

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 18-1-0018601T03a

According to:

FCC Regulations

Part 15.205
 Part 15.209
 Part 15.407

ISED-Regulations

RSS-Gen, Issue 4
 RSS-247, Issue 2

for

Robert Bosch Car Multimedia GmbH

AIVICMBF0

FCC-ID: YBN-AIVICMBF0
 IC: 9595A-AIVICMBF0
 PMN: AIVICMBF0
 HVIN: AIVICMBF0







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

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1. Measurement diagrams

1.1. Radiated magnetic field measurements below 30 MHz

2.04_a-mode_6Mbps_ch100||1

Common Information

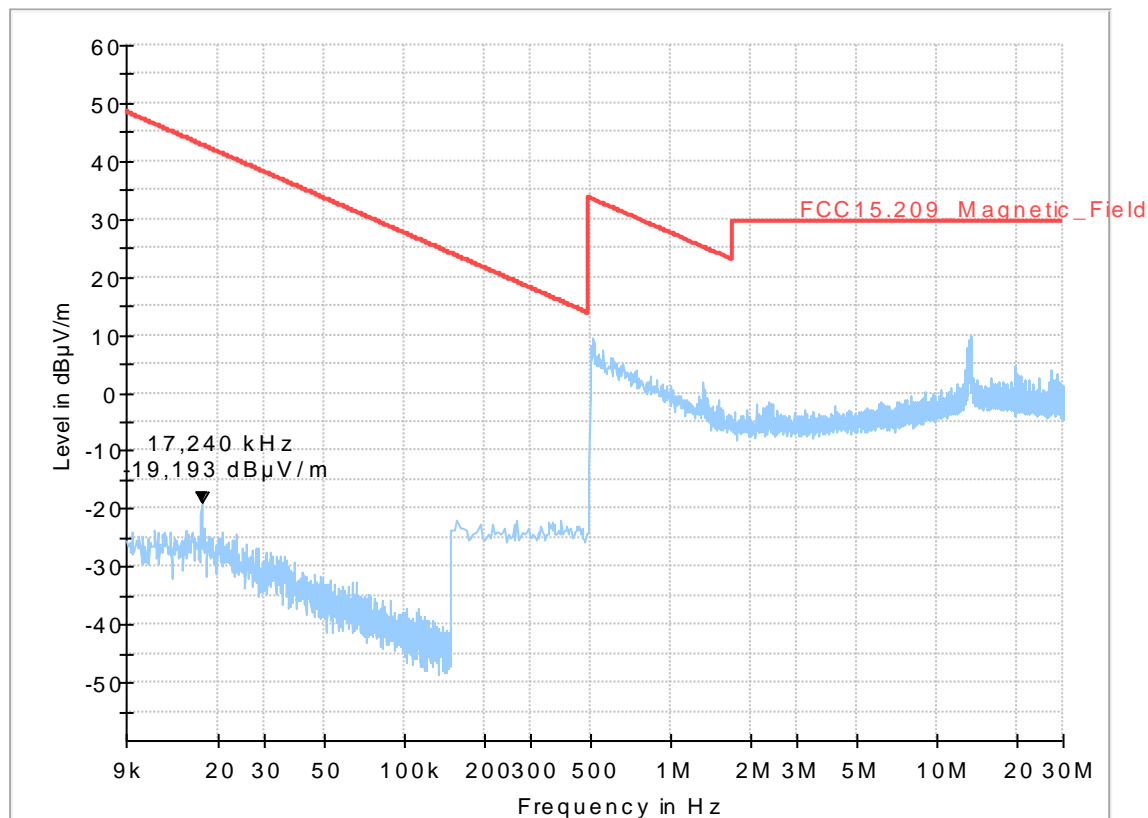
Test Description:	Radiated field strength (f<30MHz)
Test site and distance	Ref.-Nr.441, Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware	EMC32 V9.25.0
Distance Correction	used accord. table, pls. see test report
Technical Data	please see page 2 for detailed data of measurement setup
Rec.Antenna(pre-scan)	height = 1m , polarisation according to pre-scan results
Used filter	bypass
Test specification	FCC 15.209/15.205; RSS-Gen., Issue 4
Operator	DLe
Operating mode	WLAN 5GHz a-mode 6Mbps ch100
operating conditions	Humidity: 48%rH; Temperature: 20°C

EUT Information

EUT Name:	AIVICMFBO
Manufacturer:	Robert Bosch Car Multimedia
Serial Number:	5603
Hardware Rev:	001
Software Rev:	0507
Comment:	

Full Spectrum

Full Spectrum



1.2. Radiated electric field measurement 30 MHz to 1 GHz

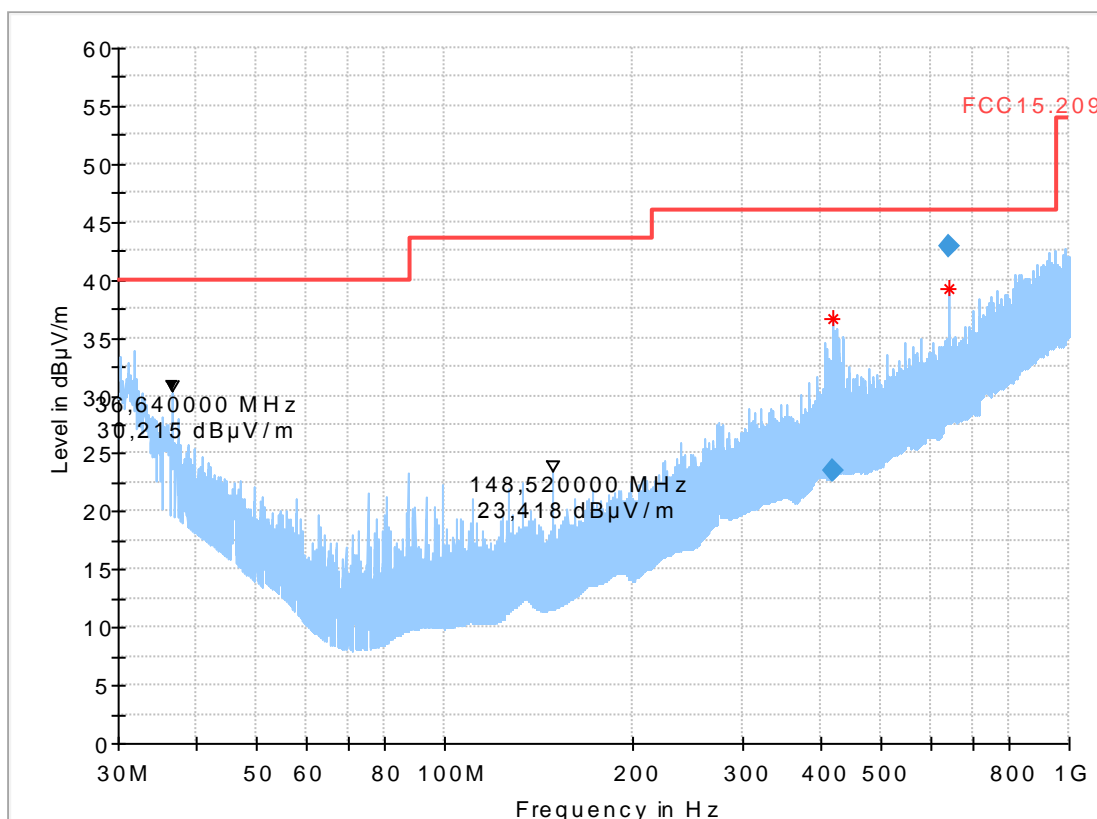
Diagram No. 3.04_a-mode_6Mbps_ch100

Test description:	16.03.2018 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
Distance correction:	V9.25.00
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	JVo
Power during tests:	WLAN 5GHz a-mode 6Mbps ch100
	Humidity: 48%rH; Temperature: 20°C

EUT Information

EUT Name:	AIVICMFBO
Manufacturer:	Robert Bosch Car Multimedia
Serial Number:	5603
Hardware Rev:	001
Software Rev:	0507
Comment:	

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)
419.056000	23.57	46.00	22.43	1000.0	120.000	351.0	V	124.0	18.8
643.496000	42.92	46.00	3.08	1000.0	120.000	113.0	H	109.0	23.2

1.3. Radiated electric field measurement above 1 GHz

4.04a_a-mode_6Mbps_ch100

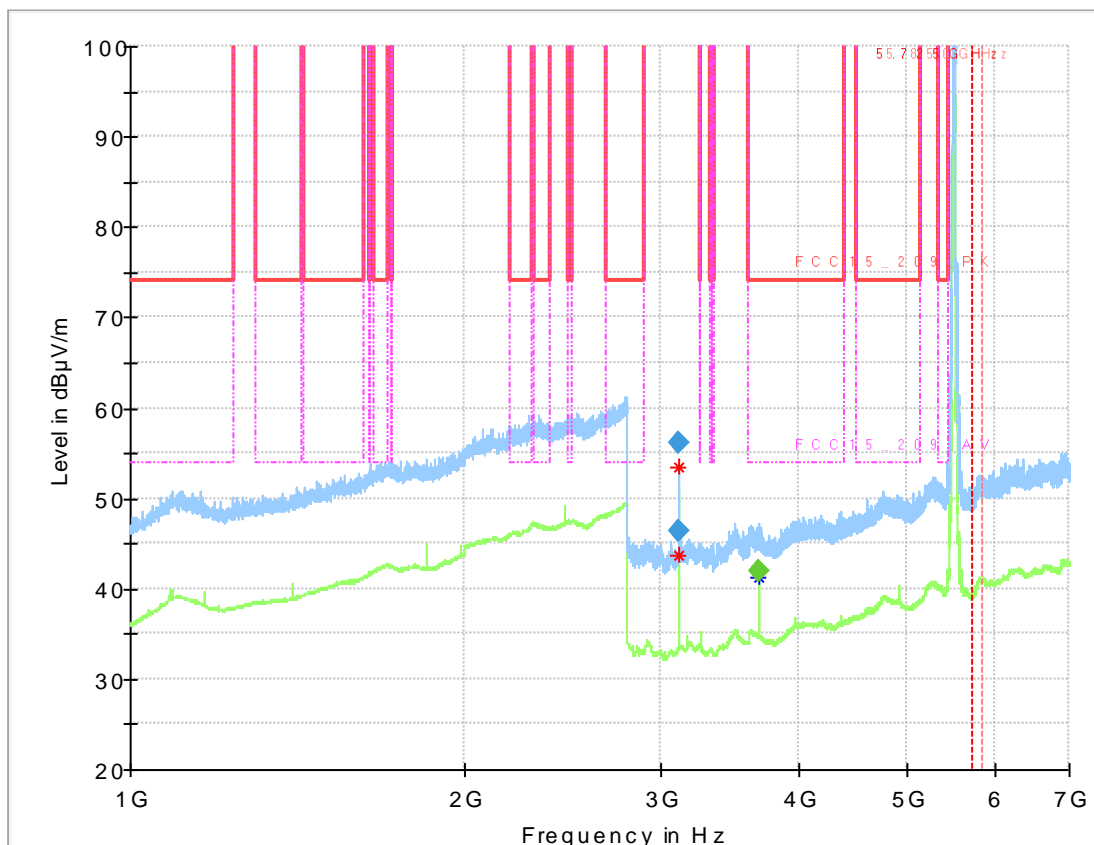
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
 Antenna polarisation: horizontal/vertical

Operation mode: WLAN 5GHz | a-mode | 6Mbps | ch100
 Operator Name: SLo

EUT Information

EUT Name: AIVICMFBO
 Manufacturer: Robert Bosch Car Multimedia
 Serial Number: 5603
 Hardware Rev: 001
 Software Rev: 0507
 Comment:



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3118.350000	46.46	---	150.00	100.0	1000.000	155.0	H	240.0	45.0	5.7
3118.400000	56.09	---	150.00	100.0	1000.000	155.0	V	172.0	0.0	5.7
3673.450000	---	41.86	54.00	100.0	1000.000	155.0	V	97.0	0.0	6.5

Diagram No.: 4.04b_WLAN_5GHz_a-mode_6Mbps_ch100

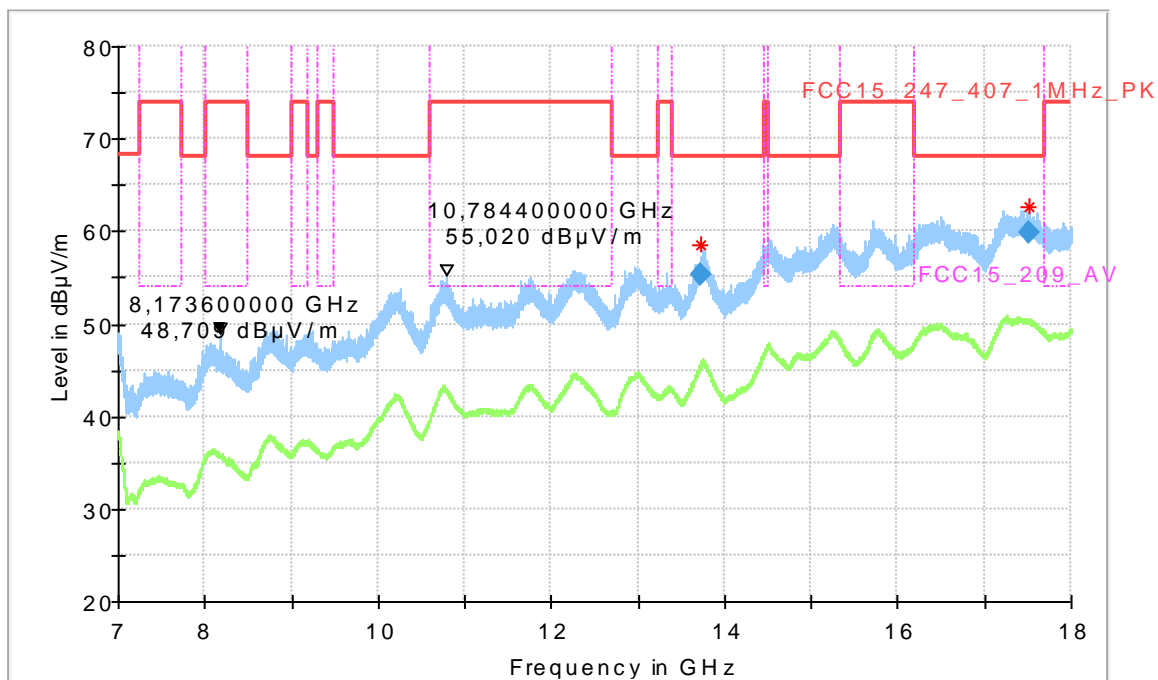
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Software Version:	#Ver
Operation mode:	WLAN 5GHz a-mode 6Mbps ch100
Operator Name:	JVoigt

EUT Information

EUT Name:	AIVICMFBO
Manufacturer:	Robert Bosch Car Multimedia
Serial Number:	5603
Hardware Rev:	001
Software Rev:	0507
Comment:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
13729.000000	55.34	68.00	12.66	100.0	1000.000	155.0	H	47.0	90.0
17521.000000	59.86	68.00	8.14	100.0	1000.000	155.0	H	255.0	90.0

1.4. Radiated band edge compliance

Diagram No.: 9.07_BE_low_WLAN_5_a-mode_6Mbps_ch100

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Software Version:	#Ver
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	WLAN 5GHz, low, a-mode, 6Mbps, ch100,

EUT Information

EUT Name:	AIVICMFBO
Manufacturer:	Robert Bosch Car Multimedia
Serial Number:	5603
Hardware Rev:	001
Software Rev:	0507
Comment:	

Full Spectrum

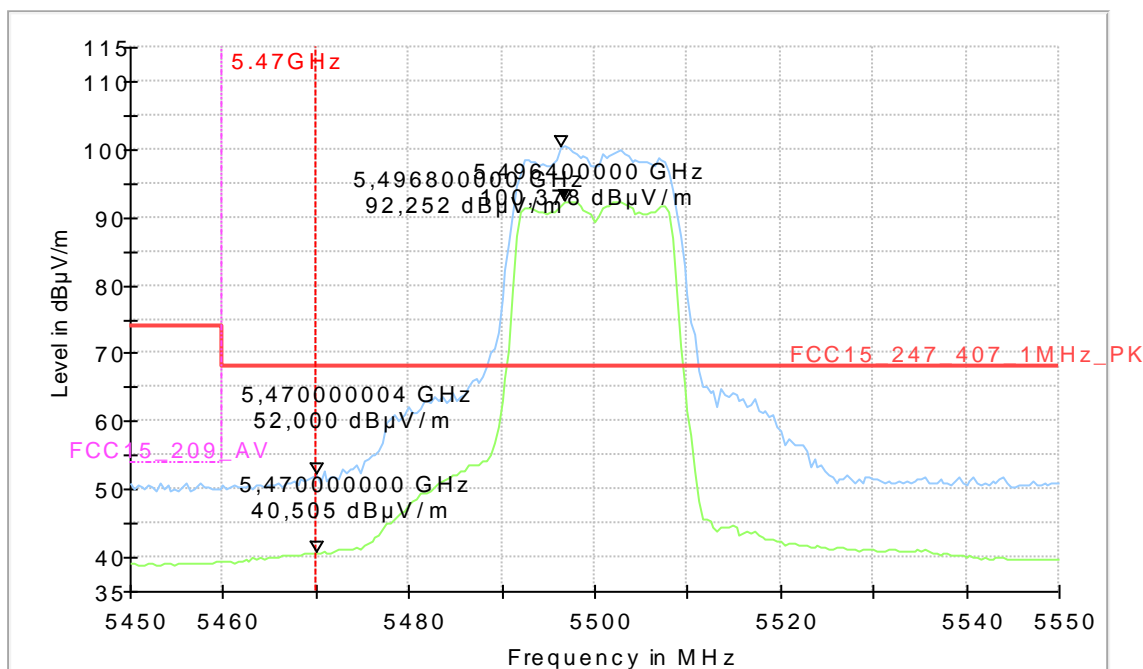


Diagram No.: 9.08_BE_high_WLAN_5_a-mode_6Mbps_ch140

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Software Version:	#Ver
Operation mode:	TX, continuous
Operator Name:	JVoigt
Comment:	WLAN 5GHz, high, a-mode, 6Mbps, ch140,

EUT Information

EUT Name:	AIVICMFBO
Manufacturer:	Robert Bosch Car Multimedia
Serial Number:	5603
Hardware Rev:	001
Software Rev:	0507
Comment:	

Full Spectrum

