TEST REPORT

of the accredited test laboratory

TÜV Nr.:M/FG-15/138

Applicant:	Lautsprecher Teufel GmbH Budapester Strasse 44 10787 Berlin – Germany
Tested Product:	WIFI Module
FCC-ID:	2ADQS-STREAM800
IC-ID:	N/A
Manufacturer:	StreamUnlimited Engineering GmbH High Tech Campus Vienna Gutheil-Schoder-Gasse 10 1102 Wien – Austria
Output power / field strength:	7,6 mW cond. **power supply:** 5 VDC
Frequency range:	5180 - 5825 MHz with gaps **Channel separation:** 20 MHz
Standard:	FCC: 47 CFR Part 15 (October 1, 2014 edition)

TUV Austria Services GmbH
Test laboratory for EMC

Supervisor of EMC-laboratory:

Ing. Wilhelm Seier

Rundsiegel

checked by:

Ing. Michael Emminger

27.03.2015

Copy Nbr.: 01

The results of this test report only refer to the provided equipment.

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TÜV ®

Akkreditierung Austria 0274 ISO/IEC 17025

Akkreditiert als:
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Verifizierungsstelle

Notified Body 0408
IC 2932K-1

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Ambient temperature: 24°C Relative humidity: 25%

LIST OF MEASUREMENTS

The complete list of measurements called for in 47 CFR 15 is given below.

Ambient temperature: 24°C Relative humidity: 25%

TEST OBJECT DATA

General EUT Description

This WIFI module is using either 2.4 GHz Frequencies or 5 GHz. This test report is only for the 5 GHz part. See additional test report for 2.4 GHz measurement results.

2.1033 (c) Technical description

2.1033 (4) Type of emission:
802.11 standards – Channel bandwidths 20 MHz and 40 MHz (aggregation of 2 non-overlapping OFDM channels) – Channel spacing 20 / 40 MHz respectively.

2.1033 (5) Frequency range:
5180 till 5240 MHz; 5260 till 5320 MHz; 5500 till 5700 MHz and 5745 till 5825 MHz (channel center frequencies) in 20 MHz steps resulting in 24 Channels of 20 MHz bandwidth
5190 till 5230 MHz; 5270 till 5310 MHz; 5510 till 5670 MHz and 5755 till 5795 MHz (channel center frequencies) in 40 MHz steps resulting in 11 Channels of 40 MHz bandwidth

2.1033 (6) Power range and Controls: The maximum peak output power is 7,6 mW and there is no power regulation.

2.1033 (7) Maximum output power rating: 7,6 mW.

2.1033 (8) DC Voltage and Current: 5 V DC
maximum current consumption: 200 mA)

RSS-135 This standard does not apply to:
1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

Tests were performed on 11th, 12th and 27th February 2015.

Ambient temperature: 24°C Relative humidity: 25%

Number of channels and channel spacing **§ 2.1033**

Conducted Measurement

Rated output power: 7,6 mW

There are 24 Channels used starting at 5170 till 5825 MHz (with gaps) each separated by 20 MHz channel spacing with a maximum bandwidth of 20 MHz.
Two channels spaced by 20 MHz can be used simultaneously to give a RF-Bandwidth of 40 MHz, resulting in 11 different channels with 40 MHz bandwidth and center frequencies of 5180 till 5795 MHz each separated by 40 MHz channel spacing.

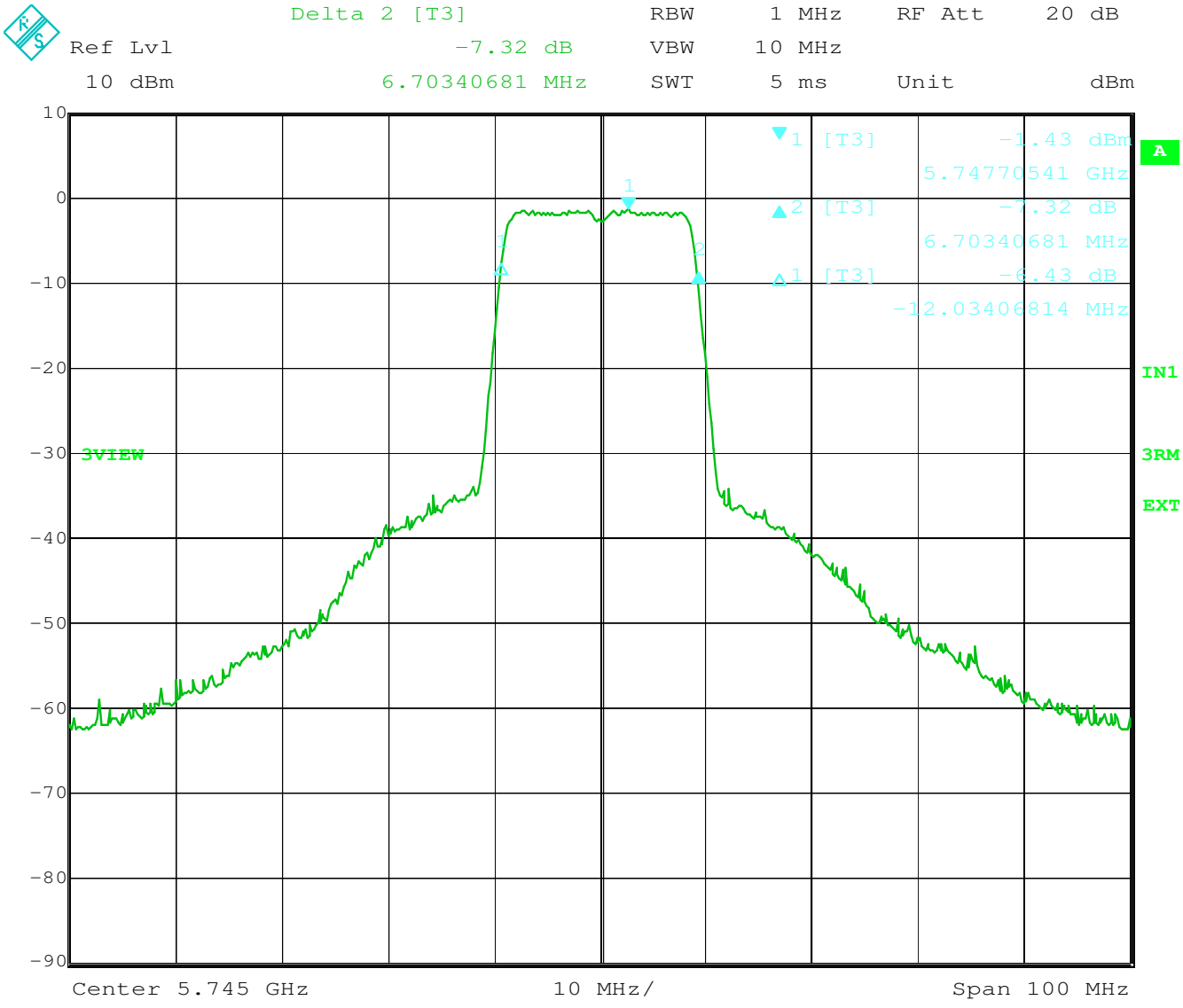
Test Equipment used: N/A

Ambient temperature: 24°C Relative humidity: 25%

6dB Bandwidth **§ 15.407(e)**

Conducted Measurement

Rated output power: 7,6 mW Channel 149 (5745 MHz center frequency)



Date: 12.FEB.2015 16:19:08

6dB Bandwidth: 18,737 MHz

LIMIT **SUBCLAUSE 15.407(e)**

Frequency range 5725 – 5850 MHz	6 dB Bandwidth at least 500 kHz

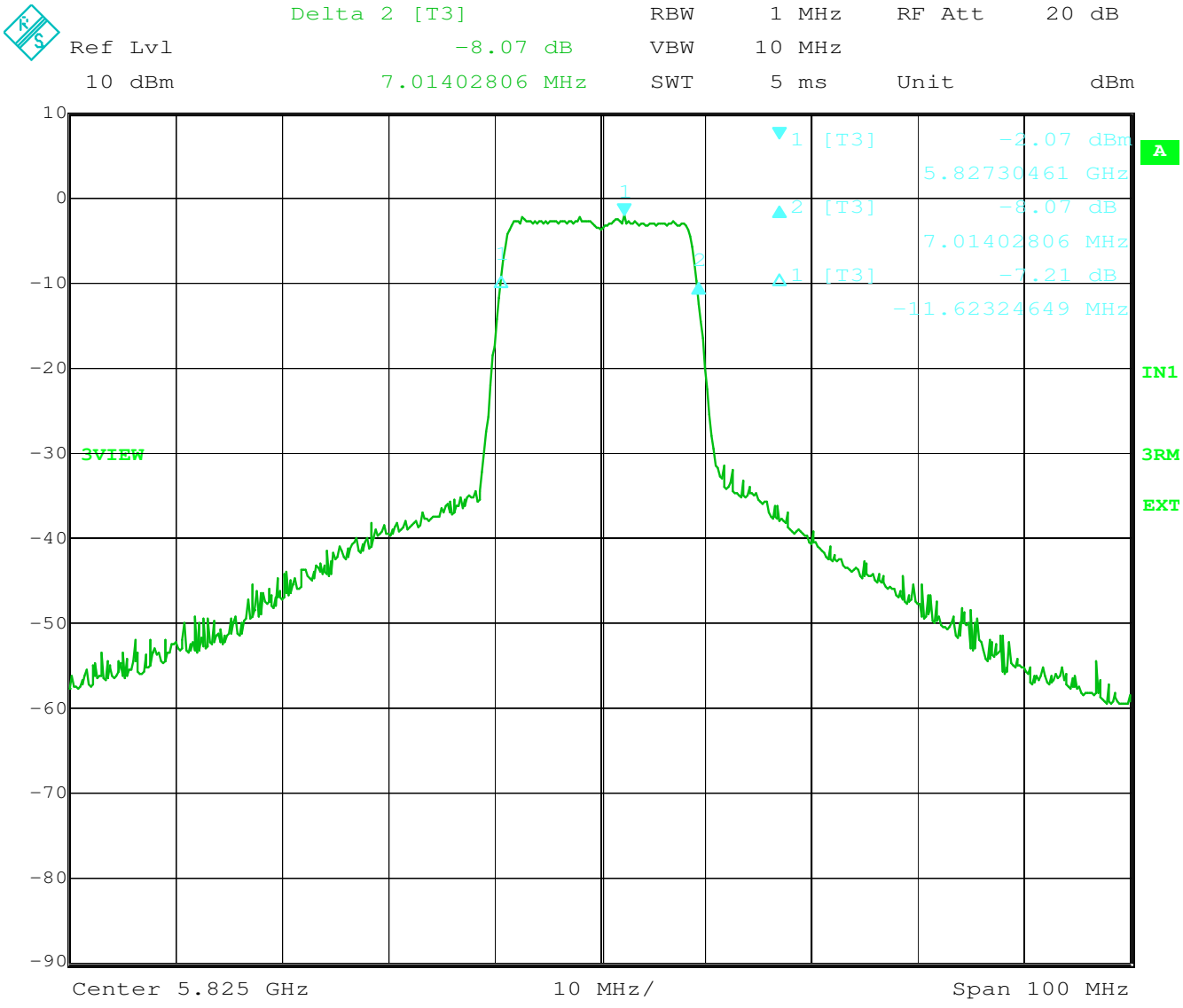
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

6dB Bandwidth **§ 15.407(e)**

Conducted Measurement

Rated output power: 7,6 mW Channel 165 (5825 MHz center frequency)



Date: 12.FEB.2015 16:23:04

6dB Bandwidth: 18,637 MHz

LIMIT **SUBCLAUSE 15.407(e)**

Frequency range 5725 – 5850 MHz	6 dB Bandwidth at least 500 kHz

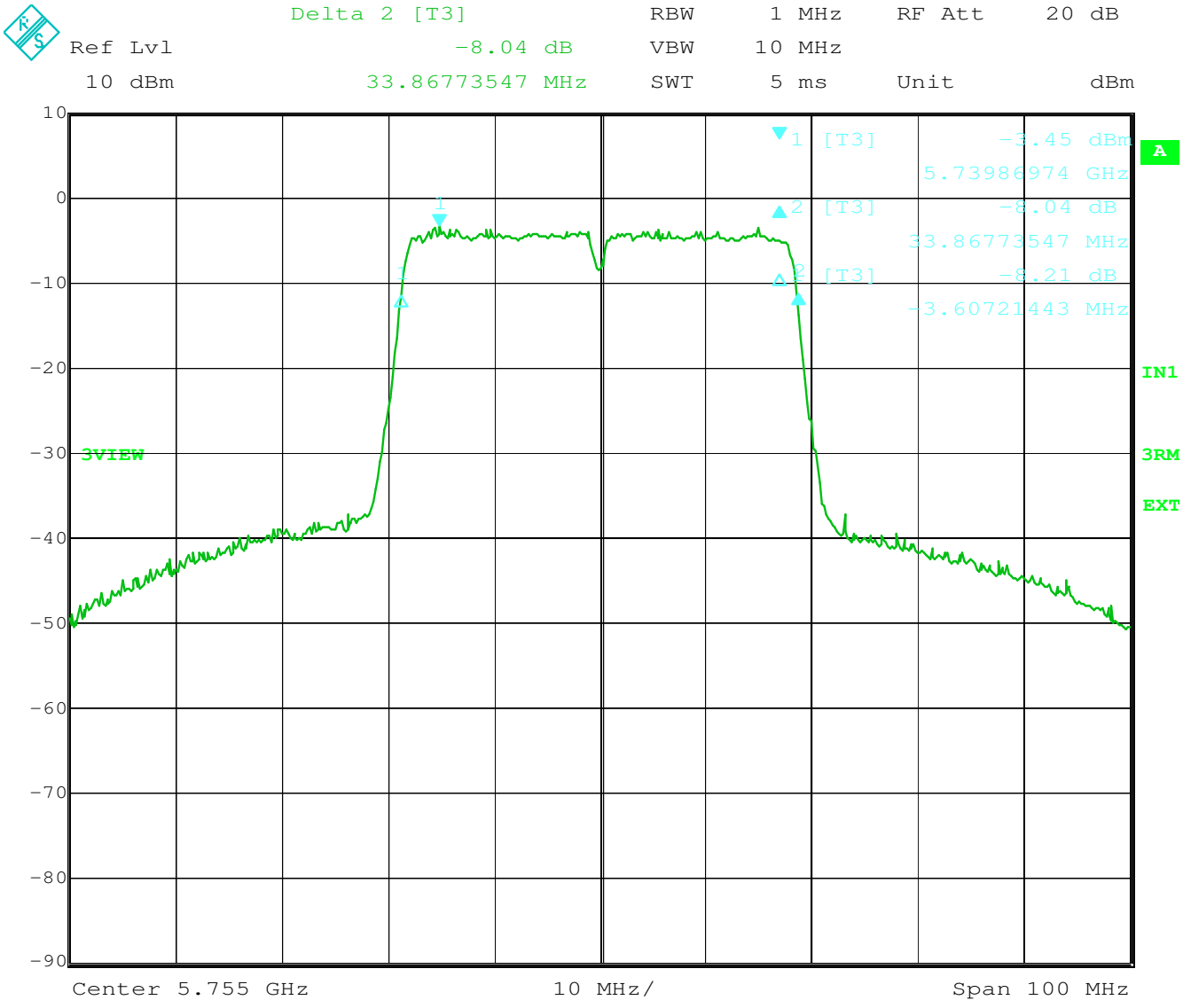
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

6dB Bandwidth **§ 15.407(e)**

Conducted Measurement

Rated output power: 7,6 mW Channel 149-153 (5755 MHz center frequency)



Date: 12.FEB.2015 16:28:38

6dB Bandwidth: 37,475 MHz

LIMIT **SUBCLAUSE 15.407(e)**

Frequency range 5725 – 5850 MHz	6 dB Bandwidth at least 500 kHz

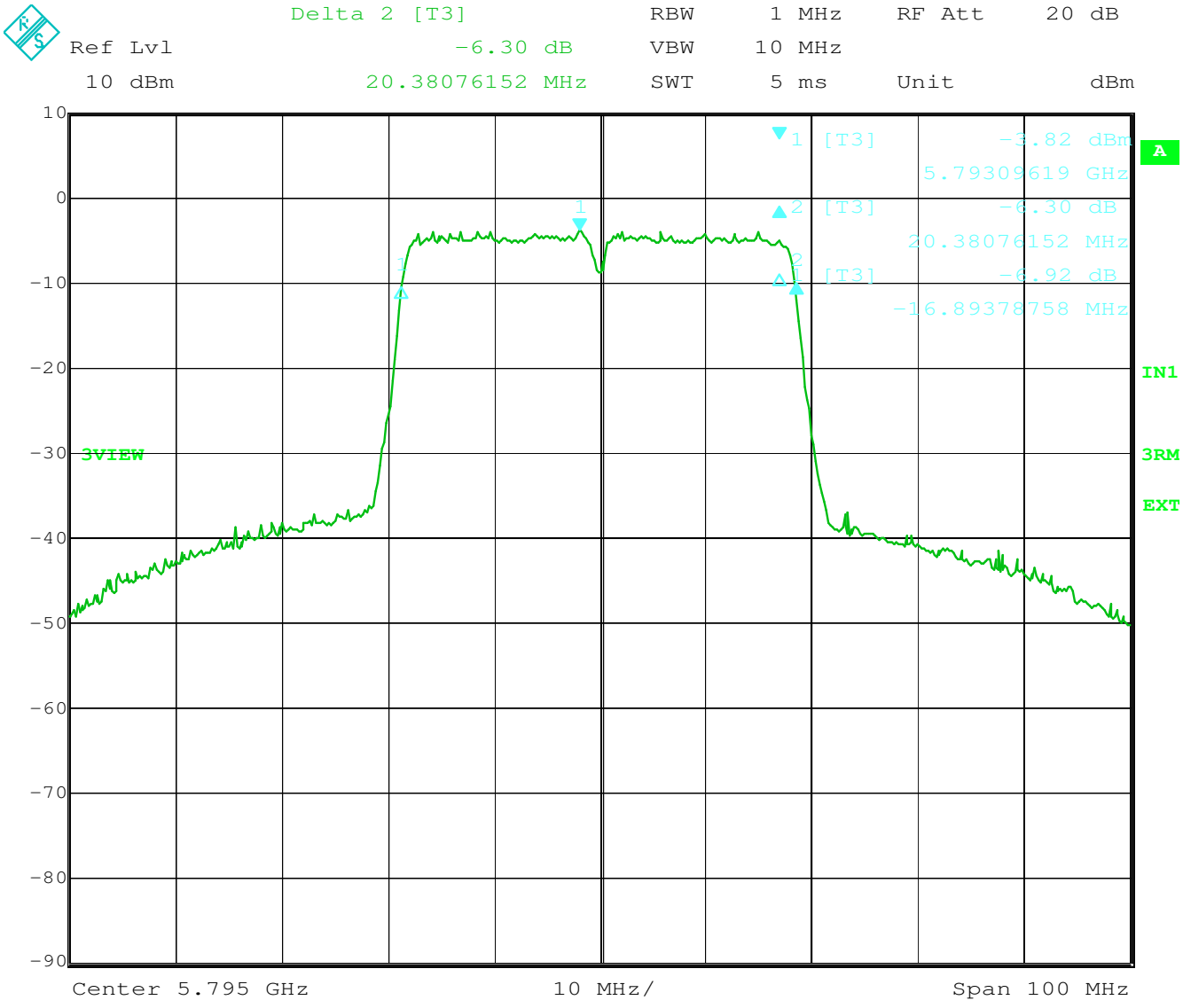
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

6dB Bandwidth **§ 15.407(e)**

Conducted Measurement

Rated output power: 7,6 mW Channel 157-161 (5795 MHz center frequency)



Date: 12.FEB.2015 16:24:46

6dB Bandwidth: 37,274 MHz

LIMIT **SUBCLAUSE 15.407(e)**

Frequency range 5725 – 5850 MHz	6 dB Bandwidth at least 500 kHz

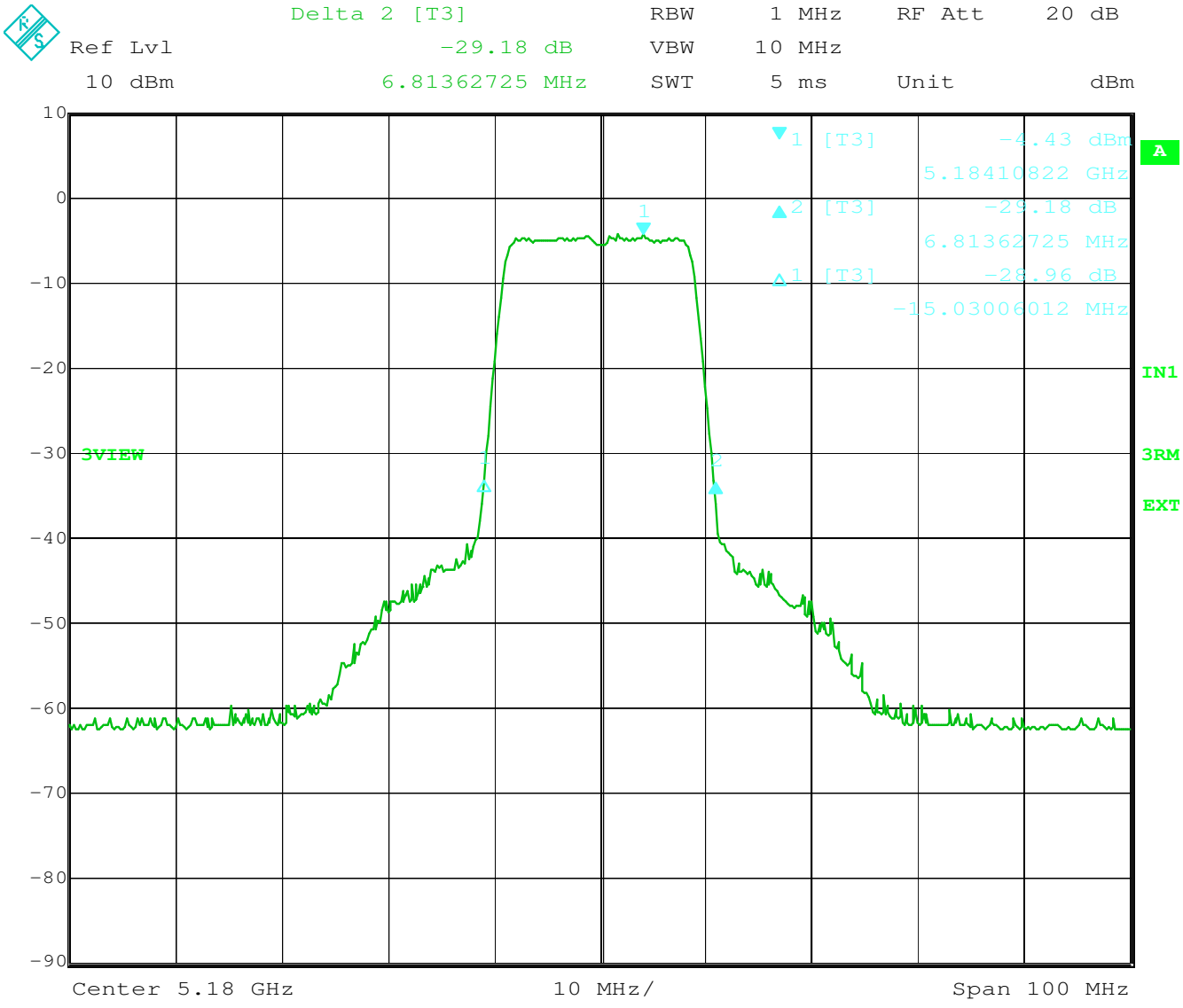
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 36 (5180 MHz center frequency)



Date: 12.FEB.2015 15:06:33

26dB Bandwidth: 21,844 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

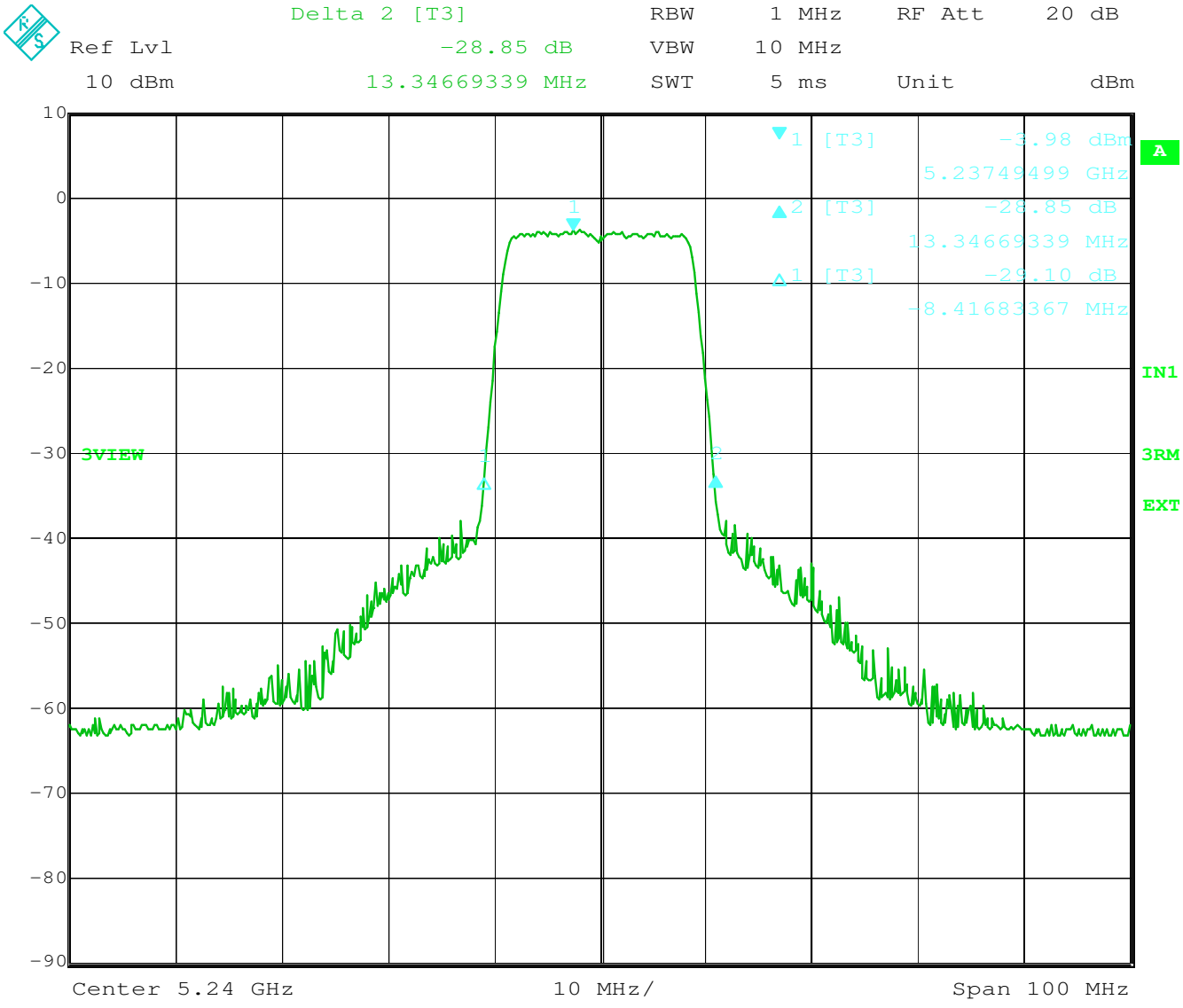
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 48 (5240 MHz center frequency)



Date: 12.FEB.2015 15:08:32

26dB Bandwidth: 21,763 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

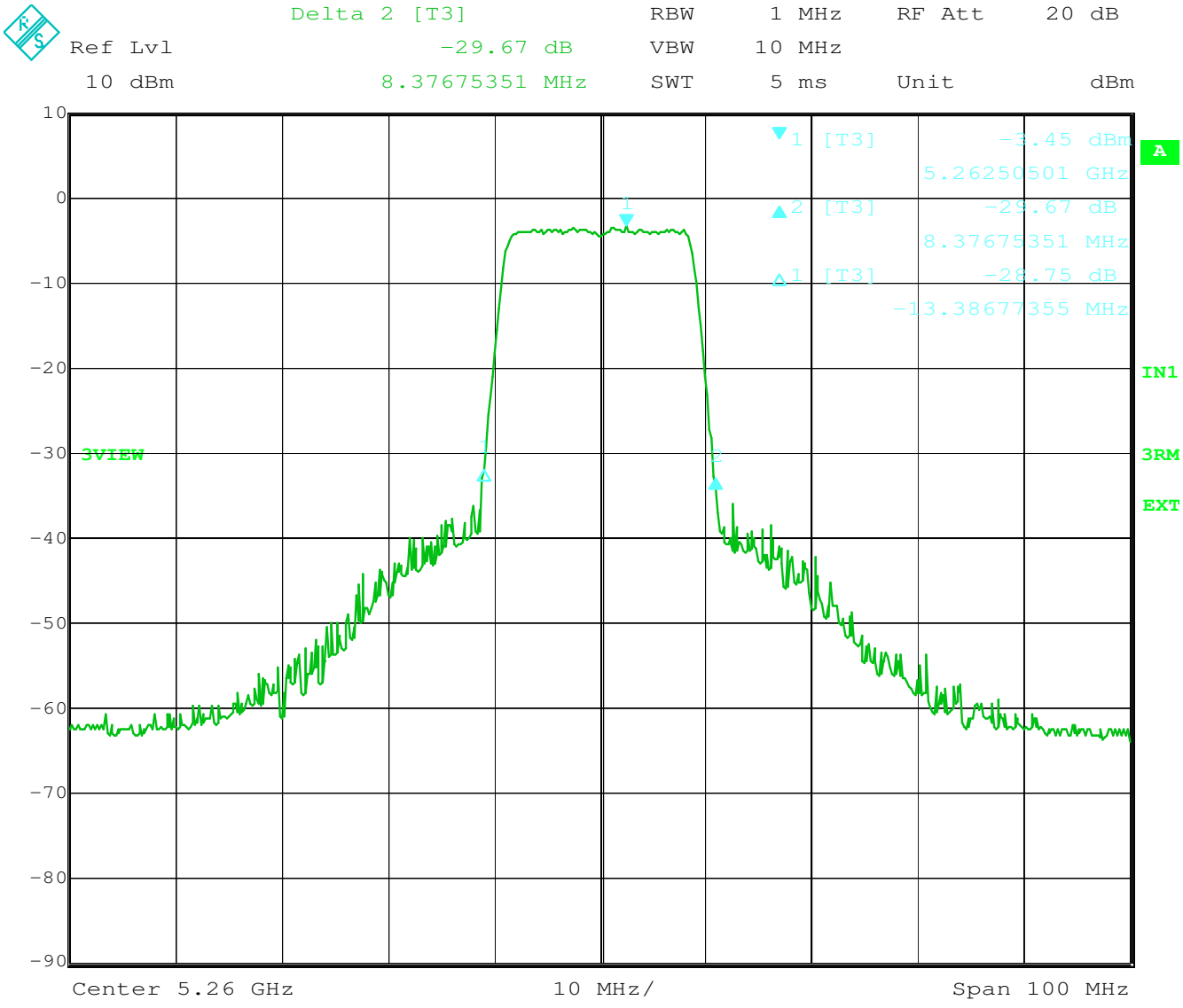
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 52 (5260 MHz center frequency)



Date: 12.FEB.2015 15:12:00

26dB Bandwidth: 21,764 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

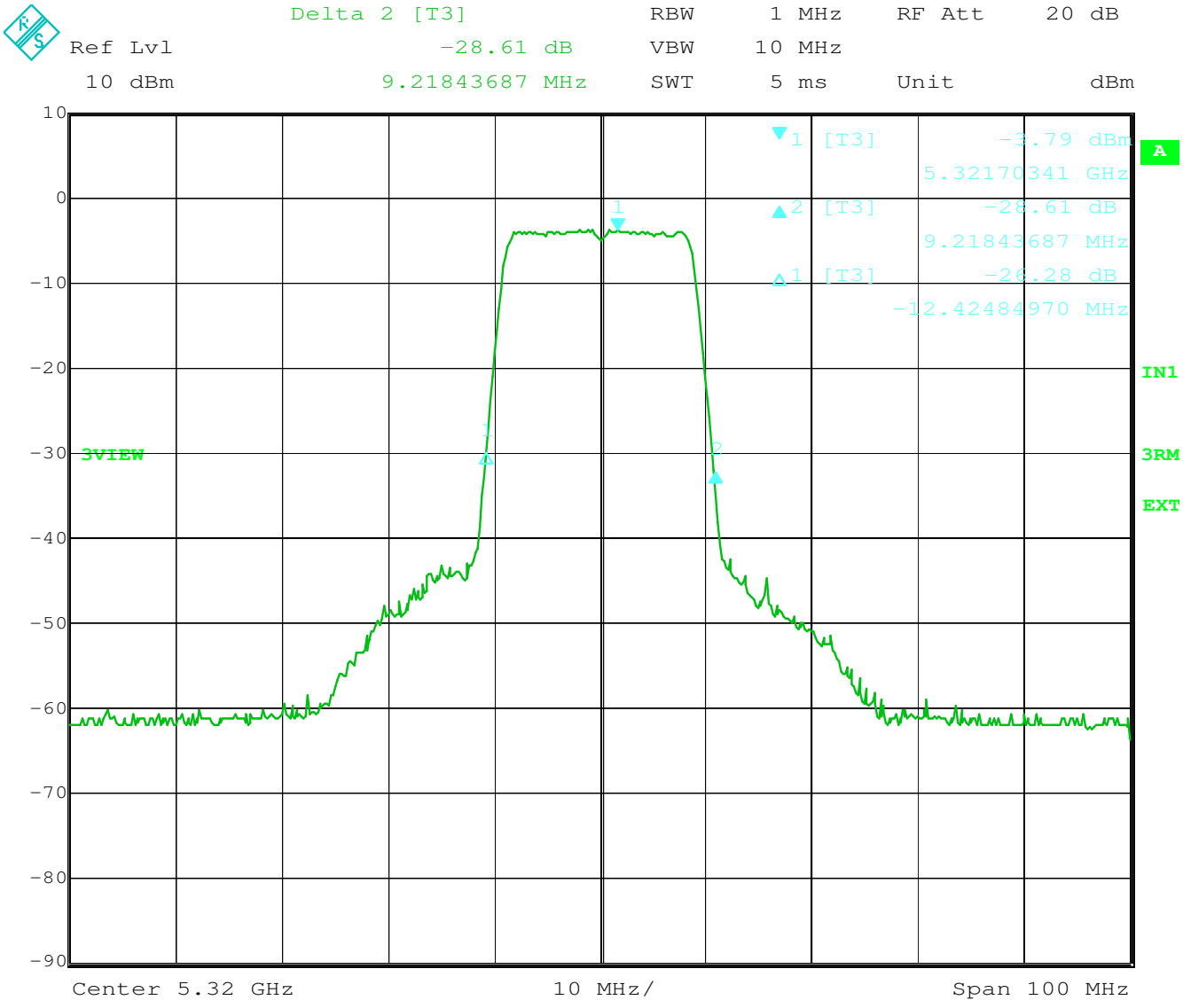
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 64 (5320 MHz center frequency)



Date: 12.FEB.2015 16:12:52

26dB Bandwidth: 21,644 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

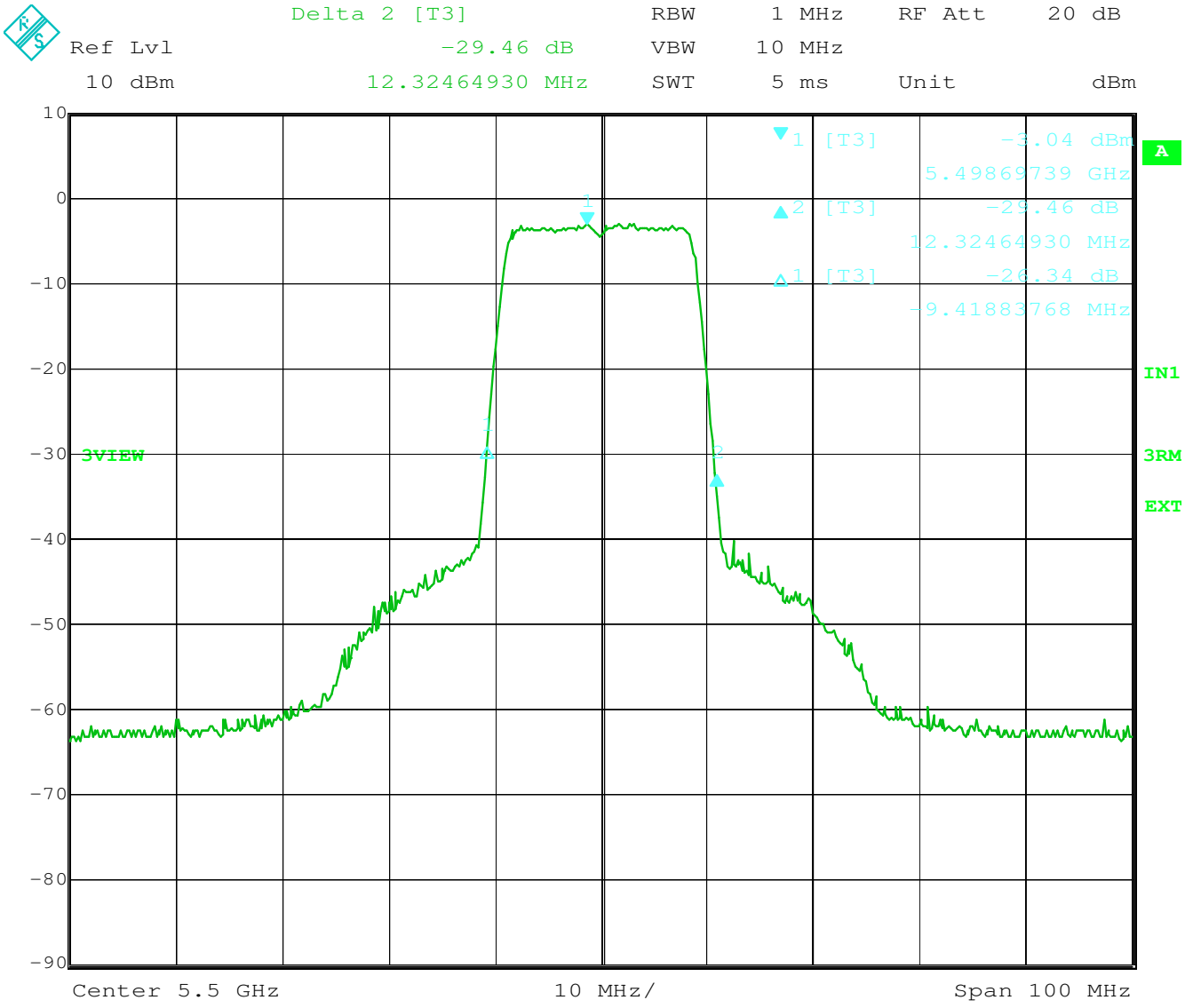
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 100 (5500 MHz center frequency)



Date: 12.FEB.2015 16:15:20

26dB Bandwidth: 21,744 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

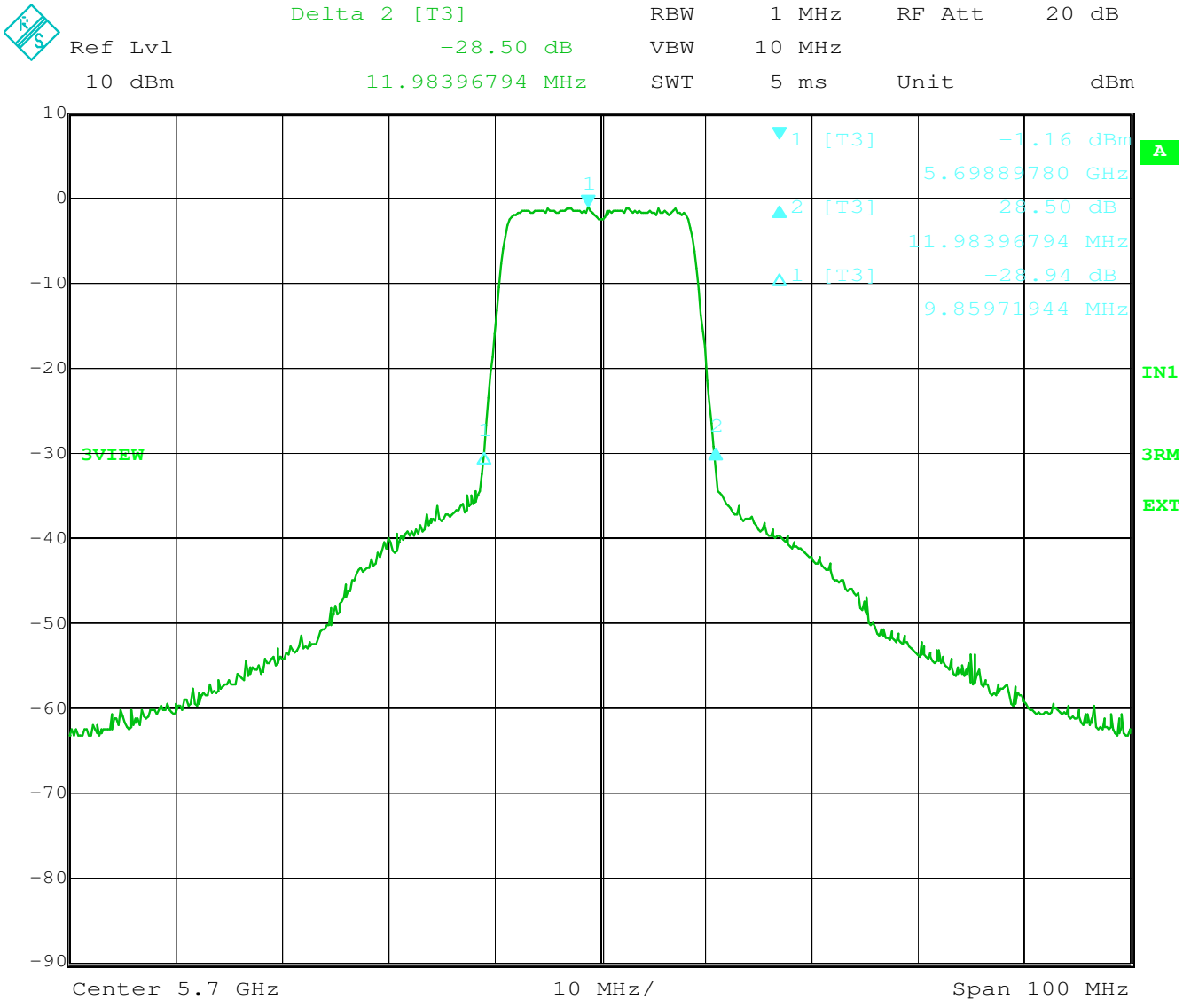
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 140 (5700 MHz center frequency)



Date: 12.FEB.2015 16:17:21

26dB Bandwidth: 21,844 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

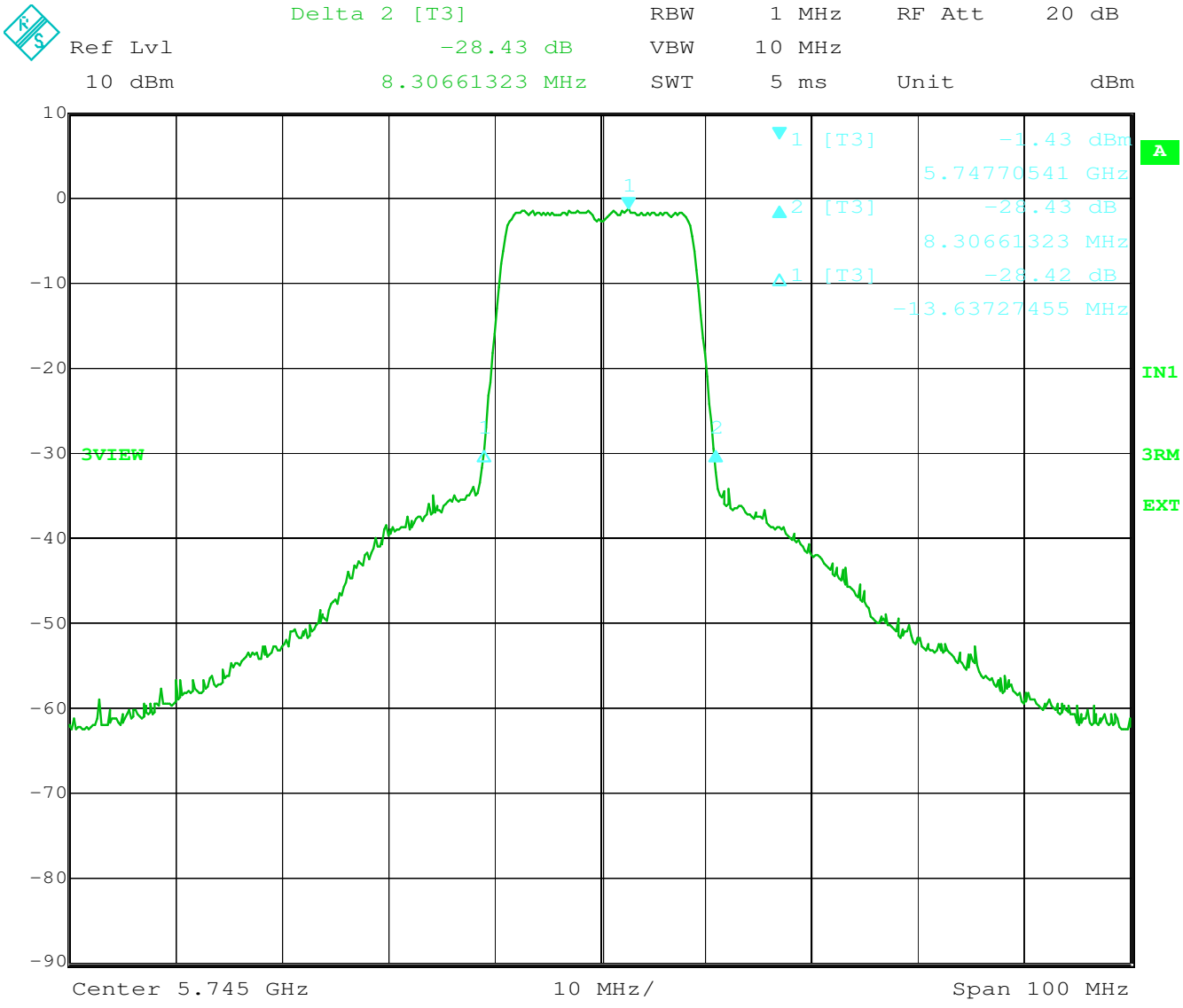
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 149 (5745 MHz center frequency)



Date: 12.FEB.2015 16:19:28

26dB Bandwidth: 21,944 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

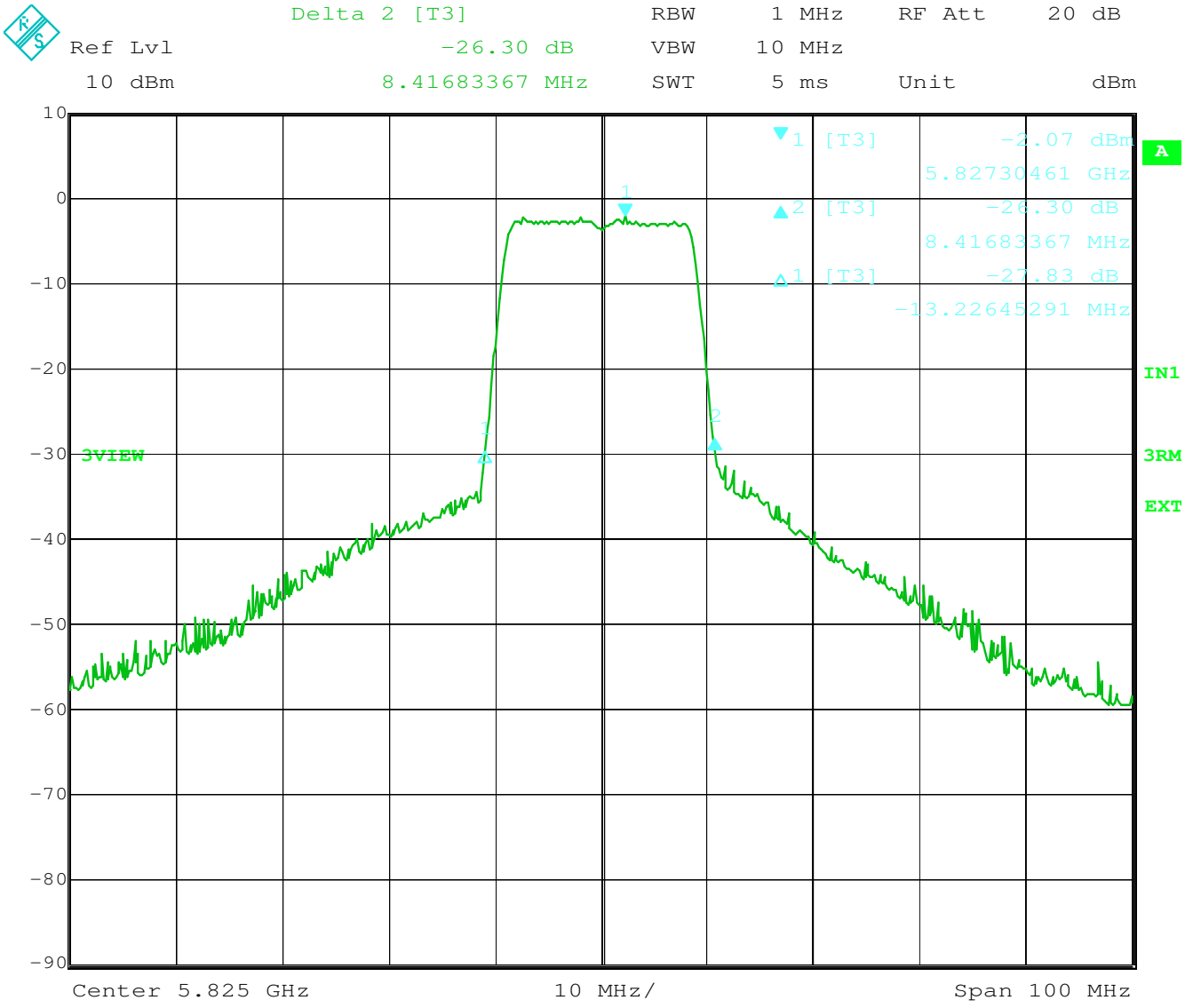
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 165 (5825 MHz center frequency)



26dB Bandwidth: 21,644 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

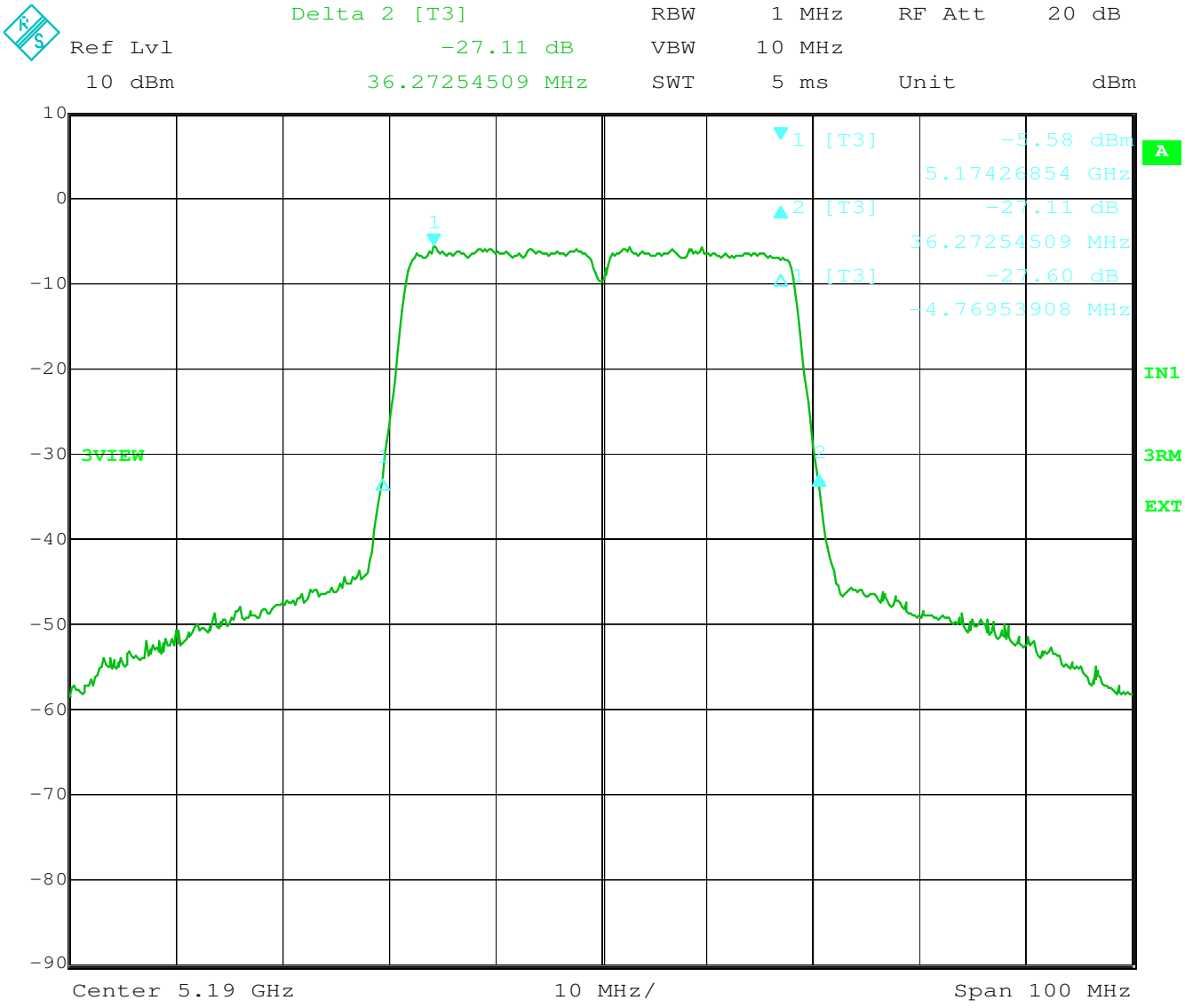
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 36-40 (5190 MHz center frequency)



Date: 12.FEB.2015 16:40:54

26dB Bandwidth: 41,042 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

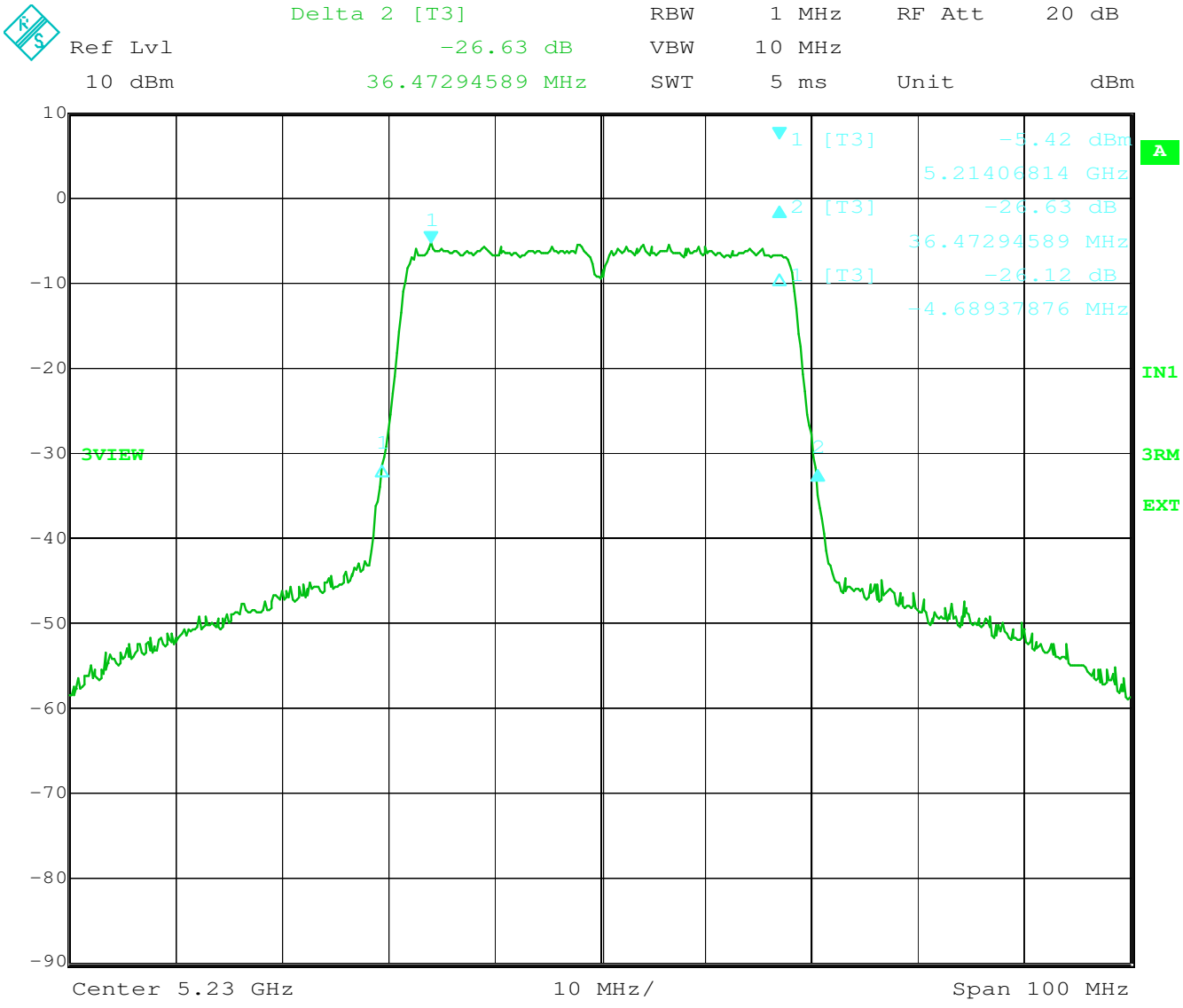
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 44-48 (5230 MHz center frequency)



Date: 12.FEB.2015 16:38:33

26dB Bandwidth: 41,162 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

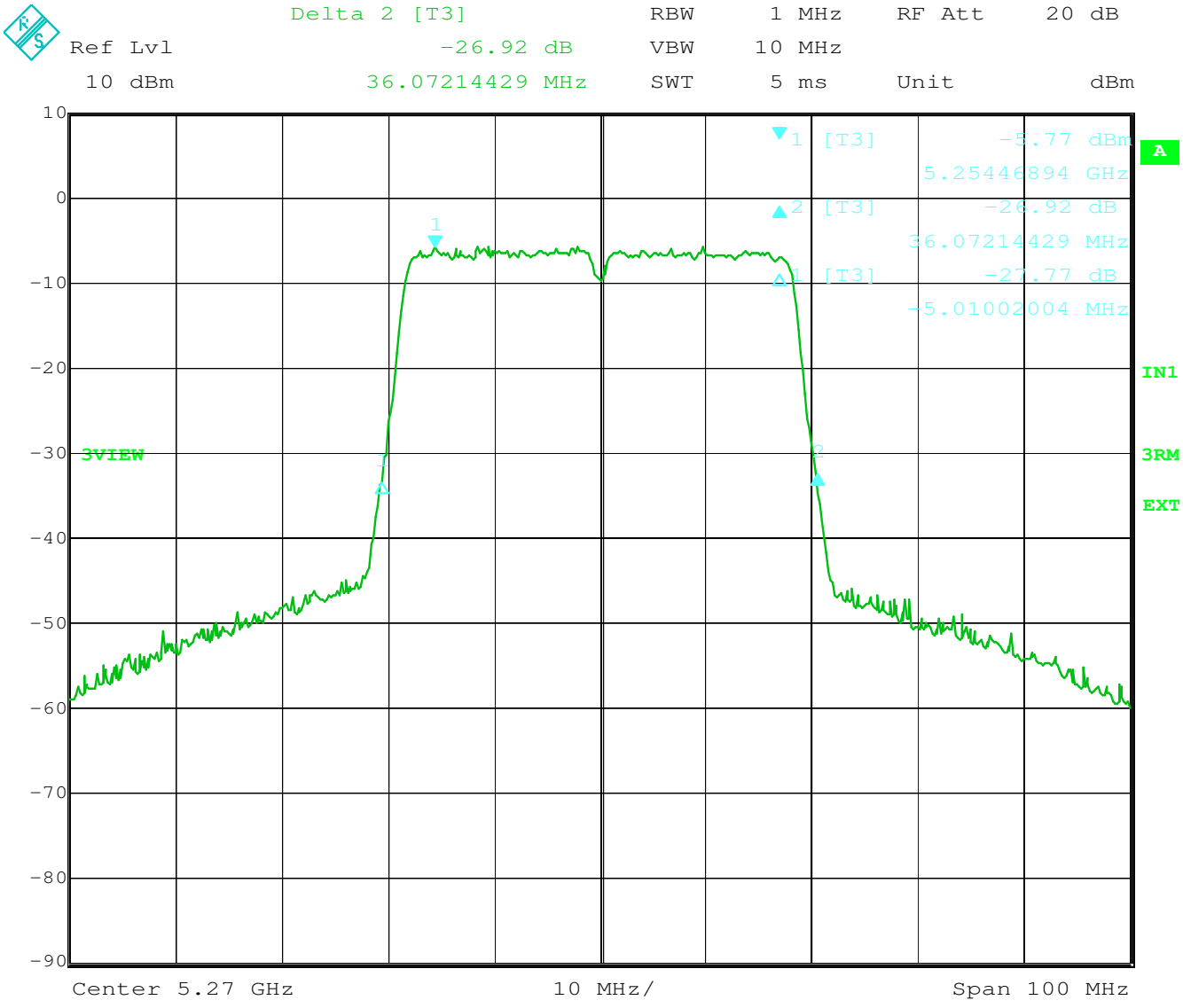
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 52-56 (5270 MHz center frequency)



Date: 12.FEB.2015 16:36:43

26dB Bandwidth: 41,082 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

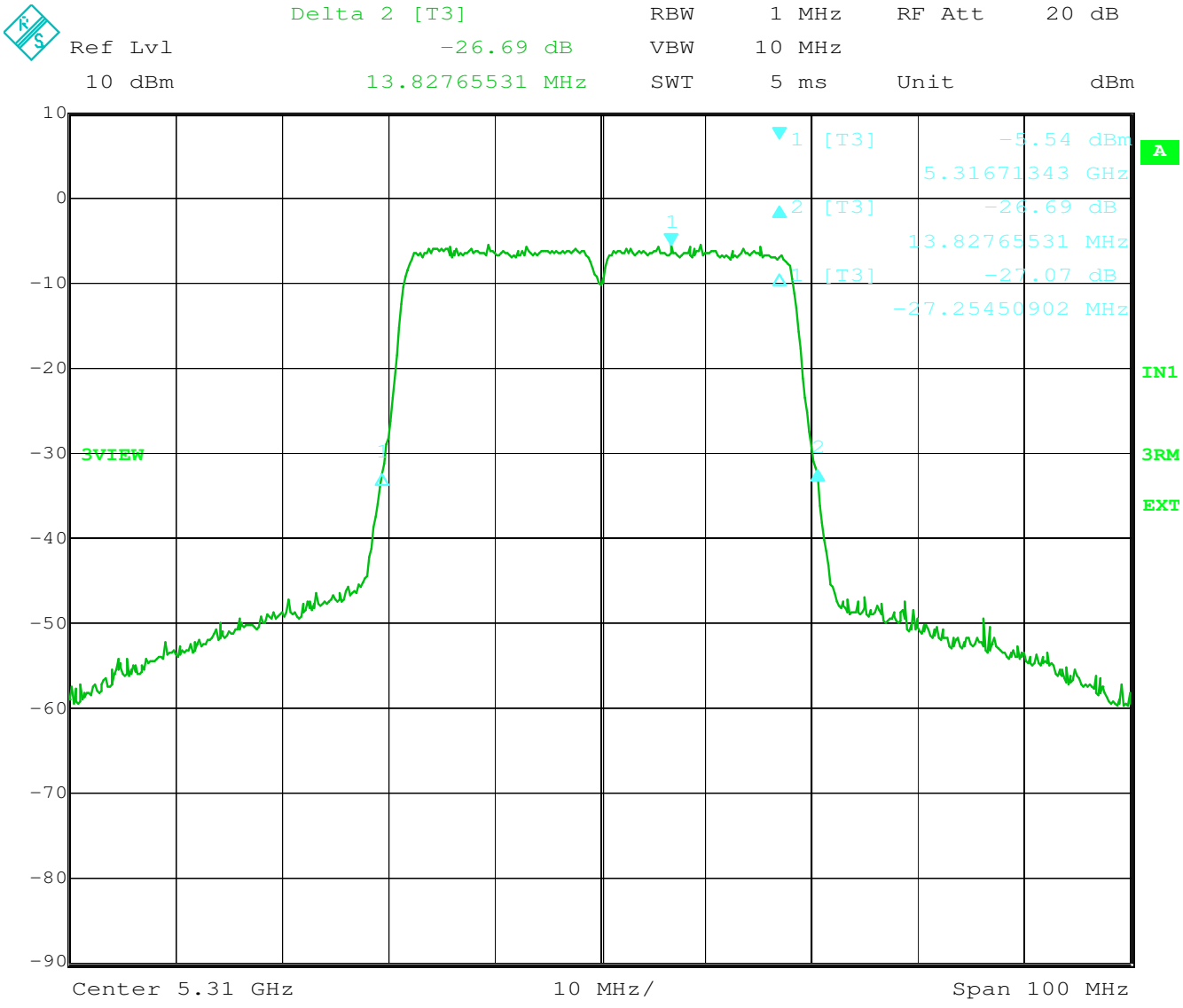
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 60-64 (5310 MHz center frequency)



Date: 12.FEB.2015 16:34:58

26dB Bandwidth: 41,082 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

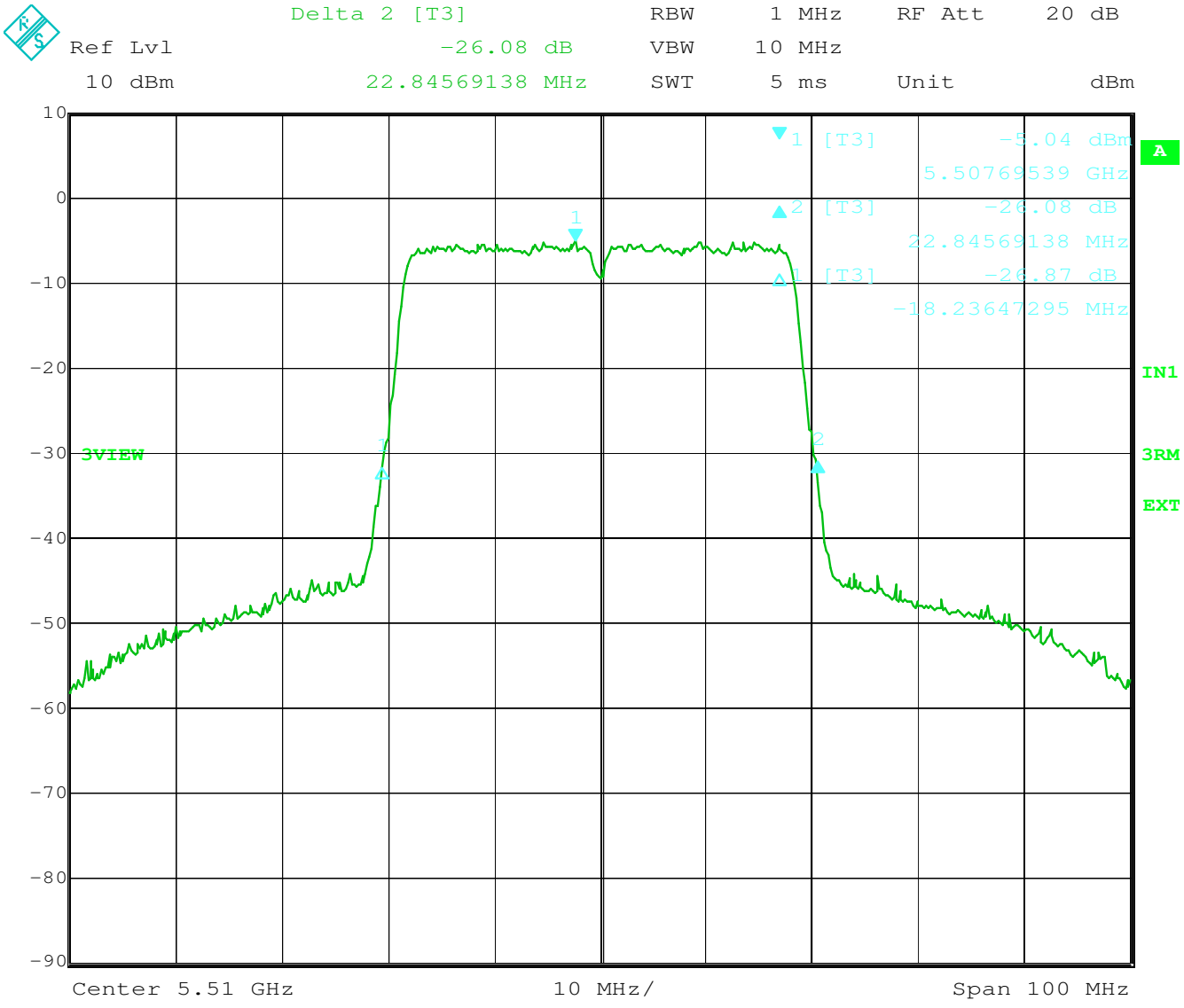
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 100-104 (5510 MHz center frequency)



Date: 12.FEB.2015 16:32:58

26dB Bandwidth: 41,082 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

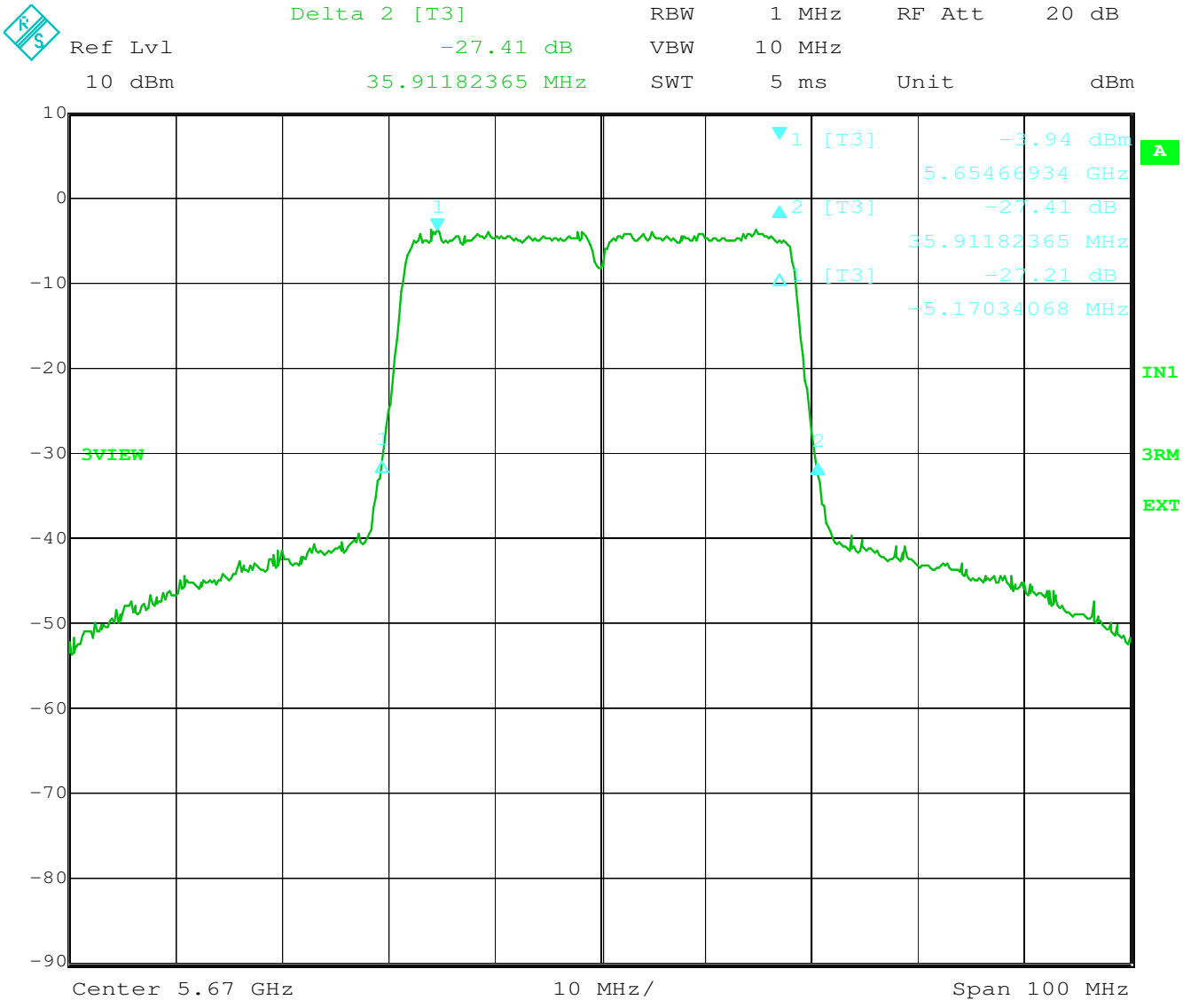
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 132-136 (5670 MHz center frequency)



Date: 12.FEB.2015 16:31:22

26dB Bandwidth: 41,082 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

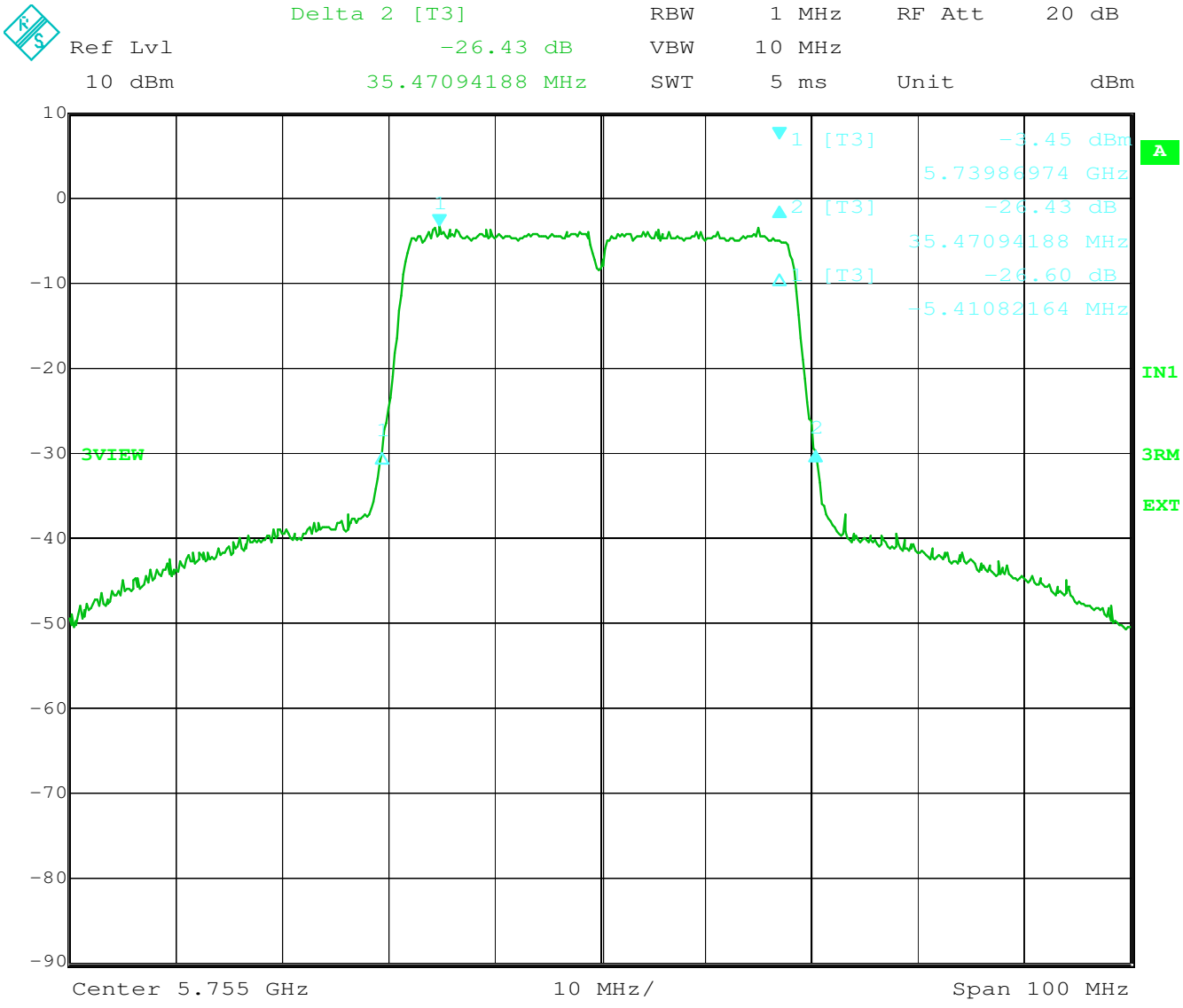
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 149-153 (5755 MHz center frequency)



26dB Bandwidth: 40,882 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

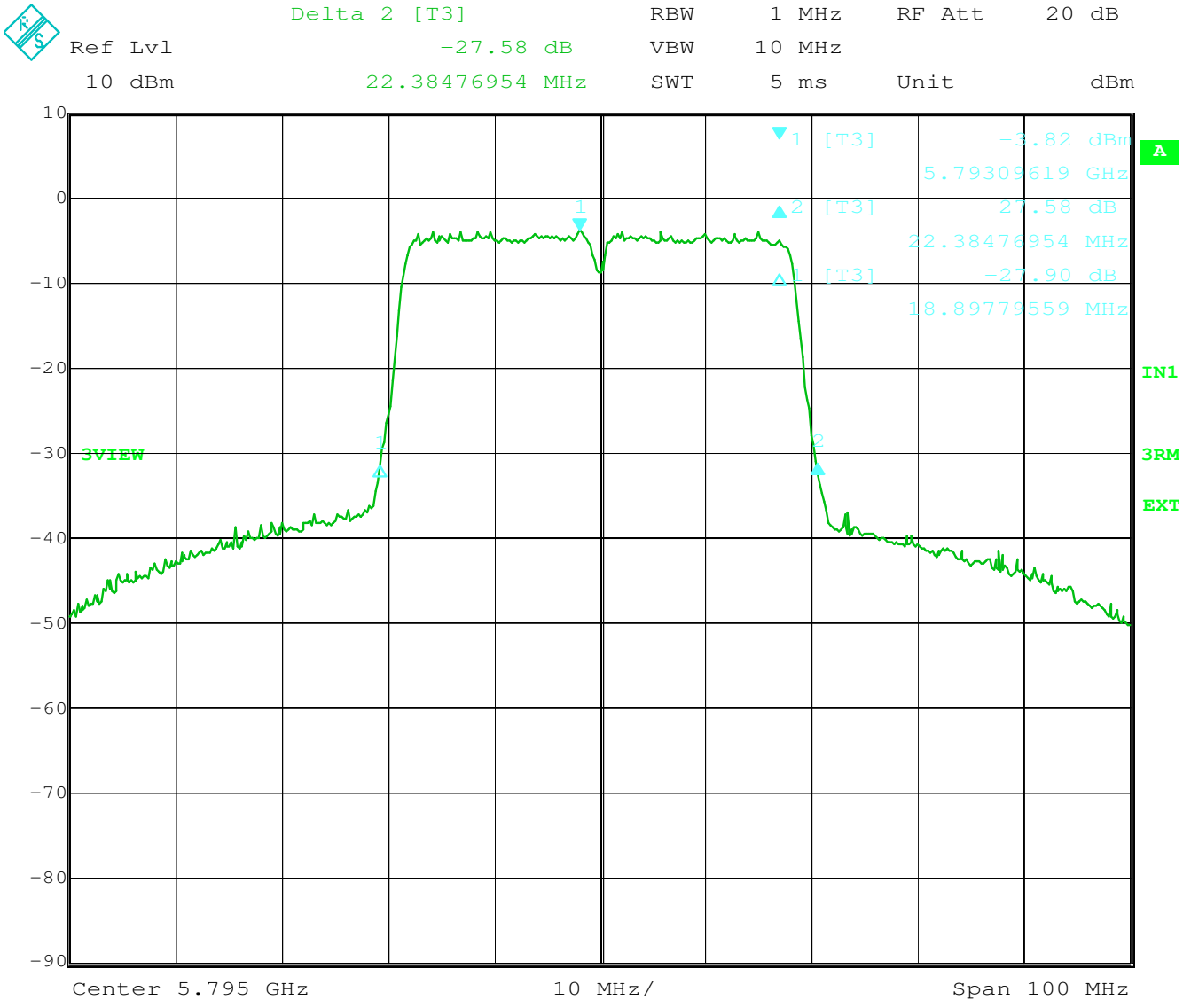
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

26dB Bandwidth **§ 15.407**

Conducted Measurement

Rated output power: 7,6 mW Channel 157-165 (5795 MHz center frequency)



Date: 12.FEB.2015 16:25:23

26dB Bandwidth: 41,283 MHz

LIMIT **SUBCLAUSE 15.407**

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	26 dB Bandwidth fully inside permitted frequency ranges

Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Conducted Output Power **§ 15.407(a)(1)(iv)**

Conducted Measurement

Rated output power: 7,6 mW

Test conditions		Transmitter power (mW)	
		5180 (5190) MHz	5240 (5230) MHz
T_{nom} (24)°C	OFDM – 20 MHz	4,68	4,68
	OFDM – 40 MHz	4,57	4,57
Measurement uncertainty		± 0,75 dB	

LIMIT **SUBCLAUSE 15.407(a)(1)(iv)**

For mobile and portable client devices in the 5.15-5.25 GHz band	250 mW provided the maximum antenna gain does not exceed 6 dBi

Test Equipment used: NT-204; NT-229; NT233/1a

Ambient temperature: 24°C Relative humidity: 25%

Maximum Conducted Output Power **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW

Test conditions		Transmitter power (mW)	
		5260 (5270) MHz	5320 (5310) MHz
T_{nom} (24)°C	OFDM – 20 MHz	5,25	4,79
	OFDM – 40 MHz	5,01	4,79
Measurement uncertainty		± 0,75 dB	

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz

Test Equipment used: NT-204; NT-229; NT233/1a

Ambient temperature: 24°C Relative humidity: 25%

Maximum Conducted Output Power **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW

Test conditions		Transmitter power (mW)	
		5500 (5510) MHz	5700 (5670) MHz
T_{nom} (24)°C	OFDM – 20 MHz	5,50	7,59
	OFDM – 40 MHz	5,50	6,92
Measurement uncertainty		± 0,75 dB	

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz

Test Equipment used: NT-204; NT-229; NT233/1a

Ambient temperature: 24°C Relative humidity: 25%

Maximum Conducted Output Power **§ 15.407(a)(3)**

Conducted Measurement

Rated output power: 7,6 mW

Test conditions		Transmitter power (mW)	
		5745 (5755) MHz	5825 (5795) MHz
T_{nom} (24)°C	OFDM – 20 MHz	7,24	6,17
	OFDM – 40 MHz	6,92	6,31
Measurement uncertainty		± 0,75 dB	

LIMIT **SUBCLAUSE 15.407(a)(3)**

For the band 5.725-5.85 GHz	1 W provided the maximum antenna gain does not exceed 6 dBi

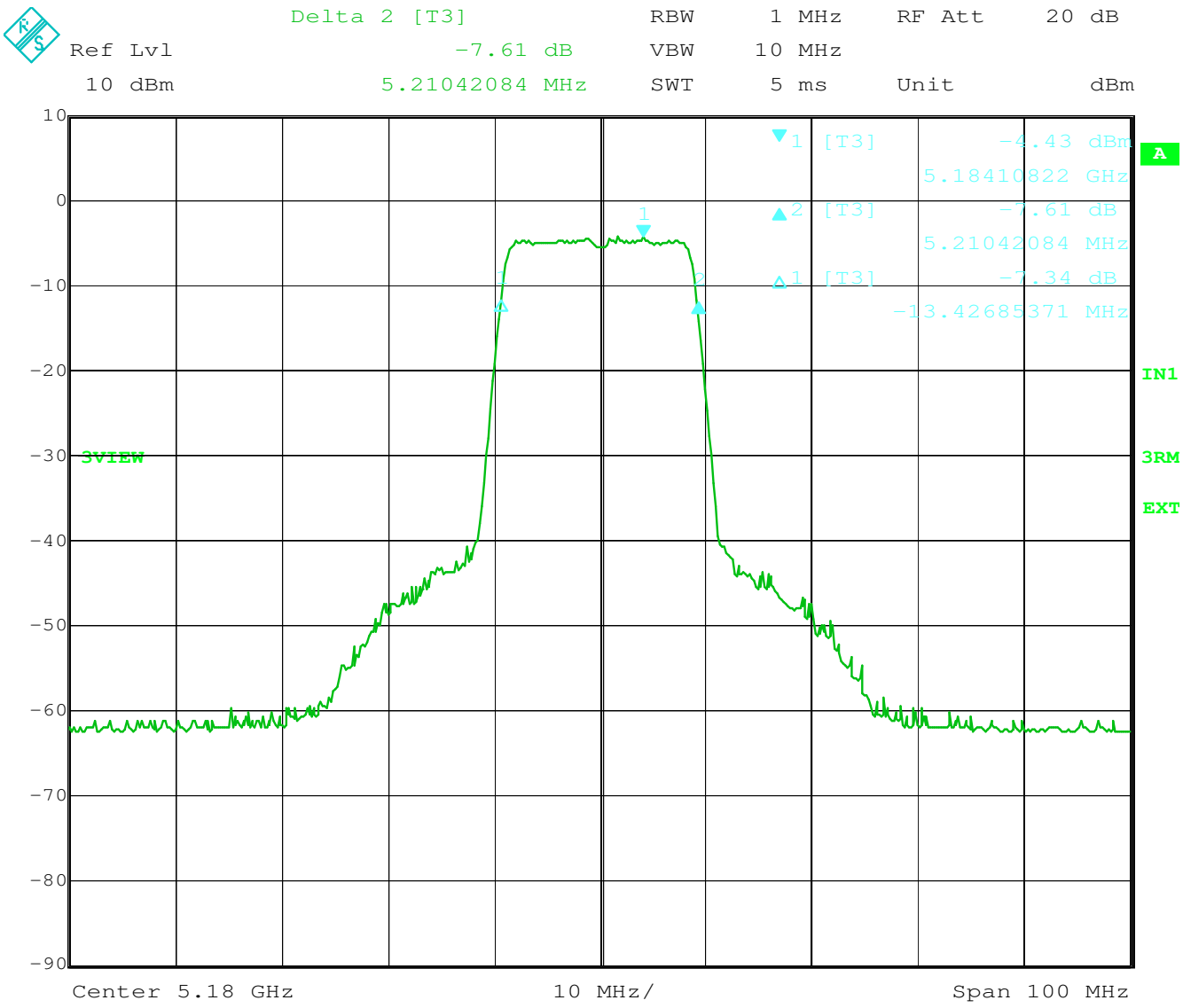
Test Equipment used: NT-204; NT-229; NT233/1a

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(1)(iv)**

Conducted Measurement

Rated output power: 7,6 mW Channel 36 (5180 MHz center frequency)



Date: 12.FEB.2015 15:05:41

Power Spectral density: -4,43 dBm @ 5184,108 MHz

LIMIT **SUBCLAUSE 15.407(a)(1)(iv)**

For mobile and portable client devices in the 5.15-5.25 GHz band	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

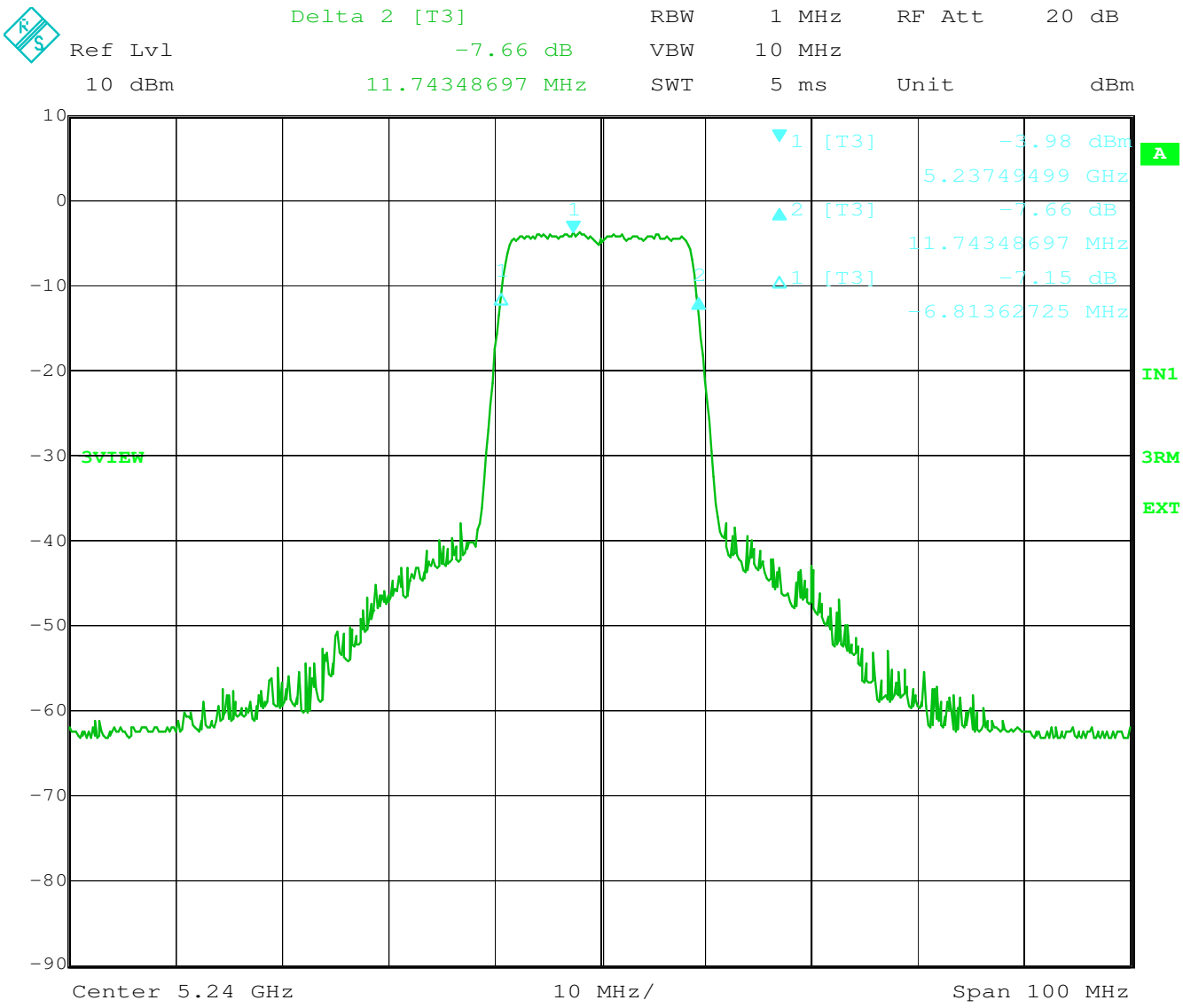
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(1)(iv)**

Conducted Measurement

Rated output power: 7,6 mW Channel 48 (5240 MHz center frequency)



Date: 12.FEB.2015 15:08:09

Power Spectral density: -3,98 dBm @ 5237,495 MHz

LIMIT **SUBCLAUSE 15.407(a)(1)(iv)**

For mobile and portable client devices in the 5.15-5.25 GHz band	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

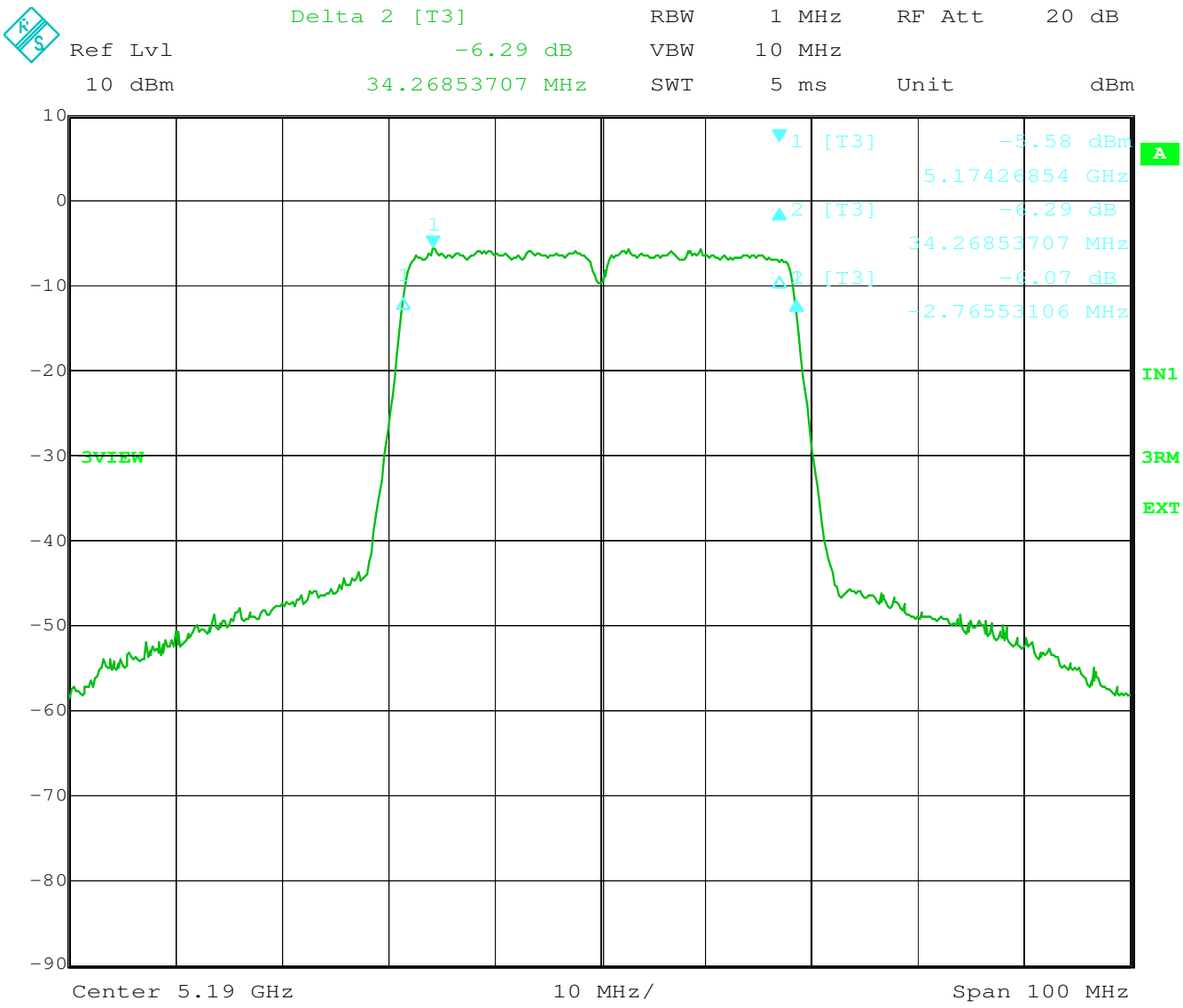
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(1)(iv)**

Conducted Measurement

Rated output power: 7,6 mW Channel 36-40 (5190 MHz center frequency)



Date: 12.FEB.2015 16:40:32

Power Spectral density: -5,58 dBm @ 5174,269 MHz

LIMIT **SUBCLAUSE 15.407(a)(1)(iv)**

For mobile and portable client devices in the 5.15-5.25 GHz band	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

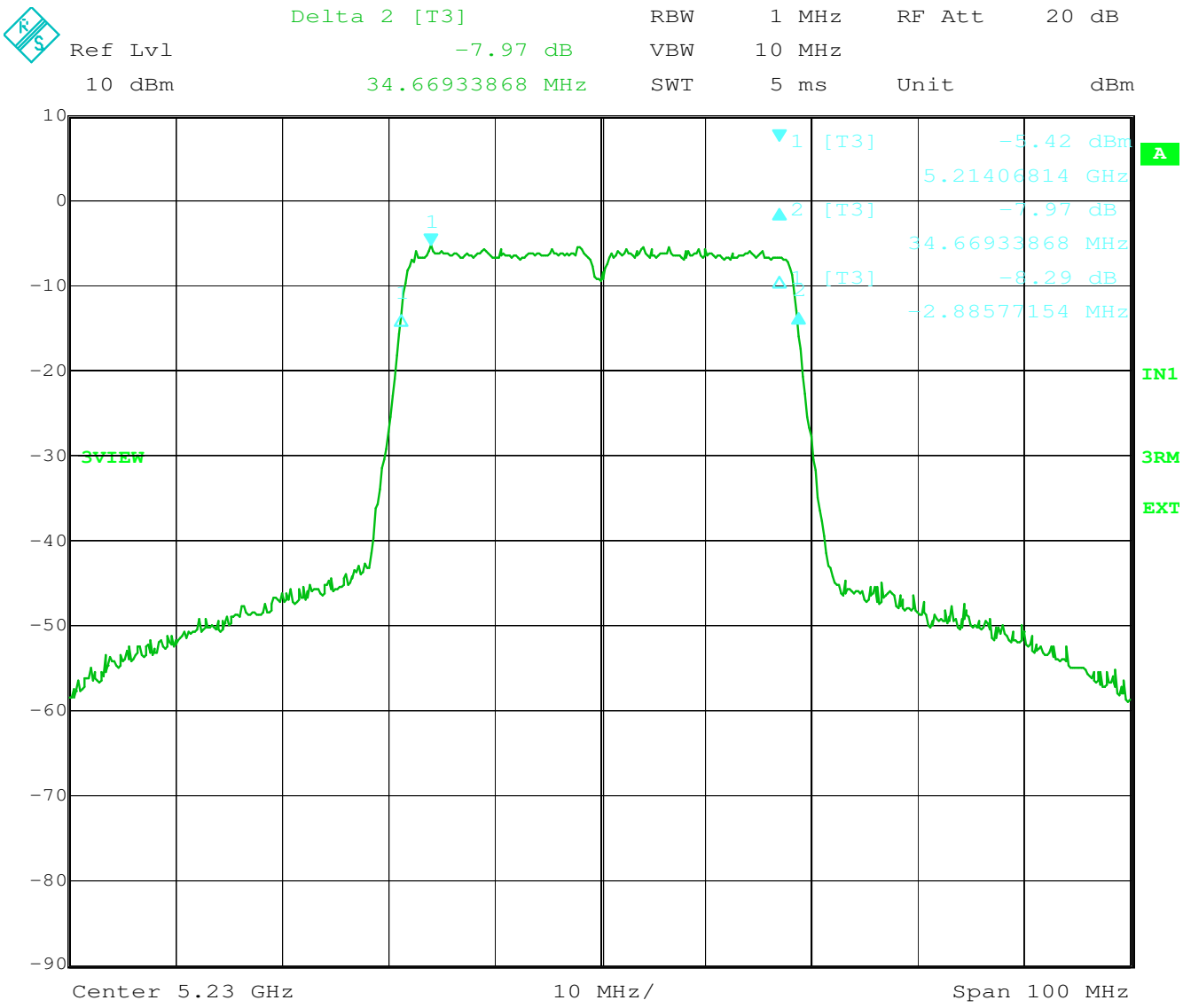
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(1)(iv)**

Conducted Measurement

Rated output power: 7,6 mW Channel 44-48 (5230 MHz center frequency)



Power Spectral density: -5,42 dBm @ 5214,068 MHz

LIMIT **SUBCLAUSE 15.407(a)(1)(iv)**

For mobile and portable client devices in the 5.15-5.25 GHz band	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

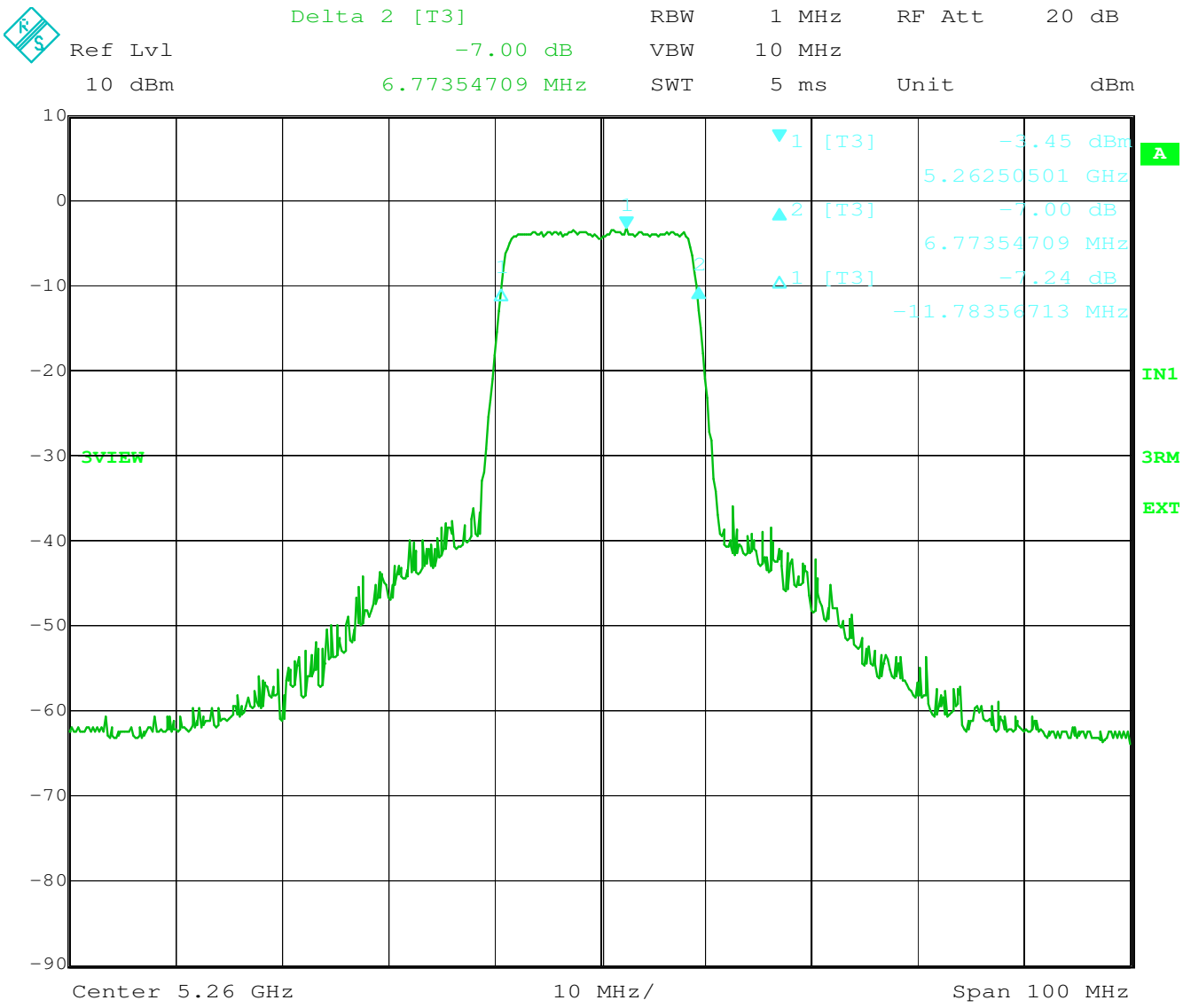
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 52 (5260 MHz center frequency)



Date: 12.FEB.2015 15:10:19

Power Spectral density: -3,45 dBm @ 5262,505 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

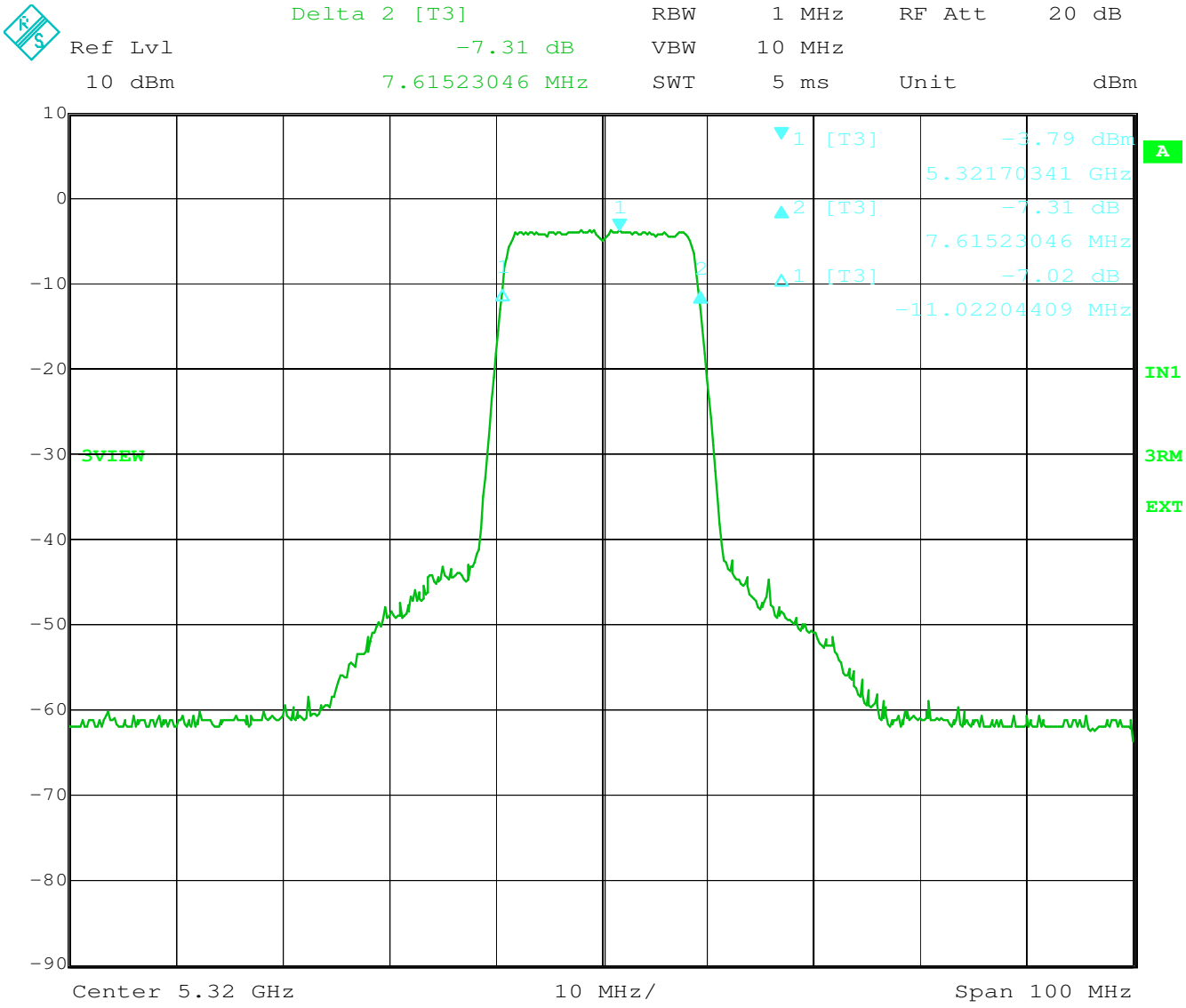
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 64 (5320 MHz center frequency)



Date: 12.FEB.2015 16:12:26

Power Spectral density: -3,79 dBm @ 5321,703 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

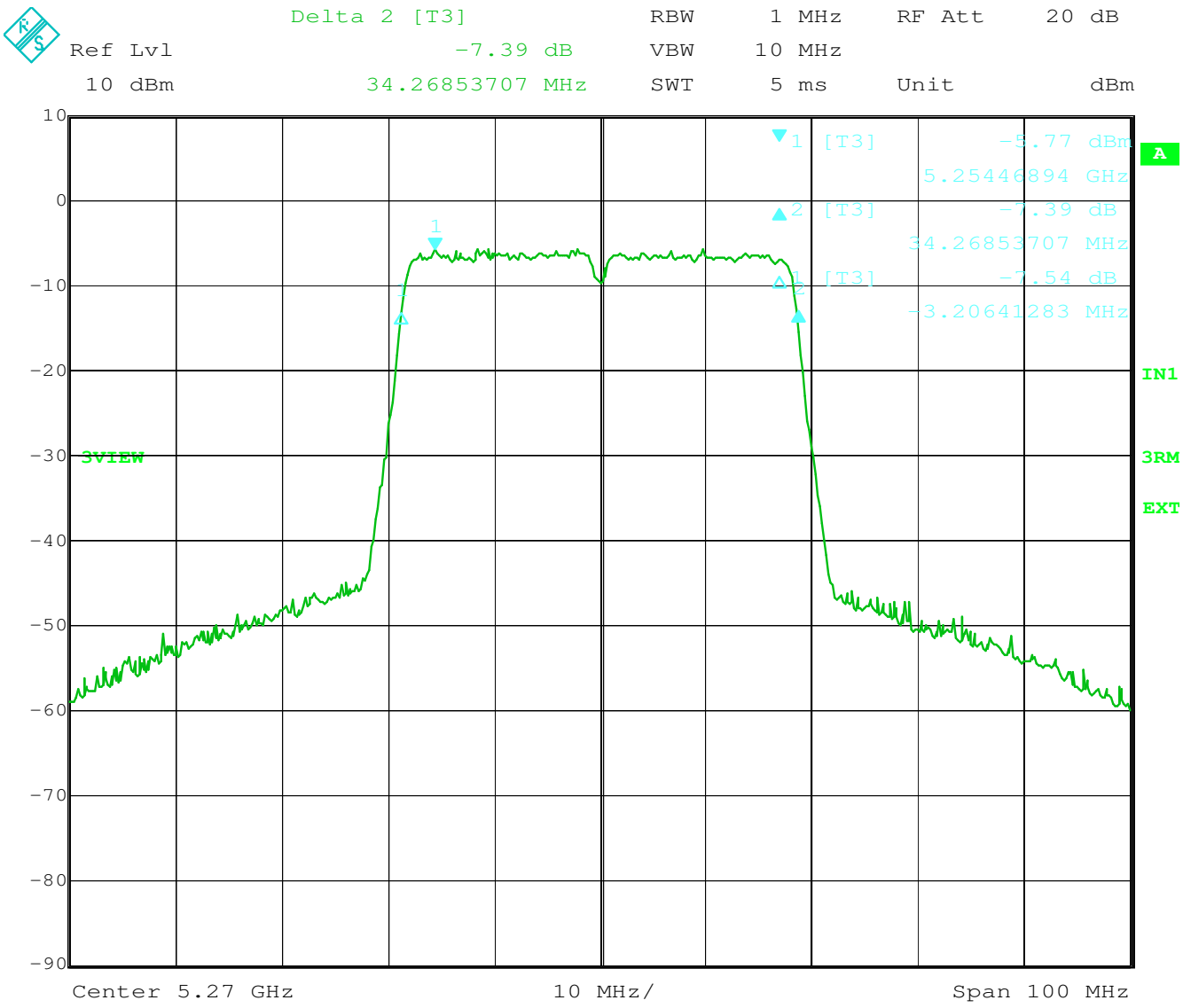
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 52-56 (5270 MHz center frequency)



Power Spectral density: -5,77 dBm @ 5254,469 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

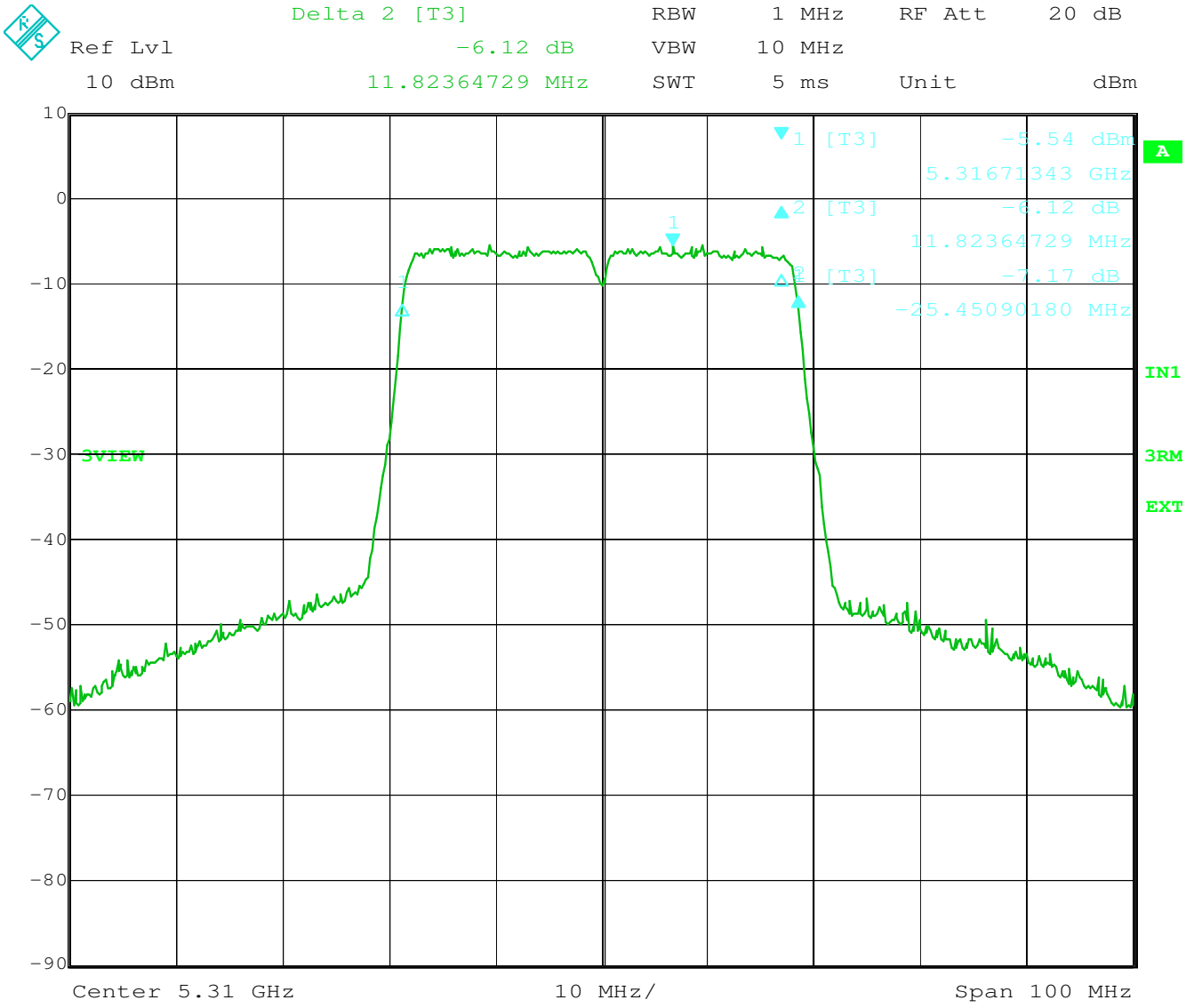
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 60-64 (5310 MHz center frequency)



Power Spectral density: -5-54 dBm @ 5316,713 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

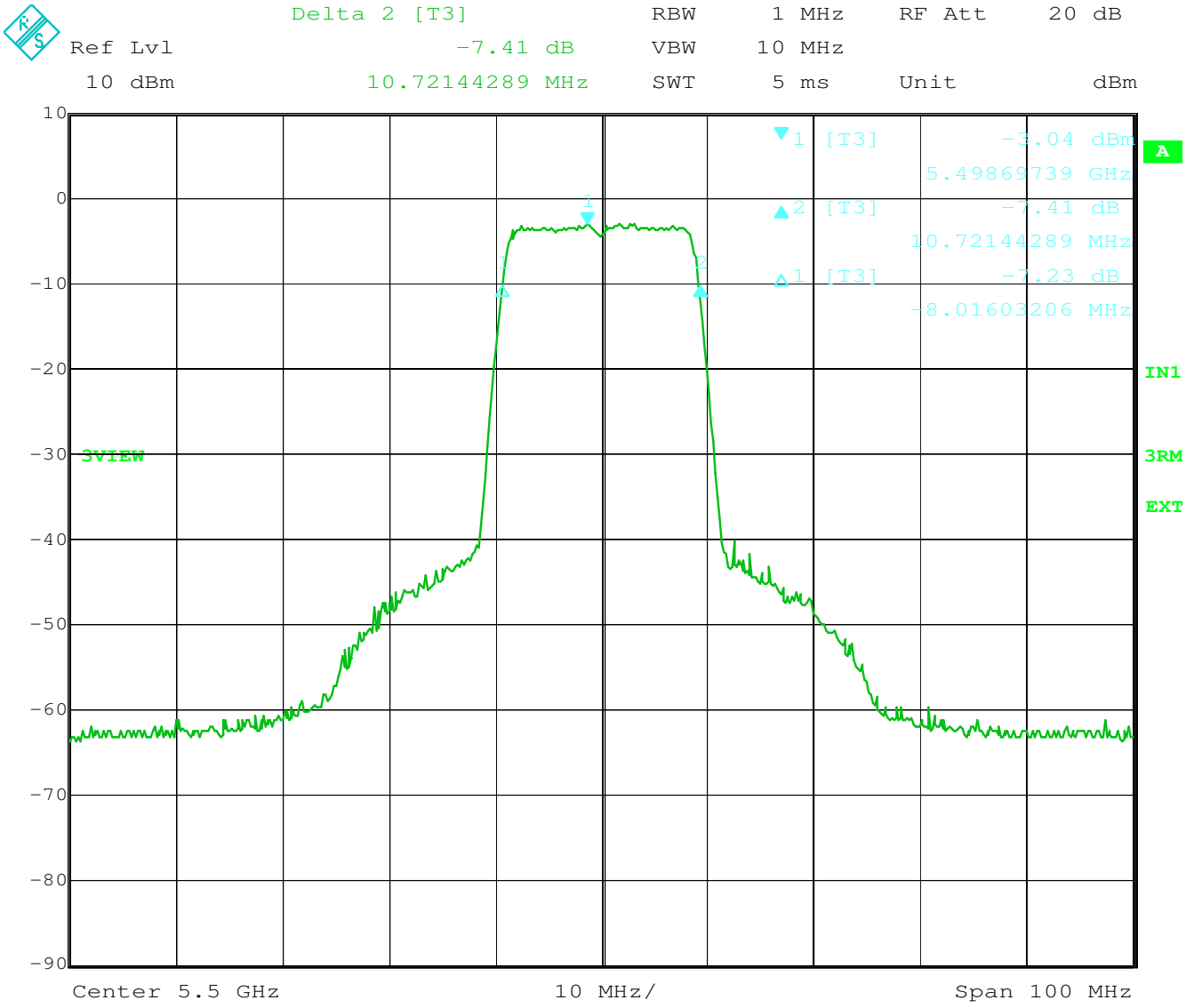
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 100 (5500 MHz center frequency)



Date: 12.FEB.2015 16:14:49

Power Spectral density: -3,04 dBm @ 5498,697 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

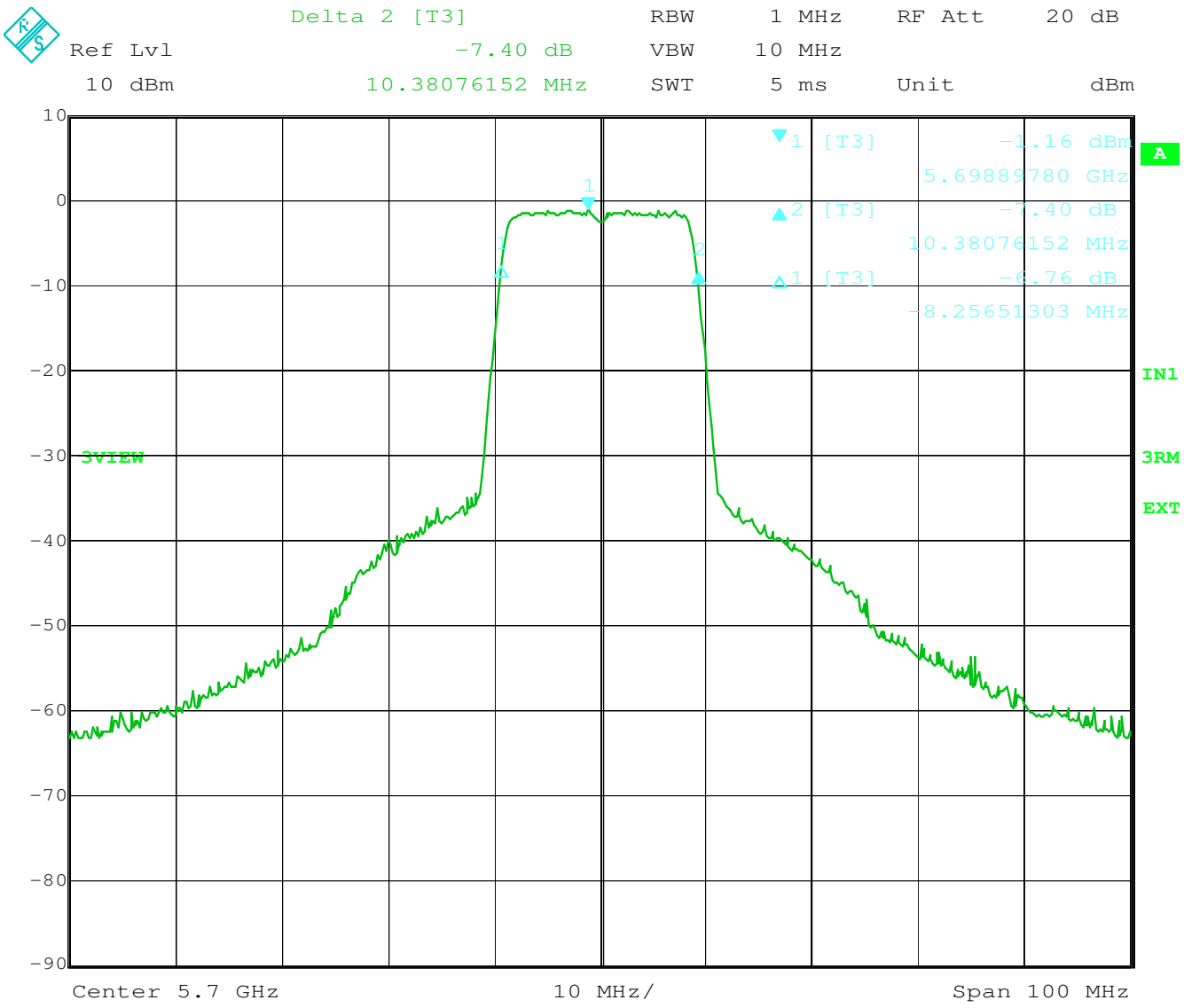
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 140 (5700 MHz center frequency)



Date: 12.FEB.2015 16:16:47

Power Spectral density: -1,16 dBm @ 5698,897 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

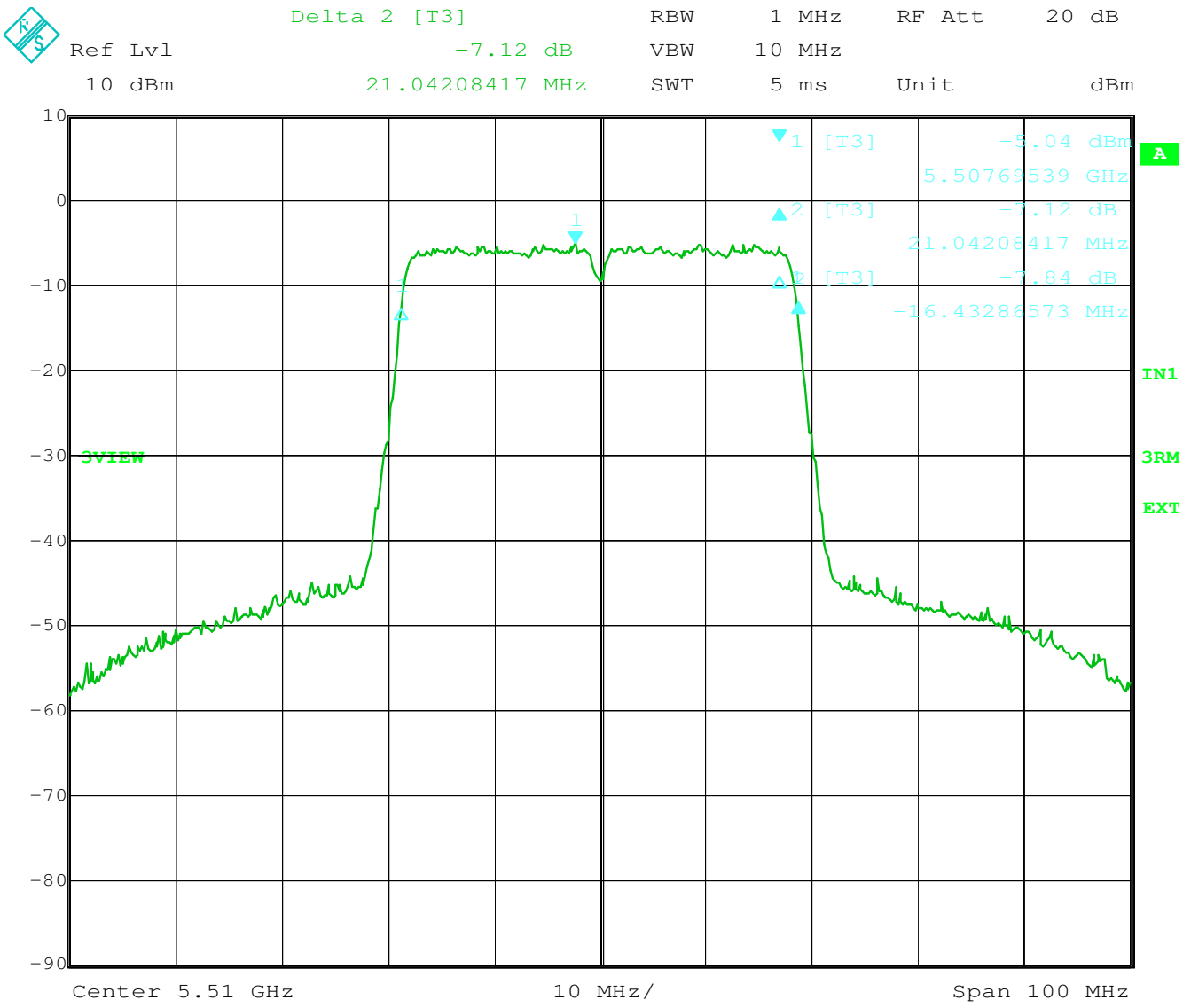
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 100-104 (5510 MHz center frequency)



Date: 12.FEB.2015 16:32:38

Power Spectral density: -5,04 dBm @ 5507,695 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

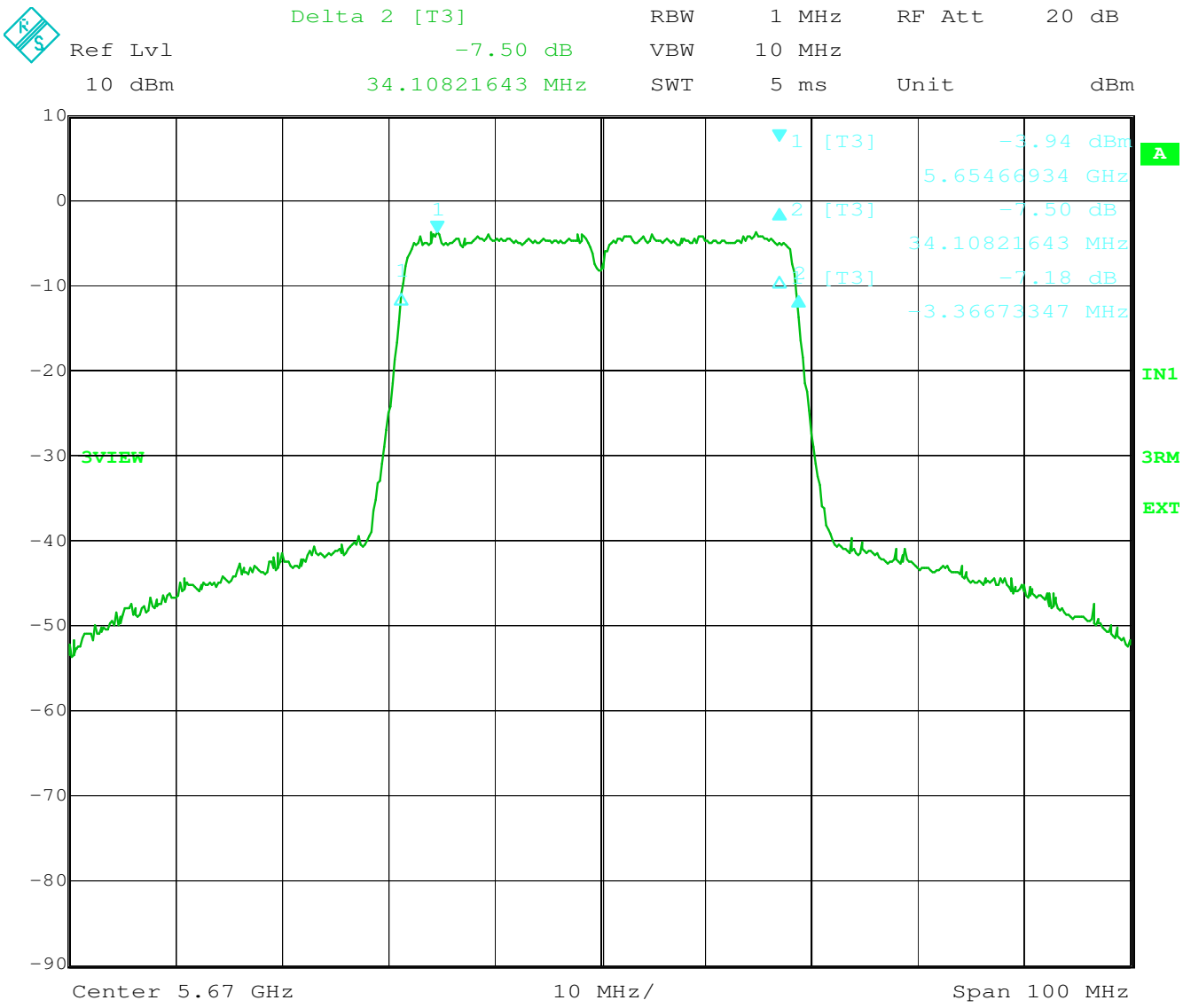
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(2)**

Conducted Measurement

Rated output power: 7,6 mW Channel 132-136 (5670 MHz center frequency)



Power Spectral density: -3,94 dBm @ 5654,669 MHz

LIMIT **SUBCLAUSE 15.407(a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands	the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

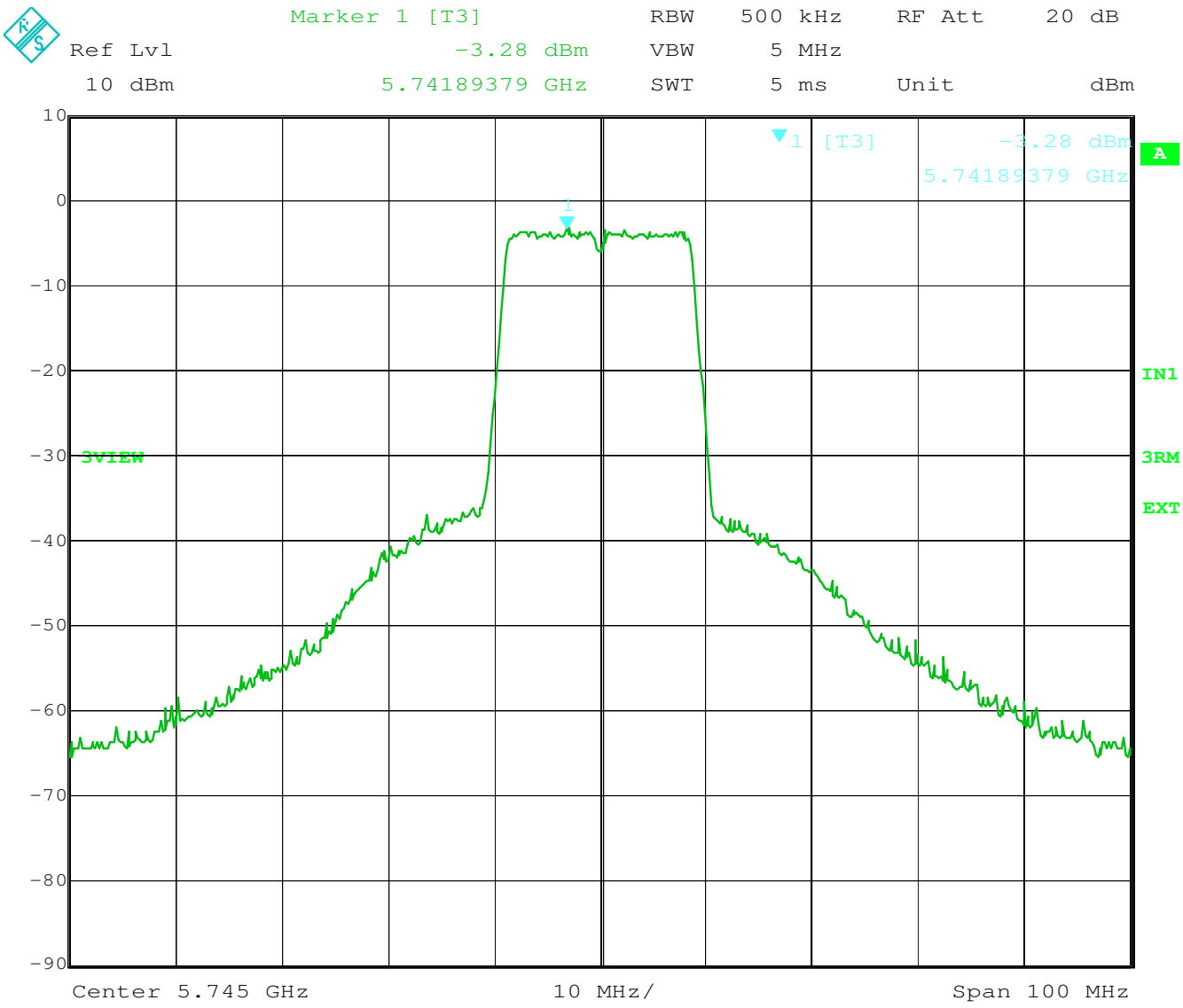
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(3)**

Conducted Measurement

Rated output power: 7,6 mW Channel 149 (5745 MHz center frequency)



Date: 12.FEB.2015 16:20:22

Power Spectral density: -3,28 dBm @ 5741,894 MHz

LIMIT **SUBCLAUSE 15.407(a)(3)**

For the band 5.725-5.85 GHz	the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

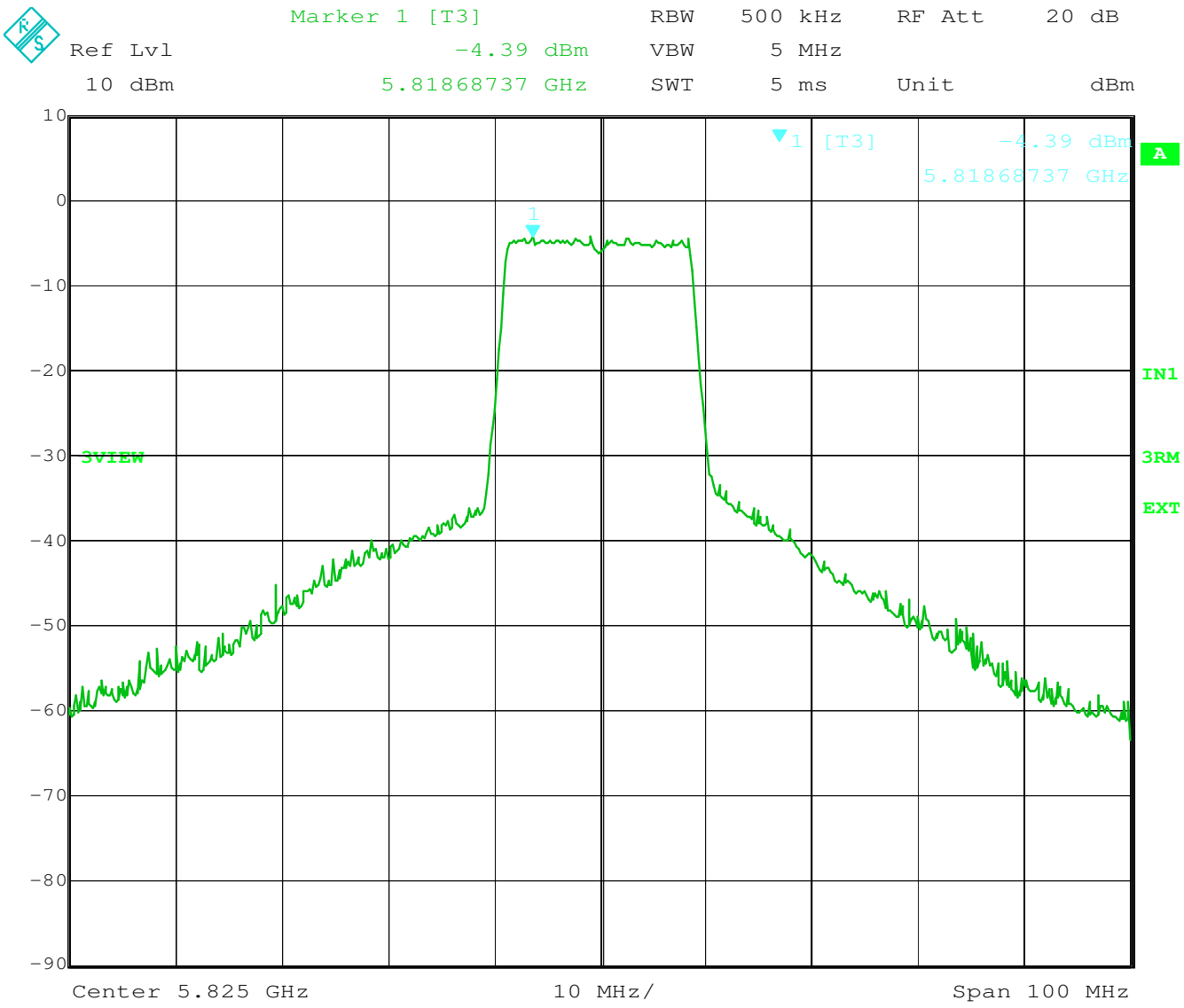
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(3)**

Conducted Measurement

Rated output power: 7,6 mW Channel 165 (5825 MHz center frequency)



Date: 12.FEB.2015 16:22:30

Power Spectral density: -4,39 dBm @ 5818,687 MHz

LIMIT **SUBCLAUSE 15.407(a)(3)**

For the band 5.725-5.85 GHz	the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

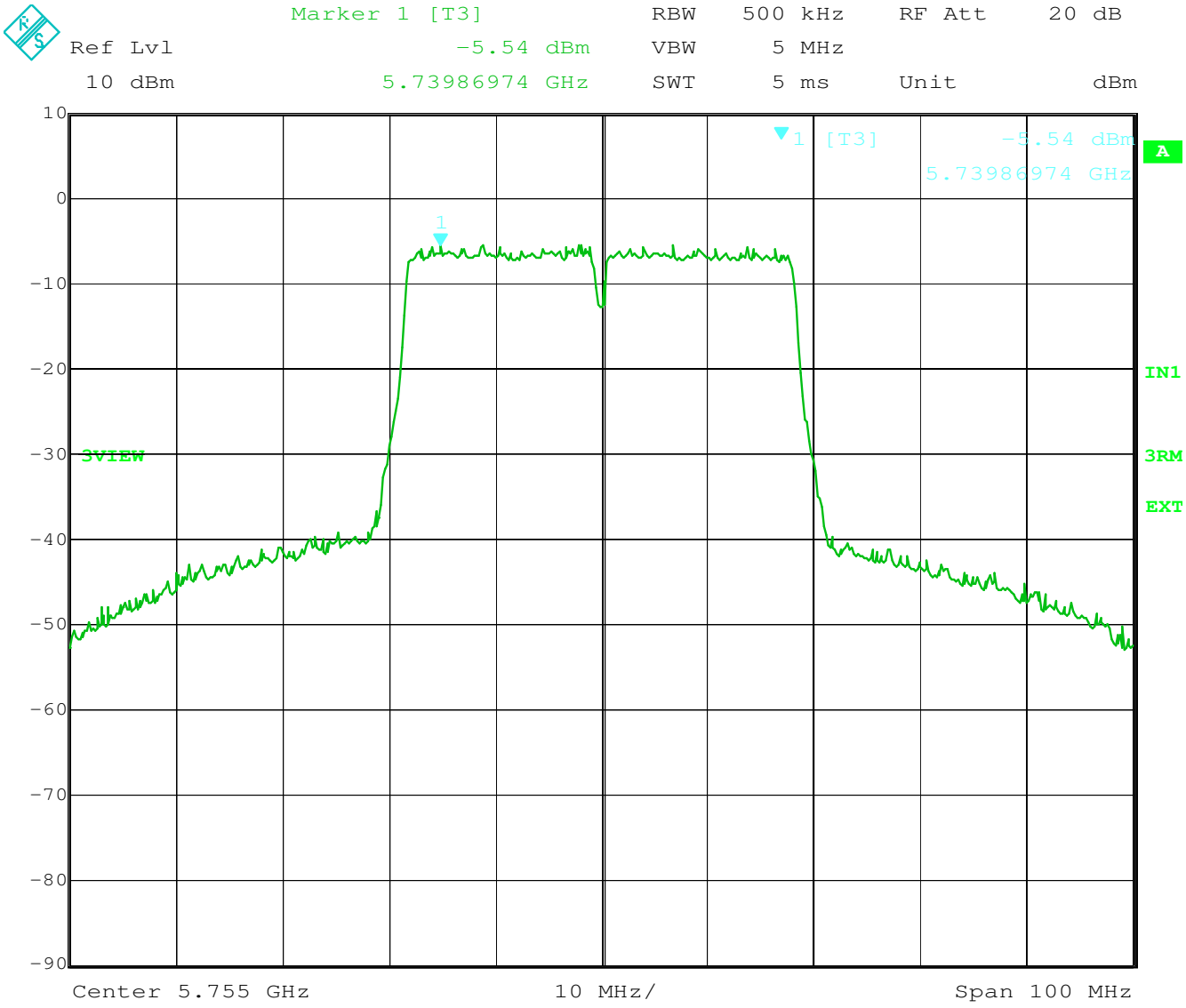
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(3)**

Conducted Measurement

Rated output power: 7,6 mW Channel 149-153 (5755 MHz center frequency)



Date: 12.FEB.2015 16:27:50

Power Spectral density: -5,54 dBm @ 5739,870 MHz

LIMIT **SUBCLAUSE 15.407(a)(3)**

For the band 5.725-5.85 GHz	the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

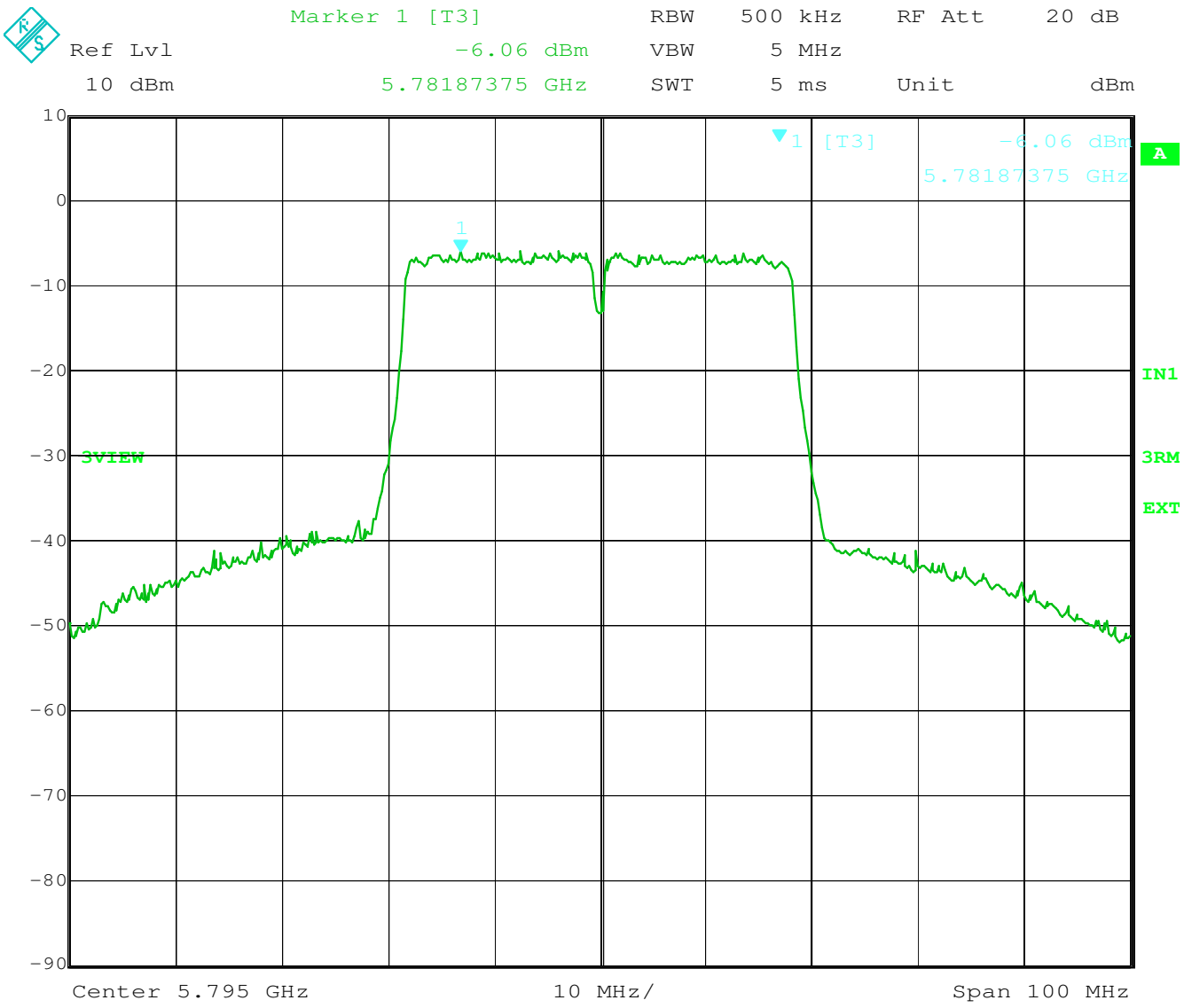
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum Power spectral density (conducted) **§ 15.407(a)(3)**

Conducted Measurement

Rated output power: 7,6 mW Channel 157-161 (5795 MHz center frequency)



Power Spectral density: -6,06 dBm @ 5781,874 MHz

LIMIT **SUBCLAUSE 15.407(a)(3)**

For the band 5.725-5.85 GHz	the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

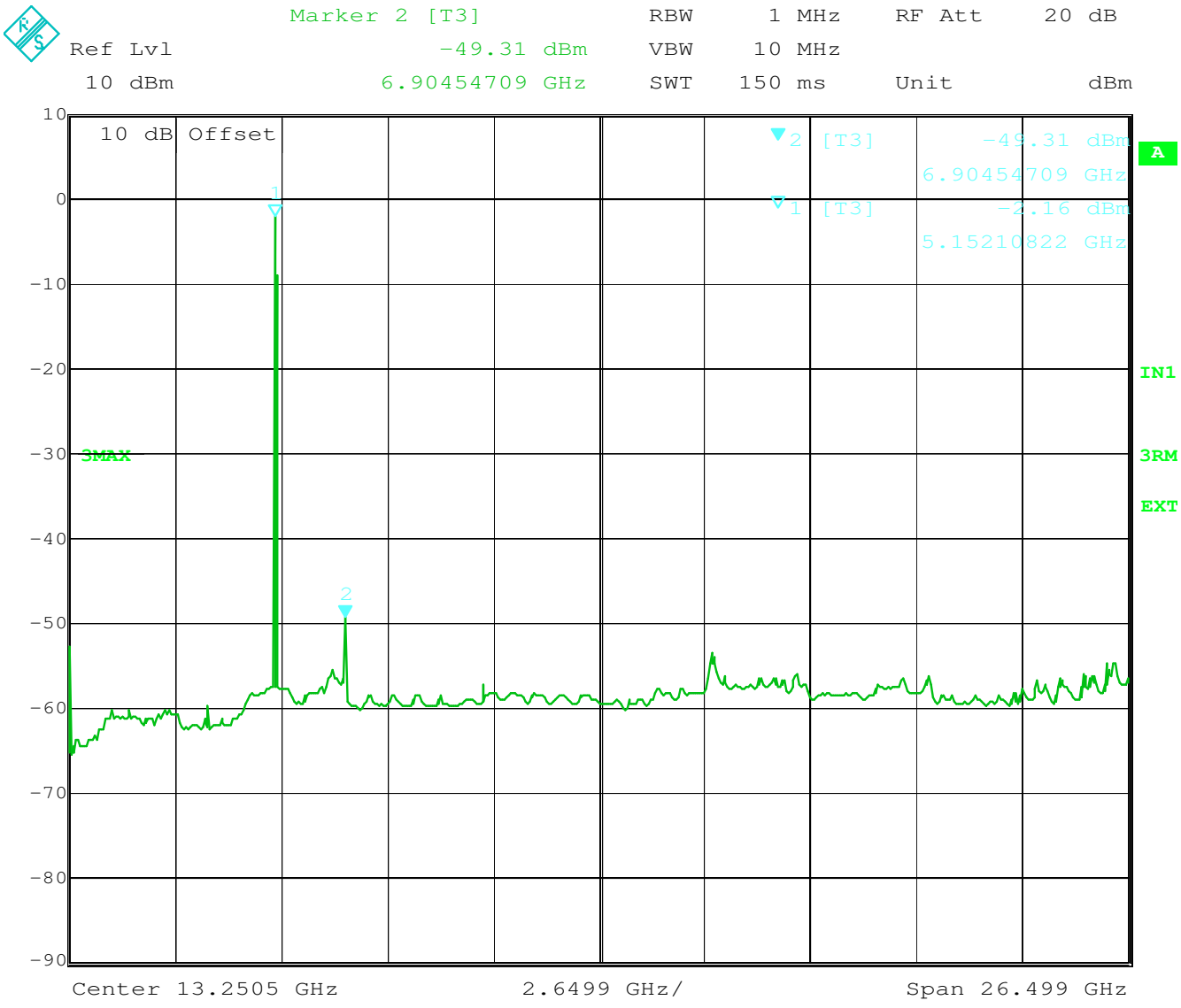
Test Equipment used: NT-207

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 36: 5180 MHz



Date: 27.FEB.2015 13:13:11

LIMIT **SUBCLAUSE 15.407(b)(1) – A8.5**

For transmitters operating in the 5.15-5.25 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

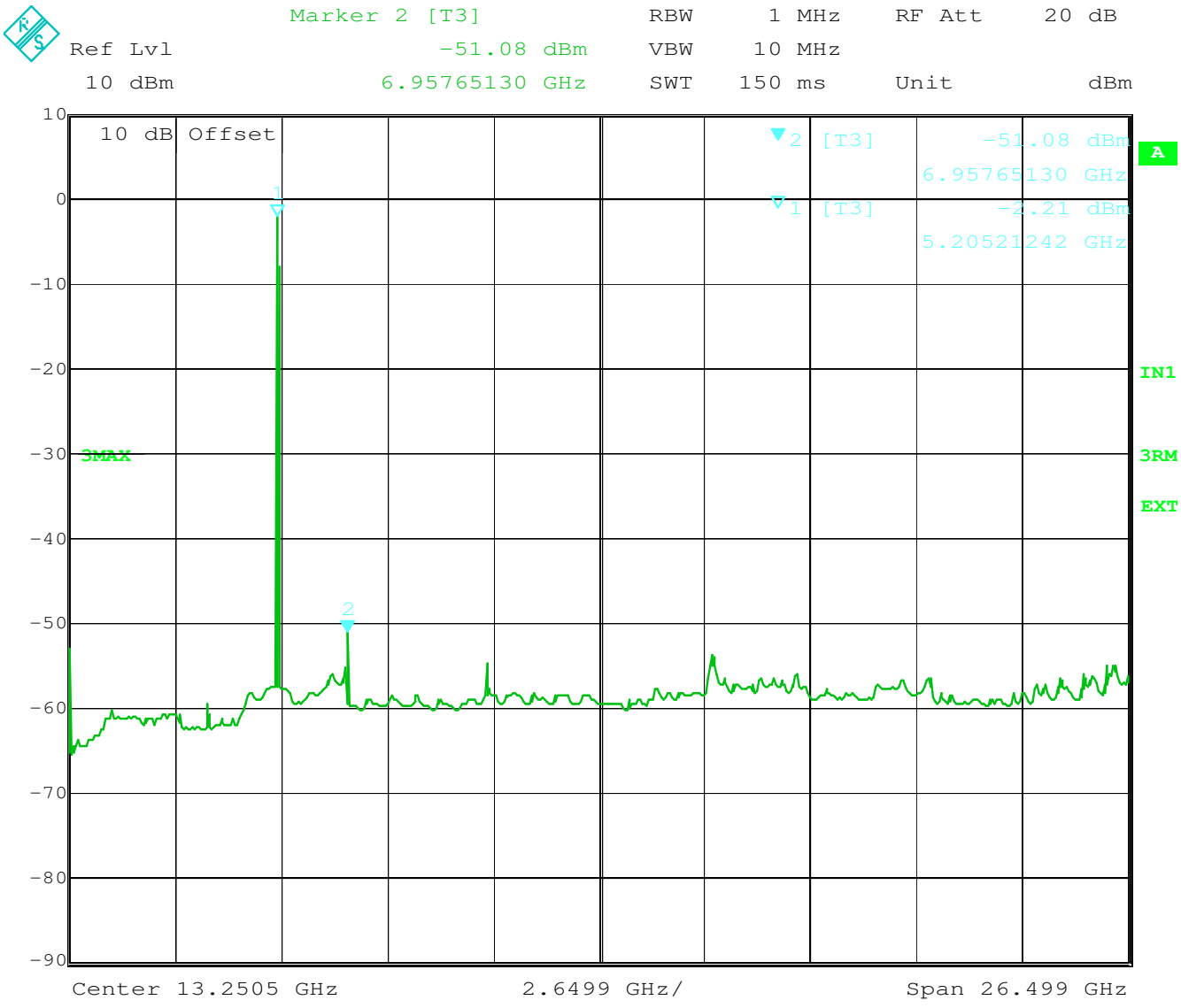
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 48: 5240 MHz



Date: 27.FEB.2015 13:11:57

LIMIT **SUBCLAUSE 15.407(b)(1) – A8.5**

For transmitters operating in the 5.15-5.25 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

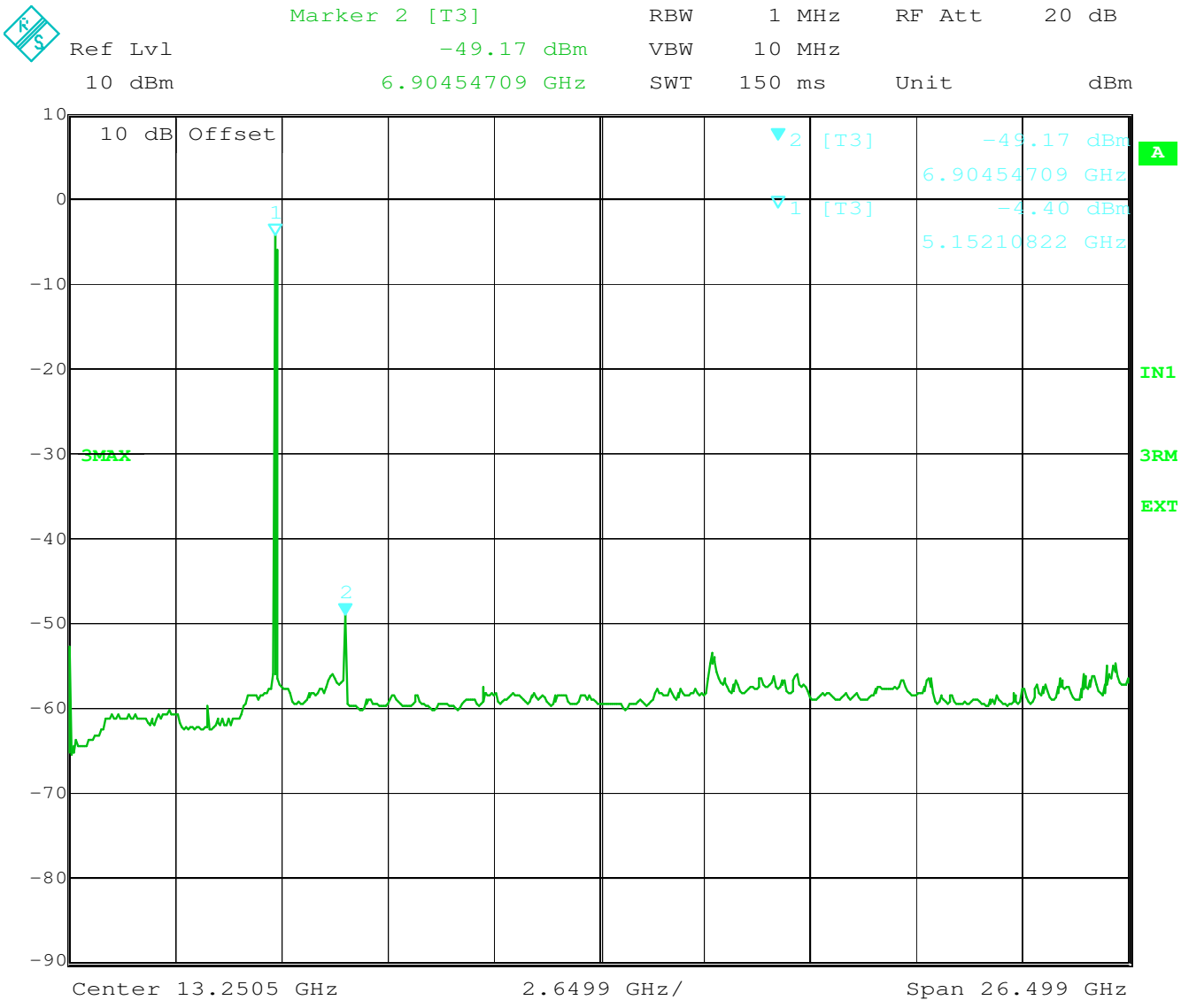
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 36-40: 5190 MHz



Date: 27.FEB.2015 13:14:04

LIMIT **SUBCLAUSE 15.407(b)(1) – A8.5**

For transmitters operating in the 5.15-5.25 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

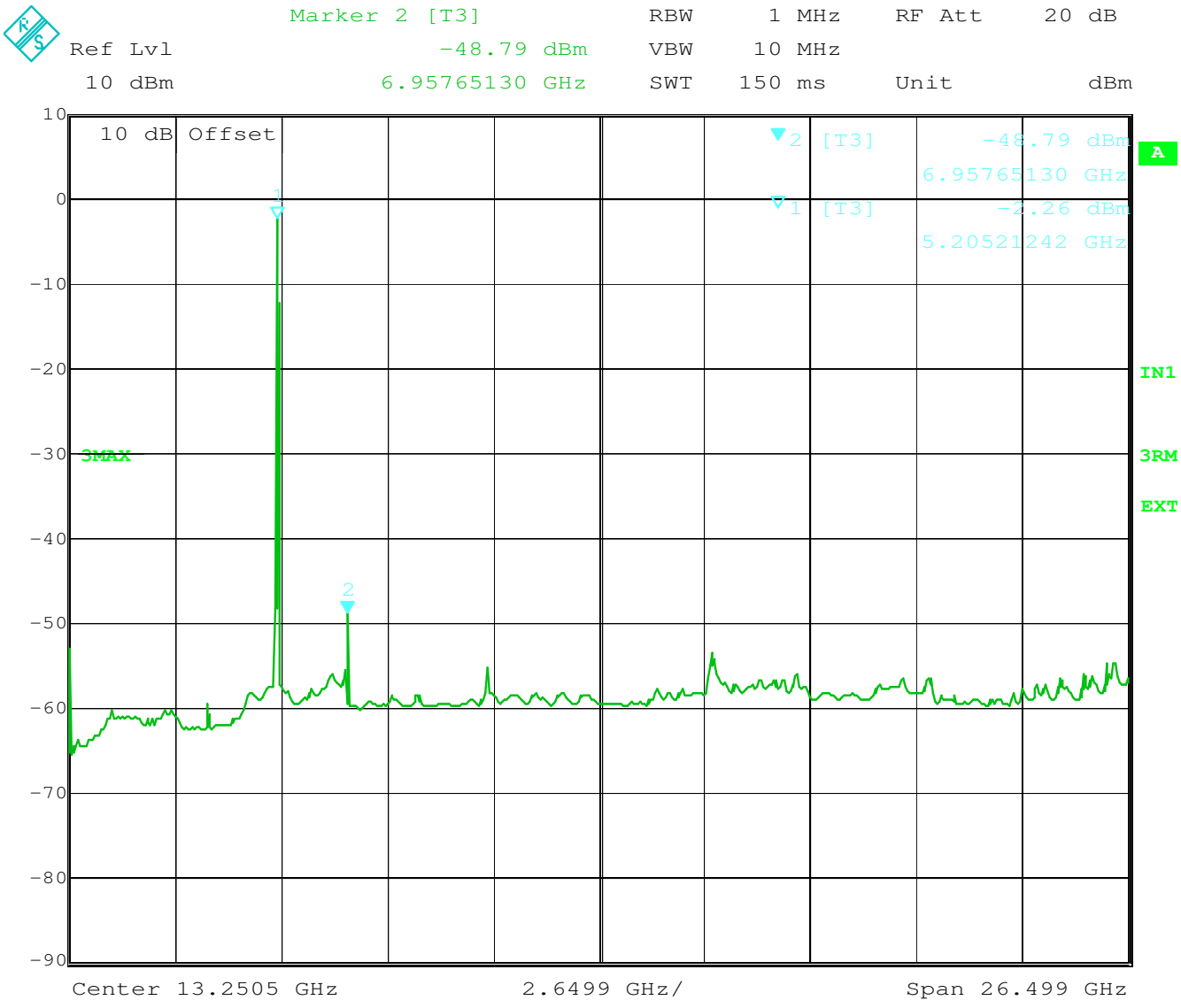
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 44-48: 5230 MHz



Date: 27.FEB.2015 13:14:52

LIMIT **SUBCLAUSE 15.407(b)(1) – A8.5**

For transmitters operating in the 5.15-5.25 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

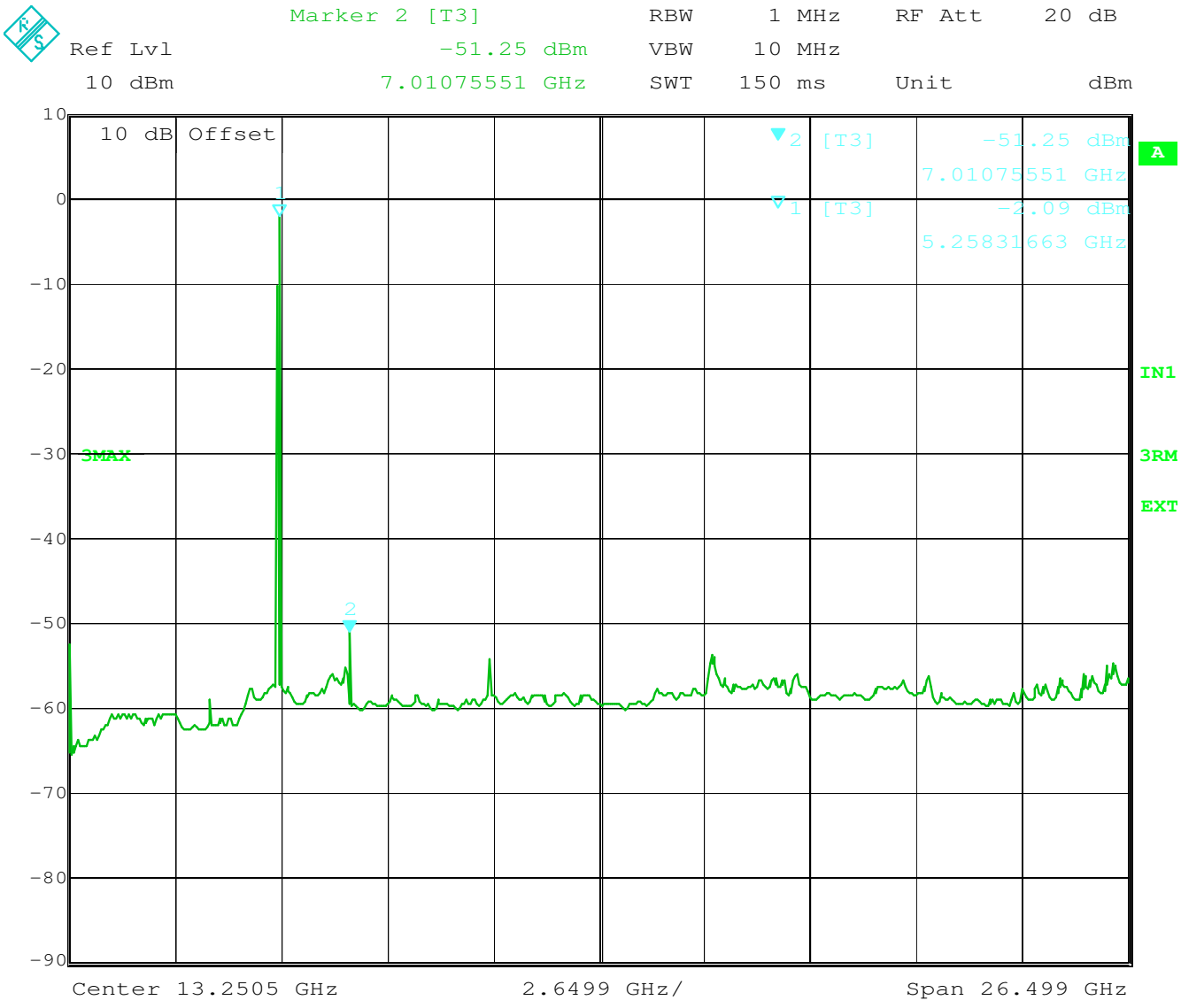
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 52: 5260 MHz



LIMIT **SUBCLAUSE 15.407(b)(2) – A8.5**

For transmitters operating in the 5.25-5.35 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

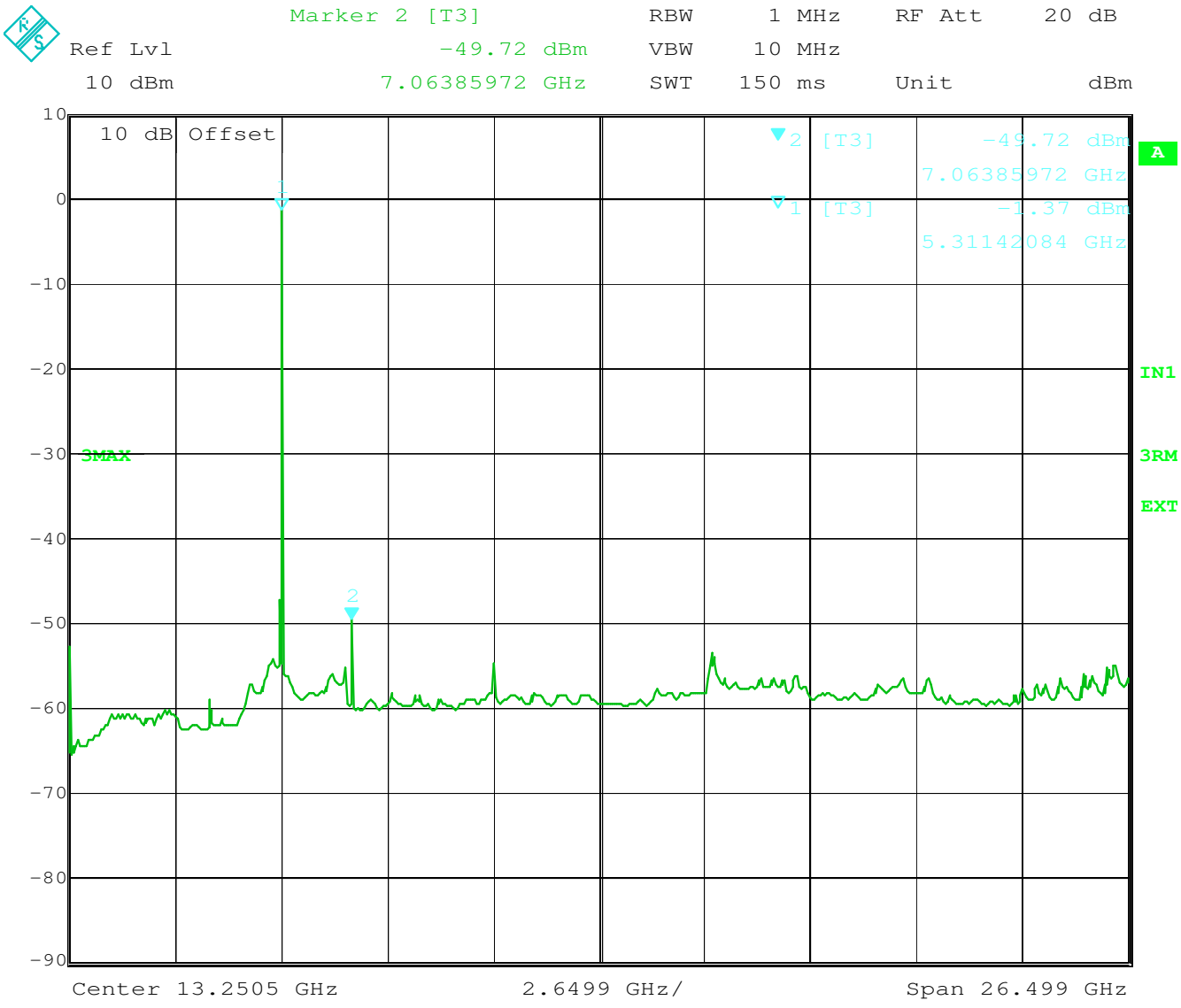
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 64: 5320 MHz



Date: 27.FEB.2015 13:10:16

LIMIT **SUBCLAUSE 15.407(b)(2) – A8.5**

For transmitters operating in the 5.25-5.35 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

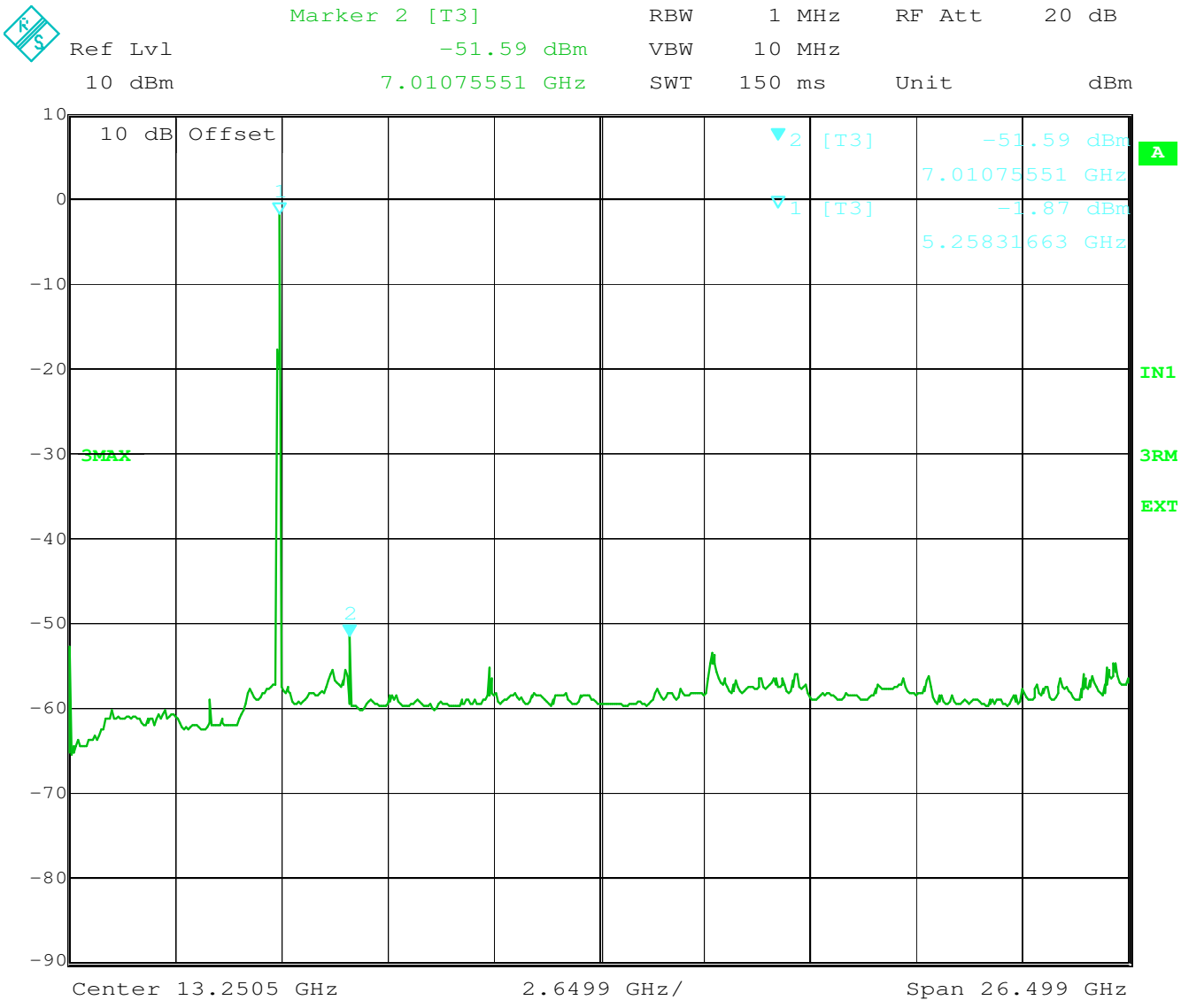
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 52-56: 5270 MHz



Date: 27.FEB.2015 13:16:15

LIMIT **SUBCLAUSE 15.407(b)(2) – A8.5**

For transmitters operating in the 5.25-5.35 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

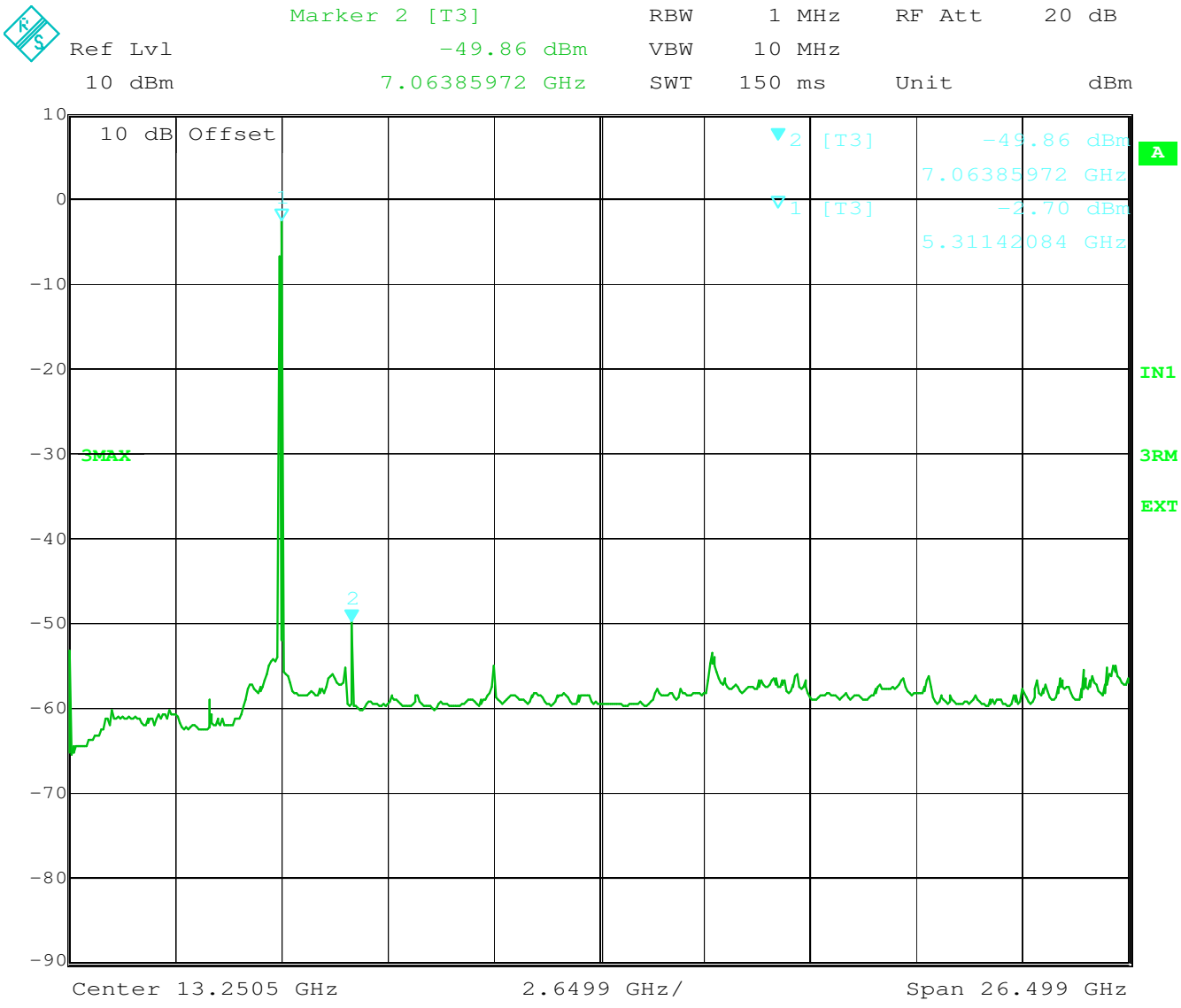
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 60-64: 5310 MHz



Date: 27.FEB.2015 13:17:10

LIMIT **SUBCLAUSE 15.407(b)(2) – A8.5**

For transmitters operating in the 5.25-5.35 GHz band	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

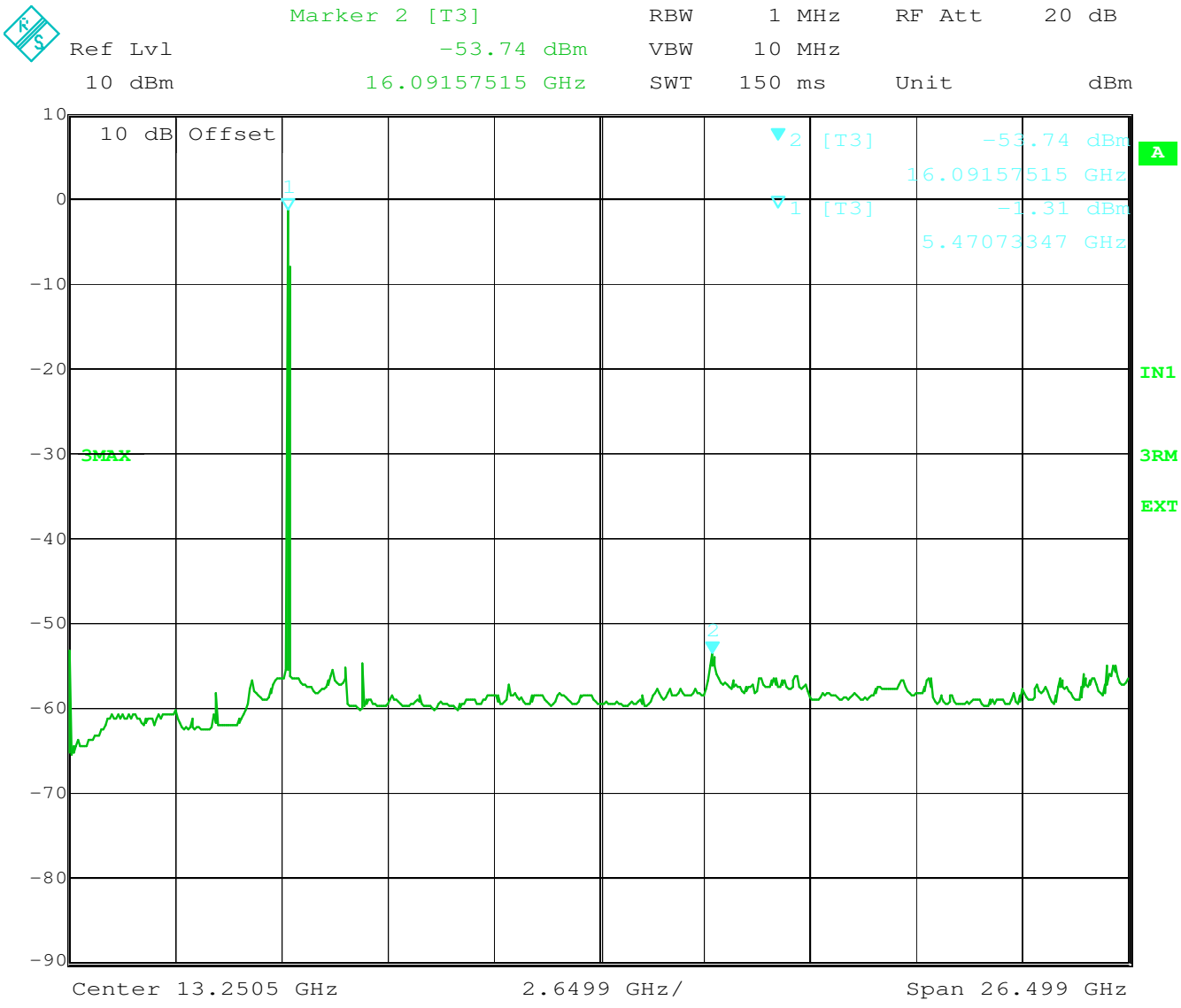
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 100: 5500 MHz



Date: 27.FEB.2015 13:09:18

LIMIT **SUBCLAUSE 15.407(b)(3) – A8.5**

For transmitters operating in the 5.47-5.725 GHz band	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

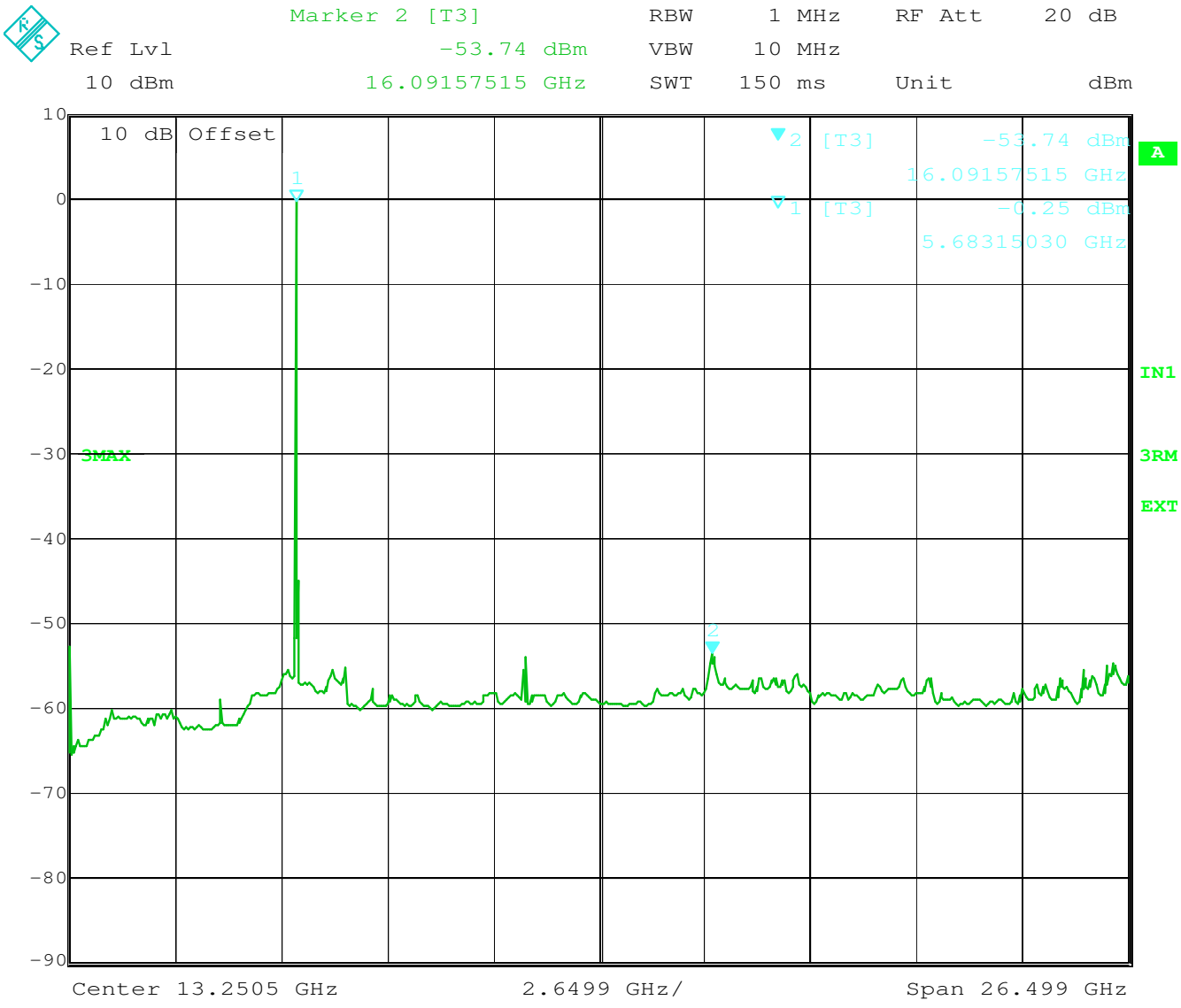
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 140: 5700 MHz



LIMIT **SUBCLAUSE 15.407(b)(3) – A8.5**

For transmitters operating in the 5.47-5.725 GHz band	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

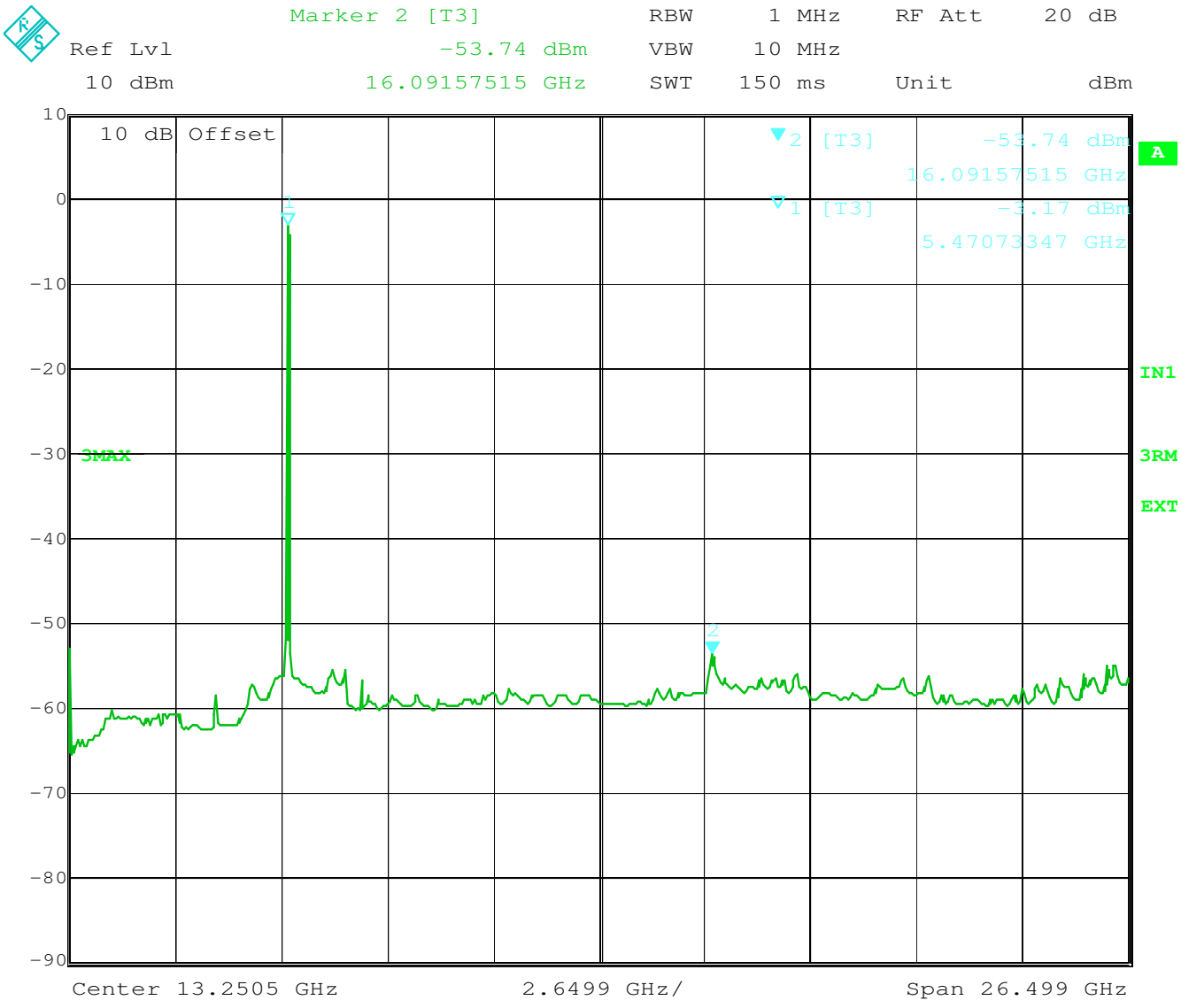
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 100-104: 5510 MHz



Date: 27.FEB.2015 13:18:02

LIMIT **SUBCLAUSE 15.407(b)(3) – A8.5**

For transmitters operating in the 5.47-5.725 GHz band	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

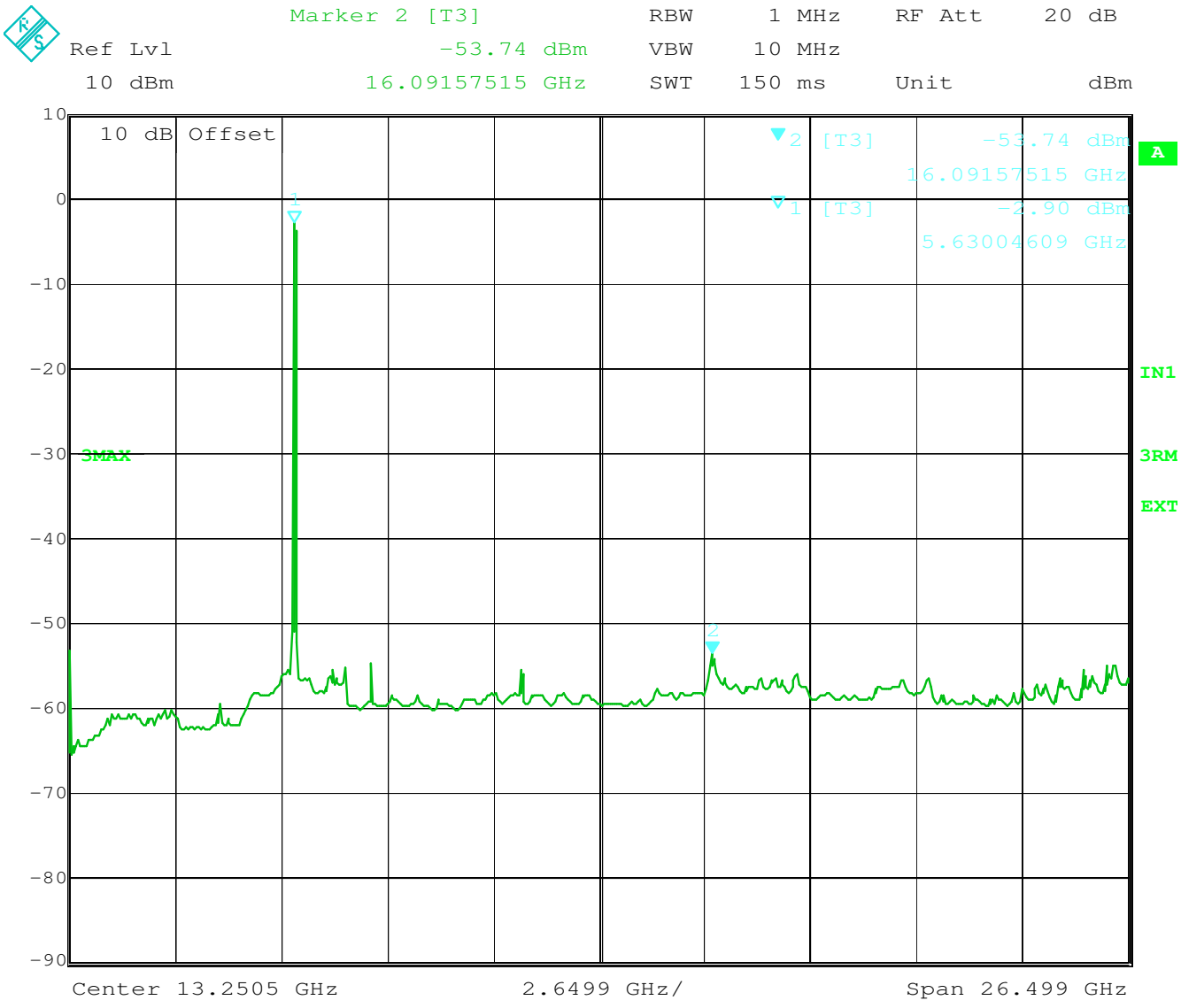
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 132-136: 5670 MHz



Date: 27.FEB.2015 13:18:52

LIMIT **SUBCLAUSE 15.407(b)(3) – A8.5**

For transmitters operating in the 5.47-5.725 GHz band	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

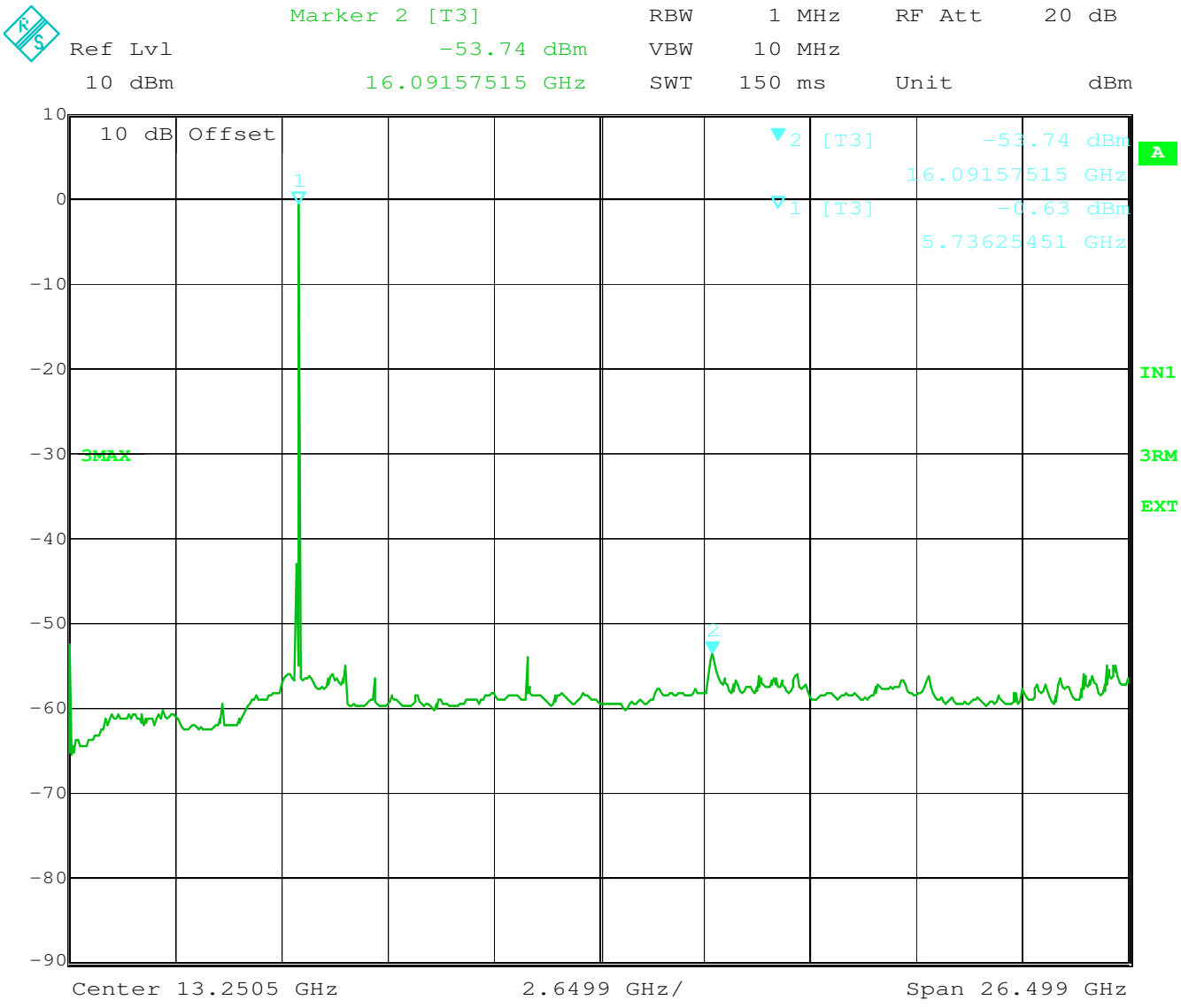
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 149: 5745 MHz



Date: 27.FEB.2015 13:07:42

LIMIT **SUBCLAUSE 15.407(b)(4) – A8.5**

For transmitters operating in the 5.725-5.85 GHz band	All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

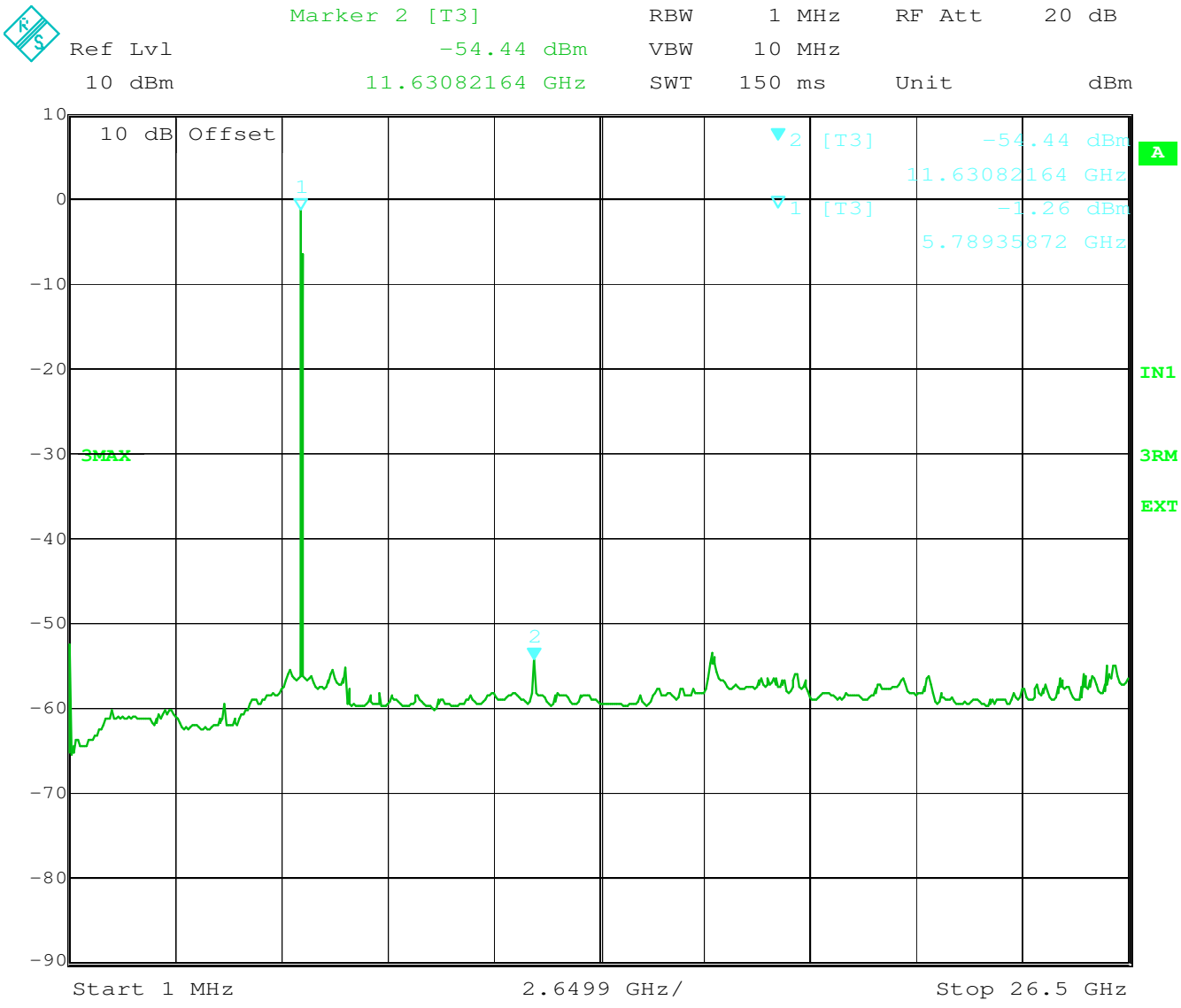
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 165: 5825 MHz



Date: 27.FEB.2015 13:06:45

LIMIT **SUBCLAUSE 15.407(b)(4) – A8.5**

For transmitters operating in the 5.725-5.85 GHz band	All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

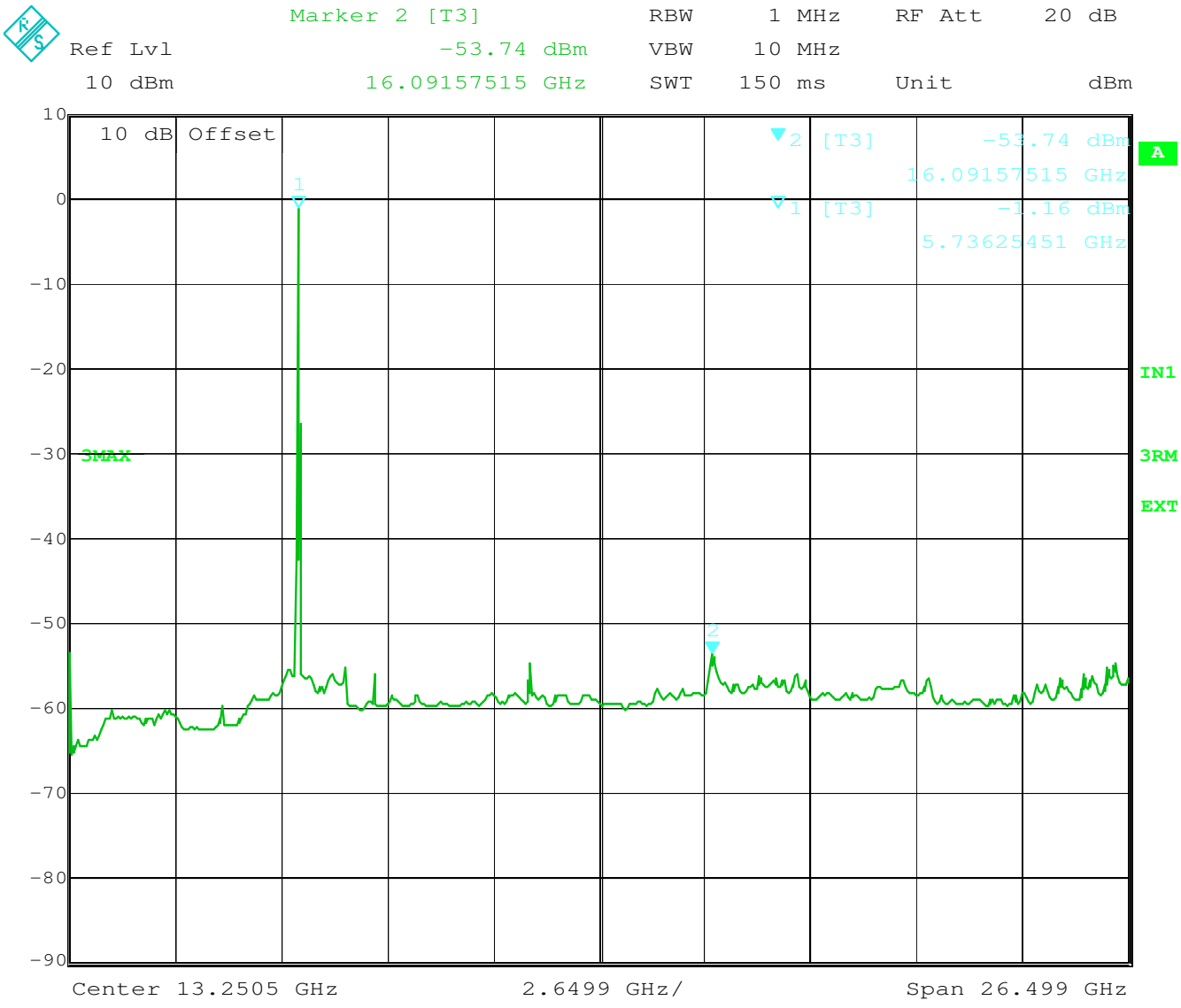
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 149-153: 5755 MHz



Date: 27.FEB.2015 13:20:11

LIMIT **SUBCLAUSE 15.407(b)(4) – A8.5**

For transmitters operating in the 5.725-5.85 GHz band	All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

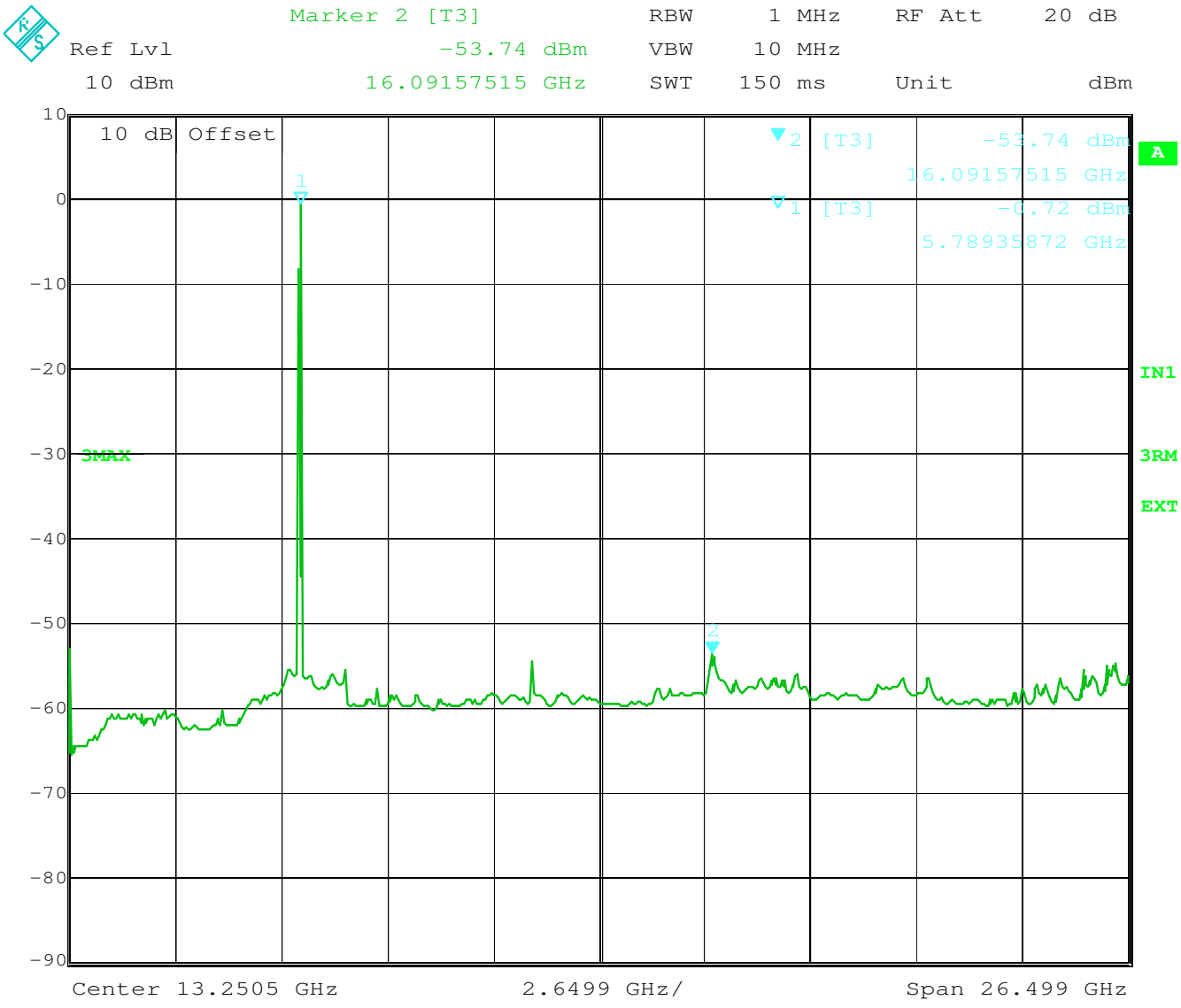
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Undesirable Emission Limits **§ 15.407(b)**

Conducted measurement

Setup: CH 157-161: 5795 MHz



Date: 27.FEB.2015 13:20:59

LIMIT **SUBCLAUSE 15.407(b)(4) – A8.5**

For transmitters operating in the 5.725-5.85 GHz band	All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of –27 dBm/MHz.

Although the measurement above stops at 26,5 GHz, all emissions have been measured up to the tenth harmonics.

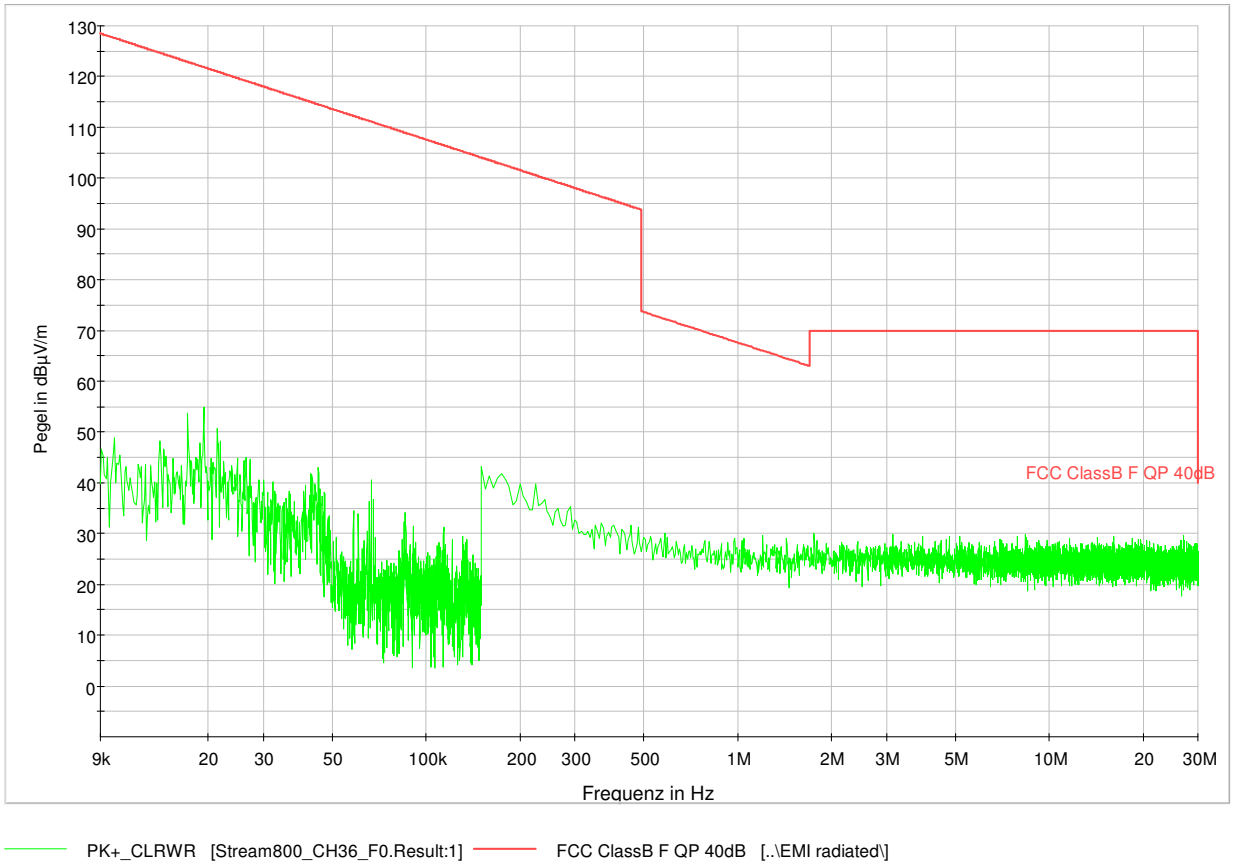
Test Equipment used: NT-207; NT-211; NT-214; NT-218

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 36: 5180 MHz



Worst case emission: 54,9 dBµV/m @ 19,3 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

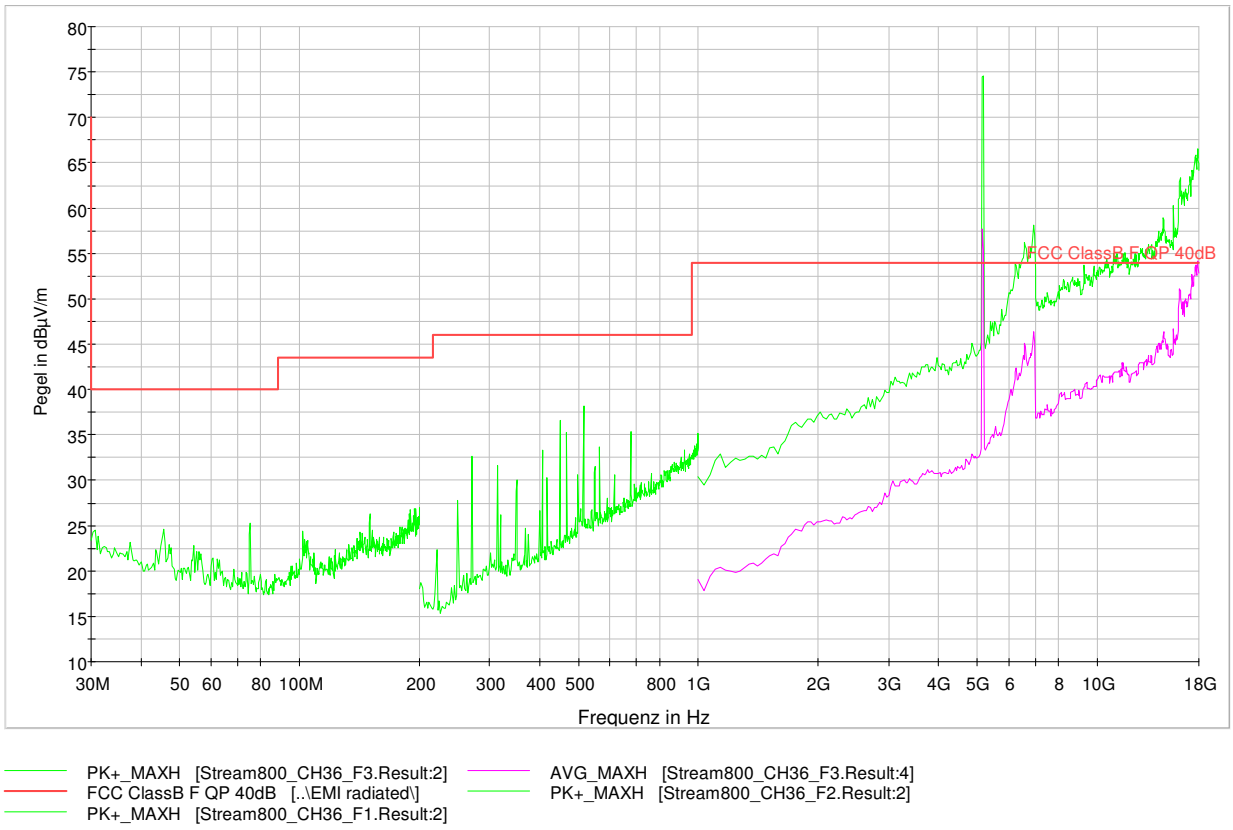
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 36: 5180 MHz



Worst case emission: 38,2 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

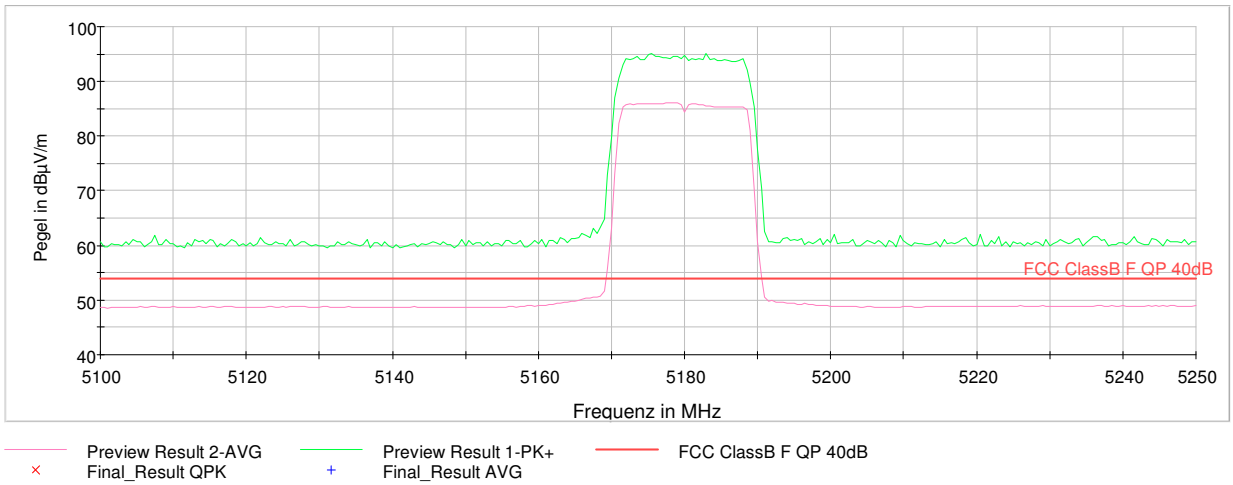
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 36: 5180 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5150 MHz.

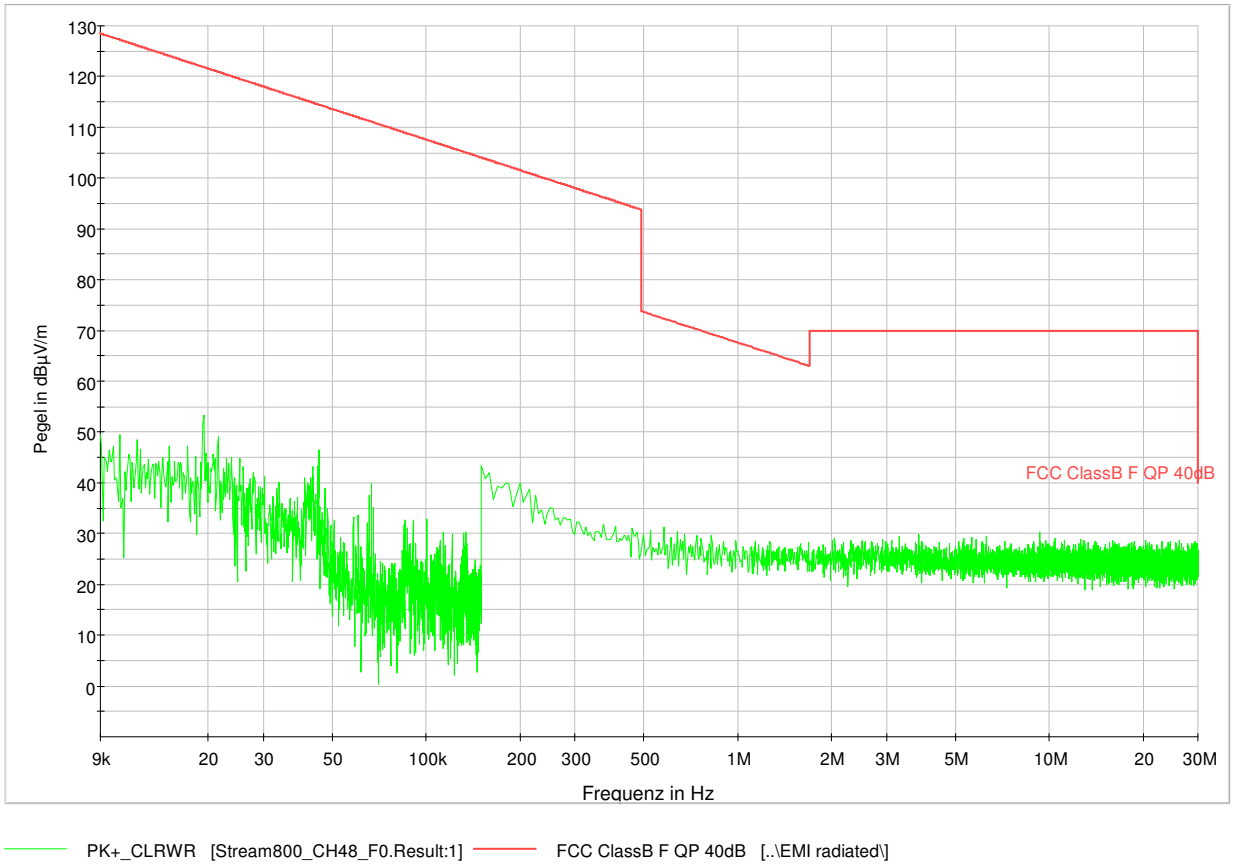
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 48: 5240 MHz



Worst case emission: 53,3 dBµV/m @ 19,3 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

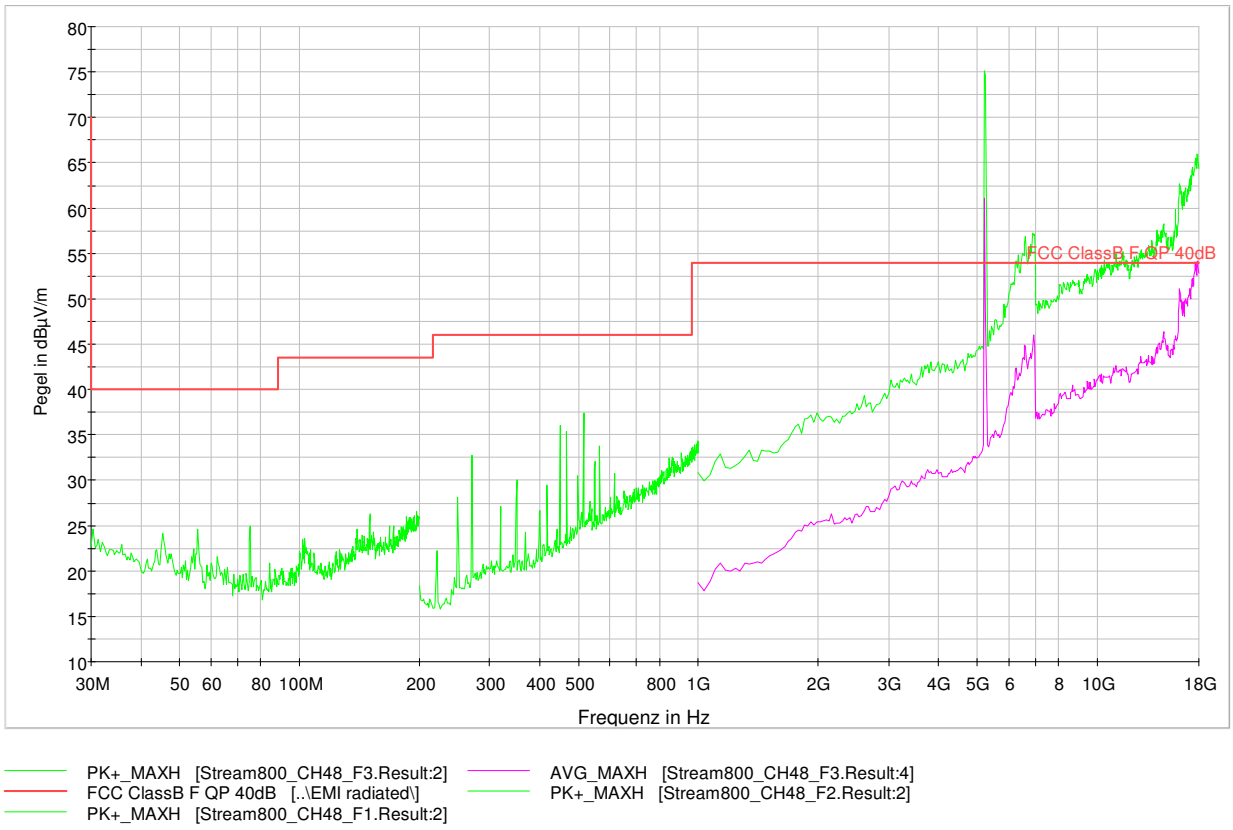
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 48: 5240 MHz



Worst case emission: 37,4 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

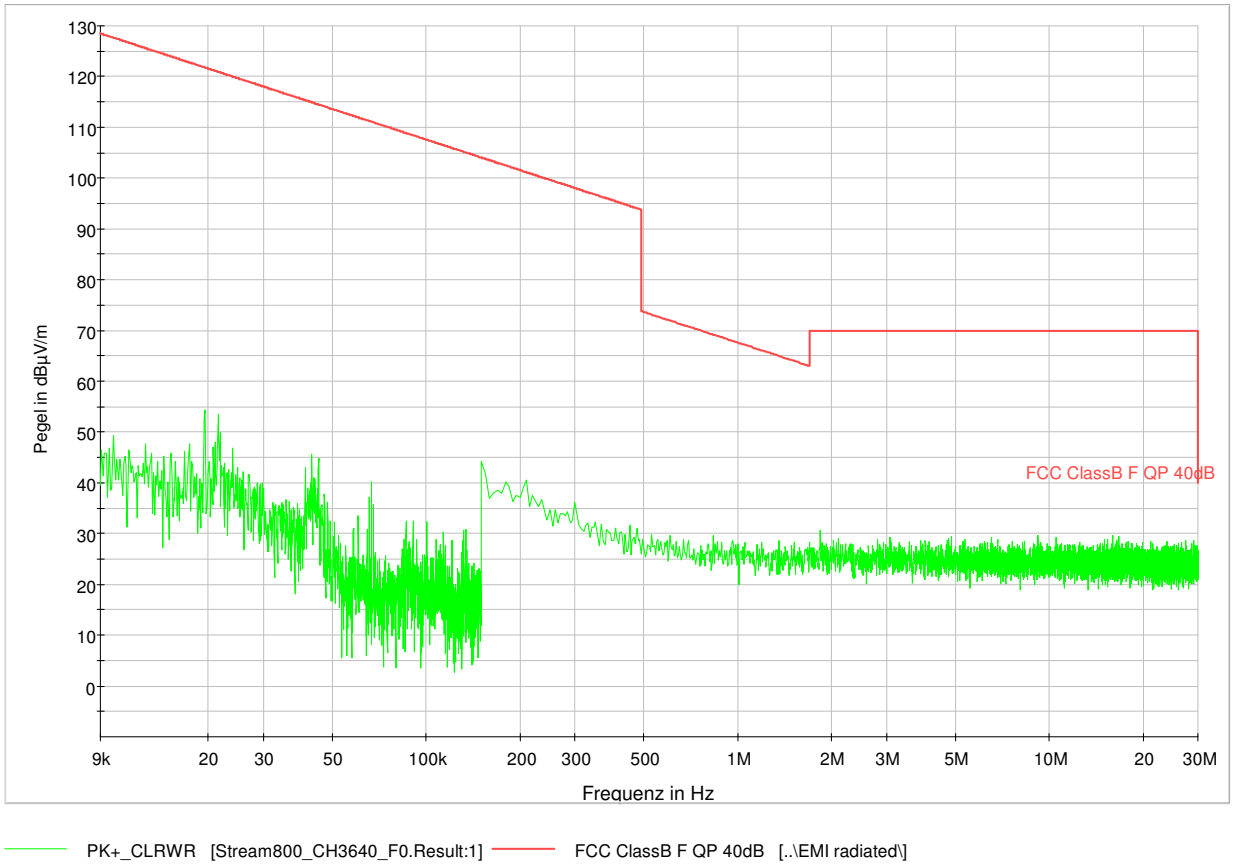
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 36-40: 5190 MHz



Worst case emission: 54,4 dBµV/m @ 19,5 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

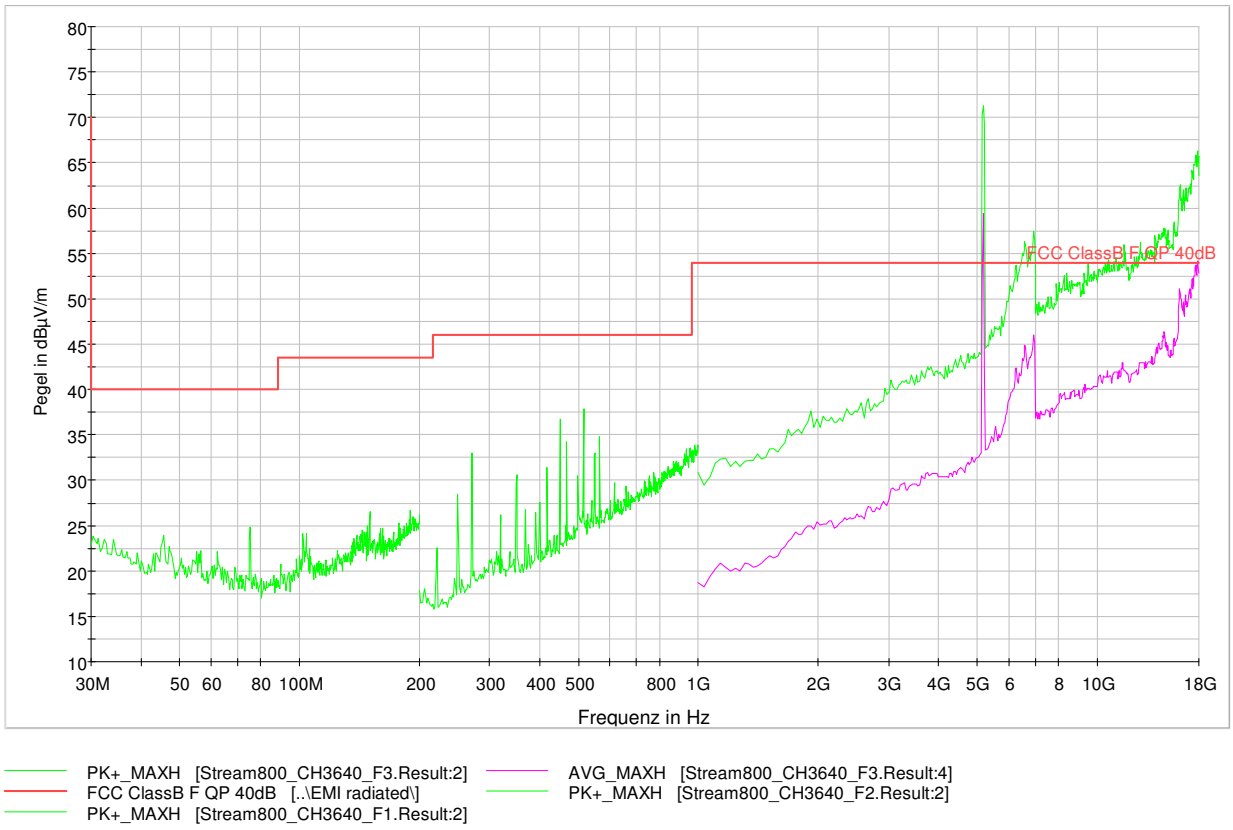
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 36-40: 5190 MHz



Worst case emission: 37,8 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

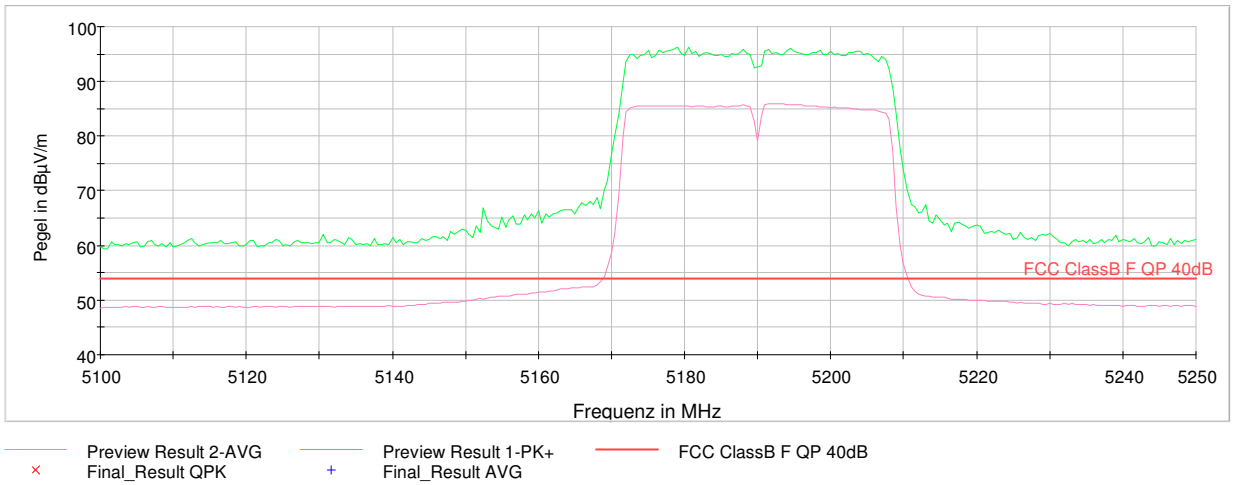
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 36-40: 5190 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5150 MHz.

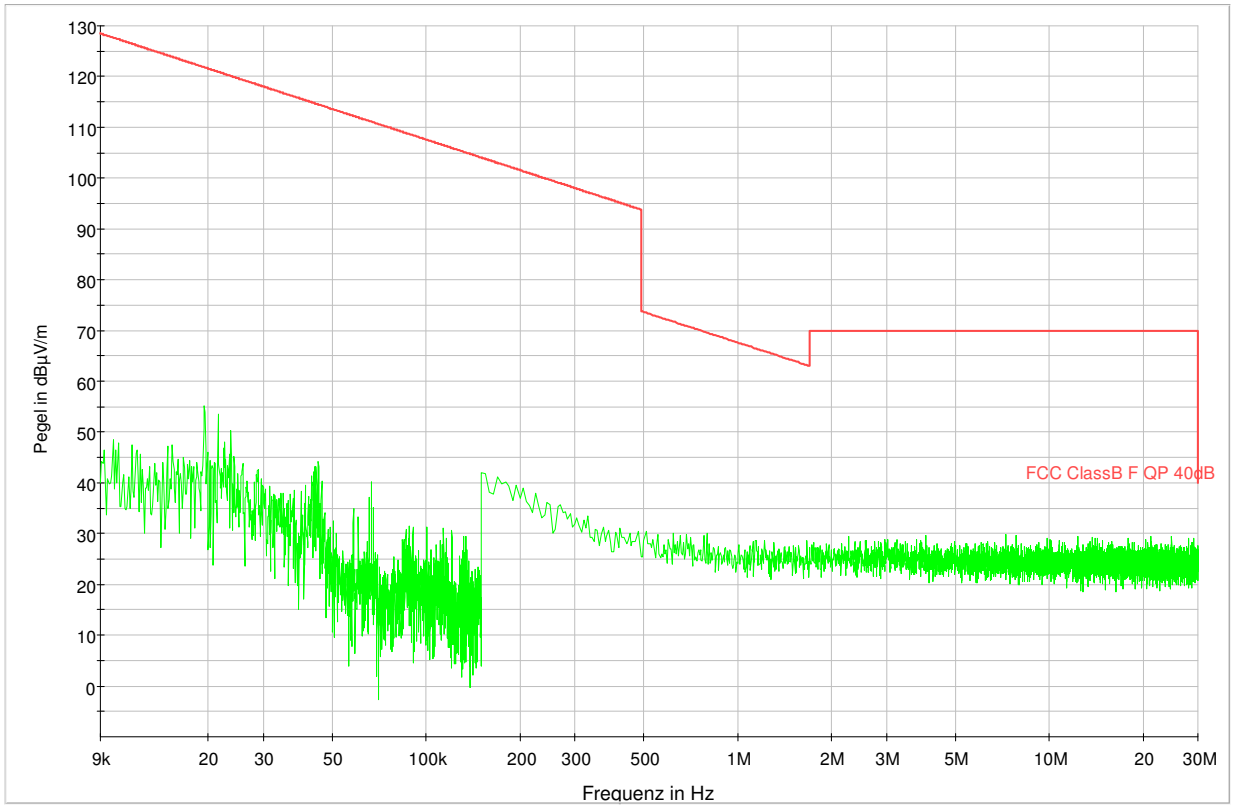
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 44-48: 5230 MHz



Worst case emission: 55,1 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

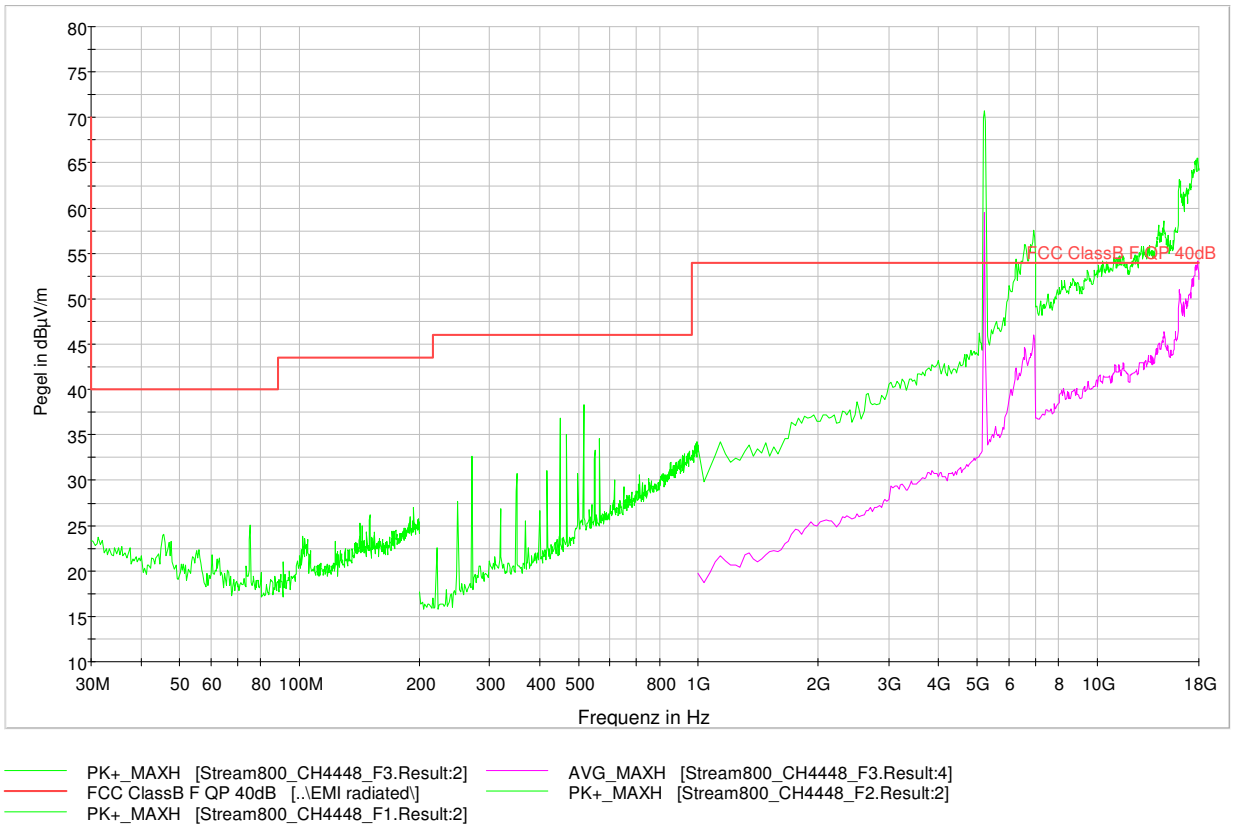
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 44-48: 5230 MHz



Worst case emission: 38,3 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

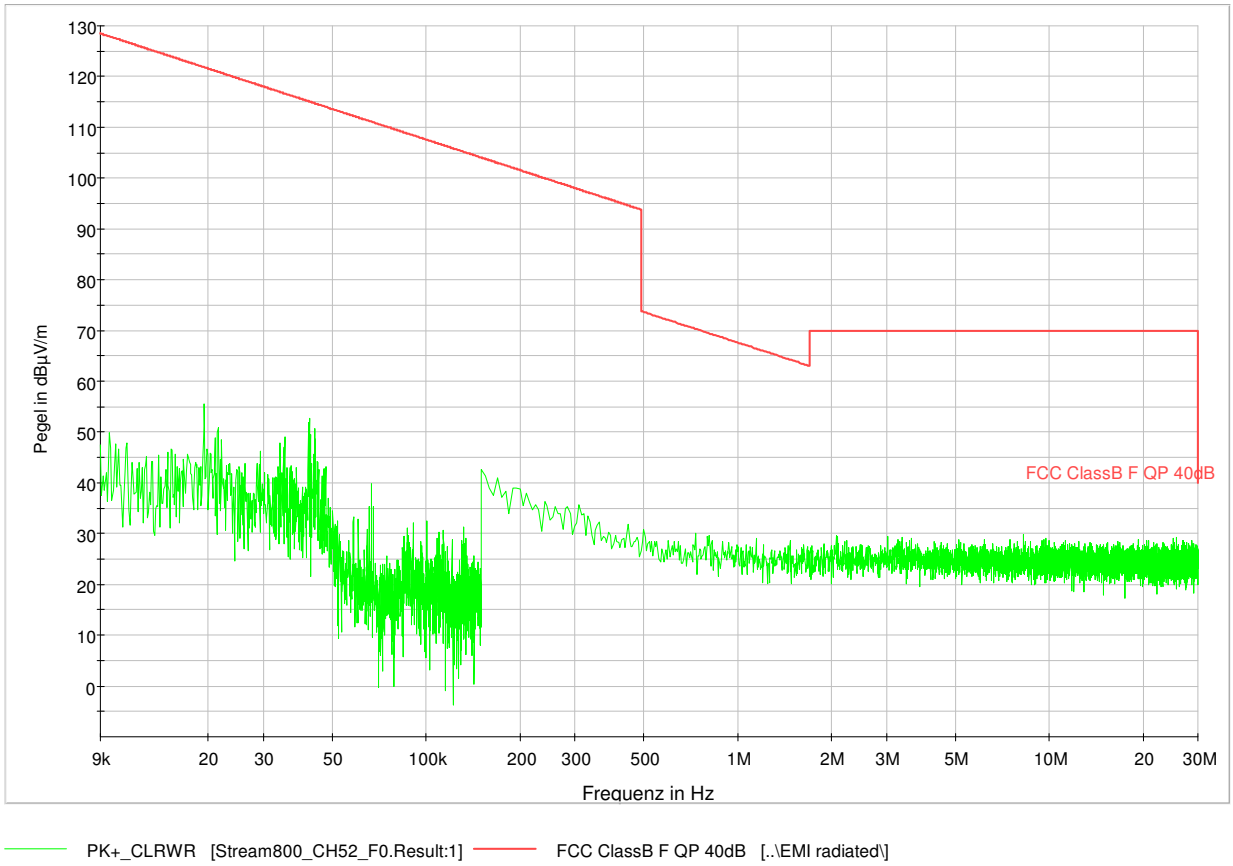
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 52: 5260 MHz



Worst case emission: 55,6 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

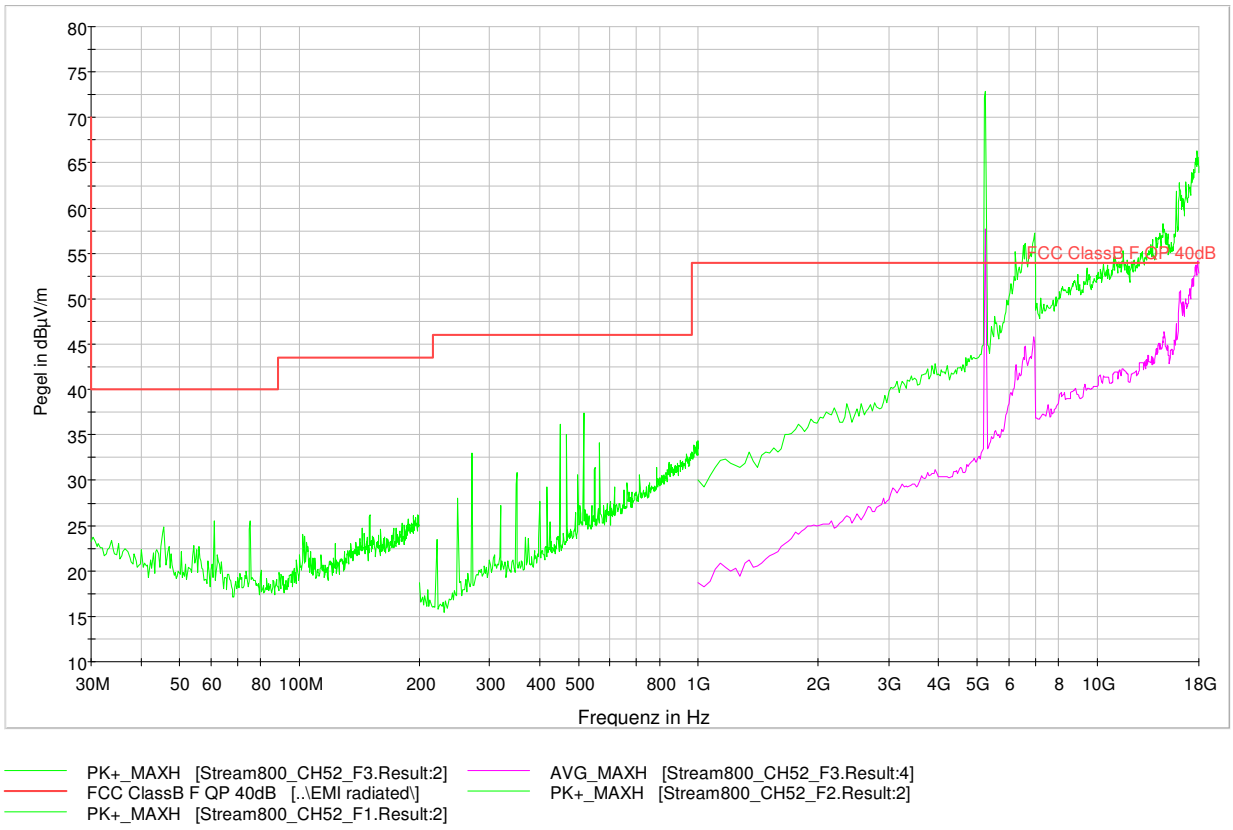
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 52: 5260 MHz



Worst case emission: 37,4 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

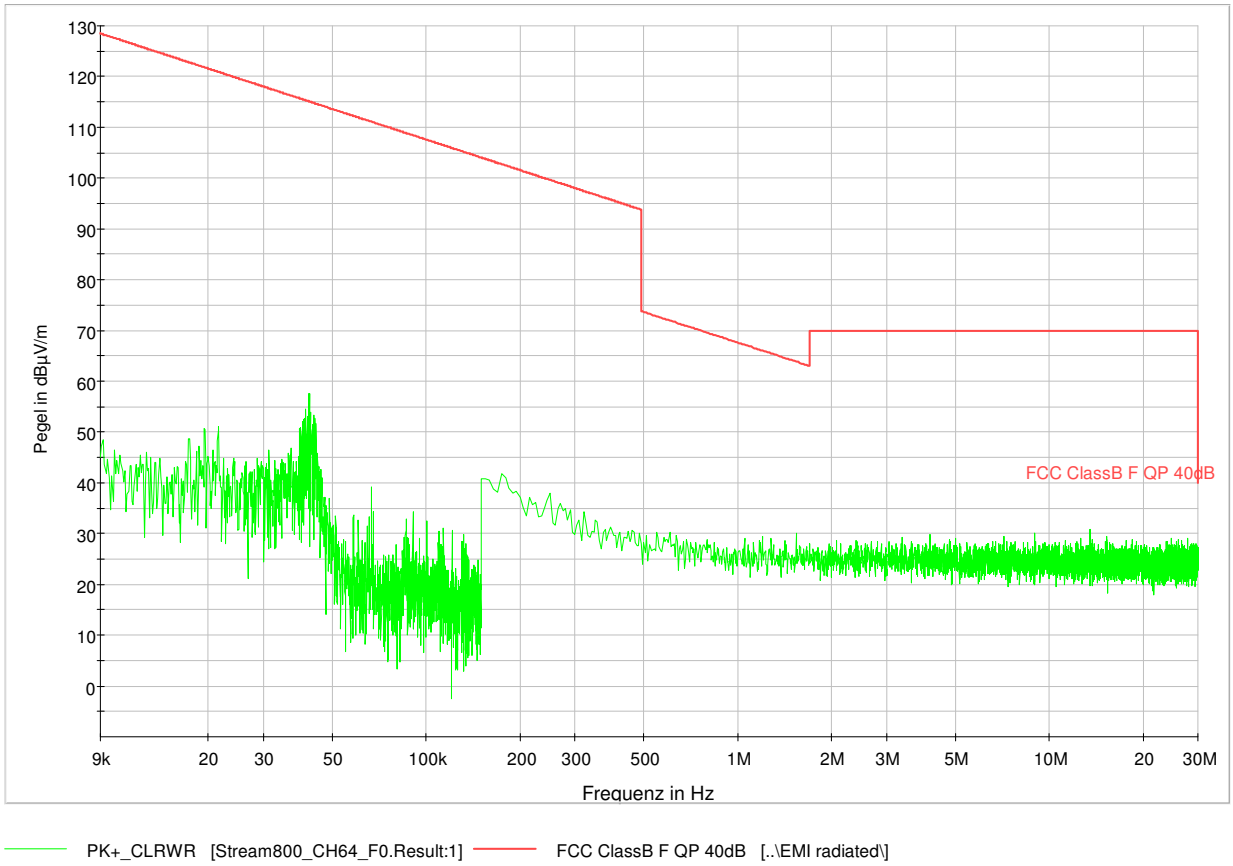
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 64: 5320 MHz



Worst case emission: 57,6 dBµV/m @ 42,2 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

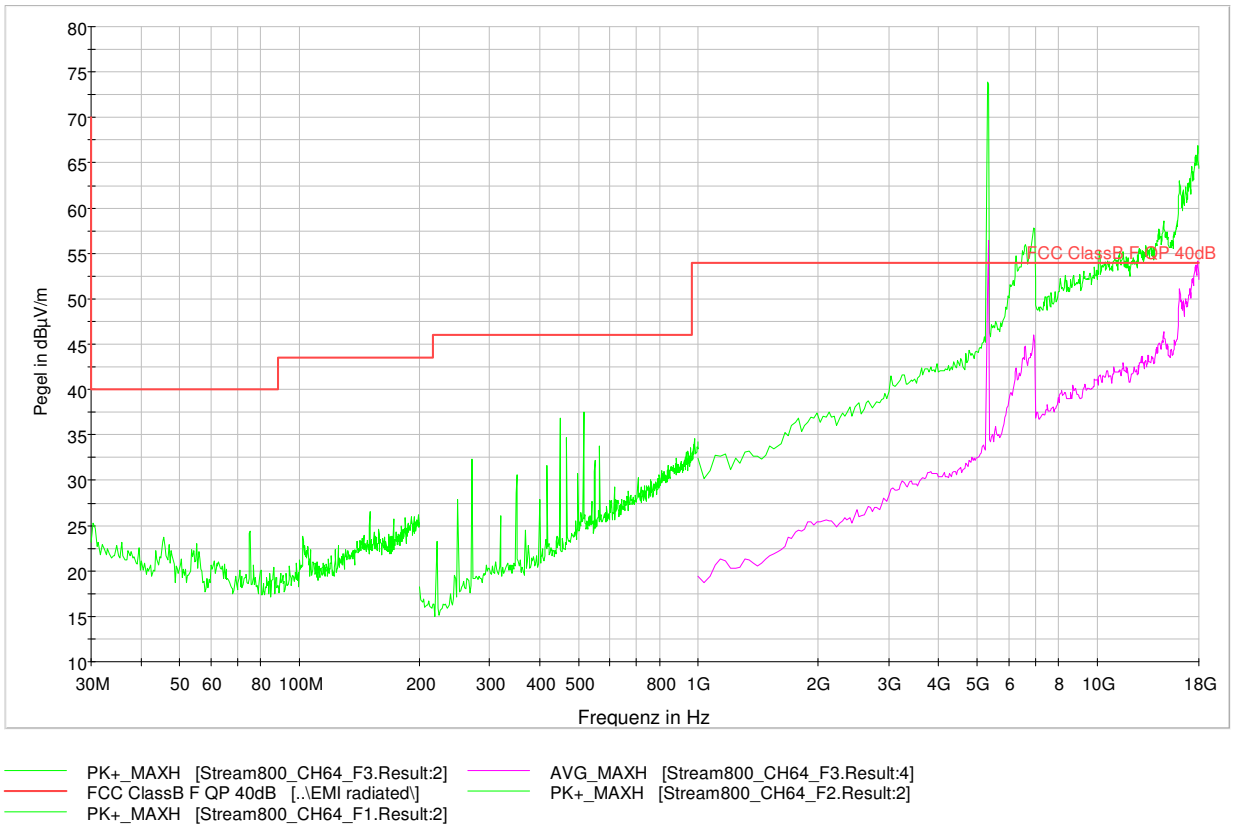
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 64: 5320 MHz



Worst case emission: 37,6 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

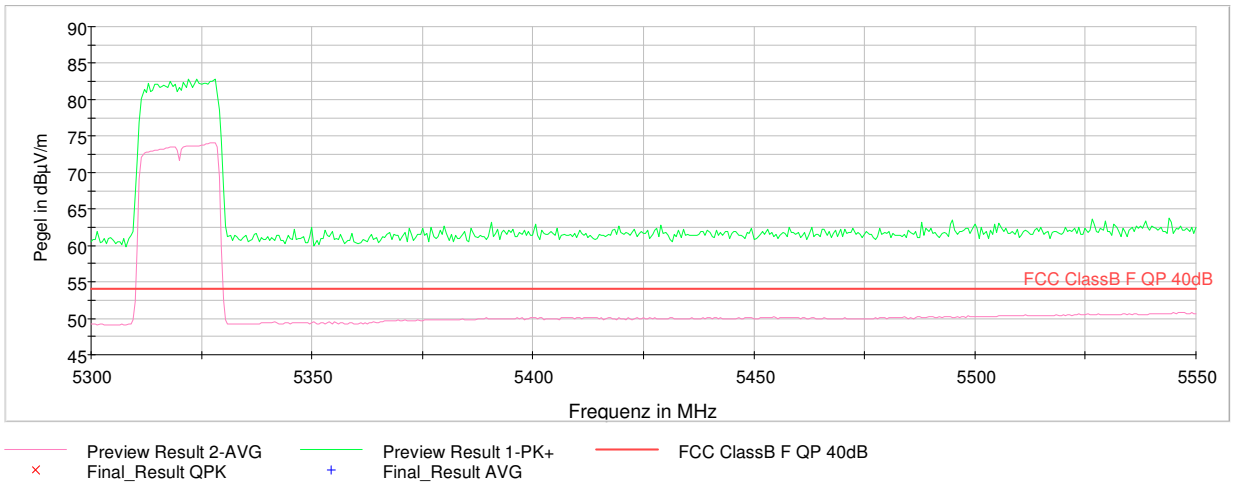
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 64: 5320 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5350 MHz.

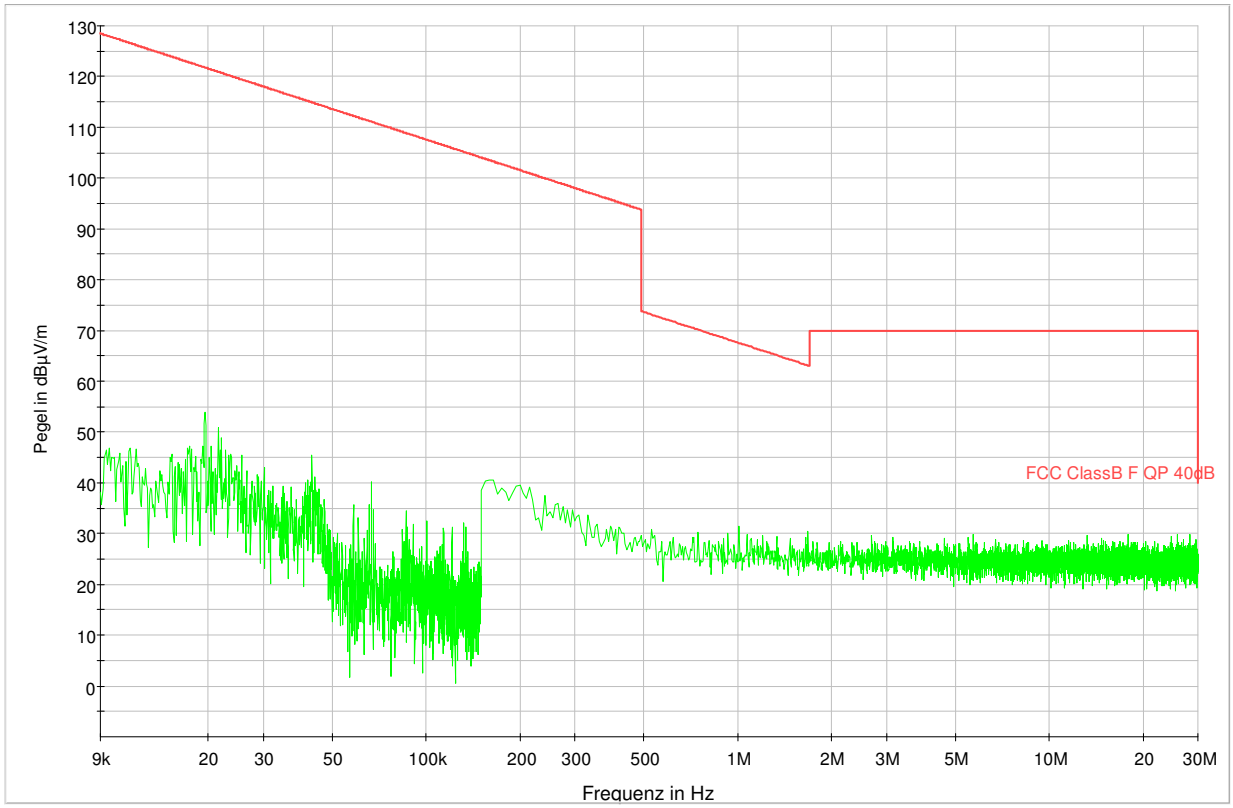
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 52-56: 5270 MHz



Worst case emission: 53,8 dBµV/m @ 19,5 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

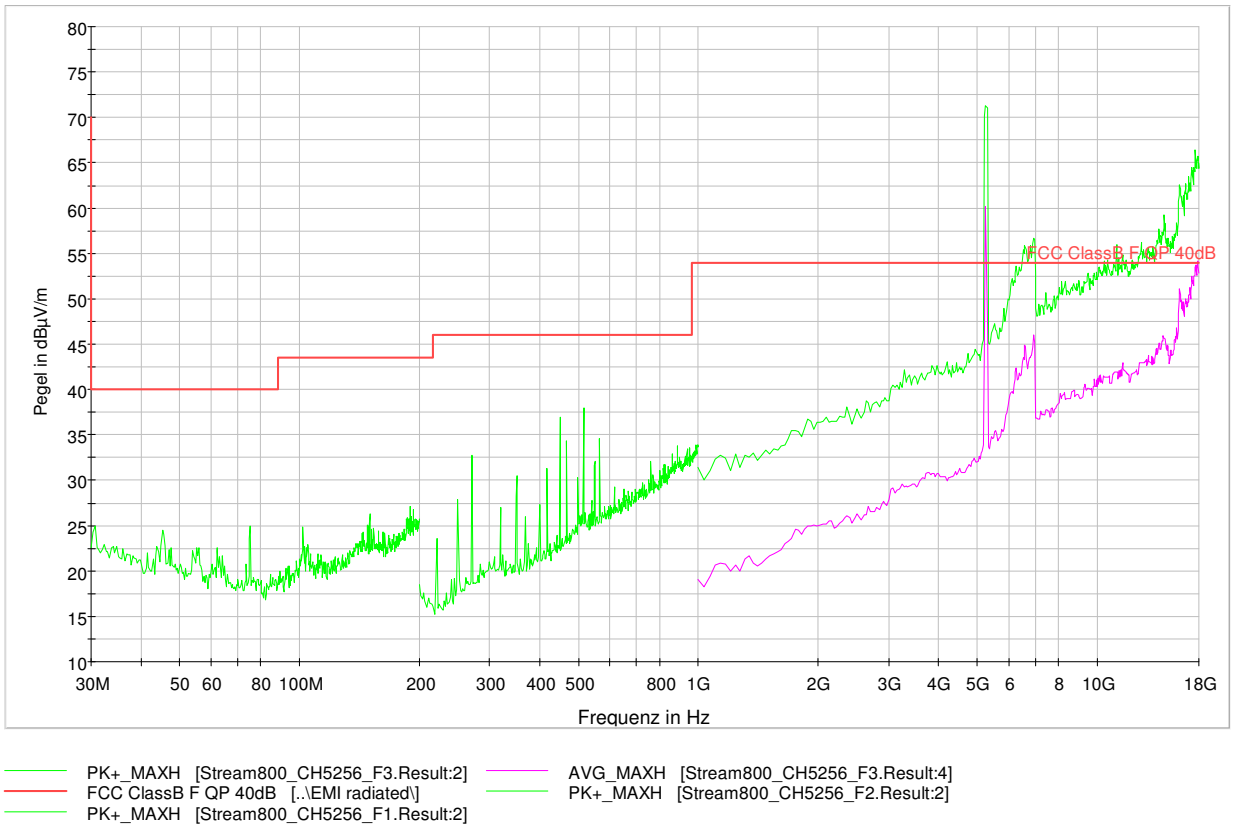
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 52-56: 5270 MHz



Worst case emission: 38,0 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

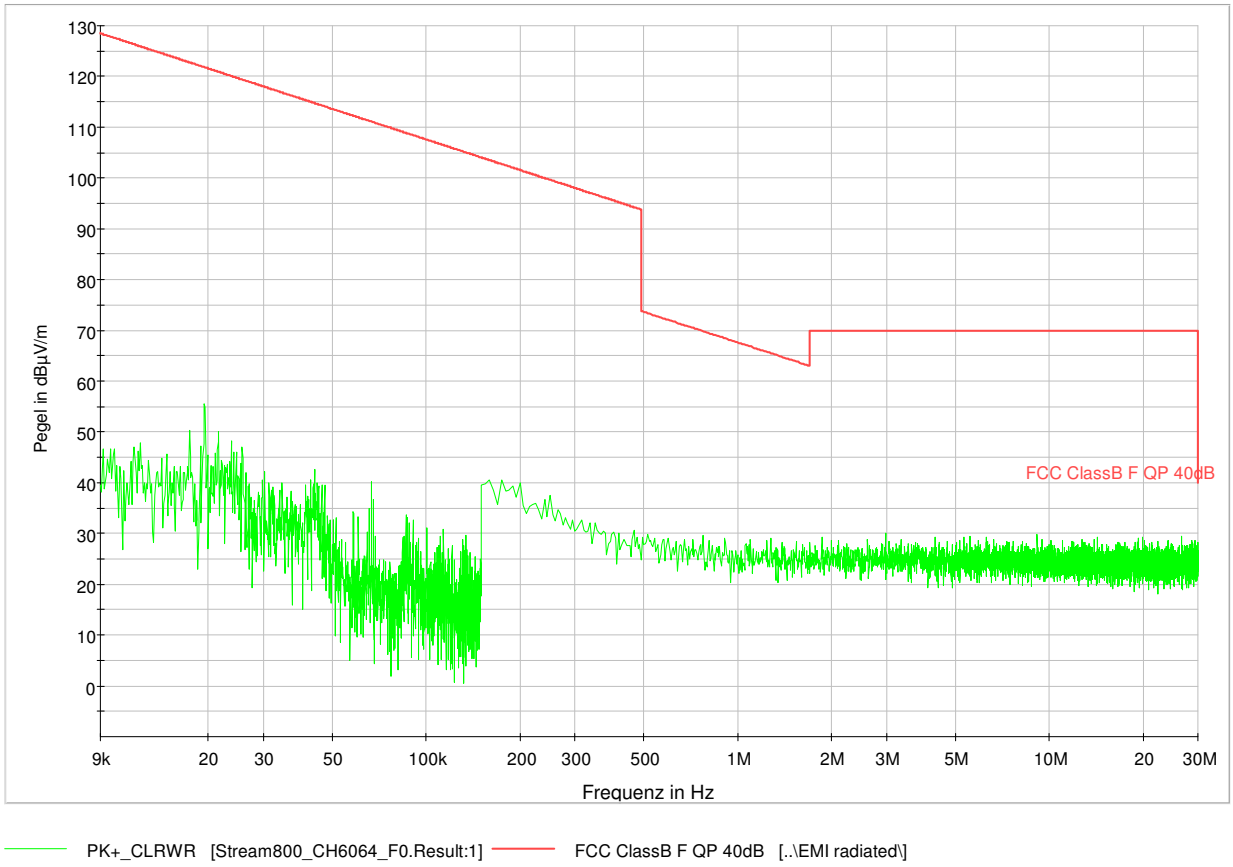
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands § 15.209(a)

Measurement with Peak-Detector:

Setup: CH 60-64: 5310 MHz



Worst case emission: 55,6 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

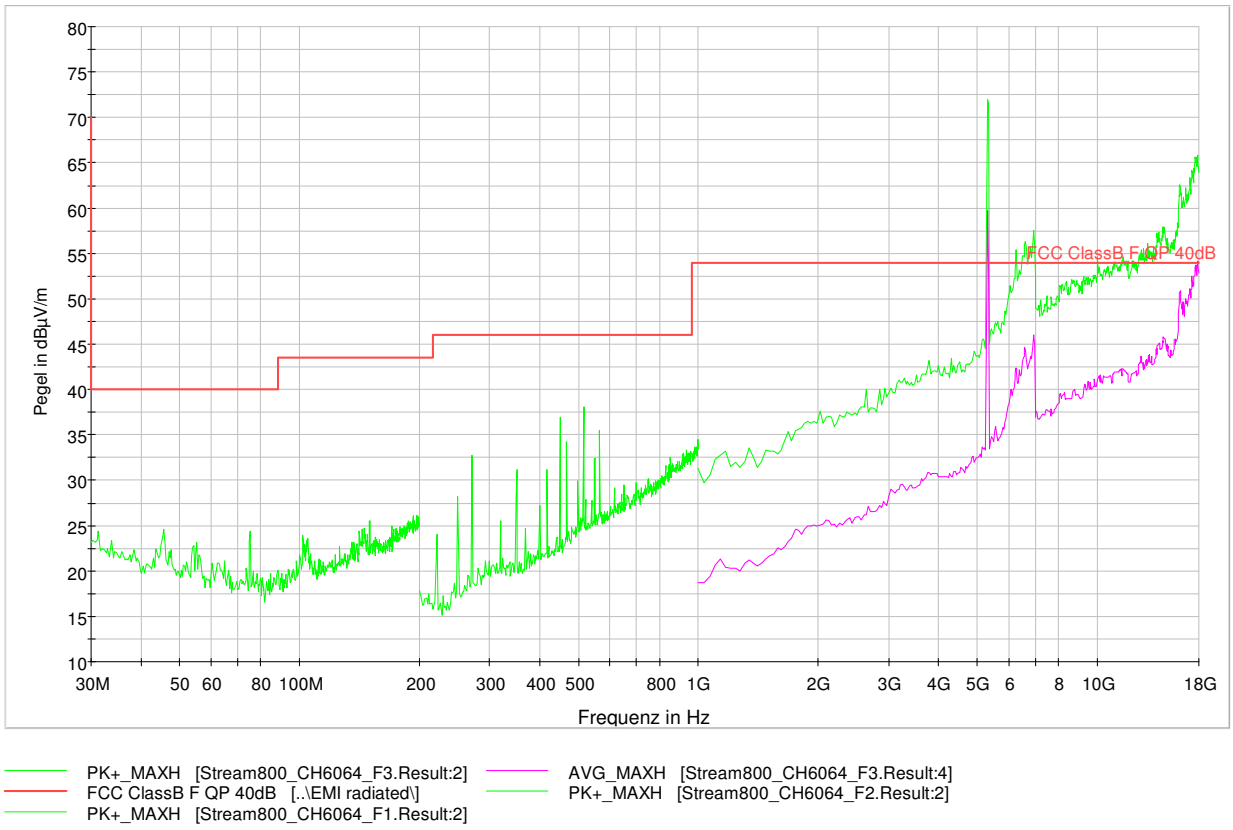
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 60-64: 5310 MHz



Worst case emission: 38,1 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

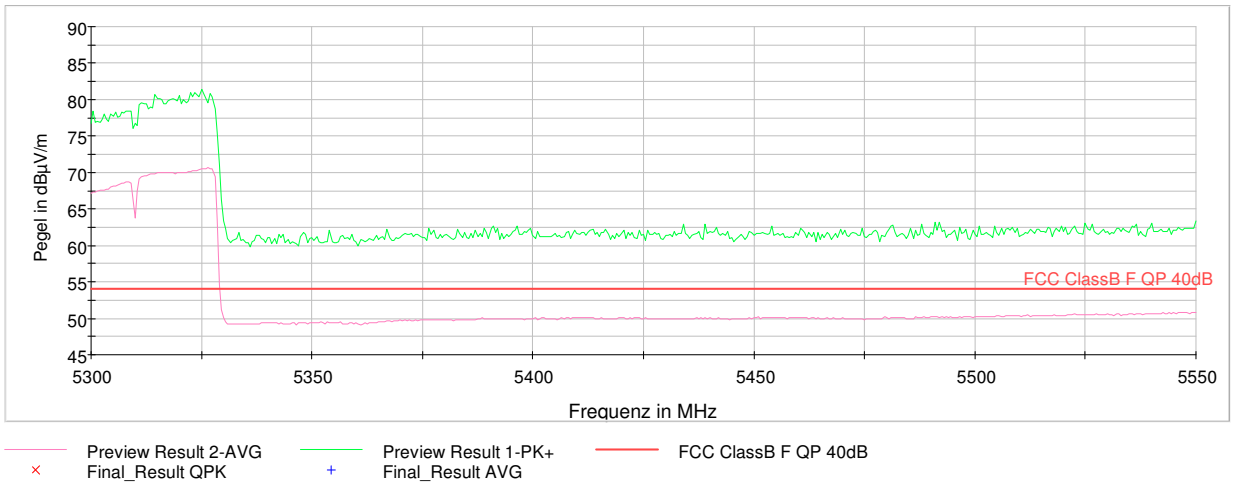
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 60-64: 5310 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5350 MHz.

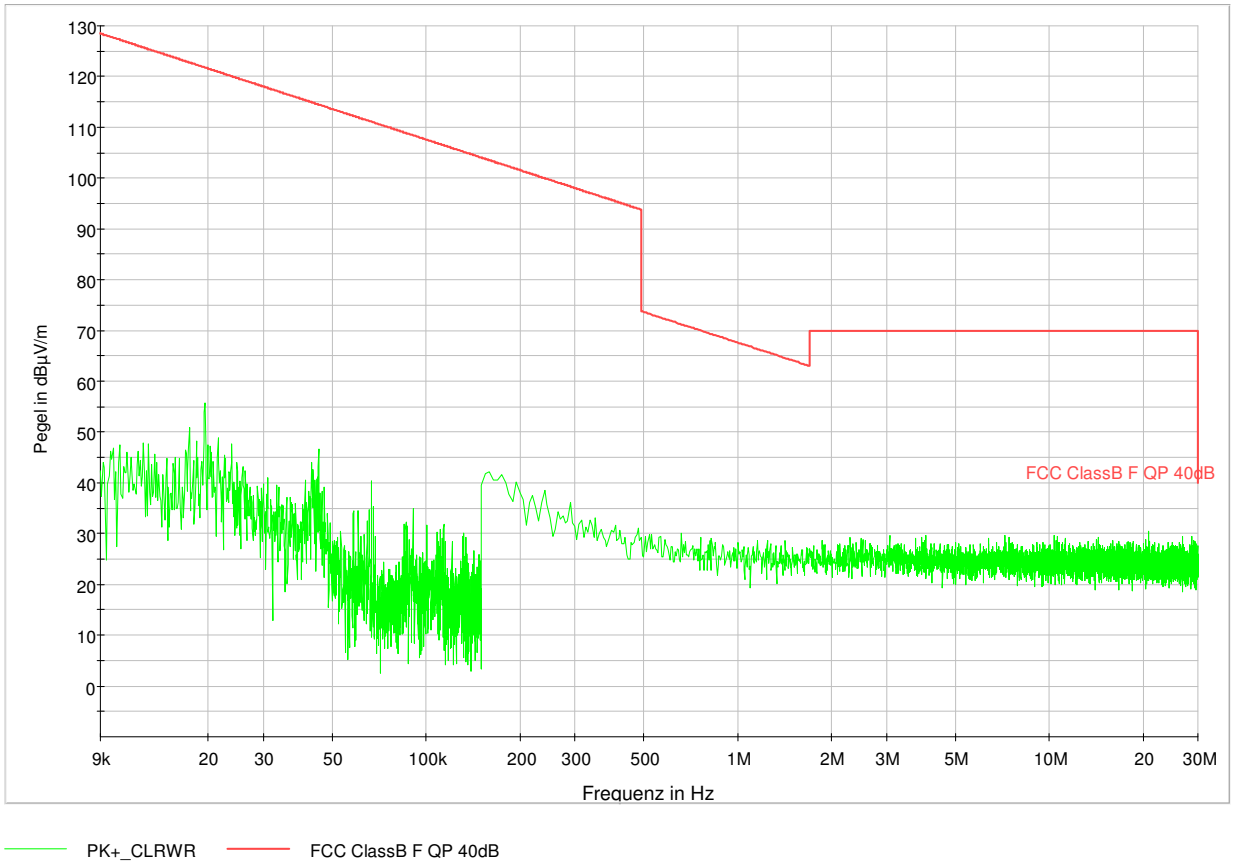
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 100: 5500 MHz



Worst case emission: 55,8 dBµV/m @ 19,5 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

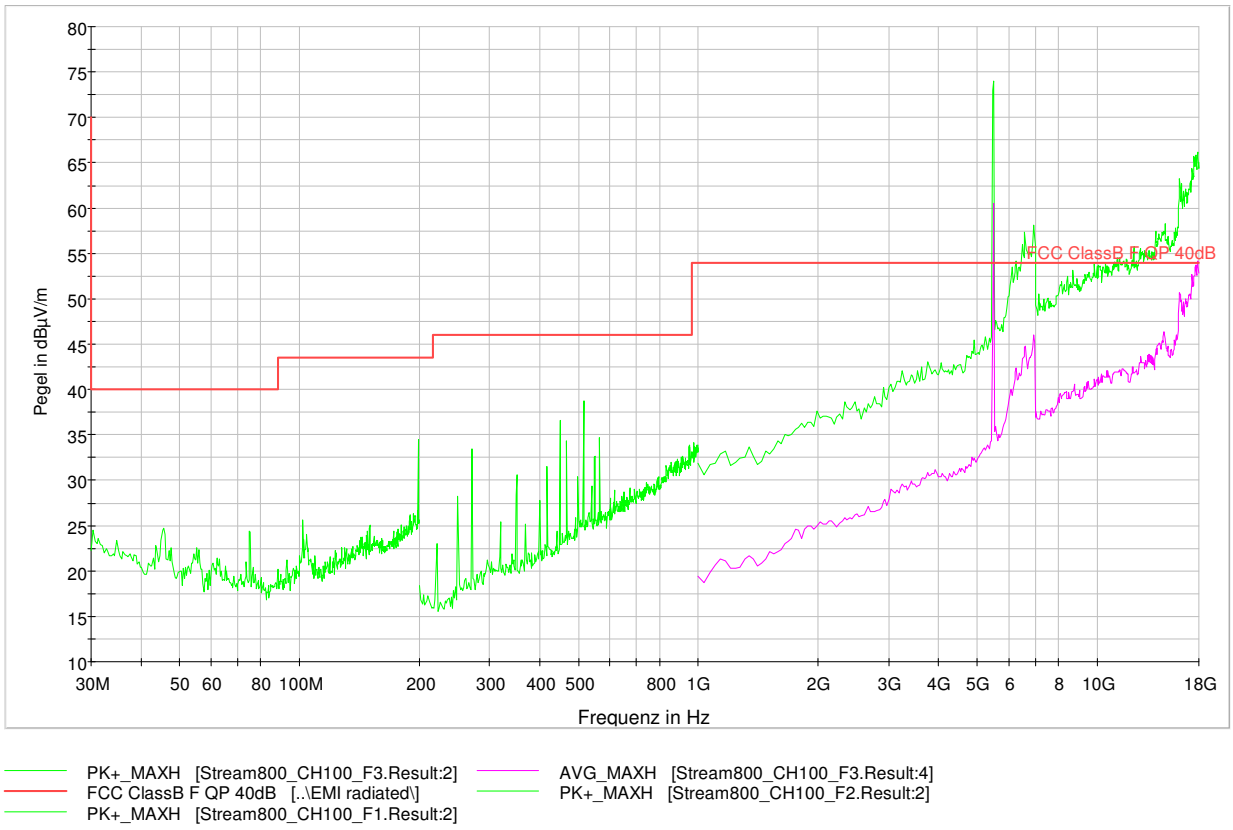
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 100: 5500 MHz



Worst case emission: 38,7 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

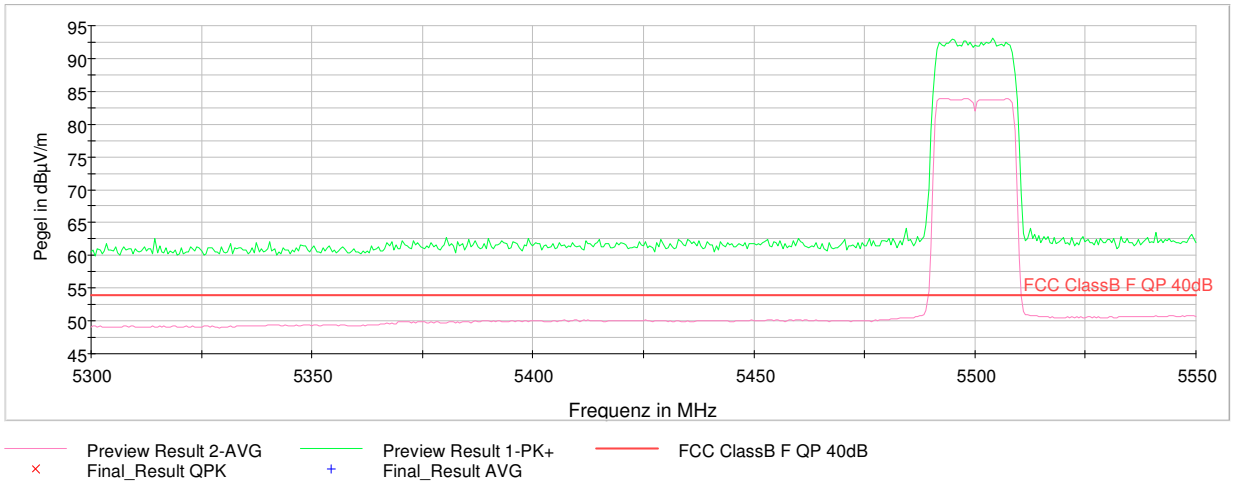
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 100: 5500 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5460 MHz.

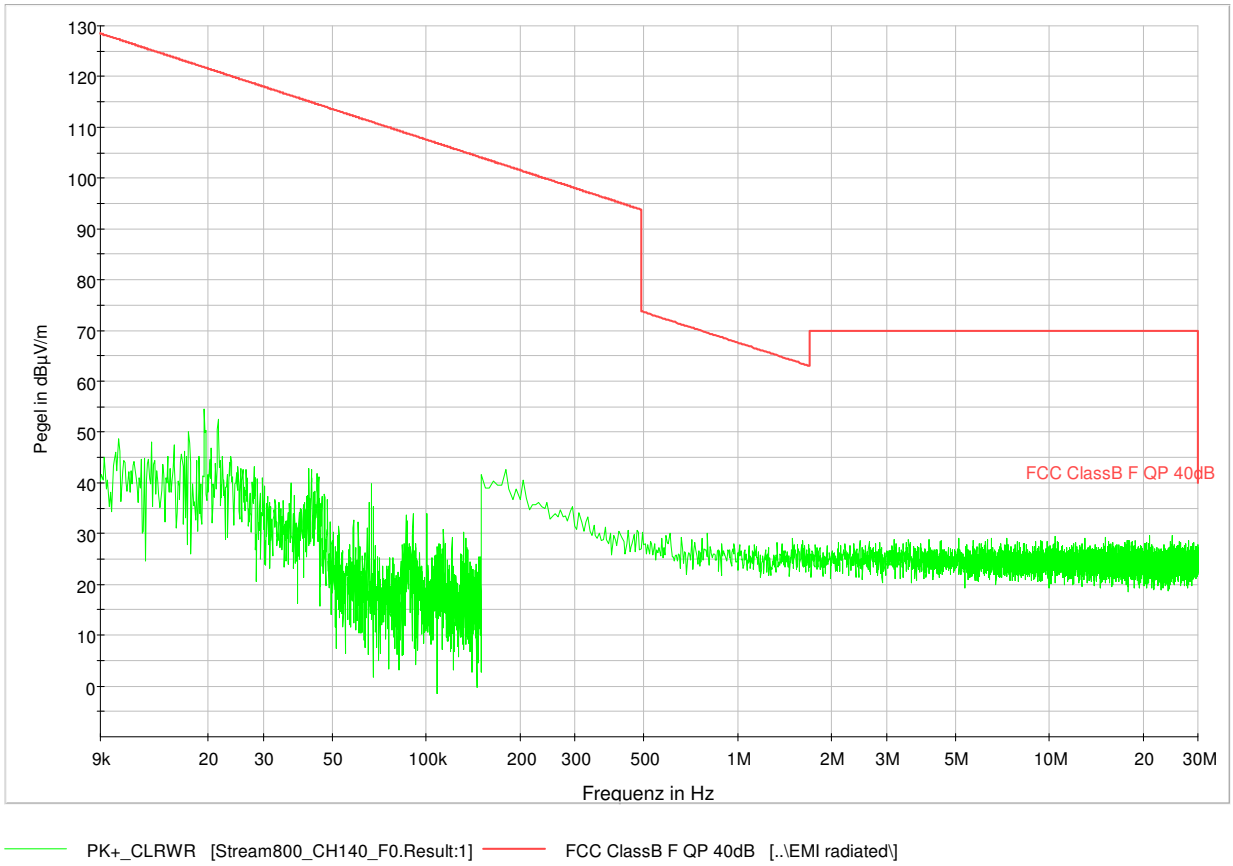
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 140: 5700 MHz



Worst case emission: 54,5 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

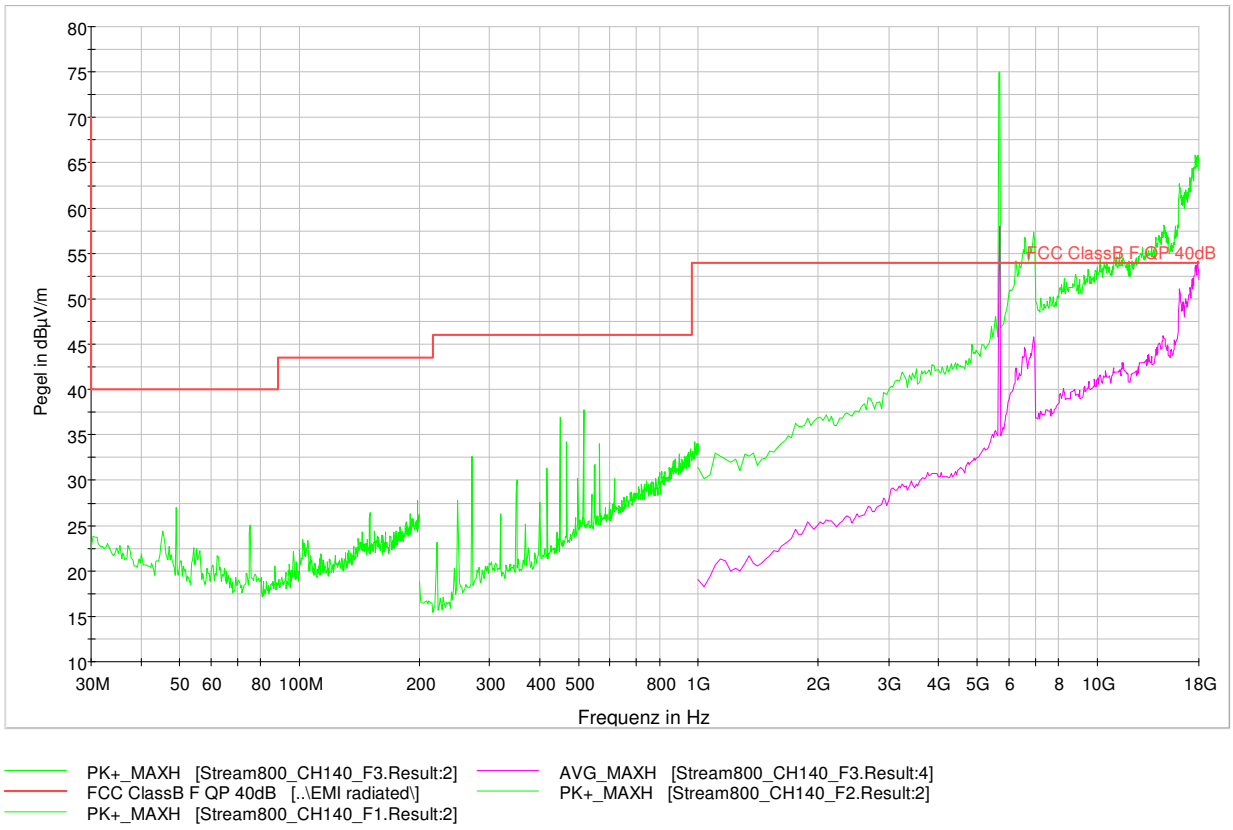
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 140: 5700 MHz



Worst case emission: 37,8 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

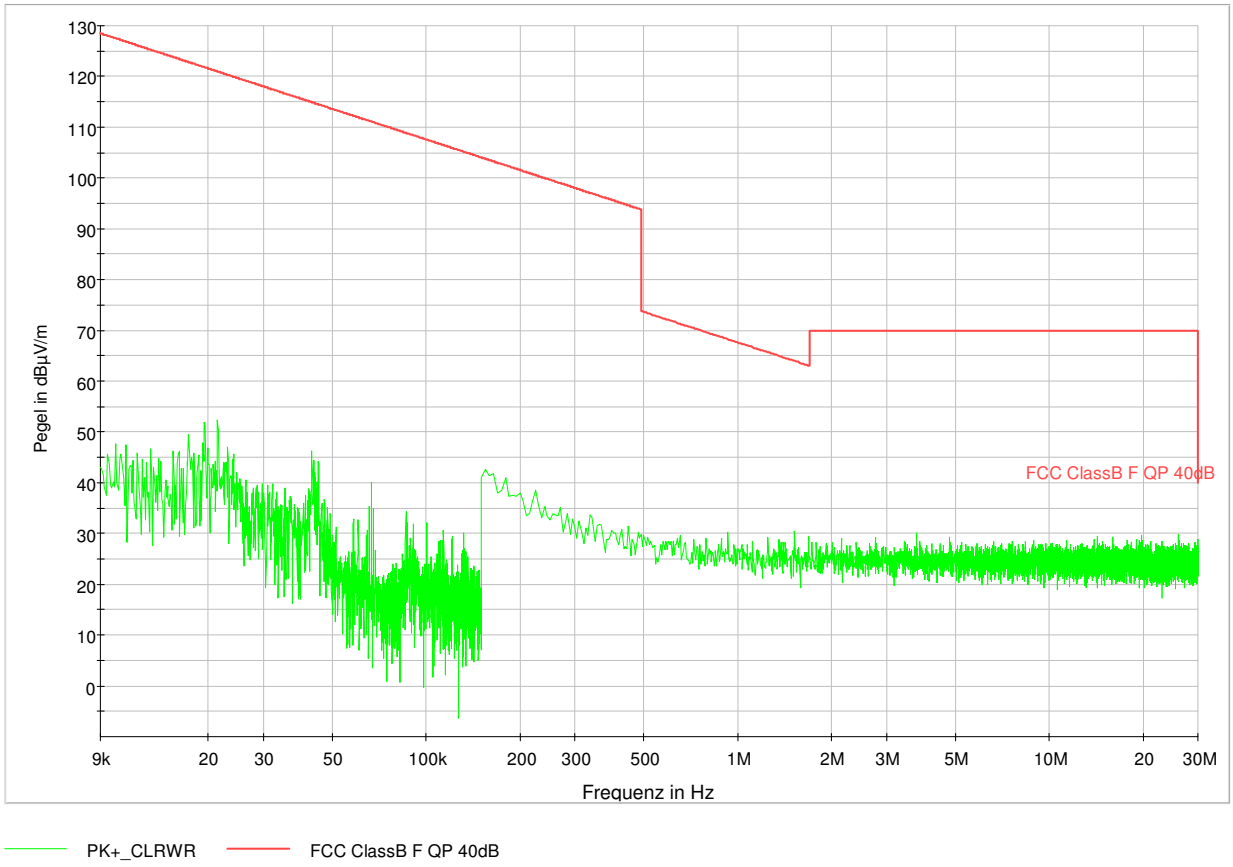
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands § 15.209(a)

Measurement with Peak-Detector:

Setup: CH 100-104: 5510 MHz



Worst case emission: 52,3 dBµV/m @ 21,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

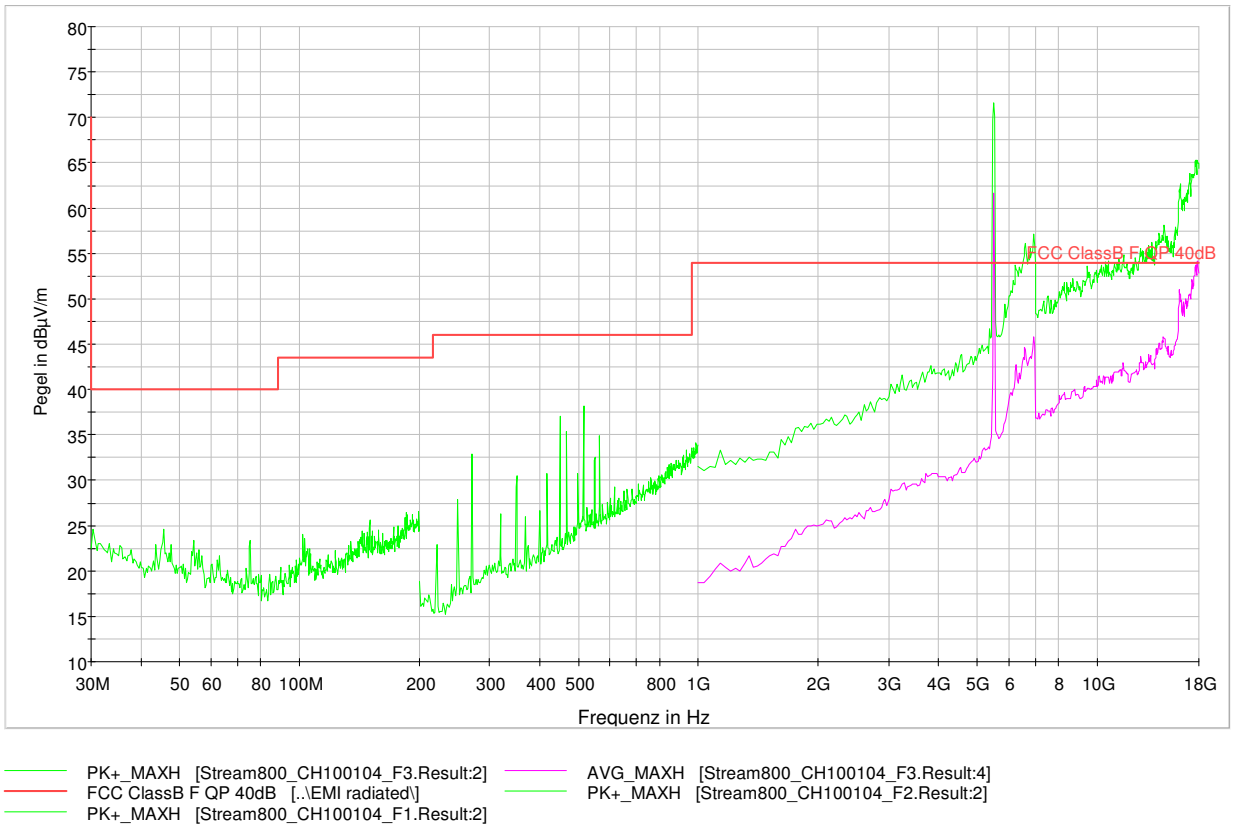
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 100-104: 5510 MHz



Worst case emission: 38,2 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

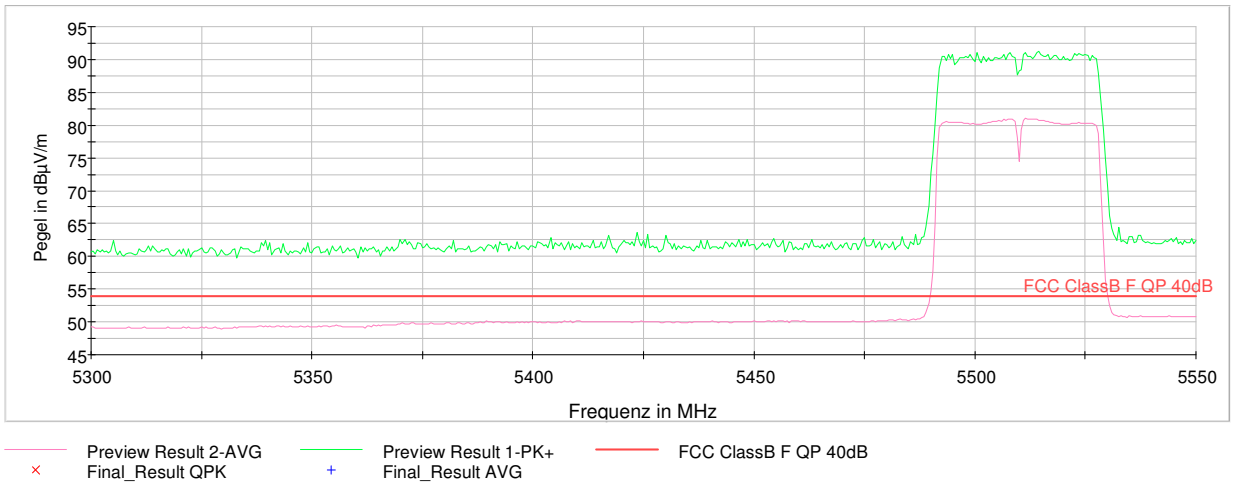
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line): Band Edge requirement

Setup: CH 100-104: 5510 MHz



LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edge of the nearest restricted band: 5460 MHz.

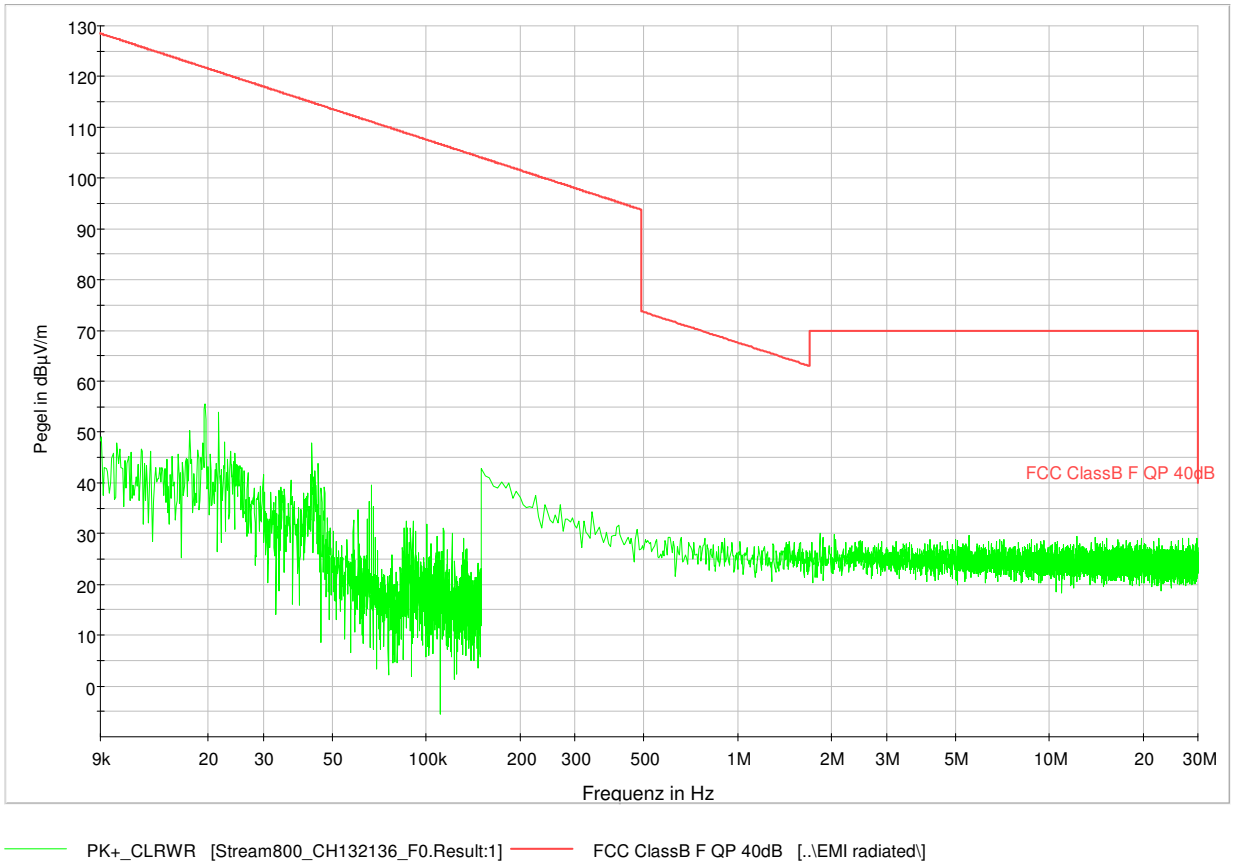
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-139; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 132-136: 5670 MHz



Worst case emission: 55,5 dBµV/m @ 19,5 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

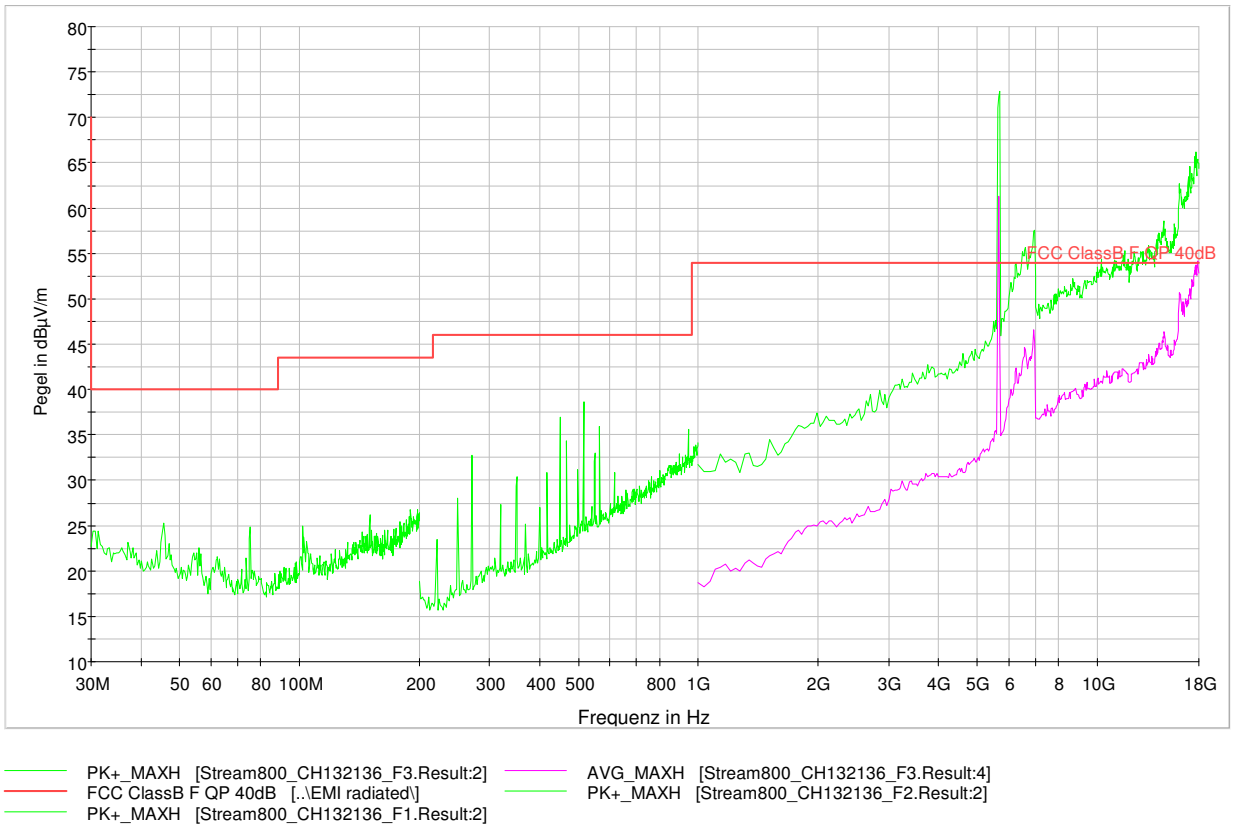
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 132-136: 5670 MHz



Worst case emission: 38,7 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

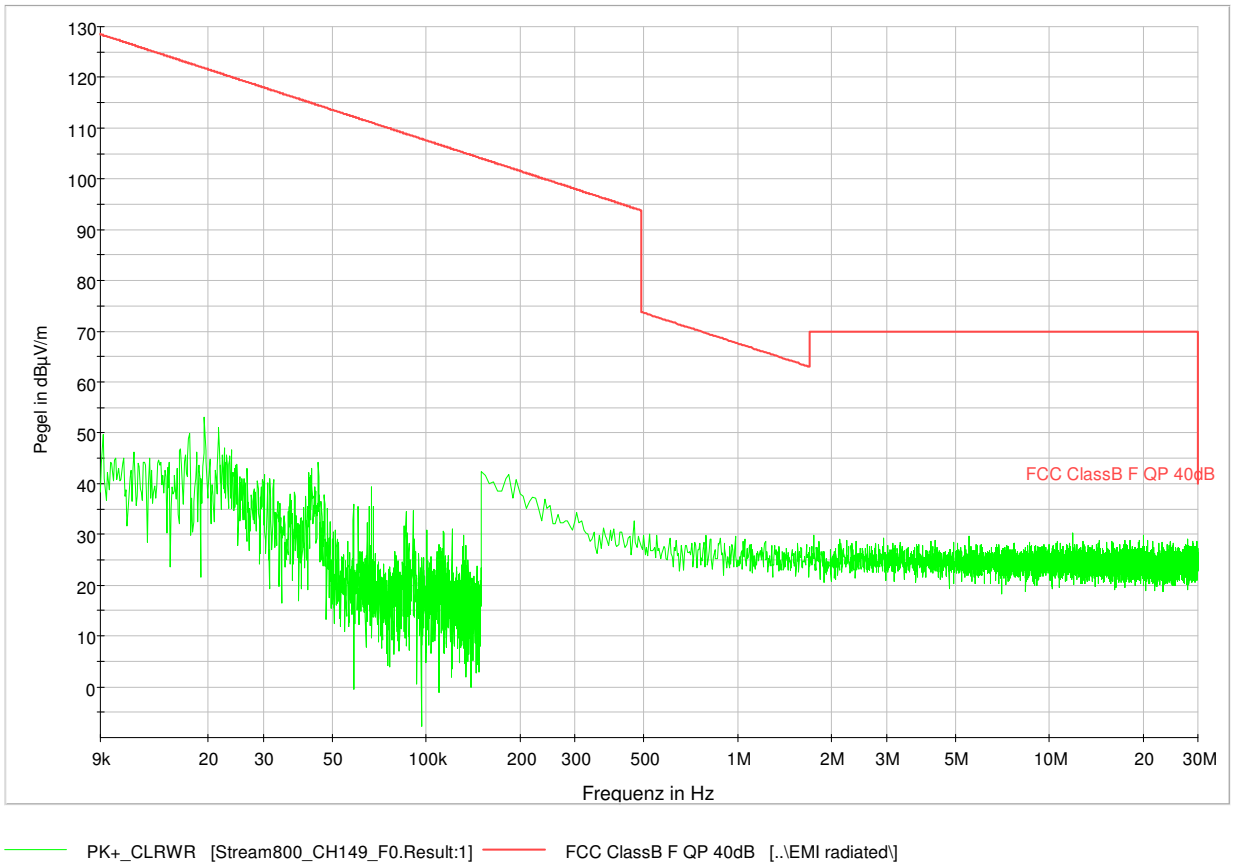
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 149: 5745 MHz



Worst case emission: 53,1 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

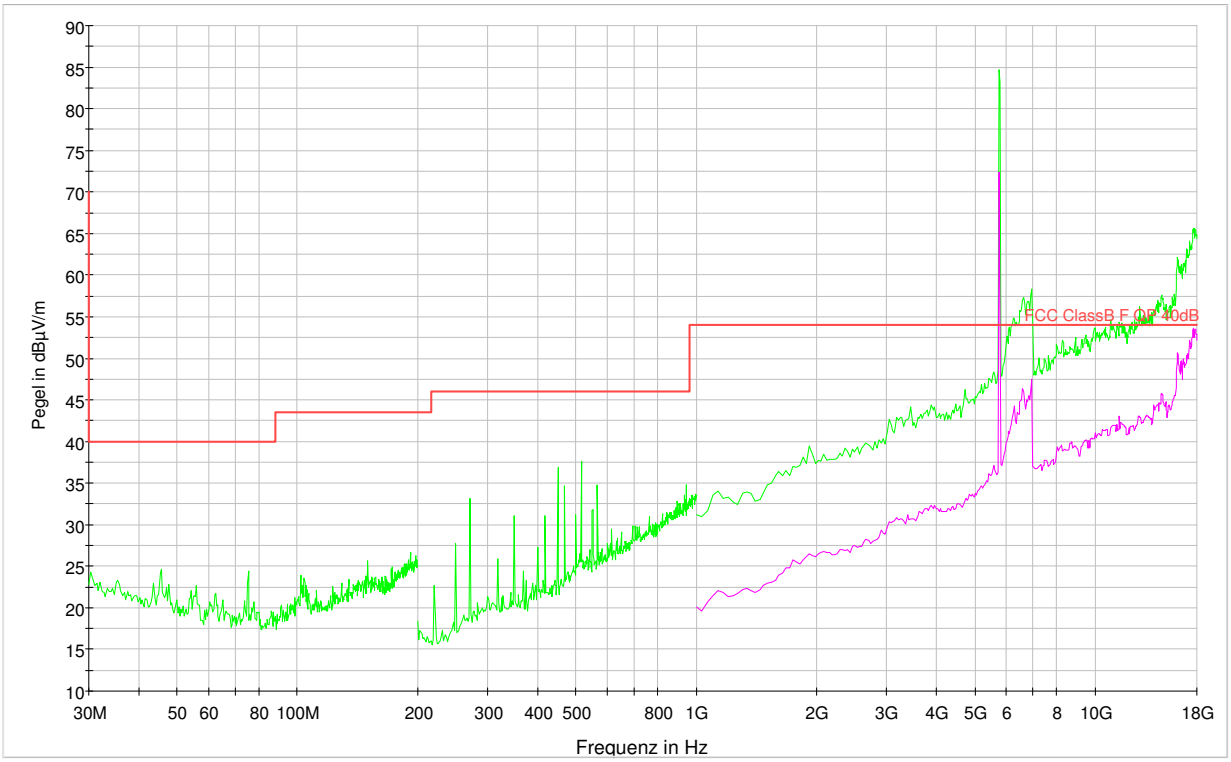
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 149: 5745 MHz



PK+_MAXH [Stream800_CH149_F1.Result:2]
AVG_MAXH [Stream800_CH149_F3.Result:4]
FCC ClassB F QP 40dB [..\EMI radiated\]
PK+_MAXH [Stream800_CH149_F3.Result:2]
PK+_MAXH [Stream800_CH149_F2.Result:2]

Worst case emission: 37,6 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

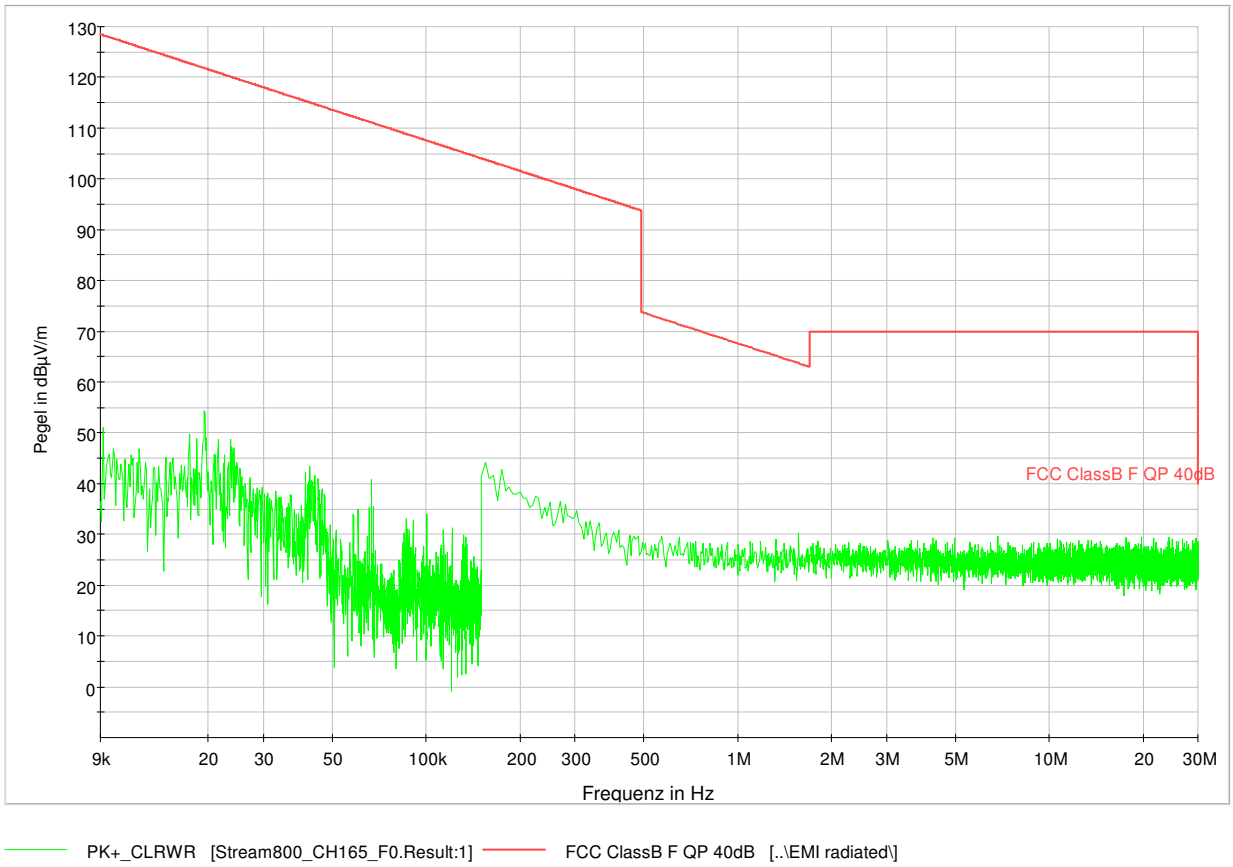
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 165: 5825 MHz



Worst case emission: 54,3 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

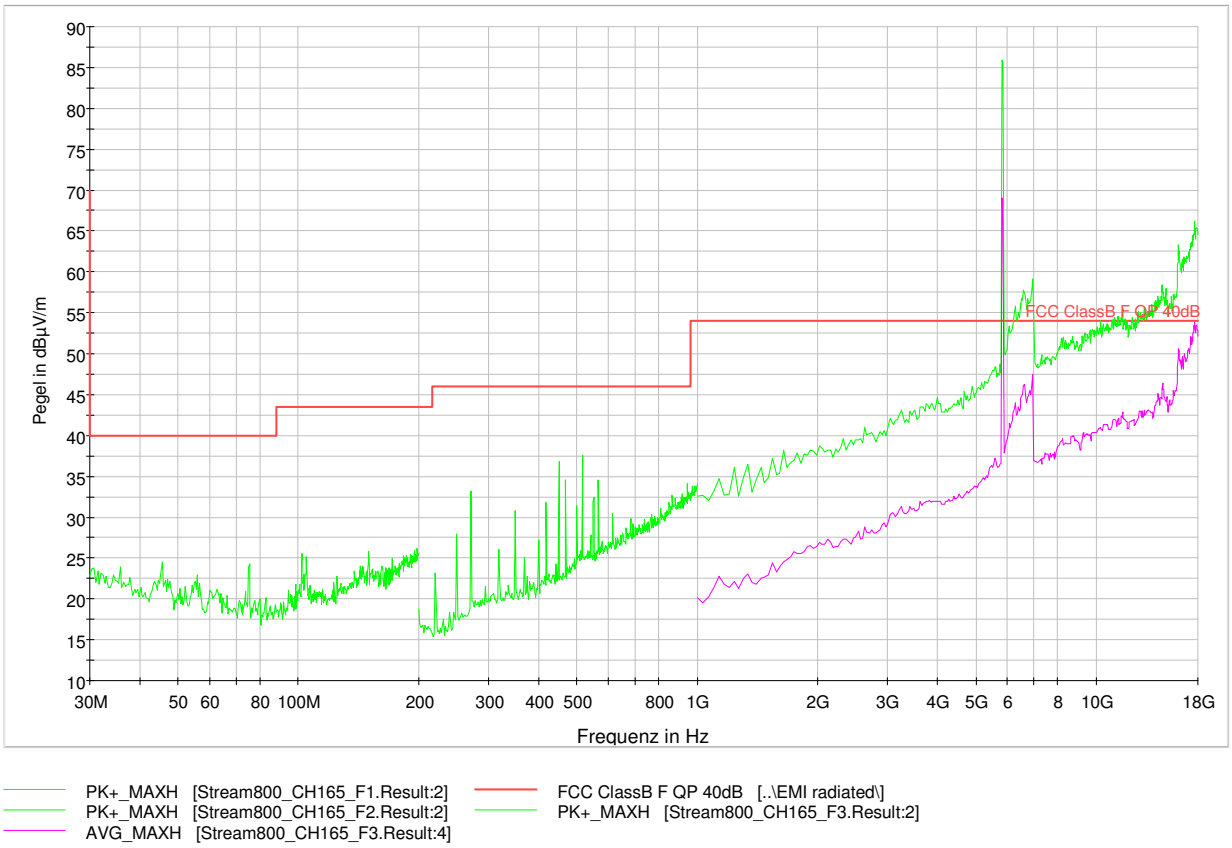
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 165: 5825 MHz



Worst case emission: 37,6 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

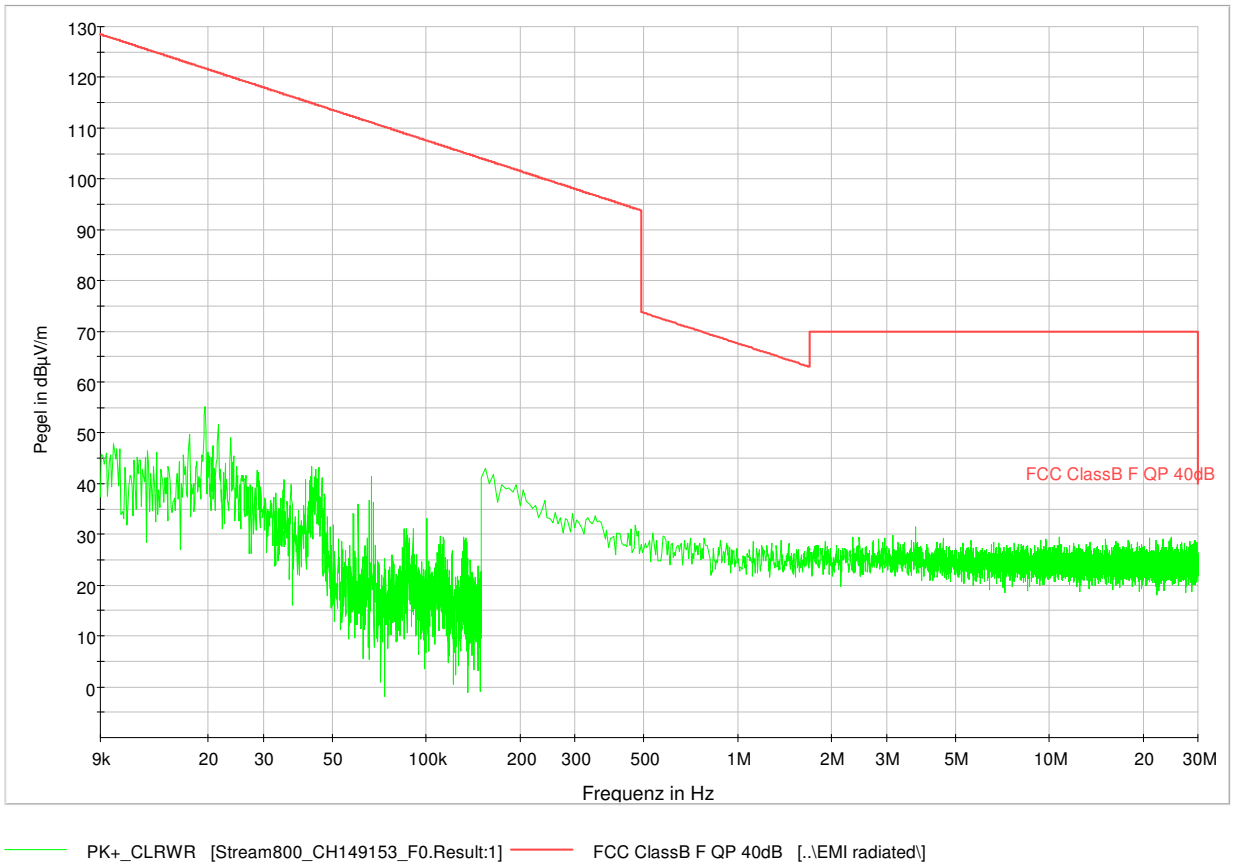
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 149-153: 5755 MHz



Worst case emission: 55,2 dBµV/m @ 19,5 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

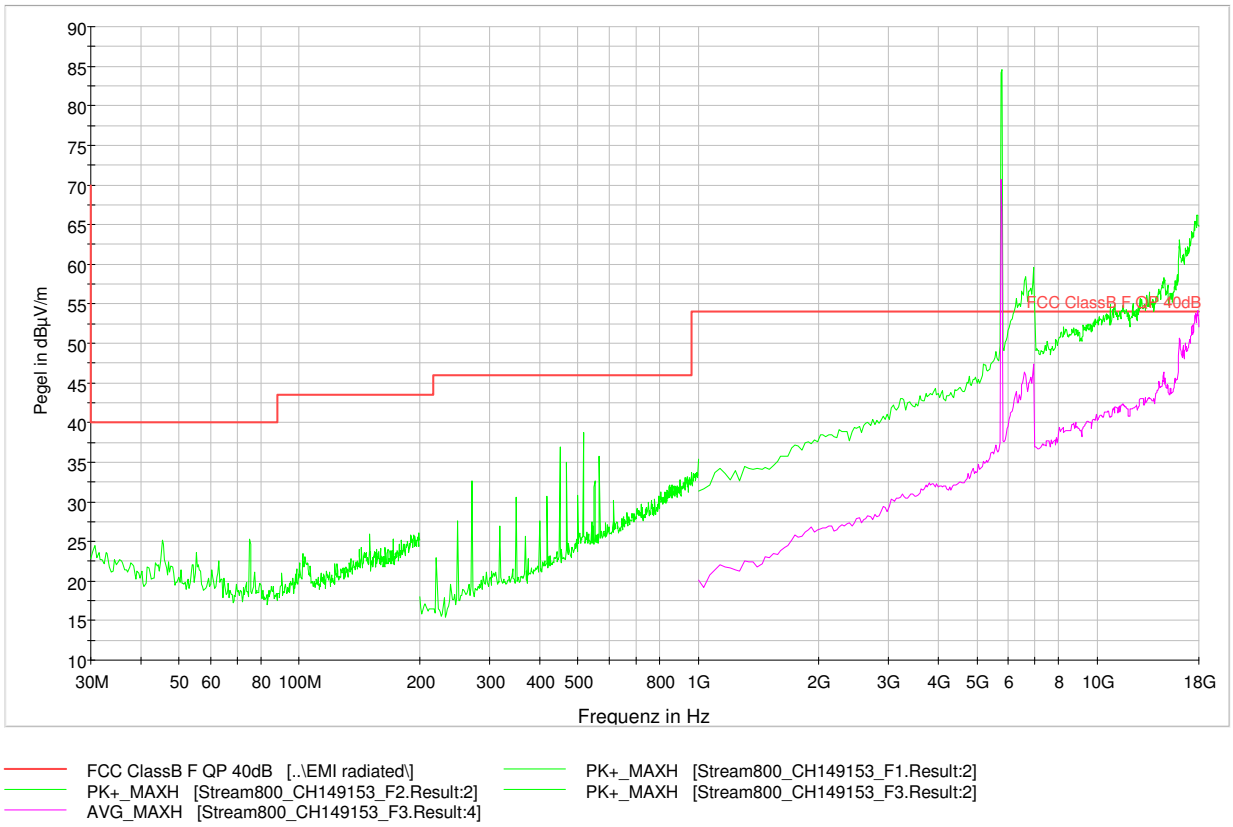
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 149-153: 5755 MHz



Worst case emission: 38,7 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

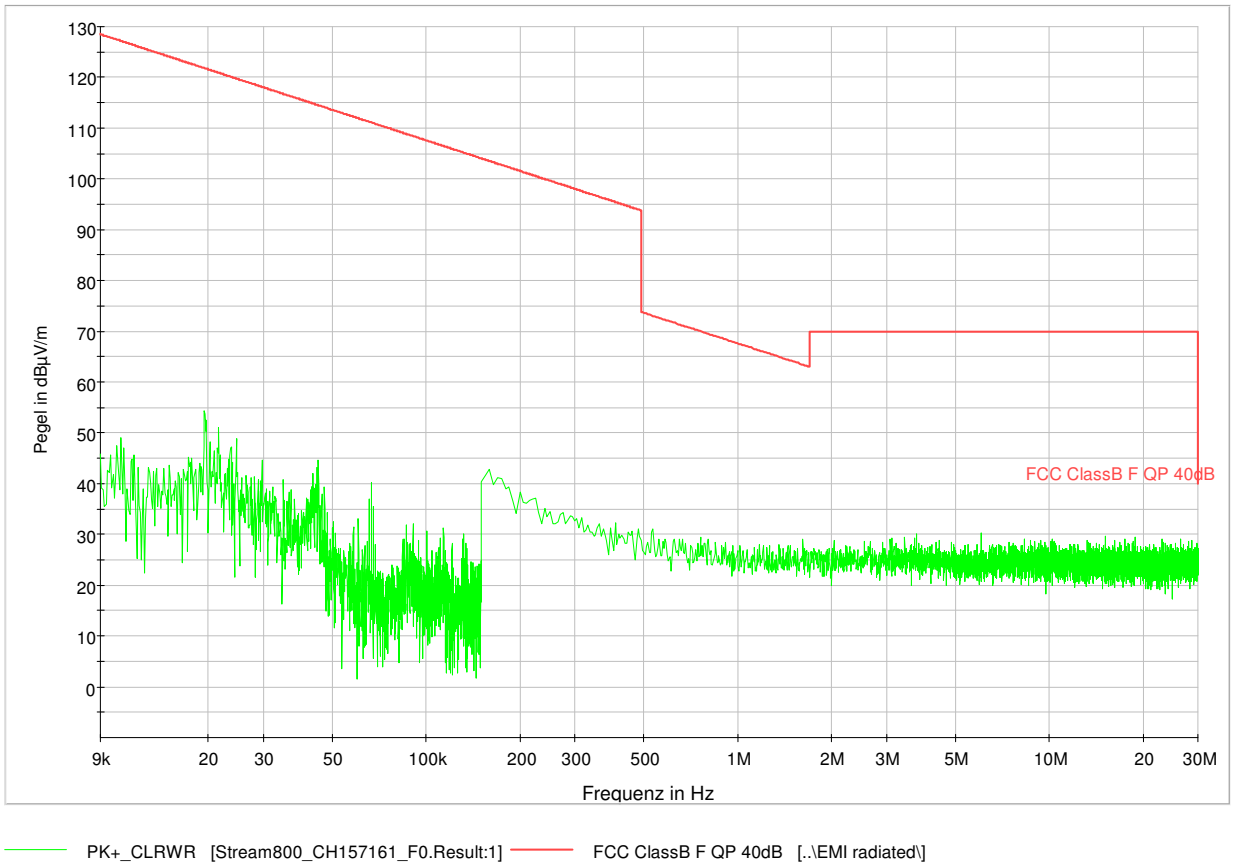
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector:

Setup: CH 157-161: 5795 MHz



Worst case emission: 54,4 dBµV/m @ 19,4 kHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

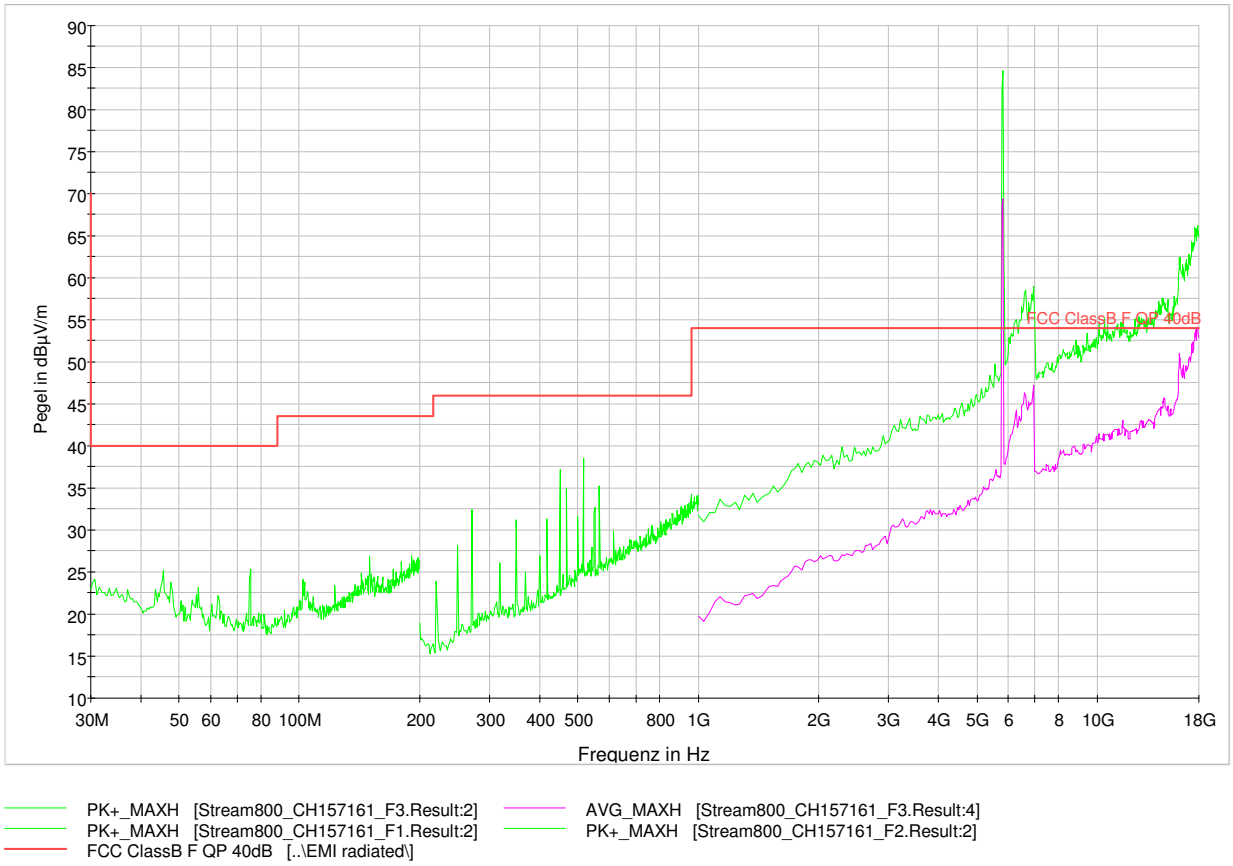
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Emissions in restriced bands **§ 15.209(a)**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 157-161: 5795 MHz



Worst case emission: 38,6 dBµV/m @ 515,8 MHz
Remark: As the highest spurious conducted emission was measured as to be -48 dBm in 1 MHz Bandwidth, all radiated measurements (except Band edges) were made with RF connector terminated with 50 ohm load. Although the measurement above ends at 18 GHz, all measurements were performed up to the thenth harmonics of the transmitter frequency.

LIMIT **SUBCLAUSE 15.209(a)**

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

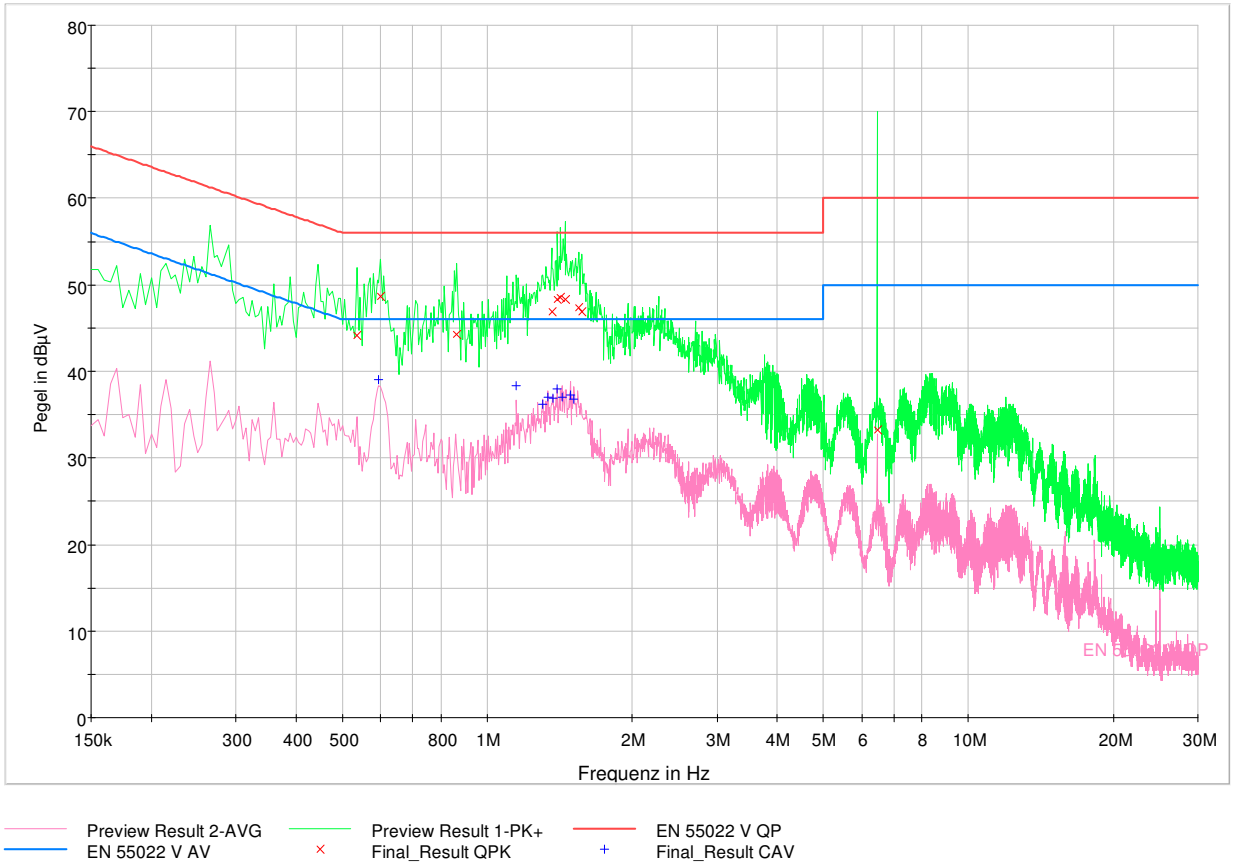
Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-126; NT-129; NT-131; NT-139; NT-207; NT-211; NT-214; NT-218; NT-337

Ambient temperature: 24°C Relative humidity: 25%

Conducted Limits **§ 15.207**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 36: 5180 MHz



LIMIT **SUBCLAUSE 15.207(a)**

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

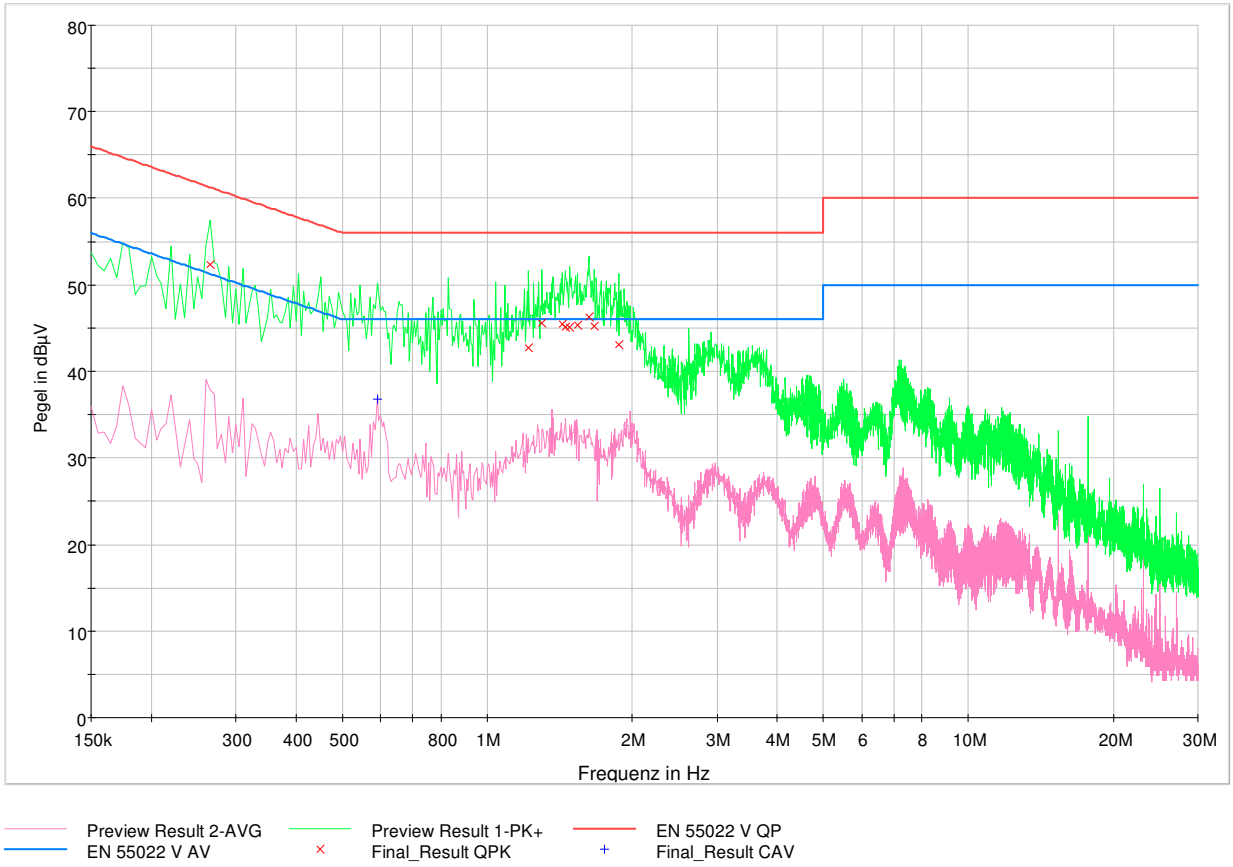
Test Equipment used: NT-300; NT-554; NT-441; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Conducted Limits **§ 15.207**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 64: 5320 MHz



LIMIT **SUBCLAUSE 15.207(a)**

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

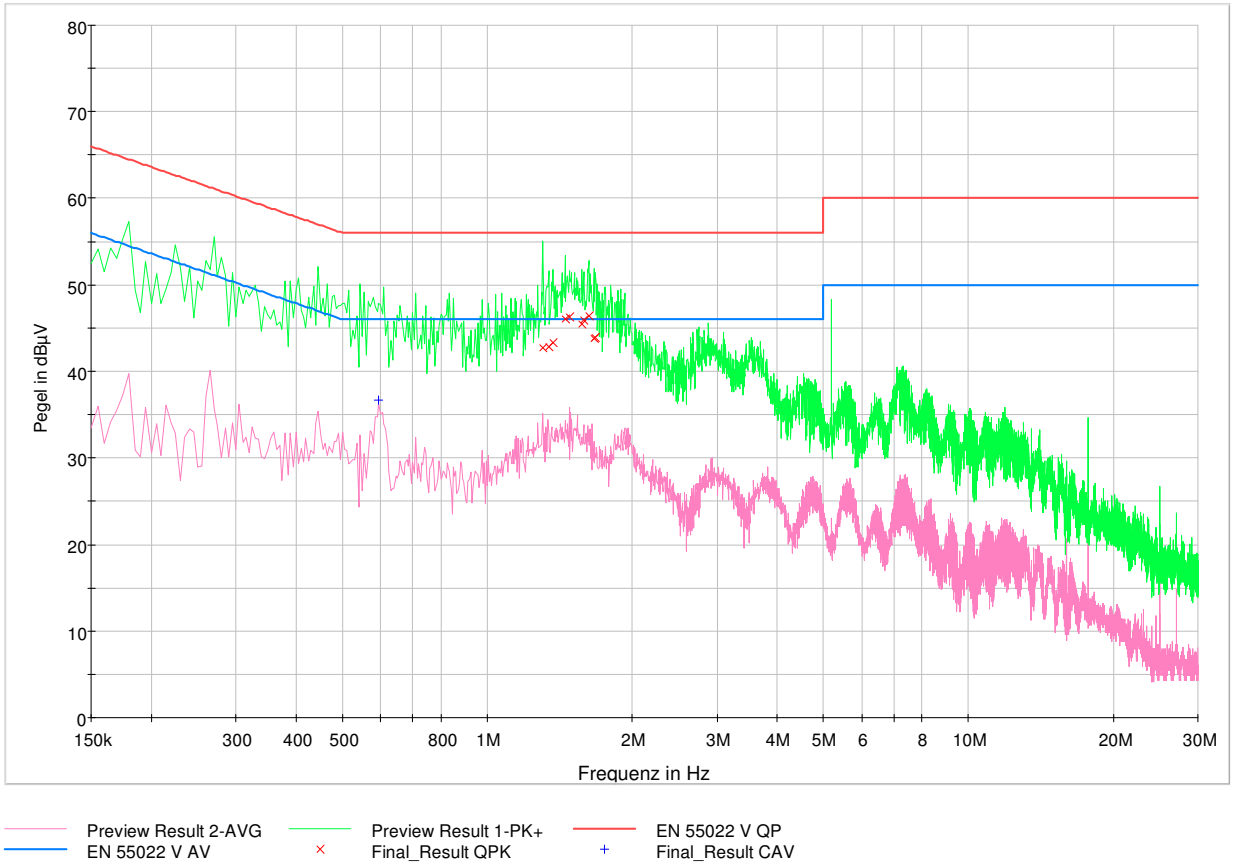
Test Equipment used: NT-300; NT-554; NT-441; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Conducted Limits **§ 15.207**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 100: 5500 MHz



LIMIT **SUBCLAUSE 15.207(a)**

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

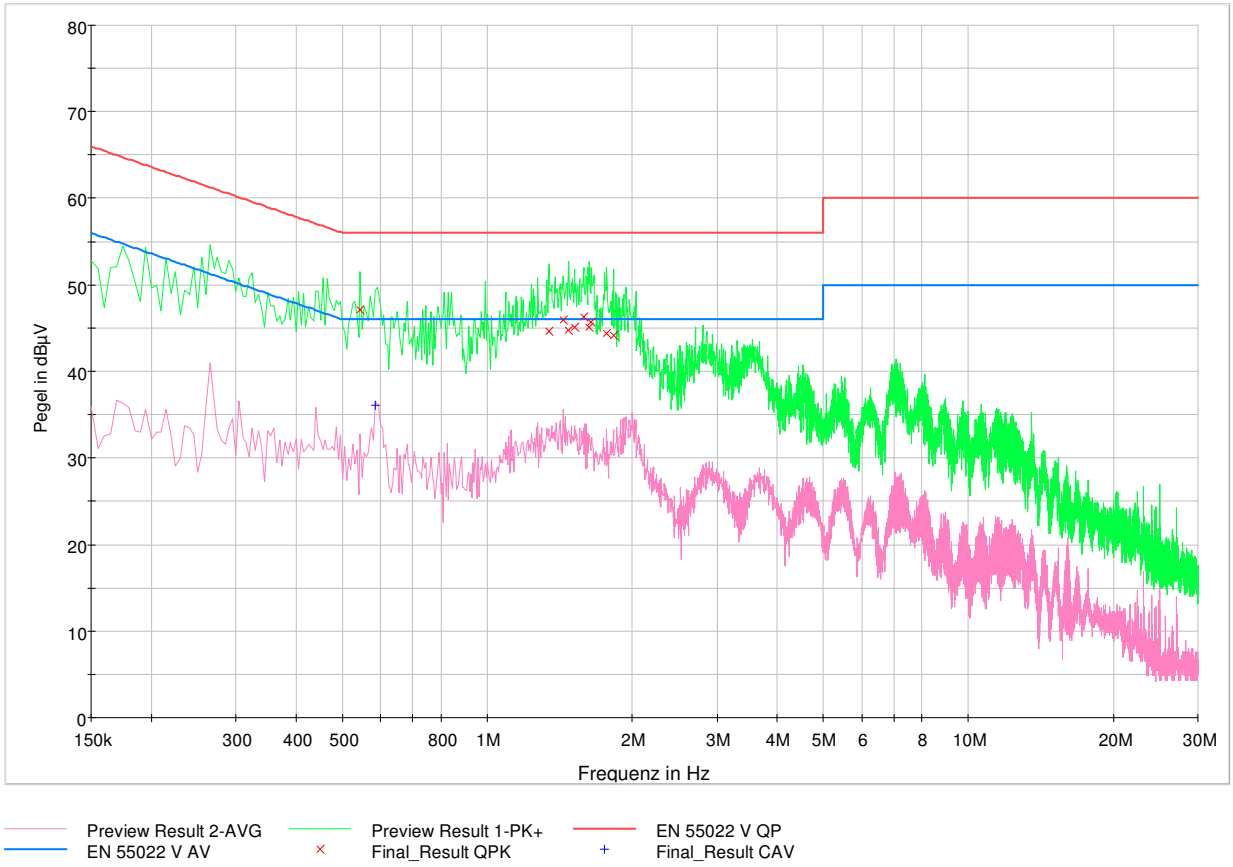
Test Equipment used: NT-300; NT-554; NT-441; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Conducted Limits **§ 15.207**

Measurement with Peak-Detector (green line) and Average detector (magenta line):

Setup: CH 165: 5825 MHz



LIMIT **SUBCLAUSE 15.207(a)**

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Test Equipment used: NT-300; NT-554; NT-441; NT-207

Ambient temperature: 24°C Relative humidity: 25%

Maximum permissible Exposure §2.1091

A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

Appendix 1
Test equipment used

TÜV AUSTRIA

Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report number: M/FG-15/138

Date: 27.03.2015

Checked by:

☐	Anechoic Chamber with 3m measurement distance	NT-100
☐	Stripline according to ISO 11452-5	NT-108
☐	MA4000 - Antenna mast 1 - 4 m height	NT-110/1
☐	DS - Turntable 0 - 400 ° Azimuth	NT-111/1
☐	CO3000 Controller Mast+Turntable	NT-112/1
☐	HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121
☐	HFH-Z2 - Loop Antenna 9 kHz - 30 MHz	NT-122
☐	HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123
☐	3121C - Dipole Antenna 28 - 1000 MHz	NT-124
☐	3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125
☐	3116 - Horn Antenna 18 - 40 GHz	NT-126
☐	SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127
☐	AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130
☐	3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131
☐	Loop Antenna H-Field	NT-132
☐	Horn Antenna 500 MHz - 2900 MHz	NT-133
☐	Horn Antenna 500 MHz - 6000 MHz	NT-133/1
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-134
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-135
☐	BiConiLog Antenna 26 MHz – 2000 MHz	NT-137
☐	Conical Dipol Antenna PCD8250	NT-138
☐	HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139
☐	HZ-1 Antenna tripod	NT-150
☐	BN 1500 Antenna tripod	NT-151
☐	Ant. tripod for EN61000-4-3 Model TP1000A	NT-156
☐	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173
☐	Spectrumanalyzer – FSP7 9 kHz – 7 GHz	NT-200
☐	ESCI - Test receiver 9 kHz - 7 GHz	NT-203/1
☐	ESI26 – Test receiver 20 Hz – 26,5 GHz	NT-207
☐	Digital Radio Tester CTS55	NT-208
☐	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
☐	CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
☐	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
☐	Digital Radio Tester Aeroflex 3920	NT-212/1
☐	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
☐	RubiSource T&M Timing reference	NT-216
☐	Radiocommunicationanalyzer SWR 1180 MD	NT-217
☐	Mixer M19HWD 40 GHz – 60 GHz	NT-218
☐	Mixer M12HWD 60 GHz – 90 GHz	NT-219
☐	DSO9104 Digital scope	NT-220/1
☐	TPS 2014 Digital scope	NT-222
☐	Artificial Ear according to IEC 60318	NT-224
☐	1 kHz Sound calibrator	NT-225
☐	B10 - Harmonics and flicker analyzer	NT-232
☐	ARS 16/3 – Harmonics- flicker analyzer	NT-232/1
☐	SRM-3000 Spectrumanalyzer	NT-233
☐	SRM-3006 Spectrumanalyzer	NT-233/1a
☐	E-field probe SRM 75 MHz – 3 GHz	NT-234
☐	Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-d
☐	Hall-Teslameter ETM-1	NT-241
☐	EFA-3 H-field- / E-field probe	NT-243
☐	Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐	E-field probe 100 kHz – 3 GHz	NT-245
☐	H-field probe 300 kHz – 30 MHz	NT-246

Appendix 1 (continued)
Test equipment used

TÜV AUSTRIA

☐	E-field probe 3 MHz – 18 GHz	NT-247
☐	H-field probe 27 MHz – 1 GHz	NT-248
☐	ELT-400 1 Hz – 400 kHz	NT-249
☐	MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250
☐	FCC-203I EM Injection clamp	NT-251
☐	FCC-203I-DCN Ferrite decoupling network	NT-252
☐	PR50 Current Probe	NT-253
☐	i310s Current Probe	NT-254/1
☐	Fluke 87 V True RMS Multimeter	NT-260
☐	Model 2000 Digital Multimeter	NT-261
☐	Fluke 87 V Digital Multimeter	NT-262/1
☐	ESH2-Z5-U1 Artificial mains network 4x25A	NT-300
☐	ESH3-Z5-U1 Artificial mains network 2x10A	NT-301
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a
☐	PHE 4500/B Power amplifier	NT-304
☐	PAS 5000 Power amplifier	NT-304/1a
☐	EZ10 T-Artificial Network	NT-305
☐	SMG - Signal generator 0,1 - 1000 MHz	NT-310
☐	SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1
☐	RefRad Reference generator	NT-312
☐	SMP 02 Signal generator 10 MHz - 20 GHz	NT-313
☐	40 MHz Arbitrary Generator TGA1241	NT-315
☐	Artificial mains network NSLK 8127-PLC	NT-316
☐	Inrush Current Source for PAS 5000	NT-317a
☐	Control and measurement device Sycore	NT-318
☐	PEFT - Burst generator up to 4 kV	NT-320
☐	ESD 30 System up to 25 kV	NT-321
☐	PSURGE 4.1 Surge generator	NT-324
☐	IMU4000 Immunity test system	NT-325/1
☐	VCS 500-M6 Surge-Generator	NT-326
☐	Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c
☐	BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330
☐	T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331
☐	500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332
☐	AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
☐	APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐	Preamplifier 1 GHz - 4 GHz	NT-335
☐	Preamplifier for GPS MKU 152 A	NT-336
☐	Preamplifier 100 MHz – 23 GHz	NT-337
☐	DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐	2-97201 Electronic load	NT-341
☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
☐	VDS 200 Mobil-impuls-generator	NT-350
☐	LD 200 Mobil-impuls-generator	NT-351
☐	MPG 200 Mobil-Impuls-Generators	NT-352
☐	EFT 200 Mobil-impuls-generator	NT-353
☐	AN 200 S1 Artificial Network	NT-354
☐	FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐	PHE 4500 - Mains impedance network	NT-401
☐	IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐	TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐	ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐	IP 4 - Capacitive clamp (Burst)	NT-411
☐	Highpass-Filter 100 MHz – 3 GHz	NT-412
☐	Highpass-Filter 600 MHz – 4 GHz	NT-413
☐	Highpass-Filter 1250 MHz – 4 GHz	NT-414
☐	Highpass-Filter 1800 MHz – 16 GHz	NT-415

Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report number: M/FG-15/138

Date: 27.03.2015

Checked by:

Appendix 1 (continued)
Test equipment used

TÜV AUSTRIA

Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report number: M/FG-15/138

Date: 27.03.2015

Checked by:

☐	Highpass-Filter 3500 MHz – 18 GHz	NT-416
☐	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417
☐	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418
☐	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419
☐	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421
☐	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423
☐	RF-Attenuator 30 dB	NT-424
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426
☐	RF-Attenuator 6 dB	NT-428
☐	RF-Attenuator 0 dB - 81 dB	NT-429
☐	WRU 27 - Band blocking 27 MHz	NT-430
☐	WHJ450C9 AA - High pass 450 MHz	NT-431
☐	WHJ250C9 AA - High pass 250 MHz	NT-432
☐	RF-Load 150 W	NT-433
☐	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-436
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-437
☐	RF-Attenuator DC – 18 GHz 10 dB	NT-438
☐	RF-Attenuator DC – 18 GHz 20 dB	NT-439
☐	I+P 7780 Directional coupler 100 - 2000 MHz	NT-440
☐	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441
☐	Power Divider 6 dB/1 W/50 Ohm	NT-443
☐	Directional coupler 0,1 MHz – 70 MHz	NT-444
☐	Directional coupler 0,1 MHz – 70 MHz	NT-445
☐	Tube imitations according to EN 55015	NT-450
☐	FCC-801-M3-16A Coupling decoupling network	NT-458
☐	FCC-801-M2-50A Coupling decoupling network	NT-459
☐	FCC-801-M5-25 Coupling decoupling network	NT-460
☐	FCC-801-AF10 Coupling decoupling network	NT-461
☐	FCC-801-S25 Coupling decoupling network	NT-462
☐	FCC-801-T4 Coupling decoupling network	NT-463
☐	FCC-801-C1 Coupling decoupling network	NT-464
☐	F-16A - Current probe 1kHz - 70MHz	NT-465
☐	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
☐	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐	Van der Hoofden Test Head	NT-484
☐	PC P4 3 GHz Test computer	NT-500
☐	PC P4 1700 MHz Notebook	NT-505
☐	Monitoring camera with Monitor	NT-511
☐	ES-K1 Version 1.71 SP2 Test software	NT-520
☐	EMC32 Version 9.15 Test software	NT-520/1
☐	SRM-TS Version 1.3 software for SRM-3000	NT-522
☐	SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐	Spitzenberger und Spies Test software V3.4	NT-525
☐	Noise power test apparatus according to EN 55014	NT-530
☐	Vertical coupling plane (ESD)	NT-531
☐	Test cable #4 for EN 61000-4-6	NT-553
☐	Test cable #3 for conducted emission	NT-554
☐	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐	Test cable #8 Sucoflex 104EA	NT-559
☐	Test cable #9 (for outdoor measurements)	NT-580
☐	Test cable #10 (for outdoor measurements)	NT-581
☐	Test cable #13 Sucoflex 104PE	NT-584
☐	Test cable #21 for SRM-3000	NT-592
☐	Shield chamber	NT-600
☐	Climatic chamber	M-1200