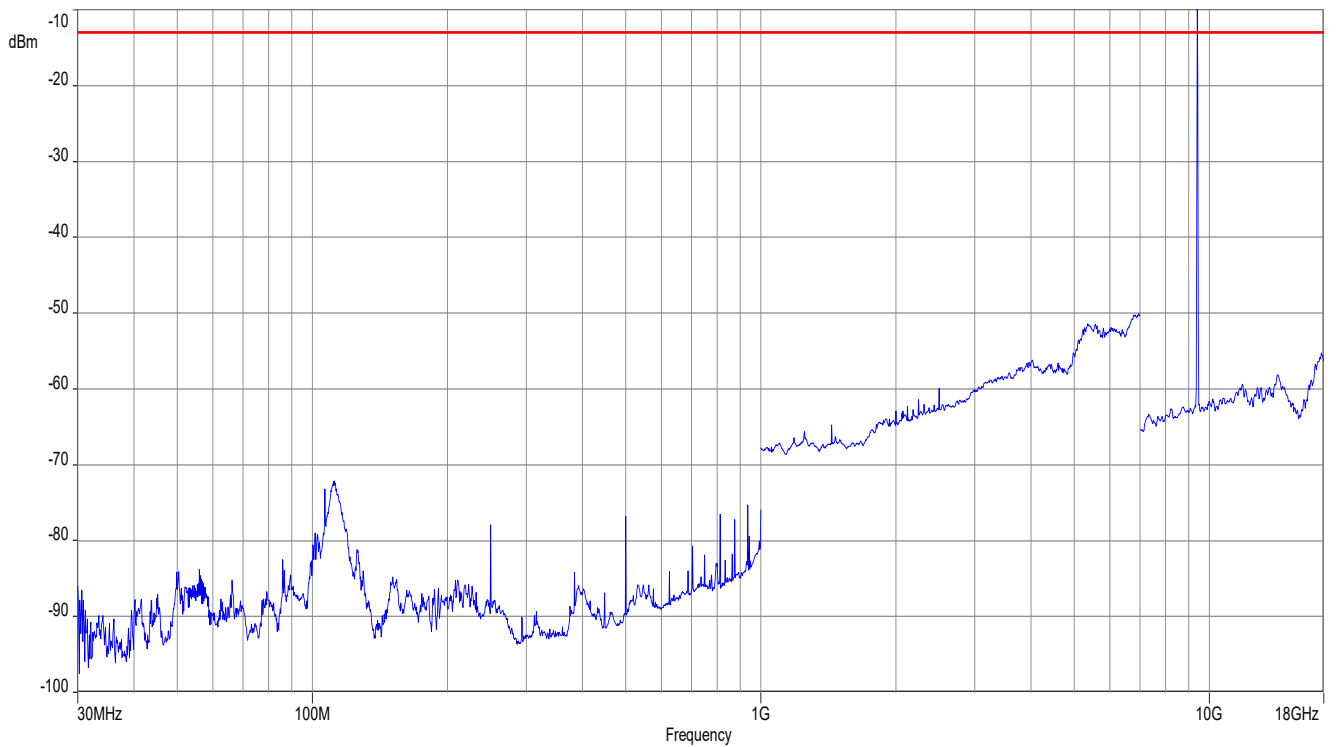


Note: the shown limit of 82.2 dBμV/m at 3m measurement distance corresponds to the spurious limit of -13 dBm

Plot No. 2: 9 kHz – 30 MHz, antenna vertical / horizontal Tx Rx (FCC Part 15)

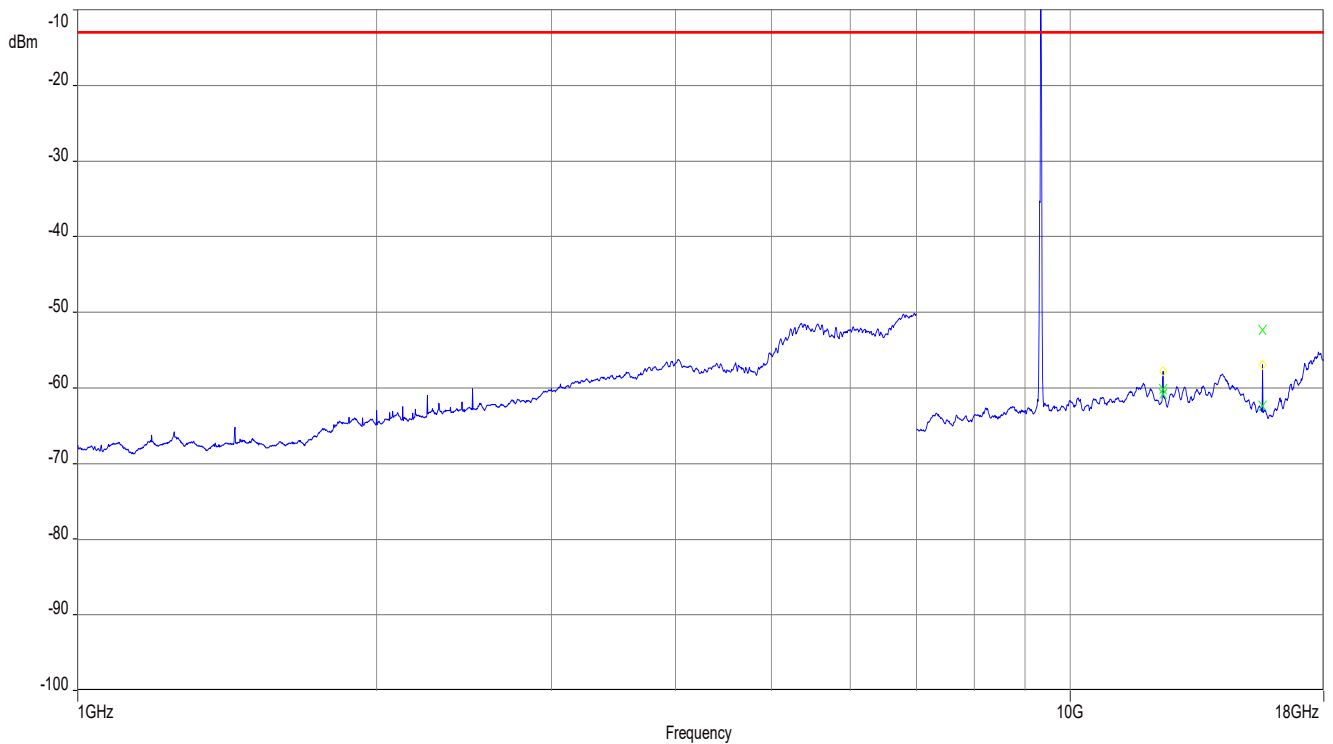


Plot No. 3: 30 MHz – 18 GHz, antenna vertical / horizontal Tx, mid channel



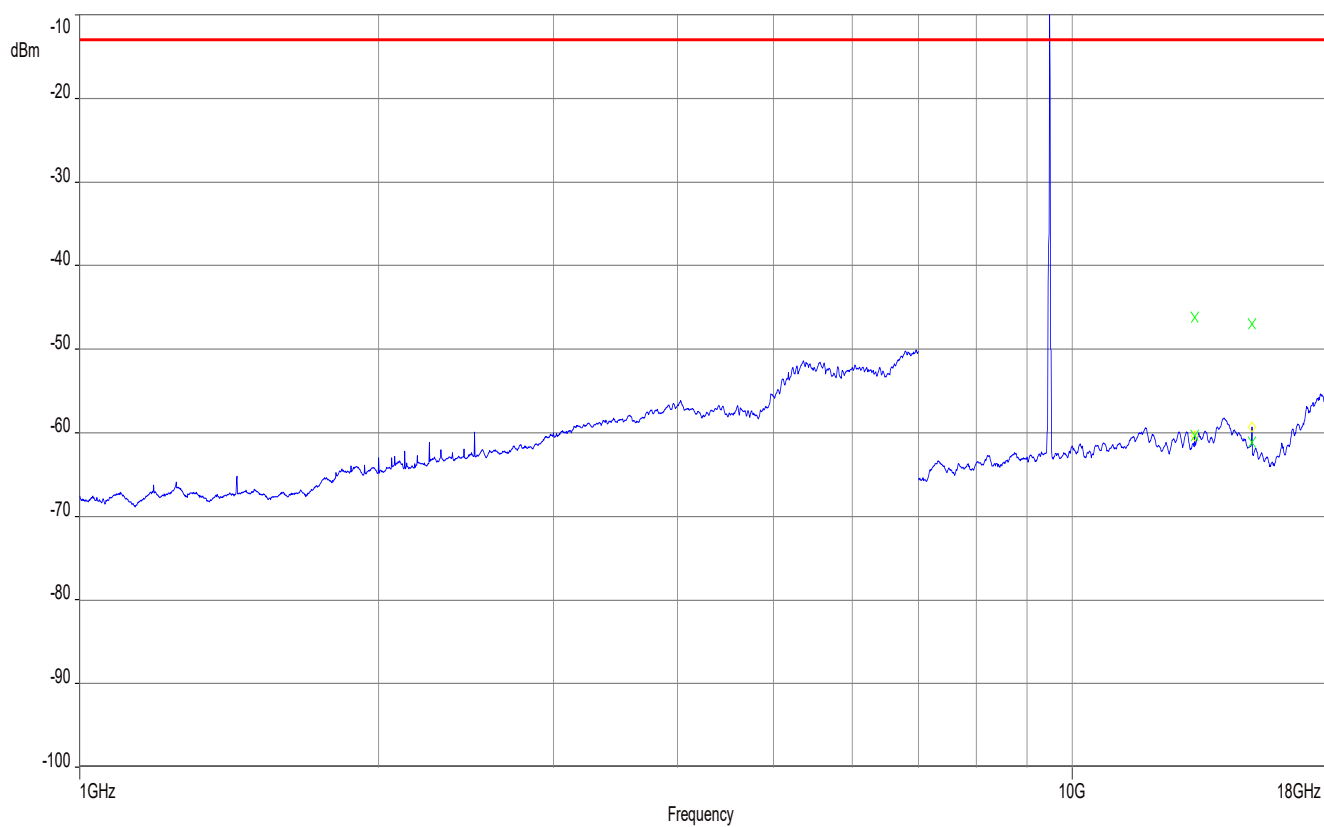
Note: Carrier visible on plot

Plot No. 4: 1 GHz – 18 GHz, antenna vertical / horizontal Tx, low channel



Note: Carrier visible on plot

Plot No. 5: 30 MHz – 18 GHz, antenna vertical / horizontal Tx, high channel

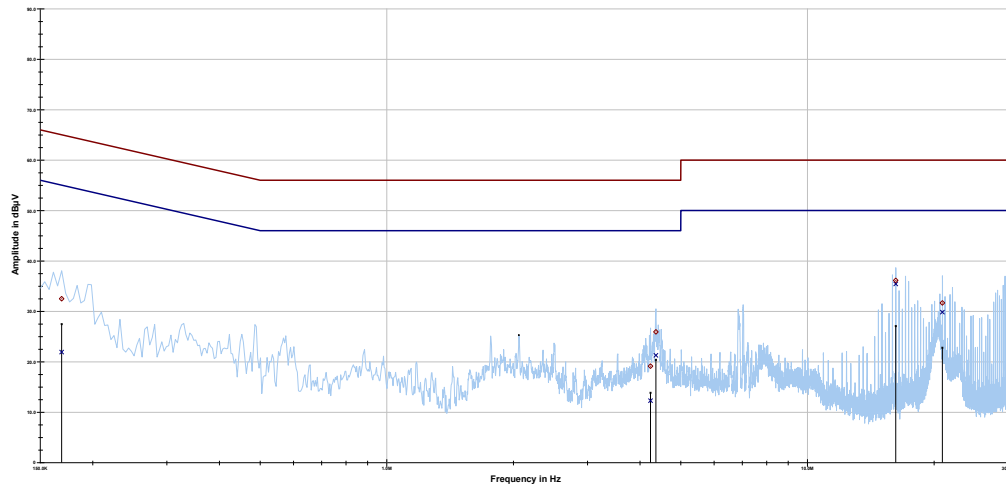
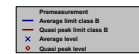


Note: Carrier visible on plot

4 Measurement results, AC Power Line Conducted Emission Limits

This Chapter 3 consists of 3 pages including this page.

Measurement
Phase line



Project ID: 1-0697/25-01-02

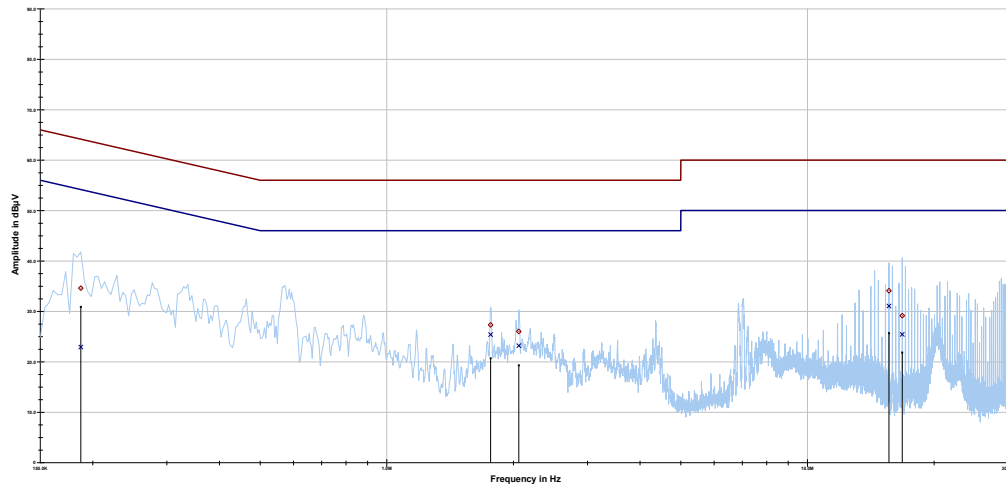
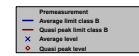
Phase line tbl
Project ID: 1-0697/25-01-02

Frequency	Quasi peak level	Margin quasi peak	Limit QP	Average level	Margin average	Limit AV
MHz	dBμV	dB	dBμV	dBμV	dB	dBμV
0.168656	32.50	32.53	65.026	21.93	33.54	55.467
4.235719	19.14	36.86	56.000	12.28	33.72	46.000
4.362581	25.93	30.07	56.000	21.28	24.72	46.000
16.216763	36.14	23.86	60.000	35.44	14.56	50.000
20.936794	31.67	28.33	60.000	29.85	20.15	50.000

Project ID - 1-0697/25-01-02
EUT - Anschütz SST (X_Band)
Operating mode - Tx Ch3

Measurement

Neutral line



Project ID: 1-0697/25-01-02

Neutral line tbl

Project ID: 1-0697/25-01-02

Frequency	Quasi peak level	Margin quasi peak	Limit QP	Average level	Margin Average	Limit AV
MHz	dBμV	dB	dBμV	dBμV	dB	dBμV
0.187312	34.60	29.55	64.155	22.91	32.02	54.934
1.765631	27.32	28.68	56.000	25.40	20.60	46.000
2.060400	26.01	29.99	56.000	23.19	22.81	46.000
15.623494	34.08	25.92	60.000	31.07	18.93	50.000
16.802569	29.15	30.85	60.000	25.43	24.57	50.000

Project ID - 1-0697/25-01-02

EUT - Anschütz SST (X_Band)

Operating mode - Tx Ch3

5 Document history

Version	Applied changes	Date of release
R01-D1	Initial release - DRAFT	2025-10-15
R01	Initial release	2026-04-14