

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 17-1-0051801T03a

According to:
FCC Regulations
 Part 22, Part 24

for

Daimler Trucks North America

7 620 000 283

CTPDIN

FCC-ID: 2AMIOCTP4465460

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 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 TM Test Lab Lab Code: 20011130-00		
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			

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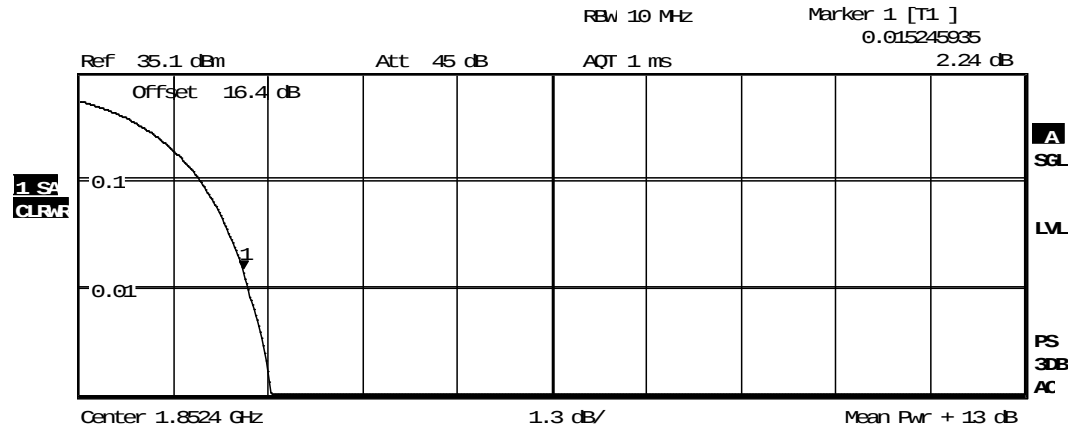
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1. Measurement diagrams

1.1. Peak power output and PAPR-Value

1.1.1. FDD Band 2

Channel 9262



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

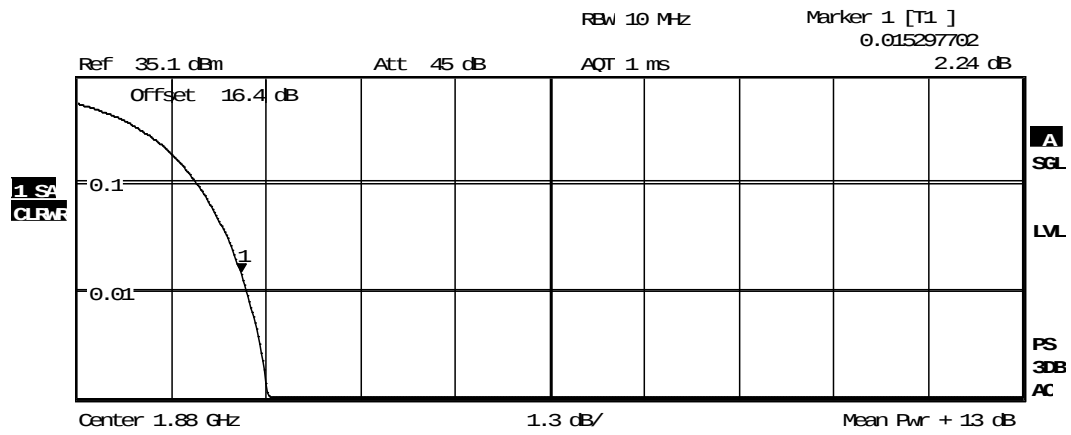
	Trace 1
Mean	22.35 dBm
Peak	25.13 dBm
Crest	2.77 dB

10 %	1.67 dB
1 %	2.33 dB
.1 %	2.65 dB
.01 %	2.75 dB

Date: 24.MAY.2017 17:00:57

Diagram CCDF_Ch_9262

Channel 9400



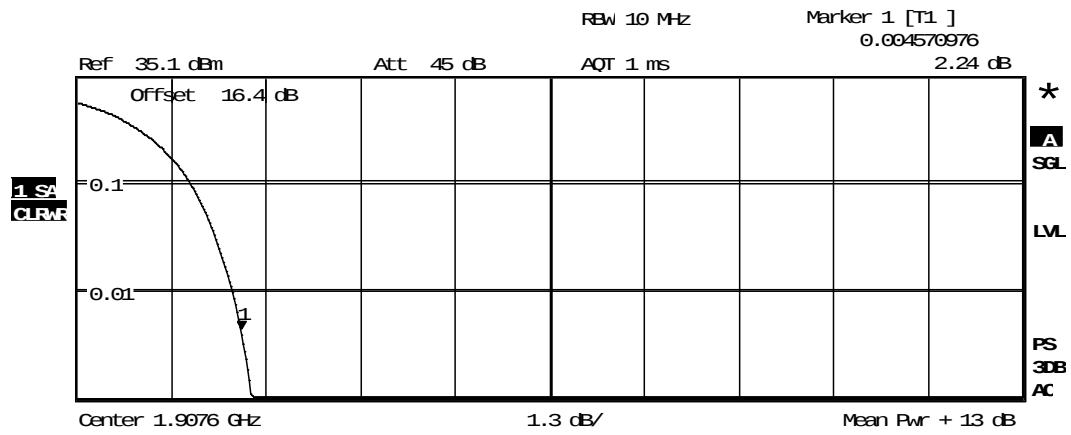
Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1	
Mean	22.54 dBm
Peak	25.36 dBm
Crest	2.82 dB
10 %	1.65 dB
1 %	2.33 dB
.1 %	2.65 dB
.01 %	2.77 dB

Date: 24.MAY.2017 17:01:47

Diagram CCDF_Ch_9400

Channel 9538



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1
Mean 22.24 dBm
Peak 24.88 dBm
Crest 2.65 dB

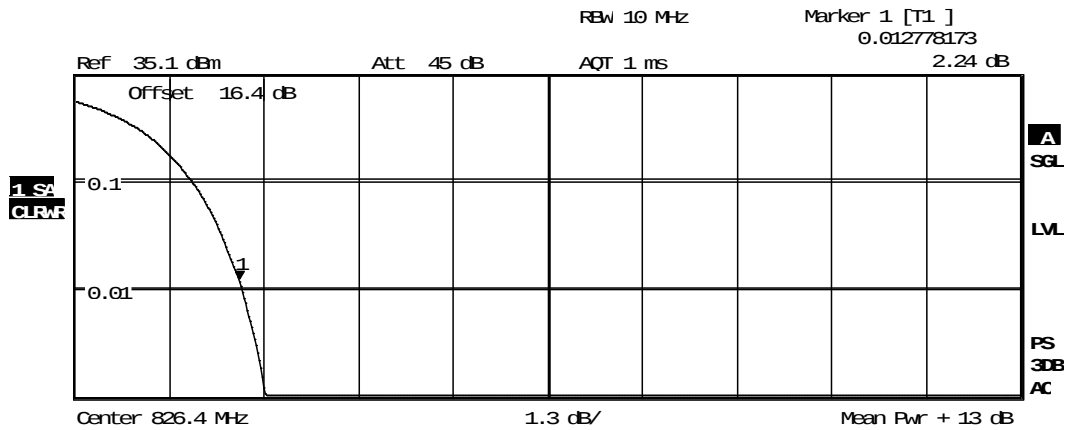
10 % 1.56 dB
1 % 2.15 dB
.1 % 2.40 dB
.01 % 2.56 dB

Date: 24.MAY.2017 17:04:47

Diagram CCDF_Ch_9538

1.1.2. FDD Band 5

Channel 4132



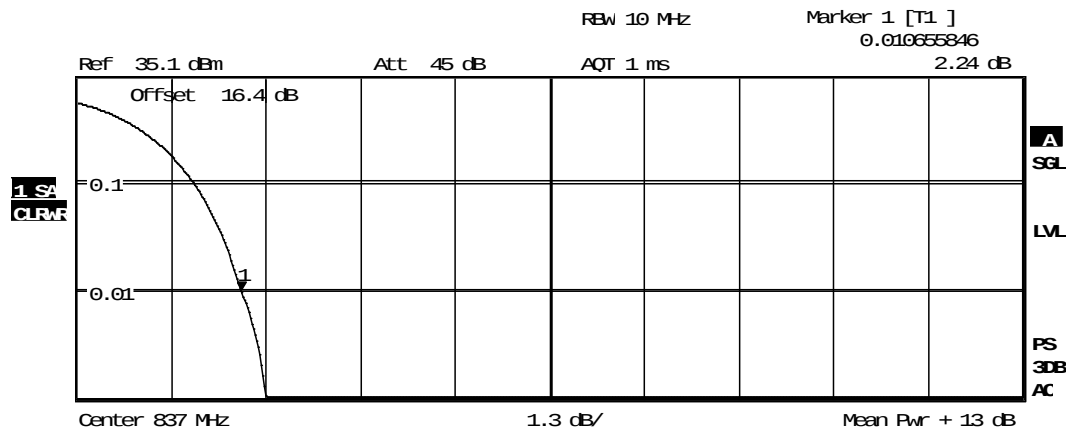
Complementary Cumulative Distribution Function
 NOF samples: 16000, Usable BW: 11.2MHz

Trace 1	
Mean	22.97 dBm
Peak	25.86 dBm
Crest	2.88 dB
10 %	1.60 dB
1 %	2.29 dB
.1 %	2.63 dB
.01 %	2.79 dB

Date: 24.MAY.2017 16:57:50

Diagram CCDF_Ch_4132

Channel 4185



Complementary Cumulative Distribution Function
NOF samples: 16000, Usable BW: 11.2MHz

Trace 1	
Mean	23.17 dBm
Peak	26.08 dBm
Crest	2.91 dB
10 %	1.60 dB
1 %	2.27 dB
.1 %	2.60 dB
.01 %	2.75 dB

Date: 24.MAY.2017 16:58:54

Diagram CCDF_Ch_4185

1.2. Magnetic field emissions radiated (FDD Band II transmitting mode)

2.20a_RSE_R_Ch9262_RMC

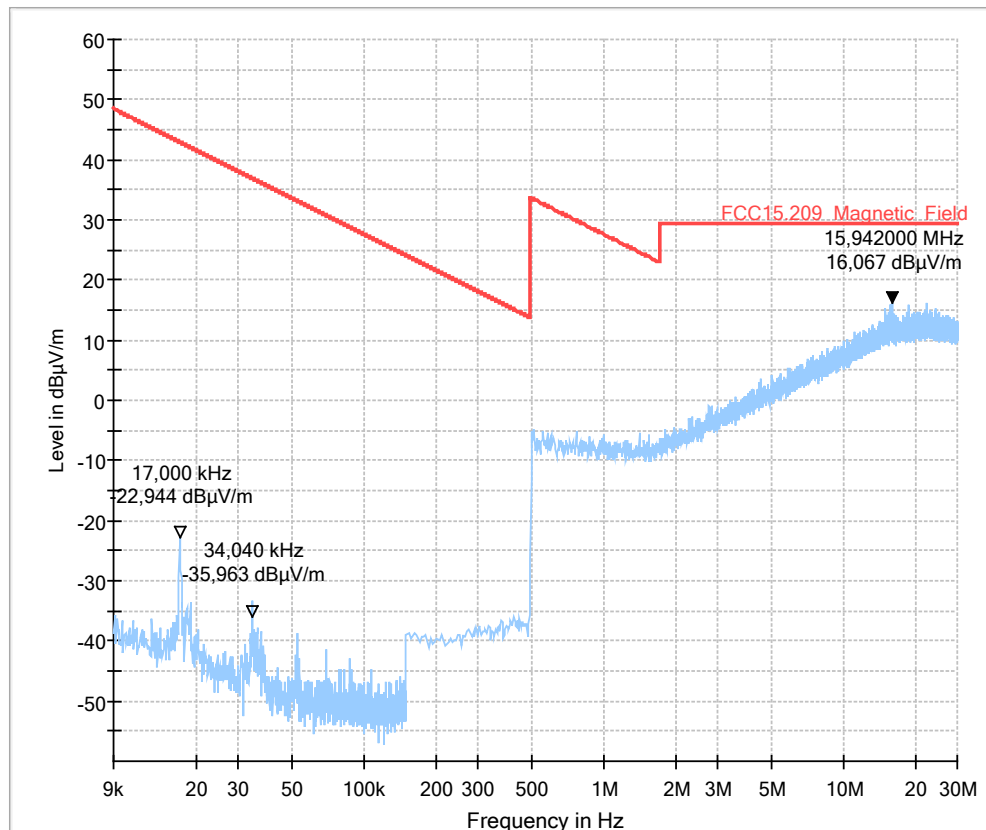
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Mah
Operating conditions:	TX-on
Power during tests:	24V DC
Comment 1:	Channel No: 9262
EUT Position:	EUT Standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.20b_RSE_R_Ch9262_RMC

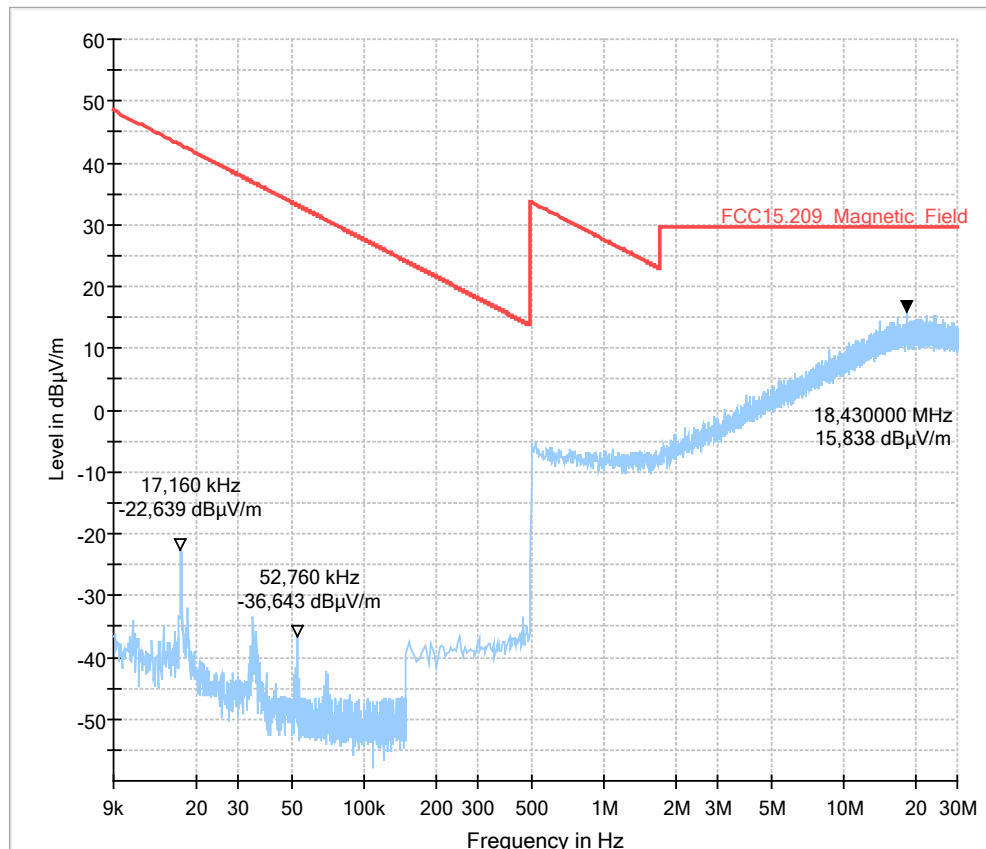
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RLs
Operating conditions:	TX-on
Power during tests:	24V DC
Comment 1:	Channel No: 9262

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.21a_RSE_R_Ch9400_RMC

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

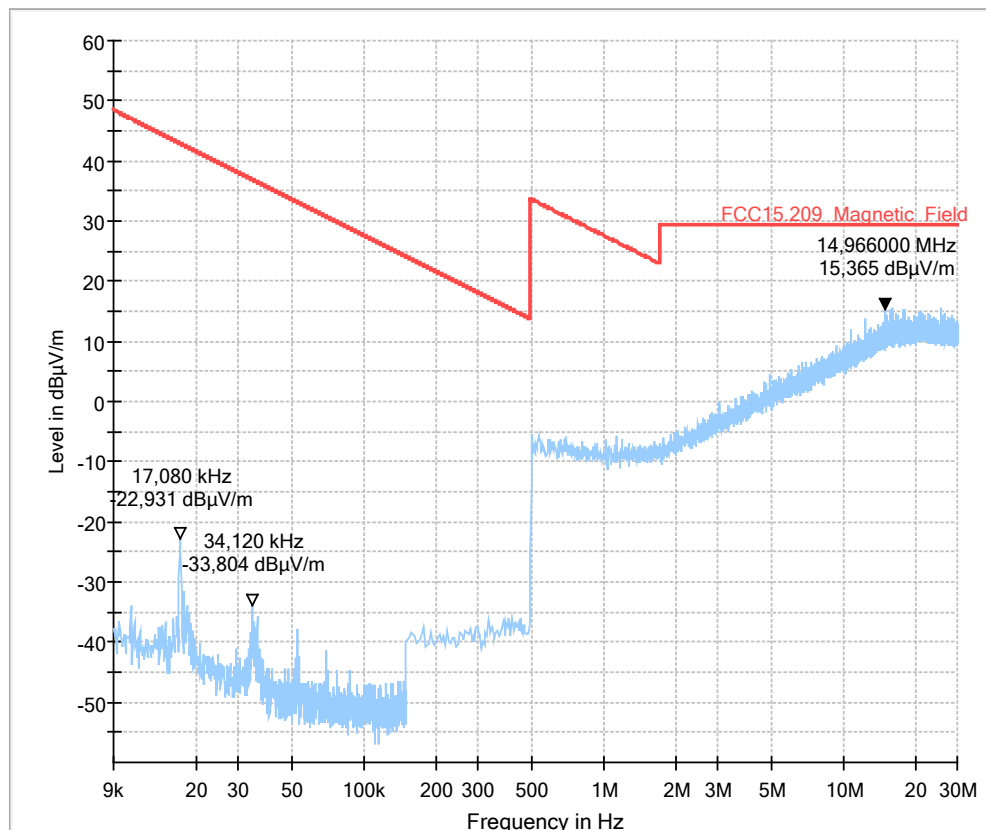
Operator: Mah
Operating conditions: TX-on
Power during tests: 24V DC
Comment 1: Channel No: 9400
EUT Position: EUT Standing

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH
EuT: ECU cTP_DIN

HW Version: 6797G04
SW Version: 16.099.2
Serial Number: 2830006236
Connected Interfaces: Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply: 24 V DC

Full Spectrum



2.21b_RSE_R_Ch9400_RMC

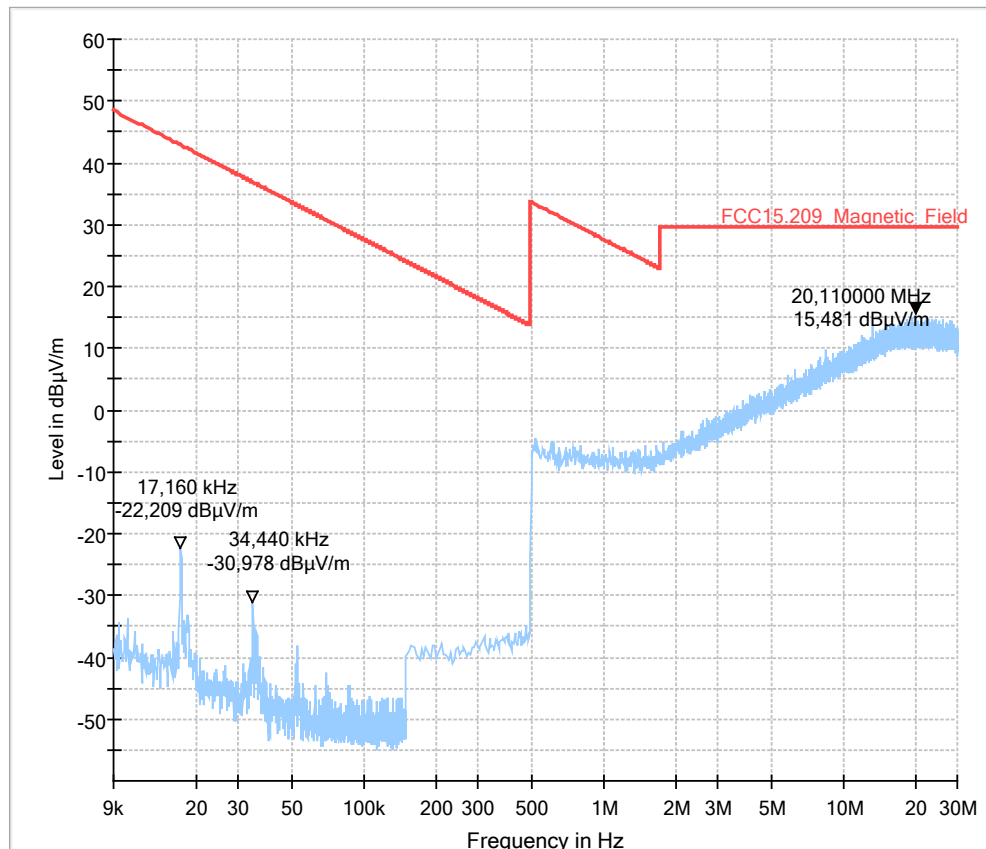
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RLs
Operating conditions:	TX-on
Power during tests:	24V DC
Comment 1:	Channel No: 9400

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.22a_RSE_R_Ch9538_RMC

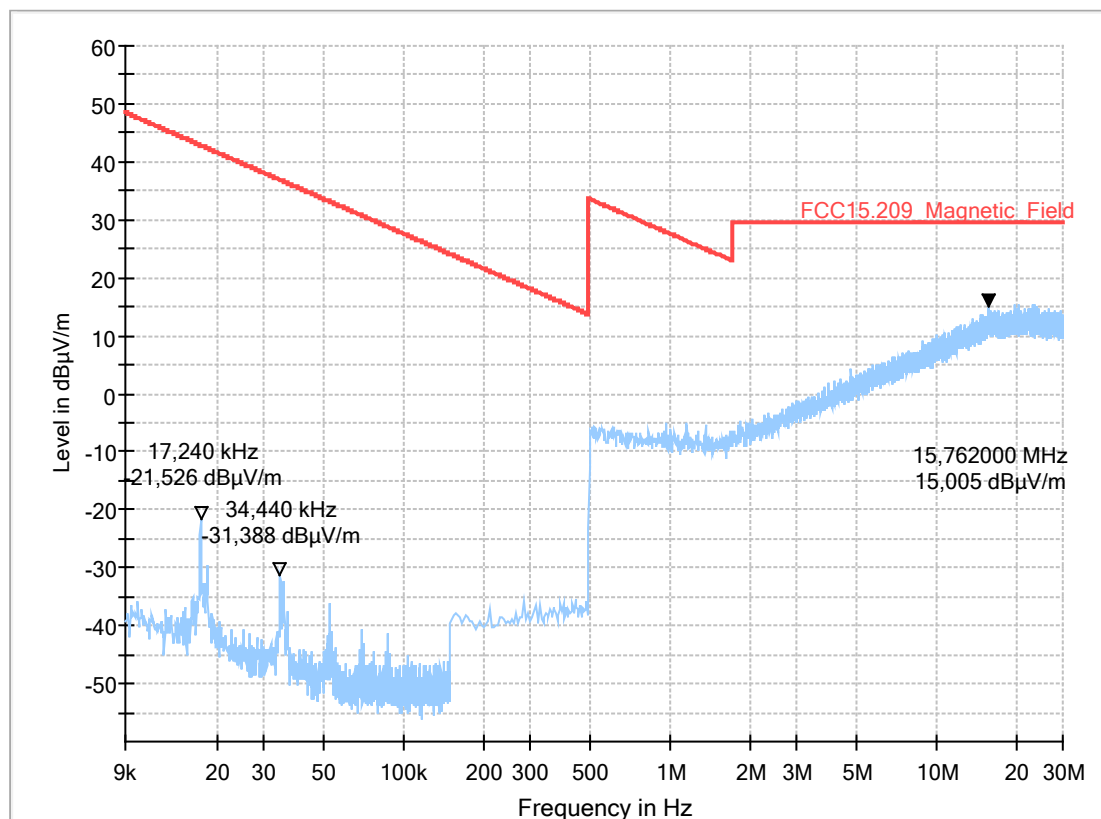
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	UMTS FDD II Channel 9538
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Power during tests:	24 V DC
Comment 1:	DUT Standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.22b_RSE_R_Ch9538_RMC

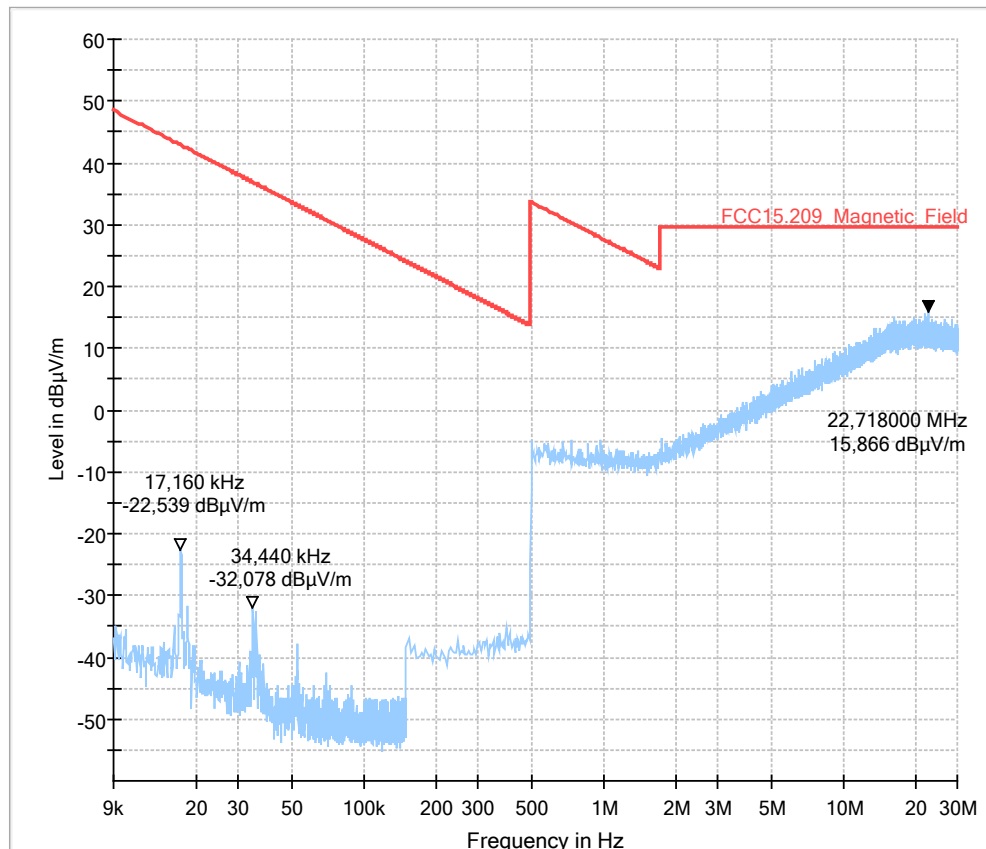
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RLs
Operating conditions:	TX-on
Power during tests:	24V DC
Comment 1:	Channel No: 9538

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



1.3. Magnetic field emissions radiated (FDD Band V transmitting mode) 2.50a_RSE_R_Ch4132_RMC

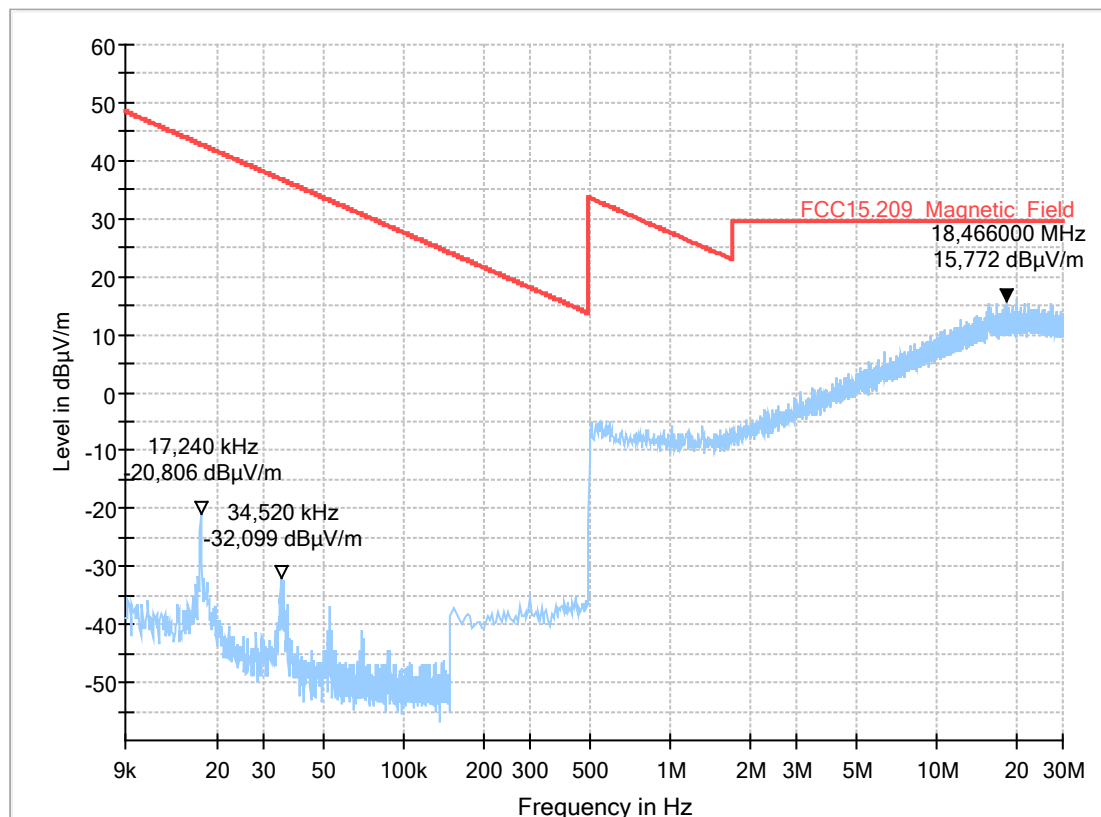
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	UMTS FDD V Channel 4132
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Power during tests:	24 V DC
Comment 1:	DUT Standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.50b_RSE_R_Ch4132_RMC

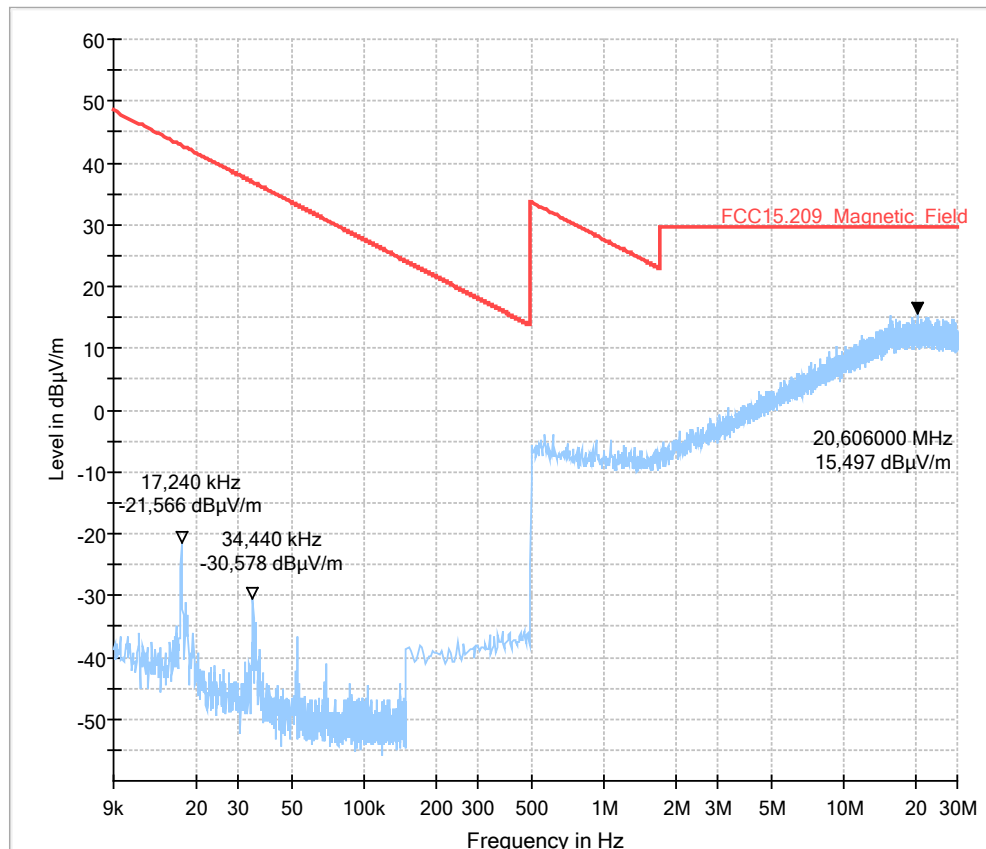
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RIIs
Operating conditions:	TX Mode_UMTSV
Power during tests:	24V DC
Comment 1:	Channel No: 4132

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.51a_RSE_R_Ch4183_RMC

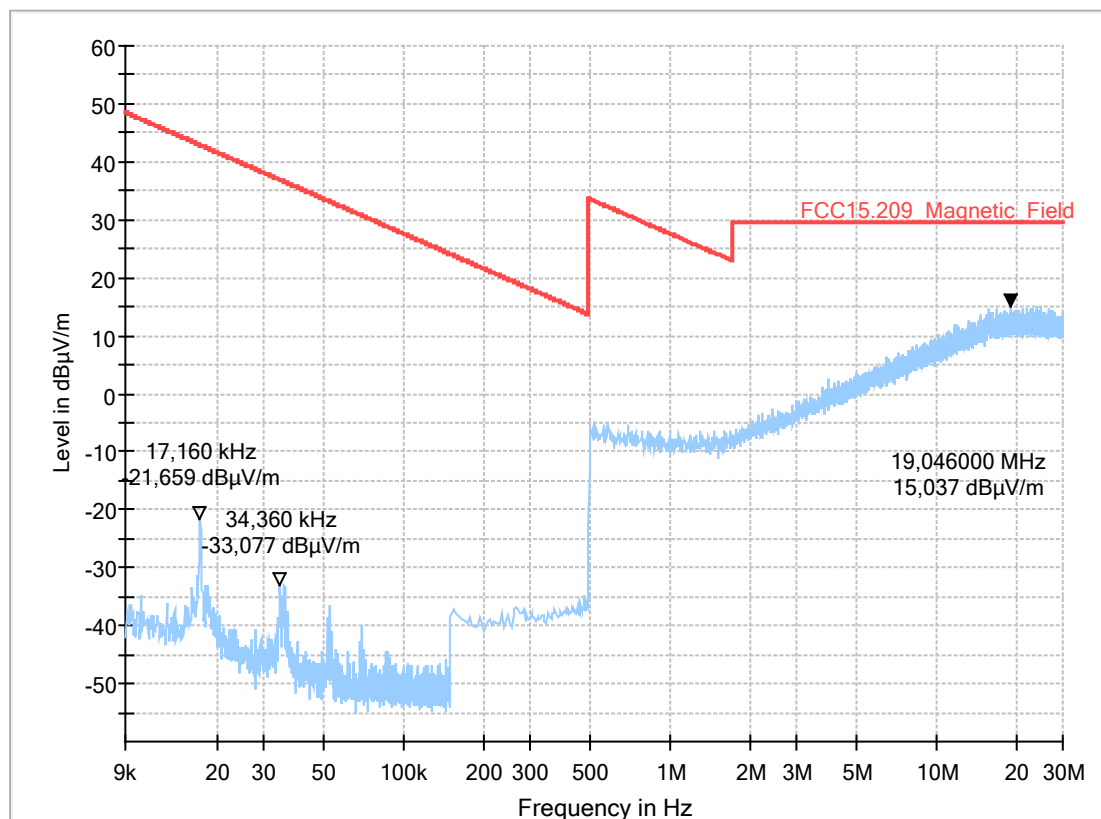
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	UMTS FDD V Channel 4183
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Power during tests:	24 V DC
Comment 1:	DUT Standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.51b_RSE_R_Ch4183_RMC

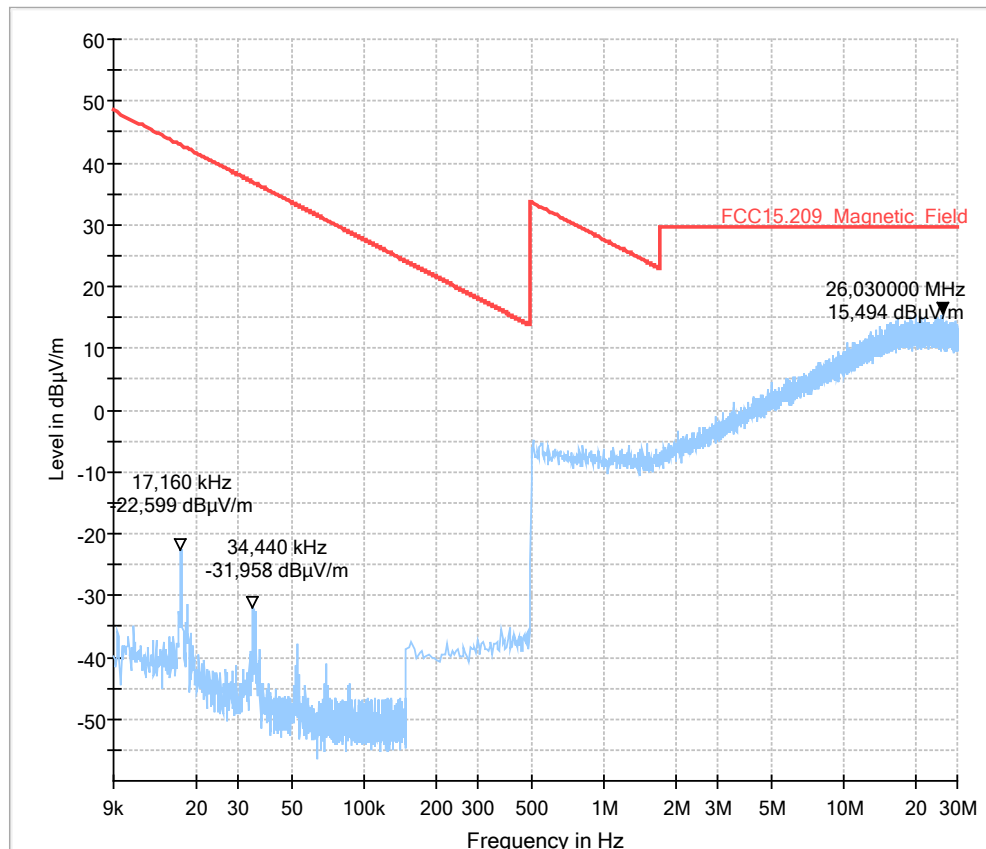
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RIIs
Operating conditions:	TX Mode_UMTSV
Power during tests:	24V DC
Comment 1:	Channel No: 4183

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.52a_RSE_R_Ch4233_RMC

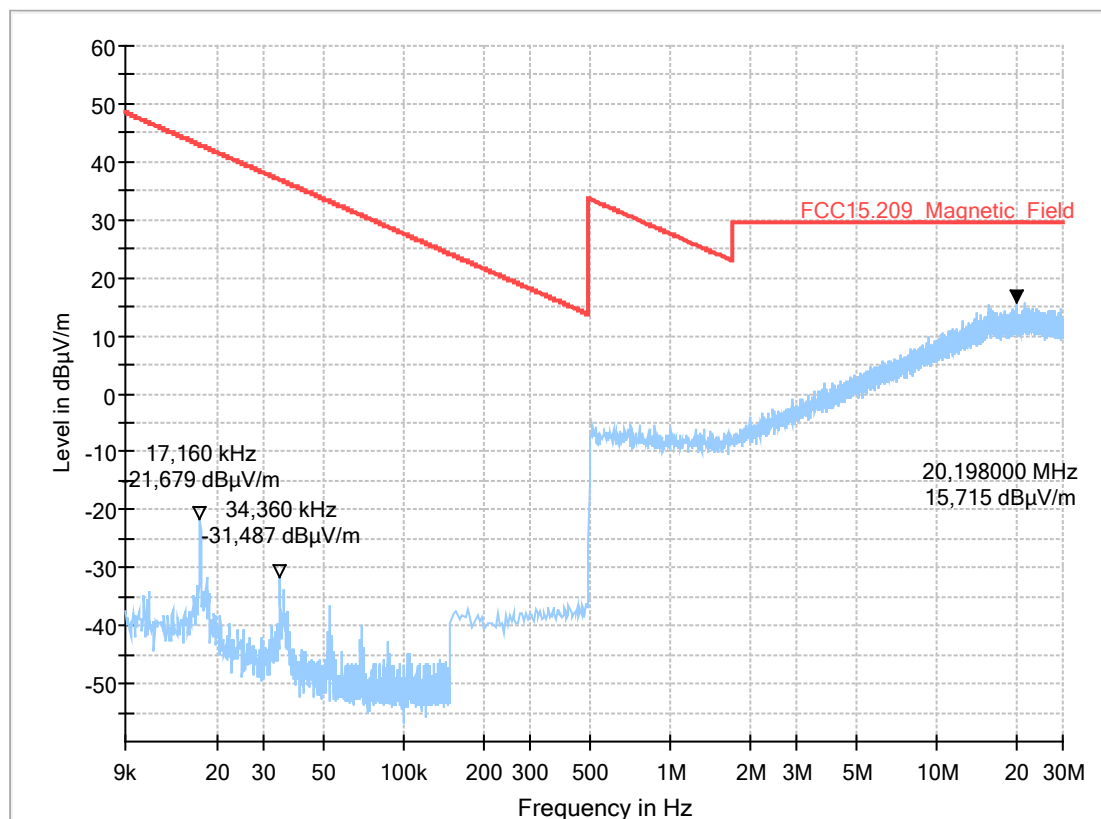
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	UMTS FDD V Channel 4233
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Power during tests:	24 V DC
Comment 1:	DUT Standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



2.52b_RSE_R_Ch4233_RMC

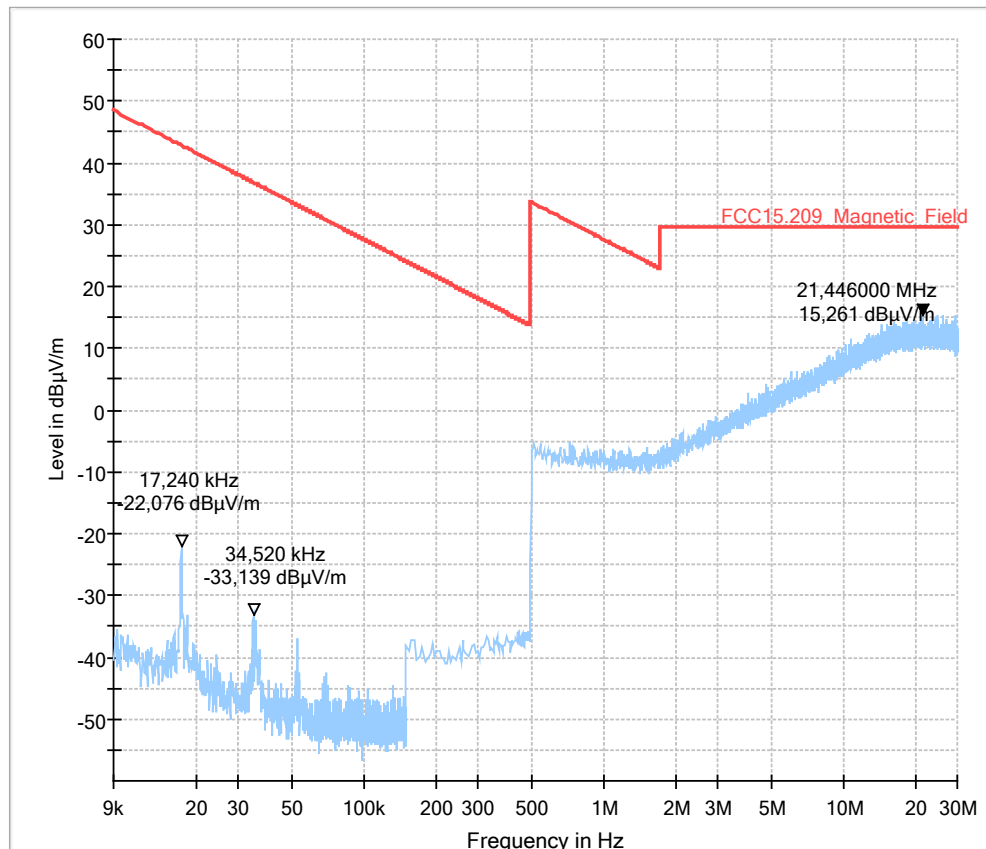
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RIIs
Operating conditions:	TX Mode_UMTSV
Power during tests:	24V DC
Comment 1:	4233

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



1.4. Spurious emissions radiated (FDD Band II transmitting mode)

8.20a_RSE_R_Ch9262_RMC_standing

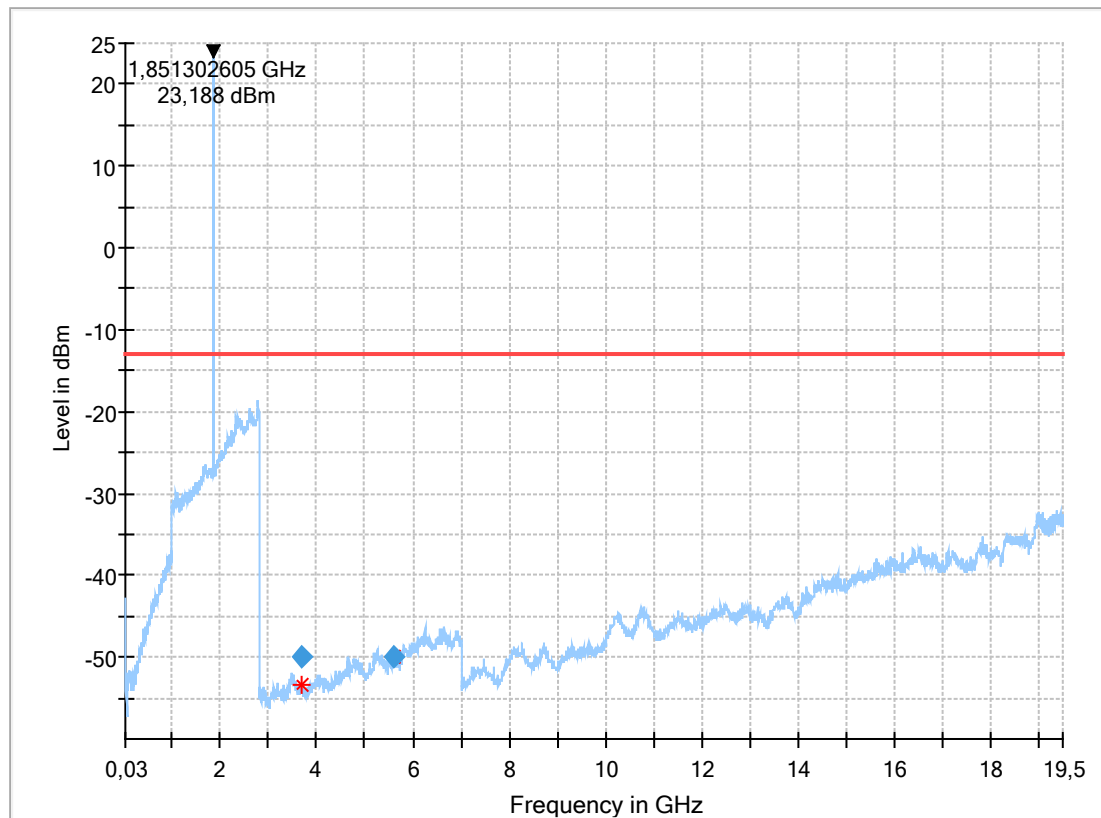
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.20b_RSE_R_Ch9262_RMC_laying

Common Information

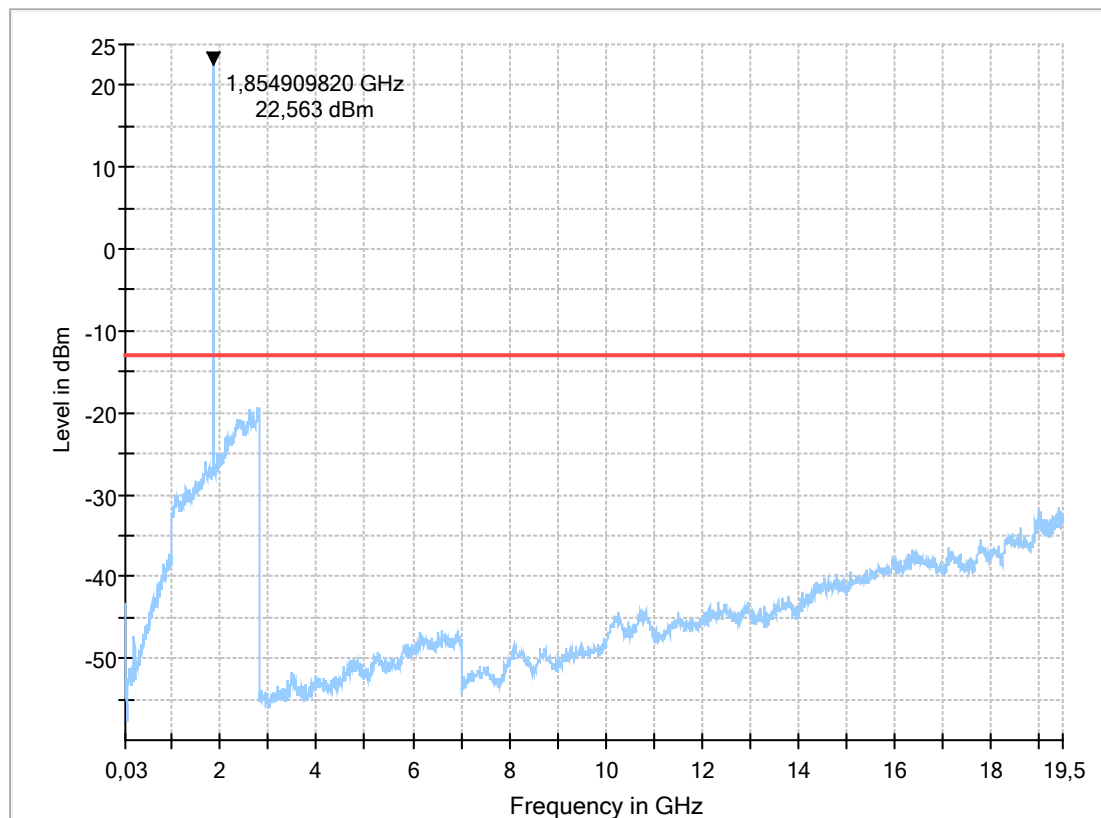
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.21a_RSE_R_Ch9400_RMC_standing

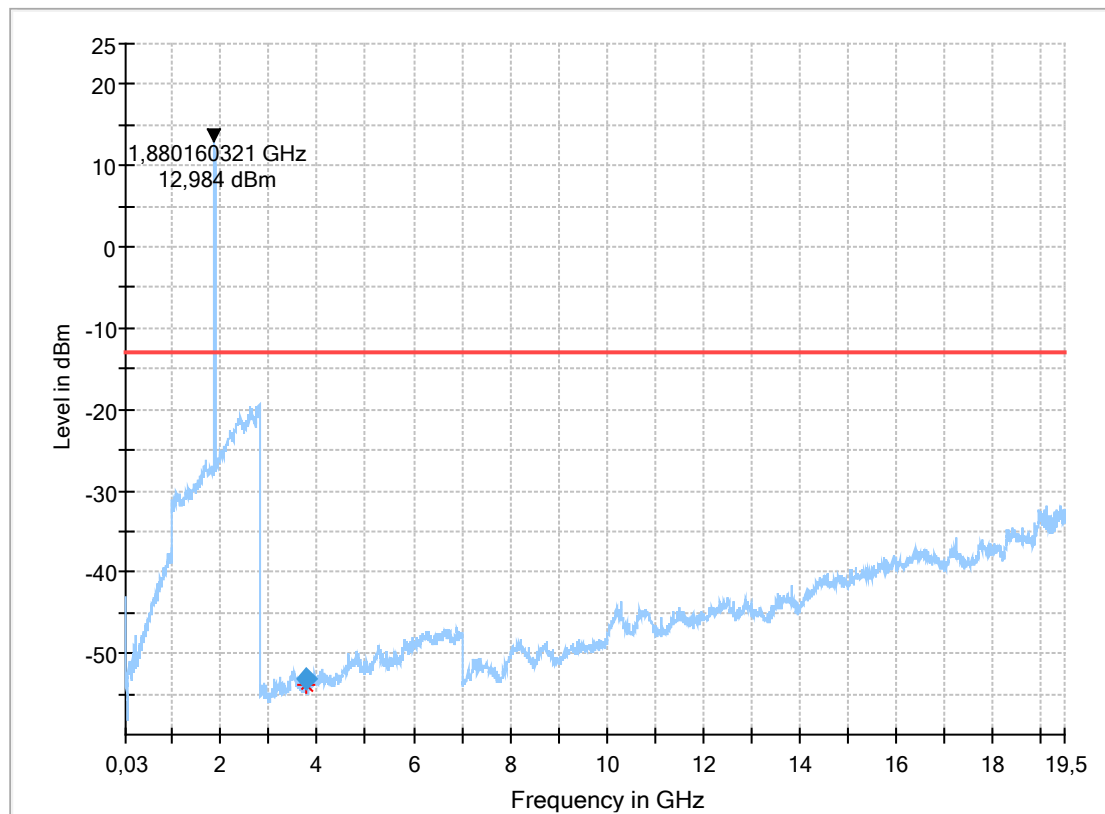
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth h (deg)	Corr. (dB)
3757.444890	-13.00	40.02	10000.0	H	334.0	-95.1

8.21b_RSE_R_Ch9400_RMC_laying

Common Information

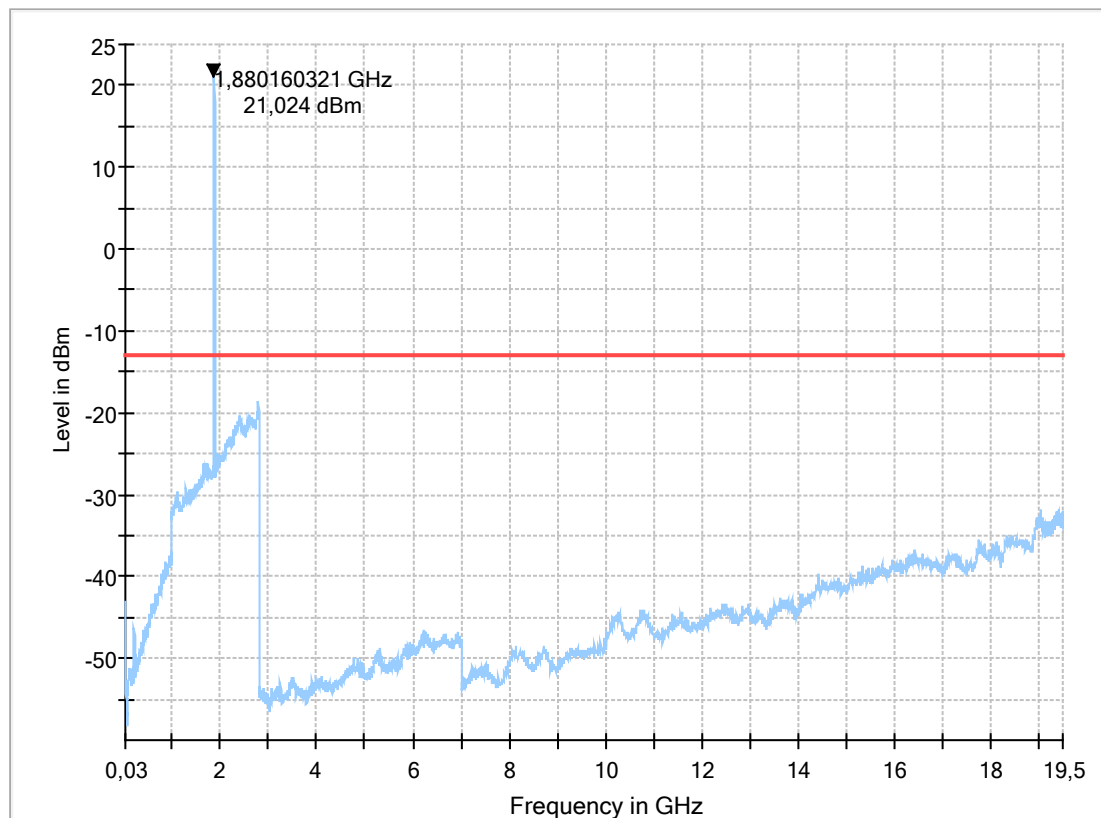
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.22a_RSE_R_ Ch9538_RMC_standing

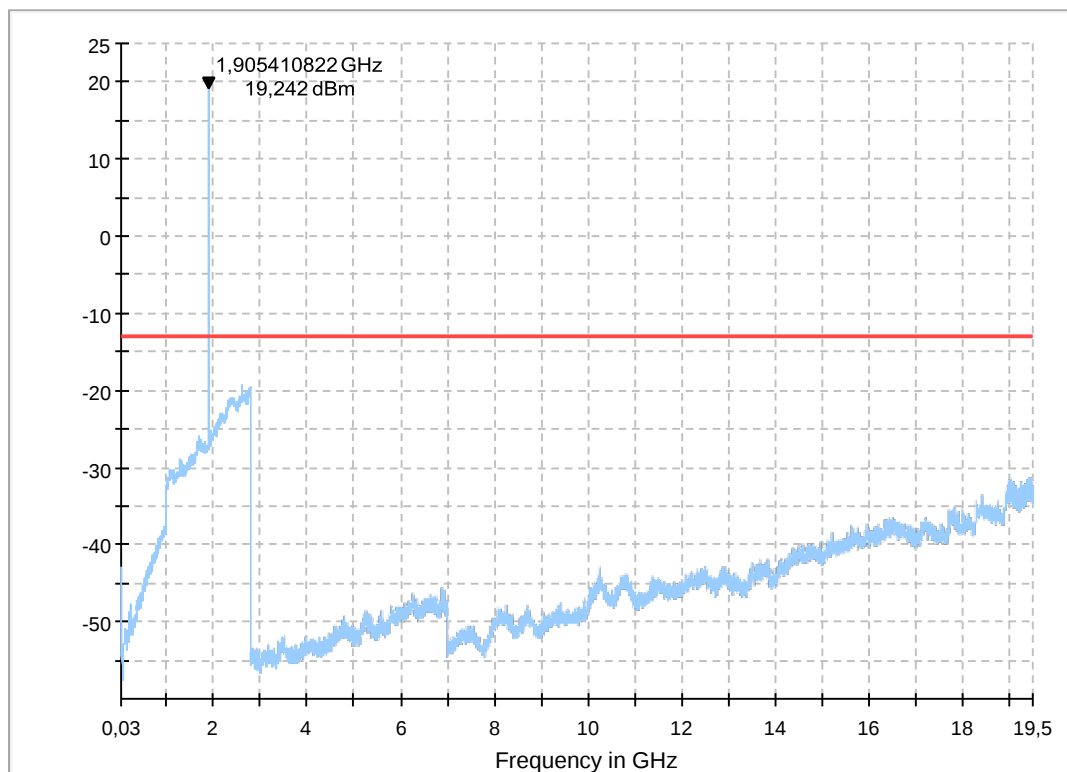
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.22b_RSE_R_Ch9538_RMC_laying

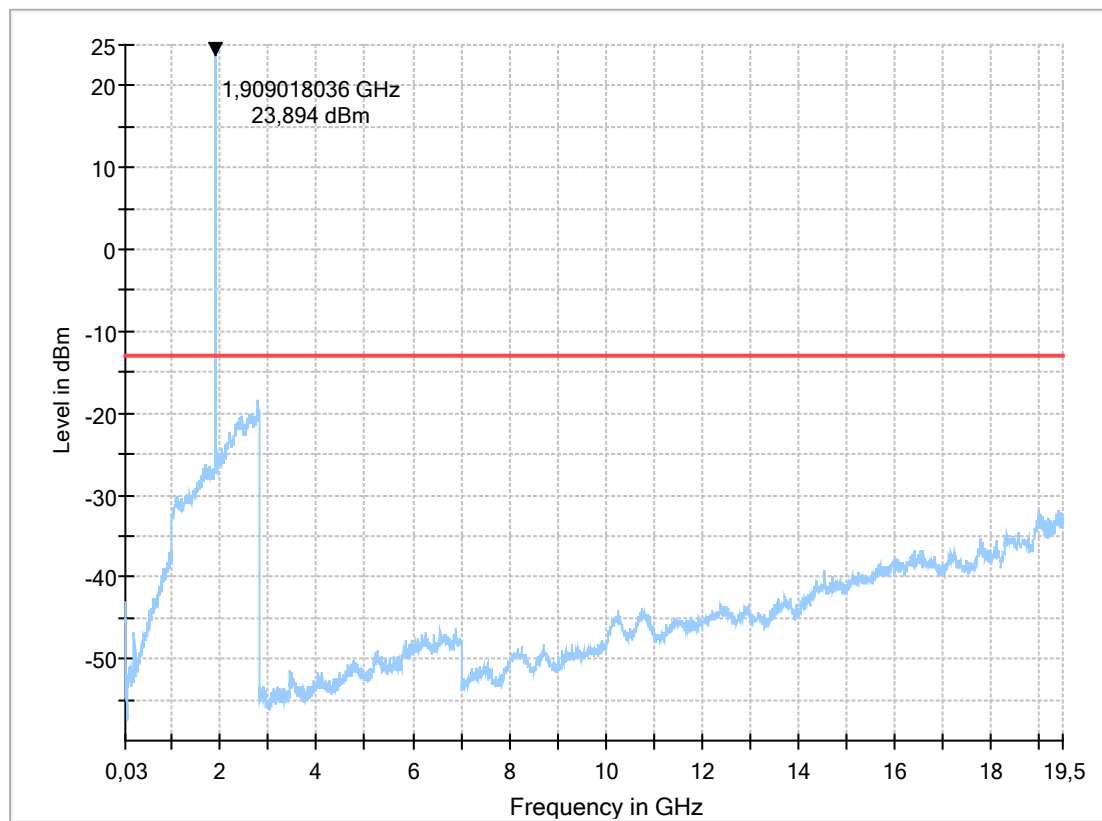
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remark:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



1.5. Spurious emissions radiated (FDD Band V transmitting mode) 8.50a_RSE_R_Ch4132_RMC_standing

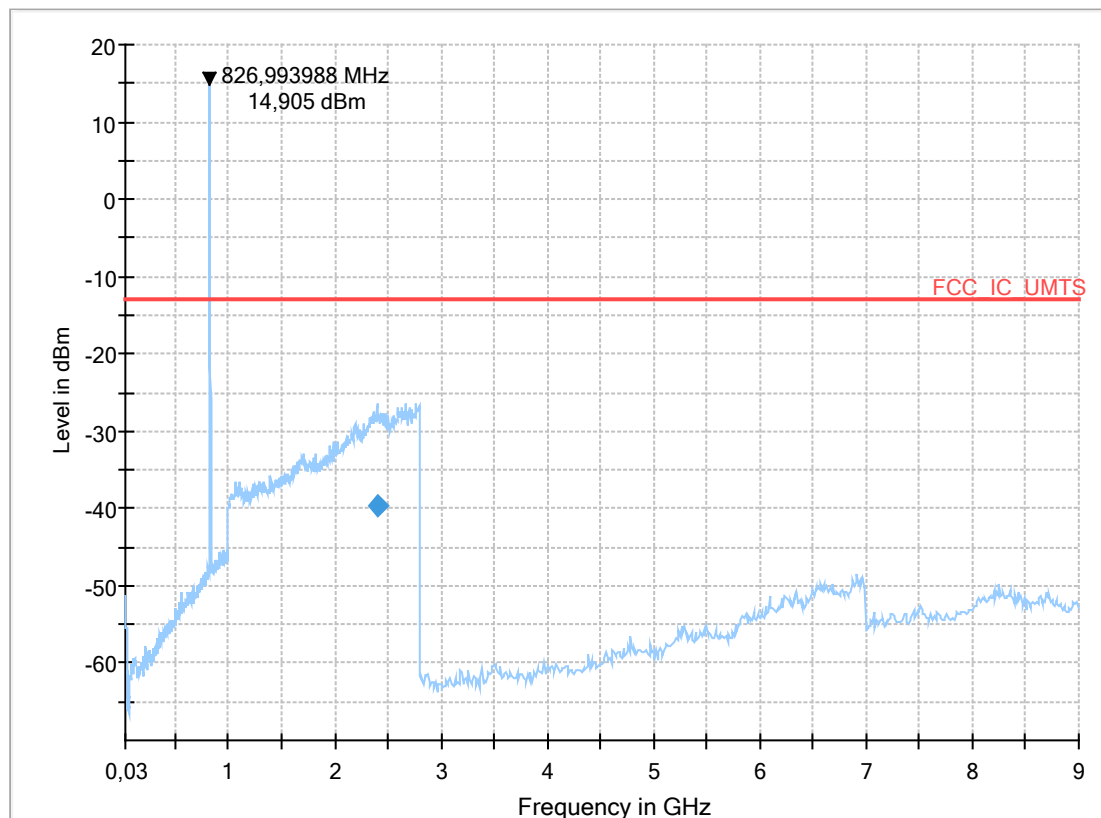
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.6MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.50b_RSE_R_Ch4132_RMC_laying

Common Information

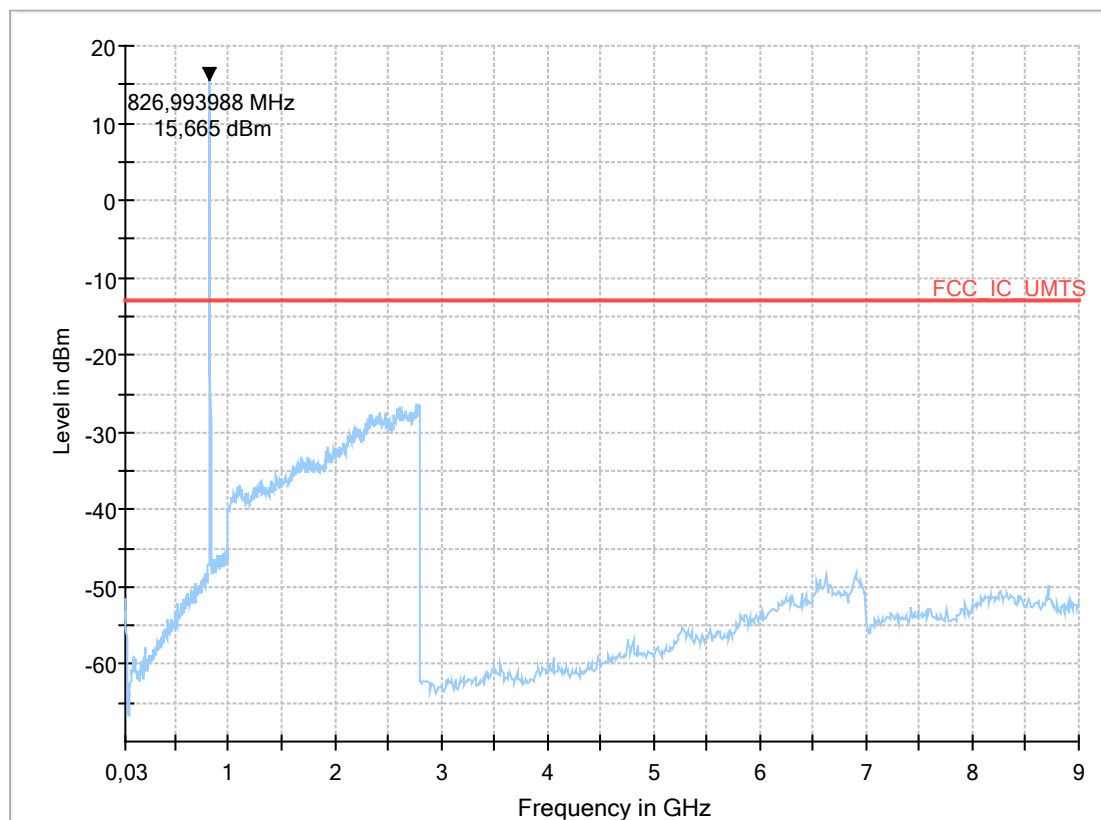
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.6MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.51a_RSE_R_Ch4183_RMC_standing

Common Information

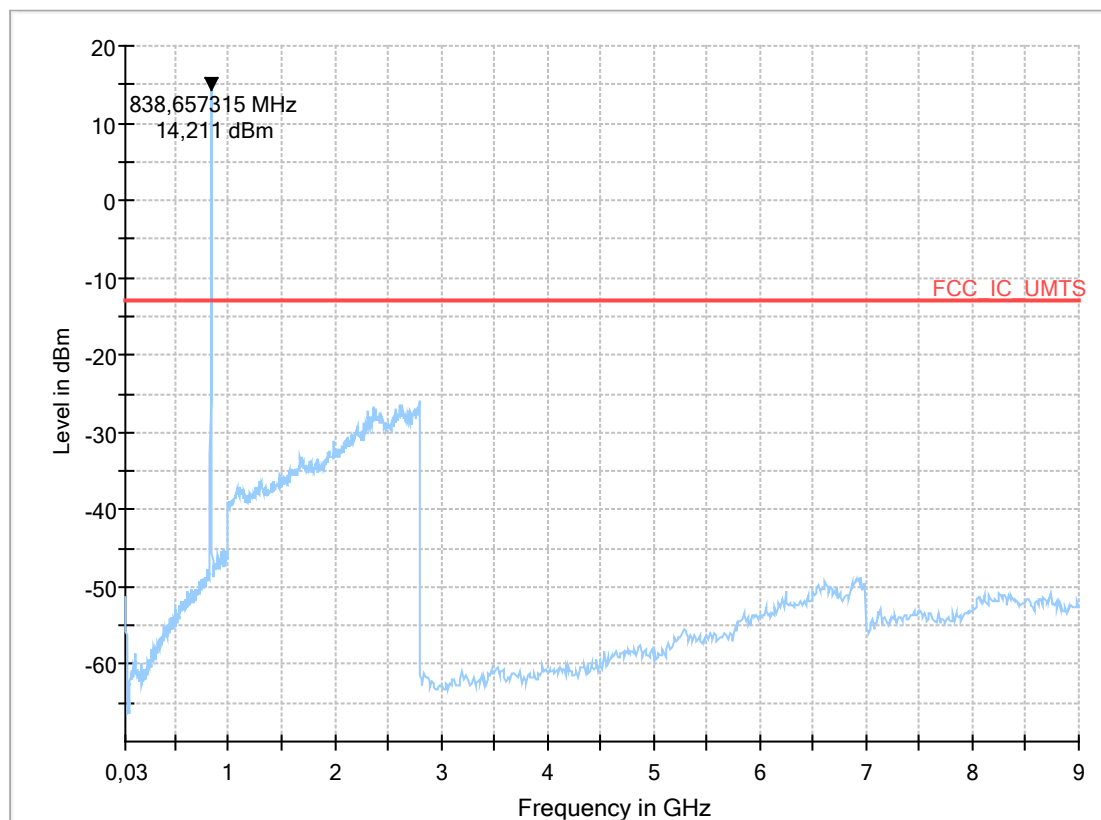
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4183
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.51b_RSE_R_Ch4183_RMC_laying

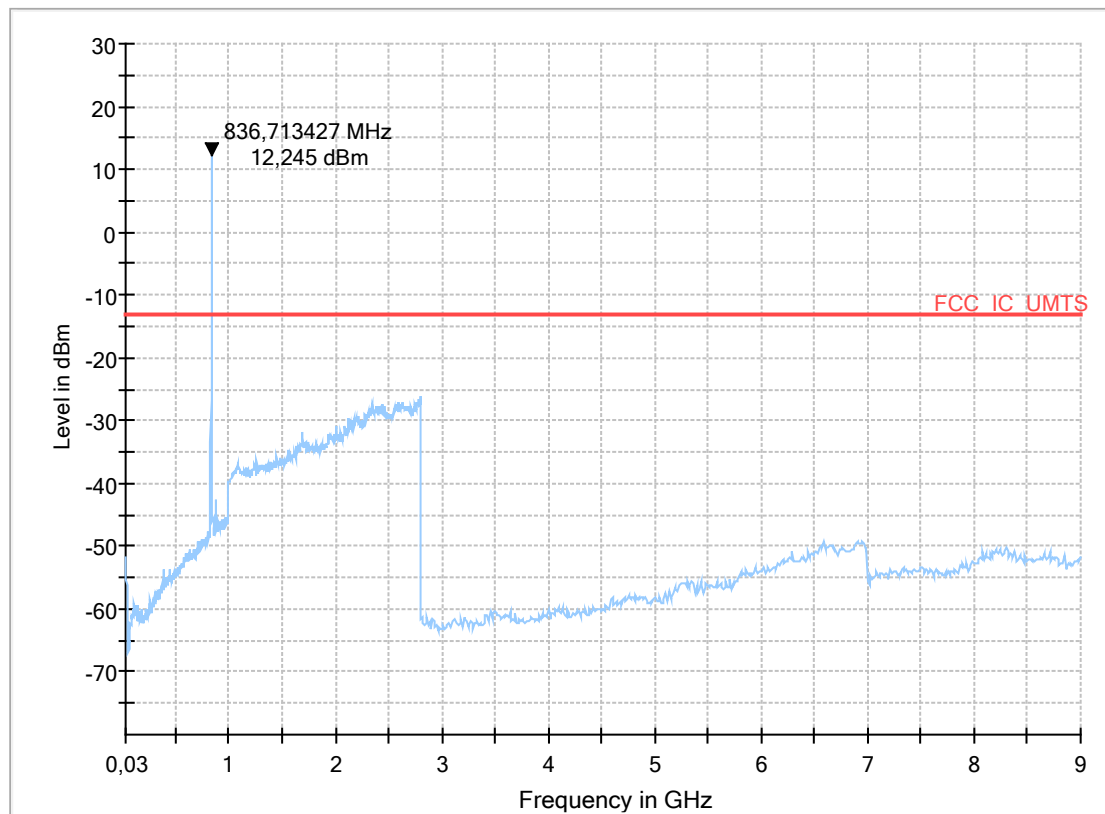
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4133/4182/4233 (fc = 826.6/836.4/846.6 MHz), Voice/HSDPA/HSUPA/HSPA+, H-Set x
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



8.52a_RSE_R_Ch4233_RMC_standing

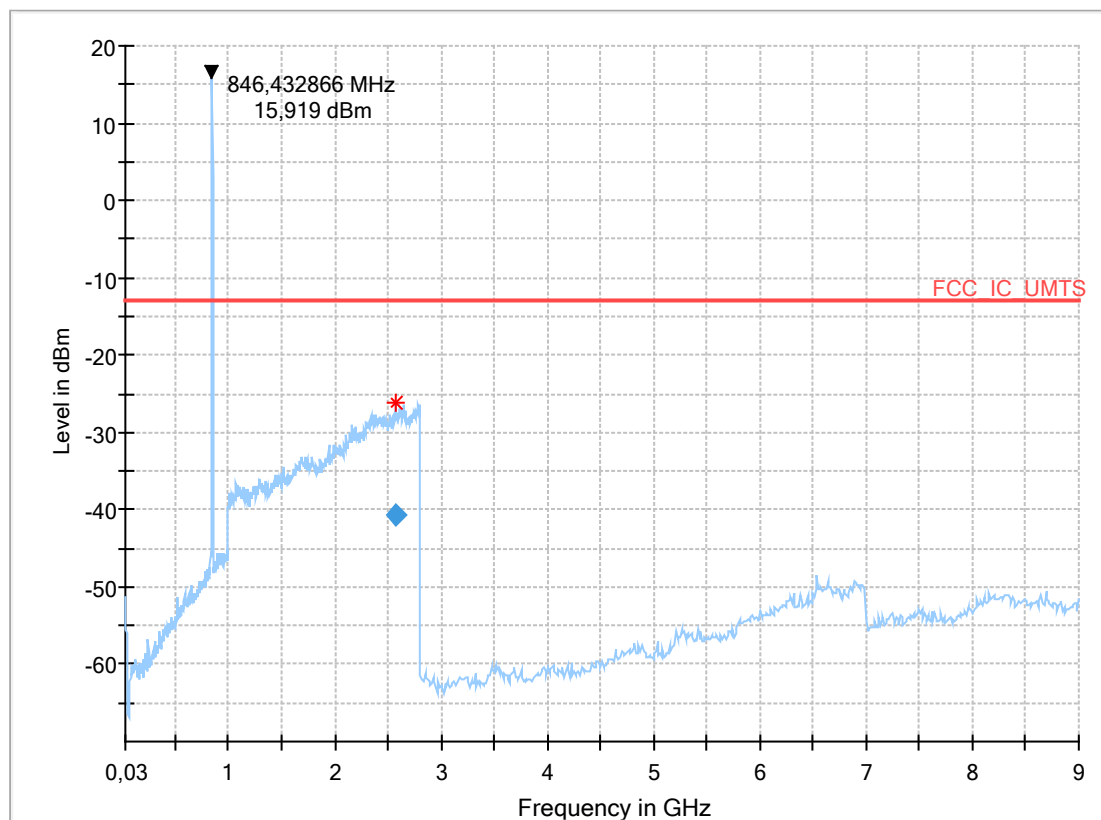
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Corr. (dB)
2572.655310	-	27.74	1000.0	V	80.0	-59.2

8.52b_RSE_R_Ch4233_RMC_laying

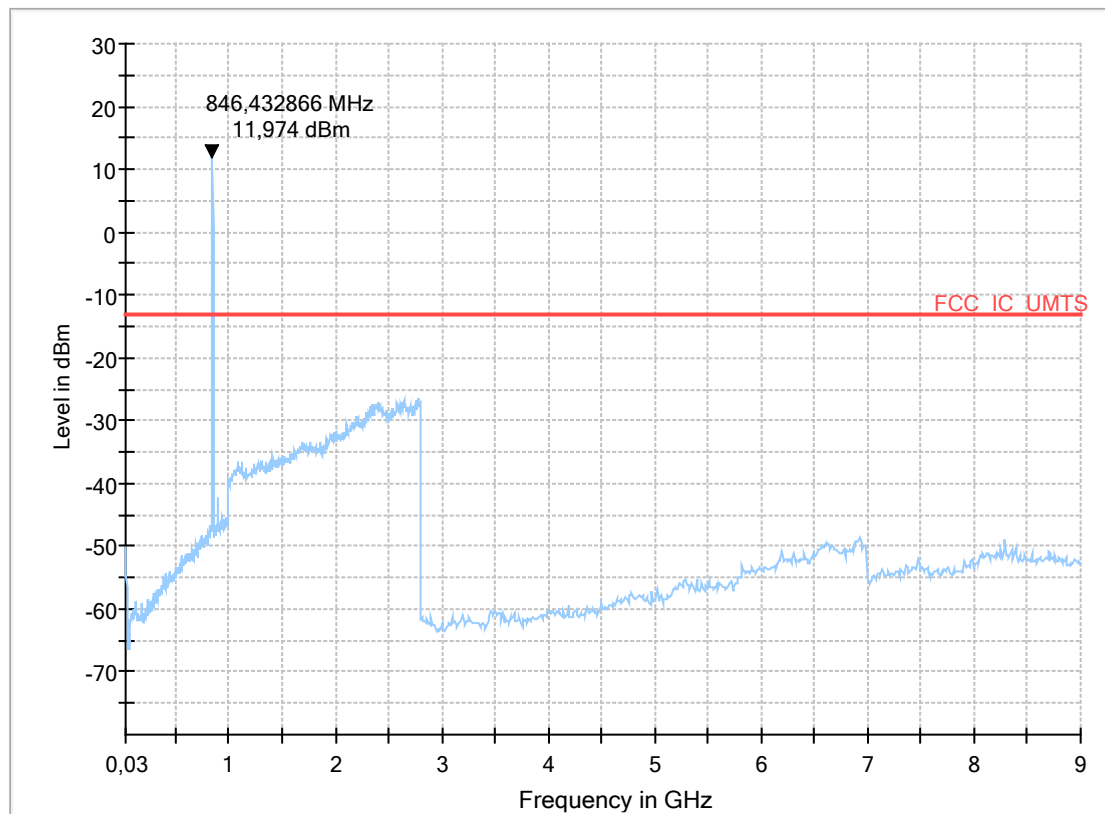
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4133/4182/4233 (fc = 826.6/836.4/846.6 MHz), Voice/HSDPA/HSUPA/HSPA+, H-Set x
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



1.6. Radiated emissions on FDD Band II band-edge

9.20a_BE_R_Ch9262_RMC_Standing

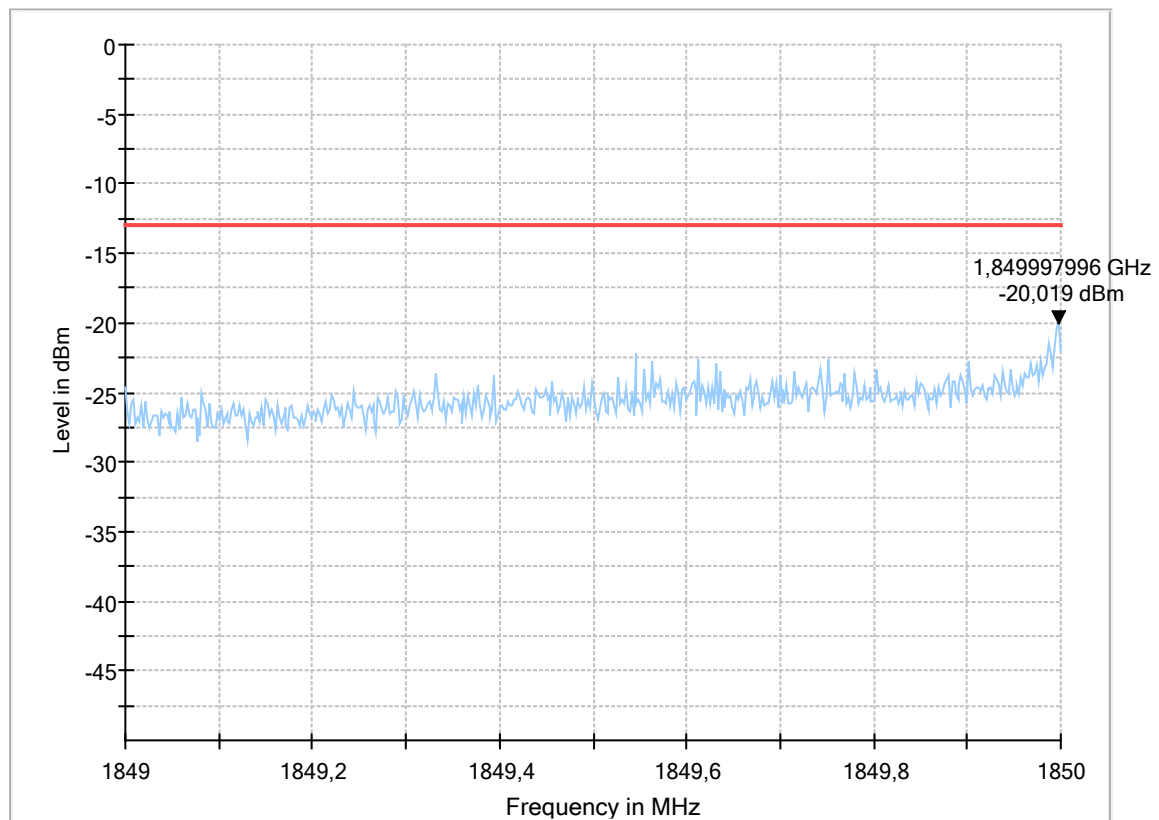
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Operating Mode:	UE allocated channel 9262
Operating Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator Name:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.20b_BE_R_Ch9262_RMC_Laying

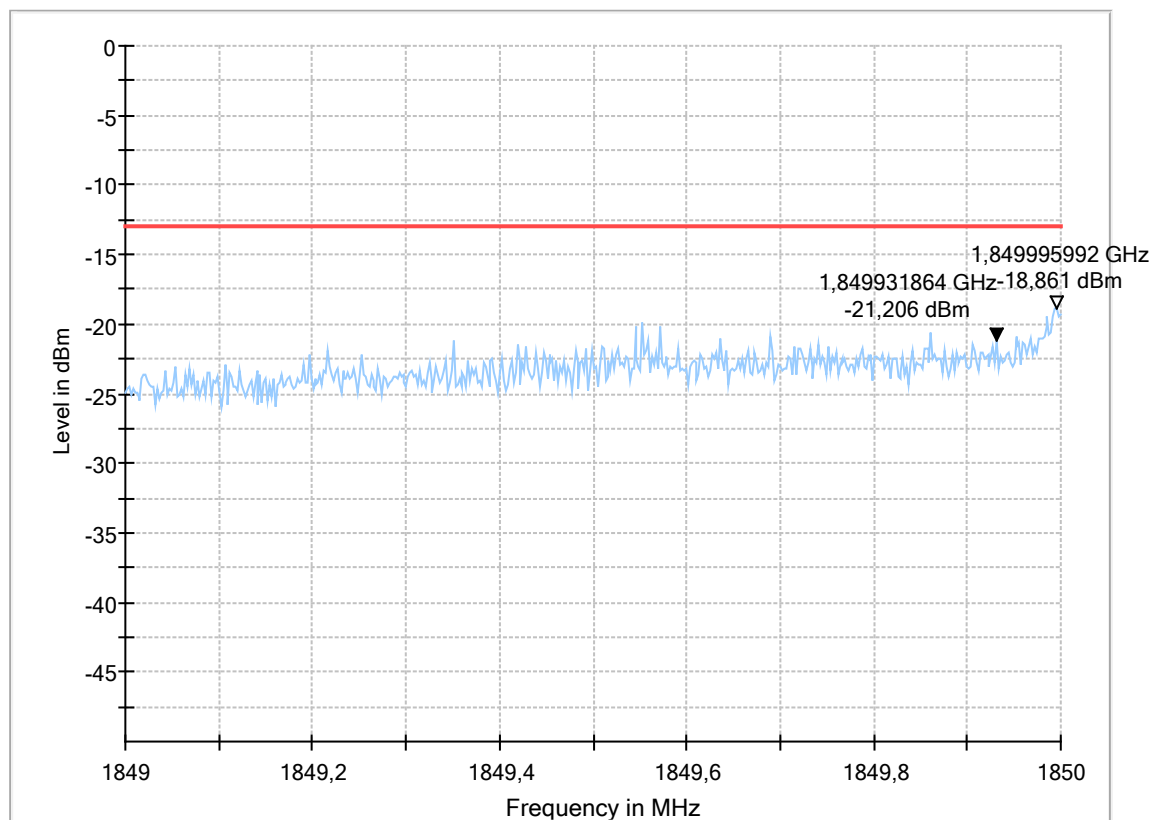
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Operating Mode:	UE allocated channel 9262
Operating Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator Name:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.21a_BE_R_Ch9538_RMC_Standing

Common Information

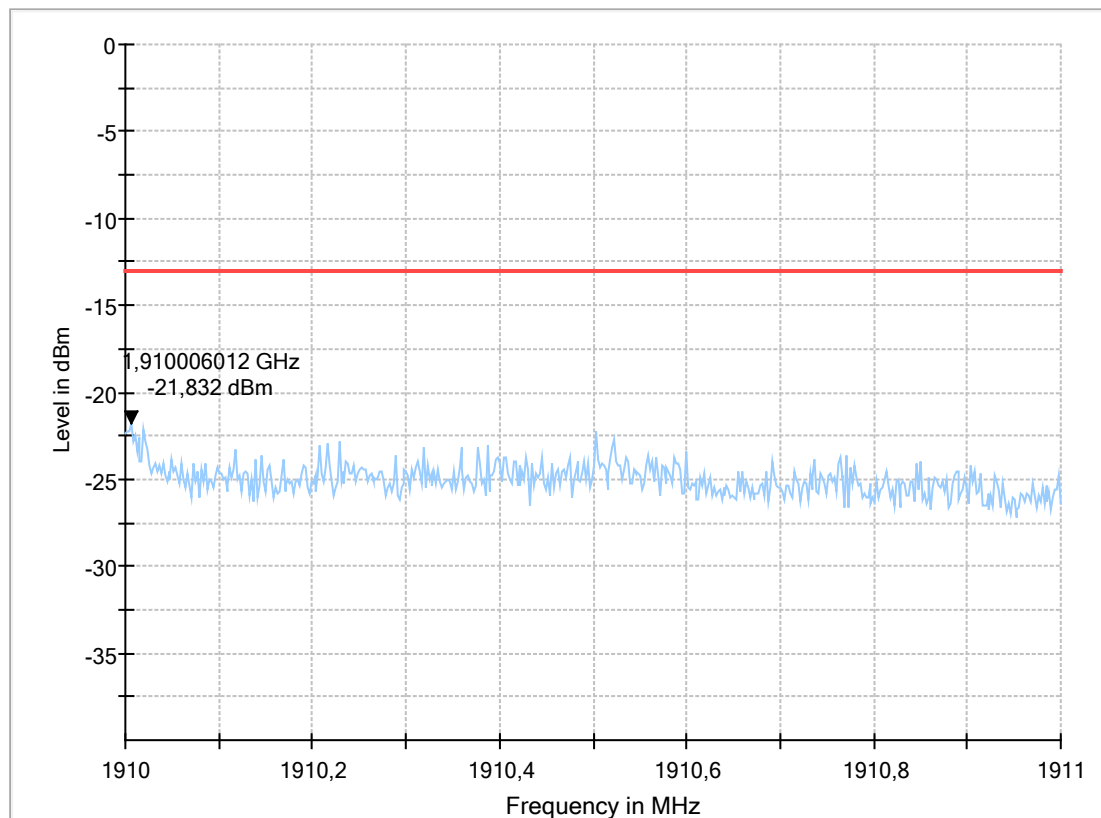
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	RSS_130 Issue1
Operating Mode:	UE allocated channel 9538
Exclusionband:	--
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.21b_BE_R_Ch9538_RMC_Laying

Common Information

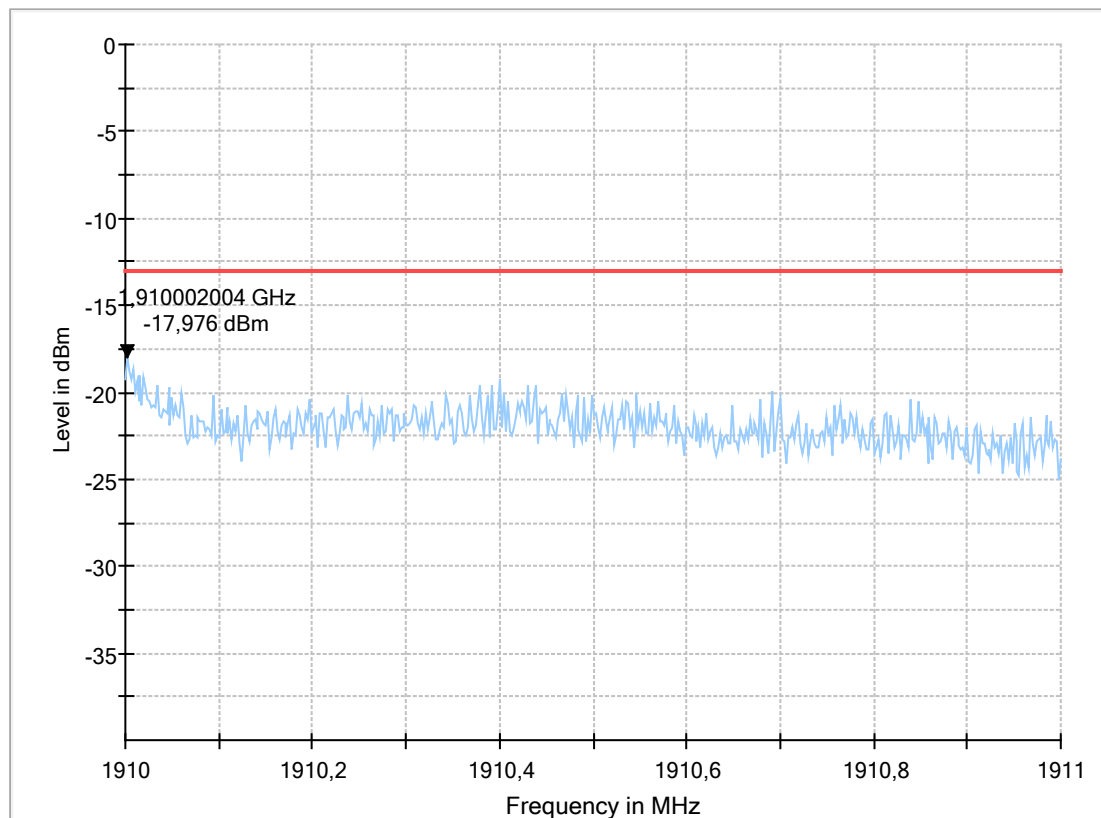
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	RSS_130 Issue1
Operating Mode:	UE allocated channel 9538
Exclusionband:	--
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



1.7. Radiated emissions on FDD Band V band-edge 9.50_BE_R_Ch4132_RMC_Laying

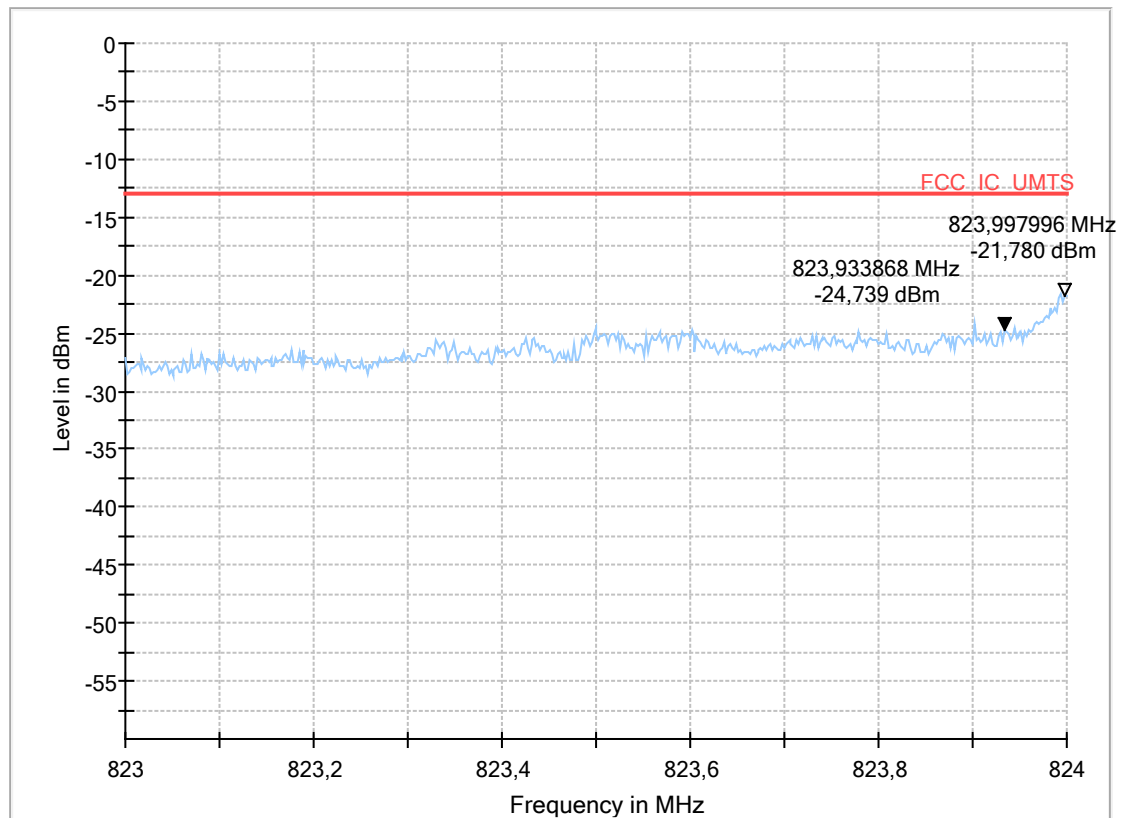
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	Mah
Remarks:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.50_BE_R_Ch4132_RMC_standing

Common Information

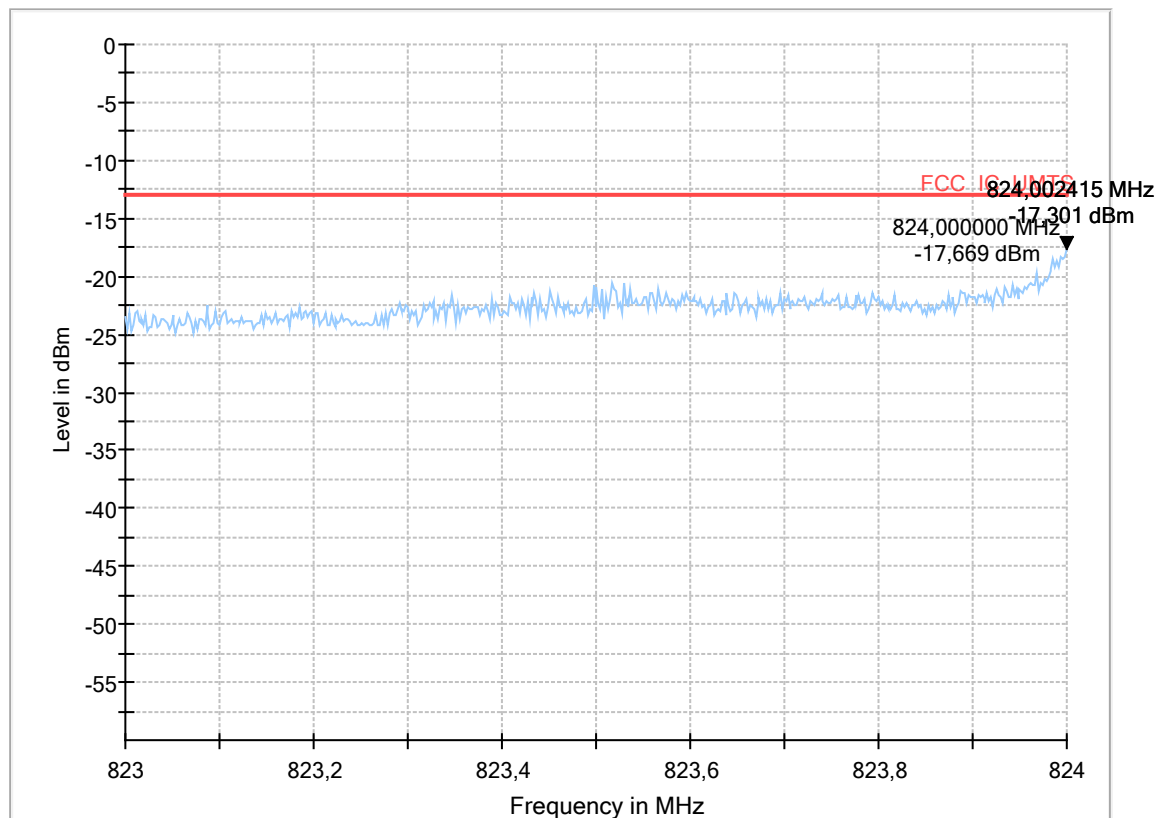
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remarks:	standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN

HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.51_BE_R_Ch4233_RMC

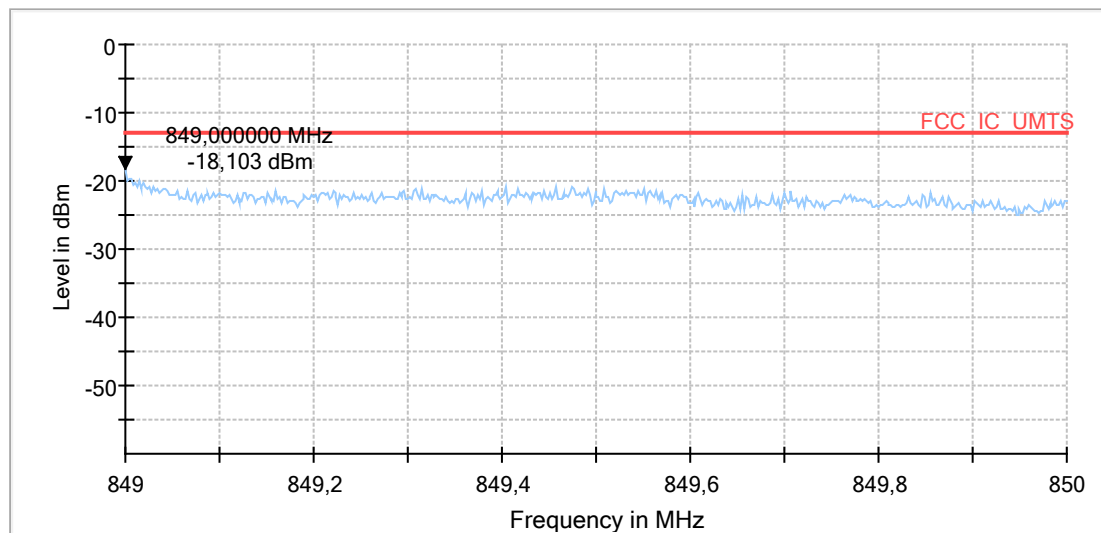
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	MBe
Remarks:	standing

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum



9.51_BE_R_Ch4233_RMC_Laying

Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	Mah
Remarks:	laying

EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP _DIN
-----	-----
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014 + side mirror GPS antenna
Power Supply:	24 V DC

Full Spectrum

