



narda 3310 SignalShark Handheld Spectrum Instruction Manual

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3310 SignalShark Handheld Spectrum



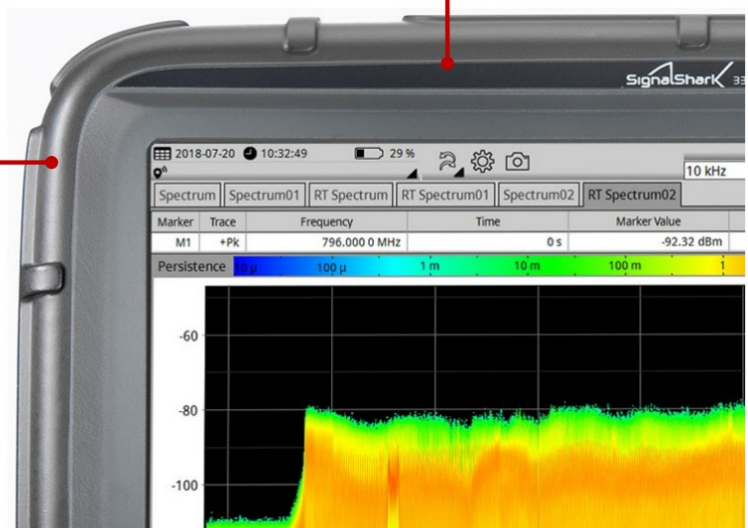
narda

Safety Test Solutions

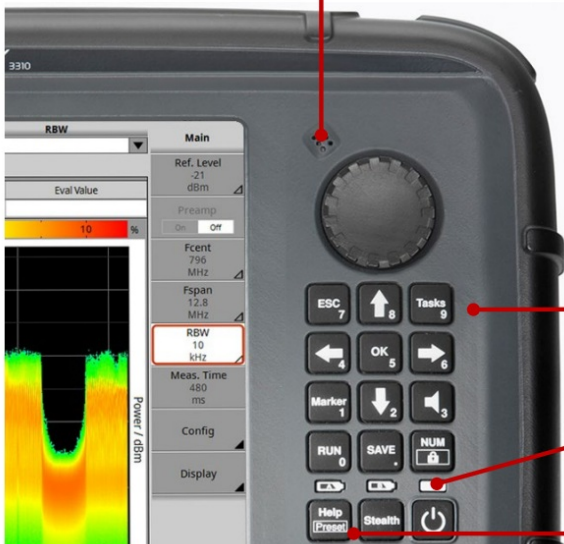
Rugged design for mobile use, even in harsh environments MIL-PRF-28800F class 2



- › 2 x smart technology lithium-ion internal and external rechargeable battery packs
- › Hot-swappable for interruption-free long-term measurements
- › Batteries commercially available, Type: RRC2057, Li-ion, 48 Wh
- › Internal and external charging
- › Car-charger available
- › Operating time: approx. 3 hours



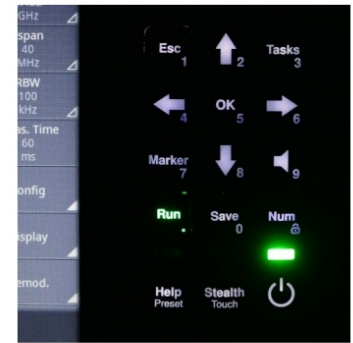
Microphone to record voice comments



Scroll wheel and keyboard for

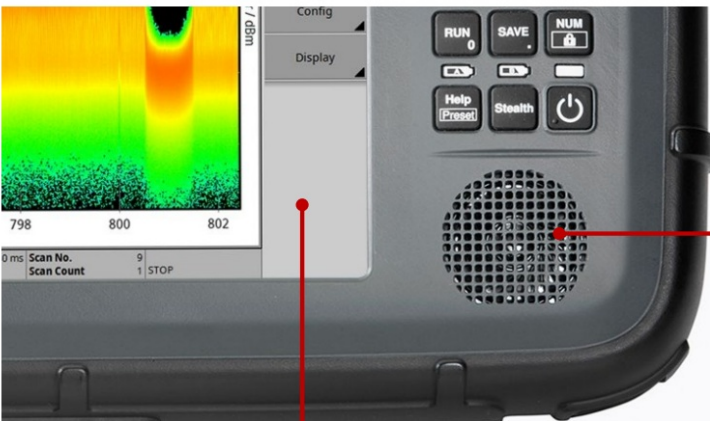
- › Navigating
- › Changing settings
- › Entering values
- › Confirming/deleting inputs

Illuminated keyboard for working in dark environments



LEDs to indicate the operating status separately for batteries as well as for the operating status of the device.

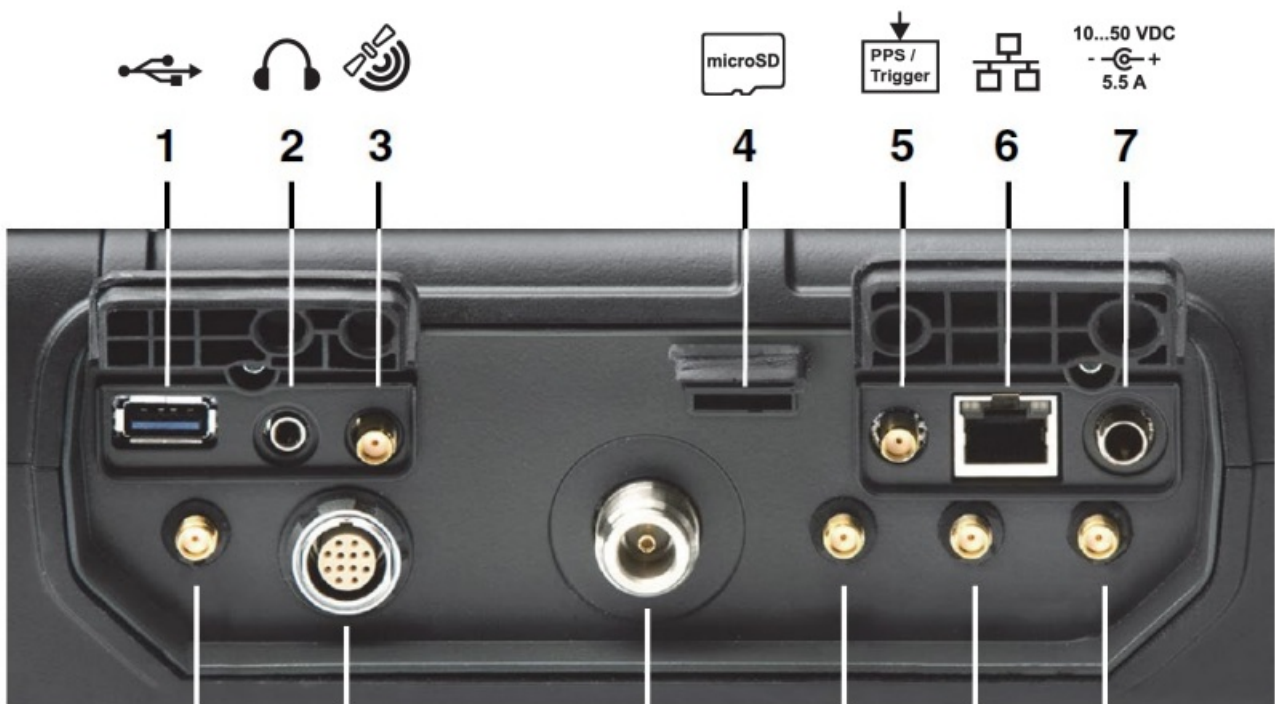
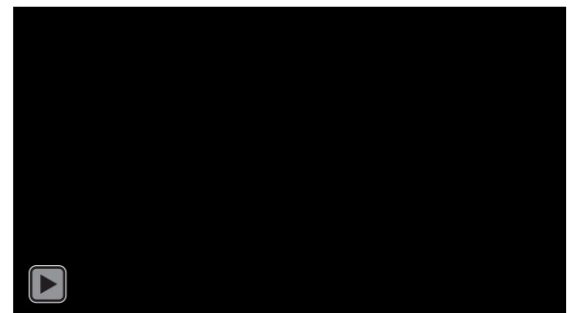
Built-in help function, Stealth mode, keyboard and touch lock

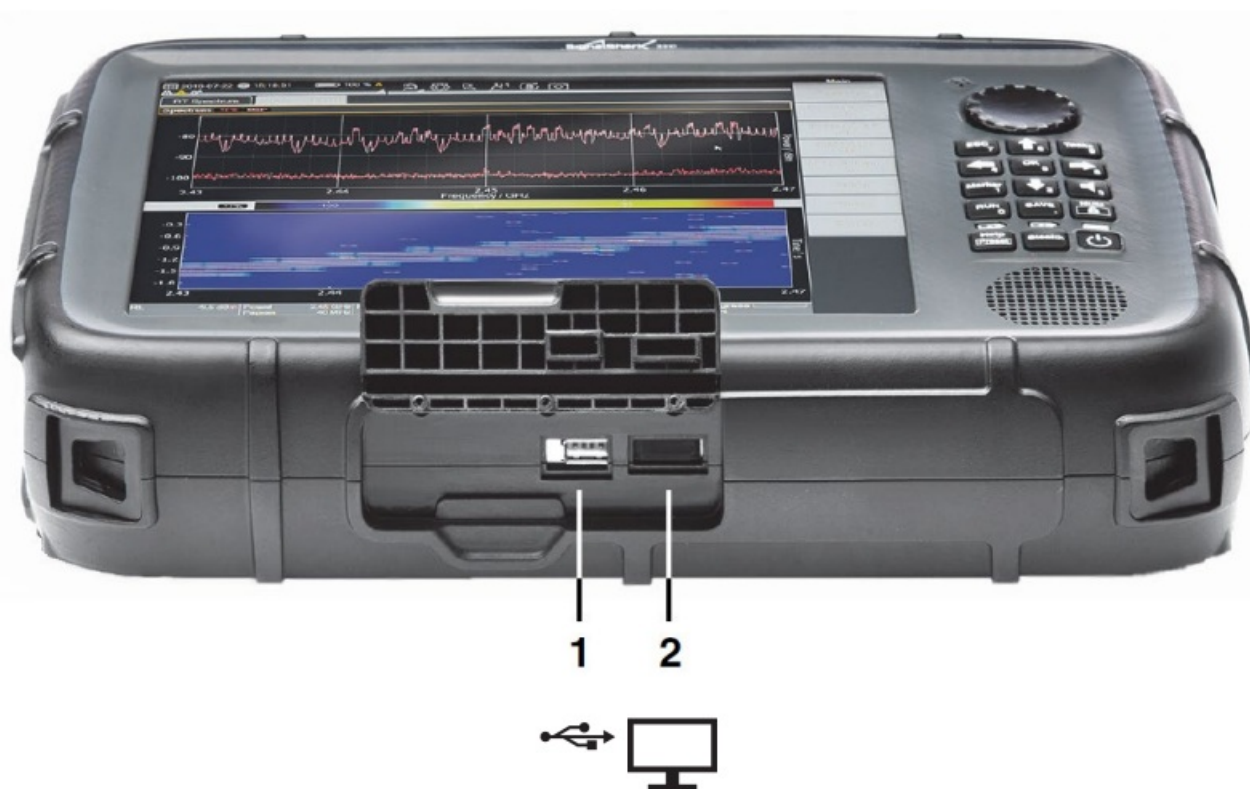
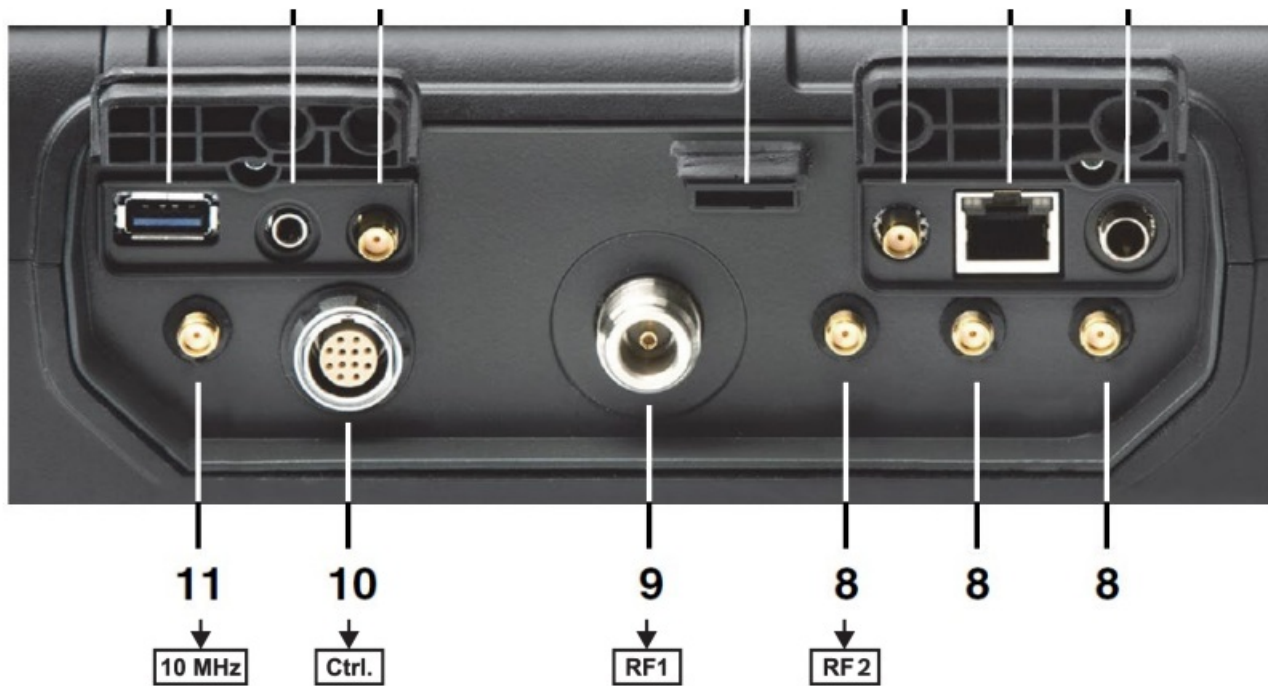


Built-in weather sealed loudspeaker gives clear, loud sound reproduction, even in noisy environments

10.4" resistive touch screen

- › Intuitive operation, even when wearing gloves
- › Shielded for extreme EMC immunity







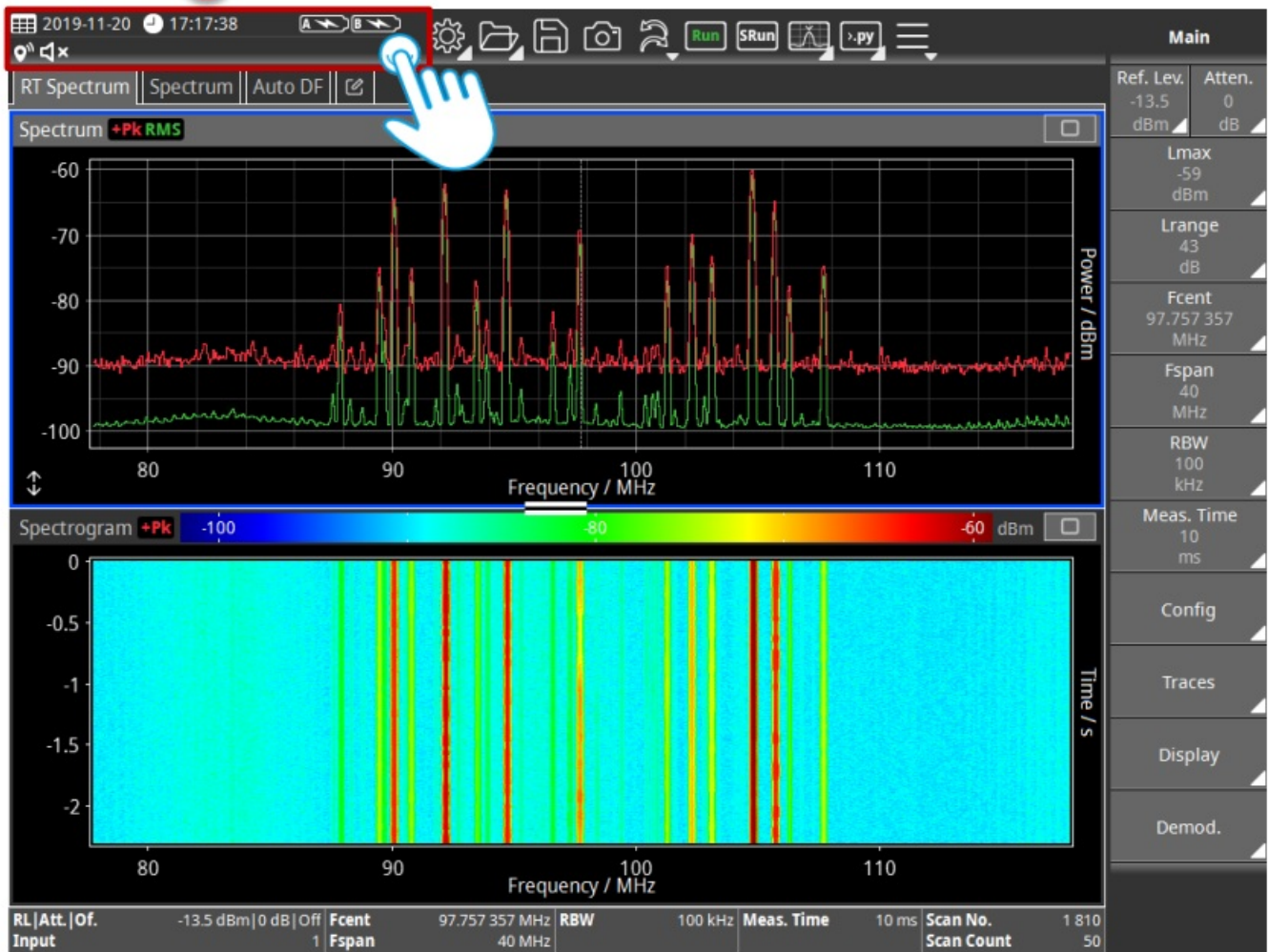






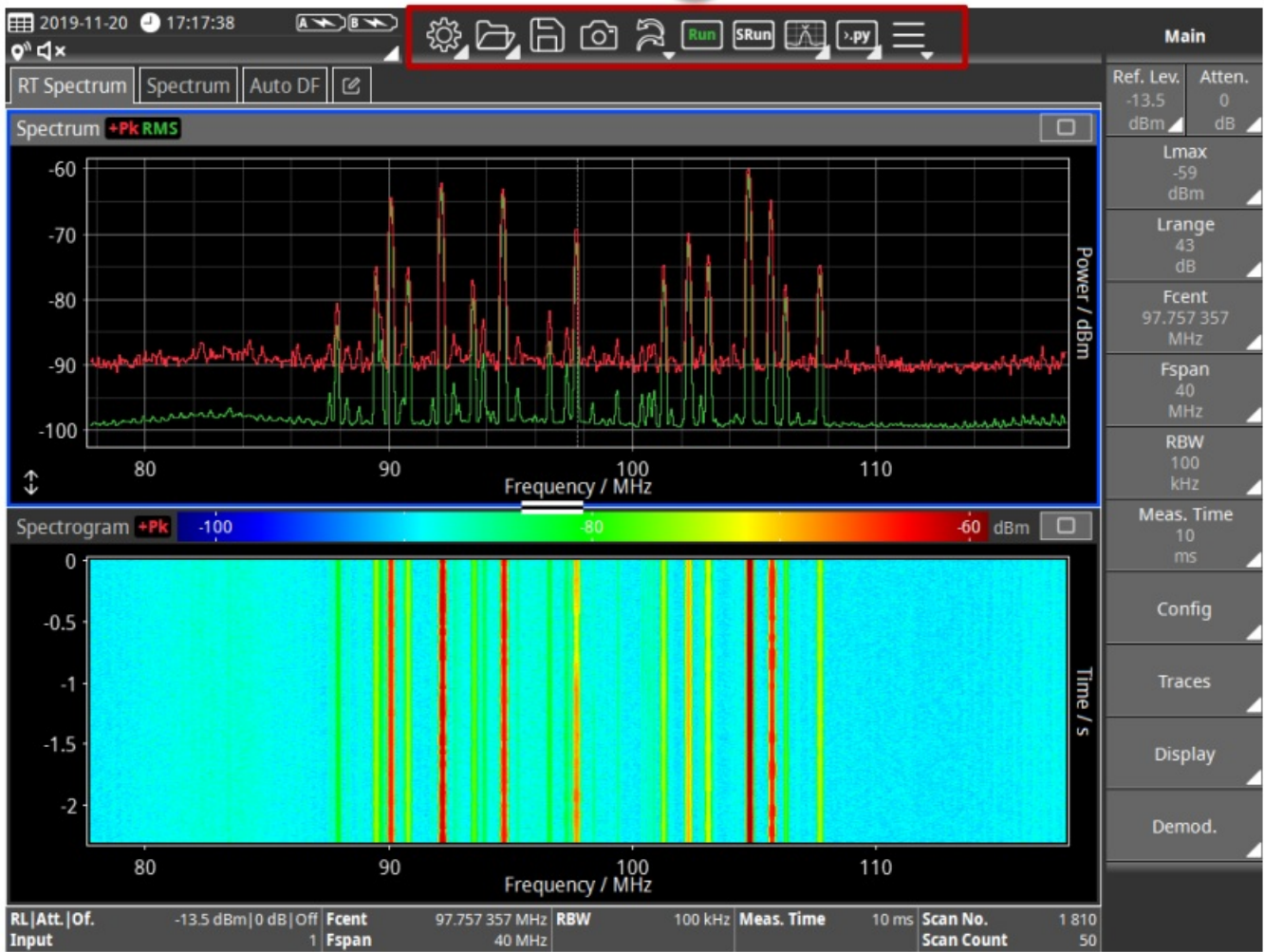


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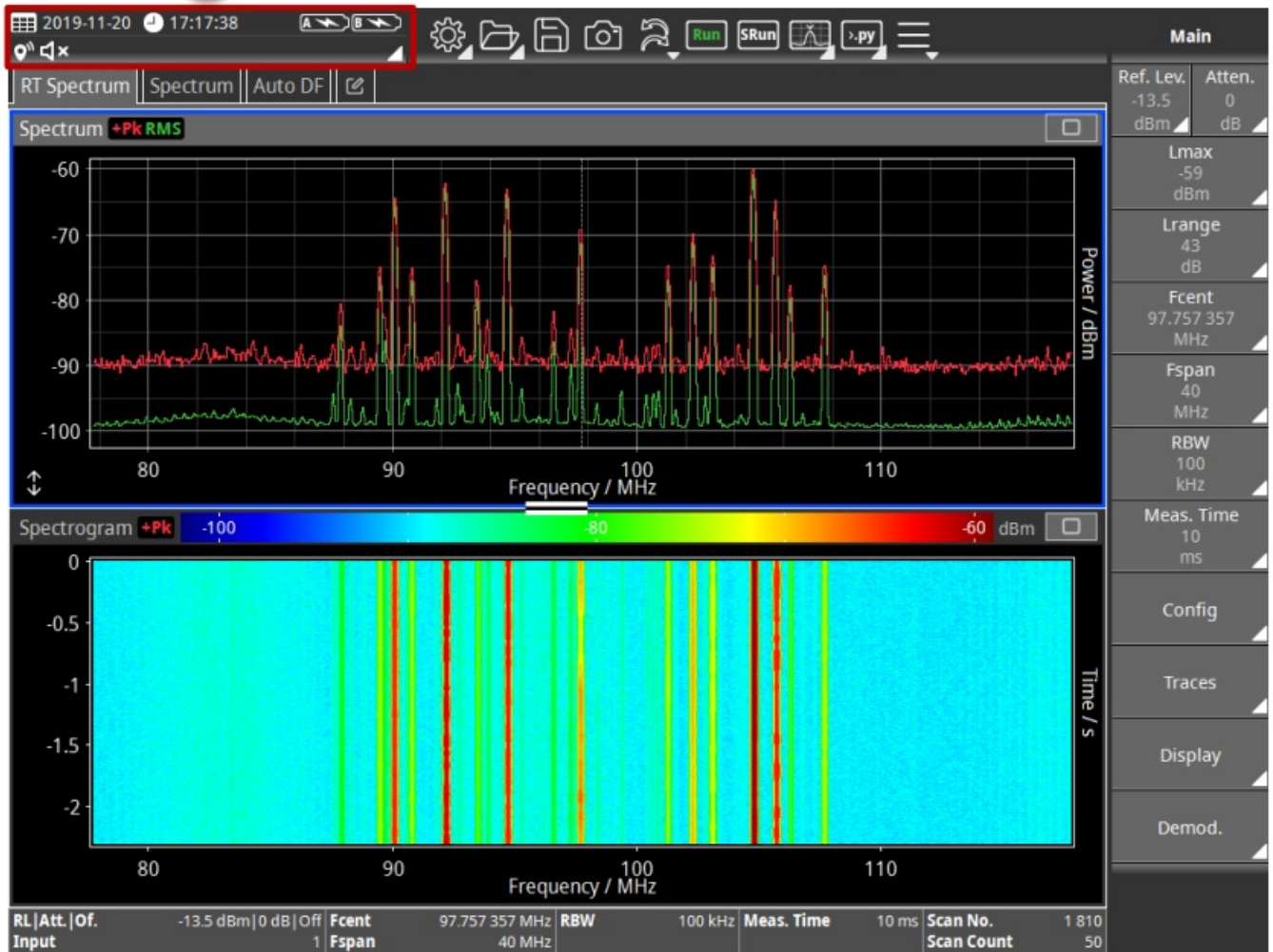


Parameter	Value
Product Name (P/N)	SignalShark Basic Unit
Part Number	3310/01
Serial Number (S/N)	A-0055
Application Version	V1.4.0 beta4
Application Date	2019-06-05
FPGA Bitstream Version	528
FPGA µBlaze Version	28
Board Controller Bootloader Version	V0.9.3
Board Controller Firmware Version	V1.1.0
BIOS Version	TQMxE38M.5.4.48.28.19
Operation System Version	V2.0.6
Customizing Version	02.00.00.08
Driver Installation Version	02.00.00.04
FPGA PCIe Driver Version	1.8.0.0
FPGA Manager Version	1.30
Manufacturer Calibration Date	2001-01-01

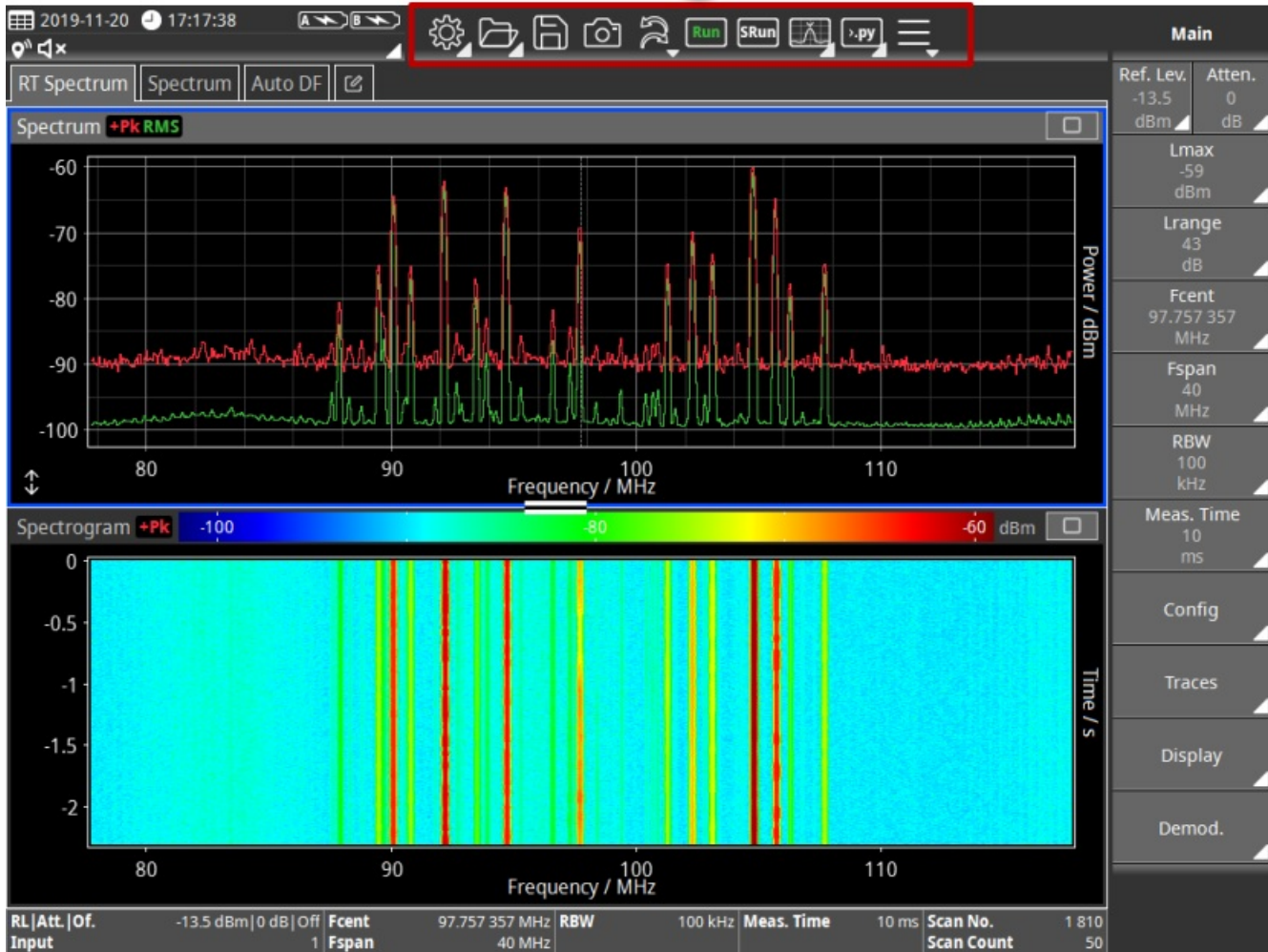
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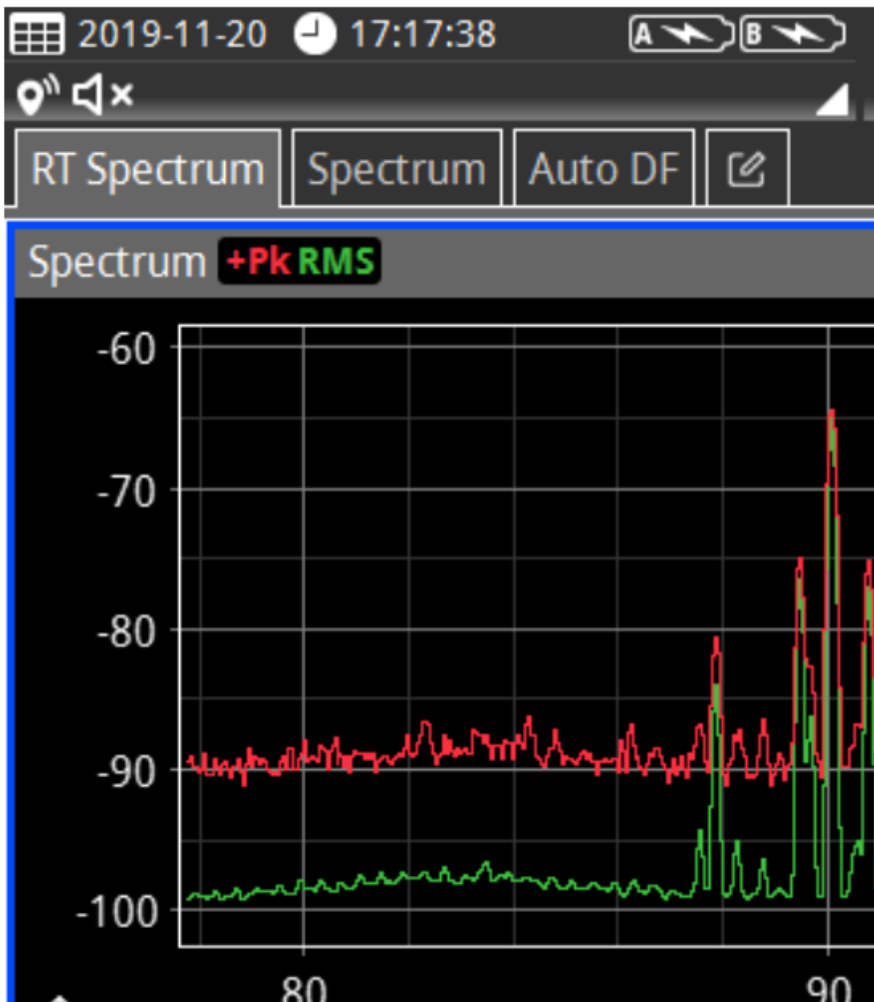


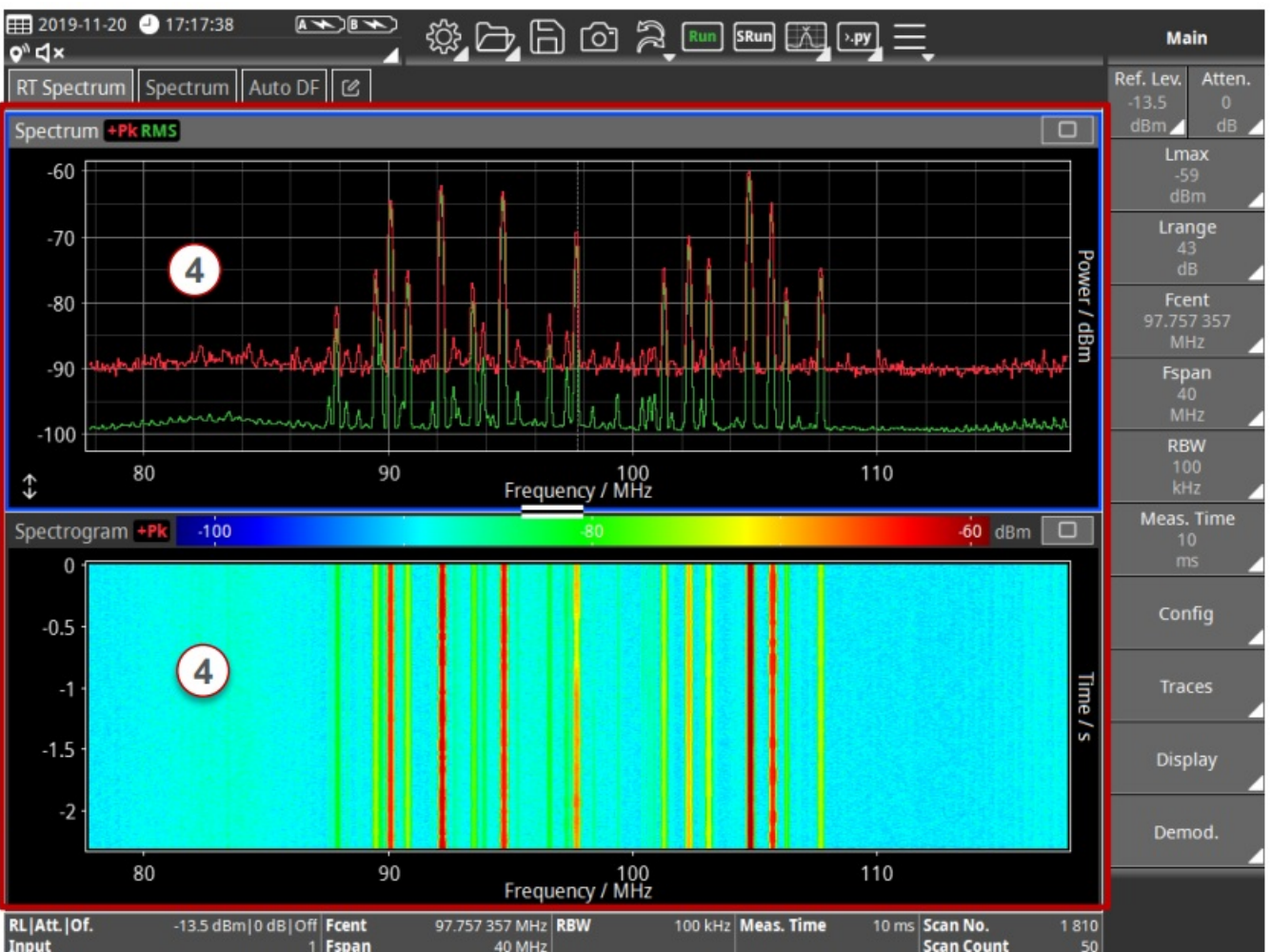
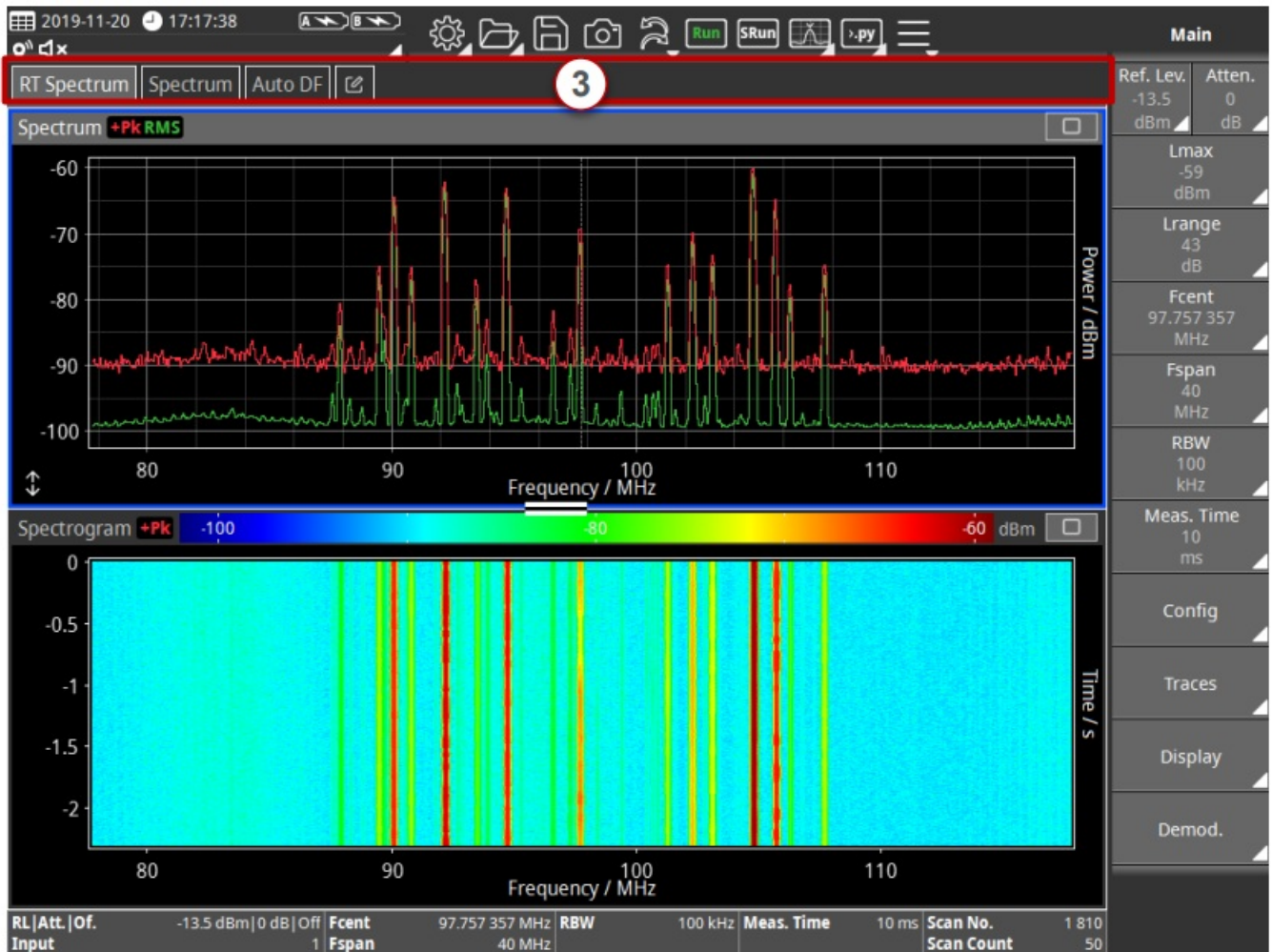
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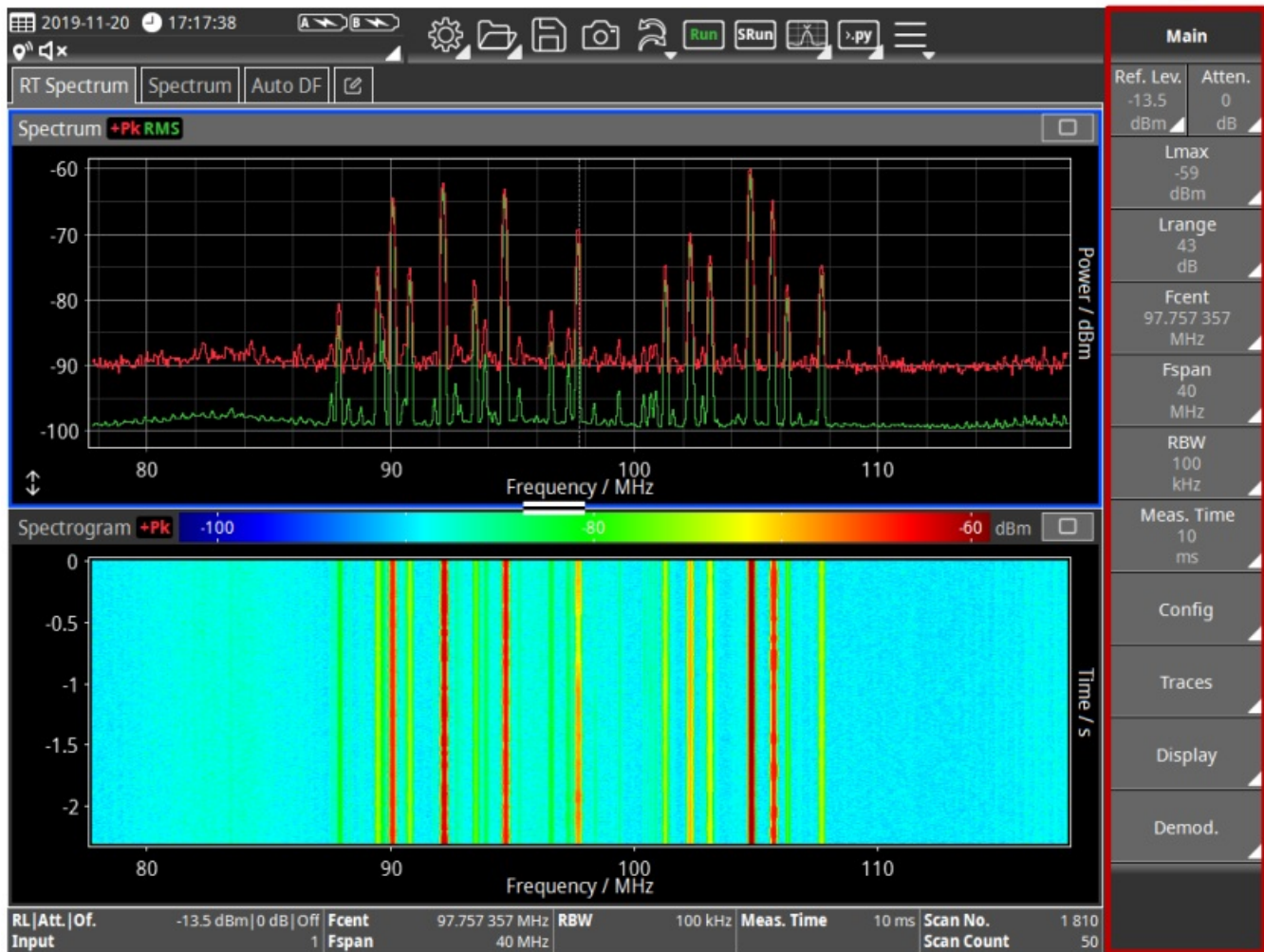


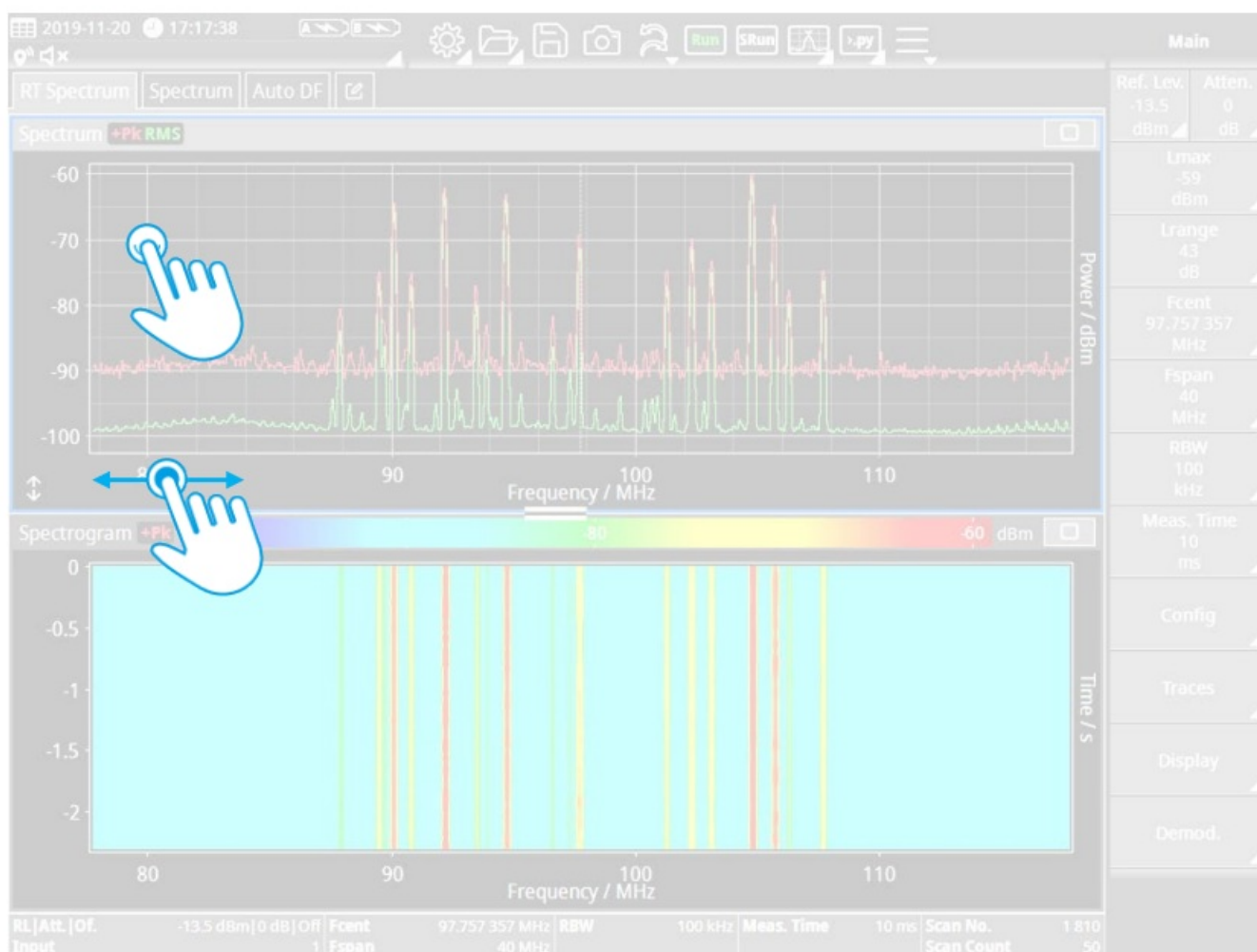
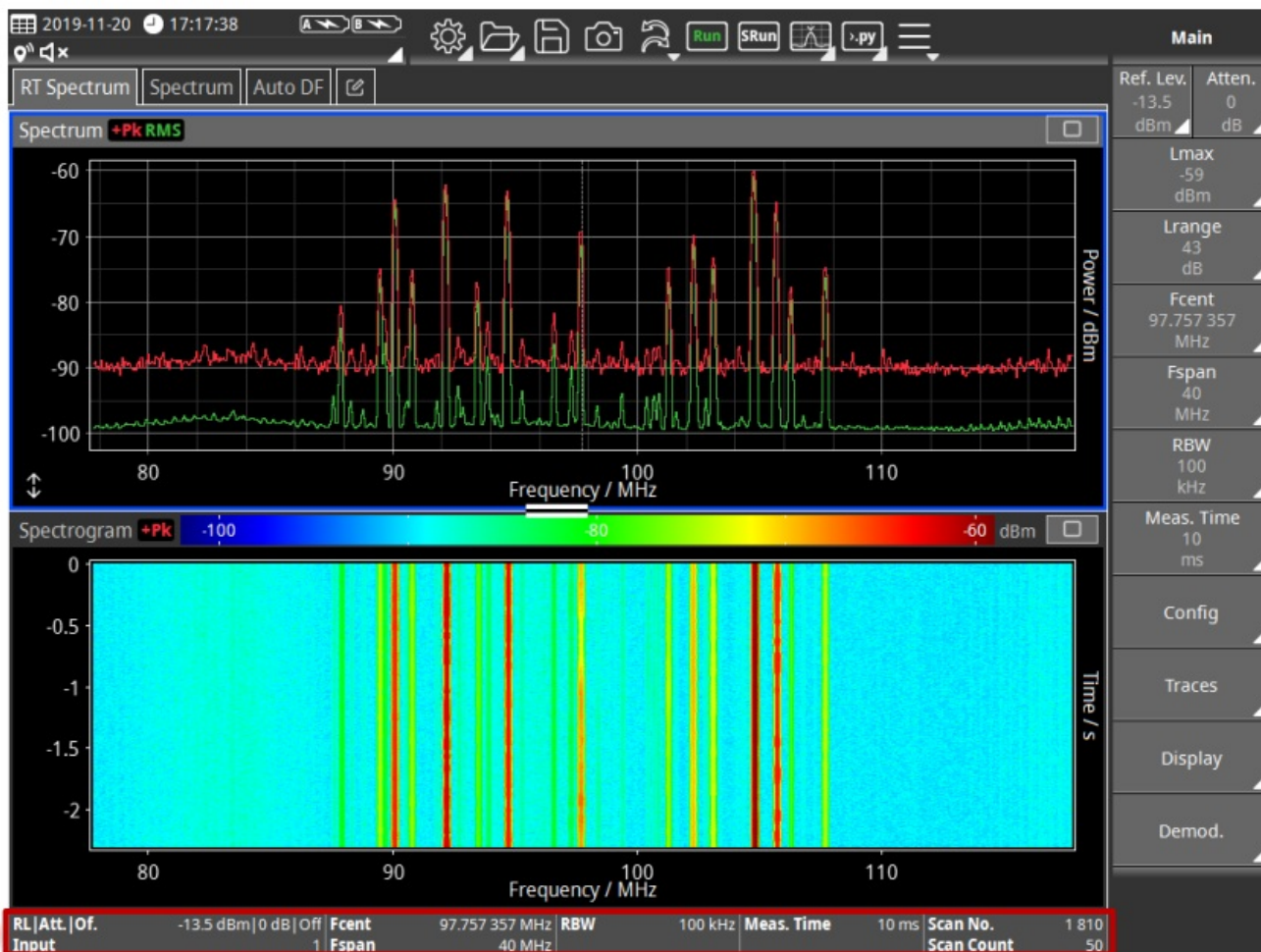
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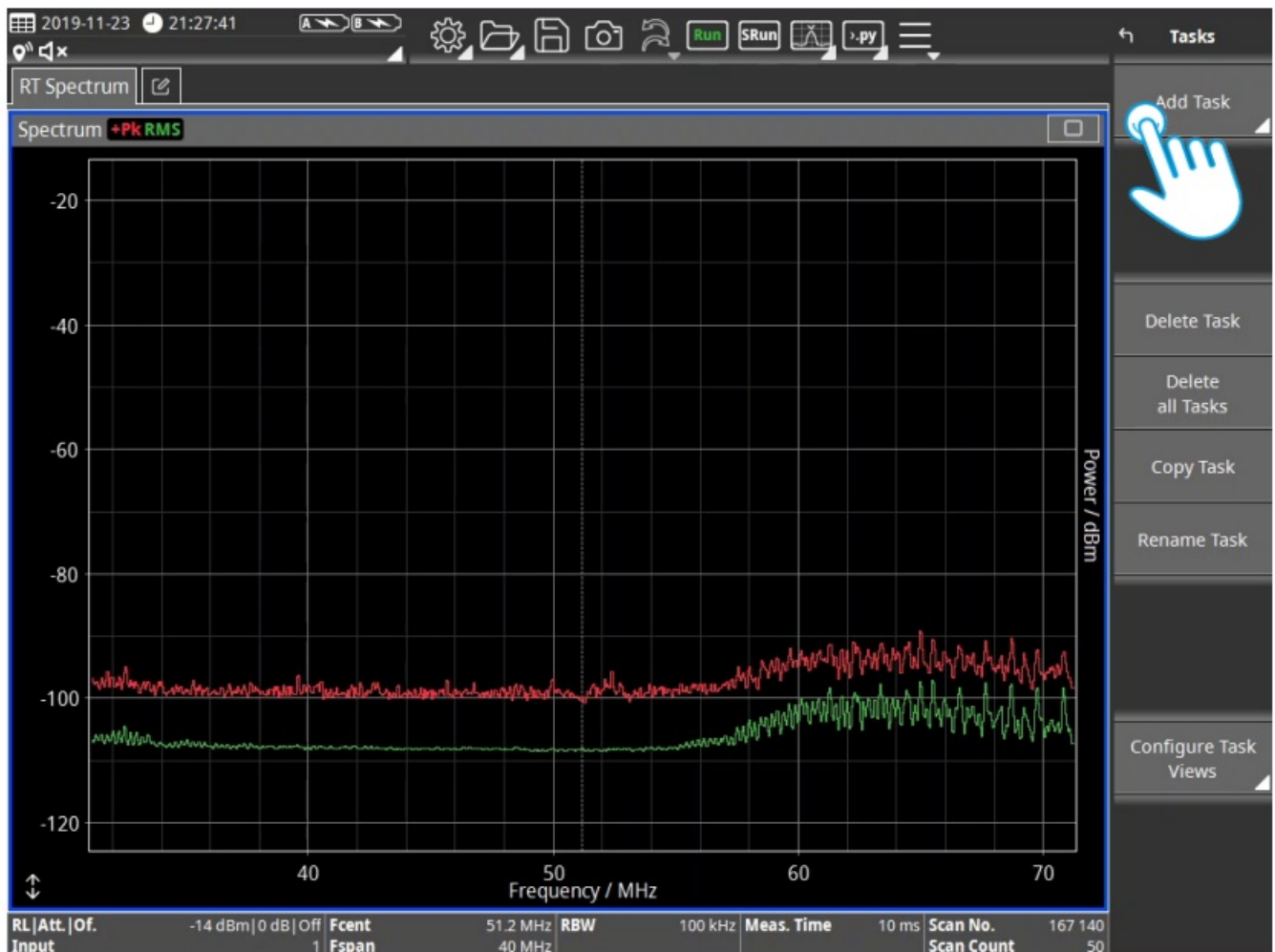
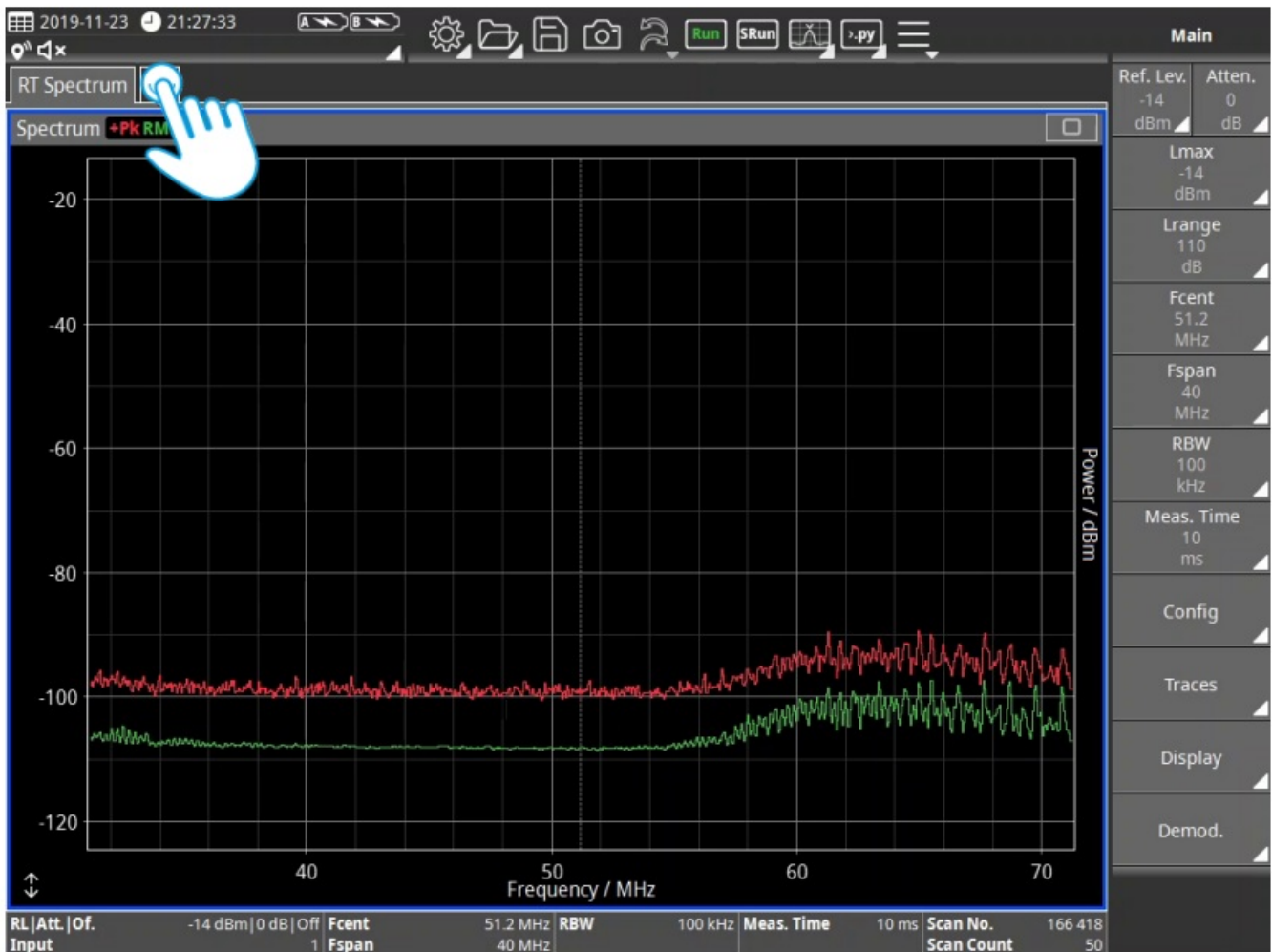












2019-11-23 21:27:48





RunSRun



Add Task

Task Types



Auto DF

An Auto DF Task supports the use of the Narda Automatic DF Antennas (ADFA). The optional available map and localization functionality, which is integrated into the SignalShark GUI, allows the reliable localization of transmitters. It supports the Task Views: Spectrum, Peak Table (of Spectrum), Bearing* and Map*.
*Software Option



Auto DF - Heatmap City Vehicle

Automatic direction finding and heatmap localization in an urban area with ADFA mounted to the rooftop of a vehicle using GNSS to align the bearings to the north. Option 3310/95.005 Automatic DF Antenna Control, Bearing View is required! Option 3310/95.006 Mapping and Localization is required!



Predefined Setups

In the Setups section, you can load and save predefined Task and View configurations to ensure fast measurement setup and consistent measurements.



RT Spectrum

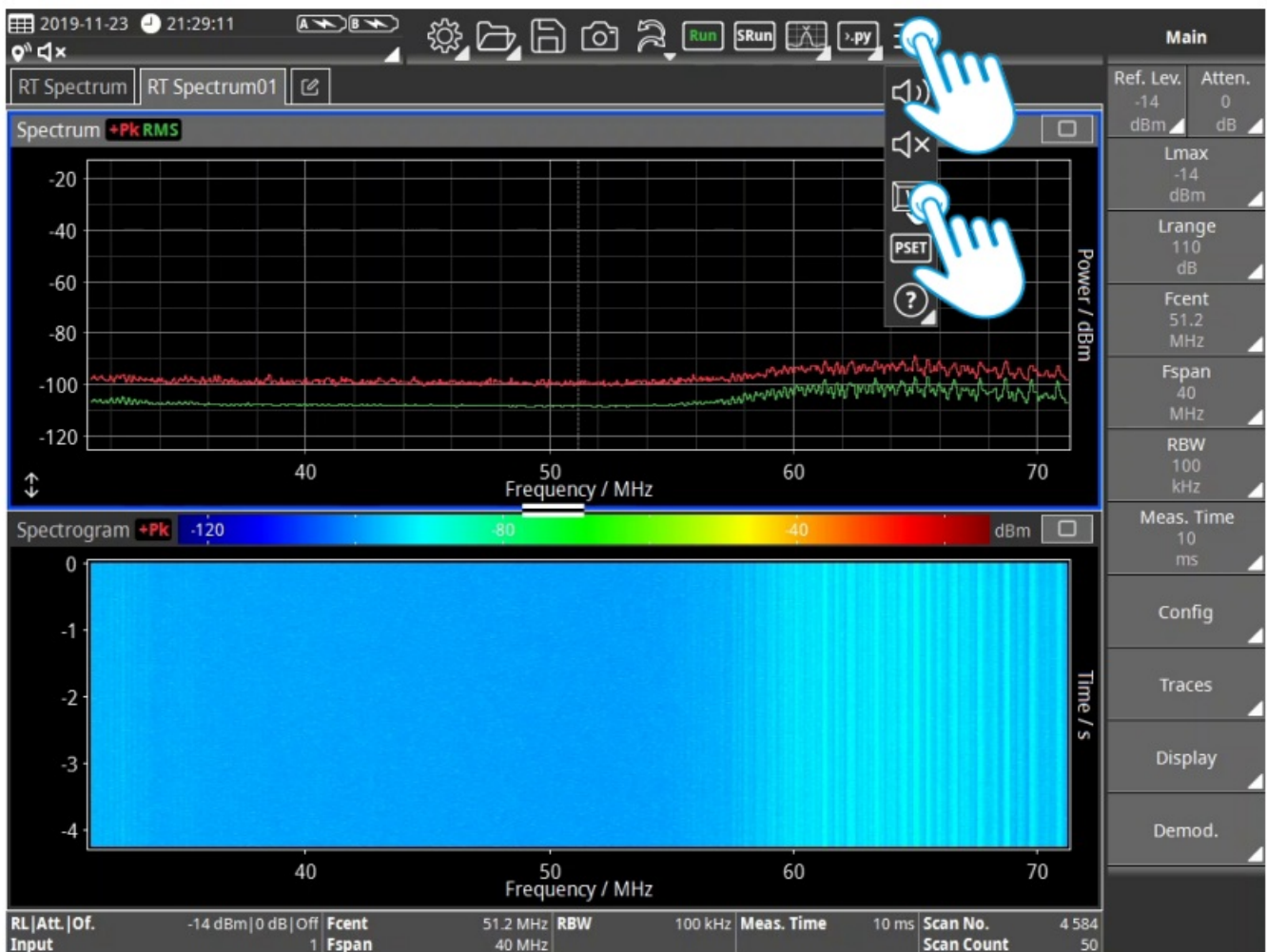
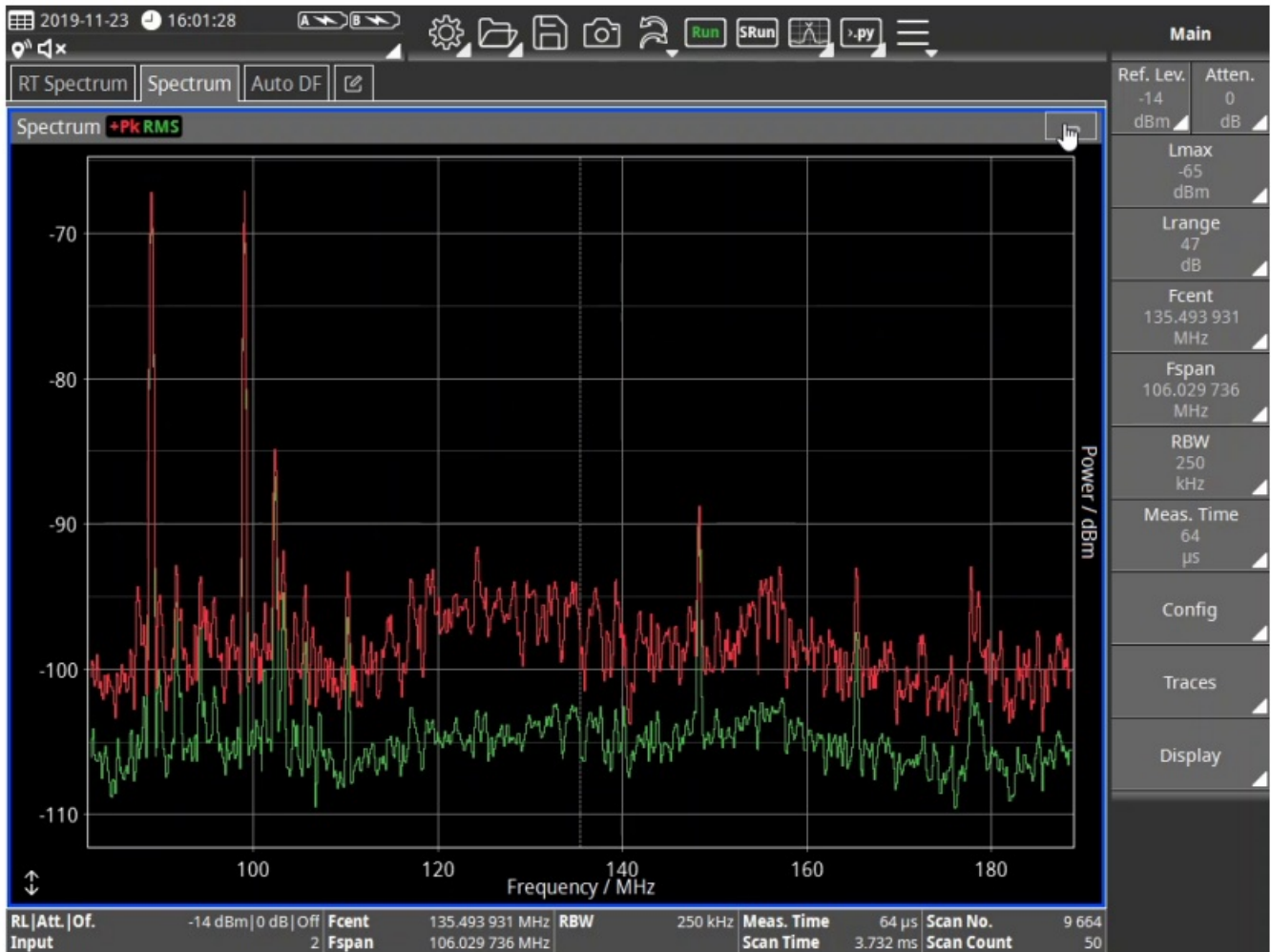
A Real-Time Spectrum Task enables spectrum measurements with a frequency span of up to 40 MHz in real-time. All frequencies within the frequency span are acquired simultaneously with no time gaps. It supports the Task Views: Spectrum, Peak Table (of Spectrum), Spectrogram*, Persistence*, Level Meter* and Map*.
*Software Option

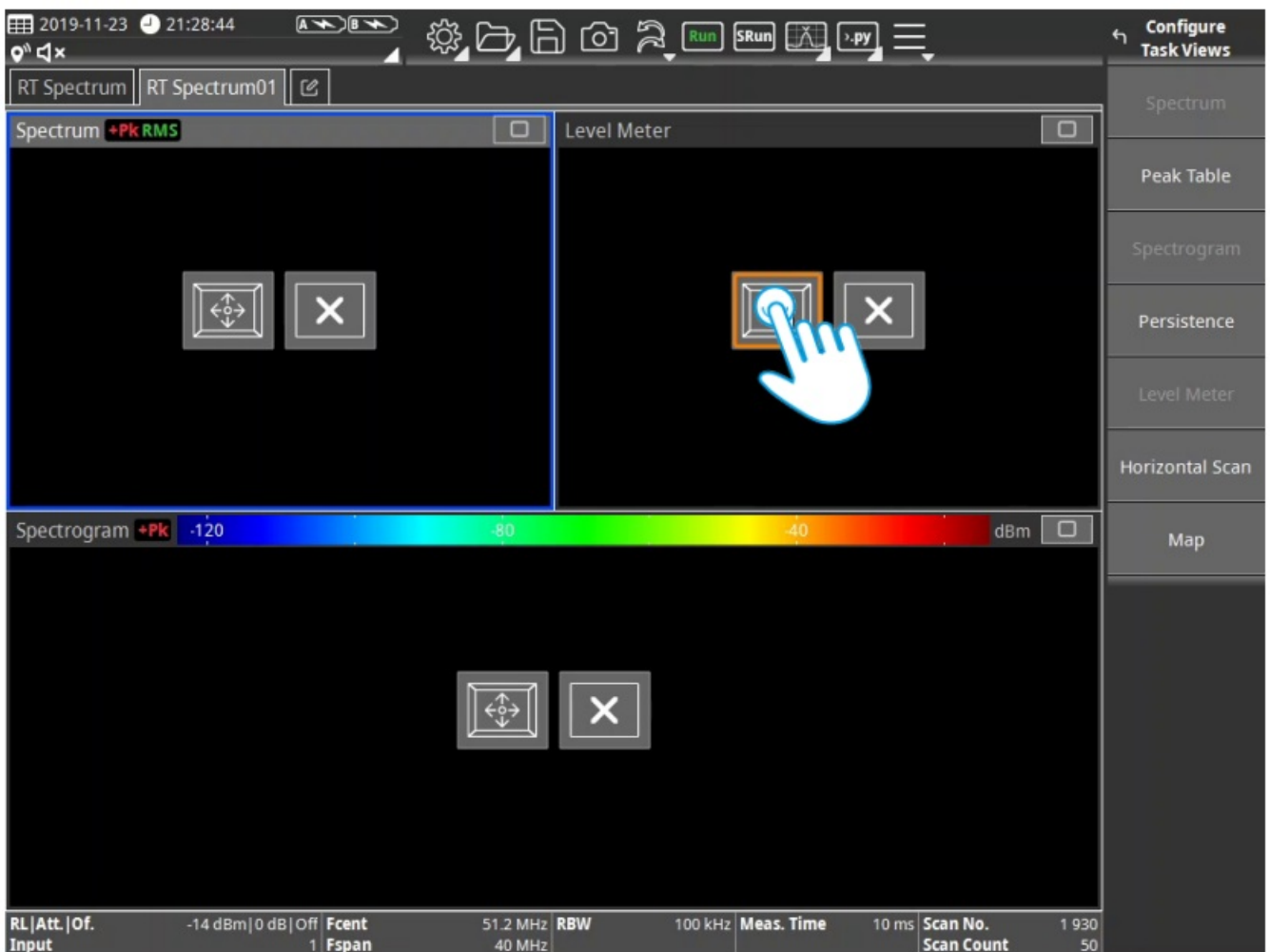
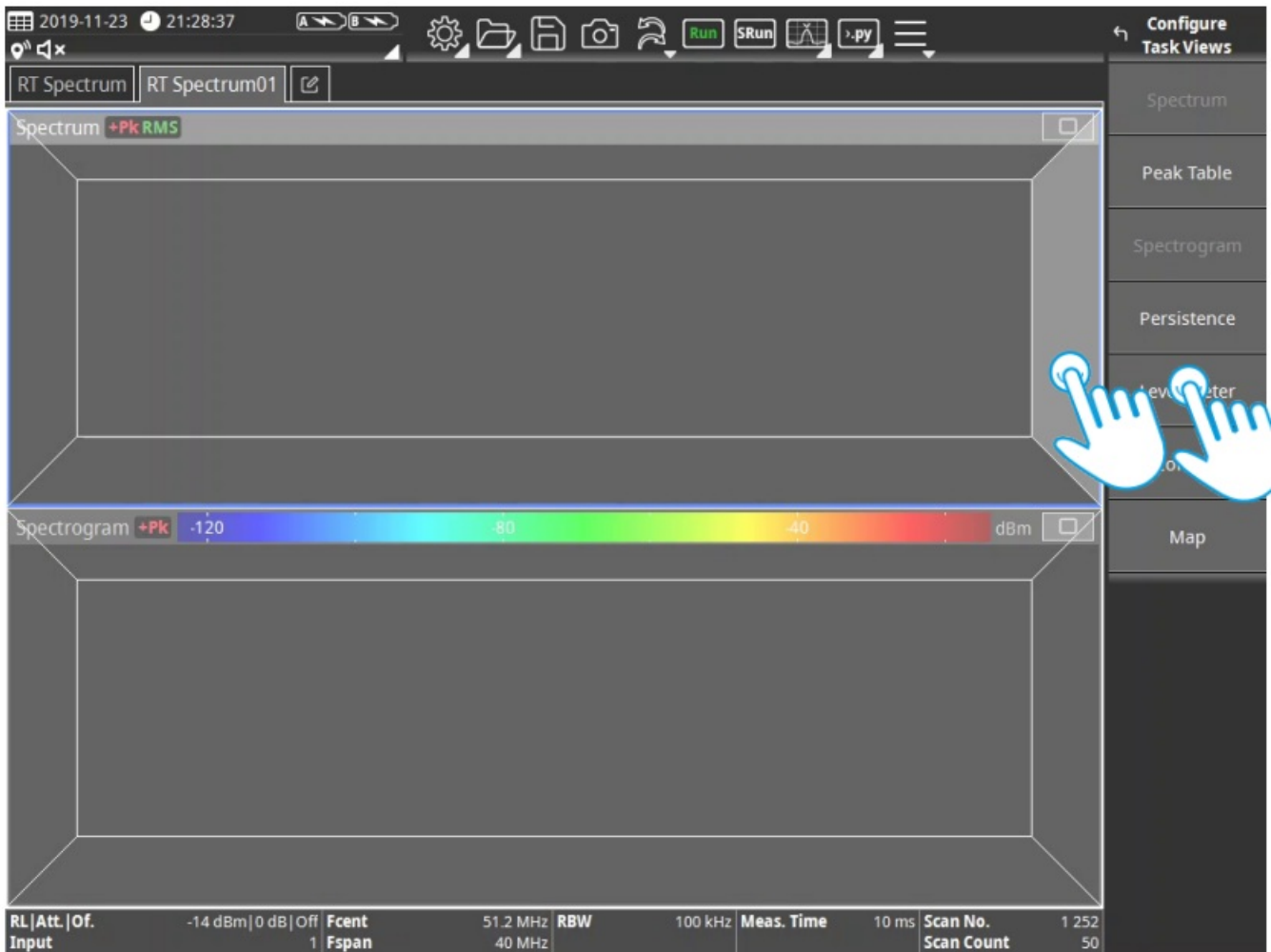


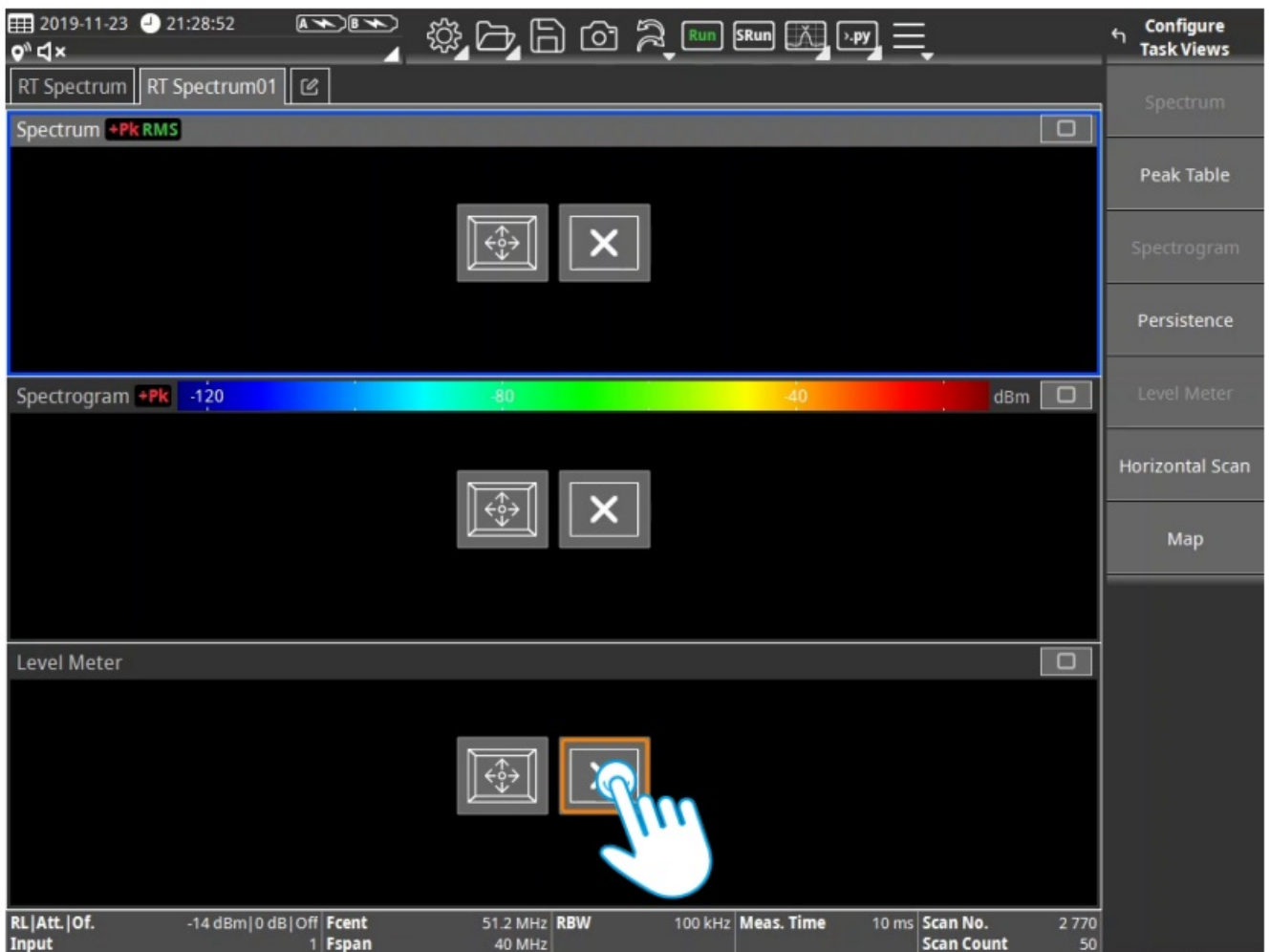
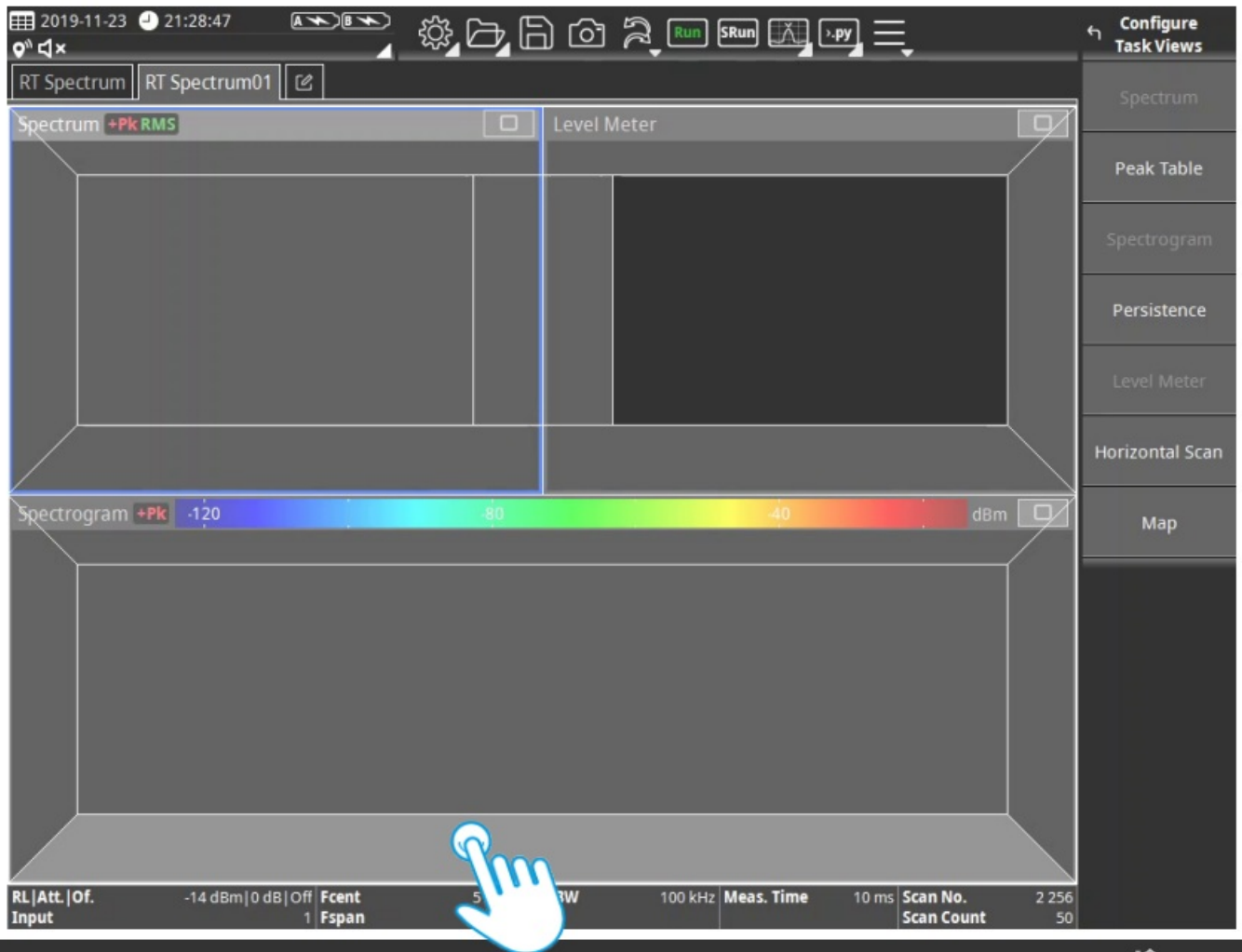
RT Spectrum - Horizontal Scan

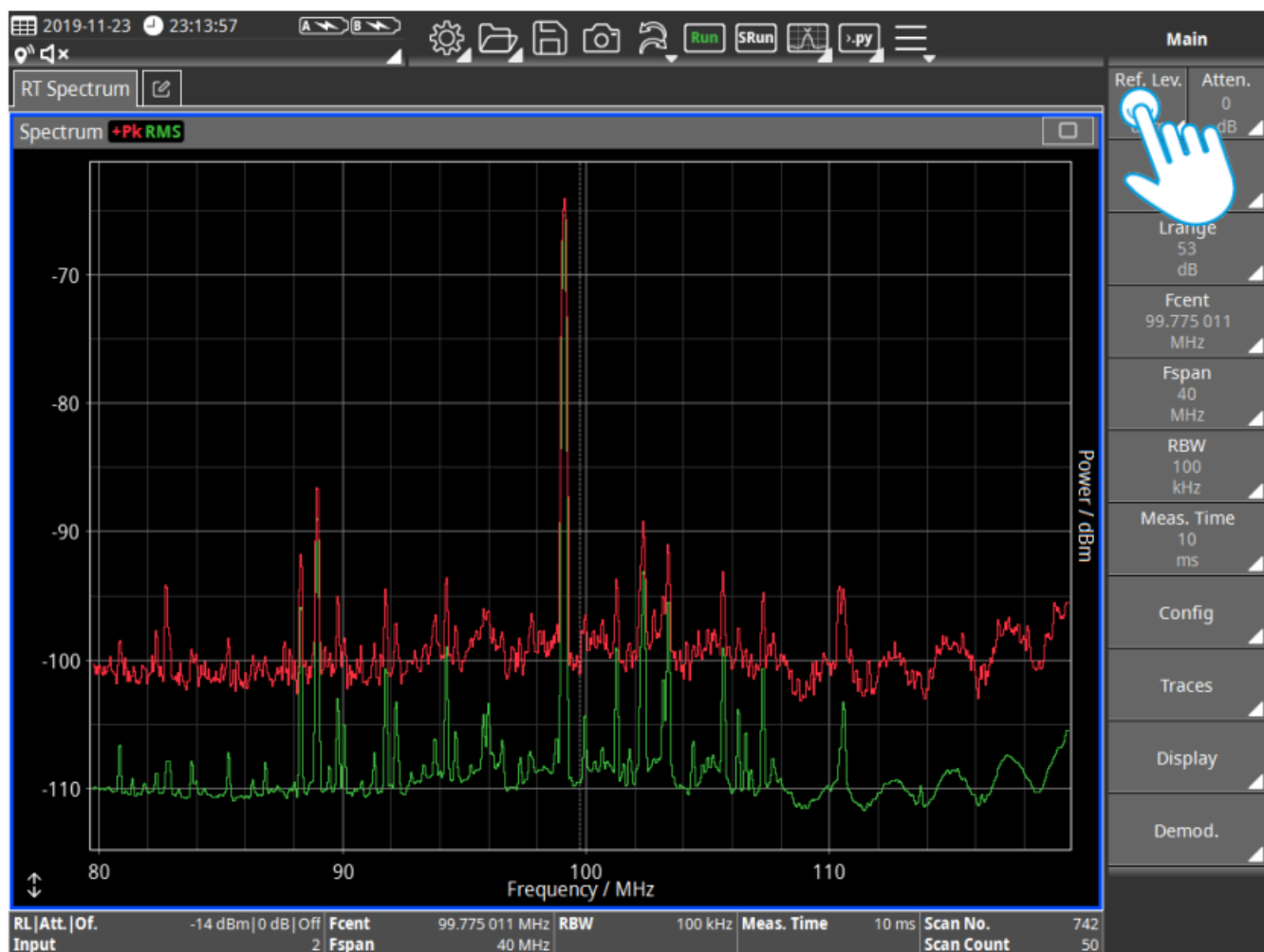
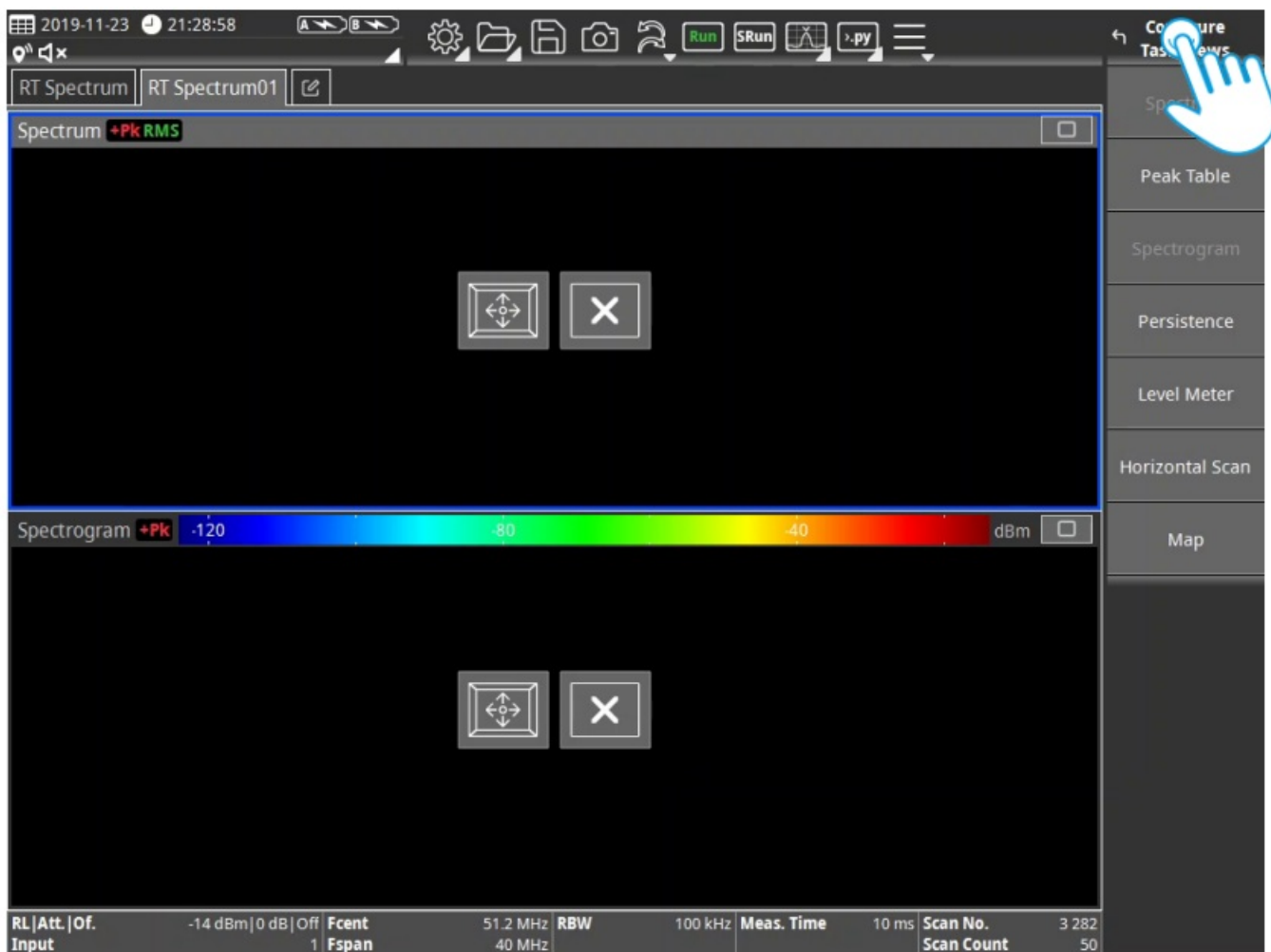
RT Spectrum Task configured with Spectrum View, Horizontal Scan View and Map View for semi-automatic direction finding and localization using a handheld directional antenna. Option 3310/95.011 Horizontal Scan is required! Option 3310/95.006 Mapping and Localization is recommended.

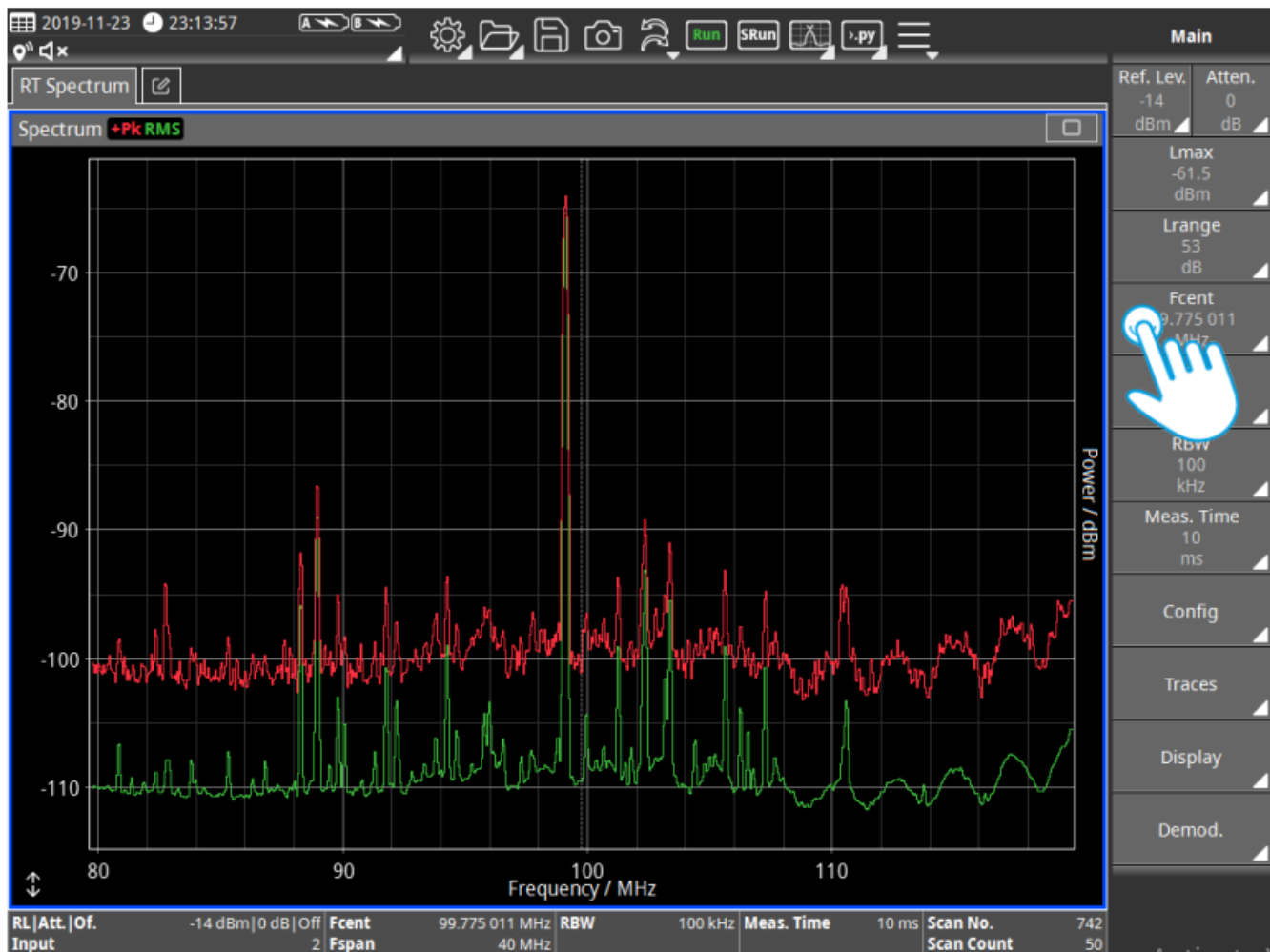
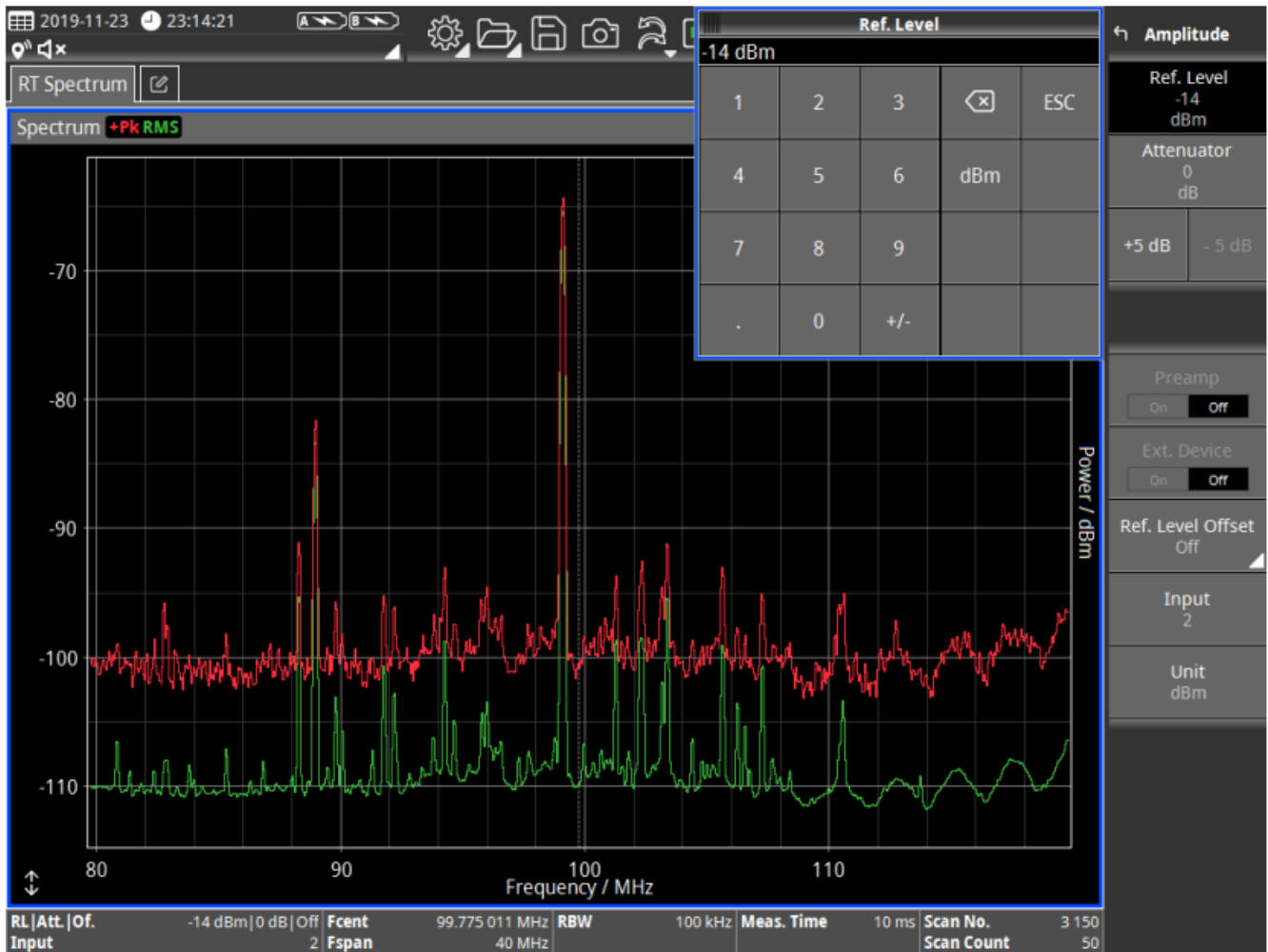


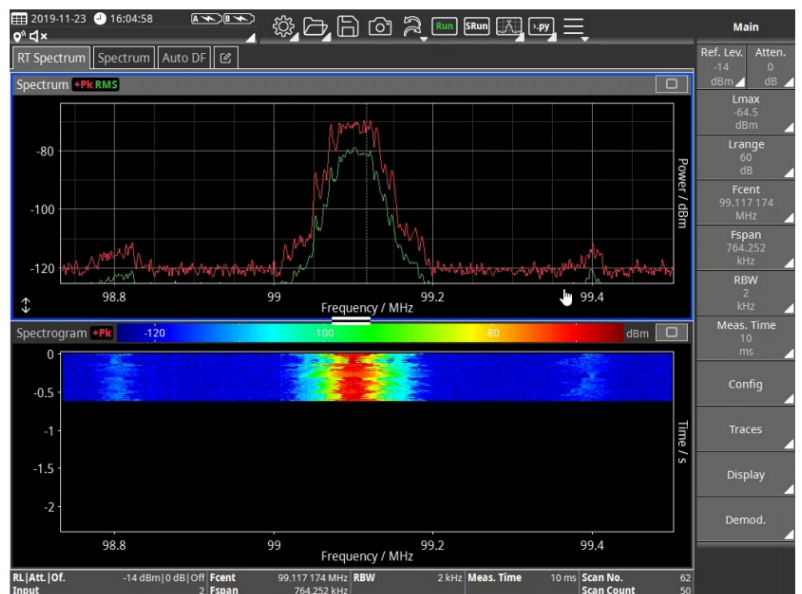
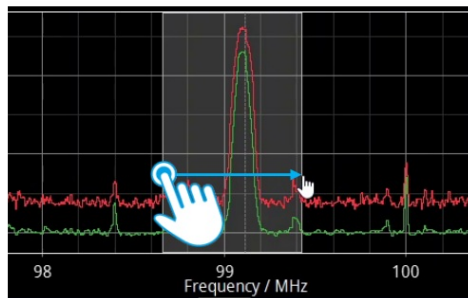
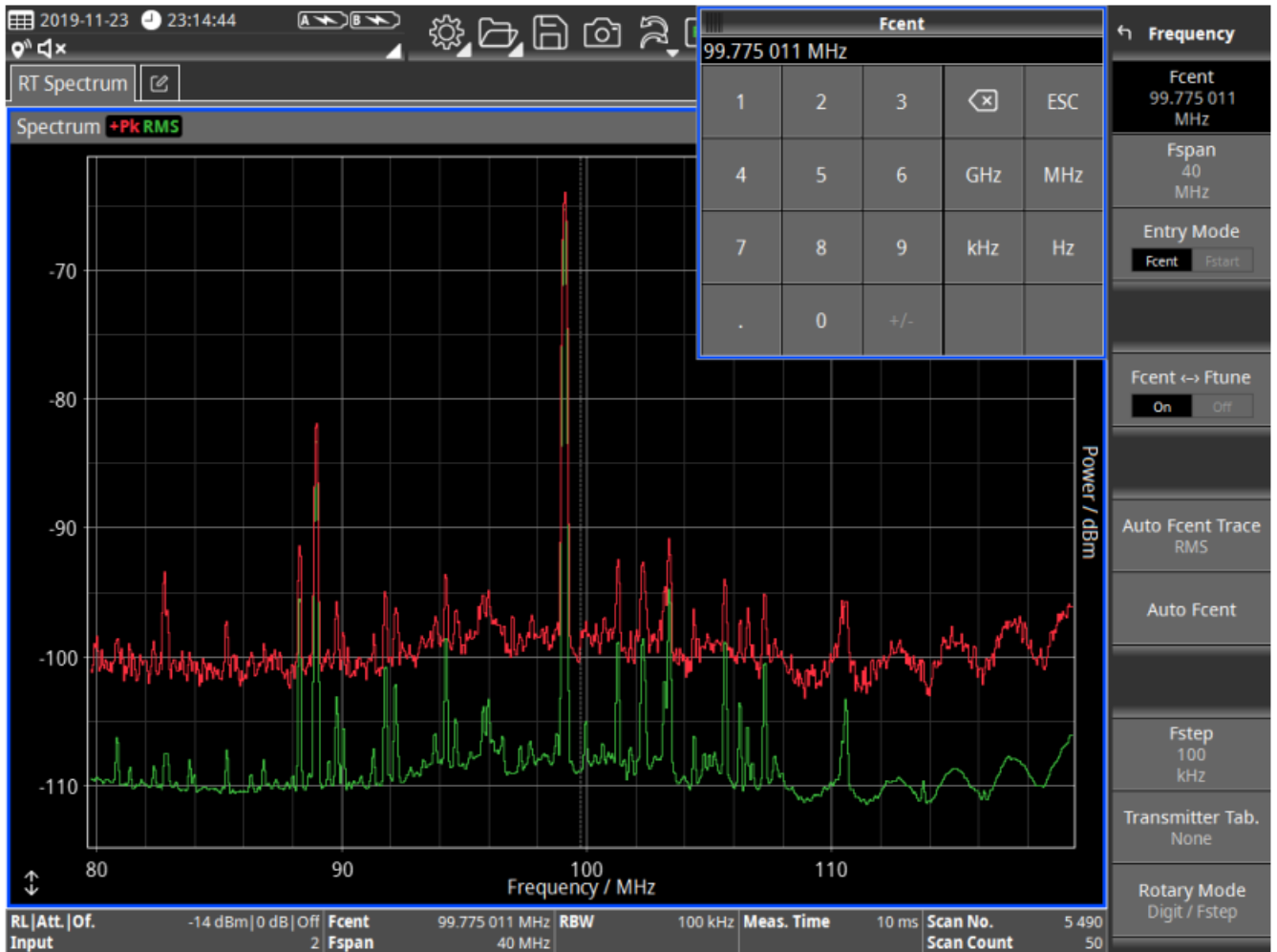


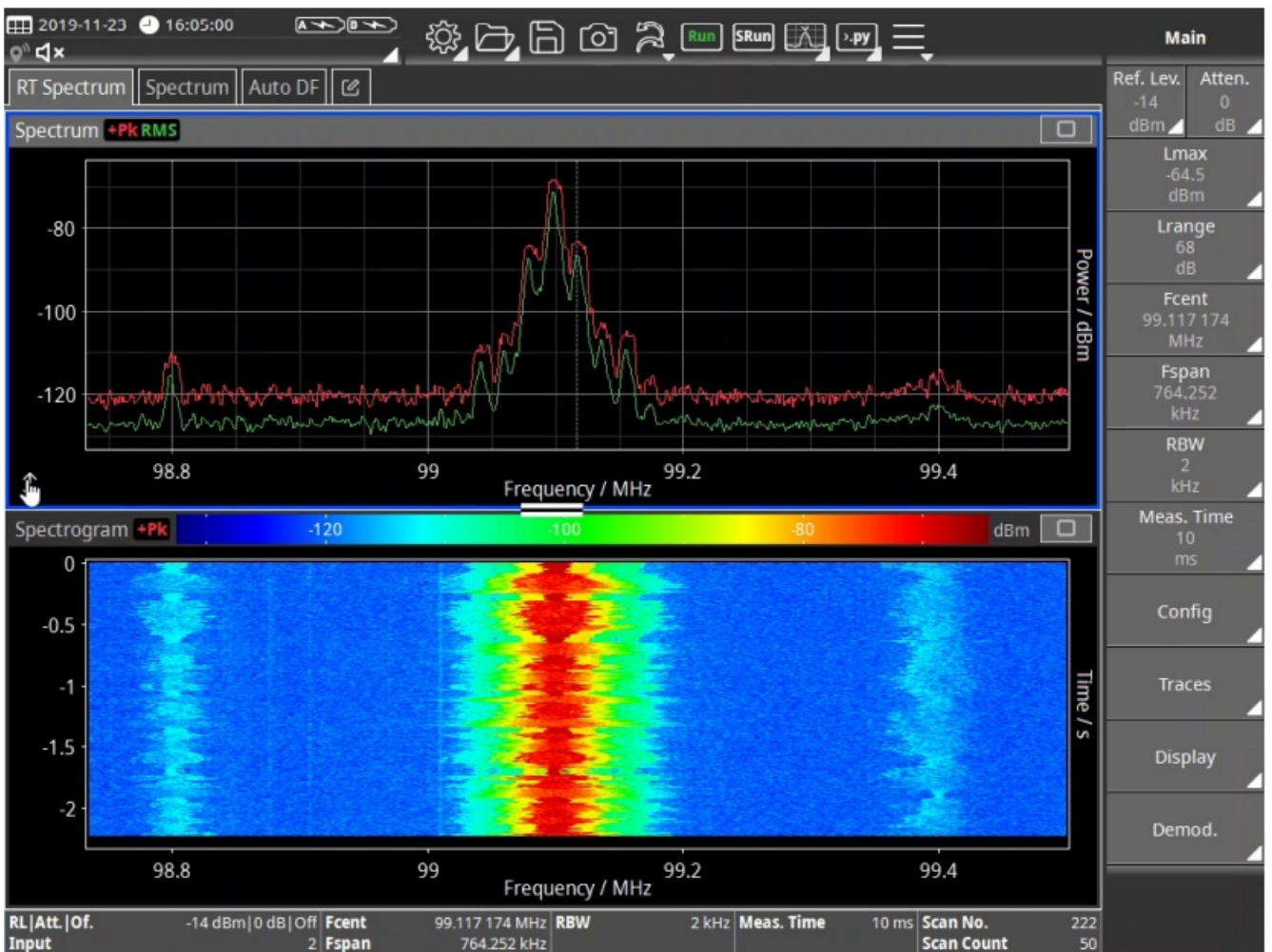
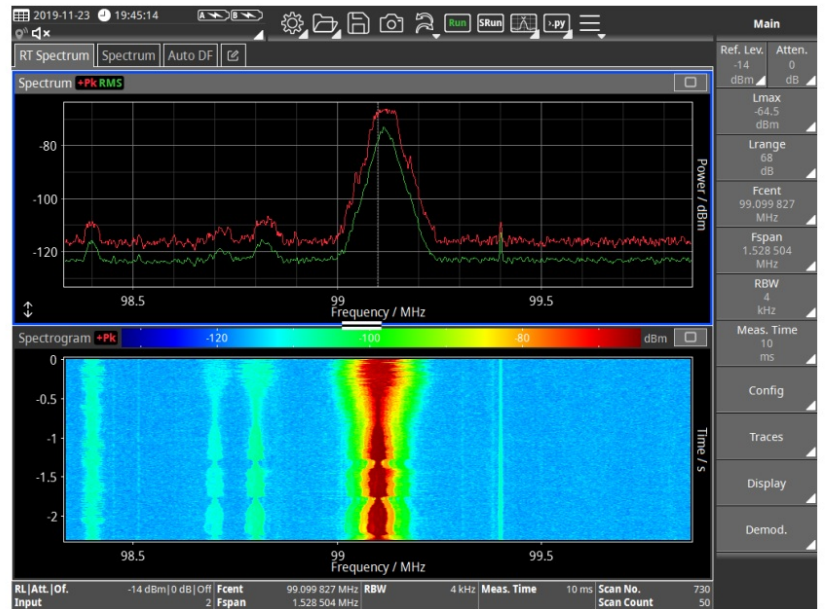
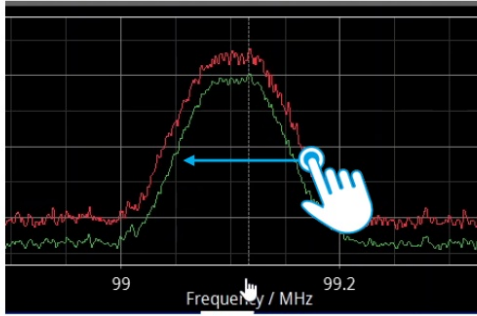


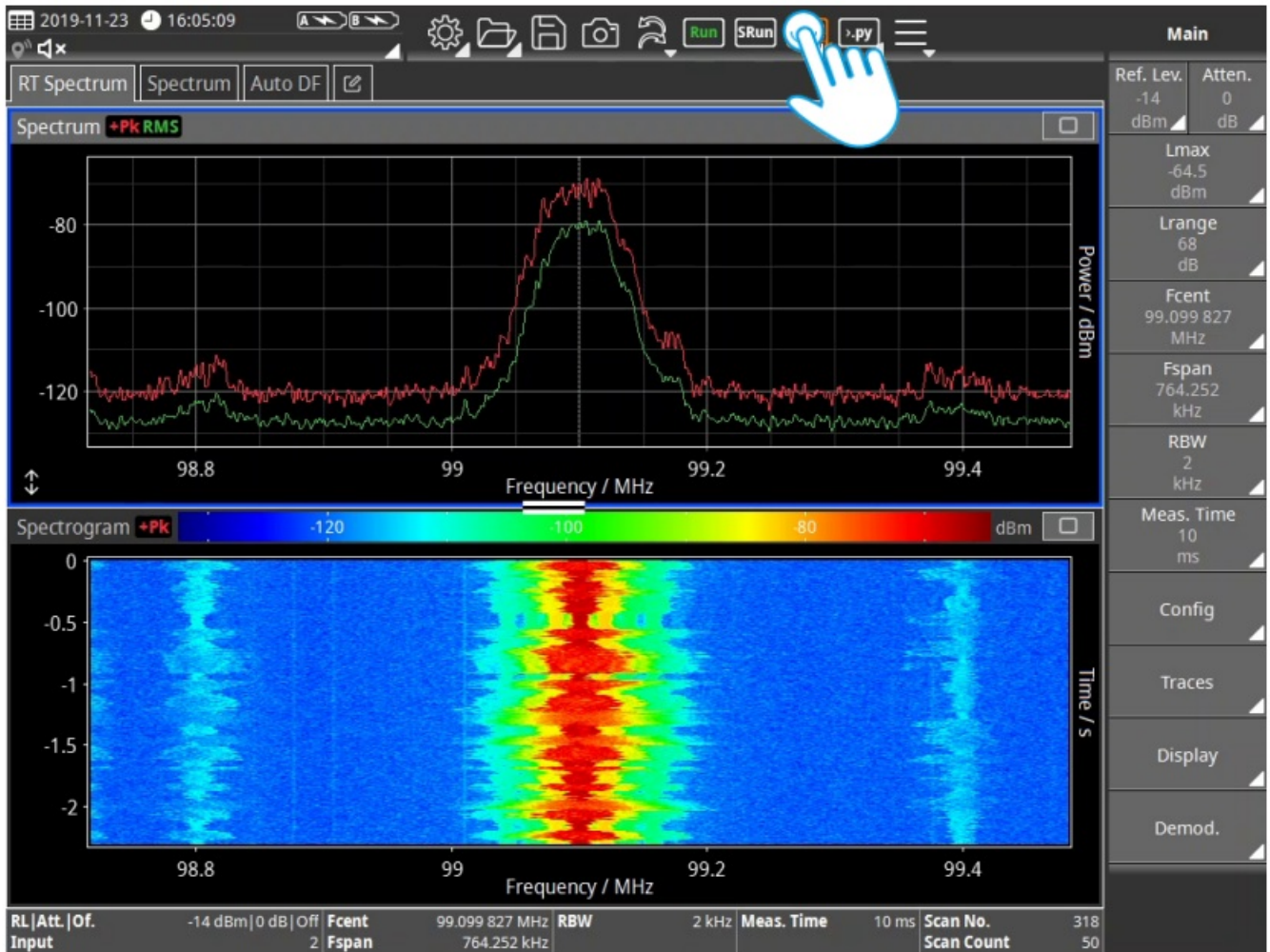
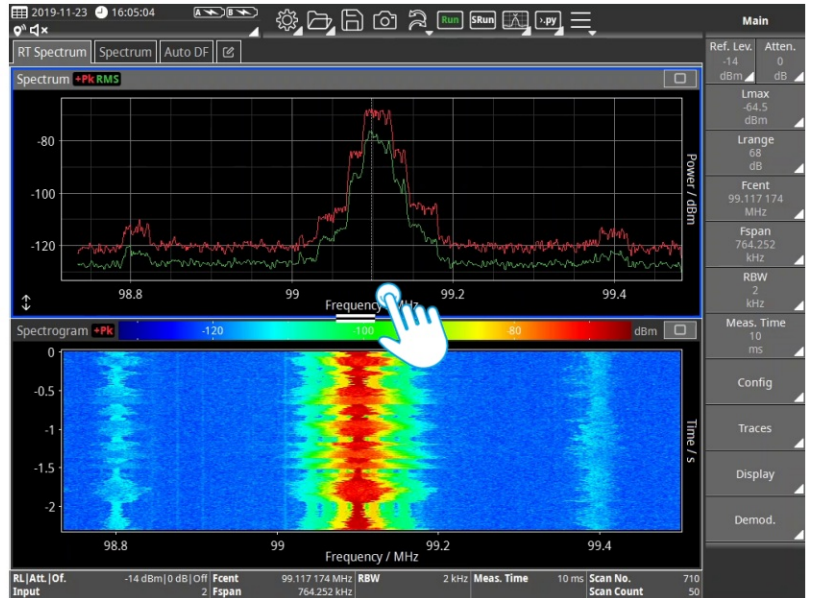
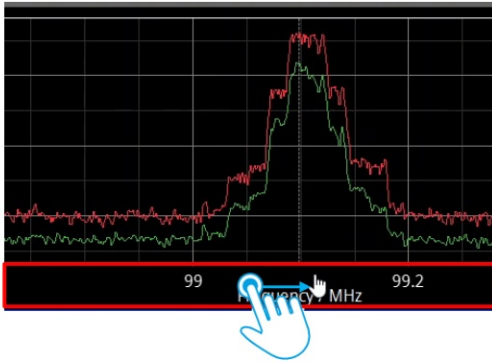


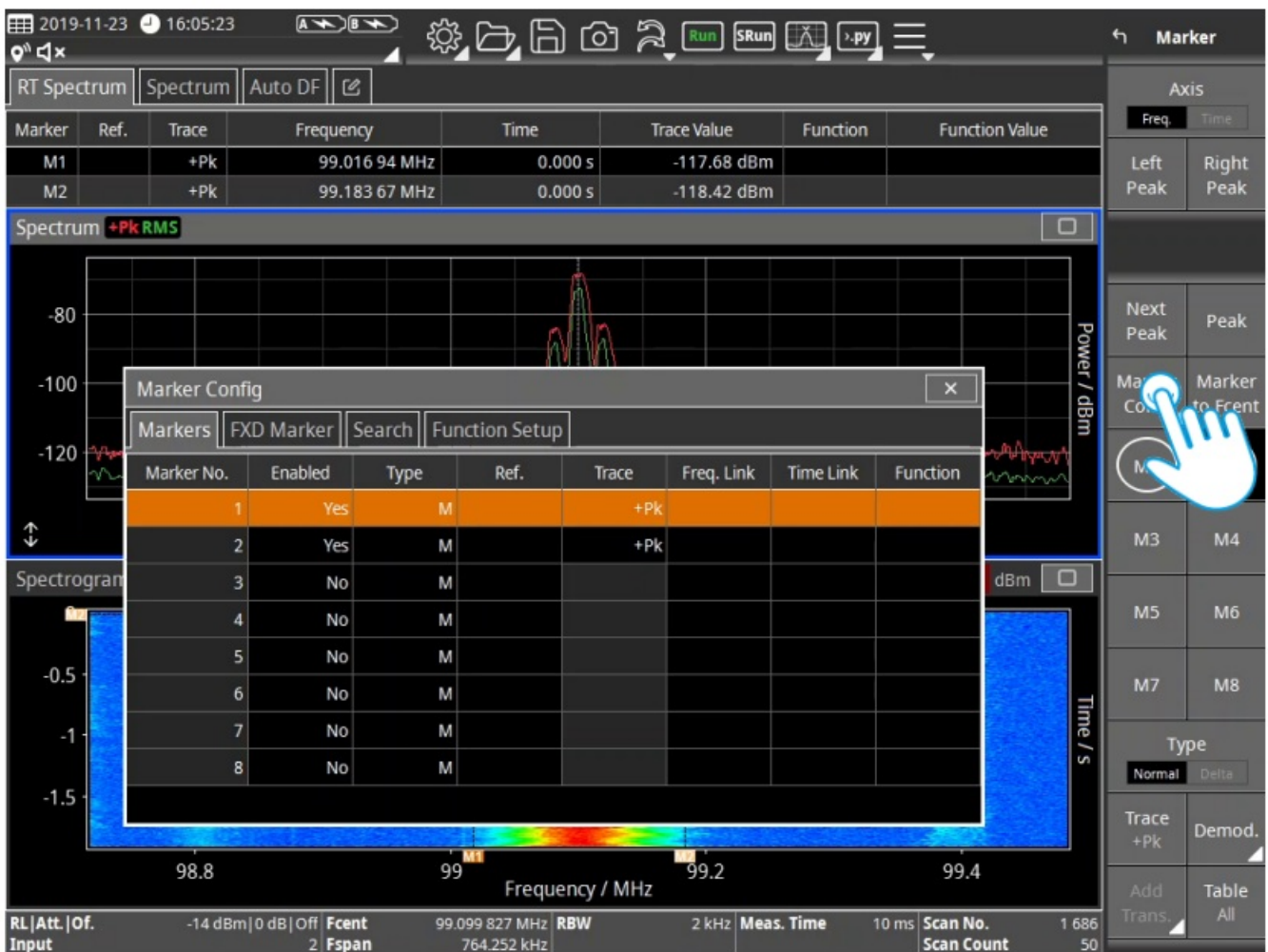
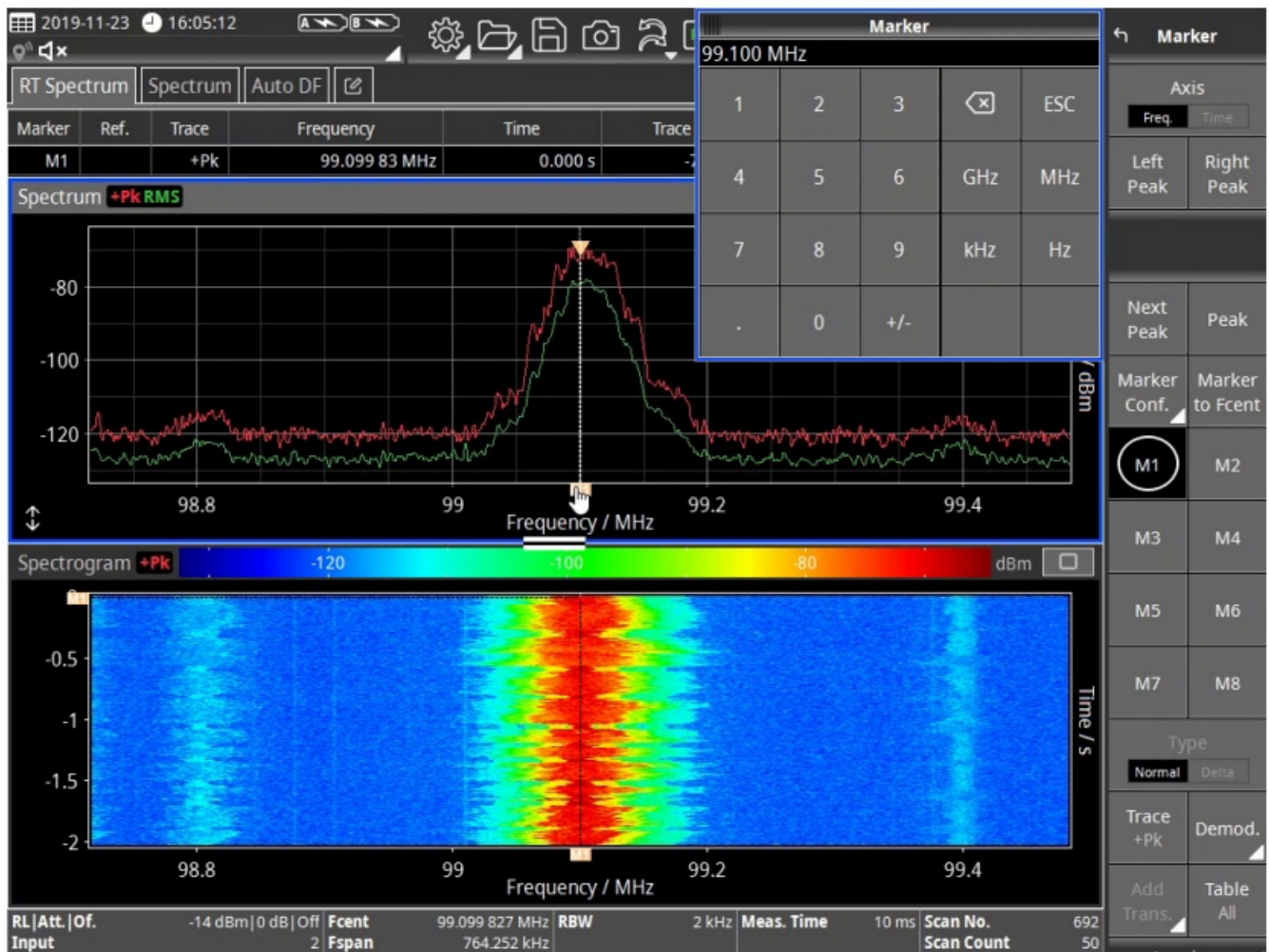


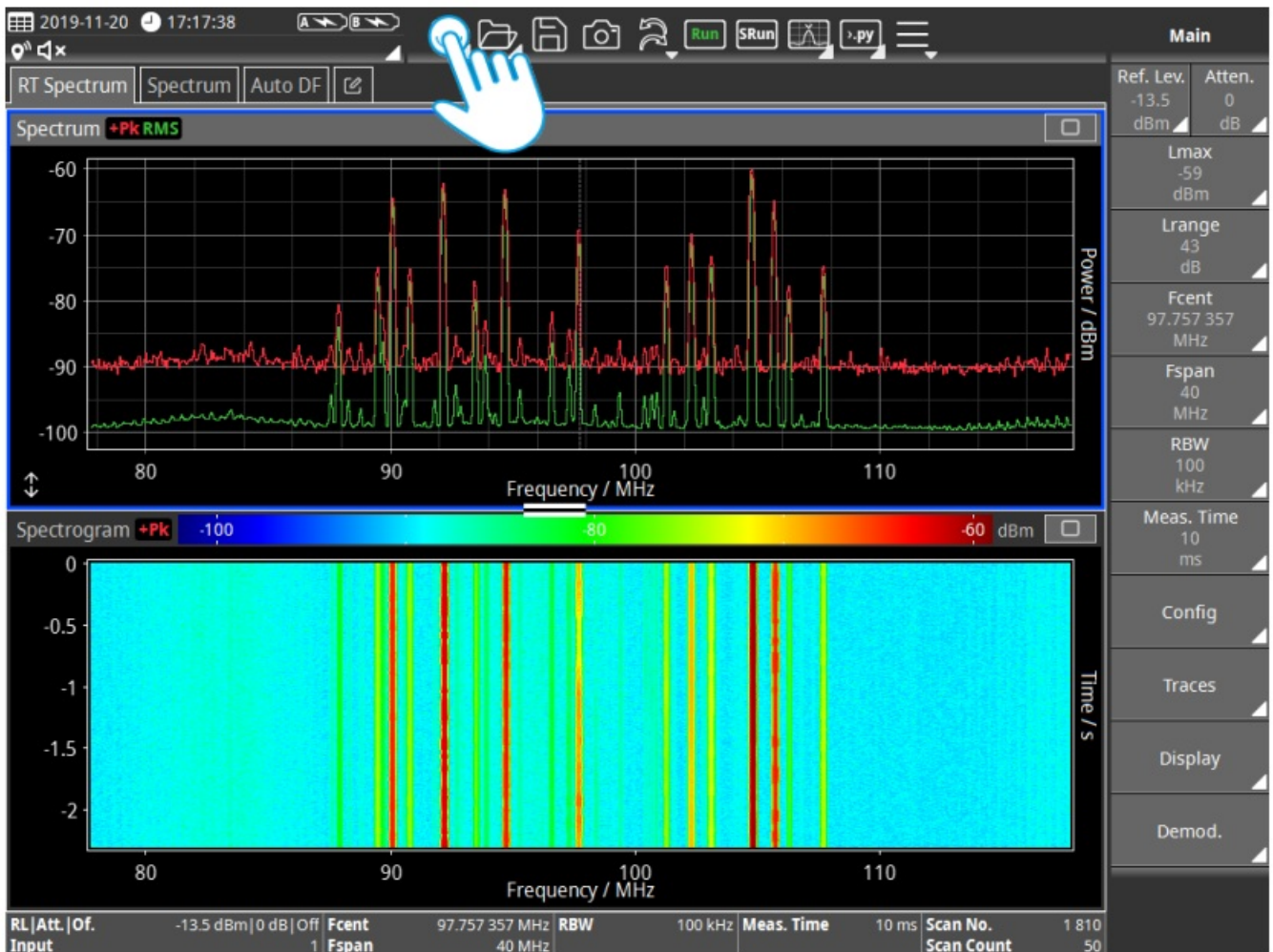
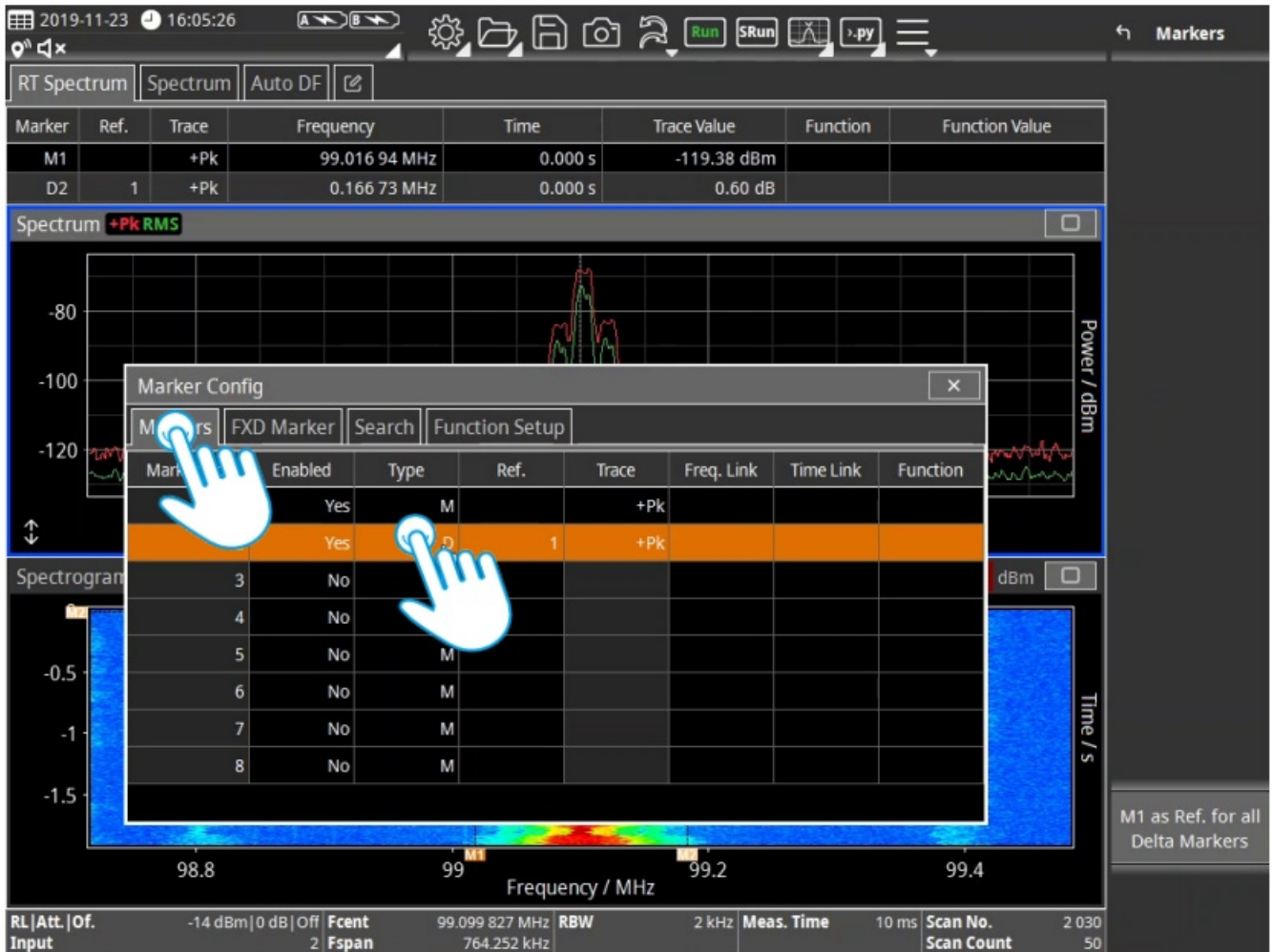












2019-11-23 22:50:52

Settings All Tasks Network Tx Tables Antennas Ext. Devices Cables

Parameter	
Keypad Illumination	On
Language	English
Date Format	yyyy-mm-dd
Date	2019-11-23
Time Format	24H
Time	22:50:52
Time Zone	(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
Use Dynamic Daylight Saving Time	On
GNSS Format	DegDec (-)ddd.ddddd
Unit of Length	Meter
Magnetic Declination	2.9°
Volume	60 %
Color Scheme	Night
Display Brightness	100 %
Switch Off Display	Never
GNSS Source	Auto
Antenna for internal GNSS	Auto
Dyn. Platform Model of internal GNSS	Stationary
Dyn. Platform Model of Antenna GNSS	Automotive
Reference Frequency Source	Internal
Timestamp Synchronization	Free Running
PPS Source	Active GNSS Source

Display Brightness

100 %

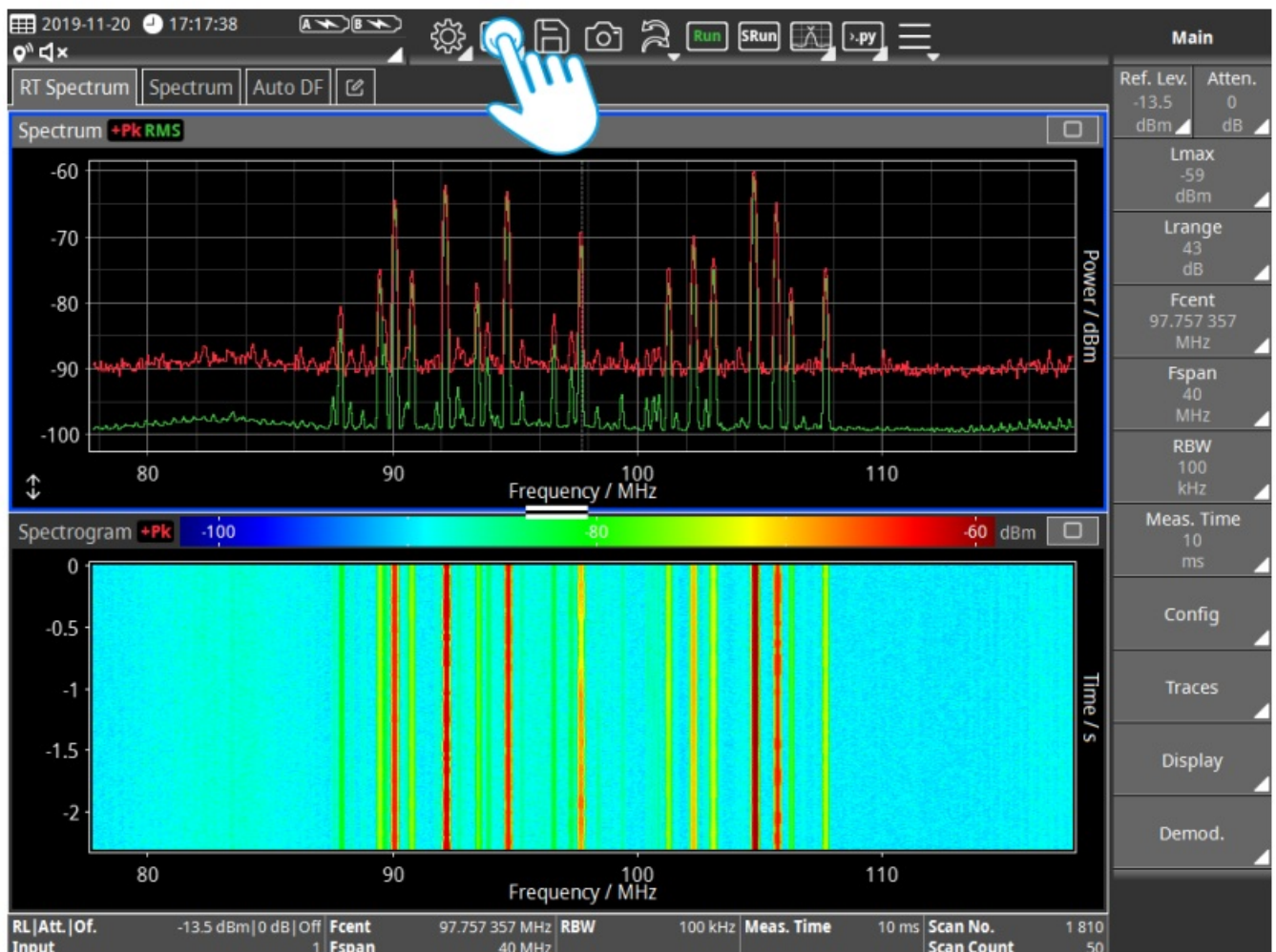
1	2	3	⌫	ESC
4	5	6	OK	
7	8	9		
.	0	+/-		

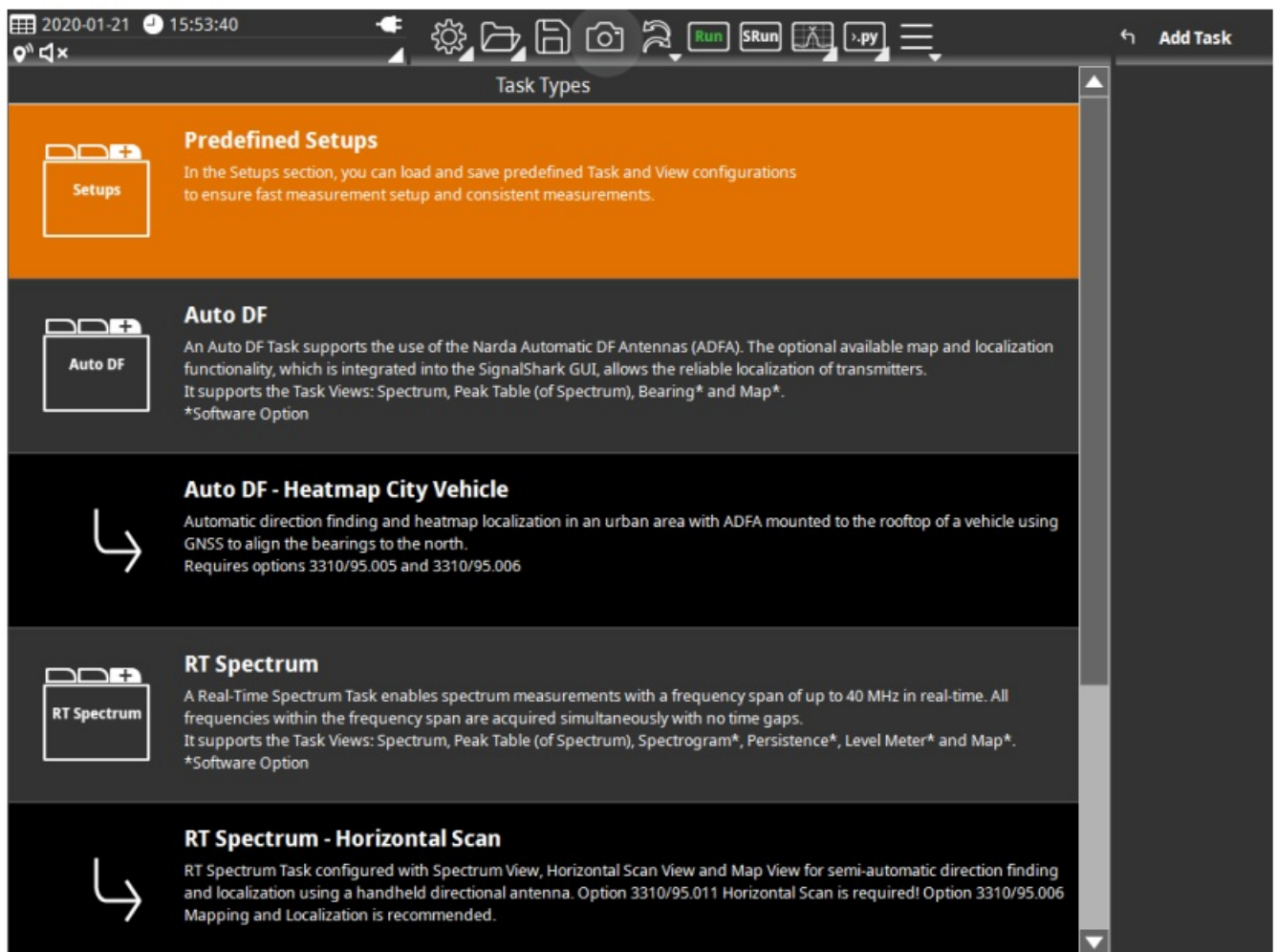
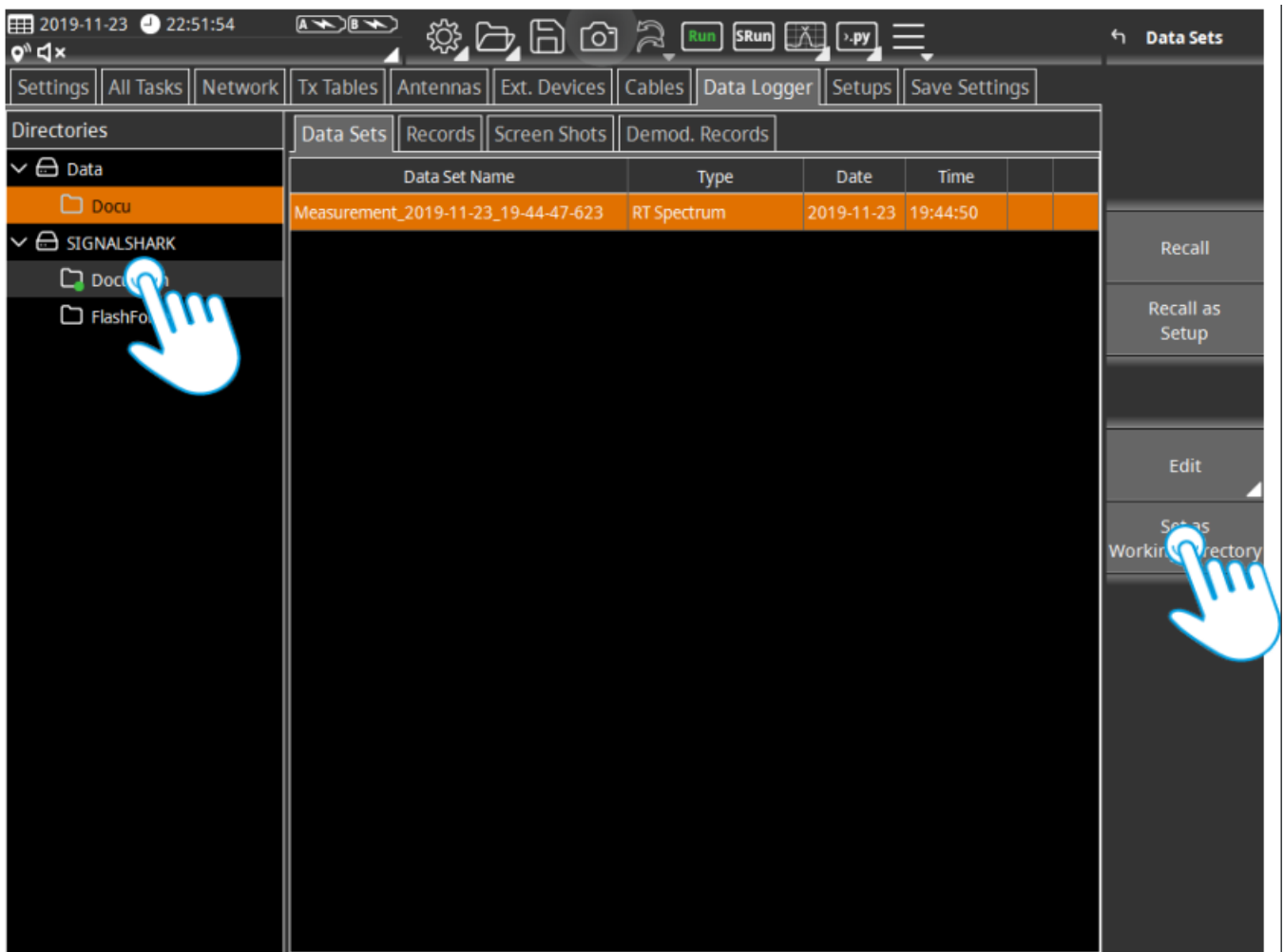
Settings

Adjust Equalizer

Synchronize Timestamps now

Synchronize System time





2020-01-21 15:55:55

Settings

All Tasks

Network

Tx Tables

Antennas

Ext. Devices

Cables

Data Logger

Setups

Save Settings

Directories

Data

AutoDF

Static

Vehicle

Old

Setup Name	Type	Date	Time
GSM-DLnk	Setup File	2019-12-09	09:05:29
LTE-DLnk	Setup File	2019-12-09	08:51:38
PMR433	Setup File	2019-12-09	08:45:18
UMTS-DLnk	Setup File	2019-12-09	08:47:48

Setups

Organize Setups

Save Current Setup

Recall and Replace

Recall and Add

Delete

Set User Default

Power on Setup Last

2020-01-21 16:08:44

RT Spectrum

Auto DF

ADF_V_GSM

Spectrum

Power / dBm

Frequency / MHz

Bearing

Ftune 925.993 827 MHz CBW 200 kHz

Azimuth Correction = 0.0°

Azimuth

Elevation

DF Quality

RMS

Map

Ftune 925.994 MHz

Lat 0.0

Lon 0.0

Ref. Lev.

Atten.

Lmax

Lrange

Ftune

CBW

Meas. Time

Config

Post Avg.

Display

RL|Att|Of.

-7.5 dBm|6 dB|Off

Ftune

925.993 827 MHz

Post Avg.

Off

Meas. Time

4.617 ms

Scan No.

90

Input

1

CBW

200 kHz

Cycle Time

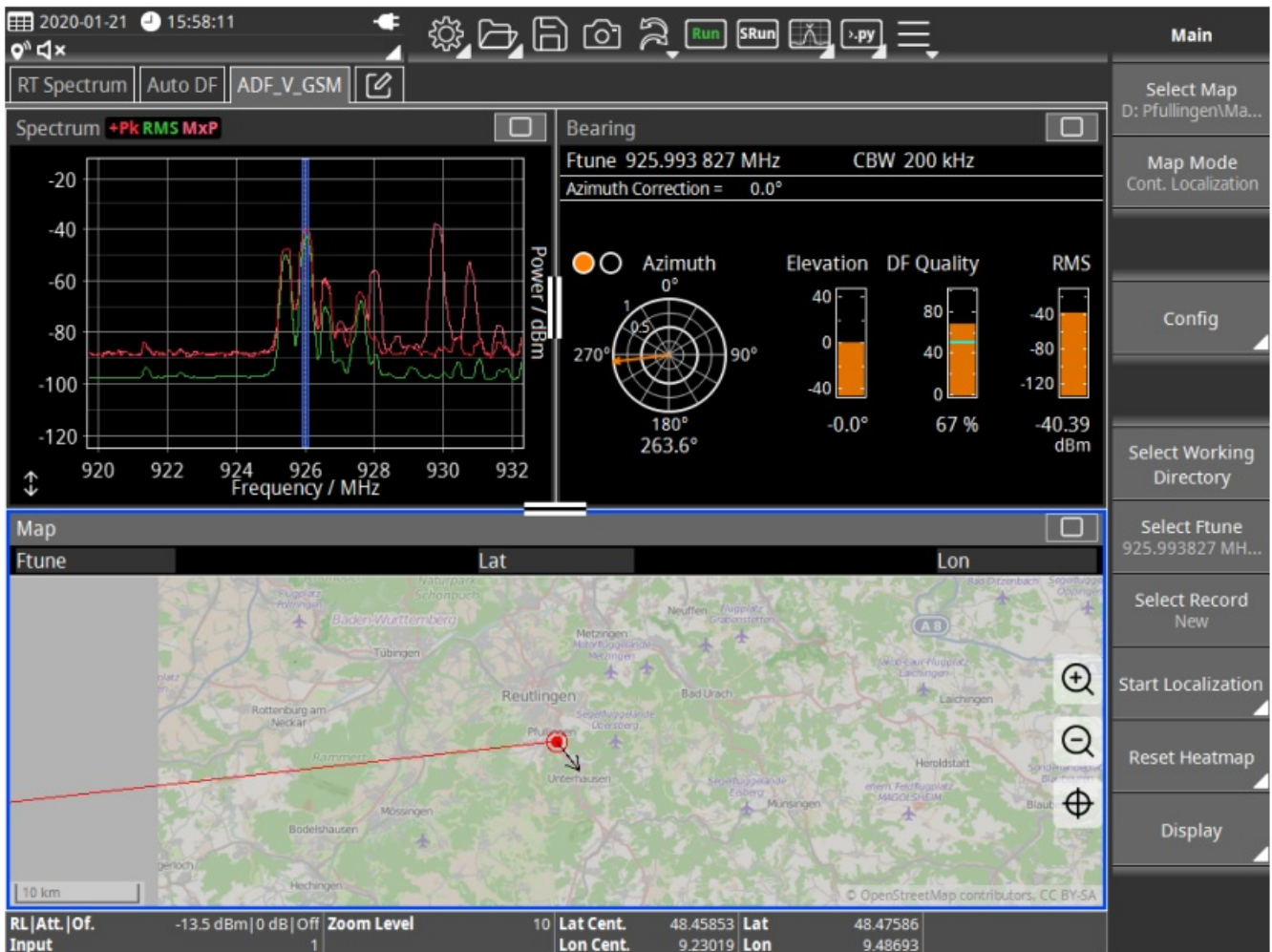
177.3 ms

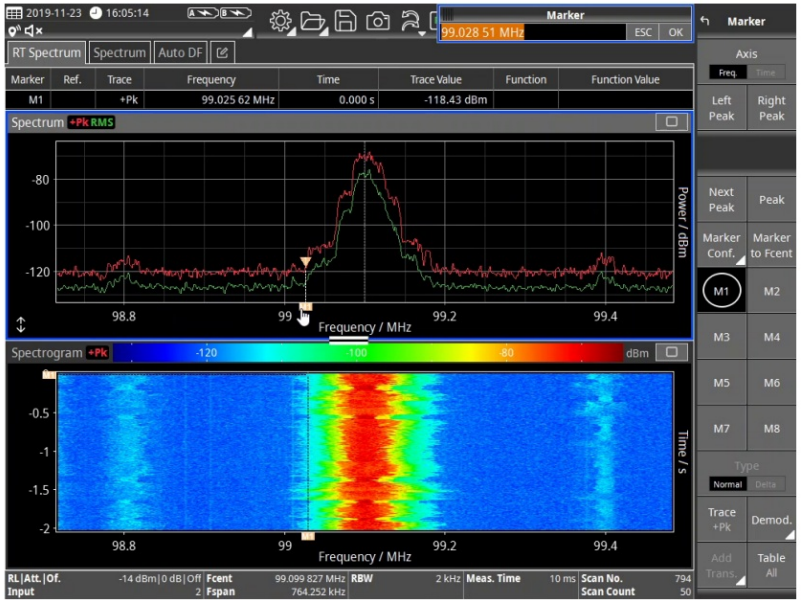
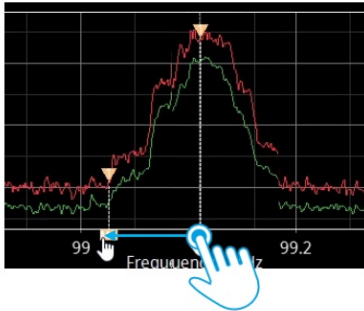
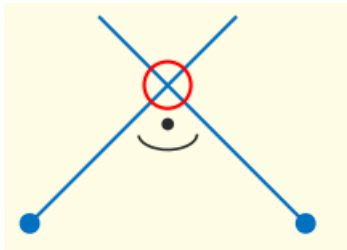
Scan Time

177.3 ms

Scan Count

50





Documents / Resources

	narda 3310 SignalShark Handheld Spectrum [pdf] Instruction Manual 3310 SignalShark Handheld Spectrum, 3310, SignalShark Handheld Spectrum, Handheld Spec trum, Spectrum
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References

-  [Narda Safety Test Solutions](#)

Manuals+.