

Annex 1: Measurement diagrams
to
TEST REPORT
No.: 20835060b/15-C1

According to
FCC Regulations:
Part 22, Part 24, Part 27

IC-Regulations:
RSS-132 Issue 3
RSS-133 Issue 6
RSS-139, Issue 2
RSS-Gen Issue 4

for

Gemalto M2M GmbH

Wireless Module PLS8-X
FCC-ID: QIPPLS8-X
IC: 7830A-PLS8X
PMN: Cinterion PLS8-X, HVIN: PLS8-X







| Laboratory Accreditation and Listings | | | |
|---|---|--|--|
|  DAkks 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 style="text-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)

8.43_CH9262_RMC

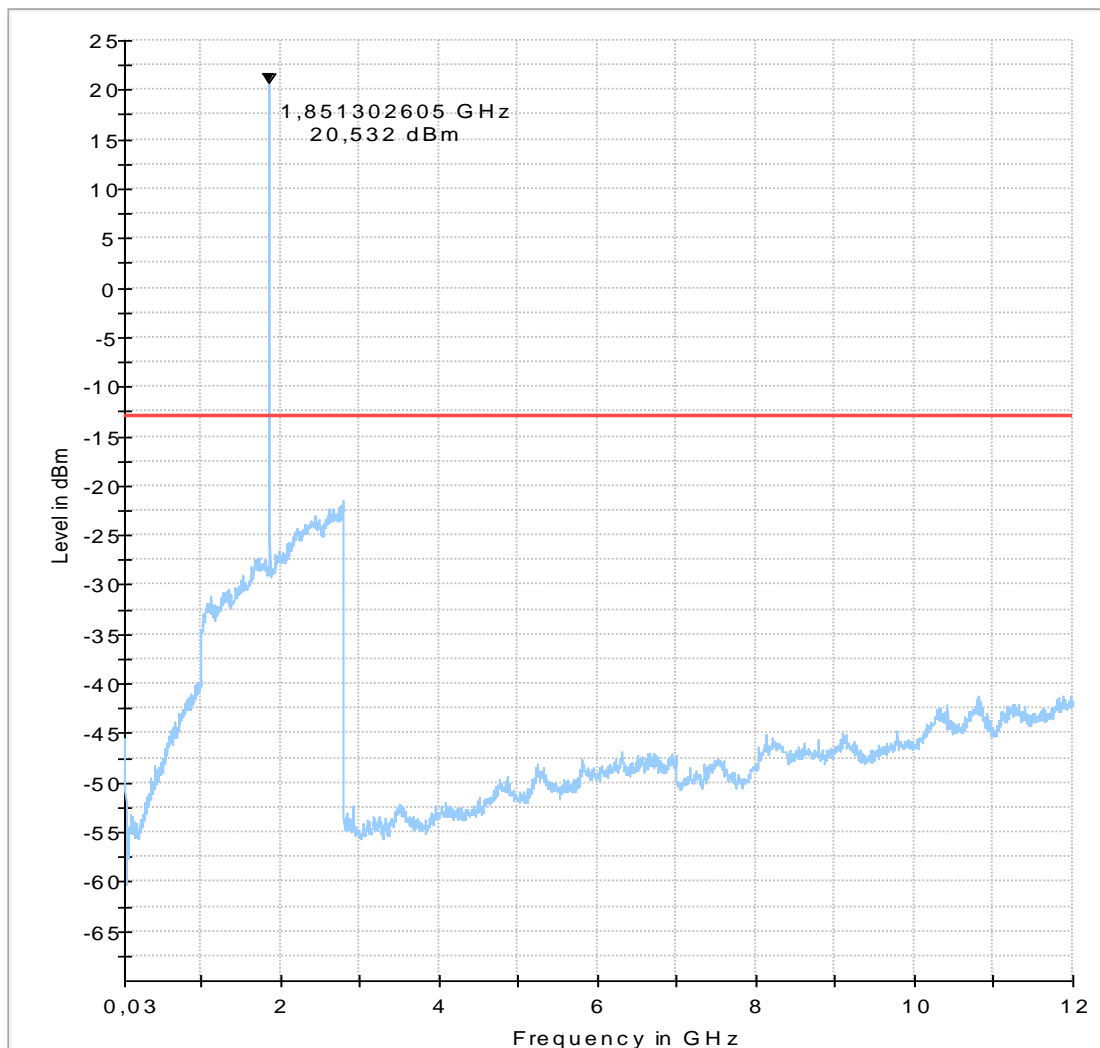
Common Information

| | |
|---------------------------|---|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| Operating Mode: | UE allocated channel 9262 (fc = 1852.4 MHz) |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 25C |
| Operator: | kRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.43a_CH9262_RMC

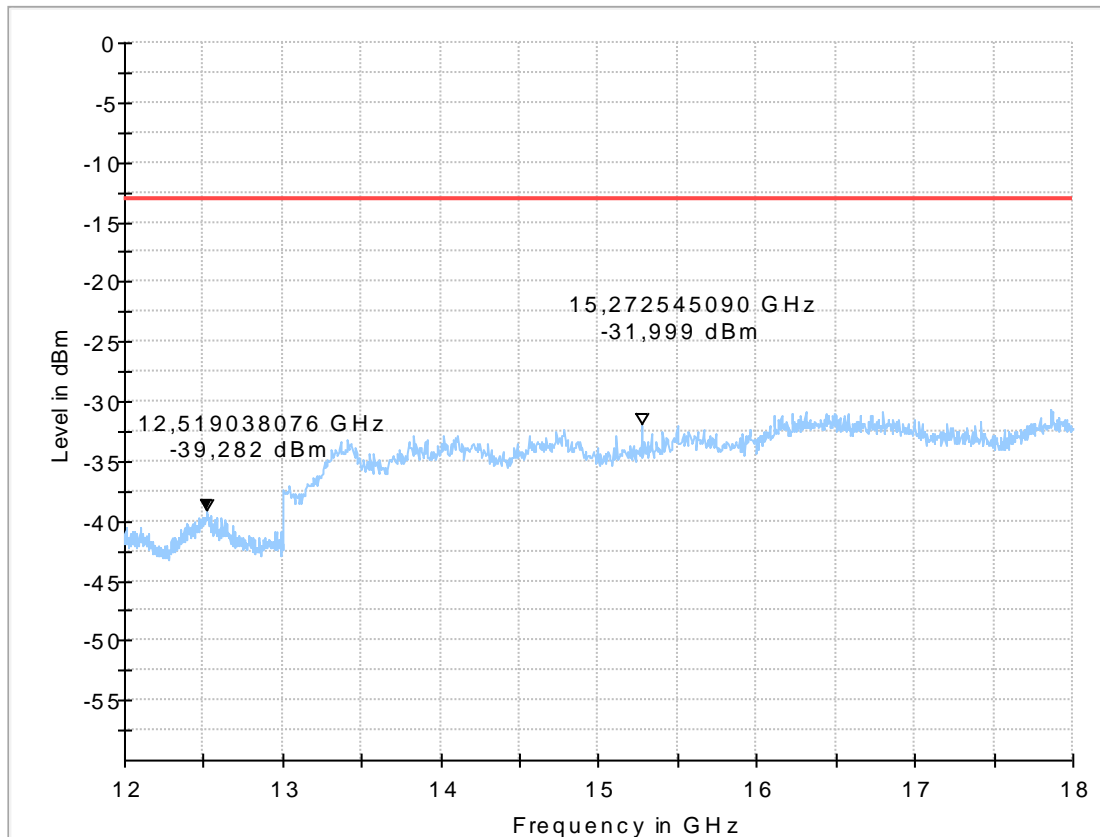
Common Information

| | |
|---------------------------|---|
| 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 = 1852.4) |
| Environmental Conditions: | Humidity: 33%rH; Temperature:25°C |
| Operator: | AHo |
| Comments: | 12-18GHz |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.44_CH9400_RMC

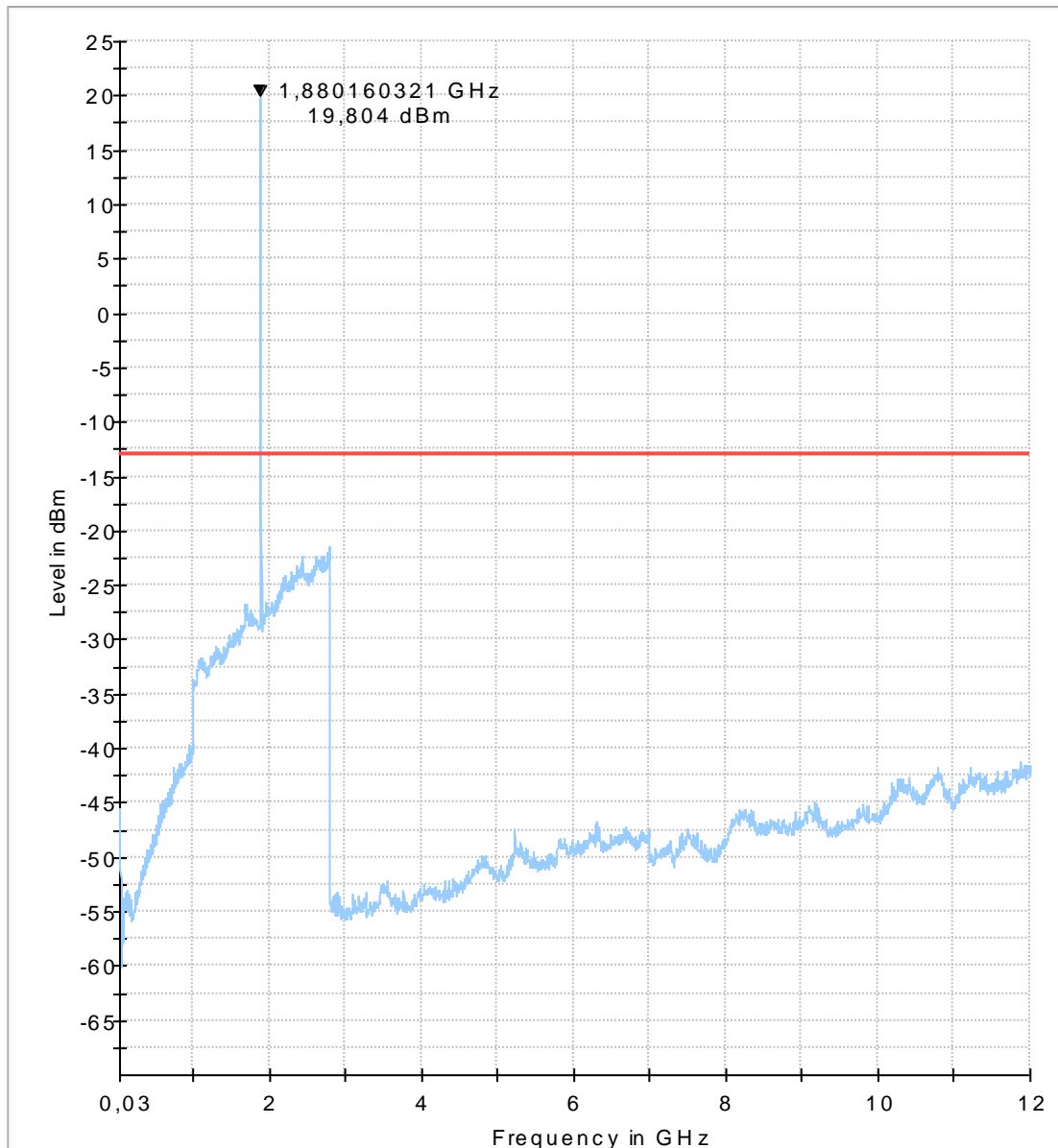
Common Information

| | |
|---------------------------|---|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| Operating Mode: | UE allocated channel 9400 (fc = 1880.0 MHz) |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 25C |
| Operator: | kRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.44a_CH9400_RMC

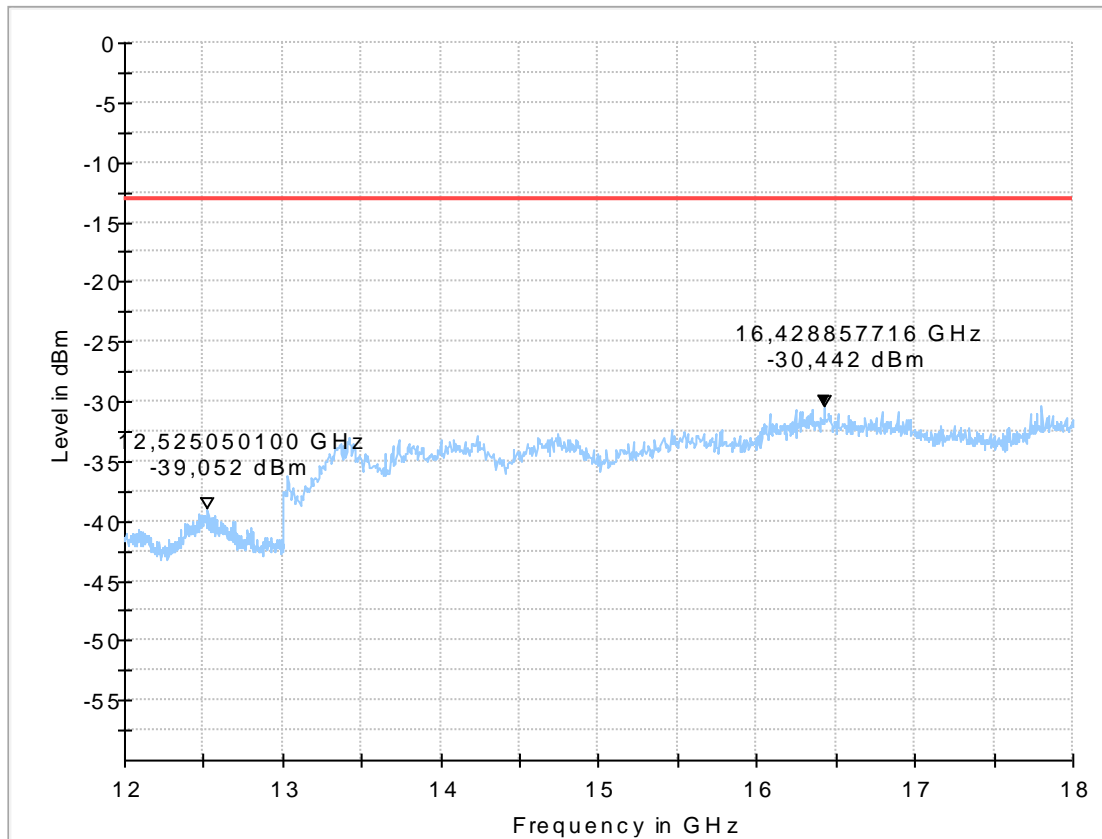
Common Information

| | |
|---------------------------|---|
| 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 = 1852.4) |
| Environmental Conditions: | Humidity: 33%rH; Temperature:25°C |
| Operator: | AHo |
| Comments: | 12-18GHz |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.45_CH9538_RMC

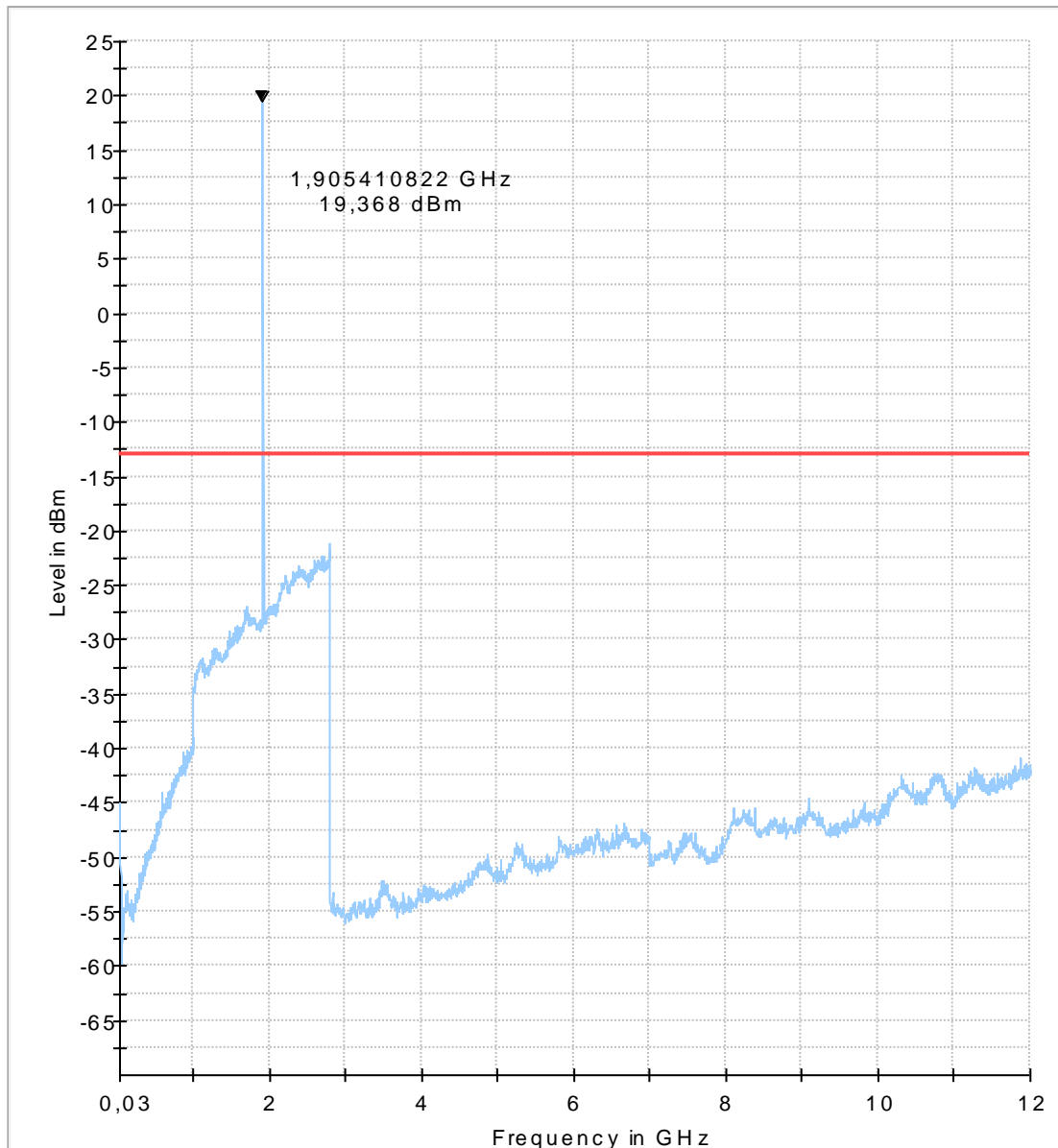
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| Operating Mode: | UE allocated channel 9538 (fc = 1907.6 MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 24C |
| Operator: | kRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.45a_CH9538_RMC

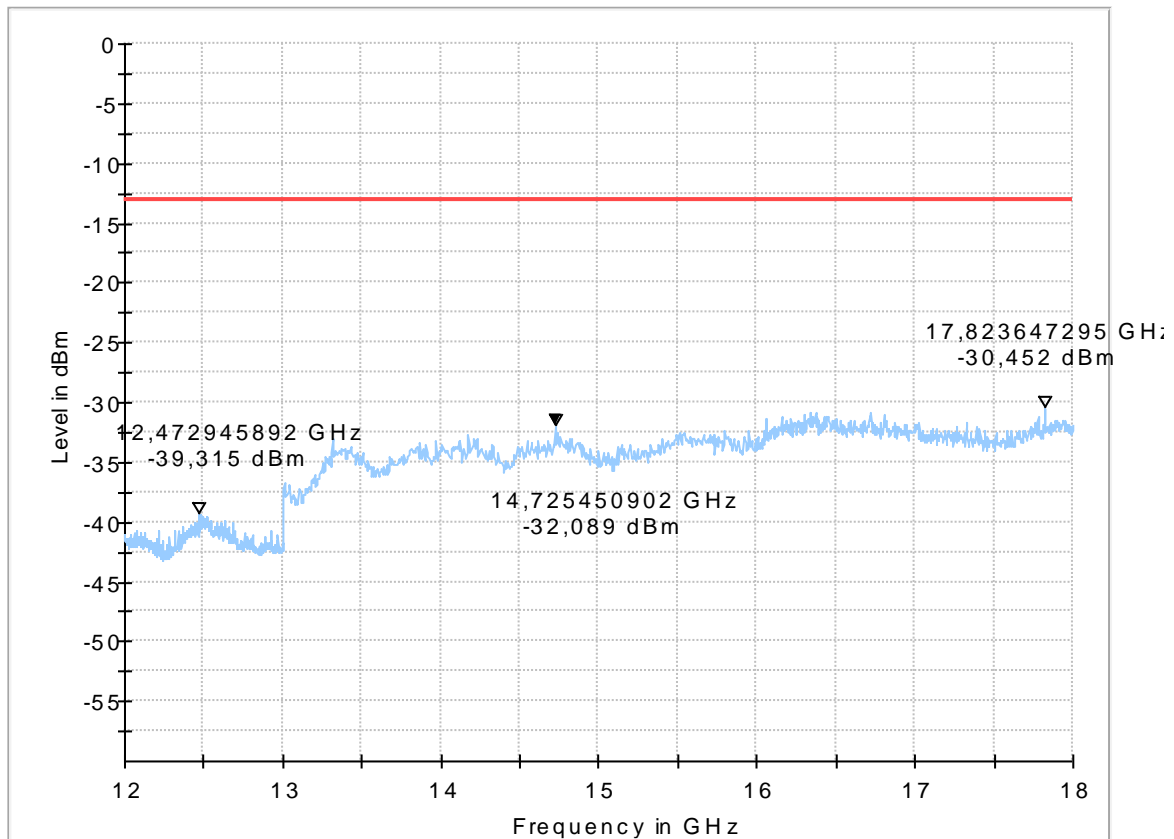
Common Information

| | |
|---------------------------|---|
| 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 = 1852.4) |
| Environmental Conditions: | Humidity: 33%rH; Temperature:25°C |
| Operator: | AHo |
| Comments: | 12-18GHz |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



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

8.46_CH1312_RMC

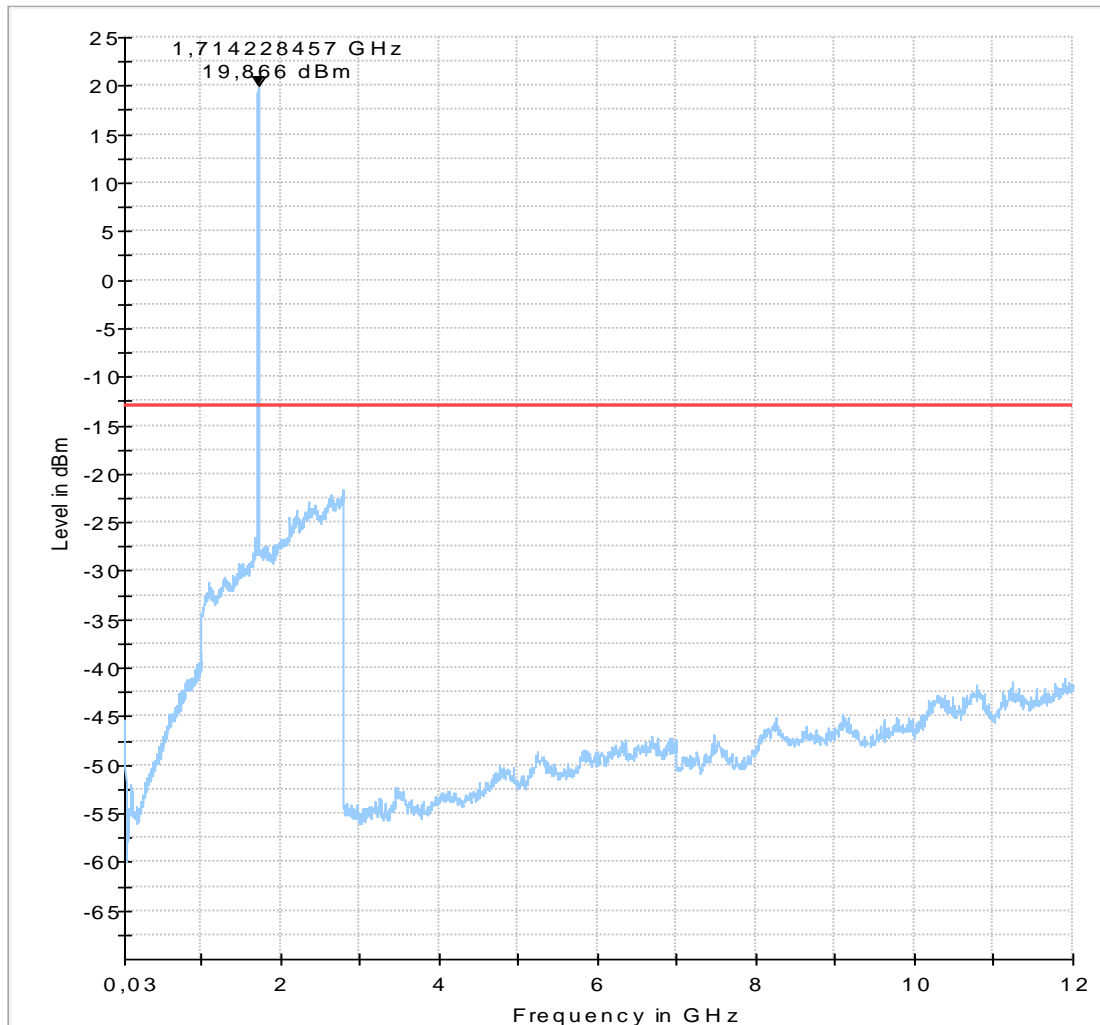
Common Information

| | |
|---------------------------|---|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1312 (fc = 1712,4) |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | KRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



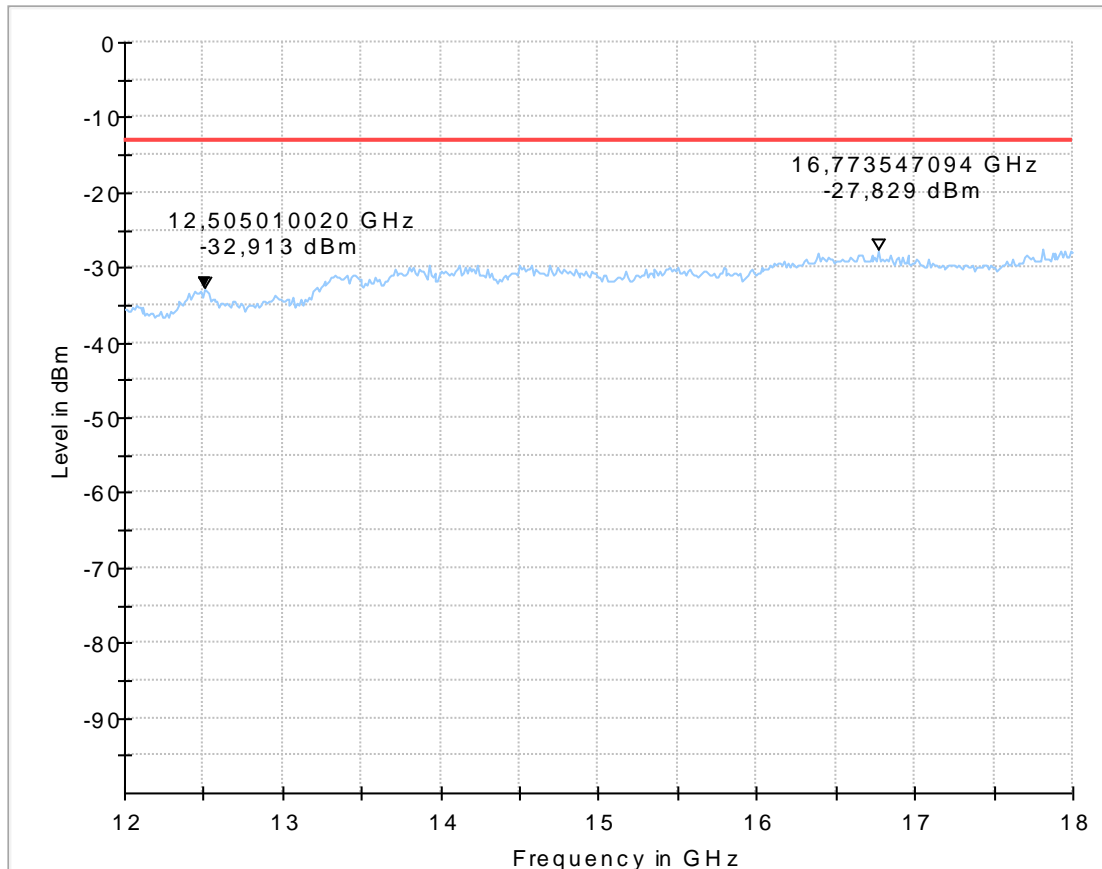
8.46a_CH1312_RMC

Common Information

| | |
|--------------------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Operating Conditions: | CETECOM GmbH Essen |
| Test Site: Fully Anechoic Room (FAR) | Fully Anechoic Room (FAR) |
| Operating Mode: | FCC Part 27 / RSS-139, Issue 2 |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator Name: | AHo |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |



8.47_CH1450_RMC

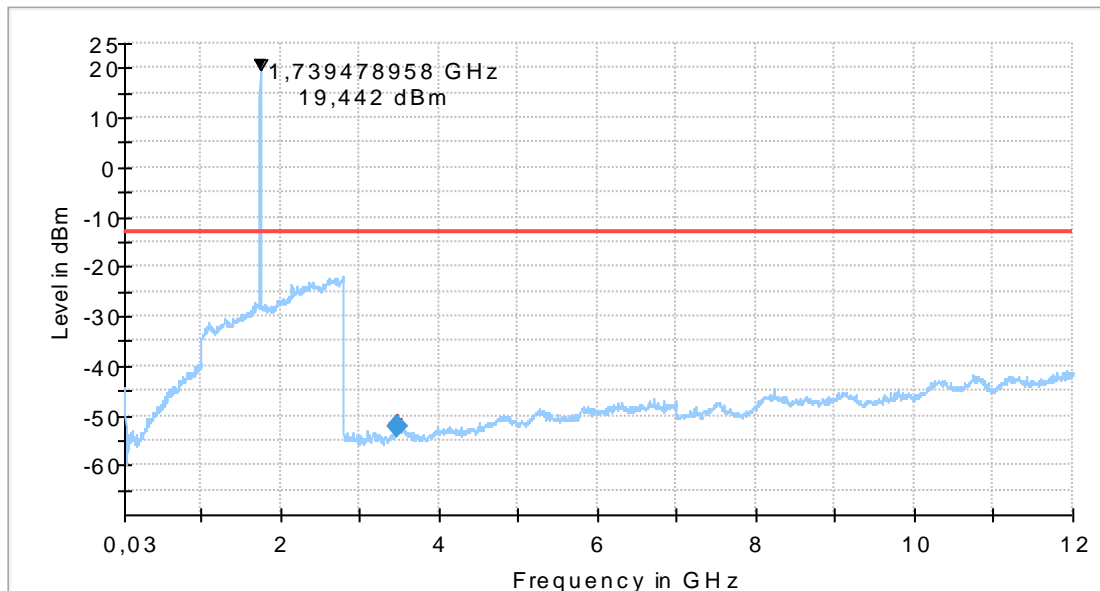
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1450 (fc = 1740) |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | KRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



Final Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Po l | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|------|---------------|-----------------|------------|
| 3478.056112 | -52.33 | -13.00 | 39.33 | 10000.0 | 1000.000 | 155.0 | V | 96.0 | 0.0 | -93.9 |

(continuation of the "Final_Result" table from column 17 ...)

| Frequency (MHz) | Comment |
|-----------------|-----------------------|
| 3478.056112 | 06:44:19 - 28.03.2015 |

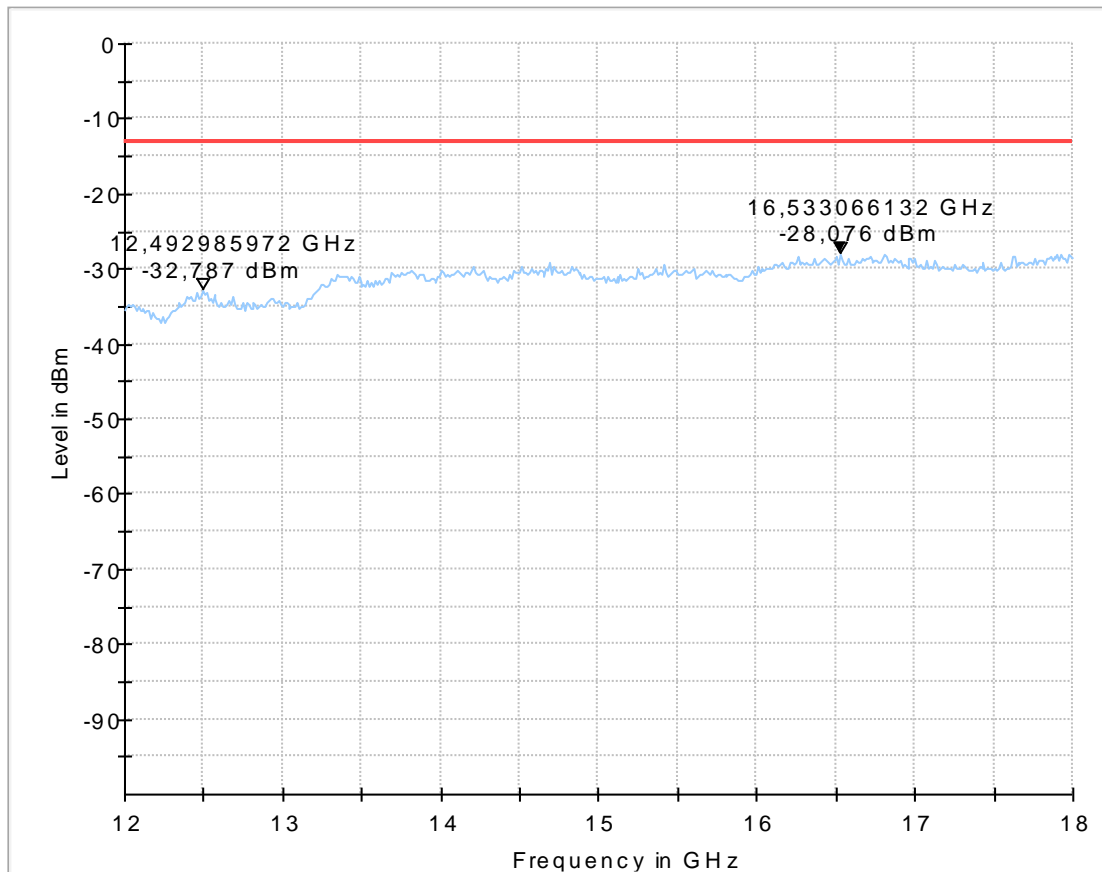
8.47a_CH1450_RMC

Common Information

| | |
|-------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1450(fc=1740) , RMC99 |
| Environment Conditions: | Humidity: 33%rH; Temperature:25°C |
| Operator Name: | AHo |
| Comment: | 12-18GHz |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |



8.48_CH1513_RMC

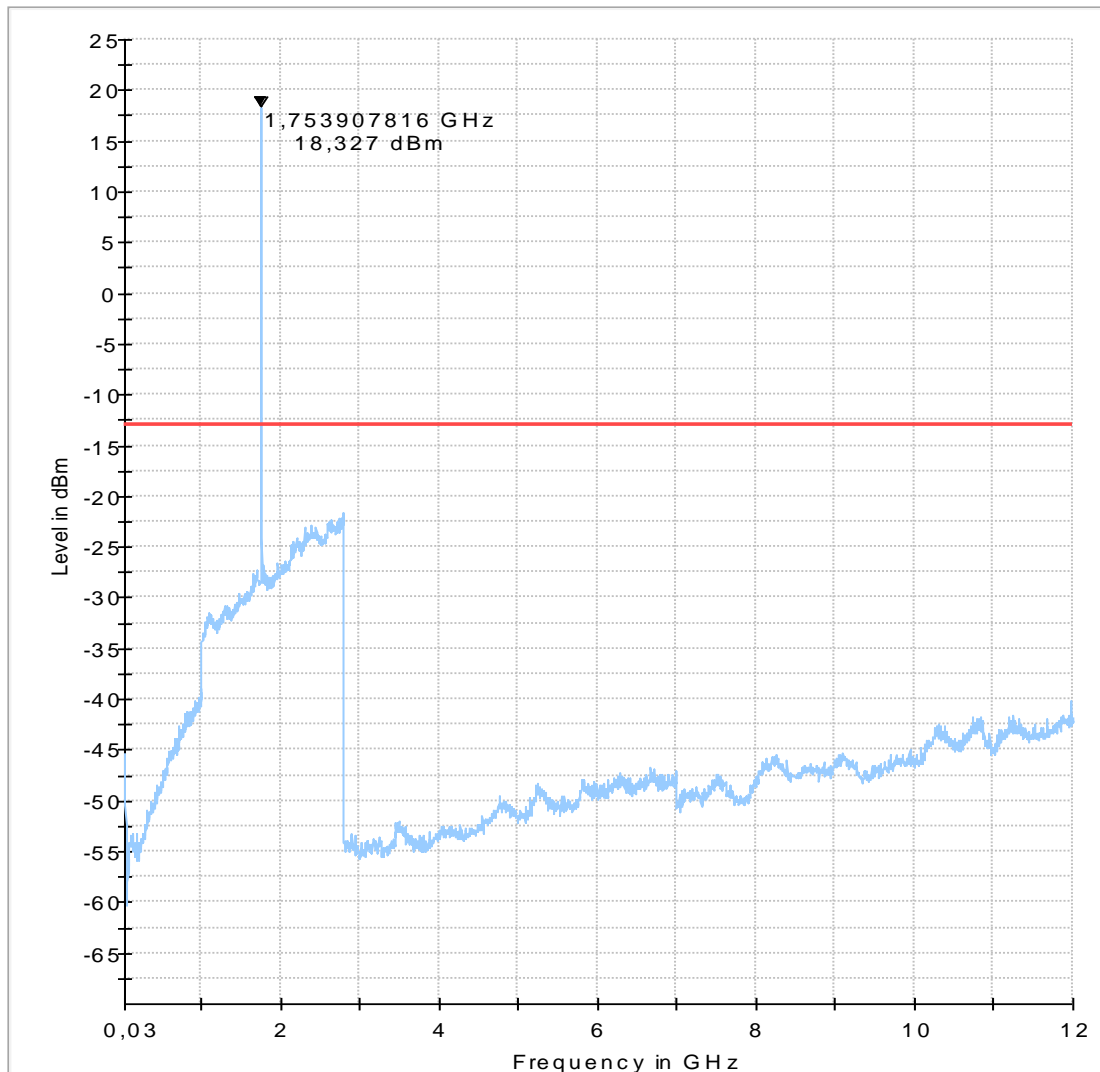
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1513 (fc=1752,6 MHz), RMC99 |
| Environmental Conditions: | Humidity: 30%rH; Temperature: 24°C |
| Operator: | KRe |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421360 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.48a_CH1513_RMC

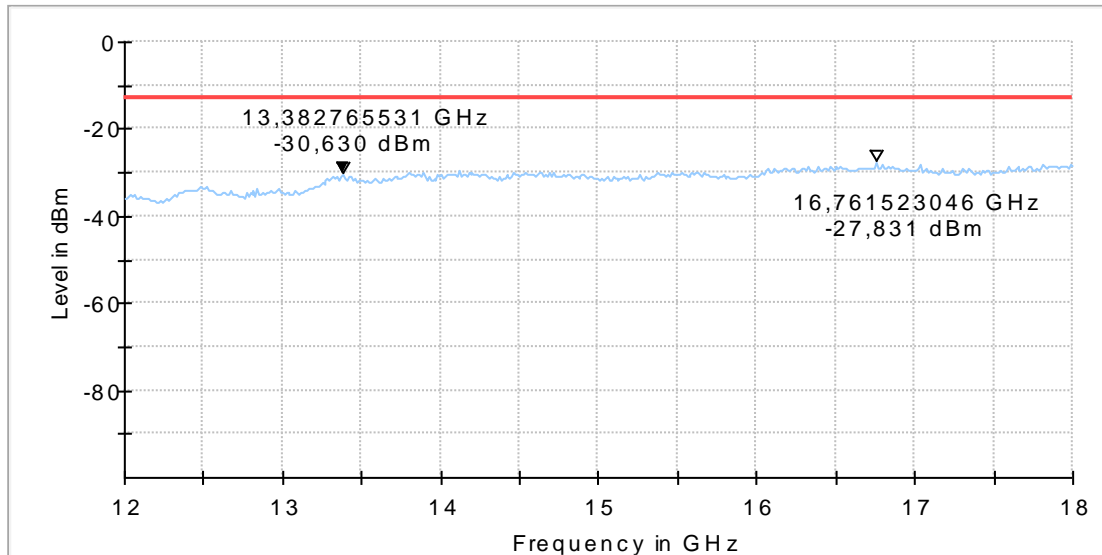
Common Information

| | |
|---------------------------|-------------------------------------|
| Test Description: | Radiated Spurious Emissions Part 27 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Comm. Link: | FDD4/LTE4, RMC99 |
| Operating Mode: | MS allocated channel 1513 |
| Environmental Conditions: | Humidity: 33%rH; Temperature: 25°C |
| Operator: | AHo |
| Comments: | 12-18 GHz |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



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

8.40_CH4183_RMC

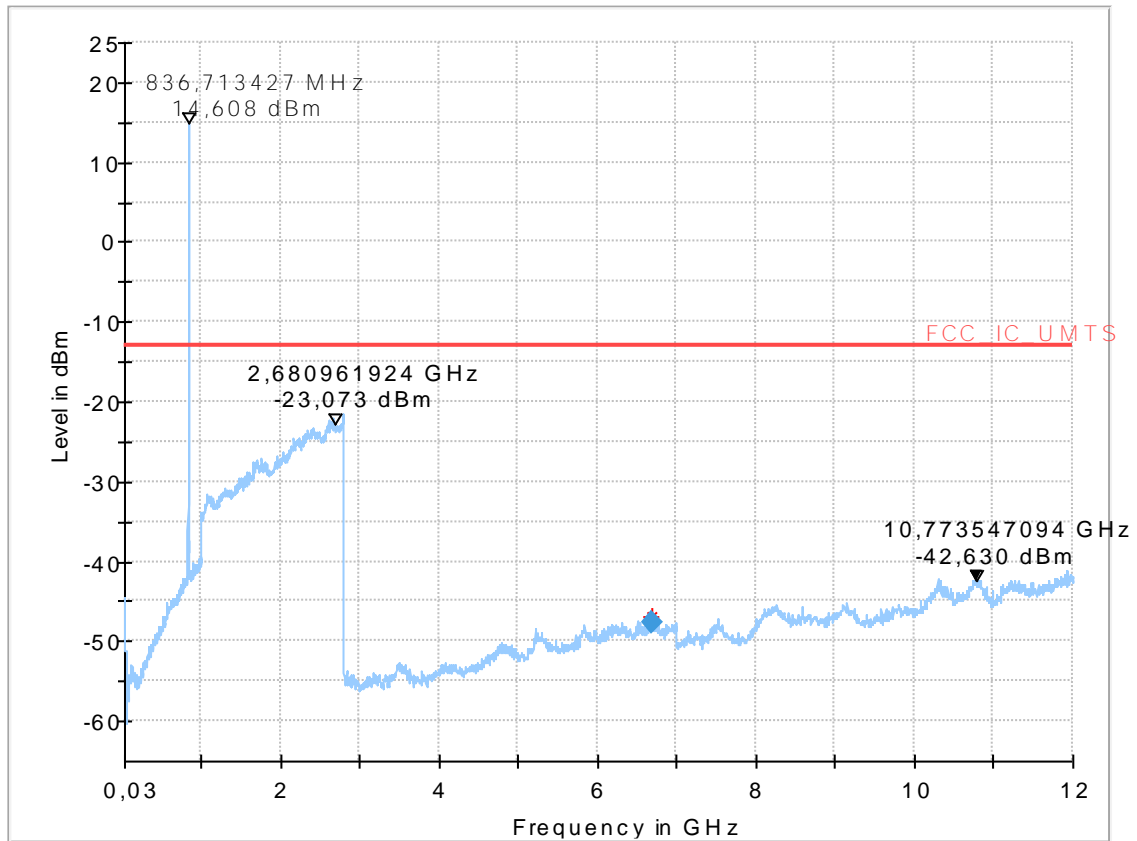
Common Information

| | |
|---------------------------|---|
| 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) / RSS-132, Issue 3 |
| Operating Mode: | UE allocated channel 4183 (fc = 836.6), RMC99 |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 25C |
| Operator: | kmo |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



Final Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Po l | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|------|---------------|-----------------|------------|
| 6695.080160 | -47.64 | 13.00 | 34.64 | 10000.0 | 1000.000 | H | 53.0 | 90.0 | -85.2 |

8.41_CH4233_RMC

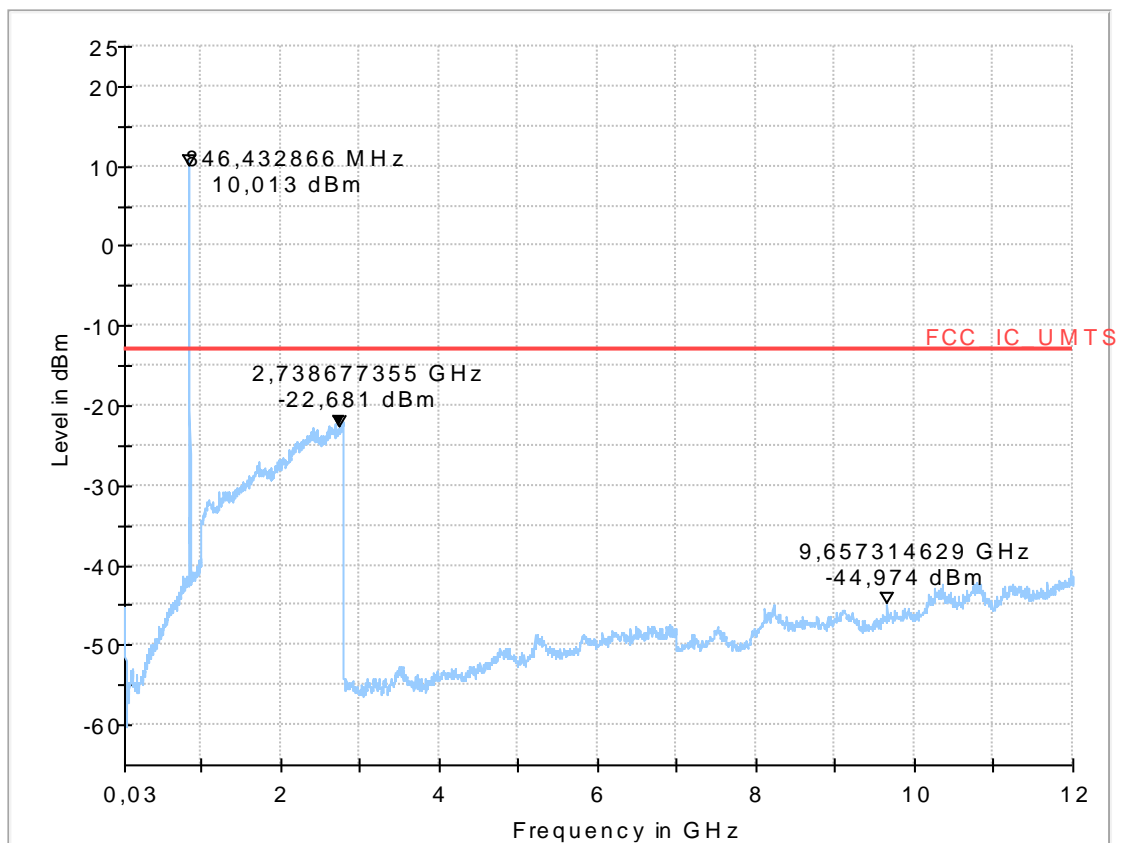
Common Information

| | |
|---------------------------|--|
| 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) / RSS-132, Issue 3 |
| Operating Mode: | UE allocated channel 4233 (fc = 846.6MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 25C |
| Operator: | kmo |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



8.42_CH4132_RMC

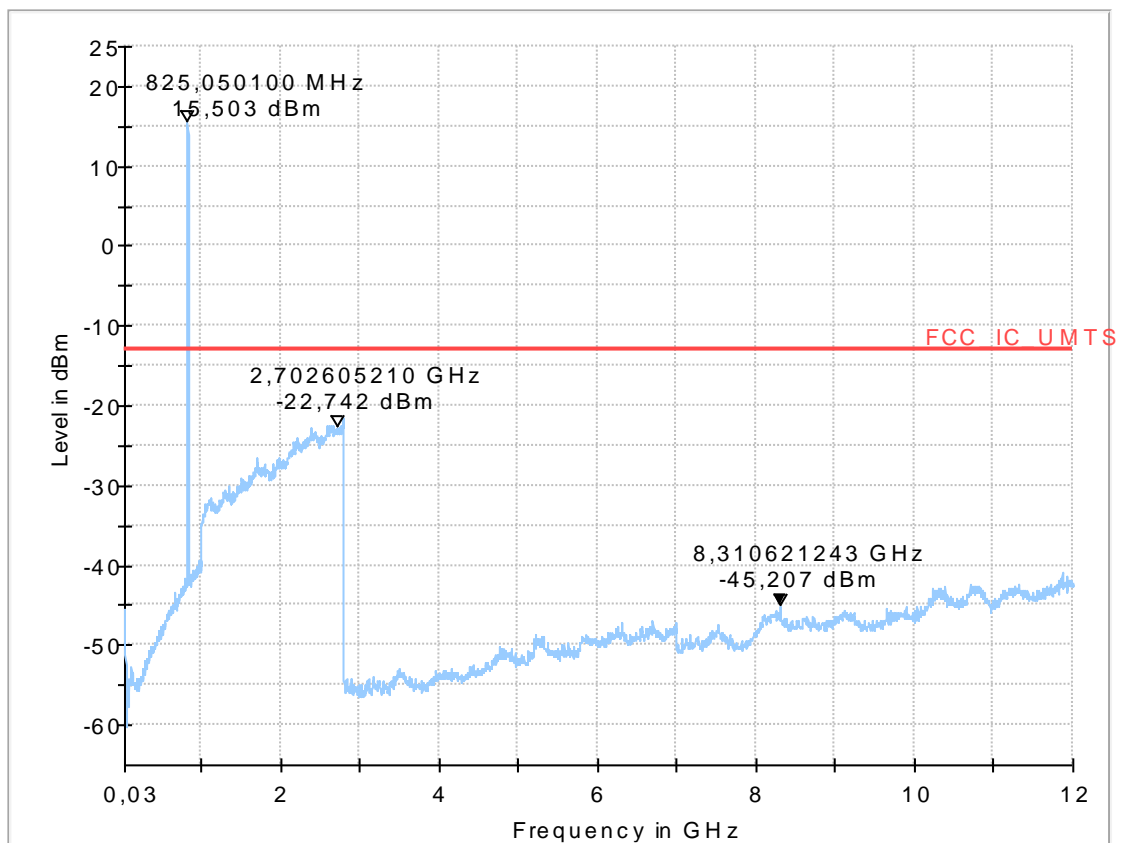
Common Information

| | |
|---------------------------|--|
| 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) / RSS-132, Issue 3 |
| Operating Mode: | UE allocated channel 4132 (fc = 826.4MHz), RMC Mode, PCL3 (+24dBm) |
| Environmental Conditions: | Humidity: 29%rH; Temperature: 25C |
| Operator: | kmo |

EUT Information

| | |
|----------------|------------------|
| EUT Name: | WMC0534PX8 (f) |
| Manufacturer: | Gemalto |
| Serial Number: | #004401081421380 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



1.4. Radiated emissions on FDD Band II band-edge

9.20_BE_R_Ch9262_RMC

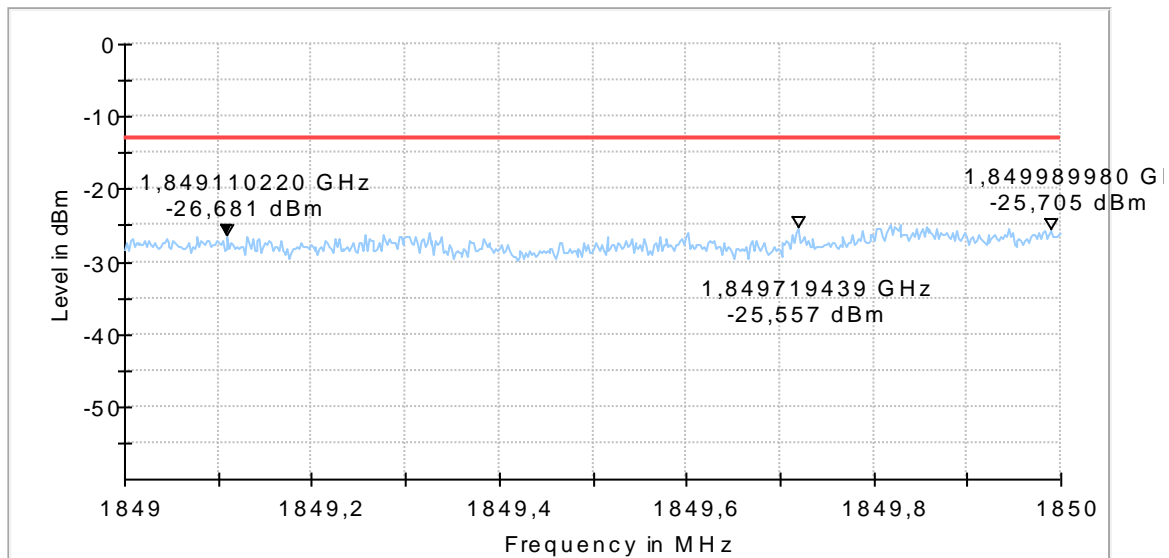
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Band Edge Compliance UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| Operating Mode: | UE allocated channel 9262 (fc = 1852.4 MHz), RMC99 |
| Environmental Conditions: | Humidity: 28%rH; Temperature: 24°C |
| Operator: | AHo/ HLa |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



9.21_BE_R_Ch9538_RMC

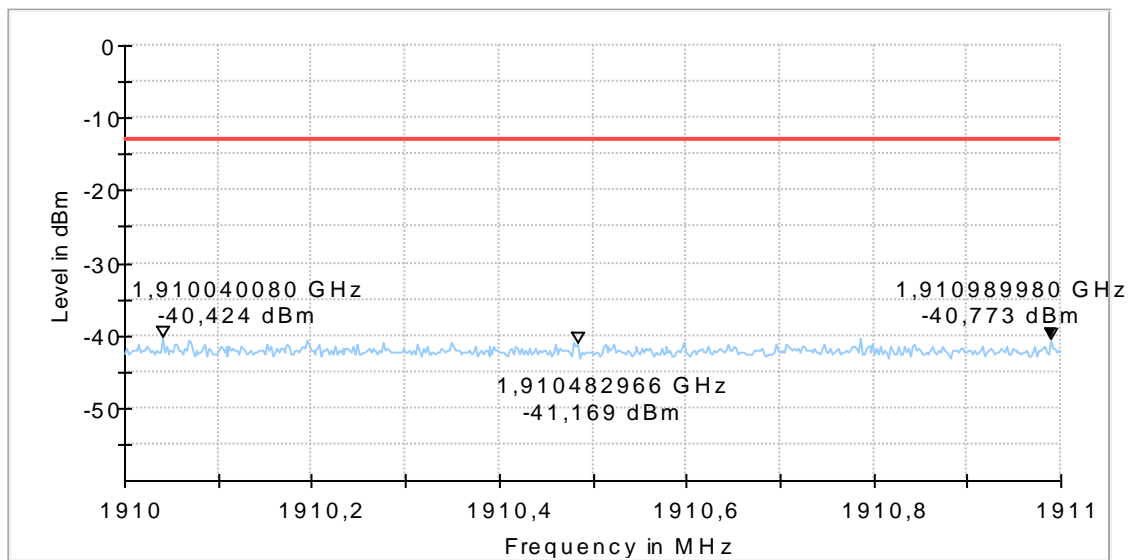
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| Operating Mode: | UE allocated channel:9538 (fc = 1852.4 MHz), RMC99 |
| Environmental Conditions: | Humidity: 28%rH; Temperature: 24°C |
| Operator: | AHo/ HLa |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



1.5. Radiated emissions on FDD Band IV band-edge

9.40_BE_R_Ch1312_RMC

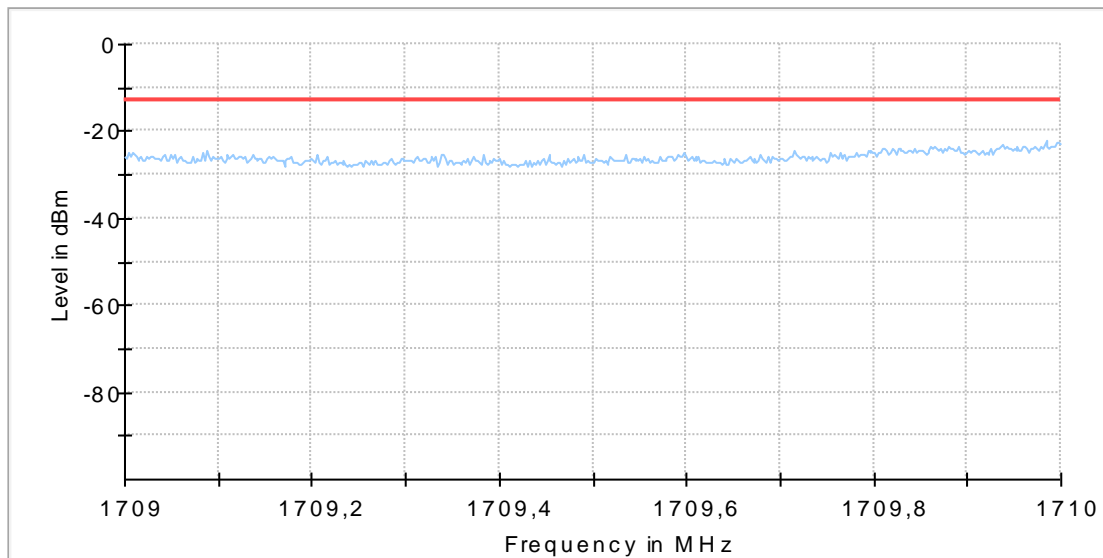
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1513, RMC99 |
| Environmental Conditions: | Humidity: 24%rH; Temperature:27°C |
| Operator: | HLa |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



9.41_BE_R_Ch1513_RMC

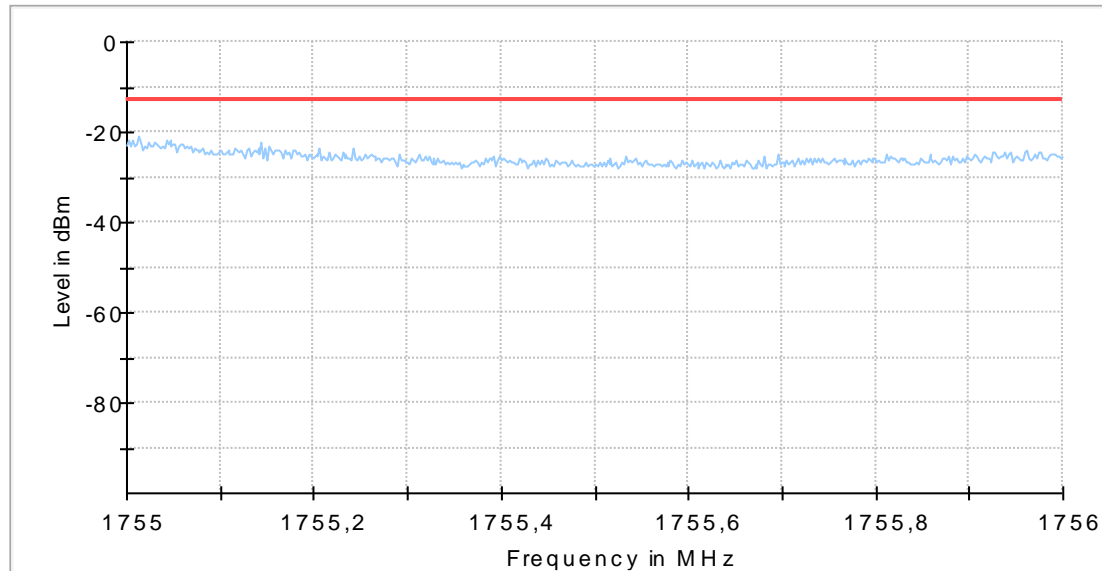
Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Spurious Emissions UMTS FDDIV |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| Operating Mode: | UE allocated channel 1513, RMC99 |
| Environmental Conditions: | Humidity: 24%rH; Temperature:27°C |
| Test SW Version: | EMC32 V9.15.0 |
| Operator: | HLa |
| | EUT - laying/standing position |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



1.6. Radiated emissions on FDD Band V band-edge

9.50_BE_R_Ch4132_RMC

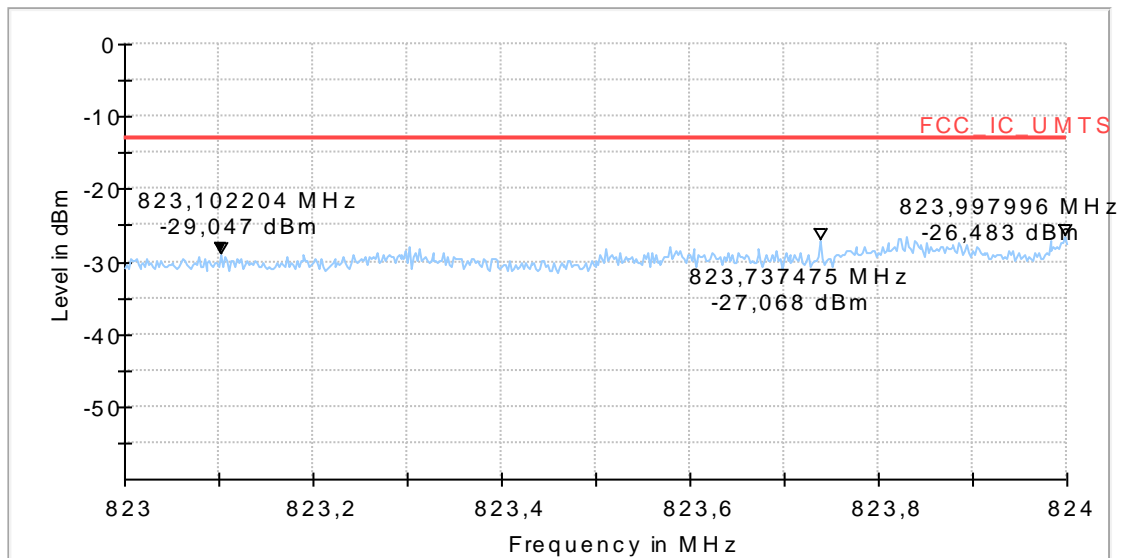
Common Information

| | |
|---------------------------|---|
| 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) / RSS-132 Issue 3 |
| Operating Mode: | UE allocated channel 4132, RMC99 |
| Environmental Conditions: | Humidity: 28%rH; Temperature: 24°C |
| Operator: | AHo/ HLa |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



9.51_BE_R_Ch4233_RMC

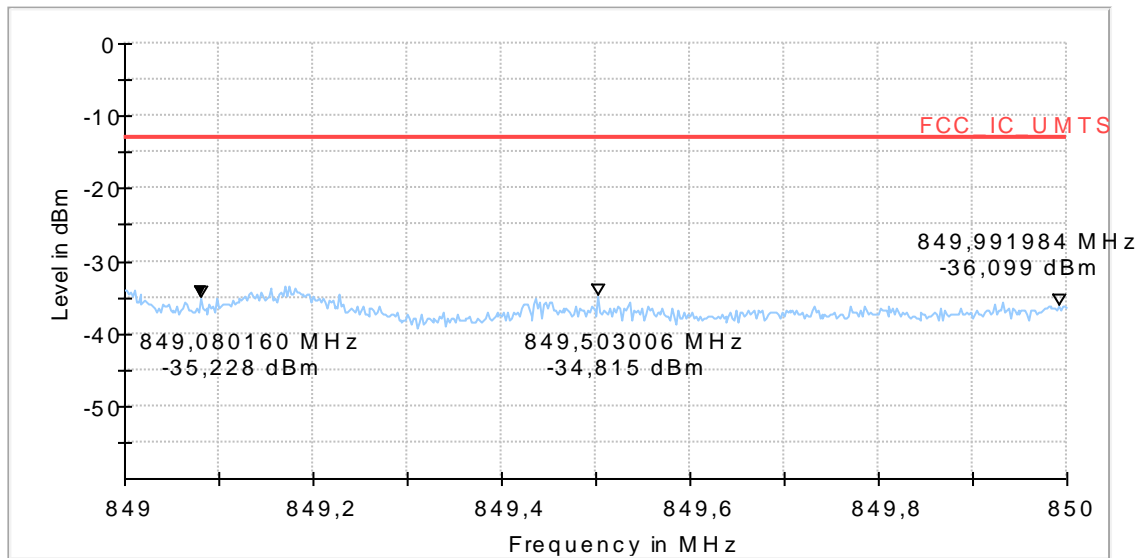
Common Information

| | |
|---------------------------|---|
| 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) / RSS-132 Issue 3 |
| Operating Mode: | UE allocated channel 4233, RMC99 |
| Environmental Conditions: | Humidity: 28%rH; Temperature: 24°C |
| Operator: | AHo/ HLa |

EUT Information

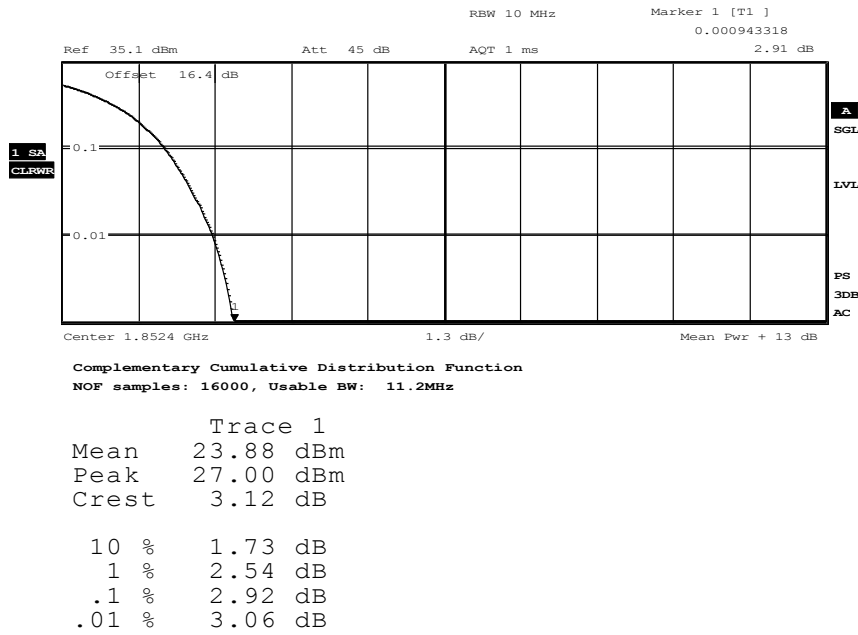
| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Full Spectrum



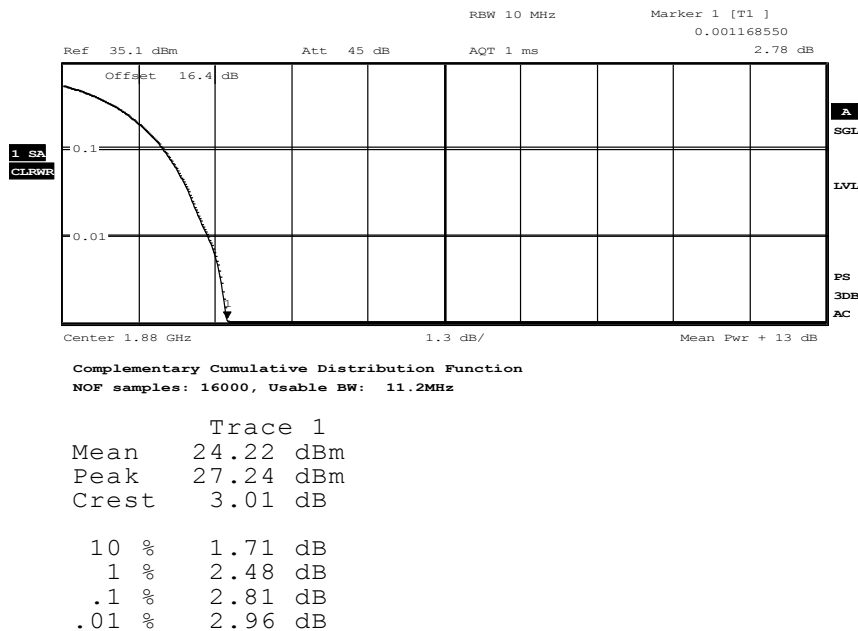
1.7. Peak power output and PAPR-Value

1.7.1. FDD Band 2



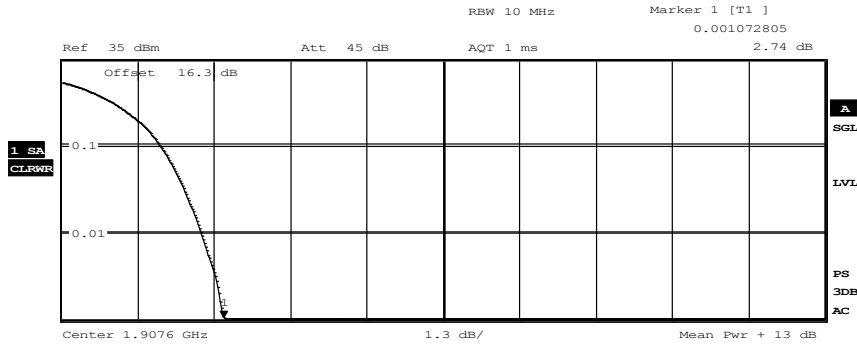
Date: 1.AUG.2015 09:53:33

Channel 9262



Date: 1.AUG.2015 09:54:17

Channel 9400



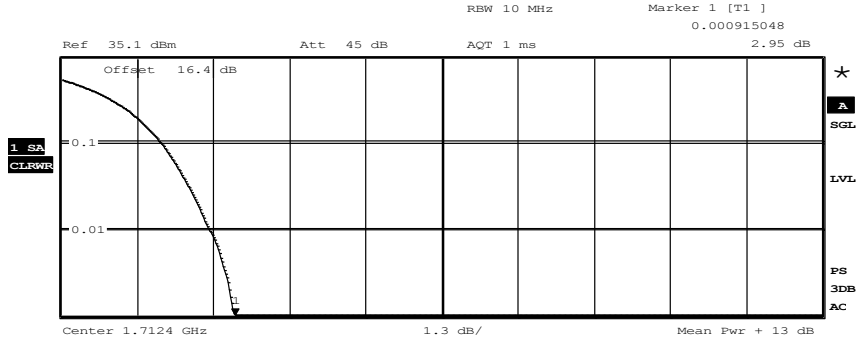
Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 23.53 dBm |
| Peak | 26.51 dBm |
| Crest | 2.98 dB |
| 10 % | 1.69 dB |
| 1 % | 2.38 dB |
| .1 % | 2.75 dB |
| .01 % | 2.90 dB |

Date: 1.AUG.2015 09:55:33

Channel 9538

1.7.2. FDD Band 4

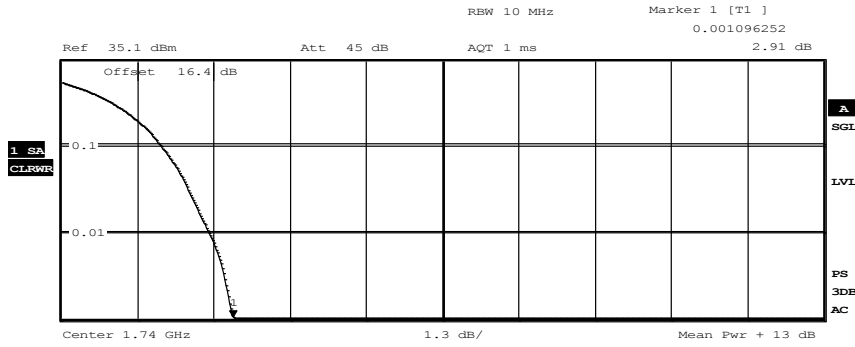


Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 23.65 dBm |
| Peak | 26.83 dBm |
| Crest | 3.18 dB |
| 10 % | 1.71 dB |
| 1 % | 2.52 dB |
| .1 % | 2.96 dB |
| .01 % | 3.15 dB |

Date: 1.AUG.2015 09:42:03

Channel 1312



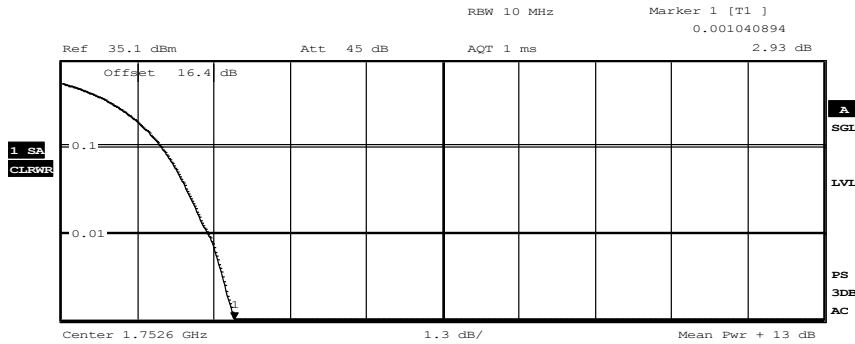
Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
 Mean 24.12 dBm
 Peak 27.41 dBm
 Crest 3.29 dB

10 % 1.69 dB
 1 % 2.52 dB
 .1 % 2.92 dB
 .01 % 3.15 dB

Date: 1.AUG.2015 09:44:40

Channel 1450



Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

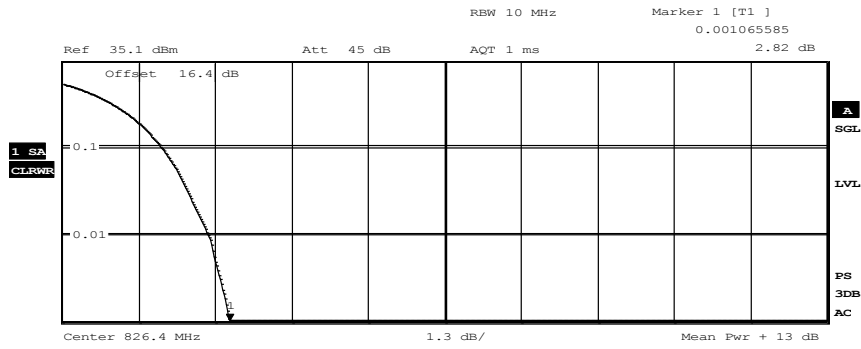
Trace 1
 Mean 24.19 dBm
 Peak 27.30 dBm
 Crest 3.11 dB

10 % 1.69 dB
 1 % 2.50 dB
 .1 % 2.94 dB
 .01 % 3.08 dB

Date: 1.AUG.2015 09:45:51

Channel 1513

1.7.3. FDD Band 5

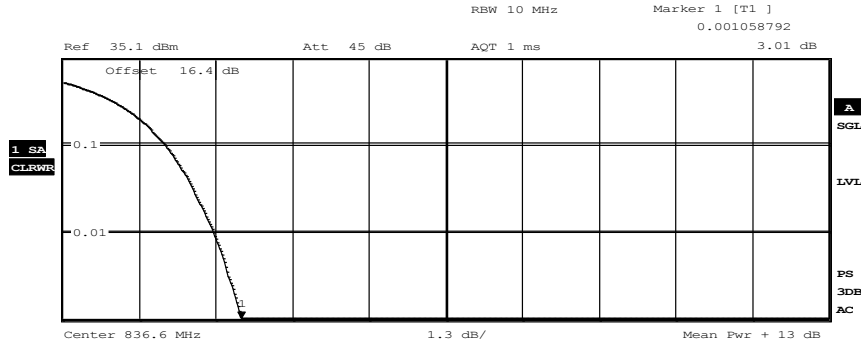


Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 23.86 dBm |
| Peak | 26.87 dBm |
| Crest | 3.01 dB |
| 10 % | 1.69 dB |
| 1 % | 2.48 dB |
| .1 % | 2.83 dB |
| .01 % | 2.98 dB |

Date: 1.AUG.2015 09:49:59

Channel 4132

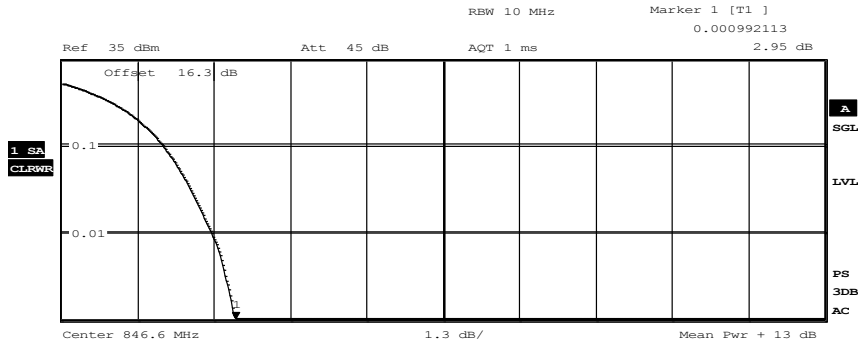


Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 23.87 dBm |
| Peak | 27.23 dBm |
| Crest | 3.37 dB |
| 10 % | 1.73 dB |
| 1 % | 2.56 dB |
| .1 % | 3.02 dB |
| .01 % | 3.21 dB |

Date: 1.AUG.2015 09:49:02

Channel 4183



Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

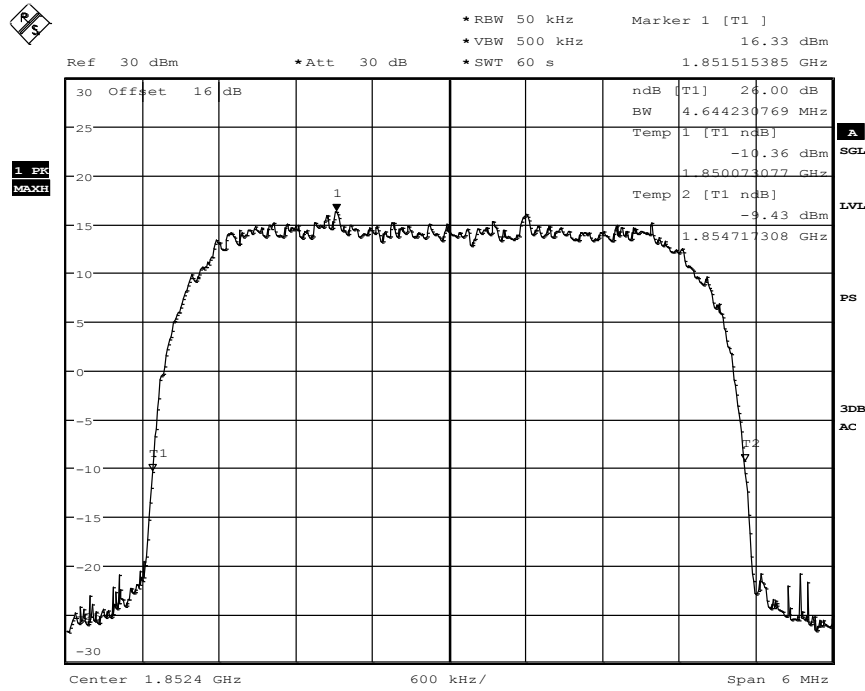
| Trace 1 | |
|---------|-----------|
| Mean | 23.76 dBm |
| Peak | 26.91 dBm |
| Crest | 3.14 dB |
| 10 % | 1.73 dB |
| 1 % | 2.56 dB |
| .1 % | 2.96 dB |
| .01 % | 3.13 dB |

Date: 1.AUG.2015 09:58:07

Channel 4233

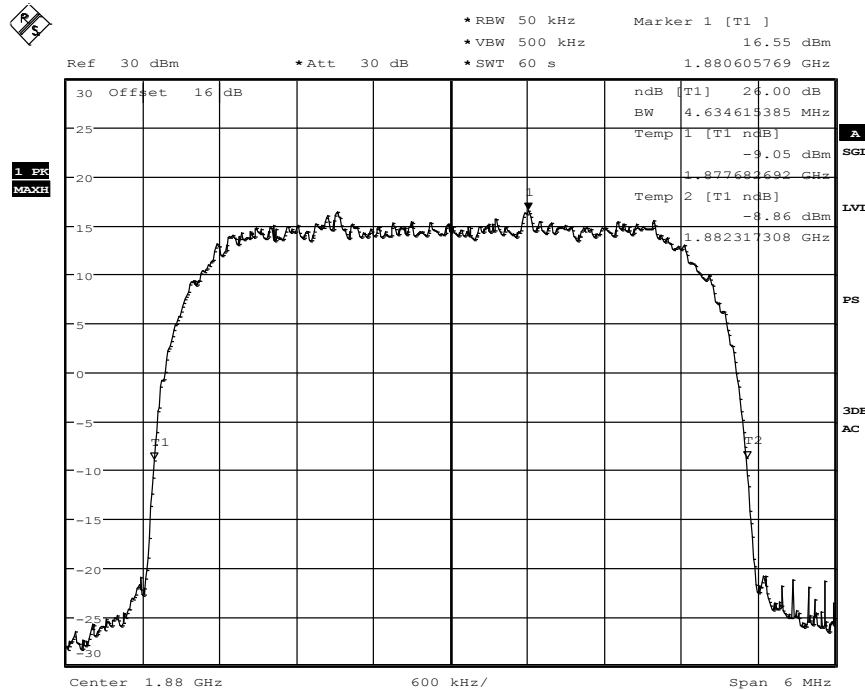
1.8. 26dBc Emission bandwidth

1.8.1. FDD II TX Mode



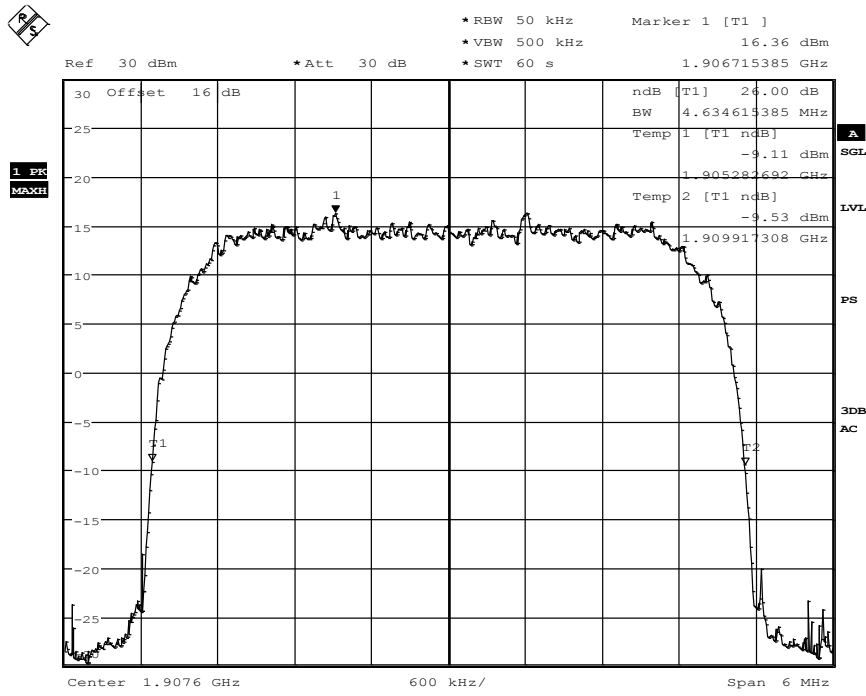
Date: 13.APR.2015 14:10:38

Channel 9262



Date: 13.APR.2015 14:08:44

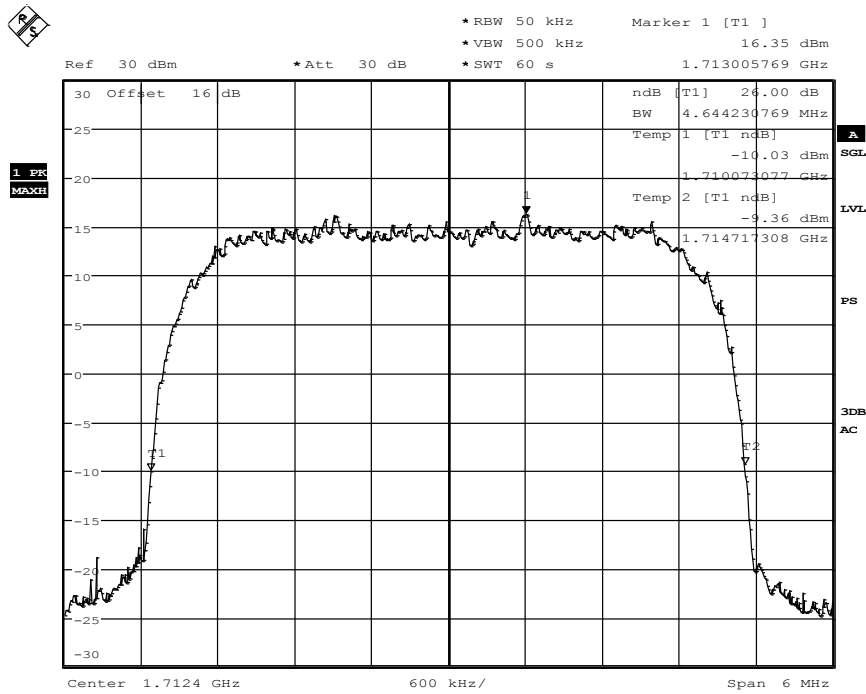
Channel 9400



Date: 13.APR.2015 14:06:47

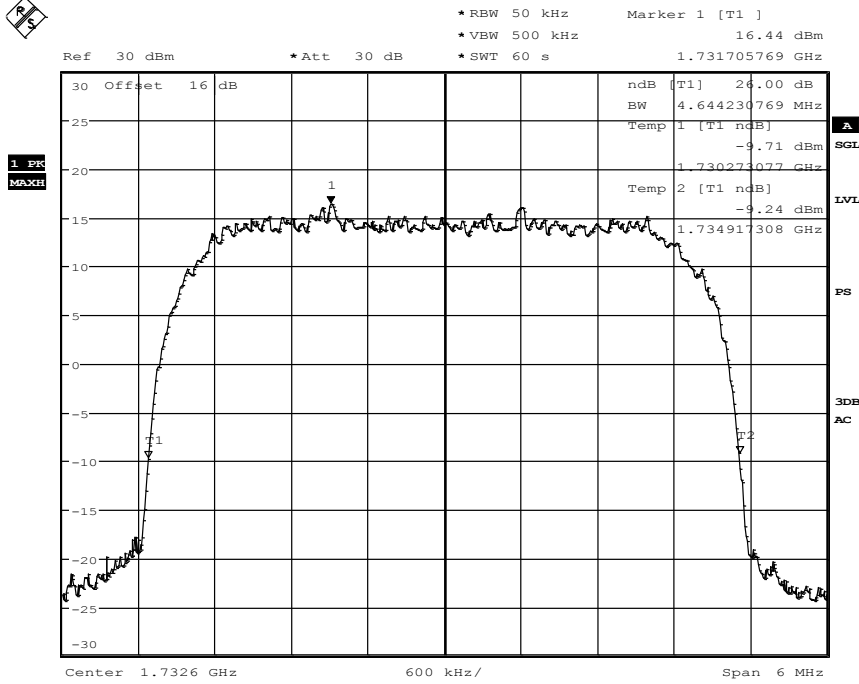
Channel 9538

1.8.2. FDD IV TX Mode



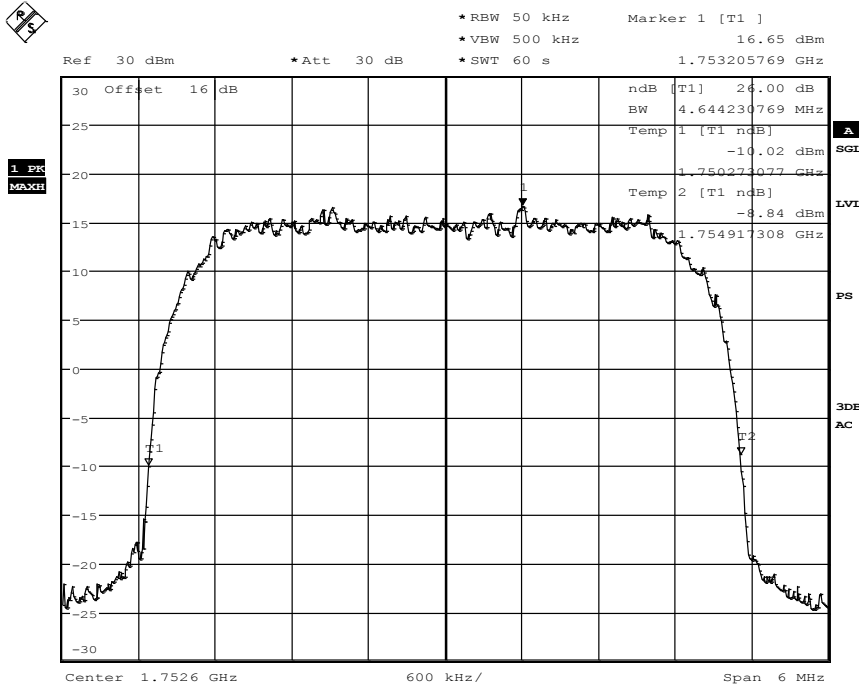
Date: 13.APR.2015 14:52:11

Channel 1312



Date: 13.APR.2015 14:54:28

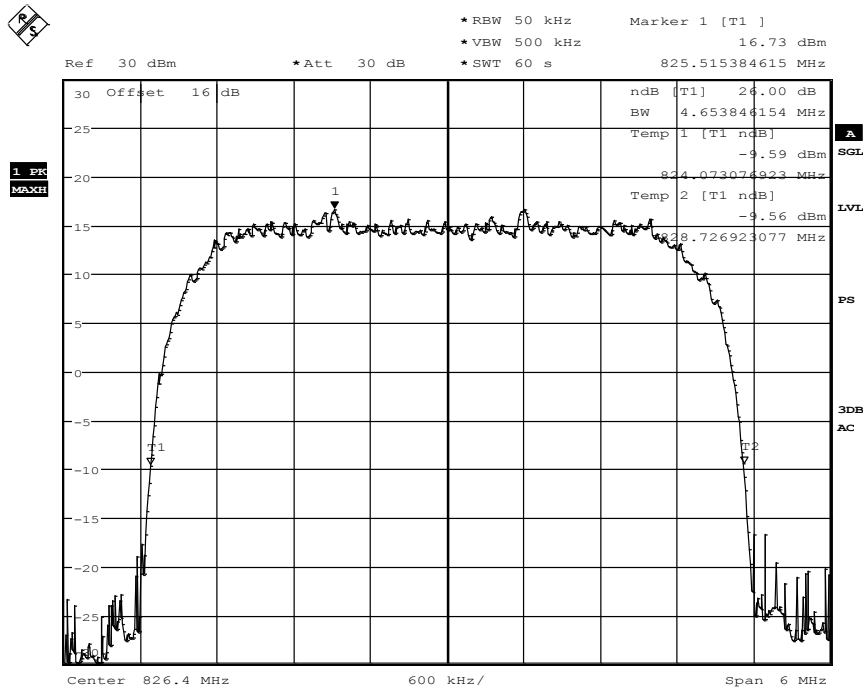
Channel 1413



Date: 13.APR.2015 14:57:30

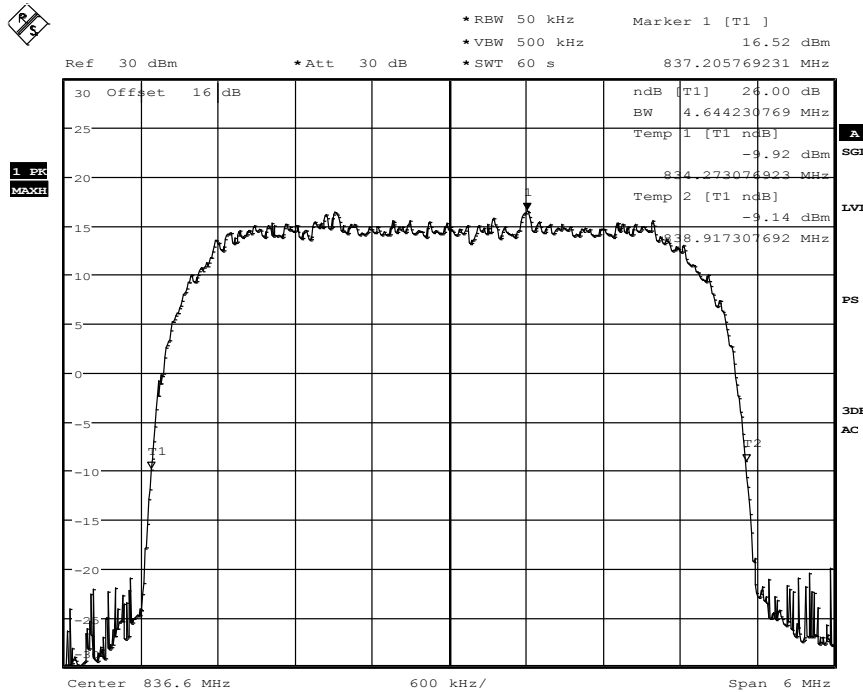
Channel 1513

1.8.3. FDD V TX Mode



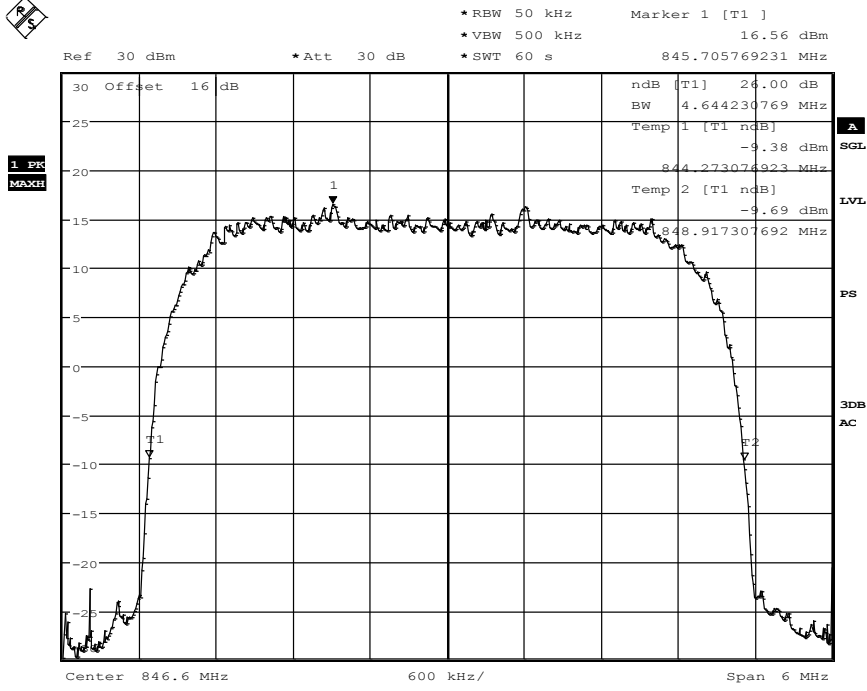
Date: 13.APR.2015 14:15:39

Channel 4132



Date: 13.APR.2015 14:19:23

Channel 4183

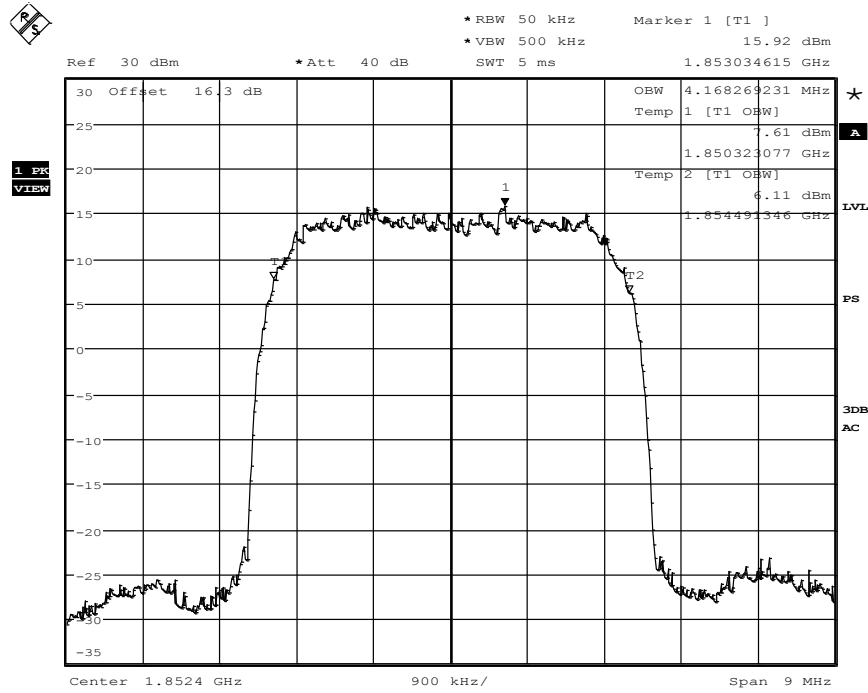


Date: 13.APR.2015 14:21:10

Channel 4233

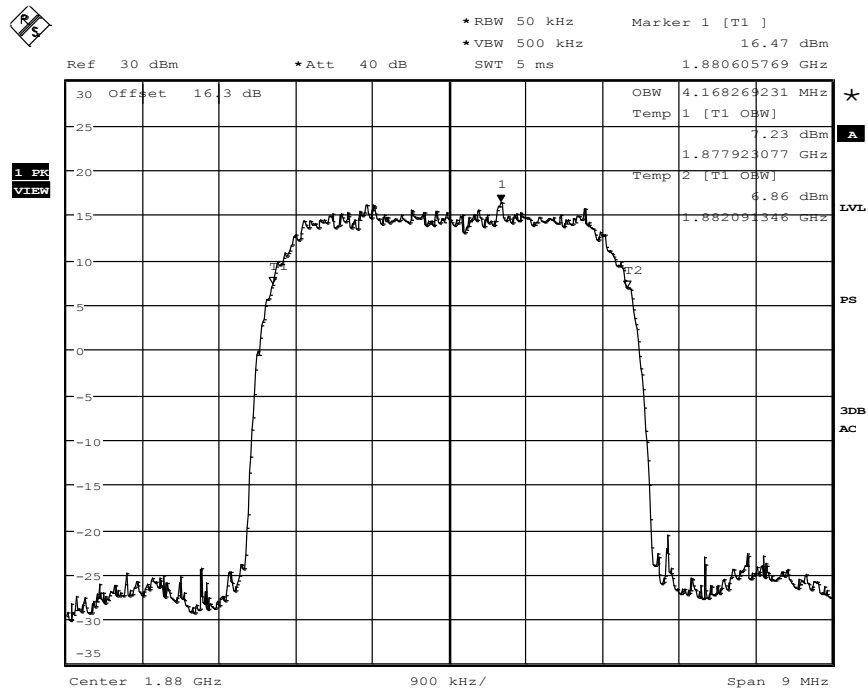
1.9. 99% Occupied bandwidth

1.9.1. FDD II TX Mode



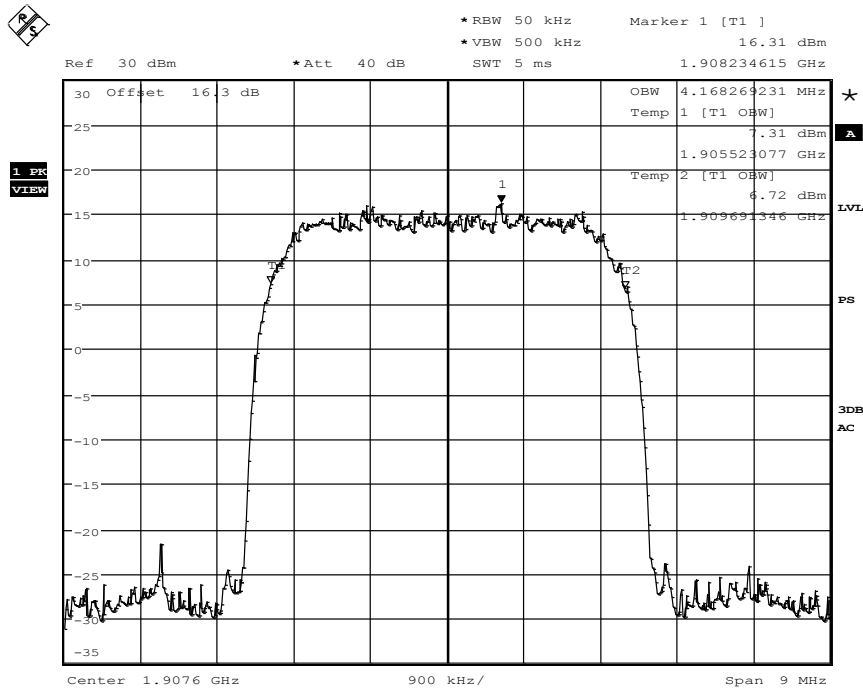
Date: 16.JUL.2015 10:26:23

Channel 9262



Date: 16.JUL.2015 10:29:50

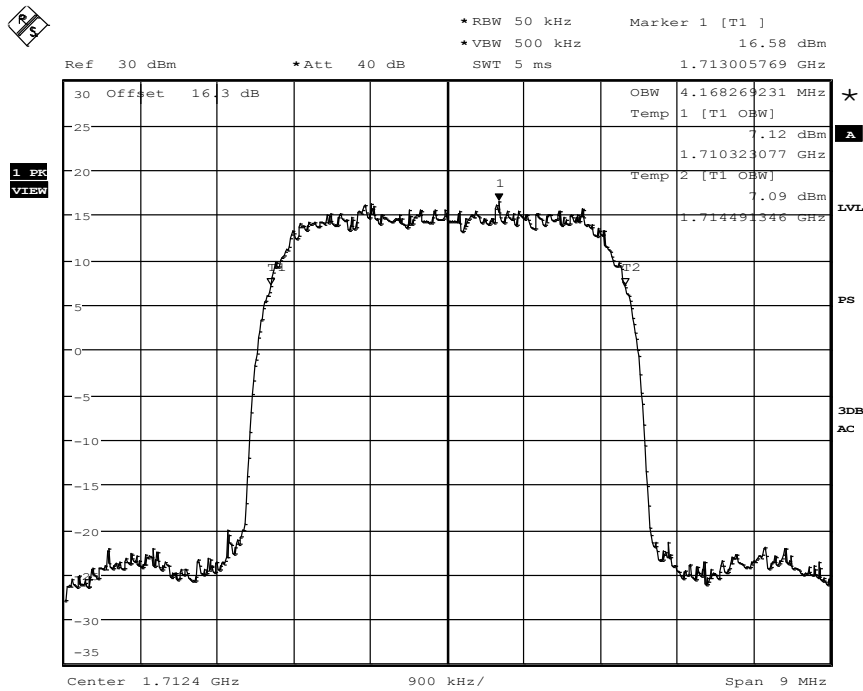
Channel 9400



Date: 16.JUL.2015 10:32:31

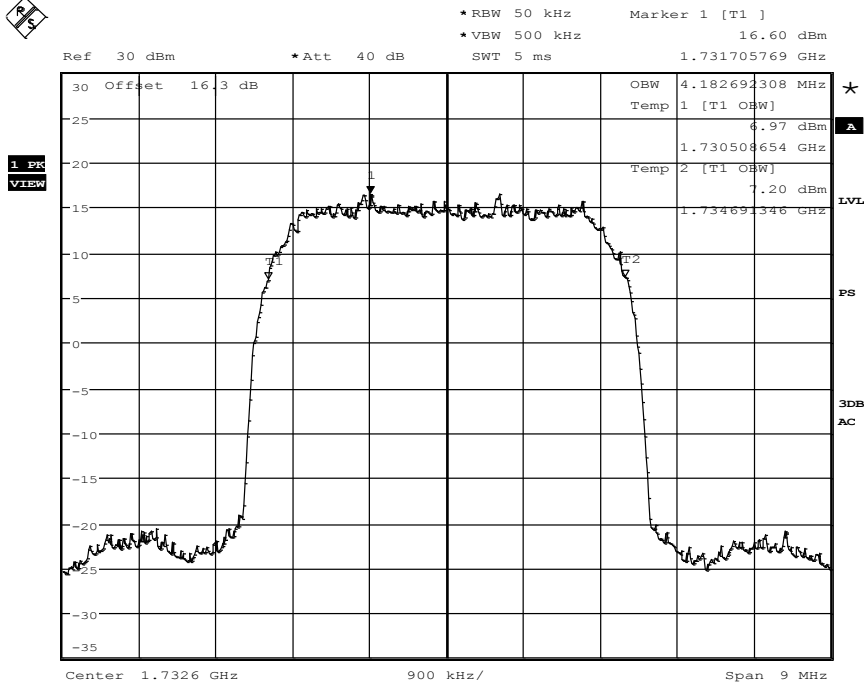
Channel 9538

1.9.2. FDD IV TX Mode



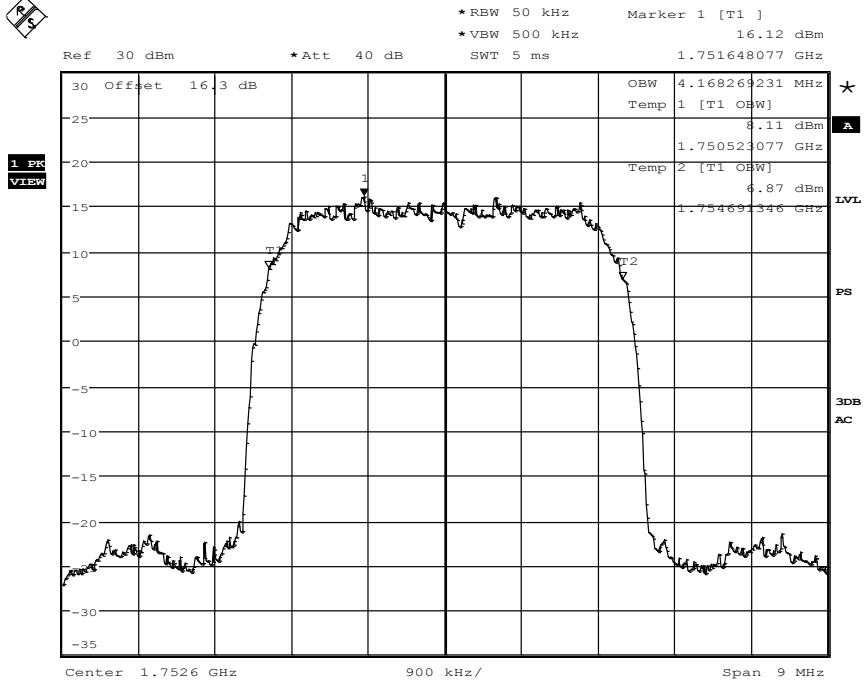
Date: 16.JUL.2015 10:41:48

Channel 1312



Date: 16.JUL.2015 10:45:22

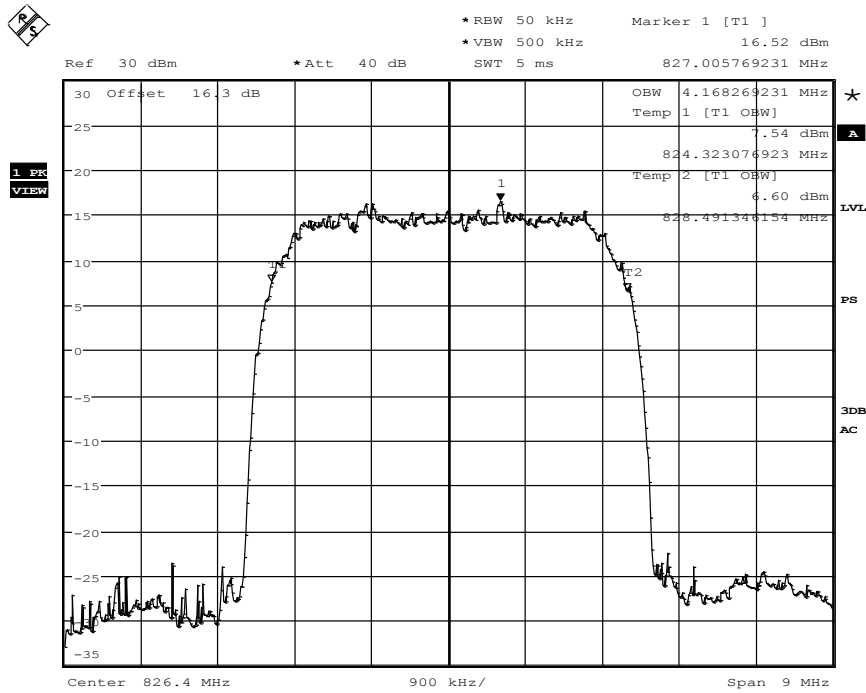
Channel 1413



Date: 16.JUL.2015 10:48:25

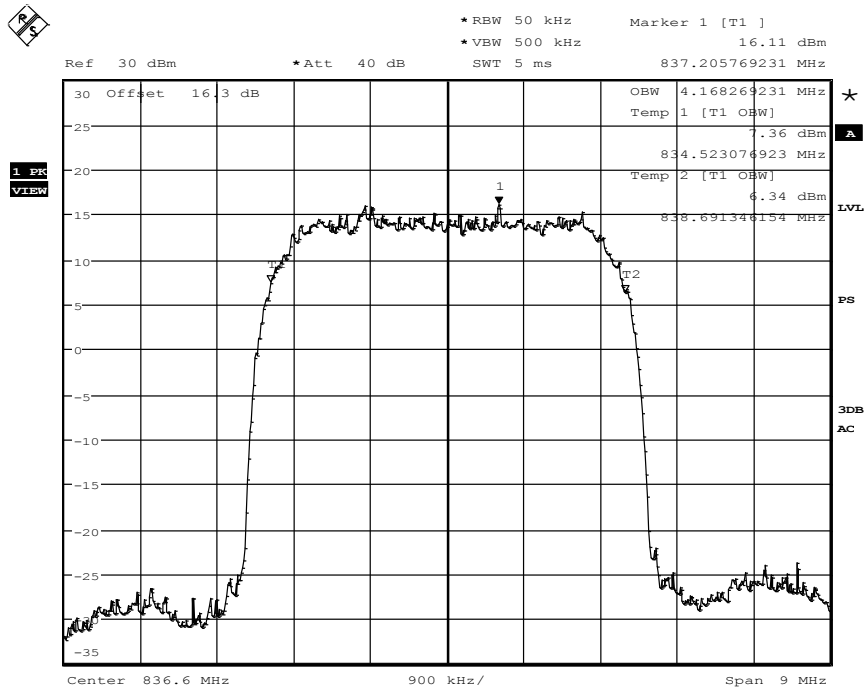
Channel 1513

1.9.3. FDD V TX Mode



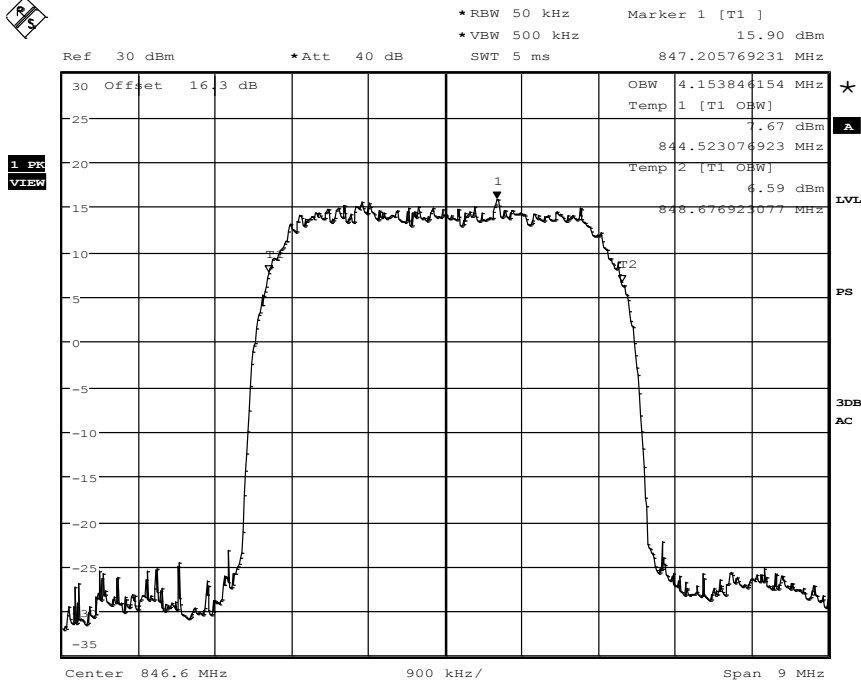
Date: 16.JUL.2015 10:53:11

Channel 4132



Date: 16.JUL.2015 10:56:34

Channel 4183



Date: 16.JUL.2015 10:59:32

Channel 4233

1.10. Spurious emissions conducted on FDD Band II

Diagram No.: 36.60_Ch9262_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

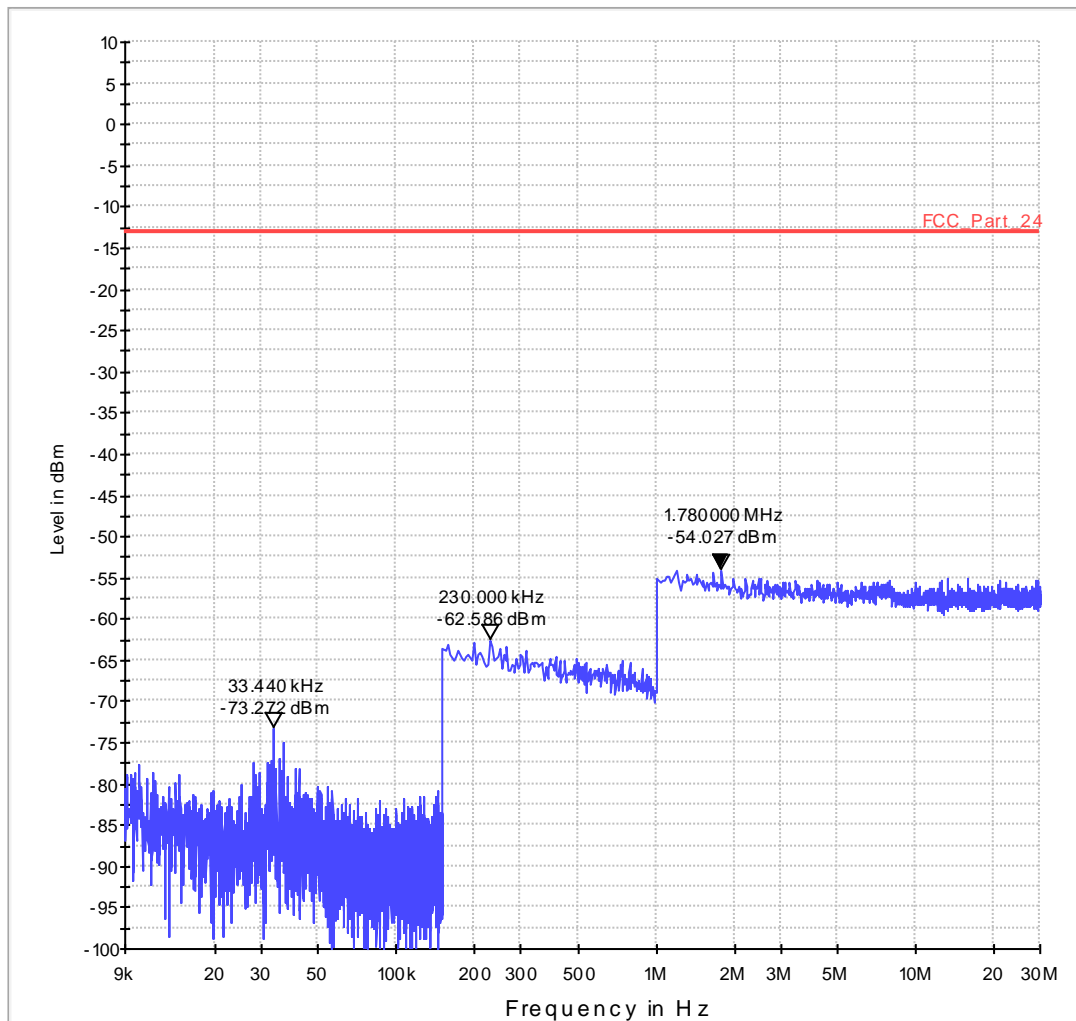


Diagram No.: 36.61_Ch9262_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

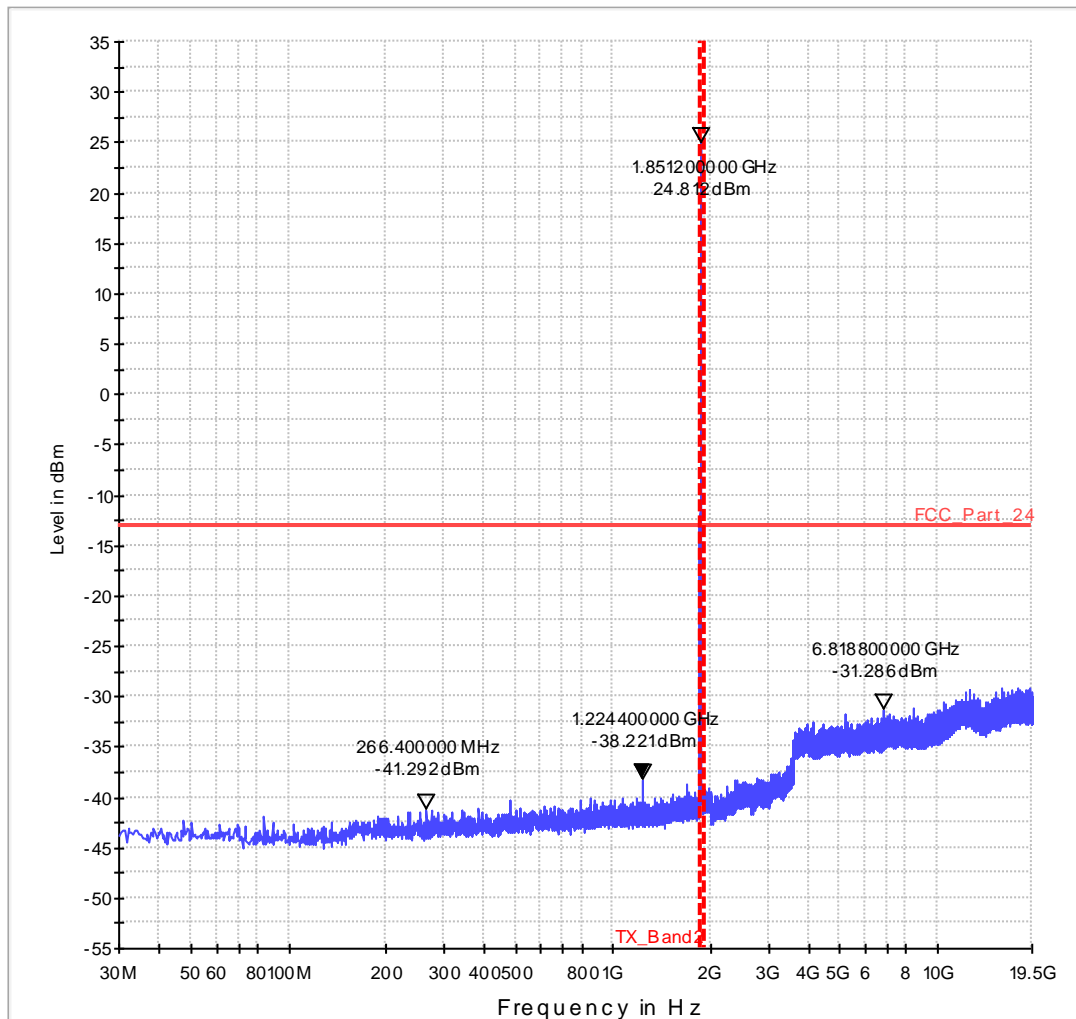


Diagram No.: 36.62_Ch9400_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9400 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

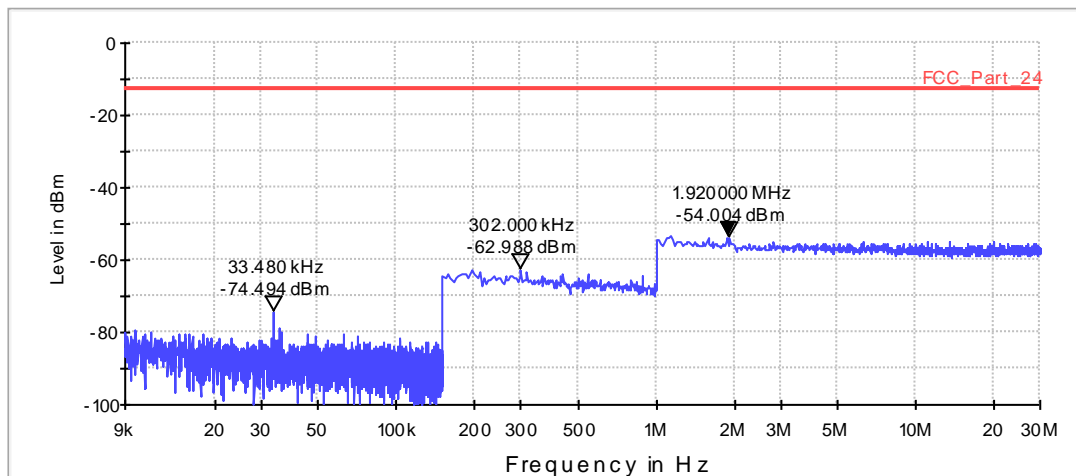


Diagram No.: 36.63_Ch9400_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9400 |
| Operator | MFr |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

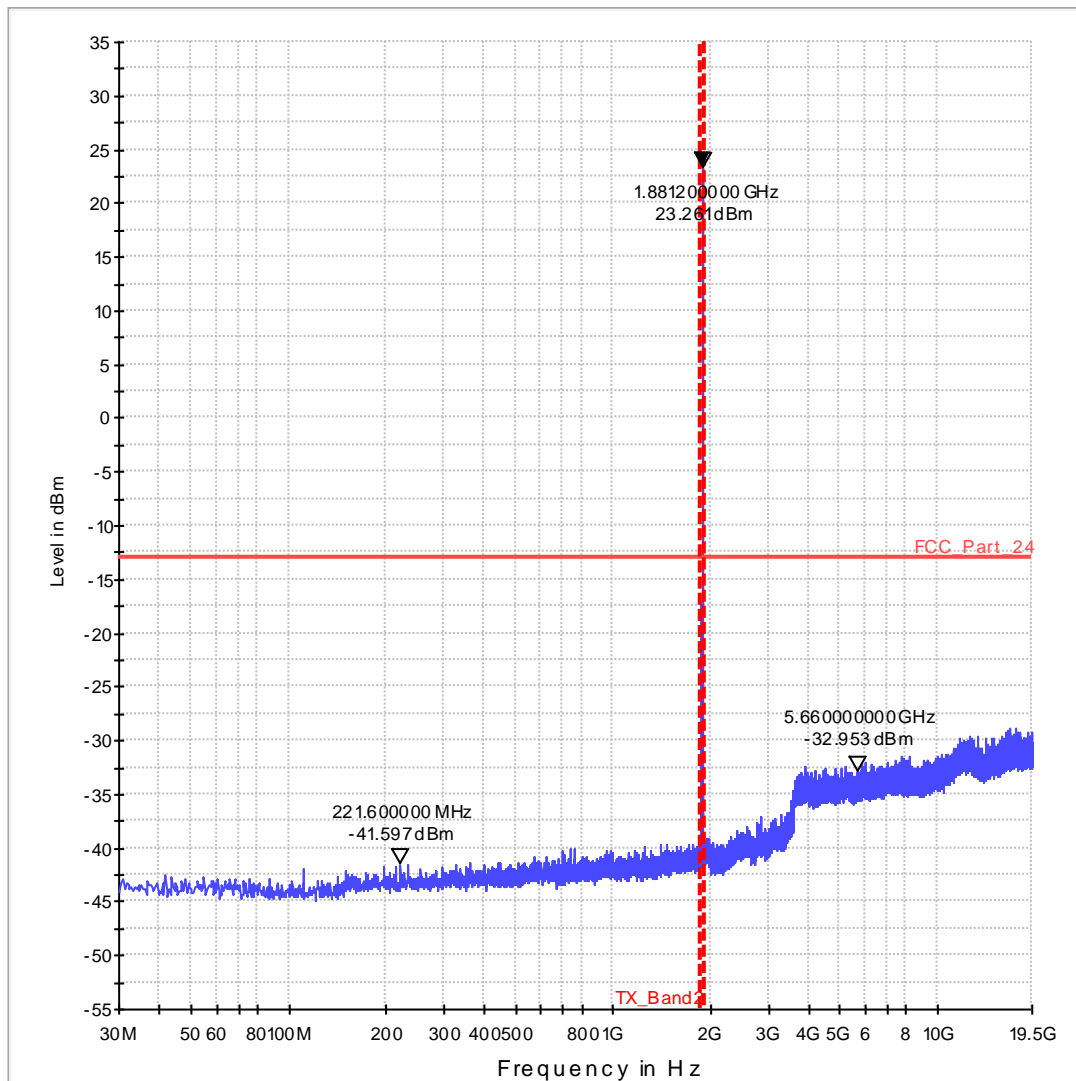


Diagram No.: 36.64_Ch9538_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9538 |
| Operator: | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

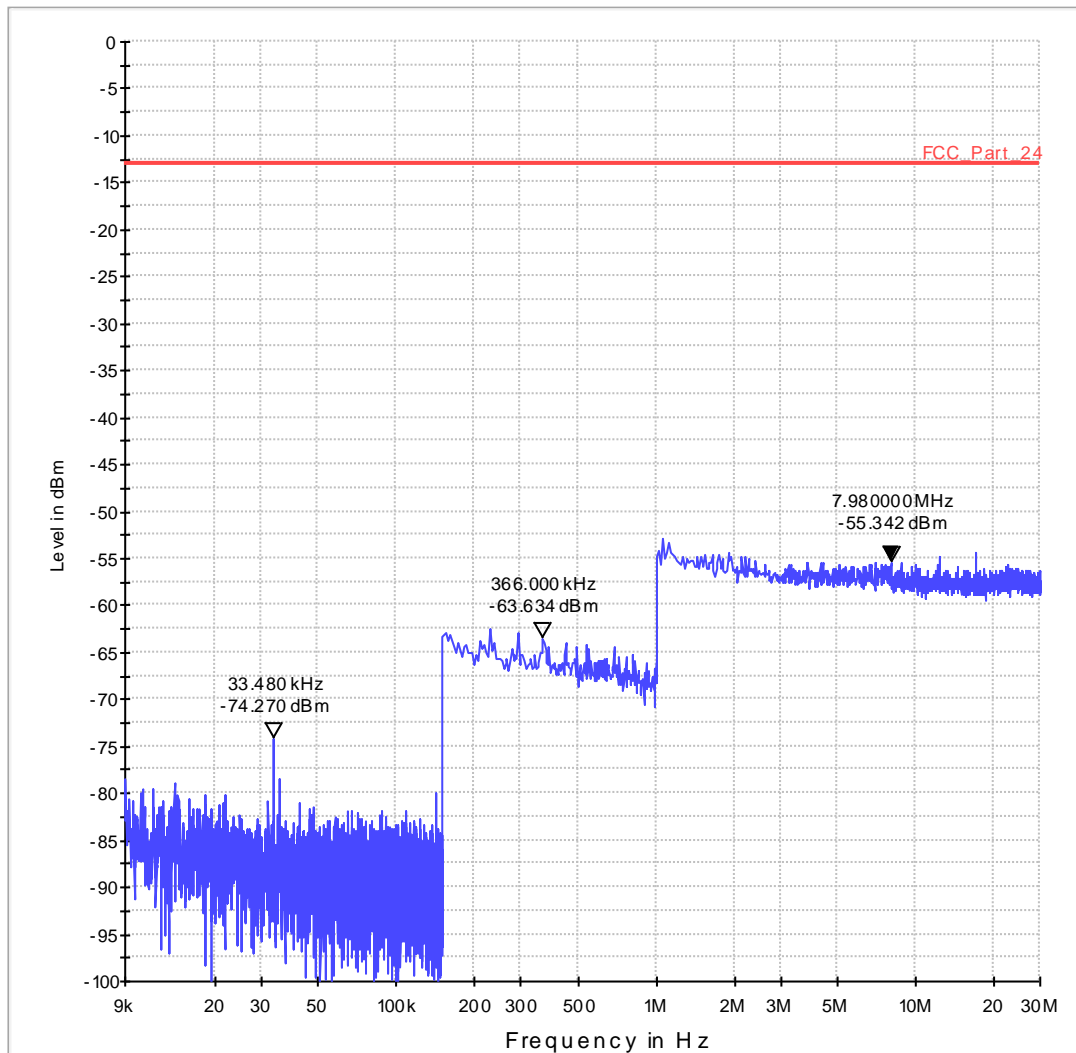


Diagram No.: 36.65_Ch9538_RMC_Sweep2

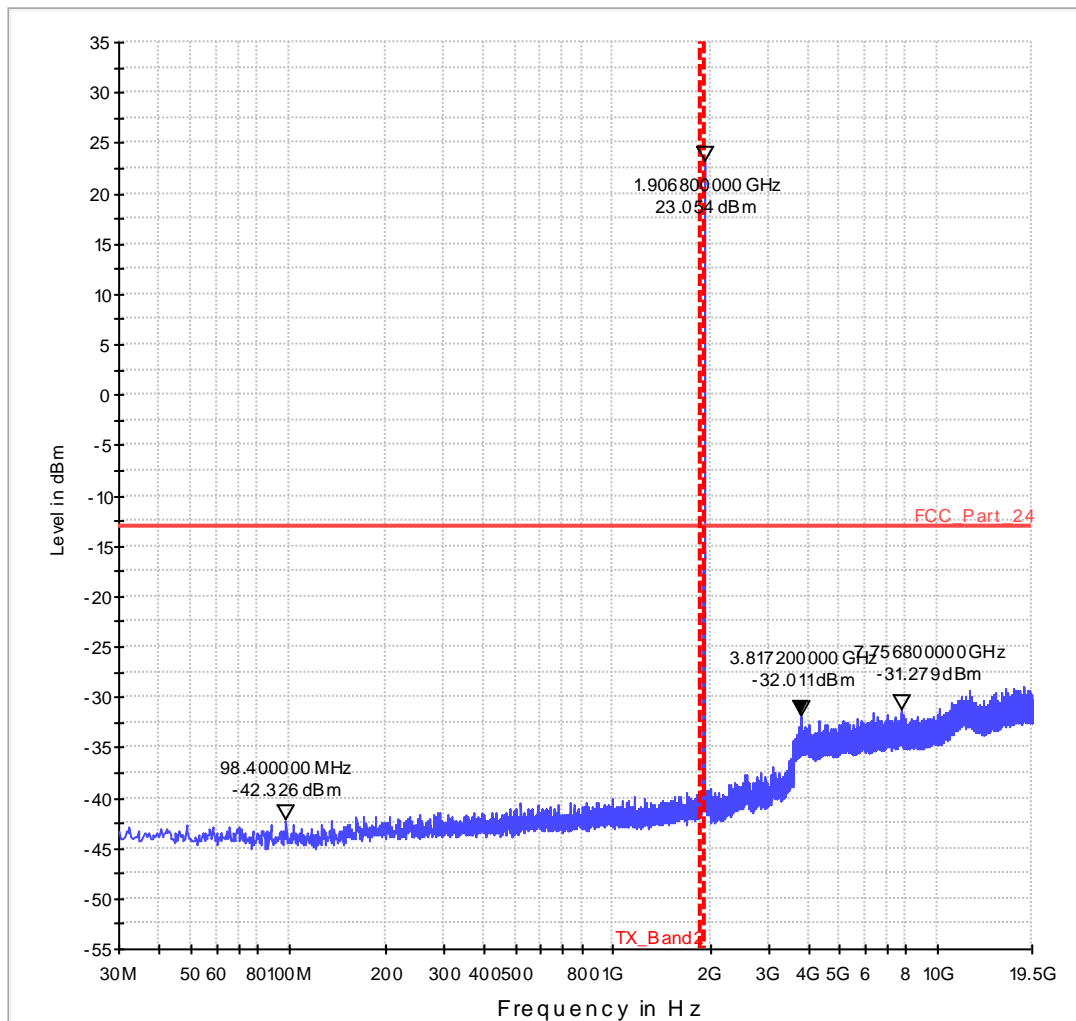
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9538 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



1.11. Spurious emissions conducted on FDD Band IV

Diagram No.: 36.70_Ch1312_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1312 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan1_9kHz_30MHz

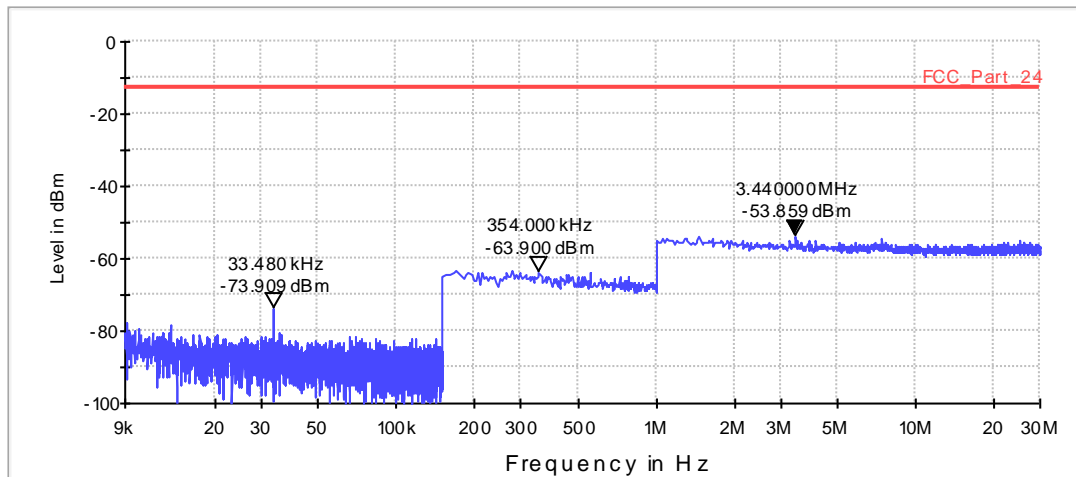


Diagram No.: 36.71_Ch1312_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1312 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan2_30MHz_18GHz

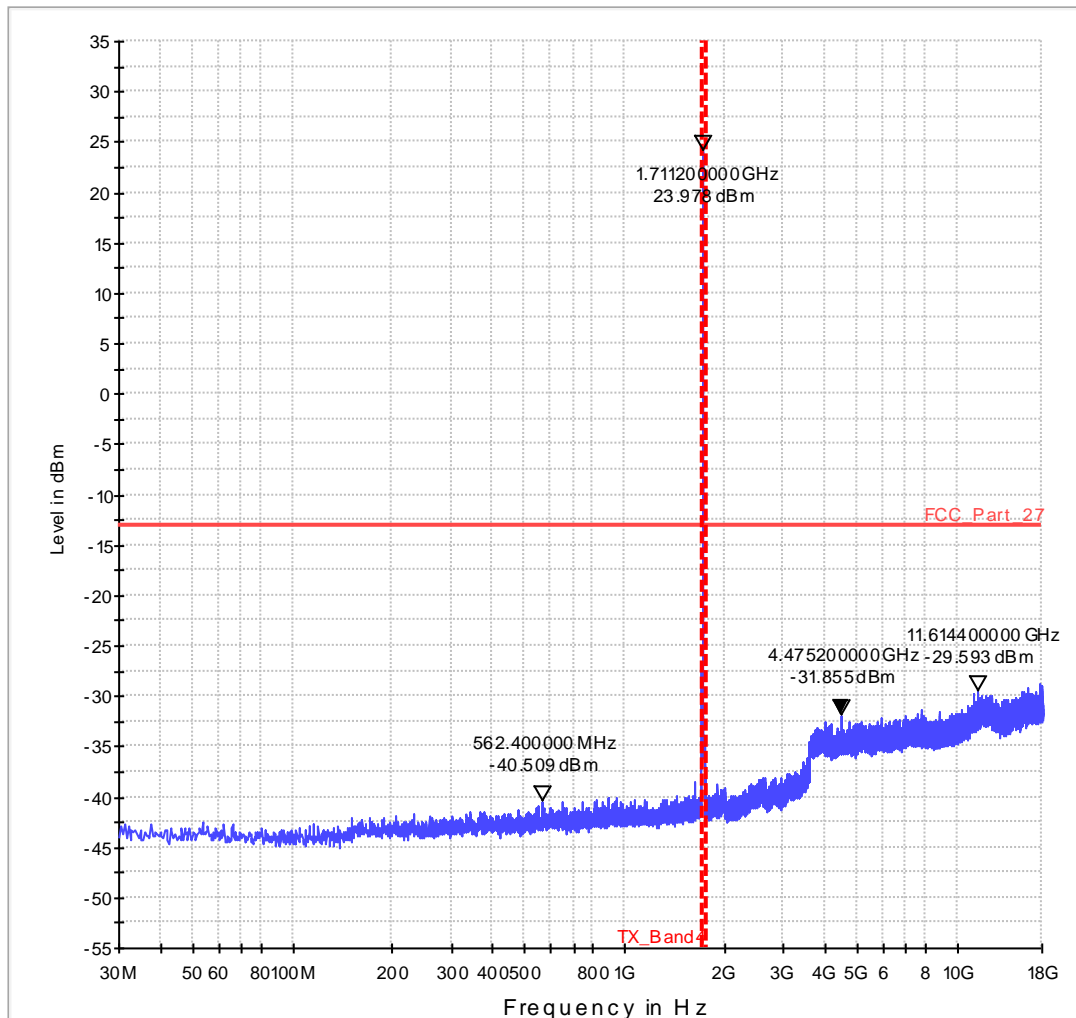


Diagram No.: 36.72_Ch1450_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1450 |
| Operator | MFr |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan1_9kHz_30MHz

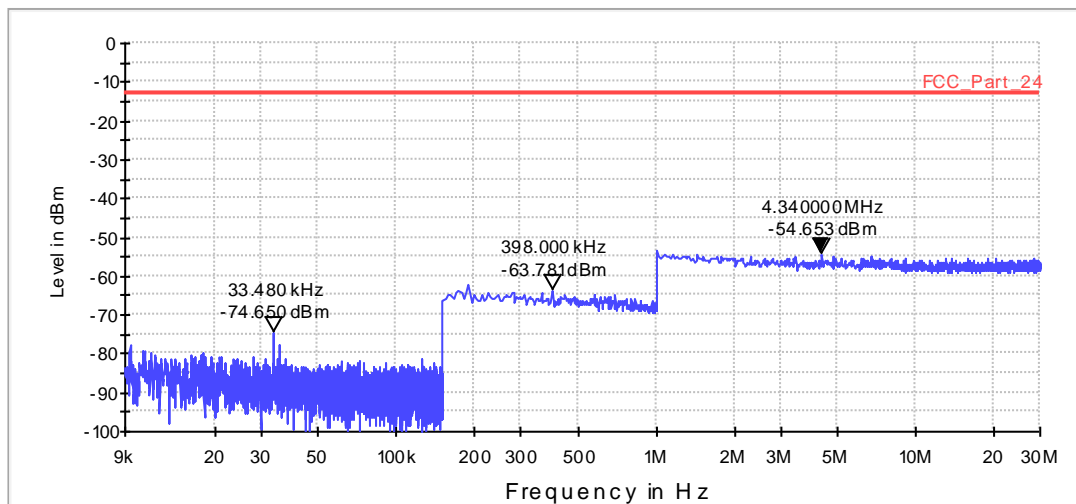


Diagram No.: 36.73_Ch1450_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1450 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan2_30MHz_18GHz

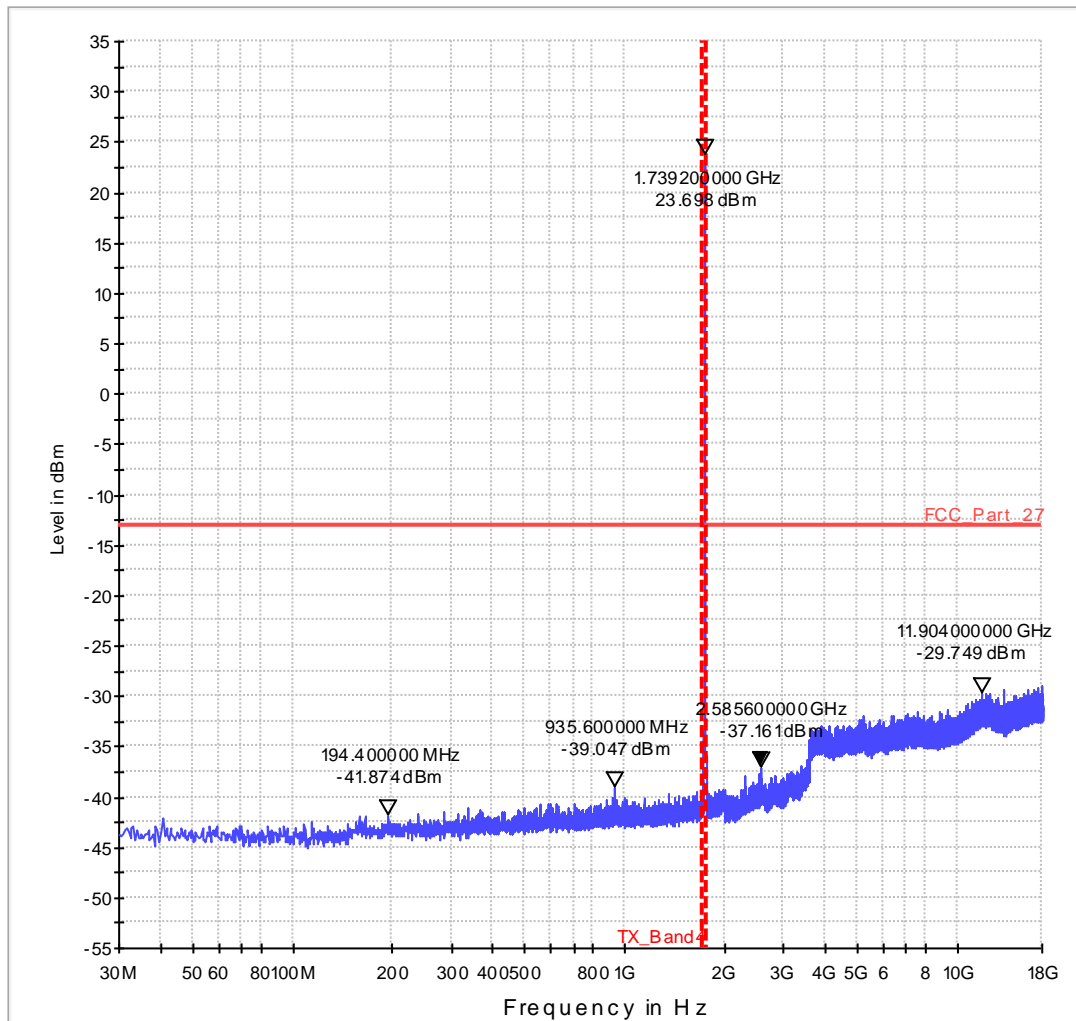


Diagram No.: 36.74_Ch1513_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1513 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan1_9kHz_30MHz

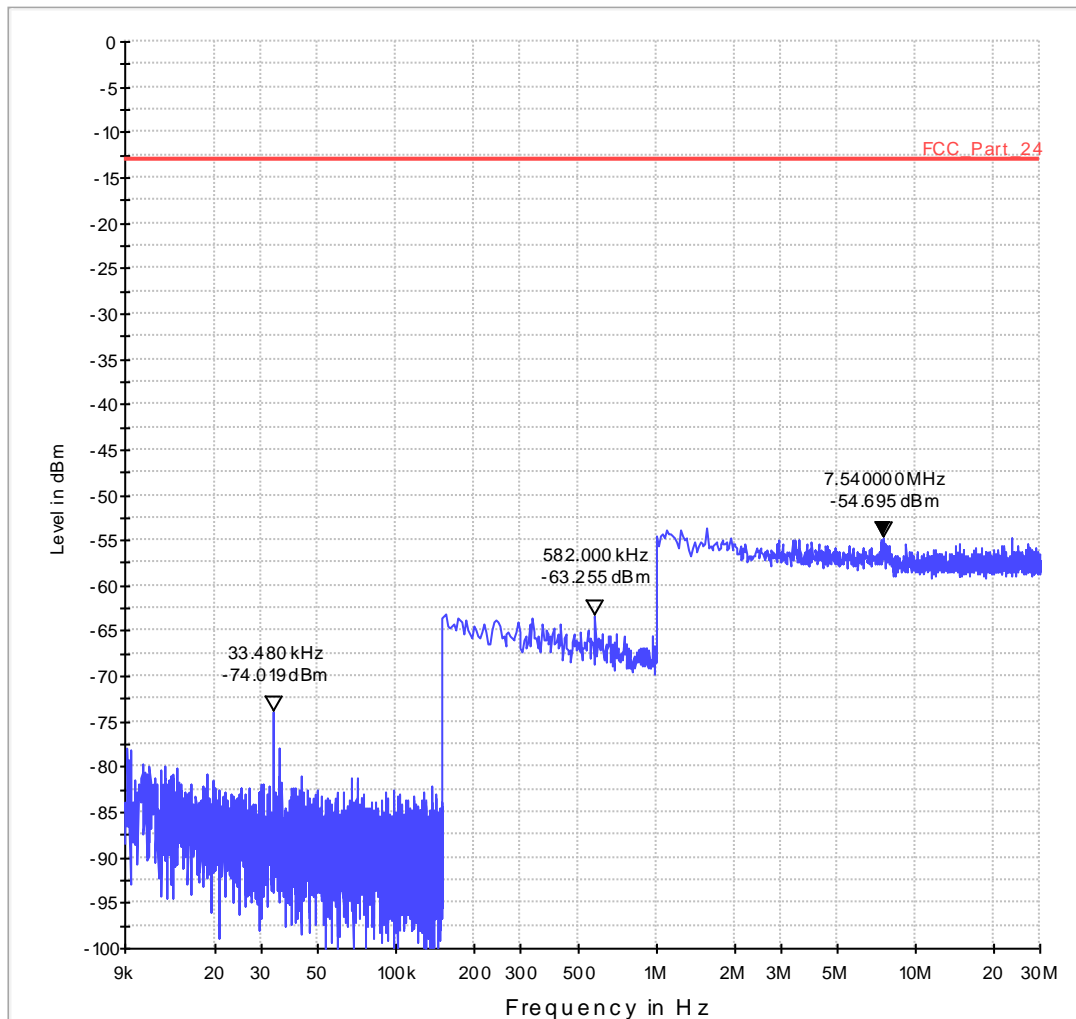


Diagram No.: 36.75_Ch1513_RMC_Sweep2

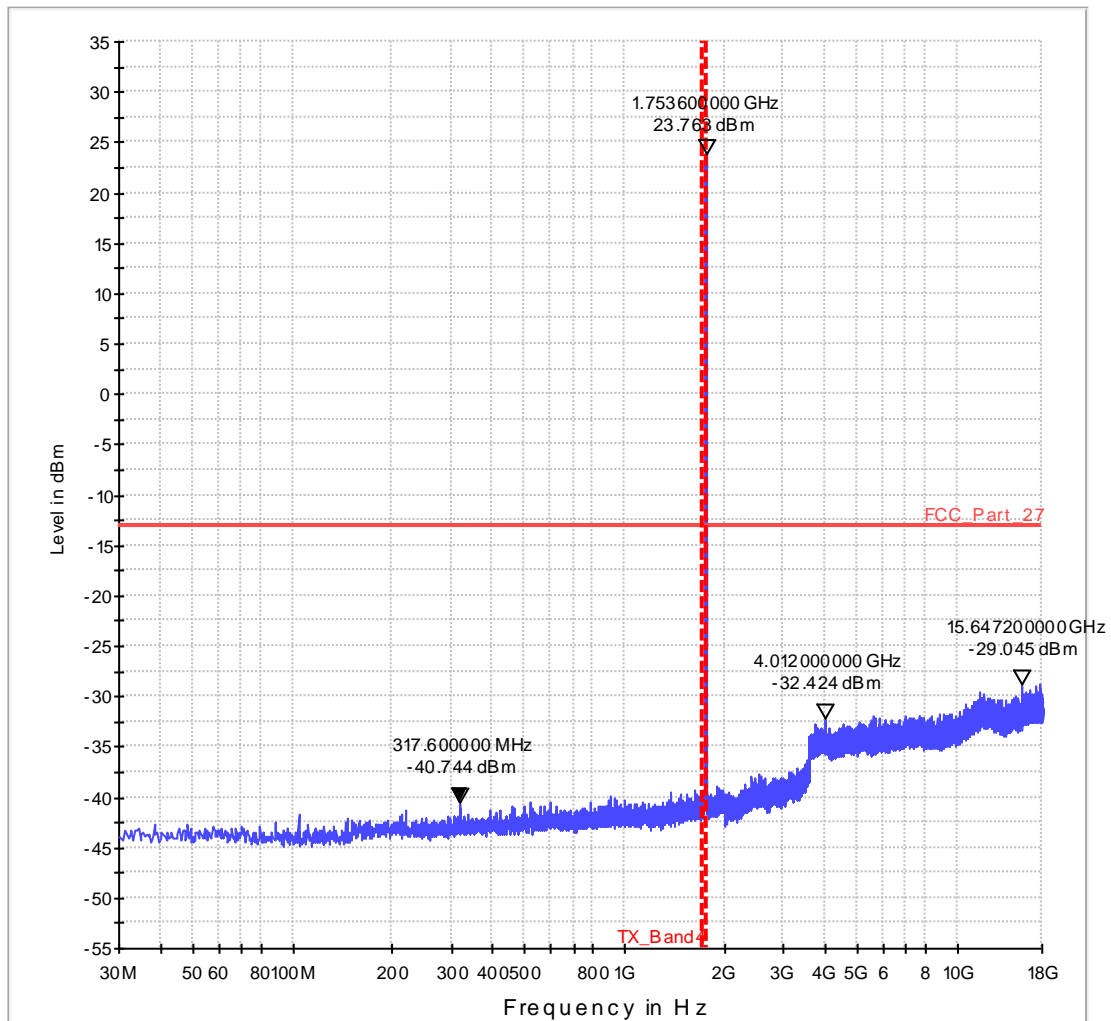
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1513 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_27_Scan2_30MHz_18GHz



1.12. Spurious emissions conducted on FDD Band V

Diagram No.: 36.40_Ch4132_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | mfr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan1_9kHz_30MHz

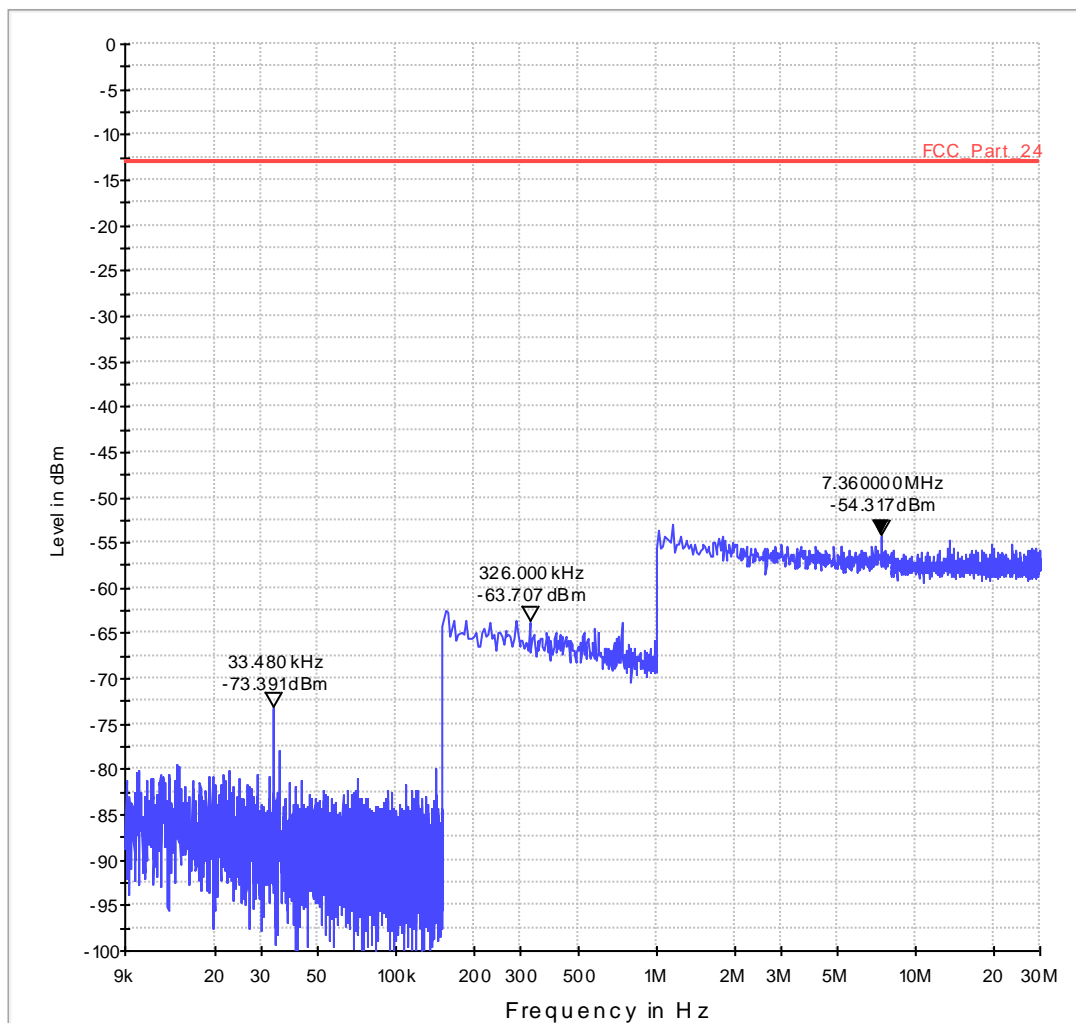


Diagram No.: 36.41_Ch4132_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan2_30MHz_9GHz

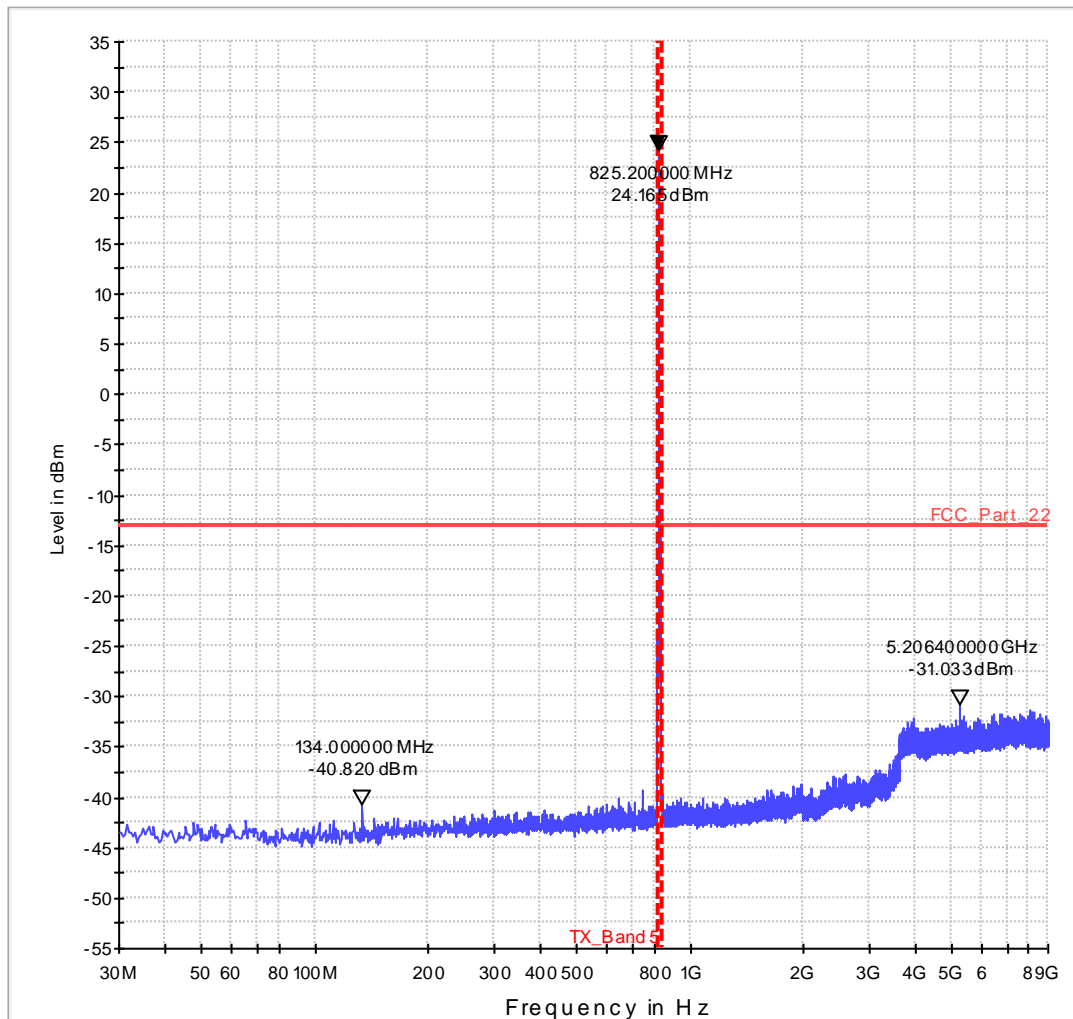


Diagram No.: 36.42_Ch4183_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4183 |
| Channel Bandwidth | -- |
| Operator | mfr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan1_9kHz_30MHz

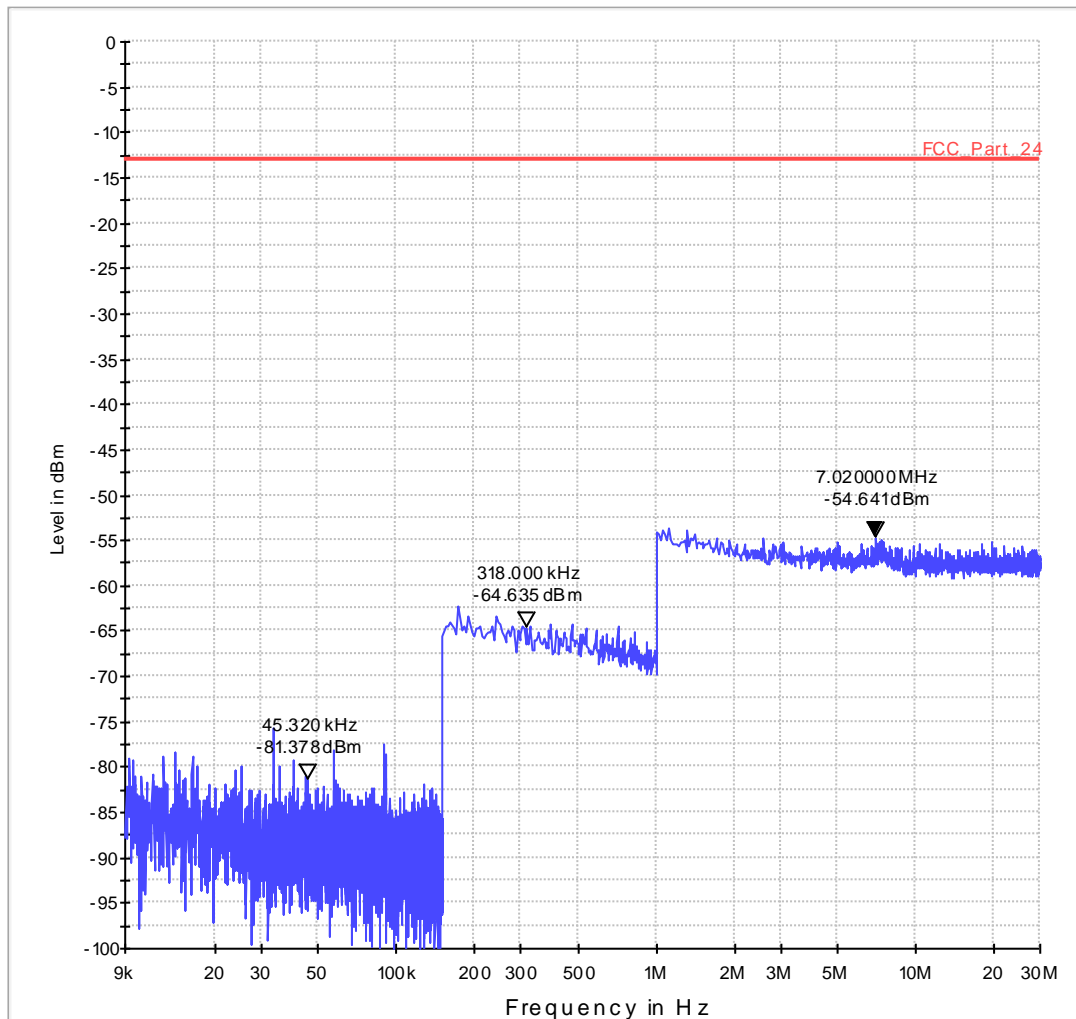


Diagram No.: 36.43_Ch4183_RMC_Sweep2

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4183 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan2_30MHz_9GHz

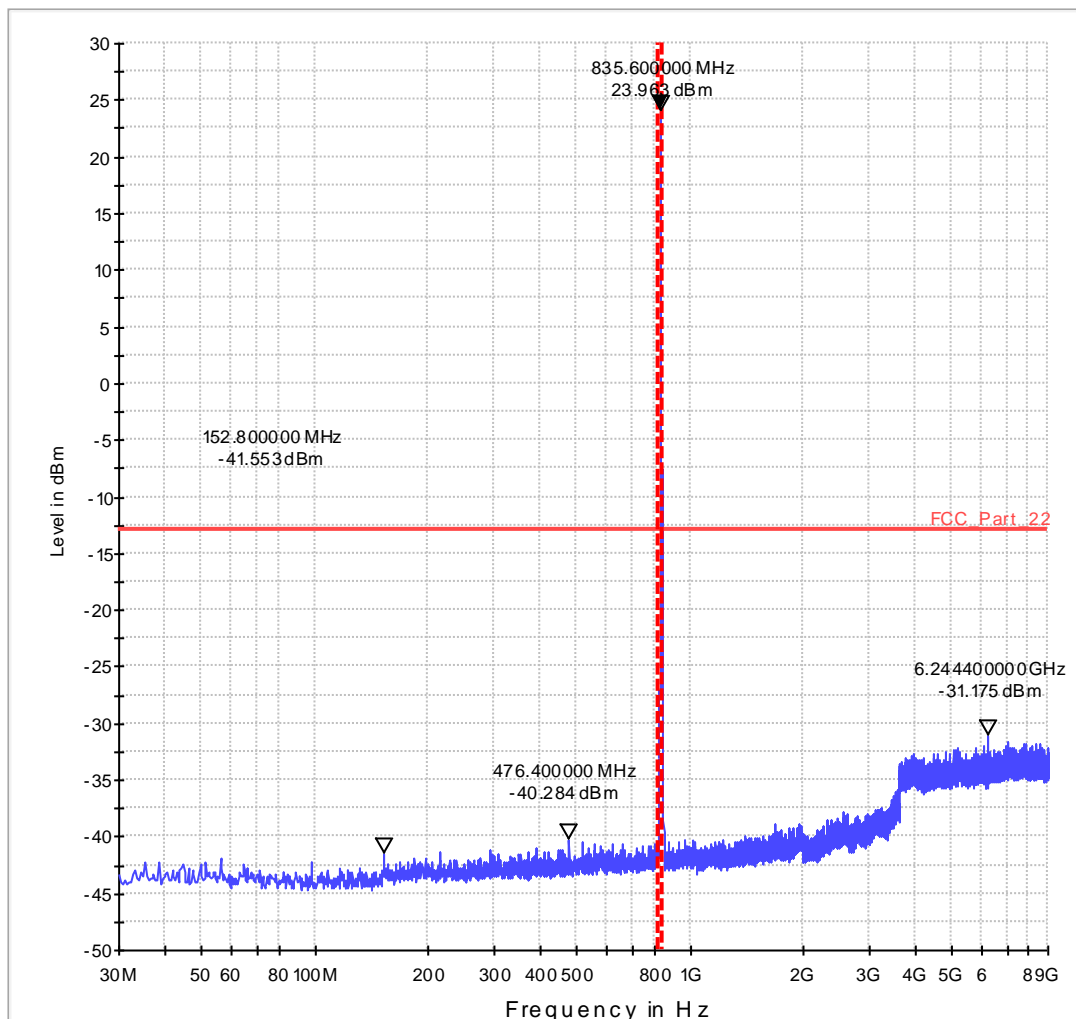


Diagram No.: 36.44_Ch4233_RMC_Sweep1

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Operator | MFr |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan1_9kHz_30MHz

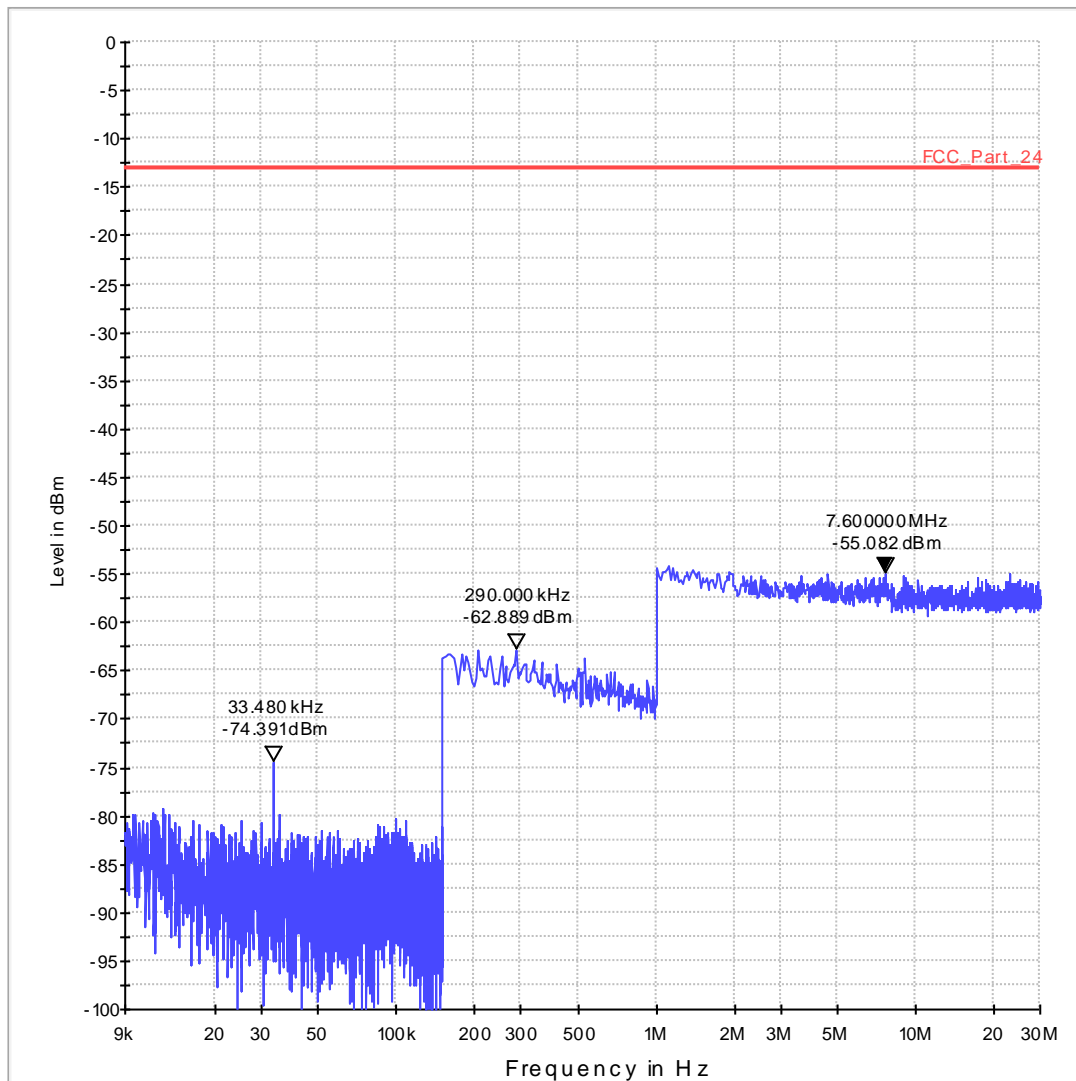


Diagram No.: 36.45_Ch4233_RMC_Sweep2

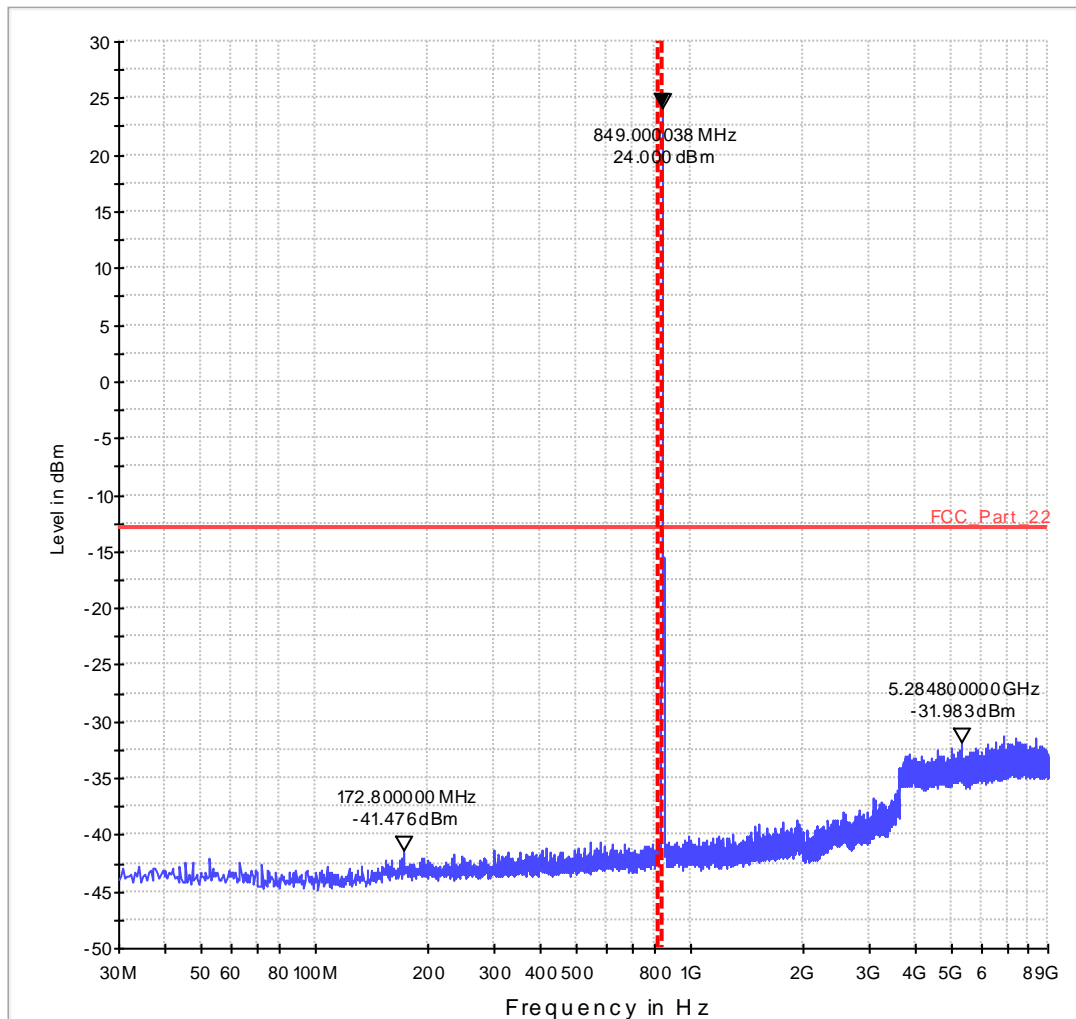
Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Channel Bandwidth | -- |
| Operator | MFr |
| Comment: | -- |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

Fula2_FCC_22_Scan2_30MHz_9GHz



1.13. 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 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9262 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_24_BE_LOW_9262

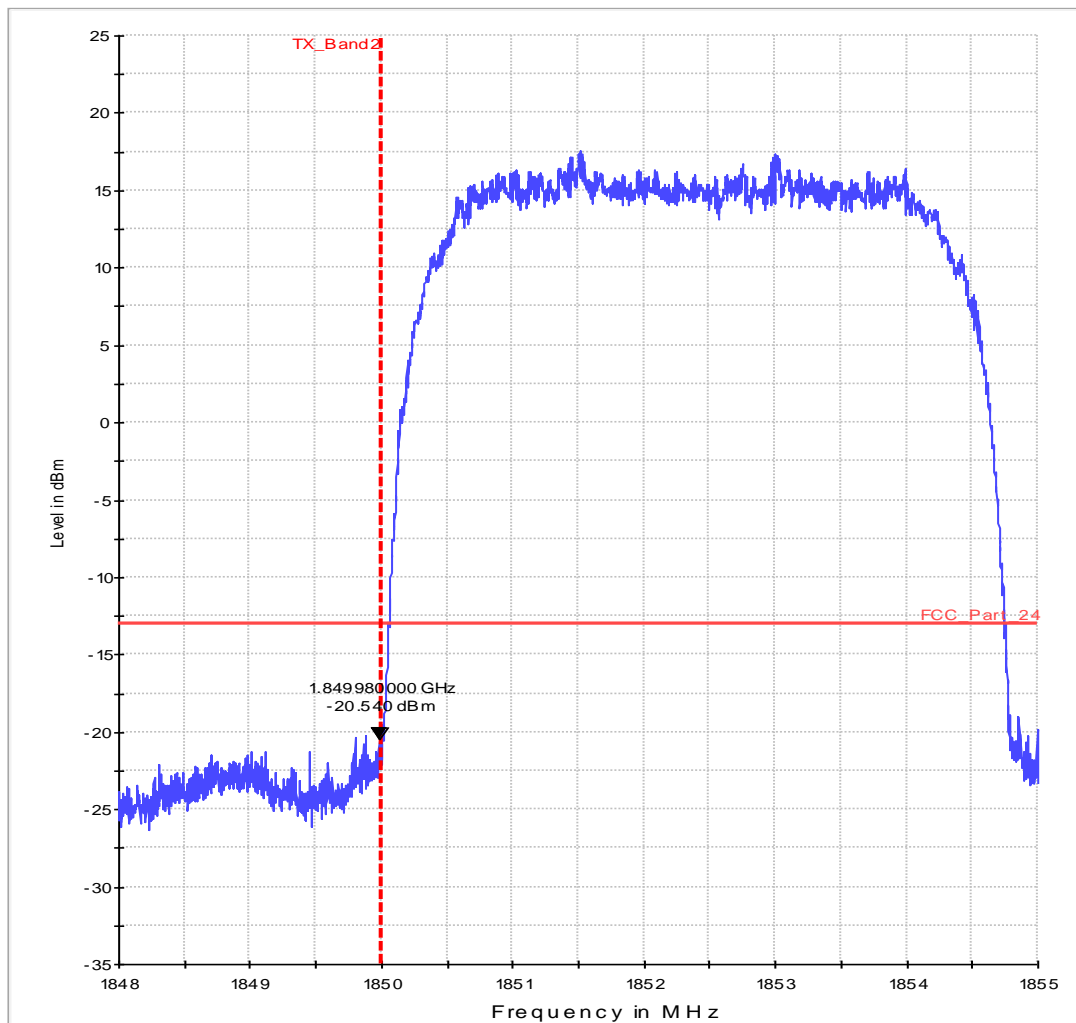
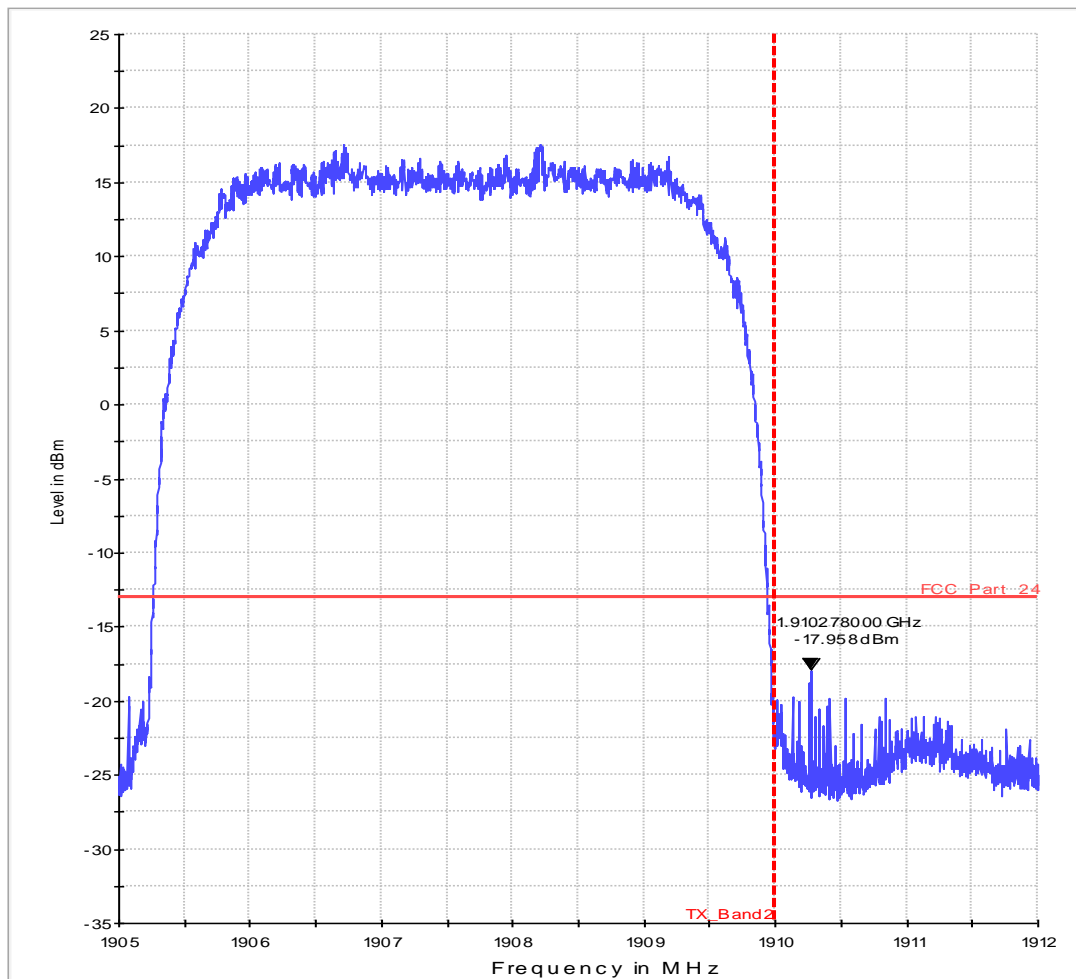


Diagram No.: 37.61_BE_Ch9538_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 24 / RSS-133, Issue 6 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B2 (RMC), Channel 9538 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_24_BE_High_9538



1.14. Conducted emissions on FDD Band IV band-edge

Diagram No.: 37.70_BE_Ch1312_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1312 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_27_BE_Low_1312

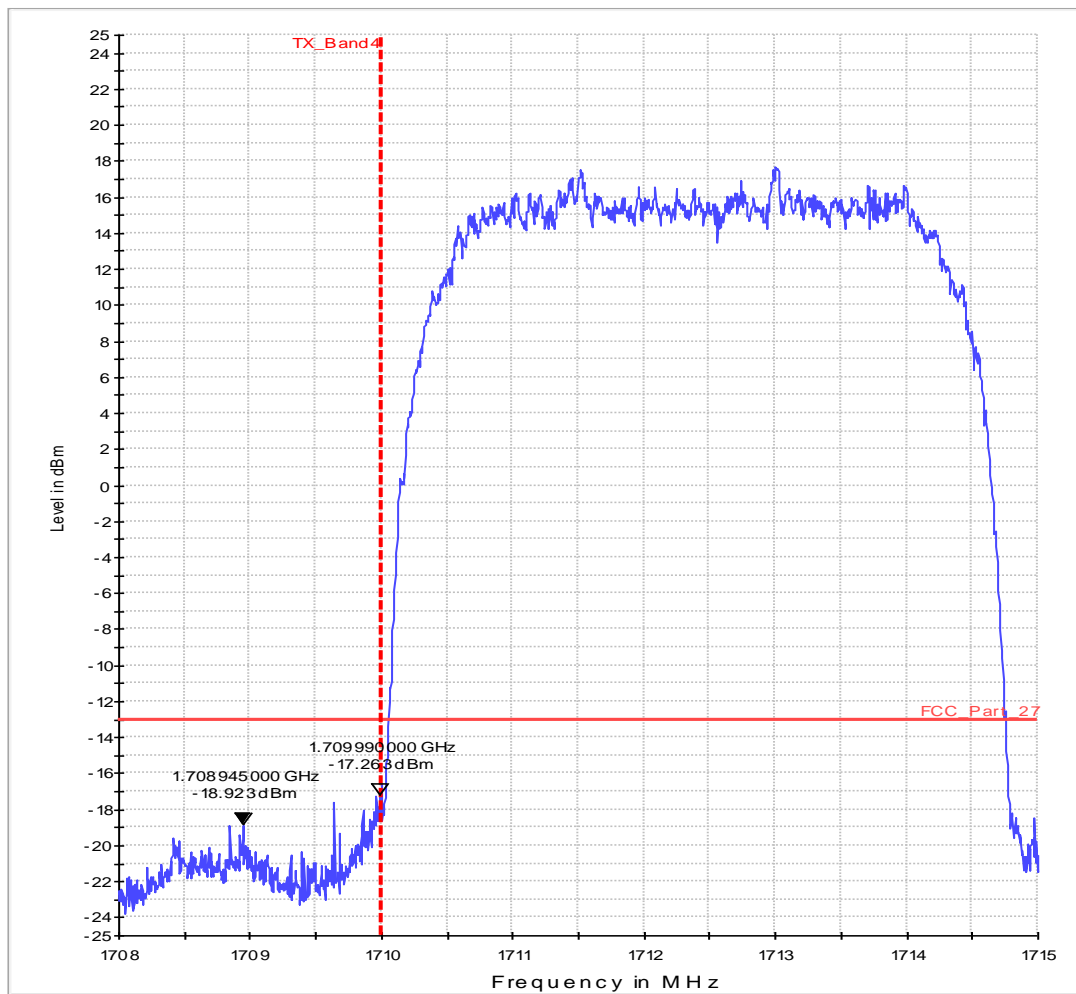
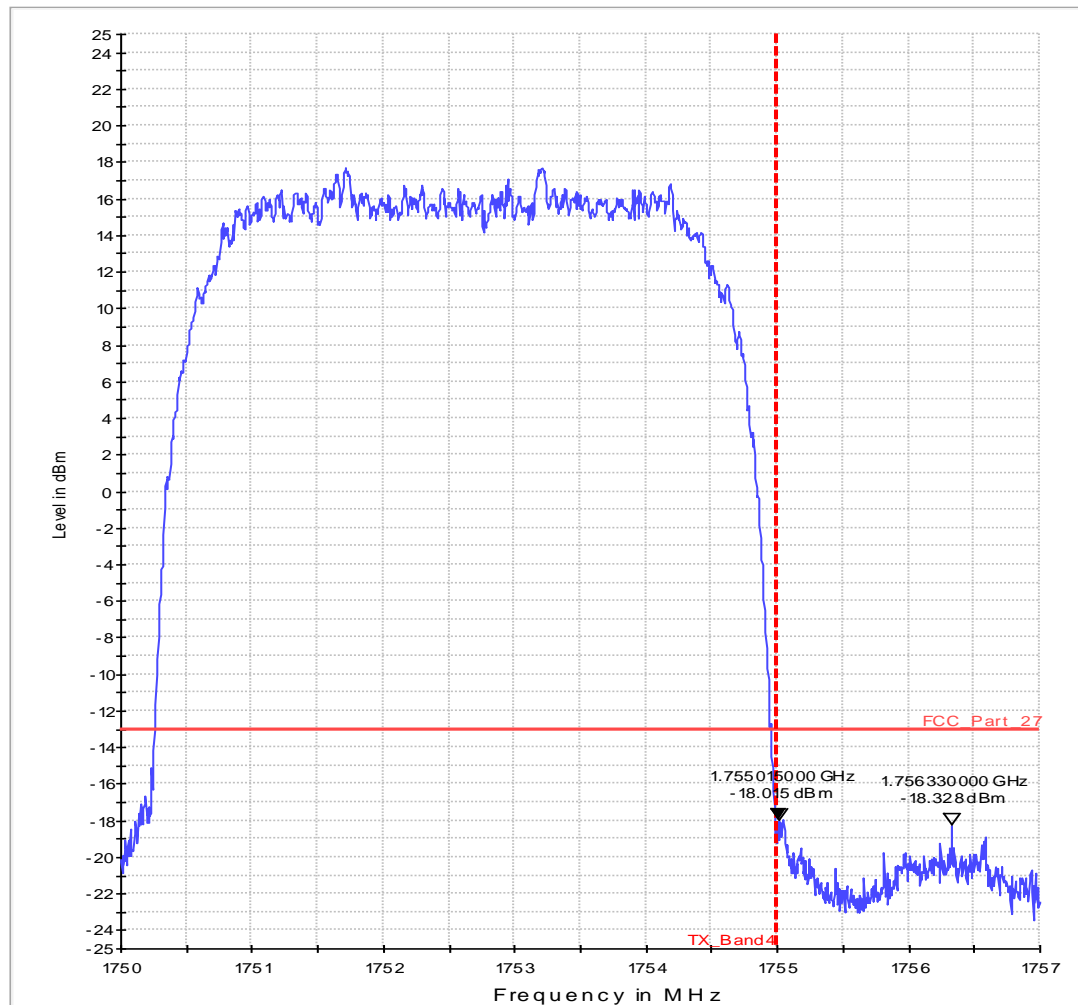


Diagram No.: 37.71_BE_Ch1513_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 27 / RSS-139, Issue 2 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - FDD B4 (RMC), Channel 1513 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_24_BE_High_1513



1.15. 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 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4132 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_22_BE_LOW_4132

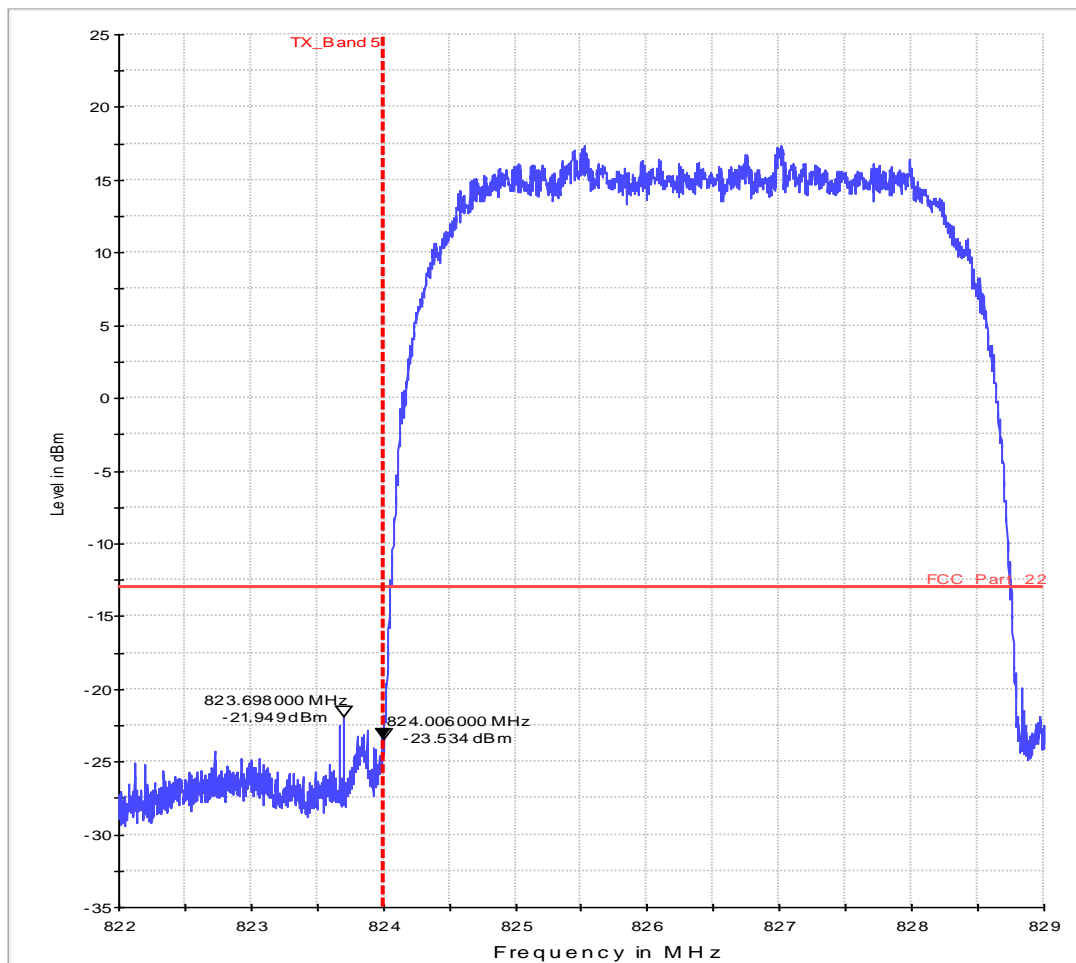
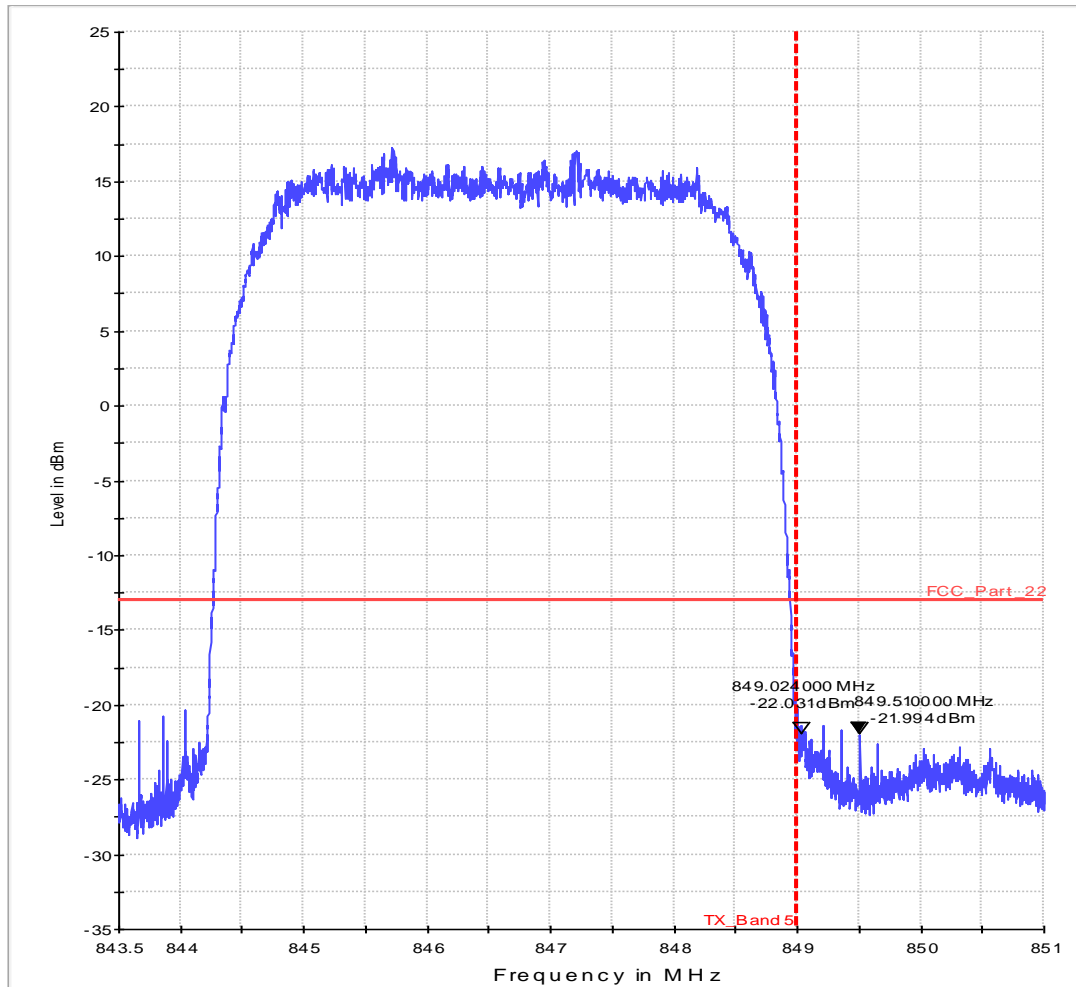


Diagram No.: 37.41_BE_Ch4233_RMC_PK

Common Information

| | |
|-------------------|--|
| Test Description: | TX Spurious Emission Conducted §2.1051 |
| Test Site: | Radio laboratory 2 |
| Test Standard: | FCC Part 22 / RSS-132, Issue 3 |
| SW-Version: | EMC32 V8.53.0 |
| Operation mode: | TX - UMTS B5 (RMC), Channel 4233 |
| Channel Bandwidth | -- |
| Operator | Lor |
| Comment: | -- |

Fula2_FCC_22_BE_High_4233



1.16. Magnetic field strength measurements (f<30MHz) accord. Part 15, Subpart C

1.16.1. FDD Band 2

Diagram No. 2.16_Ch9262_FDDII

| | | |
|--------------------------|---|-------------|
| Date: | 22.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD II RMC TX, ch 9262 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |
| Comment 2: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

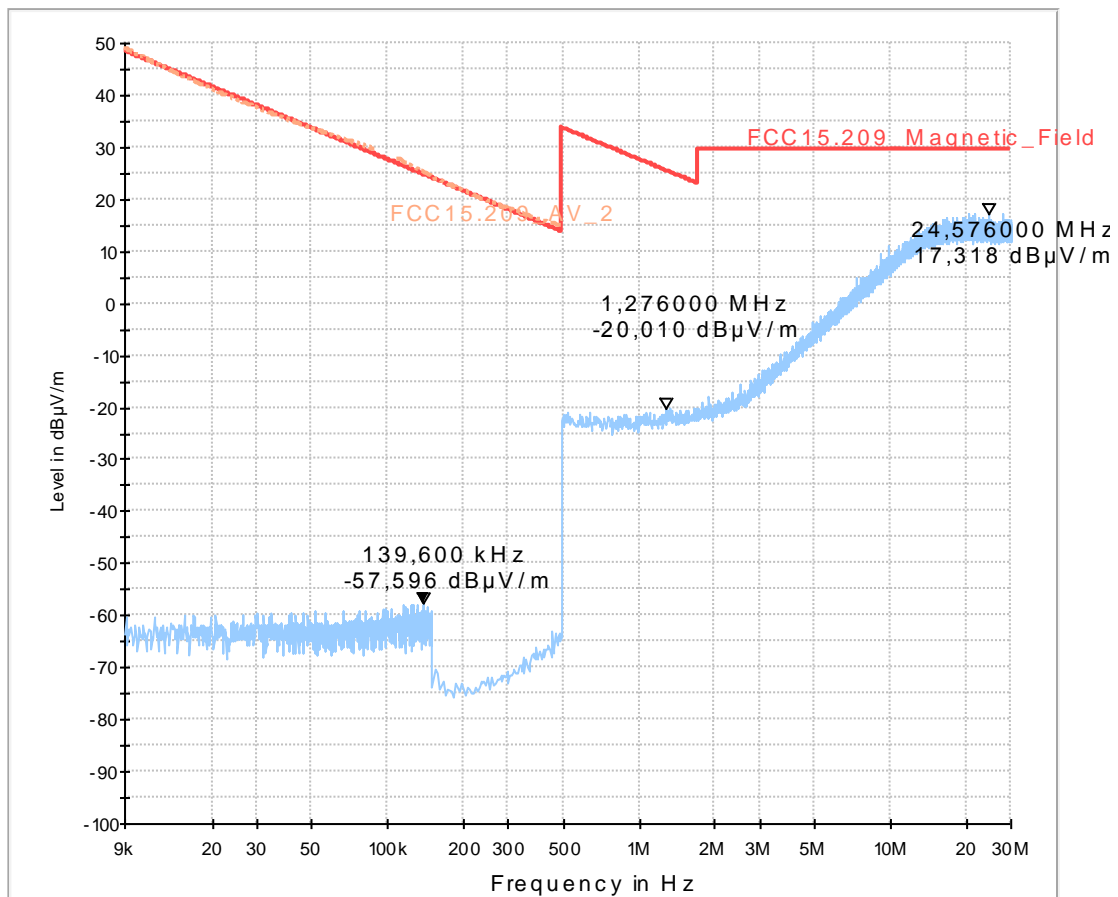


Diagram No. 2.17_Ch9400_FDDII

| | | |
|--------------------------|---|-------------|
| Date: | 22.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD II RMC TX, ch 9400 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |
| Comment 2: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

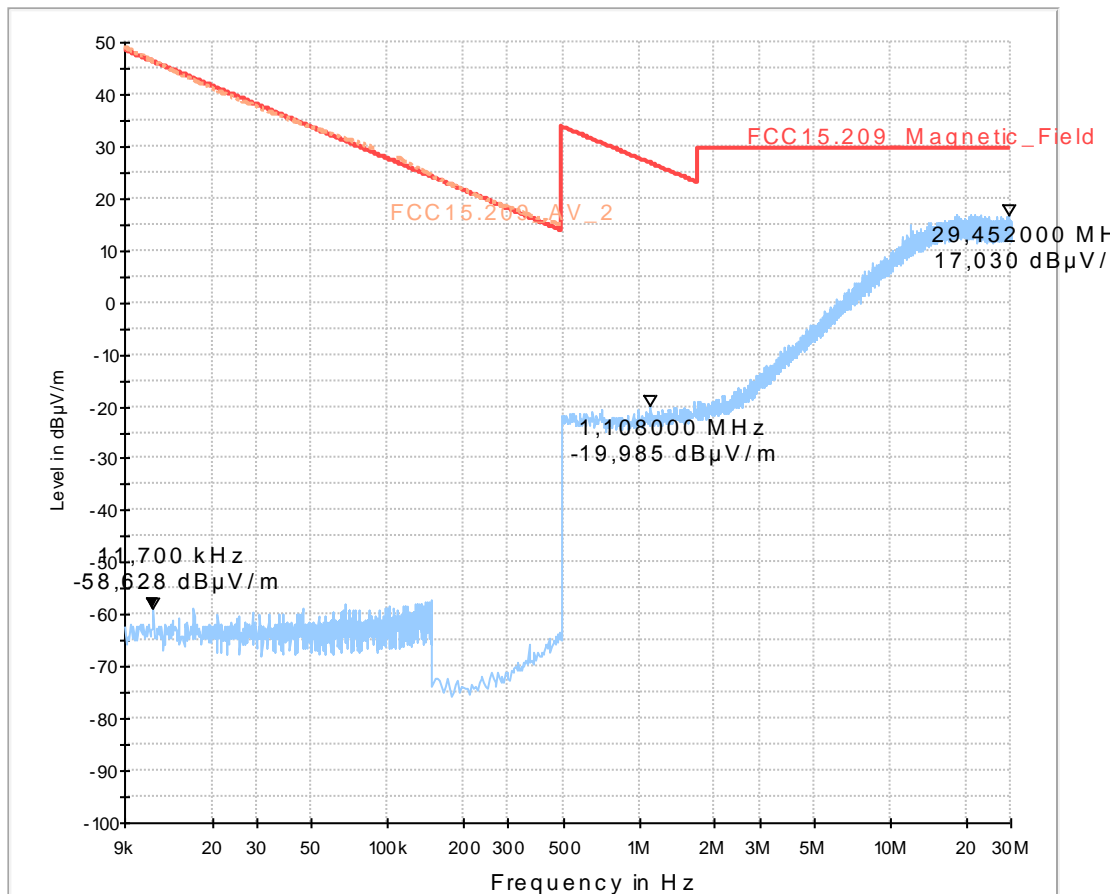
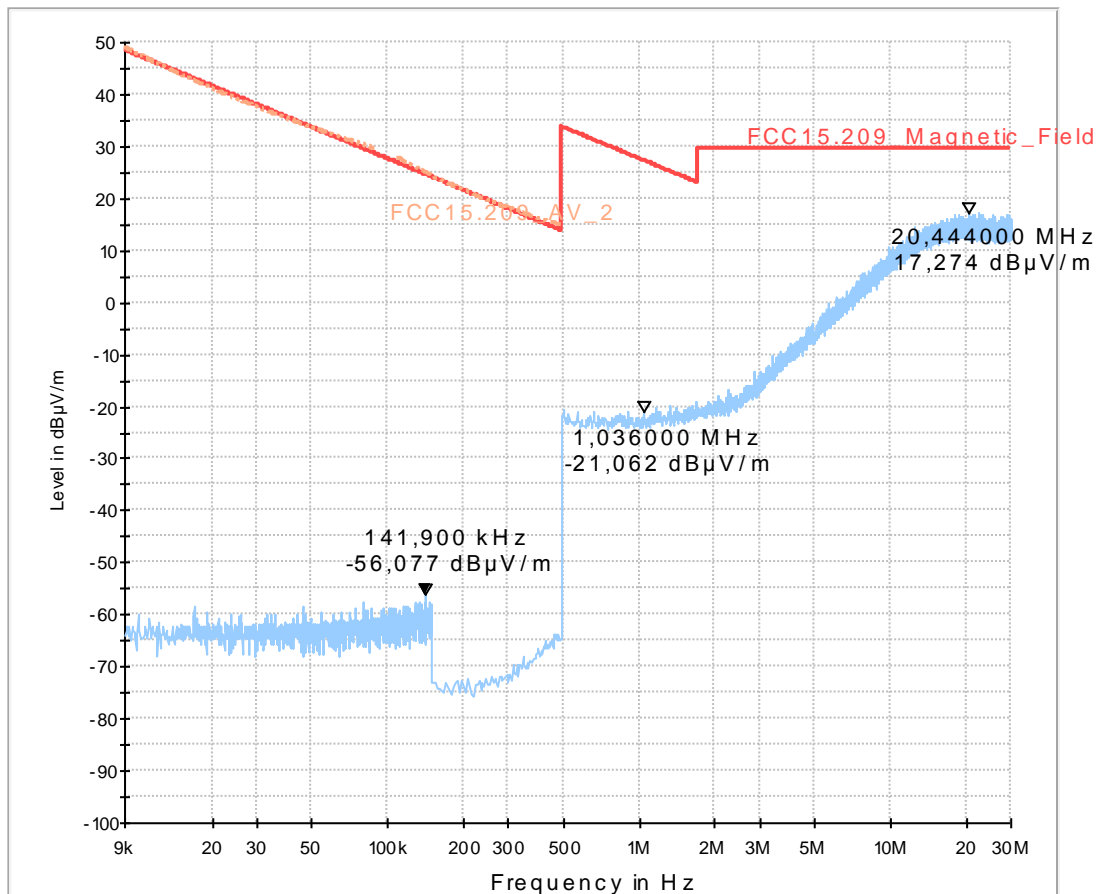


Diagram No. 2.18_Ch9538_FDDII

| | | |
|--------------------------|---|-------------|
| Date: | 22.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD II RMC TX, ch 9538 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |
| Comment 2: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |



1.16.2. FDD Band 4

Diagram No. 2.10_Ch1312_FDD4

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD IV RMC, ch 1312 | |
| Power during tests: | 12V DC on DSB75 | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

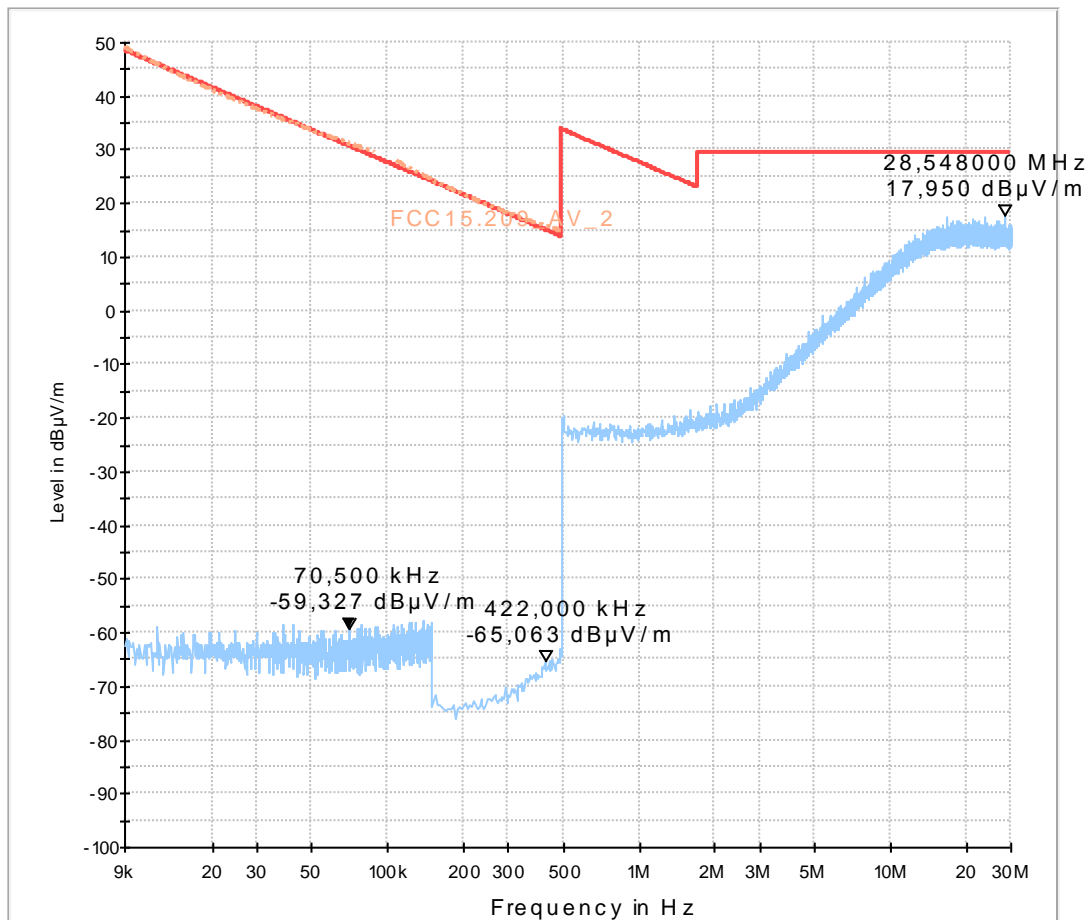


Diagram No. 2.11_Ch1450_FDD4

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD IV RMC, ch 1450 | |
| Power during tests: | 12V DC on DSB75 | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

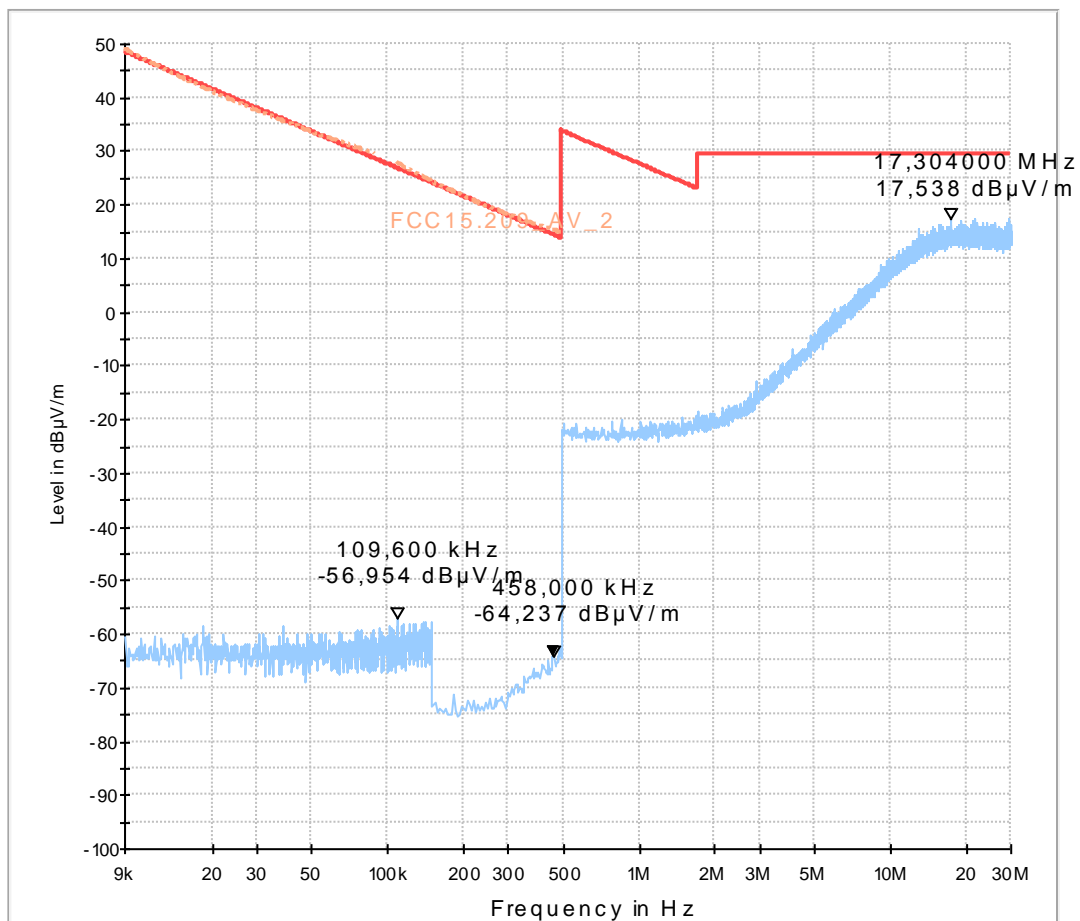
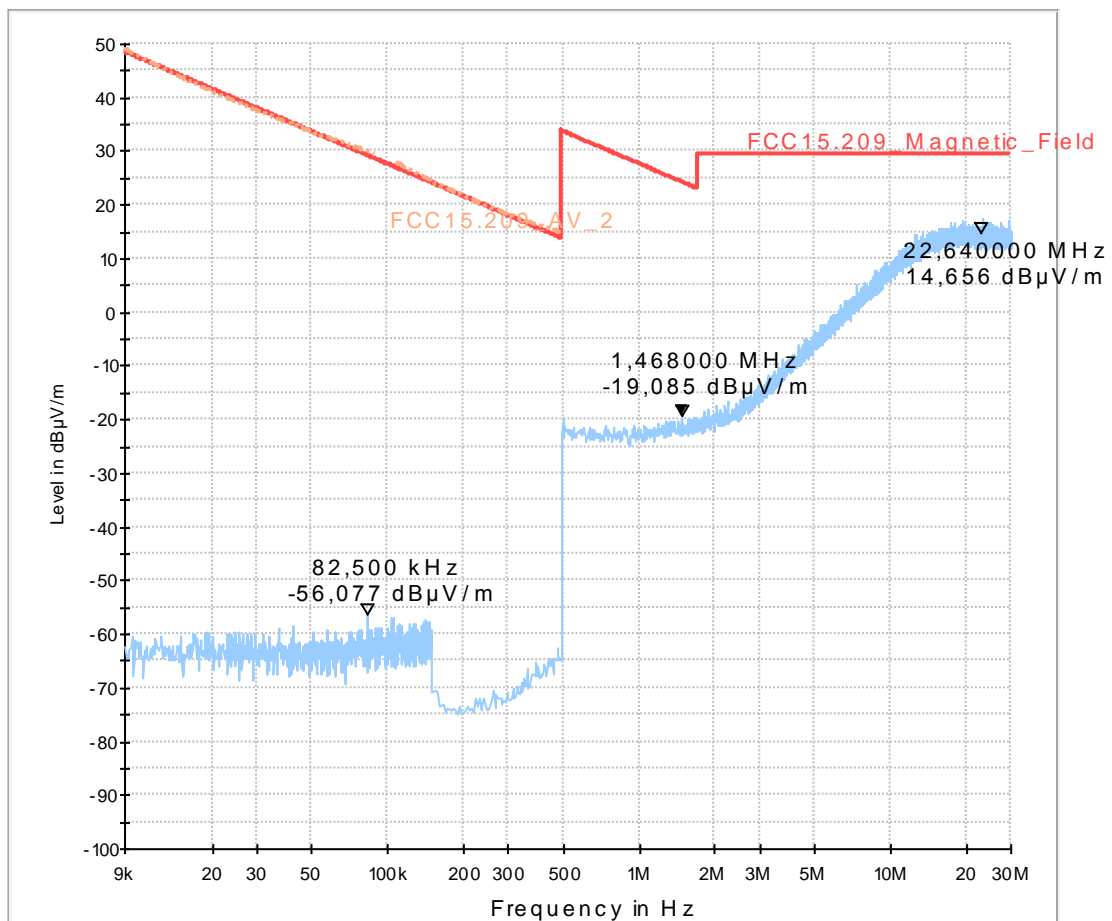


Diagram No. 2.12_Ch1513_FDD4

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD IV RMC, ch 1513 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |



1.16.3. FDD Band 5

Diagram No. 2.13_Ch4132_FDDV

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD V RMC TX, ch 4132 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

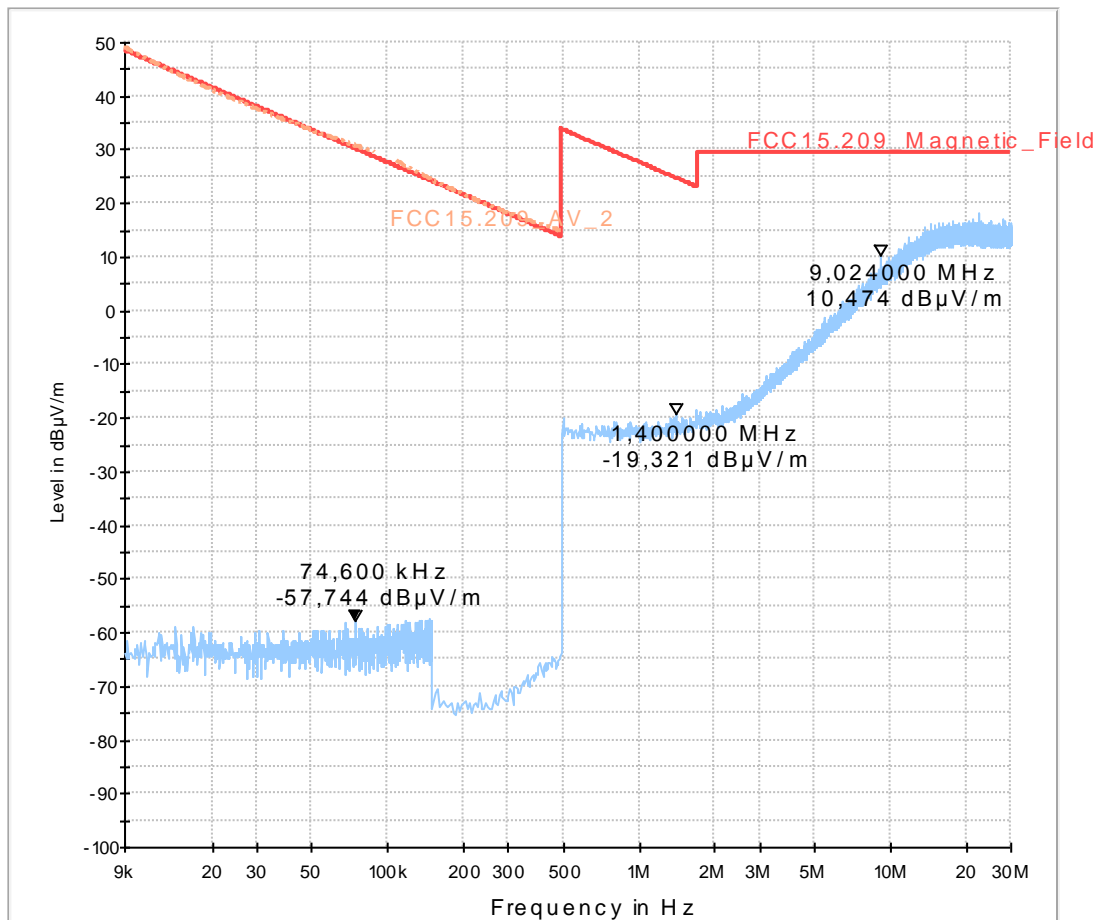


Diagram No. 2.14_Ch4183_FDDV

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD V RMC TX, ch 4183 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

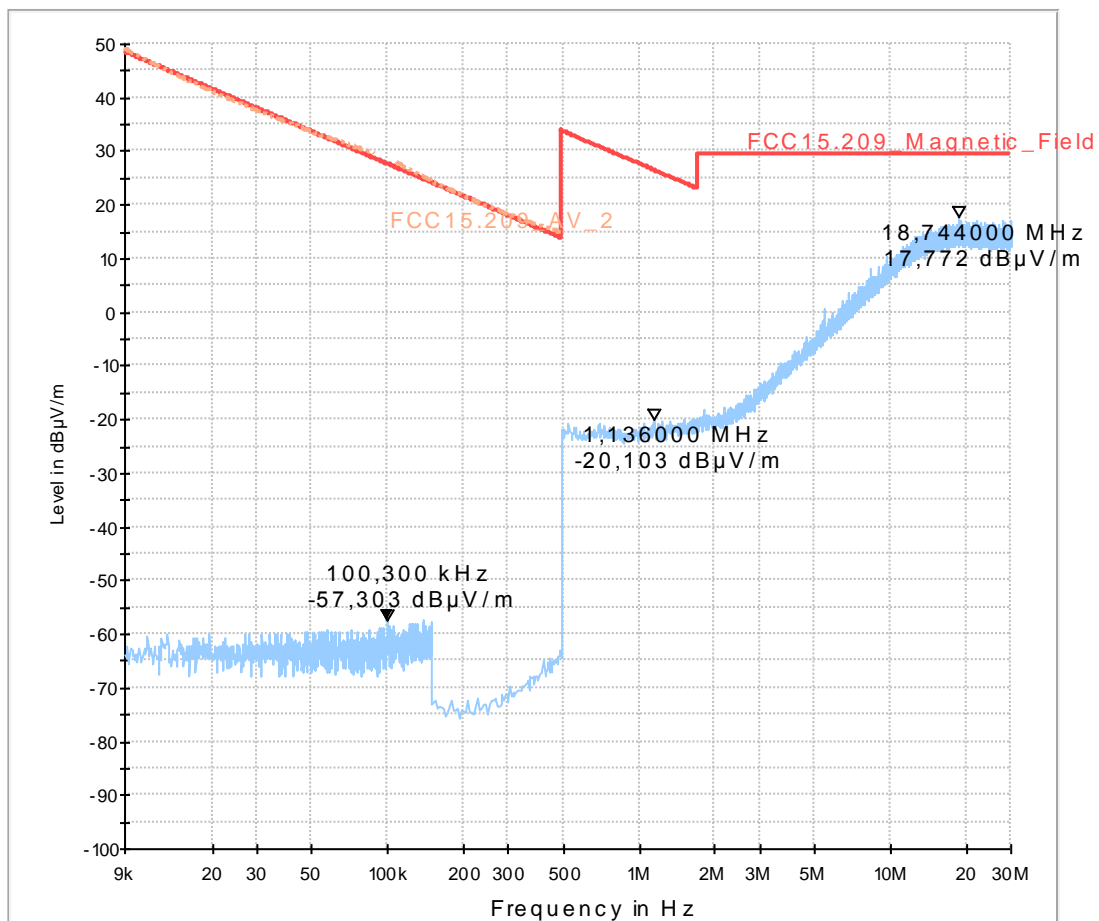


Diagram No. 2.15_Ch4233_FDDV

| | | |
|--------------------------|---|-------------|
| Date: | 21.03.2015 | 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 | |
| Operator: | Lor | |
| Operating conditions: | WCDMA FDD V RMC TX, ch 4233 | |
| Power during tests: | 12V DC | |
| Comment 1: | | |

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | WMC0534PX8 (d) |
| Manufacturer: | Gemalto |
| Serial Number: | #0044010814211345 |
| Hardware Rev: | 2.3 |
| Software Rev: | 02.502 |
| Comment: | -- |

