



LimeSuite and LimeSDR

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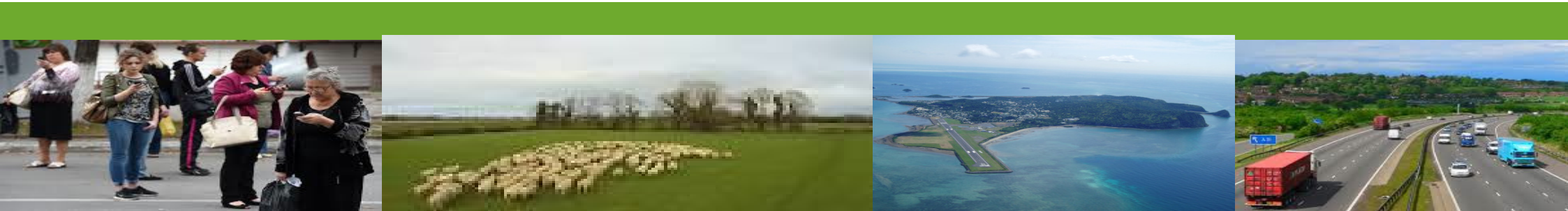


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LimeSuiteGUI Operation

- **Procedure**

- Connect board to USB3
- Option/Connection – Select LimeSDR
- Reset
- Load Settings
- Modules/ADF4002 – Lock to external 10MHz
- Modules/FPGA – Load Waveform
- Connect RF connections
- Modules/FFT Viewer
 - Hanning Window, Average, Channel Power

- **SXR/SXT Changes**

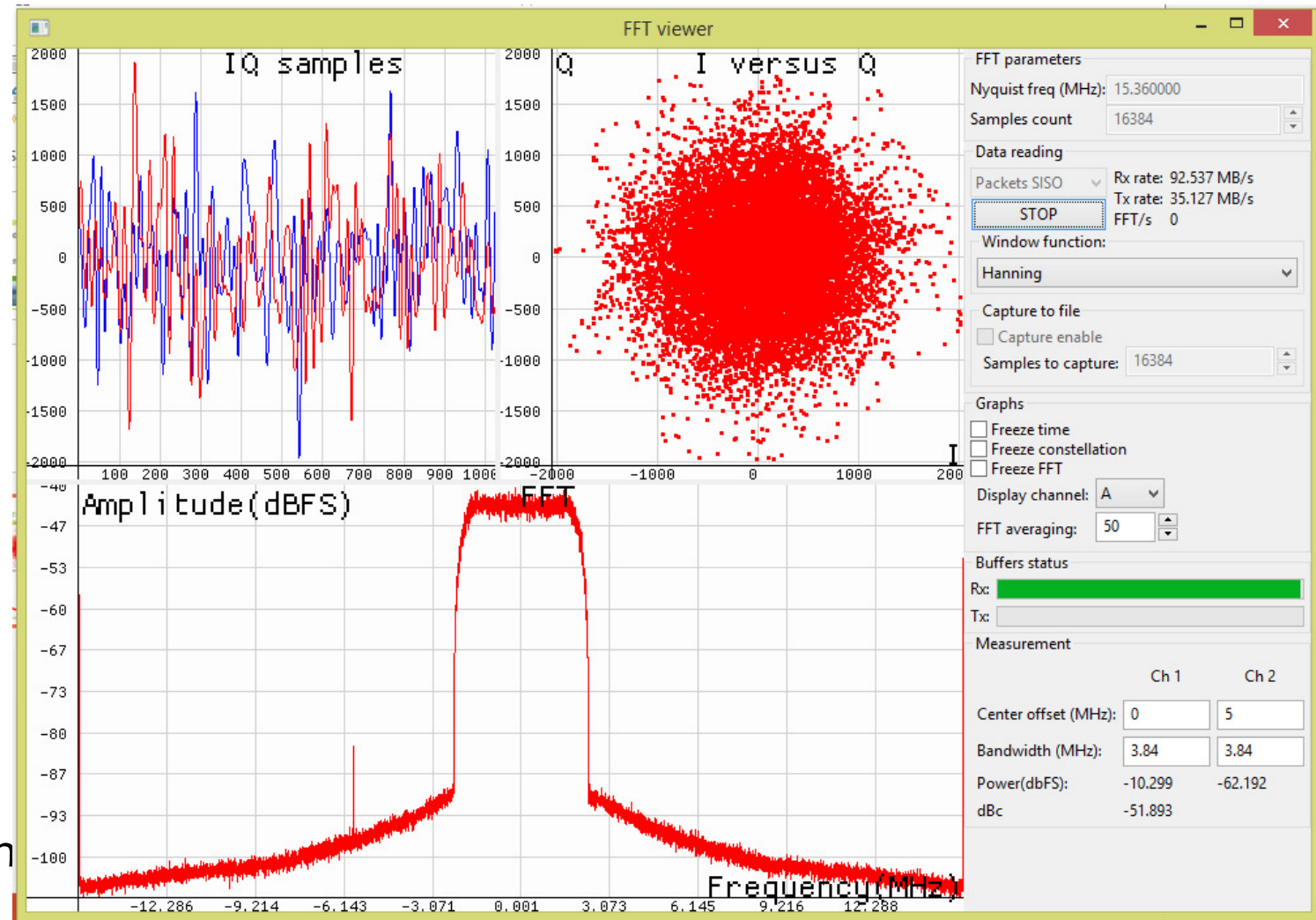
- Calculate MHz
- Tune

- **Interface speed changes**

- CLKGEN
- Interpolation
- Decimation
- Switch off FFT viewer
- CLKGEN – Calculate, tune will update any additional functions.
- Resume FFT viewer

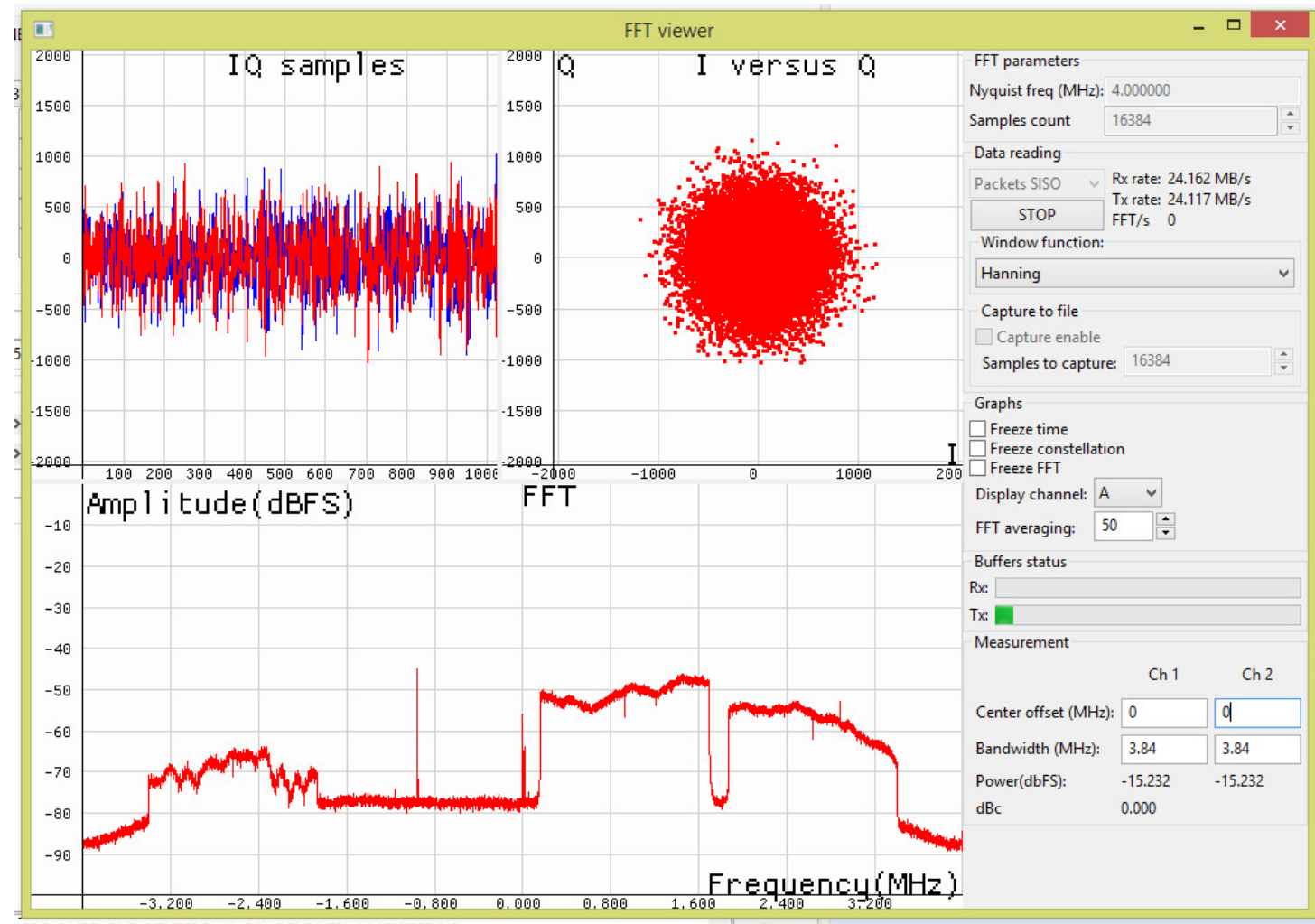
W-CDMA at 866MHz -50dBm 30.72Ms/s

- W-CDMA DL TM 2
- 866MHz
- -50dBm
- CLKGEN/DAC 245.76Ms/s
- ADC Rate 61.44Ms/s
- USB Rate 30.72Ms/s
- Direct Connection between TX and RX
- State
 - DEMO_WCDMA_30.72 Msps_866MHz_-50dBm



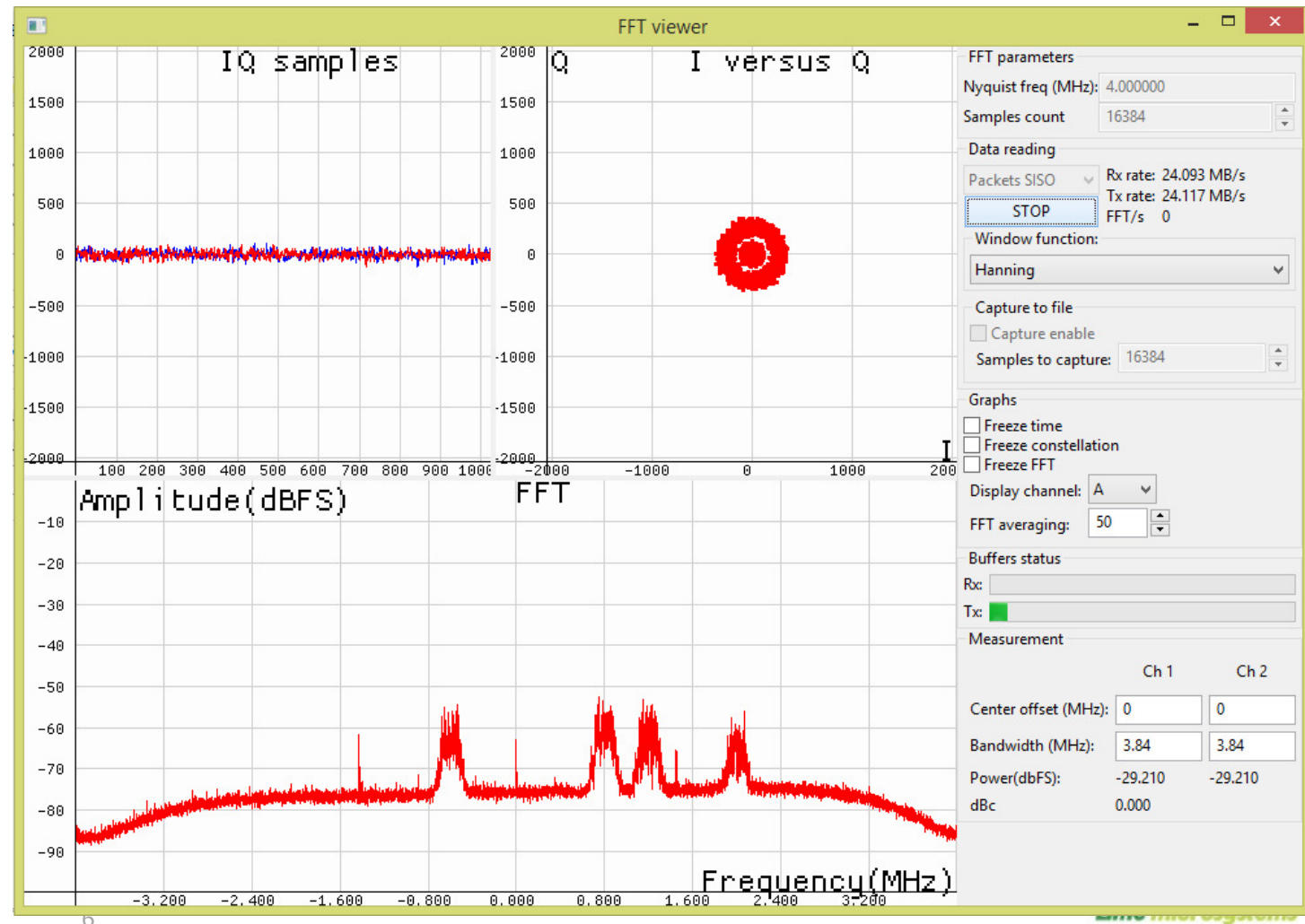
DAB Scanning with LimeSDR

- DAB
- LNAL
- 216MHz
- CLKGEN 64MHz
- ADC Rate 16Ms/s
- USB Rate 8Ms/s
- Live Antenna
- State
 - DEMO_DAB_8Msps_216MHz_Rx.ini



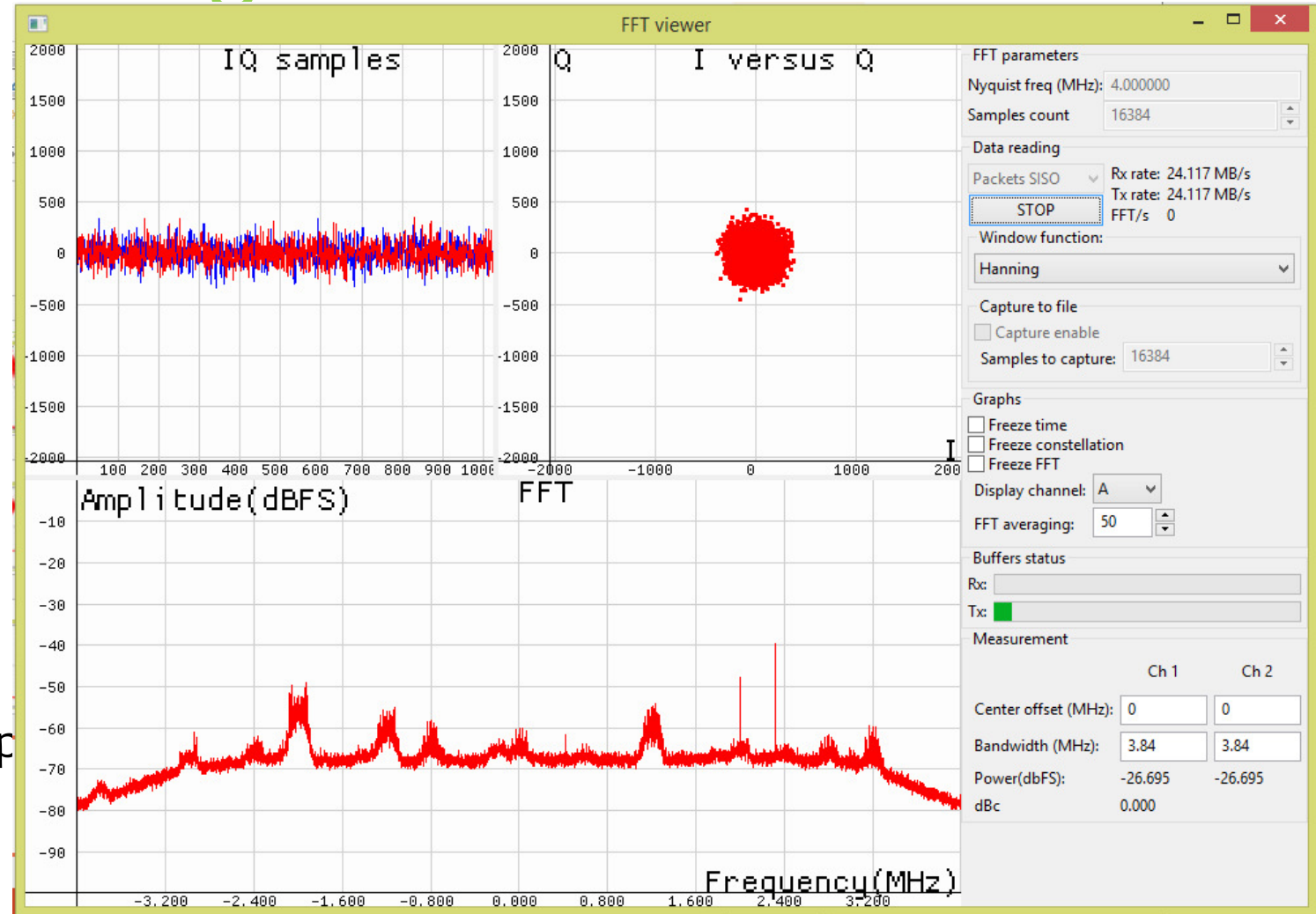
GSM UL Scanning

- GSM UL
- LNAL
- 900MHz
- CLKGEN 64MHz
- ADC Rate 16Ms/s
- USB Rate 8Ms/s
- Live Antenna
- State
 - DEMO_GSMUL_8Msps_900MHz_Rx.ini



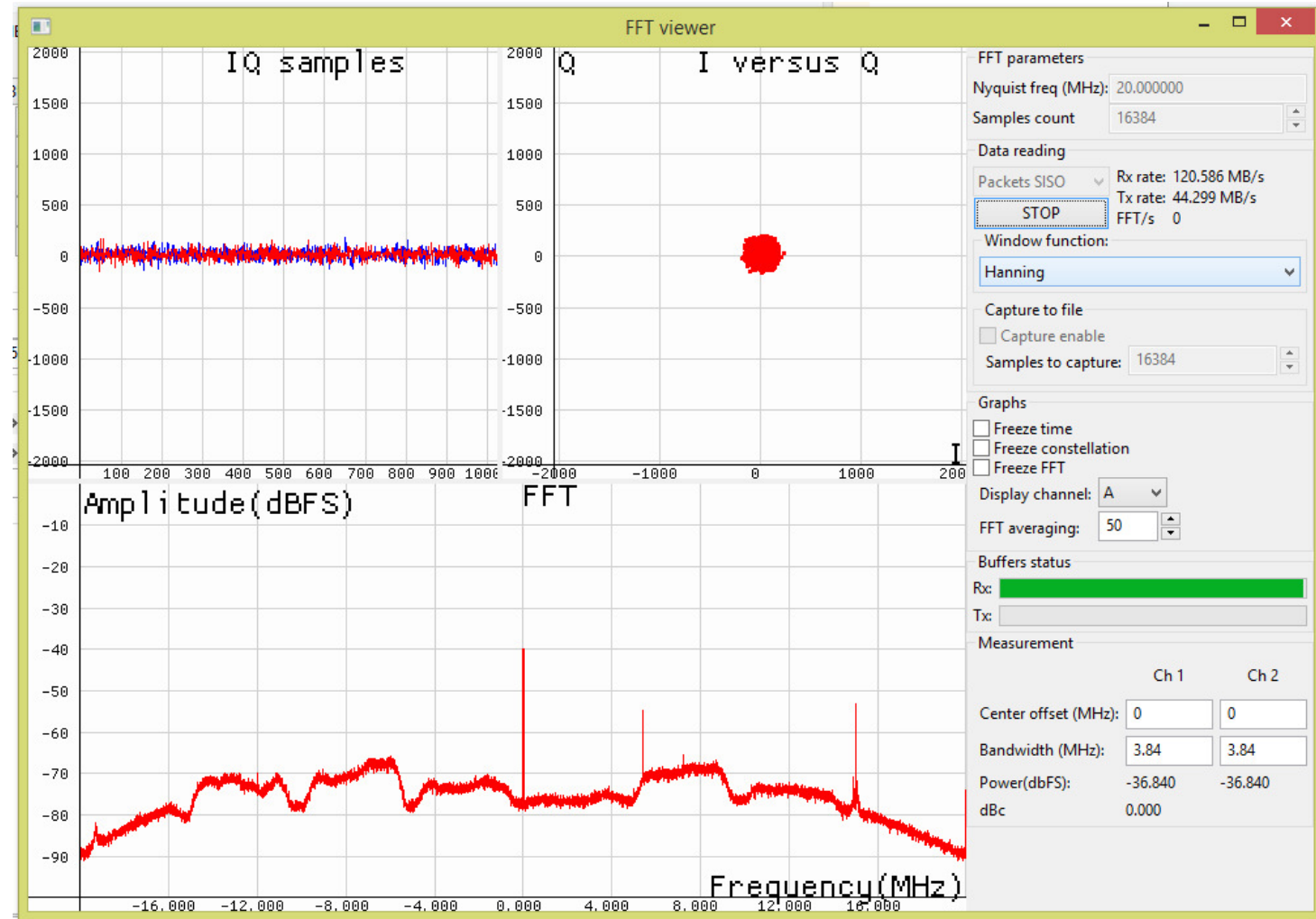
GSM DL Scanning

- GSM DL
- LNAL
- 950MHz
- CLKGEN 64MHz
- ADC Rate 16Ms/s
- USB Rate 8Ms/s
- Live Antenna
- State
 - DEMO_GSMDL_8Msp_950MHz_Rx.ini



W-CDMA/LTE Band 1 DL Scan

- W-CDMA/LTE
- LNAH
- 2145MHz
- CLKGEN 640MHz
- ADC Rate 160Ms/s
- USB Rate 40Ms/s
- Live Antenna
- State
 - DEMO_WCDMADL_40Msps_2145MHz_RxLNAH.ini



WiFi Scanning

- WiFi
- LNAH
- 2450MHz
- CLKGEN 640Ms/s
- ADC Clock 160Ms/s
- USB Rate 40Ms/s
- Live Antenna
- State
 - DEMO_WiFi_40Msp
_2450MHz_RxLNAH.
ini

