







Annex 1: Measurement diagrams  
to  
**TEST REPORT**  
No.: 2-0023-11-1-6b

According to:  
**FCC-Regulations**  
Part 22 & Part 24 & Part 27  
**IC-Regulations**  
RSS-132 Issue 2 & RSS-133 Issue 5 & RSS-139 Issue 2  
RSS-Gen, Issue 3

for  
Research In Motion Limited  
**Smartphone REA71UW**  
*FCC-ID: L6AREA70UW*  
*IC: 2503A-REA70UW*

**Smartphone REB71UW**  
*FCC-ID: L6AREB70UW*  
*IC: 2503A-REB70UW*

Laboratory Accreditation and Listings			
 <b>DAkkS</b> Deutsche Akkreditierungsstelle D-PL-12047-01-01	 <b>FCC</b> FEDERAL COMMUNICATIONS COMMISSION USA Reg. No.: 736496 MRA US-EU 0003	 <b>Industry Canada</b> Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 <b>Voluntary Controls for Electromagnetic Emissions</b> Reg. No.: R-2665, R-2666 C-2914, T-1967, G-301
 <b>WiFi</b> ALLIANCE AUTHORIZED RF LABORATORY	 <b>CTIA Authorized Test Lab</b> LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
<b>CETECOM GmbH</b> 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			

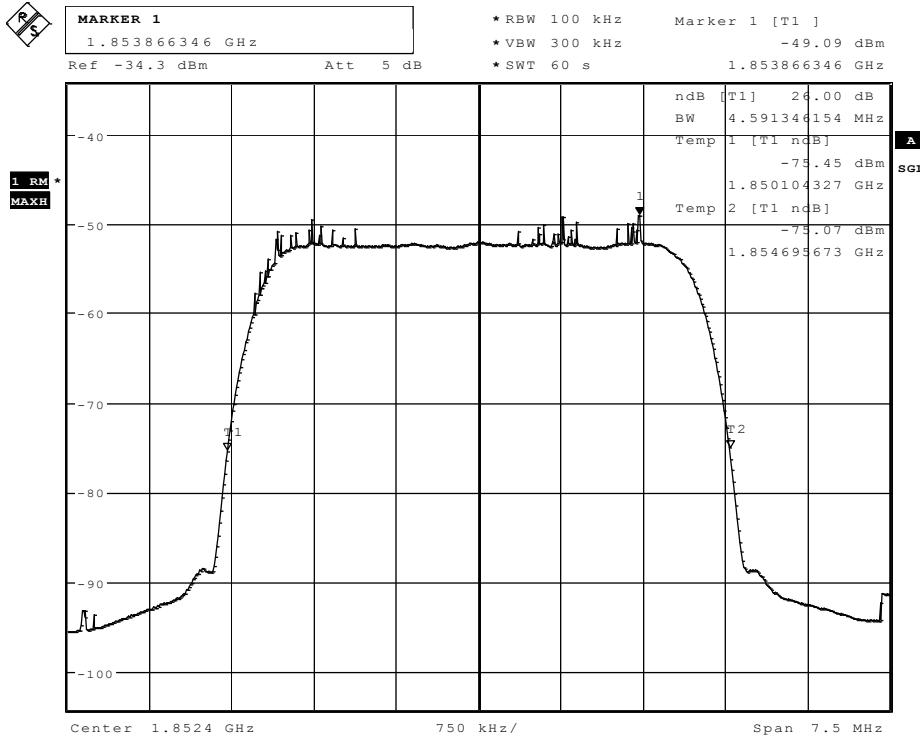
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# 1. Measurement results

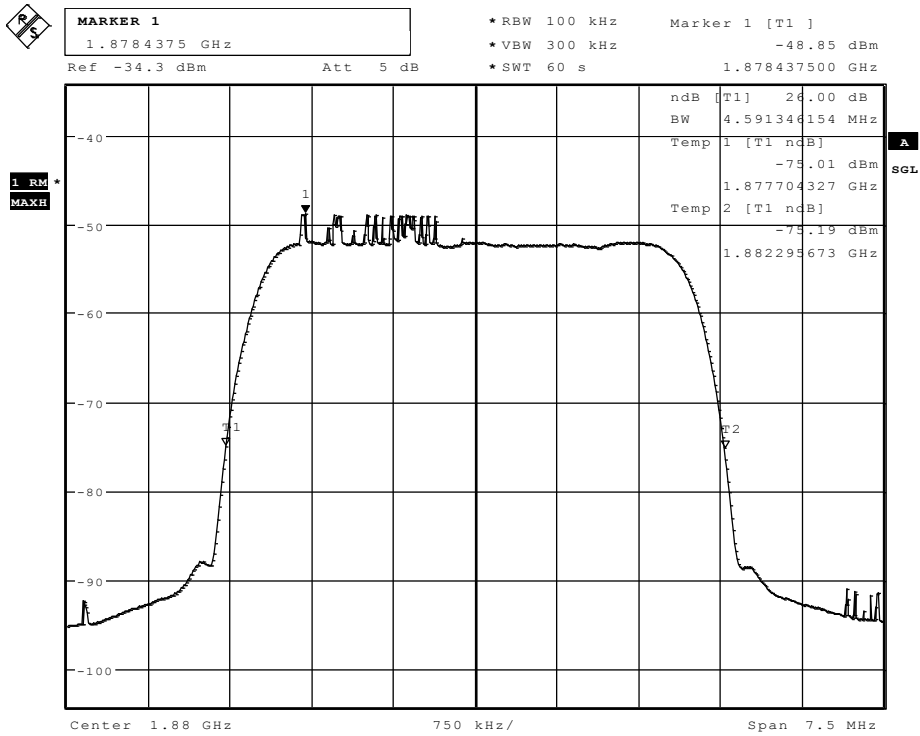
## 1.1. 26dBc Emission bandwidth

### 1.1.1. FDD Band II – Voice Mode



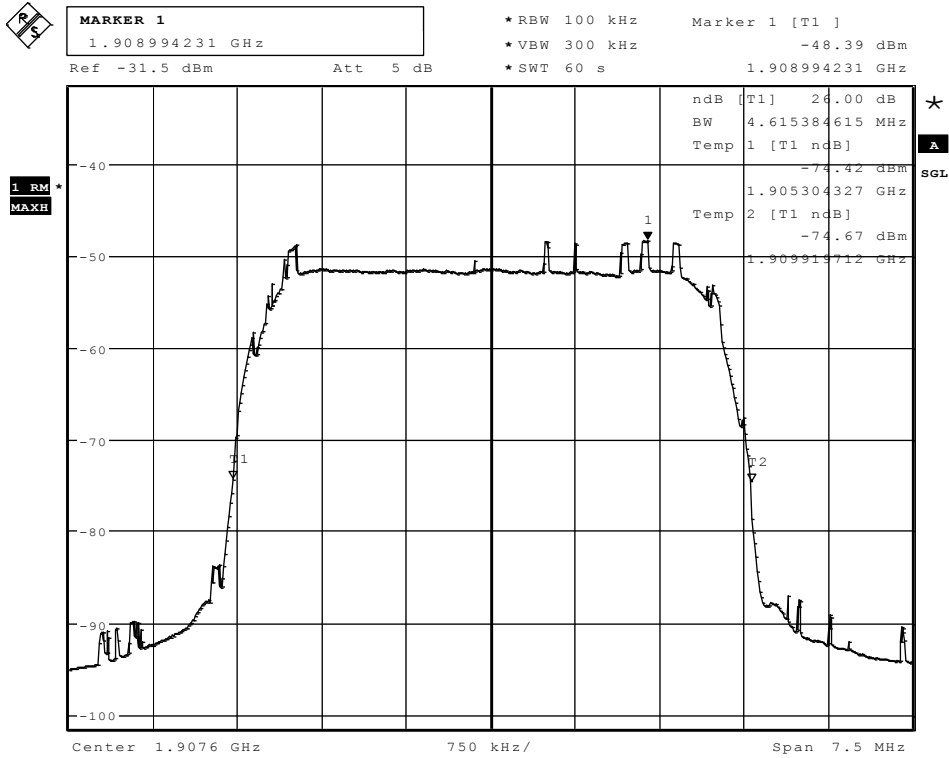
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Channel 9262



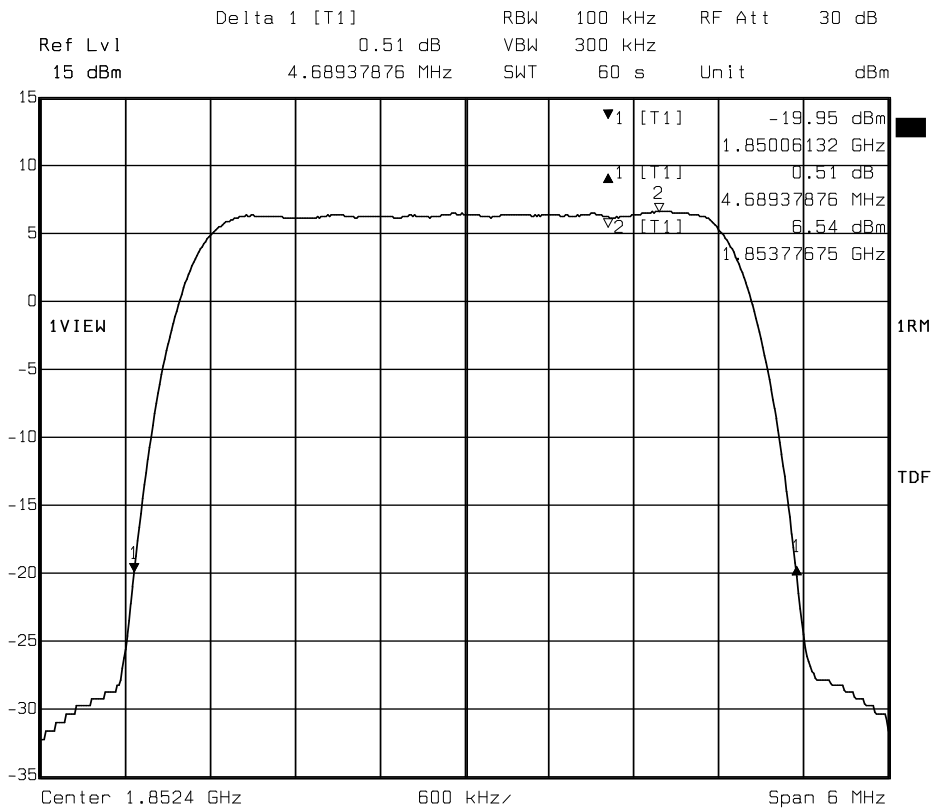
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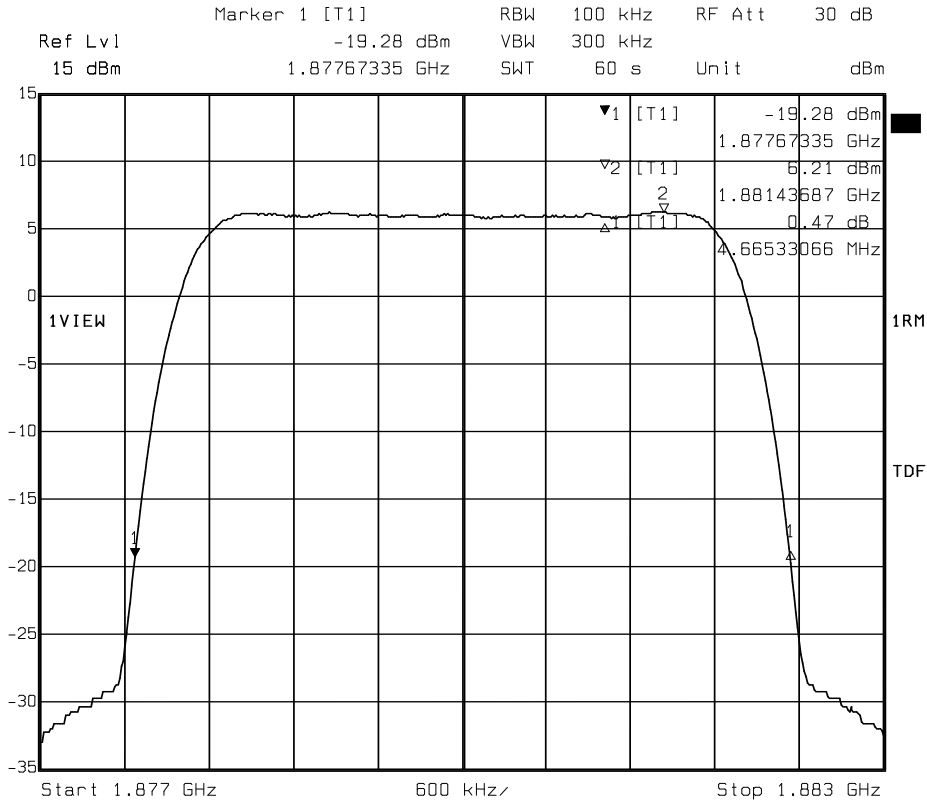


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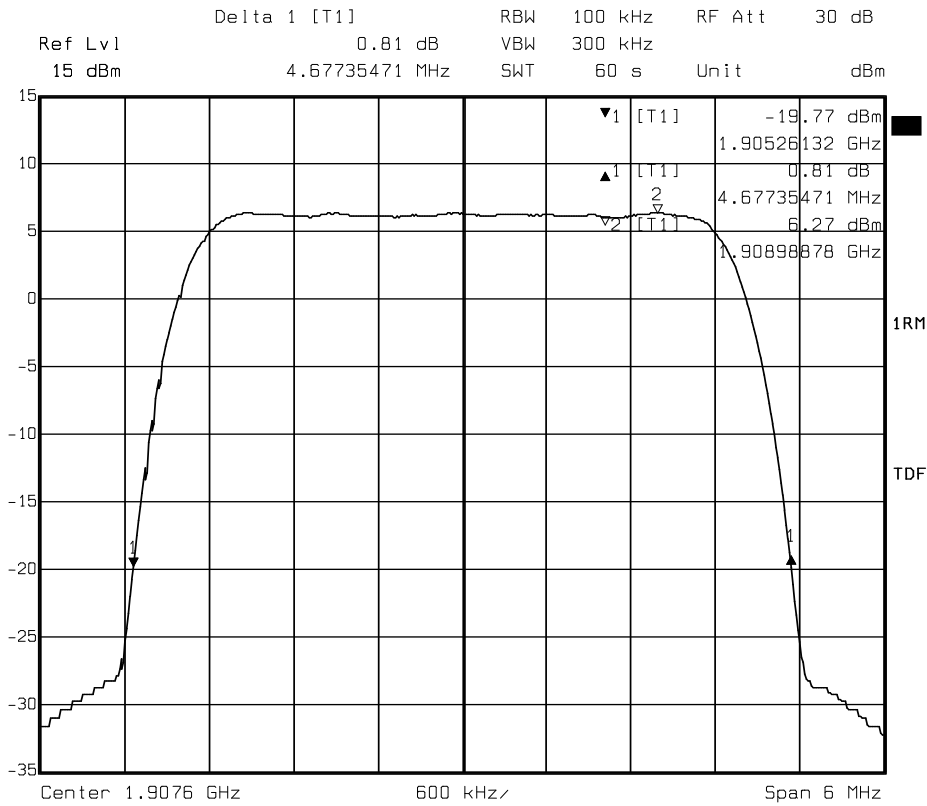
**1.1.2. FDD Band II – HSUPA Mode**



Date: 26.SEP.2011 08:17:26  
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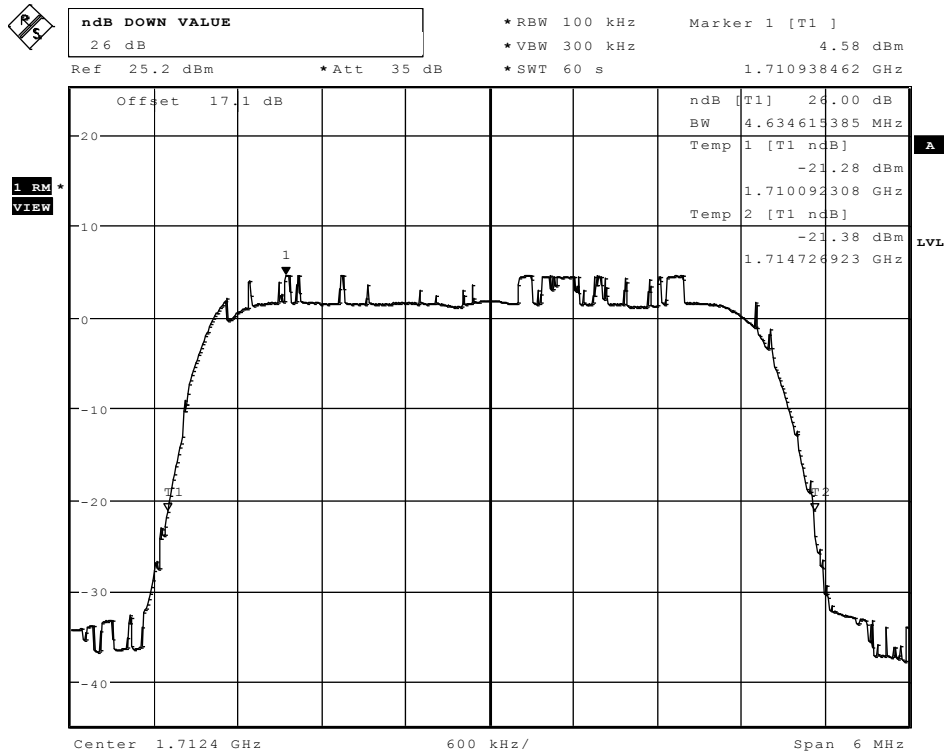


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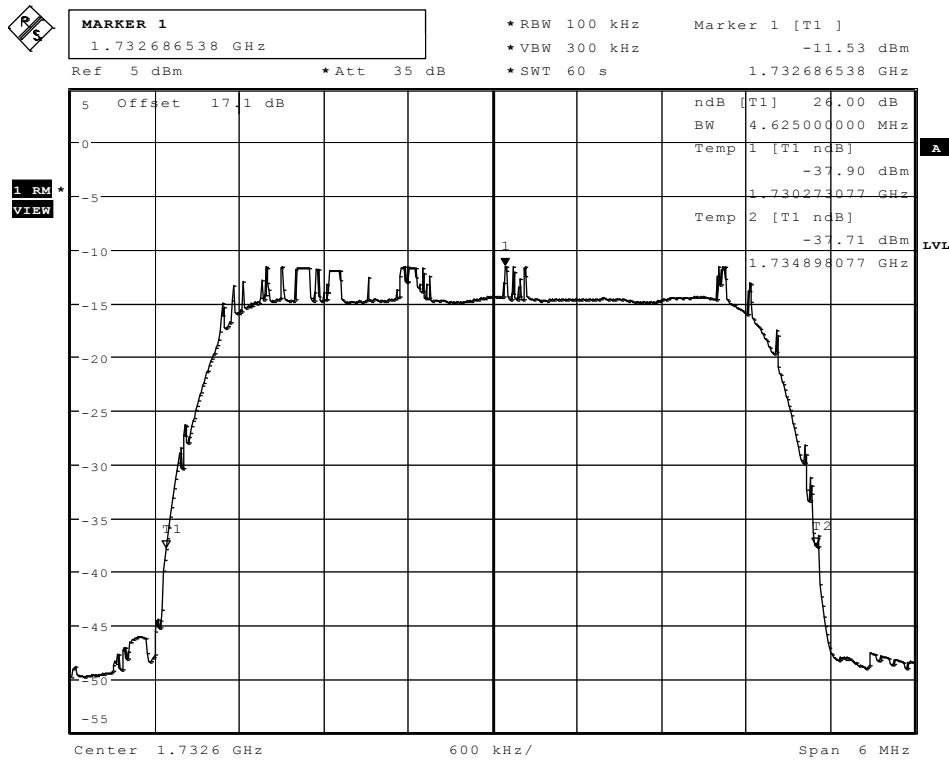
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### 1.1.3. FDD Band IV – Voice Mode



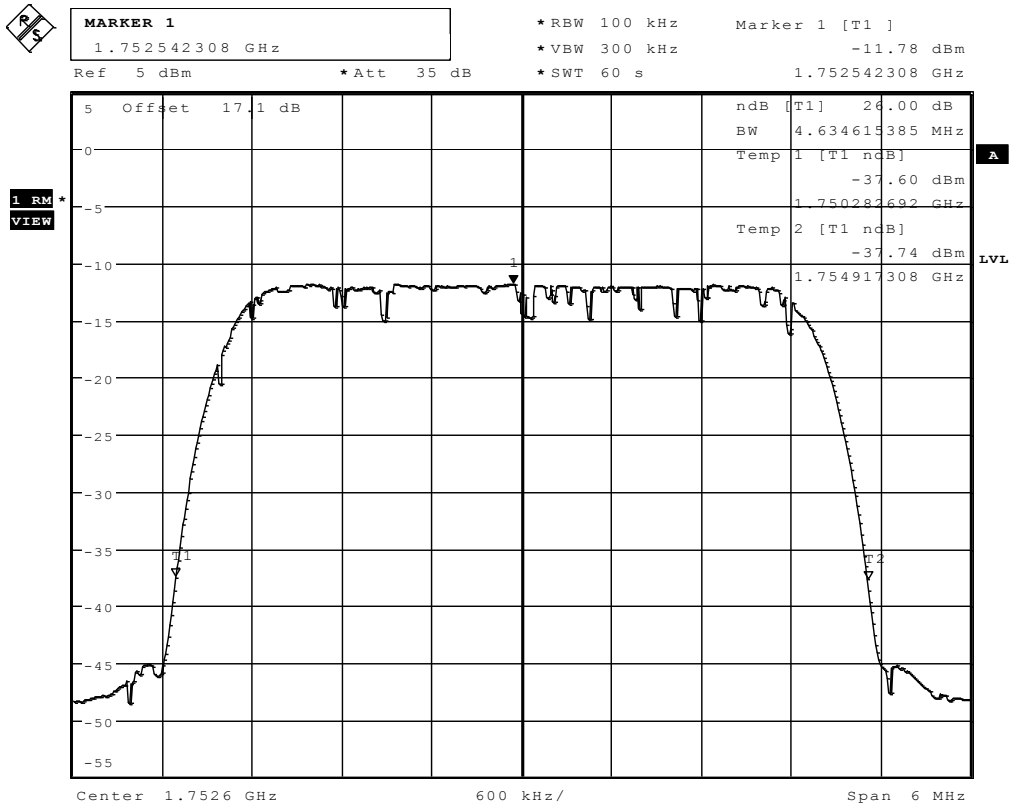
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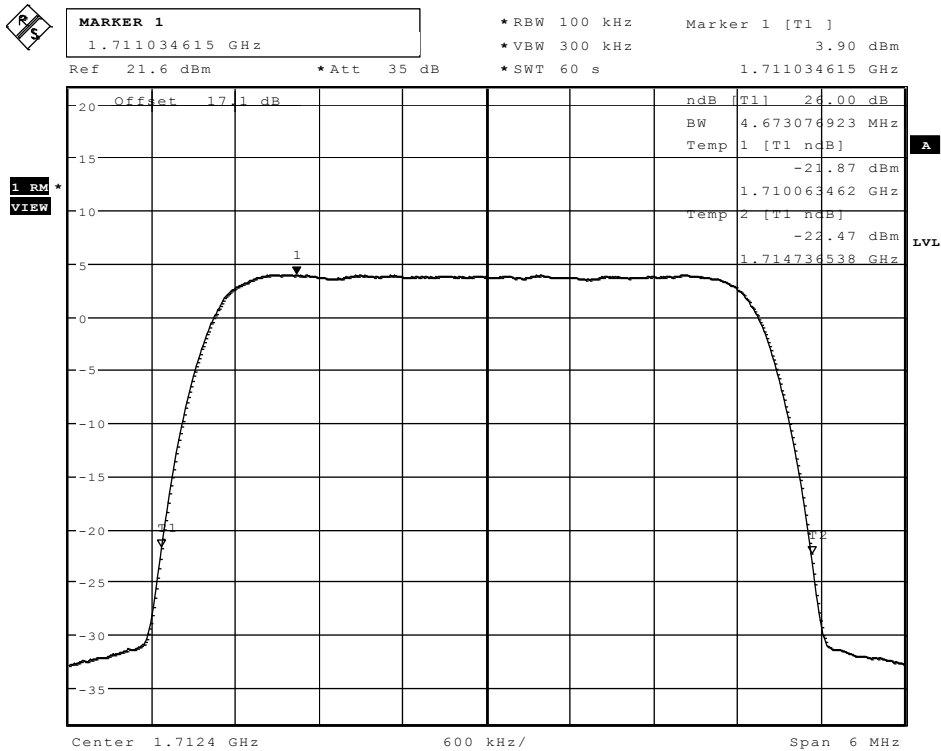
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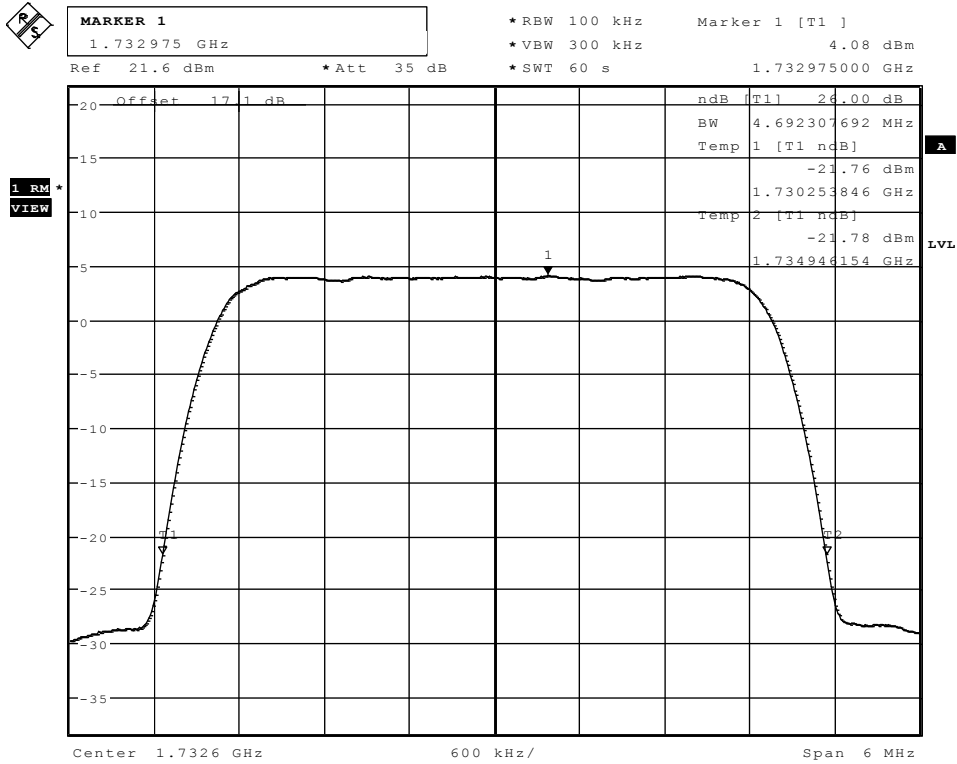


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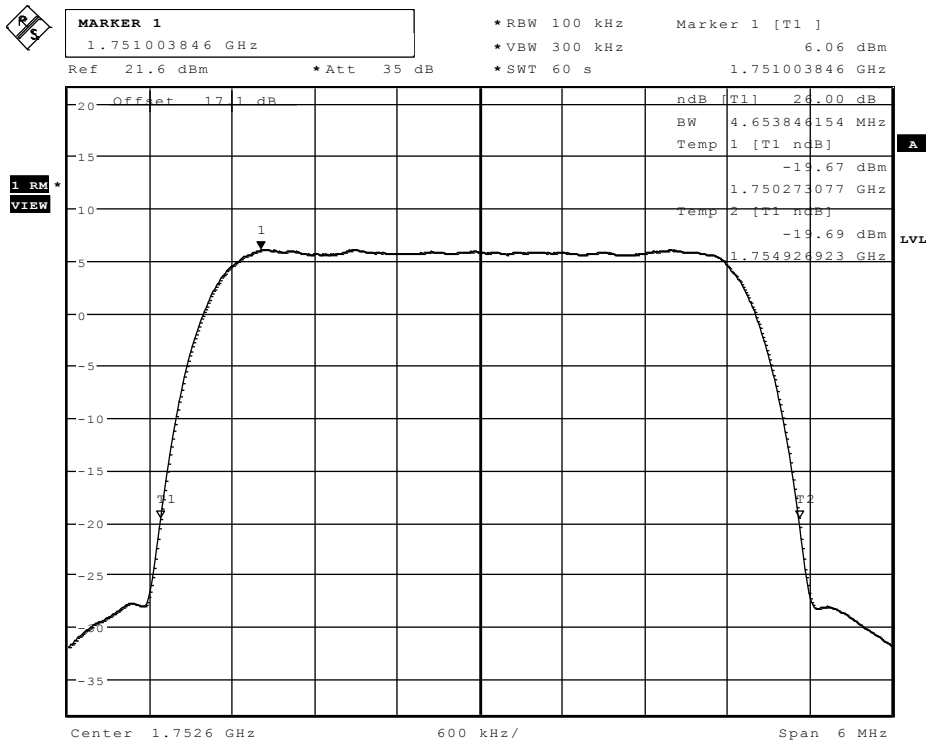
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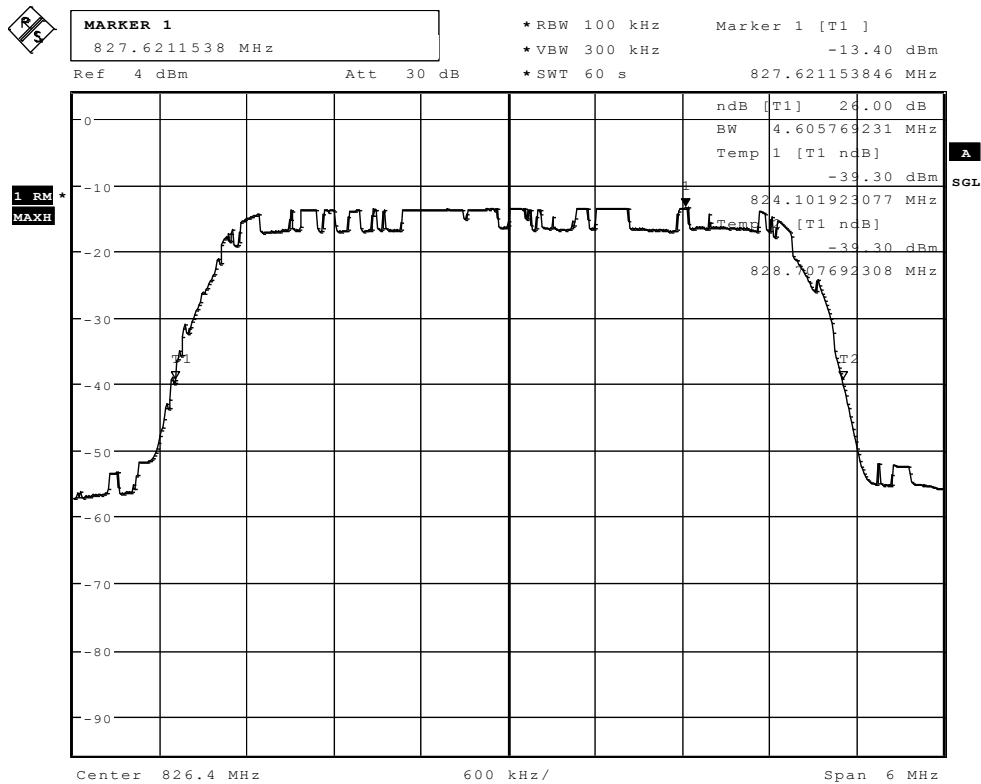
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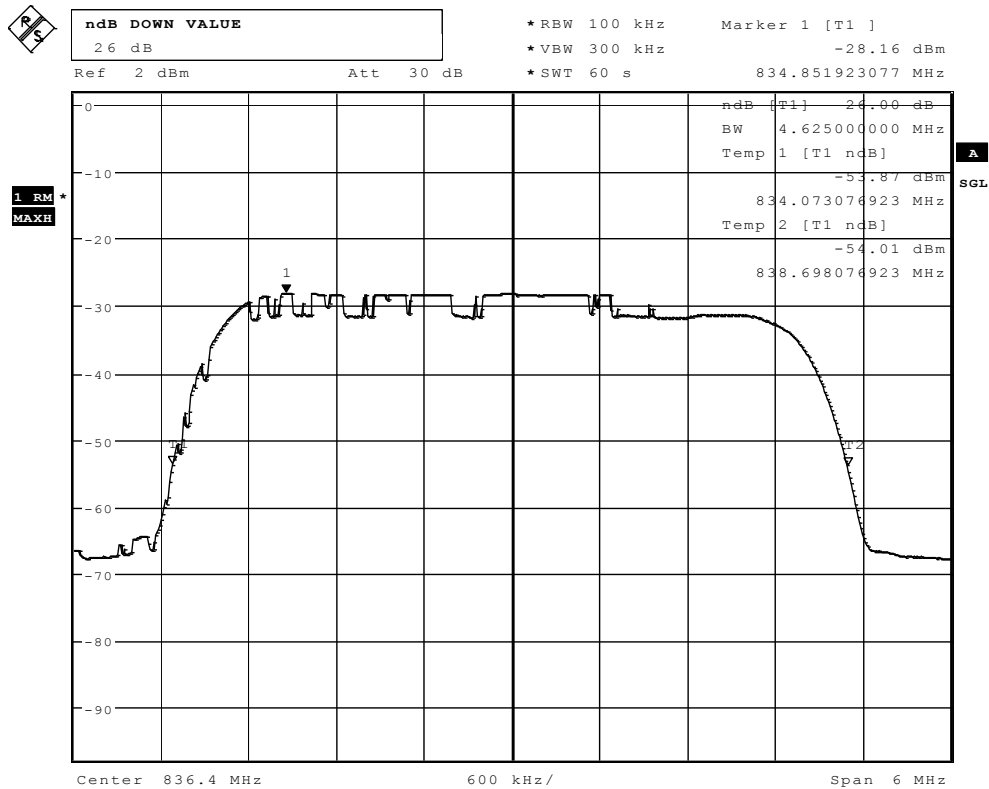


### 1.1.5. FDD Band V – Voice Mode



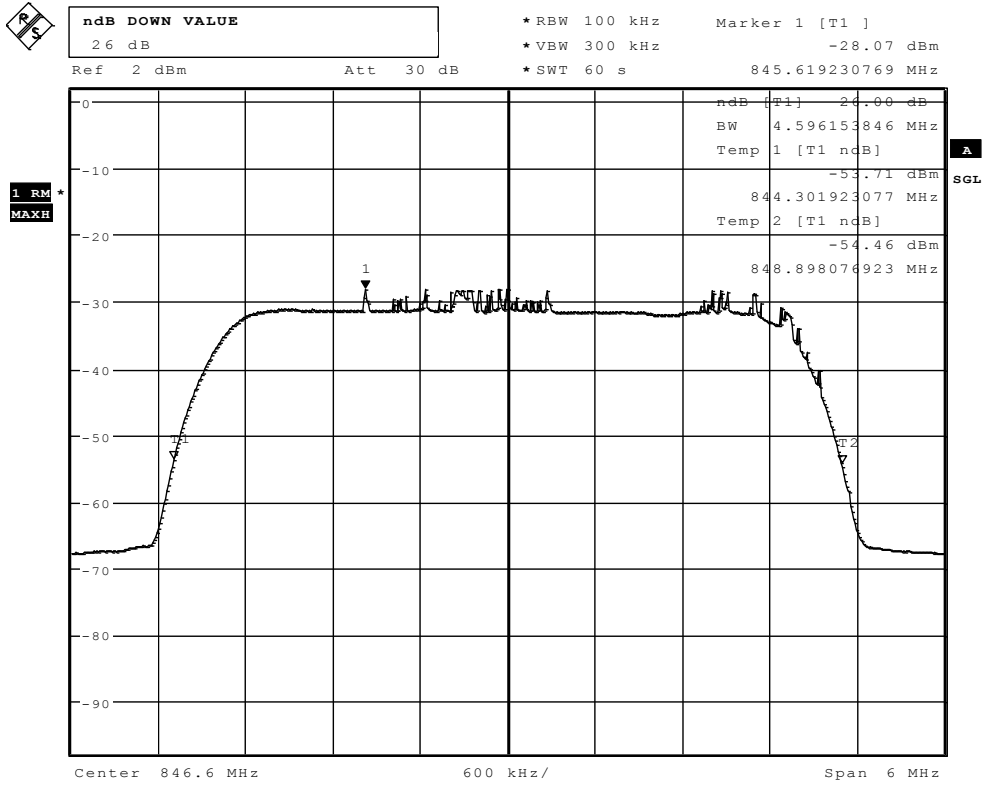
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Channel 4132



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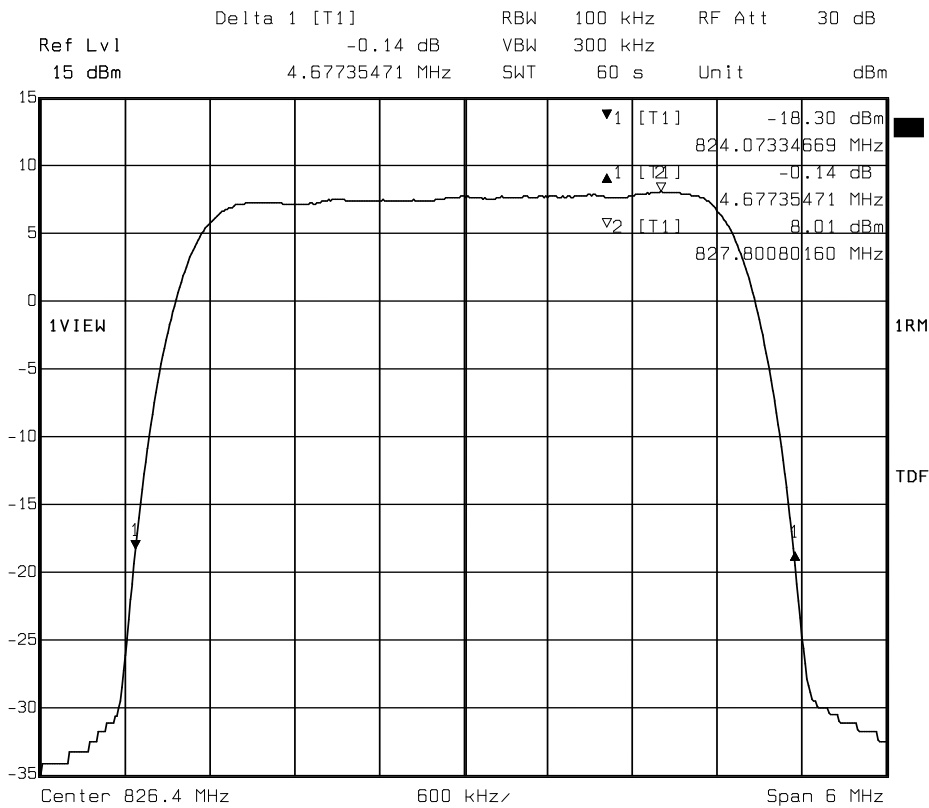
Channel 4183



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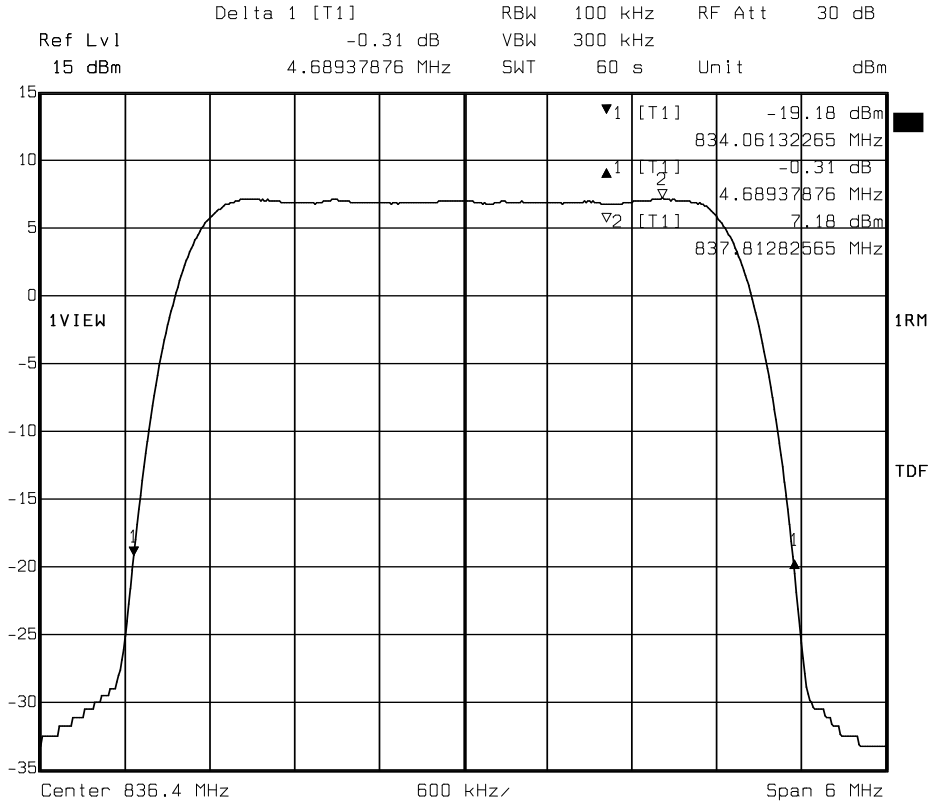
Channel 4233

### 1.1.6. FDD Band V – HSUPA Mode

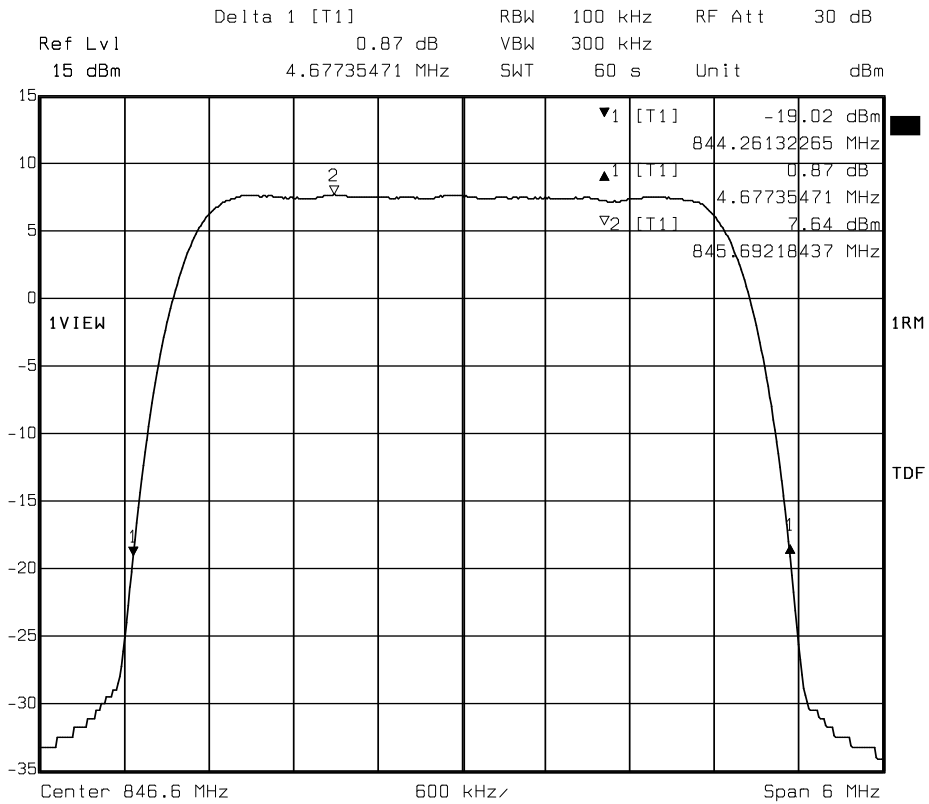


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Channel 4132



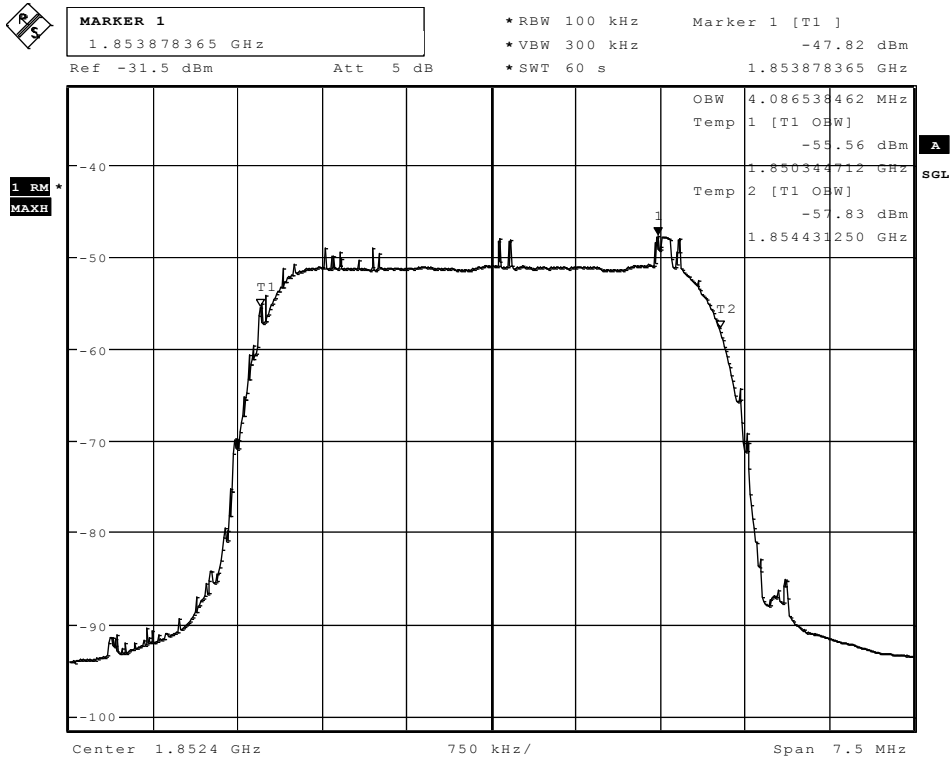
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 Channel 4183



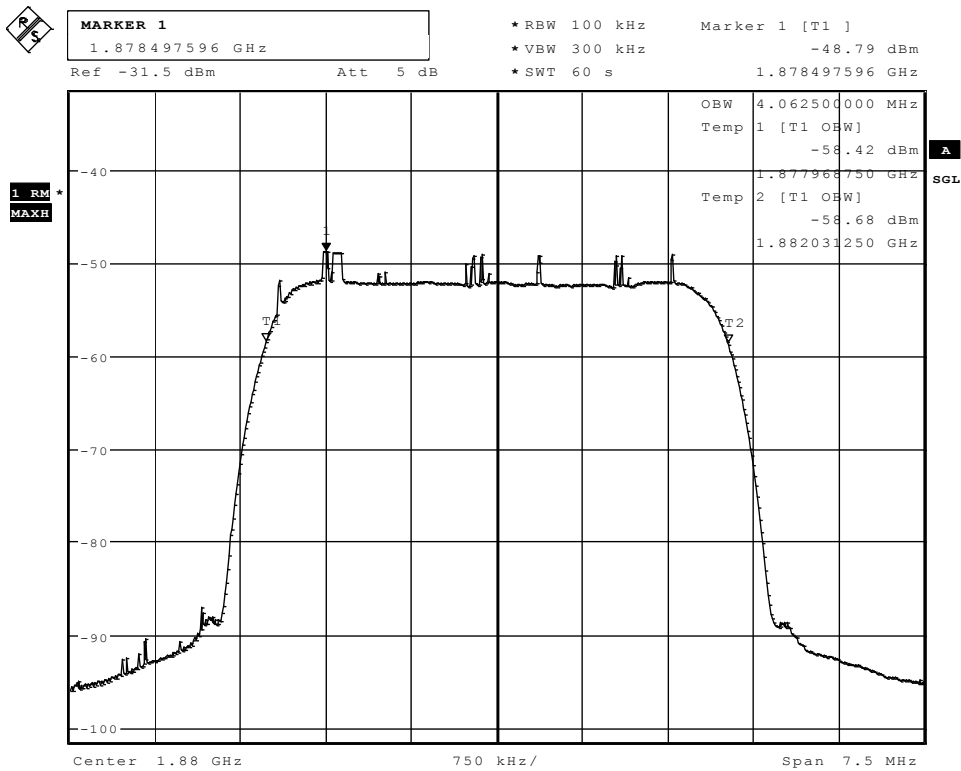
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 Channel 4233

## 1.2. 99% Occupied bandwidth

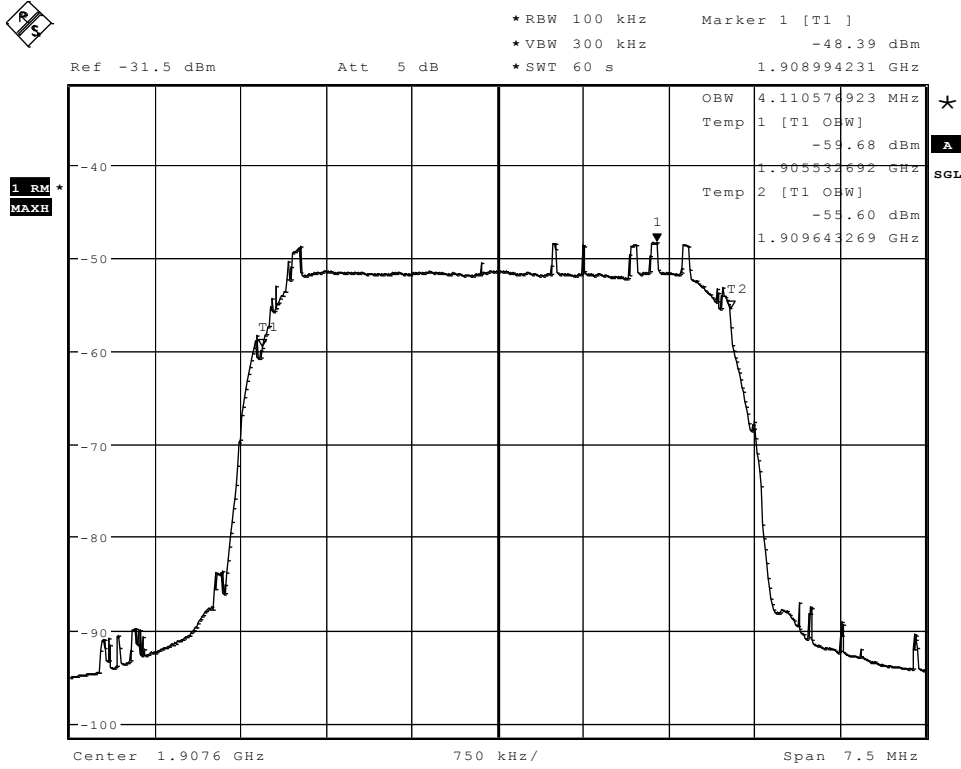
### 1.2.1. FDD Band II – Voice Mode



Date: 16.SEP.2011 18:19:11  
Channel 9262

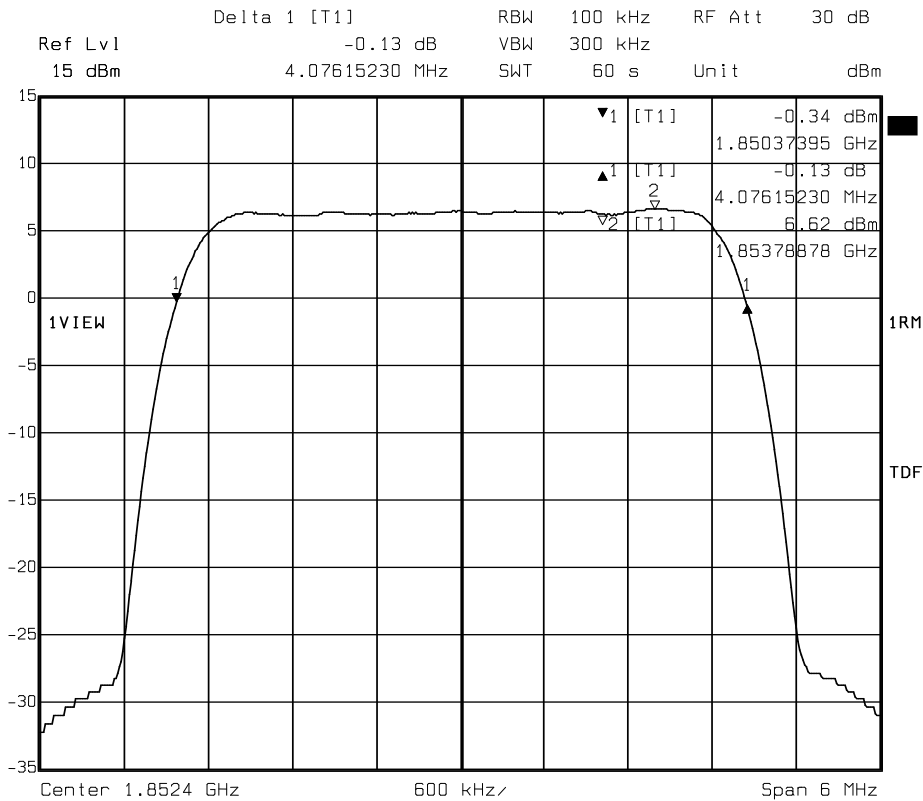


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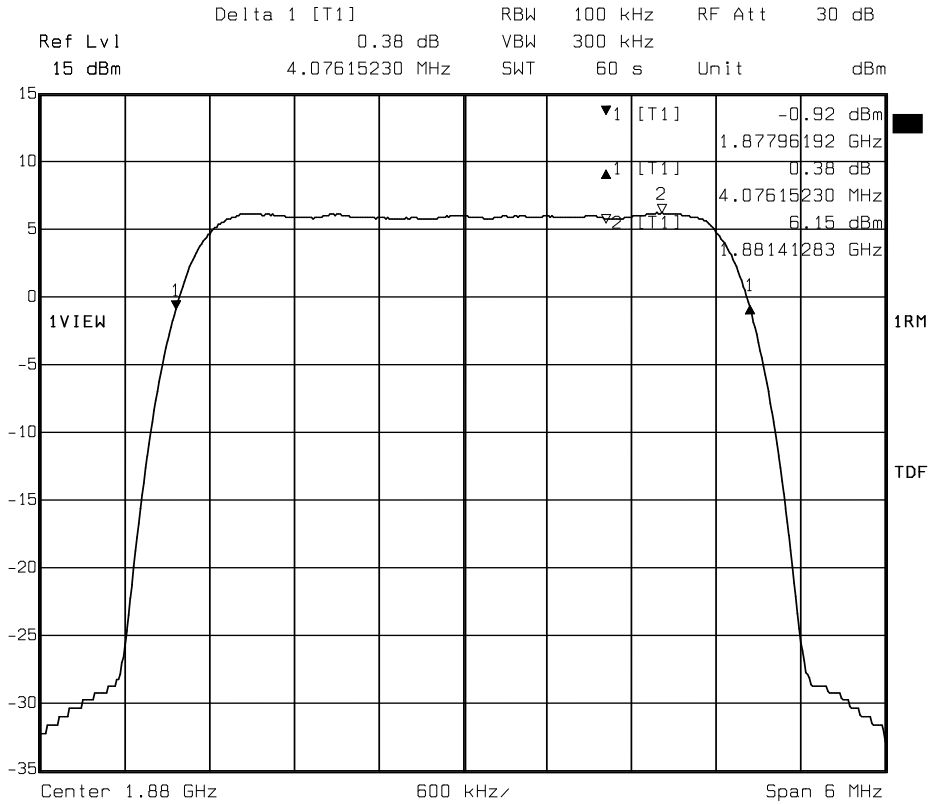


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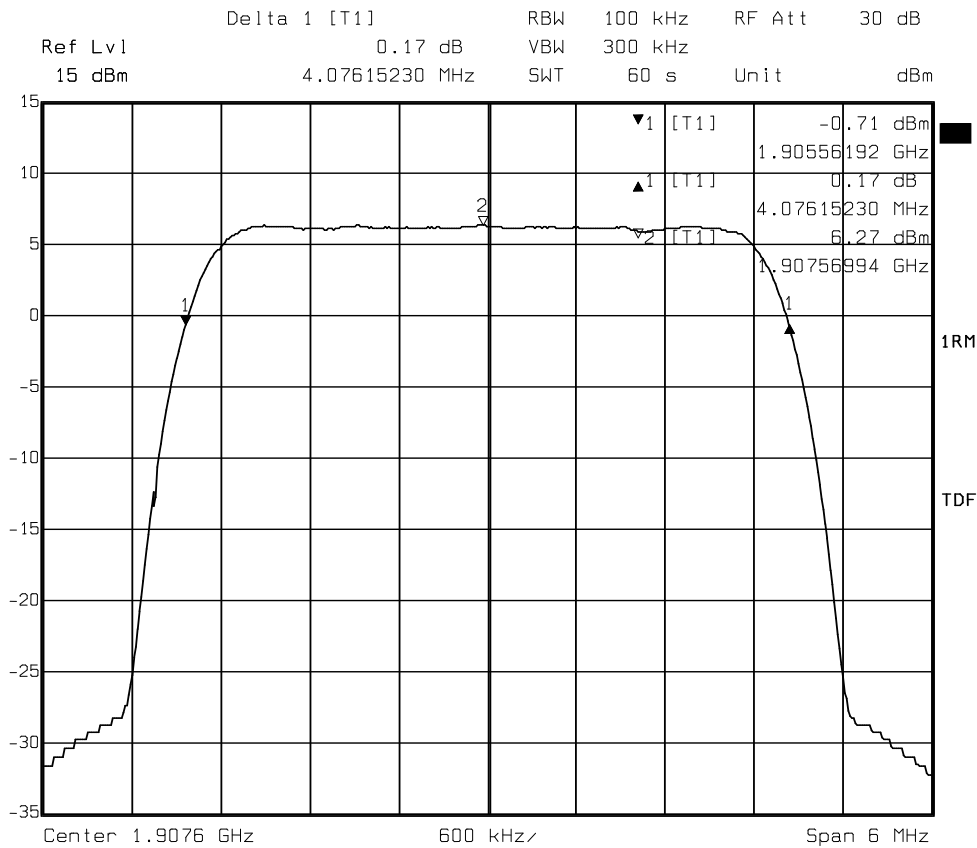
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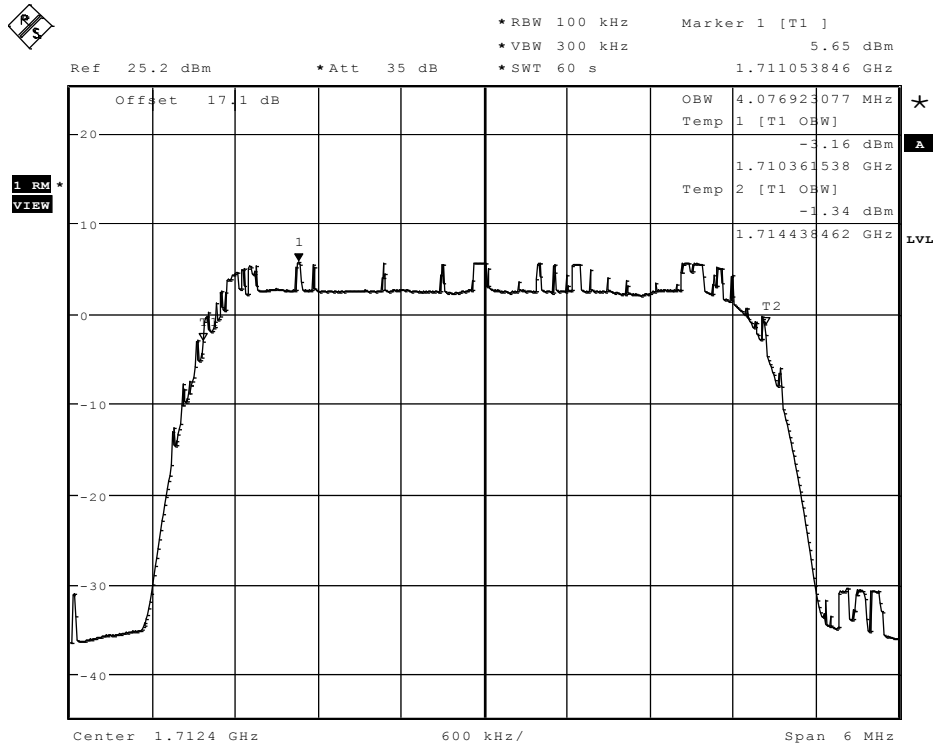


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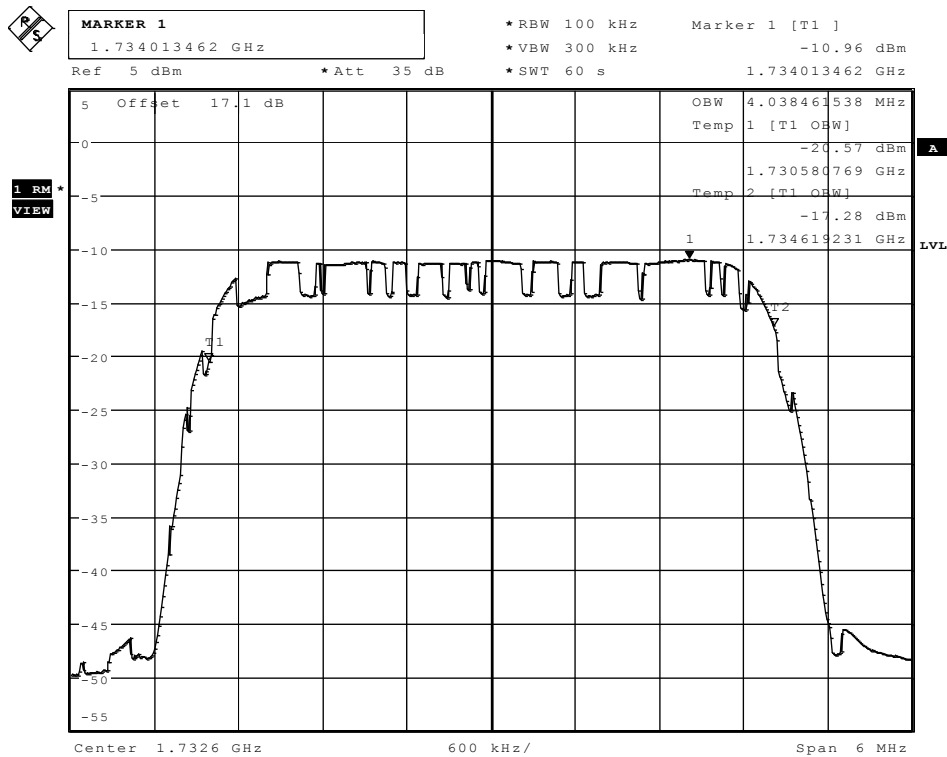


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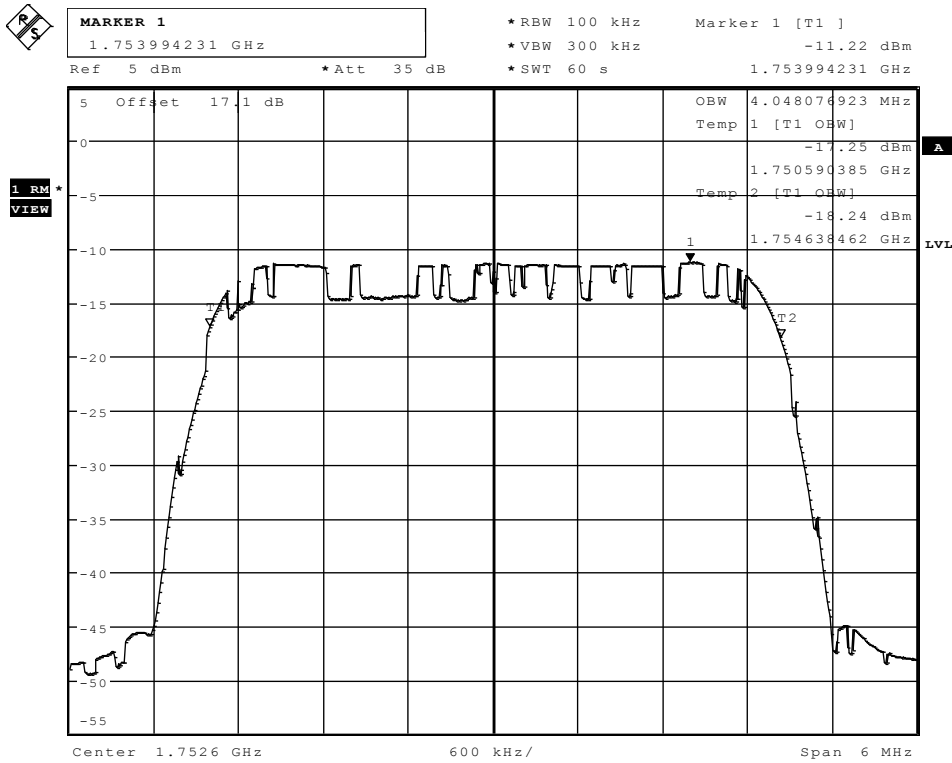
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Channel 1312

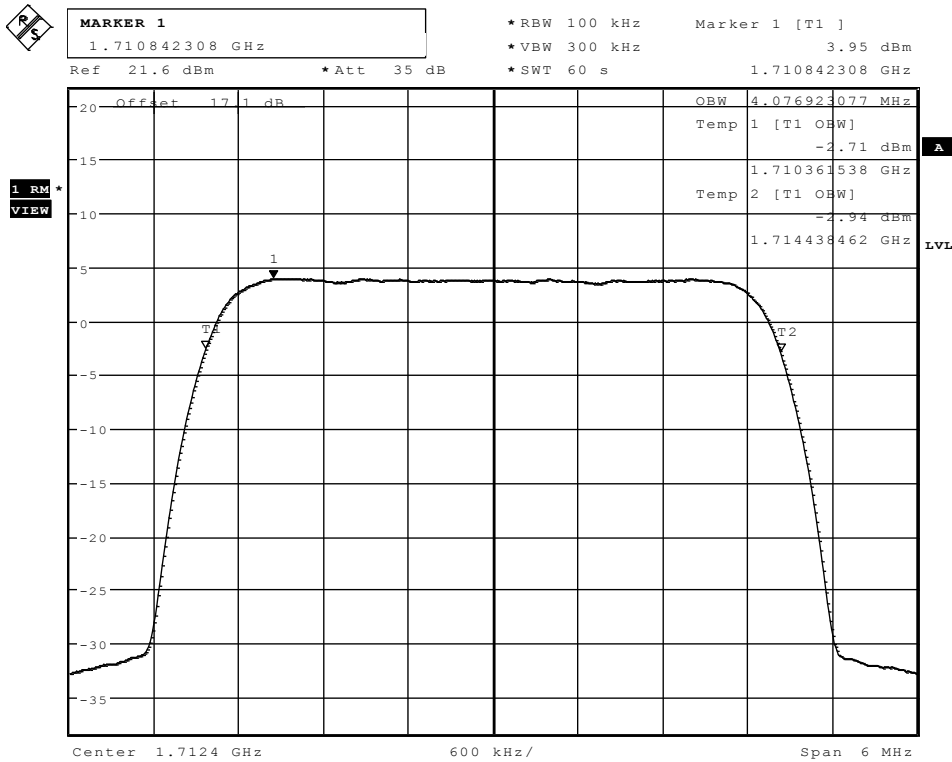


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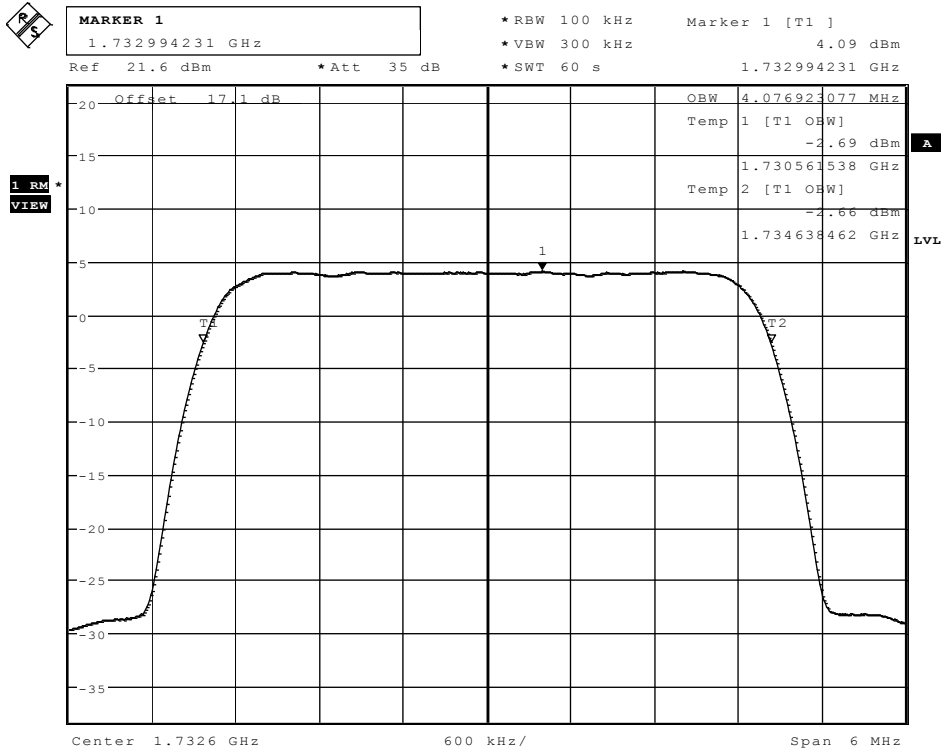
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 Channel 1513

### 1.2.4. FDD Band IV – HSUPA Mode



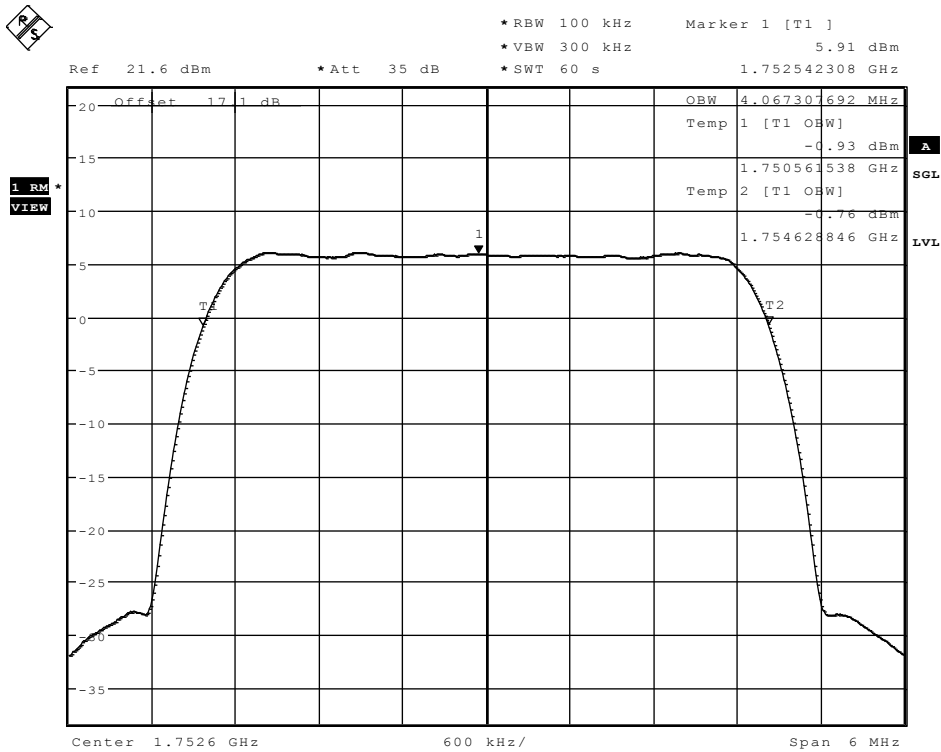
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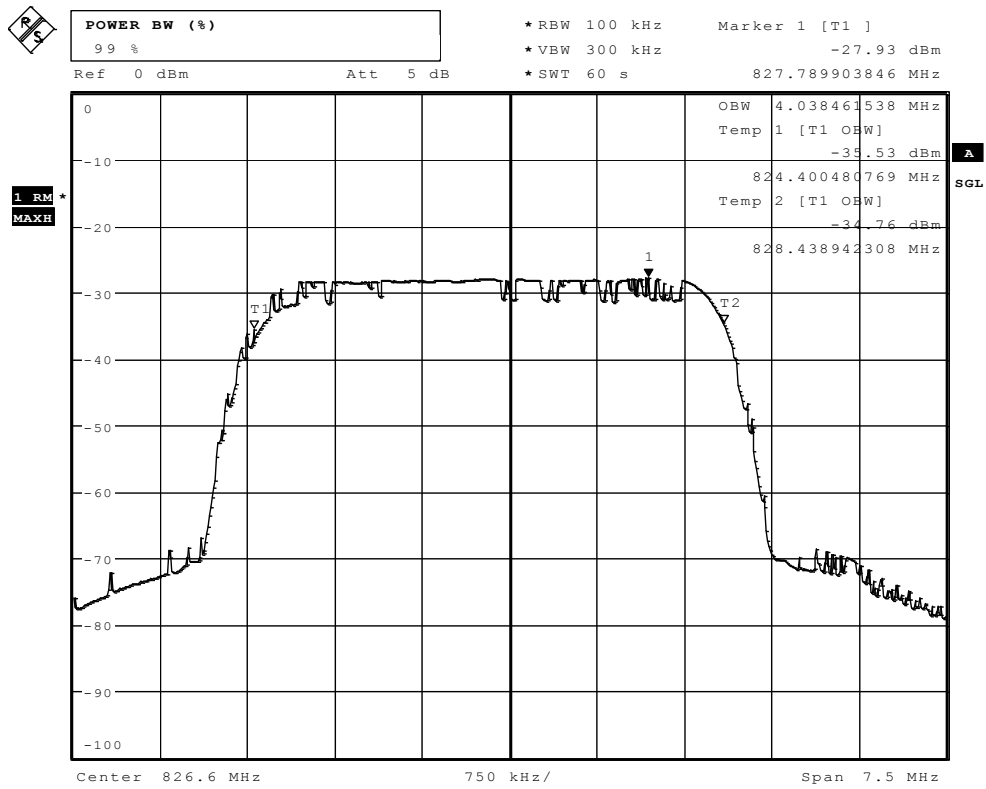
Channel 1450



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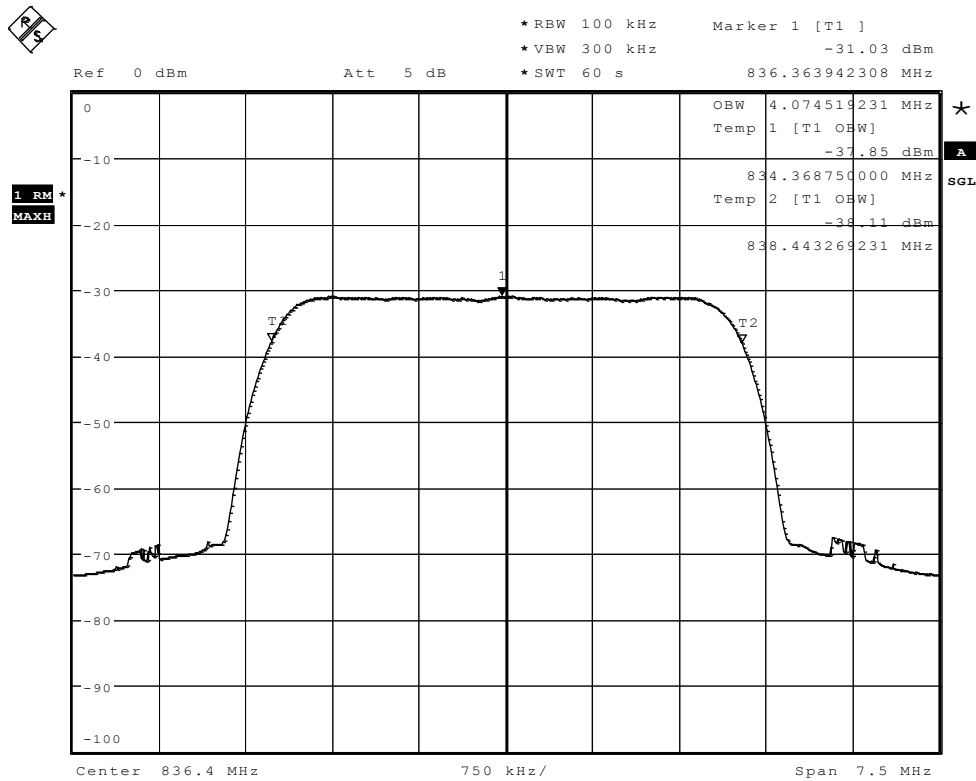
Channel 1513

### 1.2.5. FDD Band V – voice mode



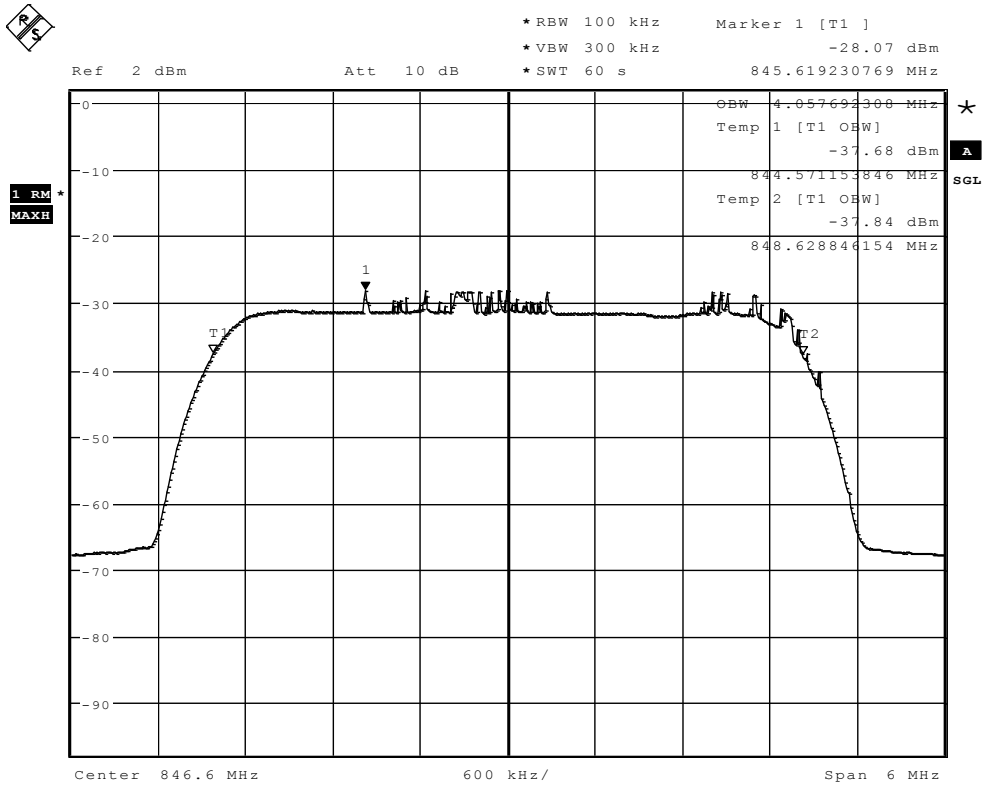
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Channel 4132



Date: 16.SEP.2011 16:38:54

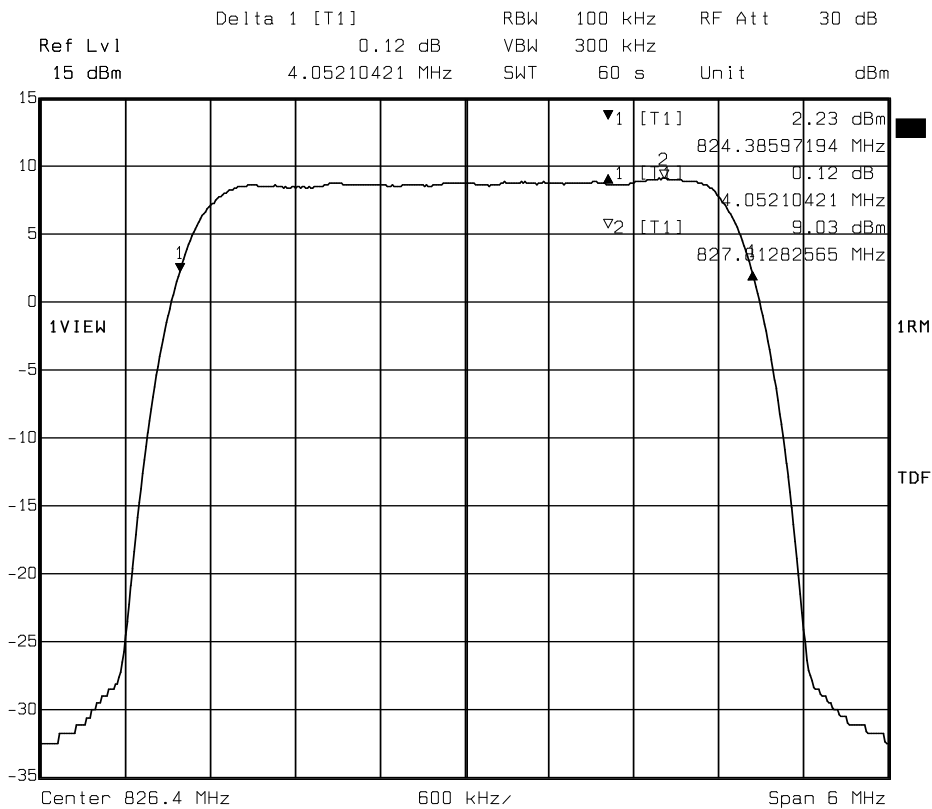
Channel 4183



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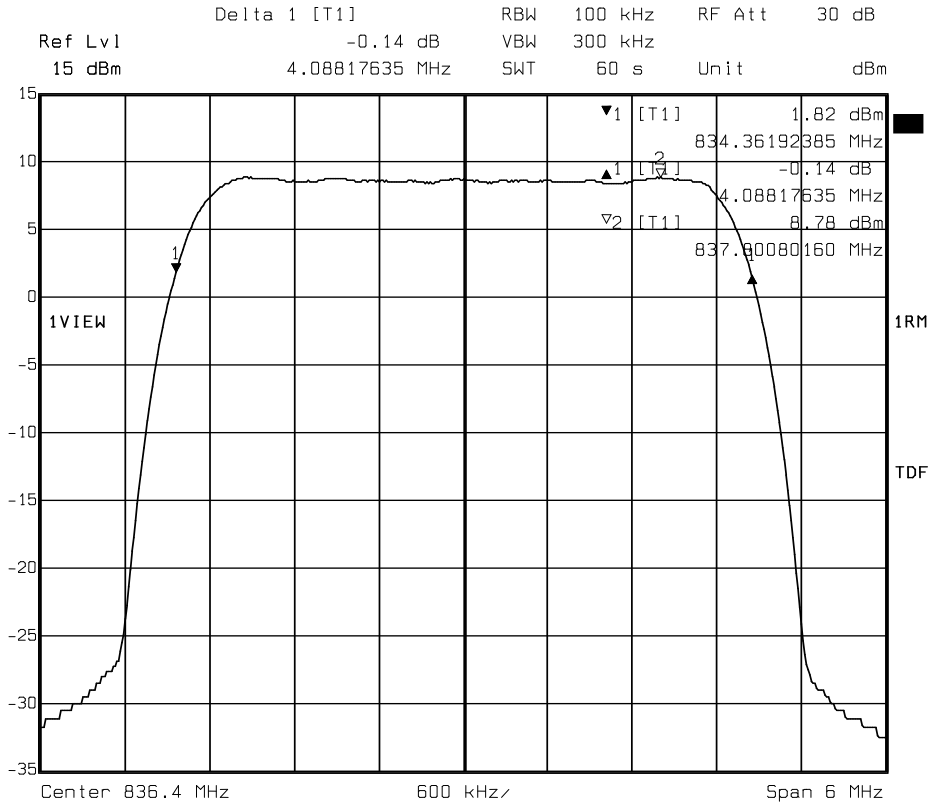
Channel 4233

### 1.2.6. FDD Band V – HSUPA Mode

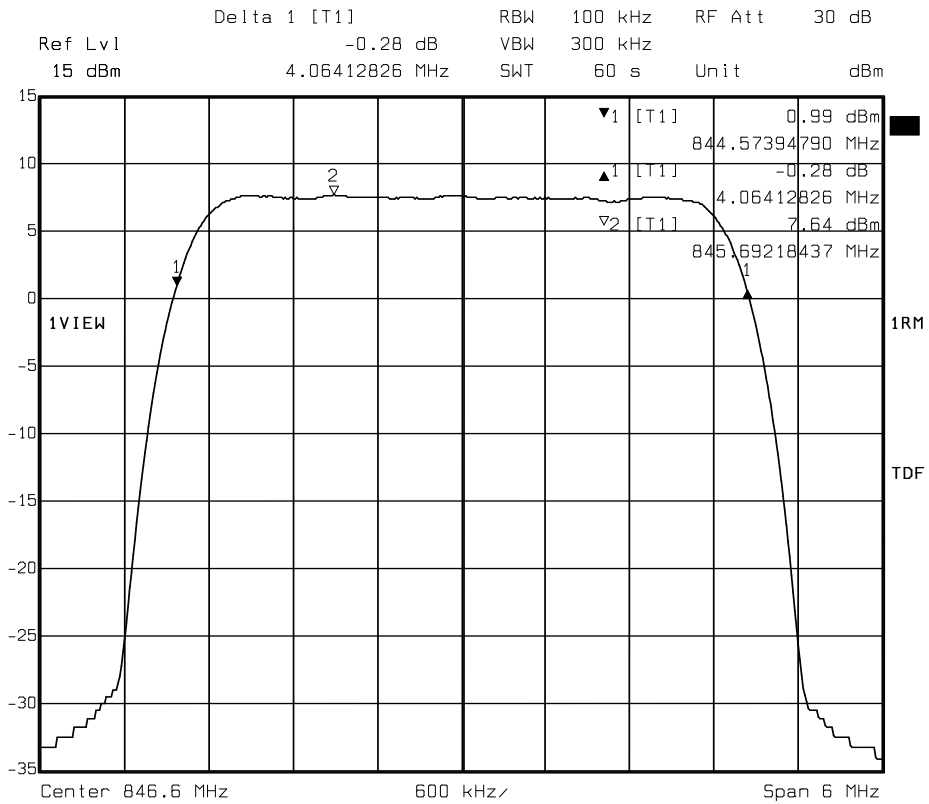


Date: 26.SEP.2011 09:24:48

Channel 4132



Date: 26.SEP.2011 09:21:08  
 Channel 4183



Date: 26.SEP.2011 09:30:03  
 Channel 4233

### 1.3. Spurious emissions conducted – FDD Band V Mode

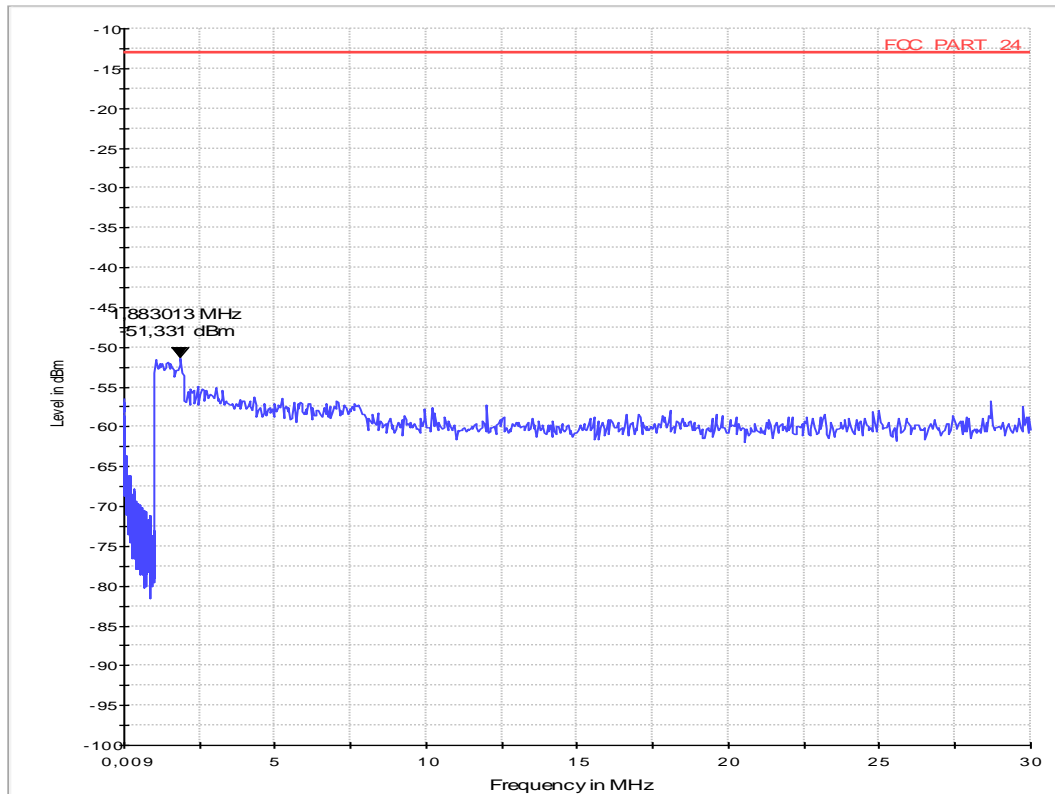
#### 1.3.1. Spurious emissions voice mode

#### b\_TX\_FDD5\_voice\_sweep1\_low

##### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC Part 22, RSS-132  
  
 EUT: REA71UW, rev. 2 (CER-41251-001 09-01-11)  
 Manufacturer: RIM  
 Operation mode: TX, UARFCN 4132 low  
 Operator Name: Tas  
 Comment: Vnom: 3,8V

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.24

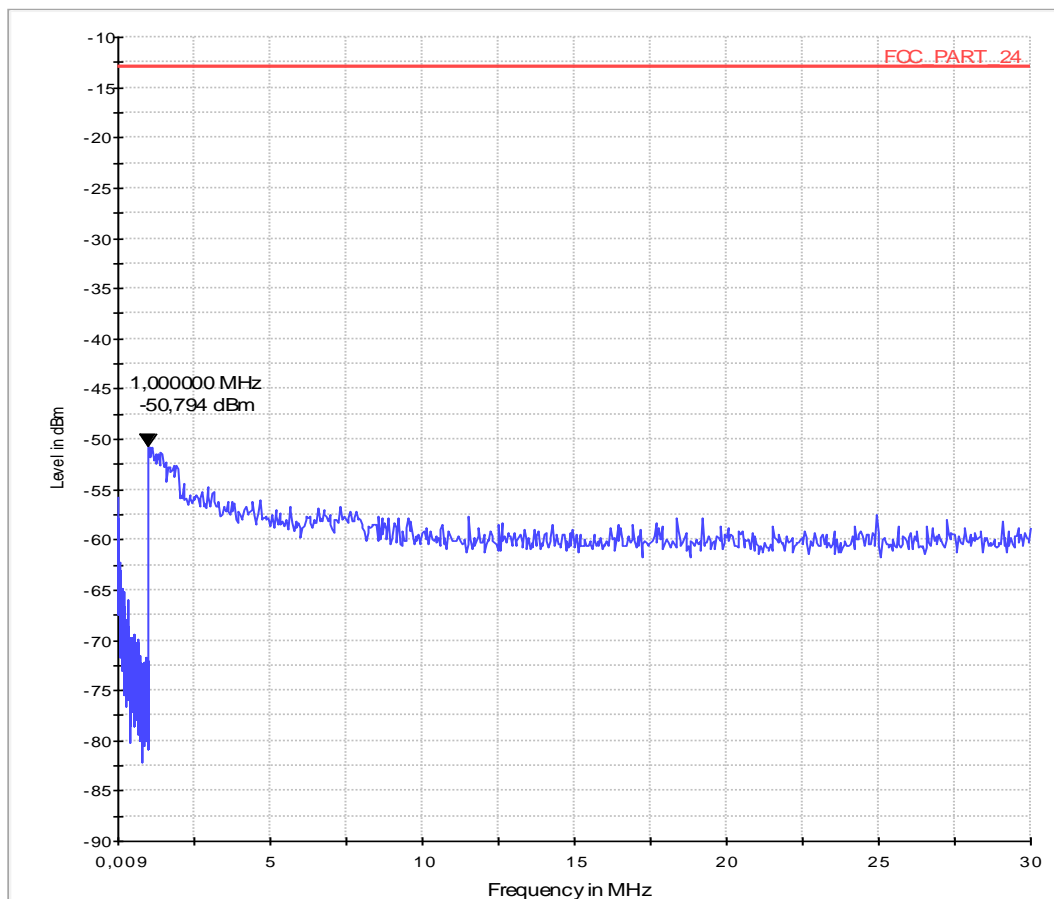
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22,RSS-132  
 Op. Mode: FDDV TX Voice  
 UE Channel: middle channel 4182  
 Environment Conditions: 23°C 47%

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N : CER\_41251\_00109\_01\_11

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

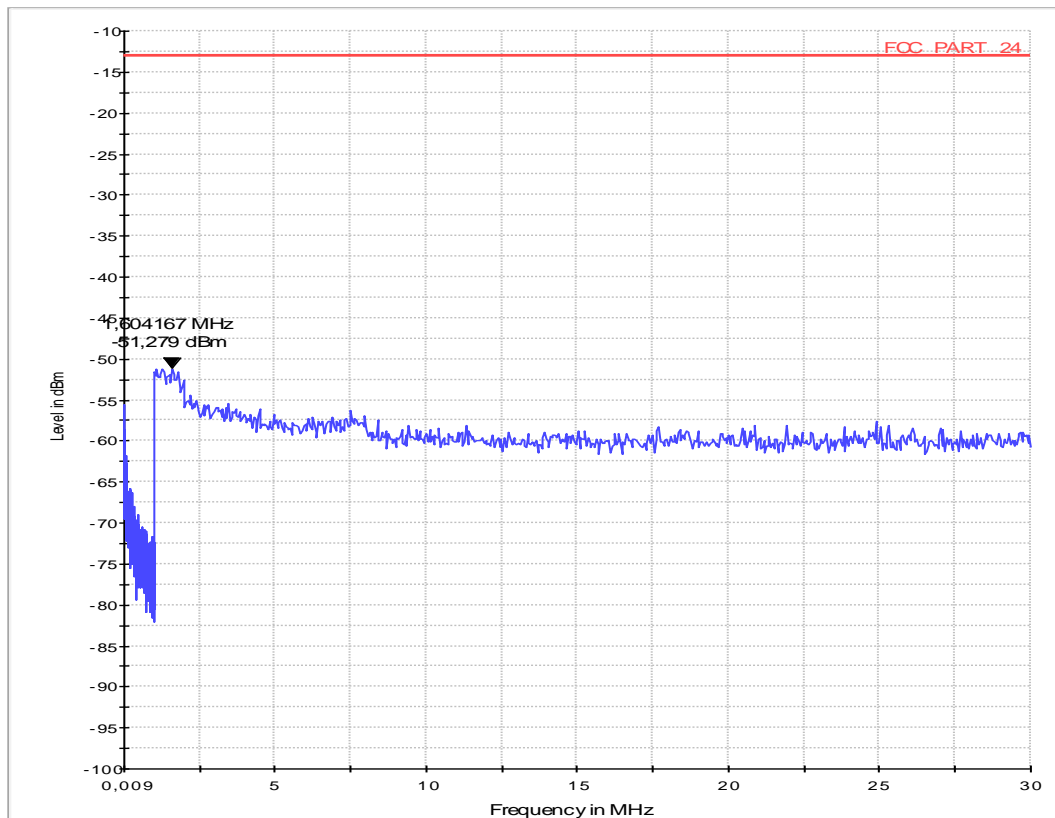
Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### b\_TX\_FDD5\_voice\_sweep1\_high

#### Common Information

Test Description:	TX Spurious Emission conducted
Test Site:	Radio laboratory
Test Standard:	FCC Part 22, RSS-132
EUT:	REA71UW, rev. 2 (CER-41251-001 09-01-11)
Manufacturer:	RIM
Operation mode:	TX, UARFCN 4233 high
Operator Name:	Tas
Comment:	Vnom: 3,8V

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup:	31_ESU_Conducted_FCC_Part_15_22_24
Receiver:	[ESU 40]
Level Unit:	dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.21

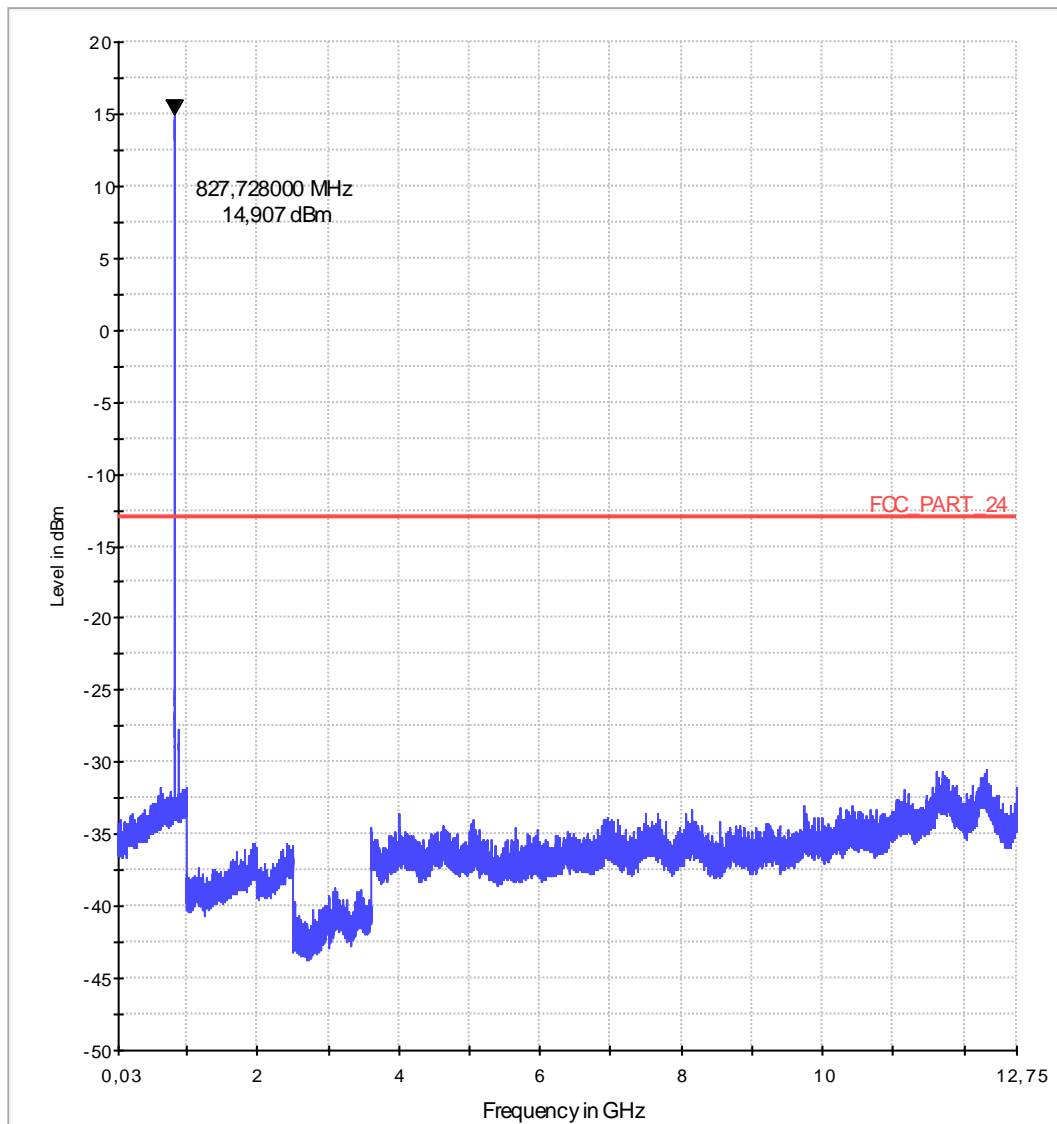
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 22, RSS-132
Op. Mode:	FDDV TX Voice
UE Channel:	low channel 4132

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2





### Diagram No.: 4.22

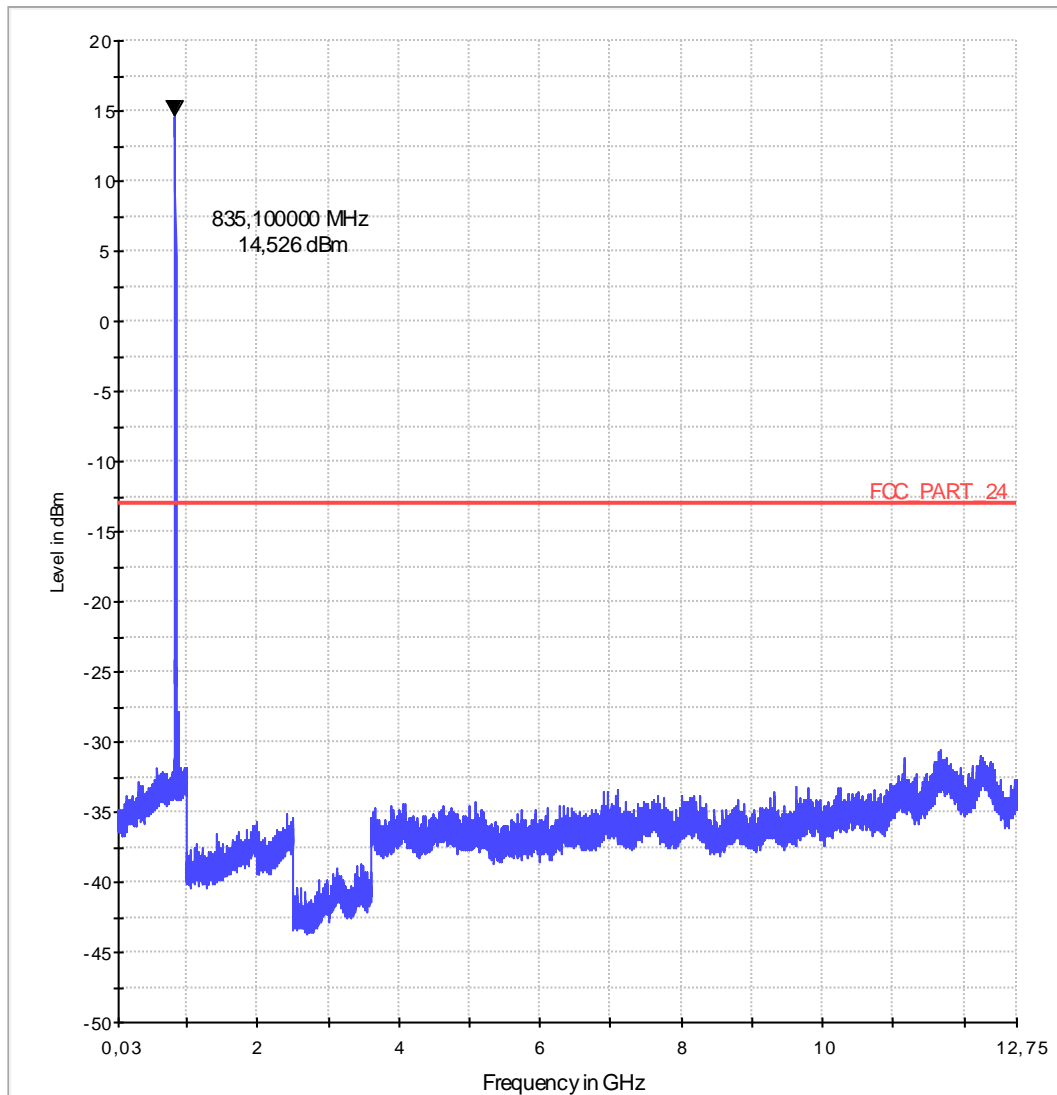
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 22,RSS-132
Op. Mode:	FDDV TX Voice
UE Channel:	middle channel 4182
Environment Conditions:	23°C 47%

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



### Diagram No.: 4.23

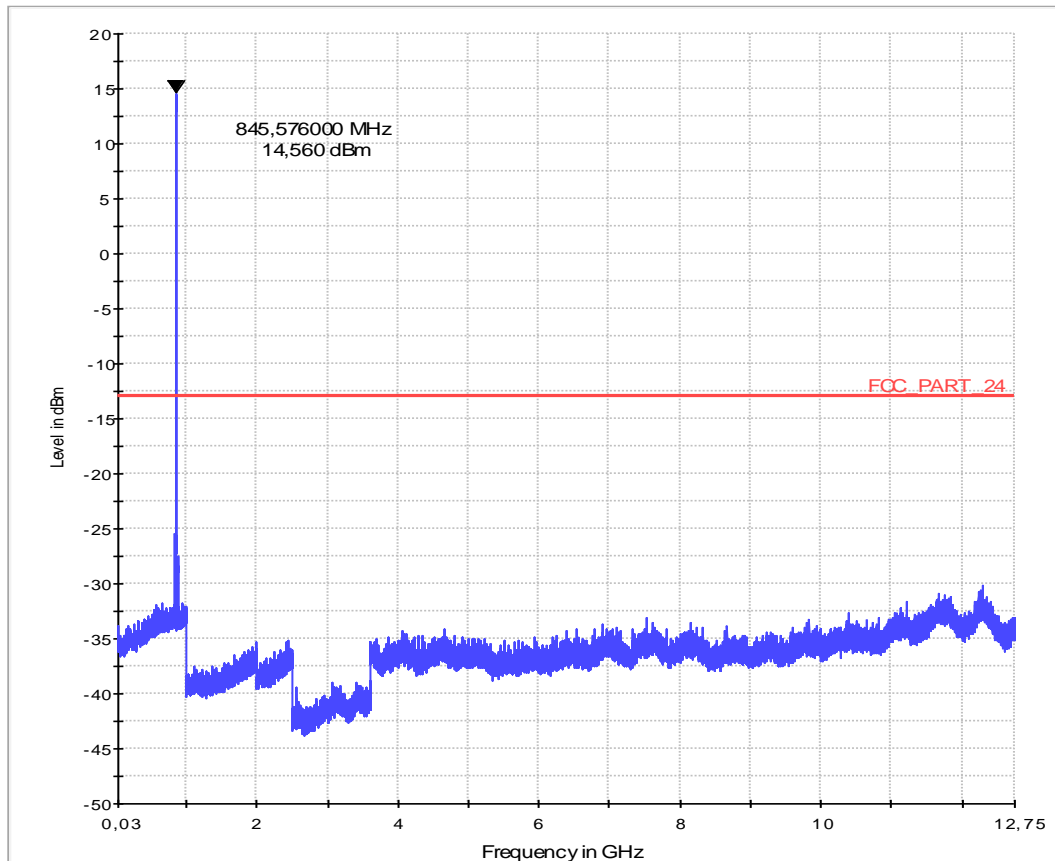
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22,RSS-132  
 Op Mode: FDDV TX Voice  
 UE Channel: high 4233  
 Environment Conditions: 23°C 47%  
 Operator: dpa

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_2



#### Sweep Setup: Sweep\_2 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	388 kHz	PK+	1 MHz	100 s	0 dB
1 GHz - 2,5 GHz	600 kHz	PK+	1 MHz	15 s	0 dB
2.5 GHz - 12,75 GHz	512,5 kHz	PK+	1 MHz	100 s	0 dB

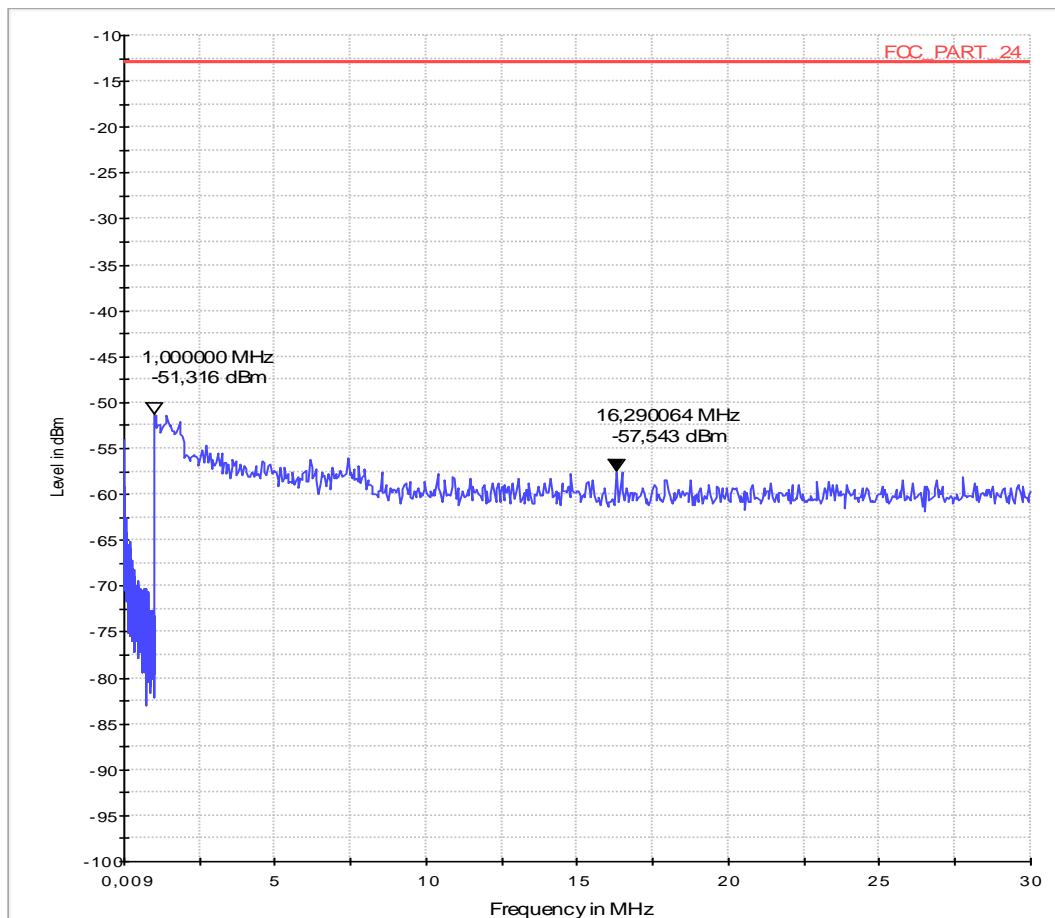
### 1.3.2. Spurious emissions HSUPA mode

#### Diagram No.: b\_47

#### Common Information

Test Description:	TX Spurious Emission conducted
Test Site:	Radio laboratory
Test Standard:	FCC 2.1051 , RSS 132
EUT:	REA71UW rev 2
Manufacturer:	RIM
S/N	CER_41251_00109_01_11
Operation mode:	TX, UARFCN 4132 low
Operator Name:	HLA
Comment:	HSUPA, Vnom = 3,8 V

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup:	31_ESU_Conducted_FCC_Part_15_22_24
Receiver:	[ESU 40]
Level Unit:	dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

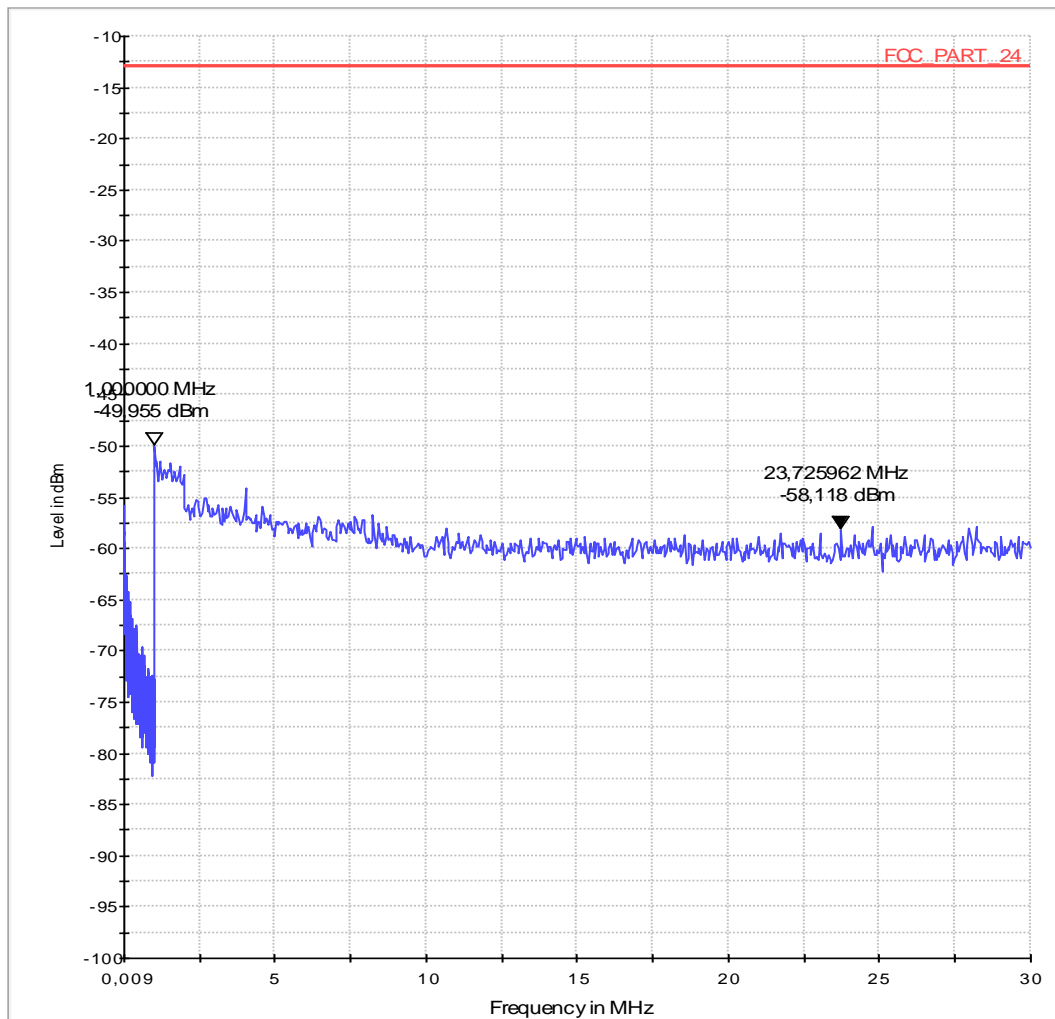
### Diagram No.: b\_14.17

#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC 22 RSS-132

Operator Name: HLa  
 EUT: REA71UW Rev2, CER-41251-001- 09-01-11  
 Operation mode: TX, UARFCN 4182 middle  
 Comment: HSUPA, Vnom: 3,8V  
 S/N: CER- 41251-00109-01-11

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

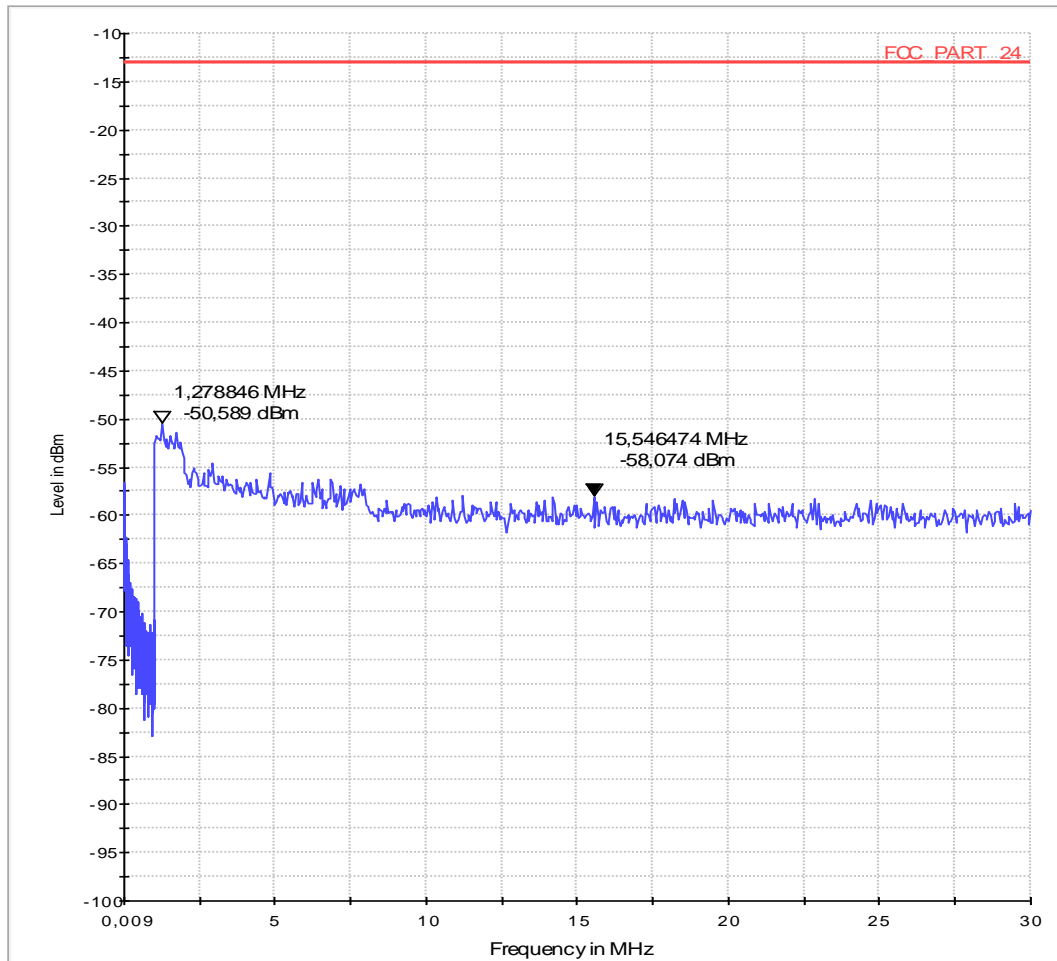
### Diagram No.: b\_4.48

#### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC 2.1051 , RSS 132

EUT: REA71UW rev 2  
 Manufacturer: RIM  
 Operation mode: TX, UARFCN 4233 high  
 Operator Name: HLA  
 Comment: HSUPA, Vnom: 3,8V

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

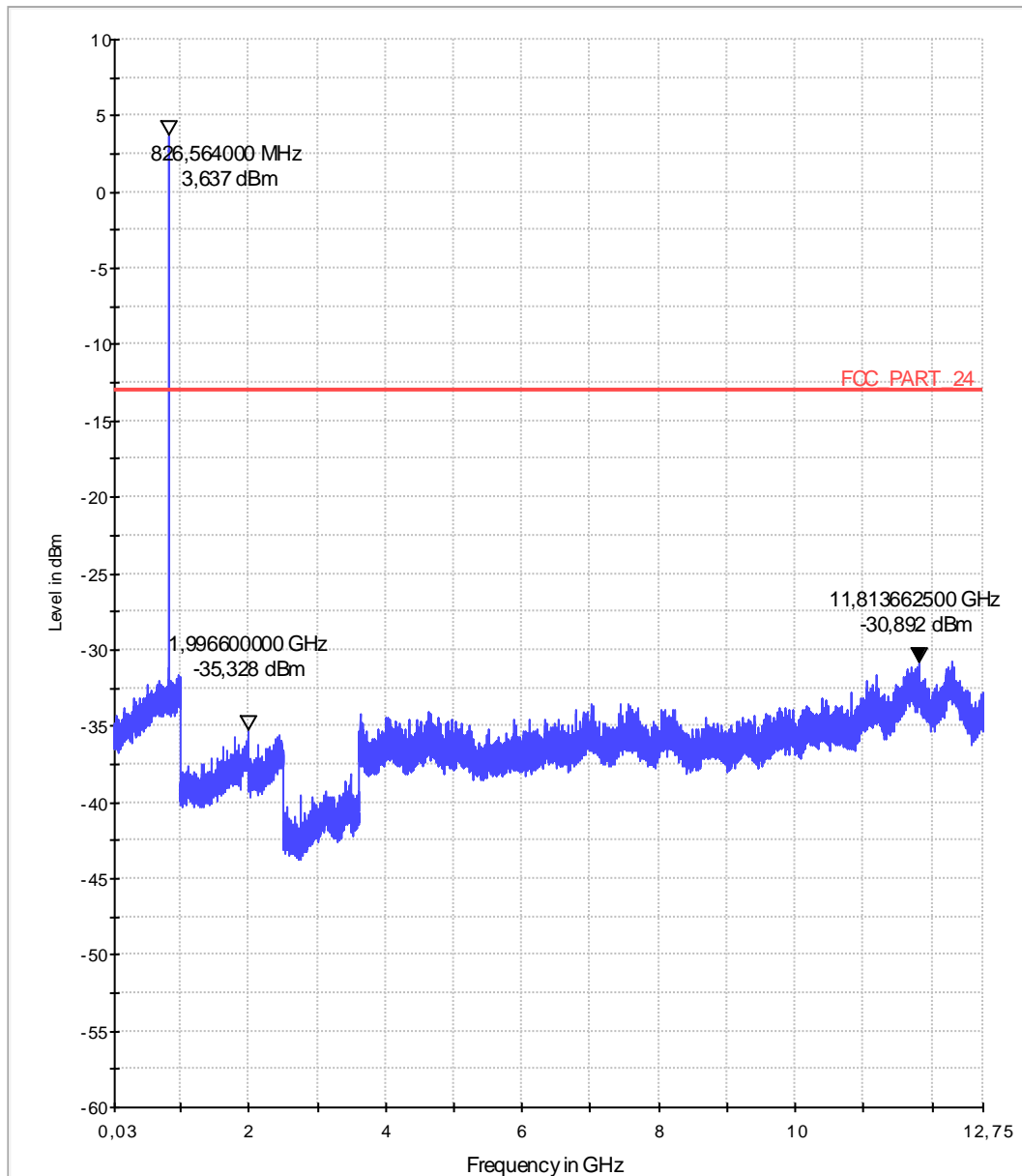
Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No. : b\_14.15

#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio laboratory
Test Standard:	FCC 22 RSS-132
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mode:	TX, UARFCN 4132 low
Comment:	HSUPA, Vnom: 3,8V

Sweep\_2

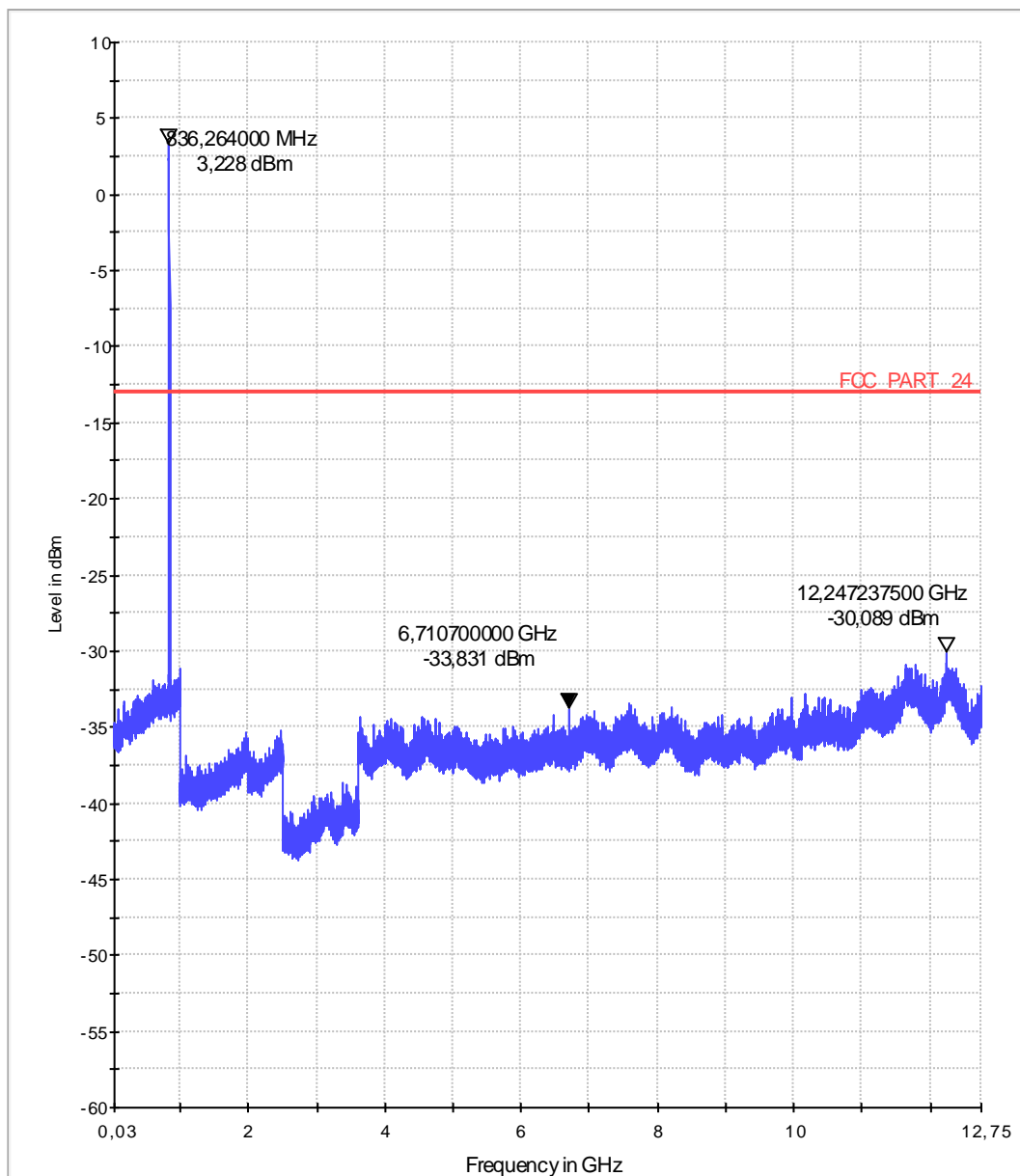


### Diagram No b\_14.16

#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio laboratory
Test Standard:	FCC 22, RSS-132
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mode:	TX, UARFCN 4182 middle
Comment:	HSUPA, Vnom: 3,8V

Sweep\_2

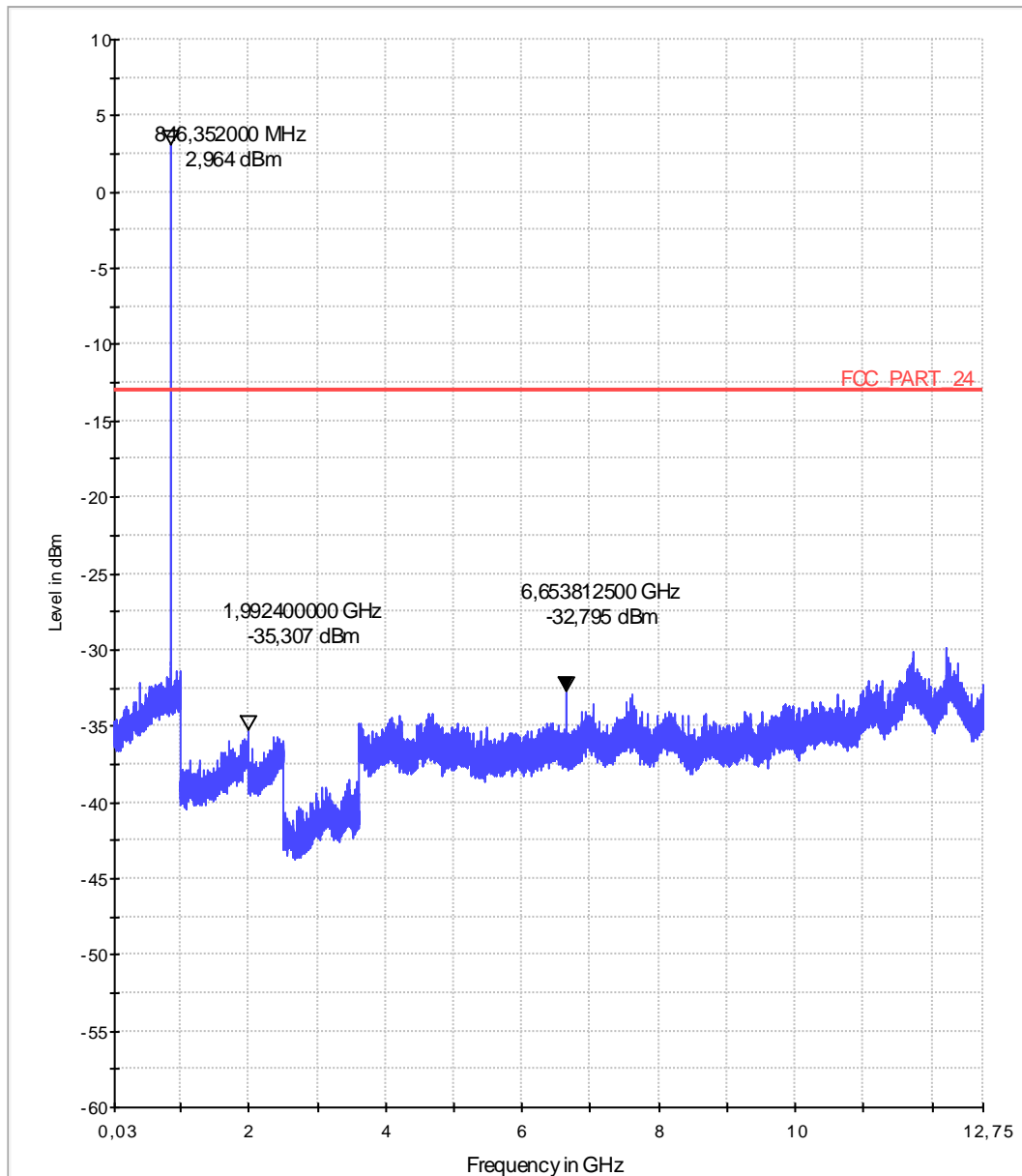


### Diagram No b\_14.18

#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio laboratory
Test Standard:	FCC 22; RSS-132
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mode:	TX, UARFCN 4233 high
Comment:	HSUPA, Vnom: 3,8V

Sweep\_2





### 1.3.3. Band-Edge compliance conducted – voice mode

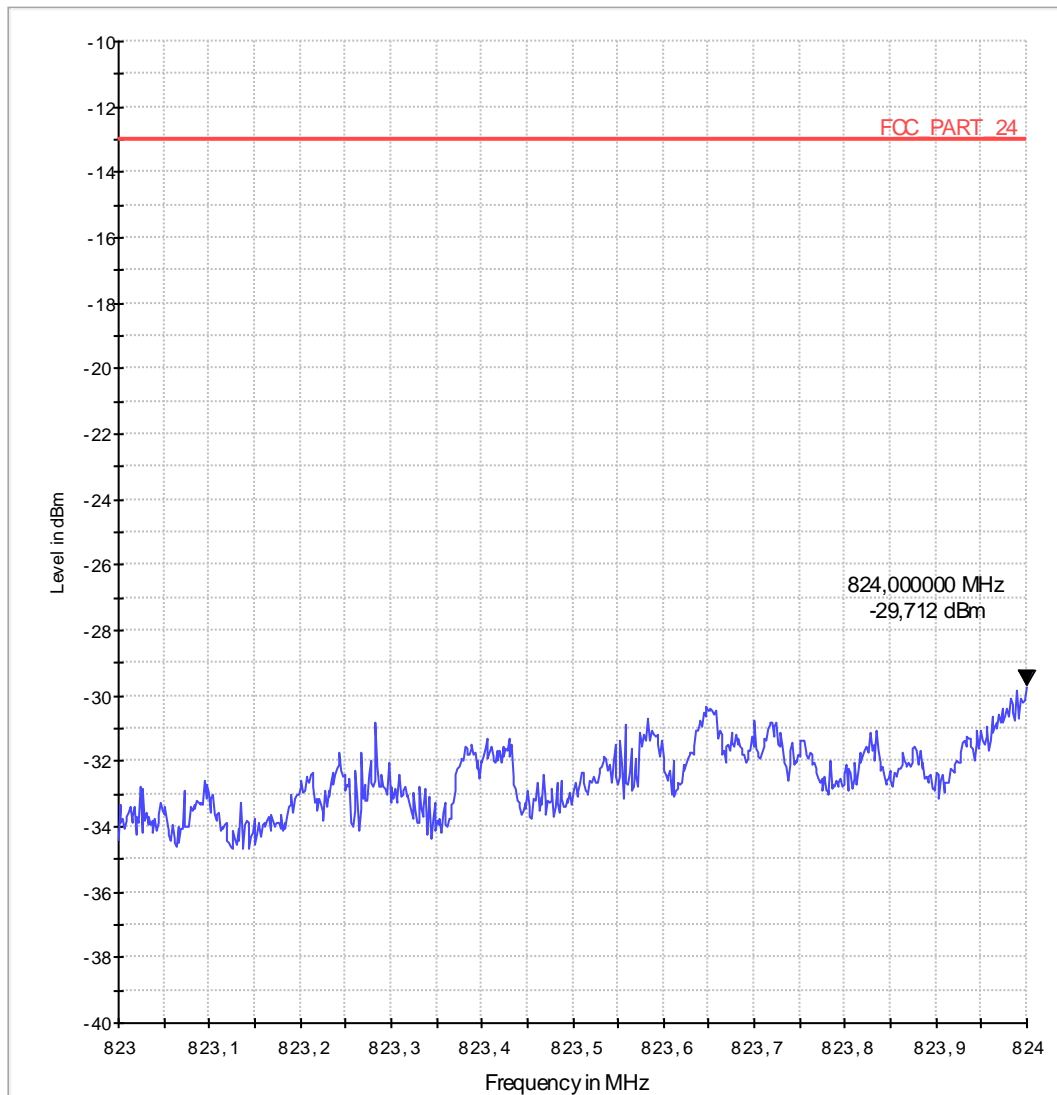
#### Diagram No.: 4.19

#### Common Information

Test Description:	Band Edge Conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 22.917, RSS-132
Environment Conditions:	23°C 47%
Operator Name:	dpa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11

Manufacturer:	RIM
Voltage:	3.8V DC
Op.Mode:	HSUPA, TX UMTS V, Ch 4132(Low)

Sweep\_3a\_Band\_Edge\_Channel\_4132\_PK



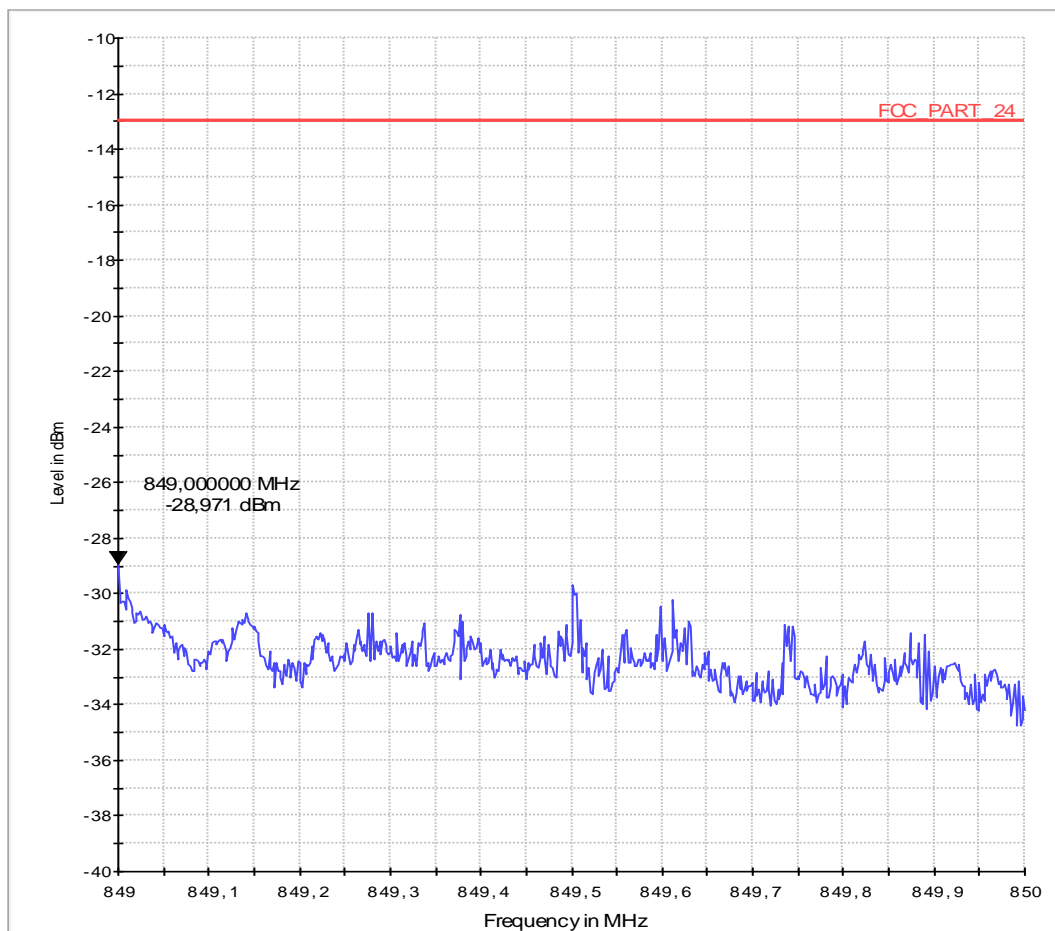
### Diagram No.: 4.20

#### Common Information

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22.917; RSS-132  
 Environment Conditions: 23°C 47%  
 Operator Name: dpa

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER-41251\_00109\_01\_11  
 Op.Mode: HSUPA, TX UMTS V; Ch 4233 (High)  
 Sweep\_3a\_Band\_Edge\_Channel\_4233\_PK



#### Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_4233\_PK [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
849 MHz - 850 MHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

**1.3.4. Band-Edge compliance conducted – HSUPA mode**

**Diagram No.: 4.43**

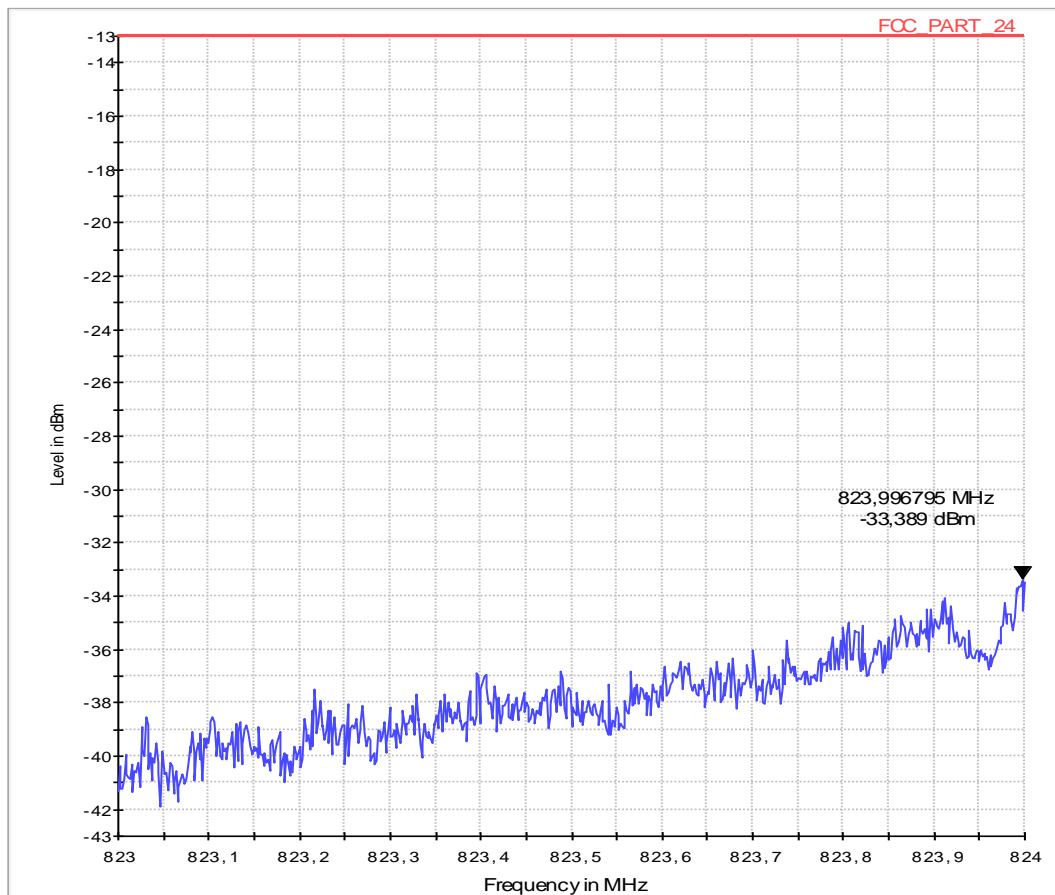
**Common Information**

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22; RSS-132  
 Op. Mode: FDDV TX HSUPA; Ch 4132 (Low)  
 Environment Conditions: 23°C 47%  
 Operator: dpa

**EUT Information**

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_4132\_PK



**Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_4132\_PK [EMI radiated]**

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
823 MHz - 824 MHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

### Diagram No.: 4.44

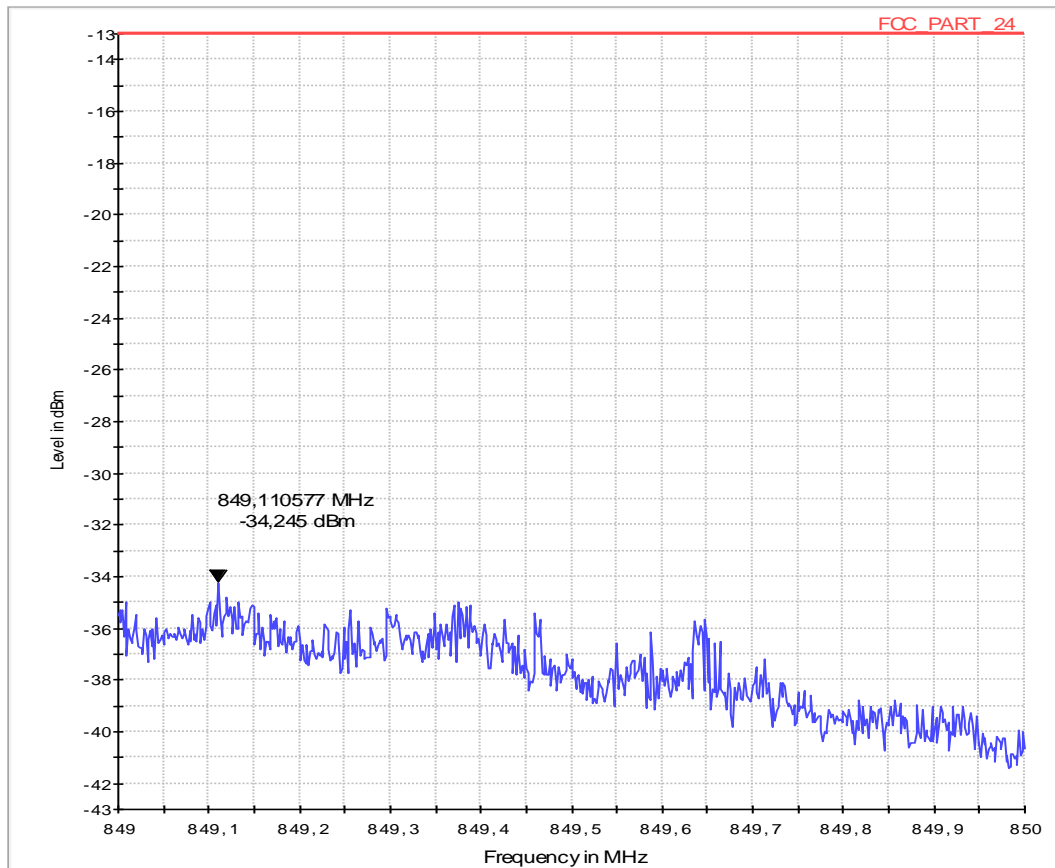
#### Common Information

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22\_RSS-132  
 Op. Mode: FDDV TX HSUPA, Ch 4233(High)  
 Environment Conditions: 23°C 47%  
 Operator: dpa

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_4233\_PK



#### Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_4233\_PK [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
849 MHz - 850 MHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

## 1.4. Spurious emissions conducted – FDD Band II Mode

### 1.4.1. Spurious emissions voice mode

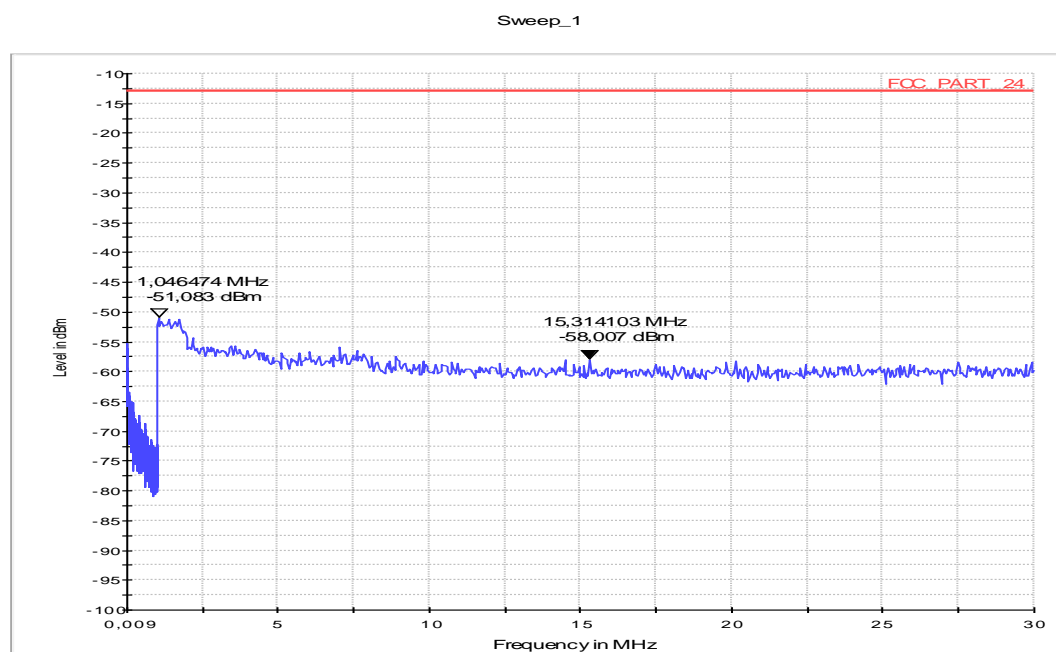
#### b\_TX\_FDD2\_Voice\_sweep\_1\_channel\_low

##### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC 2.1051 , RSS 133  
  
 Operation mode: TX, UARFCN 9262 Low  
 Operator Name: HLA  
 Comment: Vnom: 3,8V

##### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.28

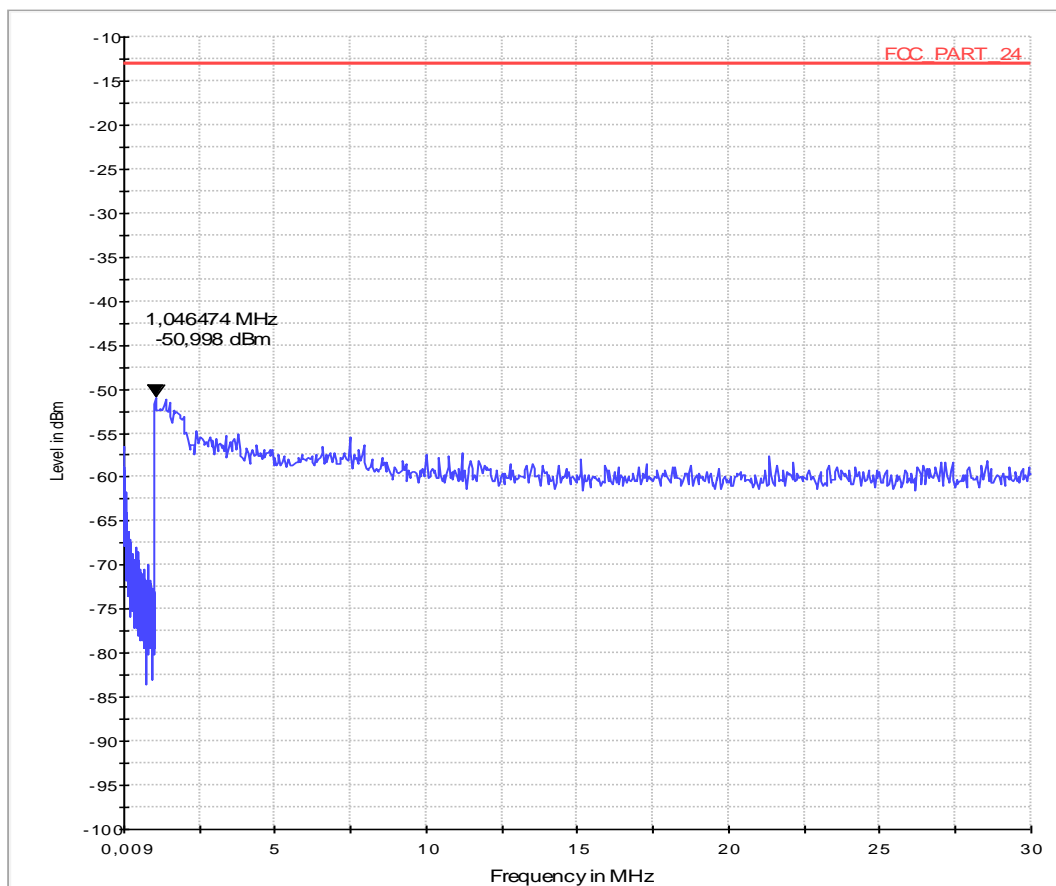
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 24.238, RSS-133  
 Op. Mode: FDDII TX Voice  
 UE Channel: middle channel 9400

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

## b\_TX\_FDD2\_Voice\_sweep1\_channel\_high

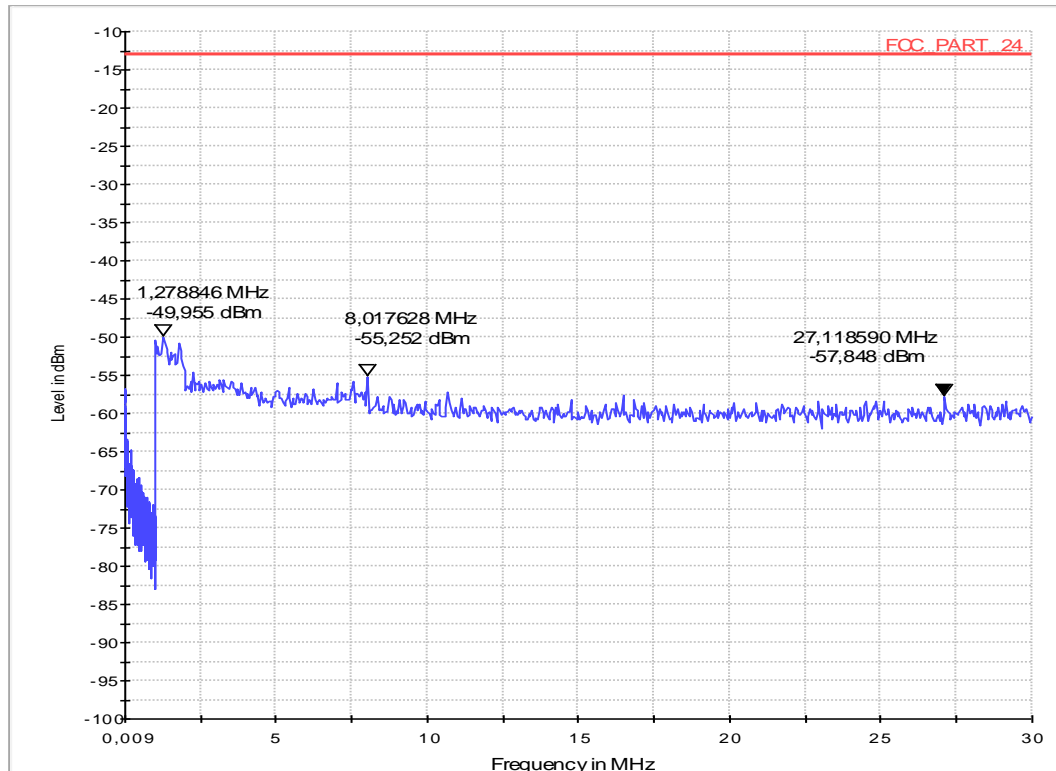
### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC 2.1051 , RSS 133  
 Antenna polarisation: vertical / horizontal  
  
 Operation mode: TX, UARFCN 9538 high  
 Operator Name: HLa  
 Comment: Vnom: 3,8V

### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC

Sweep\_1



### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.25

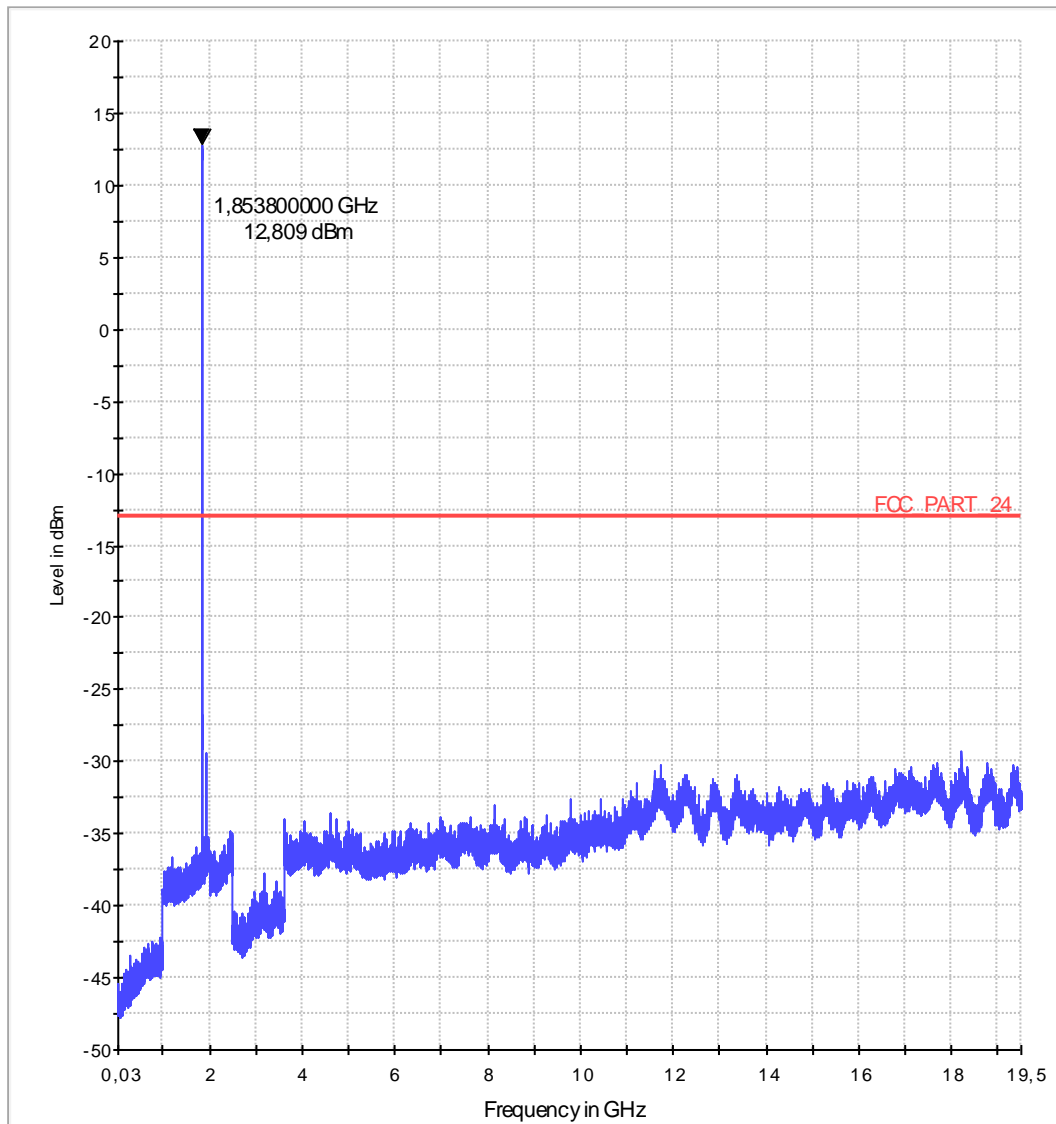
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 24.238; RSS-133
Op. Mode:	FDDII TX Voice
UE Channel:	low channel 9262

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2





### Diagram No.: 4.26

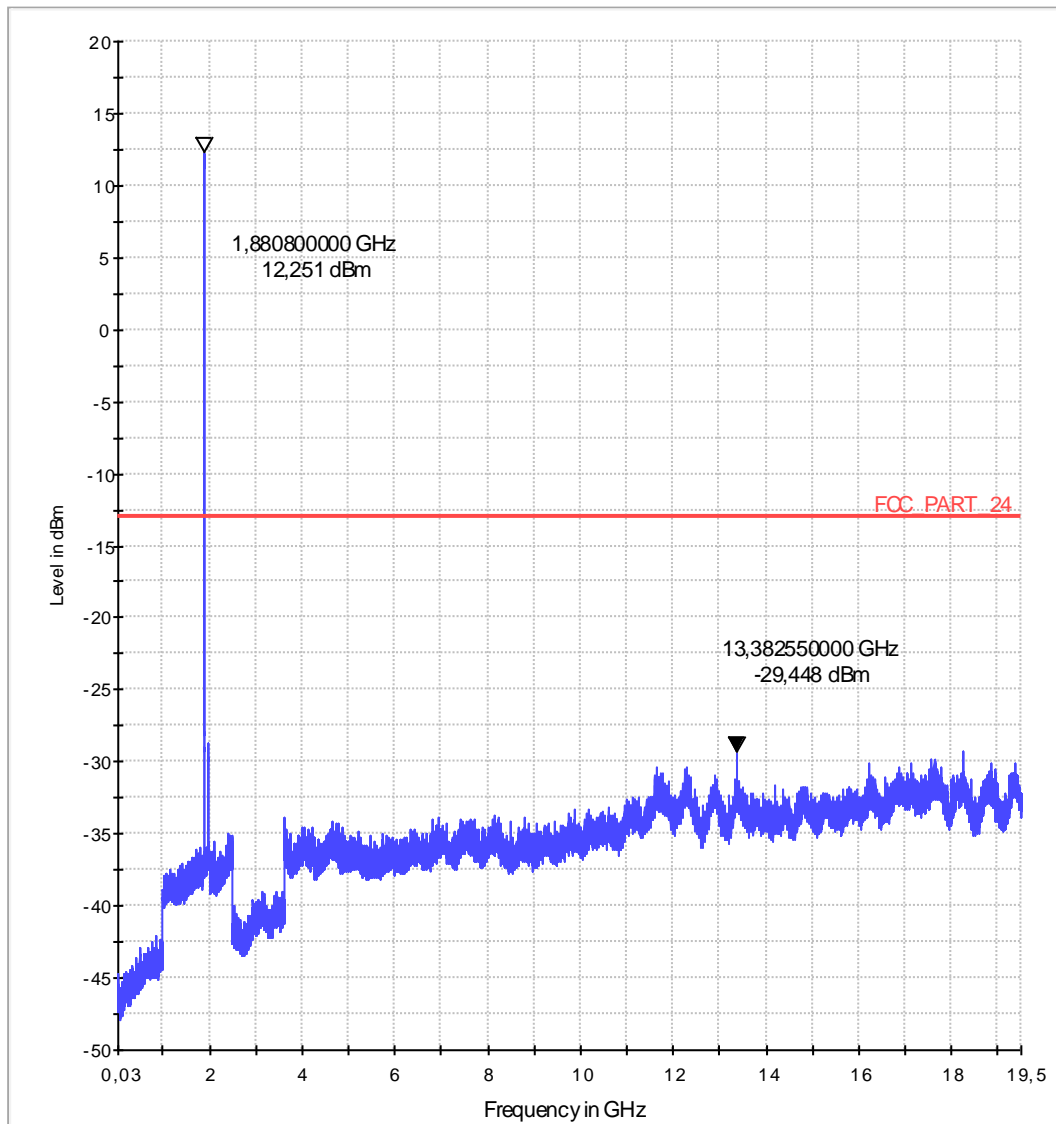
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 24.238; RSS-133
Op. Mode:	FDDII TX Voice
UE Channel:	middle channel 9400

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage	3.8V DC
S/N :	CER_41251_00109_01_11

Sweep\_2



### Diagram No.: 4.27

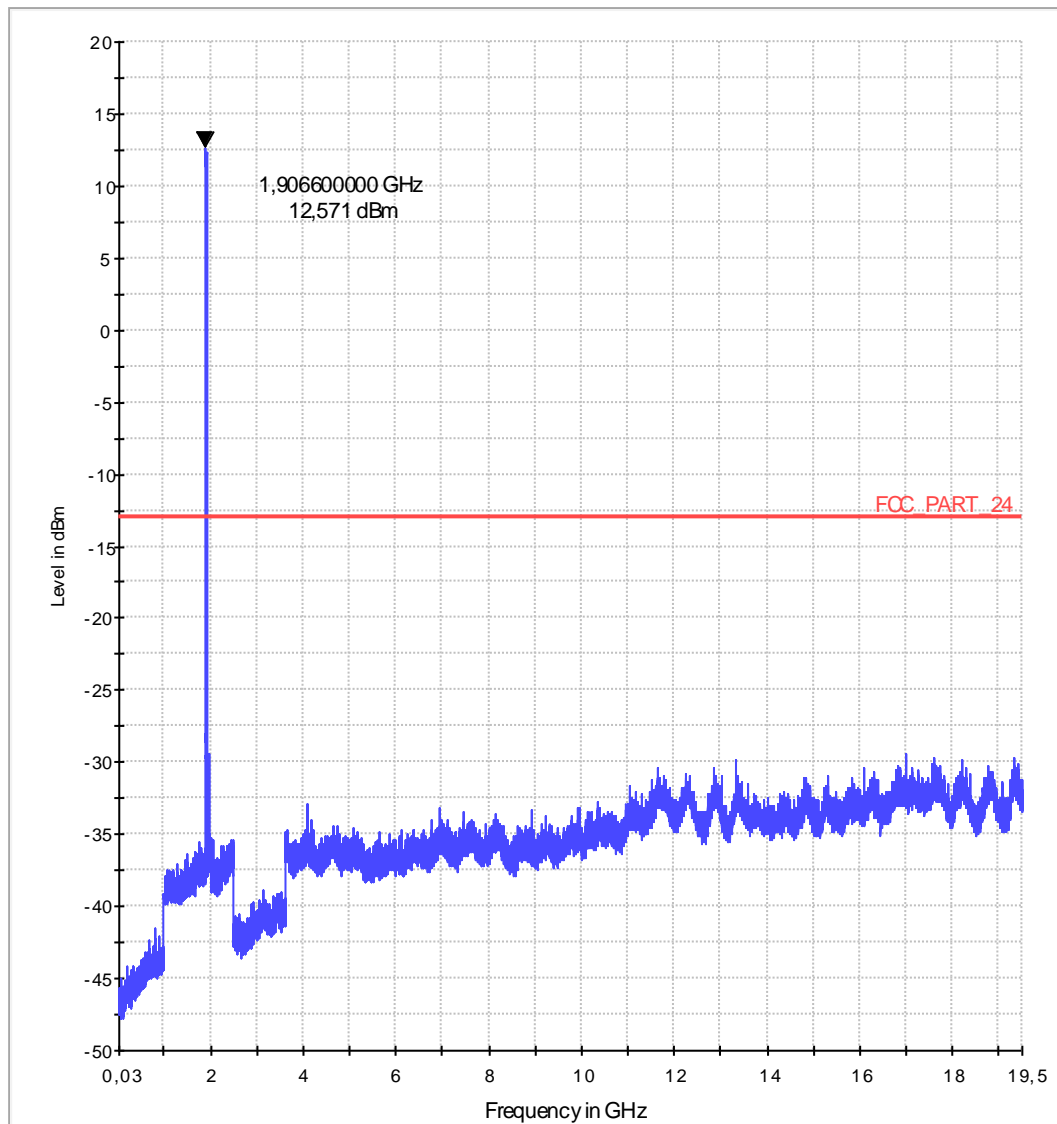
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 24.238; RSS-133
Op. Mode:	FDDII TX Voice
UE Channel:	high channel 9538

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



**1.4.2. Spurious emissions – HSUPA mode**

**b\_TX\_FDD2\_HSUPA\_sweep1\_low**

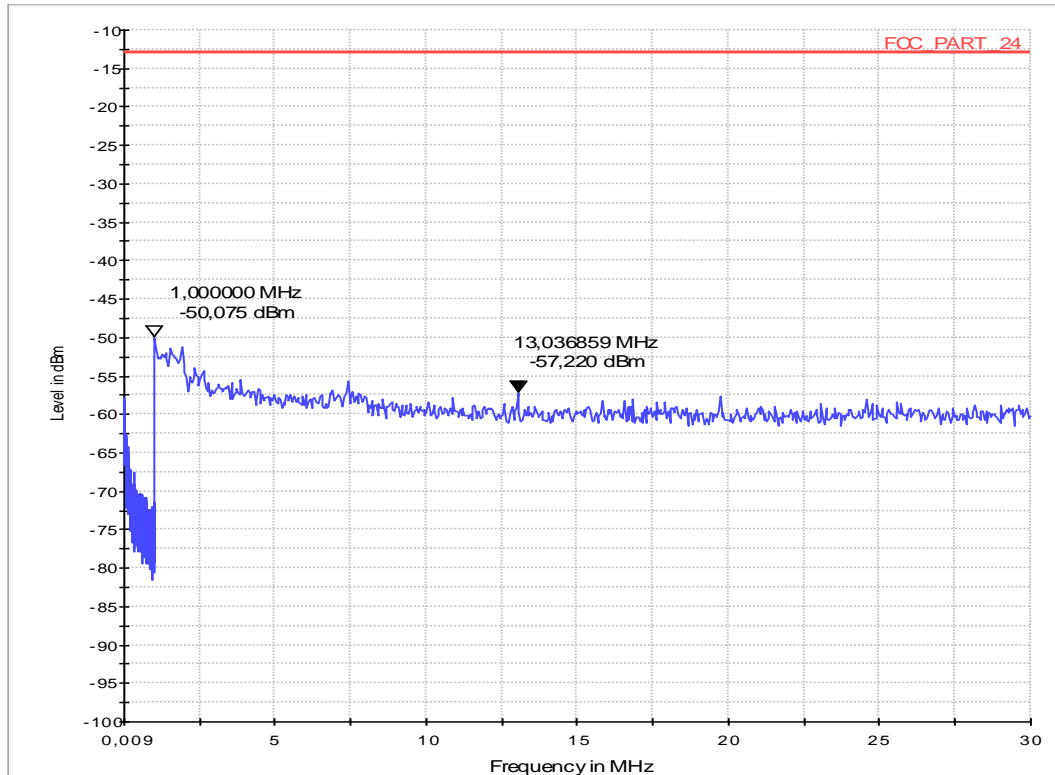
**Common Information**

Test Description: Radiated emission related to 1m  
 Test Site: FAR  
 Test Standard: FCC FCC Part 24.238 Broadband PCS  
 Antenna polarisation: vertical / horizontal  
 Operation mode: TX, UARFCN 9262 low  
 Operator Name: HLa

**EUT Information**

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC

Sweep\_1



**Sweep Setup: Sweep\_1 [EMI radiated]**

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

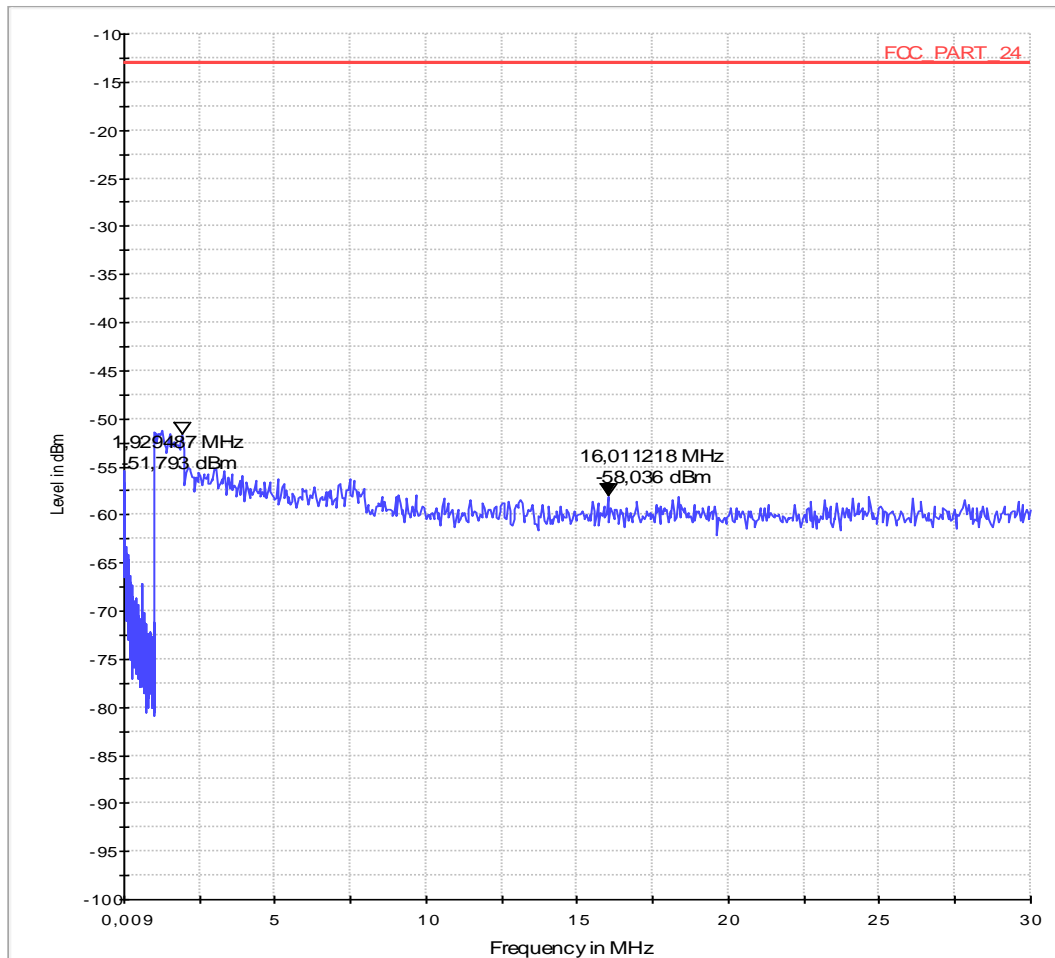
### Diagram No.:b\_14.13

#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC 24.238; RSS 133  
 Condition: 23°C 47%

EUT: REA71UW Rev2, CER-41251-001- 09-01-11  
 Operation mode: TX, UARFCN 9400 middle  
 Comment: Vnom: 3,8V  
 Operator Name: HLa

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### b\_TX\_FDD2\_HSUPA\_sweep\_1\_channel\_High

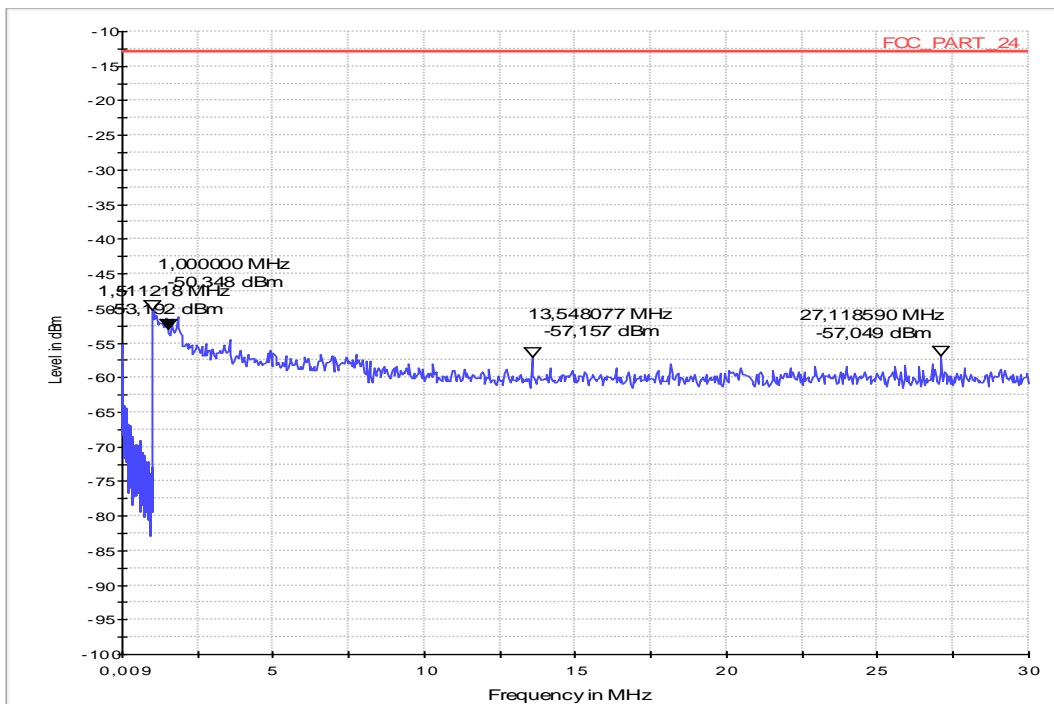
#### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC Part 24.238, RSS-133  
  
 Operation mode: TX, UARFCN 9538 high  
 Operator Name: HLA  
 Comment: Vnom: 3,8V

#### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

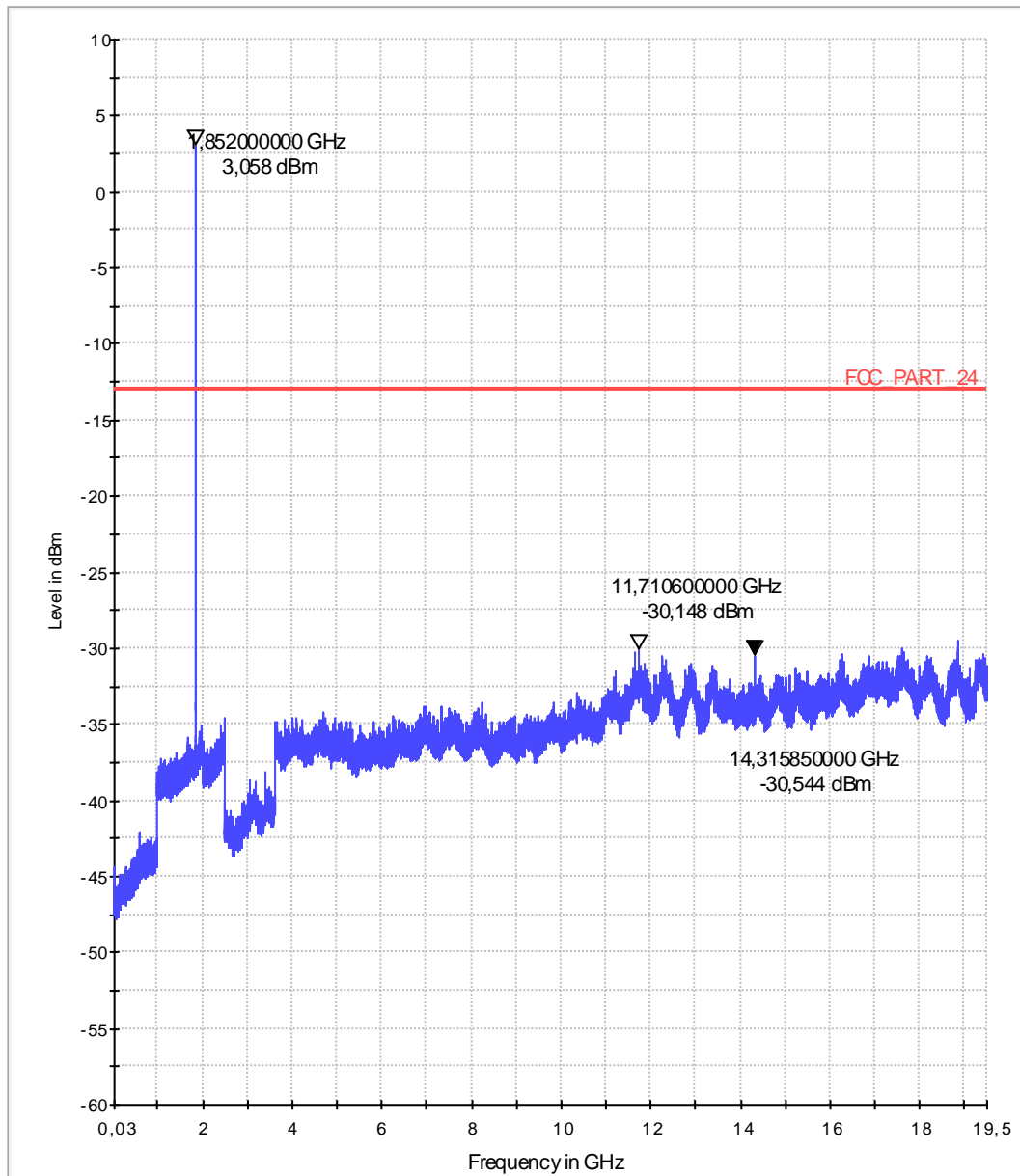
Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: b\_5.01

#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio laboratory
Test Standard:	FCC 24.238 , RSS 133
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mod:	TX, UARFCN 9262 low
comment:	HSUPA, Vnom: 3,8V

Sweep\_2

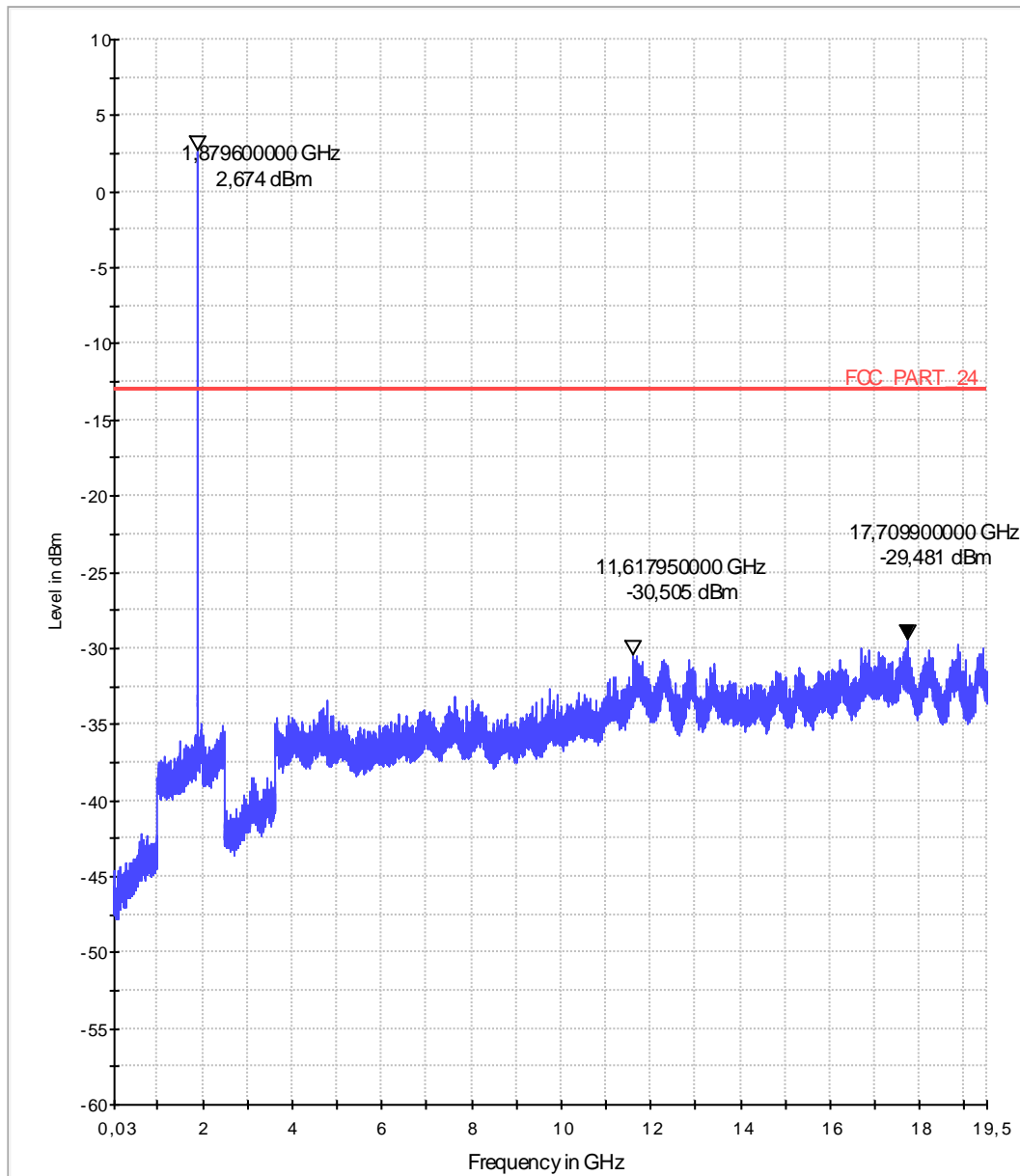


### Diagram No.: b\_5.02

#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC 24.238 , RSS 133
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mod:	TX, UARFCN 9400 Middle
Comment:	HSUPA, Vnom: 3,8V

Sweep\_2

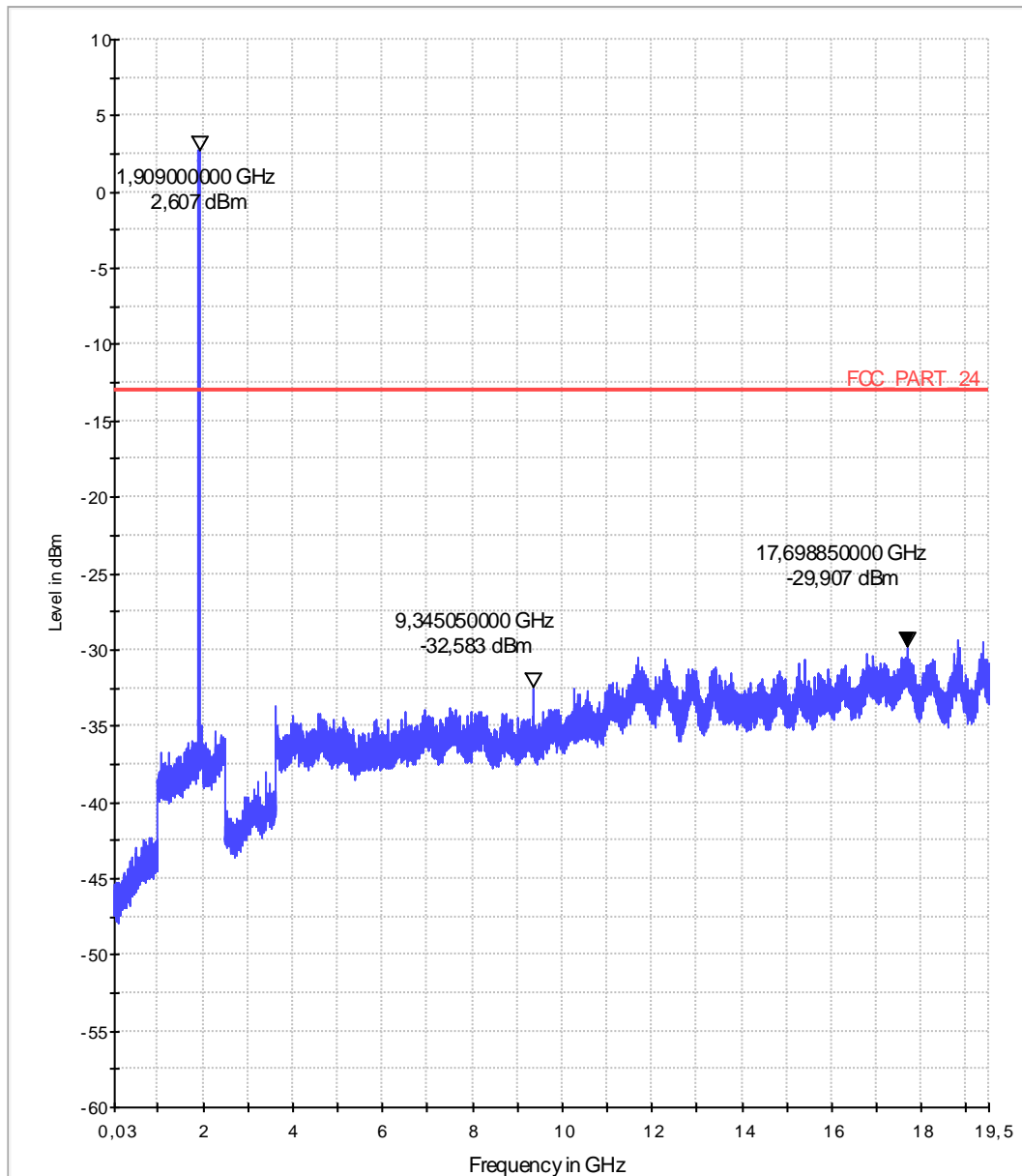


### Diagram No.: b\_14.14

#### Common Information

Test Description:	TX Spurious Conducted Emissions
Test Site:	Radio Laboratory
Test Standard:	FCC 24.238 , RSS 133
Environment Conditions:	23°C 47%
Operator Name:	HLa
EUT:	REA71UW Rev2, CER-41251-001- 09-01-11
op mod:	TX, UARFCN 9538 High
Comment:	HSUPA, Vnom: 3,8V

Sweep\_2





### 1.4.3. Band-Edge compliance conducted - voice

#### Diagram No.: 4.29

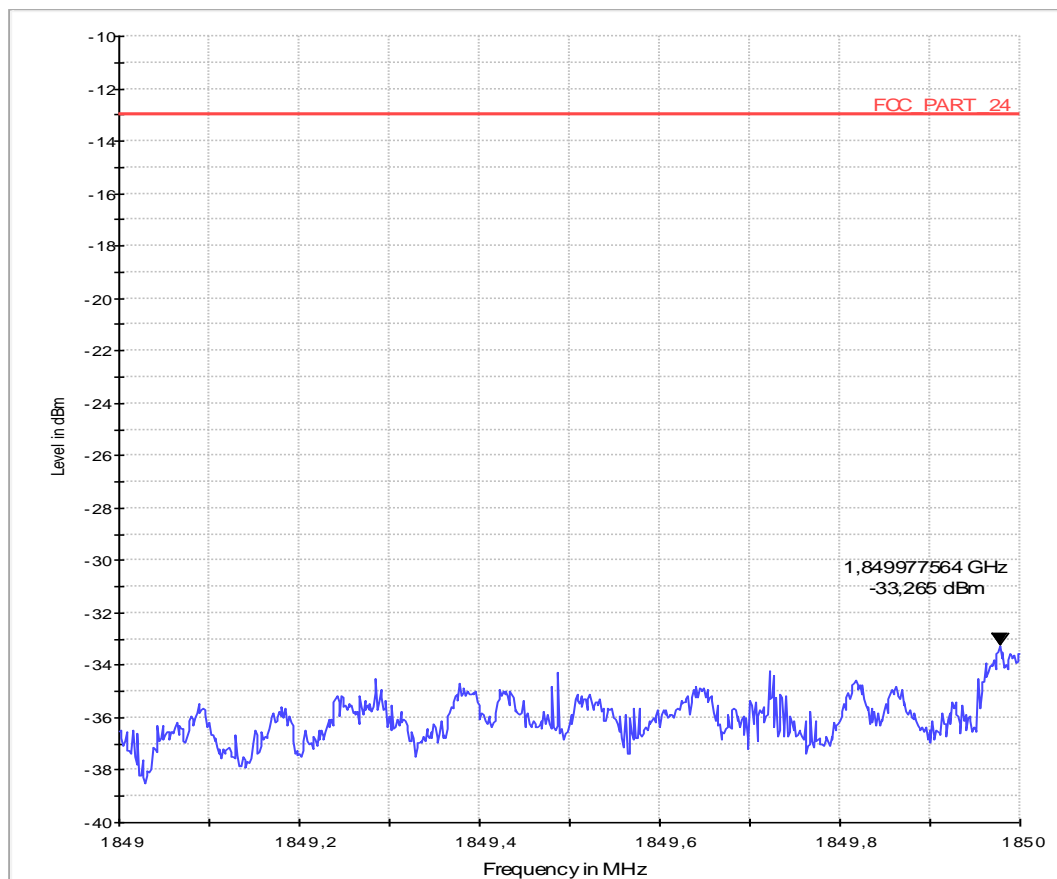
##### Common Information

Test Description:	Band Edge Conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 24.238; RSS- 133
Environment Conditions:	23°C 47%
Operator Name:	dpa

##### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11
Op.Mod:	TX UMTS II, Ch 9262 (Low)

Sweep\_3a\_Band\_Edge\_Channel\_9262\_PK



### Diagram No.:4.30

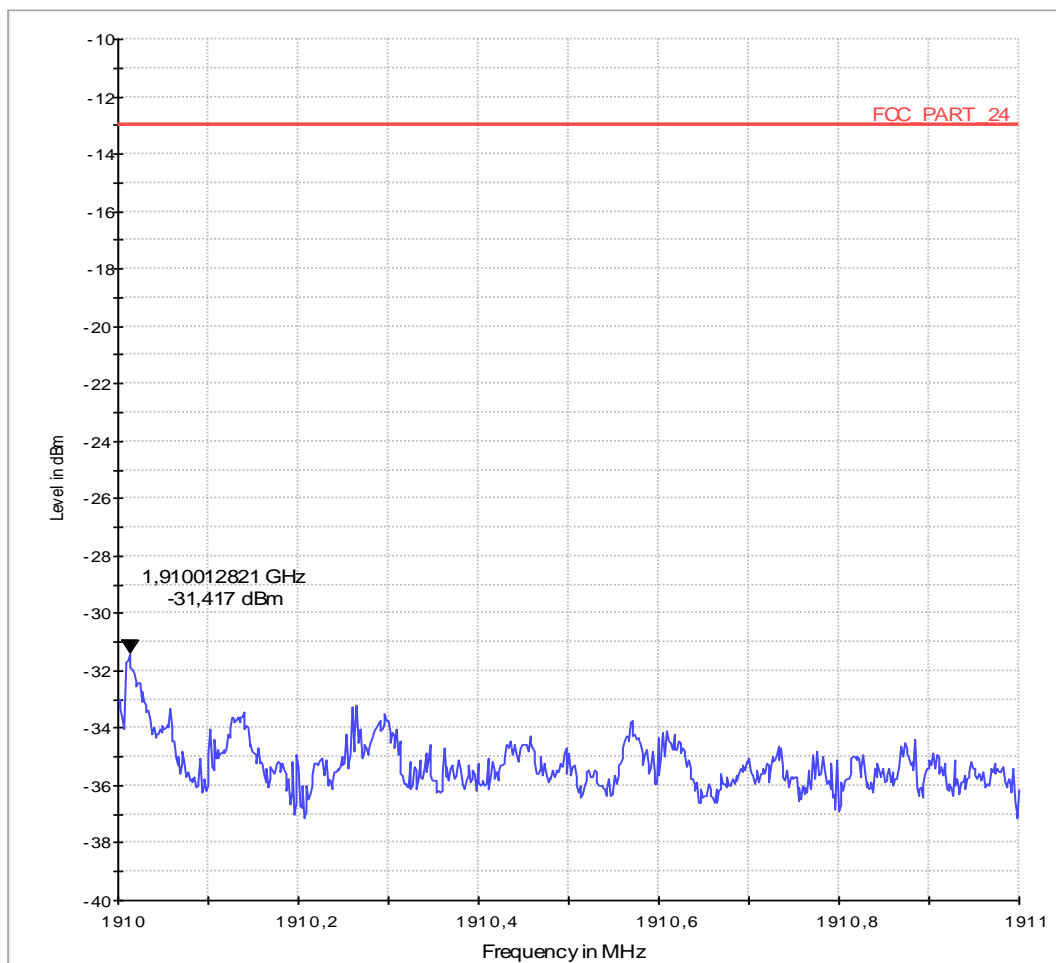
#### Common Information

Test Description:	Band Edge Conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 24.238; RSS-133
Environment Conditions:	23°C 47%
Operator Name:	dpa

#### EUT Information

EUT:	REA71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11
Op.Mod:	TX UMTS II, Ch 9538(High)

Sweep\_3a\_Band\_Edge\_Channel\_9538\_PK



**1.4.4. Band-Edge compliance conducted – HSUPA Mode**

**Diagram No.: 4.45**

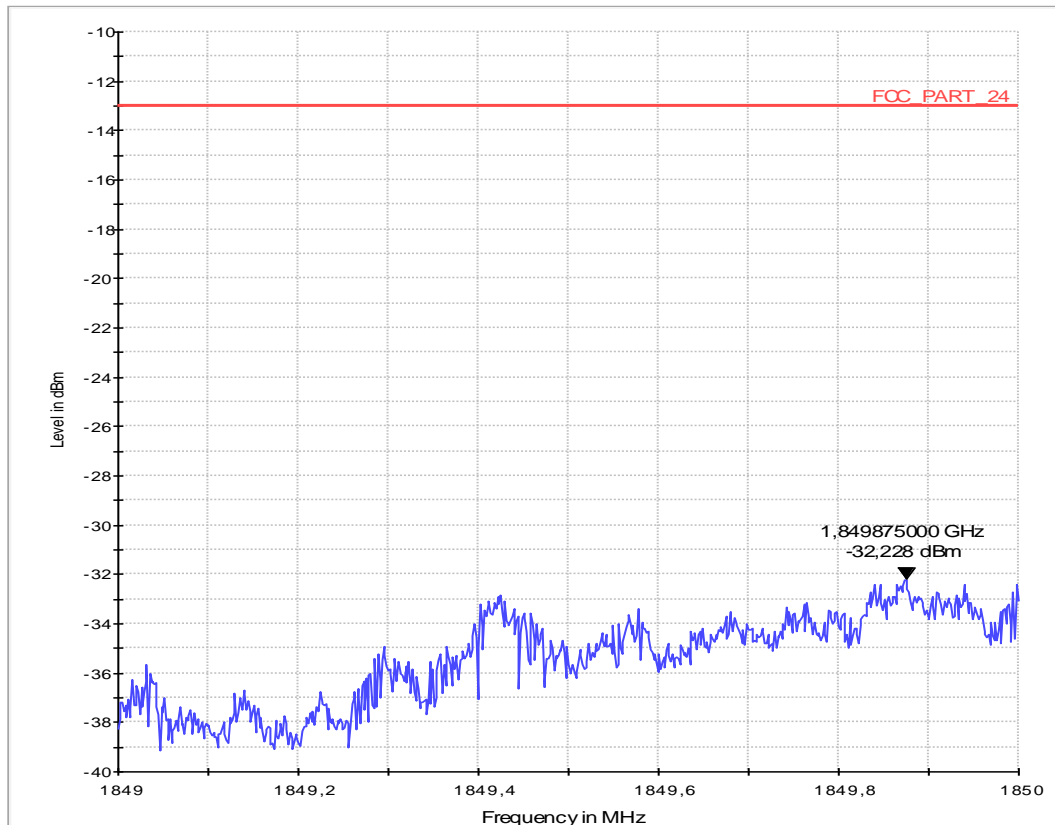
**Common Information**

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 24.238; RSS-133  
 Op. Mode: FDDII TX HSUPA, Ch 9262  
 Environment Conditions: 23°C 47%  
 Operator: dpa

**EUT Information**

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_9262\_PK



**Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_9262\_PK [EMI radiated]**

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1.849 GHz - 1,85 GHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

### Diagram No.: 4.46

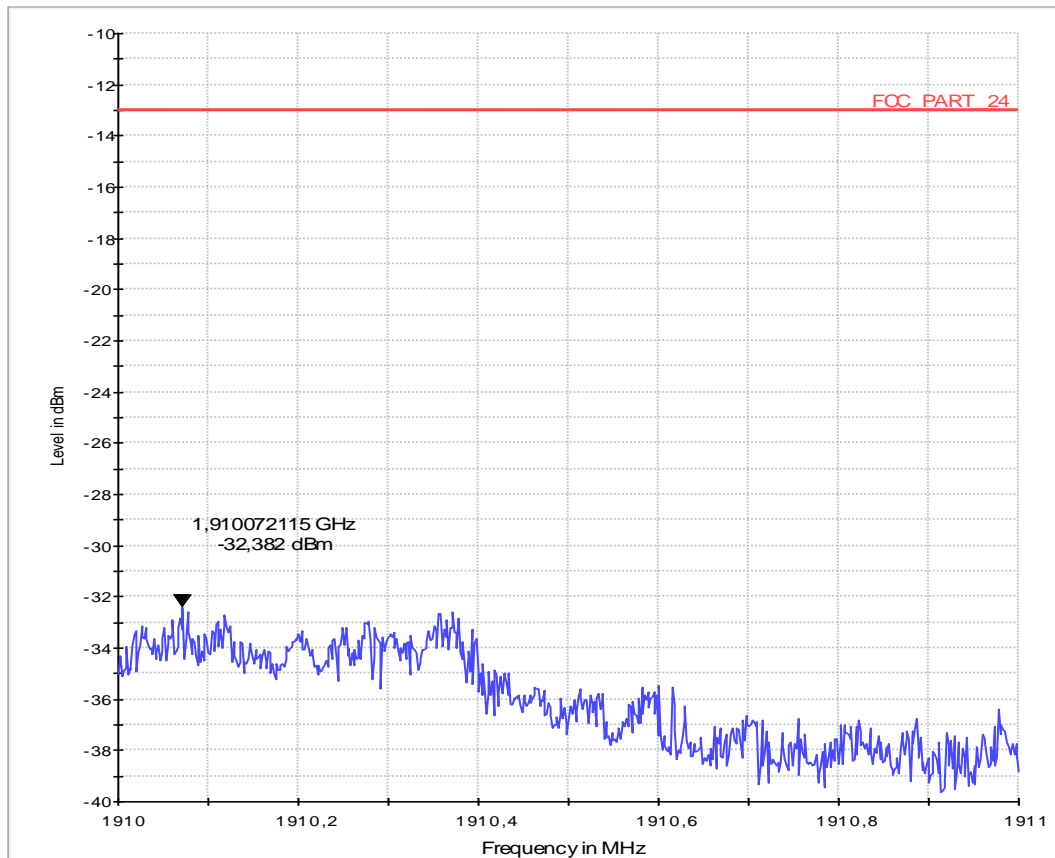
#### Common Information

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 24.238; RSS-133  
 Op. Mode: FDDII TX HSUPA, Ch 9538  
 Environment Conditions: 23°C 47%  
 Operator: dpa

#### EUT Information

EUT: REA71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_9538\_PK



#### Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_9538\_PK [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1.91 GHz - 1,911 GHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

## 1.5. Spurious emissions conducted – FDD BAND IV

### 1.5.1. Spurious emissions voice mode

#### b\_TX\_FDD4\_Voice\_sweep1\_channel\_low

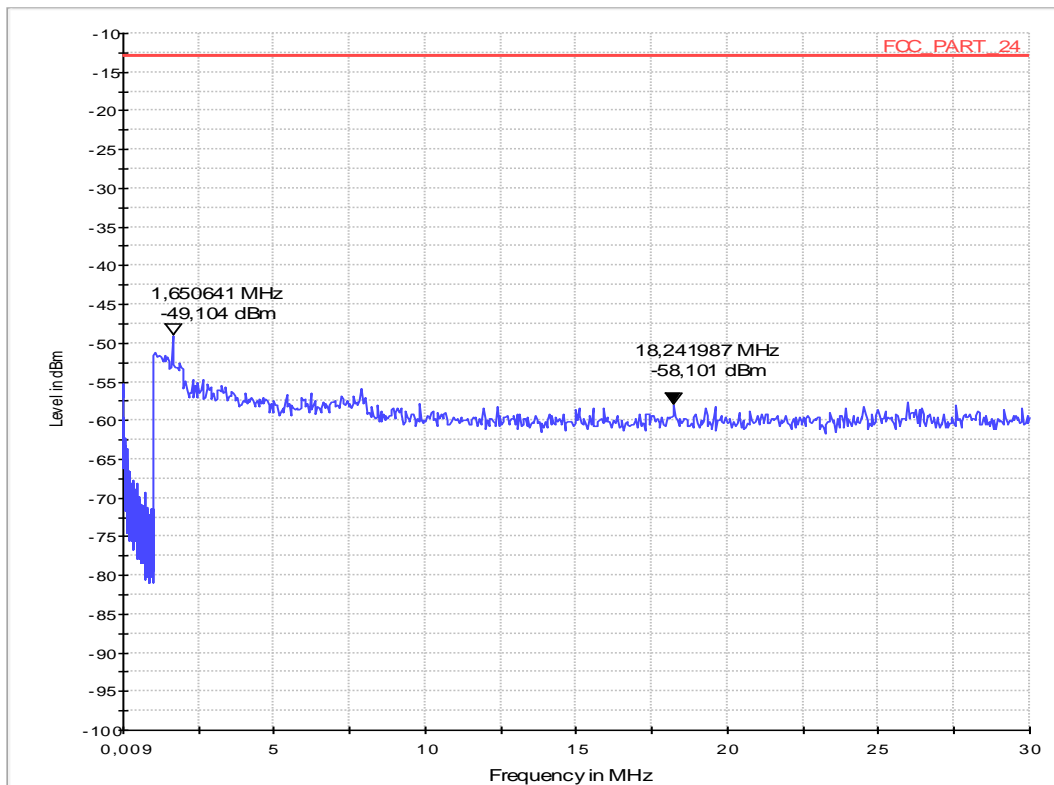
##### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC Part 2.202, RSS-139  
 Operation mode: TX, UARFCN low  
 Operator Name: HLA  
 Comment: Vnom: 3,8V

##### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC

Sweep\_1



### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.34 – Middle channel

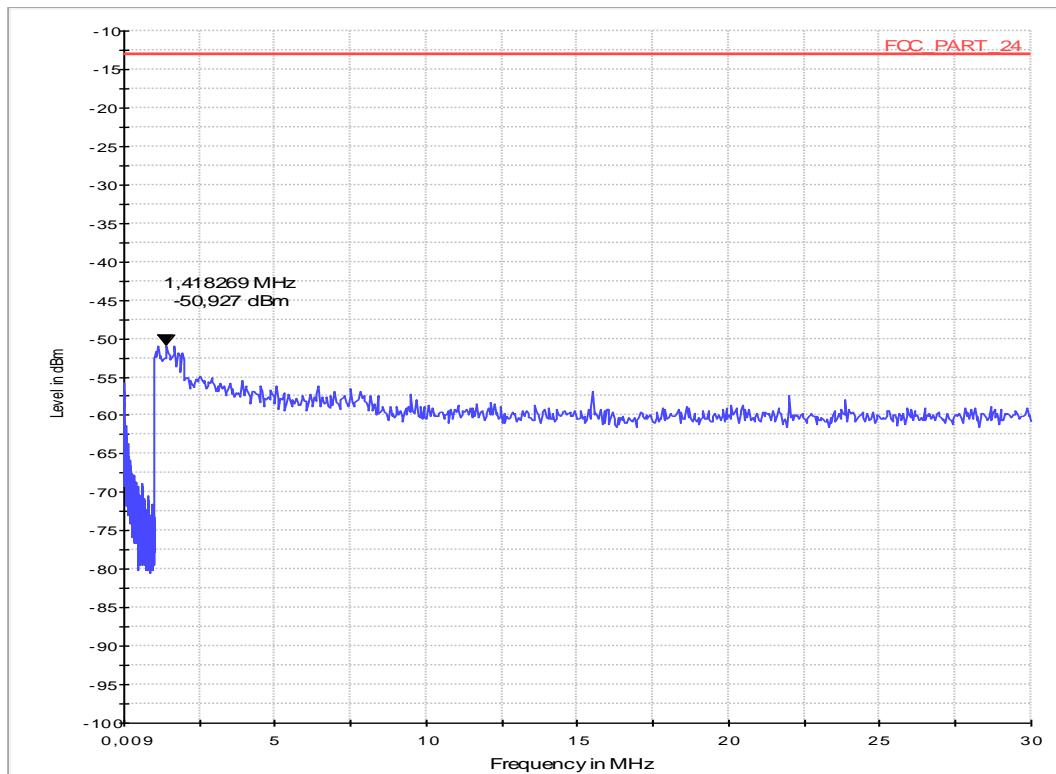
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 27. RSS-132  
 Op. Mode: FDDIV TX Voice  
 UE Channel: middle channel 1413

#### EUT Information

EUT: REB71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

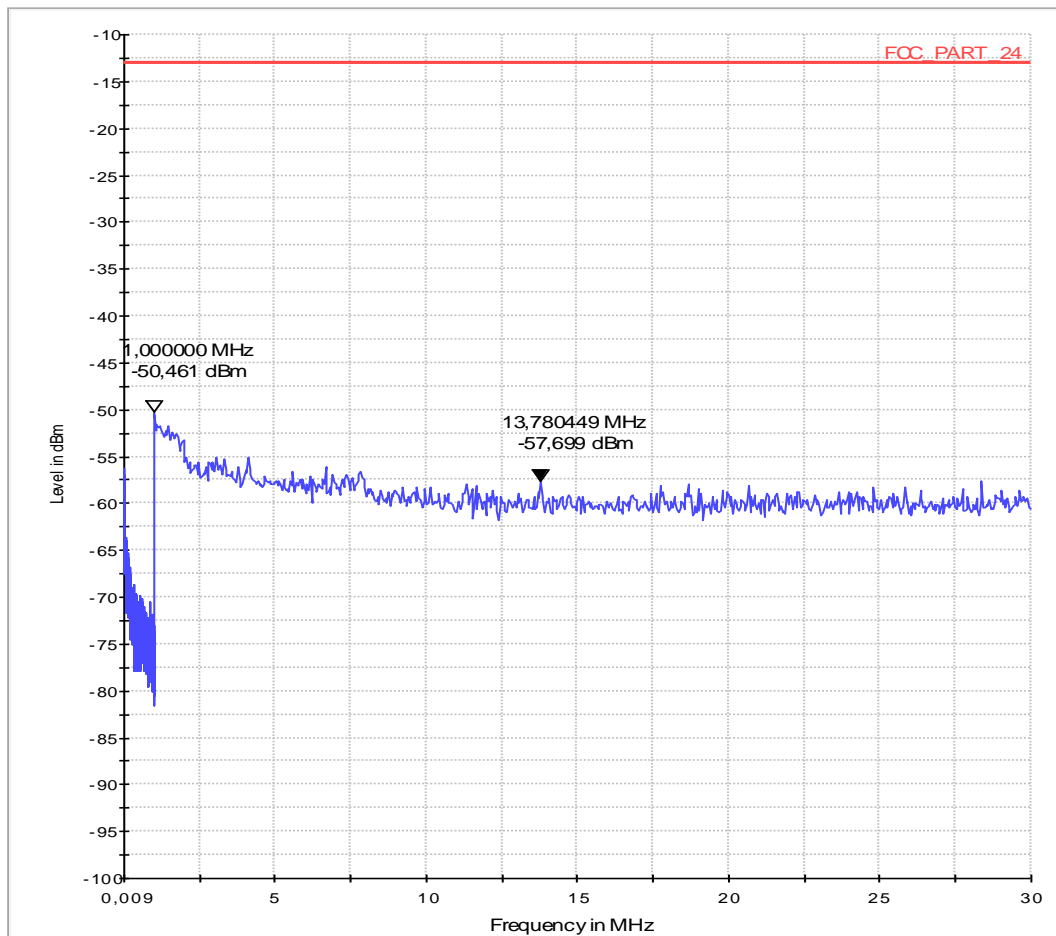
Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### b\_TX\_FDD4\_Voice\_sweep1\_h

#### Common Information

Test Description:	TX Spurious Emission conducted
Test Site:	Radio laboratory
Test Standard:	FCC Part 27, RSS-139
EUT:	REA71UW, rev. 2 (CER-41251-001 09-01-11)
Manufacturer:	RIM
Operation mode:	TX, UARFCN 1513_high
Operator Name:	Tas
Comment:	Vnom: 3,8V

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup:	31_ESU_Conducted_FCC_Part_15_22_24
Receiver:	[ESU 40]
Level Unit:	dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.31

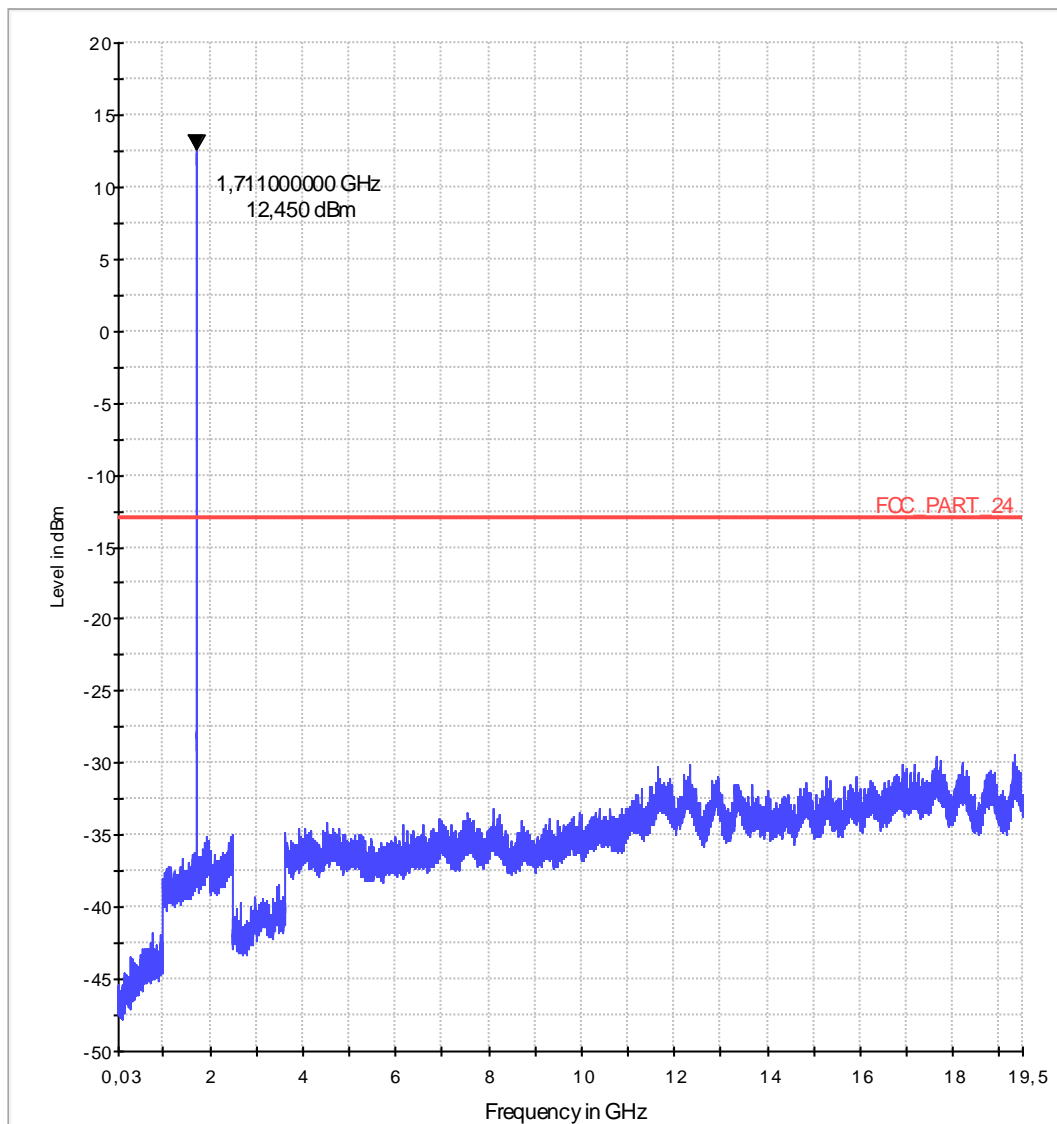
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 27 RSS-139
Op. Mode:	FDDIV TX Voice
UE Channel:	low channel 1312

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2





### Diagram No.: 4.32

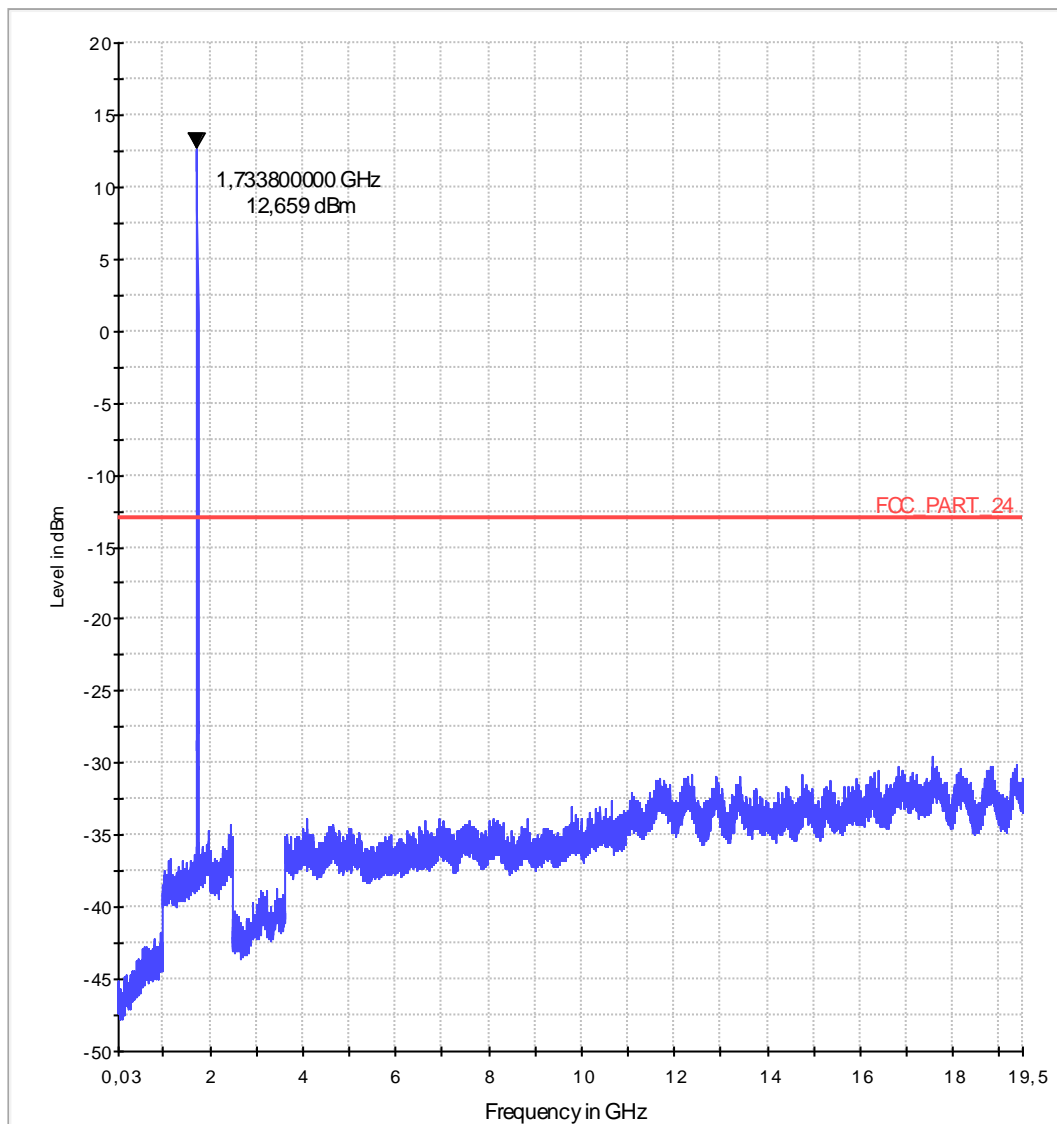
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 27 RSS-139
Op. Mode:	FDDIV TX Voice
UE Channel:	middle channel 1413

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



### Diagram No.: 4.33

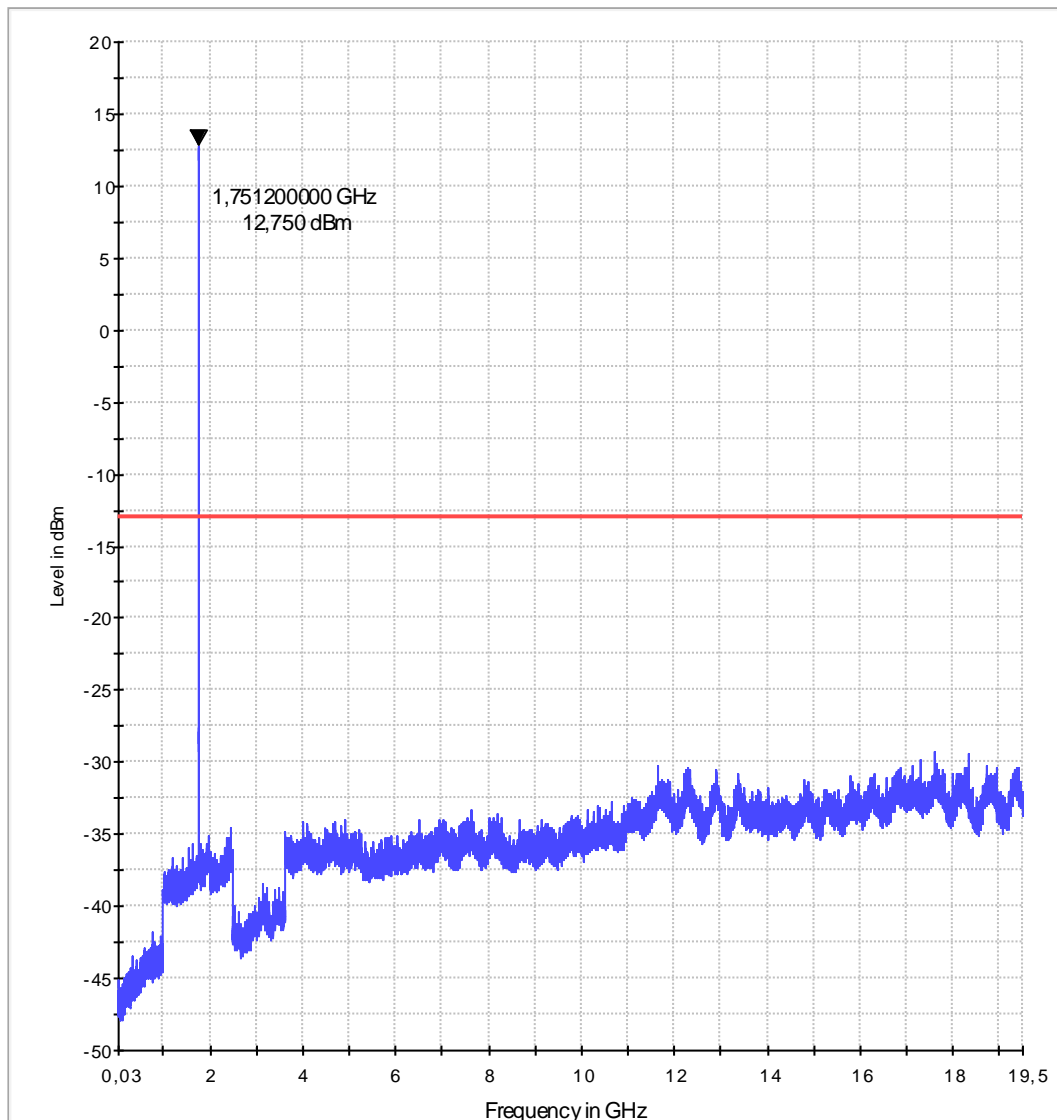
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 27:RSS-139
Op. Mode:	FDDIV TX Voice
UE Channel:	high channel 1513(High)

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



### 1.5.2. Spurious emissions HSUPA mode

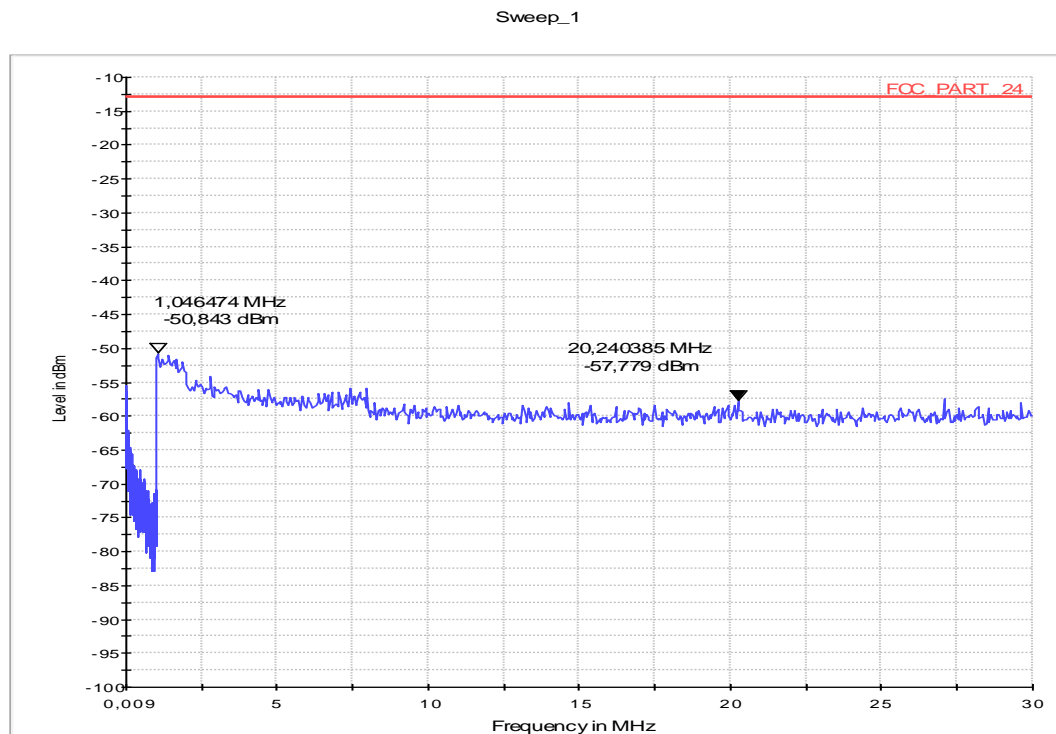
#### b\_TX\_FDD4\_HSUPA\_sweep1\_channel\_low

##### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC Part 27, RSS-139  
  
 Operation mode: TX, UARFCN 1312 low  
 Operator Name: HLA  
 Comment: Vnom: 3,8V

##### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.40

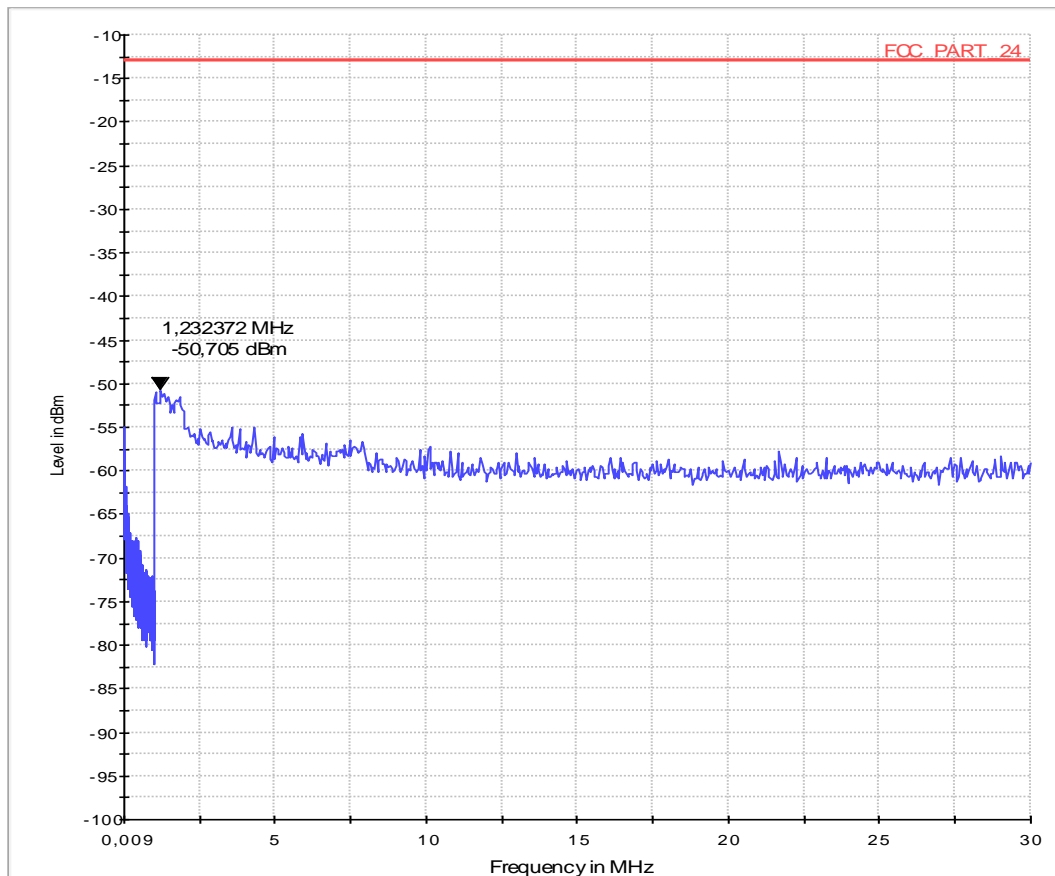
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC 27; RSS-139  
 Op. Mode: FDDIV TX HSUPA  
 middle channel 1413  
 Operator: dpa

#### EUT Information

EUT: REB71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### b\_TX\_FDD4\_HSUPA\_sweep1\_channel\_High

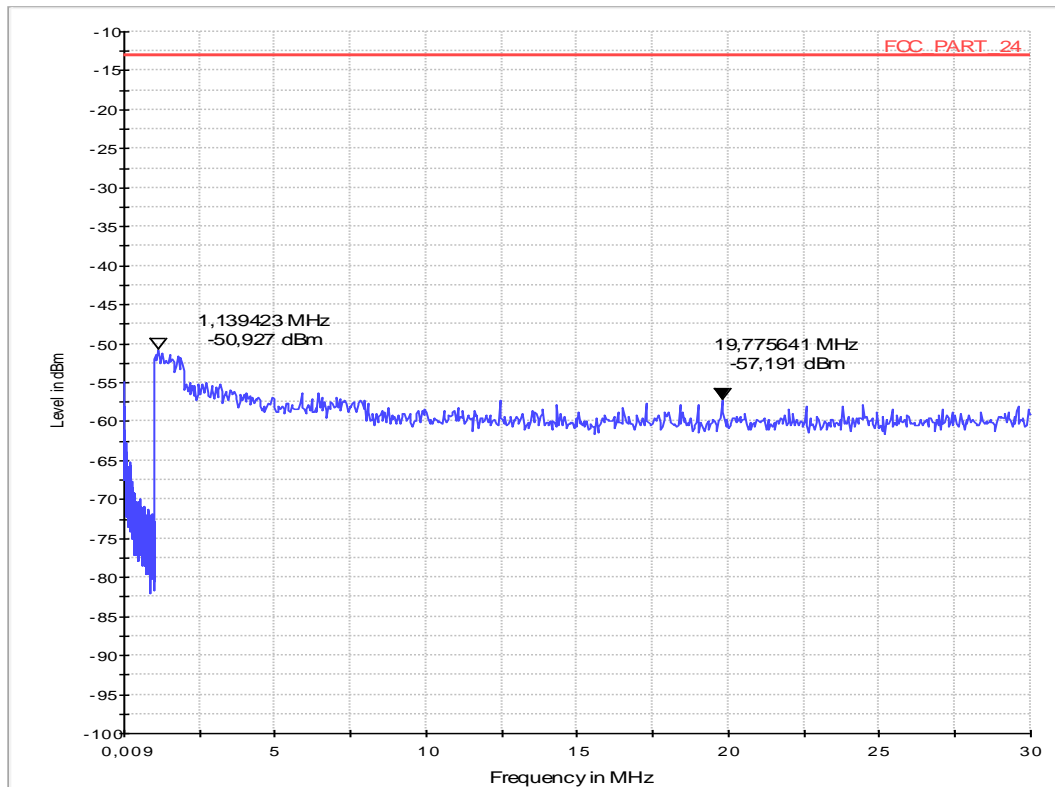
#### Common Information

Test Description: TX Spurious Emission conducted  
 Test Site: Radio laboratory  
 Test Standard: FCC Part 27, RSS-139  
 Operation mode: TX, UARFCN 1513 High  
 Operator Name: HLa  
 Comment: 3.8VDC

#### EUT Information

EUT: REB71UW Rev2  
 S/N: CER\_41251\_00109\_01\_11  
 Manufacturer: RIM  
 Voltage: 3.8V DC

Sweep\_1



#### Sweep Setup: Sweep\_1 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 1 MHz	792,8 Hz	PK+	1 kHz	10 s	0 dB
1 MHz - 30 MHz	46,474 kHz	PK+	100 kHz	5 s	0 dB

### Diagram No.: 4.37

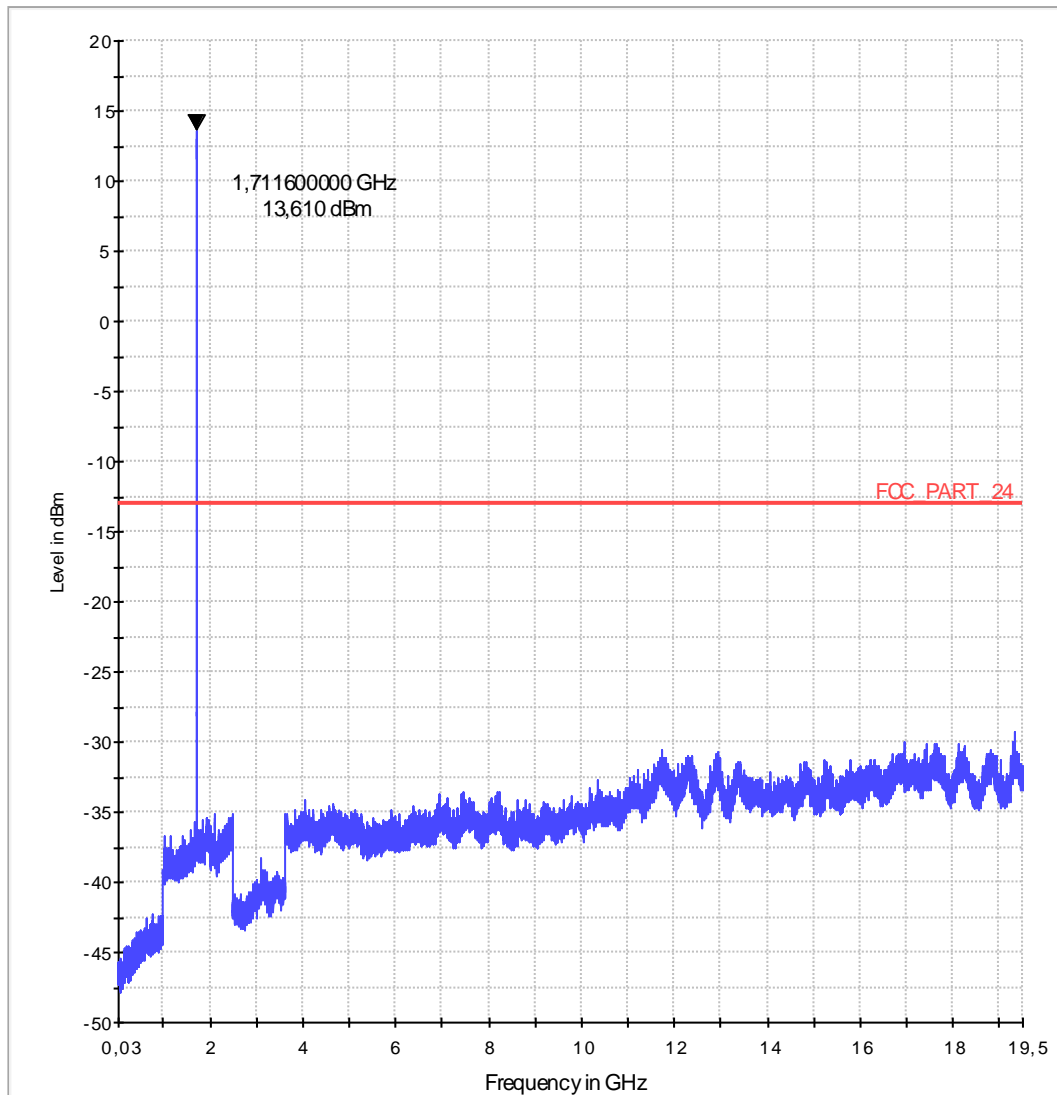
#### Common Information

Test Description:	TX Spurious Conducted Emission
Test Site:	Radio Laboratory
Test Standard:	FCC Part 22. RSS-132
Op. Mode:	FDDIV TX HSUPA low channel 1312
Operator:	dpa

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



### Diagram No.: 4.38

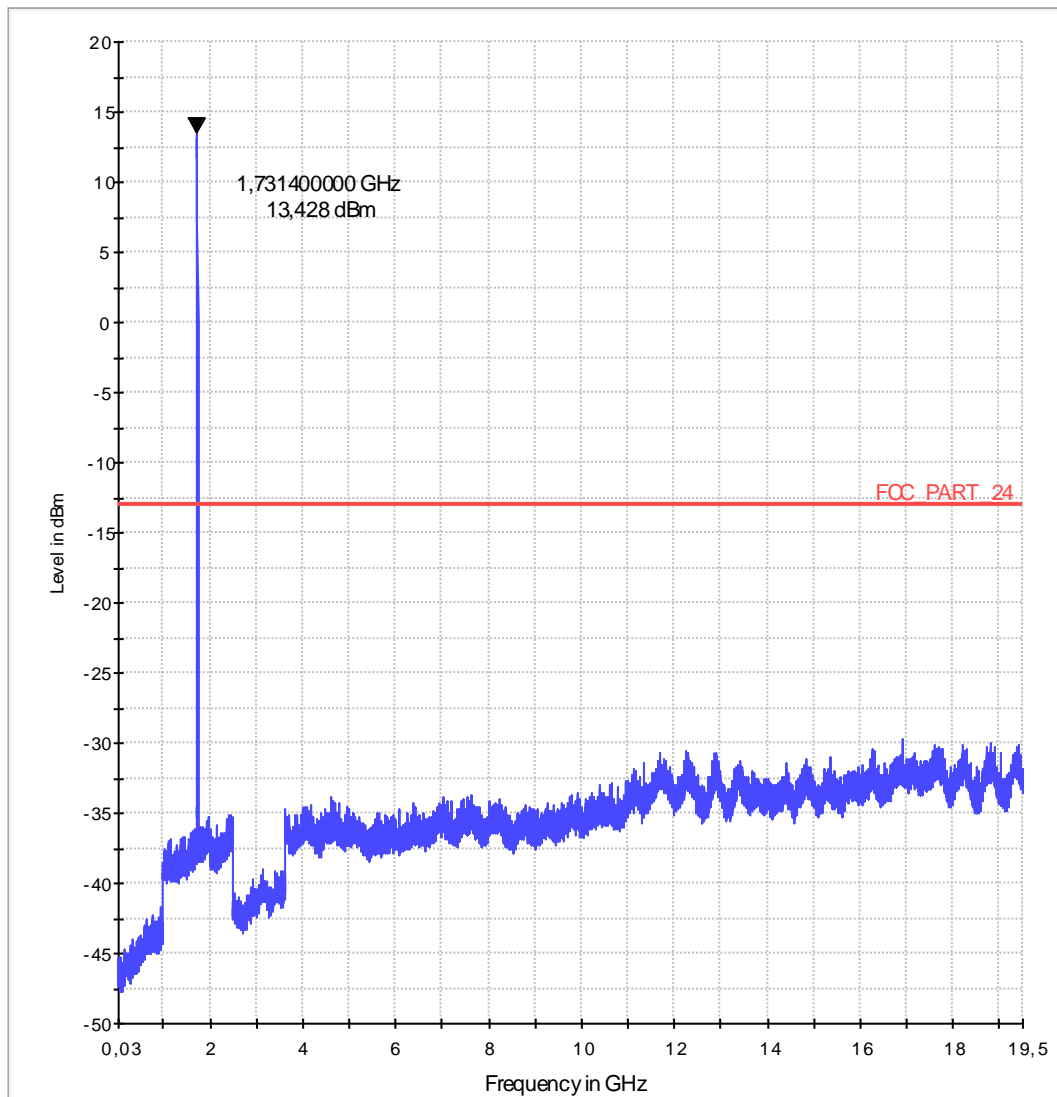
#### Common Information

Test Description:	TX Spurious Conducted Emission conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 22 RSS-132
Op. Mode:	FDDIV TX HSUPA middle channel 1413
Operator:	dpa

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_2



### Diagram No.: 4.39

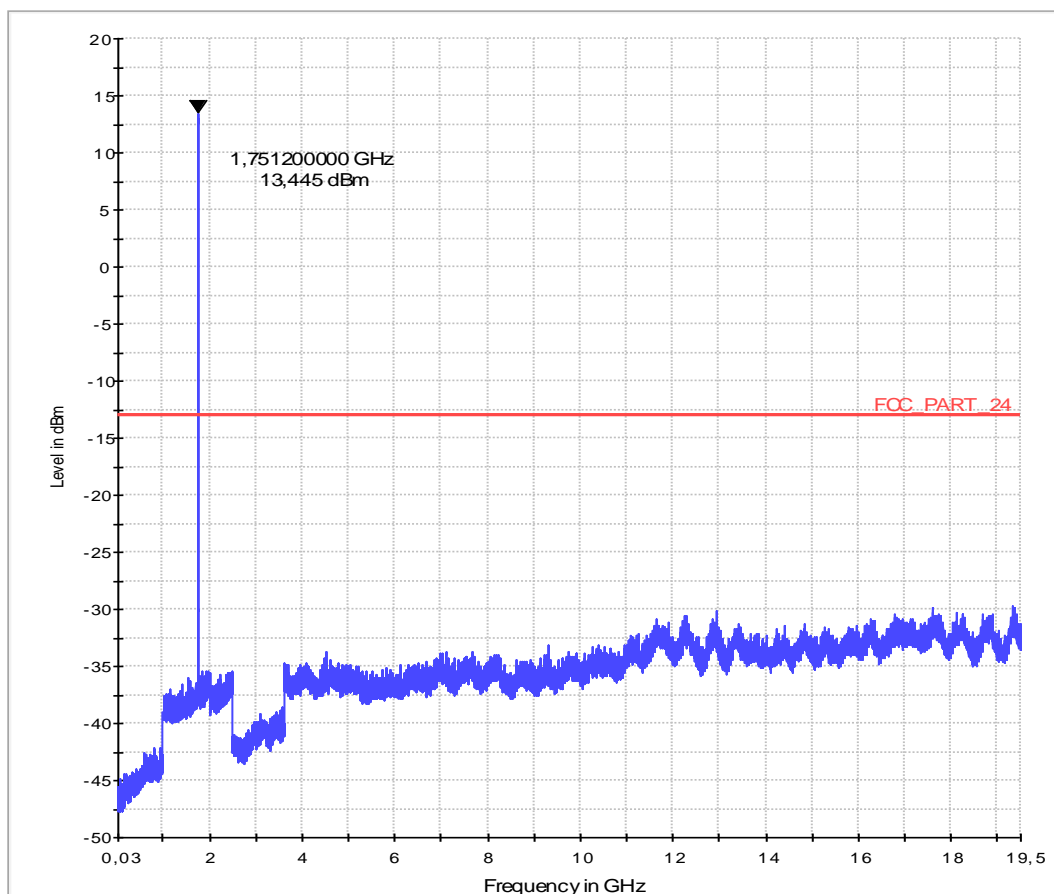
#### Common Information

Test Description: TX Spurious Conducted Emission  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22 RSS-132  
 Op. Mode: FDDIV TX HSUPA  
 high channel 1513  
 Operator: dpa

#### EUT Information

EUT: REB71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_2



#### Sweep Setup: Sweep\_2 [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	388 kHz	PK+	1 MHz	100 s	0 dB
1 GHz - 2,5 GHz	600 kHz	PK+	1 MHz	15 s	0 dB
2.5 GHz - 19,5 GHz	850 kHz	PK+	1 MHz	150 s	0 dB



### 1.5.3. Band-Edge compliance conducted – voice mode

#### Diagram No.: 4.35

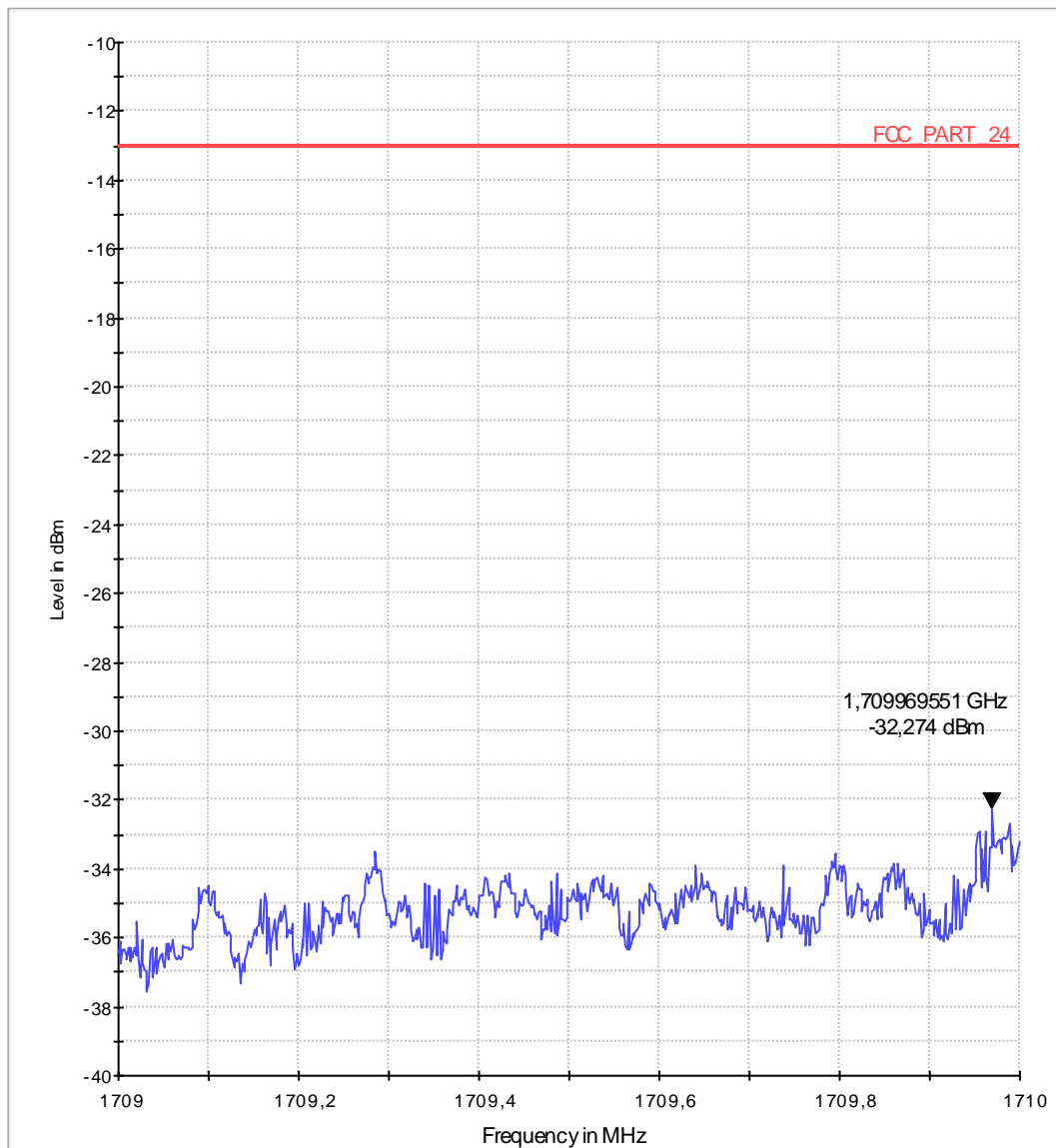
##### Common Information

Test Description:	Band Edge Conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 27, RSS-139
Op. Mode:	FDDIV TX, Ch 1312 (Low)

##### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_3a\_Band\_Edge\_Channel\_1312\_PK



### Diagram No.: 4.36

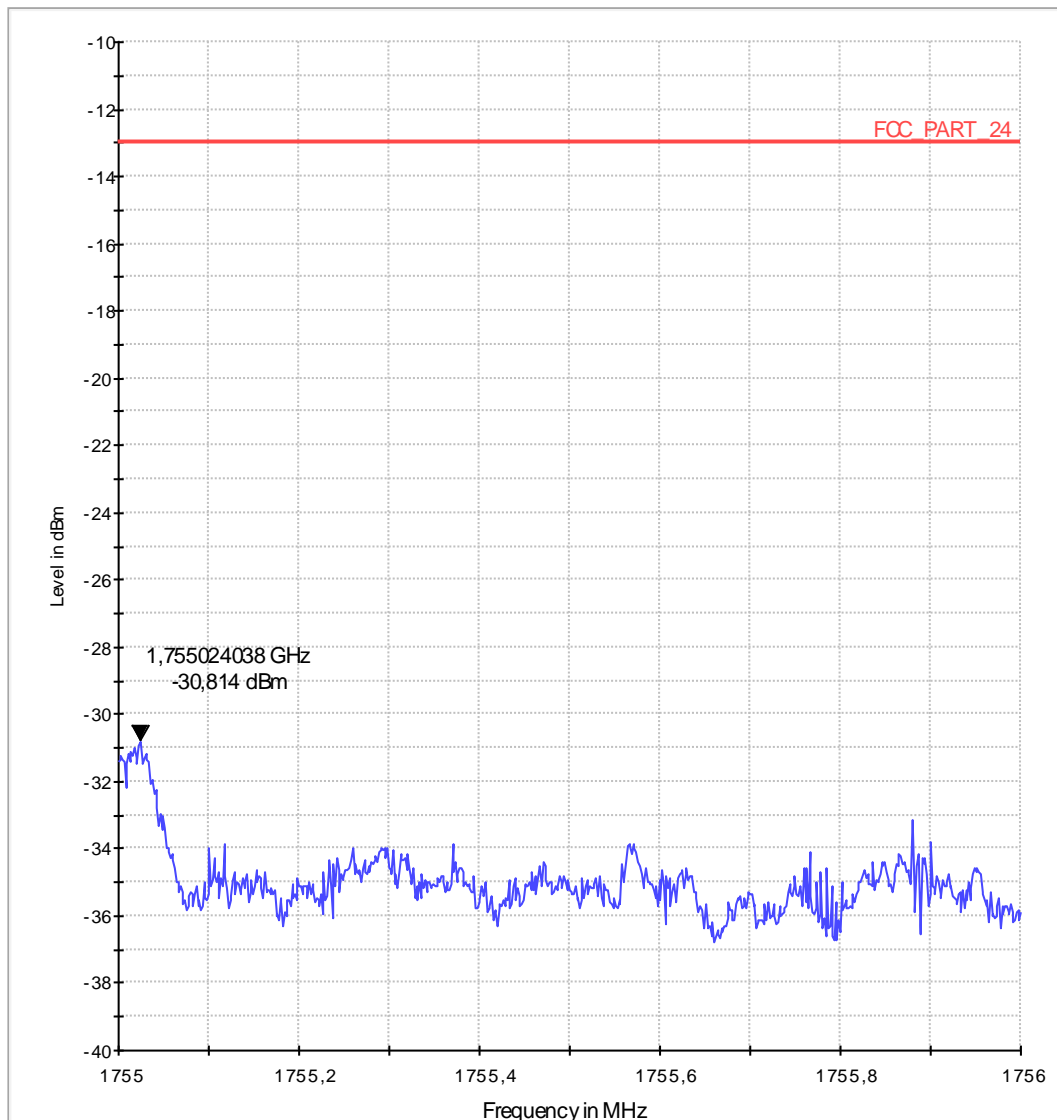
#### Common Information

Test Description:	Band Edge Conducted
Test Site:	Radio Laboratory
Test Standard:	FCC Part 27, RSS-139
Op. Mode:	FDDIV TX Ch 1513 (High)
Environment Conditions:	23°C 47%

#### EUT Information

EUT:	REB71UW Rev2
Manufacturer:	RIM
Voltage:	3.8V DC
S/N:	CER_41251_00109_01_11

Sweep\_3a\_Band\_Edge\_Channel\_1513\_PK



**1.5.4. Band-Edge compliance conducted – HSUPA mode**

**Diagram No.: 4.41**

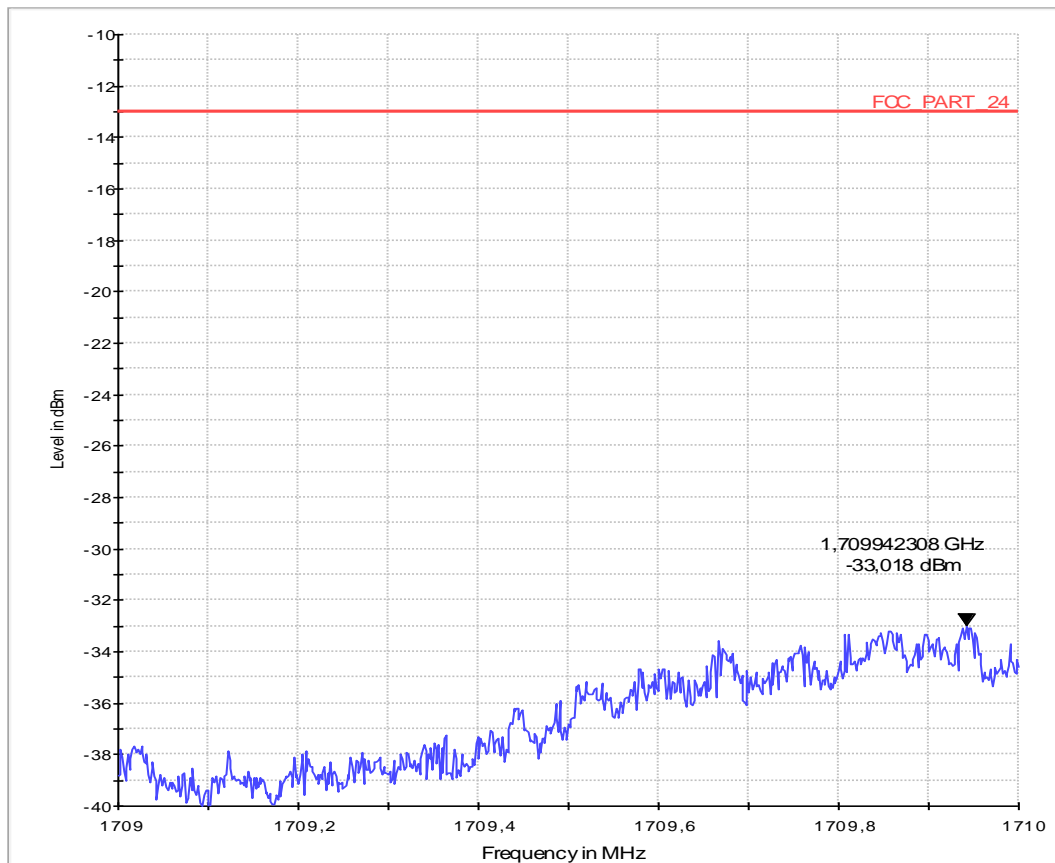
**Common Information**

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22; RSS132  
 Op. Mode: FDDIV TX HSUPA, Ch 1312  
 Environment Conditions: 23°C 47%  
 Operator: dpa

**EUT Information**

EUT: REB71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_1312\_PK



**Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_1312\_PK [EMI radiated]**

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1.709 GHz - 1,71 GHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

### Diagram No.: 4.42

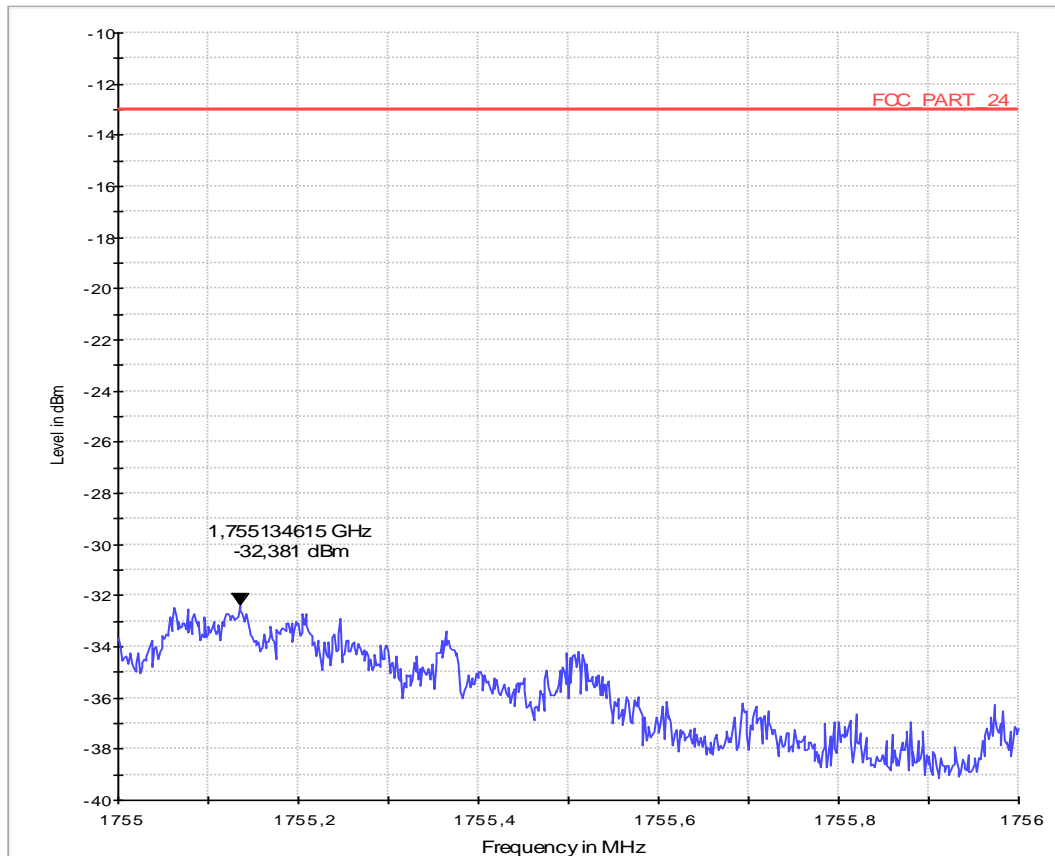
#### Common Information

Test Description: Band Edge Conducted  
 Test Site: Radio Laboratory  
 Test Standard: FCC Part 22.917,RSS-132  
 Op. Mode: FDDIV TX HSUPA Ch 1513  
 Environment Conditions: 23°C 47%  
 Operator: dpa

#### EUT Information

EUT: REB71UW Rev2  
 Manufacturer: RIM  
 Voltage: 3.8V DC  
 S/N: CER\_41251\_00109\_01\_11

Sweep\_3a\_Band\_Edge\_Channel\_1513\_PK



#### Sweep Setup: Sweep\_3a\_Band\_Edge\_Channel\_1513\_PK [EMI radiated]

Hardware Setup: 31\_ESU\_Conducted\_FCC\_Part\_15\_22\_24  
 Receiver: [ESU 40]  
 Level Unit: dBm

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1.755 GHz - 1,756 GHz	1,603 kHz	PK+	30 kHz	30 s	0 dB

## 1.6. Spurious emissions radiated – FDD Band II

### 1.6.1. Spurious emissions voice mode

8.01\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9262\_Rev2

#### Common Information

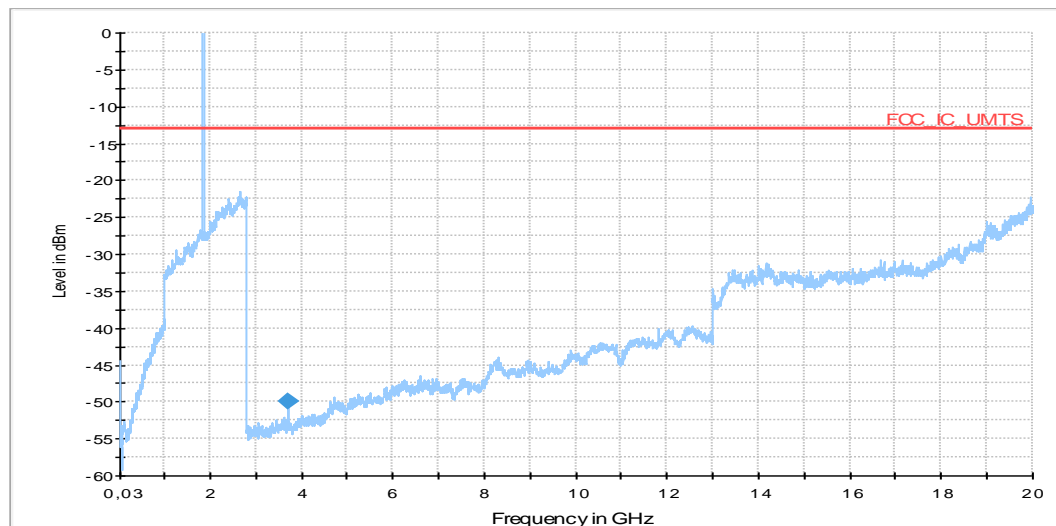
Test Description: Radiated Spurious Emissions UMTS FDDII  
 Test Site Location: CETECOM GmbH, Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24.238  
 Operating Mode: MS allocated UL channel 9262  
 Operating Conditions: Humidity: 60%; Temperature: 19°  
 Operator Name: dpa

#### EUT Information

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

-----  
 EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS3 (HDW-24529-001) AAC  
 Power Supply: Real battery, fully charged before test  
 Comments:

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G



#### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
1853.597195	24.9	10000.0	1000.000	155.0	V	108.0	90.0	-62.6	
3702.855711	-49.9	10000.0	1000.000	155.0	H	142.0	0.0	-94.9	

## 8.02\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9400\_Rev2

**Common Information**

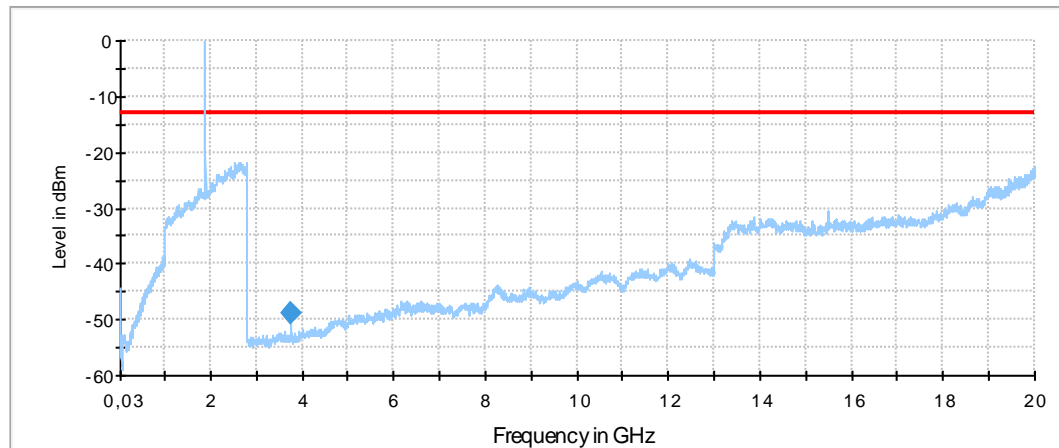
Test Description: Radiated Emissions UMTS FDDII  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24  
 Test Case: -  
 Operating Mode: UE allocated UL channel 9400  
 Environmental Conditions: Humidity: 73%rH; Temperature: 19°C  
 Operator: Jess

**EUT Information**

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

-----  
 EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS3 (HDW-24529-001) AAC  
 Power Supply: Real battery, fully charged before test  
 Comments:

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G

**Final Result 1**

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBm)
3762.394790	-48.9	10000.0	1000.000	H	121.0	0.0	-95.1	35.9	-13.0

## 8.03\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9538\_Rev2

### Common Information

Test Description: Radiated Emissions UMTS FDDII  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24.238  
 Test Case: -  
 Operating Mode: UE allocated UL channel 9538; Voice  
 Environmental Conditions: Humidity: 73%rH; Temperature: 19°C  
 Operator: Jess

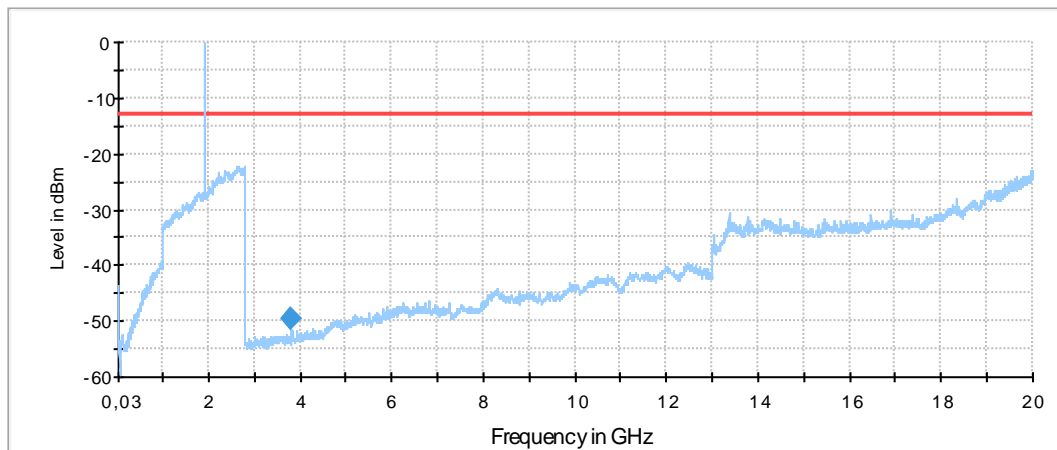
### EUT Information

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

---

EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS3 (HDW-24529-001) AAC  
 Power Supply: Real battery, fully charged before test  
 Comments:

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G



### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3813.617235	-49.6	10000.0	1000.000	H	225.0	90.0	-95.2	36.6	-13.0

**1.6.2. Spurious emissions HSUPA mode****8.04\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9262\_HSUPA\_Rev2****Common Information**

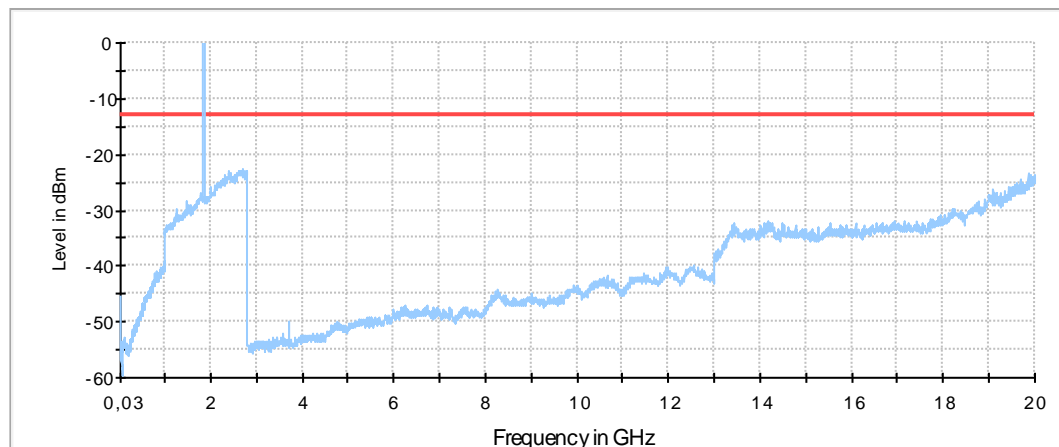
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Comm. Link:	UMTS FDDII
Operating Mode:	MS allocated channel 9262, HSUPA
Exclusionband:	
Environmental Conditions:	Humidity: 61%rH; Temperature: 19°C

**EUT Information**

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)

EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G





## 8.05\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9400\_HSUPA\_Rev2

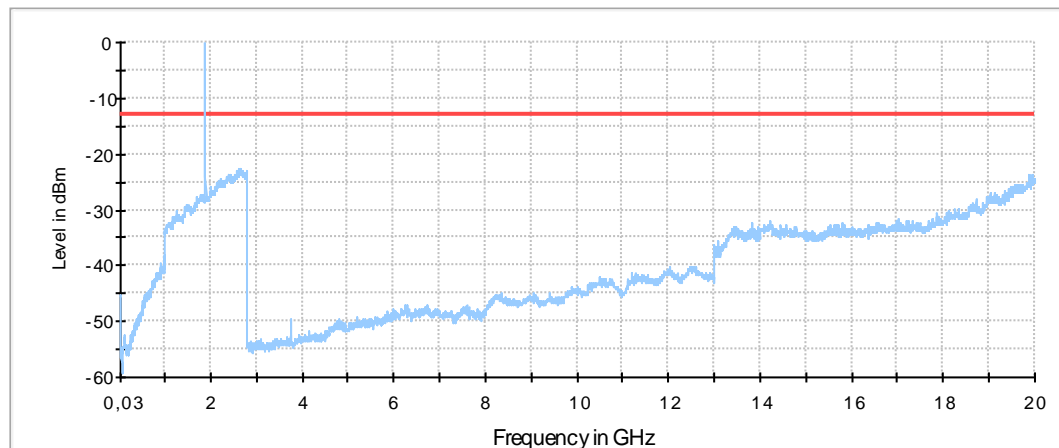
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Comm. Link:	UMTS FDDII
Operating Mode:	MS allocated channel 9400, HSUPA
Exclusionband:	
Operator:	Jess

### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G



## 8.06\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9538\_HSUPA\_Rev2

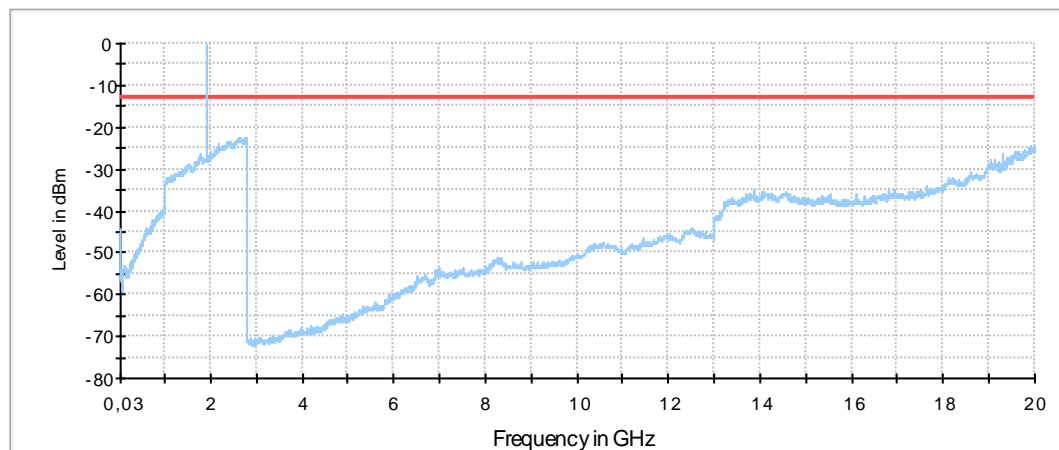
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Comm. Link:	UMTS FDDII
Operating Mode:	MS allocated channel 9538, HSUPA
Exclusionband:	
Environmental Conditions:	Humidity: 61%rH; Temperature: 19°C
Operator:	Jess

### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030414\_FCC\_Part24\_UMTS-FDDII\_TX\_all\_channels\_30M-25G



### 1.6.3. Band-Edge compliance – voice mode

## 8.01a\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9262\_band\_edge\_Rev2

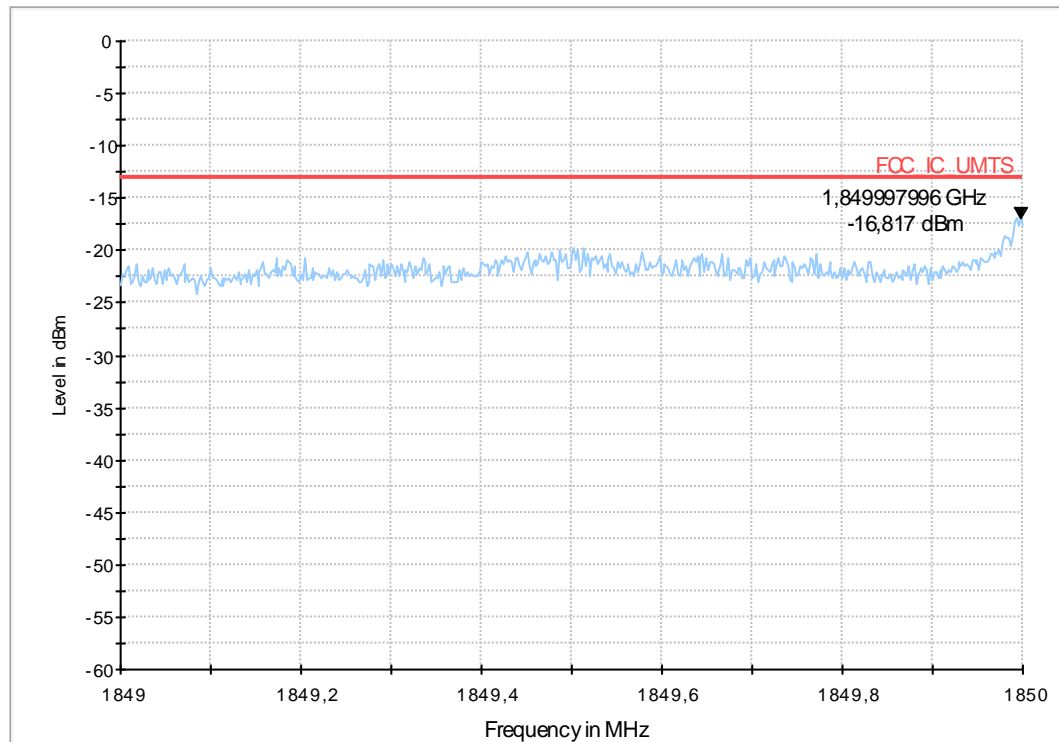
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 9262
Environmental Conditions:	Humidity: 60%; Temperature: 19°
Operator Name:	dpa

### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS3 (HDW-24529-001) AAC
Power Supply:	Real battery, fully charged before test
Comments:	

030415\_FCC\_Part24\_UMTS-FDDII\_TX\_low\_channel\_band\_edge



## 8.03a\_FCC\_Part24\_UMTS- FDDII\_TX\_Ch9538\_band\_edge\_Rev2

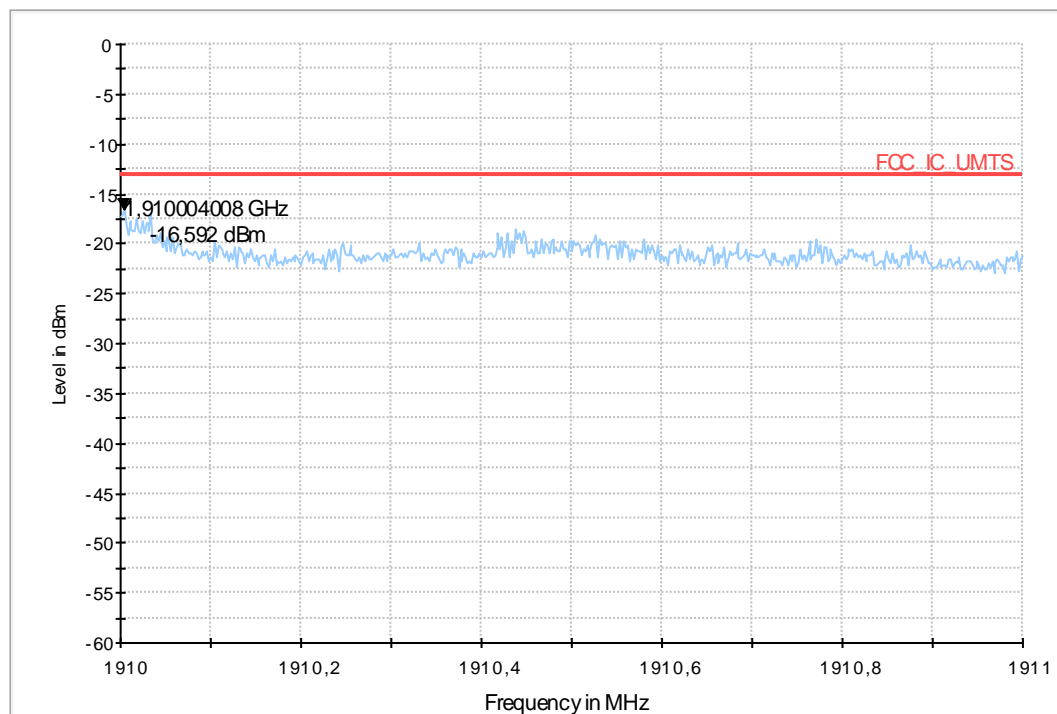
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 9538
Environmental Conditions:	Humidity: 60%; Temperature: 19°
Operator Name:	dpa
Comment:	

### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS3 (HDW-24529-001) AAC
Power Supply:	Real battery, fully charged before test
Comments:	

030416\_FCC\_Part24\_UMTS-FDDII\_TX\_high\_channel\_band\_edge



#### 1.6.4. Band-Edge compliance – HSUPA mode

### 8.04a\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9262\_band\_edge\_HSUPA\_Rev2

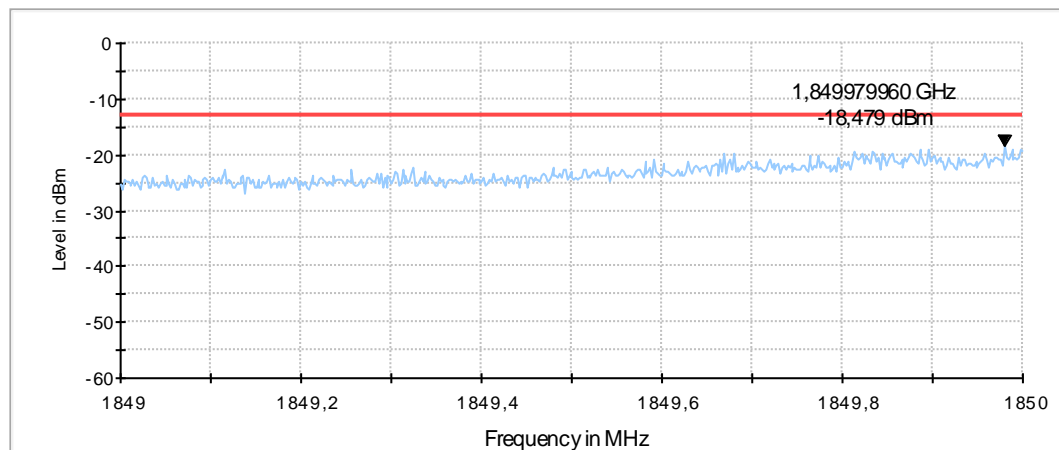
#### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Comm. Link:	UMTS FDDII
Operating Mode:	MS allocated channel 9262, HSUPA
Exclusionband:	
Environmental Conditions:	Humidity: 61%rH; Temperature: 19°C

#### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030415\_FCC\_Part24\_UMTS-FDDII\_TX\_low\_channel\_band\_edge



## 8.06a\_FCC\_Part24\_UMTS-FDDII\_TX\_Ch9538\_band\_edge\_HSUPA\_Rev2

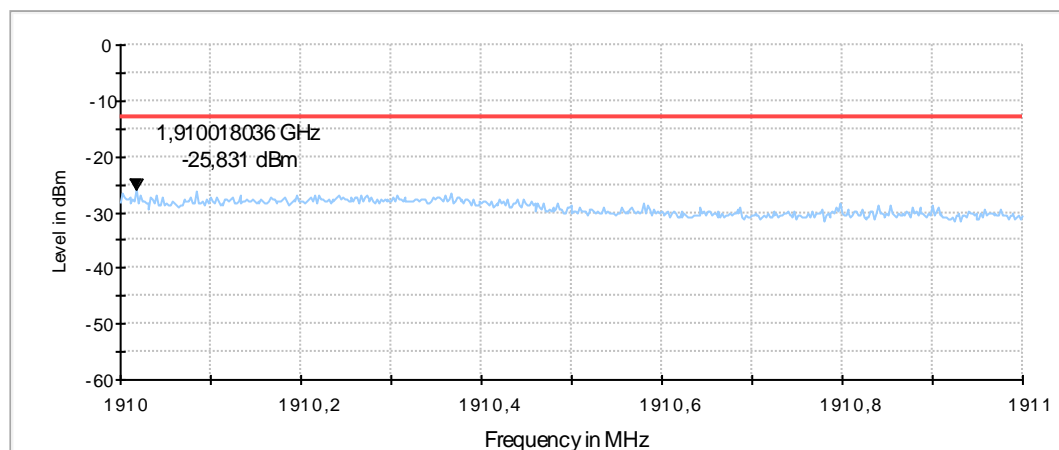
### Common Information

Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 512 (UL = 1850.2MHz),661(UL = 1880.0MHz),810 (UL = 1909.8MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: __%rH; Temperature: __°C
Operator:	

### EUT Information

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030416\_FCC\_Part24\_UMTS-FDDII\_TX\_high\_channel\_band\_edge



## 1.7. Spurious emissions radiated – FDD Band V

### 1.7.1. Spurious emissions voice mode

8.07\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4132\_Rev2

#### Common Information

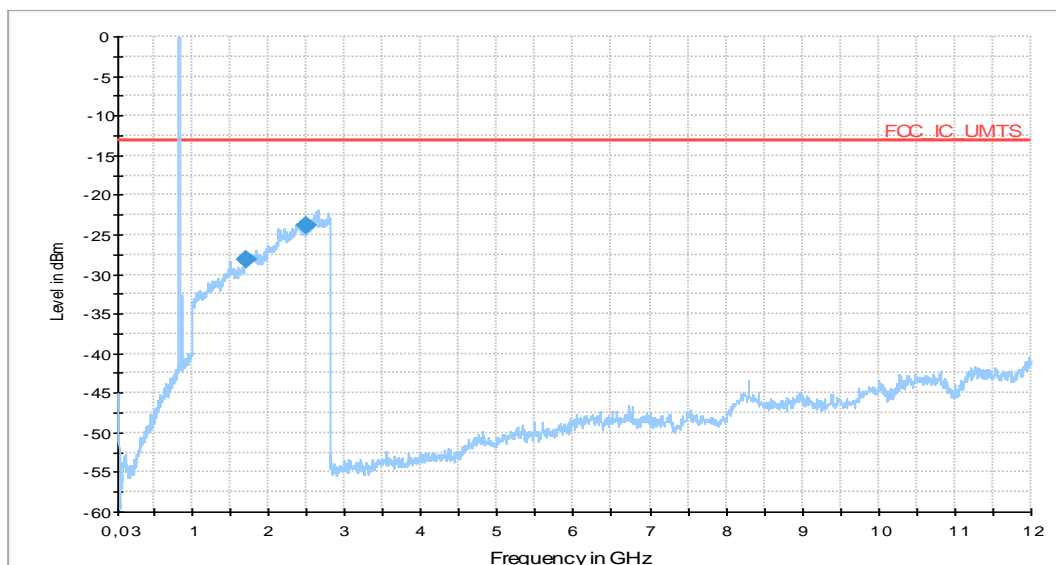
Test Description: Radiated Spurious Emissions UMTS FDDV  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24.238  
 Test Case: -  
 Operation mode: UE allocated channel 4132  
 Environmental Conditions: Humidity: 77%rH; Temperature: 21°C  
 Operator Name: dpa  
 Comment:

#### EUT Information

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

-----  
 EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS1 (HDW-15766-005)  
 Power Supply: Real battery, fully charged before test  
 Comments:

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G



#### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
1697.565130	-28.1	10000.0	1000.000	155.0	V	-23.0	0.0	-64.0	15.1	-13.0
2495.100200	-23.9	10000.0	1000.000	155.0	V	168.0	0.0	-59.7	10.9	-13.0

## 8.08\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4183\_Rev2

**Common Information**

Test Description: Radiated Spurious Emissions UMTS FDDV  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24.238  
 Test Case: -  
 Operating Mode: UE allocated UL channel 4183; Voice  
 Environmental Conditions: Humidity: 77%RH; Temperature: 21°C  
 Operator: dpa

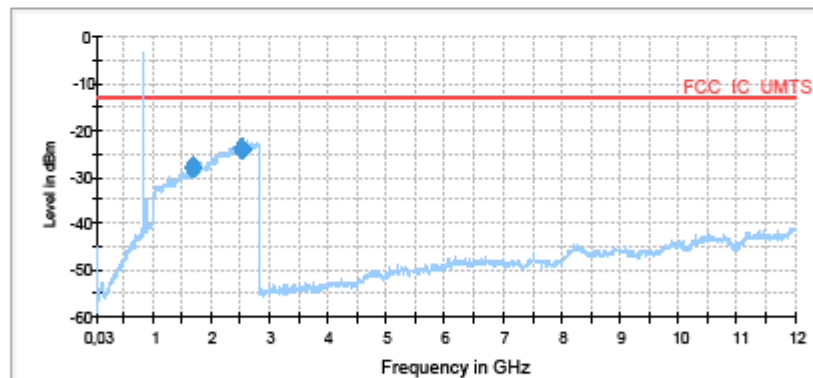
**EUT Information**

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

---

EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS1 (HDW-15786-005)  
 Power Supply: Real battery, fully charged before test  
 Comments:

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G

**Final Result 1**

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
1676.042084	-28.2	10000.0	1000.000	H	37.0	0.0	-64.1	15.2	-13.0
2515.761523	-24.0	10000.0	1000.000	V	25.0	0.0	-59.6	11.0	-13.0



## 8.09\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4233\_Rev2

**Common Information**

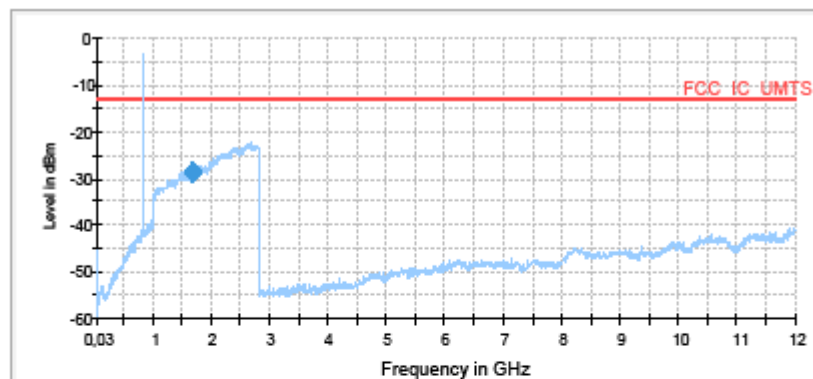
Test Description: Radiated Spurious Emissions UMTS FDDV  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part24.238  
 Test Case: -  
 Operating Mode: UE allocated UL channel 4233; Voice  
 Environmental Conditions: Humidity: 77%RH; Temperature: 21°C  
 Operator: dpa

**EUT Information**

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS1 (HDW-15788-005)  
 Power Supply: Real battery, fully charged before test  
 Comments:

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G

**Final Result 1**

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
1678.947896	-28.8	1000.0	1000.000	H	232.0	0.0	-64.1	15.8	-13.0

### 1.7.2. Spurious emissions HSUPA mode

#### 8.10\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4132\_HSUPA\_Rev2

#### Common Information

Test Description: Radiated Spurious Emissions GSM850  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part 22.917  
 Comm. Link: UMTS FDD5, HSUPA  
 Operating Mode: channel 4132  
 Exclusionband: 824 - 849MHz  
 Environmental Conditions: Humidity: 59%rH; Temperature: 18°C  
 Operator: kta

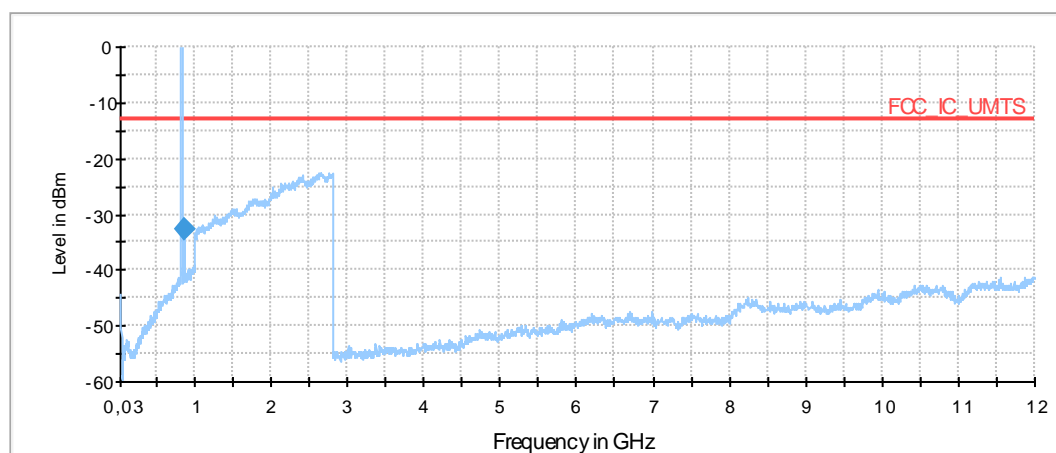
#### EUT Information

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

---

EUT: REA71UW 125; Rev2  
 EUT additional information: -  
 HW version: CPR 18127 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138459470  
 Connected Interfaces: HS2 (HDW-24529-001 Hoisden)  
 Power Supply: Real battery, fully charged before test  
 Comments:

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G



#### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
871.332666	-32.8	10000.0	1000.000	H	330.0	90.0	-75.7	19.8	-13.0

## 8.11\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4183\_HSUPA\_Rev2

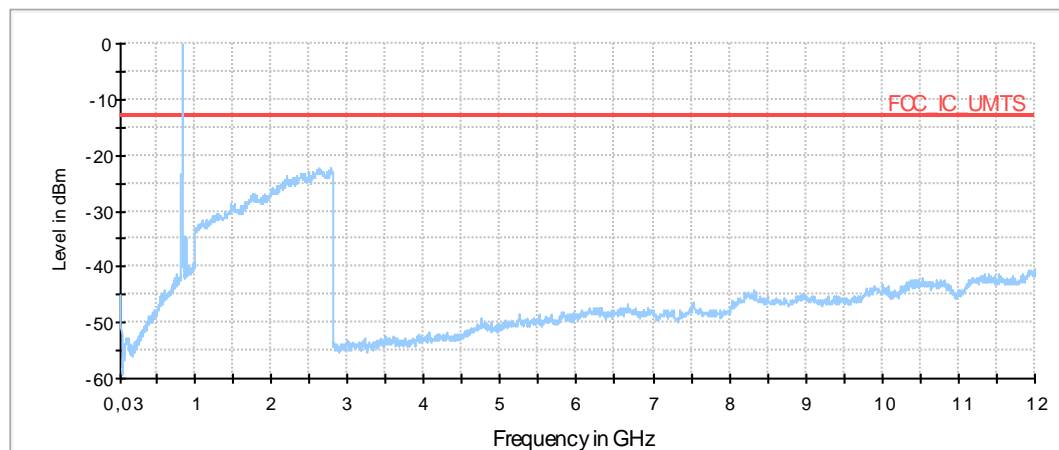
**Common Information**

Test Description:	Radiated Spurious Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	UMTS FDD5, HSUPA
Operating Mode:	channel 4183
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 59%rH; Temperature: 18°C
Operator:	cta

**EUT Information**

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G



## 8.12\_FCC\_Part24\_UMTS-FDDV\_TX\_Ch4233\_HSUPA\_Rev2

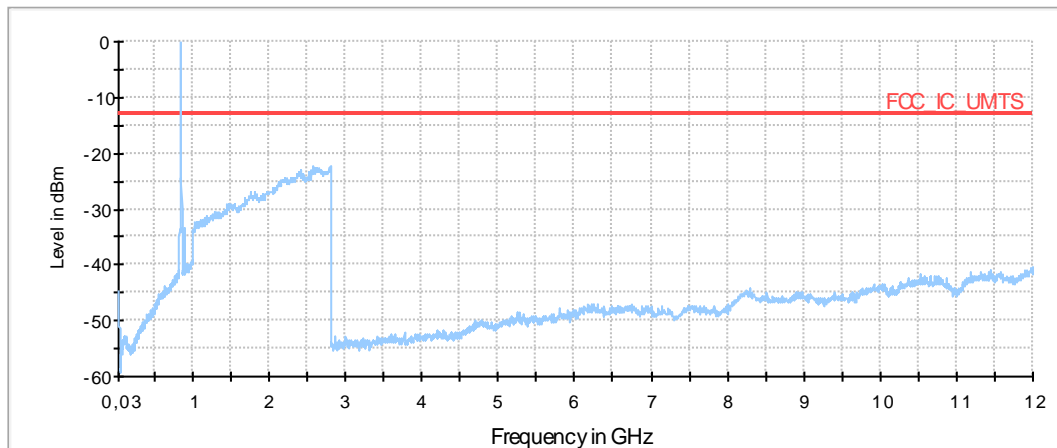
**Common Information**

Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	UMTS FDD5, HSUPA
Operating Mode:	channel 4233
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 58%rH; Temperature: 18°C
Operator:	cta

**EUT Information**

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)
-----	
EUT:	REA71UW 125; Rev2
EUT additional information:	-
HW version:	CPR 18127 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138459470
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	

030411\_FCC\_Part22\_UMTS-FDDV\_TX\_all\_channels\_30M-12G



### 1.7.3. Band-Edge compliance – voice mode

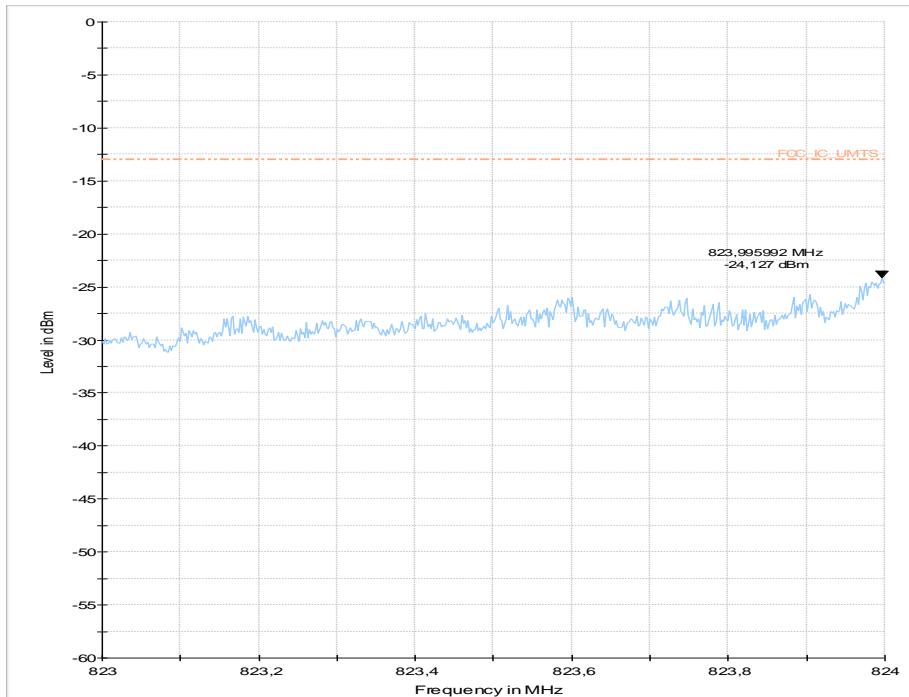


Diagram 8.07aa, Band-Edge, channel 4132

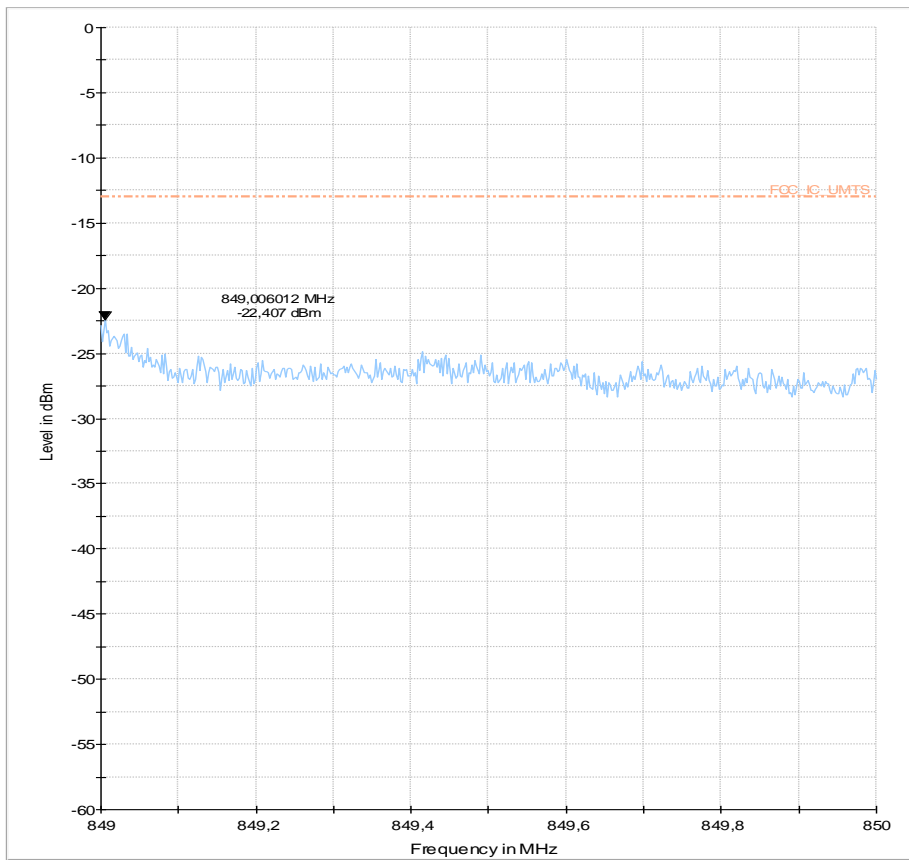


Diagram 8.09aa, Band-Edge, channel 4233

### 1.7.4. Band-Edge compliance – HSUPA mode

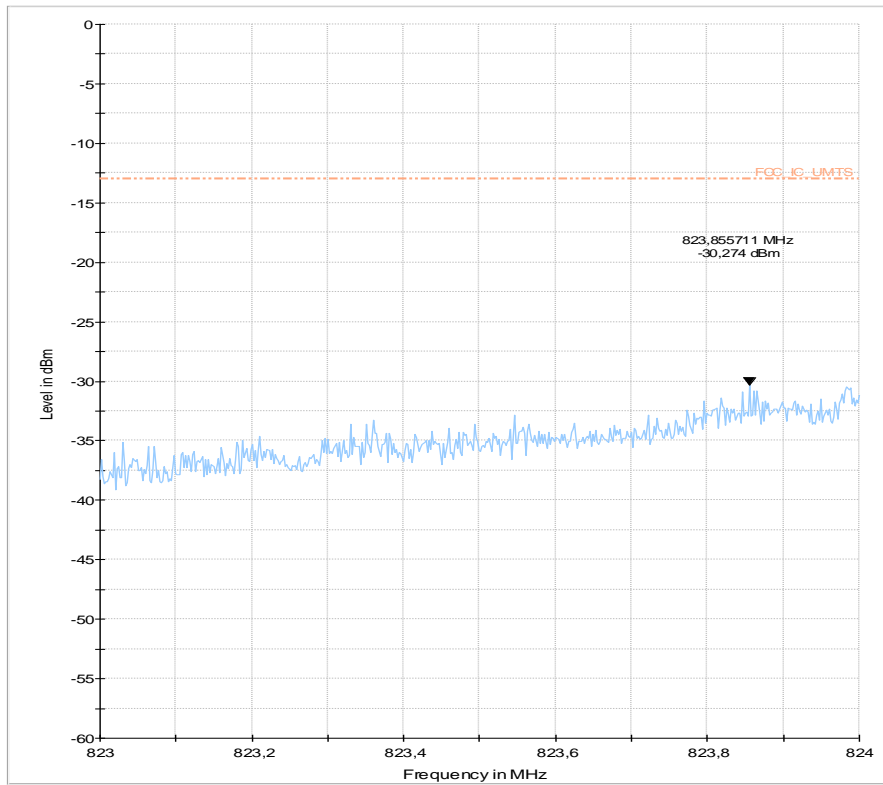


Diagram 8.10aa, Band-Edge, channel 4132

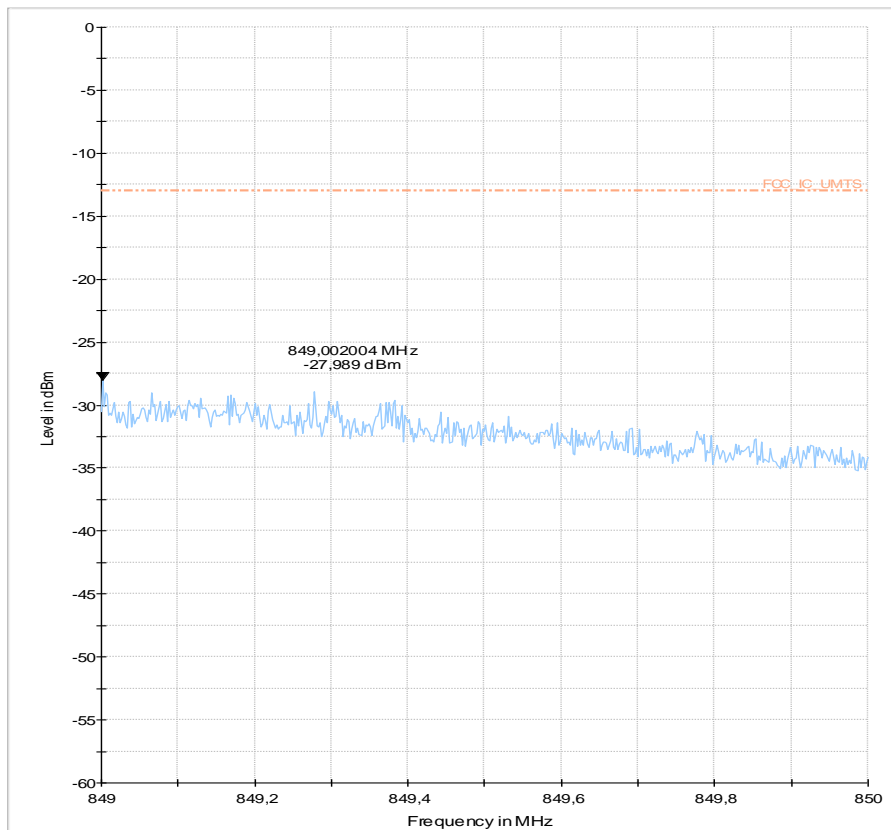


Diagram 8.12aa, Band-Edge, channel 4233

## 1.8. Spurious emissions radiated – FDD Band IV

### 1.8.1. Spurious emissions voice mode

8.01\_FCC\_Part27\_UMTS-FDDIV\_TX\_Ch1312\_Rev2

#### Common Information

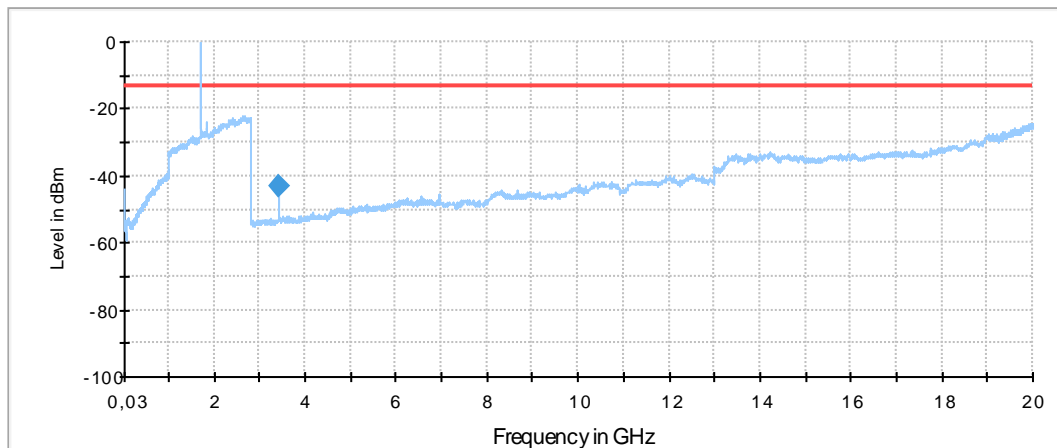
Test Description: Radiated Spurious Emissions UMTS-FDDIV  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part 27  
 Comm. Link: UMTS-FDDIV (Voice)  
 Operating Mode: UE allocated channel 1312  
 Exclusionband: 1710 - 17559MHz  
 Environmental Conditions: Humidity: 66%rH; Temperature: 19°C  
 Operator: Jess

#### EUT Information

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

-----  
 EUT: REB71UW 148 Rev2  
 EUT additional information: -  
 HW version: CPR 18125 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138460254  
 Connected Interfaces: HS2 (HDW-24529-001 Hoisden)  
 Power Supply: Real battery, fully charged before test  
 Comments: None

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G



#### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3426.753507	-43.1	10000.0	1000.000	H	267.0	0.0	-95.5	30.1	-13.0

## 8.02\_FCC\_Part27\_UMTS-FDDIV\_TX\_Ch1412\_Rev2

**Common Information**

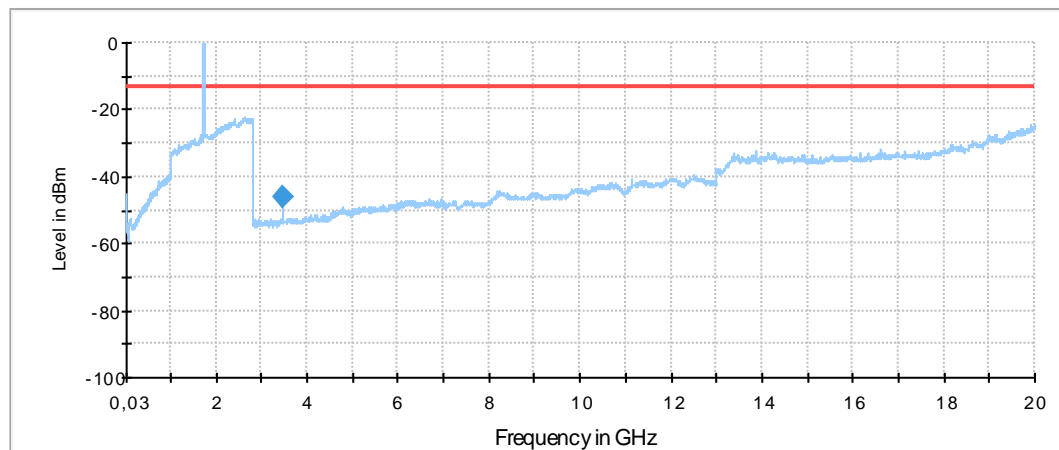
Test Description: Radiated Spurious Emissions UMTS-FDDIV  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part 27  
 Comm. Link: UMTS-FDDIV (Voice)  
 Operating Mode: UE allocated channel 1413  
 Exclusionband: 1710 - 17559MHz  
 Environmental Conditions: Humidity: 66%rH; Temperature: 19°C

**EUT Information**

Manufacturer: Research in Motion  
 Model: Blackberry Curve  
 Type: GSM/WCDMA Mobile Phone (Stick)

-----  
 EUT: REB71UW 148 Rev2  
 EUT additional information: -  
 HW version: CPR 18125 R032  
 SW version: ASY-39829-001  
 Additional SW: -  
 Config: -  
 Serial number: 004401138460254  
 Connected Interfaces: HS2 (HDW-24529-001 Hoisden)  
 Power Supply: Real battery, fully charged before test  
 Comments: None

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G

**Final Result 1**

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3463.667335	-46.4	10000.0	1000.000	V	-1.0	90.0	-95.4	33.4	-13.0



## 8.03\_FCC\_Part27\_UMTS-FDDIV\_TX\_Ch1513\_Rev2

**Common Information**

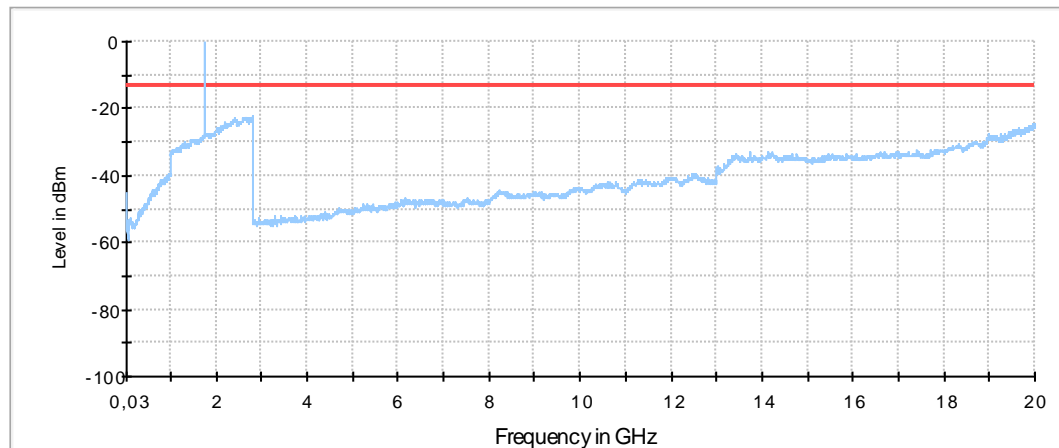
Test Description:	Radiated Spurious Emissions UMTS-FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Comm. Link:	UMTS-FDDIV (Voice)
Operating Mode:	UE allocated channel 1513
Exclusionband:	1710 - 17559MHz
Environmental Conditions:	Humidity: 66%rH; Temperature: 19°C
Operator:	Jess

**EUT Information**

Manufacturer:	Research in Motion
Model:	Blackberry Curve
Type:	GSM/WCDMA Mobile Phone (Stick)

EUT:	REB71UW 148 Rev2
EUT additional information:	-
HW version:	CPR 18125 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138460254
Connected Interfaces:	HS2 (HDW-24529-001 Hoisden)
Power Supply:	Real battery, fully charged before test
Comments:	None

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G



### 1.8.2. Spurious emissions HSUPA mode

2-0023-11-1-6b CETECOM GmbH

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#### 8.04\_FCC\_Part27\_UMTS-FDDIV\_HSUPA\_Ch1312\_Rev2

##### Common Information

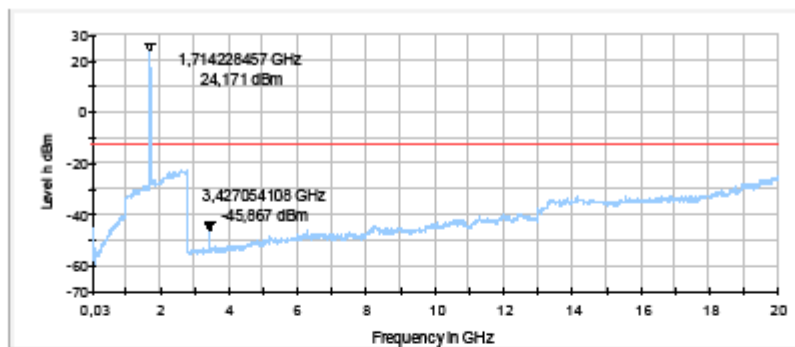
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27

Operator: Yzh

##### EUT Information

Manufacturer:	Research In Motion
Model:	Blackberry
Type:	
-----	
EUT:	REB71UW Rev2
EUT additional information:	-
HW version:	CPR 18125 R032
SW version:	ASY-39829-001
Additional SW:	-
Config:	-
Serial number:	004401138460254
Connected interfaces:	--
Power Supply:	Real battery, fully charged before test
Comments:	None

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G



23.09.2011

12:20:03

8.05\_FCC\_Part27\_UMTS-FDDIV\_HSUPA\_Ch1413\_Rev2

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### EMC32 Report

**Common Information**

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Operating Conditions:	Humidity: 60%; Temperature: 19°
Operator Name:	Yzh

**EUT Information**

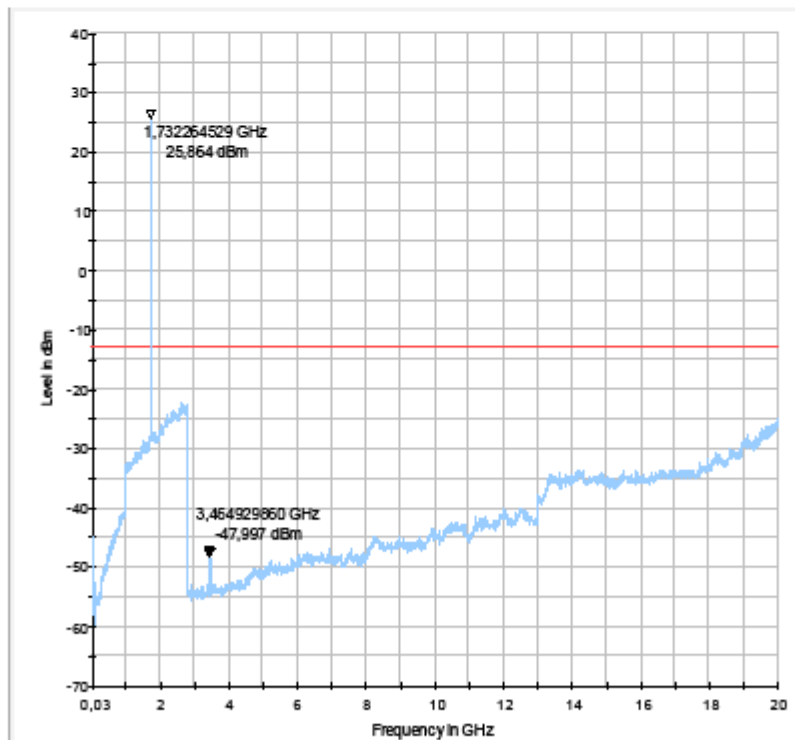
Manufacturer:	Research In Motion
Model:	Blackberry
Type:	

EUT:	REB71UW 148 Rev2
EUT additional information:	-
HW version:	CPR 18125 R032
SW version:	-
Additional SW:	-
Config:	-
Serial number:	004401138460254
Connected interfaces:	

Power Supply: full battery,  
 Comments:

**030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G**

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G



23.09.2011

EMC32 V8.51.1

13:54:43

8.06\_FCC\_Part27\_UMTS-FDDIV\_HSUPA\_Ch1513\_Rev2

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### EMC32 Report

**Common Information**

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Operating Conditions:	Humidity: 60%; Temperature: 19°
Operator Name:	Yzh

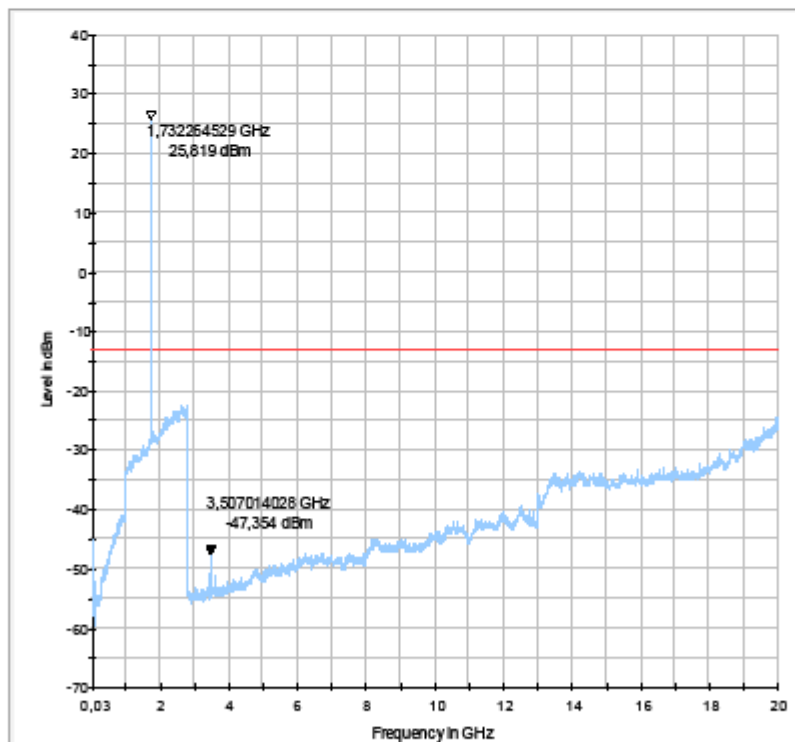
**EUT Information**

Manufacturer:	Research In Motion
Model:	Blackberry
Type:	

EUT:	REB71UW 148 Rev2
EUT additional information:	-
HW version:	CPR 18125 R032
SW version:	-
Additional SW:	-
Config:	-
Serial number:	004401138460254
Connected interfaces:	

Power Supply:	Full battery
Comments:	

030417\_FCC\_Part27\_UMTS-FDDIV\_TX\_all\_channels\_30M-20G



23.09.2011

EMC32 V8.51.1

14:39:17

### 1.8.3. Band-Edge compliance – voice mode

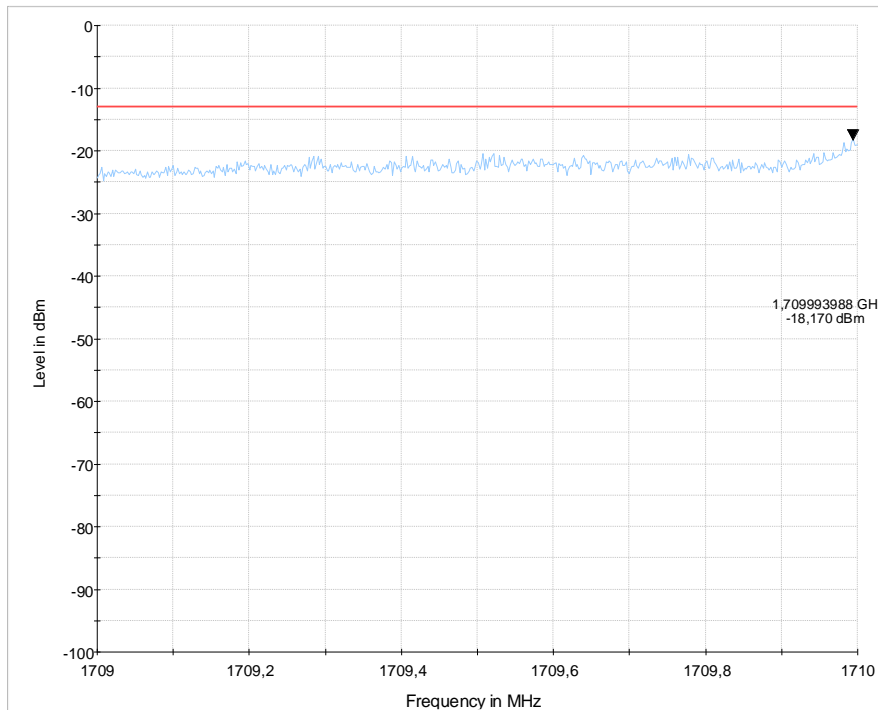


Diagram 8.01aa, Band-Edge Channel 1312

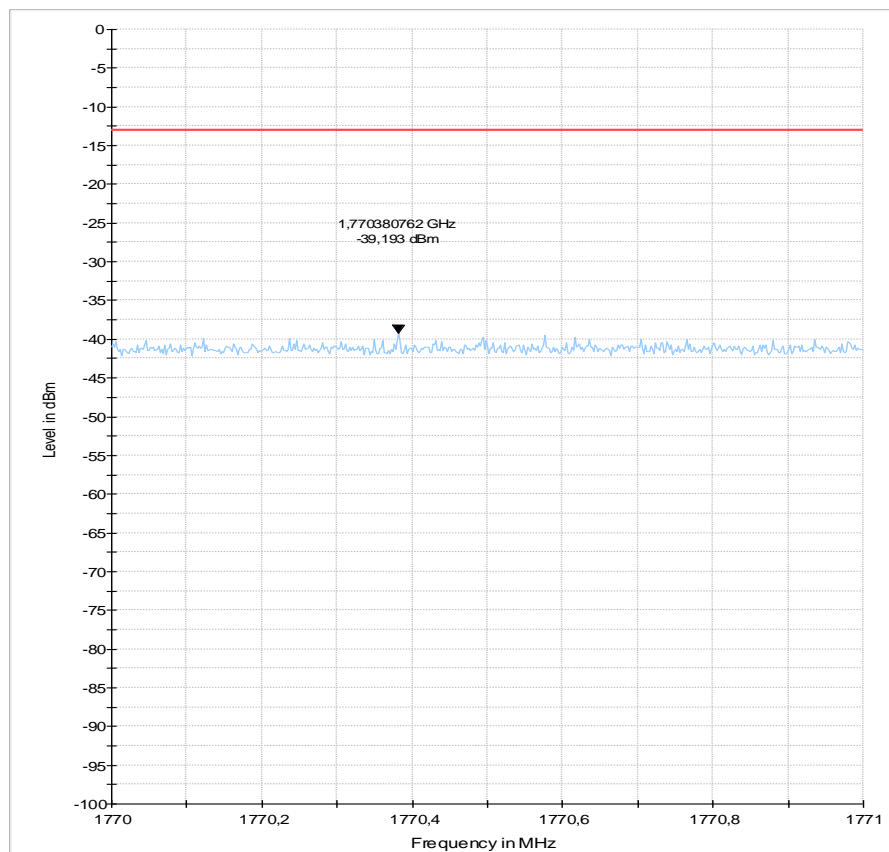


Diagram 8.03aa, Band-Edge Channel 1513

### 1.8.4. Band-Edge compliance – HSUPA mode

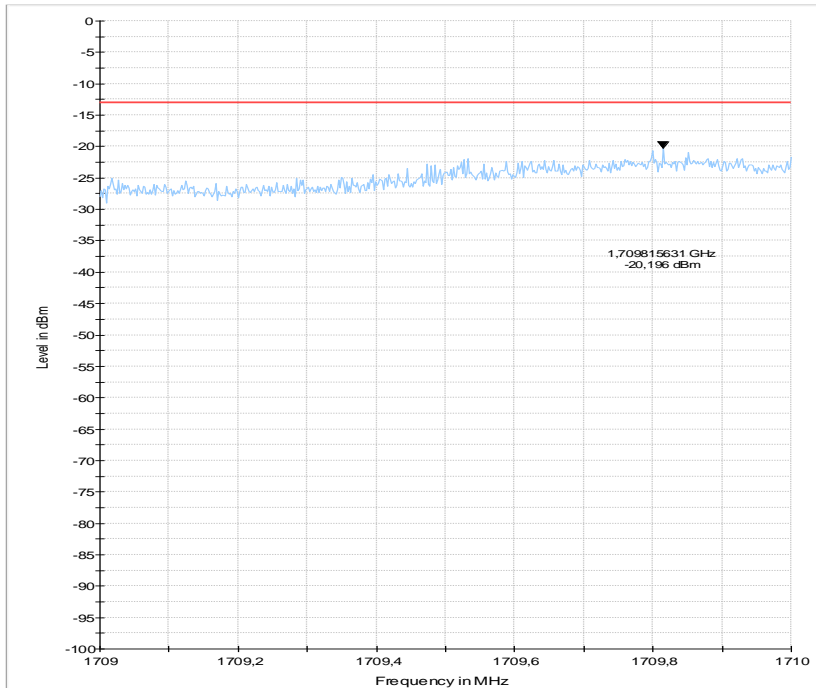


Diagram 8.04aa, Band-Edge Channel 1312

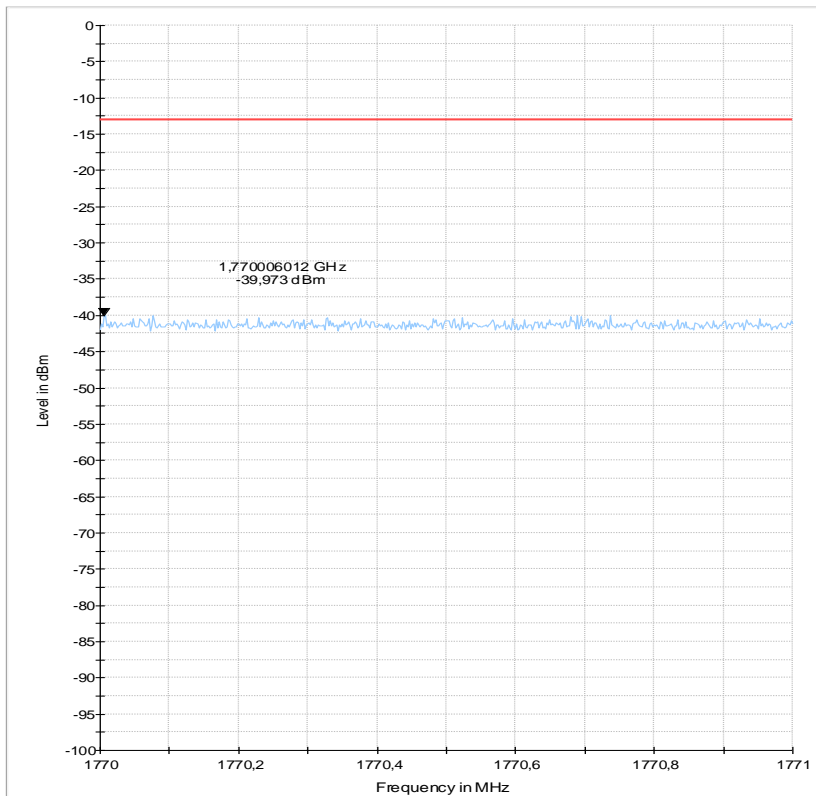


Diagram 8.06aa, Band-Edge Channel 1312

## 1.9. Radiated magnetic field strength measurements (f<30MHz)

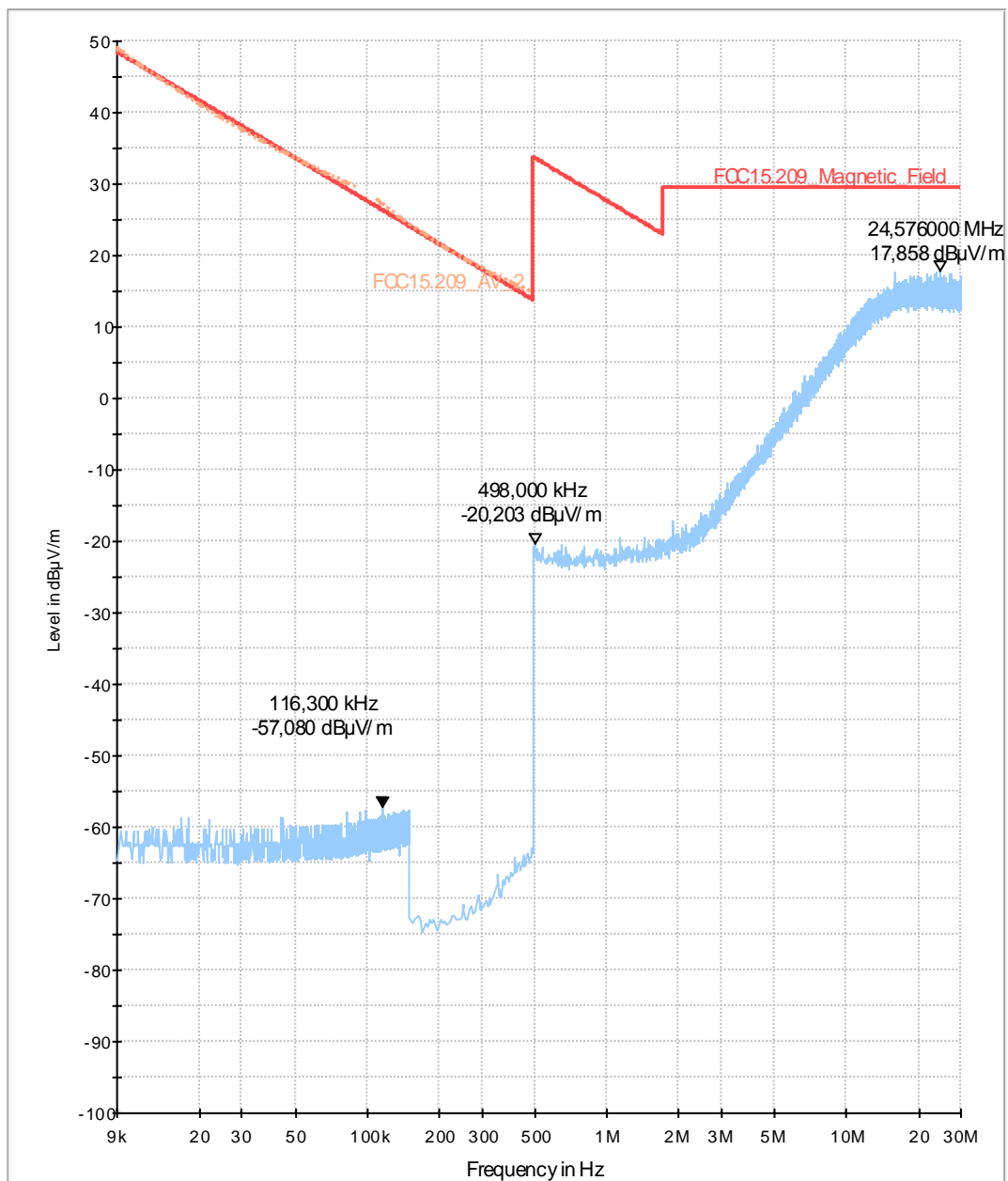
### 1.9.1. Spurious emissions radiated – FDD Band II Voice Mode

#### Diagram No. b\_3.04

##### Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLa
Operating conditions:	UMTS FDD 2 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 9262

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dBµV/m - 50 dBµV/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

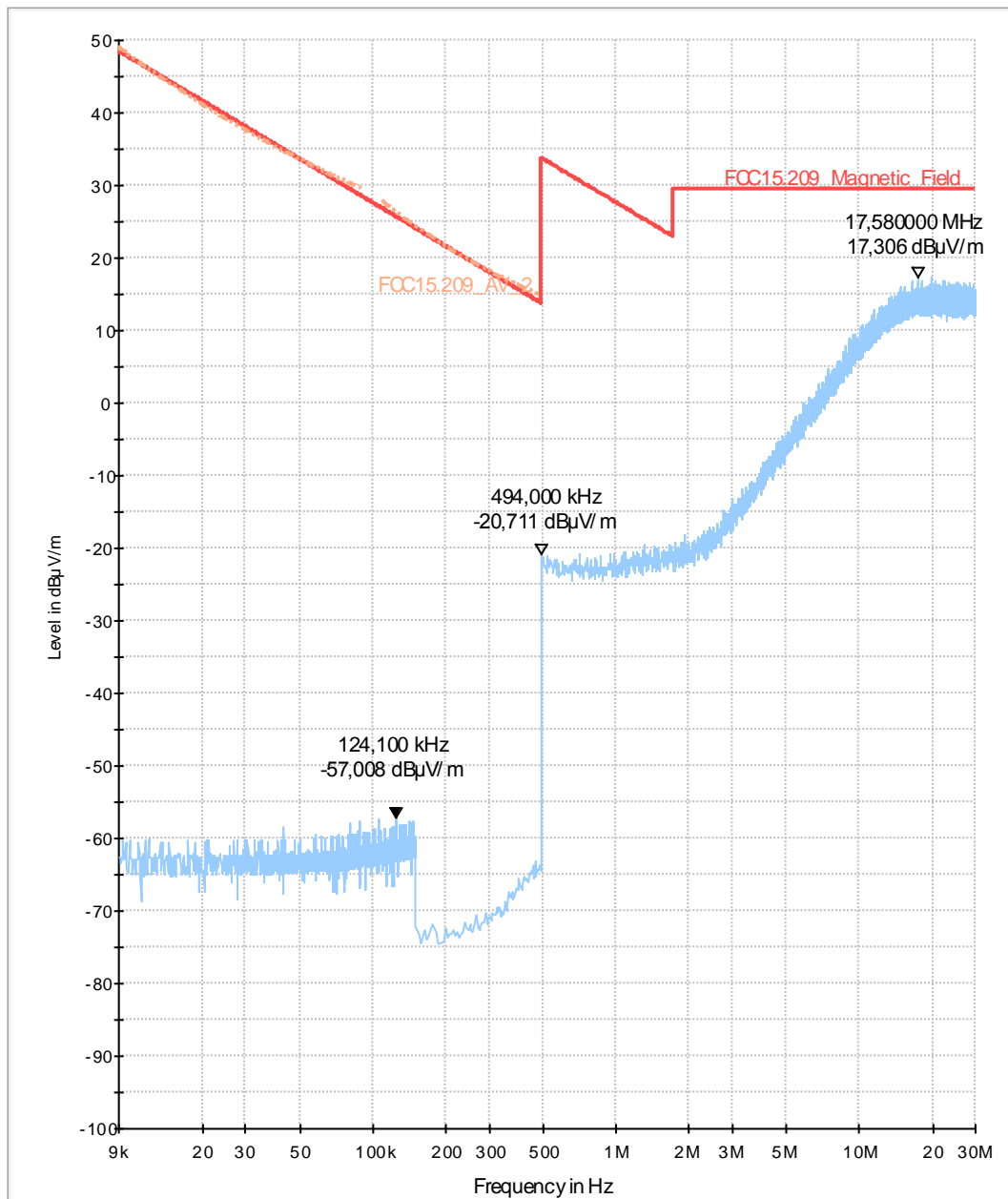


### Diagram No. b\_3.05

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLa
Operating conditions:	UMTS FDD 2 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 9400

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

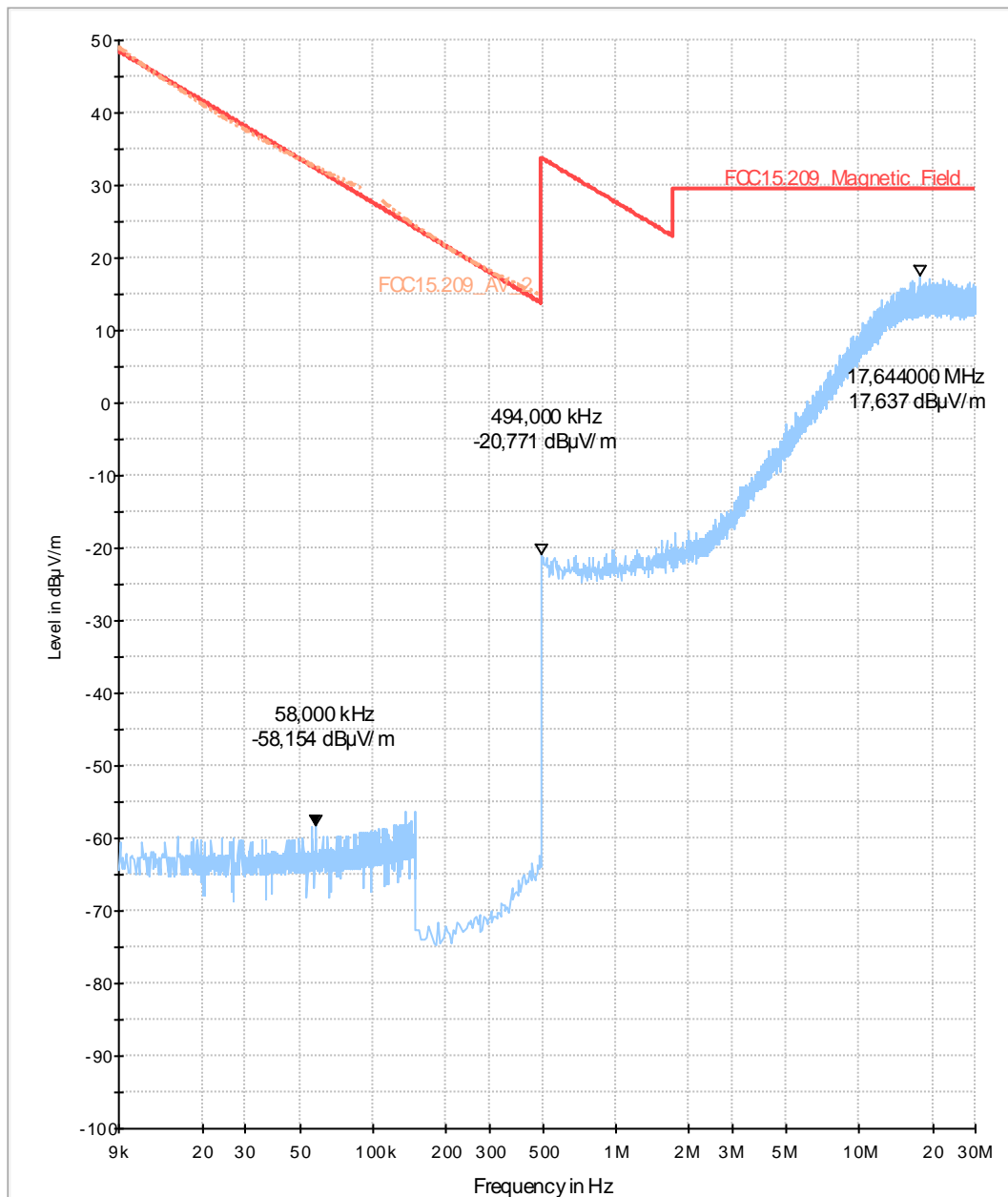
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. b\_3.06

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLA
Operating conditions:	UMTS FDD 2 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 9538

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

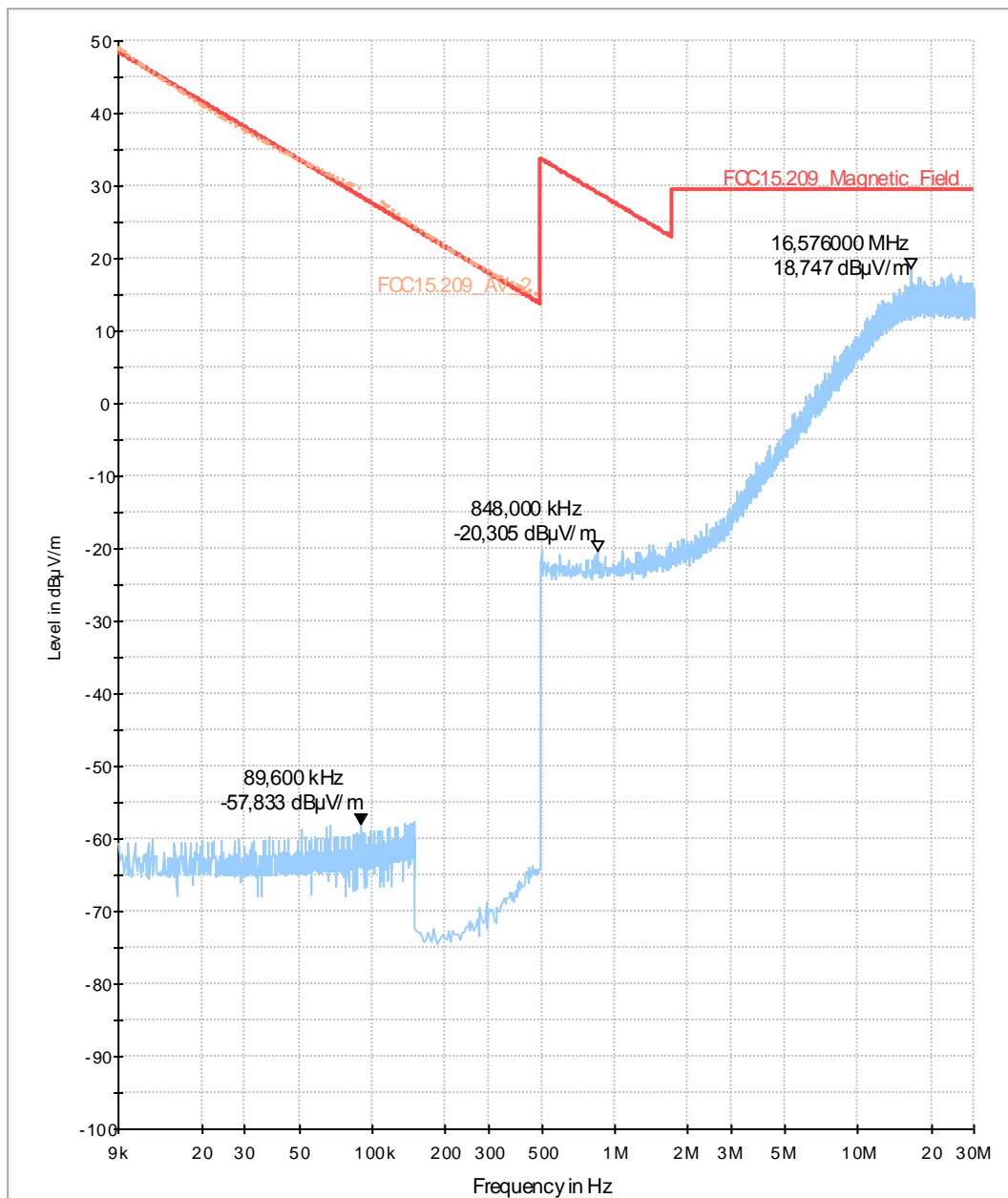
1.9.2. Spurious emissions radiated – FDD Band II HSUPA Mode

Diagram No. b\_3.11

Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD II (low channel= 9262); REA71 UW (CER-41251-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dBµV/m - 50 dBµV/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

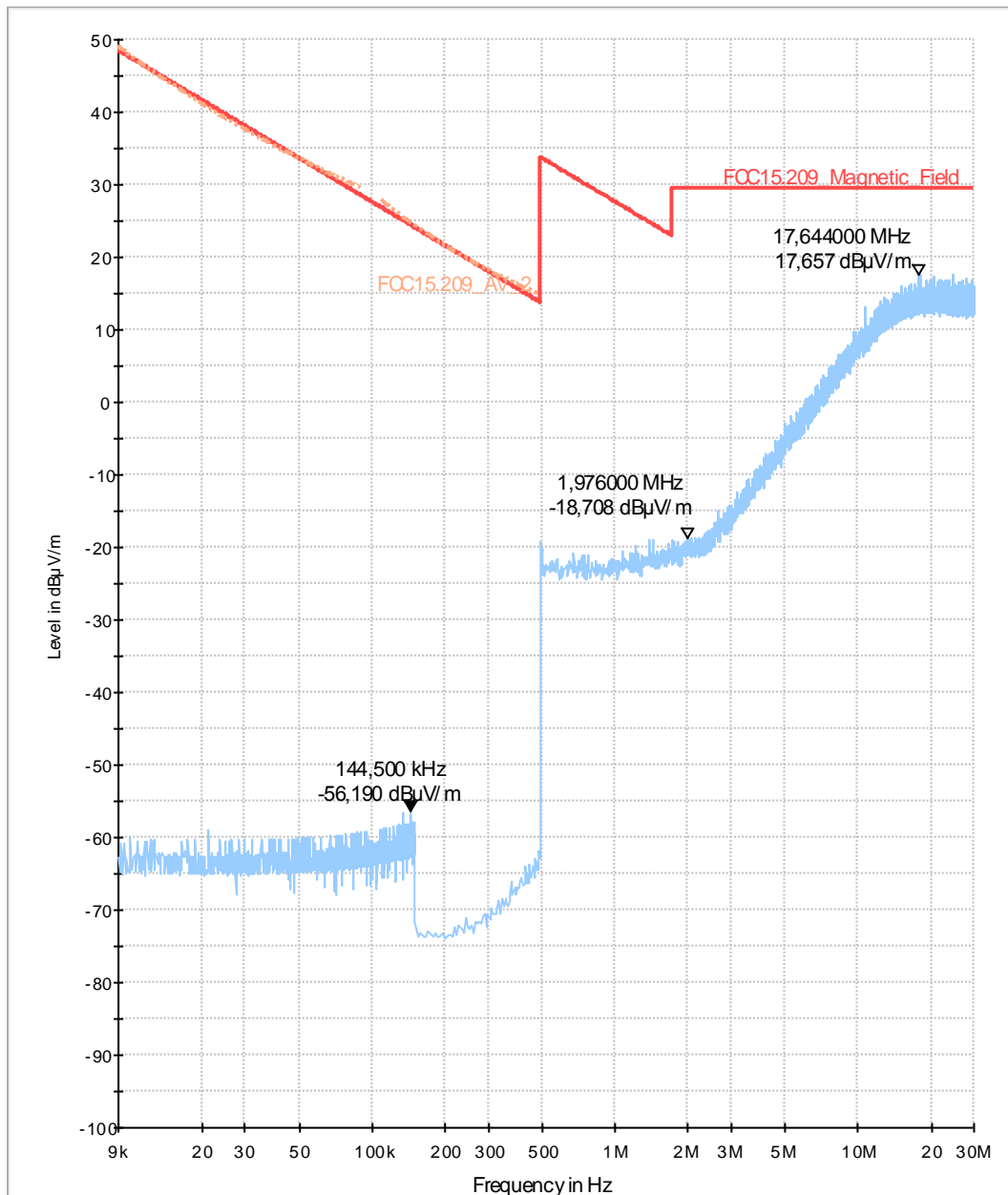
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. b\_3.12

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD II (middle channel= 9400), REA71 UW (CER-41251-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

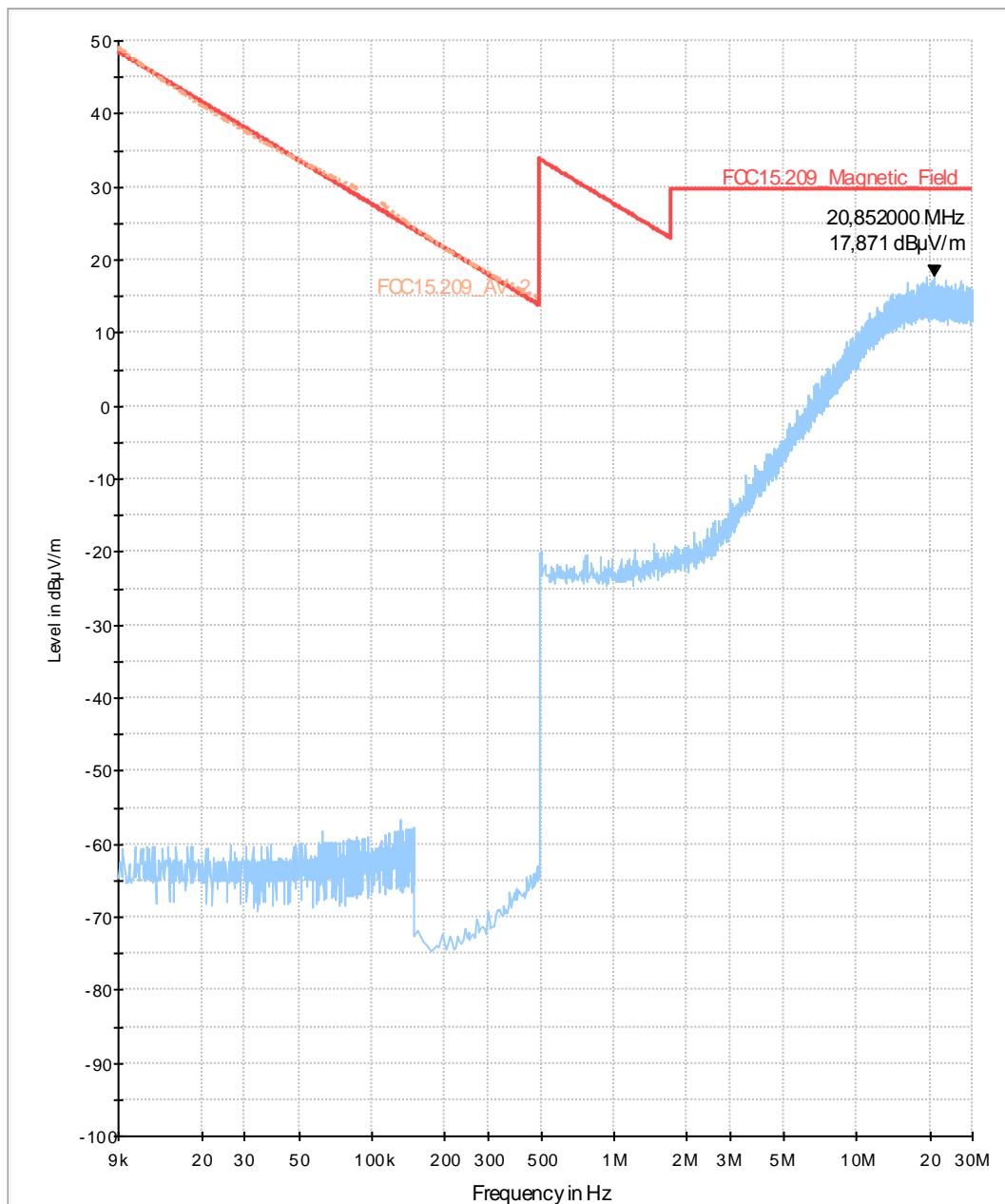


### Diagram No. b\_3.13

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD II (high channel= 9538); REA71 UW (CER-41251-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### 1.9.3. Spurious emissions radiated – FDD Band IV HSUPA Mode

## Diagram No. c\_3.08

#### Common Information

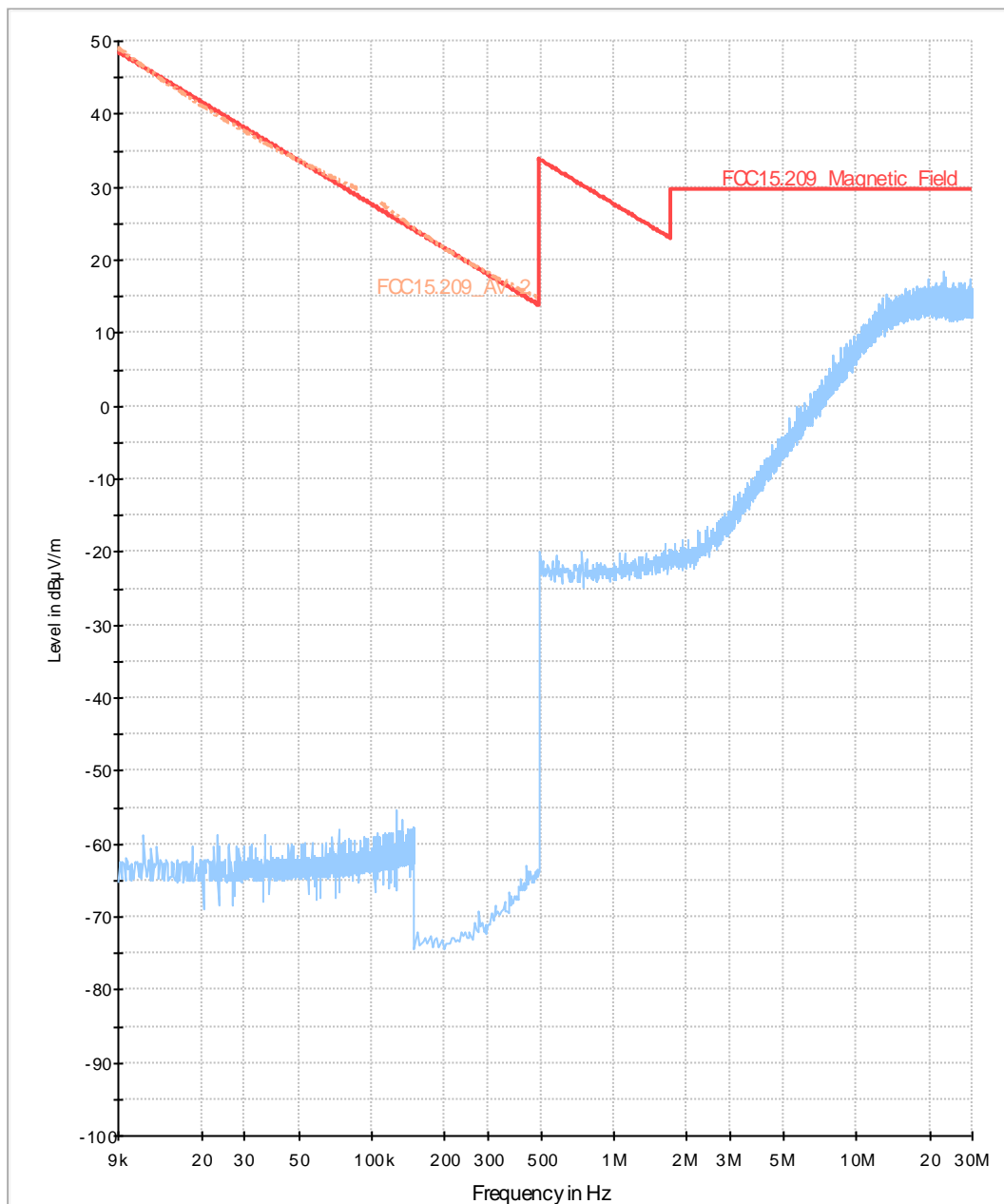
Test description:  
 Test site and distance:  
 Measured sides of EUT:  
 Rec. antenna (pre-scan):  
 Turntable step:  
 Used filter:  
 Test specification.:

Magnetic Fieldstrength Measurement related to 3 m distance  
 Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance  
 front, right, rear, left  
 height 1.00 m, parallel and 90° to EUT polarisation  
 90° during pre-scan  
 bypass  
 FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:  
 Operating conditions:  
 Power during tests:  
 Comment 1:

Tas  
 TX-on HSUPA  
 full loaded batteries  
 FDD IV low 1312; REB71 UW (CER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

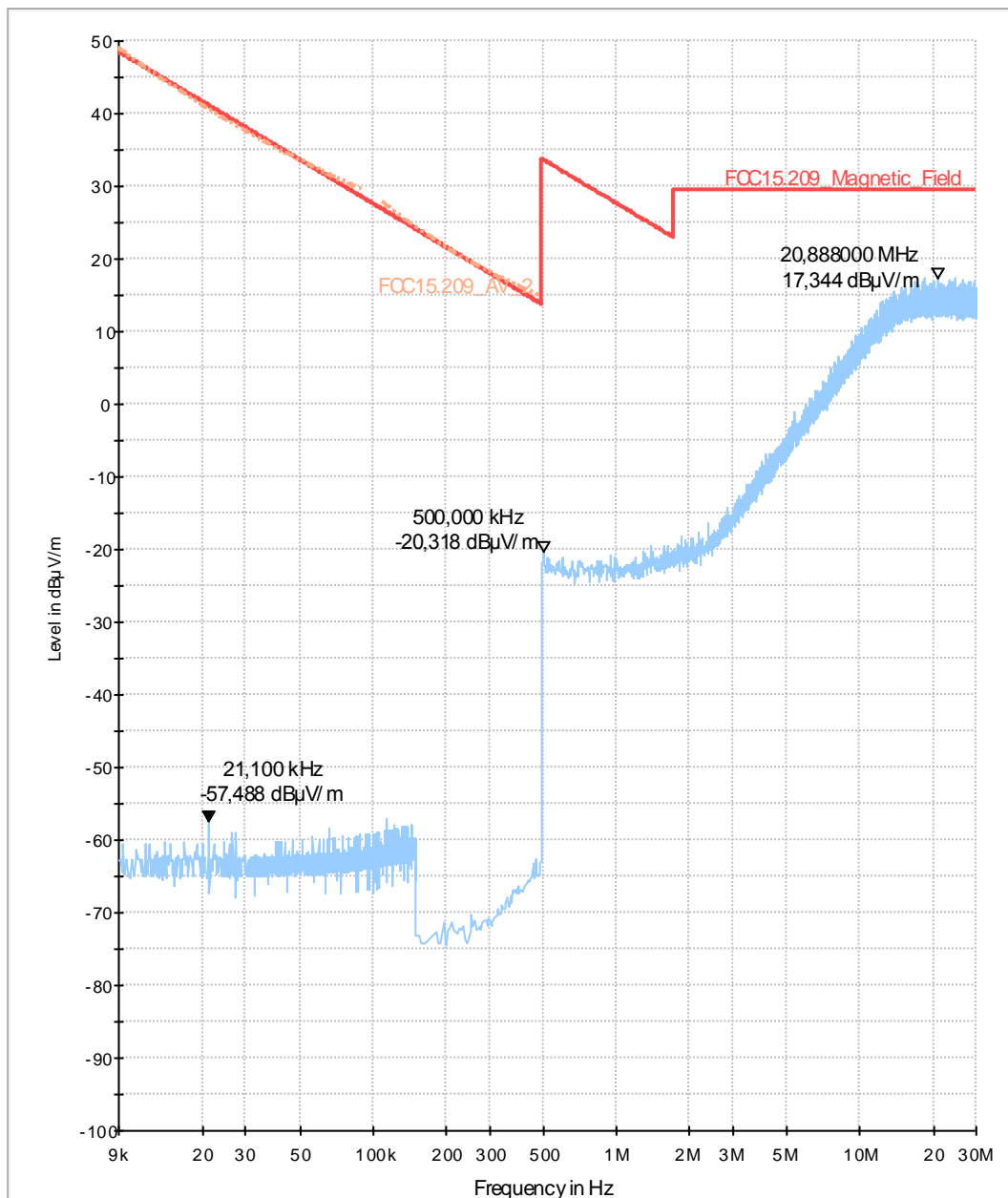
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. c\_3.09

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on, HSUPA
Power during tests:	full loaded batteries
Comment 1:	FDD IV middle 1413; REB71 UW (CER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dBµV/m - 50 dBµV/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

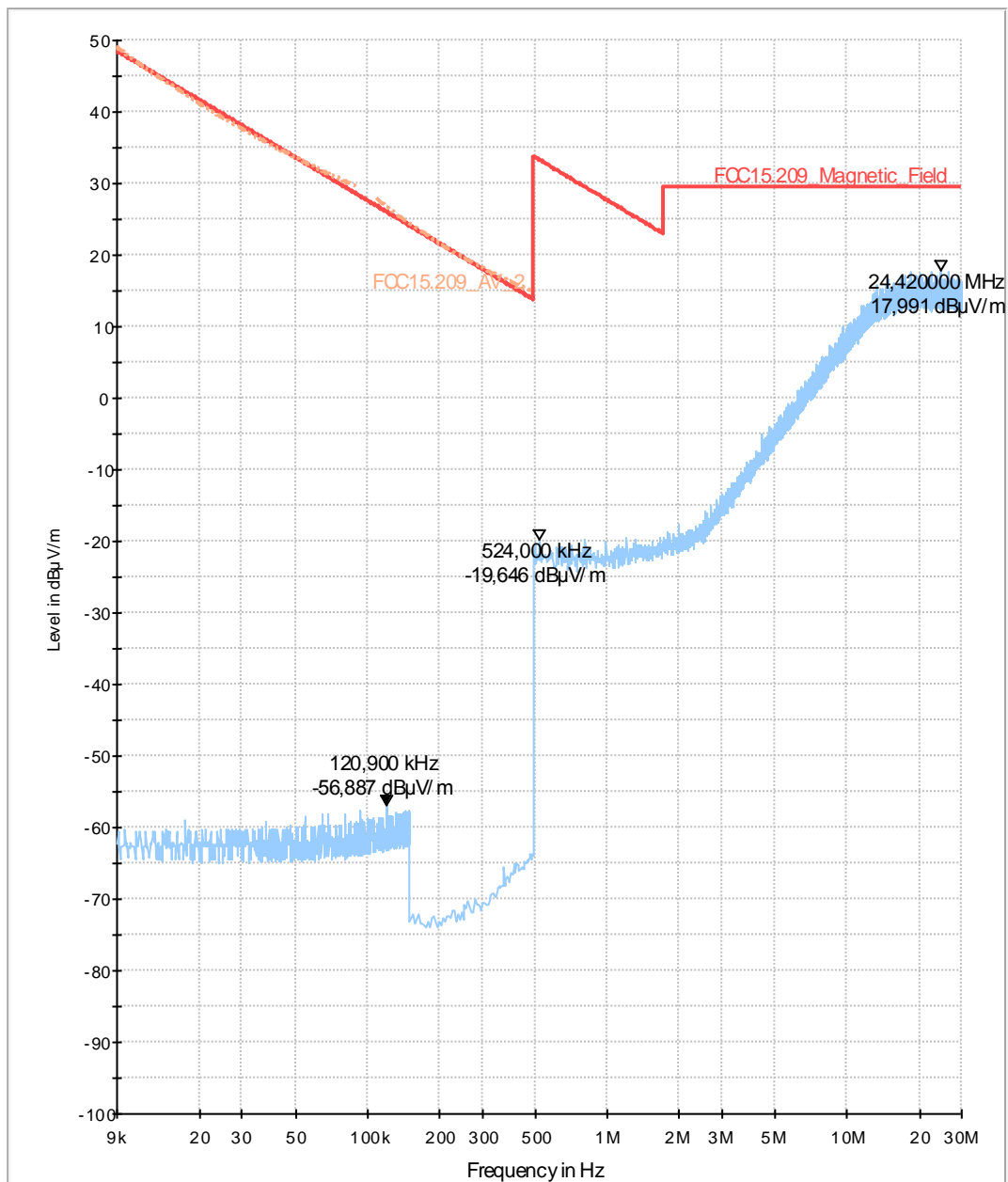
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. c\_3.10

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on, HSUPA
Power during tests:	full loaded batteries
Comment 1:	FDD IV high 1513; REB71 UW (CER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'



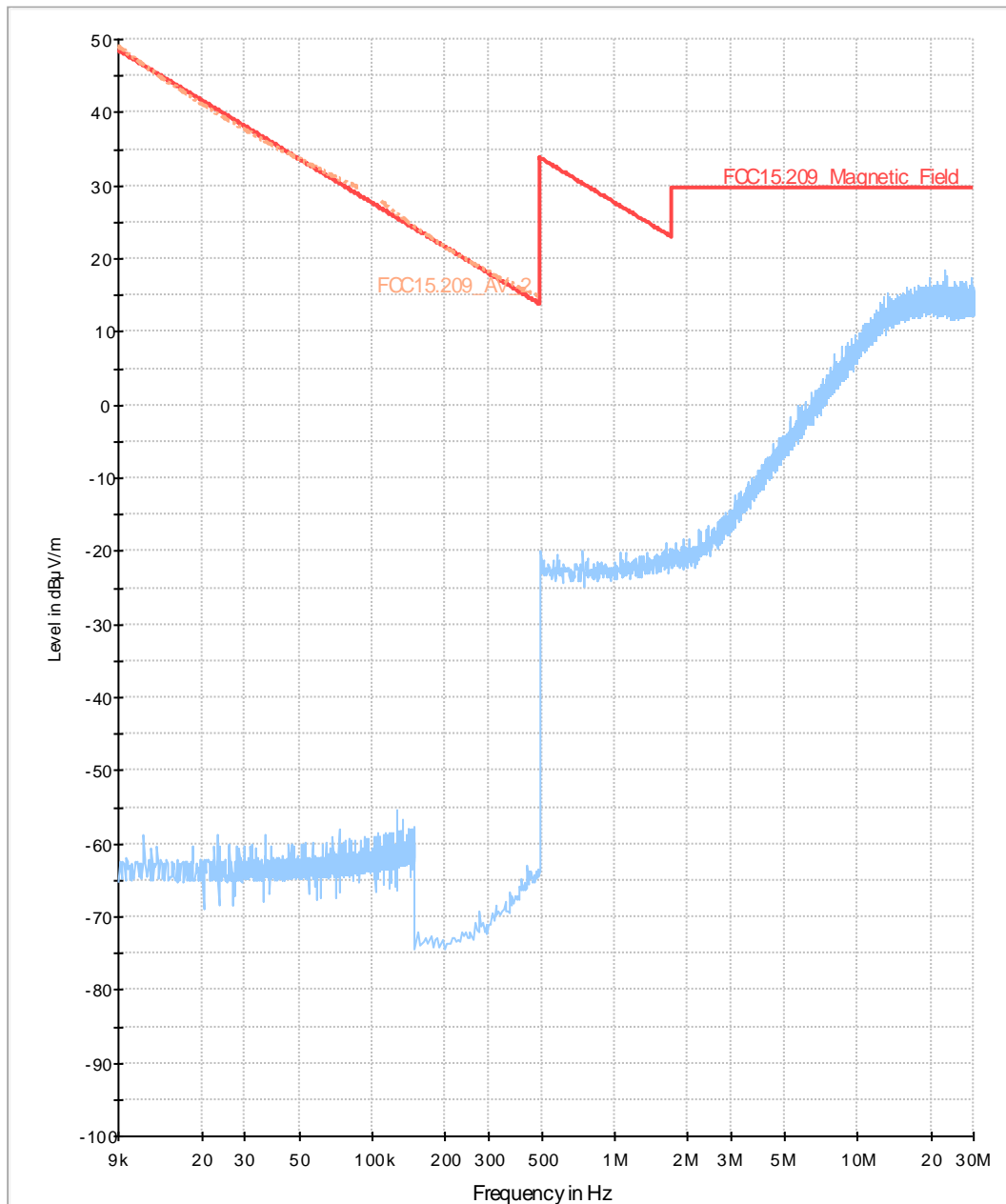
### 1.9.4. Spurious emissions radiated – FDD Band IV Voice Mode

## Diagram No. c\_3.17

#### Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Sha
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD IV low 1312; REB71 UW (CER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. c\_3.18

#### Common Information

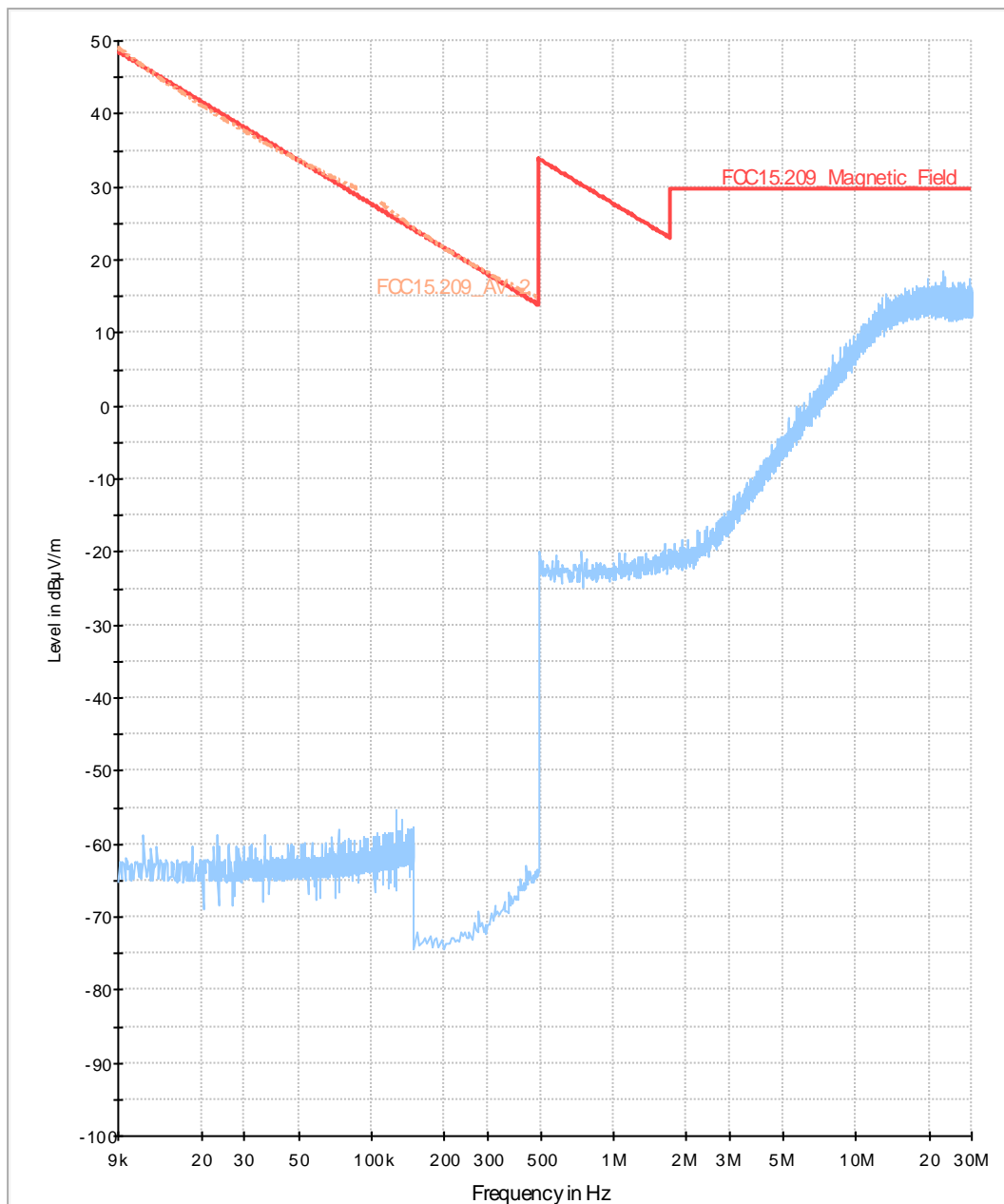
Test description:  
Test site and distance:  
Measured sides of EUT:  
Rec. antenna (pre-scan):  
Turntable step:  
Used filter:  
Test specification.:

Magnetic Fieldstrength Measurement related to 3 m distance  
Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance  
front, right, rear, left  
height 1.00 m, parallel and 90° to EUT polarisation  
90° during pre-scan  
bypass  
FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:  
Operating conditions:  
Power during tests:  
Comment 1:

Sha  
TX-on  
full loaded batteries  
FDD IV 1413; REB71 UW (CER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

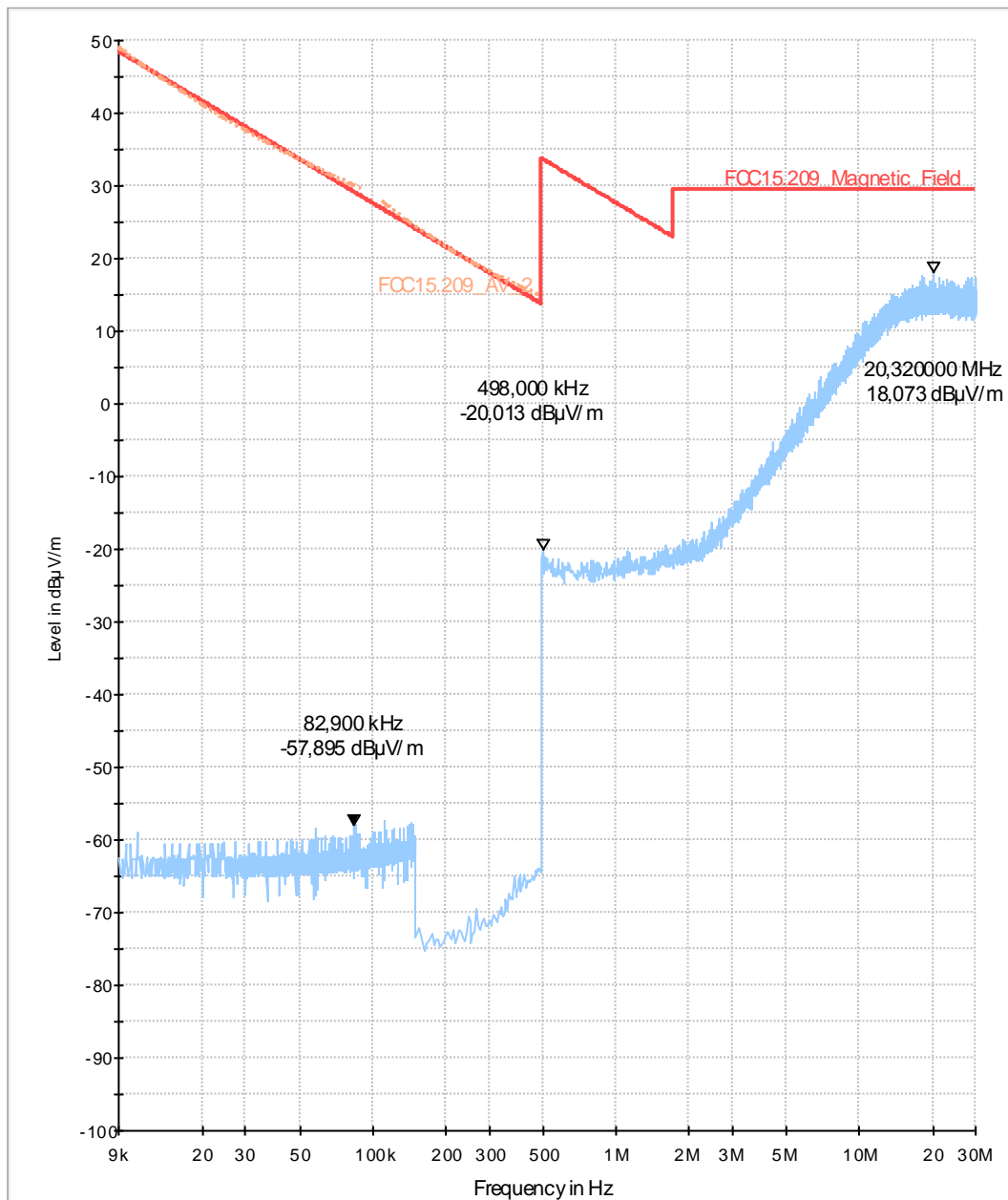
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. c\_3.19

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
Operator:	Sha
Operating conditions:	TX
Power during tests:	full loaded batteries
Comment 1:	FDD IV 1513; REB71 UW (GER-41250-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

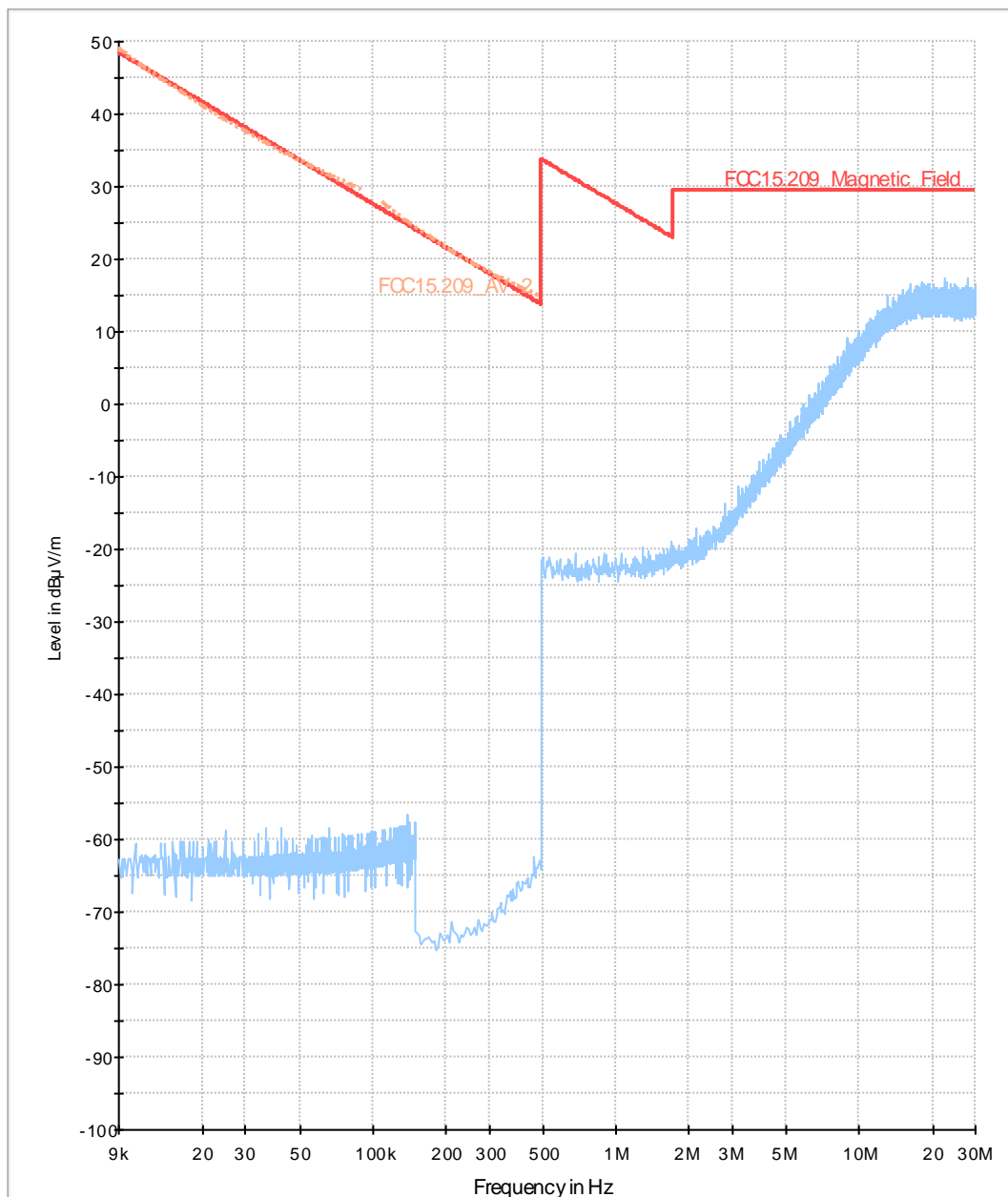
1.9.5. Spurious emissions radiated – FDD Band V Voice Mode

Diagram No. b\_3.01

Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLA
Operating conditions:	UMTS FDD 5 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 4132

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

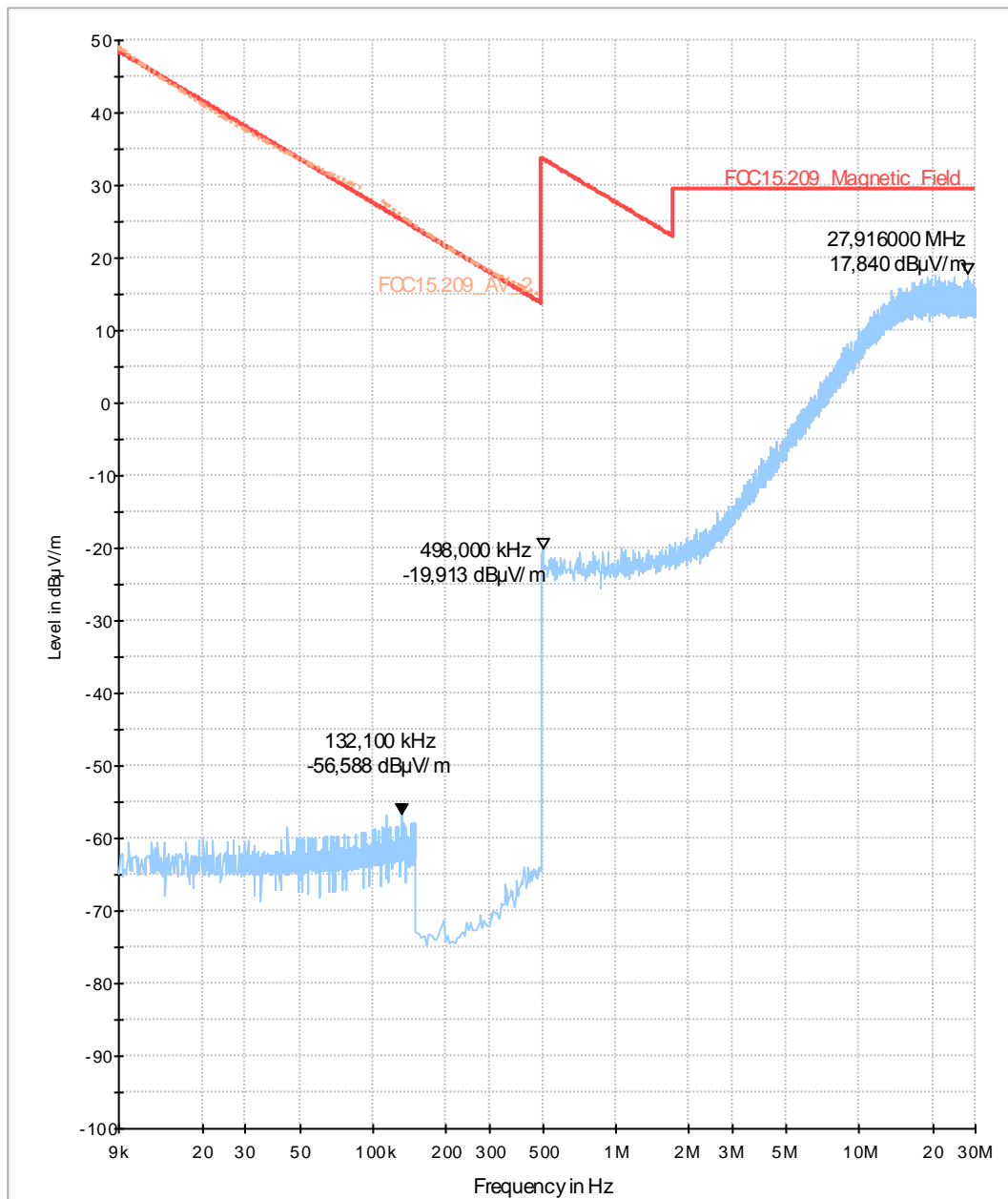


### Diagram No. b\_3.02

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLa
Operating conditions:	UMTS FDD 5 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 4182

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

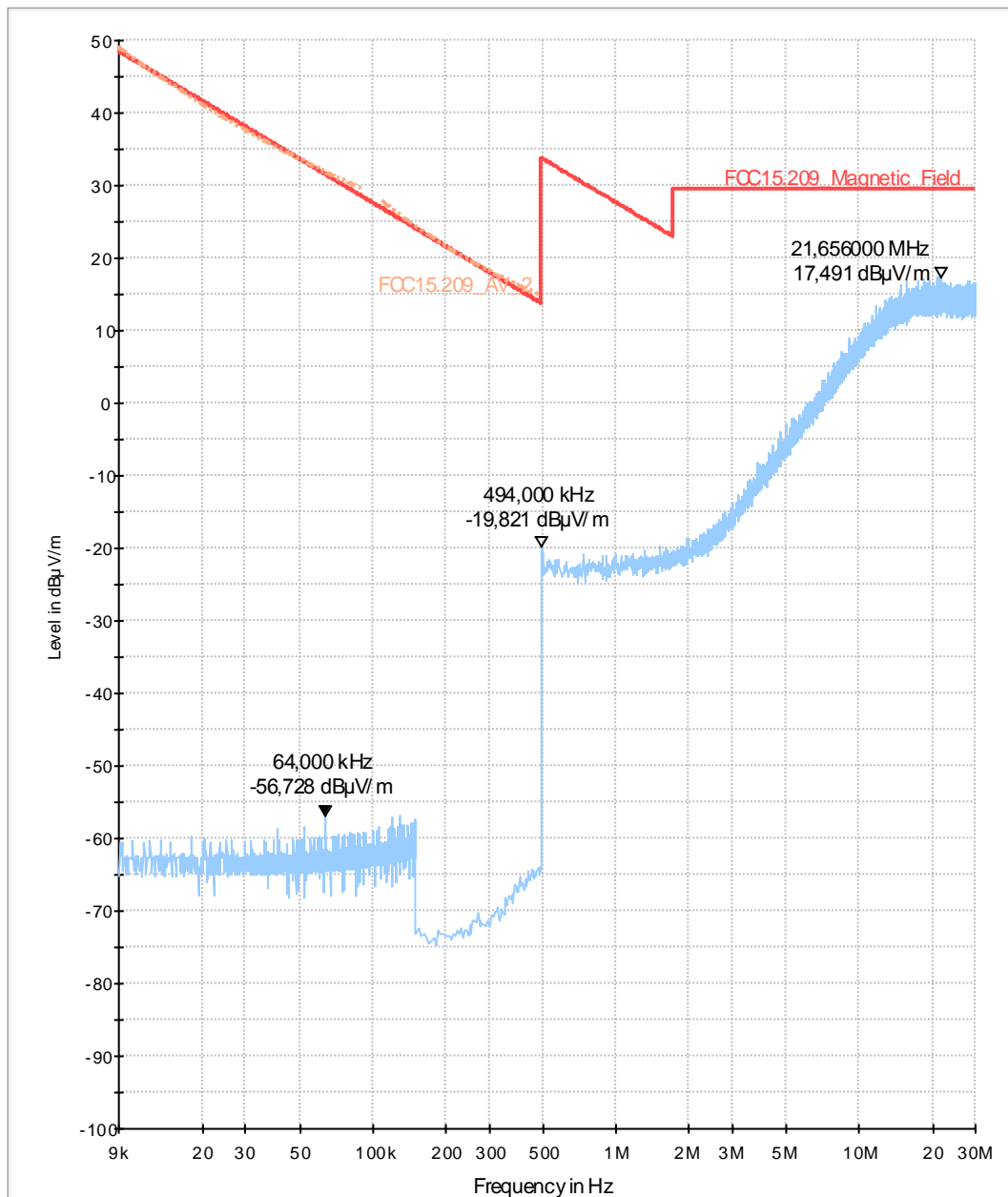
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. b\_3.03

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209
EUT:	REA71UW rev 2
Operator:	HLA
Operating conditions:	UMTS FDD 5 (voice) TX-on
Power during tests:	full loaded batteries
Comment 1:	Channel 4233

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

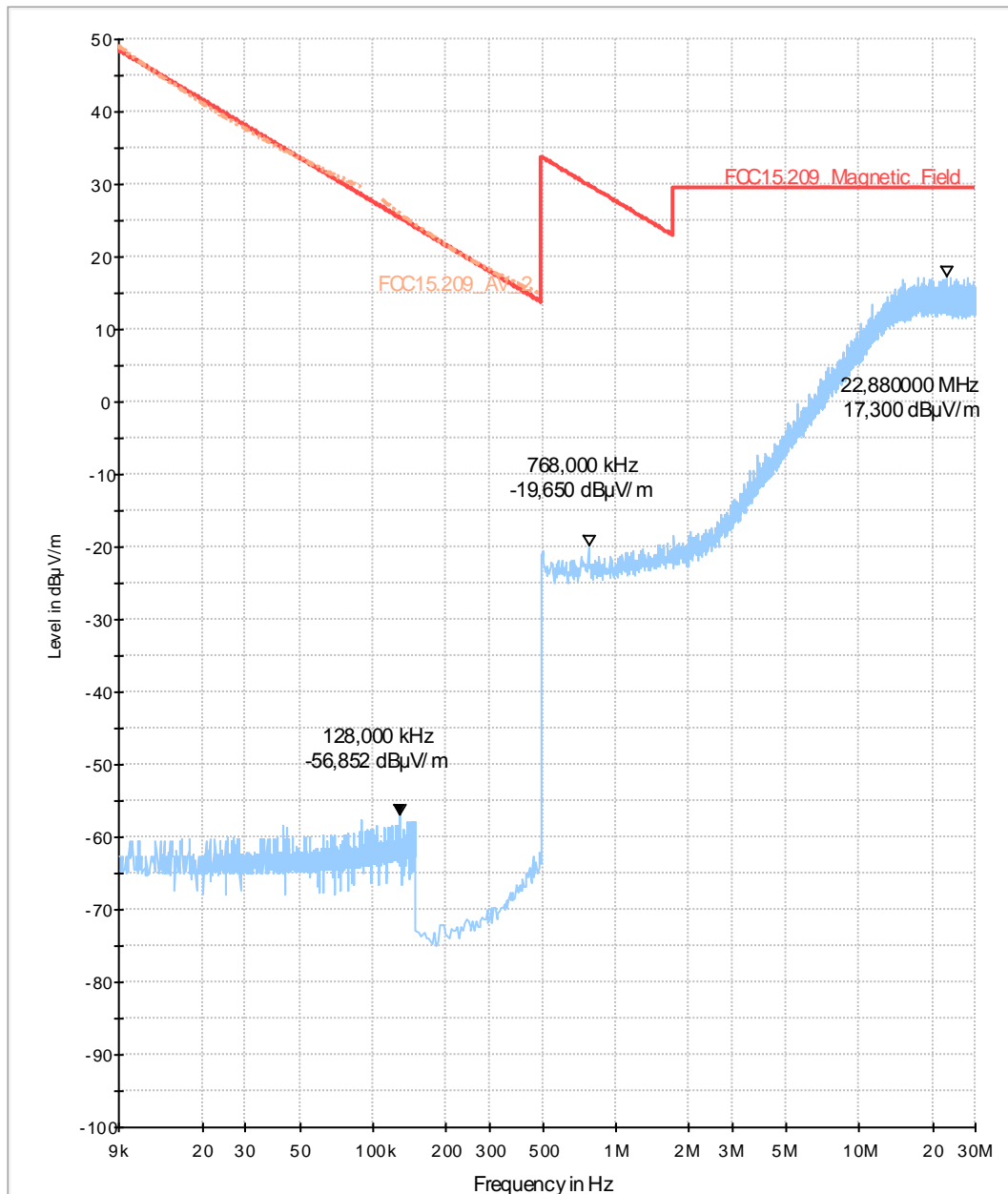
### 1.9.6. Spurious emissions radiated – FDD Band V HSUPA

## Diagram No. b\_3.14

#### Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD V (low channel= 4132); REA71 UW (CER-41251-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

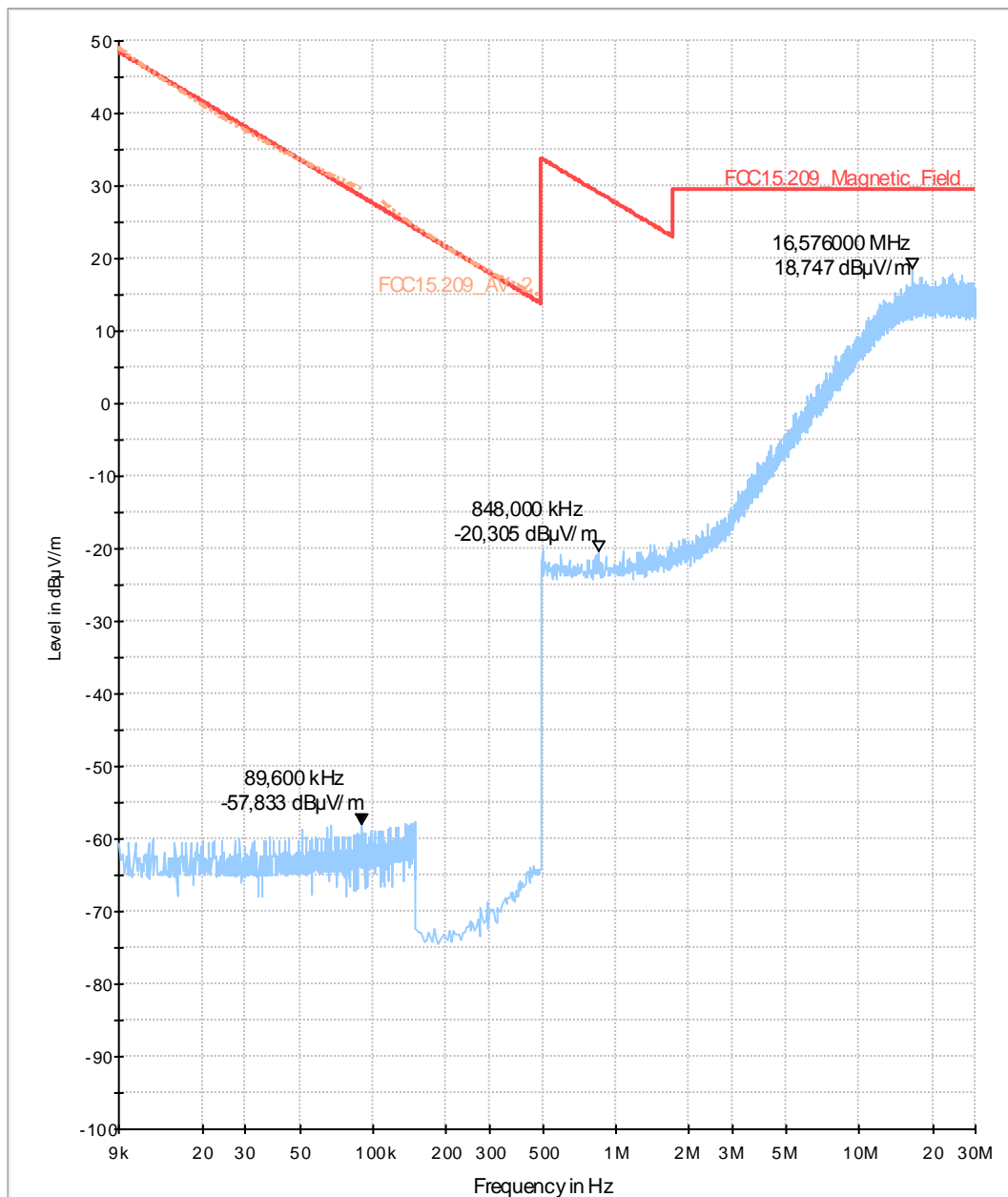
Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

### Diagram No. b\_3.15

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD V (middle channel= 4182); REA71 UW (CER-41251-...)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

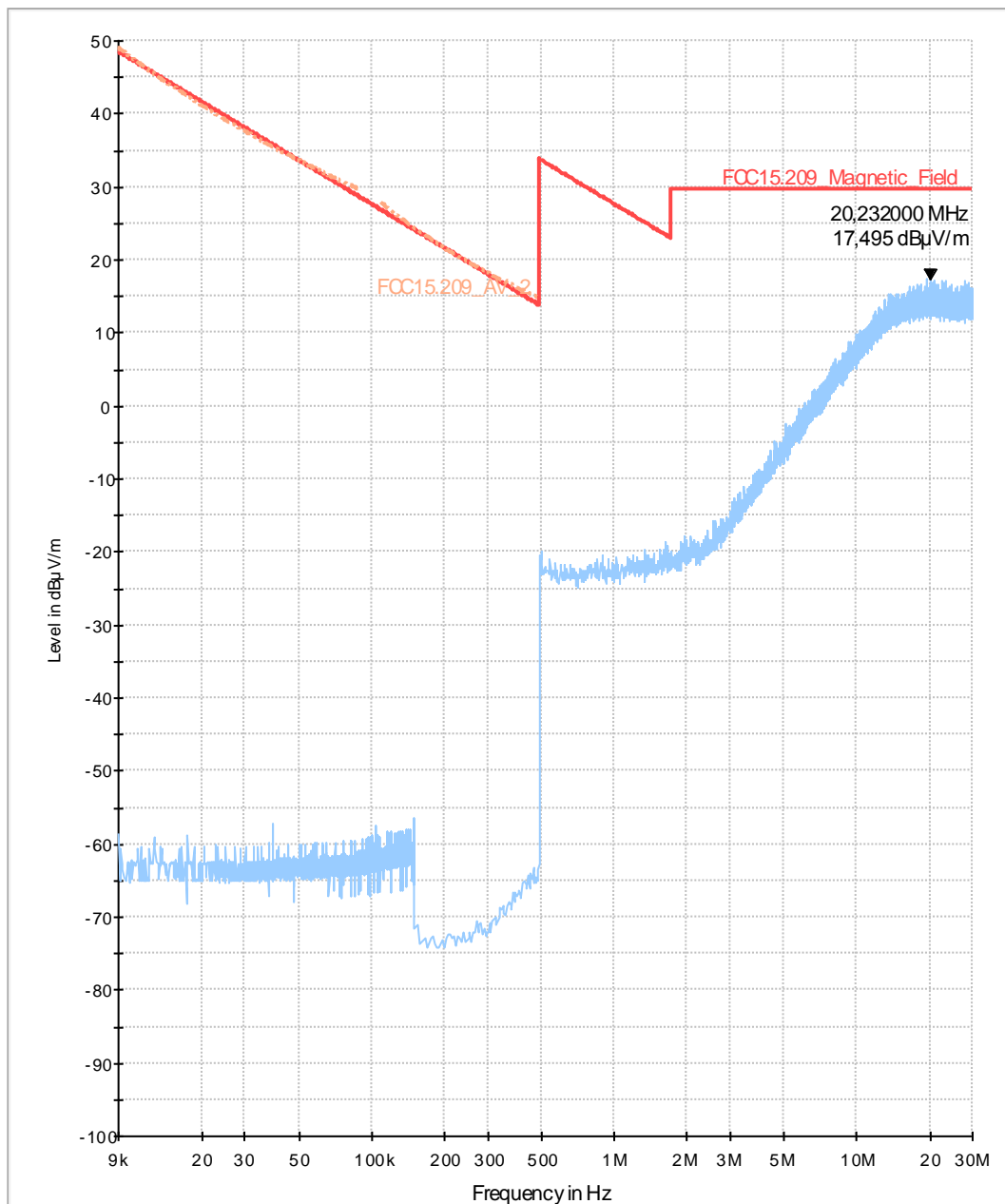


### Diagram No. b\_3.16

**Common Information**

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) + mobile floor absorbers and 3m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	FDD V (high channel= 4233); REA71 UW (CER-41251-..)

FCC15.209\_magn hor+vert



## EMI Auto Test Template: FCC15.209\_magn hor+vert

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: -100 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1  
 Polarization: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Limit Line #2: FCC15.209\_AV\_2  
 Peak Search: 20 dB , Maximum Results: 10  
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Adjustment:  
 Antenna height: Adjustment with full Range , Measuring Speed = 1  
 Turntable position: Adjustment with full Range , Measuring Speed = 3  
 Template for Single Meas.: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 500 kHz	4 kHz	PK+	10 kHz	0,01 s	0 dB
500 kHz - 30 MHz	4 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:  
 Template for Single Meas.: 02\_FCC\_MG\_FELD\_QP\_final\_H&V\_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:  
 Report Template: FCC15\_209\_magn\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

Actions:  
 Preview Measurements: Before  
 Notify: "Achtung: es gibt Frequenzbereich mit AVERAGE detector als Ergebniss..."  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Frequency Zoom 1: Before  
 Notify: "EUT funktioniert noch ?"  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'