

**Annex 4: Diagrams to
to T E S T R E P O R T**
No.: 6-0491-14-1-23c

According to:
FCC Regulations
Part 22

IC-Regulations
RSS-132, Issue 3
RSS-Gen, Issue 3

for

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

FCC-ID: QWY-ATM-T-132
IC: 6588A-ATMT132

Laboratory Accreditation and Listings			
 Deutsche Akkreditierungsstelle D-PL-12047-01-01	 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
 AUTHORIZED RF LABORATORY	 Authorized Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com			

Table of contents

1. MEASUREMENT DIAGRAMS LTE-MODE	3
1.1. Magnetic emissions radiated (LTE Band 7)	3
1.2. Spurious emissions radiated (LTE Band 7)	5
1.3. Radiated emissions – band-edge (LTE Band 7)	11
1.3.1. Band - edge low	11
1.3.2. Band - edge high	15
1.4. 26dBc Emission bandwidth	19
1.4.1. LTE Band 7	19
1.5. 99% occupied bandwidth	23
1.5.1. LTE Band 7	23
1.6. Spurious emissions conducted (LTE Band 7)	27
1.7. Conducted emissions – band - edge (LTE Band 7)	51
1.7.1. Band - edge low	51
1.7.2. Band - edge high	83

1. Measurement diagrams LTE-mode

1.1. Magnetic emissions radiated (LTE Band 5)

Diagram No. 2.14a_LTE5_BW5

Test description:	Magnetic Fieldstrength 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; RSS-Gen: Issue 3
Operator:	GA
Operating conditions:	LTE Band 5 TCH
Environmental conditions:	Humidity: 58% Temperature: 23°C
Power during tests:	14V DC
Comment 1:	Channel 20525 (Mid) / BW 5 / RB. 15, start. 7 / QPSK
Comment 2:	Vertical Orientation

EUT Information

Manufacturer:	peiker acustic 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

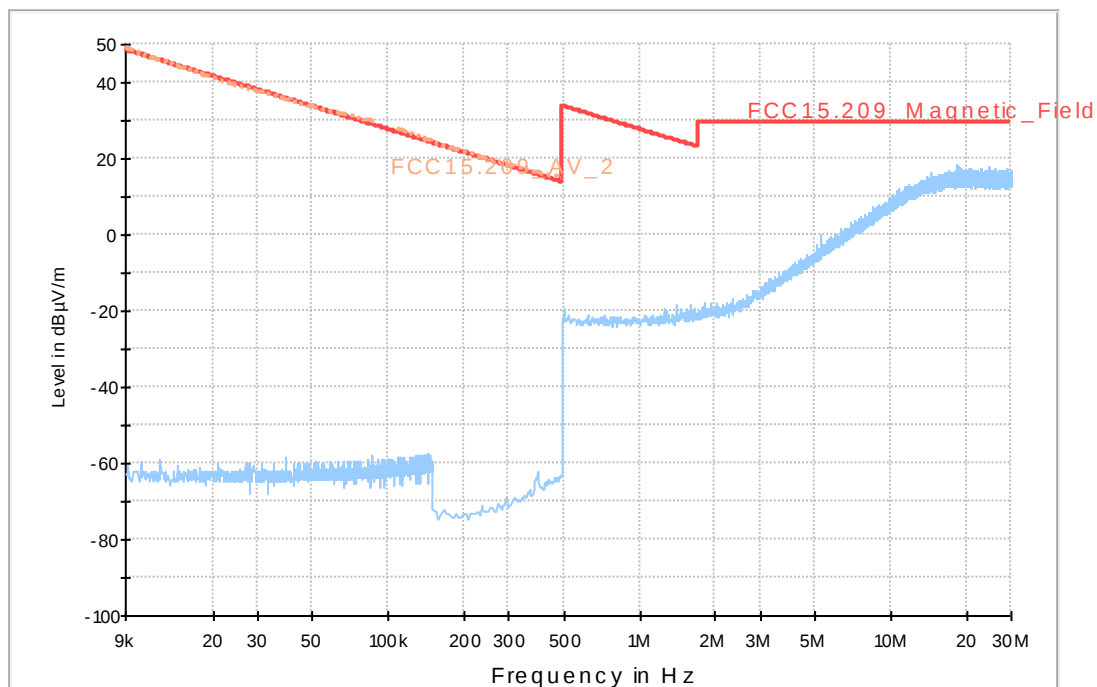


Diagram No. 2.18a_LTE5_BW10

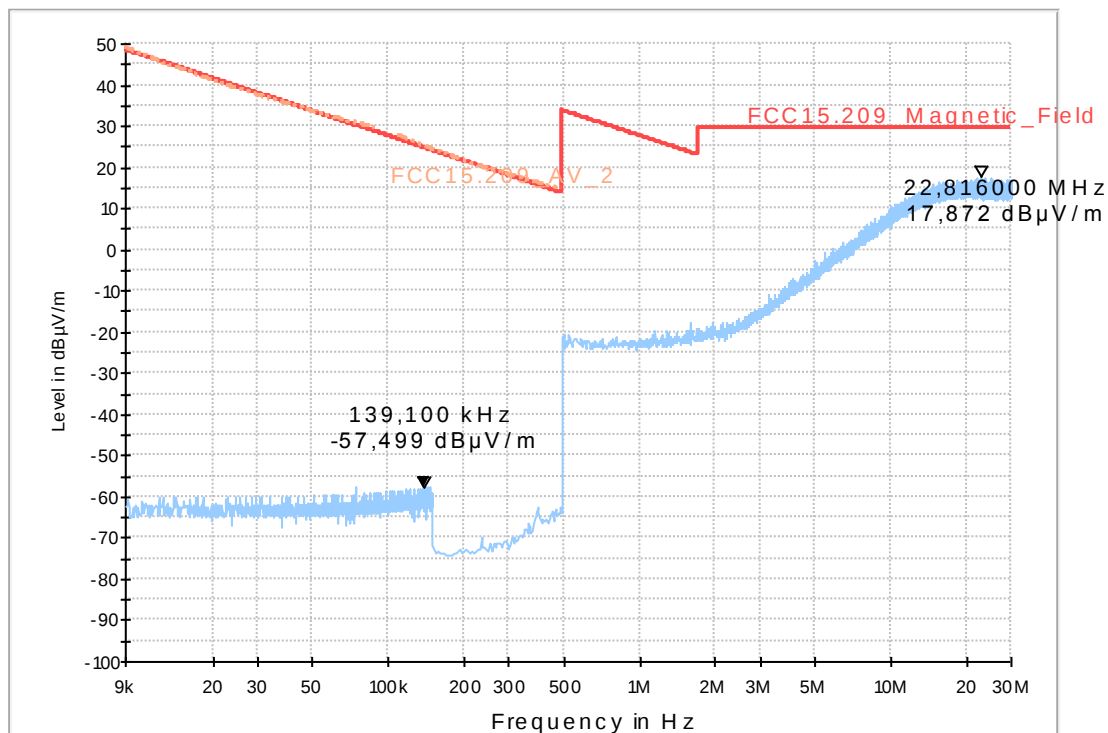
Date:	18.07.2014	Page 1 of 1
Test description:	Magnetic Fieldstrength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3	
Operating Mode:	LTE FDD5, BW 10MHz, RB 50, Ch20600	
Operator:	FTe	
Operating conditions:	Humidity: 56%rH; Temperature: 24°C	
Power during test:	14V DC	
Comment:	EUT in vertical position	

EUT Information

Manufacturer:	peiker acustic 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 5)

8.56a_RSE_R_Ch20407_BW_1_4

Common Information

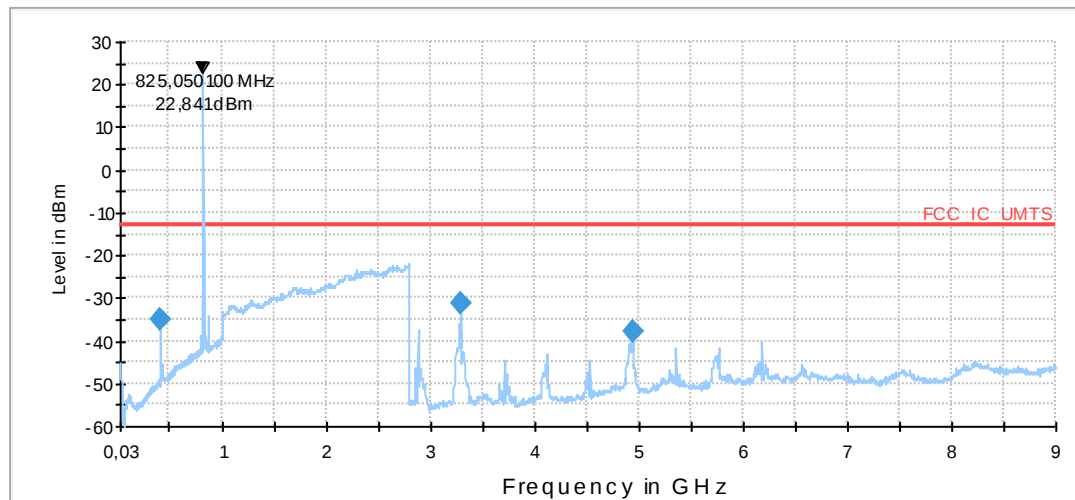
Test Description: Radiated Spurious Emissions LTE FDDV
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22.917(a)
 Operating Mode: UE allocated channel 20407 (fc = 824,7 MHz), QPSK
 Environmental Conditions: Humidity: 22%rH; Temperature: 58°C
 Operator: FTe

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: -

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)	Comment
412.194389	-35.1	10000.0	1000.000	V	1.0	-82.2	22.1	-13.0	
3297.284569	-31.4	10000.0	1000.000	V	327.0	-95.7	18.4	-13.0	
4945.761523	-37.7	10000.0	1000.000	V	99.0	-90.9	24.7	-13.0	

8.56b_RSE_R_Ch20407_BW_1_4

Common Information

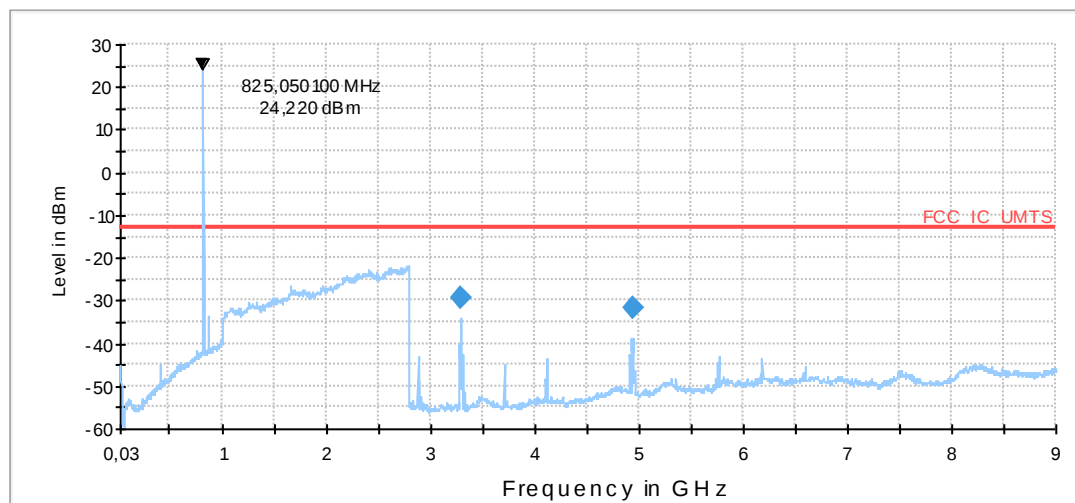
Test Description: Radiated Spurious Emissions UMTS FDDV
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22.917(a)
 Operating Mode: UE allocated channel 20407 (fc = 824,7 MHz), QPSK
 Environmental Conditions: Humidity: 22%rH; Temperature: 58°C
 Operator: FTe

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: -

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)	Comment
3297.044088	-29.4	10000.0	1000.000	H	67.0	-95.7	16.4	-13.0	
4945.861723	-31.5	10000.0	1000.000	H	72.0	-90.9	18.5	-13.0	

8.57a_RSE_R_Ch20525_BW_5

Common Information

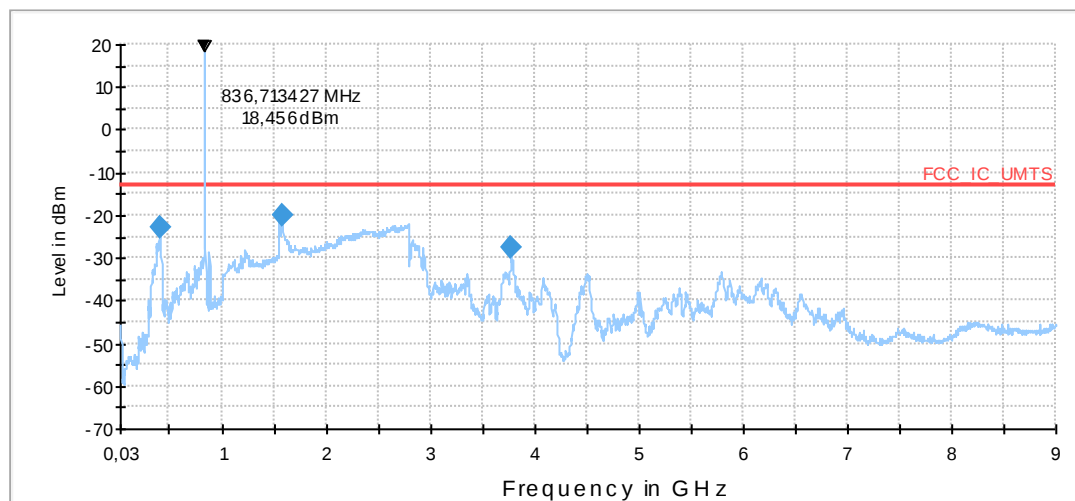
Test Description: Radiated Spurious Emissions LTE FDDV
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22.917(a)
 Operating Mode: UE allocated channel 20525 (fc = 836,5 MHz), QPSK
 Operating Conditions: Humidity: 22%rH; Temperature: 58°C
 Operator Name: FTe

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: -

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)	Comment
408.206413	-22.7	10000.0	1000.000	H	189.0	-82.3	9.7	-13.0	
1587.985972	-19.8	10000.0	1000.000	V	313.0	-64.2	6.8	-13.0	
3777.244489	-27.7	10000.0	1000.000	V	-16.0	-95.1	14.7	-13.0	

8.57b_RSE_R_Ch20525_BW_5

Common Information

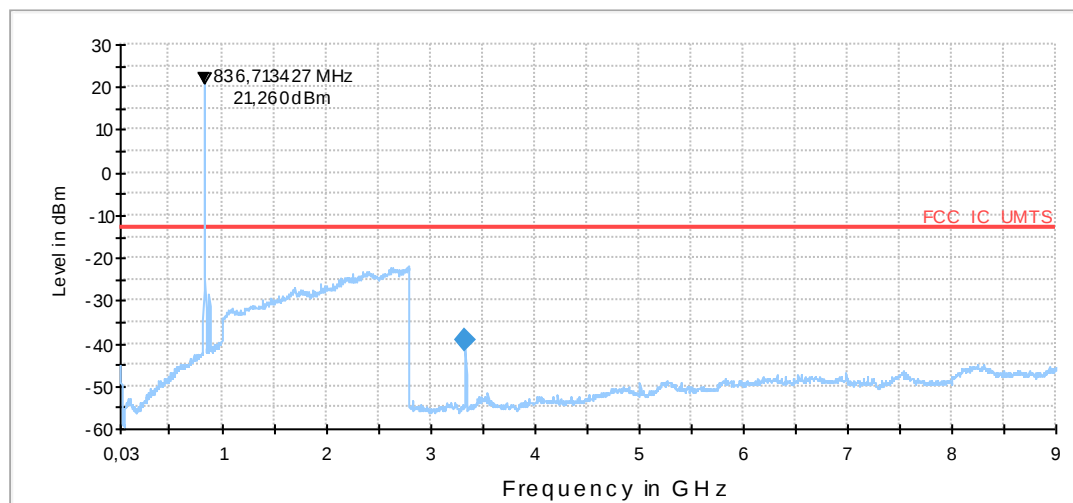
Test Description: Radiated Spurious Emissions UMTS FDDV
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22.917(a)
 Operating Mode: UE allocated channel 20525 (fc = 836,5 MHz), QPSK
 Environmental Conditions: Humidity: 22%rH; Temperature: 58°C
 Operator: FTe

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: -

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)	Comment
3341.352706	-39.1	10000.0	1000.000	H	313.0	-95.6	26.1	-13.0	

8.58a_RSE_R_Ch20600_BW_10

Common Information

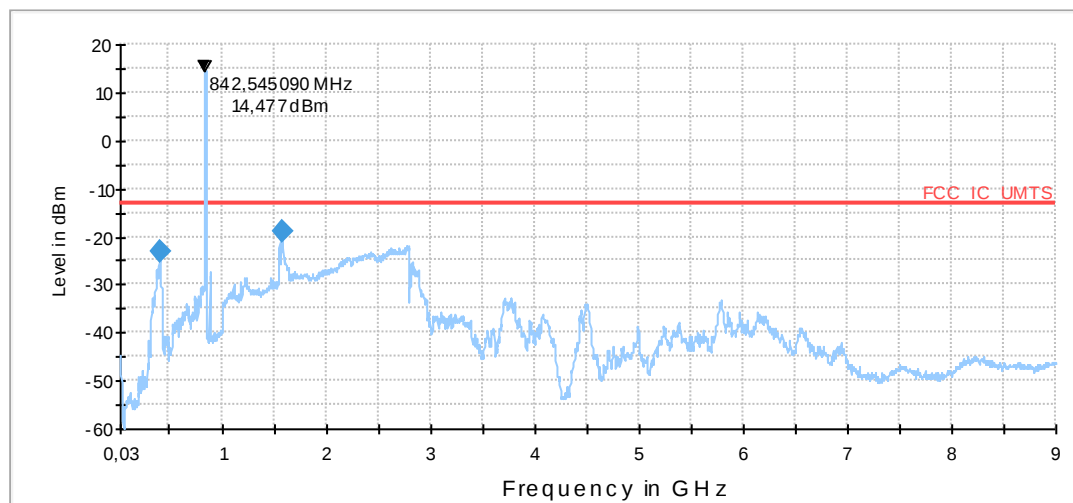
Test Description: Radiated Spurious Emissions LTE FDDV
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Room (FAR)
 Test Standard: FCC Part 22.917(a)
 Operating Mode: UE allocated channel 20600 (fc = 844 MHz), QPSK
 Operating Conditions: Humidity: 22%rH; Temperature: 58°C
 Operator Name: FTe

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: -

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)	Comment
407.565130	-23.0	10000.0	1000.000	H	185.0	-82.3	10.0	-13.0	
1585.400802	-19.0	10000.0	1000.000	V	299.0	-64.3	6.0	-13.0	

8.58b_RSE_R_Ch20600_BW_10**Common Information**

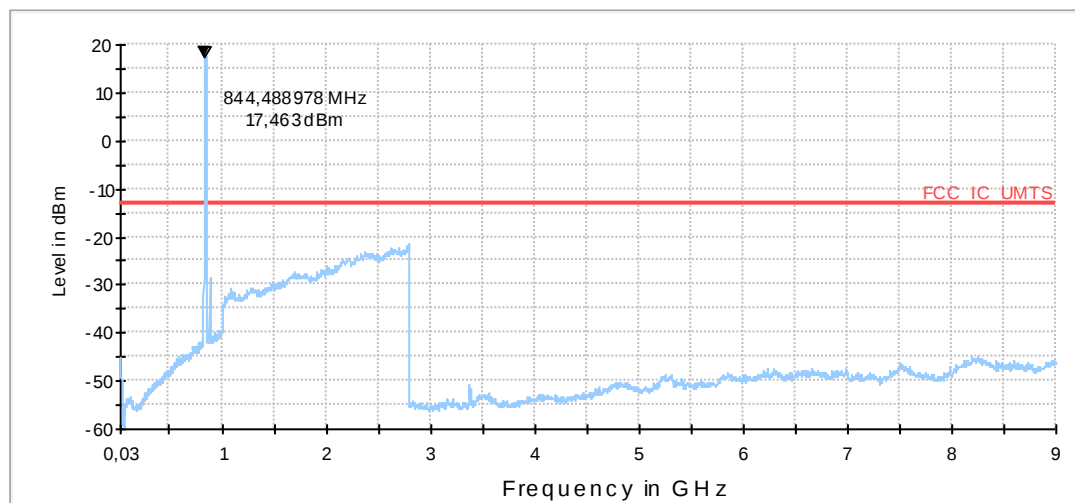
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20600 (fc = 844 MHz), QPSK
Environmental Conditions:	Humidity: 22%rH; Temperature: 58°C
Operator:	FTE

EUT Information

Manufacturer:	peiker acustic 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:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G_no_kipp



1.3. Radiated emissions – band-edge (LTE Band 5)

1.3.1. Band - edge low

9.504a_BE_R_Ch20415_BW3MHz_1RB_QPSK_laying

Common Information

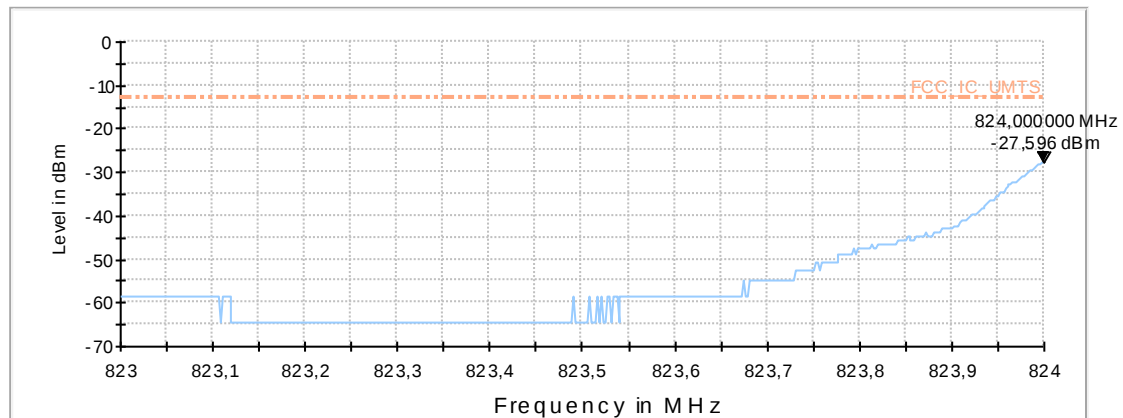
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20415 / 3MHz BW/ 1RB low/ QPSK
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
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:	-

030415_FCC_Part22_LTE_Bd5_TX_Ch20415_BE_low_BW_3



9.504a_BE_R_Ch20415_BW3MHz_1RB_QPSK

Common Information

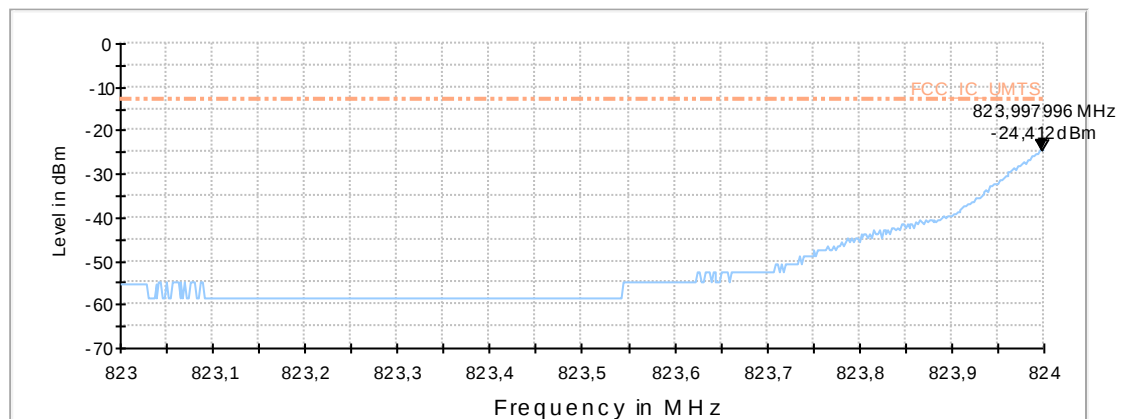
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20415 7 3MHz BW/ 1RB low / QPSK
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
Remarks:	EUT - standing position

EUT Information

Manufacturer:	peiker acustic 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:	-

030415_FCC_Part22_LTE_Bd5_TX_Ch20415_BE_low_BW_3



9.504b_BE_R_Ch20415_BW3MHz_1RB_QAM_laying

Common Information

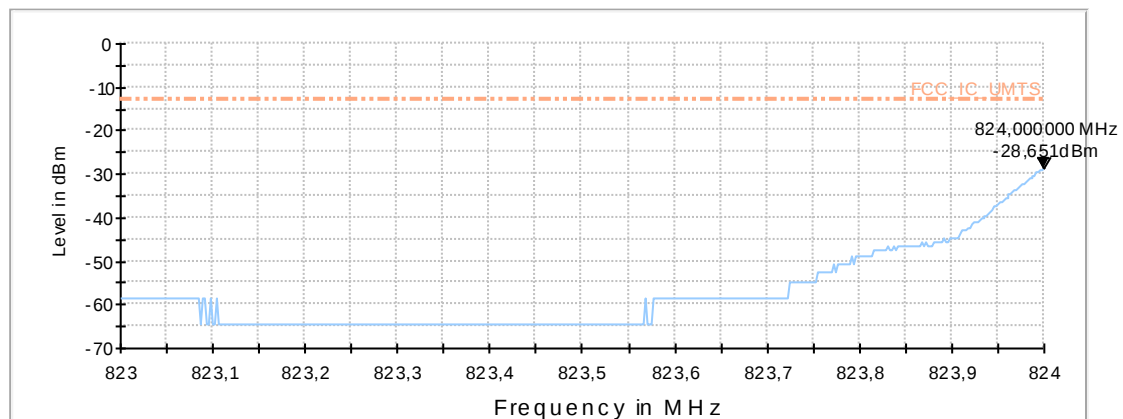
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20415 / 3MHz BW/ 1RB low/ QPSK
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
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:	-

030415_FCC_Part22_LTE_Bd5_TX_Ch20415_BE_low_BW_3



9.504b_BE_R_Ch20415_BW3MHz_1RB_QAM_standing

Common Information

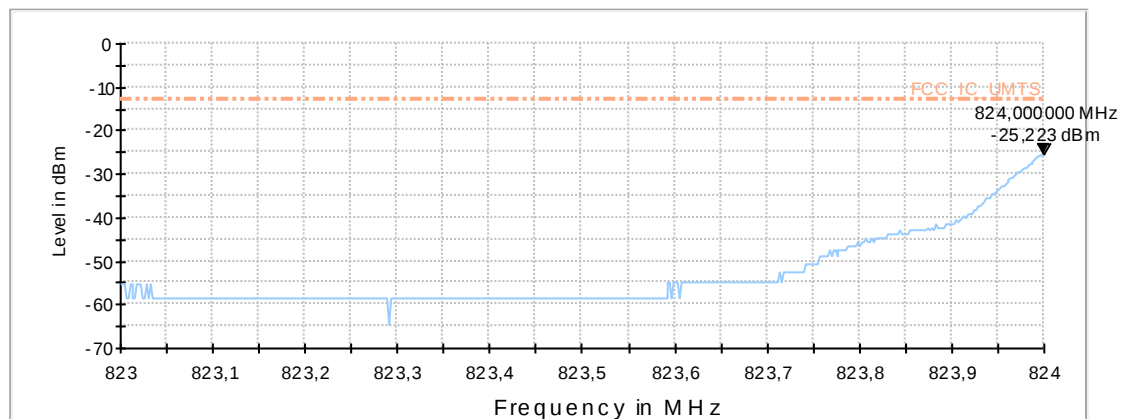
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20415 7 3MHz BW/ 1RB low / QAM
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
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:	-

030415_FCC_Part22_LTE_Bd5_TX_Ch20415_BE_low_BW_3



1.3.2. Band - edge high

9.506a_BE_R_Ch20635_BW3MHz_1RB_QPSK_laying

Common Information

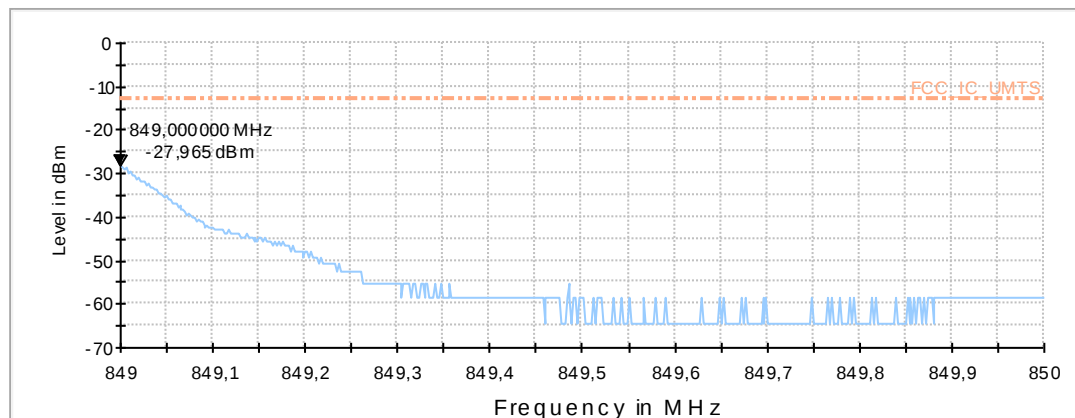
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20635 / 3MHz BW/ 1RB high/ QPSK
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
Remarks:	EUT - laying position

EUT Information

Manufacturer:	peiker acustic 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:	-

030419_FCC_Part22_LTE_Bd5_TX_Ch20635_BE_high_BW_3



9.506a_BE_R_Ch20635_BW3MHz_1RB_QPSK_standing

Common Information

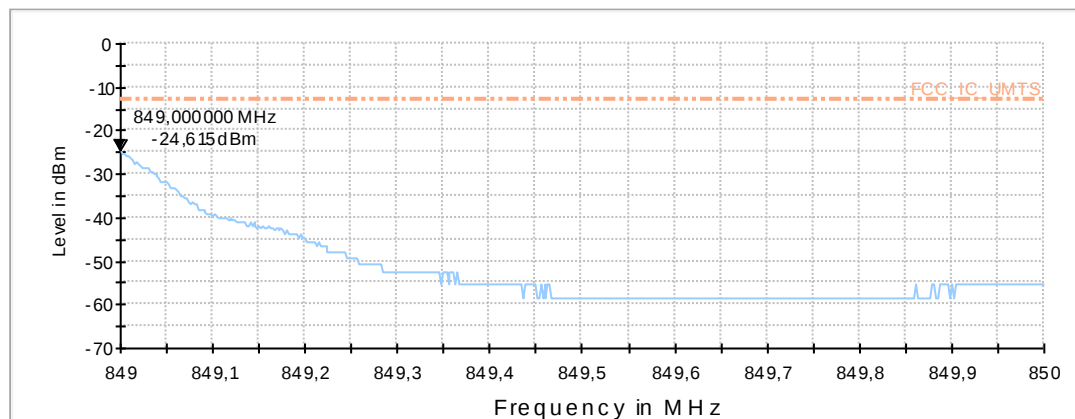
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20635 3MHz BW/ 1RB high/ QAM
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
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:	-

030419_FCC_Part22_LTE_Bd5_TX_Ch20635_BE_high_BW_3



9.506b_BE_R_Ch20635_BW3MHz_1RB_QAM_standing

Common Information

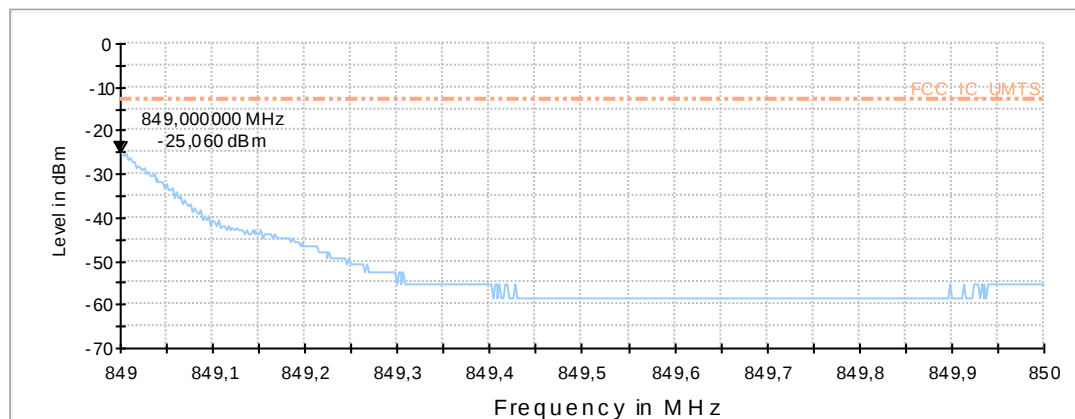
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20635 / 3MHz BW/ 1RB high/ QAM
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
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:	-

030419_FCC_Part22_LTE_Bd5_TX_Ch20635_BE_high_BW_3



9.506b_BE_R_Ch20635_BW3MHz_1RB_QAM_laying

Common Information

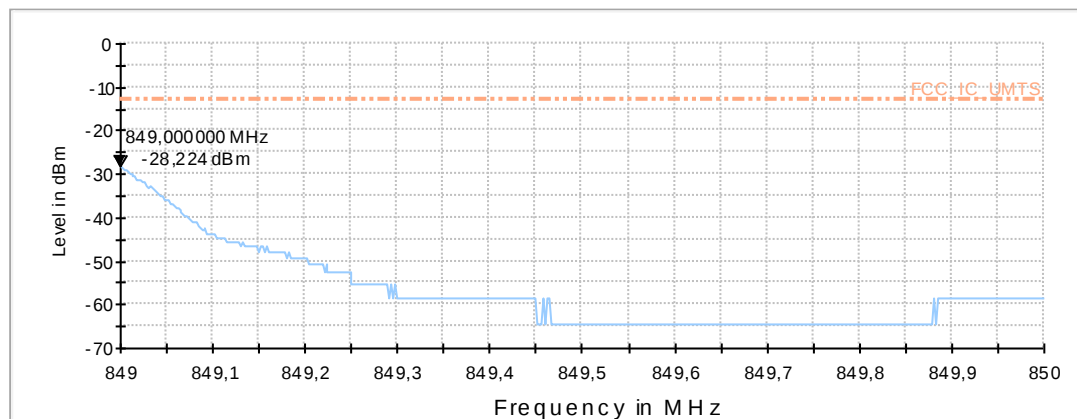
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20635 / 3MHz BW/ 1RB high/ QPSK
Environmental Conditions:	Humidity: 56%rH; Temperature: 23°C
Test SW Version:	EMC32 V8.53.0
Operator:	Lor
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:	-

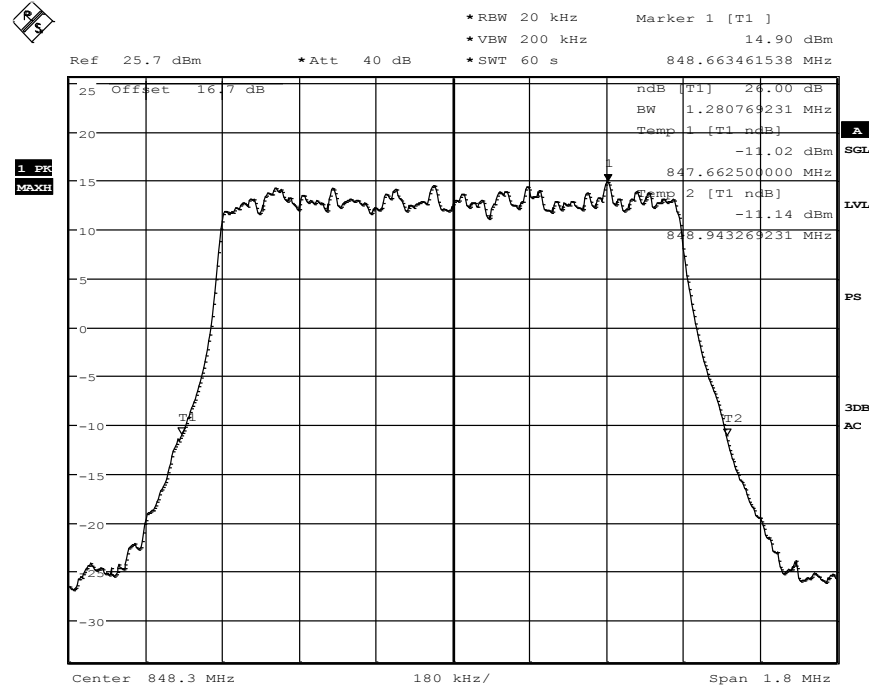
030419_FCC_Part22_LTE_Bd5_TX_Ch20635_BE_high_BW_3



1.4. 26dBc Emission bandwidth

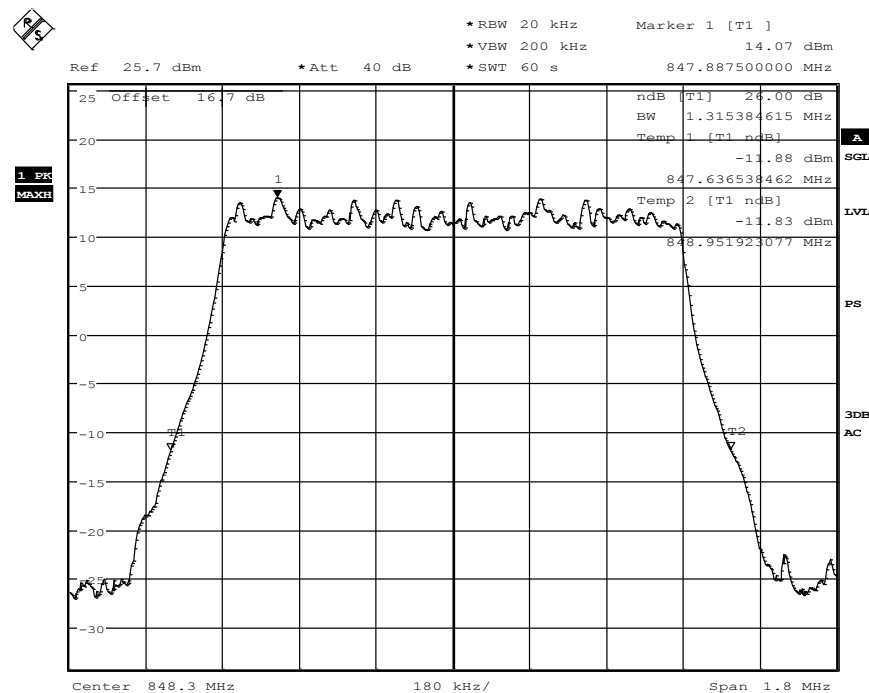
1.4.1. LTE Band 5

1.4.1.1. BW = 1.4MHz



Date: 7.JUL.2014 15:00:22

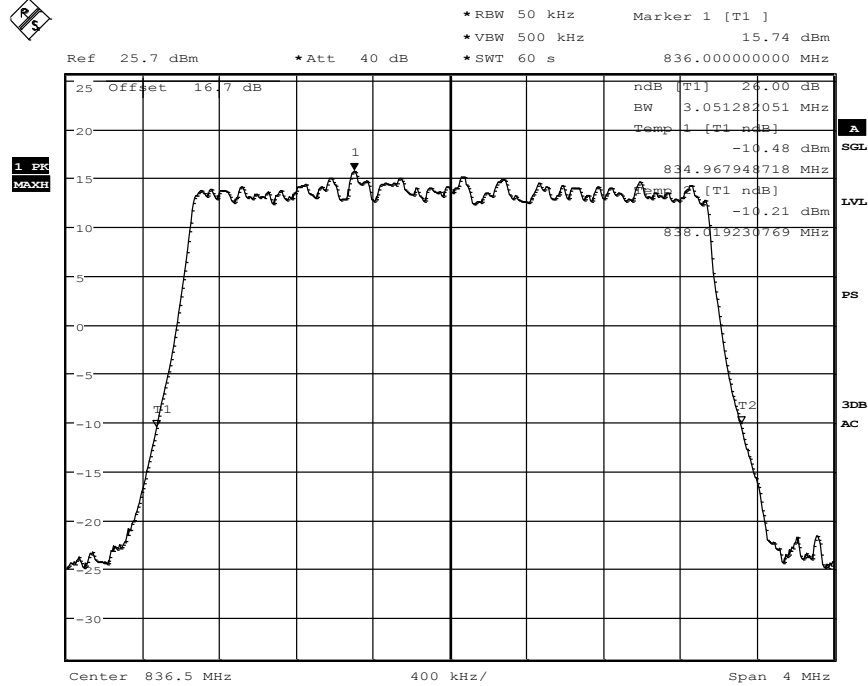
Diagram 34.503 Channel 20643 (848.3MHz) Value = 1.2807MHz
QPSK-Modulation



Date: 7.JUL.2014 14:58:42

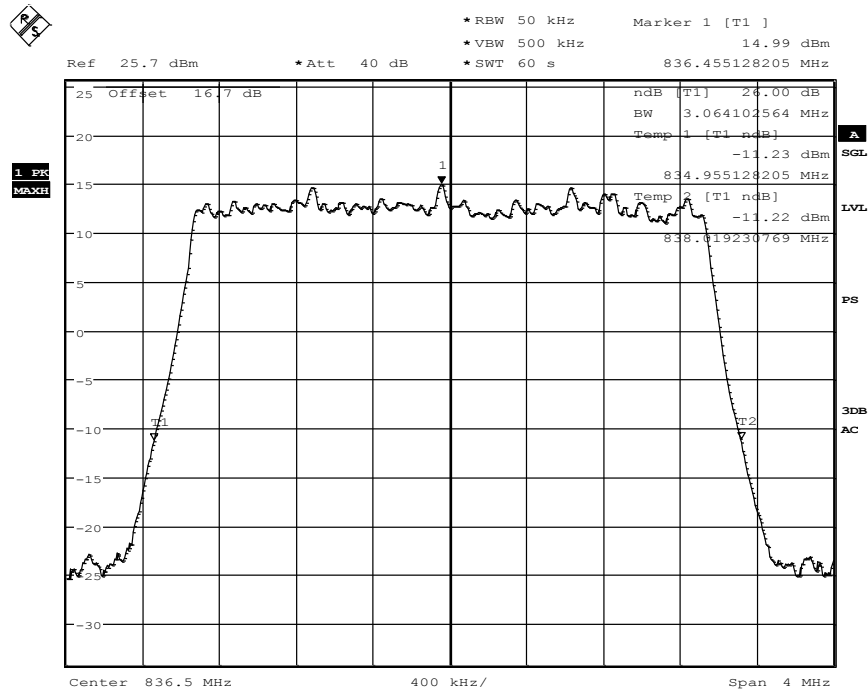
Diagram 34.515 Channel 20643 (848.3MHz) Value = 1.3153MHz
16-QAM-Modulation

1.4.1.2. BW = 3MHz



Date: 7.JUL.2014 15:22:41

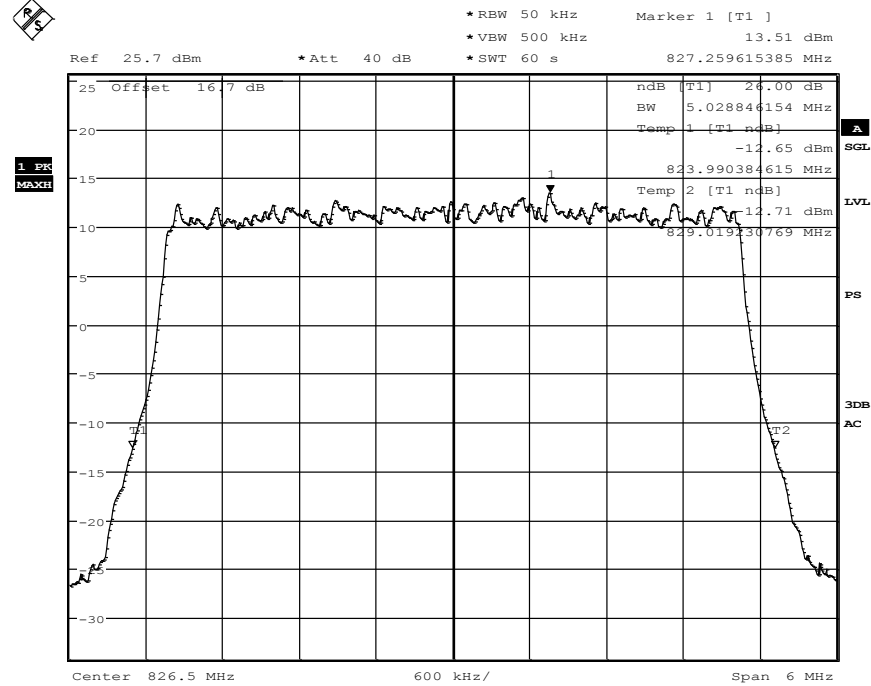
Diagram 34.505 Channel 20525 (836.5MHz) Value = 3.0512MHz
QPSK-Modulation



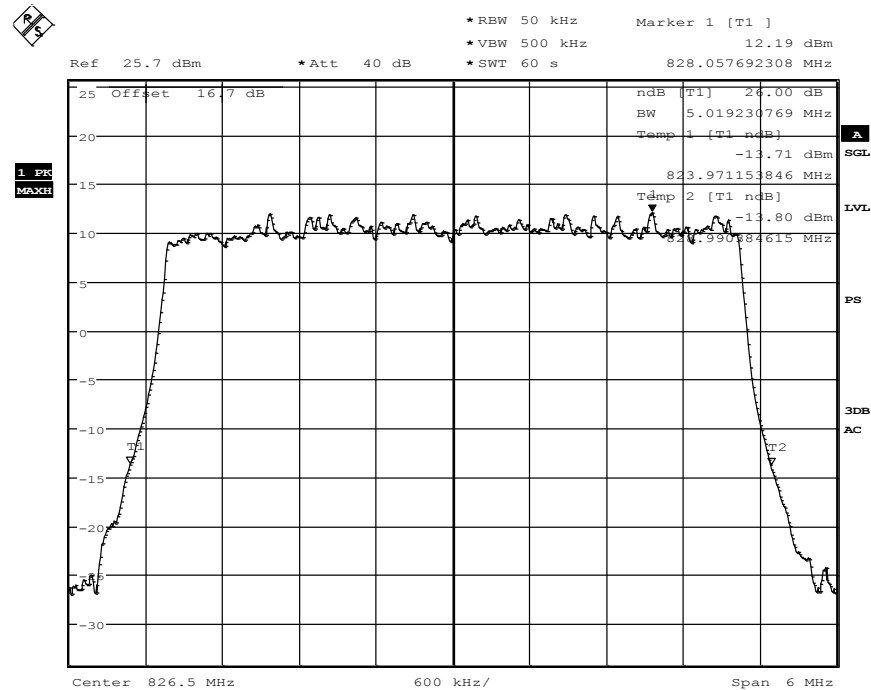
Date: 7.JUL.2014 15:21:02

Diagram 34.517 Channel 20525 (836.5MHz) Value = 3.0641MHz
16-QAM-Modulation

1.4.1.3. BW = 5MHz



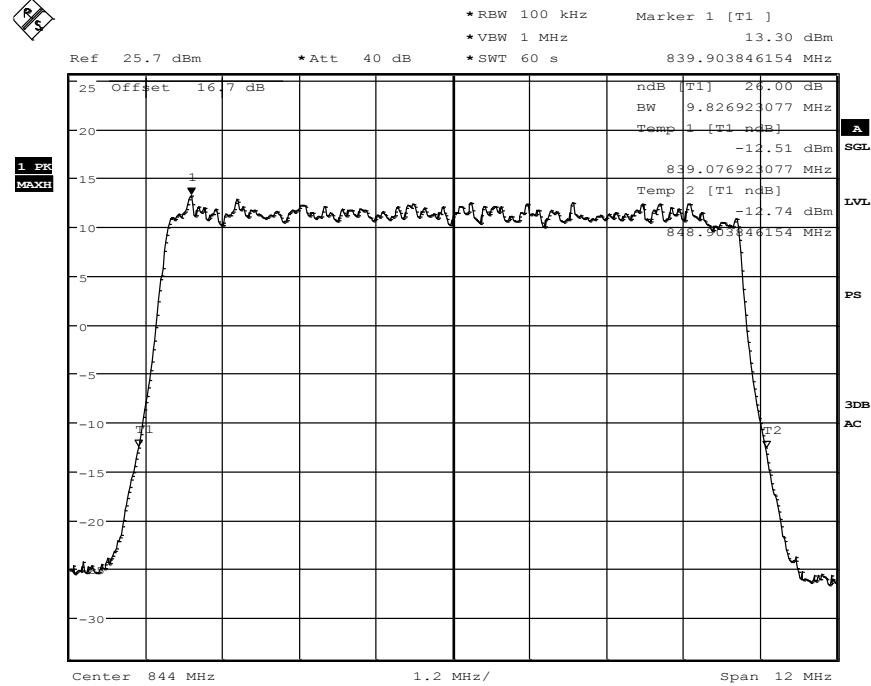
Date: 7.JUL.2014 15:29:15

Diagram 34.507 Channel 20425 (826.5MHz) Value = 5.0288MHz
QPSK-Modulation

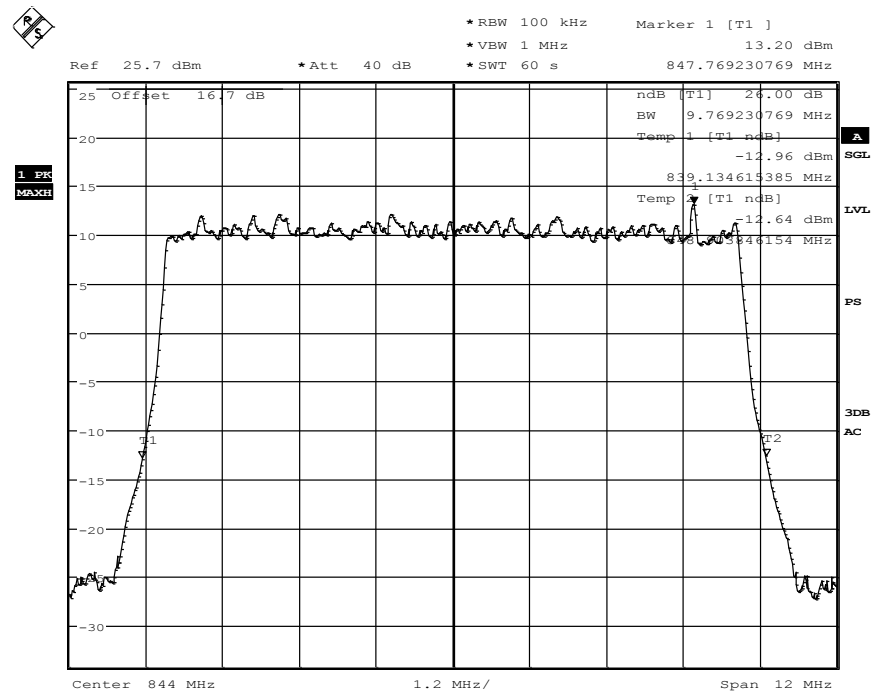
Date: 7.JUL.2014 15:30:45

Diagram 34.519 Channel 20425 (826.5MHz) Value = 5.0192MHz
16-QAM-Modulation

1.4.1.4. BW = 10MHz



Date: 7.JUL.2014 15:51:48

Diagram 34.512 Channel 20600 (844.0MHz) Value = 9.8269MHz
QPSK-Modulation

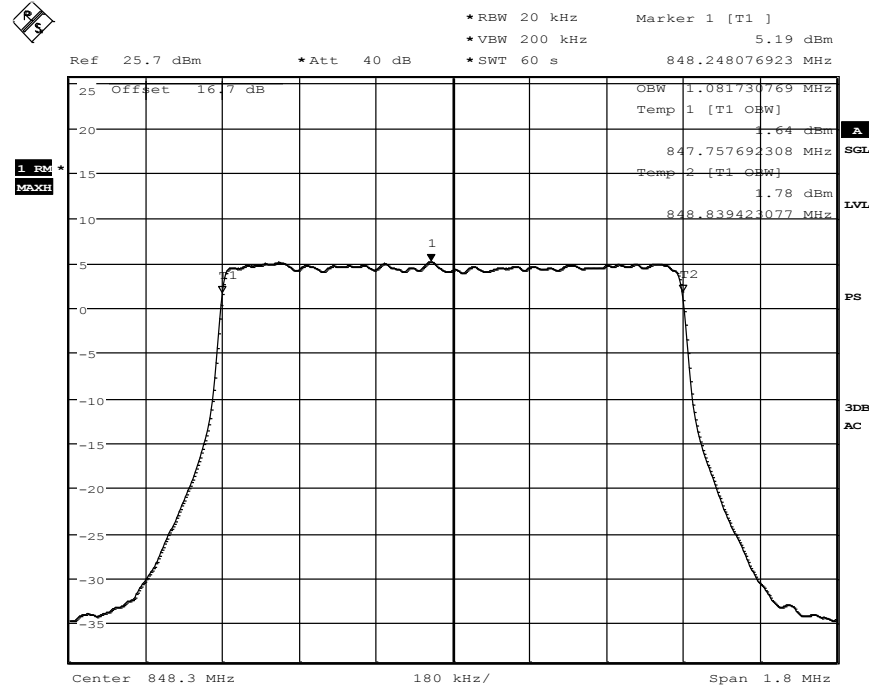
Date: 7.JUL.2014 15:54:31

Diagram 34.524 Channel 20425 (844.0MHz) Value = 9.7692MHz
16-QAM-Modulation

1.5. 99% occupied bandwidth

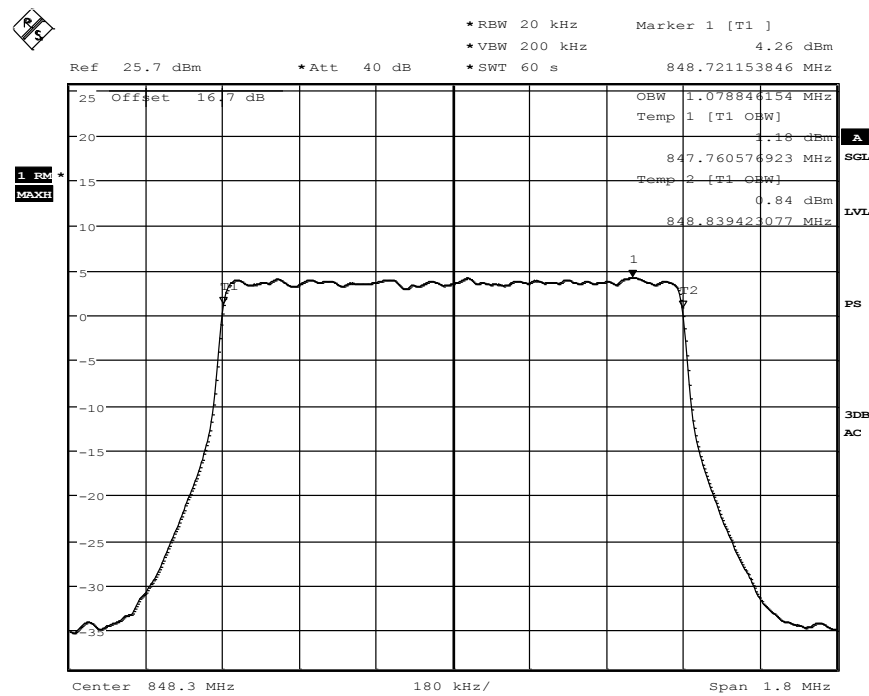
1.5.1. LTE Band 5

1.5.1.1. BW = 1.4MHz



Date: 7.JUL.2014 16:17:00

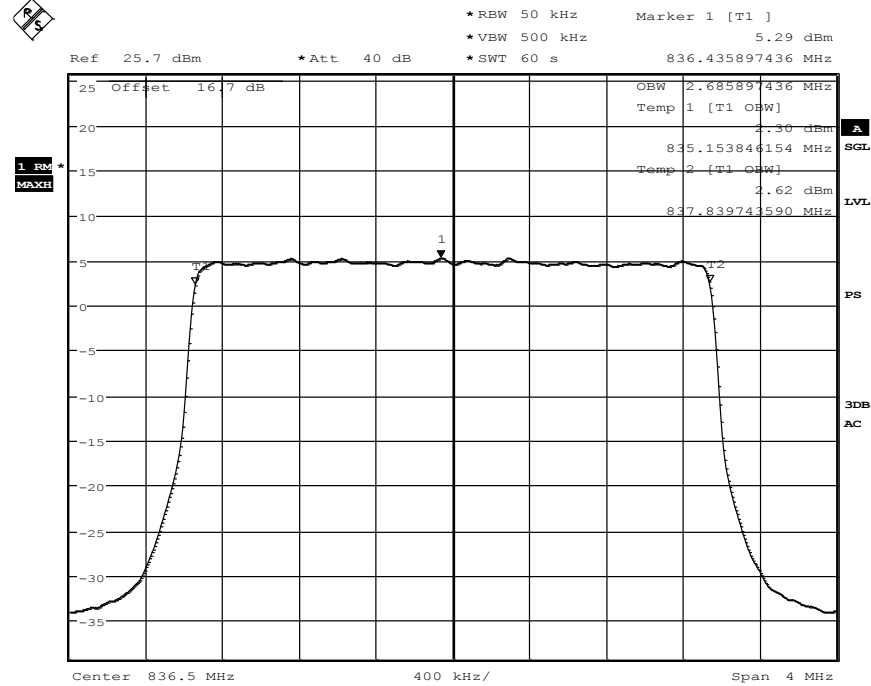
Diagram 35.503 Channel 20643 (848.3MHz) Value = 1.0817MHz
QPSK-Modulation



Date: 7.JUL.2014 16:15:43

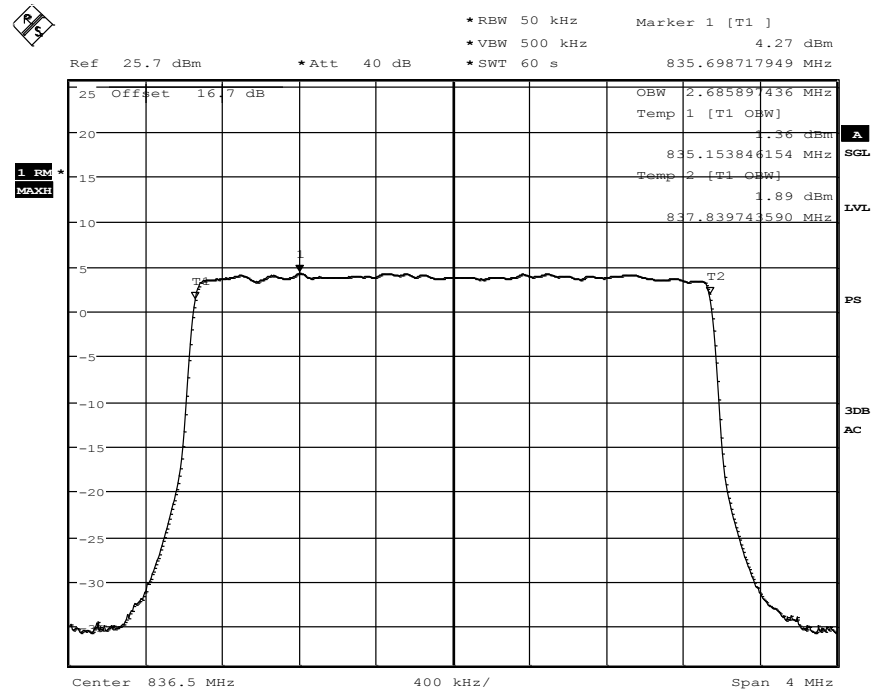
Diagram 35.515 Channel 20643 (848.3MHz) Value = 1.0788MHz
16-QAM-Modulation

1.5.1.2. BW = 3MHz



Date: 7.JUL.2014 16:12:50

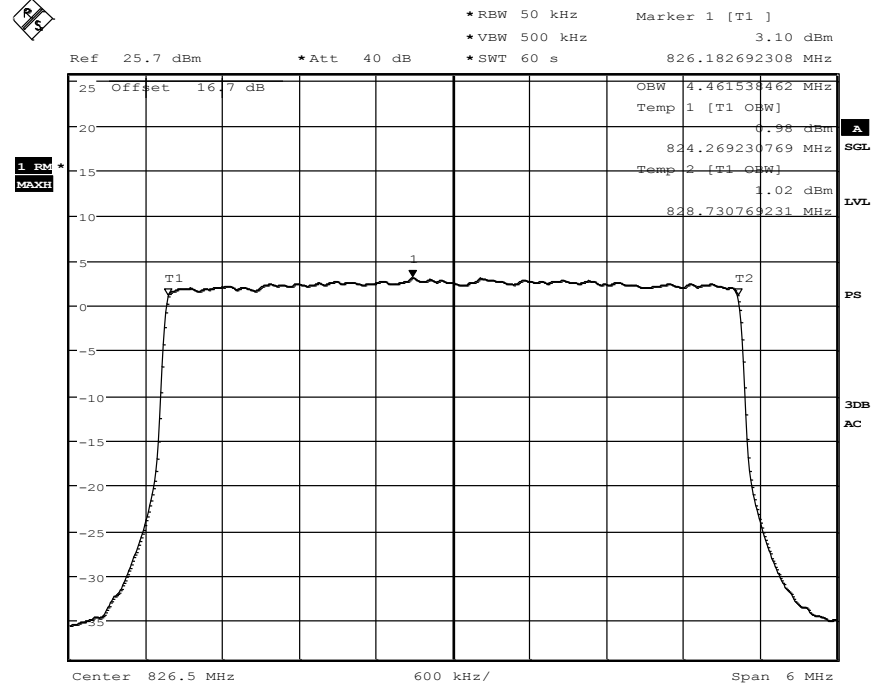
Diagram 35.505 Channel 20525 (836.5MHz) Value = 2.6858MHz
QPSK-Modulation



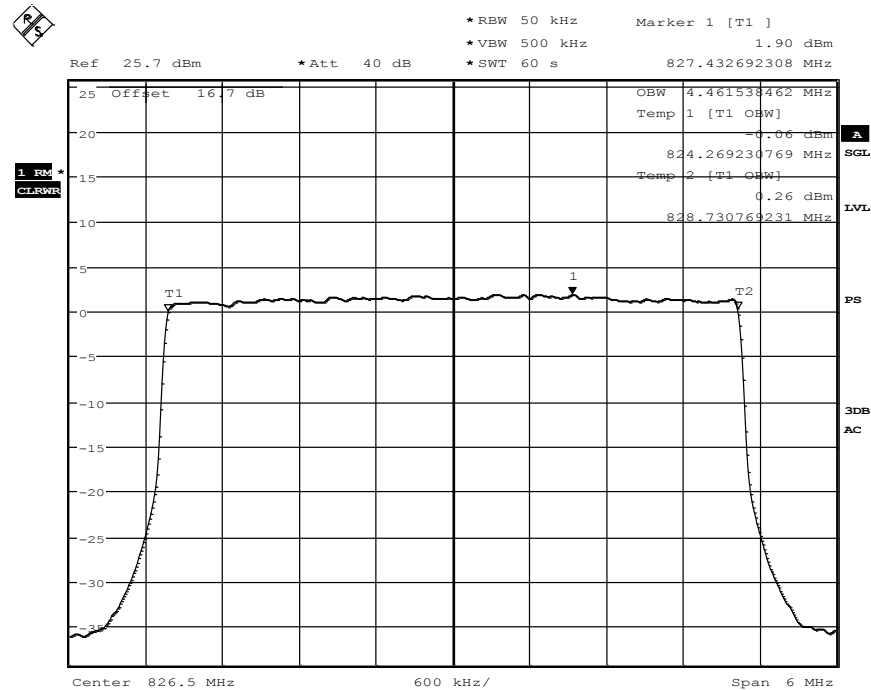
Date: 7.JUL.2014 16:11:12

Diagram 34.517 Channel 20525 (836.5MHz) Value = 2.6858MHz
16-QAM-Modulation

1.5.1.3. BW = 5MHz



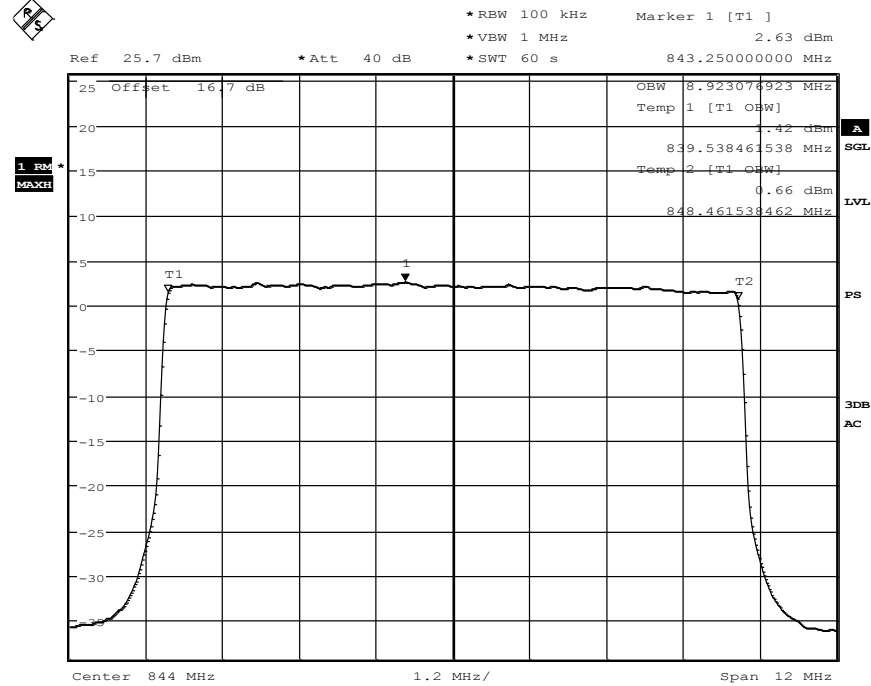
Date: 7.JUL.2014 16:08:41

Diagram 34.507 Channel 20425 (826.5MHz) Value = 4.4615MHz
QPSK-Modulation

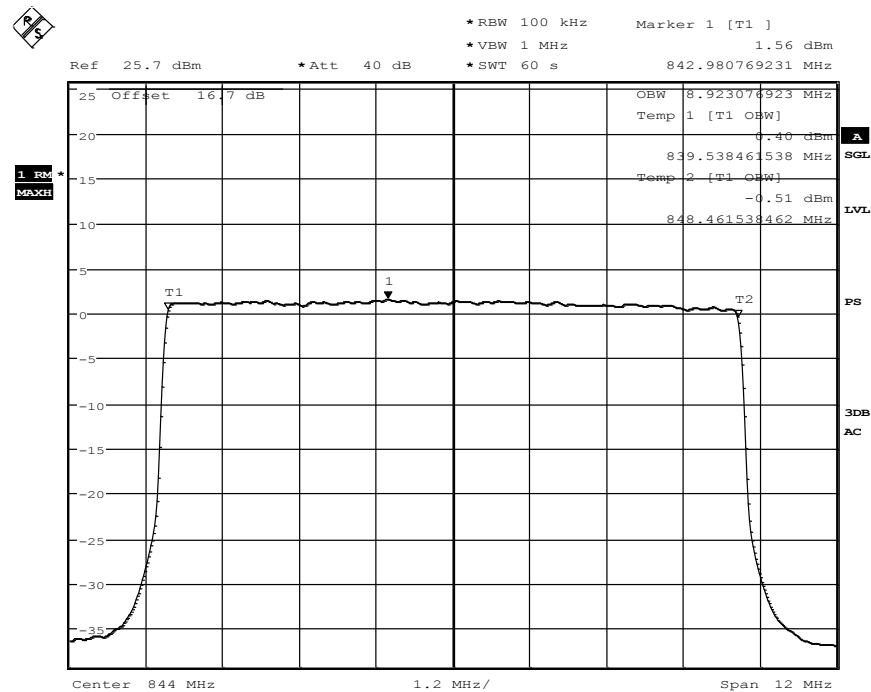
Date: 7.JUL.2014 16:06:50

Diagram 34.519 Channel 20425 (826.5MHz) Value = 4.4615MHz
16-QAM-Modulation

1.5.1.4. BW = 10MHz



Date: 7.JUL.2014 16:02:22

Diagram 34.512 Channel 20600 (844.0MHz) Value = 8.9230MHz
QPSK-Modulation

Date: 7.JUL.2014 16:00:23

Diagram 34.524 Channel 20425 (844.0MHz) Value = 8.9230MHz
16-QAM-Modulation

1.6. Spurious emissions conducted (LTE Band 5)

Diagram No.: 36.50a_RSE_C_Ch20407_BW1_4_QPSK

Common Information

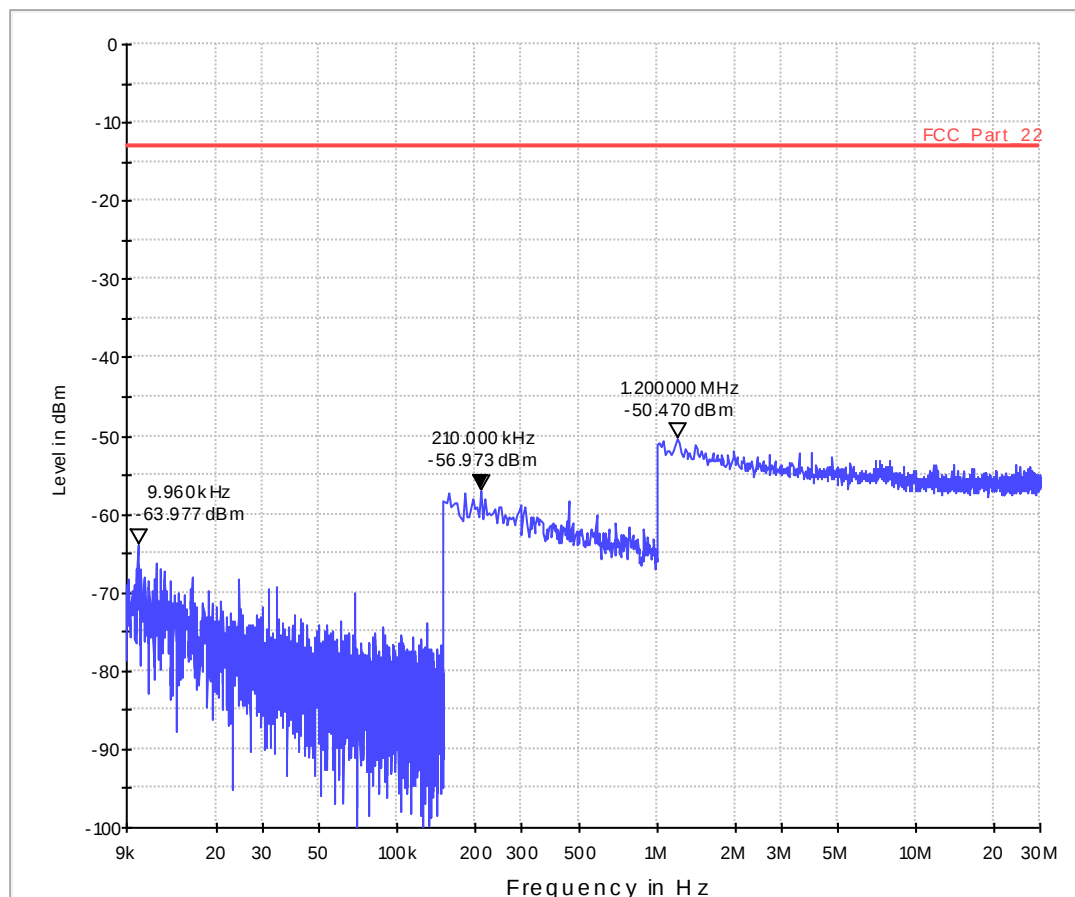
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (QPSK), Channel 20407 (824,7MHz), 1,4BW, 1RB
Channel Bandwidth	1,4BW
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.50b_RSE_C_Ch20407_BW1_4_QAM

Common Information

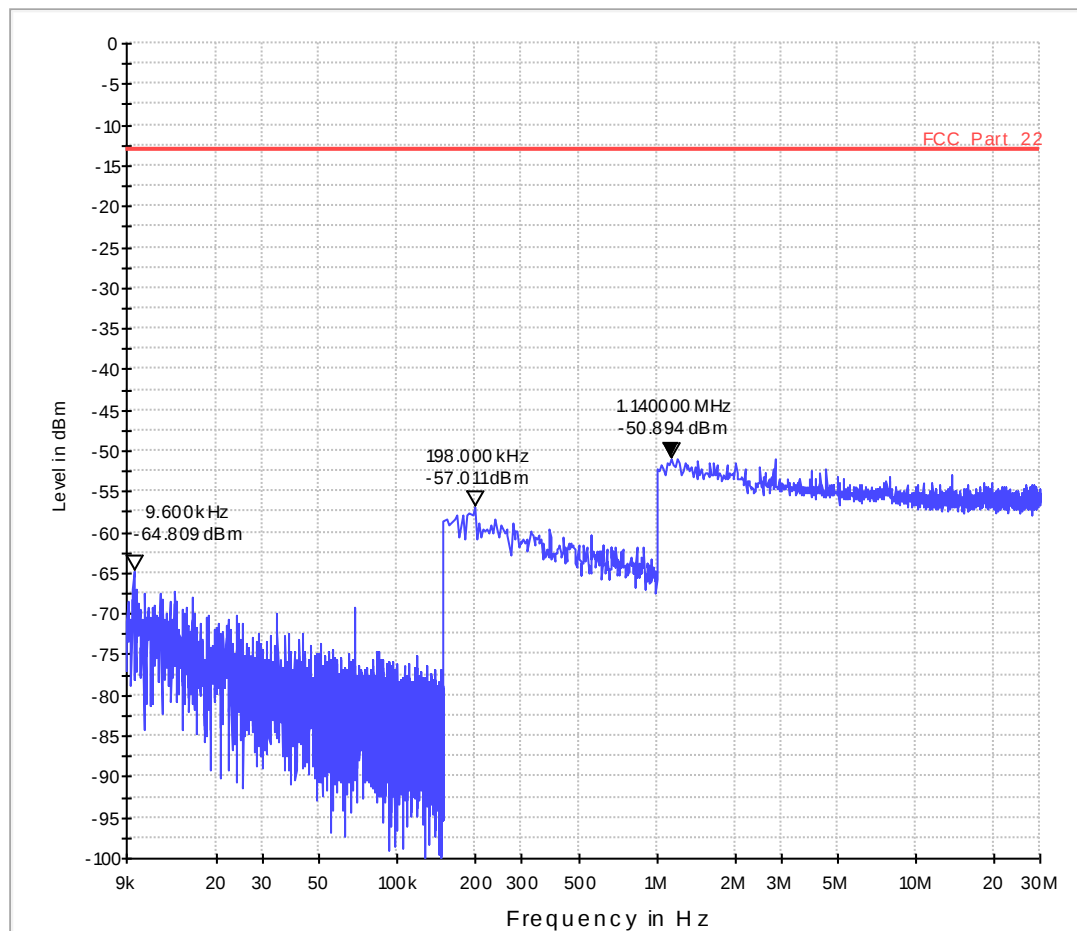
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (16QAM), Channel 20407 (824,7MHz), 1,4 BW, 1RB
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.51a_RSE_C_Ch20407_BW1_4_QPSK**Common Information**

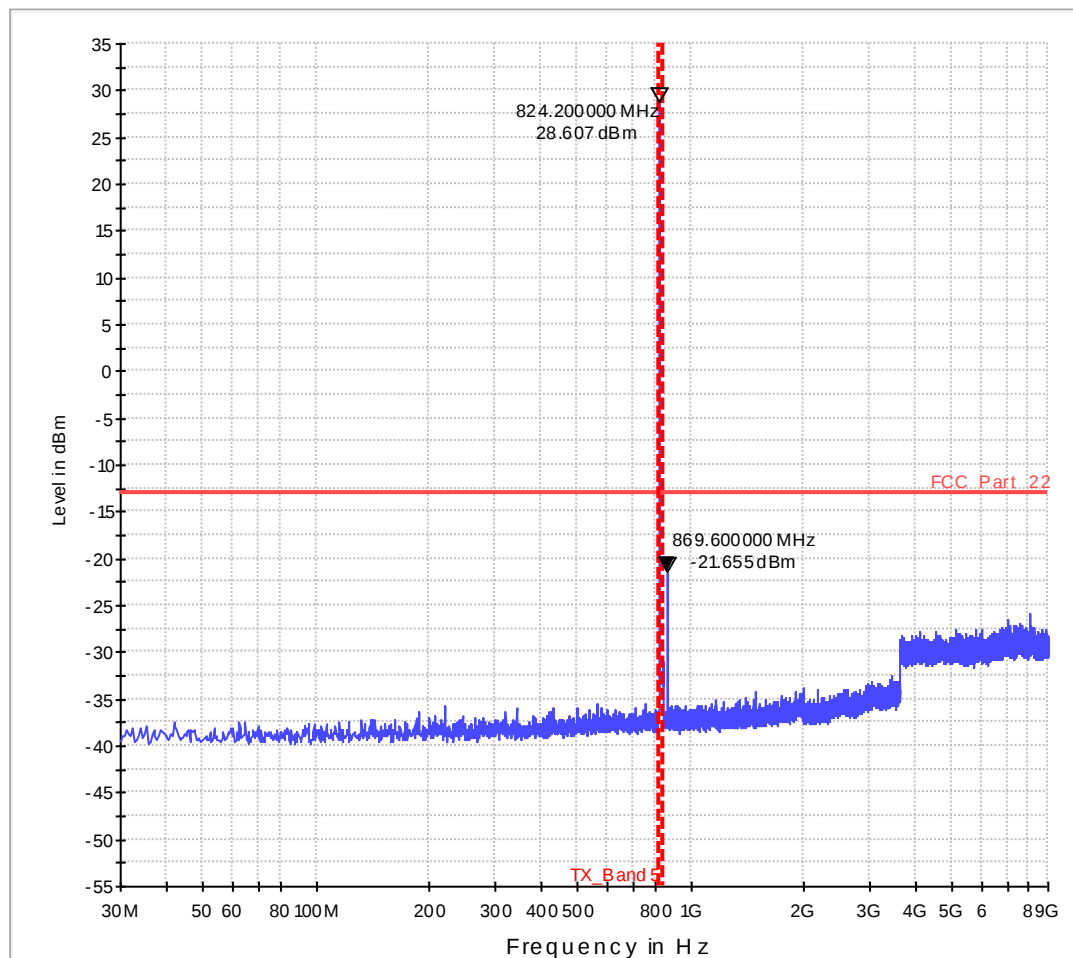
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20407(824,7MHz), 1,4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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	Preamplifier
30 MHz - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

Diagram No.: 36.51b_RSE_C_Ch20407_BW1_4_QAM**Common Information**

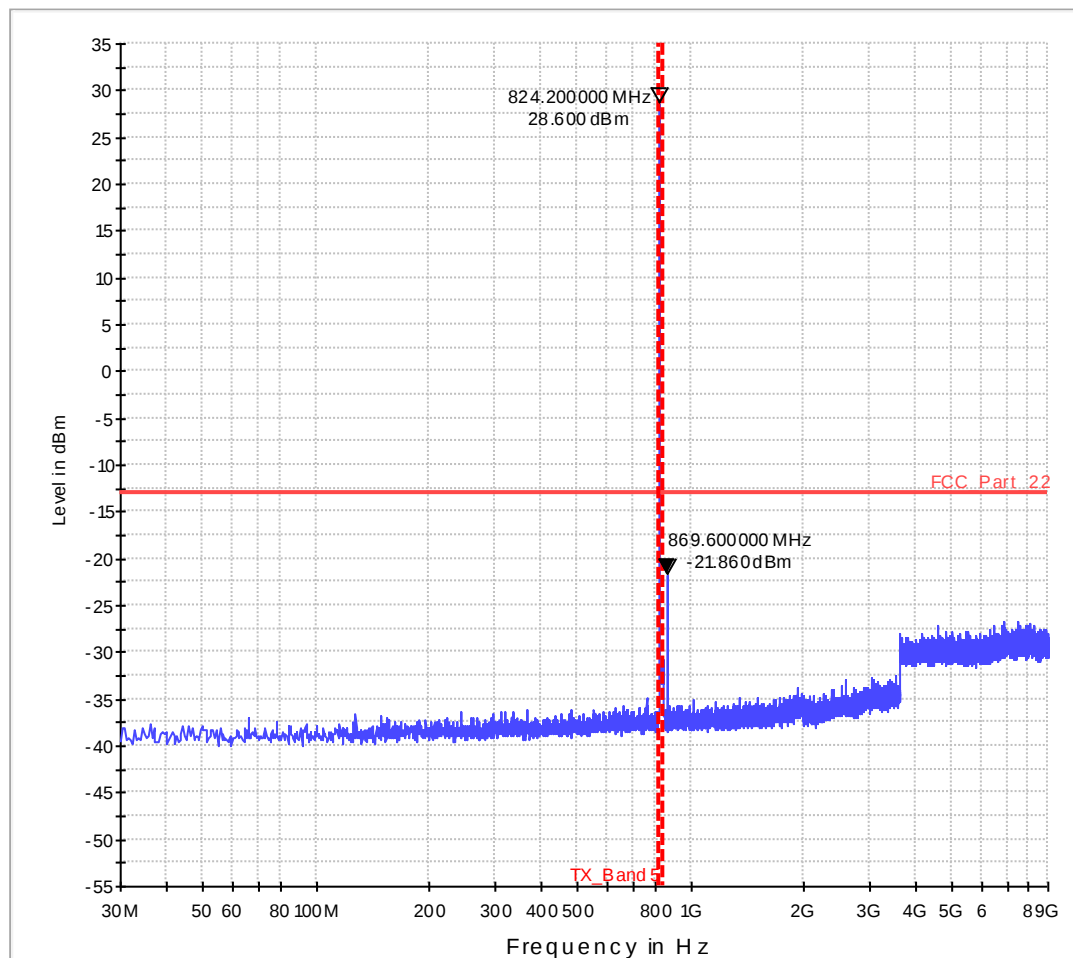
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (16QAM), Channel 20407(824,7MHz), 1,4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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 - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

Diagram No.: 36.52a_RSE_C_Ch20525_BW5_QPSK

Common Information

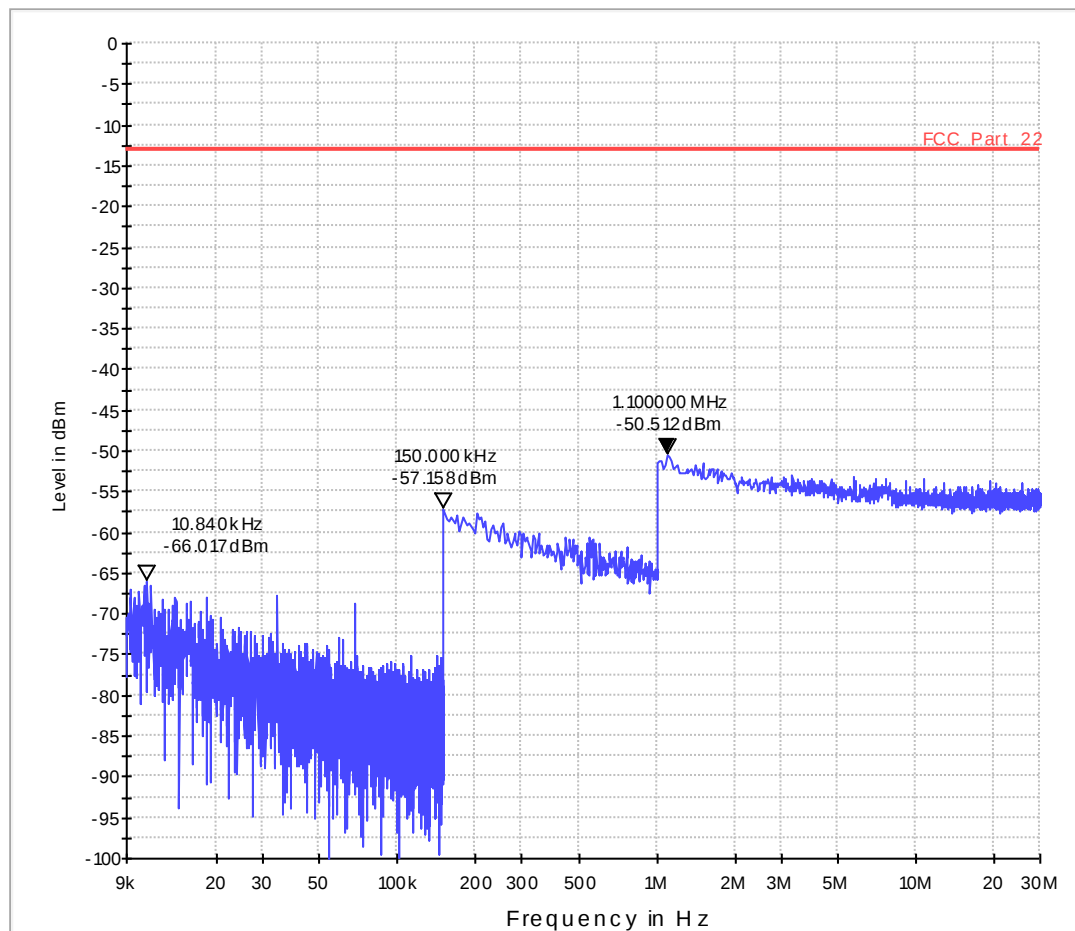
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (QPSK), Channel 20525 (836,5MHz), 5 BW, 10RB
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.52b_RSE_C_Ch20525_BW5_QAM

Common Information

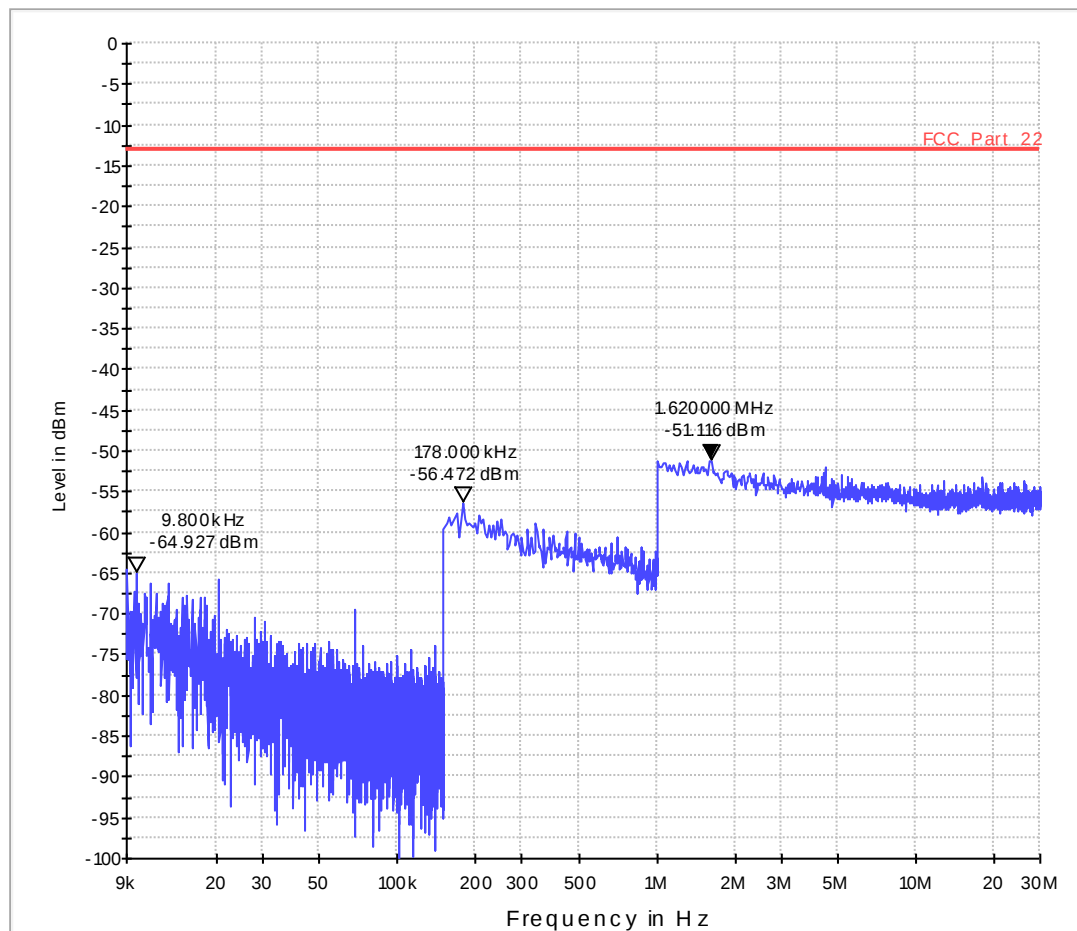
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (16QAM), Channel 20525 (836,5MHz), 5 BW, 8RB
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.53a_RSE_C_Ch20525_BW5_QPSK

Common Information

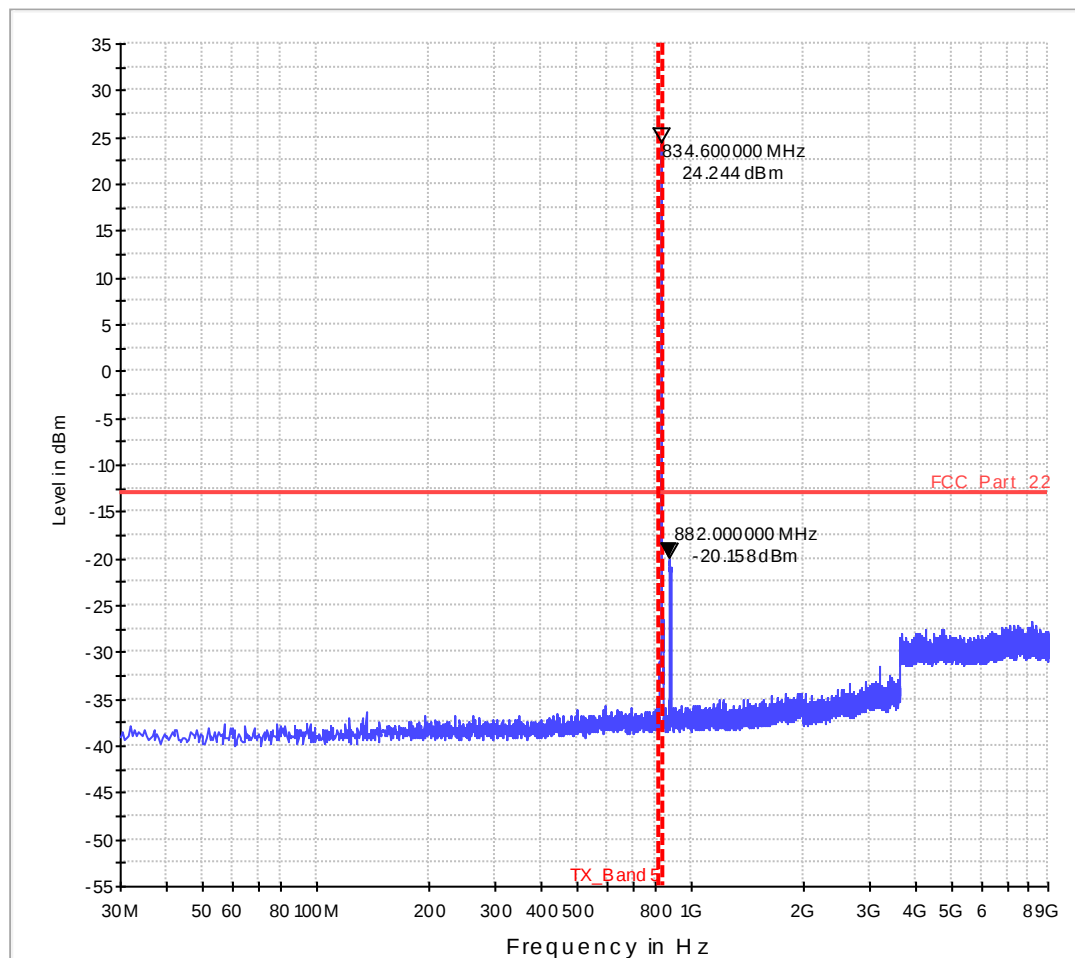
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20525(836,5MHz), 5 BW, 10RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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 - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

Diagram No.: 36.53b_RSE_C_Ch20525_BW5_QAM**Common Information**

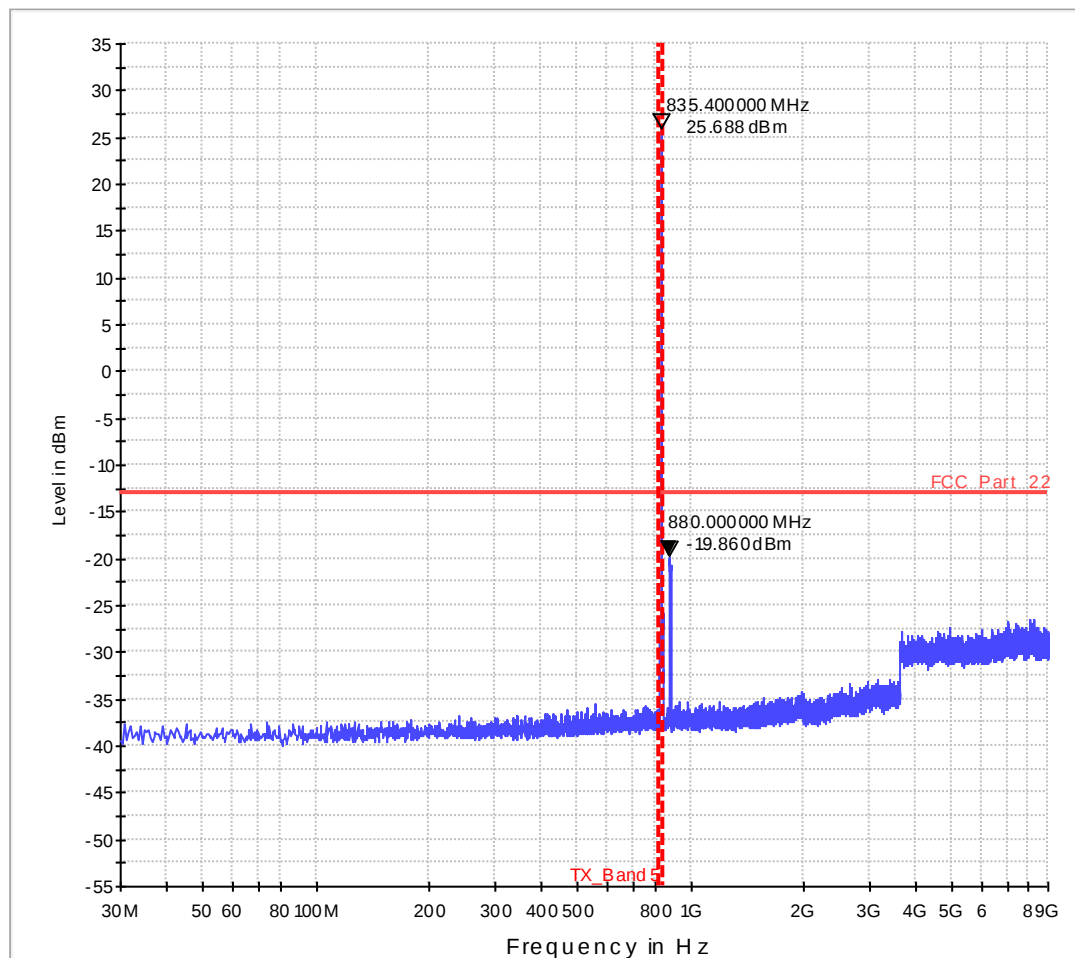
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (16QAM), Channel 20525(836,5MHz), 5 BW, 8RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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 - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

Diagram No.: 36.54a_RSE_C_Ch20600_BW10_QPSK**Common Information**

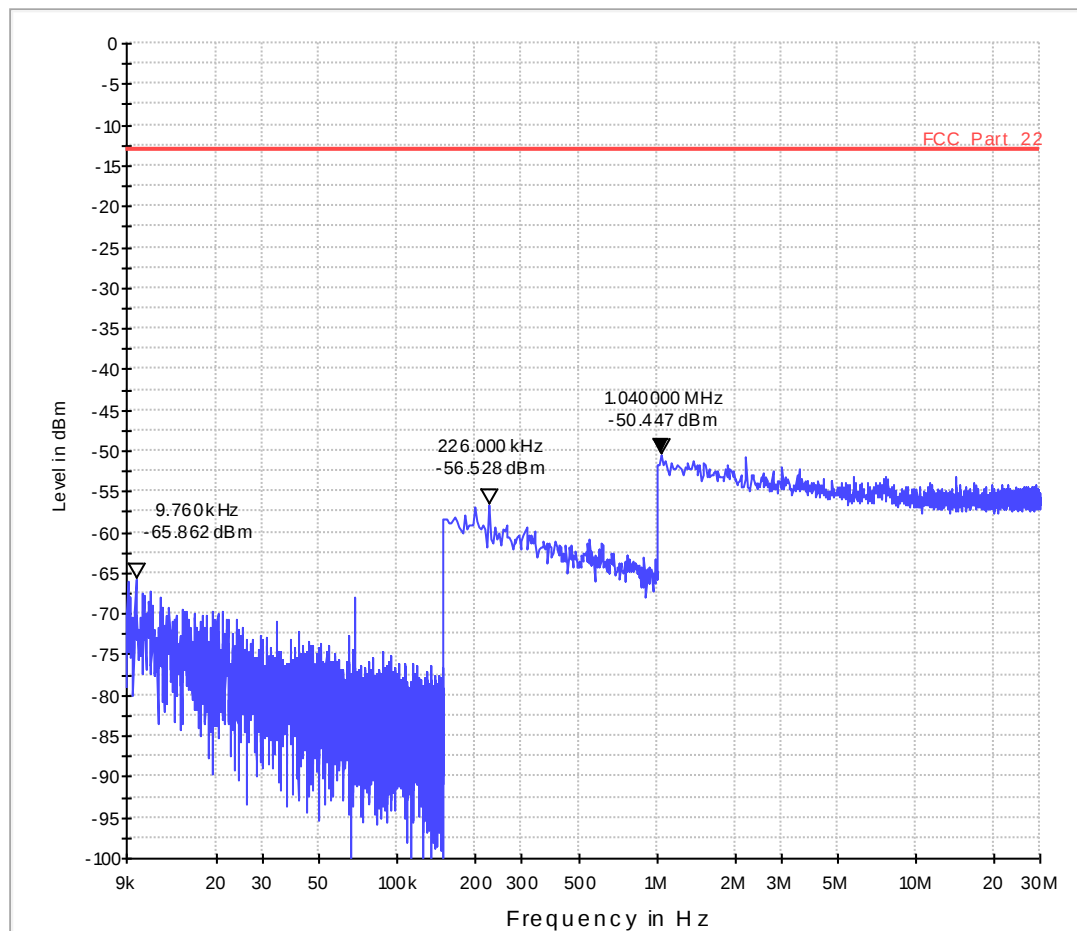
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (QPSK), Channel 20600(844MHz), 10 BW, 50RB
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.54b_RSE_C_Ch20600_BW10_QAM**Common Information**

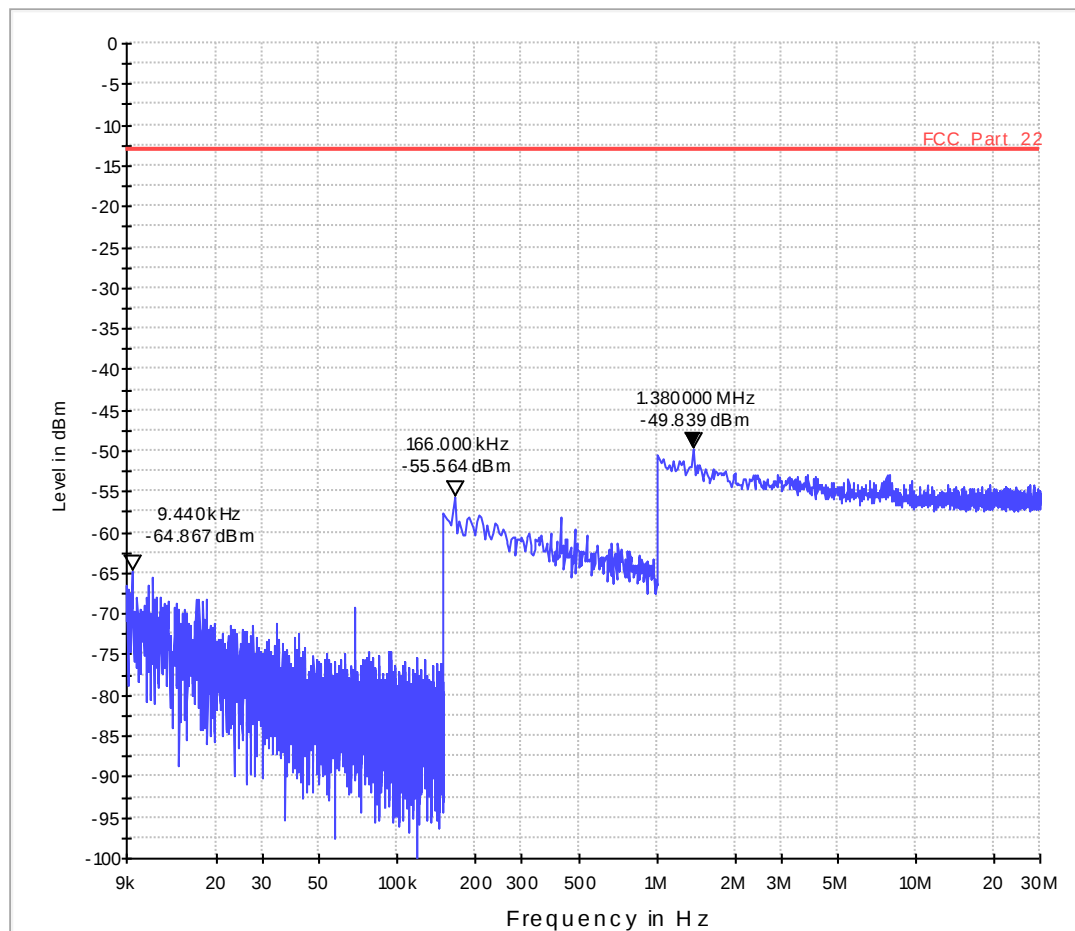
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Operation mode:	TX - LTE V (16QAM), Channel 20600(844MHz), 10 BW, 50RB
Operator	dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_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	0.005 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.005 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.: 36.55a_RSE_C_Ch20600_BW10_QPSK**Common Information**

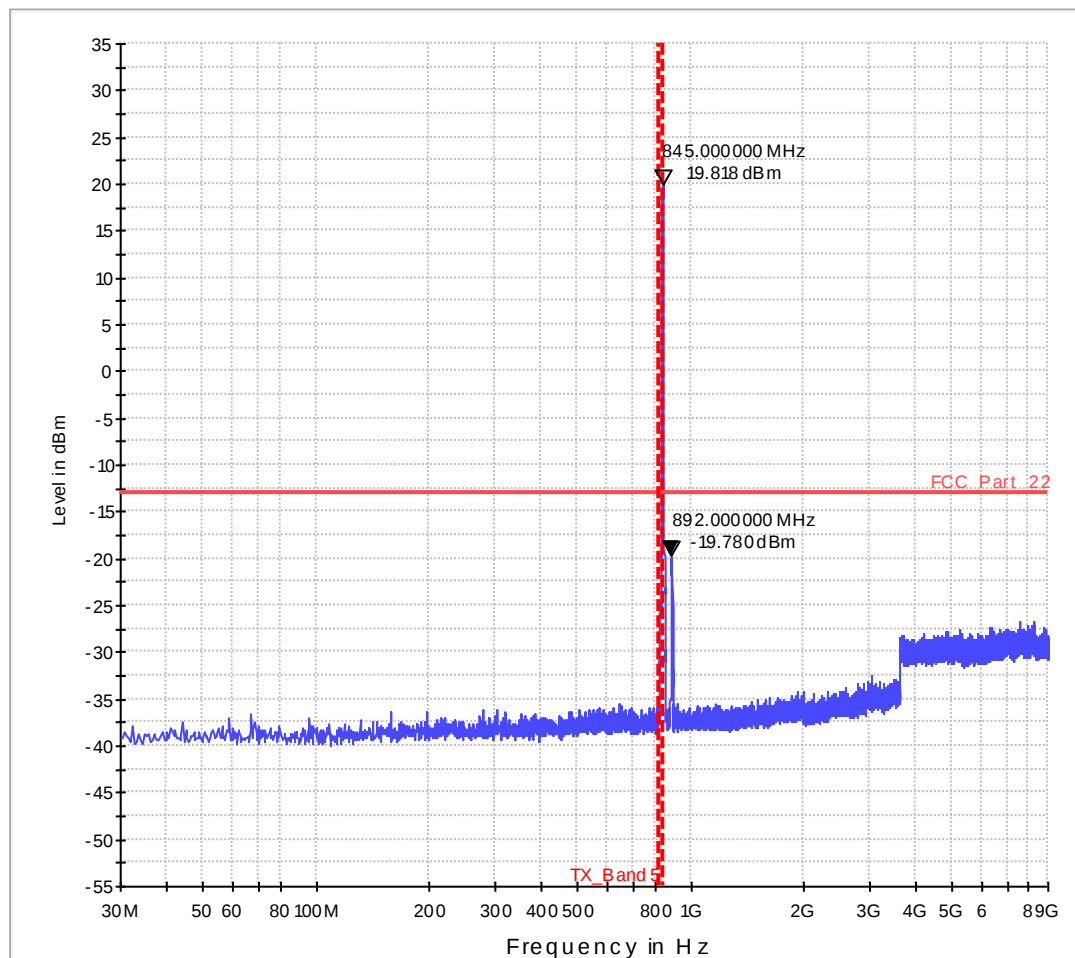
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20600(844MHz), 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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 - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

Diagram No.: 36.55b_RSE_C_Ch20600_BW10_QAM**Common Information**

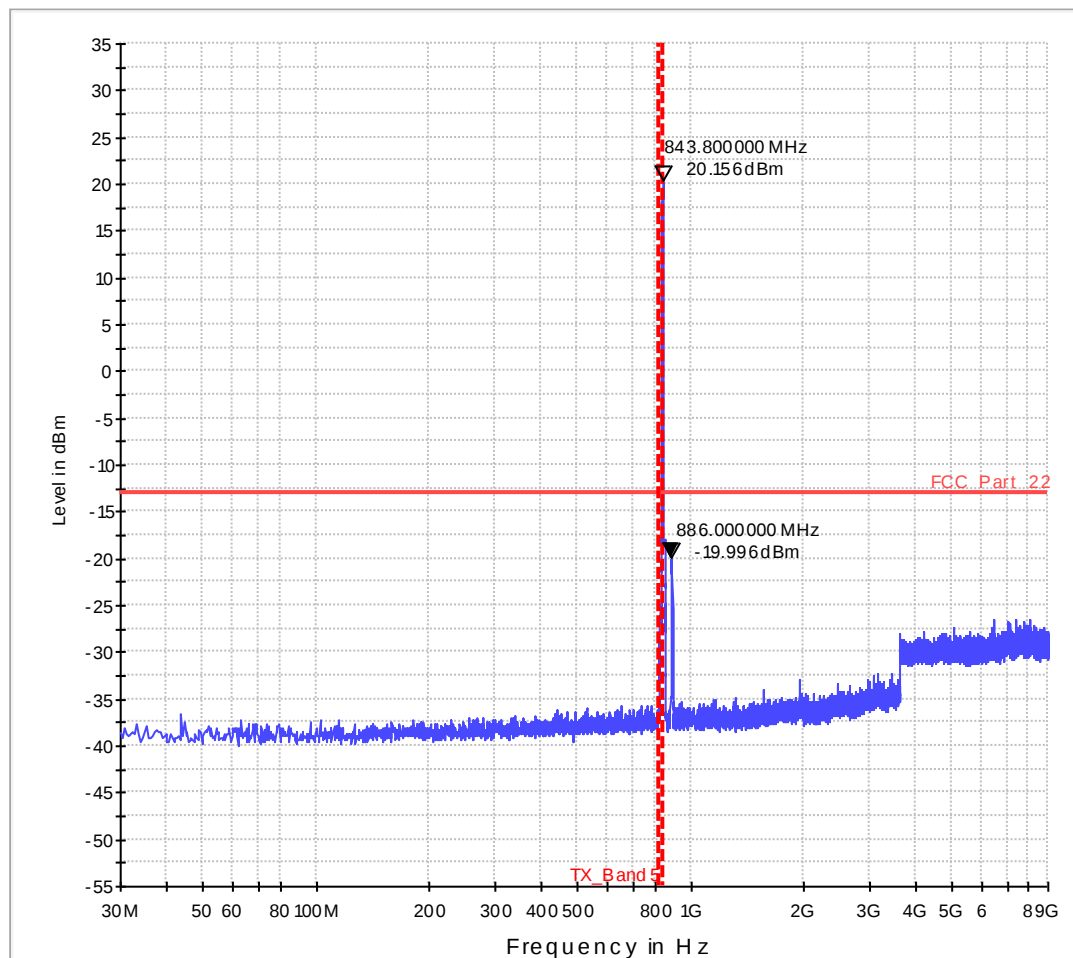
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	dpa
Operating mode:	TX - LTE V (16QAM), Channel 20600(844MHz), 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_LTE_Bd5_Scan2_30MHz_9GHz [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 - 823 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
823 MHz - 850 MHz	400 kHz	PK+	1 MHz	0.007 s	0 dB
850 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.007 s	0 dB

1.7. Conducted emissions – band - edge (LTE Band 5)

1.7.1. Band - edge low

Diagram No. 37.510a

Common Information

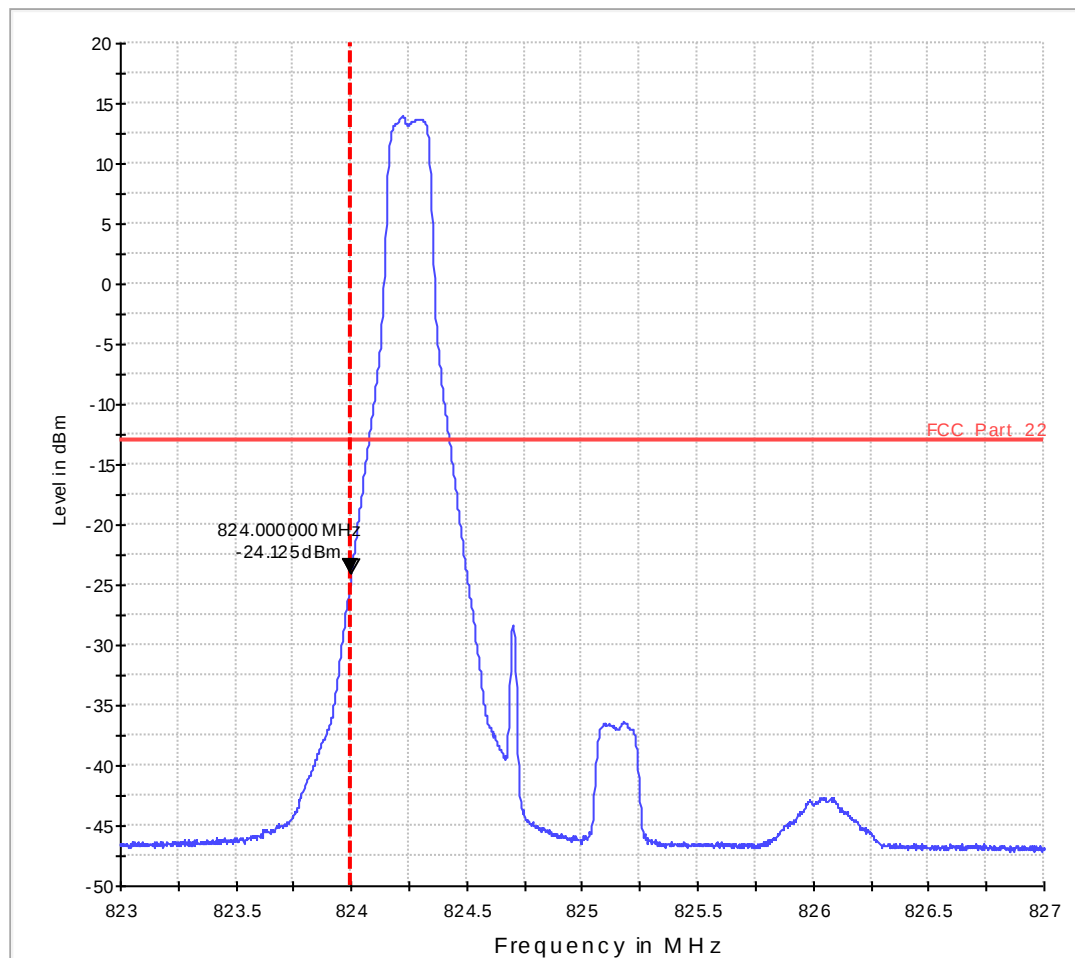
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20407, 1.4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV



Scan Setup: Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV
[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
823 MHz - 827 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.510b**Common Information**

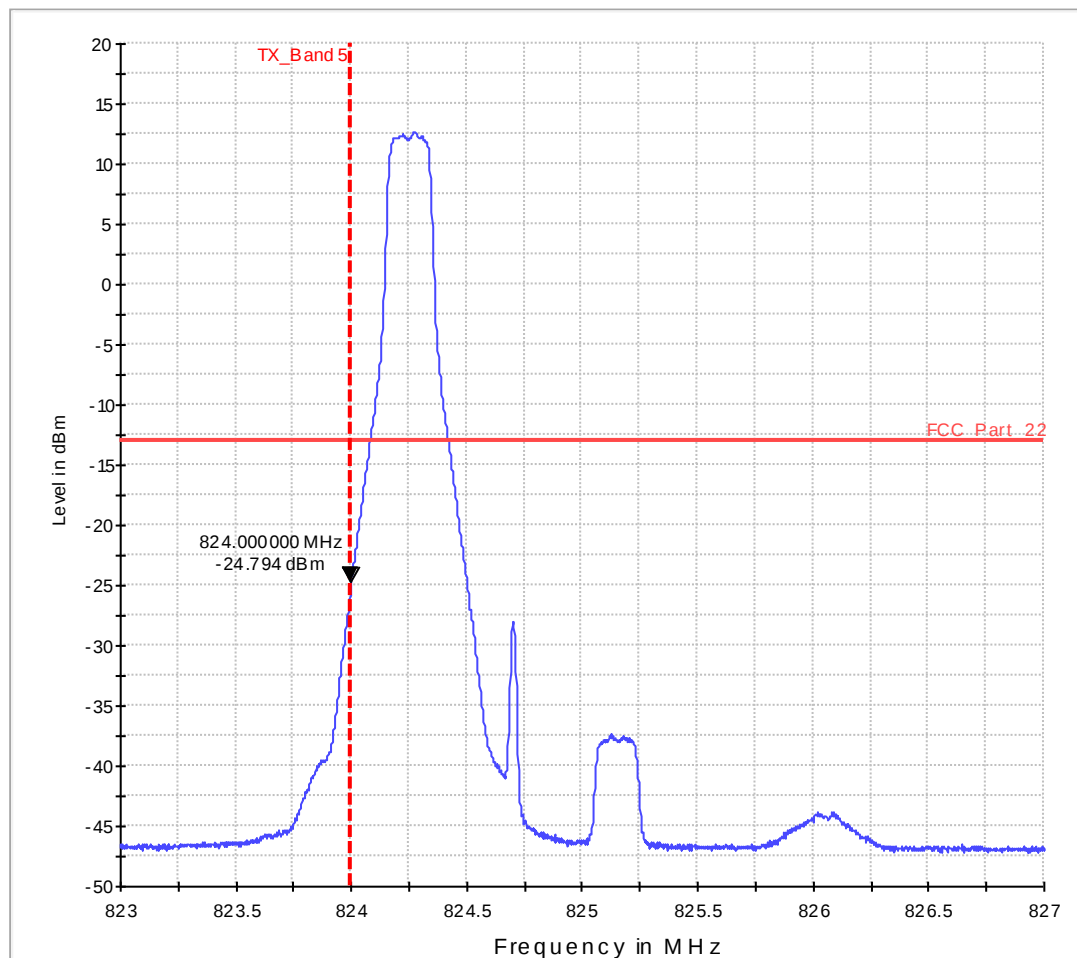
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20407, 1.4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV



Scan Setup: Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV
[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
823 MHz - 827 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.511a**Common Information**

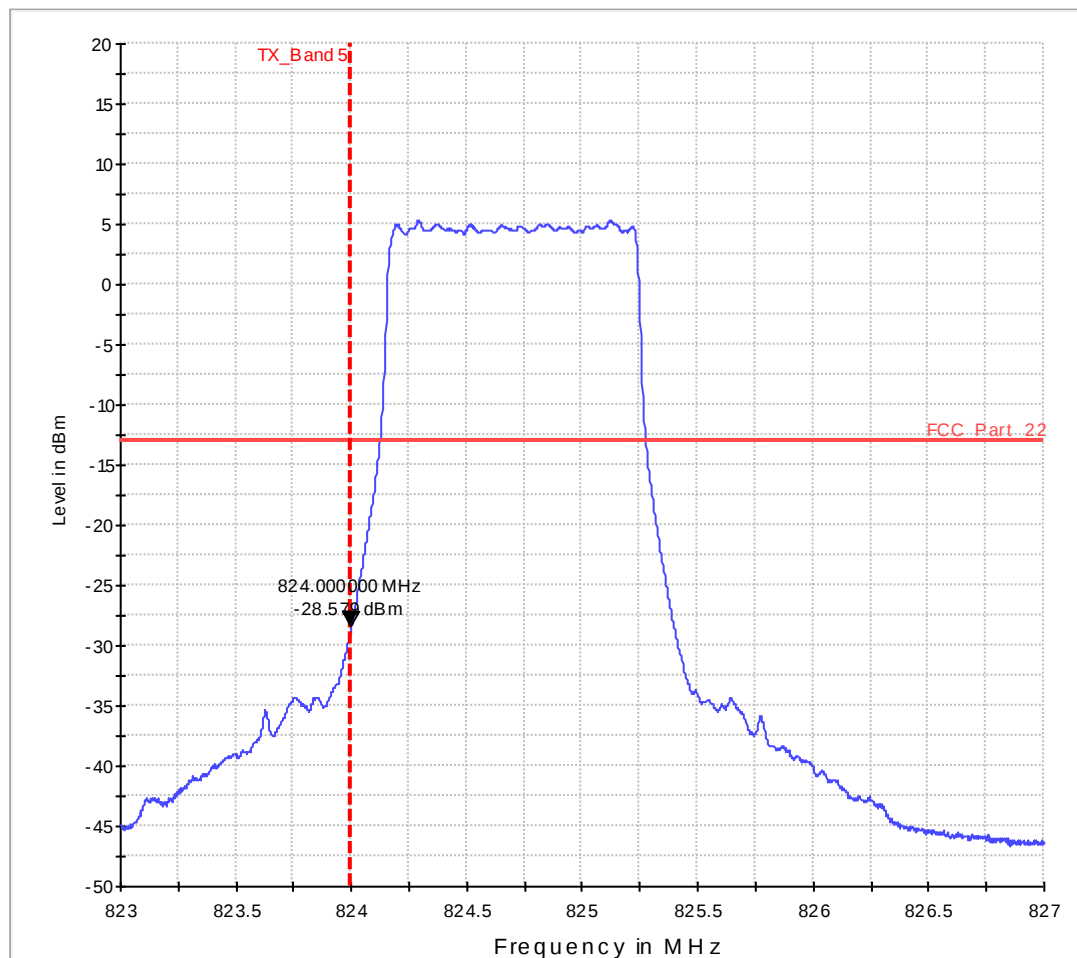
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20407, 1.4 BW, 6RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV



Scan Setup: Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV
[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
823 MHz - 827 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.511b

Common Information

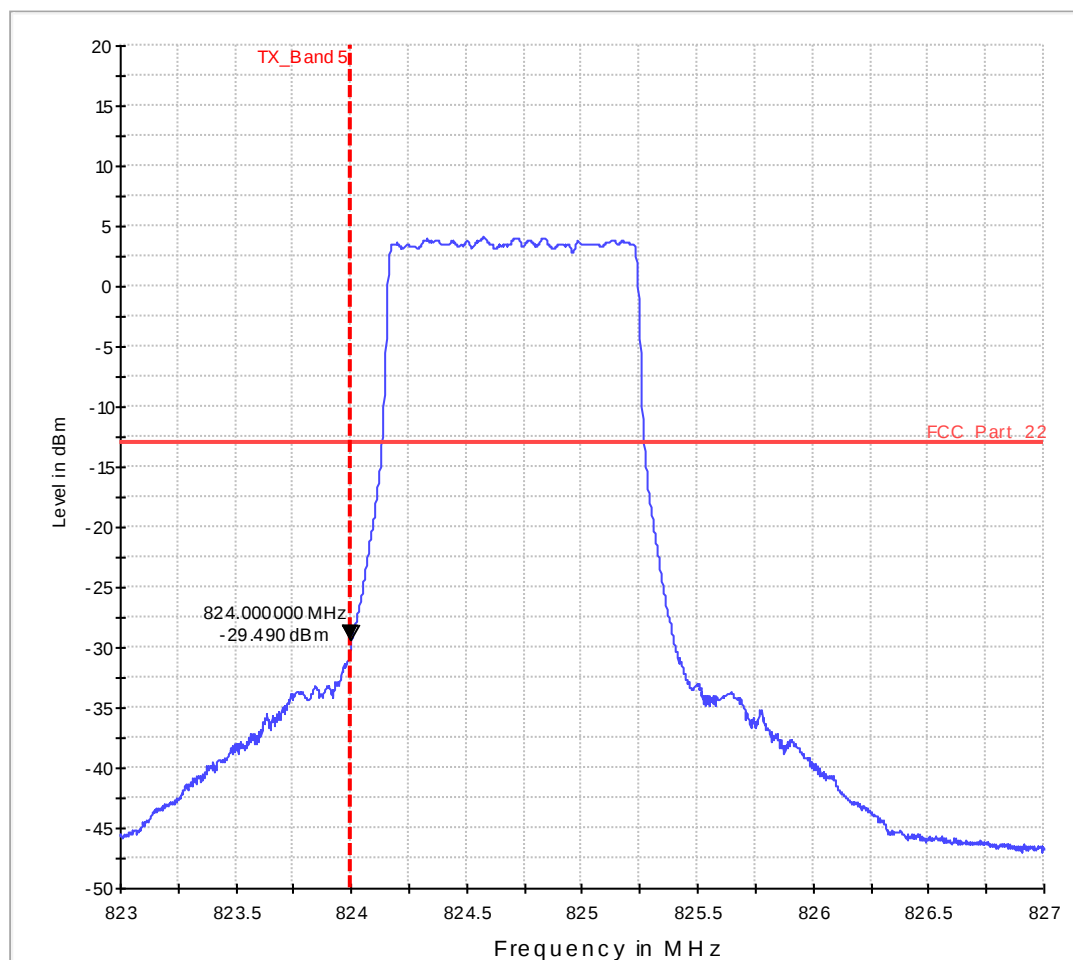
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22, IC RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20407, 1.4 BW, 6RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV



Scan Setup: Fula2_005b_FCC_22_BE_low_Channel_20407_BW_1_5MHz_AV
[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
823 MHz - 827 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.512a

Common Information

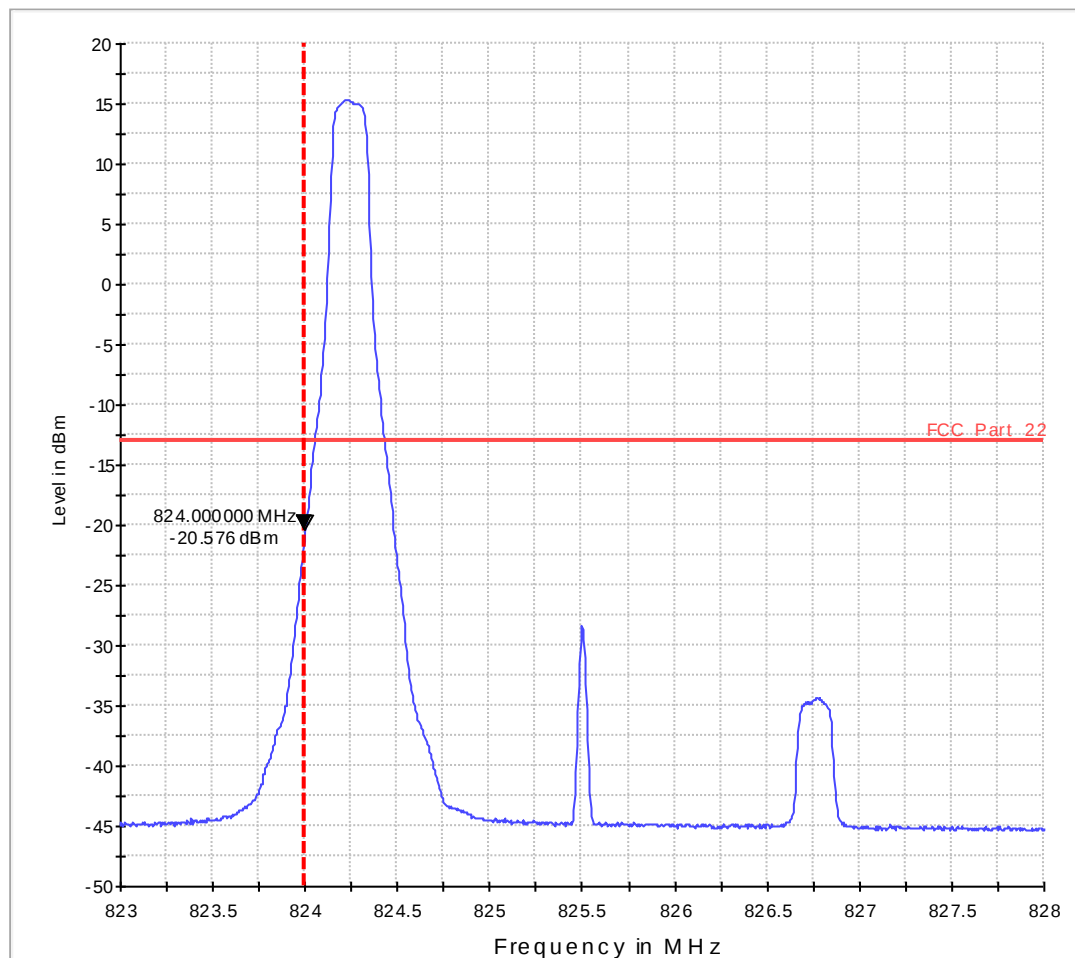
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22, IC RSS-132
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20415, 3 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV



Scan Setup: Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV [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
823 MHz - 828 MHz	5 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.512b

Common Information

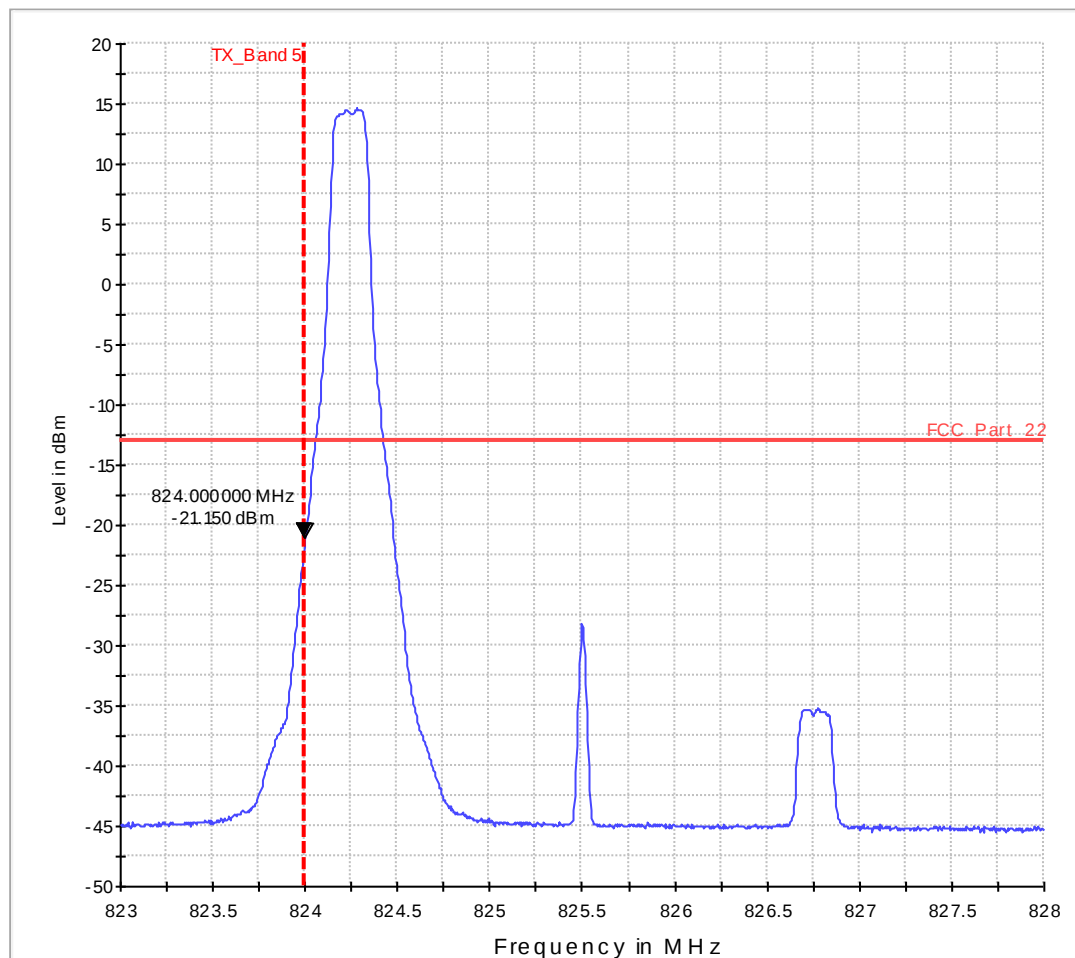
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22, IC RSS-132
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20415, 3 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV



Scan Setup: Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV [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
823 MHz - 828 MHz	5 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.513a

Common Information

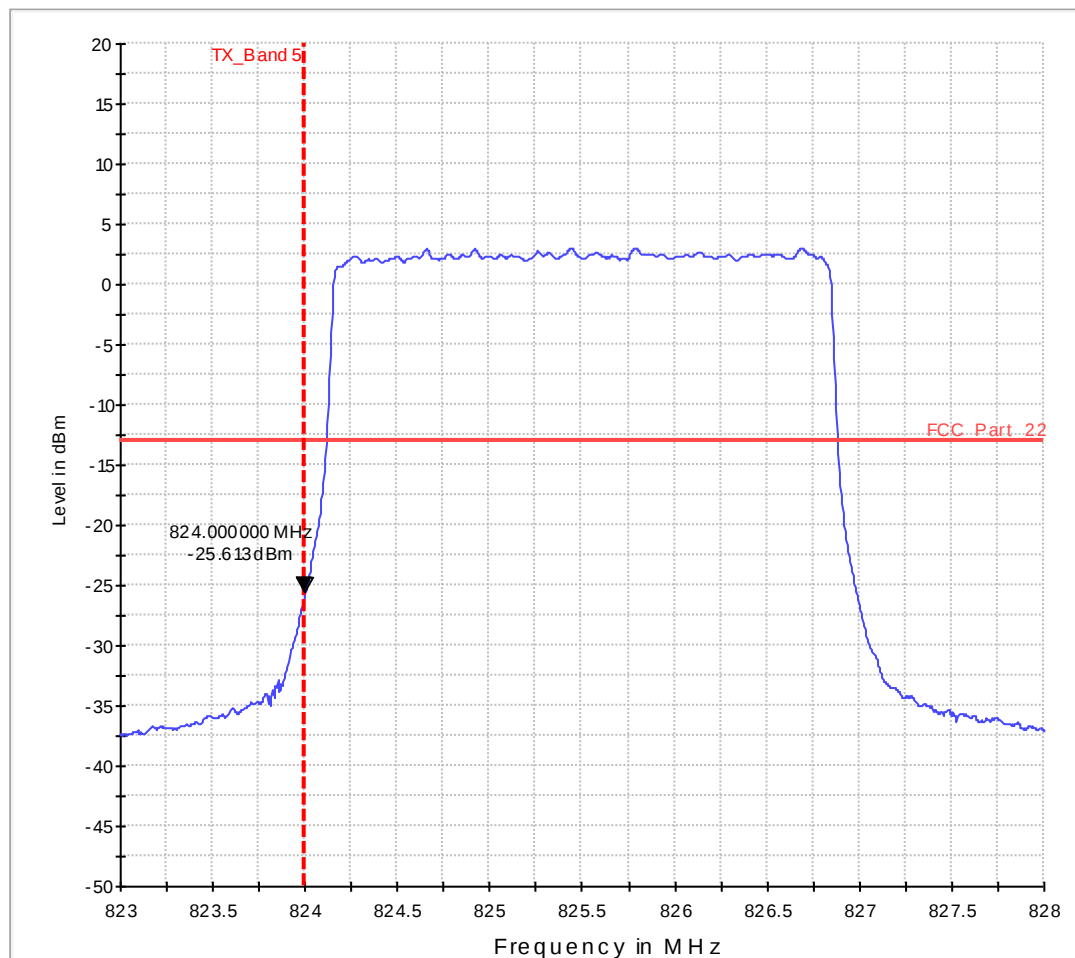
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22, IC RSS-132
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20415, 3 BW, 15RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV



Scan Setup: Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV [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
823 MHz - 828 MHz	5 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.513b**Common Information**

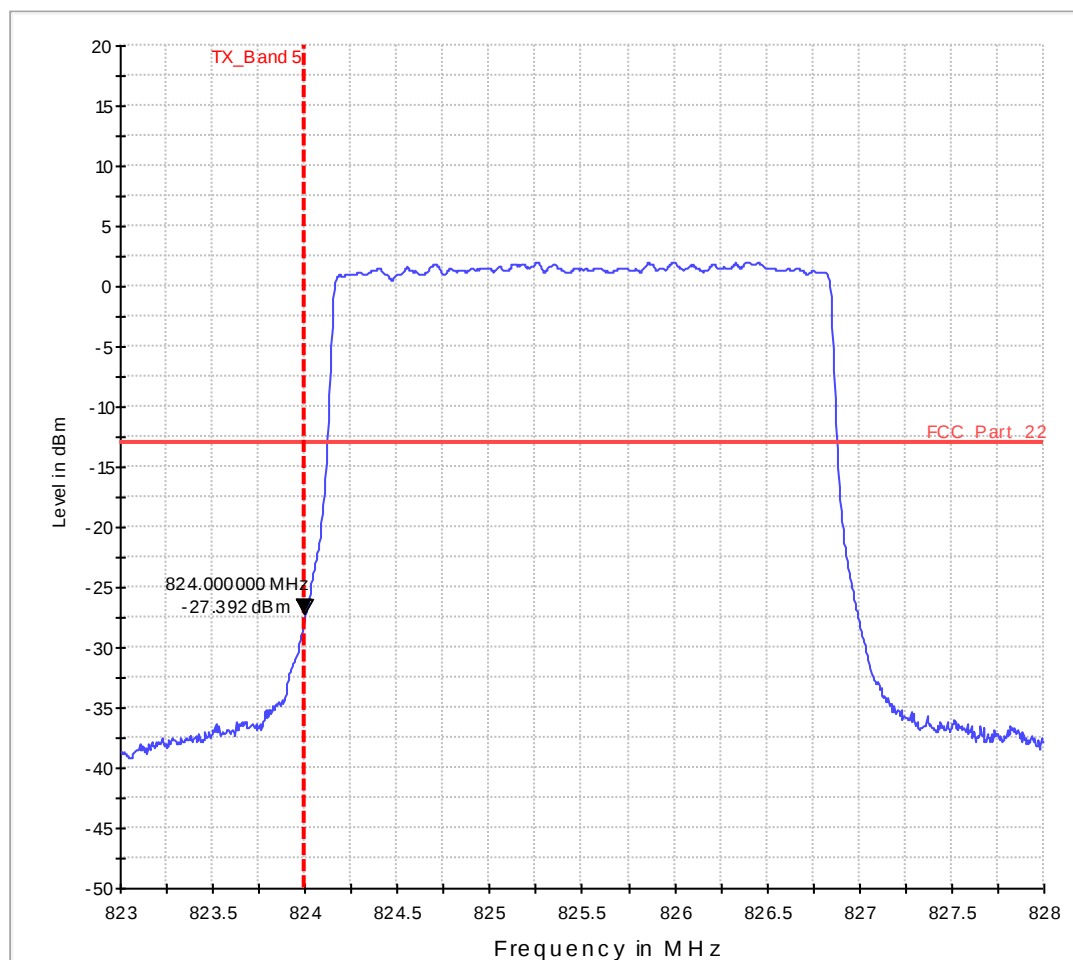
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22, IC RSS-132
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20415, 3 BW, 15RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV



Scan Setup: Fula2_006b_FCC_22_BE_low_Channel_20415_BW_3MHz_AV [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
823 MHz - 828 MHz	5 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.514a**Common Information**

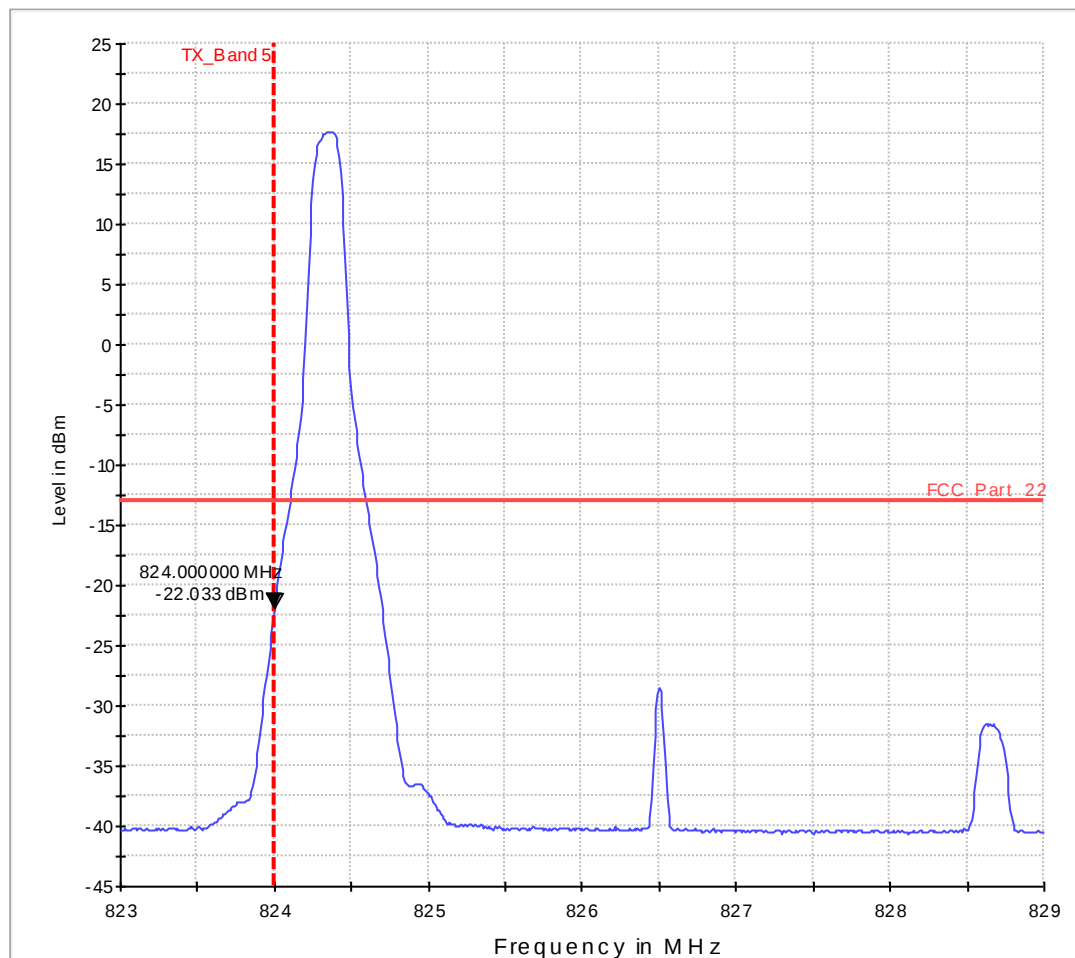
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (Qpsk), Channel 20425, 5 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV



Scan Setup: Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV [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
823 MHz - 829 MHz	10 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.514b**Common Information**

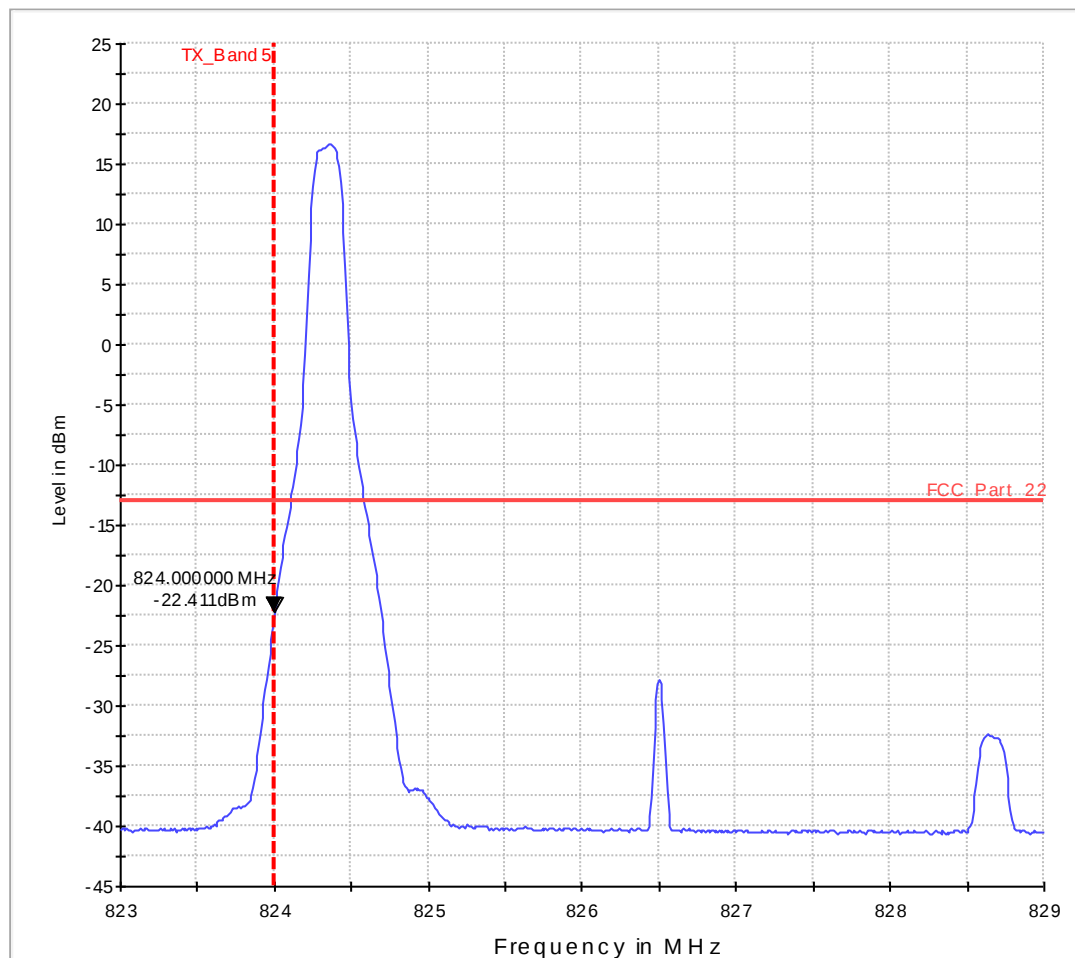
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20425, 5 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV



Scan Setup: Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV [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
823 MHz - 829 MHz	10 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.515a

Common Information

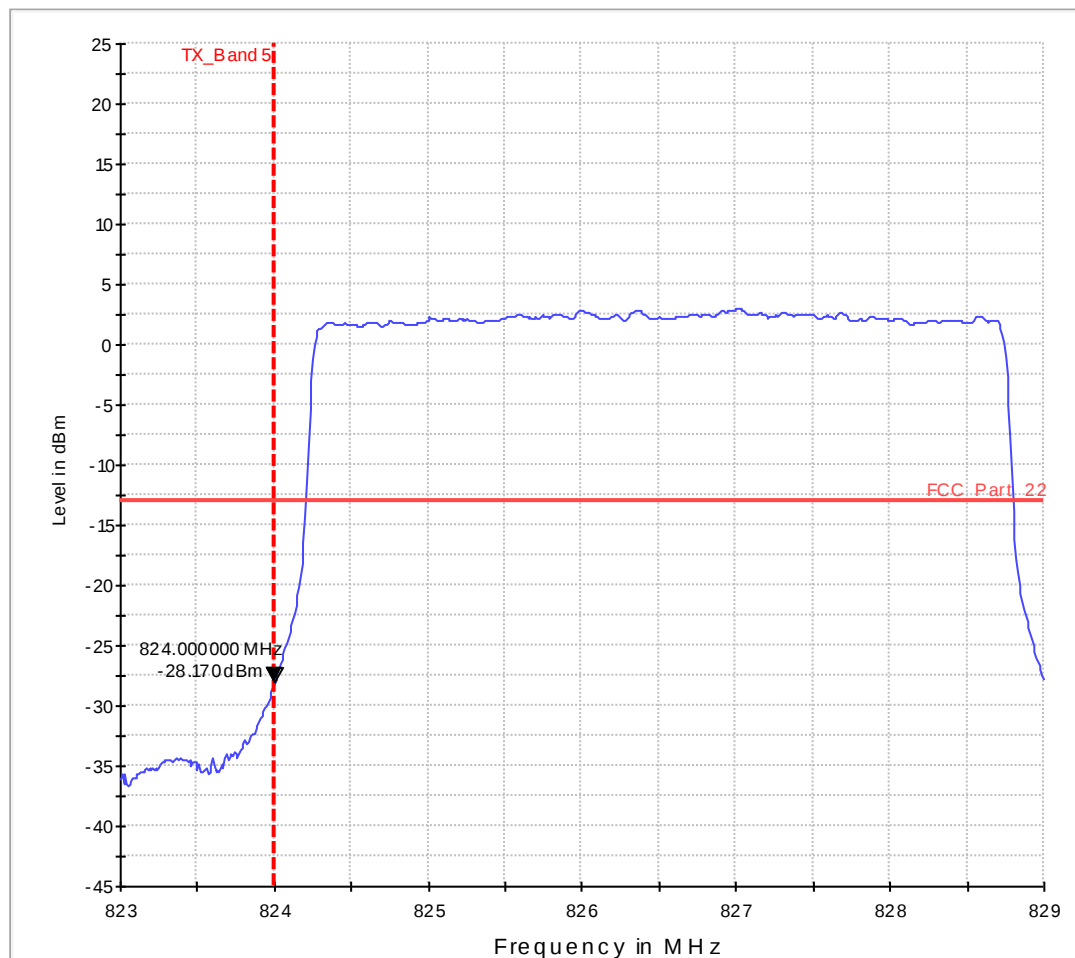
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20425, 5 BW, 25RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV



Scan Setup: Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV [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
823 MHz - 829 MHz	10 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.515b**Common Information**

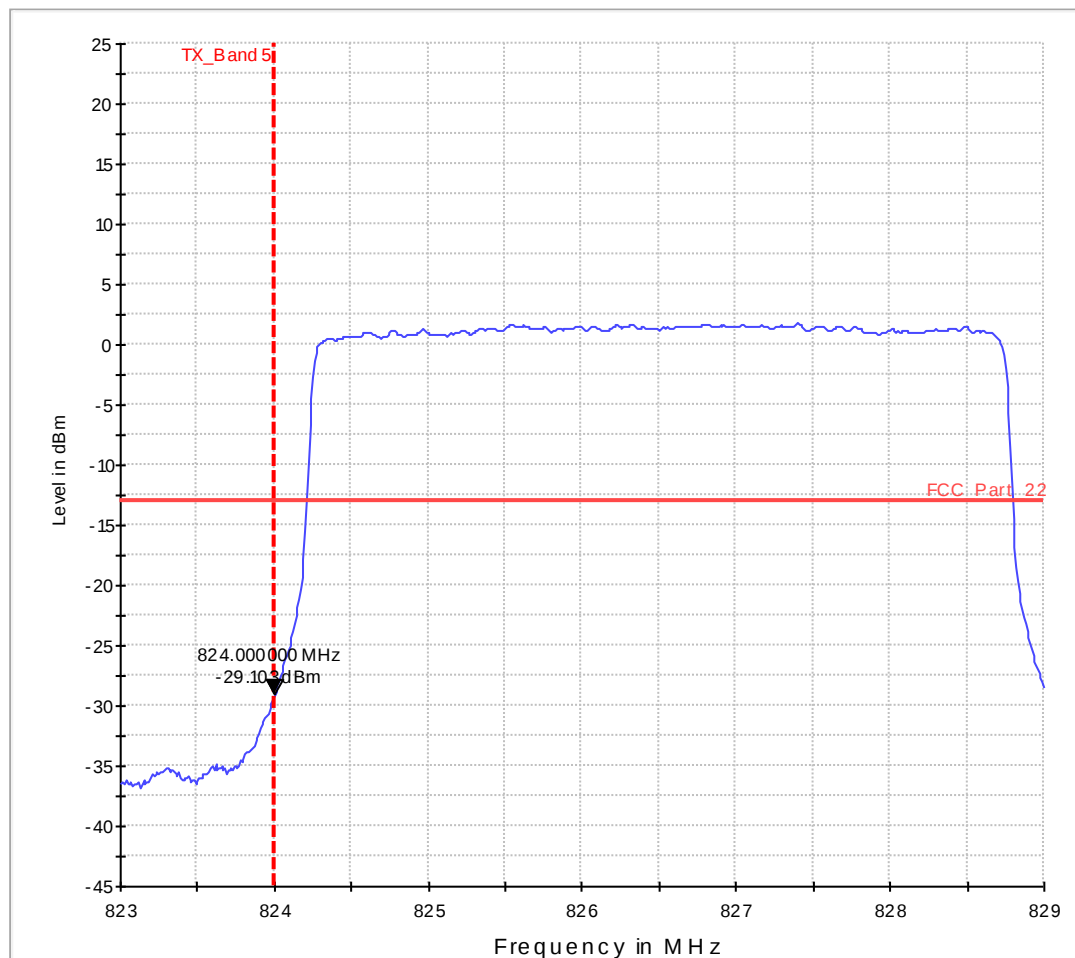
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20425, 5 BW, 25RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV



Scan Setup: Fula2_007b_FCC_22_BE_low_Channel_20425_BW_5MHz_AV [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
823 MHz - 829 MHz	10 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.516a**Common Information**

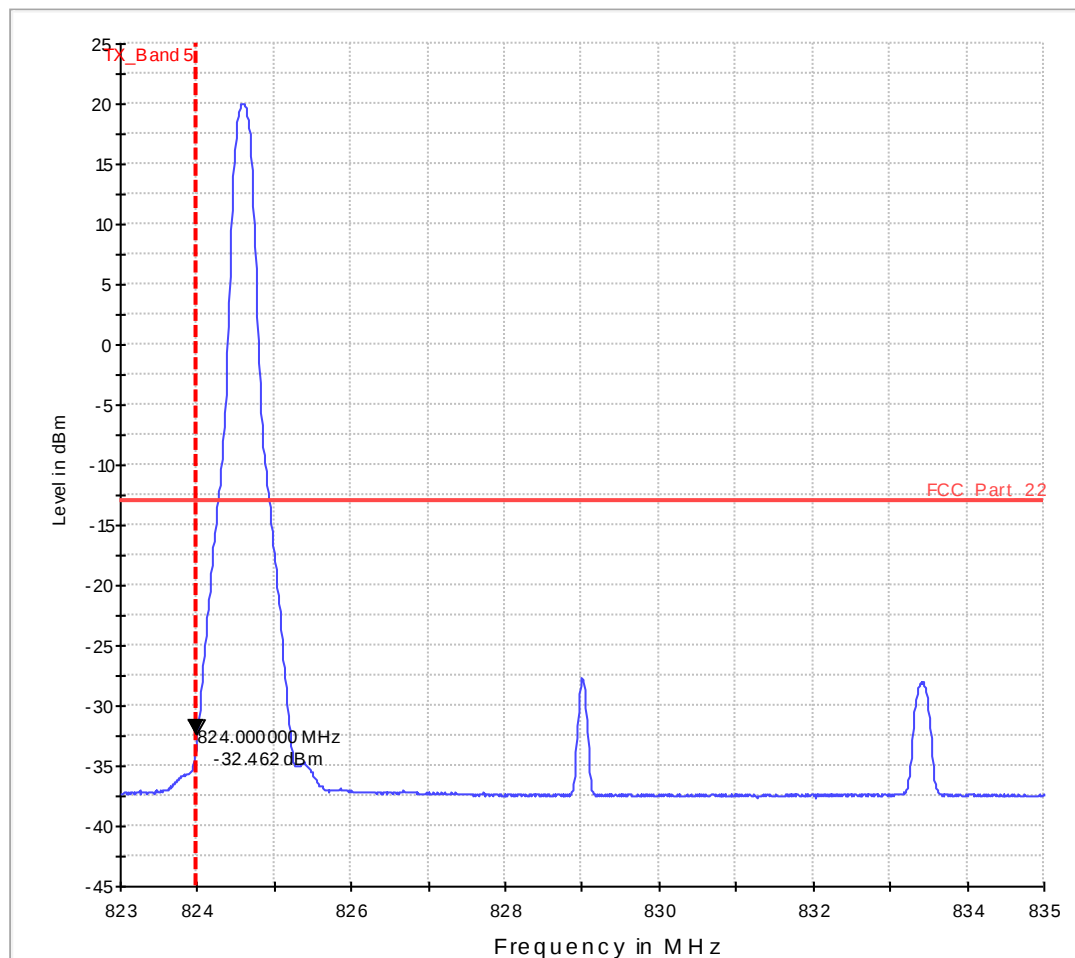
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20450, 10 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV



Scan Setup: Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV
[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
823 MHz - 835 MHz	10 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.516b**Common Information**

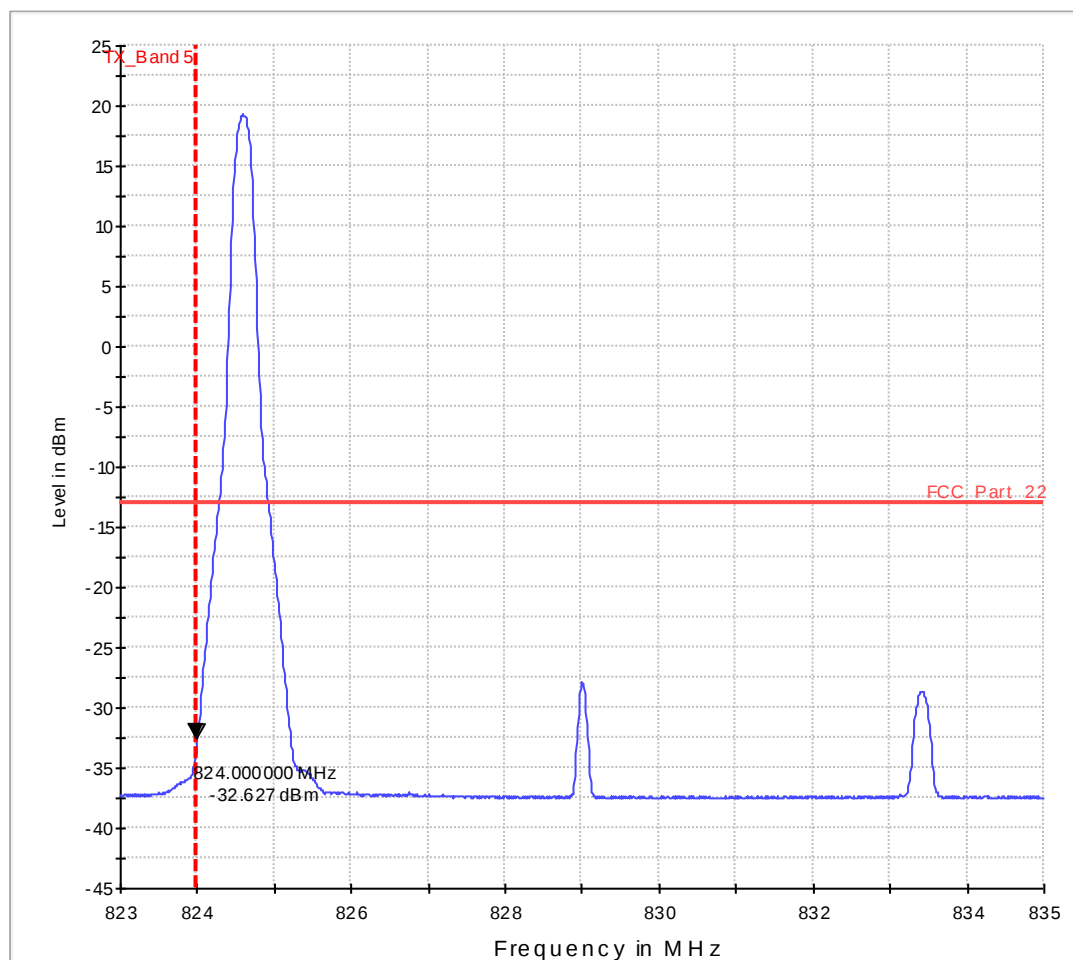
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20450, 10 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV



Scan Setup: Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV
[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
823 MHz - 835 MHz	10 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.517a**Common Information**

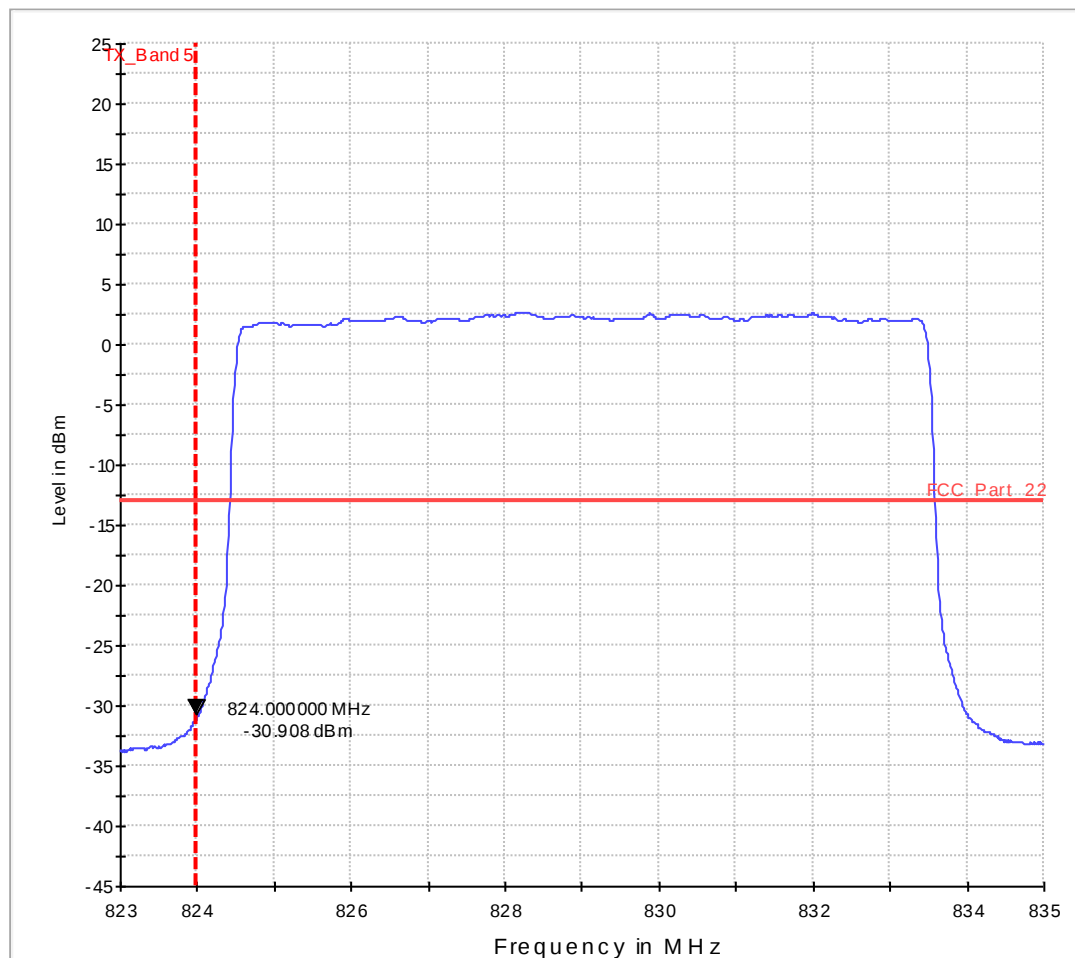
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20450, 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV



Scan Setup: Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV
[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
823 MHz - 835 MHz	10 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.517b**Common Information**

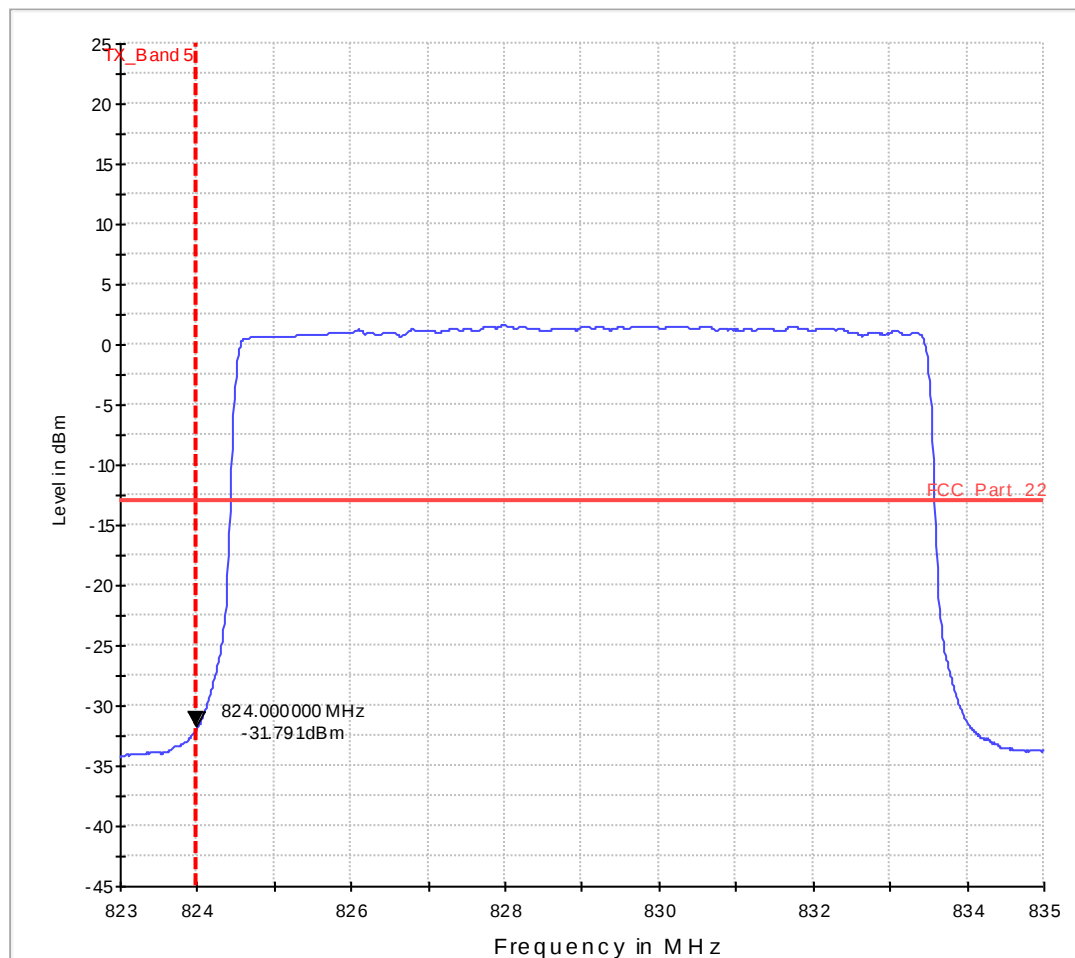
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20450, 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV



Scan Setup: Fula2_008b_FCC_22_BE_low_Channel_20450_BW_10MHz_AV
[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
823 MHz - 835 MHz	10 kHz	RMS	100 kHz	0.05 s	0 dB

1.7.2. Band - edge high

Diagram No. 37.502a

Common Information

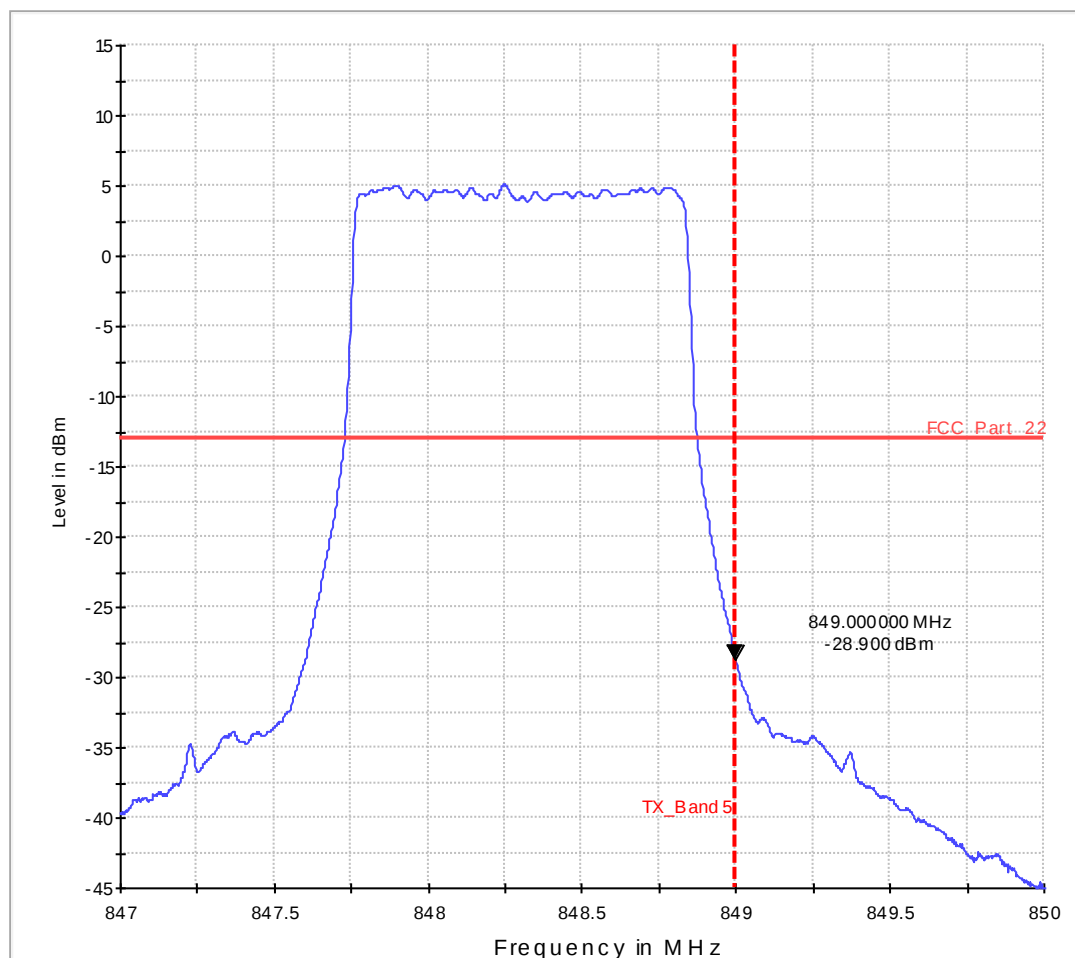
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operator Name:	TX - LTE V (QPSK), Channel 20643, 1.4 BW, 6RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV



**Scan Setup: Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV
[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
847 MHz - 850 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.502b**Common Information**

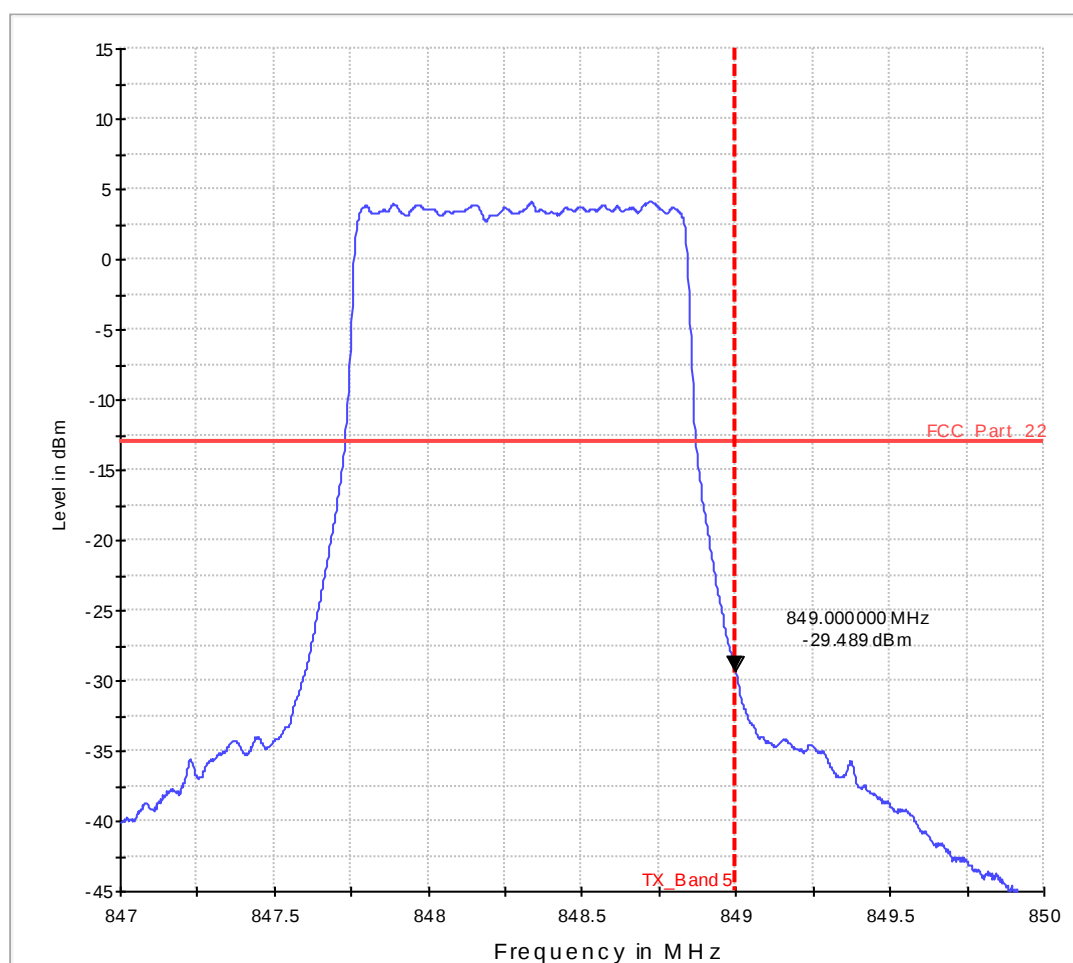
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operator Name:	TX - LTE V (QAM), Channel 20643, 1.4 BW, 6RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV



Scan Setup: Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV
[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
847 MHz - 850 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.503a**Common Information**

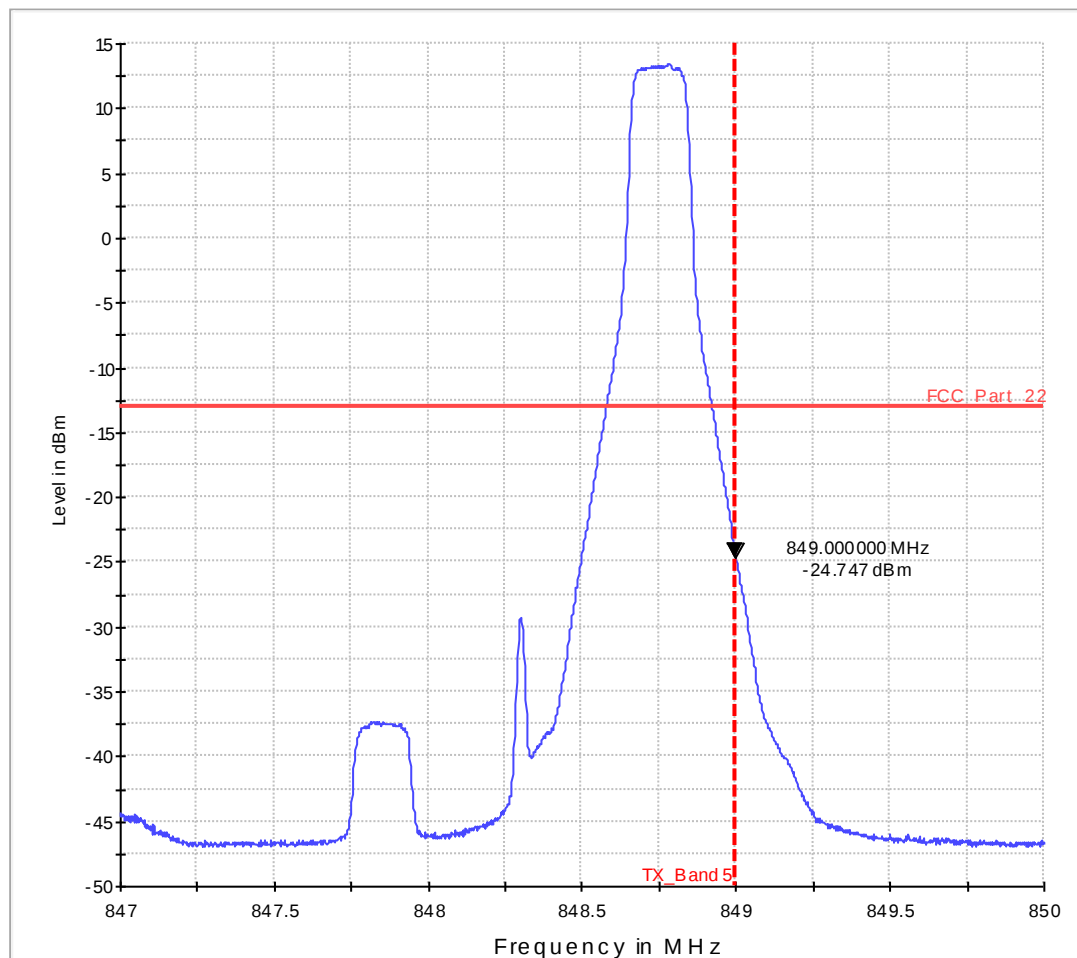
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operator Name:	TX - LTE V (QPSK), Channel 20643, 1.4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV



Scan Setup: Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV
[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
847 MHz - 850 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.503b**Common Information**

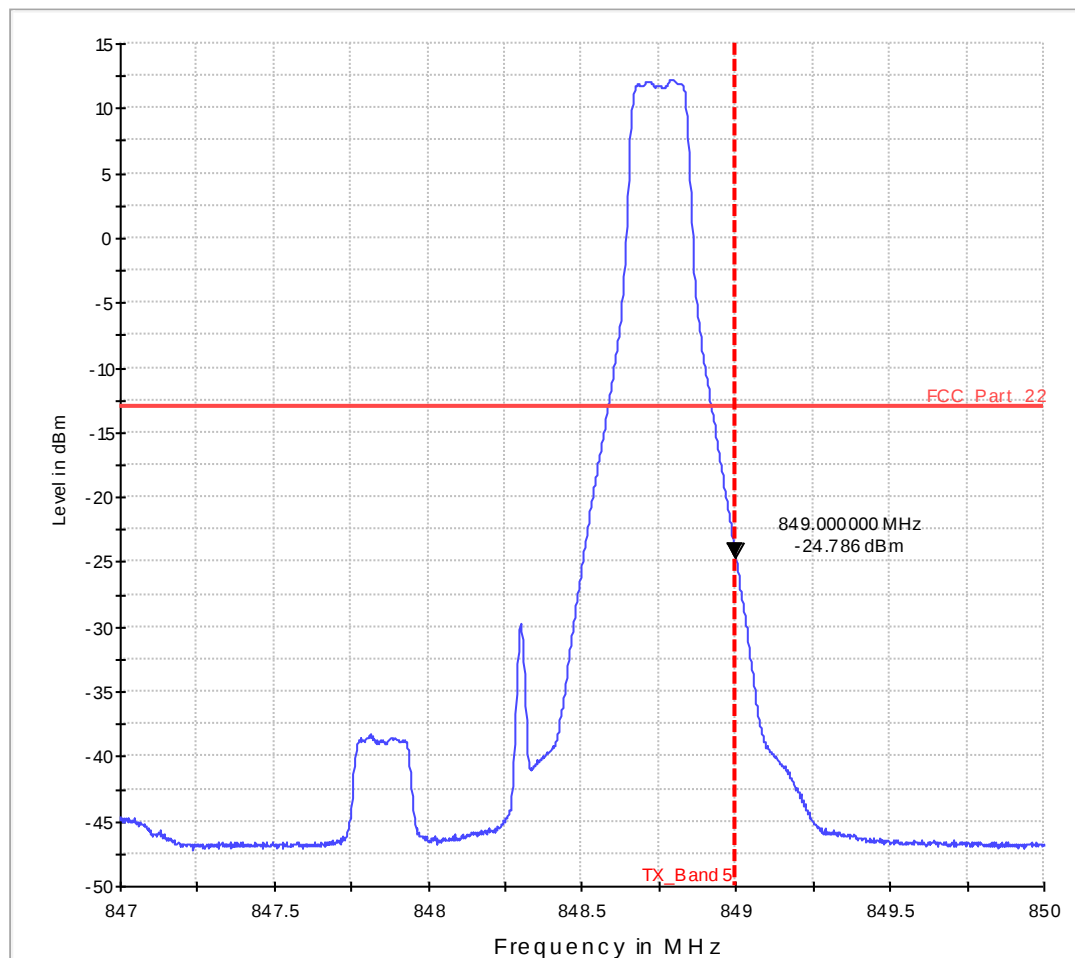
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operator Name:	TX - LTE V (QAM), Channel 20643, 1.4 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV



Scan Setup: Fula2_001b_FCC_22_BE_High_Channel_20643_BW_1_5MHz_AV
[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
847 MHz - 850 MHz	2 kHz	RMS	20 kHz	0.05 s	0 dB

Diagram No. 37.504a**Common Information**

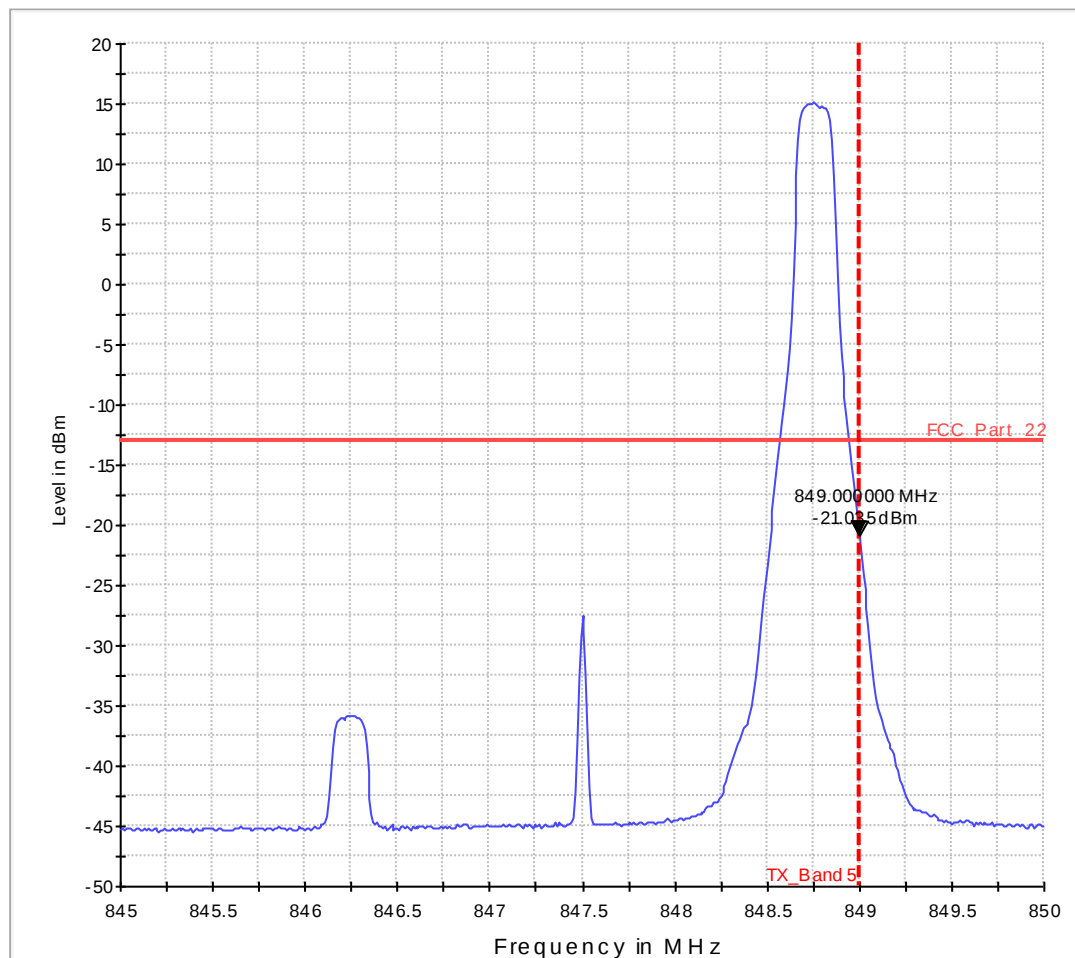
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20635, 3 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV



Scan Setup: Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV
[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
845 MHz - 850 MHz	10 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.504b**Common Information**

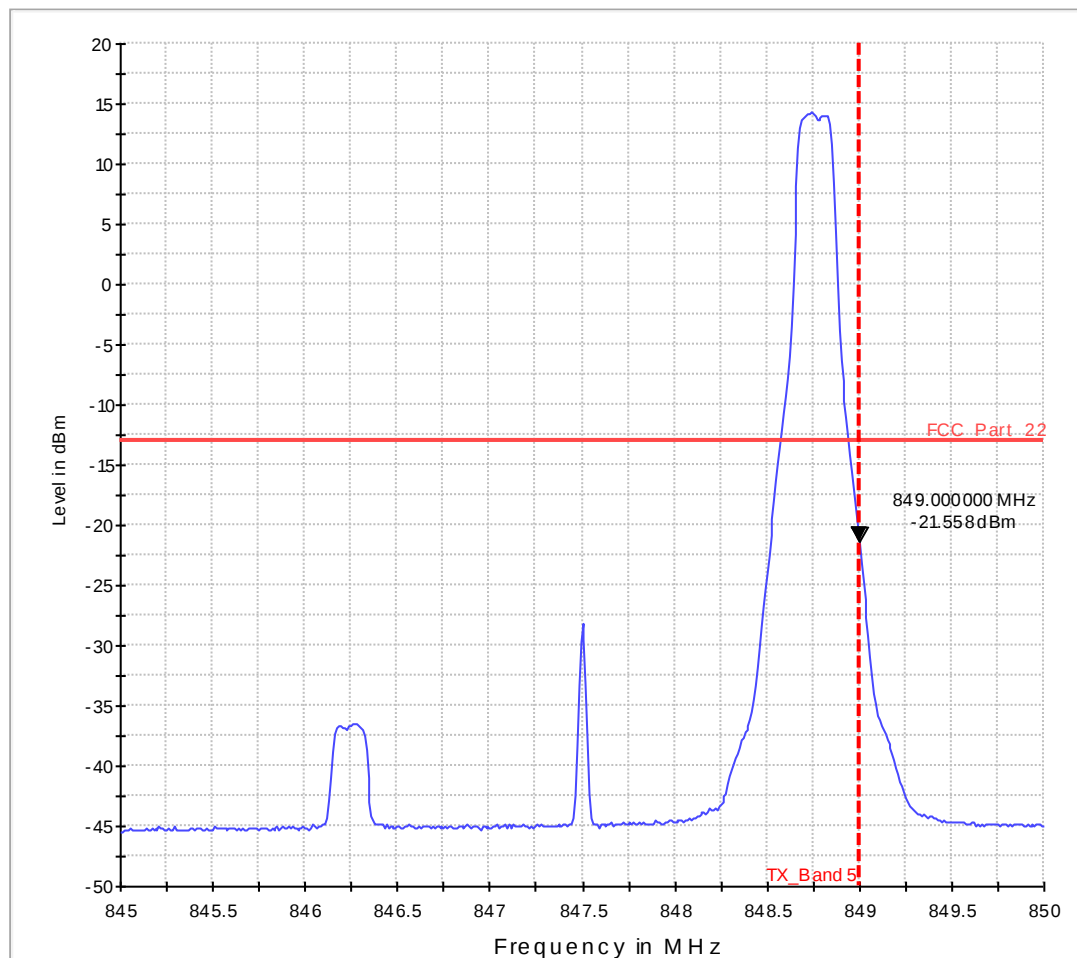
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20635, 3 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV



Scan Setup: Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV
[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
845 MHz - 850 MHz	10 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.505a**Common Information**

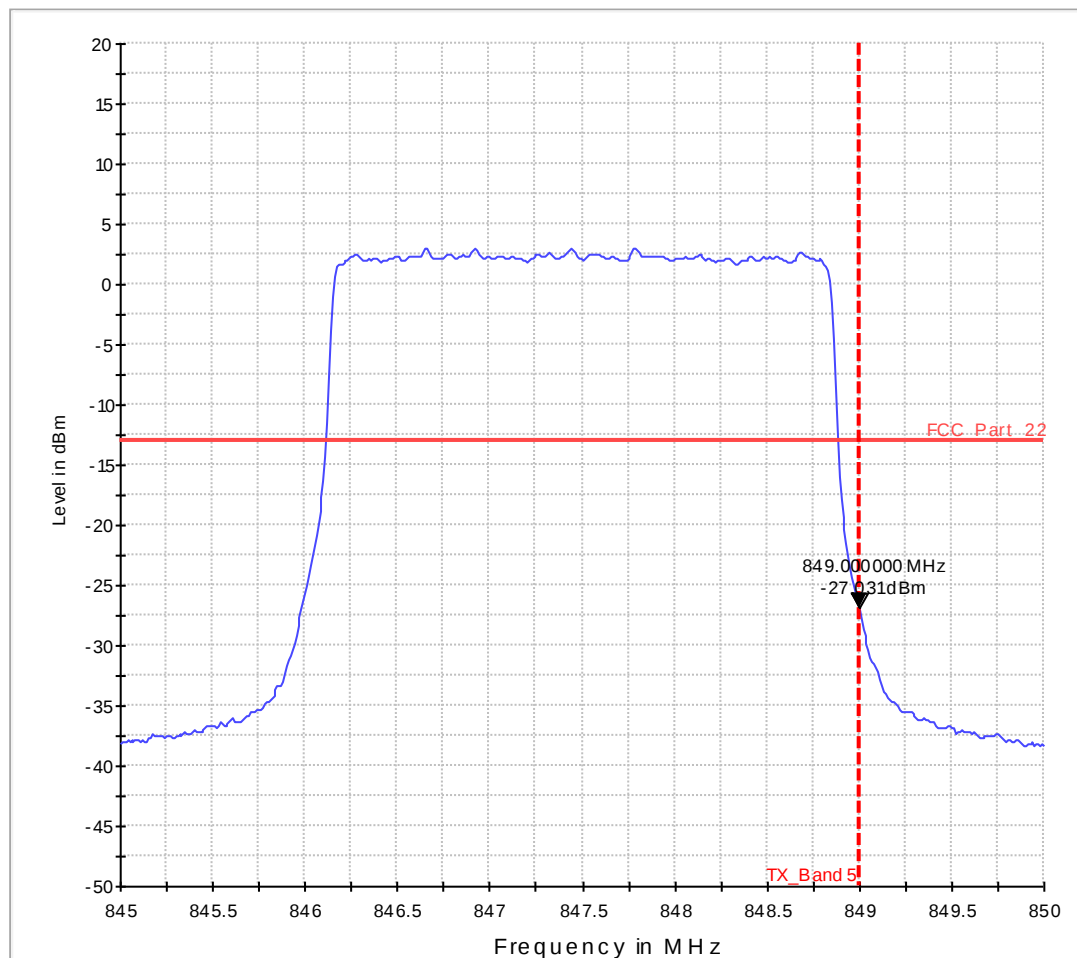
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20635, 3 BW, 15RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV



Scan Setup: Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV
[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
845 MHz - 850 MHz	10 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.505b**Common Information**

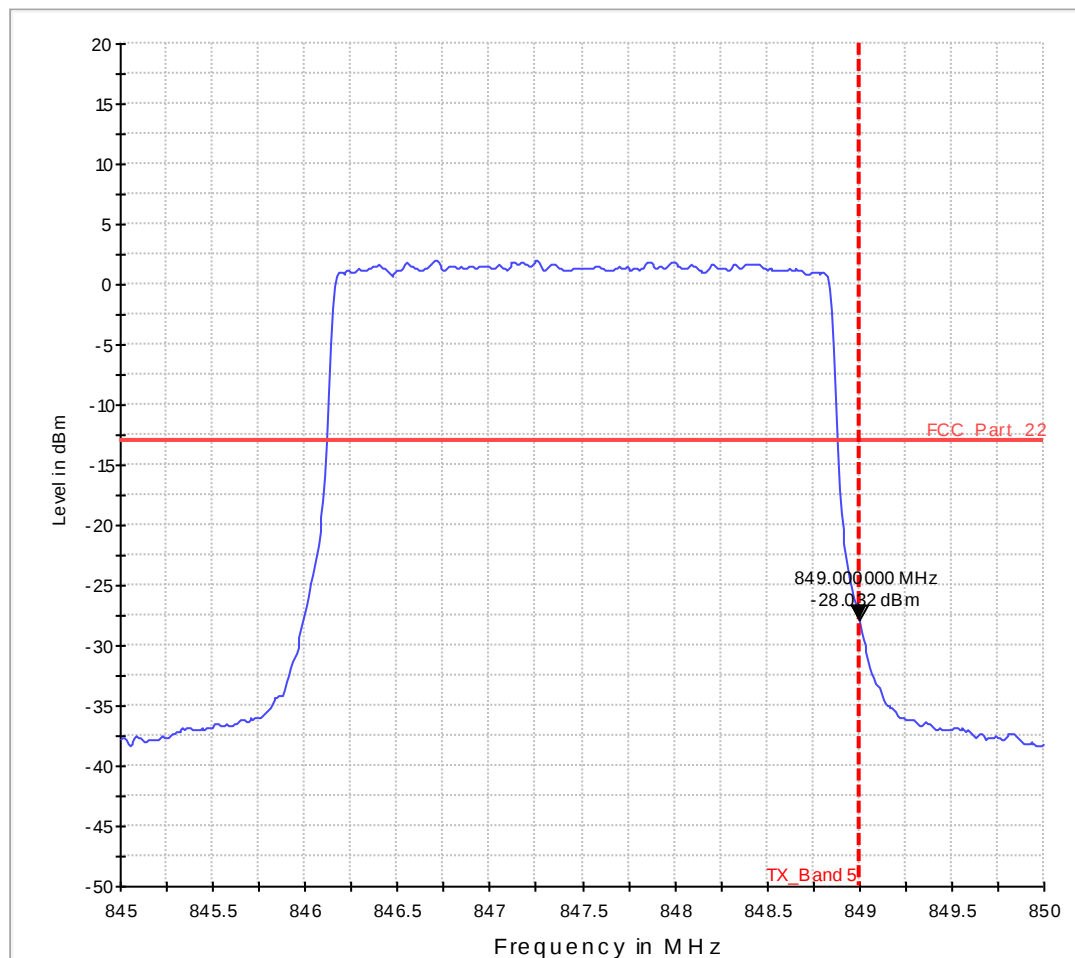
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20635, 3 BW, 15RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV



Scan Setup: Fula2_002b_FCC_22_BE_High_Channel_20635_BW_3MHz_AV
[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
845 MHz - 850 MHz	10 kHz	RMS	30 kHz	0.05 s	0 dB

Diagram No. 37.506a**Common Information**

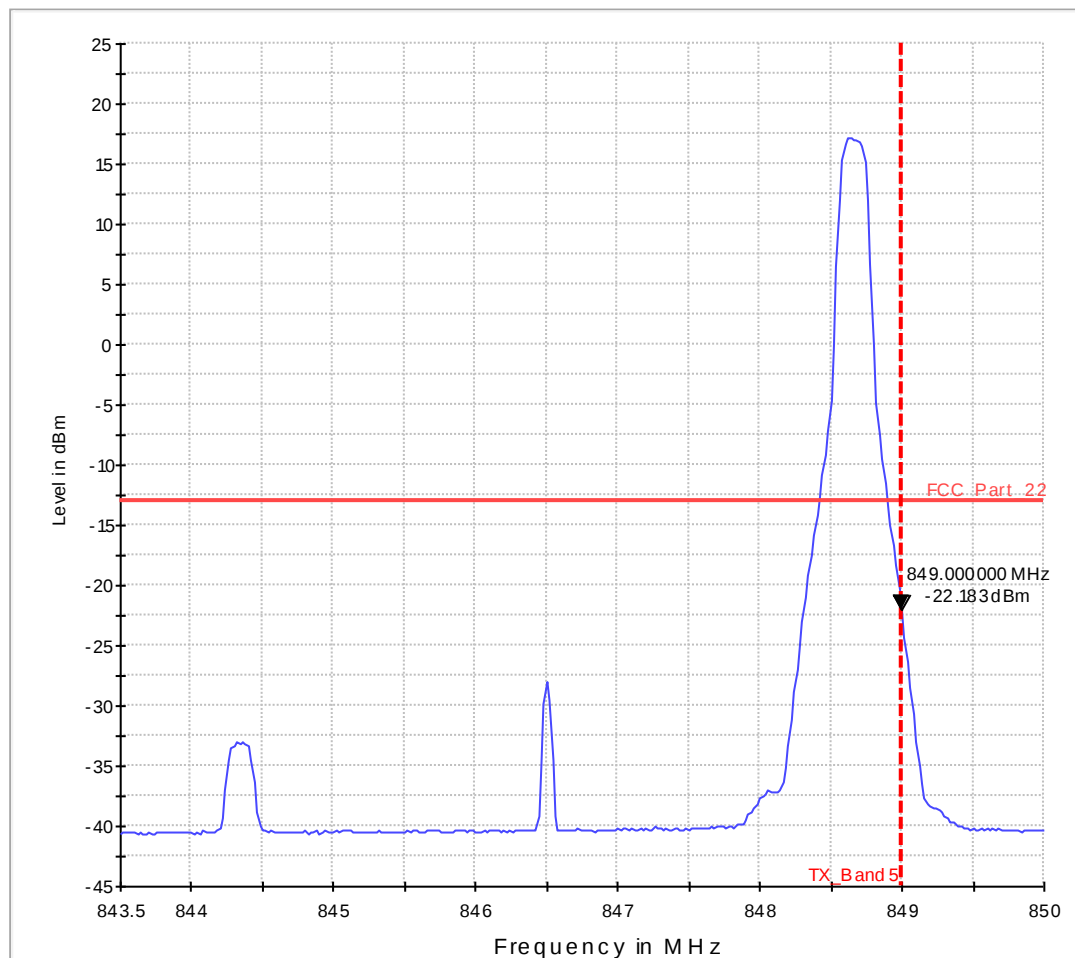
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20625, 5 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV



Scan Setup: Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV
[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	Preamplifier
843.5 MHz - 850 MHz	20 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.506b**Common Information**

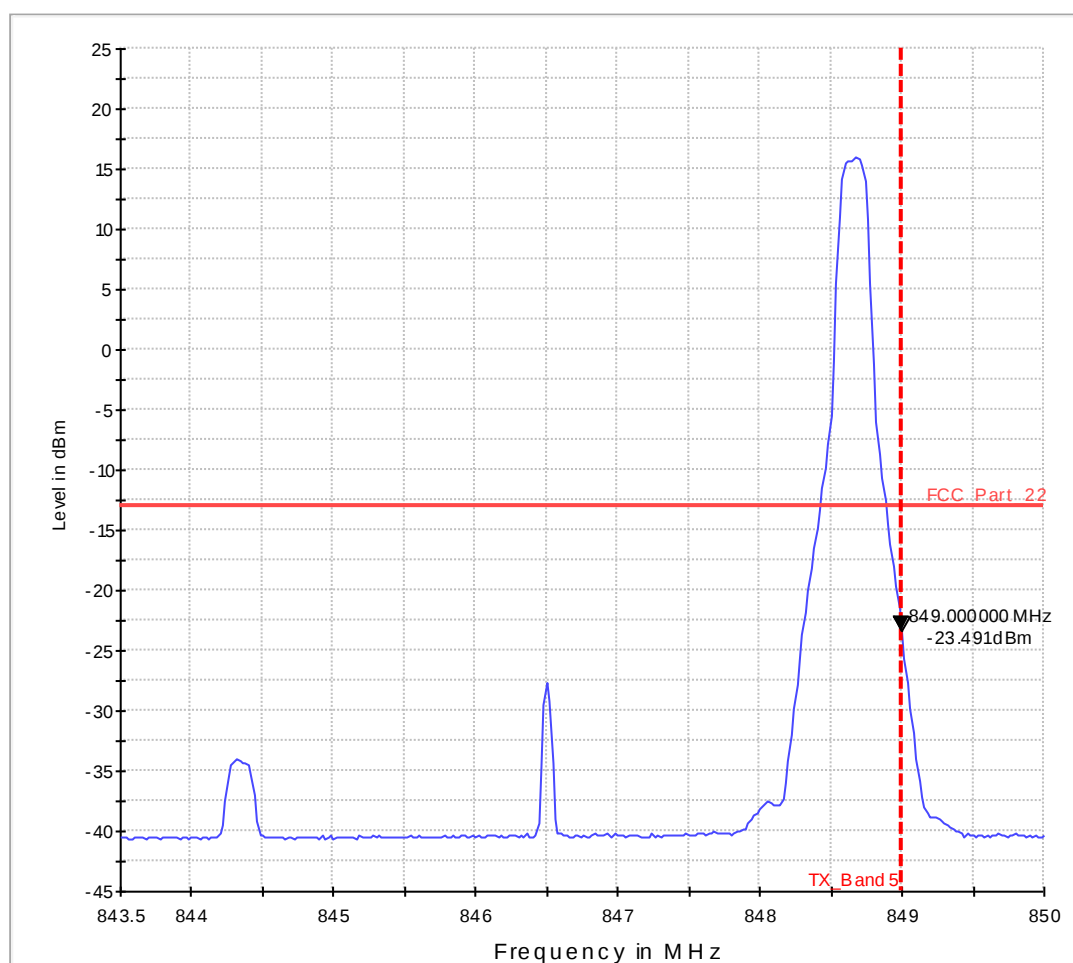
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20625, 5 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV



Scan Setup: Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV
[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
843.5 MHz - 850 MHz	20 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.507a

Common Information

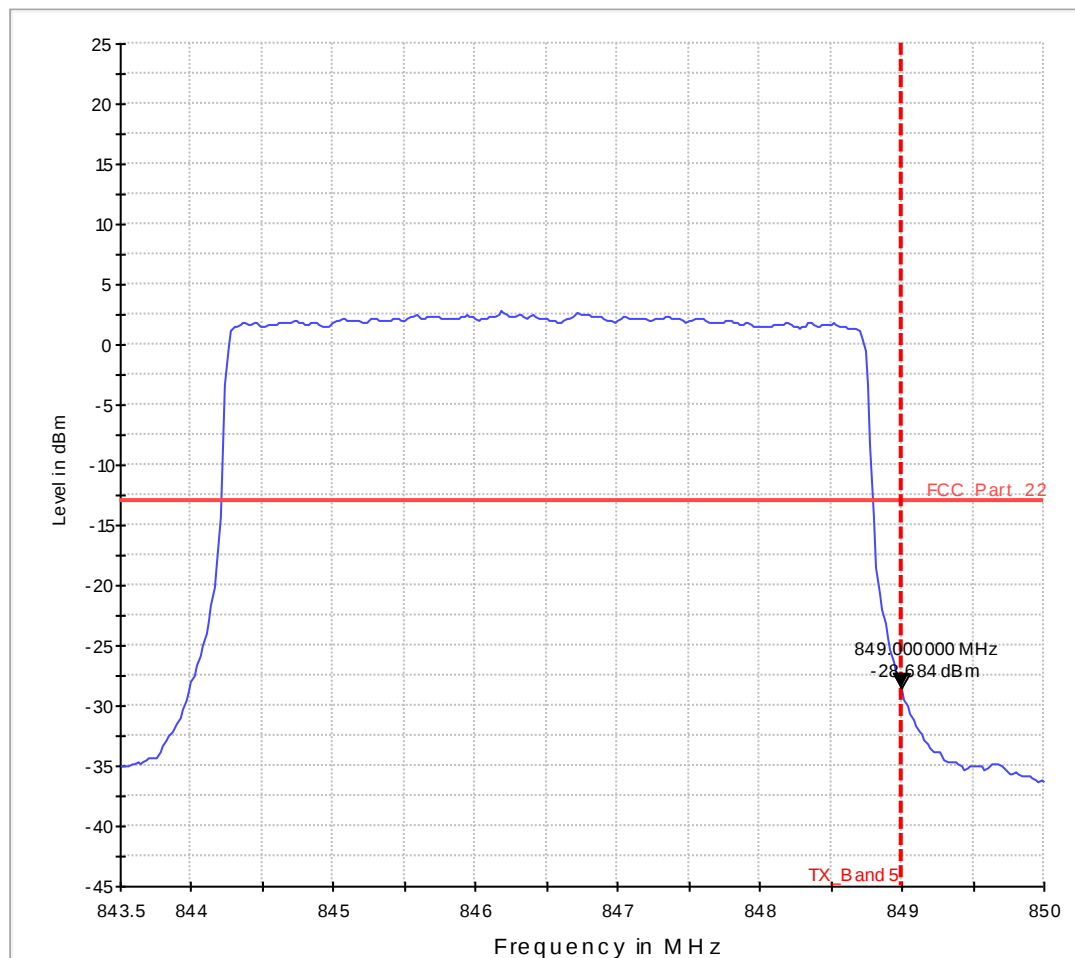
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20625, 5 BW, 25RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV



Scan Setup: Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV
[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
843.5 MHz - 850 MHz	20 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.507b

Common Information

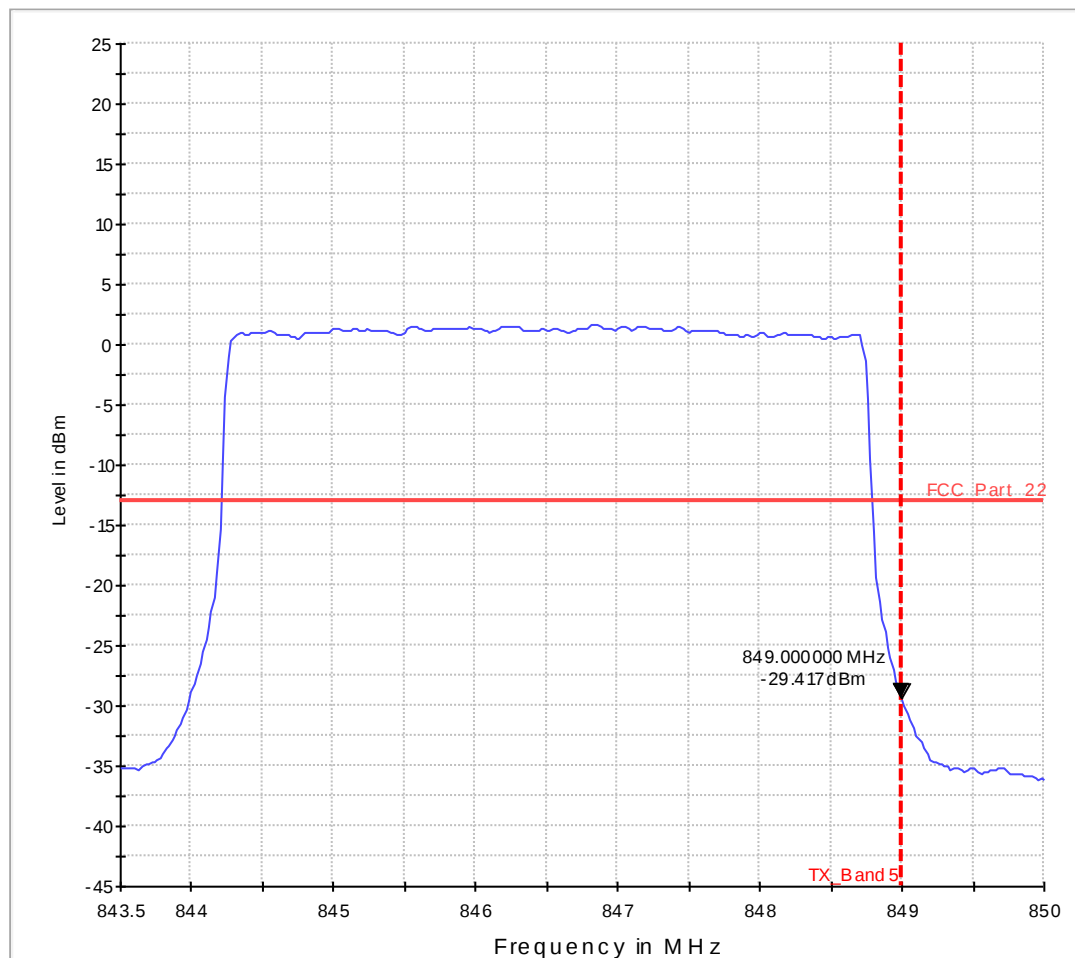
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20625, 5 BW, 25RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV



Scan Setup: Fula2_003b_FCC_22_BE_High_Channel_20625_BW_5MHz_AV
[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
843.5 MHz - 850 MHz	20 kHz	RMS	50 kHz	0.05 s	0 dB

Diagram No. 37.508a**Common Information**

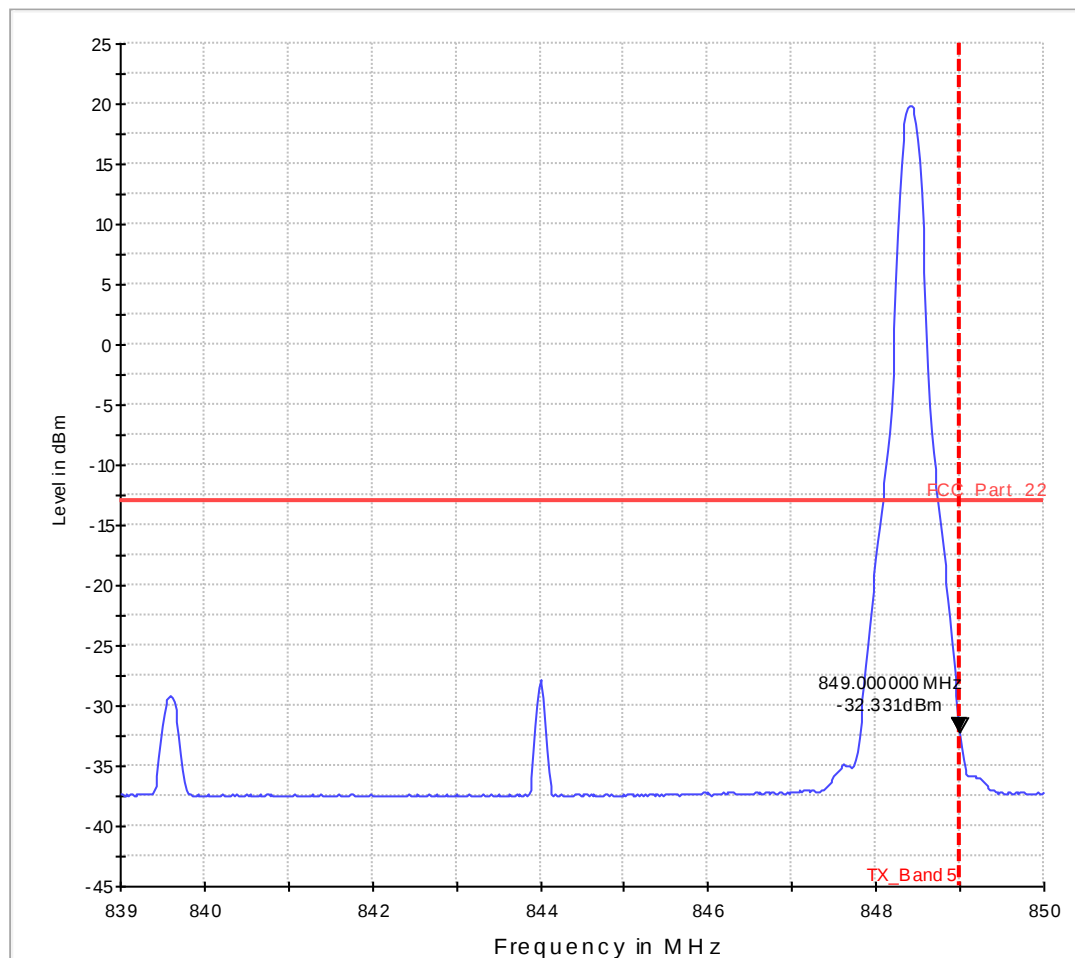
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20600, 10 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV



Scan Setup: Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV
[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
839 MHz - 850 MHz	20 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.508b**Common Information**

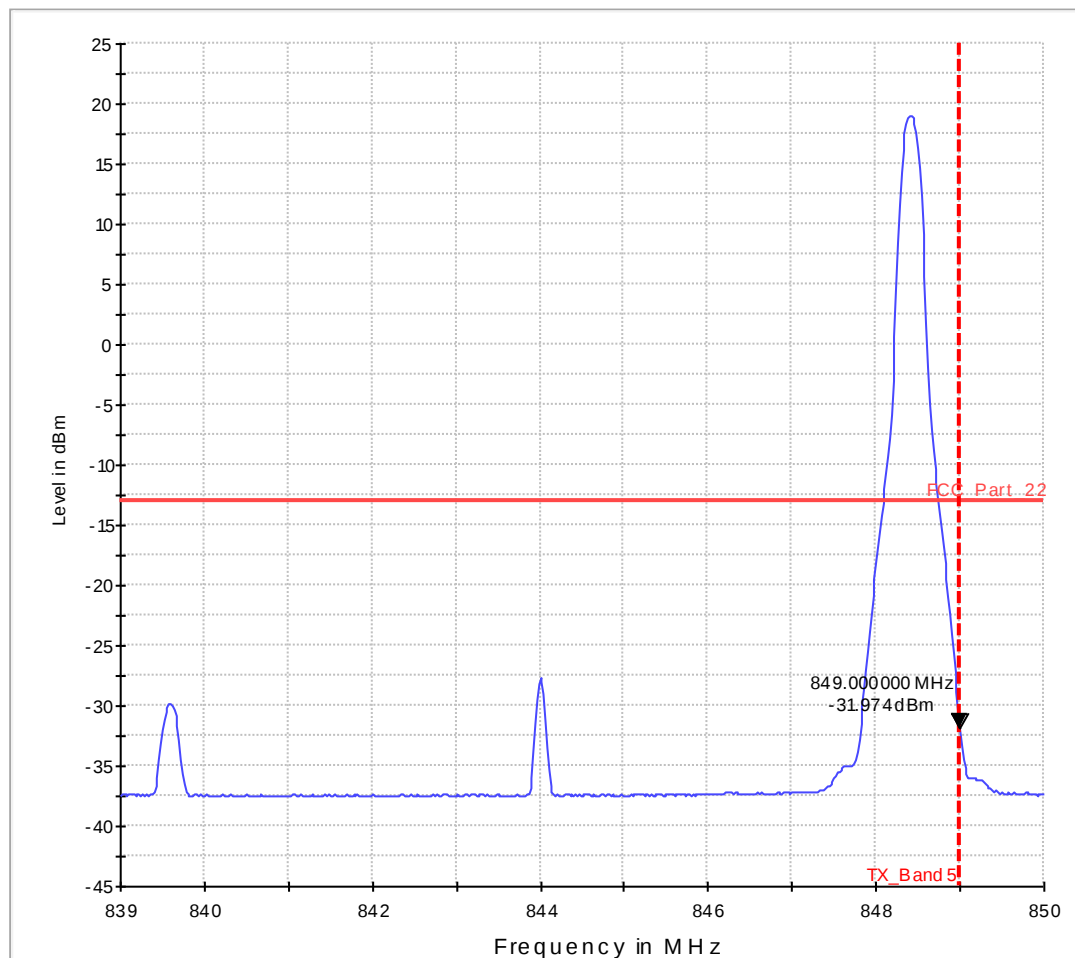
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20600, 10 BW, 1RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV



Scan Setup: Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV
[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
839 MHz - 850 MHz	20 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.509a

Common Information

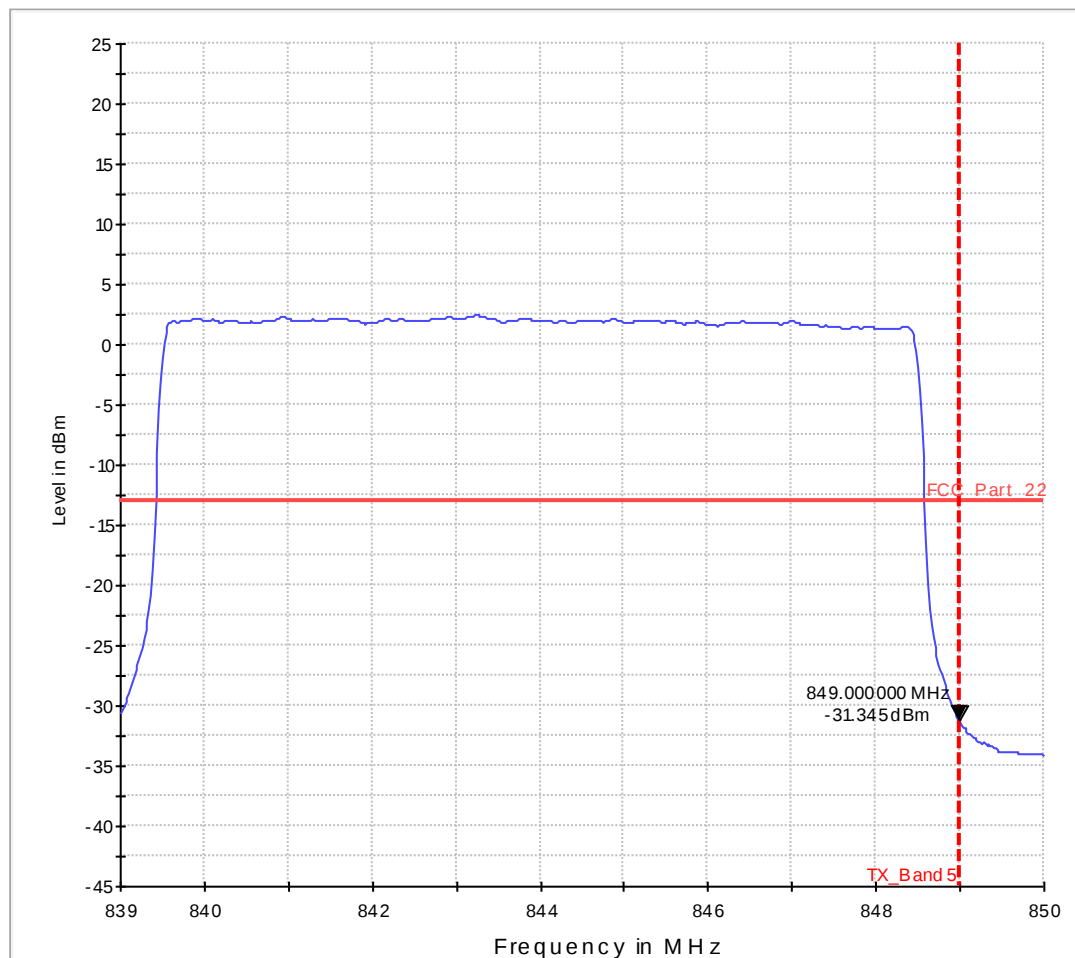
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QPSK), Channel 20600, 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV



Scan Setup: Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV
[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
839 MHz - 850 MHz	20 kHz	RMS	100 kHz	0.05 s	0 dB

Diagram No. 37.509b**Common Information**

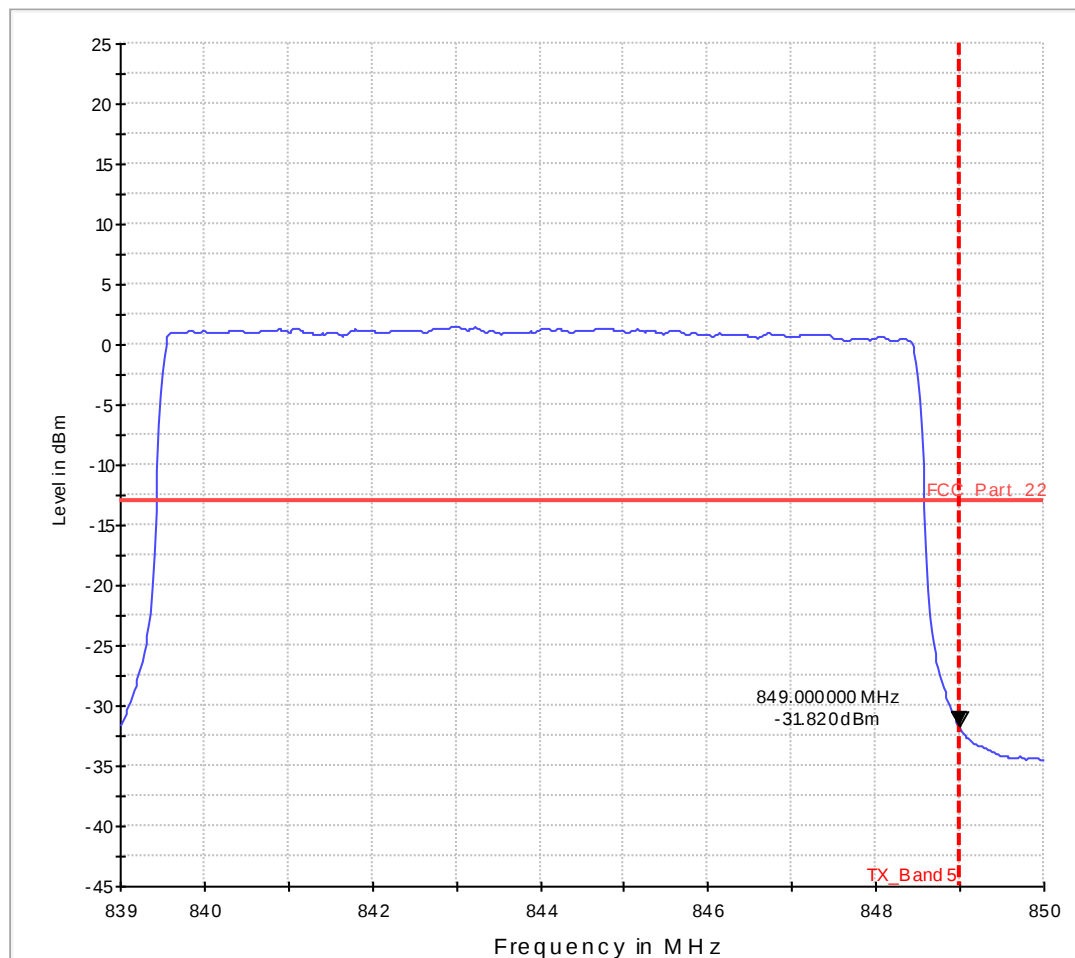
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2, EMC 32 v. 8.53.0
Test Standard:	FCC Part 22
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	dpa
Operating mode:	TX - LTE V (QAM), Channel 20600, 10 BW, 50RB

EUT Information

Manufacturer:	Peiker
EuT:	ATM-01 T1-ROW-4G

HW Version:	202.005.005
SW Version:	001.014.004
Serial Number:	000500309
Connected Interfaces:	--
Power Supply:	14VDC
Comments:	--

Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV



Scan Setup: Fula2_004b_FCC_22_BE_High_Channel_20600_BW_10MHz_AV
[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
839 MHz - 850 MHz	20 kHz	RMS	100 kHz	0.05 s	0 dB