



RADIO TEST REPORT

Report No: STS1504038F02

Issued for

HK AONYSTAR CO., LIMITED

ROOM 1103, HANG SENG MONGKOK BUILDING, 677 NATHAN ROAD, MONGKOK, KOWLOON HONGKONG

Product Name:	GSM MOBILE PHONE
Brand Name:	MYCOM,D3,N-Tech,AONY,Vinovo
Model No.:	DD
Series Model:	D300,C5,C2,G510
FCC ID:	2AB7A-201501
Test Standard:	FCC Part 22H and 24E

Est SAMBROVAL

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TEST RESULT CERTIFICATION

Applicant's name	HK AONYSTAR CO.,LIMITED
Address	ROOM 1103,HANG SENG MONGKOK BUILDING,677 NATHAN
	ROAD,MONGKOK,KOWLOON HONGKONG
Manufacture's Name	HK AONYSTAR CO.,LIMITED
Address	ROOM 1103,HANG SENG MONGKOK BUILDING,677 NATHAN
	ROAD,MONGKOK,KOWLOON HONGKONG
Product name	GSM MOBILE PHONE
Band name	MYCOM,D3,N-Tech,AONY,Vinovo
Model and/or type reference	DD
Standards	FCC Part 22H and 24E
Test procedure	TIA 603 C

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test ResultPass

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1.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of ansi C63.10: 2009; TIA 603 C and fcc cfr 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057

Item Number		Item Description	FCC Rules	
1	Output	Conducted output power	22.042(a) / 24.222 (b)	
'	Power	Radiated output power	22.913(a) / 24.232 (b)	
	Courious	Conducted		
2	Spurious Emission	spurious emission	2.1051 / 22.917 / 24.238	
		Radiated spurious emission		
3	Frequency S	tability	2.1055 /24.235	
4	Occupied Ba	andwidth	2.1049 (h)(i)	
5	Emission Bandwidth		22.917(b) / 24.238 (b)	
6	Band Edge		22.917(b) / 24.238 (b)	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building B, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen,

China.

CNAS Registration No.: L7659

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%



2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	GSM MOBILE PHONE
Model No:	DD
Series Model:	D300,C5,C2,G510
Model difference:	They are different only for model name.
Hardware version:	
Software version:	
FCC ID:	2AB7A-201501
Frequency Bands:	☐ GSM 850 ☐ PCS 1900 (U.S. Bands) ☐ GSM 900 ☐ DCS 1800 (Non-U.S. Bands) U.S. Bands: ☐ UMTS FDD Band II ☐ UMTS FDD Band V Non-U.S. Bands: ☐ UMTS FDD Band I ☐ UMTS FDD Band VIII
Max RF Output Power:	GSM850:32.09dBm,GSM1900:29.36dBm
Type of Emission:	GSM(850):247KGXW: GSM(1900):247KGXW GPRS(850):246KGXW; GPRS(1900):250KGXW EDGE(850):247KG7W: EDGE(1900):250KG7W
SIM CARD	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time
Antenna:	PIFA Antenna
Antenna gain:	0 dBi
Power Supply:	DC 3.7V by battery or DC 5.0V supplied by adapter
Battery parameter:	DC 3.7V/890mAh
Adapter Input:	AC100-240V, 50-60Hz, 150mA
Adapter Output:	DC 5.0V, 500mA
GPRS/EDGE Class	Multi-Class12
Extreme Vol. Limits:	DC3.7 V to 4.2 V (Nominal DC3.7V)
Extreme Temp. Tolerance	-20℃ to +65℃
	2V and Low Voltage 3.4V was declared by manufacturer, The EUT with higher or lower voltage.

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for fcc id: 2AB7A-201501 filing to comply with the fcc part 22H&24E.

2.3 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.

2.4 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.

2.5 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.

2.6 CONFIGURATION OF EUT SYSTEM

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.

EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	GSM MOBIL PHONE	DD	FCC ID: 2AB7A-201501	EUT

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



2.7 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ansi C 63.10: 2009; TIA 603C and fcc cfr 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Communication Tester	Agilent	8960	MY48360751	2014.11.20	2015.11.19
Communication Tester	R&S	CMU200	112012	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.25	2015.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05

3. 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 GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS/EDGES850, GSM/GPRS/EDGE1900, modes have been tested during the test. the worst condition (GPRS/EDGE 850) be recorded in the test report if no other modes test data.



4. OUTPUT POWER

4.1 CONDUCTED OUTPUT POWER

4.1.1 MEASUREMENT METHOD

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/EDGE850, GSM/GPRS/EDGE1900,) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

4.1.2 MEASUREMENT RESULT GSM 850:

Mode	Frequency (MHz)	Peak Power	AVG Power
	824.2	32.09	31.79
GSM850	836.6	31.58	31.24
	848.8	31.39	31.15
CDDCCC	824.2	31.93	31.61
GPRS850	836.6	31.53	31.29
(1 Slot)	848.8	31.15	30.79
ODDOOFO	824.2	30.93	30.59
GPRS850	836.6	30.55	30.30
(2 Slot)	848.8	30.37	30.10
000000	824.2	28.76	28.40
GPRS850	836.6	28.54	28.31
(3 Slot)	848.8	28.19	27.89
ODDOOFO	824.2	27.67	27.28
GPRS850	836.6	27.49	27.18
(4 Slot)	848.8	27.17	26.77
ED0E050	824.2	31.94	31.69
EDGE850	836.6	31.53	31.19
(1 Slot)	848.8	31.09	30.76
ED0E050	824.2	30.94	30.68
EDGE850	836.6	30.48	30.15
(2 Slot)	848.8	30.08	29.76
EDCE050	824.2	28.88	28.63
EDGE850	836.6	28.46	28.16
(3 Slot)	848.8	27.93	27.68
EDCE050	824.2	27.74	27.47
EDGE850 (4 Slot)	836.6	27.41	27.09
(4 3101)	848.8	26.85	26.59



PCS 1900:

Mode	Frequency (MHz)	Peak Power	AVG Power
GSM1900	1850.2	28.11	27.89
	1880	28.64	28.39
	1909.8	29.36	29.11
CDDC4000	1850.2	27.02	26.79
GPRS1900	1880	27.43	27.04
(1 Slot)	1909.8	28.77	28.54
CDDC4000	1850.2	25.93	25.56
GPRS1900	1880	26.28	26.05
(2 Slot)	1909.8	27.64	27.35
CDDC4000	1850.2	23.88	23.57
GPRS1900	1880	24.12	23.72
(3 Slot)	1909.8	25.30	25.14
ODD04000	1850.2	22.71	22.43
GPRS1900	1880	23.05	22.68
(4 Slot)	1909.8	24.20	24.07
ED0E4000	1850.2	27.08	26.79
EDGE1900	1880	27.40	27.18
(1 Slot)	1909.8	28.78	28.45
ED 054000	1850.2	25.97	25.67
EDGE1900	1880	26.31	26.00
(2 Slot)	1909.8	27.68	27.34
ED0E4000	1850.2	23.91	23.60
EDGE1900	1880	24.25	23.91
(3 Slot)	1909.8	25.29	25.16
ED0E4000	1850.2	22.90	22.57
EDGE1900	1880	23.20	22.86
(4 Slot)	1909.8	24.13	24.04

4.2 PEAK-TO-AVERAGE RADIO (PAR) OF TRANSMITTER

4.2.1 STANDARD APPLICABLE

ACCORDING TO §24.232(D), POWER MEASUREMENTS FOR TRANSMISSIONS BY STATIONS AUTHORIZED UNDER THIS SECTION MAY BE

made either in accordance with a Commission-approved average power technique or in compliance with

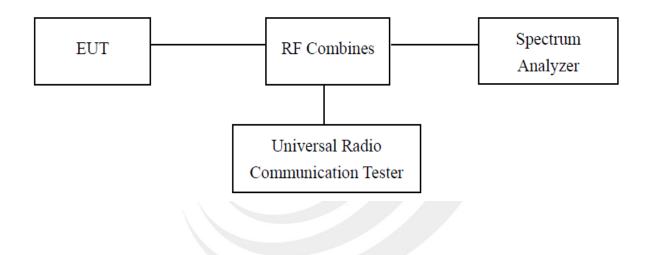
paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the

provisions of §24.51. 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.

4.2.2 TEST PROCEDURE

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded.

TEST CONFIGURATION FOR THE EMISSION BANDWIDTH TESTING:





4.2.3 SUMMARY OF TEST RESULTS

GSM 850:

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
GSM850	824.2	32.09	31.79	0.30	13
	836.6	31.58	31.24	0.34	13
	848.8	31.39	31.15	0.24	13
CDDCCC	824.2	31.93	31.61	0.32	13
GPRS850	836.6	31.53	31.29	0.24	13
(1 Slot)	848.8	31.15	30.79	0.36	13
CDDCCEO	824.2	30.93	30.59	0.34	13
GPRS850	836.6	30.55	30.3	0.25	13
(2 Slot)	848.8	30.37	30.1	0.27	13
CDDCCC	824.2	28.76	28.4	0.36	13
GPRS850	836.6	28.54	28.31	0.23	13
(3 Slot)	848.8	28.19	27.89	0.30	13
CDDCCC	824.2	27.67	27.28	0.39	13
GPRS850	836.6	27.49	27.18	0.31	13
(4 Slot)	848.8	27.17	26.77	0.40	13
EDOE050	824.2	31.94	31.69	0.25	13
EDGE850	836.6	31.53	31.19	0.34	13
(1 Slot)	848.8	31.09	30.76	0.33	13
EDOE050	824.2	30.94	30.68	0.26	13
EDGE850	836.6	30.48	30.15	0.33	13
(2 Slot)	848.8	30.08	29.76	0.32	13
EDOE050	824.2	28.88	28.63	0.25	13
EDGE850	836.6	28.46	28.16	0.30	13
(3 Slot)	848.8	27.93	27.68	0.25	13
ED05050	824.2	27.74	27.47	0.27	13
EDGE850 (4 Slot)	836.6	27.41	27.09	0.32	13
	848.8	26.85	26.59	0.26	13



PCS 1900:

Mode	Frequency (MHz)	Peak Power	AVG Power	PAR	Limit
	1850.2	28.11	27.89	0.22	13
GSM1900	1880	28.64	28.39	0.25	13
	1909.8	29.36	29.11	0.25	13
CDDC4000	1850.2	27.02	26.79	0.23	13
GPRS1900	1880	27.43	27.04	0.39	13
(1 Slot)	1909.8	28.77	28.54	0.23	13
CDDC1000	1850.2	25.93	25.56	0.37	13
GPRS1900	1880	26.28	26.05	0.23	13
(2 Slot)	1909.8	27.64	27.35	0.29	13
CDDC1000	1850.2	23.88	23.57	0.31	13
GPRS1900	1880	24.12	23.72	0.40	13
(3 Slot)	1909.8	25.3	25.14	0.16	13
CDDC1000	1850.2	22.71	22.43	0.28	13
GPRS1900	1880	23.05	22.68	0.37	13
(4 Slot)	1909.8	24.2	24.07	0.13	13
FD0F4000	1850.2	27.08	26.79	0.29	13
EDGE1900	1880	27.4	27.18	0.22	13
(1 Slot)	1909.8	28.78	28.45	0.33	13
ED0E4000	1850.2	25.97	25.67	0.30	13
EDGE1900	1880	26.31	26	0.31	13
(2 Slot)	1909.8	27.68	27.34	0.34	13
ED0E4000	1850.2	23.91	23.6	0.31	13
EDGE1900	1880	24.25	23.91	0.34	13
(3 Slot)	1909.8	25.29	25.16	0.13	13
ED0E4000	1850.2	22.9	22.57	0.33	13
EDGE1900	1880	23.2	22.86	0.34	13
(4 Slot)	1909.8	24.13	24.04	0.09	13



4.3 RADIATED OUTPUT POWER

4.3.1 MEASUREMENT METHOD

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/EDGE850, GSM/GPRS/EDGE1900,) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

The measurements procedures specified in TIA-603C-2009 were applied.

- 1.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.
- 6.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..
 9.Both Horizontal And Vertical Antenna Polarities Were Tested And Performed Pretest To Three Orthogonal Axis. The Worst Case Emissions Were Reported

4.3.2 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."

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



4.3.3 MEASUREMENT RESULT

Radiated Power (ERP) for GSM 850 MHZ							
		Re	sult				
Mode	Frequency	Frequency Max. Peak ERP		Conclusion			
		(dBm)	Of Max. ERP				
	824.2	26.69	Horizontal	Pass			
	824.2	28.79	Vertical	Pass			
GSM850	836.6	26.73	Horizontal	Pass			
GSIVIOSU	836.6	28.76	Vertical	Pass			
	848.8	26.79	Horizontal	Pass			
	848.8	28.86	Vertical	Pass			

Radiated Power (ERP) for GPRS 850 MHZ							
		Re	sult				
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion			
		(dBm)	Of Max. ERP				
	824.2	(dBm)	Horizontal	Pass			
	824.2	27.00	Vertical	Pass			
GPRS850	836.6	29.02	Horizontal	Pass			
GPR3030	836.6	27.00	Vertical	Pass			
	848.8	28.88	Horizontal	Pass			
	848.8	26.88	Vertical	Pass			

Radiated Power (ERP) for EDGE 850 MHZ						
		Re	Result			
Mode	Frequency	Frequency Max. Peak ERP		Conclusion		
		(dBm)	Of Max. ERP			
	824.2	26.12	Horizontal	Pass		
	824.2	27.99	Vertical	Pass		
EDGE850	836.6	26.06	Horizontal	Pass		
EDGE000	836.6	28.10	Vertical	Pass		
	848.8	26.11	Horizontal	Pass		
	848.8	28.05	Vertical	Pass		



Radiated Power (EIRP) for PCS 1900 MHZ							
		Res					
Mode	Frequency	Frequency Max. Peak		Conclusion			
		E.I.R.P.(dBm)	Of Max. E.I.R.P.				
	1850.2	24.06	Horizontal	Pass			
	1850.2	26.05	Vertical	Pass			
PCS1900	1880.0	23.96	Horizontal	Pass			
1 001000	1880.0	26.03	Vertical	Pass			
	1909.8	24.13	Horizontal	Pass			
	1909.8	26.15	Vertical	Pass			

Radiated Power (EIRP) for GPRS 1900 MHZ							
		Re	Result				
Mode	Frequency	Max. Peak	Polarization	Conclusion			
		E.I.R.P.(dBm)	Of Max. E.I.R.P.				
	1850.2	22.10	Horizontal	Pass			
	1850.2	24.15	Vertical	Pass			
GPRS	1880.0	22.03	Horizontal	Pass			
1900	1880.0	24.13	Vertical	Pass			
	1909.8	22.08	Horizontal	Pass			
	1909.8	24.20	Vertical	Pass			

	Radiated Power (EIRP) for EDGE 1900 MHZ						
		Resu					
Mode	Frequency	Frequency Max. Peak		Conclusion			
		E.I.R.P.(dBm)	Of Max. E.I.R.P.				
	1850.2	21.94	Horizontal	Pass			
	1850.2	23.99	Vertical	Pass			
EDGE	1880.0	22.01	Horizontal	Pass			
1900	1880.0	24.02	Vertical	Pass			
	1909.8	21.99	Horizontal	Pass			
	1909.8	24.08	Vertical	Pass			



5. SPURIOUS EMISSION

5.1 SPURIOUS EMISSION

5.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT. 1.Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 20 GHz,. For GSM850, data taken from 30 MHz to 9 GHz.

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

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

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

5.1.2 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.

5.1.3 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.





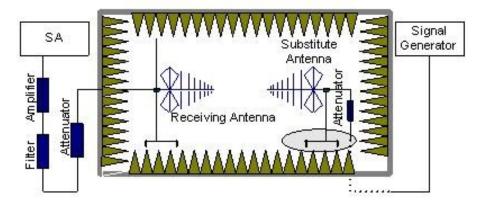
5.2 RADIATED SPURIOUS EMISSION

5.2.1 MEASUREMENT METHOD

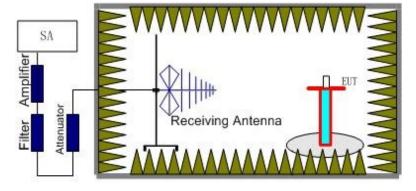
The measurements procedures specified in TIA-603C-2004 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GSM/GPRS/EDGE850, GSM/GPRS/EDGE1900) 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.





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}

5.2.2 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.



5.2.3 MEASUREMENT RESULT GSM 850:

	The	Worst Test Re	esults Channe	I 128/824.2 MI	Нz	
Frequency(MHz	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit	Margin	Polarity
1648.422	-35.63	-4.65	-40.28	-13	-27.28	Horizontal
2472.612	-36.91	-2.21	-39.12	-13	-26.12	Horizontal
3296.821	-31.85	0.21	-31.64	-13	-18.64	Horizontal
1648.422	-38.82	-4.65	-43.47	-13	-30.47	Vertical
2472.612	-41.89	-2.21	-44.1	-13	-31.1	Vertical
3296.821	-42.74	0.21	-42.95	-13	-29.95	Vertical
	The	Worst Test Ro	esults Channe	I 190/836.6 MI	-lz	
Frequency(MHz	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit	Margin	Polarity
1673.213	-36.46	-4.65	-41.11	-13	-28.11	Horizontal
2509.821	-42.95	-2.21	-45.16	-13	-32.16	Horizontal
3346.405	-38.84	0.21	-38.63	-13	-25.63	Horizontal
1673.213	-37.64	-4.65	-42.29	-13	-29.29	Vertical
2509.821	-31.56	-2.21	-33.77	-13	-20.77	Vertical
3346.405	-36.55	0.21	-36.34	-13	-23.34	Vertical
_	The	Worst Test Ro	esults Channe	I 251/848.8 MI	lz	-
Frequency(MHz	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit	Margin	Polarity
1697.612	-35.64	-4.65	-40.29	-13	-27.29	Horizontal
2546.413	-43.22	-2.21	-45.43	-13	-32.43	Horizontal
3395.214	-42.86	0.21	-42.65	-13	-29.65	Horizontal
1697.612	-35.78	-4.65	-40.43	-13	-27.43	Vertical
2546.413	-41.23	-2.21	-43.44	-13	-30.44	Vertical
3395.214	-37.81	0.21	-37.6	-13	-24.6	Vertical

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





PCS 1900:

	The Worst Test Results for Channel 512/1850.2MHz						
Frequency(MH	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Margin	Polarity	
3700.411	-33.64	0.33	-33.31	-13	-20.31	Horizontal	
5550.612	-35.86	4.01	-31.85	-13	-18.85	Horizontal	
7400.823	-42.63	10.7	-31.93	-13	-18.93	Horizontal	
3700.411	-34.61	0.33	-34.28	-13	-21.28	Vertical	
5550.612	-35.85	4.01	-31.84	-13	-18.84	Vertical	
7400.823	-41.64	10.7	-30.94	-13	-17.94	Vertical	
	The W	orst Test Res	ults for Chann	nel 661/1880.0M	Hz	•	
Frequency(MH	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Margin	Polarity	
3760.121	-36.53	0.33	-36.2	-13	-23.2	Horizontal	
5640.231	-32.52	4.01	-28.51	-13	-15.51	Horizontal	
7520.214	-42.64	10.7	-31.94	-13	-18.94	Horizontal	
3760.121	-31.53	0.33	-31.2	-13	-18.2	Vertical	
5640.231	-36.54	4.01	-32.53	-13	-19.53	Vertical	
7520.214	-37.45	10.7	-26.75	-13	-13.75	Vertical	
	The W	orst Test Res	ults for Chann	el 810/1909.8M	Hz		
Frequency(MH	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Margin	Polarity	
3819.623	-32.43	0.33	-32.1	-13	-19.1	Horizontal	
5729.416	-35.52	4.01	-31.51	-13	-18.51	Horizontal	
7639.218	-37.24	10.7	-26.54	-13	-13.54	Horizontal	
3819.623	-32.56	0.33	-32.23	-13	-19.23	Vertical	
5729.416	-41.96	4.01	-37.95	-13	-24.95	Vertical	
7639.218	-38.13	10.7	-27.43	-13	-14.43	Vertical	

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



6. FREQUENCY STABILITY

6.1 MEASUREMENT METHOD

(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.

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

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30°C.
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band, channel 190 for GSM 850 band measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5. 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℃.
- 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 $^{\circ}$ C to -30 $^{\circ}$ C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- .At all temperature levels hold the temperature to $\pm -0.5^{\circ}$ C during the measurement procedure.



6.2 PROVISIONS APPLICABLE

6.2.1 FOR HAND CARRIED BATTERY POWERED EQUIPMENT

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.3VDC 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.

6.2.2 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.



6.3 MEASUREMENT RESULT

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.

Frequency Error Against Voltage for GSM 850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-17	-0.020
3.7	16	0.019
4.2	24	0.029

Frequency Error Against Temperature for GSM 850 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	18	0.022
-20	-14	-0.017
-10	-38	-0.045
0	32	0.038
10	-17	-0.020
20	15	0.018
30	-23	-0.028
40	36	0.043
50	23	0.028

Frequency Error Against Voltage for GPRS850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	-14	-0.017
3.7	26	0.031
4.2	29	0.035





Frequency Error Against Temperature for GPRS850 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-16	-0.019
-20	32	0.038
-10	-15	-0.018
0	-20	-0.024
10	-21	-0.025
20	-15	-0.018
30	-20	-0.024
40	26	0.031
50	18	0.022

Frequency Error Against Voltage for EDGE 850 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	28	0.033
3.7	26	0.031
4.2	35	0.042

Frequency Error Against Temperature for EDGE 850 band		
temperature(°ℂ)	Frequency error(Hz)	Frequency error(ppm)
-30	25	0.030
-20	-16	-0.019
-10	16	0.019
0	29	0.035
10	-13	-0.016
20	-16	-0.019
30	36	0.043
40	31	0.037
50	18	0.022

Note: The EUT doesn't work below -30 ℃



Frequency Error Against Voltage for GSM1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	18	0.010
3.7	-16	-0.009
4.2	16	0.009

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Frequency Error Against Temperature for GSM1900 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-16	-0.009
-20	-25	-0.013
-10	18	0.010
0	23	0.012
10	-28	-0.015
20	25	0.013
30	32	0.017
40	-14	-0.007
50	-21	-0.011

Frequency Error Against Voltage for GPRS 1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	35	0.019
3.7	-12	-0.006
4.2	27	0.014

Frequency Error Against Temperature for GPRS 1900 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-16	-0.009
-20	28	0.015
-10	-16	-0.009
0	15	0.008
10	36	0.019
20	27	0.014
30	25	0.013
40	31	0.016
50	26	0.014





Frequency Error Against Voltage for EDGE 1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	26	0.014
3.7	28	0.015
4.2	-14	-0.007

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Frequency Error Against Temperature for EDGE 1900 band		
temperature(°ℂ)	Frequency error(Hz)	Frequency error(ppm)
-30	18	0.010
-20	24	0.013
-10	16	0.009
0	27	0.014
10	33	0.018
20	26	0.014
30	-25	-0.013
40	18	0.010
50	28	0.015

Note: The EUT doesn't work below -30 ℃

7. OCCUPIED BANDWIDTH

7.1 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.

7.2 PROVISIONS APPLICABLE

Limits applicated report test result only.

7.3 MEASUREMENT RESULT

Occupied Bandwidth (99%) for GSM 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	246.7722
Middle Channel	836.6	245.7895
High Channel	848.8	246.8912

Occupied Bandwidth (99%) for GPRS 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	246.2091
Middle Channel	836.6	246.0183
High Channel	848.8	242.0005

Occupied Bandwidth (99%) for EDGE 850 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	824.2	246.4416
Middle Channel	836.6	246.9324
High Channel	848.8	243.8145





Occupied Bandwidth (99%) for GSM1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	241.8728
Middle Channel	1880.0	247.4148
High Channel	1909.8	242.6203

Occupied Bandwidth (99%) for GPRS1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	246.5621
Middle Channel	1880.0	243.5733
High Channel	1909.8	250.0038

Occupied Bandwidth (99%) for EDGE 1900 band		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)
Low Channel	1850.2	245.0283
Middle Channel	1880.0	244.4033
High Channel	1909.8	250.3963

8. EMISSION BANDWIDTH

8.1 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.

8.2 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

8.3 MEASUREMENT RESULT

Emission Bandwidth (-26dBc) for GSM850 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	824.2	319.314	
Middle Channel	836.6	315.624	
High Channel	848.8	316.183	
Emission Bandwidth (-26dBc) for GPRS850 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	824.2	320.368	
Middle Channel	836.6	318.070	
High Channel	848.8	313.668	
Emission Bandwidth (-26dBc) for EDGE 850 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	824.2	324.218	
Middle Channel	836.6	319.305	
High Channel	848.8	317.812	





Emission Bandwidth (-26dBc) for GSM1900 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	1850.2	320.497	
Middle Channel	1880.0	317.584	
High Channel	1909.8	316.132	
Emission Bandwidth (-26dBc) for GPRS1900 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	1850.2	316.843	
Middle Channel	1880.0	319.715	
High Channel	1909.8	319.254	
Emission Bandwidth (-26dBc) for EDGE 1900 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	1850.2	317.252	
Middle Channel	1880.0	321.409	
High Channel	1909.8	320.956	



9. BAND EDGE

9.1 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.

9.2 PROVISIONS APPLICABLE

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

9.3 MEASUREMENT RESULT

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



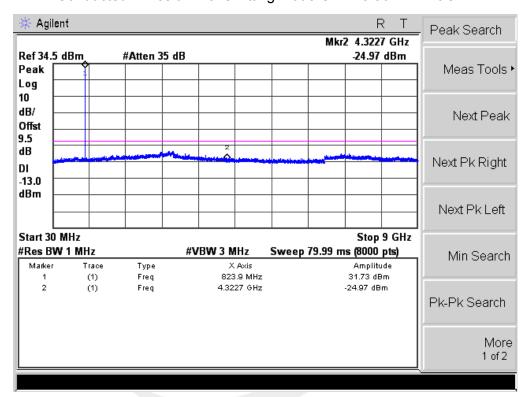


APPENDIX I

TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

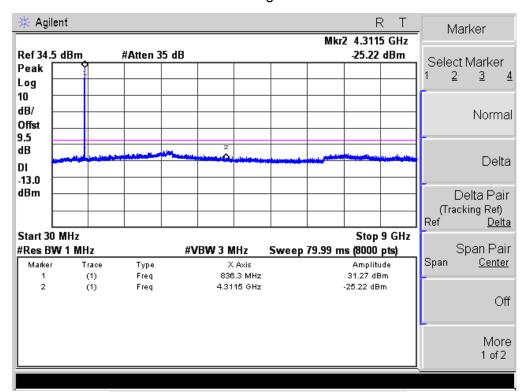
CONDUCTED EMISSION IN GSM 850 BAND

Conducted Emission Transmitting Mode CH 128 30MHz - 9GHz

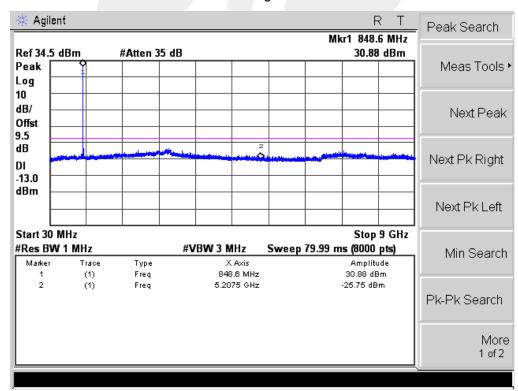




Conducted Emission Transmitting Mode CH 190 30MHz - 9GHz



Conducted Emission Transmitting Mode CH 251 30MHz - 9GHz

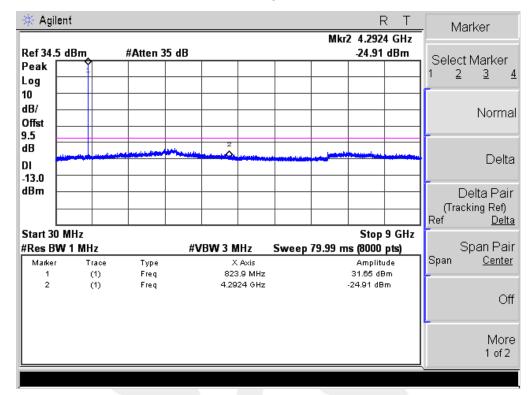




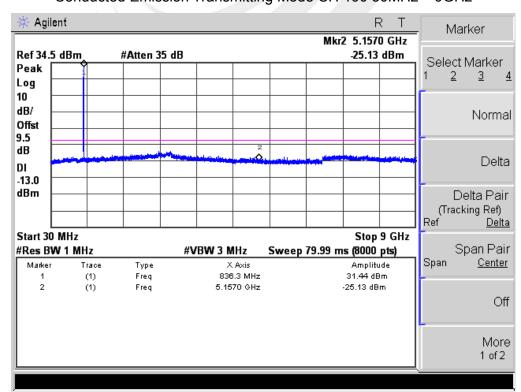


CONDUCTED EMISSION IN GPRS 850 BAND

Conducted Emission Transmitting Mode CH 128 30MHz – 9GHz

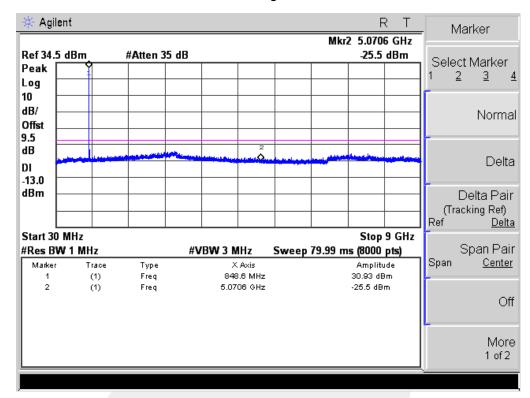


Conducted Emission Transmitting Mode CH 190 30MHz - 9GHz





Conducted Emission Transmitting Mode CH 251 30MHz - 9GHz

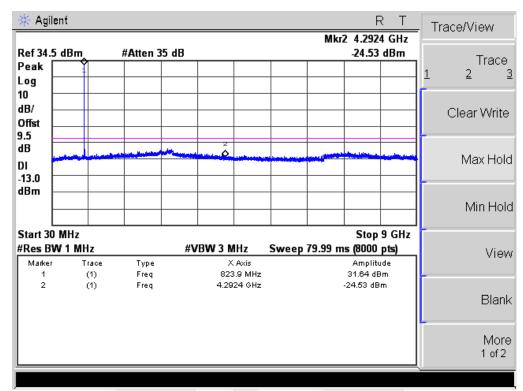




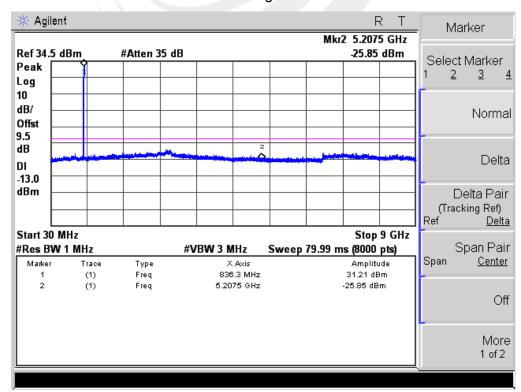


CONDUCTED EMISSION IN EDGE 850 BAND

Conducted Emission Transmitting Mode CH 128 30MHz – 9GHz

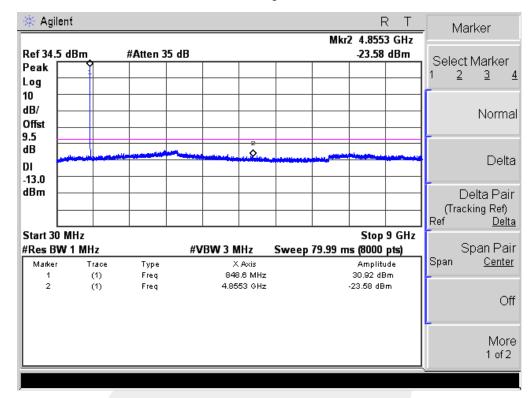


Conducted Emission Transmitting Mode CH 190 30MHz – 9GHz





Conducted Emission Transmitting Mode CH 251 30MHz - 9GHz

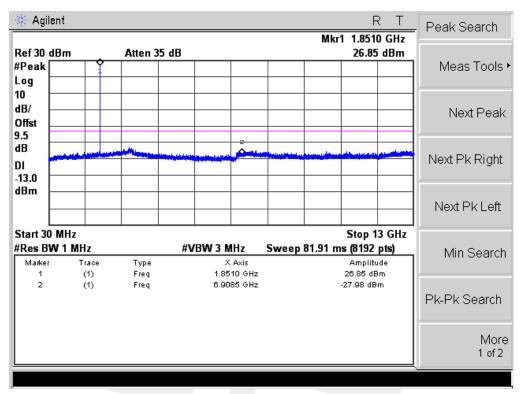


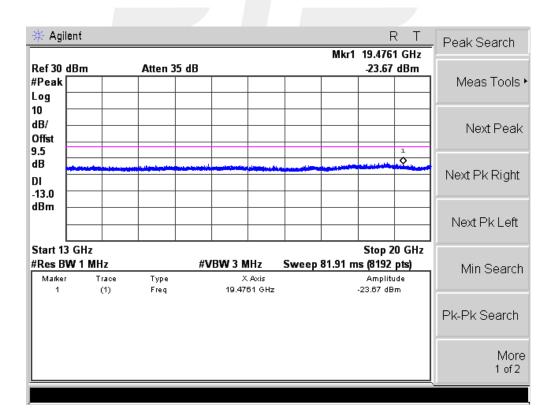




CONDUCTED EMISSION IN GSM1900 BAND

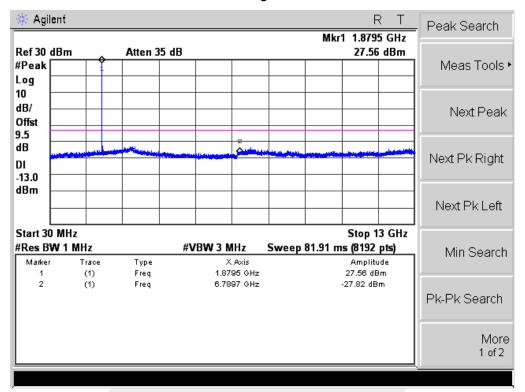
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz

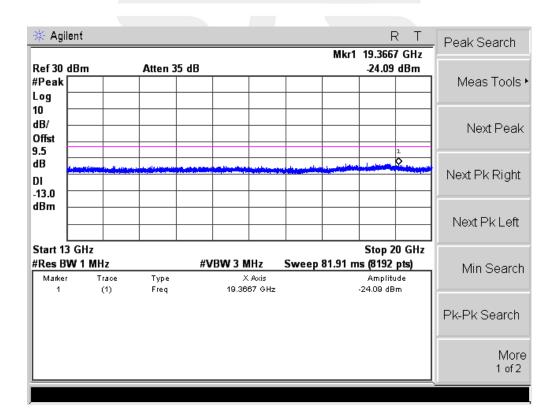






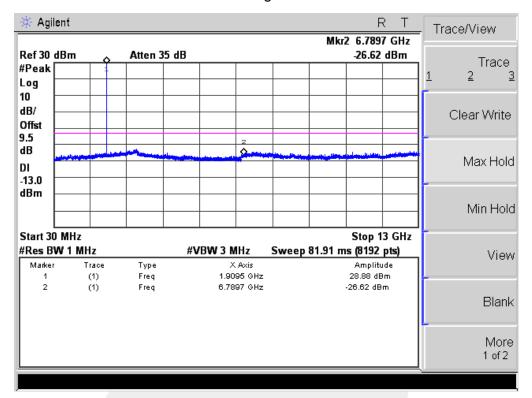
Conducted Emission Transmitting Mode CH 661 30MHz – 20GHz

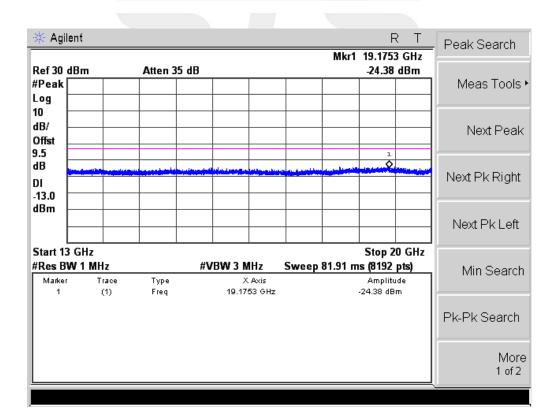






Conducted Emission Transmitting Mode CH 810 30MHz - 20GHz



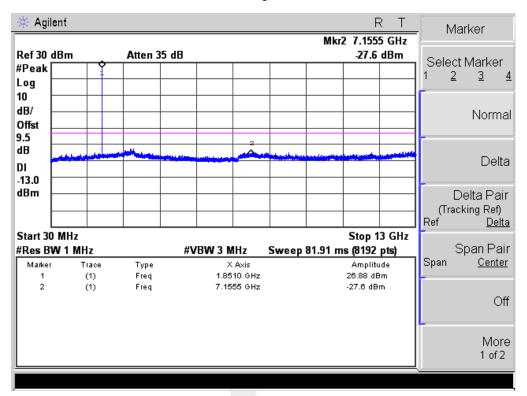


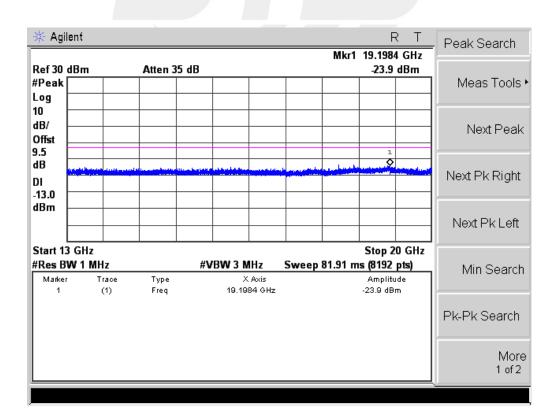




CONDUCTED EMISSION IN GPRS1900 BAND

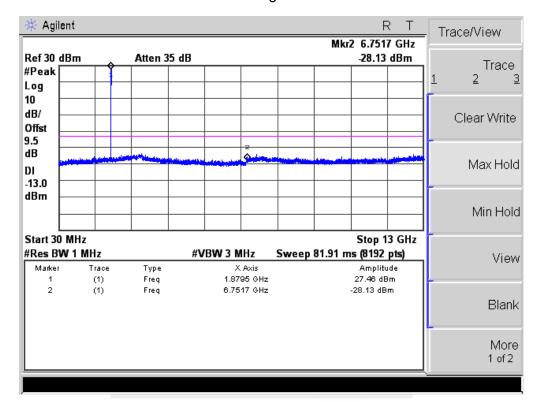
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz

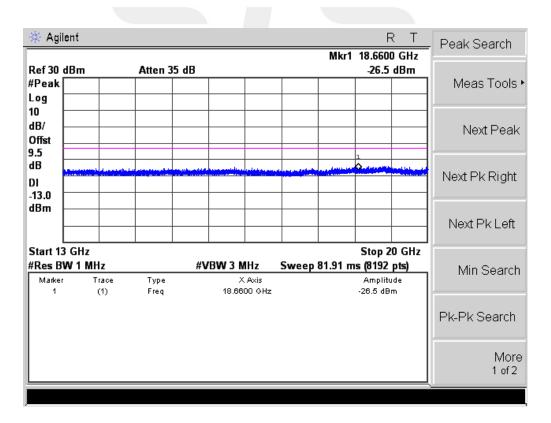






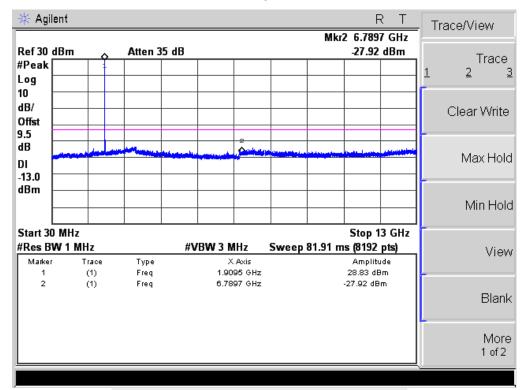
Conducted Emission Transmitting Mode CH 661 30MHz - 20GHz

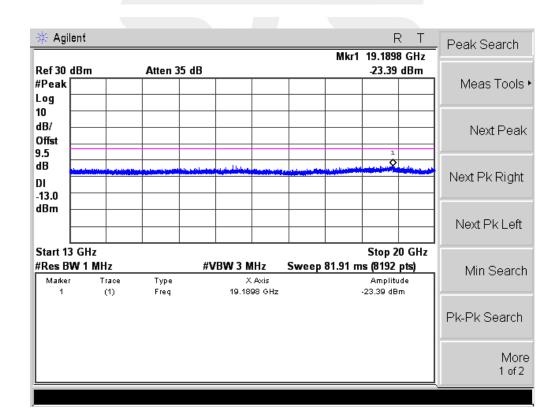






Conducted Emission Transmitting Mode CH 810 30MHz – 20GHz



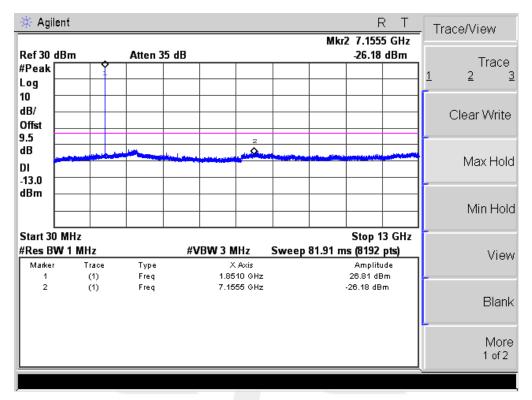


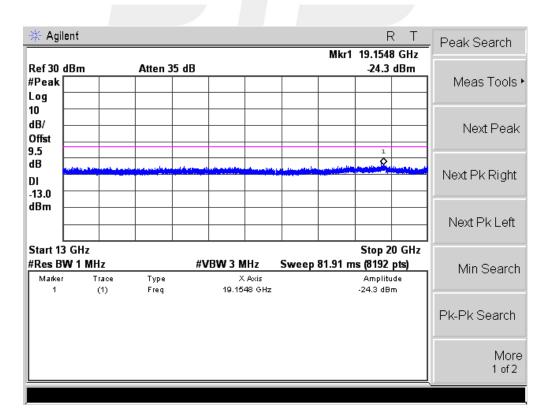




CONDUCTED EMISSION IN EDGE 1900 BAND

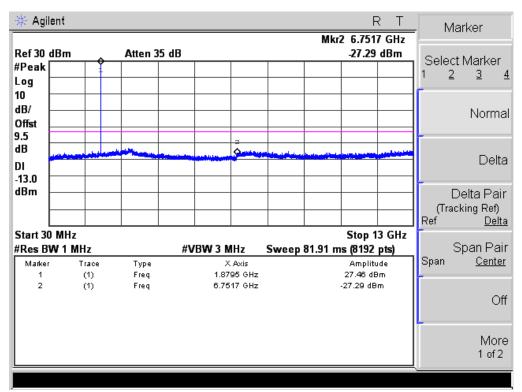
Conducted Emission Transmitting Mode CH 512 30MHz – 20GHz

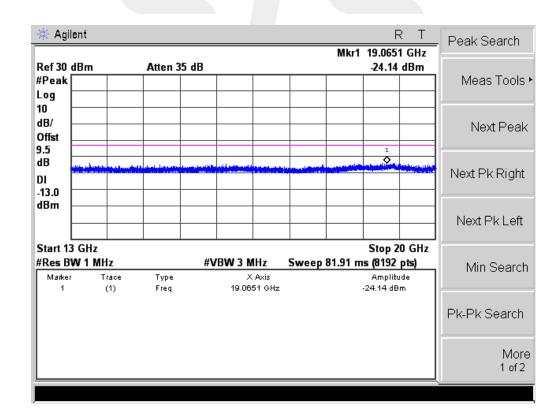






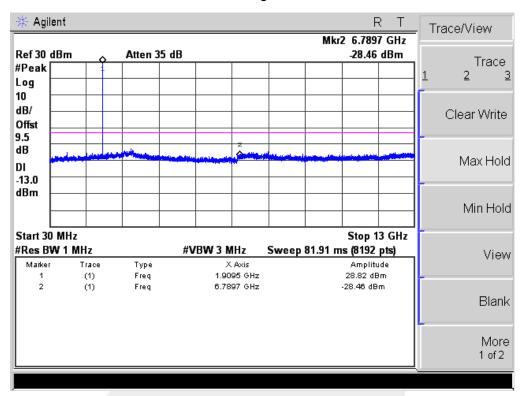
Conducted Emission Transmitting Mode CH 661 30MHz - 20GHz

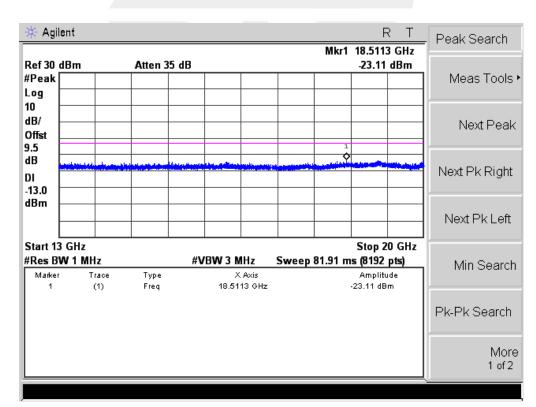






Conducted Emission Transmitting Mode CH 810 30MHz – 20GHz





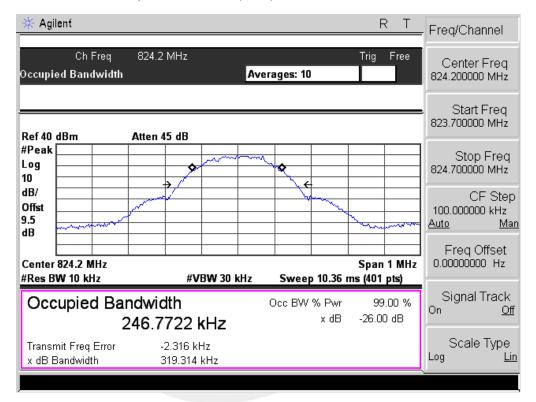




APPENDIX II

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

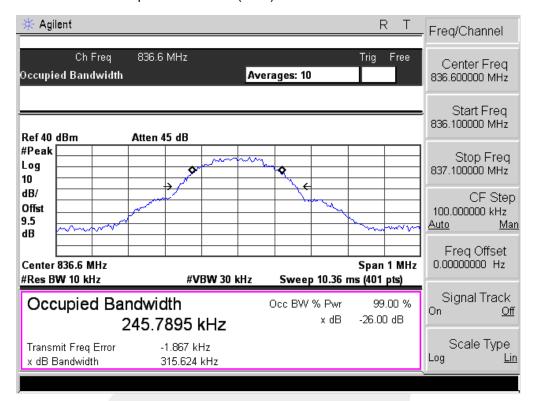
Occupied Bandwidth (99%) GSM 850 BAND CH 128



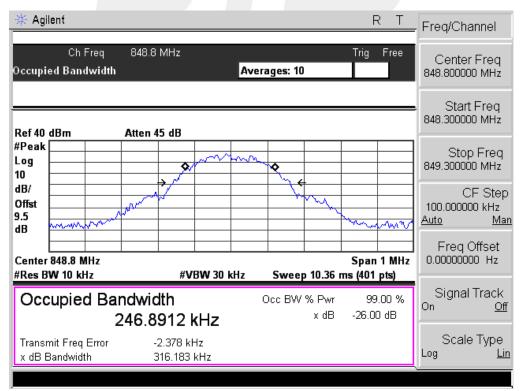




Occupied Bandwidth (99%) GSM 850 BAND CH 190

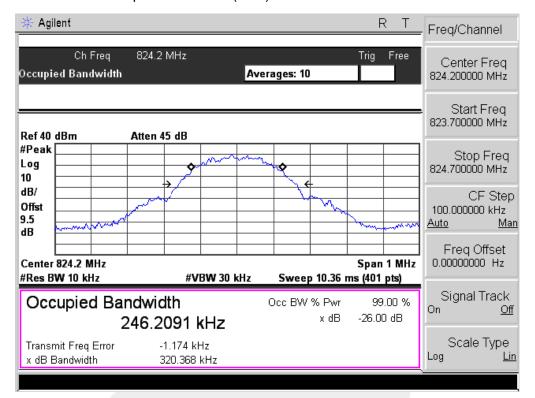


Occupied Bandwidth (99%) GSM 850 BAND CH 251

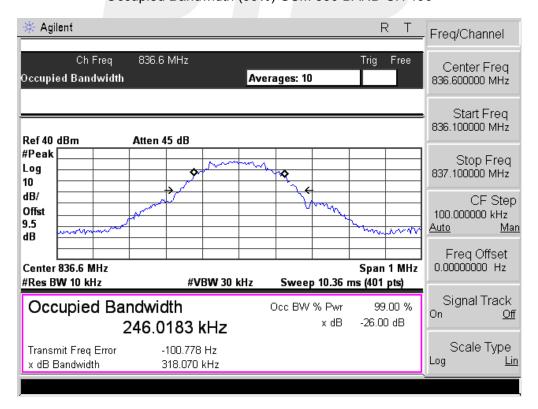




Occupied Bandwidth (99%) GPRS 850 BAND CH 128

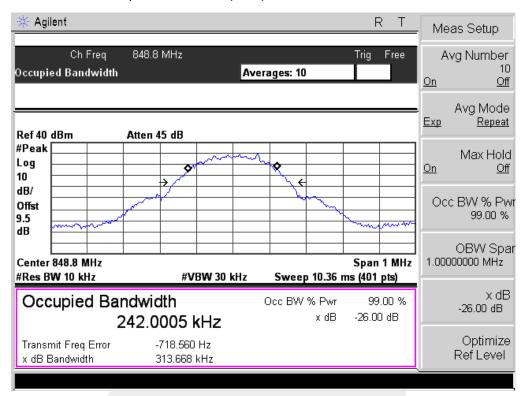


Occupied Bandwidth (99%) GSM 850 BAND CH 190





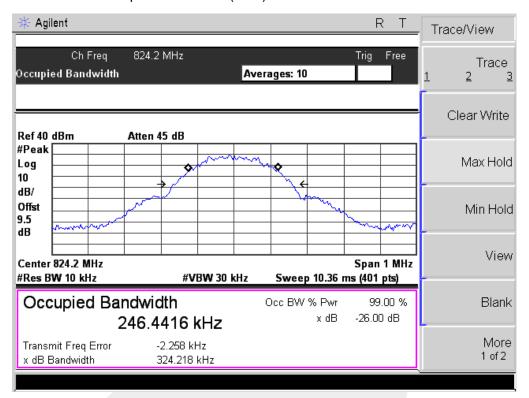
Occupied Bandwidth (99%) GRPS 850 BAND CH 251



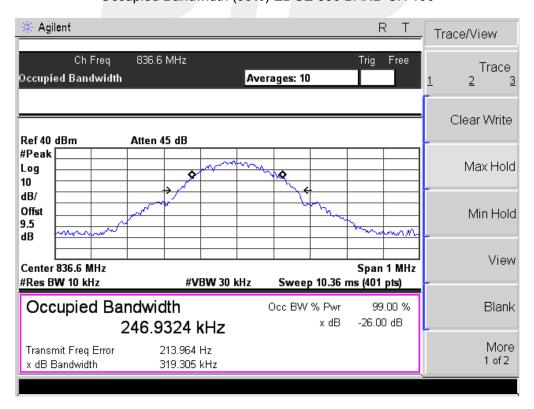




Occupied Bandwidth (99%) EDGE 850 BAND CH 128

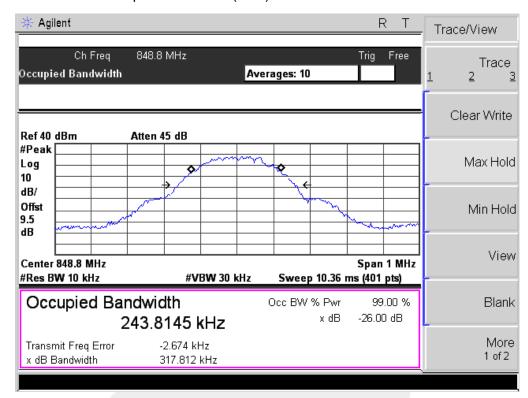


Occupied Bandwidth (99%) EDGE 850 BAND CH 190



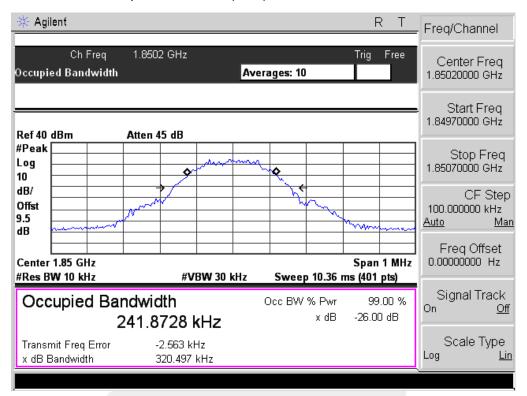


Occupied Bandwidth (99%) EDGE 850 BAND CH 251

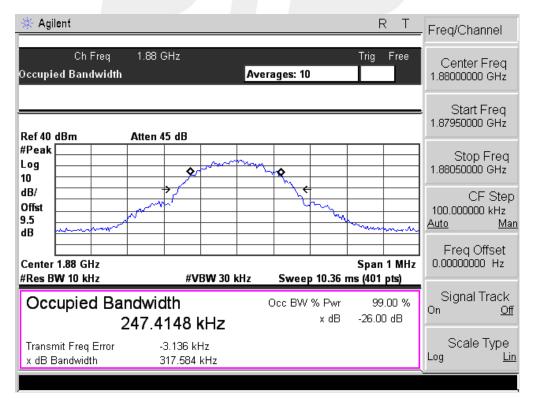




Occupied Bandwidth (99%) PCS 1900 BAND CH 512

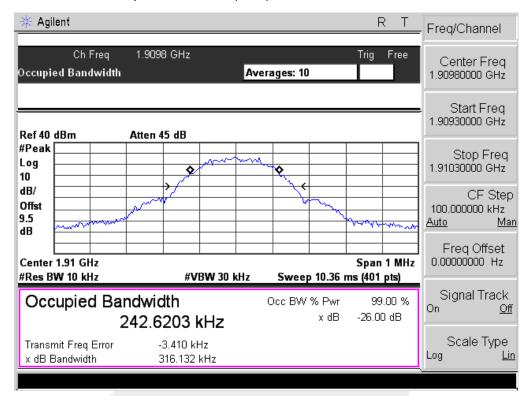


Occupied Bandwidth (99%) PCS 1900 BAND CH 661



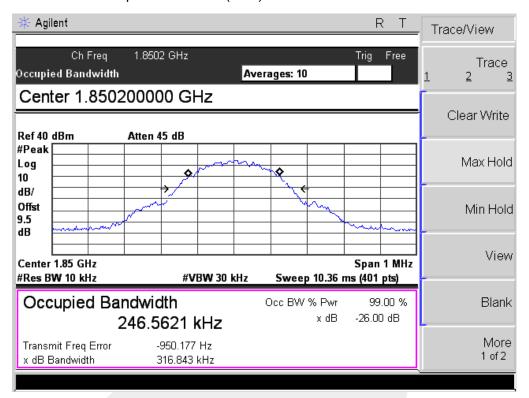


Occupied Bandwidth (99%) PCS 1900 BAND CH 810

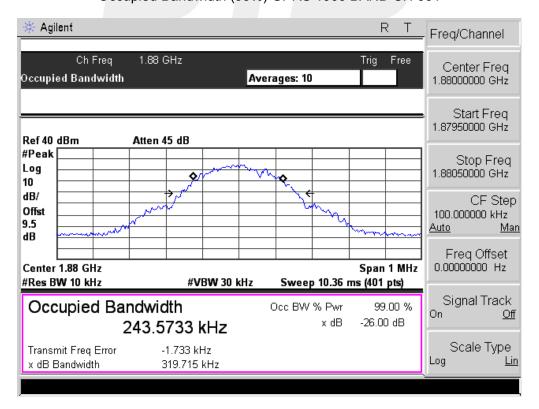




Occupied Bandwidth (99%) GPRS 1900 BAND CH 512

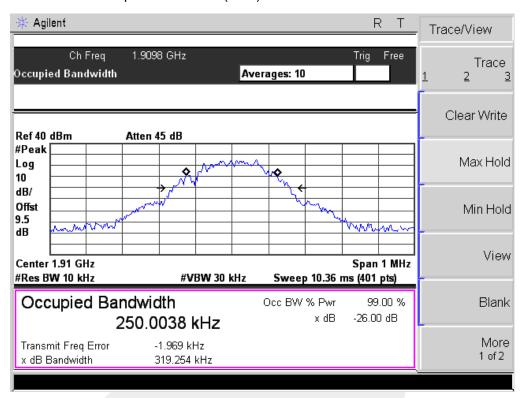


Occupied Bandwidth (99%) GPRS 1900 BAND CH 661



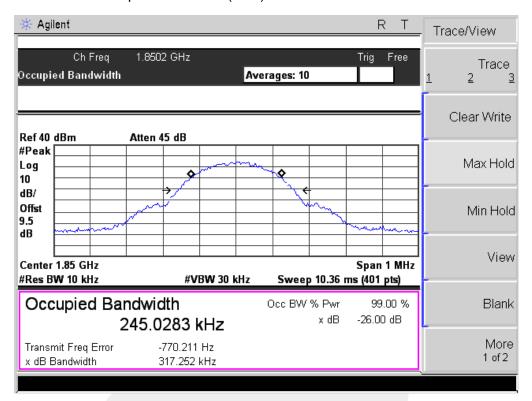


Occupied Bandwidth (99%) GPRS 1900 BAND CH 810

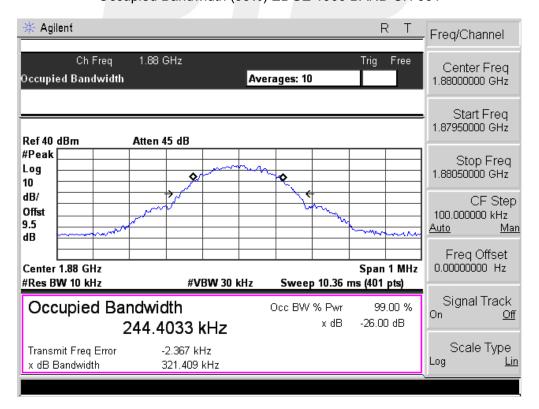




Occupied Bandwidth (99%) EDGE 1900 BAND CH 512

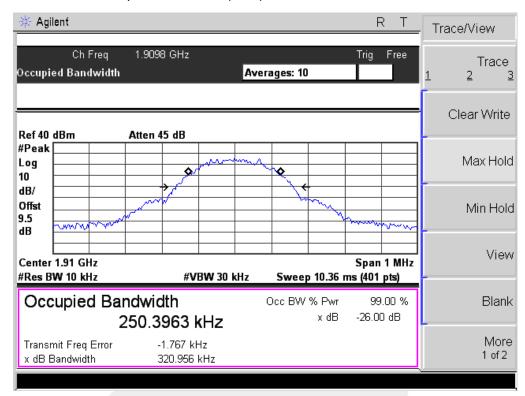


Occupied Bandwidth (99%) EDGE 1900 BAND CH 661





Occupied Bandwidth (99%) EDGE 1900 BAND CH 810

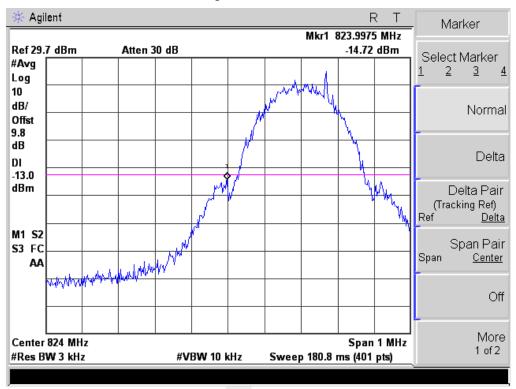




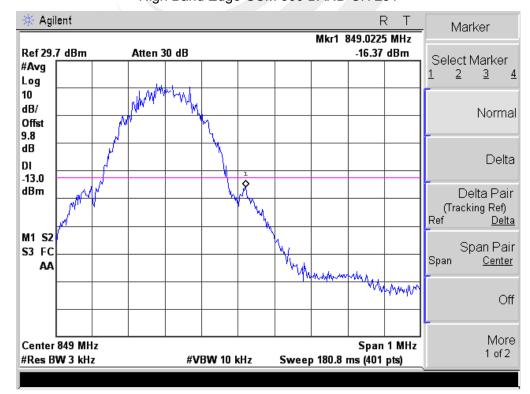


APPENDIX III TEST PLOTS FOR BAND EDGES

Low Band Edge GSM 850 BAND CH 128



Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB High Band Edge GSM 850 BAND CH 251

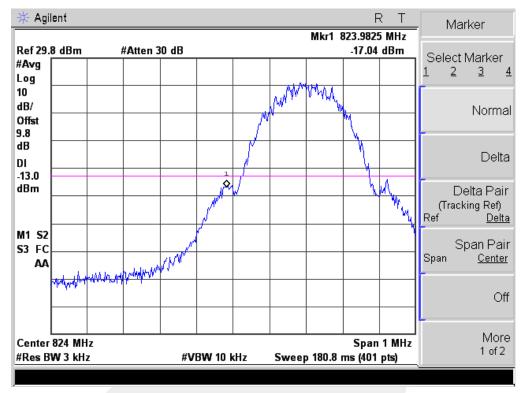


Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB



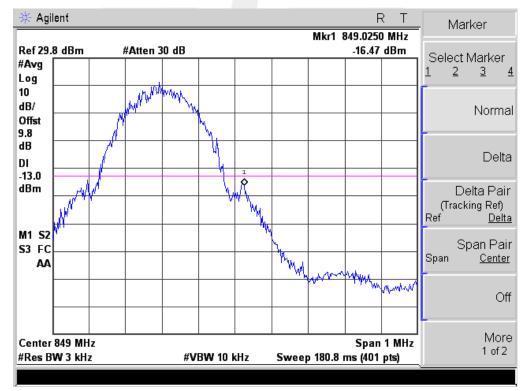
Low Band Edge GPRS 850 BAND CH 128

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Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB

High Band Edge GPRS 850 BAND CH 251

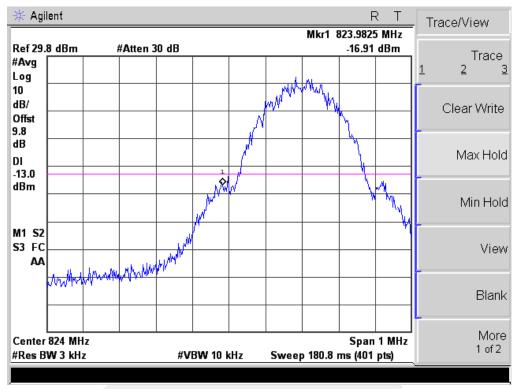


Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB



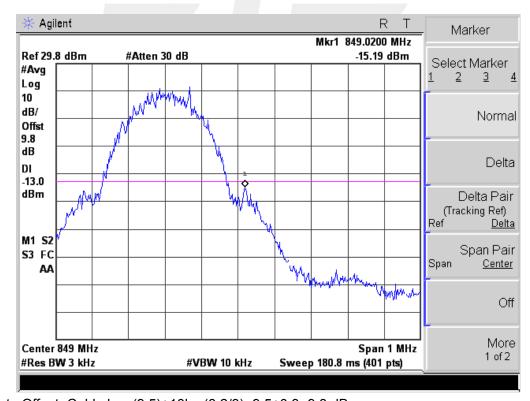
Low Band Edge EDGE 850 BAND CH 128

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Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB

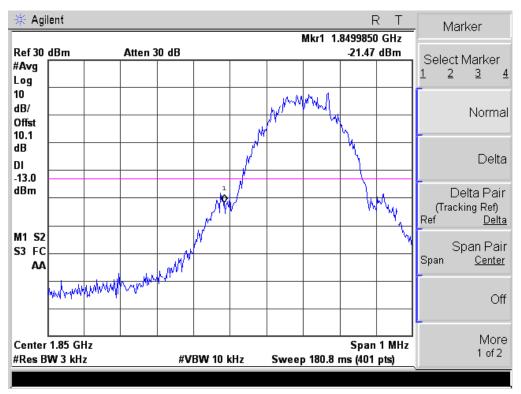
High Band Edge EDGE 850 BAND CH 251



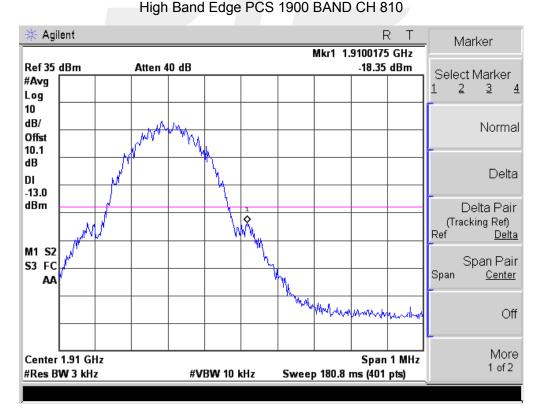
Note:Offset=Cable loss(9.5)+10log(3.2/3)=9.5+0.3=9.8 dB



Low Band Edge PCS 1900 BAND CH 512



Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

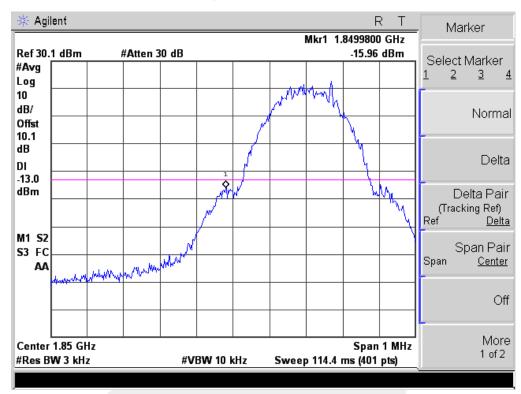


Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB



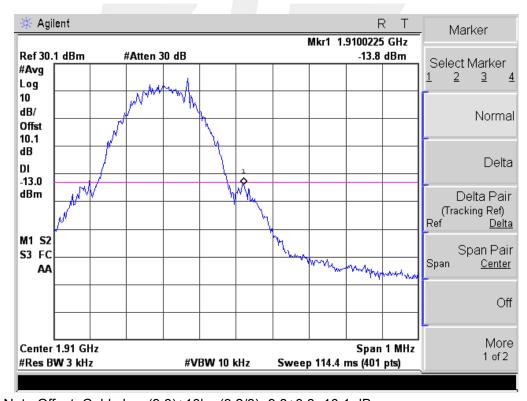
Low Band Edge GPRS 1900 BAND CH 512

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Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

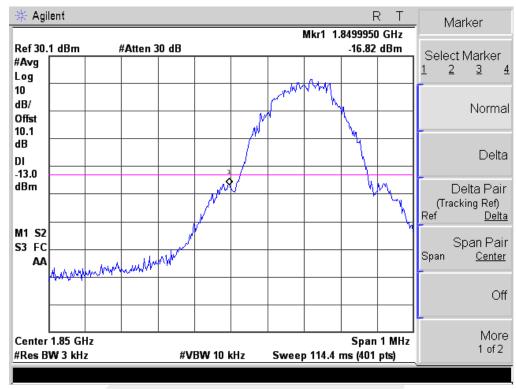
High Band Edge GPRS 1900 BAND CH 810



Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

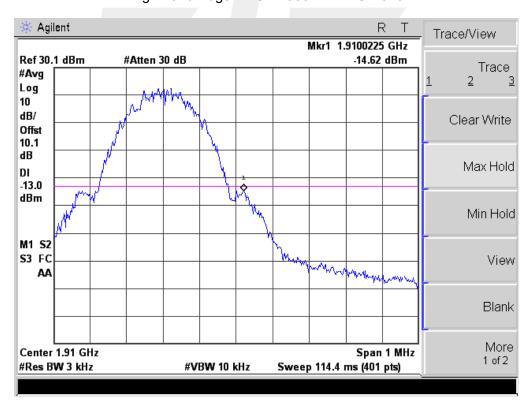


Low Band Edge EDGE 1900 BAND CH 512



Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

High Band Edge EDGE 1900 BAND CH 810



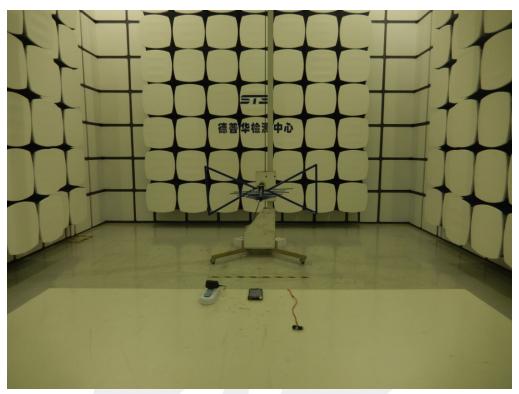
Note:Offset=Cable loss(9.8)+10log(3.2/3)=9.8+0.3=10.1 dB

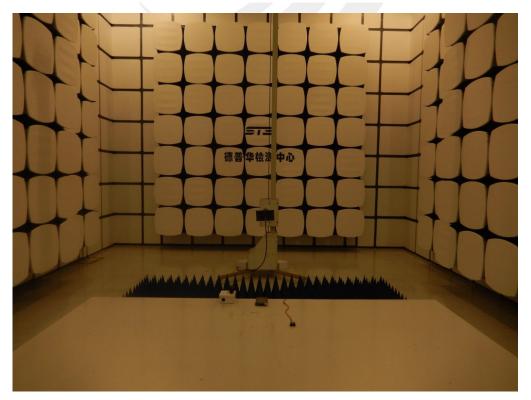




APPENDIX IV PHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





* * * * * END OF THE REPORT * * * *