

Annex 1: Diagrams of testing to  
**TEST REPORT**  
No.: TR-15-1-0008101-02a

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

for  
peiker acoustic GmbH & Co. KG

GSM/E-GPRS/W-CDMA Wireless Module  
V1140-103-1

FCC-ID: QWY-V1140-103

| Laboratory Accreditation and Listings                                                                                                                                                                                                                                                                                      |                                                                                                                     |                                                                                                                                                                        |                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Deutsche<br>Akkreditierungsstelle<br>D-PL-12047-01-01                                                                                                                                                                               | <br>MRA US-EU 0003               | <br>Industry Canada<br>Reg. No.: 3462D-1<br>Reg. No.: 3462D-2<br>Reg. No.: 3462D-3 | <br>Voluntary Controls for<br>Electromagnetic Emissions<br>Reg. No.:<br>R-2666 C-2914,<br>T-1967, G-301 |
|  <b>AUTHORIZED<br/>RF LABORATORY</b>                                                                                                                                                                                                    | <br><b>LAB CODE 20011130-00</b> |                                                                                                                                                                        |                                                                                                                                                                                              |
| accredited according to DIN EN ISO/IEC 17025                                                                                                                                                                                                                                                                               |                                                                                                                     |                                                                                                                                                                        |                                                                                                                                                                                              |
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## 1. Diagrams of testing

### 1.1. Spurious emissions radiated (GSM850 transmitting mode)

#### Diagram 8.06\_CH251\_GPRS

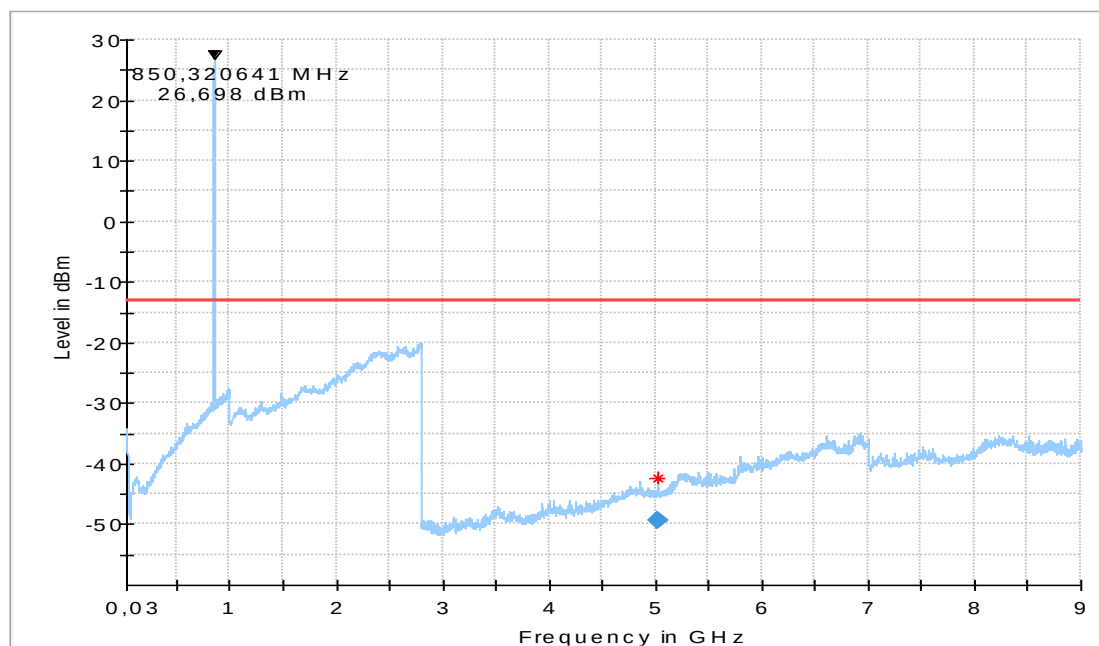
##### Common Information

|                           |                                    |
|---------------------------|------------------------------------|
| Test Description:         | Radiated Emissions GSM850          |
| Test Site Location:       | CETECOM GmbH Essen                 |
| Test Site:                | Fully Anechoic Room (FAR)          |
| Test Standard:            | FCC Part22.917                     |
| Test Case:                |                                    |
| Operating Mode:           | MS allocated UL channel 251        |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C |
| Operator:                 | KMo/APh                            |

##### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| -----                 |                                                                  |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



##### Final Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 5021.152304     | -49.48        | -           | 36.48       | 5000.0          | 1000.000        | V   | 67.0          | 90.0            | -91.1      |

## 1.2. Spurious emissions radiated (GSM1900 transmitting mode)

### Diagram 8.14\_CH661\_GPRS

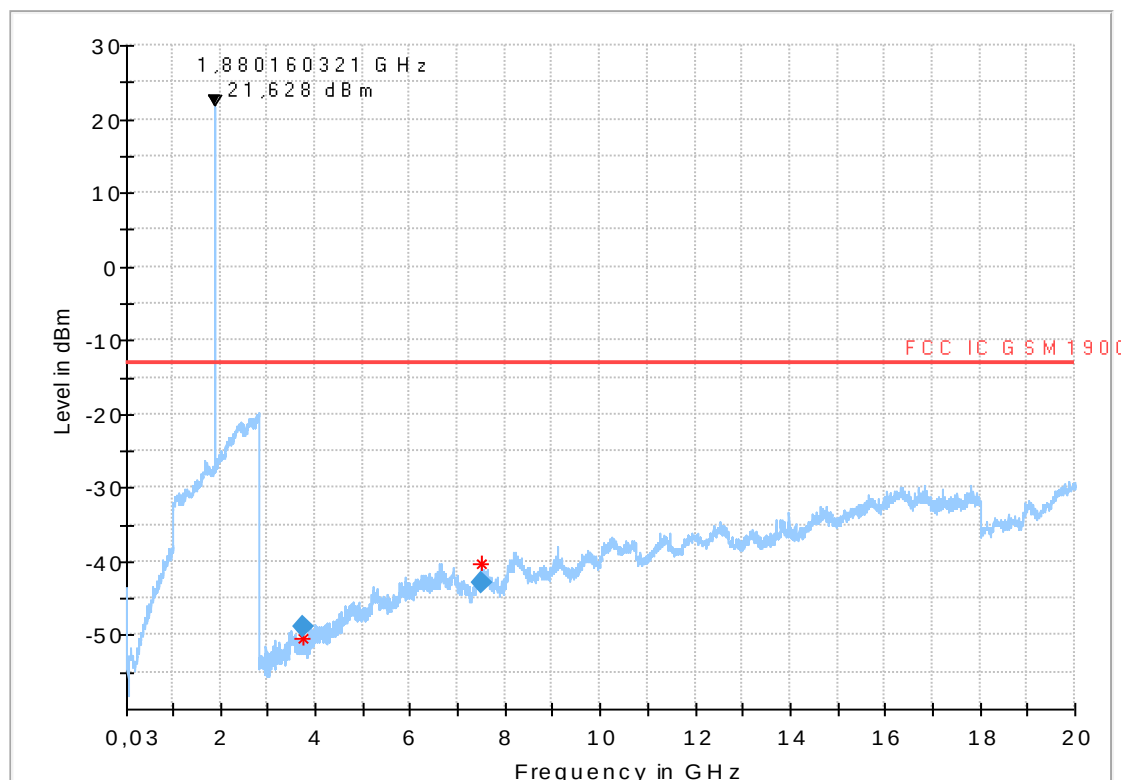
#### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions GSM1900       |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0 |
| Test Standard:            | FCC Part 24.238                           |
| Comm. Link:               | GSM1900, Voice/EDGE                       |
| Operating Mode:           | MS allocated channel ,661(UL = 1880.0MHz) |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C        |
| Operator:                 | KMo                                       |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

#### Full Spectrum



#### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 3760.135271     | -           | 35.92       | 1000.0          | 1000.000        | V   | 104.0         | 0.0             | -95.1      |
| 7522.119238     | -           | 29.84       | 1000.0          | 1000.000        | V   | 168.0         | 90.0            | -83.4      |

### 1.3. Spurious emissions radiated (FDD Band II transmitting mode)

#### Diagram 8.02 RSE\_R\_CH9538\_FDD\_II

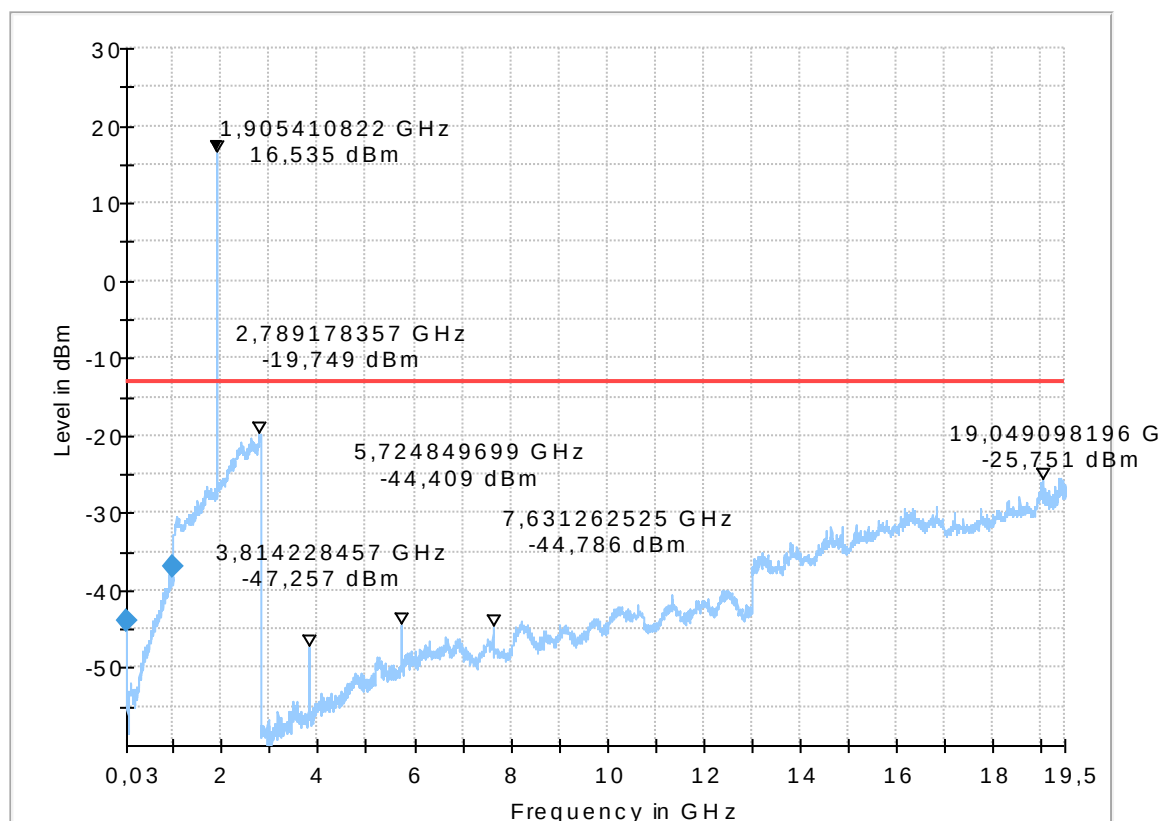
##### Common Information

|                           |                                             |
|---------------------------|---------------------------------------------|
| 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) |
| Environmental Conditions: | Humidity: 43%rH; Temperature: 21°C          |
| Operator:                 | APH                                         |

##### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



## 1.4. Spurious emissions radiated (FDD Band V transmitting mode)

### Diagram 8.50 RSE\_R\_CH4132\_RMC

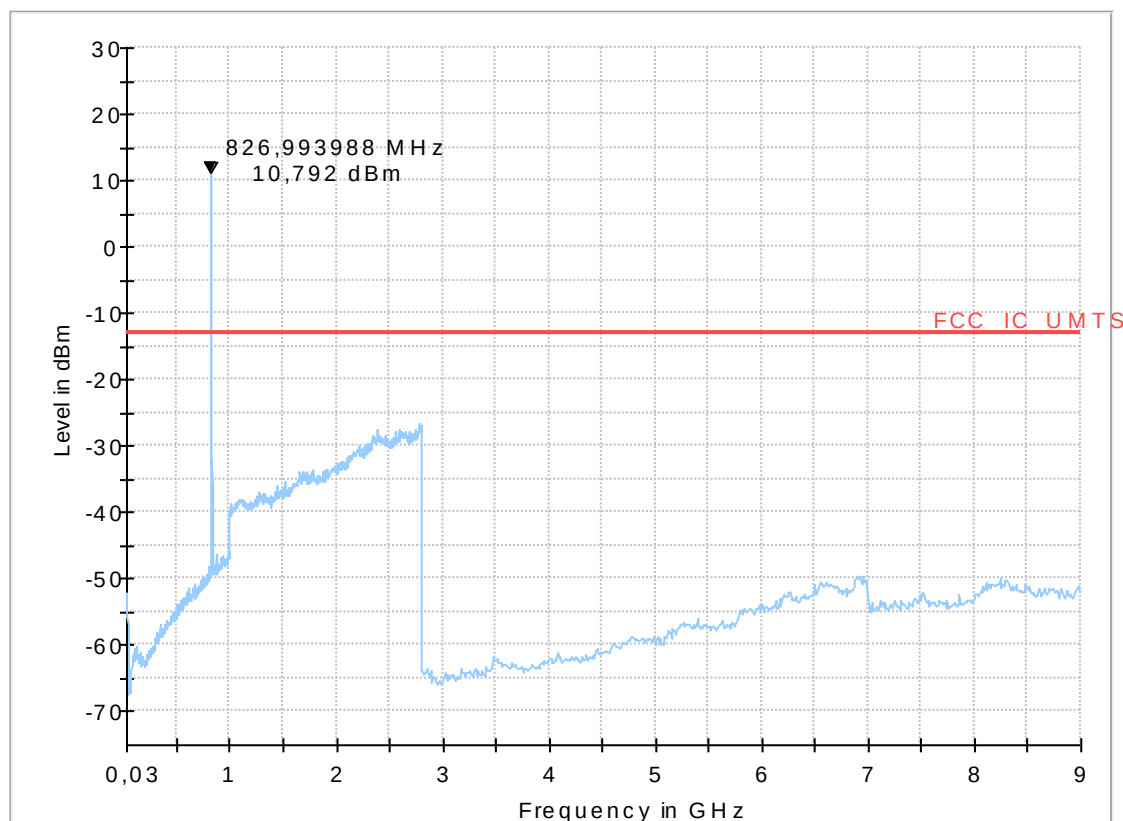
#### Common Information

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Test Description:         | Radiated Spurious Emissions UMTS FDDV            |
| Test Site Location:       | CETECOM GmbH Essen                               |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0        |
| Test Standard:            | FCC Part 22.917(a)                               |
| Operating Mode:           | UE allocated channel 4132 ( $f_c = 826.6$ ) ,RMC |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C               |
| Operator:                 | Kmo                                              |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



## 1.5. Radiated emissions on GSM850 band-edge

### Diagram 9.03 RSE\_R\_CH128\_GPRS

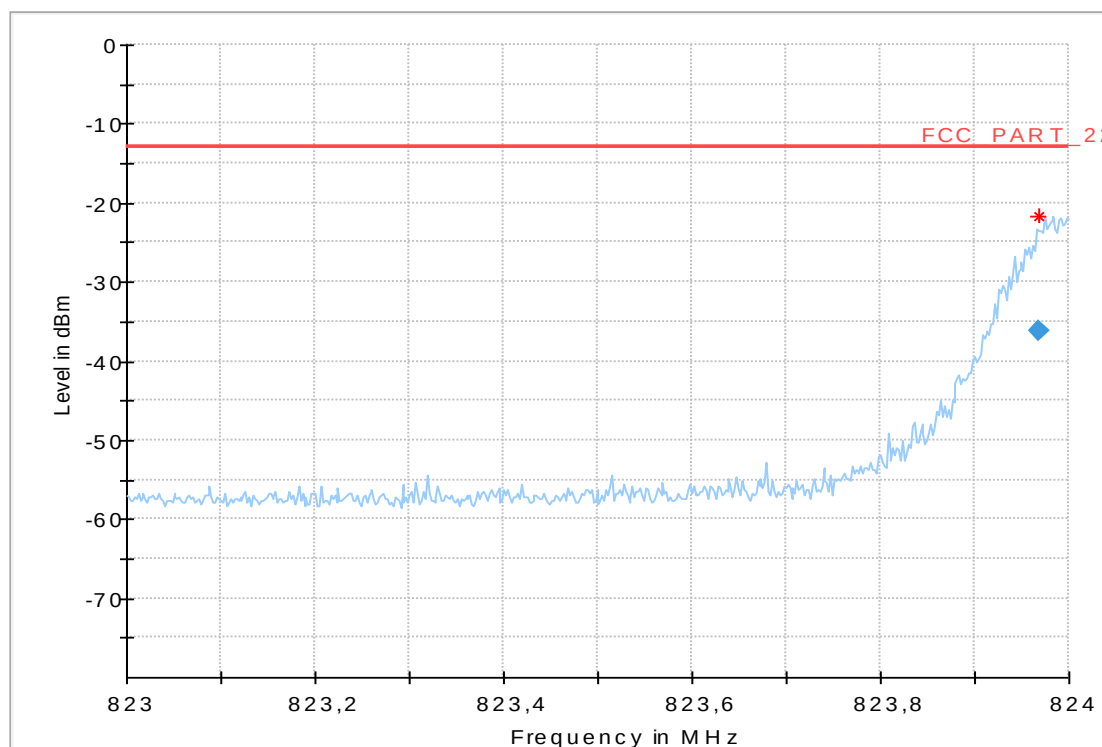
#### Common Information

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Test Description:         | Radiated Band Edge Compliance GSM850                           |
| Test Site Location:       | CETECOM GmbH Essen                                             |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0                      |
| Test Standard:            | FCC Part 22.917                                                |
| Operating Mode:           | MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm) |
| Exclusionband:            | 824 - 849MHz                                                   |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C                             |
| Operator:                 | Kmo                                                            |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| -----                 |                                                                  |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



#### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----|---------------|-----------------|------------|
| 823.967936      | -13.00      | 23.29       | 10000.0         | H   | 309.0         | 90.0            | -75.8      |

## Diagram 9.04 RSE\_R\_CH251\_GPRS

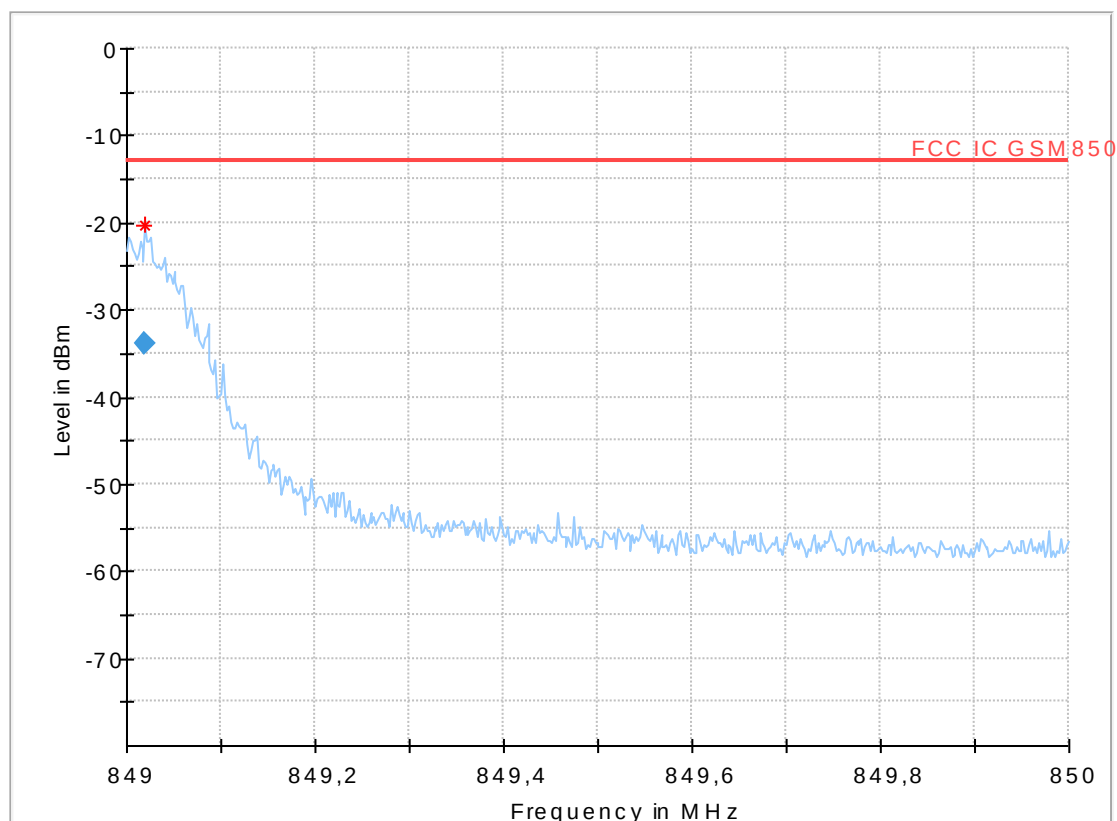
### Common Information

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Test Description:         | Radiated Band Edge Compliance GSM850                           |
| Test Site Location:       | CETECOM GmbH Essen                                             |
| Test Site:                | Fully Anechoic Room (FAR)                                      |
| Test Standard:            | FCC Part 22.917                                                |
| Operating Mode:           | MS allocated channel 251 (fc = 848.8MHz), Voice, PCL0 (+33dBm) |
| Exclusionband:            | 824 - 849MHz                                                   |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C                             |
| Operator:                 | Kmo                                                            |

### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| -----                 |                                                                  |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



### Final Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----|---------------|-----------------|------------|
| 849.020040      | -33.91    | 13.00       | 20.91       | 10000.0         | H   | 304.0         | 90.0            | -76.0      |



## 1.6. Radiated emissions on GSM1900 band-edge

### Diagram 9.07\_CH512\_GPRS

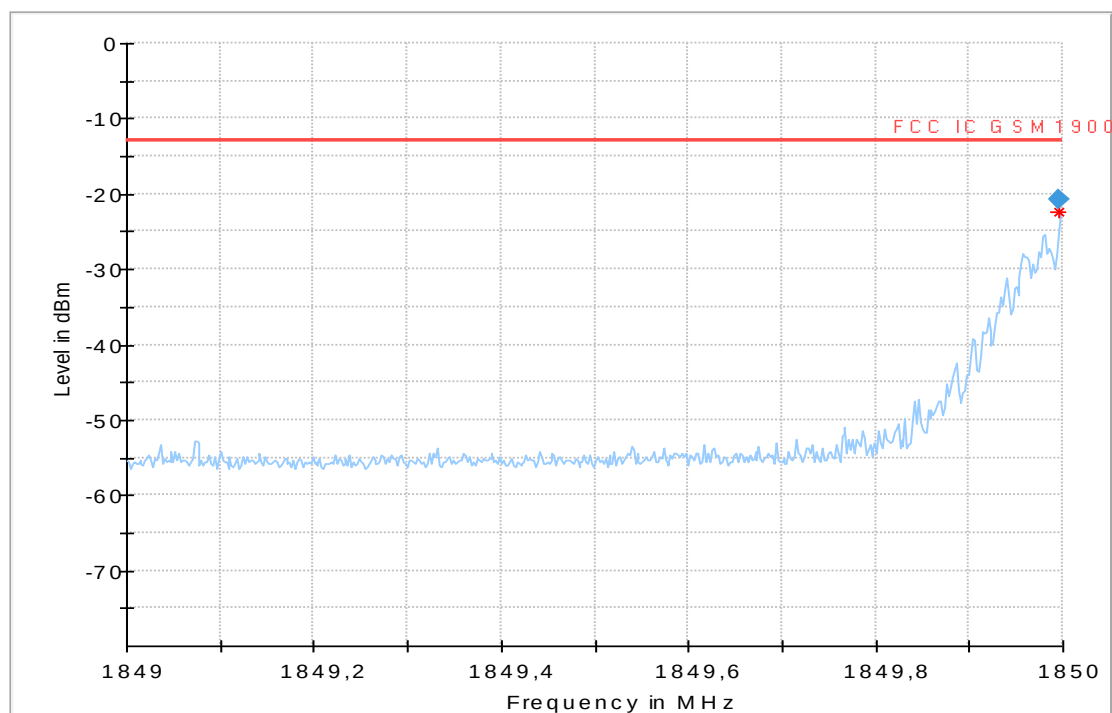
#### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions GSM1900       |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0 |
| Test Standard:            | FCC Part 24.238                           |
| Comm. Link:               | GSM1900, Voice/EDGE                       |
| Operating Mode:           | MS allocated channel 512 (UL = 1850.2MHz) |
| Exclusionband:            | 1850- 1910MHz                             |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C        |
| Operator:                 | KMo                                       |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



#### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1849.995992     | -13.00      | 7.69        | 10000.0         | 3.000           | H   | 65.0          | 90.0            | -63.1      |

## Diagram 9.08\_CH810\_GPRS

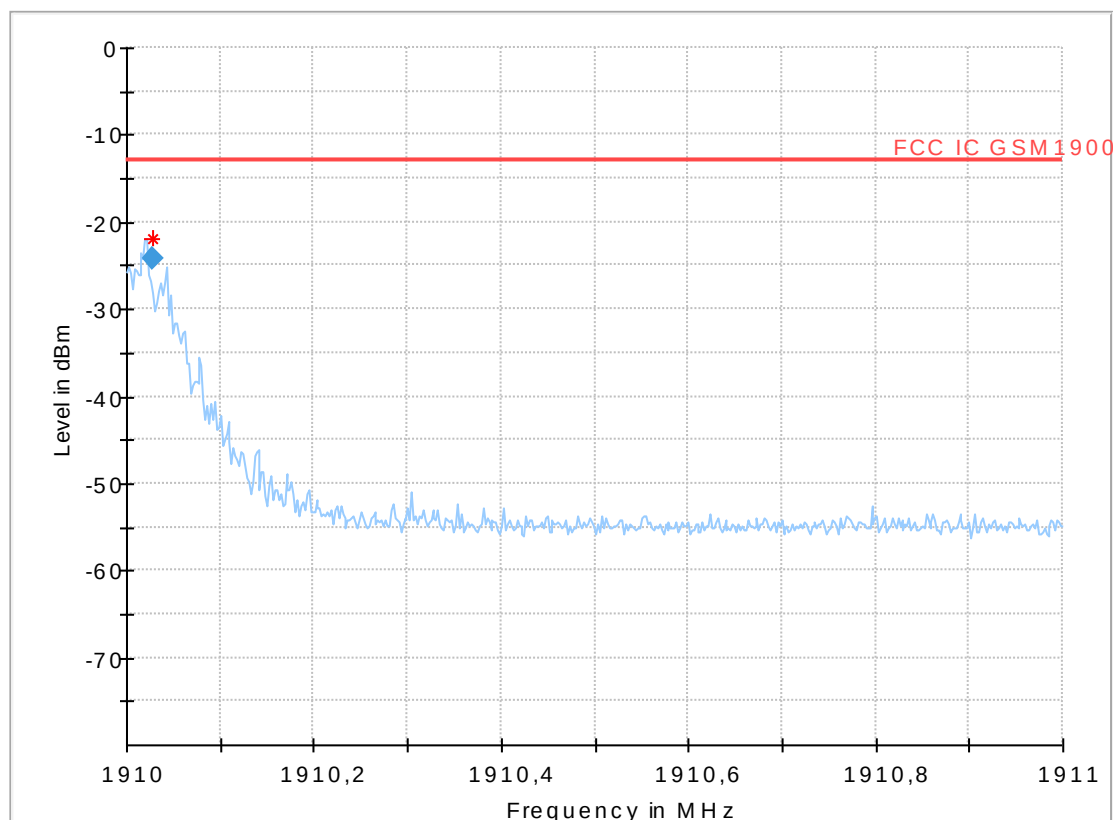
### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions GSM1900       |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0 |
| Test Standard:            | FCC Part 24.238                           |
| Comm. Link:               | GSM1900, Voice/EDGE                       |
| Operating Mode:           | MS allocated channel 810 (UL = 1909.8MHz) |
| Exclusionband:            | 1850- 1910MHz                             |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C        |
| Operator:                 | KMo                                       |

### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tdb (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1910.028056     | -13.00      | 11.18       | 10000.0         | 3.000           | V   | 8.0           | 90.0            | -62.8      |

## 1.7. Radiated emissions on FDD Band II band-edge

### Diagram 9.01\_CH9262\_FDD\_II

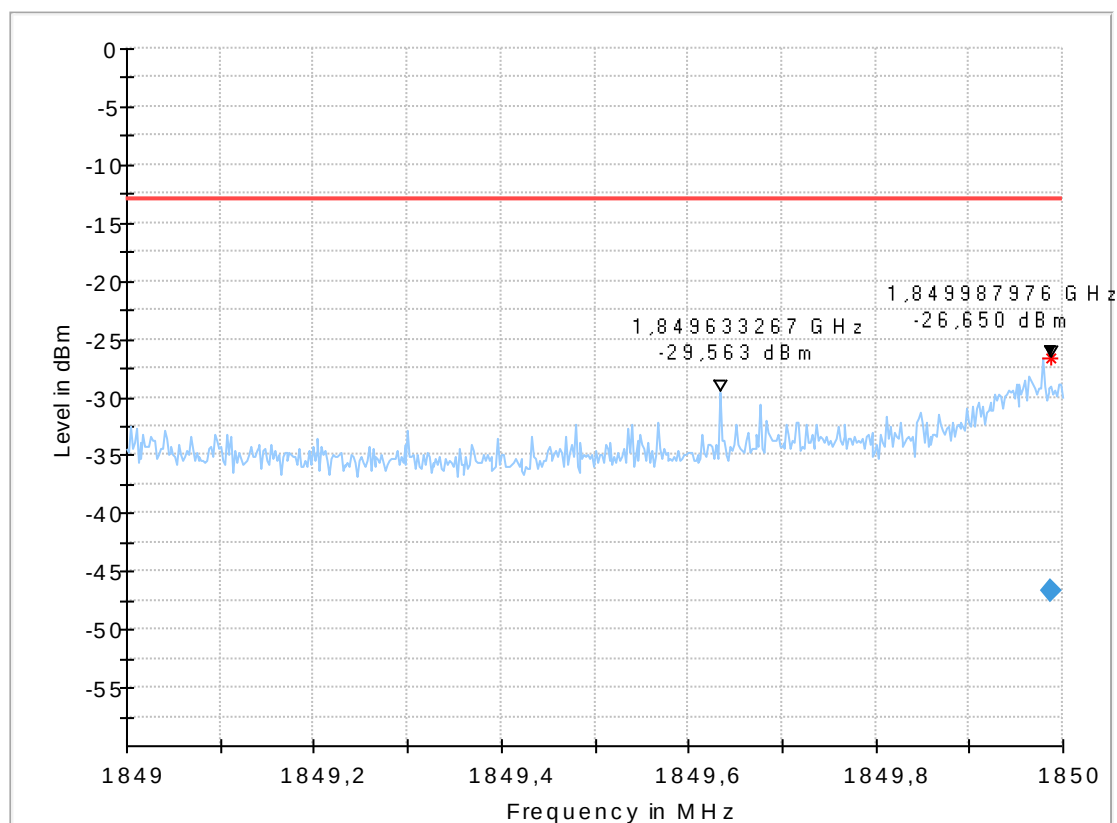
#### Common Information

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Test Description:         | Band-Edge High - Radiated Spurious Emissions UMTS FDDII |
| Test Site Location:       | CETECOM GmbH Essen                                      |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.121.0              |
| Test Standard:            | FCC Part 24                                             |
| Operating Mode:           | UE allocated channel 9262 (fc = 1852.4 MHz)             |
| Exclusionband:            | 1850 - 1910 MHz                                         |
| Environmental Conditions: | Humidity: 42%rH; Temperature: 23°C                      |
| Operator:                 | APh                                                     |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tdb (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



#### Final Result

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1849.987976     | -46.64        | -13.00      | 33.64       | 10000.0         | 5.000           | V   | 2.0           | 90.0            | -63.1      |

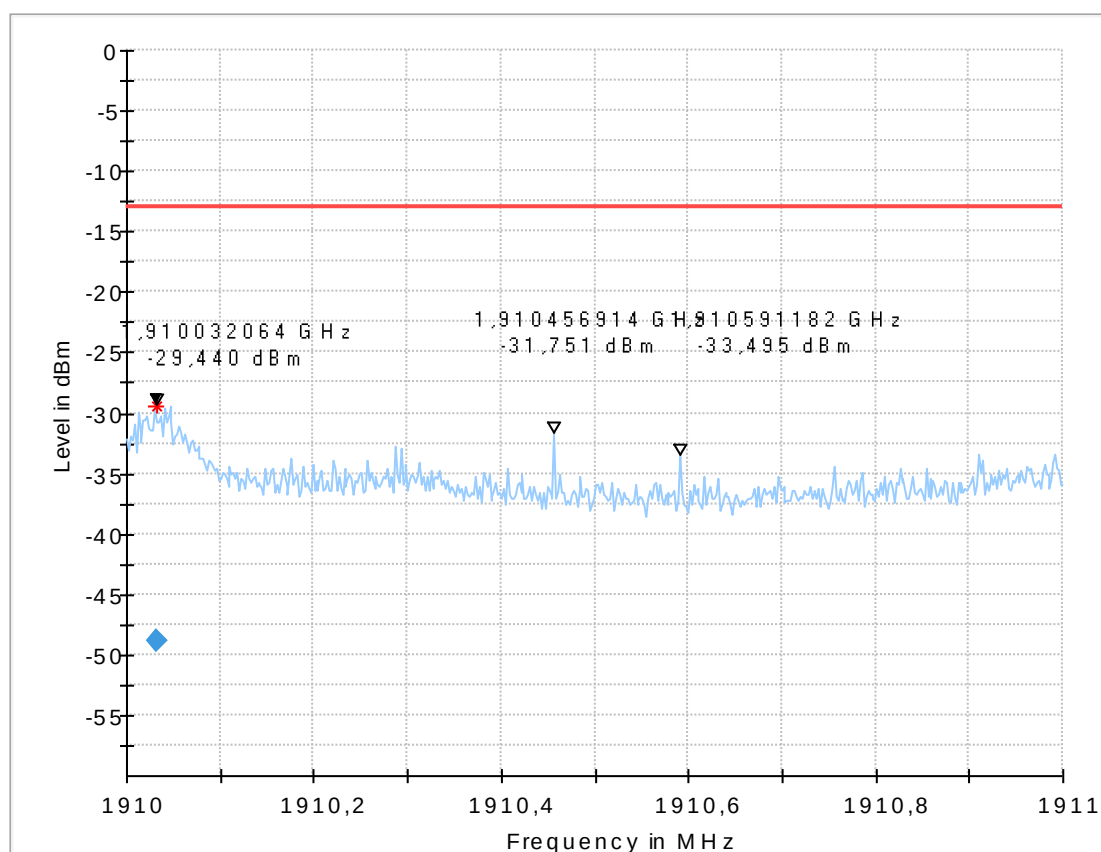
## Diagram 9.02 RSE\_R\_CH9538\_FDD\_II

### Common Information

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Test Description:         | Band-Edge High - Radiated Spurious Emissions UMTS FDDII |
| Test Site Location:       | CETECOM GmbH Essen                                      |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.121.0              |
| Test Standard:            | FCC Part 24                                             |
| Operating Mode:           | UE allocated channel 9538 (fc = 1907.6 MHz)             |
| Environmental Conditions: | Humidity: 43%rH; Temperature: 23°C                      |
| Operator:                 | APh                                                     |

### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |



### Final Result

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1910.032064     | -48.87        | -13.00      | 35.87       | 10000.0         | 5.000           | V   | 6.0           | 90.0            | -62.8      |

## 1.8. Radiated emissions on FDD Band V band-edge

### Diagram 9.50\_CH4132\_RMC

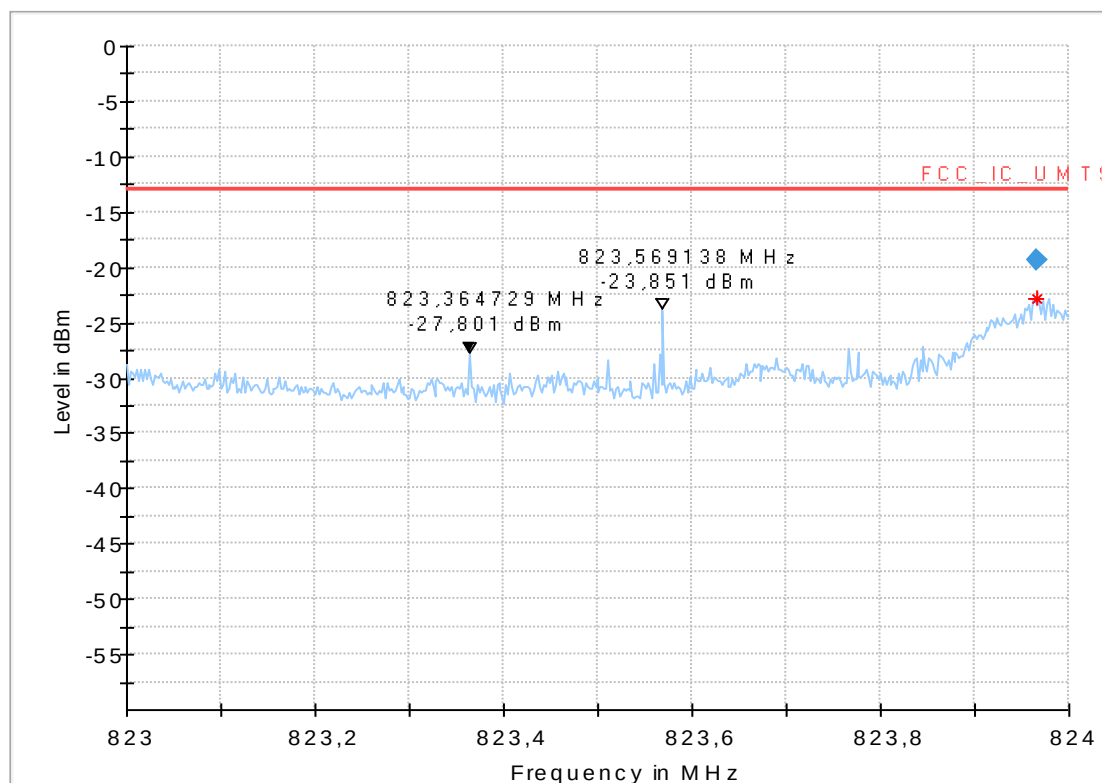
#### Common Information

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Test Description:         | Band-Edge low - Radiated Spurious Emissions UMTS FDDV |
| Test Site Location:       | CETECOM GmbH Essen                                    |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0             |
| Test Standard:            | FCC Part 22.917(a)                                    |
| Operating Mode:           | UE allocated channel 4132                             |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C                    |
| Operator:                 | Kmo                                                   |

#### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbd (please refer to test report)                                |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |

Full Spectrum



#### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 823.965751      | -           | 6.41        | 500.0           | 100.000         | V   | 296.0         | 0.0             | -75.8      |

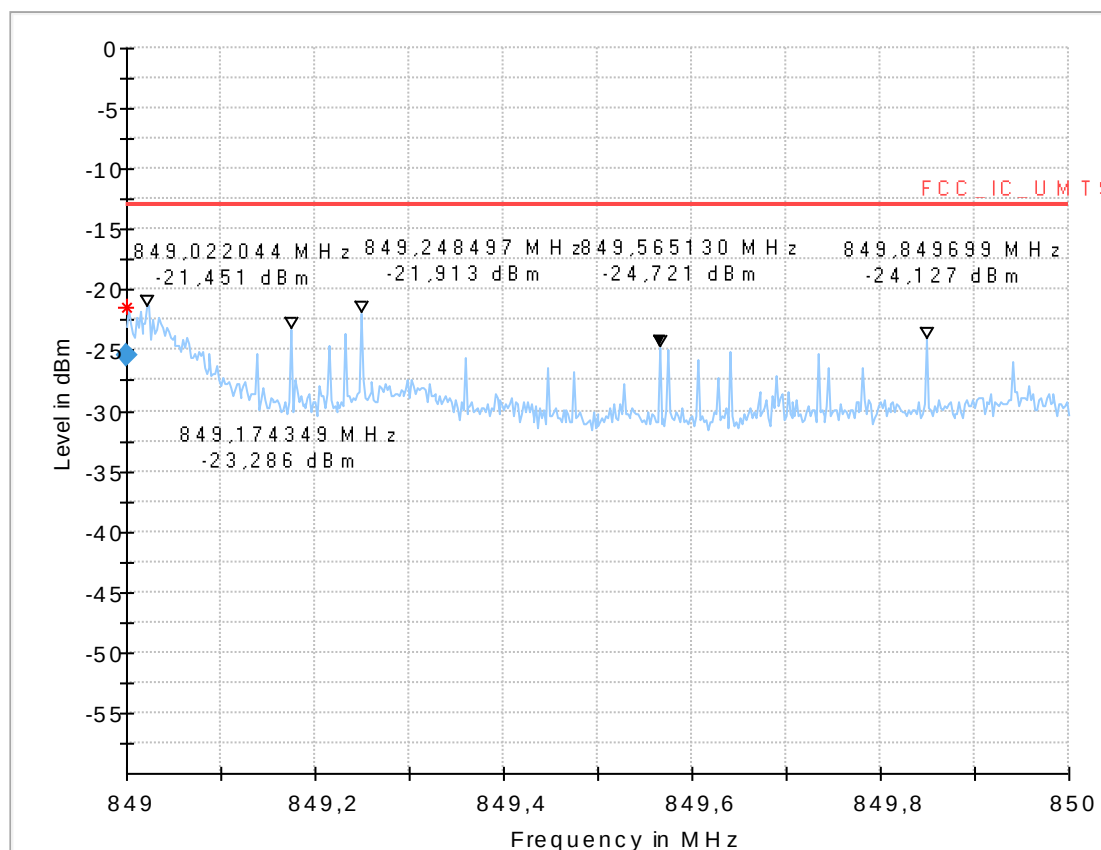
## Diagram 9.51\_CH4233\_RMC

### Common Information

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Test Description:         | Band-Edge High - Radiated Spurious Emissions UMTS FDDV |
| Test Site Location:       | CETECOM GmbH Essen                                     |
| Test Site:                | Fully Anechoic Room (FAR) - EMC32 V9.21.0              |
| Test Standard:            | FCC Part 22.917(a)                                     |
| Operating Mode:           | UE allocated channel 4233 (fc = 826.6)                 |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 23°C                     |
| Operator:                 | Kmo                                                    |

### EUT Information

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Manufacturer:         | peiker acoustic GmbH & Co. KG                                    |
| EuT:                  | PKD0054AB1(a)                                                    |
| Model:                | V1140-103-1                                                      |
| HW Version:           | tbid (please refer to test report)                               |
| SW Version:           | M9615A-CETWTDZM-6.3.1.100087                                     |
| Serial Number:        | 353816-07-000000-7                                               |
| Connected Interfaces: | shark antenna with ground plane, microphone, loudspeaker, cables |
| Power Supply:         | 12 VDC                                                           |
| Comments:             |                                                                  |



### Final Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-----|---------------|-----------------|------------|
| 849.001046      | -           | 12.45       | 500.0           | H   | 52.0          | 90.0            | -75.9      |