



TEST REPORT

of the accredited test laboratory

TÜV Nr.:M/FG-16/136

Applicant: StreamUnlimited Engineering GmbH
High Tech Campus Vienna
Gutheil-Schoder-Gasse 10
A-1100 Vienna

Tested Product: STREAM810 Bluetooth / BLE / WIFI streaming module
Test report for Bluetooth part only

FCC-ID: 2AJYB-S810

IC-ID: 20504-S810

Manufacturer: See applicant

Output power / field strength: 38,9 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, 2015 edition)
RSS-247 Issue 1, May 2015; including modifications and
clarifications in CB Notice 2015-07

TUV Austria Services GmbH
Test laboratory for EMC

Supervisor of EMC-laboratory:


Ing. Wilhelm Seier

19.12.2016

Copy Nbr.: 

checked by:



Ing. Michael Emminger

A publication of this test report is only permitted literally.
Copying or reproduction of partial sections needs a written permission of
TUV Austria Services GmbH.

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

LIST OF MEASUREMENTS

The complete list of measurements called for in 47 CFR 15 and RSS-247 is given below.

SUBCLAUSE	PARAMETER TO BE MEASURED	PAGE
	Intentional Radiators	
	Test object data	3
2.1033	Number of channels and channel spacing	4
15.407(e) 6.2.4 (1)	6 dB Bandwidth	5-14
15.407 6.2.1 (2)	26 dB Bandwidth	15-56
6.2.1 (1)	99% Bandwidth	57-88
6.2.2 (1)		
6.2.3 (1)		
6.2.4 (1)		
15.407(a)(1)(iv) 15.407(a)(2) 15.407(a)(3) 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1)	Maximum Conducted Output Power	89-96
15.407(a)(1)(iv) 15.407(a)(2) 15.407(a)(3) 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1)	Maximum Power Spectral Density	97-138
15.407(b) 6.2.1 (2) 6.2.2 (2) 6.2.3 (2) 6.2.4 (2)	Undesirable Emission Limits	139-180
15.209(a) RSS-Gen	Emissions in restricted bands	181-210
15.207 RSS-Gen 8.8	Conducted Limits	211-213
2.1091	Maximum permissible exposure	214

TEST OBJECT DATA

General EUT Description

This Bluetooth / BLE / WIFI module is using either 2.4 GHz frequencies or 5 GHz (WIFI only). This test report is only for the 5 GHz WIFI part. See additional test reports:

M/FG-16/133 for Bluetooth

M/FG-16/134 for BLE and

M/FG-16/135 for 2,4 GHz WIFI measurement results.

2.1033 (c) Technical description

2.1033 (4) Type of emission:

802.11 standards – Channel bandwidths 20 MHz, 40 MHz (aggregation of 2 non-overlapping 20 MHz OFDM channels) or 80 MHz (aggregation of 4 non-overlapping 20 MHz OFDM channels) – Channel spacing 20 / 40 / 80 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
5210 / 5290 / 5530 / 5690 / 5775 MHz (channel center frequencies with 80 MHz channel bandwidth) giving a total number of five 80MHz-Channels

2.1033 (6) Power range and Controls: The maximum peak output power is 38,9 mW and there is no power regulation.

2.1033 (7) Maximum output power rating: 38,9 mW.

2.1033 (8) DC Voltage and Current: 5 V DC

maximum current consumption: 300 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

Antennas used for all radiated measurements: 'STANDARD WLAN 1000391'

Tests were performed December 2nd till 14th 2016.

Number of channels and channel spacing

§ 2.1033

Conducted Measurement

Rated output power: 38,9 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.

4 channels spaced by 20 MHz can be used simultaneously to give a RF-Bandwidth of 80 MHz, resulting in 5 different channels with 80 MHz bandwidth and center frequencies of 5210 till 5775 MHz each separated by 80 MHz channel spacing.

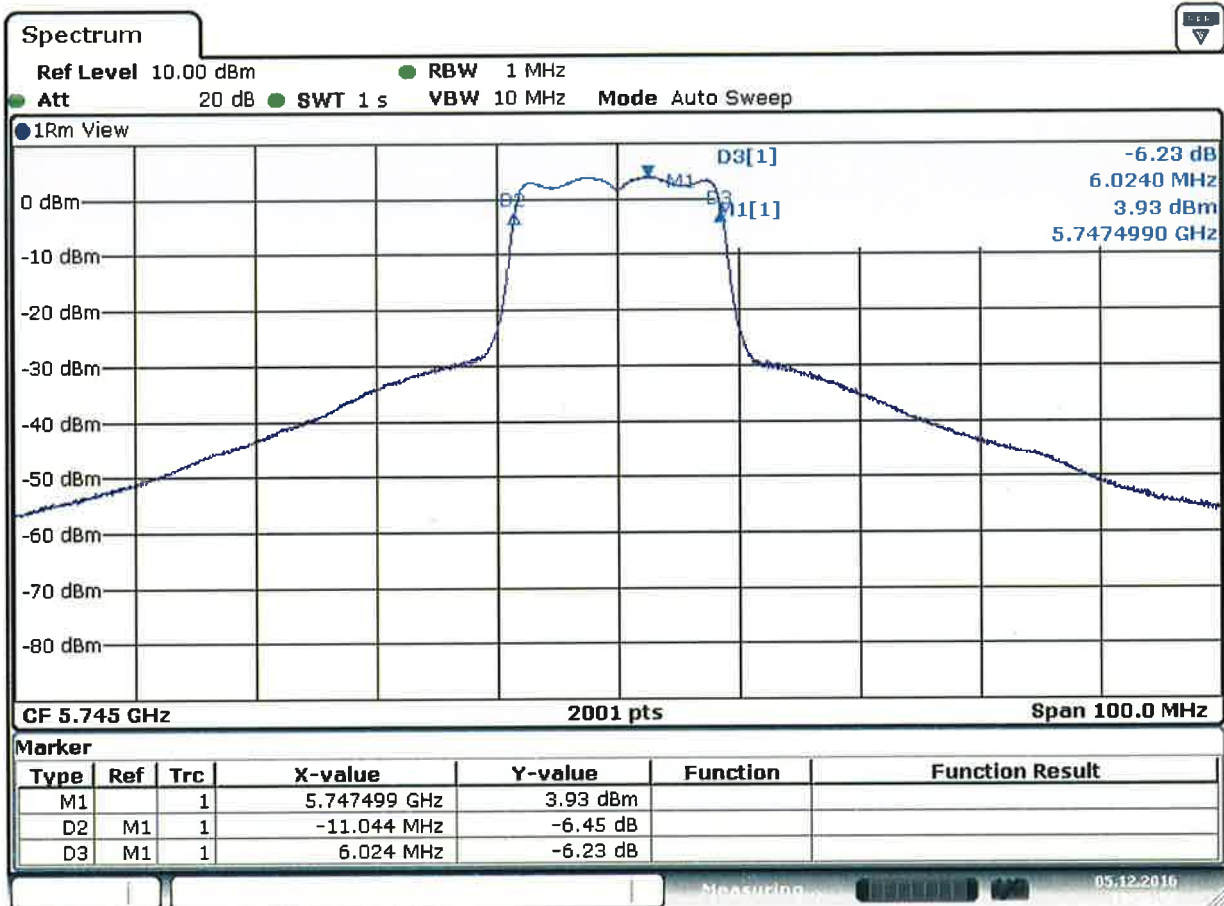
Test Equipment used: N/A

6dB Bandwidth

§ 15.407(e)
6.2.4 (1)

Conducted Measurement

Rated output power: 38,9 mW Channel 149 (5745 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:56:52

6dB Bandwidth: 17,068 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

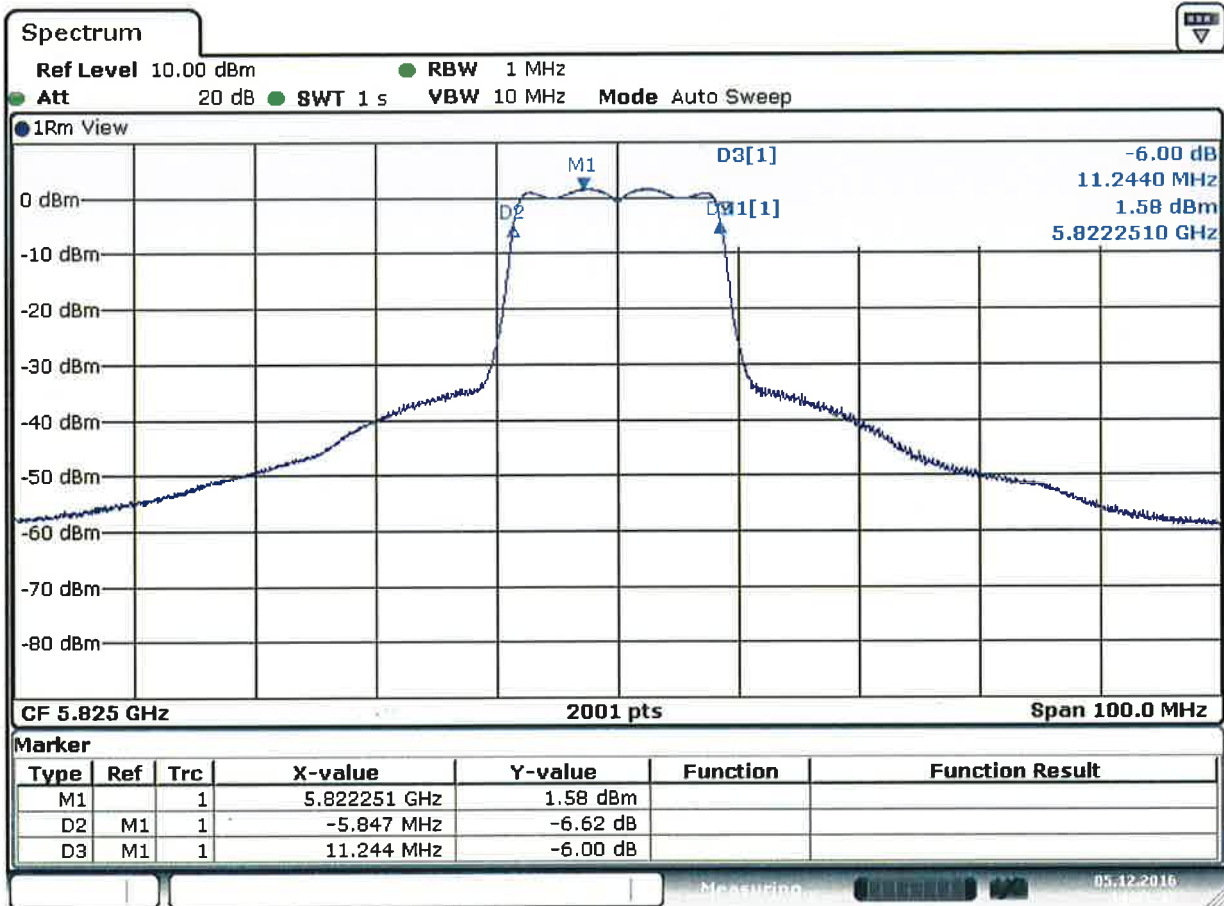
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 165 (5825 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:01:38

6dB Bandwidth: 17,091 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

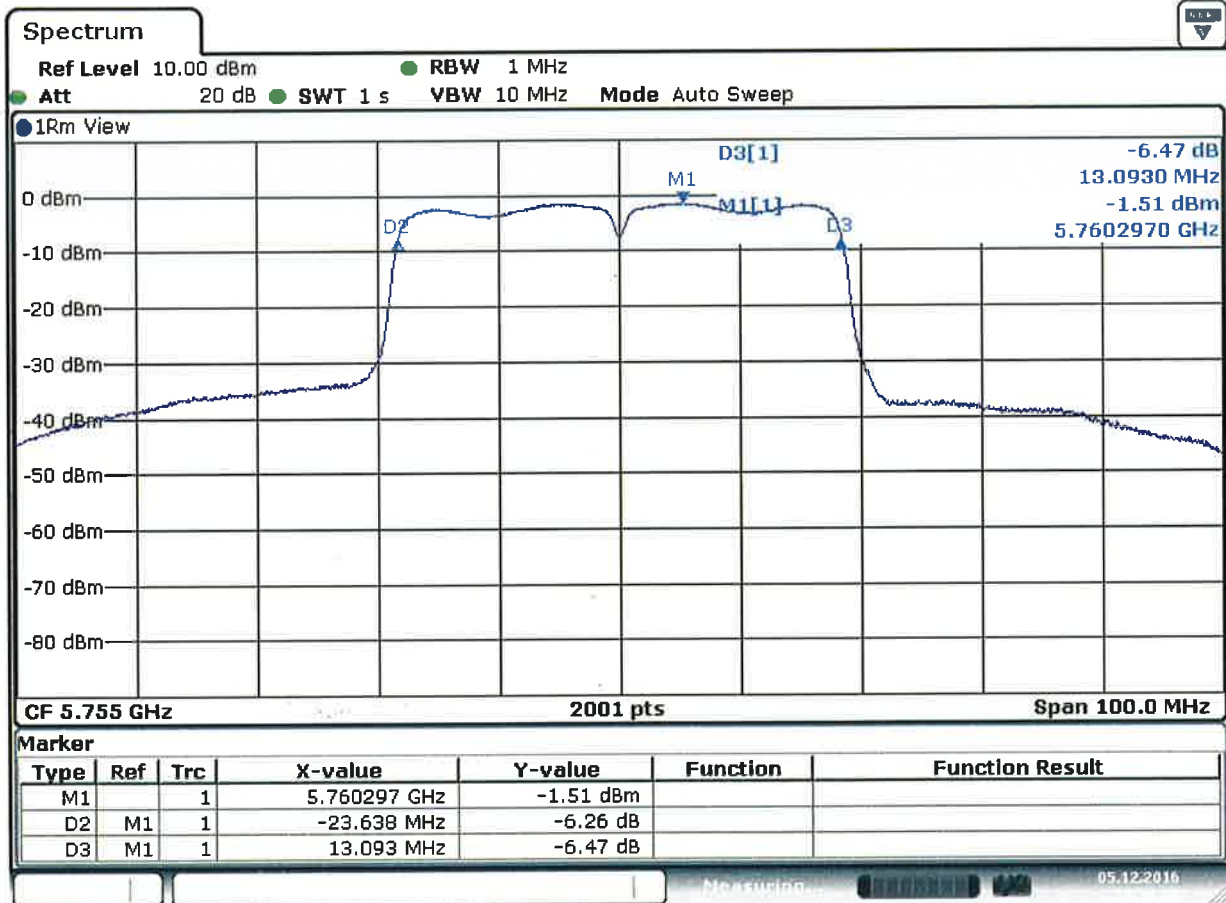
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 149-153 (5755 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:59:21

6dB Bandwidth: 36,731 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

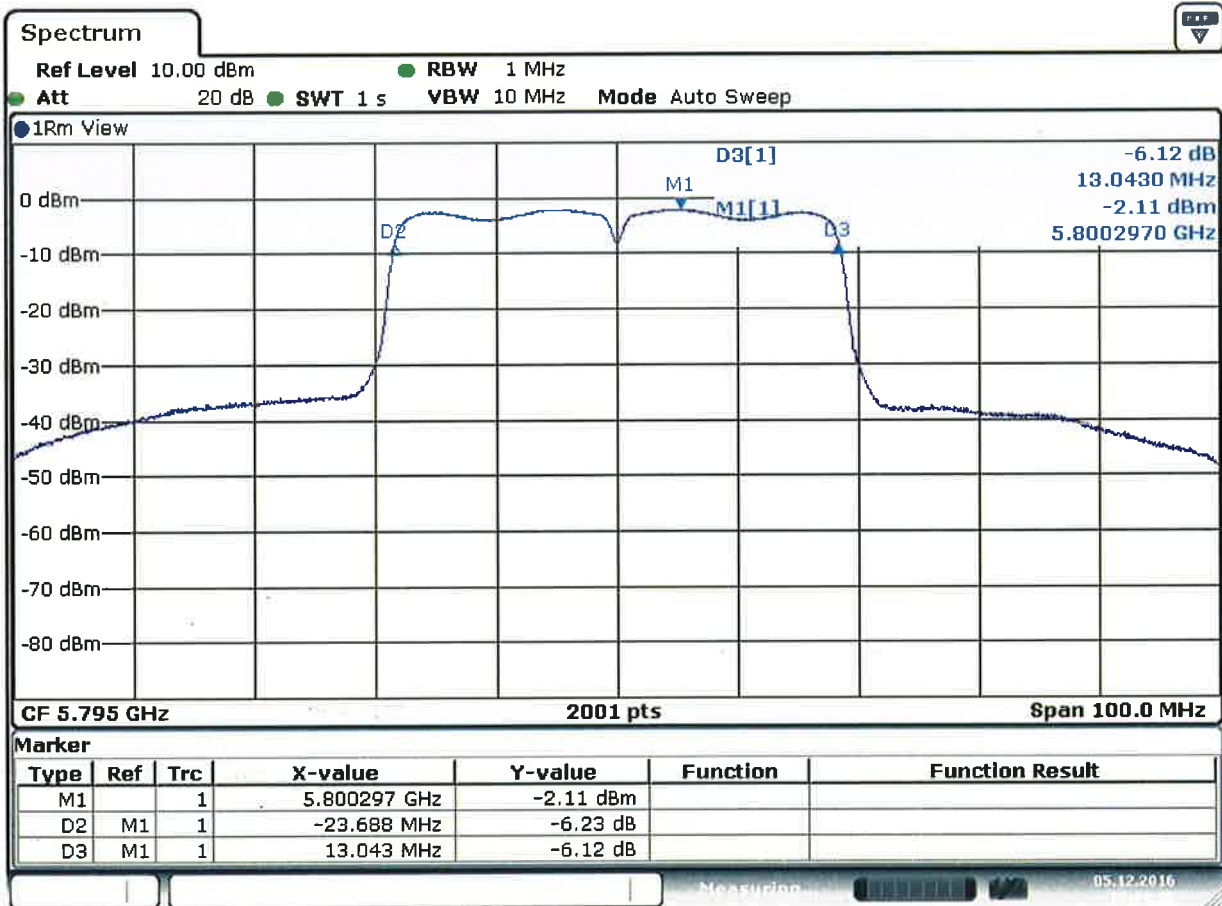
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 157-161 (5795 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:04:09

6dB Bandwidth: 36,731 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

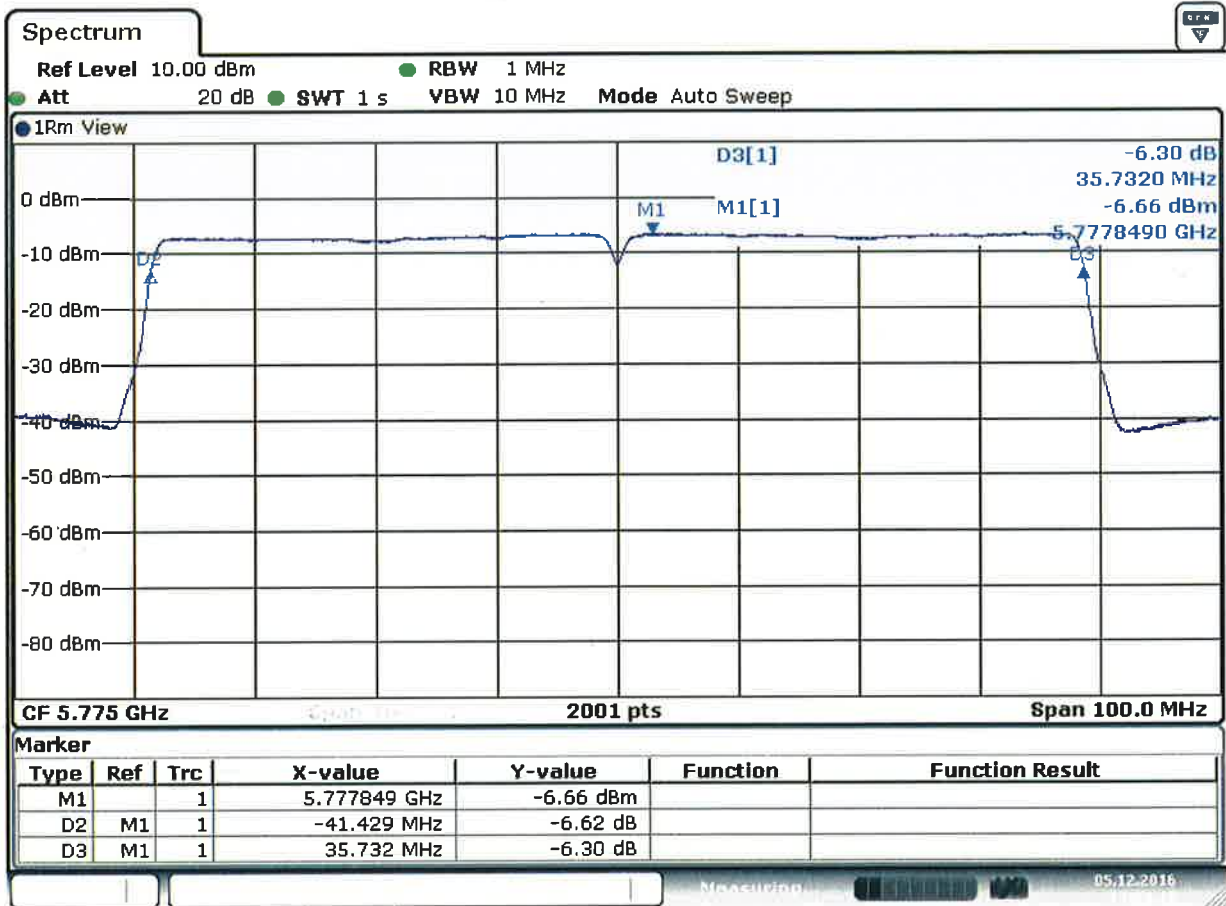
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 149-161 (5775 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 15:09:11

6dB Bandwidth: 77,161 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

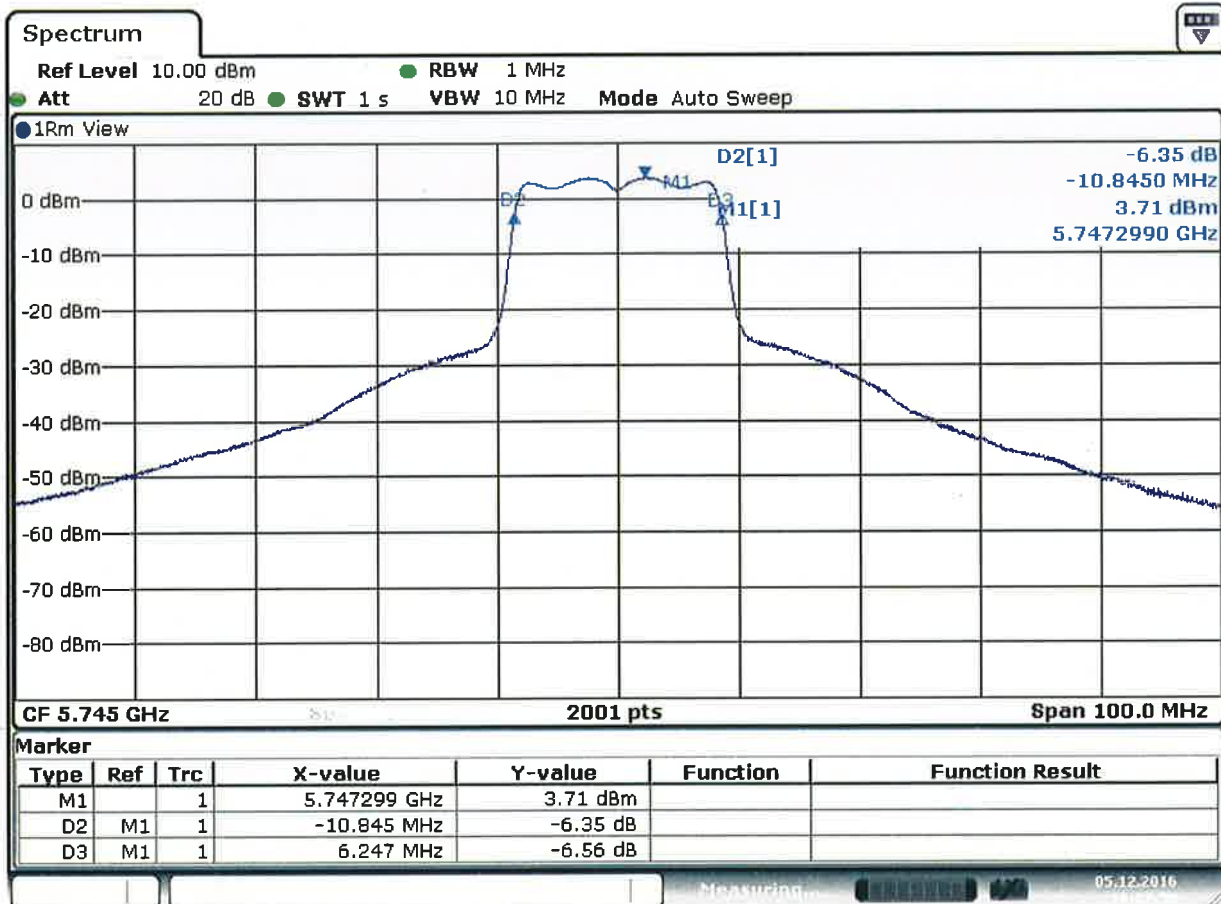
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 149 (5745 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:07:50

6dB Bandwidth: 17,092 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

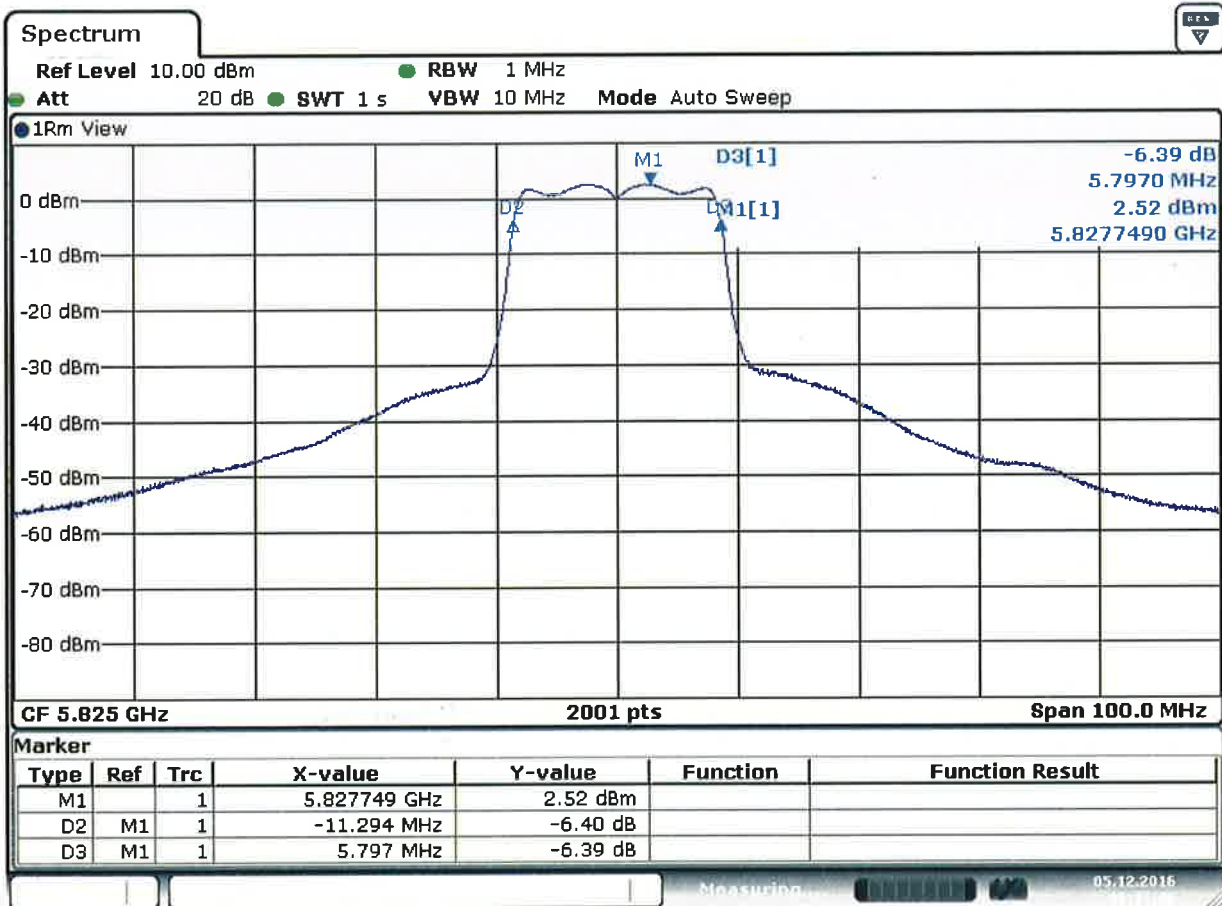
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 165 (5825 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:11:49

6dB Bandwidth: 17,091 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

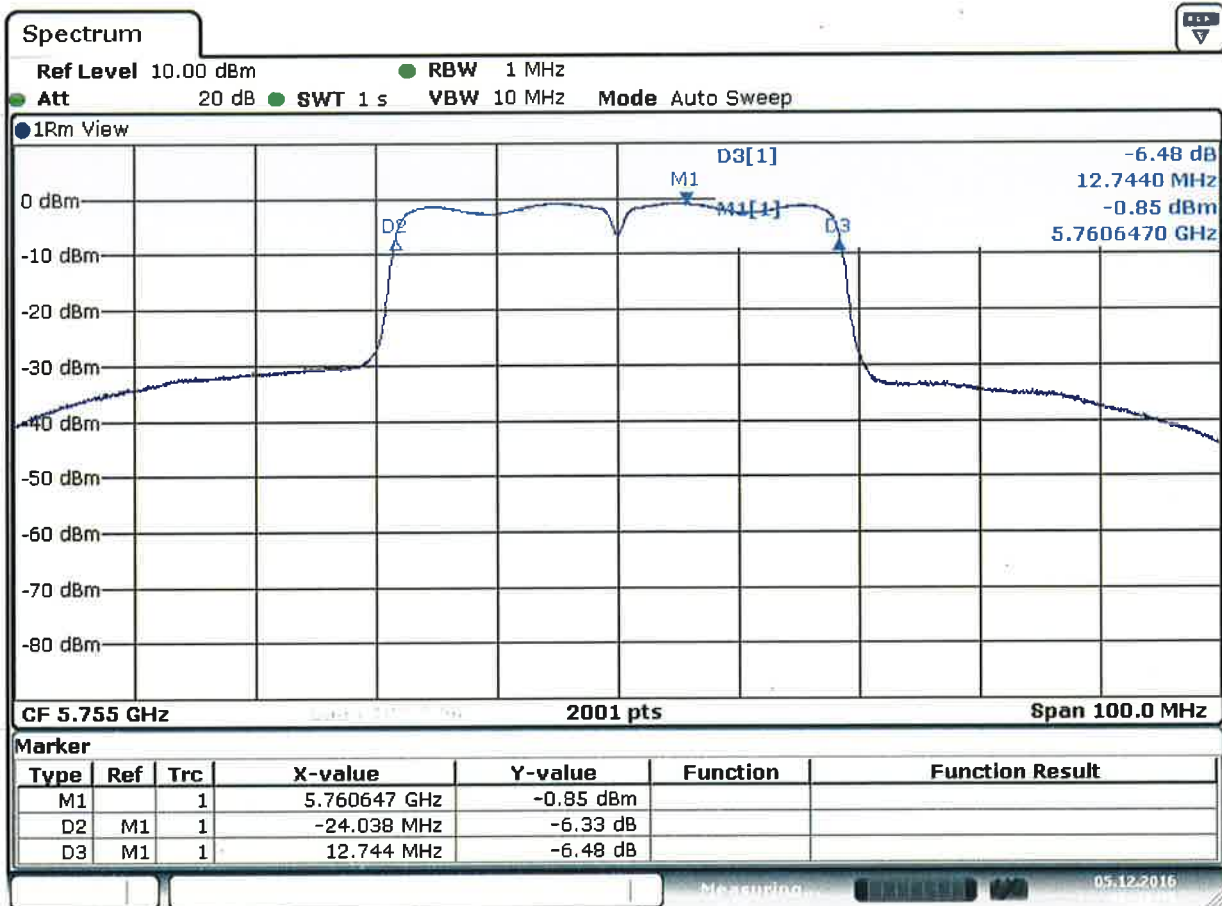
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 149-153 (5755 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:43:49

6dB Bandwidth: 36,782 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

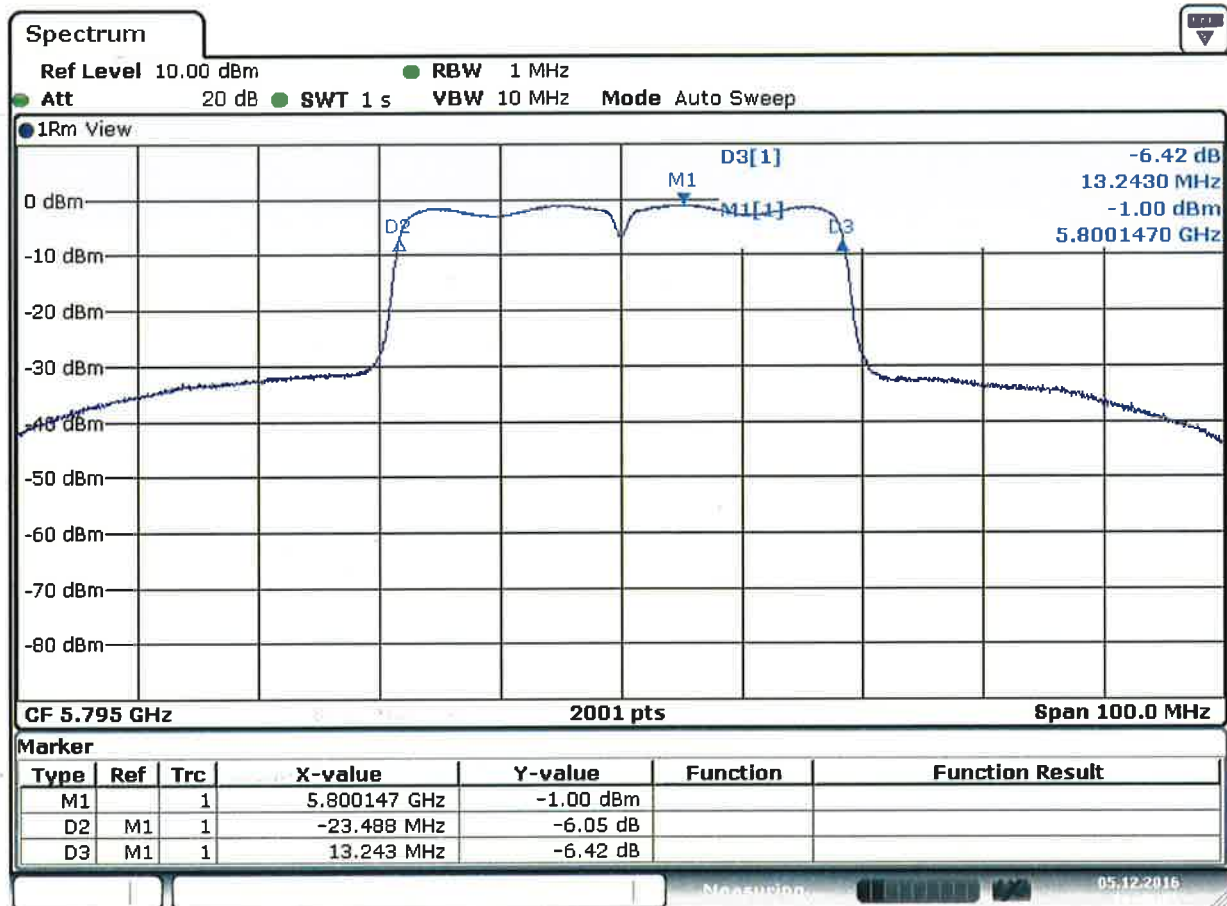
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 157-161 (5795 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:48:05

6dB Bandwidth: 36,731 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

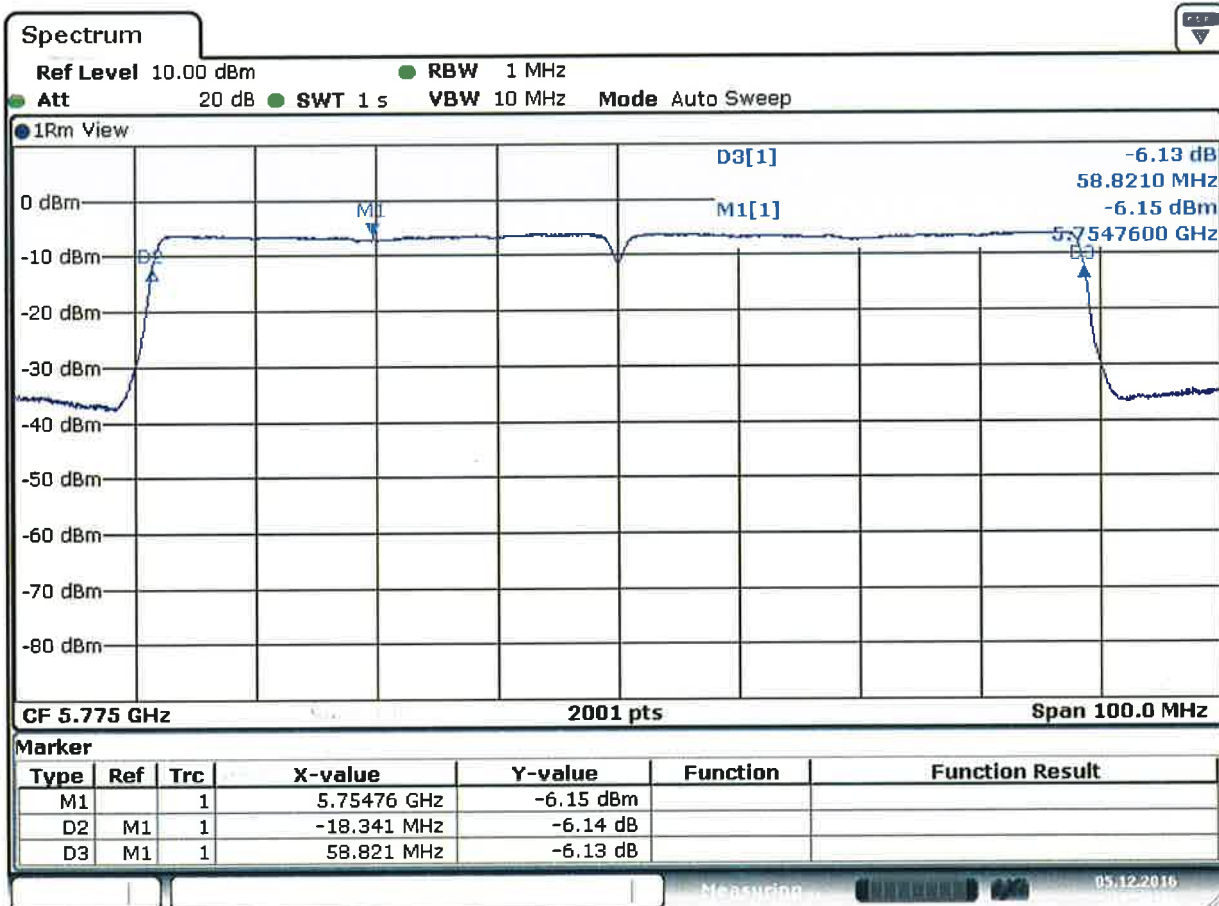
Test Equipment used: EMV-205

6dB Bandwidth

**§ 15.407(e)
6.2.4 (1)**

Conducted Measurement

Rated output power: 38,9 mW Channel 149-161 (5775 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:59:32

6dB Bandwidth: 77,162 MHz

LIMIT SUBCLAUSE 15.407(e) – 6.2.4 (1)

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

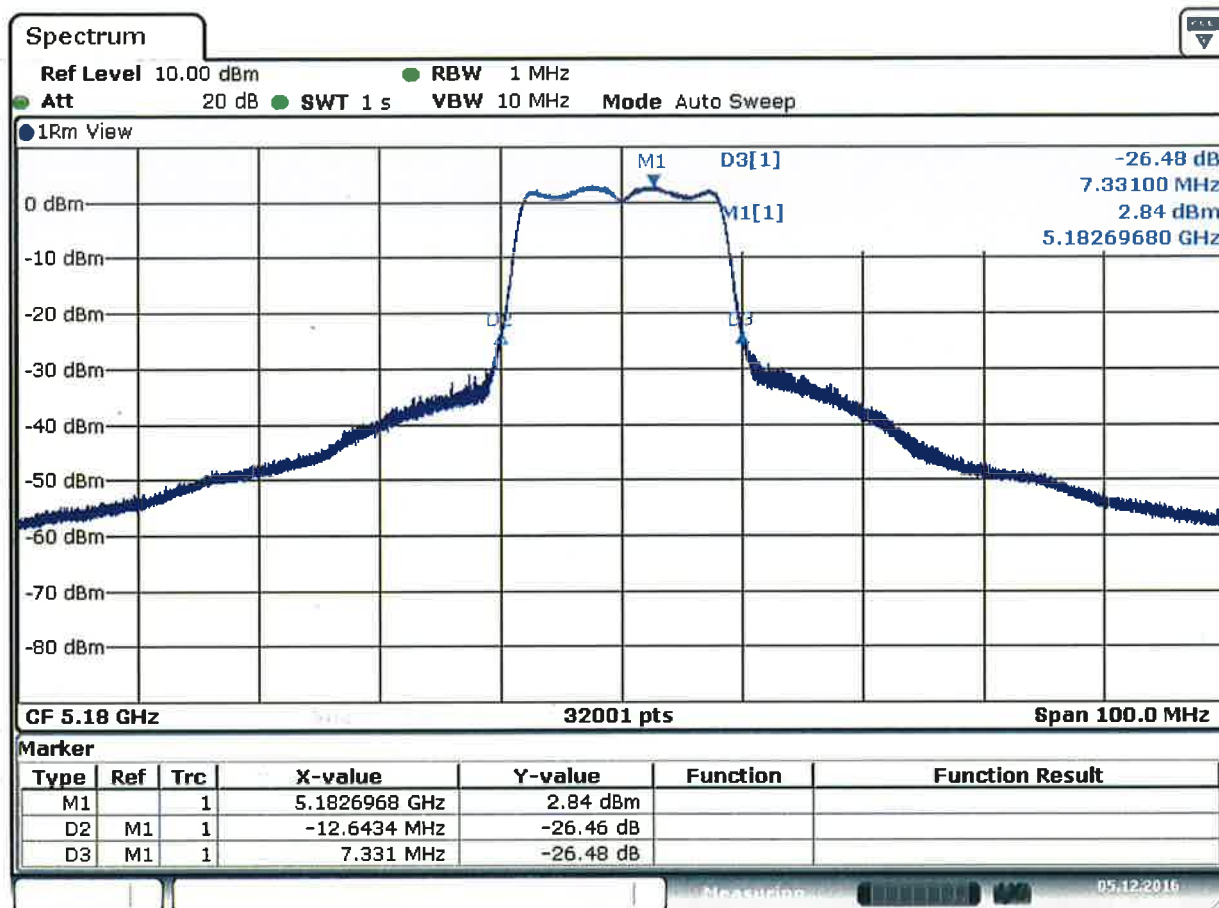
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36 (5180 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:32:06

26dB Bandwidth: 19,974 MHz

LIMIT SUBCLAUSE 15.407

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

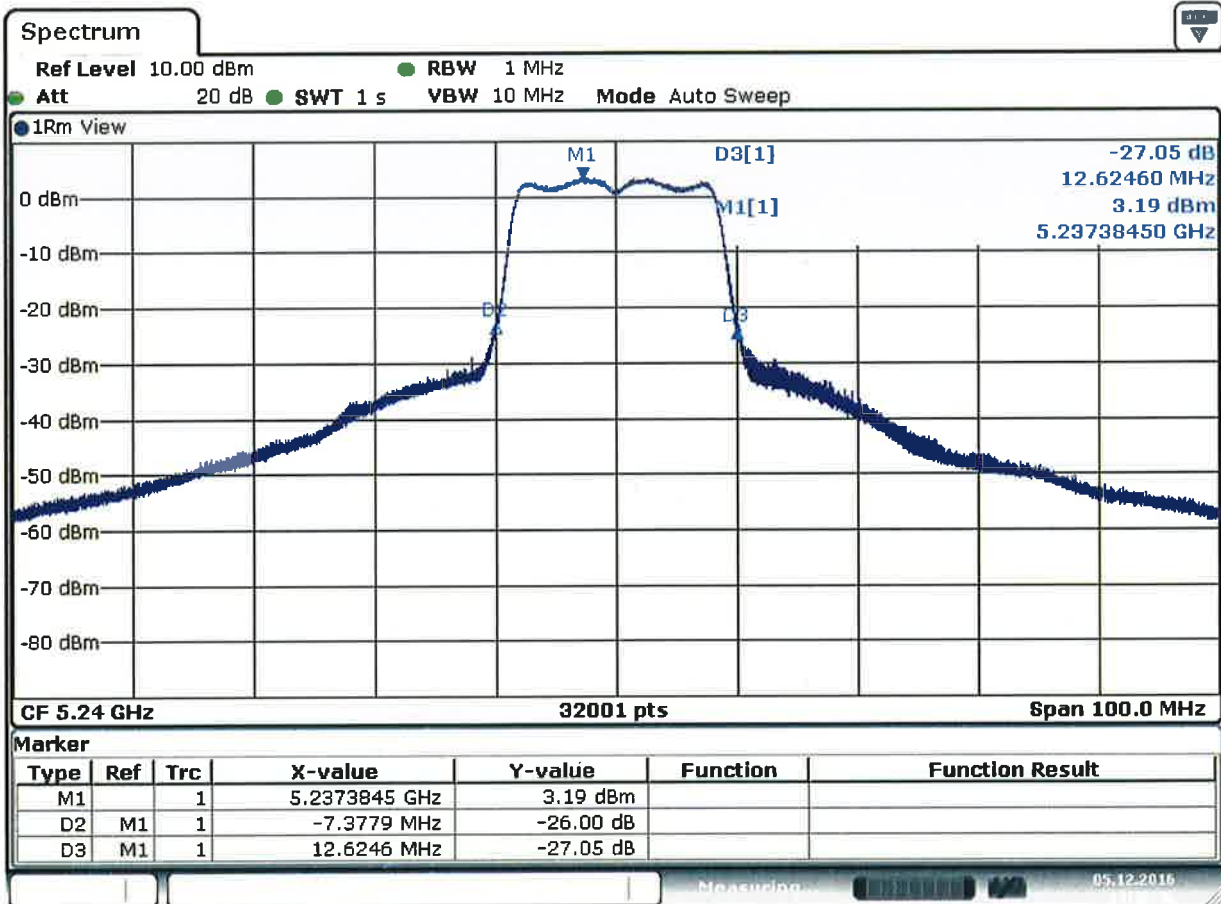
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 48 (5240 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:36:46

26dB Bandwidth: 20,003 MHz

LIMIT SUBCLAUSE 15.407

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

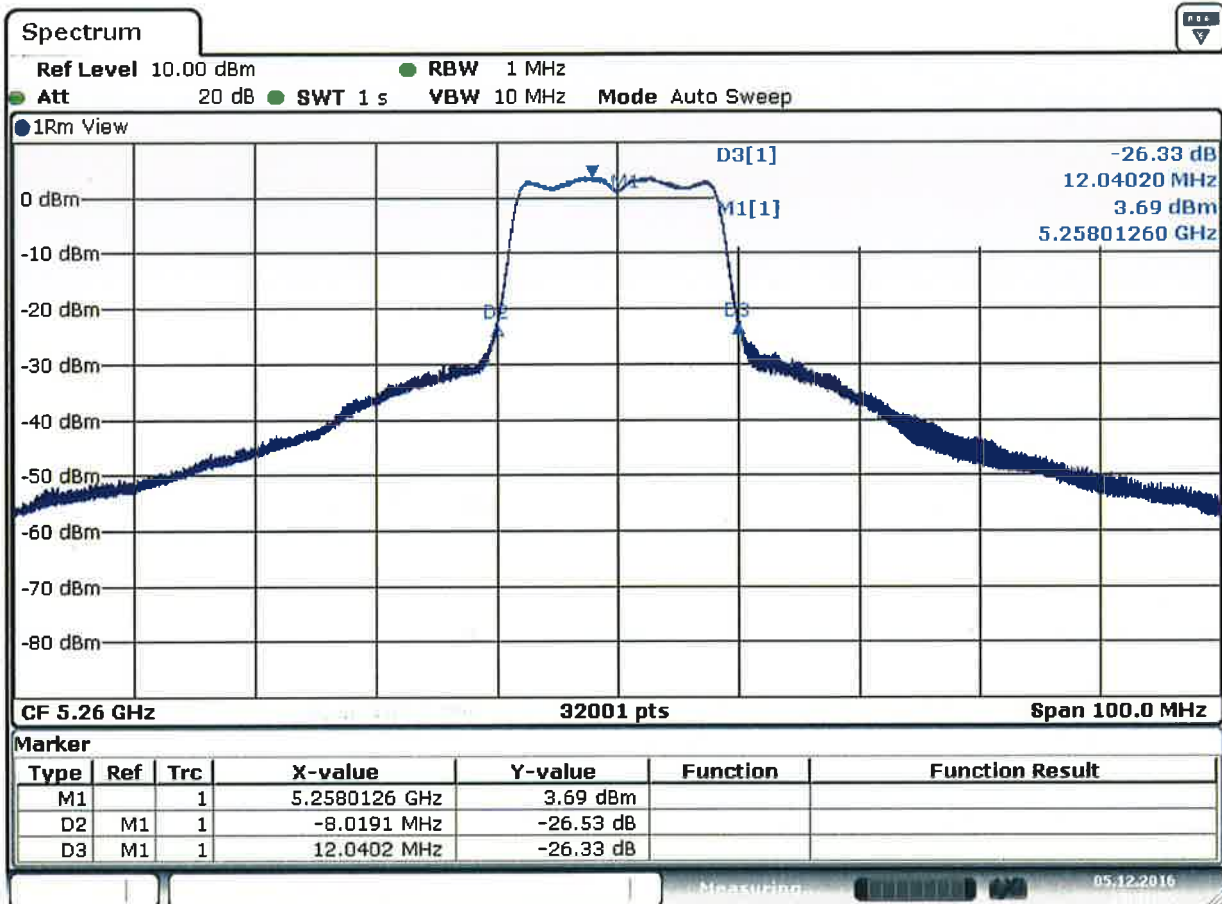
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52 (5260 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 13:41:55

26dB Bandwidth: 20,059 MHz

LIMIT SUBCLAUSE 15.407

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

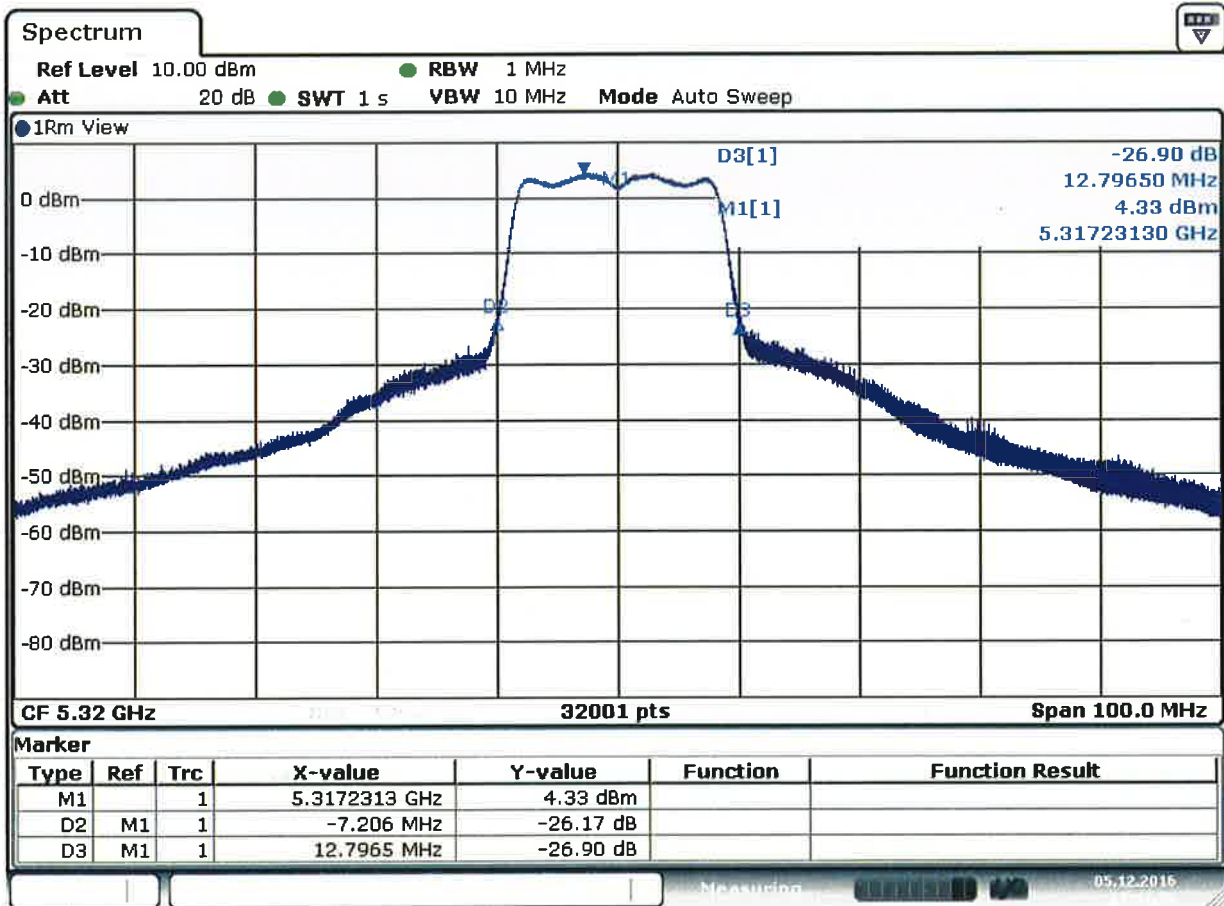
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 64 (5320 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:47:35

26dB Bandwidth: 20,003 MHz

LIMIT SUBCLAUSE 15.407

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

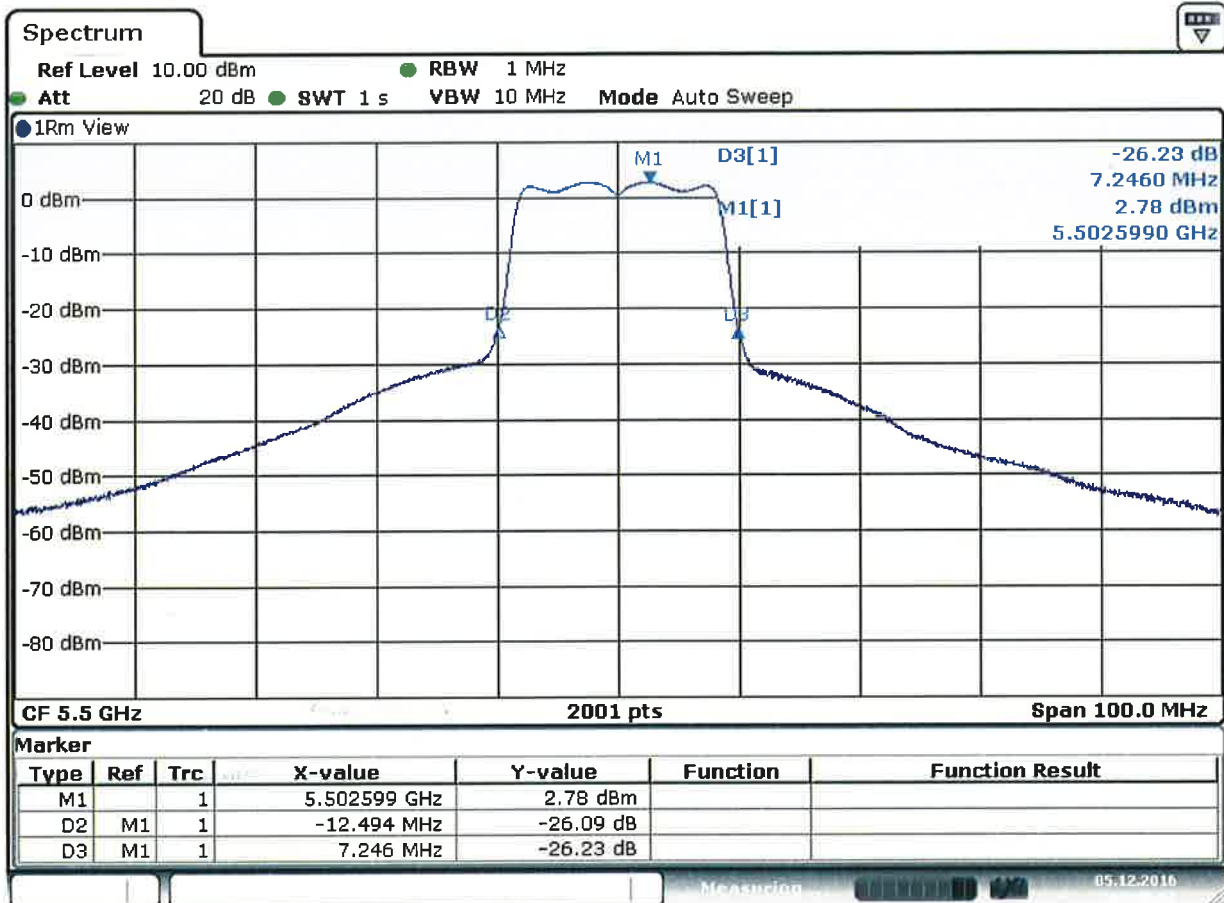
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100 (5500 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 13:49:52

26dB Bandwidth: 19,740 MHz

LIMIT SUBCLAUSE 15.407

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

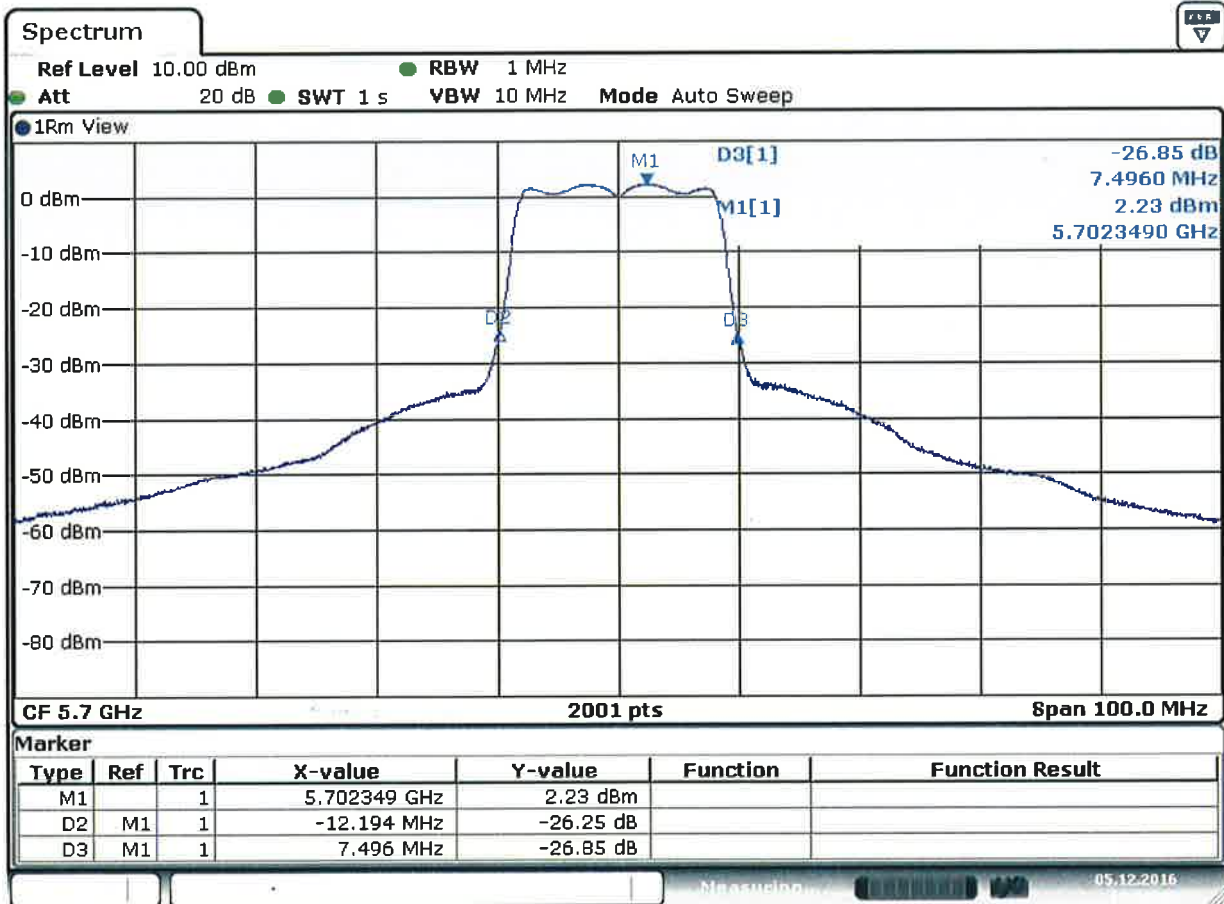
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 140 (5700 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 13:52:42

26dB Bandwidth: 19,690 MHz

LIMIT SUBCLAUSE 15.407

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

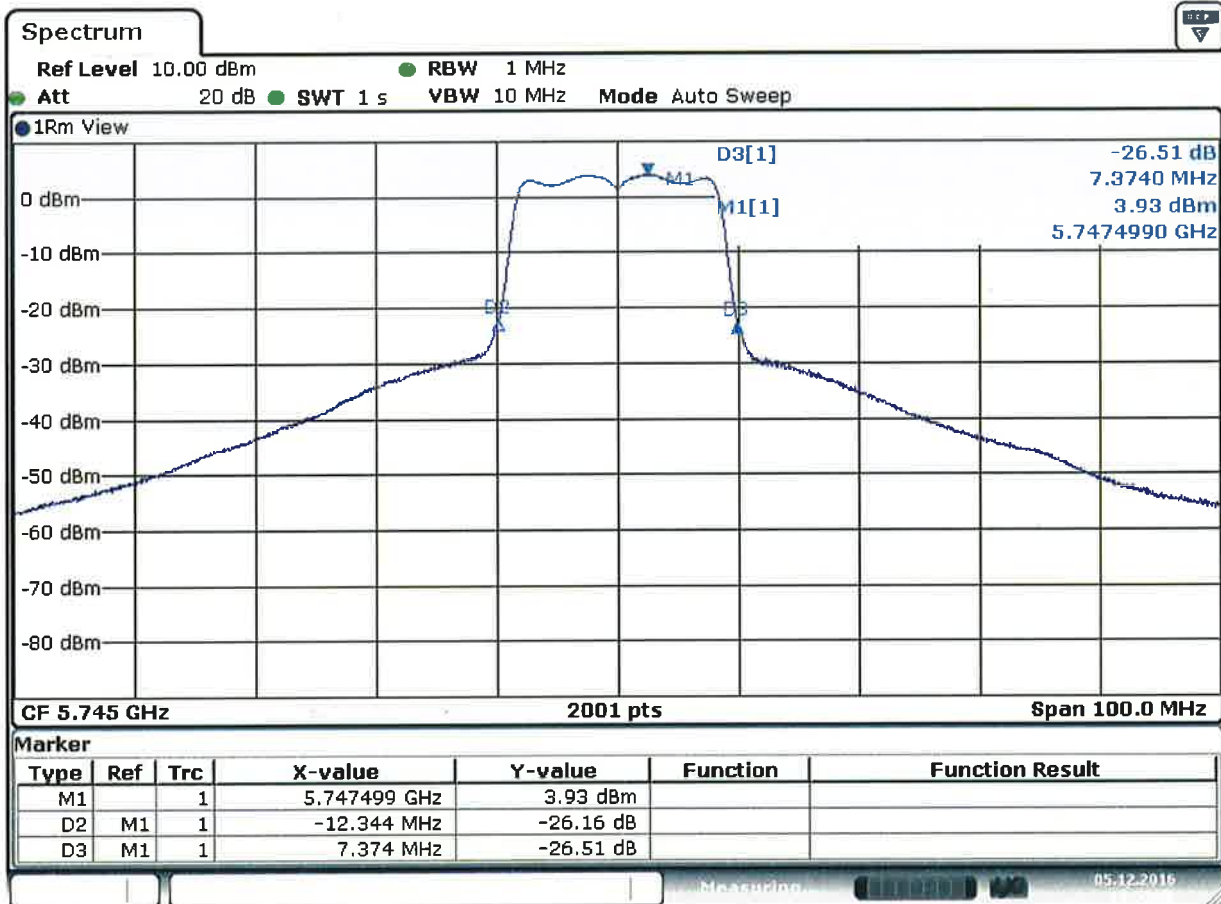
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149 (5745 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:55:41

26dB Bandwidth: 19,718 MHz

LIMIT SUBCLAUSE 15.407

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

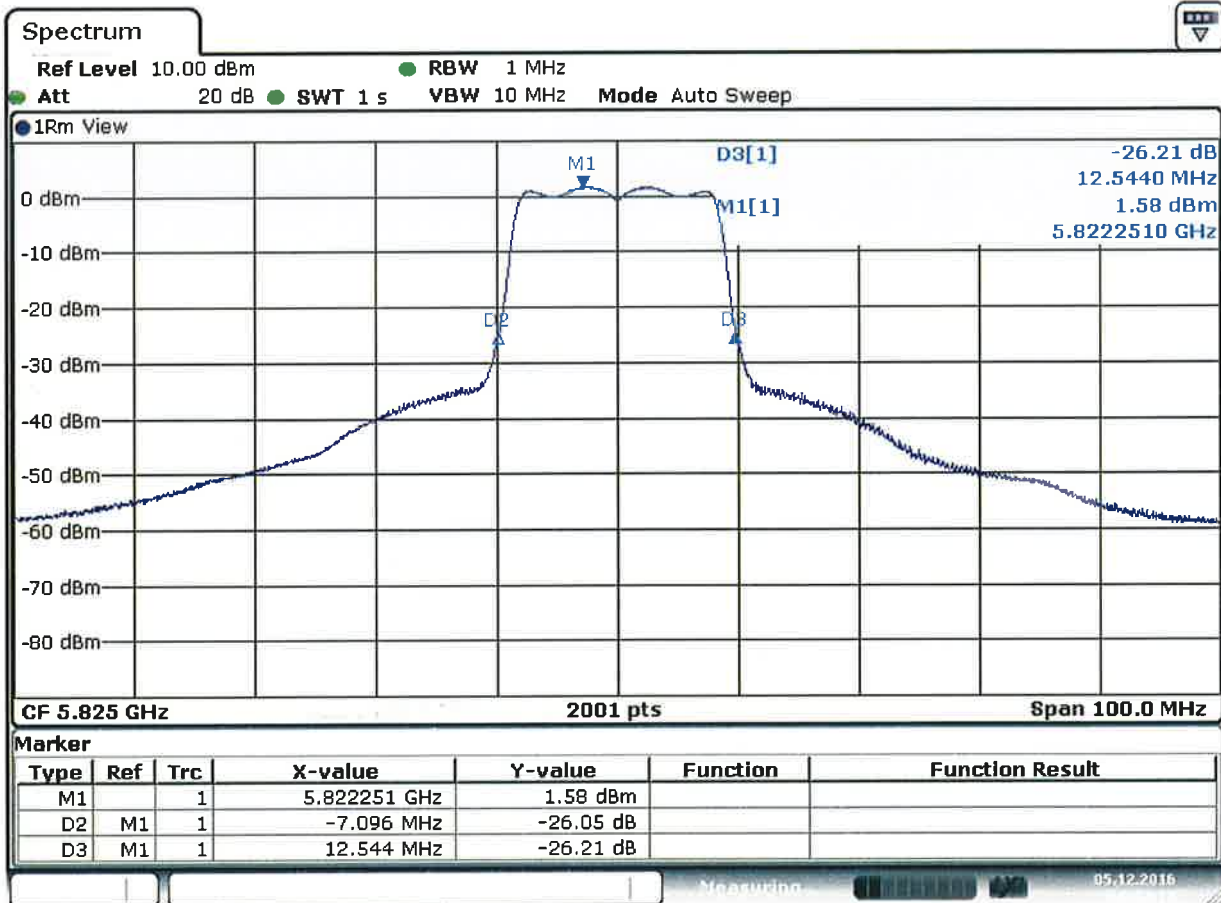
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 165 (5825 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 14:02:13

26dB Bandwidth: 19,640 MHz

LIMIT SUBCLAUSE 15.407

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

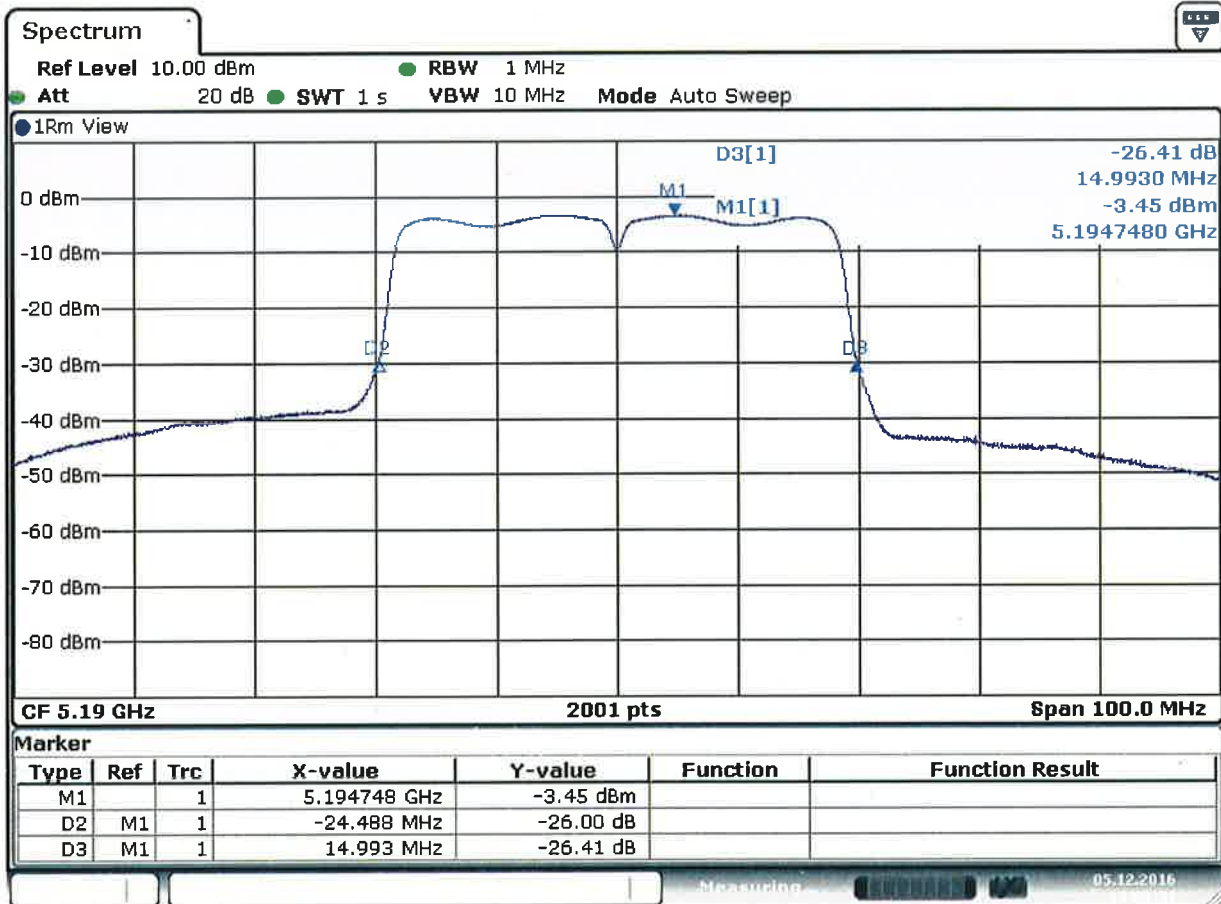
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36-40 (5190 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:04:41

26dB Bandwidth: 39,481 MHz

LIMIT SUBCLAUSE 15.407

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

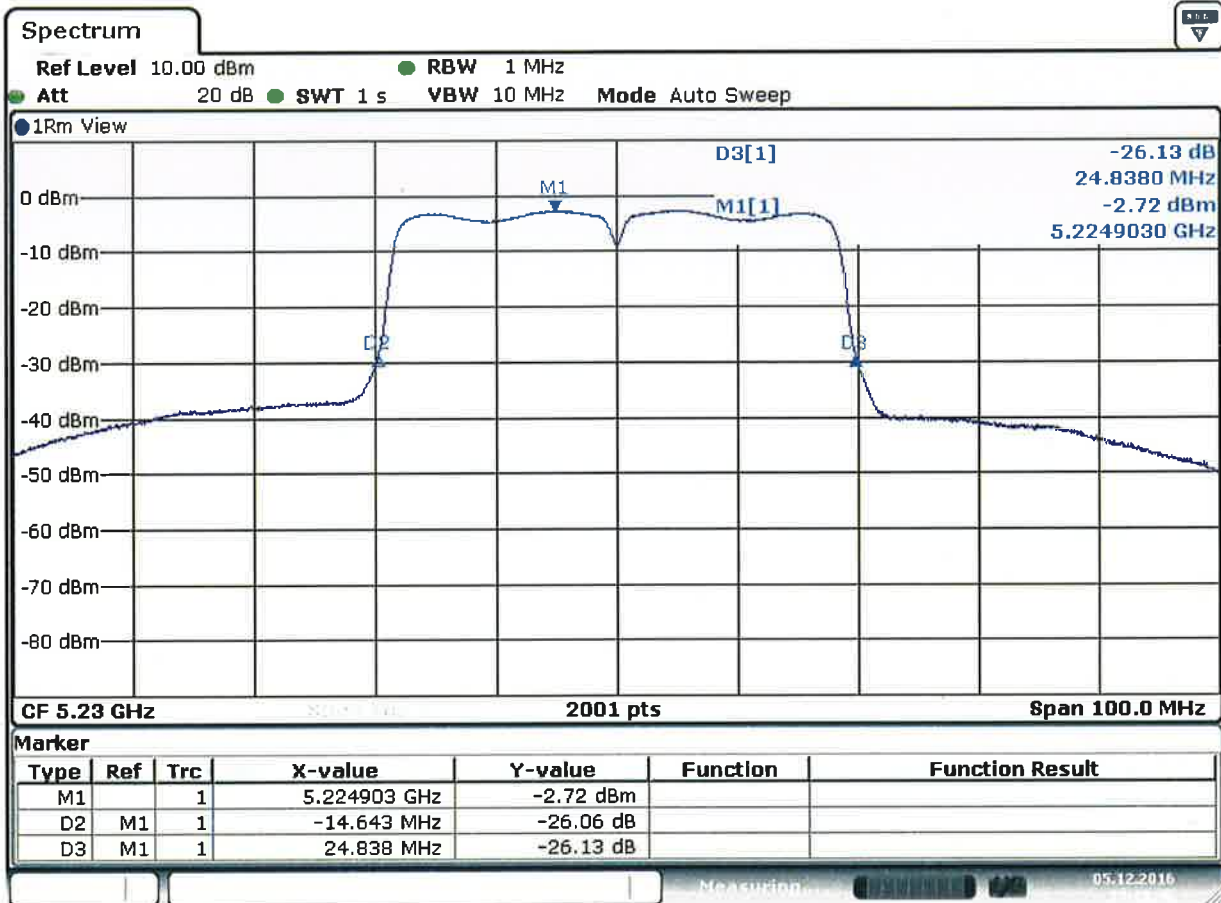
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 44-48 (5230 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:18:47

26dB Bandwidth: 39,481 MHz

LIMIT SUBCLAUSE 15.407

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

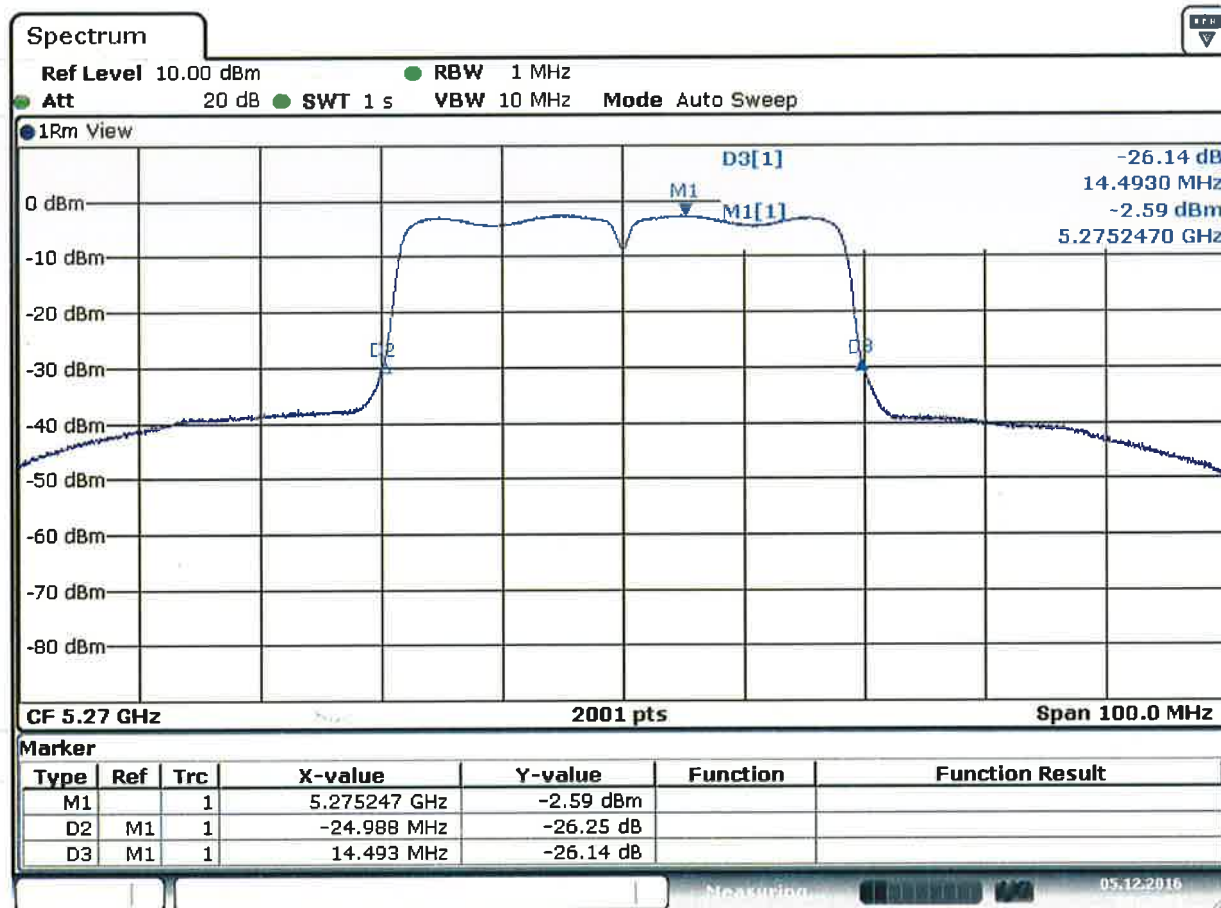
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52-56 (5270 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:21:23

26dB Bandwidth: 39,481 MHz

LIMIT SUBCLAUSE 15.407

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

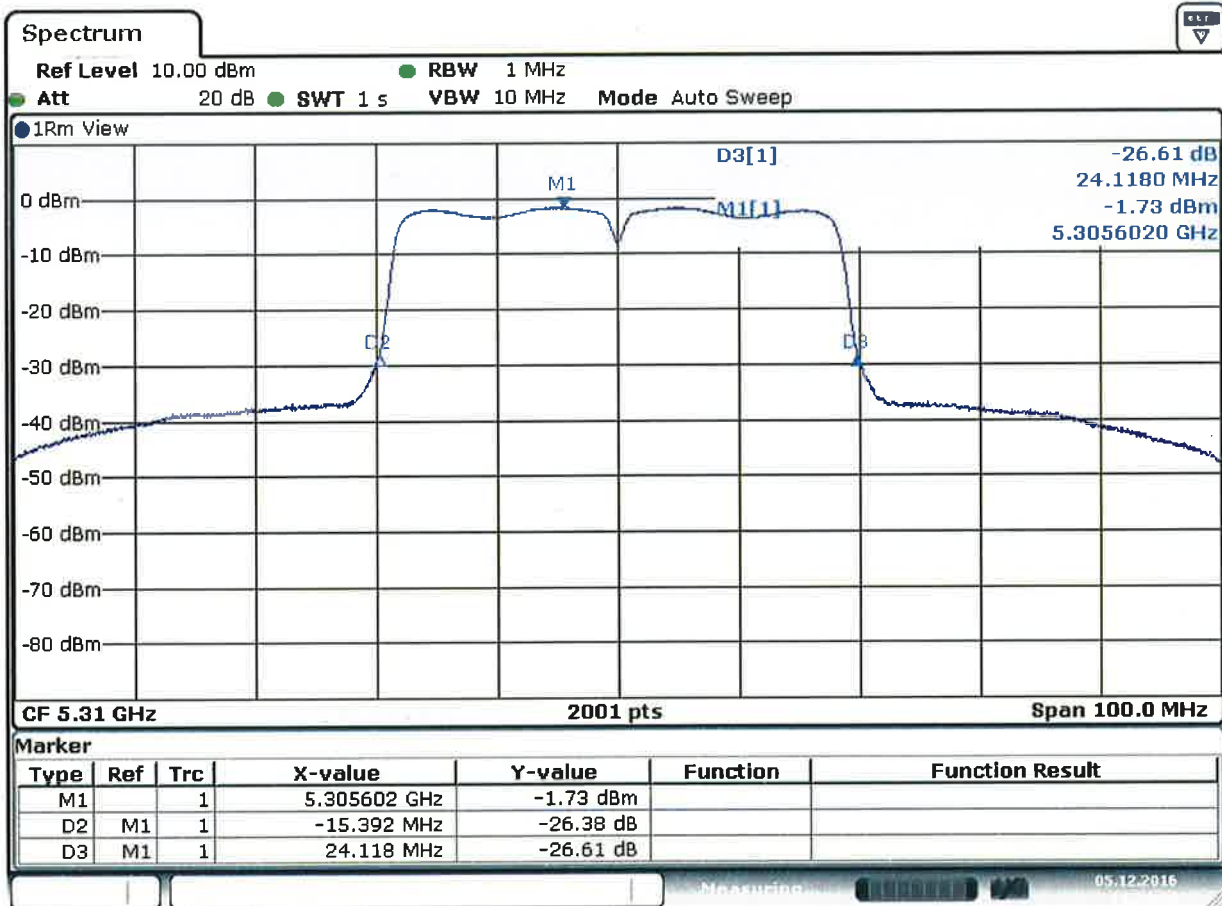
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 60-64 (5310 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:24:34

26dB Bandwidth: 39,510 MHz

LIMIT SUBCLAUSE 15.407

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

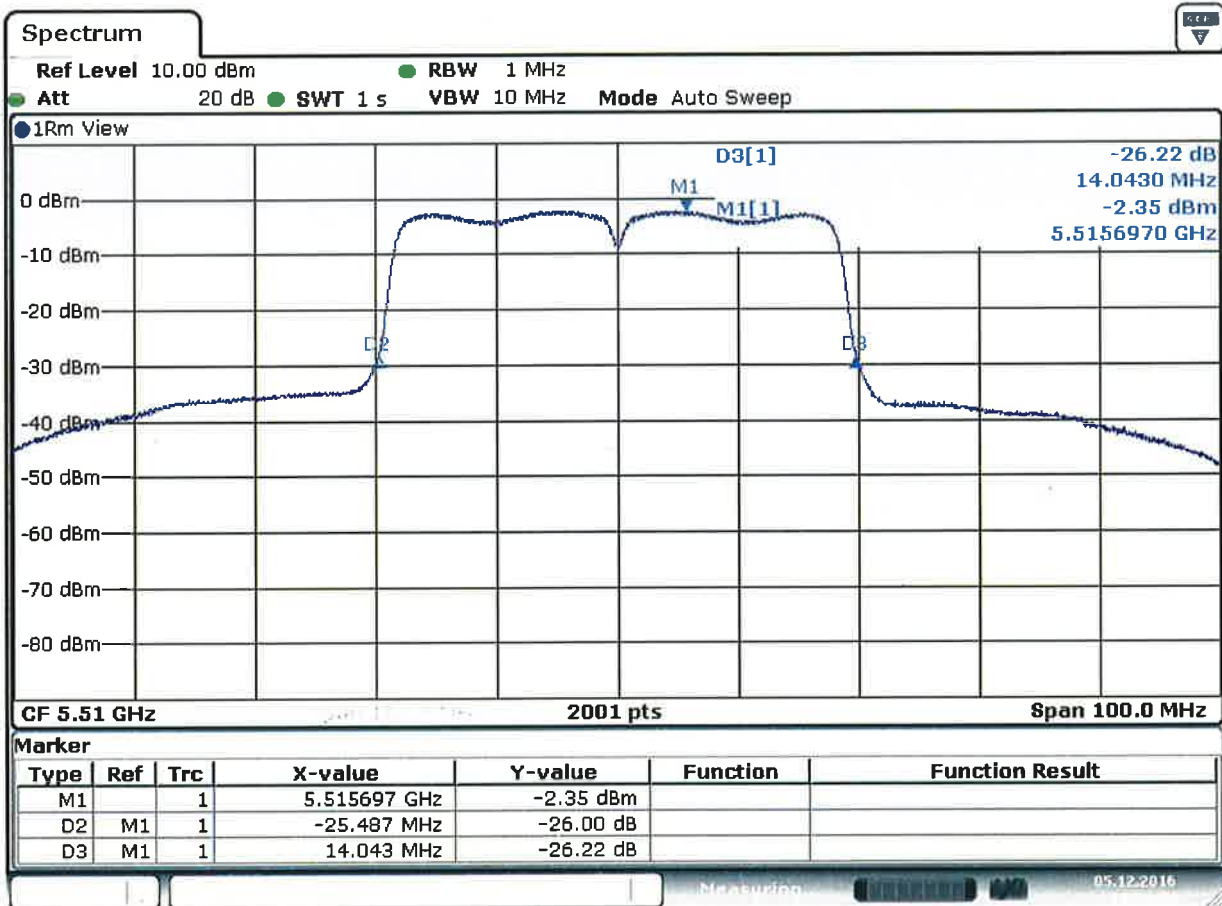
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100-104 (5510 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:54:45

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

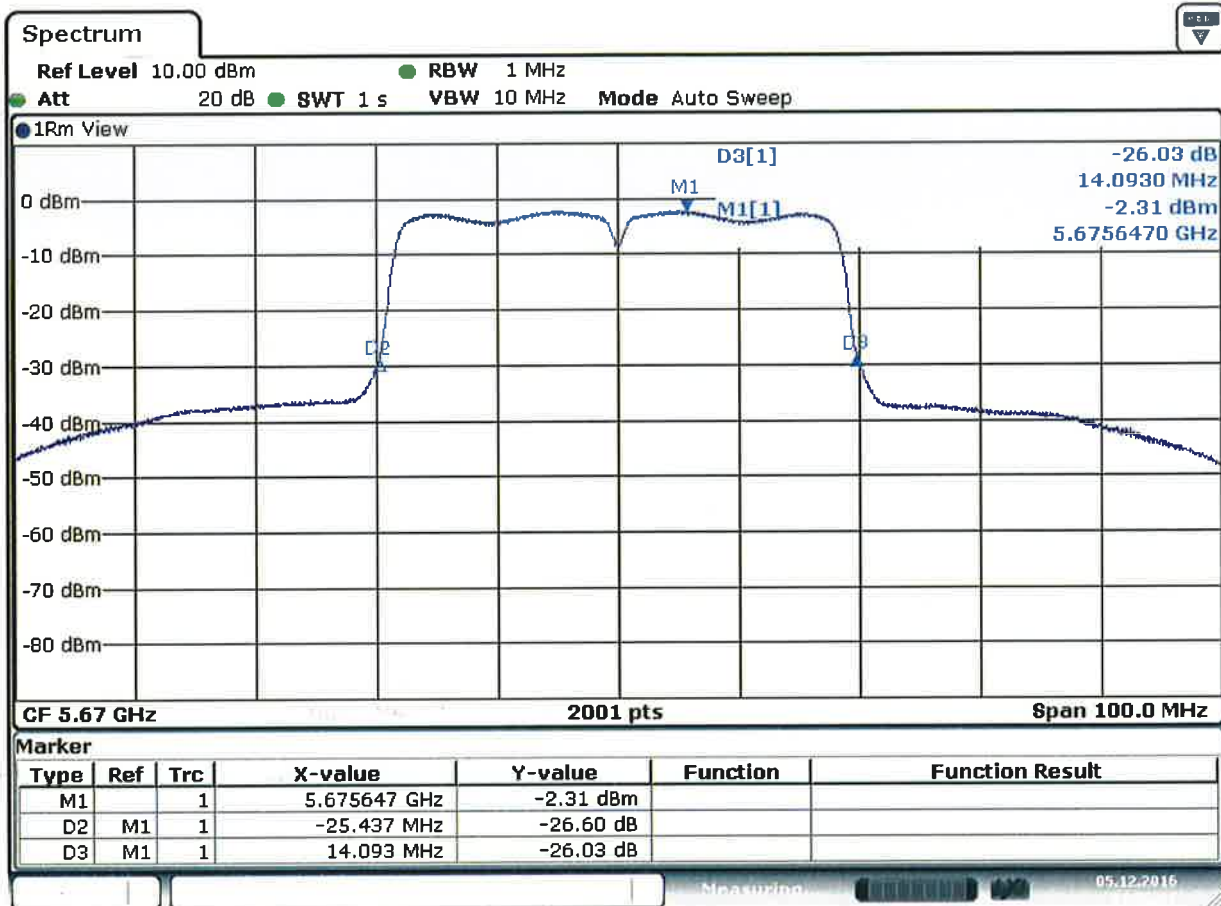
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 132-136 (5670 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 14:56:18

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

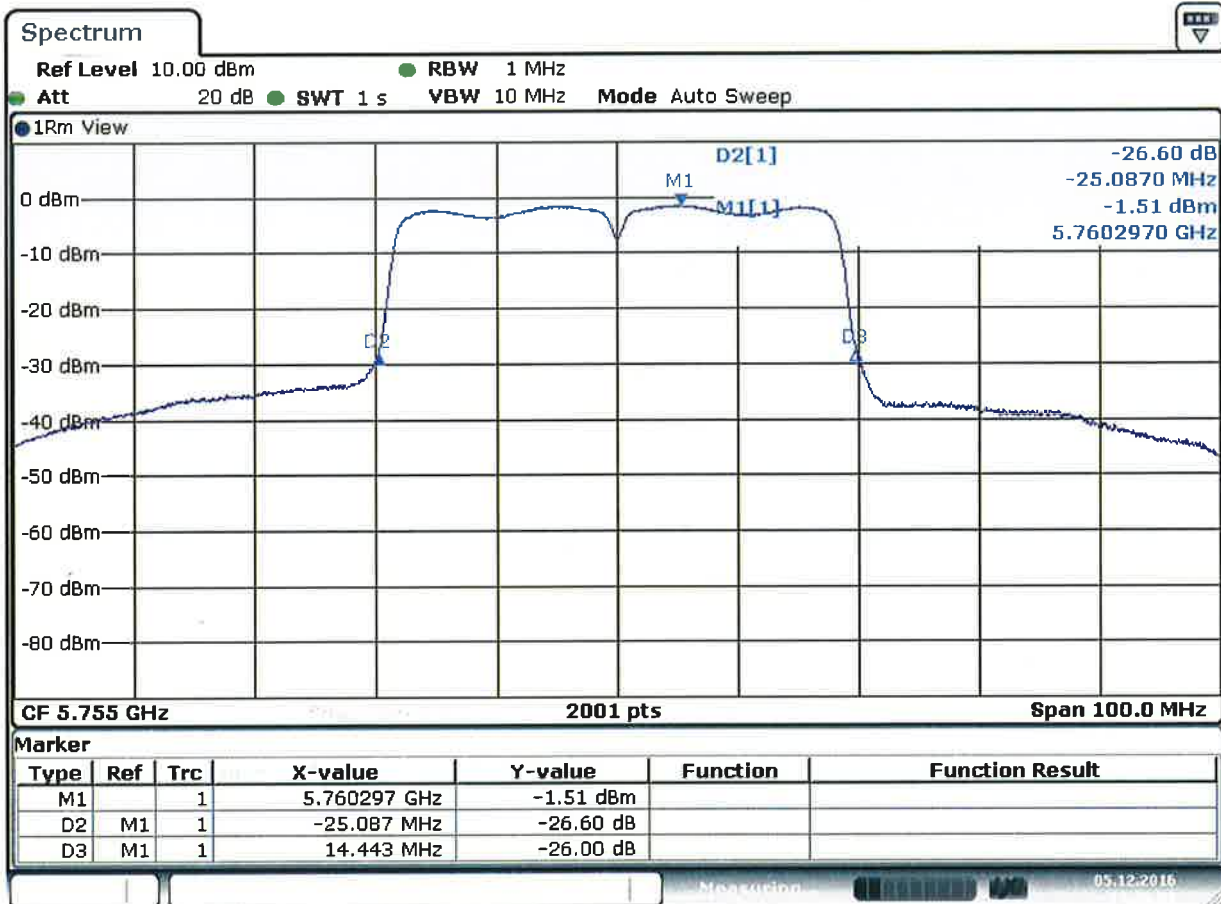
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149-153 (5755 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:00:09

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

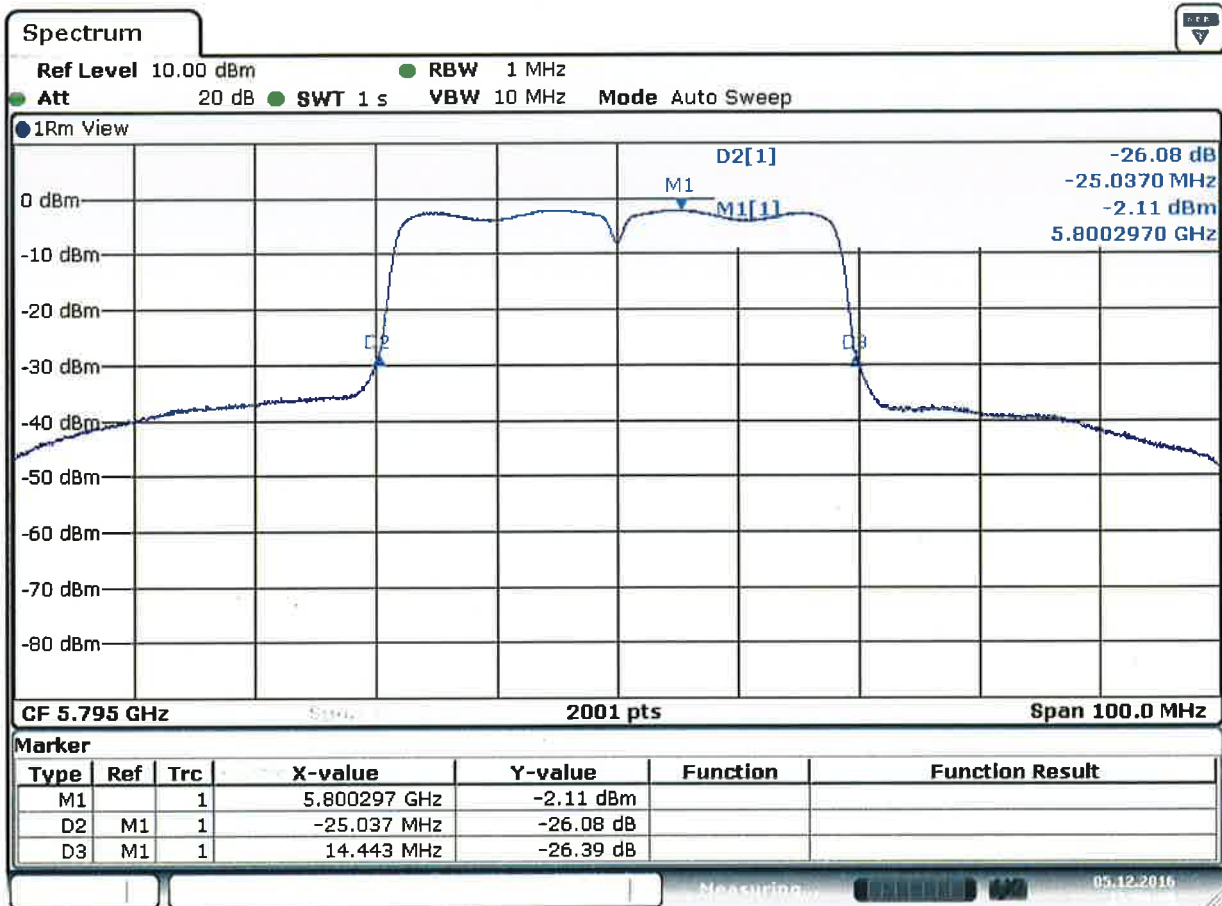
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 157-161 (5795 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:04:49

26dB Bandwidth: 39,480 MHz

LIMIT SUBCLAUSE 15.407

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

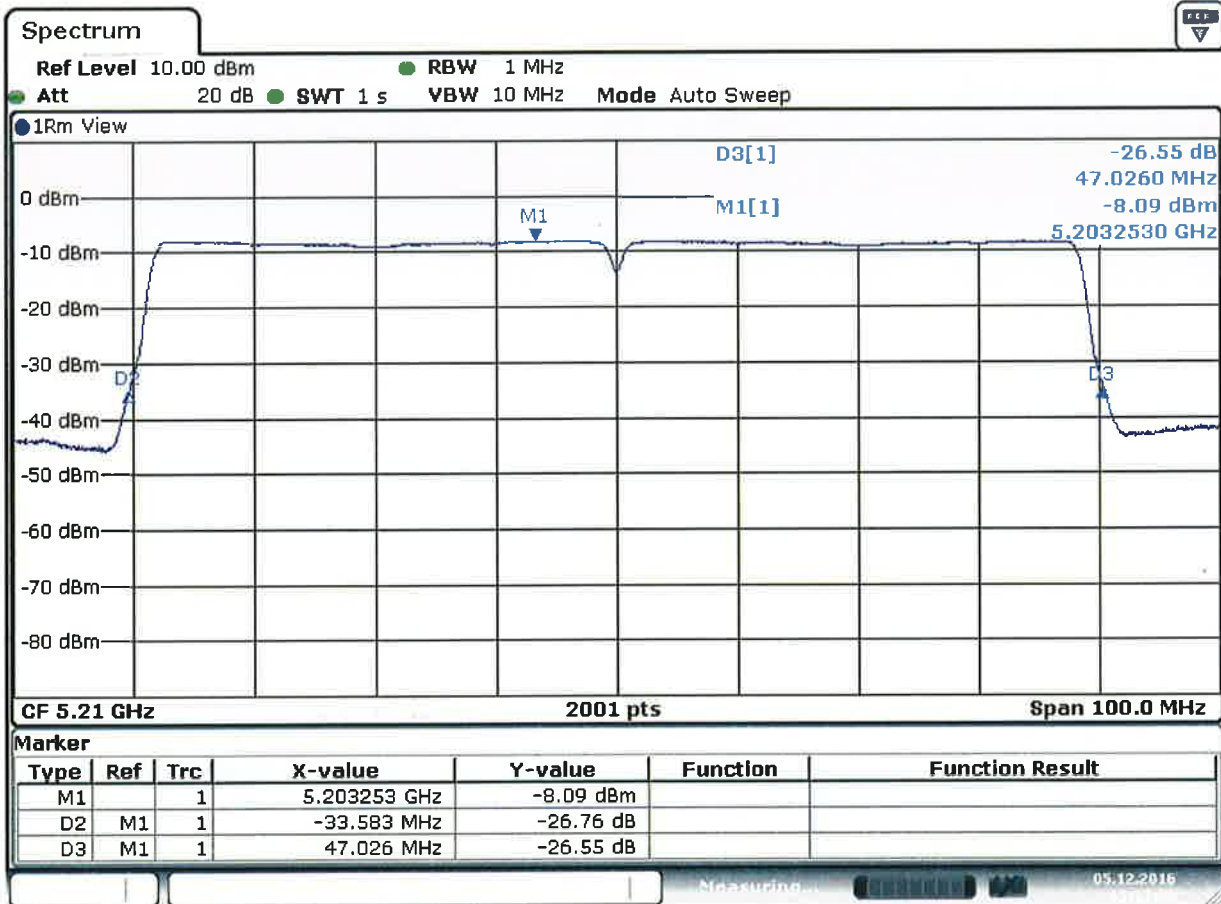
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36-48 (5210 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:13:20

26dB Bandwidth: 80,609 MHz

LIMIT SUBCLAUSE 15.407

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

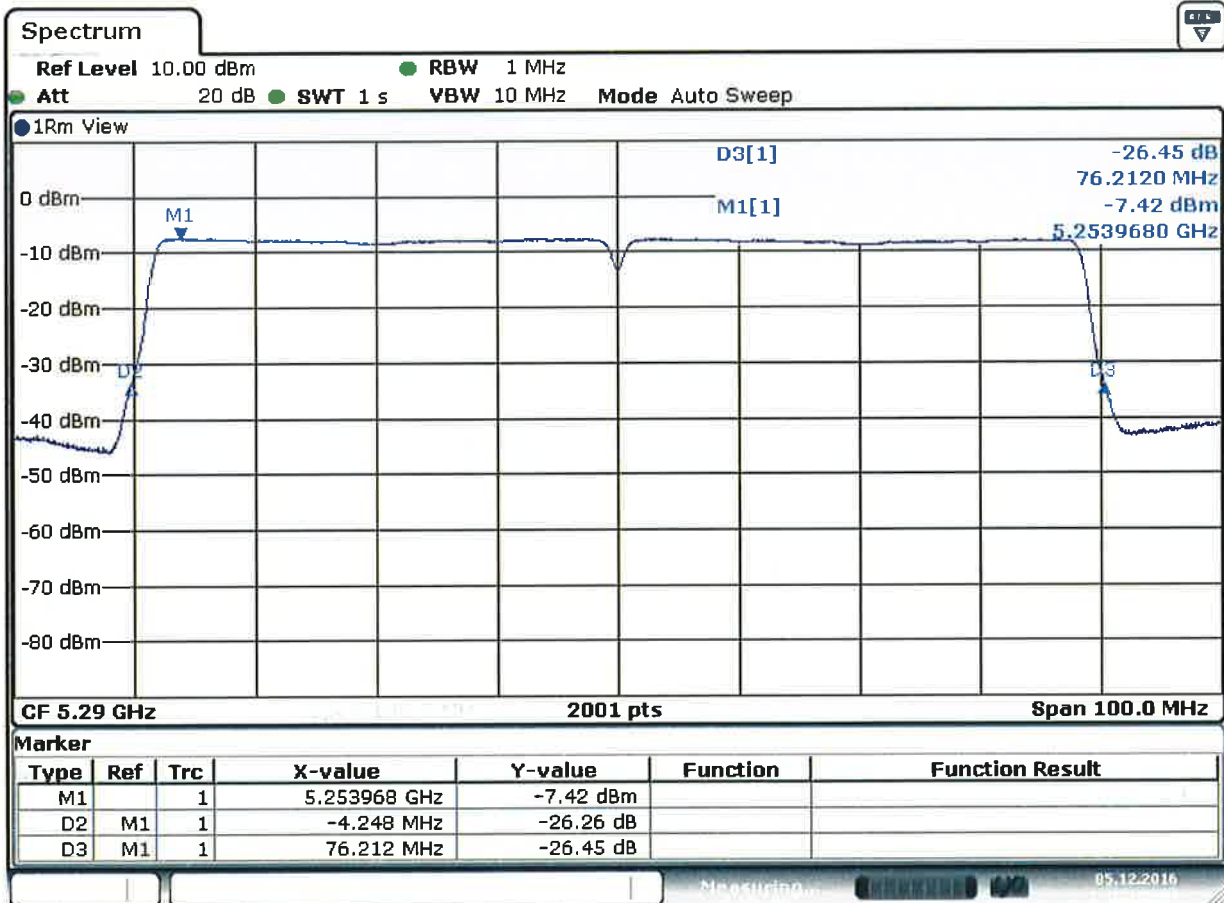
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52-64 (5290 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:15:05

26dB Bandwidth: 80,460 MHz

LIMIT SUBCLAUSE 15.407

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

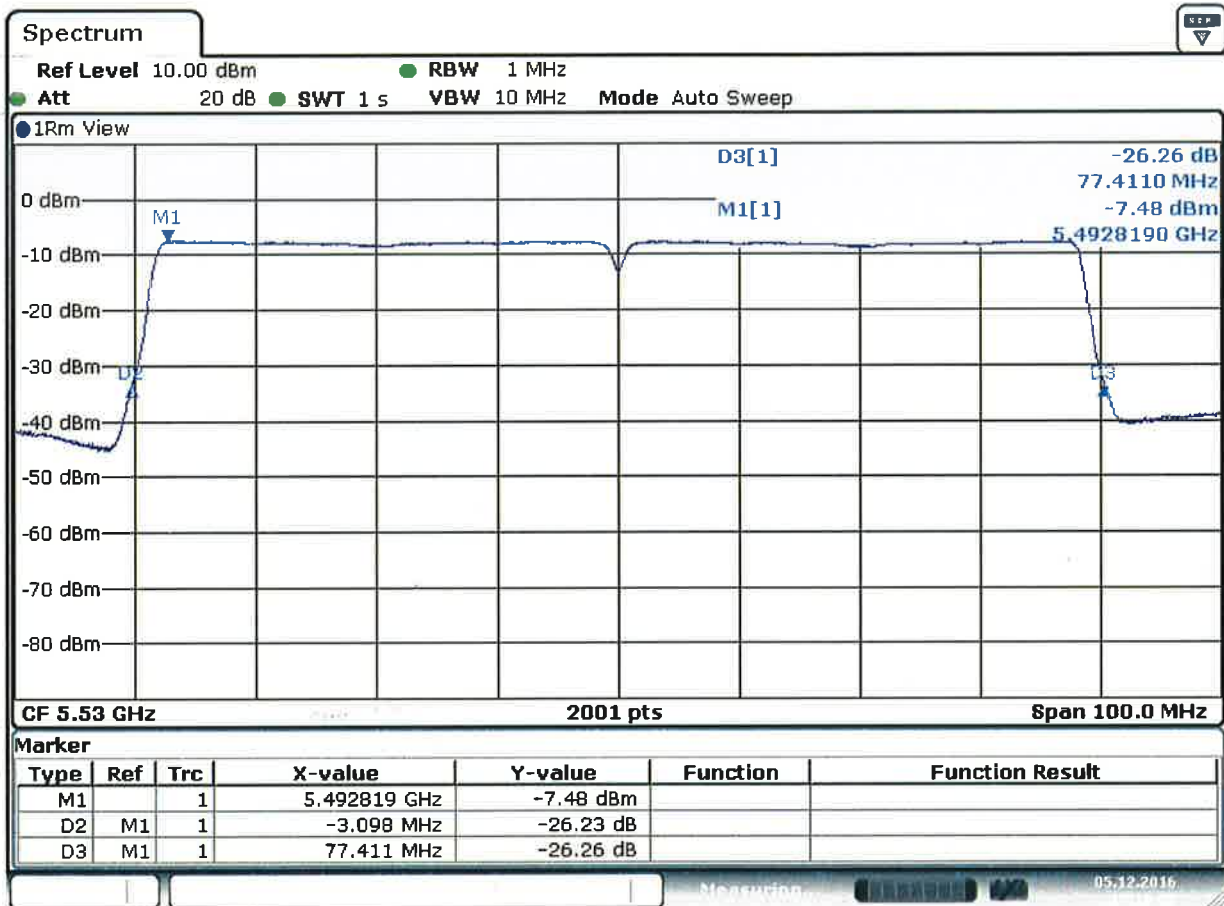
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100-112 (5530 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:18:51

26dB Bandwidth: 80,509 MHz

LIMIT SUBCLAUSE 15.407

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

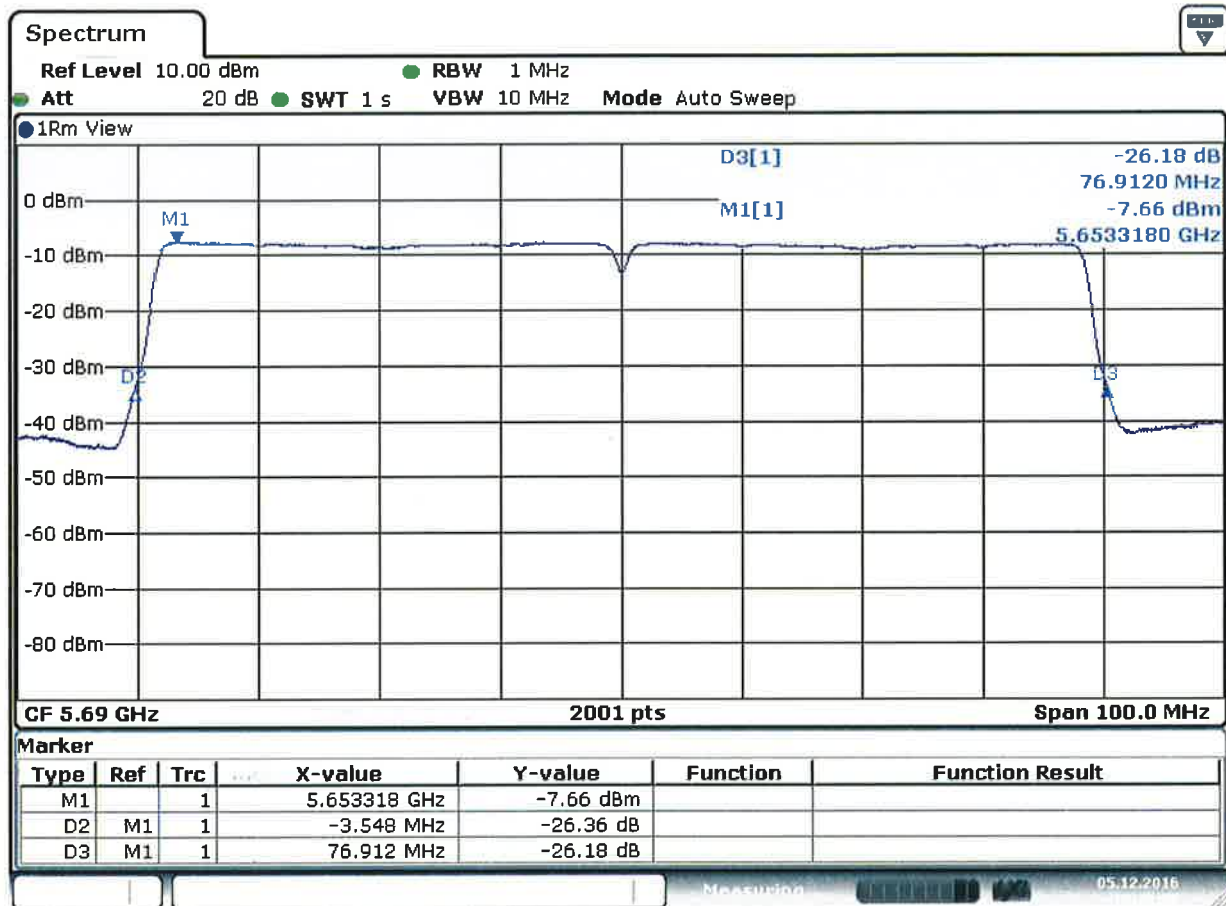
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 132-144 (5690 MHz center frequency) – Antenna 1



Date: 5 DEC 2016 15:20:10

26dB Bandwidth: 80,460 MHz

LIMIT SUBCLAUSE 15.407

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

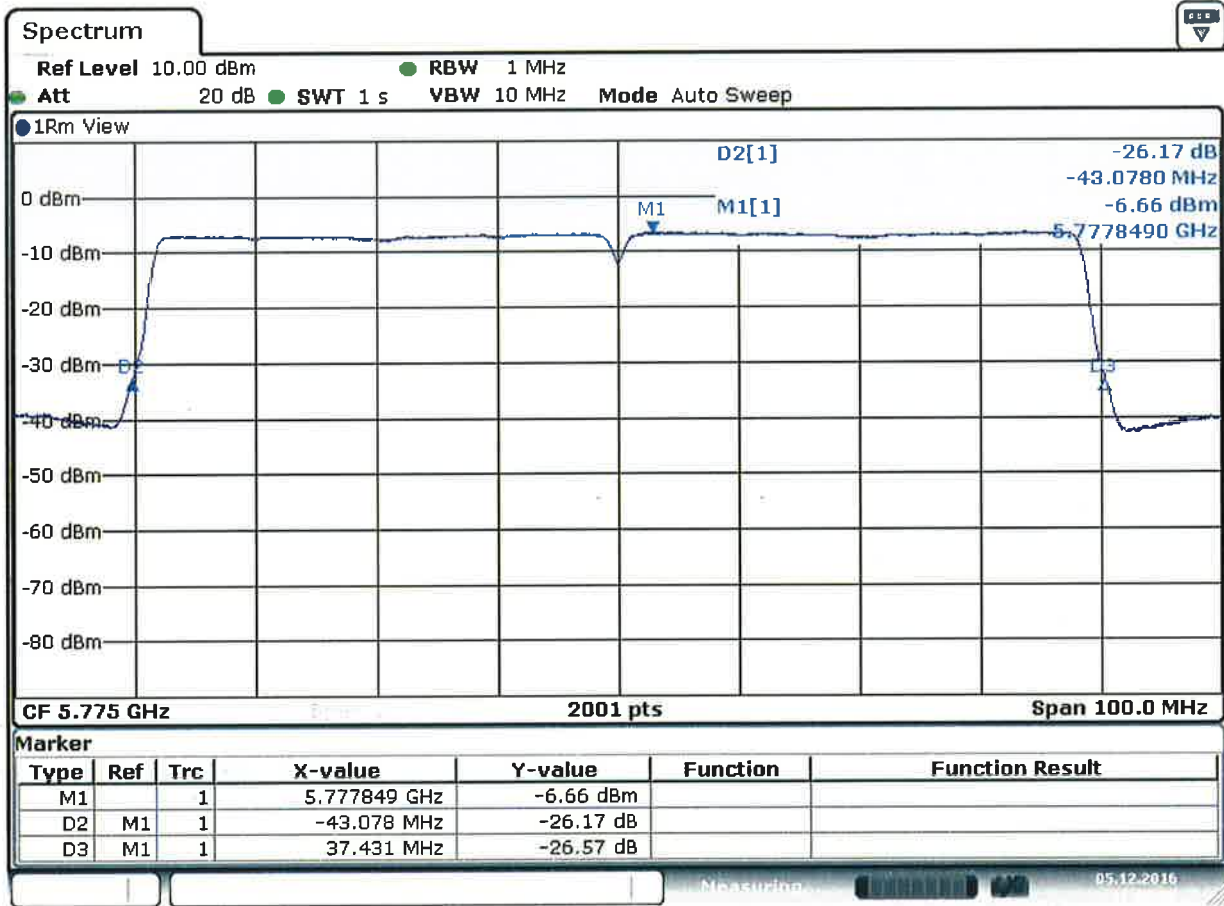
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149-161 (5725 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 15:09:59

26dB Bandwidth: 80,509 MHz

LIMIT SUBCLAUSE 15.407

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

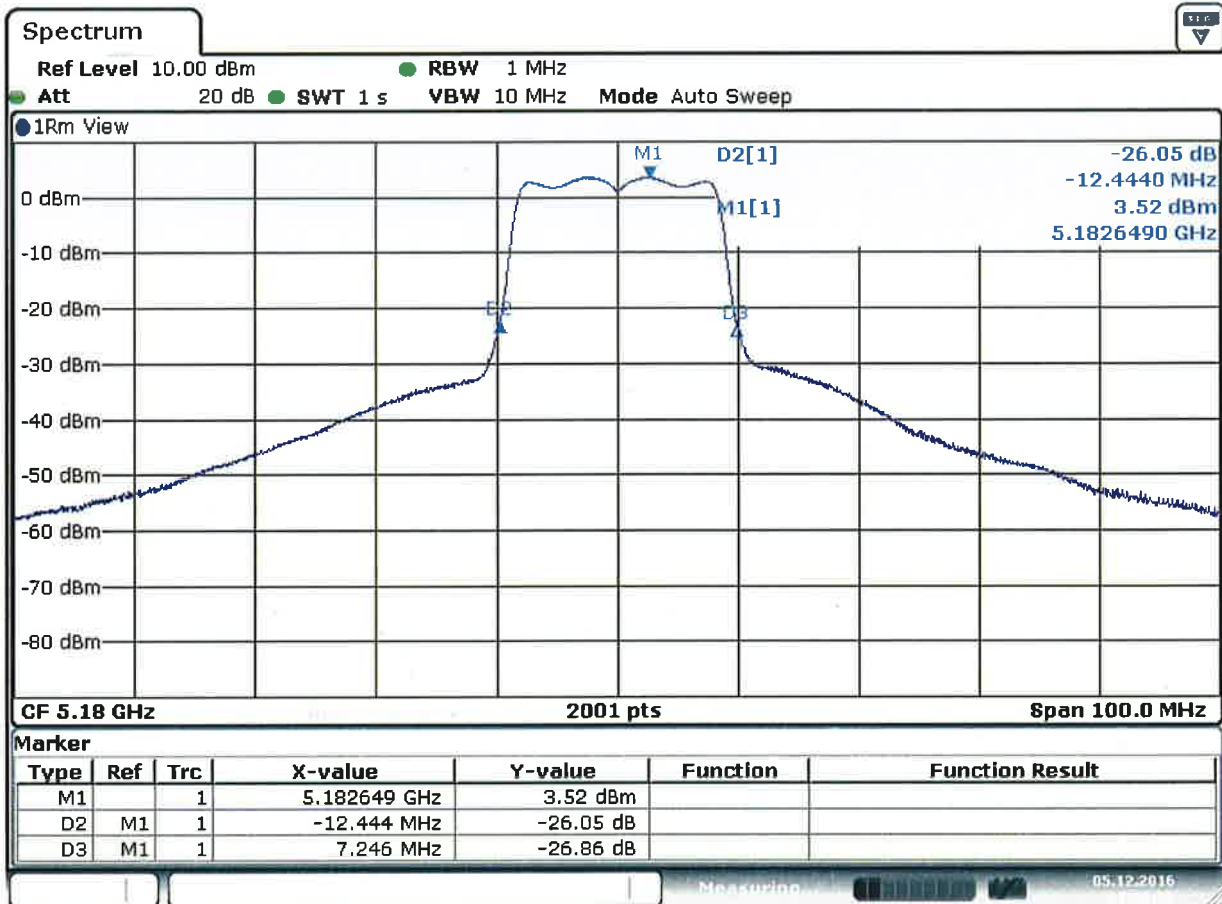
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36 (5180 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 15:50:56

26dB Bandwidth: 19,690 MHz

LIMIT SUBCLAUSE 15.407

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

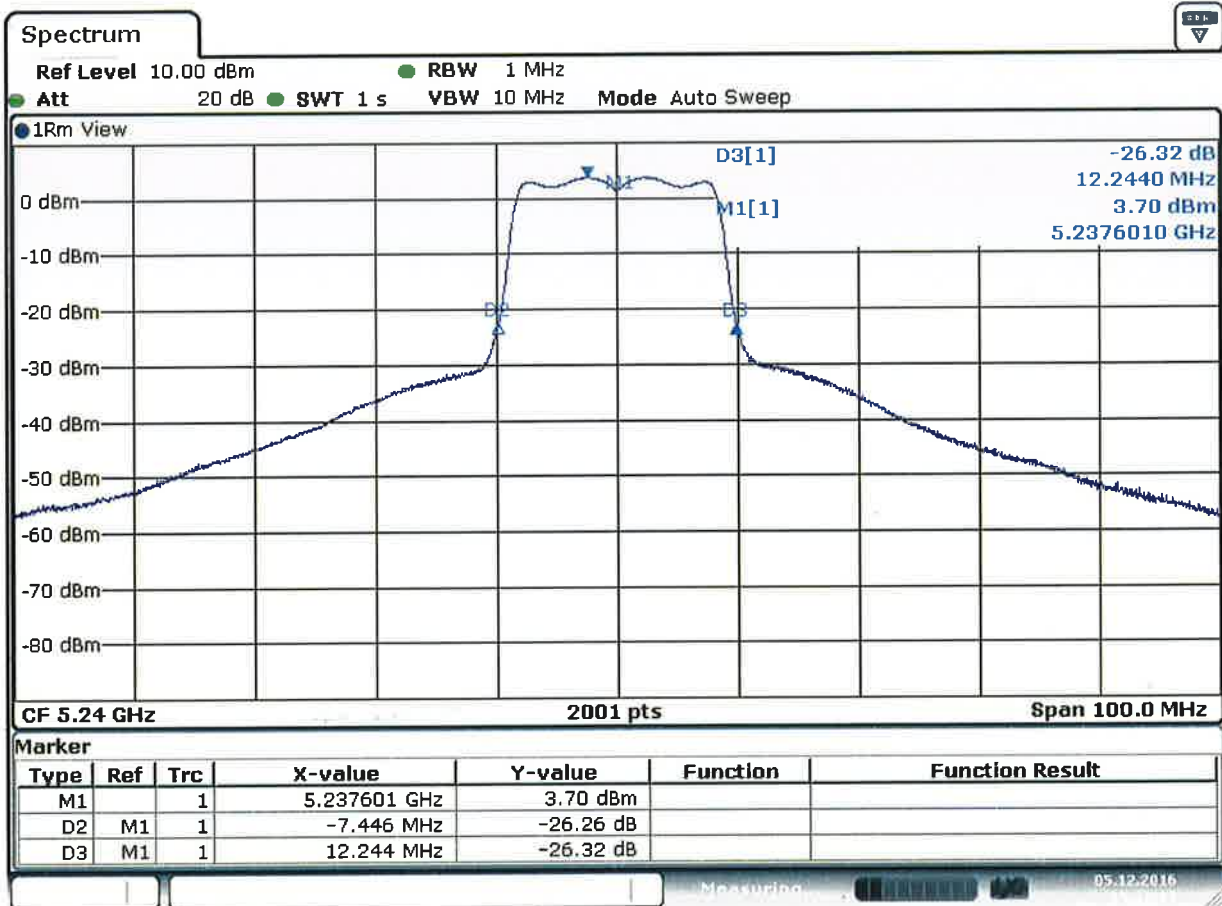
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 48 (5240 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 15:52:22

26dB Bandwidth: 19,690 MHz

LIMIT SUBCLAUSE 15.407

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

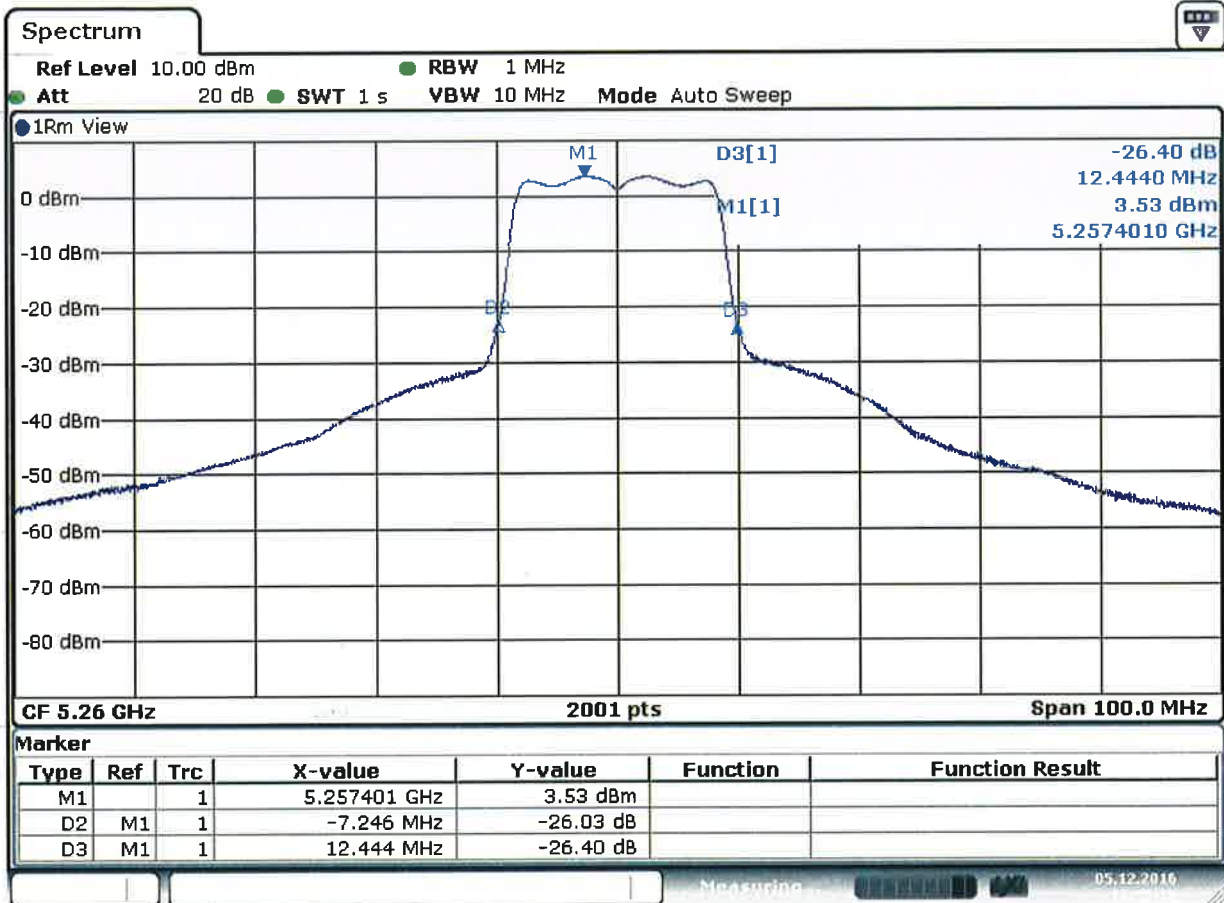
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52 (5260 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 15:55:19

26dB Bandwidth: 19,690 MHz

LIMIT SUBCLAUSE 15.407

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

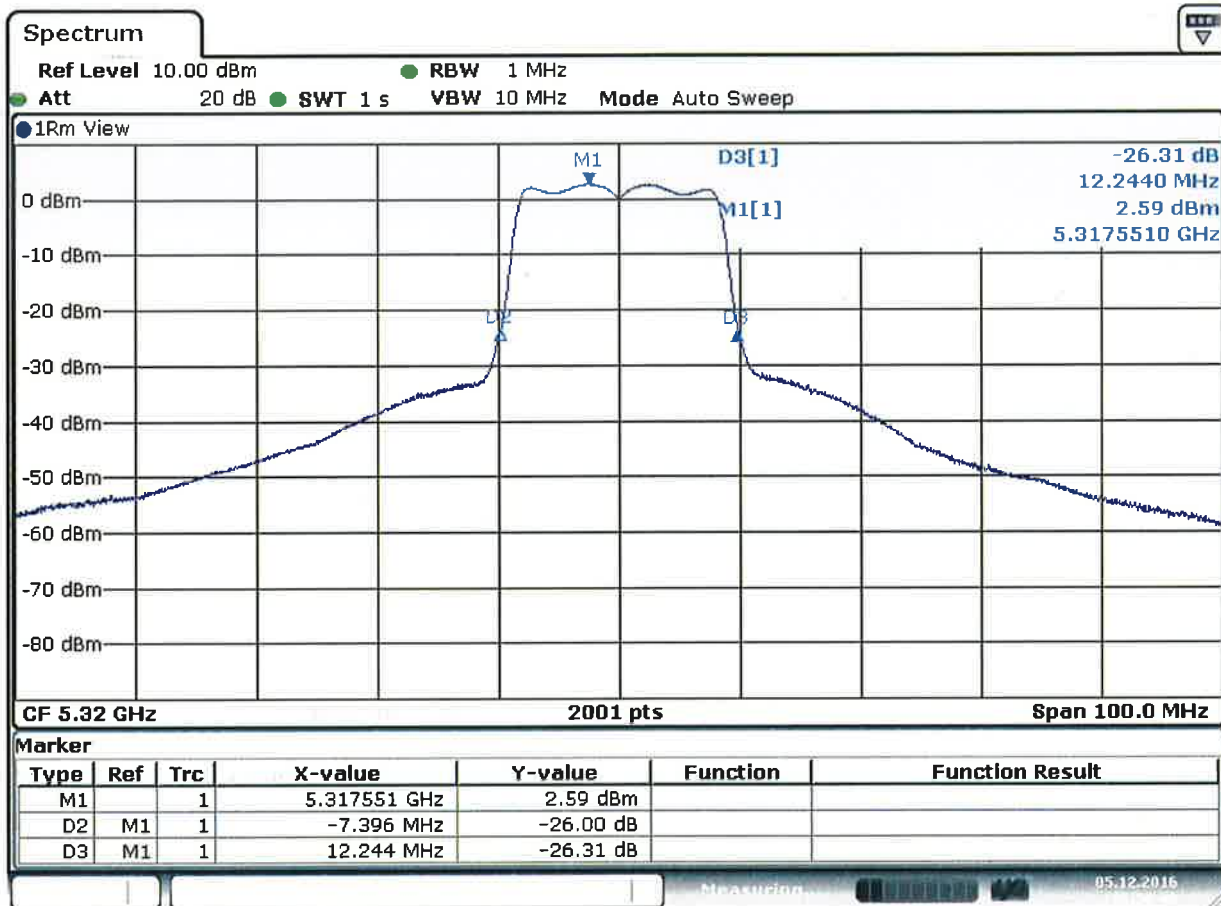
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 64 (5320 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 15:56:49

26dB Bandwidth: 19,640 MHz

LIMIT SUBCLAUSE 15.407

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

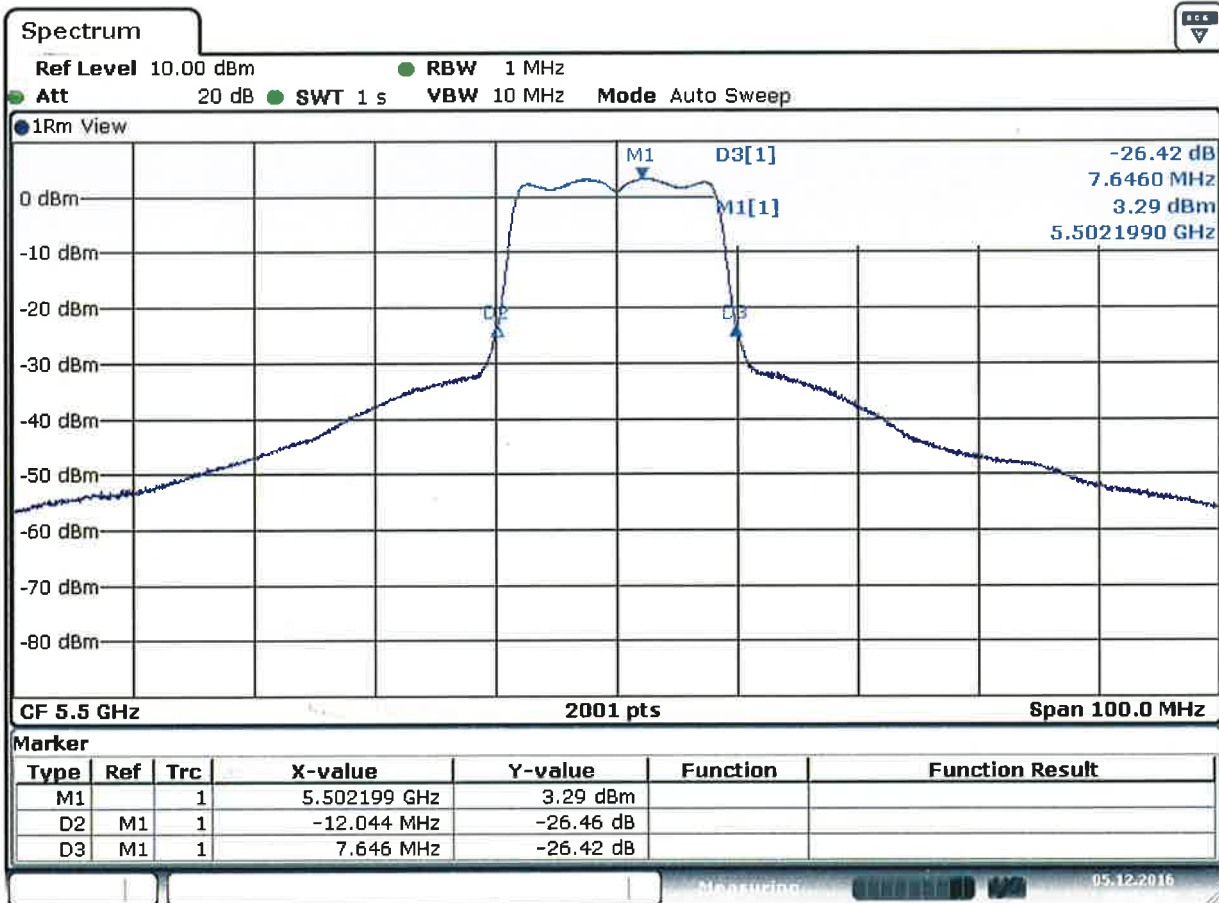
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100 (5500 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:01:11

26dB Bandwidth: 19,690 MHz

LIMIT SUBCLAUSE 15.407

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

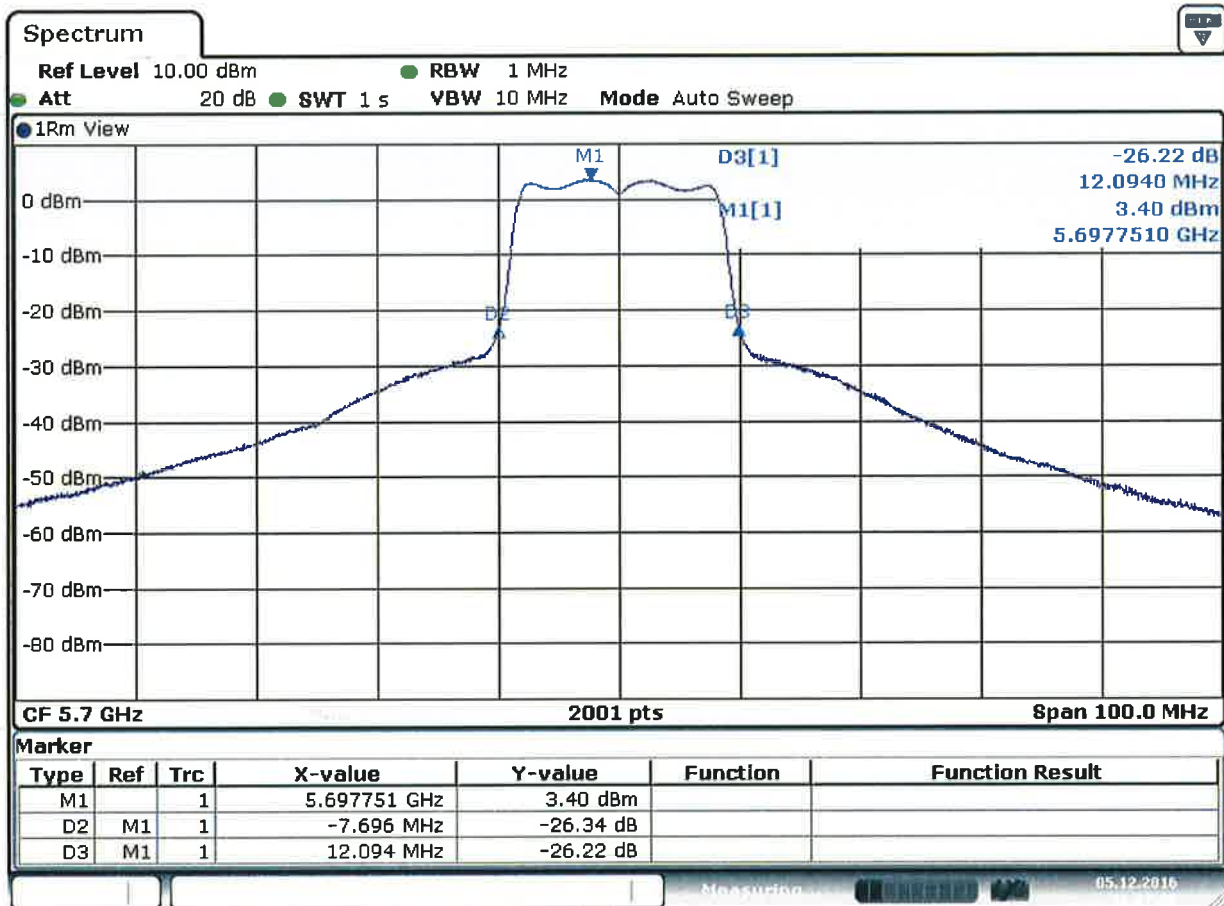
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 140 (5700 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:02:41

26dB Bandwidth: 19,790 MHz

LIMIT SUBCLAUSE 15.407

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

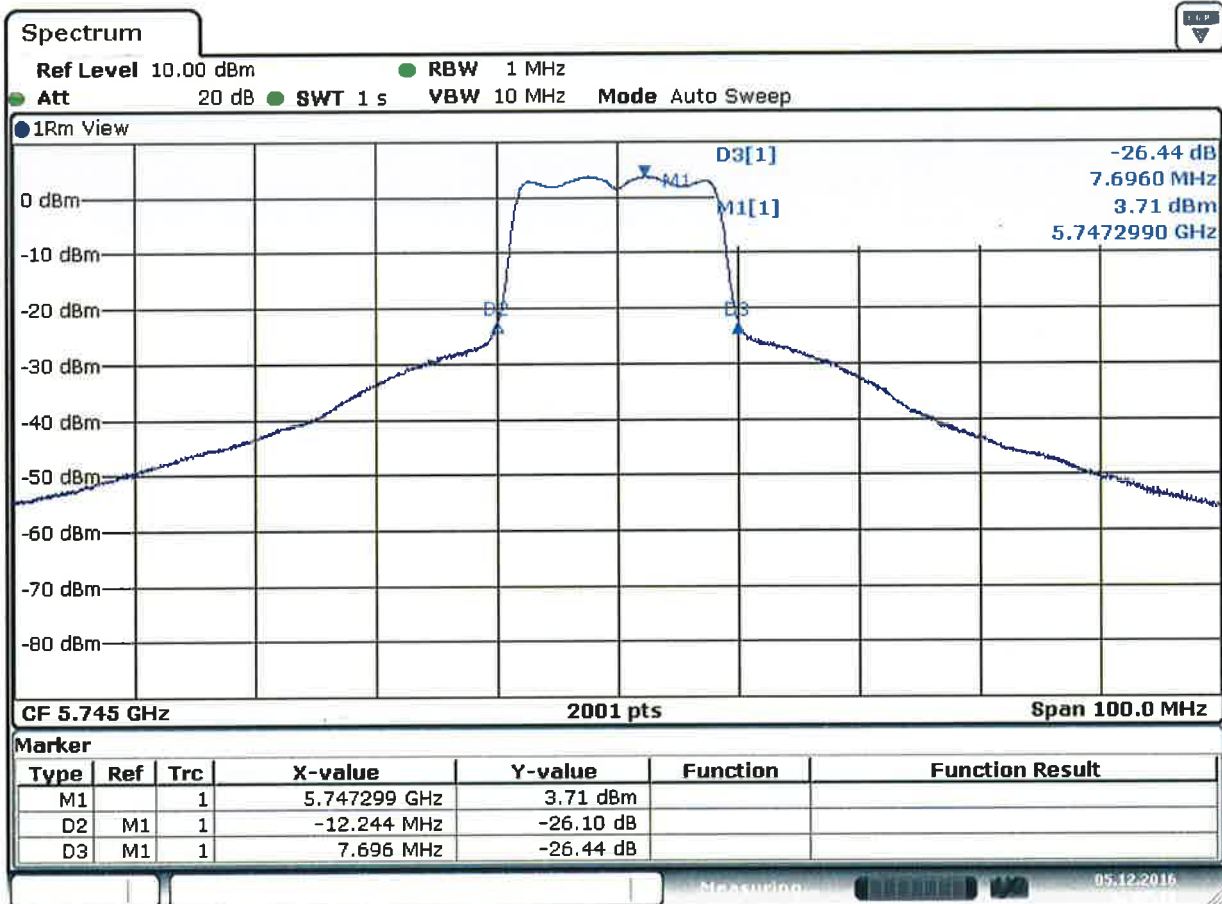
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149 (5745 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:07:19

26dB Bandwidth: 19,940 MHz

LIMIT SUBCLAUSE 15.407

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

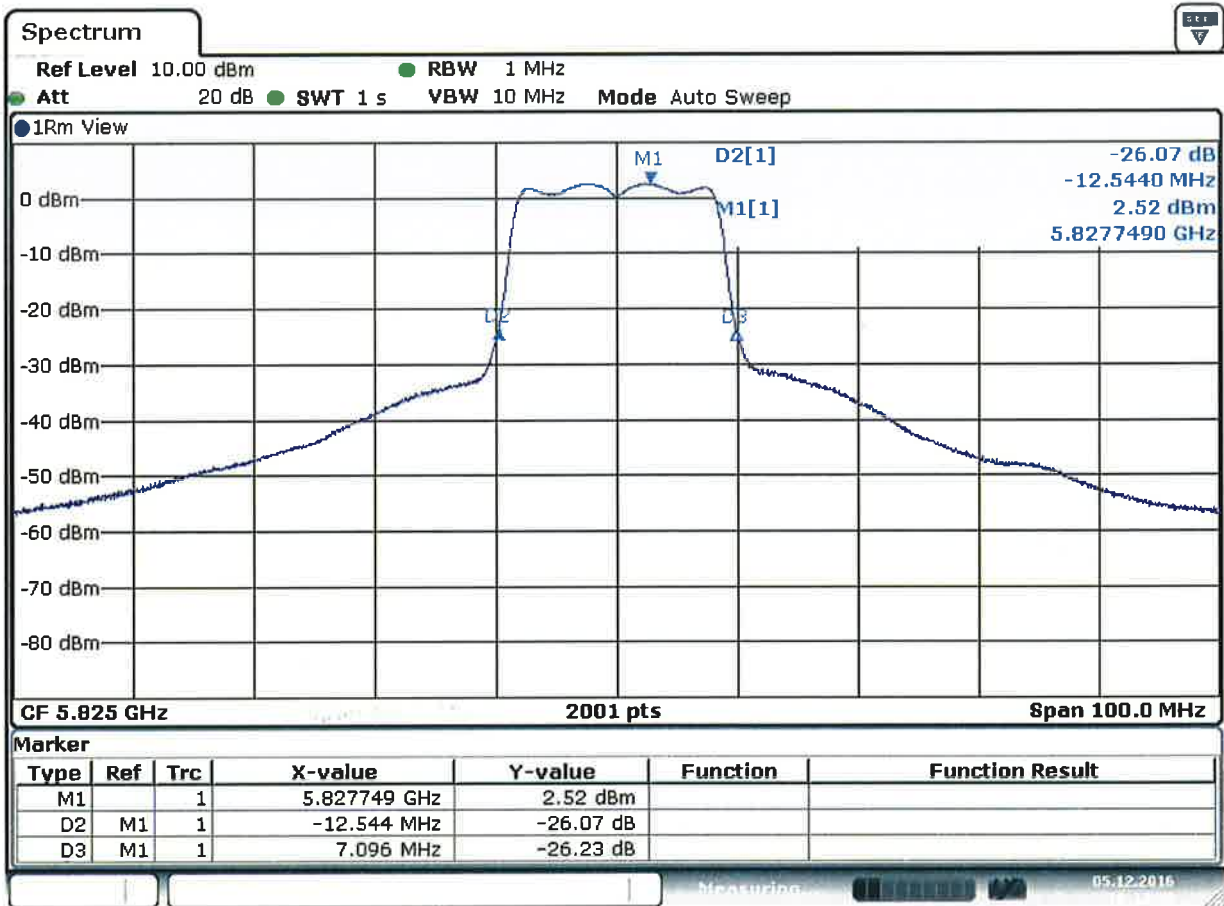
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 165 (5825 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:12:20

26dB Bandwidth: 19,640 MHz

LIMIT SUBCLAUSE 15.407

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

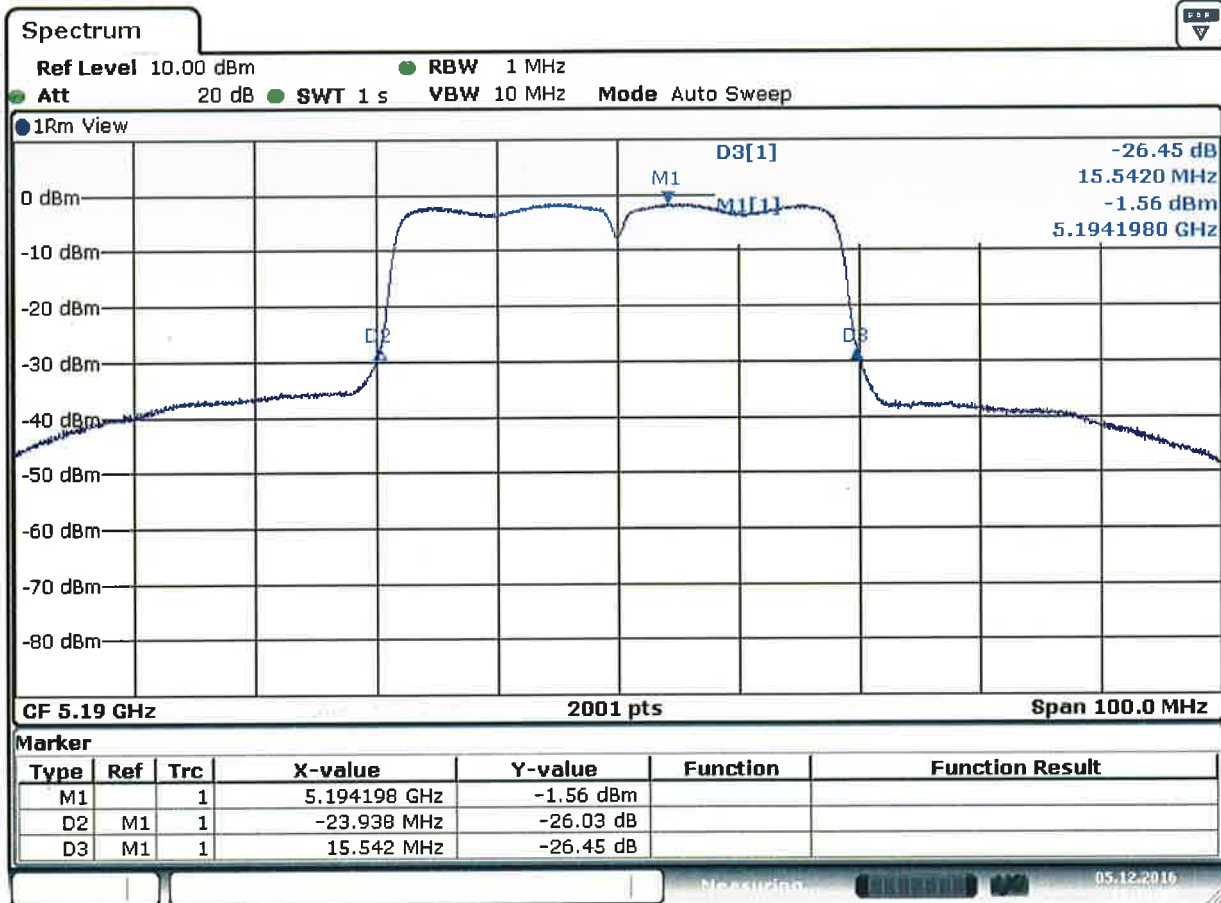
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36-40 (5190 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:13:55

26dB Bandwidth: 39,480 MHz

LIMIT SUBCLAUSE 15.407

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

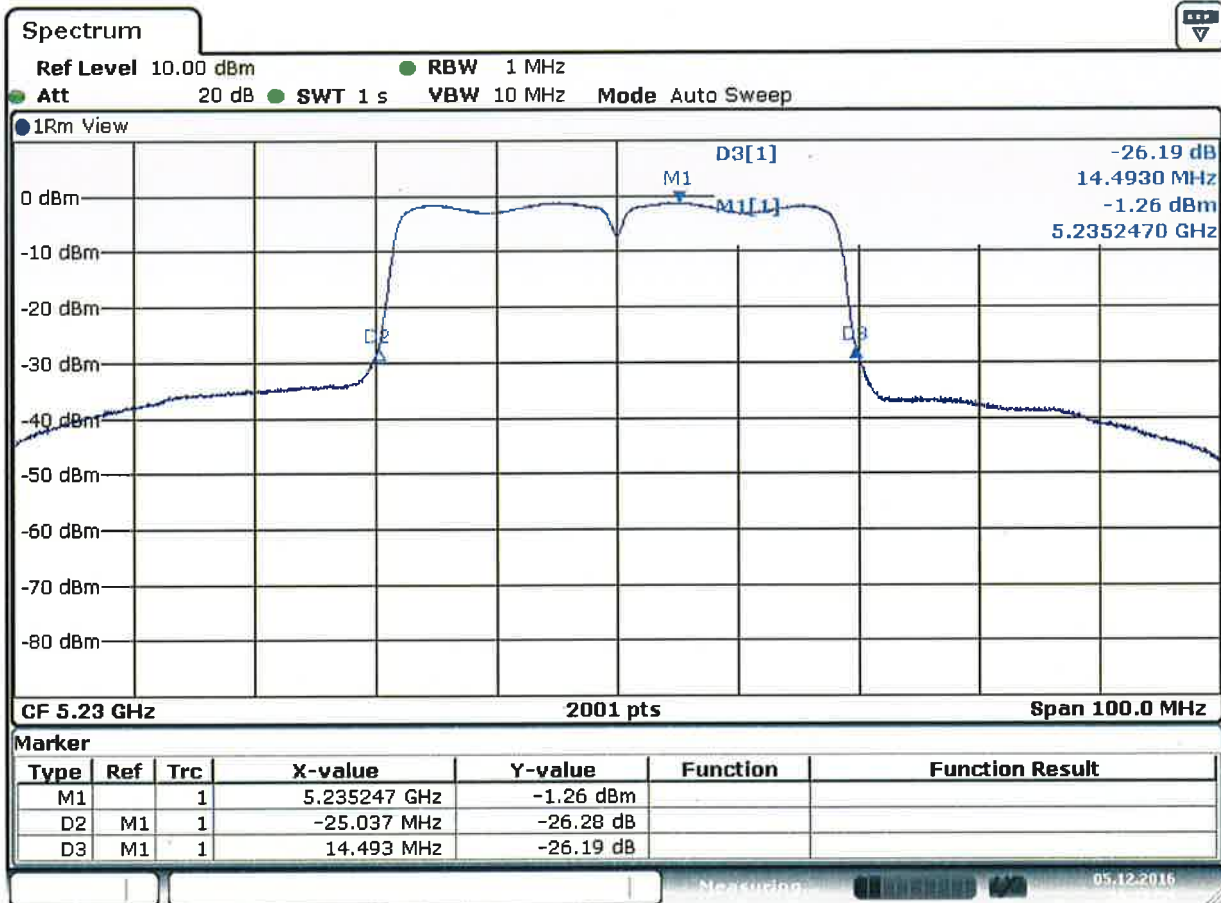
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 44-48 (5230 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:16:55

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

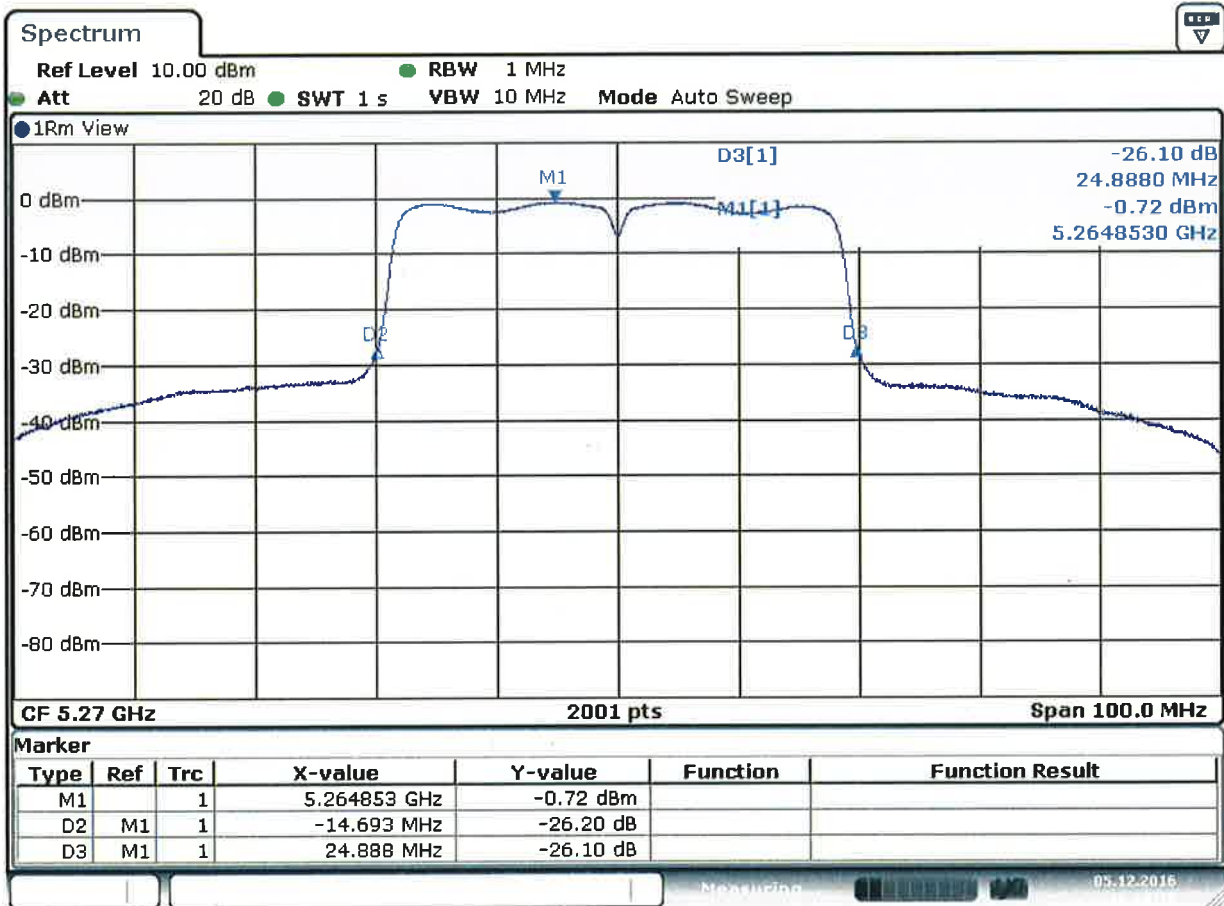
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52-56 (5270 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:18:10

26dB Bandwidth: 39,581 MHz

LIMIT SUBCLAUSE 15.407

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

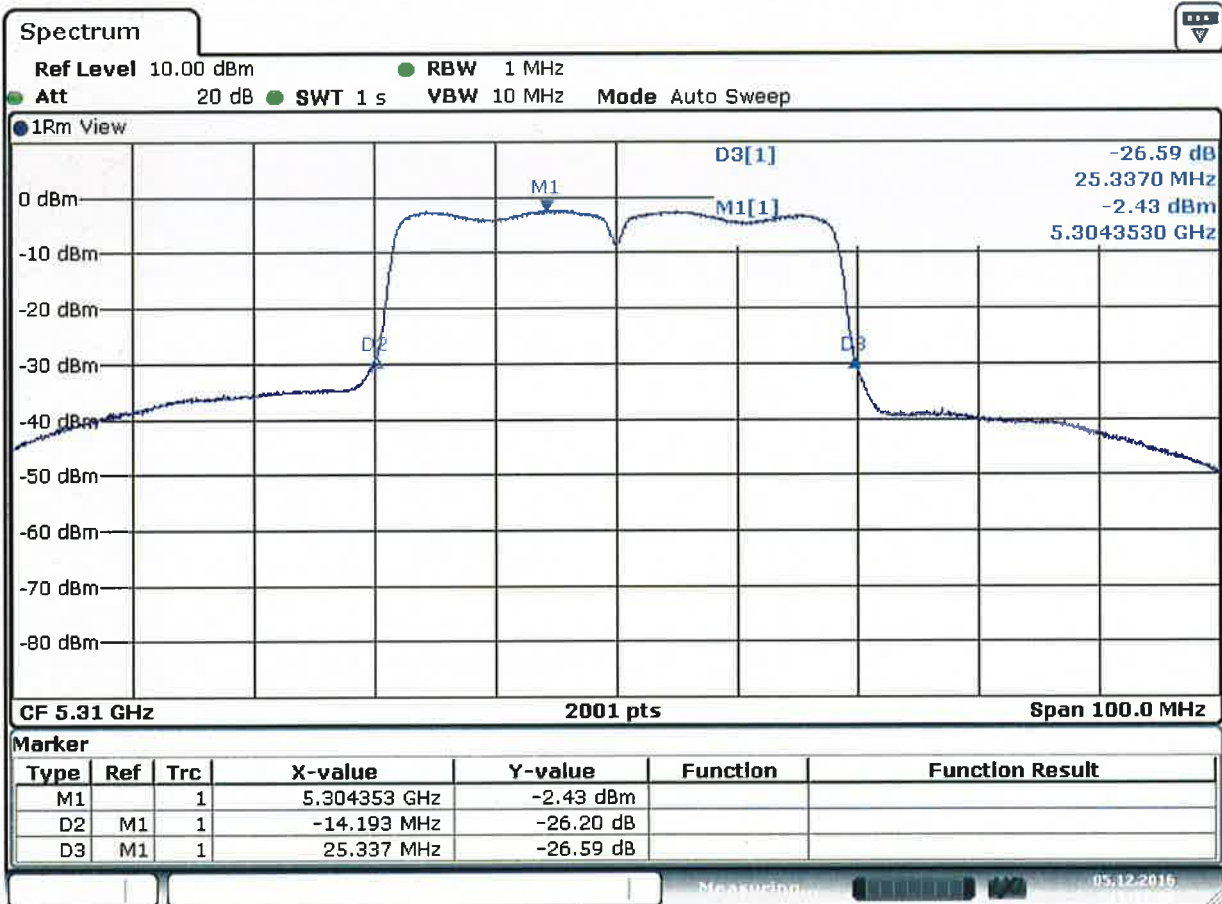
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 60-64 (5310 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:37:41

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

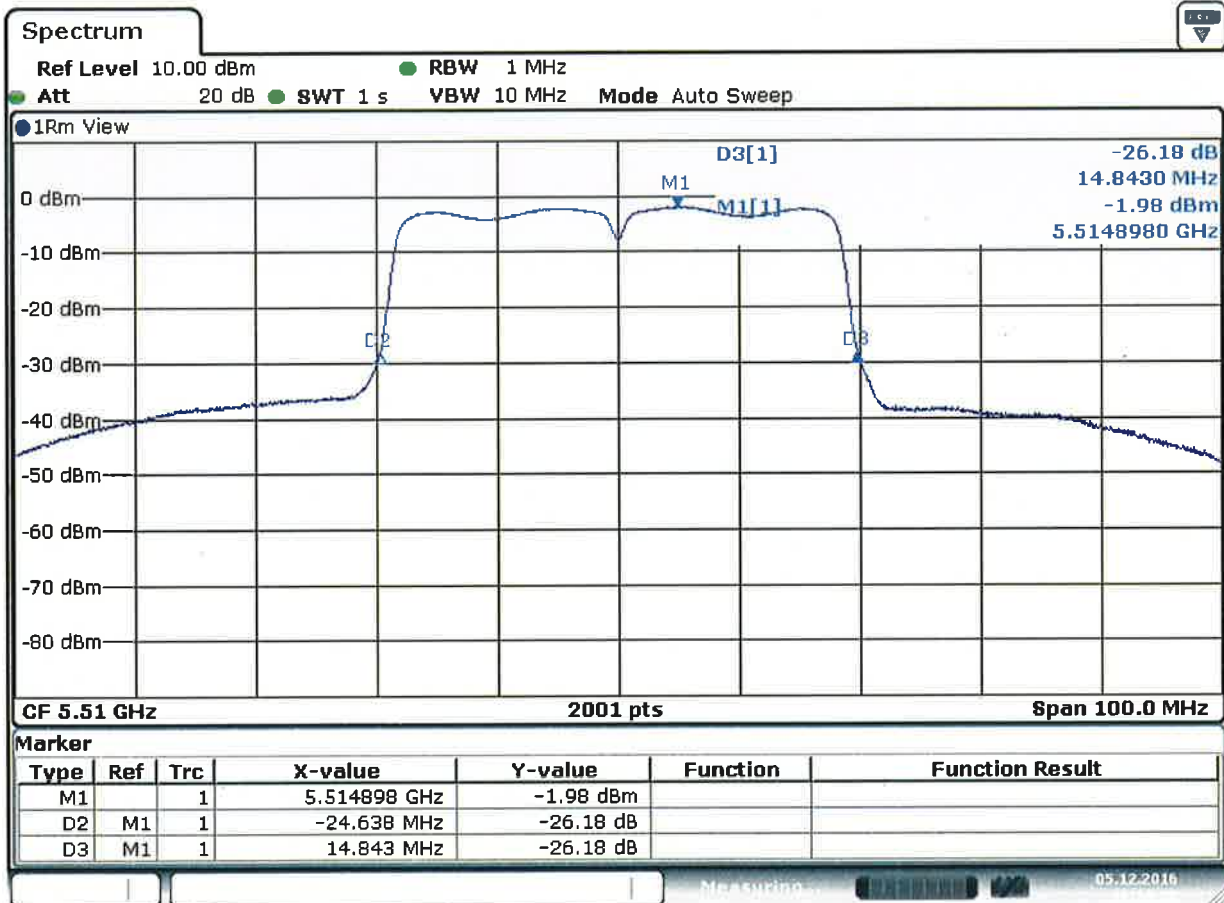
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100-104 (5510 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:38:58

26dB Bandwidth: 39,481 MHz

LIMIT SUBCLAUSE 15.407

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

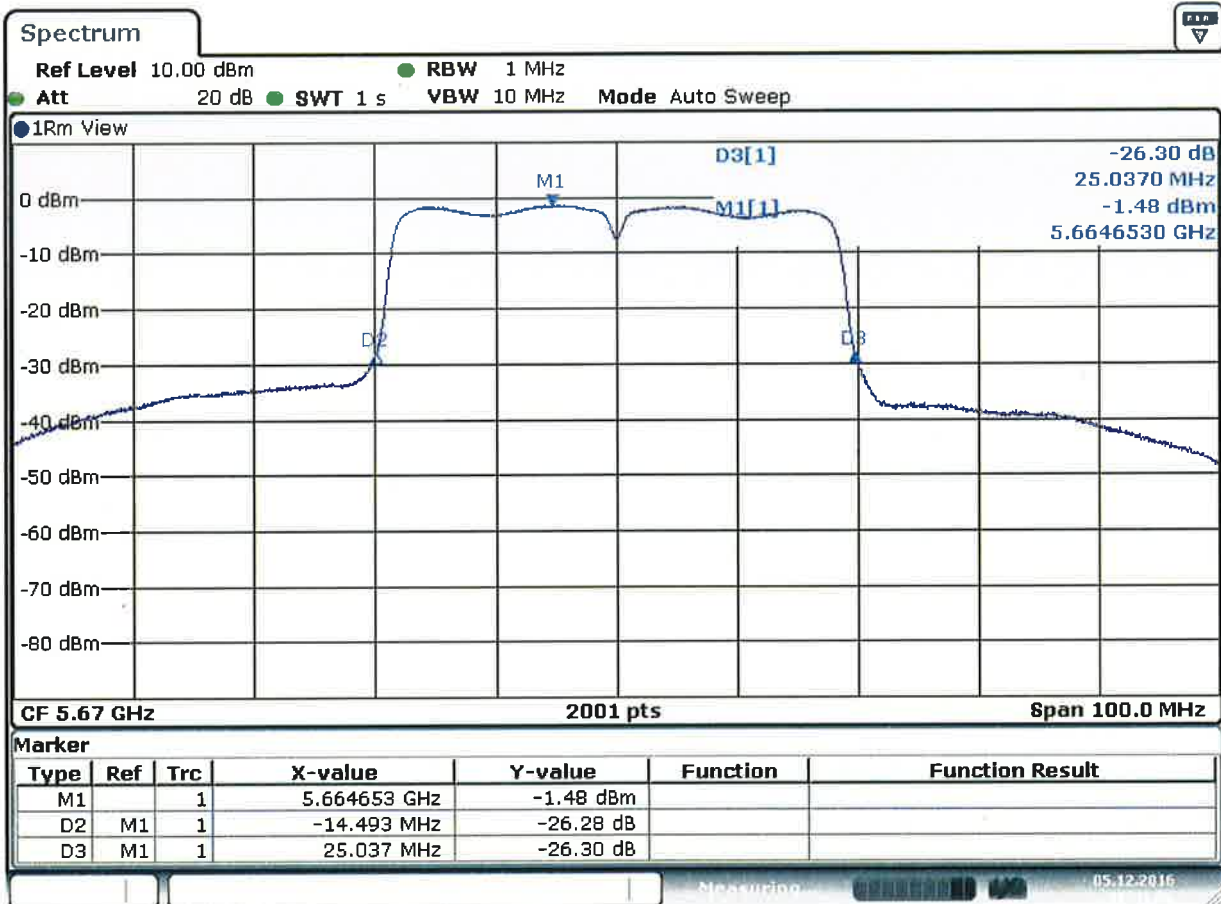
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 132-136 (5670 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:41:53

26dB Bandwidth: 39,530 MHz

LIMIT SUBCLAUSE 15.407

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

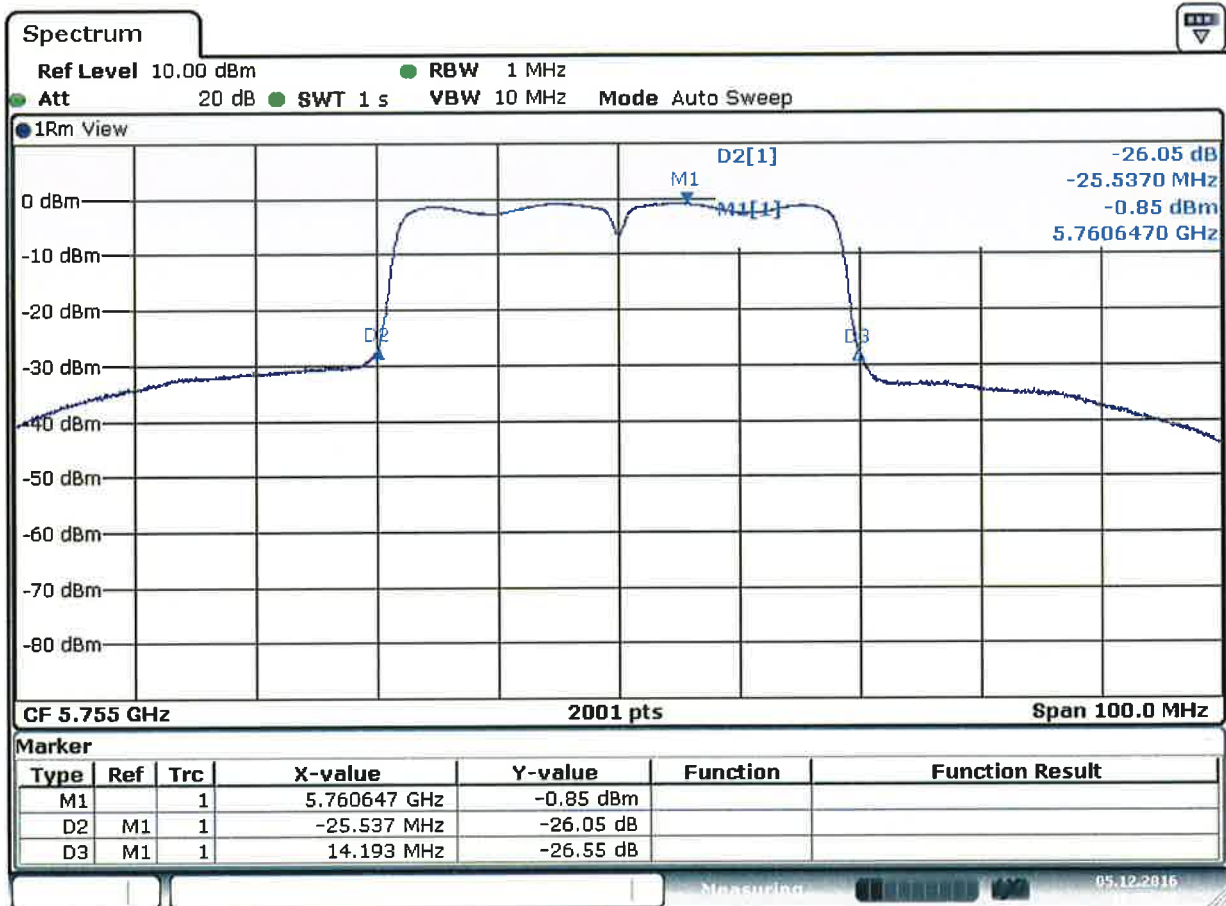
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149-153 (5755 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:44:22

26dB Bandwidth: 39,730 MHz

LIMIT SUBCLAUSE 15.407

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

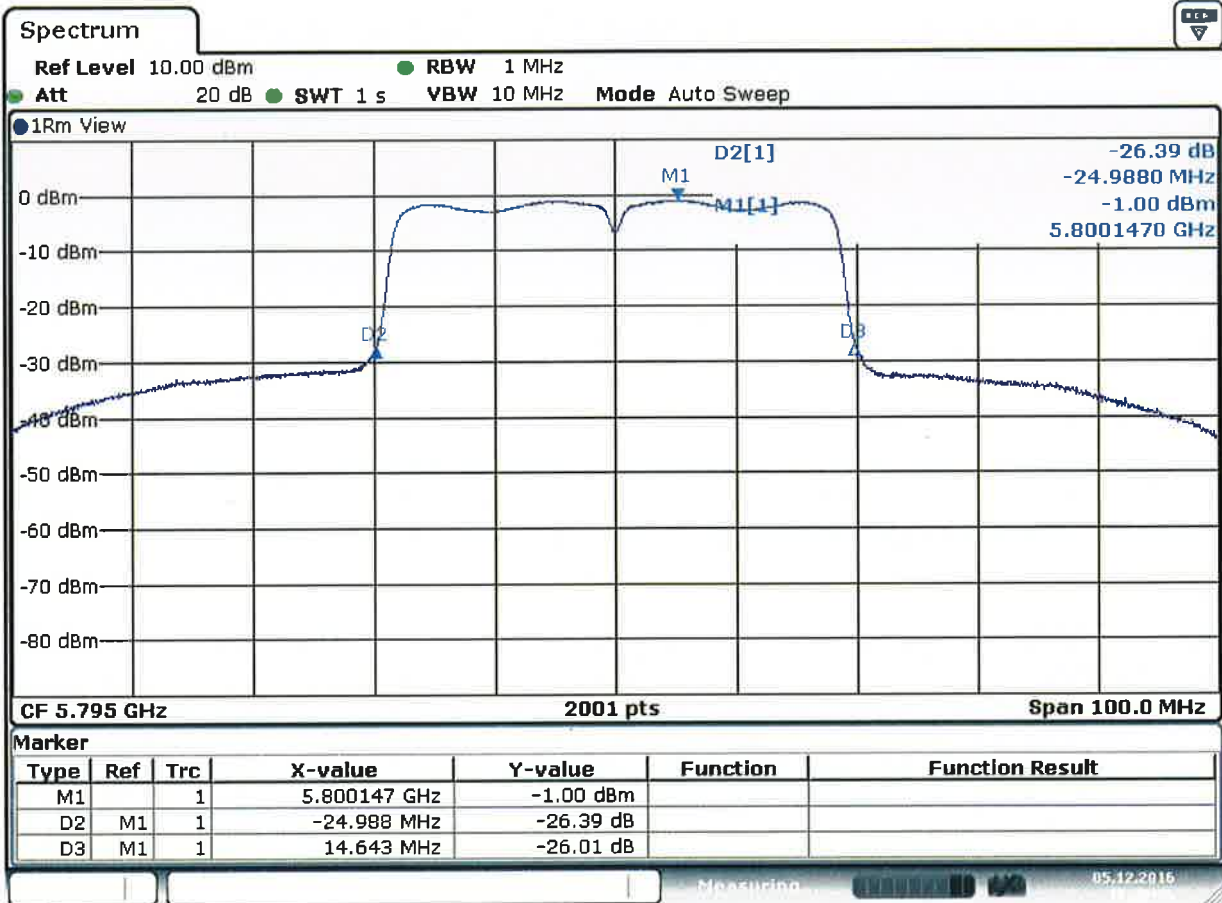
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 157-161 (5795 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 16:48:46

26dB Bandwidth: 39,631 MHz

LIMIT SUBCLAUSE 15.407

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

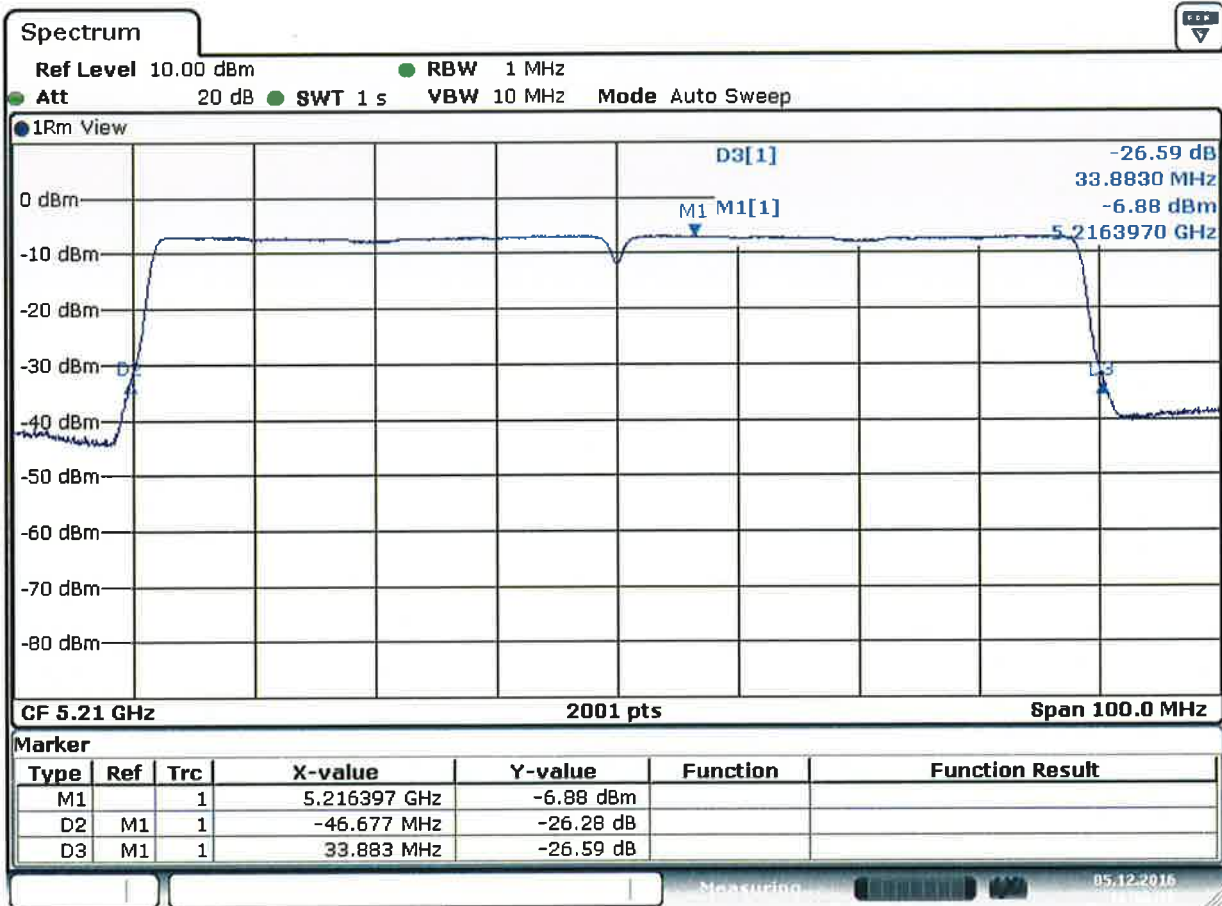
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 36-48 (5210 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:50:10

26dB Bandwidth: 80,560 MHz

LIMIT SUBCLAUSE 15.407

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

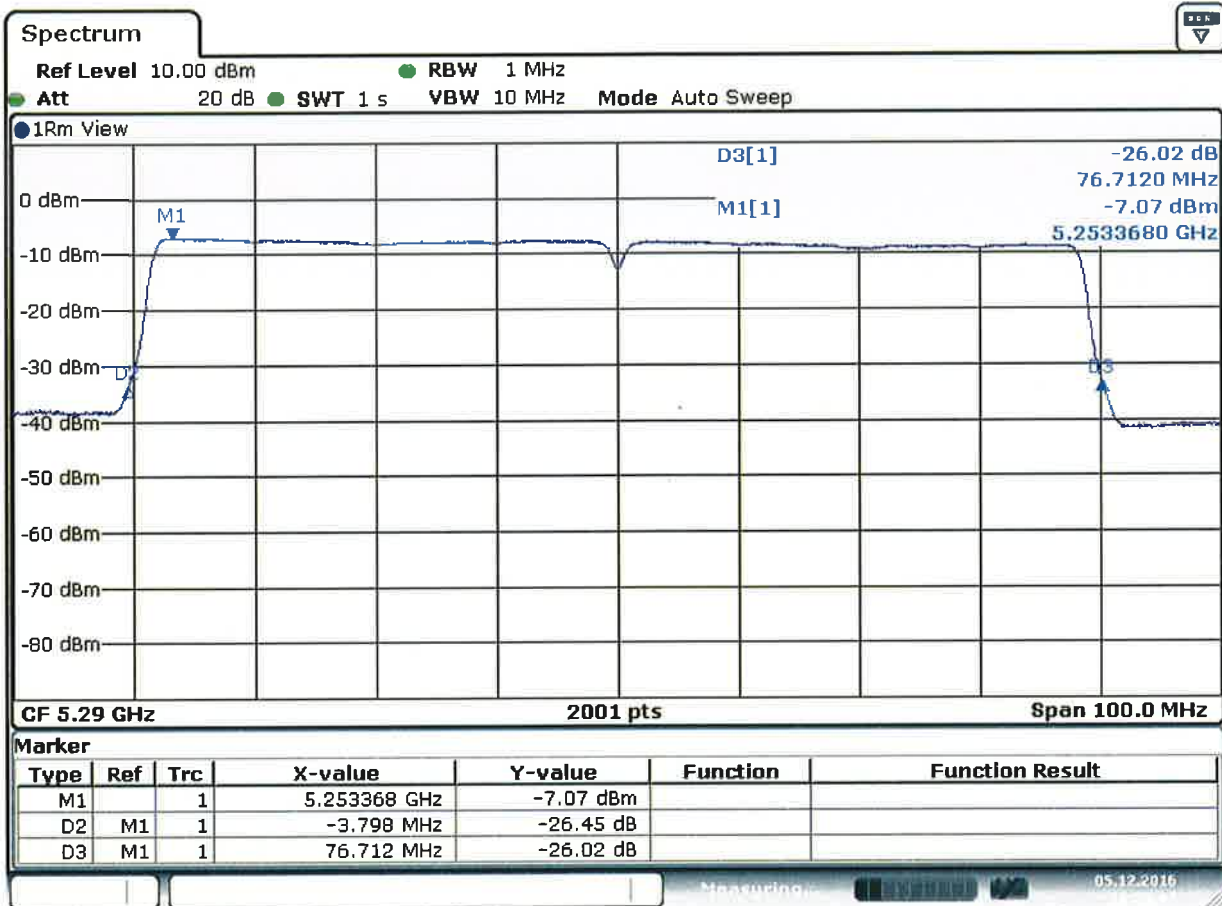
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 52-64 (5290 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:53:02

26dB Bandwidth: 80,510 MHz

LIMIT SUBCLAUSE 15.407

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

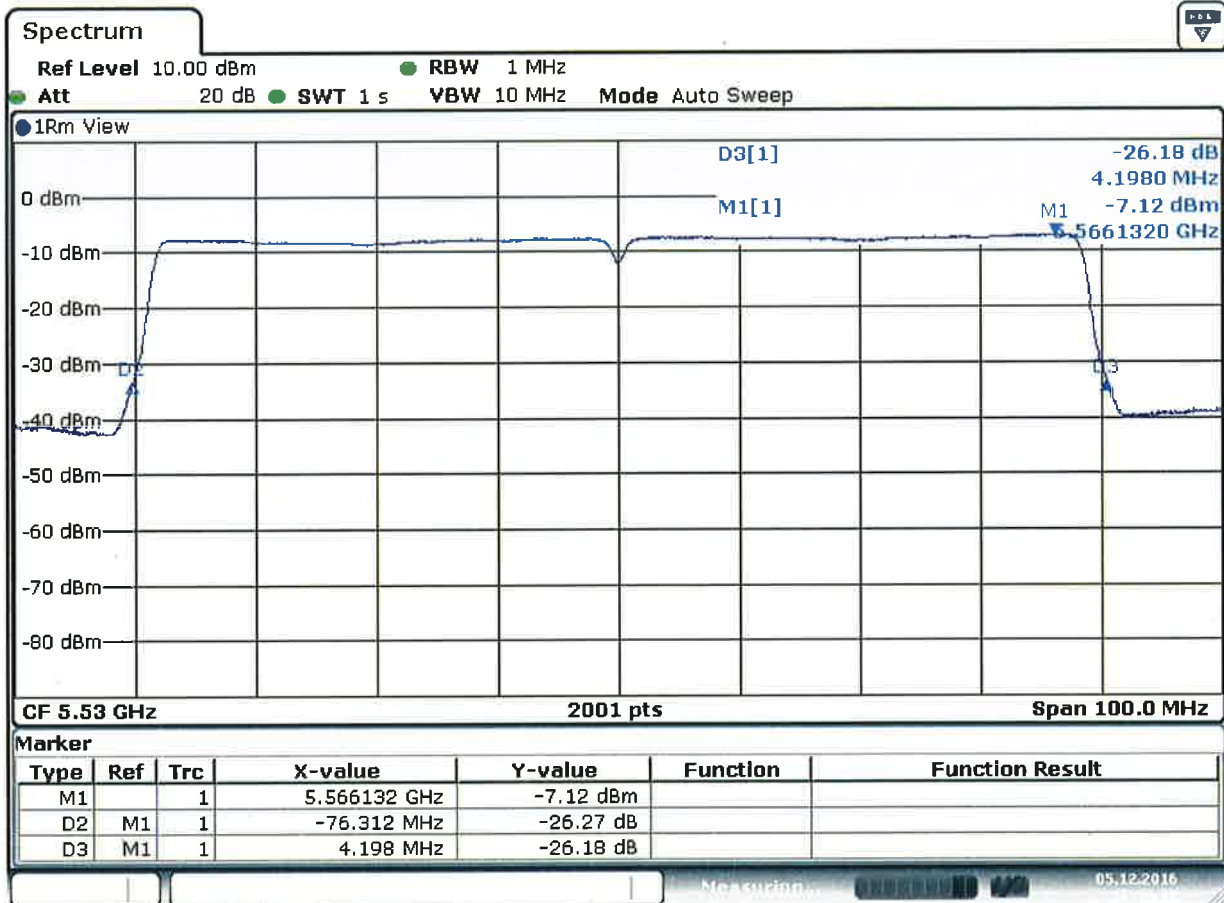
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 100-112 (5530 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:54:19

26dB Bandwidth: 80,510 MHz

LIMIT SUBCLAUSE 15.407

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

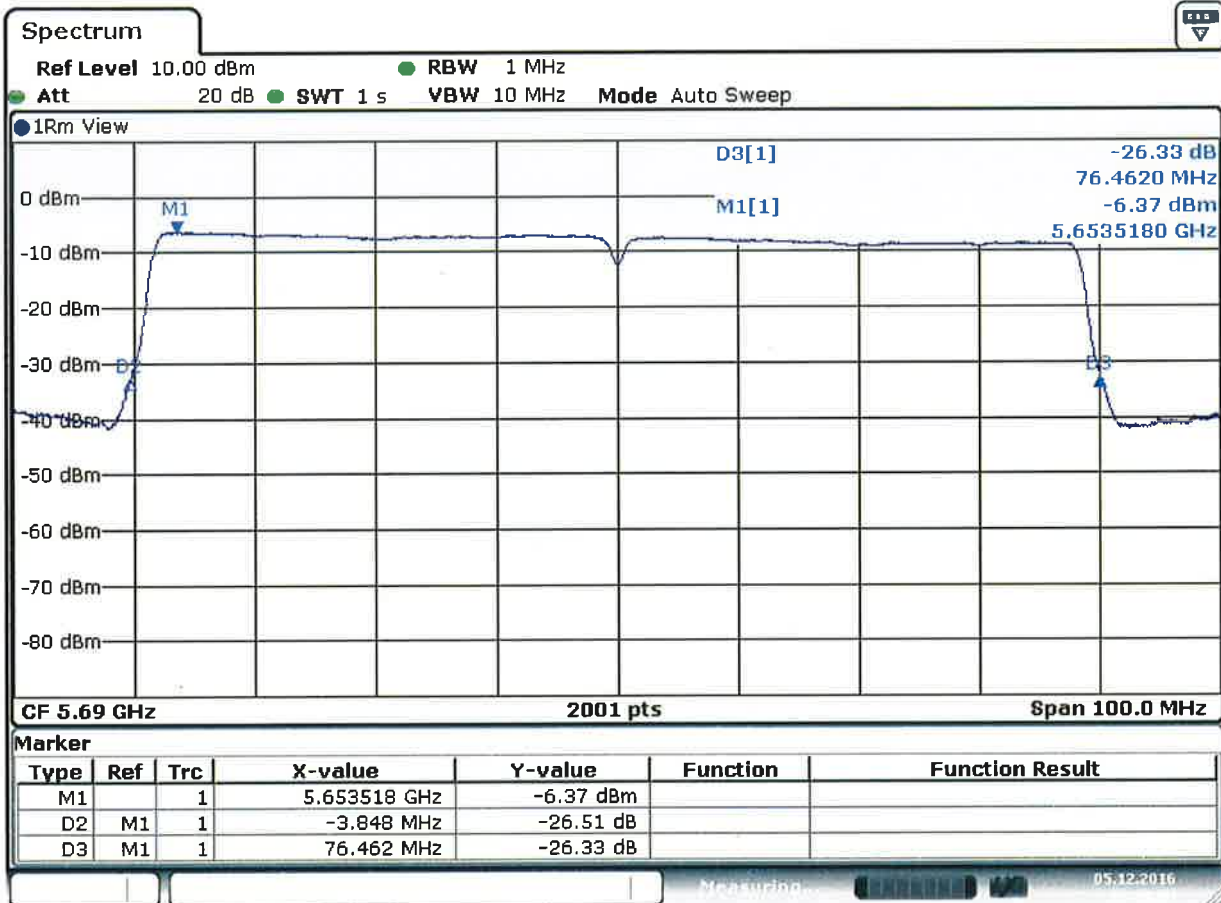
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 132-144 (5690 MHz center frequency) – Antenna 2



Date: 5.DEC.2016 16:58:05

26dB Bandwidth: 80,310 MHz

LIMIT SUBCLAUSE 15.407

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

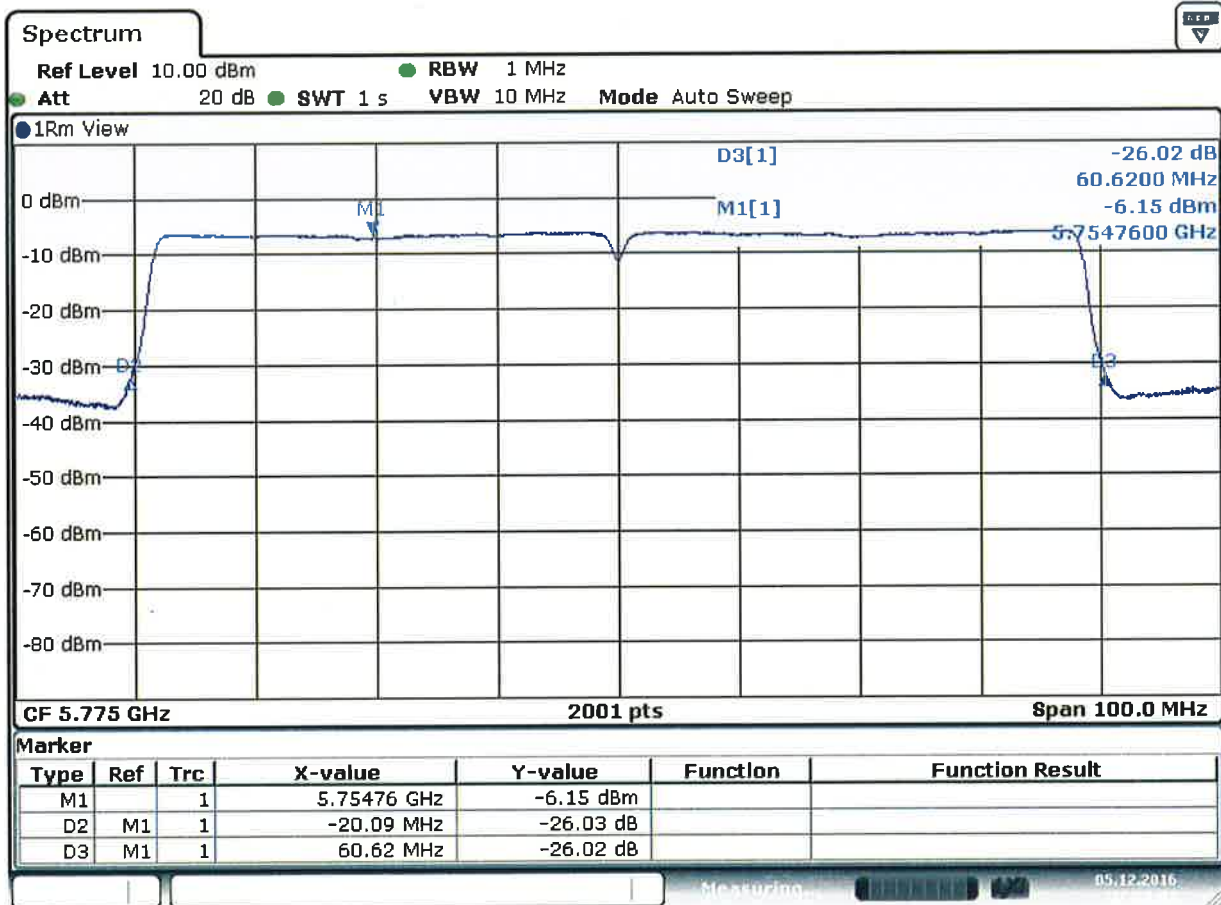
Test Equipment used: EMV-205

26dB Bandwidth

§ 15.407

Conducted Measurement

Rated output power: 38,9 mW Channel 149-161 (5725 MHz center frequency) – Antenna 2



Date: 5 DEC 2016 17:00:02

26dB Bandwidth: 80,710 MHz

LIMIT SUBCLAUSE 15.407

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

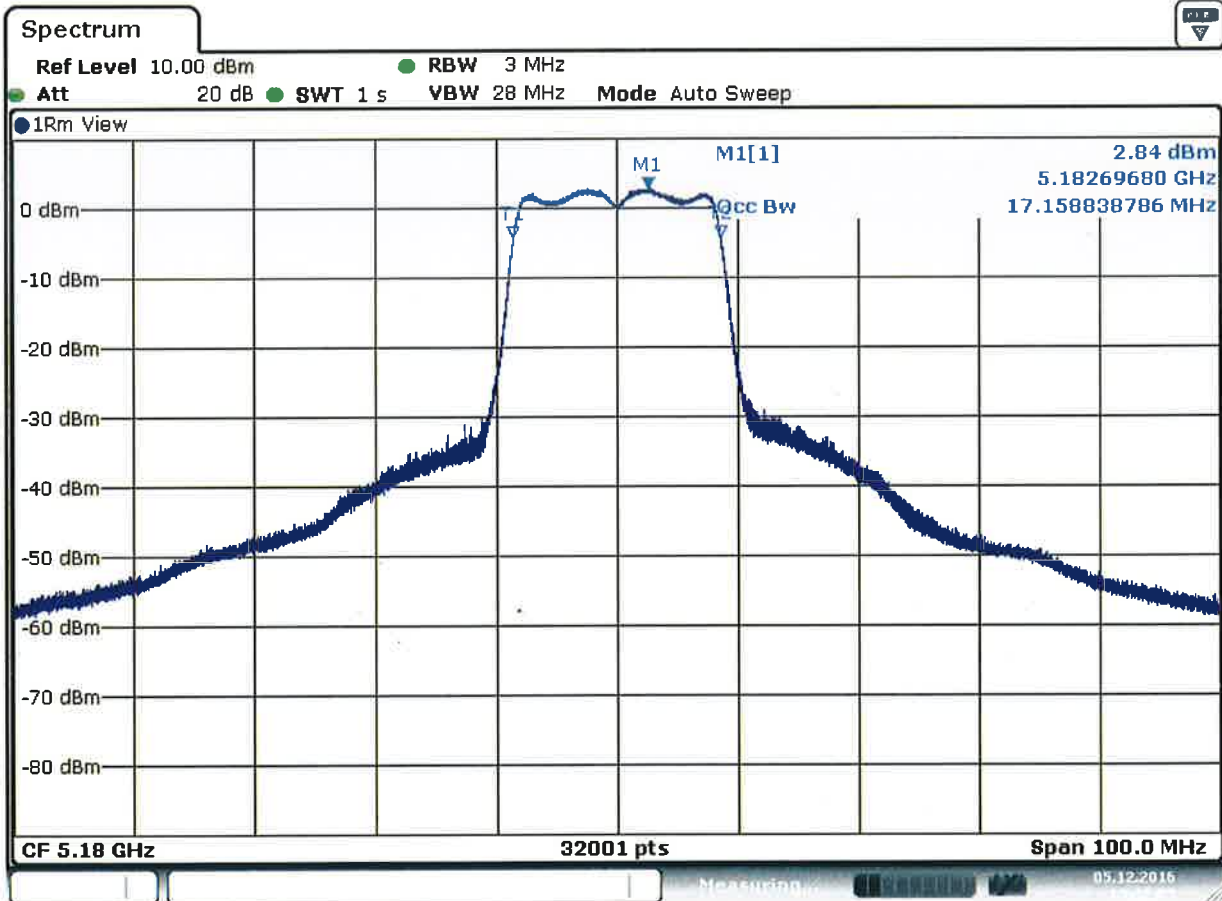
Test Equipment used: EMV-205

99% Bandwidth

§ 6.2.1 (1)

Conducted Measurement

Rated output power: 38,9 mW Channel 36 (5180 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:33:00

99% Bandwidth: 17,159 MHz

LIMIT SUBCLAUSE 15.407

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	99% Bandwidth fully inside permitted frequency ranges
---	---

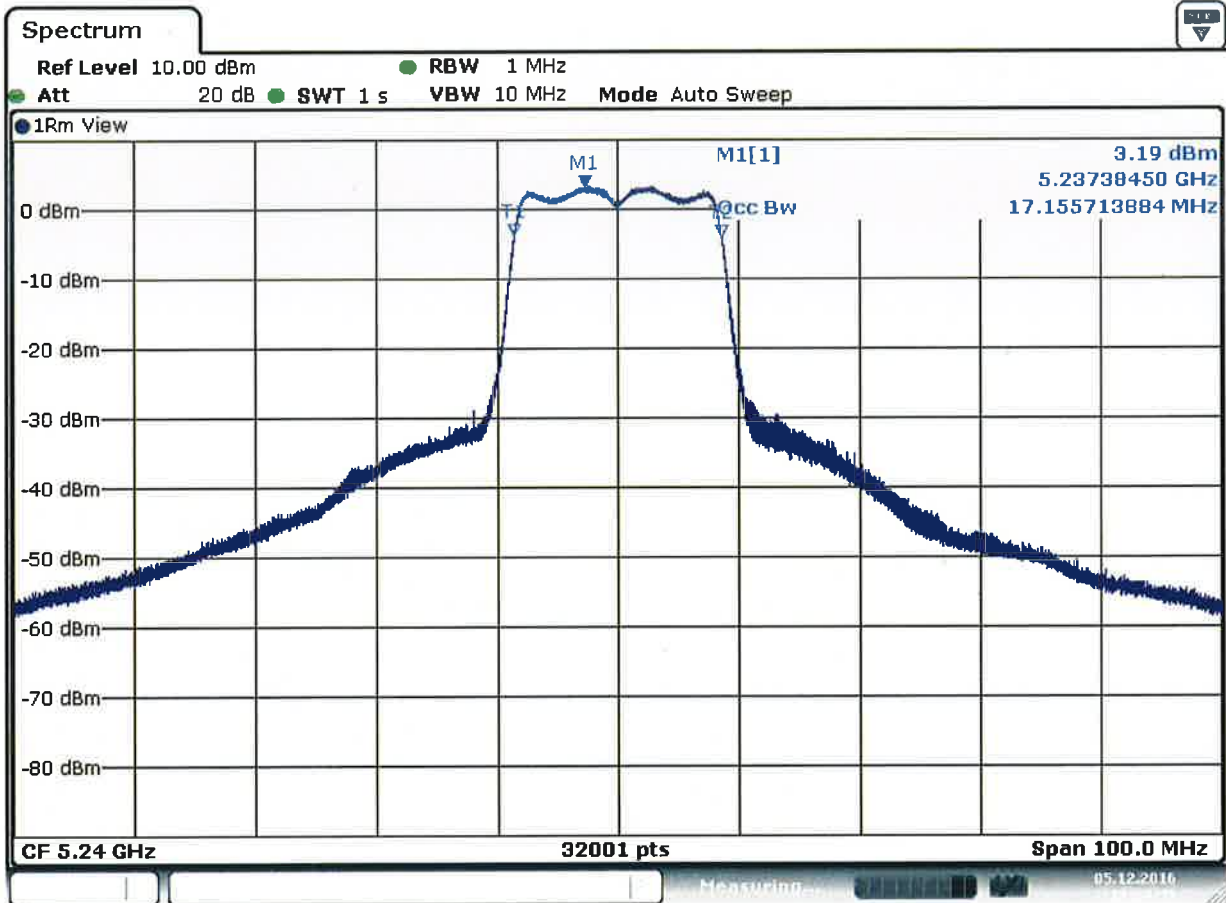
Test Equipment used: EMV-205

99% Bandwidth

§ 6.2.1 (1)

Conducted Measurement

Rated output power: 38,9 mW Channel 48 (5240 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:34:39

99% Bandwidth: 17,156 MHz

LIMIT SUBCLAUSE 15.407 – 6.2.1 (2)

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	99% Bandwidth fully inside permitted frequency ranges
---	---

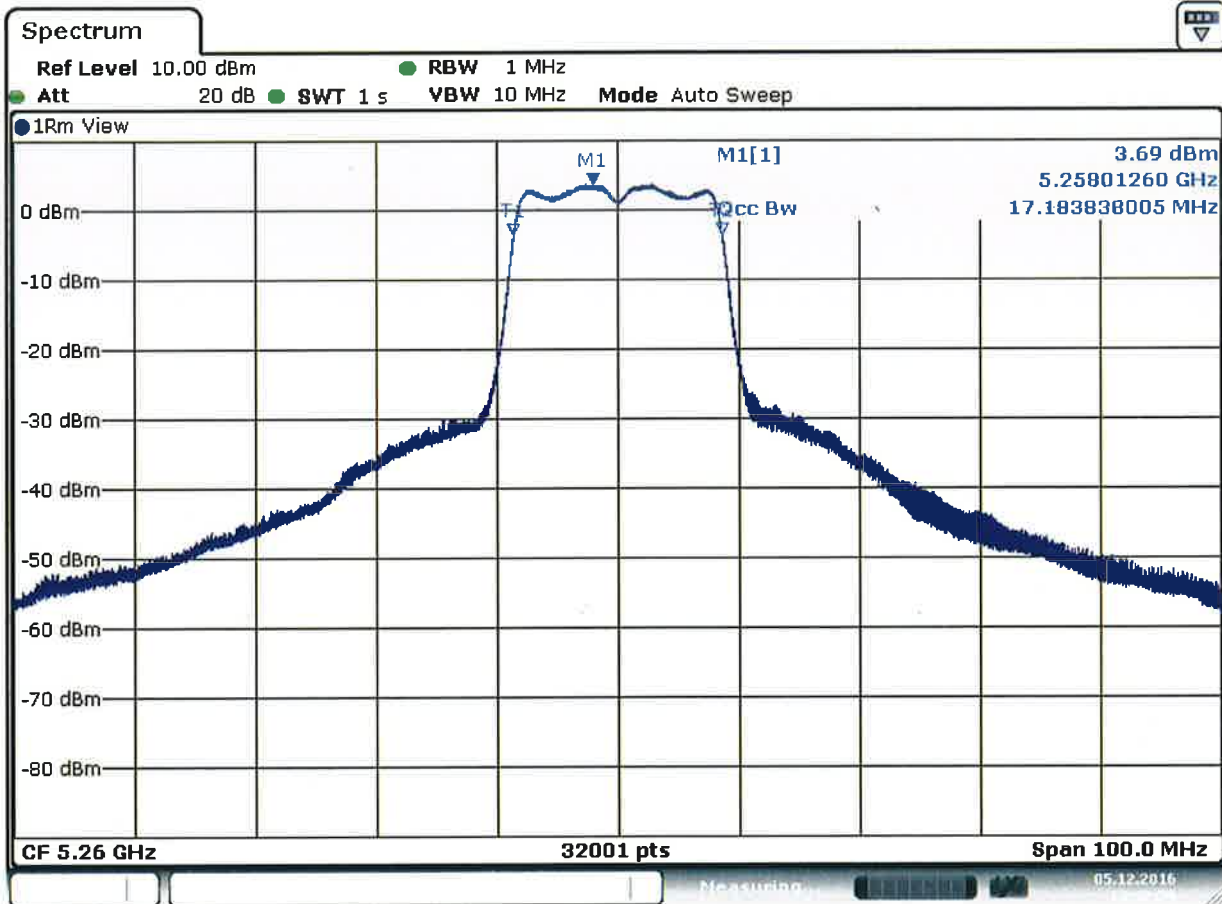
Test Equipment used: EMV-205

99% Bandwidth

§ 6.2.2 (1)

Conducted Measurement

Rated output power: 38,9 mW Channel 52 (5260 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:42:59

99% Bandwidth: 17,184 MHz

LIMIT SUBCLAUSE 15.407 – 6.2.1 (2)

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	99% Bandwidth fully inside permitted frequency ranges
---	---

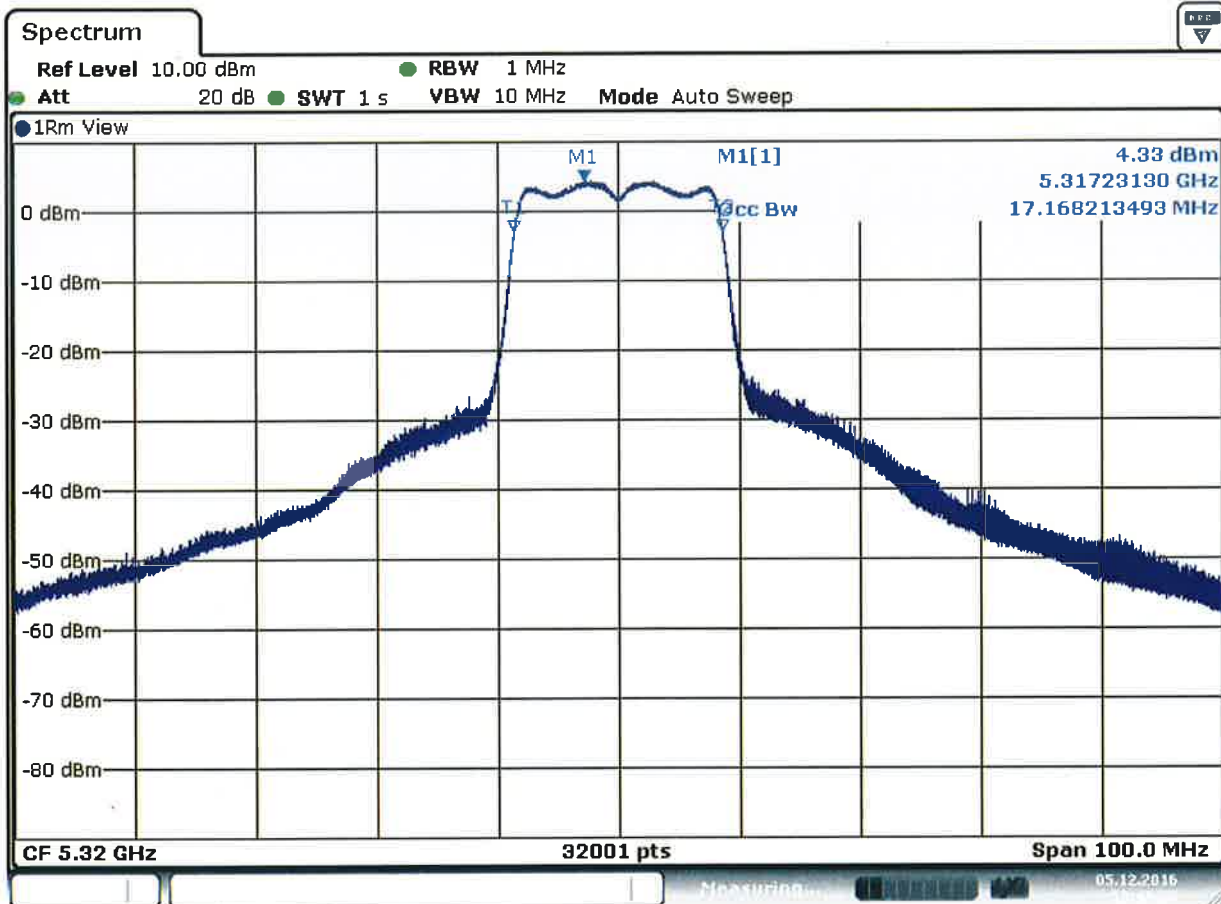
Test Equipment used: EMV-205

99% Bandwidth

§ 6.2.2 (1)

Conducted Measurement

Rated output power: 38,9 mW Channel 64 (5320 MHz center frequency) – Antenna 1



Date: 5.DEC.2016 13:45:25

99% Bandwidth: 17,168 MHz

LIMIT SUBCLAUSE 15.407 – 6.2.1 (2)

Frequency ranges: 5150 – 5250; 5250 – 5350; 5470 – 5650; 5725 – 5850 MHz	99% Bandwidth fully inside permitted frequency ranges
---	---

Test Equipment used: EMV-205