

FCC RADIO TEST REPORT FCC ID: 2ACDBJEASUNGA9

Product: WCDMA 3G SMART PHONE

Trade Name: JEASUNG

Model Number: A9

Serial Model: N/A

Report No.: BZT140404F01

Prepared for

Shen Zhen Xin Jiao Du Technology Development.,LTD

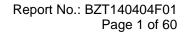
28-2, 2F, Wu Gang Henggang Town Village Road, Longgang, Shenzhen, China

Prepared by

BZT Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599





TEST RESULT CERTIFICATION

Applicant's name:	Shen Zhen Xin Jiao Du Technology Development.,LTD			
Address:	28-2, 2F, Wu Gang Henggang Town Village Road, Longgang, Shenzhen, China			
Manufacture's Name	Shen Zhen Xin Jiao Du Technology Development.,LTD			
Address:	28-2, 2F, Wu Gang Henggang Town Village Road, Longgang, Shenzhen, China			
Product name:	WCDMA 3G SMART PHONE			
Band name:	JEASUNG			
Model and/or type reference:	A9			
Standards:	FCC Part 22H and 24E			
Test procedure:	ANSI C63.4-2003			
	een tested by BZT, and the test results show that the equipment with the FCC requirements. And it is applicable only to the tested			
	except in full, without the written approval of BZT, this document rsonal only, and shall be noted in the revision of the document.			
Date of Test				
Date (s) of performance of tests	April 11, 2014 ~April 25, 2014			
Date of Issue				
Test Result	Pass			
Testing Engineer	: Apple Huang (Apple Huang)			
	(Apple Huarig)			
Technical Manager	: low thank			
	(Tom Zhang)			
Authorized Signatory	Forey Young			
	(Bovey Yang)			

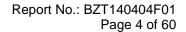


TABLE OF CONTENTS

1.1 PRODUCT DESCRIPTION	4
1.2 RELATED SUBMITTAL(S) / GRANT (S)	6
1.3 TEST METHODOLOGY	6
1.4 TEST FACILITY	6
1.5 MEASUREMENT INSTRUMENTS	6
1.6 SPECIAL ACCESSORIES	6
1.7 EQUIPMENT MODIFICATIONS	6
2. SYSTEM TEST CONFIGURATION	7
2.1 EUT CONFIGURATION	7
2.2 EUT EXERCISE	7
2.3 GENERAL TECHNICAL REQUIREMENTS	7
2.4 CONFIGURATION OF EUT SYSTEM	8
3. SUMMARY OF TEST RESULTS	g
4. DESCRIPTION OF TEST MODES	9
5. OUTPUT POWER	10
5.1 CONDUCTED OUTPUT POWER	10
5.2 RADIATED OUTPUT POWER	16
6. SPURIOUS EMISSION	20
6.1 CONDUCTED SPURIOUS EMISSION	20
6.2 RADIATED SPURIOUS EMISSION	22
7. FREQUENCY STABILITY	27
7.1 MEASUREMENT METHOD	27
7.2 PROVISIONS APPLICABLE	
7.3 MEASUREMENT RESULT	28
8. OCCUPIED BANDWIDTH	32



8.1 MEASUREMENT METHOD	32
8.2 PROVISIONS APPLICABLE	32
8.3 MEASUREMENT RESULT	32
9. EMISSION BANDWIDTH	34
9.1 MEASUREMENT METHOD	34
9.2 PROVISIONS APPLICABLE	34
9.3 MEASUREMENT RESULT	34
10. BAND EDGE	36
10.1 MEASUREMENT METHOD	36
10.2 PROVISIONS APPLICABLE	36
10.3 MEASUREMENT RESULT	36
APPENDIX I	37
TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION	37
APPENDIX II	50
TEST PLOTS FOR OCCUPIED BANDWIDTH (99%)	50
EMISSION BANDWIDTH (-26DBC)	50
APPENDIX III	56
TEST PLOTS FOR BAND EDGES	56
APPENDIX IV	60
PHOTOGRAPHS OF TEST SETUR	60



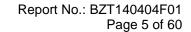


1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	WCDMA 3G SMART PHONE		
Hardware version:			
Software version:			
FCC ID:	2ACDBJEASUNGA9		
Frequency Bands:	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK Output Power: 2.544dBm		
Wifi	Frequency:2412 – 2462 MHz Modulation: CCK/OFDM/DBPSK/DAPSK Output Power: 8.37 dBm		
NFC	Frequency Band: 13.553MHz~13.567MHz Modulation Type: ASK		
Antenna:	Integrated Antenna		
Antenna gain:	1.0dBi		
Power Supply:	DC 3.7V by battery or DC 5.0V supplied by adapter		
Battery parameter:	DC 3.7V/3000mAh		
Adapter Input:	AC100-240V, 50-60Hz		
Adapter Output:	DC 5.0V, 1A		
GPRS/EDGE Class	Multi-Class12		
Extreme Vol. Limits:	DC3.4 V to 4.2 V (Nominal DC3.7 V)		
Extreme Temp. Tolerance	-10℃ to +50℃		
	4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT ly with higher or lower voltage.		





Mode Max. Conducted Power (dBm) GSM850 32.01 **GPRS 850** 31.56 **EDGE 850** 27.78 GSM1900 29.10 **GPRS 1900** 28.90 EDGE1900 26.12 UMTS BAND V 23.01



Page 6 of 60

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ACDBJEASUNGA9** filing to comply with the FCC Part 22H&24E.

1.3 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.

1.4 TEST FACILITY

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

BZT Testing Technology Co.,Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC Registration No.: 701733

1.5 MEASUREMENT INSTRUMENTS

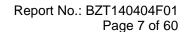
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	NEXT CAL. DATE
SPECTRUM ANALYZER	AGILENT	E4440A	US44300399	2014.6.26
TEST RECEIVER	R&S	ESCI	A0304218	2014.6.26
COMMUNICATION TESTER	AGILENT	8960	3104A03367	2014.7.21
COMMUNICATION TESTER	R&S	CMU200	A0304247	2014.7.21
TEST RECEIVER	R&S	FCKL1528	A0304230	2014.6.26
LISN	SCHWARZBECK	NSLK8127	A0304233	2014.6.26
CLIMATE CHAMBER	ALBATROSS			2014.6.26
Loop Antenna	Daze	ZN30900N	SEL0097	2014.6.26
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	2015.4.26
Horn Antenna	EM	EM-AH-10180	N/A	2015.4.26

1.6 SPECIAL ACCESSORIES

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

1.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





2. SYSTEM TEST CONFIGURATION

2.1 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.

2.2 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.

2.3 GENERAL TECHNICAL REQUIREMENTS

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



Page 8 of 60

2.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System

EUT

Table 2-1 Equipment Used in EUT System

		11-11-1-1-1	,	
Item	Equipment	Model No.	ID or Specification	Note
1	WCDMA 3G SMART PHONE	A9	FCC ID: 2ACDBJEASUNGA9	EUT

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



3. SUMMARY OF TEST RESULTS

Item Number	Item	n Description	FCC Rules	Result	
		Conducted			
1	Output	Output Power	22.913(a) / 24.232 (b)	Pass	
l	Power	Radiated	22.913(a) / 24.232 (b)	F d 5 5	
		Output Power			
		Conducted			
2	Spurious	Spurious Emission	2.1051 / 22.917 / 24.238	Pass	
2	Emission	Radiated	2.1051/22.917/24.230	Pass	
		Spurious Emission			
3	Mains Cor	ducted Emission	15.107 / 15.207	Pass	
4	Frequency Stability		2.1055 /24.235	Pass	
5	Occupied Bandwidth		2.1049 (h)(i)	Pass	
6	Emission Bandwidth		22.917(b) / 24.238 (b)	Pass	
7	Band Edge	9	22.917(b) / 24.238 (b)	Pass	

4. 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, HSDPA band V, HSUPA band V 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.



5. OUTPUT POWER

5.1 CONDUCTED OUTPUT POWER

5.1.1 MEASUREMENT METHOD

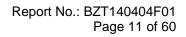
The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GPRS/EDGE850, GPRS/EDGE1900, HSDPA band V) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

5.1.2 MEASUREMENT RESULT

Conducted Output Power Limits for GSM 850 MHZ			
Mode Nominal Peak Power Tolerance(dB)			
GSM850	31.56 dBm	+/- 1	

Conducted Output Power Limits for PCS 1900 MHZ			
Mode Nominal Peak Power Tolerance(dB)			
GSM1900	28.62 dBm	+/- 1	

Conducted Output Power Limits for WCDMA band V			
Mode Nominal Peak Power Tolerance(dB)			
WCDMA band V	22.51 dBm	+/-0.5	



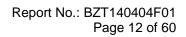


GSM 850:

Mode	Frequency	Peak Power
Mode	(MHz)	
	824.2	31.71
GSM850	836.6	31.94
	848.8	32.06
GPRS850	824.2	30.88
	836.6	31.26
(1 Slot)	848.8	31.56
CDDC050	824.2	29.07
GPRS850	836.6	29.34
(2 Slot)	848.8	29.44
CDDC050	824.2	27.32
GPRS850 (3 Slot)	836.6	27.40
	848.8	26.94
GPRS850 (4 Slot)	824.2	25.25
	836.6	25.28
	848.8	25.21

PCS 1900:

Mode	Frequency (MHz)	Peak Power
	1850.2	29.07
GSM1900	1880	29.10
	1909.8	29.08
CDB\$1000	1850.2	28.24
GPRS1900	1880	28.68
(1 Slot)	1909.8	28.90
CDDC4000	1850.2	25.58
GPRS1900	1880	25.38
(2 Slot)	1909.8	25.40
CDDC4000	1850.2	24.26
GPRS1900	1880	24.20
(3 Slot)	1909.8	24.25
CDDC4000	1850.2	23.23
GPRS1900	1880	23.22
(4 Slot)	1909.8	23.17



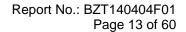


EDGE 850:

Mode	Frequency	Peak Power
Wode	(MHz)	
EGPRS850	824.2	27.02
	836.6	27.52
(1 Slot)	848.8	27.78
ECDD 2050	824.2	24.63
EGPRS850	836.6	24.88
(2 Slot)	848.8	24.66
	824.2	23.05
EGPRS850	836.6	23.10
(3 Slot)	848.8	23.13
EODDO050	824.2	22.05
EGPRS850	836.6	22.13
(4 Slot)	848.8	22.04

EDGE 1900:

Mode	Frequency (MHz)	Peak Power
EGPRS1900	1850.2	26.12
	1880	26.08
(1 Slot)	1909.8	25.94
ECDD \$4000	1850.2	24.08
EGPRS1900	1880	24.08
(2 Slot)	1909.8	24.10
FCDDC1000	1850.2	23.33
EGPRS1900 (3 Slot)	1880	23.25
(3 3101)	1909.8	23.26
ECDD \$1000	1850.2	21.16
EGPRS1900	1880	21.12
(4 Slot)	1909.8	21.17





UMTS BAND V

Mode	Frequency	Peak Power
	(MHz) 826.4	23.01
WCDMA 850		
RMC	836.6	22.75
	846.6	22.71
WCDMA 850	826.4	22.52
AMR	836.6	22.45
	846.6	22.39
HSDPA	826.4	22.49
Subtest 1	836.6	22.41
	846.6	22.33
HSDPA	826.4	22.41
Subtest 2	836.6	22.39
Gubiou 2	846.6	22.45
HSDPA	826.4	22.65
Subtest 3	836.6	22.57
Sublest 5	846.6	22.45
LICDDA	826.4	22.57
HSDPA	836.6	22.53
Subtest 4	846.6	22.41
LICLIDA	826.4	22.09
HSUPA	836.6	22.10
Subtest 1	846.6	22.01
LIGUIDA	826.4	22.55
HSUPA -	836.6	22.63
Subtest 2	846.6	22.59
	826.4	22.42
HSUPA -	836.6	22.30
Subtest 3	846.6	22.28
	826.4	22.28
HSUPA	835.6	22.21
Subtest 4	846.6	22.12
	826.4	22.05
HSUPA	836.6	22.18
Subtest 5	846.6	22.12



Page 14 of 60

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<2 F	NAA V(CNA 1 O)
HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)

Note: CM=1 for β $_{\rm c}/\beta$ $_{\rm d}$ =12/15, β $_{\rm hs}/\beta$ $_{\rm c}$ =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.



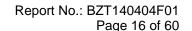
Page 15 of 60

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.





5.2 RADIATED OUTPUT POWER

5.2.1 MEASUREMENT METHOD

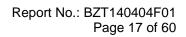
The measurements procedures specified in TIA-603C-2004 were applied.

- 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.
- 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..
- 9. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.2 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."

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



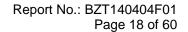


5.2.3 MEASUREMENT RESULT

Radiated Power (ERP) for GSM 850 MHZ					
		Result		Result	
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion	
		(dBm)	Of Max. ERP		
	824.2	29.78	Horizontal	Pass	
	824.2	26.45	Vertical	Pass	
0014050	836.6	29.67	Horizontal	Pass	
GSM850	836.6	26.80	Vertical	Pass	
	848.8	30.06	Horizontal	Pass	
	848.8	27.15	Vertical	Pass	

Radiated Power (ERP) for GPRS 850 MHZ				
		Result		
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion
		(dBm)	Of Max. ERP	
	824.2	29.35	Horizontal	Pass
	824.2	26.45	Vertical	Pass
GPRS850	836.6	29.42	Horizontal	Pass
GFK3630 _	836.6	26.56	Vertical	Pass
	848.8	29.76	Horizontal	Pass
	848.8	26.87	Vertical	Pass

Radiated Power (ERP) for EDGE 850 MHZ				
		Result		
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion
		(dBm)	Of Max. ERP	
	824.2	27.07	Horizontal	Pass
	824.2	24.63	Vertical	Pass
EDGE850	836.6	27.12	Horizontal	Pass
EDGE650	836.6	24.61	Vertical	Pass
	848.8	27.48	Horizontal	Pass
	848.8	24.79	Vertical	Pass





Radiated Power (E.I.R.P) for PCS 1900 MHZ Result Mode **Frequency** Conclusion Max. Peak **Polarization** Of Max. E.I.R.P. E.I.R.P.(dBm) Pass 24.89 1850.2 Horizontal **Pass** 1850.2 26.46 Vertical 1880.0 24.73 Horizontal Pass PCS1900 1880.0 26.59 Vertical **Pass** 24.60 Horizontal **Pass** 1909.8 26.41 Vertical Pass 1909.8

	Radiated Power (E.I.R.P) for GPRS 1900 MHZ				
		Res	ult		
Mode	Frequency	Max. Peak	Polarization	Conclusion	
		E.I.R.P.(dBm)	Of Max. E.I.R.P.		
	1850.2	24.76	Horizontal	Pass	
	1850.2	26.08	Vertical	Pass	
GPRS	1880.0	25.05	Horizontal	Pass	
1900	1880.0	26.47	Vertical	Pass	
	1909.8	24.69	Horizontal	Pass	
	1909.8	26.14	Vertical	Pass	

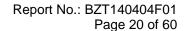
Radiated Power (E.I.R.P) for EDGE 1900 MHZ					
		Result			
Mode	Frequency	Max. Peak	Polarization	Conclusion	
		E.I.R.P.(dBm)	Of Max. E.I.R.P.		
	1850.2	22.28	Horizontal	Pass	
	1850.2	24.79	Vertical	Pass	
EDGE	1880.0	22.49	Horizontal	Pass	
1900	1880.0	25.25	Vertical	Pass	
	1909.8	21.99	Horizontal	Pass	
	1909.8	25.14	Vertical	Pass	



Page 19 of 60

	Radiated Power (E.I.R.P) for UMTS band ∨				
		Result			
Mode	Frequency	Max. Peak	Polarization	Conclusion	
		E.I.R.P.(dBm)	Of Max. E.I.R.P.		
	1852.4	19.73	Horizontal	Pass	
	1880	20.81	Vertical	Pass	
RMC	1907.6	19.82	Horizontal	Pass	
12.2kbps	1852.4	20.79	Vertical	Pass	
	1880	19.72	Horizontal	Pass	
	1907.6	20.62	Vertical	Pass	

NOTE 1: in the part, result the worst case GPRS 1slot for GSM 850 and PCS1900, and RMC 12.2kbps for band V.





6. SPURIOUS EMISSION

6.1 CONDUCTED SPURIOUS EMISSION

6.1.1 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 19.1 GHz, data taken from 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 PCS/ GPRS/EDGE 1900 MHz			
Channel	Frequency (MHz)		
512	1850.2		
661	1880.0		
810	1909.8		

Typical Channels for testing of UMTS band V			
Channel	Frequency (MHz)		
4132	826.4		
4183	836.6		
4233	846.6		



Page 21 of 60

6.1.2 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.

6.1.3 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.





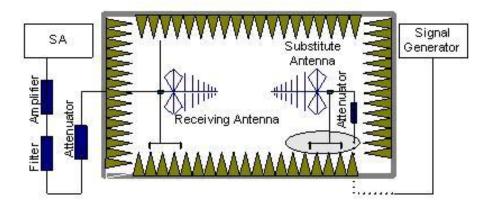
6.2 RADIATED SPURIOUS EMISSION

6.2.1 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(GPRS850, GPRS1900, HSDPA band V,) 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:

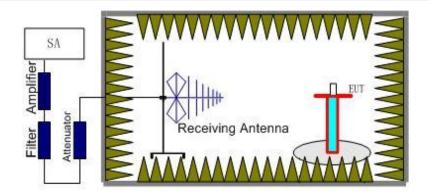
a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) +CL (dB) +SA (dB) +Gain (dBi) -107 (dBuV to dBm) The SA is calibrated using following setup.



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), UMTS band V (4132 (826.4MHz), 4183(835MHz) and 4233 (846.6MHz)). 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}

6.2.2 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:



Report No.: BZT140404F01 Page 24 of 60

6.2.3 MEASUREMENT RESULT

GSM 850:

The Worst Test Results Channel 128/824.2 MHz					
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit(dBm)	Polarity
1648.379	-33.10	-4.65	-37.75	-13.00	Horizontal
2471.322	-35.88	-2.10	-37.98	-13.00	Horizontal
4118.454	-42.19	11.80	-30.39	-13.00	Horizontal
1648.379	-34.23	-4.65	-38.88	-13.00	Vertical
2471.322	-35.70	-2.10	-37.80	-13.00	Vertical
4118.454	-40.48	11.80	-28.68	-13.00	Vertical
	The Worst T	est Results (Channel 190/8	36.6 MHz	
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit(dBm)	Polarity
1673.317	-31.01	-4.97	-35.98	-13.00	Horizontal
2506.234	-39.49	-2.10	-41.59	-13.00	Horizontal
3339.401	-35.84	3.46	-32.28	-13.00	Horizontal
1673.317	-37.44	-4.97	-42.41	-13.00	Vertical
2506.234	-36.51	-2.10	-38.61	-13.00	Vertical
3339.401	-36.03	3.46	-32.57	-13.00	Vertical
	The Worst T	est Results (Channel 251/8	48.8 MHz	
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit(dBm)	Polarity
1698.254	-32.15	-4.94	-37.09	-13.00	Horizontal
2541.147	-33.68	-2.02	-35.57	-13.00	Horizontal
3384.835	-35.87	3.49	-31.68	-13.00	Horizontal
1698.254	-30.44	-4.94	-35.38	-13.00	Vertical
2541.147	-37.55	-2.02	-39.57	-13.00	Vertical
3384.835	-35.17	3.49	-30.98	-13.00	Vertical



Report No.: BZT140404F01 Page 25 of 60

PCS 1900:

	1900.						
	The Worst Test Results for Channel 512/1850.2MHz						
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Lim	it (dBm)		Polarity
1793.017	-32.19	-3.54	-35.75		-13.00		Horizontal
3720.698	-43.82	13.01	-30.81		-13.00		Horizontal
5543.641	-39.81	14.7	-25.11		-13.00		Horizontal
1793.017	-31.43	-3.54	-34.97		-13.00		Vertical
3720.698	-42.71	13.01	-29.71		-13.00		Vertical
5543.641	-40.27	14.7	-25.57		-13.00		Vertical
	The Worst 1	est Resul	ts for Channe	l 661	/1880.0MH	z	
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dB	m)	Polarity
1822.943	-32.52	-3.48	-36.00		-13.00		Horizontal
3763.092	-47.76	13.8	-33.96		-13.00		Horizontal
5628.429	-45.07	15.4	-29.67		-13.00		Horizontal
1822.943	-27.47	-3.48	-30.85		-13.00		Vertical
3763.092	-47.29	13.8	-33.49		-13.00		Vertical
5628.429	-39.69	15.4	-24.29		-13.00		Vertical
	The Worst 1	est Resul	ts for Channe	l 810	/1909.8MH	z	
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dB	m)	Polarity
1967.581	-29.85	-3.26	26.9		-13.00		Horizontal
3847.880	-47.38	12.4	24.4		-13.00		Horizontal
5713.217	-37.95	15.75	15.0		-13.00		Horizontal
1967.581	-32.56	-3.26	29.6		-13.00		Vertical
3847.880	-45.30	12.4	2.3		-13.00		Vertical
5713.217	-40.07	15.75	17.1		-13.00		Vertical



Page 26 of 60

UMTS band V

Channel 4132/824.6MHz					
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Polarity
1653.367	-32.13	-5.01	-37.14	-13.00	Horizontal
2481.297	-28.66	-2.08	-30.74	-13.00	Horizontal
1653.367	-32.13	-5.01	-37.14	-13.00	Vertical
2481.297	-30.38	-2.08	-33.36	-13.00	Vertical
		Channel 4183	3/836.6MHz		
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Polarity
1675.329	-28.05	-4.97	-33.02	-13.00	Horizontal
2510.781	-32.29	-2.10	-34.39	-13.00	Horizontal
1675.329	-27.82	-4.97	-32.79	-13.00	Vertical
2510.781	-36.96	-2.10	-39.06	-13.00	Vertical
		Channel 4233	3/846.6MHz		
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Polarity
1688.279	-31.59	-4.95	-36.54	-13.00	Horizontal
2536.160	-28.76	-2.02	-30.78	-13.00	Horizontal
1688.279	-31.59	-4.95	-36.54	-13.00	Vertical
2536.160	-32.95	-2.02	-34.97	-13.00	Vertical

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

:



Page 27 of 60

7. FREQUENCY STABILITY

7.1 MEASUREMENT METHOD

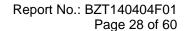
In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- Measure the carrier frequency at room temperature.
- 2 .Subject the EUT to overnight soak at -10℃.
- 3 .With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band , channel 190 for GSM 850 band and channel 4183 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 $+50^{\circ}$ 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 -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.

7.2 PROVISIONS APPLICABLE

7.2.1 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 3.4VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.





7.2.2 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.

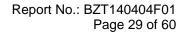
7.3 MEASUREMENT RESULT

Frequency Error Against Voltage for GSM 850 band			
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)	
3.4	25.68	0.031	
3.7	32.91	0.039	
4.2	19.04	0.023	

Frequency Error Against Temperature for GSMS850 band			
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)	
-10	27.58	0.033	
0	-21.67	0.026	
10	18.54	0.022	
20	-12.06	0.014	
30	-18.47	0.022	
40	9.67	0.012	
50	25.56	0.031	

Frequency Error Against Voltage for GPRS850 band			
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)	
3.4	14.410	0.017	
3.7	21.570	0.026	
4.2	-24.370	0.029	

Frequenc	Frequency Error Against Temperature for GPRS850 band			
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)		
-10	-14.75	0.018		
0	8.78	0.010		
10	-1.49	0.002		
20	17.14	0.020		
30	-23.61	0.028		
40	32.03	0.038		
50	32	0.038		





 Frequency Error Against Voltage for EGPRS850 band

 Voltage(V)
 Frequency error(Hz)
 Frequency error(ppm)

 3.4
 31.46
 0.038

 3.7
 28.57
 0.034

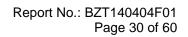
 4.2
 32.96
 0.039

Frequenc	Frequency Error Against Temperature for EGPRS850 band			
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)		
-10	35.57	0.043		
0	23.67	0.028		
10	-25.05	0.030		
20	29.42	0.035		
30	-26.29	0.031		
40	28.03	0.034		
50	36.68	0.044		

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

Frequency Error Against Voltage for GSM1900 band			
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)	
3.4	22.99	0.012	
3.7	-19.86	0.011	
4.2	-22.32	0.012	

Frequency Error Against Temperature for GSM1900 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	29.22	0.016
0	19.31	0.010
10	-17.92	0.010
20	17.36	0.009
30	5.05	0.003
40	3.02	0.002
50	-13.01	0.007





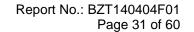
Frequency Error Against Voltage for GPRS1900 band		
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.4	26.56	0.014
3.7	16.67	0.009
4.2	29.57	0.016

Frequency Error Against Temperature for GPRS1900 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	27.67	0.015
0	12.77	0.007
10	29.05	0.015
20	31.8	0.017
30	25.52	0.014
40	38.39	0.020
50	37.3	0.020

Frequency Error Against Voltage for EDGE1900 band			
Voltage(V) Frequency error(Hz) Frequency error(ppm)			
3.4	38.19	0.020	
3.7	28.37	0.015	
4.2	41.02	0.022	

Frequency Error Against Temperature for EDGE1900 band		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	35.260	0.019
0	-26.780	0.014
10	19.540	0.010
20	-16.670	0.009
30	26.790	0.014
40	19.930	0.011
50	51.000	0.027

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





 Frequency Error Against Voltage for UMTS band V

 Voltage(V)
 Frequency error(Hz)
 Frequency error(ppm)

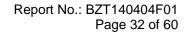
 3.4
 23.12
 0.028

 3.7
 11.33
 0.014

 4.2
 -17.55
 0.021

Frequency Error Against Temperature for UMTS band V		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	23.62	0.028
0	7.23	0.009
10	-24.78	-0.030
20	-1.26	-0.002
30	-18.68	-0.022
40	-21.61	-0.026
50	14.58	0.017

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





8. OCCUPIED 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

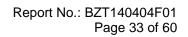
The occupied bandwidth (99%) shall not exceed 300 KHz.

8.3 MEASUREMENT RESULT

Occupied Bandwidth (99%) for GSM 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	824.2	244.39	
Middle Channel	836.6	247.47	
High Channel	848.8	244.40	

Occupied Bandwidth (99%) for GPRS 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	824.2	243.27	
Middle Channel	836.6	245.63	
High Channel	848.8	243.45	

Occupied Bandwidth (99%) for EGPRS 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	824.2	242.80	
Middle Channel	836.6	243.60	
High Channel	848.8	242.97	



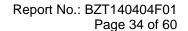


Occupied Bandwidth (99%) for GSM1900 band			
Mode Frequency(MHz) Occupied Bandwidth (99%)(kHz)			
Low Channel	1850.2	251.81	
Middle Channel	1880.0	246.76	
High Channel	1909.8	244.69	

Occupied Bandwidth (99%) for GPRS1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	1850.2	248.46	
Middle Channel	1880.0	245.03	
High Channel	1909.8	243.61	

Occupied Bandwidth (99%) for EDGE1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	1850.2	246.74	
Middle Channel	1880.0	244.28	
High Channel	1909.8	242.06	

Occupied Bandwidth (99%) for UMTS band V		
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)
Low Channel	826.4	4.18
Middle Channel	836.6	4.17
High Channel	846.6	4.17





9. EMISSION BANDWIDTH

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

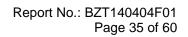
The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

9.3 MEASUREMENT RESULT

Emission Bandwidth (-26dBc) for GSM850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	317.62
Middle Channel	836.6	317.47
High Channel	848.8	317.17

Emission Bandwidth (-26dBc) for GPRS850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	317.19
Middle Channel	836.6	316.82
High Channel	848.8	316.32

Emission Bandwidth (-26dBc) for EDGE850 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	316.34
Middle Channel	836.6	316.26
High Channel	848.8	315.84





Emission Bandwidth (-26dBc) for GSM1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	318.19
Middle Channel	1880.0	316.82
High Channel	1909.8	319.32

Emission Bandwidth (-26dBc) for GPRS1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	317.84
Middle Channel	1880.0	315.30
High Channel	1909.8	318.45

Emission Bandwidth (-26dBc) for EDGE1900 band		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	315.01
Middle Channel	1880.0	313.83
High Channel	1909.8	315.27

Emission Bandwidth (-26dBc) for UMTS band V		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	826.4	4.73
Middle Channel	836.6	4.73
High Channel	846.6	4.73



Report No.: BZT140404F01

Page 36 of 60

10. BAND EDGE

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

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

10.3 MEASUREMENT RESULT

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



Report No.: BZT140404F01

Page 37 of 60

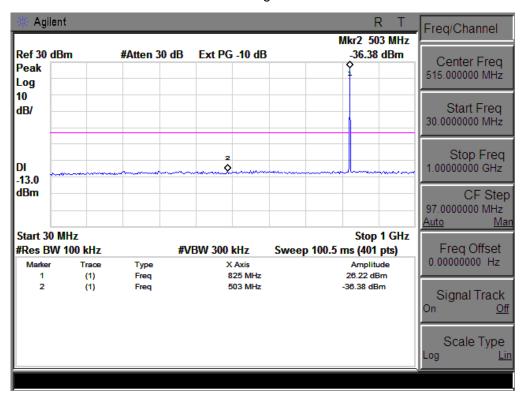
APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION



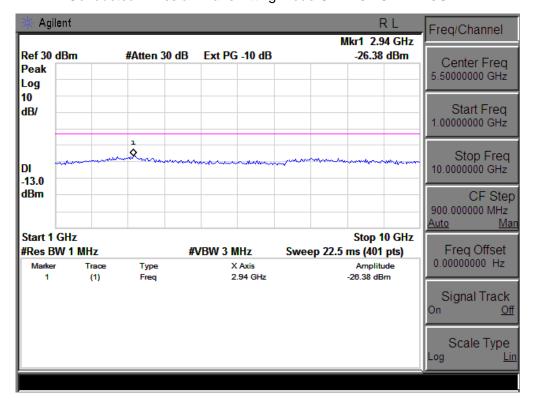


CONDUCTED EMISSION IN GSM 850 BAND

Conducted Emission Transmitting Mode CH 128 30MHz – 1GHz



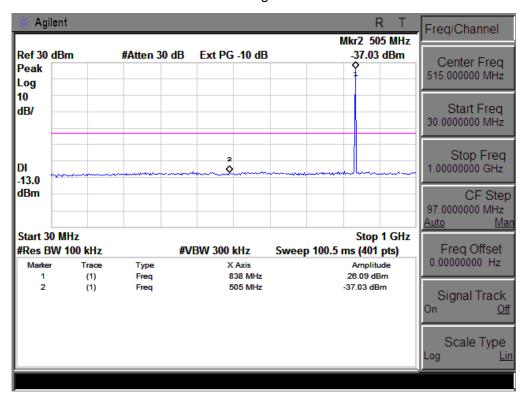
Conducted Emission Transmitting Mode CH 128 1GHz - 10GHz



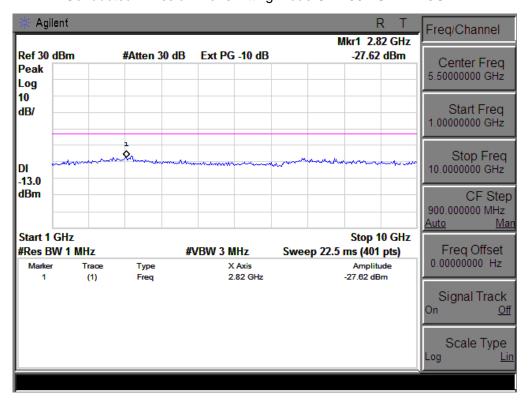
Page 39 of 60

✓ BZT

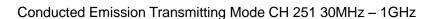
Conducted Emission Transmitting Mode CH 190 30MHz - 1GHz



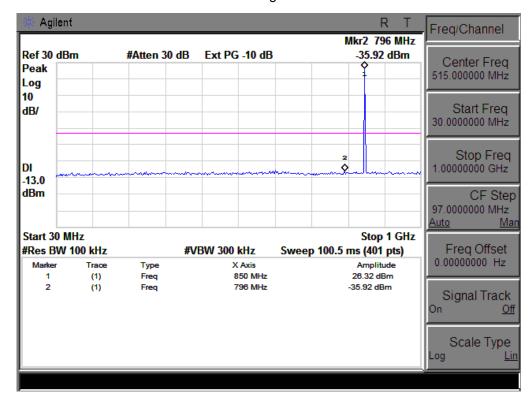
Conducted Emission Transmitting Mode CH 190 1GHz - 10GHz



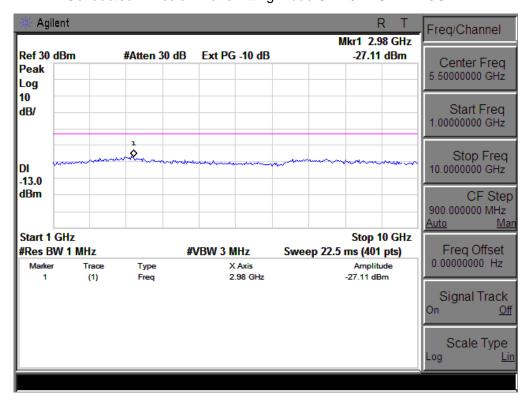
Page 40 of 60

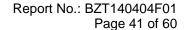


✓ BZT



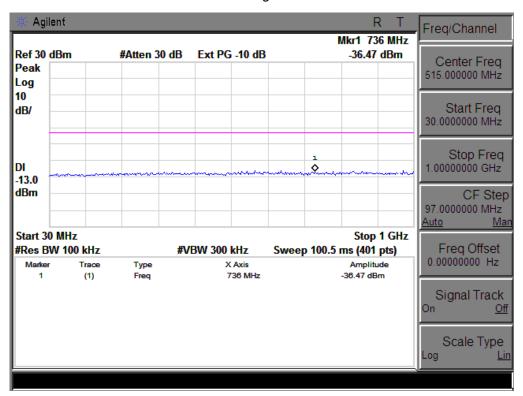
Conducted Emission Transmitting Mode CH 251 1GHz - 10GHz



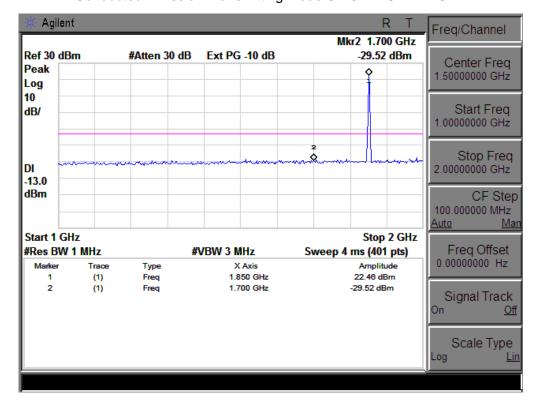


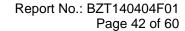


CONDUCTED EMISSION IN GSM1900 BAND
Conducted Emission Transmitting Mode CH 512 30MHz – 1GHz



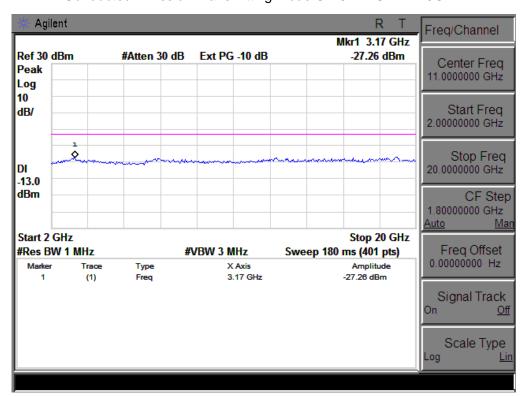
Conducted Emission Transmitting Mode CH 512 1GHz - 2GHz







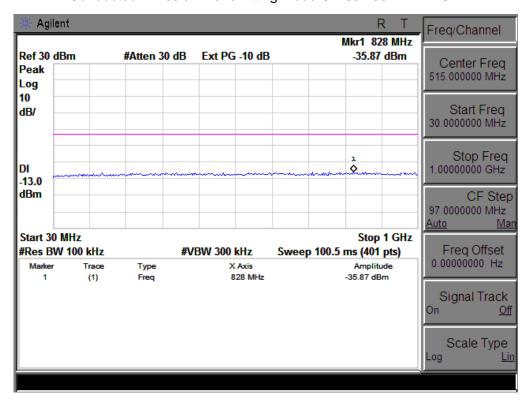
Conducted Emission Transmitting Mode CH 512 2GHz - 20GHz



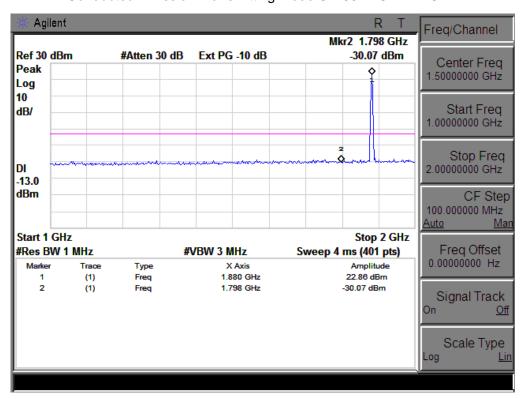
Page 43 of 60

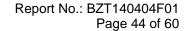
Conducted Emission Transmitting Mode CH 661 30MHz – 1GHz

✓ BZT



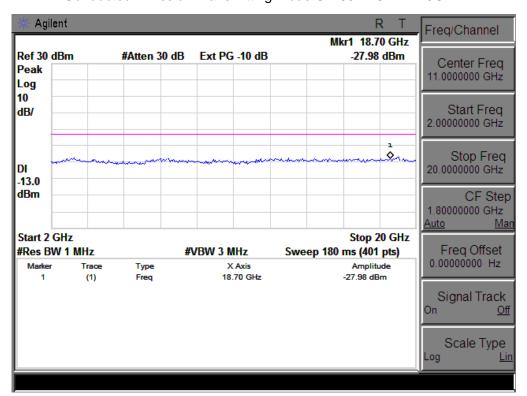
Conducted Emission Transmitting Mode CH 661 1GHz - 2GHz







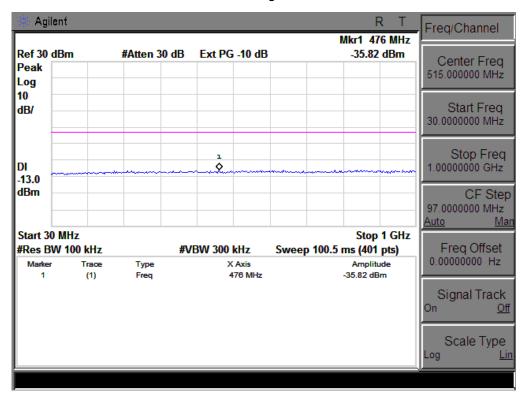
Conducted Emission Transmitting Mode CH 661 2GHz - 20GHz



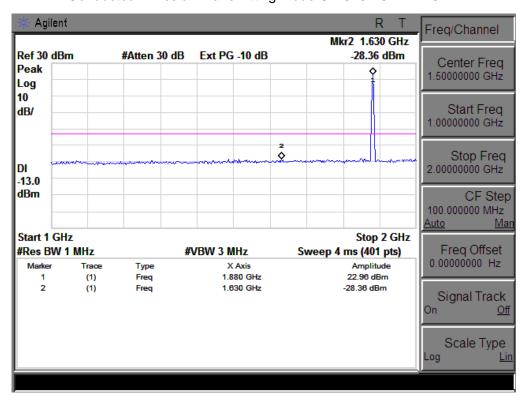
Page 45 of 60

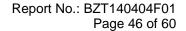
✓ BZT

Conducted Emission Transmitting Mode CH 810 30MHz - 1GHz



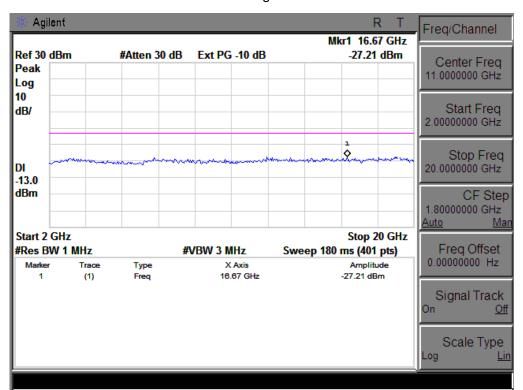
Conducted Emission Transmitting Mode CH 810 1GHz - 2GHz

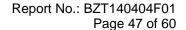






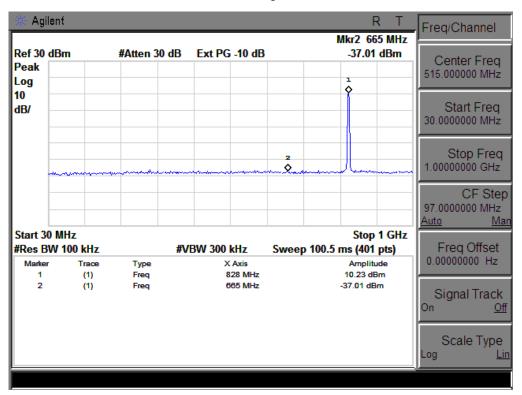
Conducted Emission Transmitting Mode CH 810 2GHz - 20GHz



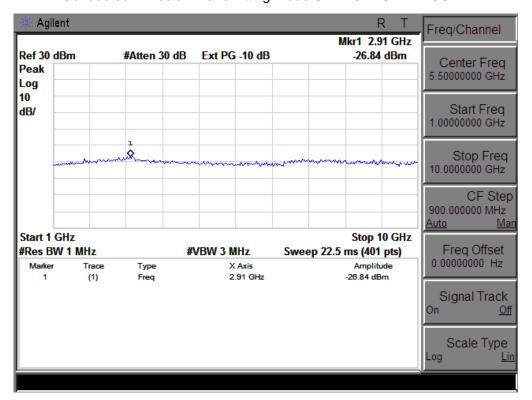




CONDUCTED EMISSION IN UMTS band V
Conducted Emission Transmitting Mode 4132 30MHz – 1GHz



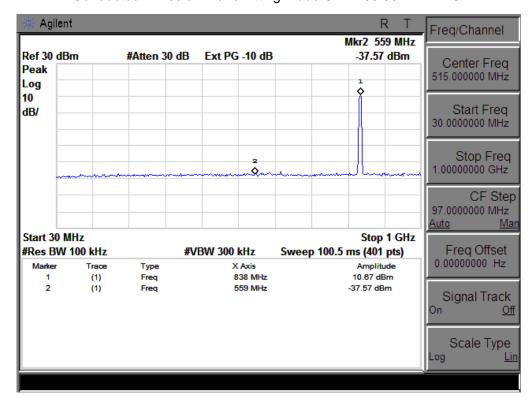
Conducted Emission Transmitting Mode CH 4132 1GHz - 10GHz



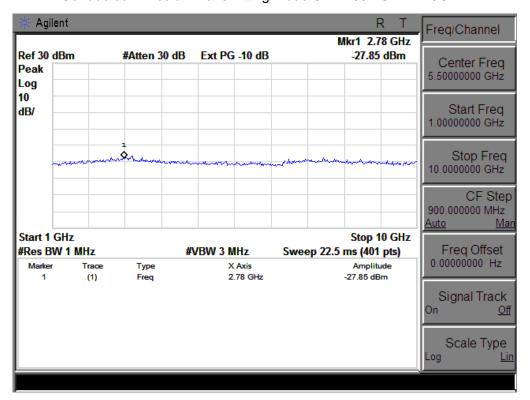
Page 48 of 60

Conducted Emission Transmitting Mode CH 4183 30MHz - 1GHz

✓ BZT



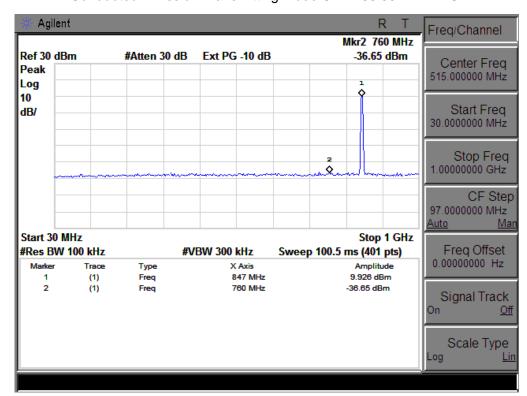
Conducted Emission Transmitting Mode CH 4183 1GHz - 10GHz



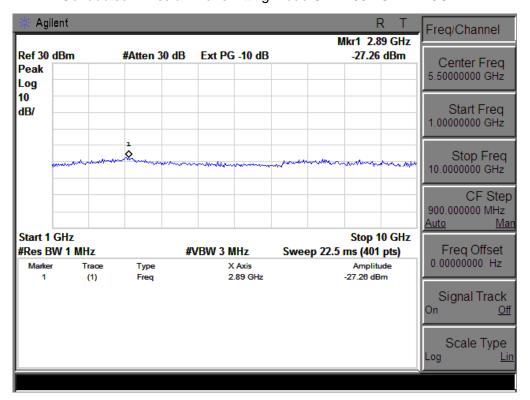
Page 49 of 60

Conducted Emission Transmitting Mode CH 4233 30MHz - 1GHz

✓ BZT



Conducted Emission Transmitting Mode CH 4233 1GHz - 10GHz





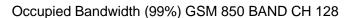
Report No.: BZT140404F01

Page 50 of 60

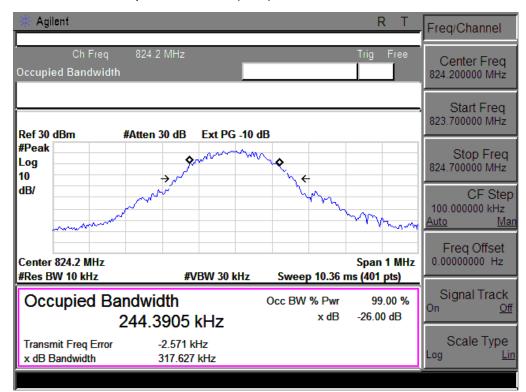
APPENDIX II TEST PLOTS FOR OCCUPIED BANDWIDTH (99%) EMISSION BANDWIDTH (-26dBC)



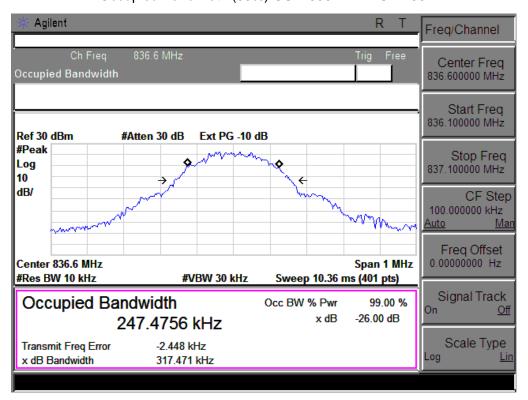
Page 51 of 60



BZT

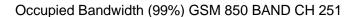


Occupied Bandwidth (99%) GSM 850 BAND CH 190

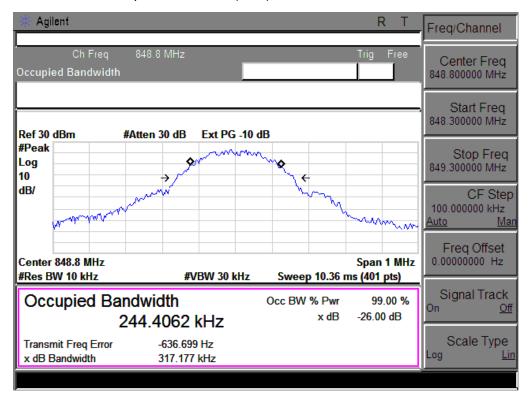




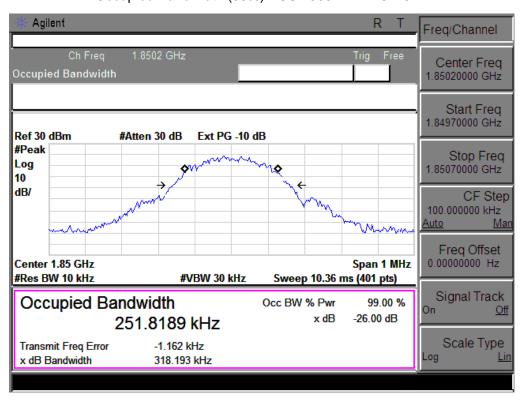
Page 52 of 60

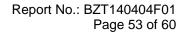


BZT



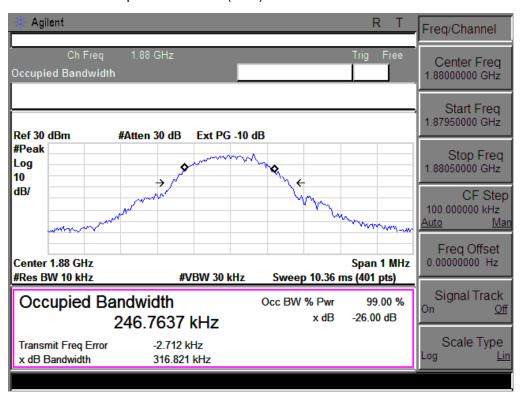
Occupied Bandwidth (99%) PCS 1900 BAND CH 512



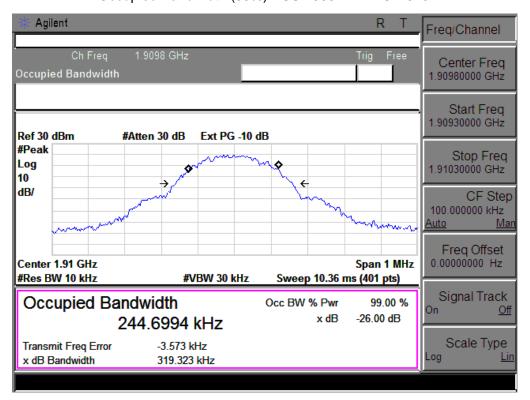


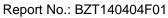


Occupied Bandwidth (99%) PCS 1900 BAND CH 661



Occupied Bandwidth (99%) PCS 1900 BAND CH 810

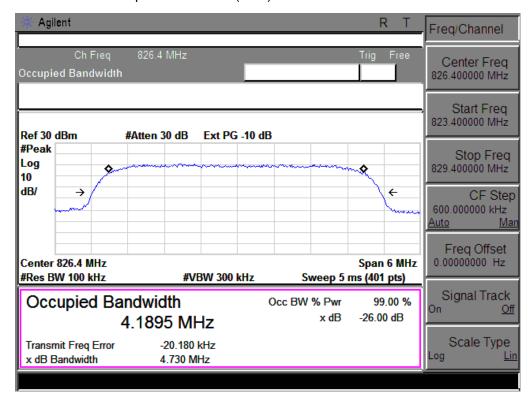




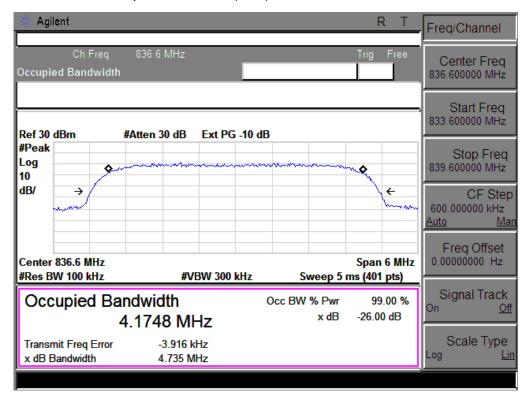
Page 54 of 60

Occupied Bandwidth (99%) UMTS BAND V CH 4132

BZT



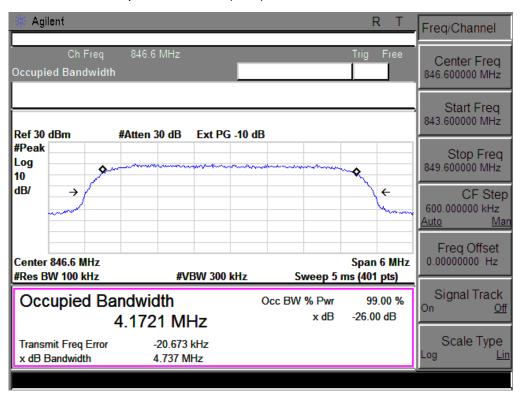
Occupied Bandwidth (99%) UMTS BAND V CH 4183

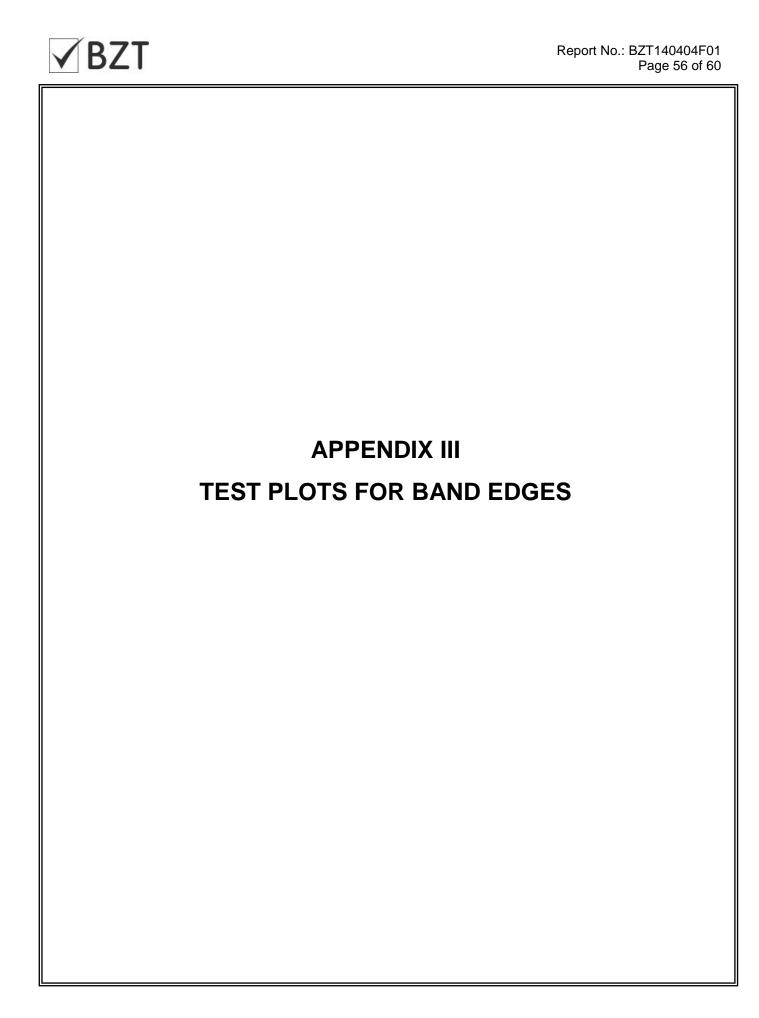


Page 55 of 60



Occupied Bandwidth (99%) UMTS BAND V CH 4233



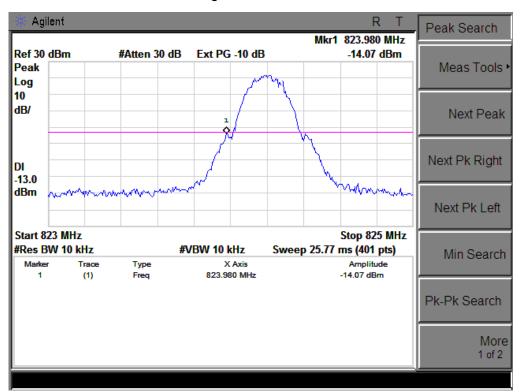




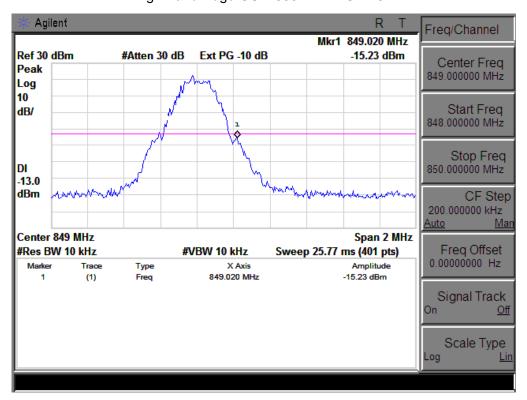


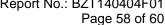
Page 57 of 60

Low Band Edge GSM 850 BAND CH 128



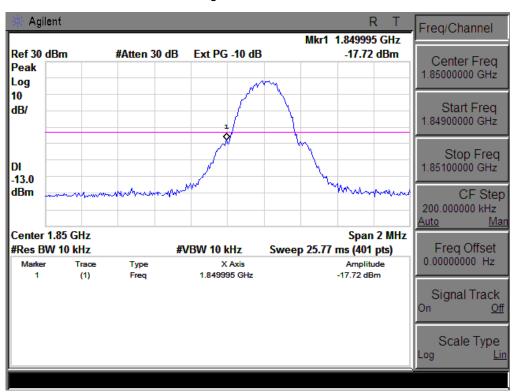
High Band Edge GSM 850 BAND CH 251



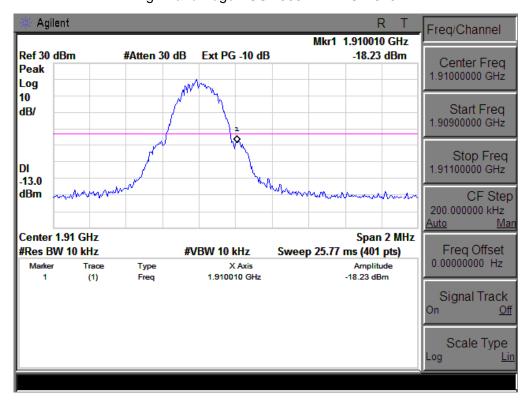




Low Band Edge PCS 1900 BAND CH 512



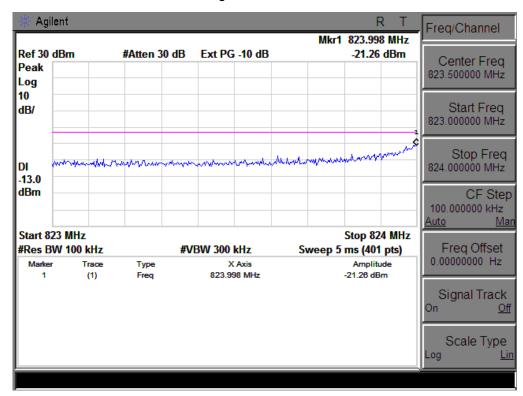
High Band Edge PCS 1900 BAND CH 810



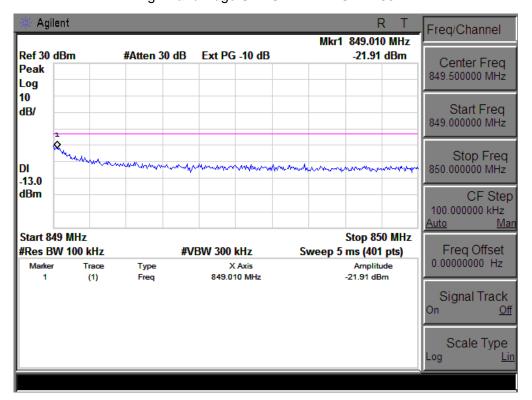




Low Band Edge UMTS BAND V CH 4132



High Band Edge UMTS BAND V CH 4233



Report No.: BZT140404F01 Page 60 of 60



APPENDIX IV PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION





----END OF REPORT----