

FCC Part 22/24 Compliance Test Report

Test Report no.:	Salo_FCC_0817_16.doc	Date of Report:	23-Mar-2008
Number of pages:	19	Customer's Contact person:	Sonja Länkinen
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-408 / Battery BL-5F, Headset HS-47 and AC- Charger AC-5		
FCC ID:	LJPRM-408	IC:	661E-RM408
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Parts 22 and 24, TIA-603-C-2004 and IC standards RSS-GEN (Issue 2, June 2007), RSS-132 (Issue 2, September 2005) and RSS-133 (Issue 4, February 2008). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test Results:	The EUT complies with the requirements in respect of all parameters subject to the test. The test results relate only to devices specified in this document.		
Date and signature for the contents:			

Sami Lehtonen, Test System Manager

1. Summary for FCC Part 22/24 Compliance Test Report

Date of receipt	24-Jan-2008
Testing completed	28-Feb-2008
The customer's contact person	Sonja Länkinen
Test Plan referred to	T:\Projects\RM-367\TestPlan_RS\RS_testplan_RM-367.xls
Notes	-
Document name	T:\Projects\RM-408\EMC\Results\FCC\Salo_FCC_0817_16.doc

1.1. EUT and Accessory Information

The EUT is a 6-band (GSM850/900/1800/1900 and WCDMA Band I/VIII) mobile phone with GPRS, EGPRS and Bluetooth. The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-367	004401/01/514279/3	0404	-	Vr02.15	12485
Battery	BL-5F	3635636523320500;0670498	-	-	-	12489
Headset	HS-47	069457965150104441	-	-	-	12439
AC- Charger	AC-5E	3943497311080605805;0675540	-	-	-	12548

1.2. Summary of Test Results

GSM 850:

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.6, 4.4	Conducted RF output power	NP
§22.913(a)	4.6, 4.4	Radiated RF output power	PASSED
§2.1049(h)	4.4.1	99 % occupied bandwidth	NP
§22.917(a)	4.7, 4.5	Band edge compliance	PASSED
§22.917(a), §2.1051	4.7, 4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.7, 4.5	Spurious radiated emissions	NP
§2.1055(a)	4.5, 4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.5, 4.3	Frequency stability, voltage variation	NP

GSM 1900:

Section in CFR 47	Section in RSS-133	Name of the test	Result
§2.1046(a)	6.2	Conducted RF output power	NP
§24.232(b)	6.2	Radiated RF output power	PASSED
§2.1049(h)	5.6	99 % occupied bandwidth	NP
§24.238(a)	6.3	Band edge compliance	PASSED
§24.238(a), §2.1051	6.3	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.3	Spurious radiated emissions	NP
§2.1055(a)	7	Frequency stability, temperature variation	NP
§2.1055(d)	7	Frequency stability, voltage variation	NP

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

The EUT does not comply with the essential requirements in the standard.

NP

The test was not performed by the TCC Nokia Salo Laboratory.

The test results of LJPRM-367 are re-used for certification of the LJPRM-408. The table above indicates the results, which will be re-used.

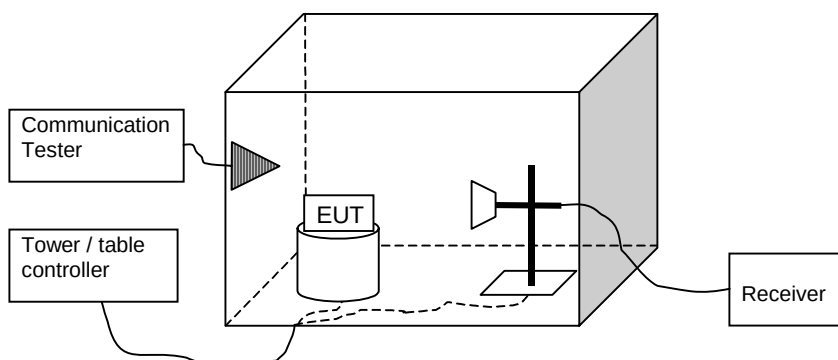
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2. Radiated RF output power (FCC §22.913(a), §24.232(b), RSS-GEN 4.6, RSS-132 4.4, RSS-133 6.2)

EUT with DUT number	RM-367, DUT 12485
Accessories with DUT numbers	BL-5F, DUT 12489; HS-47, DUT 12439; AC-5E, DUT 12548
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Phone was tested slide open mode and slide closed mode.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	18 / 42 / 97.5
Date of measurements	27 – 28-Feb-2008
Measured by	Sami Lehtonen

2.1. Test setup



2.2. Test method and limit

The measurement is made according to TIA-603-C-2004 as follows:

The measurement is performed in the Anechoic Chamber with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system. The turntable is rotated 360 degrees and this is repeated for both horizontal and vertical receive antenna polarizations.

The EUT is placed on a nonconductive plate at 170 cm height.

The substitution method is used. Substitution values at each frequencies are measured beforehand and saved to the test software.

The substitution corrections are obtained as described below:

$$A_{SUBST} = P_{SUBST_TX} - P_{SUBST_RX} - L_{SUBST_CABLES} + G_{SUBST_TX_ANT}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain. P_{SUBST_TX} is signal generator level, P_{SUBST_RX} is receiver level, L_{SUBST_CABLES} is cable losses including both TX and RX cables and $G_{SUBST_TX_ANT}$ is substitution antenna gain.

The measurement results are obtained as described below:

$$P [dBm] = P_{MEAS} + A_{TOT}$$

Where P_{MEAS} is receiver reading in dBm and A_{TOT} is total correction factor including cable loss and substitution correction ($A_{TOT} = L_{CABLES} + A_{SUBST}$).

Limits for radiated RF output power measurements

Frequency range [MHz]	Limit [W]	Limit [dBm]
824 - 849	7	38.5
1850 - 1910	2	33

2.3. GSM 850 Test results

Slide open:

GSM mode

Channel / f_c [MHz]	ERP [dBm]	ERP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
128 / 824.2	25.00	0.316	- 12.10	37.10	HORIZONTAL	PASSED
190 / 836.6	28.90	0.776	- 7.50	36.40	HORIZONTAL	PASSED
251 / 848.8	29.40	0.871	- 6.00	35.40	HORIZONTAL	PASSED

GPRS mode, 2 TX Slots

Channel / f_c [MHz]	ERP [dBm]	ERP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
128 / 824.2	23.30	0.214	- 13.80	37.10	HORIZONTAL	PASSED
190 / 836.6	27.10	0.513	- 9.30	36.40	HORIZONTAL	PASSED
251 / 848.8	25.80	0.380	- 9.60	35.40	HORIZONTAL	PASSED

GPRS mode, 3 TX Slots

Channel / f_c [MHz]	ERP [dBm]	ERP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
128 / 824.2	22.20	0.166	- 14.90	37.10	HORIZONTAL	PASSED
190 / 836.6	25.80	0.380	- 10.60	36.40	HORIZONTAL	PASSED
251 / 848.8	24.30	0.269	- 11.10	35.40	HORIZONTAL	PASSED

EGPRS mode, 1 TX Slot

Channel / f_c [MHz]	ERP [dBm]	ERP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
128 / 824.2	13.40	0.022	- 22.30	35.70	VERTICAL	PASSED
190 / 836.6	17.90	0.062	- 18.20	36.10	VERTICAL	PASSED
251 / 848.8	17.60	0.058	- 17.30	34.90	VERTICAL	PASSED

EGPRS mode, 2 TX Slots

Channel / f_c [MHz]	ERP [dBm]	ERP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
128 / 824.2	15.70	0.037	- 21.40	37.10	HORIZONTAL	PASSED
190 / 836.6	19.00	0.079	- 17.40	36.40	HORIZONTAL	PASSED
251 / 848.8	16.40	0.044	- 19.00	35.40	HORIZONTAL	PASSED

EGPRS mode, 3 TX Slots

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	15.10	0.032	- 22.00	37.10	HORIZONTAL	PASSED
190 / 836.6	19.30	0.085	- 17.10	36.40	HORIZONTAL	PASSED
251 / 848.8	18.30	0.068	- 17.10	35.40	HORIZONTAL	PASSED

Slide closed:

GSM mode

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	24.30	0.269	- 12.80	37.10	HORIZONTAL	PASSED
190 / 836.6	25.80	0.380	- 10.60	36.40	HORIZONTAL	PASSED
251 / 848.8	26.20	0.417	- 9.20	35.40	HORIZONTAL	PASSED

GPRS mode, 2 TX Slots

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	23.00	0.200	- 14.10	37.10	HORIZONTAL	PASSED
190 / 836.6	25.20	0.331	- 11.20	36.40	HORIZONTAL	PASSED
251 / 848.8	25.30	0.339	- 10.10	35.40	HORIZONTAL	PASSED

GPRS mode, 3 TX Slots

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	20.90	0.123	- 16.20	37.10	HORIZONTAL	PASSED
190 / 836.6	23.30	0.214	- 13.10	36.40	HORIZONTAL	PASSED
251 / 848.8	23.80	0.240	- 11.60	35.40	HORIZONTAL	PASSED

EGPRS mode, 1 TX Slot

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	9.60	0.009	- 26.10	35.70	VERTICAL	PASSED
190 / 836.6	14.30	0.027	- 21.80	36.10	VERTICAL	PASSED
251 / 848.8	14.20	0.026	- 20.70	34.90	VERTICAL	PASSED

EGPRS mode, 2 TX Slots

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	14.90	0.031	- 22.20	37.10	HORIZONTAL	PASSED
190 / 836.6	17.20	0.052	- 19.20	36.40	HORIZONTAL	PASSED
251 / 848.8	17.40	0.055	- 18.00	35.40	HORIZONTAL	PASSED

EGPRS mode, 3 TX Slots

Channel / f _c [MHz]	ERP [dBm]	ERP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
128 / 824.2	14.90	0.031	- 22.20	37.10	HORIZONTAL	PASSED
190 / 836.6	17.10	0.051	- 19.30	36.40	HORIZONTAL	PASSED
251 / 848.8	18.40	0.069	- 17.00	35.40	HORIZONTAL	PASSED

2.4. GSM 1900 Test results

Slide open:

GSM mode

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	30.80	1.202	- 15.70	46.50	HORIZONTAL	PASSED
661 / 1880.0	27.10	0.513	- 20.10	47.20	HORIZONTAL	PASSED
810 / 1909.8	22.00	0.158	- 22.20	44.20	HORIZONTAL	PASSED

GPRS mode, 2 TX Slots

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	23.00	0.200	- 23.50	46.50	HORIZONTAL	PASSED
661 / 1880.0	15.10	0.032	- 32.10	47.20	HORIZONTAL	PASSED
810 / 1909.8	20.10	0.102	- 24.10	44.20	HORIZONTAL	PASSED

GPRS mode, 3 TX Slots

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	20.90	0.123	- 25.60	46.50	HORIZONTAL	PASSED
661 / 1880.0	12.80	0.019	- 34.40	47.20	HORIZONTAL	PASSED
810 / 1909.8	18.00	0.063	- 26.20	44.20	HORIZONTAL	PASSED

EGPRS mode, 1 TX Slot

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	21.40	0.138	- 25.10	46.50	HORIZONTAL	PASSED
661 / 1880.0	10.20	0.010	- 37.00	47.20	HORIZONTAL	PASSED
810 / 1909.8	15.60	0.036	- 28.60	44.20	HORIZONTAL	PASSED

EGPRS mode, 2 TX Slots

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	21.80	0.151	- 24.70	46.50	HORIZONTAL	PASSED
661 / 1880.0	10.00	0.010	- 37.20	47.20	HORIZONTAL	PASSED
810 / 1909.8	15.60	0.036	- 28.60	44.20	HORIZONTAL	PASSED

EGPRS mode, 3 TX Slots

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	20.40	0.110	- 26.10	46.50	HORIZONTAL	PASSED
661 / 1880.0	9.00	0.008	- 38.20	47.20	HORIZONTAL	PASSED
810 / 1909.8	14.40	0.028	- 29.80	44.20	HORIZONTAL	PASSED

Slide Closed:

GSM mode

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	29.40	0.871	- 17.10	46.50	HORIZONTAL	PASSED
661 / 1880.0	30.60	1.148	- 16.60	47.20	HORIZONTAL	PASSED
810 / 1909.8	27.60	0.575	- 16.60	44.20	HORIZONTAL	PASSED

GPRS mode, 2 TX Slots

Channel / f _c [MHz]	EIRP [dBm]	EIRP [W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Result
512 / 1850.2	29.20	0.832	- 17.30	46.50	HORIZONTAL	PASSED
661 / 1880.0	30.40	1.096	- 16.80	47.20	HORIZONTAL	PASSED
810 / 1909.8	27.30	0.537	- 16.90	44.20	HORIZONTAL	PASSED

GPRS mode, 3 TX Slots

Channel / f_c [MHz]	EIRP [dBm]	EIRP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
512 / 1850.2	27.20	0.525	- 19.30	46.50	HORIZONTAL	PASSED
661 / 1880.0	28.20	0.661	- 19.00	47.20	HORIZONTAL	PASSED
810 / 1909.8	25.20	0.331	- 19.00	44.20	HORIZONTAL	PASSED

EGPRS mode, 1 TX Slot

Channel / f_c [MHz]	EIRP [dBm]	EIRP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
512 / 1850.2	24.40	0.275	- 22.10	46.50	HORIZONTAL	PASSED
661 / 1880.0	25.80	0.380	- 21.40	47.20	HORIZONTAL	PASSED
810 / 1909.8	22.90	0.195	- 21.30	44.20	HORIZONTAL	PASSED

EGPRS mode, 2 TX Slots

Channel / f_c [MHz]	EIRP [dBm]	EIRP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
512 / 1850.2	24.60	0.288	- 21.90	46.50	HORIZONTAL	PASSED
661 / 1880.0	26.50	0.447	- 20.70	47.20	HORIZONTAL	PASSED
810 / 1909.8	23.10	0.204	- 21.10	44.20	HORIZONTAL	PASSED

EGPRS mode, 3 TX Slots

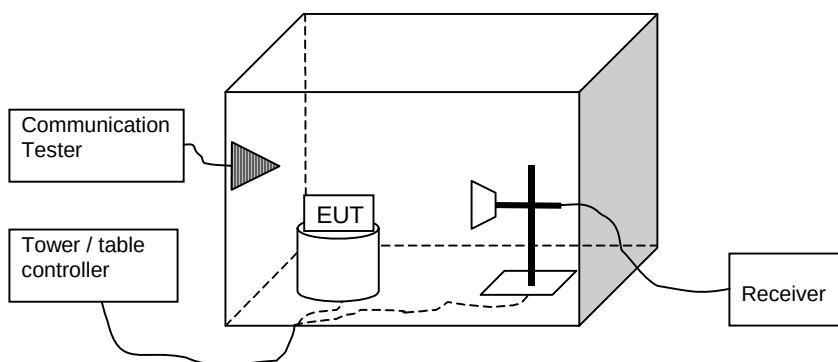
Channel / f_c [MHz]	EIRP [dBm]	EIRP [W]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarisation	Result
512 / 1850.2	23.80	0.240	- 22.70	46.50	HORIZONTAL	PASSED
661 / 1880.0	24.80	0.302	- 22.40	47.20	HORIZONTAL	PASSED
810 / 1909.8	21.80	0.151	- 22.40	44.20	HORIZONTAL	PASSED

3. Band edge compliance

(FCC §22.917(a), 24.238(a), RSS-GEN 4.7, RSS-132 4.5, RSS-133 6.3)

EUT with DUT number	RM-367, DUT 12485
Accessories with DUT numbers	BL-5F, DUT 12489; HS-47, DUT 12439; AC-5E, DUT 12548
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Phone was tested slide open mode and slide closed mode.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	18 / 42 / 97.5
Date of measurements	27 – 28-Feb-2008
Measured by	Sami Lehtonen

3.1. Test setup



3.2. Test method and limit

The measurement is made according to FCC rules parts 22 and 24 and IC standards RSS-GEN, RSS-132 and RSS-133.

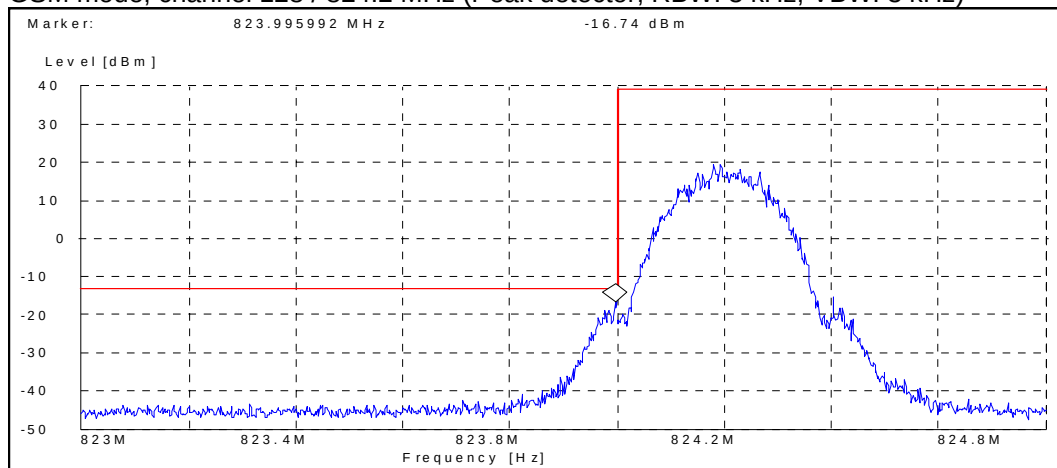
Limits for band edge compliance measurements

Operation band	Frequency range [MHz]	Limit [dBm]
GSM 850	Below 824 and above 849	-13
GSM 1900	Below 1850 and above 1910	-13

3.3. GSM 850 Test results

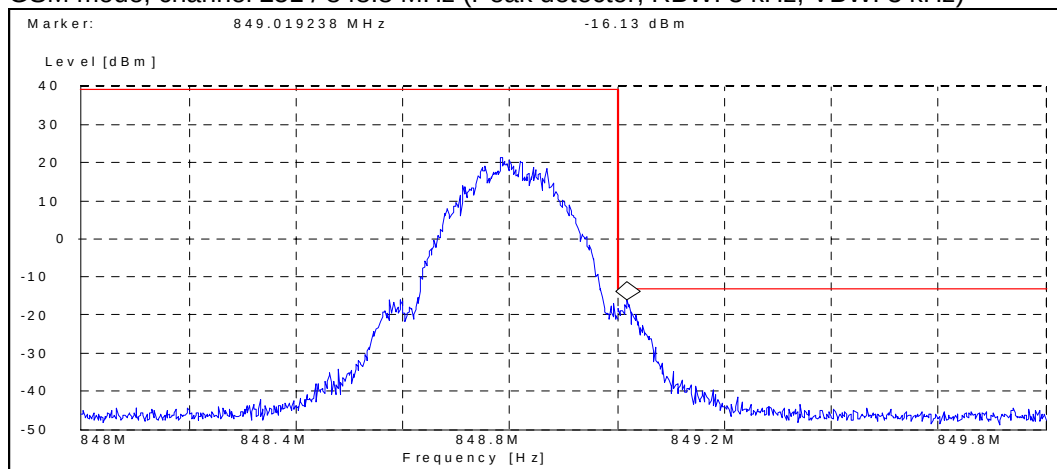
Slide Open:

GSM mode, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



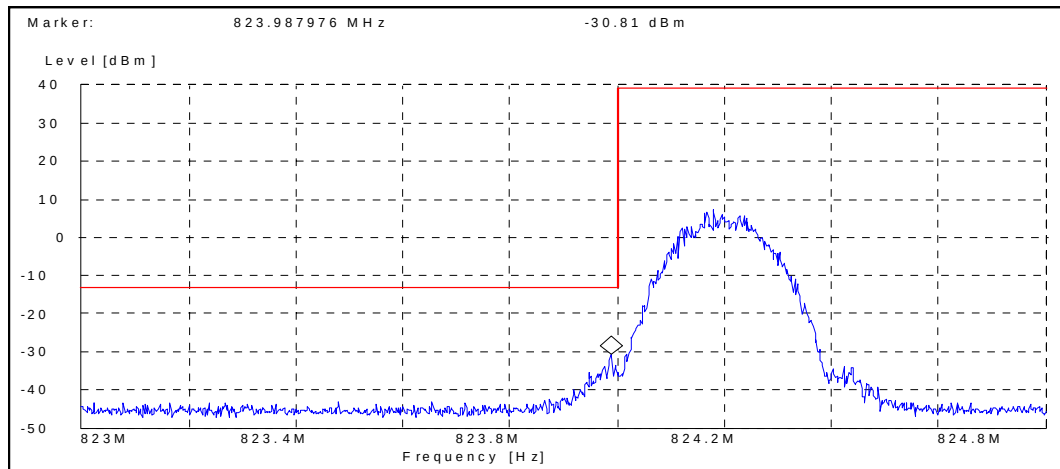
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	128 / 824.2	-16.70

GSM mode, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



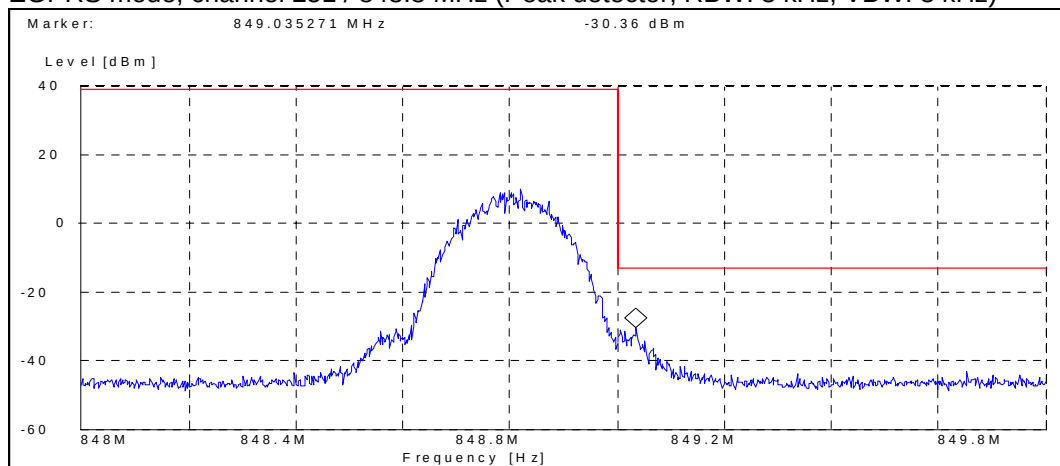
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	251 / 848.8	-16.10

EGPRS mode, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	128 / 824.2	-30.80

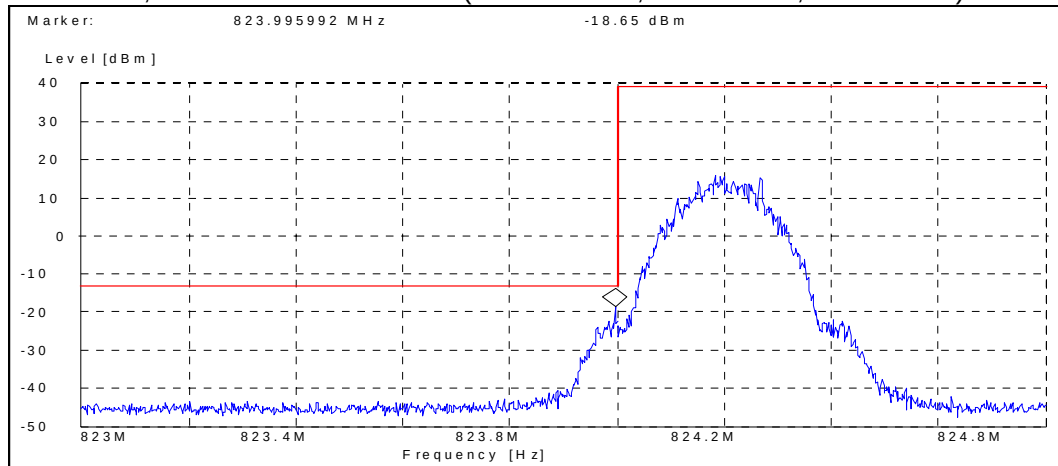
EGPRS mode, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	251 / 848.8	-30.40

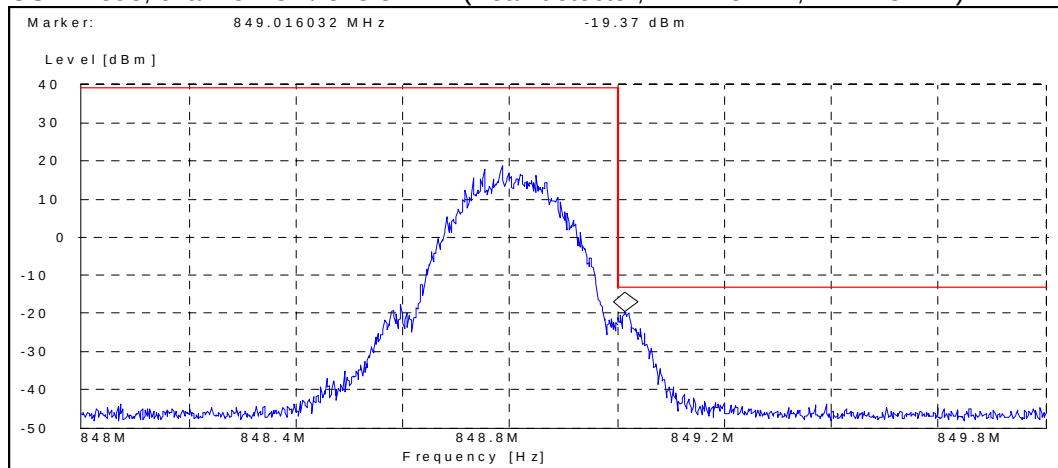
Slide closed:

GSM mode, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



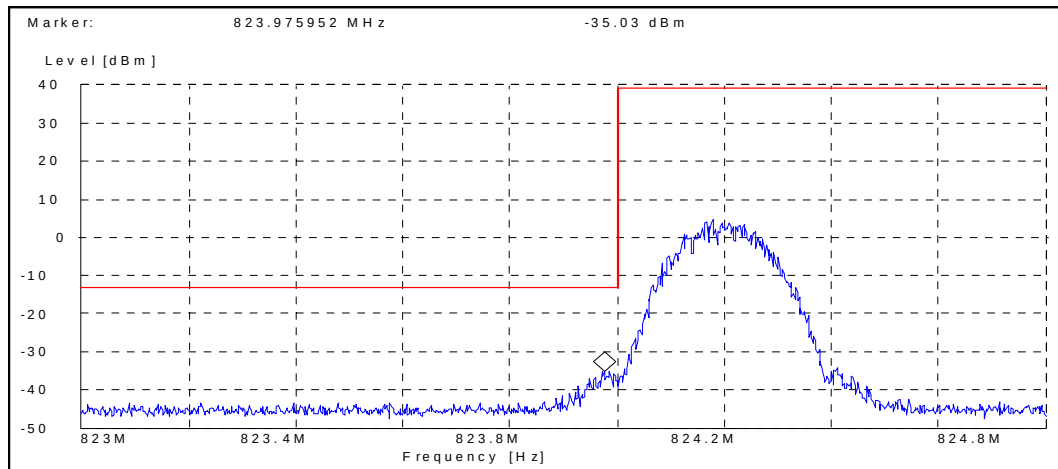
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	128 / 824.2	-18.60

GSM mode, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



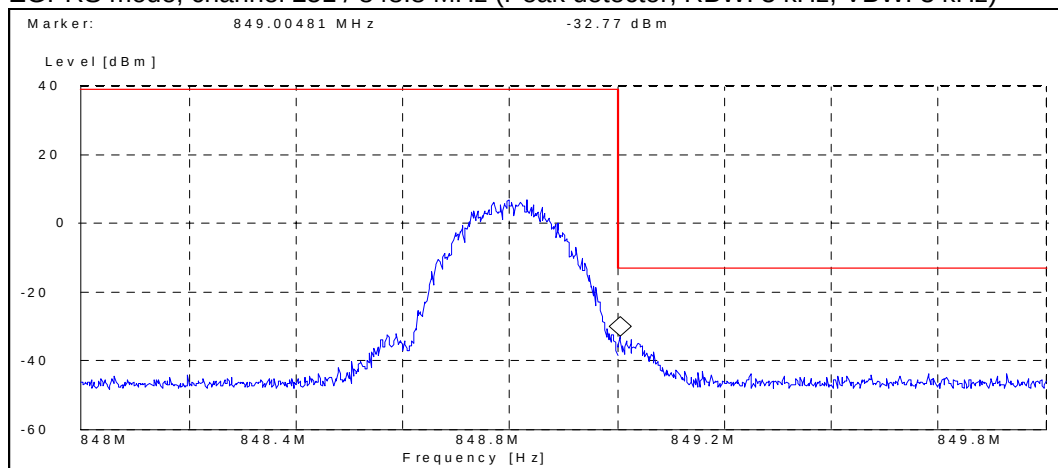
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	251 / 848.8	-19.40

EGPRS mode, channel 128 / 824.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	128 / 824.2	-35.00

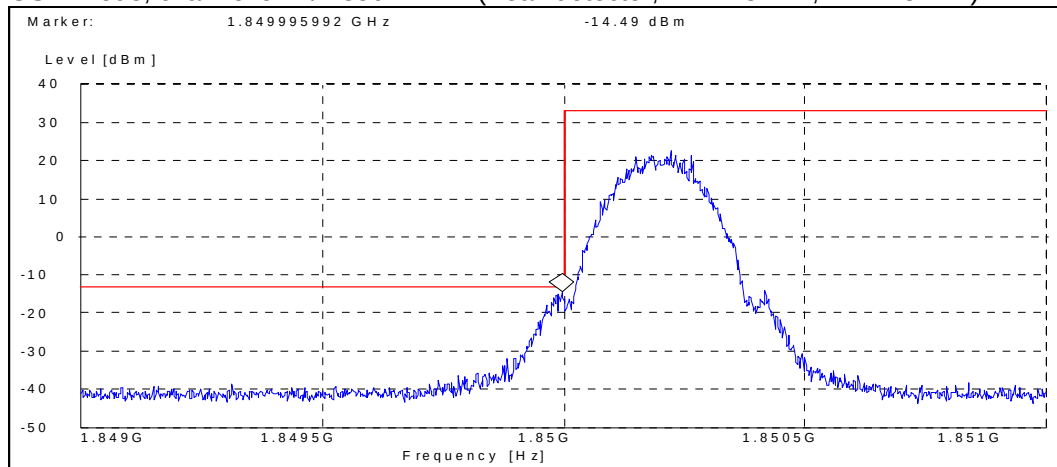
EGPRS mode, channel 251 / 848.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	251 / 848.8	-32.80

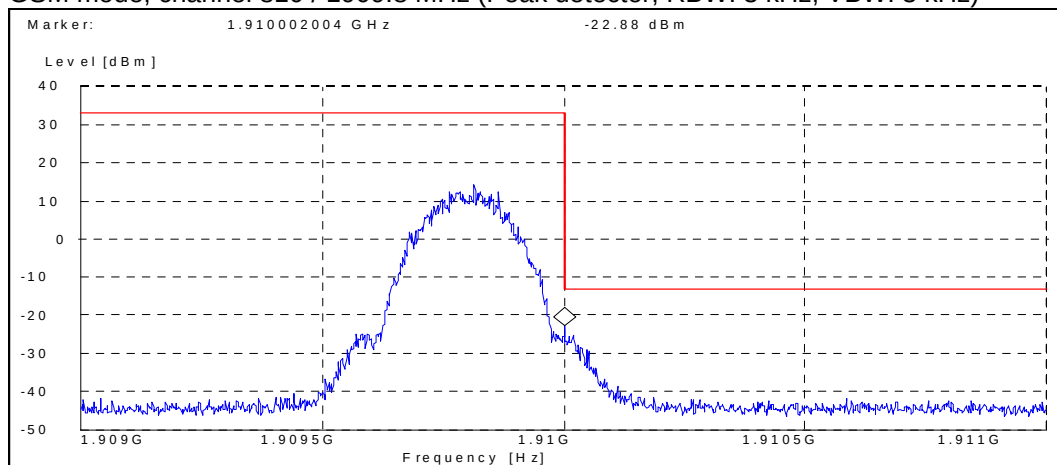
3.4. GSM 1900 Test results

GSM mode, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



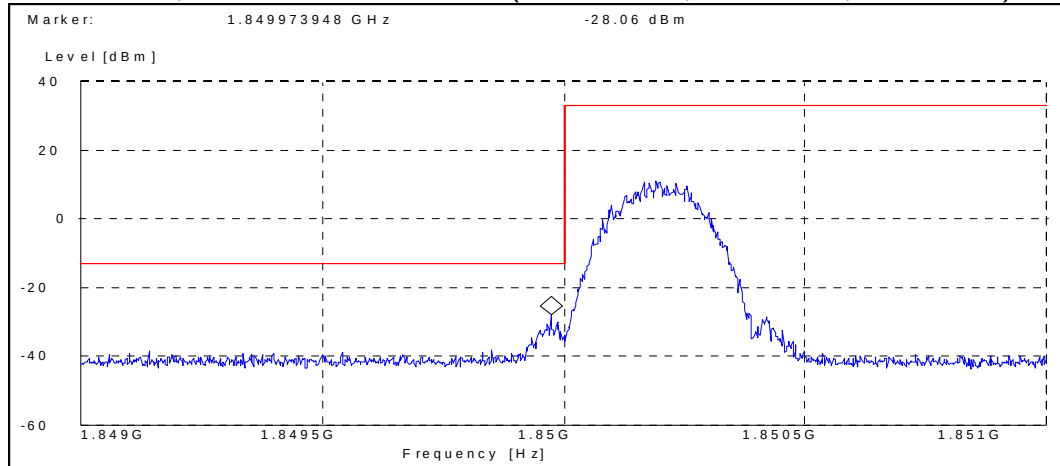
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	512 / 1850.2	-14.50

GSM mode, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



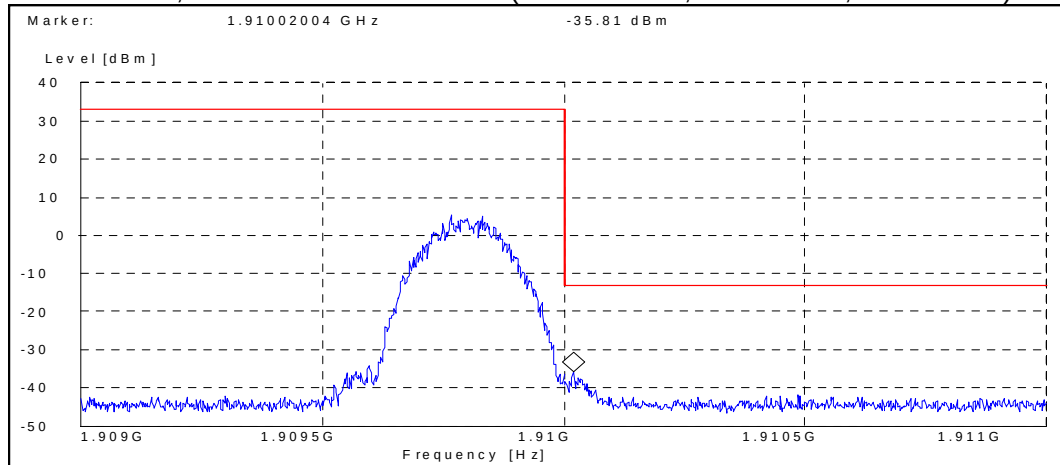
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	810 / 1909.8	-22.90

EGPRS mode, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	512 / 1850.2	-28.10

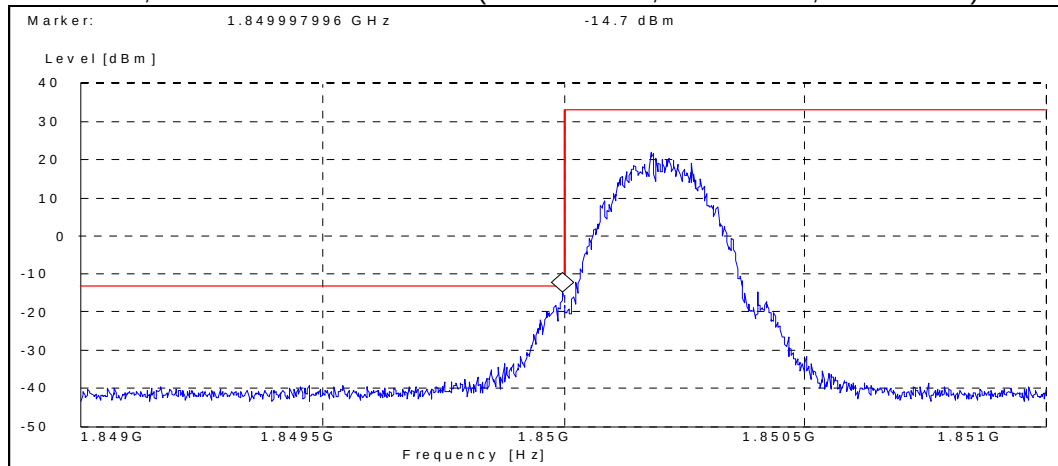
EGPRS mode, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	810 / 1909.8	-35.80

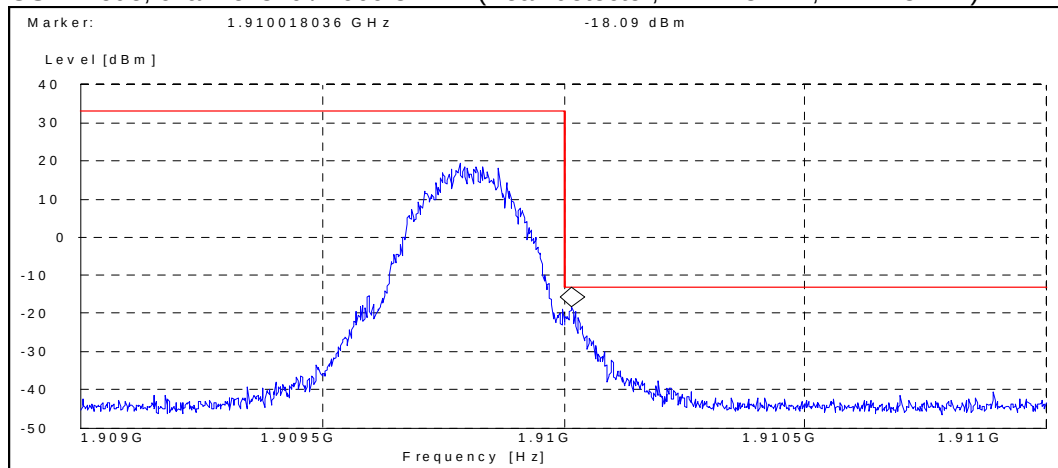
Slide Closed:

GSM mode, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



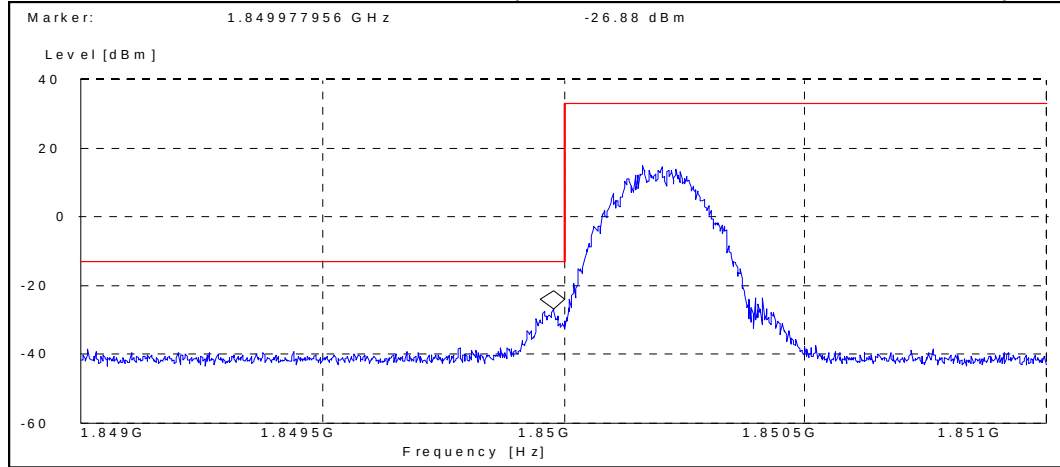
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	512 / 1850.2	-14.70

GSM mode, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



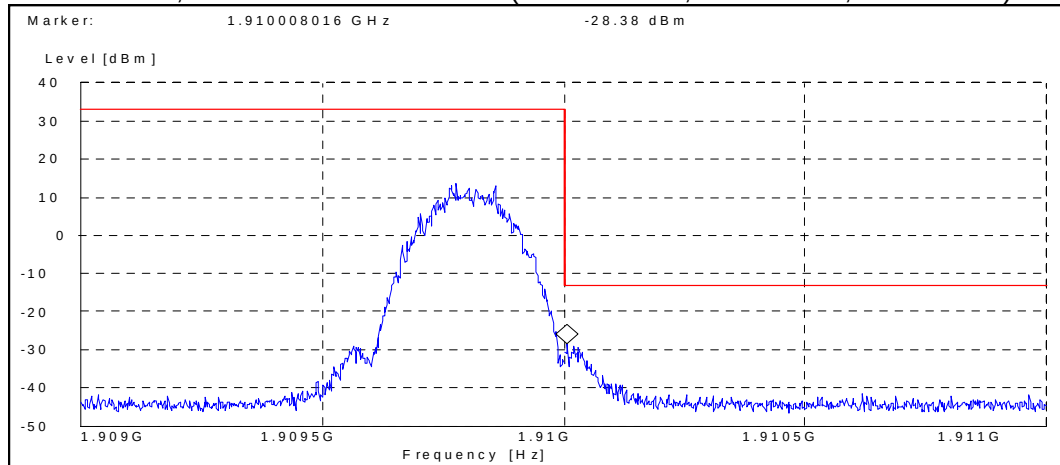
Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
GSM	810 / 1909.8	-18.10

EGPRS mode, channel 512 / 1850.2 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	512 / 1850.2	-26.90

EGPRS mode, channel 810 / 1909.8 MHz (Peak detector, RBW: 3 kHz, VBW: 3 kHz)



Operation mode (TX on)	Channel / f_c [MHz]	P [dBm]
EGPRS	810 / 1909.8	-28.40

4. Test Equipment

4.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1742	EMI Test Receiver	ESMI	R&S	15C, 15B
1759	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
1872	Thermo- Hygrograph	00.02520.150700	Lambrecht	15C, 15B
1916	Radio Communication tester	CMTA84	R&S	15C, 15B
2039	Power Supply	PL330QMD	THURLBY	15C, 15B
2060	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
2068	CDN-Antenna line	S1	NMP	15C, 15B
2097	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
2111	Multimeter	TX3	Tektronix	15C, 15B
2156	Digital Radio Communication Tester	CMU200	R&S	15C, 15B
2206	Signal generator	SMX	R&S	15C, 15B
2335	GPIO Switch 2 to 1	-	National Instruments	15C, 15B
2347	Digital Radio Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2352	Spectrum Analyzer	FSP	R&S	22/24/27, 15C
2359	Temperature Test system	VT4002	Vötsch Industrietechnik	22/24/27
2360	Serial Bus Converter	Serial 488A	IO Tech	22/24/27
2362	Power Supply	NGPX 70/5	R&S	22/24/27
2388	Bluetooth Tester	CBT	R&S	15C, 15B
-	RF Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1748	Log. per. Antenna	HL025	R&S	22/24/27, 15C
1749	Log. per. Antenna	HL025	R&S	22/24/27, 15C
1875	Thermo- Hygrograph	00.02520.150700	Lambrecht	22/24/27, 15C, 15B
1917	Radio Communication tester	CMTA84	R&S	22/24/27, 15C, 15B
1933	Precision half-wave dipole antennas	HZ-13	R&S	22/24/27, 15C
1938	Precision half-wave dipole antennas	HZ-12	R&S	22/24/27, 15C
2006	Radiation Reference Source	VSQ	MEB	22/24/27, 15C, 15B
2009	Signal generator	SMP 22	R&S	22/24/27, 15C, 15B
2019	Multimeter	34401A	HP	22/24/27, 15C, 15B
2027	Coupling and Decoupling Network	M2 (modified) DC1	MEB	22/24/27, 15C, 15B
2028	Coupling and Decoupling Network	M3 (modified) DC2	MEB	22/24/27, 15C, 15B
2029	Power Supply	PL330	THURLBY	22/24/27, 15C, 15B
2043	Band Reject Filter	WRCA824/849-0.2-6SS	Wainwright	22, 15C, 15B
2047	Band Reject Filter	WRCC1800/2000-0.2-10SS	Wainwright	24, 15C, 15B
2048	Band Reject Filter	WRCC1700/1800-0.2-10SS	Wainwright	27, 15C, 15B
2051	High Pass Filter	4HC1700-1-KK	R&S	22/24/27, 15C
2057	Log. per. Antenna	HL025	R&S	22/24/27, 15C
2109	Power Supply	PL330QMD	THURLBY	22/24/27, 15C, 15B
2110	Multimeter	34401A	HP	22/24/27, 15C, 15B
2112	Multimeter	TX3	Tektronix	22/24/27, 15C, 15B
2116	Controller	EMCO MODEL 2090	ETS	22/24/27, 15C, 15B
2133	Power Meter	NRVS	R&S	22/24/27, 15C
2134	Power Sensor	NRV-Z32	R&S	22/24/27, 15C
2135	Coupling and Decoupling Network	CDN 801-M3	LÜTHI	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
2138	Ultra Broadband Antenna	HL562	R&S	22/24/27, 15C, 15B
2140	Biconical Antenna	EMCO93110B	EMCO	22/24/27, 15C
2142	Log.-per.-dipol Antenna	3146	EMCO	22/24/27, 15C
2144	Attenuator	6803.17B	Huber-Suhner	22/24/27, 15C, 15B
2150	High Pass Filter	F-15041	RLC ELECTRONICS	22/24/27, 15C
2176	Coupling and Decoupling Network	CDN 801-M3	LÜTHI	22/24/27, 15C, 15B
2180	Digital Radio Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2188	Preamplifier	AFS4-00100300-20-23P-6	MITEQ	22/24/27, 15C, 15B
2330	EMI Test receiver	ESIB26	R&S	22/24/27, 15C, 15B
2334	GPIB Switch 2 to 1	-	National Instruments	22/24/27, 15C, 15B
2348	Yaesu controller	G-1000DXC	YAESU	22/24/27, 15C, 15B
2349	Computer controller (Yaesu)	GS-232B	YAESU	22/24/27, 15C, 15B
2350	Preamplifier	AMF-6D-020180-29-20P	MITEQ	22/24/27, 15C
2361	Anechoic chamber	3 meter semi/full anechoic chamber	Euroshield	22/24/27, 15C, 15B
2398	Horn antenna	HF906	R&S	22/24/27, 15C
2363	Band Reject Filter	WRCG 832/838-825/845/5SS	Wainwright	22/24/27
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	22/24/27
2365	Relay Switch Unit	TS-RSP	R&S	22/24/27, 15C, 15B
2366	Relay Switch Unit	TS-RSP	R&S	22/24/27, 15C, 15B
2384	Band Reject Filter	WRCG832/838-825/845-40/5SS	Wainwright	22/24/27
2388	Bluetooth Tester	CBT	R&S	15C, 15B
-	RF Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B