



## Test Report - FCC Part 90

Applicant: Radio Activity srl

Signature:

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer  
EMC-003838-NE



Name & Title:

Tim Royer, Lab Manager

Date of Signature

2026-06-06

Signature:

A handwritten signature in black ink, appearing to read "Osvaldo F.".

Name & Title:

Osvaldo Fernandez, Test Technician

Date of Signature

2026-06-06

Prepared By:

Mark Learner, Technical Writer

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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## 1. Applicant Information

**Applicant:** RADIO ACTIVITY S.R.L  
**Address:** VIA PRIVATA CASCIA, 11,  
MILANO, 20128 ITA

### 1.1 Part 90 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 90 (PRIVATE LAND MOBILE RADIO SERVICES) known as Licensed Land Mobile; ANSI C63.26-2015. Full test results are available in this report.

| Applicable Clauses from Part 2 |                                         |                           |
|--------------------------------|-----------------------------------------|---------------------------|
| FCC Clauses                    | Description of the requirements         | Result: (Pass, Fail, N/A) |
| 2.202                          | Bandwidth & Emission                    | Pass                      |
| 2.1033 (c)(8)                  | Power at the Final Amplifier            | Reported                  |
| 2.1046 (a)                     | RF Output Power                         | Pass                      |
| 2.1047                         | Modulation characteristics              | n/a                       |
| 2.1049                         | Occupied Bandwidth                      | Pass                      |
| 2.1051                         | Spurious emissions at antenna terminals | Pass                      |
| 2.1053                         | Field strength of spurious radiation    | Pass                      |
| 2.1055                         | Frequency stability                     | Pass                      |

| Applicable Clauses from Part 90 |                                 |                           |
|---------------------------------|---------------------------------|---------------------------|
| FCC Clauses                     | Description of the requirements | Result: (Pass, Fail, N/A) |
| 90.205 (r)                      | Transmitter Power               | Pass                      |
| 90.207 (n)                      | Emission designator             | Reported                  |
| 90.209 (b) (5) footnote 2       | Bandwidth limitations           | Pass                      |
| 90.210 (n)                      | Emission masks, In-band         | Pass                      |
| 90.210 (n)                      | Emission masks, Out-of-band     | Pass                      |
| 90.213 (a) footnote 10          | Frequency stability             | Pass                      |
| 90.214                          | Transient Frequency Behavior    | Pass                      |
| 90.221                          | Adjacent channel power limits   | n/a                       |

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

## 2. Location of Testing

### 2.1 Test Laboratory

IIA Lab Services LLC. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86<sup>th</sup> Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

## 3. Test Sample(s) (EUT/DUT)

The test sample was received: 2026-04-21

Dates of Testing: 2026-04-25 – 2026-05-29

### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

| Identification    |                                  |
|-------------------|----------------------------------|
| FCC ID:           | Y9M-KA040E                       |
| Brief Description | PMR digital transceiver/repeater |
| Model(s) #        | KA-040e                          |
| Firmware version  | -                                |
| Software version  | -                                |
| Serial Number     | -                                |

| Technical Characteristics    |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Frequency Range              | 39-50MHz                                                                                             |
| RF O/P Power (Max.)          | 46.81 dBm / 47.97 W                                                                                  |
| Modulation                   | FM/PM (12.5-20-25kHz), 4FSK, C4FM                                                                    |
| Bandwidth & Emission Class   | 11K0F3E, 11K0G3E,<br>14K0F3E, 14K0G3E,<br>16K0F3E, 16K0G3E,<br>8K10F1E, 8K10F1D,<br>7K60FXE, 7K60FXD |
| Number of Channels           | 1 working channel (2 logical channels for DMR); up to 200 programmable channels                      |
| Duty Cycle                   | Up to 100%                                                                                           |
| Antenna Connector            | SMA                                                                                                  |
| Voltage Rating (AC or Batt.) | 13.2Vdc, negative to GND, 10A max                                                                    |

| Antenna Characteristics |                 |           |                                       |
|-------------------------|-----------------|-----------|---------------------------------------|
| Antenna                 | Frequency Range | Mode / BW | Antenna Gain                          |
| 1                       | 39-50MHz        | N/A       | Max allowed per manufacturer 5.85 dBi |

- Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

### 3.2 Configuration of EUT

| Test Modes |                |                        |                    |                     |
|------------|----------------|------------------------|--------------------|---------------------|
| Mode (#)   | Mode (Type)    | Test Frequencies (MHz) | BW (nominal) (kHz) | Emission Designator |
| 1          | Analog         | 39                     | 12.5               | 11K0F3E             |
| 2          | Analog         |                        | 20                 | 14K0F3E             |
| 3          | Analog         |                        | 25                 | 16K0F3E             |
| 4          | Digital (4FSK) | 50                     | 12.5               | 8k10F1E             |
| 5          | Digital (4FSK) |                        | 12.5               | 8K10F1D             |

#### Operating conditions during Testing:

The device was operated without the provided antenna(s).

No other modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT) were made.

#### Peripherals used during Testing:

A laptop provided by the manufacturer was used to program the EUT.

### 3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

#### 4. Test methods & Applicable Regulatory Limits

##### 4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed Part 90 Licensed device:

- 1) ANSI C63.26-2015

##### 4.2 Applied Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 90 (2007)

#### 5. Measurement Uncertainty

| Parameter                                                                                                                                                                   | Uncertainty (dB) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Conducted Emissions                                                                                                                                                         | $\pm 3.14$ dB    |
| Radiated Emissions (9kHz – 30 MHz)                                                                                                                                          | $\pm 3.08$ dB    |
| Radiated Emissions (30 – 200 MHz)                                                                                                                                           | $\pm 2.16$ dB    |
| Radiated Emissions (200 – 1000 MHz)                                                                                                                                         | $\pm 2.15$ dB    |
| Radiated Emissions (1 GHz – 18 GHz)                                                                                                                                         | $\pm 2.14$ dB    |
| Radiated Emissions (18 GHz – 40 GHz)                                                                                                                                        | $\pm 2.31$ dB    |
| <b>Note:</b> The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2. |                  |

#### 6. Environmental Conditions

##### 6.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

| Parameter                                                                                                                       | Measurement |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|
| Temperature                                                                                                                     | 23 C +/- 5% |
| Humidity                                                                                                                        | 55% +/- 5%  |
| Barometric Pressure                                                                                                             | 30.05 in Hg |
| <b>Note:</b> Specific environmental conditions that are applicable to a specific test are available in the test result section. |             |

## 7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

### 7.1 List of Test Equipment

| Test Equipment      |                               |                     |                   |                        |             |            |
|---------------------|-------------------------------|---------------------|-------------------|------------------------|-------------|------------|
| Type                | Device                        | Manufacturer        | Model             | SN#                    | Current Cal | Cal Due    |
| EMI Receiver        | ESW EMI Receiver              | Rohde & Schwarz     | ESW44             | 1328.4100K45-103049-Ud | 1/20/25     | 1/20/2028  |
| Pre-amp             | Pre-amp                       | RF-LAMBDA           | RLNA00M45GA       | NA                     | 9/3/25      | 9/3/2027   |
| Antenna             | Biconical 1096                | Eaton               | 94455-1           | 1096                   | 7/15/25     | 7/15/2027  |
| Antenna, NSA        | Log-Periodic 1243             | Eaton               | 96005             | 1243                   | 10/23/25    | 10/23/2027 |
| Antenna             | Double-Ridged Horn/ETS Horn 1 | ETS-Lindgren        | 3117              | 00035923               | 5/31/23     | 5/30/2026  |
| 3m SAC              | CHAMBER                       | Panashield          | 3M                | N/A                    | 12/31/25    | 12/31/2027 |
| Frequency Counter   | Frequency Counter             | Hewlett Packard     | 5385A             | 2730A03025             | 3/31/2026   | 3/30/2028  |
| Temperature Chamber | Temperature Chamber           | Cincinnati Sub Zero | ZPHS-32-6-6-5C/AC | ZP2431505              | 11/26/24    | 11/26/2026 |
| Oscilloscope        | Oscilloscope                  | Rohde & Schwarz     | RTM3002           | 113602                 | 11/3/25     | 11/3/2027  |

| Software       |                   |                         |               |
|----------------|-------------------|-------------------------|---------------|
| Software       | Author            | Version                 | Validation on |
| ESW44 Firmware | Rohde & Schwarz   | Windows 10 Version 2.10 | 2025          |
| Field Strength | IIA               | v4.10.7.0               | 2016          |
| Field Meter    | Wave Control SMP2 | 2.5.5                   | 2024          |
| EMC32          | Rohde & Schwarz   | 11.60.00                | 2025          |

## 8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB $\mu$ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB $\mu$ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB $\mu$ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

### Example:

|            |               |              |          |                          |
|------------|---------------|--------------|----------|--------------------------|
| Freq (MHz) | Meter Reading | + ACF        | +CL      | = FS                     |
| 33         | 20 dB $\mu$ V | + 10.36 dB/m | +0.40 dB | =30.36 dB $\mu$ V/m @ 3m |

EIRP = Pcond (dBm) + dBi

## 8.1 Power at the Final Amplifier

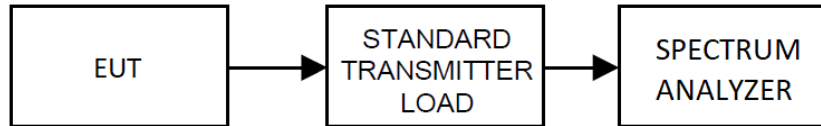
Limits from FCC Part 2.1033 (c)(8). No method of measurement is specified.

| Test Results              |                 |                                  |
|---------------------------|-----------------|----------------------------------|
| EUT Operating Voltage (V) | EUT Current (A) | Power at the Final Amplifier (W) |
| 13.2                      | 10              | 132                              |

## 8.2 RF Output Power

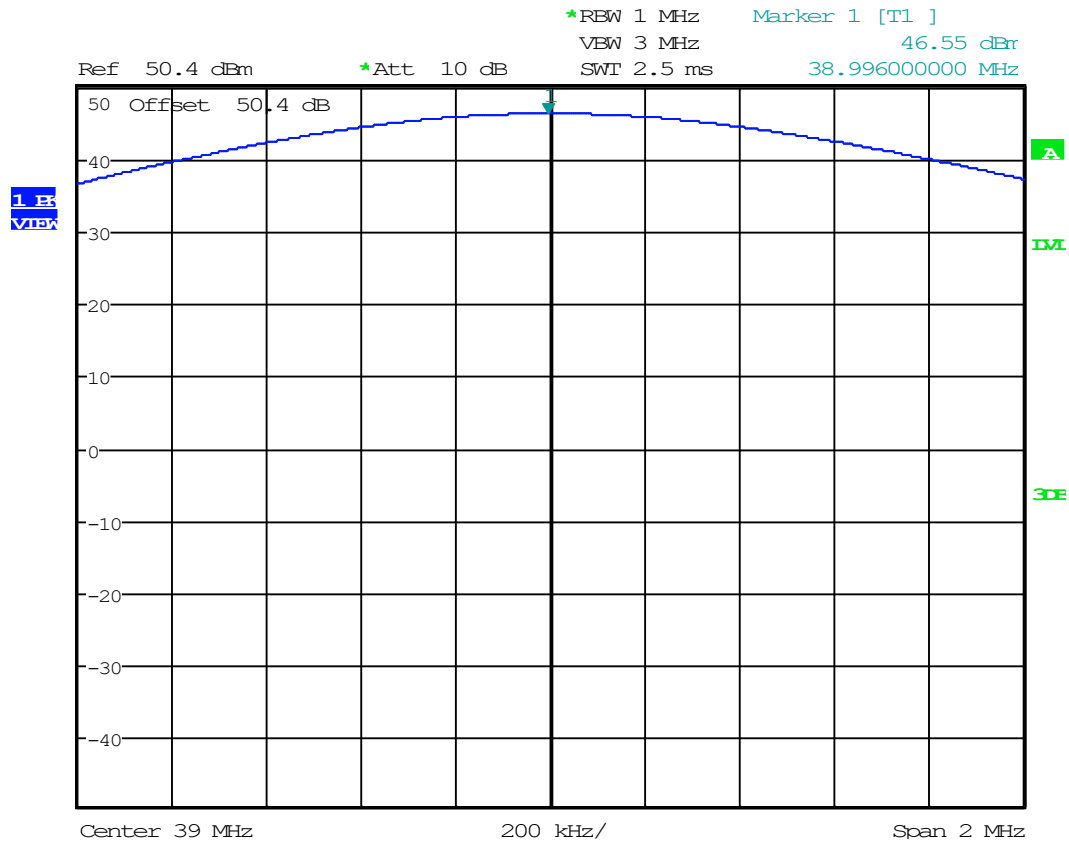
Limits from FCC Parts 2.1046(a), and 90.205 (r); and test procedure from ANSI C63.26-2015.

### Test Setup



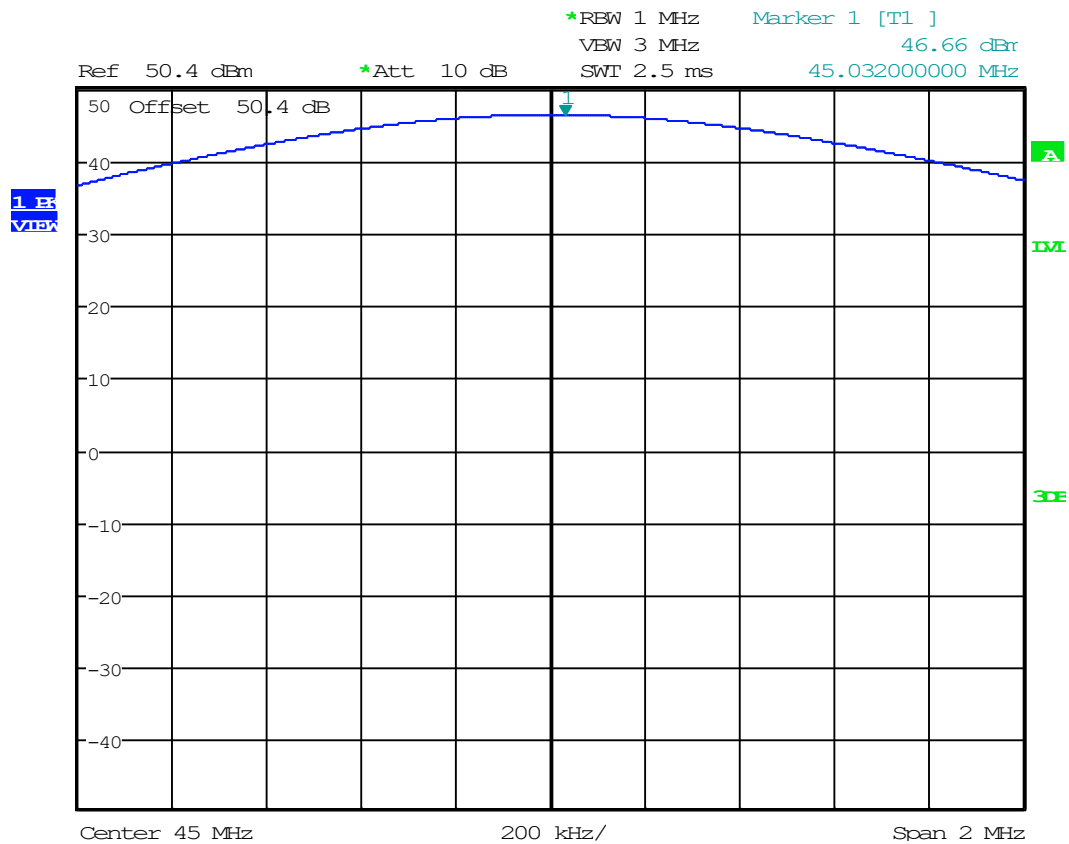
| Test Results, Mode 1  |                    |                  |
|-----------------------|--------------------|------------------|
| Tuned Frequency (MHz) | Power Output (dBm) | Power Output (W) |
| 39                    | 46.55              | 45.19            |
| 45                    | 46.66              | 46.34            |
| 50                    | 46.81              | 47.97            |

## 8.2.1 RF Power Output Plot, 39 MHz



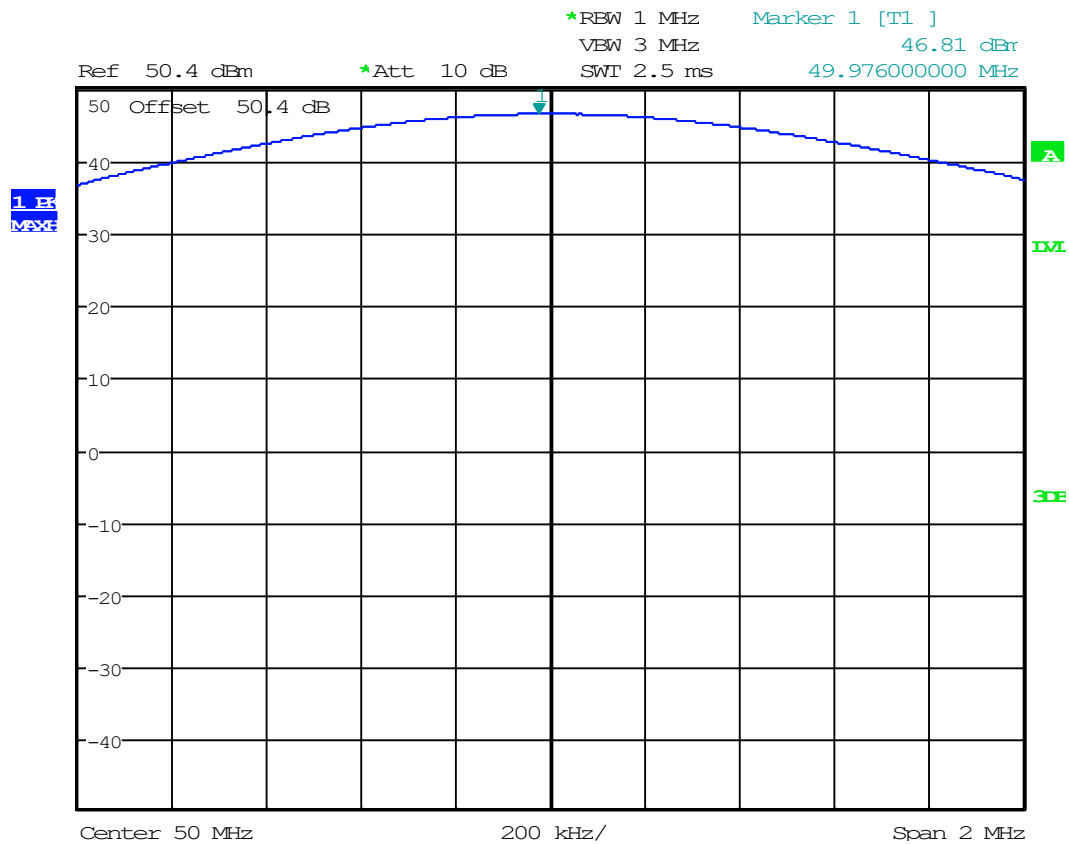
Date: 19.MAY.2026 04:41:28

## 8.2.2 RF Power Output Plot, 45 MHz



Date: 19.MAY.2026 04:42:04

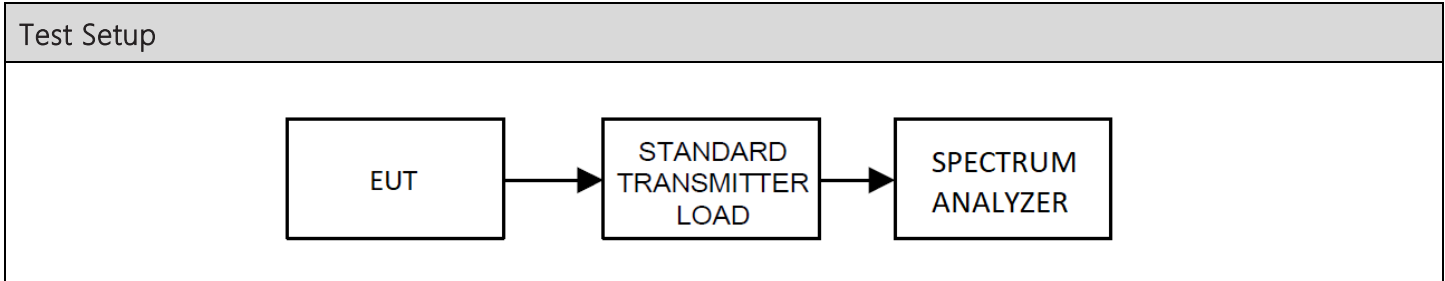
### 8.2.3 RF Power Output Plot, 50 MHz



Date: 19.MAY.2026 04:44:16

### 8.3 Bandwidth & Emission

Limits from FCC Parts 2.1049, and 90.207 & 90.209, and test procedure from ANSI C63.26-2015.

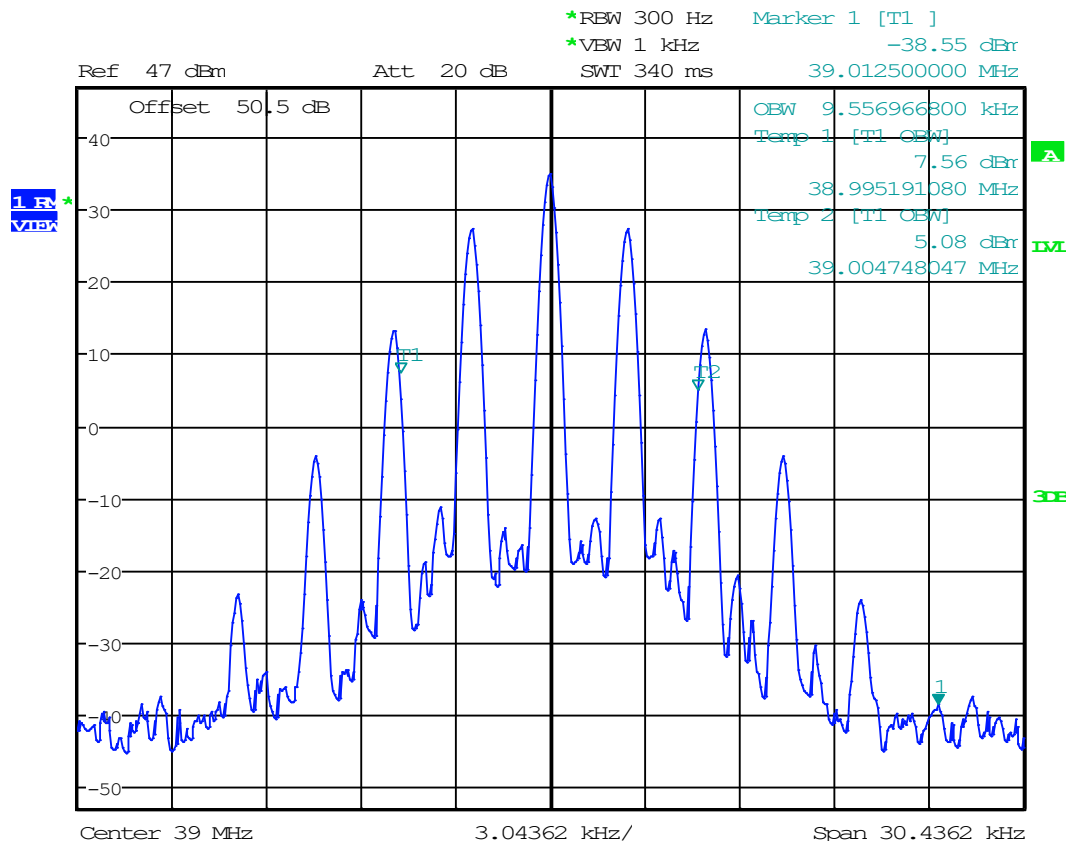


| Test Results, Authorized Bandwidth |                       |                            |
|------------------------------------|-----------------------|----------------------------|
| Rule Part                          | Operating Range (MHz) | Authorized Bandwidth (kHz) |
| Part 90                            | 39-50                 | 20                         |

| Test Results, Occupied Bandwidth |      |                     |                          |                |
|----------------------------------|------|---------------------|--------------------------|----------------|
| Tuned Frequency (MHz)            | Mode | Emission Designator | Occupied Bandwidth (kHz) | Bandwidth Type |
| 39                               | 1    | 11K0F3E             | 9.557                    | 99%            |
|                                  | 2    | 14K0F3E             | 10.352                   | 99%            |
|                                  | 3    | 16K0F3E             | 10.400                   | 99%            |
|                                  | 4    | 8k10F1E             | 7.971                    | 99%            |
|                                  | 5    | 8K10F1D             | 7.928                    | 99%            |
| 45                               | 1    | 11K0F3E             | 9.679                    | 99%            |
|                                  | 2    | 14K0F3E             | 10.352                   | 99%            |
|                                  | 3    | 16K0F3E             | 10.400                   | 99%            |
|                                  | 4    | 8k10F1E             | 7.632                    | 99%            |
|                                  | 5    | 8K10F1D             | 7.589                    | 99%            |
| 50                               | 1    | 11K0F3E             | 9.922                    | 99%            |
|                                  | 2    | 14K0F3E             | 10.352                   | 99%            |
|                                  | 3    | 16K0F3E             | 14.961                   | 99%            |
|                                  | 4    | 8k10F1E             | 8.140                    | 99%            |
|                                  | 5    | 8K10F1D             | 7.844                    | 99%            |

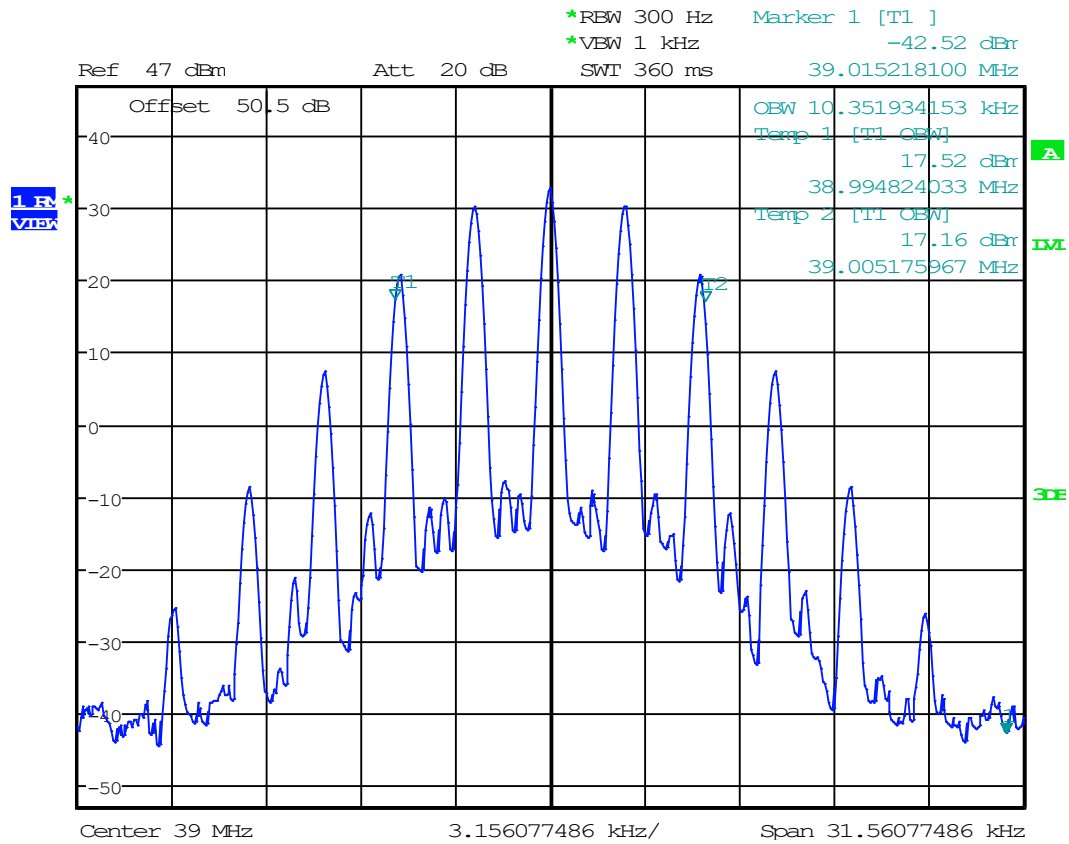
## Occupied Bandwidth, Spectrum Plots

### 8.3.1 99% Bandwidth Plot, 12.5 kHz FM, 39 MHz



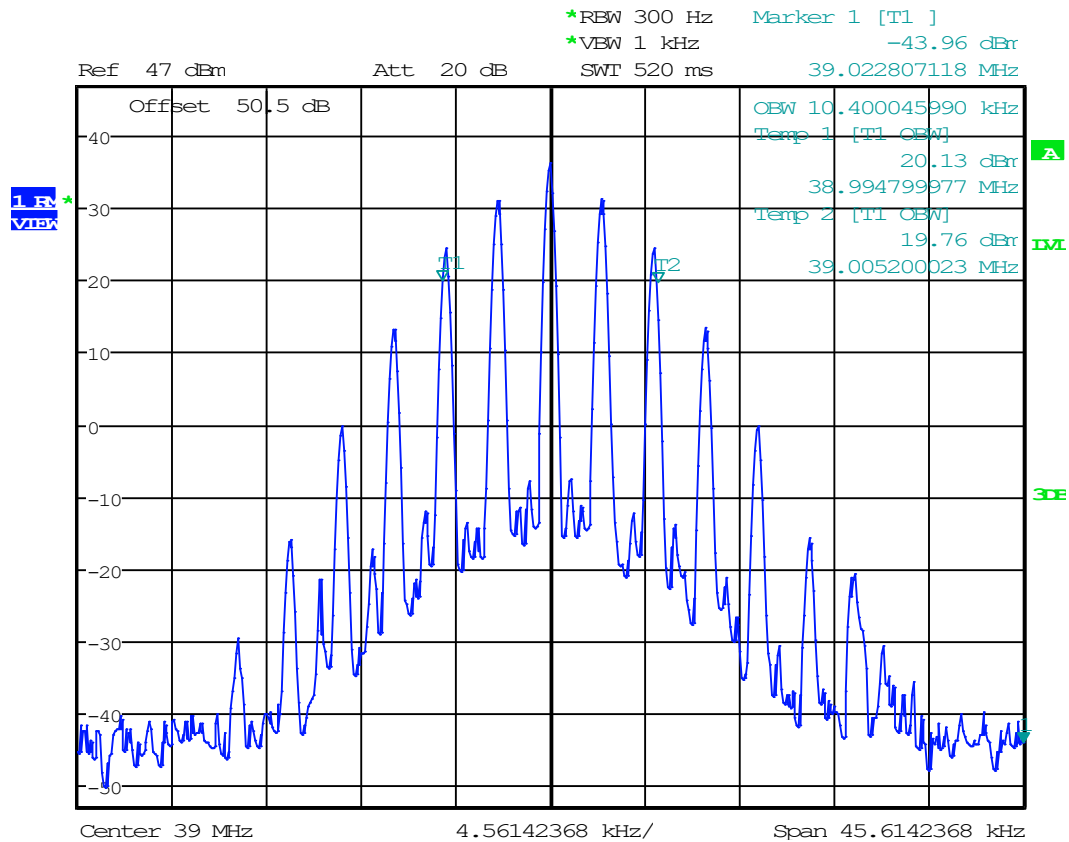
Date: 26.MAY.2026 08:33:41

### 8.3.2 99% Bandwidth Plot, 20 kHz FM, 39 MHz



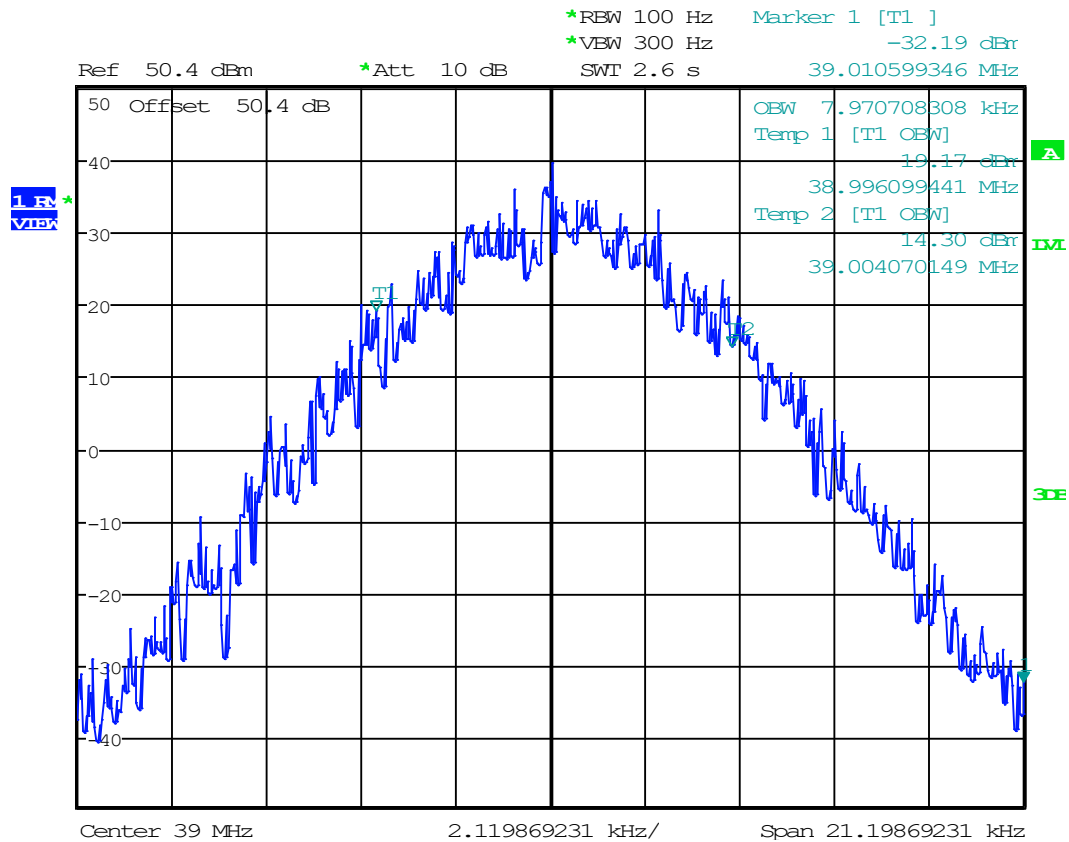
Date: 26.MAY.2026 08:36:23

### 8.3.3 99% Bandwidth Plot, 25 kHz FM, 39 MHz



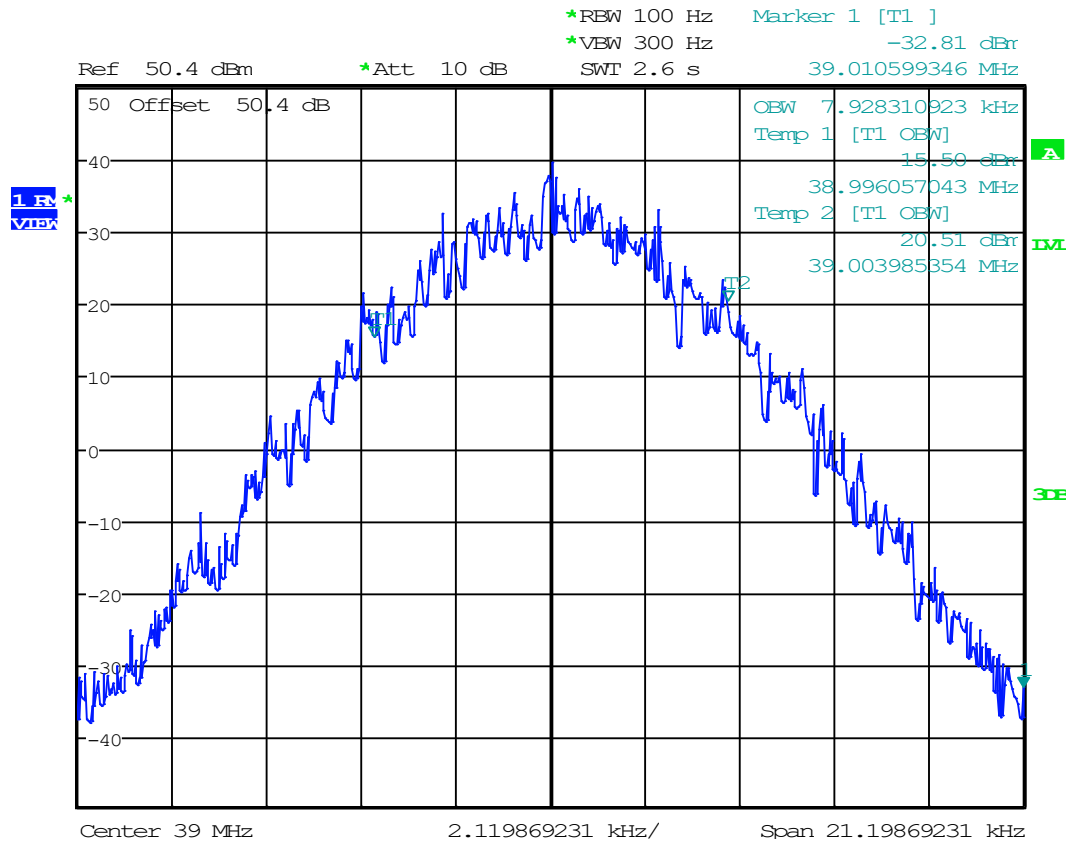
Date: 26.MAY.2026 08:41:53

### 8.3.4 99% Bandwidth Plot, C4FM, F1E, 39 MHz



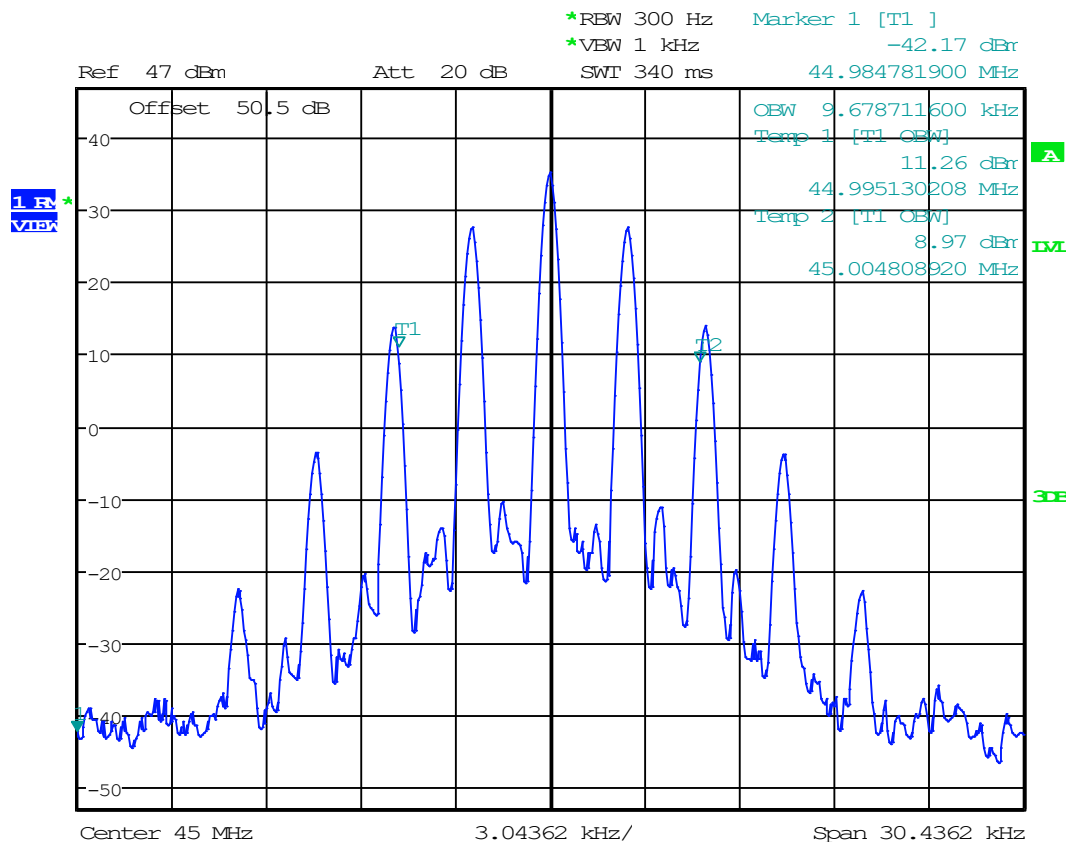
Date: 19.MAY.2026 05:40:16

### 8.3.5 99% Bandwidth Plot, C4FM, F1D, 39 MHz



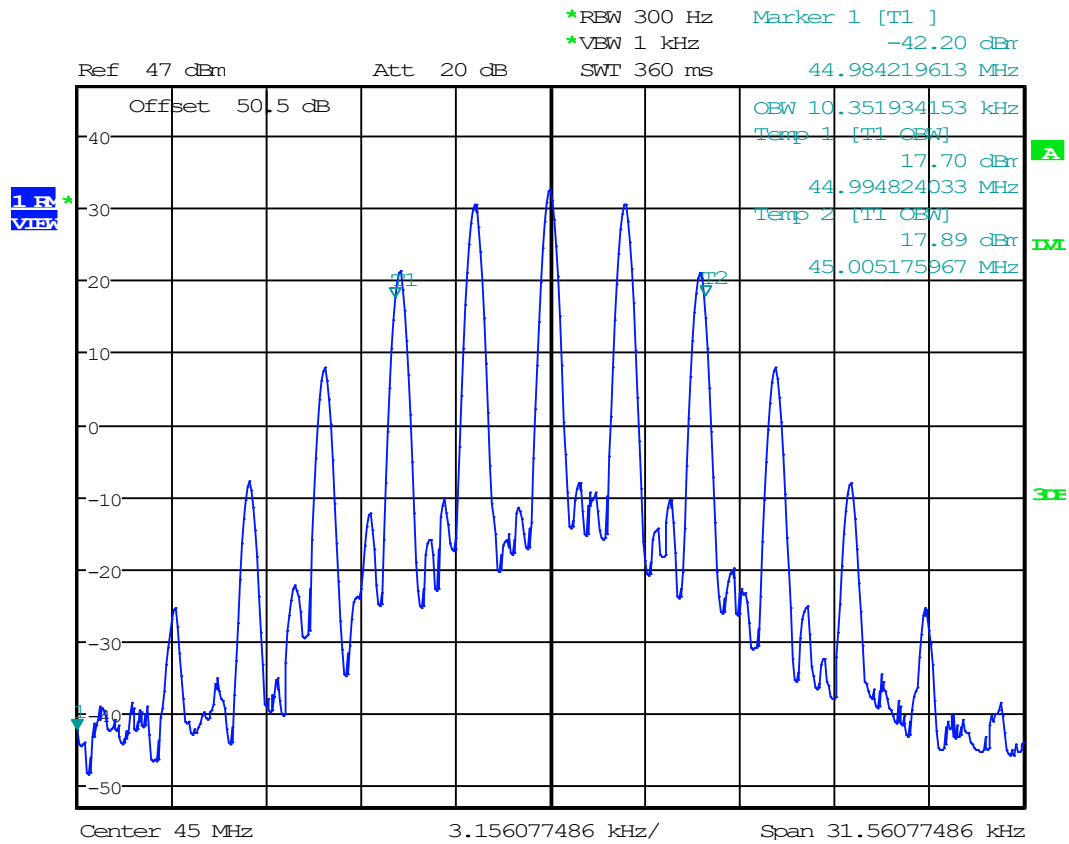
Date: 19.MAY.2026 05:38:54

### 8.3.6 99% Bandwidth Plot, 12.5 kHz FM, 45 MHz



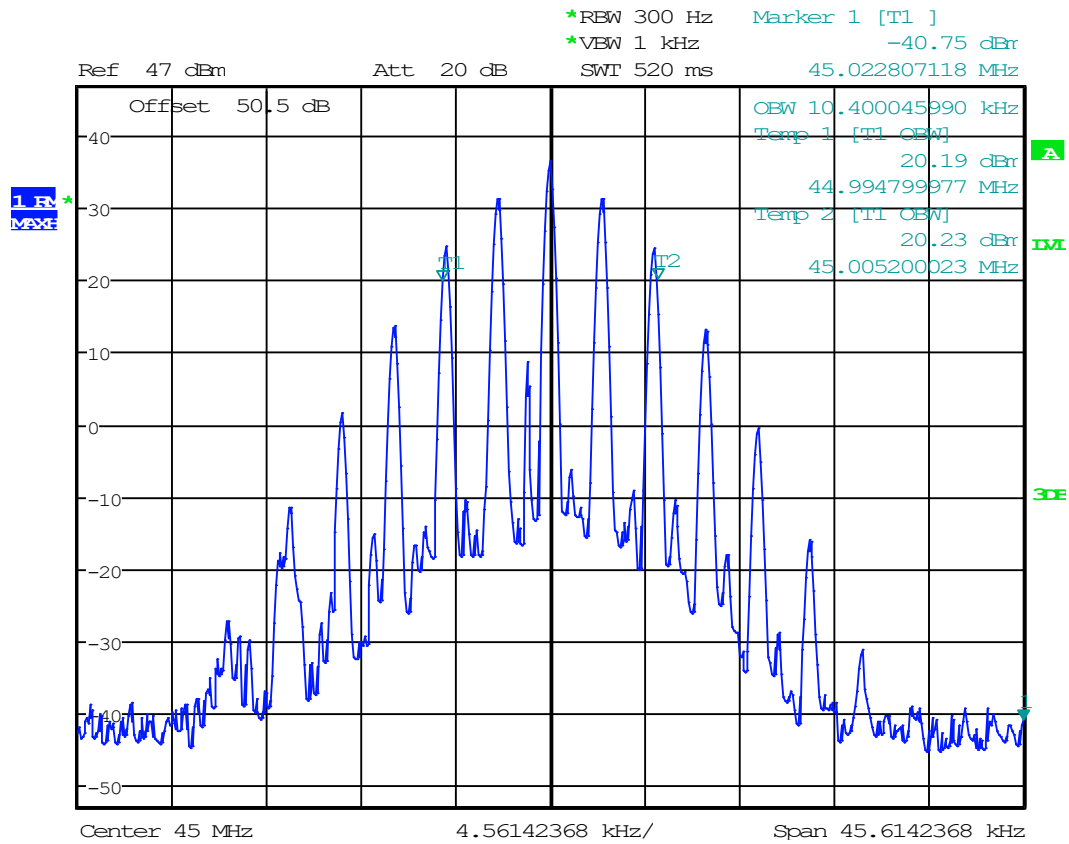
Date: 26.MAY.2026 08:34:17

### 8.3.7 99% Bandwidth Plot, 20 kHz FM, 45 MHz



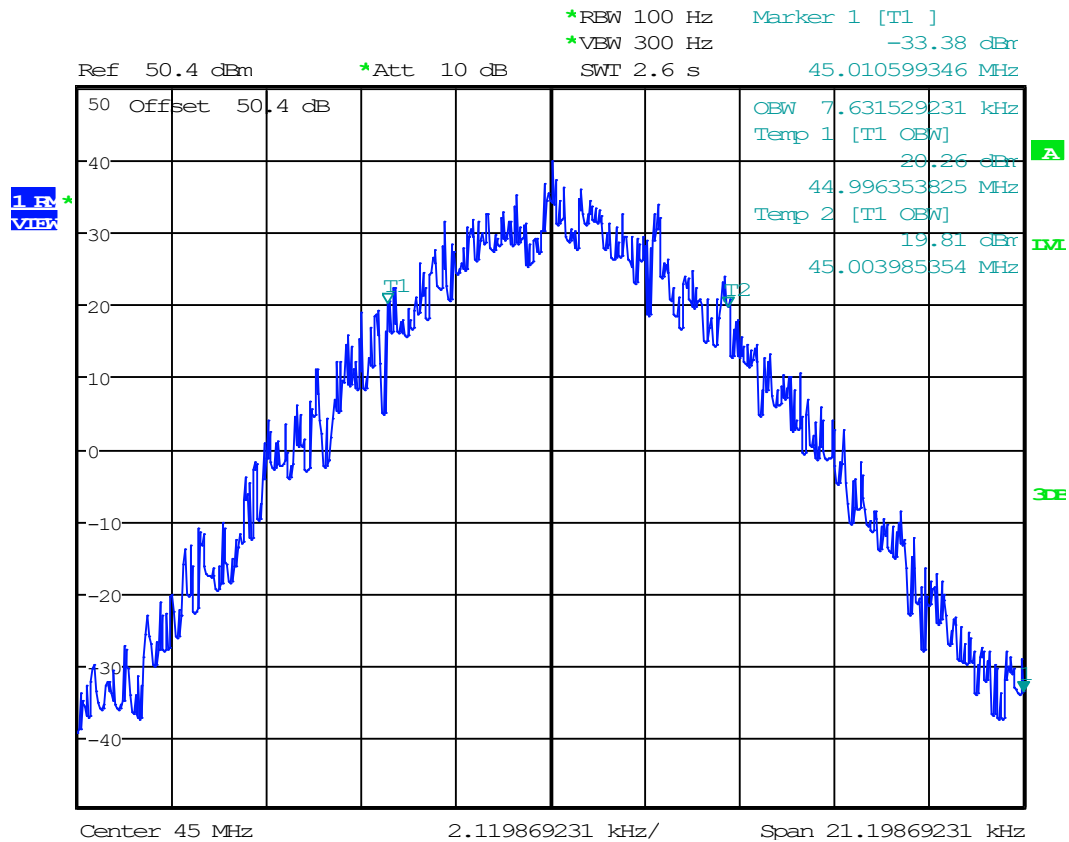
Date: 26.MAY.2026 08:36:47

### 8.3.8 99% Bandwidth Plot, 25 kHz FM, 45 MHz



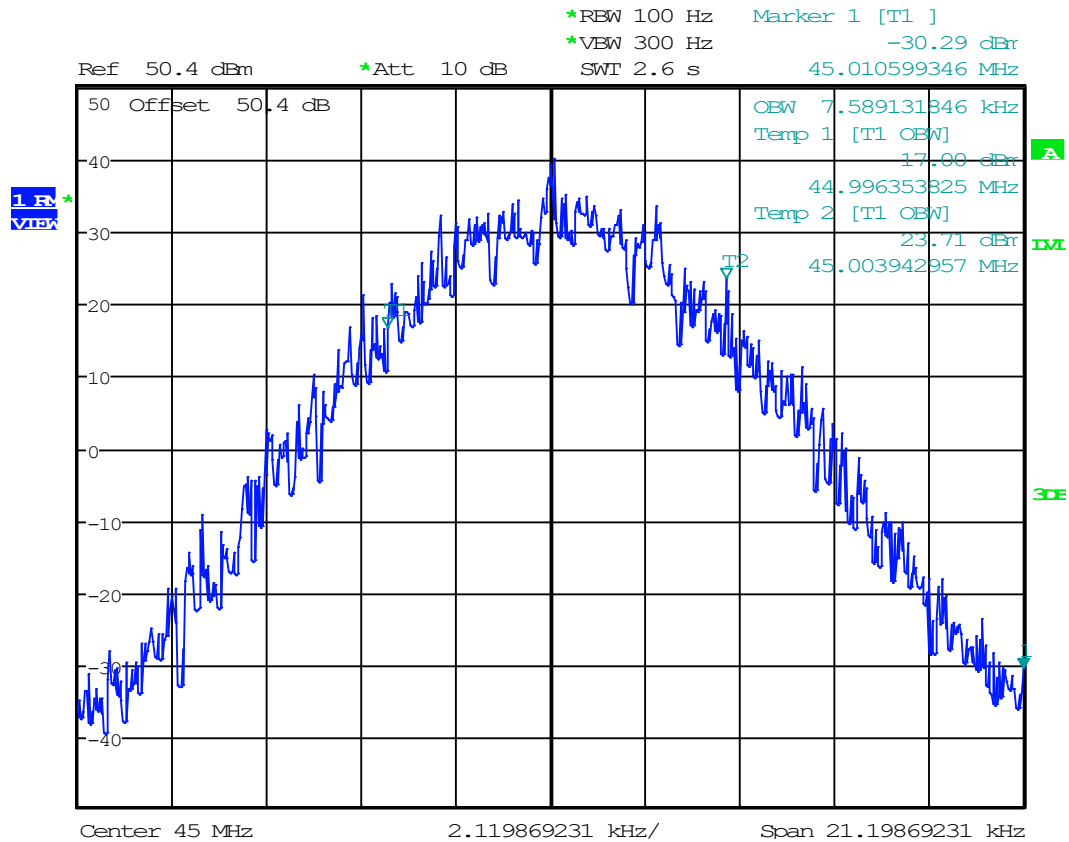
Date: 26.MAY.2026 08:41:22

### 8.3.9 99% Bandwidth Plot, C4FM, F1E, 45 MHz



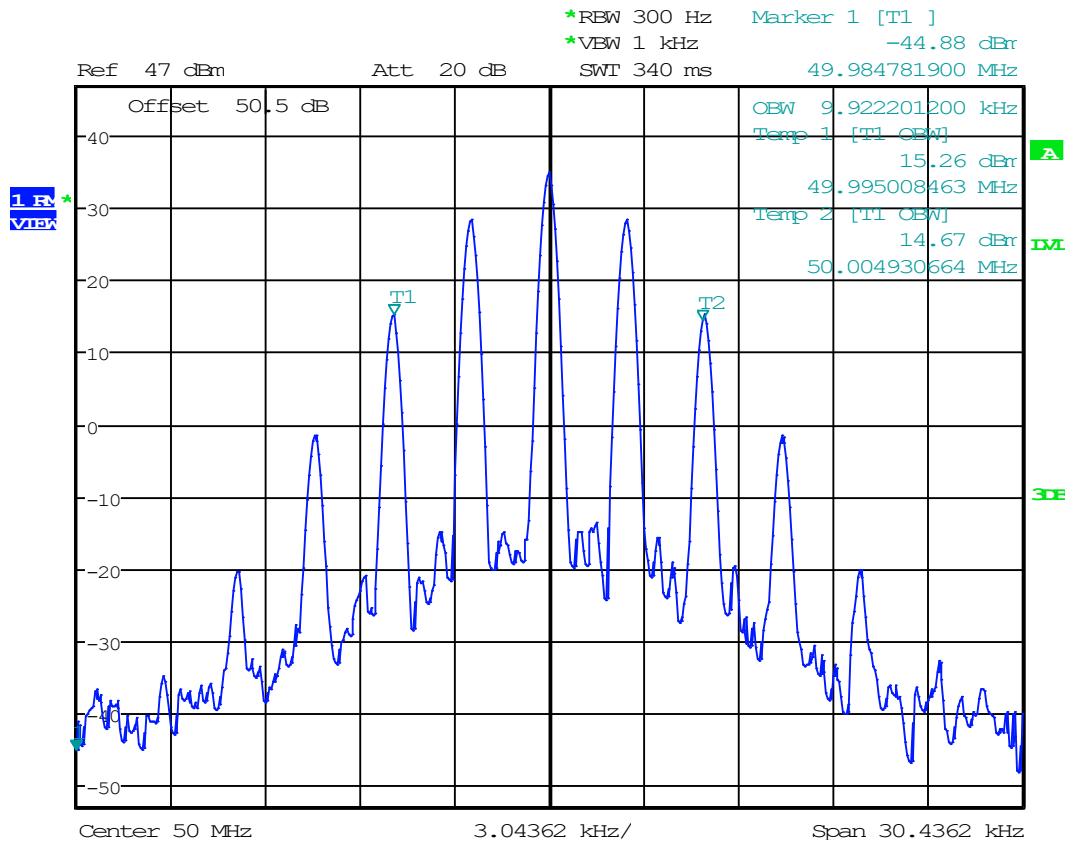
Date: 19.MAY.2026 05:36:46

### 8.3.10 99% Bandwidth Plot, C4FM, F1D, 45 MHz



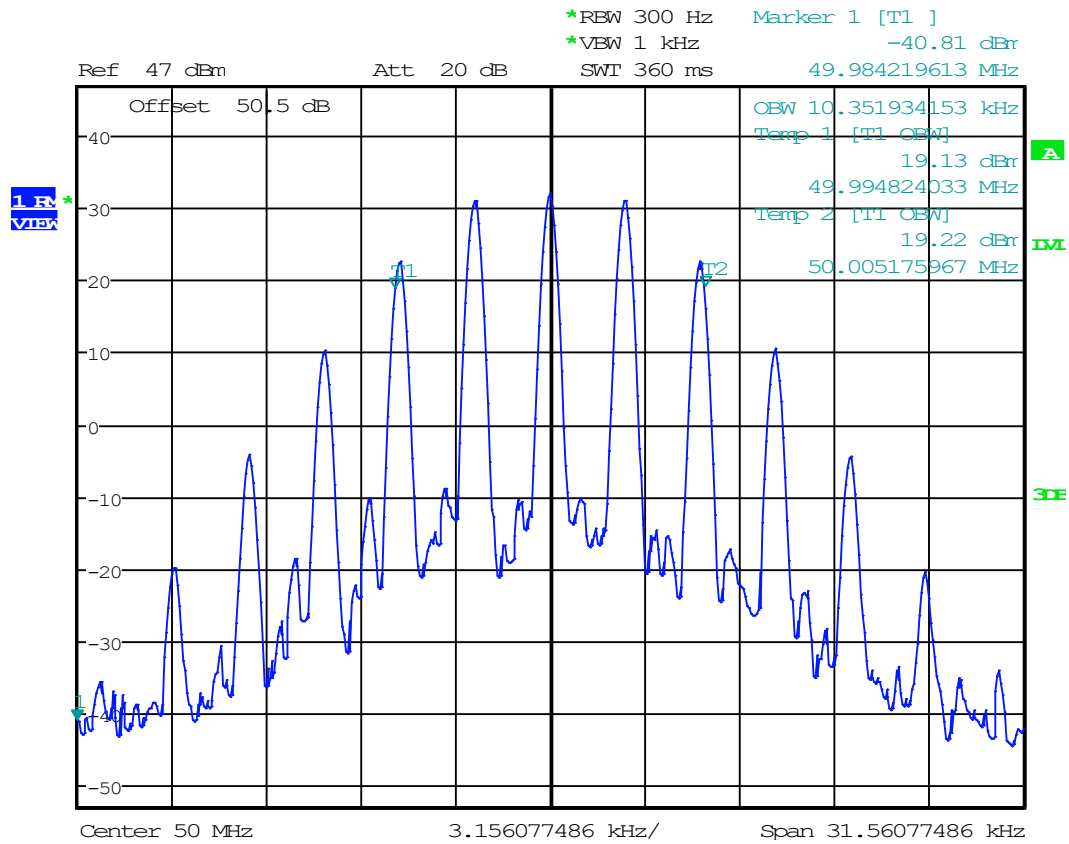
Date: 19.MAY.2026 05:37:30

### 8.3.11 99% Bandwidth Plot, 12.5 kHz FM, 50 MHz



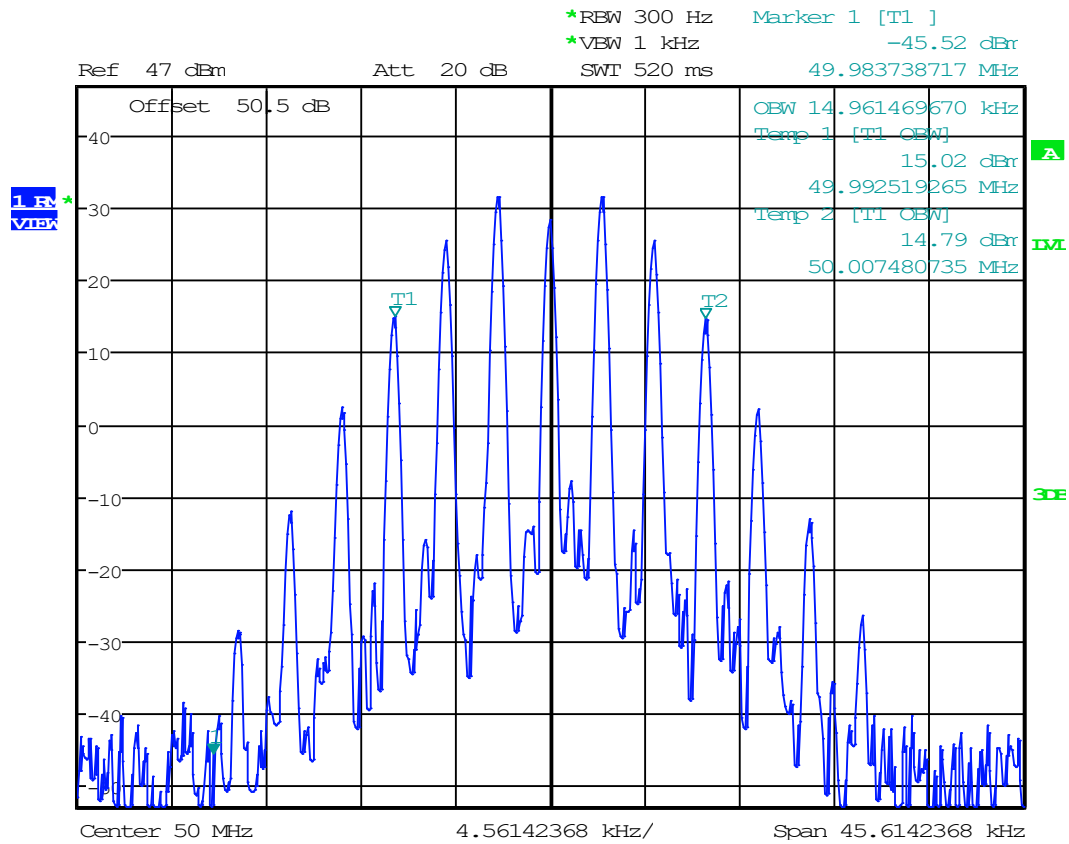
Date: 26.MAY.2026 08:35:01

### 8.3.12 99% Bandwidth Plot, 20 kHz FM, 50 MHz



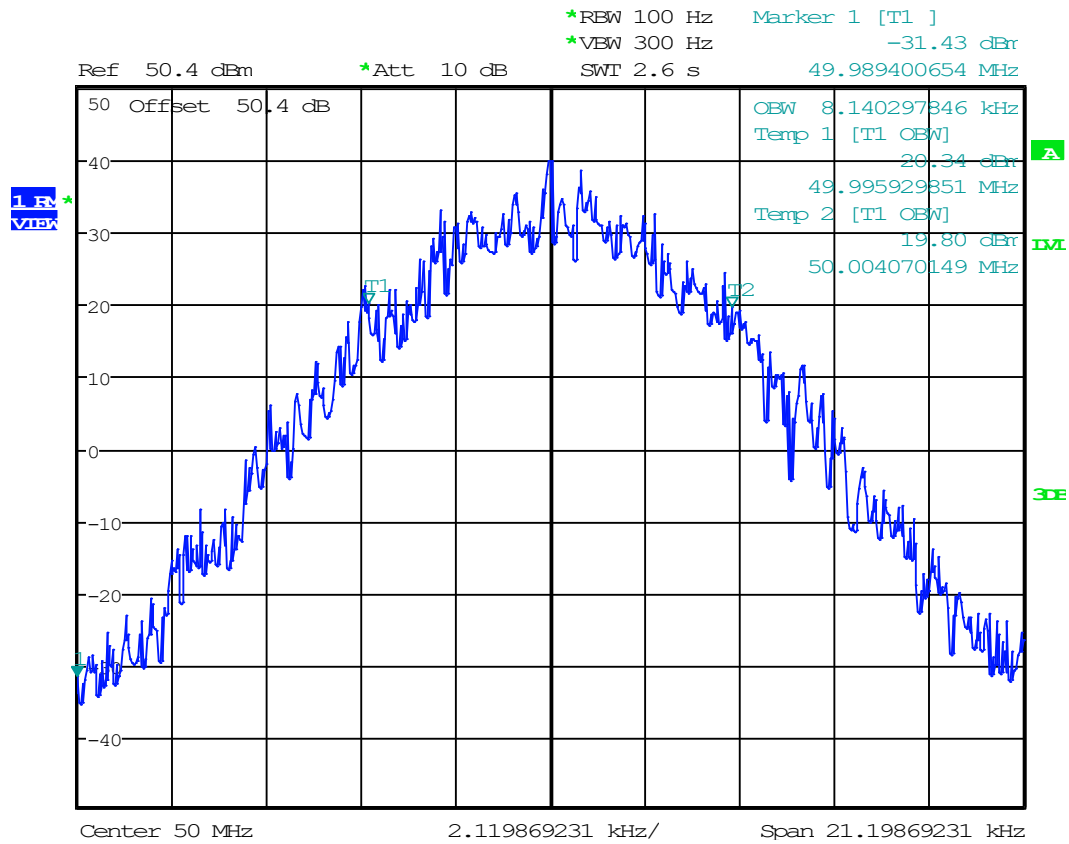
Date: 26.MAY.2026 08:37:17

### 8.3.13 99% Bandwidth Plot, 25 kHz FM, 50 MHz



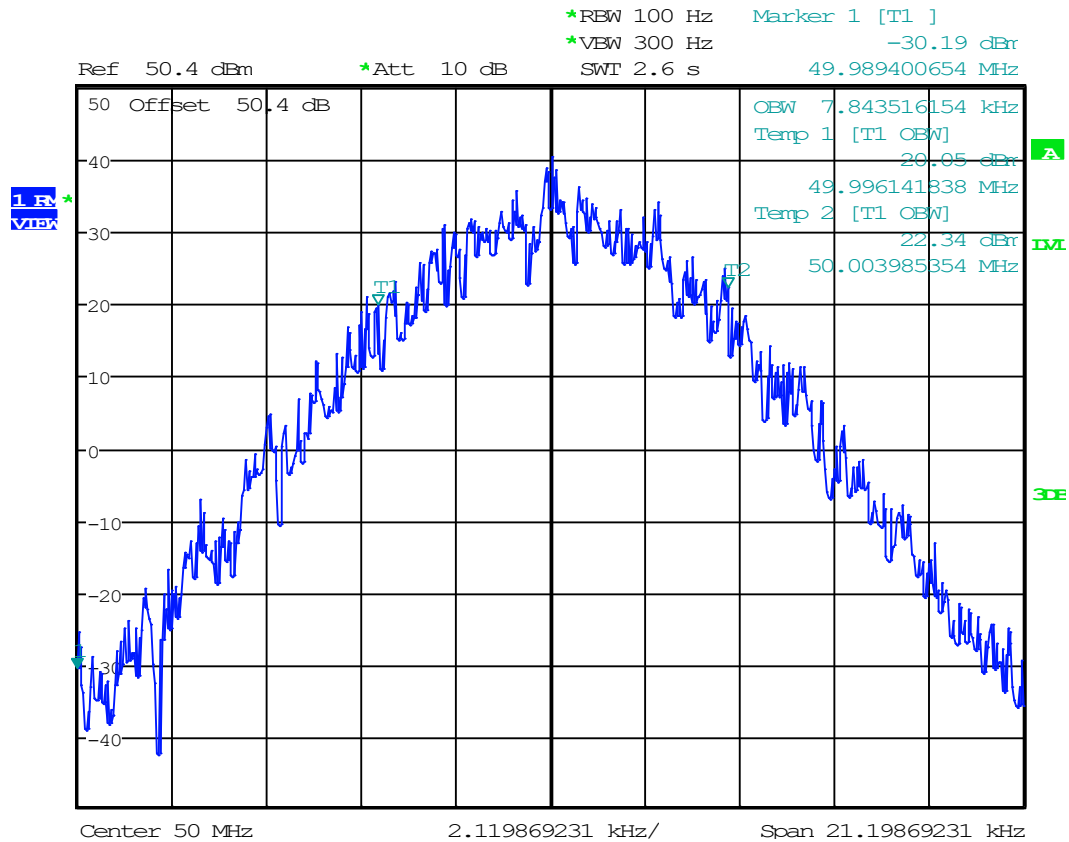
Date: 26.MAY.2026 08:40:37

### 8.3.14 99% Bandwidth Plot, C4FM, F1E, 50 MHz



Date: 19.MAY.2026 05:33:53

### 8.3.15 99% Bandwidth Plot, C4FM, F1D, 50 MHz

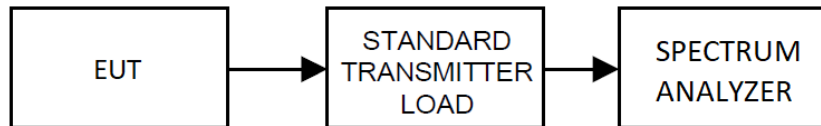


Date: 19.MAY.2026 05:34:40

## 8.4 Emission Limitations, In-Band

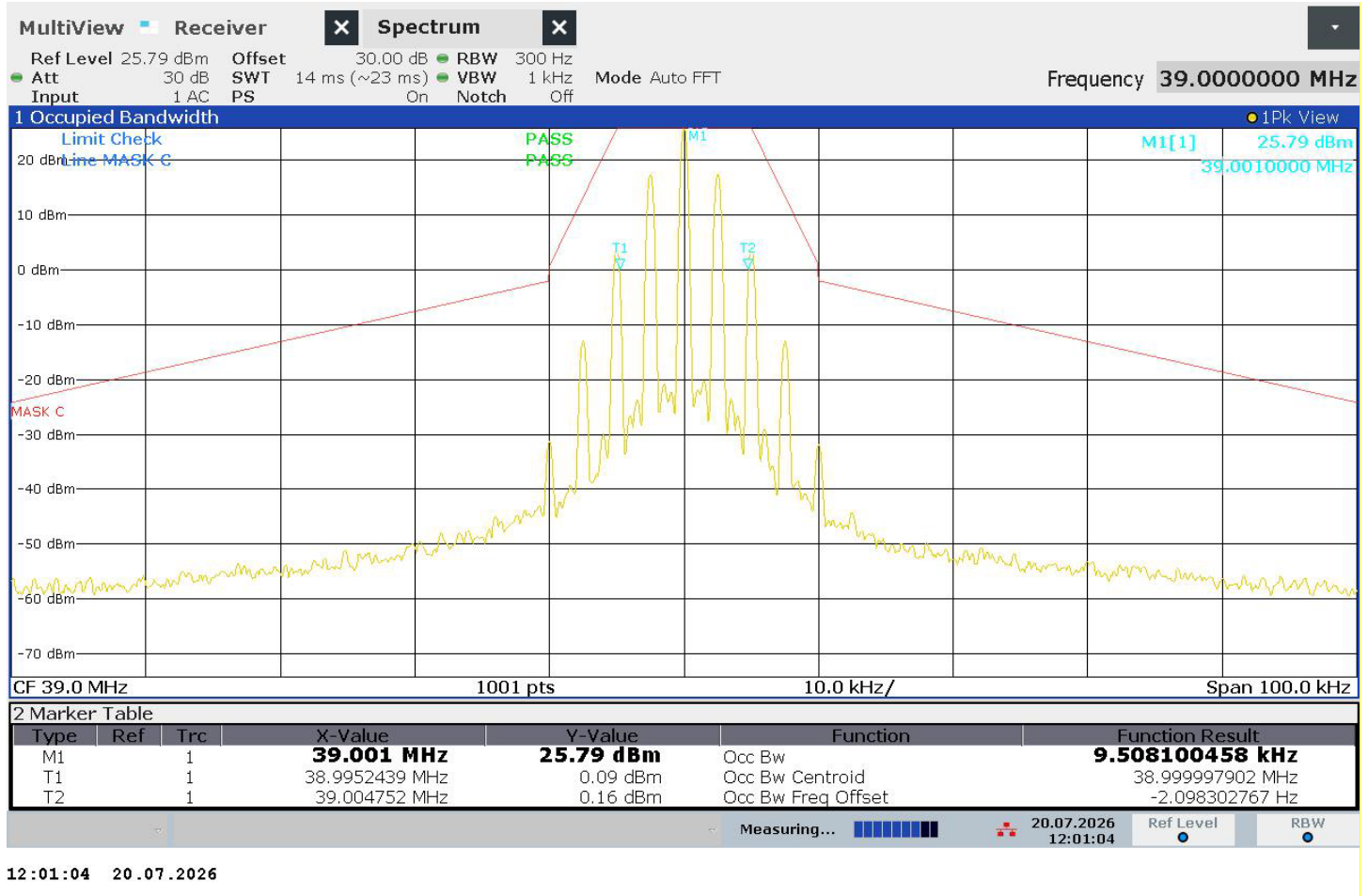
Limits from FCC Part 90.210; and test procedure from ANSI C63.26-2015.

### Conducted Test Setup

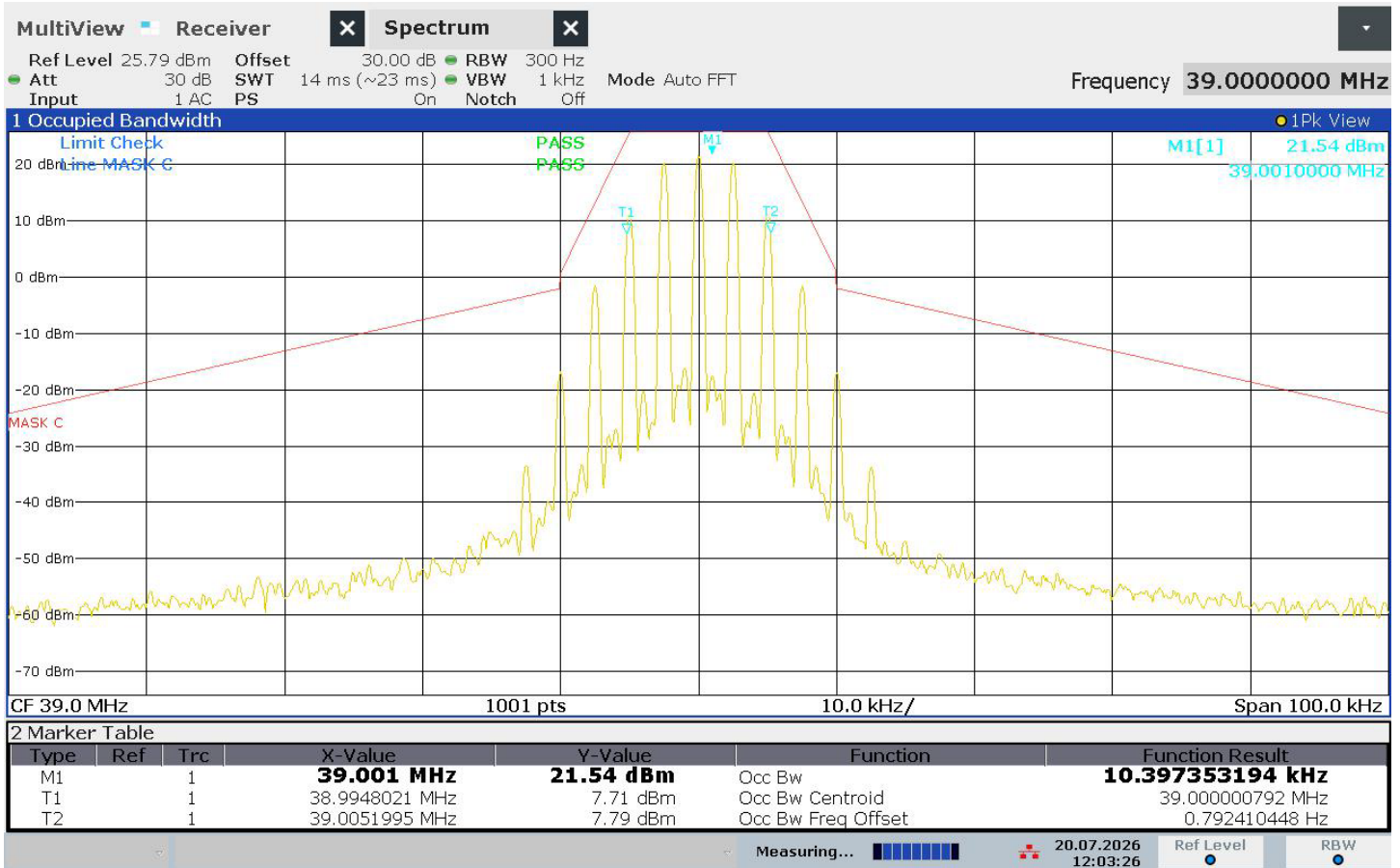


## Conducted Emissions Mask, Spectrum Plots

### 8.4.1 Emission Mask, 12.5 kHz FM, 39 MHz

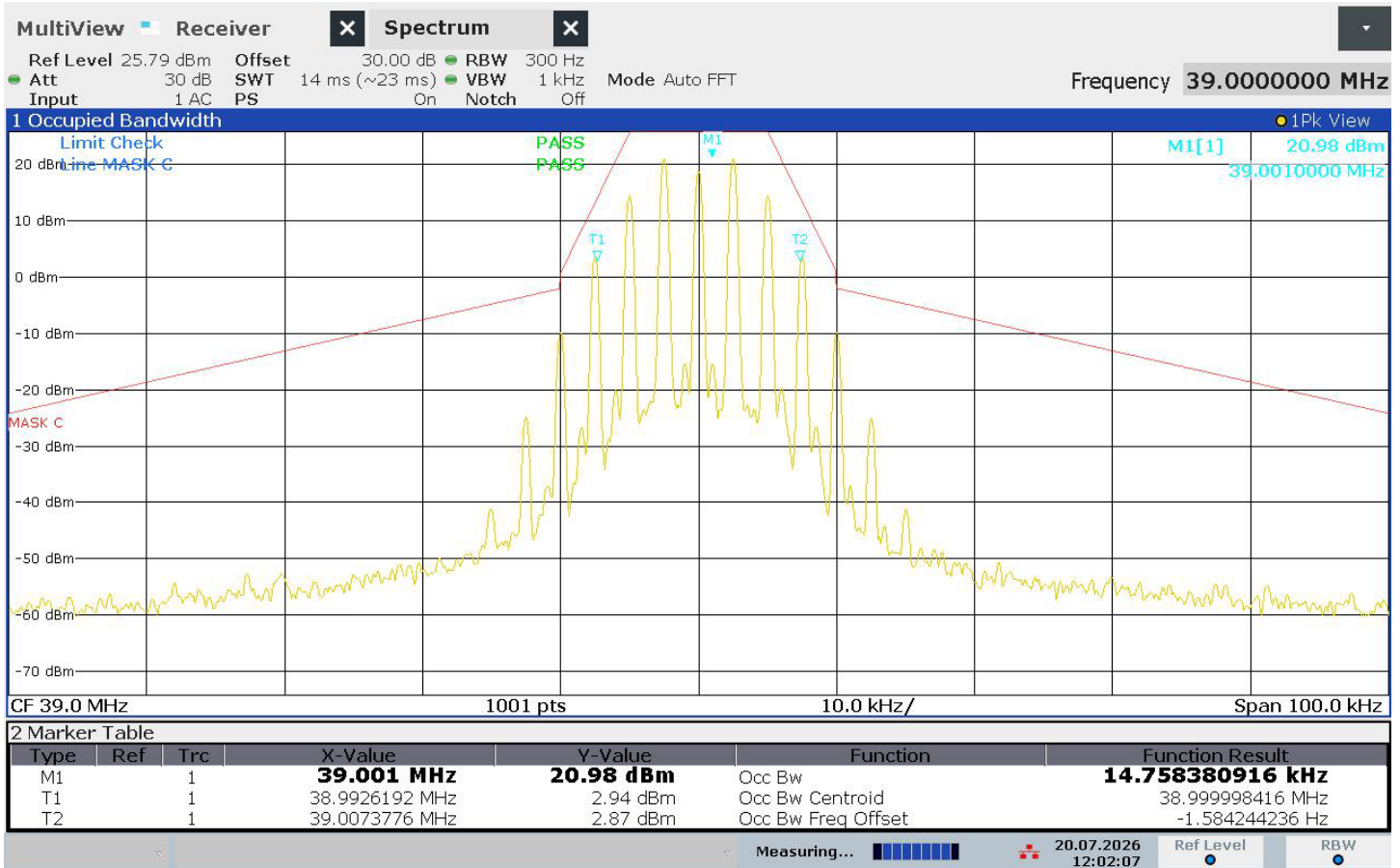


## 8.4.2 Emission Mask, 20 kHz FM, 39 MHz



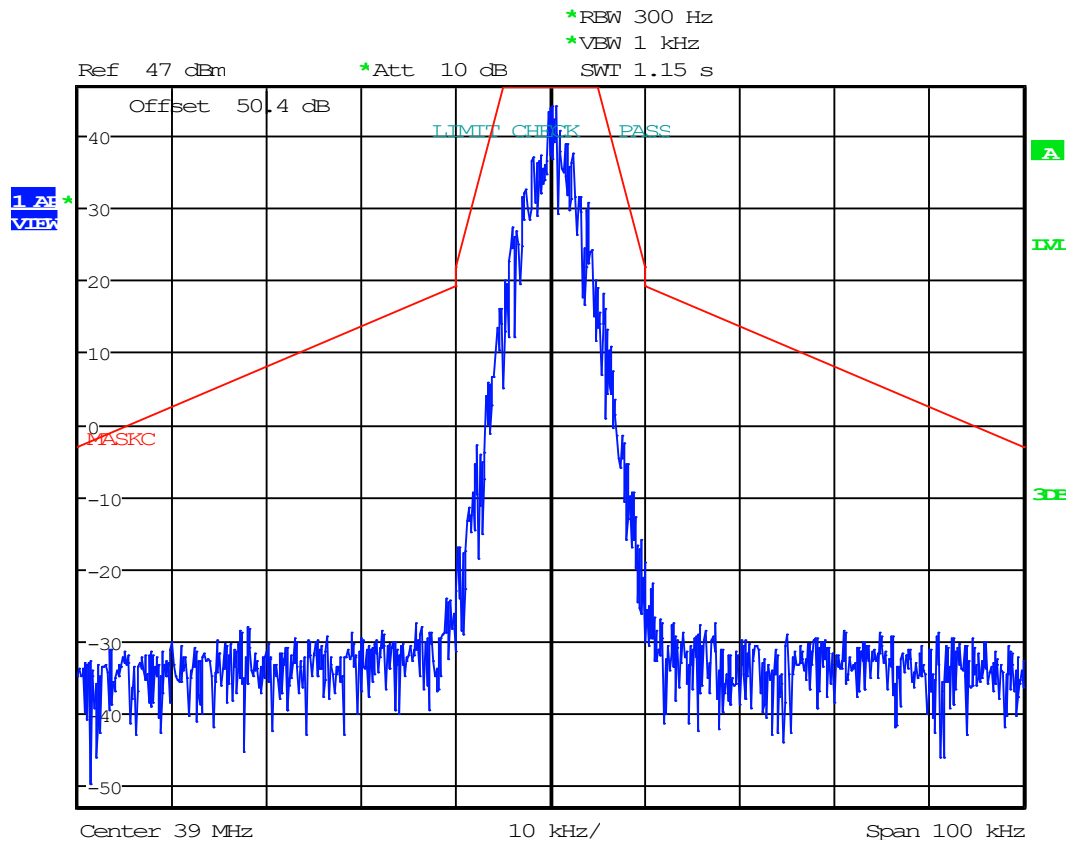
12:03:26 20.07.2026

### 8.4.3 Emission Mask, 25 kHz FM, 39 MHz



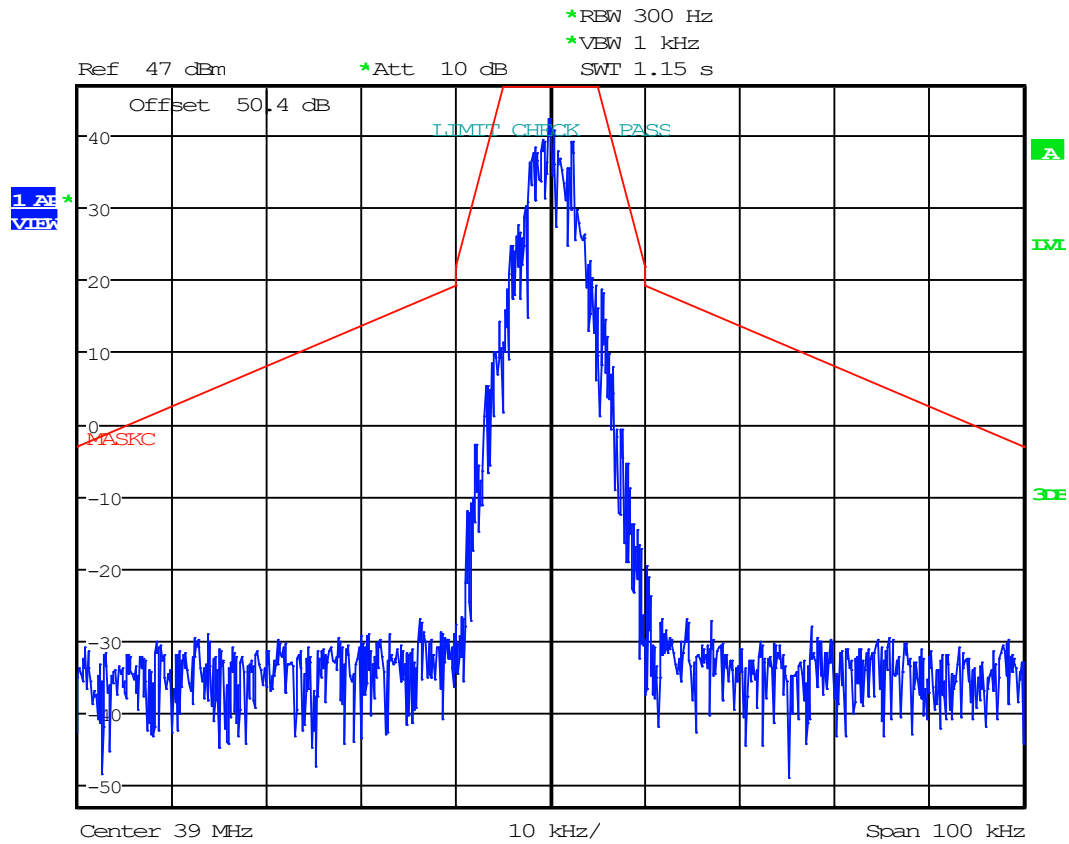
12:02:08 20.07.2026

#### 8.4.4 Emission Mask, C4FM, F1D 39 MHz



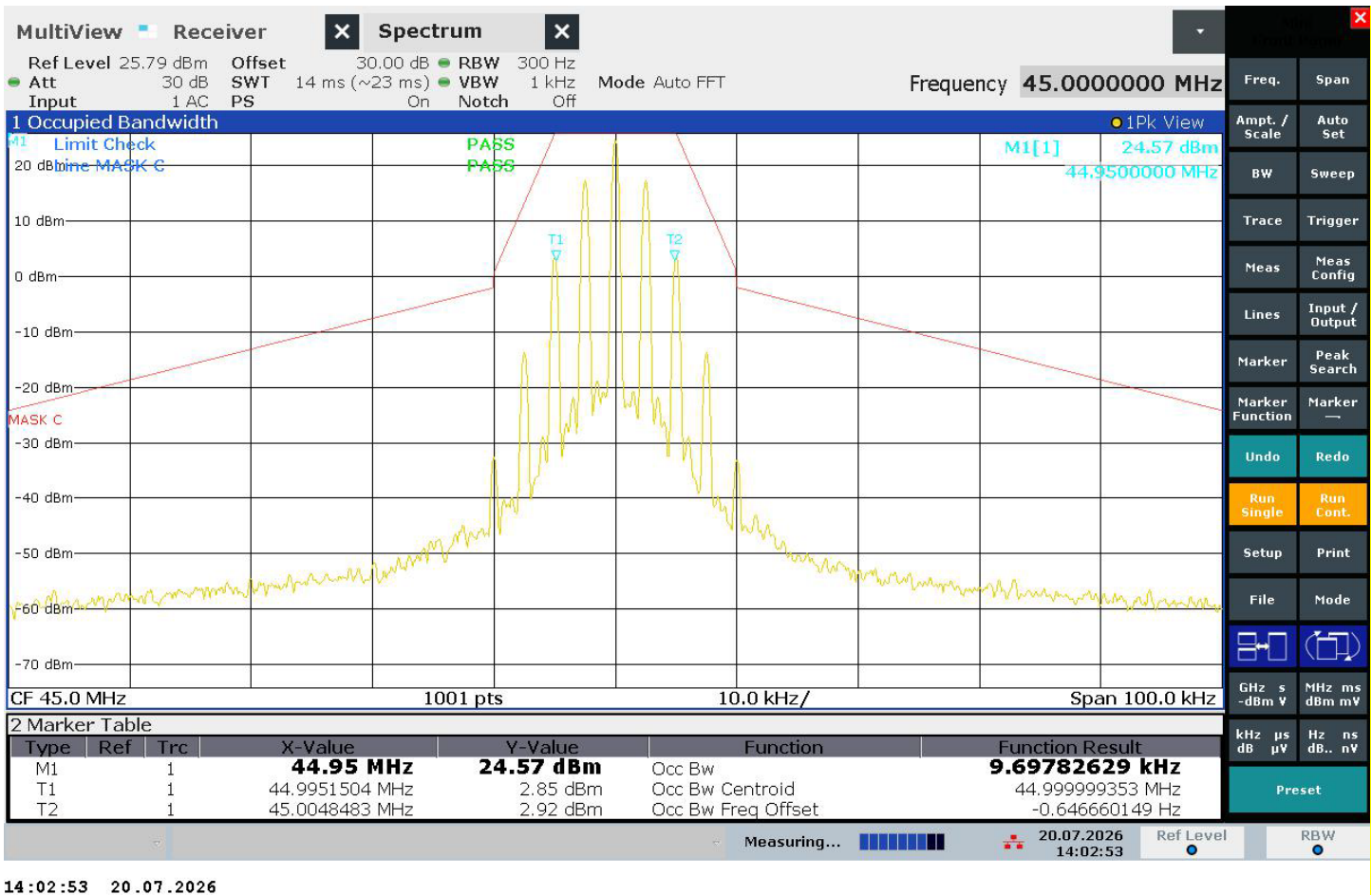
Date: 19.MAY.2026 11:09:46

#### 8.4.5 Emission Mask, C4FM, F3E 39 MHz

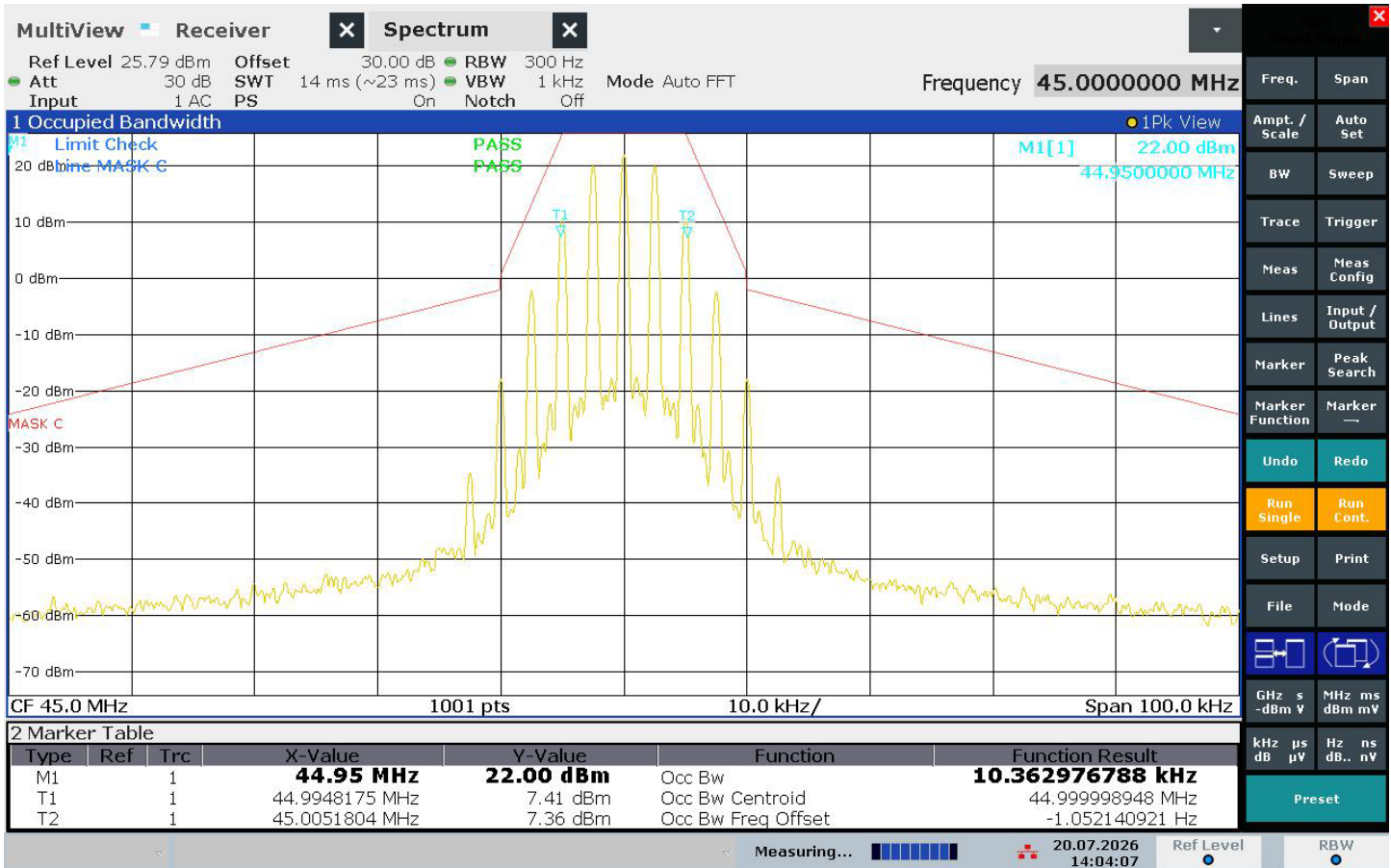


Date: 19.MAY.2026 11:07:54

#### 8.4.6 Emission Mask, 12.5 kHz FM, 45 MHz

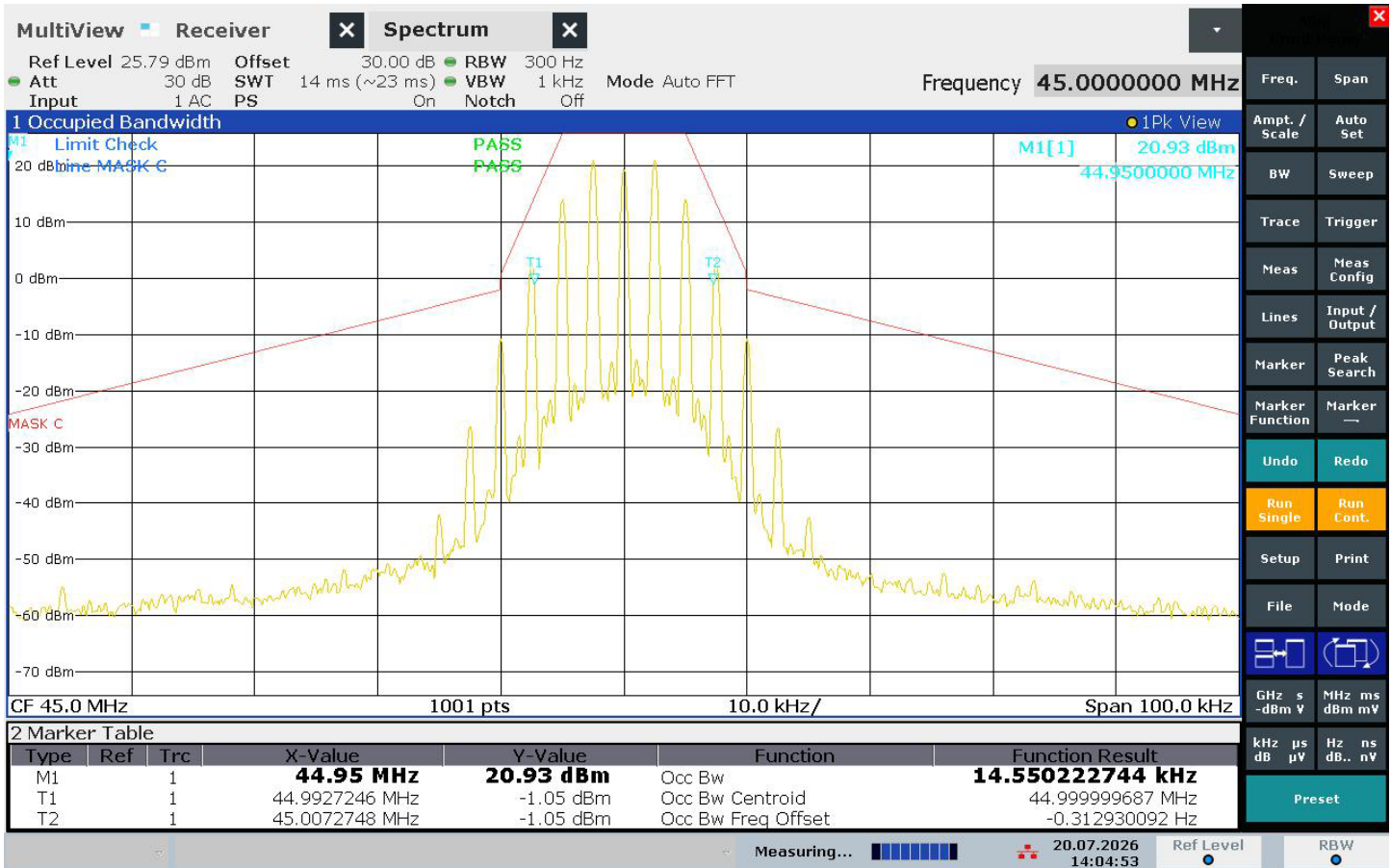


## 8.4.7 Emission Mask, 20 kHz FM, 45 MHz



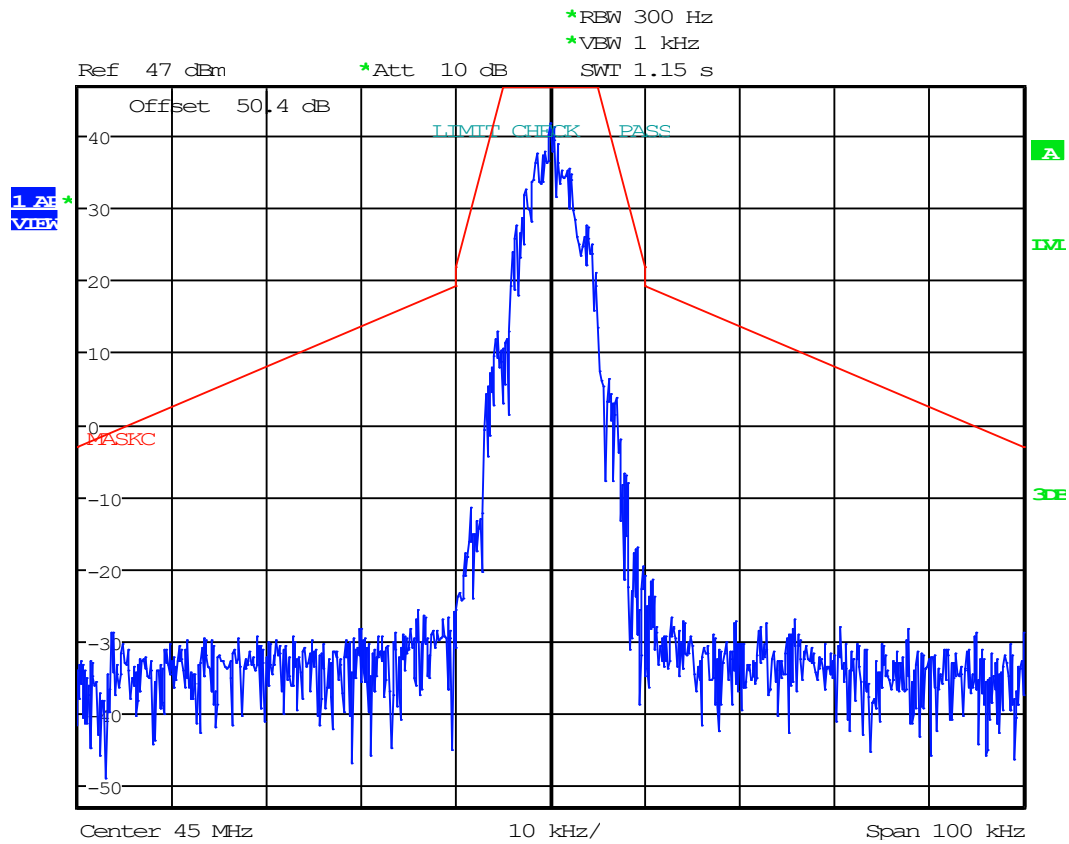
14:04:07 20.07.2026

## 8.4.8 Emission Mask, 25 kHz FM, 45 MHz



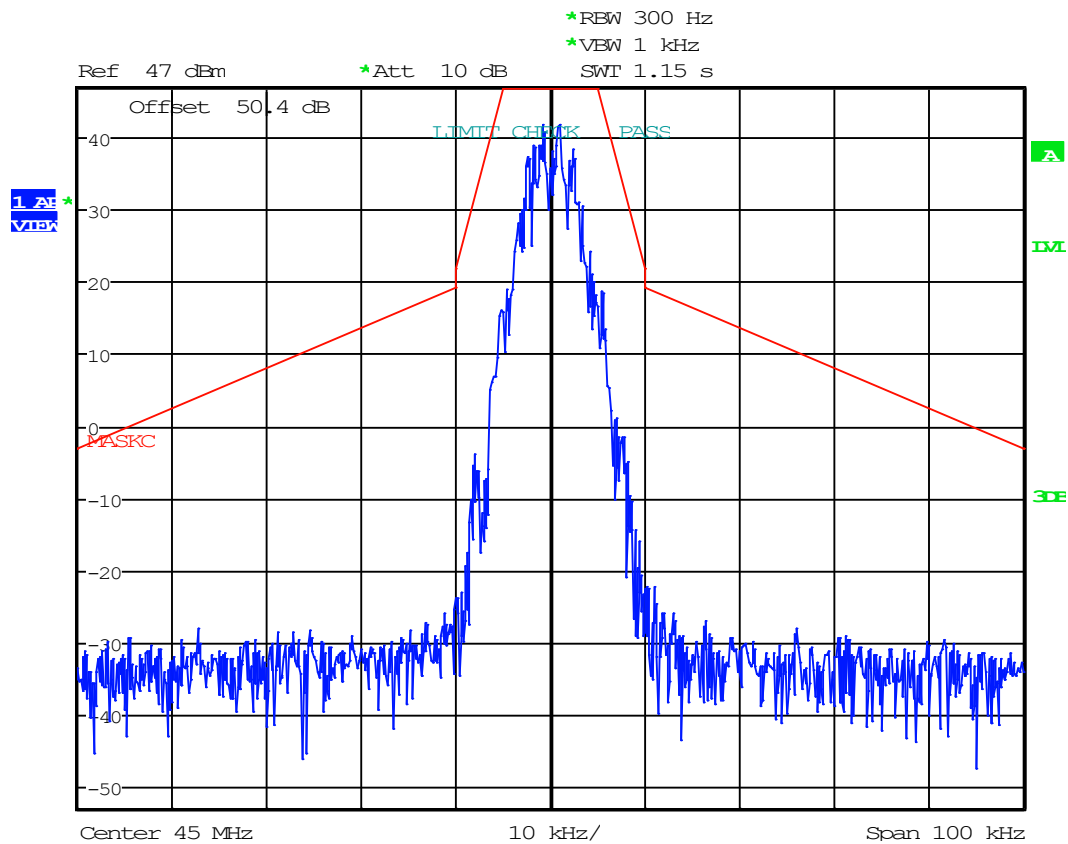
14:04:53 20.07.2026

### 8.4.9 Emission Mask, C4FM, F1D 45 MHz



Date: 19.MAY.2026 11:11:07

#### 8.4.10 Emission Mask, C4FM, F3E 45 MHz



Date: 19.MAY.2026 11:10:28

### 8.4.11 Emission Mask, 12.5 kHz FM, 50 MHz

