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Report No.: EBO1412008-E420

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# **FCC Report**

Applicant: SIMPLEX TECNOLOGIA S.A.S

Address of Applicant: Calle 125 # 19-89 of 502, Bogota DC, Colombia

**Equipment Under Test (EUT)** 

Product Name: TABLET PC WITH 3G FUNCTION

Brand Name: Simplex

Model No.: Miratio 600

FCC ID: 2ADT2S-MIRATIO600

**Applicable standards:** FCC CFR Title 47 Part 2: 2013

FCC CFR Title 47 Part22 Subpart H: 2013 FCC CFR Title 47 Part24 Subpart E: 2013

Date of sample receipt: January 05, 2015

Date of Test: January 05, 2015 To January 09, 2015

Date of report issued: January 09, 2015

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kevin Yu Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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# 2 Version

Version No.	Date	Description
00	January 09, 2015	Original

Prepared By:	Jason	Date:	January 09, 2015
	Project Engineer		
Check By:	Coury	Date:	January 09, 2015
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result	
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)	
RF Output Power	Part 2.1046	Pass	
Modulation Characteristics	Part 2.1047	Pass	
	Part 2.1049		
99% & -26 dB Occupied Bandwidth	Part 22.917	Pass	
	Part 24.238		
	Part 2.1051		
Spurious Emissions at Antenna Terminal	Part 22.917 (a)	Pass	
	Part 24.238 (a)		
	Part 2.1053		
Field Strength of Spurious Radiation	Part 22.917 (a)	Pass	
	Part 24.238 (a)		
Out of hand omission, Rand Edge	Part 22.917 (a)	Page	
Out of band emission, Band Edge	Part 24.238 (a)	Pass	
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass	
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass	

Pass: The EUT complies with the essential requirements in the standard.



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# 5 General Information

### 5.1 Client Information

Applicant:	SIMPLEX TECNOLOGIA S.A.S
Address of Applicant:	Calle 125 # 19-89 of 502, Bogota DC, Colombia
Manufacturer/Factory:	SHENZHEN FUHAICHUANG TECHNOLOGY CO., LTD.
Address of Manufacturer/	Floor 3, Building A3, Fuqiao Third Zone, Fuyong Town, Bao'an District,
Factory:	Shenzhen

### 5.2 General Description of EUT

TABLET PC WITH 3G FUNCTION
Simplex
Miratio 600
GSM, GPRS, EGPRS, WCDMA
GSM850, PCS1900, WCDMA Band II, WCDMA Band V
GSM850: 824.20MHz-848.80MHz
PCS1900: 1850.20MHz-1909.80MHz
WCDMA Band II: 1852.40MHz -1907.60MHz
WCDMA Band V: 826.40MHz -846.60MHz
12
12
GSM/GPRS: GMSK
EGPRS: GMSK/8PSK
WCDMA Band II/V: QPSK
865255027471212
865255027471220
ELINK_MR601
MR6012H5CW1
Integral antenna
-0.7dBi(GSM850)
-0.8dBi(DCS1900)
-0.8dBi(WCDMA1900)
-0.7dBi(WCDMA 850)
Input: AC 100-240V, 50/60Hz
Output: DC 5.0V, 2A
DC 3.7V Li-ion Battery, 2600mAh



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### **Operation Frequency List:**

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
129	824.40	513	1850.40	4133	826.60	9263	1852.60
· ;	• :	• ;	• ;	• ;	• :	· :	· :
189	836.40	660	1879.80	4181	836.20	9399	1879.80
190	836.60	661	1880.00	4182	836.40	9400	1880.00
191	836.80	662	1880.20	4183	836.60	9401	1880.20
· ;	• ;	• ;	• ;	• ;	• ;	· :	· :
250	848.60	809	1909.60	4232	846.40	9537	1907.40
251	848.80	810	1909.80	4233	846.60	9538	1907.60

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

### Final test channel:

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
190	836.60	661	1880.00	4183	836.60	9400	1880.00
251	848.80	810	1909.80	4233	846.60	9538	1907.60



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# 5.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

# 5.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

# 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

# • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China



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# 6 Test Instruments list

	rest matrume					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
10	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
15	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015
16	Universal radio	Rohde & Schwarz	CMU200	GTS235	May 09 2014	May 08 2015
	communication tester					
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 09 2014	May 08 2015
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 09 2014	May 08 2015
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA
20	Splitter	Agilent	11636B	GTS237	May 09 2014	May 08 2015
21	Power meter	Rohde & Schwarz	NRVS	GTS238	May 09 2014	May 08 2015
22	Spectrum Analyzer	Agilent	E4440A	GTS533	July 01 2014	June 30 2015



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# 7 System test configuration

# 7.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

·	Test modes								
Band	Radiated	Conducted							
GSM 850	■ GSM link ■ GSM link								
	■ EGPRS 1 link	■ EGPRS 1 link							
PCS 1900	■ GSM link	■ GSM link							
	■ EGPRS 1 link	■ EGPRS 1 link							
WCDMA II	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link							
WCDMA Band V	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link							

Note: The maximum power levels are GSM mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band II and V. only these modes were used for all tests.

The conducted power tables are as follows:

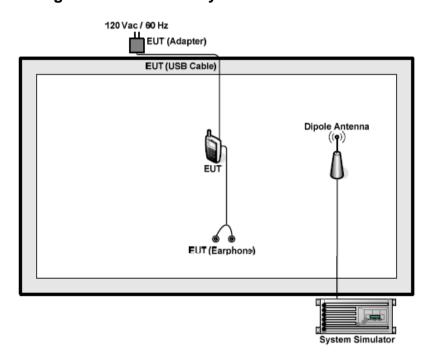
The conducted power tables are as relieved.								
Conducted Power (dBm)								
Band		GSM850			PCS1900			
Channel	128	190	251	512	661	810		
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80		
GSM (GMSK, 1 TX slot)	30.98	31.13	31.16	28.11	27.86	27.32		
GPRS (GMSK, 1 TX slot)	30.88	31.05	31.11	28.10	27.71	27.25		
GPRS (GMSK, 2 TX slot)	30.48	30.63	30.54	26.99	27.03	26.68		
GPRS (GMSK, 3 TX slot)	28.37	28.56	28.72	24.99	25.15	25.12		
GPRS (GMSK, 4 TX slot)	27.42	27.52	27.65	24.18	24.39	24.40		
EGPRS (8PSK, 1 TX slot)	25.72	25.47	25.94	23.06	22.81	23.28		
EGPRS (8PSK, 2 TX slot)	23.71	23.33	23.87	22.04	21.65	22.20		
EGPRS (8PSK, 3 TX slot)	22.61	22.65	22.31	20.93	20.97	20.62		
EGPRS (8PSK, 4 TX slot)	21.63	21.79	21.76	19.94	20.10	20.07		



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Conducted Power (dBm)								
Band	nd WCDMA Band II WCDMA Band V			V				
Channel	9262	9400	9538	4132	4183	4233		
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6		
RMC 12.2Kbps	22.32	22.85	22.51	22.51	22.23	22.64		
HSDPA Subtest-1	21.40	21.82	21.54	21.83	21.47	21.93		
HSDPA Subtest-2	20.85	22.00	21.39	21.42	21.60	21.81		
HSDPA Subtest-3	20.38	21.60	21.07	21.08	21.31	21.57		
HSDPA Subtest-4	20.35	21.59	20.94	21.05	21.30	21.48		
HSUPA Subtest-1	21.39	21.93	21.64	21.82	21.55	22.00		
HSUPA Subtest-2	20.86	22.15	21.49	21.43	21.72	21.89		
HSUPA Subtest-3	20.84	22.11	21.45	21.42	21.68	21.85		
HSUPA Subtest-4	20.90	22.15	21.41	21.46	21.71	21.83		
HSUPA Subtest-5	20.88	22.12	21.36	21.44	21.69	21.79		
AMR	22.00	22.59	22.21	22.28	22.04	22.42		

# 7.2 Configuration of Tested System





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# 7.3 Conducted Peak Output Power

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)	
Test Method:	FCC part2.1046	
Limit:	GSM850, WCDMA Band V: 7W	
	PCS1900, WCDMA Band II: 2W	
Test setup:	EUT Splitter Communication Tester  Power meter	
	Note: Measurement setup for testing on Antenna connector	
Test Procedure:	The transmitter output port was connected to base station.	
	The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.	
	3. Set EUT at maximum power through base station.	
	4. Select lowest, middle, and highest channels for each band and different modulation.	
	5. Measure the maximum burst average power.	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	



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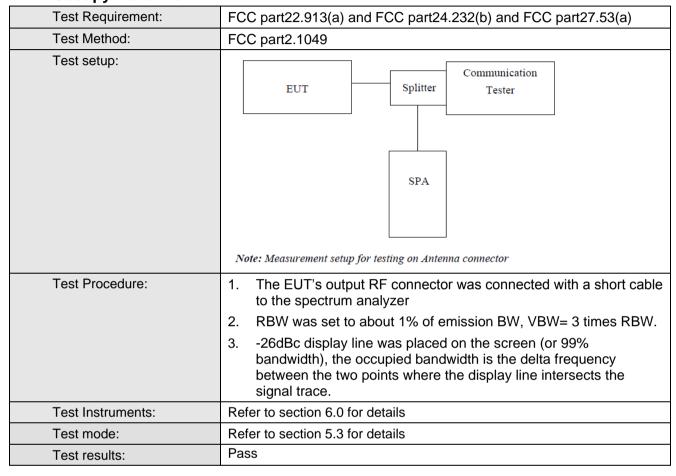
#### Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)	Limit (dBm)	Result
GSM 850 (GSM link)	128	824.20	30.98		Pass
	190	836.60	31.13	38.45	
	251	848.80	31.16	]	
GSM 850 (GPRS 1 link)	128	824.20	30.88		Pass
	190	836.60	31.05	38.45	
(Of NO 1 min)	251	848.80	31.11		
0011.050	128	824.20	25.72		Pass
GSM 850 (EGPRS 1 link)	190	836.60	25.47	38.45	
(EGFKS Tillik)	251	848.80	25.94		
	512	1850.20	28.11		Pass
PCS 1900 (GSM link)	661	1880.00	27.86	33.01	
(GSIVI IIIIK)	810	1909.80	27.32		
PCS 1900 (GPRS 1 link)	512	1850.20	28.10		Pass
	661	1880.00	27.71	33.01	
	810	1909.80	27.25		
PCS 1900 (EGPRS 1 link)	512	1850.20	23.06		Pass
	661	1880.00	22.81	33.01	
	810	1909.80	22.28	]	
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	22.51	38.45	Pass
	4183	836.60	22.23		
	4233	846.60	22.64		
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.4	22.32		
	9400	1880.0	22.85	33.01	Pass
	9538	1907.6	22.51		



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# 7.4 Occupy Bandwidth





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### Measurement Data

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
GSM 850 (GSM link)	128	824.20	246.500	321.092
	190	836.60	247.759	320.494
	251	848.80	247.876	315.379
GSM 850 (GPRS 1 link)	128	824.20	237.668	317.746
	190	836.60	235.466	312.242
	251	848.80	238.576	312.815
0011.050	128	824.20	243.169	310.834
GSM 850 (EGPRS 1 link)	190	836.60	247.563	317.060
(LGFNS Tillik)	251	848.80	243.972	317.606
	512	1850.20	249.233	320.181
PCS 1900 (GSM link)	661	1880.00	247.951	327.001
	810	1909.80	249.357	315.914
D00 4000	512	1850.20	250.902	316.165
PCS 1900 (GPRS 1 link)	661	1880.00	246.590	310.851
(GFRS Tillik)	810	1909.80	242.030	317.835
	512	1850.20	247.912	322.735
PCS 1900 (EGPRS 1 link)	661	1880.00	248.403	322.735
(EGFRS Tillik)	810	1909.80	243.125	317.429
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	4204.80	4778.0
	4183	836.60	4185.20	4736.00
	4233	846.60	4151.20	4765.00
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.4	4163.70	4707.00
	9400	1880.0	4174.10	4701.00
	9538	1907.6	4166.00	4714.00

Test plot as follows:



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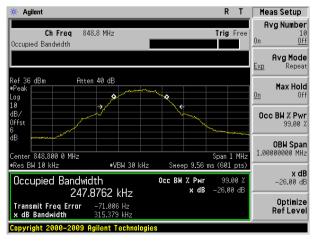
Test band: GSM 850 (GSM link)



#### Lowest channel



### Middle channel

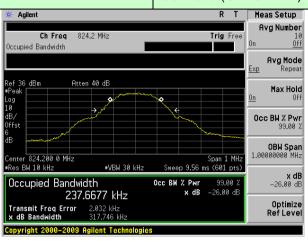


Highest channel:

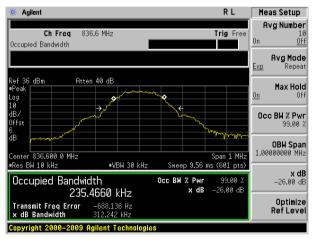


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Test band: GSM 850 (GPRS 1 link)



#### Lowest channel



### Middle channel



Highest channel:

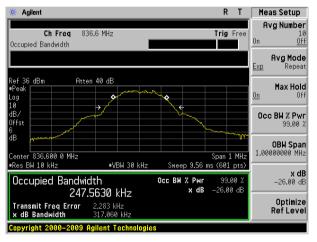


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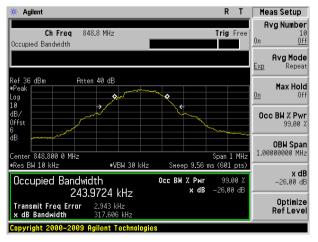
Test band: GSM 850 (EGPRS 1 link)



#### Lowest channel



### Middle channel

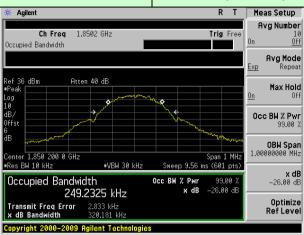


Highest channel:

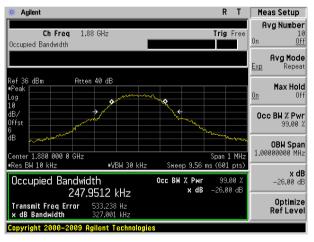


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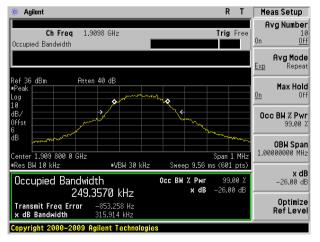
Test band: PCS 1900 (GSM link)



#### Lowest channel



### Middle channel

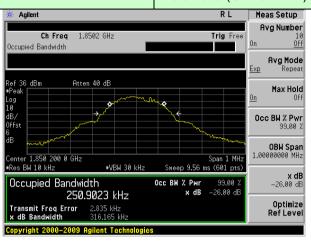


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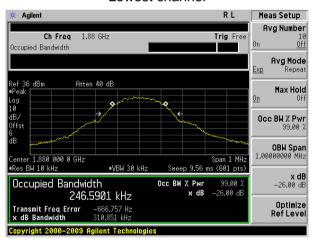


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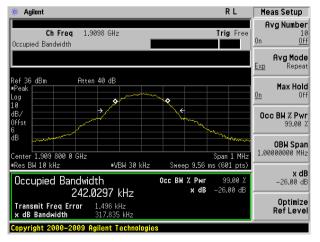
Test band: PCS 1900 (GPRS 1 link)



#### Lowest channel



### Middle channel



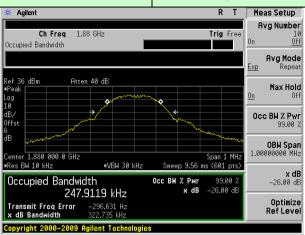
Highest channel:



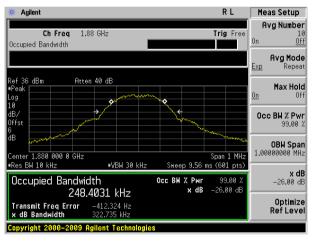
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Test band:

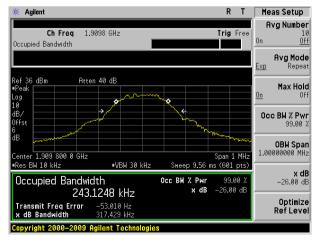
### PCS 1900 (EGPRS 1 link)



#### Lowest channel



### Middle channel



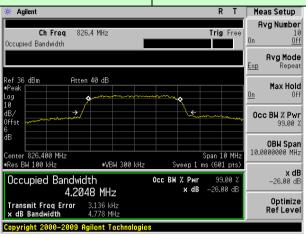
Highest channel:



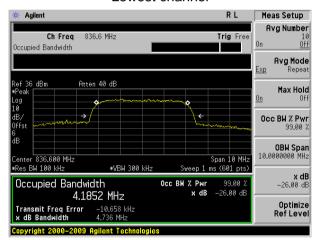
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Test band:

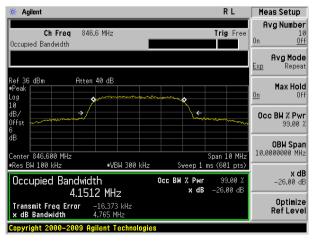
WCDMA Band V (RMC 12.2Kbps link)



#### Lowest channel



### Middle channel



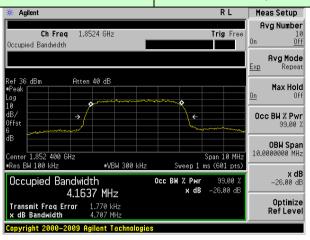
Highest channel:



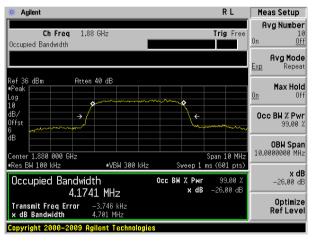
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Test band:

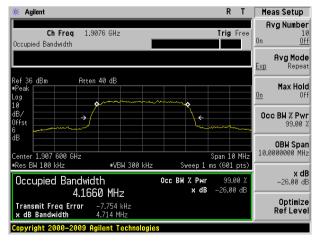
### WCDMA Band II (RMC 12.2Kbps link)



#### Lowest channel



### Middle channel



Highest channel:



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### 7.5 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

### 7.6 Out of band emission at antenna terminals

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)		
Test Method:	FCC part2.1051		
Limit:	-13dBm		
Test setup:	EUT Splitter Communication Tester		
	Filter		
	SPA		
	Note: Measurement setup for testing on Antenna connector		
Test Procedure:	The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.		
	The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.		
	3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.		
	4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

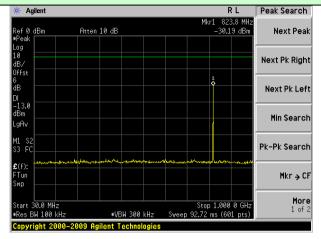
Test plot as follows:

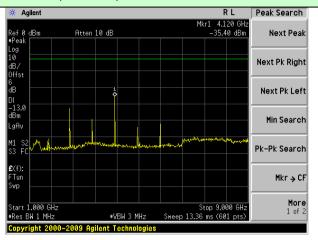


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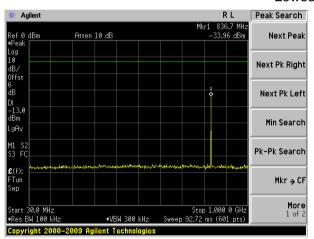
Test Mode: Traffic mode

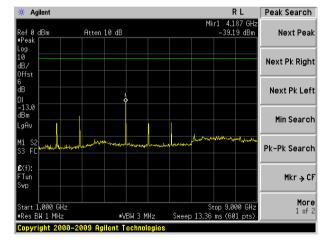
### GSM 850 (GSM link)



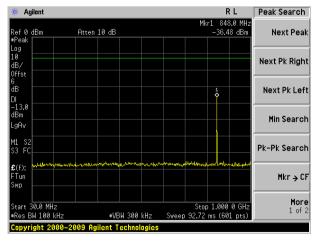


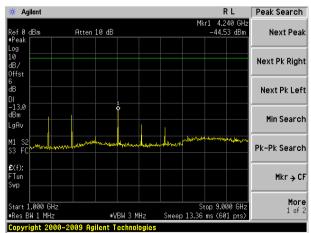
#### Lowest channel





### Middle channel





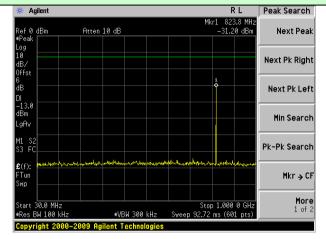
Highest channel

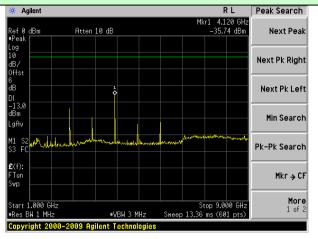


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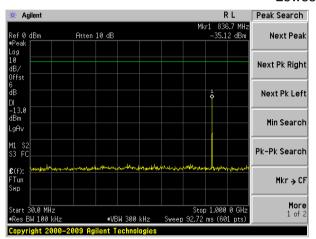
### Test Mode: Traffic mode

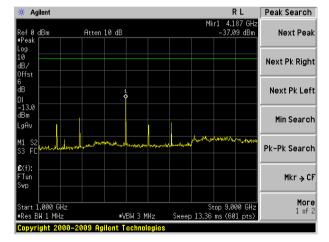
### GSM 850 (GPRS 1 link)



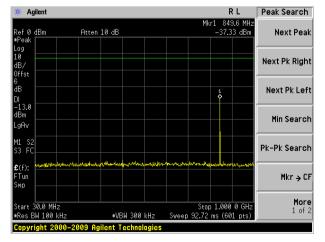


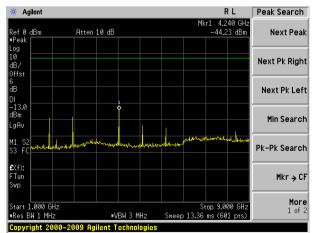
#### Lowest channel





### Middle channel





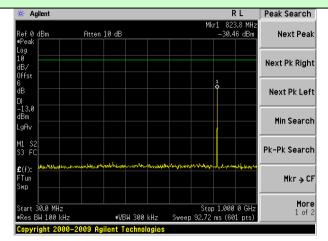
Highest channel

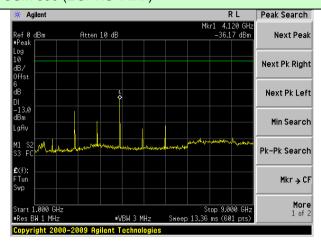


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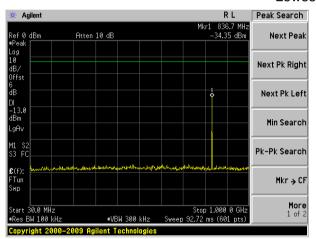
### Test Mode: Traffic mode

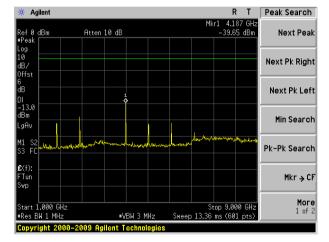
# GSM 850 (EGPRS 1 link)



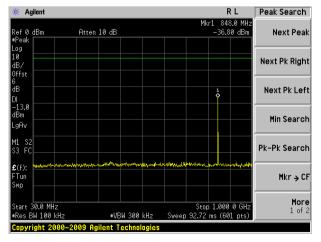


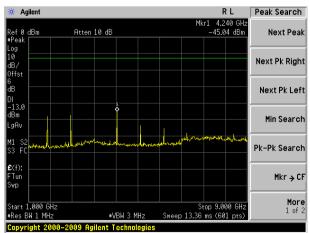
#### Lowest channel





### Middle channel





Highest channel

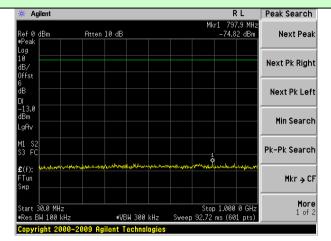


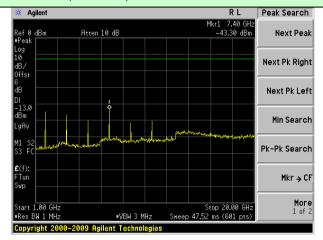
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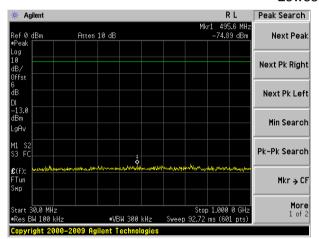
### Test Mode: Traffic mode

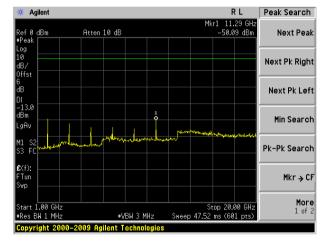
### PCS1900 (GSM link)



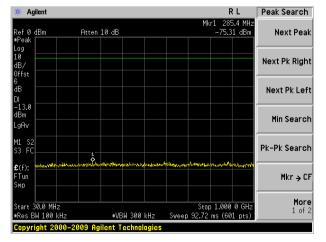


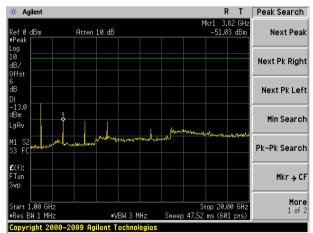
#### Lowest channel





### Middle channel





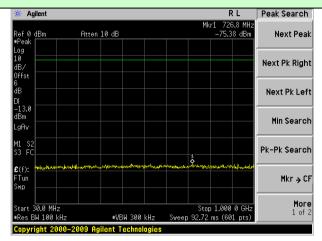
Highest channel

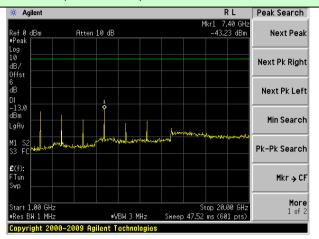


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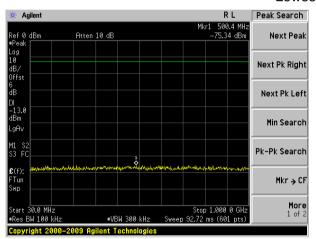
### Test Mode: Traffic mode

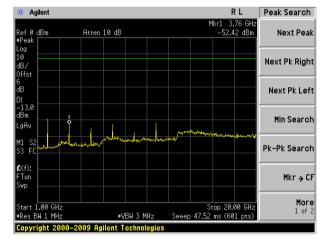
# PCS1900 (GPRS 1 link)



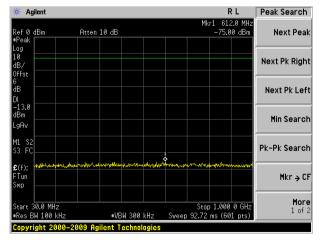


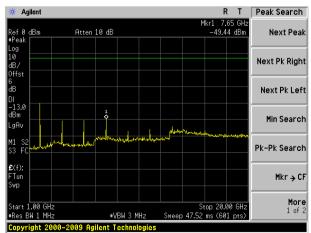
#### Lowest channel





### Middle channel





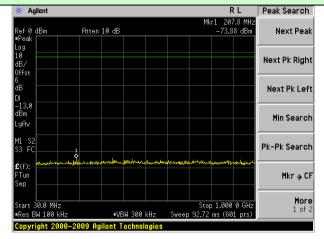
Highest channel

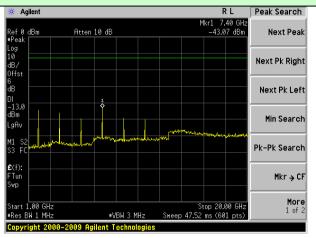


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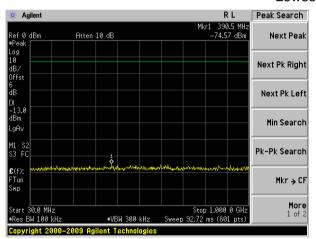
### Test Mode: Traffic mode

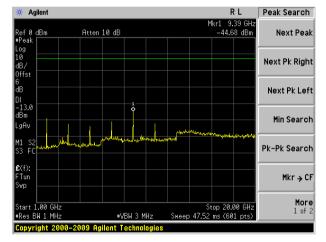
# PCS1900 (EGPRS 1 link)



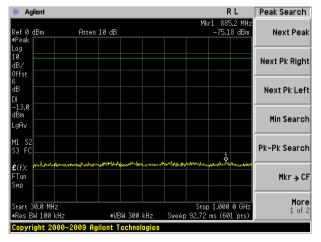


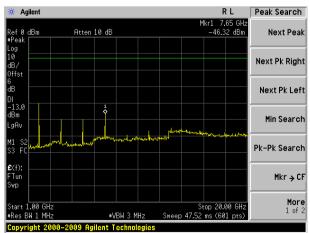
#### Lowest channel





### Middle channel





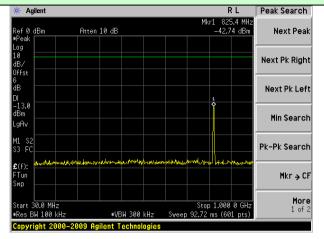
Highest channel

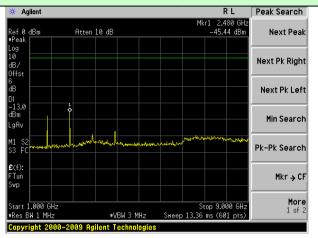


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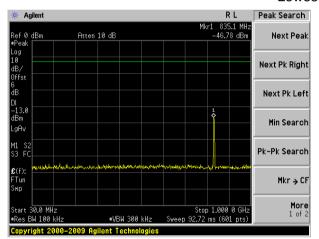
### Test Mode: Traffic mode

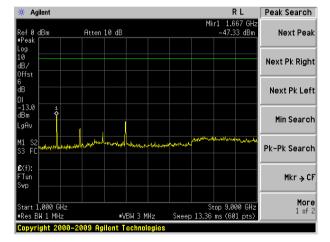
# WCDMA Band V (RMC 12.2Kbps link)



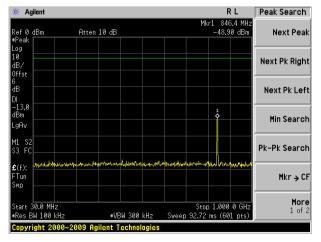


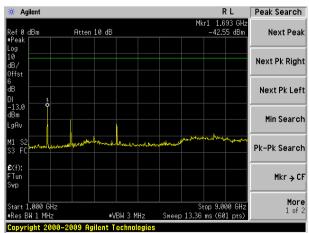
#### Lowest channel





### Middle channel





### Highest channel

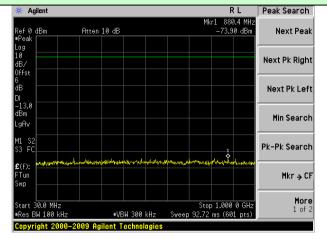


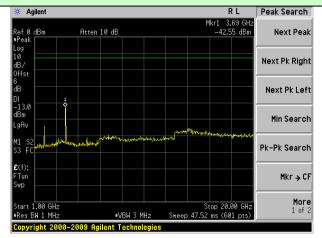
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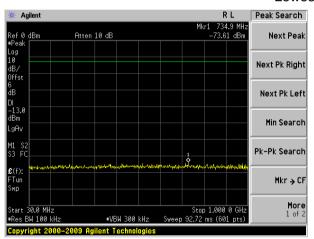
### Test Mode: Traffic mode

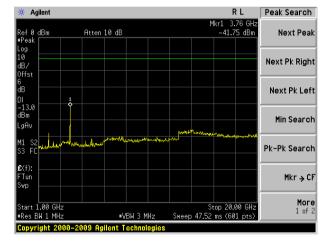
# WCDMA Band II (RMC 12.2Kbps link)



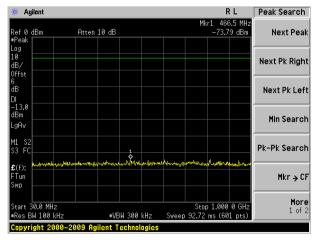


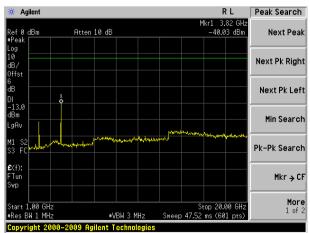
#### Lowest channel





### Middle channel



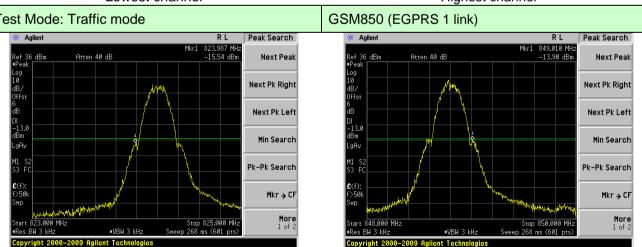


Highest channel



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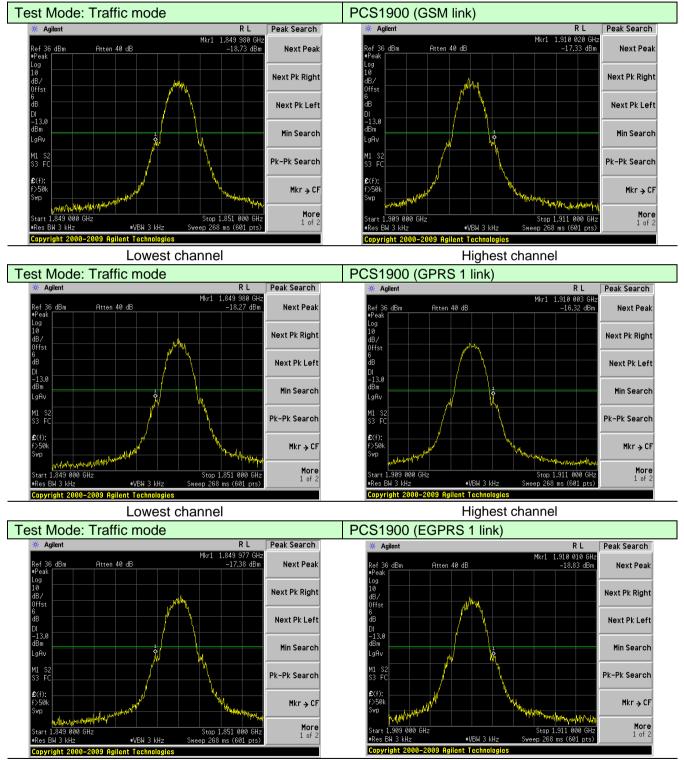
Band Edge: Test Mode: Traffic mode GSM850 (GSM link) R T Peak Search Peak Search 823.977 MHz -14.81 dBm Atten 40 dB Next Peak Next Peak Next Pk Right Next Pk Right Next Pk Left Next Pk Left Min Search Min Search Pk-Pk Search Pk-Pk Search Mkr → CF Mkr → CF More More 1 of 2 #VBW 3 kHz •VBW 3 kHz Copyright 2000-2009 Agilent Technologies Copyright 2000-2009 Agilent Technologies Lowest channel Highest channel Test Mode: Traffic mode GSM850 (GPRS 1 link) Peak Search RL RL Peak Search Next Peak Next Peak Next Pk Right Next Pk Right Next Pk Left Next Pk Left Min Search Min Search Pk-Pk Search Pk-Pk Search Mkr → CF Mkr → CF More Stop 850.000 MH; Sweep 268 ms (601 pts) 48 000 MHz #VBW 3 kHz #VBW 3 kHz Lowest channel Highest channel Test Mode: Traffic mode GSM850 (EGPRS 1 link)



Lowest channel Highest channel



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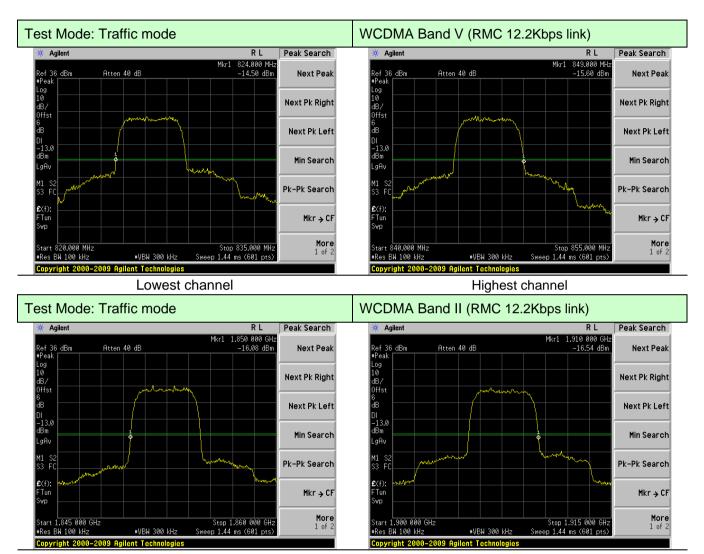


Lowest channel Highest channel



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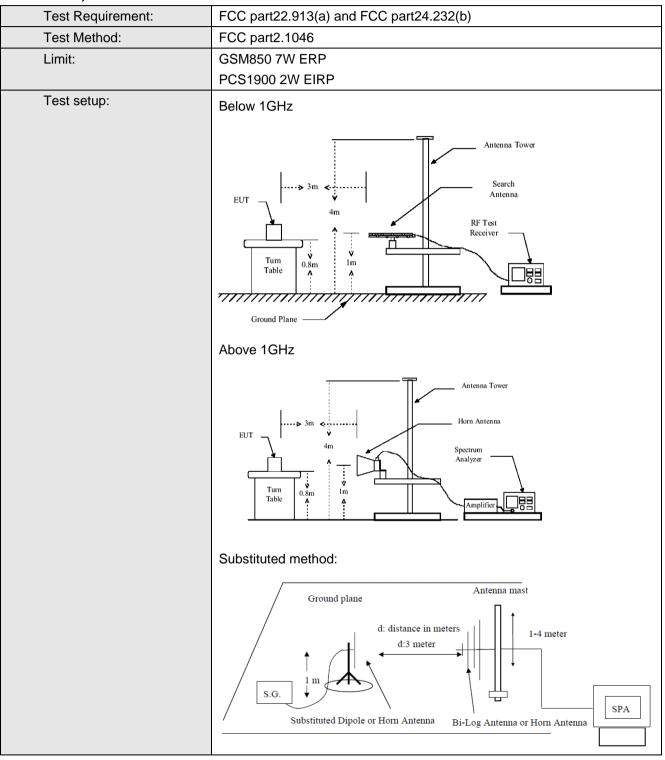


Lowest channel Highest channel



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### 7.7 ERP, EIRP Measurement





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	T
Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data



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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	32.22		
		Н	Н	29.13		
	Laurant	E1	V	23.81	20.45	Dana
	Lowest	<u> </u>	Н	29.37	38.45	Pass
		F2	V	22.93		
		E2	Н	27.06		
	Middle	Н	V	32.21		Pass
			Н	29.14	38.45	
GSM850		E1	V	23.90		
(GSM link)			Н	29.50		
		E2	V	24.60		
			Н	27.65		
		Н	V	32.63		
		П	Н	28.90		
	Highoot	E1	V	23.88	20.45	Door
	Highest	El	Н	28.43	38.45	Pass
		E2	V	22.76		
			Н	28.17		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	31.85		
		Н	Н	28.74		
		F4	V	23.39	00.45	
	Lowest	E1	Н	28.93	38.45	Pass
		Ε0.	V	22.47		
		E2	Н	26.57		
	Middle	Н	V	31.76		Pass
			Н	28.63	38.45	
GSM850		E1	V	23.36		
(GPRS 1 link)			Н	28.93		
		E2	V	24.10		
			Н	27.12		
		Н	V	32.18		
		П	Н	28.43		
	Llighoot	<b>□</b> 1	V	23.38	20.45	Door
	Highest	E1	Н	27.91	38.45	Pass
		F0	V	22.35		
		E2	Н	27.74		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	27.49		
		Н	Н	24.45		
		<b>5</b> 4	V	19.07	00.45	
	Lowest	E1	Н	24.96	38.45	Pass
		Ε0.	V	18.44		
		E2	Н	22.84		
	Middle	Н	V	27.76		Pass
			Н	24.88	38.45	
GSM850		E1	V	19.64		
(EGPRS 1 link)			Н	25.57		
		E2	V	20.17		
			Н	23.44		
		Н	V	27.97		
		П	Н	24.25		
	l limboot	E4	V	19.20	20.45	Daga
	Highest	E1	Н	24.03	38.45	Pass
		F0	V	17.59		
		E2	Н	23.31		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
			V	28.47		
		Н	Н	25.71		
			V	20.94		
	Lowest	E1	Н	25.94	33.01	Pass
			V	20.17		
		E2	Н	23.87		
	Middle		V	28.54		Pass
		Н	Н	25.79	33.01	
PCS1900		E1	V	21.10		
(GSM link)			Н	26.13		
		E2	V	21.73		
			Н	24.45		
		.,	V	29.01		
		Н	Н	25.67		
	I Palacat	F4	V	21.18	00.04	Descri
	Highest	E1	Н	25.26	33.01	Pass
			V	20.16		
		E2	Н	25.02		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result					
			V	28.03							
		Н	Н	25.24							
			V	20.43		_					
	Lowest	E1	Н	25.40	33.01	Pass					
			V	19.59							
		E2	Н	23.26							
	Middle		V	27.98		Pass					
		Н	Н	25.15	33.01						
PCS1900		E1	V	20.42							
(GPRS 1			Н	25.42							
link)		E2	V	21.10							
			Н	23.79							
			V	28.46							
		Н	Н	25.08							
		F4	V	20.56							
	Highest	E1	Н	24.60	33.01	Pass					
		<b>5</b> 0	V	19.66							
							E2	Н	24.49		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
			V	23.81		
		Н	Н	19.35		
		E1	V	13.46		Daga
	Lowest		Н	19.30	33.01	Pass
		E2	V	12.23		
		E2	Н	16.51		
	Middle	Н	V	22.24		Pass
		П	Н	18.59	33.01	
PCS1900		E1	V	12.79		
(EGPRS 1			Н	18.65		
link)		E2	V	13.76		
			Н	16.88		
		Н	V	22.68		
		11	Н	18.51		
	Highoot	E1	V	12.97		_
	Highest	E1	Н	17.72	33.01	Pass
		E2	V	12.30		
			Н	17.97		



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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	23.93		
		Н	Н	21.85		
	Laurant	E1	V	18.34	20.45	Dana
	Lowest		Н	21.79	38.45	Pass
		F2	V	17.58		
		E2	Н	20.11		
	Middle	Н	V	23.70		Pass
		П	Н	21.50	38.45	
WCDMA		E1	V	18.02		
Band V			Н	21.49		
		E2	V	18.62		
			Н	20.46		
		Н	V	22.60		
		П	Н	20.11		
	Highoot	E1	V	16.79	20.45	Pass
	Highest	E1	Н	19.60	38.45	Pass
		E2	V	16.45		
			Н	19.80		



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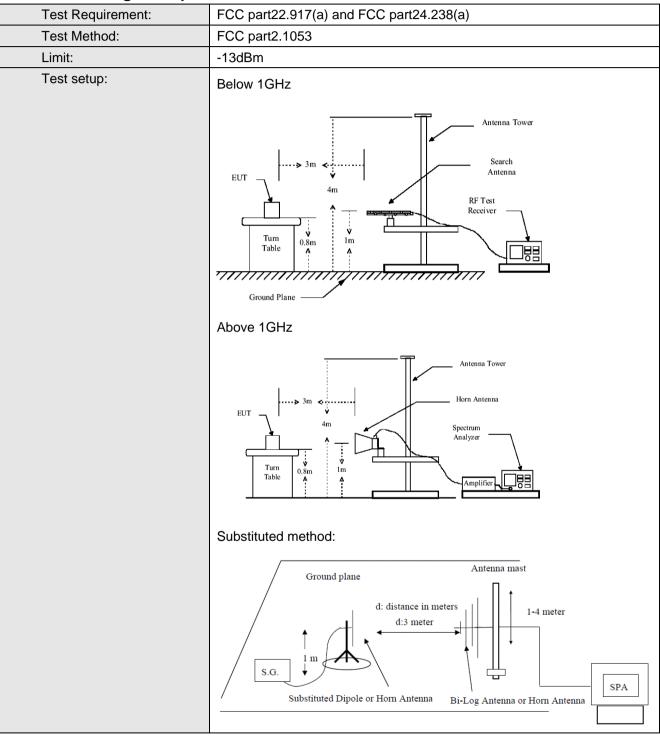
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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			V	24.52		
		Н	Н	22.52		
	Laurant	E1	V	19.08	22.04	Dana
	Lowest		Н	22.61	33.01	Pass
		E2	V	18.47		
		E2	Н	21.09		
	Middle	Н	V	24.56		Pass
		11	Н	22.53	33.01	
WCDMA		E1	V	19.15		
Band II			Н	22.70		
		E2	V	19.63		
			Н	21.55		
		Н	V	23.44		
		11	Н	21.03		
	Lighoot	E1	V	17.78	22.01	Door
	Highest	E1	Н	20.67	33.01	Pass
		E2	V	17.17		
		LZ	Н	20.61		



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## 7.8 Field strength of spurious radiation measurement





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Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	<ol> <li>During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> </ol>
	<ol> <li>The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).</li> <li>Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> </ol>
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) –
	Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data



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Test mode:	GS	M850	Test channel:	Lowest	
[	Spurious	Emission	Limit (dDm)	Danish	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1648.40	Vertical	-36.17			
2472.60	V	-38.90			
3296.80	V	-41.15	-13.00	Pass	
4121.00	V	-43.31			
4945.20	V				
1648.40	Horizontal	-41.40			
2472.60	Н	-45.25			
3296.80	Н	-46.81	-13.00	Pass	
4121.00	Н	-49.53			
4945.20	Н				
Test mode:	GS	M850	Test channel:	Middle	
[	Spurious	Emission	Lineit (dDne)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1673.20	Vertical	-37.50			
2509.80	V	-39.77			
3346.40	V	-41.65	-13.00	Pass	
4183.00	V	-43.45			
5019.60	V				
1673.20	Horizontal	-41.86			
2509.80	Н	-45.07			
3346.40	Н	-46.37	-13.00	Pass	
4183.00	Н	-48.64			
5019.60	Н				
Test mode:	GS	M850	Test channel:	Highest	
Fraguenov (MHz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1697.60	Vertical	-37.70			
2546.40	V	-39.72			
3395.20	V	-41.39	-13.00	Pass	
4244.00	V	-43.00			
5092.80	V				
1697.60	Horizontal	-41.58			
2546.40	Н	-44.44			
3395.20	Н	-45.59	-13.00	Pass	
4244.00	Н	-47.61			
5092.80	Н		1		



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#### Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



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Test mode:	PCS	S1900	Test channel:	Lowest	
- (141)	Spurious	Emission	1: :: (15. )	5 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3700.40	Vertical	-36.79			
5550.60	V	-39.18			
7400.80	V	-41.16	-13.00	Pass	
9251.00	V	-43.06			
11101.20	V				
3700.40	Horizontal	-41.38			
5550.60	Н	-44.77			
7400.80	Н	-46.13	-13.00	Pass	
9251.00	Н	-48.52			
11101.20	Н				
Test mode:	PCS	S1900	Test channel:	Middle	
Eroguanov (MHz)	Spurious	Emission	Limit (dBm)	Popult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dbm)	Result	
3760.00	Vertical	-34.37			
5640.00	V	-36.85			
7520.00	V	-38.90	-13.00	Pass	
9400.00	V	-40.87			
11280.00	V				
3760.00	Horizontal	-39.13			
5640.00	Н	-42.63			
7520.00	Н	-44.06	-13.00	Pass	
9400.00	Н	-46.54			
11280.00	Н				
Test mode:	PCS	S1900	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (Wiriz)	Polarization	Level (dBm)	Littiit (dbitt)	Kesuit	
3819.60	Vertical	-35.61			
5729.40	V	-38.01			
7639.20	V	-40.00	-13.00	Pass	
9549.00	V	-41.91			
11458.80	V				
3819.60	Horizontal	-40.22			
5729.40	Н	-43.62			
7639.20	Н	-44.99	-13.00	Pass	
9549.00	Н	-47.39			
11458.80	Н				



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#### Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



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Test mode:	WCDMA Band V		Test channel:	Lowest	
F(M11-)	Spurious	s Emission	Linet (dDne)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1652.80	Vertical	-36.60			
2479.20	V	-40.38			
3305.60	V	-43.15	-13.00	Pass	
4132.00	V	-40.69			
4958.40	V				
1652.80	Horizontal	-39.46			
2479.20	Н	-42.20			
3305.60	Н	-47.65	-13.00	Pass	
4132.00	Н	-51.32			
4958.40	Н				
Test mode:	WCDM	A Band V	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (Miriz)	Polarization	Level (dBm)	Limit (dbin)	Result	
1672.80	Vertical	-38.78			
2509.20	V	-40.11			
3345.60	V	-43.77	-13.00	Pass	
4182.00	V	-46.24			
5018.40	V				
1672.80	Horizontal	-41.28			
2509.20	Н	-43.22		Pass	
3345.60	Н	-47.94	-13.00		
4182.00	Н	-50.37			
5018.40	Н				
Test mode:	WCDM	A Band V	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (Wir 12)	Polarization	Level (dBm)	Limit (dDin)	Nesuit	
1693.20	Vertical	-37.39			
2539.80	V	-39.85			
3386.40	V	-42.51	-13.00	Pass	
4233.00	V	-45.41			
5079.60	V				
1693.20	Horizontal	-40.78			
2539.80	Н	-43.23	_		
3386.40	Н	-44.63	-13.00	Pass	
4233.00	Н	-50.85			
5079.60	Н				



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#### Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



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Test mode:	WCDM	WCDMA Band II		Lowest	
	Spurious	Emission	Line it (alDura)	Danill	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3704.46	Vertical	-39.17			
5556.86	V	-42.23			
7409.26	V	-44.76	-13.00	Pass	
9261.66	V	-47.21			
11114.40	V				
3704.46	Horizontal	-45.05			
5556.86	Н	-49.39			
7409.26	Н	-51.13	-13.00	Pass	
9261.66	Н	-54.18			
11114.40	Н				
Test mode:	WCDM	A Band II	Test channel:	Middle	
Francisco (MIII-)	Spurious	Emission	Line it (dD ne)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3759.83	Vertical	-39.85			
5639.83	V	-42.76			
7519.83	V	-45.16	-13.00	Pass	
9399.83	V	-47.48			
11280.00	V				
3759.83	Horizontal	-45.44			
5639.83	Н	-49.56		Pass	
7519.83	Н	-51.21	-13.00		
9399.83	Н	-54.10			
11280.00	Н				
Test mode:	WCDM	A Band II	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (Miriz)	Polarization	Level (dBm)	Limit (dbin)	Result	
3815.03	Vertical	-39.05			
5722.63	V	-41.76			
7630.23	V	-43.99	-13.00	Pass	
9537.83	V	-46.17	_		
11445.60	V				
3815.03	Horizontal	-44.26			
5722.63	Н	-48.10			
7630.23	Н	-49.64	-13.00	Pass	
9537.83	Н	-52.33			
11445.60	Н				



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#### Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



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#### 7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	Spectrum analyzer EUT  Att.
	Variable Power Supply  Note: Measurement setup for testing on Antenna connector
Test procedure:	<ol> <li>The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>The EUT was placed inside the temperature chamber.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>Repeat step measure with 10°C increased per stage until the highest</li> </ol>
	temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data



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Referen	ce Frequency: GSM8	50 (GSM link) Midd	le channel=190 ch	nannel=836.6MHz	
Troi or or		1	ncy error		Result
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	
	-30	34	0.0411		
	-20	38	0.0454		
	-10	33	0.0397		
	0	28	0.0339		
3.70	10	32	0.0383	2.5	Pass
	20	28	0.0339		
	30	43	0.0512		
	40	39	0.0469		
	50	38	0.0454		
Referenc	e Frequency: GSM850	(GPRS 1 link) Mic	ldle channel=190 d	channel=836.6MH	z
Davier eventied ()/de)	Tomporeture (°C)	Frequer	ncy error	Limit (mm.m.)	Desult
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	28	0.0337	2.5	
	-20	31	0.0371		Pass
	-10	27	0.0320		
	0	24	0.0287		
3.70	10	25	0.0304		
	20	23	0.0270		
	30	38	0.0454		
	40	32	0.0387		
	50	31	0.0371		
Reference	Frequency: GSM850	(EGPRS 1 link) Mi	ddle channel=190	channel=836.6Ml	-lz
Power supplied (Vdc)	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
i ower supplied (vdc)	remperature ( C)	Hz	ppm	Еппі (рріп)	Kesuit
	-30	68	0.0818		
	-20	81	0.0964		
3.70	-10	66	0.0787		İ
	0	56	0.0669		
	10	64	0.0764	2.5	Pass
	20	54	0.0650		
	30	99	0.1179		
	40	85	0.1011		
	50	80	0.0951		



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Referen	ce Frequency: PCS19	00 (GSM link) Mide	dle channel=661 cl	hannel=1880MHz		
			ncy error			
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result	
	-30	41	0.0218			
	-20	50	0.0266			
	-10	41	0.0218			
	0	34	0.0178			
3.70	10	41	0.0218	2.5	Pass	
	20	35	0.0186			
	30	61	0.0322			
	40	52	0.0274			
	50	49	0.0258			
Reference	e Frequency: PCS190	0 (GPRS 1 link) Mi	ddle channel=661	channel=1880MH	z	
D	Tamana ratura (°C)	Frequer	ncy error		Desult	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result	
	-30	48	0.0254			
	-20	56	0.0299	2.5	Pass	
	-10	44	0.0236			
	0	36	0.0190			
3.70	10	46	0.0245			
	20	36	0.0190			
	30	65	0.0344			
	40	53	0.0281			
	50	56	0.0299			
Reference	Frequency: PCS1900	(EGPRS 1 link) M	iddle channel=661	channel=1880MI	-lz	
Power supplied (Vdc)	Temperature (°C)	Frequer	ncy error		Result	
1 ower supplied (vdc)	remperature ( c)	Hz	ppm		Result	
	-30	91	0.0483			
	-20	105	0.0561			
	-10	88	0.0465			
	0	74	0.0391			
3.70	10	89	0.0471	2.5	Pass	
	20	76	0.0402			
	30	117	0.0624			
	40	100	0.0529	]		
	50	104	0.0554			



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Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Davisa averalia di (Vda)	T(9C)	Frequency error		1: ://	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	43	0.0508		
	-20	55	0.0653		
	-10	60	0.0719		
	0	35	0.0416		
3.70	10	46	0.0548	2.5	Pass
	20	49	0.0587		
	30	67	0.0797		
	40	63	0.0758		
	50	73	0.0876		
Refere	nce Frequency: WCDN	MA Band II Middle	channel=9400 cha	nnel=1880.0MHz	
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
Power supplied (vac)	remperature ( C)	Hz	ppm	сини (ррті)	Kesuit
	-30	116	0.0616		
	-20	104	0.0554		
	-10	91	0.0485		
	0	86	0.0457		
3.70	10	80	0.0423	2.5	Pass
	20	70	0.0374	- - -	
	30	86	0.0457		
	40	95	0.0506		
	50	91	0.0485		



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#### 7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Temperature Chamber
	Spectrum analyzer  EUT  Att.  Variable Power Supply  Note: Measurement setup for testing on Antenna connector
Test procedure:	<ol> <li>Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



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#### Measurement Data

Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz						
Temperature (°C)	Power supplied (Vdc)-	Frequency error		Limit (ppm)	Result	
remperature ( C)	Fower supplied (vdc)	Hz	ppm	сіпік (рріп)	Result	
	4.25	19	0.0225			
25	3.70	22	0.0258	2.5	Pass	
	3.40	24	0.0292			
Referer	nce Frequency: GSM85	0 (GPRS 1 link) Mid	ddle channel=190 cl	hannel=836.6MHz		
Temperature (°C)	Power cumplied (\/ds)	Frequency error		Limit (nnm)	Result	
remperature ( C)	Power supplied (Vdc)	Hz	ppm	- Limit (ppm)	Result	
	4.25	22	0.0258			
25	3.70	12	0.0143	2.5	Pass	
	3.40	15	0.0182	Ī .		
Referen	ce Frequency: GSM850	) (EGPRS 1 link) Mi	ddle channel=190 d	channel=836.6MHz	Z	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (nnm)	Desult	
remperature ( C)	1 Ower supplied (vdc)	Hz	ppm	Limit (ppm)	Result	
	4.25	40	0.0475			
25	3.70	45	0.0536	2.5	Pass	
	3.40	50	0.0597			



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Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz						
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result	
remperature ( C)	Fower supplied (vdc)	Hz	ppm	сіпік (рріп)	Kesuit	
	4.25	19	0.0103			
25	3.70	25	0.0135	2.5	Pass	
	3.40	25	0.0135			
Refere	nce Frequency: PCS190	00 (GPRS 1 link) Mi	ddle channel=661 d	channel=1880MHz		
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result	
remperature ( C)	Fower supplied (vac)	Hz	ppm	Limit (ppm)	Nesult	
	4.25	57	0.0302			
25	3.70	41	0.0217	2.5	Pass	
	3.40	44	0.0234			
Referen	ice Frequency: PCS190	0 (EGPRS 1 link) M	liddle channel=661	channel=1880MH	Z	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (nnm)	Dogult	
remperature ( C)	Tower supplied (vdc)	Hz	ppm	Limit (ppm)	Result	
25	4.25	68	0.0359			
	3.70	79	0.0419	2.5	Pass	
	3.40	79	0.0422			



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Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz						
Temperature (°C)	Davier aventied ()/de)	Frequency error		Limit (ppm)	Result	
remperature ( C)	Power supplied (Vdc)	Hz	ppm	штік (рріті)	Result	
	4.25	54	0.0643			
25	3.70	66	0.0794	2.5	Pass	
	3.40	41	0.0493	]		
Refe	erence Frequency: WCD	DMA Band II Middle	channel=940 chanr	nel=1880.0MHz		
Temperature (°C)	Power supplied (Vdc)	Freque	ncy error	Limit (ppm) Res	Result	
remperature ( C)	1 ower supplied (vdc)	Hz	ppm	сіпіі (рріп)	Result	
	4.25	78	0.0416			
25	3.70	67	0.0356	2.5	Pass	
	3.40	73	0.0390			

-----End-----