R&S®VSE-K106 EUTRA/LTE NB-IoT
Fast and easy testing of NB-IoT modules and base stations

The perfect choice for

Component tests	Integration and verification

Research and development of base stations, UEs, chipsets and modules

Key specifications

Supported DL standards	EUTRA/LTE NB-IoT in line with 36.211 Rev. 13.3.0 36.104 Rev. 14.0.0
Supported UL standards	EUTRA/LTE NB-IoT in line with 36.211 Rev. 13.3.0 36.101 Rev. 14.0.0

Your benefit	Features
Comfortable testing of NB-IoT devices	Supports all NB-IoT modes
Easy signal quality evaluation	EVM and adjacent channel measurement

The software for all NB-IoT measurements

The R&S®VSE-K106 EUTRA/LTE NB-IoT measurement software can perform all relevant measurements on 3GPP NB-IoT signals:
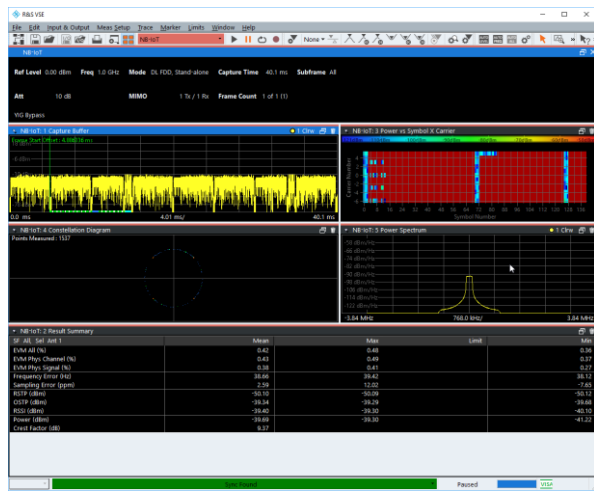❙ UL signals from NB-IoT modules and devices
❙ DL signals from base stations
❙ Signal demodulation and EVM measurements
❙ Spectral measurements/ACLR in line with 3GPP
❙ Time alignment error (TAE) measurements

It works in all three NB-IoT operating modes:
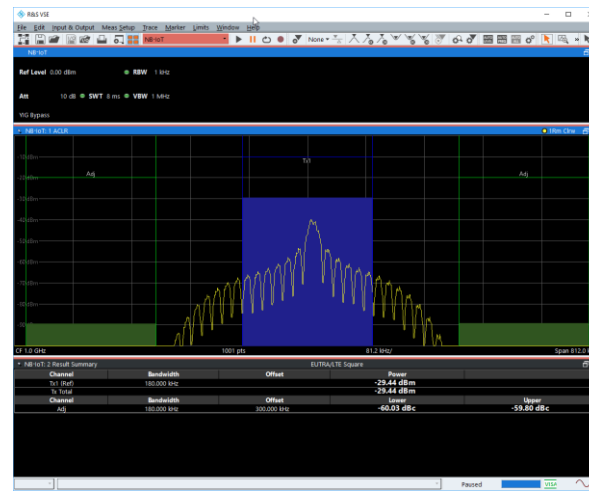❙ In-band
❙ Guard band
❙ Standalone

▷ For more information, visit
www.rohde-schwarz.com/catalog/VSE

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NB-IoT EVM measurement

Measurement of signal quality / EVM

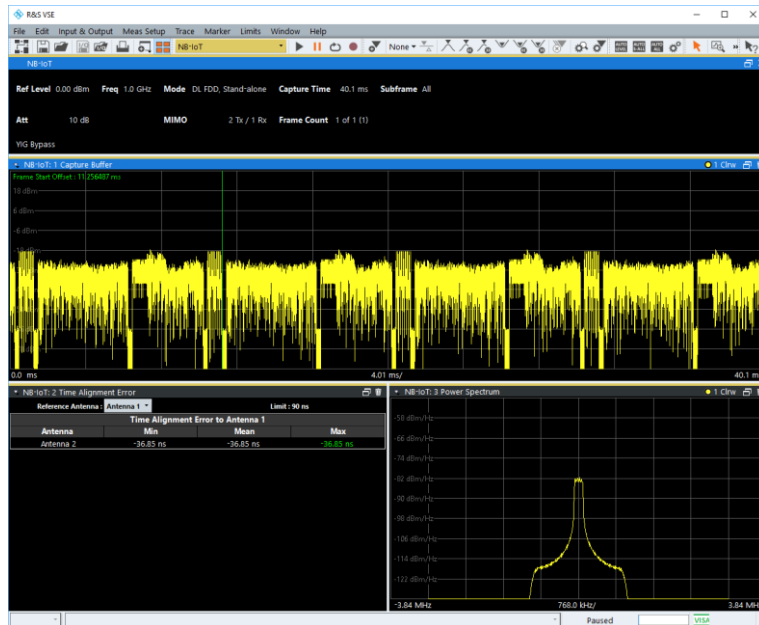## 3GPP unwanted emissions measurement

NB-IoT ACLR measurement

Model configuration information

Description	Type
Vector signal explorer base software	R&S®VSE
EUTRA/LTE NB-IoT measurement application	R&S®VSE-K106
License dongle	R&S®FSPC
VSE software maintenance	R&S®VSE-SWM

Instruments supported by R&S®VSE-K106 include

Description	Type
Signal and spectrum analyzer, 5 kHz to 3 GHz	R&S®FPL1003
Signal and spectrum analyzer, 5 kHz to 7.5 GHz	R&S®FSL1007
Vector network analyzer, two ports, 3 GHz	R&S®ZNL3 (requires R&S®ZNL-B1 option)

NB-IoT time alignment error measurement

Measurement of time alignment error

Rohde & Schwarz Representative