MEFF M2-PRO
Professional Spectrum Analyzer
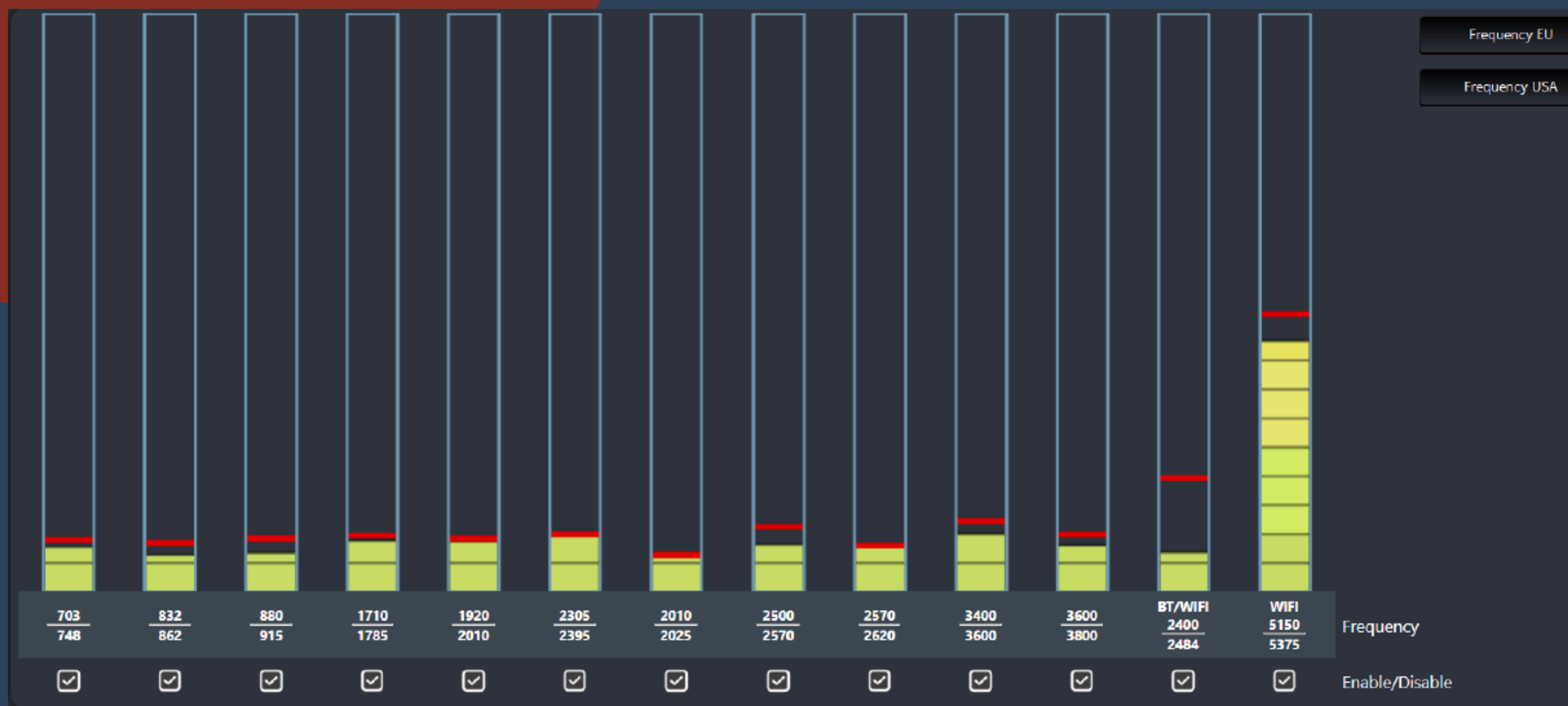
- Made in the EU

- 100Hz to 24Ghz detection

- High quality build
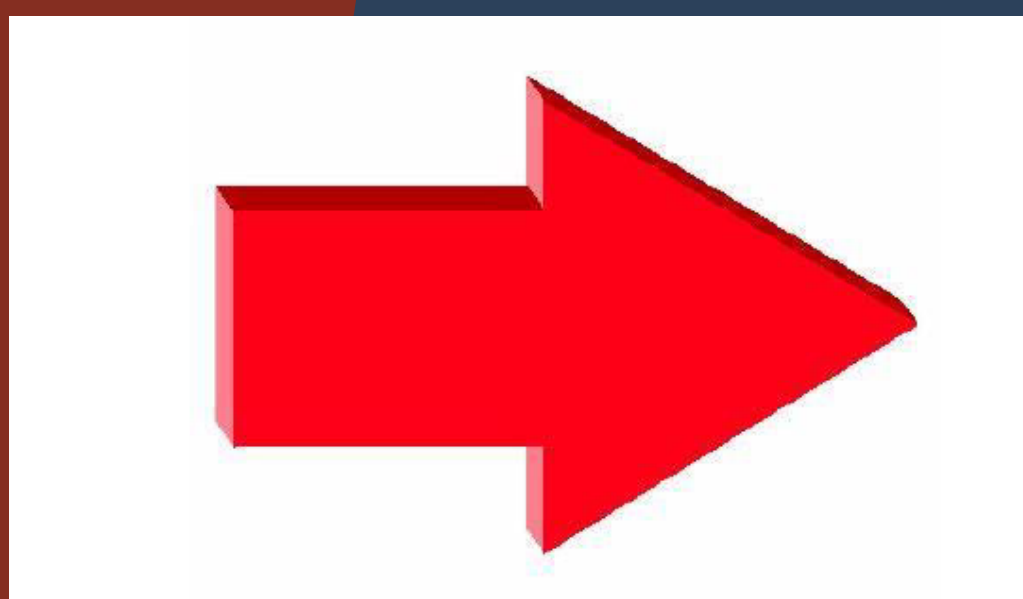
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Full Band Function with Pre-Set Frequency Division

Full Band	GSM	GSM
Frequencies EU	2G	2G
Frequencies US	3G	3G
Carrier Current	4G LTE	4G LTE
Low Voltage	5G	5G
IR/Laser	DECT	DECT
Car GPS	ISM	ISM
Jammer Detector	WiFi/BT 2.4	WiFi/BT 2.4
6.2GHz/24GHz	WiFi/BT 5	WiFi/BT 5
Wireless Camera 2.4		
Wireless Camera 5.8		

Frequency	Sweep Time	
Span	Detection Mode	
Amplitude	Marker	Occupied Bandwidth
RBW	△Marker	I&Q Sel
VBW	Channel Power	Clock Sel
Analog Demod	Digital Demod	Phase Demod
Demod setup		

7	8	9	GHz dBm s
4	5	6	MHz dBmV ms
1	2	3	KHz dBuV us
0	,	-	Hz
Esc	Back Space	Enter	

↑
← →
↓

Digital Band Function with the Option to Select EU and US Bands and Exclude Individual Bands

| Frequency EU |
| Frequency USA |

Frequency
703 / 748
832 / 862
880 / 915
1710 / 1785
1920 / 2010
2305 / 2395
2010 / 2025
2500 / 2570
2570 / 2620
3400 / 3600
3600 / 3800
BT/WIFI 2400 / 2484
WIFI 5150 / 5375

Enable/Disable

Directional Function for Interactive Signal Direction Location

Room Comparison Function for Scanning Multiple Rooms and Analyzing Frequency Changes Over Time

Ref -30 [dBm]

05/11/2024 01:53   16%

OBW: 1,072GHz

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WiFi and Bluetooth Capability to Identify Individual Devices with Detailed Information on Power, MAC Address, Manufacturer, and Location Tracking Using the Directional Function
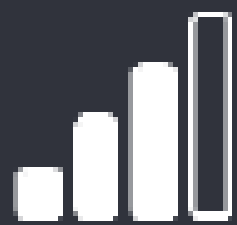
SSID: **HONOR X8b**
BSSID: **76:5A:6D:32:0C:C7**
Manufacturer:
Signal: **-57**
Band: **2.4 GHz**
Authentication: **WPA2-PSK**
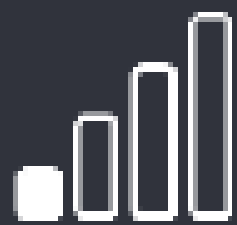
SSID: **TP-Link_Extender**
BSSID: **9C:A2:F4:CB:31:38**
Manufacturer: **TP-Link Corporation Limited**
Signal: **-80**
Band: **2.4 GHz**
Authentication: **None**

Name: **TIM_BOX**
Mac address: **F8:3B:1D:11:92:74**
Manufacturer: **Vantiva USA LLC**
Device: **AudioVideoSetTopBox (AudioVideoUnclassified)**
Authenticated: **False**
Connected: **False**

Alarm Function to Receive Detection Alerts and Automatically Record Them in the Logs

Ref -30 [dBm]

Set the alarm range (dBm):

Minimum   -65,00

Maximum   -40,00

OK   Cancel

Ref -30 [dBm]

Alarm! [9 signals at 01:32, with a max of -25,10dBm] at 403,75MHz
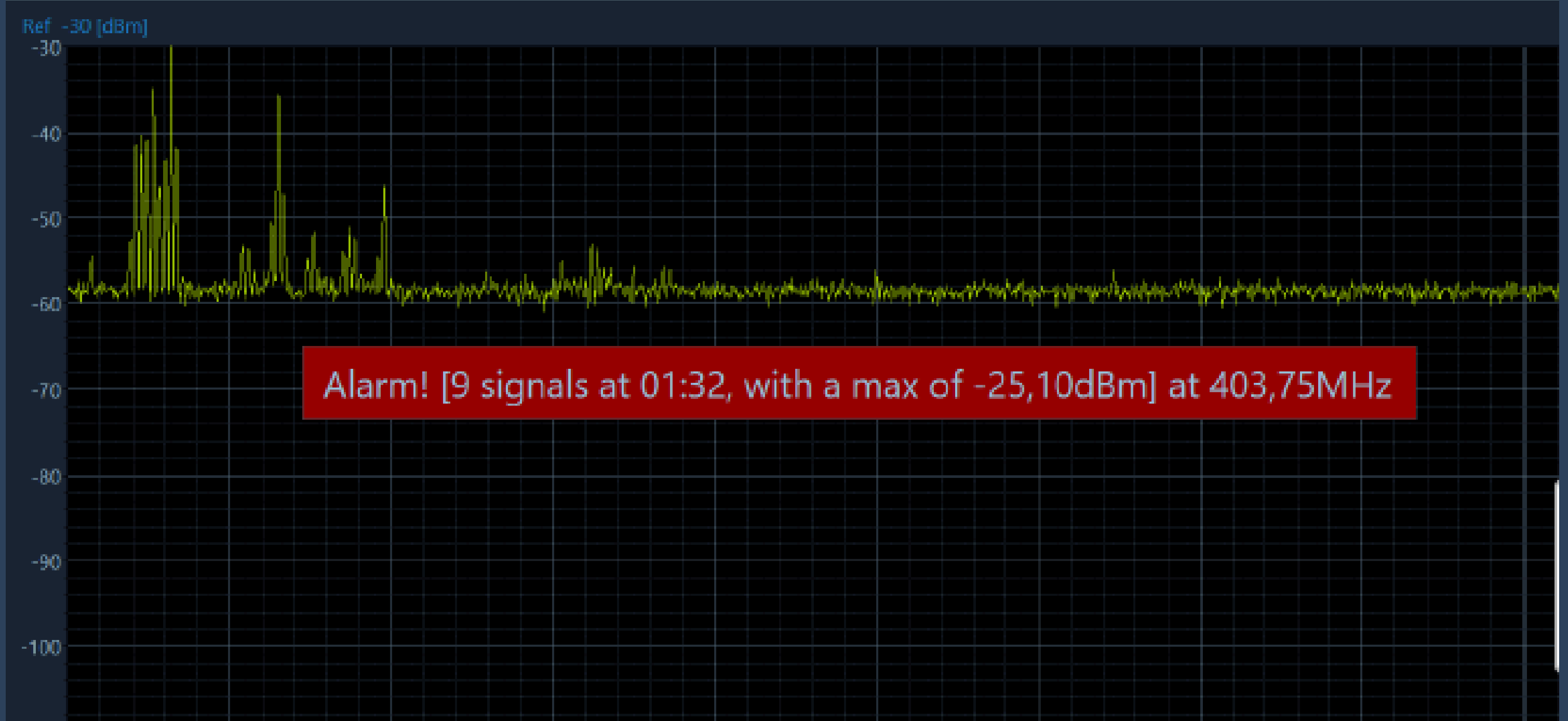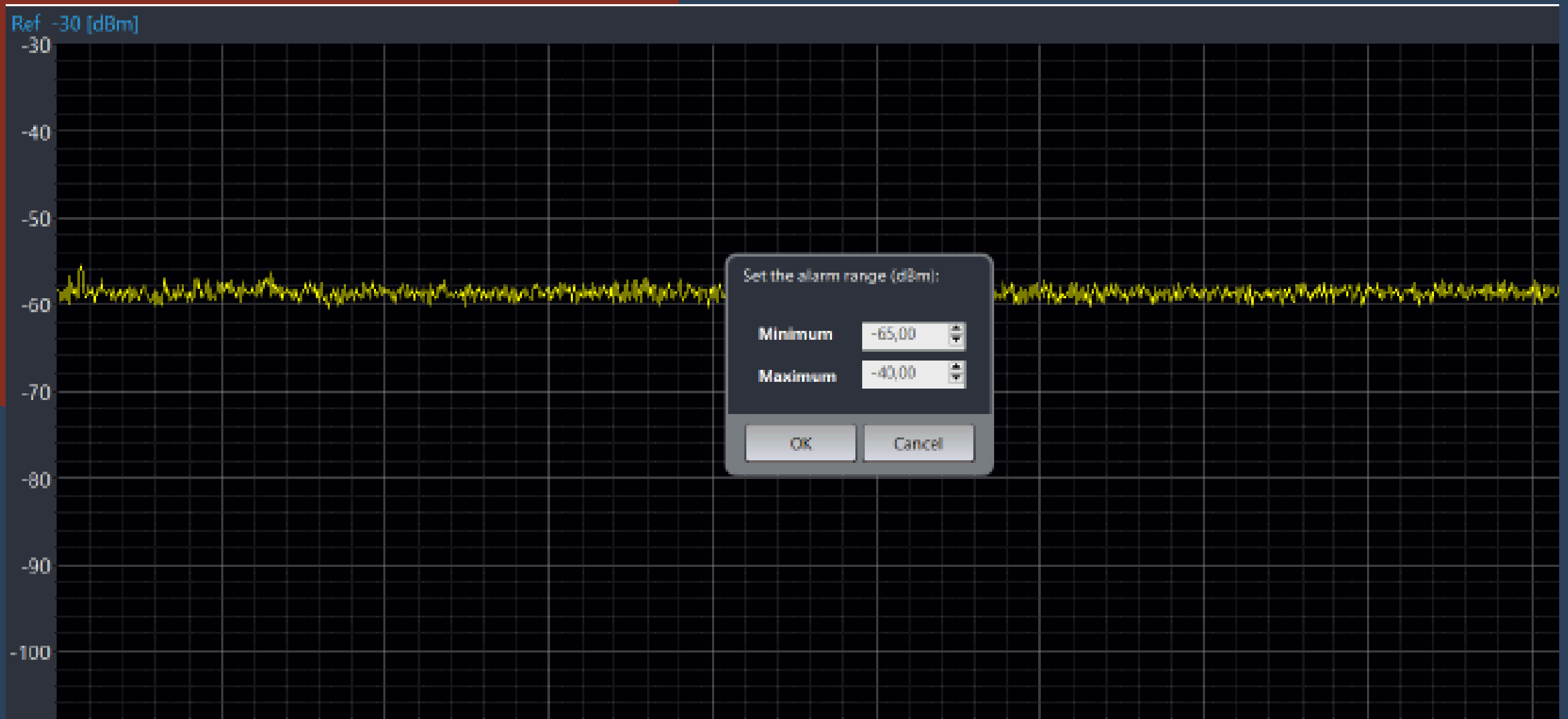
Report Feature to View and Download a Detailed Survey Summary

Software Interface

	Date and time	Min threshold (dBm)	Max threshold (dBm)	Value (dBm)	Frequency
⚠	05/11/2024 01:32:20	-50	-40	-45,05	5180.66MHz
⚠	05/11/2024 01:32:21	-5		-48,75	5168.67MHz
⚠	05/11/2024 01:32:22	-5		-49,24	5168.67MHz
⚠	05/11/2024 01:32:23	-5		-48,74	5168.67MHz
⚠	05/11/2024 01:32:24	-5		-48,57	5168.67MHz
⚠	05/11/2024 01:32:26	-5		-48,24	5168.67MHz
⚠	05/11/2024 01:32:27	-5		-49,05	5172.66MHz
⚠	05/11/2024 01:32:28	-5		-44,01	807,49MHz
⚠	05/11/2024 01:32:29	-5		-35,80	335,79MHz
⚠	05/11/2024 01:32:29	-5		-42,97	267,83MHz
⚠	05/11/2024 01:32:30	-5		-35,79	335,79MHz
⚠	05/11/2024 01:32:30	-5		-42,70	267,83MHz
⚠	05/11/2024 01:32:32	-5		-39,96	291,82MHz
⚠	05/11/2024 01:32:32	-50	-40	-41,96	267,83MHz
⚠	05/11/2024 01:32:33	-50	-40	-36,52	355,78MHz

Select filters

Filter by date ☐

Minimum date: 04/11/2024 01:25

Maximum date: 05/11/2024 01:33

⚠ Show Alarms ☑

⚠ Show Warnings ☑

The log shows only the last 1000 recent elements

Toolbar: Load log | Save log | Clear log | Filter | Export PDF

⫸|MEFF

M2-PRO Spectrum Analyzer

Log

Date and time	Min threshold (dBm)	Max threshold (dBm)	Value (dBm)	Frequency
05/11/2024, 01:32:29	-50	-40	-35.80	335.79MHz
05/11/2024, 01:32:29	-50	-40	-35.73	339.79MHz
05/11/2024, 01:32:29	-50	-40	-38.54	359.78MHz
05/11/2024, 01:32:29	-50	-40	-39.11	363.77MHz
05/11/2024, 01:32:29	-50	-40	-37.66	379.76MHz
05/11/2024, 01:32:29	-50	-40	-37.43	383.76MHz
05/11/2024, 01:32:29	-50	-40	-38.58	387.76MHz
05/11/2024, 01:32:29	-50	-40	-31.76	399.75MHz
05/11/2024, 01:32:29	-50	-40	-24.68	403.75MHz
05/11/2024, 01:32:29	-50	-40	-24.66	407.74MHz
05/11/2024, 01:32:29	-50	-40	-30.11	411.74MHz
05/11/2024, 01:32:29	-50	-40	-38.95	423.73MHz
05/11/2024, 01:32:29	-50	-40	-37.45	427.73MHz
05/11/2024, 01:32:29	-50	-40	-37.74	431.73MHz
05/11/2024, 01:32:29	-50	-40	-36.96	807.49MHz
05/11/2024, 01:32:29	-50	-40	-36.13	811.48MHz
05/11/2024, 01:32:29	-50	-40	-36.42	815.48MHz
05/11/2024, 01:32:30	-50	-40	-35.79	335.79MHz
05/11/2024, 01:32:30	-50	-40	-36.09	339.79MHz
05/11/2024, 01:32:30	-50	-40	-34.60	399.75MHz
05/11/2024, 01:32:30	-50	-40	-25.13	403.75MHz
05/11/2024, 01:32:30	-50	-40	-25.16	407.74MHz
05/11/2024, 01:32:30	-50	-40	-32.95	411.74MHz
05/11/2024, 01:32:30	-50	-40	-36.83	807.49MHz
05/11/2024, 01:32:30	-50	-40	-36.30	811.48MHz
05/11/2024, 01:32:30	-50	-40	-36.66	815.48MHz
05/11/2024, 01:32:32	-50	-40	-39.96	291.82MHz

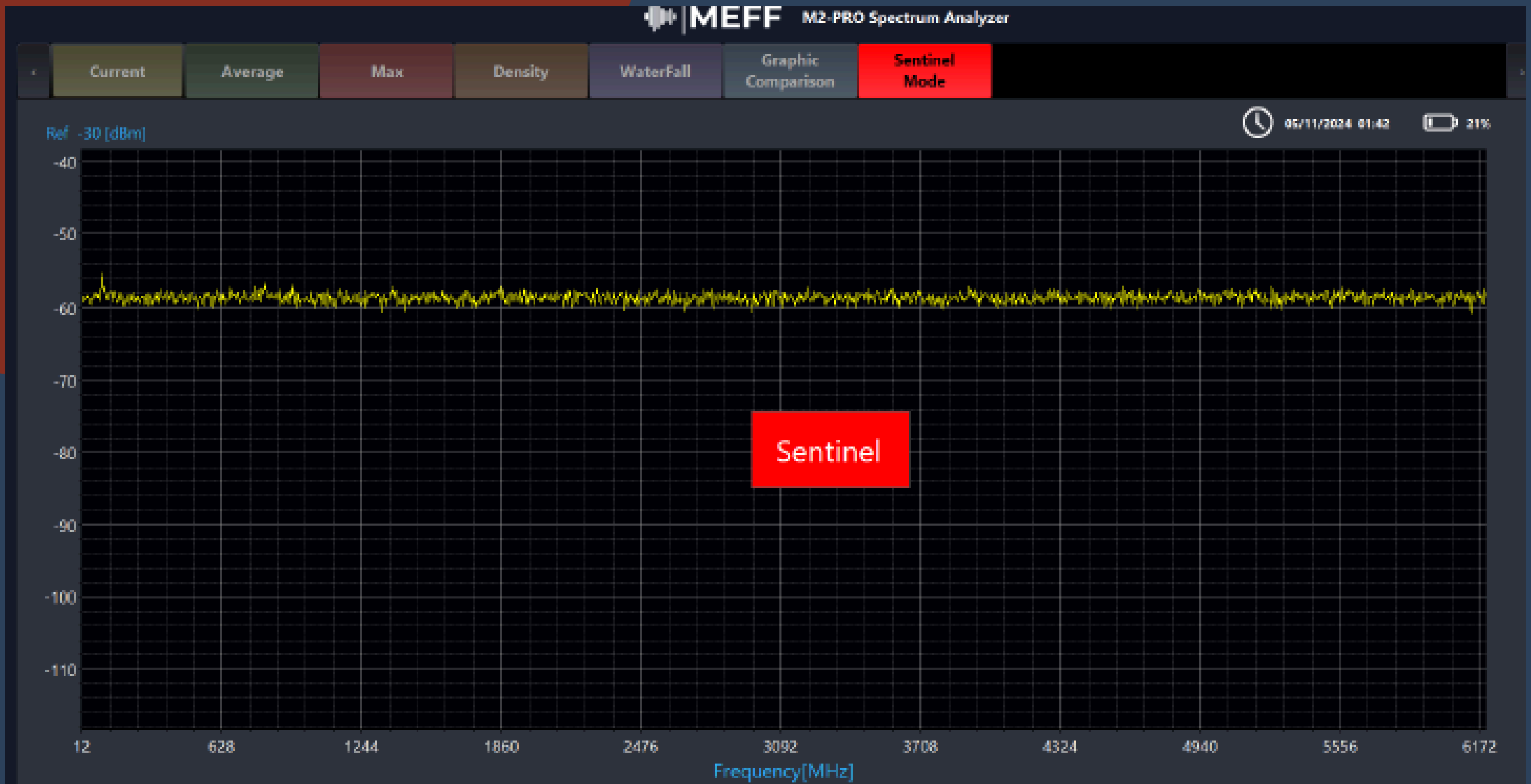# Measuring the Intensity of the Detected Signal
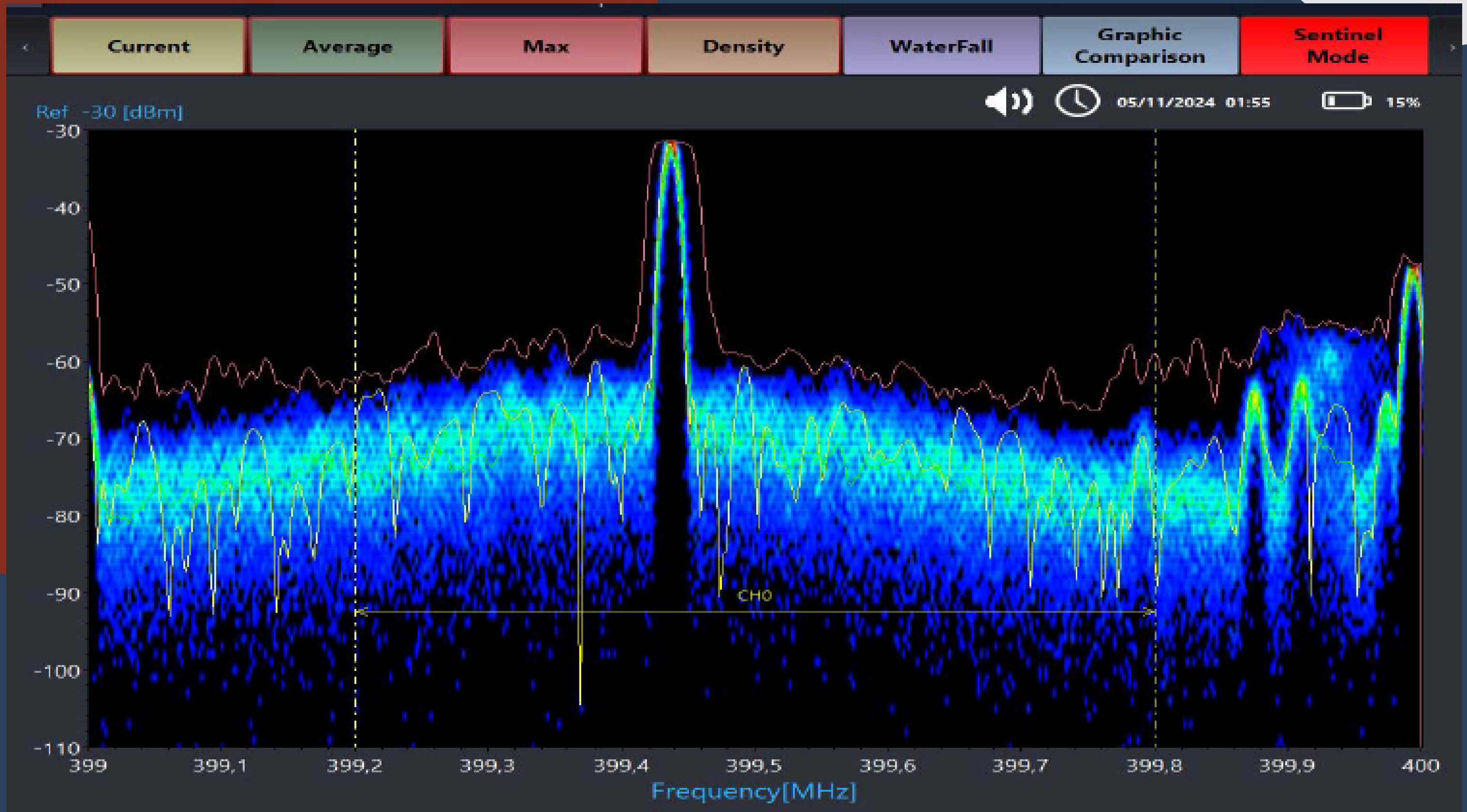
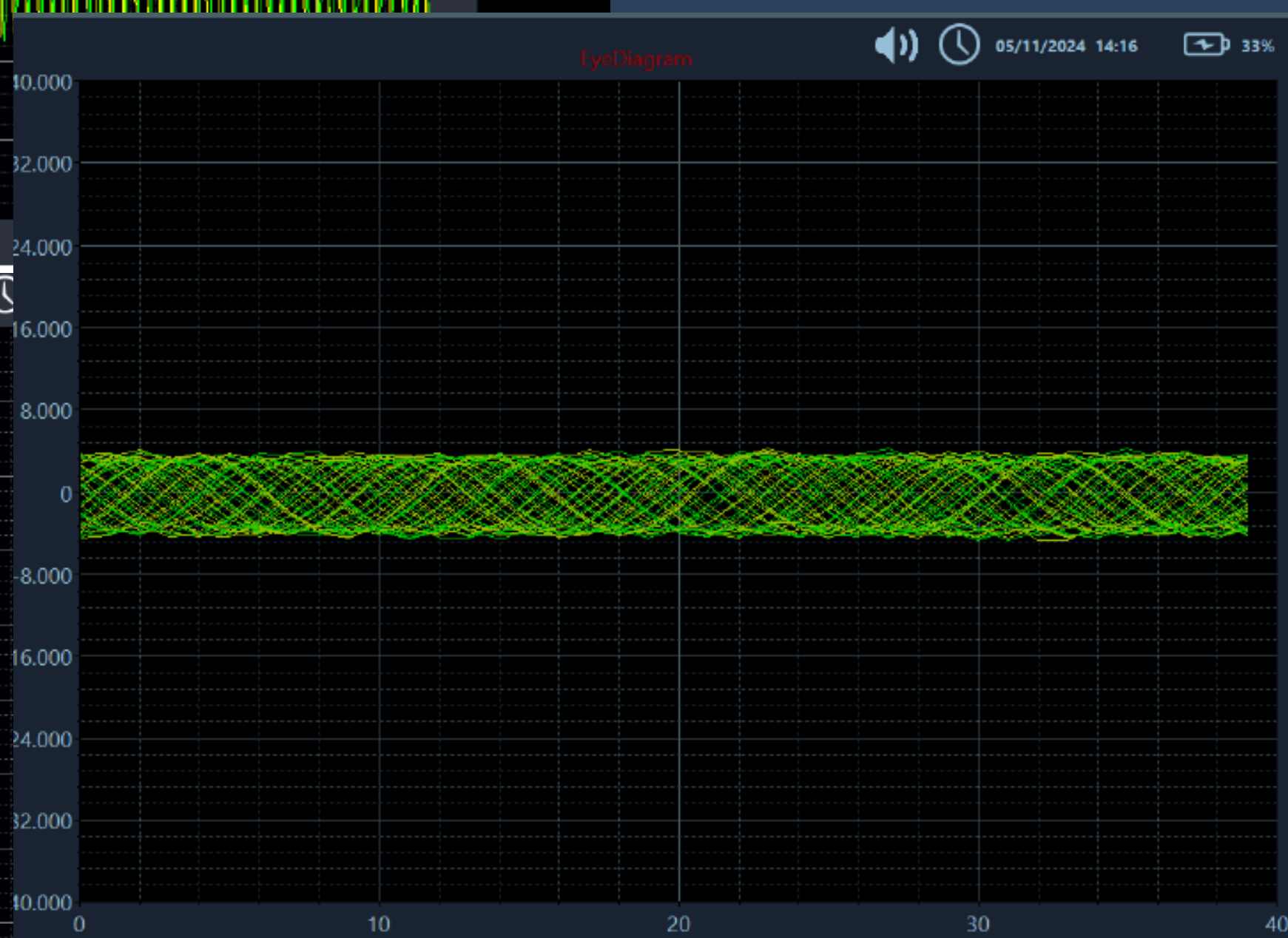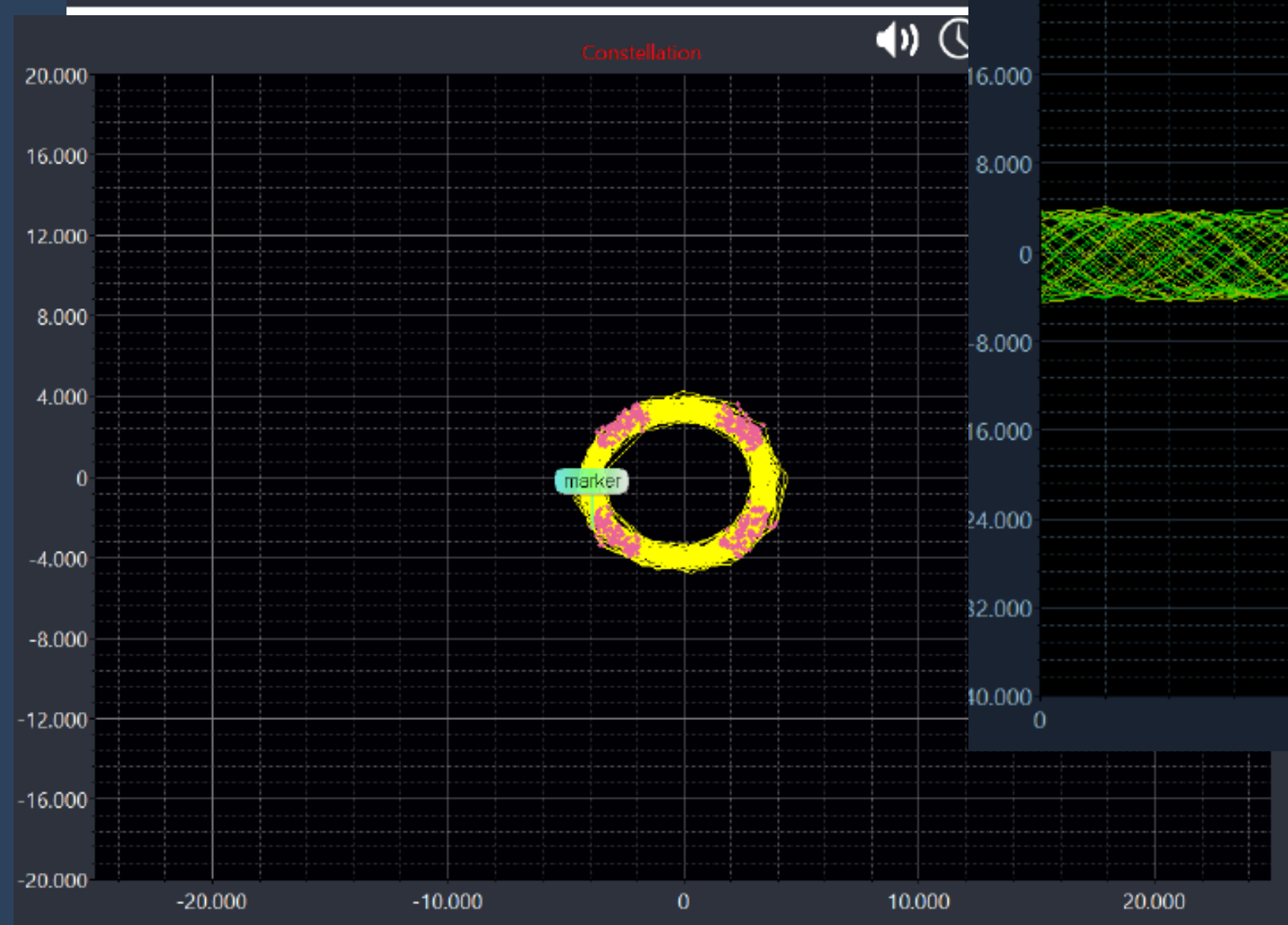# Graphs for Analog and Digital Signal Detection
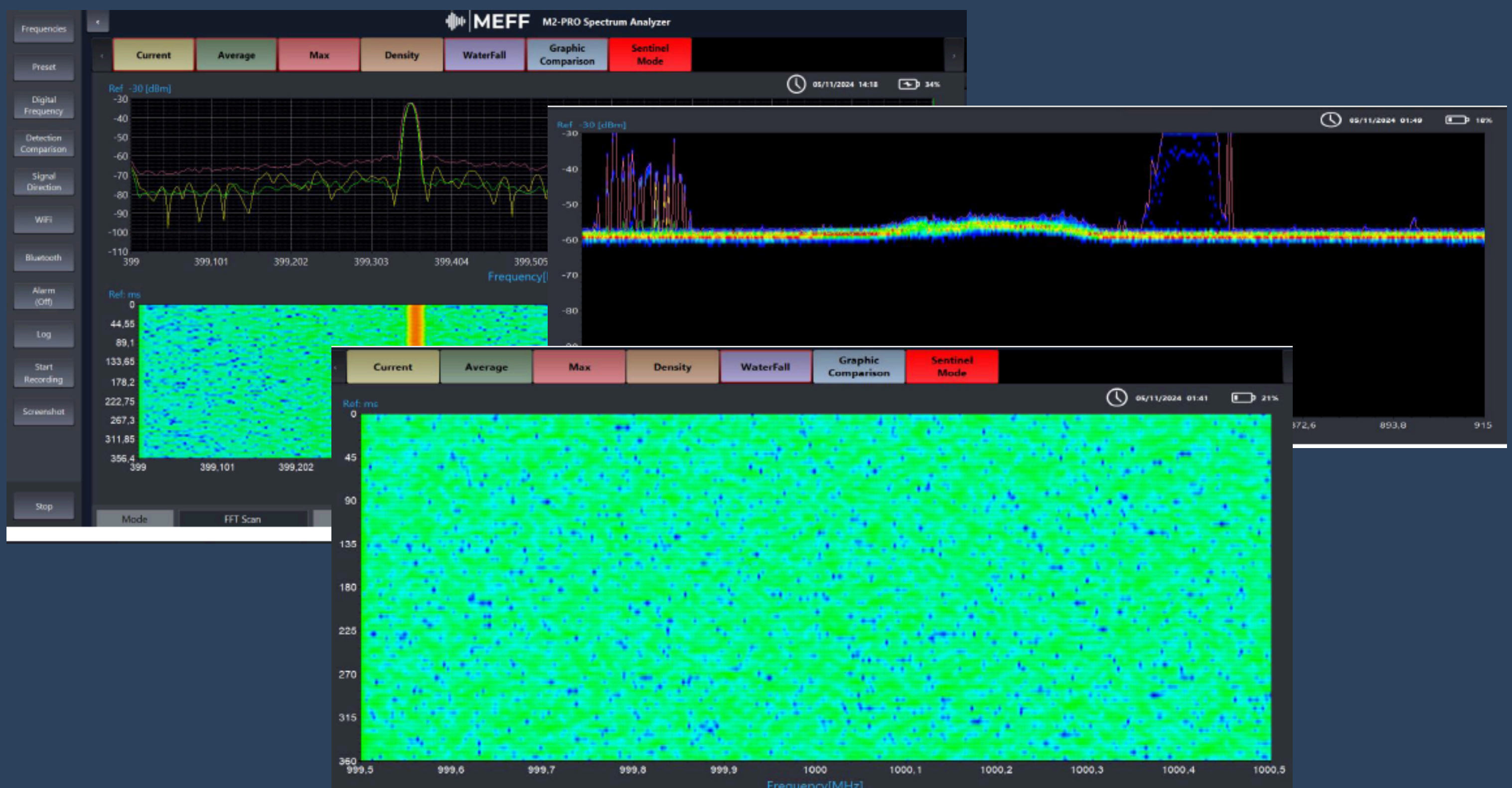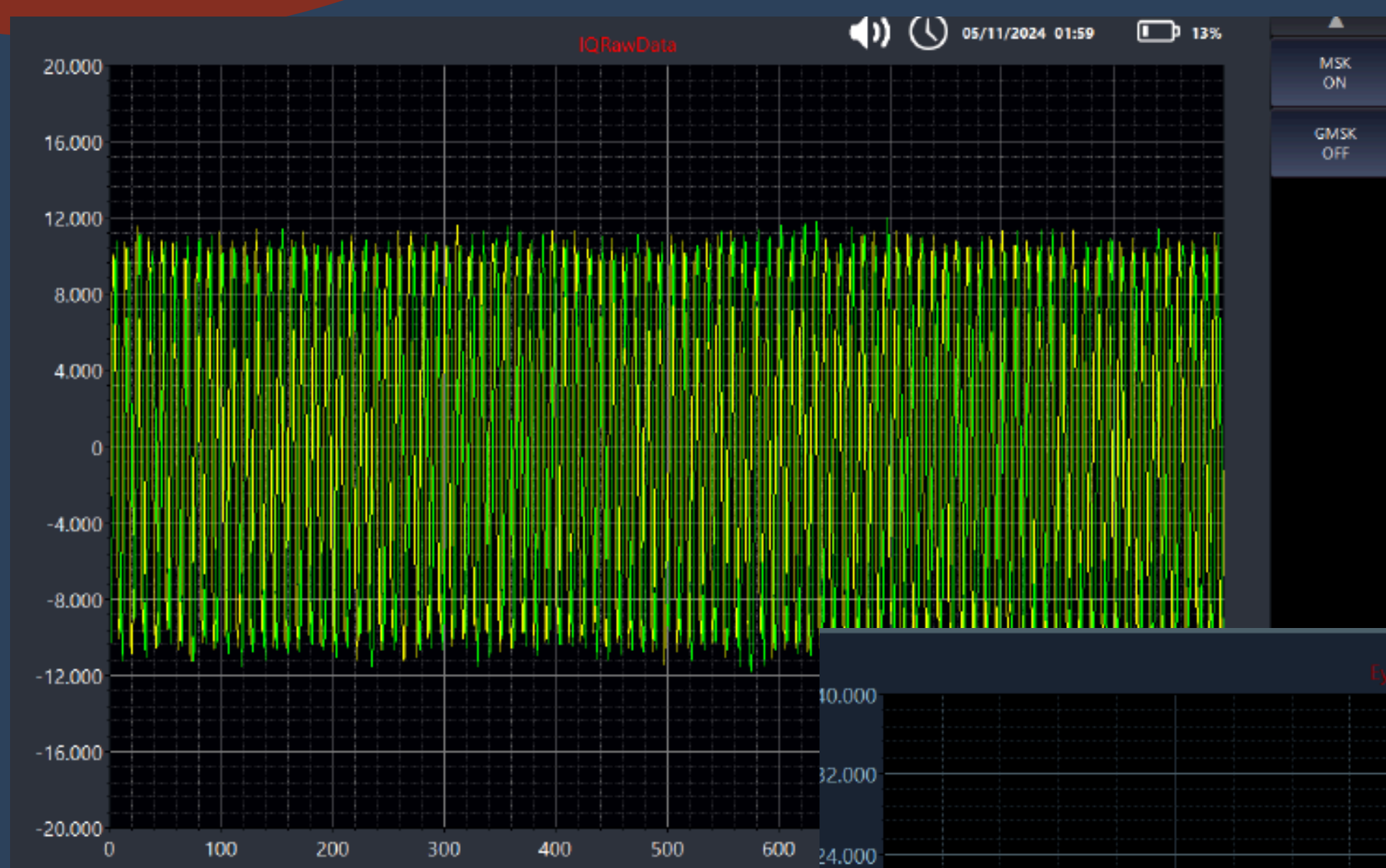
Sentinel Mode: Enables Automatic Monitoring with Access to a Detailed Technical Report at a Later Time
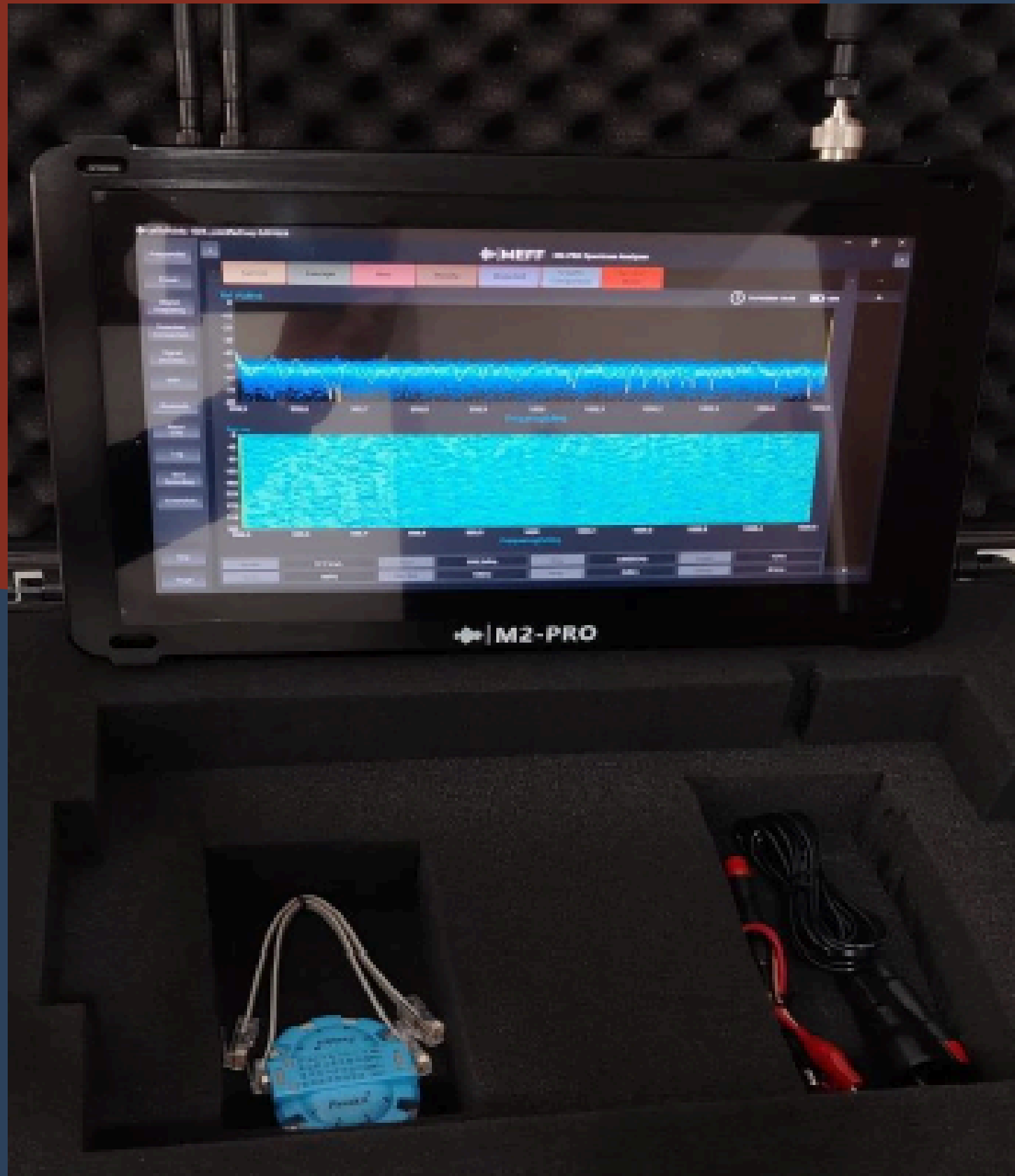

Current	Average	Max	Density	WaterFall	Graphic Comparison	Sentinel Mode	

M2-PRO Spectrum Analyzer

Ref -30 [dBm]   05/11/2024 01:42   21%

Sentinel

Frequency[MHz]

```
[2024-11-05 01:41:44.776] warning: -49,39dBm at 2430,44MHz
[2024-11-05 01:41:50.878] alarm: -36,14dBm at 2454,42MHz
[2024-11-05 01:41:52.912] warning: -47,94dBm at 5180,66MHz
[2024-11-05 01:41:55.963] warning: -48,33dBm at 5180,66MHz
[2024-11-05 01:41:55.963] warning: -49,75dBm at 5184,66MHz
[2024-11-05 01:41:56.98] warning: -47,34dBm at 5180,66MHz
[2024-11-05 01:41:56.98] warning: -48,80dBm at 5184,66MHz
[2024-11-05 01:41:59.015] alarm: -38,70dBm at 2442,43MHz
[2024-11-05 01:42:01.048] warning: -48,95dBm at 5180,66MHz
[2024-11-05 01:42:01.048] warning: -48,39dBm at 5184,66MHz
[2024-11-05 01:42:02.066] warning: -49,87dBm at 5168,67MHz
[2024-11-05 01:42:02.066] warning: -49,00dBm at 5172,66MHz
[2024-11-05 01:42:03.082] warning: -49,02dBm at 5168,67MHz
[2024-11-05 01:42:03.082] warning: -49,09dBm at 5172,66MHz
[2024-11-05 01:42:03.082] warning: -49,60dBm at 5176,66MHz
[2024-11-05 01:42:03.082] warning: -48,87dBm at 5180,66MHz
```

AirTag detection and analog and digital demodulation in graphic modes:

IQRawData

05/11/2024 01:59 13%

MSK ON

GMSK OFF

EyeDiagram

05/11/2024 14:16 33%

Constellation

marker

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Detection of wired lines 220v – 3.7/12v – LAN using provided probes:

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Multipurpose Spectrum Analyzer Function:

Frequency	Sweep Time	
Span	Detection Mode	
Amplitude	Marker	Occupied Bandwidth
RBW	△Marker	I&Q Sel
VBW	Channel Power	Clock Sel
Analog Demod	Digital Demod	Phase Demod
Demod setup		

7	8	9	GHz dBm s
4	5	6	MHz dBmV ms
1	2	3	KHz dBuV us
0	,	-	Hz

Esc | Back Space | Enter

Ref -30 [dBm]

05/11/2024 01:57   14%

Marker1
Freq: 432 MHz
Ampl: -51,01

M1

-20
-30
-40
-50
-60
-70
-80

Optional remote control and access :

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