

Annex 1: Measurement diagrams 18-1-0173201T47a-C3-A1

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|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| Number of pages: | 13 | Date of Report: | 2021-Jan-05 |
| Testing company: | CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150 | Applicant: | Actia Nordic AB |
| Test Object / Tested Device(s): | Telematics Device / 103250101 | | |
| FCC ID: | 2AGKK103250101 | | |
| Testing has been carried out in accordance with: | Title 47 CFR, Chapter I FCC Regulations, Subchapter B Part 22 Subpart H, Part 24 Subpart E, Part 27 Subpart C RSS-130 Issue 2, RSS-132 Issue 5, RSS-133 Issue 6, RSS-139 Issue 3 RSS Gen Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". | | |



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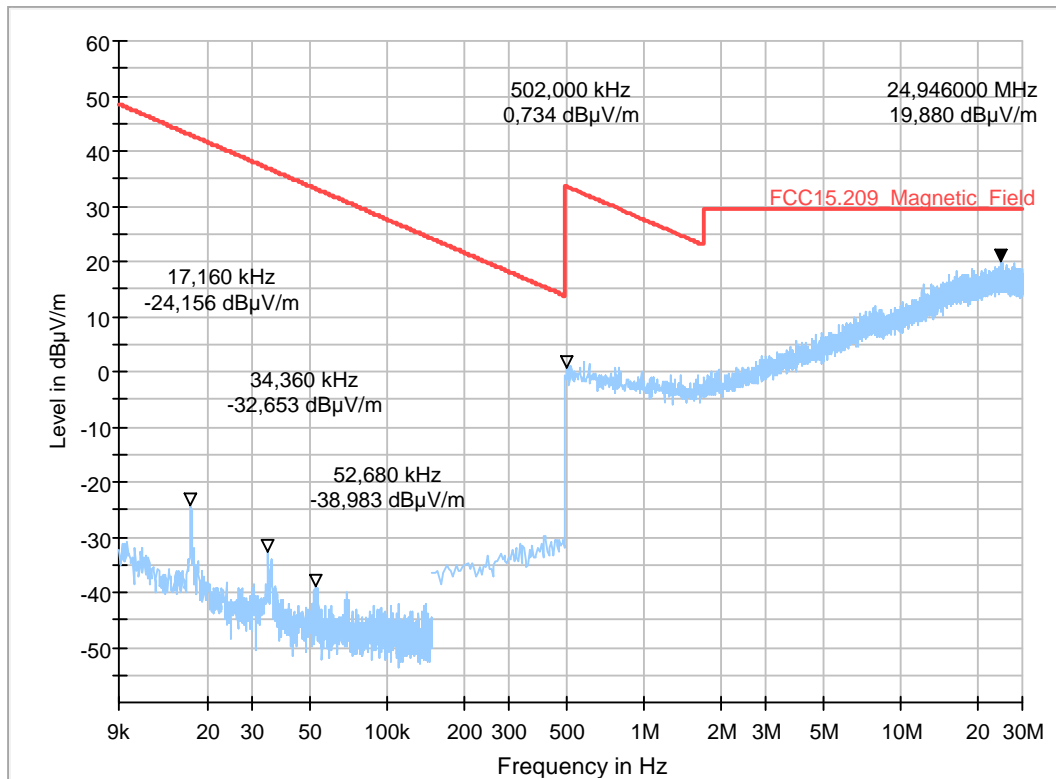
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1 Measurement diagrams

2.01_Magnetic_Emission_GSM_850_EUT_laying

| Common information | |
|--------------------------|------------------------------------------------------------------|
| Test Description | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test Site | SAC1 |
| Test Standard | FCC 15.205 § 15.209; RSS-Gen: Issue 5 |
| Operation Mode | 1 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | TFra |
| Verdict | Passed |
| Comment | EUT Elevation: 0°(Laying) |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

Full Spectrum



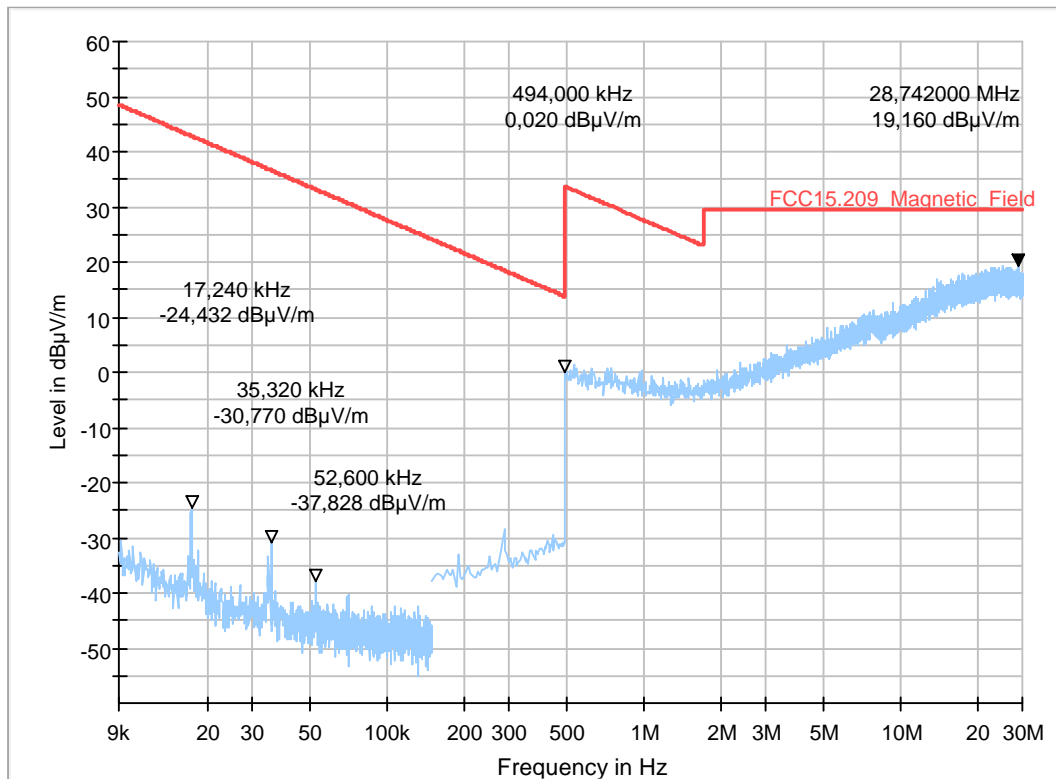
Remarks:

- There is no Critical frequency found.

2.02_Magnetic_Emission_GSM_850_EUT_standing

| Common information | |
|--------------------------|------------------------------------------------------------------|
| Test Description | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test Site | SAC1 |
| Test Standard | FCC 15.205 § 15.209; RSS-Gen: Issue 5 |
| Operation Mode | 1 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | TFra |
| Verdict | Passed |
| Comment | EUT Elevation: 90°(Standing) |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

Full Spectrum



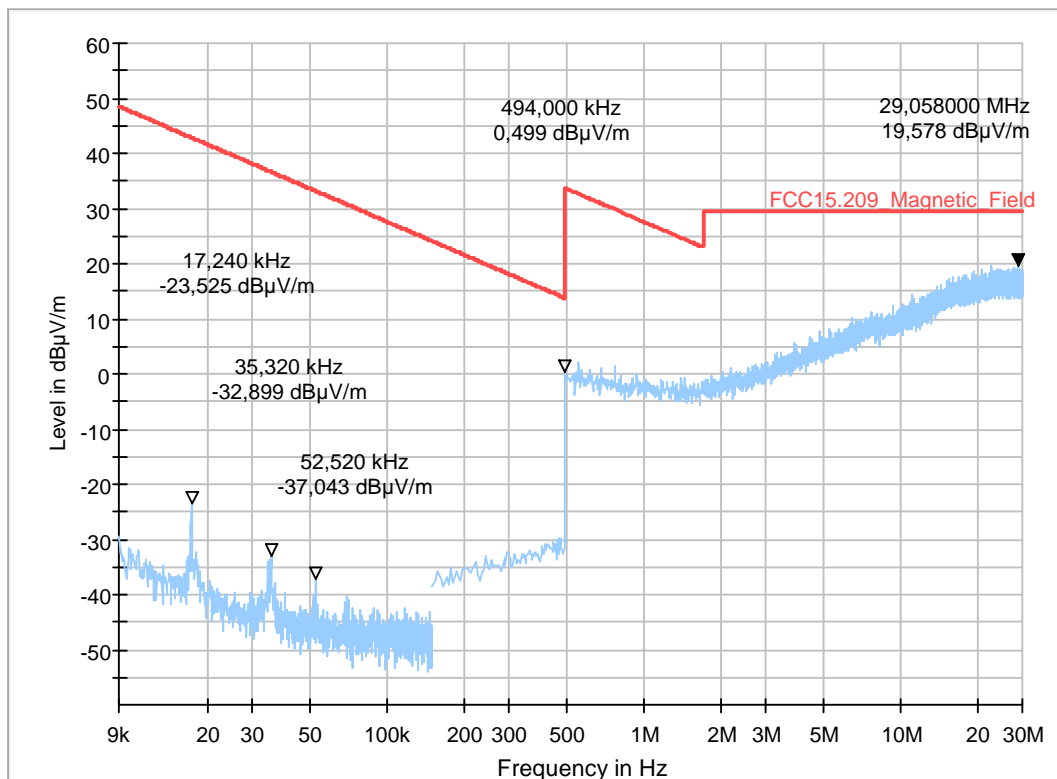
Remarks:

- There is no Critical frequency found.

2.03_Magnetic_Emission_GSM_1900_EUT_laying

| Common information | |
|--------------------------|------------------------------------------------------------------|
| Test Description | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test Site | SAC1 |
| Test Standard | FCC 15.205 § 15.209; RSS-Gen: Issue 5 |
| Operation Mode | 2 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | TFra |
| Verdict | Passed |
| Comment | EUT Elevation: 0°(Laying) |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

Full Spectrum



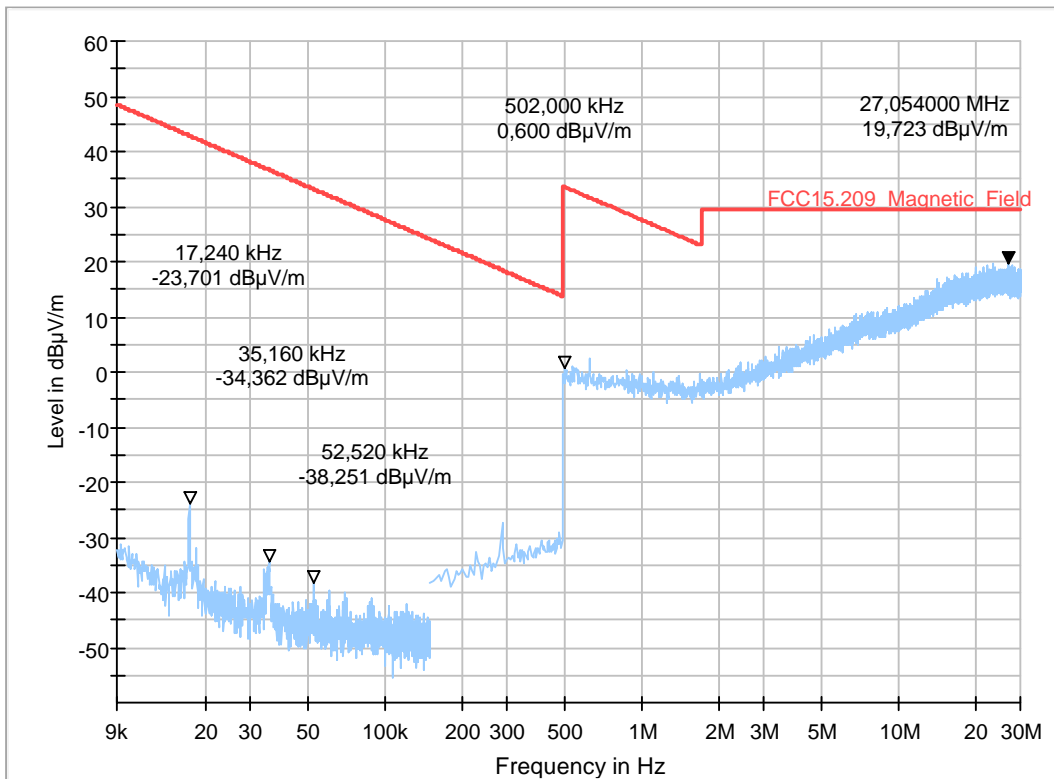
Remarks:

- There is no Critical frequency found.

2.04_Magnetic_Emission_GSM_1900_EUT_standing

| Common information | |
|--------------------------|------------------------------------------------------------------|
| Test Description | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test Site | SAC1 |
| Test Standard | FCC 15.205 § 15.209; RSS-Gen: Issue 5 |
| Operation Mode | 2 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | TFra |
| Verdict | Passed |
| Comment | EUT Elevation: 90°(Standing) |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

Full Spectrum

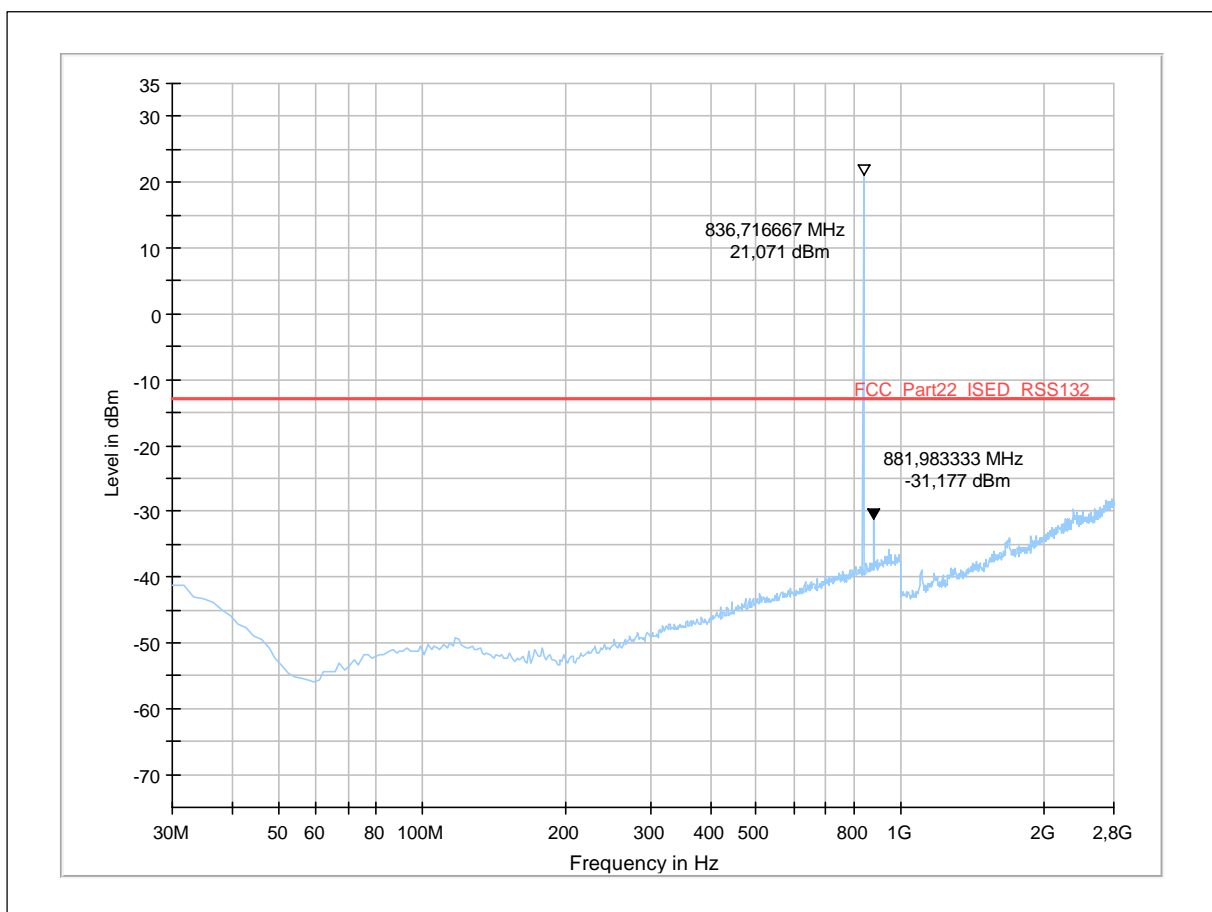


Remarks:

- There is no Critical frequency found.

8.01a_Traffic_mode_GSM_850_Channel_189_UL_836.4MHz_30MHz_2.8GHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Spurious Emission |
| Test Site | FAC1 |
| Operation Mode | 1 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | HEI |
| Verdict | Passed |
| Test Completed | 08.01.2020 19:49:38 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

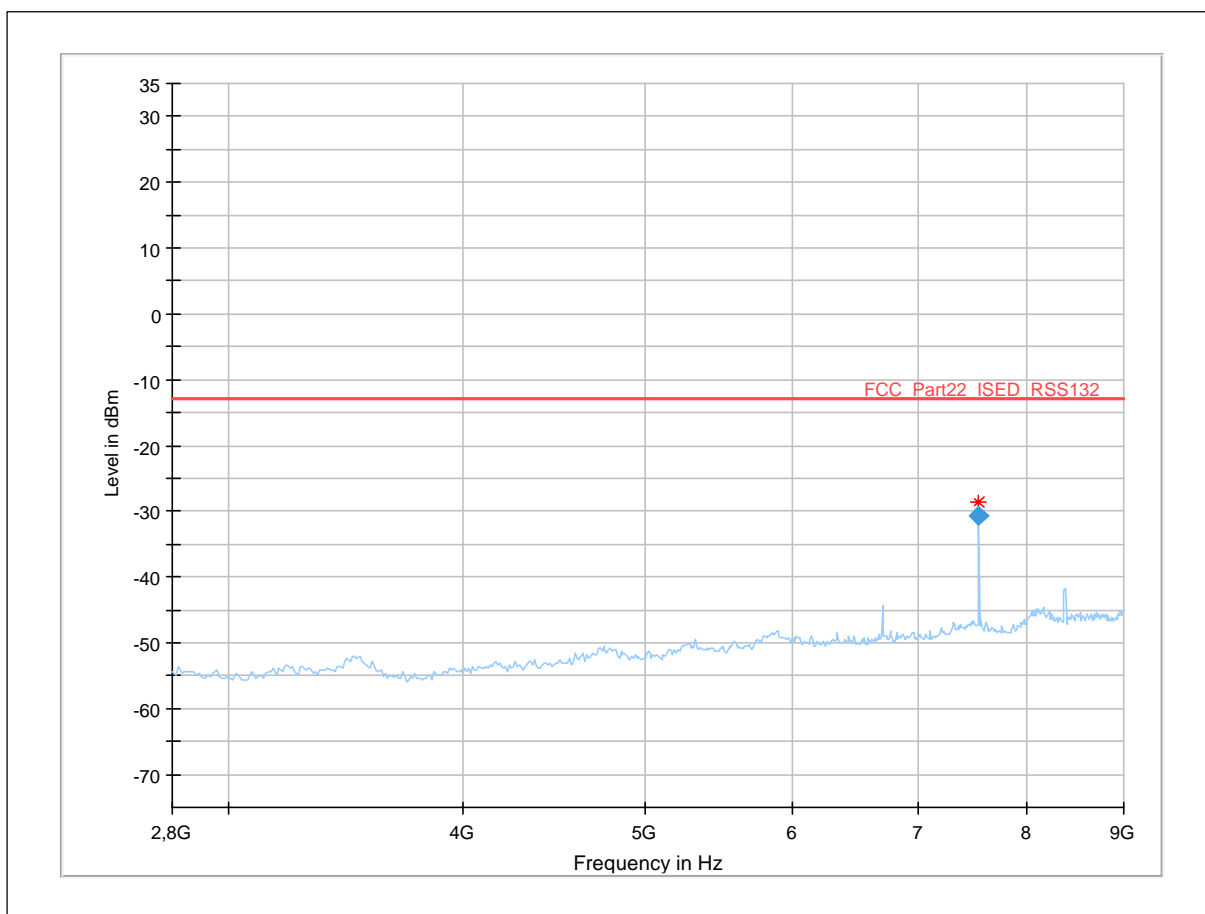


Remarks:

- Emission at 836.716667 MHz is Uplink frequency of GSM 850, not related to Results.

8.01b_Traffic_mode_GSM_850_Channel_189_UL_836.4MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Spurious Emission |
| Test Site | FAC1 |
| Test Standard | FCC Part 22.917(a) |
| Operation Mode | 1 |
| Environmental Conditions | Humidity : 40% rH; Temperature: 21 °C |
| Operator | LKu |
| Verdict | PASSED |
| Test Completed | 09.01.2020 09:11:51 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

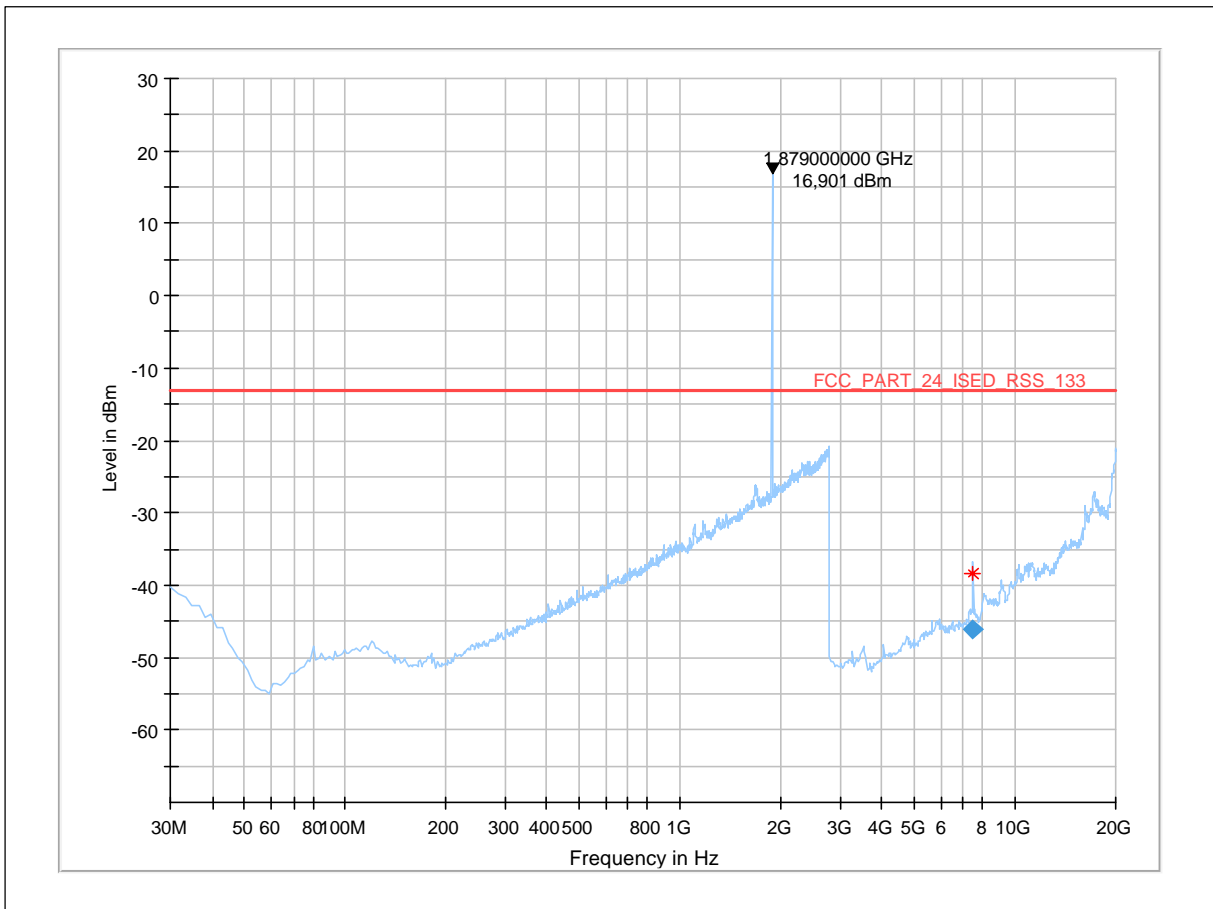


MaxPeak

| Frequency [MHz] | MaxPeak [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Pol | Azimuth [deg] | Elevation [deg] | Results |
|-----------------|---------------|-------------|-------------|-------------|-----|---------------|-----------------|---------|
| 7533.6 | -30.7 | -13 | 17.7 | 155 | V | 298 | 0 | PASSED |

8.02_Traffic_mode_GSM_1900_Channel_661_UL_1880.0MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Spurious Emission |
| Test Site | FAC1 |
| Test Standard | FCC FCC Part 24.238 Broadband PCS |
| Operation Mode | 2 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | HEI |
| Verdict | PASSED |
| Test Completed | 08.01.2020 20:45:14 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |



Remarks:

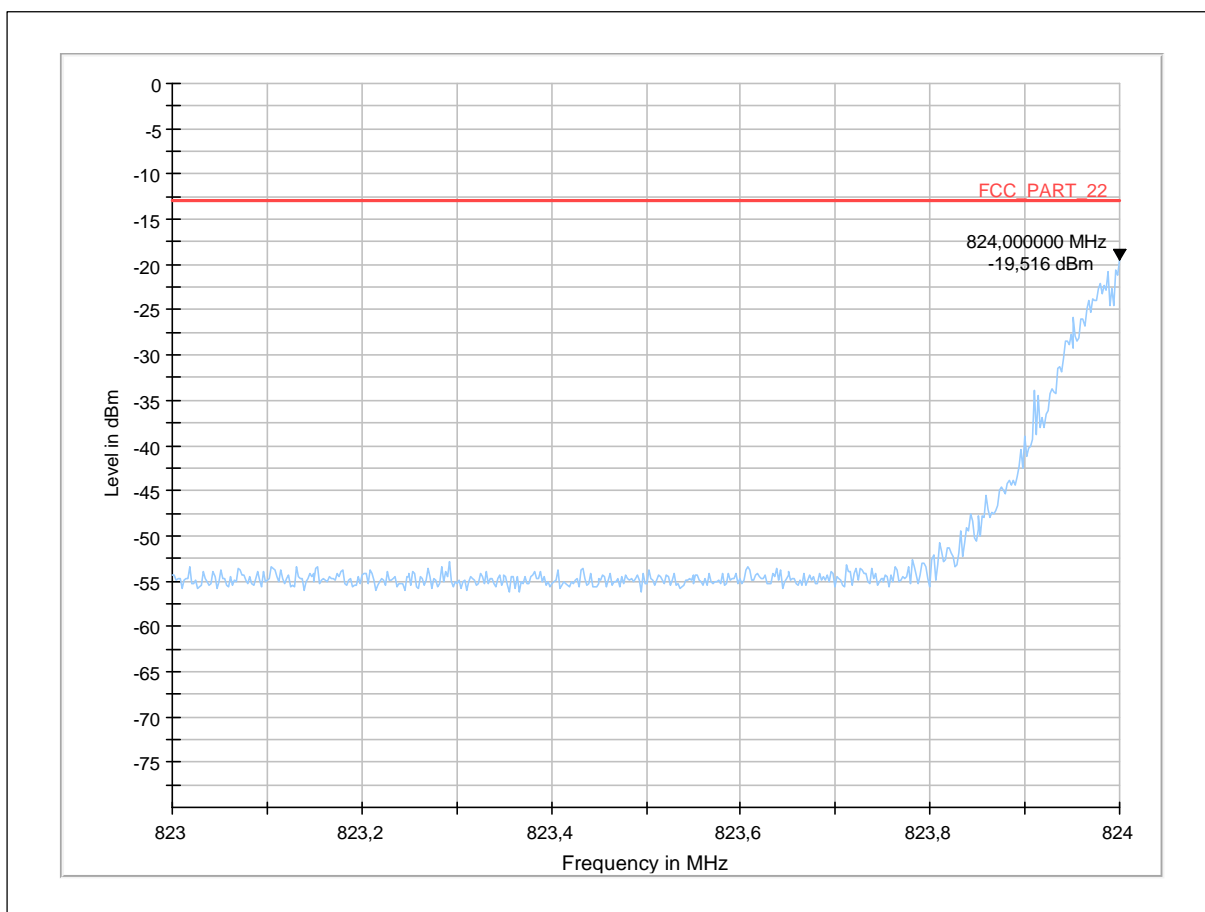
- Emission at 1.879000000 GHz is Uplink frequency of GSM 1900, not related to Results.

MaxPeak

| Frequency [MHz] | MaxPeak [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Pol | Azimuth [deg] | Elevation [deg] | Results |
|-----------------|---------------|-------------|-------------|-------------|-----|---------------|-----------------|---------|
| 7497.7 | -46.16 | -13 | 33.16 | 155 | V | 343 | 0 | PASSED |

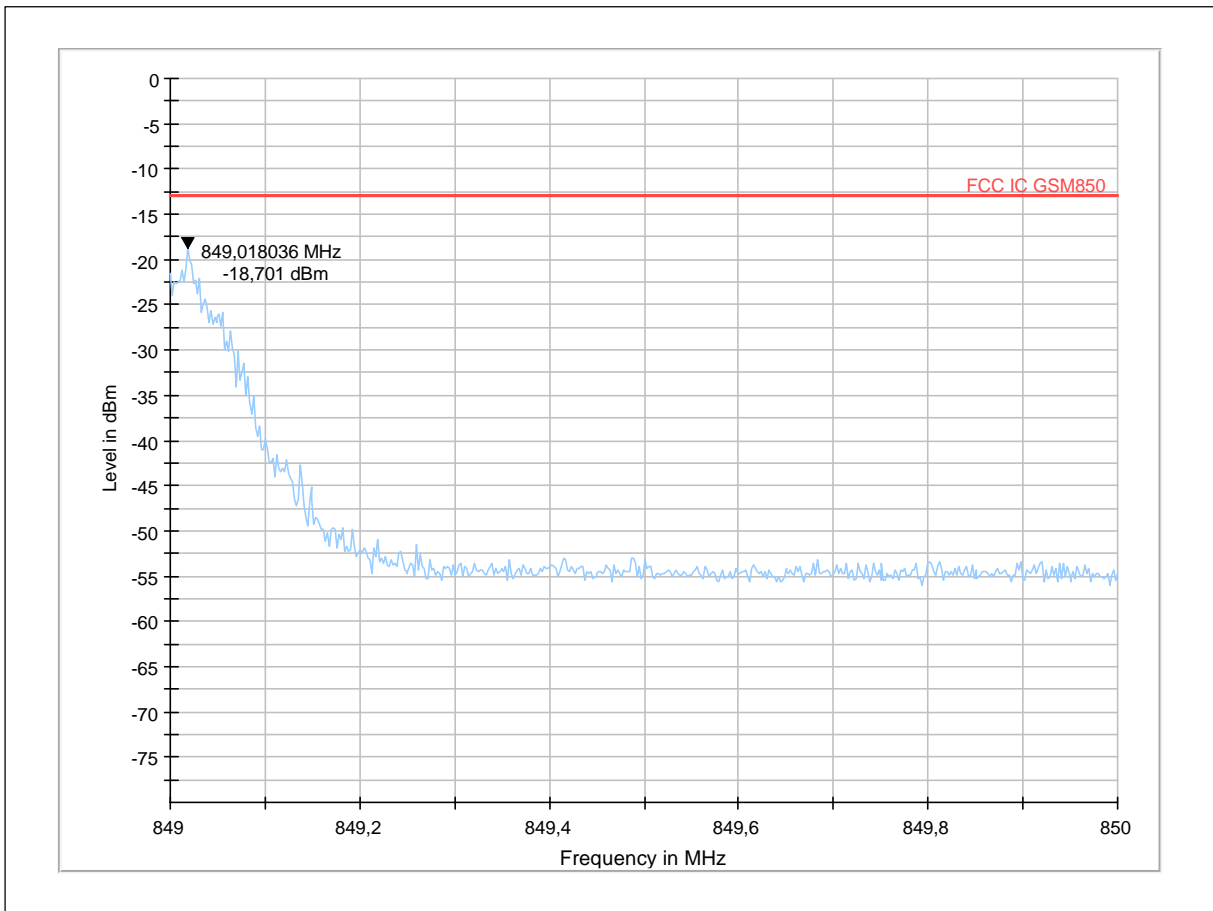
9.1201_Band-Edge_Channel_128_UL_824.2 MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Band Edge Compliance GSM850 |
| Test Site | FAC1 |
| Operation Mode | GSM 850 low Channel_128 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | LKu |
| Verdict | Passed |
| Test Completed | 09.01.2020 09:46:26 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |



9.1202_Band-Edge_Channel_251_UL_848.8 MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Band Edge Compliance GSM850 |
| Test Site Location | CETECOM GmbH Essen |
| Test Site | FAC1 |
| Operation Mode | GSM 850 high Channel_251 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | LKu |
| Verdict | PASSED |
| Test Completed | 09.01.2020 10:10:59 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |

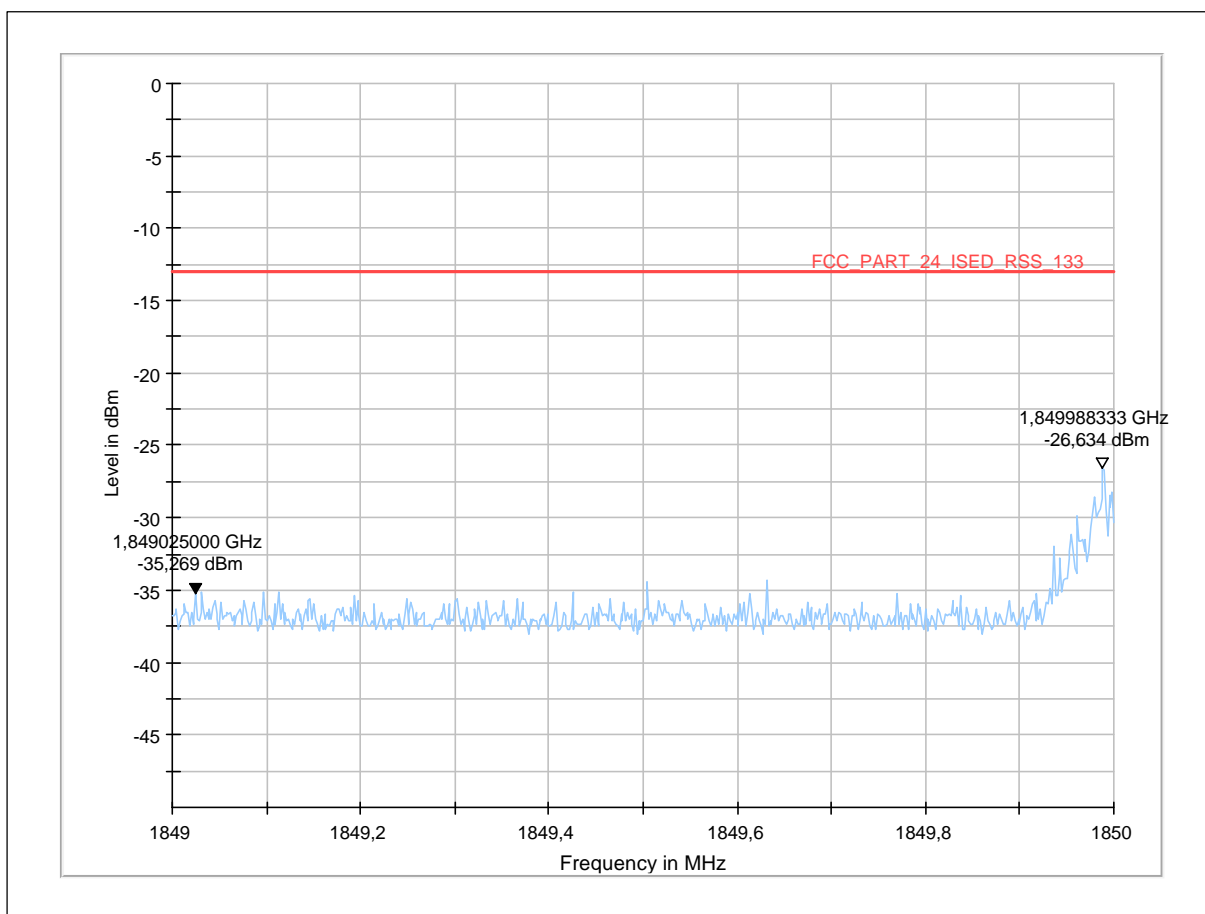


MaxPeak

| Frequency [MHz] | MaxPeak [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Pol | Azimuth [deg] | Elevation [deg] | Results |
|-----------------|---------------|-------------|-------------|-------------|-----|---------------|-----------------|---------|
| 849.006 | -17.75 | -13 | 4.75 | 155 | H | 132 | 0 | PASSED |

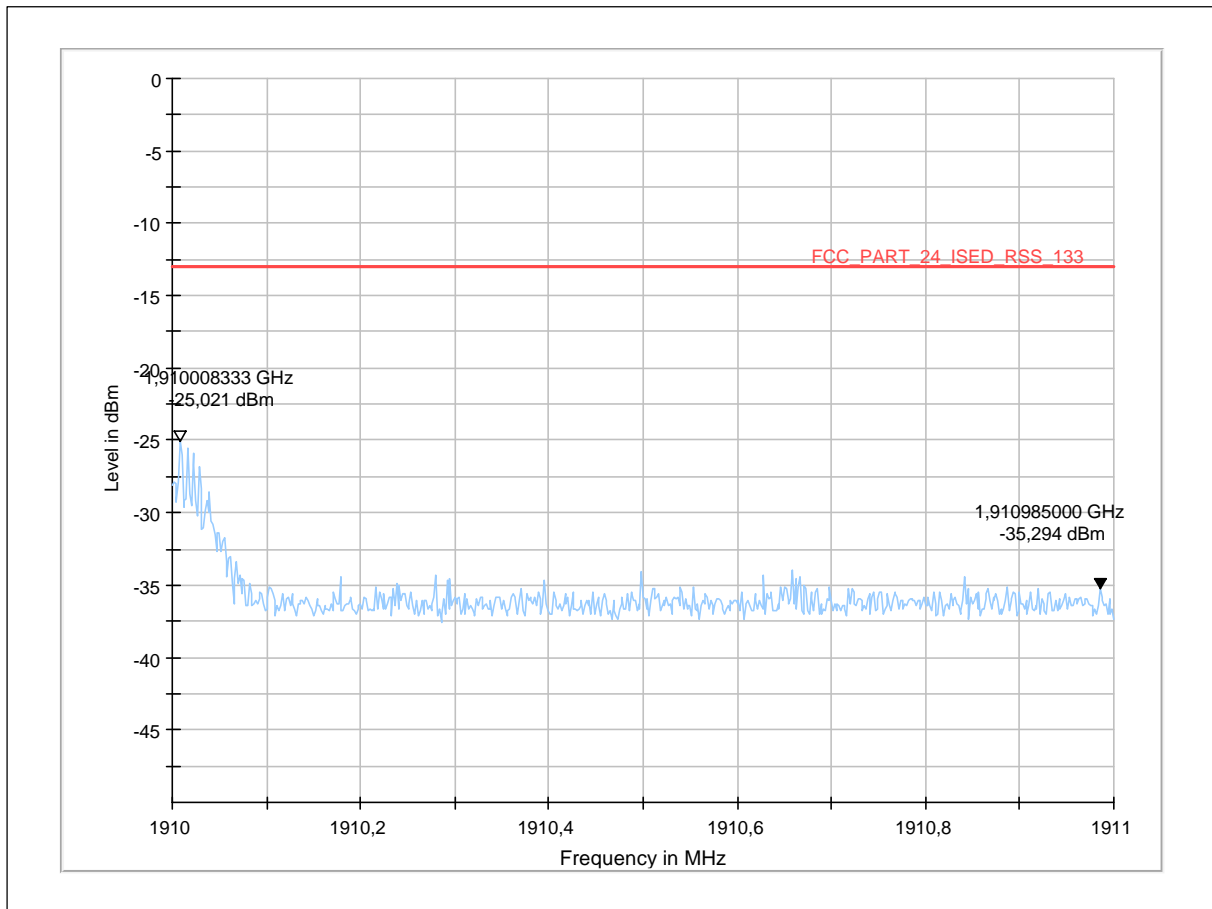
9.1203_Band-Edge_Channel_512_UL_1850.2MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Band Edge Compliance GSM1900 |
| Test Site Location | CETECOM GmbH Essen |
| Test Site | Fully Anechoic Room (FAR1) - 10.50.3 |
| Operation Mode | GSM 1900 low Channel_512 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | HEI |
| Verdict | PASSED |
| Test Completed | 08.01.2020 21:19:09 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |



9.1204_Band-Edge_Channel_810_UL_1909.8MHz

| Common information | |
|--------------------------|---------------------------------------|
| Test Description | Radiated Band Edge Compliance GSM1900 |
| Test Site Location | CETECOM GmbH Essen |
| Test Site | Fully Anechoic Room (FAR1) - 10.50.3 |
| Operation Mode | GSM 1900 high Channel_810 |
| Environmental Conditions | Humidity : 45% rH; Temperature: 18 °C |
| Operator | HEI |
| Verdict | PASSED |
| Test Completed | 08.01.2020 21:05:37 |
| EUT information | |
| PMT sample No | 18-1-01732S32 |



End of Annex 1