

Annex 1: Measurement diagrams
to TEST REPORT
No.: 15-1-0017001T01a

According to:
FCC Regulations
Part 22, Part 24, Part 27

IC-Regulations
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 2, RSS-Gen Issue 4
RSS-130, Issue 1

for

peiker acoustic GmbH & Co. KG

ATM-01 T2-US-4GW

FCC-ID: QWY-ATM-T-622

IC: 6588A-ATMT622

PMN: ATM trunk version

HVIN: ATM-01 T2-US-4GW







Laboratory Accreditation and Listings			
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Table of contents

1. MEASUREMENT DIAGRAMS FOR GSM TECHNOLOGY	3
1.1. Spurious emissions radiated (850 MHz transmitting mode)	3
1.2. Radiated emissions on 850 MHz transmitting band-edge.....	6
1.3. Spurious emissions radiated (1900 MHz transmitting mode).....	8
1.4. Radiated emissions on 1900 MHz transmitting band-edge.....	11
2. MEASUREMENT DIAGRAMS FOR W-CDMA MODE	13
2.1. Spurious emissions radiated (FDD Band II transmitting mode)	13
2.2. Spurious emissions radiated (FDD Band V transmitting mode).....	15
2.3. Radiated emissions on FDD Band II band-edge.....	17
2.4. Radiated emissions on FDD Band V band-edge.....	19
3. MEASUREMENT DIAGRAMS FOR LTE TECHNOLOGY	21
3.1. Spurious emissions radiated (LTE Band 2)	21
3.2. Spurious emissions radiated (LTE Band 4)	23
3.3. Spurious emissions radiated (LTE Band 5)	25
3.4. Spurious emissions radiated (LTE Band 17)	27
3.5. Radiated emissions – band-edge (LTE Band 2).....	29
3.6. Radiated emissions – band-edge (LTE Band 4).....	37
3.7. Radiated emissions – band-edge (LTE Band 5).....	45
3.8. Radiated emissions – band-edge (LTE Band 17).....	53

1. Measurement diagrams for GSM technology

1.1. Spurious emissions radiated (850 MHz transmitting mode)

1.1.1. Internal antenna

8.03_RSE_R_Ch251_GSM

Common Information

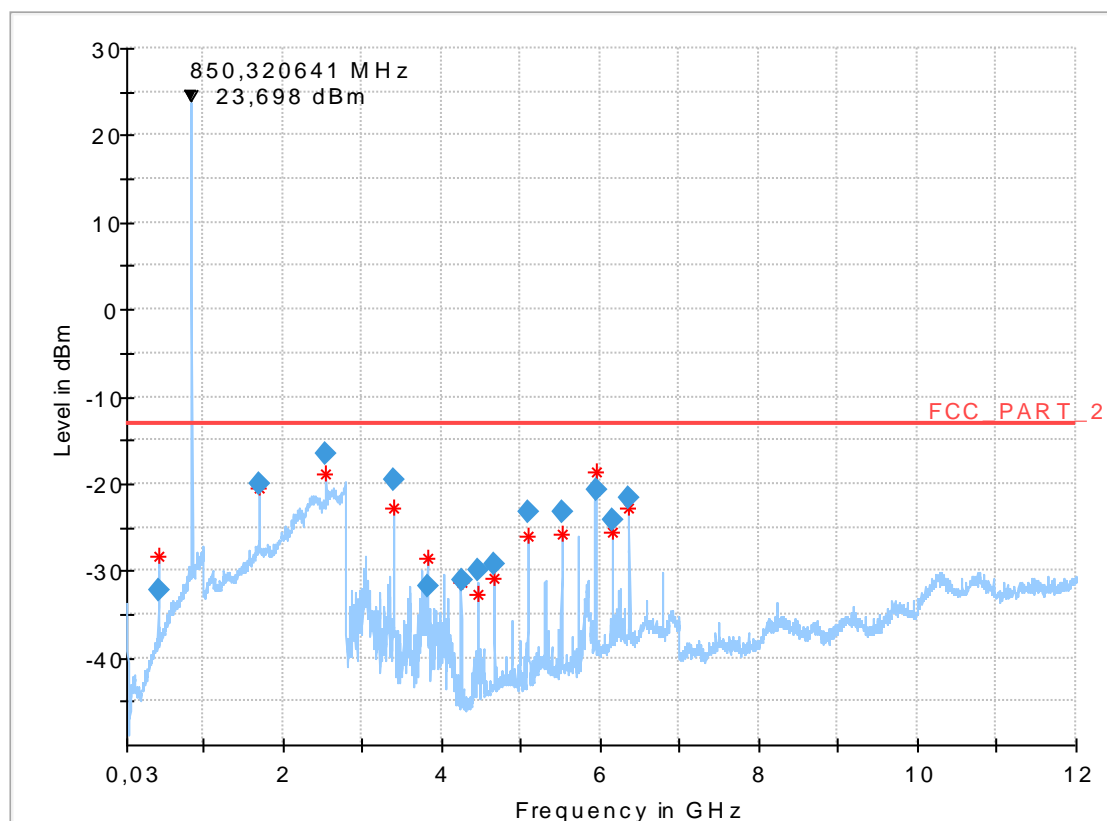
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 251 Voice
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
424.378757	-13.00	19.14	5000.0	V	37.0	0.0	-82.0
1697.625251	-13.00	7.01	5000.0	H	266.0	0.0	-62.8
2546.763527	-13.00	3.60	5000.0	V	112.0	0.0	-59.3
3395.060121	-13.00	6.68	5000.0	V	23.0	0.0	-95.4
3816.743487	-13.00	18.80	5000.0	V	55.0	0.0	-95.1
4243.757515	-13.00	18.17	5000.0	V	-21.0	0.0	-93.5
4455.881764	-13.00	16.86	5000.0	V	46.0	0.0	-92.9
4668.607214	-13.00	16.31	5000.0	H	86.0	0.0	-91.4
5093.356714	-13.00	10.29	5000.0	V	112.0	0.0	-90.9
5516.783567	-13.00	10.32	5000.0	V	112.0	0.0	-89.9
5941.172345	-13.00	7.80	5000.0	V	112.0	0.0	-88.1
6153.837675	-13.00	11.13	5000.0	V	-22.0	0.0	-87.0
6365.841683	-13.00	8.56	5000.0	V	-19.0	0.0	-86.6

1.1.2. External antenna

8.04_RSE_R_Ch128_GPRS

Common Information

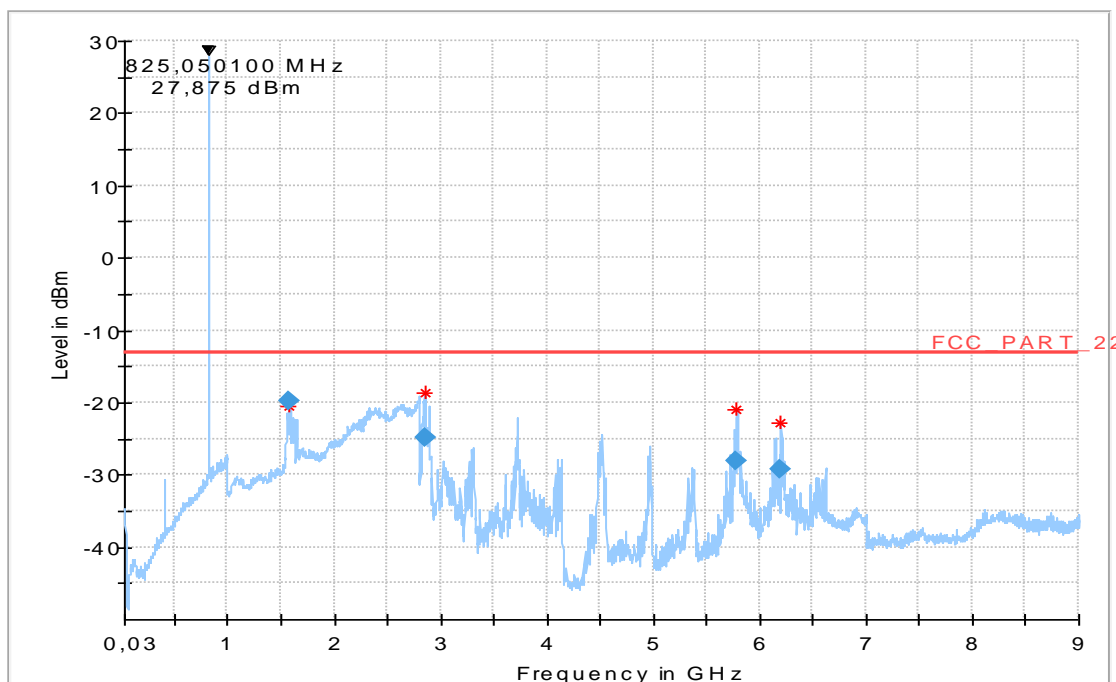
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1581.132265	-13.00	6.69	5000.0	1000.000	155.0	V	164.0	90.0	-64.3
2849.028056	-13.00	11.76	5000.0	1000.000	155.0	V	223.0	90.0	-95.8
5783.817635	-13.00	15.14	5000.0	1000.000	155.0	H	226.0	90.0	-88.3
6199.448898	-13.00	16.27	5000.0	1000.000	155.0	V	13.0	90.0	-86.5

1.2. Radiated emissions on 850 MHz transmitting band-edge

1.2.1. Internal antenna

9.02_BE_R_Ch251_GSM

Common Information

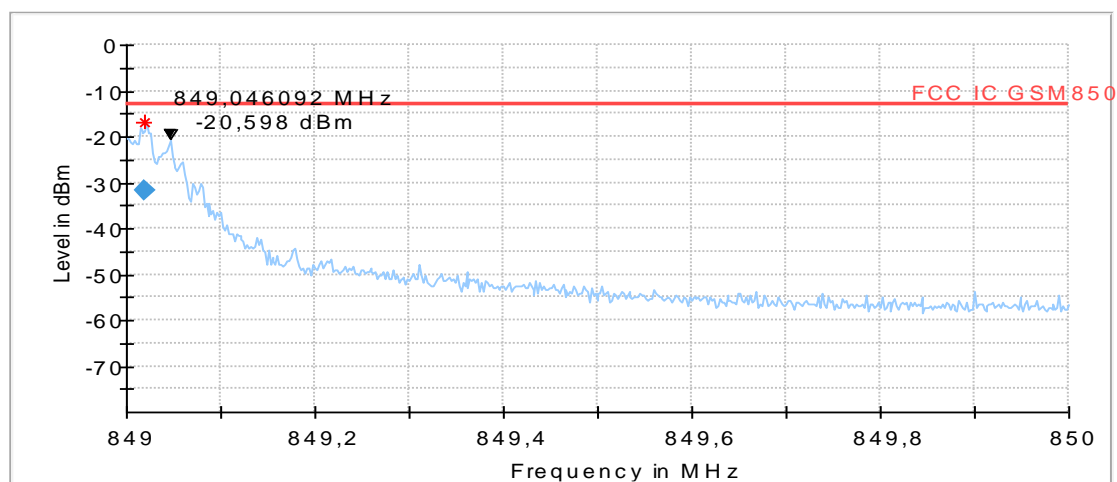
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), Voice,
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	Backup Antenna

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
849.020040	-13.00	18.69	10000.0	H	39.0	0.0	-76.0

1.2.2. External antenna

9.03_RSE_R_Ch128_GPRS

Common Information

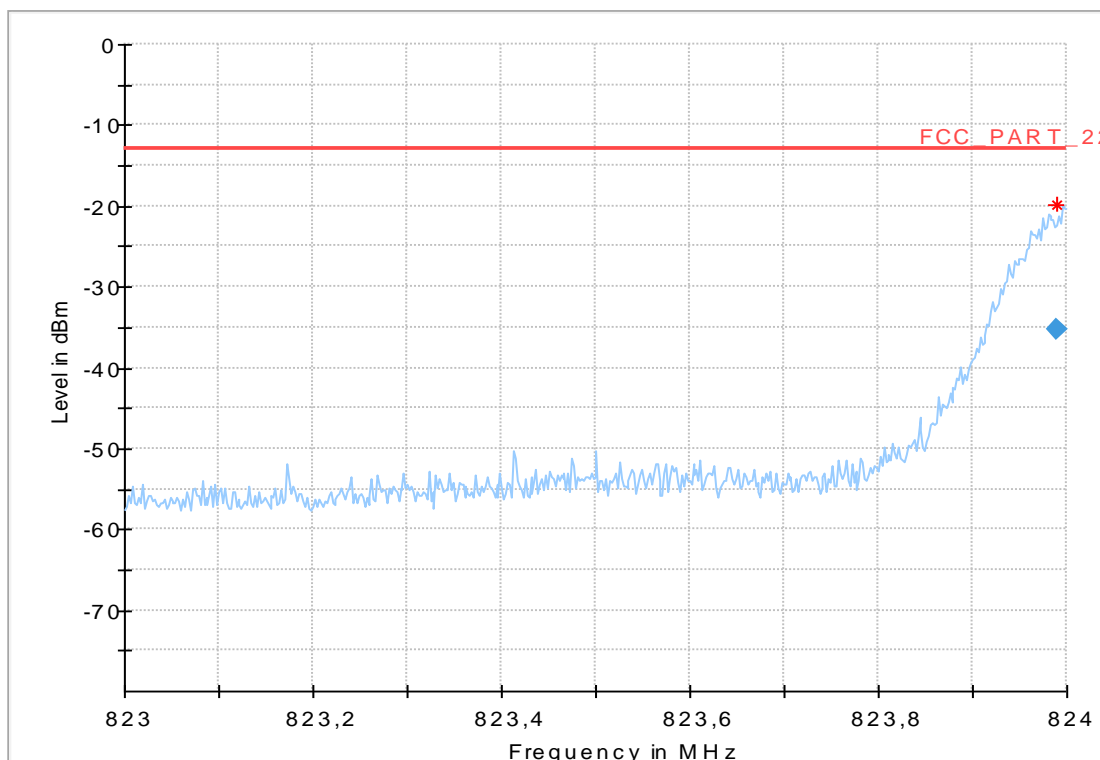
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
823.989980	-13.00	22.38	10000.0	3.000	155.0	V	356.0	0.0	-75.8

1.3. Spurious emissions radiated (1900 MHz transmitting mode)

1.3.1. Internal antenna

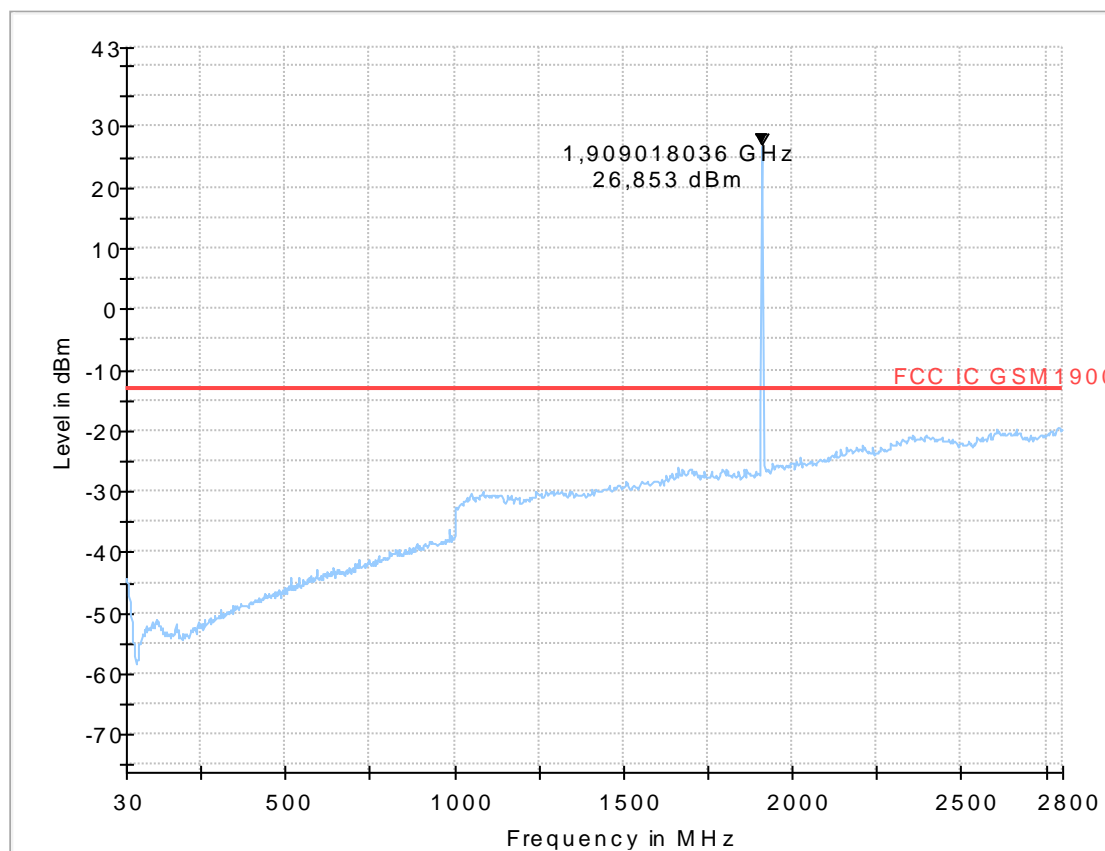
8.12a_RSE_R_CH810_GSM_Sweep 30-2800 MHz

Common Information

Test Description:	Radiated Spurious Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 810), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	Hla/KMo
Comment:	Sweep 30 MHz- 2.8 GHz

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



8.12b_RSE_R_CH810_GSM_Sweep 2.8-19.5 GHz

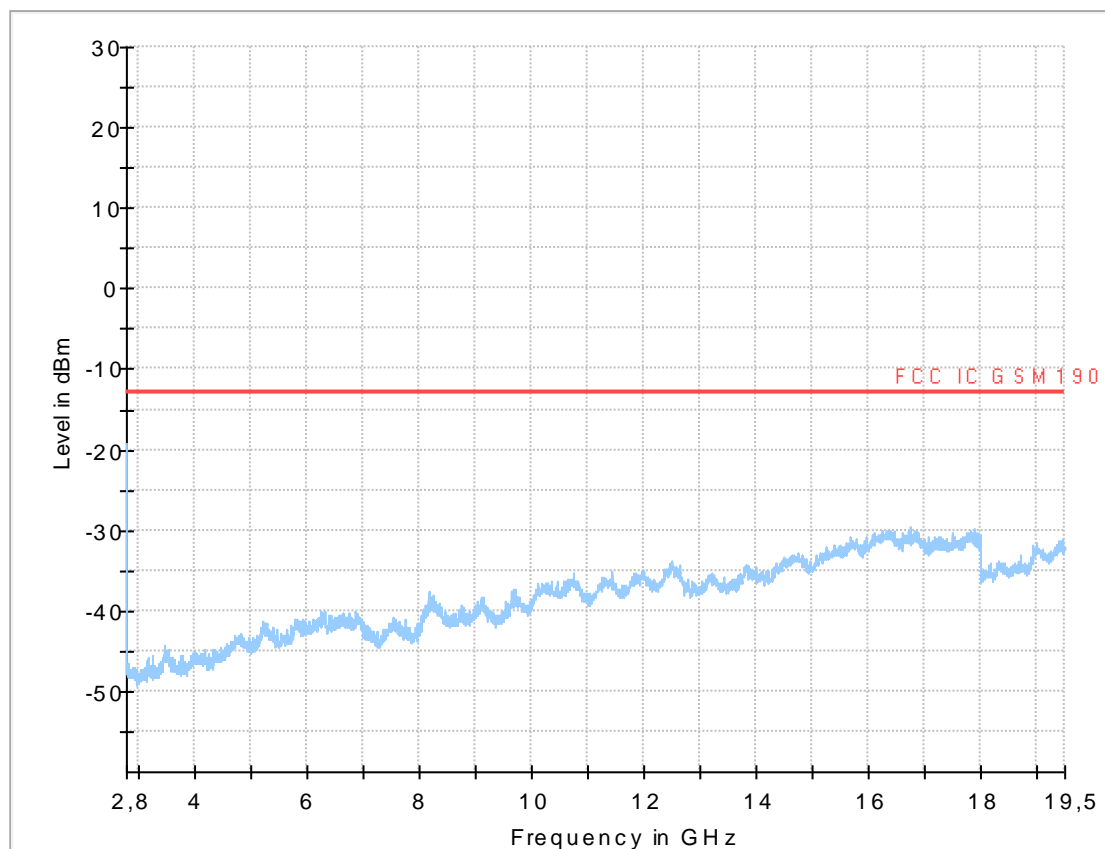
Common Information

Test Description:	Radiated Spurious Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	MS allocated channel 810 , Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa/KMo

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



1.3.2. External antenna

8.13_RSE_R_Ch512_GPRS

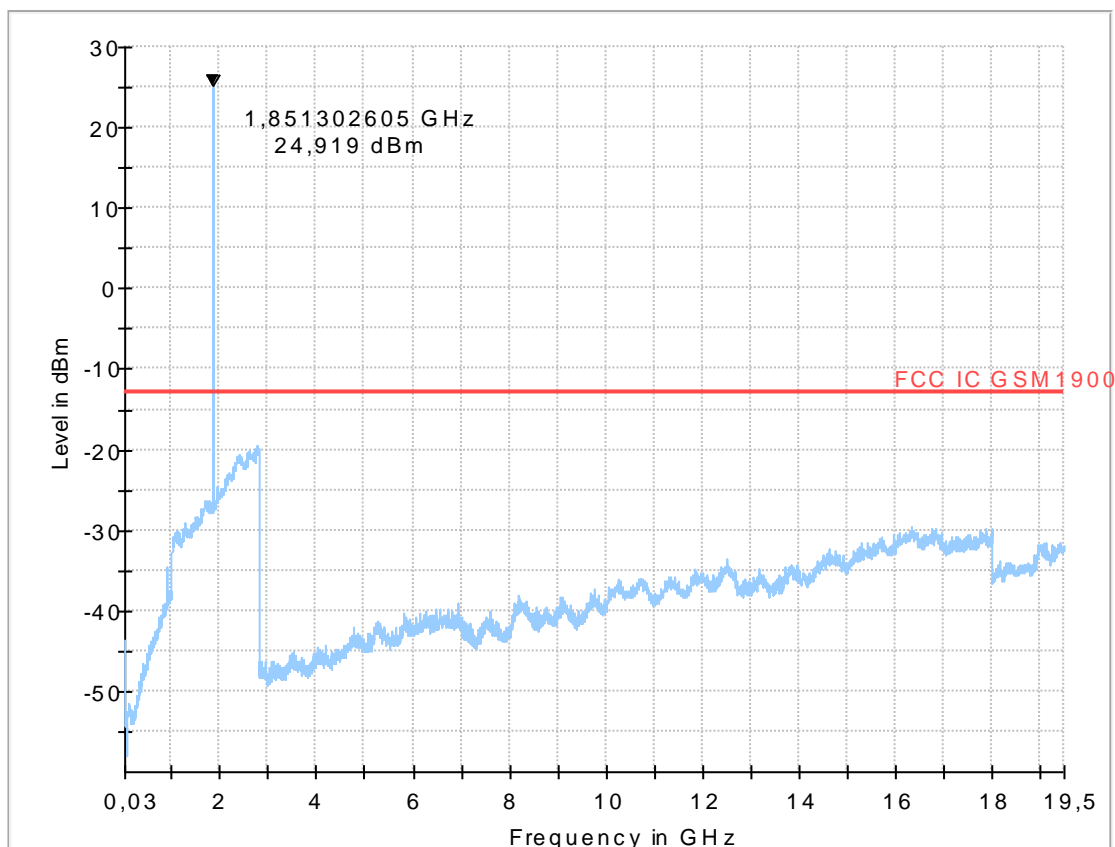
Common Information

Test Description:	Radiated Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Test Case:	-
Operating Mode:	MS allocated channel 512 GPRS, MCS0
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



1.4. Radiated emissions on 1900 MHz transmitting band-edge

1.4.1. Internal antenna

9.08_BE_R_Ch810_GSM

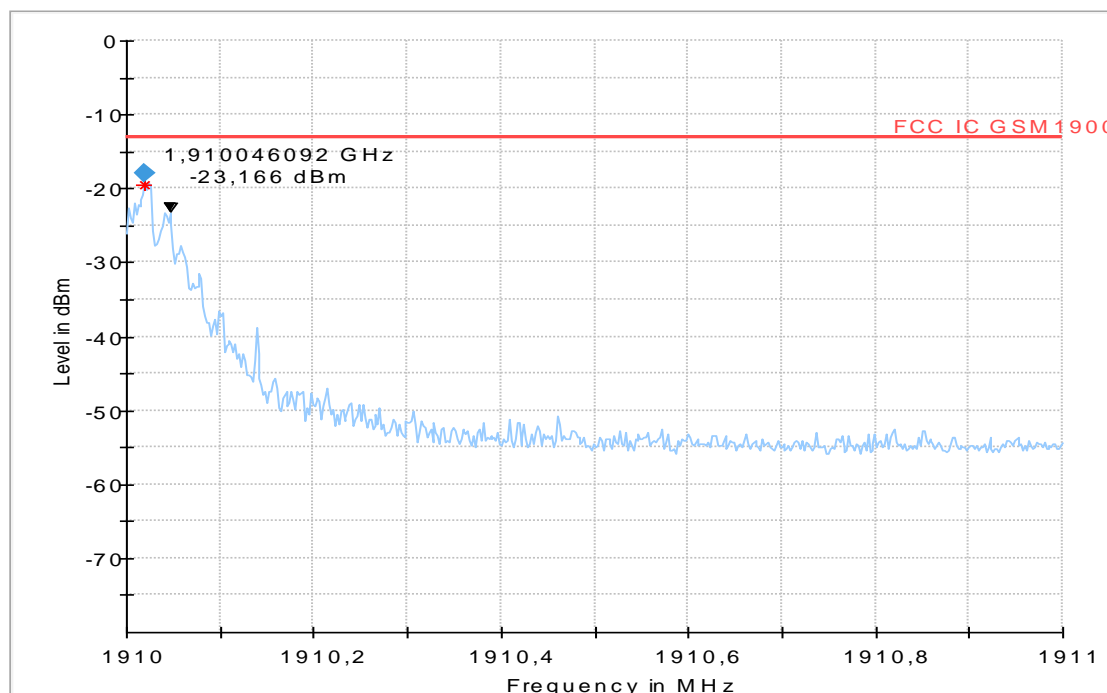
Common Information

Test Description:	Radiated Band Edge Compliance GSM1900
Operating Conditions:	CETECOM GmbH Essen
Operator Name:	Fully Anechoic Room (FAR)
Comment:	FCC Part 24
Operating Mode:	MS allocated channel 810), Voice,
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.020040	-17.98	-13.00	4.98	10000.0	3.000	V	231.0	90.0	-62.8

1.4.2. External antenna

9.09_BE_R_Ch512_GPRS

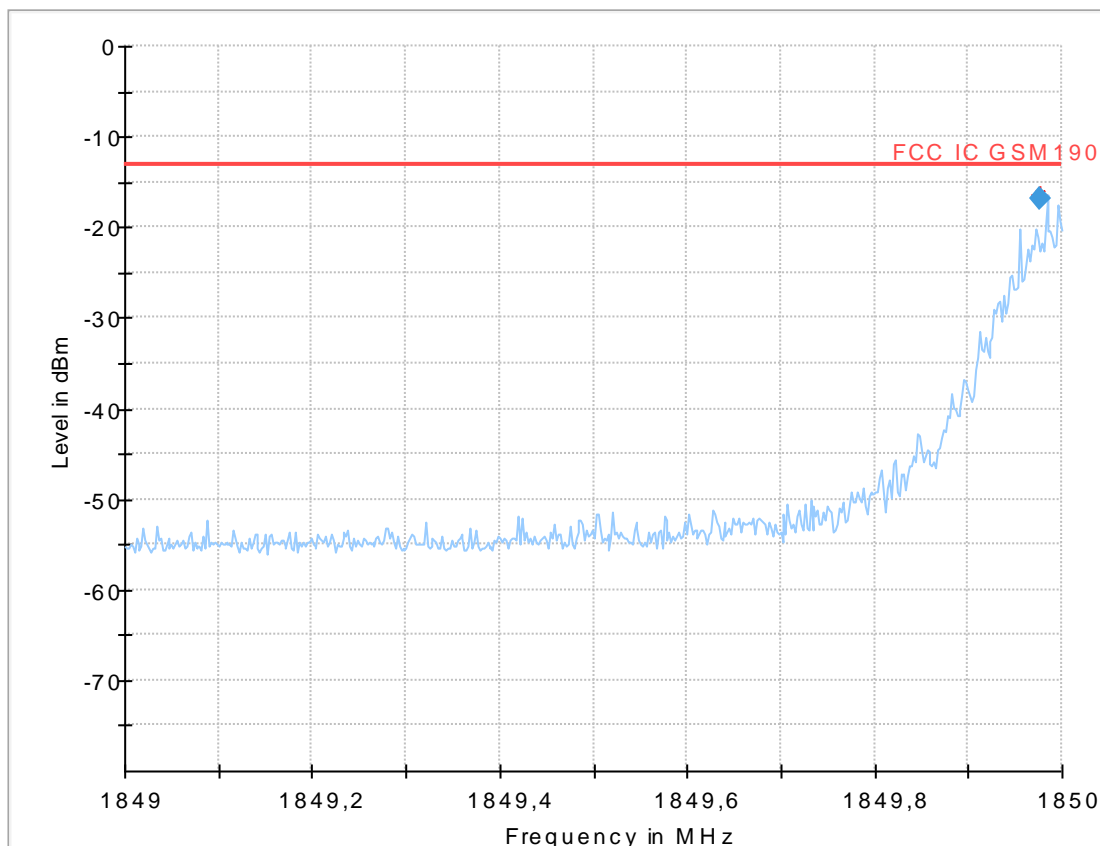
Common Information

Test Description:	Radiated Band Edge Compliance GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Test Case:	-
Operating Mode:	MS allocated channel 512 GPRS, MCS0
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.975952	-16.81	-13.00	3.81	10000.0	3.000	H	291.0	90.0	-63.1

2. Measurement diagrams for W-CDMA Mode

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

2.1.1. Internal antenna

8.22_RSE_R_Ch9538

Common Information

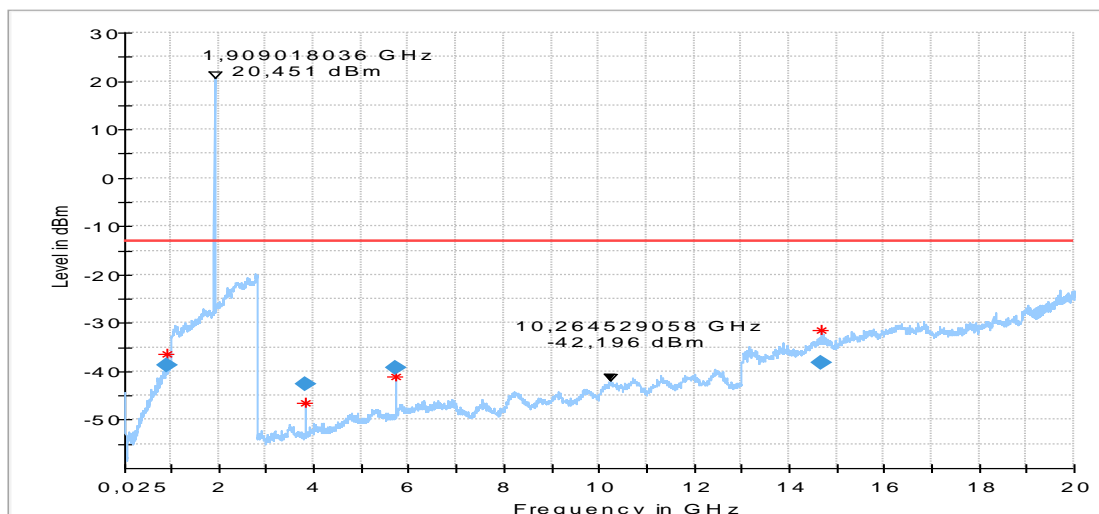
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
908.486974	-13.00	25.84	10000.0	H	28.0	0.0	-75.0
3813.657315	-13.00	29.51	10000.0	V	-20.0	90.0	-95.1
5726.322645	-13.00	26.16	10000.0	H	0.0	90.0	-89.5
14685.400802	-13.00	25.25	10000.0	H	314.0	90.0	-72.3

2.1.2. External antenna

8.23_RSE_R_Ch9262

Common Information

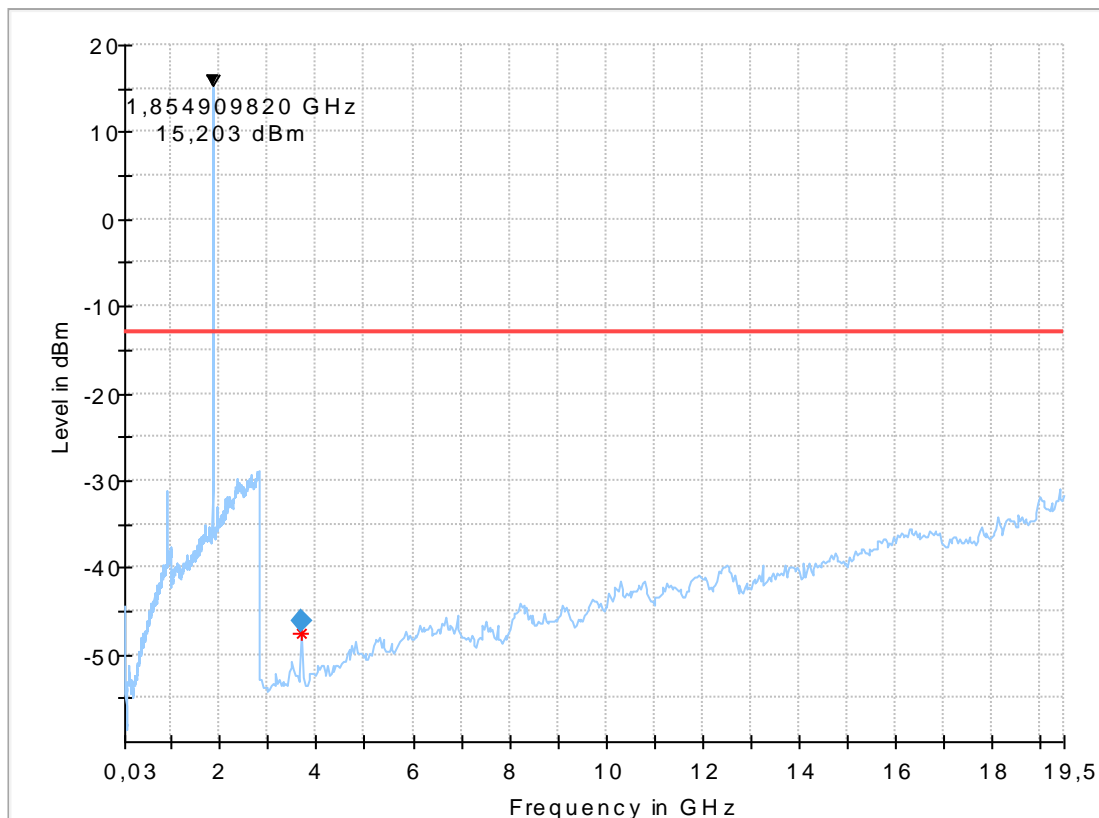
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3703.348698	-13.00	33.24	10000.0	1000.000	155.0	V	256.0	0.0	-94.9

2.2. Spurious emissions radiated (FDD Band V transmitting mode)

2.2.1. Internal antenna

8.52_RSE_R_Ch4233

Common Information

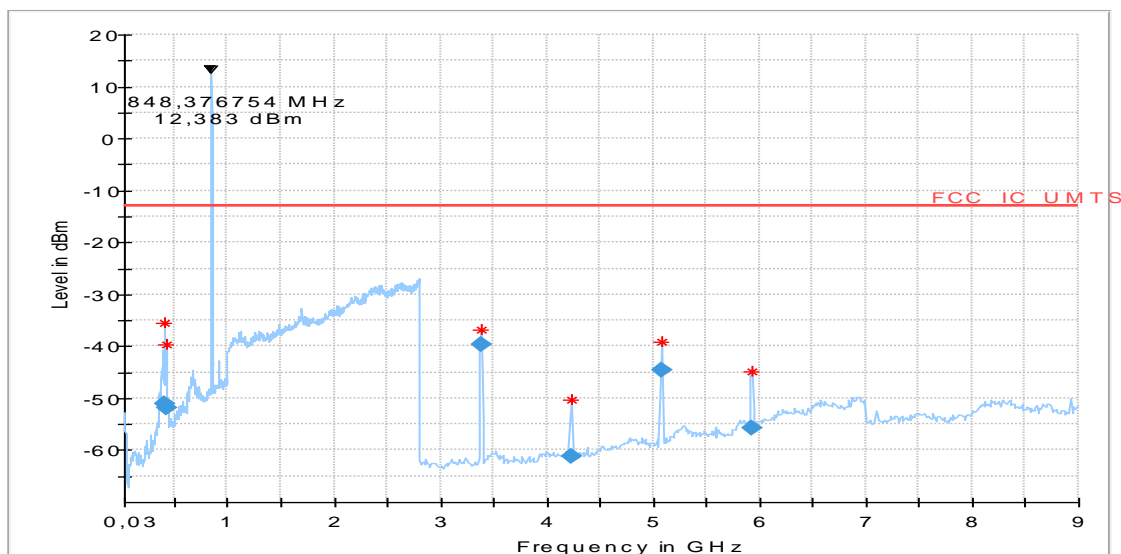
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
409.729458	-13.00	37.97	1000.0	H	-37.0	90.0	-82.3
423.216433	-13.00	38.96	1000.0	H	-50.0	90.0	-82.0
3383.517034	-13.00	26.76	1000.0	V	260.0	0.0	-95.5
4229.248498	-13.00	48.09	1000.0	V	33.0	90.0	-93.5
5081.472946	-13.00	31.69	1000.0	V	112.0	0.0	-91.0
5918.947896	-13.00	42.62	1000.0	V	89.0	90.0	-88.2

2.2.2. External antenna

8.53_RSE_R_Ch4132

Common Information

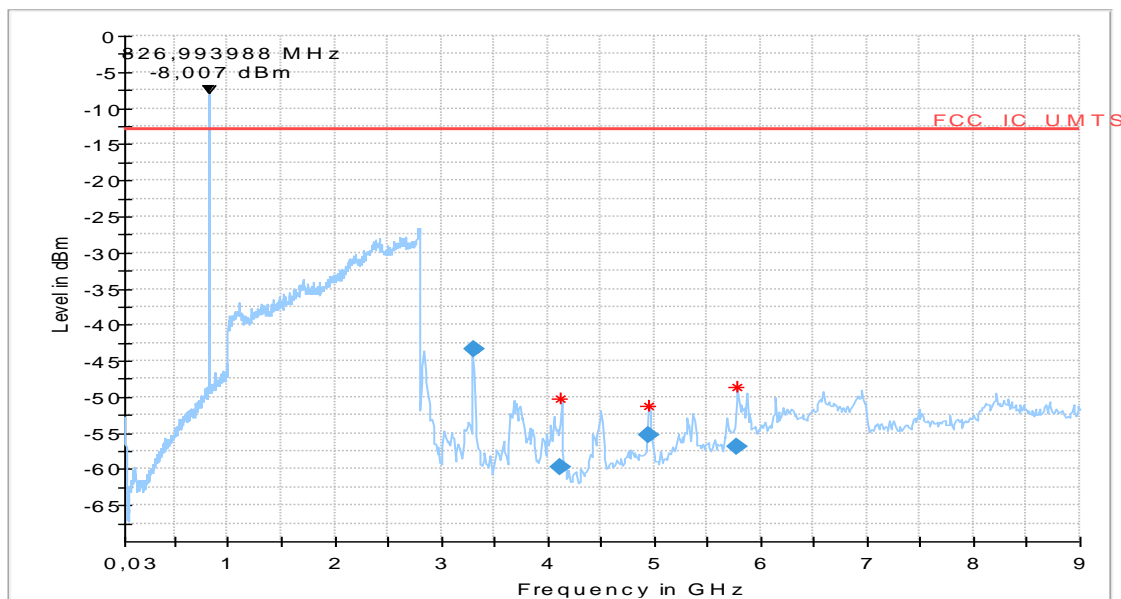
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132(fc = 826.6MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3301.773547	-13.00	30.40	1000.0	V	25.0	90.0	-95.8
4127.264529	-13.00	46.62	1000.0	V	31.0	90.0	-93.4
4952.494990	-13.00	42.20	1000.0	V	115.0	90.0	-90.9
5777.464930	-13.00	43.82	1000.0	V	90.0	90.0	-88.5

2.3. Radiated emissions on FDD Band II band-edge

2.3.1. Internal antenna

9.21_BE_R_Ch9538

Common Information

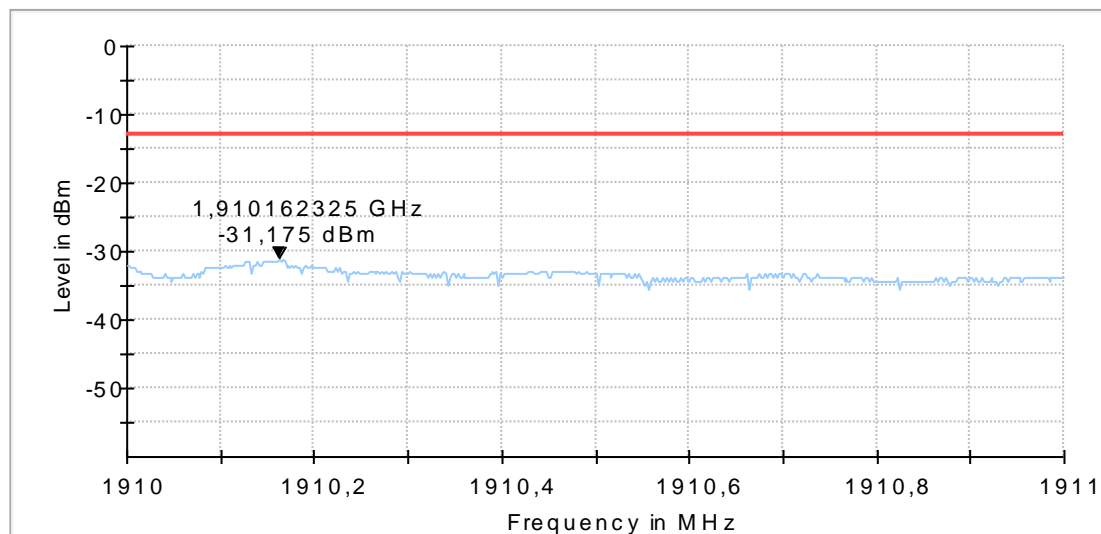
Test Description:	Radiated Band Edge Compliance UMTS-FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



2.3.2. External antenna

Diagram No.: 9.22_BE_R_Ch9262

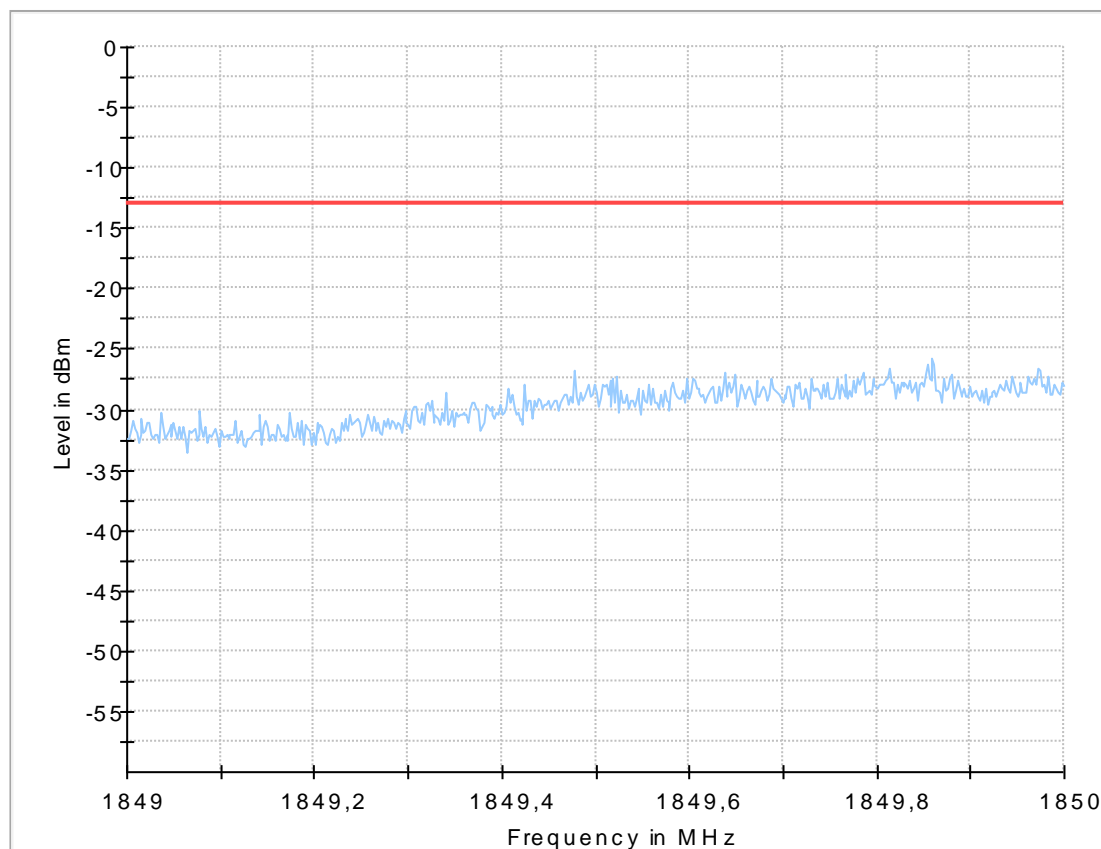
Common Information

Test Description:	06.01.2016 14:04:20 Radiated Band Edge Compliance UMTSFDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test specification:	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



2.4. Radiated emissions on FDD Band V band-edge

2.4.1. Internal antenna

9.51_BE_R_Ch4233

Common Information

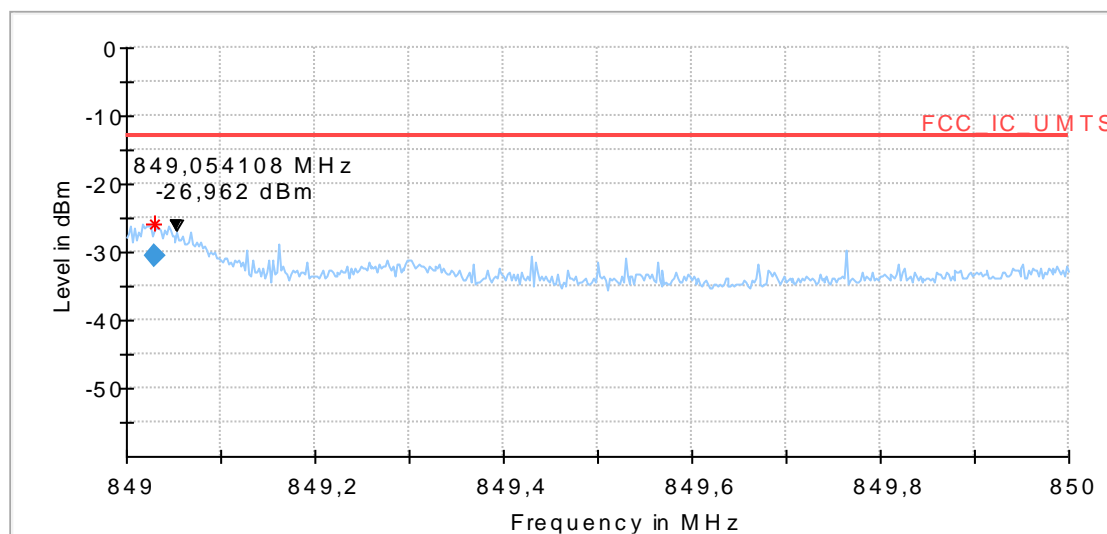
Test Description:	Band-Edge I - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 f= 848 Mhz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
849.029990	-13.00	17.61	500.0	H	189.0	90.0	-76.0

2.4.2. External antenna**9.52_BE_R_Ch4132****Common Information**

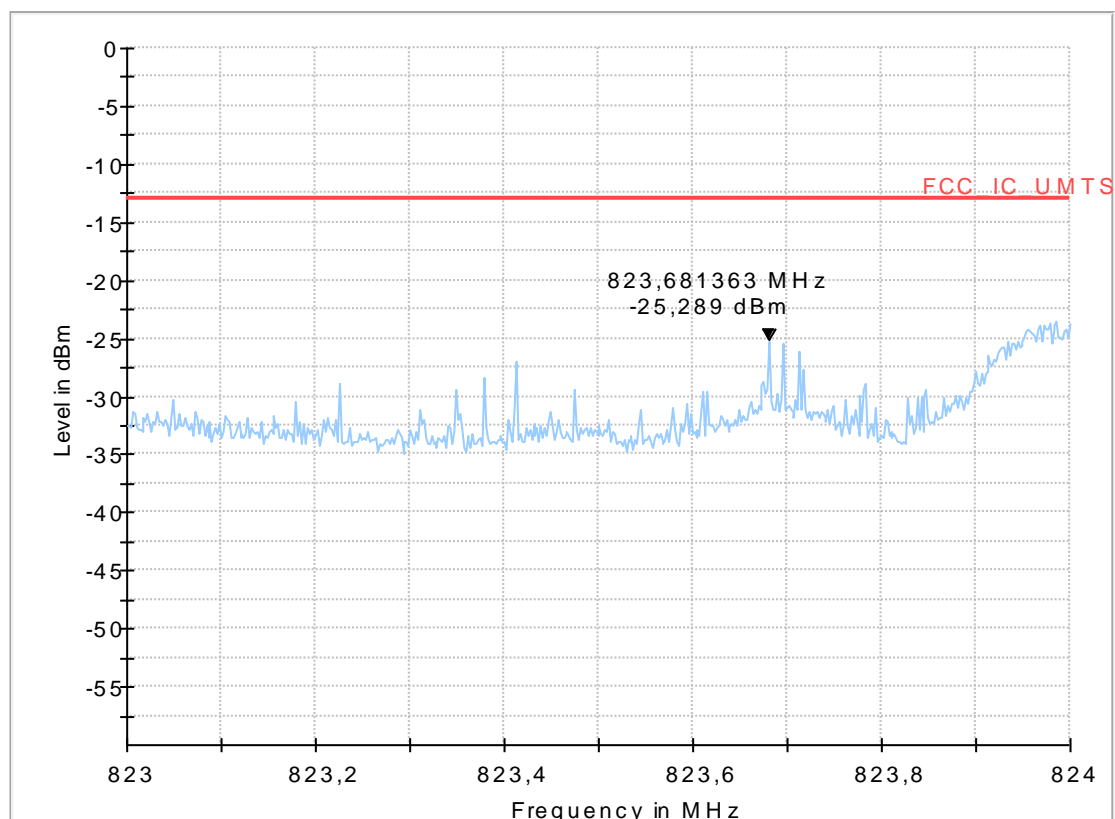
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132($f_c = 826.6\text{MHz}$)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Hla/KMo

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3. Measurement diagrams for LTE technology

3.1. Spurious emissions radiated (LTE Band 2)

3.1.1. External antenna

8.20_RSE_R_CH18607_BW_1_4

Common Information

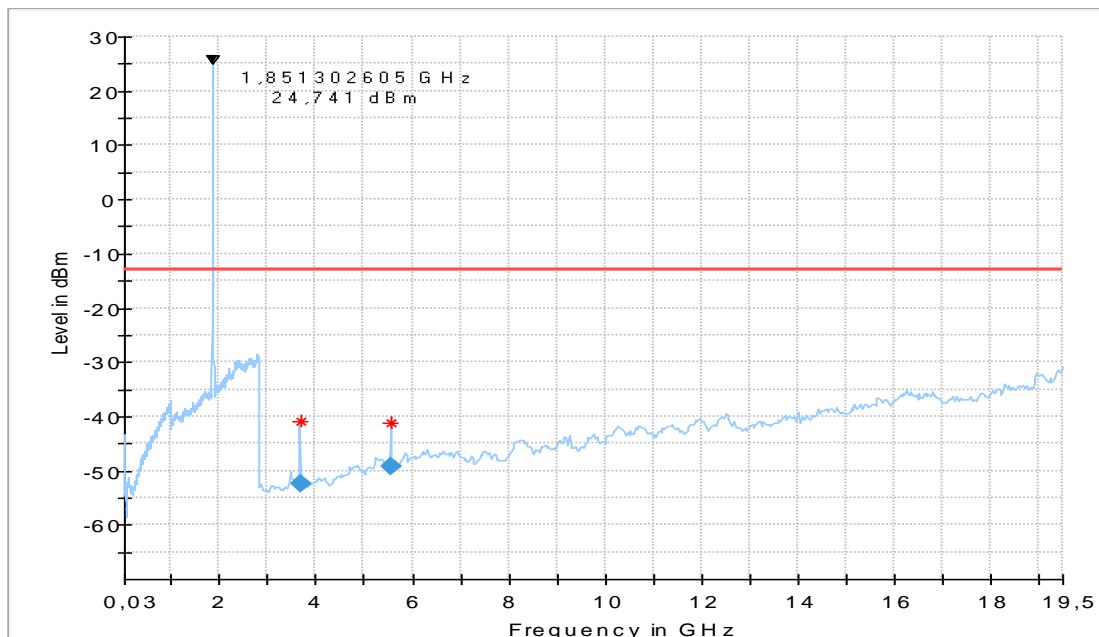
Test Description:	Radiated Spurious Emissions LTE FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18706(fc =1850.7MHz),BW=1.4 MHz, RB=1,
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Hla/KMo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3670.354710	-52.28	-13.00	39.28	10000.0	1000.000	155.0	V	343.0	90.0	-94.8
5545.076152	-49.32	-13.00	36.32	10000.0	1000.000	155.0	V	278.0	0.0	-89.9

3.1.2. Internal antenna

8.22_RSE_R_Ch19193_BW_1_4_QPSK

Common Information

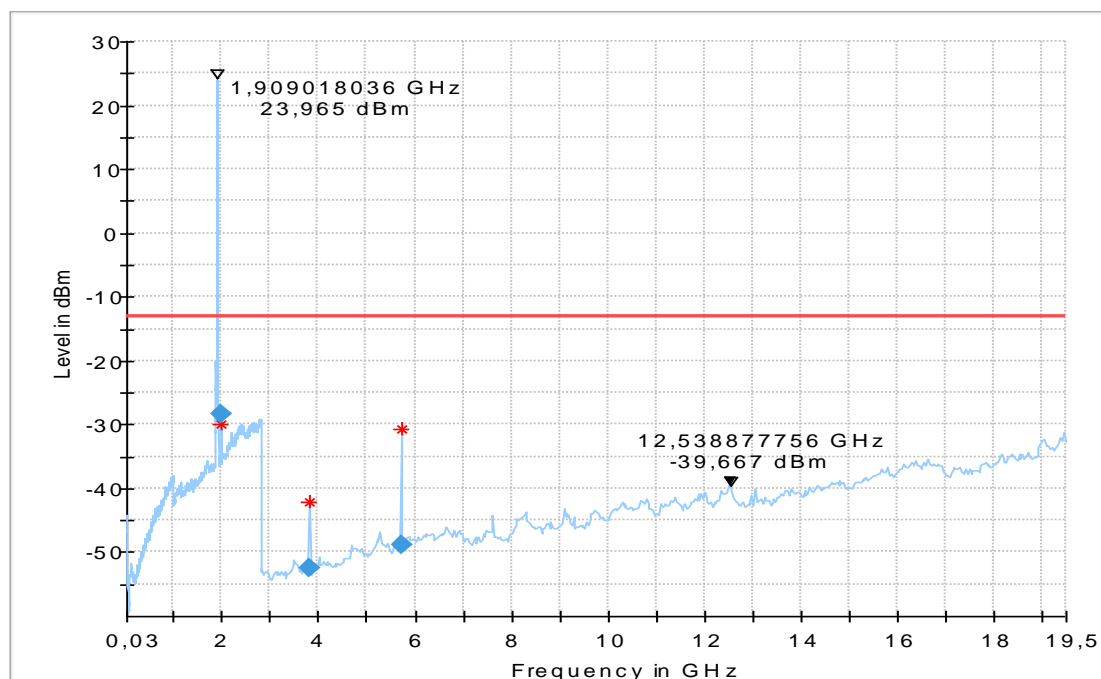
Test Description:	Radiated Spurious Emissions LTEII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193(fc =1909,3MHz), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1988.863728	-13.00	15.39	1000.0	H	263.0	90.0	-62.2
3804.282565	-13.00	39.40	10000.0	V	348.0	90.0	-95.2
5712.410822	-13.00	35.83	10000.0	V	288.0	0.0	-89.5

3.2. Spurious emissions radiated (LTE Band 4)

3.2.1. External antenna

8.40_RSE_R_CH19957_BW_1_4

Common Information

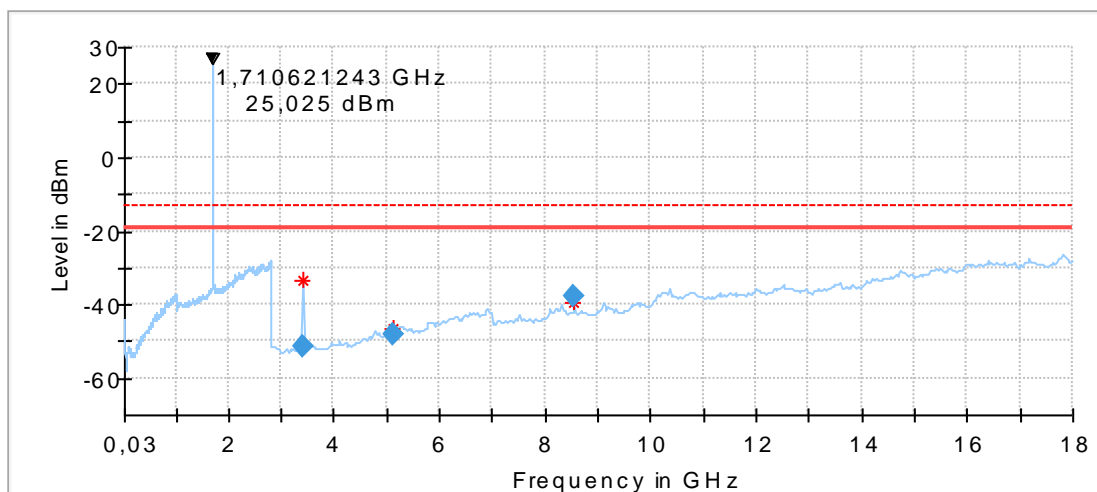
Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Comm. Link:	LTE Band 4
Operating Mode:	UE allocated channel 19957 (fc =1710.7MHz),BW=1.4 MHz, RB=1 LOW ,Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Kmo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3404.739479	-51.68	-19.00	32.68	1000.0	155.0	H	6.0	90.0	-95.3
5116.583166	-48.15	-19.00	29.15	1000.0	155.0	H	286.0	90.0	-90.7
8555.801604	-37.49	-19.00	18.49	1000.0	155.0	V	5.0	90.0	-82.8

3.2.2. Internal antenna

8.42_RSE_R_CH20393_BW_1_4

Common Information

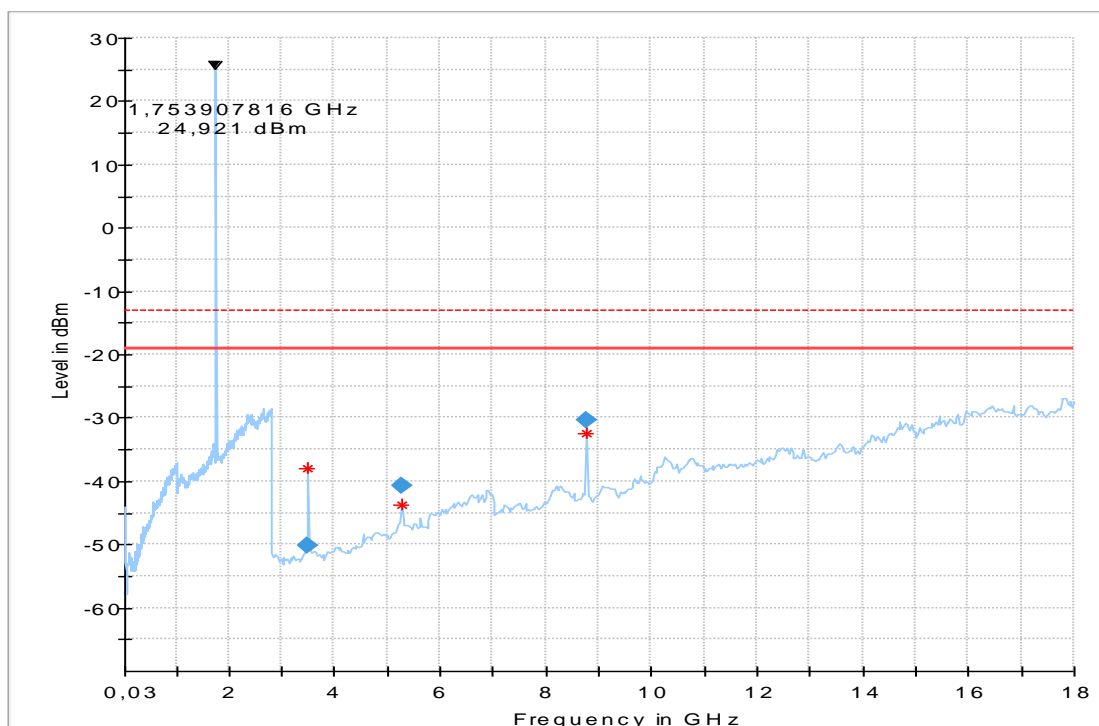
Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Comm. Link:	LTE Band 4
Operating Mode:	UE allocated channel 20393 (fc =1754.3MHz),BW=1.4 MHz, RB=1 High, Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3502.515031	-50.23	-19.00	31.23	1000.0	155.0	V	48.0	90.0	-93.5
5264.318637	-40.63	-19.00	21.63	1000.0	155.0	H	44.0	90.0	-88.5
8773.797595	-30.43	-19.00	11.43	1000.0	155.0	H	26.0	90.0	-83.1

3.3. Spurious emissions radiated (LTE Band 5)

3.3.1. External antenna

8.50_RSE_R_Ch20407_BW_1_4

Common Information

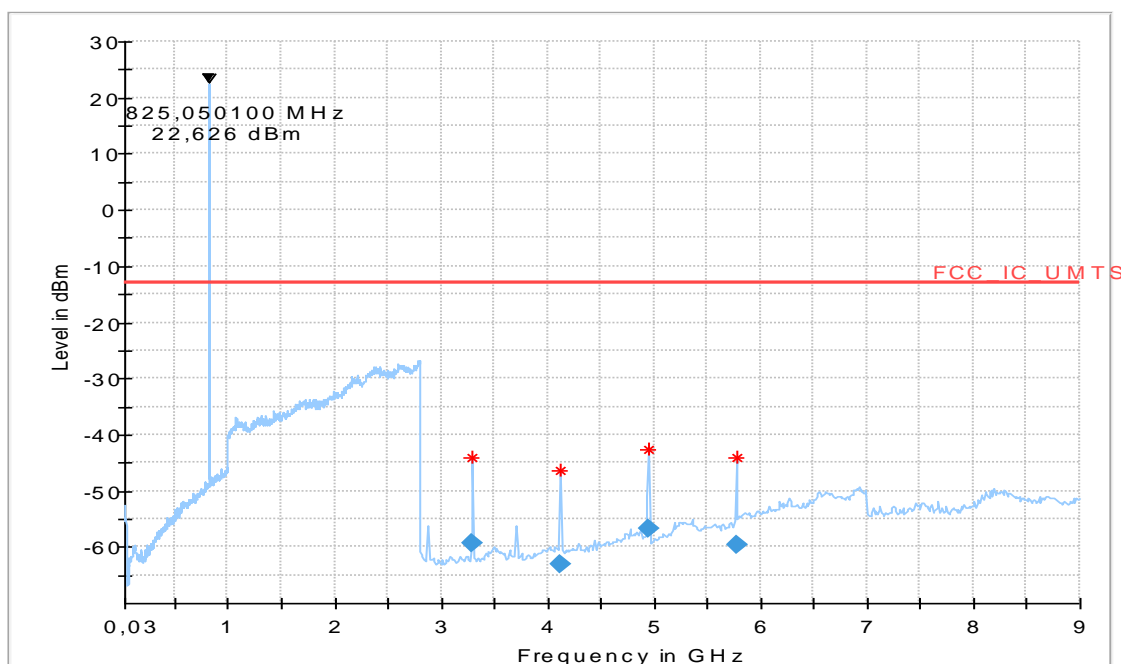
Test Description:	Radiated Spurious Emissions LTE V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1.4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr
Comment:	externe Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3297.064128	-13.00	46.27	1000.0	V	295.0	90.0	-95.7
4121.312625	-13.00	50.19	1000.0	V	42.0	90.0	-93.3
4945.581162	-13.00	43.79	1000.0	V	117.0	90.0	-90.9
5769.849699	-13.00	46.52	1000.0	V	119.0	90.0	-88.7

3.3.2. Internal antenna

8.52_RSE_R_Ch20643_LTE5

Common Information

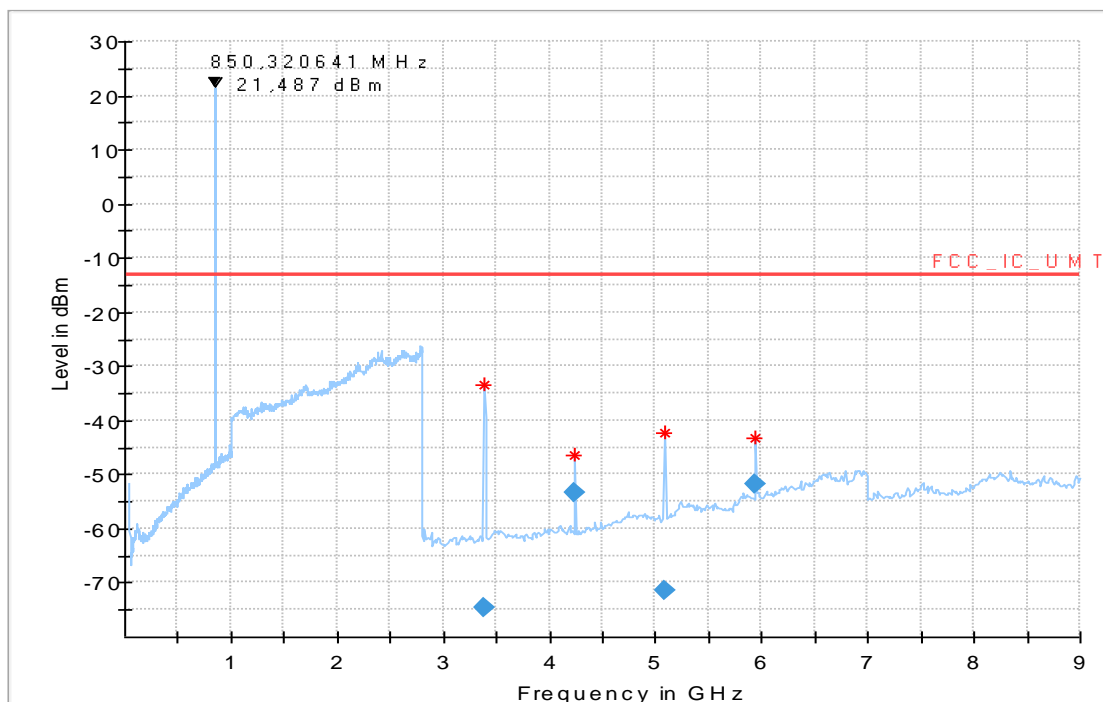
Test Description:	Radiated Spurious Emissions LTE V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643($f_c = 848,3\text{MHz}$, $BW=10\text{ MHz}$, $RB=1$, High, QPSK)
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3383.577154	-13.00	61.55	1000.0	V	317.0	90.0	-95.5
4243.817635	-13.00	40.22	1000.0	V	44.0	90.0	-93.5
5087.825652	-13.00	58.50	1000.0	V	160.0	90.0	-90.9
5941.332665	-13.00	38.77	1000.0	V	110.0	90.0	-88.1

3.4. Spurious emissions radiated (LTE Band 17)

3.4.1. External antenna

8.171_RSE_R_CH23737_BW5_LTE17_External

Common Information

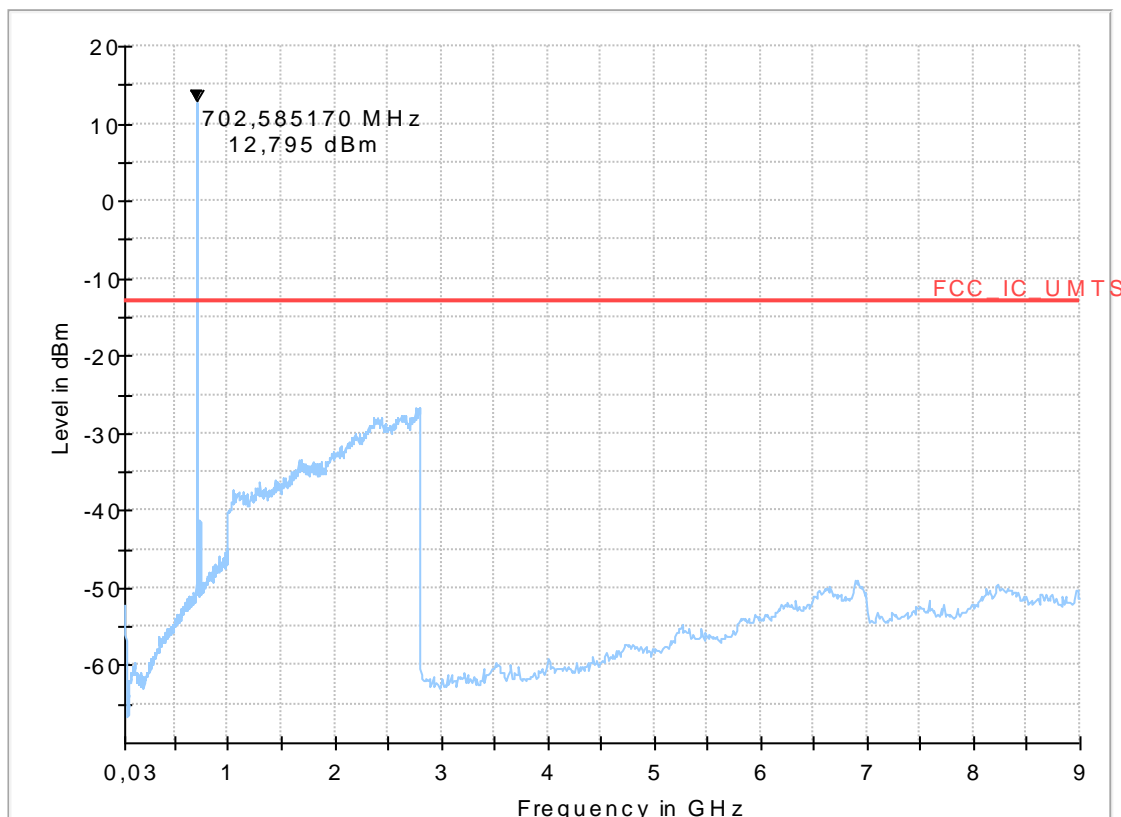
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 23737($f_c = 704,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	AHo
Comments	With External Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.4.2. Internal antenna

8.173_RSE_R_CH23843_BW5_LTE17

Common Information

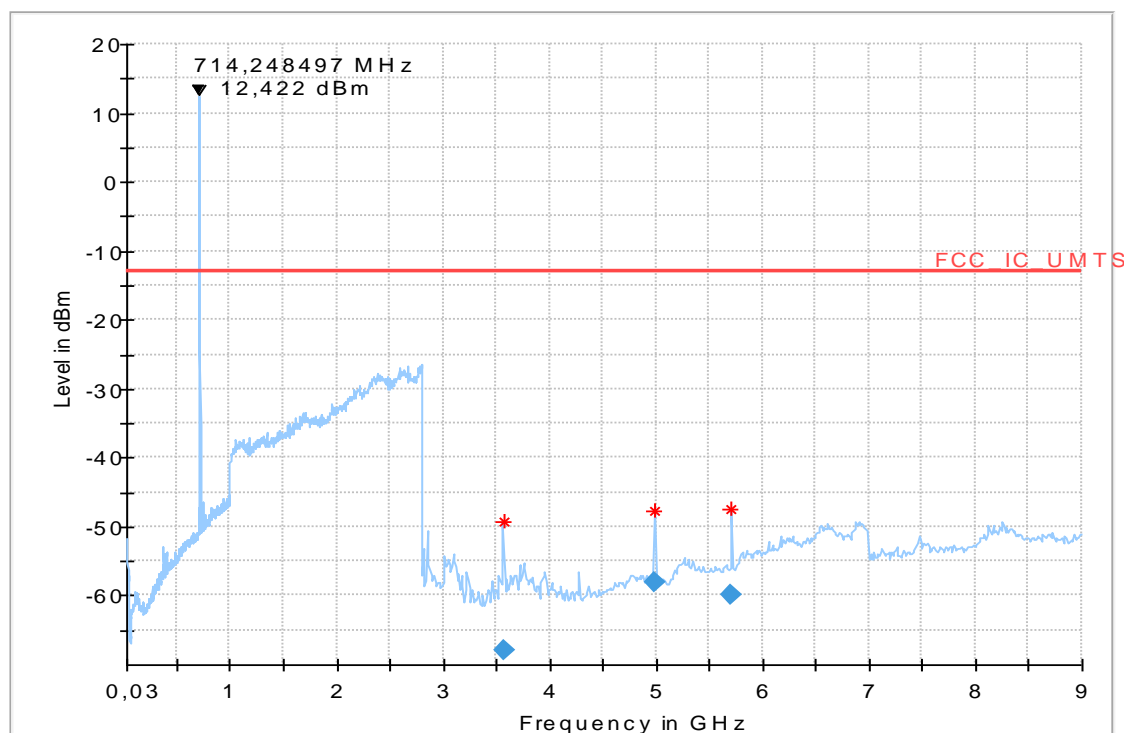
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 23843(fc =715,3MHz), BW=1.4 MHz, RB=1, High, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3565.295592	-13.00	54.91	1000.0	H	288.0	90.0	-94.2
4991.868737	-13.00	45.07	1000.0	V	111.0	90.0	-91.1
5705.205411	-13.00	46.86	1000.0	V	120.0	90.0	-89.6

3.5. Radiated emissions – band-edge (LTE Band 2)

3.5.1. External antenna – Low Band-Edge

3.5.1.1. Channel 18607, QPSK, 1RBs

9.20a_BE_R_Ch18607_1RB_low_BW_1_4_QPSK

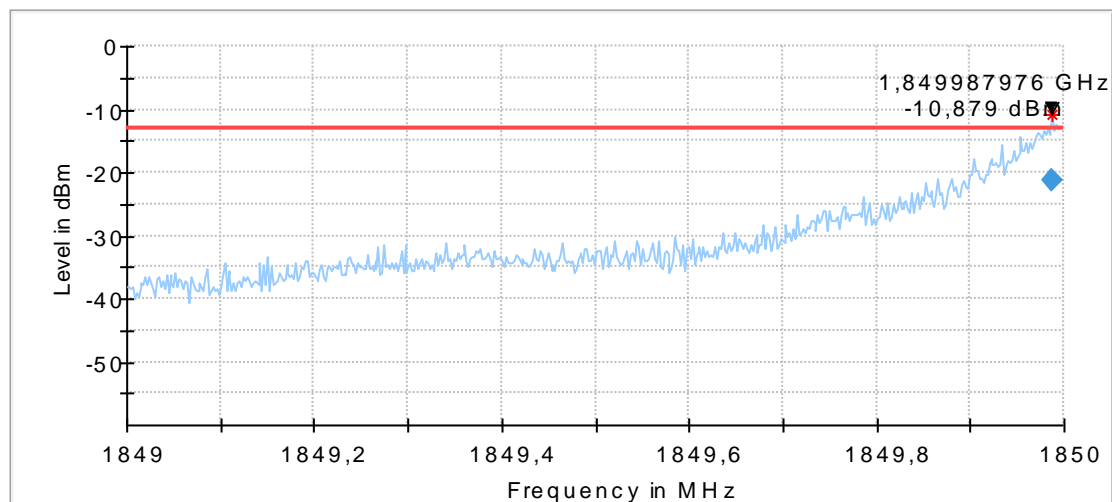
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607(fc =1850MHz), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.2. Channel 18607, 16-QAM, 1RBs

9.20b_BE_R_Ch18607_1RB_low_BW_1_4_QAM

Common Information

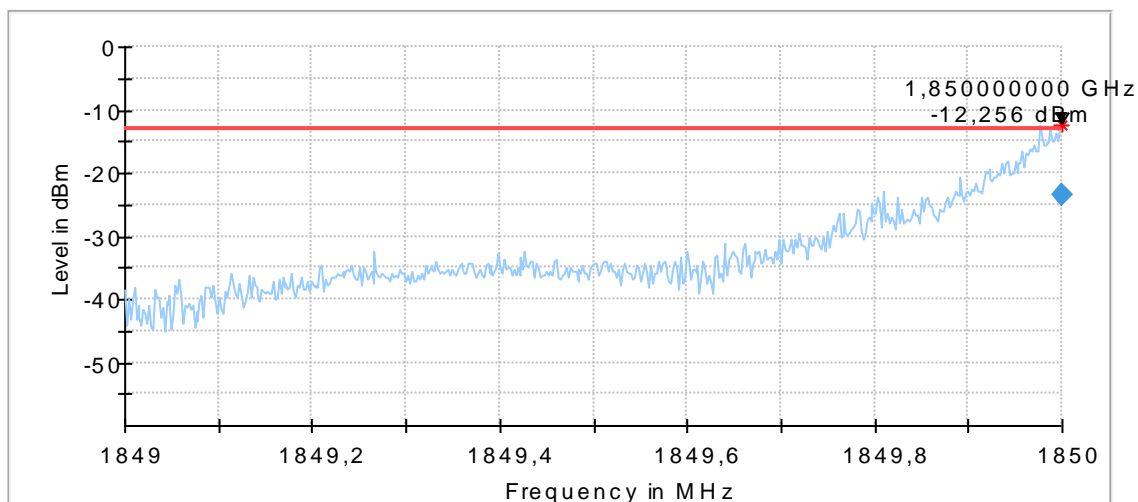
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607(fc =1850MHz), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.3. Channel 18607, QPSK, 6RBs**9.21a_BE_R_Ch18607_6RB_low_BW_1_4_QPSK****Common Information**

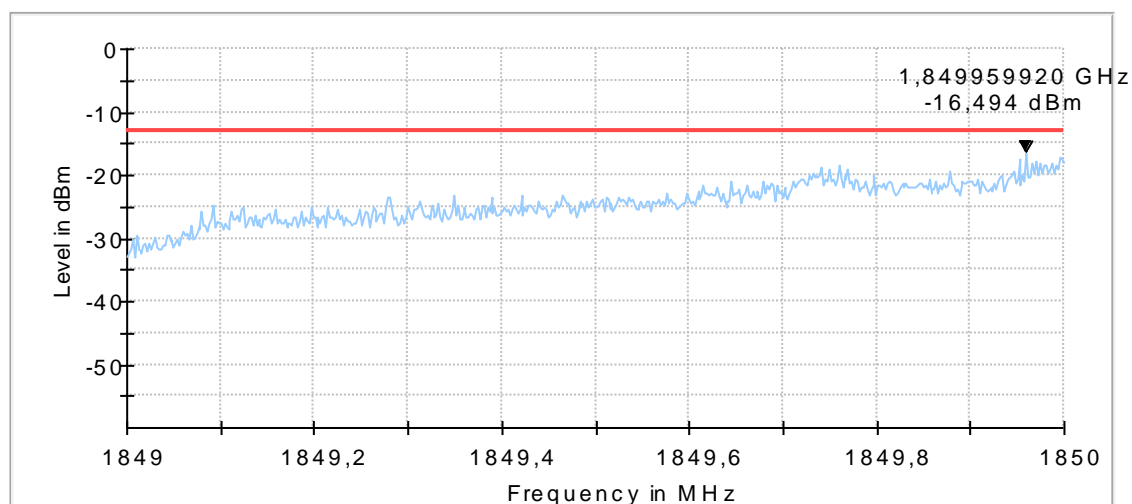
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607(fc =1850MHz), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.4. Channel 18607, 16-QAM, 6RBs**9.21b_BE_R_Ch18607_6RB_low_BW_1_4_QAM****Common Information**

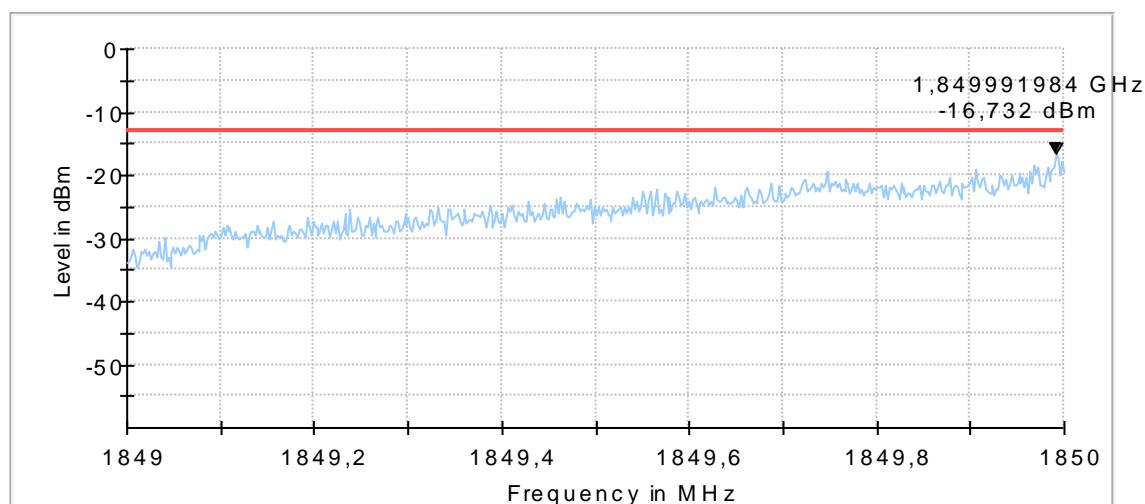
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607($f_c = 1850\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum

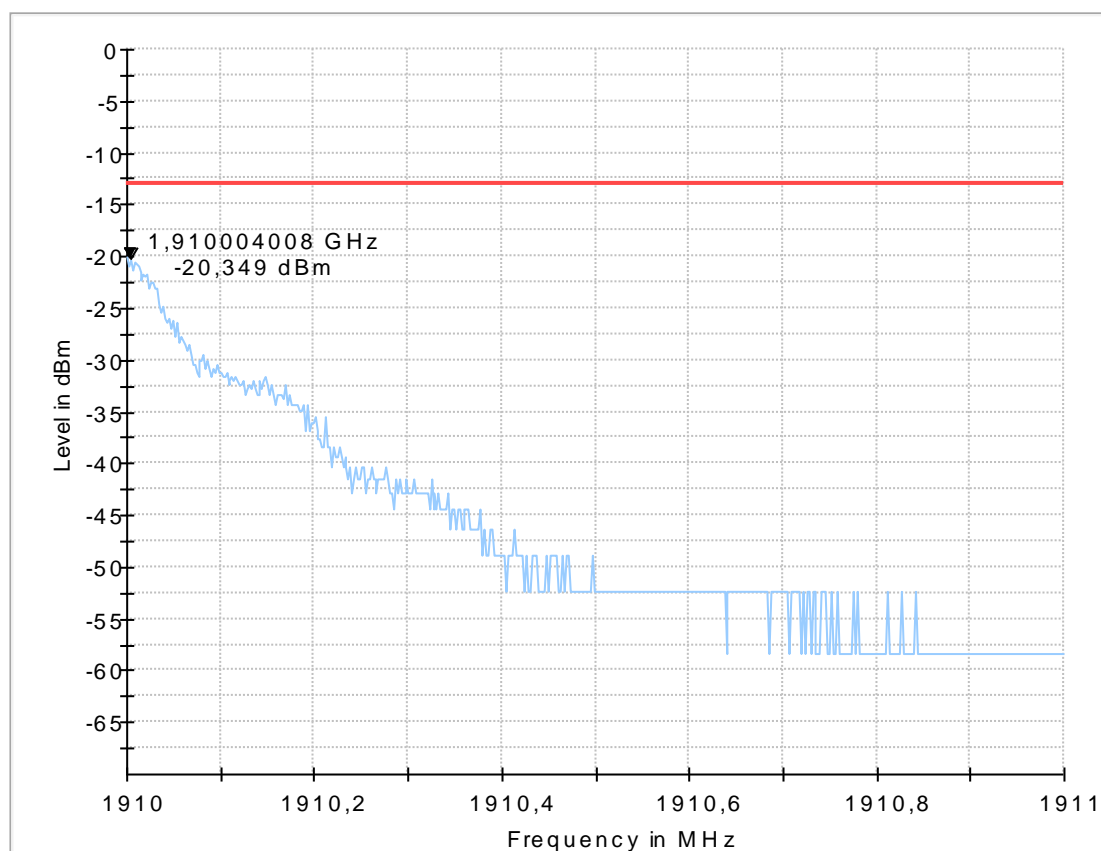


3.5.2. Internal antenna – High Band-edge**3.5.2.1. Channel 19193, QPSK, 1RBs****9.22a_BE_R_CH19193_1RB_high_QPSK****Common Information**

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193(fc =1909,3MHz), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.5.2.2. Channel 19193, 16-QAM, 1RBs

9.22b_BE_R_CH19193_1RB_high_QAM

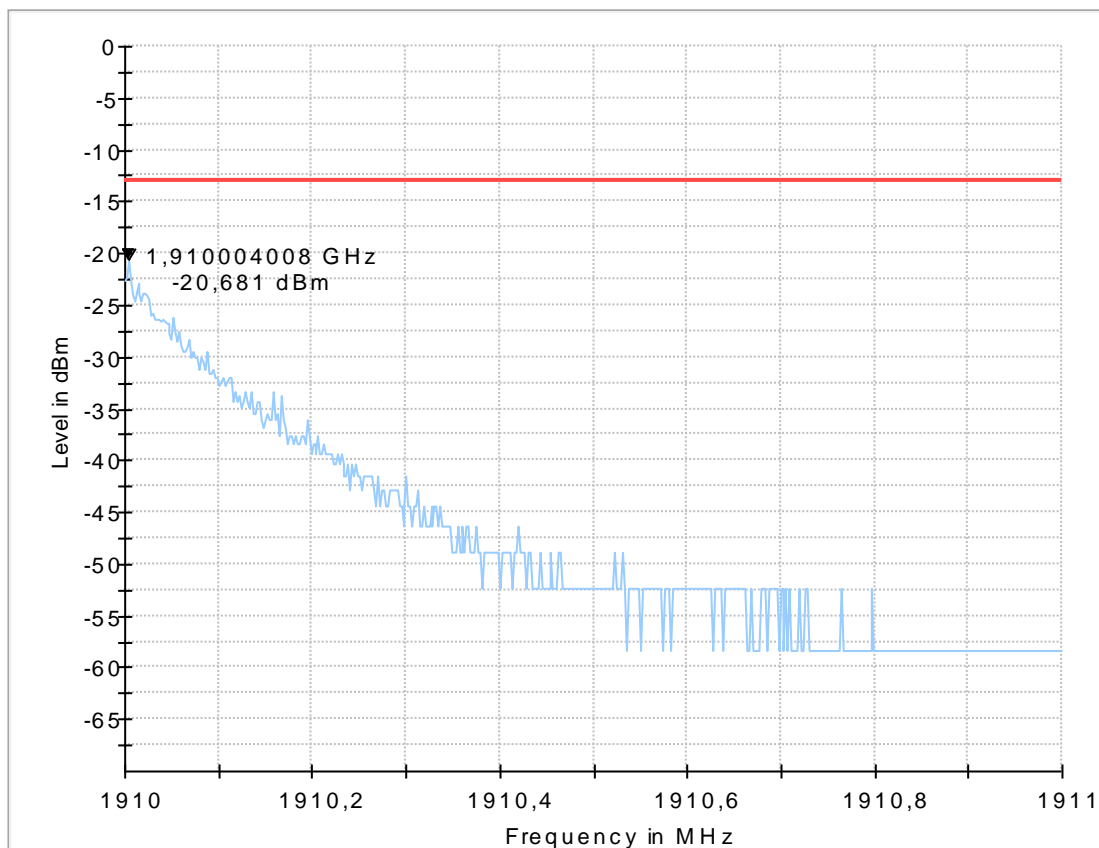
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193($f_c = 1909,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLa
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

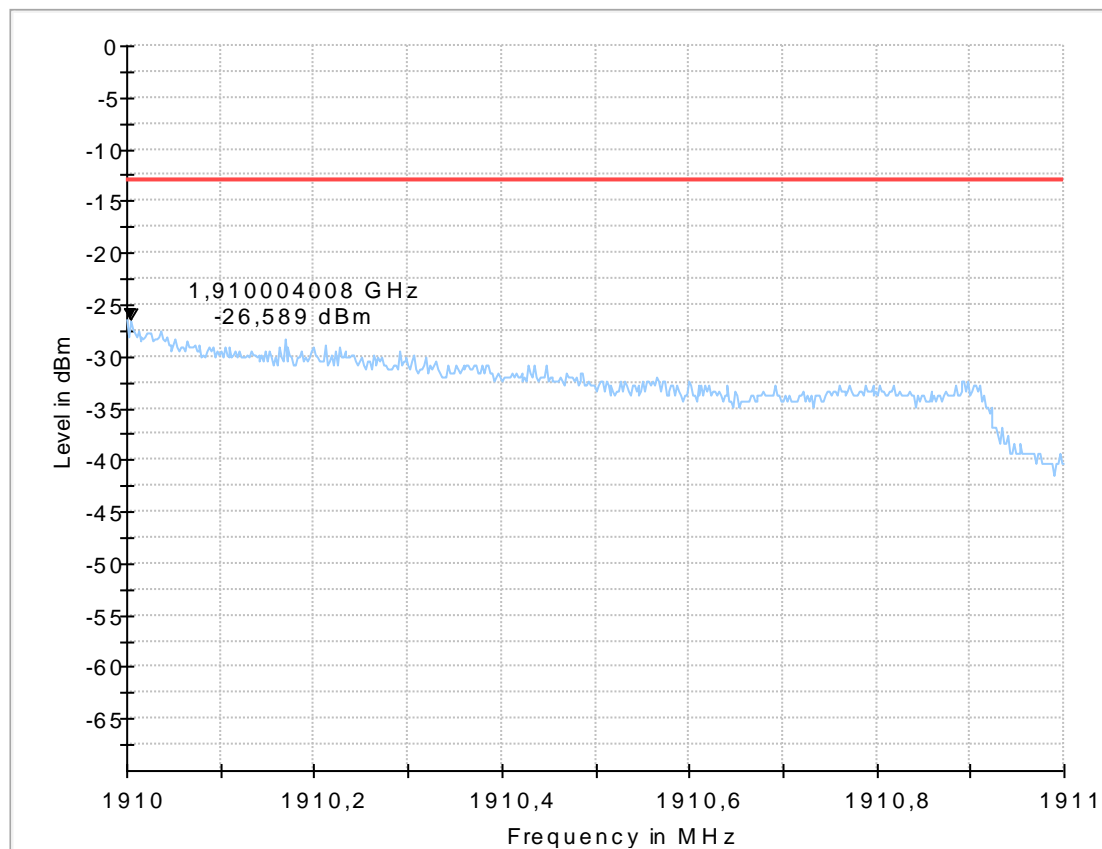


3.5.2.3. Channel 19193, QPSK, 6RBs**Diagram No.: 9.23a_BE_R_CH19193_6RB_BW_1_4_QPSK****Common Information**

Test Description:	12.01.2016 11:45:01 Radiated Band Edge Compliance LTE IV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR), EMC32 V9.21.0
Test specification:	FCC Part 24
Operating Mode:	UE allocated channel 19193(fc =1909,3MHz), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLa
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.5.2.4. Channel 19193, 16-QAM, 6RBs

Diagram No.: 9.23b_BE_R_CH19193_6RB_BW_1_4_QAM

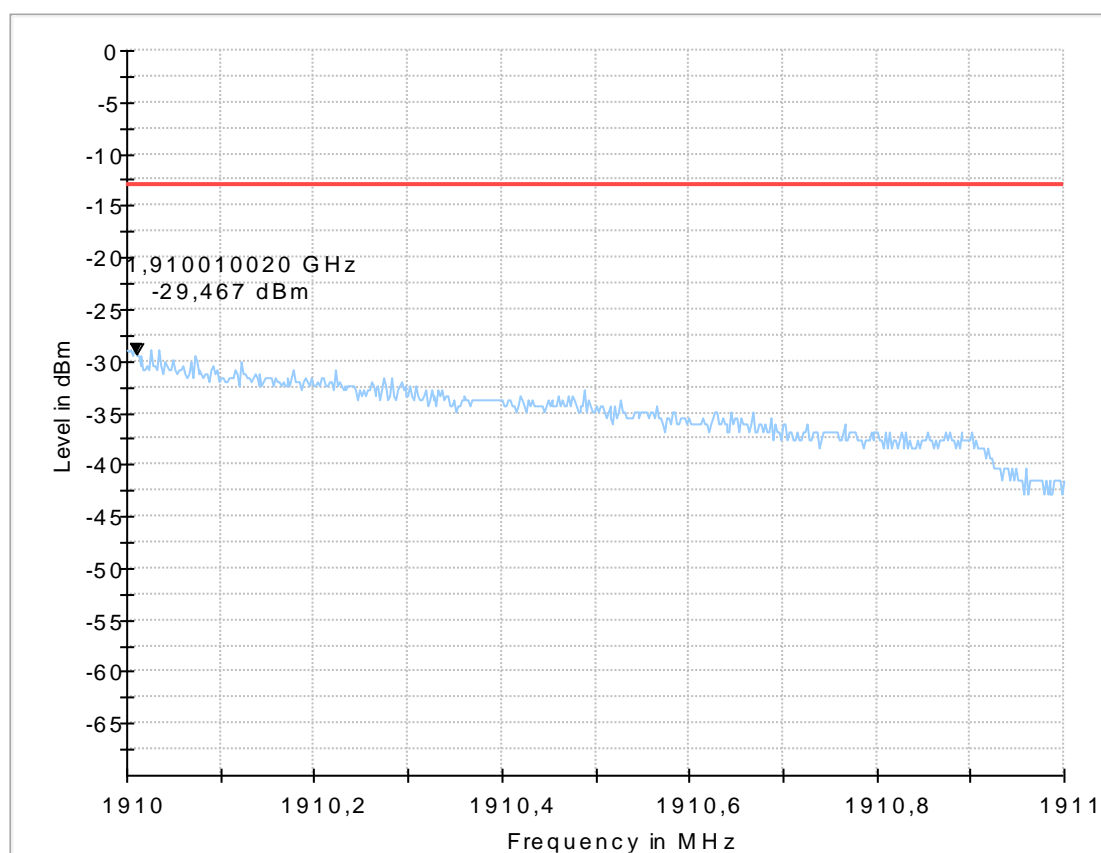
Common Information

	12.01.2016 11:34:09
Test Description:	Radiated Band Edge Compliance LTE IV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR), EMC32 V9.21.0
Test specification:	FCC Part 24
Operating Mode:	UE allocated channel 19193(fc =1909,3MHz), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6. Radiated emissions – band-edge (LTE Band 4)

3.6.1. External Antenna - Low Band-Edge

3.6.1.1. Channel 19957, QPSK, 1RBs

9.40_BE_R_CH19957_1RBlow_BW1_4_QPSK

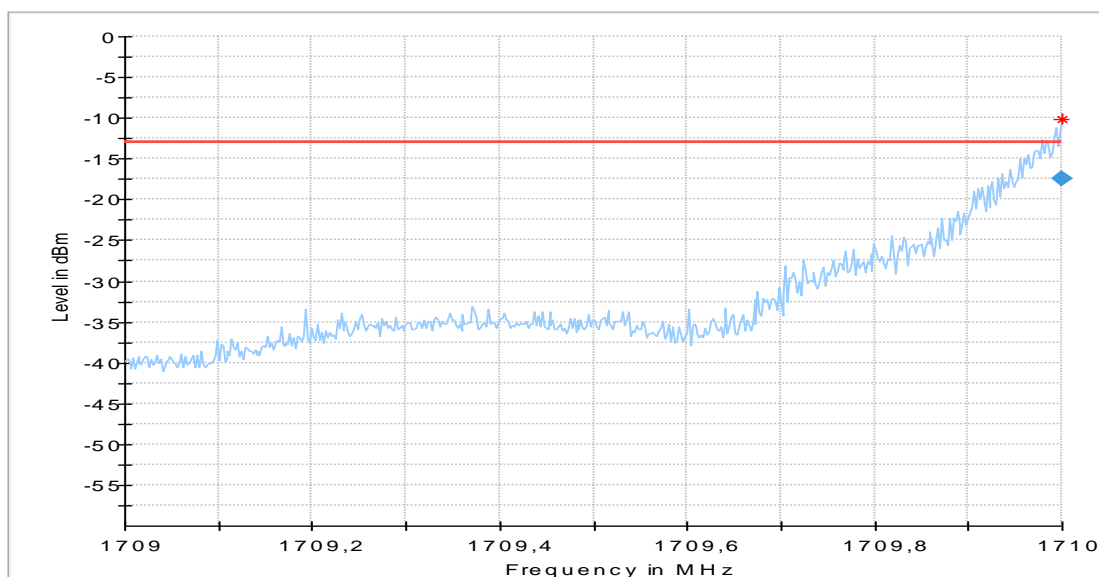
Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 1RB , low, QPSK
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1710.000000	-17.48	-13.00	4.48	100.0	20.000	155.0	H	252.0	90.0	-63.4

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
1710.000000	16:08:20 - 07.01.2016

3.6.1.2. Channel 19957, 16-QAM, 1RBs

9.40b_BE_R_CH19957_1RBlow_BW1_4_QAM

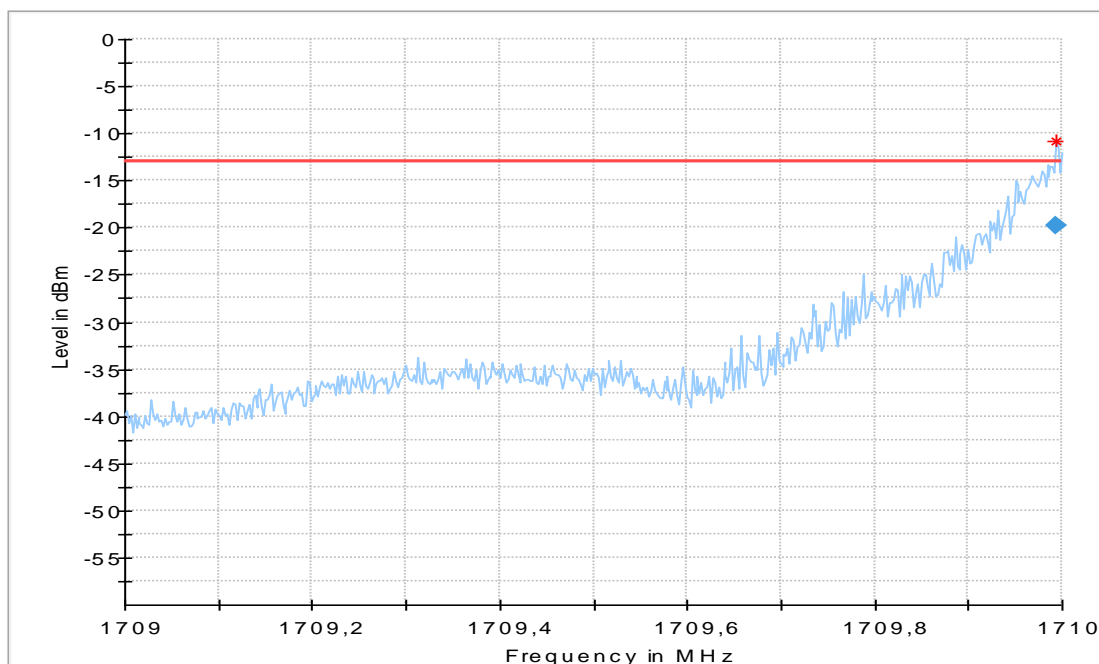
Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test SiteLocation	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 1RB , low, QAM
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margi n (dB)	Meas . Time	Bandwid h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr. (dB)
1709.993988	-19.83	-13.00	6.83	100.0	20.000	155.0	H	251.0	90.0	-63.3

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
1709.993988	16:30:49 - 07.01.2016

3.6.1.3. Channel 19957, QPSK, 6RBs

9.41a_BE_R_CH19957_6RB_BW1_4_QPSK

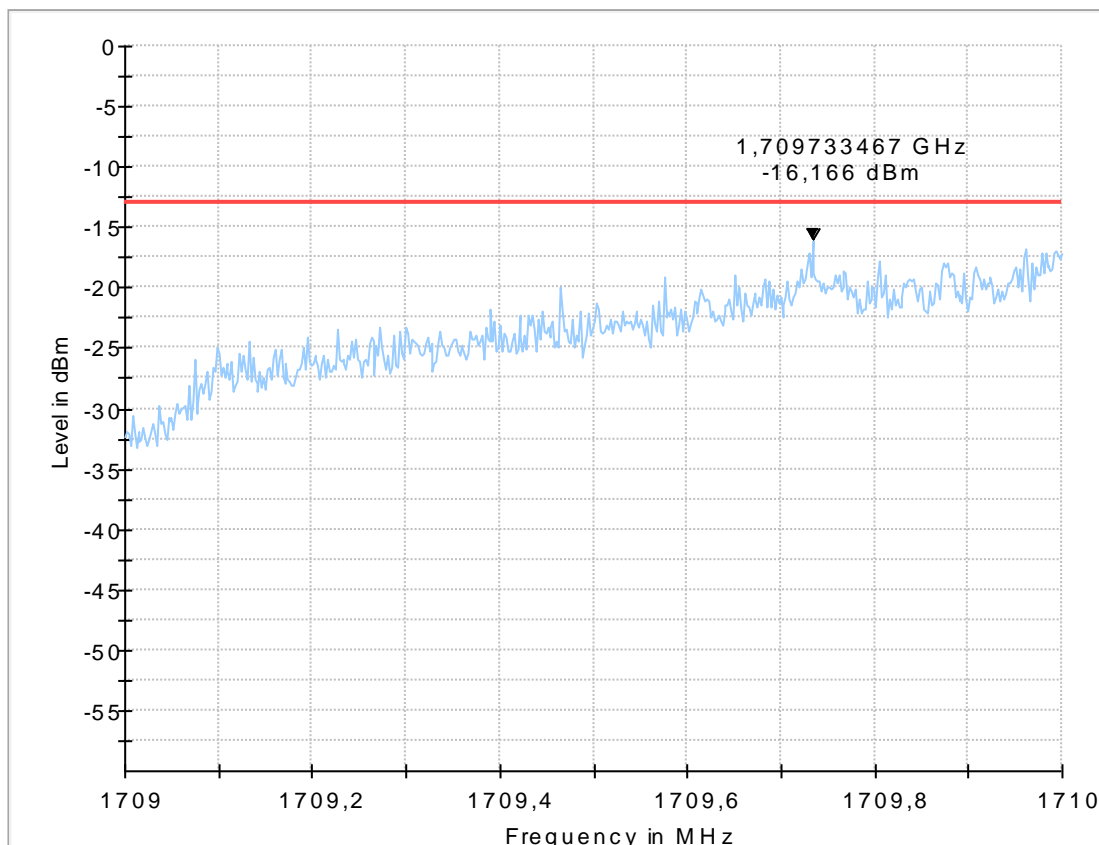
Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 6RB ,QPSK
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6.1.4. Channel 19957, 16-QAM, 6RBs

9.41b_BE_R_CH19957_16RB_BW1_4_QAM

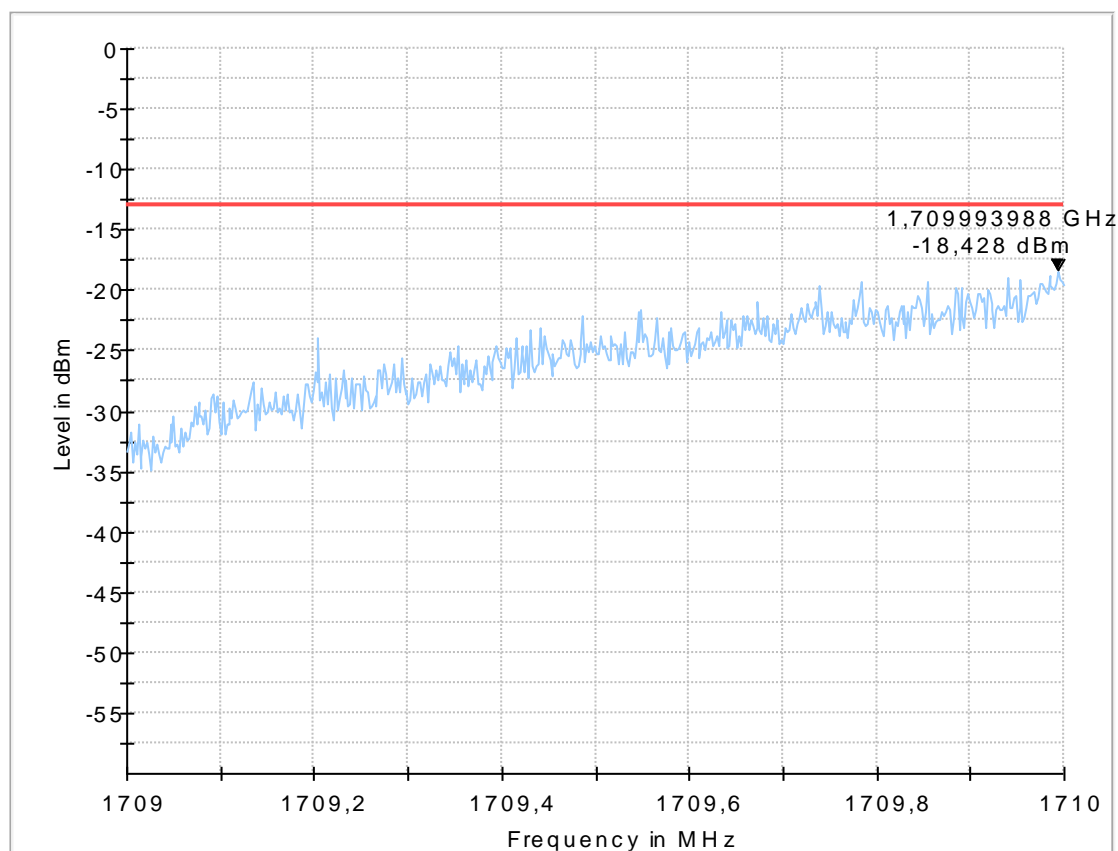
Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 16RB ,QAM
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6.2. Internal antenna - High Band-Edge

3.6.2.1. Channel 20393, QPSK, 1RBs

9.42a_BE_R_Ch20393_1RB_high_BW_1_4_QPSK

Common Information

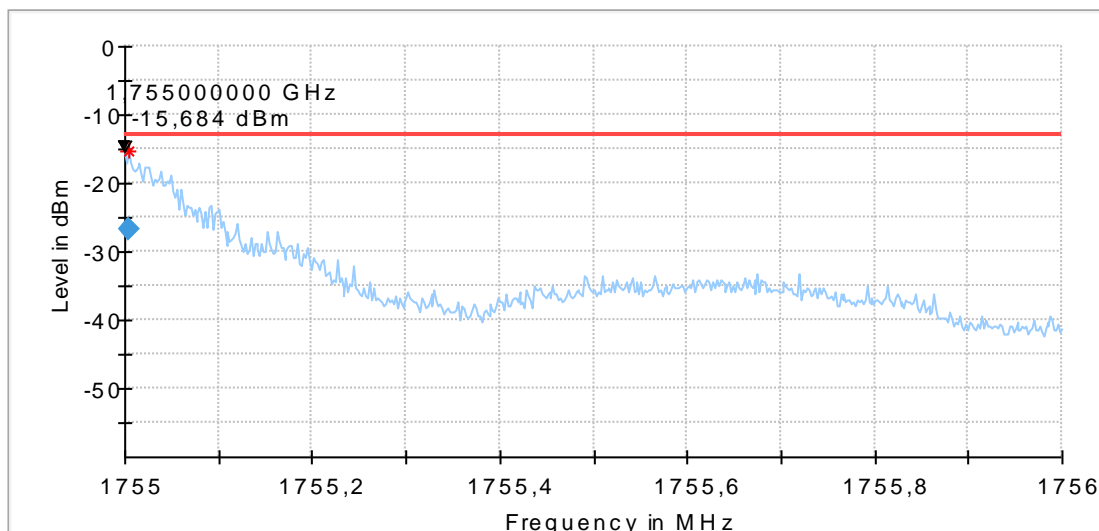
Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	LTE Band 4
Operating Mode	UE allocated channel 20393 (fc =1754.3MHz),BW=1.4 MHz, RB=1 high ,Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
1755.004008	-	13.89	100.0	155.0	V	321.0	45.0	-63.6	22:13:06 - 07.01.2016

3.6.2.2. Channel 20393, 16-QAM, 1RBs

9.42b_BE_R_Ch20393_1RB_high_BW_1_4_QAM

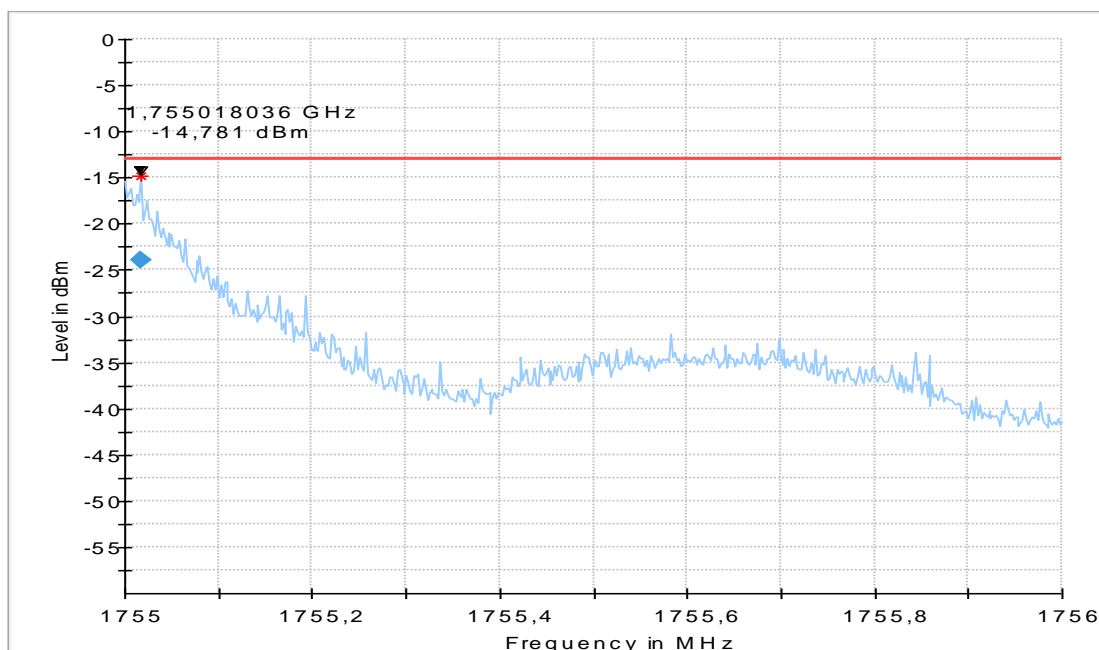
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), $BW=1,4\text{ MHz}$, $RB=1$, high, 16QAM
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1755.018036	-23.88	-13.00	10.88	100.0	20.000	155.0	V	305.0	90.0	-63.6

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
1755.018036	18:18:49 - 11.01.2016

3.6.2.3. Channel 20393, QPSK, 6RBs

9.43a_BE_R_Ch20393_6RB_high_BW_1_4_QPSK

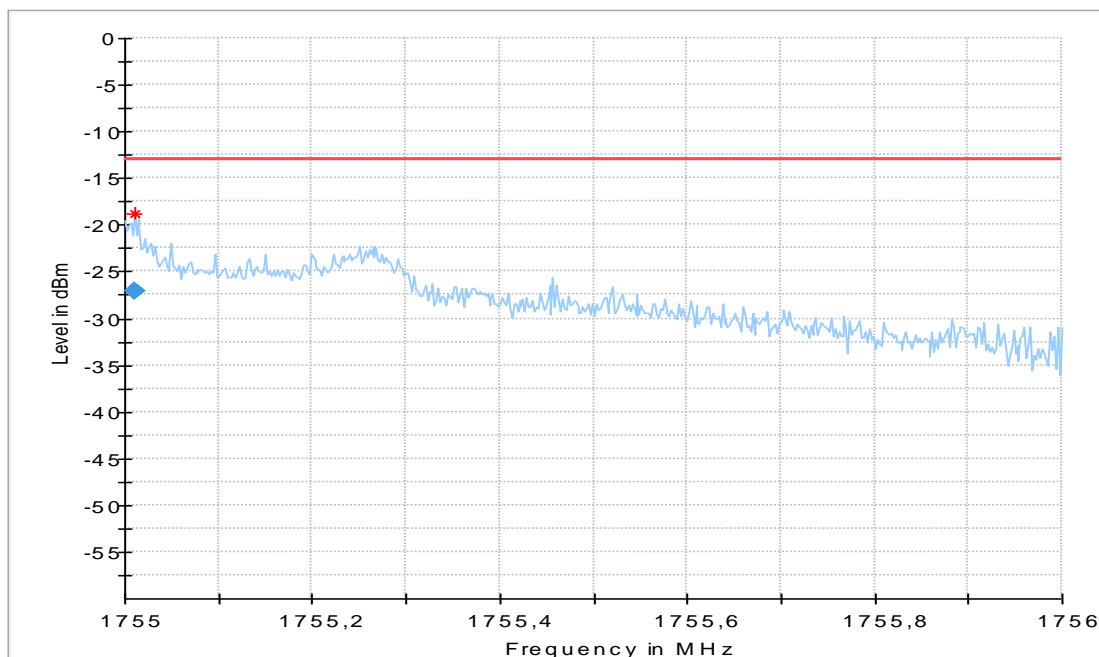
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), BW=1,4 MHz, RB=6, high, QPSK
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1755.010020	-27.11	-13.00	14.11	100.0	20.000	155.0	V	309.0	90.0	-63.6

(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment
1755.010020	18:45:45 - 11.01.2016

3.6.2.4. Channel 20393, 16-QAM, 6RBs

9.43b_BE_R_Ch20393_6RB_high_BW_1_4_QAM

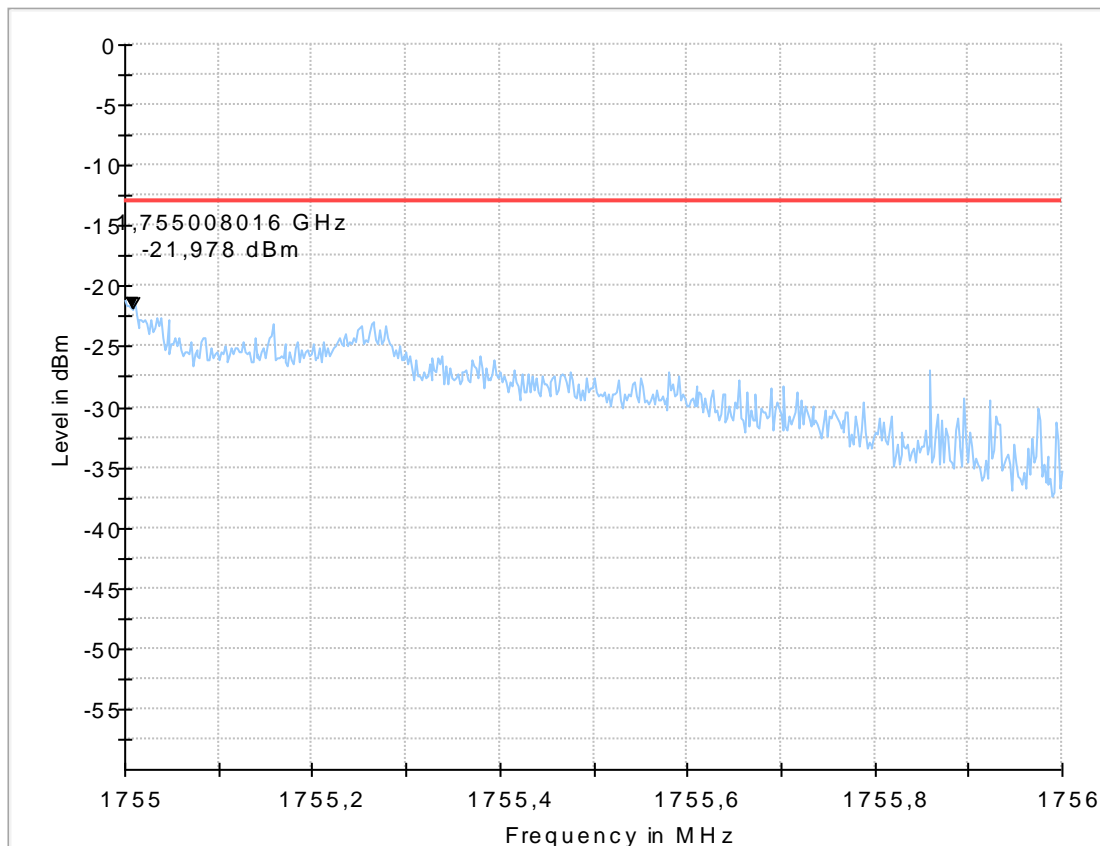
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), BW=1,4 MHz, RB=6, high, QAM
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



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

3.7.1. External antenna - Low Band-Edge

3.7.1.1. Channel 20407, QPSK, 1RBs

9.500a_BE_R_Ch20407_1RB_low_BW_1_4_QPSK

Common Information

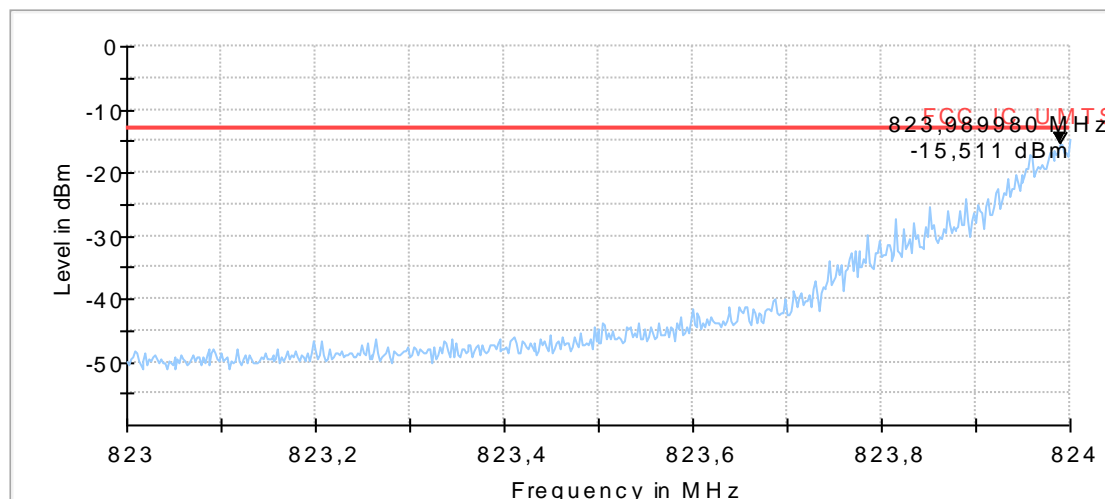
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



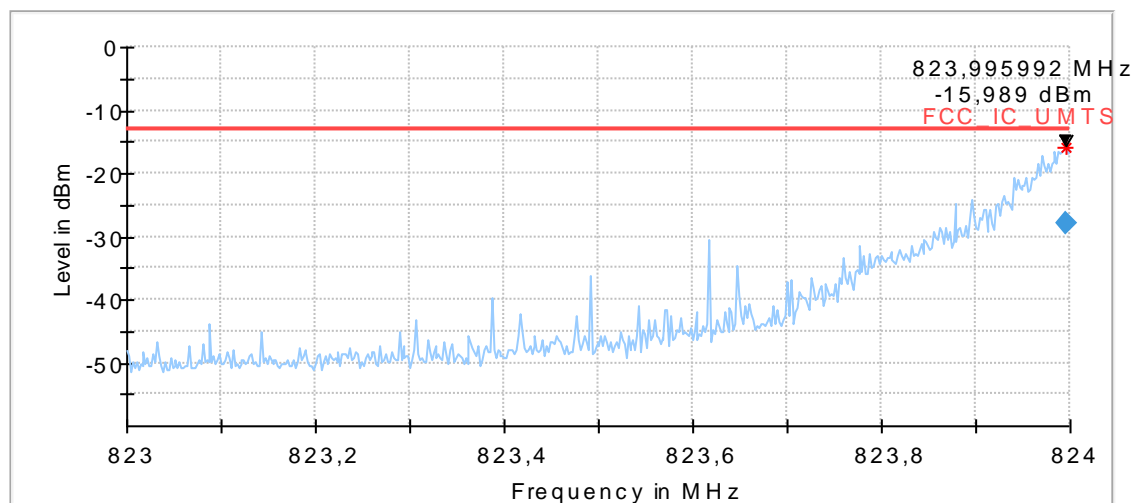
3.7.1.2. Channel 20407, 16-QAM, 1RBs**9.500b_BE_R_Ch20407_1RB_low_BW_1_4_QAM****Common Information**

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.1.3. Channel 20407, QPSK, 6RBs

9.501a_BE_R_Ch20407_6RB_low_BW_1_4_QPSK

Common Information

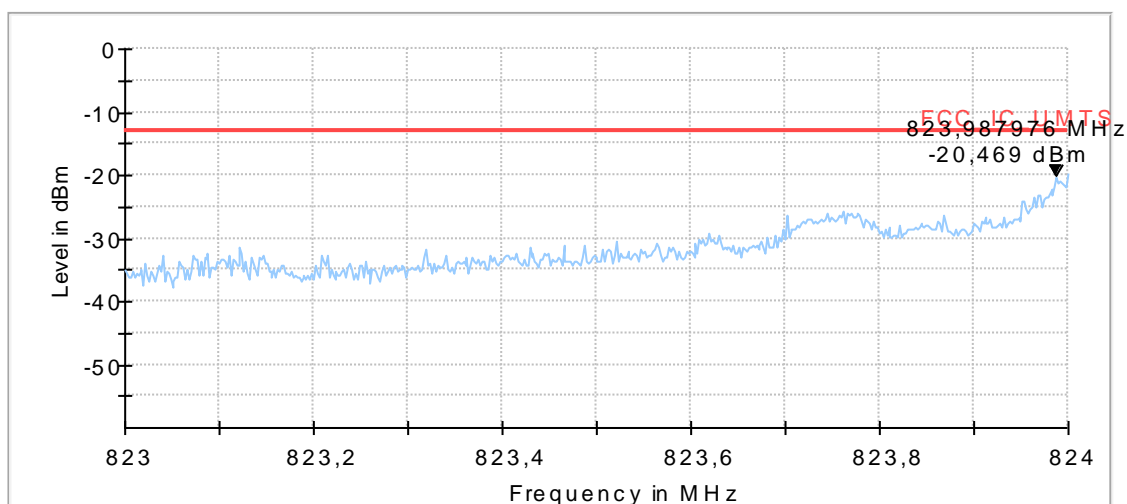
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c=824,7\text{MHz}$), BW=1,4 MHz, RB=6, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.1.4. Channel 20407, 16-QAM, 6RBs**9.501b_BE_R_Ch20407_6RB_low_BW_1_4_QAM****Common Information**

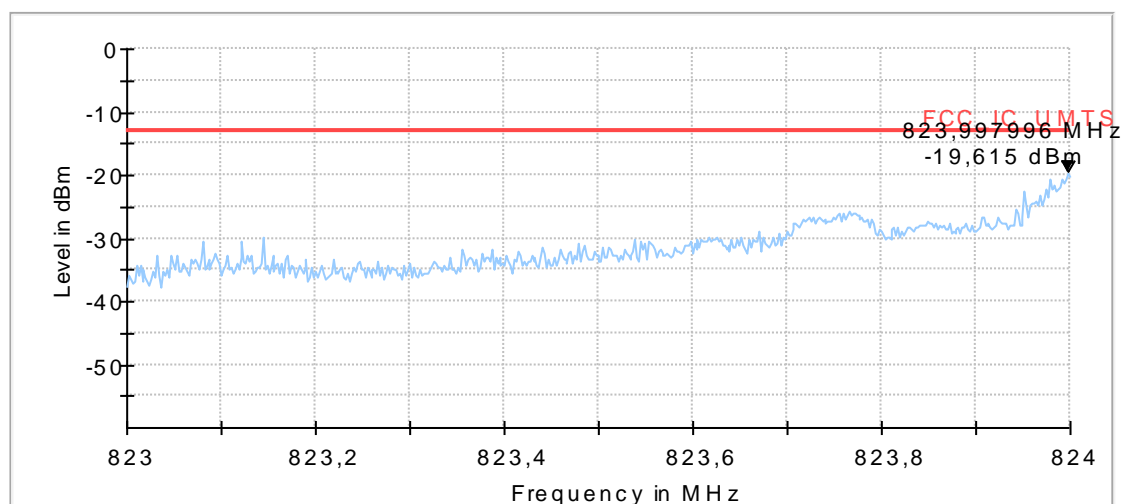
Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c=824,7\text{MHz}$), BW=1,4 MHz, RB=6, Low, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2. Internal antenna - High Band-Edge

3.7.2.1. Channel 20643, QPSK, 1RBs

9.502a_BE_R_Ch20643_1RB_high_BW_1_4_QPSK

Common Information

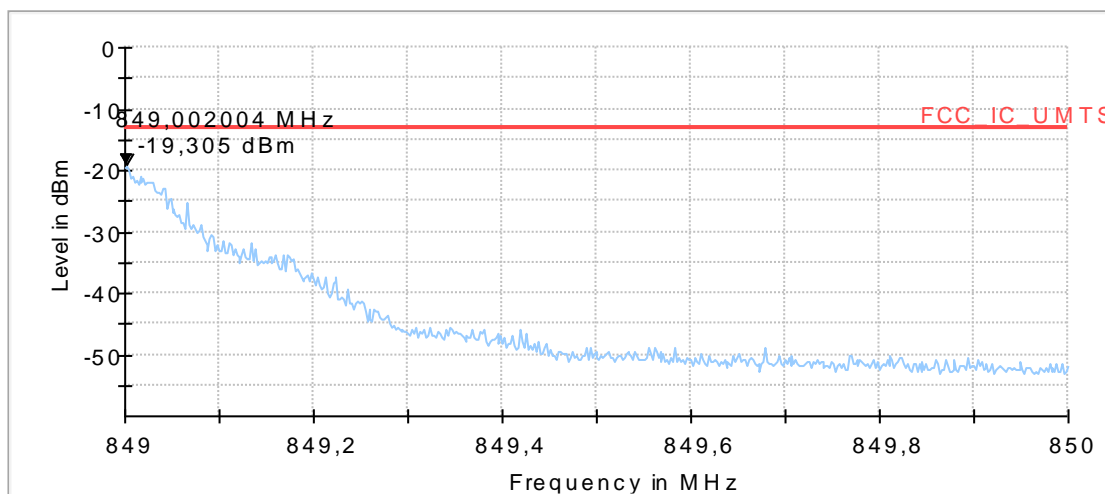
Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643(fc =848,3MHz), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.2. Channel 20643, 16-QAM, 1RBs

9.502b_BE_R_Ch20643_1RB_high_BW_1_4_QAM

Common Information

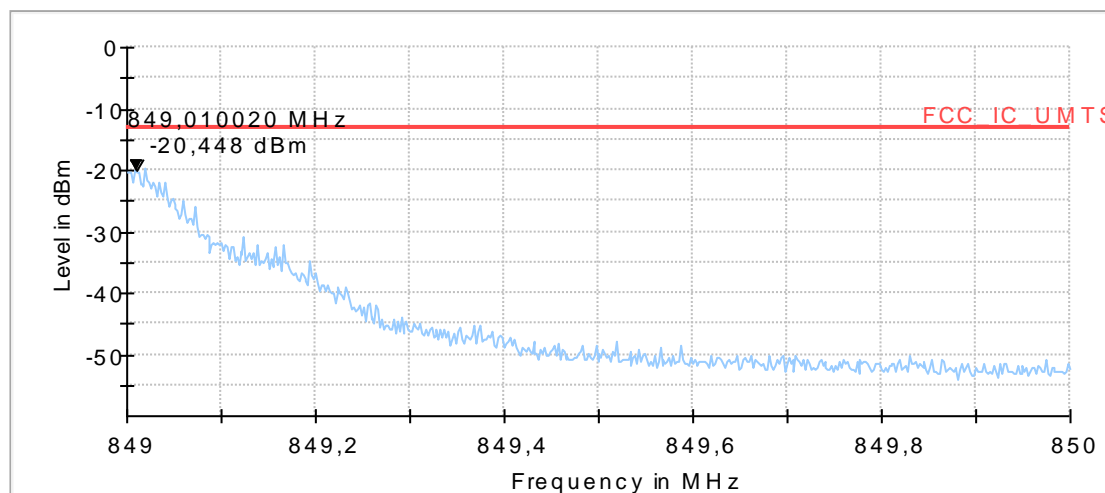
Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643(fc =848,3MHz), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.3. Channel 20643, QPSK, 6RBs**9.503a_BE_R_Ch20643_1RB_high_BW_1_4_QPSK****Common Information**

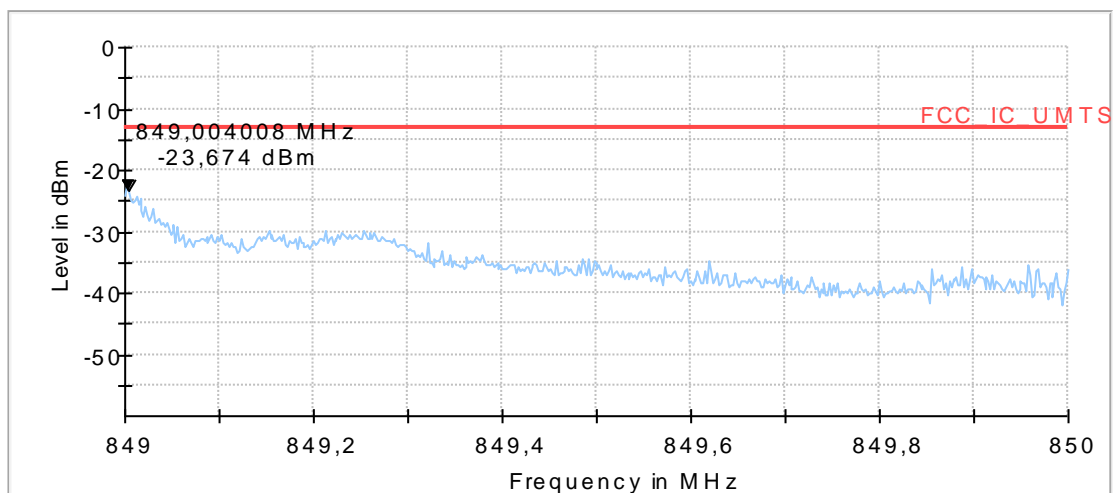
Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643($f_c=848,3\text{MHz}$), $BW=1,4\text{ MHz}$, $RB=6$, , QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.4. Channel 20643, 16-QAM, 6RBs

9.503b_BE_R_Ch20643_6RB_BW_1_4_QAM

Common Information

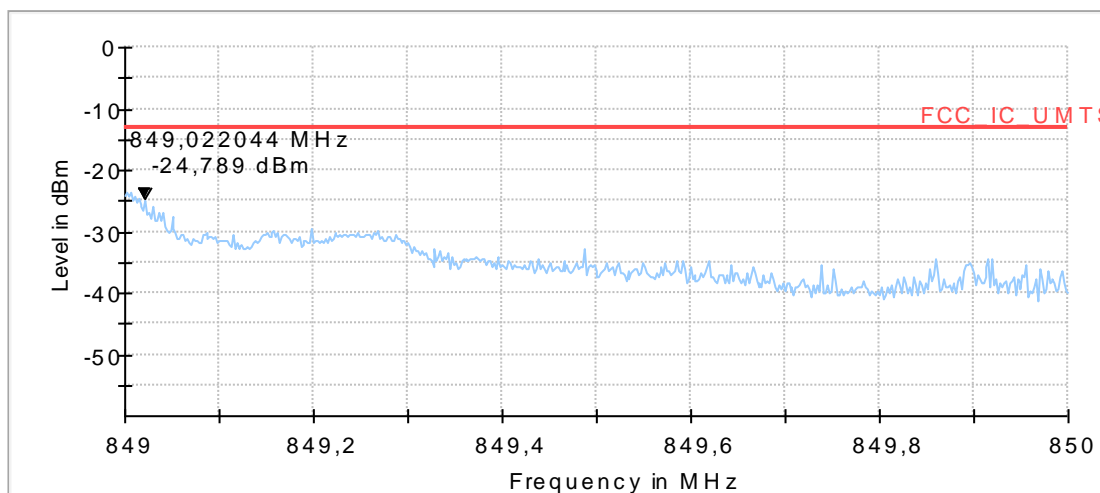
Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643(fc =848,3MHz), BW=1,4 MHz, RB=6, , QAM
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8. Radiated emissions – band-edge (LTE Band 17)

3.8.1. External antenna - Low Band-Edge

3.8.1.1. Channel 23755, QPSK, 1RBs

9.1701a_BE_R_CH23755_1RB_Low_QPSK_LTE17_External

Common Information

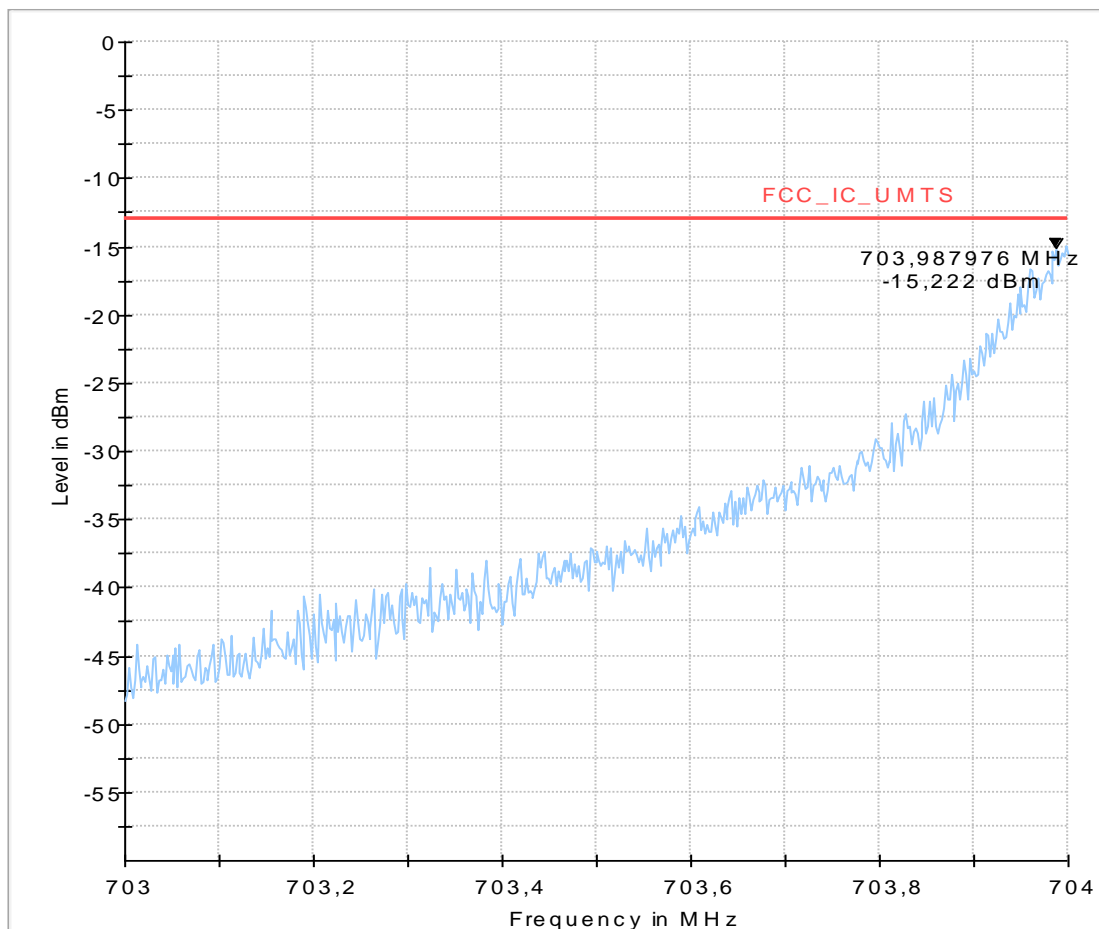
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.2. Channel 23755, 16-QAM, 1RBs

9.1701b_BE_R_CH23755_1RB_Low_16-QAM_LTE17_External

Common Information

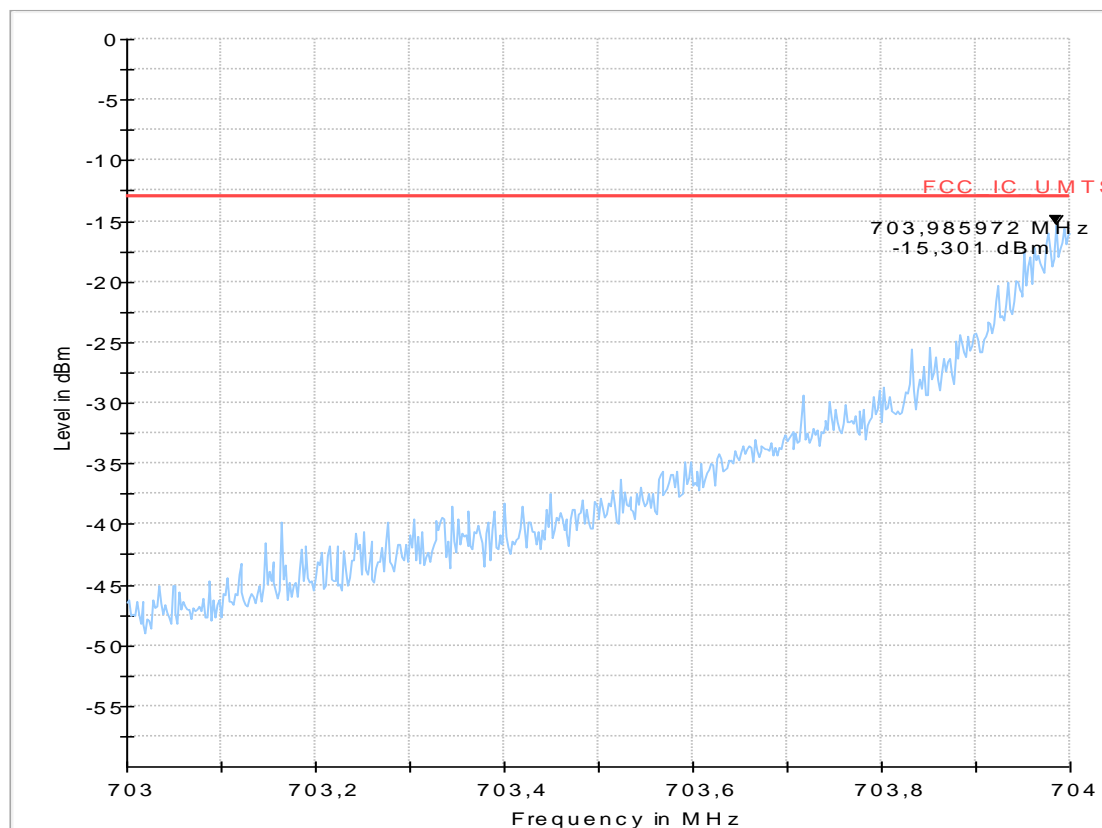
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.3. Channel 23755, QPSK, 25RBs**9.1702a_BE_R_CH23755_25RB_Low_QPSK_LTE17_External****Common Information**

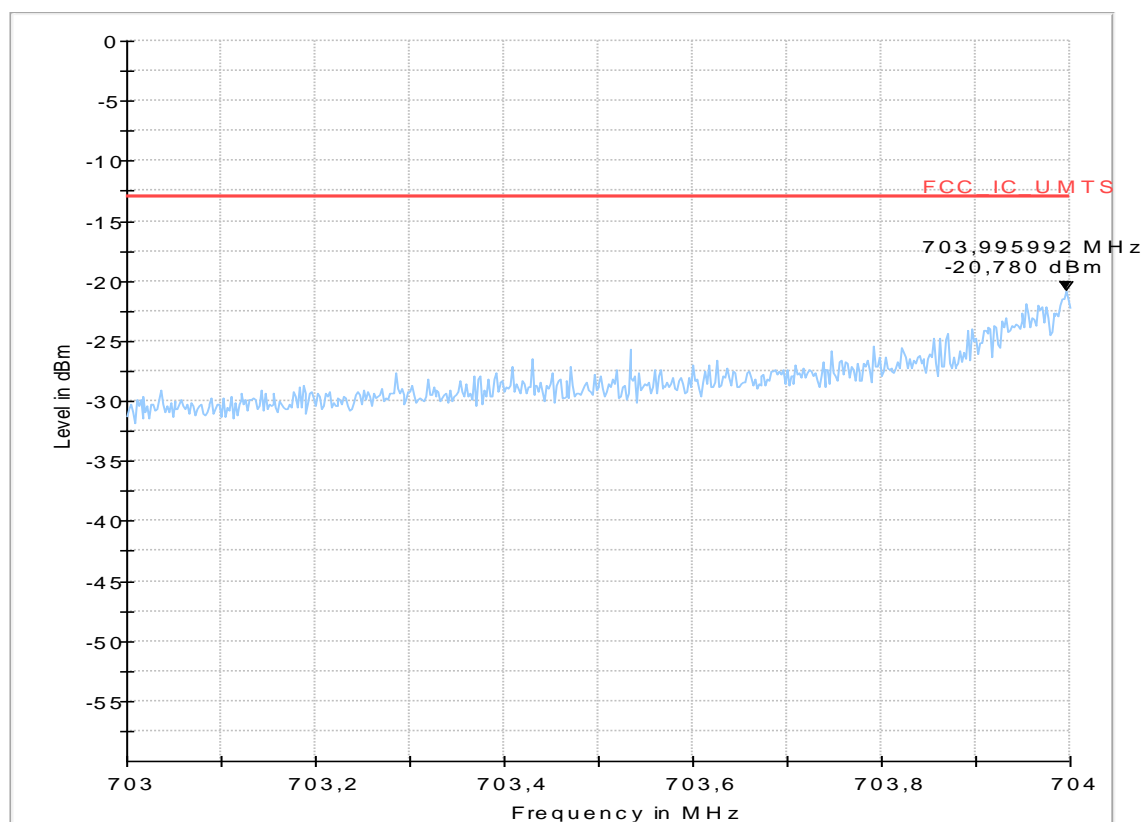
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.4. Channel 23755, 16-QAM, 25RBs**9.1702b_BE_R_CH23755_25RB_Low_16-QAM_LTE17_External****Common Information**

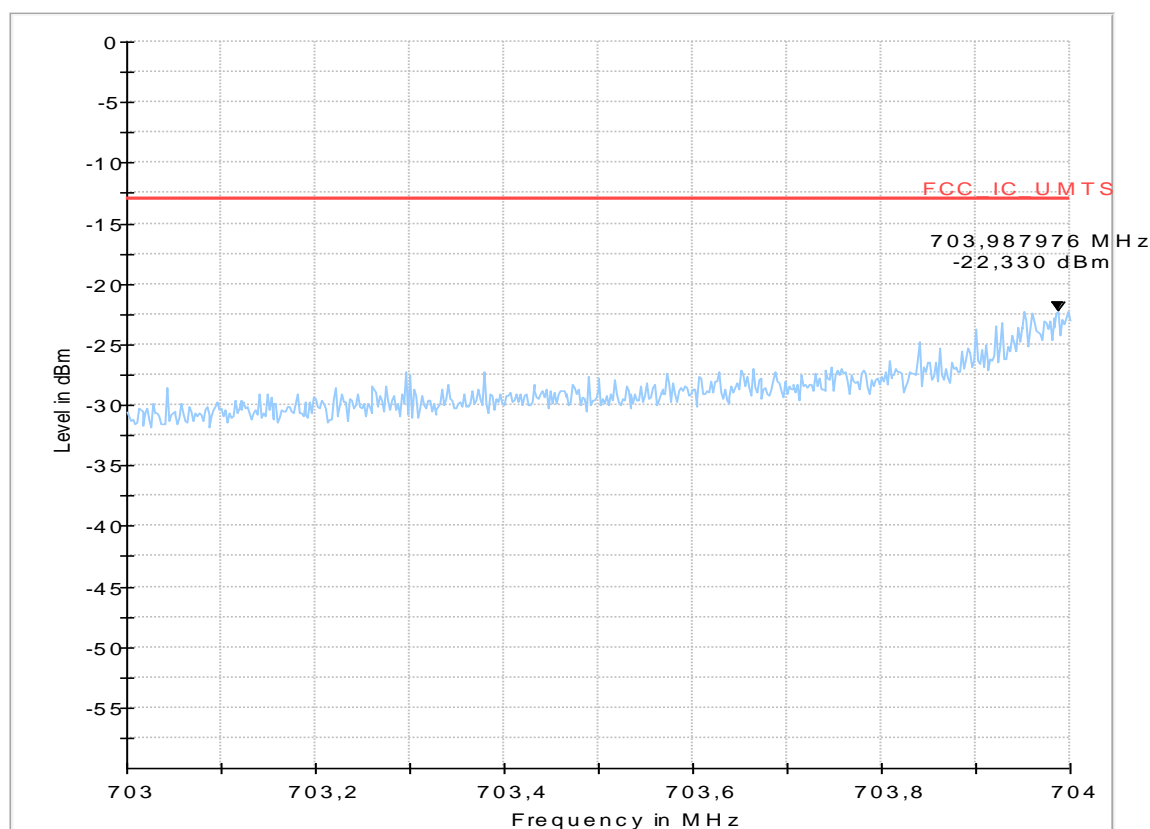
Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2. Internal antenna - High Band-Edge

3.8.2.1. Channel 23825, QPSK, 1RBs

9.1704a_BE_R_Ch23825_1RB_high_BW5_QPSK

Common Information

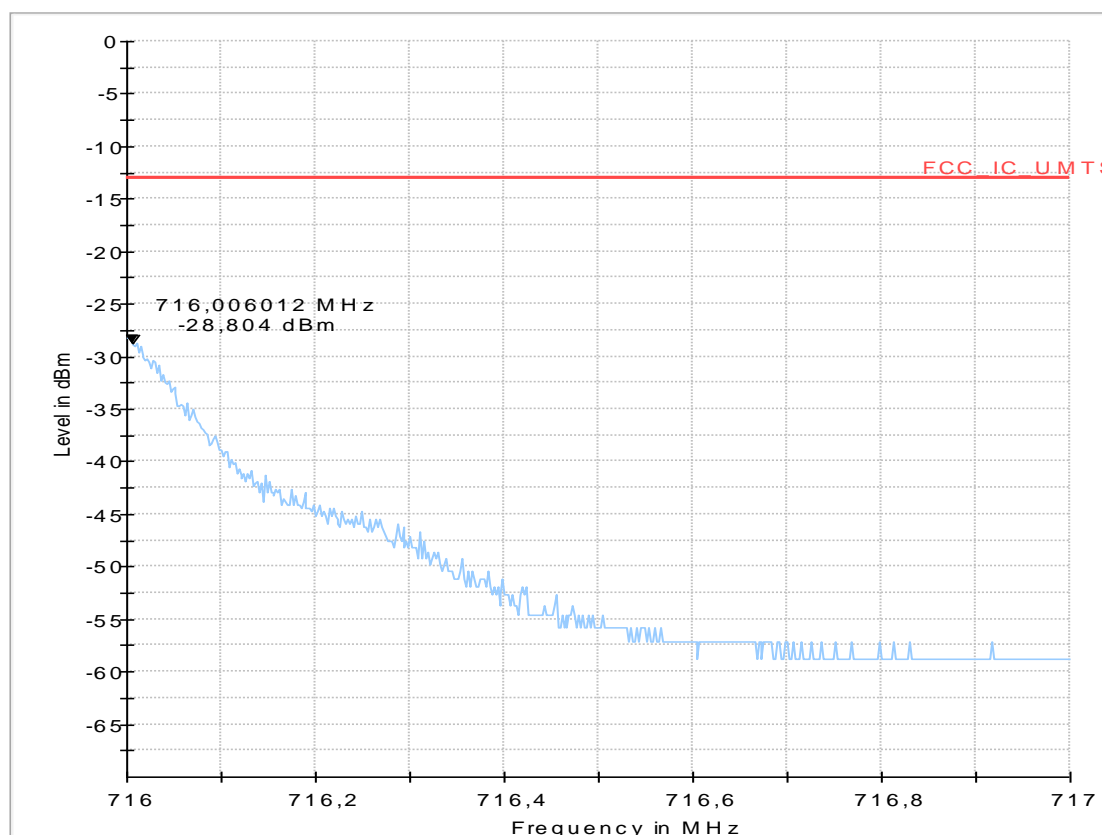
Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.2. Channel 23825, 16-QAM, 1RBs

9.1704b_BE_R_Ch23825_1RB_high_BW5_QAM

Common Information

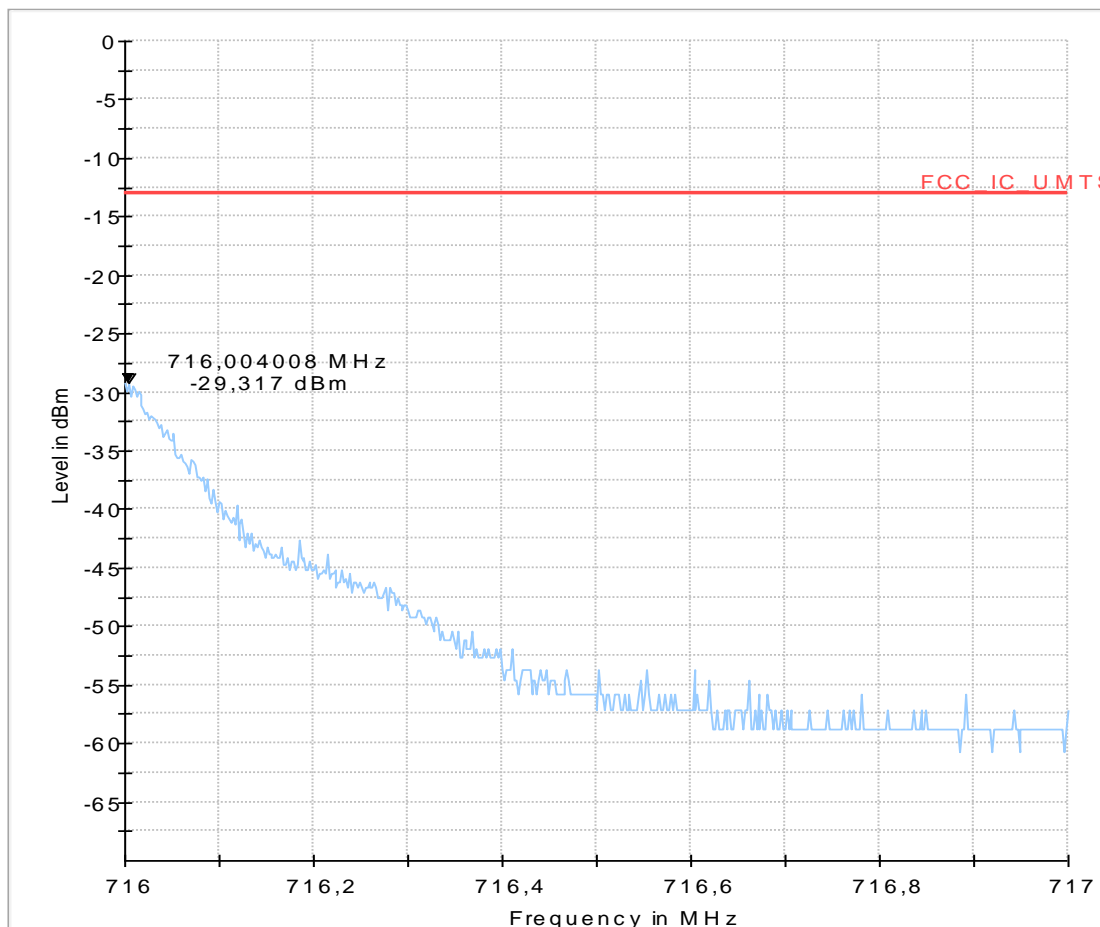
Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.3. Channel 23825, QPSK, 25RBs

9.1704a_BE_R_Ch23825_25RB_BW5_QPSK

Common Information

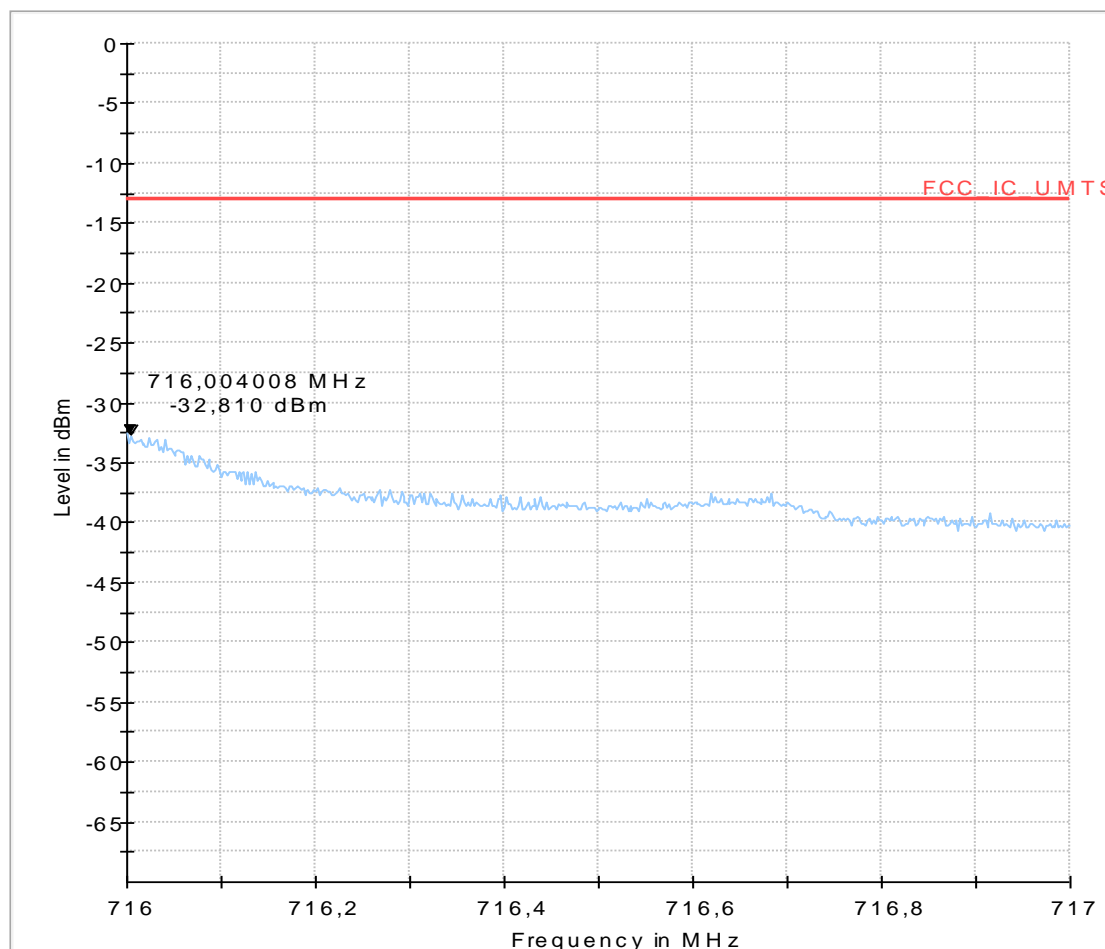
Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=25, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.4. Channel 23825, 16-QAM, 25RBs

9.1704b_BE_R_Ch23825_25RB_BW5_QAM

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=25, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum

