

Annex 1: Measurement diagrams to  
**TEST REPORT**  
 No.: 18-1-0233801T01a

According to:  
**FCC Regulations**  
 Part 15.109, Class B

**ISED-Regulations**  
 RSS-Gen, Issue 4  
 ICES-003, Issue 6







for

Robert Bosch Car Multimedia GmbH

**AIVIL42P0**

Car Radio with navigation, BT and WLAN

FCC-ID: YBN-AIVIL42P0  
 ISED: 9595A-AIVIL42P0

Laboratory Accreditation and Listings		
 <p>Accredited EMC-Test Laboratory</p>	 <p>Industry Canada            Reg. No.: 3462D-1            Reg. No.: 3462D-2            Reg. No.: 3462D-3</p>	 <p>Voluntary Controls for Electromagnetic Emissions            Reg. No.:            R-4552, C-20009,            T-20006, G-20013</p>
 <p>AUTHORIZED RF LABORATORY</p>	 <p>Lab Code: 20011130-00</p>	 <p>MRA US-EU 0003</p>
accredited according to DIN EN ISO/IEC 17025		
<p align="center"><b>CETECOM GmbH</b>            Laboratory Radio Communications &amp; Electromagnetic Compatibility            Im Teelbruch 116 • 45219 Essen • Germany            Registered in Essen, Germany, Reg. No.: HRB Essen 8984            Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964            E-mail: info@cetecom.com • Internet: www.cetecom.com</p>		
Laboratory Accreditation and Listings		

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# 1. Measurement diagrams

## 1.1. General Limit - Radiated field strength emissions, 30 MHz - 1 GHz

### 3.01\_FCC\_15B\_laying

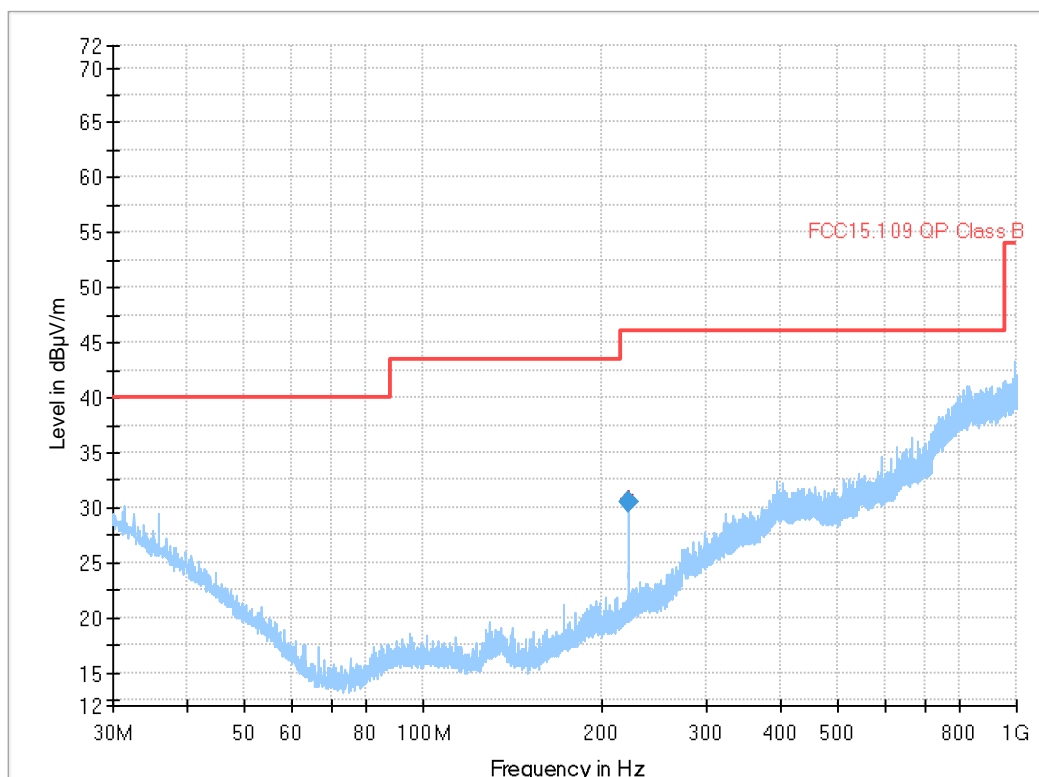
Test description:	07.11.2018 Page 1 of 1 Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.109 Class B; RSS-Gen. Issue 4
Operating mode	GPS RX, FM/AM RX
Operator:	TFR
Operating conditions:	Humidity: 42%rH; Temperature: 20°C

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
Model:	AIVIL42P0
Type:	Car Radio with Navigation; BT and WLAN

EUT:	
HW version:	001
SW version:	X316 (0536)
Serial number:	0007510
Connected Interfaces:	18-1-0100101S15
Power Supply:	13.5VDC
Comments:	-

Full Spectrum



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
221.760000	30.45	46.00	15.55	1000.0	120.000	105.0	H	82.0	12.4

### 3.01\_FCC\_15B\_standing

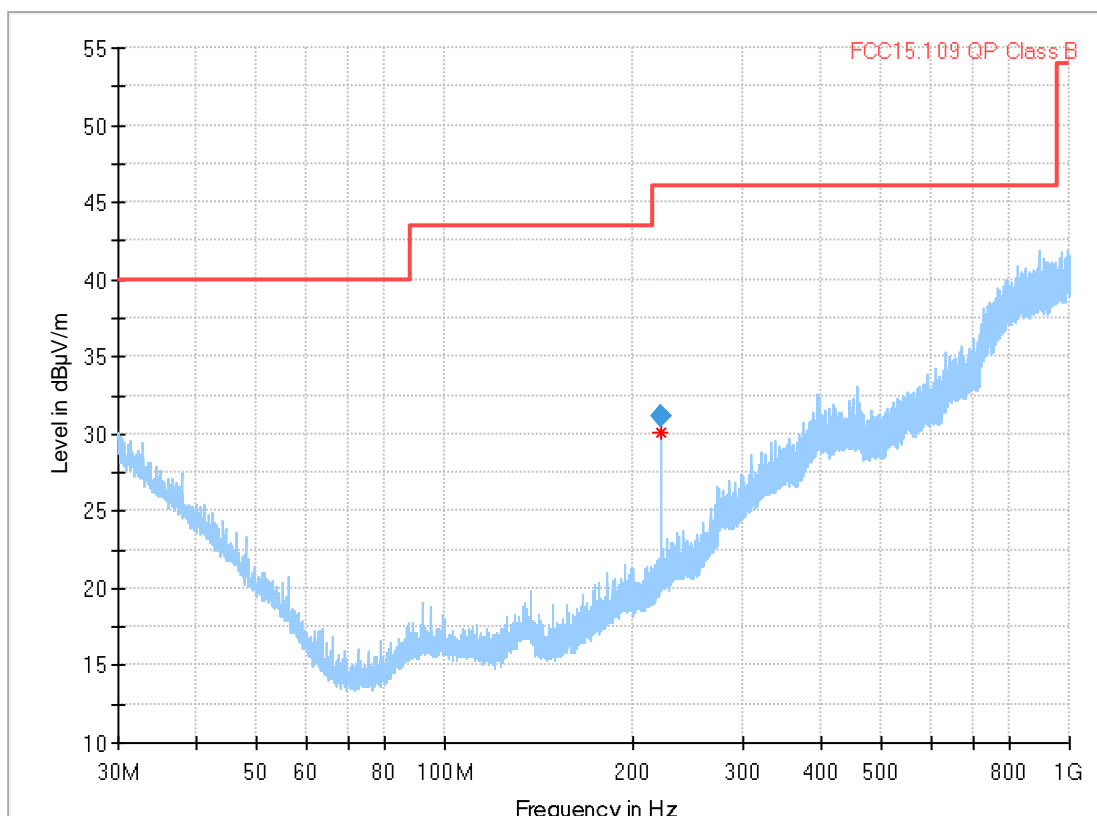
07.11.2018 Page 1 of 1  
 Electric Field Strength Measurement  
 Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 EMC32 V9.25.0  
 Used filter: not used  
 Technical Data: please see page 2 for detailed data of measurement setup  
 Test specification.: FCC 15.109 Class B; RSS-Gen. Issue 4  
 Operating mode GPS RX, FM/AM RX  
 Operator: TFr  
 Operating conditions: Humidity: 42%rH; Temperature: 20°C

#### EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH  
 Model: AIVIL42P0  
 Type: Car Radio with Navigation; BT and WLAN

EUT:  
 HW version: 001  
 SW version: X316 (0536)  
 Serial number: 0007510  
 Connected Interfaces: 18-1-0100101S15  
 Power Supply: 13.5VDC  
 Comments: -

Full Spectrum



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Marginal (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
221.760000	31.11	46.00	14.89	1000.0	120.000	121.0	H	252.0	12.4

## 1.2. General Limit - Radiated field strength emissions, above 1 GHz

### 4.01a\_FCC\_15B\_1-18GHz

#### Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	GPS RX, FM/AM RX
Equipment Class:	Class B
Environmental Conditions:	Humidity: 40%rH; Temperature: 19,7°C
Operator:	MKh

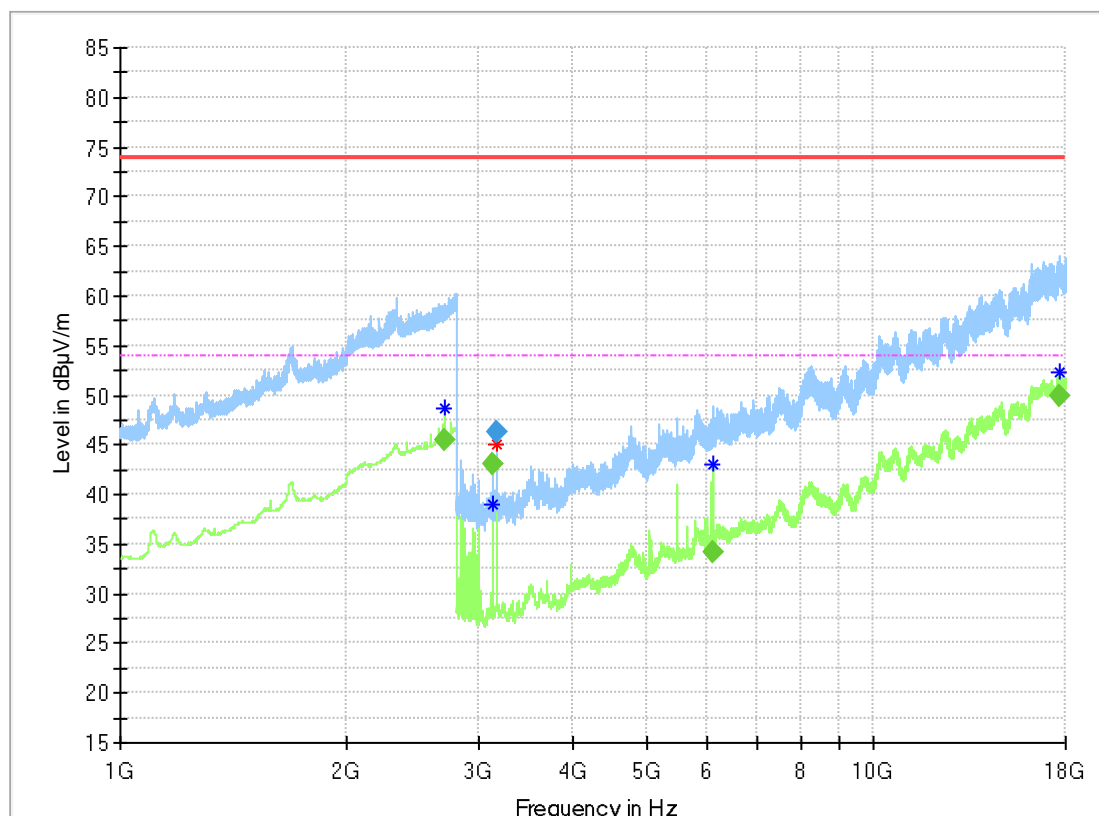
#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
Model:	AIVIL42P0
Type:	Car Radio with Navigation; BT and WLAN

EUT:	
HW version:	001
SW version:	X316 (0536)
Serial number:	0007510
Connected Interfaces:	18-1-0100101S15
Power Supply:	13.5VDC
Comments:	-

#### Full Spectrum

Full Spectrum



**Final Result**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2701.620000	---	45.42	54.00	8.58	100.0	1000.000	H	222.0	0.0	37.2
3118.300000	---	43.00	54.00	11.00	100.0	1000.000	V	156.0	0.0	-0.5
3168.020000	46.36	---	74.00	27.64	100.0	1000.000	H	214.0	0.0	-0.3
6137.700000	---	34.26	54.00	19.74	100.0	1000.000	V	243.0	0.0	7.9
17661.940000	---	49.95	54.00	4.05	100.0	1000.000	V	348.0	0.0	26.0

## 4.01b\_FCC\_15B\_18-26GHz

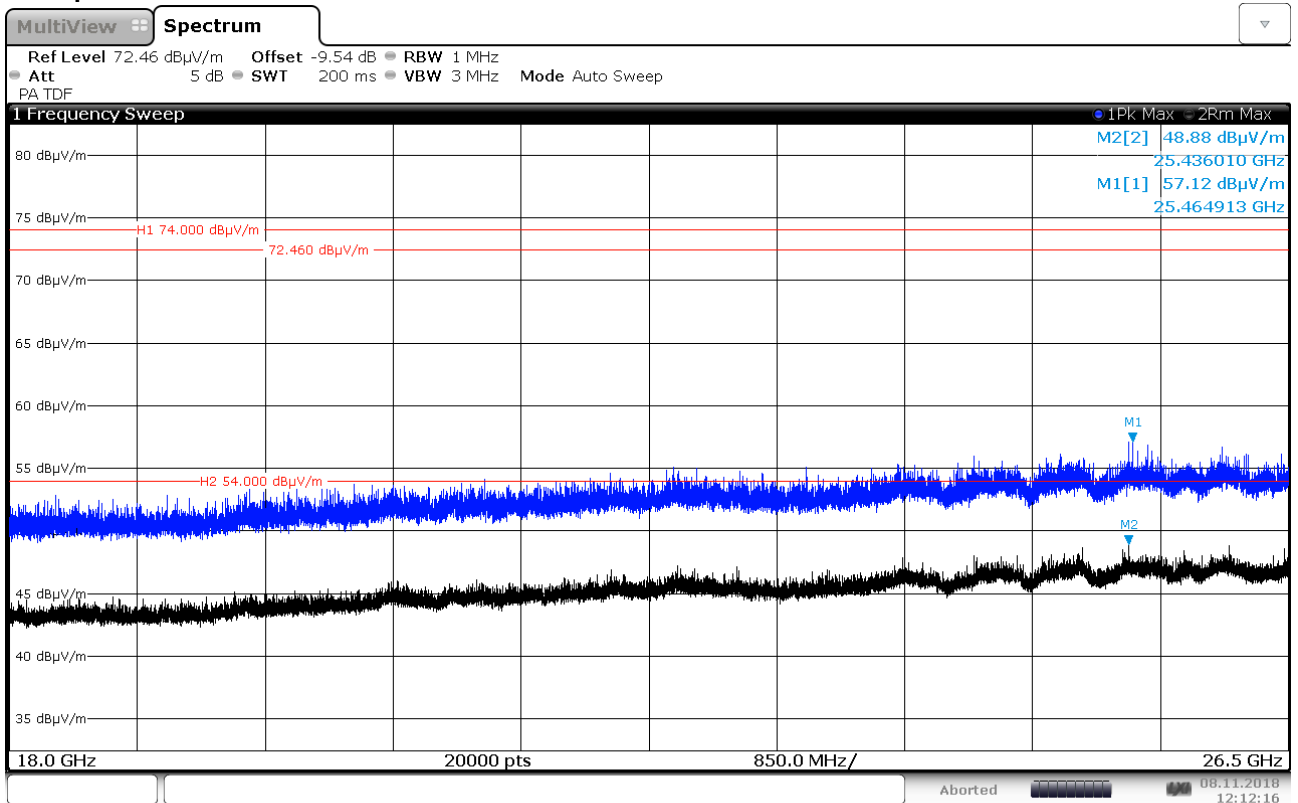
### Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Radio Lab 2
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	GPS RX, FM/AM RX
Equipment Class:	Class B
Environmental Conditions:	Humidity: 40%rH; Temperature: 19,7°C
Operator:	MKh

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
Model:	AIVIL42P0
Type:	Car Radio with Navigation; BT and WLAN
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EUT:	
HW version:	001
SW version:	X316 (0536)
Serial number:	0007510
Connected Interfaces:	18-1-0100101S15
Power Supply:	13.5VDC
Comments:	-

### Full Spectrum



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