

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

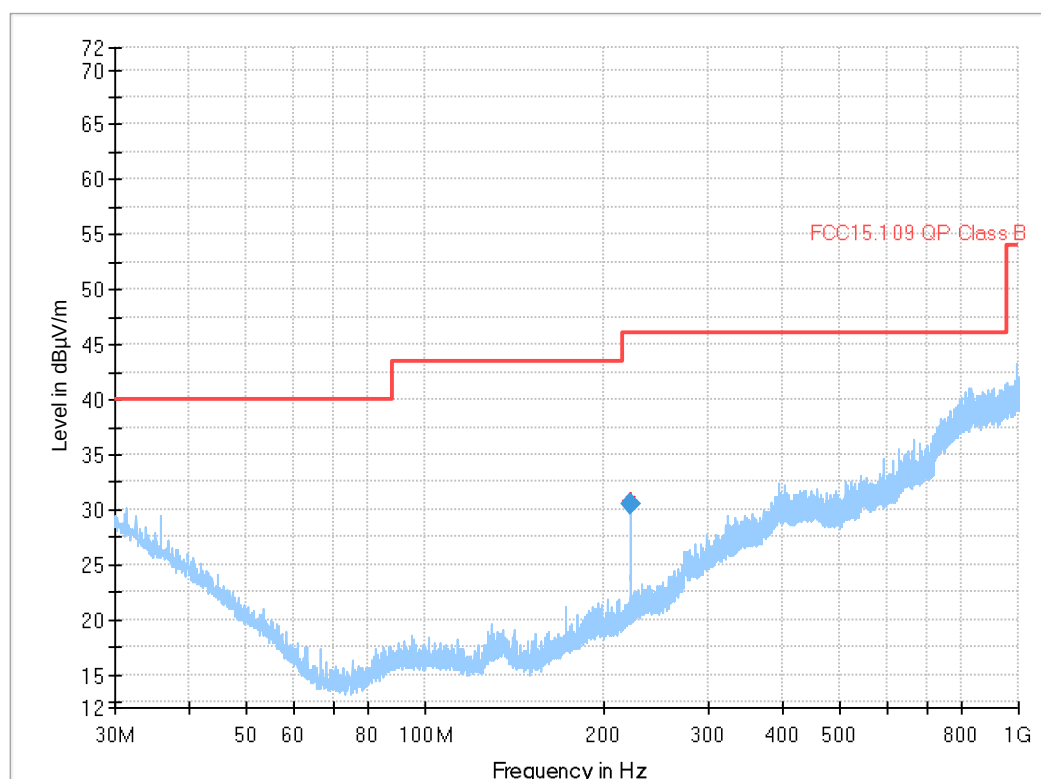
Test description: Electric Field Strength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V9.25.0
 Used filter: not used
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: 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: 001
 HW version: X316 (0536)
 SW version: 0007510
 Serial number: 18-1-0100101S15
 Connected Interfaces: 13.5VDC
 Power Supply: -
 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

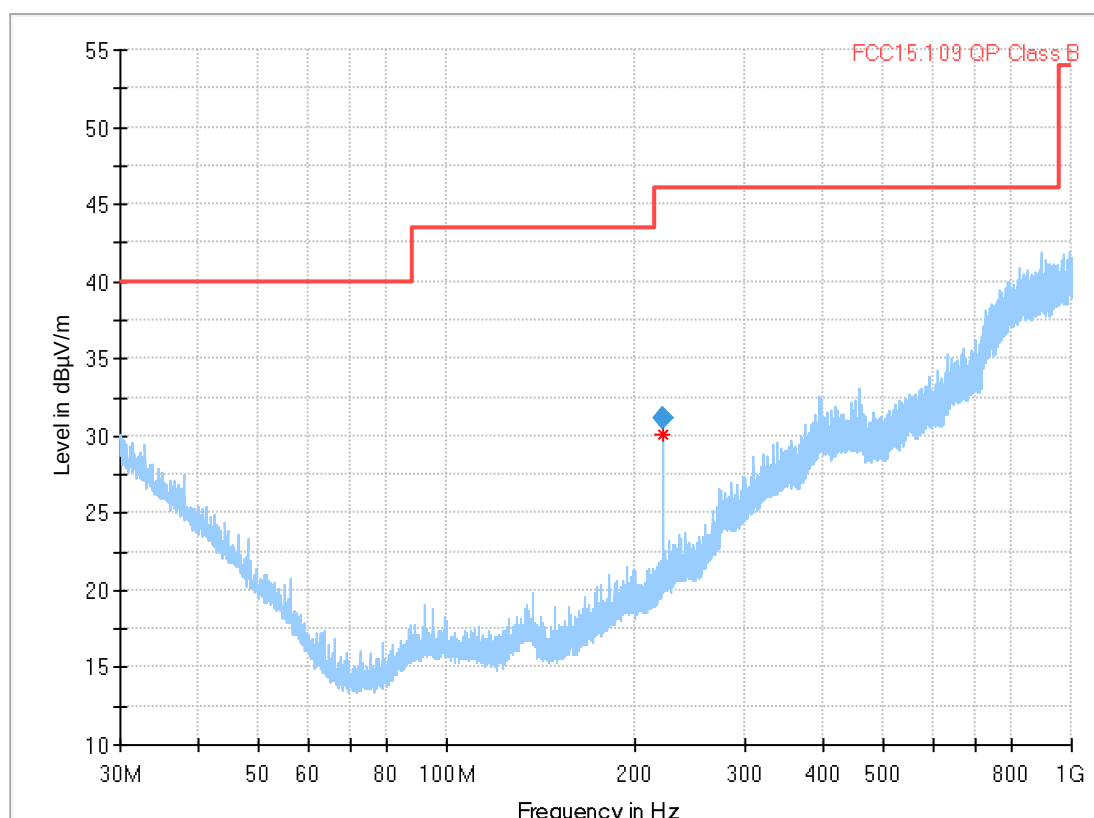
Test description: 07.11.2018 Page 1 of 1
 Test site and distance: Electric Field Strength Measurement
 Version of Testsoftware: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Used filter: EMC32 V9.25.0
 Technical Data: not used
 Test specification.: please see page 2 for detailed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

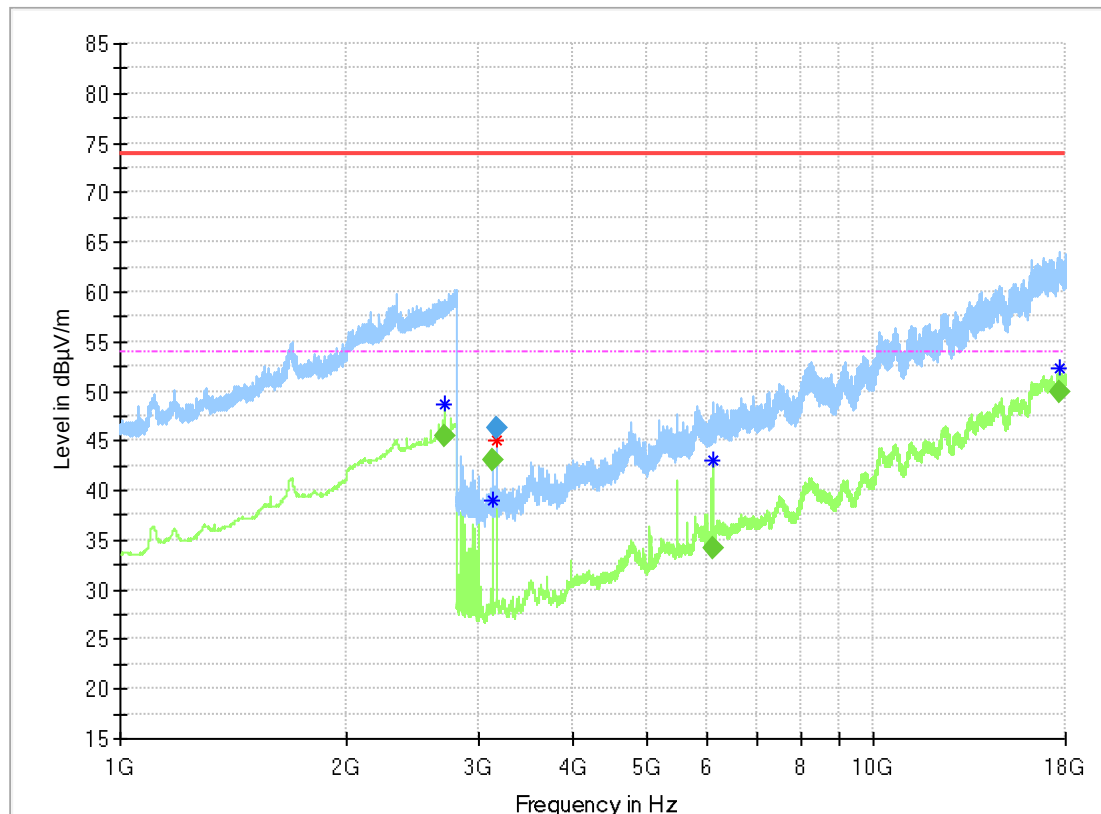
EUT Information

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 μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margi n (dB)	Meas . Time	Bandwid th (kHz)	Pol	Azimu t h (deg)	Elevatio n (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

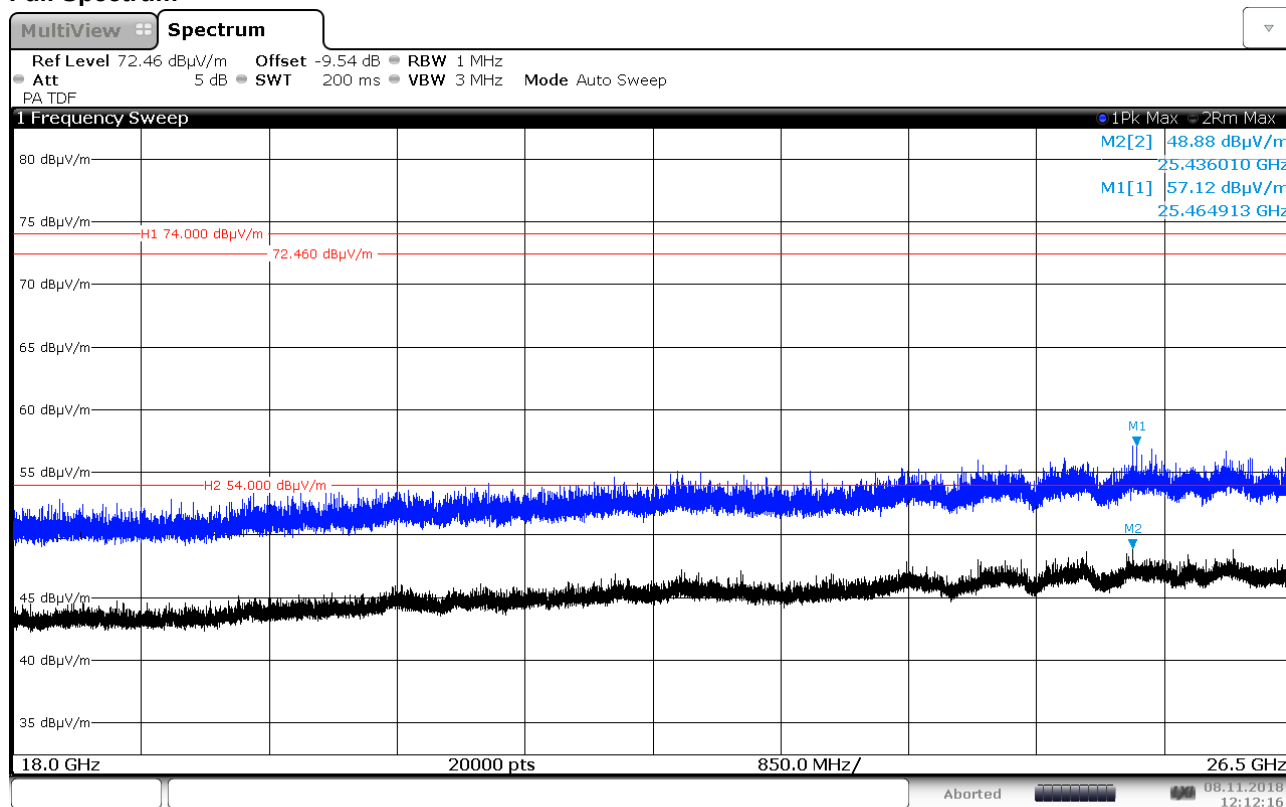
Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Radio Lab 2
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	GPS RX, FM/AM RX
Equipment Class:	Class B
Environmental Conditions:	Humidity: 40%rH; Temperature: 19,7°C
Operator: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

EUT Information

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

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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