



TEST REPORT

No. I14Z49143-GTE01

for

ZTE Corporation

WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone

Model Name: ZTE Blade L3/Blade L3

FCC ID: SRQ-ZTEBLADEL3

with

Hardware Version: WMBX

Software Version: ZTE_CN_QB125S_P182A20V1.0.0

Issued Date: 2015-01-19

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629B

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1. Test Laboratory

1.1. Testing Location

Company Name: CTTL, Telecommunication Technology Labs, Academy of
Telecommunication Research, MIIT
Address: 3/F Shou Xiang Technology Building, No.51 Xueyuan Road, Hai
Dian District, Beijing, P. R. China
Postal Code: 100191
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Fax: 00861062304793

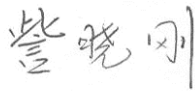
1.2. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

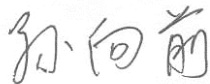
1.3. Project data

Testing Start Date: 2014-12-22
Testing End Date: 2015-01-14

1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd
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Pudong Area Shanghai, P.R. China. 201203
Contact Person: Gong Zhizhou
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Telephone: 0086-21-51798260
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
Contact Person: Gong Zhizhou
Contact Email zhizhou.gong@tcl.com
Telephone: 0086-21-51798260
Fax: 0086-21-61460602

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone
Model Name	ZTE Blade L3/Blade L3
FCC ID	SRQ-ZTEBLADEL3
Frequency	GSM850; PCS1900; WCDMA Band II ;WCDMA Band V
Antenna	Integrated
Output power	31.10dBm maximum EIRP measured for PCS1900
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.7VDC)
Extreme temp. Tolerance	-30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT01a	866254020016214	WMBX	ZTE_CN_QB125S_P182A20V1.0.0
UT03a	866254020016255	WMBX	ZTE_CN_QB125S_P182A20V1.0.0

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Battery	A0171411200016060	1449143BA004
AE2	Battery	A0171411200035229	1449143BA006
AE11	Travel charger	/	1449143CH006
AE12	Travel charger	/	1449143CH003
AE17	USB cable	/	1449143DC001
AE18	USB cable	/	1449143DC005

AE1, AE2

Model	Li3820T43P3h785439
Manufacturer	BAK
Capacitance	2000mAh
Nominal voltage	3.8V

AE11, AE12

Model	STC-A51-A
Manufacturer	RUIDE
Length of cable	/



AE17

Model	/
Manufacturer	/
Length of cable	68cm

AE18

Model	/
Manufacturer	/
Length of cable	68cm

*AE ID: is used to identify the test sample in the lab internally.

3.4. Normal Accessory setting

Fully charged battery was used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of WCDMA/GSM (GPRS) Dual-Mode Digital mobile phone with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-13 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-13 Edition
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2004
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v02r01

5. LABORATORY ENVIRONMENT

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters X 6.1 meters X 3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters X 6.7 meters X 6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz



6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(c)	P
2	Emission Limit	2.1051/22.917/24.238	P
3	Frequency Stability	2.1055/24.235	P
4	Occupied Bandwidth	2.1049(h)(i)	P
5	Emission Bandwidth	22.917(b)/24.238(b)	P
6	Band Edge Compliance	22.917(b)/24.238(b)	P
7	Conducted Spurious Emission	2.1057/22.917/24.238	P

7. Test Equipments Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE	Calibration interval
1	Test Receiver	ESCI	100344	R&S	2015-03-03	1 year
2	Test Receiver	ESU26	100376	R&S	2015-10-29	1 year
3	EMI Antenna	VULB 9163	302	Schwarzbeck	2017-1-3	3 year
4	EMI Antenna	3117	00119024	ETS-Lindgren	2016-01-20	3 year
5	LISN	NV216	101200	R&S	2015-07-07	1 year
6	Universal Radio Communication Tester	CMU200	108646	R&S	2015-10-28	1 year
7	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2015-02-27	1 year
8	Spectrum Analyzer	E4440A	MY48250642	Agilent	2015-02-27	1 year
9	EMI Antenna	9117	167	Schwarzbeck	2016-04-01	3 year
10	EMI Antenna	VULB 9163	9163 175	Schwarzbeck	2015-07-15	3 year
11	EMI Antenna	3117	00119024	ETS-Lindgren	2016-01-20	3 year
12	Signal Generator	N5183A	MY49060052	Agilent	2015-03-02	1 year
13	Climate chamber	SH-241	92007454	ESPEC	2015-12-14	2 year
14	Loop Antenna	HFH2-Z2	829324/007	R&S	2017-12-10	3 year

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation. These measurements were done at 3 frequencies, 1850.2 MHz, 1880.0MHz and 1909.8MHz for PCS1900 band; 824.2MHz, 836.6MHz and 848.8MHz for GSM850 band. (bottom, middle and top of operational frequency range).

GSM850

	Power step	Nominal Peak output power (dBm)
GSM	5	33dBm(2W)
GPRS	3	33dBm(2W)
EGPRS	3	33dBm(2W)

Measurement result

GSM(GMSK)

Frequency(MHz)	Power Step	Output power(dBm)
824.2	5	31.75
836.6	5	31.74
848.8	5	31.76

GPRS(GMSK,1Slot)

Frequency(MHz)	Power Step	Output power(dBm)
824.2	3	31.82
836.6	3	31.77
848.8	3	31.78

EGPRS(GMSK,1Slot)

Frequency(MHz)	Power Step	Output power(dBm)
824.2	3	31.83
836.6	3	31.78
848.8	3	31.79

PCS1900

	Power step	Nominal Peak output power (dBm)
GSM	0	30dBm(1W)
GPRS	3	30dBm(1W)
EGPRS	3	30dBm(1W)

Measurement result

GSM(GMSK)

Frequency(MHz)	Power Step	Output power(dBm)
1850.2	0	29.40
1880.0	0	29.07
1909.8	0	28.99

GPRS(GMSK,1Slot)

Frequency(MHz)	Power Step	Output power(dBm)
1850.2	3	29.15
1880.0	3	29.09
1909.8	3	29.01

EGPRS(GMSK,1Slot)

Frequency(MHz)	Power Step	Output power(dBm)
1850.2	3	29.27
1880.0	3	29.18
1909.8	3	29.03

A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

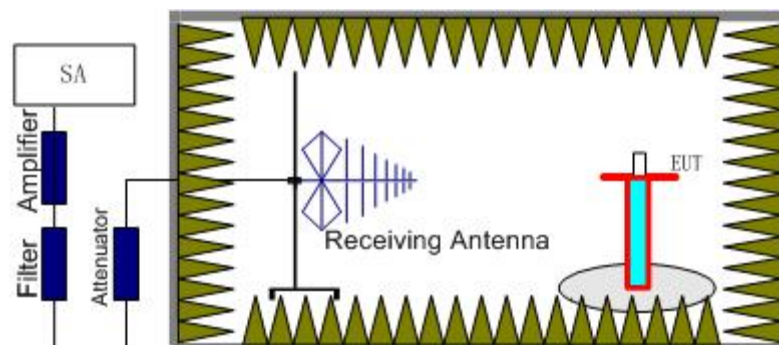
Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

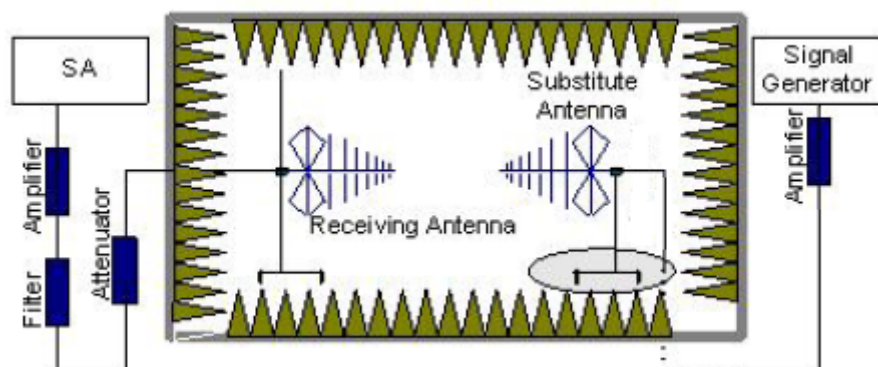
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603C-2004 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is

connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.

The cable loss (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} - G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

GSM 850-ERP 22.913(a)

Limits

	Power Step	Burst Peak ERP (dBm)
GSM	5	≤38.45dBm (7W)
GPRS	3	≤38.45dBm (7W)
EGPRS	3	≤38.45dBm (7W)

Measurement result

GSM

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
824.20	-14.49	2.26	-45.79	-0.96	2.15	27.85	38.45	10.60	H
836.60	-14.03	2.26	-45.66	-0.82	2.15	28.04	38.45	10.41	V
848.80	-13.17	2.28	-45.54	-0.79	2.15	28.73	38.45	9.72	V

GPRS

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
824.20	-14.48	2.26	-45.79	-0.96	2.15	27.86	38.45	10.59	H
836.60	-14.01	2.26	-45.66	-0.82	2.15	28.06	38.45	10.39	V
848.80	-13.18	2.28	-45.54	-0.79	2.15	28.72	38.45	9.73	V

EGPRS-GMSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dB)	ERP(dBm)	Limit(dBm)	Margin(dB)	Polarization
824.20	-14.47	2.26	-45.79	-0.96	2.15	27.87	38.45	10.58	H
836.60	-14.00	2.26	-45.66	-0.82	2.15	28.07	38.45	10.38	V
848.80	-13.15	2.28	-45.54	-0.79	2.15	28.75	38.45	9.70	V

Frequency: 848.80MHz

Peak ERP(dBm)=P_{Mea}(-13.15dBm)-P_{cl}(2.28dB)-P_{Ag}(-45.54dB)-G_a (-0.79dB)-2.15dB=28.75dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

PCS1900-EIRP 24.232(c)

Limits

	Power Step	Burst Peak EIRP (dBm)
GSM	0	≤33dBm (2W)
GPRS	3	≤33dBm (2W)
EGPRS	3	≤33dBm (2W)

Measurement result

GSM

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.20	-16.91	2.93	-43.75	-5.25	29.16	33.00	3.84	H
1880.00	-15.04	2.85	-43.75	-5.19	31.05	33.00	1.95	H
1909.80	-15.17	2.89	-43.77	-5.13	30.84	33.00	2.16	H

GPRS

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.20	-16.89	2.93	-43.75	-5.25	29.18	33.00	3.82	H
1880.00	-15.01	2.85	-43.75	-5.19	31.08	33.00	1.92	H
1909.80	-15.15	2.89	-43.77	-5.13	30.86	33.00	2.14	H

EGPRS-GMSK

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
1850.20	-16.96	2.93	-43.75	-5.25	29.11	33.00	3.89	H
1880.00	-14.99	2.85	-43.75	-5.19	31.10	33.00	1.90	H
1909.80	-15.16	2.89	-43.77	-5.13	30.85	33.00	2.15	H

Frequency: 1880.00MHz

Peak EIRP(dBm)= P_{Mea}(-14.99dBm) - P_{cl}(2.85dB) - P_{Ag}(-43.75dB) - G_a (-5.19dB) =31.10dBm

ANALYZER SETTINGS: RBW = VBW = 3MHz

A.2 EMISSION LIMIT

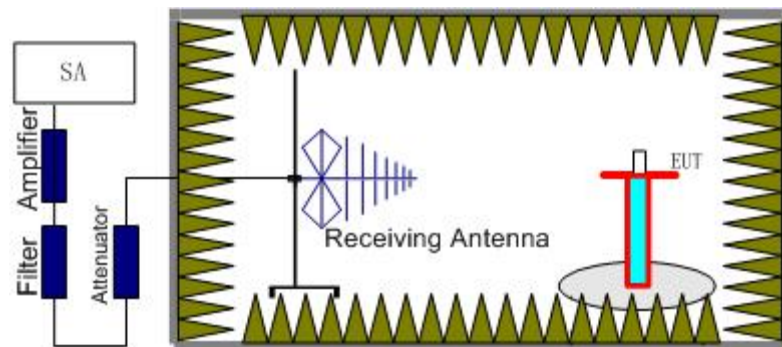
A.2.1 Measurement Method

The measurement procedures in TIA-603C-2004 are used.

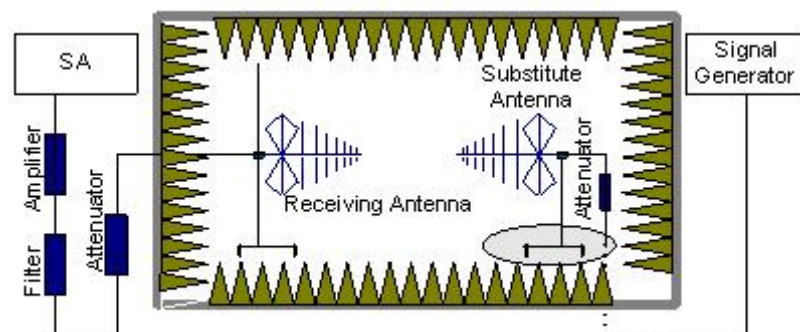
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238 and Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{pl} - G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

A.2.2 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) and GSM850 band (824.2MHz, 836.6MHz, 848.8MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
GSM 850MHz	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
GSM 1900MHz	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
850MHz	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
1900MHz	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2

GSM Mode Channel 128/824.2MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Margin(dB)	Polarization
1648.47	-44.72	3.41	-5.65	2.15	-44.63	-13.00	31.63	V
3296.90	-49.52	5.35	-7.11	2.15	-49.91	-13.00	36.91	V
4121.05	-51.30	5.80	-8.35	2.15	-50.90	-13.00	37.90	V
4945.41	-55.80	6.32	-9.32	2.15	-54.95	-13.00	41.95	H
5769.77	-55.92	6.79	-10.07	2.15	-54.79	-13.00	41.79	H
6588.28	-57.60	7.04	-10.55	2.15	-56.24	-13.00	43.24	H

GSM Mode Channel 190/836.6MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Margin(dB)	Polarization
1673.06	-44.71	3.54	-5.60	2.15	-44.80	-13.00	31.80	V
3346.49	-49.24	5.22	-7.23	2.15	-49.38	-13.00	36.38	V
4182.64	-49.95	5.83	-8.39	2.15	-49.54	-13.00	36.54	V
5027.95	-57.46	6.29	-9.45	2.15	-56.45	-13.00	43.45	H
5856.40	-52.96	6.67	-10.08	2.15	-51.70	-13.00	38.70	H
6686.89	-58.15	7.29	-10.62	2.15	-56.97	-13.00	43.97	V

GSM Mode Channel 251/848.8MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Margin(dB)	Polarization
1697.46	-45.64	3.45	-5.56	2.15	-45.68	-13.00	32.68	V
3385.66	-57.79	5.37	-7.33	2.15	-57.98	-13.00	44.98	H
4243.79	-50.65	6.05	-8.43	2.15	-50.42	-13.00	37.42	V
5091.73	-57.39	6.46	-9.53	2.15	-56.47	-13.00	43.47	H
5941.87	-51.91	6.93	-10.08	2.15	-50.91	-13.00	37.91	H
6790.63	-57.68	7.06	-10.69	2.15	-56.20	-13.00	43.20	H

GSM Mode Channel 512/1850.2MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3700.22	-49.99	5.34	-7.87	-47.46	-13.00	34.46	V
5550.72	-42.21	6.60	-10.05	-38.76	-13.00	25.76	V
7401.05	-44.94	7.20	-11.15	-40.99	-13.00	27.99	H
9250.79	-30.86	8.23	-12.25	-26.84	-13.00	13.84	H
11100.94	-31.43	8.92	-12.22	-28.13	-13.00	15.13	H
12955.45	-52.98	9.53	-12.68	-49.83	-13.00	36.83	H

GSM Mode Channel 661/1880.0MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3759.74	-51.21	5.14	-7.95	-48.40	-13.00	35.40	V
5639.86	-44.52	6.85	-10.05	-41.32	-13.00	28.32	V
7519.98	-45.85	7.52	-11.25	-42.12	-13.00	29.12	H
9399.63	-29.67	7.99	-12.33	-25.33	-13.00	12.33	H
11279.65	-35.13	9.21	-12.32	-32.02	-13.00	19.02	H
13161.02	-50.87	9.71	-12.98	-47.60	-13.00	34.60	H

GSM Mode Channel 810/1909.8MHz

Frequency(MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3819.49	-51.14	5.48	-8.03	-48.59	-13.00	35.59	V
5729.40	-50.10	6.76	-10.06	-46.80	-13.00	33.80	H
7639.25	-46.04	7.57	-11.36	-42.25	-13.00	29.25	H
9549.34	-34.32	8.21	-12.35	-30.18	-13.00	17.18	V
11458.95	-35.85	8.88	-12.42	-32.31	-13.00	19.31	H
13336.41	-49.39	9.72	-13.27	-45.84	-13.00	32.84	V

A.3 FREQUENCY STABILITY

A.3.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on mid channel of PCS 1900 and GSM850, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.3.2 Measurement Limit

A.3.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.35VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.3.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section

2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

A.3.3 Measurement results

GSM 850

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-24	0.029
3.7	-28	0.034
4.35	-22	0.027

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-22	0.026
-20	-23	0.028
-10	-19	0.023
0	-20	0.024
10	-21	0.025
20	-22	0.027
30	-24	0.029
40	-44	0.052
50	-29	0.035

PCS 1900

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-24	0.013
3.7	-26	0.014
4.35	-25	0.014

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-23	0.012
-20	-49	0.026
-10	-24	0.013
0	-23	0.012
10	-39	0.021
20	-43	0.023
30	-39	0.021
40	-30	0.016
50	-40	0.022

A.4 OCCUPIED BANDWIDTH

Reference

FCC: CFR Part 2.1049(h)(i)

A.4.1 Occupied Bandwidth Results

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the US Cellular/PCS frequency bands. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from KDB 971168 v02r01 4.2:

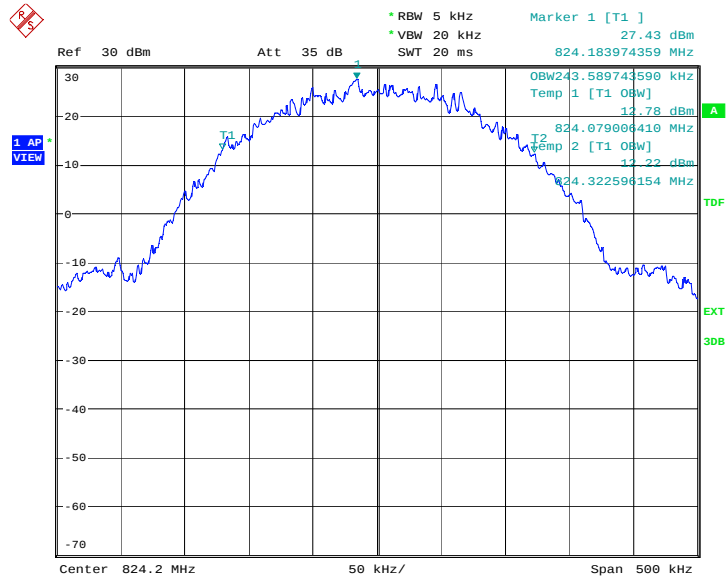
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log (OBW / RBW)$ below the reference level.
- e) Set the detection mode to peak, and the trace mode to max hold.
- d) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

GSM 850(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
824.2	243.590
836.6	247.596
848.8	244.391

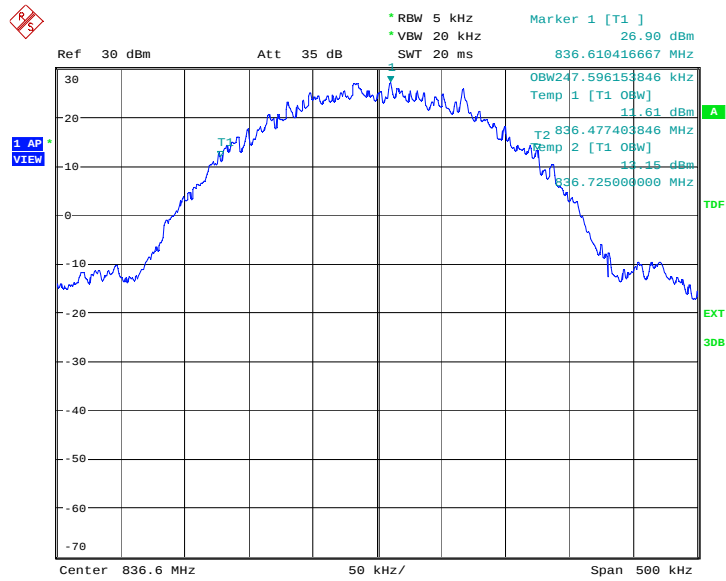
GSM 850

Channel 128-Occupied Bandwidth (99% BW)



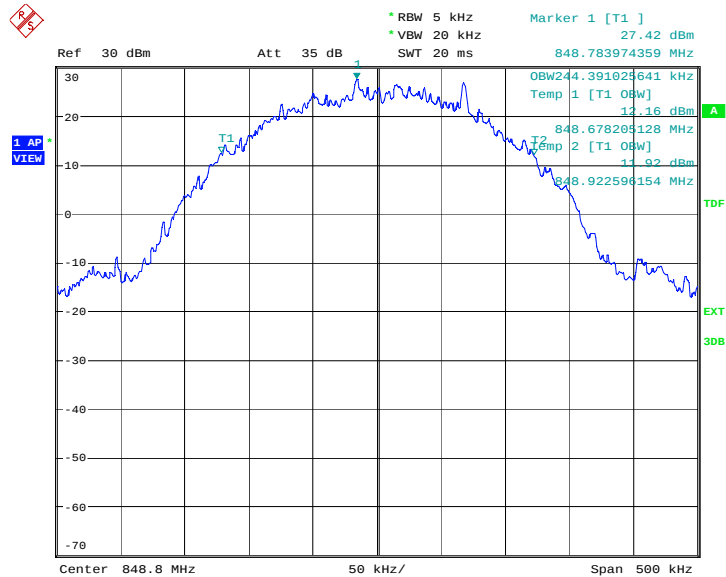
Date: 4.JAN.2015 19:23:55

Channel 190-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 19:24:27

Channel 251-Occupied Bandwidth (99% BW)



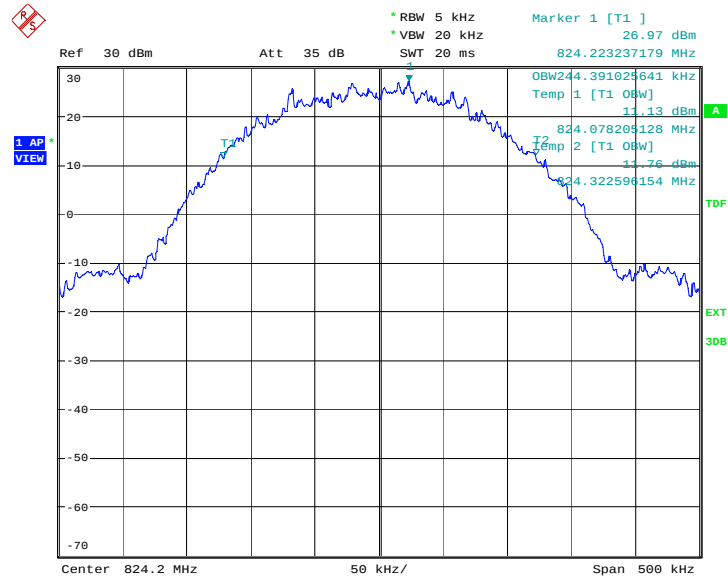
Date: 4.JAN.2015 19:24:59

GPRS 850(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
824.2	244.391
836.6	245.192
848.8	244.391

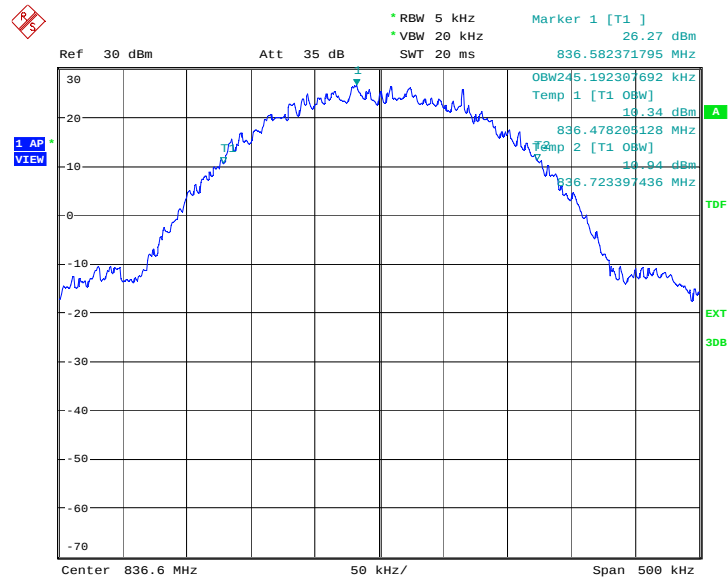
GPRS 850

Channel 128-Occupied Bandwidth (99% BW)



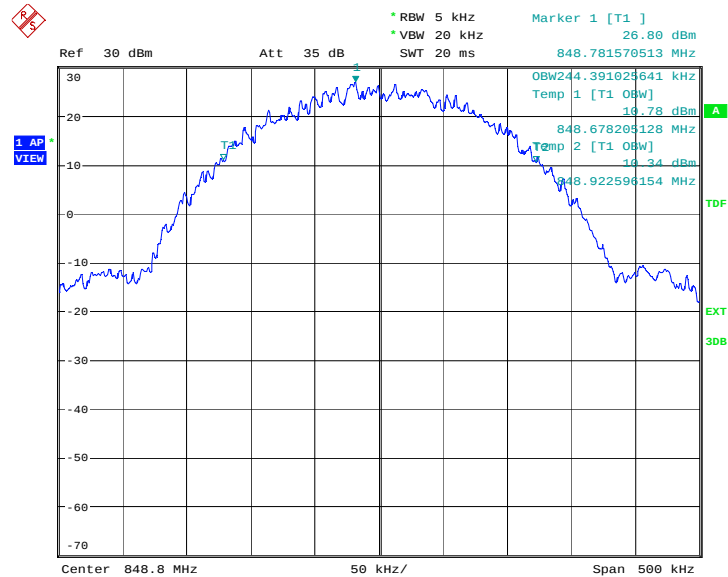
Date: 4.JAN.2015 16:21:23

Channel 190-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 16:21:55

Channel 251-Occupied Bandwidth (99% BW)



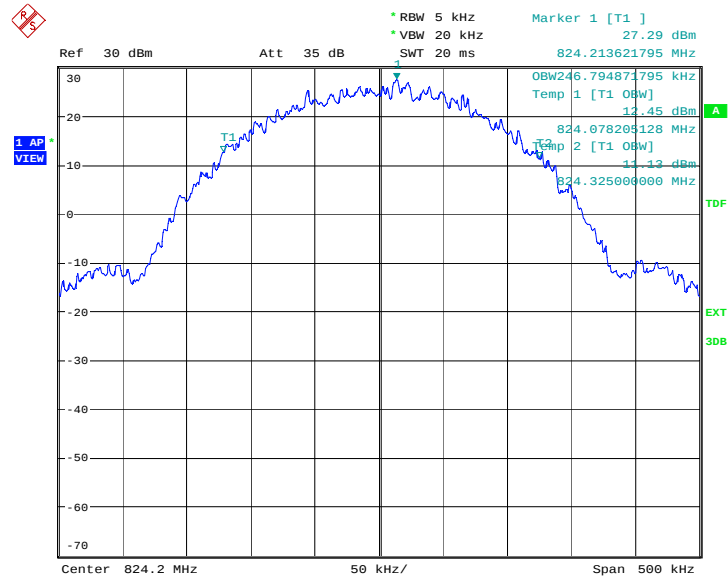
Date: 4.JAN.2015 16:22:27

EGPRS 850-GMSK(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
824.2	246.795
836.6	245.192
848.8	245.192

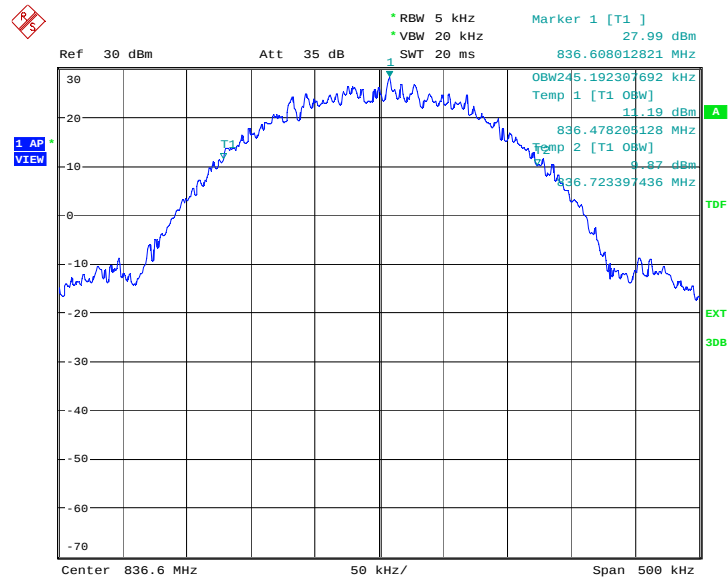
EGPRS 850-GMSK

Channel 128-Occupied Bandwidth (99% BW)



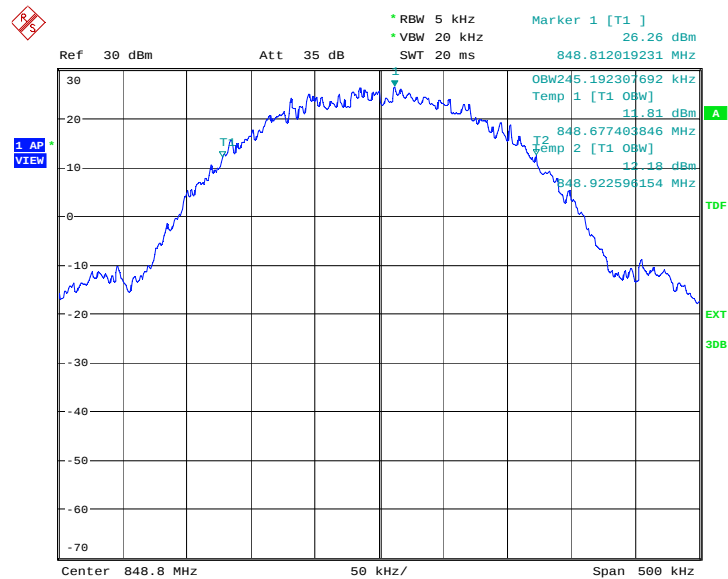
Date: 4.JAN.2015 19:03:39

Channel 190-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 19:04:12

Channel 251-Occupied Bandwidth (99% BW)



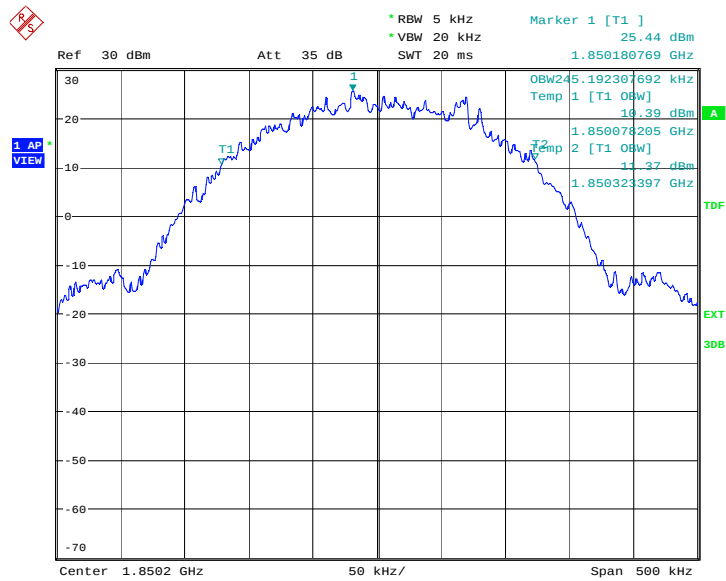
Date: 4.JAN.2015 19:04:44

PCS 1900(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
1850.2	245.192
1880.0	244.391
1909.8	244.391

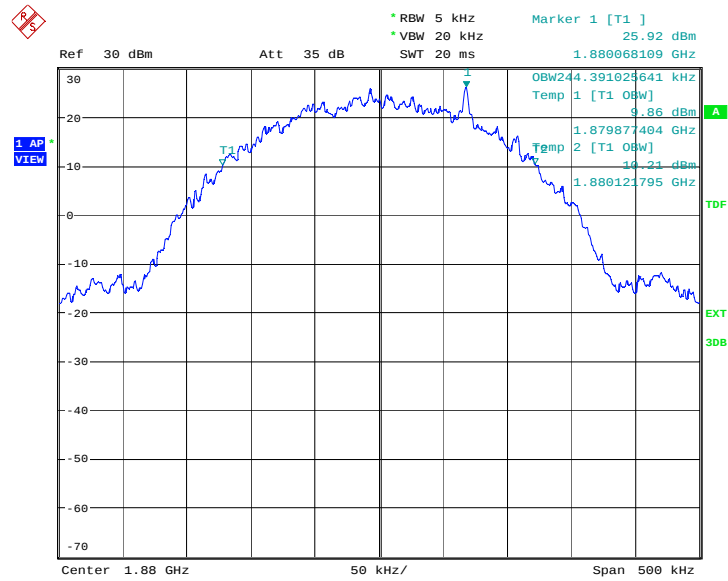
PCS 1900

Channel 512-Occupied Bandwidth (99% BW)



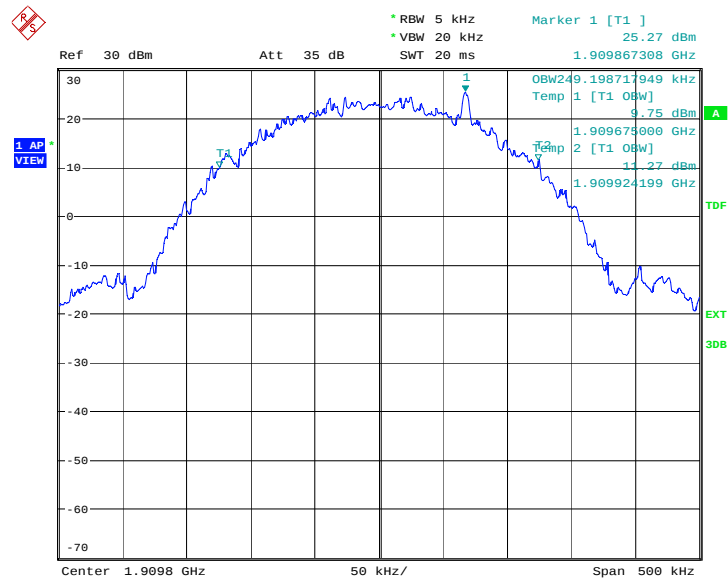
Date: 4.JAN.2015 19:42:17

Channel 661-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 19:42:49

Channel 810-Occupied Bandwidth (99% BW)



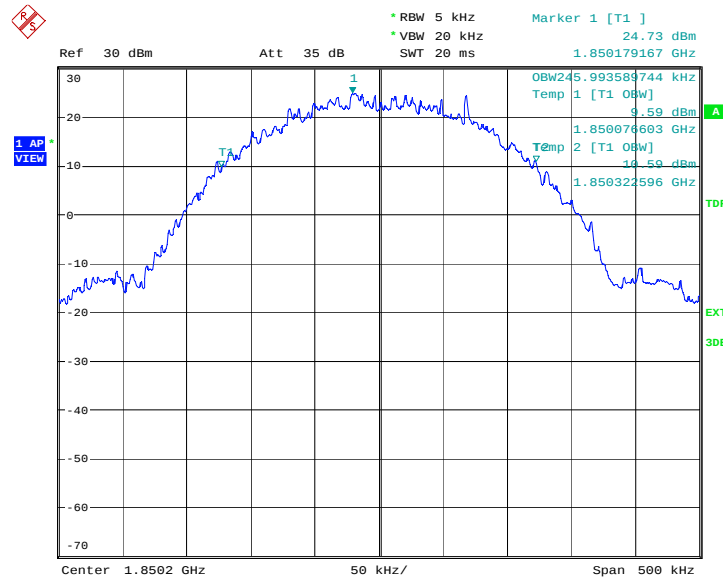
Date: 4.JAN.2015 19:43:21

GPRS 1900(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
1850.2	245.994
1880.0	246.795
1909.8	242.788

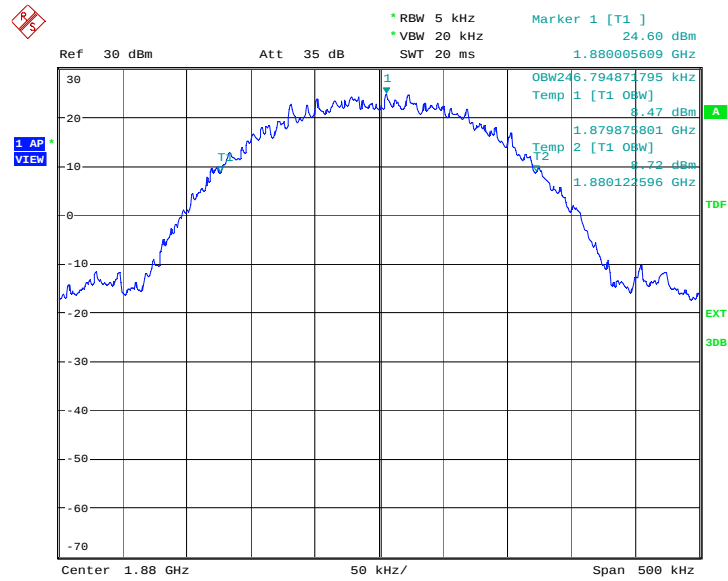
GPRS 1900

Channel 512-Occupied Bandwidth (99% BW)



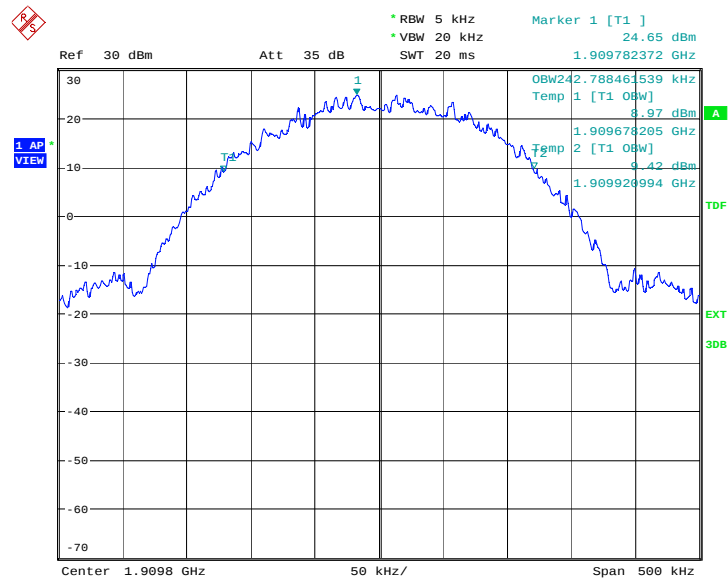
Date: 4.JAN.2015 16:32:33

Channel 661-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 16:33:05

Channel 810-Occupied Bandwidth (99% BW)



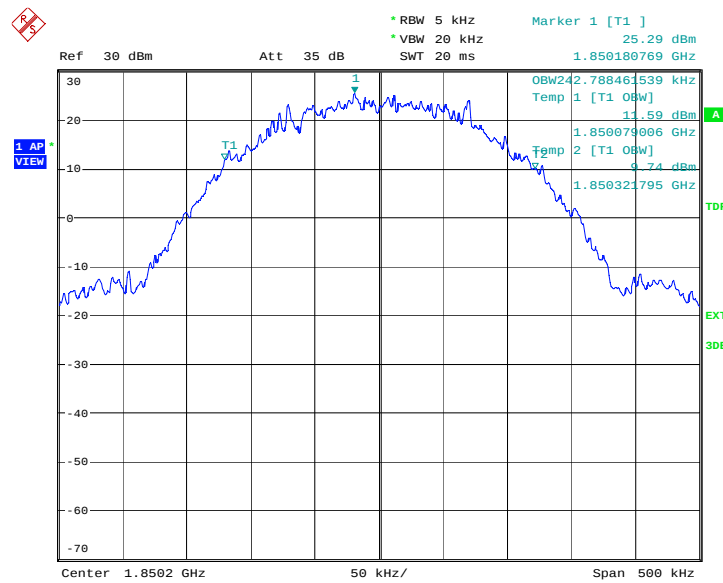
Date: 4.JAN.2015 16:33:38

EGPRS 1900-GMSK(99% BW)

Frequency(MHz)	Occupied Bandwidth (99% BW)(kHz)
1850.2	242.788
1880.0	244.391
1909.8	245.994

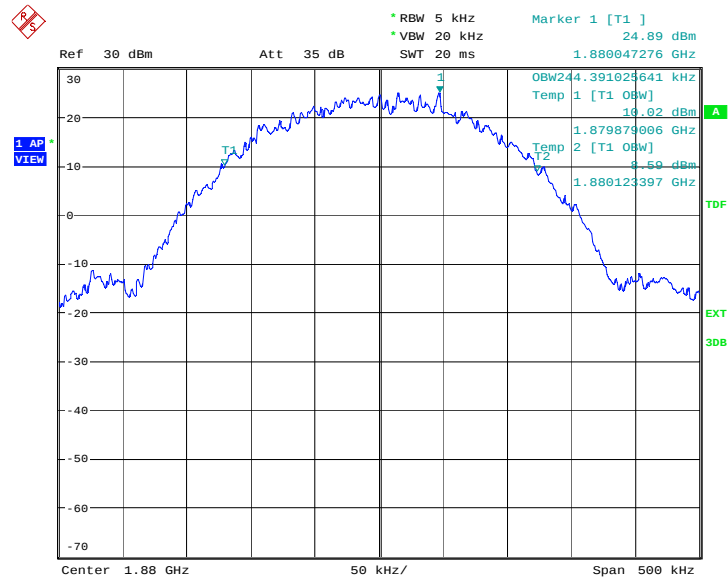
EGPRS 1900-GMSK

Channel 512-Occupied Bandwidth (99% BW)



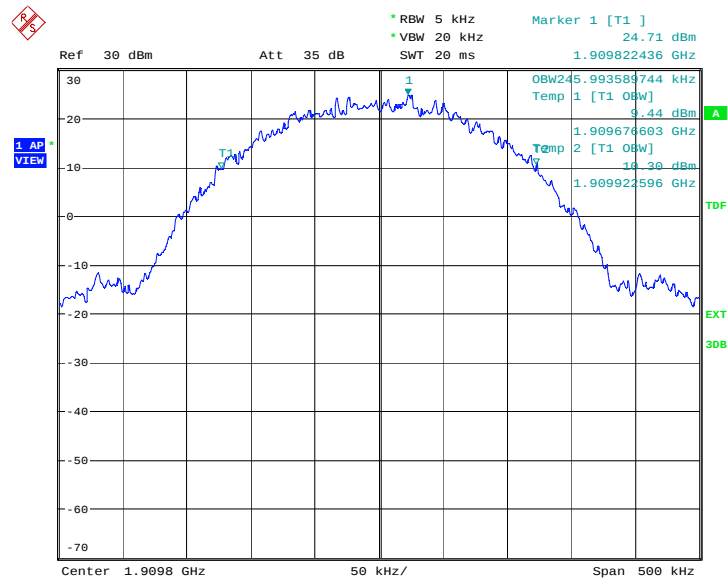
Date: 4.JAN.2015 19:14:48

Channel 661-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 19:15:20

Channel 810-Occupied Bandwidth (99% BW)



Date: 4.JAN.2015 19:15:52

A.5 EMISSION BANDWIDTH

Reference

FCC: CFR Part 22.917(b), 24.238(a)

A.5.1 Emission Bandwidth Results

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

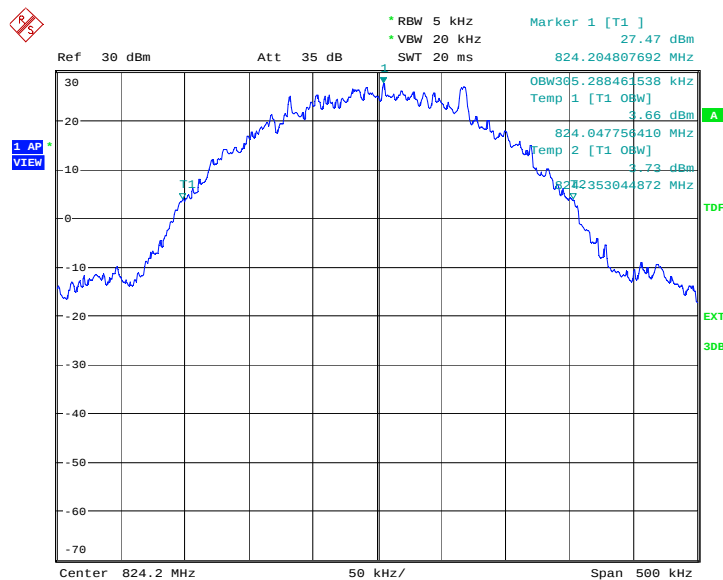
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of PCS1900 band and GSM850 band. Table below lists the measured 100% BW. Spectrum analyzer plots are included on the following pages.

GSM 850(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
824.2	305.288
836.6	306.090
848.8	306.891

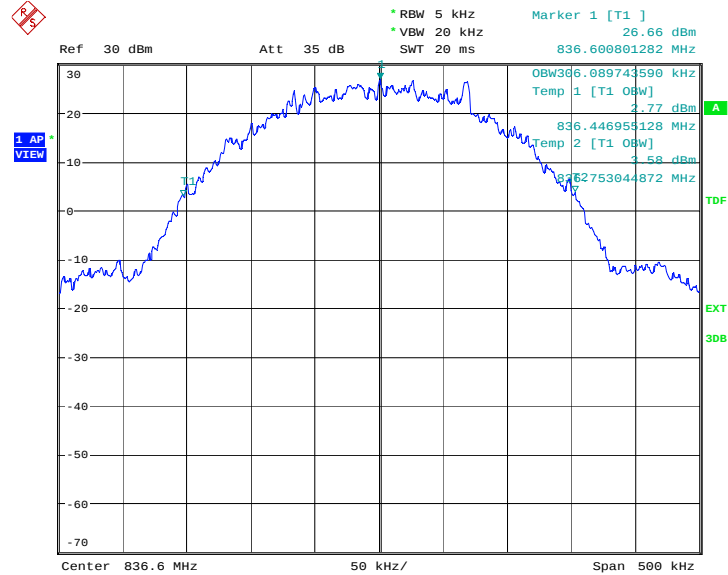
GSM 850

Channel 128-Emission Bandwidth (100% BW)



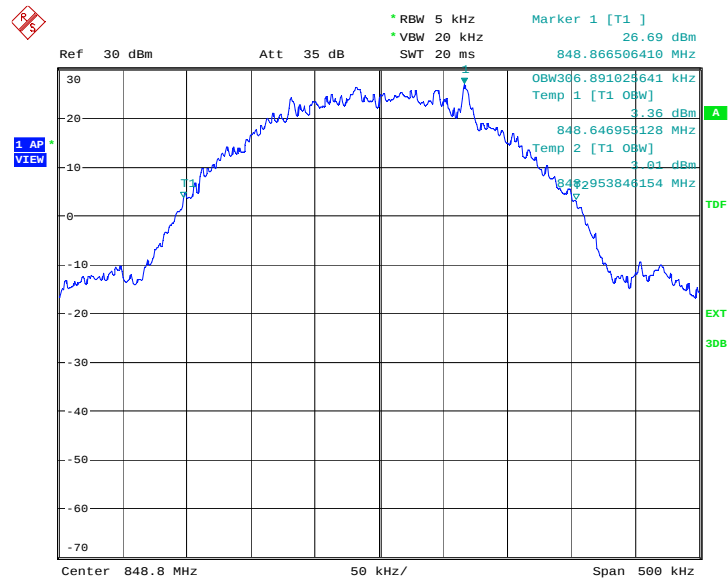
Date: 4. JAN. 2015 19:25:33

Channel 190-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 19:26:05

Channel 251-Emission Bandwidth (100% BW)



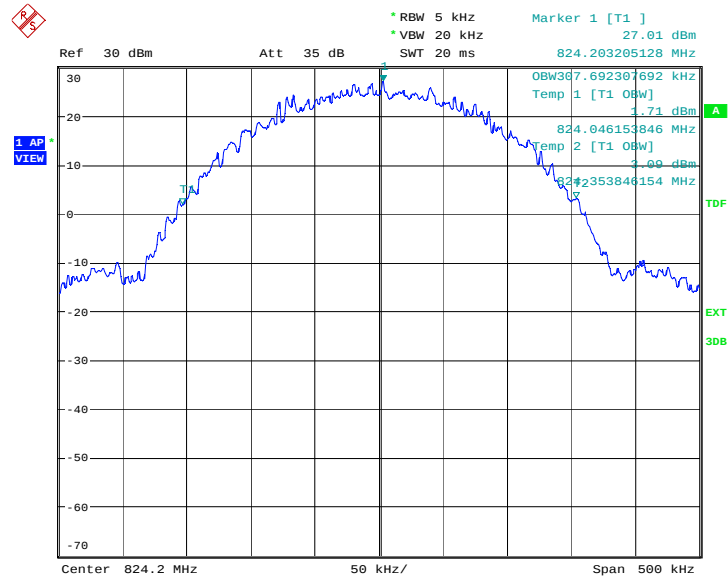
Date: 4.JAN.2015 19:26:37

GPRS 850(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
824.2	307.692
836.6	307.692
848.8	308.494

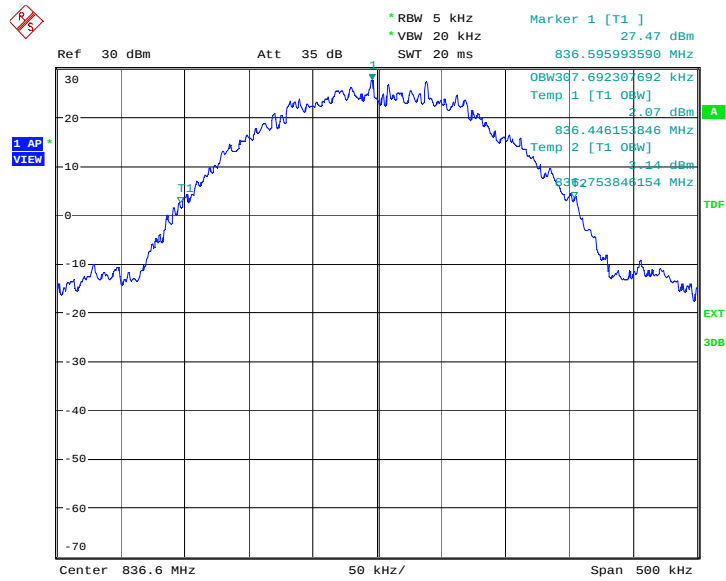
GPRS 850

Channel 128-Emission Bandwidth (100% BW)



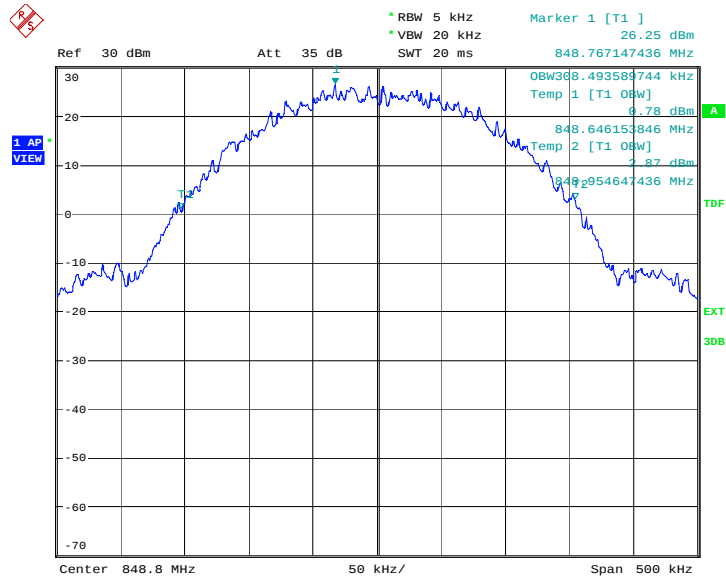
Date: 4.JAN.2015 16:23:01

Channel 190-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 16:23:33

Channel 251-Emission Bandwidth (100% BW)



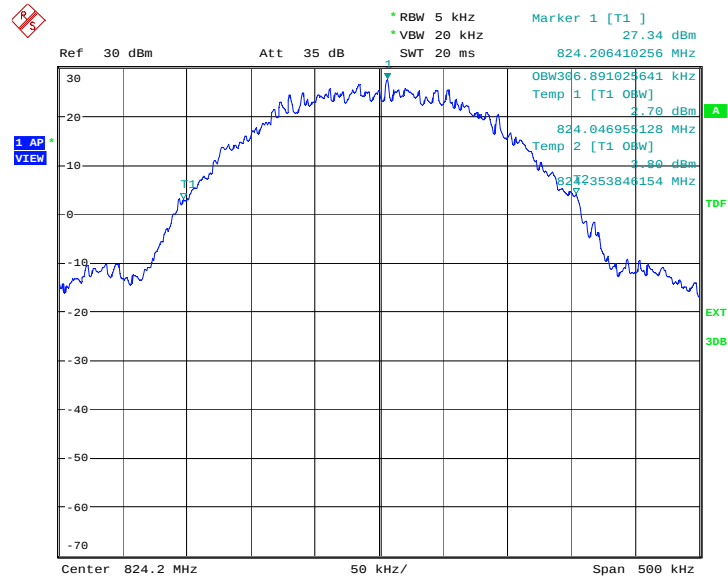
Date: 4.JAN.2015 16:24:05

EGPRS 850-GMSK(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
824.2	306.891
836.6	306.891
848.8	306.891

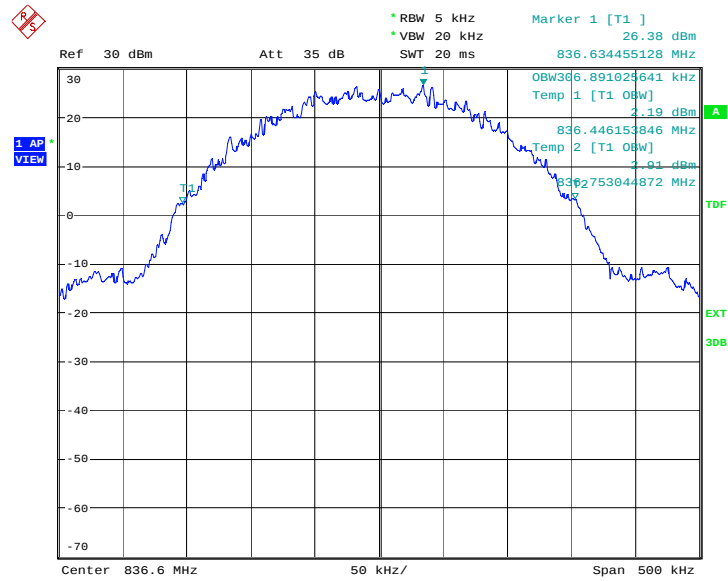
EGPRS 850-GMSK

Channel 128-Emission Bandwidth (100% BW)



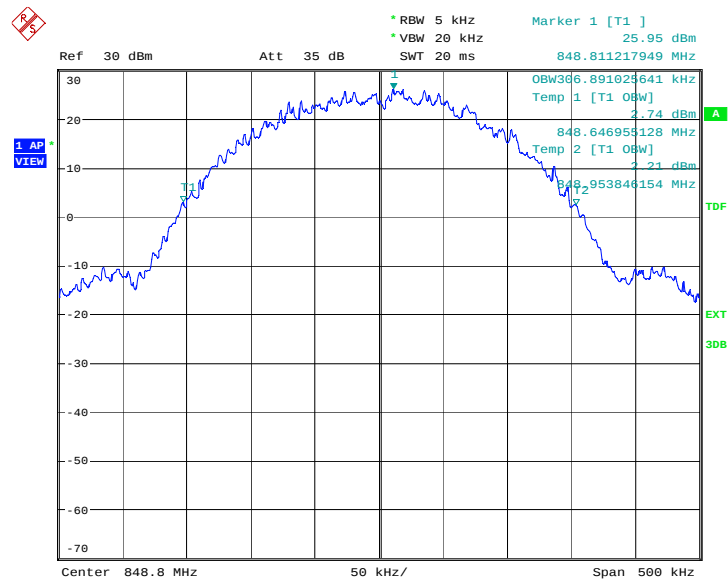
Date: 4.JAN.2015 19:05:17

Channel 190-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 19:05:50

Channel 251-Emission Bandwidth (100% BW)



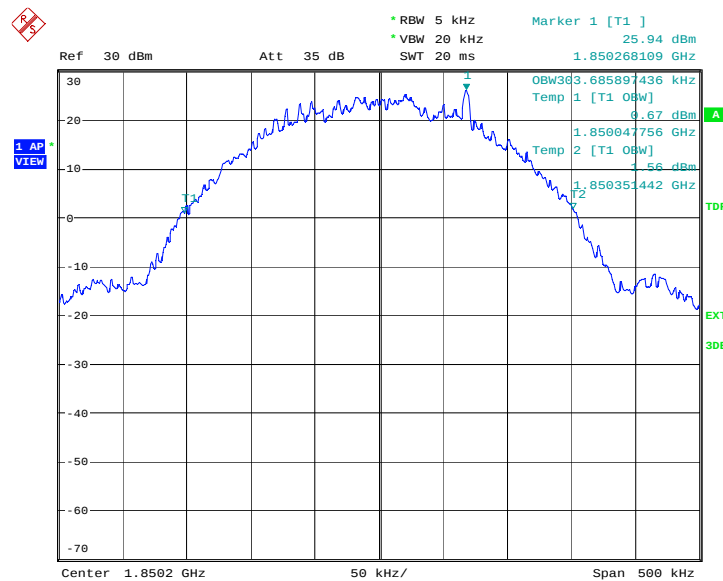
Date: 4.JAN.2015 19:06:22

PCS 1900(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
1850.2	306.891
1880.0	306.090
1909.8	306.891

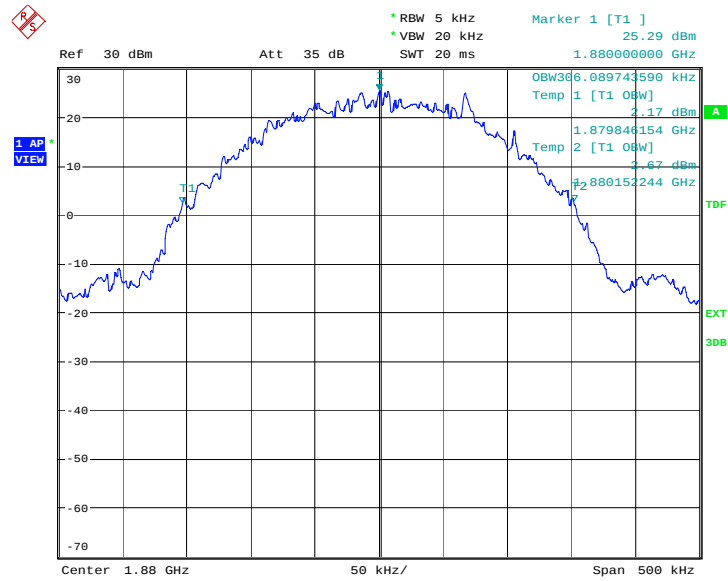
PCS 1900

Channel 512-Emission Bandwidth (100% BW)



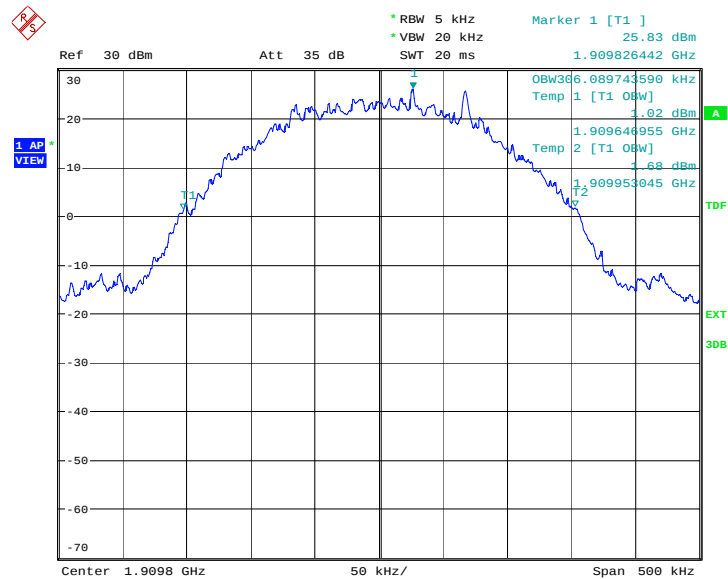
Date: 4.JAN.2015 19:43:55

Channel 661-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 19:44:27

Channel 810-Emission Bandwidth (100% BW)



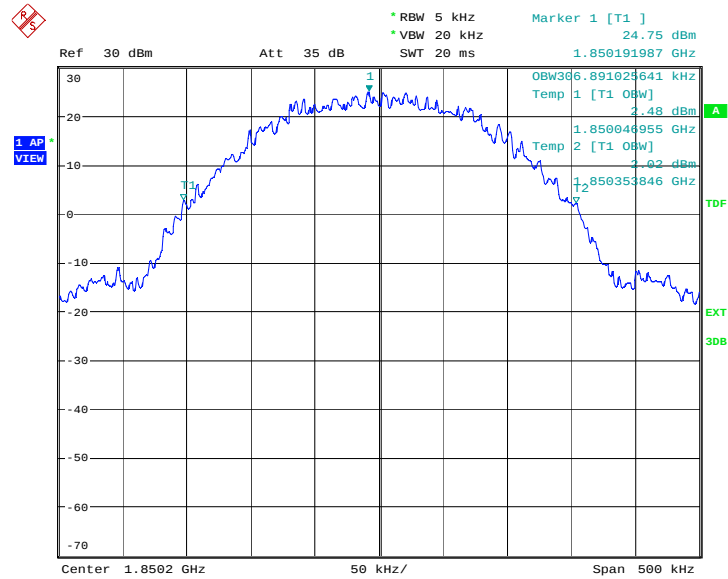
Date: 4.JAN.2015 19:44:59

GPRS 1900(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
1850.2	306.891
1880.0	308.494
1909.8	305.288

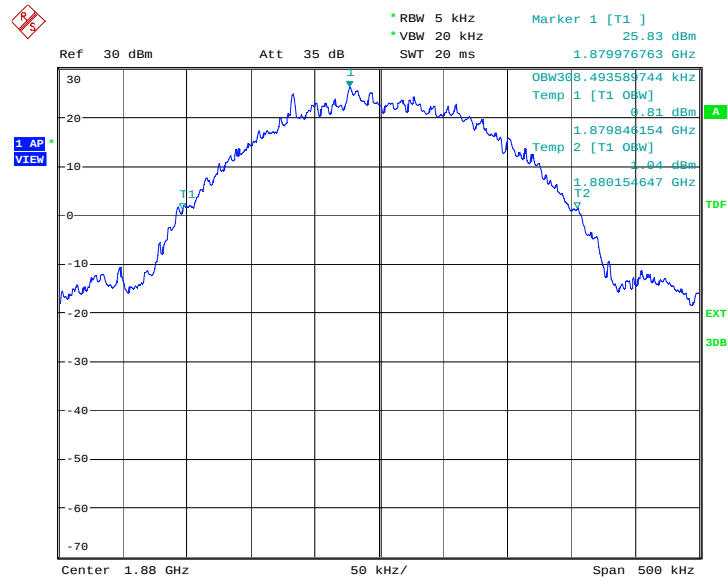
GPRS 1900

Channel 512-Emission Bandwidth (100% BW)



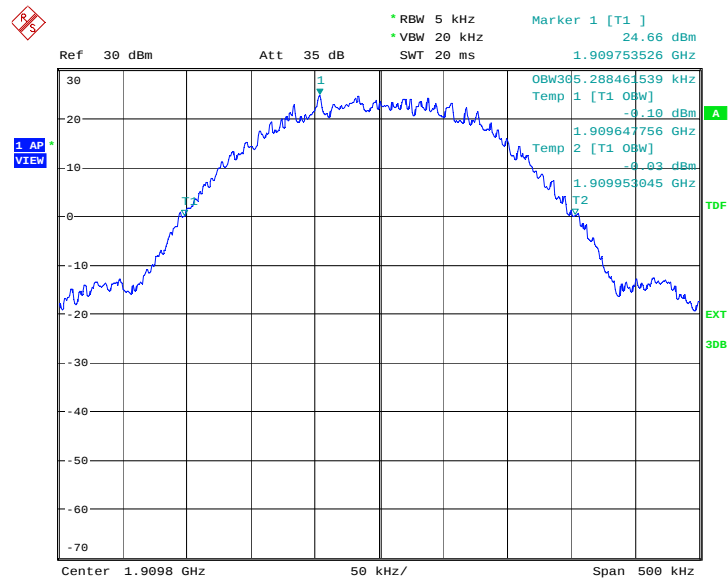
Date: 4.JAN.2015 16:34:11

Channel 661-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 16:34:43

Channel 810-Emission Bandwidth (100% BW)



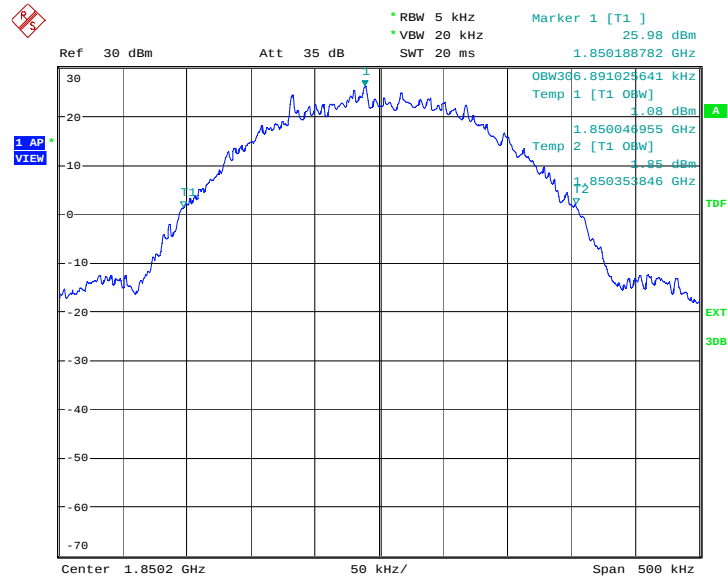
Date: 4.JAN.2015 16:35:16

EGPRS 1900-GMSK(100% BW)

Frequency(MHz)	Emission Bandwidth (100% BW)(kHz)
1850.2	306.891
1880.0	305.288
1909.8	307.692

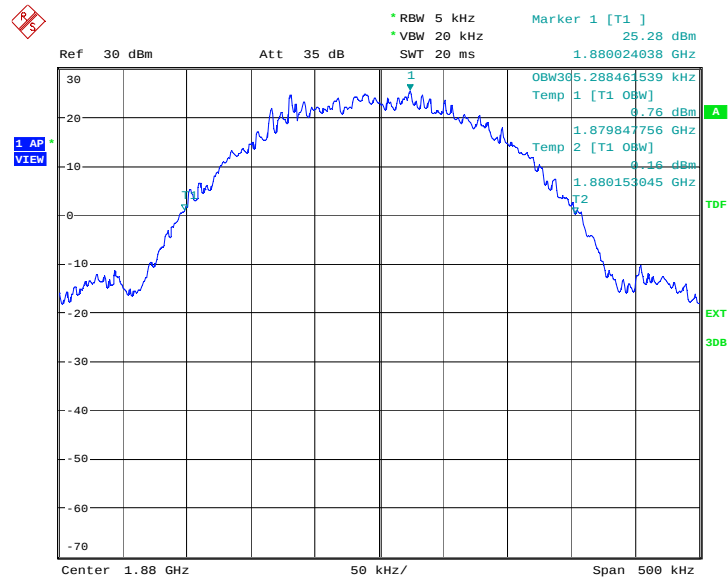
EGPRS 1900-GMSK

Channel 512-Emission Bandwidth (100% BW)



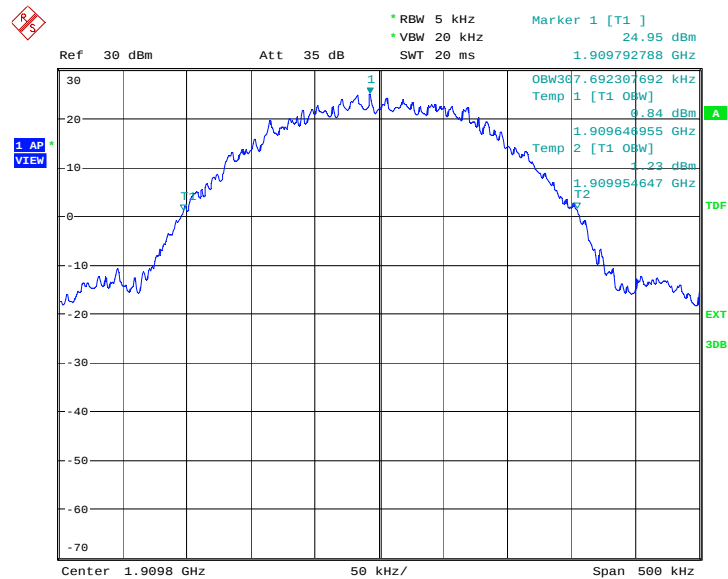
Date: 4.JAN.2015 19:16:26

Channel 661-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 19:16:58

Channel 810-Emission Bandwidth (100% BW)



Date: 4.JAN.2015 19:17:30

A.6 BAND EDGE COMPLIANCE

Reference

FCC: CFR Part 22.917(b), 24.238(a)

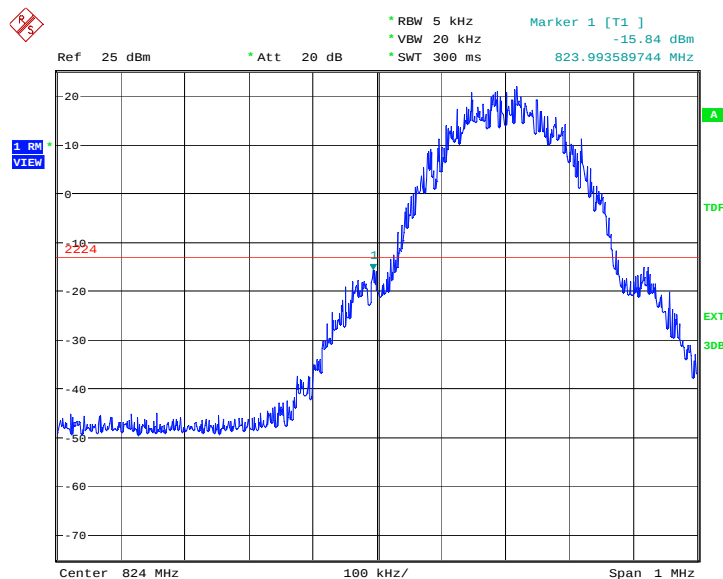
Measurement limit

On any frequency outside frequency band of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

According to KDB 971168 v02r01 6.0, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

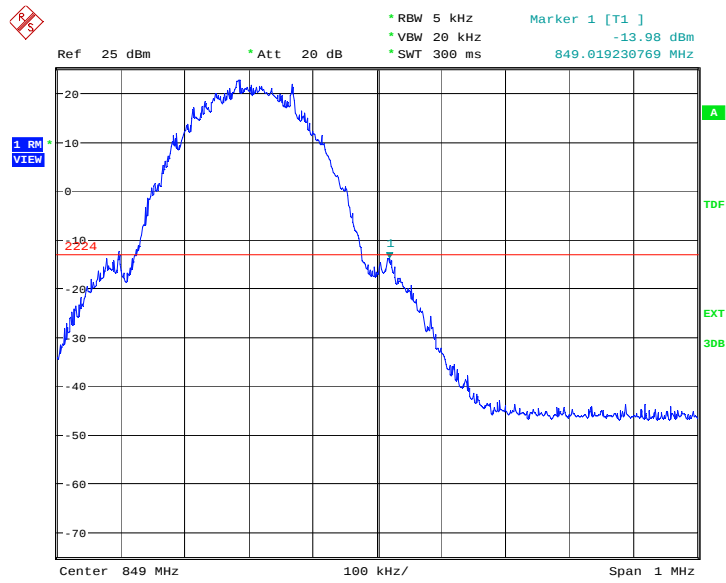
GSM 850

LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



Date: 4.JAN.2015 19:26:46

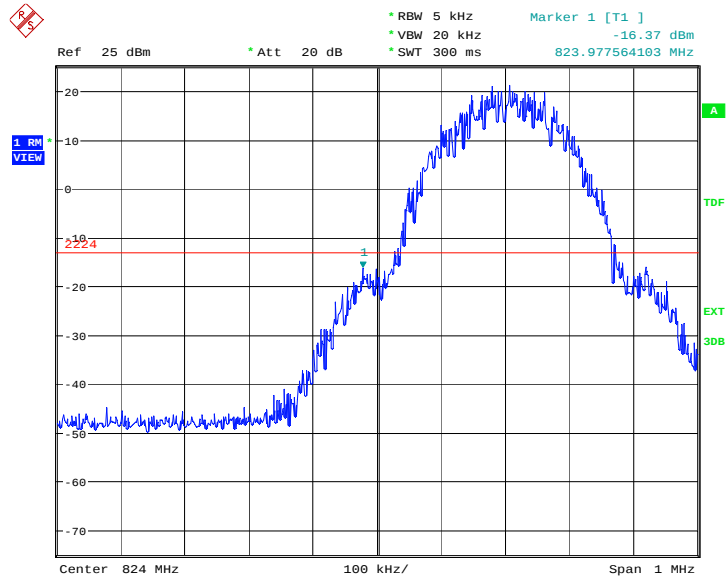
HIGH BAND EDGE BLOCK-C (GSM850) –Channel 251



Date: 4.JAN.2015 19:28:49

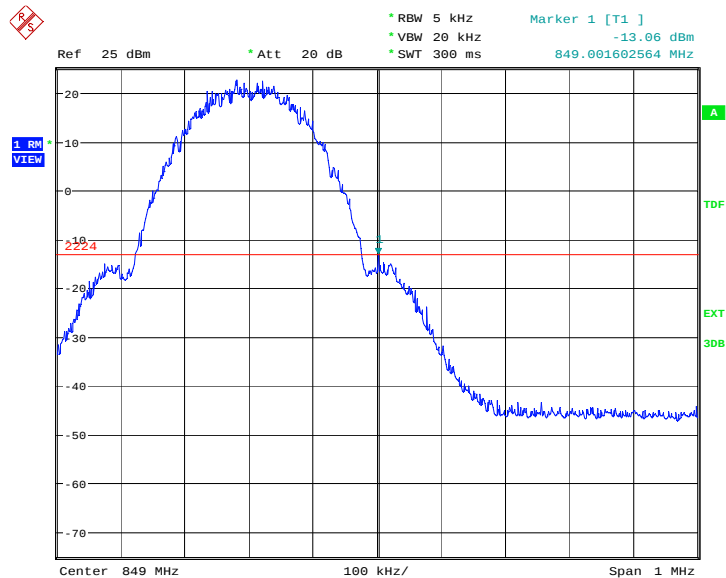
GPRS 850

LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



Date: 4.JAN.2015 16:24:14

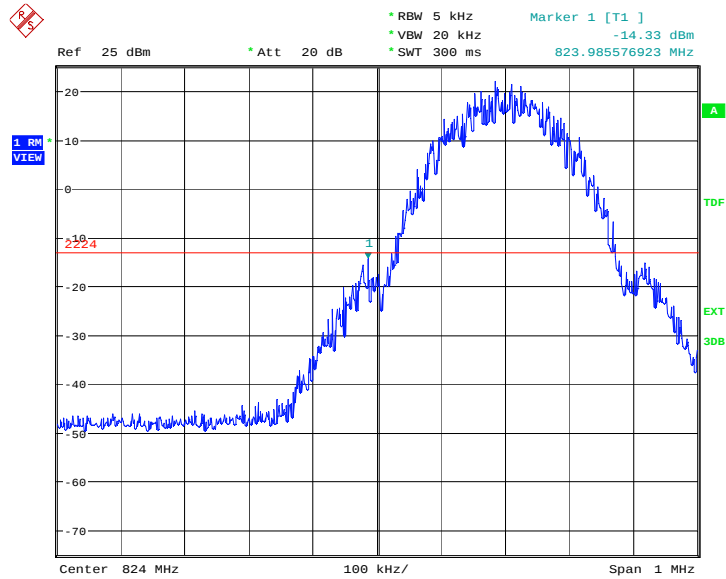
HIGH BAND EDGE BLOCK-C (GSM850) –Channel 251



Date: 4.JAN.2015 16:26:18

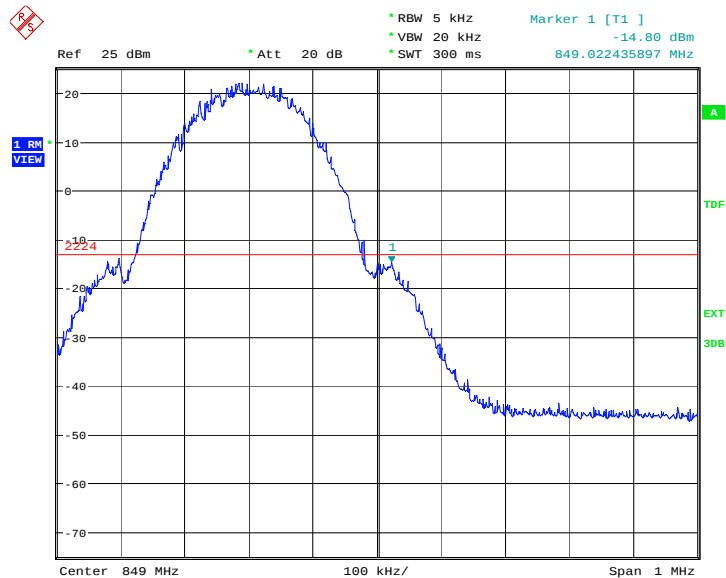
EGPRS 850-GMSK

LOW BAND EDGE BLOCK-A (GSM850)-Channel 128



Date: 4.JAN.2015 19:06:31

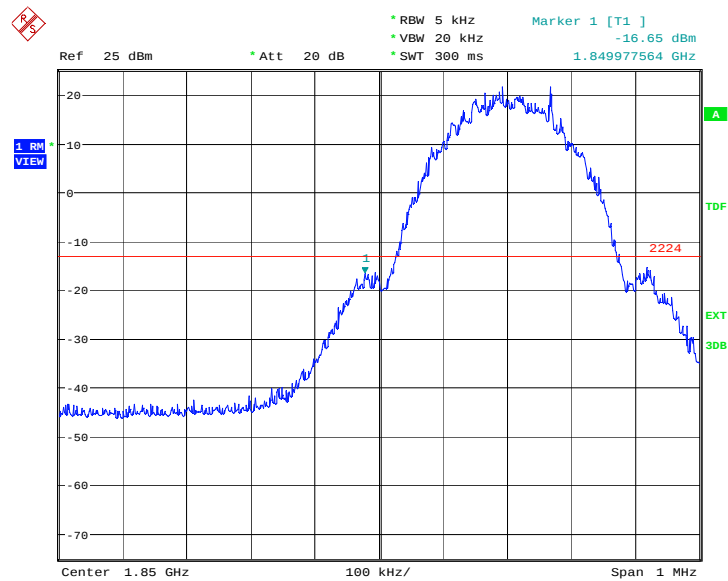
HIGH BAND EDGE BLOCK-C (GSM850) –Channel 251



Date: 4.JAN.2015 19:08:34

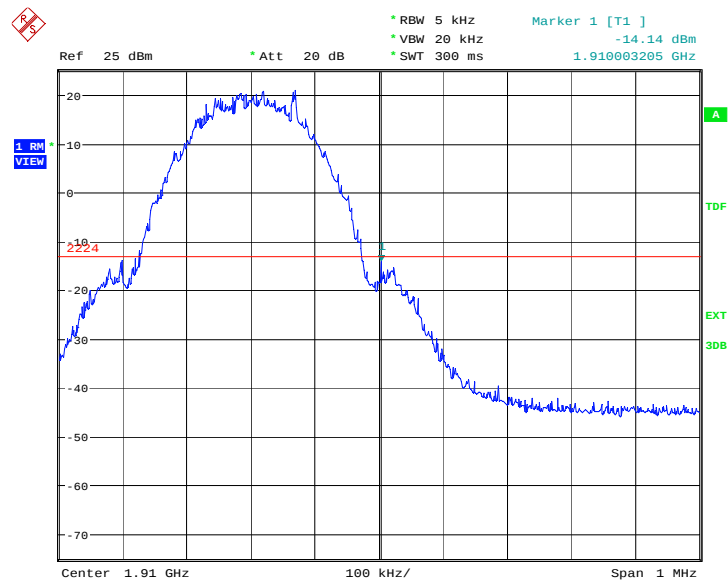
PCS 1900

LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



Date: 4.JAN.2015 22:24:14

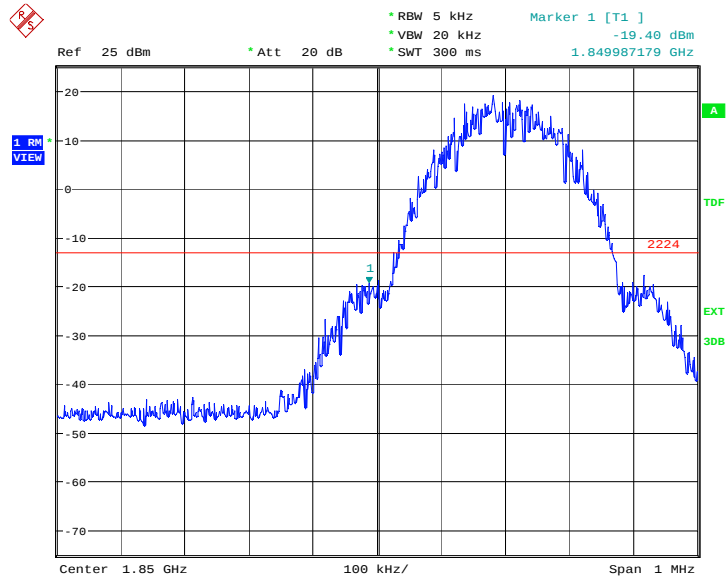
HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



Date: 4.JAN.2015 19:47:12

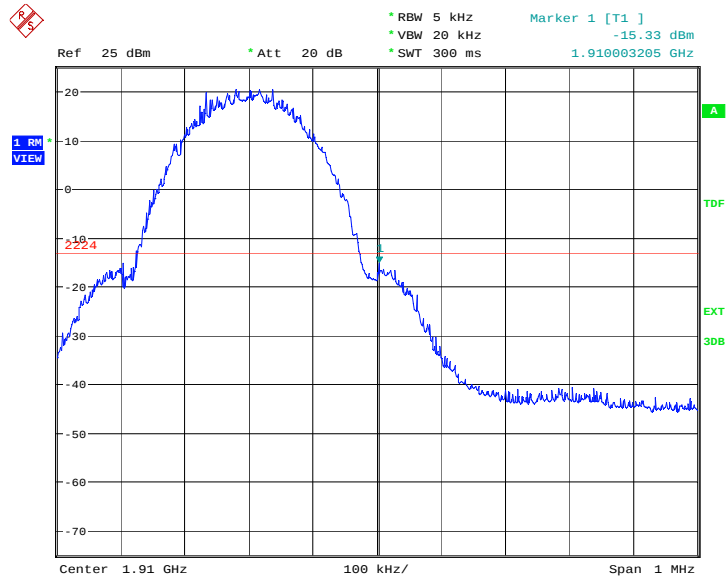
GPRS 1900

LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



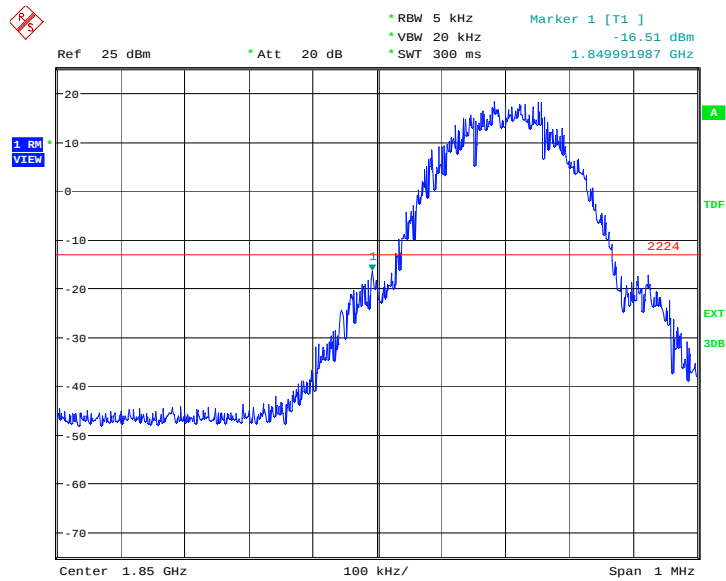
Date: 4.JAN.2015 16:35:25

HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



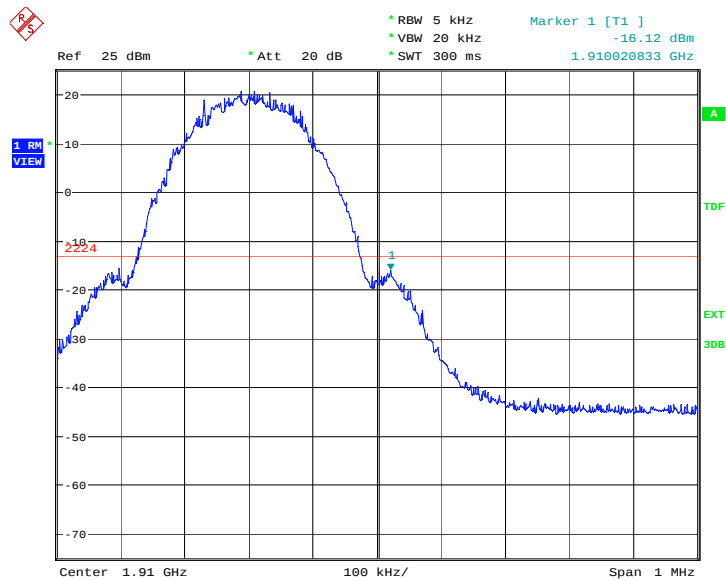
Date: 4.JAN.2015 16:37:28

EGPRS 1900-GMSK LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



Date: 4.JAN.2015 19:17:39

HIGH BAND EDGE BLOCK-C (PCS-1900) -Channel 810



Date: 4.JAN.2015 19:19:43

A.7 CONDUCTED SPURIOUS EMISSION

Reference

FCC: CFR Part 2.1057, 22.917, 24.238.

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. According to KDB 971168 v02r01 6.0, the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz)
- 4.

GSM850 Transmitter

Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

PCS1900 Transmitter

Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

A. 7.2 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

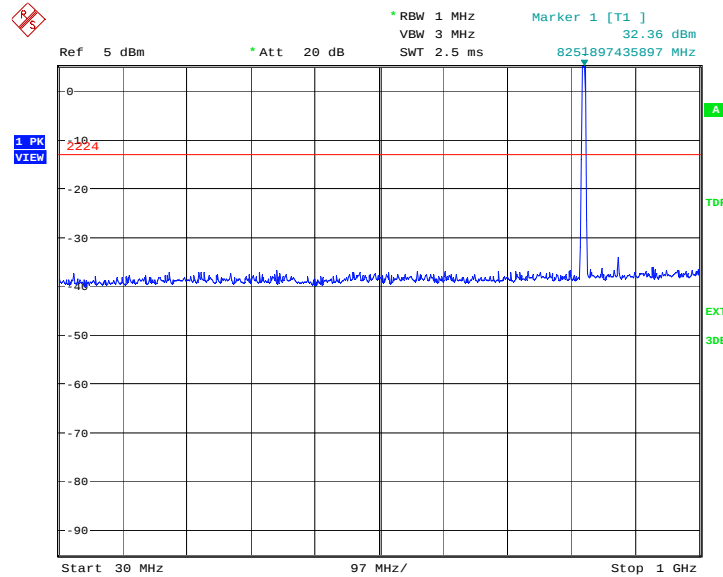
A. 7.3 Measurement result

GSM850

Channel 128: 30MHz – 1GHz

Spurious emission limit –13dBm.

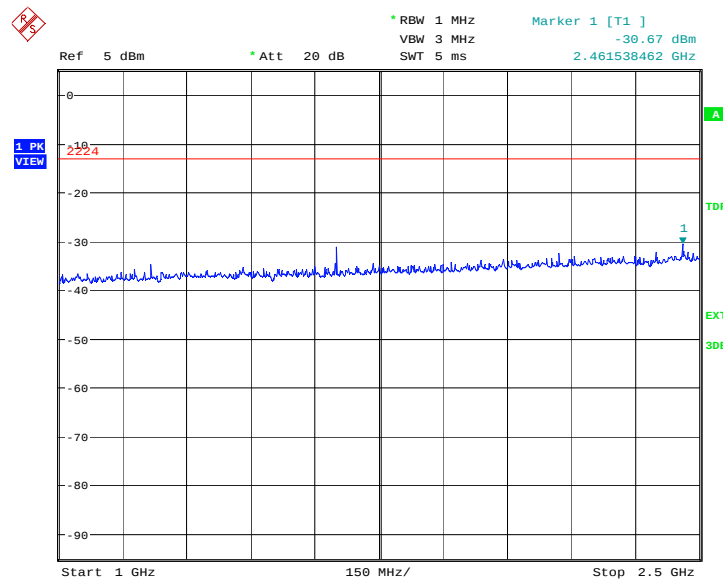
NOTE: peak above the limit line is the carrier frequency.



Date: 4.JAN.2015 19:31:16

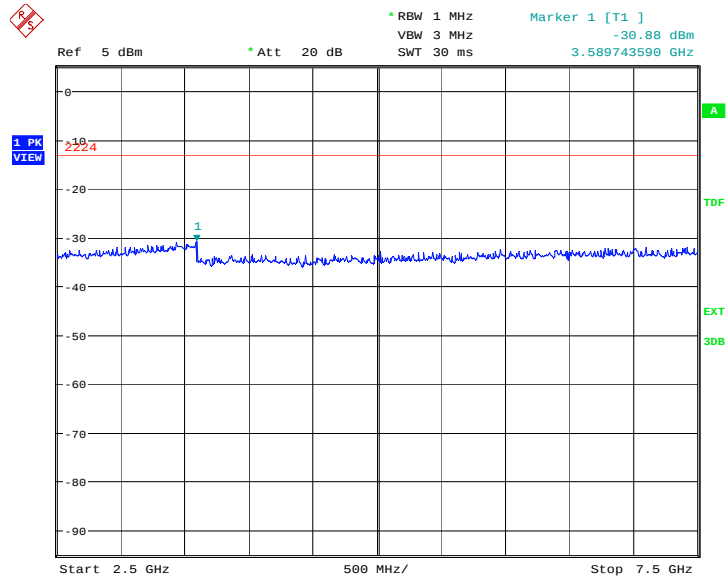
Channel 128: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



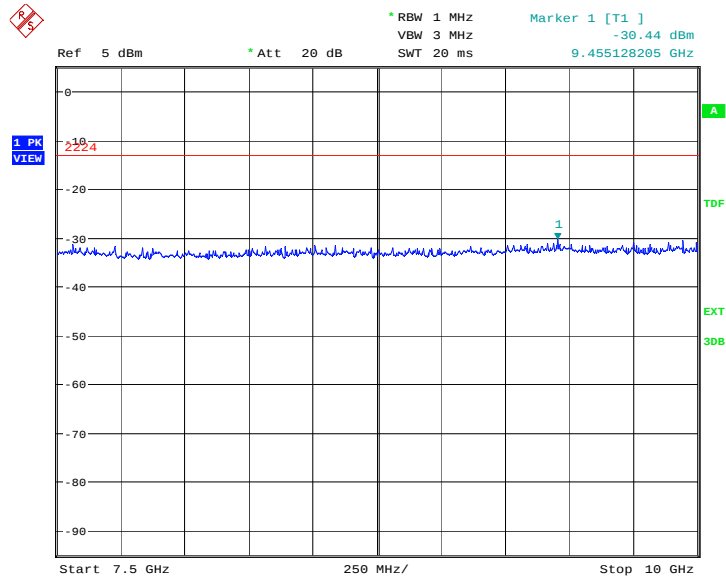
Date: 4.JAN.2015 19:31:44

Channel 128: 2.5GHz – 7.5GHz
Spurious emission limit –13dBm.



Date: 4.JAN.2015 19:32:12

Channel 128: 7.5GHz –10GHz
Spurious emission limit –13dBm.

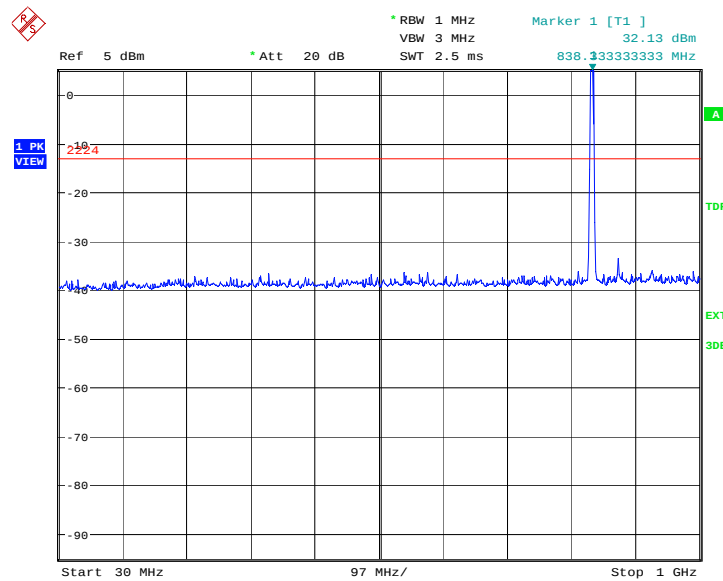


Date: 4.JAN.2015 19:32:40

Channel 190: 30MHz – 1GHz

Spurious emission limit –13dBm

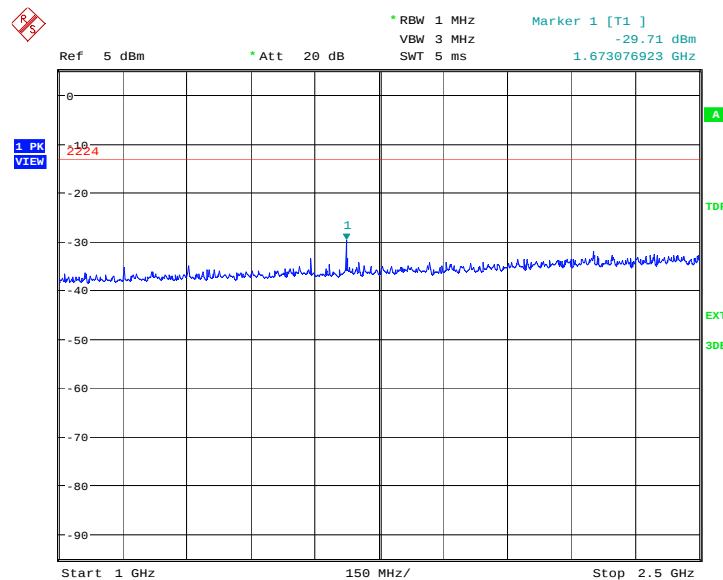
NOTE: peak above the limit line is the carrier frequency.



Date: 4.JAN.2015 19:33:09

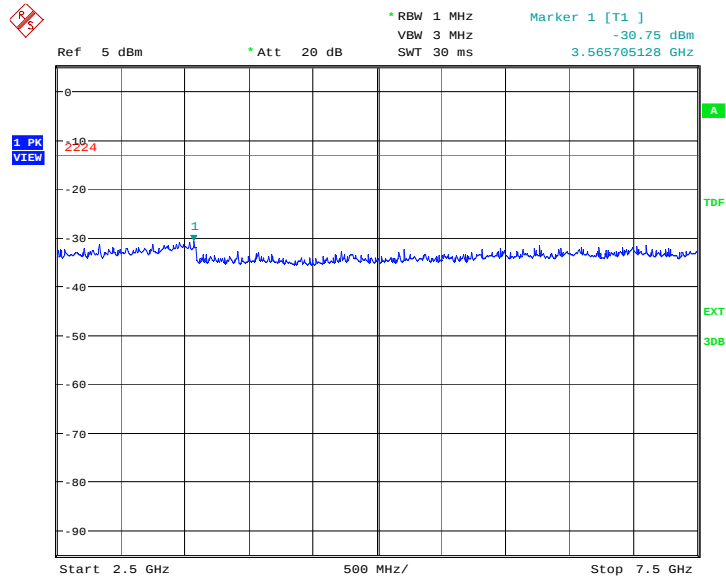
Channel 190: 1GHz –2.5GHz

Spurious emission limit –13dBm



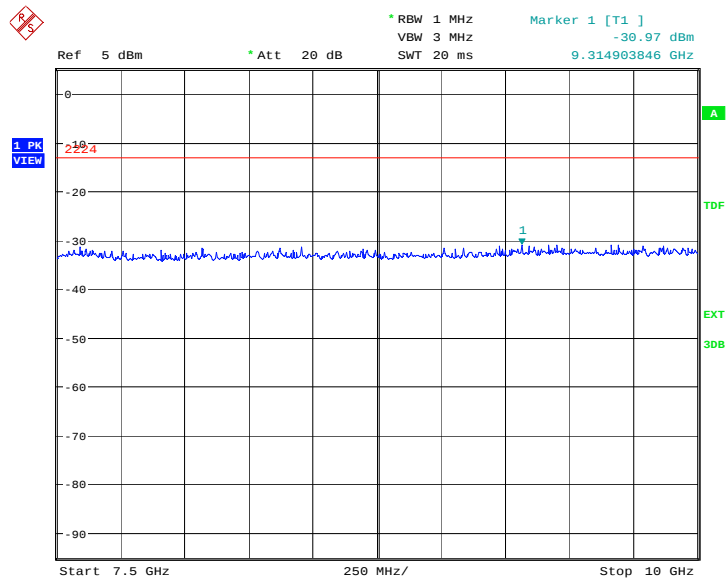
Date: 4.JAN.2015 19:33:37

Channel 190: 2.5GHz –7.5GHz
Spurious emission limit –13dBm



Date: 4.JAN.2015 19:34:05

Channel 190: 7.5GHz –10GHz
Spurious emission limit –13dBm

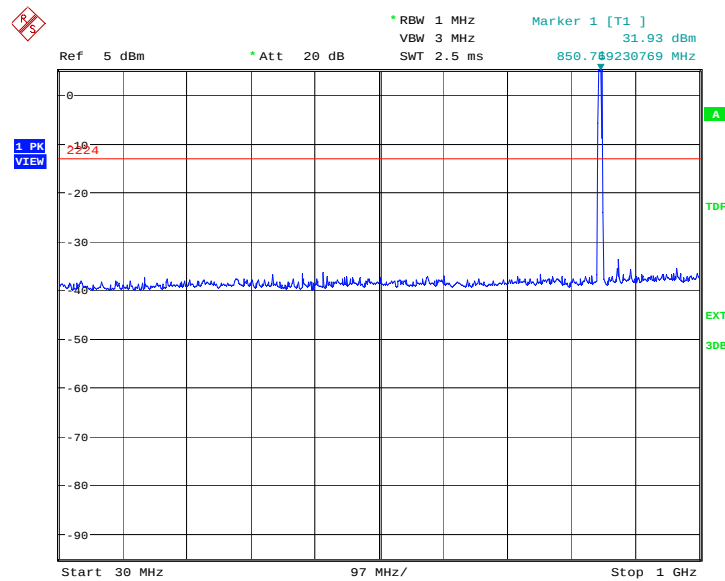


Date: 4.JAN.2015 19:34:33

Channel 251: 30MHz – 1GHz

Spurious emission limit –13dBm.

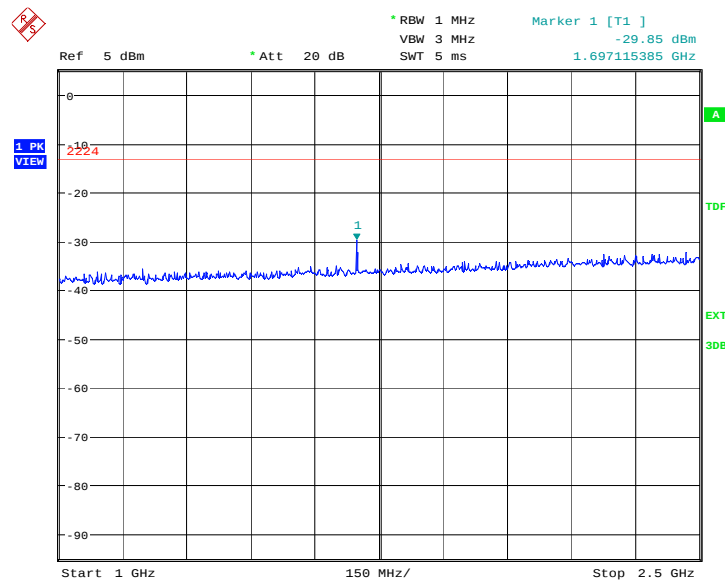
NOTE: peak above the limit line is the carrier frequency.



Date: 4.JAN.2015 19:35:02

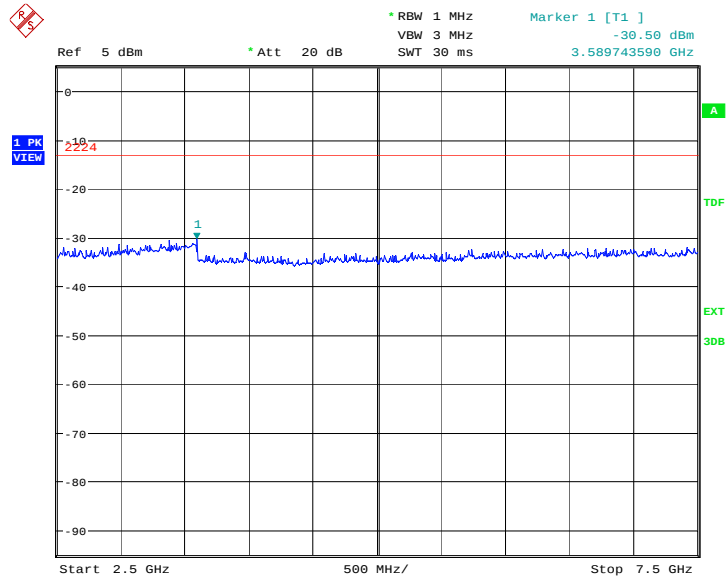
Channel 251: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



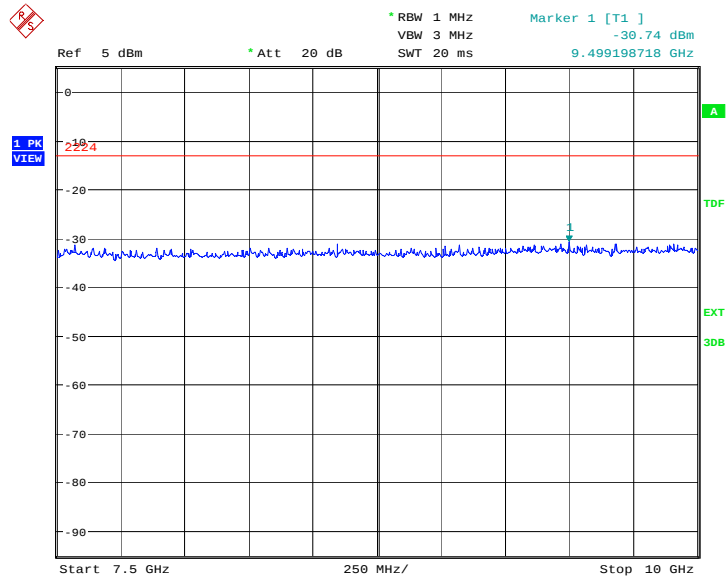
Date: 4.JAN.2015 19:35:30

Channel 251: 2.5GHz – 7.5GHz
Spurious emission limit –13dBm.



Date: 4.JAN.2015 19:35:58

Channel 251: 7.5GHz – 10GHz
Spurious emission limit –13dBm.

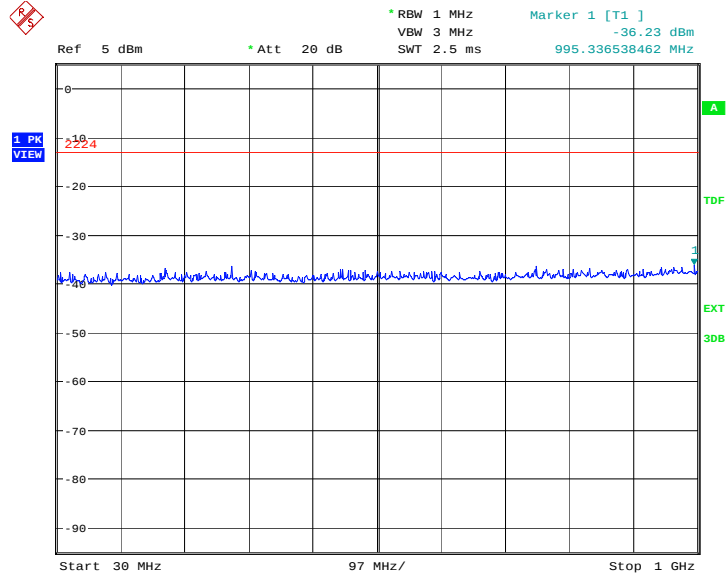


Date: 4.JAN.2015 19:36:26

PCS1900

Channel 512: 30MHz – 1GHz

Spurious emission limit –13dBm.

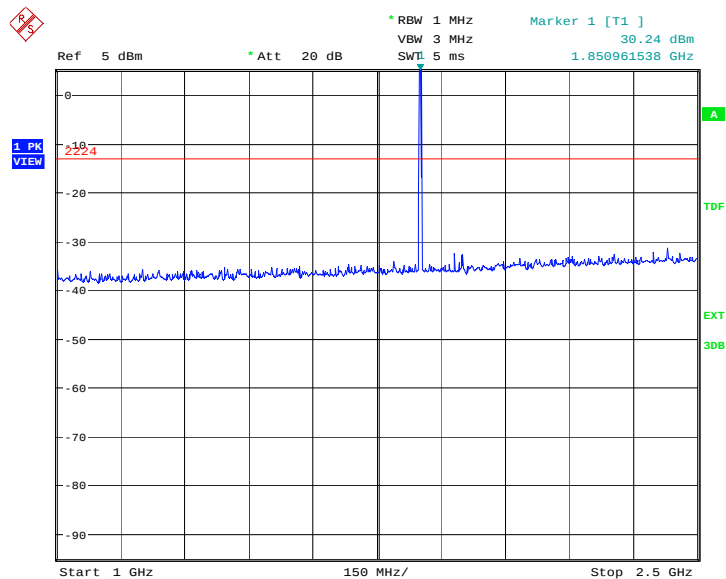


Date: 4.JAN.2015 19:49:38

Channel 512: 1GHz – 2.5GHz

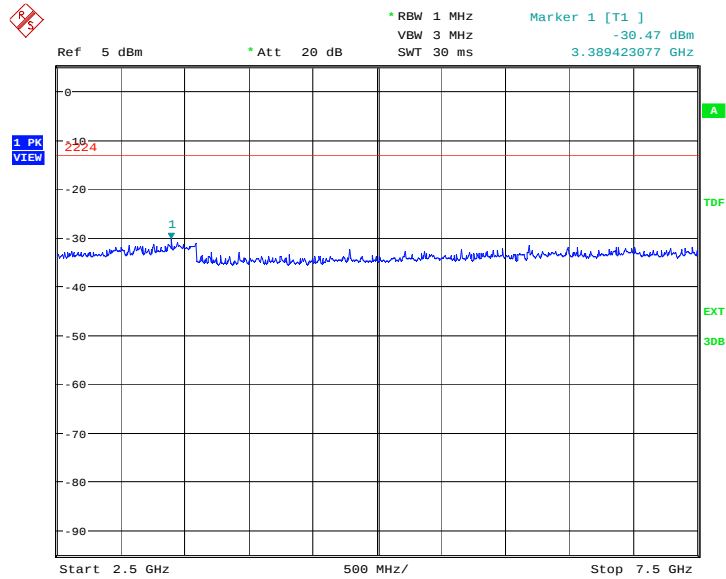
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



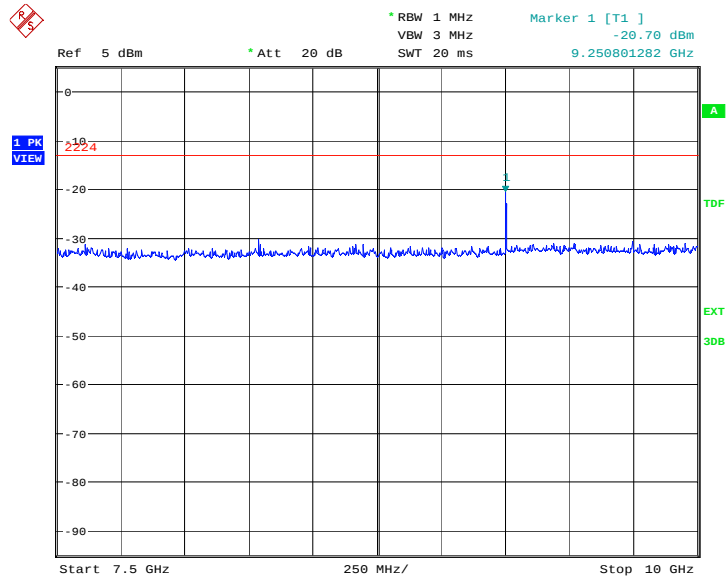
Date: 4.JAN.2015 19:50:06

Channel 512: 2.5GHz – 7.5GHz
Spurious emission limit –13dBm.



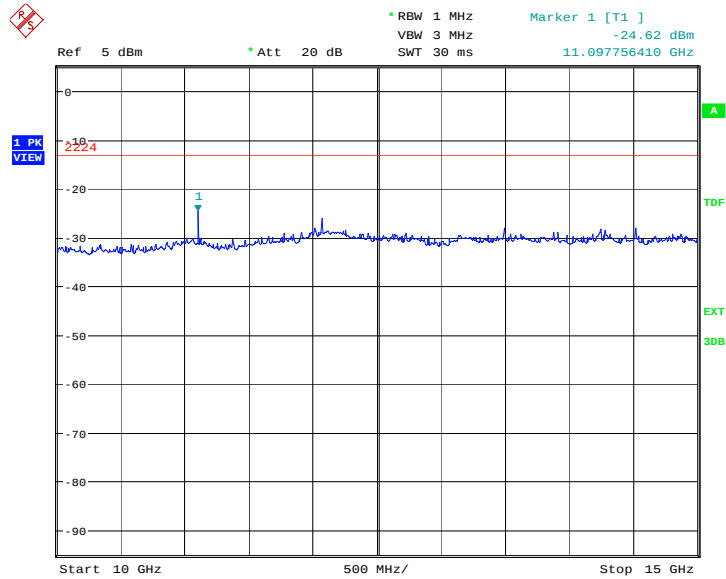
Date: 4.JAN.2015 19:50:34

Channel 512: 7.5GHz –10GHz
Spurious emission limit –13dBm.



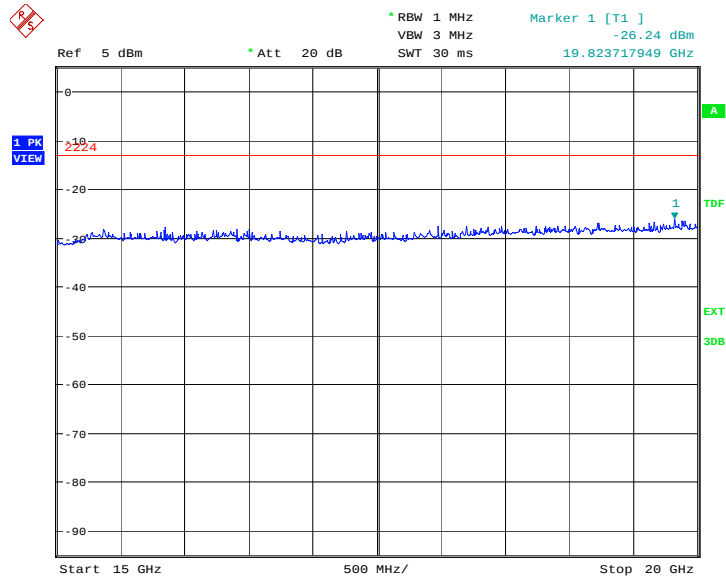
Date: 4.JAN.2015 19:51:02

Channel 512: 10GHz –15GHz
Spurious emission limit –13dBm.



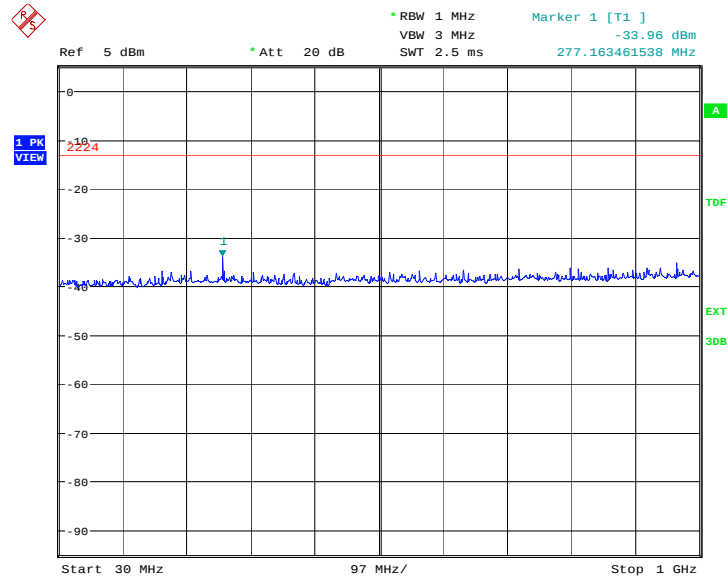
Date: 4.JAN.2015 19:51:31

Channel 512: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 4.JAN.2015 19:51:59

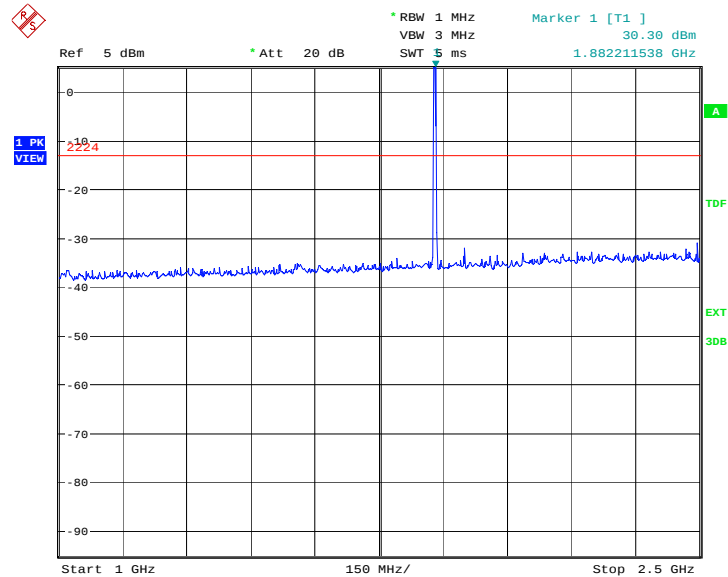
Channel 661: 30MHz – 1GHz
Spurious emission limit –13dBm



Date: 4.JAN.2015 19:52:27

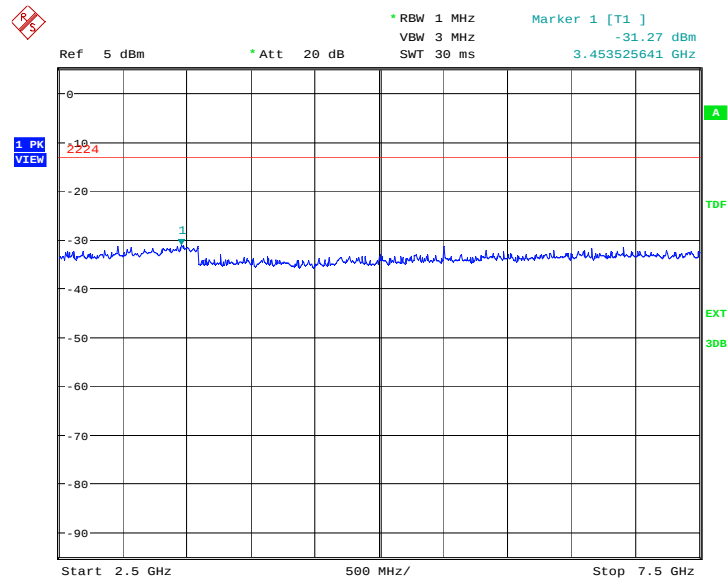
Channel 661: 1GHz –2.5GHz
Spurious emission limit –13dBm

NOTE: peak above the limit line is the carrier frequency.



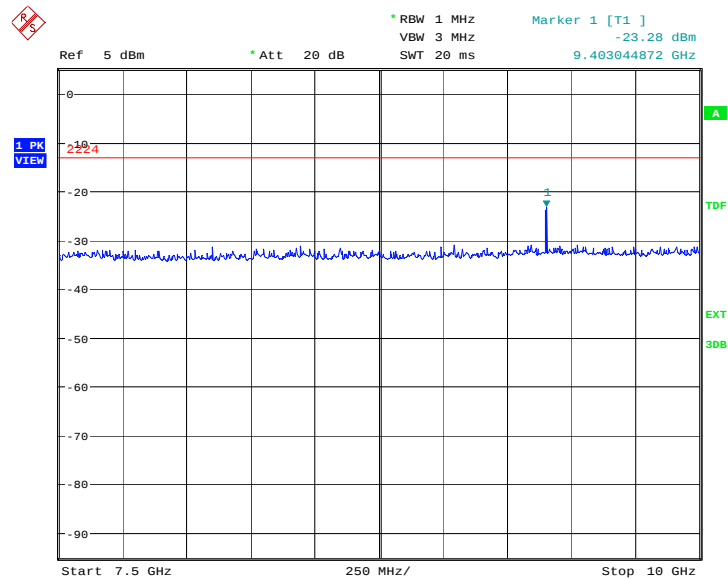
Date: 4.JAN.2015 19:52:55

Channel 661: 2.5GHz –7.5GHz
Spurious emission limit –13dBm



Date: 4.JAN.2015 19:53:24

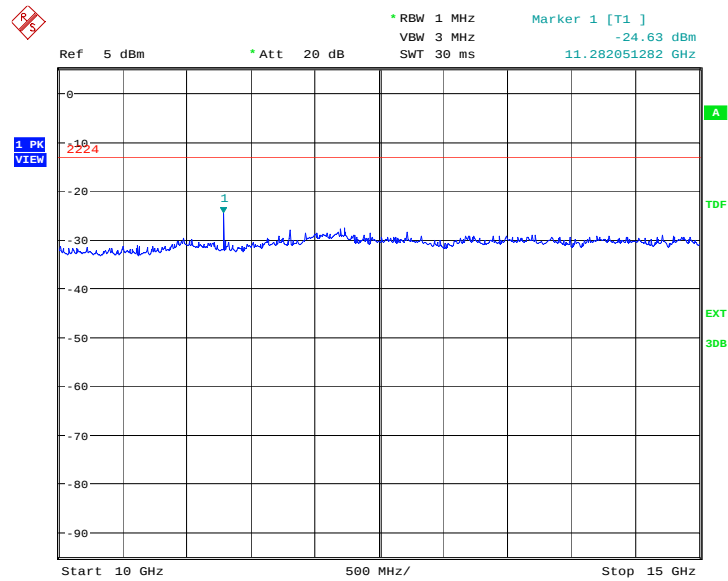
Channel 661: 7.5GHz –10GHz
Spurious emission limit –13dBm



Date: 4.JAN.2015 19:53:52

Channel 661: 10GHz –15GHz

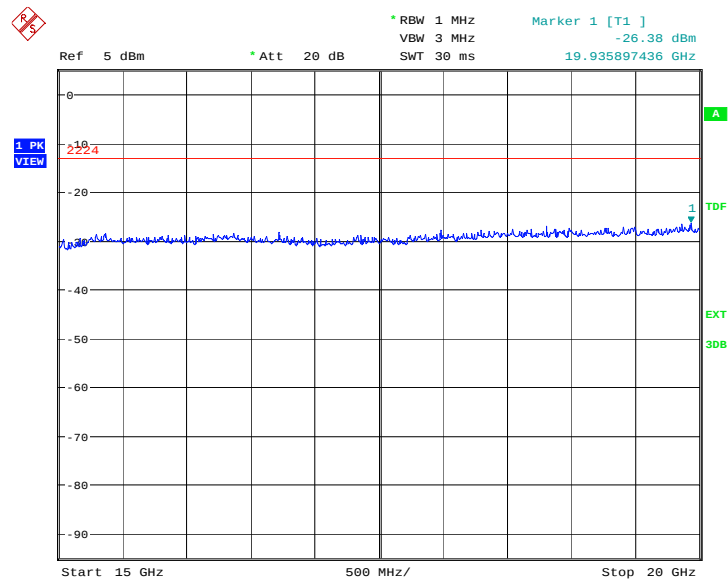
Spurious emission limit –13dBm.



Date: 4. JAN. 2015 19:54:20

Channel 661: 15GHz –20GHz

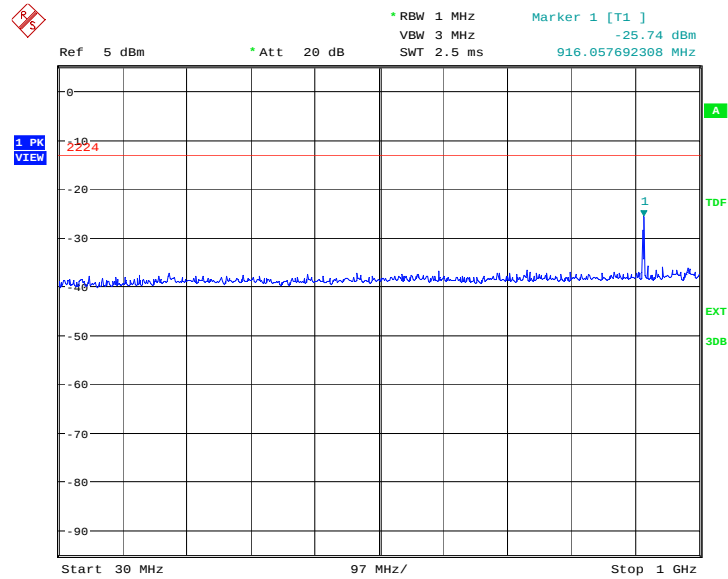
Spurious emission limit –13dBm.



Date: 4. JAN. 2015 19:54:48

Channel 810: 30MHz – 1GHz

Spurious emission limit –13dBm.

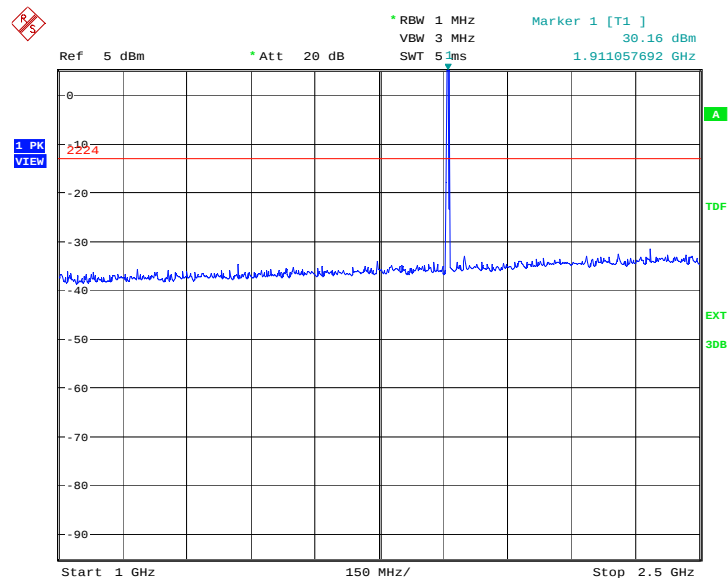


Date: 4.JAN.2015 19:55:17

Channel 810: 1GHz – 2.5GHz

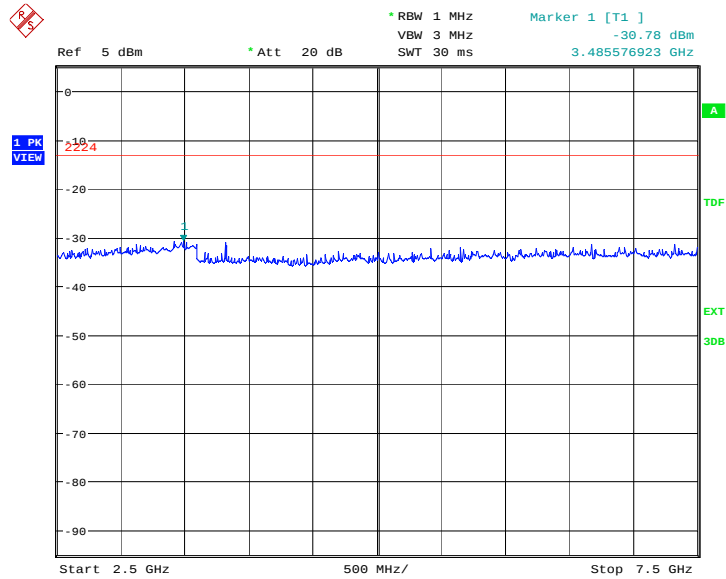
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



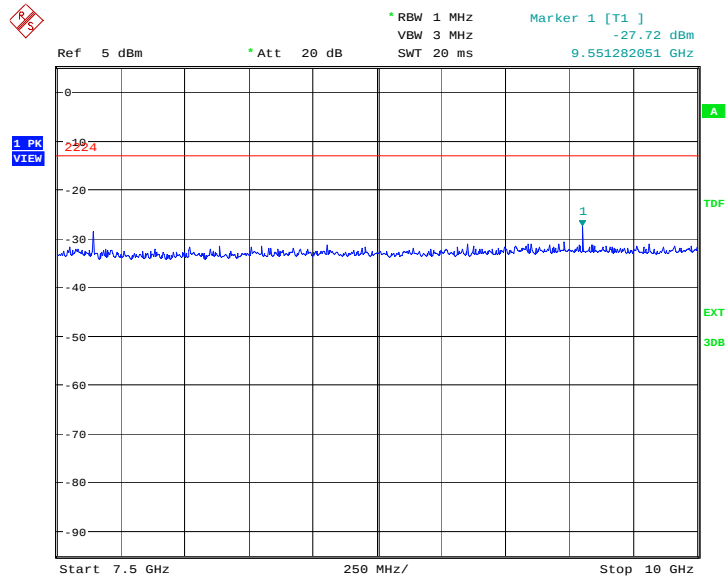
Date: 4.JAN.2015 19:55:45

Channel 810: 2.5GHz – 7.5GHz
Spurious emission limit –13dBm.



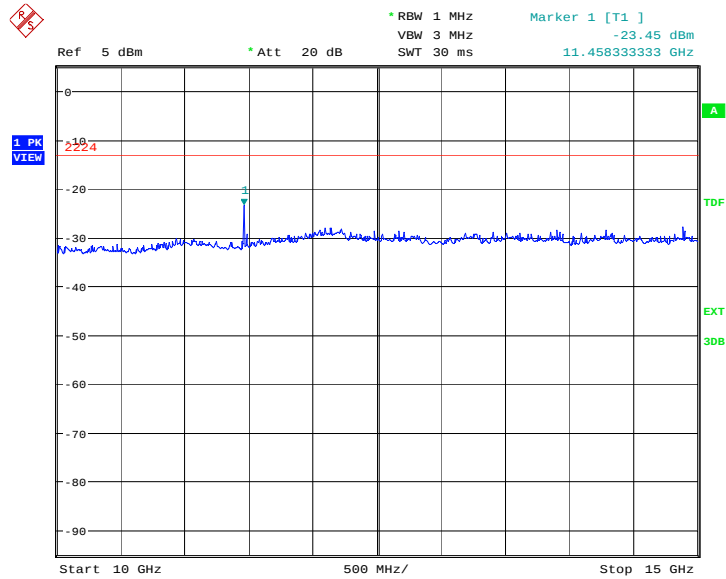
Date: 4.JAN.2015 19:56:13

Channel 810: 7.5GHz – 10GHz
Spurious emission limit –13dBm.



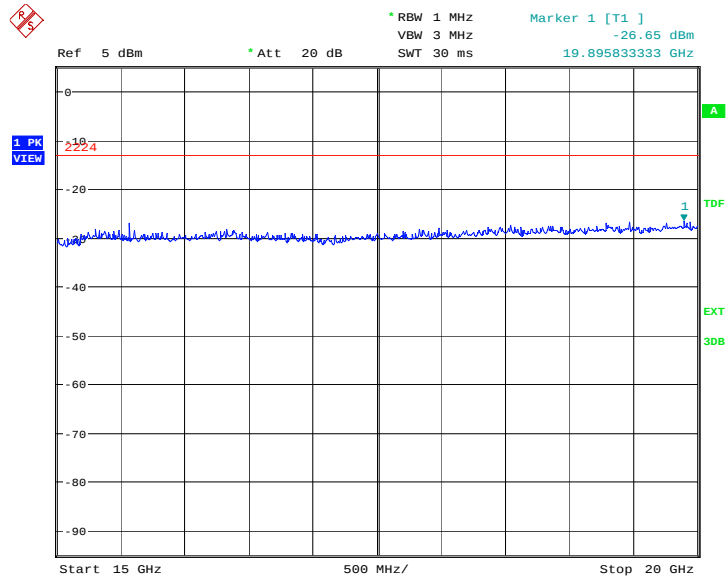
Date: 4.JAN.2015 19:56:42

Channel 810: 10GHz –15GHz
Spurious emission limit –13dBm.



Date: 4.JAN.2015 19:57:10

Channel 810: 15GHz –20GHz
Spurious emission limit –13dBm.



Date: 4.JAN.2015 19:57:38

END OF REPORT