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FCC&IC Test Report

Report No.: AGC01788140601FE02

FCC ID : 2ACBST2

IC ID : 11974A-T2

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Tablet PC

BRAND NAME : LANGMEI, KO

MODEL NAME : T2,7CZ

CLIENT : Shenzhen LangMei Technology Co., Ltd.

DATE OF ISSUE : July 24, 2014

STANDARD(S) FCC Part 22H & 24E Rules : PSC 122 Law 2.2 R PSC 122

* RSS-132 Issue 3 & RSS-133 Issue 6

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	/	July 24, 2014	Valid	Original Report

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1.VERIFICATION OF COMPLIANCE

Applicant	Shenzhen LangMei Technology Co., Ltd.
Address	Block B2, 2nd Industrial Park, Fenghuang 3td Industrial Zone, Fuyong Town, Bao'an District, Shenzhen
Manufacturer Shenzhen LangMei Technology Co., Ltd.	
Address Block B2, 2nd Industrial Park, Fenghuang 3td Industrial Zone, Fuye Bao'an District, Shenzhen	
Product Designation	Tablet PC
Brand Name	LANGMEI, KO
Test Model	T2
Series Model	7CZ
Difference description	All the same except for the model name.
Date of test	July 15, 2015 to July 24, 2014
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2003 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E of the Code of Federal Regulations and Industry Canada Standards RSS 132 and RSS 133.

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

Reviewed By:

Bart Xie

July 24, 2014

Reviewed By:

Kidd Yang

July 24, 2014

Approved By:

Solger Zhang

July 24, 2014

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2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Tablet PC			
Hardware version:	MC706			
Software version:	Android.4.2.2			
Frequency Bands:	☑GSM 850☑PCS 1900 (U.S. Bands)☑GSM 900☑DCS 1800 (Non-U.S. Bands)			
Antenna:	PIFA Antenna			
Antenna gain:	-1.0dBi(GSM850), -0.8dBi (GSM1900)			
Power Supply:	DC 3.7V by Battery			
Battery parameter:	DC3.7V/2400 mAh			
Adapter Input:	AC100-240V 50/60Hz, 0.4A			
Adapter Output:	DC 5V, 2.5A			
Dual Card:	GSM Card Slot GSM Card Slot			
GPRS Class	12			
Extreme Vol. Limits:	DC3.4 V to 4.2 V (Normal: DC3.7 V)			
Extreme Temp. Tolerance	-10°C to +50°C			
IMEI	353609027116533 353609027116541			
*** Note: The High Veltage DC4 2V and Law Veltage DC2 4V was declared by reconstructure. The				

^{***} Note: The High Voltage DC4.2V and Low Voltage DC3.4V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.

Other functions have been performed according to verification procedure except for Bluetooth and MS function. Card 1 can't transmit with Card 2 simultaneously.

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GSM Card Slot:

	Maximum ERP/EIRP (dBm)	Max. Conducted Power (dBm)	Max. Average Burst Power (dBm)
GSM 850	30.66	32.42	31.86
PCS 1900	27.67	29.58	28.84

GSM Card Slot:

	Maximum ERP/EIRP (dBm)	Max. Conducted Power (dBm)	Max. Average Burst Power (dBm)
GSM 850	30.18	32.17	31.37
PCS 1900	27.25	29.23	28.46

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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ACBST2** and **IC ID: 11974A-T2**, filing to comply with the FCC Part 22H&24E of the Code of Federal Regulations and Industry Canada Standards RSS 132 and RSS 133 requirements.

2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2003; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057 of the Code of Federal Regulations and Industry Canada Standards RSS 132 Rules of RSS132 5.4, RSS132 5.3, RSS132 5.2, RSS132 5.5 and RSS 133 Rules of RSS133 6.4, RSS133 6.3 RSS133 6.2, RSS133 6.5. KDB 971168 D01 Power Meas License Digital Systems v02r01

2.4 TEST FACILITY

The test site used to collect the radiated data is located at:

Attestation of Global Compliance (Shenzhen) Co., Ltd.

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

FCC register No.: 259865

The test site is constructed and calibrated to meet the IC requirements in documents RS212.

IC register No.: 9803A-1

2.5 MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	July 16, 2014	July 15, 2015
TEST RECEIVER	R&S	ESCI	100694	July 16, 2014	July 15, 2015
COMMUNICATION TESTER	AGILENT	8960	122500087	Oct.21, 2013	Oct.20, 2014
COMMUNICATION TESTER	R&S	CMU200	122500166	Feb.27,2014	Feb.26,2015
SIGNAL GENERATOR	AGILENT	E4438C	MY44260051	Feb.23,2014	Feb. 22,2015
LISN	R&S	ESH3-Z5	8389791009	July 16, 2014	July 15, 2015
CLIMATE CHAMBER	ALBATROSS			July 16, 2014	July 15, 2015
Loop Antenna	A.H.	SAS-562B	SEL0097	July 16, 2014	July 15, 2015
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	26	June 6,2014	June 5, 2015
Substitution Antenna	EMCO	3142C		June 6,2014	June 5, 2015
Substitution Antenna	EM	EM-AH-10180	69	Apr.19, 2014	Apr.18, 2015
Horn Antenna	EM	EM-AH-10180	67	Apr.19, 2014	Apr.18, 2015
Horn Antenna	A.H. Systems Inc.	SAS-574		June 6,2014	June 5, 2015

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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 and IC 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	Item				
Number	Item Description		FCC Rules	IC Rules	
1	Output Power	Conducted output power	2.1046/22.913(a) (2) /	RSS132 5.4/RSS133 6.4	
ľ	Output Fower	Radiated output power	24.232 (c)		
2	Peak-to-Average Ratio	Peak-to-Average Ratio	24.232(d)	RSS133 6.4	
3	Spurious Emission	Conducted spurious emission Radiated spurious emission	- 2.1051 / 22.917 / 24.238	RSS132 5.5/ RSS133 6.5	
4	Mains Conducted Emis	ssion	15.107 / 15.207	RSS -Gen	
5	Frequency Stability		2.1055/22.355 /24.235	RSS132 5.3 / RSS133 6.3	
6	Occupied Bandwidth		2.1049 (h)(i)	RSS –Gen,4.6	
7	Emission Bandwidth		22.917(a)/24.238(a)	RSS132 5.2/ RSS133 6.2	
8	Band Edge		22.917(a)/24.238(a)	RSS132 5.5/ RSS133 6.5	

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3.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System

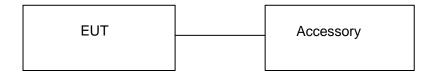


Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Tablet PC	T2	FCC ID:2ACBST2	EUT
2	Adapter	BSF-50200	DC5.0V / 2.5A	Accessory
3	Battery	337095	DC3.7V / 2400 mAh	Accessory
4	Earphone	T2	N/A	Accessory
5	USB Cable	T2	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	Item Description		FCC Rules	IC Rules	Result
1	Output Power	Conducted Output Power Radiated Output Power	2.1046/22.913(a) (2) / 24.232 (c)	RSS132 5.4 /RSS133 6.4	Pass
2	Peak-to-Ave rage Ratio	Peak-to-Average Ratio	24.232(d)	RSS133 6.4	Pass
3	Spurious Emission	Conducted Spurious Emission Radiated Spurious Emission	2.1051 / 22.917 / 24.238	RSS132 5.5/ RSS133 6.5	Pass
4	Mains Conducted Emission		15.107 / 15.207	RSS -Gen	Pass
5	Frequency Stability		2.1055/22.355 /24.235	RSS132 5.3 /RSS133 6.3	Pass
6	Occupied Bandwidth		2.1049 (h)(i)	RSS -Gen,4.6	Pass
7	Emission Bandwidth		22.917(a)/24. 238(a)	RSS132 5.2/ RSS133 6.2	Pass
8	Band Edge		22.917(a)/24. 238(a)	RSS132 5.5/ RSS133 6.5	Pass

5. DESCRIPTION OF TEST MODES

During the testing, the EUT 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: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, mode have been tested during the test.

The worst condition was recorded in the test report if no other modes test data.

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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/EGPRS 850, GSM/GPRS/EGPRS1900) at 3 typical channels (the Top Channel, the Middle Channel and the Bottom Channel) for each band.

6.1.2 MEASUREMENT RESULT

Conducted Output Power Limits for GSM850/EDGE band						
Mode	Nominal Peak Power	Tolerance(dB)				
GSM	33 dBm (2W)	-1				
EDGE	27 dBm(0.5W)	±1				
	Conducted Output Power Limits for PCS1900/EDGE band					
Mode	Nominal Peak Power	Tolerance(dB)				
GSM	30 dBm (1W)	-1				
EDGE	26 dBm (0.4W)	±1				

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GSM 850:

Mode	Frequency	Reference	Peak	Tolerance	Avg.Burst	Duty cycle	Frame
Wode	(MHz)	Power	Power		Power	Factor(dB)	Power(dBm)
	824.2	33	32.42	-0.58	31.86	-9	22.86
GSM850	836.6	33	32.35	-0.65	31.75	-9	22.75
	848.8	33	32.31	-0.69	31.72	-9	22.72
CDDC050	824.2	33	32.37	-0.63	31.81	-9	22.81
GPRS850	836.6	33	32.33	-0.67	31.76	-9	22.76
(1 Slot)	848.8	33	32.28	-0.72	31.72	-9	22.72
GPRS850	824.2	30	29.47	-0.53	28.79	-6	22.79
	836.6	30	29.35	-0.65	28.67	-6	22.67
(2 Slot)	848.8	30	29.34	-0.66	28.65	-6	22.65
GPRS850	824.2	28.23	27.52	-0.71	26.71	-4.26	22.45
(3 Slot)	836.6	28.23	27.48	-0.75	26.68	-4.26	22.42
(3 3101)	848.8	28.23	27.44	-0.79	26.63	-4.26	22.37
GPRS850	824.2	27	26.47	-0.53	25.65	-3	22.65
(4 Slot)	836.6	27	26.46	-0.54	25.58	-3	22.58
(4 3101)	848.8	27	26.41	-0.59	25.55	-3	22.55

Mode	Channel	Frequency	Peak Power	Avg.Burst Power
Wiode		(MHz)	(dBm)	(dBm)
EDGE	128	824.2	26.69	26.26
(1 Slot)	189	836.6	26.66	26.24
(1 3101)	251	848.8	26.63	26.18
EDGE	128	824.2	25.57	24.74
(2 Slot)	189	836.6	25.55	24.72
(2 3101)	251	848.8	25.47	24.67
EDGE	128	824.2	23.46	22.74
(3 Slot)	189	836.6	23.38	22.68
(3 3101)	251	848.8	23.34	22.64
EDGE (4 Slot)	128	824.2	22.57	21.85
	189	836.6	22.55	21.76
	251	848.8	22.48	21.73

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PCS 1900:

Mode	Frequency (MHz)	Reference Power	Peak Power	Tolerance	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
	1850.2	30	29.58	-0.42	28.84	-9	19.84
GSM1900	1880	30	29.47	-0.53	28.82	-9	19.82
	1909.8	30	29.44	-0.56	28.79	-9	19.79
00004000	1850.2	30	29.52	-0.48	28.71	-9	19.71
GPRS1900	1880	30	29.41	-0.59	28.66	-9	19.66
(1 Slot)	1909.8	30	29.38	-0.62	28.61	-9	19.61
CDDC4000	1850.2	27	26.56	-0.44	25.76	-6	19.76
GPRS1900	1880	27	26.47	-0.53	25.64	-6	19.64
(2 Slot)	1909.8	27	26.45	-0.55	25.62	-6	19.62
CDDC1000	1850.2	25.23	24.56	-0.67	23.76	-4.26	19.5
GPRS1900	1880	25.23	24.44	-0.79	23.72	-4.26	19.46
(3 Slot)	1909.8	25.23	24.41	-0.82	23.7	-4.26	19.44
CDDC4000	1850.2	24	23.48	-0.52	22.76	-3	19.76
GPRS1900	1880	24	23.46	-0.54	22.73	-3	19.73
(4 Slot)	1909.8	24	23.43	-0.57	22.71	-3	19.71

Mode	Channel	Frequency	Peak Power	Avg.Burst Power
Wiode		(MHz)	(dBm)	(dBm)
EDGE	512	1850.2	25.65	25.21
(1 Slot)	661	1880	25.57	25.16
(1 3101)	810	1909.8	25.54	25.13
EDGE	512	1850.2	24.46	23.75
(2 Slot)	661	1880	24.36	23.66
(2 3101)	810	1909.8	24.35	23.63
EDGE	512	1850.2	22.47	22.14
(3 Slot)	661	1880	22.38	22.13
(3 3101)	810	1909.8	22.36	22.05
EDGE	512	1850.2	21.64	20.86
	661	1880	21.57	20.76
(4 Slot)	810	1909.8	21.52	20.74

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According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)	
For all combinations of ,DPDCH,DPCCH	0≤ CM≤3.5	MAY(CM 1 0)	
HS-DPDCH,E-DPDCH and E-DPCCH	05 CIVIS3.5	MAX(CM-1,0)	

Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH,

HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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6.2 RADIATED OUTPUT POWER

6.2.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 were applied.

- 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.
- 2 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
- 3 The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
- 4 From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
- 5 The EUT is then put into continuously transmitting mode at its maximum power level.
- 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.
- 7 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).
- 8 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." Rule Part RSS-132, Issue 3 specifies "Maximum ERP. The transmitter output power shall be measured in terms of average power. The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts. Rule Part RSS-133, Issue 6 specifies "Maximum e.i.r.p. The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed 2 watts maximum e.i.r.p.

Mode	Nominal Peak Power
GSM 850/EDGE	<=38.45 dBm (7W)
	<=40.60 dBm (11.5W)
PCS 1900/EDGE	<=33 dBm (2W)

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6.2.3 MEASUREMENT RESULT

	Radiated Power (ERP) for GSM 850/EDGE 8				
		Res	Result		
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion	
		(dBm)	Of Max. ERP		
	824.2	30.66	Horizontal	Pass	
	836.6	30.55	Horizontal	Pass	
CCMOEO	848.8	30.52	Horizontal	Pass	
GSM850	824.2	28.87	Vertical	Pass	
	836.6	28.74	Vertical	Pass	
	848.8	28.67	Vertical	Pass	
	824.2	25.64	Horizontal	Pass	
	836.6	25.56	Horizontal	Pass	
EDOE	848.8	25.52	Horizontal	Pass	
EDGE	824.2	25.61	Vertical	Pass	
-	836.6	25.54	Vertical	Pass	
-	848.8	25.49	Vertical	Pass	

Radiated Power (E.I.R.P) for PCS 1900/EDGE 8				
Mode	Frequency	Max. Peak	Polarization	Conclusion
		E.I.R.P.(dBm)	Of Max. E.I.R.P.	
	1850.2	27.67	Horizontal	Pass
	1880.0	27.62	Horizontal	Pass
GSM 1900	1909.8	27.56	Horizontal	Pass
GOW 1300	1850.2	26.57	Vertical	Pass
	1880.0	26.54	Vertical	Pass
	1909.8	26.43	Vertical	Pass
	1850.2	24.44	Horizontal	Pass
	1880.0	24.34	Horizontal	Pass
EDGE -	1909.8	24.33	Horizontal	Pass
EDGE	1850.2	23.39	Vertical	Pass
	1880.0	23.37	Vertical	Pass
	1909.8	23.35	Vertical	Pass

Note: Above is worst mode data.

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6.3. Peak-to-Average Ratio

6.3.1 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).

6.3.2 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. "Rule Part RSS-132, Issue 3 specifies In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission." Rule Part RSS-133, Issue 6 specifies In addition, the transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

6.3.3 MEASUREMENT RESULT

Old ME ACCITEMENT RECOET			
Modes	GSM850(GSM)		
Channel	128	190	251
	(Low)	(Mid)	(High)
Frequency	924.2	926.6	040.0
(MHz)	824.2	836.6	848.8
Peak-To-Average Ratio (dB)/GSM	0.56	0.6	0.59
Peak-To-Average Ratio (dB)/EDGE	0.45	0.42	0.45

Modes		PCS 1900 (GSM)	
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Peak-To-Average Ratio (dB)/GSM	0.74	0.65	0.65
Peak-To-Average Ratio (dB)/EDGE	0.44	0.41	0.41

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7. SPURIOUS EMISSION

7.1 CONDUCTED SPURIOUS EMISSION

7.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT. Determine frequency range for measurements: From CFR 2.1057 and RSS-Gen 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.

Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

Typical Channels for testing of GSM 850/EDGE 8				
Channel	Frequency (MHz)			
128	824.2			
190	836.6			
251	848.8			

Typical Channels for testing of PCS 1900/EDGE 8				
Channel	Frequency (MHz)			
512	1850.2			
661	1880.0			
810	1909.8			

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7.1.2 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.

7.1.3 MEASUREMENT RESULT

PLEASE REFER TO: APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Note: 1. Below 30MHZ no Spurious found and The GSM modes is the worst condition.

2. As no emission found in standby or receive mode, no recording in this report.

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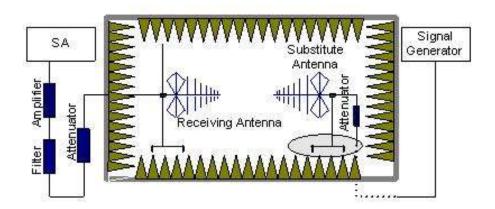
7.2 Radiated Spurious Emission

7.2.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 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 procedures specified in RSS-Gen 4.9 were used for testing. The same parameter, peak power or average power, used for the transmitter output power measurement shall be used for unwanted emission measurements. The search for unwanted emissions shall be from the lowest frequency internally generated or used in the device (local oscillator, intermediate or carrier frequency), or from 30 MHz, whichever is the lower, to the 5th harmonic of the highest frequency generated without exceeding40 GHz. The measurements were performed on all modes(GPRS/EGPRS 850, GPRS/EGPRS 1900) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

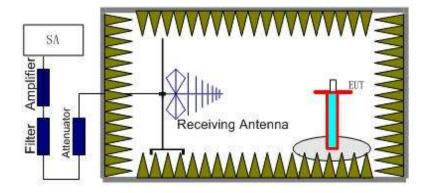
The procedure of radiated spurious emissions is as follows:

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 1900 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 any band 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}

7.2.2 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee'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.

Note: only result the worst condition of each test mode:

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7.2.3 MEASUREMENT RESULT

GSM 850:

	The Worst Test Results for Channel 251/848.8 MHz								
Frequency(MHz)	(MHz) Power(dBm) ARpl (dBm)		PMea(dBm)	Limit(dBm)	Polarity				
1685.23	-43.85	-5.01	-48.86	-13.00	Horizontal				
2456.12	-46.67	-2.18	-48.85	-13.00	Vertical				
3645.78	-48.27	3.46	-44.81	-13.00	Vertical				
4536.58	-45.24	2.79	-42.45	-13.00	Horizontal				

GSM 850(EDGE 8):

···· •••(== • - • /·	555(== 5= 5)							
The Worst Test Results for Channel 251/848.8 MHz								
Frequency(MHz) Power(dBm) ARpl (dBm) PMea(dBm)				Limit(dBm)	Polarity			
1696.28	-47.46	-2.26	-49.72	-13.00	Horizontal			
2162.19	-46.41	-3.12	-49.53	-13.00	Vertical			
3645.78	-45.38	-1.74	-47.12	-13.00	Vertical			
9257.65	-42.67	8.46	-34.21	-13.00	Horizontal			

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PCS 1900:

	The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity			
1429.36	-46.49	-3.22	-49.71	-13.00	Vertical			
2563.47	-47.51	-0.24	-47.75	-13.00	Vertical			
3645.26	-47.33	3.98	-43.35	-13.00	Horizontal			
4563.56	-46.27	11.56	-34.71	-13.00	Vertical			
5689.25	-45.63	17.89	-27.74	-13.00	Horizontal			

PCS 1900(EDGE 8):

	The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	Power(dBm)	ARpl (dBm)	PMea(dBm)	Limit (dBm)	Polarity			
1430.15	-53.57	2.7	-50.87	-13.00	Vertical			
9367.91	-53.76	11.6	-42.16	-13.00	Vertical			
13356.68	-53.38	14.89	-38.49	-13.00	Horizontal			
15249.71	-54.23	13.87	-40.36	-13.00	Vertical			
17913.63	-57.47	19.76	-37.71	-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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8. MAINS CONDUCTED EMISSION

8.1 MEASUREMENT METHOD

The measurement procedure specified in ANSI C63.4-2003 and RSS-GEN was used for testing. Conducted Emission was measured with travel charger.

8.2 PROVISIONS APPLICABLE

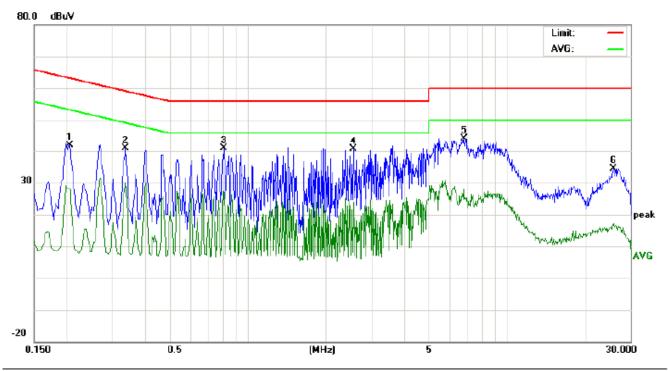
Frequency of Emission (MHz)	Conducted Limit(dBuV)				
, ,	Quasi-Peak	Average			
0.15 – 0.5	66 to 56 *	56 to 46 *			
0.5 – 5	56	46			
5 – 30	60	50			
*Decreases with the logarithm of the frequency.					
*The lower limit shall apply at the transition frequency.					

Note: The GSM850 mode is the worst condition and the test result as following:

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8.3 MEASUREMENT RESULT

LINE CONDUCTED EMISSION - L



Site: Conduction Phase: L1 Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %

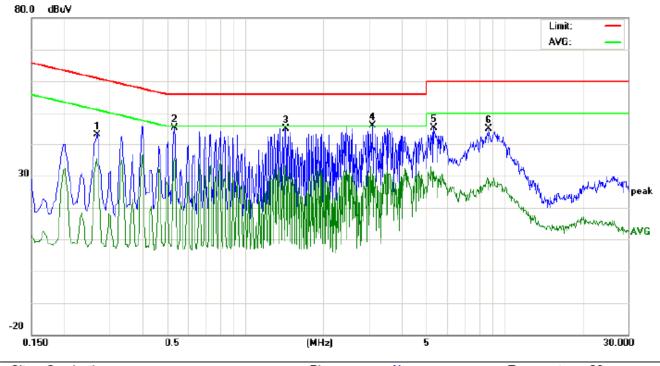
EUT: Tablet PC

M/N: T2 Mode: Call Note:

No.	Freq.		ding_L (dBuV)		Correct Factor	Me	asuren (dBuV)		ı	nit uV)	Mai (d	rgin IB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2060	31.53		17.92	10.22	41.75		28.14	63.36	53.36	-21.61	-25.22	Р	
2	0.3379	30.48		19.88	10.30	40.78		30.18	59.25	49.25	-18.47	-19.07	Р	
3	0.8100	30.59		16.76	10.29	40.88		27.05	56.00	46.00	-15.12	-18.95	Р	
4	2.5579	30.14		13.54	10.44	40.58		23.98	56.00	46.00	-15.42	-22.02	Р	
5	6.8259	33.91		17.52	10.34	44.25		27.86	60.00	50.00	-15.75	-22.14	Р	
6	25.8300	24.25		7.07	10.11	34.36		17.18	60.00	50.00	-25.64	-32.82	Р	

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LINE CONDUCTED EMISSION - N



Site: Conduction Phase: N Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %

EUT: Tablet PC

M/N: T2 Mode: Call Note:

No.	Freq.		ding_L (dBuV)		Correct Factor		asuren (dBuV)		ı	nit uV)	Mai (d	rgin IB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	Q.	AVG	QP	AVG	QP	AVG		
1	0.2700	32.88		22.72	10.28	43.16		33.00	61.12	51.12	-17.96	-18.12	Р	
2	0.5340	34.96		25.34	10.37	45.33		35.71	56.00	46.00	-10.67	-10.29	Р	
3	1.4339	34.78		22.83	10.38	45.16		33.21	56.00	46.00	-10.84	-12.79	Р	
4	3.1018	35.54		20.00	10.54	46.08		30.54	56.00	46.00	-9.92	-15.46	Р	
5	5.3379	35.12		21.07	10.25	45.37		31.32	60.00	50.00	-14.63	-18.68	Р	
6	8.6979	34.86		18.77	10.29	45.15		29.06	60.00	50.00	-14.85	-20.94	Р	

Note: The GSM850 mode is the worst condition.

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9. FREQUENCY STABILITY

9.1 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° C.
- 3 , With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band , channel 190 for GSM 850 band, channel 9400 for UMTS band II and channel 4175 for UMTS band V 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 +/- 0.5°C during the measurement procedure.

9.2 PROVISIONS APPLICABLE

9.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 6.3VDC and 8.5VDC, with a nominal voltage of 7.4VDC. 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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9.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20°C. According to the standard of RSS-132 §4 and RSS-133 §6.3, the carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

9.3 MEASUREMENT RESULT (WORST)

	Frequency Error Against Voltage for GSM850/EDGE 8 band								
	G	SM	EDGE 8						
Voltage(V)	Frequency error(Hz) Frequency error(p		Frequency error(Hz)	Frequency error(ppm)					
3.4	17	0.020	19	0.023					
3.7	18	0.022	18	0.022					
4.2	26	0.031	25	0.030					

	Frequency Error Against Temperature for GSM850/EDGE 8 band								
	GS	M	EDG	E 8					
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)	Frequency error(Hz)	Frequency error(ppm)					
-10	23	0.028	26	0.031					
0	25	0.030	24	0.029					
10	24	0.029	23	0.028					
20	23	0.028	21	0.025					
30	22	0.026	24	0.029					
40	27	0.032	25	0.030					
50	21	0.025	26	0.031					

Note: The EUT doesn't work below -10°C

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Frequency Error Against Voltage for PCS1900/EDGE 8 band								
	G	SM	EDGE 8					
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)	Frequency error(Hz)	Frequency error(ppm)				
3.4	22	0.012	21	0.011				
3.7	26	0.014	24	0.013				
4.2	25	0.013	23	0.012				

	Frequency Error Against Voltage for PCS1900/EDGE 8 band							
	GS	М	EDGE 8					
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)	Frequency error(Hz)	Frequency error(ppm)				
-10	25	0.013	22	0.012				
0	25	0.013	25	0.013				
10	21	0.011	23	0.012				
20	19	0.010	21	0.011				
30	24	0.013	26	0.014				
40	21	0.011	25	0.013				
50	24	0.013	24	0.013				

Note: The EUT doesn't work below -10 $^{\circ}\mathrm{C}$

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10. OCCUPIED BANDWIDTH

10.1 MEASUREMENT METHOD

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.

10.2 PROVISIONS APPLICABLE

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

10.3 MEASUREMENT RESULT

Occupied Bandwidth (99%) for GSM850 band								
	Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)					
GSM	Low Channel	824.2	243.16					
GSIVI	Middle Channel	836.6	245.95					
	High Channel	848.8	242.94					
	Low Channel	824.2	267.61					
EDGE 8	Middle Channel	836.6	265.95					
	High Channel	848.8	272.05					

Occupied Bandwidth (99%) for PCS1900 band						
GSM	Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)			
	Low Channel	1850.2	243.28			
	Middle Channel	1880.0	244.08			
	High Channel	1909.8	246.17			
EDGE 8	Low Channel	1850.2	249.31			
	Middle Channel	1880.0	245.01			
	High Channel	1909.8	248.26			

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11. EMISSION BANDWIDTH

11.1 MEASUREMENT METHOD

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.

11.2 PROVISIONS APPLICABLE

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

11.3 MEASUREMENT RESULT

Emission Bandwidth (-26dBc) for GSM850 (EDGE 8) band						
GSM	Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)			
	Low Channel	824.2	315.14			
	Middle Channel	836.6	314.56			
	High Channel	848.8	309.32			
EDGE 8	Low Channel	824.2	338.62			
	Middle Channel	836.6	339.86			
	High Channel	848.8	355.60			

Emission Bandwidth (-26dBc) for PCS1900 (EDGE 8) band						
GSM	Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)			
	Low Channel	1850.2	312.97			
	Middle Channel	1880.0	312.03			
	High Channel	1909.8	310.04			
EDGE 8	Low Channel	1850.2	318.01			
	Middle Channel	1880.0	321.62			
	High Channel	1909.8	324.08			

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12. BAND EDGE

12.1 MEASUREMENT METHOD

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.

12.2 PROVISIONS APPLICABLE

As Specified in FCC rules of 22.917(a) and 24.238(a)/ IC RSS-132§4.5 and /IC RSS-133§6.5

12.3 MEASUREMENT RESULT

Please refers to Appendix III for compliance test plots for band edges

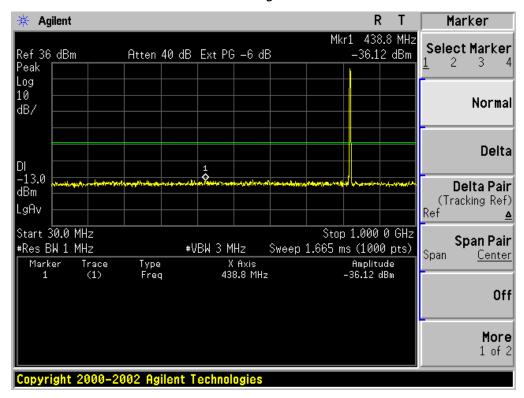
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APPENDIX A TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

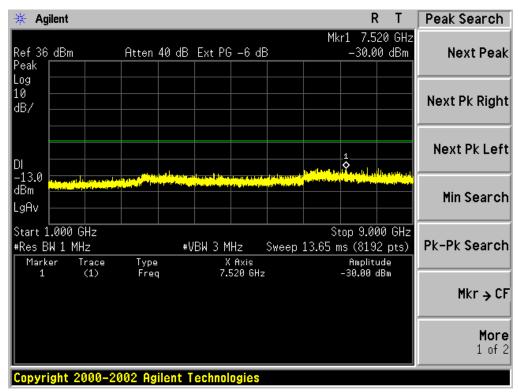
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CONDUCTED EMISSION IN GSM850 BAND

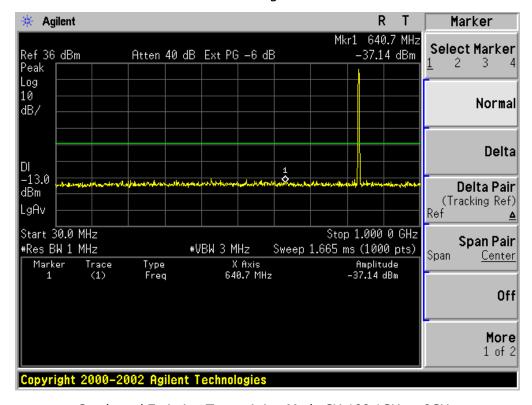
Conducted Emission Transmitting Mode CH 128 30MHz - 1GHz



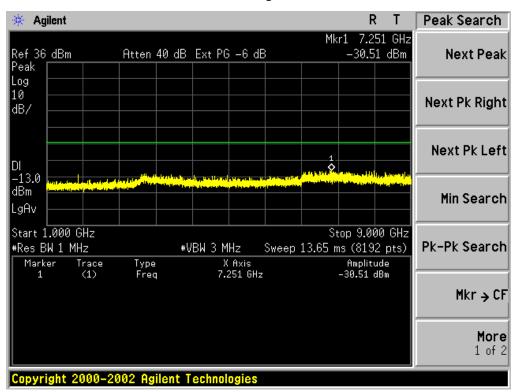
Conducted Emission Transmitting Mode CH 128 1GHz - 9GHz



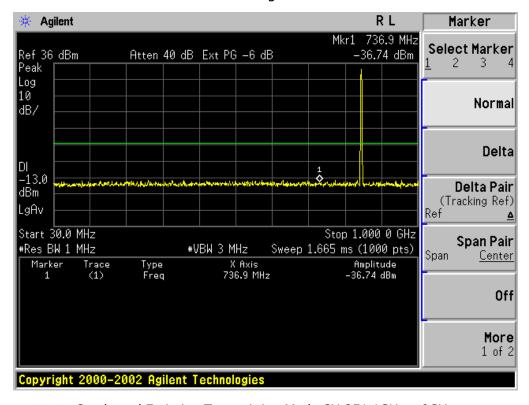
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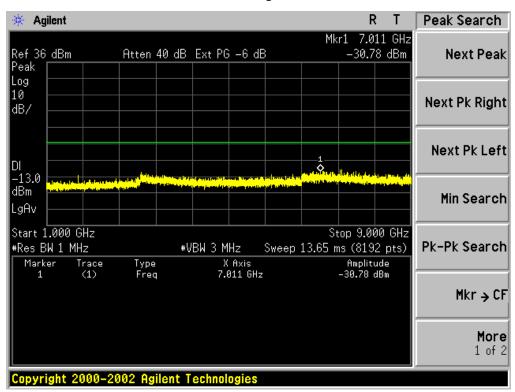
Conducted Emission Transmitting Mode CH 190 1GHz - 9GHz



Conducted Emission Transmitting Mode CH 251 30MHz - 1GHz



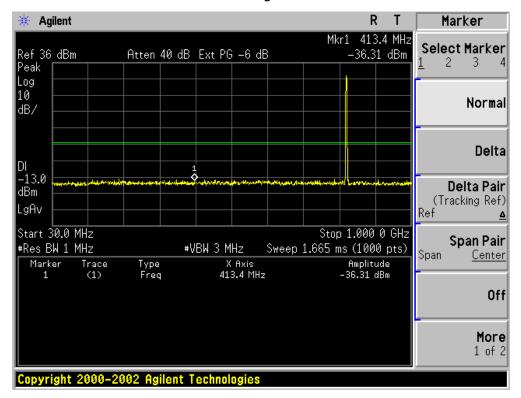
Conducted Emission Transmitting Mode CH 251 1GHz - 9GHz



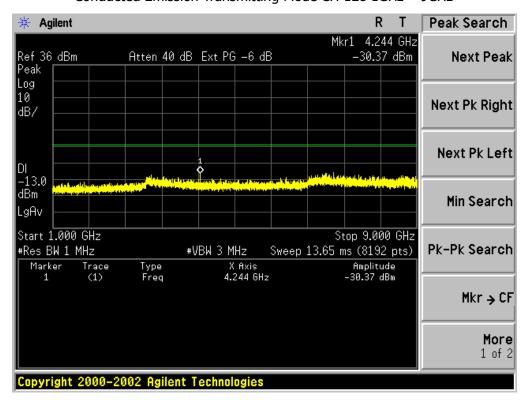
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CONDUCTED EMISSION IN GSM850 (EDGE 8) BAND

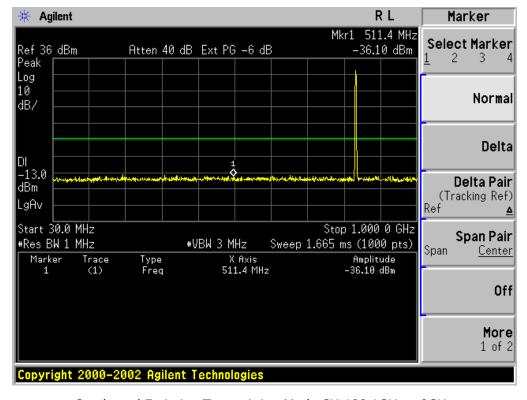
Conducted Emission Transmitting Mode CH 128 30MHz - 1GHz



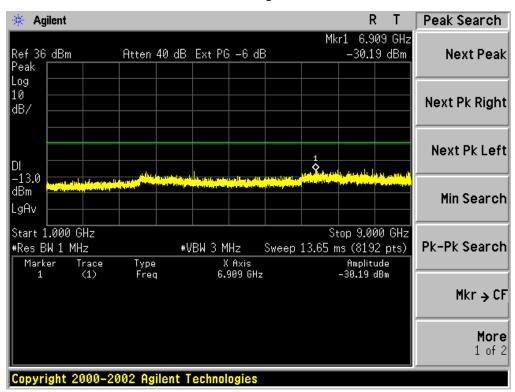
Conducted Emission Transmitting Mode CH 128 1GHz - 9GHz



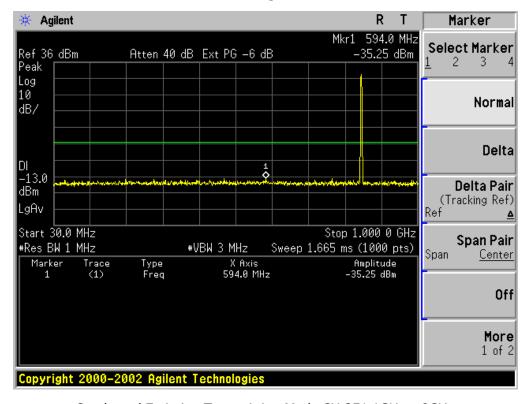
Conducted Emission Transmitting Mode CH 190 30MHz - 1GHz



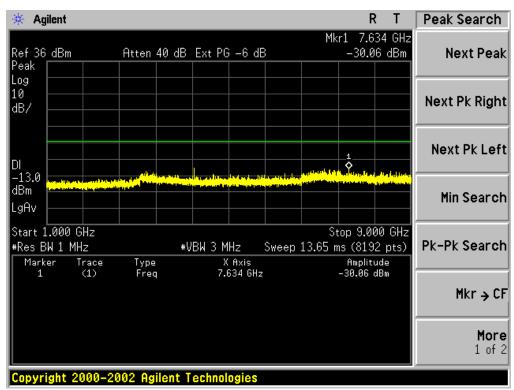
Conducted Emission Transmitting Mode CH 190 1GHz - 9GHz



Conducted Emission Transmitting Mode CH 251 30MHz - 1GHz



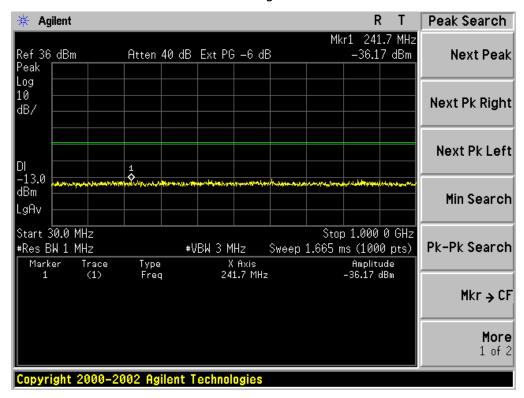
Conducted Emission Transmitting Mode CH 251 1GHz – 9GHz



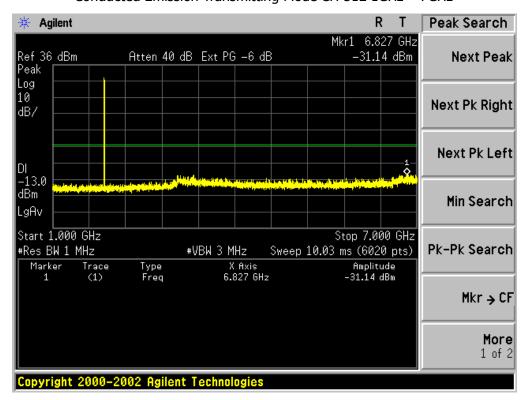
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CONDUCTED EMISSION IN PCS1900 BAND

Conducted Emission Transmitting Mode CH 512 30MHz - 1GHz

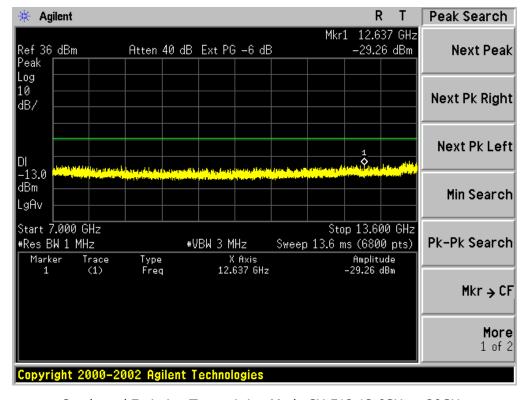


Conducted Emission Transmitting Mode CH 512 1GHz - 7GHz

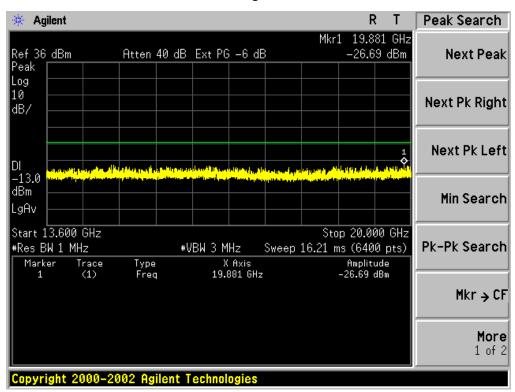


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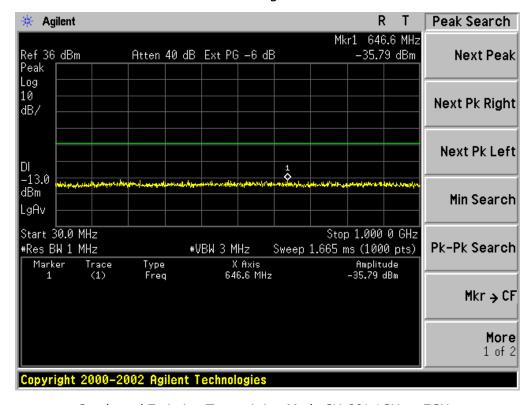
Conducted Emission Transmitting Mode CH 512 7GHz - 13.6GHz



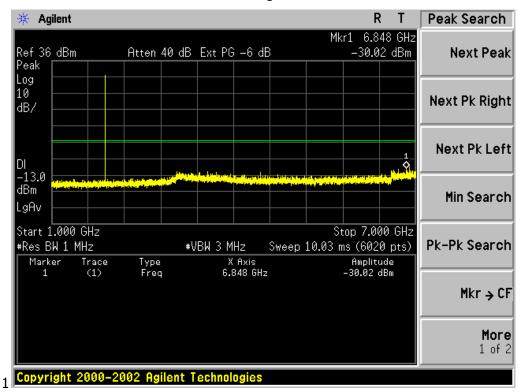
Conducted Emission Transmitting Mode CH 512 13.6GHz – 20GHz



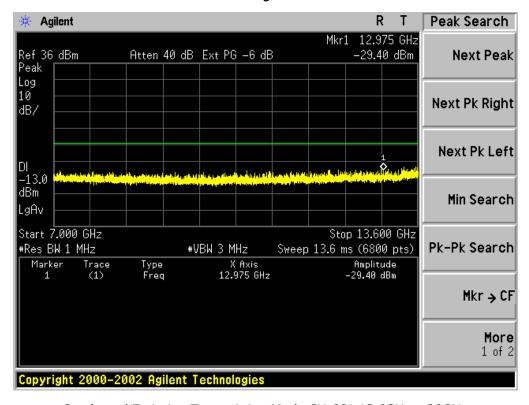
Conducted Emission Transmitting Mode CH 661 30MHz - 1GHz



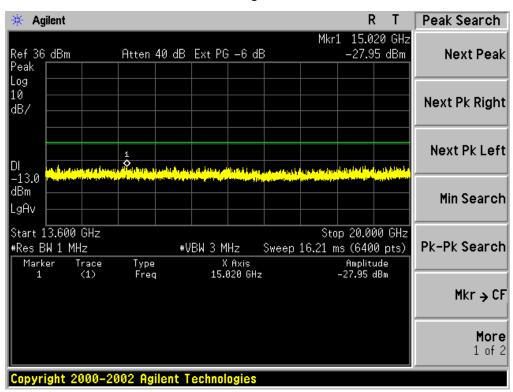
Conducted Emission Transmitting Mode CH 661 1GHz - 7GHz



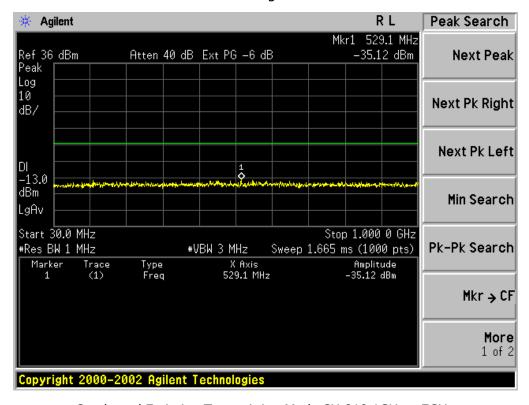
Conducted Emission Transmitting Mode CH 661 7GHz - 13.6GHz



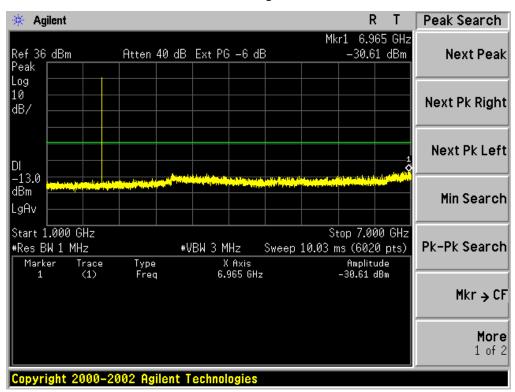
Conducted Emission Transmitting Mode CH 661 13.6GHz – 20GHz



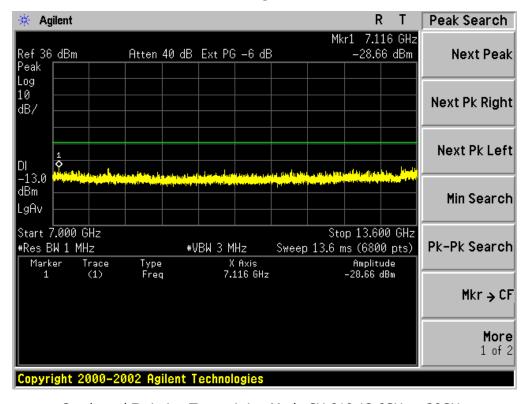
Conducted Emission Transmitting Mode CH 810 30MHz - 1GHz



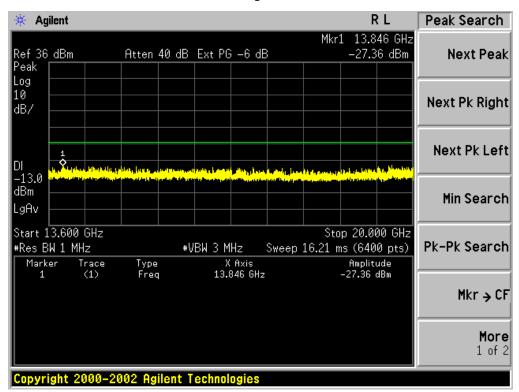
Conducted Emission Transmitting Mode CH 810 1GHz - 7GHz



Conducted Emission Transmitting Mode CH 810 7GHz - 13.6GHz



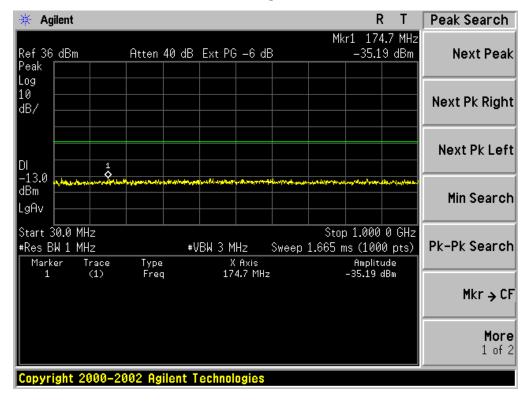
Conducted Emission Transmitting Mode CH 810 13.6GHz – 20GHz



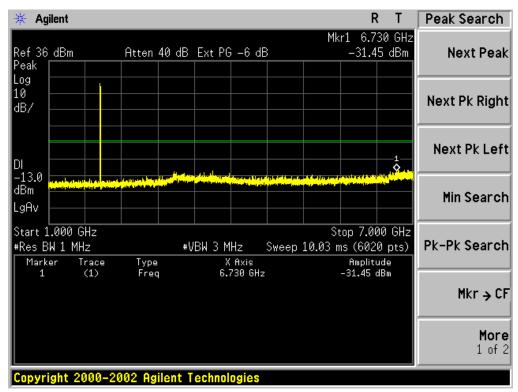
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CONDUCTED EMISSION IN PCS1900 (EDGE 8) BAND

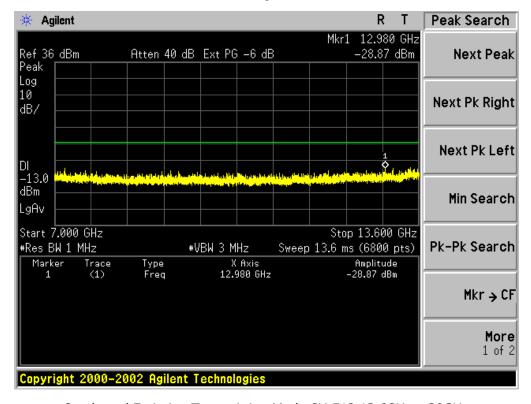
Conducted Emission Transmitting Mode CH 512 30MHz - 1GHz



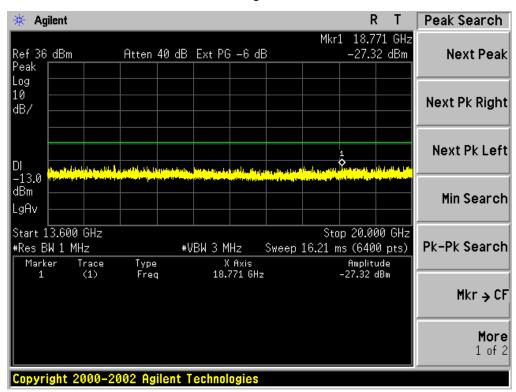
Conducted Emission Transmitting Mode CH 512 1GHz – 7GHz



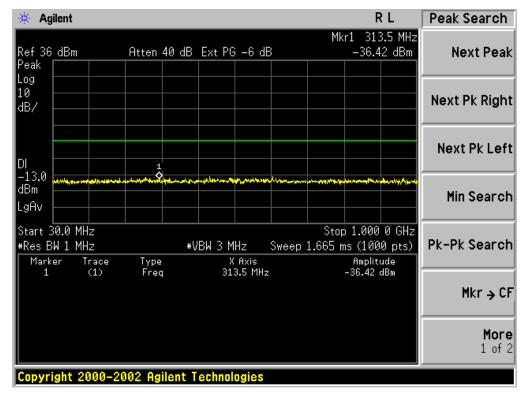
Conducted Emission Transmitting Mode CH 512 7GHz - 13.6GHz



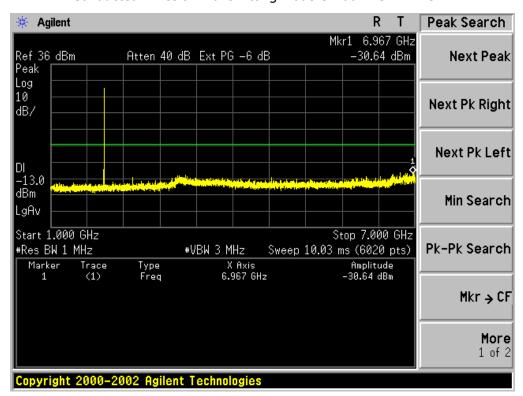
Conducted Emission Transmitting Mode CH 512 13.6GHz – 20GHz



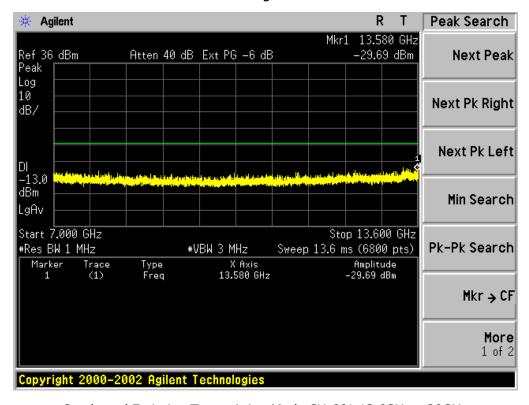
Conducted Emission Transmitting Mode CH 661 30MHz - 1GHz



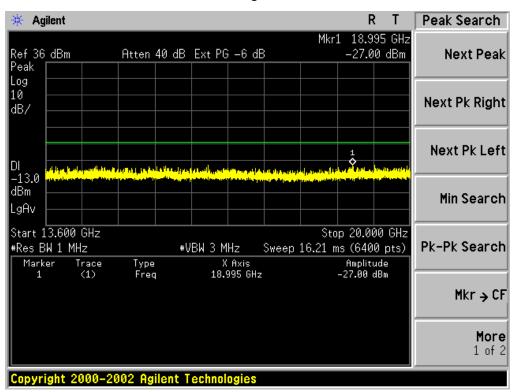
Conducted Emission Transmitting Mode CH 661 1GHz – 7GHz



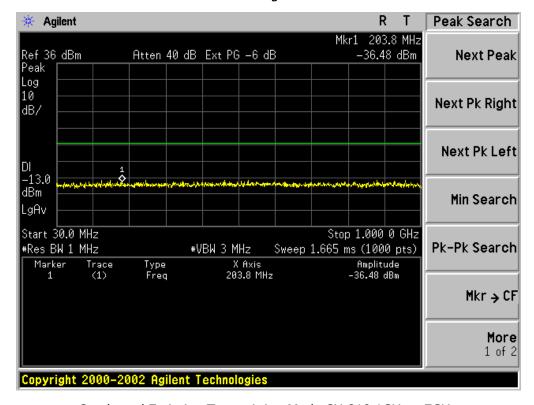
Conducted Emission Transmitting Mode CH 661 7GHz - 13.6GHz



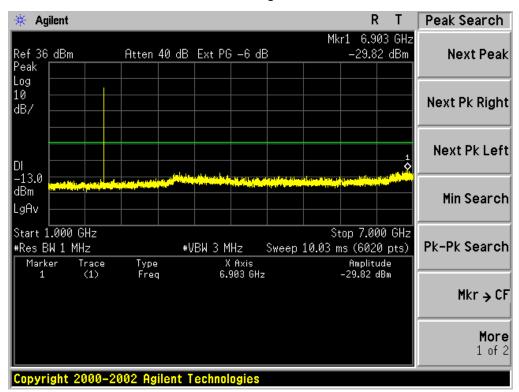
Conducted Emission Transmitting Mode CH 661 13.6GHz – 20GHz



Conducted Emission Transmitting Mode CH 810 30MHz - 1GHz

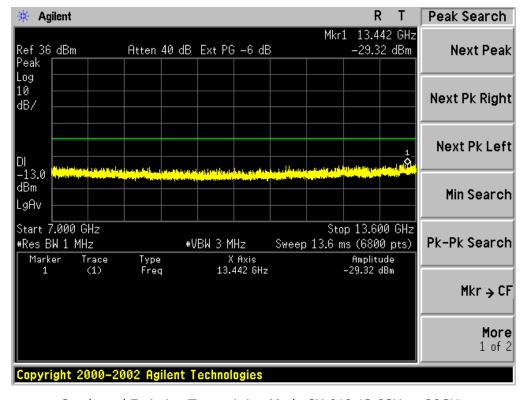


Conducted Emission Transmitting Mode CH 810 1GHz - 7GHz

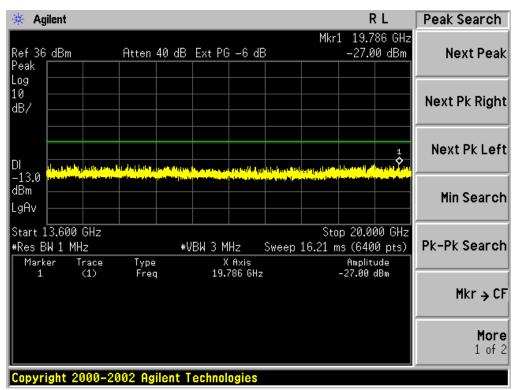


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Conducted Emission Transmitting Mode CH 810 7GHz - 13.6GHz



Conducted Emission Transmitting Mode CH 810 13.6GHz – 20GHz

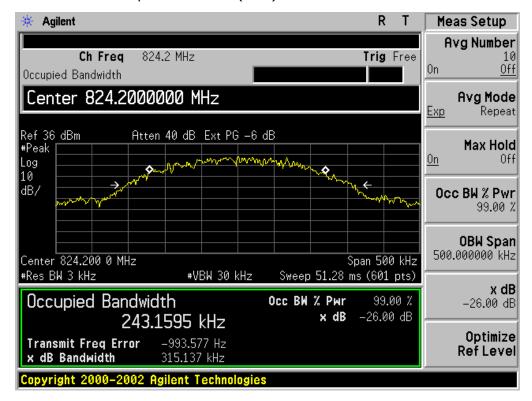


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PPENDIX B TEST PLOTS FOR OCCUPIED BANDWIDTH (99%) EMISSION BANDWIDTH (-26dBC)

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Occupied Bandwidth (99%) GSM 850 BAND CH 128

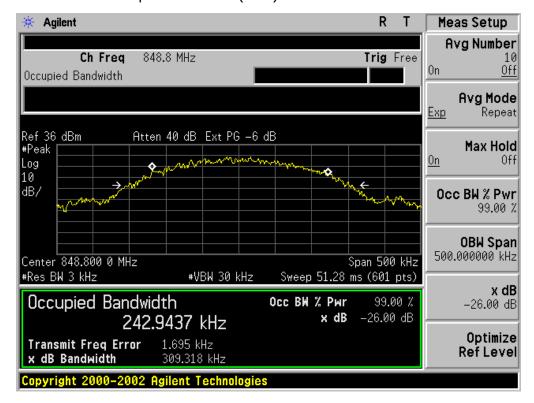


Occupied Bandwidth (99%) GSM 850 BAND CH 190

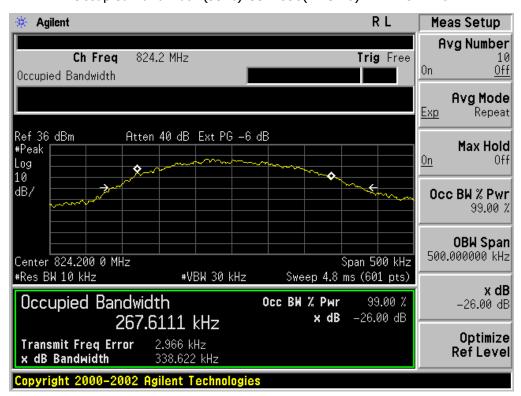


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Occupied Bandwidth (99%) GSM 850 BAND CH 251

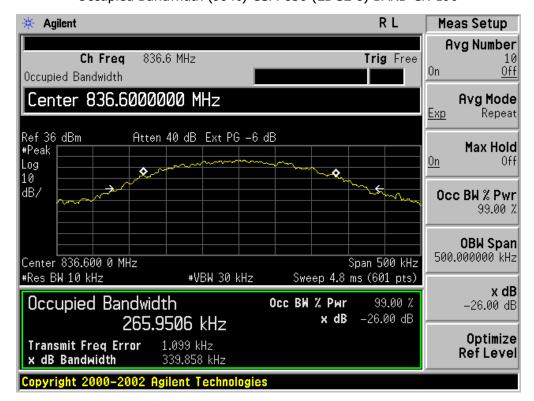


Occupied Bandwidth (99%) GSM 850(EDGE 8) BAND CH 128

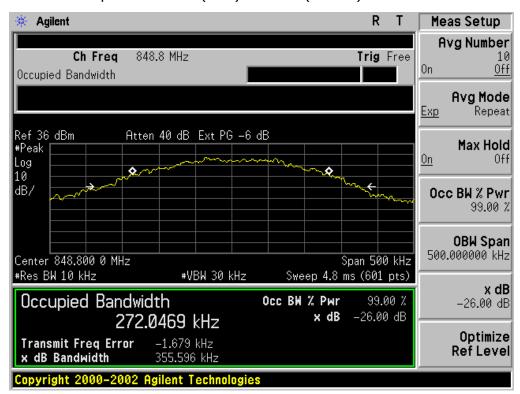


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Occupied Bandwidth (99%) GSM 850 (EDGE 8) BAND CH 190

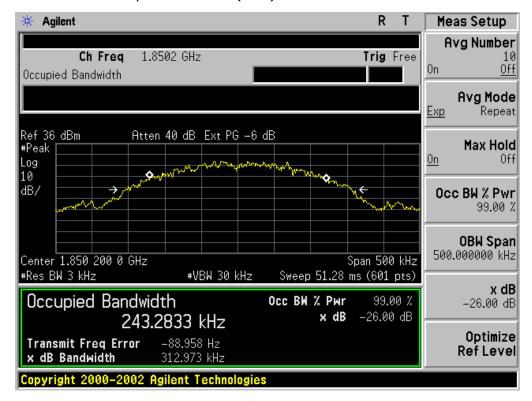


Occupied Bandwidth (99%) GSM 850 (EDGE 8) BAND CH 251

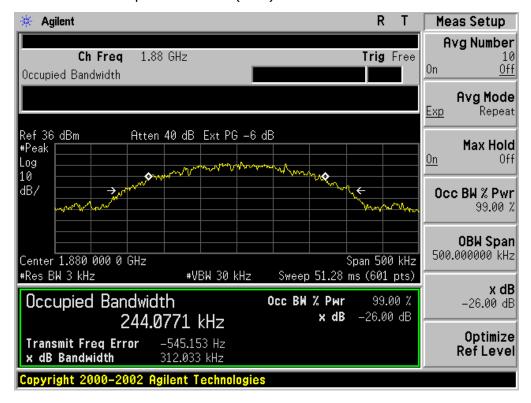


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Occupied Bandwidth (99%) PCS 1900 BAND CH 512

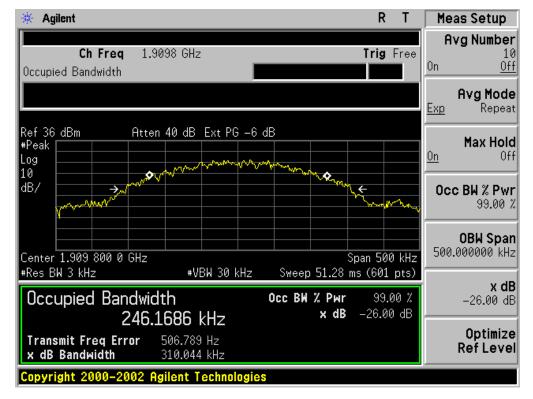


Occupied Bandwidth (99%) PCS 1900 BAND CH 661

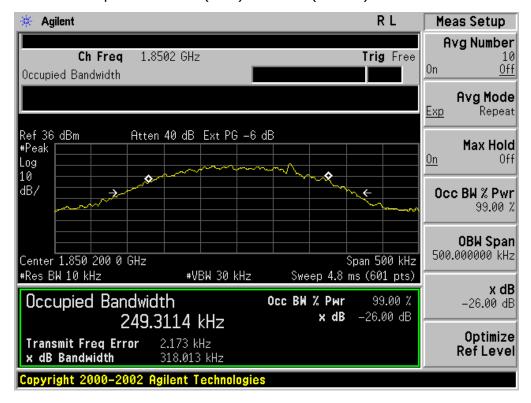


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Occupied Bandwidth (99%) PCS 1900 BAND CH 810

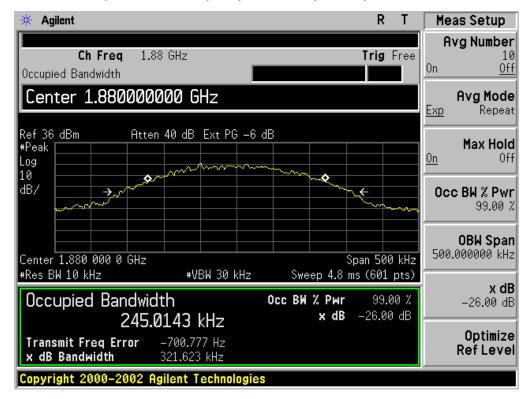


Occupied Bandwidth (99%) PCS 1900 (EDGE 8) BAND CH 512

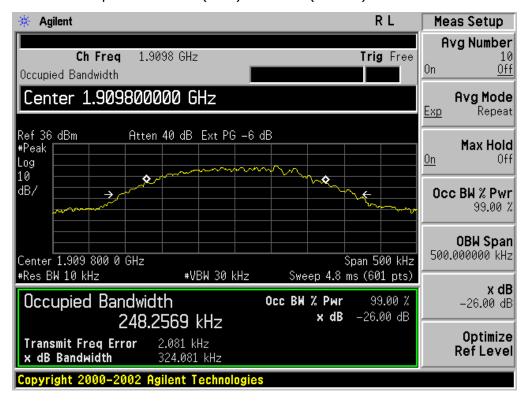


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Occupied Bandwidth (99%) PCS 1900 (EDGE 8) BAND CH 661



Occupied Bandwidth (99%) PCS 1900 (EDGE 8) BAND CH 810

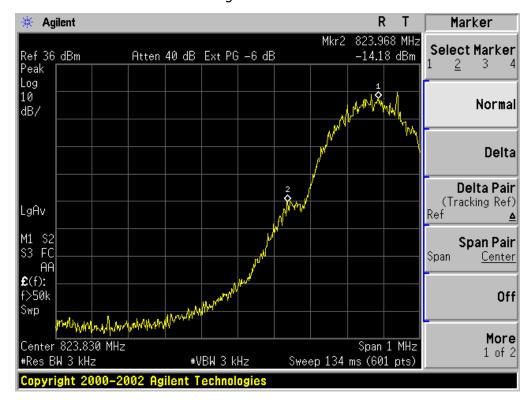


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APPENDIX C TEST PLOTS FOR BAND EDGES

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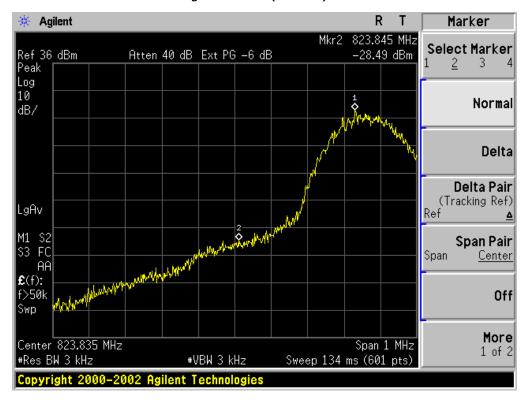
Low Band Edge GSM 850 BAND CH 128



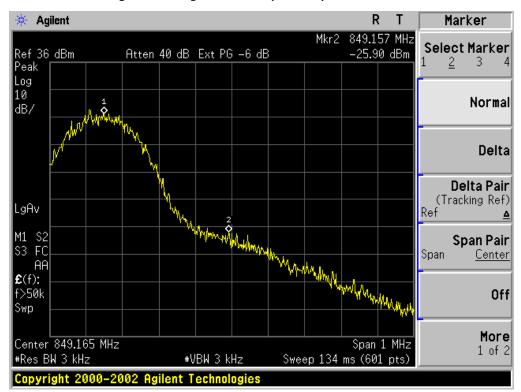
High Band Edge GSM 850 BAND CH 251



Low Band Edge GSM 850 (EDGE 8) BAND CH 128

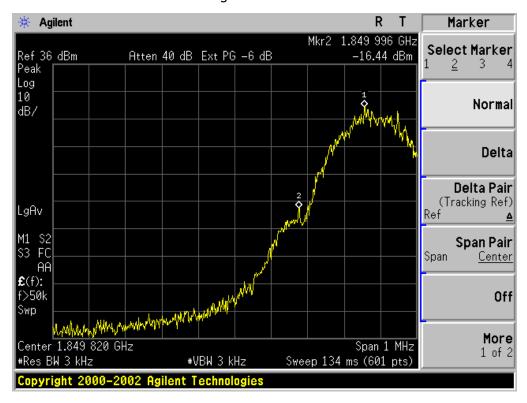


High Band Edge GSM 850 (EDGE 8) BAND CH 251

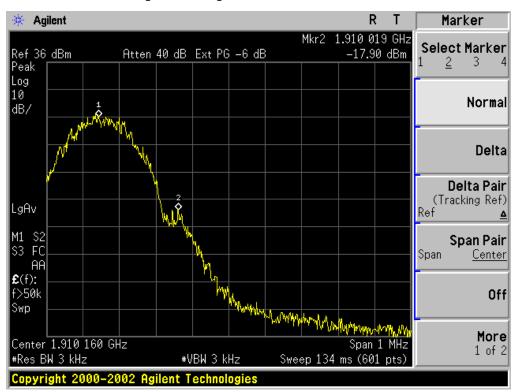


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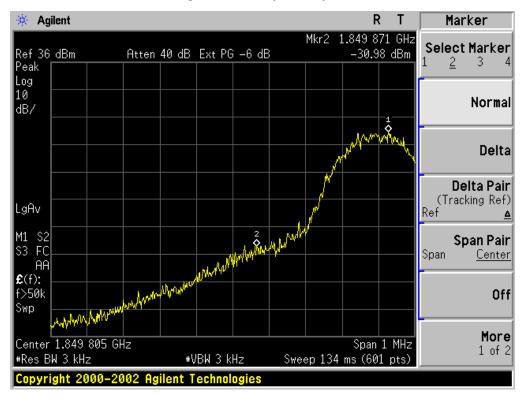
Low Band Edge PCS 1900 BAND CH 512



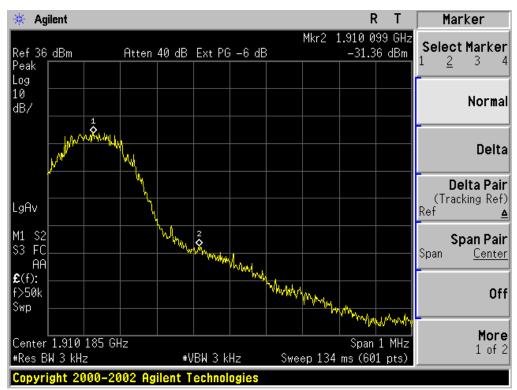
High Band Edge PCS 1900 BAND CH 810



Low Band Edge PCS 1900 (EDGE 8) BAND CH 512



High Band Edge PCS 1900 (EDGE 8) BAND CH 810



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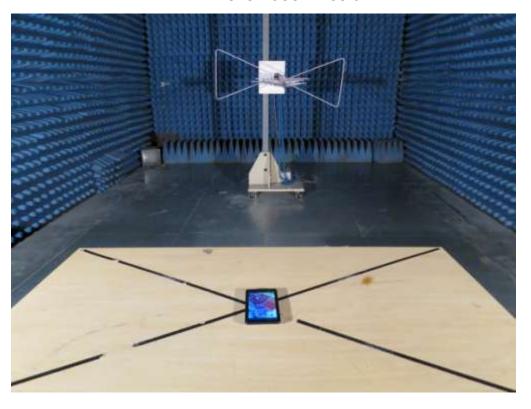
APPENDIX D PHOTOGRAPHS OF TEST SETUP

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CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION



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APPENDIX E PHOTOGRAPHS OF EUT

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TOTAL VIEW OF EUT



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

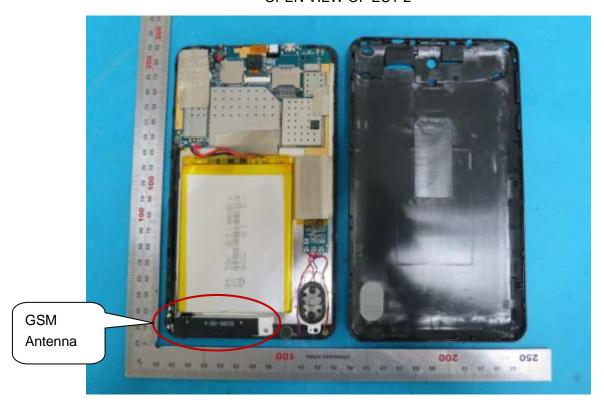


OPEN VIEW OF EUT-1

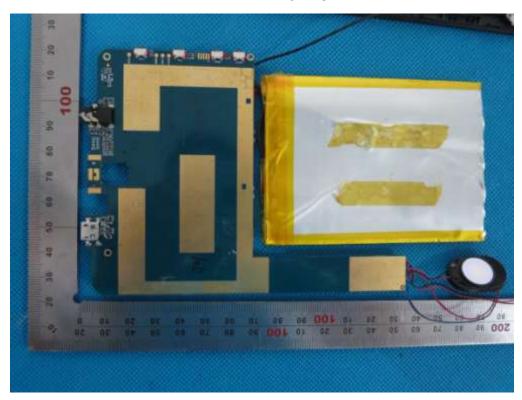


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OPEN VIEW OF EUT-2

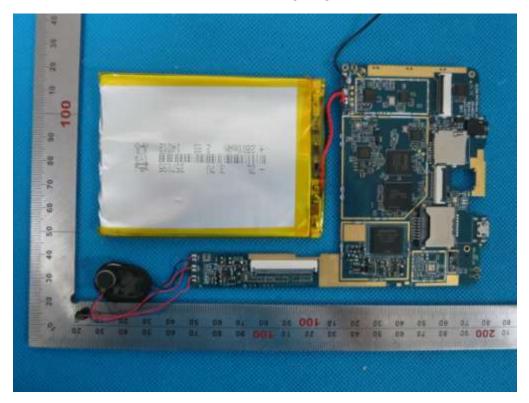


INTERNAL VIEW OF EUT-1



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INTERNAL VIEW OF EUT-2



----END OF REPORT----