

**Annex 4: Diagrams to
TEST REPORT
No.: 6-0491-14-1-23d**

According to:
FCC Regulations
Part 27

for

peiker acoustic GmbH & Co. KG
GSM/W-CDMA/LTE Device
ATM-01 T1-RoW-4G
(LTE-Technology)

FCC-ID: QWY-ATM-T-132







Laboratory Accreditation and Listings			
 Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 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	 LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
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1. Measurement diagrams LTE-mode

1.1. Magnetic emissions radiated (LTE Band 7)

Diagram No. 2.15_LTE7_Ch21180_BW10_50RB

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
Version of Test software:	EMC32 V8.51.0
Distance correction:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operating Mode:	LTE7 QPSK, Ch21180, BW10MHz, 50RB
Operator:	dpa
Operating conditions:	Humidity: 56%rH; Temperature: 24°C
Power during tests:	14VDC
Comment 1:	EUT in vertical position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

FCC 15.209_magn hor+vert

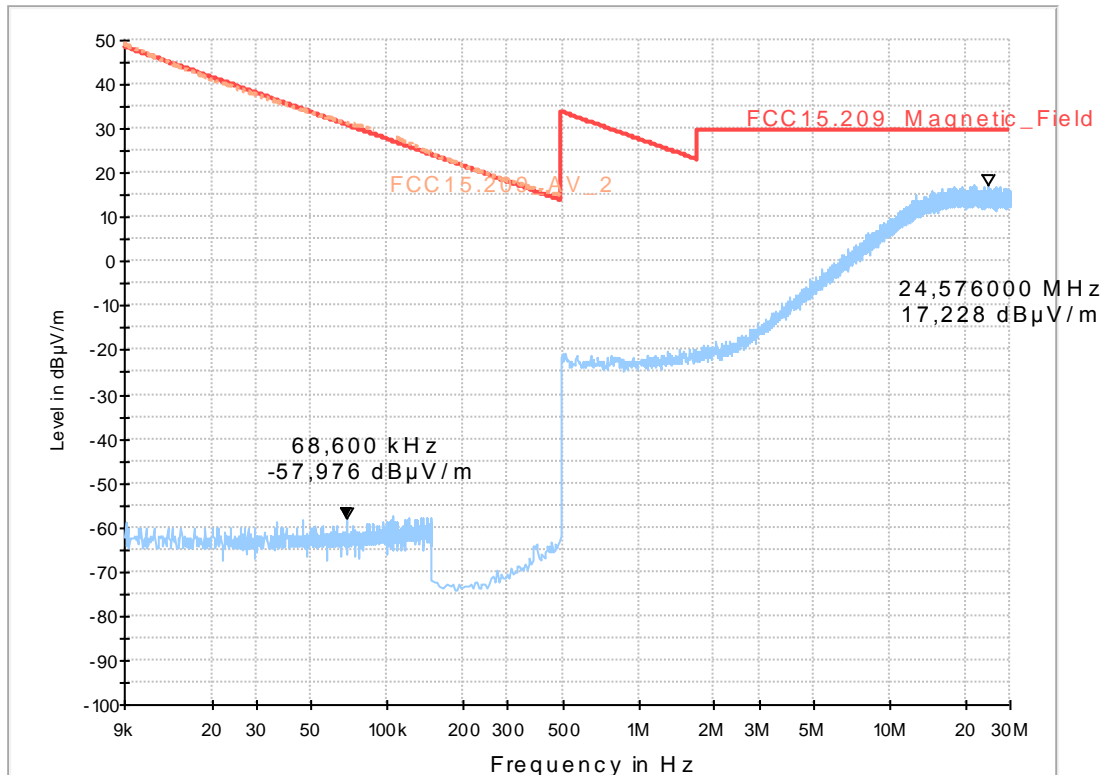


Diagram No. 2.15a_LTE7_Ch21075_BW5_25RB

Common Information

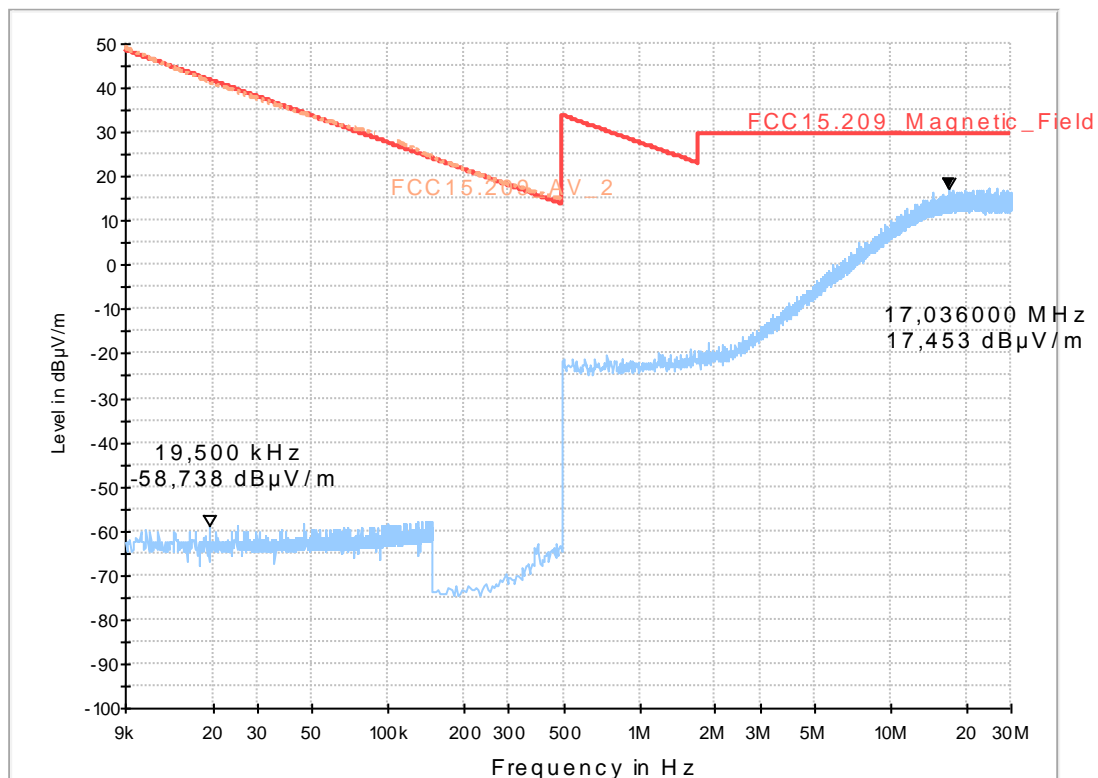
Test description:	Magnetic Field strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V8.51.0
Distance correction:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operating Mode:	LTE7 QPSK, Ch21075, BW5MHz, 25RB
Operator:	dpa
Operating conditions:	Humidity: 56%rH; Temperature: 24°C
Power during tests:	14VDC
Comment 1:	EUT in vertical position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

FCC15.209_magn hor+vert



1.2. Spurious emissions radiated (LTE Band 7)

8.071a_20775_5MHz_25RB_QPSK

Common Information

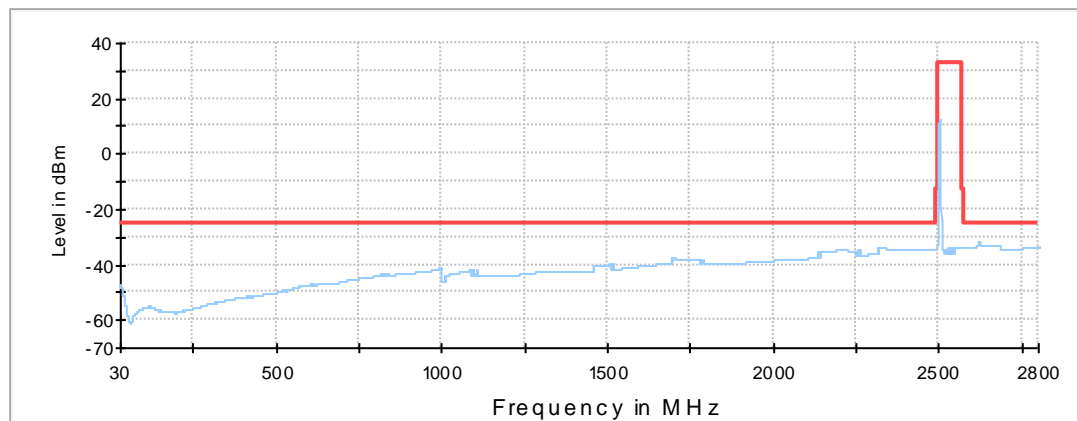
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20775/ BW:5MHz / RB:25
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kiq



Remark: Carrier visible on diagram. Not relevant for spurious results and band-edge results. See separate diagrams for band-edge measurement.

8.071b_20775_5MHz_25RB_QPSK

Common Information

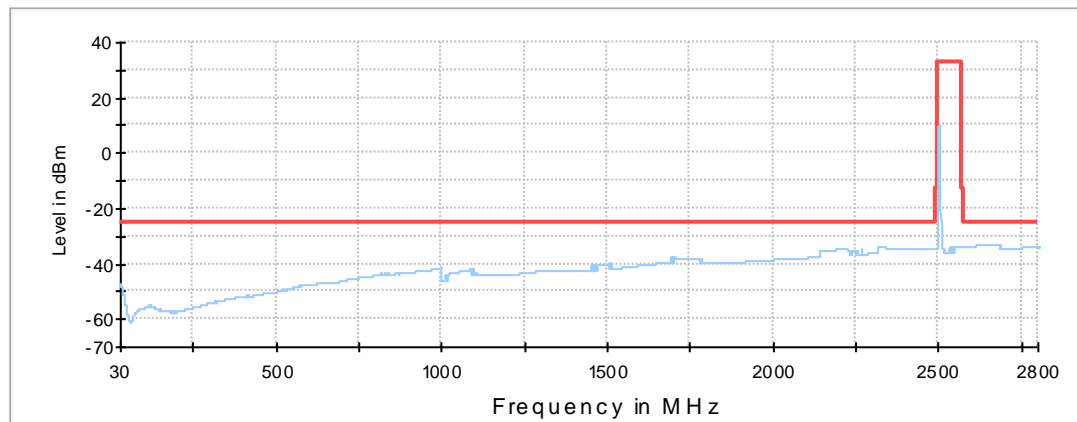
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20775/ BW:5MHz / RB:25
Environmental Conditions:	Humidity: 56%RH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



Remark: Carrier visible on diagram. Not relevant for spurious results and band-edge results. See separate diagrams for band-edge measurement.

8.072a_21075_5MHz_25RB_QPSK**Common Information**

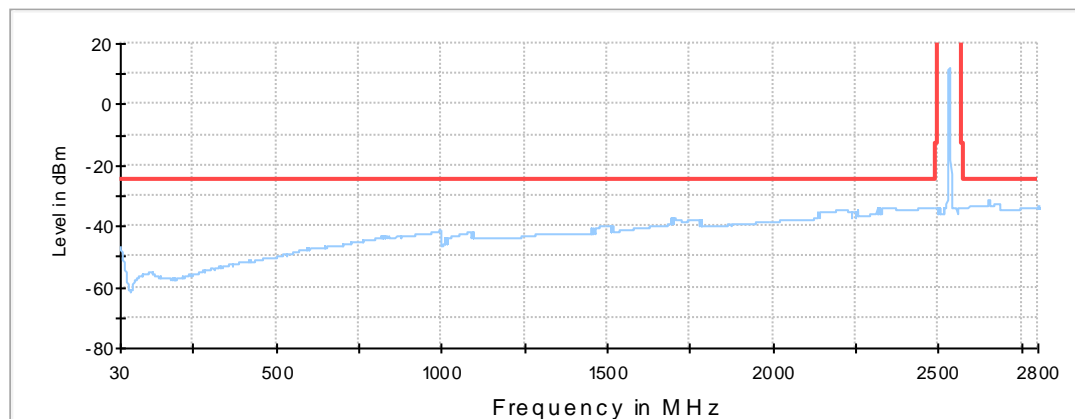
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21075/ BW:5MHz / RB:25
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



8.072b_21075_5MHz_25RB_QPSK**Common Information**

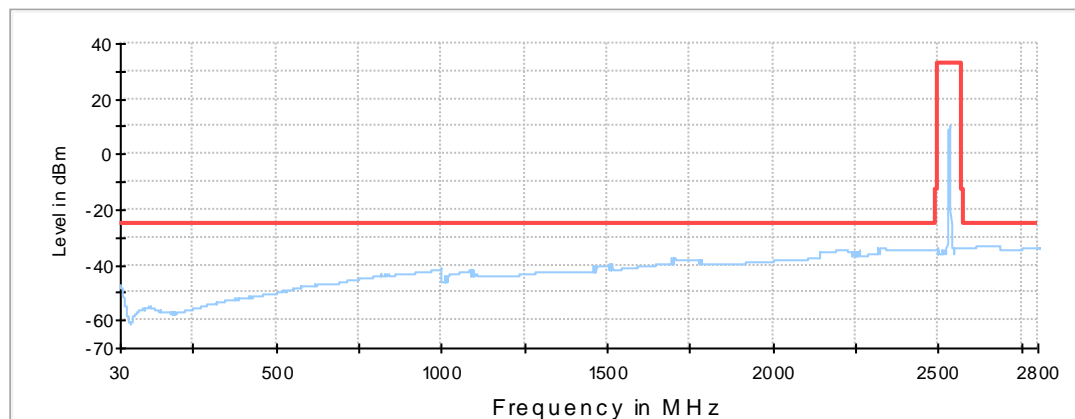
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21075/ BW:5MHz / RB:25
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kiq



8.073a_21180_10MHz_50RB_QPSK**Common Information**

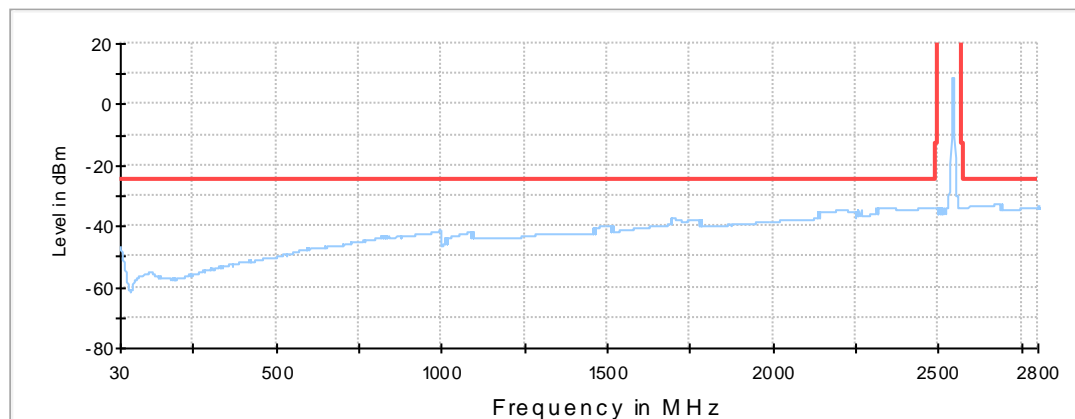
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21180/ BW:10MHz / RB:50
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



8.073b_21180_10MHz_50RB_QPSK

Common Information

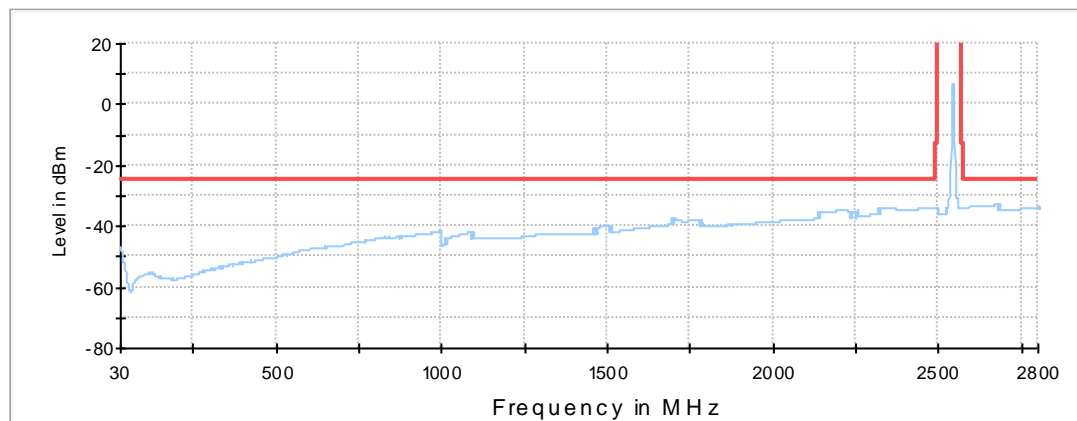
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21180/ BW: 10/ RB: 50
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



8.074a_21400_10MHz_1RB_high_QPSK

Common Information

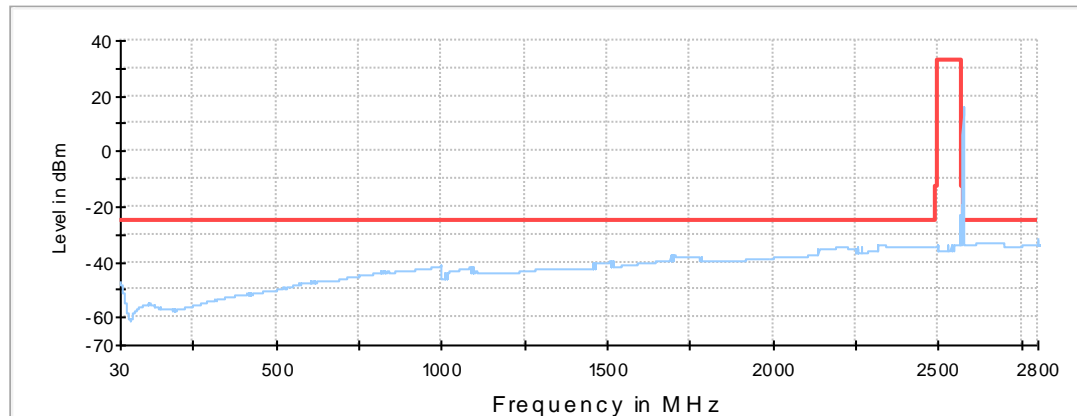
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21400/ BW:10MHz / RB:1 high
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



Remark: Carrier visible on diagram. Not relevant for spurious results and band-edge results. See separate diagrams for band-edge measurement.

8.074b_21400_10MHz_1RB_high_QPSK

Common Information

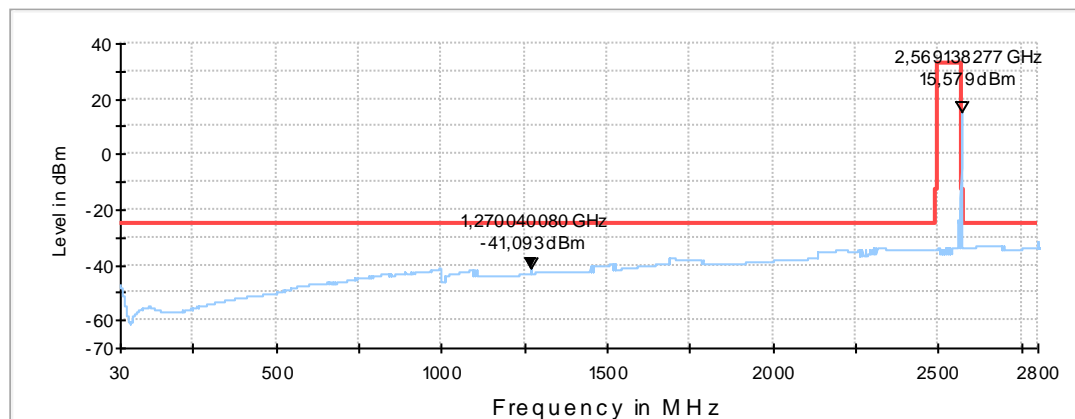
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21400/ BW: 10MHz/ RB:1 / Position: high
Environmental Conditions:	Humidity: 58%rH; Temperature: 25,1C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
Remarks:	EUT - laying/standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_Sweep1_FCC_Part27_LTE7_TX_all_channels_30M-2.8GHz_no_kip



Remark: Carrier visible on diagram. Not relevant for spurious results and band-edge results. See separate diagrams for band-edge measurement.

8.075a_20775_5MHz_25RB_QPSK

Common Information

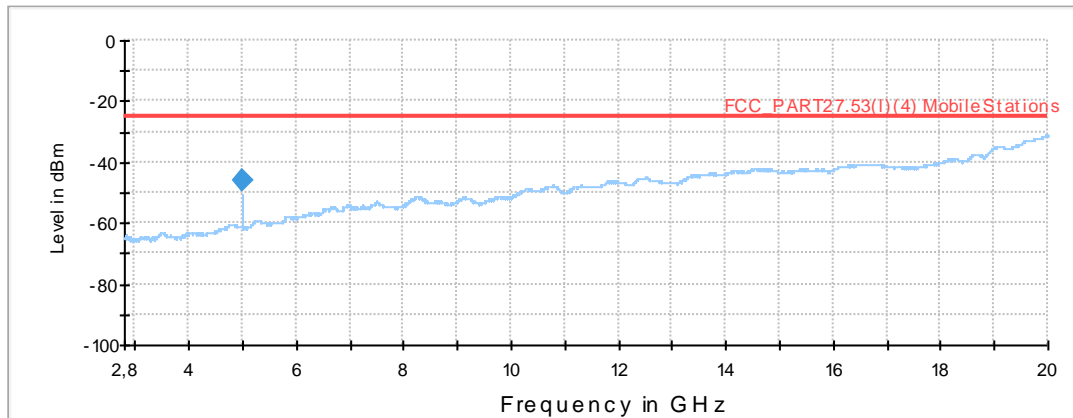
Test Description: Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20775/ BW:5MHz / RB:25
 Environmental Conditions: Humidity: 56%rH; Temperature: 23°C
 Test SW Version: EMC32 V8.53.0
 Operator: FTe
 Remarks: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1c
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: 0000500312
 Connected Interfaces: power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5004.895643	-45.9	1000.0	1000.000	V	102.0	-91.2	32.9	-13.0

8.075b_20775_5MHz_25RB_QPSK

Common Information

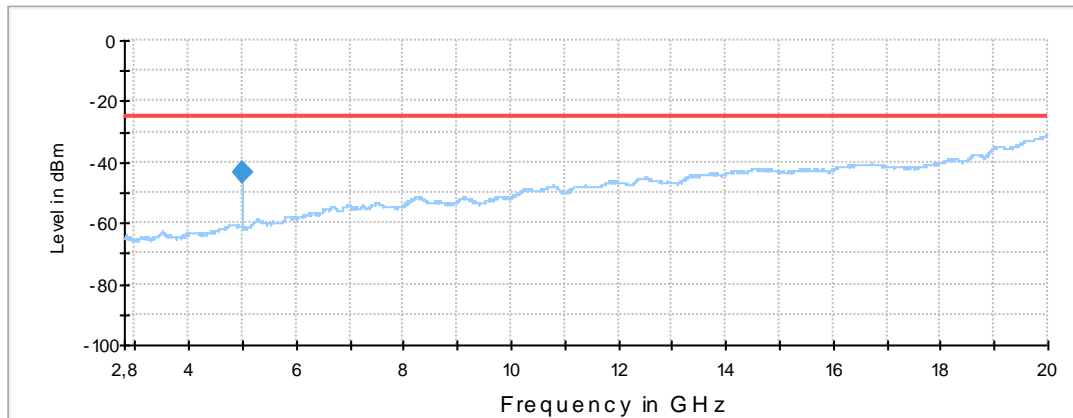
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20775/ BW: 5MHz/ RB: 25/ Position: NA
Environmental Conditions:	Humidity: 57%rH; Temperature: 26C
Test SW Version:	EMC32 V8.53.0
Operator:	GAr
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5005.220240	-43.7	1000.0	1000.000	H	-6.0	-91.2	18.7	-25.0

8.076a_21075_5MHz_25RB_QPSK

Common Information

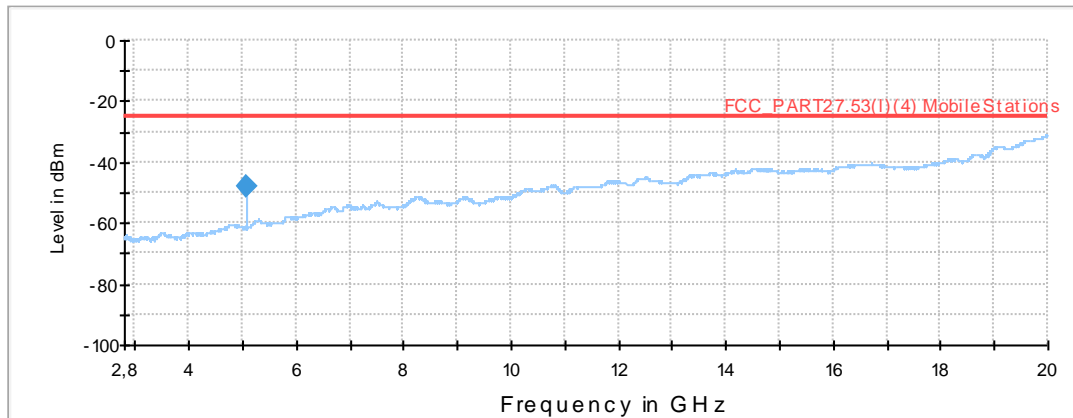
Test Description: Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21075/ BW:5MHz / RB:25
 Environmental Conditions: Humidity: 56%rH; Temperature: 23°C
 Test SW Version: EMC32 V8.53.0
 Operator: FTe
 Remarks: EUT - laying position

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1c
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: 0000500312
 Connected Interfaces: power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5065.380762	-47.7	1000.0	1000.000	V	102.0	-91.1	34.7	-13.0

8.076b_21075_5MHz_25RB_QPSK

Common Information

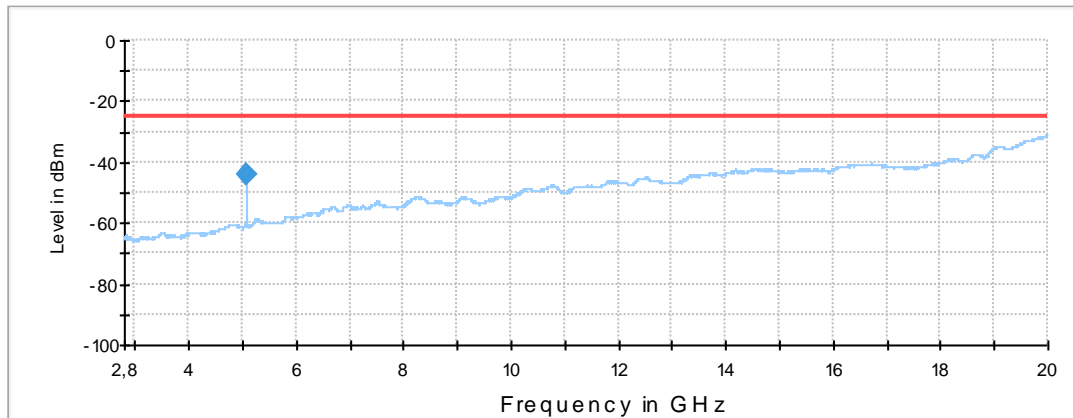
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21075/ BW: 5/ RB: 25/ Position: NA
Environmental Conditions:	Humidity: 58%rH; Temperature: 26C
Test SW Version:	EMC32 V8.53.0
Operator:	GAr
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5064.959920	-44.0	1000.0	1000.000	H	45.0	-91.1	19.0	-25.0

8.077a_21180_10MHz_50RB_QPSK

Common Information

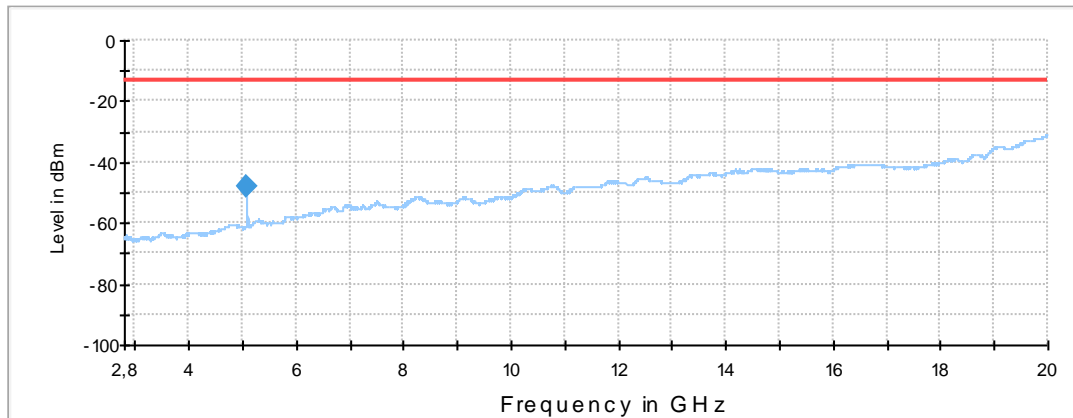
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21180/ BW: 10/ RB: 50
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5086.062125	-48.0	1000.0	1000.000	V	101.0	-91.0	35.0	-13.0

8.077b_21200_10MHz_50RB_QPSK

Common Information

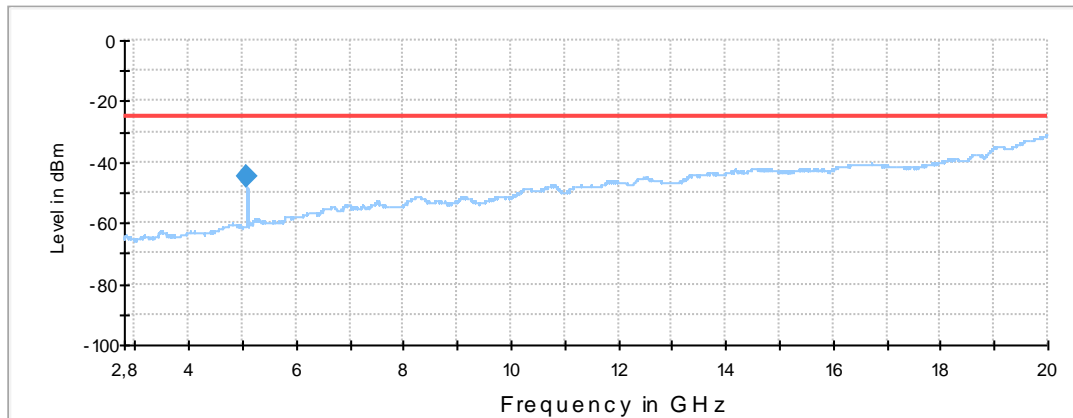
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21200/ BW: 10/ RB: 50/ Position: High
Environmental Conditions:	Humidity: 58%rH; Temperature: 26C
Test SW Version:	EMC32 V8.53.0
Operator:	GAr
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipf



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5090.010020	-45.0	1000.0	1000.000	H	52.0	-90.9	20.0	-25.0

8.078a_21400_10MHz_1RB_high_QPSK

Common Information

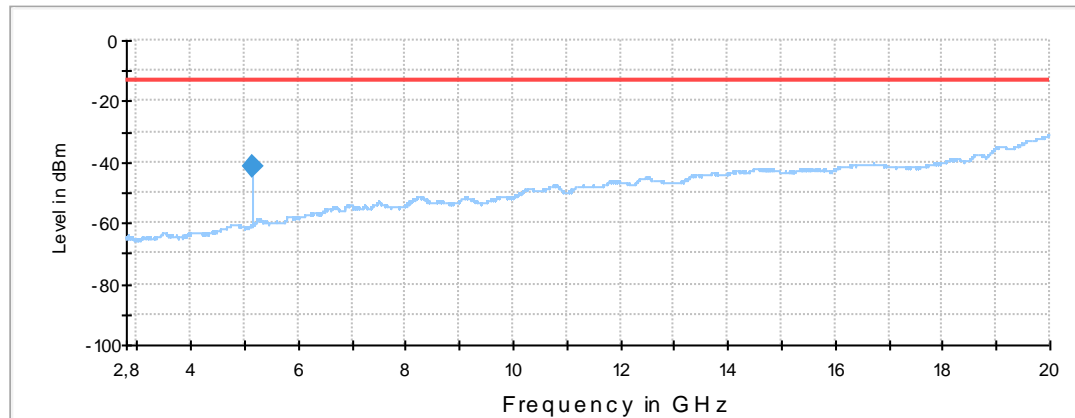
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21400/ BW: 10MHz/ RB: 1 high
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	FTe
Remarks:	EUT - laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipr



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5148.587174	-41.3	1000.0	1000.000	V	107.0	-90.4	28.3	-13.0

8.078b_21400_10MHz_1RB_high_QPSK

Common Information

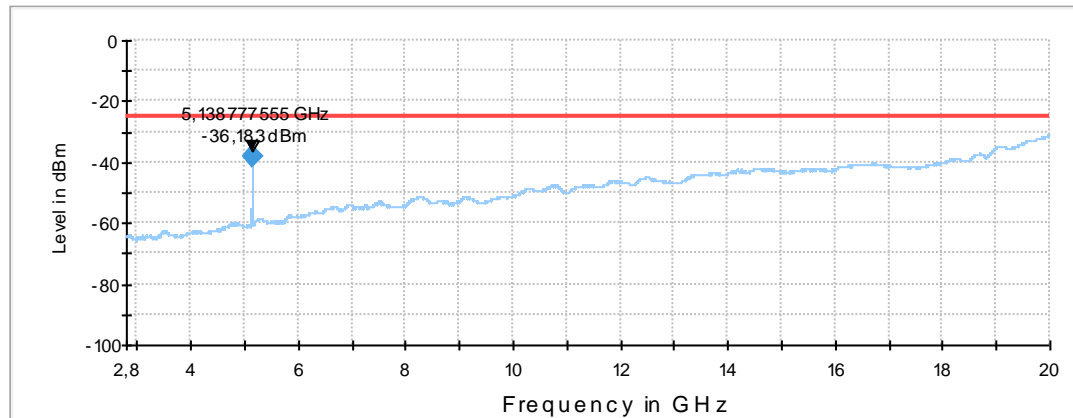
Test Description:	Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21400/ BW: 10MHz/ RB:1 / Position: high
Environmental Conditions:	Humidity: 58%rH; Temperature: 25,1C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1c
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	0000500312
Connected Interfaces:	power cable, antenna cable, TRX antenna, DTX antenna, GPS antenna, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030421_Sweep2_FCC_Part27_LTE7_TX_all_channels_2.8-20GHz_no_kipr



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
5138.867735	-38.3	1000.0	1000.000	H	58.0	-90.5	13.3	-25.0

8.079a_20775_5MHz_25RB_QPSK.Pdf

Common Information

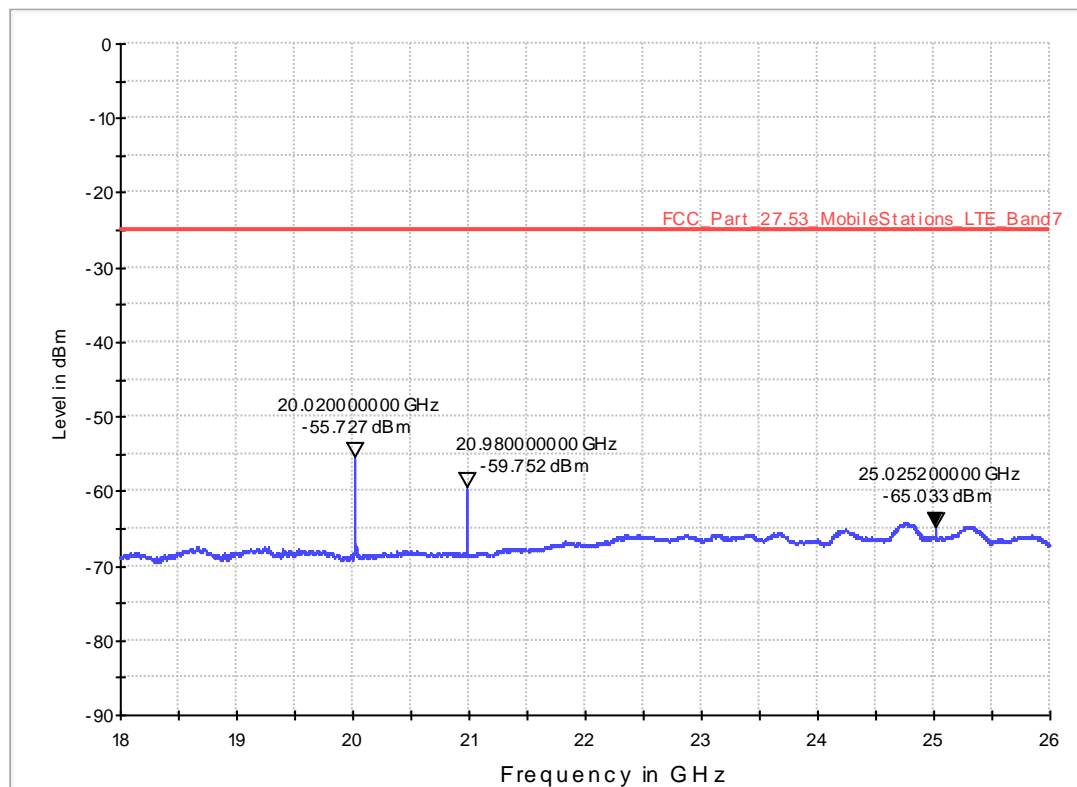
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 20775/ 25 RB/ BW= 5MHz / Modulation=QPSK
Comment:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.079b_20775_5MHz_25RB_QPSK.Pdf

Common Information

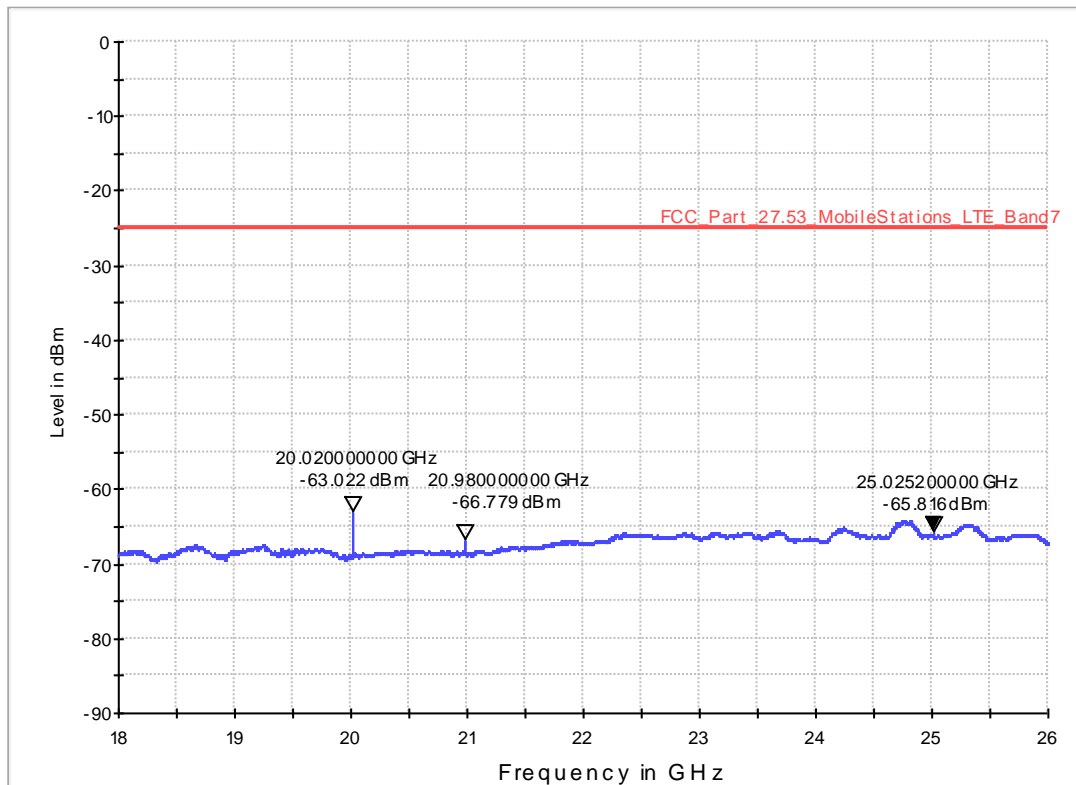
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 20775/ 25 RB/ BW= 5MHz / Modulation=QPSK
Comment:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.080a_21075_5MHz_25RB_QPSK.Pdf

Common Information

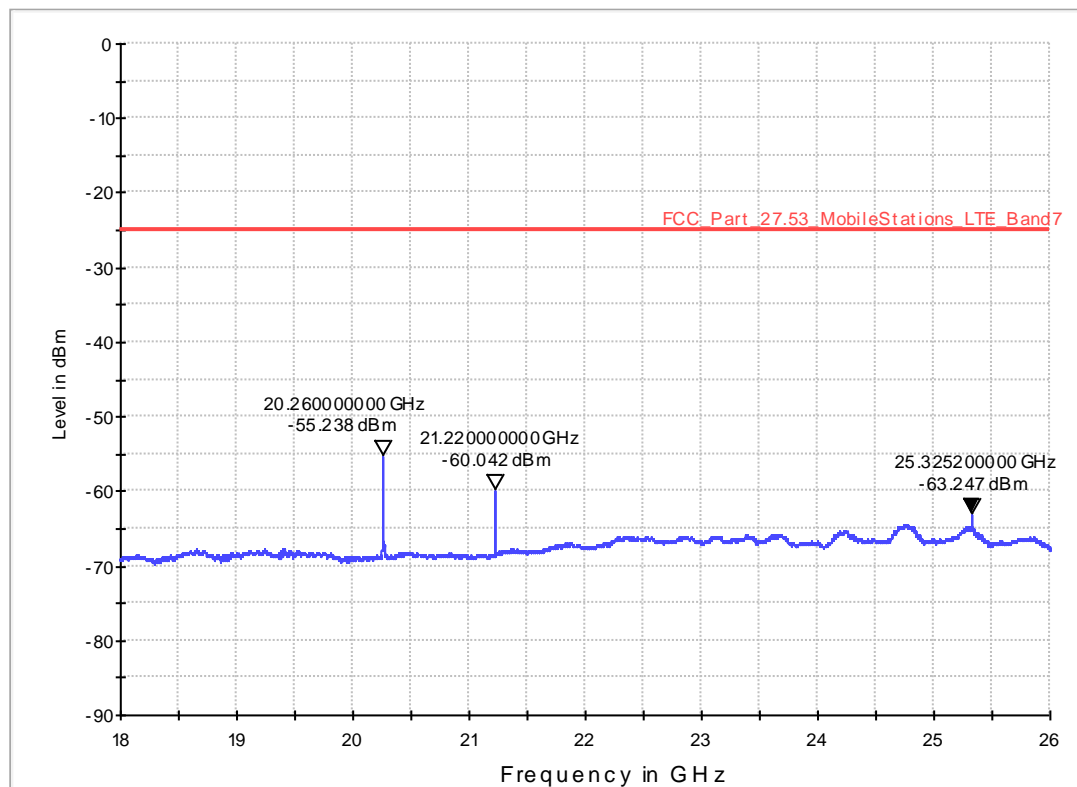
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21075/ 25 RB/ BW= 5MHz / Modulation=QPSK
Comment:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.080b_21075_5MHz_25RB_QPSK.Pdf

Common Information

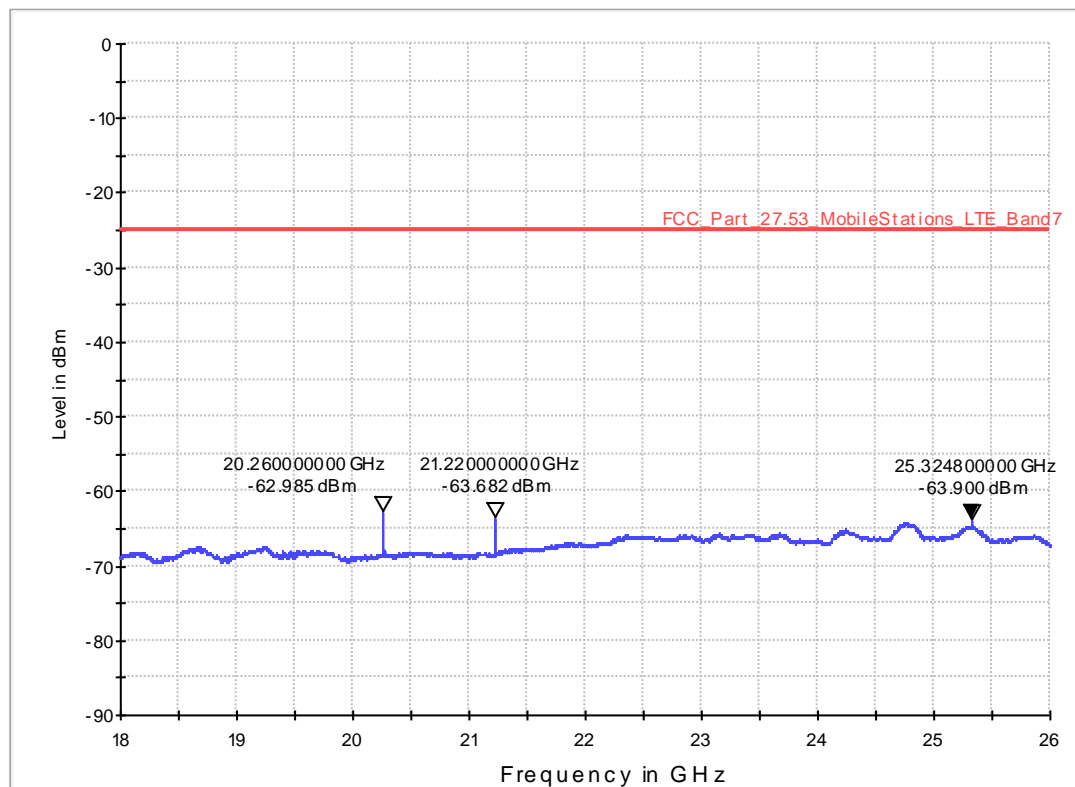
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21075/ 25 RB/ BW= 5MHz / Modulation=QPSK
Comment:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.081a_21180_10MHz_50RB_QPSK.Pdf

Common Information

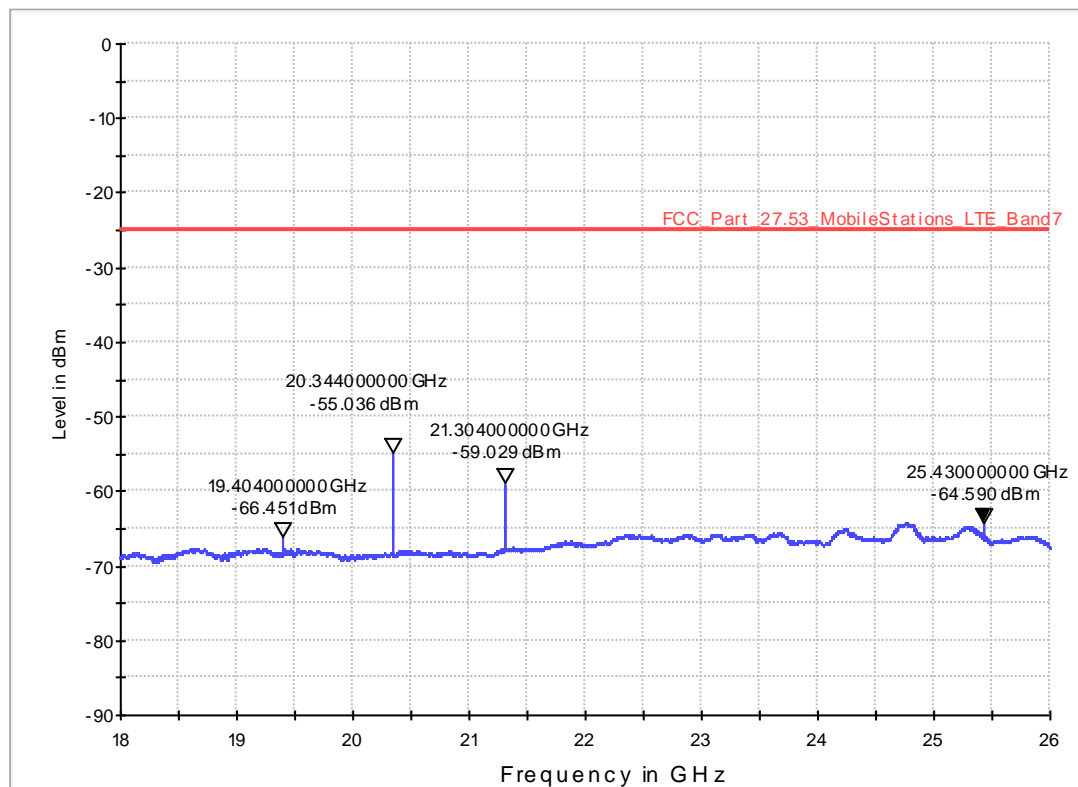
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21180/ 50 RB/ BW= 10MHz / Modulation=QPSK
Comment:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.081b_21180_10MHz_50RB_QPSK.Pdf

Common Information

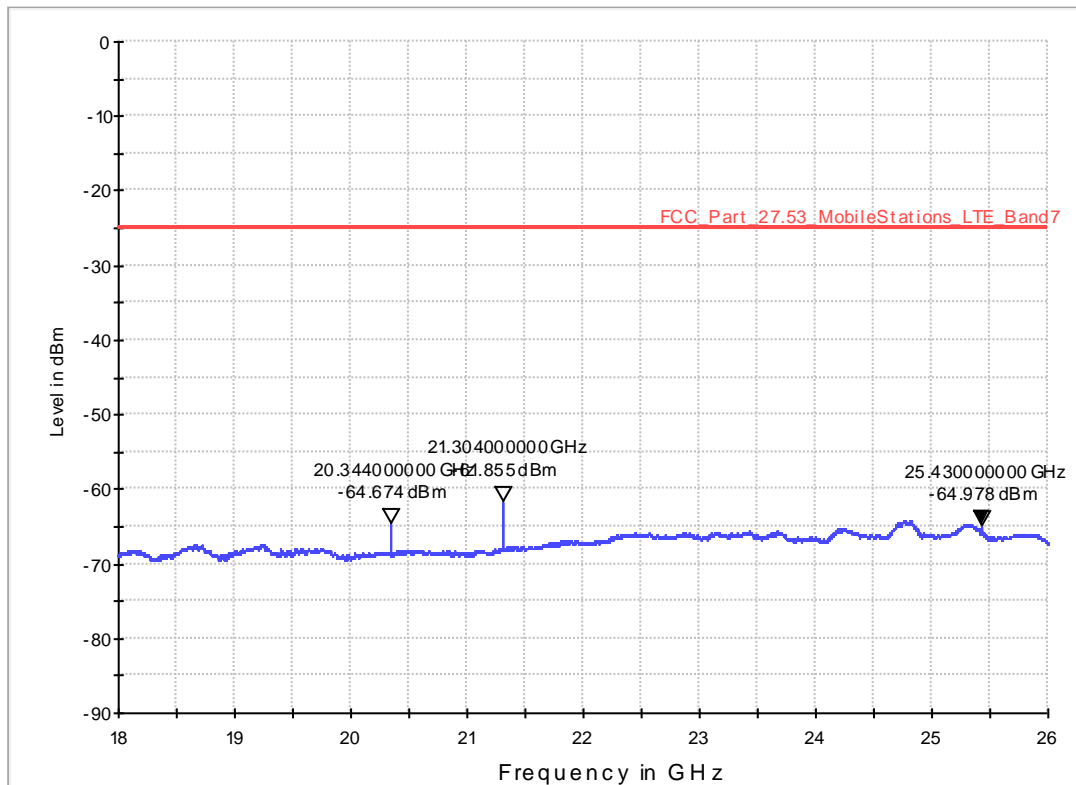
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21180/ 50 RB/ BW= 10MHz / Modulation=QPSK
Comment:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.082a_21200_10MHz_50RB_QPSK.Pdf

Common Information

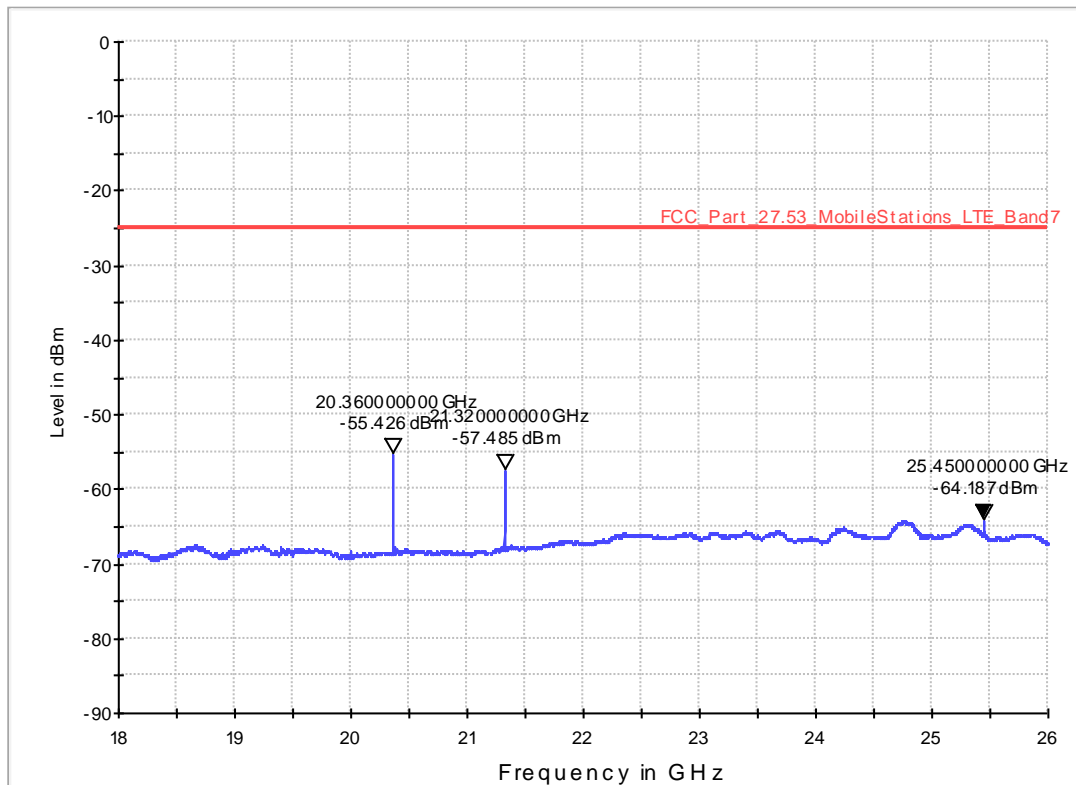
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21200/ 50 RB/ BW= 10MHz / Modulation=QPSK
Comment:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.082b_21200_10MHz_50RB_QPSK.Pdf

Common Information

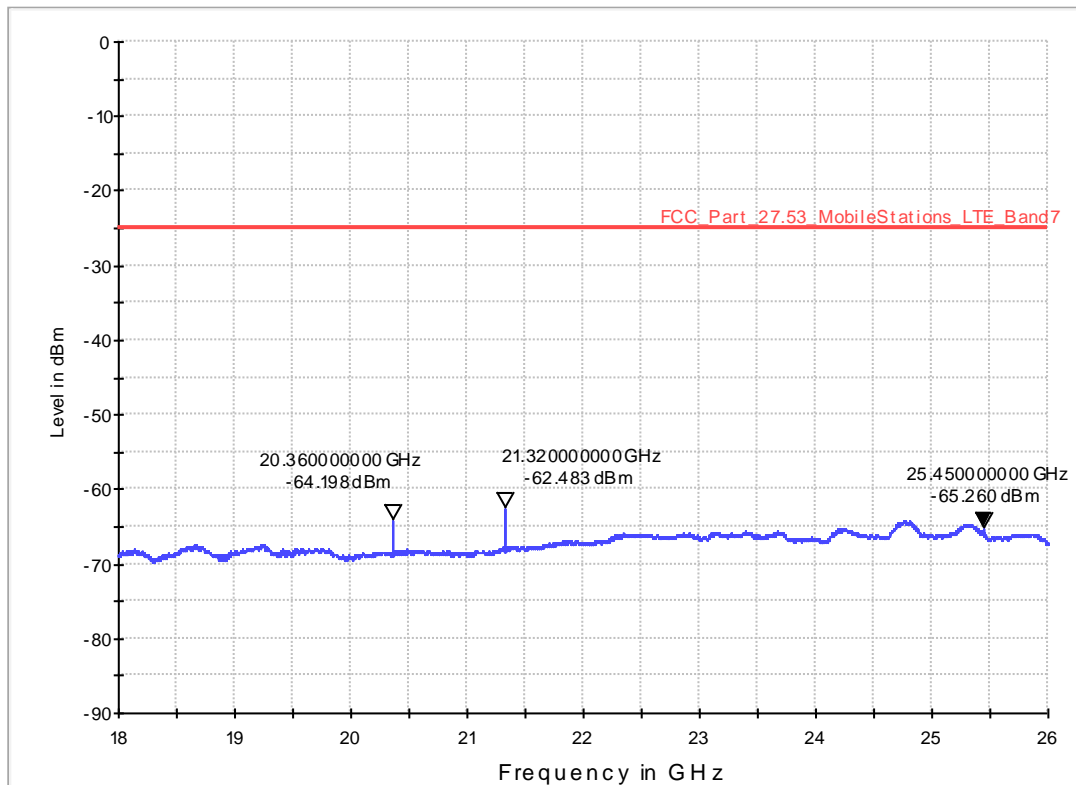
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21200/ 50 RB/ BW= 10MHz / Modulation=QPSK
Comment:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.083a_21400_10MHz_1RB_high_QPSK.Pdf

Common Information

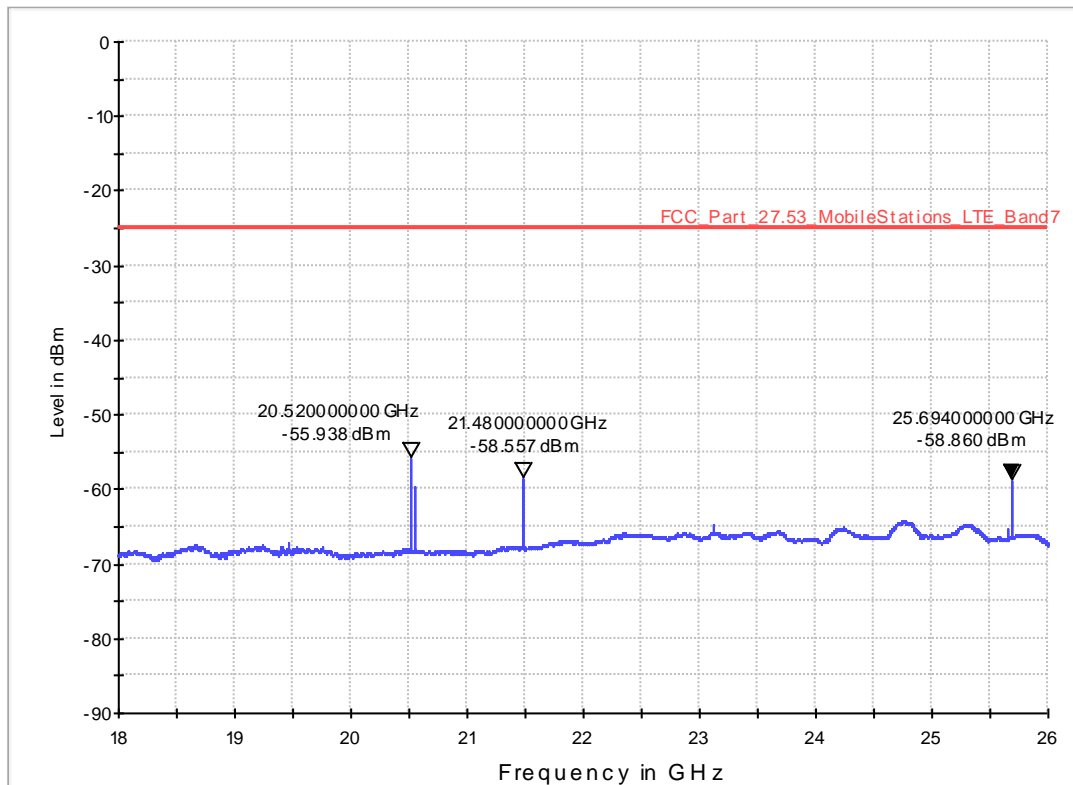
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21400/ 1 RB high/ BW= 10MHz / Modulation=QPSK
Comment:	EUT standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

8.083b_21400_10MHz_1RB_high_QPSK.Pdf

Common Information

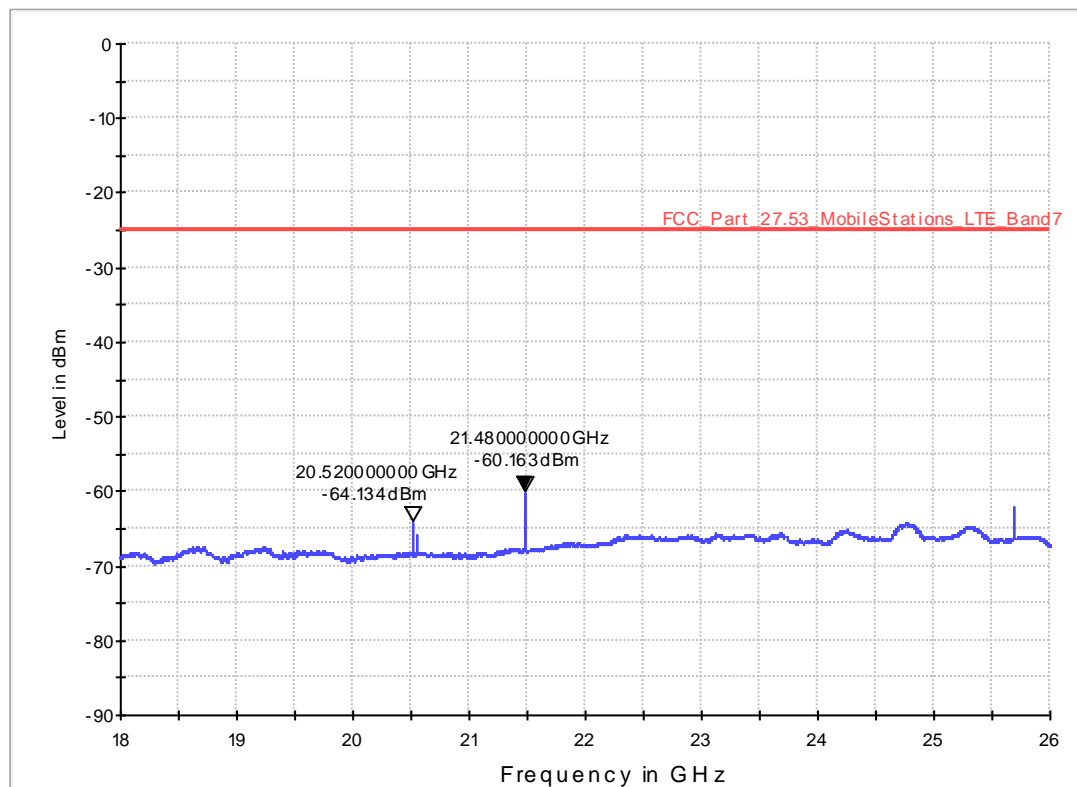
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	LTE Band7 TX: TX - Channel 21400/ 1 RB high/ BW= 10MHz / Modulation=QPSK
Comment:	EUT laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan3_19.5_26GHz_Radiated_RMS [EMI radiated]

Hardware Setup: HW08_15G-
26G_radiated_ESU_dBm_PreampMiteq40G_1m_distance_dBm
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
18 GHz - 26 GHz	400 kHz	RMS	1 MHz	0.002 s	0 dB

1.3. Radiated emissions – band-edge (LTE Band 7)

1.3.1. Band - edge low

9.01_BE_R_Ch20775_1RB_low_QPSK

Common Information

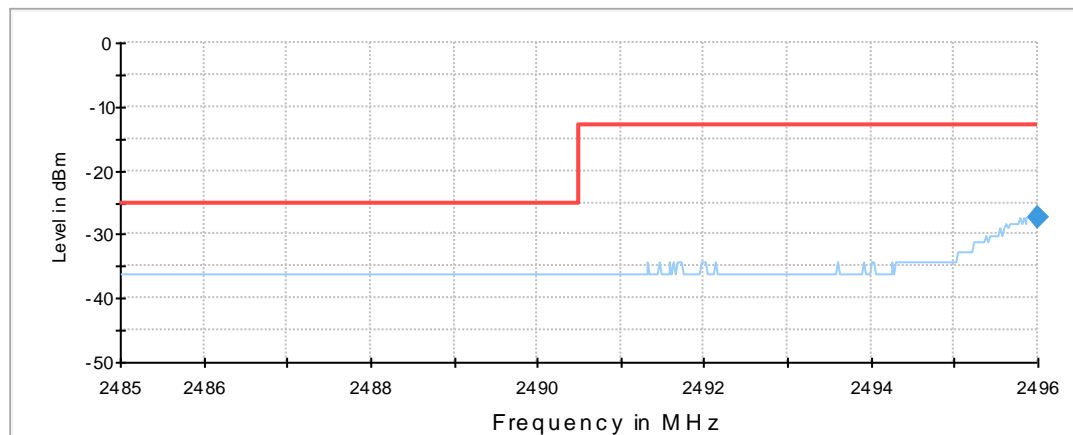
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 20775/ BW: 5M/ RB: 1/ Position: low/QPSK
Environmental Conditions:	Humidity: 47%rH; Temperature: 23,2°C
Test SW Version:	EMC32 V8.53.0
Operator:	Hla
Remarks:	EUT - laying position (Worst-Case)

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-27.3	1000.0	1000.000	V	123.0	-59.6	14.3	-13.0

9.02_BE_R_Ch20775_25RB_QPSK

Common Information

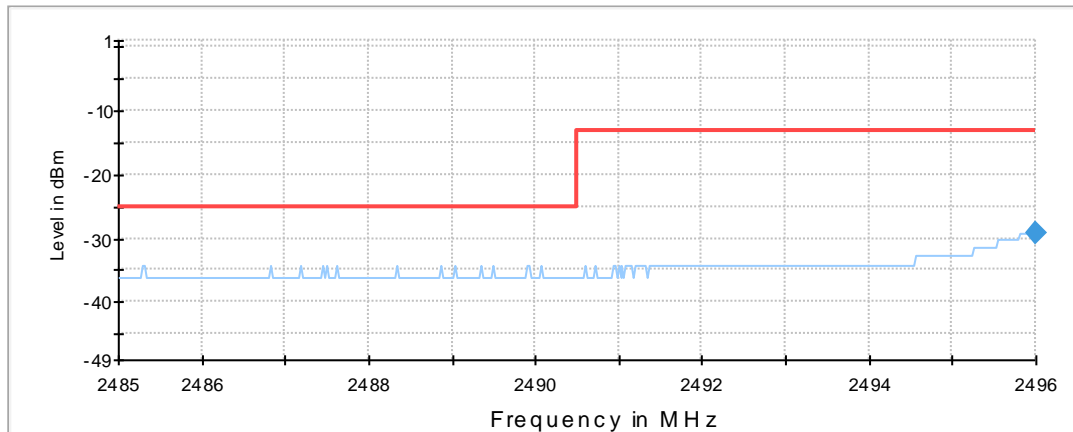
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20775/ BW: 5M/ RB: 25/ Position: --/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2496.000000	-29.1	1000.0	1000.000	V	147.0	-59.6	16.1	-13.0

9.03_BE_R_Ch20775_1RB_low_QAM

Common Information

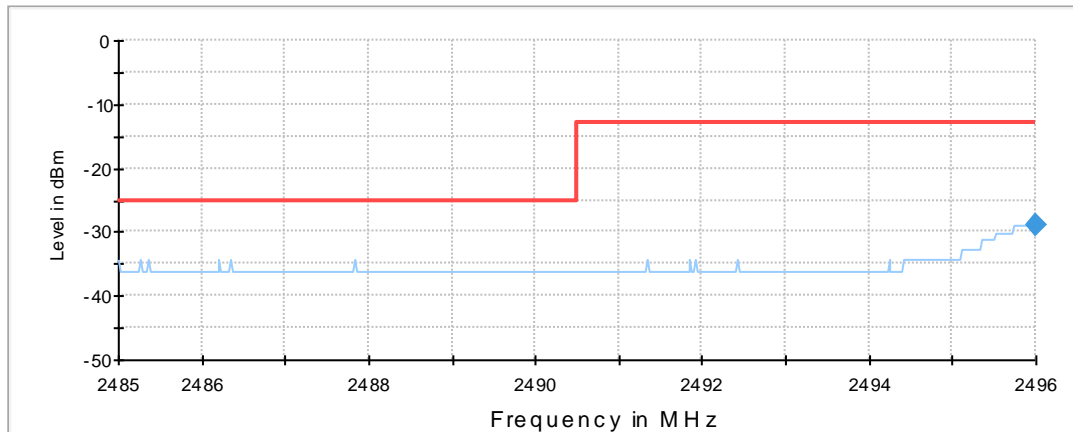
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20775/ BW: 5M/ RB: 1/ Position: low/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-29.1	1000.0	1000.000	V	123.0	-59.6	16.1	-13.0

9.04_BE_R_Ch20775_25RB_QAM

Common Information

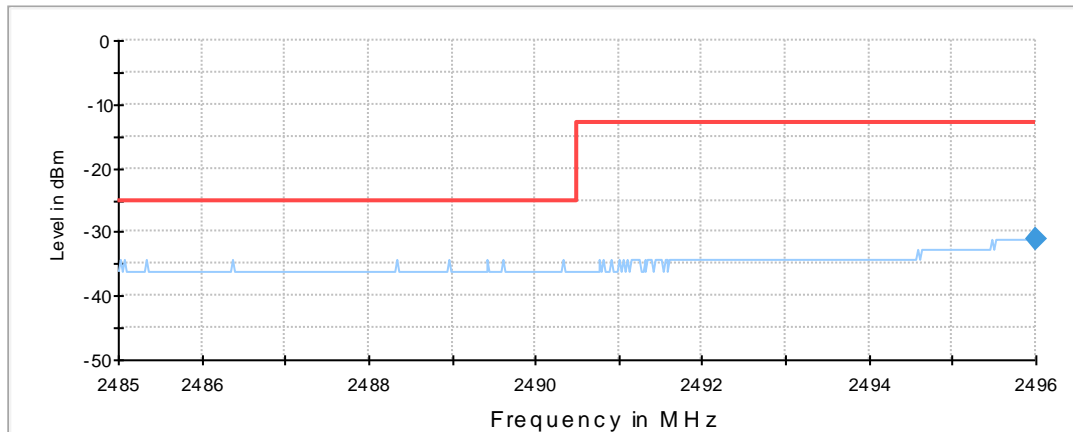
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20775/ BW: 5M/ RB: 25/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-31.3	1000.0	1000.000	V	157.0	-59.6	18.3	-13.0

9.05_BE_R_Ch20800_1RB_QPSK

Common Information

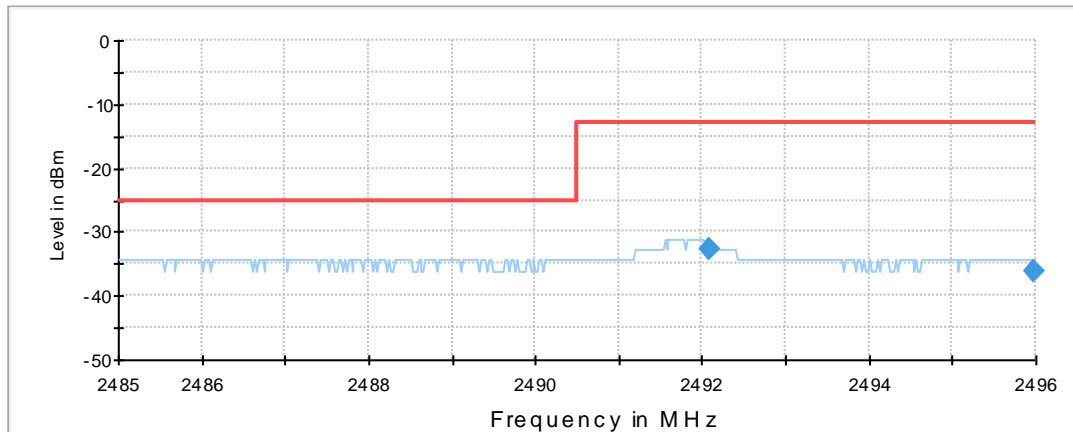
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20800/ BW:10M/ 1 RB/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - standing position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2492.076152	-32.6	1000.0	1000.000	H	192.0	-59.6	19.6	-13.0
...

9.06_BE_R_Ch20800_1RB_QAM

Common Information

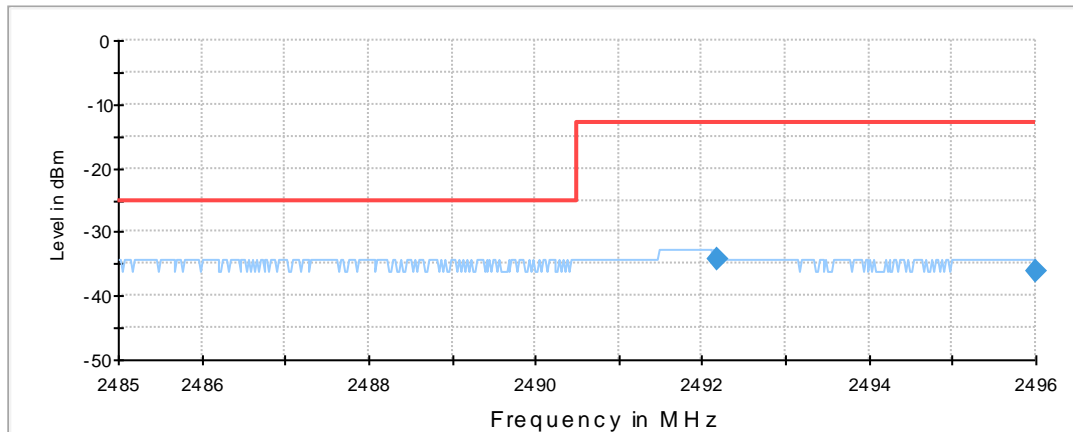
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20800/ BW:10M/ 1 RB/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - standing position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2492.186373	-34.2	1000.0	1000.000	H	194.0	-59.6	21.2	-13.0
...

9.07_BE_R_Ch20800_50RB_QPSK

Common Information

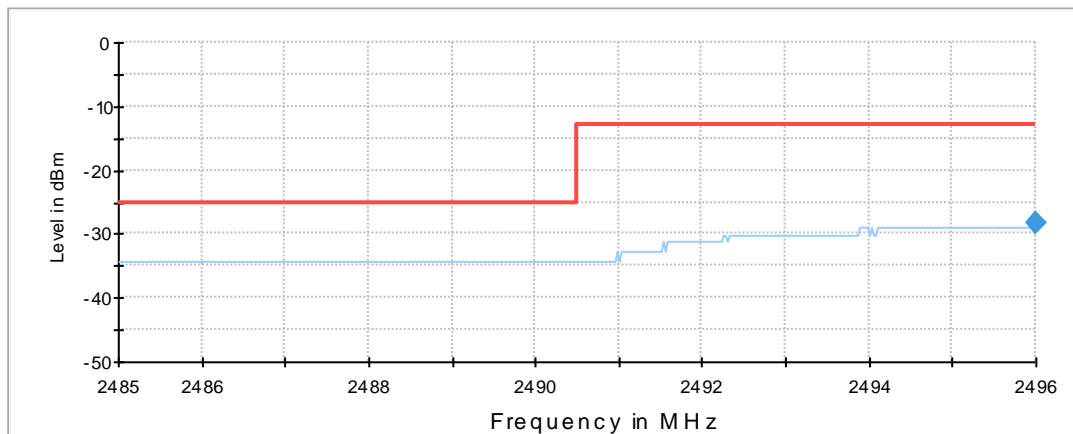
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20800/ BW:10M/ 50 RB/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - standing position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-28.2	1000.0	1000.000	H	61.0	-59.6	15.2	-13.0

9.08_BE_R_Ch20800_50RB_QAM

Common Information

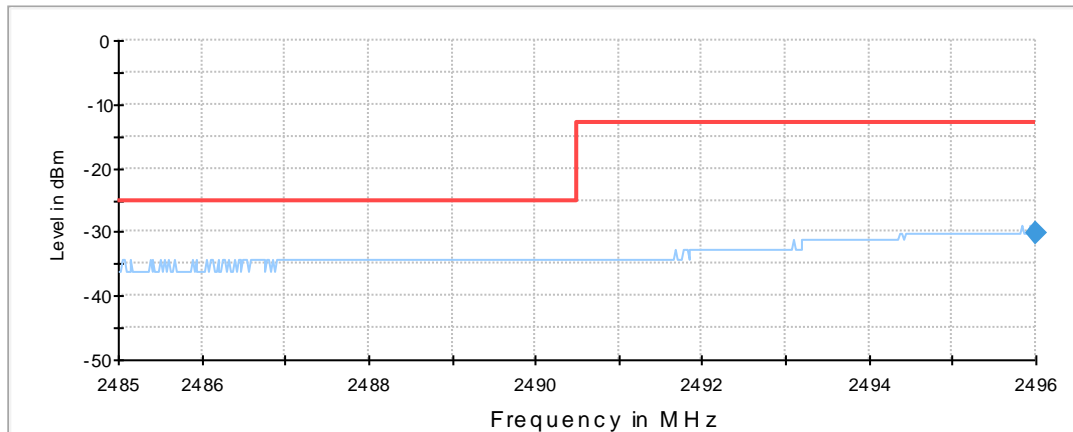
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20800/ BW:10M/ 50 RB/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - standing position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2496.000000	-30.1	1000.0	1000.000	H	190.0	-59.6	17.1	-13.0

9.09_BE_R_Ch20825_1RB_low_QPSK

Common Information

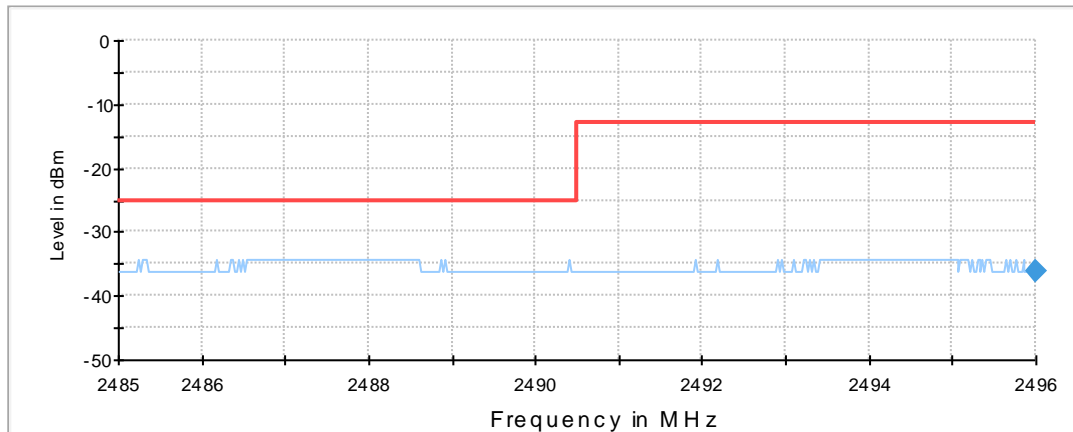
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20825/ BW: 15M/ RB: 1/ Position: low/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-36.1	1000.0	1000.000	H	-18.0	-59.6	23.1	-13.0

9.10_BE_R_Ch20825_75RB_QPSK

Common Information

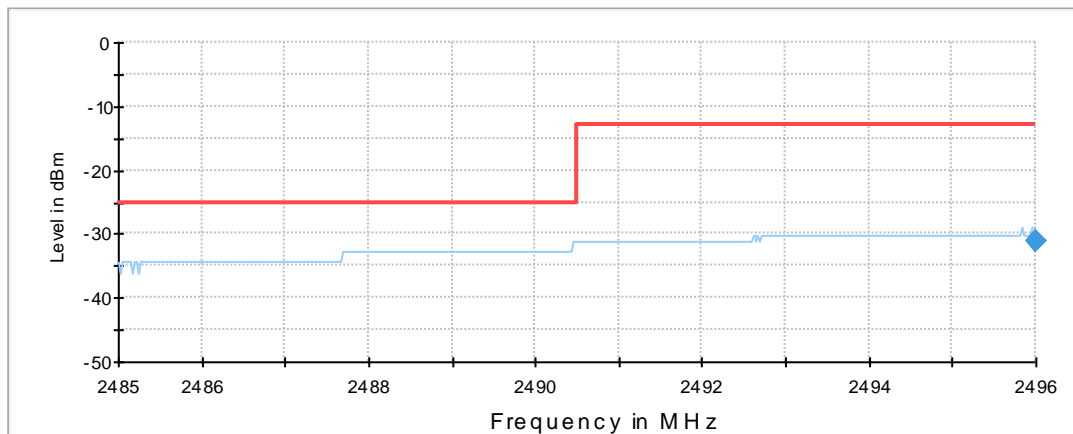
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20825/ BW: 15M/ RB:7 5/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-31.3	1000.0	1000.000	V	140.0	-59.6	18.3	-13.0

9.11_BE_R_Ch20825_75RB_QAM

Common Information

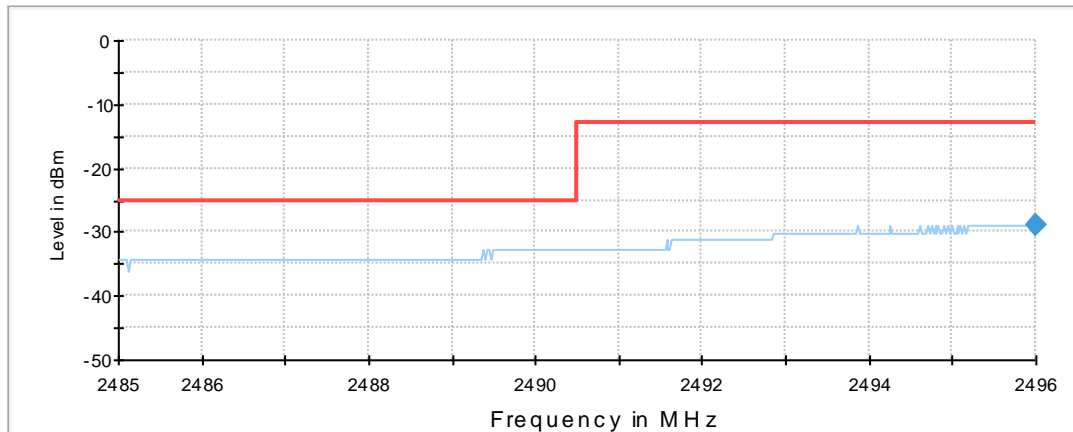
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20825/ BW: 15M/ RB: 75/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-29.1	1000.0	1000.000	V	158.0	-59.6	16.1	-13.0

9.12_BE_R_Ch20825_1RB_low_QAM

Common Information

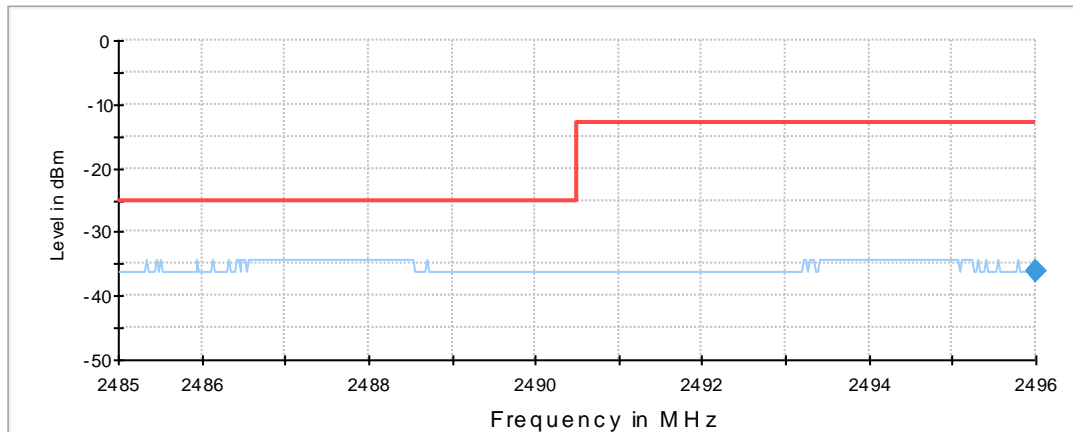
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20825/ BW: 15M/ RB: 1/ Position: low/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-36.1	1000.0	1000.000	H	-18.0	-59.6	23.1	-13.0

9.13_BE_R_Ch20850_1RB_low_QPSK

Common Information

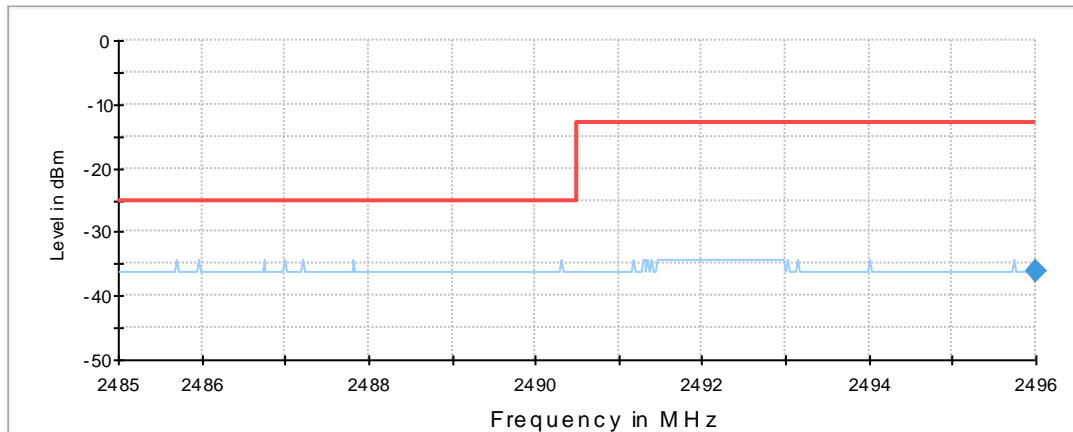
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20850/ BW: 20M/ RB: 1/ Position: low/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-36.1	1000.0	1000.000	H	-18.0	-59.6	23.1	-13.0

9.14_BE_R_Ch20850_100RB_QPSK

Common Information

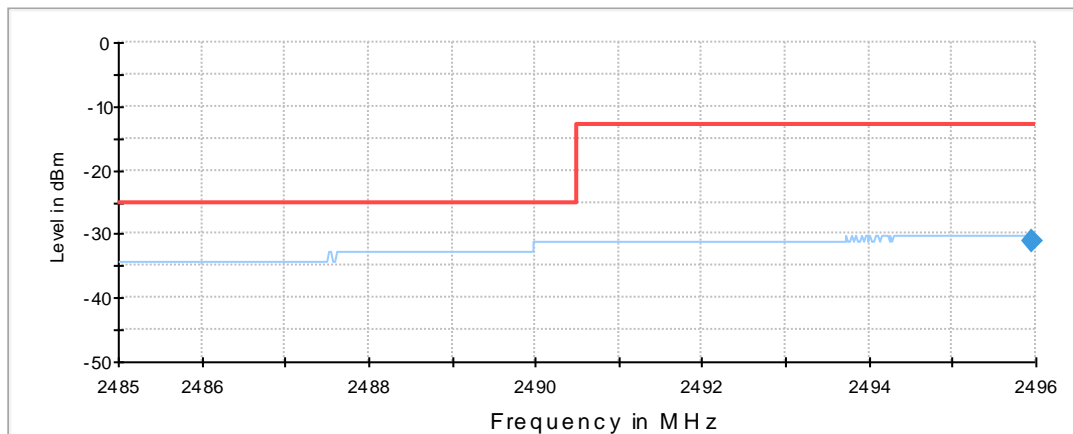
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20850/ BW: 20M/ RB: 100/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2495.955912	-31.3	1000.0	1000.000	V	164.0	-59.6	18.3	-13.0

9.15_BE_R_Ch20850_1RB_low_QAM

Common Information

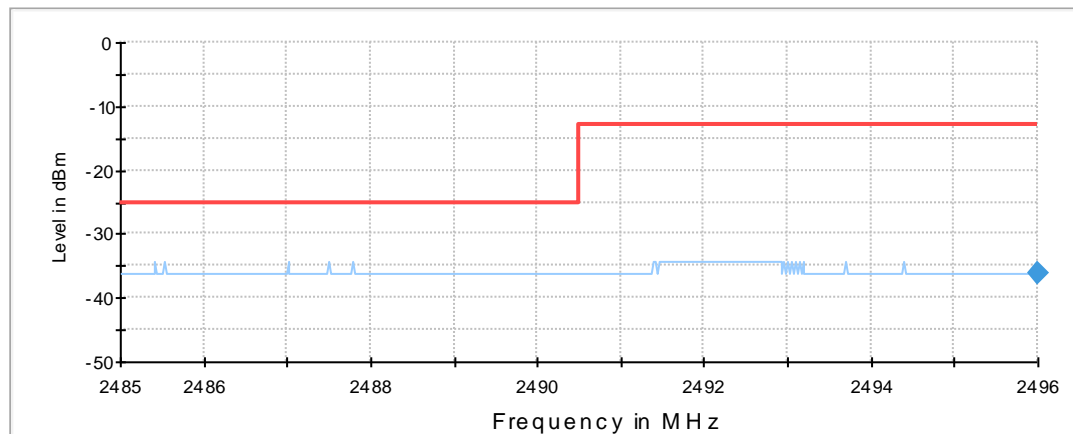
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20850/ BW: 20M/ RB: 1/ Position: low/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-36.1	1000.0	1000.000	H	-17.0	-59.6	23.1	-13.0

9.16_BE_R_Ch20850_100RB_QAM

Common Information

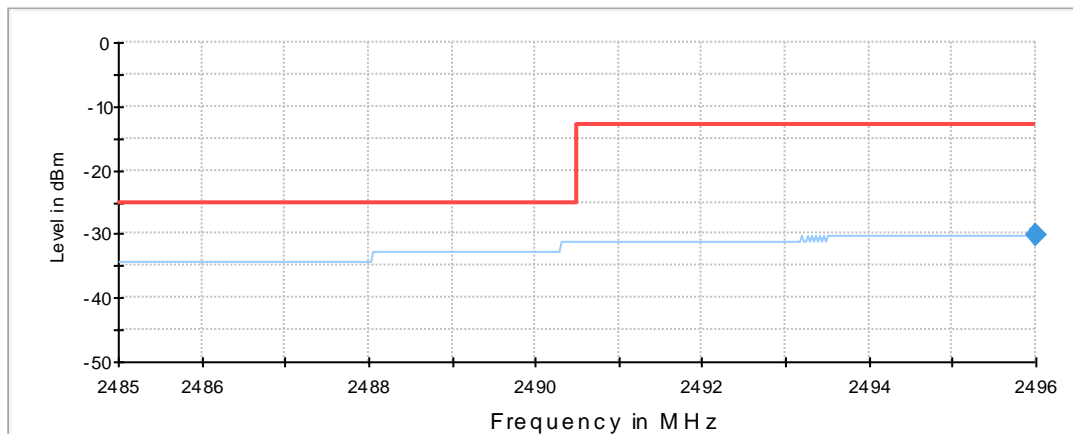
Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 20850/ BW: 20M/ RB: 100/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_Low_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin - RMS (dB)	Limit - RMS (dBm)
2496.000000	-30.1	1000.0	1000.000	V	241.0	-59.6	17.1	-13.0

1.3.2. Band - edge high

9.17_BE_R_Ch21425_1RB_high_QPSK

Common Information

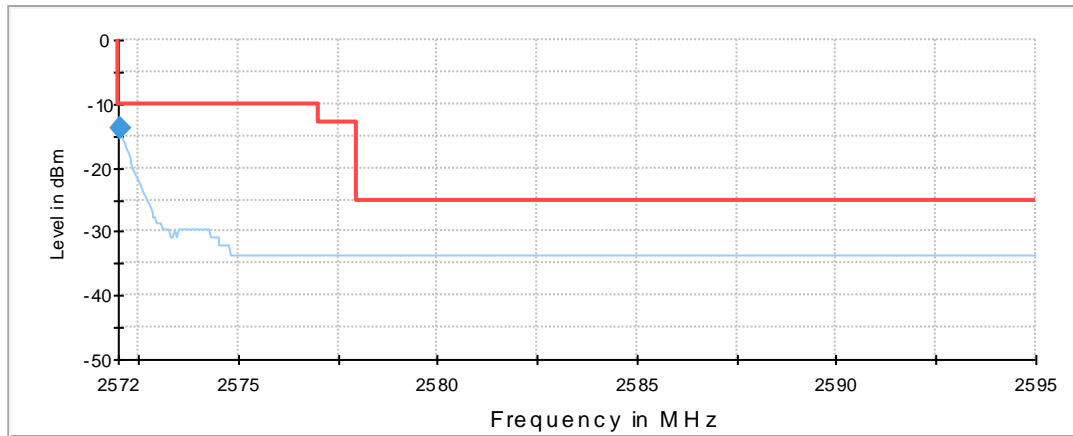
Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27.53(m)(4) Mobile stations limits
Operating Mode:	UE allocated channel 21425/ BW: 5M/ RB: 1/ Position: high/QPSK
Environmental Conditions:	Humidity: 47%RH; Temperature: 23,2°C
Test SW Version:	EMC32 V8.53.0
Operator:	Hla
Remarks:	EUT - laying position (Worst-Case)

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.046092	-13.7	1000.0	1000.000	V	135.0	-59.2	3.7	-10.0

9.18_BE_R_Ch21425_25RB_QPSK

Common Information

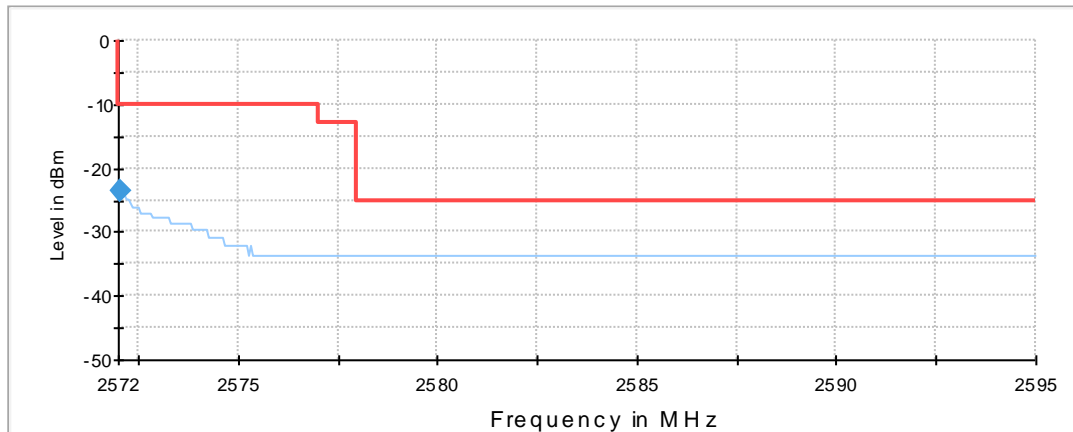
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21425/ BW: 5M/ RB: 25/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.046092	-23.6	1000.0	1000.000	V	134.0	-59.2	13.6	-10.0

9.19_BE_R_Ch21425_1RB_high_QAM

Common Information

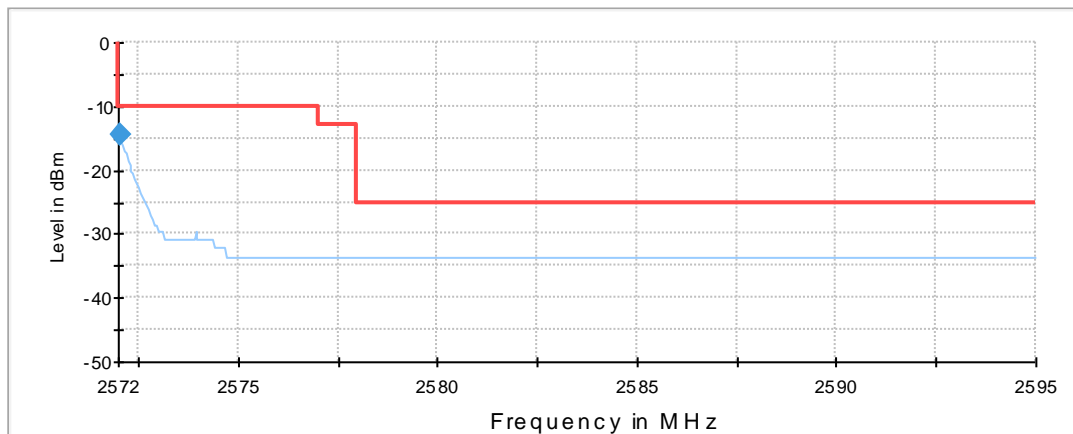
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21425/ BW: 5M/ RB: 25/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.046092	-14.5	1000.0	1000.000	V	134.0	-59.2	4.5	-10.0

9.20_BE_R_Ch21425_25RB_QAM

Common Information

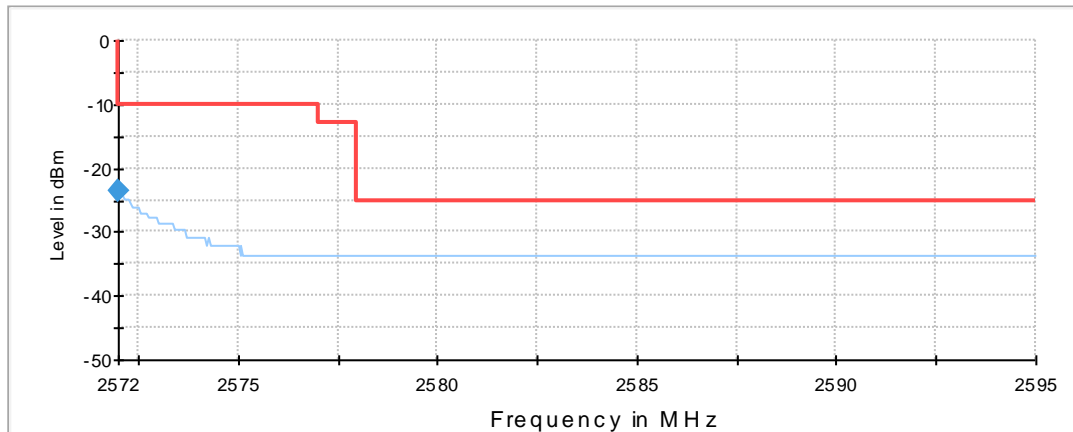
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21425/ BW: 5M/ RB: 25/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-23.6	1000.0	1000.000	V	136.0	-59.2	13.6	-10.0

9.21_BE_R_Ch21400_1RB_high_QPSK

Common Information

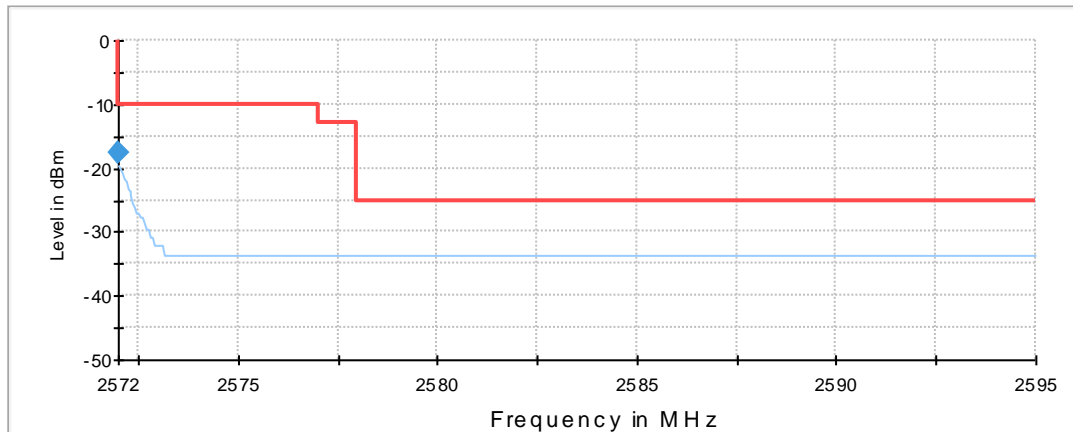
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21400/ BW:10M/ 1 RB:high/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-17.6	1000.0	1000.000	H	193.0	-59.2	17.6	-10.0

9.22_BE_R_Ch21400_50RB_QPSK

Common Information

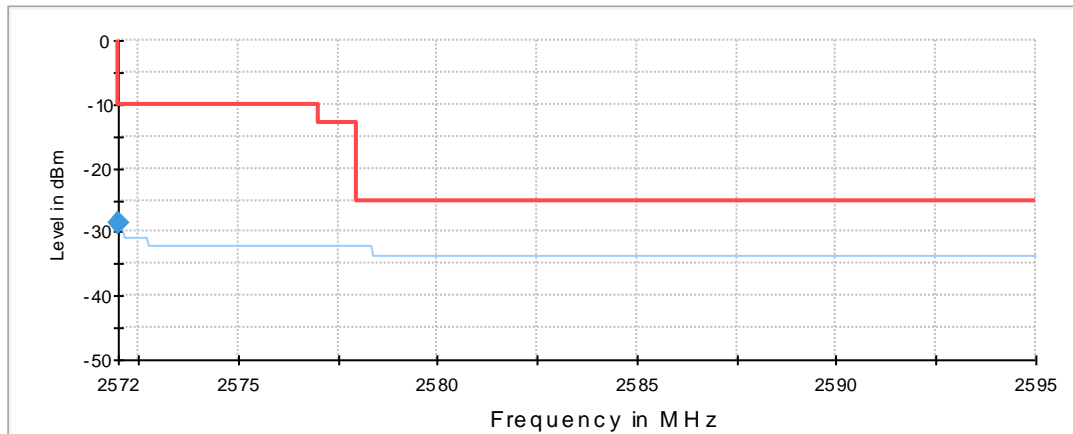
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21400/ BW:10M/ 50 RB/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-28.6	1000.0	1000.000	H	191.0	-59.2	18.6	-10.0

9.23_BE_R_Ch21400_1RB_high_QAM

Common Information

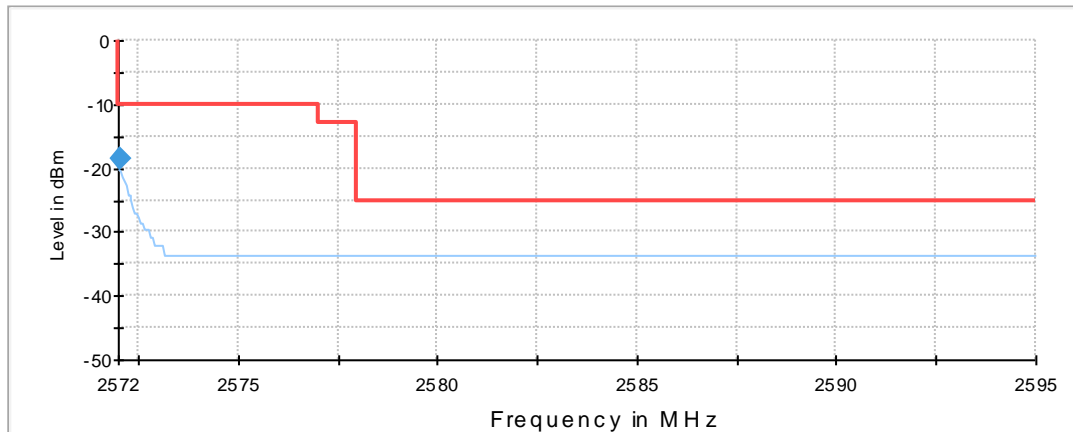
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21400/ BW:10M/ 1 RB:high/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.046092	-18.5	1000.0	1000.000	H	191.0	-59.2	8.5	-10.0

9.24_BE_R_Ch21400_50RB_QAM

Common Information

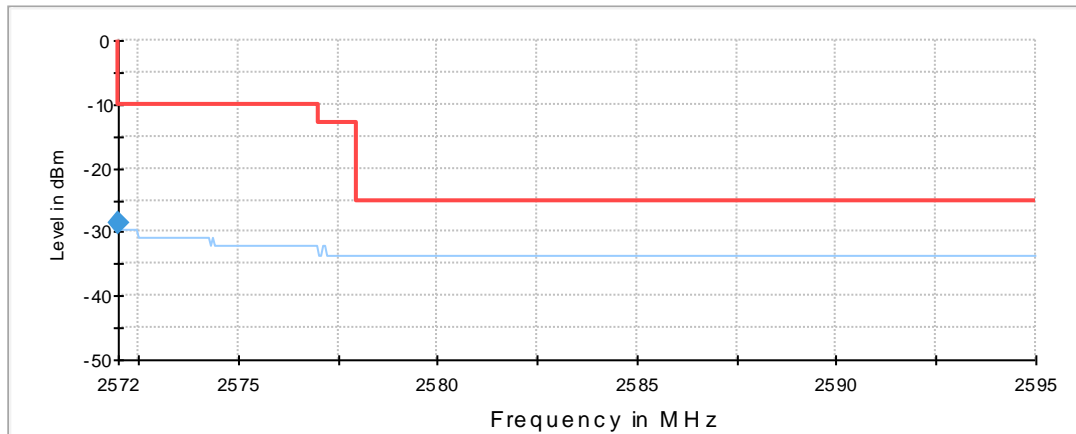
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21400/ BW:10M/ 50 RB/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-28.6	1000.0	1000.000	H	191.0	-59.2	61.6	33.0

9.25_BE_R_Ch21375_1RB_high_QPSK

Common Information

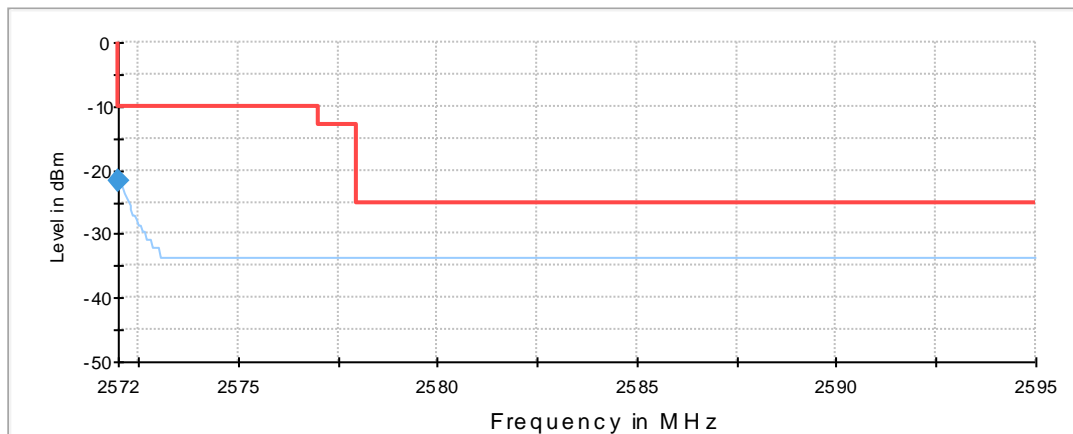
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21375/ BW:15M/ 1 RB: high/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-21.7	1000.0	1000.000	V	136.0	-59.2	11.7	-10

9.26_BE_R_Ch21375_75RB_QPSK

Common Information

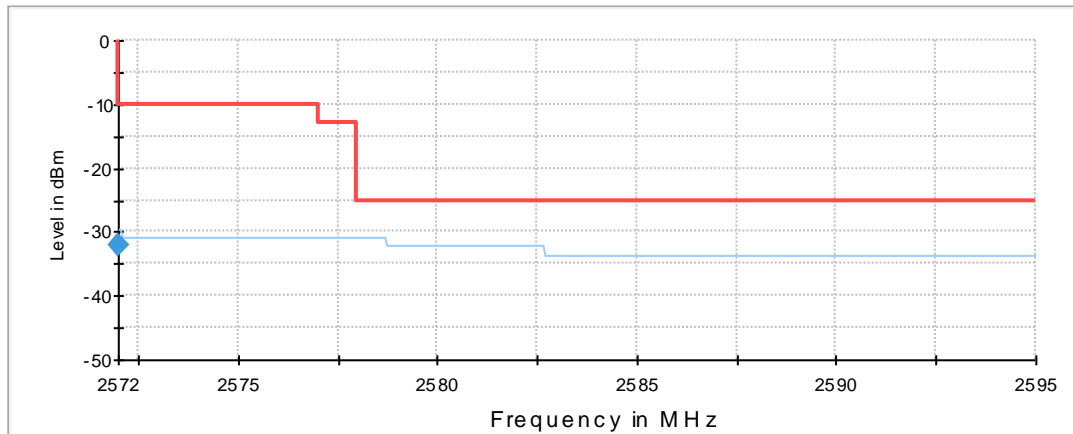
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21375/ BW:15M/ RB: 75/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-32.2	1000.0	1000.000	V	137.0	-59.2	22.2	-10

9.27_BE_R_Ch21375_1RB_high_QPSK

Common Information

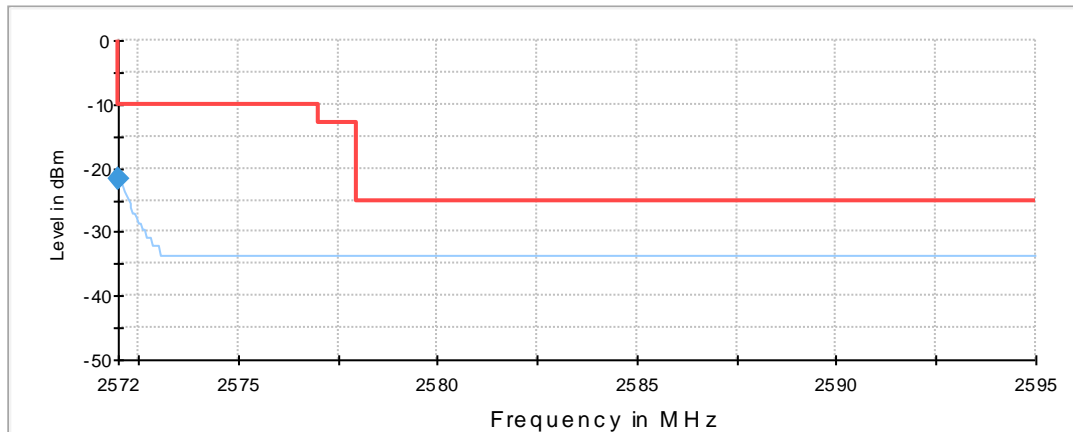
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21375/ BW:15M/ 1 RB: high/QPSK
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-21.7	1000.0	1000.000	V	136.0	-59.2	11.7	-10

9.28_BE_R_Ch21375_75RB_QAM

Common Information

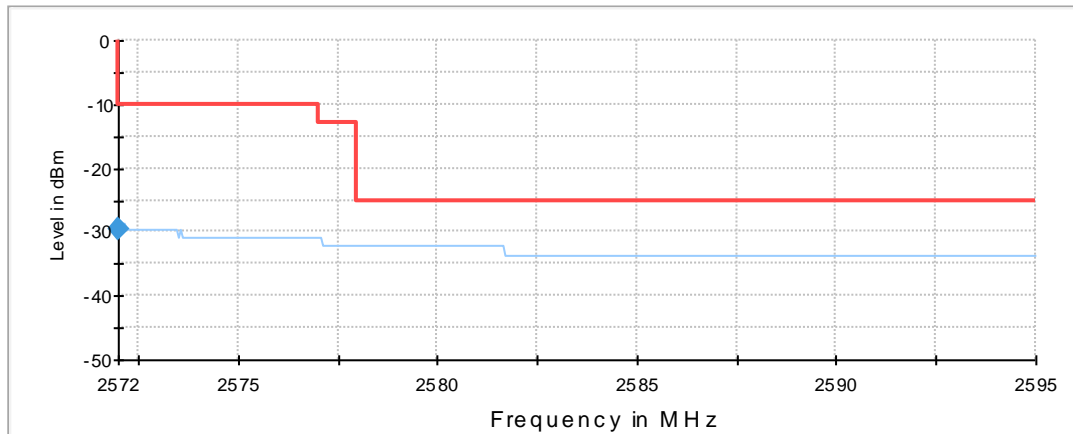
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21375/ BW:15M/ RB: 75/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-29.7	1000.0	1000.000	V	129.0	-59.2	19.7	-10.0

9.31_BE_R_Ch21350_1RB_high_QAM

Common Information

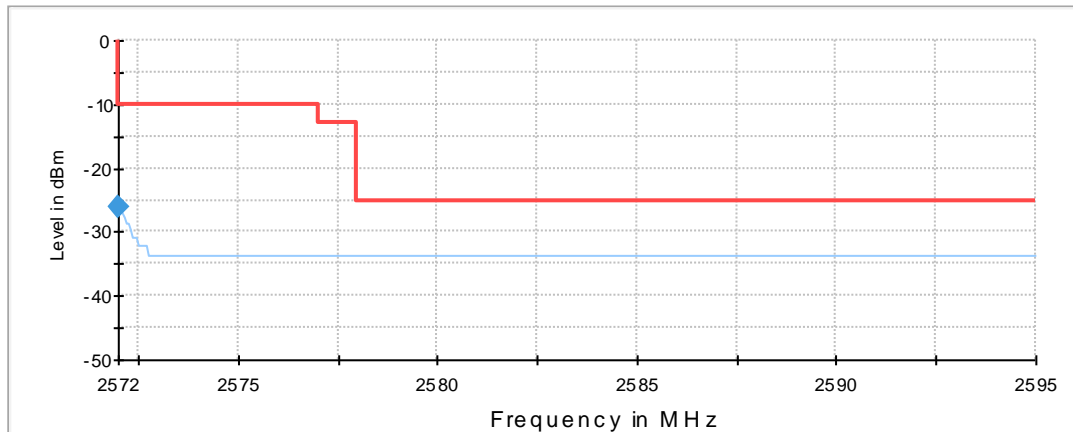
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21350/ BW:20M/ 1 RB:high/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.000000	-26.1	1000.0	1000.000	V	135.0	-59.2	26.1	-10.0

9.32_BE_R_Ch21350_100RB_QAM

Common Information

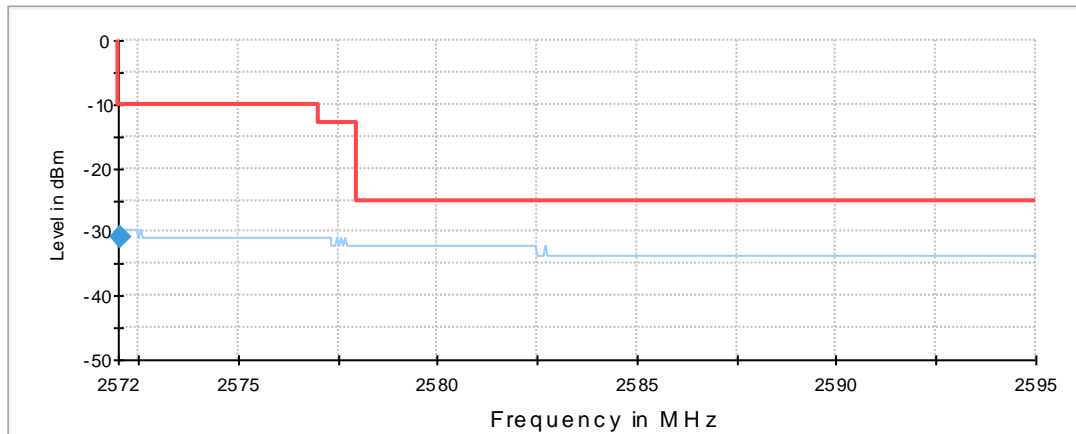
Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 7
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 27.53(m)(4) Mobile stations limits
 Operating Mode: UE allocated channel 21350/ BW:20M/ 100 RB/QAM
 Environmental Conditions: Humidity: 47%rH; Temperature: 23,2°C
 Test SW Version: EMC32 V8.53.0
 Operator: Hla
 Remarks: EUT - laying position (Worst-Case)

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 Model: ATM-01 T1-ROW-4G
 Type: GSM/UMTS/LTE Mobile Device

 EUT: PKD0354BD1b
 HW version: 202.005.005
 SW version: 001.014.004
 SVN: 02
 Config: C03
 Serial number: IMEI: 35190606-000068-7
 Connected Interfaces: power cable, antenna cable, microphone, loudspeaker
 Power Supply: 14VDC external
 Comments: -

030420_BandEdge_High_FCC_Part27_LTE7_All-Channels_nokipp



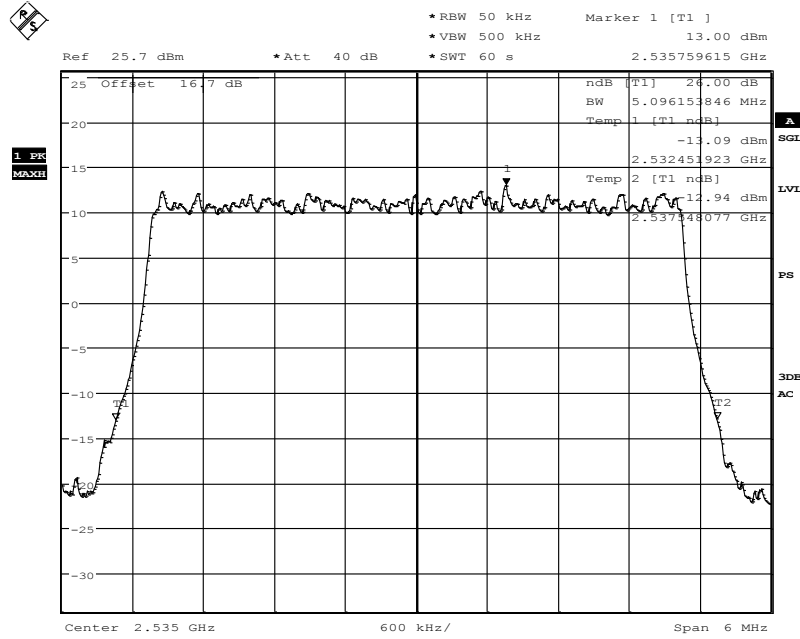
Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2572.046092	-30.8	1000.0	1000.000	V	145.0	-59.2	20.8	-10.0

1.4. 26dBc Emission bandwidth

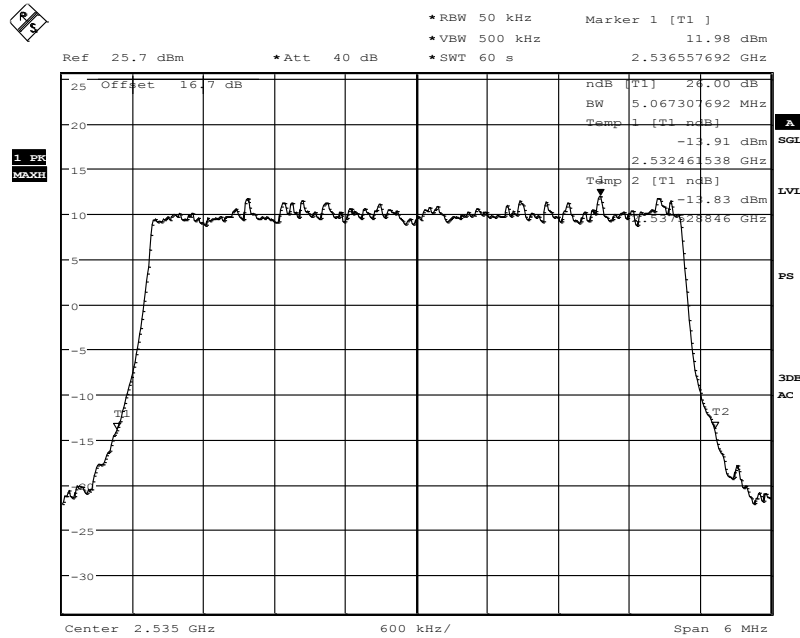
1.4.1. LTE Band 7

1.4.1.1. BW = 5MHz



Date: 8.JUL.2014 10:36:24

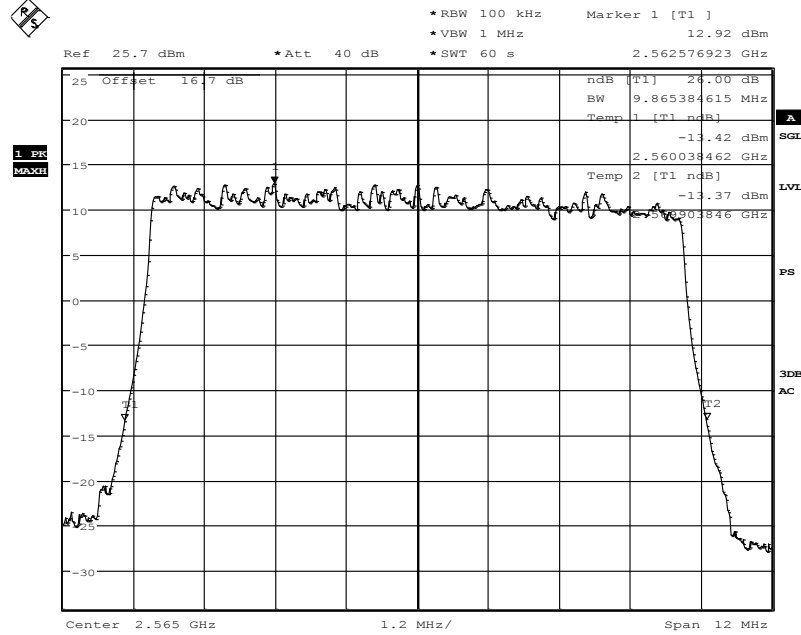
Diagram 34.702 Channel 21100 (2535.0MHz) Value = 5.0961MHz
QPSK-Modulation



Date: 8.JUL.2014 10:34:15

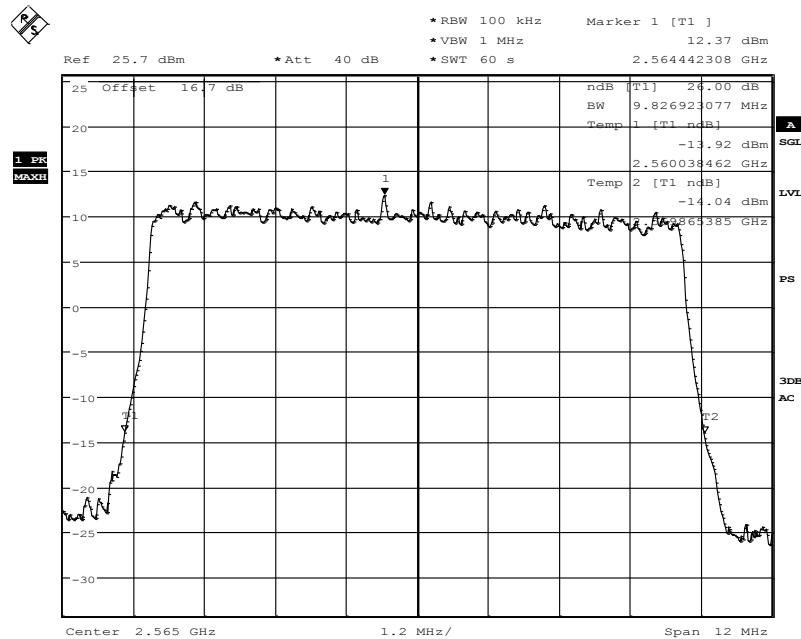
Diagram 34.714 Channel 21100 (2535.0MHz) Value =5.0673MHz
16-QAM-Modulation

1.4.1.2. BW = 10MHz



Date: 8.JUL.2014 10:54:38

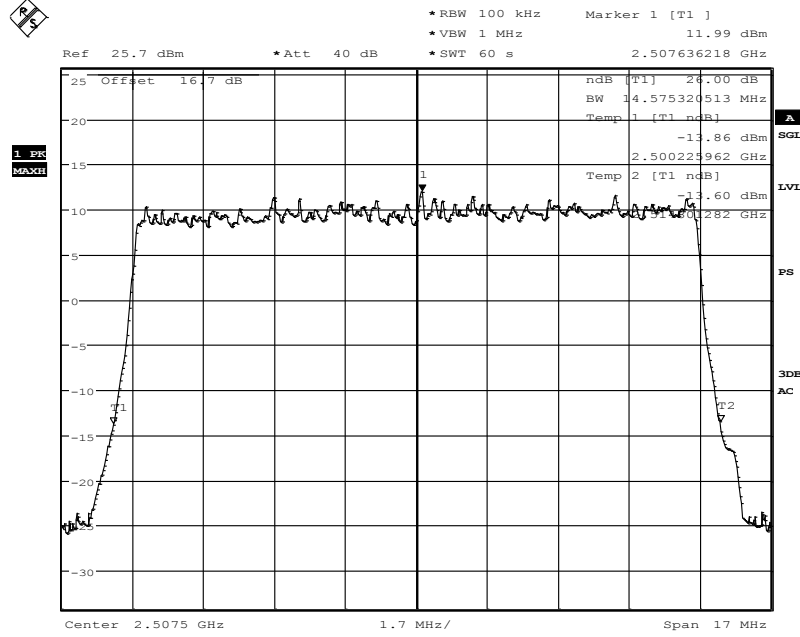
Diagram 34.706 Channel 21400 (2565.0MHz) Value = 9.8653MHz
QPSK-Modulation



Date: 8.JUL.2014 10:56:03

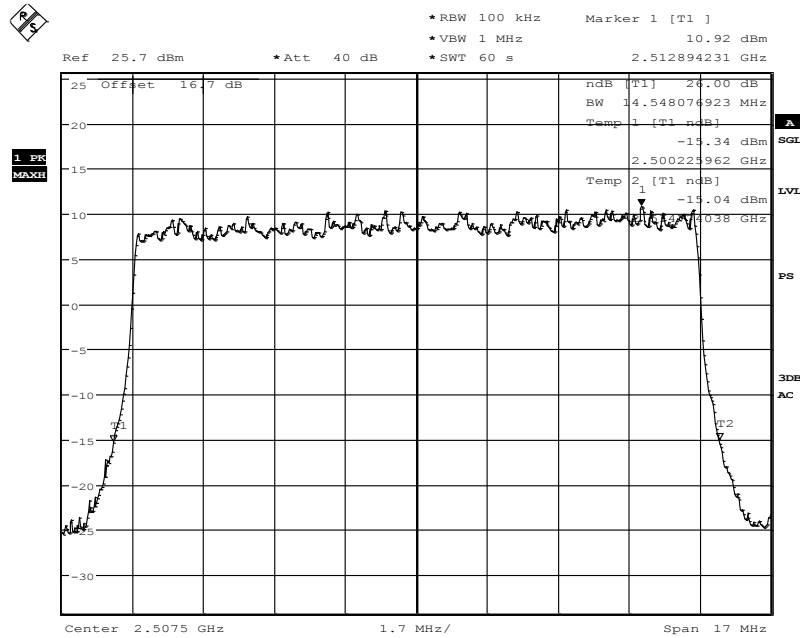
Diagram 34.718 Channel 21400 (2565.0MHz) Value = 9.8269MHz
16-QAM-Modulation

1.4.1.3. BW = 15MHz



Date: 8.JUL.2014 10:58:47

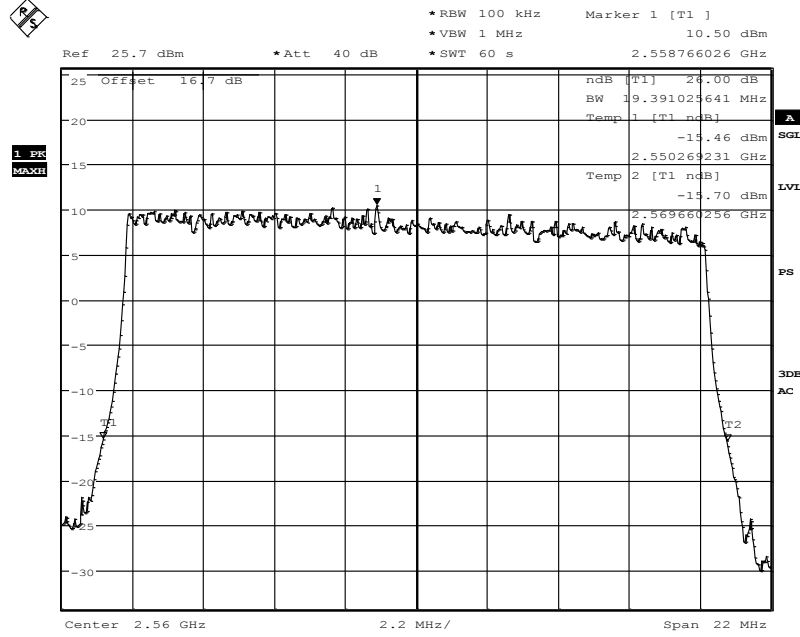
Diagram 34.707 Channel 20825 (2507.5MHz) Value = 14.5753MHz
QPSK-Modulation



Date: 8.JUL.2014 11:00:53

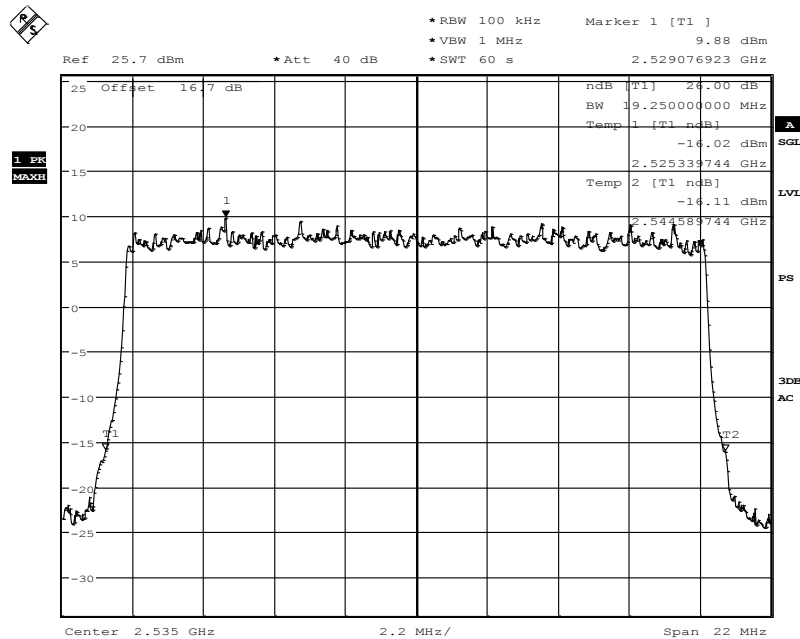
Diagram 34.719 Channel 20825 (2507.5MHz) Value = 14.5480MHz
16-QAM-Modulation

1.4.1.4. BW = 20MHz



Date: 8.JUL.2014 11:21:23

Diagram 34.712 Channel 21350 (2560.0MHz) Value =19.3910MHz
QPSK-Modulation



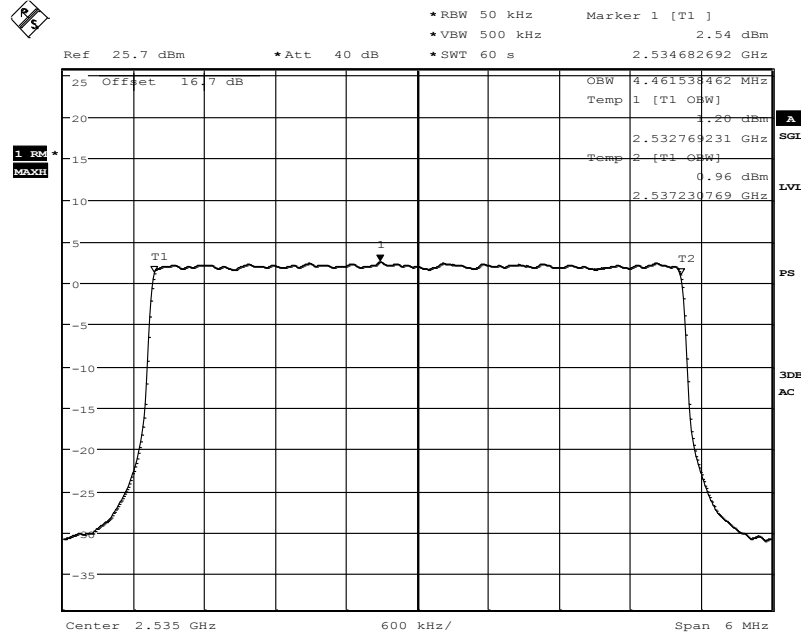
Date: 8.JUL.2014 11:17:21

Diagram 34.723 Channel 21100 (2535.0MHz) Value =19.2500MHz
16-QAM-Modulation

1.5. 99% occupied bandwidth

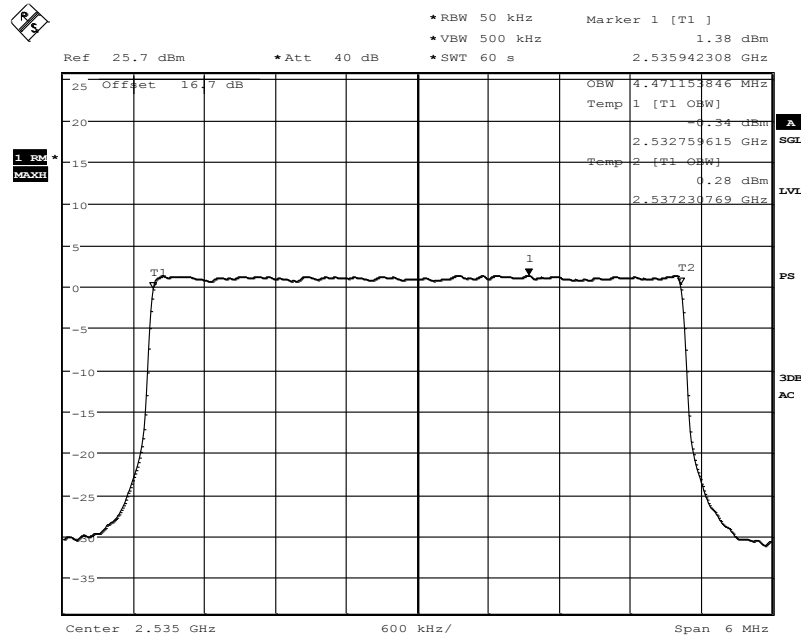
1.5.1. LTE Band 7

1.5.1.1. BW = 5MHz



Date: 8.JUL.2014 11:53:48

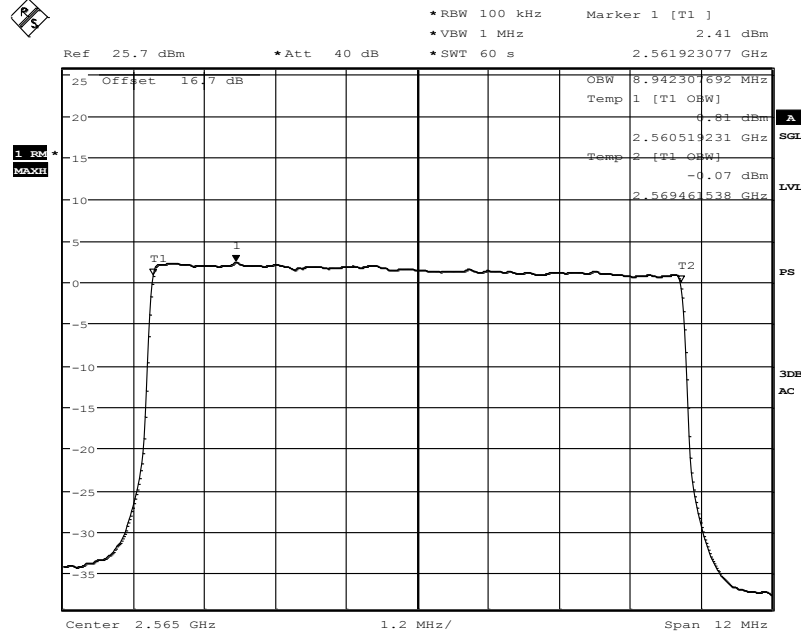
Diagram 35.702 Channel 21100 (2535.0MHz) Value = 4.4615MHz
QPSK-Modulation



Date: 8.JUL.2014 11:55:15

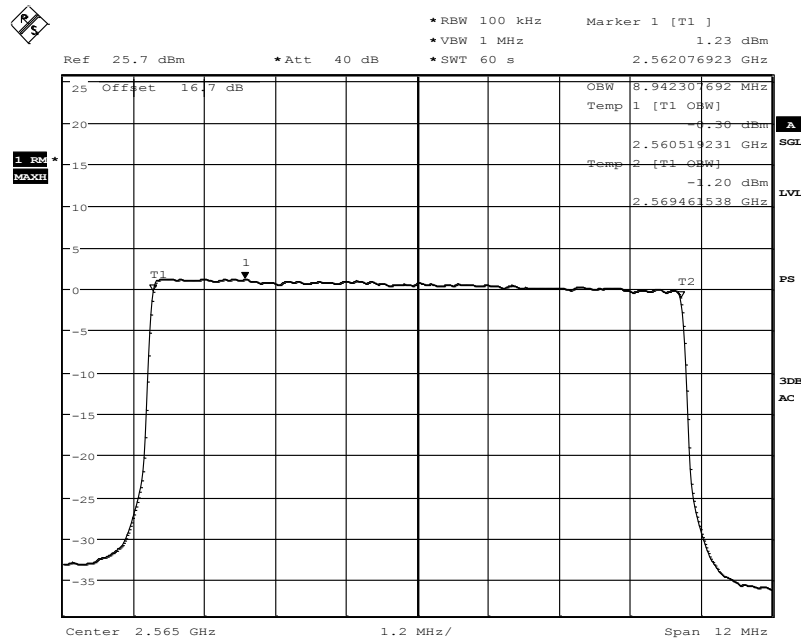
Diagram 35.714 Channel 21100 (2535.0MHz) Value =4.4711MHz
16-QAM-Modulation

1.5.1.2. BW = 10MHz



Date: 8.JUL.2014 11:57:26

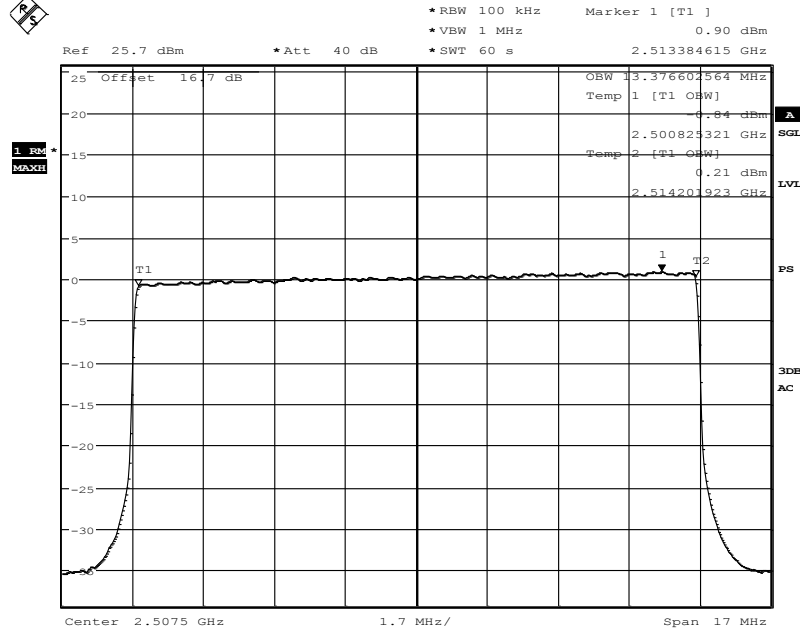
Diagram 35.706 Channel 21400 (2565.0MHz) Value = 8.9423MHz
QPSK-Modulation



Date: 8.JUL.2014 11:59:40

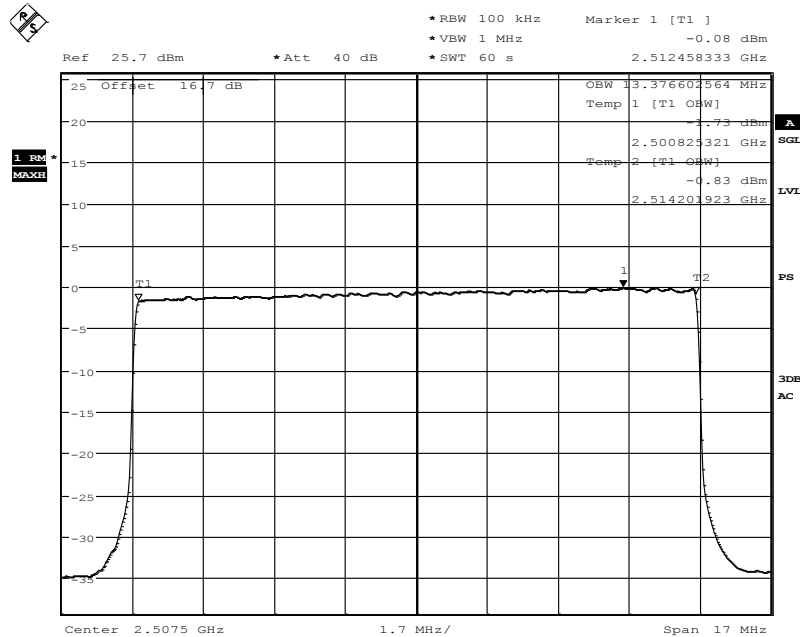
Diagram 35.718 Channel 21400 (2565.0MHz) Value = 8.9423MHz
16-QAM-Modulation

1.5.1.3. BW = 15MHz



Date: 8.JUL.2014 12:02:32

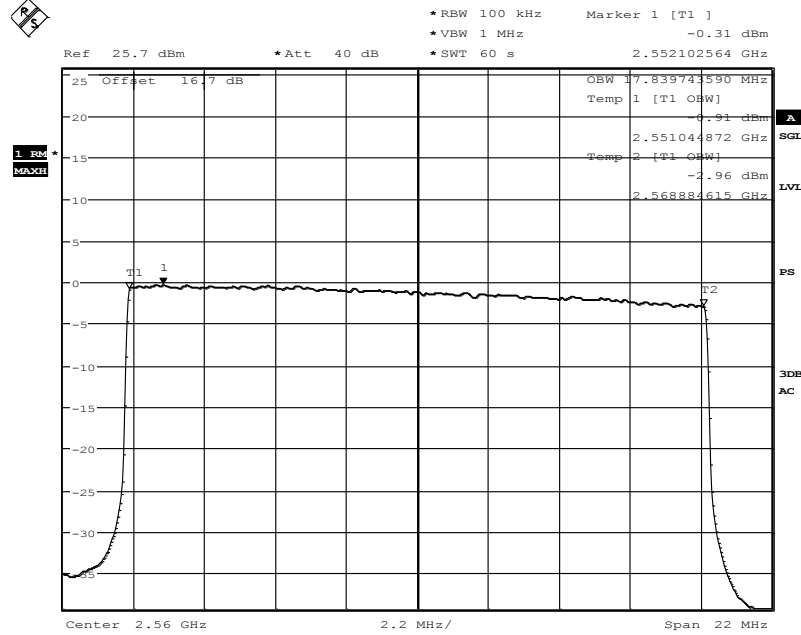
Diagram 35.707 Channel 20825 (2507.5MHz) Value = 13.3766MHz
QPSK-Modulation



Date: 8.JUL.2014 12:03:46

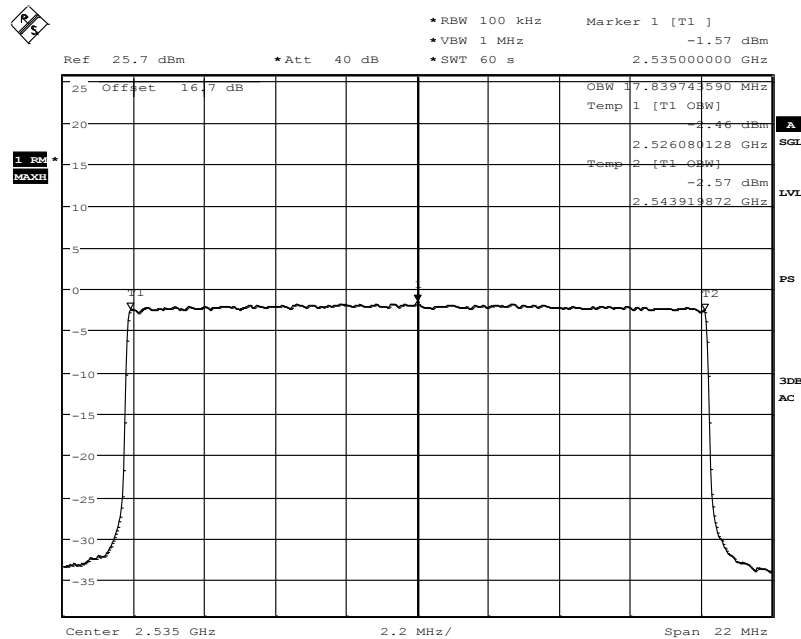
Diagram 35.719 Channel 20825 (2507.5MHz) Value = 13.3766MHz
16-QAM-Modulation

1.5.1.4. BW = 20MHz



Date: 8.JUL.2014 12:06:40

Diagram 35.712 Channel 21350 (2560.0MHz) Value =17.8397MHz
QPSK-Modulation



Date: 8.JUL.2014 12:05:17

Diagram 35.723 Channel 21100 (2535.0MHz) Value =17.8397MHz
16-QAM-Modulation

1.6. Spurious emissions conducted (LTE Band 7)

Diagram No.: 50.701a_RSE_C_Ch20775_BW5MHZ_1RB_QPSK

Common Information

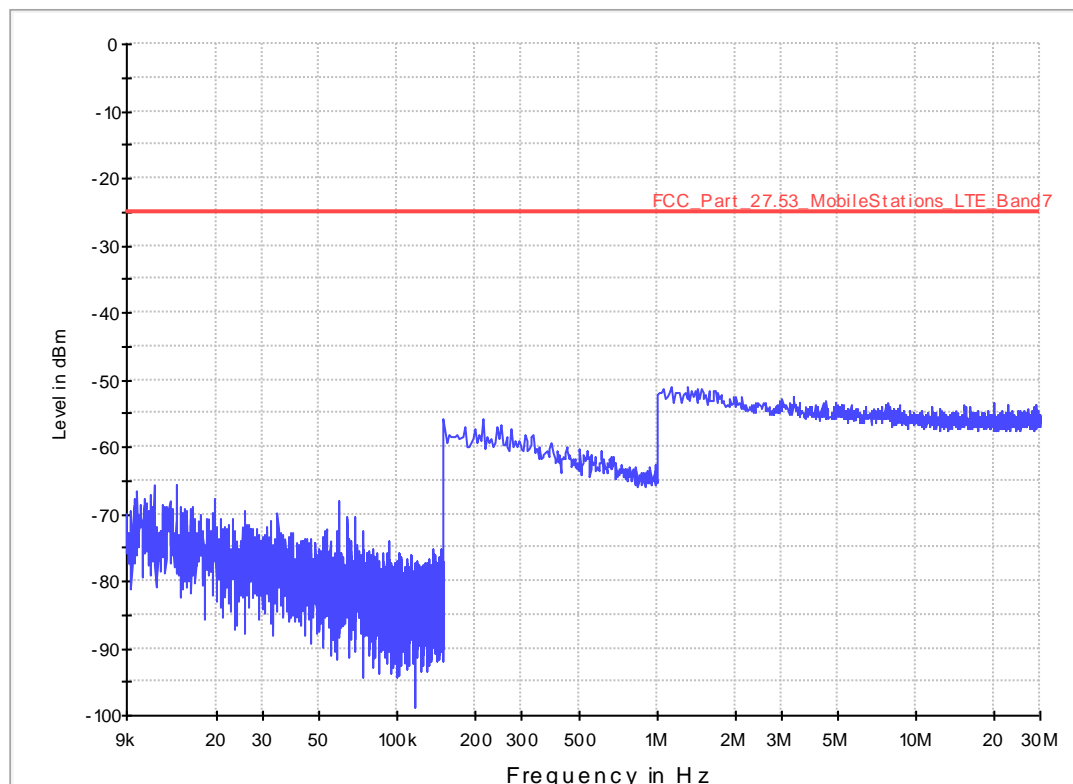
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 20775/ 1RB low/ BW= 5MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.701b_RSE_C_Ch20775_BW5MHZ_1RB_QAM

Common Information

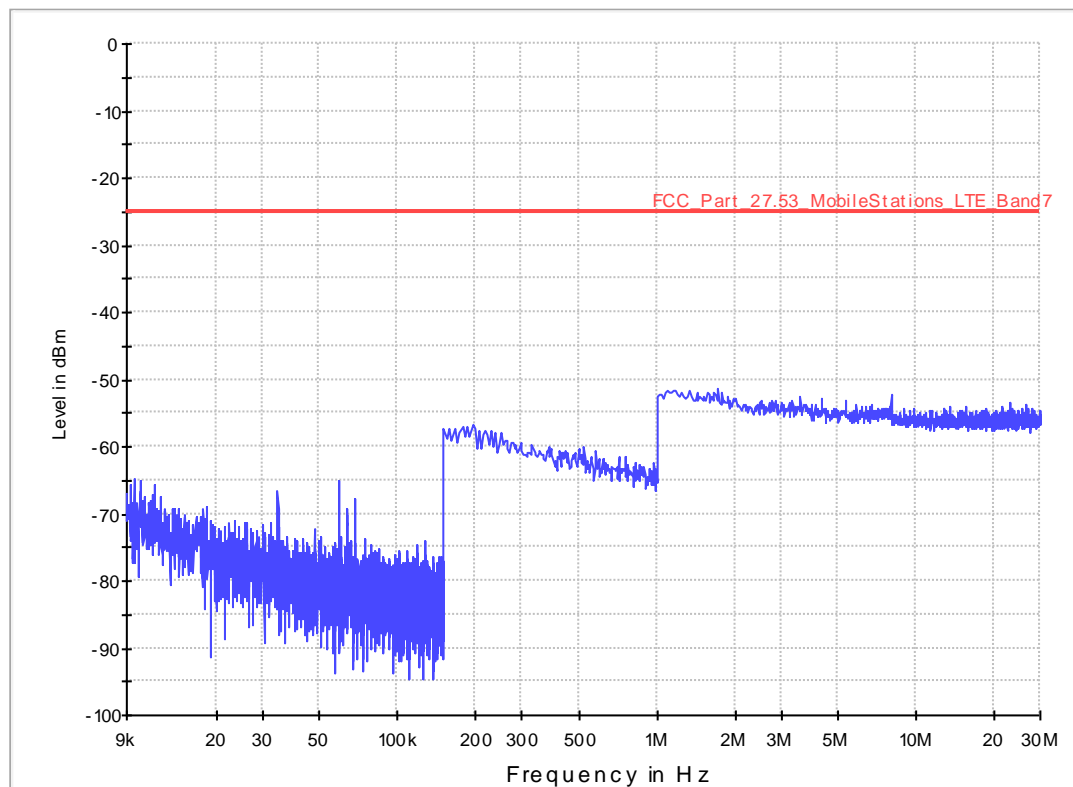
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 20775/ 1RB low/ BW= 5MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.702a_RSE_C_Ch20775_BW5MHz_1RB_QPSK

Common Information

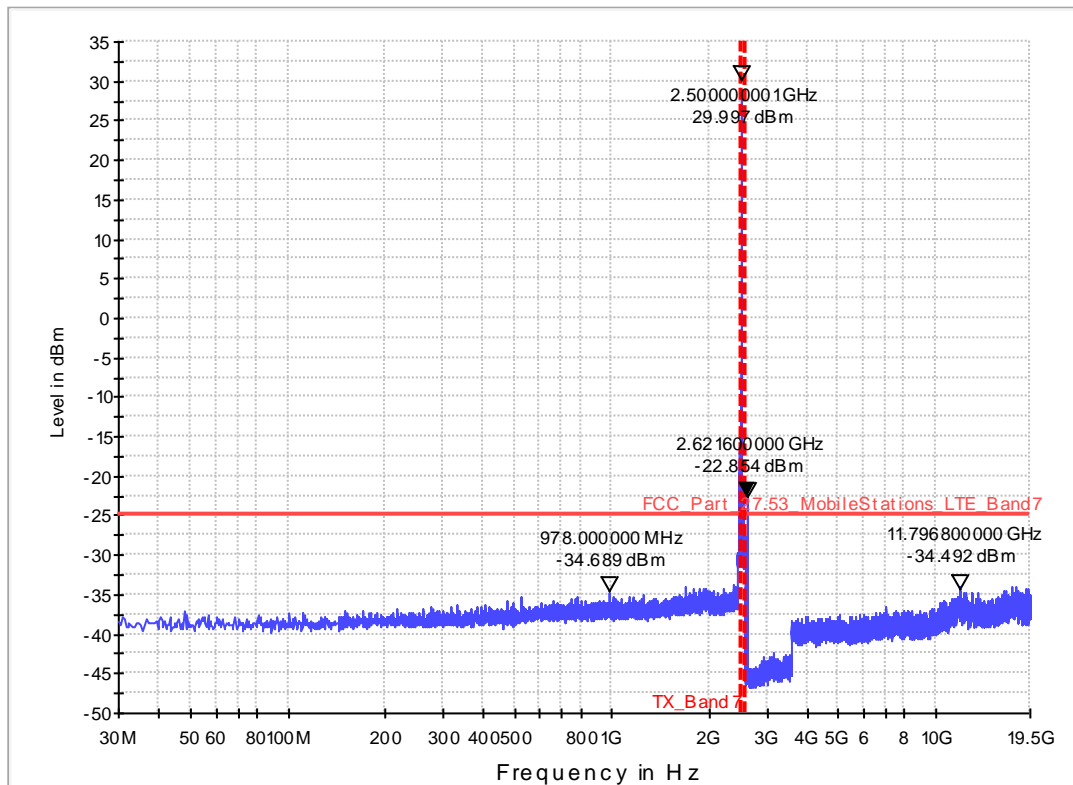
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 20775 / 1 RB low/ BW= 5MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

Diagram No.: 50.702b_RSE_C_Ch20775_BW5MHz_1RB_QAM

Common Information

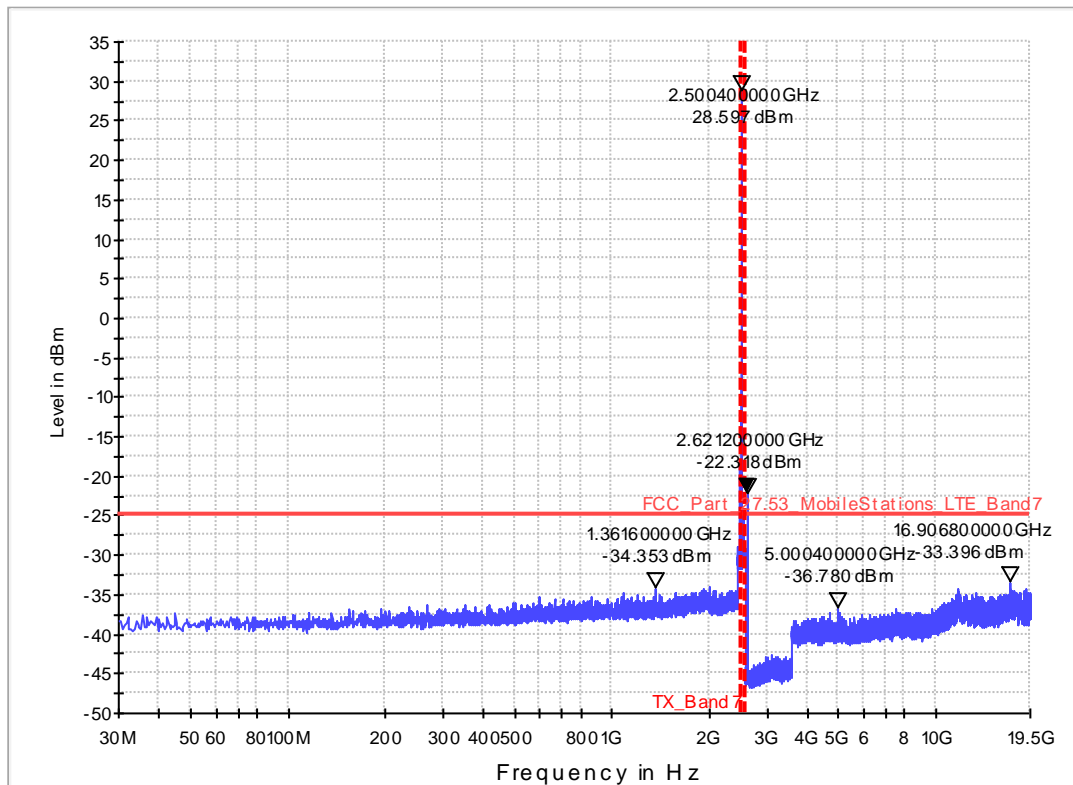
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	
Operating mode:	LTE Band7 TX: TX - Channel 20775 / 1 RB low/ BW= 5MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

Diagram No.: 50.703a_RSE_C_Ch21100_BW10MHZ_50RB_QPSK

Common Information

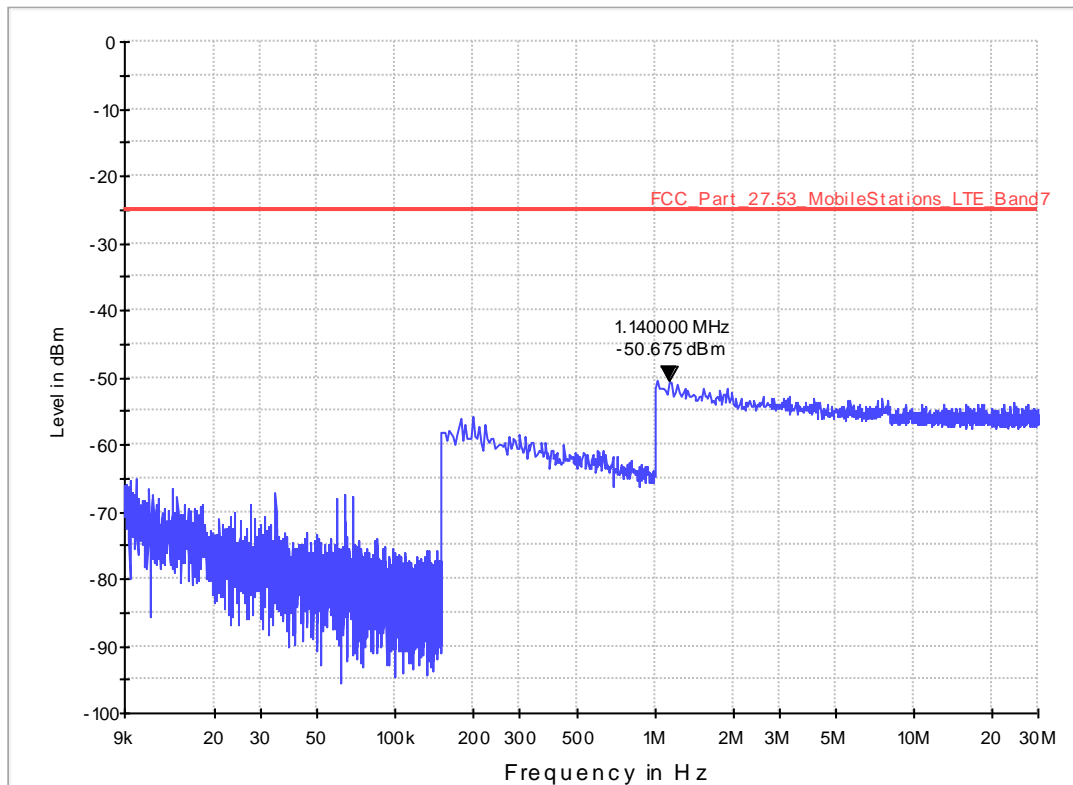
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21100/ 50RB/ BW= 10MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.703b_RSE_C_Ch21100_BW10MHZ_50RB_QAM

Common Information

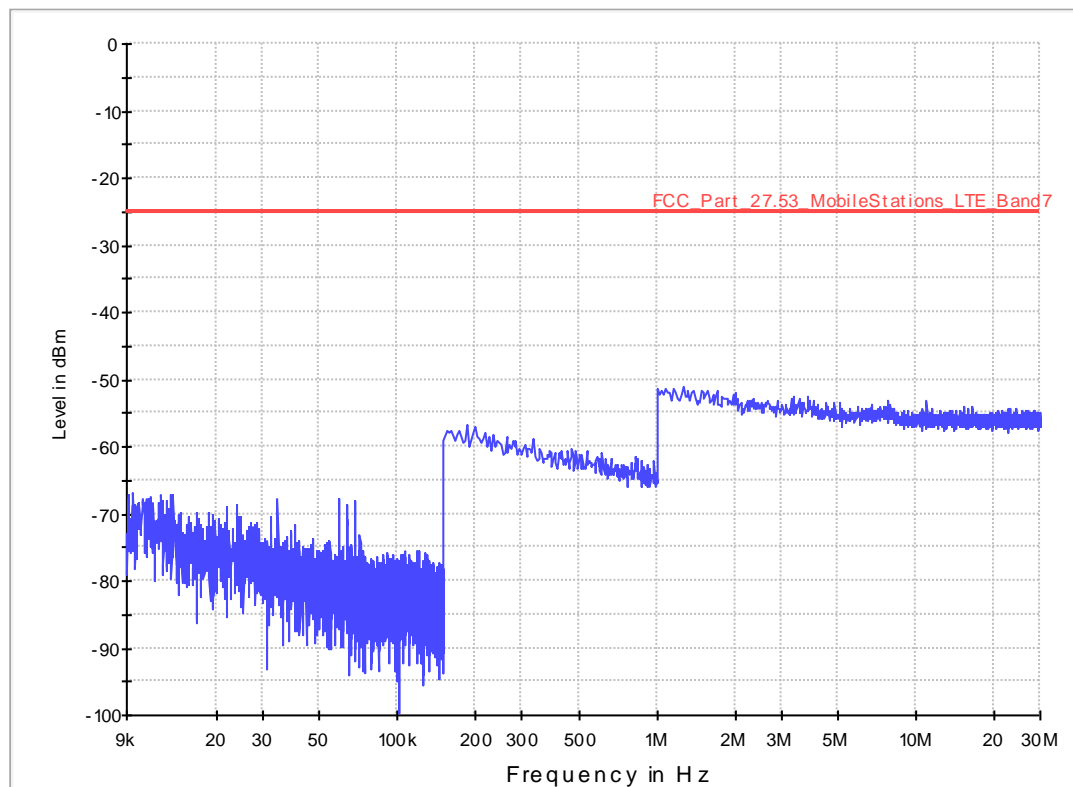
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21100/ 50RB/ BW= 10MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.704a_RSE_C_Ch21100_BW10MHz_50RB_QPSK

Common Information

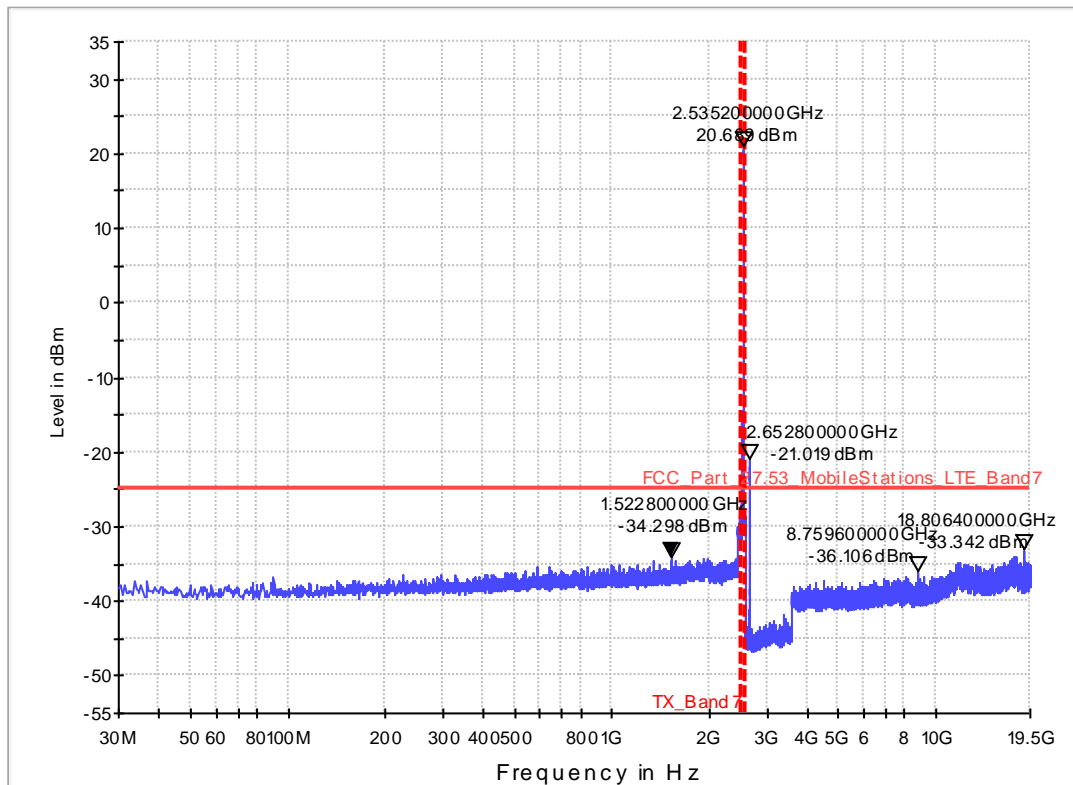
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21100/ 50 RB/ BW= 10MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

Diagram No.: 50.704b_RSE_C_Ch21100_BW10MHz_50RB_QAM

Common Information

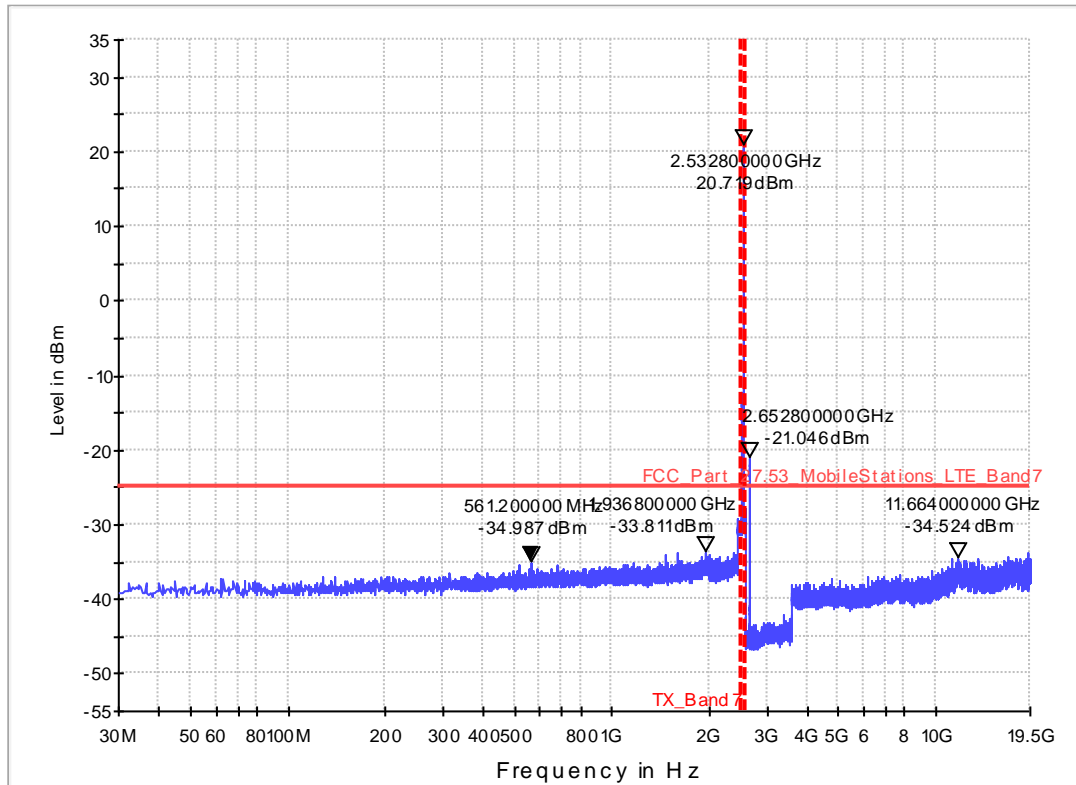
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21100/ 50RB/ BW= 10MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

Diagram No.: 50.705a_RSE_C_Ch21425_BW5MHZ_25RB_QPSK

Common Information

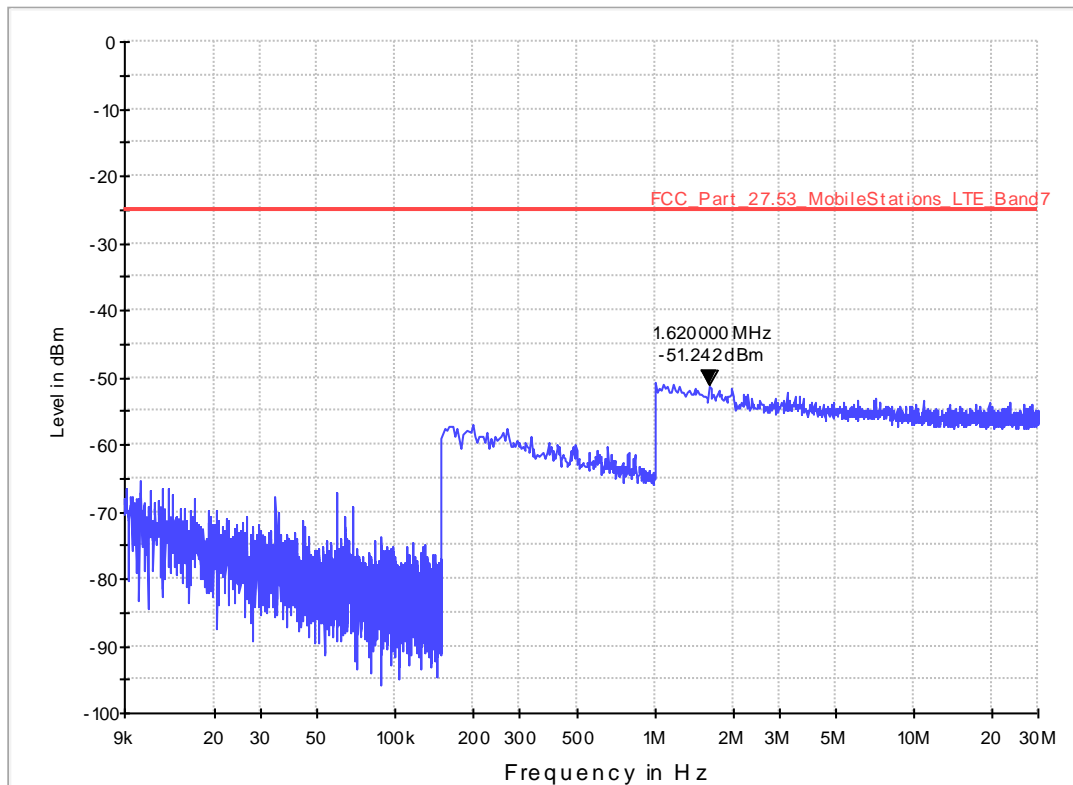
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21425/ 25RB/ BW= 5MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.705b_RSE_C_Ch21425_BW5MHZ_25RB_QAM

Common Information

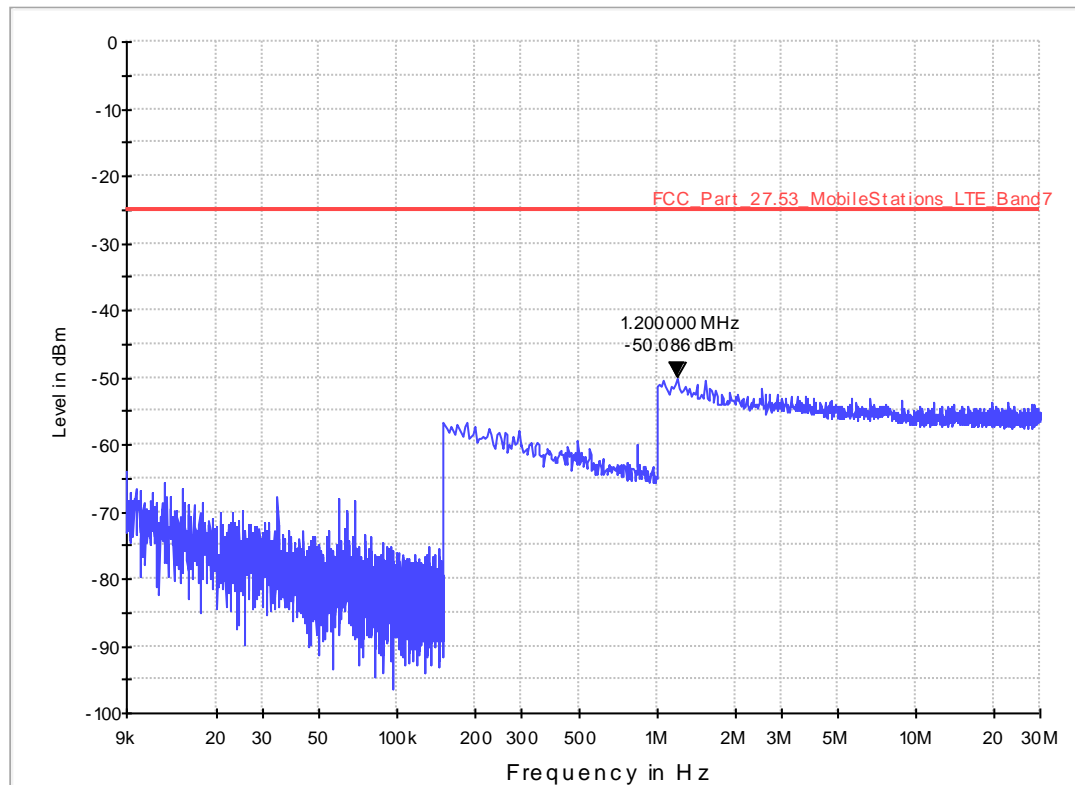
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21425/ 25RB/ BW= 5MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 50.706a_RSE_C_Ch21425_BW5MHz_25RB_QPSK

Common Information

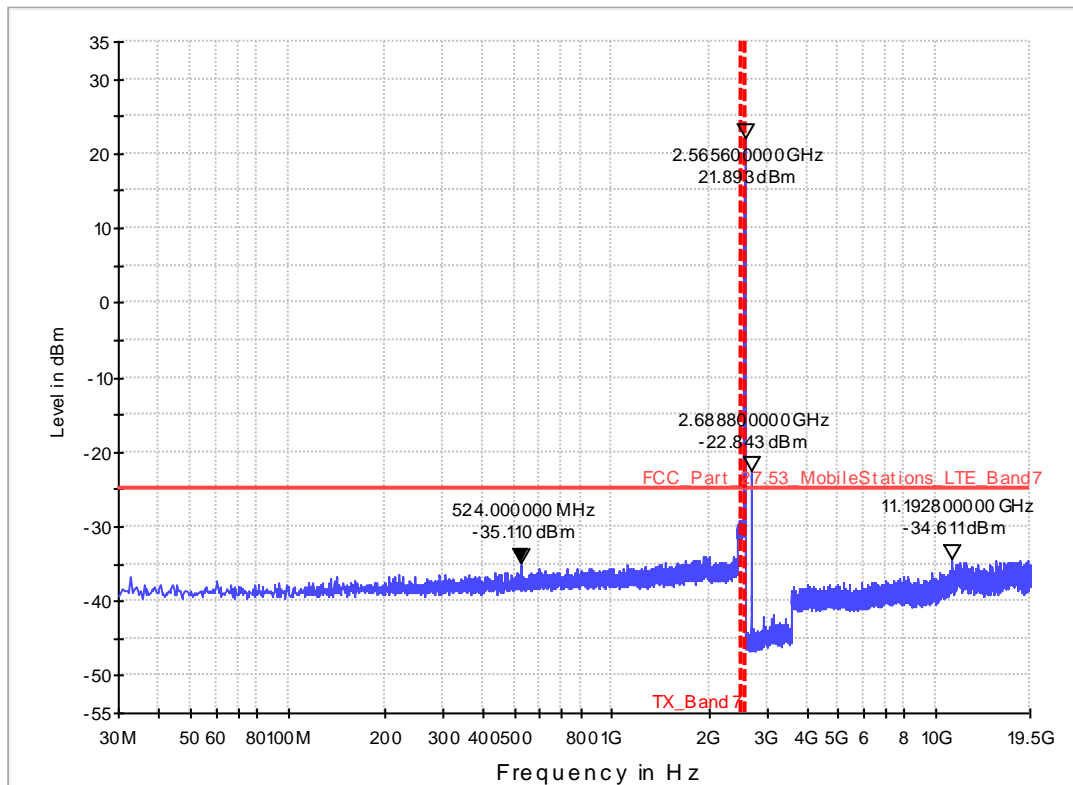
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21425/ 25RB/ BW= 5MHz / Modulation=QPSK
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

Diagram No.: 50.706b_RSE_C_Ch21425_BW5MHz_25RB_QAM

Common Information

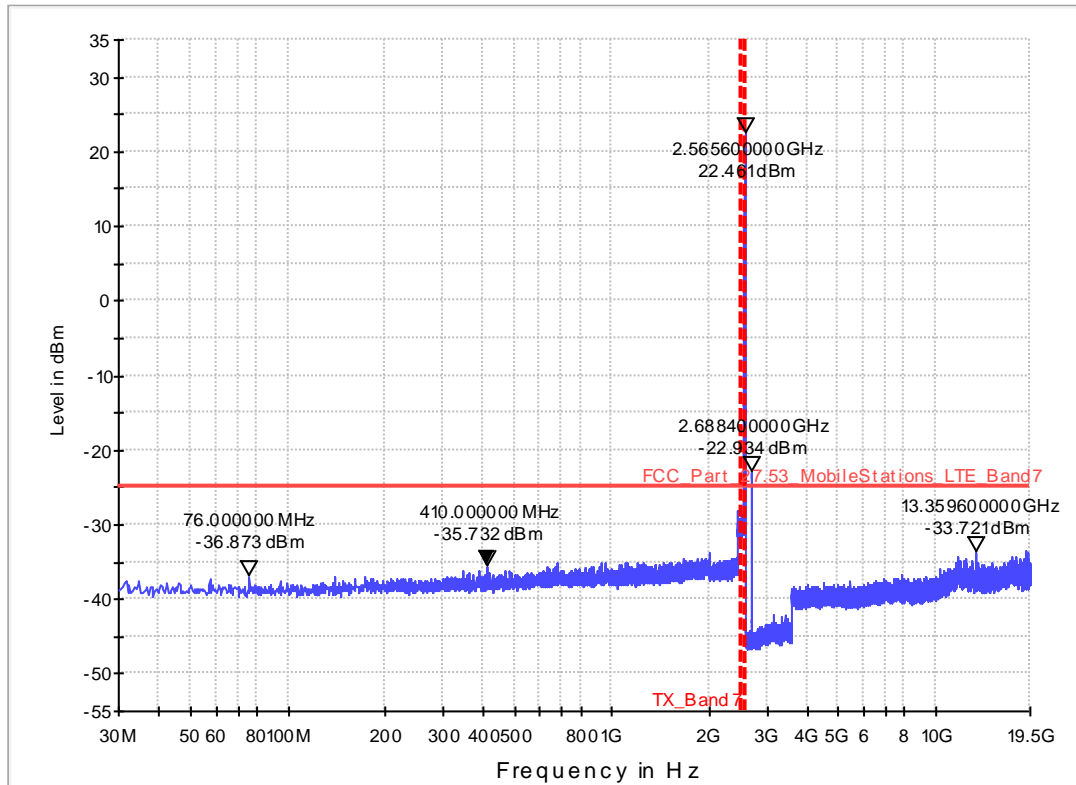
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 27.53(m)(4)
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Lor
Operating mode:	LTE Band7 TX: TX - Channel 21425/ 25RB/ BW= 5MHz / Modulation=QAM
Test SW Version:	EMC32 V8.53.0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
Model:	ATM-01 T1-ROW-4G
Type:	GSM/UMTS/LTE Mobile Device

EUT:	PKD0354BD1b
HW version:	202.005.005
SW version:	001.014.004
SVN:	02
Config:	C03
Serial number:	IMEI: 35190606-000068-7
Connected Interfaces:	power cable, antenna cable, microphone, loudspeaker
Power Supply:	14VDC external
Comments:	-

Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz



Remark: Carrier uplink and downlink visible on diagram, not relevant for results.

Scan Setup: Fula2_FCC_27_LTE_Bd7_Scan2_30MHz_19.5GHz [EMI radiated]

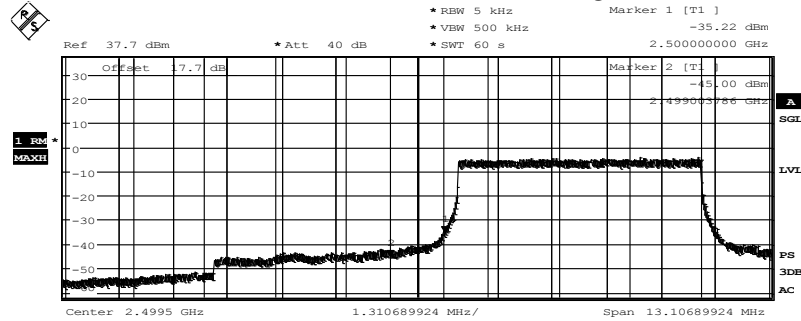
Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver: [ESU 40]
Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2.45 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.45 GHz - 2.572 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB
2.572 GHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.01 s	0 dB

1.7. Conducted emissions – band - edge (LTE Band 7)

1.7.1. Band - edge low

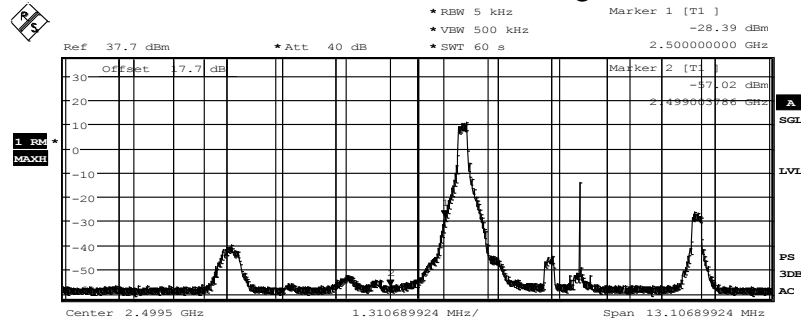
37.701_BE_Low_Ch20775_BW_5_25RB_QPSK



Channel	Bandwidth	Spacing	Lower	Upper
Tx Channel	1.000 MHz		-18.87 dBm	
Adjacent	1.000 MHz	1.000 MHz	-22.37 dB	14.47 dB
Alternate	1.000 MHz	2.000 MHz	-23.38 dB	15.83 dB
2nd Alt	1.000 MHz	3.000 MHz	-24.70 dB	15.86 dB
3rd Alt	1.000 MHz	4.000 MHz	-28.39 dB	16.06 dB
4th Alt	1.000 MHz	5.000 MHz	-32.47 dB	14.78 dB
5th Alt	1.000 MHz	6.000 MHz	-33.37 dB	-18.56 dB

Date: 10.JUL.2014 11:00:34

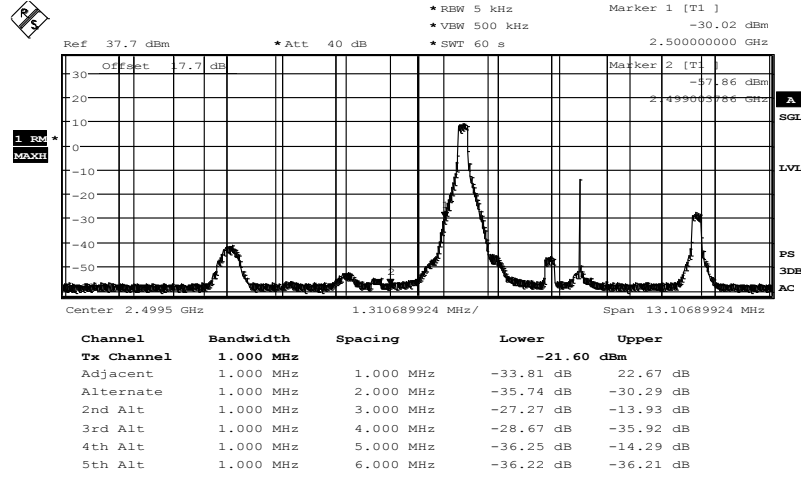
37.702_BE_Low_Ch20775_BW_5_1RB_QPSK



Channel	Bandwidth	Spacing	Lower	Upper
Tx Channel	1.000 MHz		-21.00 dBm	
Adjacent	1.000 MHz	1.000 MHz	-33.65 dB	23.59 dB
Alternate	1.000 MHz	2.000 MHz	-35.67 dB	-29.62 dB
2nd Alt	1.000 MHz	3.000 MHz	-26.17 dB	-13.88 dB
3rd Alt	1.000 MHz	4.000 MHz	-27.90 dB	-35.81 dB
4th Alt	1.000 MHz	5.000 MHz	-36.26 dB	-13.49 dB
5th Alt	1.000 MHz	6.000 MHz	-36.20 dB	-36.20 dB

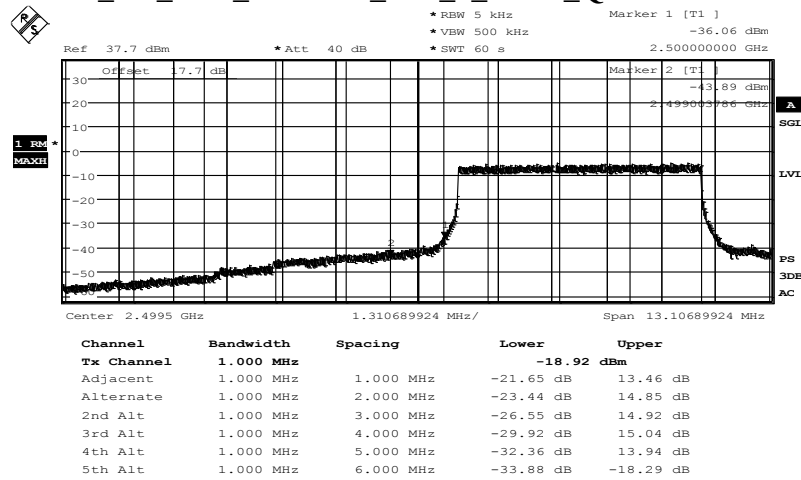
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37.703_BE_Low_Ch20775_BW_5_1RB_QAM



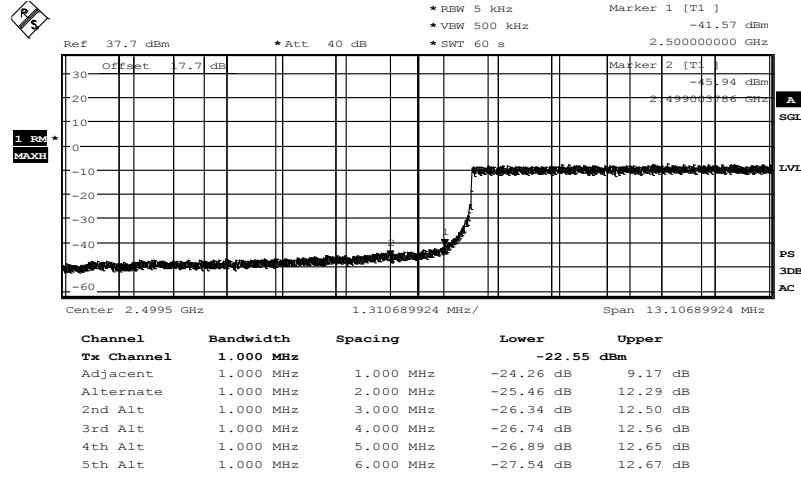
Date: 10.JUL.2014 11:08:32

37.704_BE_Low_Ch20775_BW_5_25RB_QAM



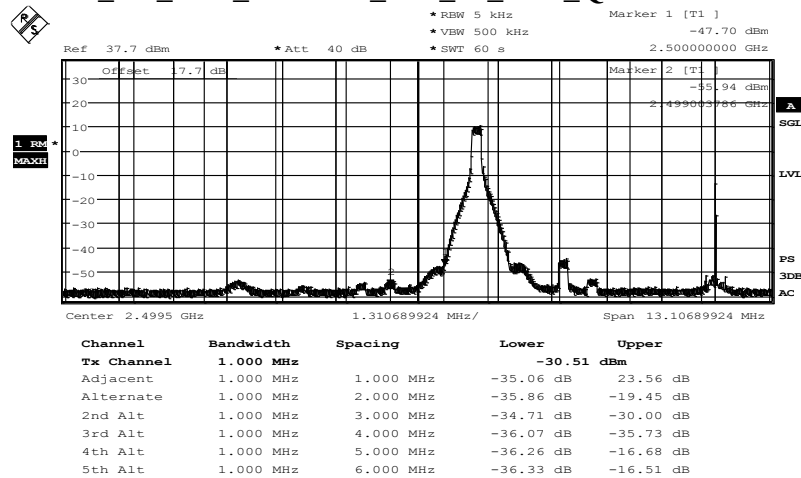
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37.705_BE_Low_Ch20800_BW_10_50RB_QPSK



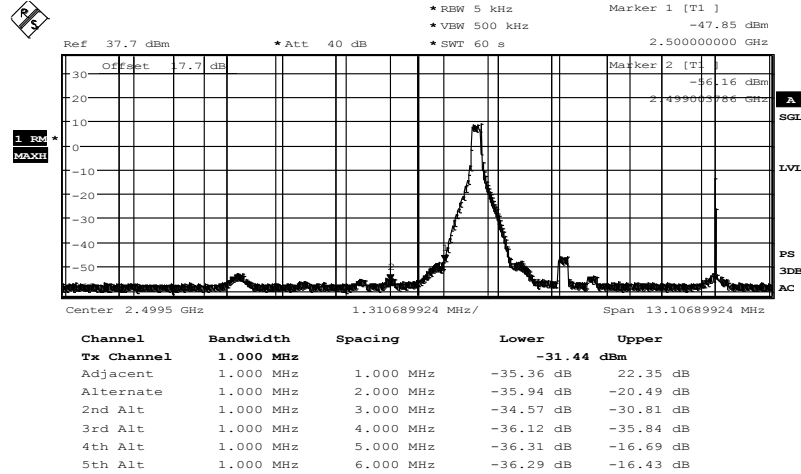
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37.706_BE_Low_Ch20800_BW_10_1RB_QPSK



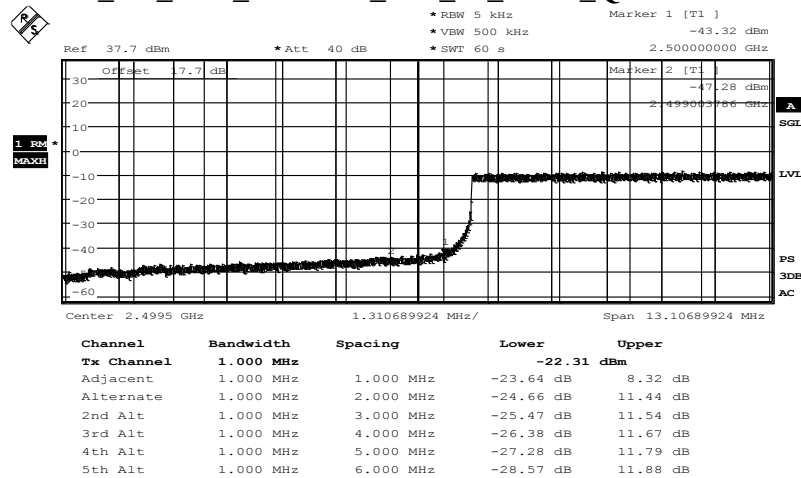
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37.707_BE_Low_Ch20800_BW_10_1RB_QAM



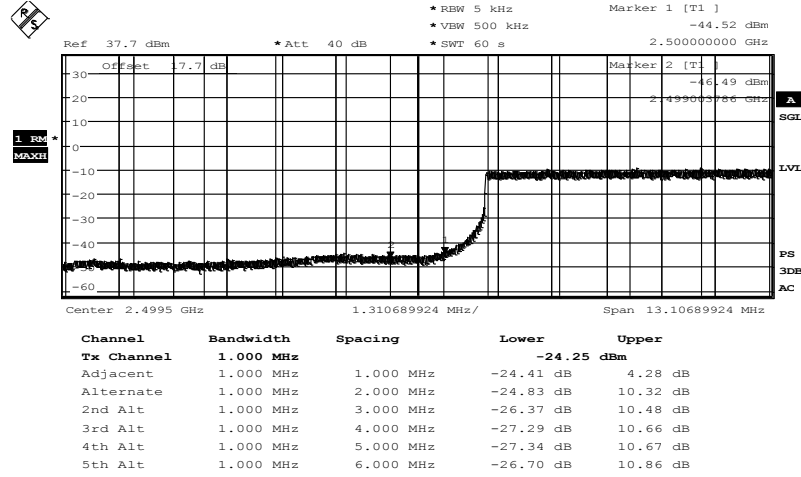
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37.708_BE_Low_Ch20800_BW_10_50RB_QAM



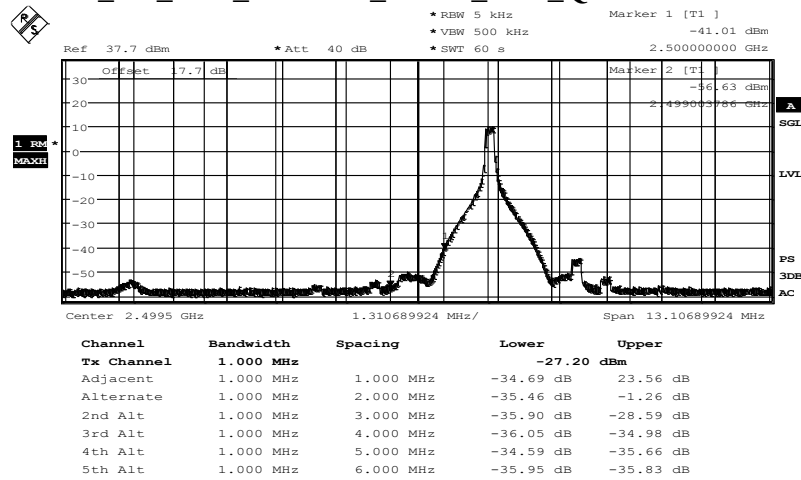
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37.709_BE_Low_Ch20825_BW_15_75RB_QPSK



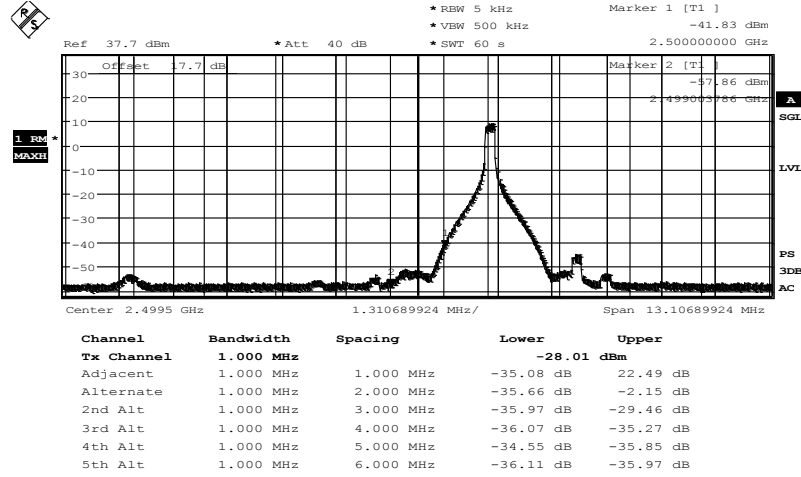
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37.710_BE_Low_Ch20825_BW15_1RB_QPSK



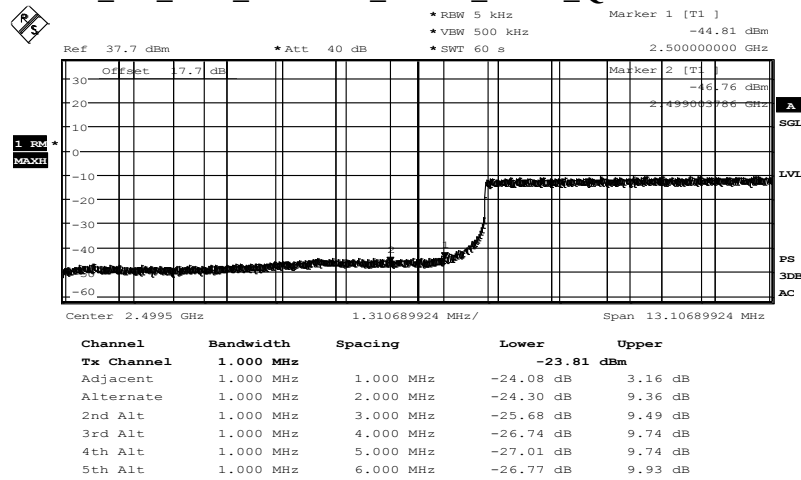
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37.711_BE_Low_Ch20825_BW15_1RB_QAM



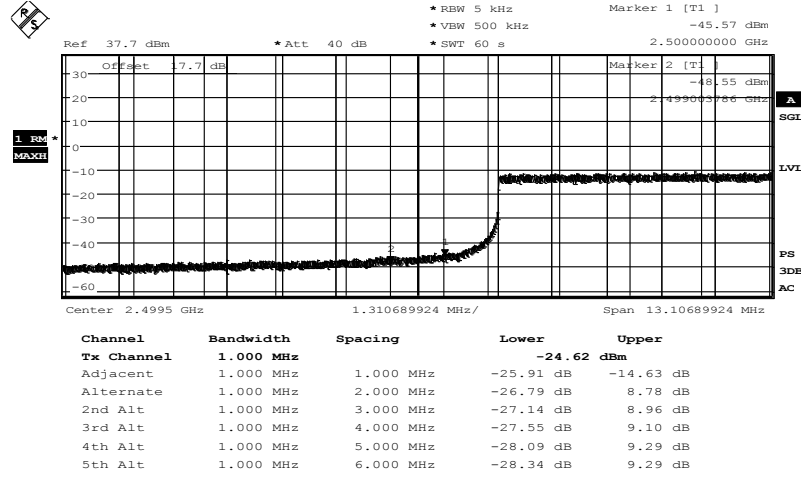
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37.712_BE_Low_Ch20825_BW15_75RB_QAM



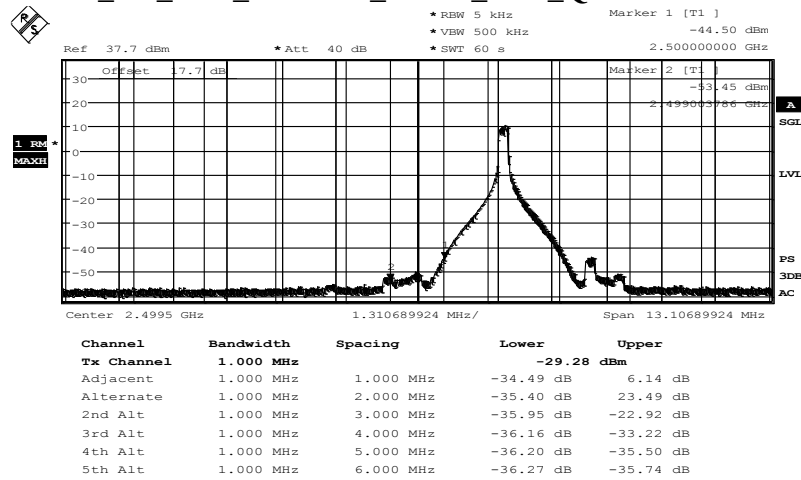
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37.713_BE_Low_Ch20850_BW20_100RB_QPSK



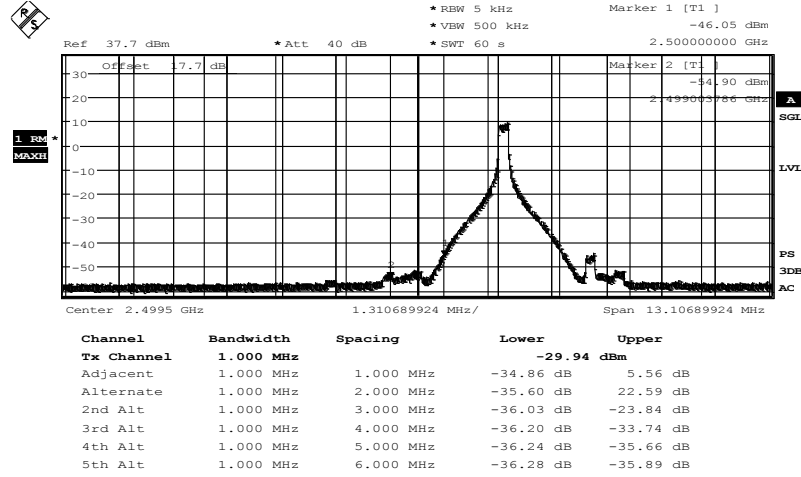
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37.714_BE_Low_Ch20850_BW20_1RB_QPSK



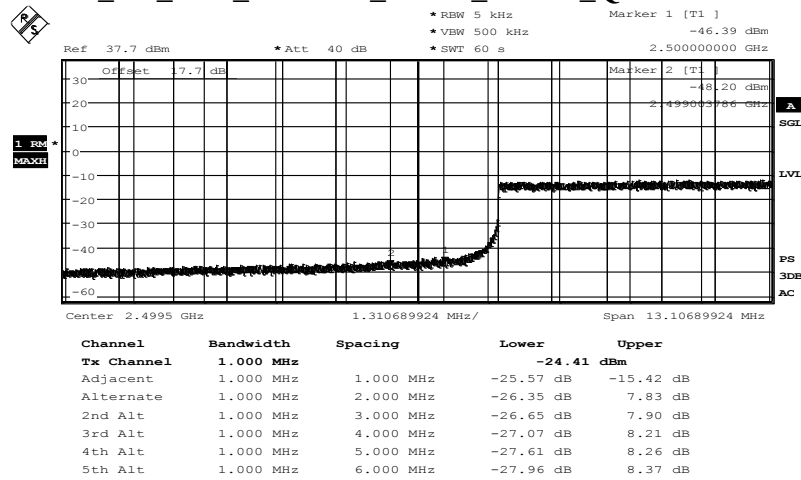
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37.715_BE_Low_Ch20850_BW20_1RB_QAM



Date: 10.JUL.2014 11:40:49

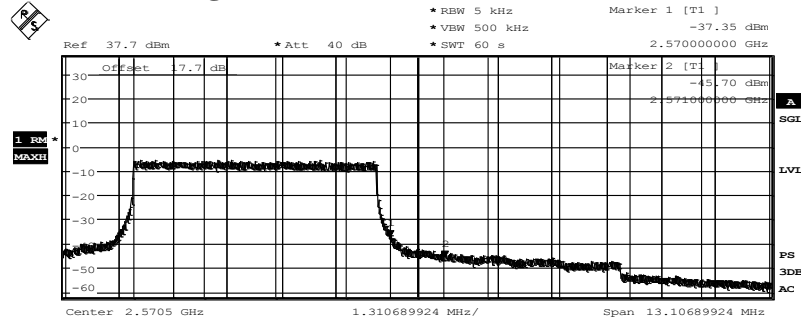
37.716_BE_Low_Ch20850_BW20_100RB_QAM



Date: 10.JUL.2014 11:42:43

1.7.2. Band - edge high

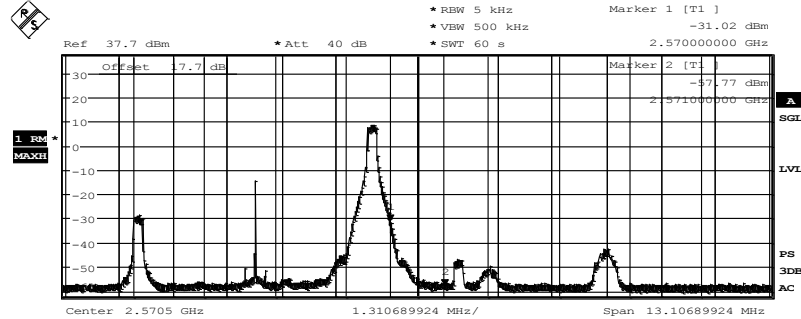
37.766_BE_High_Ch21425_BW5MHz_25RB_QPSK



Channel	Bandwidth	Spacing	Lower	Upper
Tx Channel	1.000 MHz			-20.56 dBm
Adjacent	1.000 MHz	1.000 MHz	13.09 dB	-23.93 dB
Alternate	1.000 MHz	2.000 MHz	14.56 dB	-25.23 dB
2nd Alt	1.000 MHz	3.000 MHz	14.64 dB	-26.70 dB
3rd Alt	1.000 MHz	4.000 MHz	14.86 dB	-29.94 dB
4th Alt	1.000 MHz	5.000 MHz	13.73 dB	-33.40 dB
5th Alt	1.000 MHz	6.000 MHz	-18.84 dB	-34.43 dB

Date: 10.JUL.2014 13:59:13

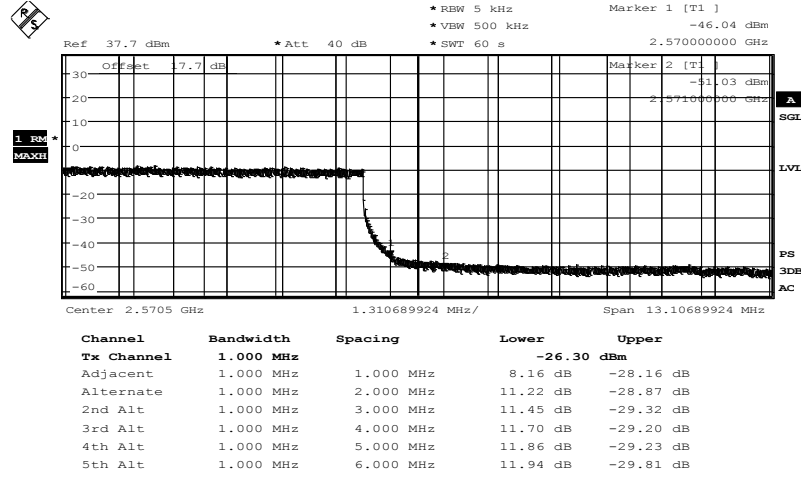
37.767_BE_High_Ch21425_BW5MHz_1RB_QPSK



Channel	Bandwidth	Spacing	Lower	Upper
Tx Channel	1.000 MHz			-23.41 dBm
Adjacent	1.000 MHz	1.000 MHz	21.92 dB	-30.54 dB
Alternate	1.000 MHz	2.000 MHz	-33.11 dB	-35.95 dB
2nd Alt	1.000 MHz	3.000 MHz	-14.60 dB	-29.26 dB
3rd Alt	1.000 MHz	4.000 MHz	-35.71 dB	-30.25 dB
4th Alt	1.000 MHz	5.000 MHz	-15.76 dB	-36.26 dB
5th Alt	1.000 MHz	6.000 MHz	-36.08 dB	-36.26 dB

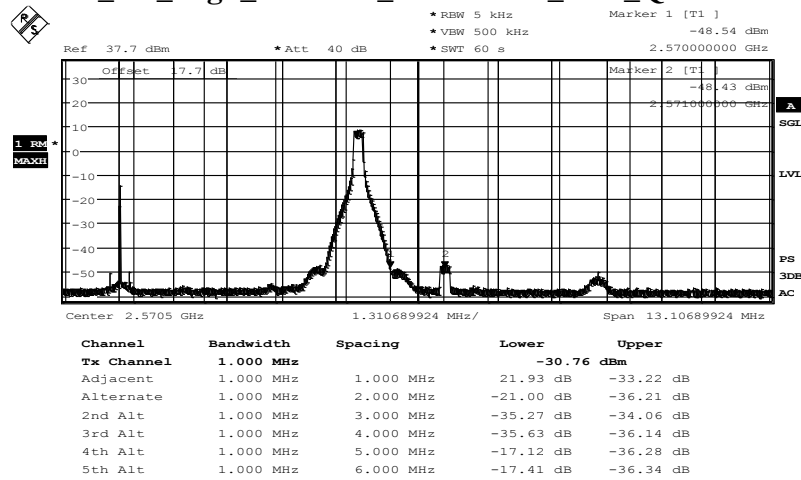
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37.768_BE_High_Ch21400_BW10MHz_25RB_QPSK



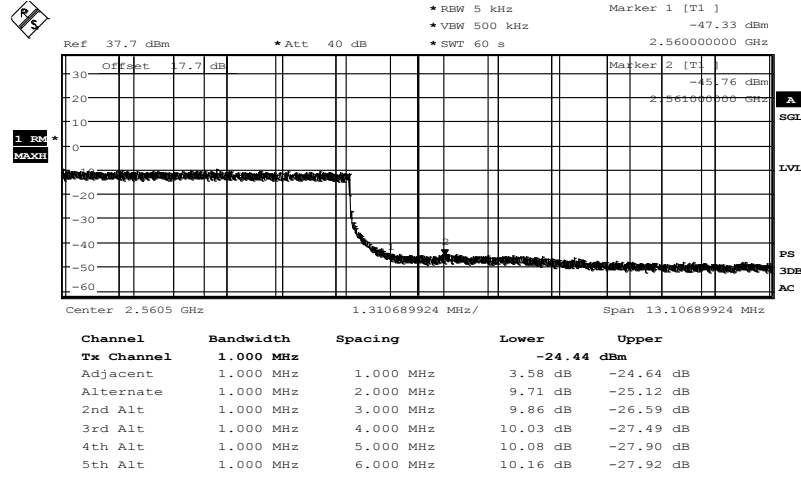
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37.769_BE_High_Ch21400_BW10MHz_1RB_QPSK



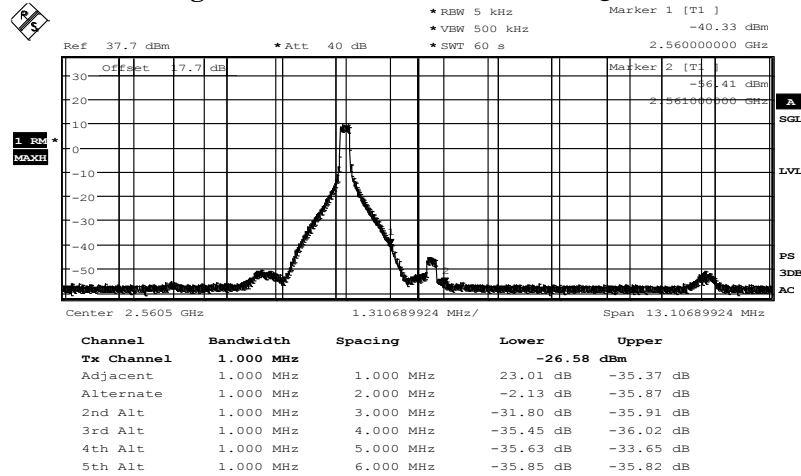
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37.770_BE_High_Ch21375_BW15MHz_75RB_QPSK



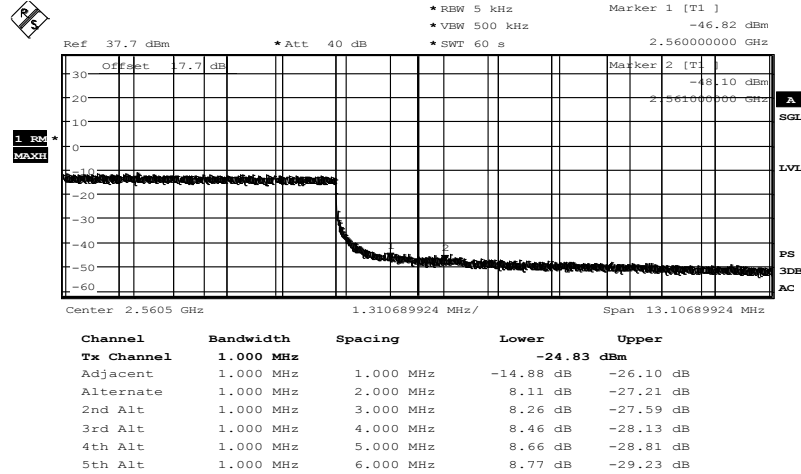
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37.771_BE_High_Ch21375_BW15MHz_1RB_QPSK



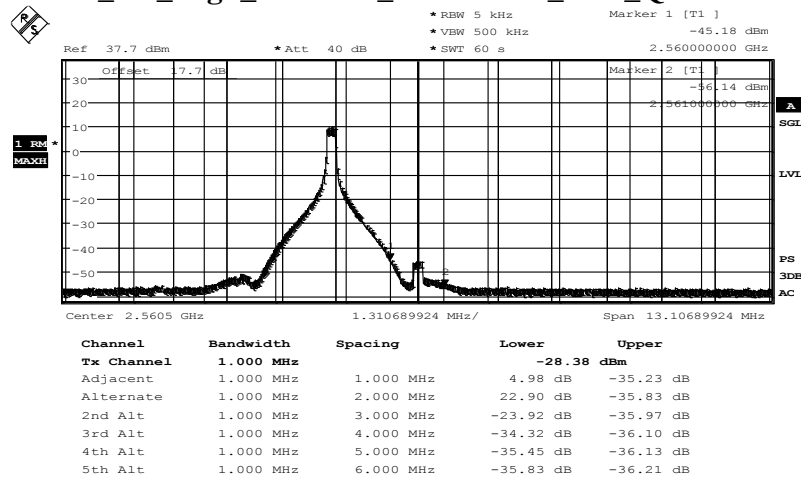
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37.772_BE_High_Ch21350_BW20MHz_100RB_QPSK



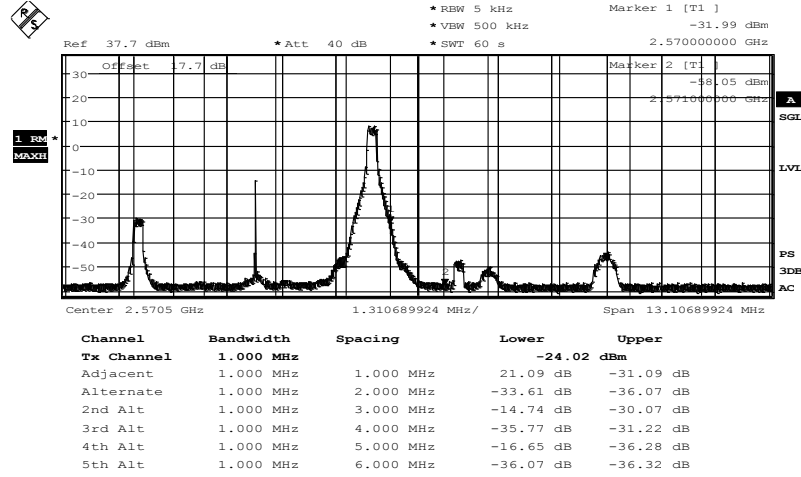
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37.773_BE_High_Ch21350_BW20MHz_1RB_QPSK



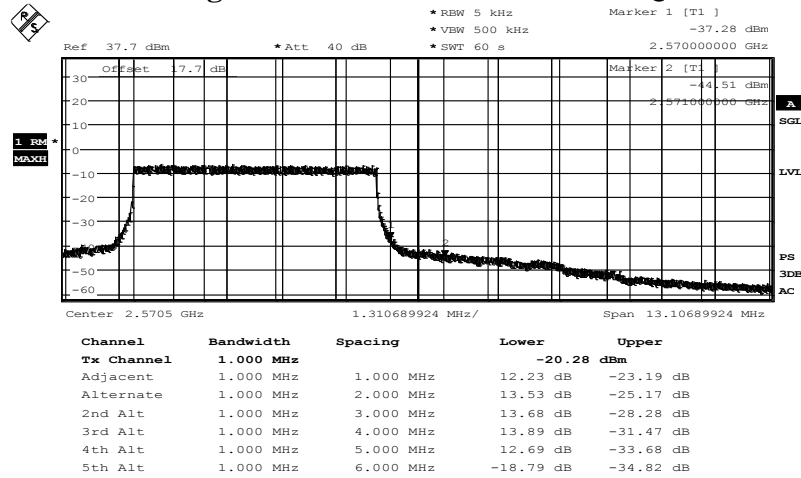
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37.774_BE_High_Ch21425_BW5MHz_1RB_QAM



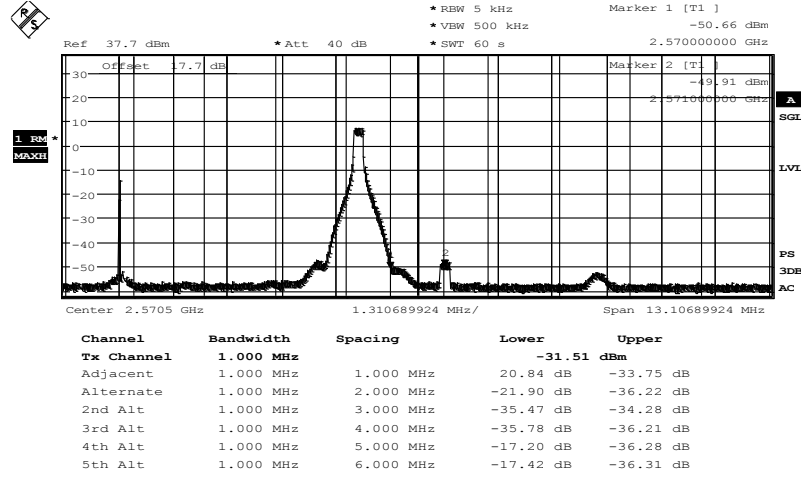
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37.775_BE_High_Ch21425_BW5MHz_25RB_QAM



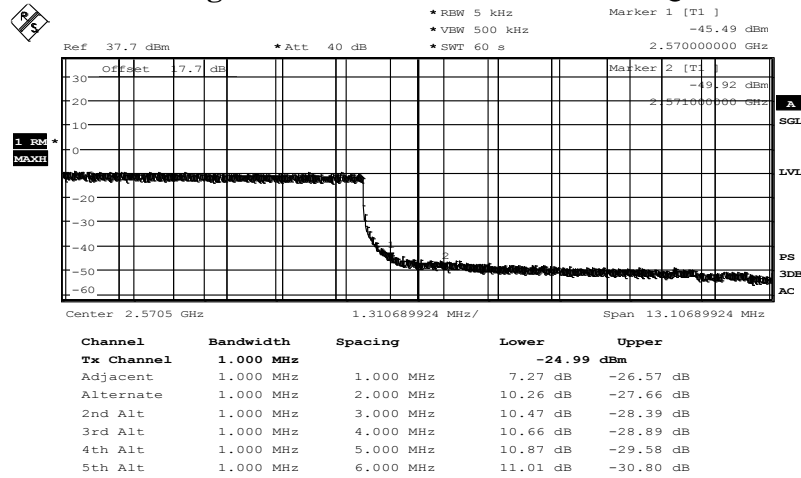
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37.776_BE_High_Ch21400_BW10MHz_1RB_QAM



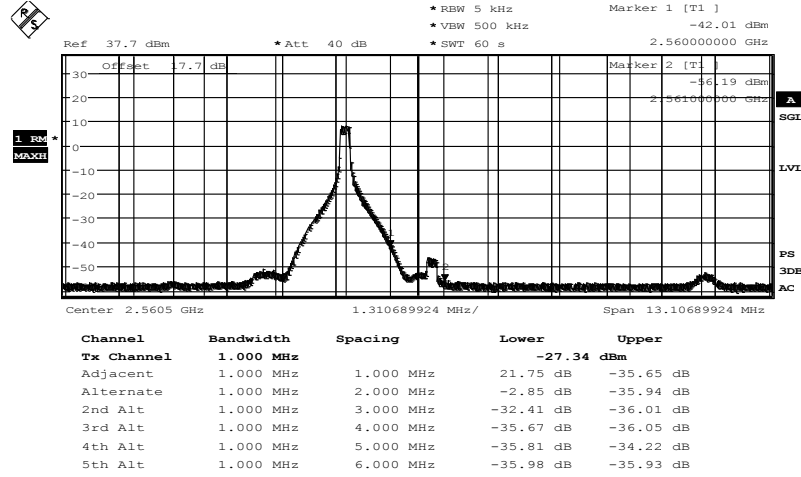
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37.777_BE_High_Ch21400_BW10MHz_25RB_QAM



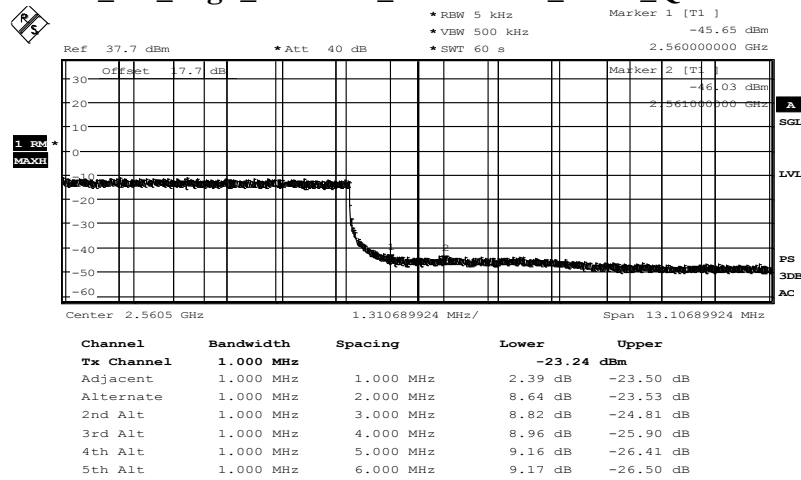
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37.778_BE_High_Ch21375_BW15MHz_1RB_QAM



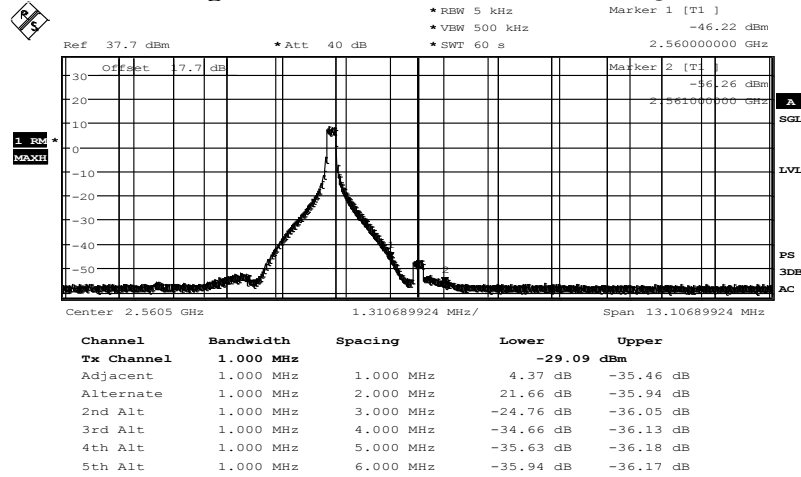
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37.779_BE_High_Ch21375_BW15MHz_75RB_QAM



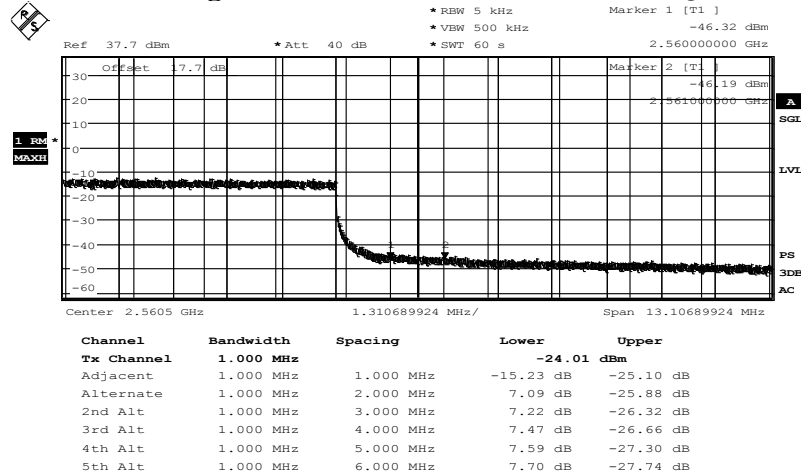
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37.780_BE_High_Ch21350_BW20MHz_1RB_QAM



Date: 10.JUL.2014 14:58:19

37.781_BE_High_Ch21350_BW20MHz_100RB_QAM



Date: 10.JUL.2014 14:56:26