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FCC Test Report

Report No.: AGC01173160901FE02

FCC ID : 2AASJSMD-1770A

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Mobile Phone

BRAND NAME : DAEWOO

MODEL NAME : SMD-1770A

CLIENT : Daewoo International Corp.

DATE OF ISSUE : Oct. 10, 2016

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 22H & 24E Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 10, 2016	Valid	Original Report

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1. VERIFICATION OF COMPLIANCE

Applicant	Daewoo International Corp.
Address	84-11, Namdaemunno 5-ga, Jung-gu, Seoul 100-753 Korea
Manufacturer	United Creation Technology Corp., Ltd.
Address	Room 201, Block A, Science and Technology Building Phase-II, Nanhai Road
	1057, Shekou, Nanshan District, Shenzhen, CN.
Product Designation	Mobile Phone
Brand name	DAEWOO
Test Model	SMD-1770A
Date of test	Sep. 22, 2016~Sep.30, 2016
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-2.5G/RF

WE HEREBY CERTIFY THAT:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA- 603-D-2010. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E.

The test results of this report relate only to the tested sample identified in this report.

Tested By	Vota Zhang		
	Dota Zhang(Zhang Jianfeng)	Oct. 10, 2016	
Reviewed By	Bore xie		
	Bart Xie(Xie Xiaobin)	Oct. 10, 2016	
Approved By	Solya Hong		
	Solger Zhang(Zhang Hongyi)	Oct. 10, 2016	
	Authorized Officer	Oct. 10, 2010	

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2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

This jet to similar accompanies a construction of the construction				
Product Designation:	Mobile Phone			
Hardware Version:	5777-MB-V2.1			
Software Version:	N/A			
Frequency Bands:	⊠GSM 850 ⊠PCS 1900 (U.S. Bands)			
	☐ GSM 900 ☐ DCS 1800 (Non-U.S. Bands)			
Antenna:	PIFA Antenna			
Type of Modulation	GSM / GPRS : GMSK			
Antenna gain:	1.0dBi			
Battery parameter:	DC3.7V/600mAh			
Adapter Input:	AC100-240V, 50-60Hz, 0.12A			
Adapter Output:	DC5.0V, 500mA			
	30.13 dBm Maximum ERP measured for GSM 850			
	31.46 dBm Maximum Average Burst Power for GSM 850			
Output Power:	28.04 dBm Maximum EIRP measured for PCS 1900			
	28.23 dBm Maximum Average Burst Power for PCS 1900			
Dual SIM Card:	The result for SIM1 is the worst case which was only recorded			
GPRS Class:	12			
Extreme Vol. Limits:	DC 3.4 V to DC4.2 V (Nominal DC 3.7 V)			
Extreme Temp. Tolerance:	-10℃ to +50℃			

^{**} Note: 1.The High Voltage DC 4.2V and Low Voltage DC 3.4V were declared by manufacturer,

The EUT could not operate normally with higher or lower voltage.

- 2. Other functions have been performed according to verification procedure except for MS function.
- 3. SIM1 and SIM2 can't transmit simultaneously.

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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AASJSMD-1770A** filing to comply with the FCC Part 22H and 24E requirements.

2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI/TIA-603-D-2010, and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

KDB 971168 D01 Power Meas License Digital Systems v02r02

2.4 TEST FACILITY

Site Dongguan Precise Testing Service Co., Ltd.	
Location Building D,Baoding Technology Park,Guangming Road2,Dongcheng Distri	
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents of ANSI/TIA-603-D-2010.

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2.5 MEASUREMENT INSTRUMENTS

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9168	D69250	Mar 1, 2016	Feb 28, 2017
Trilog Broadband Antenna(substituted antenna) (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 5, 2016	June 4, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 5, 2016	June 4, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 5, 2016	June 4, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 10, 2016	July 9, 2017
Horn Antenna(substituted antenna) (1G-18GHz)	ETS LINDGREN	3117	00034609	Mar 1, 2016	Feb 28, 2017
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 3, 2016	July 2, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 6, 2016	July 5, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 7, 2016	July 6, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 5, 2016	June 4, 2017
Artificial Mains Network	Narda	L2-16B	000WX31025	July 7, 2016	July 6, 2017
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 7, 2016	July 6, 2017
RF Cable	SCHWARZBECK	AK9515E	96222	July 3, 2016	July 2, 2017
Shielded Room	CHENGYU	843	PTS-002	June 5, 2016	June 4, 2017
COMMUNICATION TESTER	AGILENT	8960	GB46490550	July 24,2016	July 23, 2017
RF attenuator	N/A	RFA20db	68	N/A	N/A
Signal Generator	AGILENT	N5182A	MY50140530	Oct 16,2015	Oct 15,2016
Signal Generator(substituted equipment)	AGILENT	E8257D	MY45141029	Oct 16,2015	Oct 15,2016

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2.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. SYSTEM TEST CONFIGURATION

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

3.3 GENERAL TECHNICAL REQUIREMENTS

Item Number	Ite	FCC Rules		
1	Output Dower	Conducted	22.913(a) / 24.232 (b)	
'	Output Power	Radiated		
2	Peak-to-Average	Dook to Average Retio	24.232(d)	
2	Ratio	Peak-to-Average Ratio		
	Spurious	Conducted Spurious Emission	2.1051 / 22.917 / 24.238	
3	Emission	Radiated Spurious Emission		
4	Mains Conducted E	mission	15.107 / 15.207	
5	Frequency Stability	Frequency Stability		
6	Occupied Bandwidth		2.1049 (h)(i)	
7	Emission Bandwidth		22.917(b) / 24.238 (b)	
8	Band Edge		22.917(b) / 24.238 (b)	

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3.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Mobile Phone	SMD-1770A	2AASJSMD-1770A	EUT
2	Battery	SMD-1770A	DC 3.7V/ 600mAH	Accessory
3	Adapter	SMD-1770A	DC 5.0V/ 500mA	Accessory
4	Earphone	SMD-1770A	N/A	Accessory
5	USB Cable	SMD-1770A	N/A	Accessory

Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

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4. SUMMARY OF TEST RESULTS

Item Number	It	em Description	FCC Rules	Result
4	Output Dawar	Conducted Output Power	00.040(-) / 04.000 (b)	Pass
1	Output Power	Radiated Output Power	22.913(a) / 24.232 (b)	
2	Peak-to-Average	Dook to Average Datio	24 222(4)	Pass
2	Ratio	Peak-to-Average Ratio	24.232(d)	
	Courious Emission	Conducted Spurious Emission	2.4054/22.047/.24.220	Pass
3	Spurious Emission	Radiated Spurious Emission	2.1051/22.917/ 24.238	
4	Mains	Conducted Emission	15.107 / 15.207	Pass
5	Frequency Stability		2.1055 /24.235	Pass
6	Occupied Bandwidth		2.1049 (h)(i)	Pass
7	Emission Bandwidth		22.917(b) / 24.238 (b)	Pass
8	Band Edge		22.917(b) / 24.238 (b)	Pass

5. DESCRIPTION OF TEST MODES

During the testing, the EUT (Quad-band GSM / GPRS Mobile Phone) was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GSM and PCS frequency band.

Note: 1. GSM and GPRS modes have been tested during the test. The worst condition (GSM) be recorded in the test report if no other modes test data.

- 2. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions
- 3. All antenna port conducted emissions testing was performed on a test bench with the antenna Port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

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6. OUTPUT POWER

6.1 CONDUCTED OUTPUT POWER

6.1.1 MEASUREMENT METHOD

The transmitter output port was connected to base station.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Measure the maximum burst average power and average power for other modulation signal.

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GSM, GPRS,) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for both GSM band and PCS band.

6.1.2 PROVISIONS APPLICABLE

Conducted Output Power Limits for GSM 850 MHz							
Mode	Mode Power Step Nominal Peak Power Tolerance(dB)						
GSM	5	33 dBm (2W)	-2				
GPRS	GPRS 3 33 dBm (2W) -2						

Conducted Output Power Limits for PCS 1900 MHz						
Mode Power Step Nominal Peak Power Tolerand						
GSM	0	30 dBm (1W)	-2			
GPRS	3	30 dBm (1W)	-2			

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6.1.3 MEASUREMENT RESULT

Test Result of Conducted Output Power for GSM 850 MHZ (SIM1)

Mode	Frequency	Reference	Peak	Tolerance	Avg.Burst	Duty cycle	Frame
Wode	(MHz)	Power	Power	Tolerance	Power	Factor(dB)	Power(dBm)
	824.2	33	32.35	-0.65	31.46	-9	22.46
GSM(SIM1)	836.6	33	31.92	-1.08	31.25	-9	22.25
	848.8	33	31.87	-1.13	31.27	-9	22.27
GPRS850	824.2	33	31.15	-1.85	30.13	-9	21.13
(1 Slot)	836.6	33	31.45	-1.55	30.16	-9	21.16
	848.8	33	31.26	-1.74	30.31	-9	21.31
GPRS850	824.2	30	29.34	-0.66	28.18	-6	22.18
(2 Slot)	836.6	30	29.29	-0.71	28.22	-6	22.22
	848.8	30	29.24	-0.76	28.33	-6	22.33
GPRS850	824.2	28.23	27.15	-1.08	26.19	-4.26	21.93
(3 Slot)	836.6	28.23	27.21	-1.02	26.17	-4.26	21.91
	848.8	28.23	27.37	-0.86	26.31	-4.26	22.05
GPRS850	824.2	27	26.63	-0.37	25.29	-3	22.29
(4 Slot)	836.6	27	26.34	-0.66	25.74	-3	22.74
	848.8	27	26.18	-0.82	25.55	-3	22.55

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Test Result of Conducted Output Power for PCS 1900 MHZ (SIM1)

Mode	Frequency (MHz)	Reference Power	Peak Power	Tolerance	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
	1850.2	30	29.05	-0.95	28.23	-9	19.23
GSM(SIM1)	1880	30	28.79	-1.21	28.15	-9	19.15
	1909.8	30	28.96	-1.04	28.14	-9	19.14
CDDC1000	1850.2	30	28.51	-1.49	27.52	-9	18.52
GPRS1900	1880	30	28.32	-1.68	27.33	-9	18.33
(1 Slot)	1909.8	30	28.59	-1.41	27.29	-9	18.29
CDDC4000	1850.2	27	26.37	-0.63	25.61	-6	19.61
GPRS1900	1880	27	26.28	-0.72	25.57	-6	19.57
(2 Slot)	1909.8	27	26.16	-0.84	25.33	-6	19.33
CDDC1000	1850.2	25.23	24.13	-1.1	23.18	-4.26	18.92
GPRS1900	1880	25.23	24.51	-0.72	23.22	-4.26	18.96
(3 Slot)	1909.8	25.23	24.33	-0.9	23.34	-4.26	19.08
GPRS1900	1850.2	24	23.22	-0.78	22.17	-3	19.17
	1880	24	23.32	-0.68	22.64	-3	19.64
(4 Slot)	1909.8	24	23.16	-0.84	22.36	-3	19.36

Test Result of Conducted Output Power for GSM 850 MHZ and PCS 1900 MHz(SIM 2)						
Mode	Maximum Conducted Power(dBm)	Average Burst Power(dBm)	Duty cycle Factor (dB)	Frame Power (dBm)		
GSM 850 MHZ for (SIM2)	31.83	31.08	-9	22.08		
PCS 1900 MHZ for (SIM2)	28.71	27.97	-9	18.97		

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6.2 RADIATED OUTPUT POWER

6.2.1 MEASUREMENT METHOD

The measurements procedures specified in ANSI/TIA-603-D-2010 were applied.

- 1. Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signal operating below 1GHz are performed using dipole antennas. Measurements on signals operating above 1GHz are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT operating at its maximum duty cycle, at maximum power, and at the approximate frequencies.
- 2. In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.
- 3. The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as ARpl=Pin + 2.15 Pr. The ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl
- 4. The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
- 5. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
- 6. The EUT is then put into continuously transmitting mode at its maximum power level.
- 7. Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.
- 8. This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).
- 9. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

6.2.2 PROVISIONS APPLICABLE

This is the test for the maximum radiated power from the EUT. Rule Part 24.232(b) 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 "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

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Radiated Power Limits for GSM 850 MHZ (ERP)					
Mode Power Step Nominal Peak Power					
GSM	5	<=38.45 dBm (7W)			
GPRS	3	<=38.45 dBm (7W)			

Radiated Power Limits for PCS 1900 MHZ (E.I.R.P.)					
Mode Power Step Nominal Peak Power					
GSM	0	<=33 dBm (2W)			
GPRS	3	<=33 dBm (2W)			

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6.2.3 MEASUREMENT RESULT

	Radiated Power (ERP) for GSM 850 MHZ								
			Res						
Mode	Frequency	Power Step	Max. Peak ERP	Polarization	Conclusion				
			(dBm)	Of Max. ERP					
	824.2	5	30.13	Horizontal	Pass				
GSM	836.6	5	30.04	Horizontal	Pass				
	848.8	5	30.09	Horizontal	Pass				
CDDC	824.2	3	29.88	Horizontal	Pass				
GPRS 1 slot	836.6	3	29.81	Horizontal	Pass				
1 5101	848.8	3	29.95	Horizontal	Pass				
GPRS	824.2	3		Horizontal	Pass				
2 slots	836.6	3		Horizontal	Pass				
2 51015	848.8	3		Horizontal	Pass				
CDDC	824.2	2	l and then	Horizontal	Pass				
GPRS 3 slots	836.6	2	Less than 27 dBm	Horizontal	Pass				
3 81018	848.8	2	27 UDIII	Horizontal	Pass				
CDDC	824.2	2		Horizontal	Pass				
GPRS 4 slots	836.6	2		Horizontal	Pass				
4 81018	848.8	2		Horizontal	Pass				

	Radiated Power (E.I.R.P) for PCS 1900 MHZ							
			Re					
Mode	Frequency	Power Step	Max. Peak	Polarization	Conclusion			
			E.I.R.P.(dBm)	Of Max. E.I.R.P.				
	1850.2	0	28.04	Horizontal	Pass			
GSM	1880.0	0	28.02	Horizontal	Pass			
	1909.8	0	27.94	Horizontal	Pass			
GPRS	1850.2	3	27.95	Horizontal	Pass			
1slot	1880.0	3	27.83	Horizontal	Pass			
15101	1909.8	3	27.88	Horizontal	Pass			
GPRS	1850.2	3		Horizontal	Pass			
2 slots	1880.0	3		Horizontal	Pass			
2 51015	1909.8	3		Horizontal	Pass			
GPRS	1850.2	2	Less than	Horizontal	Pass			
3 slots	1880.0	2	27 dBm	Horizontal	Pass			
3 31013	1909.8	2	27 00111	Horizontal	Pass			
GPRS	1850.2	2		Horizontal	Pass			
4 slots	1880.0	2		Horizontal	Pass			
4 31013	1909.8	2		Horizontal	Pass			

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7. PEAK-TO-AVERAGE RATIO

7.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

PAPR (dB) = PPk (dBm) - PAvg (dBm).

7.2 PROVISIONS APPLICABLE

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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7.3 MEASUREMENT RESULT

Modes	GSM850(GSM)			
Channel	128	190	251	
Shamo!	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.6	848.8	
Peak-To-Average Ratio (dB)/GSM	0.89	0.67	0.60	

Modes	PCS 1900 (GSM)			
Channel	512	661	810	
onaor	(Low)	(Mid)	(High)	
Frequency	1850.2	1880	1909.8	
(MHz)	1000.2			
Peak-To-Average Ratio (dB)/GSM	0.82	0.64	0.82	

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8. OCCUPIED BANDWIDTH

8.1 TEST OVERVIEW

1. The Occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper Frequency limits, the mean power radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

2. RBW=1~5% of the expected OBW, VBW>=3 x RBW, Detector=Peak, Trace mode=max hold, Sweep=auto couple, and the trace was allowed to stabilize.

8.2 PROVISIONS APPLICABLE

The occupied bandwidth (99%) shall not exceed 300 KHz.

8.3 MEASUREMENT RESULT

Appendix A: BandWidth

Test Results

Test Band	Test	Test	Occupied Bandwidth	Emission Bandwidth	Verdict
	Mode	Channel	(MHZ)	(MHZ)	
		LCH	0.2467	0.3207	PASS
GSM850	GSM	MCH	0.2436	0.3158	PASS
		HCH	0.2488	0.3178	PASS

Test Band	Test	Test	Occupied Bandwidth	Emission Bandwidth	Verdict
	Mode	Channel	(MHZ)	(MHZ)	
		LCH	0.2470	0.3229	PASS
GSM1900	GSM	MCH	0.2516	0.3199	PASS
		HCH	0.2489	0.3154	PASS

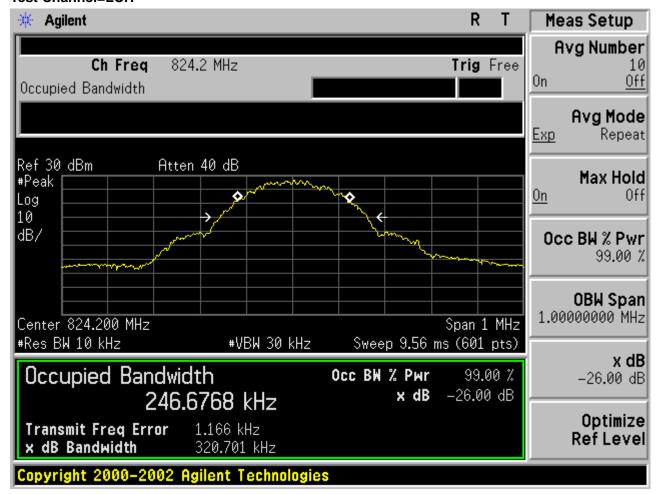
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For GSM

Test Band=GSM850

Test Mode=GSM

Test Channel=LCH



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Test Channel=MCH



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Test Channel=HCH



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Test Band=GSM1900

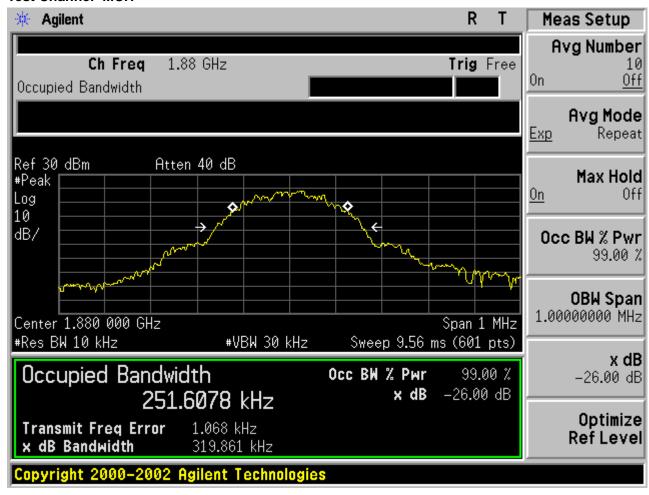
Test Mode=GSM

Test Channel=LCH



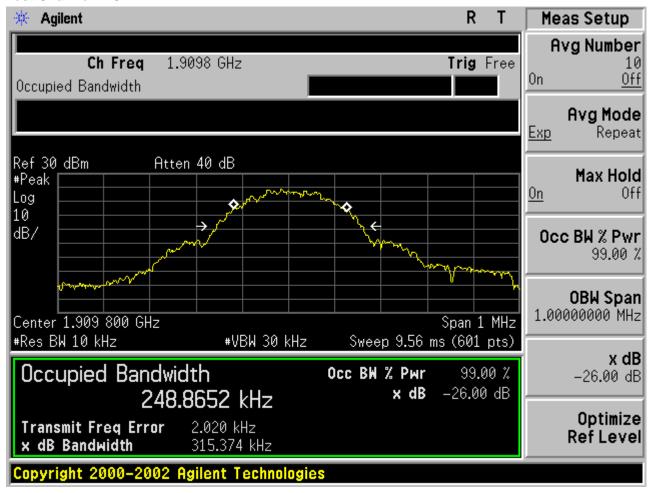
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Test Channel=MCH



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Test Channel=HCH



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9. BAND EDGE

9.1 MEASUREMENT METHOD

- 1. All out of band emissions are measured with an analyzer spectrum connected to the antenna terminal of the EUT while the EUT at its maximum duty cycle, at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration
- 2. The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.
- 3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
- 4. Span was set large enough so as to capture all out of band emissions near the band edge.
- 5. RBW>1% of the emission bandwidth, VBW >=3 x RBW, Detector=RMS, Number of points>=2 x Span/RBW, Trace mode=max hold, Sweep time=auto couple, and the trace was allowed to stabilize

9.2 PROVISIONS APPLICABLE

As Specified in FCC rules of 22.917(b) and 24.238(b) and KDB 971168 V02r02

9.3 MEASUREMENT RESULT

APPENDIX B: BAND EDGES COMPLIANCE

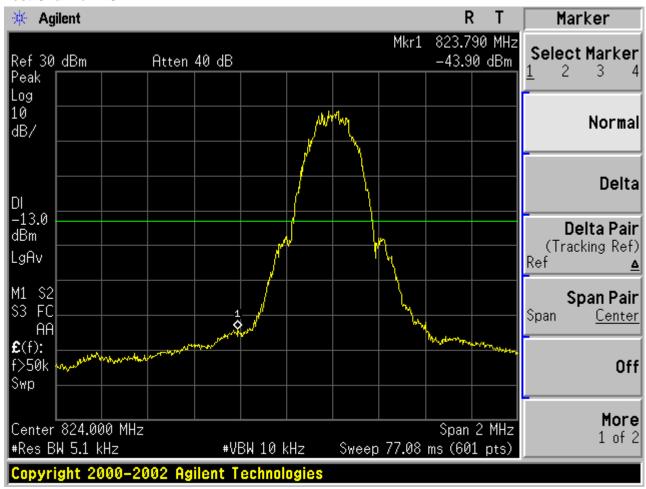
Test Results

For GSM

Test Band=GSM850

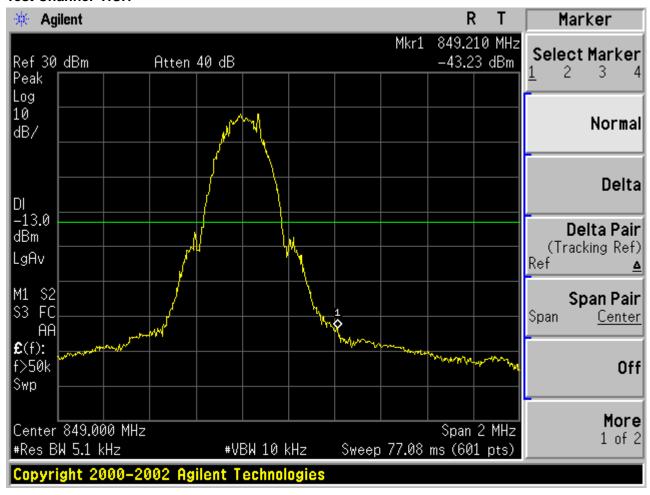
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Test Mode=GSM
Test Channel=LCH



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Test Channel=HCH

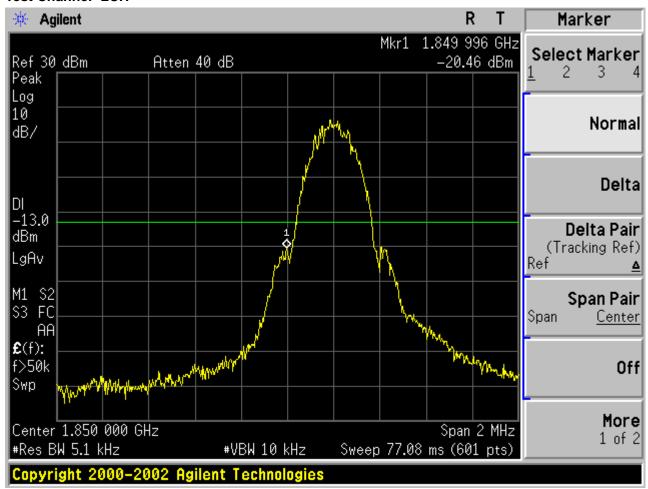


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Test Band=GSM1900

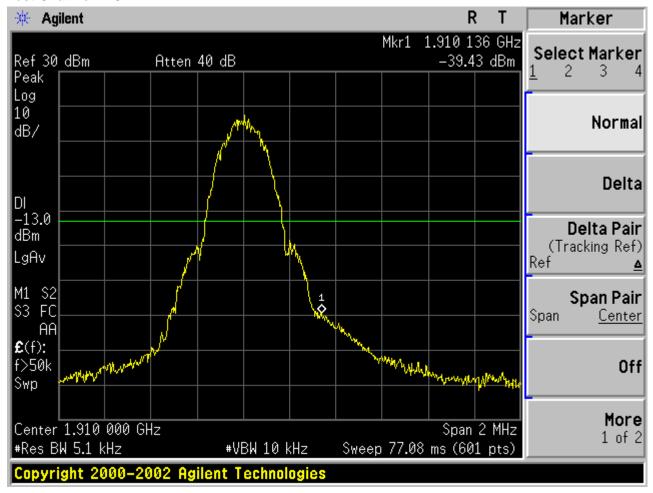
Test Mode=GSM

Test Channel=LCH



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Test Channel=HCH



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10. SPURIOUS EMISSION

10.1 CONDUCTED SPURIOUS EMISSION

10.1.1 MEASUREMENT METHOD

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

- 1. The level of the carrier and the various conducted spurious and harmonic frequency is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration.
- 2. 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 equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM 850, data taken from 30 MHz to 9 GHz.
- 3. Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

Typical Channels for testing of GSM 850 MHz	
Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

Typical Channels for testing of PCS 1900 MHz	
Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

10.1.2 PROVISIONS APPLICABLE

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

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10.1.3 MEASUREMENT RESULT

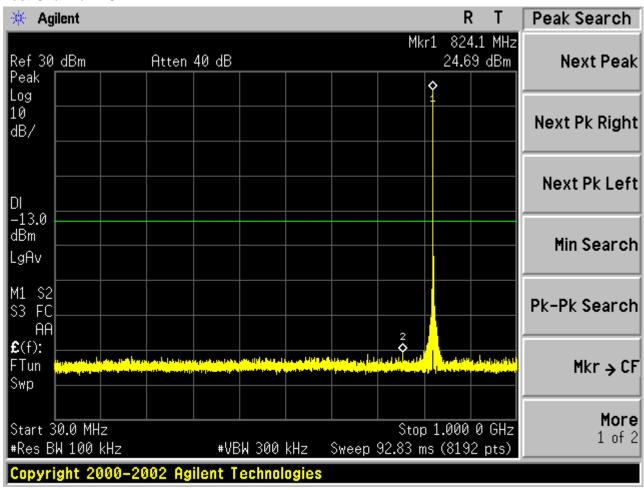
APPENDIX C: SPURIOUS EMISSION AT ANTENNA TERMINAL

Test Results

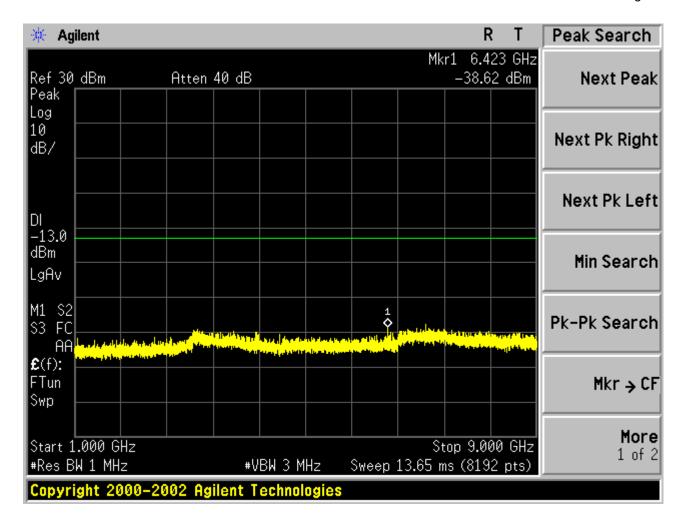
Test Band=GSM850

Test Mode=GSM

Test Channel=LCH

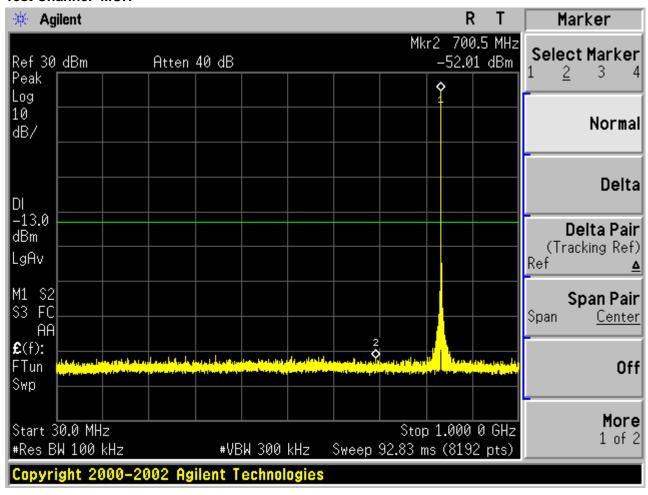


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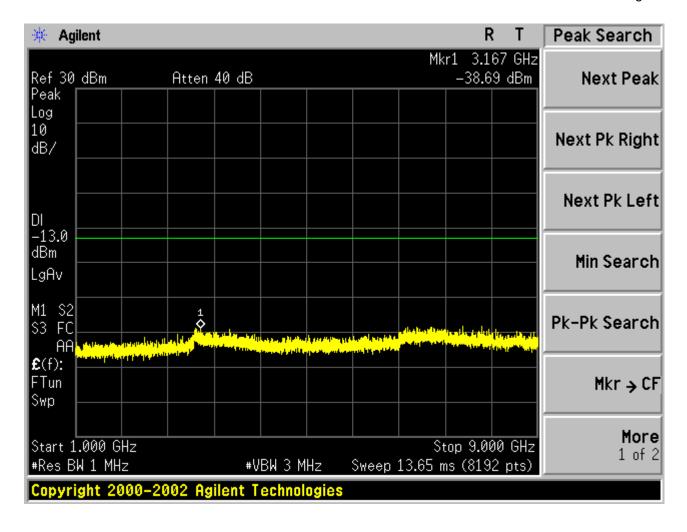


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Test Channel=MCH

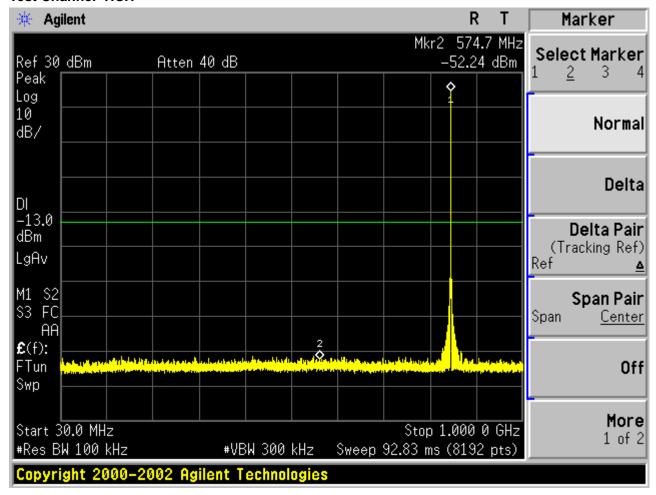


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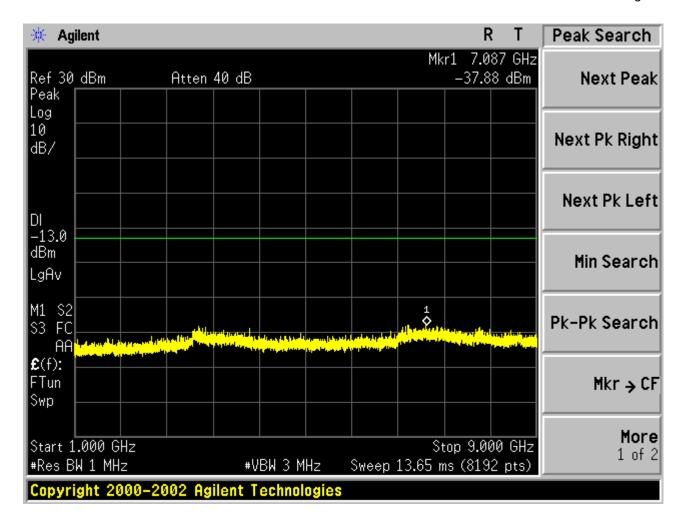


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Test Channel=HCH



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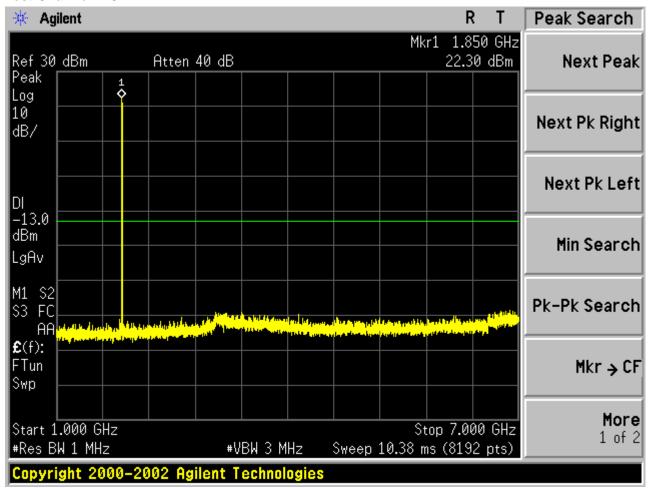


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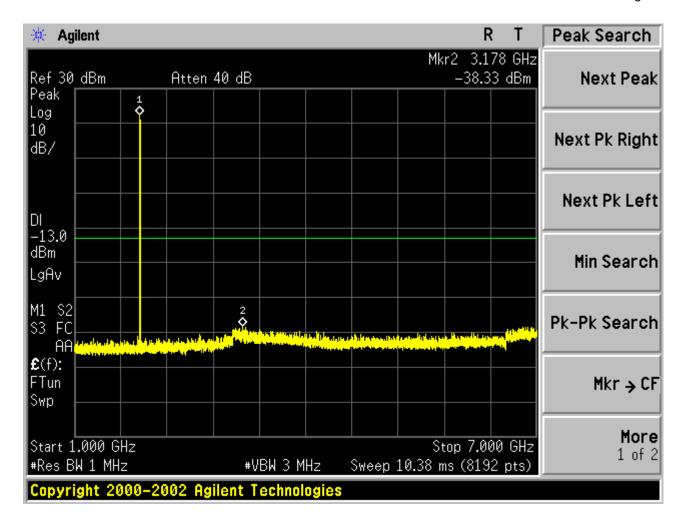
Test Band=GSM1900

Test Mode=GSM

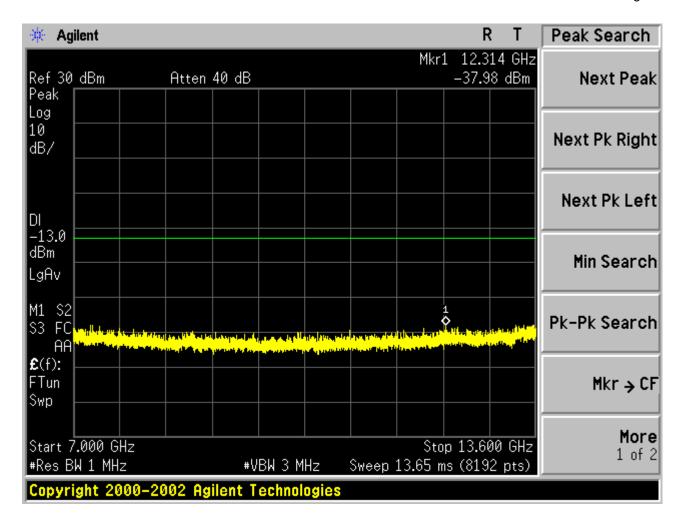
Test Channel=LCH



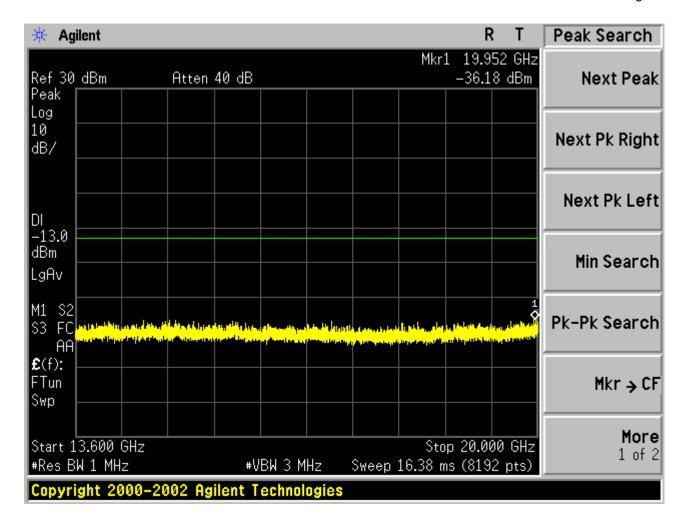
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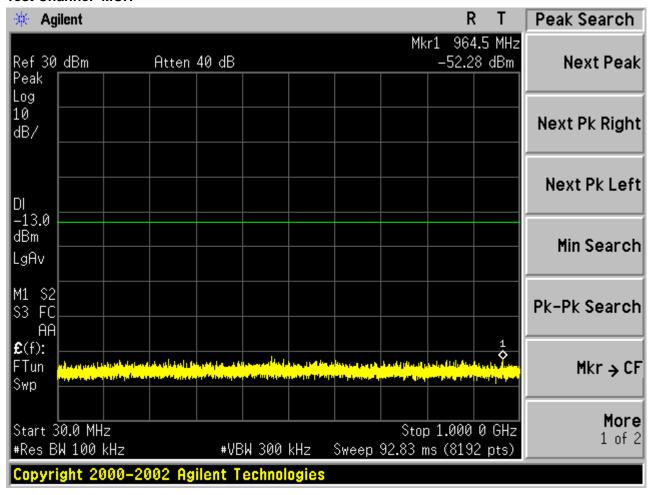


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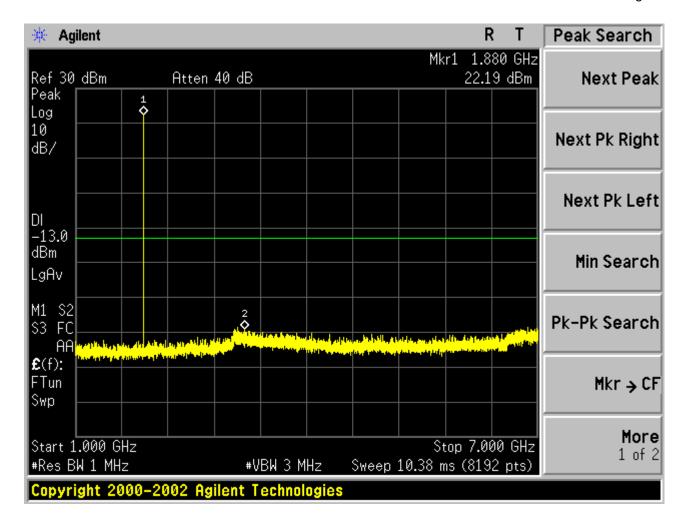


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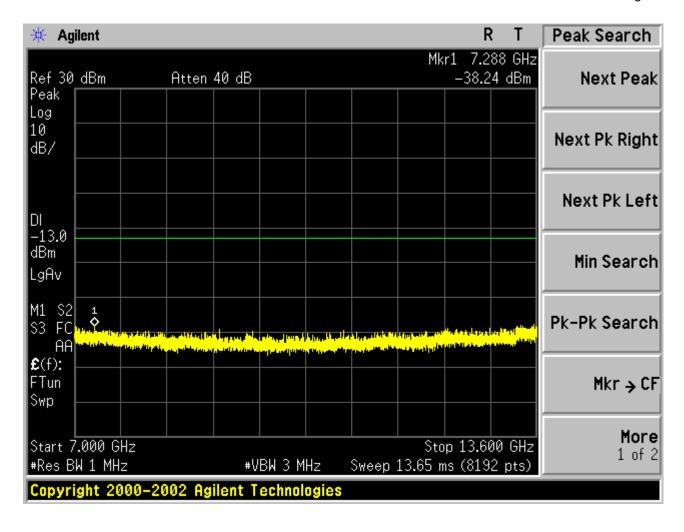
Test Channel=MCH



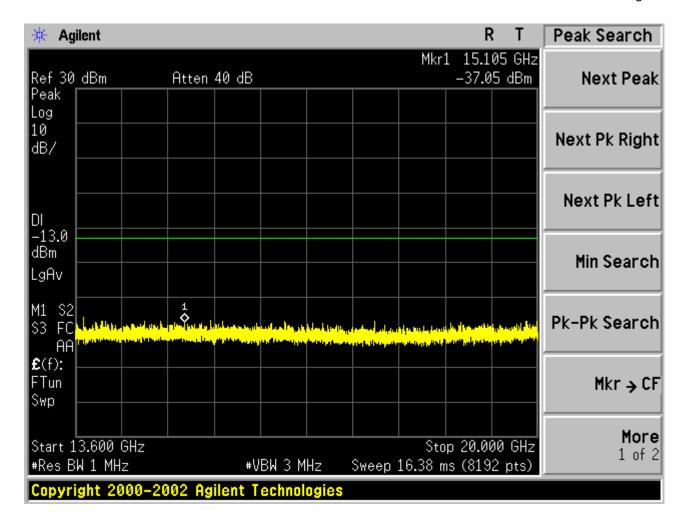
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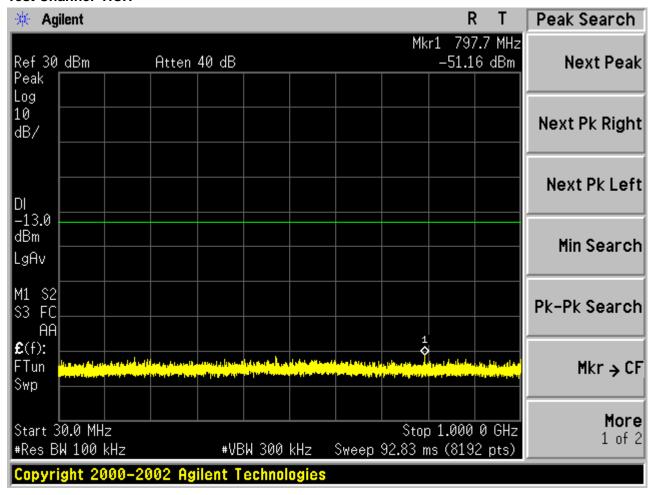


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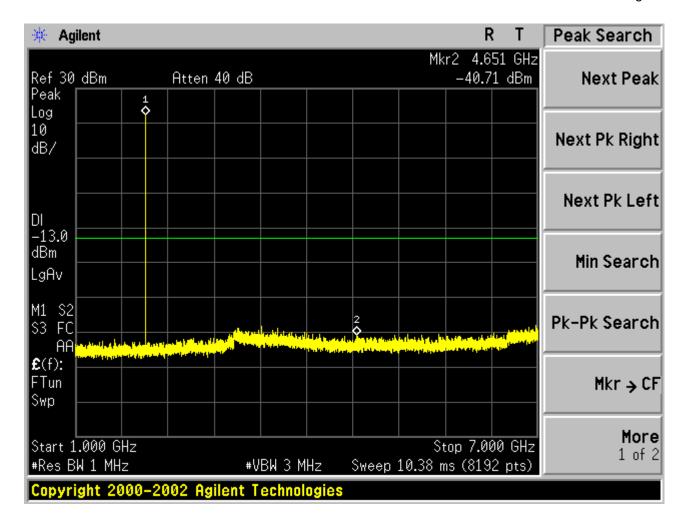


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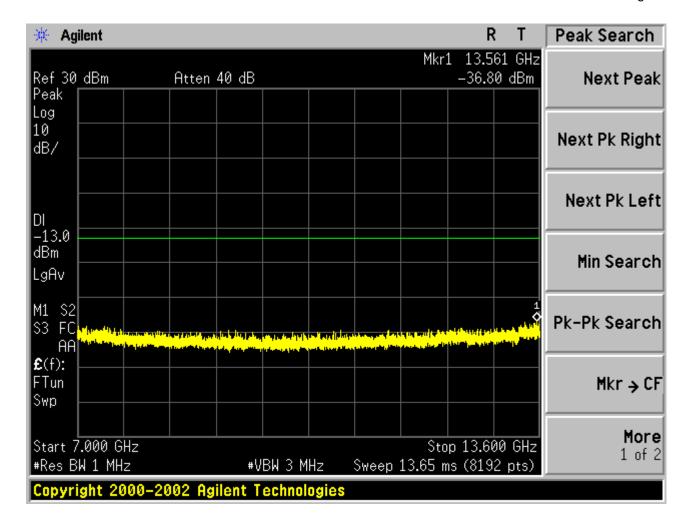
Test Channel=HCH



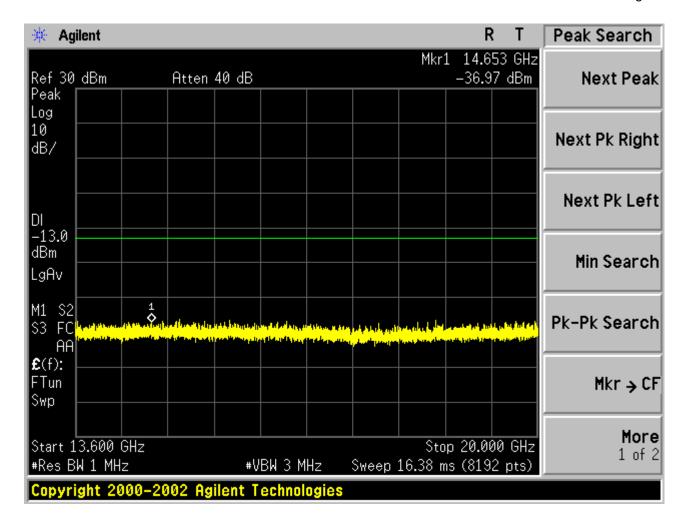
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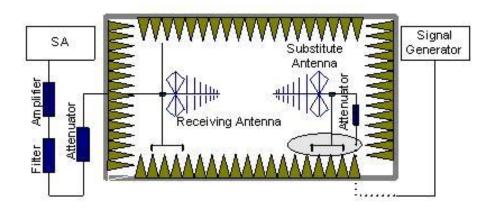
10.2 RADIATED SPURIOUS EMISSION

10.2.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603-D-2010 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GSM, GPRS) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for both GSM band and PCS band.

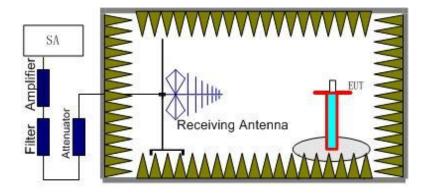
The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx(dBuV)+CL(dB)+SA(dB)+Gain(dBi)-107(dBuV to dBm) The SA is calibrated using following setup.



b) EUT was placed on a 0.8 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 test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item 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 and 1MHz bandwidth.

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Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS band (1850.2 MHz, 1880 MHz and 1909.8 MHz) ,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 substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=P_{Mea}+A_{Rpl}

10.2.2 PROVISIONS APPLICABLE

(a) On any frequency outside a IMOBOnsee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(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.

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10.2.3 MEASUREMENT RESULT

	The Worst Test Results for Channel 128 / 824.2 MHz										
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity						
1648.00	-42.48	-5.01	-47.49	-13.00	Horizontal						
1752.00	-43.71	-2.18	-45.89	-13.00	Vertical						
2472.00	-46.15	3.46	-42.69	-13.00	Horizontal						
9086.00	-42.15	2.79	-39.36	-13.00	Horizontal						

The Worst Test Results for Channel 190/836.6 MHz										
Frequency(MHz)	requency(MHz) Power(dBm)		PMea(dBm)	Limit (dBm)	Polarity					
1673.00	-45.27	-3.22	-48.49	-13.00	Horizontal					
1903.00	-46.11	-0.24	-46.35	-13.00	Vertical					
9089.00	-42.63	3.98	-38.65	-13.00	Vertical					

	The Worst Test Results for Channel 251/848.8 MHz										
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit(dBm)	Polarity						
1698.00	-43.43	-2.26	-45.69	-13.00	Horizontal						
1888.50	-42.29	-3.12	-45.41	-13.00	Vertical						
2131.00	-44.47	-1.74	-46.21	-13.00	Vertical						
9089.00	-45.38	8.46	-36.92	-13.00	Horizontal						

The Worst Test Results for Channel 512/1850.2 MHz										
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity					
1999.00	-40.49	9.5	-30.99	-13.00	Horizontal					
3700.00	-43.27	8.74	-34.53	-13.00	Horizontal					
12950.40	-42.88	11.56	-31.32	-13.00	Vertical					
17919.60	-43.11	17.89	-25.22	-13.00	Vertical					

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	The Worst Tes	t Results for	Channel 661/1	1880.0 MHz	
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
2000.50	-46.13	9.7	-36.43	-13.00	Vertical
9399.00	-46.18	11.6	-34.58	-13.00	Vertical
13160.40	-44.33	14.89	-29.44	-13.00	Horizontal
15039.60	-42.67	13.87	-28.80	-13.00	Vertical
17941.20	-42.51	19.76	-22.75	-13.00	Horizontal
	The Worst Tes	t Results for	Channel 810/1	1909.8 MHz	
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity
2000.00	-47.34	10.02	-37.32	-13.00	Vertical
9548.50	-45.42	11.3	-34.12	-13.00	Horizontal
13367.40	-46.19	12.4	-33.79	-13.00	Horizontal
15277.80	-51.28	18.03	-33.25	-13.00	Vertical
17931.60	-45.47	19	-26.47	-13.00	Horizontal

Note: ARpl= Factor=Antenna Factor+ Cable loss-Amplifier gain.

The "Factor" value can be calculated automatically by software of measurement system.

Below 30MHZ no Spurious found and The GSM modes is the worst condition.

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11. MAINS CONDUCTED EMISSION

11.1 MEASUREMENT METHOD

The measurement procedure specified in ANSI/TIA-603-D-2010 was used for testing. Conducted Emission was measured with travel charger.

11.2 PROVISIONS APPLICABLE

Frequency of Emission (MHz)	Conducted Limit(dBuV)			
	Quasi-Peak	Average		
0.15 – 0.5	66 to 56 *	56 to 46 *		
0.5 – 5	56	46		
5 – 30	60	50		

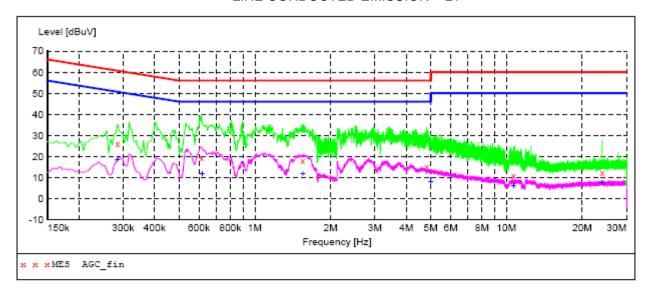
^{1.*}Decreases with the logarithm of the frequency.

^{2.*}The lower limit shall apply at the transition frequency.

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11.3 MEASUREMENT RESULT

LINE CONDUCTED EMISSION - L1



MEASUREMENT RESULT: "AGC fin"

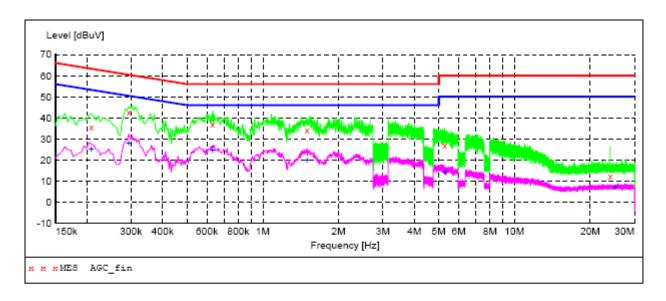
2016/9/28 10: Frequency		Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				SIAIE
0.285000 0.613500 1.549500 4.825500 10.684500 23.991000	25.90 19.40 18.20 14.90 11.00 12.20	10.3 10.3 10.4 10.6 10.8 11.9	61 56 56 56 60	34.8 36.6 37.8 41.1 49.0 47.8	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO	ON ON ON ON ON

MEASUREMENT RESULT: "AGC fin2"

2016/9/28	10:48							
Frequency	y Level	Transd	Limit	Margin	Detector	Line	PΕ	AUX
MH	z dBuV	dB	dBuV	dB				STATE
0.28500 0.61800		10.3 10.3	51 46	32.2 34.1	AV AV	L1 L1	FLO FLO	ON
1.54950 5.00550 10.68450 23.99100	0 7.80 0 5.90	10.4 10.6 10.8 11.9	46 50 50 50	34.2 42.2 44.1 42.7	AV AV AV AV	L1 L1 L1 L1	FLO FLO FLO	ON ON ON

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LINE CONDUCTED EMISSION - N



MEASUREMENT RESULT: "AGC fin"

2016/9/28 10:4 Frequency		Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.208500 0.294000 0.631500 1.500000 5.284500 24.000000	35.60 42.70 36.90 34.20 26.80 12.10	10.3 10.3 10.3 10.4 10.6 11.9	63 60 56 56 60	27.7 17.7 19.1 21.8 33.2 47.9	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO	ON ON ON ON ON

MEASUREMENT RESULT: "AGC fin2"

2016/9/28 10:	44							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ	AUX
MHz	dBuV	dB	dBuV	dB				STATE
0.208500 0.294000 0.631500 1.500000 5.284500 25.134000	25.00 28.10 24.70 19.80 14.30 7.10	10.3 10.3 10.3 10.4 10.6	53 50 46 46 50 50	28.3 22.3 21.3 26.2 35.7 42.9	AV AV AV AV AV	N N N N N	FLO FLO FLO FLO FLO	ON ON ON ON

Note: The GSM850 mode is the worst condition.

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12. FREQUENCY STABILITY

12.1 MEASUREMENT METHOD

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 -10℃.
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900, channel 190 for 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 -10°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring 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 -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9. At all temperature levels hold the temperature to $\pm -0.5^{\circ}$ C during the measurement procedure.

12.2 PROVISIONS APPLICABLE

12.2.1 For Hand carried battery powered equipment

According to the ANSI/TIA-603-D-2010, 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 3.4VDC and 4.2VDC, 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.

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12.2.2 For equipment powered by primary supply voltage

According to the ANSI/TIA-603-D-2010, 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.

12.3 MEASUREMENT RESULT

Appendix D: Frequency Stability

Test Results

Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict		
		LCH	TN	3.4	8.98	0.01	±2.5	PASS		
			TN	3.7	9.81	0.01	±2.5	PASS		
		TN	4.2	10.65	0.01	±2.5	PASS			
		мсн	вм мсн	TN	3.4	11.49	0.01	±2.5	PASS	
GSM 850	GSM			MCH	МСН	M MCH	TN	3.7	10.65	0.01
							TN	4.2	9.88	0.01
		НСН	TN	3.4	11.43	0.01	±2.5	PASS		
			TN	3.7	13.04	0.02	±2.5	PASS		
			TN	4.2	14.14	0.02	±2.5	PASS		

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict		
			LCH		TN	3.4	-11.04	-0.01	±2.5	PASS
				TN	3.7	12.72	0.01	±2.5	PASS	
		TN	4.2	-7.68	0.00	±2.5	PASS			
		TN	3.4	10.65	0.01	±2.5	PASS			
GSM 1900	GSM	HCH	SSM MCH	TN	3.7	6.13	0.00	±2.5	PASS	
			TN	4.2	12.85	0.01	±2.5	PASS		
			TN	3.4	8.01	0.00	±2.5	PASS		
			TN	3.7	-5.04	0.00	±2.5	PASS		
			TN	4.2	-11.56	-0.01	±2.5	PASS		

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Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp	(Hz)	(ppm)	(ppm	
)	
GSM850	GSM	LCH	VN	-10	9.23	0.01	±2.5	PASS
			VN	0	9.36	0.01	±2.5	PASS
			VN	10	10.01	0.01	±2.5	PASS
			VN	20	8.91	0.01	±2.5	PASS
			VN	30	8.98	0.01	±2.5	PASS
			VN	40	8.27	0.01	±2.5	PASS
			VN	50	10.91	0.01	±2.5	PASS
GSM850	GSM	МСН	VN	-10	13.95	0.02	±2.5	PASS
			VN	0	12.14	0.01	±2.5	PASS
			VN	10	8.98	0.01	±2.5	PASS
			VN	20	9.04	0.01	±2.5	PASS
			VN	30	8.65	0.01	±2.5	PASS
			VN	40	10.59	0.01	±2.5	PASS
			VN	50	12.53	0.01	±2.5	PASS
GSM850	GSM	НСН	VN	-10	11.49	0.01	±2.5	PASS
			VN	0	8.52	0.01	±2.5	PASS
			VN	10	11.62	0.01	±2.5	PASS
			VN	20	12.14	0.01	±2.5	PASS
			VN	30	8.39	0.01	±2.5	PASS
			VN	40	11.36	0.01	±2.5	PASS
			VN	50	12.66	0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp	(Hz)	(ppm)	(ppm	
)	
GSM 1900	GSM	LCH	VN	-10	10.46	0.01	±2.5	PASS
			VN	0	5.36	0.00	±2.5	PASS
			VN	10	9.49	0.01	±2.5	PASS
			VN	20	-10.91	-0.01	±2.5	PASS
			VN	30	9.94	0.01	±2.5	PASS
			VN	40	13.95	0.01	±2.5	PASS
			VN	50	13.88	0.01	±2.5	PASS
GSM 1900	GSM	МСН	VN	-10	-10.53	-0.01	±2.5	PASS
			VN	0	-11.04	-0.01	±2.5	PASS
			VN	10	-11.04	-0.01	±2.5	PASS
			VN	20	10.78	0.01	±2.5	PASS
			VN	30	9.88	0.01	±2.5	PASS
			VN	40	-10.78	-0.01	±2.5	PASS
			VN	50	9.43	0.01	±2.5	PASS
GSM 1900	GSM	НСН	VN	-10	-10.46	-0.01	±2.5	PASS
			VN	0	-12.98	-0.01	±2.5	PASS
			VN	10	-12.07	-0.01	±2.5	PASS
			VN	20	-11.95	-0.01	±2.5	PASS
			VN	30	-11.82	-0.01	±2.5	PASS
			VN	40	-10.59	-0.01	±2.5	PASS
			VN	50	9.75	0.01	±2.5	PASS

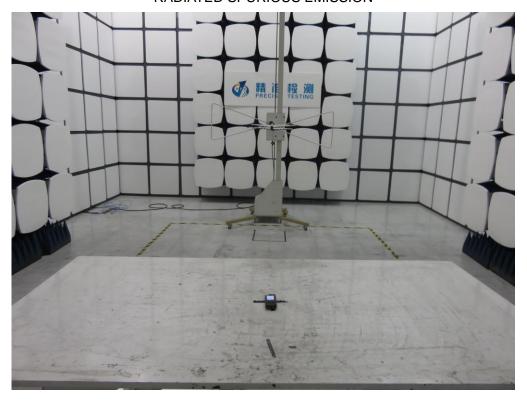
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PHOTOGRAPHS OF TEST SETUP

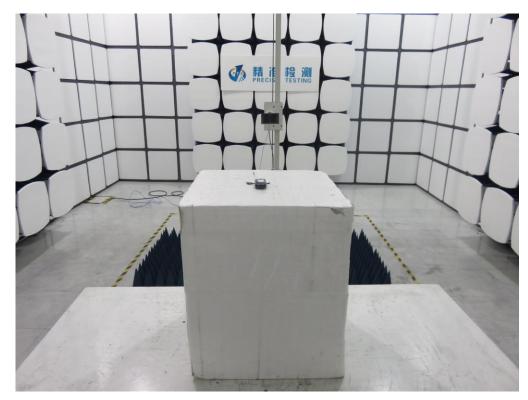
CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION



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CONDUCTED MEASUREMENTS



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PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



THE LABEL OF ADAPTER



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THE LABEL OF BATTERY



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT

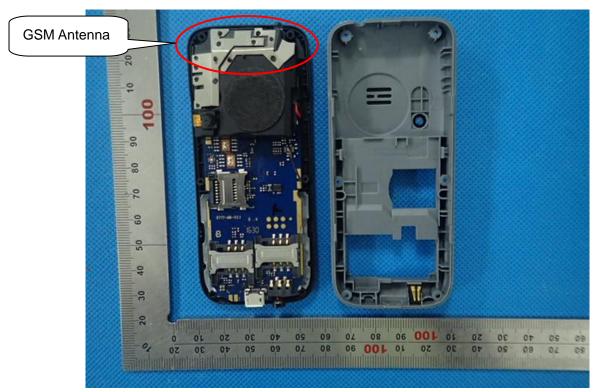


OPEN VIEW OF EUT-1



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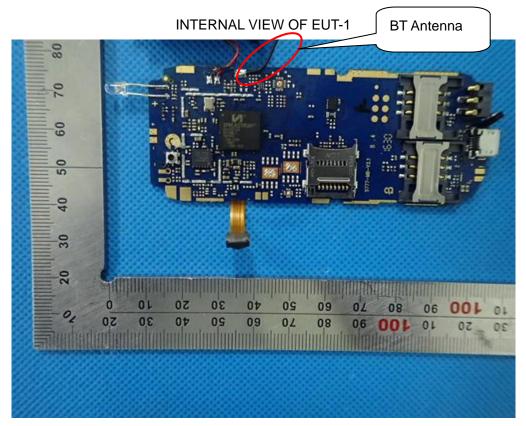
OPEN VIEW OF EUT-2



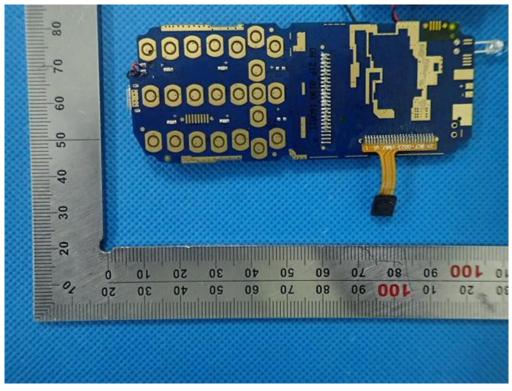
OPEN VIEW OF EUT-3



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INTERNAL VIEW OF EUT-2



----END OF REPORT----