

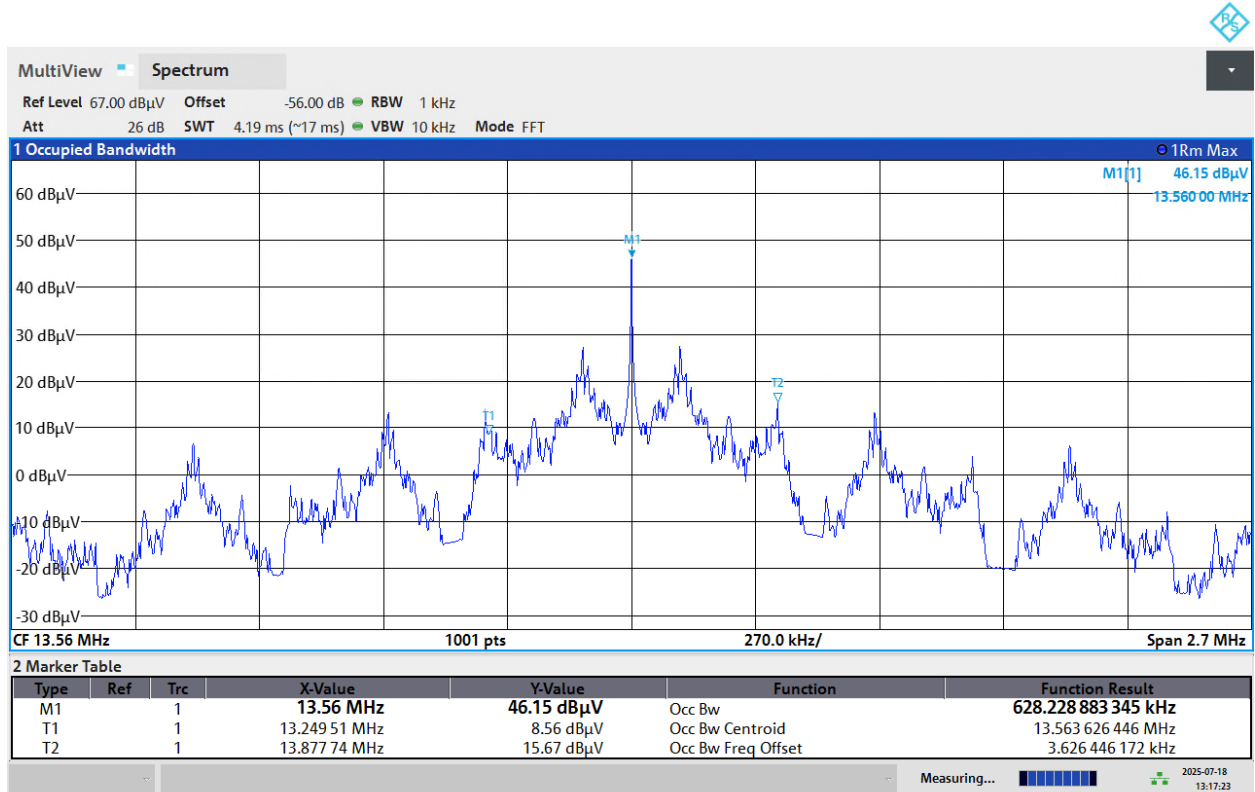
Annex 1:

Measurement diagrams 1-9945-25-02-02_TR1-A201-R01

Number of pages:	14	Date of Report:	2025-Jul-21
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	WITTE-Velbert GmbH & Co.KG
Product: Model:	Automotive NFC Outer Door Handle EDH2507		
FCC ID:	V2T-EDH2507	IC:	7575A-EDH2507
		PMN:	EDH2507
		HVIN:	EDH2507
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart C Intentional Radiators, Radiated Emission Limits, Additional Provisions § 15.225 Operation within the band 13.110-14.010 MHz ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus RSS-210, Issue 11 Licence-Exempt Radio Apparatus: Category I Equipment Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

Measurement diagrams

TID001_99%_OBW_TnomVnom



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2.07_FCC_H-Field_TX_standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance

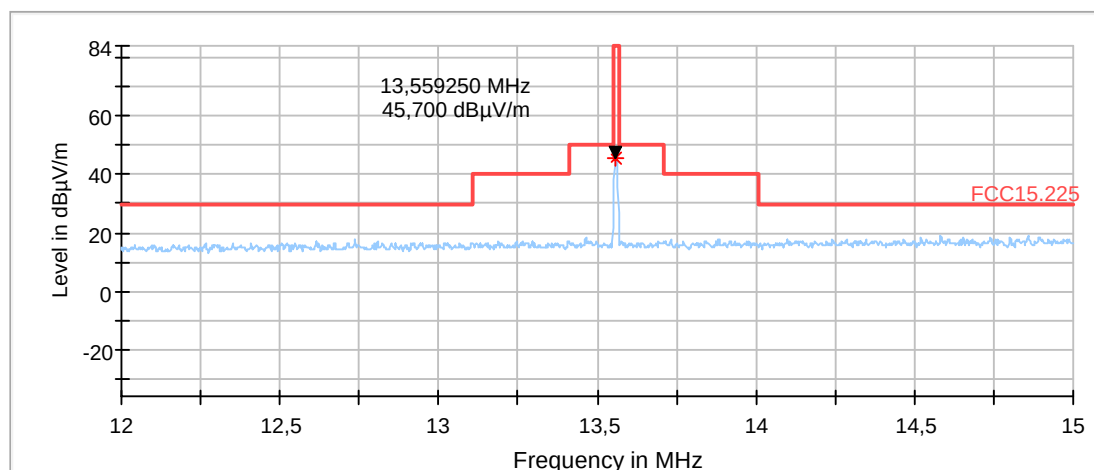
Version of Testsoftware: EMC32 V10.60.20
Distance correction: used accord. table, pls. see test report
Technical Data: Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test Standard: FCC 15.225 / RSS-210: Issue 11

Operator: leic
Operating Mode: TX
Environmental Conditions: Humidity: 40 % rH; Temperature: 22.8 °C
Verdict: Passed

EUT Information

EUT SN: 20250613_01
Power supply: 12 V DC car battery

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
13.559250	45.71	84.00	38.29	9.000	V	42.0	-1.5	-21.2	0.2

2.08_FCC_H-Field_TX_lying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance

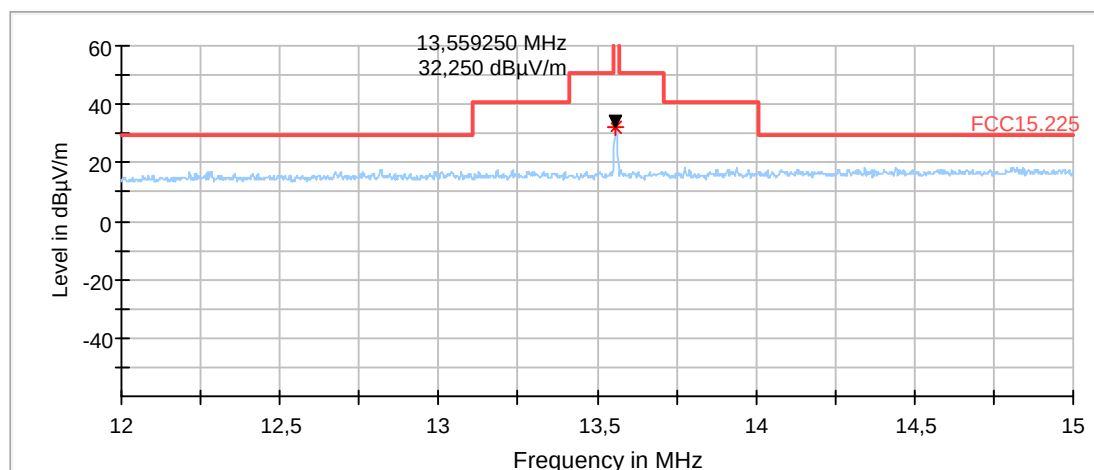
Version of Testsoftware: EMC32 V10.60.20
Distance correction: used accord. table, pls. see test report
Technical Data: Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test Standard: FCC 15.225 / RSS-210: Issue 11

Operator: leic
Operating Mode: TX
Environmental Conditions: Humidity: 40 % rH; Temperature: 22.8 °C
Verdict: Passed

EUT Information

EUT SN: 20250613_01
Power supply: 12 V DC car battery

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preampl (dB)
13.559250	32.25	84.00	51.75	9.000	V	66.0	-1.5	-21.2	0.2

2.09_FCC_H-Field_TXRX_standing

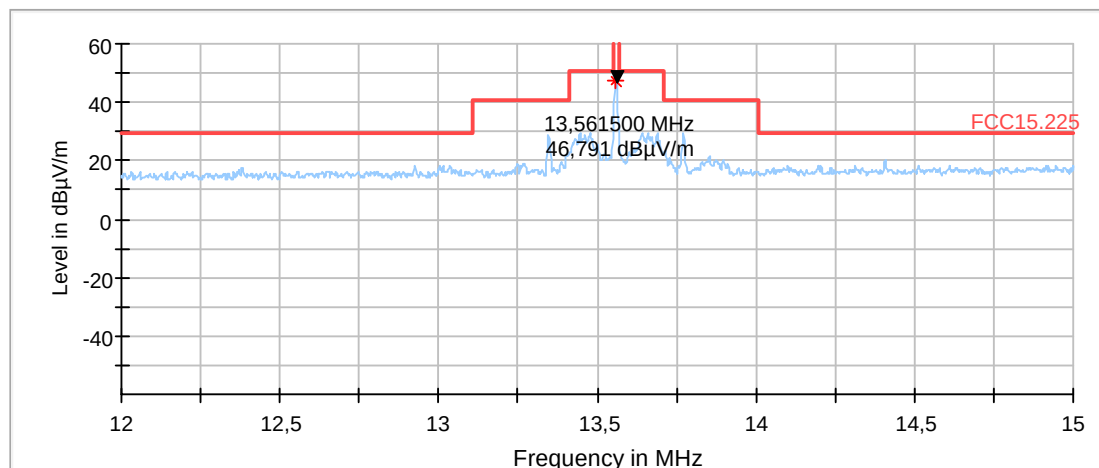
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.225 / RSS-210: Issue 11
Operator:	leic
Operating Mode:	TXRX
Environmental Conditions:	Humidity: 40 % rH; Temperature: 22.8 °C
Verdict:	Passed

EUT Information

EUT SN:	20250613_04
Power supply:	12 V DC car battery

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
13.559250	47.40	84.00	36.60	9.000	V	47.0	-1.5	-21.2	0.2

2.10_FCC_H-Field_TXRX_lying

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance

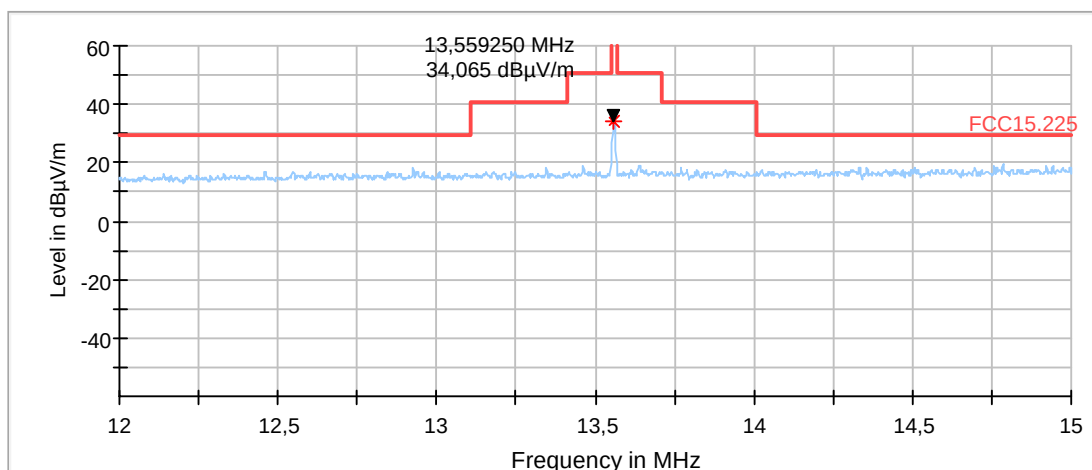
Version of Testsoftware: EMC32 V10.60.20
Distance correction: used accord. table, pls. see test report
Technical Data: Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test Standard: FCC 15.225 / RSS-210: Issue 11

Operator: leic
Operating Mode: TXRX
Environmental Conditions: Humidity: 40 % rH; Temperature: 22.8 °C
Verdict: Passed

EUT Information

EUT SN: 20250613_04
Power supply: 12 V DC car battery

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
13.559250	34.06	84.00	49.94	9.000	V	66.0	-1.5	-21.2	0.2

2.11_FCC_RSE_TXRX_standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance

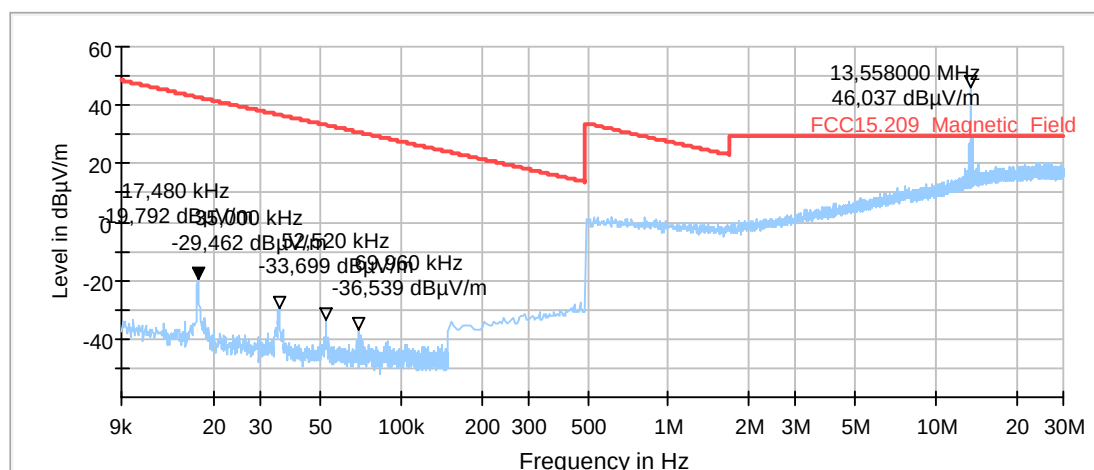
Version of Testsoftware: EMC32 V10.60.20
Distance correction: used accord. table, pls. see test report
Technical Data: Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: leic
Operating Mode: TXRX
Verdict: Passed

EUT Information

EUT SN: 20250613_04
Power supply: 12 V DC car battery

Full Spectrum



Remark: emission at 13.5 MHz is the wanted carrier frequency and not relevant to the limit

2.12_FCC_RSE_TXRX_lying

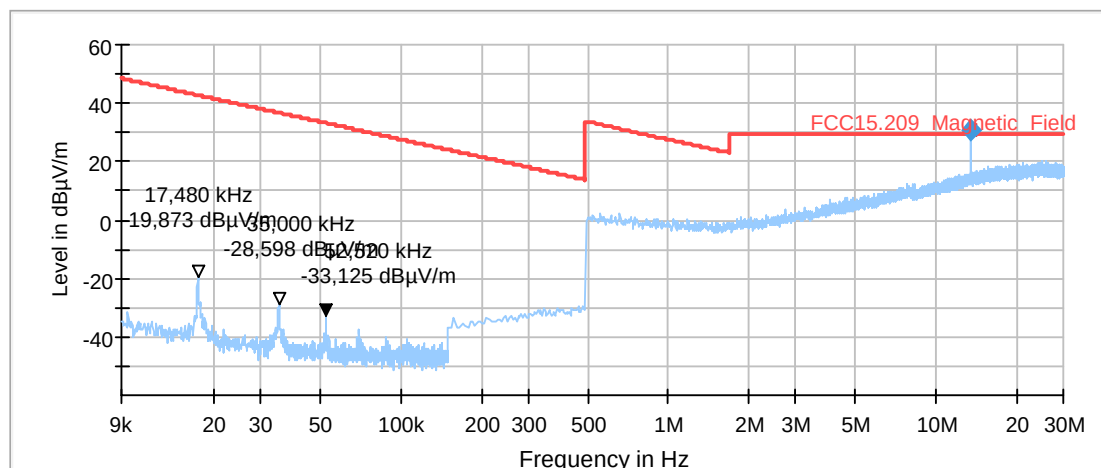
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	leic
Operating Mode:	TXRX
Verdict:	Passed

EUT Information

EUT SN:	20250613_04
Power supply:	12 V DC car battery

Full Spectrum



Remark: emission at 13.5 MHz is the wanted carrier frequency and not relevant to the limit

2.13_FCC_RSE_TX_standing

Common Information

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location: Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance

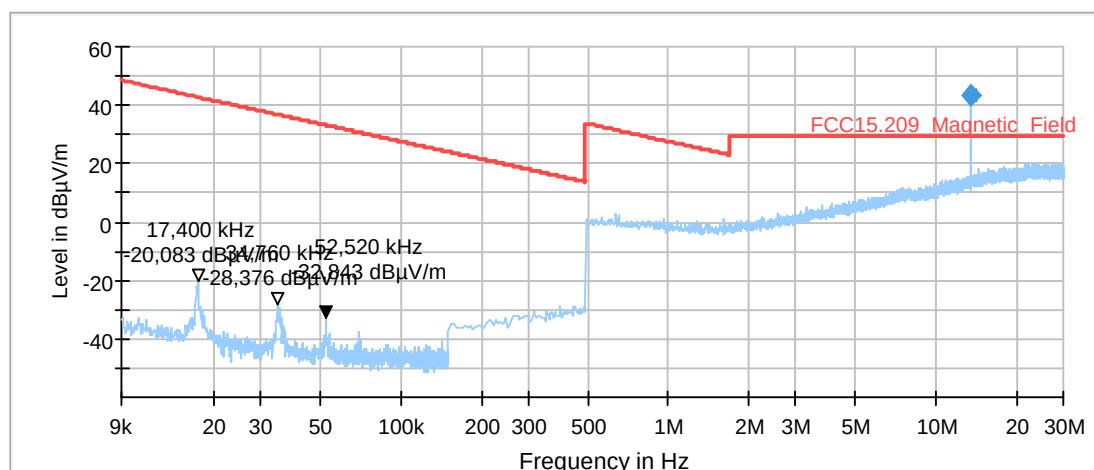
Version of Testsoftware: EMC32 V10.60.20
Distance correction: used accord. table, pls. see test report
Technical Data: Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
Used filter: bypass
Test Standard: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: leic
Operating Mode: TX
Verdict: passed

EUT Information

EUT SN: 20250613_01
Power supply: 12 V DC car battery

Full Spectrum



Remark: emission at 13.5 MHz is the wanted carrier frequency and not relevant to the limit

2.14_FCC_RSE_TX_lying

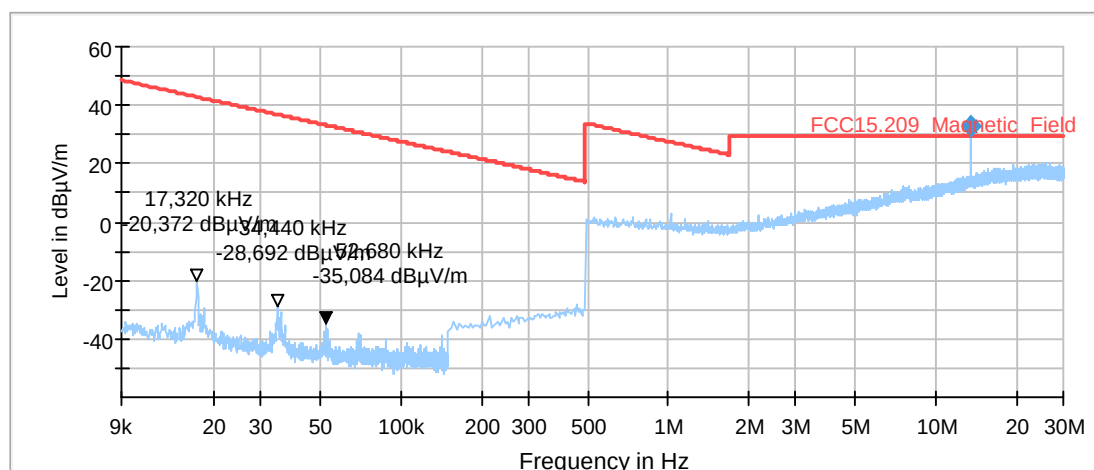
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.60.20
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 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	leic
Operating Mode:	TX
Verdict:	passed

EUT Information

EUT SN:	20250613_01
Power supply:	12 V DC car battery

Full Spectrum



Remark: emission at 13.5 MHz is the wanted carrier frequency and not relevant to the limit

3.06_FCC_RSE_TXRX_standing

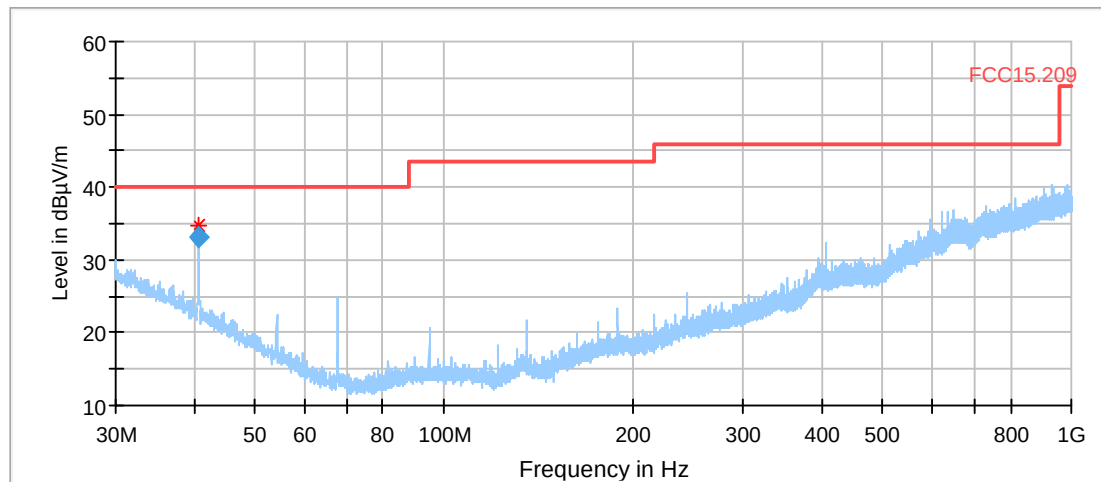
Common Information

Test Description: Radiated field strength emission in 3m distance
Test Site: cetecom advanced GmbH
Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation: horizontal/vertical

Environmental Conditions: Humidity: 50%rH; Temperature: 20°C
Operator Name: leic
Operating Mode: TXRX
Verdict: Passed

EUT Information

EUT SN: 20250613_04
Power supply: 12 V DC car battery



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
40.678000	33.24	40.00	6.76	120.000	105.0	V	73.0	16.2	0.0	0.6

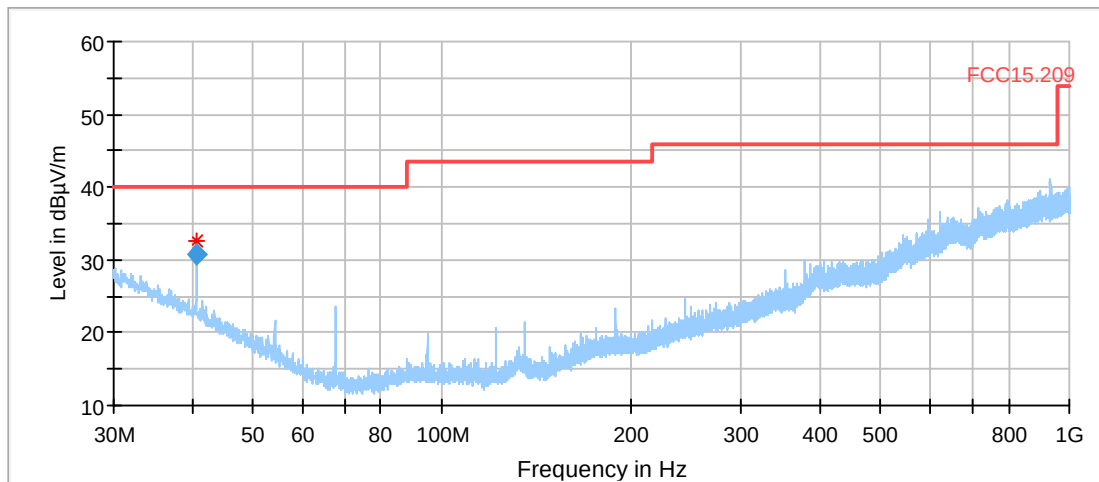
3.07_FCC_RSE_TXRX_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Operator Name:	leic
Operating Mode:	TXRX
Verdict:	Passed

EUT Information

EUT SN:	20250613_04
Power supply:	12 V DC car battery



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
40.678000	30.64	40.00	9.36	120.000	105.0	V	249.0	16.2	0.0	0.6

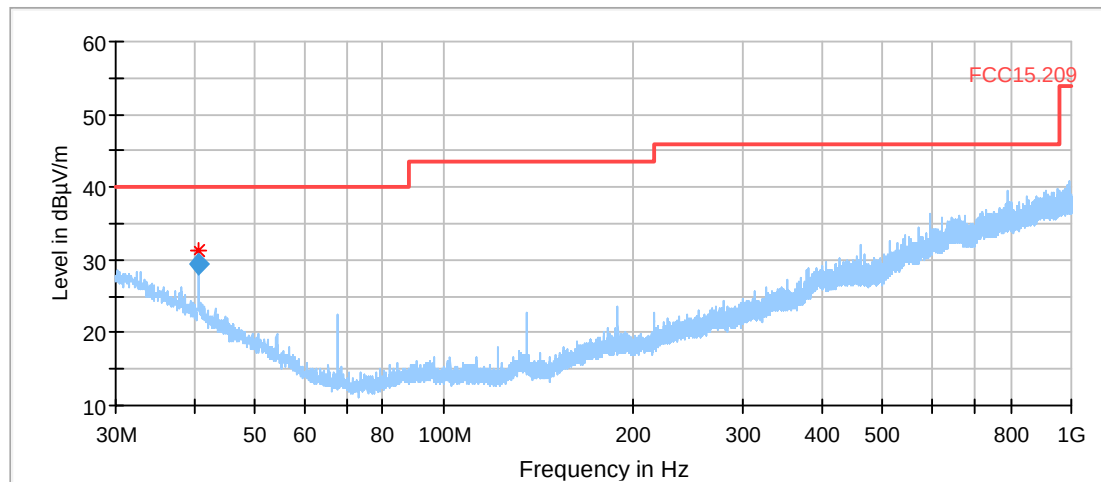
3.08_FCC_RSE_TX_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Operator Name:	leic
Operating Mode:	TX
Verdict:	Passed

EUT Information

EUT SN:	20250613_01
Power supply:	12 V DC car battery



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
40.678000	29.47	40.00	10.53	120.000	105.0	V	132.0	16.2	0.0	0.6

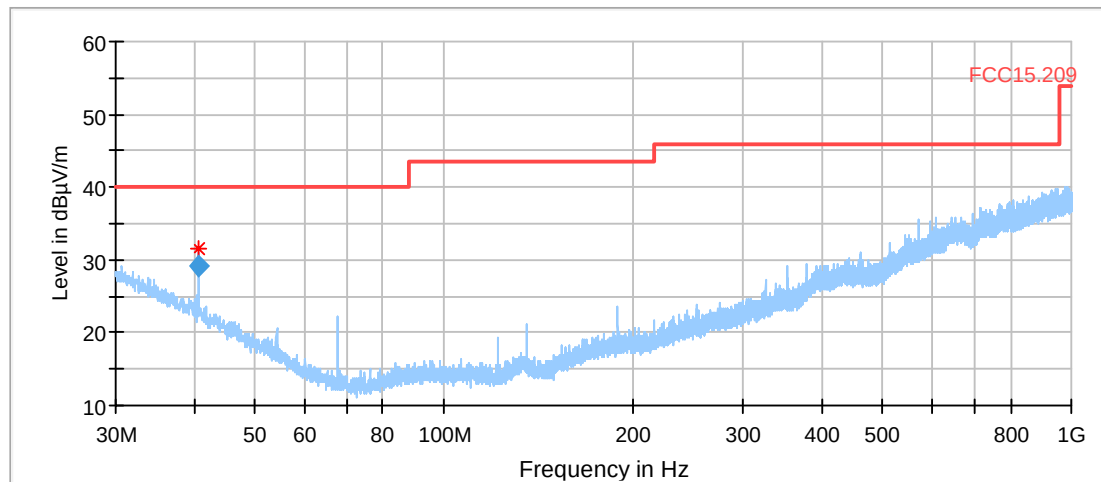
3.09_FCC_RSE_TX_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Operator Name:	leic
Operating Mode:	TX
Verdict:	Passed

EUT Information

EUT SN:	20250613_01
Power supply:	12 V DC car battery



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
40.678000	29.03	40.00	10.97	120.000	109.0	V	166.0	16.2	0.0	0.6

End Of Annex 1