



Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China

TEST REPORT

FCC ID: A2S2012CR108

Applicant: Cellrunners Distribution Corporation

Address : 1701 Green Road Suite H, Pompano Beach, FL 33064, USA

Equipment Under Test(EUT):

Name : MOBILE PHONE

Model : CR108

In Accordance with: FCC PART 2; FCC PART 22H; FCC PART 24E

Report No : STE120214101

Date of Test : Feb. 14--15, 2012

Date of Issue : Feb.16,2012

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

A handwritten signature in dark ink, appearing to read "Mark Zhu", is written over a horizontal line.

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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1. General Information

1.1. Description of Device (EUT)

EUT	:	MOBILE PHONE
Model No.	:	CR108
Power supply	:	DC 3.7V from battery
Radio Technology	:	GSM 850/1900
Power class	:	GSM 850: Class 4 GSM 1900: Class 1
FCC Operation frequency	:	824.2MHz—848.8MHz and 1850.2MHz—1909.8MHz
Modulation	:	GMSK
Antenna Type	:	PIFA antenna, Gain: 0dBi
Applicant	:	Cellrunners Distribution Corporation
Address	:	1701 Green Road Suite H, Pompano Beach, FL 33064, USA
Manufacturer	:	B2B CHIPS LIMITED
Address	:	Rm12B, A Block, Hongsong Building, Tairan 6th Rd, Chegongmiao, Futian District, Shenzhen, China

1.2. Test Lab information

Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard	Results
Conducted Output power	FCC PART 2: 2.1046 FCC PART 22H: 22.913 (a) FCC PART 24E: 24.232 (c)	PASS
Radiated Output power(erp/eirp)	FCC PART 22H:22.913 (a) FCC PART 24E:24.232(c)	PASS
Occupied bandwidth	FCC PART 2: 2.1049 FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS
Frequency stability	FCC PART 2: 2.1055 FCC PART 22H: 22.355 FCC PART 24E: 24.235	PASS
Conducted spurious emission (Antenna terminal)	FCC PART 2: 2.1051 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Radiated spurious emissions	FCC PART 2: 2.1053 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Block edge compliance	FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003	PASS

2.2. Assistant equipment used for test

N/A

2.3. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
GSM 850	128	824.2
	190	836.6
	251	848.8
PCS 1900	512	1850.2
	661	1880.0
	810	1909.8

2.4. Test Environment Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.6. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	05.08, 2011	1Year
Spectrum analyzer	Agilent	E4443A	MY46185649	05.08, 2011	1Year
Receiver	R&S	ESCI	100492	05.08, 2011	1Year
Receiver	R&S	ESCI	101202	05.08, 2011	1Year
Bilog Antenna	Sunol	JB3	A121206	15.12.2011	1Year
Horn Antenna	EMCO	3115	640201028-06	15.12.2011	1Year
Power Meter	Anritsu	ML2487A	6K00001491	05.08, 2011	1Year
ETS Horn Antenna	ETS	3160	SEL0076	05.08, 2011	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15.12.2011	1Year
Cable	Resenberger	N/A	No.1	05.08, 2011	1Year
Cable	SCHWARZBECK	N/A	No.2	05.08, 2011	1Year
Cable	SCHWARZBECK	N/A	No.3	05.08, 2011	1Year
Pre-amplifier	R&S	AFS42-00101 800-25-S-42	SEL0081	05.08, 2011	1Year
Pre-amplifier	R&S	AFS33-18002 650-30-8P-44	SEL0080	05.08, 2011	1Year
Base station	Agilent	E5515C	GB44300243	05.08, 2011	1 Year
Temperature controller	Terchy	MHQ	120	05.08, 2011	1Year
Power divider	Anritsu	K240C	020346	05.08, 2011	1 Year
Signal Generator	HP	83732B	VS3449051	05.08, 2011	1 Year
Attenuator	Agilent	8491B	MY39262165	05.08, 2011	1 Year

3. Conducted Output power

3.1. Block Diagram of Test Setup



3.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

3.3. Test Procedure

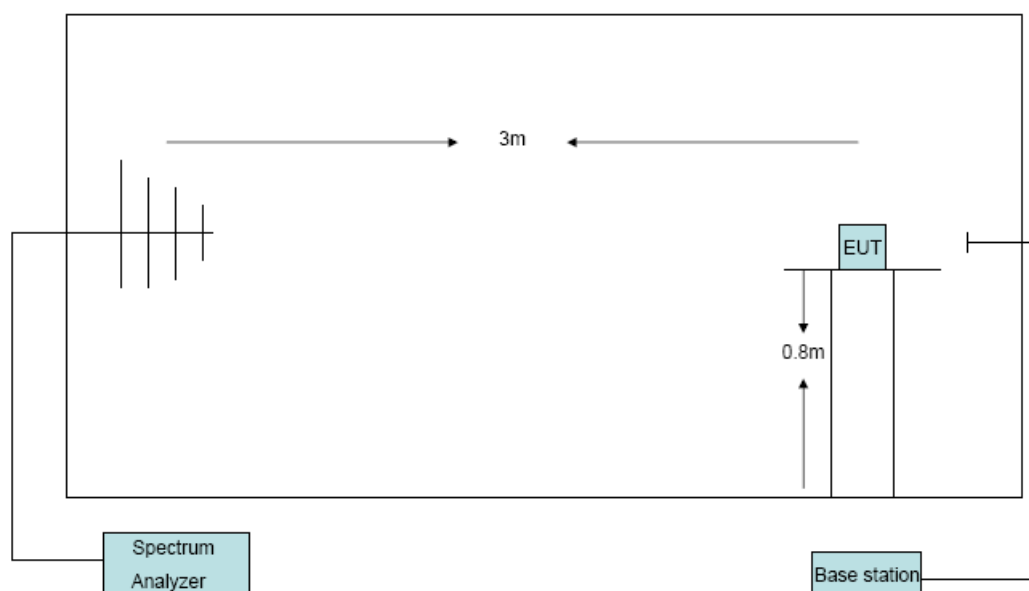
- (1) The EUT's RF output port was connected to base station.
- (2) A call is set up by the SS according to the generic call set up procedure
- (3) Set EUT at maximum power level through base station by power level command
- (4) Measure the maximum output power of EUT at each frequency band and mode by base station.

3.4. Test Result

EUT: MOBILE PHONE		M/N:CR108		Power: DC 3.7V		
Ambient Temperature:24℃		Relative Humidity: 62%				
Test date: 2012-2-14		Test site: RF site		Tested by: TaTa_Chen		
Conclusion: PASS						
Mode	Channel	PK Output Power(dBm)	ERP (dBm)	EIRP (dBm)	Limit	
					ERP(dBm)	EIRP(dBm)
GSM 850	128	32.33	30.18	/	38.5	/
	190	32.12	29.97	/	38.5	/
	251	32.32	30.17	/	38.5	/
PCS 1900	512	29.10	/	29.10	/	33
	661	29.11	/	29.11	/	33
	810	29.21	/	29.21	/	33
Note: EIRP=P _k output power +Antenna Gain(0dBi); ERP=PK output power + Antenna Gain(0dBi) -2.15						

4. Radiated Output power

4.1. Block Diagram of Test Setup



4.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

4.3. Test Procedure

1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz, VBW= 3MHz and peak detector settings.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarization of receiver antenna and then a known power of each measure frequency from

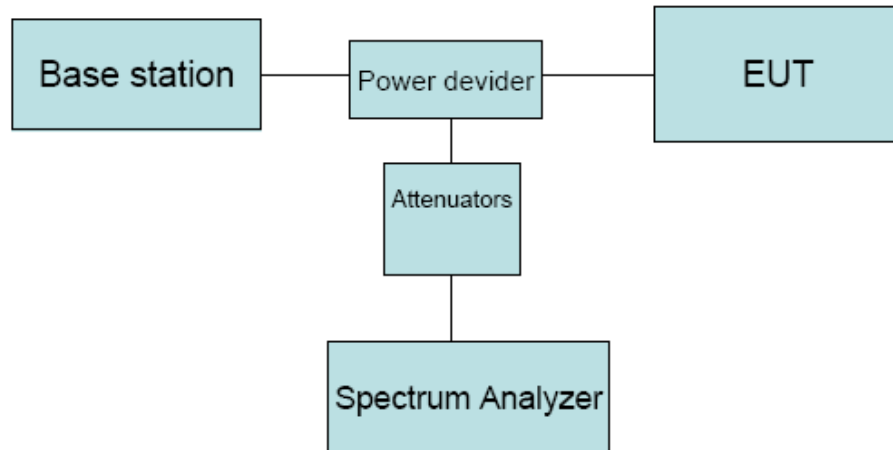
S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Substitution antenna Loss (only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$

4.4. Test Result

EUT: MOBILE PHONE M/N:CR108					
Power: DC 3.7V					
Ambient Temperature:23℃			Relative Humidity: 60%		
Test date: 2012-2-14			Test site: RF site	Tested by: TaTa_Chen	
Conclusion: PASS					
Mode	Channel	LVL (dBm)	Correction factor(dB)	ERP (dBm)	EIRP (dBm)
GSM 850	128	2.05	30.42	30.32	/
	190	2.17	30.21	30.23	/
	251	2.52	30.05	30.42	/
PCS 1900	512	-19.01	46.80	/	27.79
	661	-18.56	46.45	/	27.89
	810	-18.71	46.58	/	27.87
ERP=LVL + Correction factor -2.15					
EIRP=LVL+ Correction factor					

5. Occupied Bandwidth

5.1. Block Diagram of Test Setup



5.2. Limit

N/A

5.3. Test Procedure

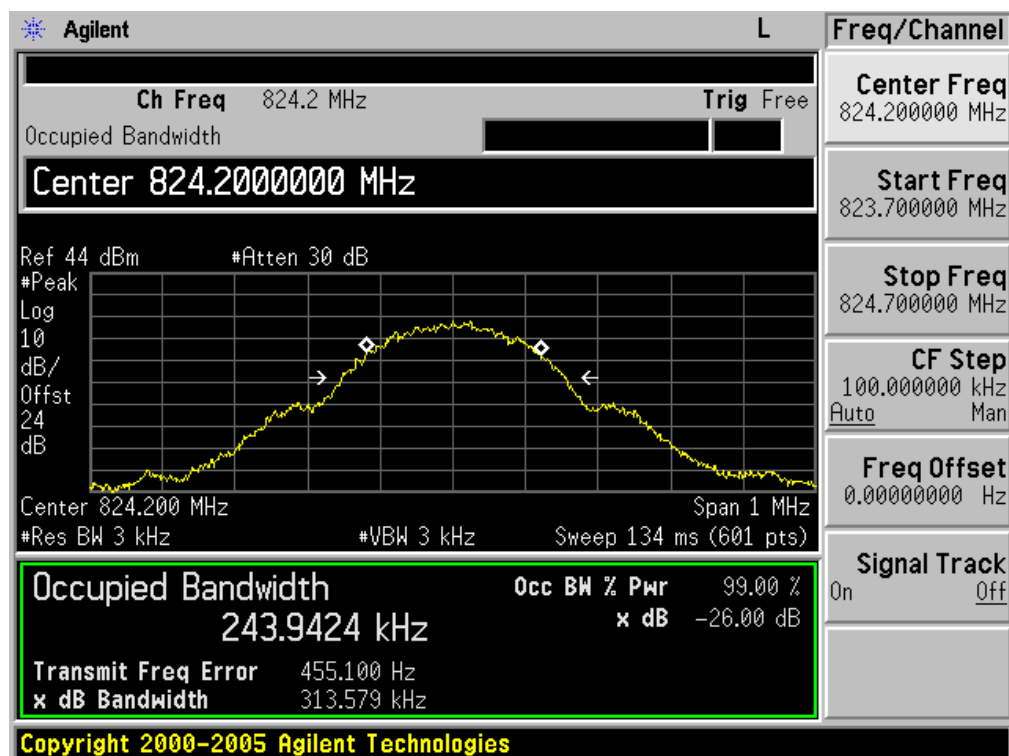
1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

5.4. Test Result

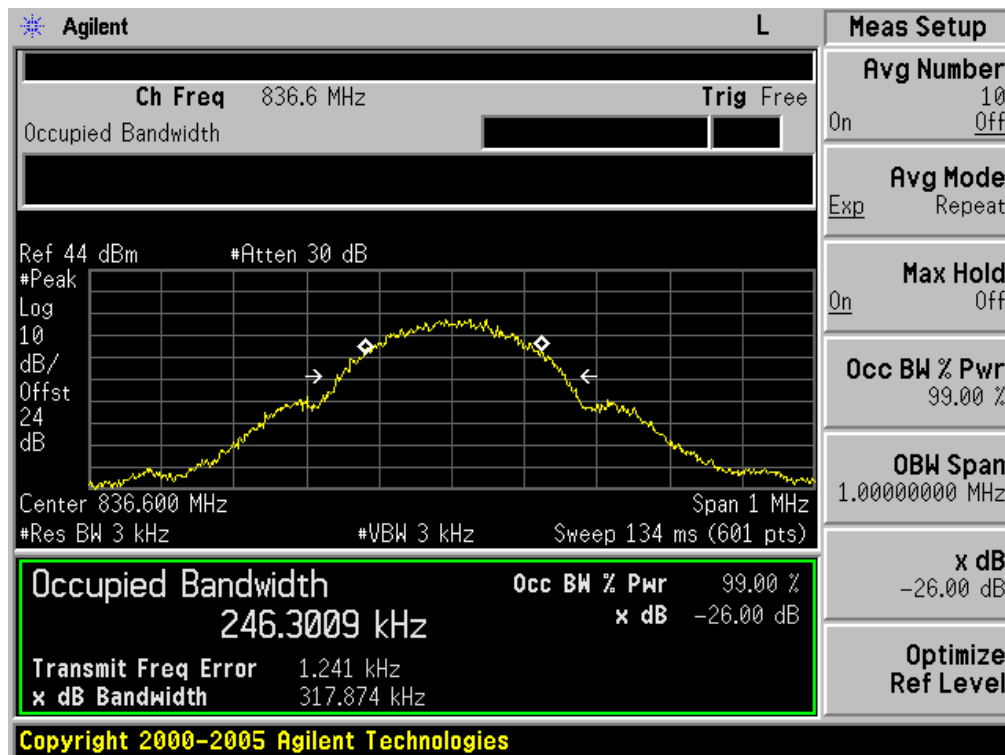
EUT: MOBILE PHONE M/N:CR108			
Power: DC 3.7V			
Ambient Temperature:23℃		Relative Humidity: 60%	
Test date: 2012-2-14		Test site: RF site	Tested by: TaTa_Chen
Mode	Channel	99% bandwidth (KHz)	-26dBc bandwidth (KHz)
GSM 850	128	243.94	313.58
	190	246.30	317.87
	251	244.45	315.27
PCS 1900	512	244.70	312.21
	661	248.43	307.06
	810	250.21	312.93

5.5. Original test data

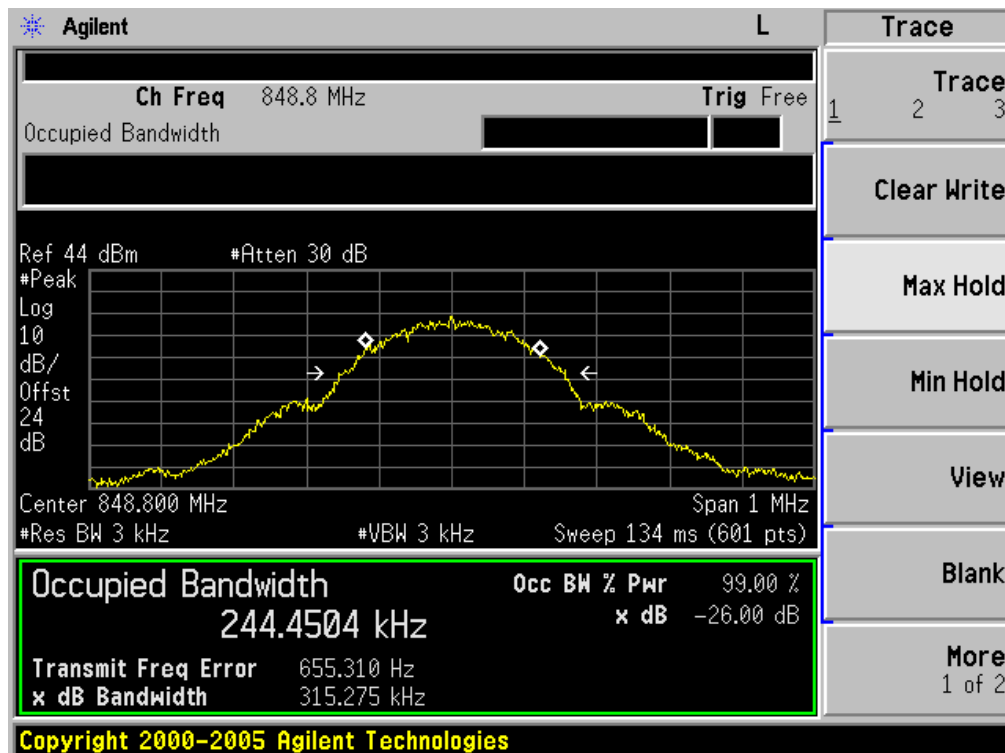
GSM 850 CH128



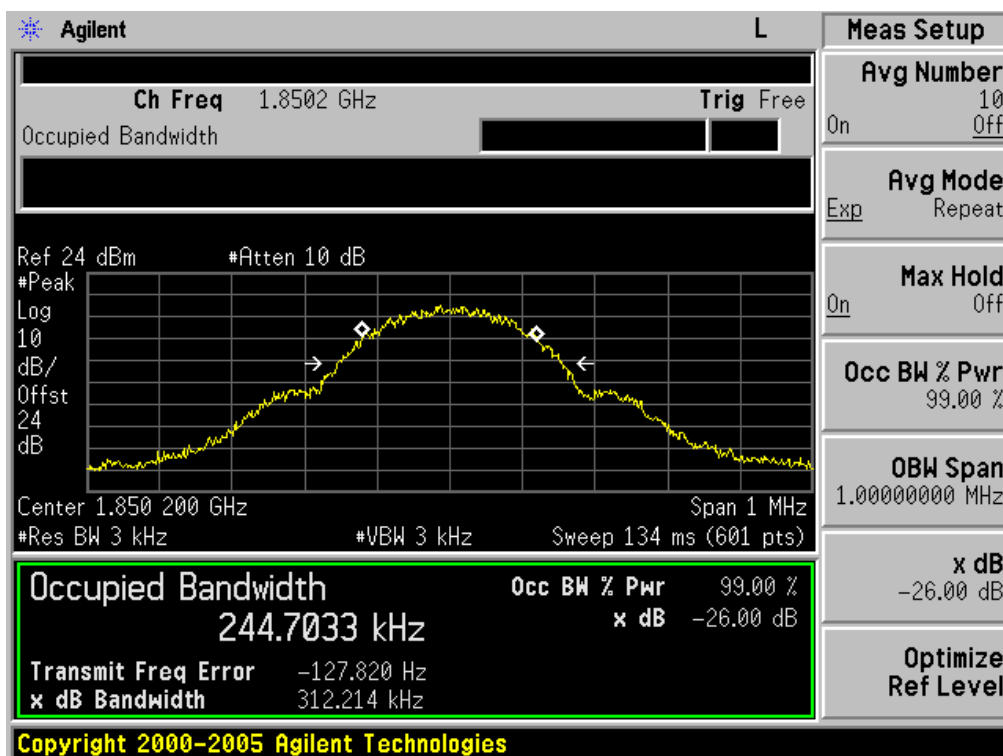
GSM 850 CH190



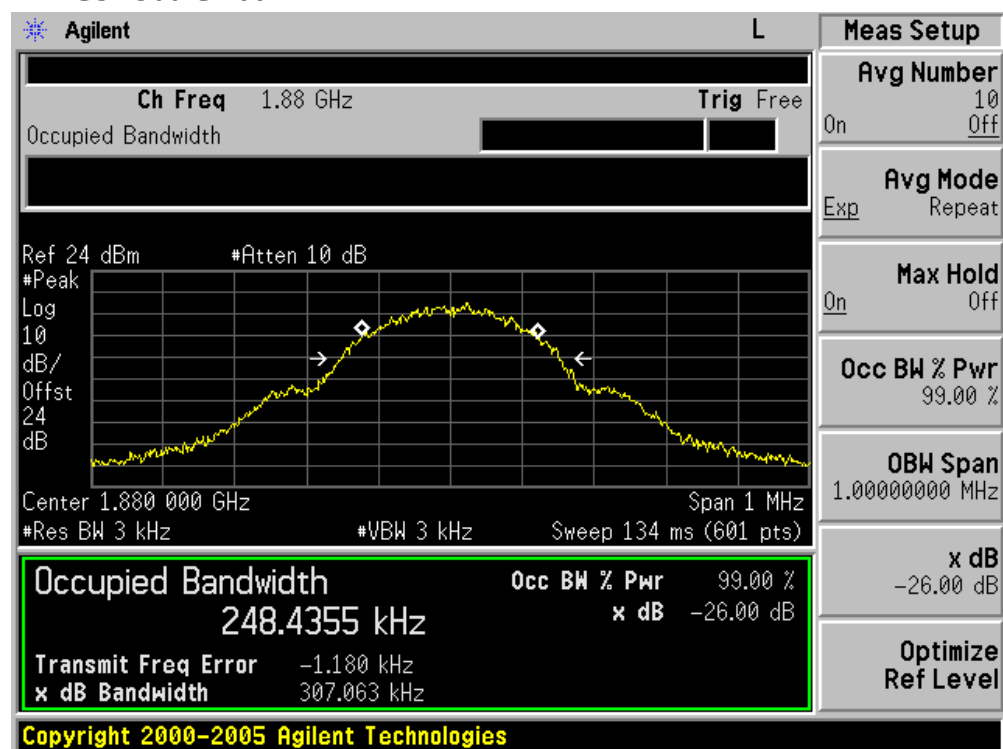
GSM 850 CH251



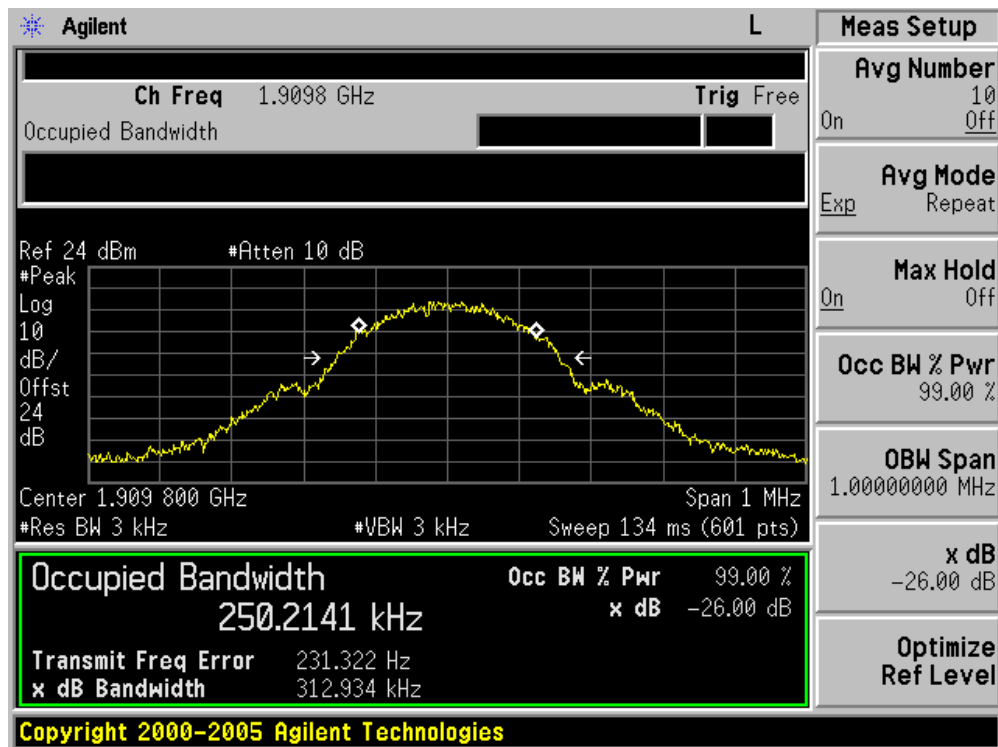
PCS 1900 CH512



PCS 1900 CH661



PCS 1900 CH810



6. Frequency stability

6.1. Block Diagram of Test Setup



6.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
± 2.5 ppm	Must stay within the authorized frequency block

6.3. Test Procedure

Test Procedures for Temperature Variation:

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -10°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 45°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT can not be turned on at -10°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from DC 5V to 3.5V
3. The variation in frequency was measured for the worst case.

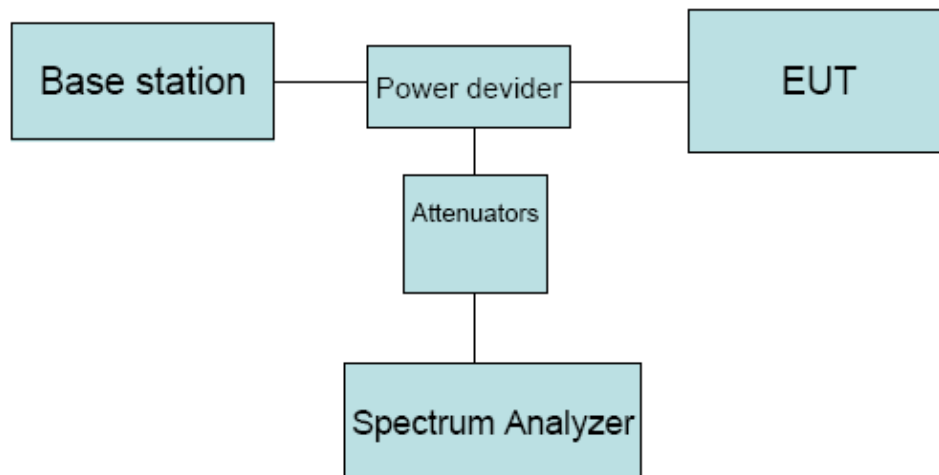
6.4. Test Result

EUT: MOBILE PHONE M/N:CR108			
Power: DC 3.7			
Ambient Temperature:23℃		Relative Humidity: 60%	
Test date: 2012-2-14		Test site: RF site	Tested by: TaTa_Chen
Conclusion: PASS			
Mode	Voltage (V)	Frequency error (Hz)	frequency error (ppm)
GSM 850 CH 190	5V	-26	-0.031
	4.5V	-28	-0.033
	4V	25	0.030
	3.5V	-24	-0.029
	3V	21	0.025
PCS 1900 CH661	5V	32	0.017
	4.5V	-33	-0.018
	4V	-31	-0.016
	3.5V	34	0.018
	3V	-29	-0.015

Mode	Temperature (°C)	Frequency error (Hz)	frequency error (ppm)
GSM 850 CH190	-10	-23	-0.027
	0	-23	-0.027
	10	32	0.038
	20	33	0.039
	30	-21	-0.025
	40	32	0.038
	50	-21	-0.025
PCS 1900 CH661	-10	28	0.015
	0	32	0.017
	10	-34	-0.018
	20	21	0.011
	30	-26	-0.014
	40	25	0.013
	50	-21	-0.011

7. Conducted spurious emissions

7.1. Block Diagram of Test Setup



7.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB, in this case, -13dBm.

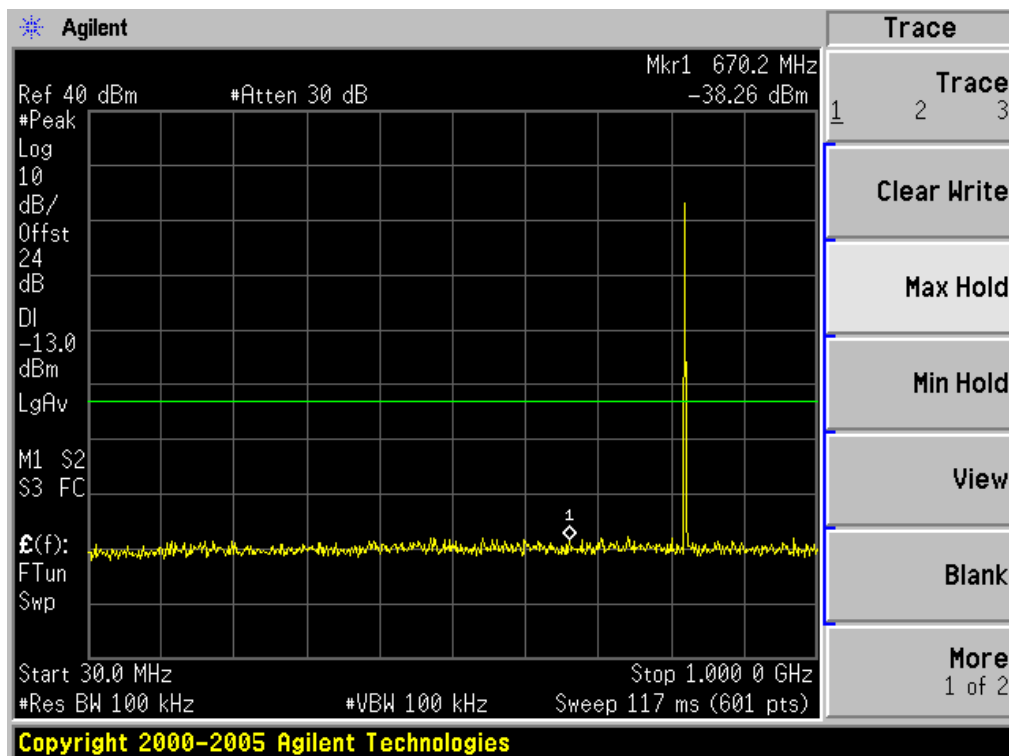
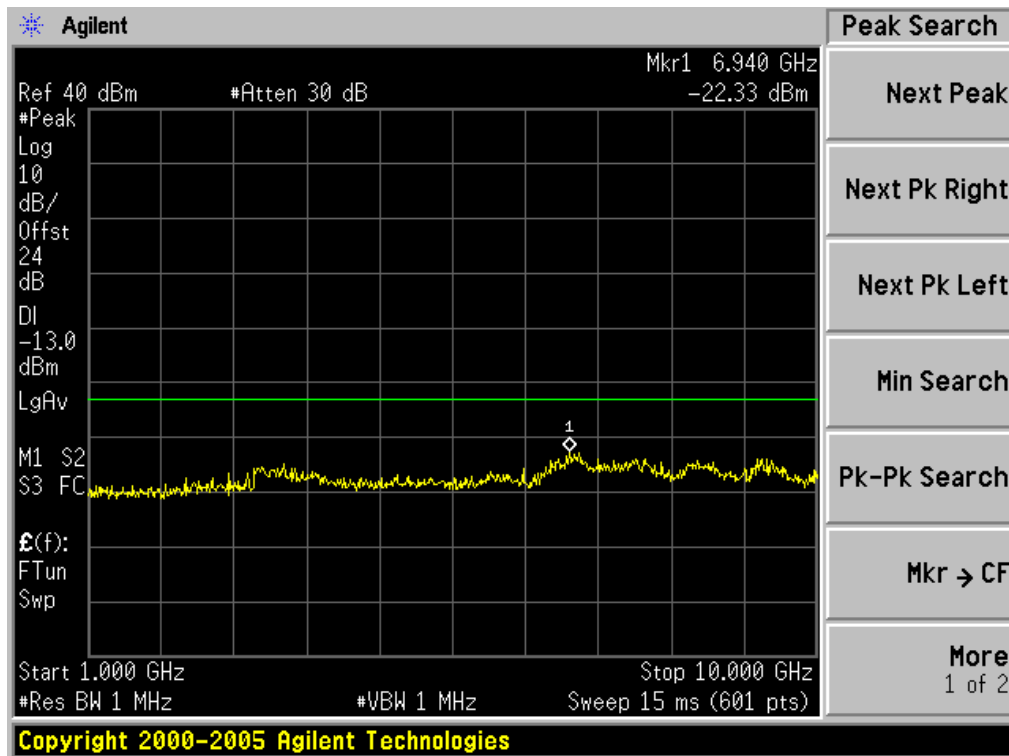
7.3. Test Procedure

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The low, middle and high channels of each band and mode's spurious emissions for 30MHz to 10th Harmonic were measured by Spectrum analyzer.

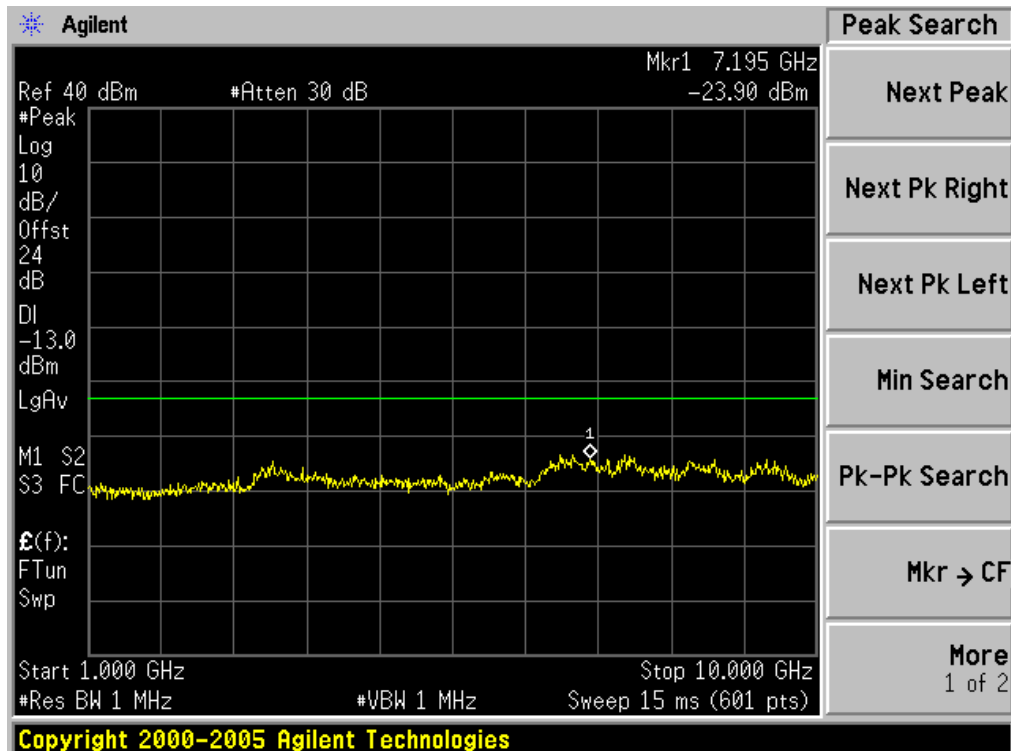
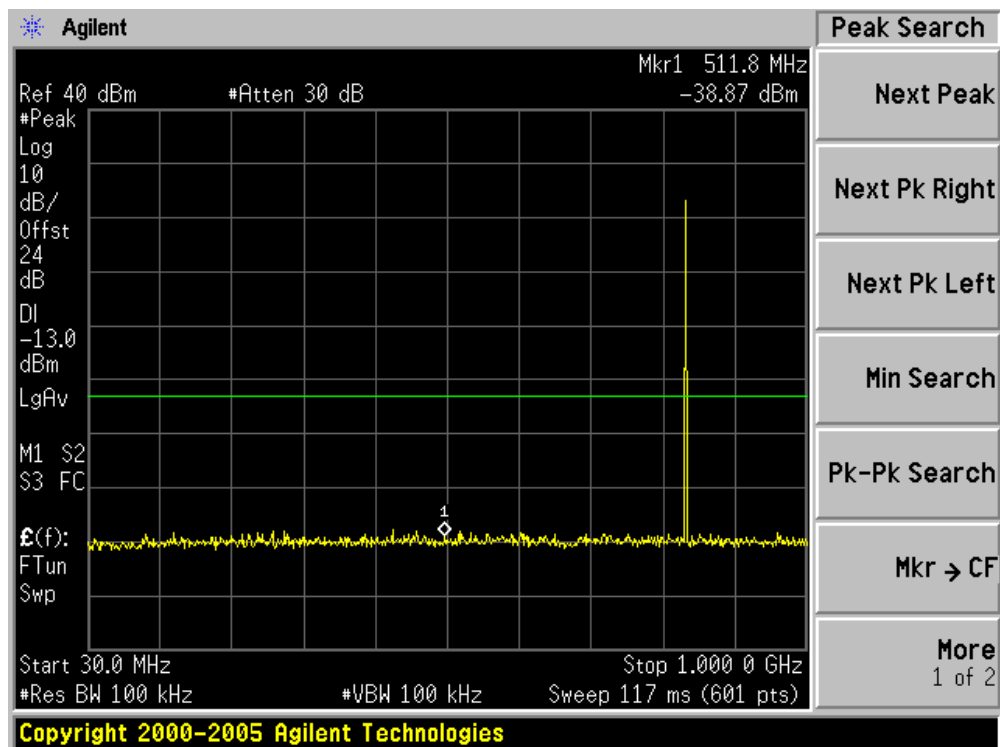
7.4. Test Result

PASS

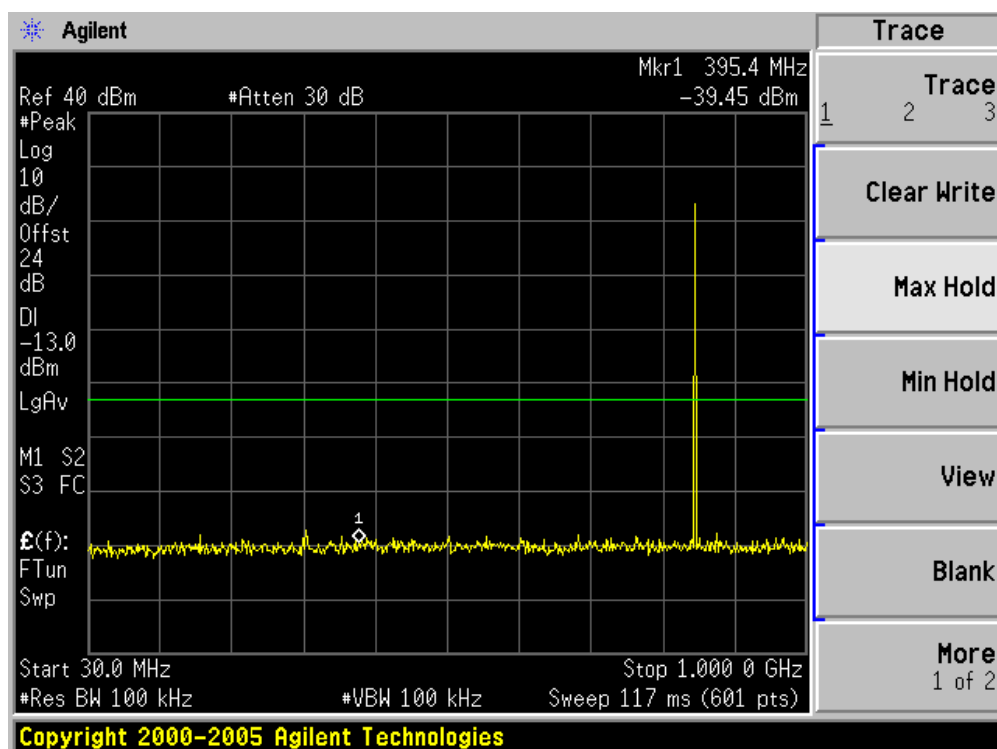
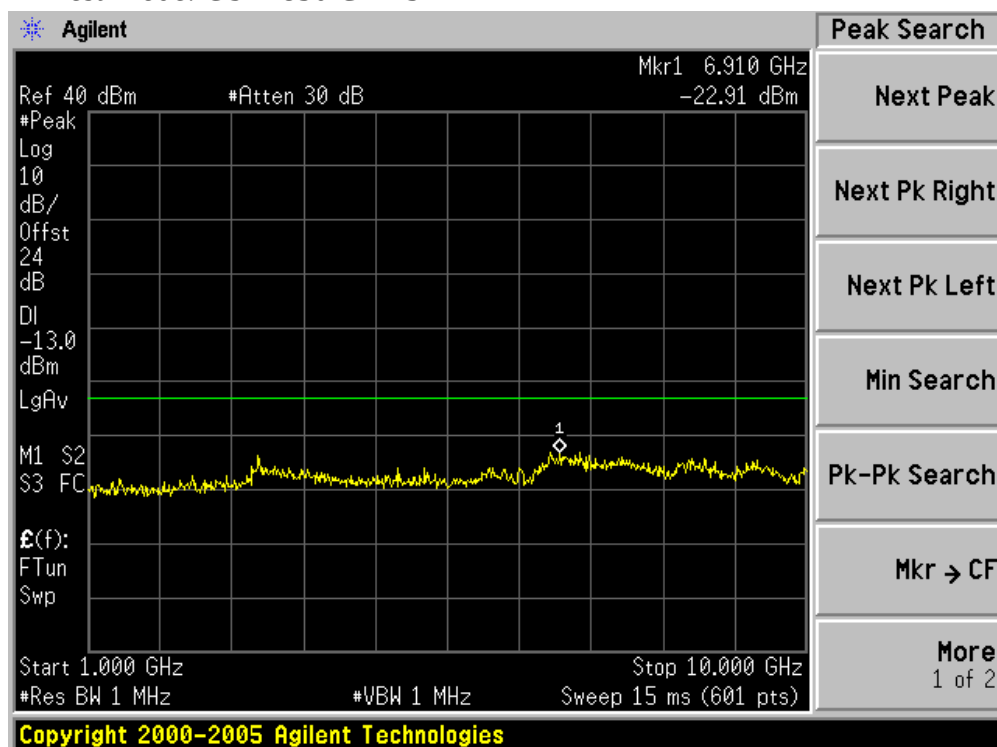
Test Mode: GSM 850 CH 128



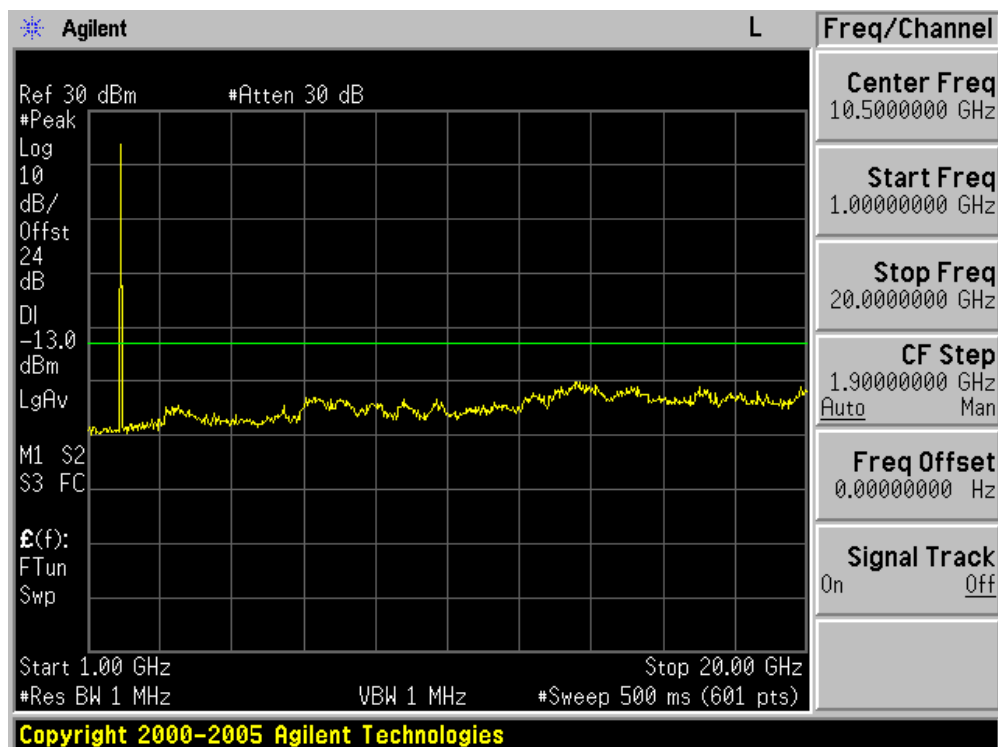
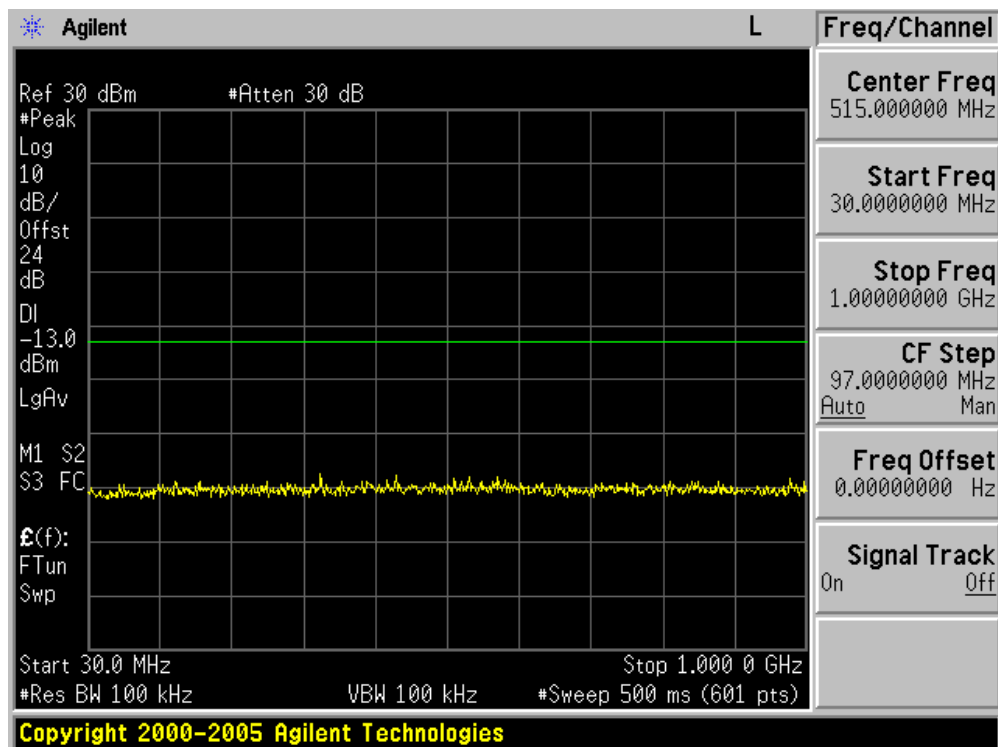
Test Mode: GSM 850 CH 190



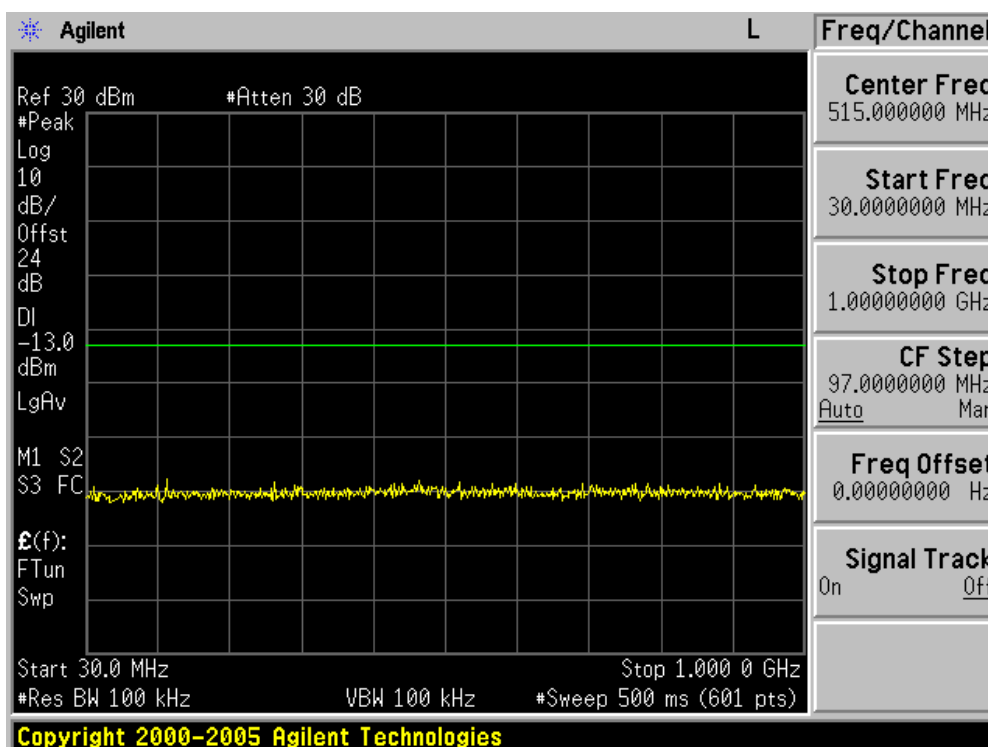
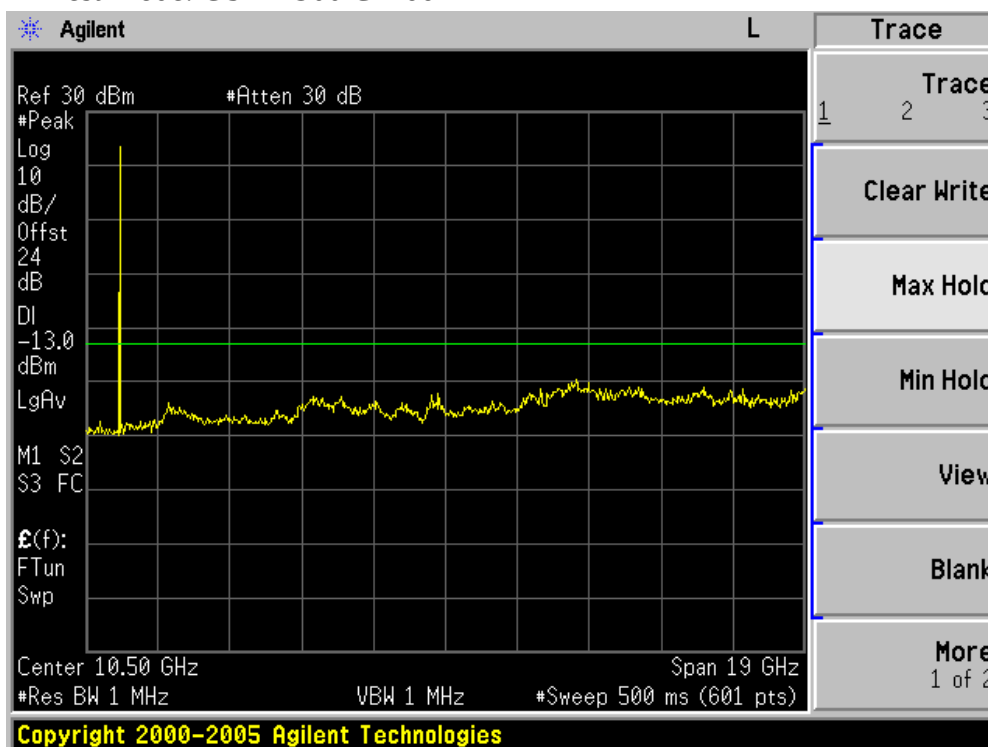
Test Mode: GSM 850 CH 251



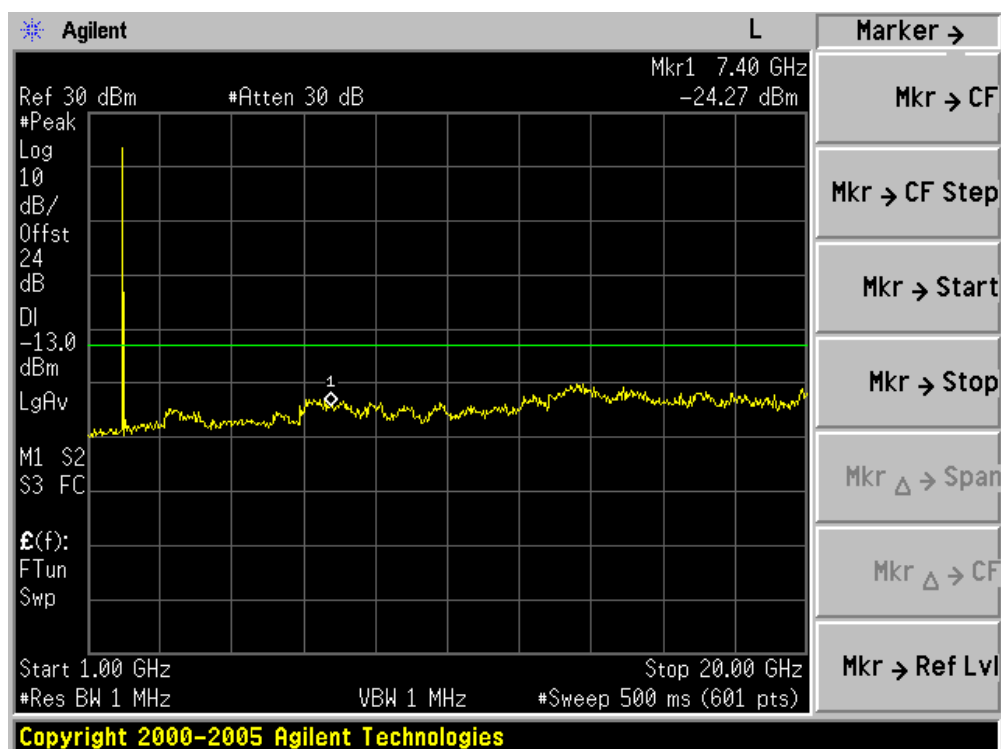
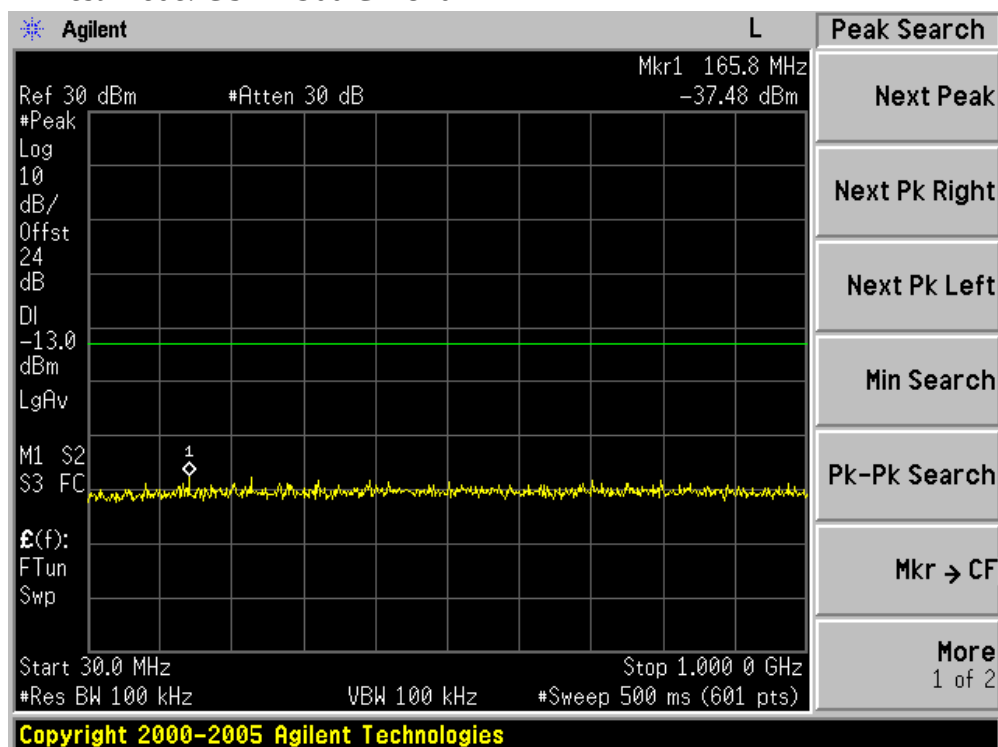
Test Mode: GSM 1900 CH 512



Test Mode: GSM 1900 CH 661

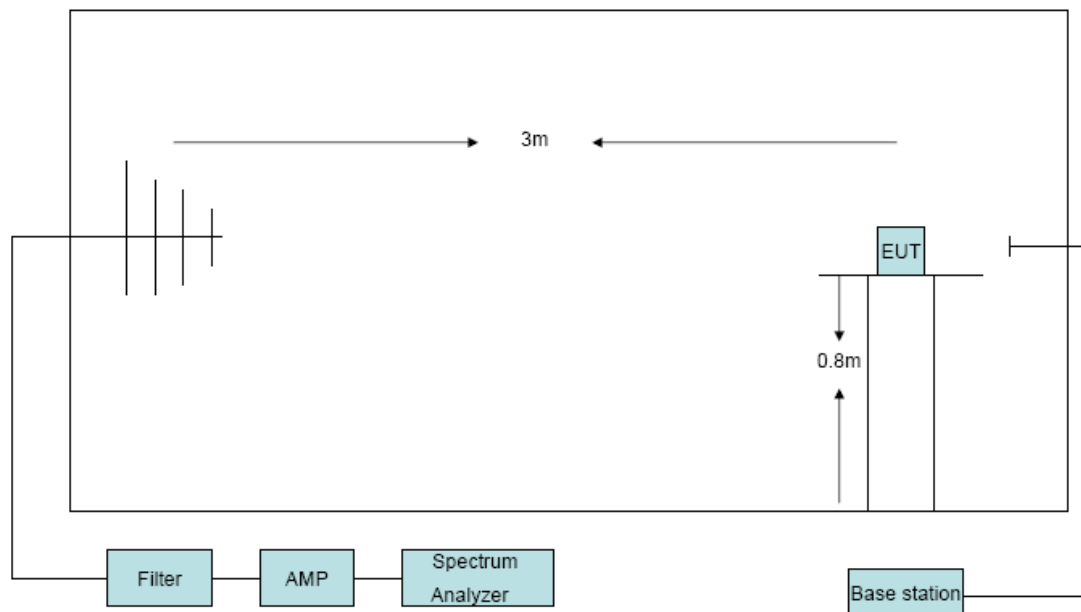


Test Mode: GSM 1900 CH 810



8. Radiated Spurious emissions

8.1. Block Diagram of Test Setup



8.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB, in this case, -13dBm.

8.3. Test Procedure

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated spurious emissions from 30MHz to 10th harmonious of fundamental frequency were measured at 3m with a test antenna and a spectrum analyzer with RBW= 1MHz,VBW= 1MHz ,peak detector settings.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station.All the spurious emissions(record as LVL) at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Final spurious emissions levels were measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency lelow 1GHz) or Horn antenna(for frequecn y above 1GHz) at same location with same polarize of reveiver

antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain –Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then final

spurious emissions were calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP – 2.15

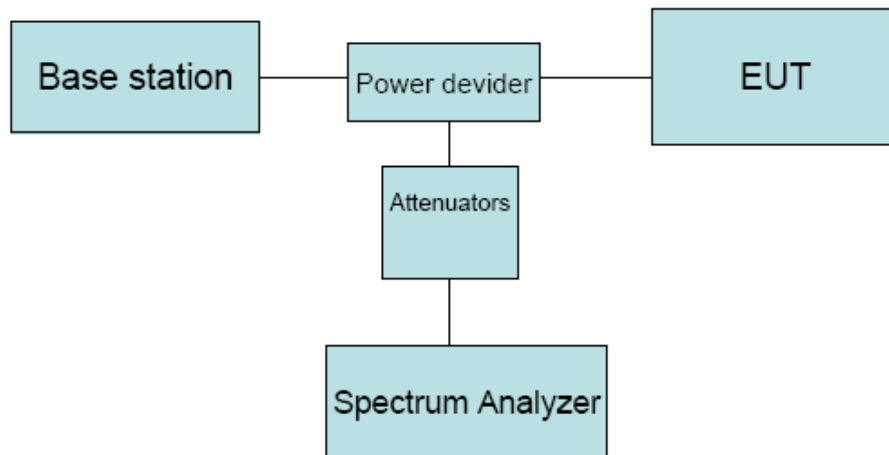
8.4. Test Result

EUT:MOBILE PHONE M/N:CR108						
Power: DC 3.7V						
Test Date: 2012-2-14		Test site: RF Chamber		Tested by: TaTa_Chen		
Ambient Temperature: 24℃		Relative Humidity: 60%				
Conclusion: PASS						
Test result						
Test Mode: GSM 850 CH128						
Frequency (MHz)	Antenna polarization	LVL (dBm)	Correction factor(dB)	Result (ERP)(dBm)	Limit (dBm)	Margin (dB)
1648.4	H	-61.67	11.50	-52.32	-13	39.32
1648.4	V	-56.86	10.56	-48.45	-13	35.45
Test Mode: GSM 850 CH190						
1673.2	H	-64.22	10.94	-55.43	-13	42.43
2509.8	H	/	/	/	-13	/
1673.2	V	-62.07	10.90	-53.32	-13	40.32
2509.8	V	/	/	/	-13	/
Test mode: GSM 850 CH251						
1697.6	H	-62.95	11.67	-53.43	-13	40.43
2546.4	H	/	/	/	-13	/
1697.6	V	-58.30	11.13	-49.32	-13	36.32
2546.4	V	/	/	/	-13	/

Test Mode: GSM 1900 CH512						
Frequency (MHz)	Antenna polarization	LVL (dBm)	Correction factor(dB)	Result (EIRP)(dBm)	Limit (dBm)	Margin (dB)
3700.4	H	-53.89	8.57	-45.32	-13	32.32
5550.6	H	/	/	/	-13	/
3700.4	V	-51.60	8.37	-43.23	-13	30.23
5550.6	V	/	/	/	-13	/
Test Mode: GSM 1900 CH661						
3760	H	-55.07	8.75	-46.32	-13	33.32
5640	H	/	/	/	-13	/
3760	V	-52.67	8.55	-44.12	-13	31.12
5640	V	/	/	/	-13	/
Test mode: GSM 1900 CH810						
3819.6	H	-56.28	8.94	-47.34	-13	34.34
5729.4	H	/	/	/	-13	/
3819.6	V	-54.38	8.72	-45.66	-13	32.66
5729.4	V	/	/	/	-13	/
Note: All the other emissions not recorded were too low to read, and deemed to comply with limit.						

9. Block Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB, in this case, -13dBm.

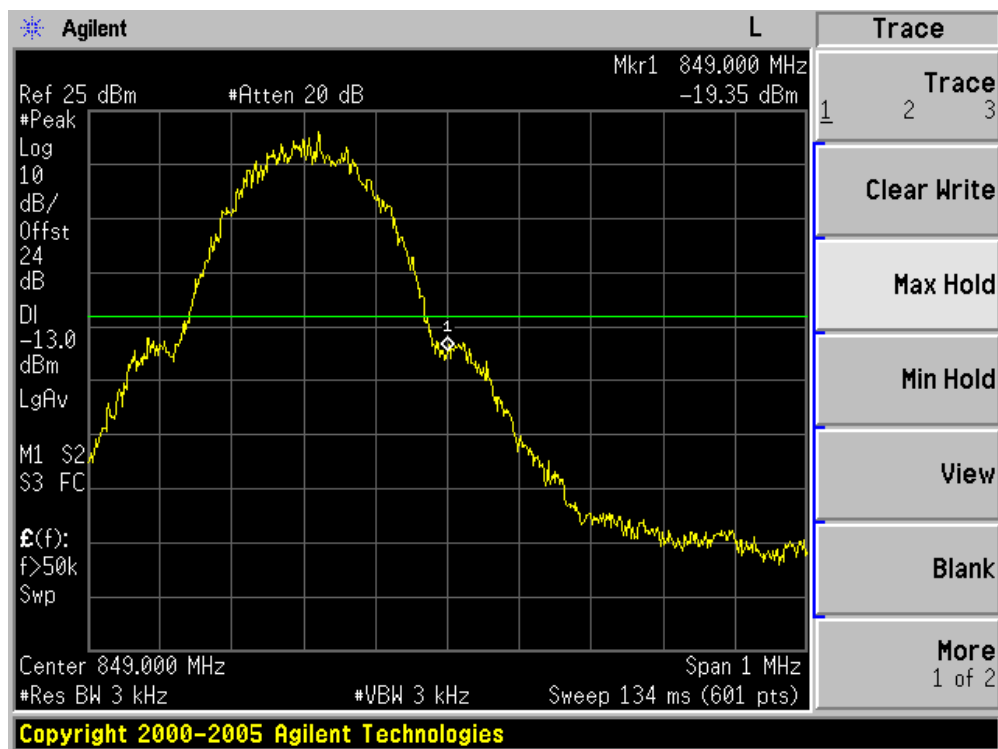
9.3. Test Procedure

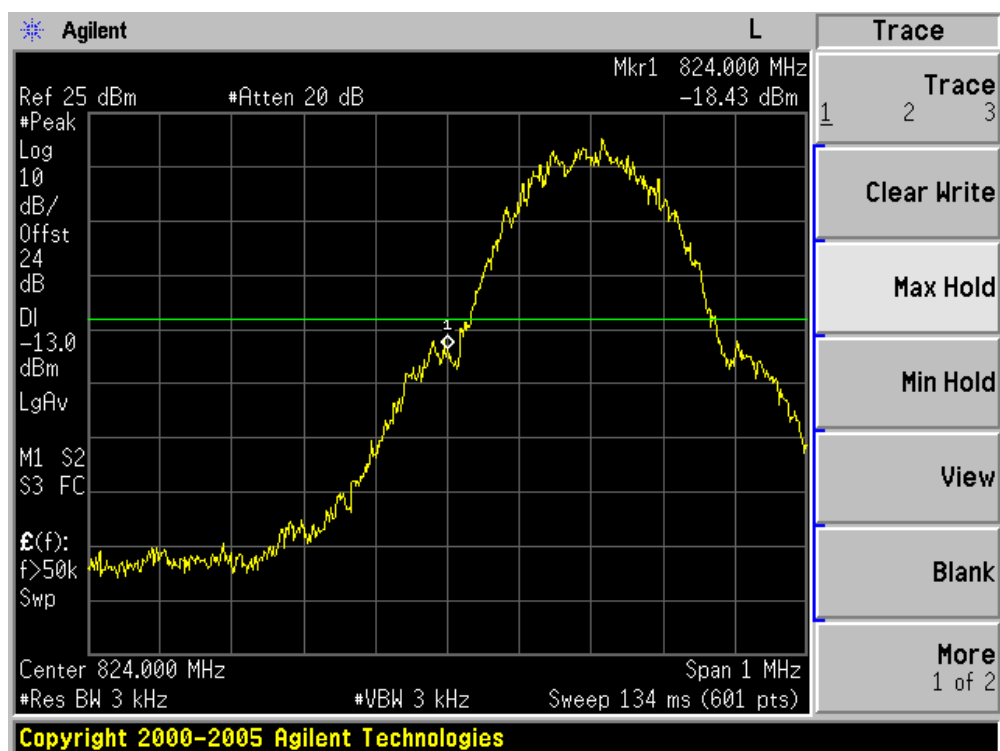
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured.

9.4. Test Result

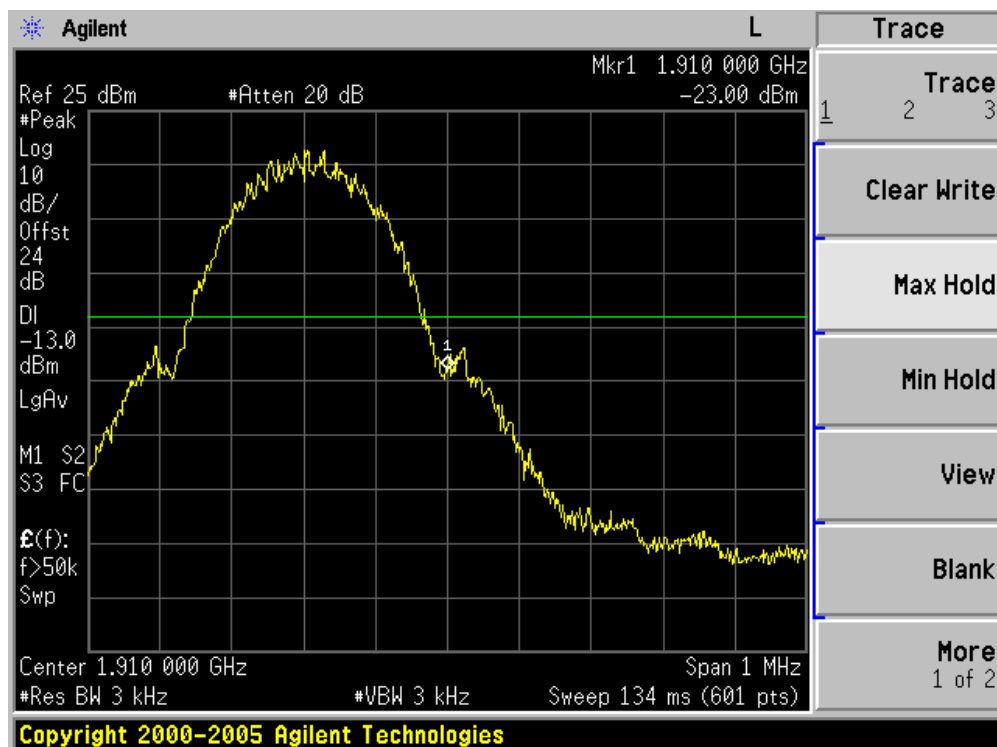
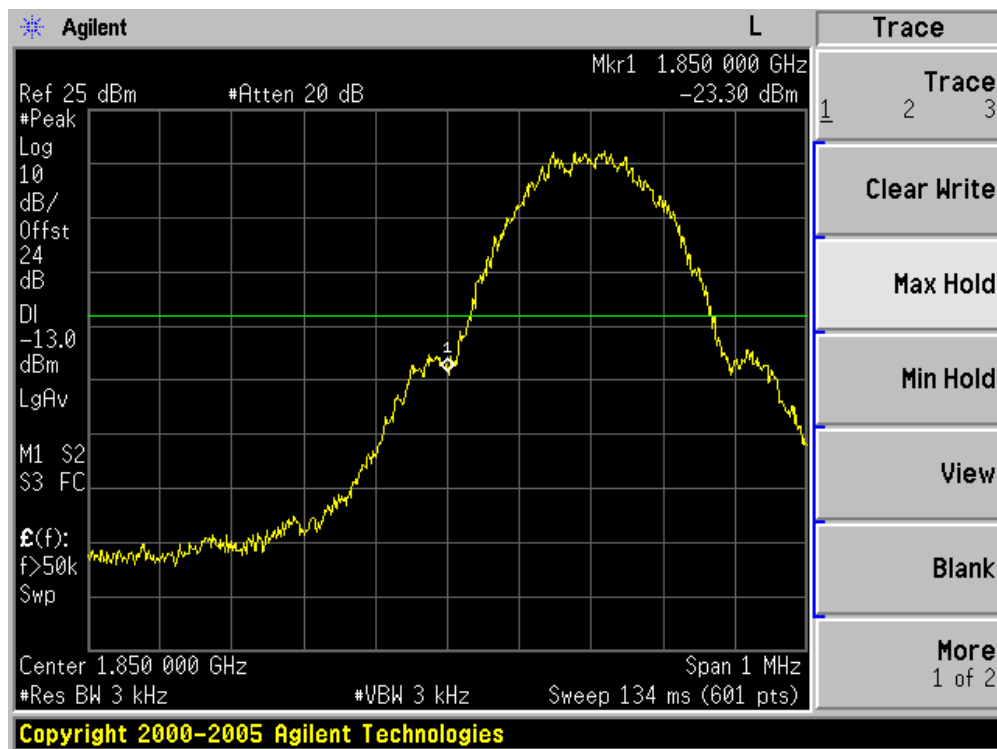
PASS

Test Mode: GSM 850



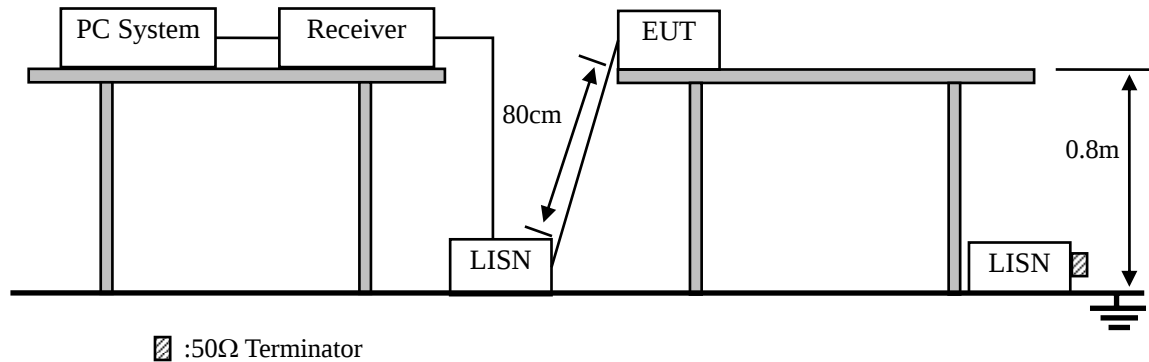


Test Mode: GSM 1900



10. Power line conducted emission

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

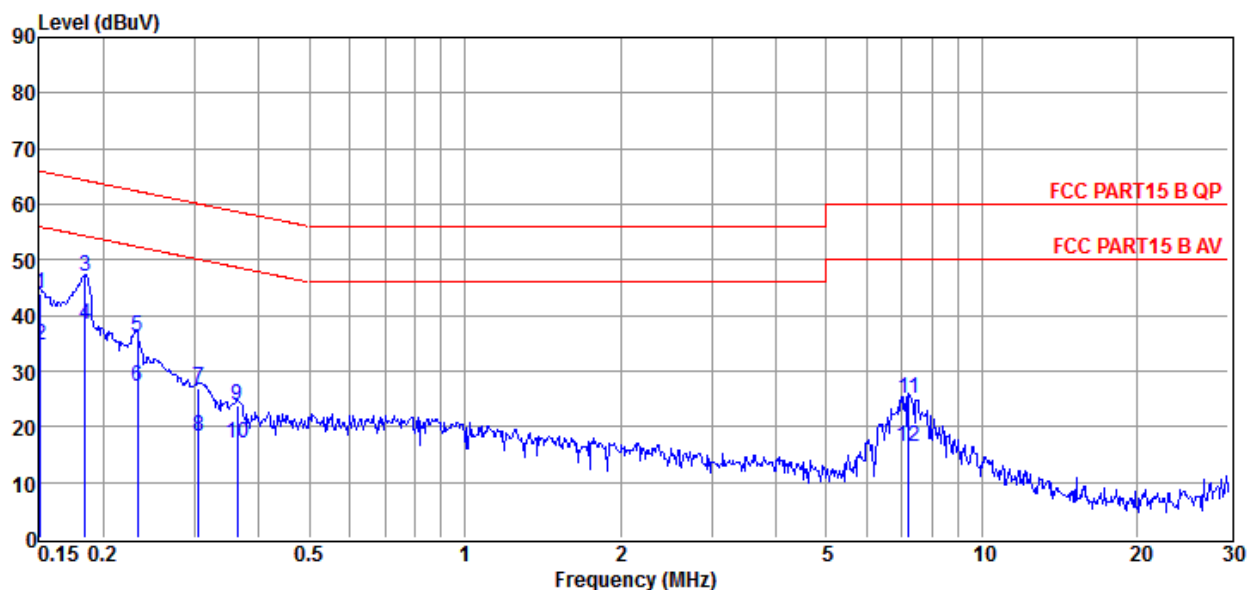
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2009 and ANSI C64.10:2009 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

Conducted Emission Test Result

Test Date : 2012-02-14 **Tested By** : Damon_Hu
EUT : MOBILE PHONE **Model Number** : CR108
Power Supply : AC 120V/60Hz **Test Mode** : Charging mode
Condition : Temp:24.5'C,Humi:55% **LISN** : 2012 ENV216



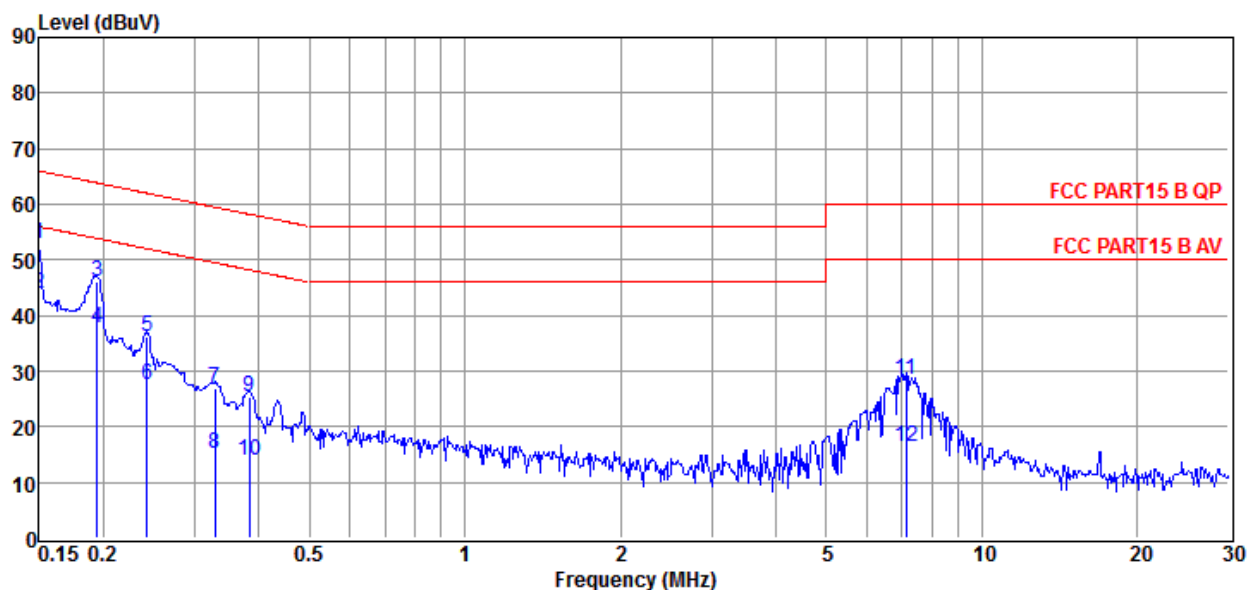
Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	34.36	9.63	0.04	44.03	65.96	-21.93	QP	LINE
2	0.15	25.00	9.63	0.04	34.67	55.96	-21.29	Average	LINE
3	0.18	37.20	9.63	0.04	46.87	64.28	-17.41	QP	LINE
4	0.18	28.65	9.63	0.04	38.32	54.28	-15.96	Average	LINE
5	0.23	26.51	9.63	0.04	36.18	62.35	-26.17	QP	LINE
6	0.23	17.50	9.63	0.04	27.17	52.35	-25.18	Average	LINE
7	0.31	17.20	9.64	0.04	26.88	60.10	-33.22	QP	LINE
8	0.31	8.54	9.64	0.04	18.22	50.10	-31.88	Average	LINE
9	0.36	14.21	9.64	0.04	23.89	58.65	-34.76	QP	LINE
10	0.36	7.30	9.64	0.04	16.98	48.65	-31.67	Average	LINE
11	7.21	14.99	9.80	0.13	24.92	60.00	-35.08	QP	LINE
12	7.21	6.55	9.80	0.13	16.48	50.00	-33.52	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Cable loss

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

Conducted Emission Test Result

Test Date	: 2012-02-14	Tested By	: Damon_Hu
EUT	: MOBILE PHONE	Model Number	: CR108
Power Supply	: AC 120V/60Hz	Test Mode	: Charging mode
Condition	: Temp:24.5'C,Humi:55%	LISN	: 2012 ENV216



Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	43.00	9.97	0.04	53.01	66.00	-12.99	QP	NEUTRAL
2	0.15	33.80	9.97	0.04	43.81	56.00	-12.19	Average	NEUTRAL
3	0.19	36.50	9.63	0.04	46.17	63.84	-17.67	QP	NEUTRAL
4	0.19	28.00	9.63	0.04	37.67	53.84	-16.17	Average	NEUTRAL
5	0.24	26.60	9.64	0.04	36.28	62.00	-25.72	QP	NEUTRAL
6	0.24	18.00	9.64	0.04	27.68	52.00	-24.32	Average	NEUTRAL
7	0.33	17.30	9.66	0.04	27.00	59.49	-32.49	QP	NEUTRAL
8	0.33	5.35	9.66	0.04	15.05	49.49	-34.44	Average	NEUTRAL
9	0.38	15.67	9.66	0.04	25.37	58.21	-32.84	QP	NEUTRAL
10	0.38	4.20	9.66	0.04	13.90	48.21	-34.31	Average	NEUTRAL
11	7.14	18.50	9.73	0.13	28.36	60.00	-31.64	QP	NEUTRAL
12	7.14	6.50	9.73	0.13	16.36	50.00	-33.64	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Cable loss

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

11. Test setup photo





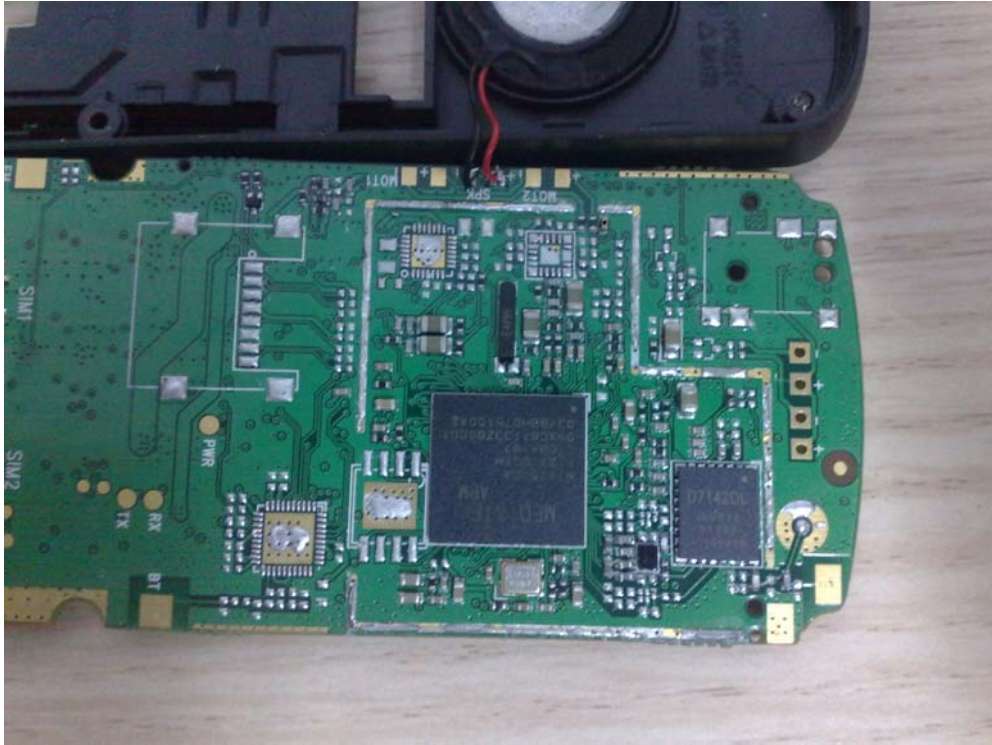
12. Photos of EUT











END OF REPORT