

FCC PART 22/24 TEST REPORT

for

@ pod GSM/WiFi Dual-mode IP Multimedia Phone

Model No.: E900

of

Applicant: Y5World International Co., Ltd.
Address: 2F., No.2, Lane 15, Sec. 6, Mincyuan E. Rd., Neihu District,
Taipei City 114 Taiwan

Tested and Prepared
by



ETS Product Service (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679

A2LA Accredited No.: 2300.01

PTCRB Accredited Type Certification Test House

FCC ID: VKQ-APOD-E900

Report No.: W6D20707-8368-P-22/24

Report Number: W6D20707-8368-P-22/24

FCC ID: VKQ-APOD-E900

Certification of Test Report

Applicant : Y5World International Co., Ltd.

Manufacturer : BCM Computers Co., Ltd

Tested Equipment :

Type Description	: @ pod GSM/WiFi Dual-mode IP Multimedia Phone
Model Number	: E900
Series Number	: N/A
Brand Name	: Y5World
Operation Frequency	: 824.024-848.735MHz ; 1850.301-1909.820MHz
RF Output Power	: 32.98dBm
Power Supply	: input 100-240 VAC, 50-60Hz 0.15A output 5.0VDC 1.0A 3.7 VDC 1500mAh (battery)

Regulation Applied : 47CFR Part 22 (2005-10) and Part 24 (2005-10)

Test Method : 47CFR Part 2 (2005), TIA/EIA-603B (2002) and ANSI
C63.4(2003)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2005) and TIA-603-B(2002), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22 and Part 24.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of ETS Product Service (Taiwan).
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

August 13, 2007

Jay Chaing



Date

ETS-Lab.

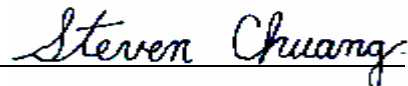
Name

Signature

Technical responsibility for area of testing:

August 13, 2007

Steven Chuang



Date

ETS

Name

Signature

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1. Summary

1.1 Description of tested equipment

The equipment tested is a dual-band cellular phone with built-in WLAN transceivers. The operation frequency bands and rated RF output power are listed as follows:

824.024-848.735 MHz (Cellular, Part 22), 1.9W (ERP)
1850.301-1909.820 MHz (Cellular, Part 24), 1W (EIRP)
2412-2462 MHz (WLAN 802.11b+g, Part15C), 0.1W

This test report only contains test requirements specified in 47CFR Part 22 and Part 24 for Cellular Phone function, for WLAN functions, please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Test sample received: July 11, 2007

Test finished: August 02, 2007

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard : FCC Part 2(2005), TIA-603-B (2002), ANSI C63.4(2003)

Deviation from test standard: None

Special statement: This device, E900, is based on the test report number W6M20707-8291-P-22/24. The differences between them are the approval holder, brand name and model number.

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1.5 Summary of test result

Band: 850MHz

Section in this Report	Test Item	Relevant Section	Verdict
3.2	RF power output	2.1046(a), 22.913(a)	Pass
4.2	Modulation characteristics	2.1047	N/A
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	22.917(a), 2.1051	Pass
7.2	Field strength of spurious radiation	22.917(a), 2.1053	Pass
8.2	Frequency stability	2.1055(a), 2.1055(d)	Pass

Band: 1900MHz

Section in this Report	Test Item	Relevant Section	Verdict
3.2	RF power output	2.1046(a), 24.232(b)	Pass
4.2	Modulation characteristics	2.1047	N/A
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	24.238(a), 2.1051	Pass
7.2	Field strength of spurious radiation	24.238(a), 2.1053	Pass
8.2	Frequency stability	2.1055(a), 2.1055(d)	Pass

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2. General Information

2.1 Testing laboratory

2.1.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)

Company
ETS Product Service (Taiwan) Co., Ltd..
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

2.1.2 Details of accreditation status

Accredited testing laboratory
A2LA accredited number: 2300.01
FCC filed test laboratory Reg. No. 930600
Industry Canada filed test laboratory Reg. No. IC 5679
PTCRB Accredited Type Certification Test House

2.2 Details of approval holder

Name	: Y5World International Co., Ltd.
Street	: 2F ., No.2, Lane 15, Sec. 6, Mincyuan E. Rd., Neihu District,
Town	: Taipei City 114
Country	: Taiwan
Telephone	: 886-2-8791-9186
Fax	: 886-2-8791-7186

Manufacturer: (if applicable)

Name	: BCM Computers Co.,Ltd
Street	: 2F-5-6, No.66, Sec. 2, Nan-Kan Rd., Lu-Chu Hsiang,
Town	: Taoyuan Hsien, 338
Country	: Taiwan R.O.C.

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2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
N/A					

Frequency Range:

Band: 850MHz

Band: 1900MHz

Frequencies Selected to be investigated:

Band: 850MHz

Low Frequency (ch 128) : 824.204 MHz

Mid Frequency (ch 188) : 836.268 MHz

High Frequency (ch 251) : 848.870 MHz

Band: 1900MHz

Low Frequency (ch 512) : 1850.2 MHz

Mid Frequency (ch 661) : 1880.072 MHz

High Frequency (ch 810) : 1909.831 MHz

Antenna Type : Embedded Antenna

Antenna Gain GSM : 0.23 dBi

Antenna Gain WiFi : 2.76 dBi

Power supply adaptor
Input : 100-240V 50/60Hz 0.15A
Output : 5.0V 1.0A

Power supply battery : 3.7 VDC 1500mAh

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2.4 Test environment

Temperature : 27 °C
Relative humidity content : 54 %
Air pressure : 86-103 Kpa

2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, an exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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2.6 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2006/10/16	2007/10/15
ETSTW-CE 002	PREREULATOR MODE DC POWER SUPPLY	None	None		Function Test	
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2006/10/16	2007/10/15
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2006/10/16	2007/10/15
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	In House Certificate	
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2005/10/24	2007/10/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2007/8/2	2008/8/1
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2005/12/8	2007/12/7
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2007/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2006/11/21	2007/11/20
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2005/10/14	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2006/10/20	2007/10/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2006/10/30	2007/10/29
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2006/10/12	2007/10/11
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2006/5/4	2008/5/3
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2004/11/8	2007/11/7
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2006/10/11	2007/10/10
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	In House Certificate	
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2006/5/26	2008/5/25
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2006/5/26	2008/5/25
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2006/5/3	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2006/10/11	2007/10/10
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2007/10/16
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2007/1/11	2009/1/10

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ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2006/5/8	2008/5/7
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2006/5/29	2008/5/28
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2008/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/2	2009/5/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2007/7/16	2008/7/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2007/7/2	2009/7/1
ETSTW-GSM 01	SIM Simulator	IT3	B2004-50106	ORGA	2007/7/20	2008/7/19
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	109439	R&S	2006/10/18	2007/10/17
ETSTW-GSM 03	Agilent 8960 Test Set 1	E5515C	GB44052675	Agilent	2006/6/26	2008/6/25
ETSTW-GSM 04	Agilent 8960 Test Set 2	E5515C	GB44052665	Agilent	2006/6/29	2008/6/28
ETSTW-GSM 05	Agilent 8960 Test Set 3	E5515C	GB44052652	Agilent	2006/7/11	2008/7/10
ETSTW-GSM 06	Agilent 8960 Test Set 4	E5515C	GB44052684	Agilent	2006/7/4	2008/4/3
ETSTW-GSM 07	Agilent 8960 Test Set 5	E5515C	GB44052658	Agilent	2006/7/12	2008/7/11
ETSTW-GSM 08	Agilent 8960 Test Set 6	E5515C	GB44052666	Agilent	2006/7/6	2008/7/5
ETSTW-GSM 09	Controller PC	Dell GX 270	700F61J	Dell	Function Test	
ETSTW-GSM 10	Anite Combiner	B4605/100	0053	Wessex / Anite	2006/9/22	2008/9/21
ETSTW-GSM 11	GSM 850,900,1800,1900 Test system	TS8950G	100039	R&S	2004/12/3	2007/12/2
ETSTW-GSM 12	Acoustical Calibrator	4231	2463874	Brüel&Kjær	2007/8/2	2008/8/1
ETSTW-GSM 13	Conditioning Amplifier	2690--0S2	2437856	Brüel&Kjær	2007/8/2	2008/8/1
ETSTW-GSM 14	Telephone Test Head	4602B	2465324	Brüel&Kjær	Function Test	
ETSTW-GSM 15	Mouth Simulator	4227	2462516	Brüel&Kjær	2007/8/2	2008/8/1
ETSTW-GSM 16	TEMP.&HUMIDITY CHAMBER	GTH-120-40-1P-U	MAA0501002	GIANT FORCE	2006/12/28	2007/12/27
ETSTW-GSM 17	ANTENNT COPLER	CMU-Z10	100988	R&S	Function Test	
ETSTW-GSM 18	AUDIO ANALYZER	UPL16	100173	R&S	2006/10/26	2007/10/25
ETSTW-GSM 23	SPLITTER	4901.19.A	None	SUHNER	Function Test	
ETSTW-GSM 24	Vibration Testing System	VS-100V	5494	Vibration	2006/12/19	2007/12/18
ETSTW-GSM 29	Microphone	4192	2458739	Brüel&Kjær	2007/8/2	2008/8/1
ETSTW-GSM 30	Ear Simulator	4195	2457416	Brüel&Kjær	2007/8/2	2008/8/1

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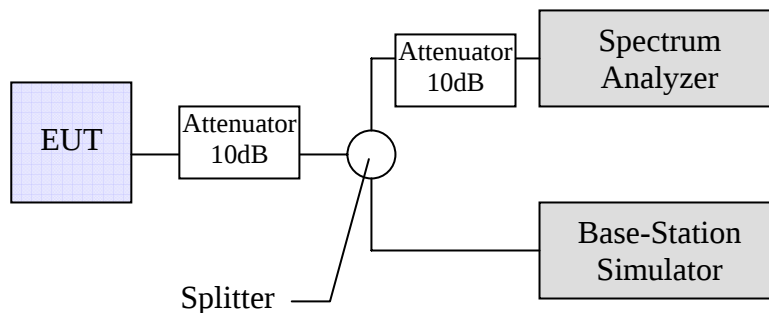
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link from simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance with the following settings:

RBW: 300kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assigning the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low, middle and high channels) and operation mode selected.

3.1.2 Radiated Method

If the conducted measurement is not practical due to the integral antenna, the radiated measurement will be performed in accordance with the following procedure:

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site.

The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

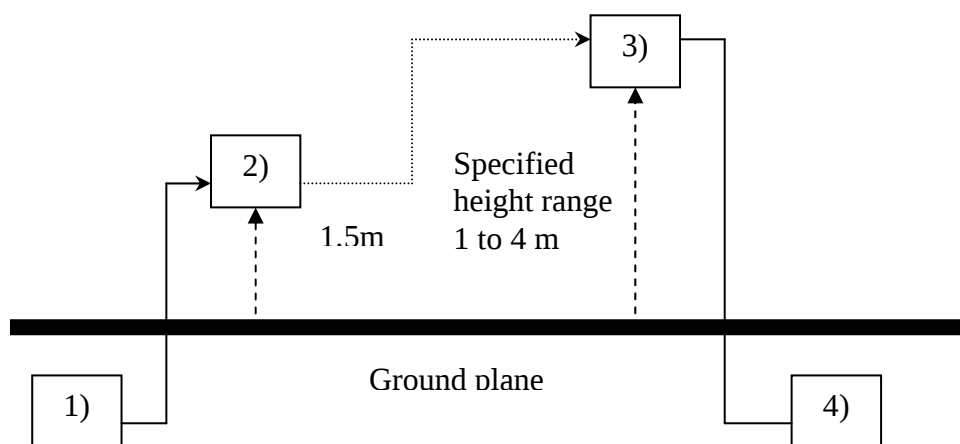
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Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at ETS Taiwan
General :

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator ;
- 2) Substitution antenna ;
- 3) Test antenna ;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration :

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in

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consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

3.2 Test Results

- ☒ Conducted Measurement
☐ Radiated Measurement

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.204	30.75	32.90	38.45	Pass
836.268	30.83	32.98	38.45	Pass
848.870	30.75	32.90	38.45	Pass
1850.2	27.85	30.00	33	Pass
1880.072	28.33	30.48	33	Pass
1909.831	28.43	30.58	33	Pass

Note: Please refer to appendix for plot data.

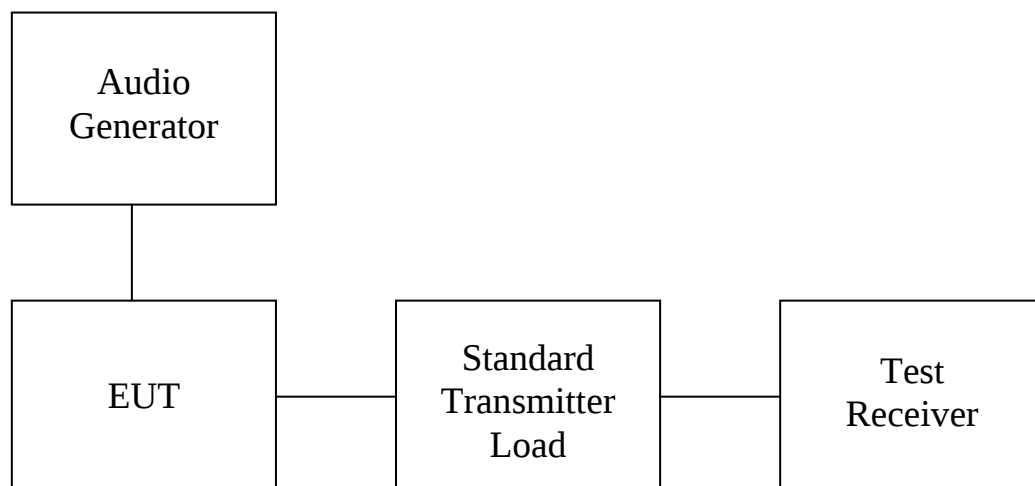
Test equipment: ETSTW-RE 003, ETSTW-RE 043, ETSTW-GSM 02

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4. Modulation Characteristics

4.1 Test procedure

- ☐ A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.
- ☐ Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

For digital modulation employed, this test item is not applicable.

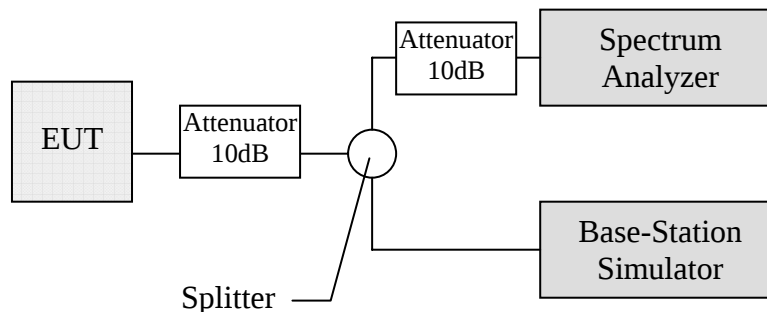
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5. Occupied Bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

5.1 Test procedure

The RF output of the transceiver was connected as the following figure. Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.



5.2 Test Results

Occupied Channel Bandwidth (kHz)	
Channel 128	245.192307692
Channel 188	243.589743590
Channel 251	245.192307692
Channel 512	243.589743590
Channel 661	245.192307692
Channel 810	245.192307692
-26dB Channel Bandwidth (kHz)	
Channel 128	336.538461538
Channel 188	331.730769231
Channel 251	331.730769231
Channel 512	330.128205128
Channel 661	334.935897436
Channel 810	331.730769231

Note: Please refer to appendix for plot data.

Test equipment: ETSTW-RE 003, ETSTW-RE 043, ETSTW-GSM 02

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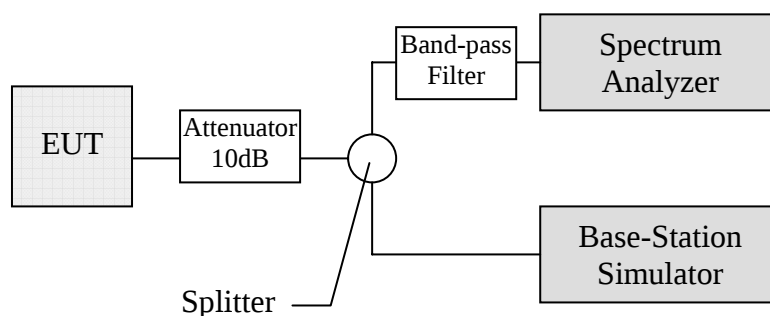
6. Spurious Emissions at Antenna Terminals

6.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

Tests were performed with an unmodulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.



6.2 Test Results

CH128

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
196.730769231	-36.03	-13	-23.03
708.974358974	-35.95	-13	-22.95
1649.038462	-18.84	-13	-5.84
7051.282051	-37.33	-13	-24.33
10443.509615	-36.21	-13	-23.21
17831.730769	-36.02	-13	-23.02
25941.506410	-33.90	-13	-20.90

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CH188

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
62.147435897	-36.42	-13	-23.42
550.000000000	-36.04	-13	-23.04
1673.076923	-19.18	-13	-6.18
5153.846154	-37.00	-13	-24.00
11631.009615	-36.63	-13	-23.63
15433.894231	-36.17	-13	-23.17
25001.602564	-33.82	-13	-20.82

CH251

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
117.179487179	-36.02	-13	-23.02
905.128205128	-35.79	-13	-22.79
1697.115385	-20.43	-13	-7.43
4756.410256	-37.40	-13	-24.40
11973.557692	-36.15	-13	-23.15
17621.394231	-35.68	-13	-22.68
25028.846154	-34.04	-13	-47.04

CH512

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
56.971153846	-35.38	-13	-22.38
612.820512821	-35.68	-13	-22.68
3706.730769	-34.28	-13	-21.28
6961.538462	-36.42	-13	-23.42
10382.612179	-36.01	-13	-23.01
17587.740385	-35.53	-13	-22.53
24851.762821	-33.94	-13	-20.94

Report Number: W6D20707-8368-P-22/24

FCC ID: VKQ-APOD-E900

CH661

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
134.342948718	-35.74	-13	-22.74
500.000000000	-35.45	-13	-22.45
3764.423077	-35.61	-13	-22.61
7320.512821	-37.52	-13	-24.52
11585.336538	-36.52	-13	-23.52
13254.807692	-35.97	-13	-22.97
24879.006410	-34.27	-13	-21.27

CH810

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
194.551282051	-35.98	-13	-22.98
300.000000000	-35.23	-13	-22.23
3822.115385	-35.43	-13	-22.43
5820.512821	-36.67	-13	-23.67
11570.112179	-36.32	-13	-23.32
17596.153846	-36.12	-13	-23.12
24388.621795	-34.17	-13	-21.17

Note: Please refer to appendix for plot data.

Test equipment: ETSTW-RE 003, ETSTW-GSM 02, ETSTW-GSM 23

6.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

6.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:

Maximum transmitter output power: $P=1.03752842$ Watts

Required attenuation: $A=43 + 10 \log_{10} P$

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$

Report Number: W6D20707-8368-P-22/24
 FCC ID: VKQ-APOD-E900

7. Field Strength of Spurious Radiation

7.1 Test procedure

The test procedure for field strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

7.2 Test Results

The measurements of the spurious emission at the upper, center and lower channel.

Model: E900 Date: 2007/7/17
 Mode: 850 band (ch128) Temperature: 26 °C Engineer: Michael
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
85.1902	-71.51	21.96	-43.55	-13	-30.55	250	150	
239.9398	-83.36	25.66	-51.7	-13	-38.7	265	150	
481.6673	-57.43	-6.39	-60.34	-13	-47.34	245	150	
977.6072	-64.02	0.52	-61.44	-13	-48.44	264	150	
1649.299	-47.61	4.69	-42.92	-13	-29.92	226	150	
2472.946	-59.9	6.41	-53.49	-13	-40.49	230	150	
3296.593	-59.73	11.34	-48.39	-13	-35.39	231	150	
5587.174	-58.92	18.84	-40.08	-13	-27.08	259	150	
10827.154	-70.69	35.21	-41.48	-13	-28.48	226	150	

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
85.1902	-70.46	21.91	-42.55	-13	-29.55	240	150	
239.9398	-87.15	26.92	-54.23	-13	-41.23	255	150	
489.0179	-57.02	-4.65	-57.67	-13	-44.67	265	150	
758.8938	-60.14	-0.88	-57.02	-13	-44.02	255	150	
898.9298	-62.11	0.01	-58.1	-13	-45.1	246	150	
1649.299	-45.63	4.03	-41.6	-13	-28.6	261	150	
2472.946	-61.25	5.87	-55.38	-13	-42.38	244	150	
3296.593	-60.96	10.19	-50.77	-13	-37.77	246	150	
7623.247	-54.29	11.76	-42.53	-13	-29.53	216	150	
10751.002	-71.19	35.21	-41.98	-13	-28.98	246	150	

Report Number: W6D20707-8368-P-22/24
 FCC ID: VKQ-APOD-E900

Model: E900 Date: 2007/7/17
 Mode: 850 band (ch188) Temperature: 26 °C Engineer: Michael
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
83.5669	-72.44	22.27	-44.17	-13	-31.17	246	150	
239.9398	-83.71	25.66	-52.05	-13	-39.05	238	150	
470.1161	-57.41	-6.94	-60.84	-13	-47.84	271	150	
904.3768	-64.21	-0.02	-61.96	-13	-48.96	244	150	
1673.347	-42.23	4.98	-37.25	-13	-24.25	226	150	
2509.018	-41.33	6.65	-34.68	-13	-21.68	271	150	
3344.689	-59.98	11.80	-48.18	-13	-35.18	262	150	
5595.19	-59.49	18.88	-40.61	-13	-27.61	217	150	
10760.521	-72.03	35.56	-42.47	-13	-29.47	244	150	

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
94.93	-73.16	21.65	-45.51	-13	-32.51	229	150	
239.9398	-86.72	26.92	-53.8	-13	-40.8	247	150	
477.4669	-56.64	-5.03	-57.67	-13	-44.67	265	150	
854.4469	-58.29	-0.59	-54.88	-13	-41.88	223	150	
1673.347	-46.24	3.65	-42.59	-13	-29.59	216	150	
2509.018	-36.14	6.23	-29.91	-13	-16.91	209	150	
3344.689	-59.77	10.80	-48.97	-13	-35.97	224	150	
5675.351	-59.07	16.27	-42.8	-13	-29.8	204	150	
10684.369	-71.92	35.49	-42.43	-13	-29.43	222	150	

Model: E900 Date: 2007/7/17
 Mode: 850 band (ch251) Temperature: 26 °C Engineer: Michael
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
84.1081	-73.87	22.17	-45.7	-13	-32.7	221	150	
240.4809	-83.41	25.69	-51.72	-13	-38.72	231	150	
466.9658	-57.86	-7.09	-61.43	-13	-48.43	207	150	
912.2445	-64.35	-0.05	-62.15	-13	-49.15	248	150	
1697.395	-48.37	5.27	-43.1	-13	-30.1	264	150	
2545.09	-43.67	6.83	-36.84	-13	-23.84	251	150	
3398.798	-61.34	12.29	-49.05	-13	-36.05	259	150	
5490.982	-58.46	18.29	-40.17	-13	-27.17	219	150	
10760.521	-71.32	35.56	-41.76	-13	-28.76	214	150	

Report Number: W6D20707-8368-P-22/24
 FCC ID: VKQ-APOD-E900

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
85.1902	-69.1	21.91	-41.19	-13	-28.19	227	150	
239.3987	-87.25	26.84	-54.41	-13	-41.41	225	150	
474.3165	-56.22	-5.11	-57.33	-13	-44.33	277	150	
927.6774	-62.8	0.24	-58.56	-13	-45.56	221	150	
1697.395	-45.06	3.27	-41.79	-13	-28.79	288	150	
2545.09	-60.65	6.34	-54.31	-13	-41.31	272	150	
3398.798	-60.41	11.52	-48.89	-13	-35.89	263	150	
5643.287	-58.48	15.98	-42.5	-13	-29.5	199	150	
10693.888	-72.16	35.62	-42.54	-13	-29.54	231	150	

Model: E900 Date: 2007/7/19
 Mode: 1900 band (ch512) Temperature: 26 °C Engineer: Michael
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
83.5669	-79.38	22.27	-51.11	-13	-38.11	291	150	
284.8496	-91.22	26.90	-58.32	-13	-45.32	277	150	
523.046	-54.85	-3.92	-55.41	-13	-42.41	269	150	
949.499	-58.16	-0.20	-56.22	-13	-43.22	271	150	
1719.689	-62.07	4.93	-57.14	-13	-44.14	287	150	
3703.337	-57.52	10.13	-47.39	-13	-34.39	267	150	
5579.158	-58.63	18.80	-39.83	-13	-26.83	275	150	
11103.206	-70.24	34.99	-41.25	-13	-28.25	280	150	
17915.832	-70.17	40.24	-41.93	-13	-28.93	299	150	
18408.818	-51.16	8.49	-54.67	-13	-41.67	266	150	

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
83.026	-74.95	21.98	-46.97	-13	-33.97	289	150	
287.014	-91.87	27.62	-58.25	-13	-45.25	276	150	
523.046	-55.91	-3.89	-55.8	-13	-42.8	298	150	
948.0961	-52.09	0.40	-47.69	-13	-34.69	284	150	
1663.808	-62.03	3.80	-58.23	-13	-45.23	281	150	
3703.337	-58.3	10.21	-48.09	-13	-35.09	283	150	
7406.814	-52.54	11.33	-41.21	-13	-28.21	264	150	
11103.206	-70.85	35.34	-41.51	-13	-28.51	273	150	
17894.79	-70.19	39.63	-42.56	-13	-29.56	282	150	
18374.75	-50.7	8.51	-54.19	-13	-41.19	277	150	

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 FCC ID: VKQ-APOD-E900

Model: E900 Date: 2007/7/19
 Mode: 1900 band (ch661) Temperature: 26 °C Engineer: Michael
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
80.3205	-78.2	22.89	-49.31	-13	-36.31	276	150	
239.9398	-90.34	25.66	-58.68	-13	-45.68	257	150	
496.3928	-56.82	-5.43	-58.81	-13	-45.81	268	150	
942.485	-57.63	-0.17	-55.64	-13	-42.64	249	150	
1682.435	-62.51	5.09	-57.42	-13	-44.42	267	150	
3348.176	-61.06	11.83	-49.23	-13	-36.23	269	150	
5587.174	-58.18	18.84	-39.34	-13	-26.34	301	150	
9399.299	-64.72	31.19	-39.53	-13	-26.53	257	150	
11284.068	-68.81	34.78	-40.03	-13	-27.03	268	150	
17926.353	-70.01	40.19	-41.82	-13	-28.82	266	150	
18442.886	-51.29	8.56	-54.73	-13	-41.73	258	150	

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
84.6492	-73.78	21.93	-45.85	-13	-32.85	259	150	
278.8977	-91.9	27.62	-58.28	-13	-45.28	285	150	
455.7114	-54.04	-5.90	-55.94	-13	-42.94	289	150	
953.7074	-51.98	0.52	-47.46	-13	-34.46	276	150	
1587.605	-62.31	4.42	-57.89	-13	-44.89	274	150	
3481.884	-61.37	11.54	-49.83	-13	-36.83	281	150	
5723.447	-58.5	16.38	-42.12	-13	-29.12	291	150	
9399.299	-68.33	30.79	-43.54	-13	-30.54	294	150	
11284.068	-71.54	35.00	-42.54	-13	-29.54	273	150	
17905.311	-69.72	39.63	-42.09	-13	-29.09	271	150	
18391.784	-49.77	8.48	-53.29	-13	-40.29	269	150	

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Model: E900 Date: 2007/7/19
Mode: 1900 band (ch810) Temperature: 26 °C Engineer: Michael
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
83.026	-77.53	22.38	-49.15	-13	-36.15	239	150	
240.4809	-89.73	25.69	-58.04	-13	-45.04	247	150	
473.9479	-55.5	-6.77	-58.77	-13	-45.77	284	150	
942.485	-59.05	-0.17	-57.06	-13	-44.06	262	150	
1662.114	-61.11	4.85	-56.26	-13	-43.26	248	150	
3406.673	-61.36	12.23	-49.13	-13	-36.13	261	150	
5731.463	-56.79	17.79	-39	-13	-26	264	150	
9551.603	-66.97	33.51	-39.46	-13	-26.46	254	150	
11464.93	-68.94	34.77	-40.17	-13	-27.17	283	150	
17852.705	-69.77	40.06	-41.71	-13	-28.71	249	150	
18391.784	-51.79	8.48	-55.31	-13	-42.31	251	150	

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)	Note
85.1902	-72.3	21.91	-44.39	-13	-31.39	246	150	
285.3908	-92.42	27.62	-58.8	-13	-45.8	264	150	
466.9338	-54.19	-5.30	-55.49	-13	-42.49	268	150	
948.0961	-53.7	0.40	-49.3	-13	-36.3	295	150	
1690.902	-61.43	3.37	-58.06	-13	-45.06	254	150	
3473.527	-61.88	11.54	-50.34	-13	-37.34	275	150	
5731.463	-57.67	16.34	-41.33	-13	-28.33	258	150	
9551.603	-71.27	33.68	-43.59	-13	-30.59	262	150	
11464.93	-71.26	34.74	-42.52	-13	-29.52	253	150	
17821.142	-69.79	39.79	-42	-13	-29	266	150	
18408.818	-50.81	8.49	-54.32	-13	-41.32	260	150	

Note: Please refer to appendix for plot data.

7.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

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7.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:

Maximum transmitter radiated power: $P=1.03752842$ watt

Required attenuation: $A=43 + 10 \log_{10} P$

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$

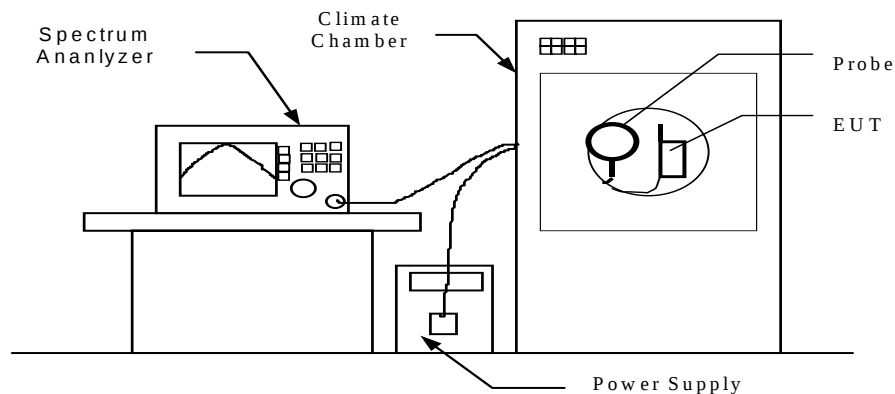
Test equipment: ETSTW-RE 003, ETSTW-RE 017, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044,
ETSTW-GSM 02

Report Number: W6D20707-8368-P-22/24
FCC ID: VKQ-APOD-E900

8. Frequency Stability

8.1 Test procedure

- ☒ The equipment under test was supplied with rated power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.
After the temperature stabilized the frequency output was recorded from the counter.
- ☐ An external variable power supply was used to supply nominal voltage and 85% to 115% of nominal voltage to the EUT under room temperature. Record the frequencies measured from the counter.
- ☒ End point voltage: For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer. Then record the frequencies measured from the counter.



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8.2 Test Results

8.2.1 Frequency Stability vs. Temperature

CH128 824.204MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-42	-0.05	±2.5
	-10	-25	-0.03	
	0	-33	-0.04	
	10	-27	-0.03	
	20	-29	-0.04	
	30	-34	-0.04	
	40	-40	-0.05	
	50	-44	-0.05	

CH188 836.268MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-46	-0.06	±2.5
	-10	-42	-0.05	
	0	-28	-0.03	
	10	-42	-0.05	
	20	-28	-0.03	
	30	-27	-0.03	
	40	-37	-0.04	
	50	-9	-0.07	

CH251 848.870MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-48	-0.06	±2.5
	-10	-39	-0.05	
	0	-24	-0.03	
	10	-38	-0.04	
	20	-25	-0.03	
	30	-27	-0.03	
	40	-20	-0.02	
	50	-35	-0.04	

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CH512 1850.2MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-39	-0.02	±2.5
	-10	-39	-0.02	
	0	53	0.03	
	10	-45	-0.02	
	20	46	0.02	
	30	-43	-0.02	
	40	43	0.02	
	50	-41	-0.02	

CH661 1880.072MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-46	-0.02	±2.5
	-10	-48	-0.03	
	0	43	0.02	
	10	-37	-0.02	
	20	39	0.02	
	30	-50	-0.03	
	40	-53	-0.03	
	50	-44	-0.02	

CH810 1909.831MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
3.7VDC	-20	-48	-0.03	±2.5
	-10	-40	-0.02	
	0	-51	-0.03	
	10	-36	-0.02	
	20	54	0.03	
	30	-33	-0.02	
	40	-53	-0.03	
	50	-45	-0.02	

Report Number: W6D20707-8368-P-22/24
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8.2.2 Frequency Stability vs. Voltage

CH128

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-27	-0.03	±2.5

CH188

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-27	-0.03	±2.5

CH251

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-25	-0.03	±2.5

CH512

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-43	-0.02	±2.5

CH661

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-37	-0.02	±2.5

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CH810

Supplied Voltage	Temperature (°C)	Frequency Drift (Hz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage 3.6VDC	20	-36	-0.02	±2.5

Test equipment: ETSTW-CE009, ETSTW-RE 003, ETSTW-RE055, ETSTW-GSM 02

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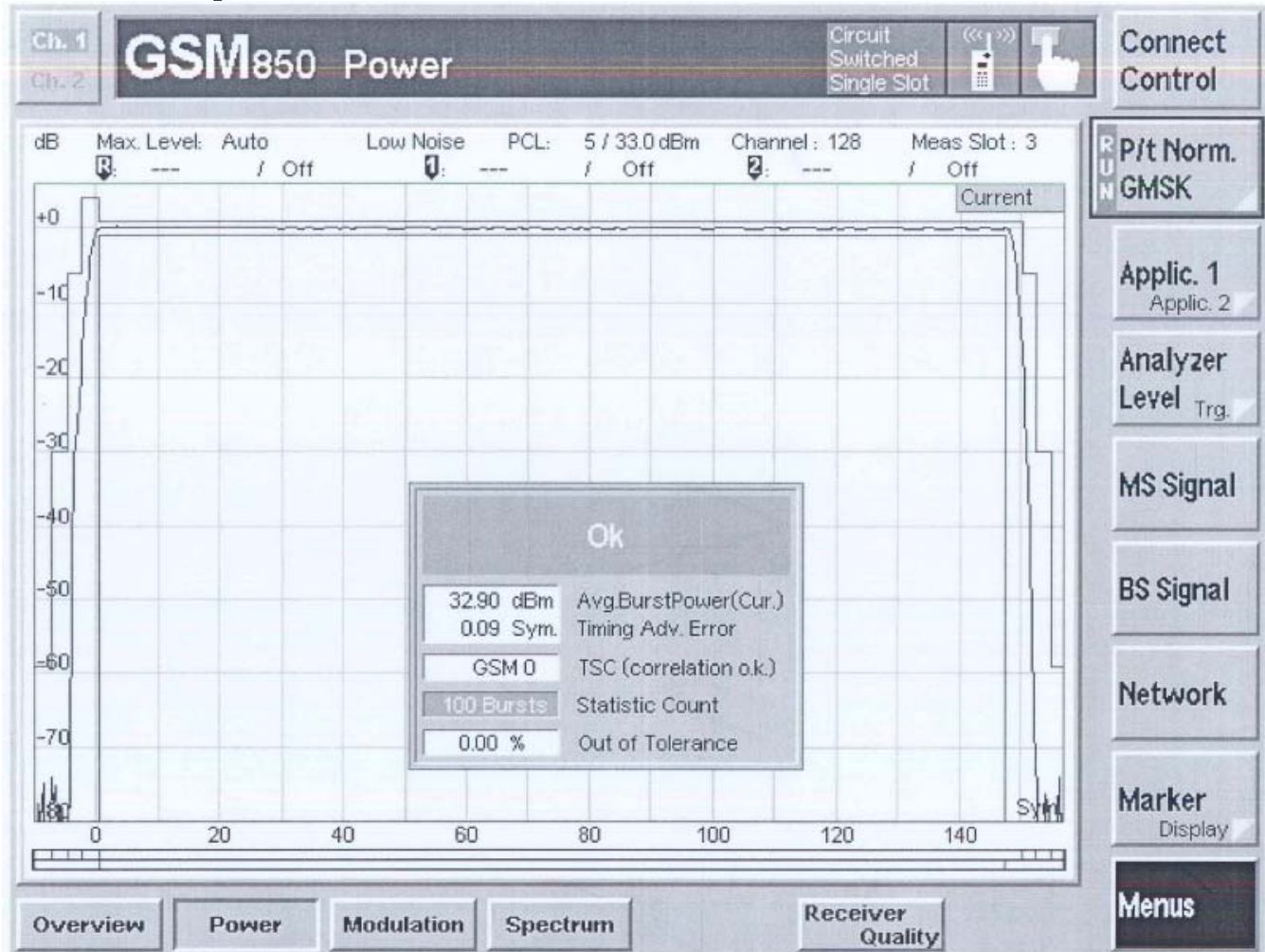
Appendix

Measurement diagrams

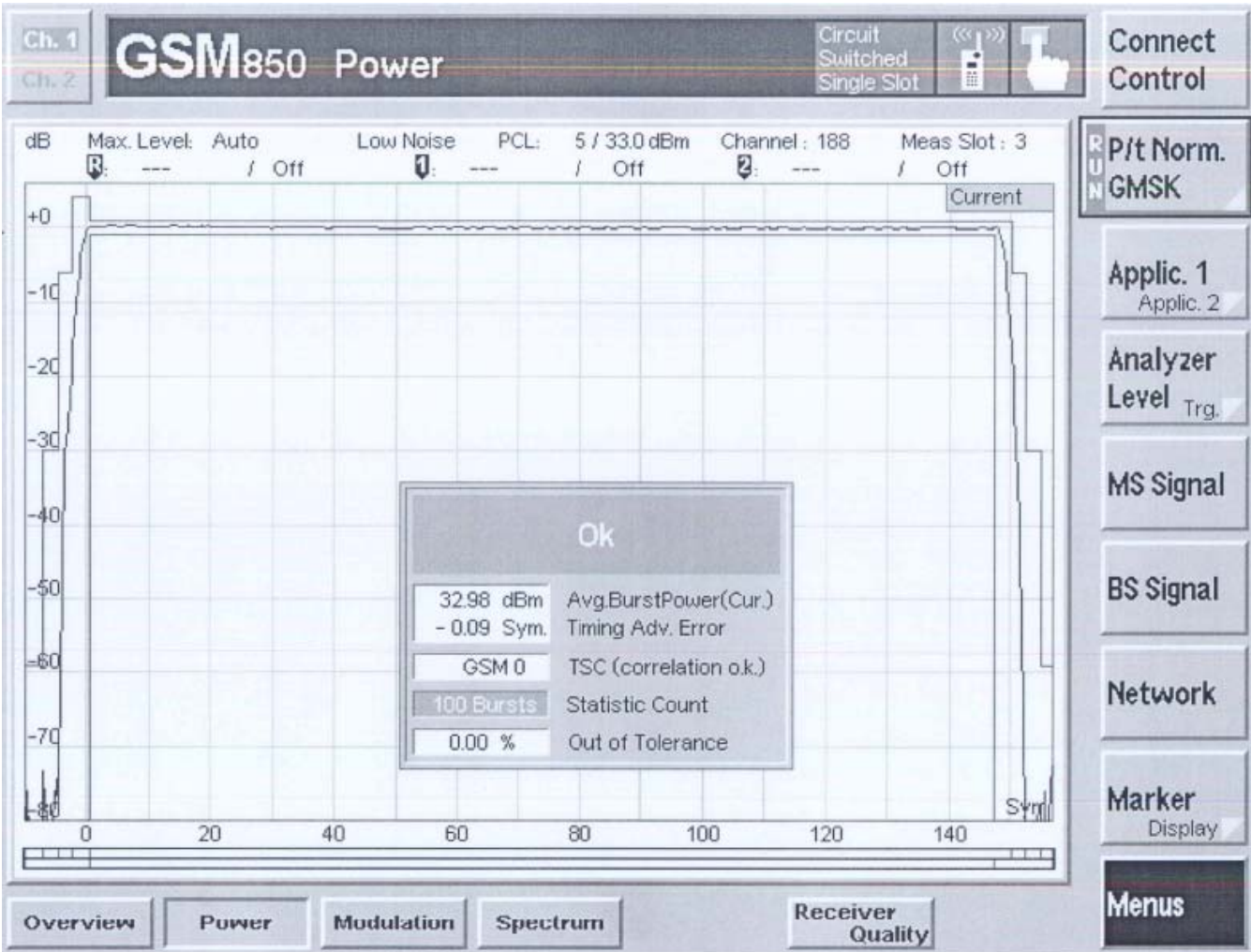
1. RF Power Output
2. Occupied Bandwidth / Emission Mask
3. Spurious Emissions at Antenna Terminals
(The measurement diagram are wideband pre-scan results; only for reference.)
4. Filed Strength of Spurious Emission
(The measurement diagram are wideband pre-scan results; only for reference.)

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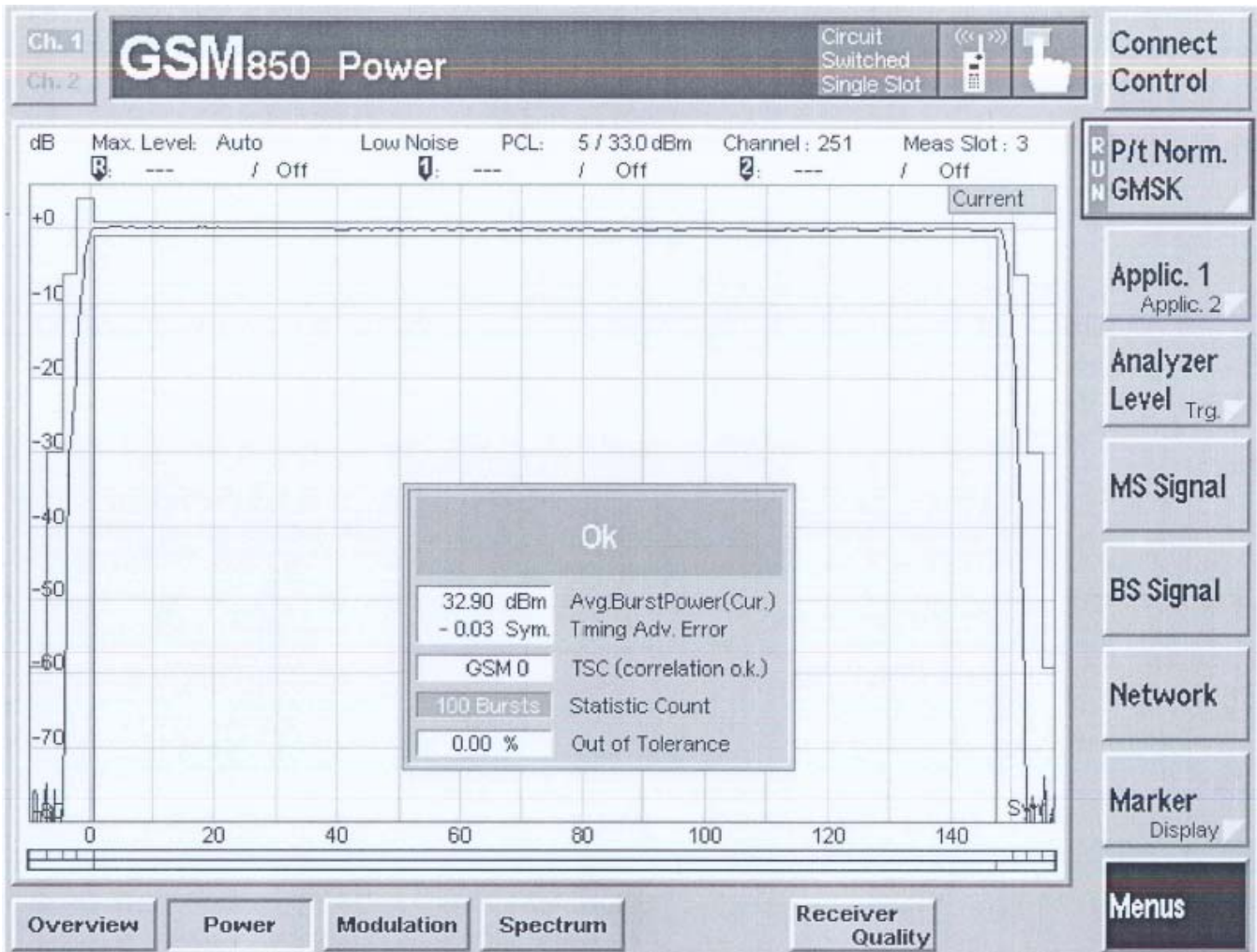
RF Power output



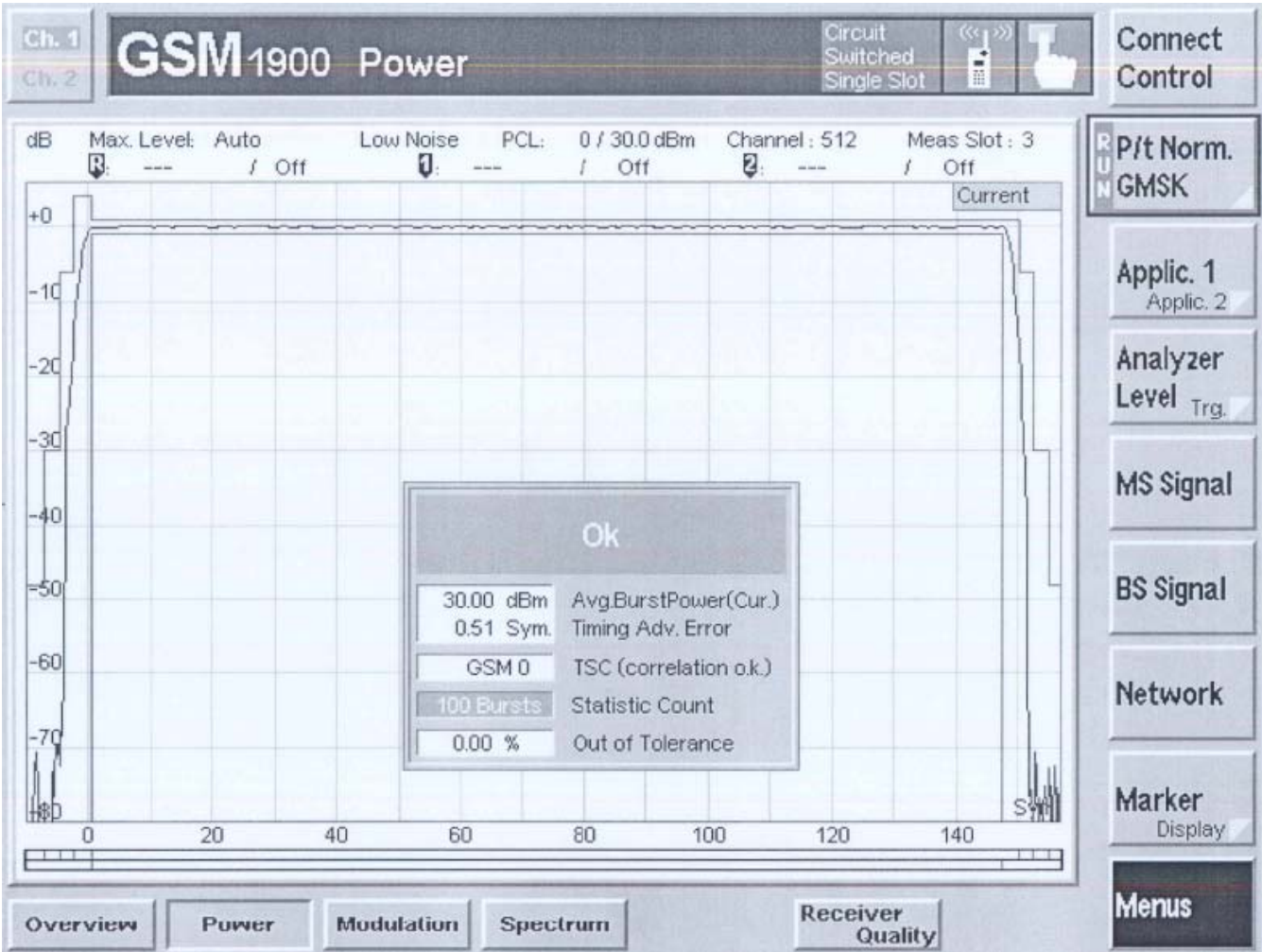
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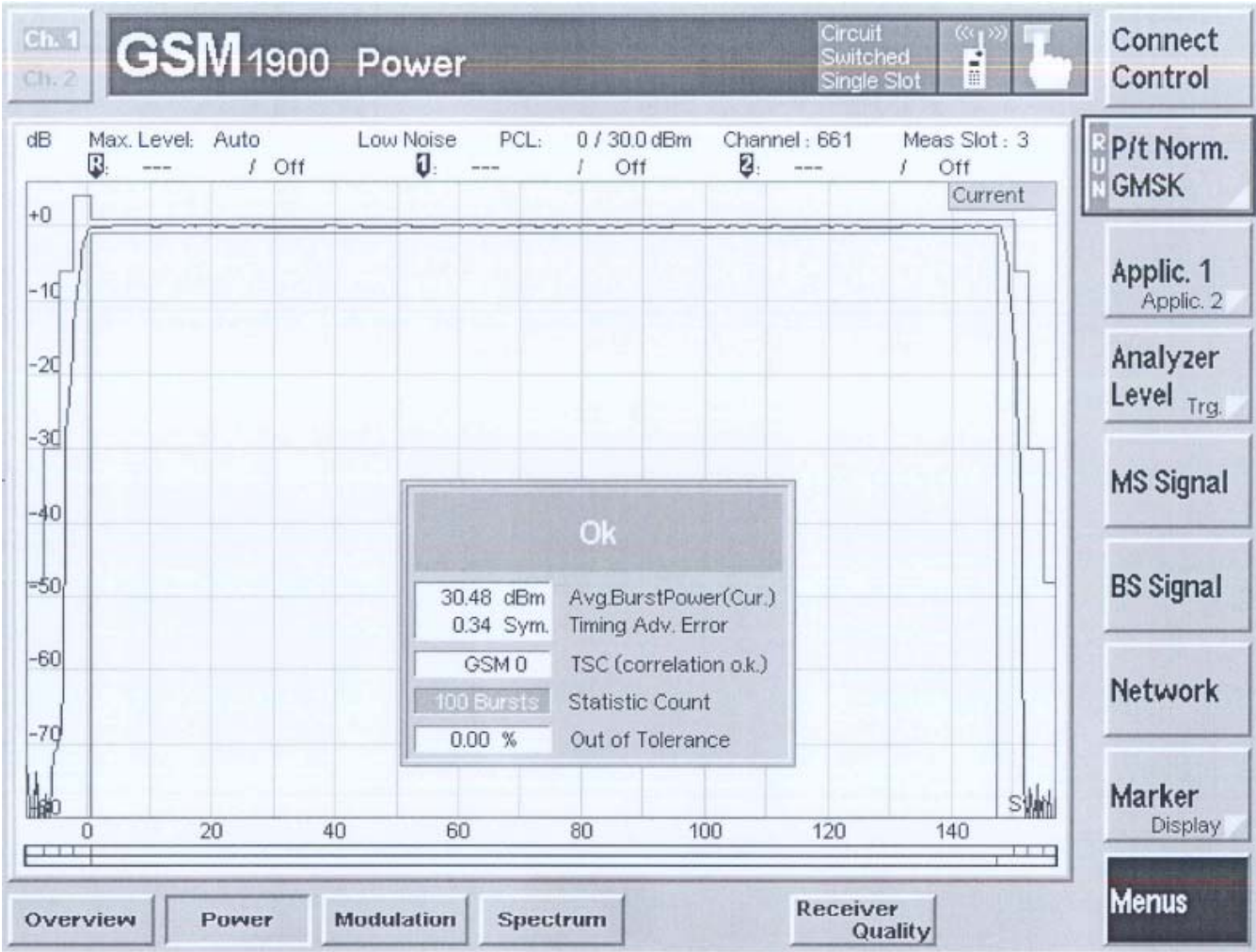
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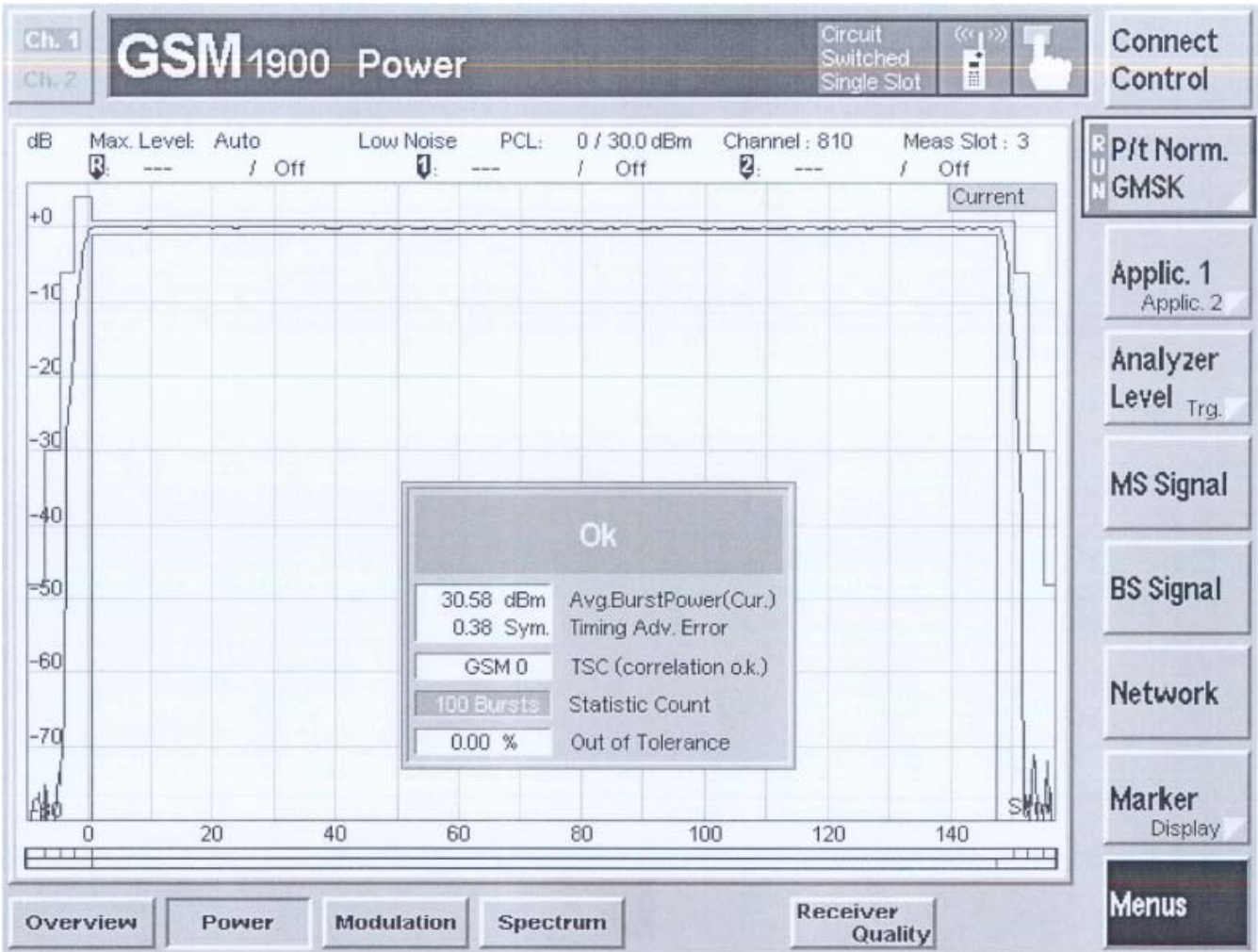
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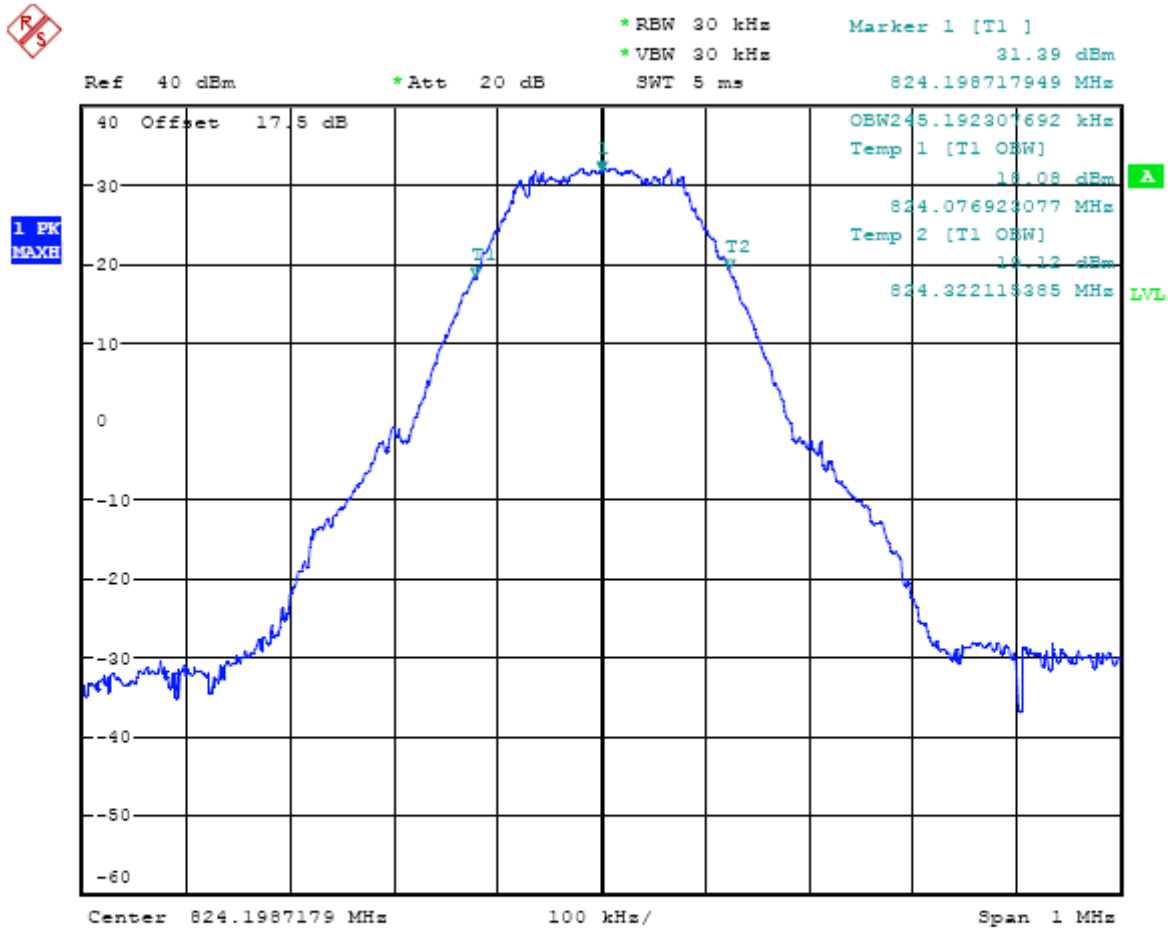


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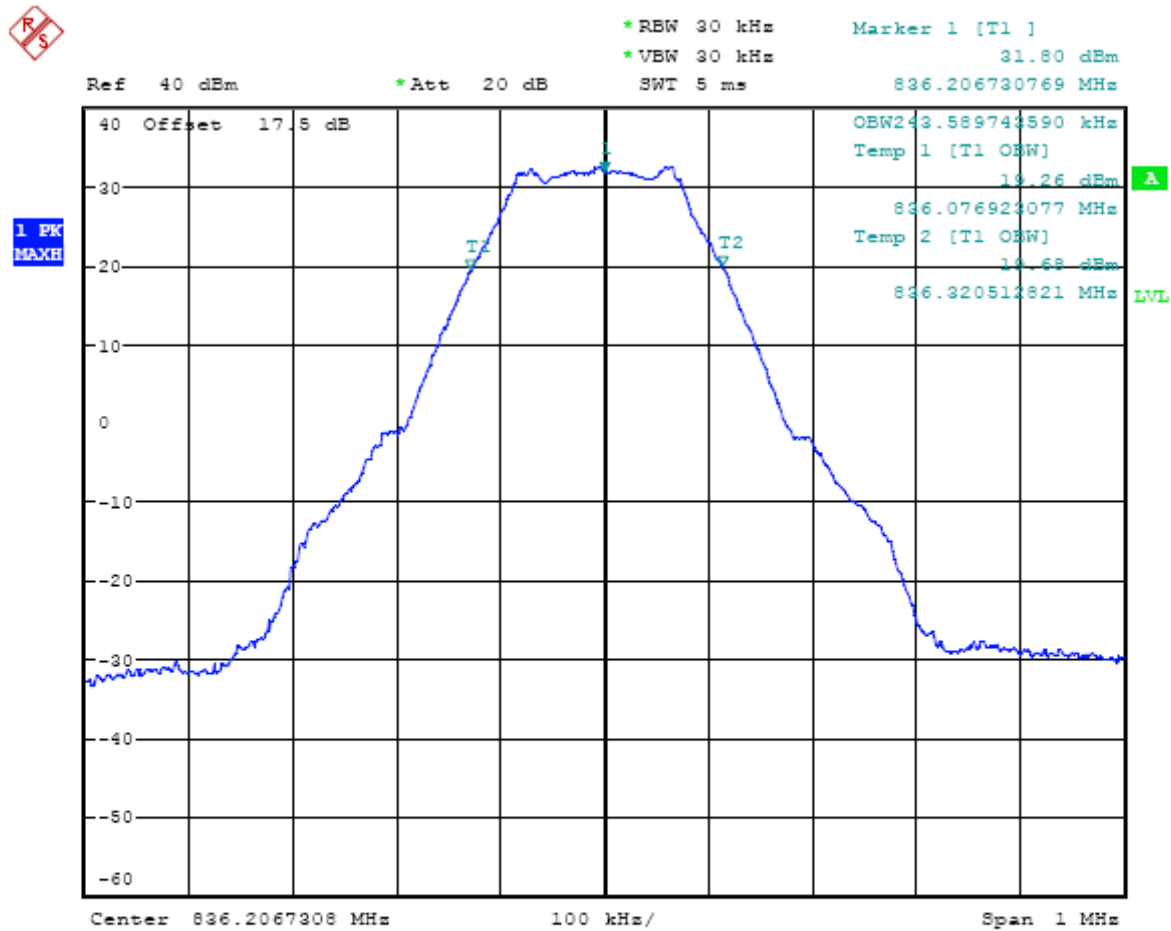
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Occupied Bandwidth / Emission Mask



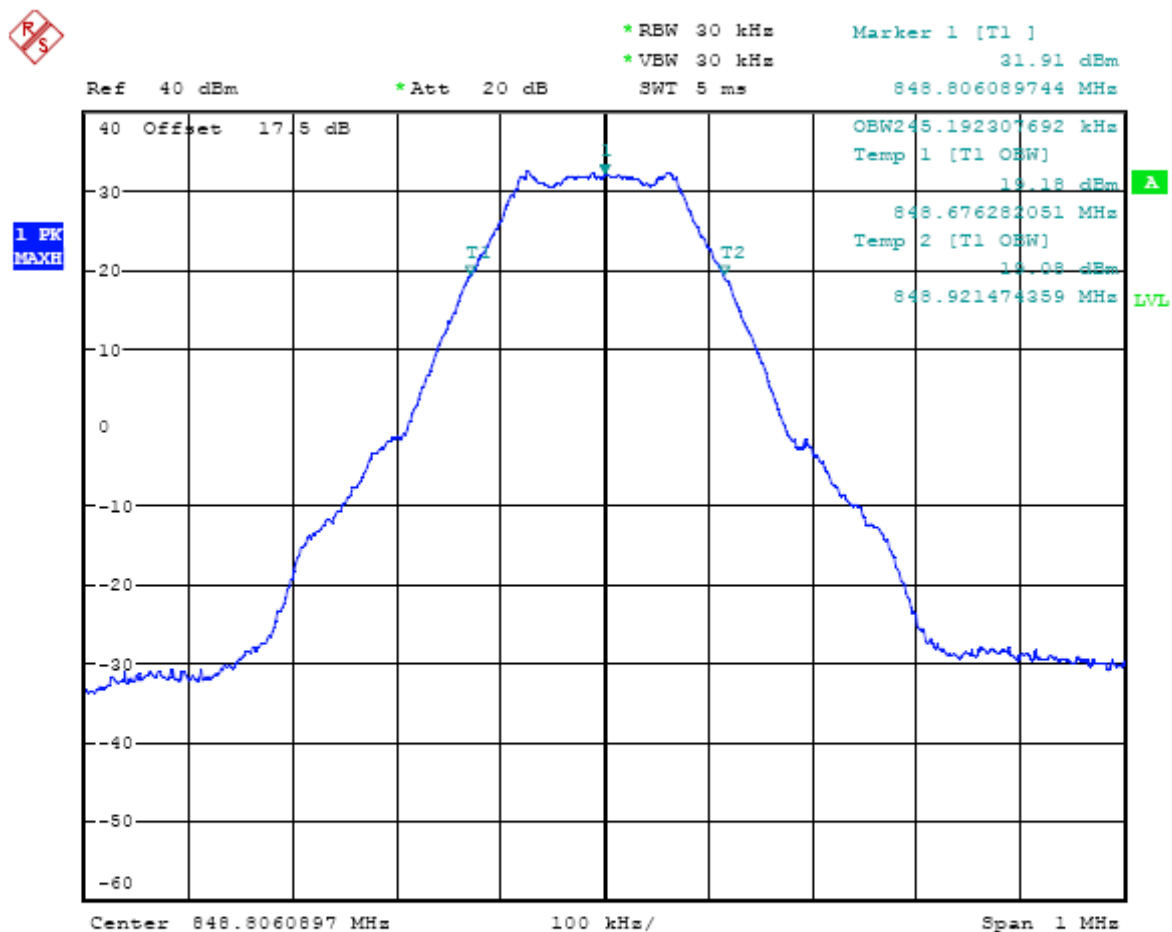
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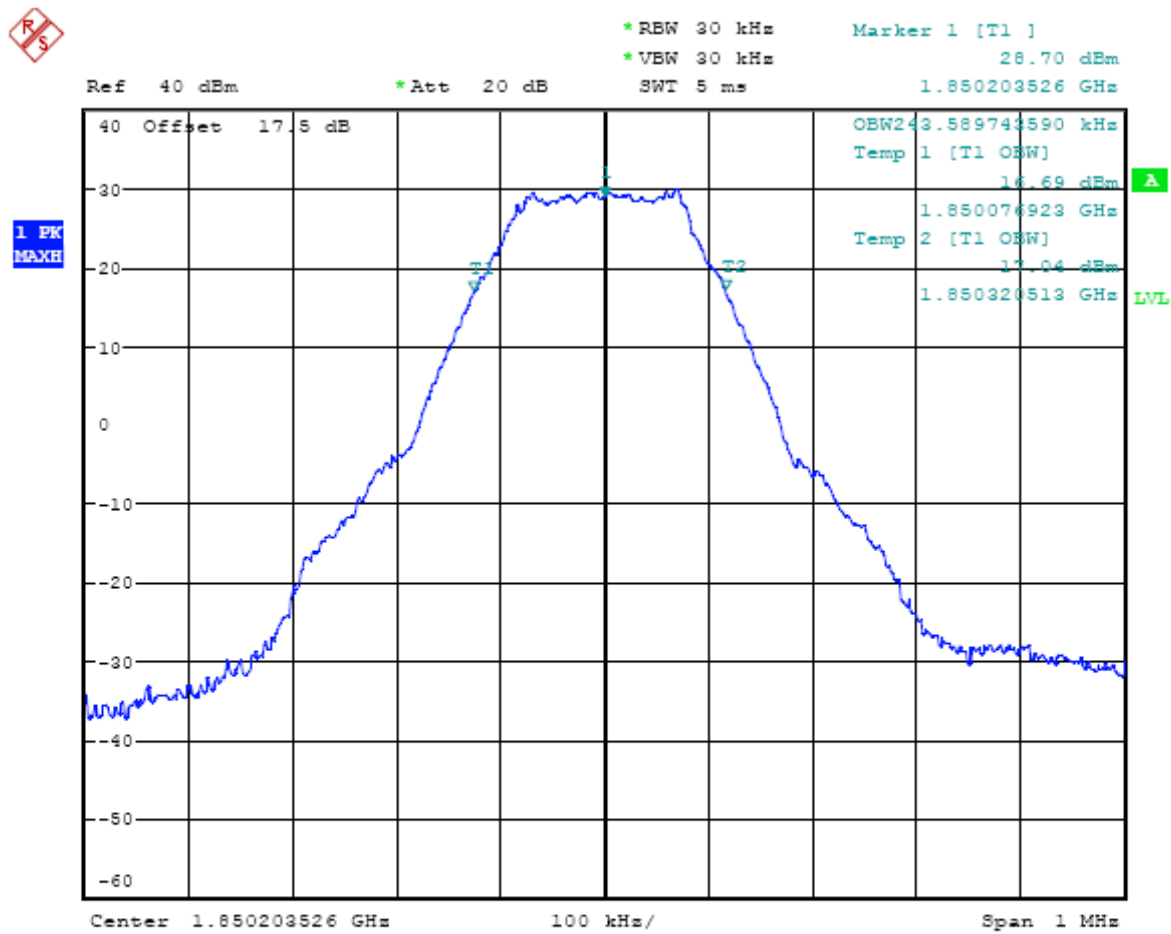
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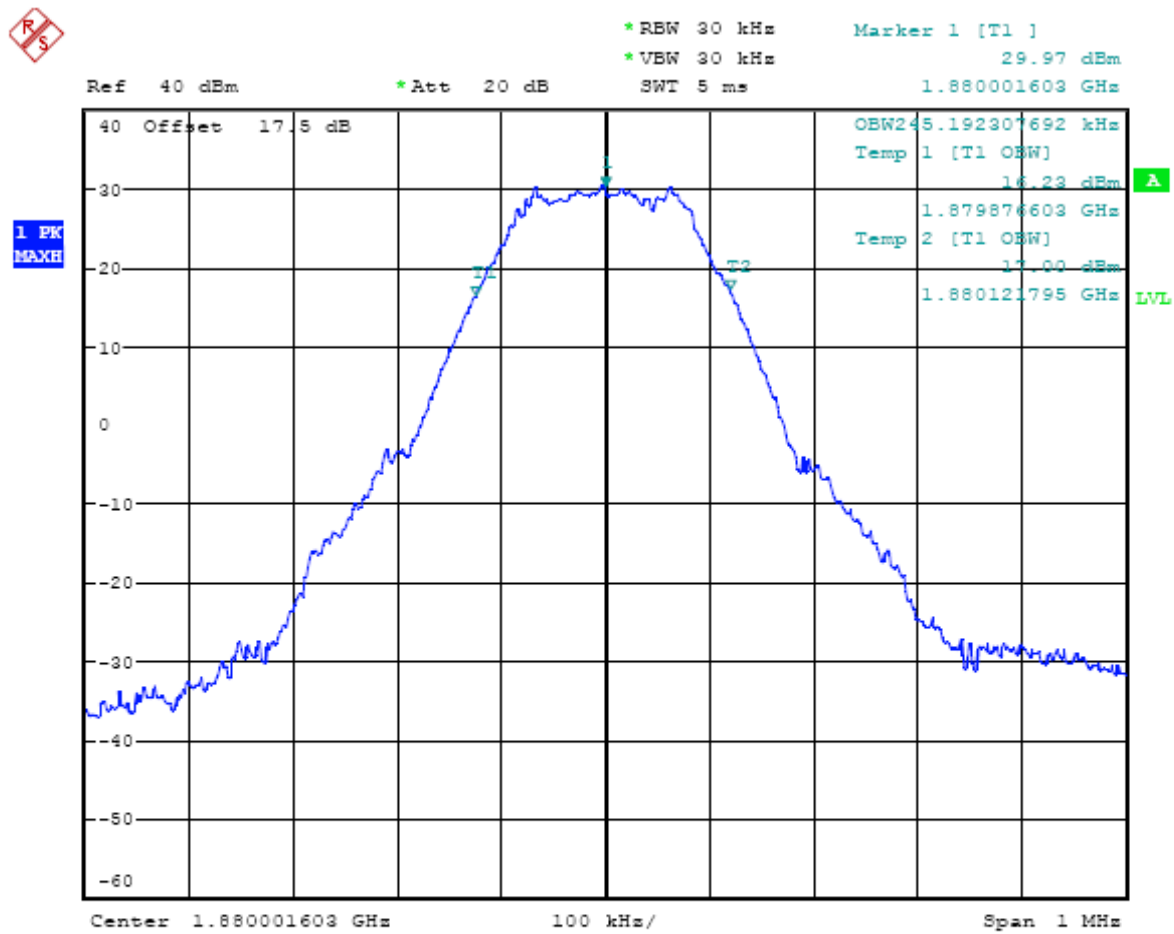
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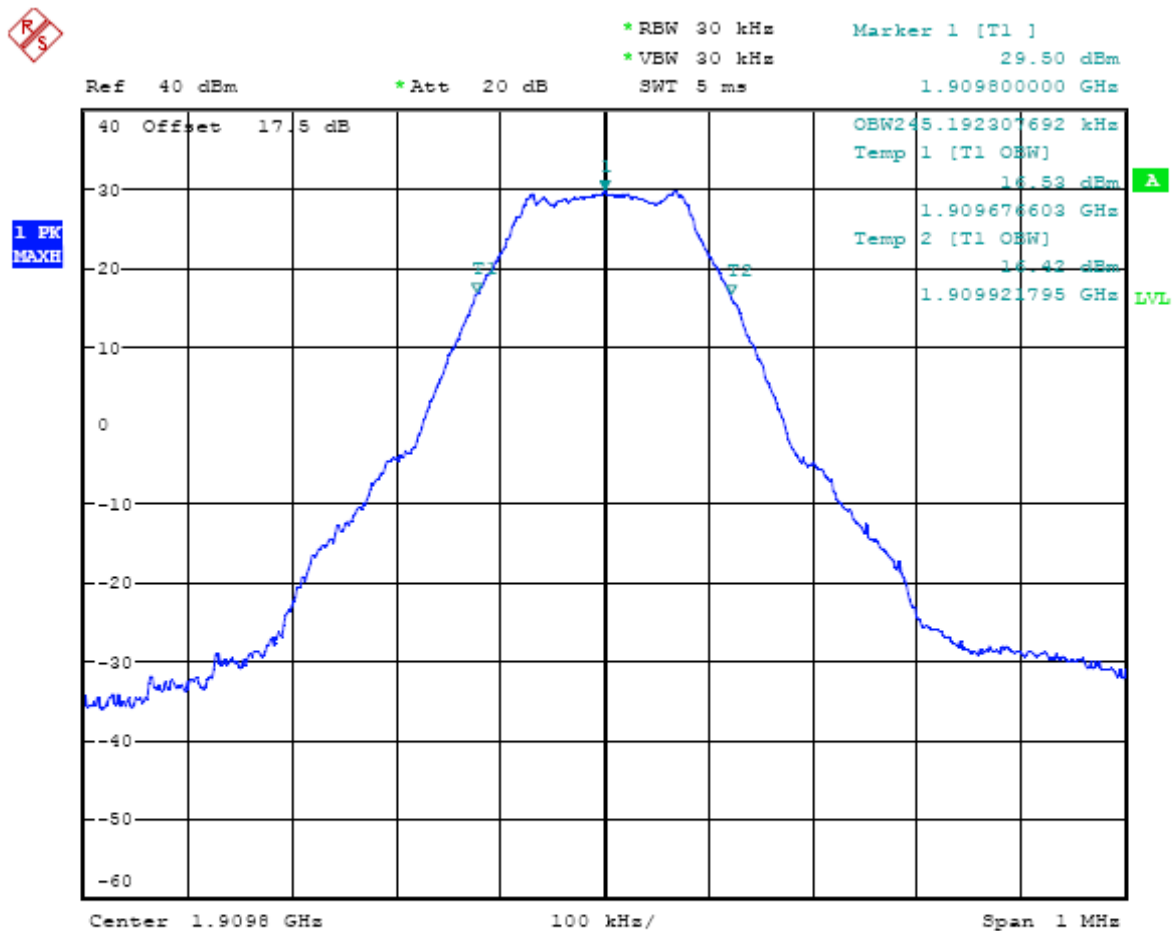
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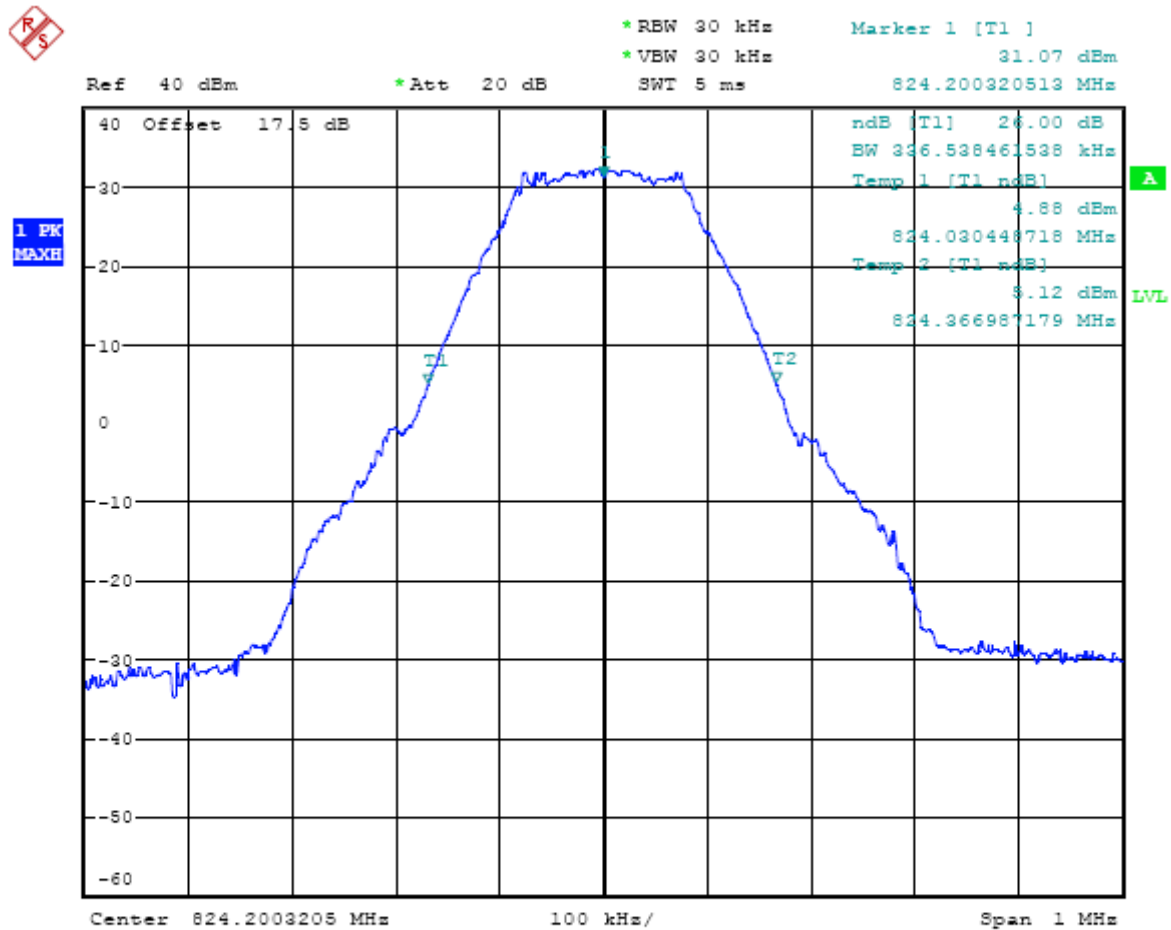
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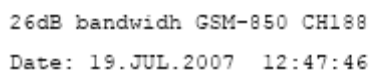
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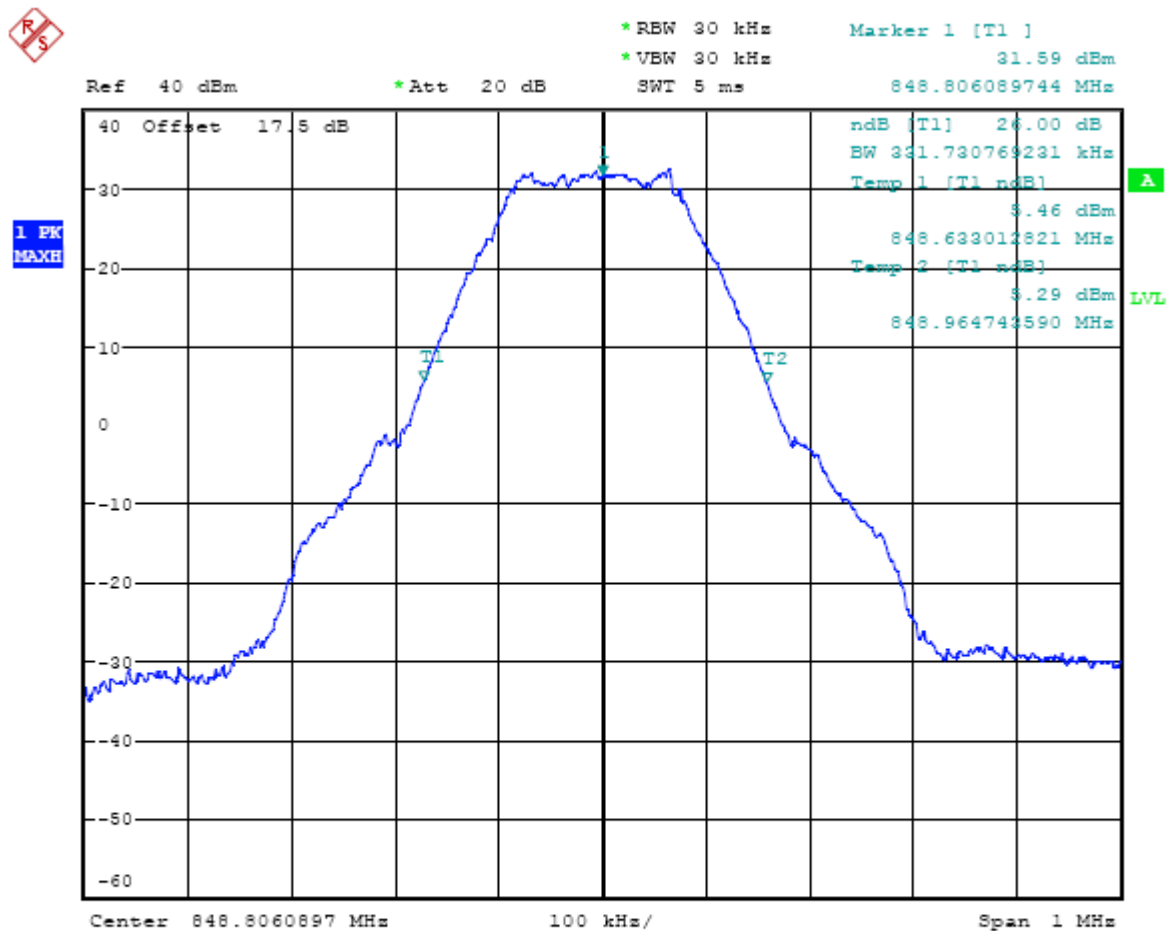


26dB bandwidth GSM-850 CH128
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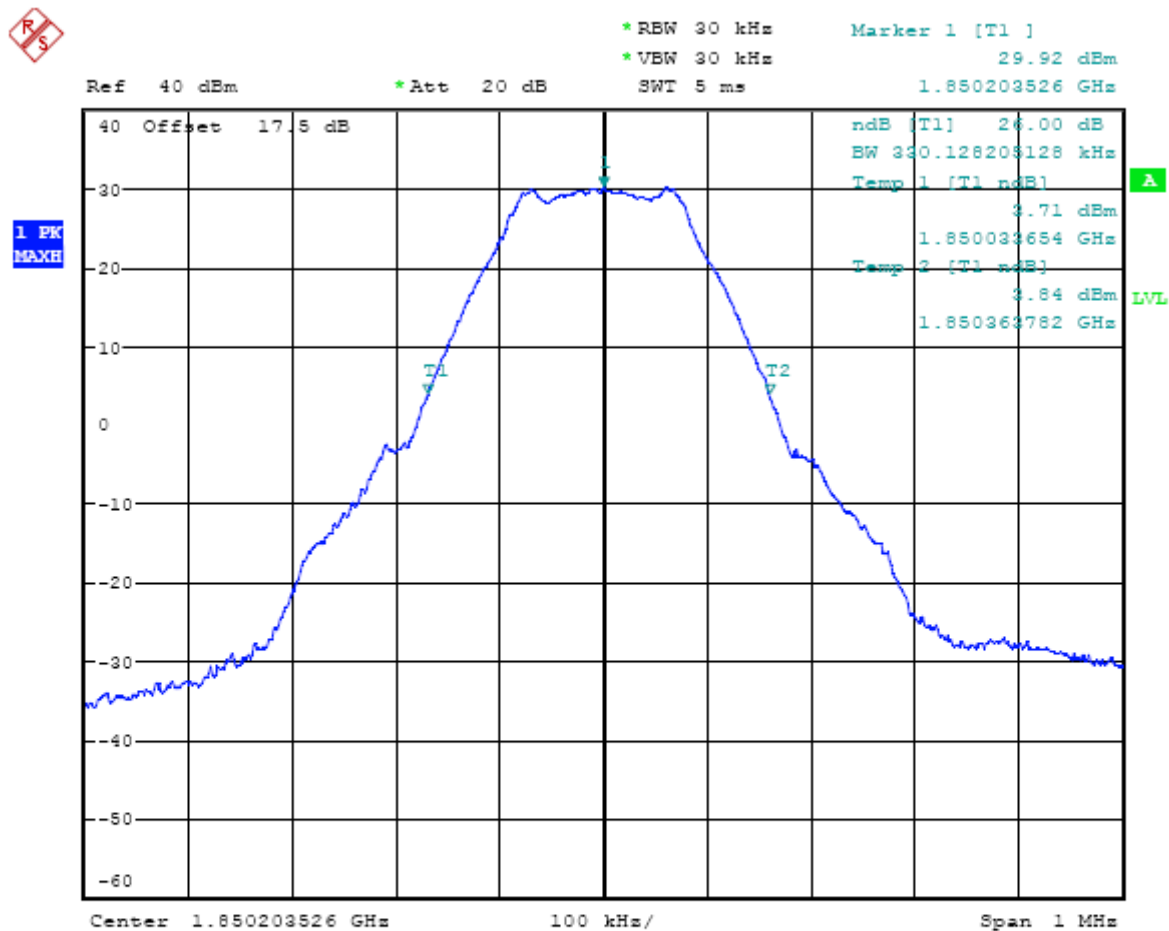


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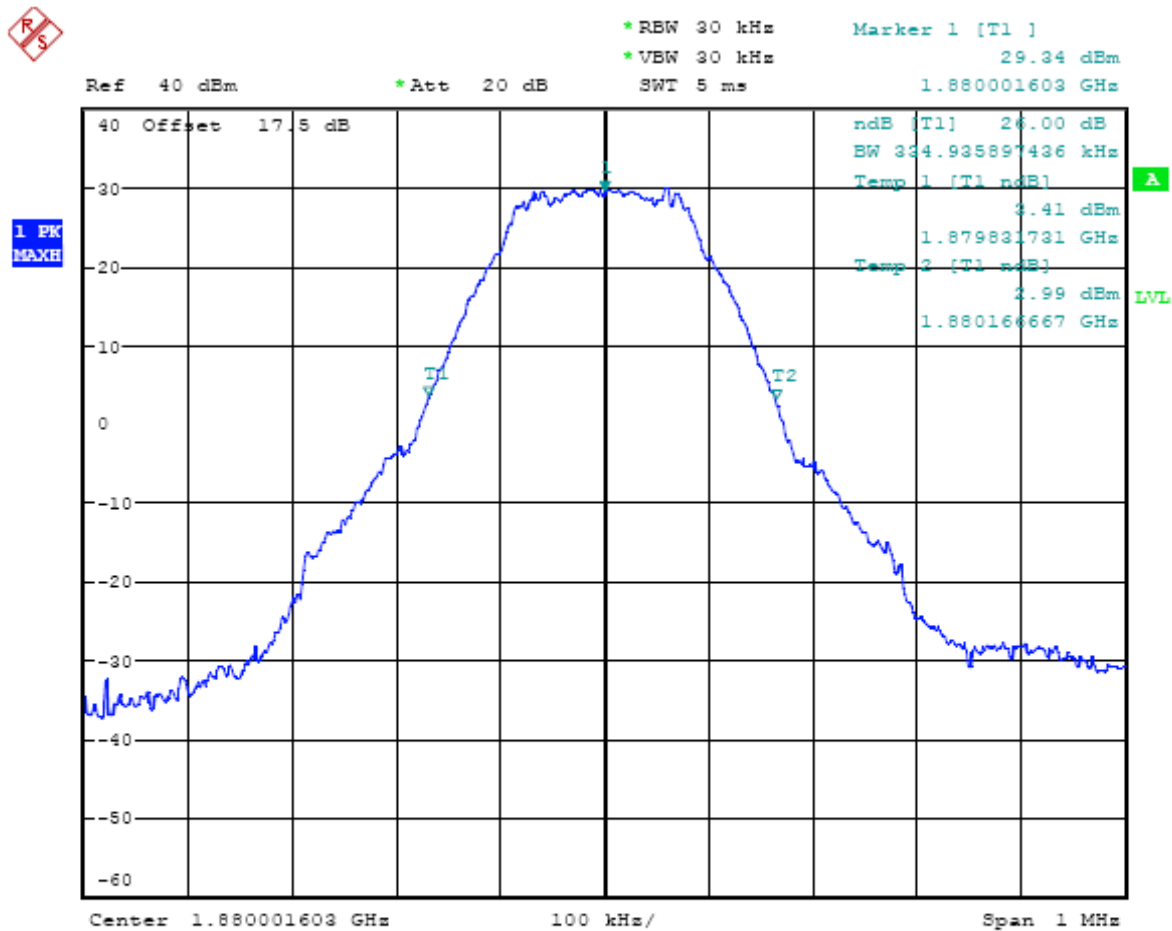
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26dB bandwidth GSM-1900 CH512

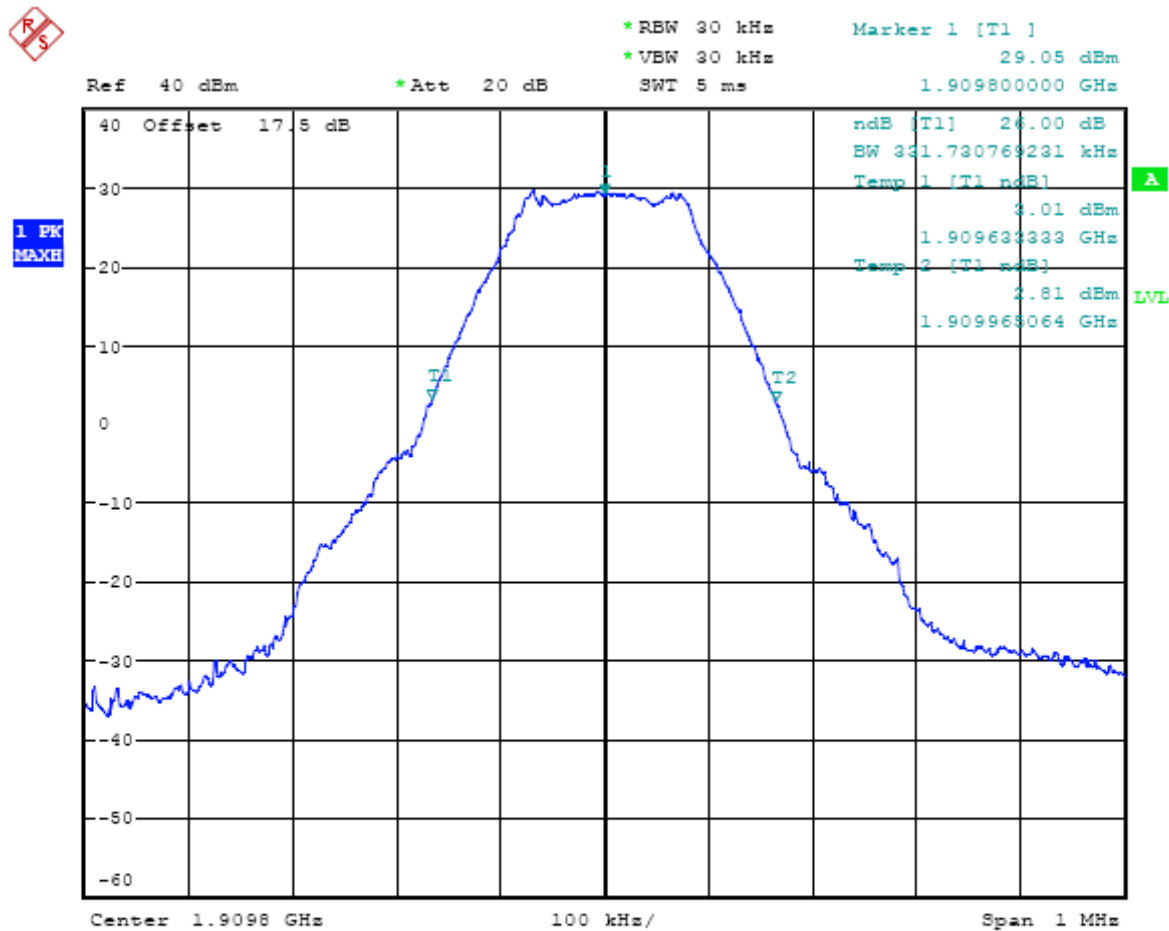
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26dB bandwidth GSM-1900 CH661
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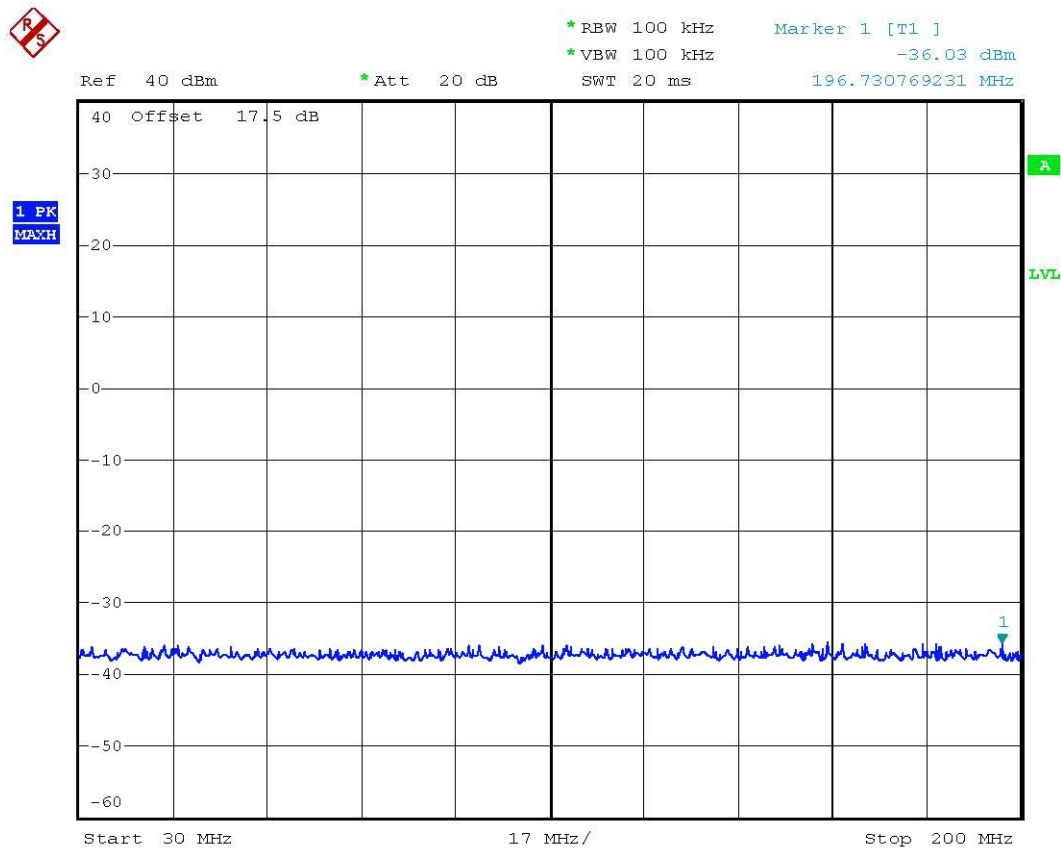
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26dB bandwidth GSM-1900 CH810
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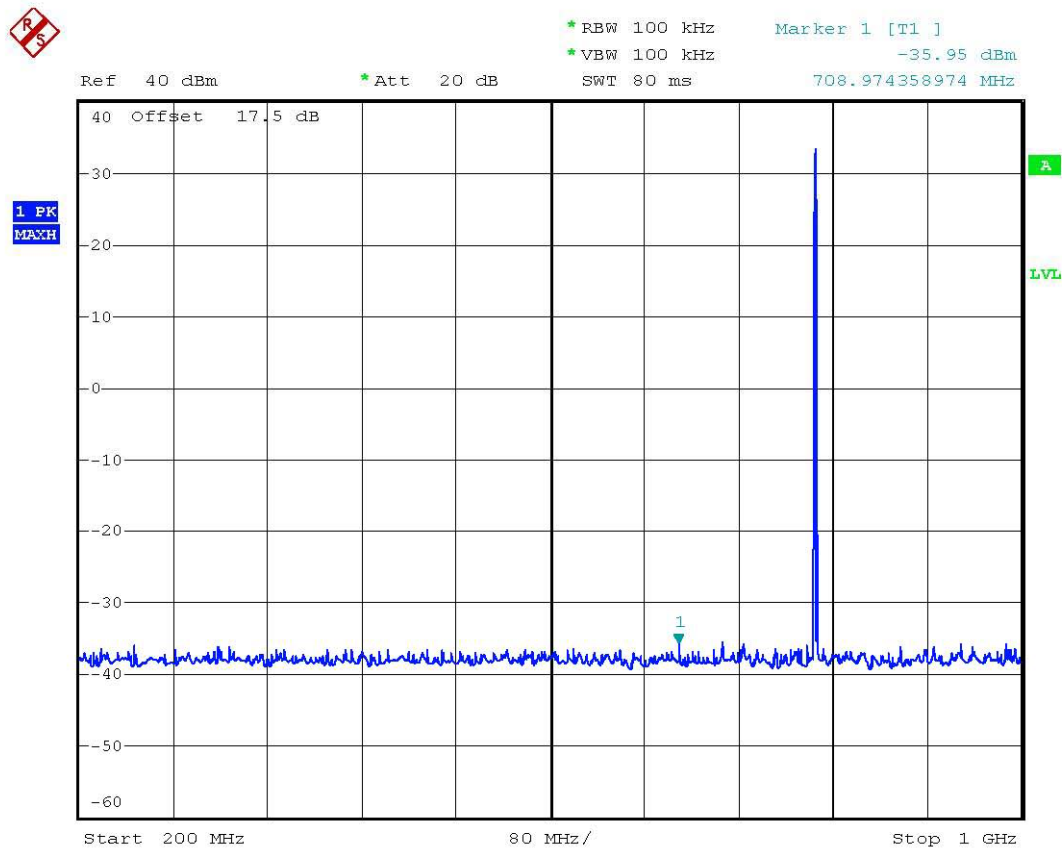
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Spurious Emissions at Antenna Terminals



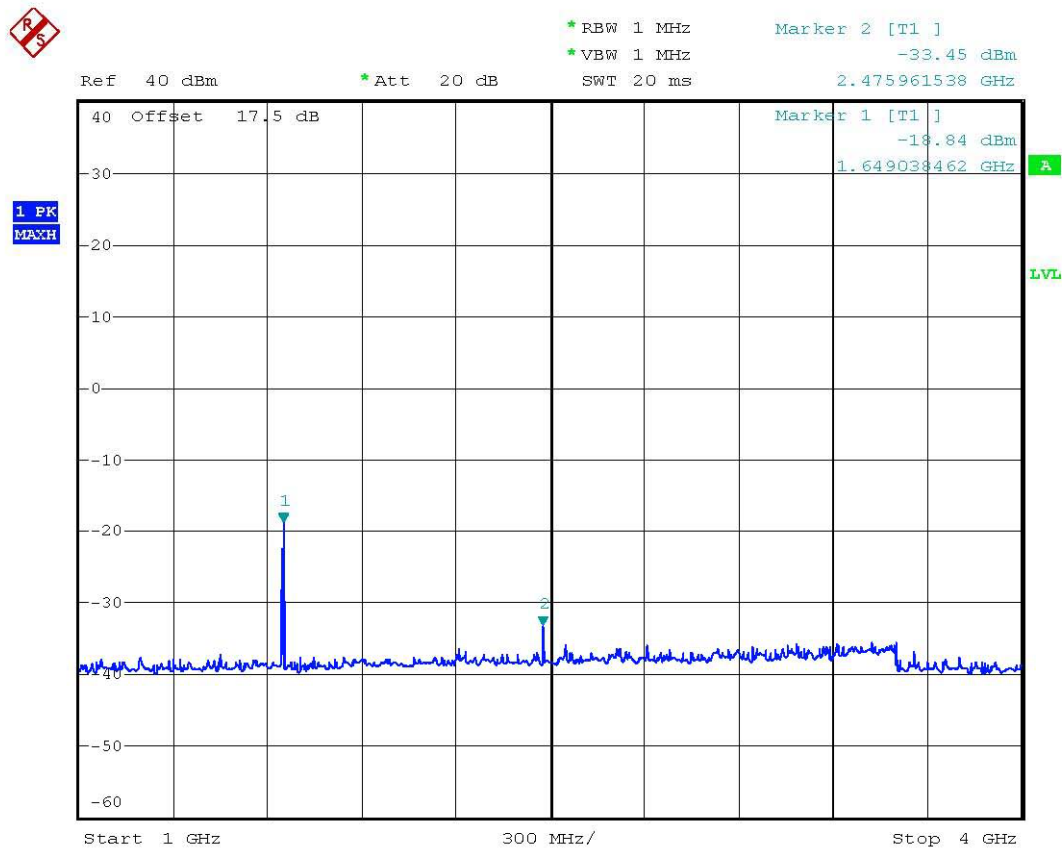
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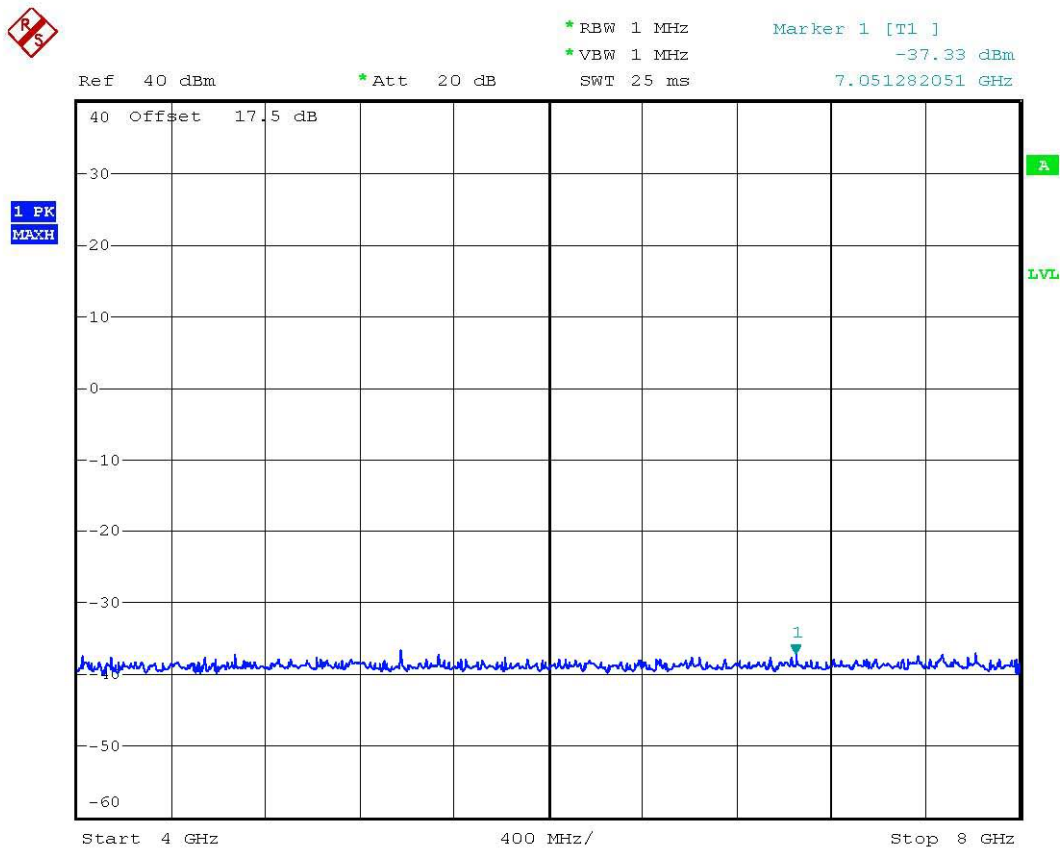
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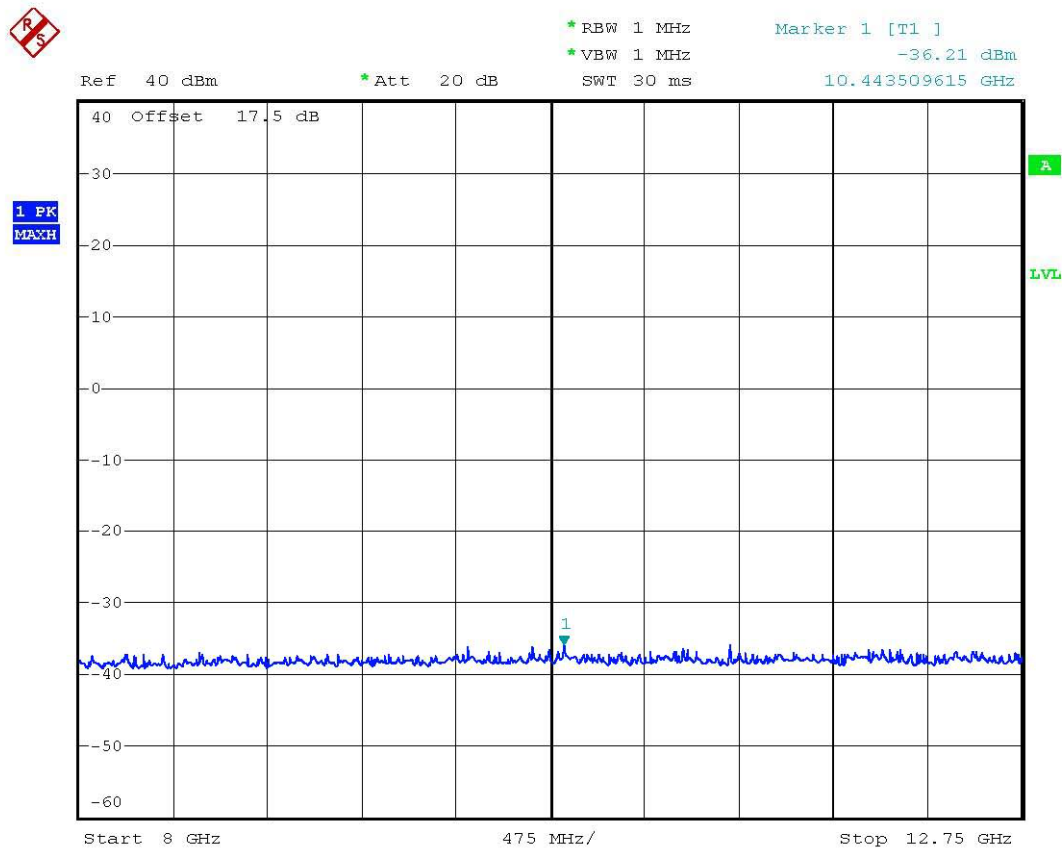
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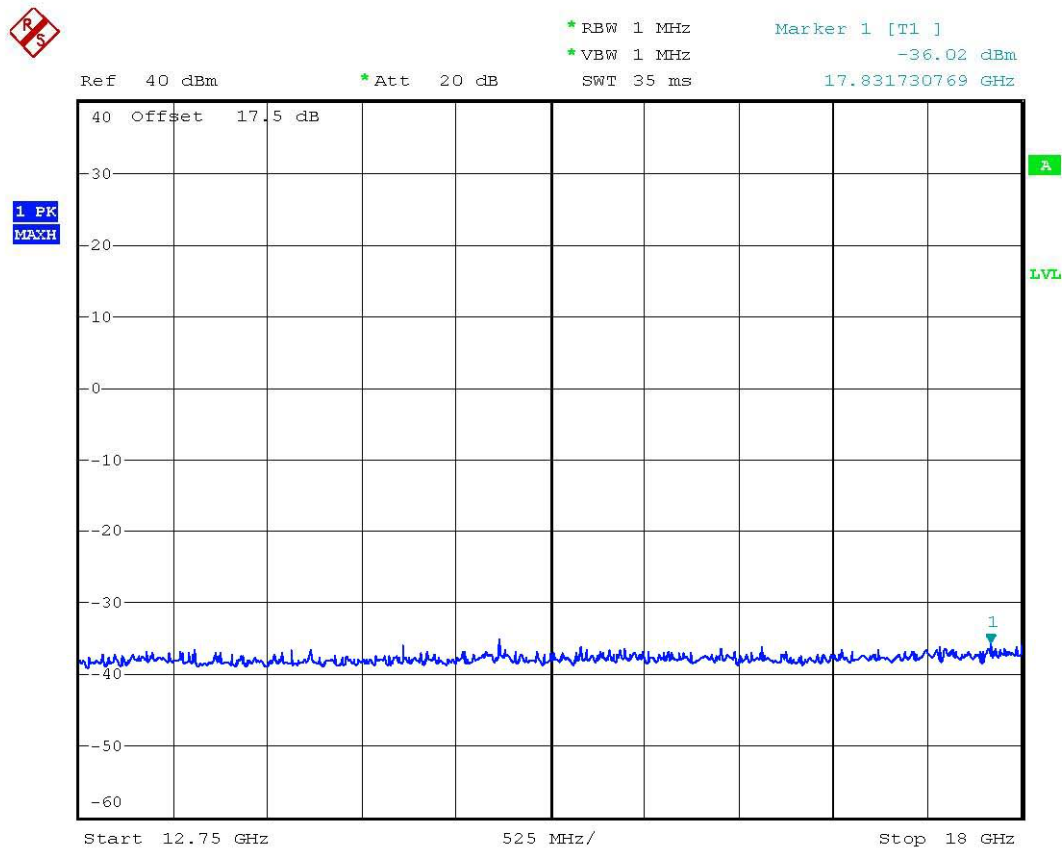
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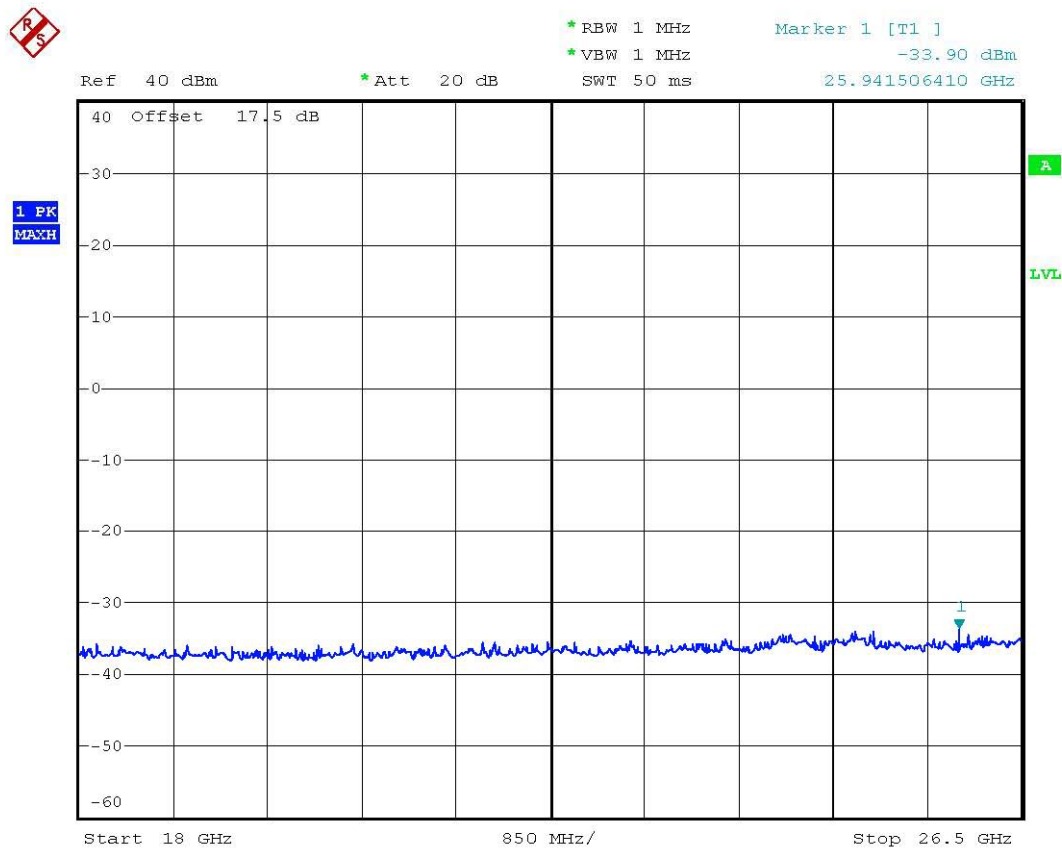
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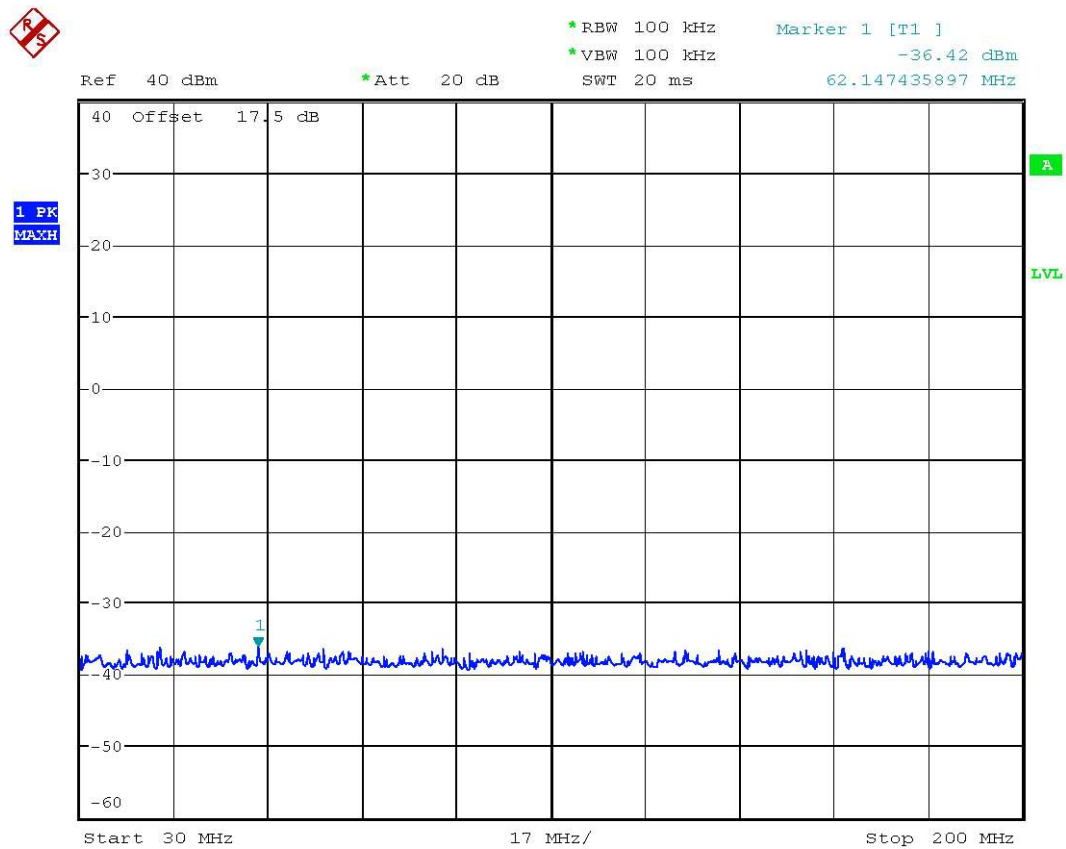
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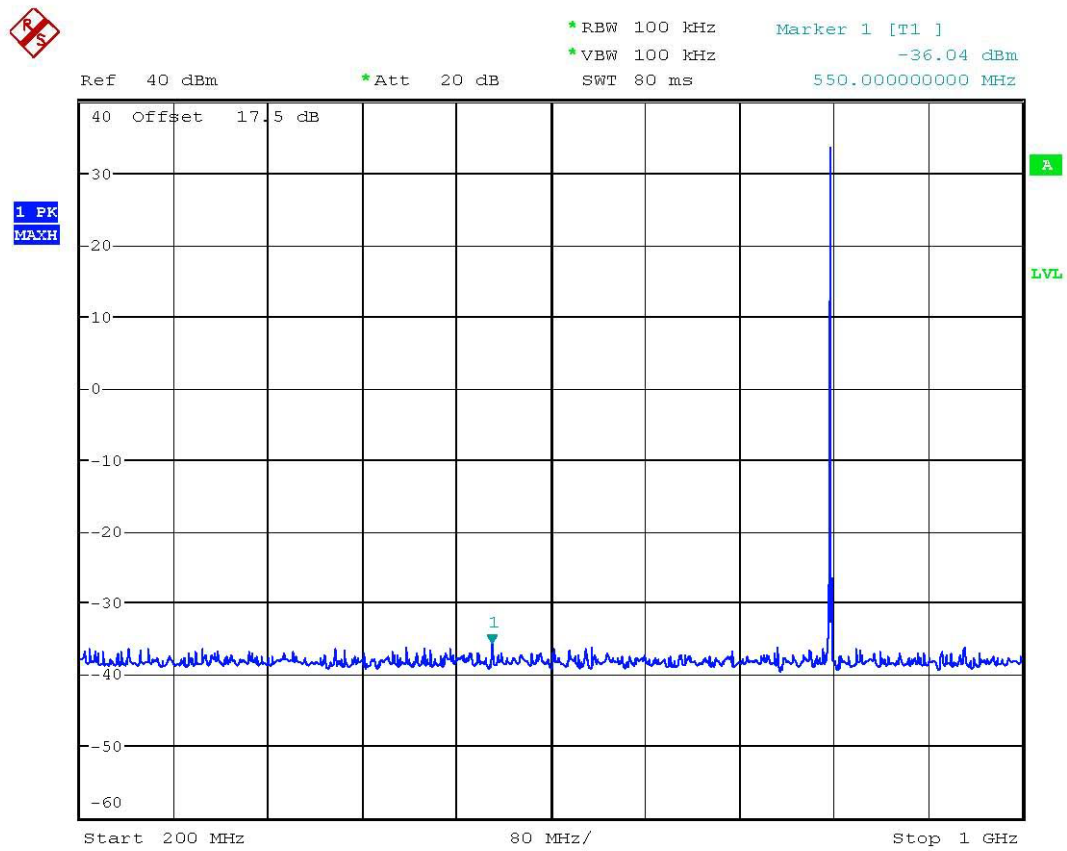
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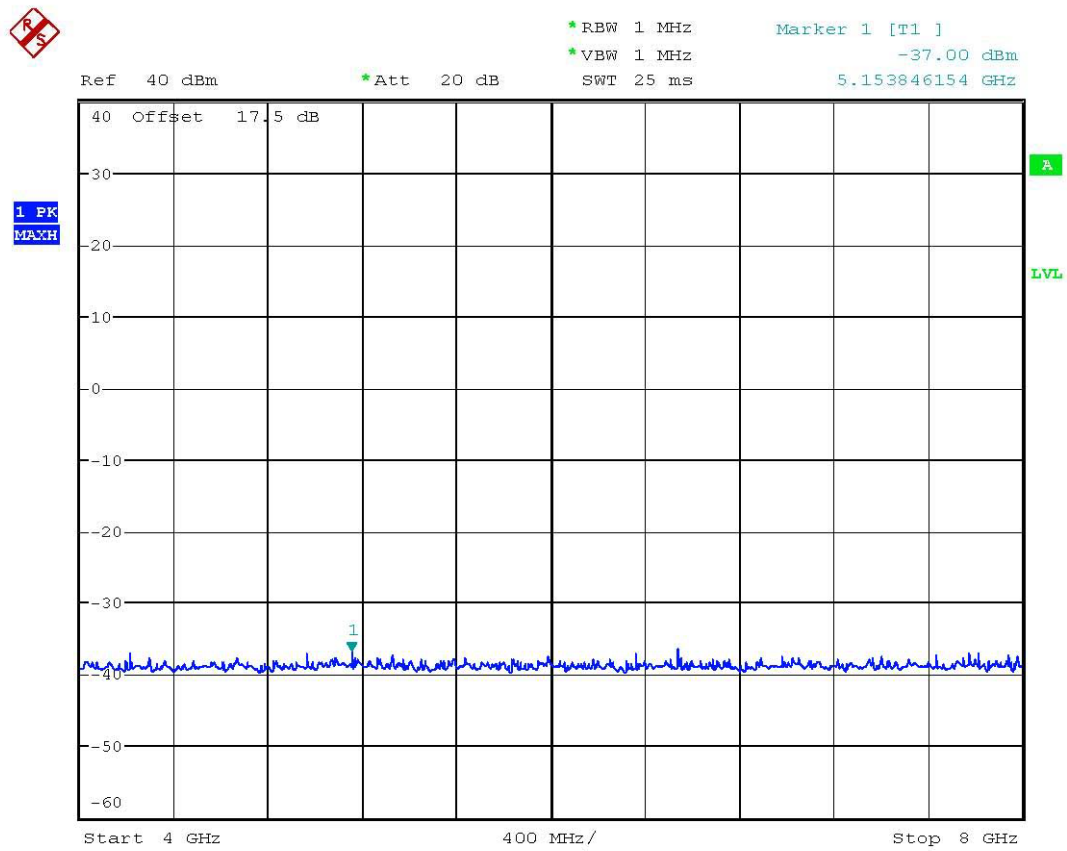
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Date: 19.JUL.2007 13:36:22

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Date: 19.JUL.2007 13:37:01

Registration number: W6D20707-8368-P-22/24
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