

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 16-1-0050601T34a








According to:
FCC Regulations
 Part 22, Part 24

for

peiker acoustic GmbH & Co. KG

GSM/ WCDMA/ LTE Telematics ROW Module
 V1233-0

FCC-ID: QWY-V1233-0

Laboratory Accreditation and Listings		
 Deutsche Akkreditierungsstelle D-PL-12047-01-01 Accredited EMC-Test Laboratory	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-20013, C-20009, T-20006, G-20013
 	 Lab Code: 20011130-00	 MRA US-EU 0003
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<p align="center"> 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 </p>		
Laboratory Accreditation and Listings		

& Co.

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1. Measurement diagrams

1.1. Magnetic field strength measurements GSM850 Mode

Diagram No. 2.01_RSE_R_Ch128_GPRS

Date:	15.04.2017	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
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 15.225; RSS-Gen: Issue 3	

Operator:	DLe
Operating conditions:	GPRS850 RSE CH128
Power during tests:	12V DC
Comment 1:	Channel 128 laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

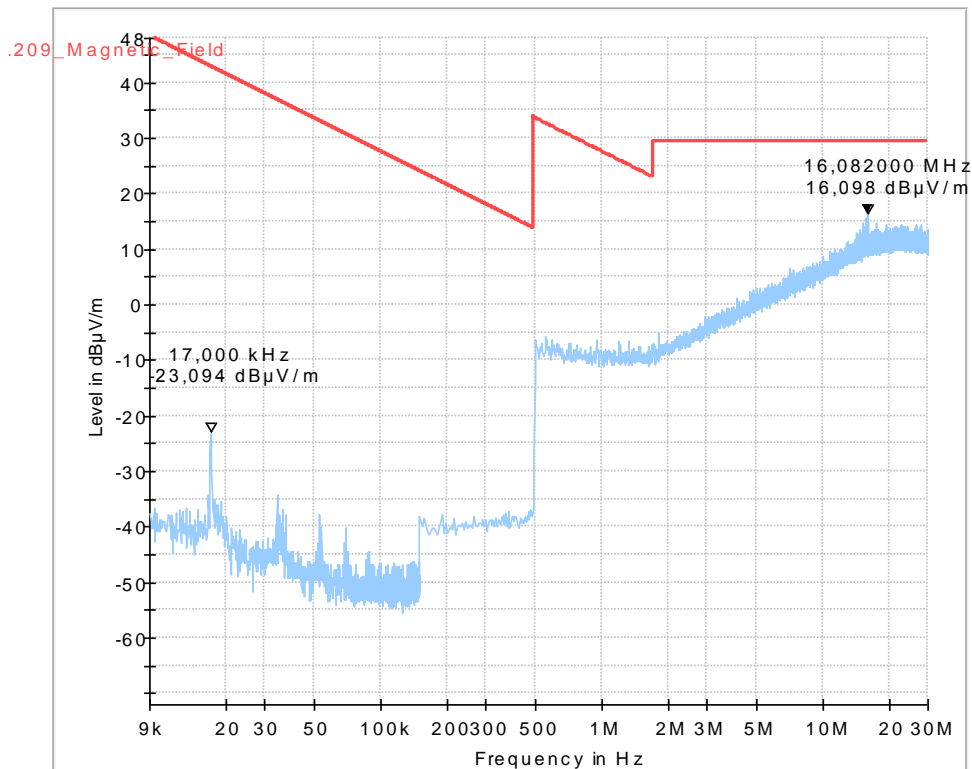


Diagram No. 2.01b_RSE_R_Ch128_GPRS

Date:	15.04.2017	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
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 15.225; RSS-Gen: Issue 3	
Operator:	Klv	
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C	
Operating mode:	GPRS 850 RSE	
Power during tests:	12V DC	
Comment 1:	Channel 128	
Comment 2:	EUT Standing	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

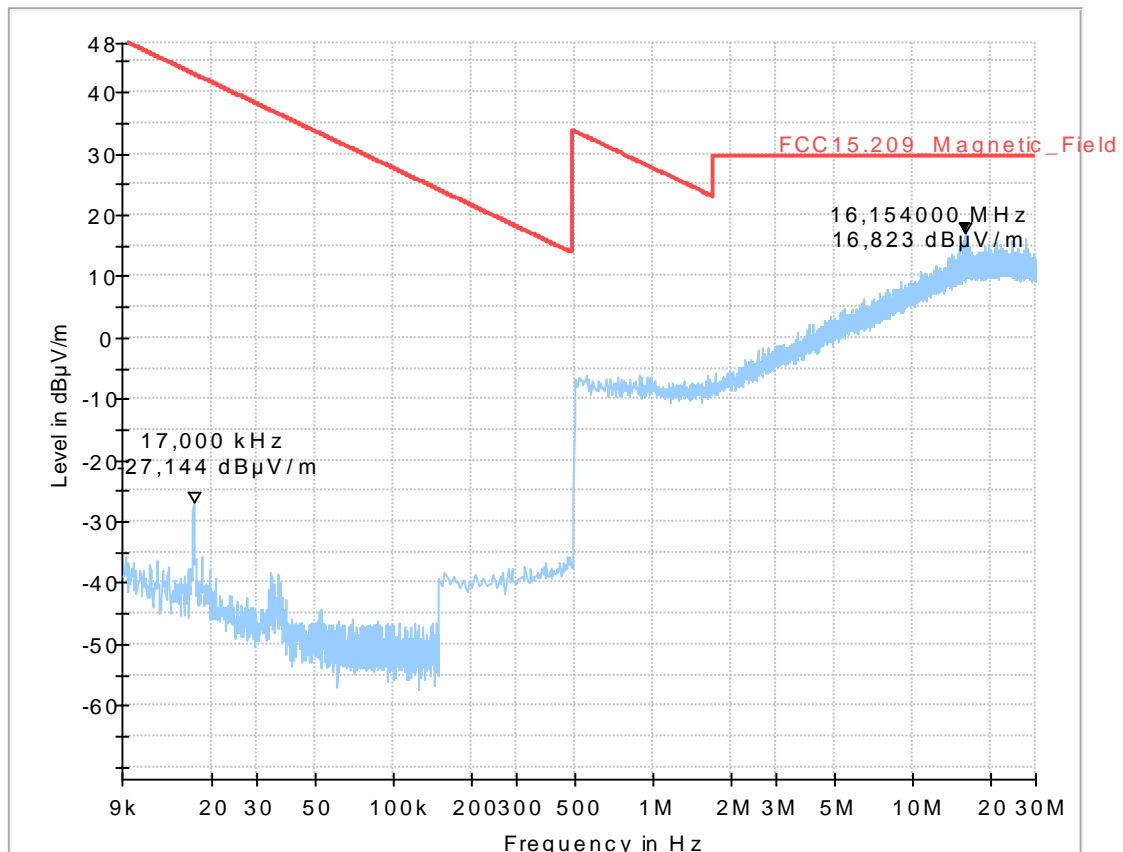


Diagram No. 2.02_RSE_R_Ch192_GPRS

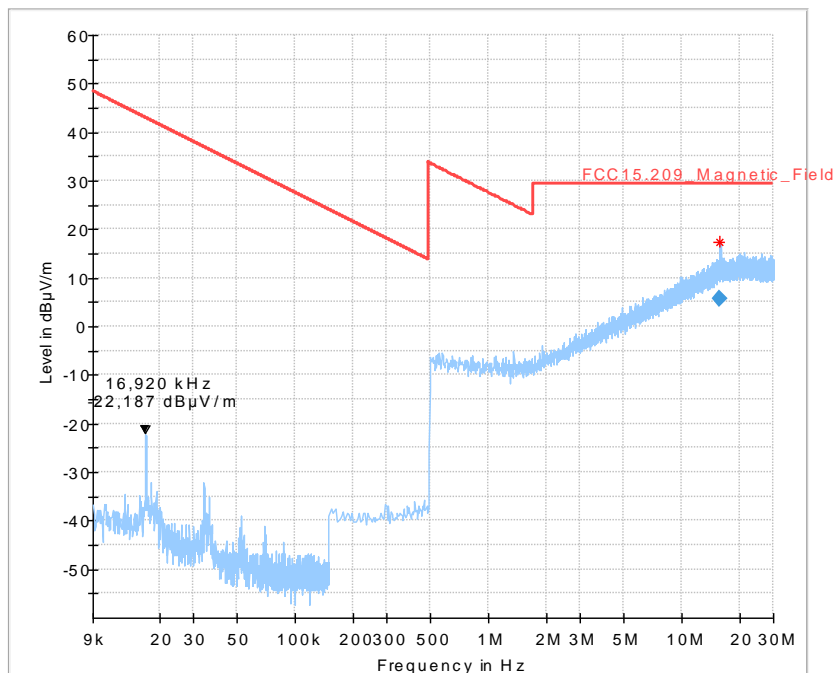
Date:	15.04.2017 Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 15.225; RSS-Gen: Issue 3
Operator:	DLe
Operating conditions:	GPRS850 RSE CH192
Power during tests:	12V DC
Comment 1:	Channel 192 laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
15.806000	5.70	29.54	23.84	1000.0	10.000	100.0	H	263.0	0.0	0.1

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

Frequency (MHz)	Comment
15.806000	09:41:10 - 15.04.2017

Diagram No. 2.02b_RSE_R_Ch192_GPRS

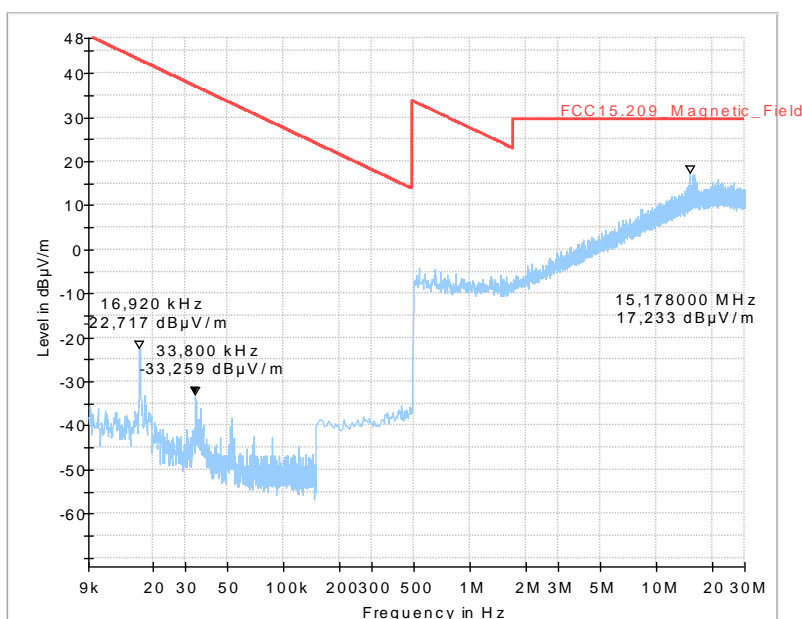
Date:	15.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
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 15.225; RSS-Gen: Issue 3	
Operator:	Klv	
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C	
Operating mode:	GPRS 850 RSE	
Power during tests:	12V DC	
Comment 1:	Channel 192	
Comment 2:	EUT Standing	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG	
EUT:	V1233-0	

HW version:	V1233-0_Ver.1	
SW version:	MPSS.TH.2.0.2-00220	
Serial number:	004402580050122	
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables	
Power Supply:	12VDC	
Comments:	-	

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

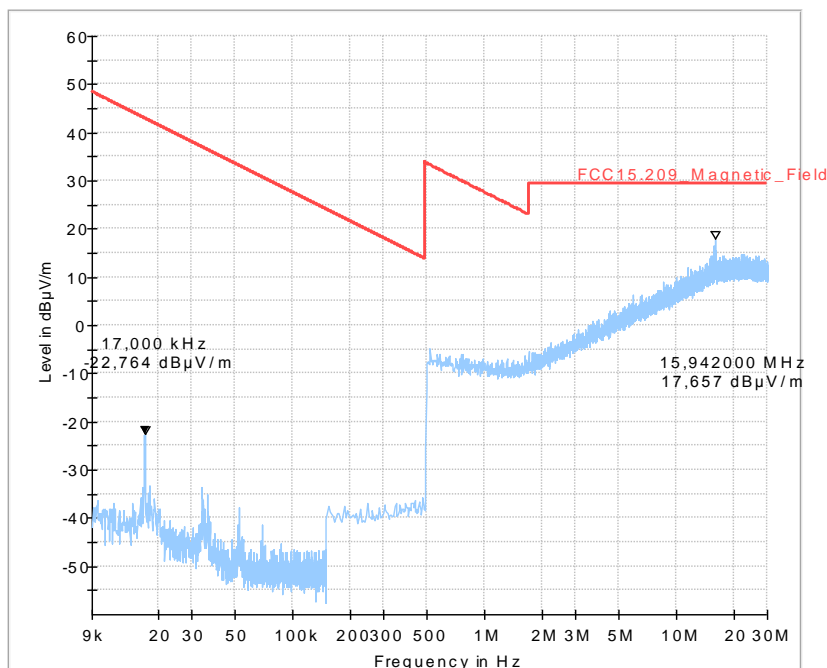
Diagram No. 2.03_RSE_R_Ch251_GPRS

Test description: Test site and distance: Version of Testsoftware: Distance correction: Technical Data: Rec. antenna (pre-scan): Used filter: Test specification:	Date: 15.04.2017 Page 1 of 2 Magnetic Field Strength Measurement related to 30 m distance Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance EMC32 V9.25.0 used accord. table, pls. see test report Please see page 2 for detailed data of measurement setup height 1.00 m, parallel and 90° to EUT polarisation bypass FCC 15.225; RSS-Gen: Issue 3
Operator: Operating conditions: Power during tests: Comment 1:	DLe GPRS850 RSE CH251 12V DC Channel 251 laying position

EUT Information

Manufacturer: EUT:	peiker acoustic GmbH & Co. KG V1233-0
HW version: SW version: Serial number: Connected Interfaces:	V1233-0_Ver.1 MPSS.TH.2.0.2-00220 004402580050122 Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply: Comments:	12VDC -

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

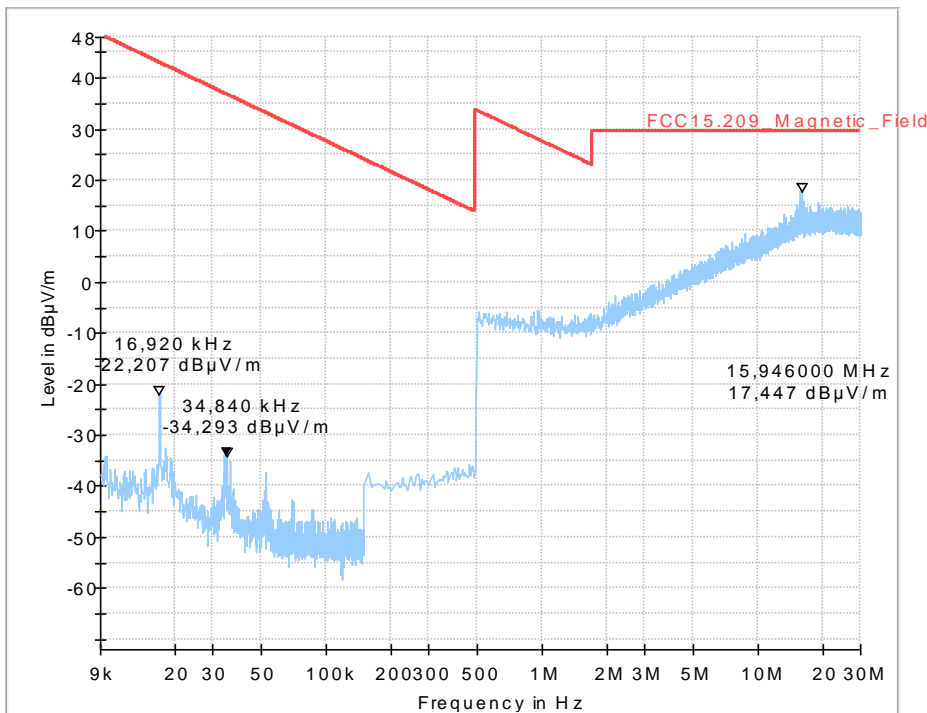
Diagram No. 2.03b_RSE_R_Ch251_GPRS

Date: 15.04.2017	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
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 15.225; RSS-Gen: Issue 3
Operator:	Klv
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C
Operating mode:	GPRS 850 RSE
Power during tests:	12V DC
Comment 1:	Channel 251
Comment 2:	EUT Standing

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1233-0
-----	-----
HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.2. Magnetic field strength measurements GSM1900 Mode

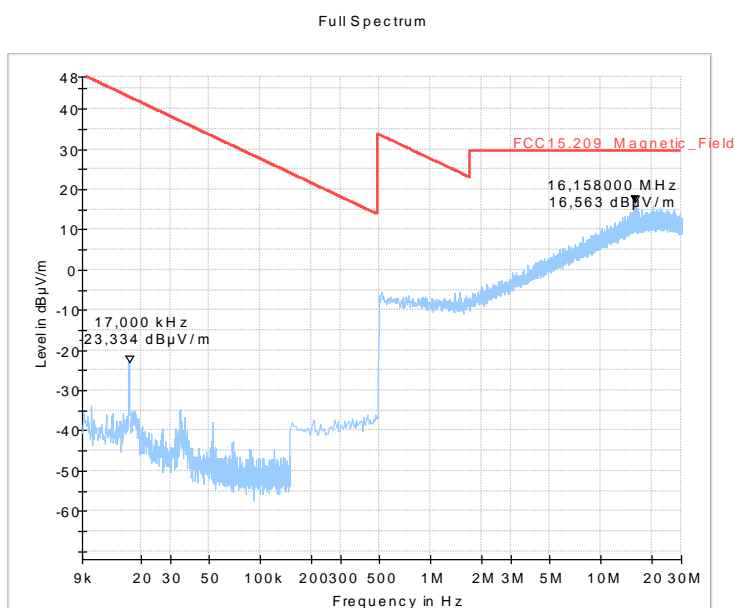
Diagram No. 2.10a_RSE_R_Ch512_GPRS

Date:	15.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
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 15.225; RSS-Gen: Issue 3	
Operator:	Klv	
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C	
Operating mode:	GPRS 1900 RSE	
Power during tests:	12V DC	
Comment 1:	Channel 512	
Comment 2:	EUT Standing	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

Diagram b No. 2.10_RSE_R_Ch512_GPRS

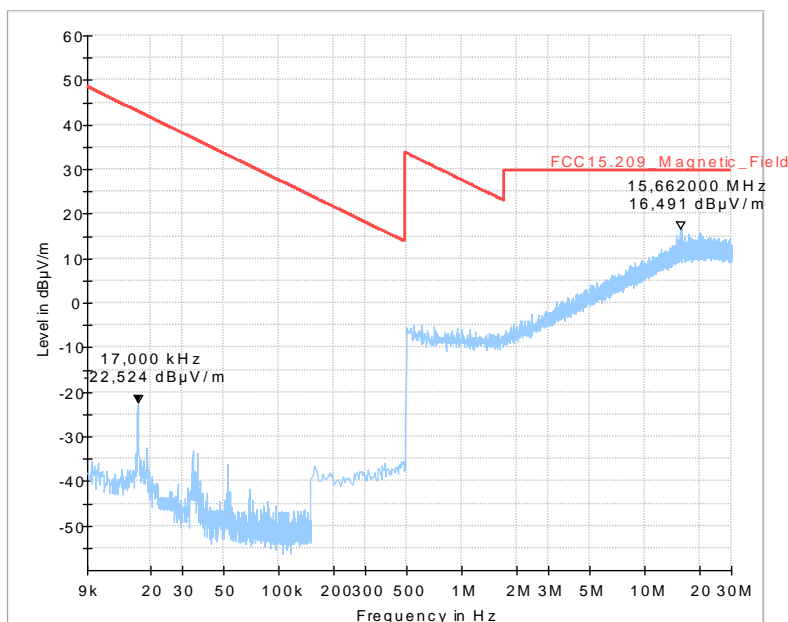
Date:	15.04.2017 Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 15.225; RSS-Gen: Issue 3
Operator:	DLe
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C
Operating mode:	GPRS 1900 RSE
Power during tests:	12V DC
Comment 1:	Channel 512 laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

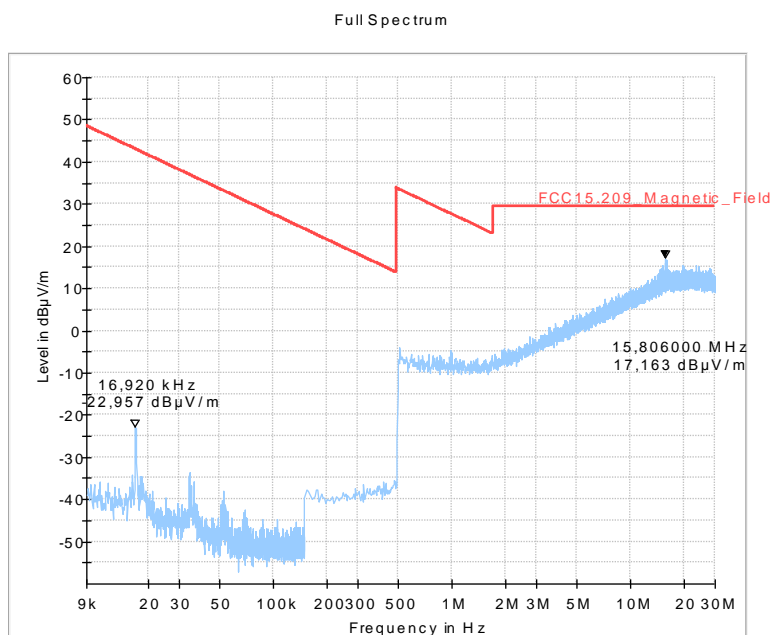
Diagram No. 2.11a_RSE_R_Ch661_GPRS

Test description: Test site and distance: Version of Testsoftware: Distance correction: Technical Data: Rec. antenna (pre-scan): Used filter: Test specification:	Date: 15.04.2017 Page 1 of 2 Magnetic Field Strength Measurement related to 30 m distance Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance EMC32 V9.25.0 used accord. table, pls. see test report Please see page 2 for detailed data of measurement setup height 1.00 m, parallel and 90° to EUT polarisation bypass FCC 15.225; RSS-Gen: Issue 3
Operator: Operating Conditions Operating mode Power during tests: Comment 1: Comment 2:	Klv Humidity: 40%rH; Temperature: 21°C GPRS 1900 RSE 12V DC Channel 661 EUT Standing

EUT Information

Manufacturer: EUT:	peiker acoustic GmbH & Co. KG V1233-0

HW version: SW version: Serial number: Connected Interfaces:	V1233-0_Ver.1 MPSS.TH.2.0.2-00220 004402580050122 Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply: Comments:	12VDC -



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

Diagram b No. 2.11_RSE_R_Ch661_GPRS

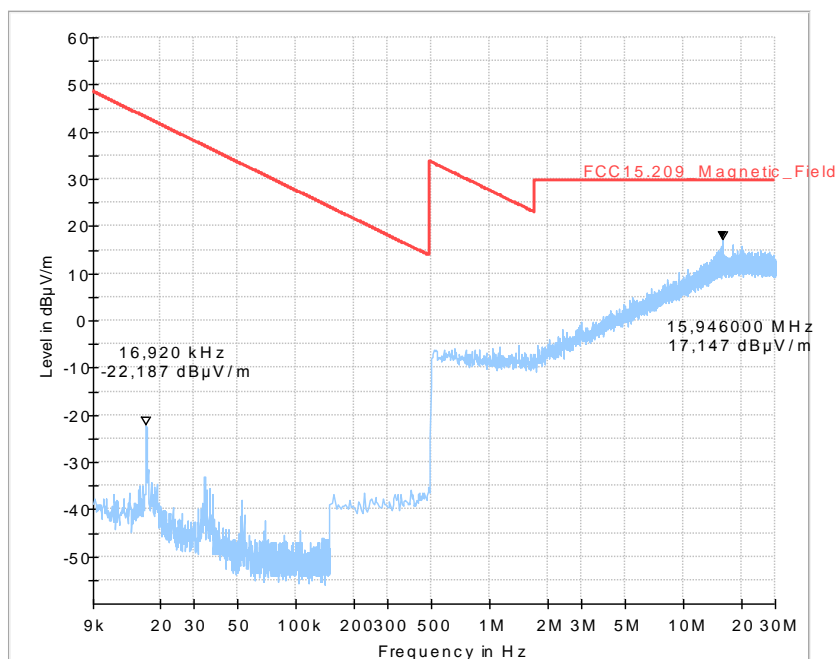
Date:	15.04.2017 Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 15.225; RSS-Gen: Issue 3
Operator:	DLe
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C
Operating mode:	GPRS 1900 RSE
Power during tests:	12V DC
Comment 1:	Channel 661 laying position

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
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(continuation of the "Final_Result" table from column 17 ...)

Frequency (MHz)	Comment

Diagram No. 2.12a_RSE_R_Ch810_GPRS

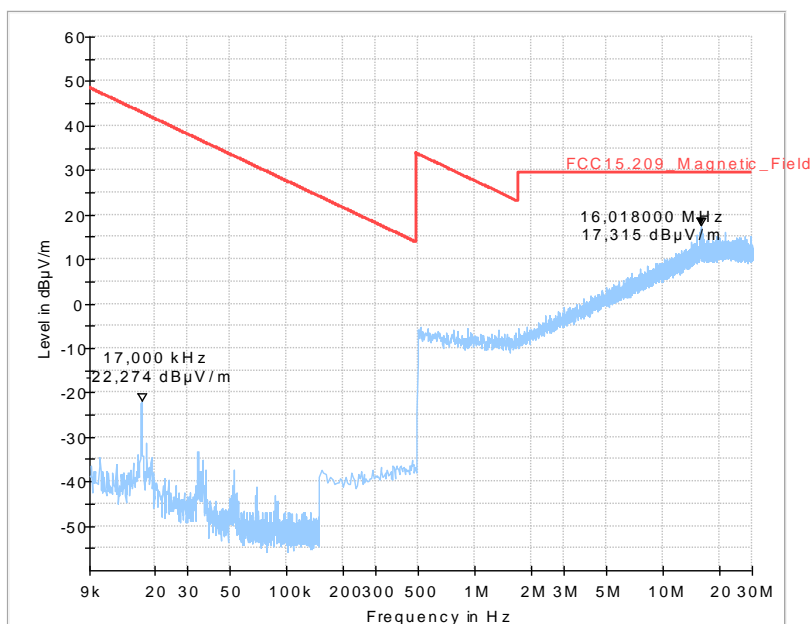
Date:	15.04.2017 Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 15.225; RSS-Gen: Issue 3
Operator:	Klv
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C
Operating mode:	GPRS 1900 RSE
Power during tests:	12V DC
Comment 1:	Channel 810
Comment 2:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
---	---	---	---	---	---	---		---	---	---

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

Frequency (MHz)	Comment

Diagram No. 2.12_RSE_R_Ch810_GPRS

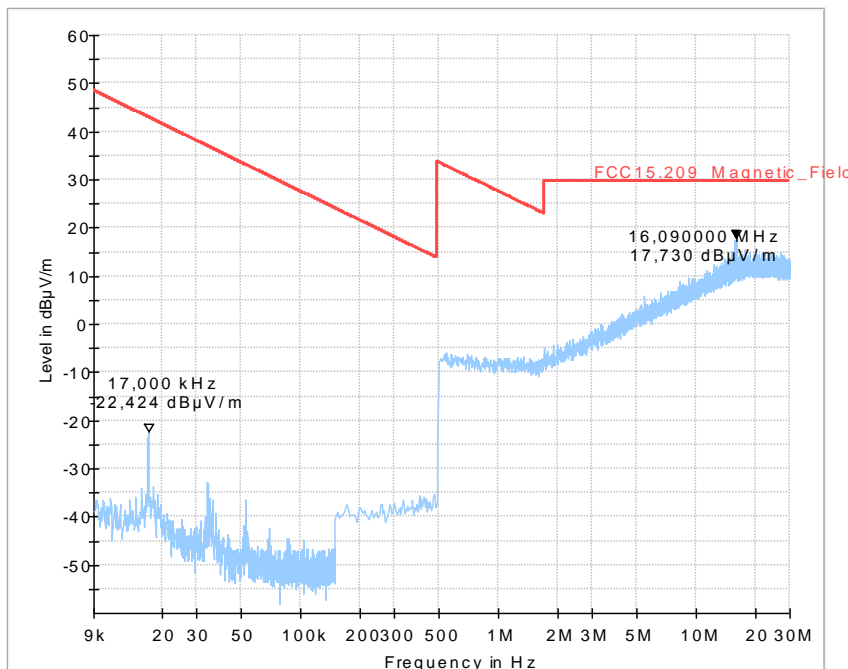
Date:	15.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
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 15.225; RSS-Gen: Issue 3	
Operator:	DLe/Klv	
Operating Conditions:	Humidity: 40%rH; Temperature: 21°C	
Operating mode:	GPRS 1900 RSE	
Power during tests:	12V DC	
Comment 1:	Channel 810 laying position	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG	
EUT:	V1233-0	

HW version:	V1233-0_Ver.1	
SW version:	MPSS.TH.2.0.2-00220	
Serial number:	004402580050122	
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables	
Power Supply:	12VDC	
Comments:	-	

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
---	---	---	---	---	---	---		---	---	---

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

Frequency (MHz)	Comment

1.3. Spurious emissions radiated (850 MHz operating mode)

8.01a_RSE_R_Ch128_GPRS

Common Information

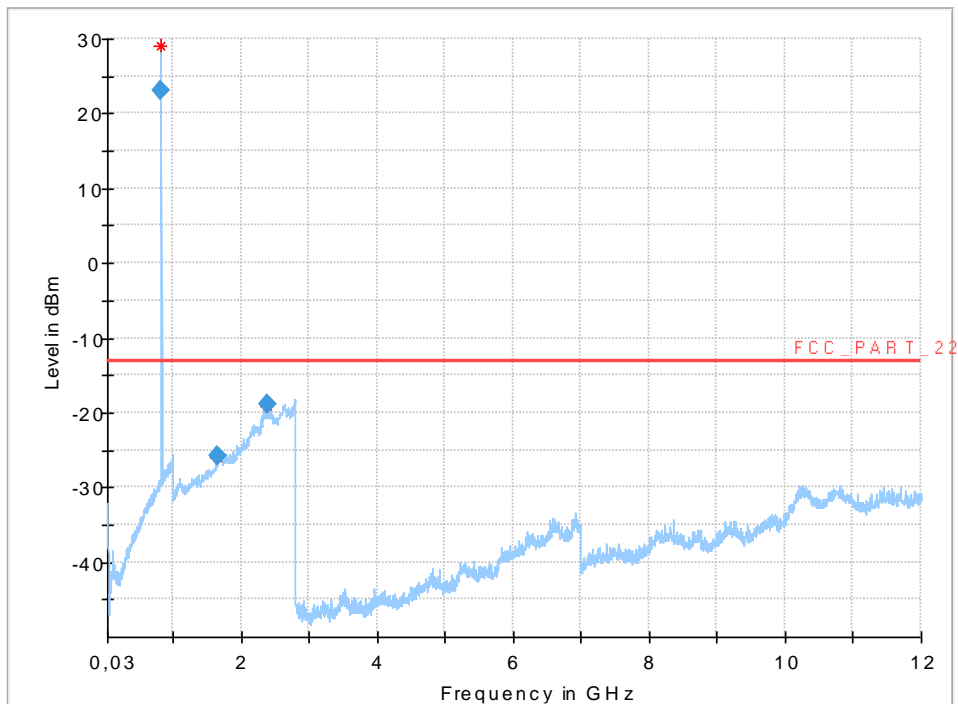
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 128
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
824.138276	23.02	-	-36.02	5000.0	H	185.0	0.0	-75.8
1638.066132	-25.76	-	12.76	5000.0	V	243.0	0.0	-63.5
2394.098196	-18.82	-	5.82	5000.0	H	315.0	0.0	-59.8

8.01b_RSE_R_Ch128_GPRS

Common Information

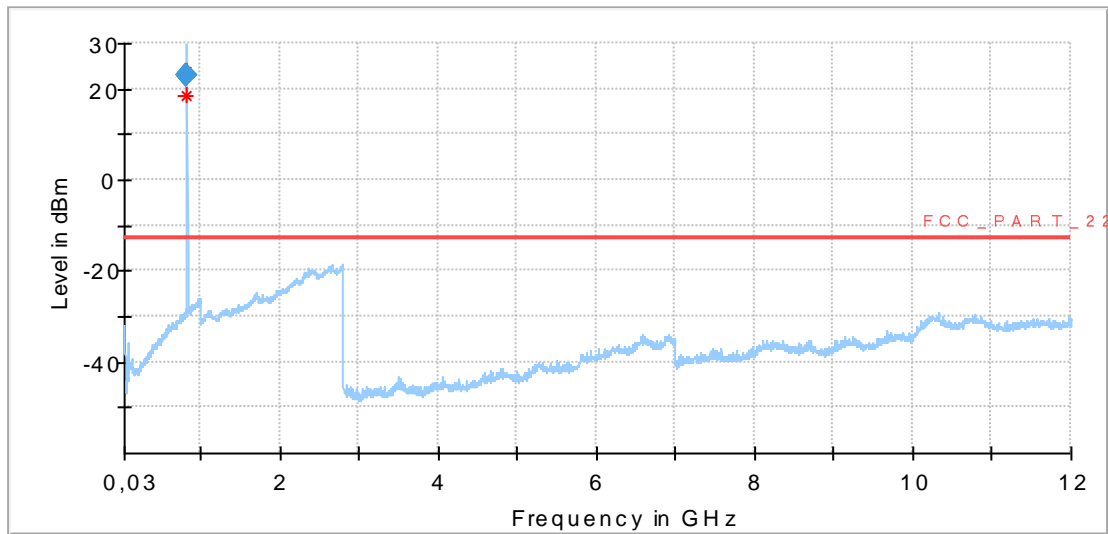
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	UE allocated channel 128 (fc = MHz)
Operating Mode:	MS allocated UL channel 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.02a_RSE_R_Ch192_GPRS

Common Information

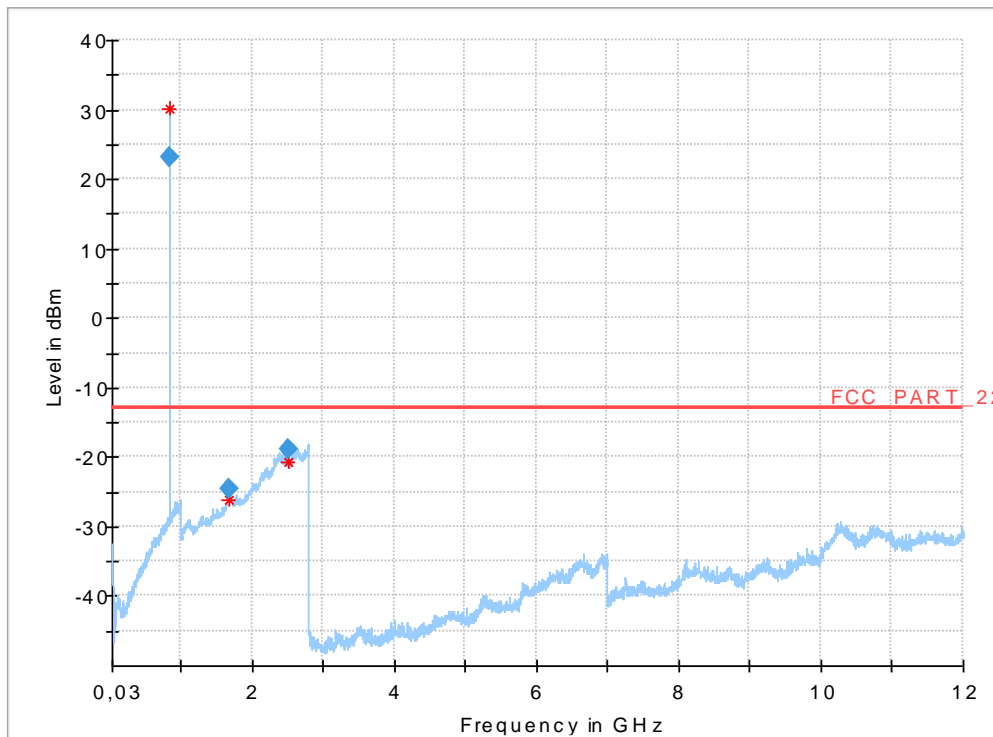
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 192
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
837.084169	23.09	-	-36.09	5000.0	H	307.0	0.0	-75.7
1668.286573	-24.54	-	11.54	5000.0	H	184.0	0.0	-63.2
2505.100201	-18.97	-	5.97	5000.0	H	160.0	0.0	-59.6

8.02b_RSE_R_Ch192_GPRS

Common Information

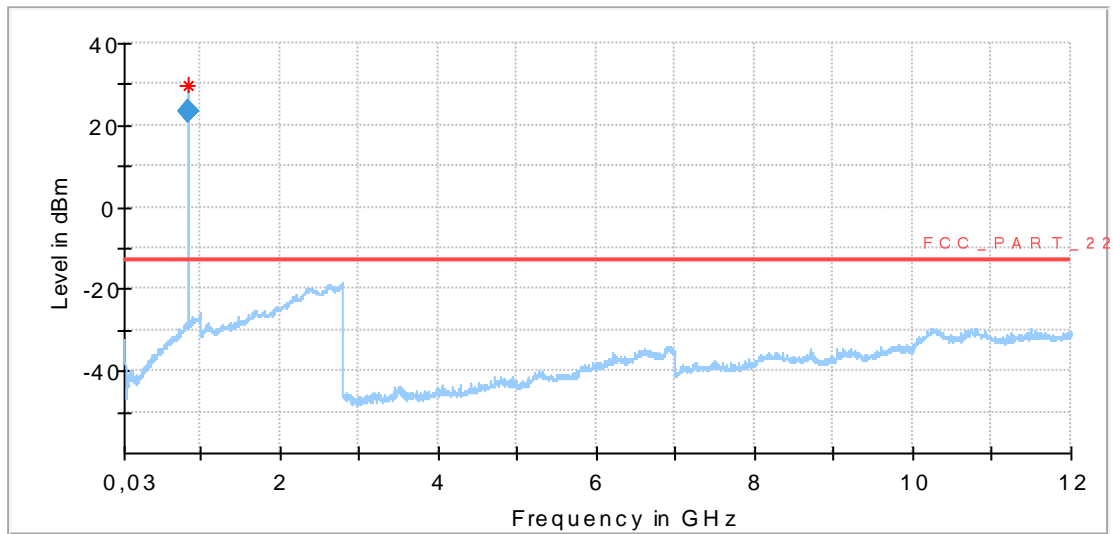
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	UE allocated channel 128 (fc = MHz)
Operating Mode:	MS allocated UL channel 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.03a_RSE_R_Ch251_GPRS

Common Information

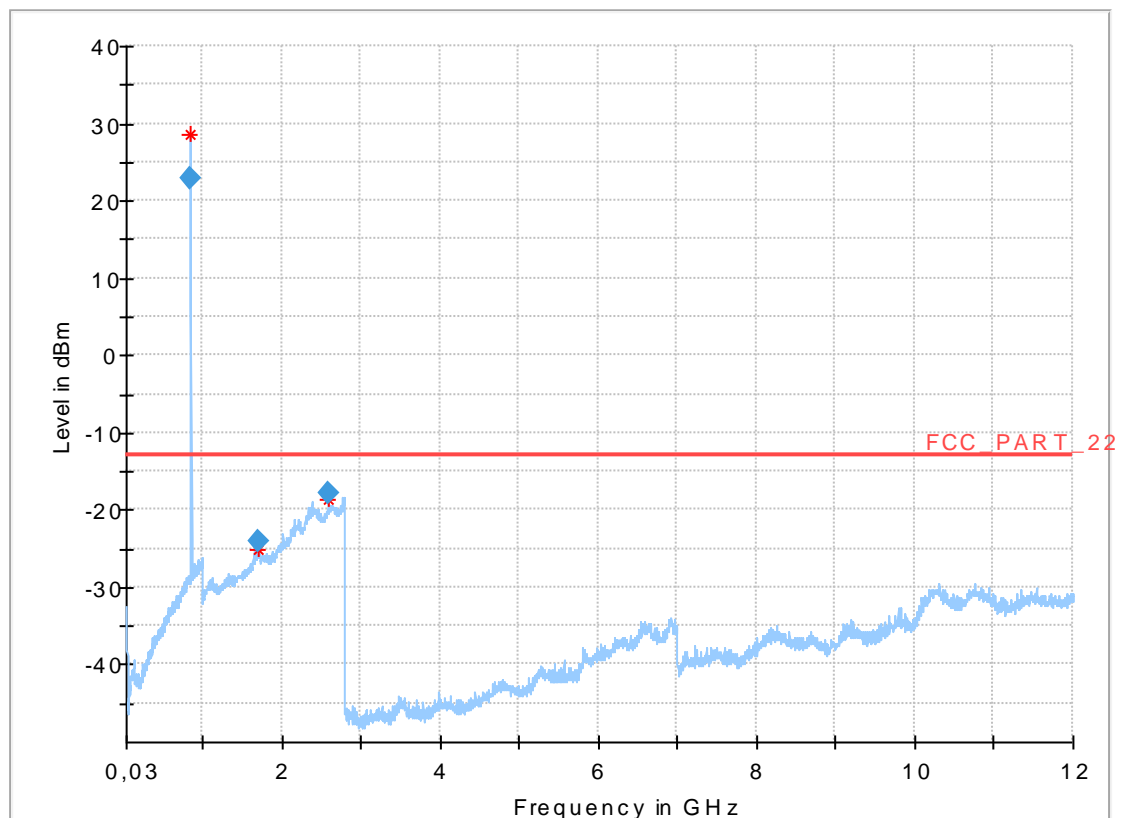
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Operating Mode:	MS allocated UL channel 251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
848.867736	22.86	-	-35.86	5000.0	H	1.0	0.0	-75.9
1691.853708	-23.99	-	10.99	5000.0	V	229.0	0.0	-62.9
2591.192385	-17.72	-	4.72	5000.0	H	240.0	0.0	-59.0

8.03b_RSE_R_Ch251_GPRS

Common Information

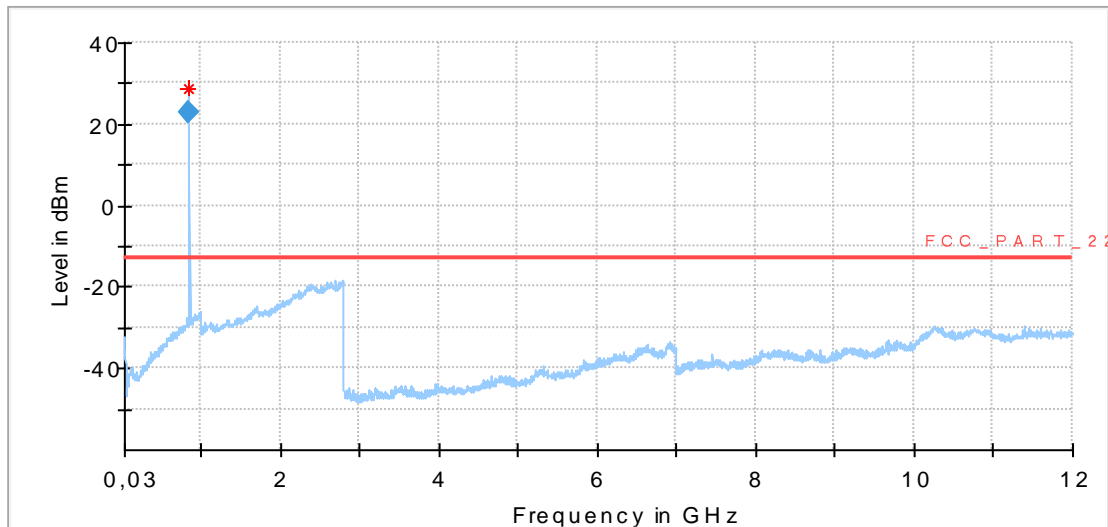
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	UE allocated channel 251 (fc = MHz)
Operating Mode:	--
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.4. Spurious emissions radiated (1900 MHz operating mode)

8.10a_RSE_R_Ch512_GPRS

Common Information

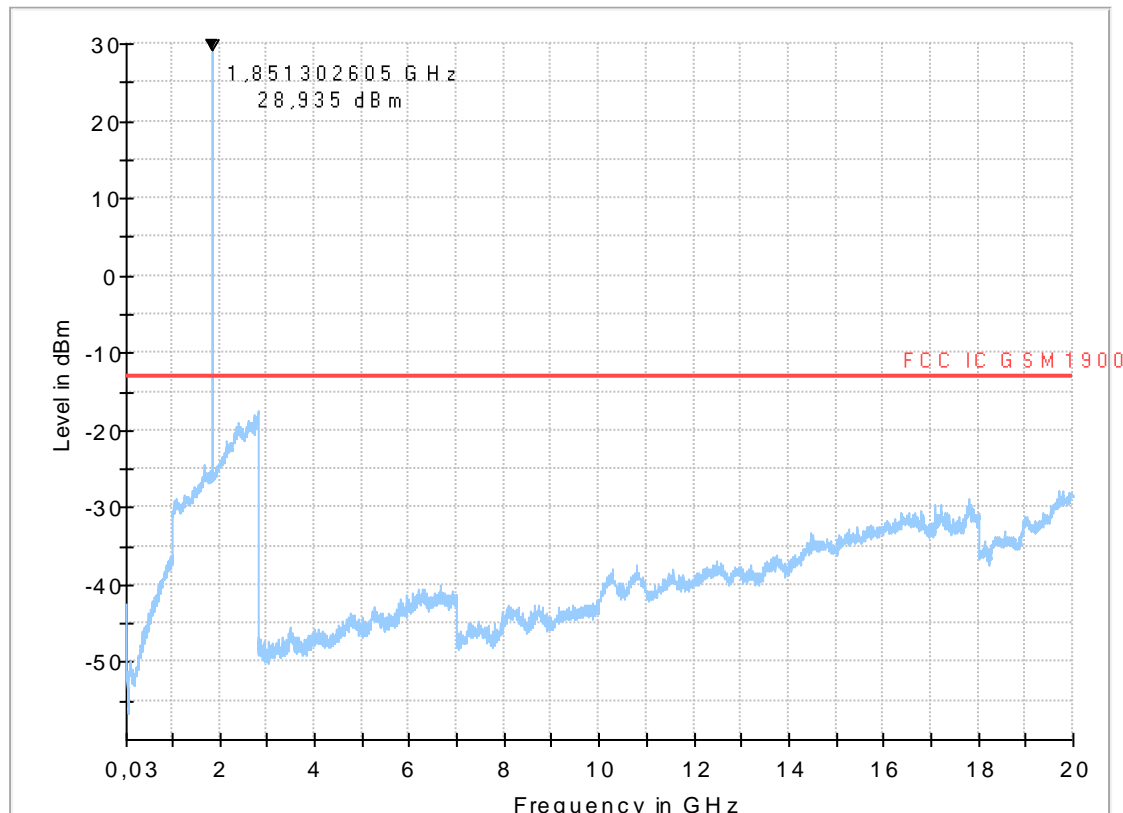
Test Description:	Radiated Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 512
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.10b_RSE_R_Ch512_GPRS

Common Information

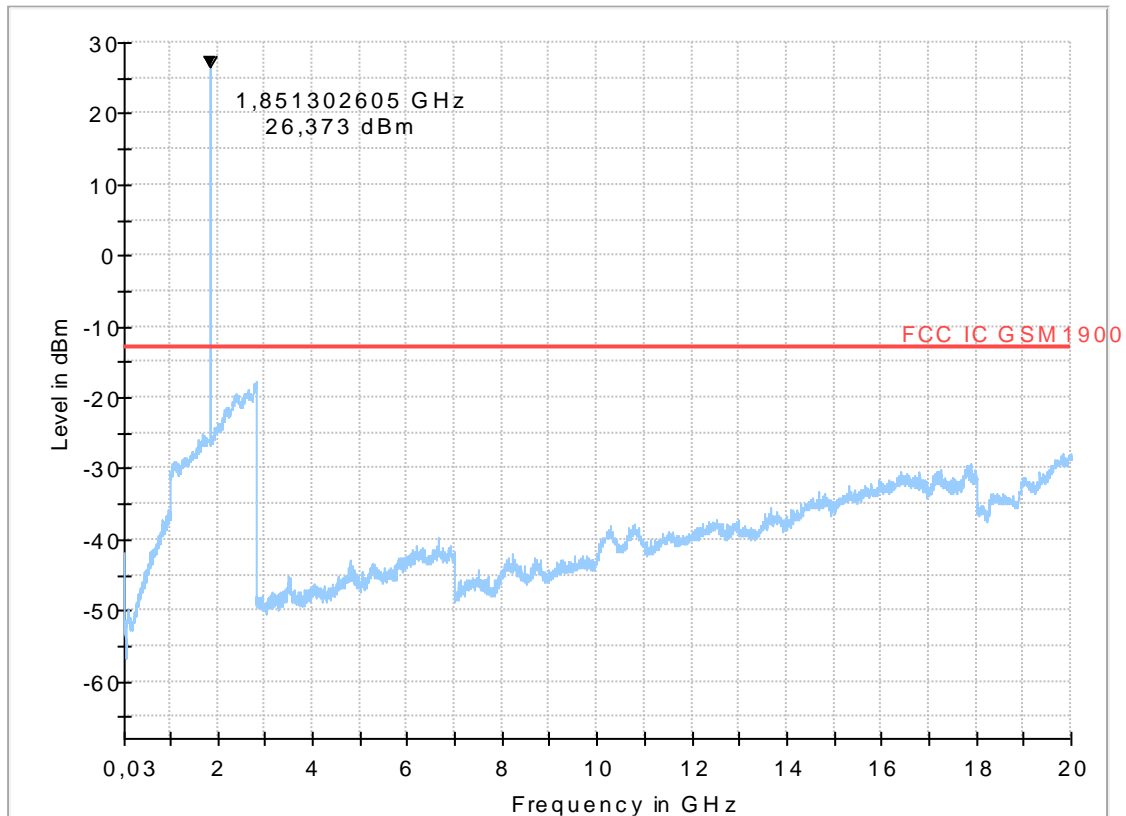
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 512,661,810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	RIs

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.11a_RSE_R_Ch661_GPRS

Common Information

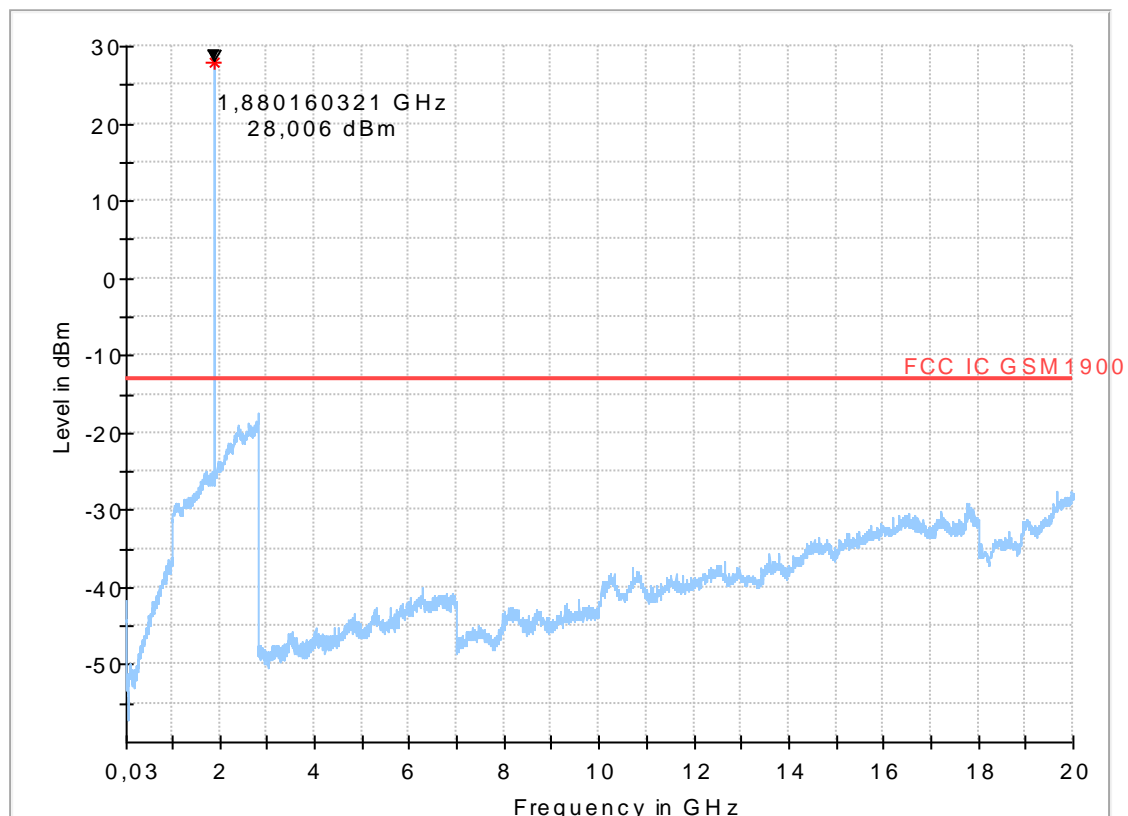
Test Description:	Radiated Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 661
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%RH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.11b_RSE_R_Ch661_GPRS

Common Information

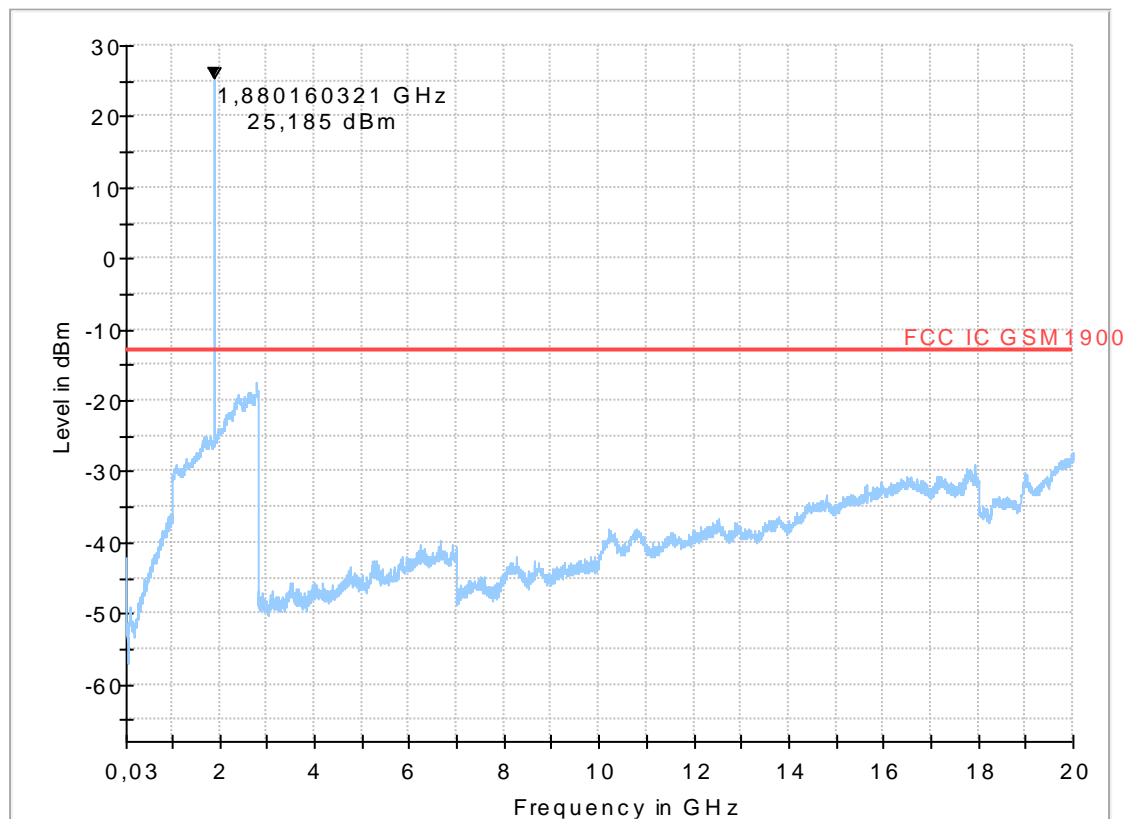
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 661
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	RIs

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.12a_RSE_R_Ch810_GPRS

Common Information

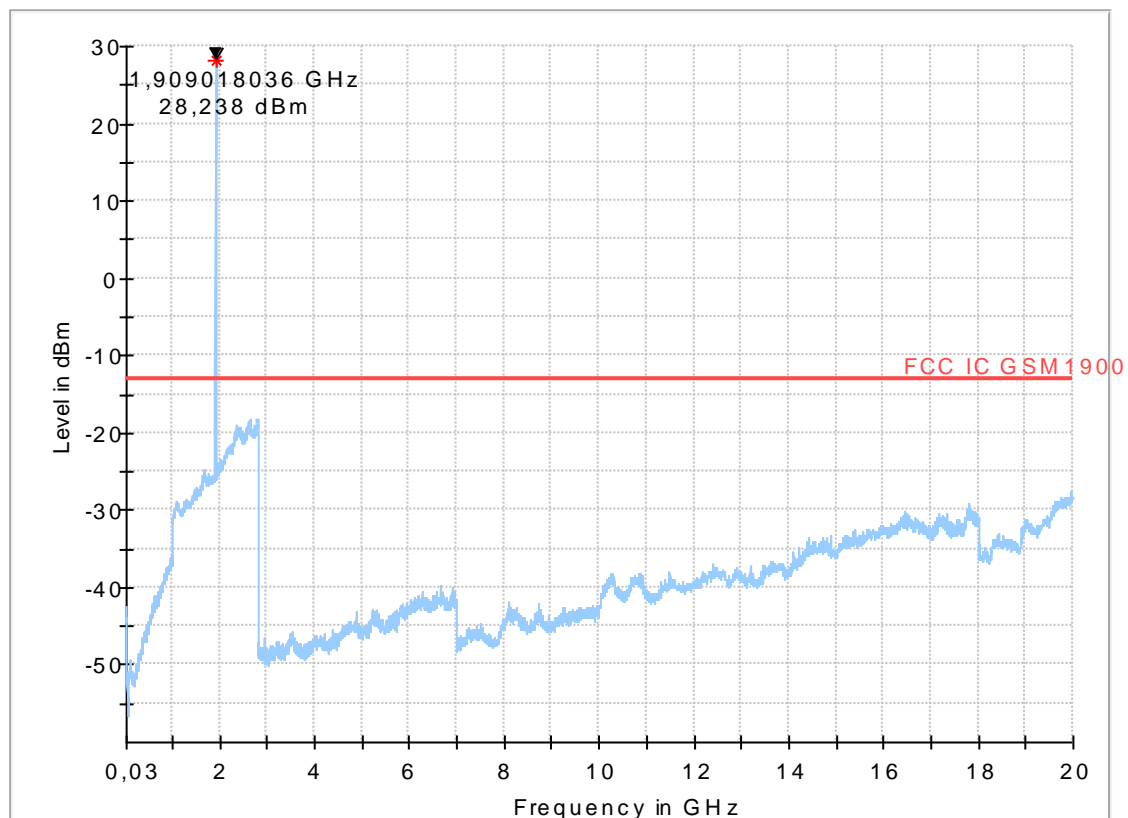
Test Description:	Radiated Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%RH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.12b_RSE_R_Ch810_GPRS

Common Information

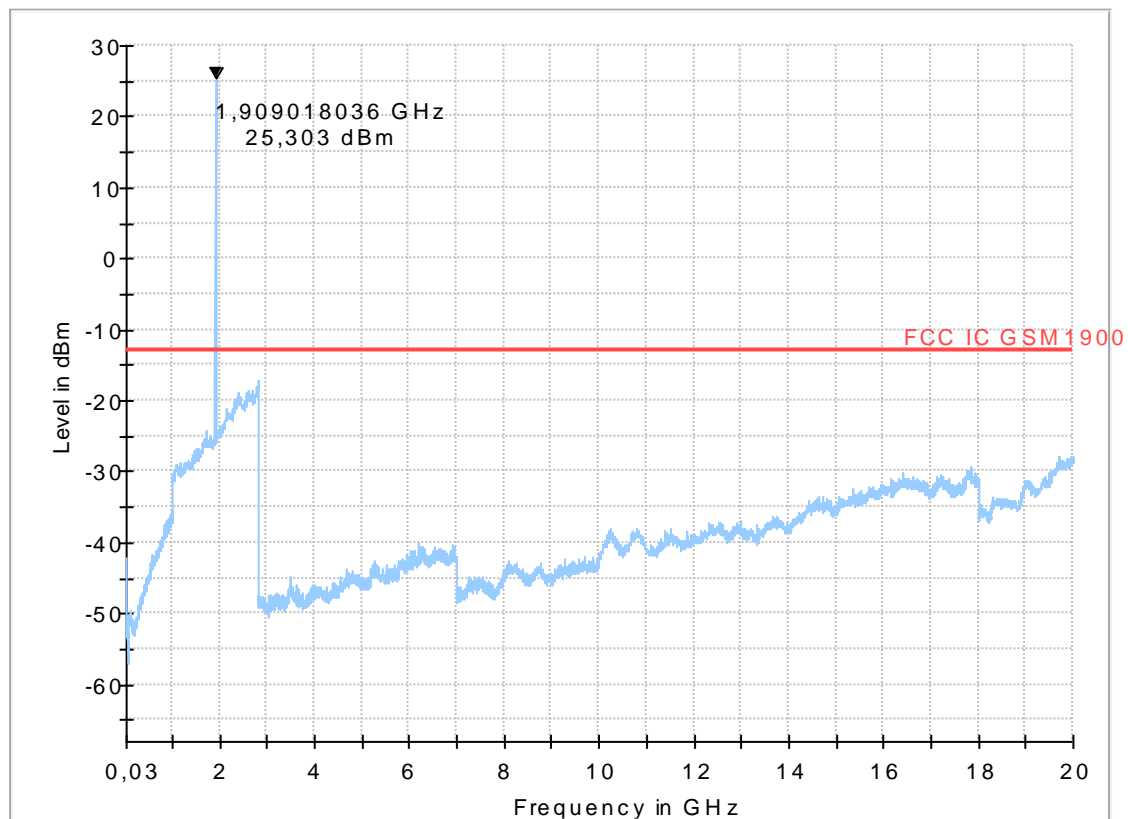
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Operating Mode:	MS allocated UL channel 512,661,810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	RIs

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.5. Radiated emissions on 850 MHz operating mode band-edge

9.01a_BE_R_Ch128_GPRS

Common Information

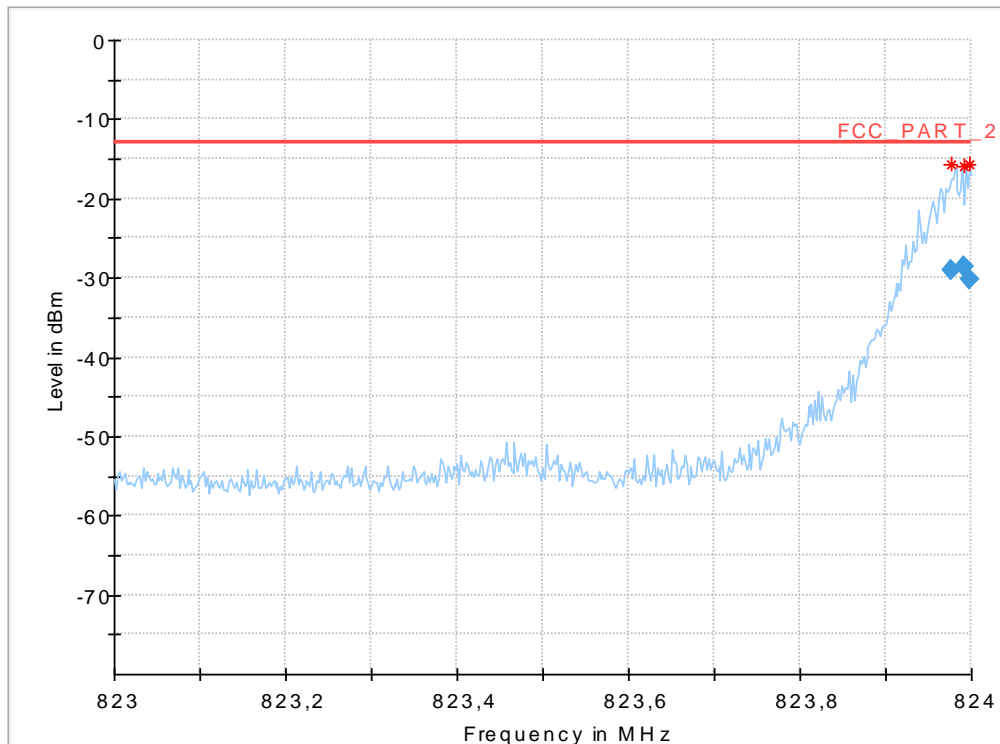
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 39%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	PKD0632AA0 (b)

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
823.975952	-29.14	13.00	16.14	10000.0	3.000	H	-4.0	0.0	-75.8
823.991984	-28.53	13.00	15.53	10000.0	3.000	H	-11.0	0.0	-75.8
823.997996	-30.27	13.00	17.27	10000.0	3.000	H	190.0	0.0	-75.8

9.01b_BE_R_Ch128_GPRS

Common Information

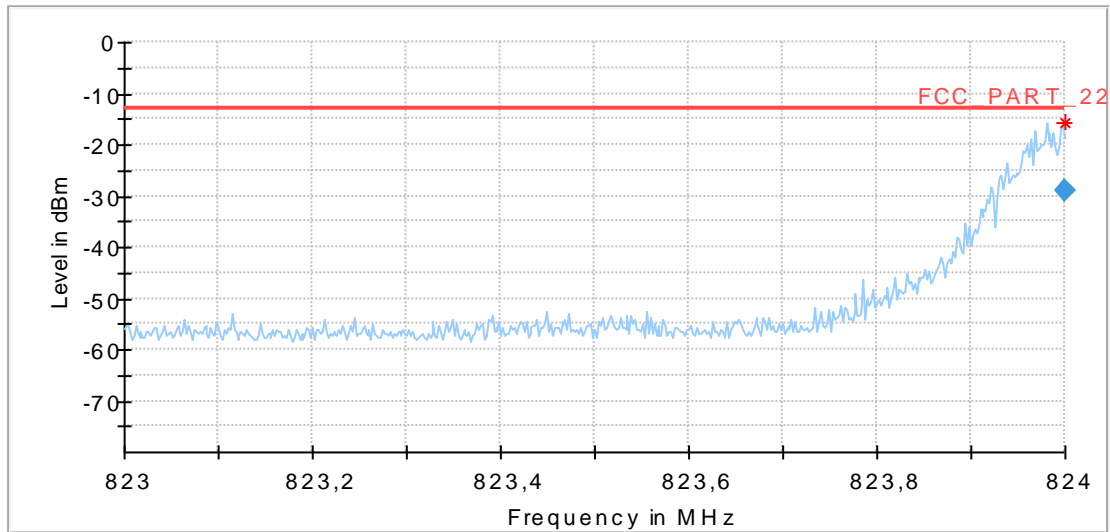
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 39%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	DUT laying

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
824.000000	-13.00	15.93	10000.0	V	285.0	90.0	-75.8

9.02a_BE_R_Ch251_GPRS

Common Information

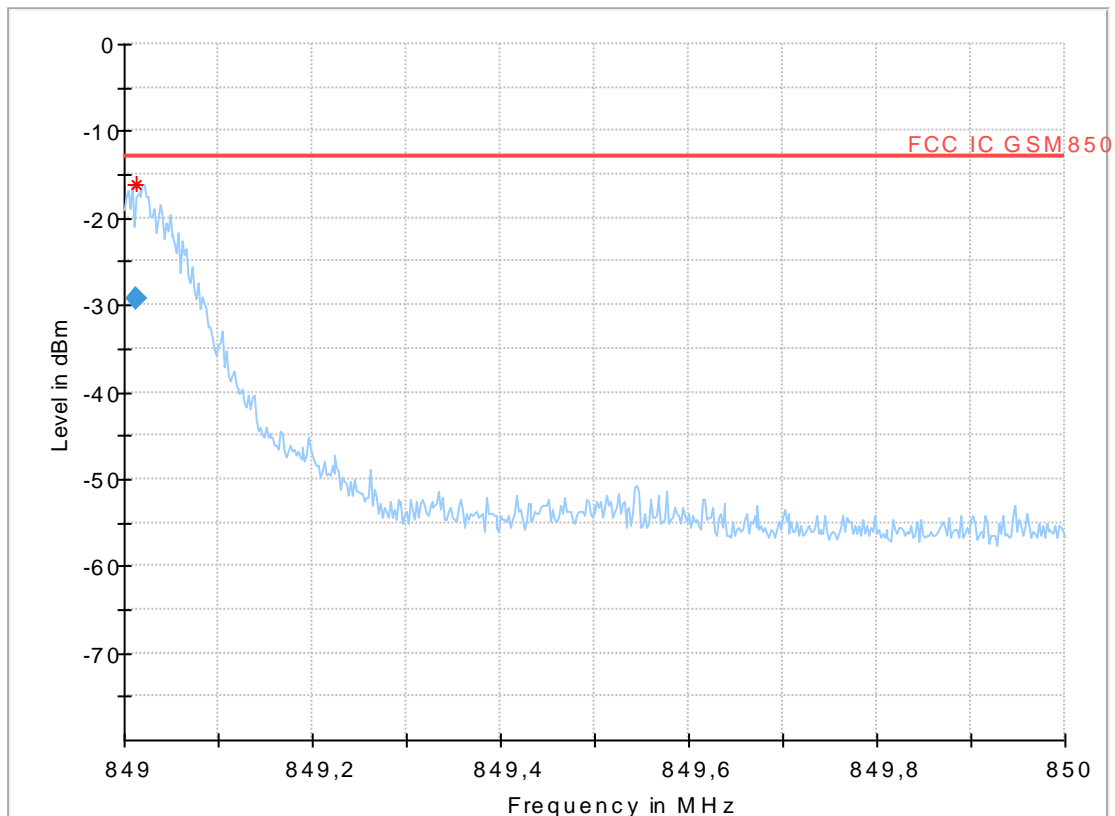
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), Voice, PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 35%RH; Temperature: 22°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
849.012024	-29.26	-13.00	16.26	10000.0	H	21.0	0.0	-75.9

9.02b_BE_R_Ch251_GPRS

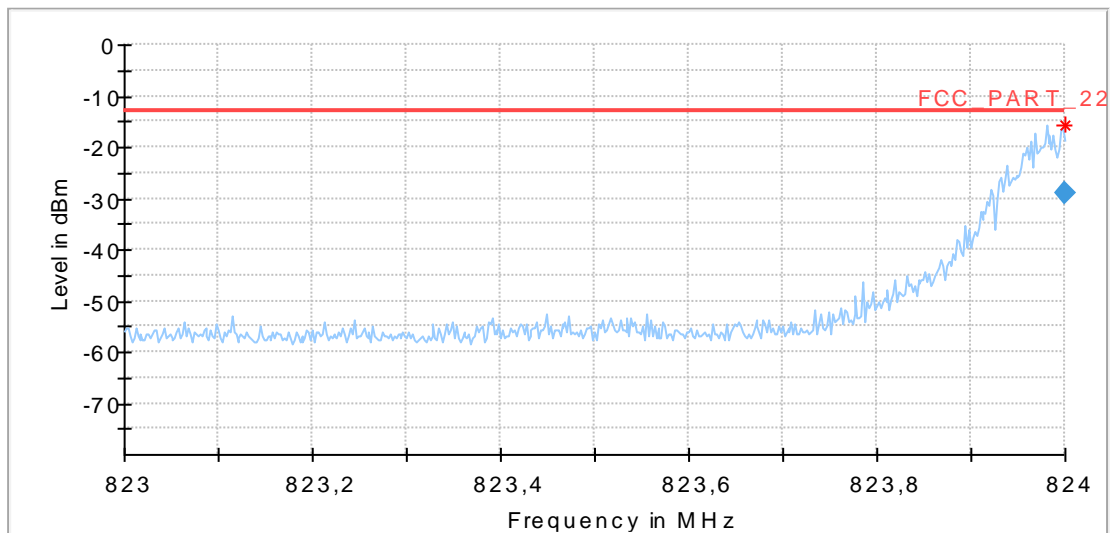
Common Information

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 251 (fc = 848.8MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 39%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0
-----	-----
HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	DUT laying

Full Spectrum



1.6. Radiated emissions on 1900 MHz transmitting band-edge

9.07a_BE_R_Ch512_GPRS

Common Information

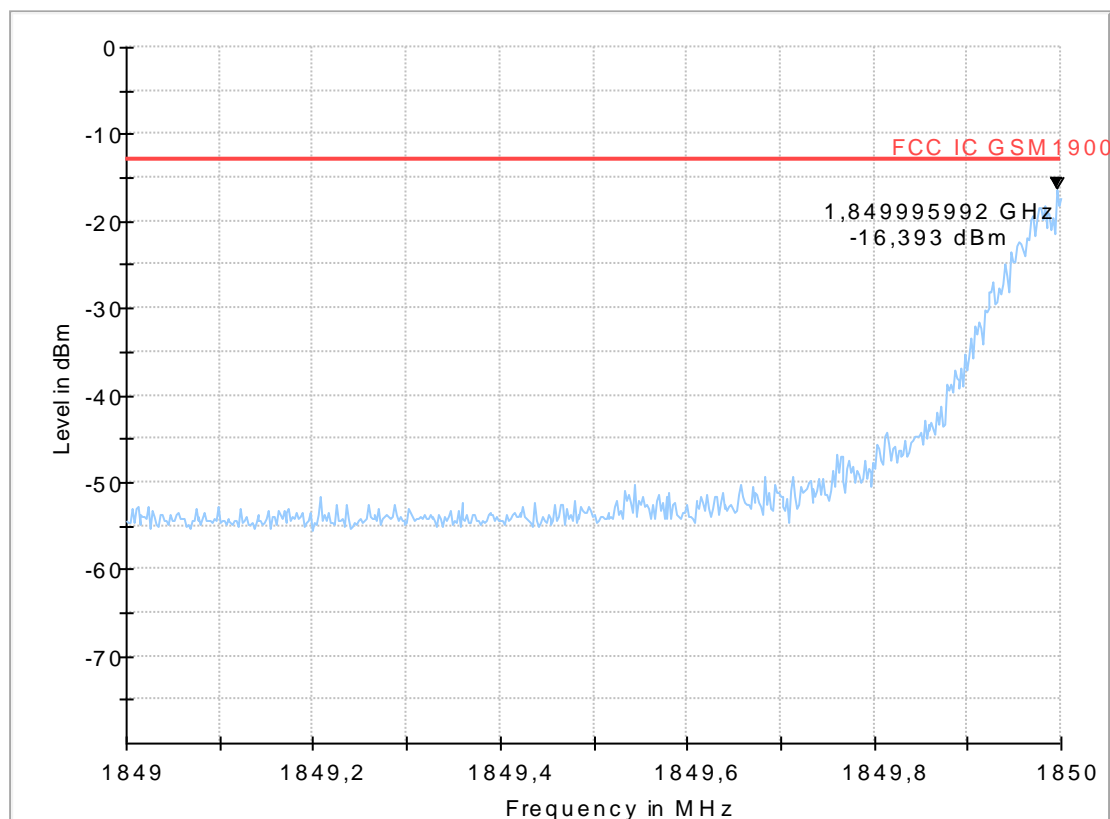
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 512 (UL = 1850.2MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 46%RH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.07b_BE_R_Ch512_GPRS

Common Information

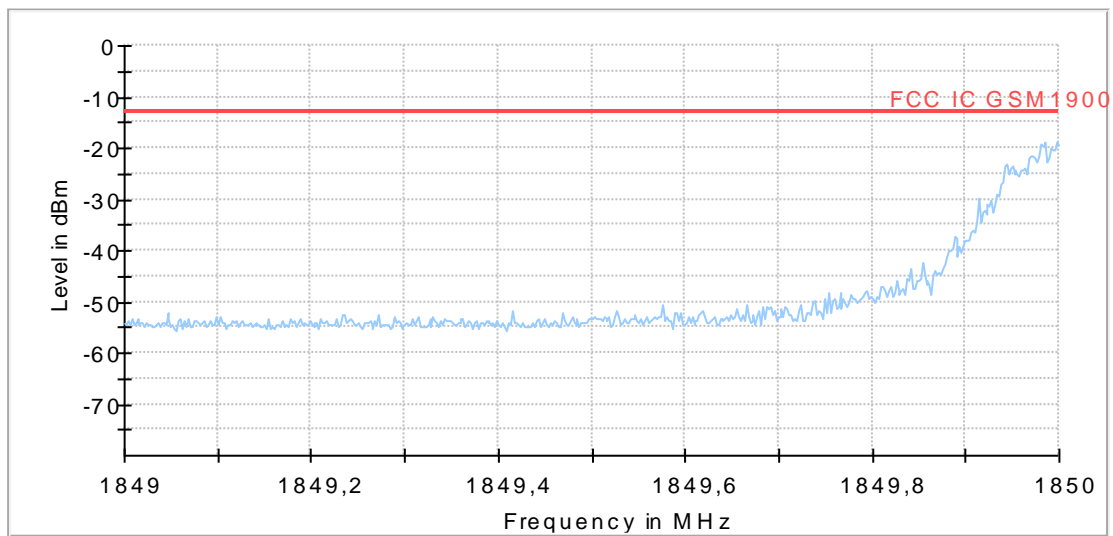
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 512 (UL = 1850.2MHz),661(UL = 1880.0MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	DUT laying

Full Spectrum



9.08a_BE_R_Ch810_GPRS

Common Information

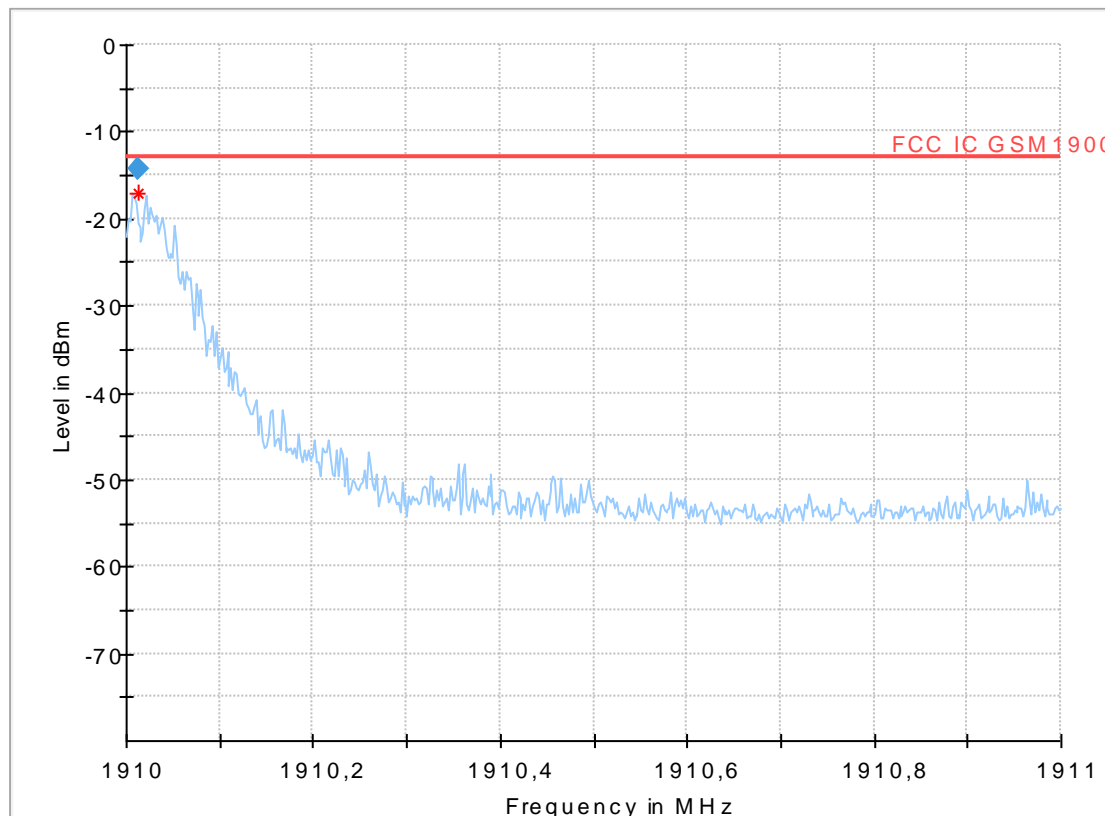
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 810 (UL = 1909.8MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	AFr
Comment:	DUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.012024	-14.40	13.00	1.40	10000.0	V	339.0	0.0	-62.8

9.08b_BE_R_Ch810_GPRS

Common Information

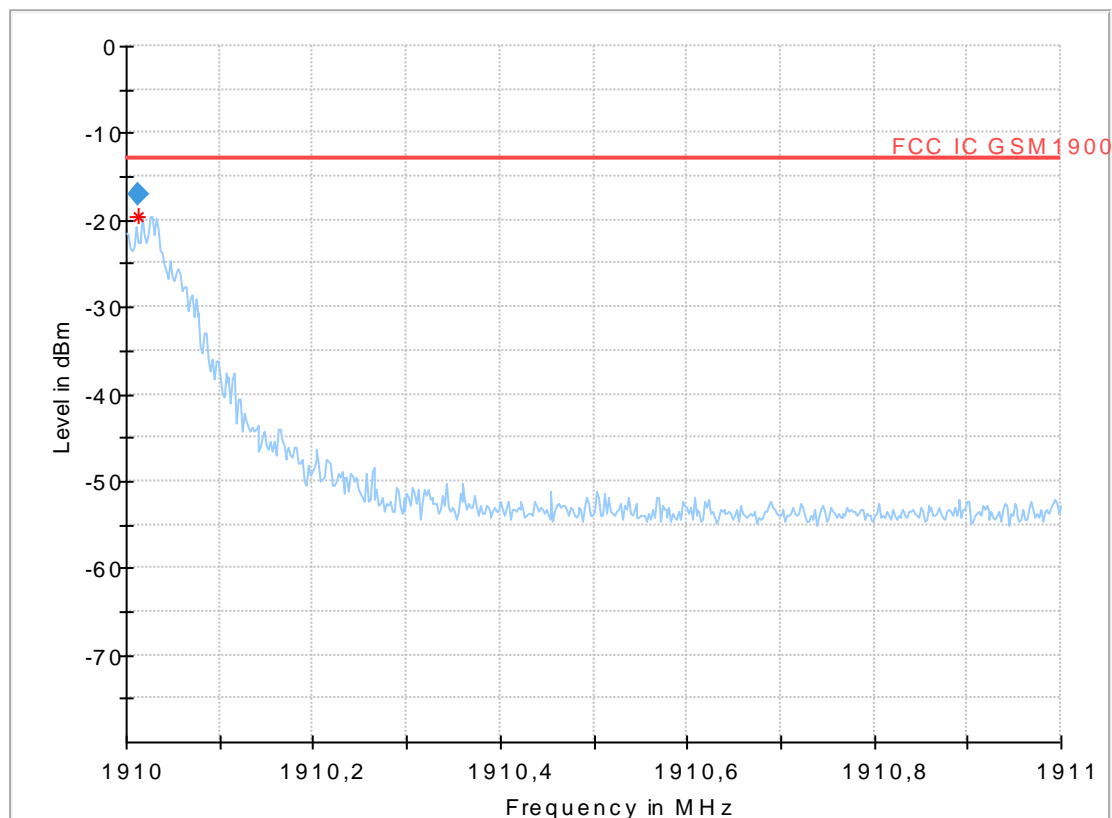
Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 810 (UL = 1909.8MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator:	SRa

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1233-0

HW version:	V1233-0_Ver.1
SW version:	MPSS.TH.2.0.2-00220
Serial number:	004402580050122
Connected Interfaces:	Kathrein Cellular/GNSS antenna, Kathrein Cellular antenna, microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	DUT laying

Full Spectrum

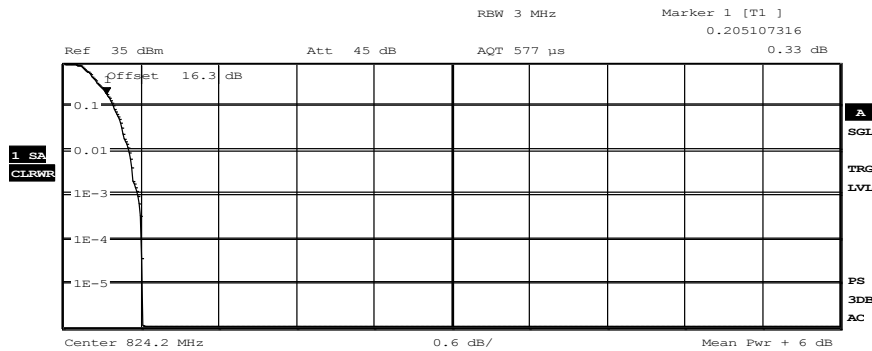


Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.012024	-16.97	-13.00	3.97	10000.0	3.000	V	306.0	0.0	-62.8

1.7. Power Measurements and PAPR-Value

1.7.1. GSM 850 (GMSK Modulation)

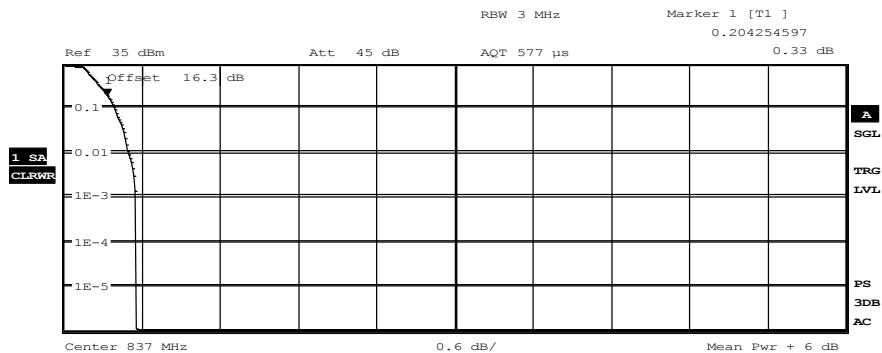


Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

Trace 1	
Mean	31.33 dBm
Peak	31.94 dBm
Crest	0.61 dB
10 %	0.38 dB
1 %	0.51 dB
.1 %	0.58 dB
.01 %	0.61 dB

Date: 22.MAY.2017 17:31:08

Diagram 1: Channel 128

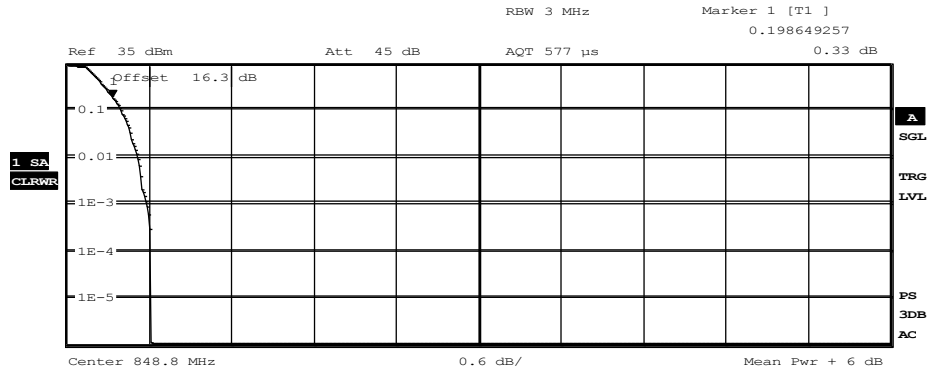


Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

Trace 1	
Mean	31.53 dBm
Peak	32.08 dBm
Crest	0.56 dB
10 %	0.39 dB
1 %	0.50 dB
.1 %	0.55 dB
.01 %	0.56 dB

Date: 22.MAY.2017 17:32:53

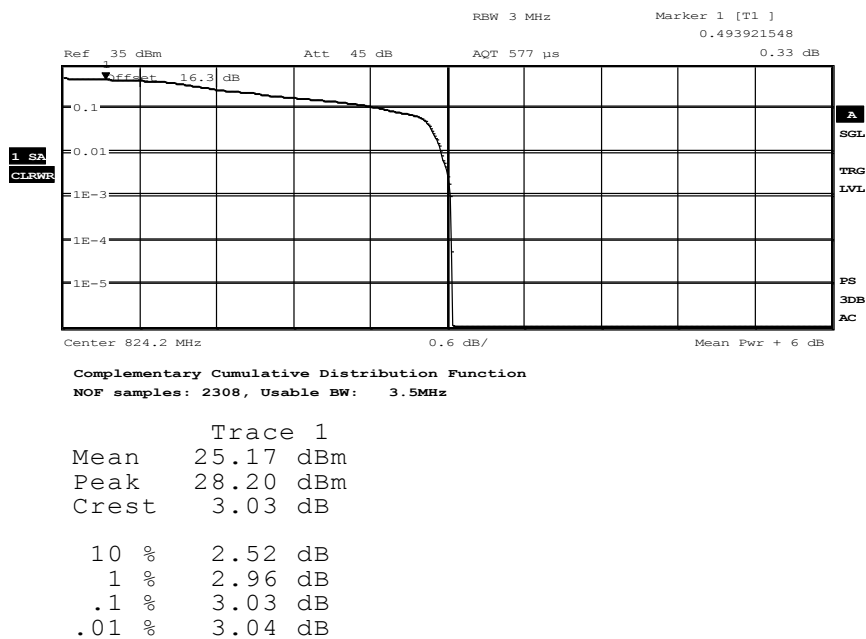
Diagram 2: Channel 192



Date: 22.MAY.2017 17:34:25

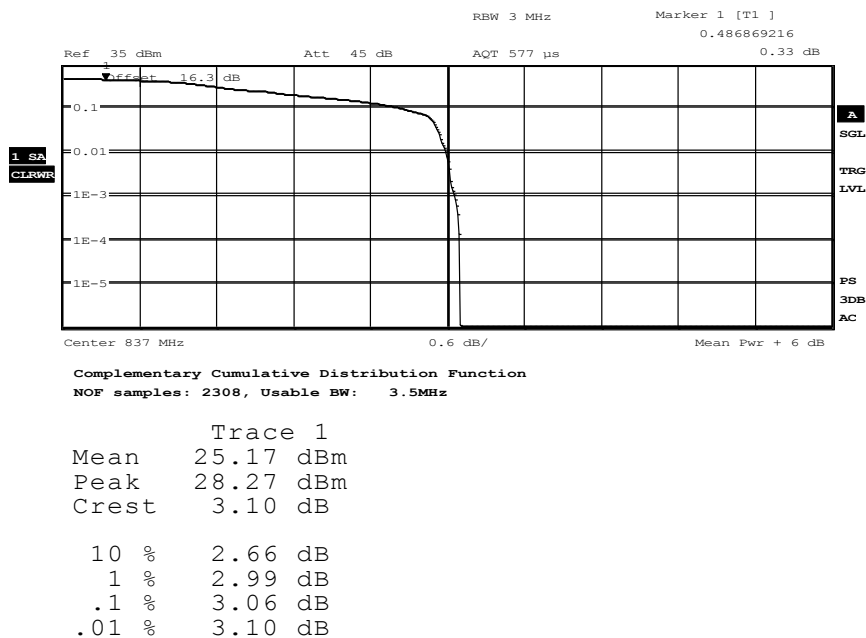
Diagram 3: Channel 251

1.7.2. GSM 850 (8-PSK Modulation)



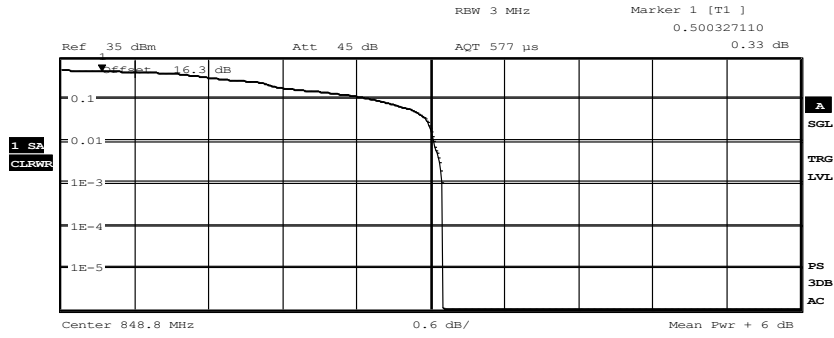
Date: 22.MAY.2017 17:40:01

Diagram 4: Channel 128



Date: 22.MAY.2017 17:41:41

Diagram 5: Channel 192



Complementary Cumulative Distribution Function
 NOF samples: 2308, Usable BW: 3.5MHz

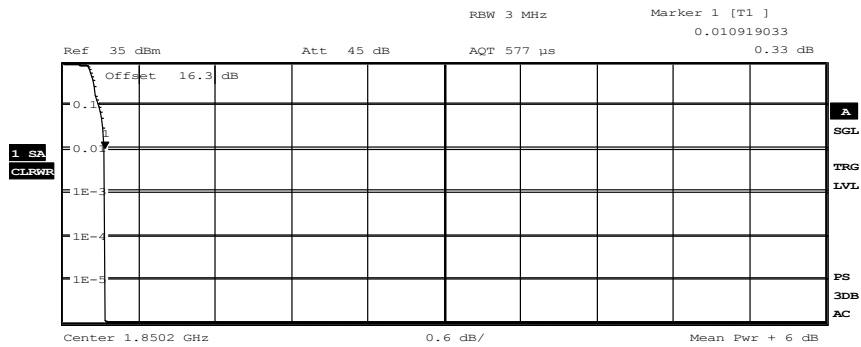
Trace 1
 Mean 25.24 dBm
 Peak 28.34 dBm
 Crest 3.10 dB

10 %	2.56 dB
1 %	3.03 dB
.1 %	3.10 dB
.01 %	3.11 dB

Date: 22.MAY.2017 17:43:23

Diagram 6: Channel 251

1.7.3. GSM 1900 (GMSK Modulation)

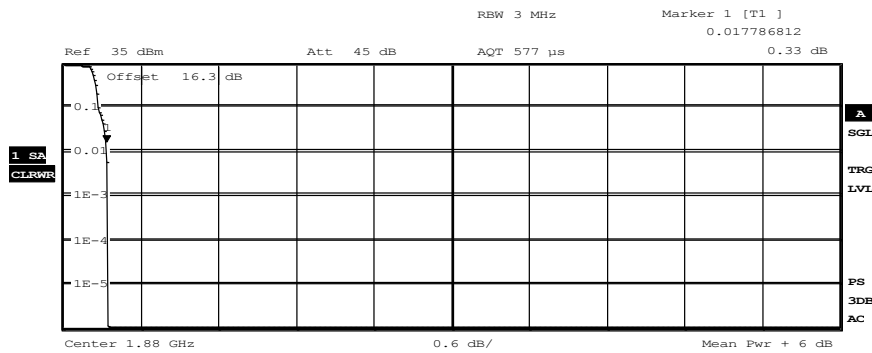


Complementary Cumulative Distribution Function
 NOF samples: 2308, Usable BW: 3.5MHz

Trace 1	
Mean	29.14 dBm
Peak	29.47 dBm
Crest	0.33 dB
10 %	0.29 dB
1 %	0.33 dB
.1 %	0.34 dB
.01 %	0.34 dB

Date: 22.MAY.2017 17:50:00

Diagram 7: Channel 512

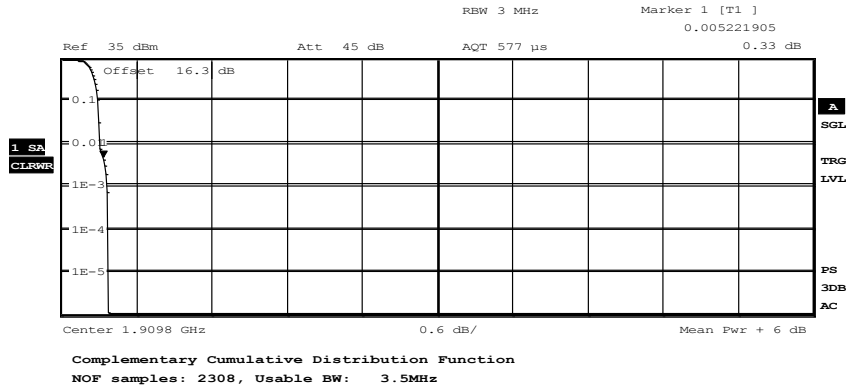


Complementary Cumulative Distribution Function
 NOF samples: 2308, Usable BW: 3.5MHz

Trace 1	
Mean	29.06 dBm
Peak	29.40 dBm
Crest	0.34 dB
10 %	0.27 dB
1 %	0.34 dB
.1 %	0.35 dB
.01 %	0.35 dB

Date: 22.MAY.2017 17:51:23

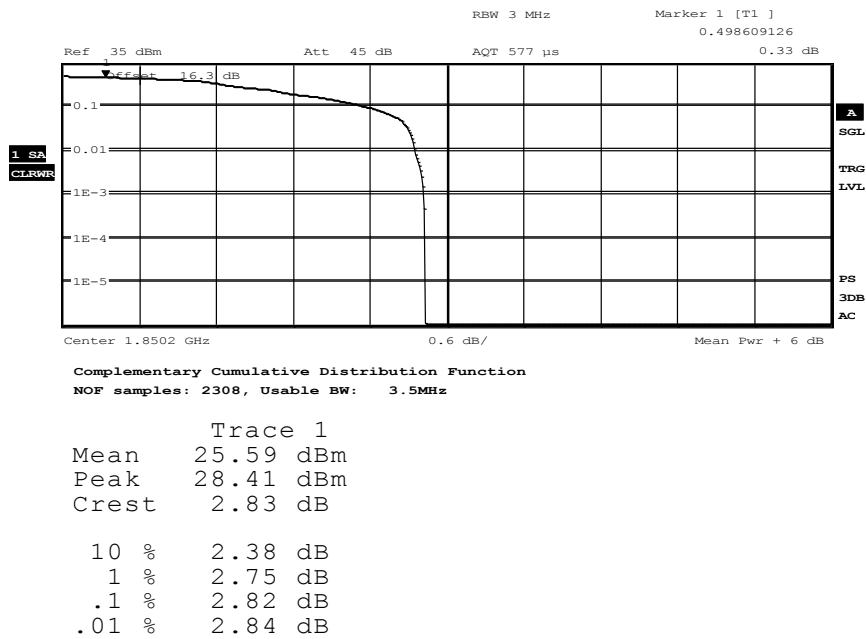
Diagram 8: Channel 661



Date: 22.MAY.2017 17:53:05

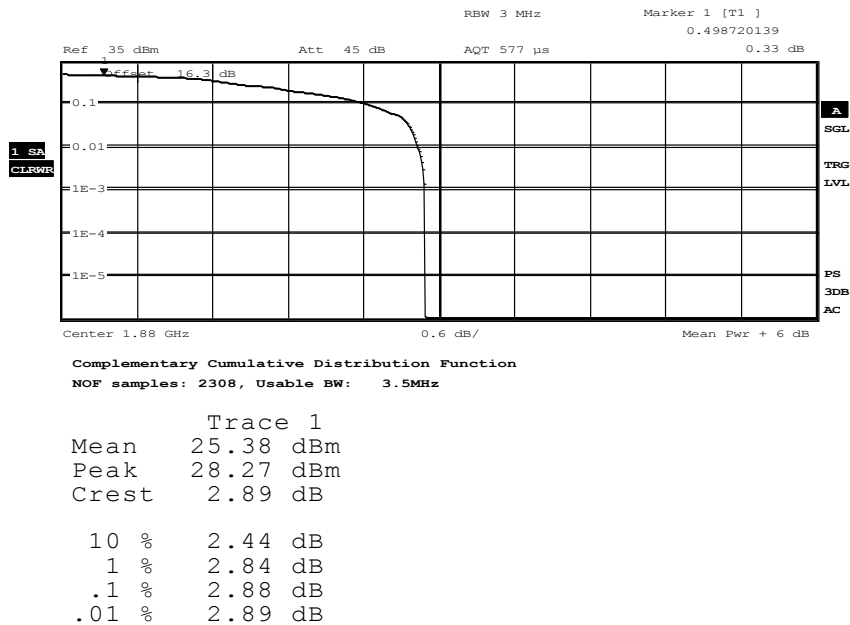
Diagram 9: Channel 810

1.7.4. GSM 1900 (8-PSK Modulation)



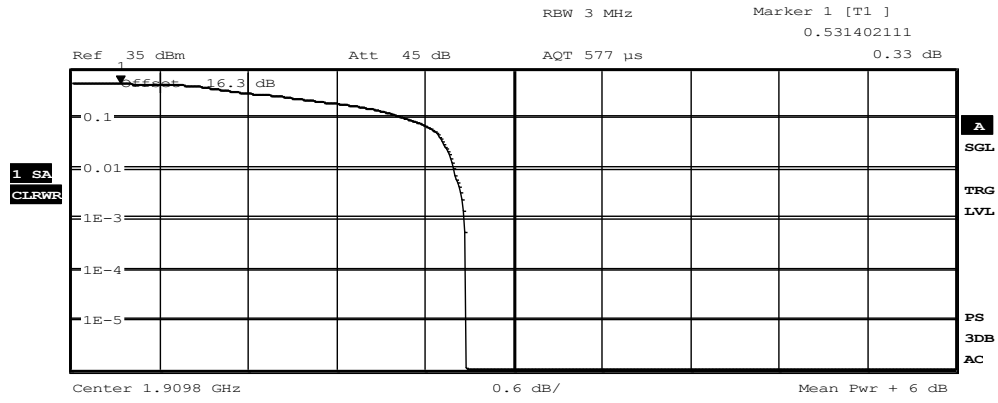
Date: 22.MAY.2017 17:57:53

Diagram 10: Channel 512



Date: 22.MAY.2017 18:00:56

Diagram 11: Channel 661



Complementary Cumulative Distribution Function
 NOF samples: 2308, Usable BW: 3.5MHz

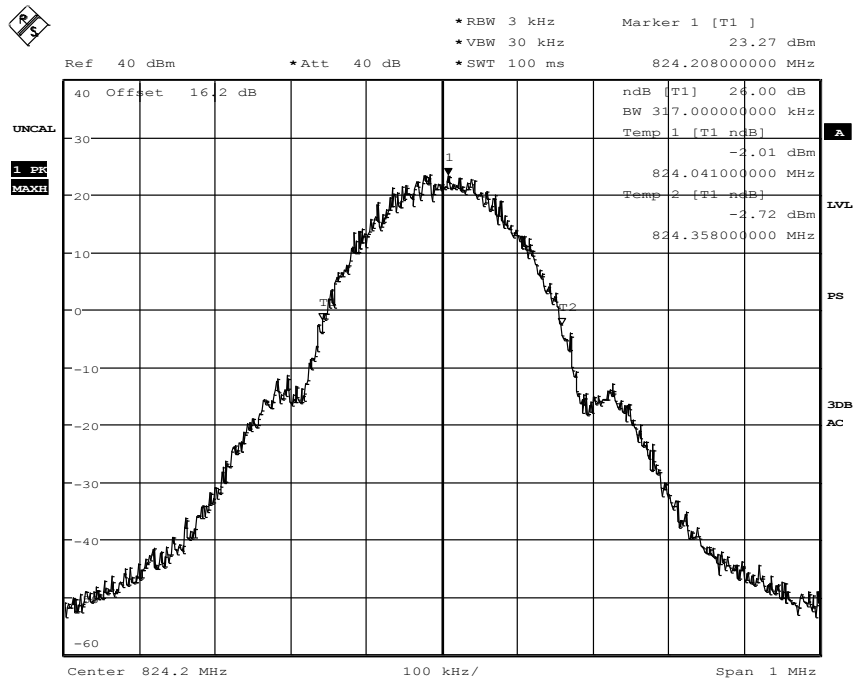
Trace 1	
Mean	25.53 dBm
Peak	28.20 dBm
Crest	2.67 dB
10 %	2.29 dB
1 %	2.60 dB
.1 %	2.67 dB
.01 %	2.68 dB

Date: 22.MAY.2017 18:06:04

Diagram 12: Channel 810

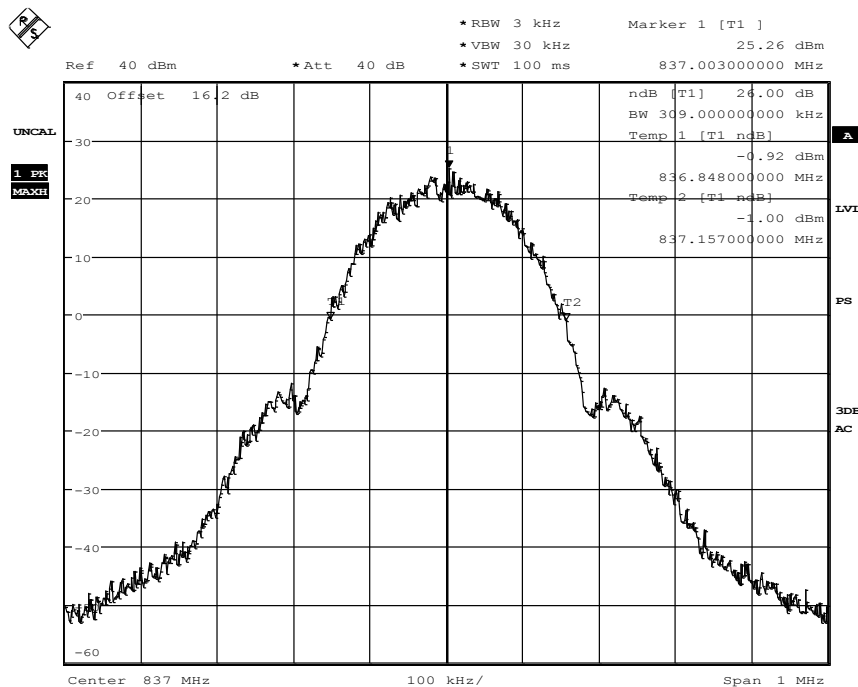
1.8. 26dBc Emission bandwidth

1.8.1. GPRS 850 MHz TX-Mode



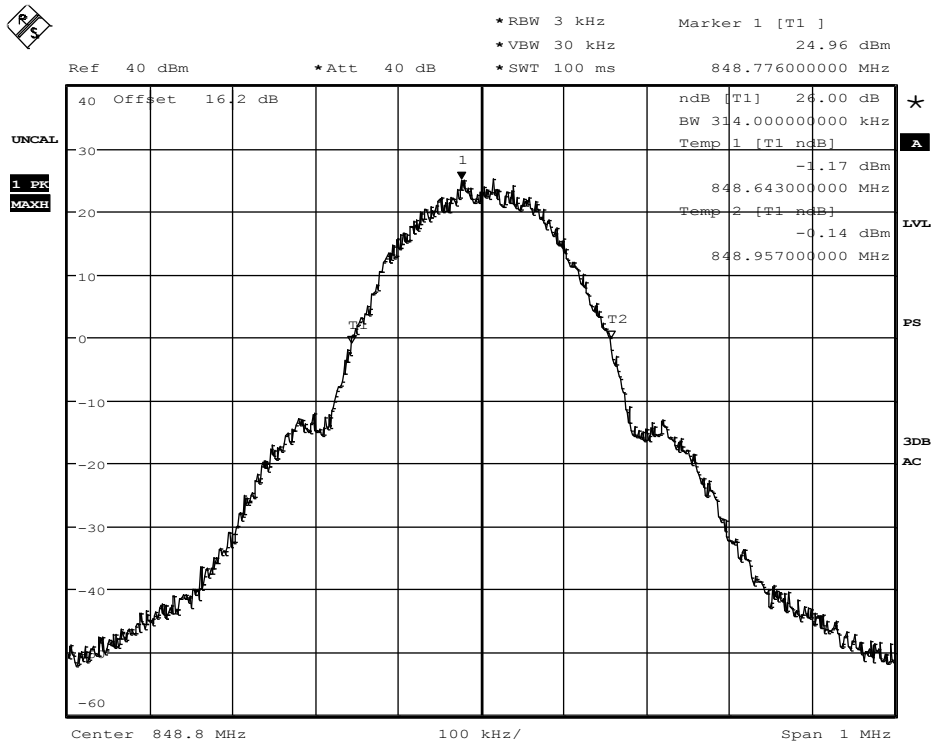
Date: 22.MAY.2017 15:55:32

Diagram 13: Channel 128



Date: 22.MAY.2017 15:58:31

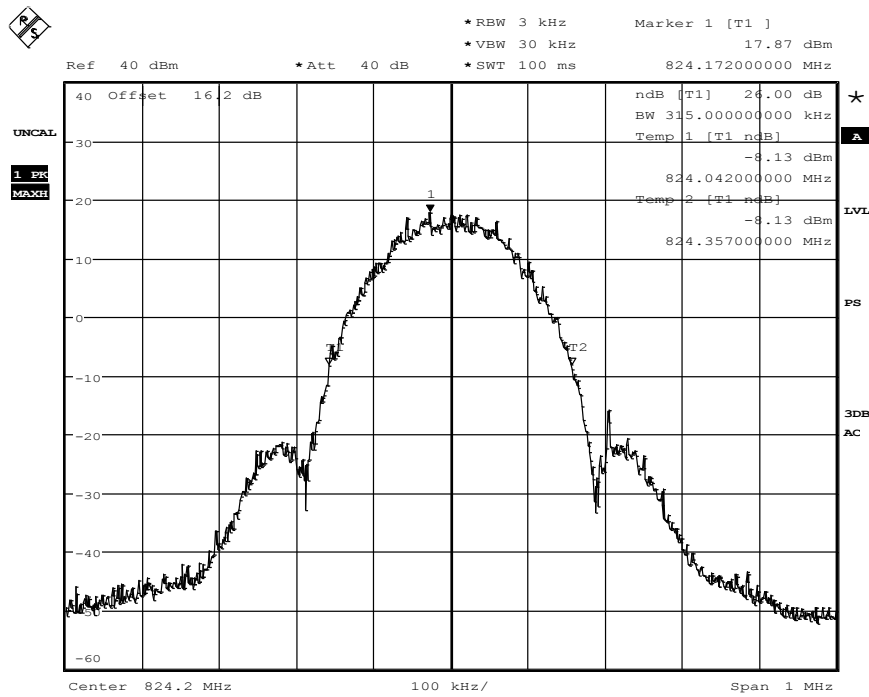
Diagram 14: Channel 192



Date: 22.MAY.2017 16:02:25

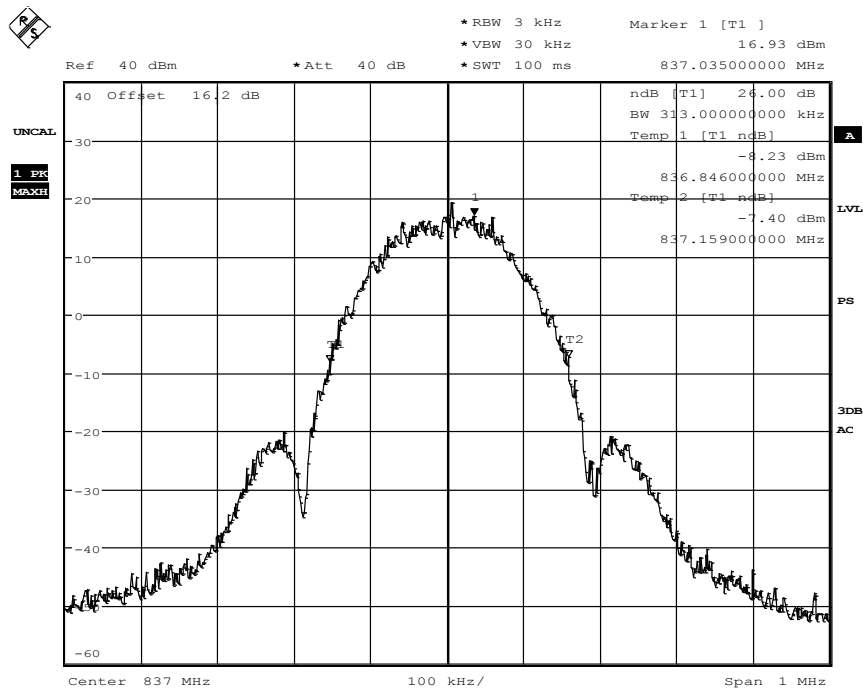
Diagram 15: Channel 251

1.8.2. E-GPRS 850 MHz TX-Mode



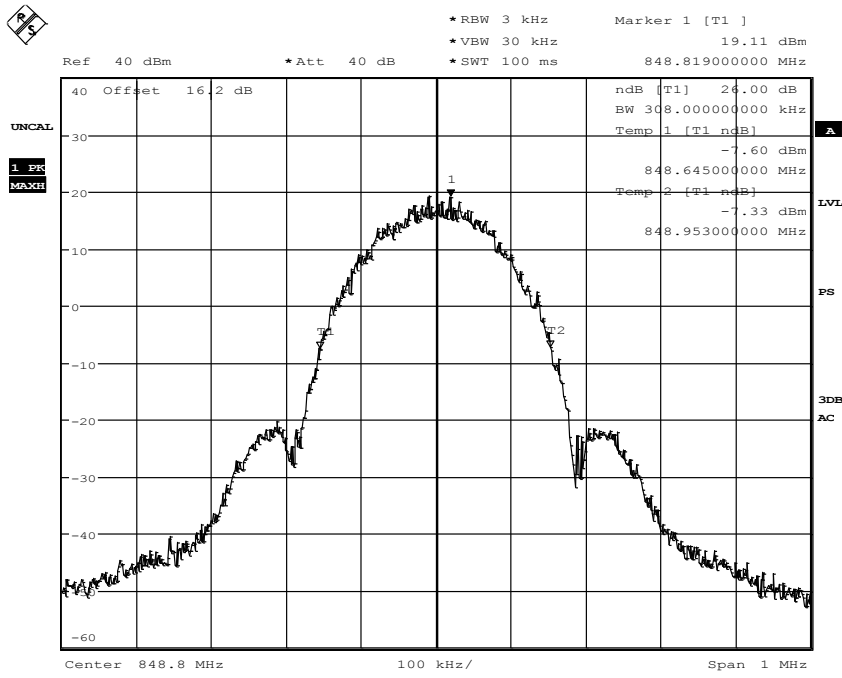
Date: 22.MAY.2017 15:43:50

Diagram 16: Channel 128



Date: 22.MAY.2017 15:47:13

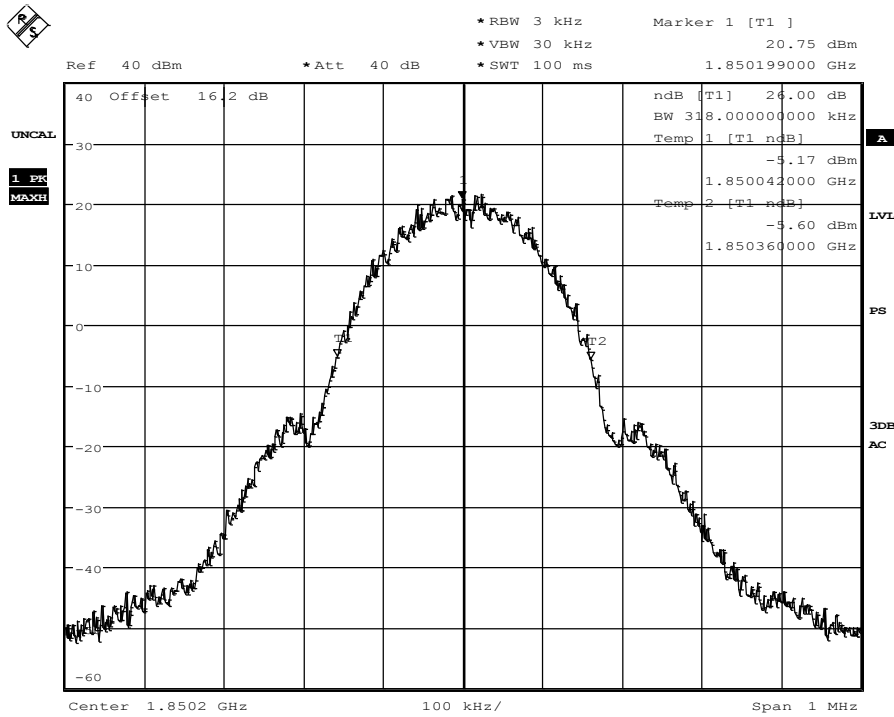
Diagram 17: Channel 192



Date: 22.MAY.2017 15:51:30

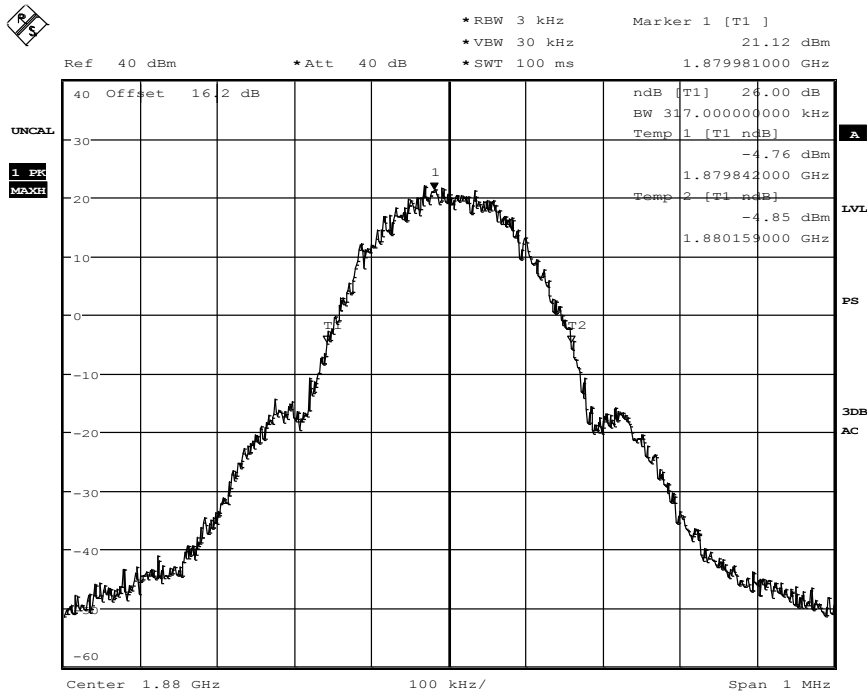
Diagram 18: Channel 251

1.8.3. GPRS 1900 MHz TX-Mode



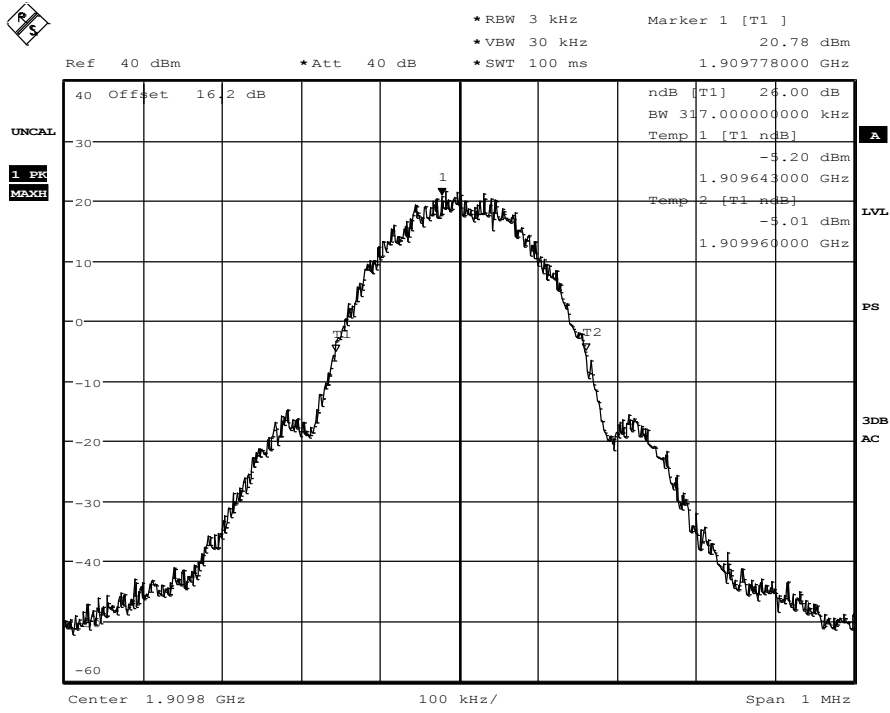
Date: 22.MAY.2017 16:09:55

Diagram 19: Channel 512



Date: 22.MAY.2017 16:13:27

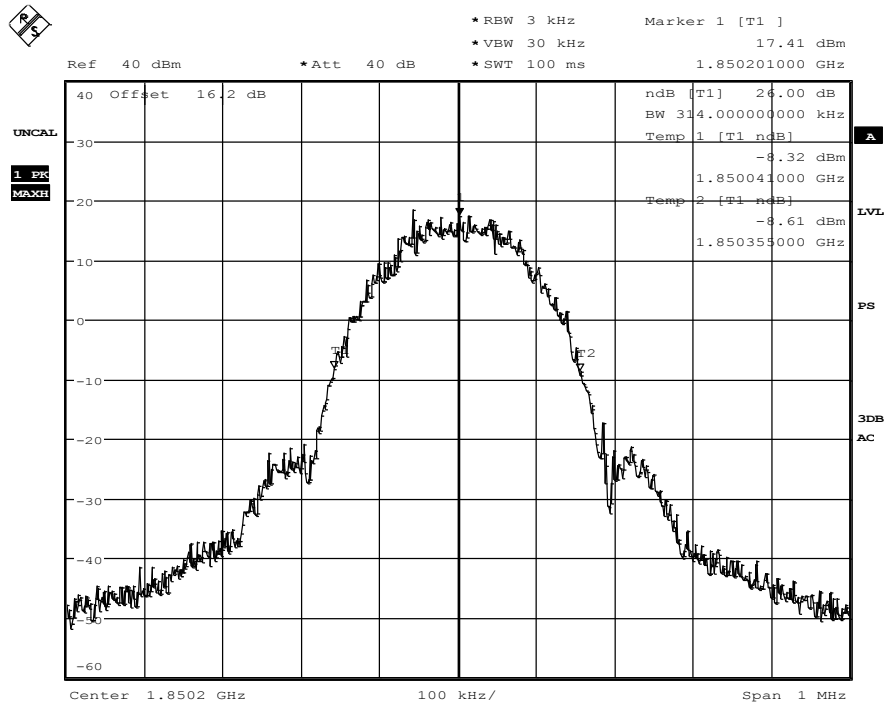
Diagram 20: Channel 661



Date: 22.MAY.2017 16:15:24

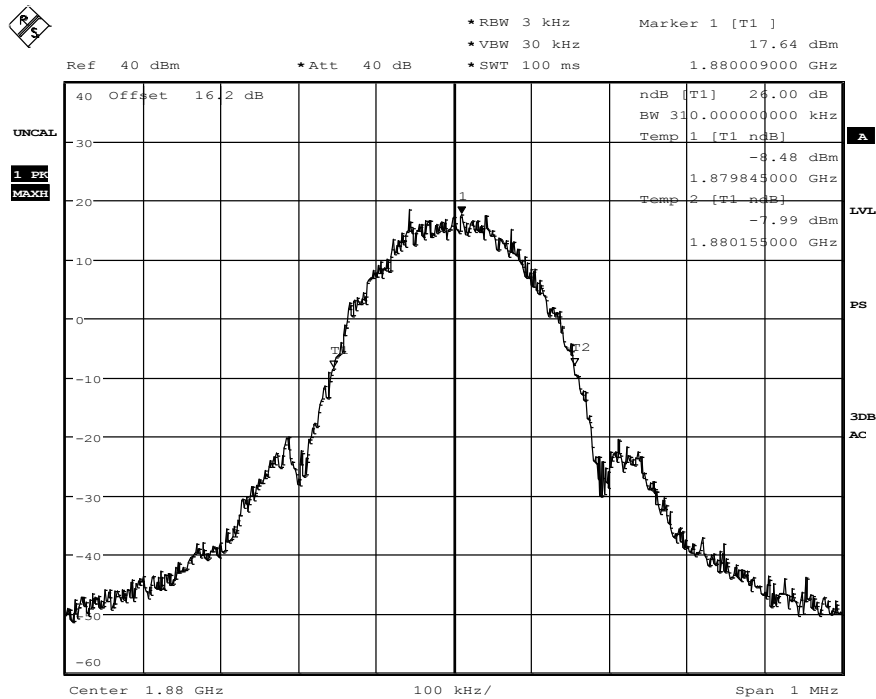
Diagram 21: Channel 810

1.8.4. E-GPRS 1900 MHz TX-Mode



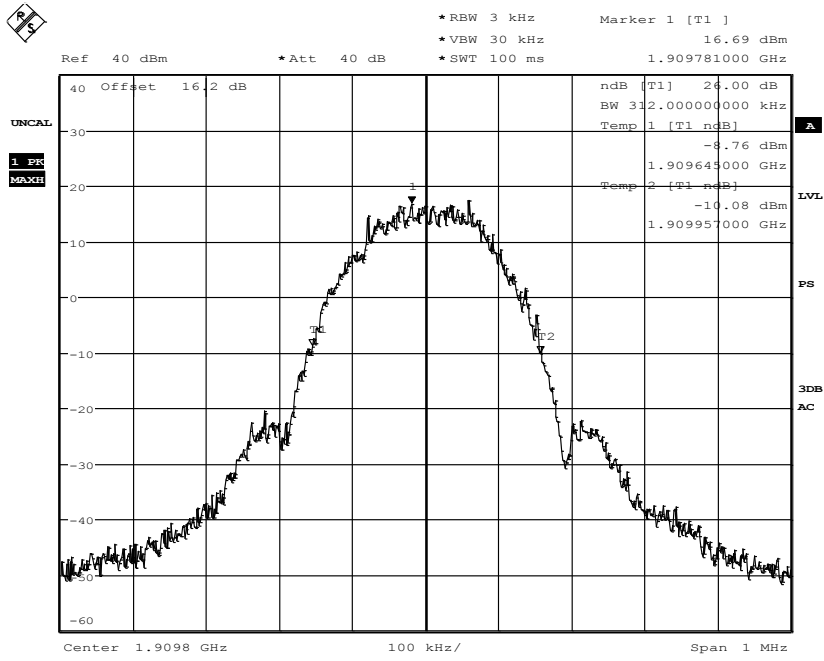
Date: 22.MAY.2017 16:20:46

Diagram 22: Channel 512



Date: 22.MAY.2017 16:22:52

Diagram 23: Channel 661

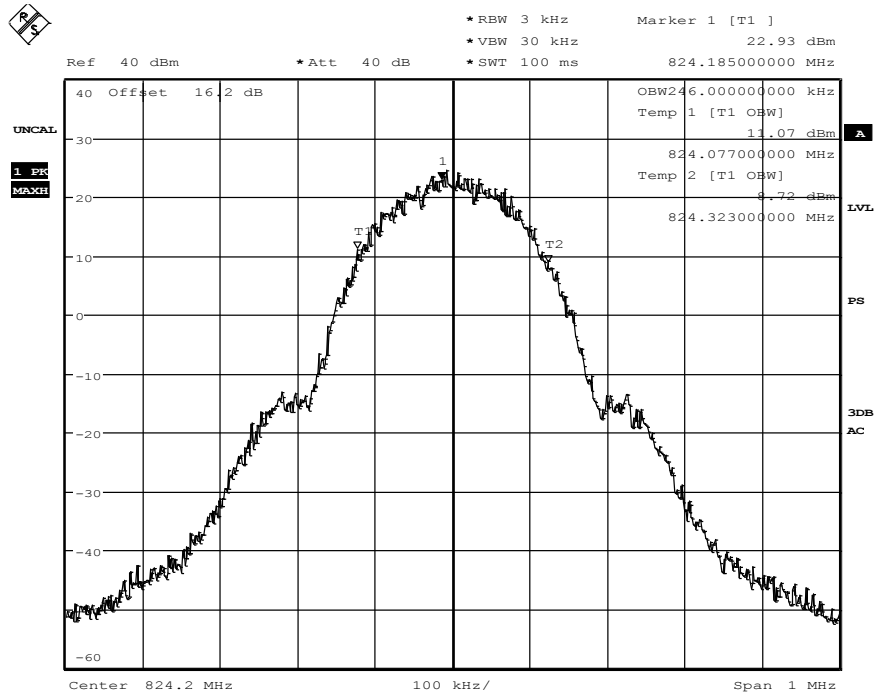


Date: 22.MAY.2017 16:25:41

Diagram 24: Channel 810

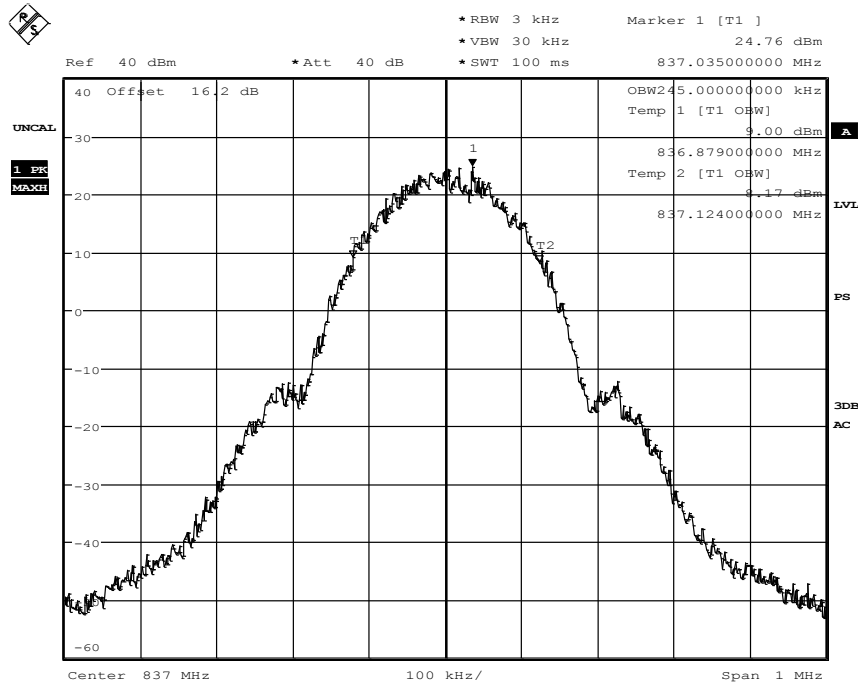
1.9. 99% Occupied bandwidth

1.9.1. GPRS 850 MHz TX-Mode



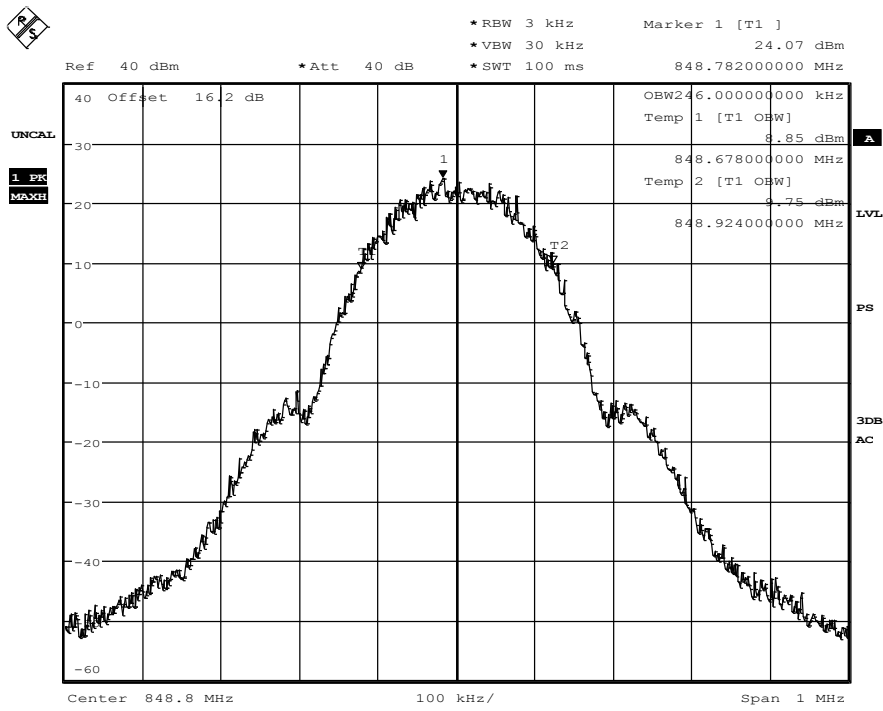
Date: 22.MAY.2017 16:32:53

Diagram 25: Channel 128



Date: 22.MAY.2017 16:35:57

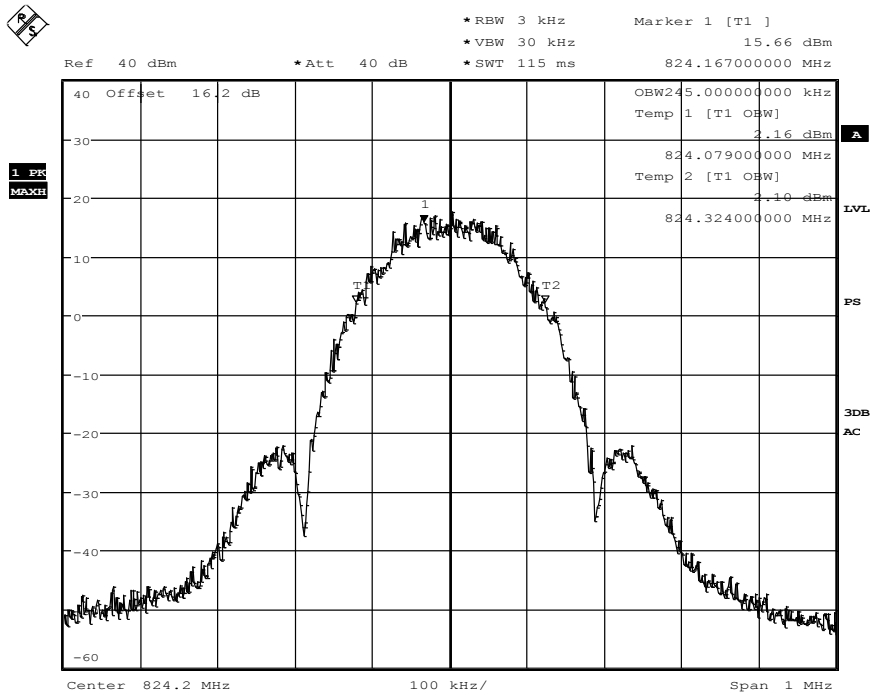
Diagram 26: Channel 192



Date: 22.MAY.2017 16:38:15

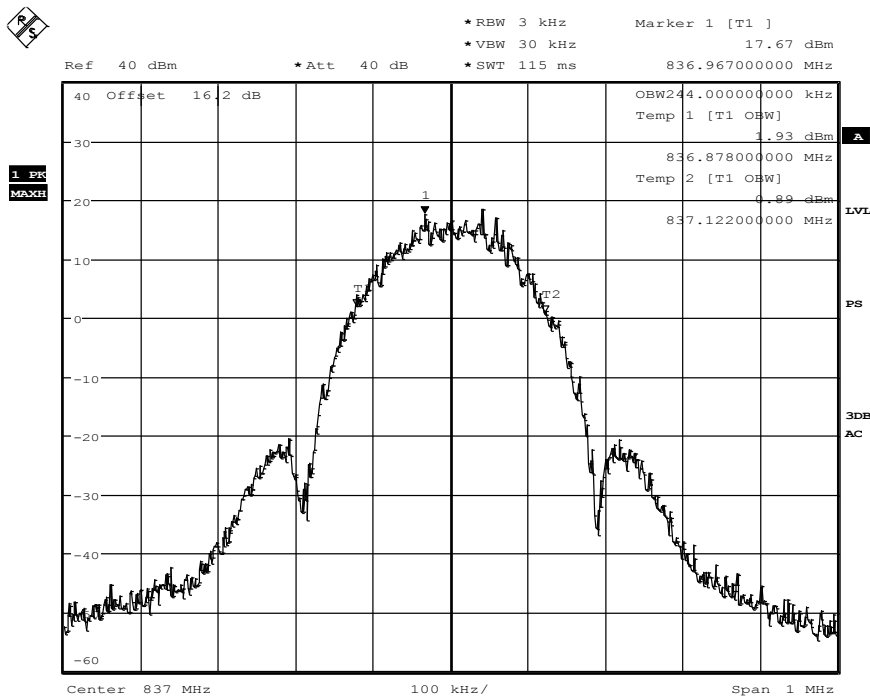
Diagram 27: Channel 251

1.9.2. E-GPRS 850 MHz TX-Mode



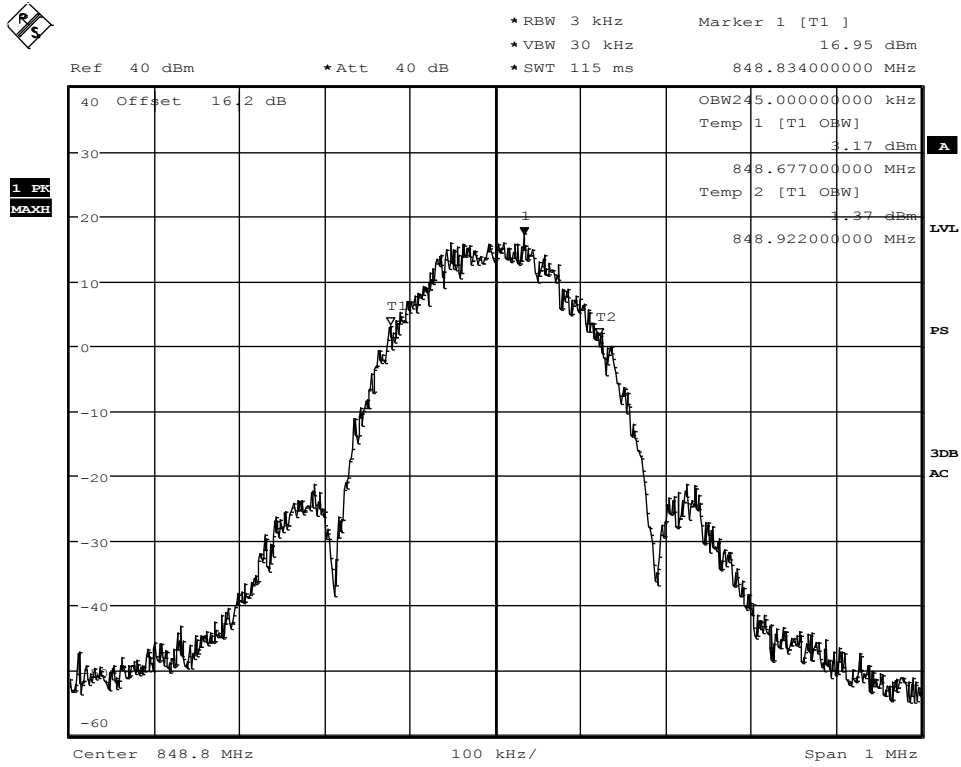
Date: 22.MAY.2017 16:45:16

Diagram 28: Channel 128



Date: 22.MAY.2017 16:47:14

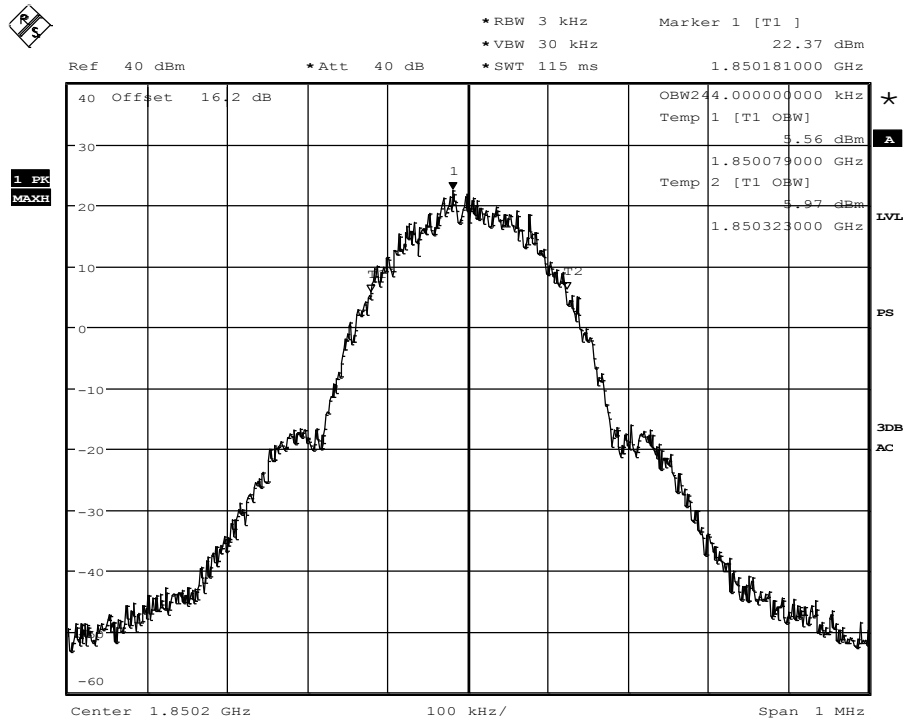
Diagram 29: Channel 192



Date: 22.MAY.2017 16:49:05

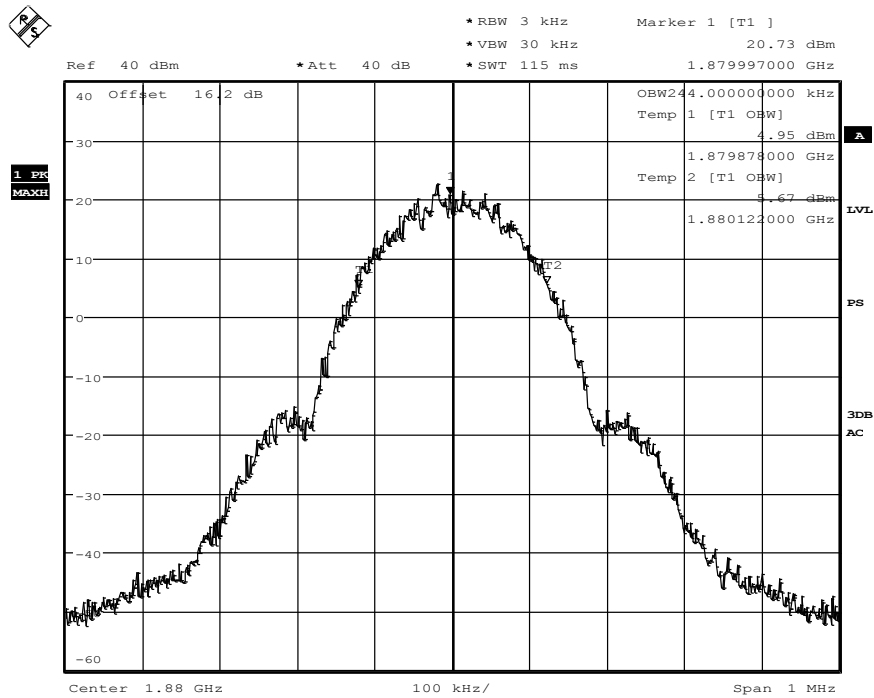
Diagram 30: Channel 251

1.9.3. GPRS 1900 MHz TX-Mode



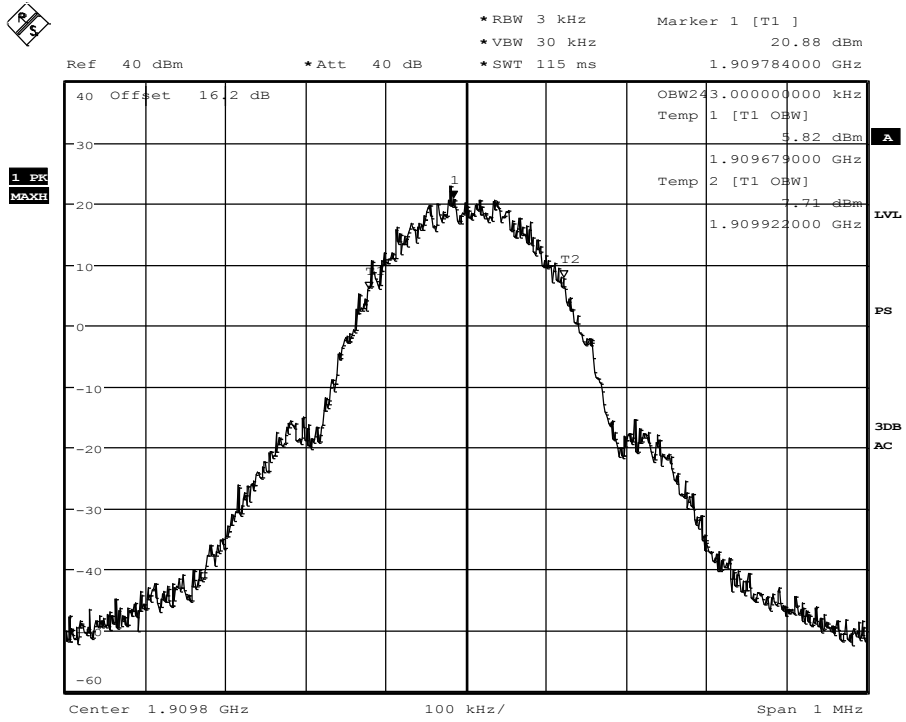
Date: 22.MAY.2017 16:53:23

Diagram 31: Channel 512



Date: 22.MAY.2017 16:55:20

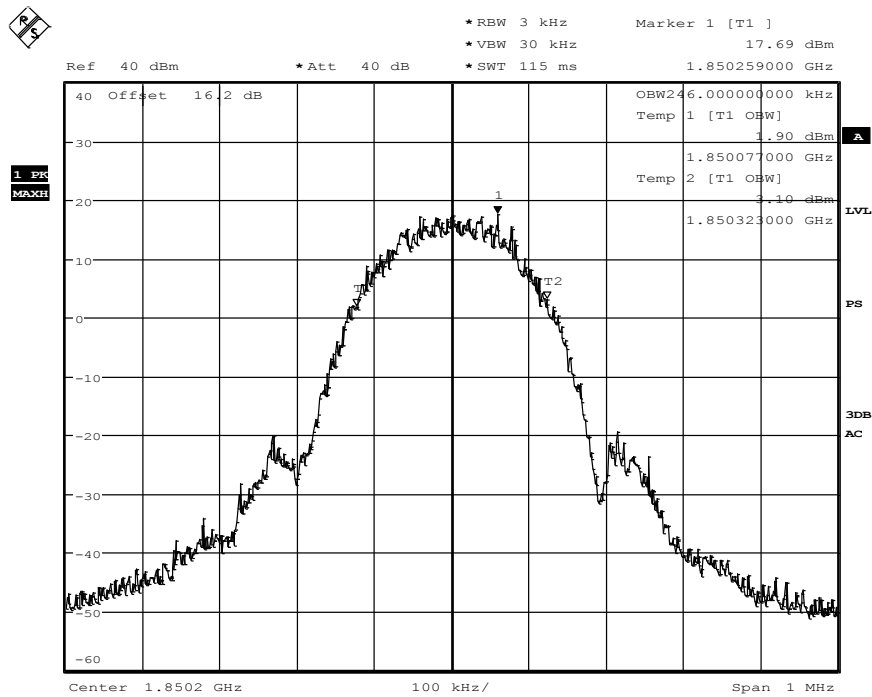
Diagram 32: Channel 661



Date: 22.MAY.2017 16:57:15

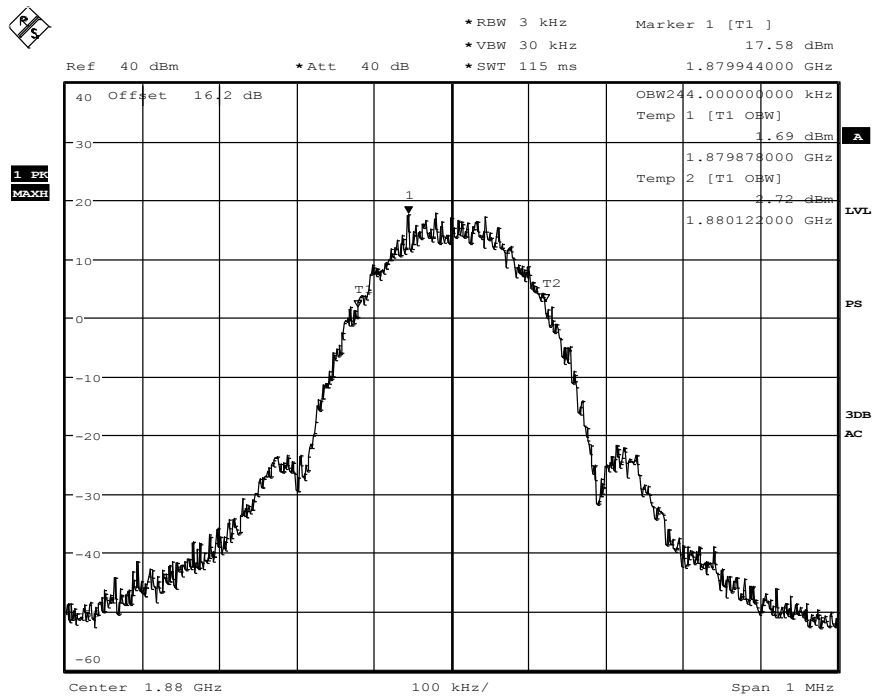
Diagram 33: Channel 810

1.9.4. E-GPRS 1900 MHz TX-Mode



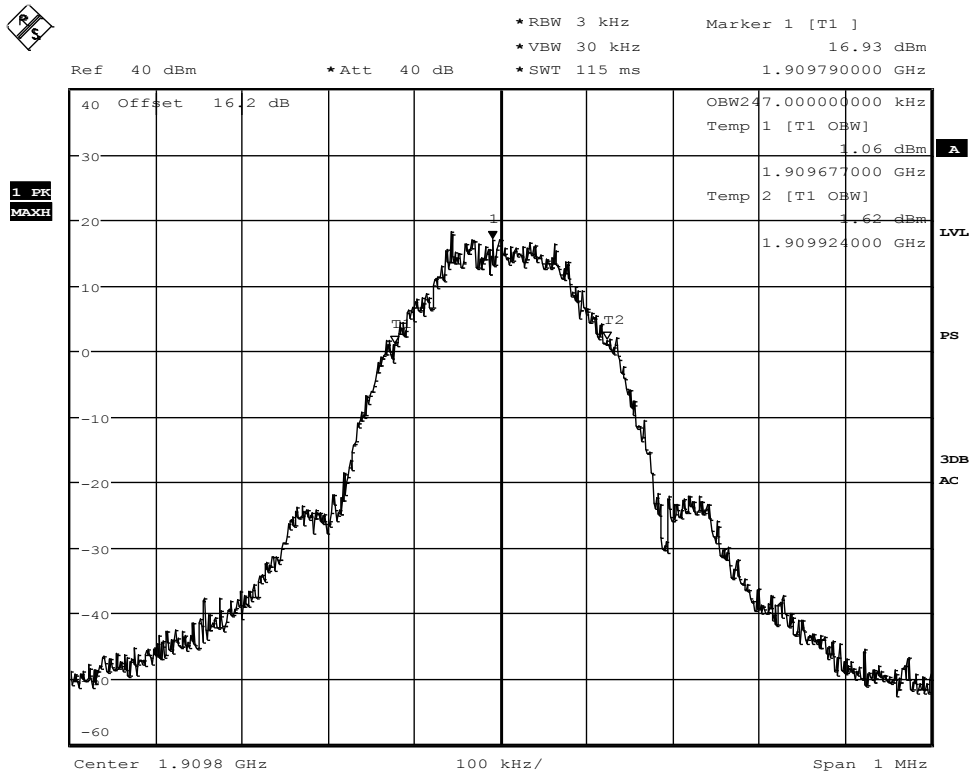
Date: 22.MAY.2017 17:02:26

Diagram 34: Channel 512



Date: 22.MAY.2017 17:03:59

Diagram 35: Channel 661



Date: 22.MAY.2017 17:06:04

Diagram 36: Channel 810

1.10. Spurious emissions conducted on 850MHz (GPRS operating mode)

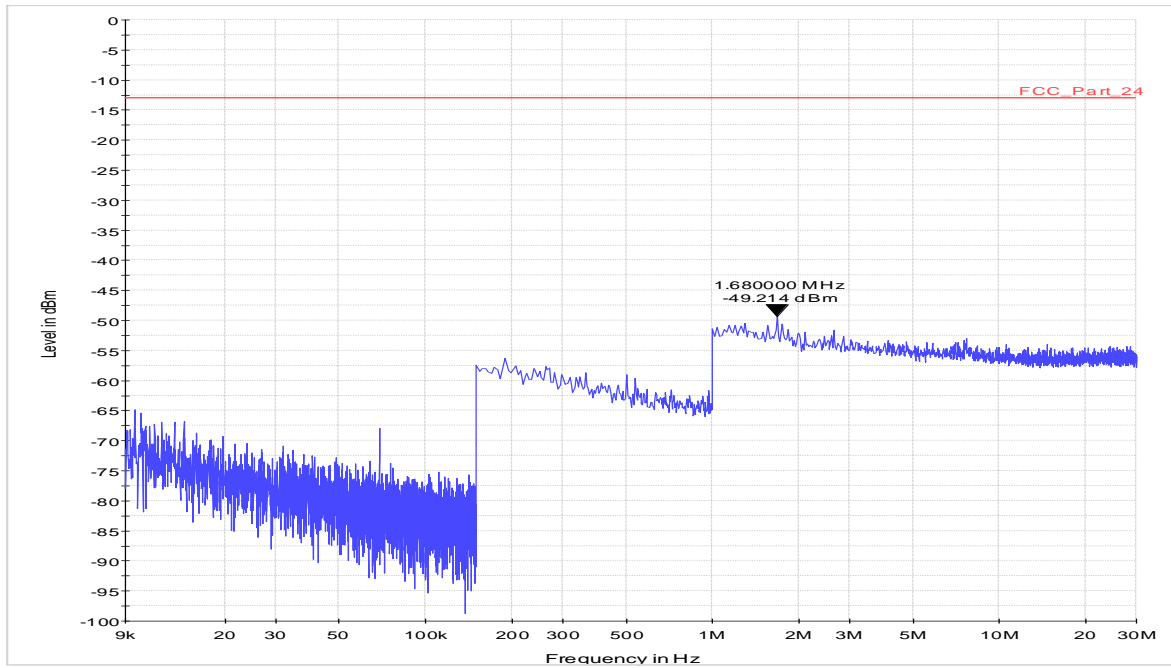


Diagram 36.01: Channel 128 – Sweep 1

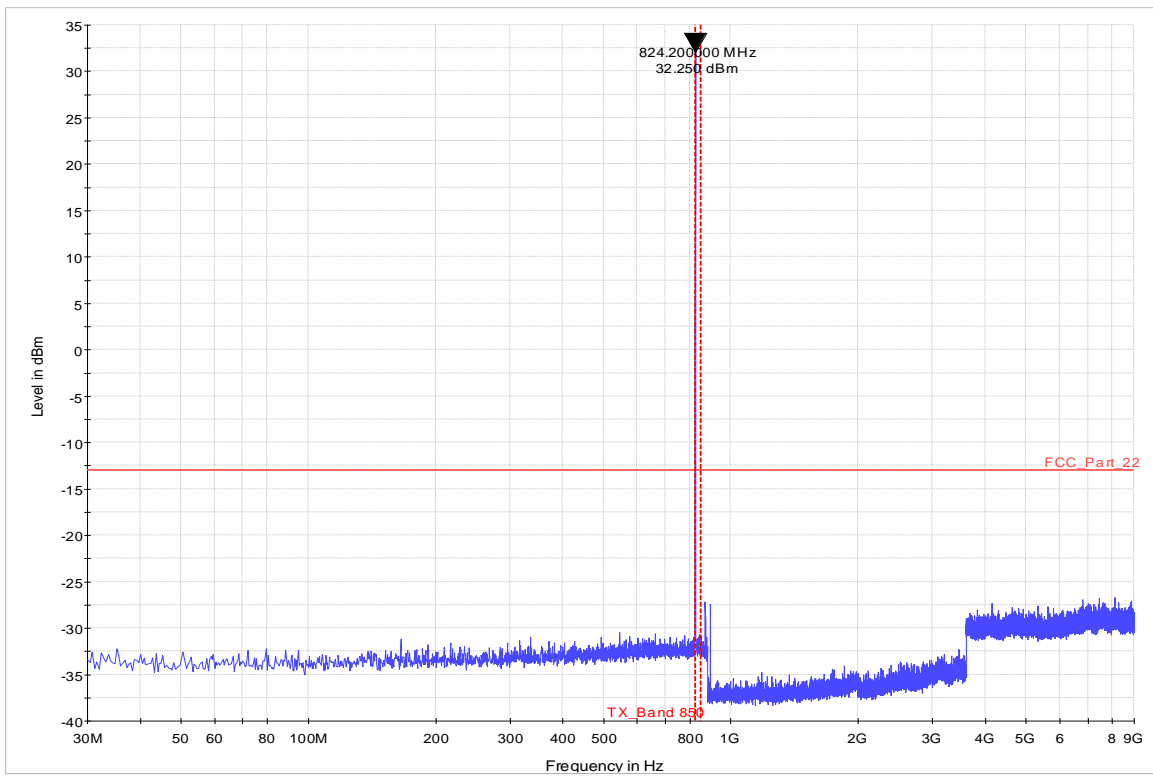


Diagram 36.02: Channel 128 – Sweep 2

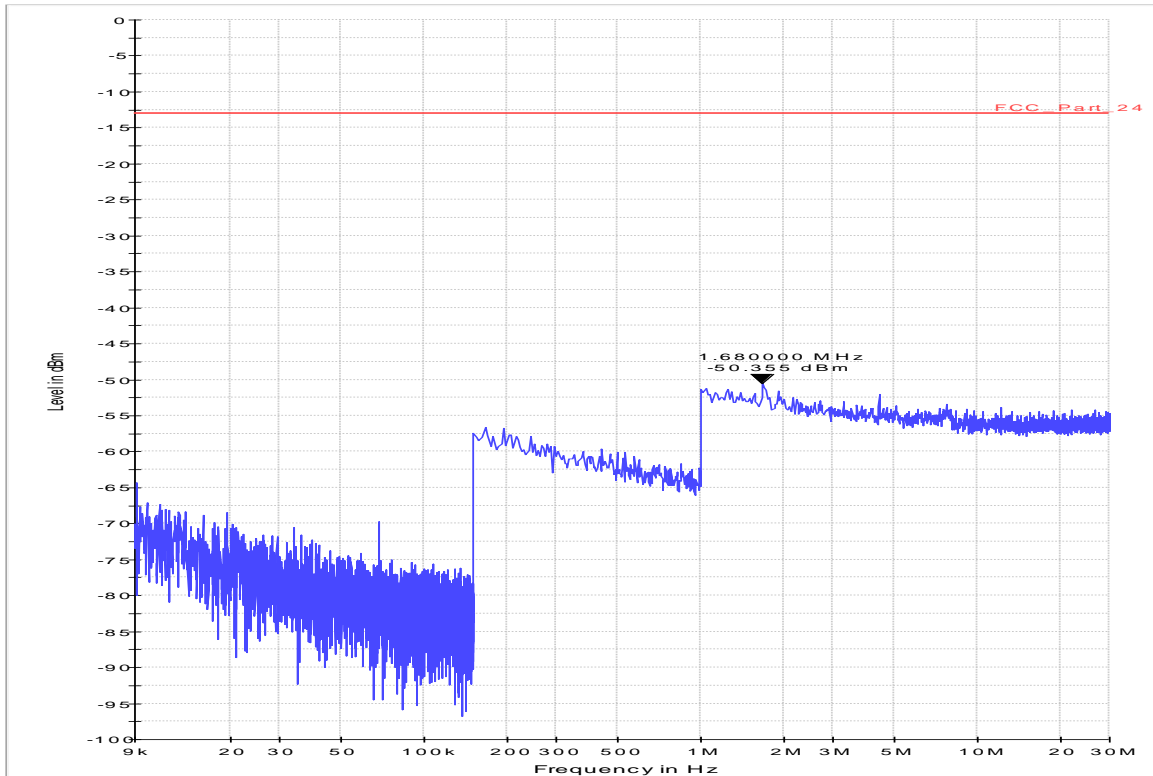


Diagram 36.03: Channel 192 – Sweep1

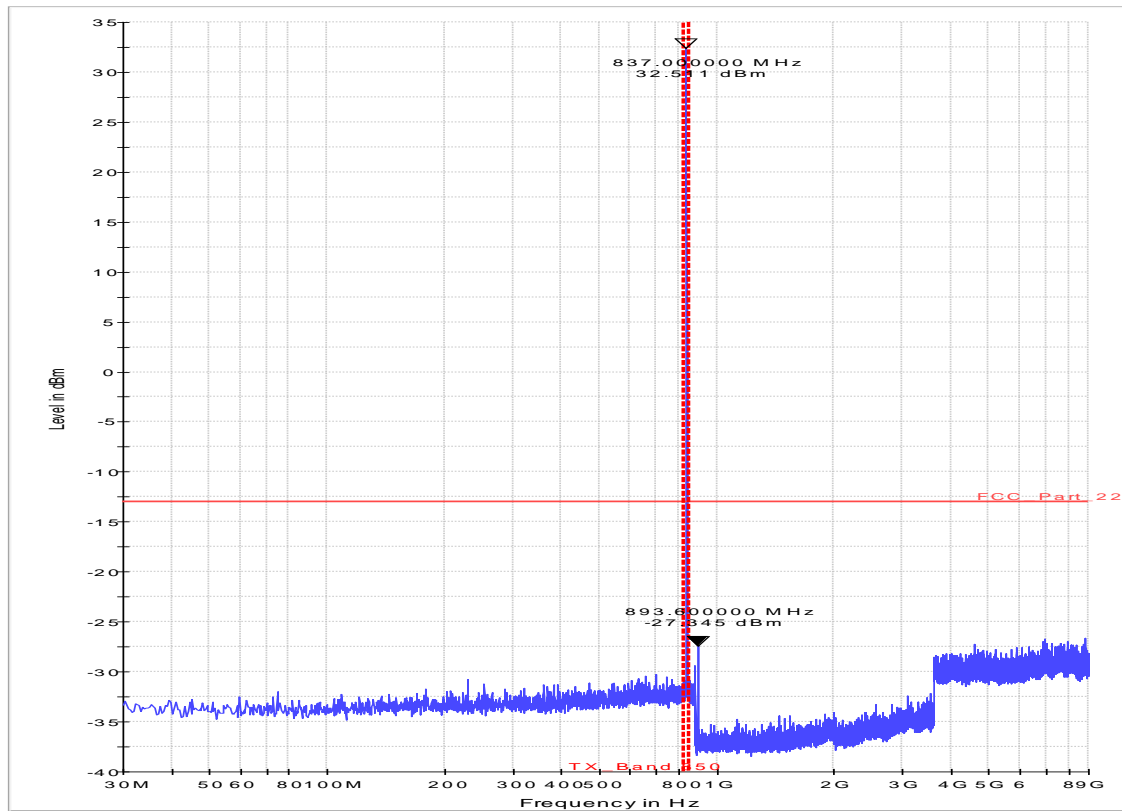


Diagram 36.04: Channel 192 – Sweep2

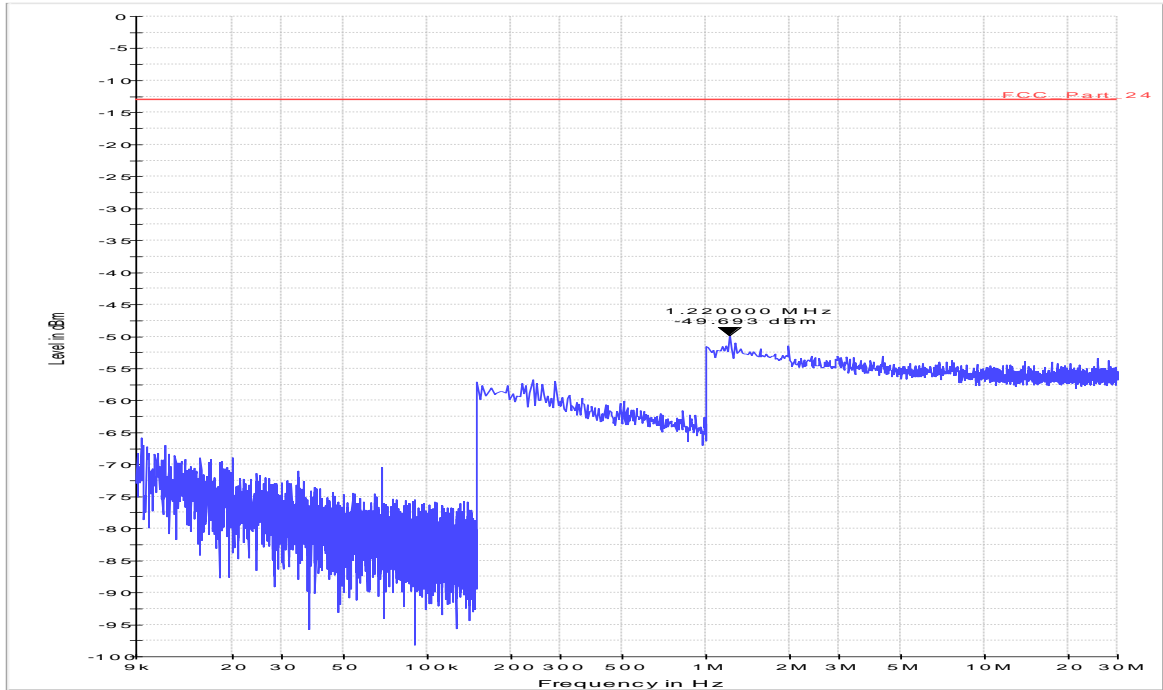


Diagram 36.05: Channel 251 – Sweep1

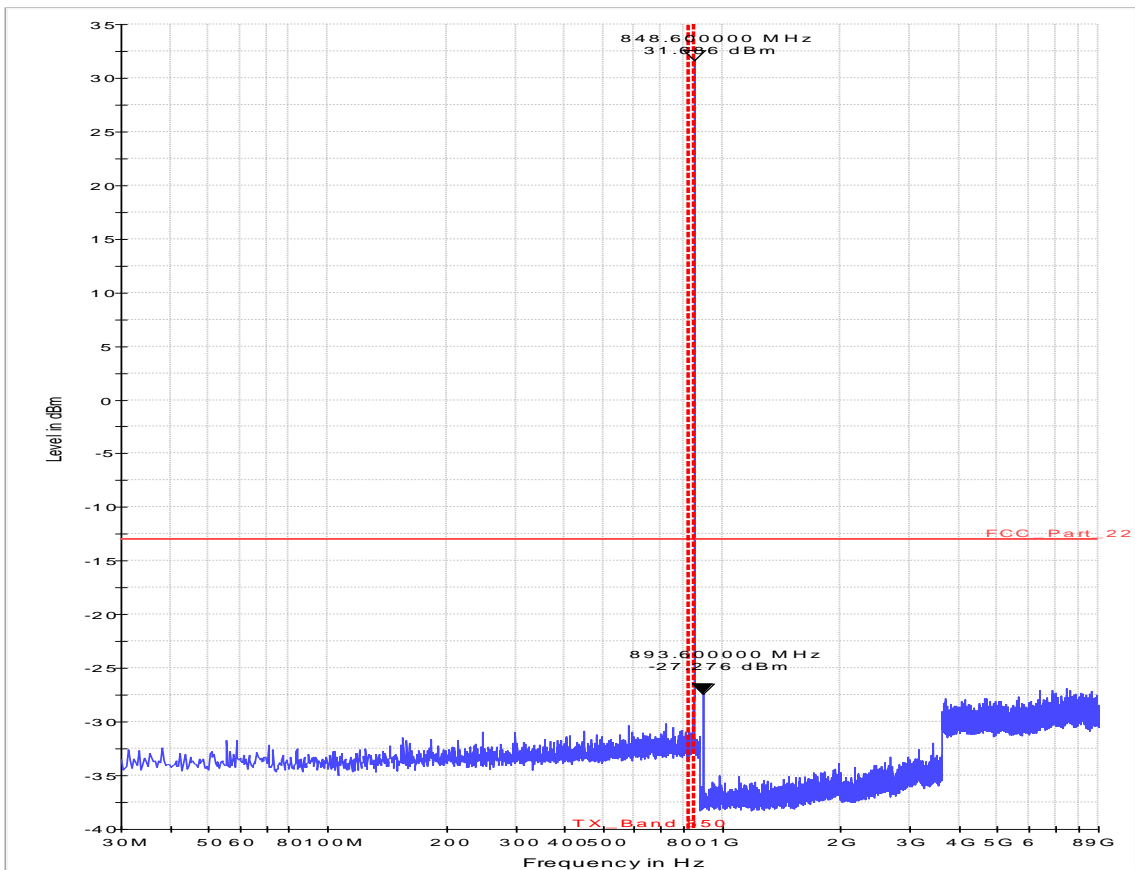


Diagram 36.06: Channel 251 – Sweep2

1.11. Spurious emissions conducted on 850 MHz (8-PSK operating mode)

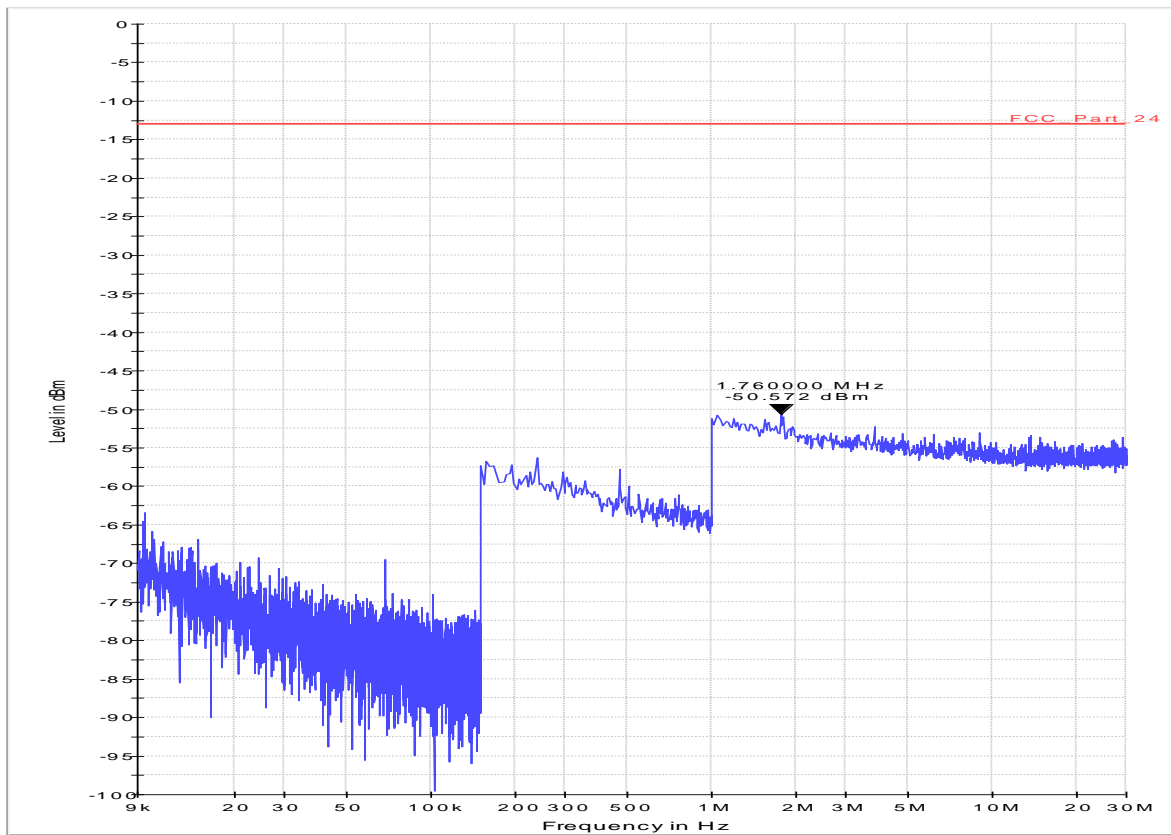


Diagram 36.07: Channel 128

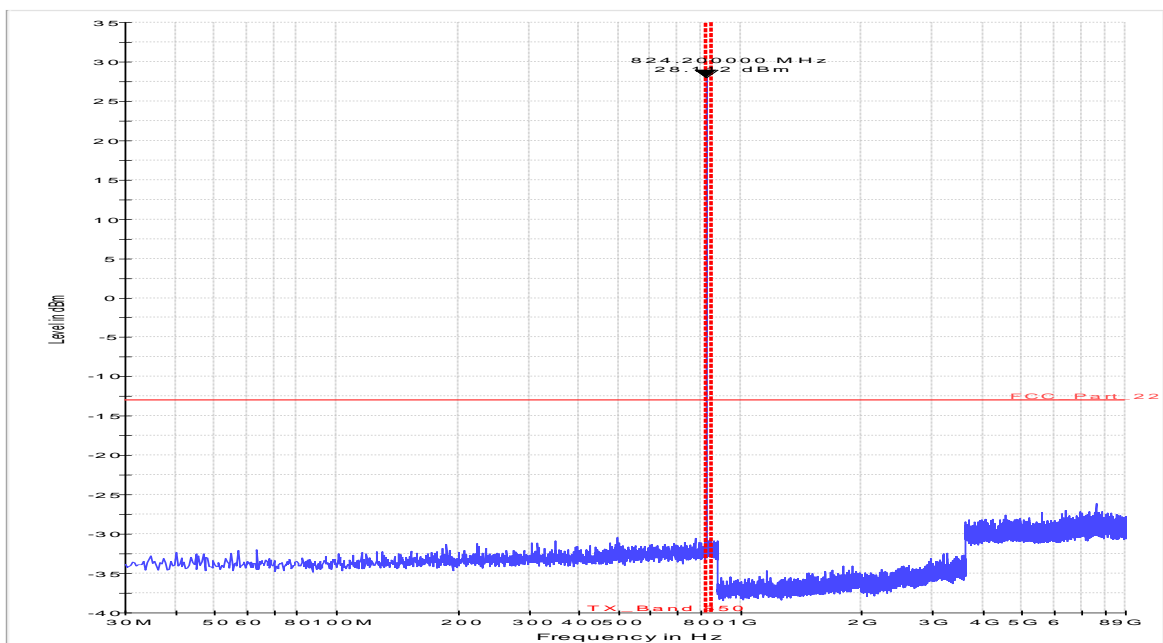


Diagram 36.08: Channel 128

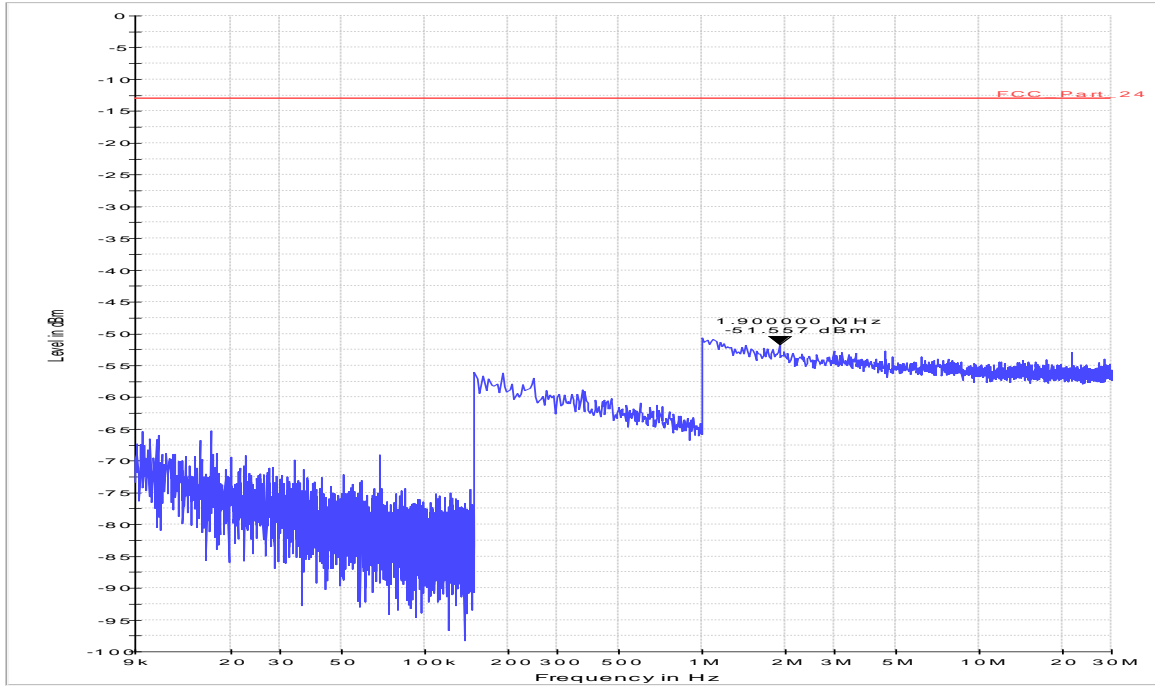


Diagram 36.09: Channel 192

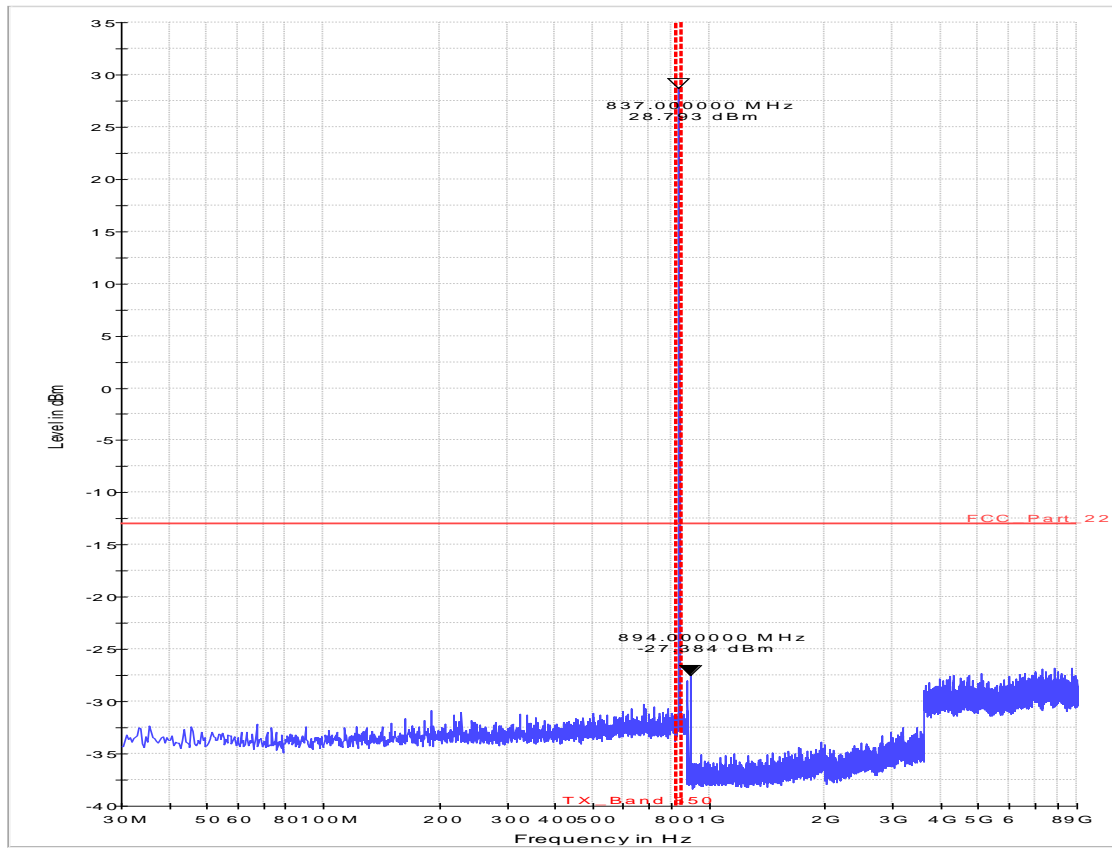


Diagram 36.10: Channel 192

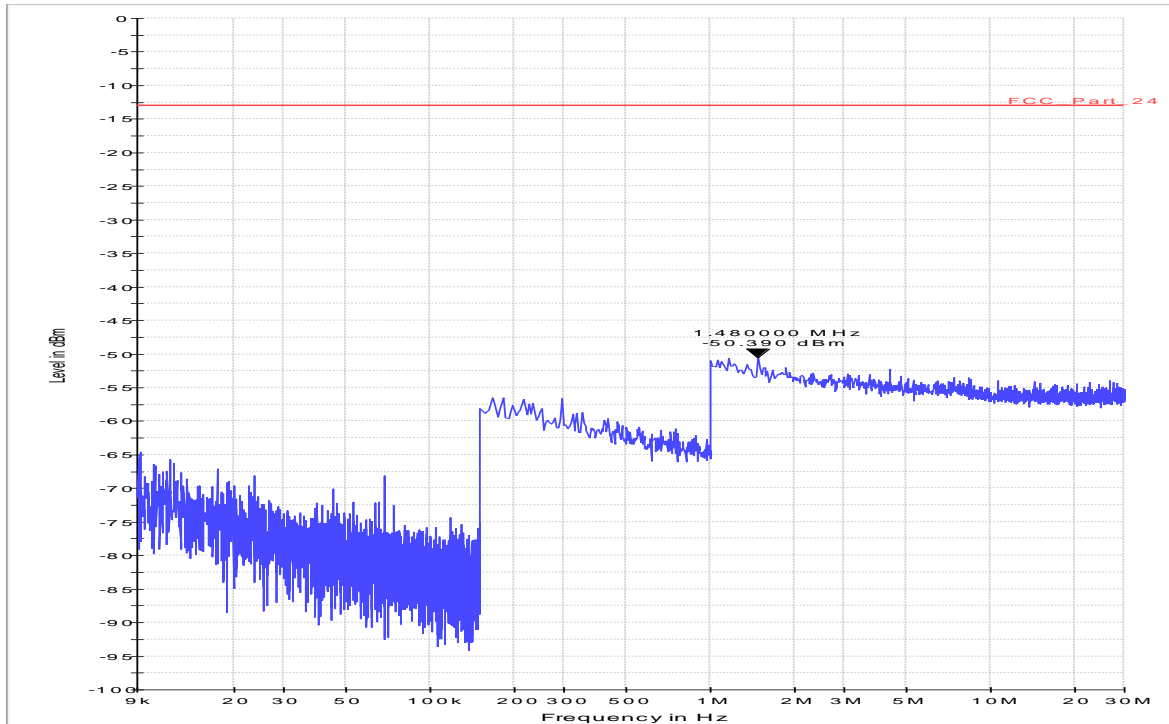


Diagram 36.11: Channel 251

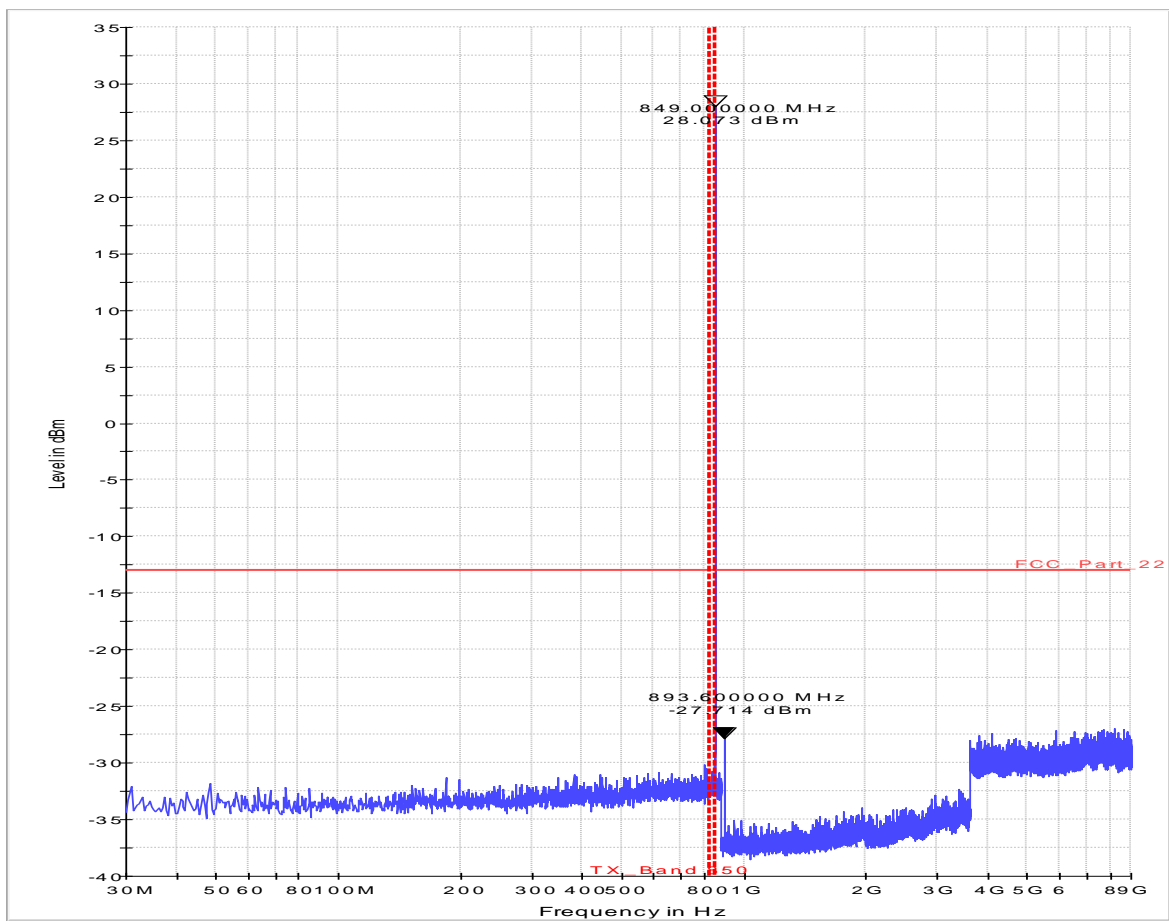


Diagram 36.12: Channel 251

1.12. Spurious emissions conducted on 1900 MHz (GPRS operating mode)

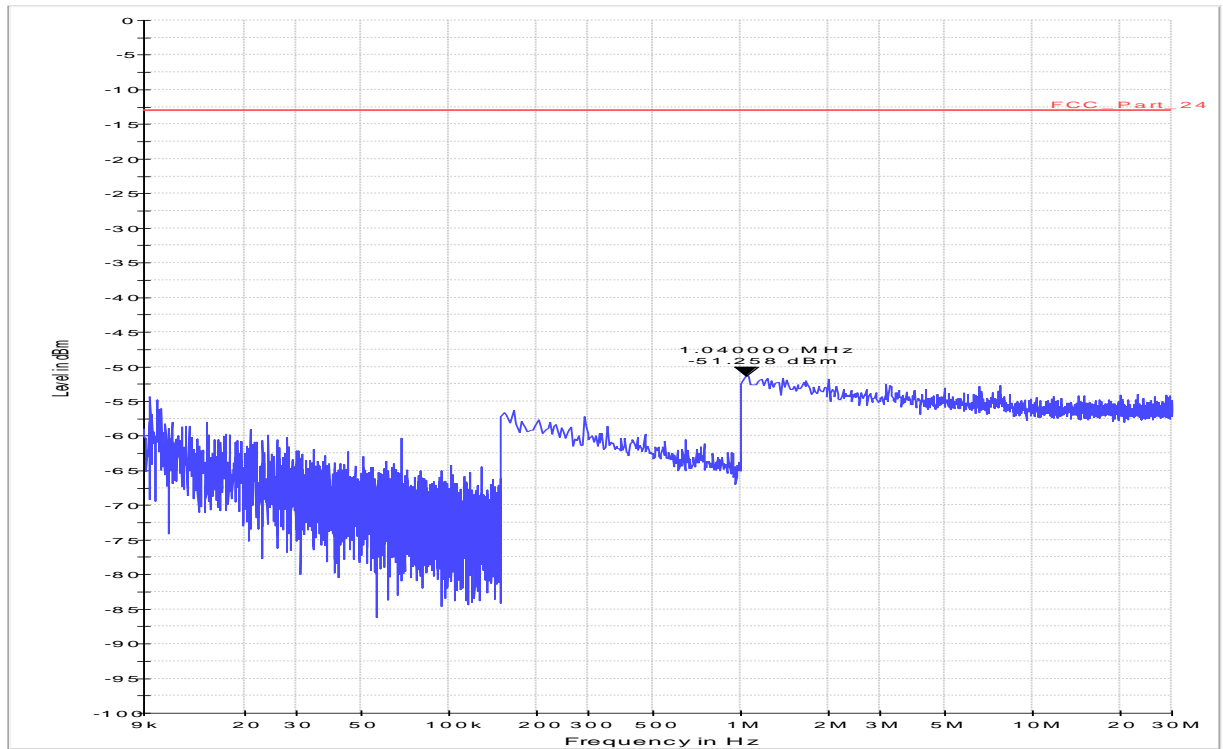


Diagram 36.20: Channel 512 – Sweep1

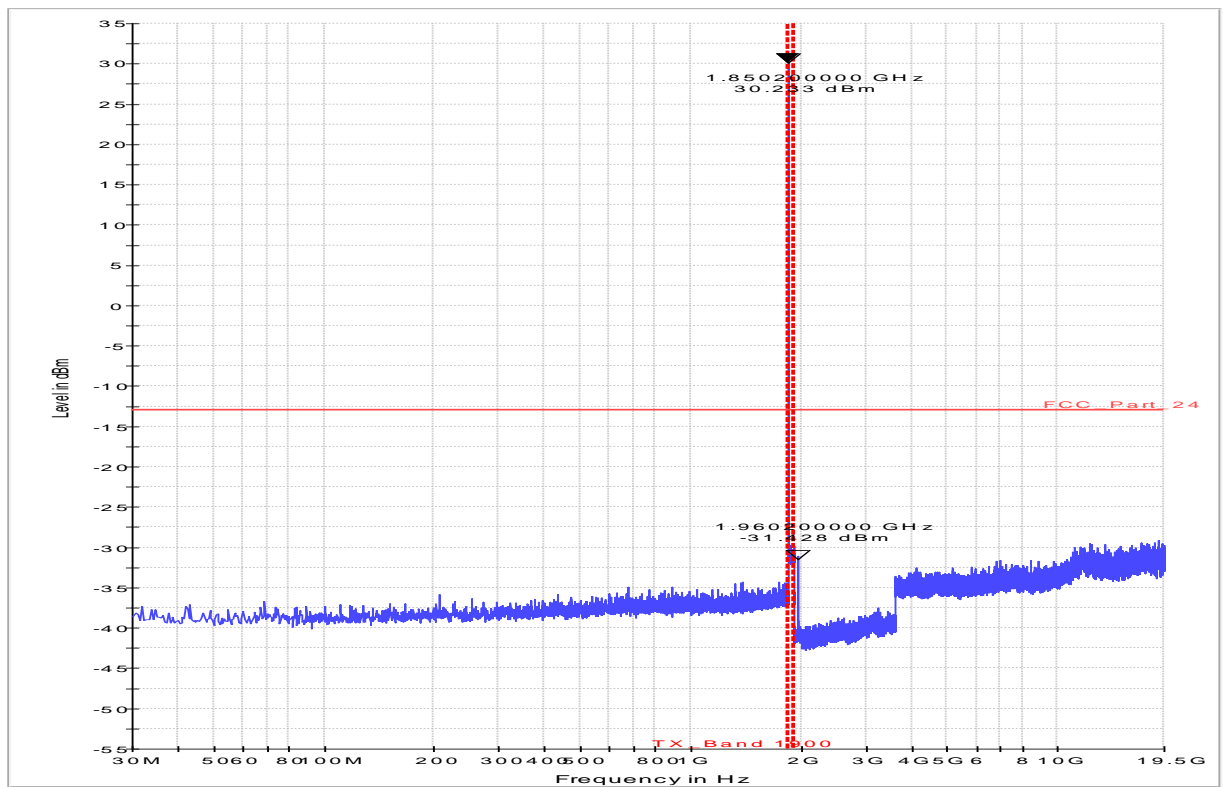


Diagram 36.21: Channel 512 – Sweep2

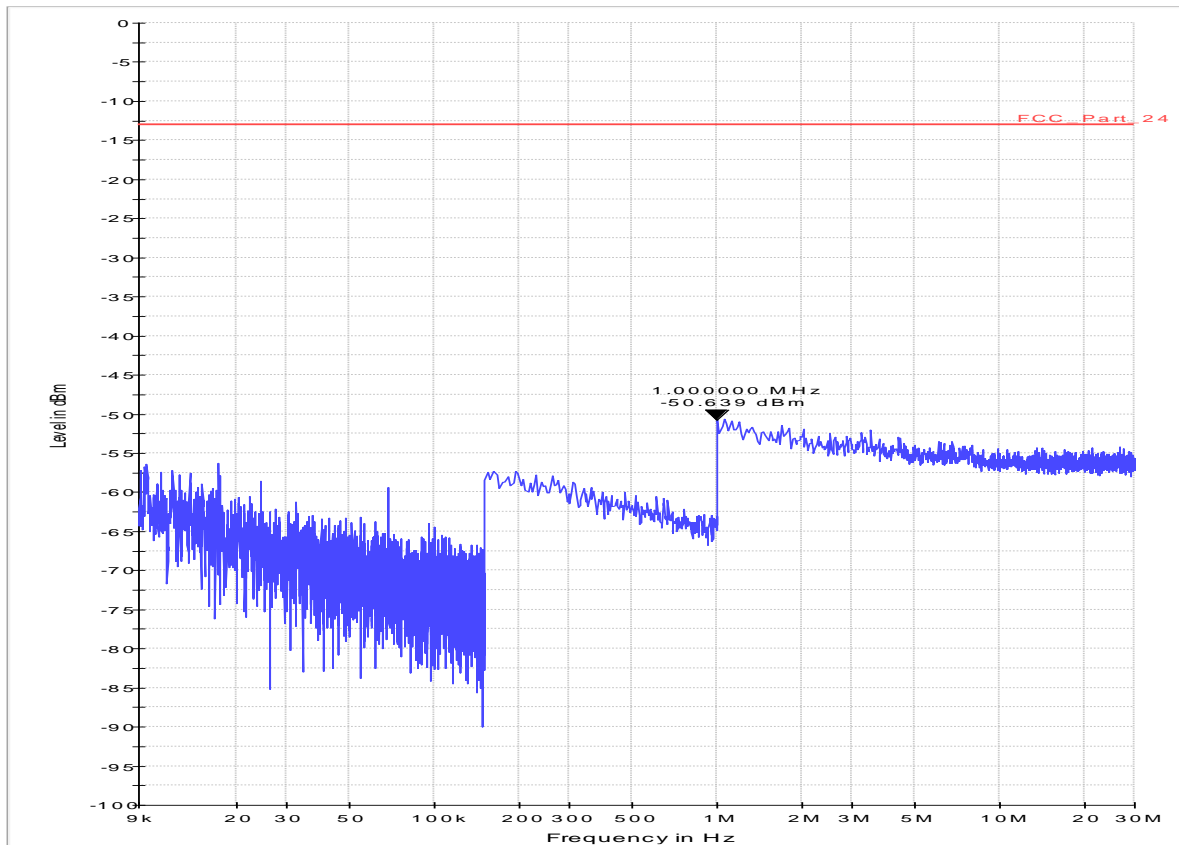


Diagram 36.22: Channel 661 – Sweep1

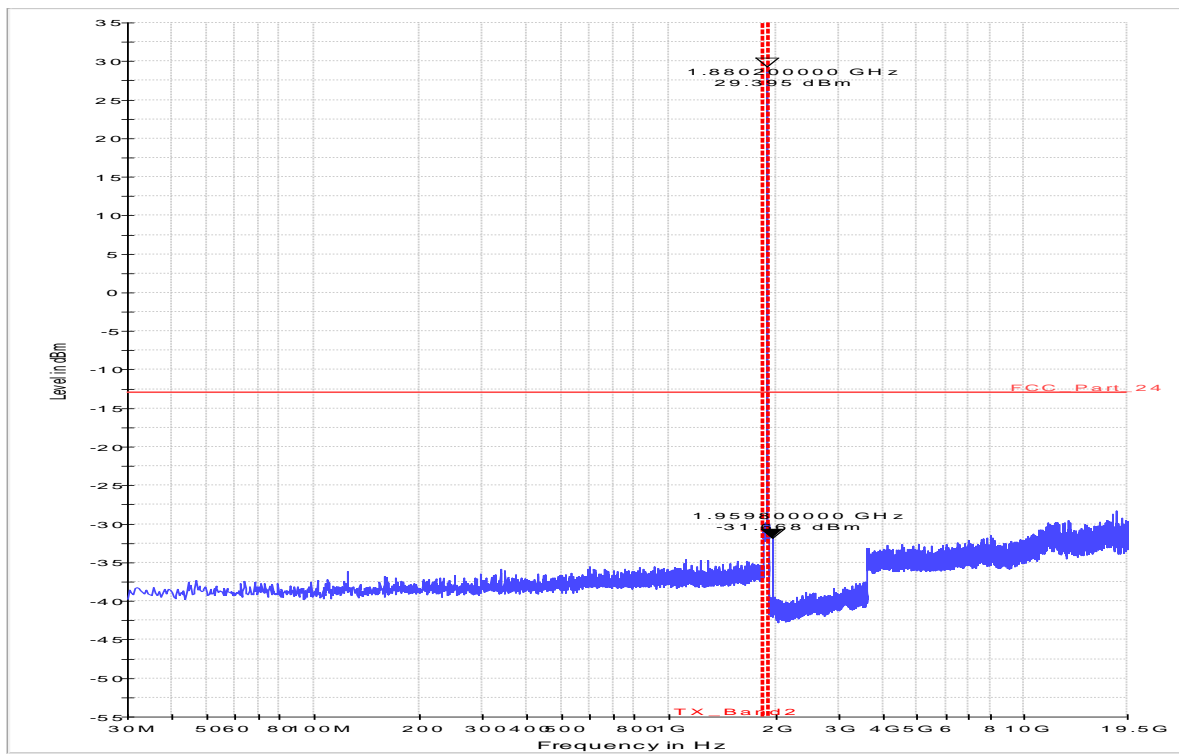


Diagram 36.23: Channel 661 – Sweep2

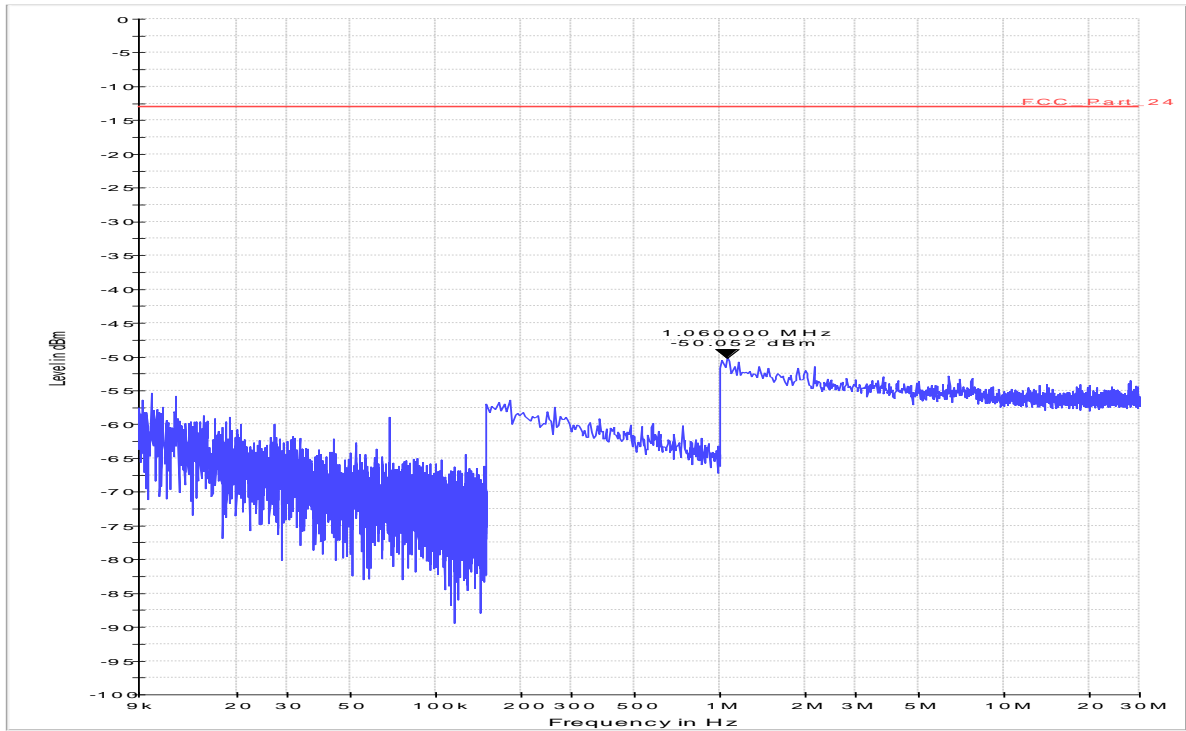


Diagram 36.24: Channel 810 – Sweep1

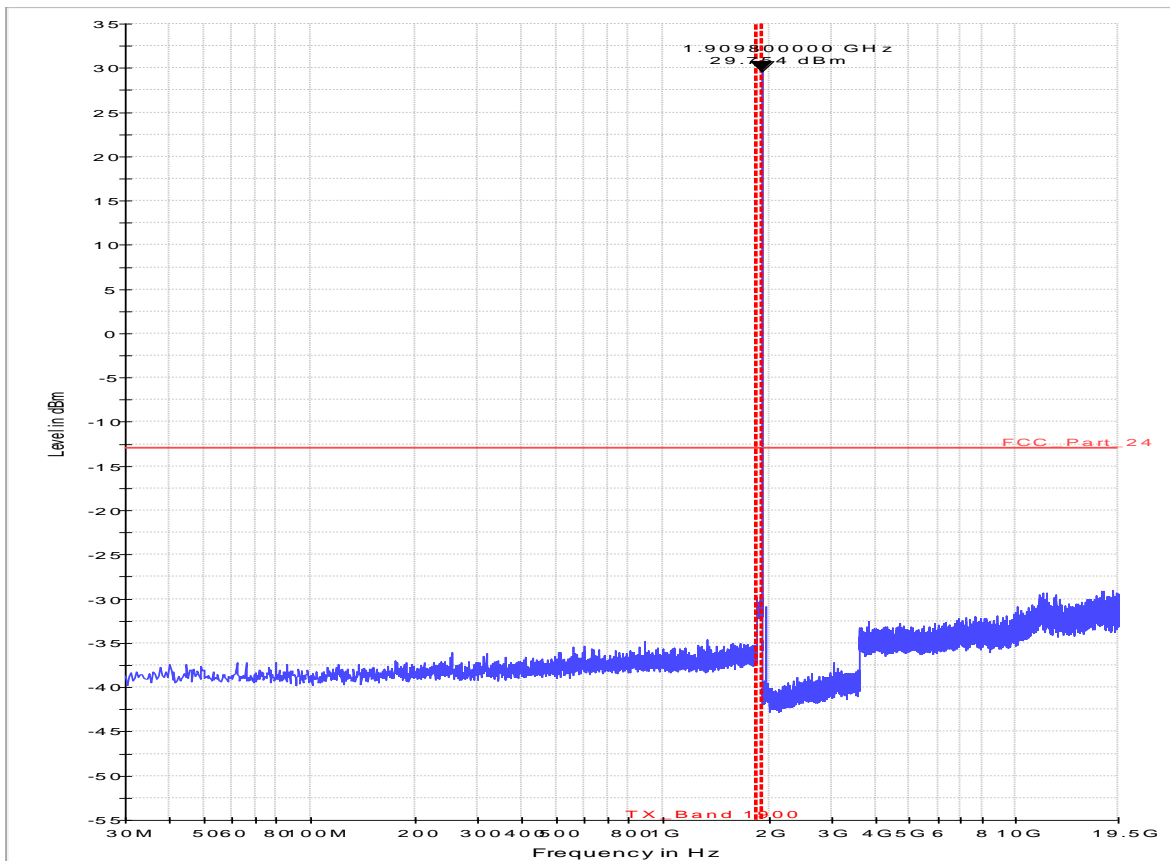


Diagram 36.25: Channel 810 – Sweep 2

1.13. Spurious emissions conducted on 1900 MHz (8-PSK operating mode)

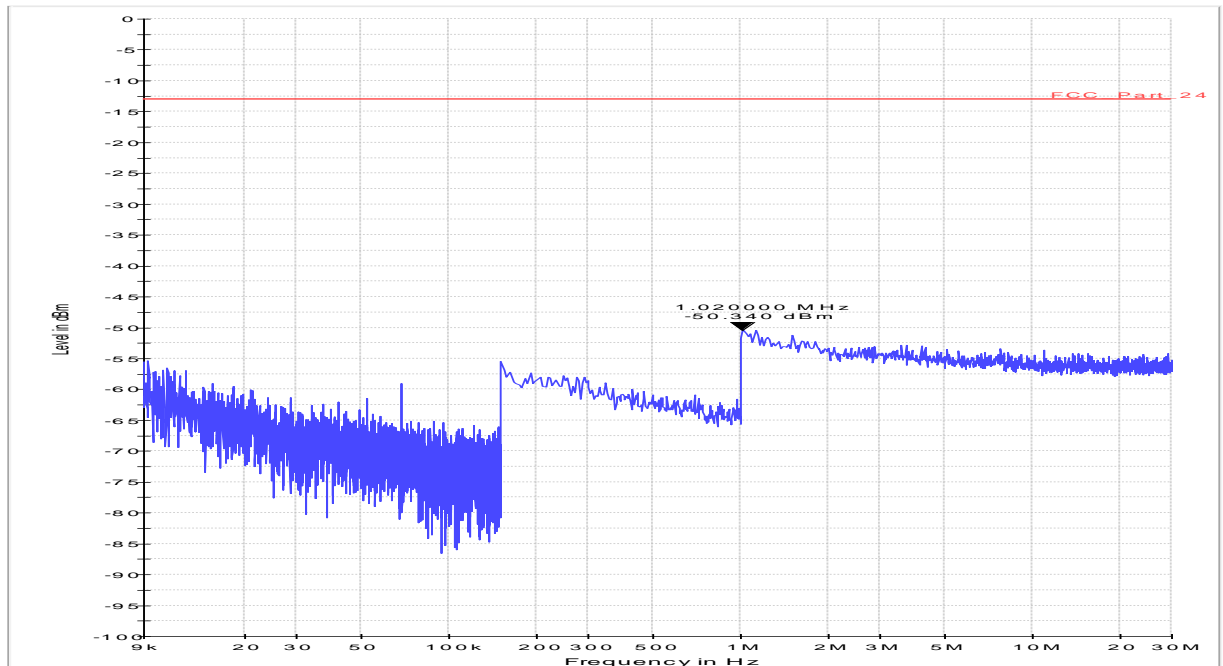


Diagram 36.26: Channel 512 – Sweep1

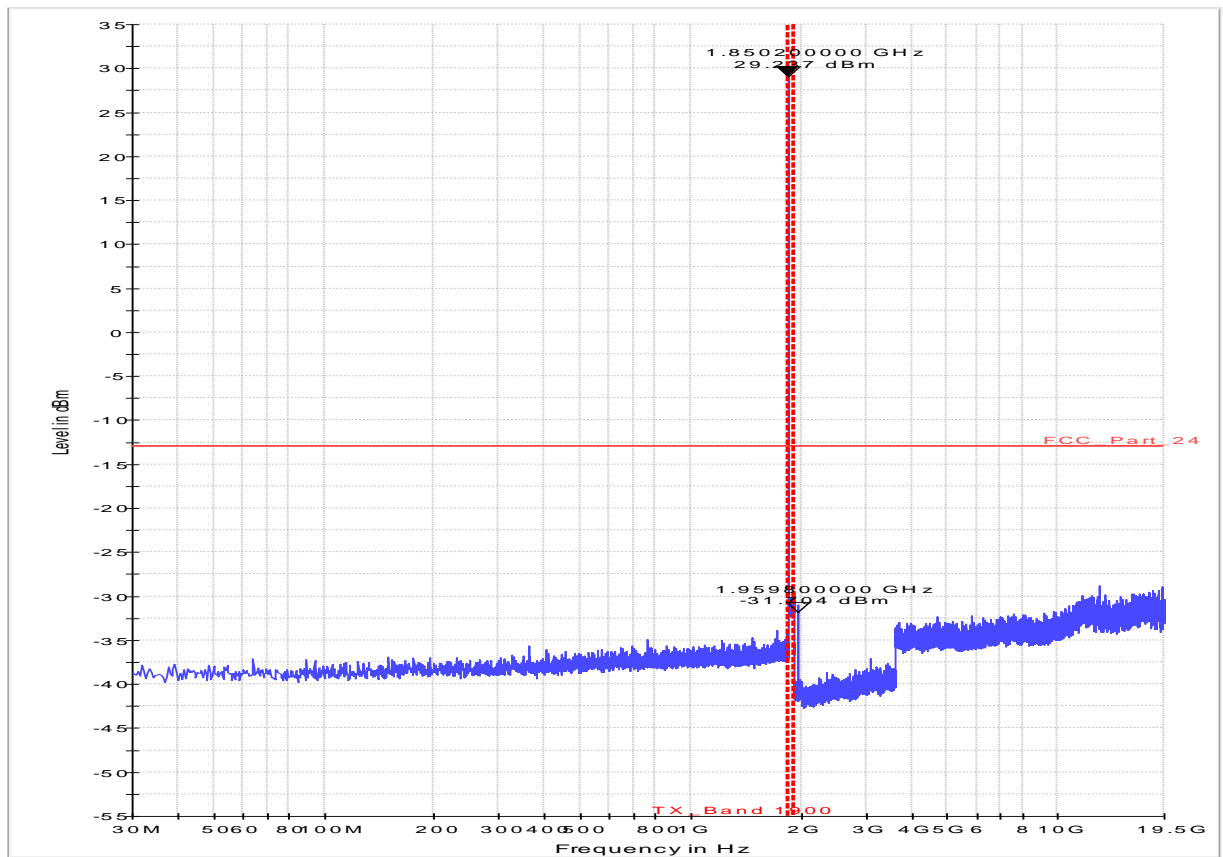


Diagram 36.27: Channel 512 – Sweep2

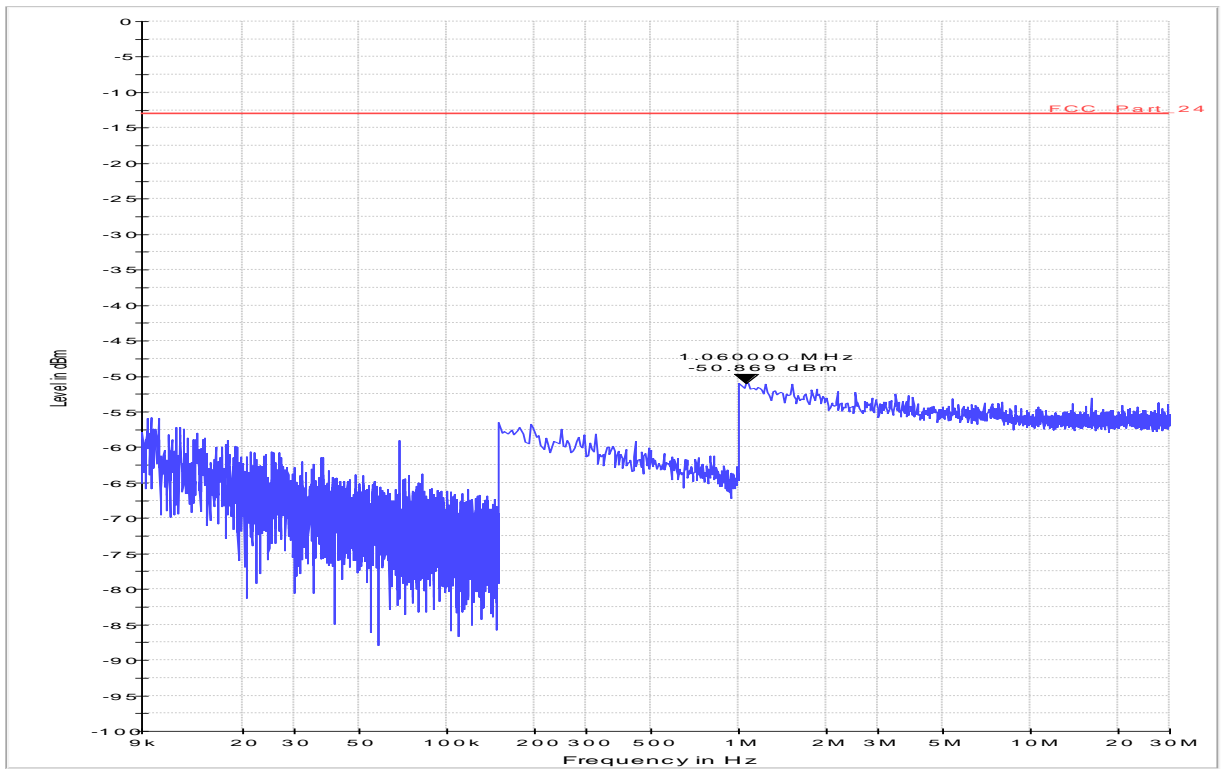


Diagram 36.28: Channel 661 – Sweep1

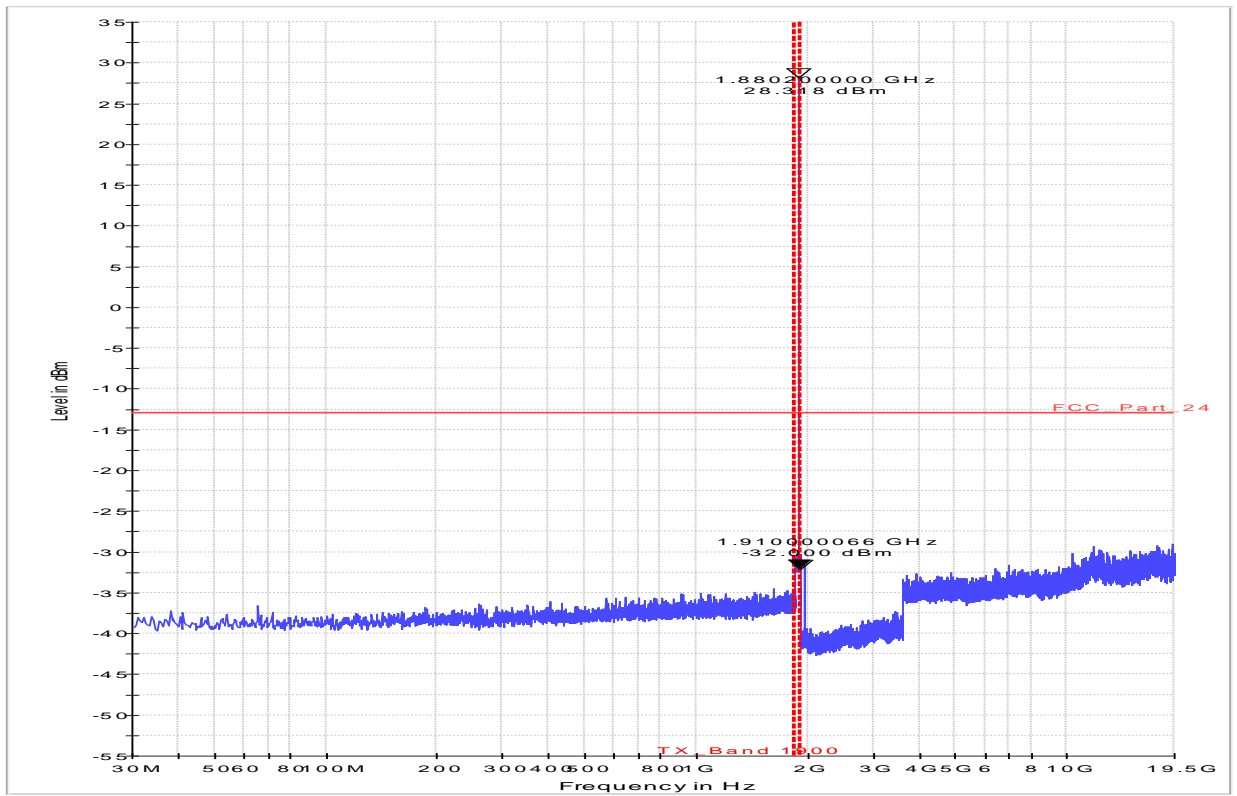


Diagram 36.29: Channel 661 – Sweep2

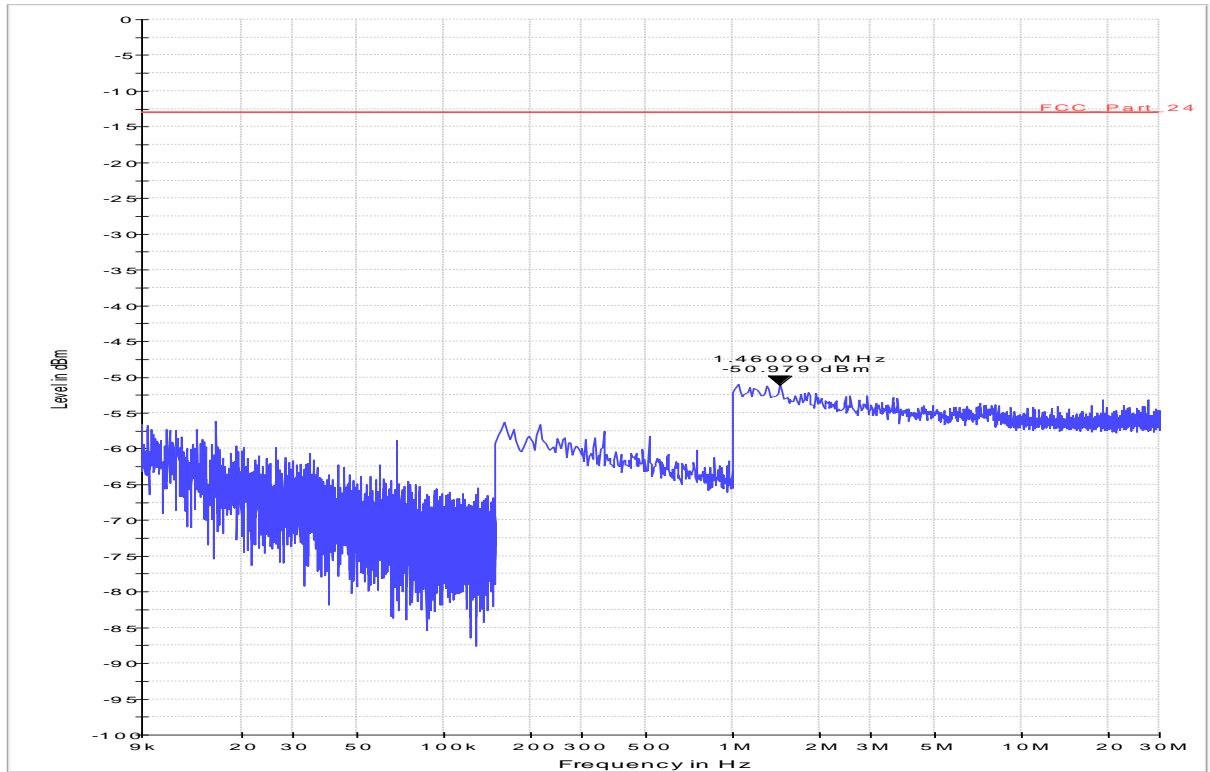


Diagram 36.30: Channel 810 – Sweep 1

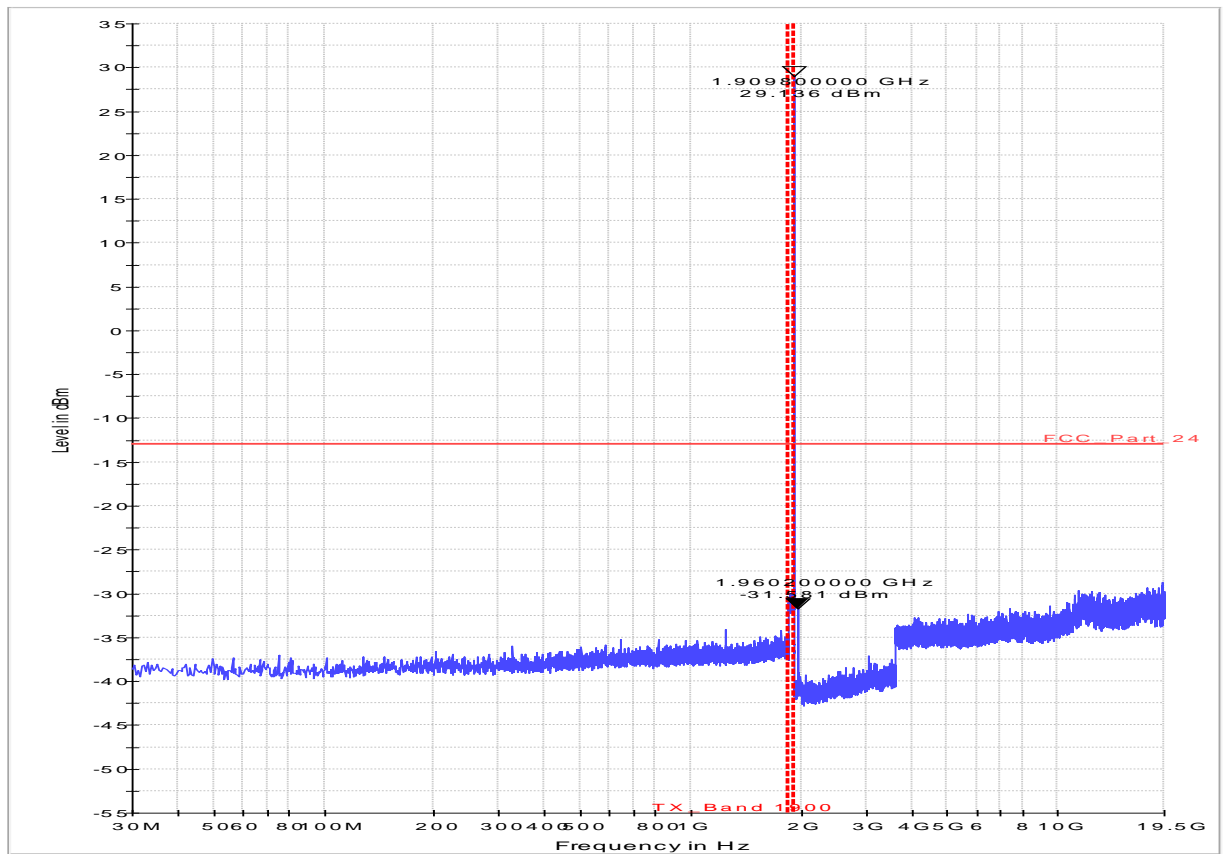


Diagram 36.31: Channel 810 – Sweep 2

1.14. Band-edge conducted emissions on 850 MHz (GPRS operating mode)

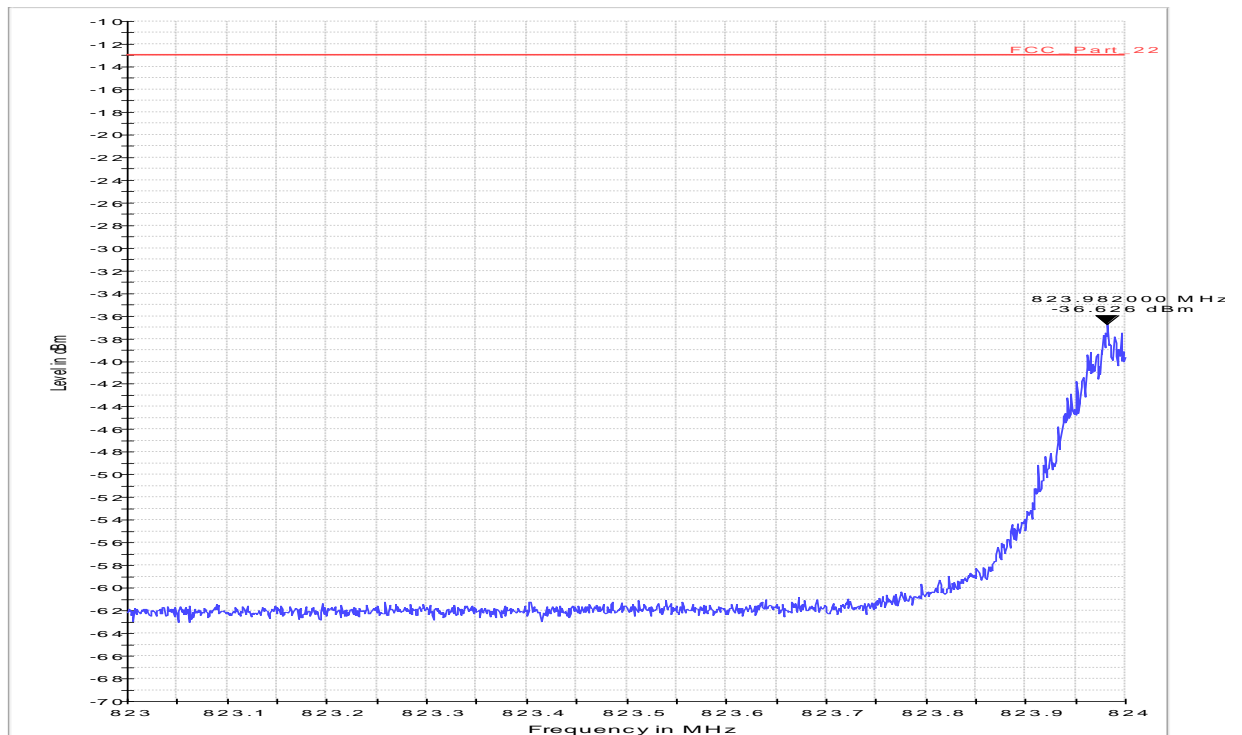


Diagram 37.01: Channel 128

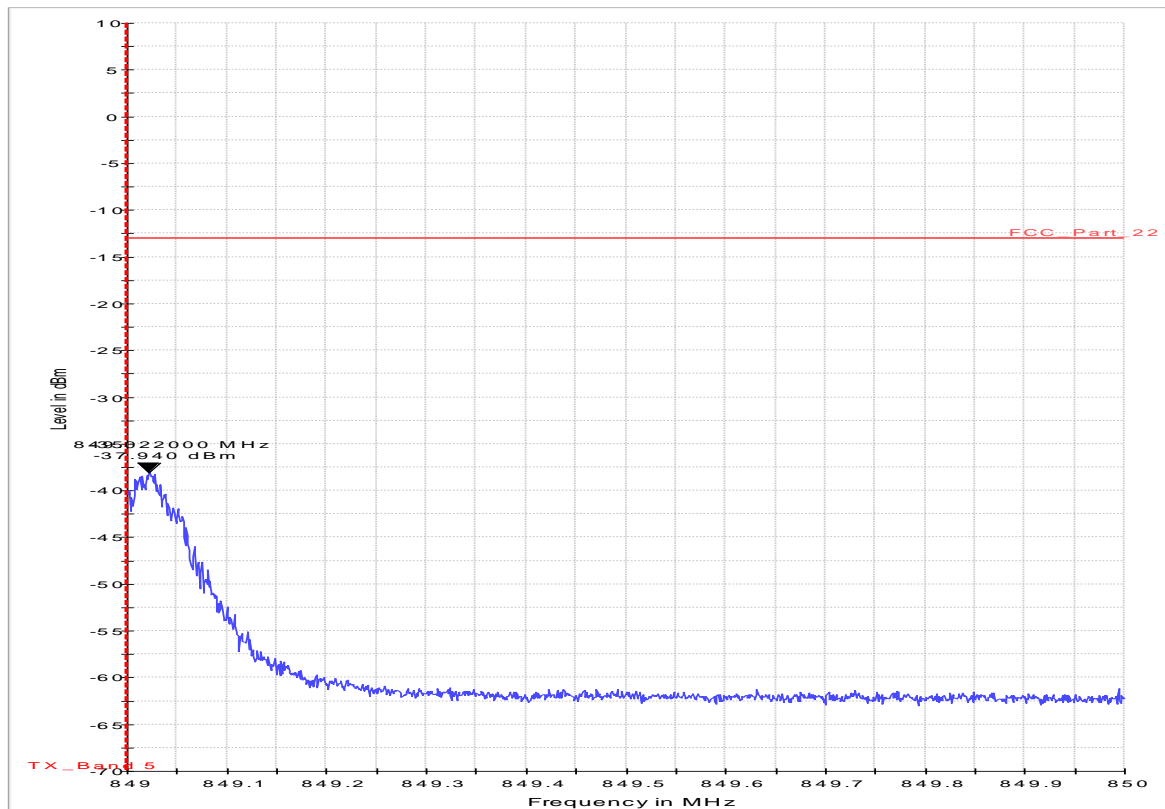


Diagram 37.02: Channel 251

1.15. Band-edge conducted emissions on 850 MHz (8-PSK operating mode)

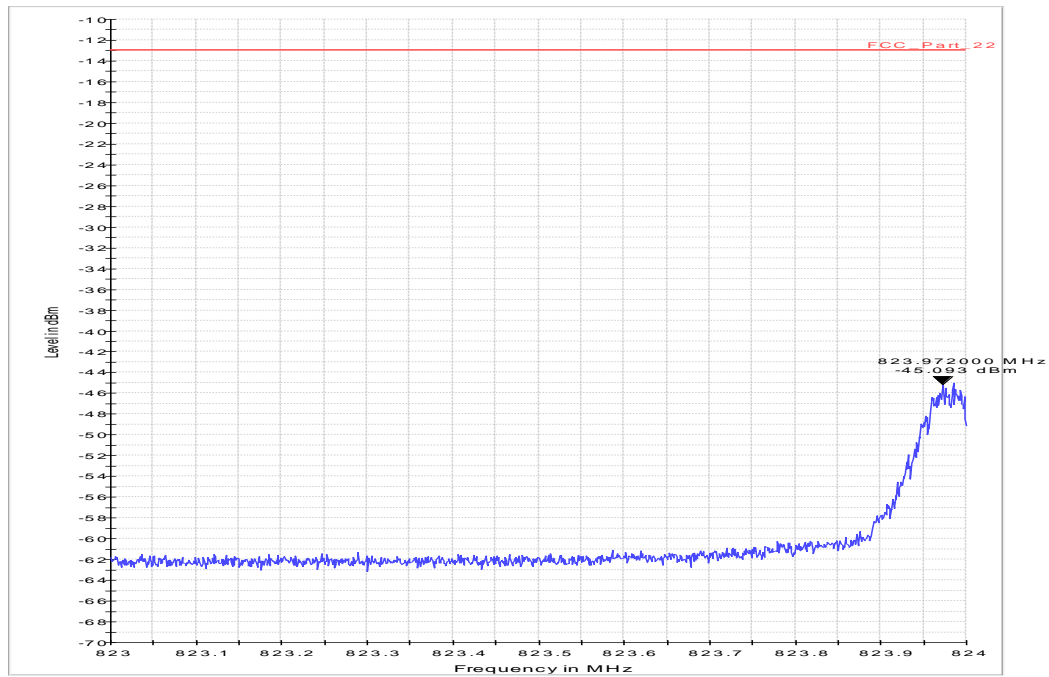


Diagram 37.03: Channel 128

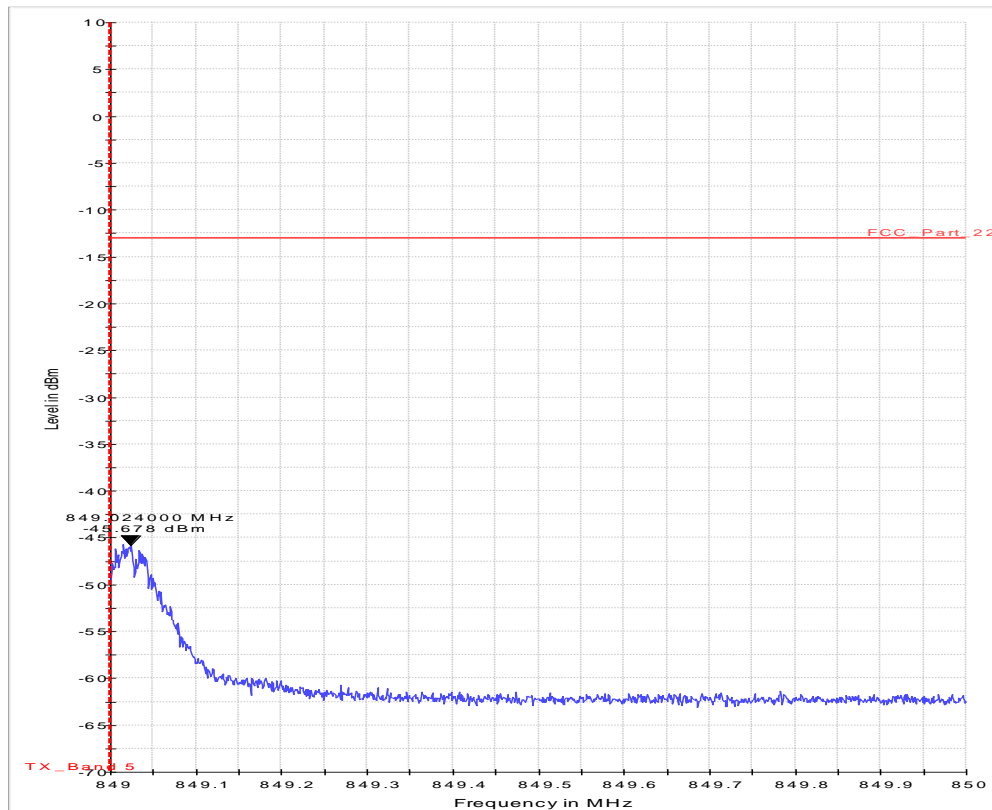


Diagram 37.04: Channel 251

1.16. Band-edge conducted emissions on 1900MHz (GPRS operating mode)

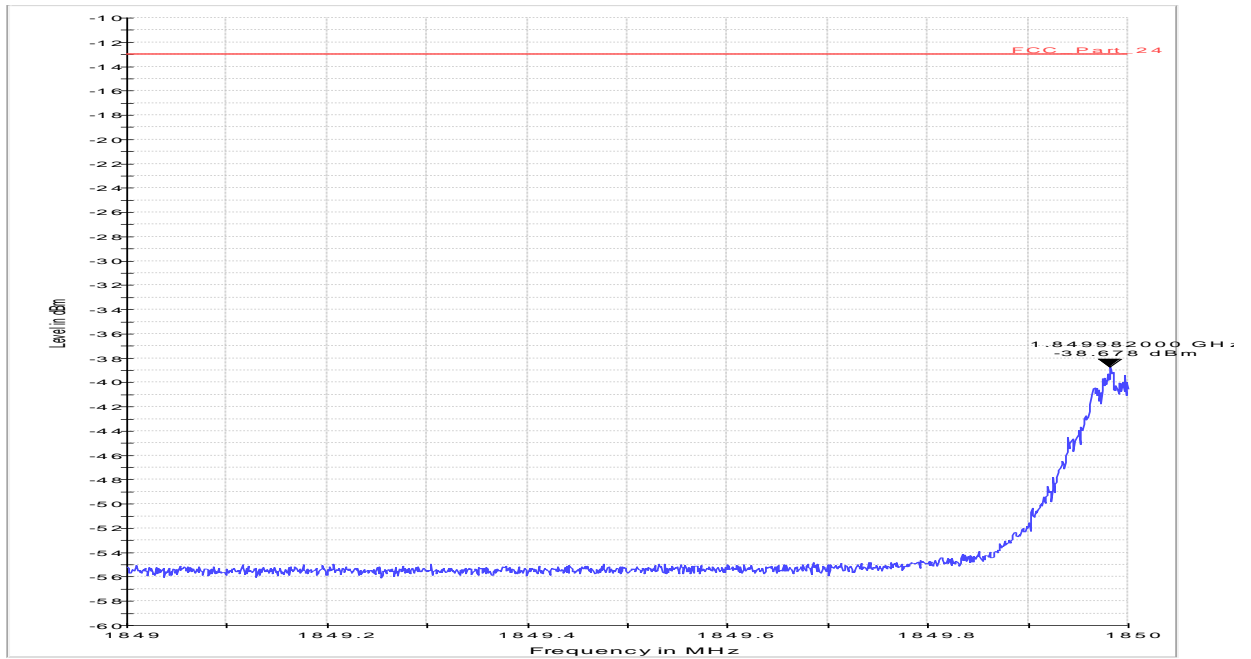


Diagram 37.10: Channel 512

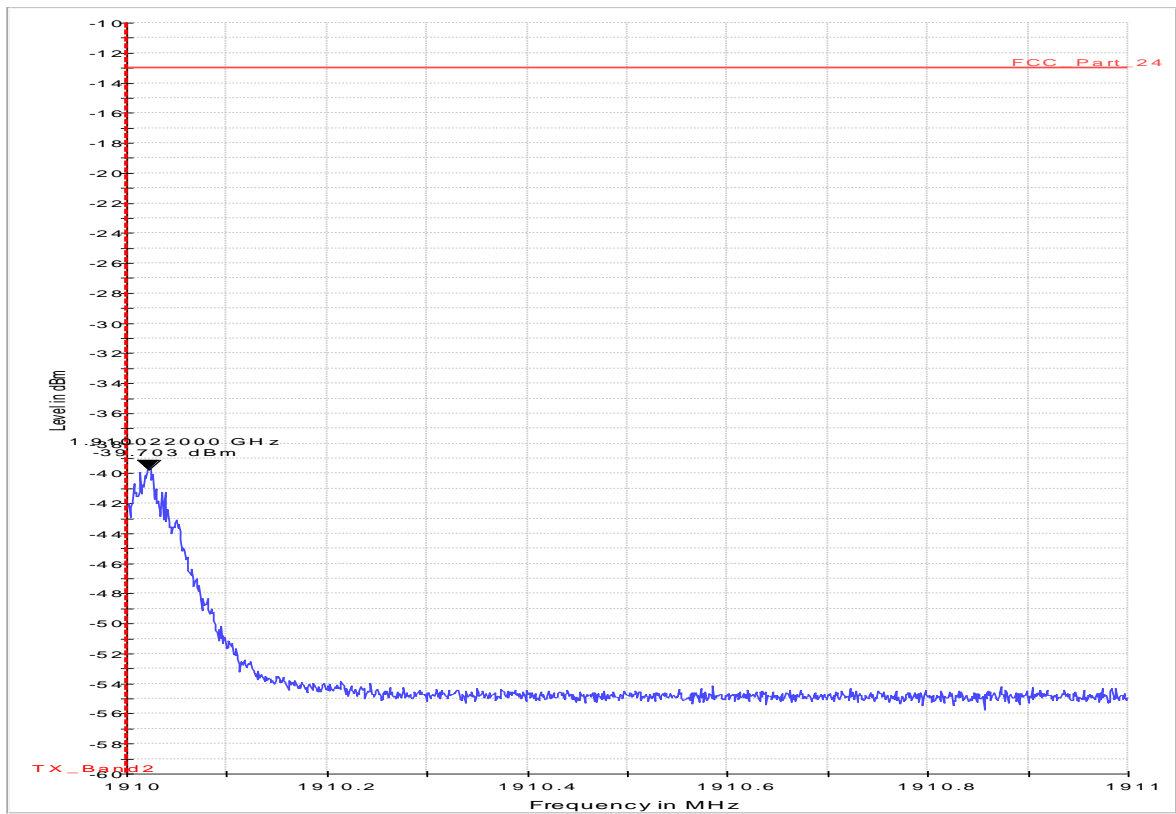


Diagram 37.11: Channel 810

1.17. Band-edge conducted emissions on 1900MHz (8-PSK operating mode)

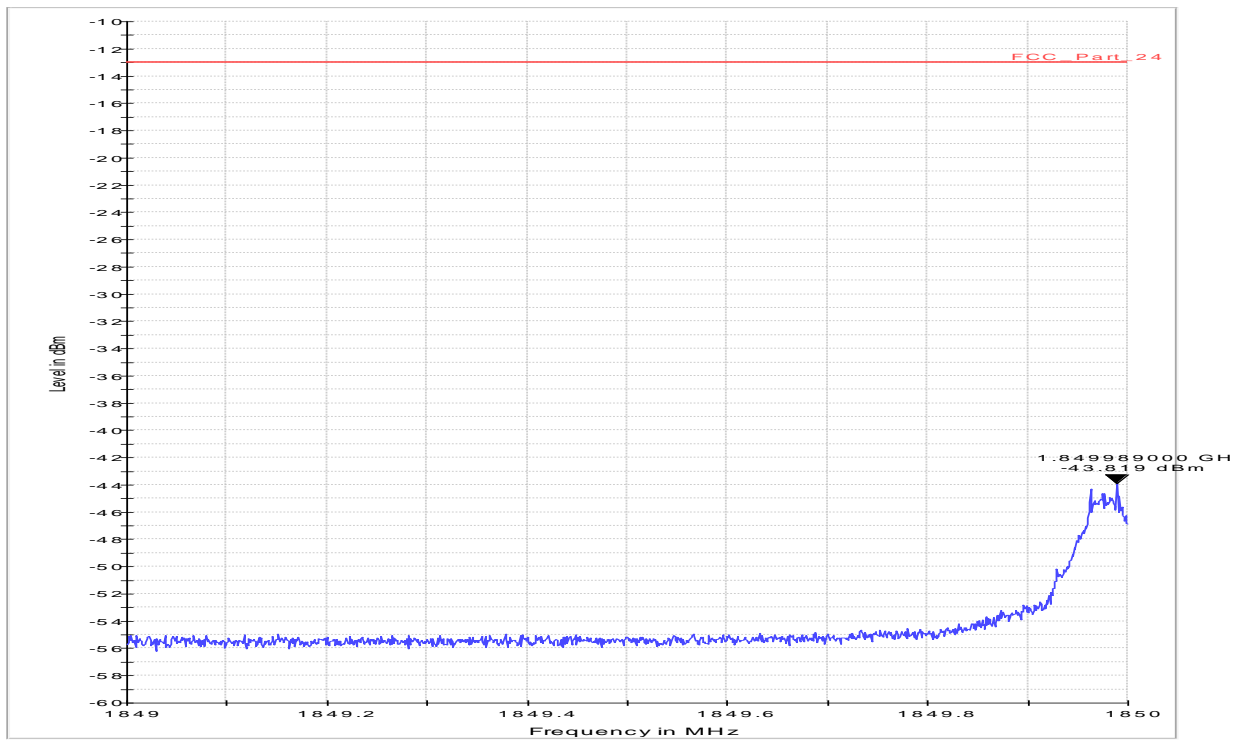


Diagram 37.12: Channel 512

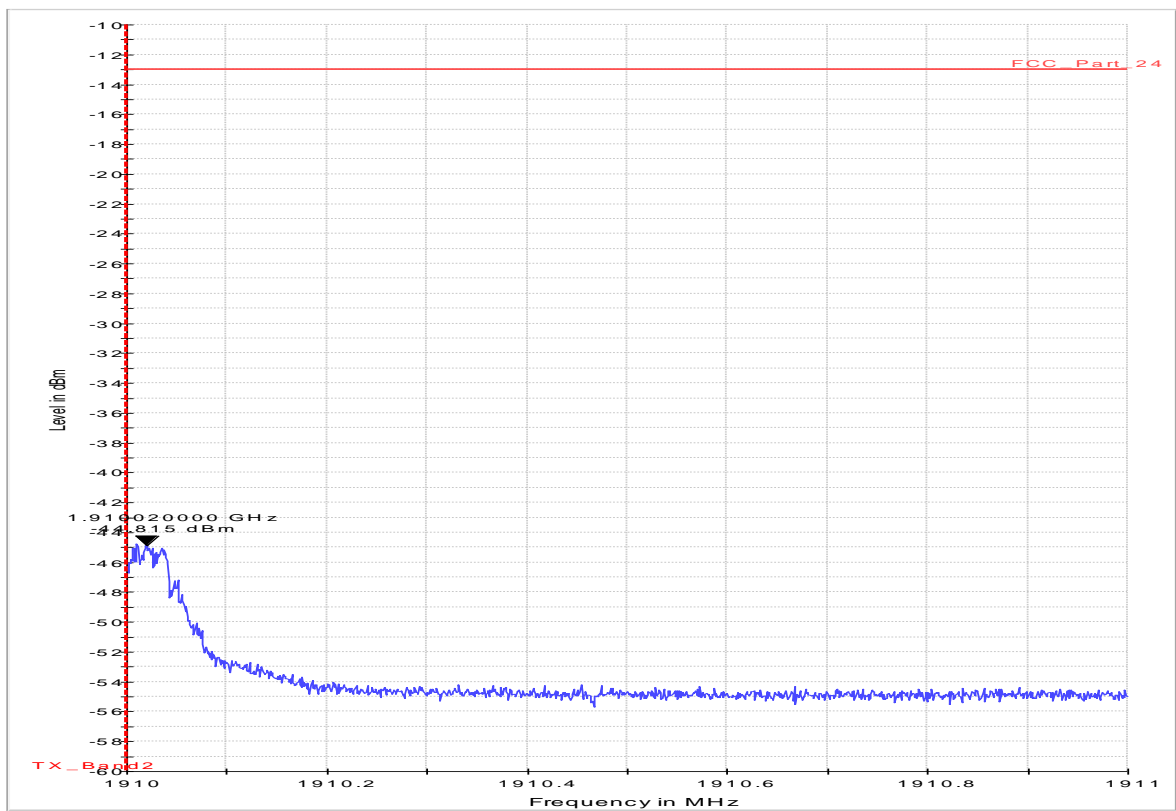


Diagram 37.13: Channel 810