

Annex 3: Measurement diagrams to
TEST REPORT
 No.: 6-0608-14-1-4a

According to:
FCC Regulations
 Part 22, Part 24, Part 15.209

IC-Regulations
 RSS-132, RSS-133, RSS-Gen

for

Telit Communications S.p.A.

UE866-N3G
 3G module

FCC-ID: RI7UE866N3

IC: 5131A-UE866N3
 PMN: UE866-N3G
 HVIN: 0H0







| Laboratory Accreditation and Listings | | | |
|--|---|--|--|
|  Deutsche Akkreditierungsstelle D-PL-12047-01-01 |  MRA US-EU 0003 |  Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3 |  Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301 |
|  WiFi ALLIANCE AUTHORIZED RF LABORATORY |  CTIA Authorized Test Lab LAB CODE 20011130-00 | | |
| accredited according to DIN EN ISO/IEC 17025 | | | |
| <p align="center"> CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com </p> | | | |

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1. Measurement diagrams

1.1. Spurious emissions radiated (FDD Band II transmitting mode)

8.04_TCH_UMTS-FDDII_ch9262_nomVolt

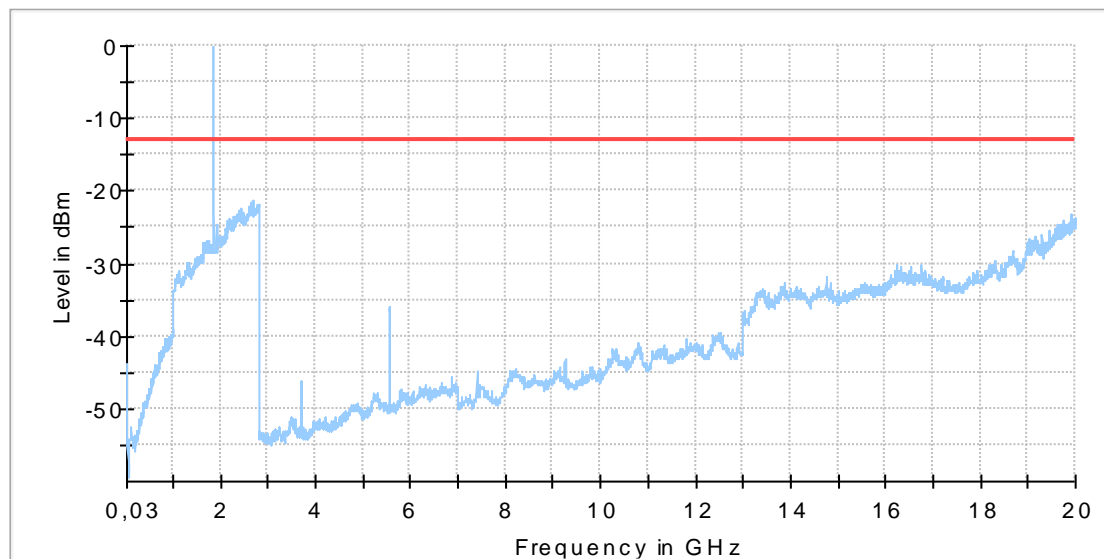
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | UE allocated channel 9262 (fc = 1852.4MHz) |
| Environmental Conditions: | Humidity: 34%rH; Temperature: 23°C |
| Operator: | npe/mzs |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Po l | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|------|---------------|-----------------|------------|
| 1853.677355 | -13.00 | -34.32 | 10000.0 | H | 160.0 | 90.0 | -63.1 |

8.05_TCH_UMTS-FDDII_ch9400_nomVolt

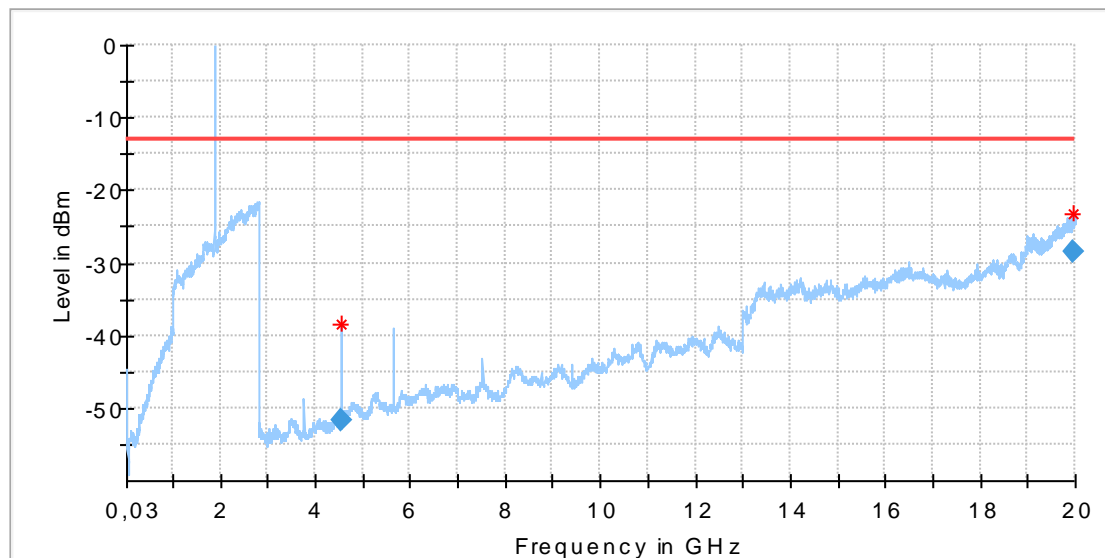
Common Information

| | |
|---------------------------|---|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | UE allocated channel 9400 (fc = 1880.0 MHz) |
| Environmental Conditions: | Humidity: 34%rH; Temperature: 23°C |
| Operator: | npe/mzs |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Po l | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|------|---------------|-----------------|------------|
| 1878.787576 | -13.00 | -33.96 | 10000.0 | H | 169.0 | 90.0 | -63.0 |
| 4546.503006 | -13.00 | 38.73 | 10000.0 | H | 280.0 | 90.0 | -92.4 |
| 19953.176353 | -13.00 | 15.55 | 10000.0 | V | 119.0 | 90.0 | -60.4 |

8.06_TCH_UMTS-FDDII_ch9538_nomVolt

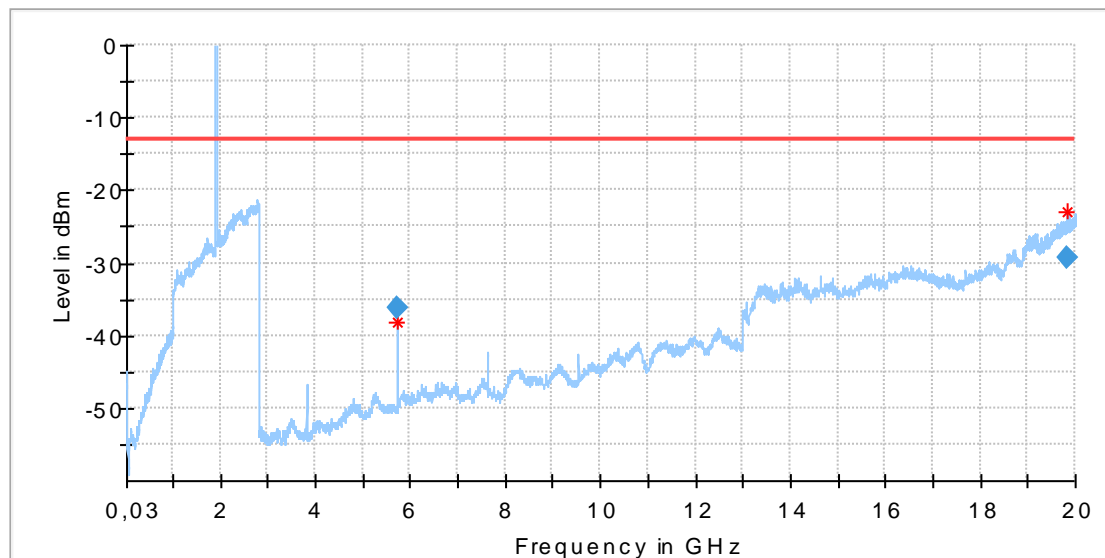
Common Information

| | |
|---------------------------|---|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | UE allocated channel 9262/9400/9538 (fc = 1852.4/1880.0/1907.6 MHz) |
| Environmental Conditions: | Humidity: 34%rH; Temperature: 23°C |
| Operator: | npe/mzs |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Po l | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|------|---------------|-----------------|------------|
| 1906.402806 | -13.00 | -35.28 | 10000.0 | H | 159.0 | 90.0 | -62.9 |
| 5726.583166 | -13.00 | 23.21 | 10000.0 | H | 50.0 | 90.0 | -89.5 |
| 19818.847696 | -13.00 | 16.24 | 10000.0 | V | 262.0 | 0.0 | -60.6 |

1.2. Spurious emissions radiated (FDD Band V transmitting mode)

8.01_TCH_UMTS-FDDV_ch4132_nomVolt

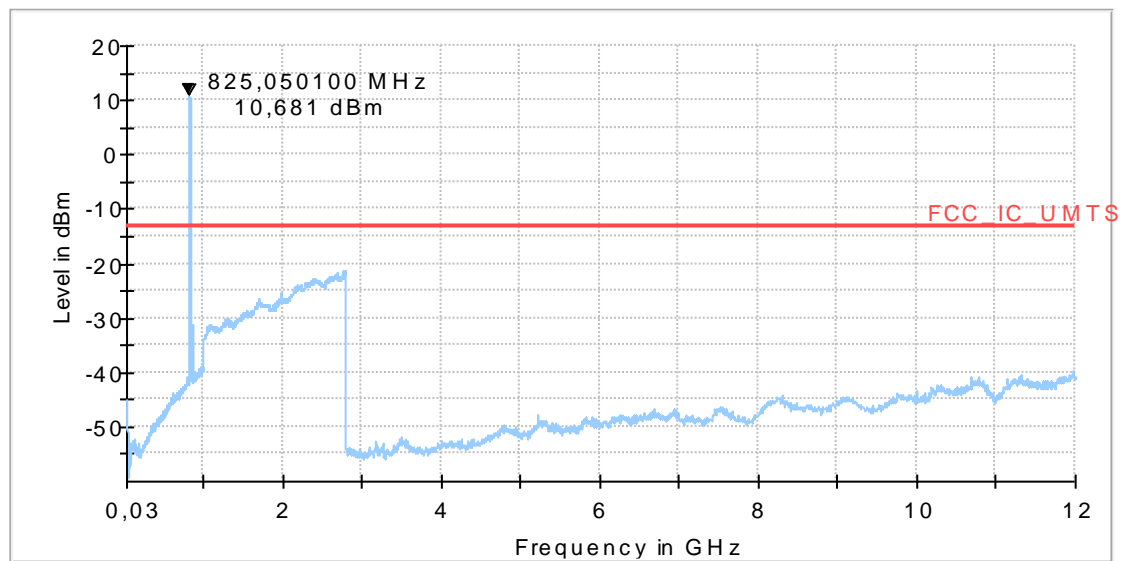
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | UE allocated channel 4132 (fc = 826.4MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | HLa |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



8.02_TCH_UMTS-FDDV_ch4183_nomVolt

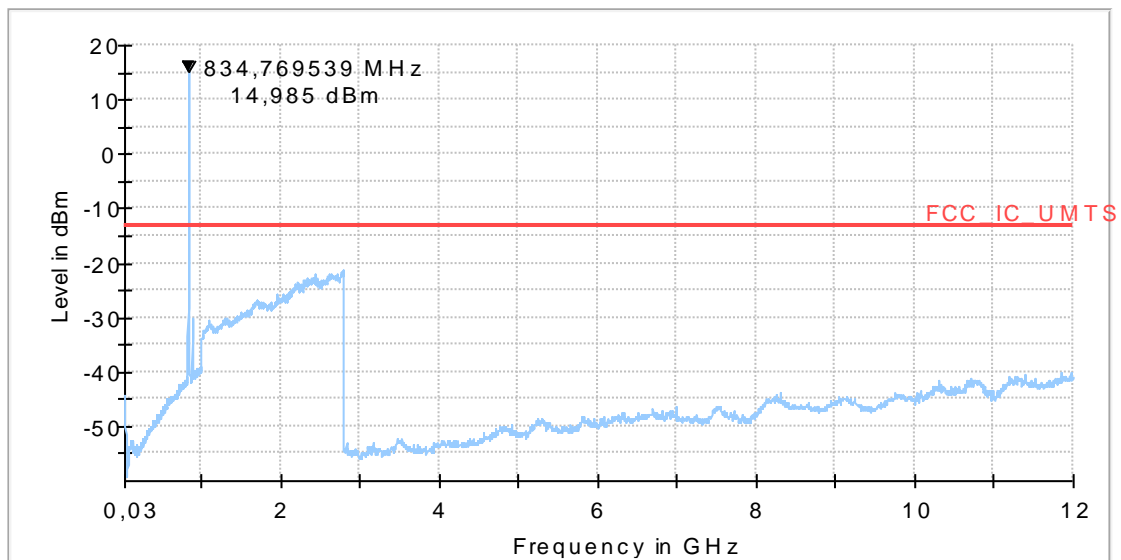
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | UE allocated channel 4183 (fc = 836.6MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | HLa |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



8.03_TCH_UMTS-FDDV_ch4233_nomVolt

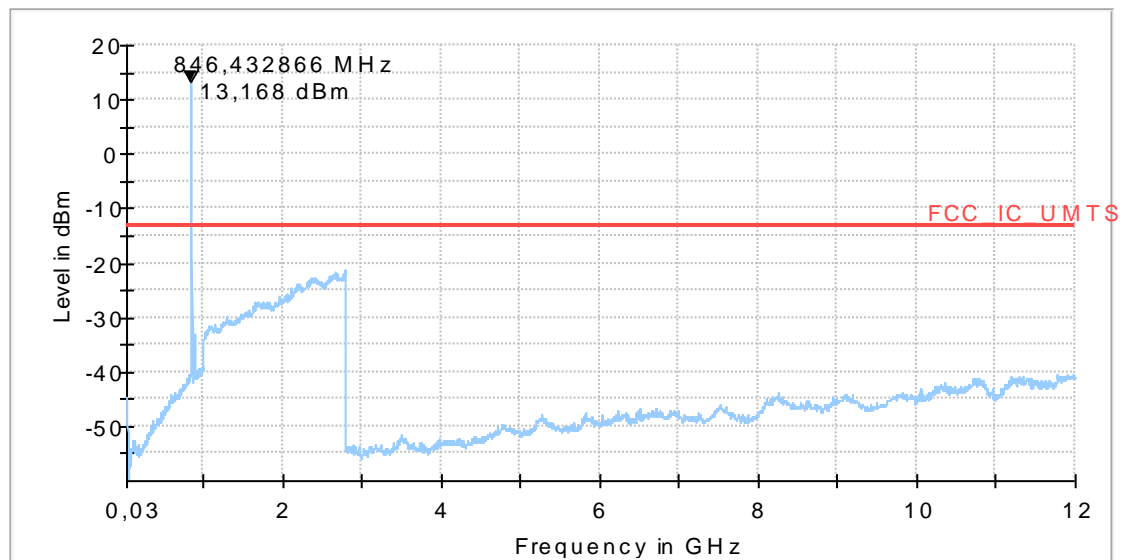
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | UE allocated channel 4233 (fc = 846.6MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | HLa |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



1.3. Radiated emissions on FDD Band II band-edge

9.03_BE_FDDII_ch9262

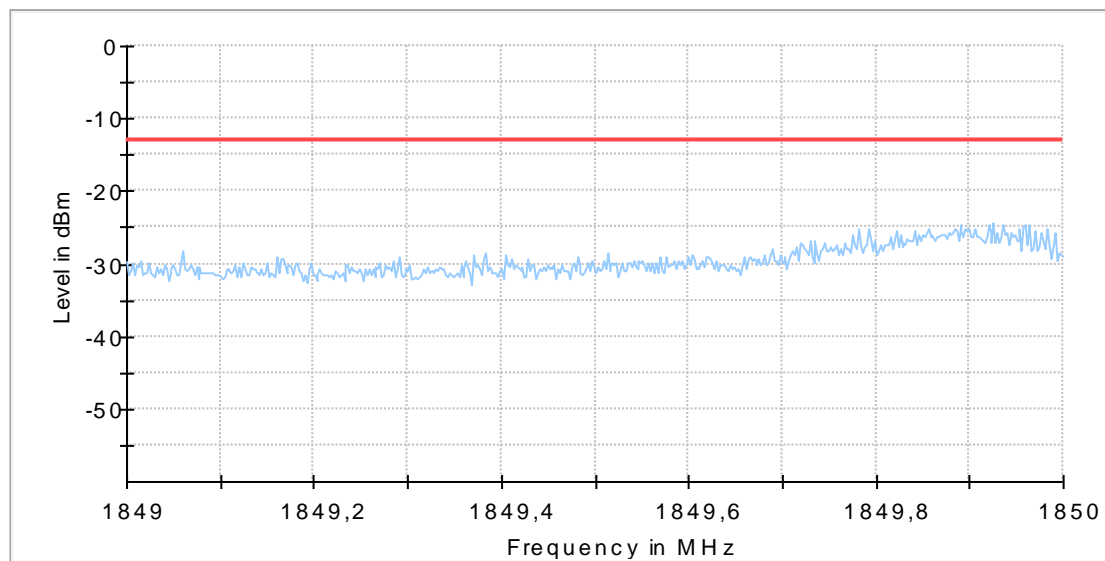
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Band Edge Compliance UMTS-FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917 |
| Operating Mode: | UE allocated channel 9262 |
| Exclusionband: | -- |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | NPE/MZS |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



9.04_BE_FDDII_ch9538

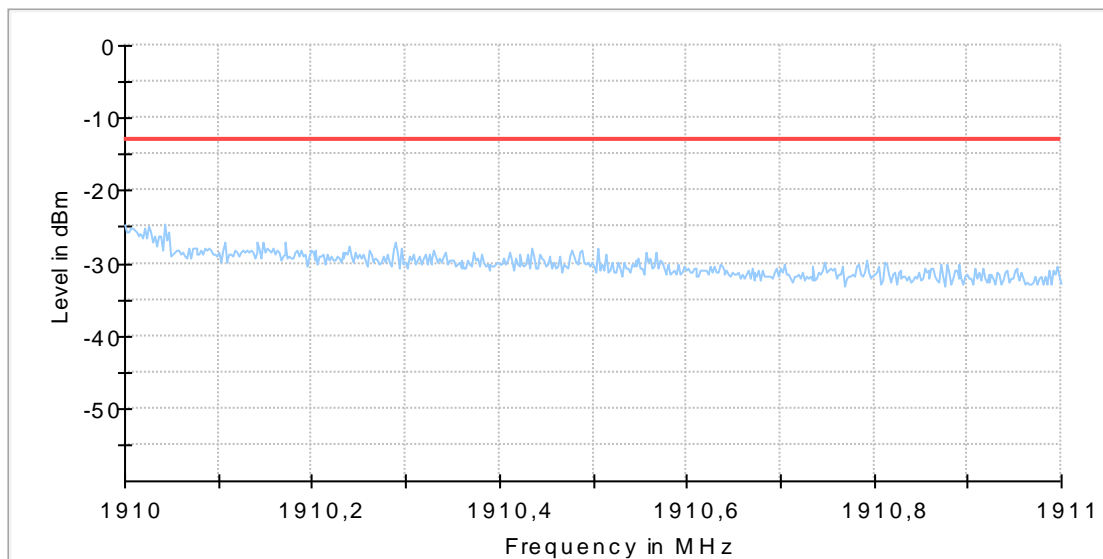
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Band Edge Compliance UMTS-FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917 |
| Operating Mode: | UE allocated channel 9538 |
| Exclusionband: | -- |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | NPE/MZS |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



1.4. Radiated emissions on FDD Band V band-edge

9.01_BE_FDDV_ch4132

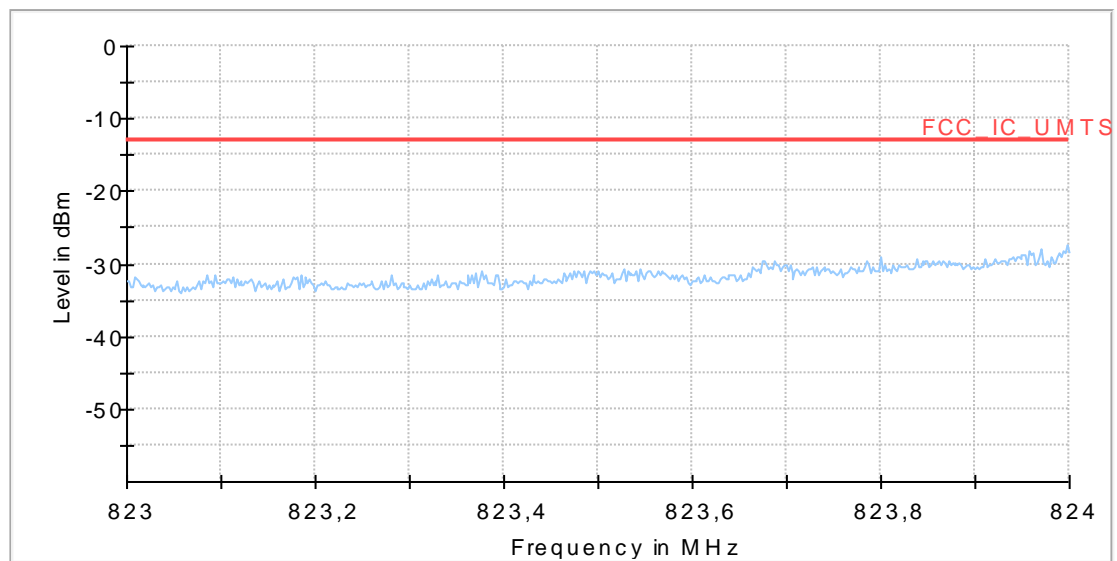
Common Information

| | |
|---------------------------|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions UMTS FDDV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | UE allocated channel 4132 |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | npe |
| Remarks: | |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

Full Spectrum



9.02_BE_FDDV_ch4233

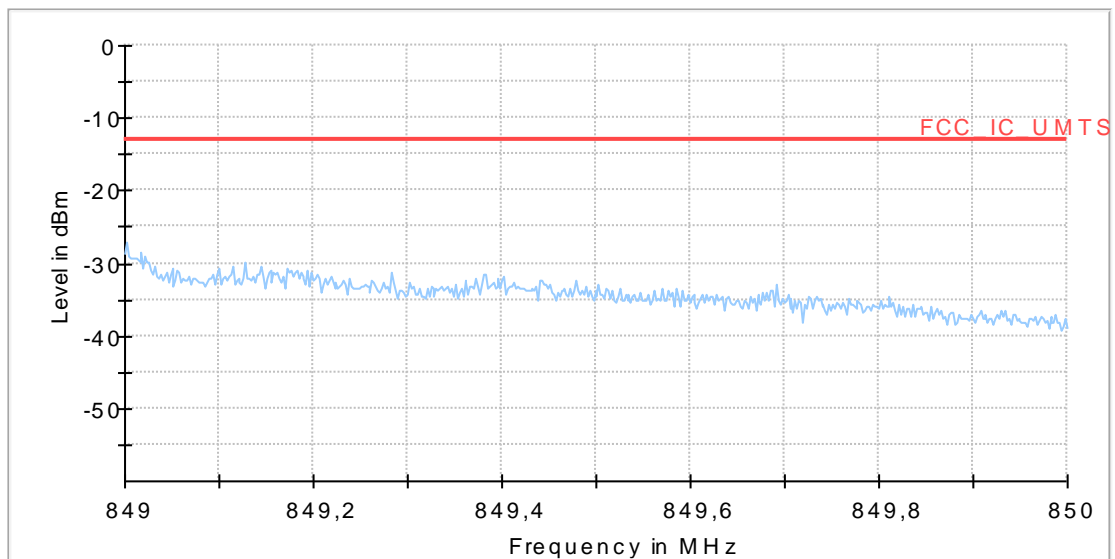
Common Information

| | |
|---------------------------|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions UMTS FDDV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | UE allocated channel 4233 |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 22°C |
| Operator: | npe/mzs |
| Remarks: | |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |
| Comments: | |

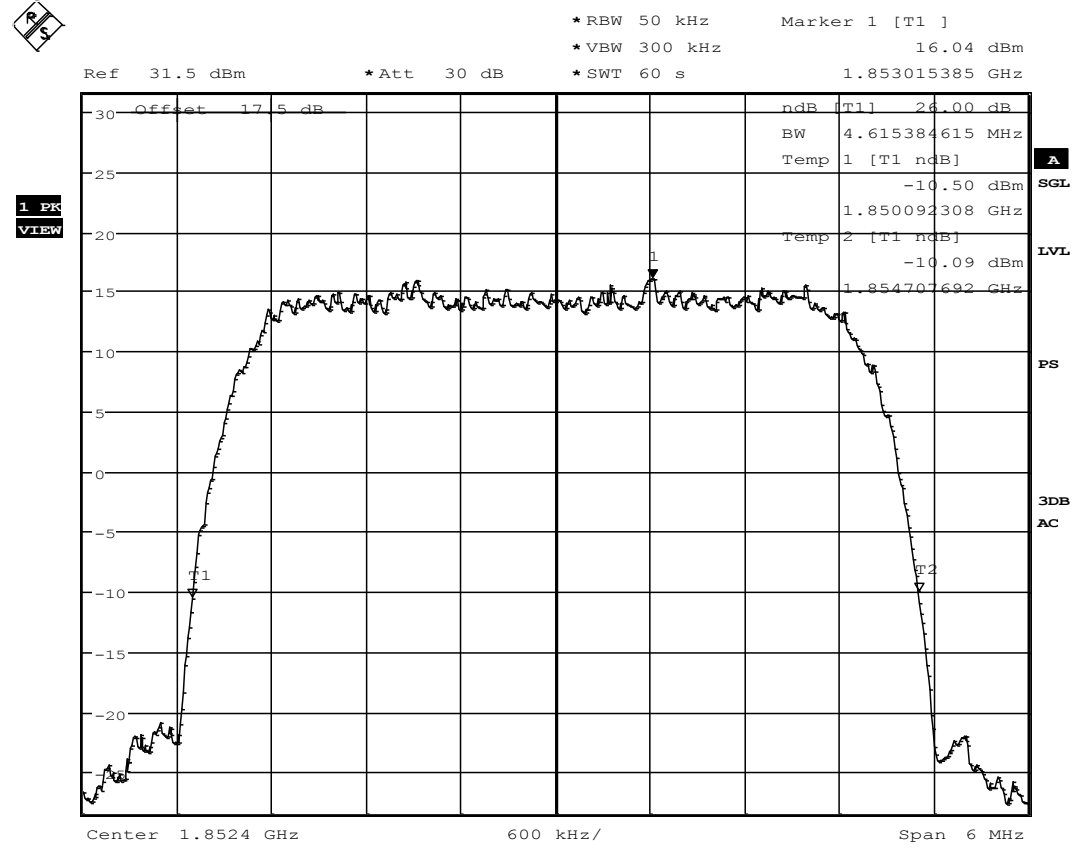
Full Spectrum



1.5. 26dBc Emission bandwidth

1.5.1. FDD II TX Mode

Channel 9262



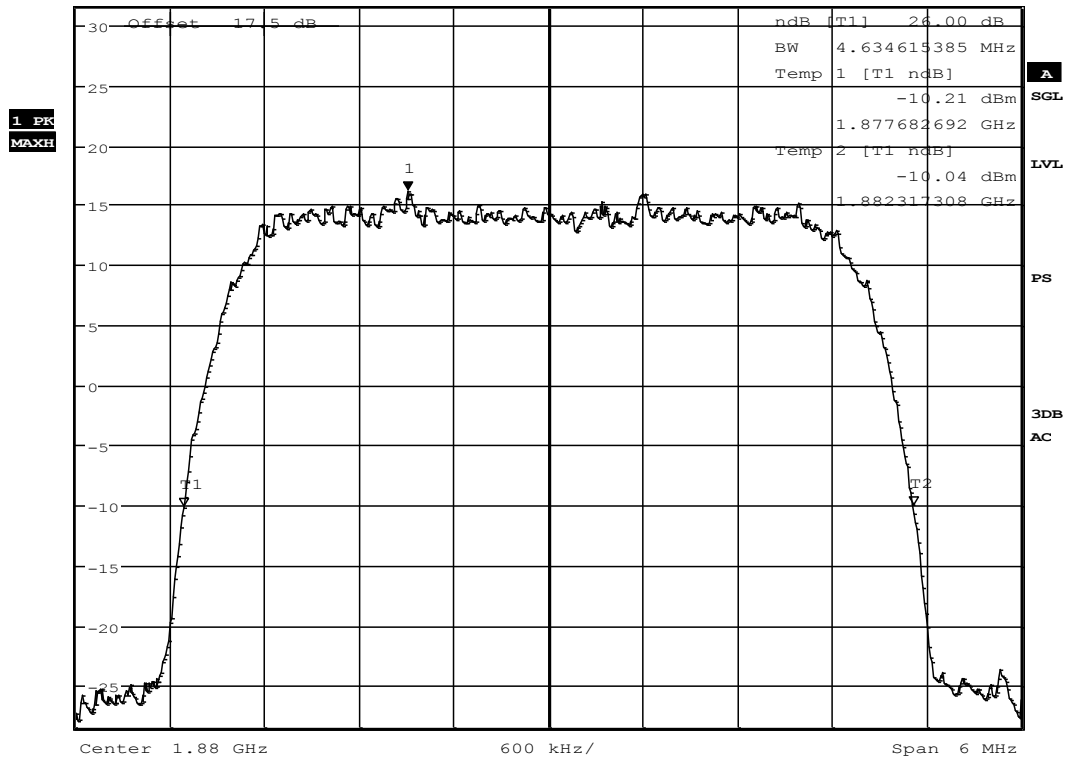
Date: 26.MAR.2015 14:14:30

Channel 9400



*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 16.20 dBm
 *SWT 60 s 1.879105769 GHz

Ref 31.5 dBm *Att 30 dB



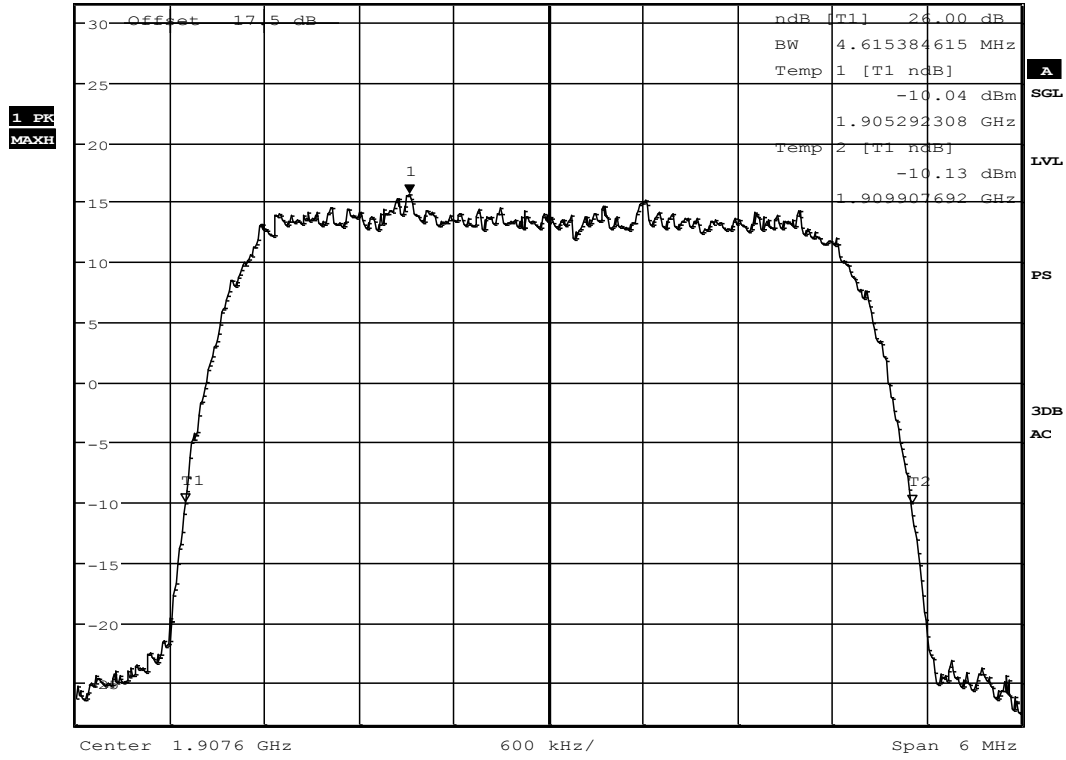
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Channel 9538



*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 15.71 dBm
 *SWT 60 s 1.906715385 GHz

Ref 31.5 dBm *Att 30 dB



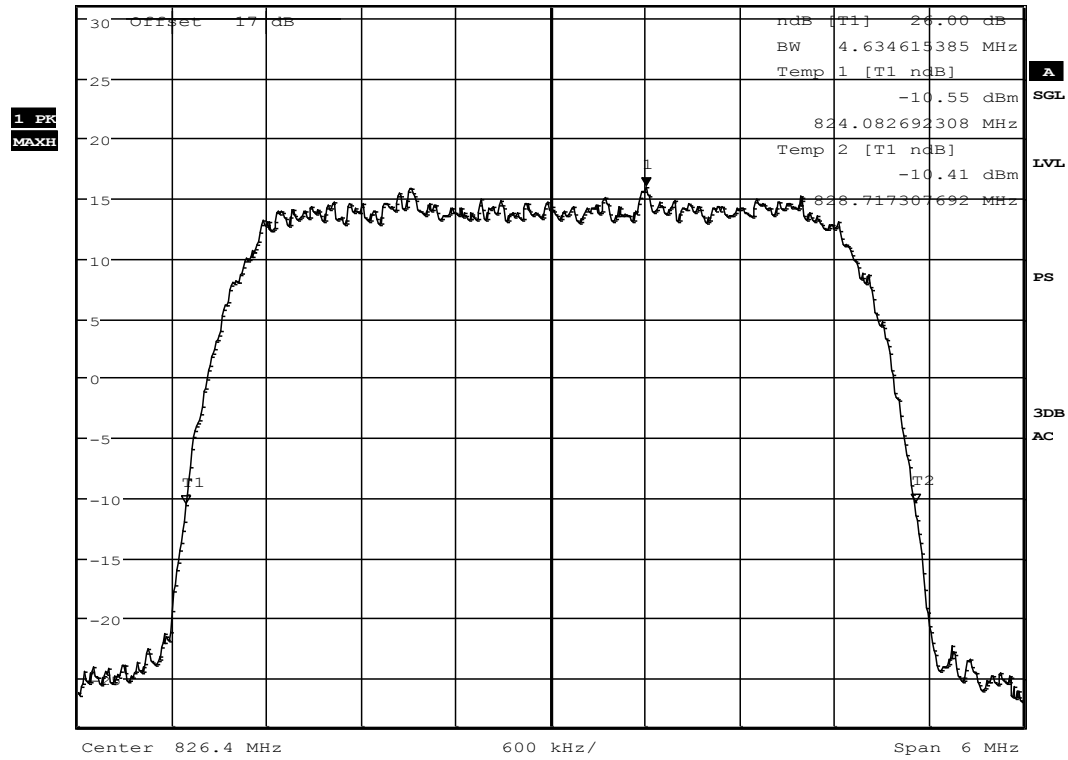
Date: 26.MAR.2015 14:19:27

1.5.2. FDD V TX Mode

Channel 4132



*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 15.88 dBm
 Ref 31 dBm *Att 30 dB *SWT 60 s 827.005769231 MHz



Date: 26.MAR.2015 14:06:29

Channel 4183

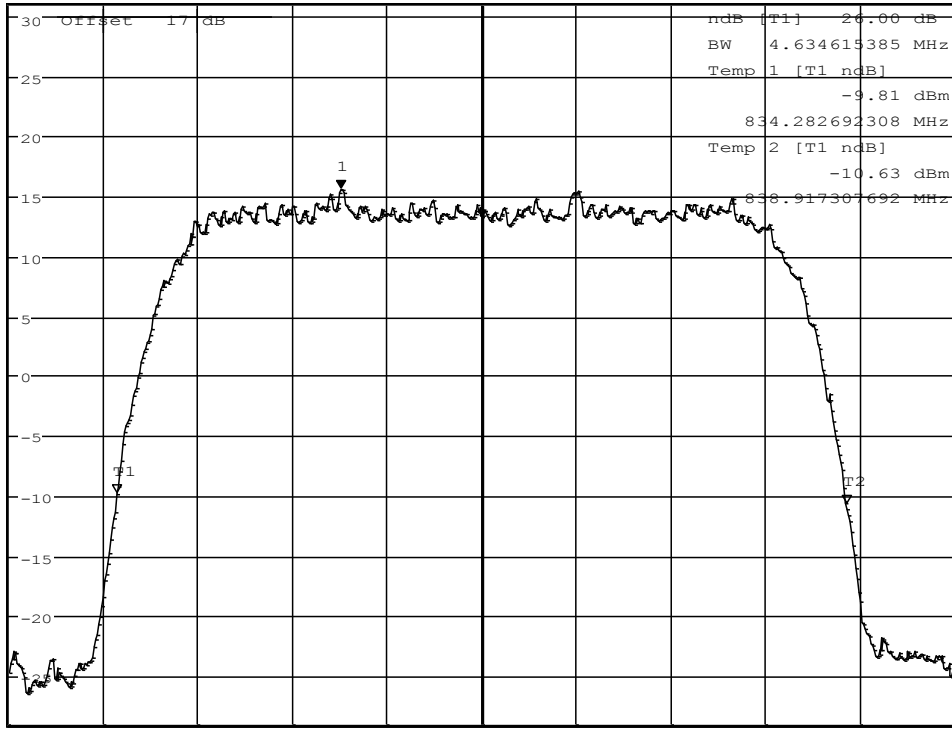


*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 15.60 dBm
 *SWT 60 s 835.705769231 MHz

Ref 31 dBm

*Att 30 dB

1 PK
MAXH



Date: 26.MAR.2015 14:09:23

Channel 4233

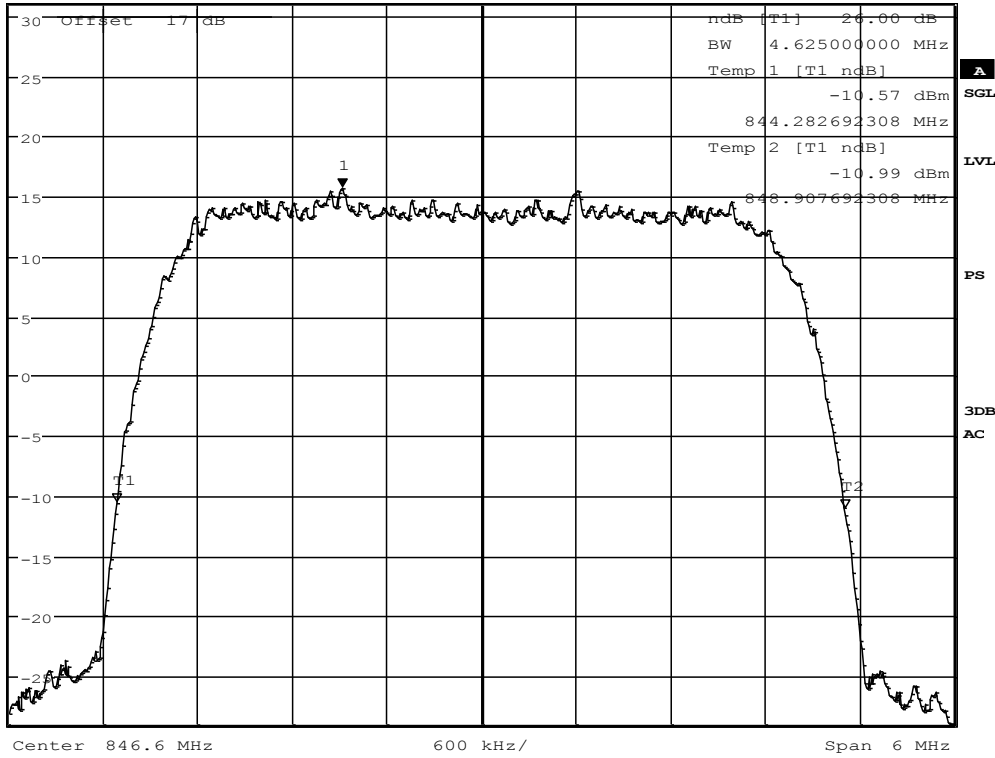


*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 15.63 dBm
 *SWT 60 s 845.715384615 MHz

Ref 31 dBm

*Att 30 dB

1 PK
VIEW

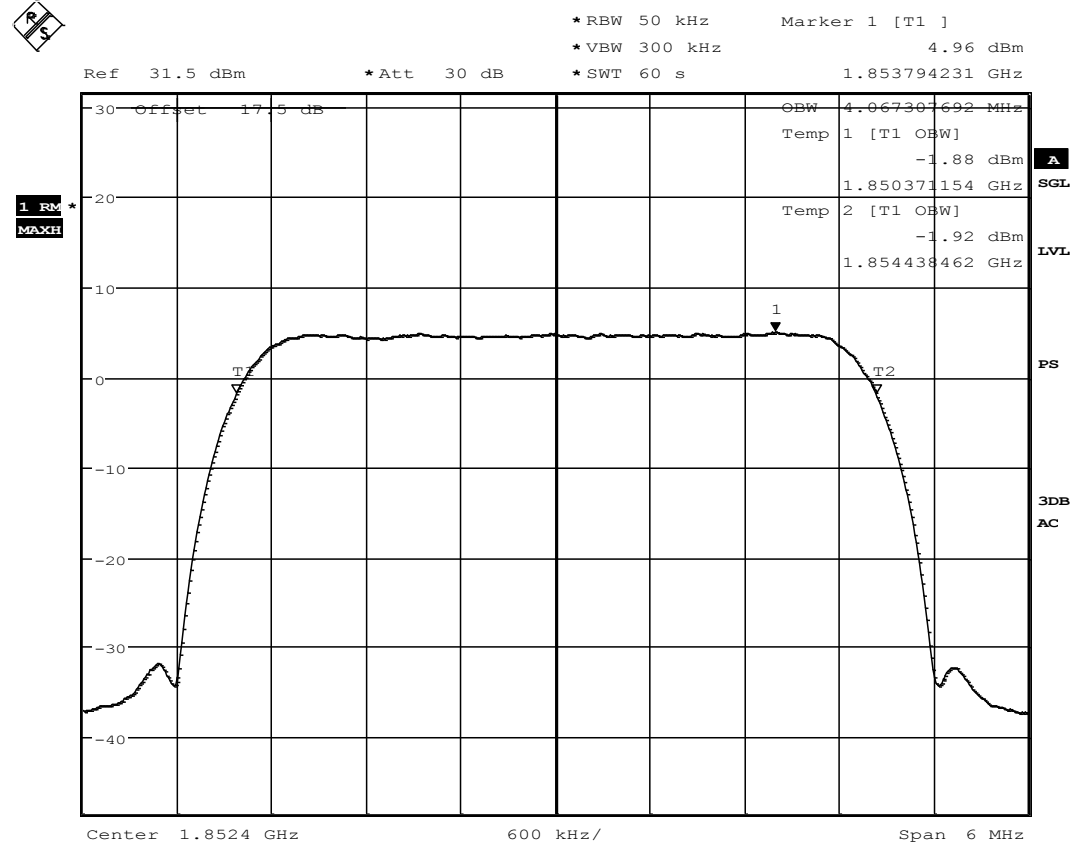


Date: 26.MAR.2015 14:12:21

1.6. 99% Occupied bandwidth

1.6.1. FDD II TX Mode

Channel 9262



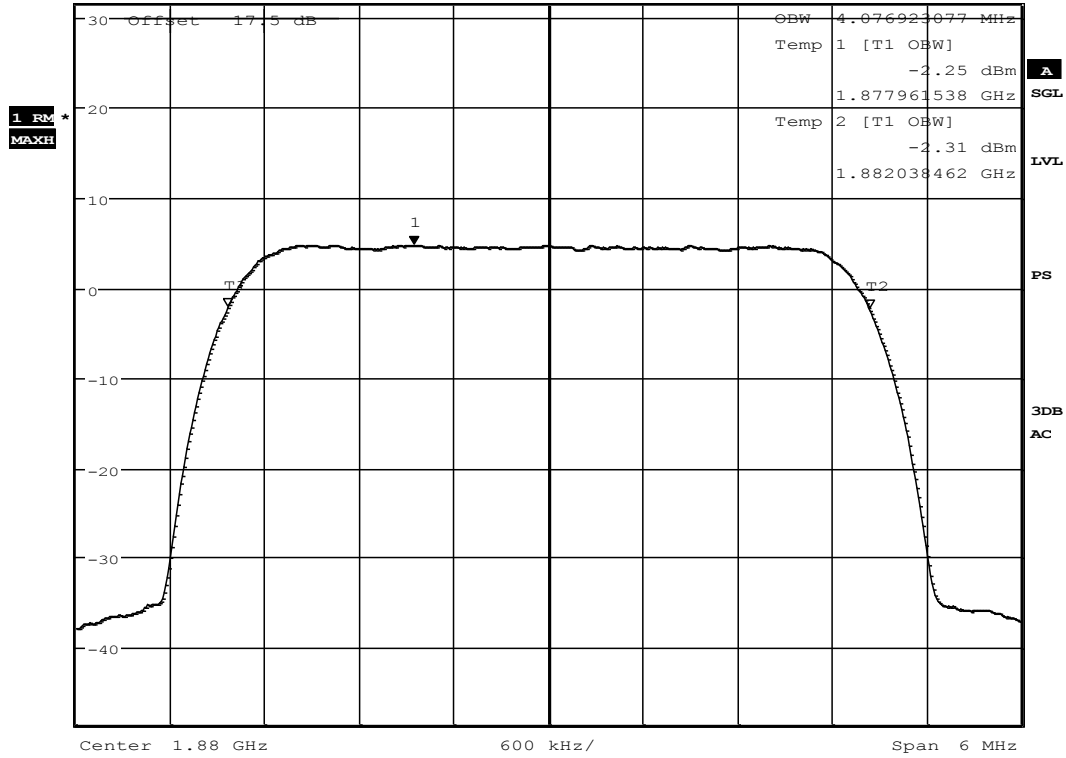
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Channel 9400



*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 4.78 dBm
 *SWT 60 s 1.879144231 GHz

Ref 31.5 dBm *Att 30 dB Offset 17.5 dB



Date: 26.MAR.2015 14:26:46

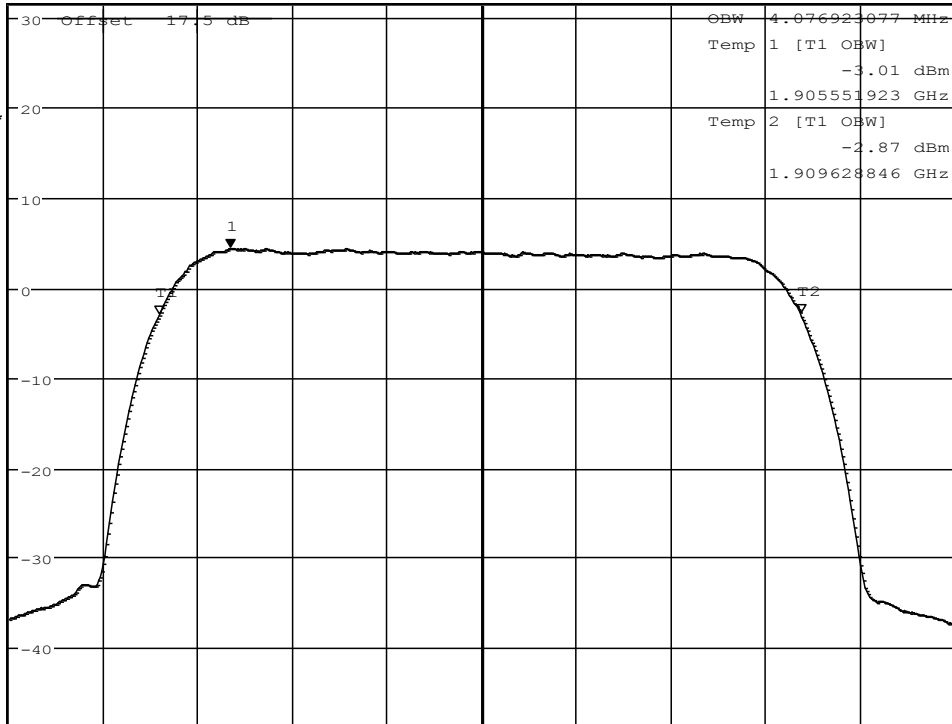
Channel 9538



*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 4.38 dBm
 *SWT 60 s 1.906003846 GHz

Ref 31.5 dBm *Att 30 dB

1 RM *
 VIEW



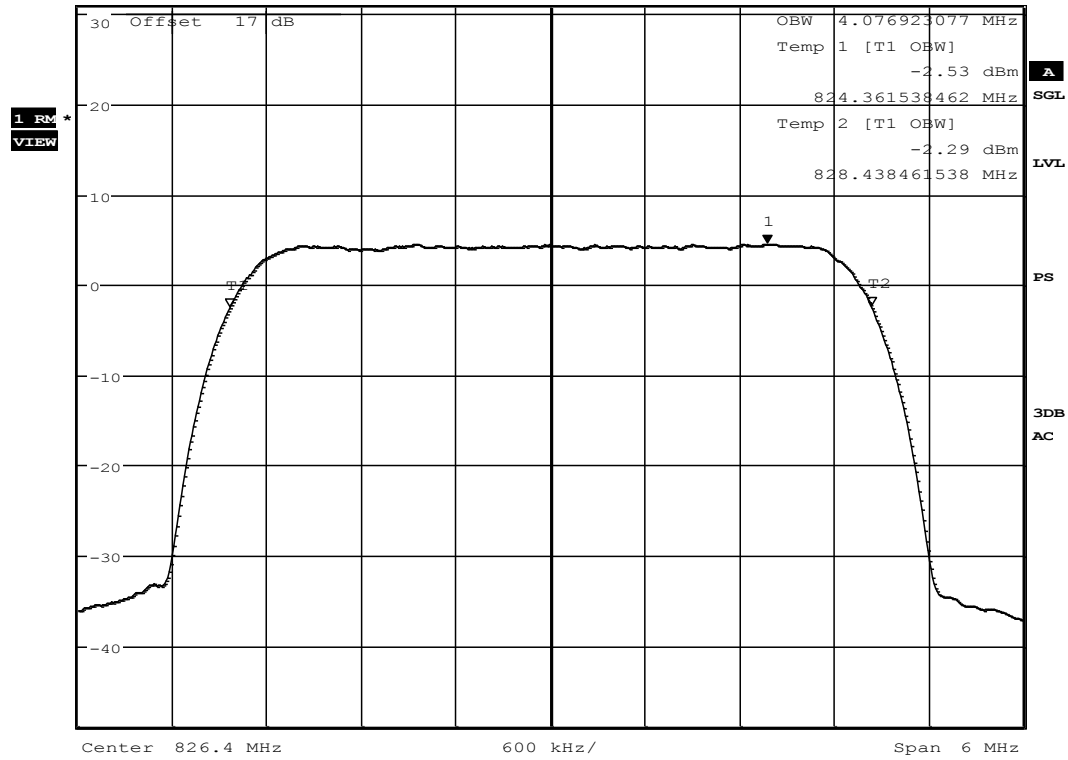
Date: 26.MAR.2015 14:28:37

1.6.2. FDD V TX Mode

Channel 4132



Ref 31 dBm *Att 30 dB *RBW 50 kHz Marker 1 [T1] 4.61 dBm
 *VBW 300 kHz 827.775000000 MHz
 *SWT 60 s



Date: 26.MAR.2015 14:34:05

Channel 4183

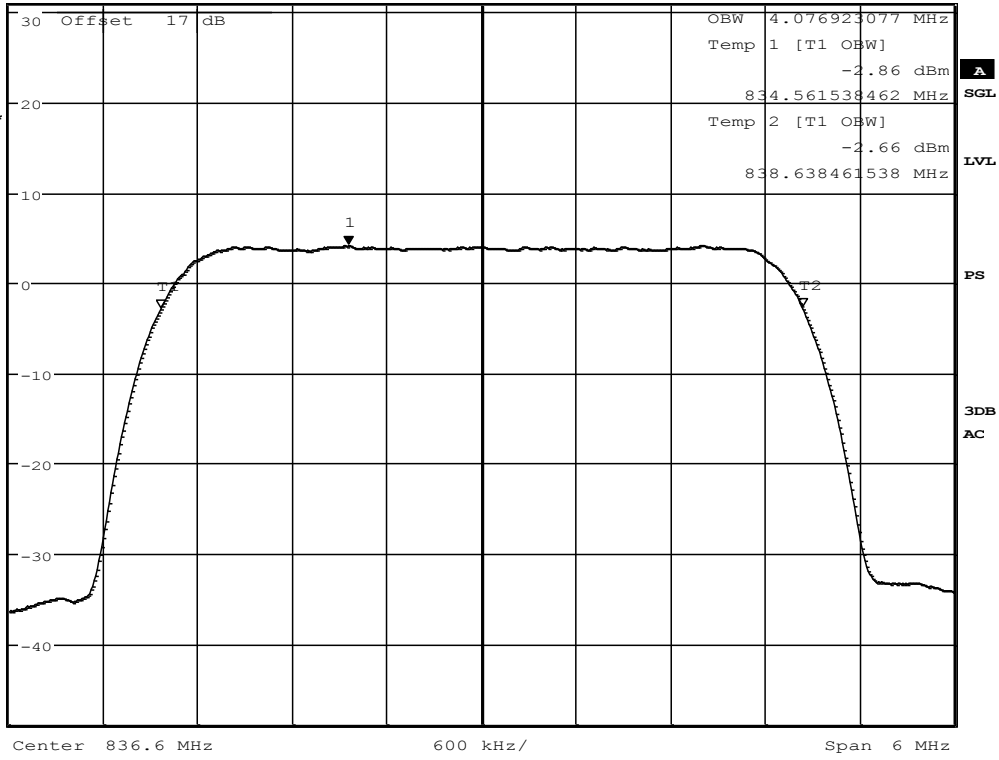


*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 4.21 dBm
 *SWT 60 s 835.753846154 MHz

Ref 31 dBm

*Att 30 dB

1 RM *
 VIEW



Date: 26.MAR.2015 14:36:15

Channel 4233

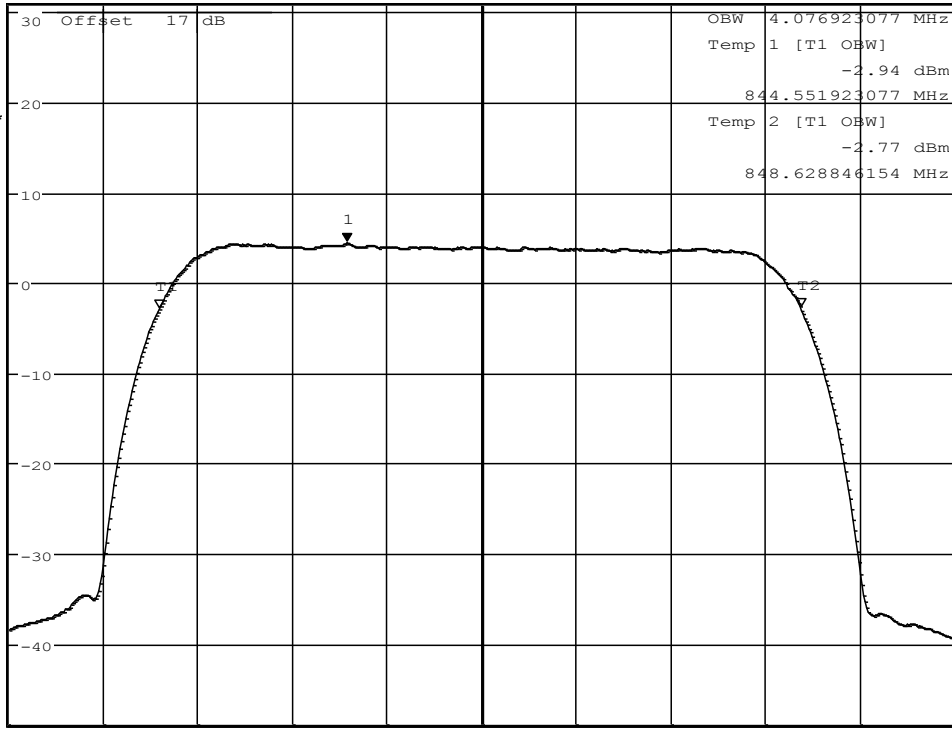


*RBW 50 kHz Marker 1 [T1]
 *VBW 300 kHz 4.45 dBm
 *SWT 60 s 845.744230769 MHz

Ref 31 dBm

*Att 30 dB

1 RM *
 MAXH



Date: 26.MAR.2015 14:38:02

1.7. Spurious emissions conducted on FDD Band II

Diagram No.: 36.60_RSE_Ch9262_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

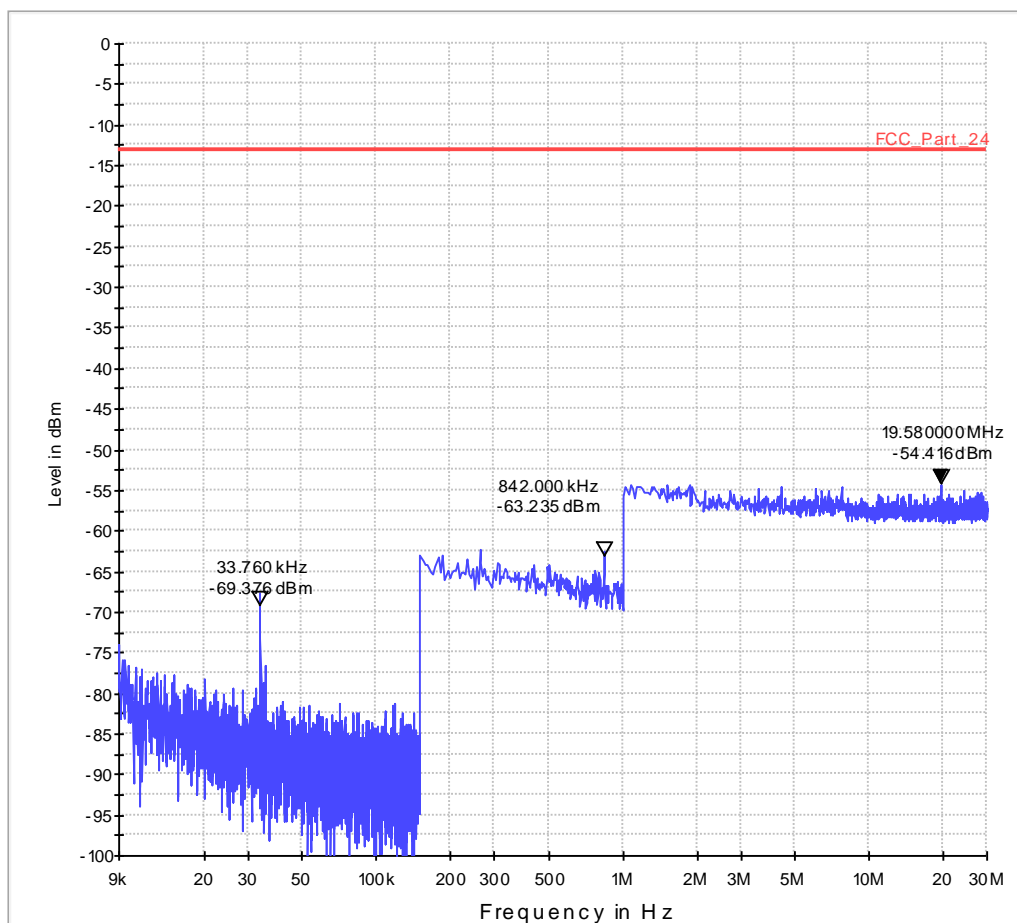


Diagram No.: 36.61_RSE_Ch9262_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

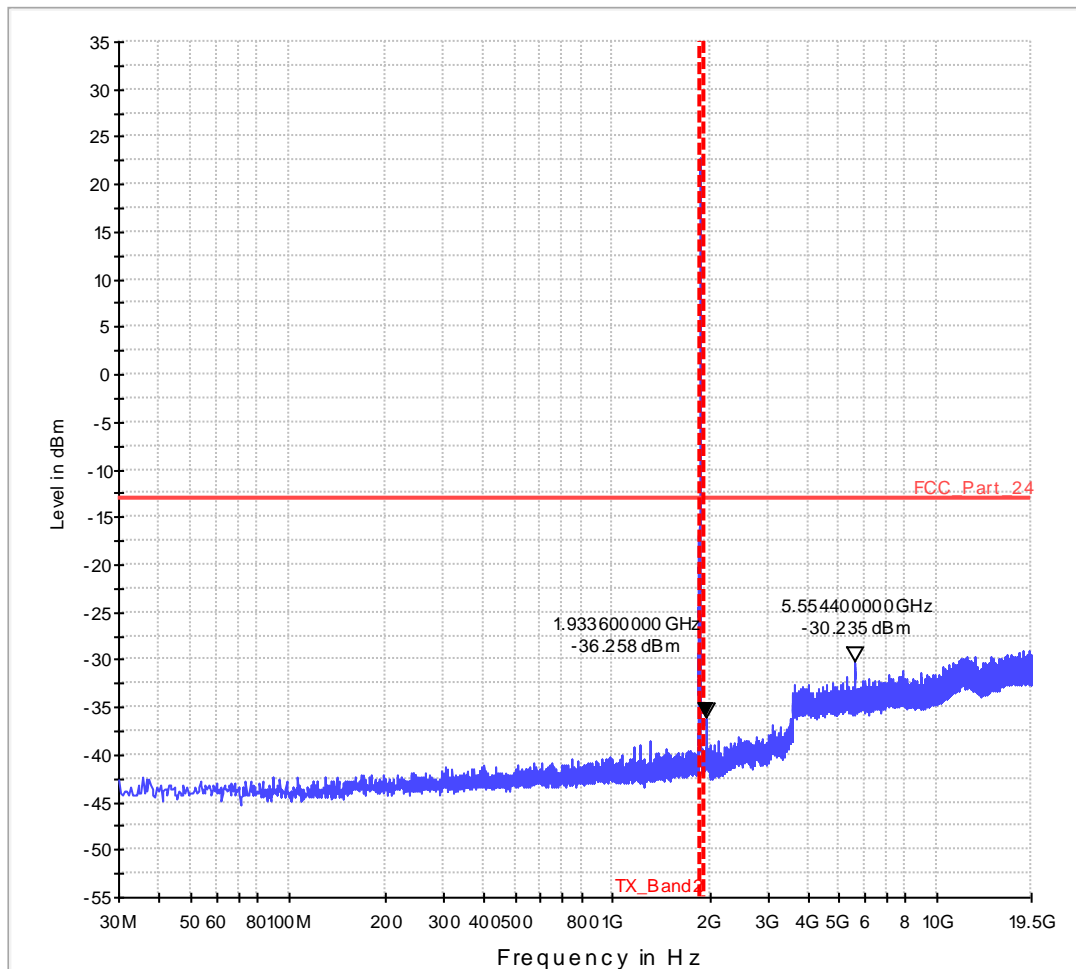


Diagram No.: 36.62_RSE_Ch9400_RMC_Sweep1**Common Information**

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9400 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|---------------|------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |

| | |
|-----------------------|--------------------------------------|
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

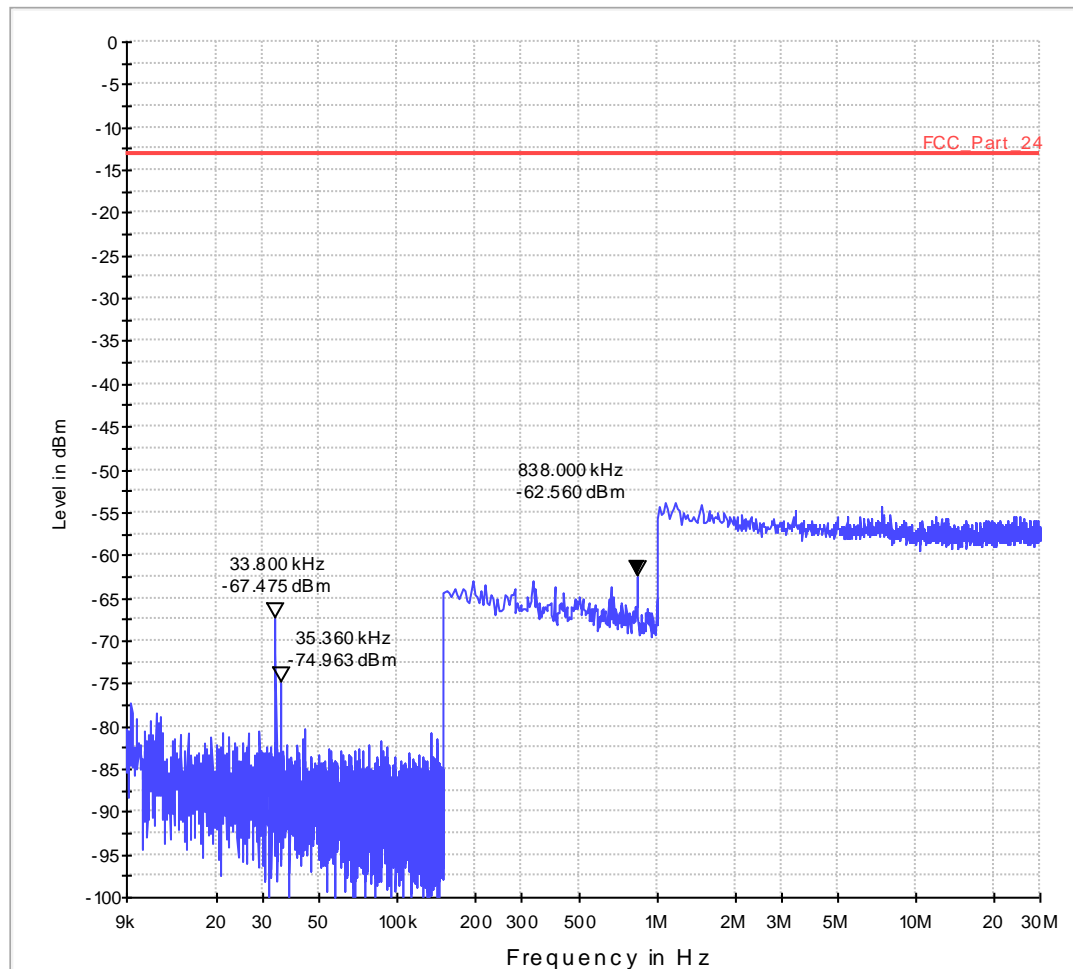


Diagram No.: 36.63_RSE_Ch9400_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9400 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

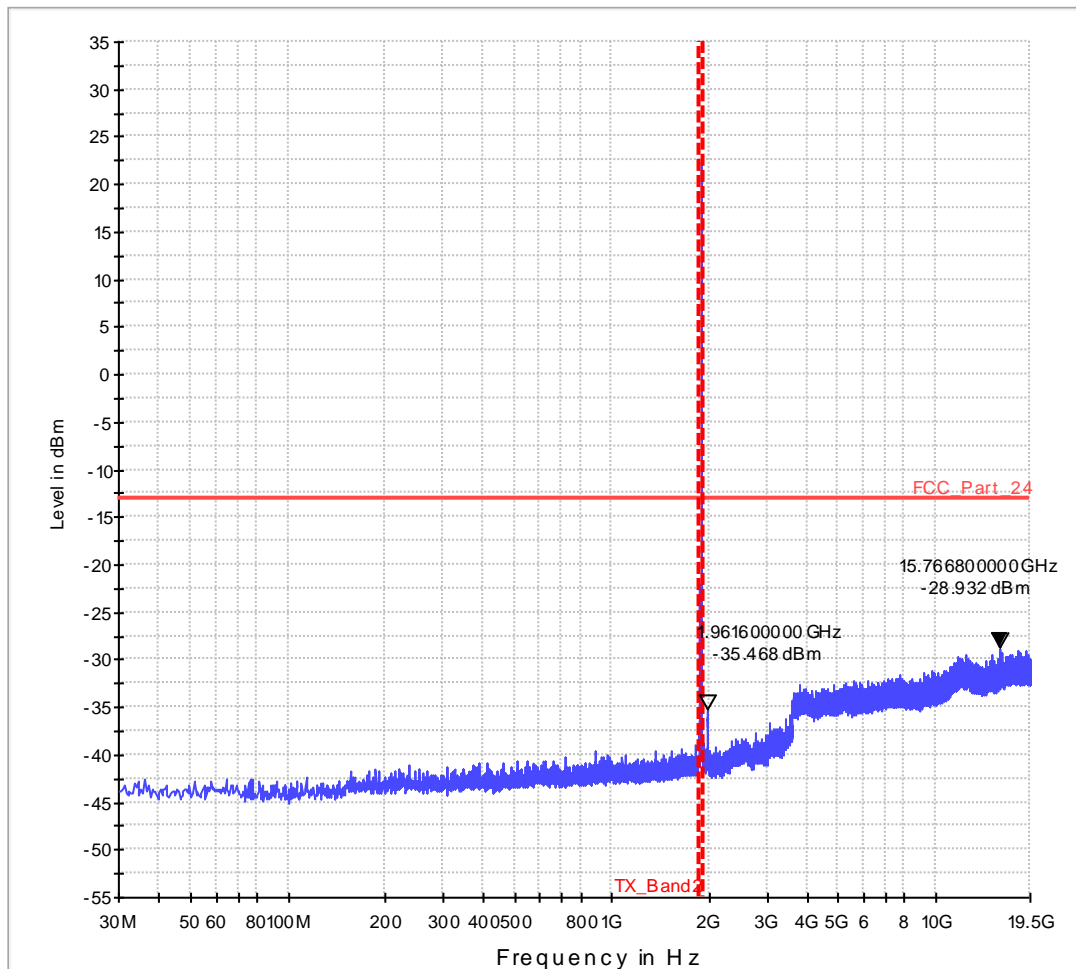


Diagram No.: 36.64_RSE_Ch9538_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9538 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

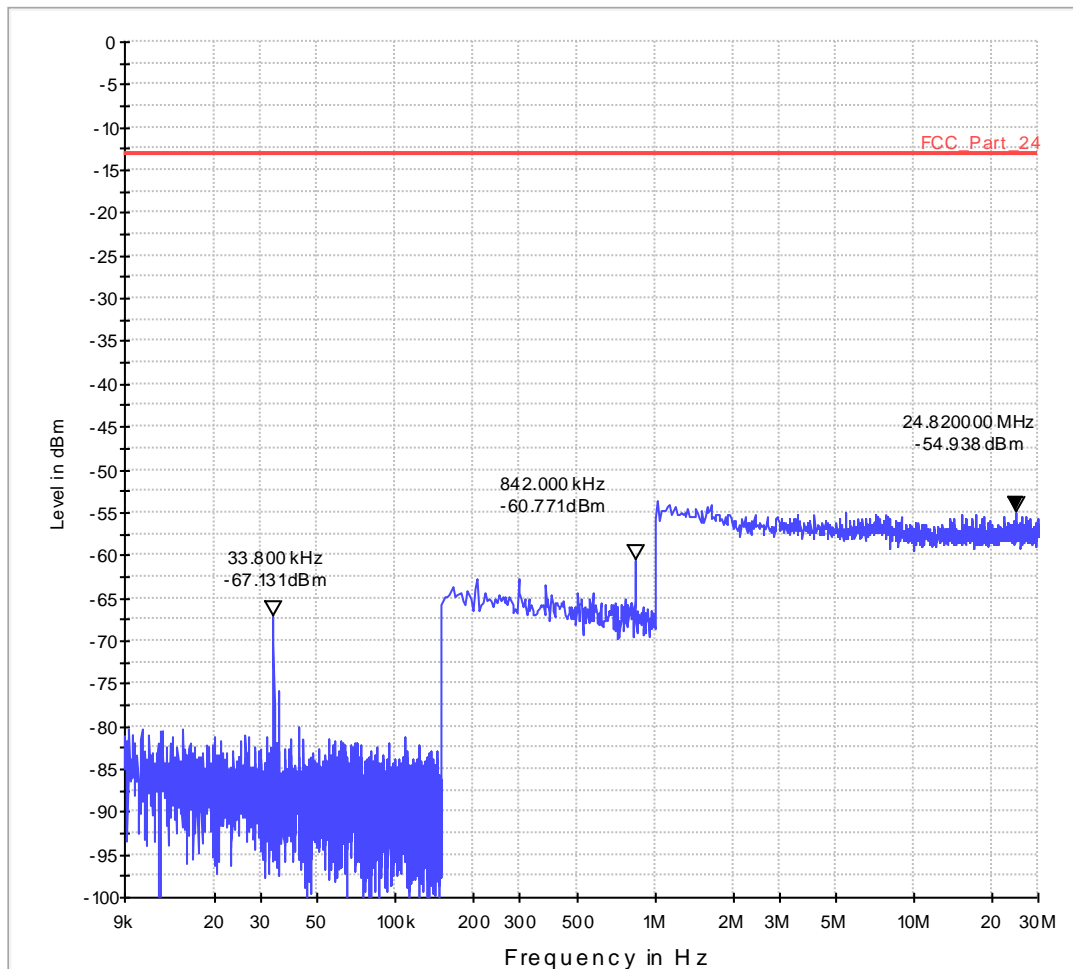


Diagram No.: 36.65_RSE_Ch9538_RMC_Sweep2

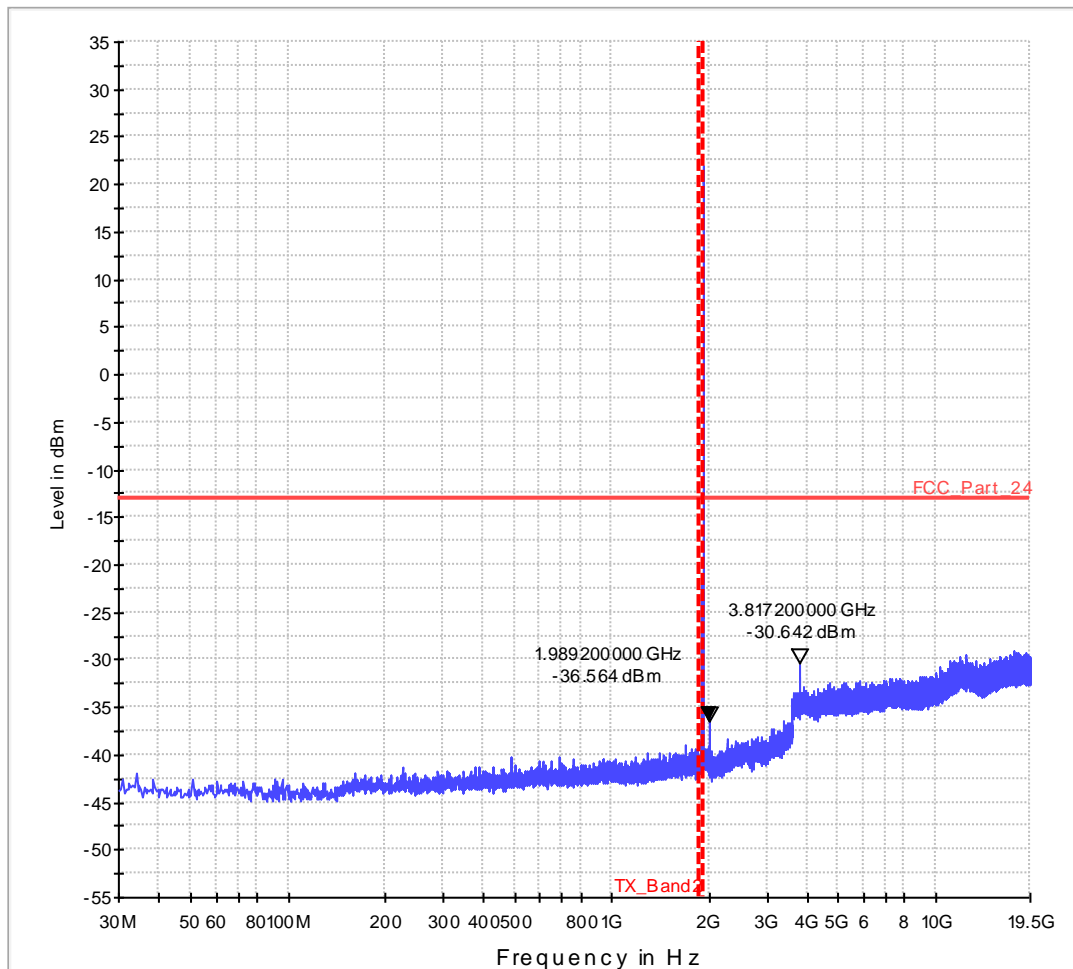
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9538 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



1.8. Spurious emissions conducted on FDD Band V

Diagram No.: 36.40_RSE_Ch4132_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan1_9kHz_30MHz

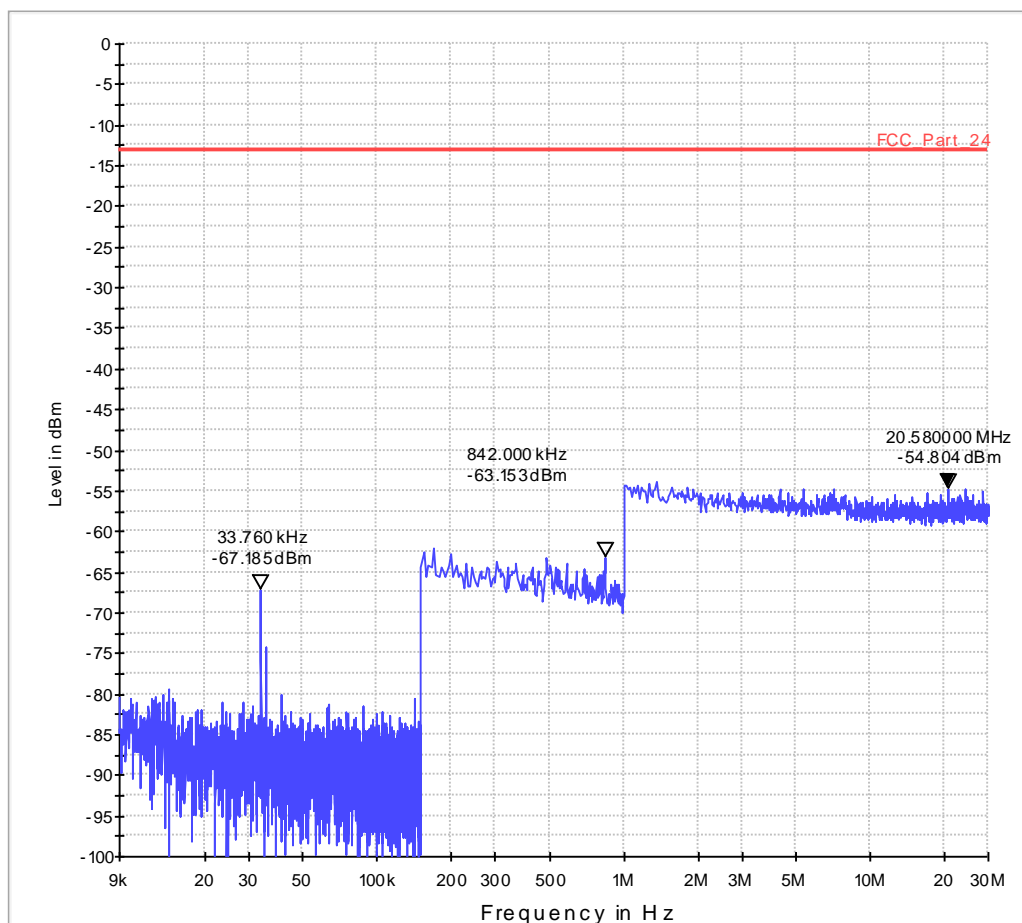


Diagram No.: 36.41_RSE_Ch4132_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan2_30MHz_9GHz

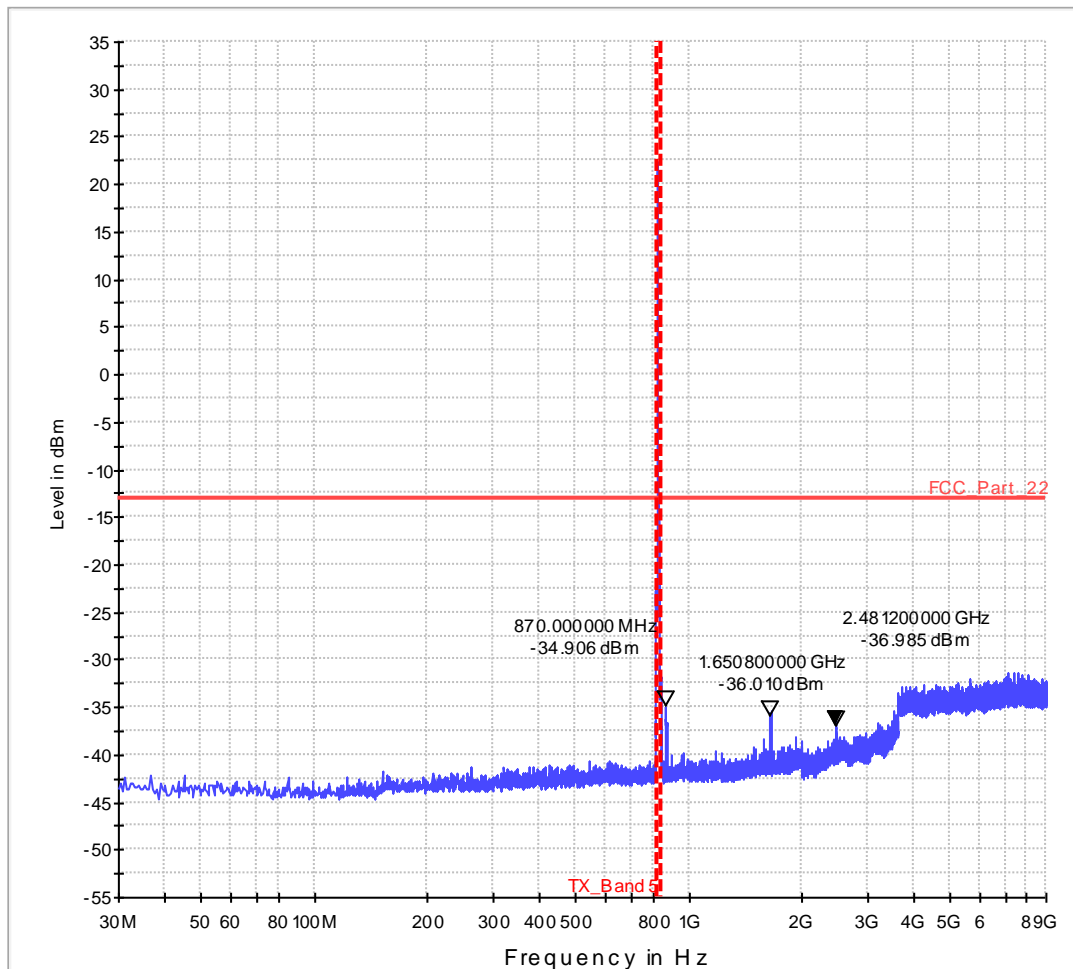


Diagram No.: 36.42_RSE_Ch4183_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4183 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan1_9kHz_30MHz

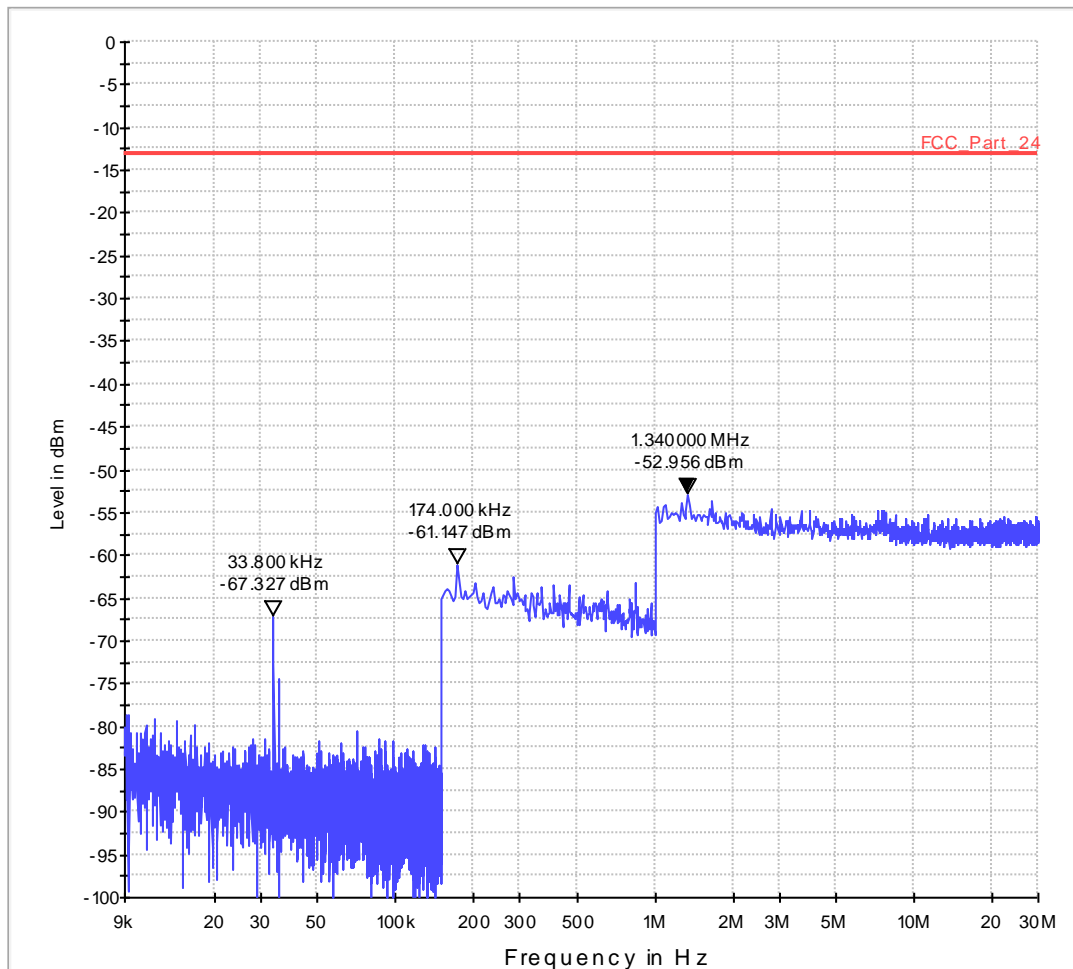


Diagram No.: 36.43_RSE_Ch4183_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4183 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan2_30MHz_9GHz

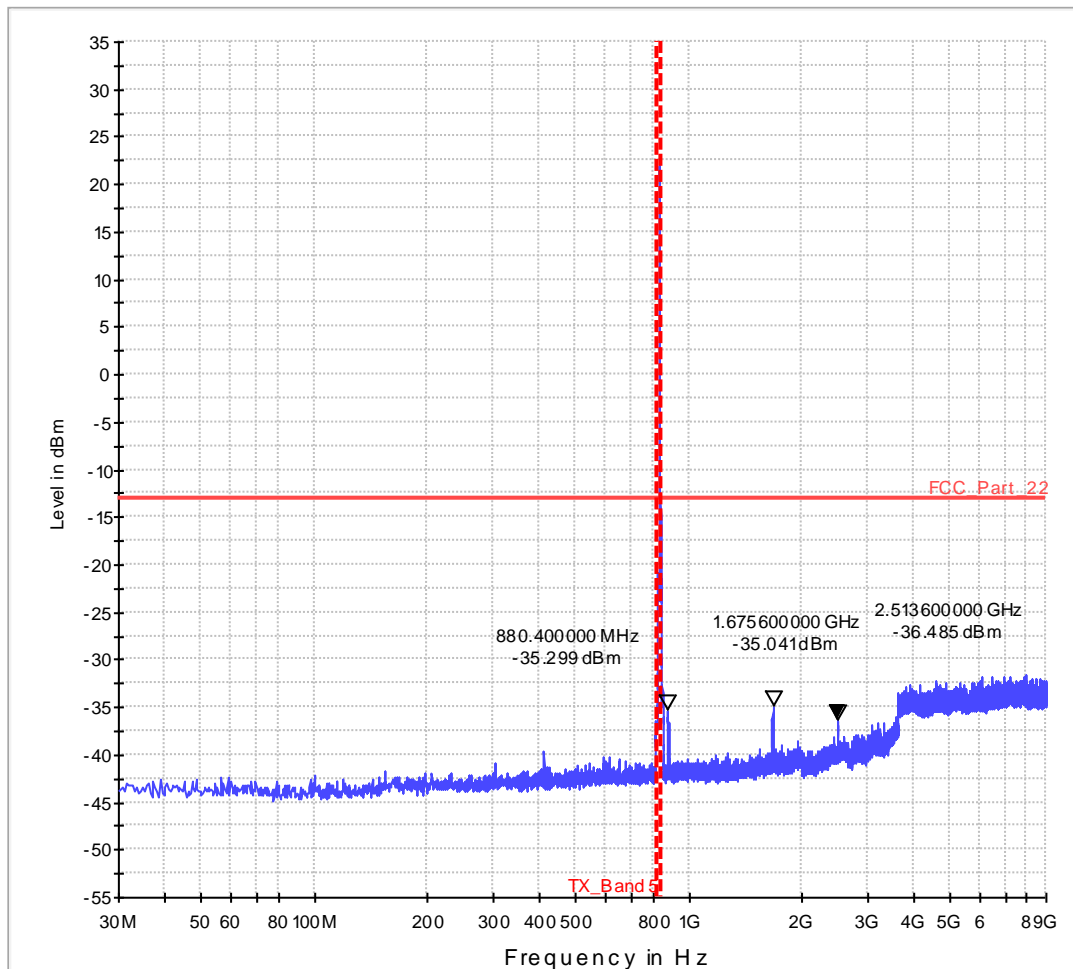


Diagram No.: 36.44_RSE_Ch4233_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan1_9kHz_30MHz

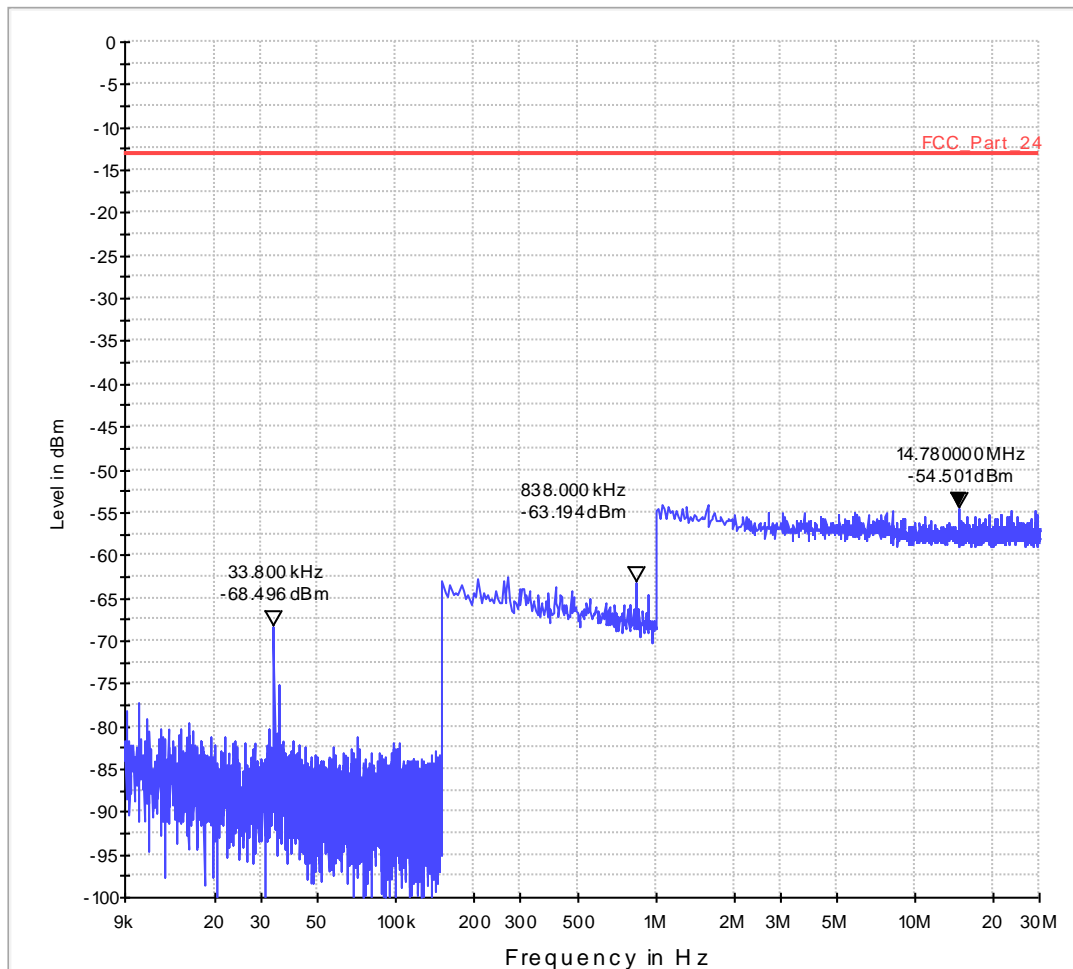


Diagram No.: 36.45_RSE_Ch4233_RMC_Sweep2

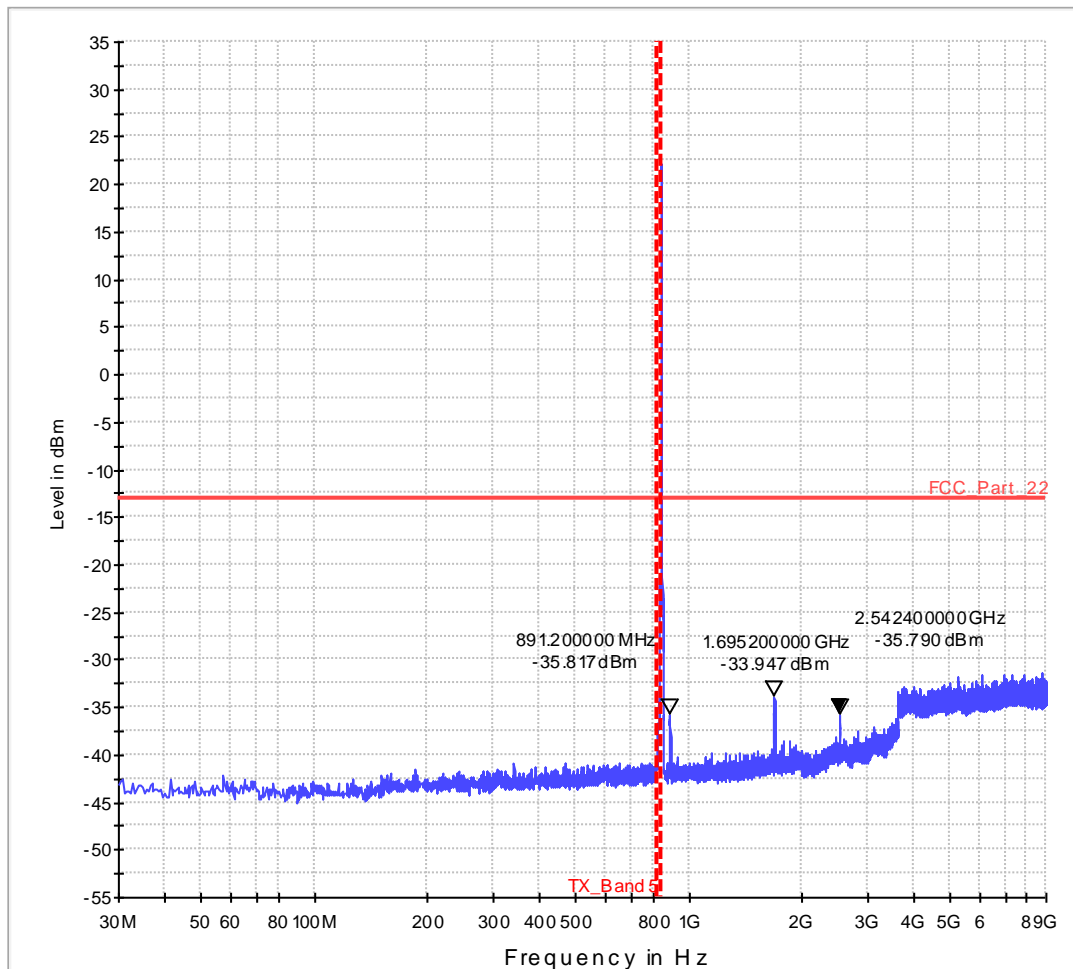
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_Scan2_30MHz_9GHz



1.9. Conducted emissions on FDD Band II band-edge

Diagram No.: 37.60_BE_Ch9262_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_BE_LOW_9262

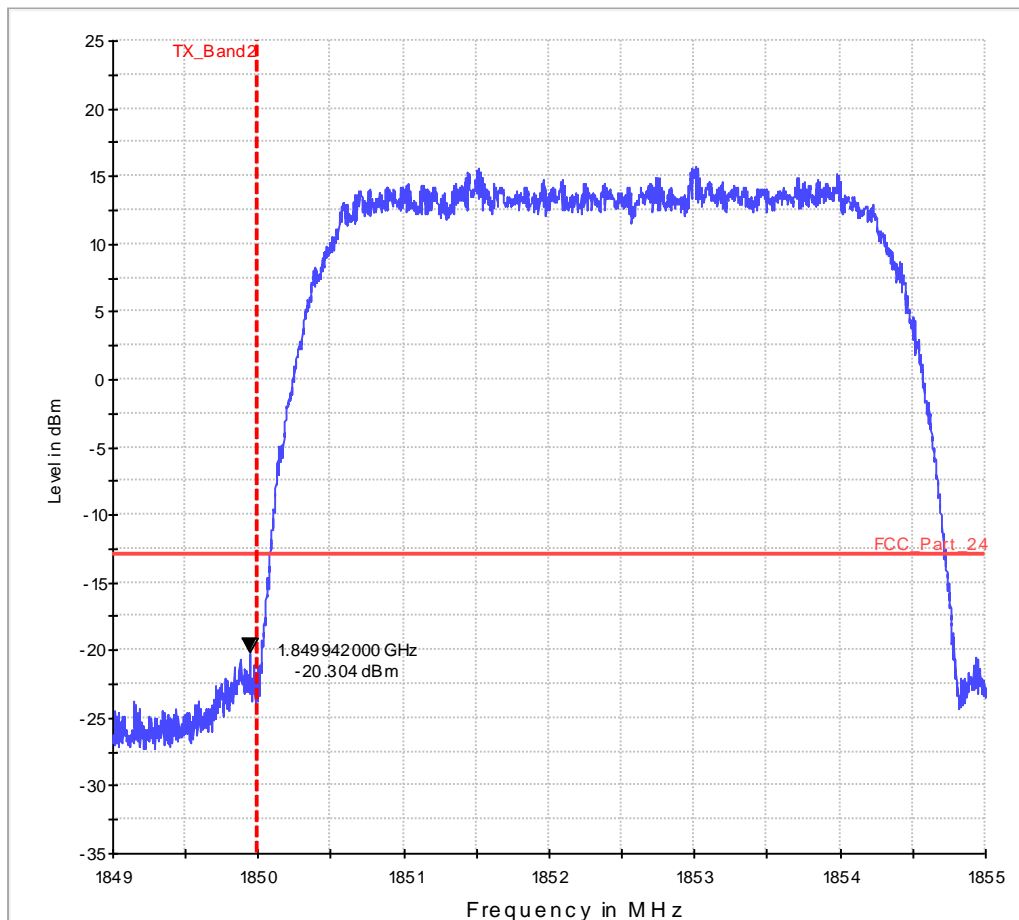


Diagram No.: 37.61_BE_Ch9538_RMC_PK

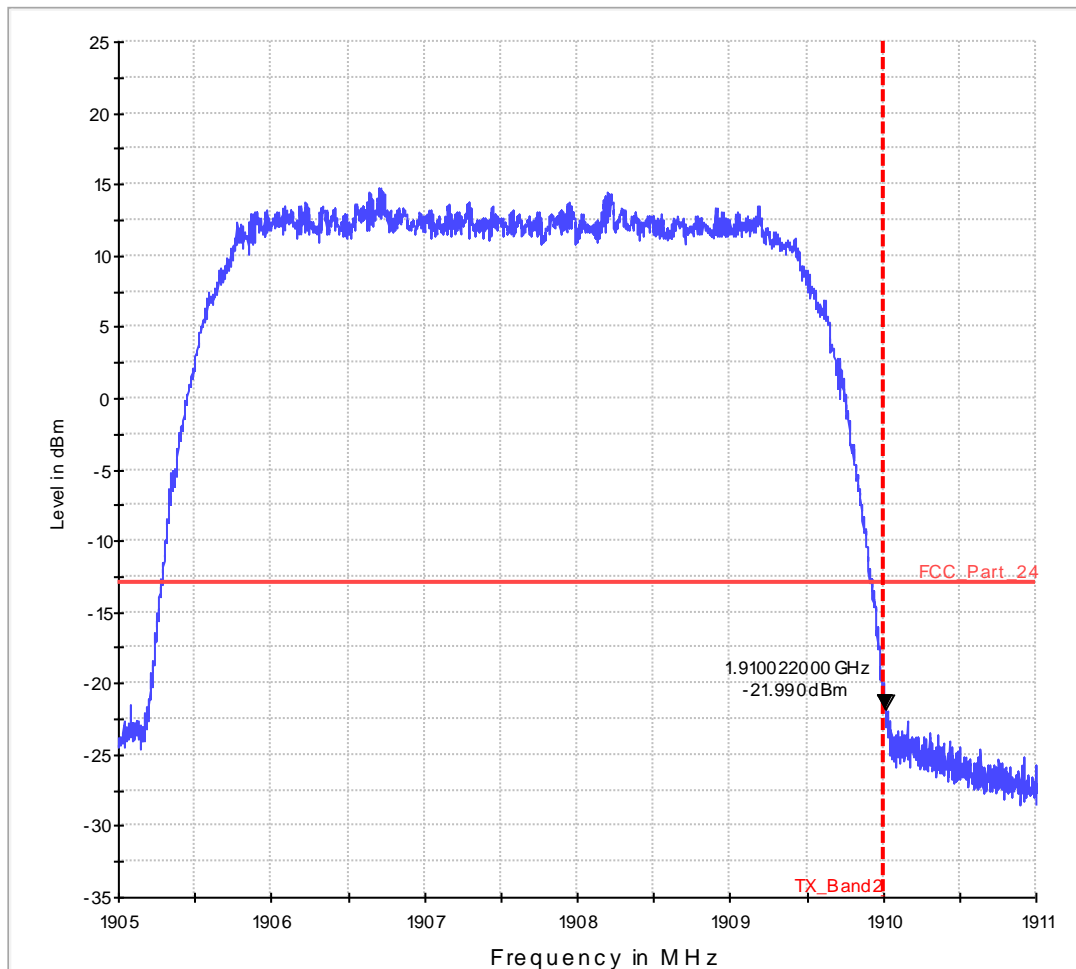
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B2 (RMC), Channel 9538 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_24_BE_High_9538



1.10. Conducted emissions on FDD Band V band-edge

Diagram No.: 37.40_BE_Ch4132_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_BE_LOW_4132

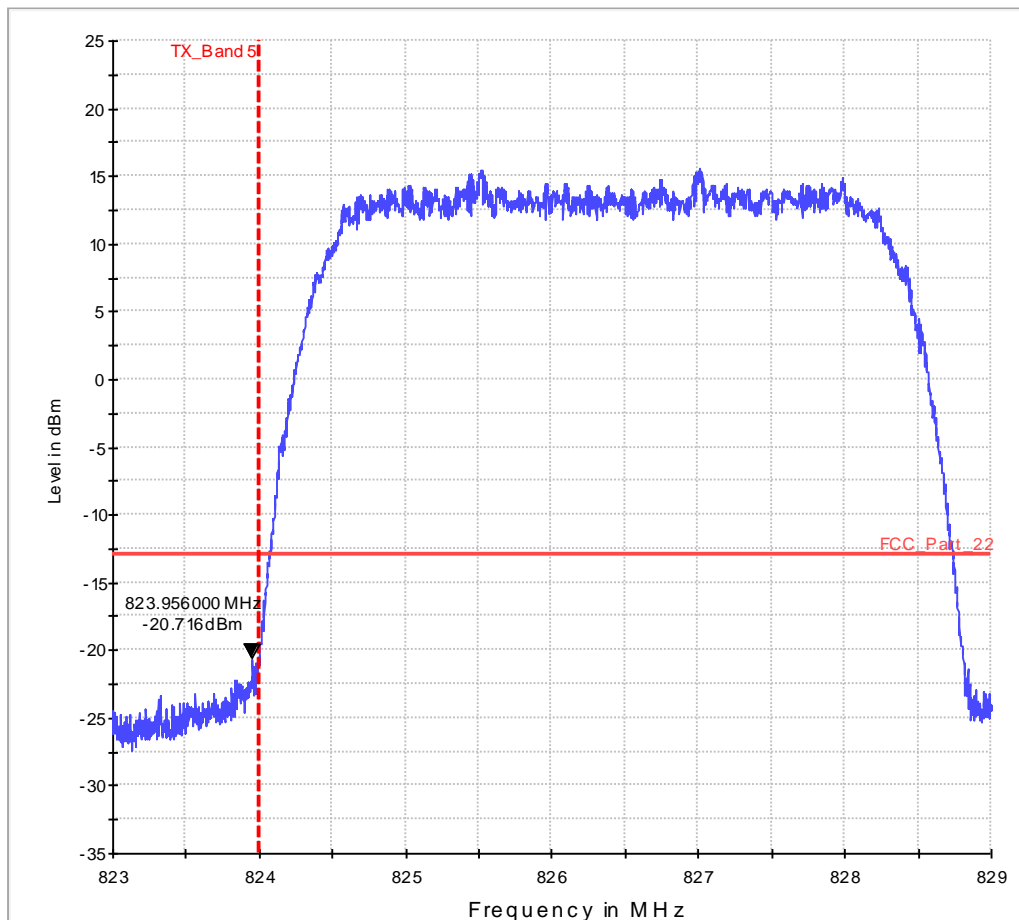


Diagram No.: 37.41_BE_Ch4233_RMC_PK

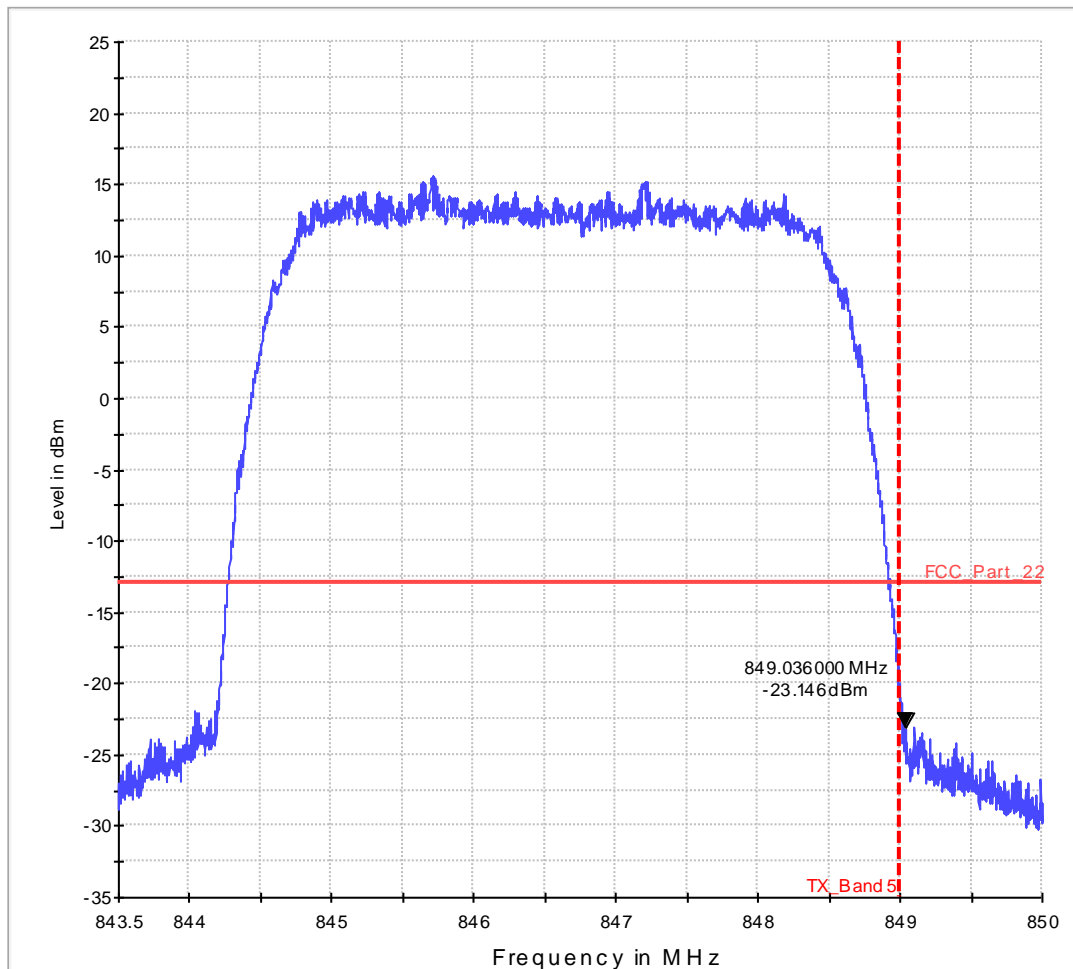
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22&24&27 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Channel Bandwidth | -- |
| Operator | npe |
| Comment: | -- |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | |
| Power Supply: | |

Fula2_FCC_22_BE_High_4233



1.11. Magnetic field strength measurements

1.11.1. FDD Band 2

Diagram No. 2.01_Ch9262_FDDII

| | |
|--------------------------|---|
| Test description: | Date: 05.05.2015 Page 1 of 1 |
| Test site and distance: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Distance correction: | EMC32 V8.51.0 |
| Technical Data: | used accord. table, pls. see test report |
| Rec. antenna (pre-scan): | Please see page 2 for detailed data of measurement setup |
| Used filter: | height 1.00 m, parallel and 90° to EUT polarisation |
| Test specification: | bypass |
| | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 |
| Operator: | HLa |
| Operating conditions: | WCDMA FDDII RMC TX, channel : 9262 |
| Power during tests: | 3,8V DC |
| Comment 1: | Channel low |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | ----- |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | |

FCC 15.209_ANSI63_10_2013

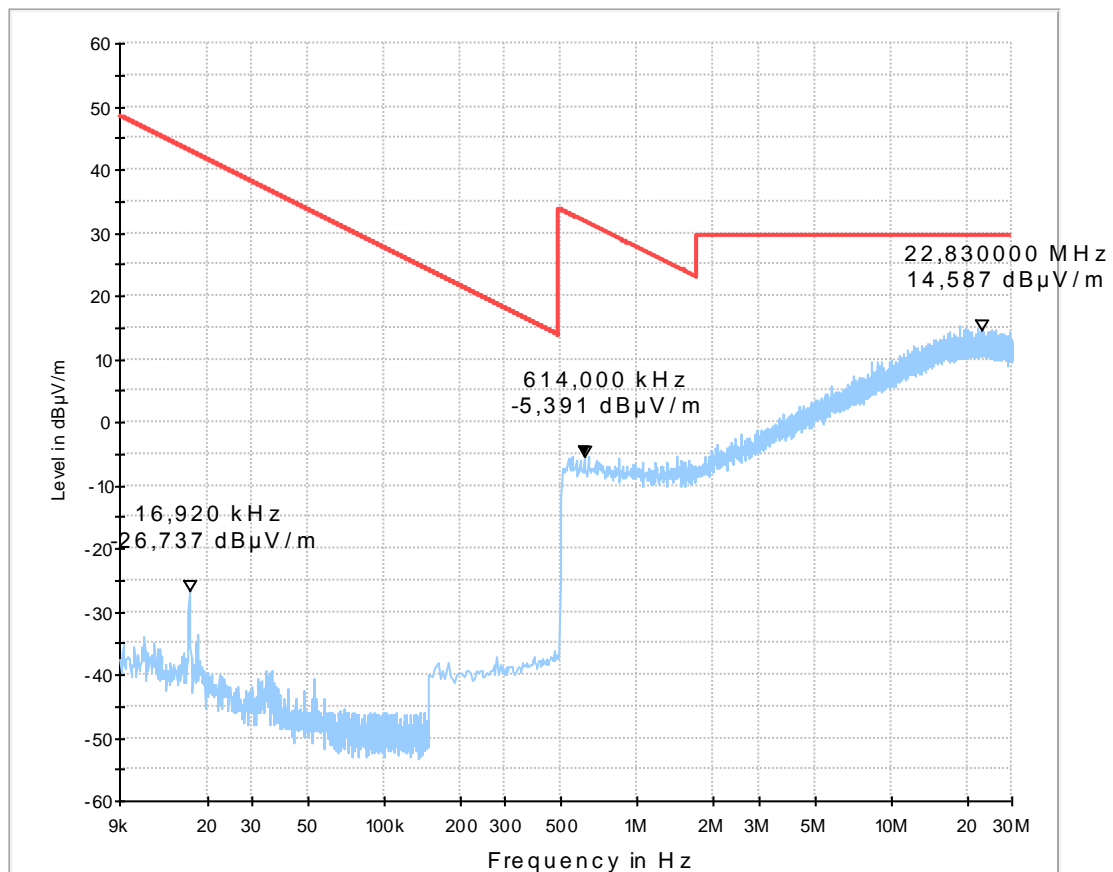


Diagram No. 2.02_Ch9400_FDDII

| | | |
|--------------------------|---|-------------|
| Date: | 05.05.2015 | Page 1 of 1 |
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance | |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance | |
| Version of Testsoftware: | EMC32 V8.51.0 | |
| Distance correction: | used accord. table, pls. see test report | |
| Technical Data: | Please see page 2 for detailed data of measurement setup | |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation | |
| Used filter: | bypass | |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 | |
| Operator: | XXX | |
| Operating conditions: | TX-on | |
| Power during tests: | 12V DC, 110V/60Hz, full loaded batteries | |
| Comment 1: | Channel low/middle/high | |
| Comment 2: | | |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | |

FCC 15.209_ANSI63_10_2013

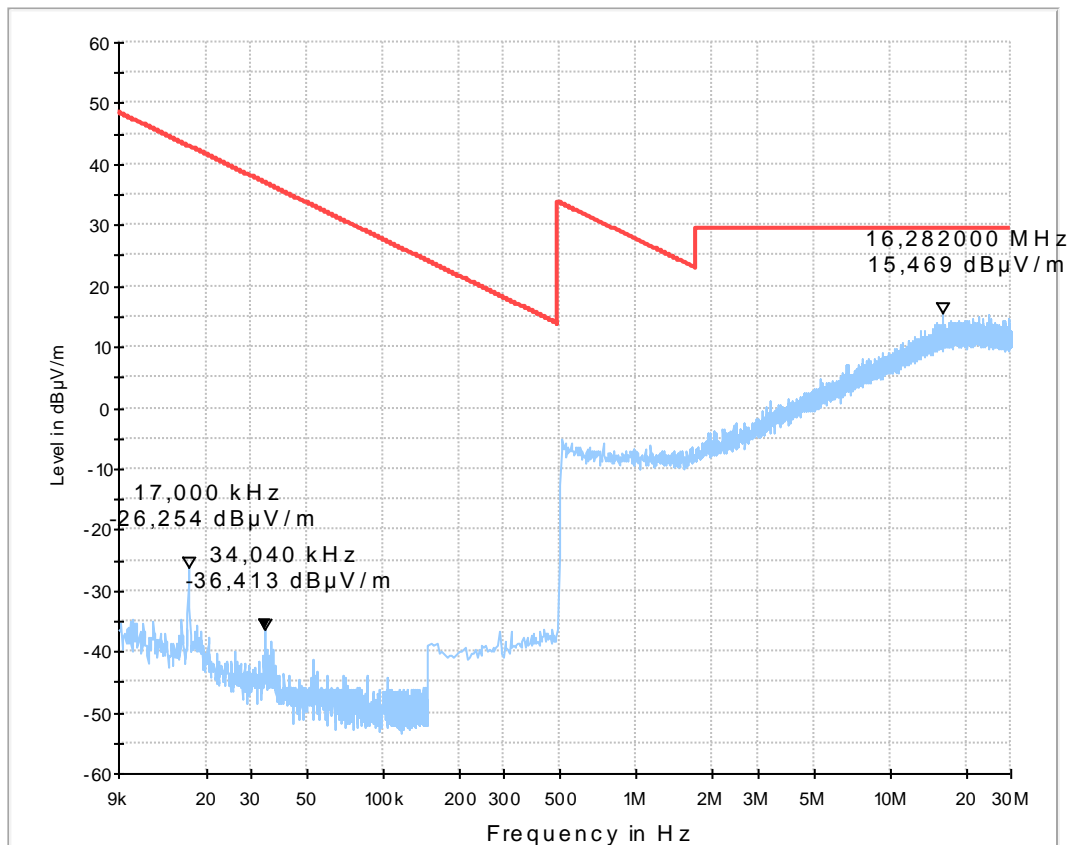


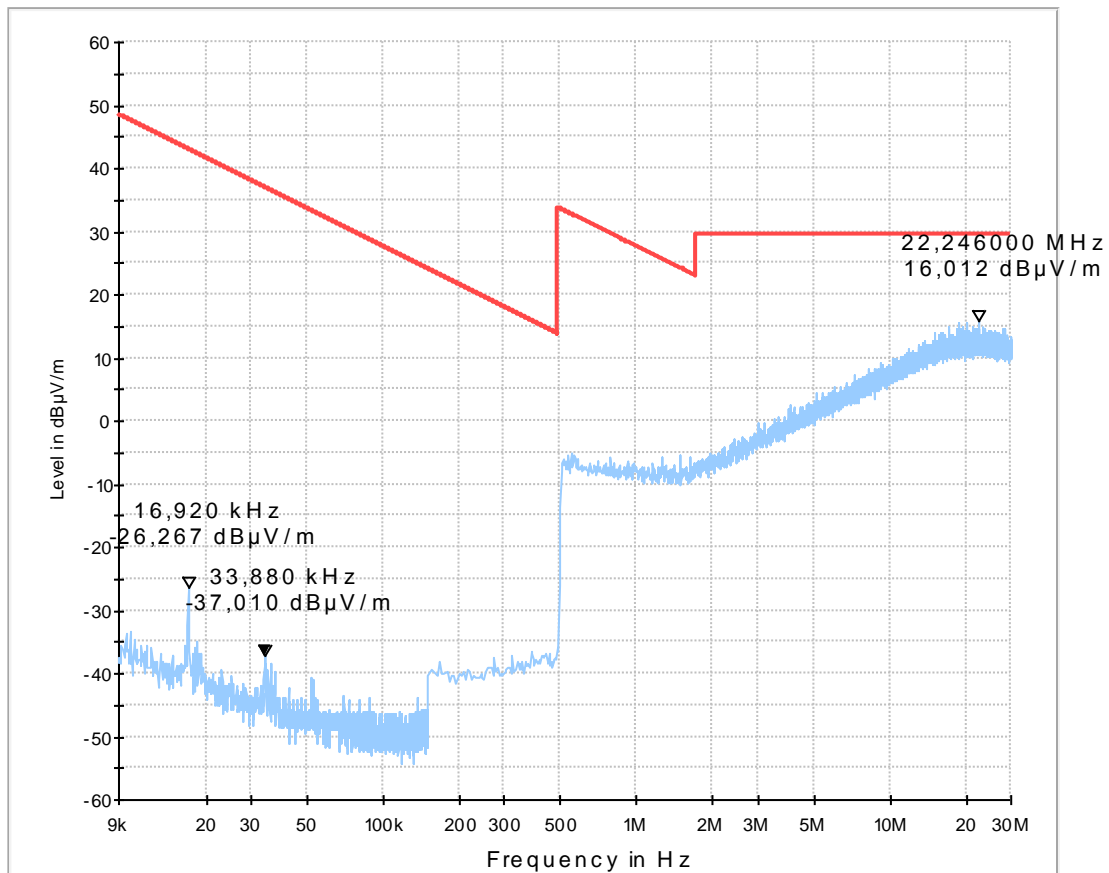
Diagram No. 2.03_Ch9538_FDDII

| | | |
|--------------------------|---|-------------|
| Date: | 05.05.2015 | Page 1 of 1 |
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance | |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance | |
| Version of Testsoftware: | EMC32 V8.51.0 | |
| Distance correction: | used accord. table, pls. see test report | |
| Technical Data: | Please see page 2 for detailed data of measurement setup | |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation | |
| Used filter: | bypass | |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 | |
| Operator: | HLa | |
| Operating conditions: | WCDMA FDDII RMC TX, channel : 9538 | |
| Power during tests: | 3,8V DC | |
| Comment 1: | | |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | |

FCC 15.209_ AN S I63_10_2013



1.11.2. FDD Band 5

Diagram No. 2.04_Ch4132_FDDV

| | |
|--------------------------|---|
| Date: 05.05.2015 | Page 1 of 1 |
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V8.51.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 |
| Operator: | HLa |
| Operating conditions: | WCDMA FDDV RMC TX, channel : 4132 |
| Power during tests: | 3,8V DC |
| Comment 1: | |

EUT Information

| | |
|-----------------------|---------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | AC Adaptor Ktec Model:KSA0151200125D5 |

FCC 15.209_ANSI63_10_2013

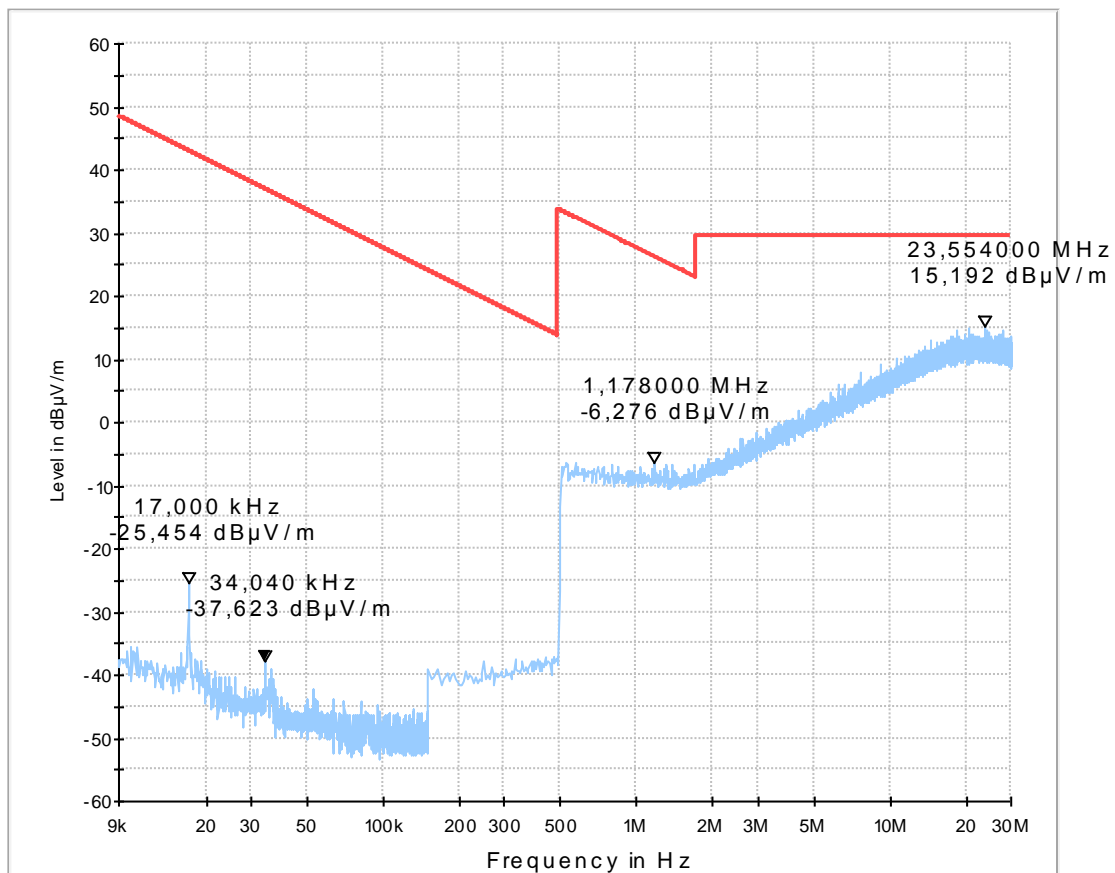


Diagram No. 2.05_Ch4183_FDDV

| | | |
|--------------------------|---|-------------|
| Date: | 05.05.2015 | Page 1 of 1 |
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance | |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance | |
| Version of Testsoftware: | EMC32 V8.51.0 | |
| Distance correction: | used accord. table, pls. see test report | |
| Technical Data: | Please see page 2 for detailed data of measurement setup | |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation | |
| Used filter: | bypass | |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 | |
| Operator: | HLa | |
| Operating conditions: | WCDMA FDDV RMC TX, channel : 4183 | |
| Power during tests: | 3,8V DC | |
| Comment 2: | | |

EUT Information

| | |
|-----------------------|--------------------------------------|
| Manufacturer: | Telit |
| EuT: | UE866-N3G/ TEL0020AB1d |
| ----- | |
| HW Version: | A |
| SW Version: | stream_UE866_N3G_6255-12.00.805-B047 |
| Serial Number: | IMEI 359335059003548 |
| Connected Interfaces: | USB Cable, Antenna T-AT314-BU |
| Power Supply: | |

FCC 15.209_ AN S I 63_ 10_ 2013

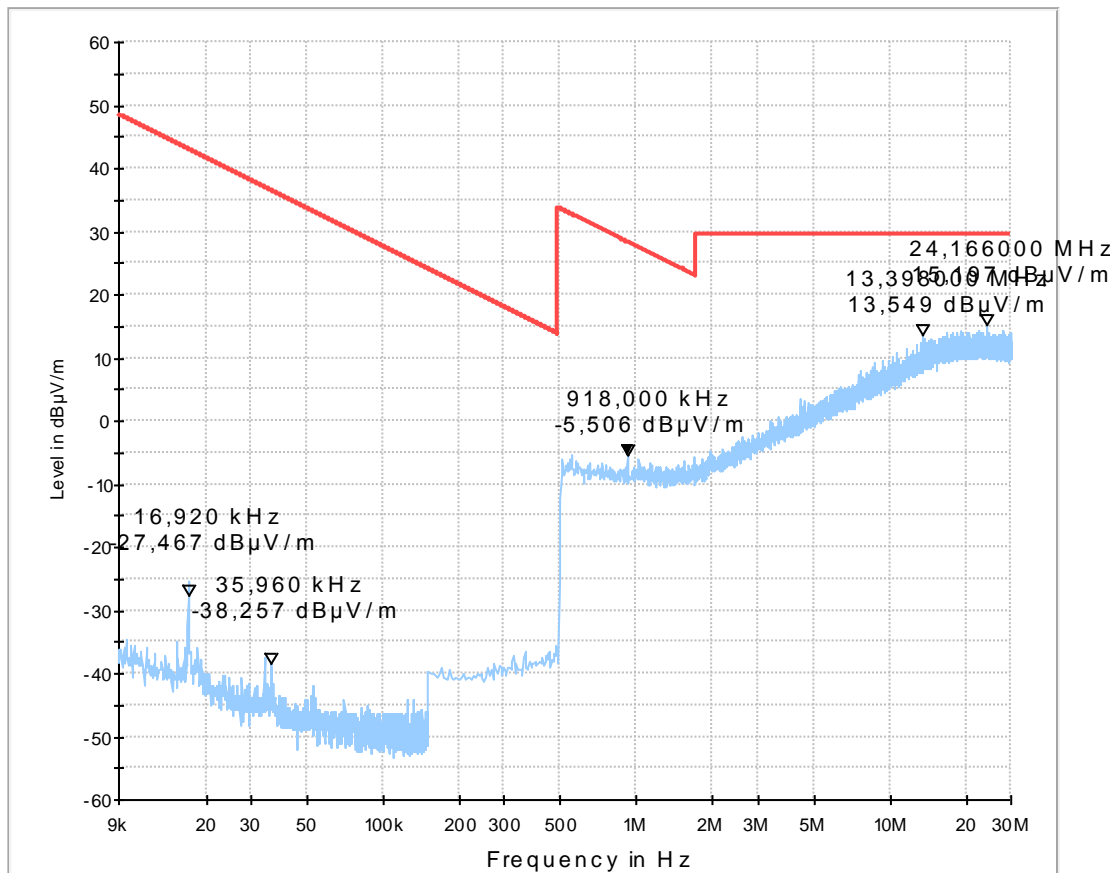
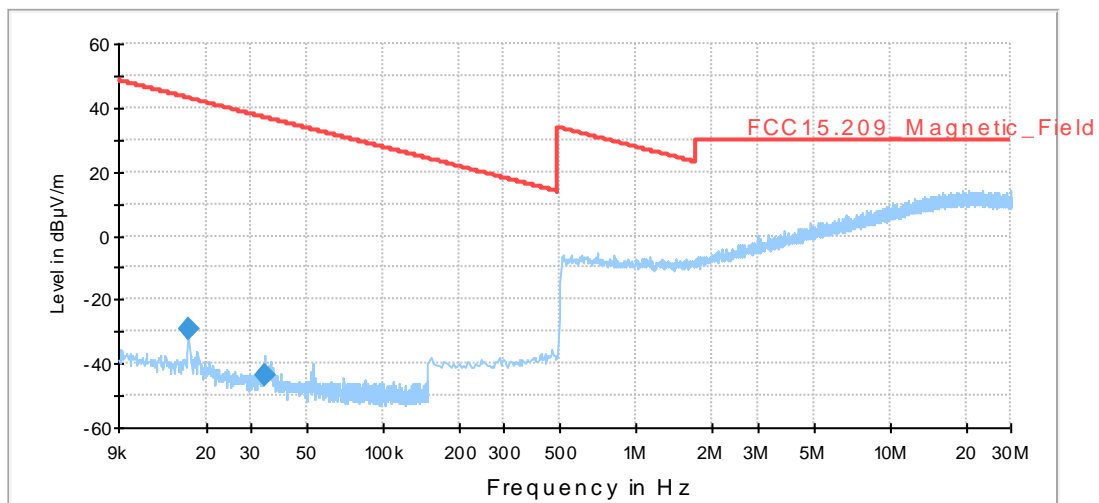


Diagram No. 2.06_Ch4233_FDDV

| | | |
|--------------------------|---|-------------|
| Date: | 06.05.2015 | Page 1 of 1 |
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance | |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance | |
| Version of Testsoftware: | EMC32 V8.51.0 | |
| Distance correction: | used accord. table, pls. see test report | |
| Technical Data: | Please see page 2 for detailed data of measurement setup | |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation | |
| Used filter: | bypass | |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013 | |
| Operator: | HLa/Lor | |
| Operating conditions: | TX-on, RMC99 | |
| Power during tests: | 3.8 V DC | |
| Comment 1: | Channel high=4233 | |

FCC 15.209_ ANS I63_ 10_ 2013



Final Result 1

| Frequency (MHz) | RMS (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 0.017000 | -29.4 | 1000.0 | 0.200 | 100.0 | H | 144.0 | -58.7 | 72.40 | 43.00 |
| 0.033960 | -43.7 | 1000.0 | 0.200 | 100.0 | H | 260.0 | -59.5 | 80.70 | 37.00 |

(continuation of the "Final Result 1" table from column 10 ...)

| Frequency | Comment |
|-----------|---------|
| 0.017000 | |
| 0.033960 | |