



Product : WisePad 2

Trade mark : BBPOS Model/Type reference : WPC23

Serial Number : N/A

Report Number : EED32J00095405

FCC ID : 2AB7X-WISEPAD2-3G

Date of Issue : Jun. 21, 2017

Test Standards : 47 CFR Part 2(2015)

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E

Test result : PASS

Prepared for:

BBPOS International Limited
Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road,
Tsuen Wan, NT, Hong Kong

Prepared by:

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Date:

Jun. 21, 2017

Check No.:2402681052















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2 Version

ersion No.	Date	Description
00	Jun. 21, 2017	Original

























































































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3 Test Summary

	GSM 850, WCDMA(E	Band V)				
Test Item	Test Requirement	Test method	Result			
Conducted output power	Part 2.1046(a)/Part 22.913(a)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
Effective Radiated Power of Transmitter(ERP)	Part 2.1046(a)/Part 22.913(a)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
99%&26dB Occupied Bandwidth	Part 2.1049(h)	Part 22.917(b) &KDB 971168 D01v02r02	PASS			
Band Edge at antenna terminals	Part 2.1051/Part 22.917(a)	Part 22.917(b) &KDB 971168 D01v02r02	PASS			
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
Field strength of spurious radiation	Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
Frequency stability	Part 2.1055/ Part 22.355	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
	GSM 1900,WCDMA(I	SM 1900,WCDMA(Band II)				
Test Item	Test Requirement	Test method	Result			
Conducted output power	Part 2.1046(a) /Part 24.232(c)	TIA-603-E-2016&KDB 971168 D01v02r02	PASS			
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
peak-to-average ratio	Part 24.232(d)	KDB 971168 D01v02r02	PASS			
99% &26dBOccupied Bandwidth	Part 2.1049(h)	Part 24.238(b) &KDB 971168 D01v02r02	PASS			
Band Edge at antenna terminals	Part 2.1051/ Part 24.238(a)	Part 24.238(b) &KDB 971168 D01v02r02	PASS			
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
Field strength of spurious radiation	Part 2.1053 /Part 2.1057 / Part 24.238(a)(b)	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			
Frequency stability	Part 2.1055/Part 24.235	TIA-603-E-2016 &KDB 971168 D01v02r02	PASS			

Remark:

The tested sample and the sample information are provided by the client.























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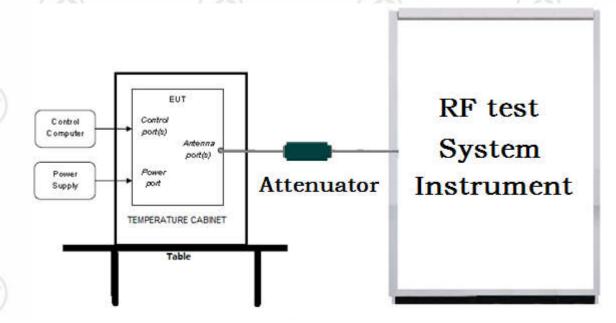




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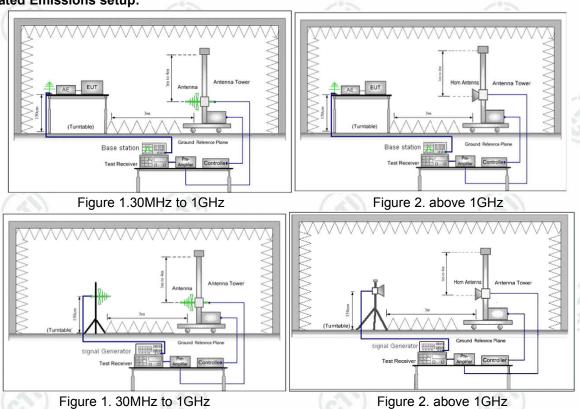
5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:













5.2 Test Environment

Operating Environment:				
Temperature:	22°C			
Humidity:	55% RH			
Atmospheric Pressure:	1010mbar			

5.3 Test Condition

est channel:		14.76	(1000)	1.5		
Took Made	T _V /D _V	RF Channel				
Test Mode	Tx/Rx	Low(L)	Middle(M)	High(H)		
	Tx (004 MHz)	Channel 128	Channel 190	Channel 251		
GPRS/	(824 MHz ~849 MHz)	824.2MHz	836.6 MHz	848.8 MHz		
EDGE850	Rx	Channel 128	Channel 190	Channel 251		
	(869 MHz ~894 MHz)	869.2 MHz	881.6 MHz	893.8 MHz		
WCDMA/HSD	Тх	Channel 4132	Channel 4182	Channel 4233		
PA HSUPA HSPA+(Down Link) band V	(824 MHz ~849 MHz)	826.4 MHz	836.4 MHz	846.6 MHz		
	Rx (869 MHz ~894 MHz)	Channel 4357	Channel 4407	Channel 4458		
		871.4 MHz	881.4 MHz	891.6 MHz		
	Тх	Channel 512	Channel 661	Channel 810		
GPRS/	(1850 MHz ~1910 MHz)	1850.2MHz	1880.0 MHz	1909.8 MHz		
EDGE1900	Rx	Channel 512	Channel 661	Channel 810		
	(1930 MHz ~1990 MHz)	1930.2 MHz	1960.0 MHz	1989.8 MHz		
WCDMA/HSD PA HSUPA	Tx	Channel 9262	Channel 9400	Channel 9538		
	(1850 MHz ~1910 MHz)	1852.4 MHz	1880.0 MHz	1907.6 MHz		
HSPA+(Down Link)	Rx	Channel 9662	Channel 9800	Channel 9938		
Band [°] II	(1930 MHz ~1990 MHz)	1932.4 MHz	1960.0 MHz	1987.6 MHz		

Pre-scan under all rate at lowest middle and highest channel ,find the transmitter power as below:

band	(60	GSM850 (dBm)			GSM850 (dBm) GSM1900 (dBm)			n)
Channel	128	190	251	512	661	810		
Frequency(MHz)	824.2MHz	836.6MHz	848.8MHz	1850.2MHz	1880MHz	1909.8MHz		
GPRS Class 8	32.51	32.62	32.52	28.54	28.42	28.84		
EDGE Class 8	26.73	26.80	27.02	24.71	24.58	24.45		











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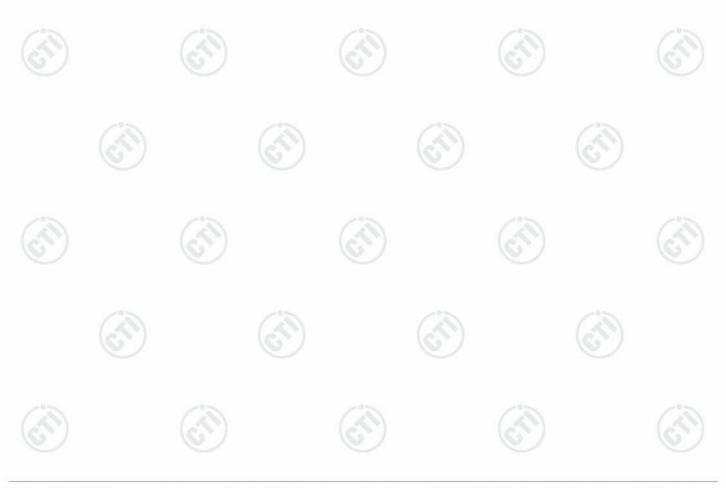


		Page	7 01 100
	WCD	MA Band II (d	IBm)
0.00	9262	9400	9538
z	1852.4MHz	1880MHz	1907.6MHz
	1	100	

band	nd WCDMA Band V		WCDMA Band V (dBm)		MA Band II (d	dBm)
Channel	4132	4182	4233	9262	9400	9538
Frequency(MHz)	826.4MHz	836.4MHz	846.6MHz	1852.4MHz	1880MHz	1907.6MHz
RMC 12.2K	22.62	22.86	22.38	23.12	23.05	22.71
HSDPA	21.62	22.82	22.28	23.42	22.28	22.052
HSUPA	21.07	22.12	21.87	21.12	21.89	22.08

Pre-scan all mode and data rates and positions, find the worse case mode as below:

band	Radiated	Conducted
GPRS/EDGE 850	1)GPRS 8 Link 2)EDGE 8 Link	1)GPRS 8 Link 2)EDGE 8 Link
GPRS/EDGE 1900	1)GPRS 8 Link 2)EDGE 8 Link	1)GPRS 8 Link 2)EDGE 8 Link
WCDMA Band V	1)RMC 12.2Kbps Link 2)HSDPA 3)HSUPA	1)RMC 12.2Kbps Link 2)HSDPA 3)HSUPA
WCDMA Band II	1)RMC 12.2Kbps Link 2)HSDPA 3)HSUPA	1)RMC 12.2Kbps Link 2)HSDPA 3)HSUPA





Test Mode

GSM/TM2

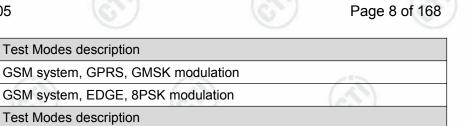
GSM/TM3

Test Mode

UMTS/TM1

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Test mode:



UMTS/TM2	HSDPA sys	stem, QPSK r	nodulation		-0.5
UMTS/TM3	HSUPA sys	stem, QPSK r	nodulation		(3)

WCDMA system, QPSK modulation

























6 General Information

6.1 Client Information

Applicant:	BBPOS International Limited
Address of Applicant:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong
Manufacturer:	BBPOS International Limited
Address of Manufacturer:	Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong

6.2 General Description of EUT

Product Name:	WisePad 2
Mode No.(EUT):	WPC23
Trade Mark:	BBPOS
EUT Supports Radios application:	GPRS/EDGE 850/1900 WCDMA/HSDPA /HSUPA Band V/Band II
Power Supply:	DC 3.7V by Battery DC 5V by USB port
Battery	Li-polymer 3.7V, 750mAh
Sample Received Date:	May 18, 2017
Sample tested Date:	May 18, 2017 to Jun. 21, 2017

6.3 Product Specification subjective to this standard

Frequency Band:	GPRS/EDGE 850: Tx:824.20 -848.80MHz; Rx: 869.20 - 893.80MHz GPRS/EDGE 1900: Tx:1850.20 - 1909.80MHz; Rx:1930.20 - 1989.80MHz WCDMA/HSDPA/HSUPA Band V: Tx:826.40 -846.60MHz; Rx: 871.40 - 891.60MHz WCDMA/HSDPA/HSUPA Band II: Tx:1852.40 - 1907.60MHz; Rx:1932.40 - 1987.60MHz		(File
Modulation Type:	GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation		
Sample Type:	Portable	(30)	
Antenna Type:	Monopole		
Antenna Gain:	GSM850MHz: -2dBi GSM1900MHz: 0dBi WCDMA1900MHz: 0dBi WCDMA850MHz: -2dBi		_°5
Test Voltage:	DC 3.7V by Battery DC 5V by USB port		(6,1)

6.4 Description of Support Units

The EUT has been tested dependently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

6.6 Test Facility

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

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

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A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. 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 our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of

Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758





6.7 Deviation from Standards

None.

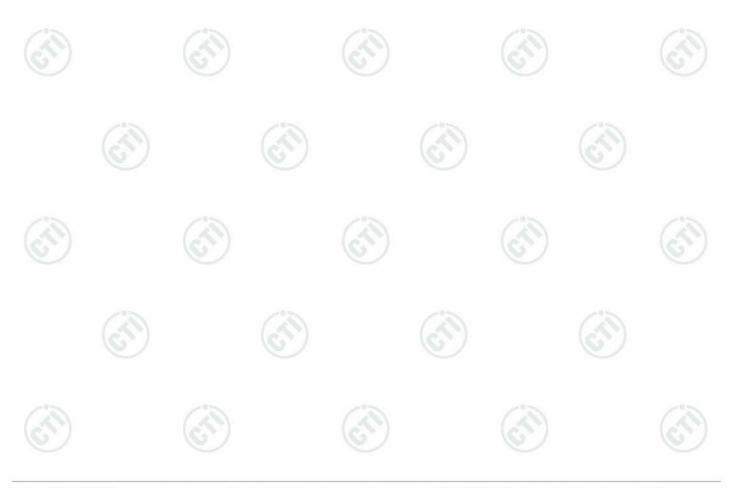
6.8 Abnormalities from Standard Conditions

None.

6.9 Other Information Requested by the CustomerNone.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE nouse and sated	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
3	Dadiated Churique emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%





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7 Equipment List

	Communication RF test system								
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Spectrum Analyzer	Agilent	E4440A	MY46185649	12-16-2016	12-15-2017				
Signal Generator	Agilent	E4438C	MY45095744	03-14-2017	03-13-2018				
Communication test set	Agilent	E5515C	GB47050534	03-14-2017	03-13-2018				
Signal Generator	Keysight	E8257D	MY53401106	03-14-2017	03-13-2018				
Communication test set	R&S	CMW500	152394	03-14-2017	03-13-2018				
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	75	01-12-2017	01-11-2018				
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	(F)	01-12-2017	01-11-2018				
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001		01-12-2017	01-11-2018				
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-12-2017	01-11-2018				
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2017	01-11-2018				
band rejection filter	Sinoscite	FL5CX02CA03C L12-0394-001		01-12-2017	01-11-2018				
DC Power	Keysight	E3642A	MY54426112	03-14-2017	03-13-2018				
DC Power	Keysight	E3642A	MY54426115	03-14-2017	03-13-2018				
PC-2	Lenovo	R4960d		04-01-2017	03-31-2018				
PC-3	Lenovo	R4960d		04-01-2017	03-31-2018				
RF control unit	JS Tonscend	JS0806-1	158060004	03-14-2017	03-13-2018				
DC power Box	JS Tonscend	JS0806-4	158060007	04-01-2017	03-31-2018				
LTE Automatic test software	JS Tonscend	JS1120-1		04-01-2017	03-31-2018				
WCDMA Automatic test software	JS Tonscend	JS1120-3		04-01-2017	03-31-2018				
GSM Automatic test software	JS Tonscend	JS1120-3	(4)	04-01-2017	03-31-2018				





































	Radiated Spu	rious Emission	& Radiated E	mission	
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		06-05-2016	06-05-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-23-2017	05-22-2018
Microwave Preamplifier	Agilent	8449B	3008A02425	02-16-2017	02-15-2018
Horn Antenna	ETS-LINDGREN	3117	00057407	07-20-2015	07-18-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-13-2017	06-12-2018
Receiver	R&S	ESCI	100435	06-13-2017	06-12-2018
Multi device Controller	maturo	NCD/070/10711 112	(C)	01-12-2017	01-11-2018
LISN	schwarzbeck	NNBM8125	81251547	06-13-2017	06-12-2018
LISN	schwarzbeck	NNBM8125	81251548	06-13-2017	06-12-2018
Signal Generator	Agilent	E4438C	MY45095744	03-14-2017	03-13-2018
Signal Generator	Keysight	E8257D	MY53401106	03-14-2017	03-13-2018
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-08-2017	05-07-2018
Communication test set	Agilent	E5515C	GB47050534	03-14-2017	03-13-2018
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2017	01-11-2018
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2017	01-11-2018
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2017	01-11-2018
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2017	01-11-2018
Communication test set	R&S	CMW500	152394	03-14-2017	03-13-2018
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18 NM12-0398-002		01-12-2017	01-11-2018
High-pass filter(6- 18GHz)	MICRO-TRONICS	SPA-F-63029-4		01-12-2017	01-11-2018
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001	(A)	01-12-2017	01-11-2018
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001	(a.)	01-12-2017	01-11-2018
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2017	01-11-2018
band rejection filter	Sinoscite	FL5CX02CA03C L12-0394-001)	01-12-2017	01-11-2018





















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8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	PART 22 (2015)	PART 22 – PUBLIC MOBILE SERVICES Subpart H – Cellular Radiotelephone Service
2	PART 24 (2015)	PART 24 – PERSONAL COMMUNICATIONS SERVICES Subpart E – Broadband PCS
3	PART 2 (2015)	Frequency allocations and radio treaty matters; general rules and regulations
4	TIA-603-E-2016	Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards
5	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v02r02

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part 2.1046(a)/Part 22.913(a)/ part 24.232(c)	TIA-603-E&KDB 971168 D01v02r02	Conducted output power	PASS	Appendix A)
Part 24.232(d)	KDB 971168 D01v02r02	peak-to-average ratio	PASS	Appendix B)
Part 2.1049(h)	Part 22.917(b)/ Part 24.238(b) &KDB 971168 D01v02r02	99% &26dBOccupied Bandwidth	PASS	Appendix C)
Part 2.1051/Part 22.917(a)/ Part 24.238(a)	Part 22.917(b)/ Part 24.238(b) &KDB 971168 D01v02r02	Band Edge at antenna terminals	PASS	Appendix D)
Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)/ Part 24.238(a)(b)	TIA-603-E &KDB 971168 D01v02r02	Spurious emissions at antenna terminals	PASS	Appendix E)
Part 2.1055/ Part 22.355/ Part 24.235	TIA-603-E &KDB 971168 D01v02r02	Frequency stability	PASS	Appendix F)
Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)/ Part 24.238(a)(b)	TIA-603-E &KDB 971168 D01v02r02	Field strength of spurious radiation	PASS	Appendix G)
Part 2.1046(a)/Part 22.913(a)/ Part 24.232(c)	TIA-603-E &KDB 971168 D01v02r02	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix H)











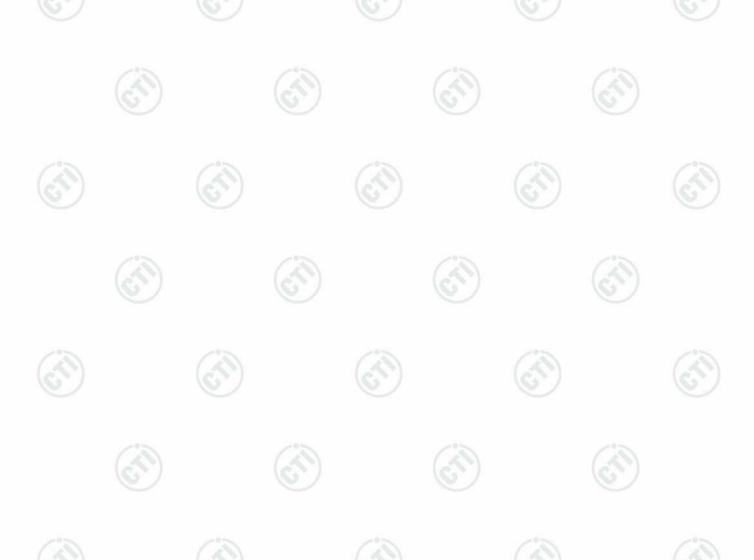




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Appendix A): RF Power Output

Test Requirement:	Part 2.1046(a)							
Test Method:	TIA-603-E-201	6 Clause 2.2.1						
Test Setup:	Refer to section	Refer to section 5 for details						
l imaid.	Mode	GSM 850/WCDMA/HSDPA /HSUPA 850 Band V	GSM 1900/WCDMA/HSDPA /HSUPA 1900 Band II					
Limit:	Frequency	824 – 849MHz	1850 – 1910MHz					
	Limit	38.45dBm (ERP)	33.01dBm (EIRP)					
Measurement Procedure:	and power met Simulator. The power setting. by adding the w were performed	The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the						
Instruments Used:	Refer to section	n 7 for details						
Test Results:	Pass		(2)					









Test Data:						
Test Band	Test Mode	Test Channel	Test slot	Measured(dbm)	Limit (dbm)	Verdic
			Slot1	32.45	38.5	PASS
			Slot2	32.35	38.5	PASS
		LCH	Slot3	30.78	38.5	PASS
			Slot4	29.73	38.5	PASS
			Slot1	32.53	38.5	PASS
			Slot2	32.48	38.5	PASS
	GSM/TM2	MCH	Slot3	30.88	38.5	PASS
			Slot4	29.82	38.5	PASS
			Slot1	32.49	38.5	PASS
			Slot2	32.46	38.5	PASS
		HCH	Slot3	30.98	38.5	PASS
			Slot4	29.86	38.5	PASS
GSM850			Slot1	26.92	38.5	PASS
	(C.)	Slot2	26.88	38.5	PASS	
		LCH	Slot3	26.83	38.5	PASS
	(3)		Slot4	26.82	38.5	PASS
	(6,)	0	Slot1	26.94	38.5	PASS
			Slot2	26.85	38.5	PASS
	GSM/TM3	MCH	Slot3	26.83	38.5	PASS
		6.	Slot4	26.84	38.5	PASS
			Slot1	27.09	38.5	PASS
		(2	Slot2	27.04	38.5	PASS
	(2)	нсн	Slot3	27.08	38.5	PASS
			Slot4	27.00	38.5	PASS
	•					













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	Test Band	Test Mode	Test Channel	Test slot	Measured(dbm)	Limit (dbm)	Verdict
				Slot1	28.47	33	PASS
				Slot2	28.42	33	PASS
			LCH	Slot3	28.44	33	PASS
2				Slot4	28.46	33	PASS
3				Slot1	28.34	33	PASS
				Slot2	28.32	33	PASS
		GSM/TM2	MCH	Slot3	28.30	33	PASS
				Slot4	28.33	33	PASS
			НСН	Slot1	27.98	33	PASS
-				Slot2	27.95	33	PASS
Ś				Slot3	27.93	33	PASS
				Slot4	27.91	33	PASS
	GSM1900	M1900	LCH	Slot1	24.64	33	PASS
				Slot2	24.63	33	PASS
				Slot3	24.56	33	PASS
				Slot4	24.59	33	PASS
Š			(A	Slot1	24.49	33	PASS
2			0	Slot2	24.46	33	PASS
		GSM/TM3	MCH	Slot3	24.40	33	PASS
			Slot4	24.42	33	PASS	
			(6)	Slot1	24.21	33	PASS
				Slot2	24.17	33	PASS
i		(3)	HCH	Slot3	24.18	33	PASS
2		(6.)	6	Slot4	24.18	33	PASS
L					I .	1	1





















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Test Band	Test Mode	Test Channel		Limit (dbm)	Verdict
		LCH	22.66	38.5	PASS
WCDMA850	UMTS/TM1	МСН	22.84	38.5	PASS
		нсн	22.42	38.5	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH	21.68	38.5	PASS
WCDMA850	UMTS/TM2	МСН	22.87	38.5	PASS
		НСН	22.29	38.5	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
7	(0,	LCH	21.09	38.5	PASS
WCDMA850	UMTS/TM3	MCH	22.14	38.5	PASS
		НСН	21.85	38.5	PASS

Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
	(6)	LCH	23.18	33	PASS
WCDMA1900	UMTS/TM1	MCH	23.05	33	PASS
		НСН	22.73	33	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH	23.49	33	PASS
WCDMA1900	UMTS/TM2	MCH	22.27	33	PASS
		НСН	22.51	33	PASS

















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Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH	21.13	33	PASS
WCDMA1900	UMTS/TM3	MCH	21.83	33	PASS
		НСН	22.01	33	PASS











































































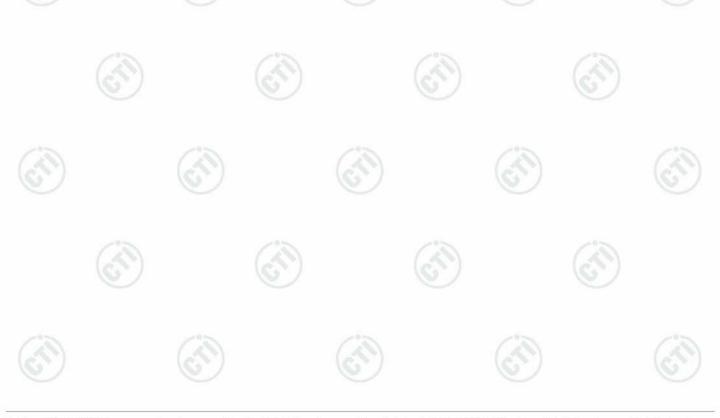
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Appendix B): Peak-to-Average Ratio

Test Requirement:	Part 24.232(d)
Test Method:	KDB 971168 D01
Test Setup:	Refer to section 5 for details
Limit:	13dB
Measurement Procedure:	Use one of the procedures to measure the total peak power and record as PPk. Use one of the applicable procedures to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from: PAPR (dB) = PPk (dBm) - PAvg (dBm).
Instruments Used:	Refer to section 7 for details
Test Results:	Pass

Test Data:

Test Band	Test Mode	Test Channel	Measured (dB)	Limit (dB)	Verdict
	GSM/TM2	LCH	2.66	13	PASS
GSM1900		MCH	2.67	13	PASS
		НСН	2.67	13	PASS
	GSM/TM3	LCH	5.37	13	PASS
		MCH	5.35	13	PASS
		НСН	5.43	13	PASS



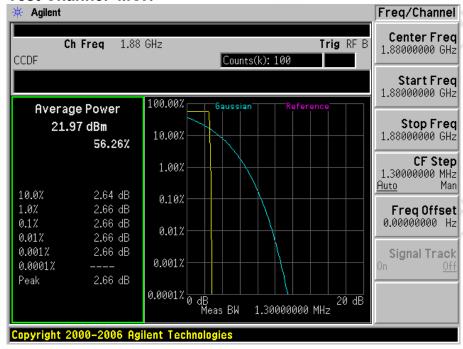


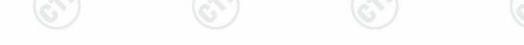
1.1 Test Mode=GSM/TM2

1.1.1.1 Test Channel=LCH



1.1.1.2 Test Channel=MCH









1.1.1.3 Test Channel=HCH



1.2 Test Mode=GSM/TM3

1.2.1.1 Test Channel=LCH





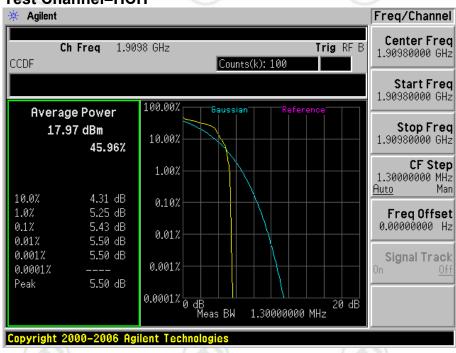


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1.2.1.2 Test Channel=MCH



1.2.1.3 Test Channel=HCH











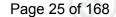




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Test Band	Test Mode	Test Channel Measured(dB)		Limit (dB)	Verdict
		LCH	2.79	13	PASS
WCDMA1900	UMTS/TM1	мсн	2.76	13	PASS
		HCH	2.82	13	PASS
Test Band	Test Mode	Test Channel	Measured(dB)	Limit (dB)	Verdict
		LCH	3	13	PASS
WCDMA1900	UMTS/TM2	MCH	3.27	13	PASS
		HCH	3.08	13	PASS
Test Band	Test Mode	Test Channel	Measured(dB)	Limit (dB)	Verdict
	(0)	LCH	4.26	13	PASS
WCDMA1900	UMTS/TM3	MCH	4.38	13	PASS
		НСН	4.28	13	PASS



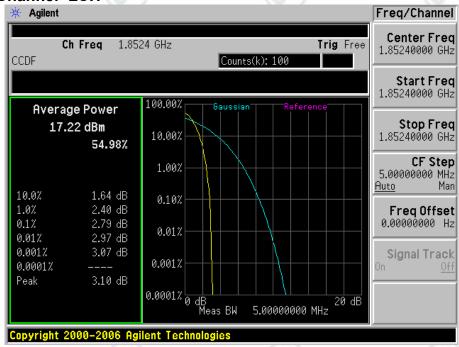




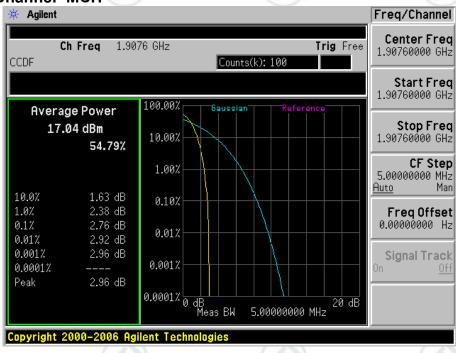
1.1 Test Band=WCDMA1900

1.1.1 Test Mode=UMTS/TM1

1.1.1.1 Test Channel=LCH



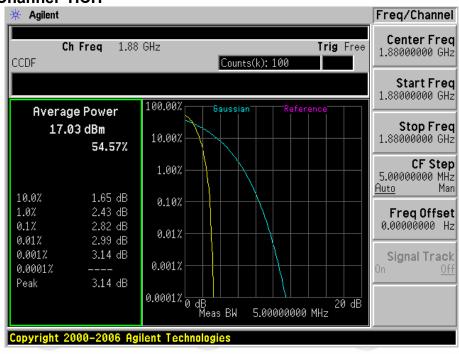
1.1.1.2 Test Channel=MCH





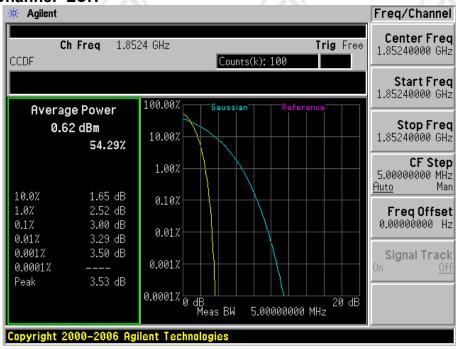


1.1.1.3 Test Channel=HCH



1.1.2 Test Mode=UMTS/TM2

1.1.2.1 Test Channel=LCH





1.1.2.2 Test Channel=MCH



1.1.2.3 Test Channel=HCH















1.1.3 Test Mode=UMTS/TM3

1.1.3.1 Test Channel=LCH



1.1.3.2 Test Channel=MCH



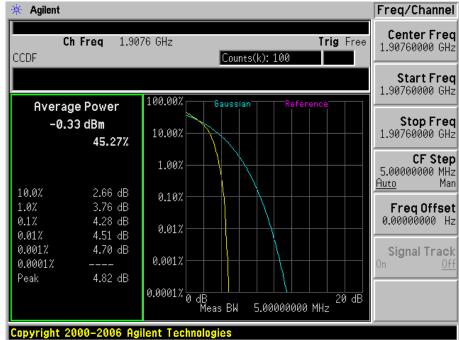


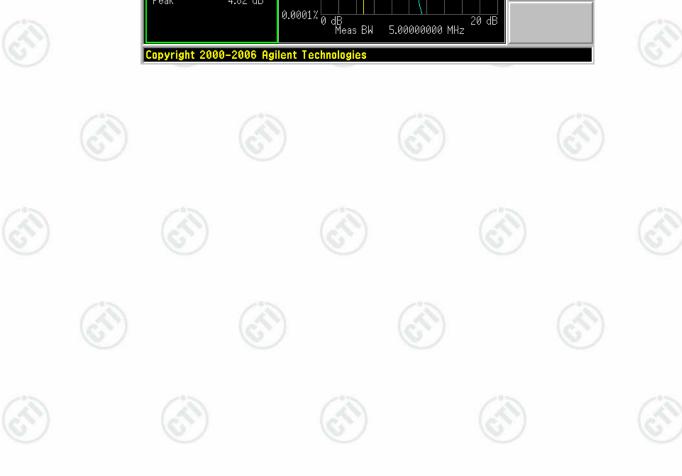






1.1.3.3 Test Channel=HCH

















Appendix C): BandWidth

Test Requirement:	Part 2.1049(h)
Test Method:	Part 22.917(b)/Part 24.238(b)
Test Setup:	Refer to section 5 for details
Limit:	N/A
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel).the resolution bandwidth of the analyser is set to 100kHz or 1% of the emission bandwidth, the EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.
Instruments Used:	Refer to section 7 for details
Test Results:	Pass

Test Data:

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdi
GSM850		LCH	244.35	316.13	PASS
	GSM/TM2	MCH	242.64	311.93	PASS
	100	НСН	244.36	308.59	PASS
		LCH	250.53	314.76	PASS
	GSM/TM3	MCH	249.49	320.42	PASS
		НСН	250.55	314.08	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
	75	LCH	243.88	311.12	PASS
3)	GSM/TM2	МСН	244.02	312.97	PASS
GSM1900		НСН	246.64	314.97	PASS
	GSM/TM3	LCH	253.37	328.55	PASS
		MCH	252.80	324.17	PASS
		НСН	251.50	312.74	PASS











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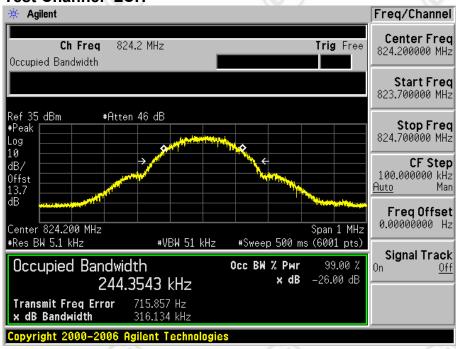
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1 For GSM

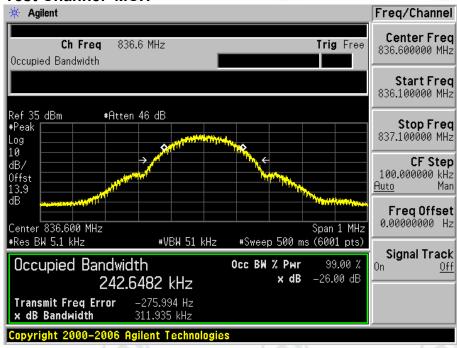
1.1 Test Band=GSM850

1.1.1 Test Mode=GSM/TM2

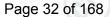
1.1.1.1 Test Channel=LCH



1.1.1.2 Test Channel=MCH

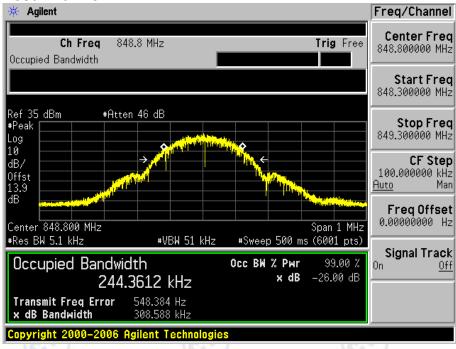






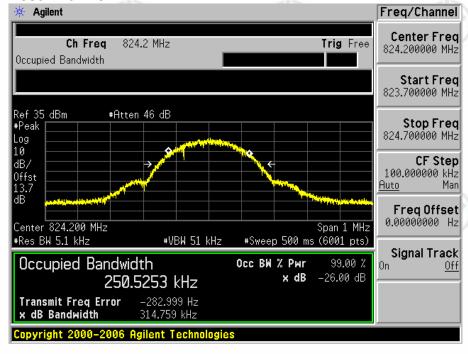


1.1.1.3 Test Channel=HCH

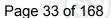


1.1.2 Test Mode=GSM/TM3

1.1.2.1 Test Channel=LCH

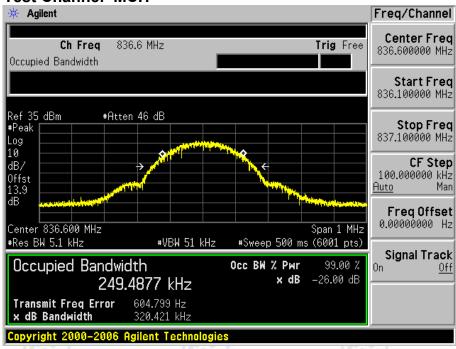




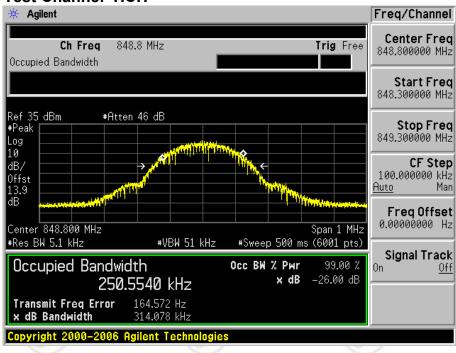




1.1.2.2 Test Channel=MCH



1.1.2.3 Test Channel=HCH







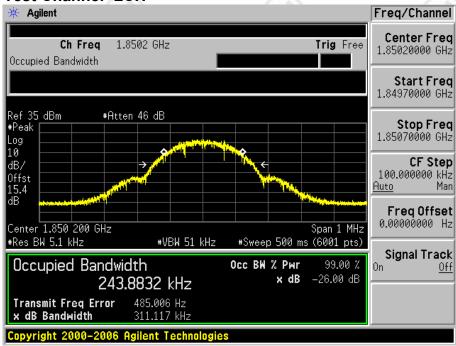




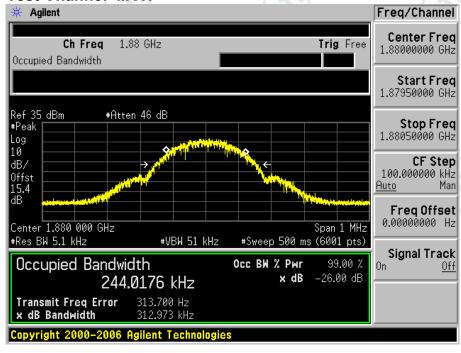


1.2 Test Mode=GSM/TM2

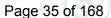
1.2.1.1 Test Channel=LCH



1.2.1.2 Test Channel=MCH

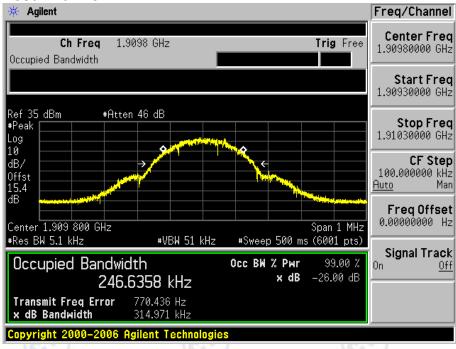






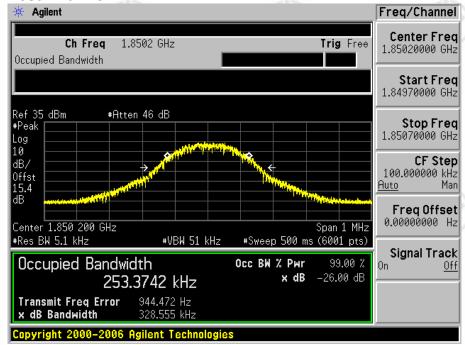


1.2.1.3 Test Channel=HCH

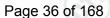


1.3 Test Mode=GSM/TM3

1.3.1.1 Test Channel=LCH

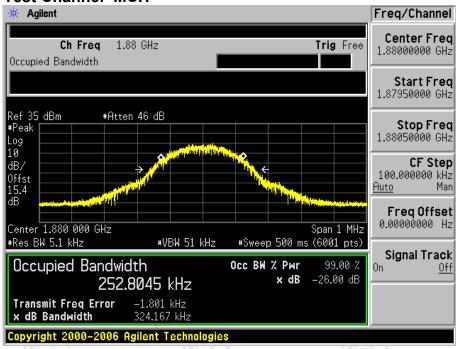




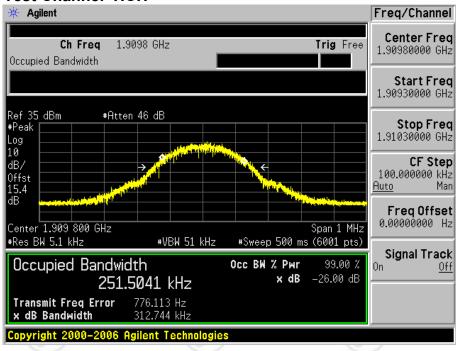




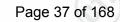
1.3.1.2 Test Channel=MCH



1.3.1.3 Test Channel=HCH









Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA850	UMTS/TM1	LCH	4095.0	4685	PASS
		MCH	4095.8	4672	PASS
		НСН	4063.5	4674	PASS
WCDMA850	UMTS/TM2	LCH	4073.2	4645	PASS
		MCH	4074.6	4675	PASS
		НСН	4084.8	4645	PASS
WCDMA850	UMTS/TM3	LCH	4043.6	4608	PASS
		МСН	4056.6	4607	PASS
		НСН	4051.3	4624	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA1900	UMTS/TM1	LCH	4085.6	4667	PASS
		MCH	4093.7	4667	PASS
		HCH	4078.9	4663	PASS
WCDMA1900	UMTS/TM2	LCH	4064.2	4626	PASS
		MCH	4051.2	4639	PASS
		HCH	4074.4	4618	PASS
WCDMA1900	UMTS/TM3	LCH	4059.7	4626	PASS
		MCH	4050.3	4624	PASS
		HCH	4052.9	4634	PASS





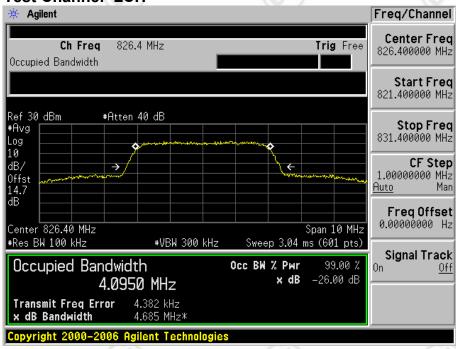
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2 For WCDMA

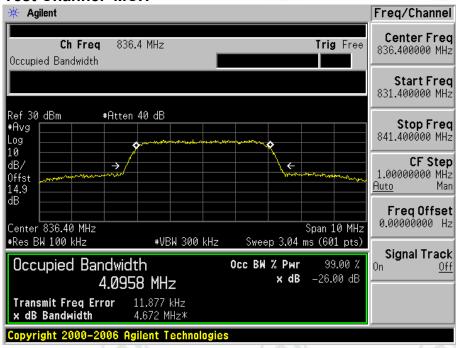
2.1 Test Band=WCDMA850

2.1.1 Test Mode=UMTS/TM1

2.1.1.1 Test Channel=LCH



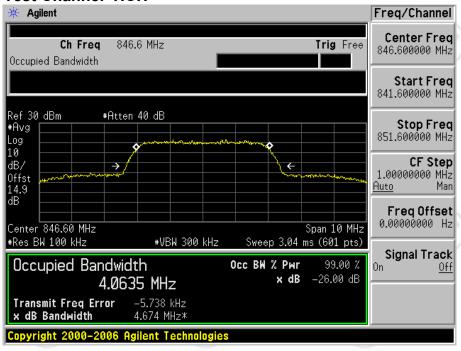
2.1.1.2 Test Channel=MCH





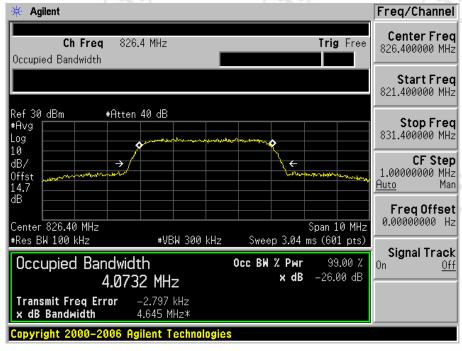


2.1.1.3 Test Channel=HCH



2.1.2 Test Mode=UMTS/TM2

2.1.2.1 Test Channel=LCH







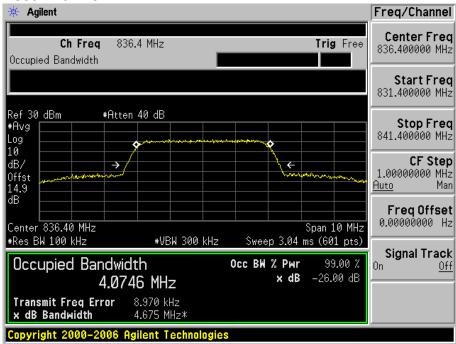




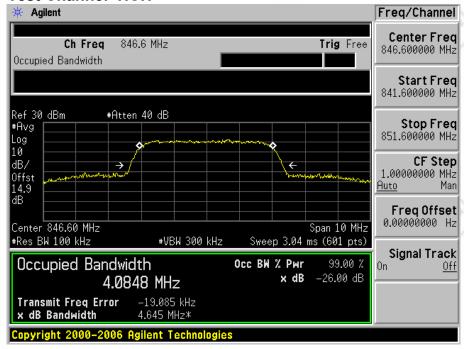




2.1.2.2 Test Channel=MCH



2.1.2.3 Test Channel=HCH









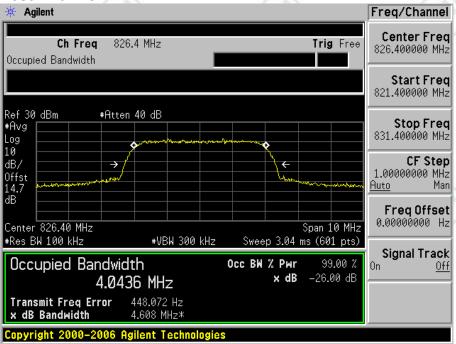




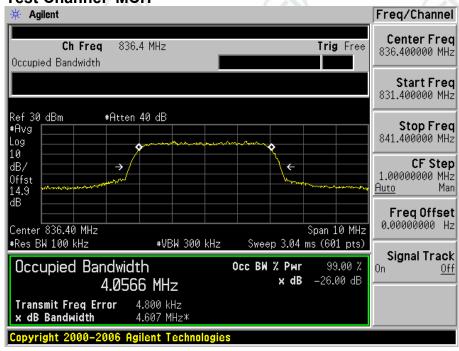


2.1.3 Test Mode=UMTS/TM3

2.1.3.1 Test Channel=LCH



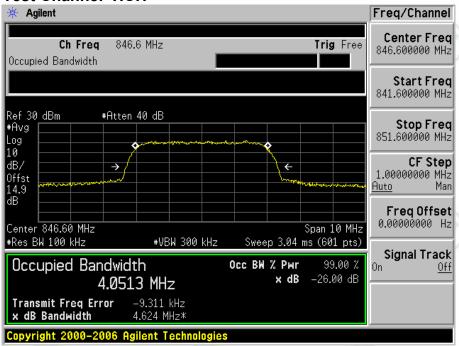
2.1.3.2 Test Channel=MCH



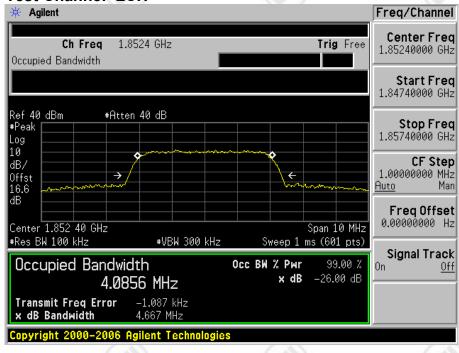




Test Channel=HCH 2.1.3.3

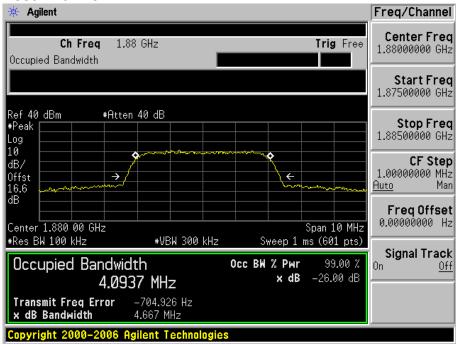


- 2.2 Test Band=WCDMA1900
- 2.2.1 Test Mode=UMTS/TM1
- 2.2.1.1 Test Channel=LCH

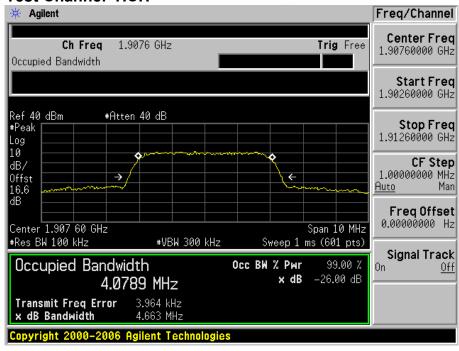




2.2.1.2 Test Channel=MCH



2.2.1.3 Test Channel=HCH









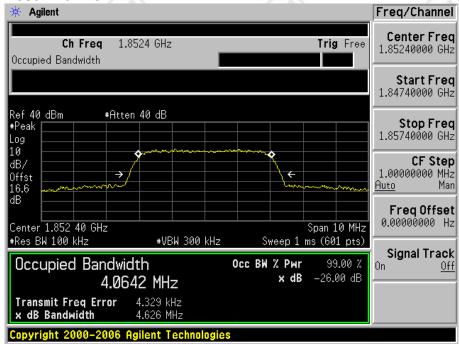




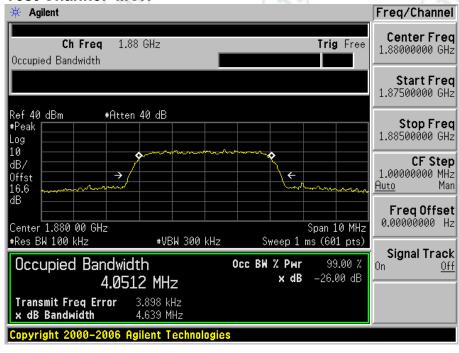


2.2.2 Test Mode=UMTS/TM2

2.2.2.1 Test Channel=LCH



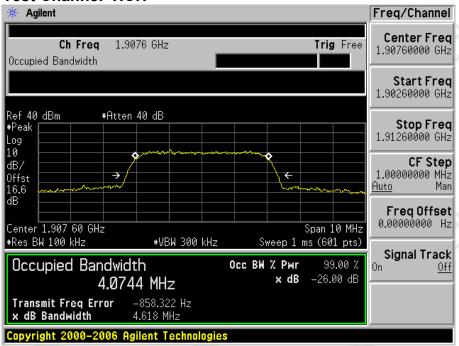
2.2.2.2 Test Channel=MCH





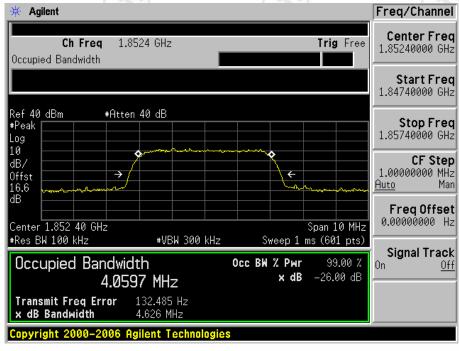


2.2.2.3 Test Channel=HCH



2.2.3 Test Mode=UMTS/TM3

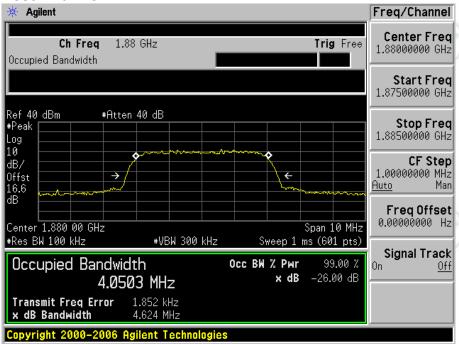
2.2.3.1 Test Channel=LCH



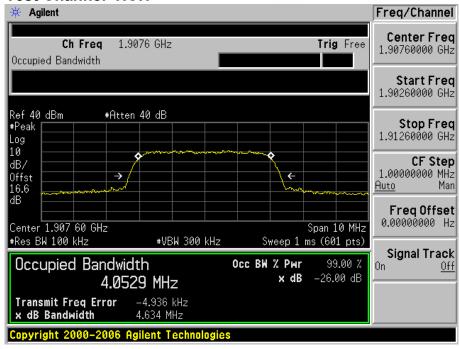




2.2.3.2 Test Channel=MCH



2.2.3.3 Test Channel=HCH















Appendix D): Band Edges Compliance

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Test Requirement:	Part 2.1051				
Test Method:	Part 22.917(b)/Part 24.238(b)				
Test Setup:	Refer to section 5 for details				
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.				
Limit:	Operation Band	Frequency Range (MHz)	Limit		
	GPRS/EDGE/ WCDMA 850	Below 824 and above 849	Attenuated at least 43+10log(P))	
	GPRS/EDGE/ WCDMA 1900	Below 1850 and above 1910	Attenuated at least 43+10log(P)		
Instruments Used:	Refer to section 7 for details				
Test Results:	Pass	(6,)	(6.)		

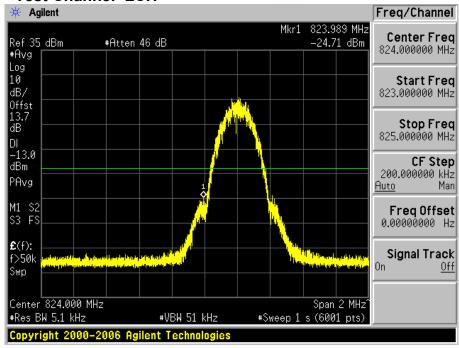
Test result:

1 For GSM

1.1 Test Band=GSM850

1.1.1 Test Mode=GSM/TM3

1.1.1.1 Test Channel=LCH

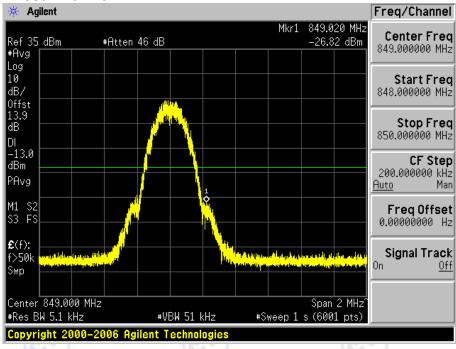


Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com



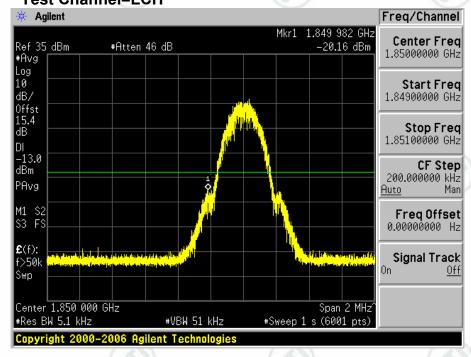
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1.1.1.2 Test Channel=HCH



Test Band=GSM1900

1.1.2 Test Mode=GSM/TM2 1.1.2.1 Test Channel=LCH

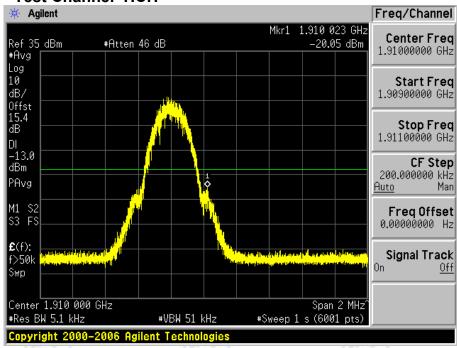






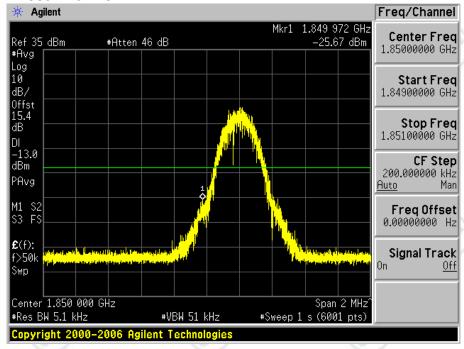
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1.1.2.2 Test Channel=HCH



.3 Test Mode=GSM/TM3

1.1.3.1 Test Channel=LCH









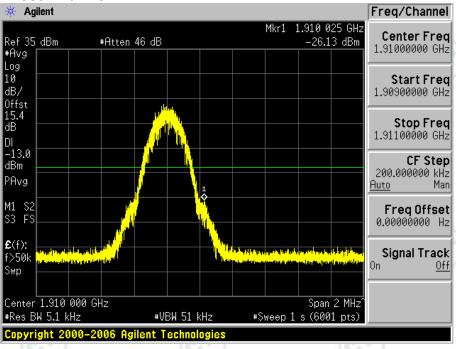






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1.1.3.2 Test Channel=HCH

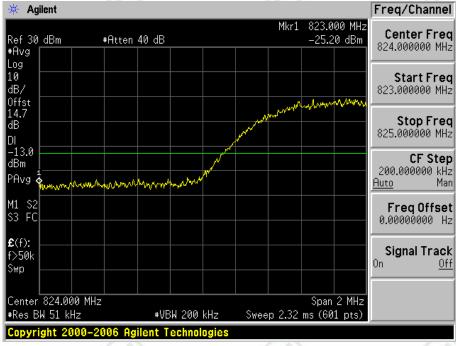


For WCDMA

1.2 **Test Band=WCDMA850**

1.2.1 Test Mode=UMTS/TM1

1.2.1.1 Test Channel=LCH





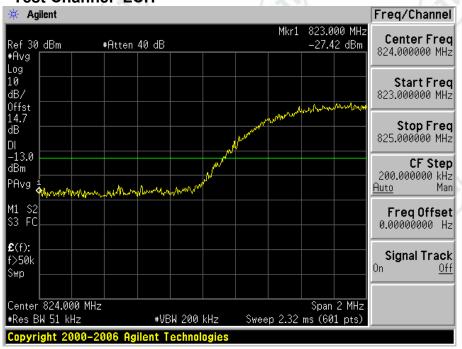


1.2.1.2 Test Channel=HCH



1.2.2 Test Mode=UMTS/TM2

1.2.2.1 Test Channel=LCH







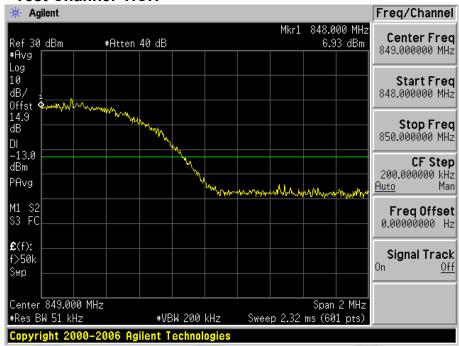






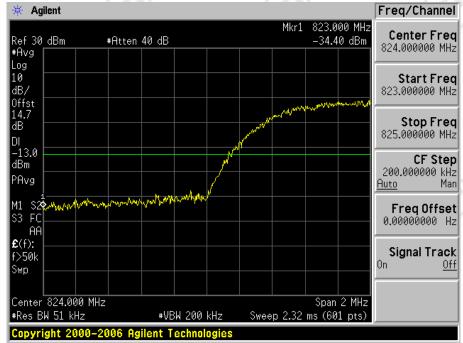


1.2.2.2 Test Channel=HCH



1.2.3 Test Mode=UMTS/TM3

1.2.3.1 Test Channel=LCH







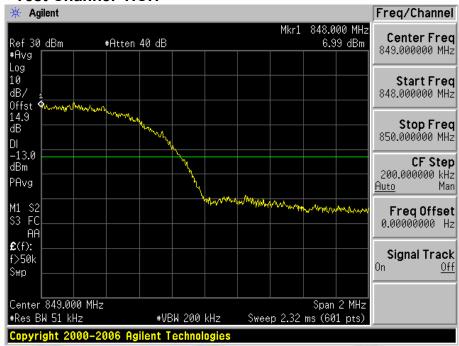








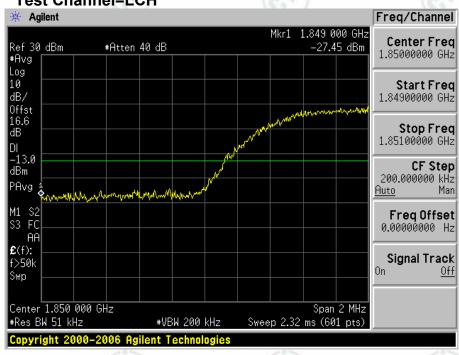
1.2.3.2 Test Channel=HCH



Test Band=WCDMA1900

1.2.4 Test Mode=UMTSTM1

1.2.4.1 Test Channel=LCH



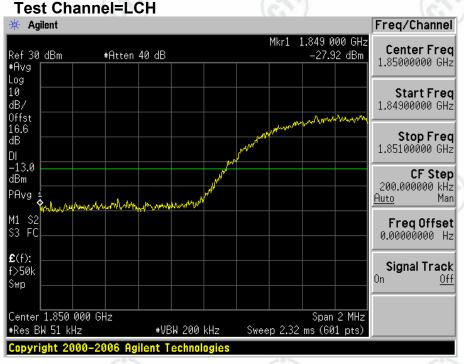




1.2.4.2 Test Channel=HCH



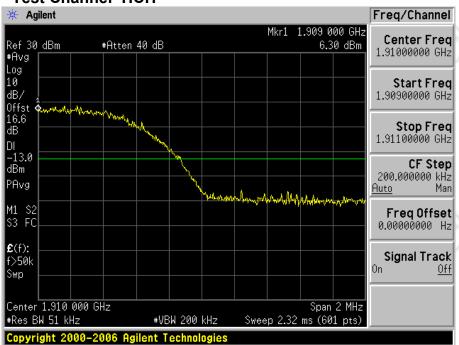
1.2.5 Test Mode=UMTS/TM2 1.2.5.1 Test Channel=LCH





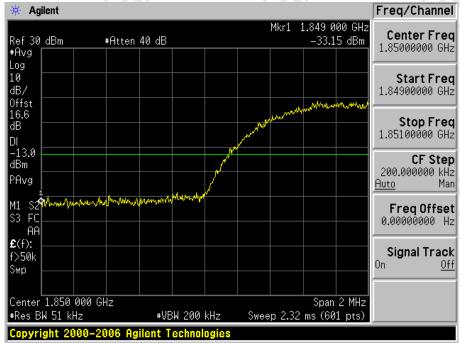


1.2.5.2 Test Channel=HCH



1.2.6 Test Mode=UMTS/TM3

1.2.6.1 Test Channel=LCH













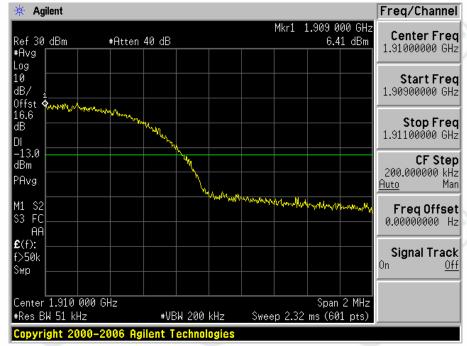






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1.2.6.2 Test Channel=HCH











































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Appendix E): Spurious Emission at Antenna Terminal

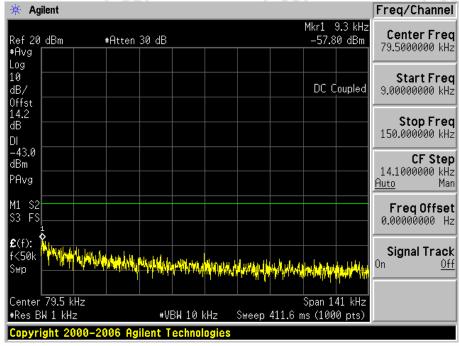
Test Requirement:	Part 2.1051/Part 2.1057
Test Method:	TIA-603-E-2016 Clause 2.2.13
Test Setup:	Refer to section 5 for details
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).the equipment operates below 10GHz: to the tenth harmonic of the highest fundamental frequency or to 40GHz.whichever is lower, the resolution bandwidth of the spectrum analyzer was set at 100kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.the video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to mean or average power.
Instruments Used:	Refer to section 7 for details
Limit:	Attenuated at least 43+10log(P)
Test Results:	Pass

1 For GSM

1.1 Test Band=GSM850

1.1.1 Test Mode=GSM/TM2

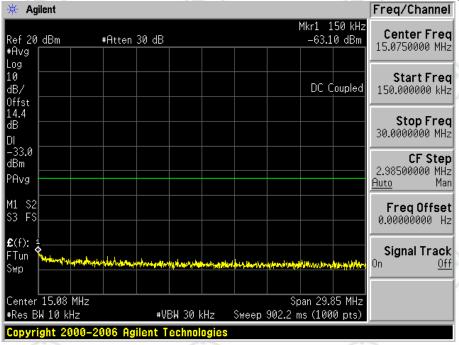
1.1.1.1 Test Channel=LCH

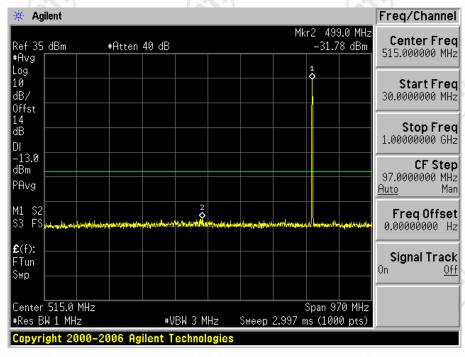


Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com



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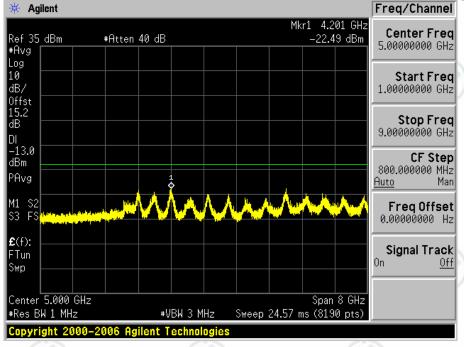




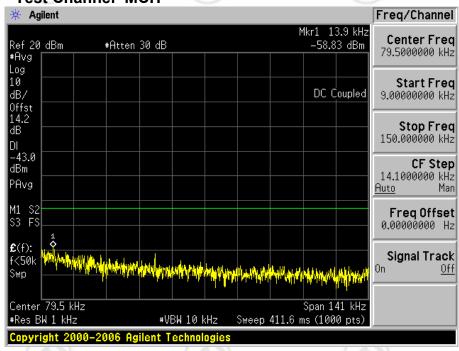




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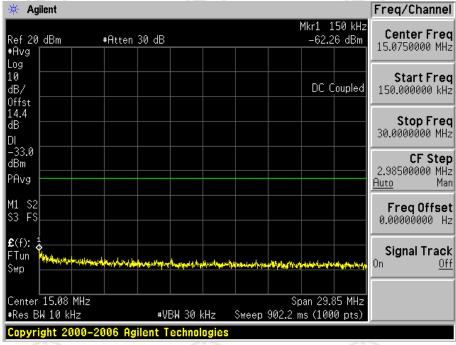
1.1.1.2 Test Channel=MCH

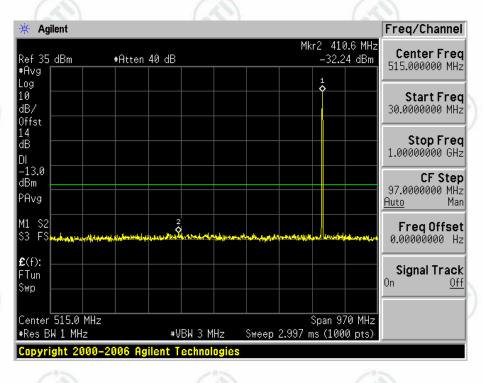








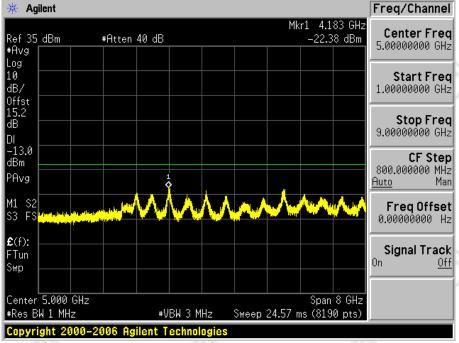




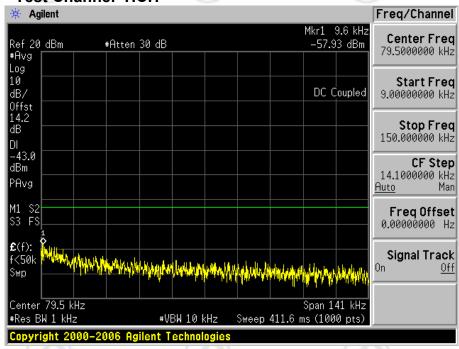




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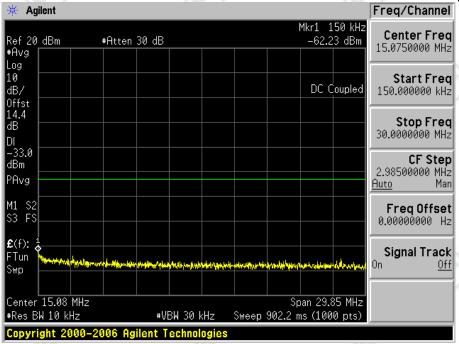
1.1.1.3 Test Channel=HCH

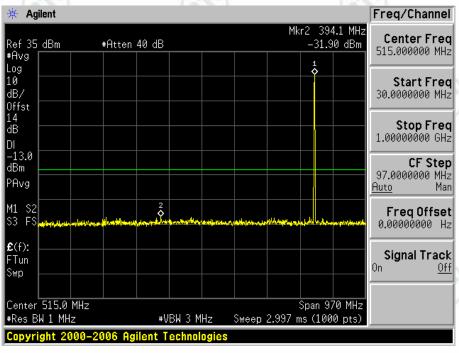






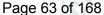
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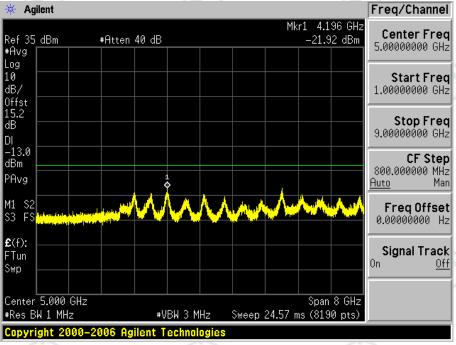






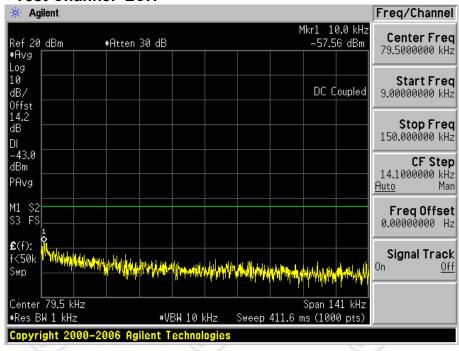






1.1.2 Test Mode=GSM/TM3

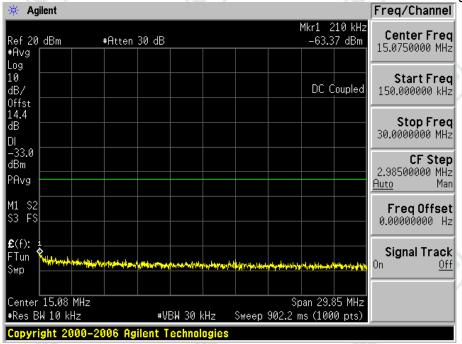
1.1.2.1 Test Channel=LCH

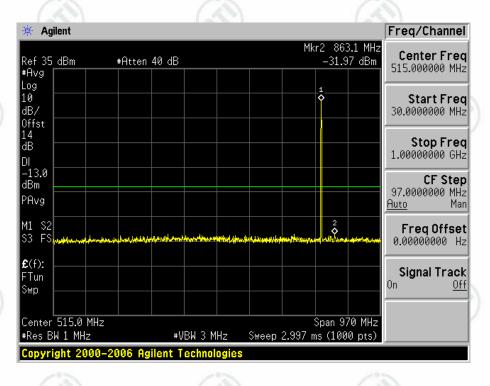






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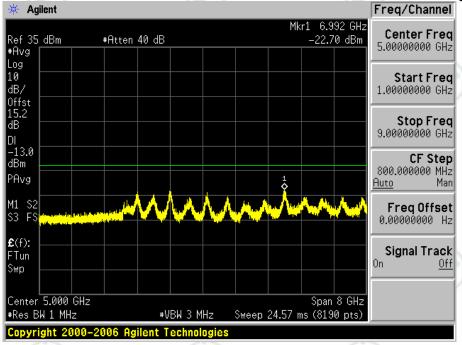




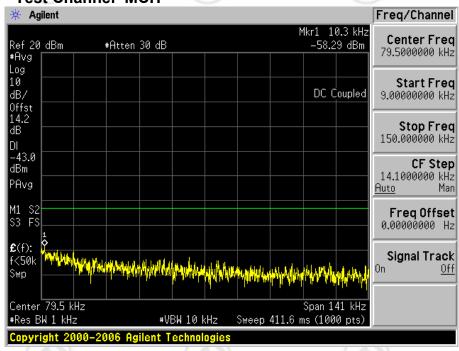




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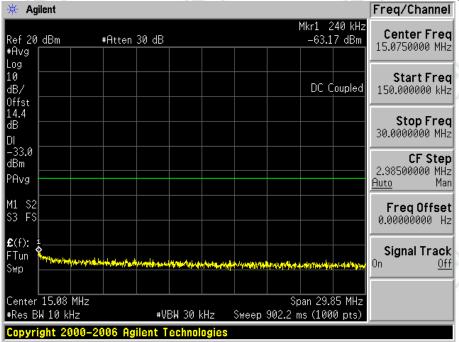
1.1.2.2 Test Channel=MCH

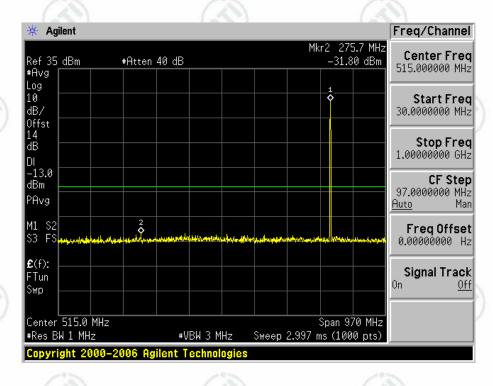






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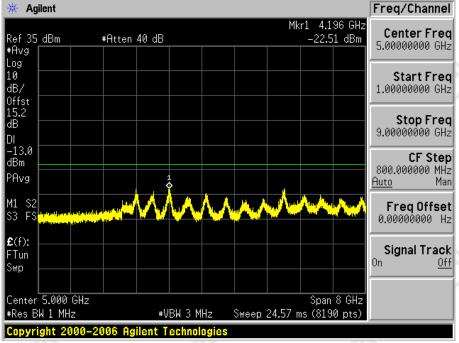




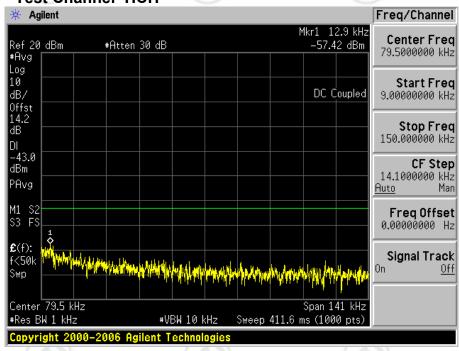




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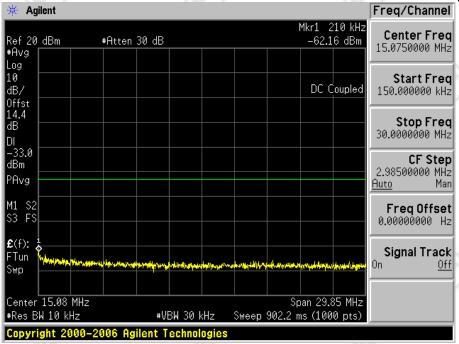
1.1.2.3 Test Channel=HCH

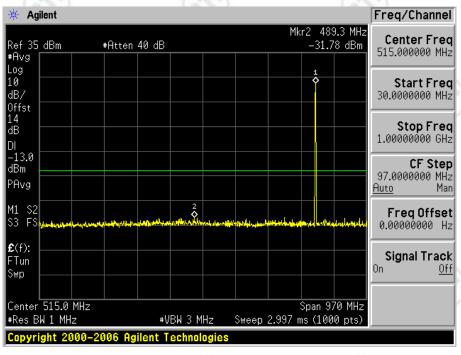






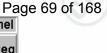
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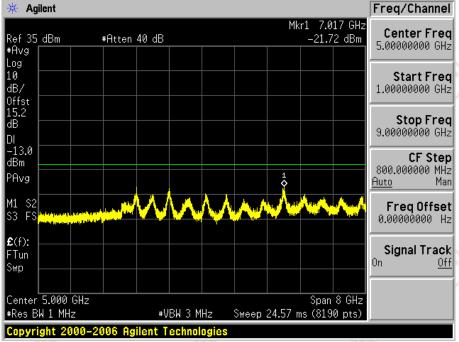




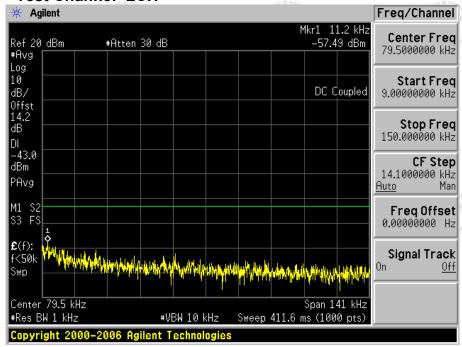








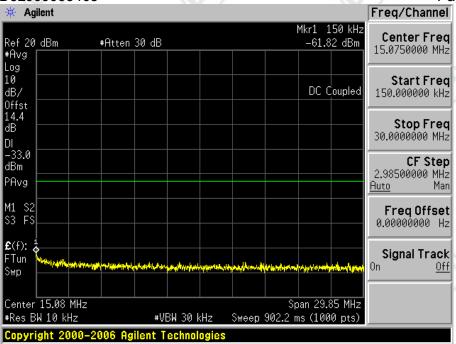
- Test Band=GSM1900
- 1.2.1 Test Mode=GSM/TM2
- 1.2.1.1 Test Channel=LCH

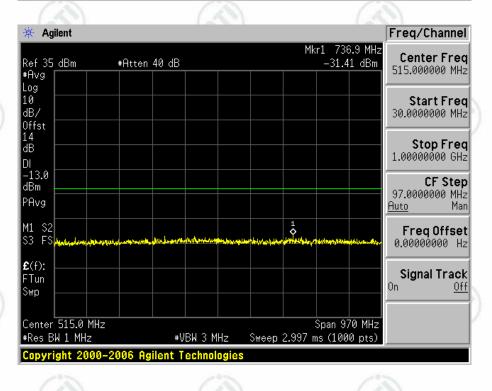






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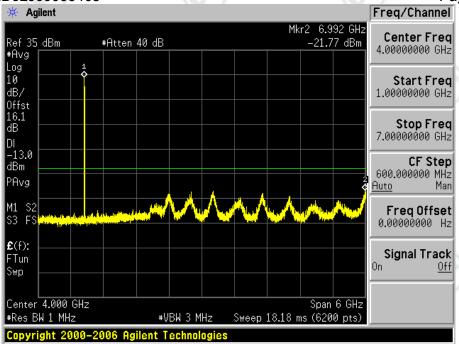


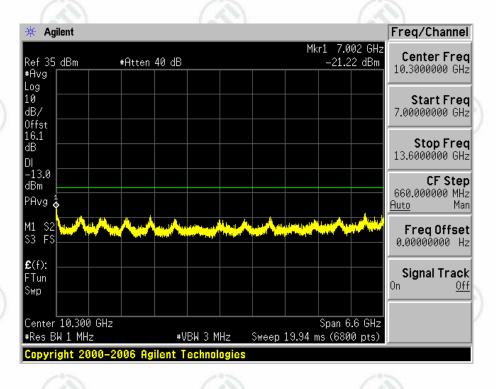






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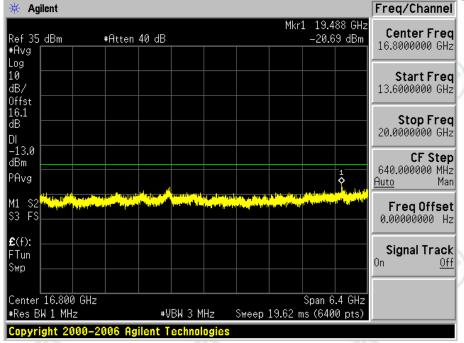




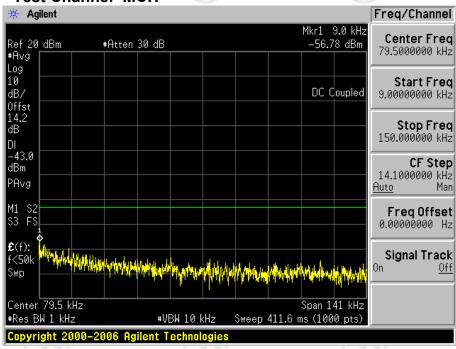




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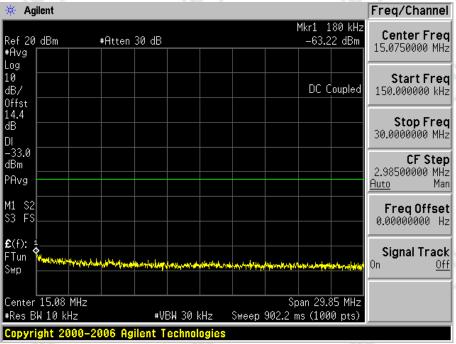
1.2.1.2 Test Channel=MCH

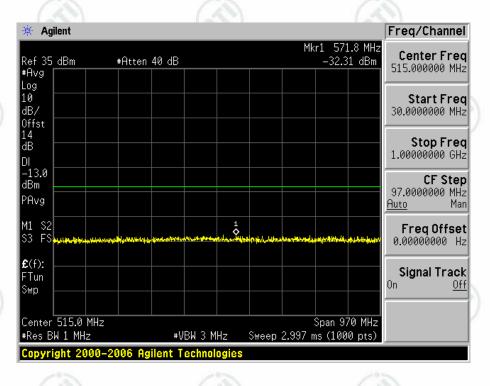


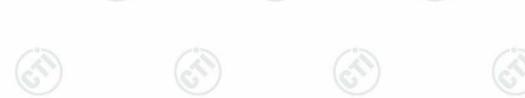




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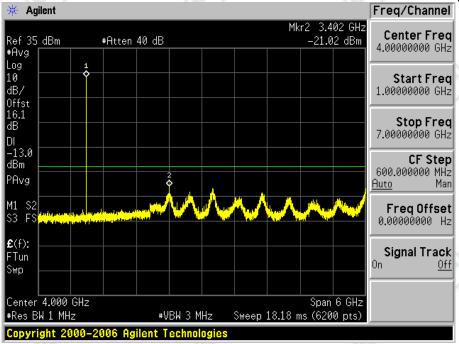


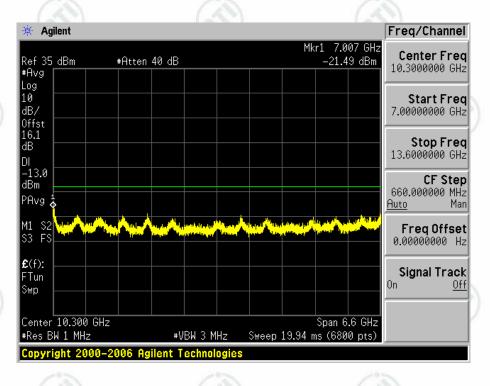






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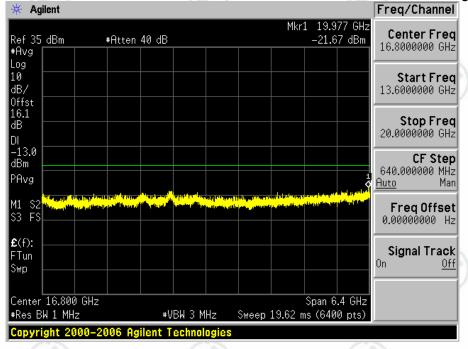




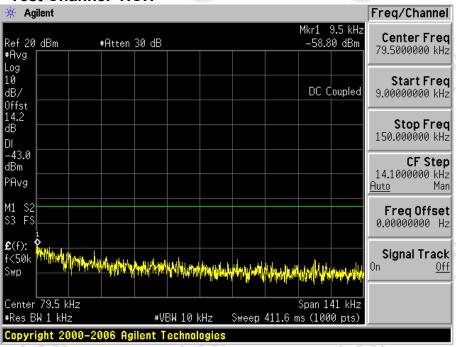




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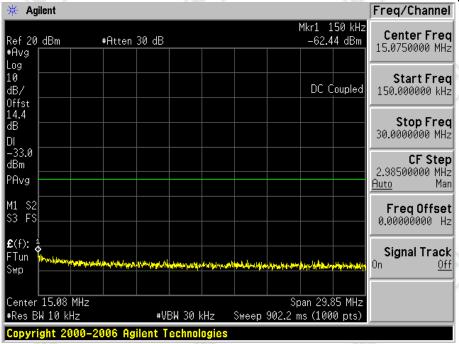
1.2.1.3 Test Channel=HCH

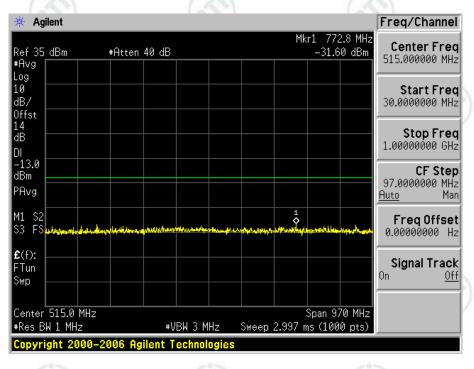






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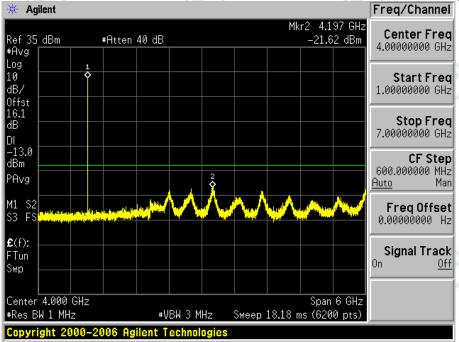


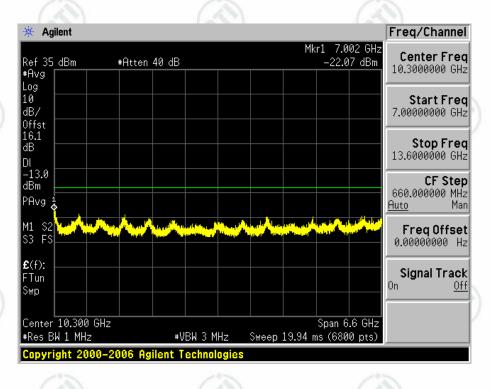






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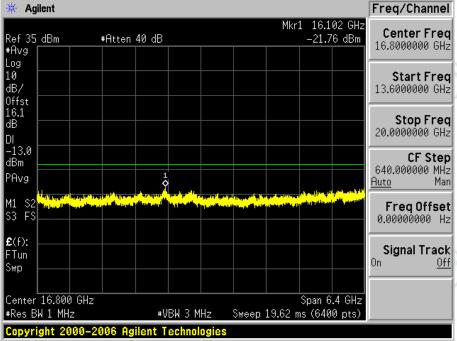






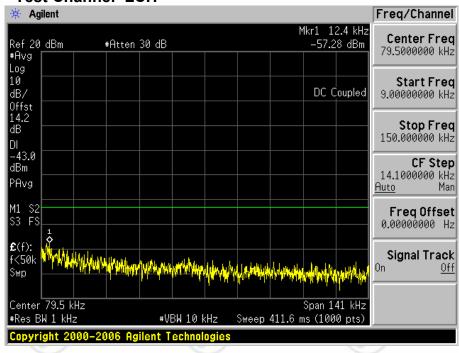


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1.2.2 Test Mode=GSM/TM3

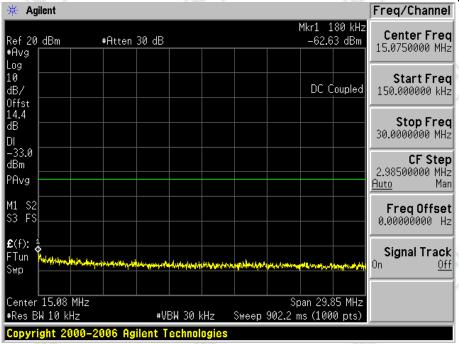
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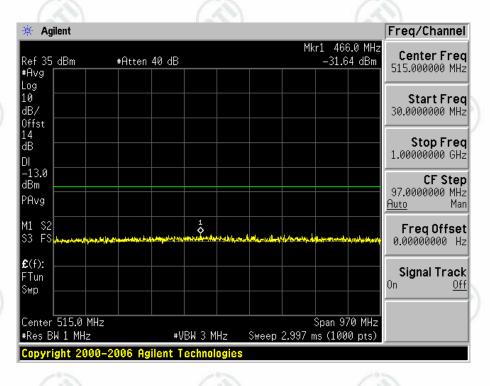






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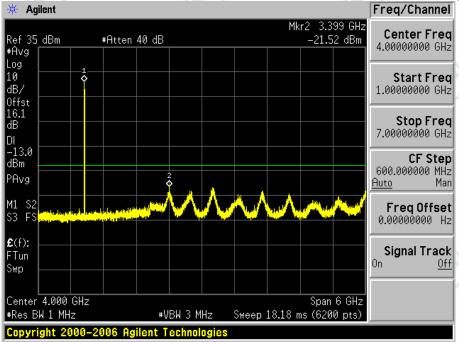


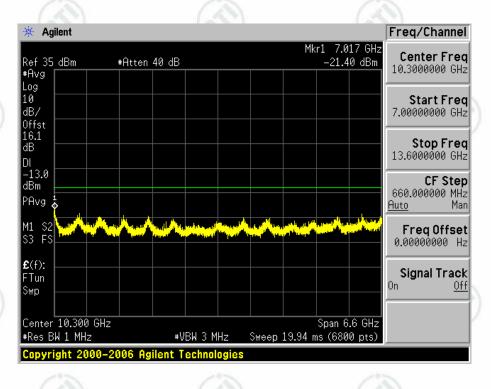






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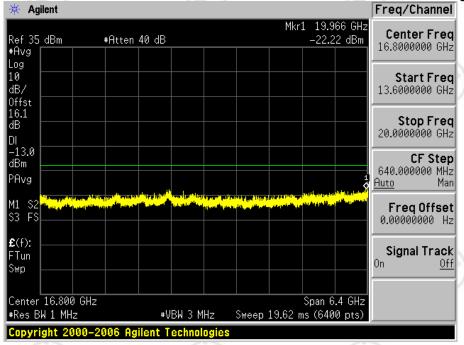




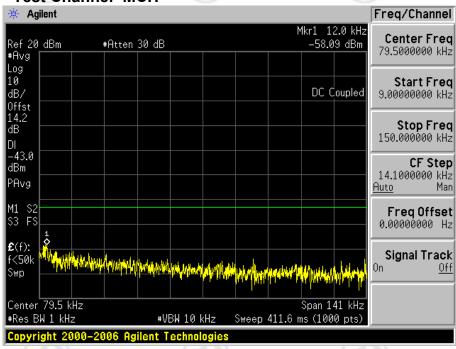




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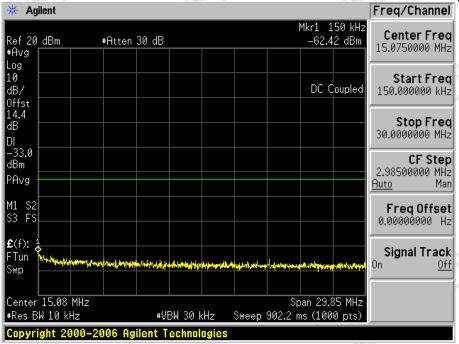
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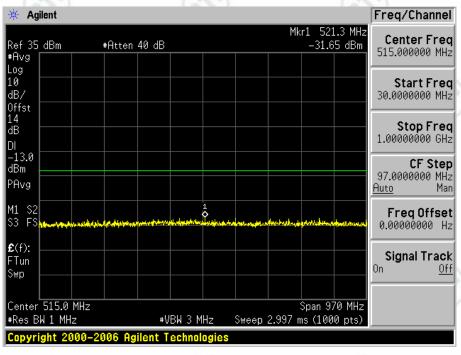






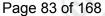
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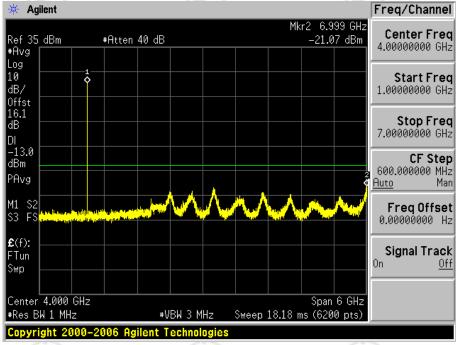


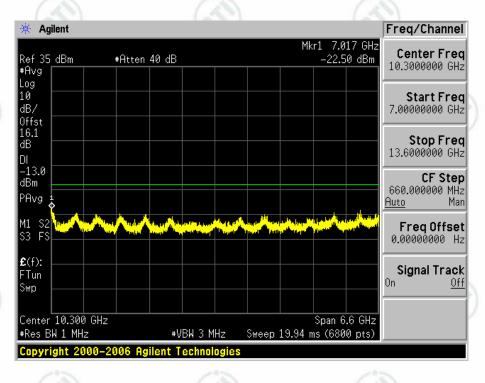


















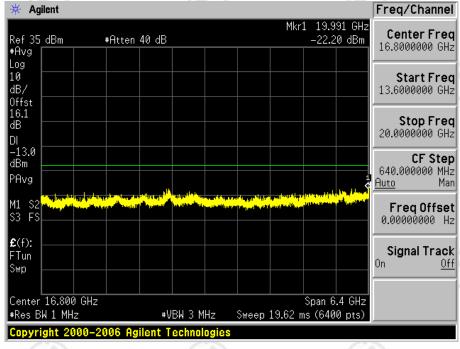




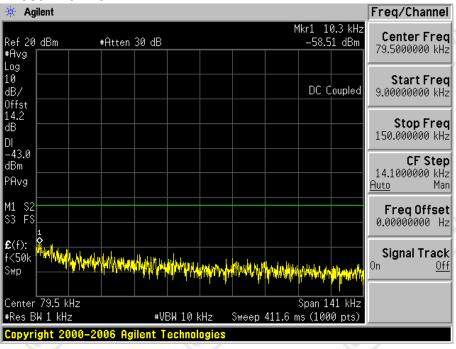




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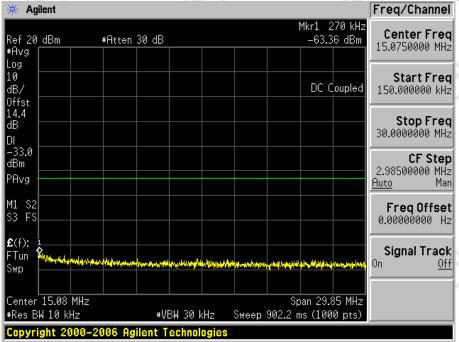
1.2.2.3 Test Channel=HCH

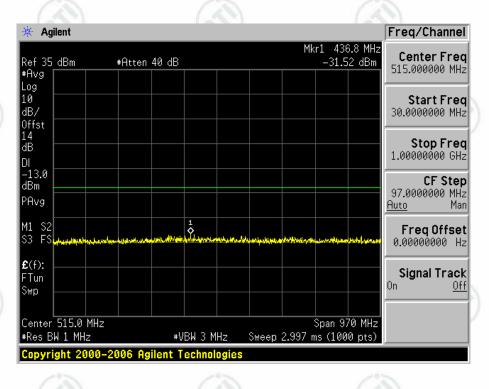






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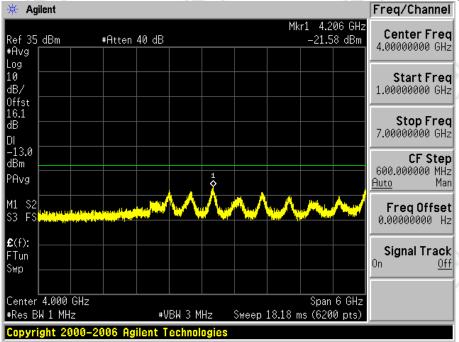


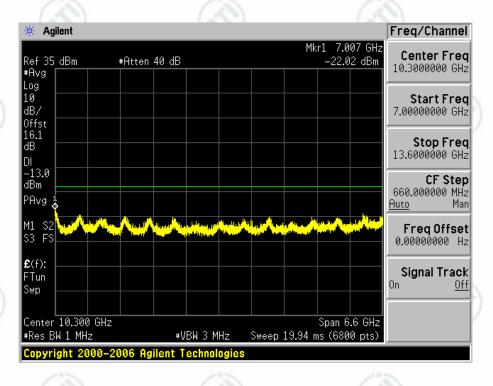






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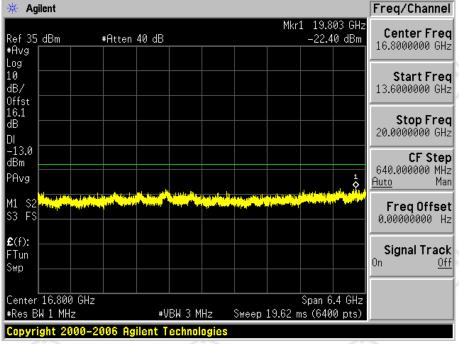




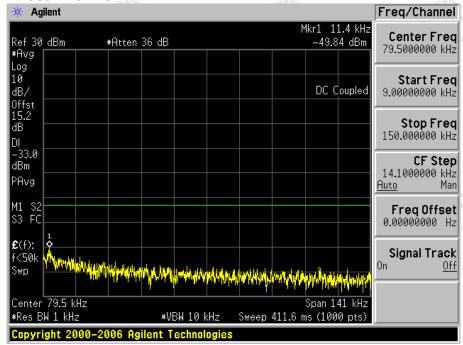




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- For WCDMA
- 2.1 Test Band=WCDMA850
- 2.1.1 Test Mode=UMTS/TM1
- 2.1.1.1 Test Channel=LCH



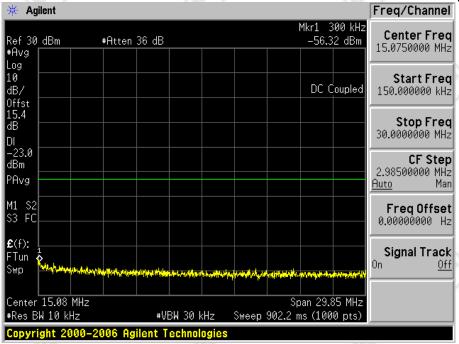


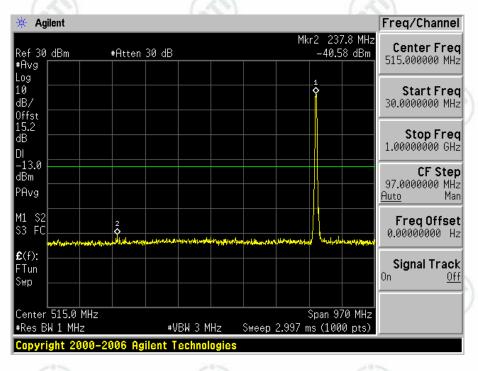
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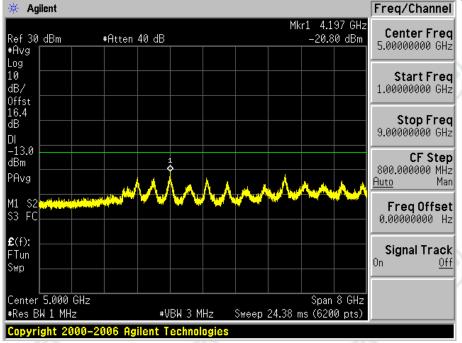




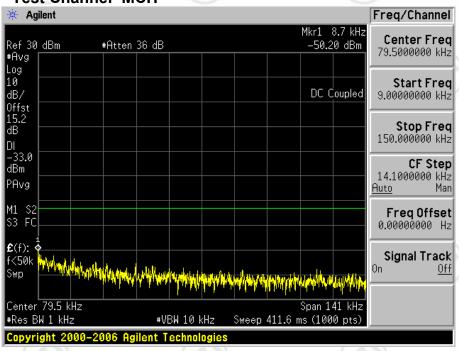




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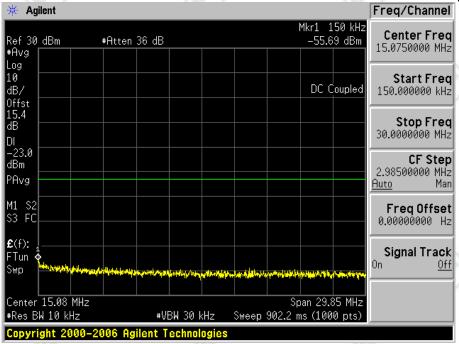
2.1.1.2 Test Channel=MCH

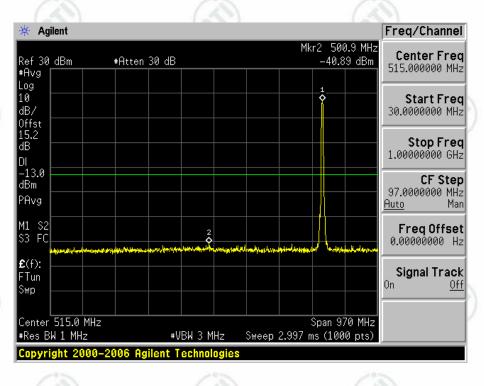






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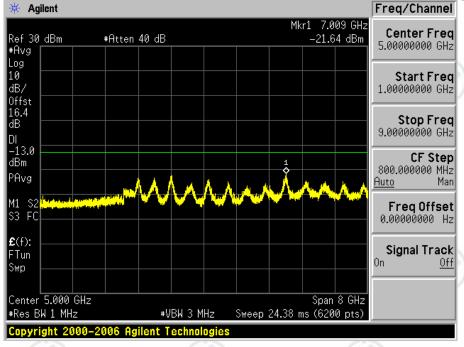




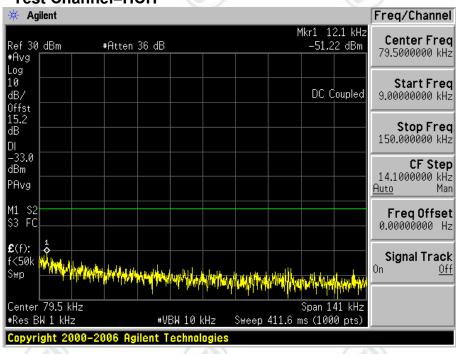




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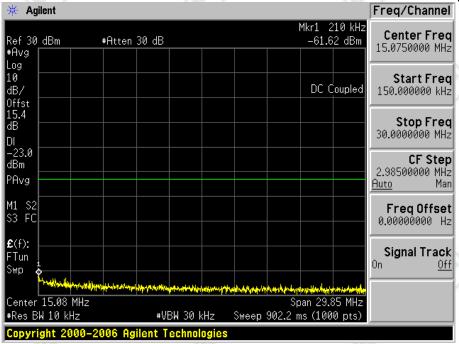
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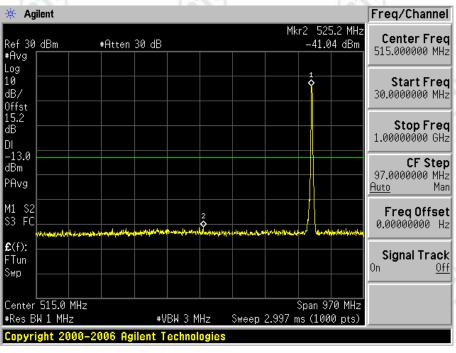






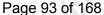
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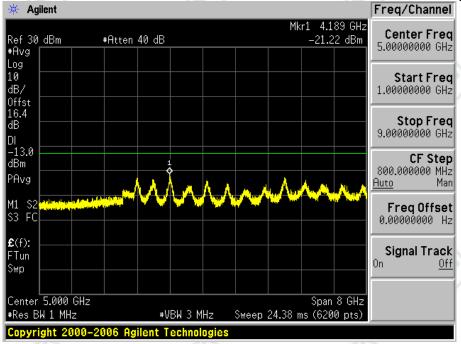






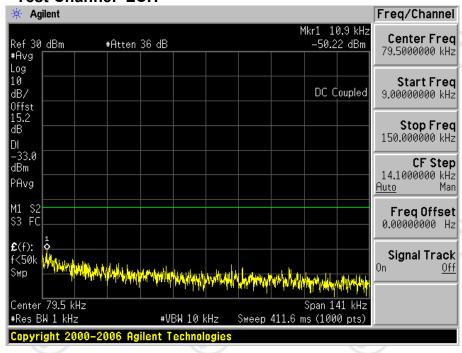






2.1.2 Test Mode=UMTS/TM2

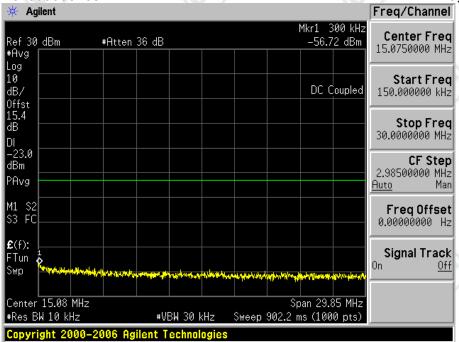
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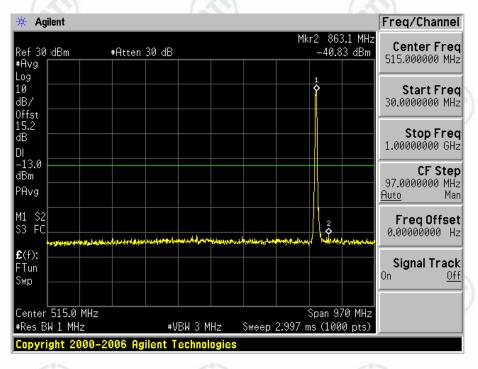






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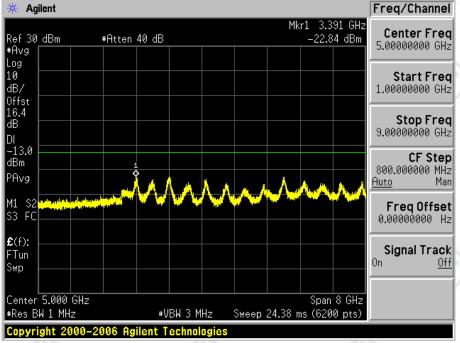




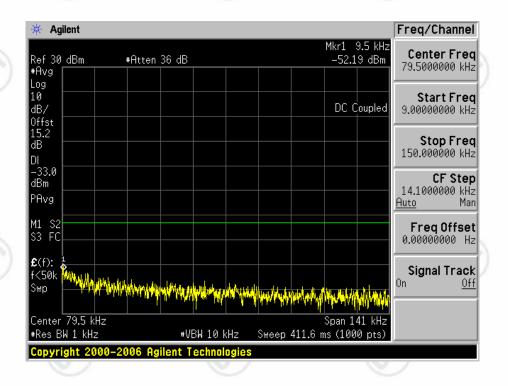




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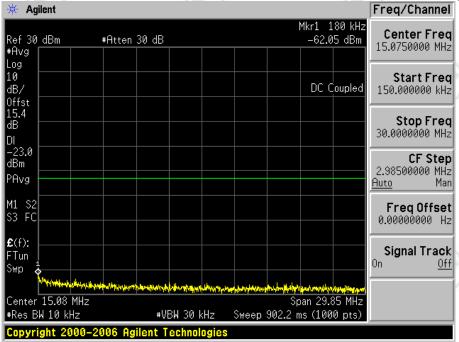
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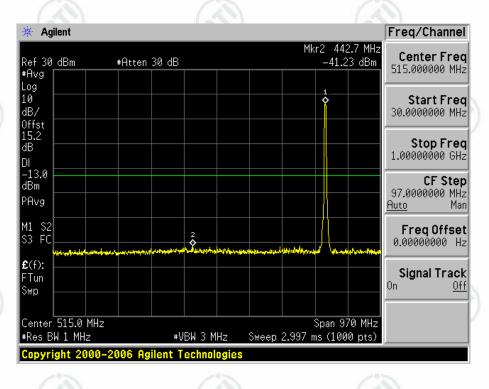






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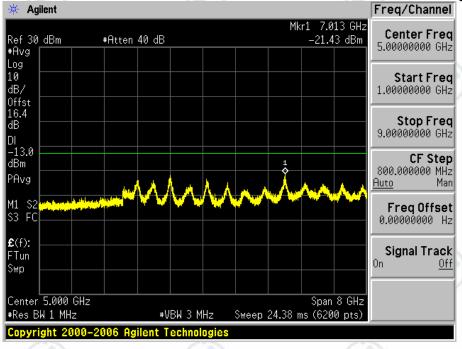




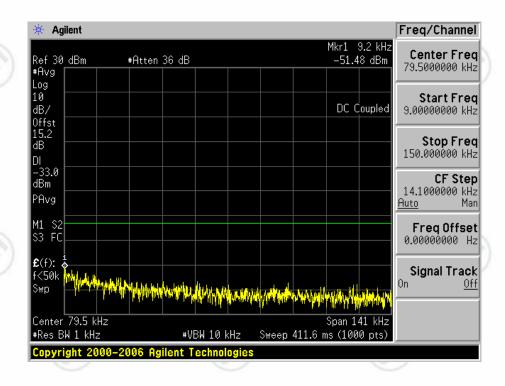




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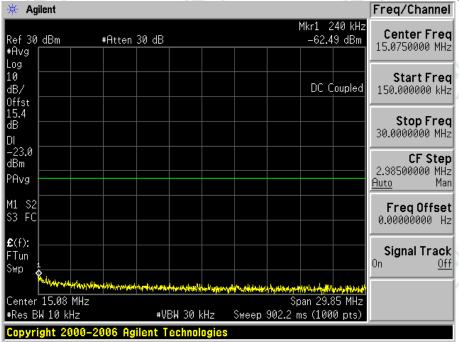
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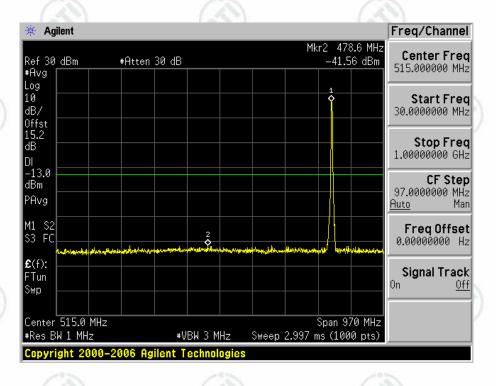






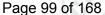
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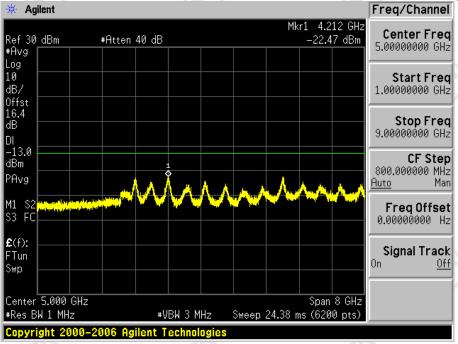






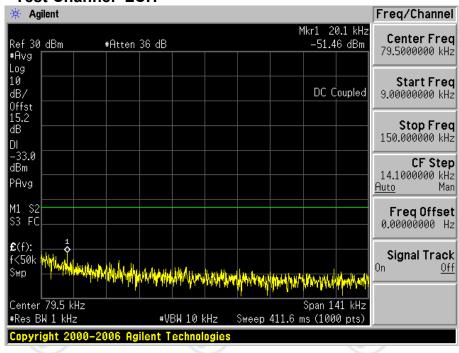






2.1.3 Test Mode=UMTS/TM3

2.1.3.1 Test Channel=LCH



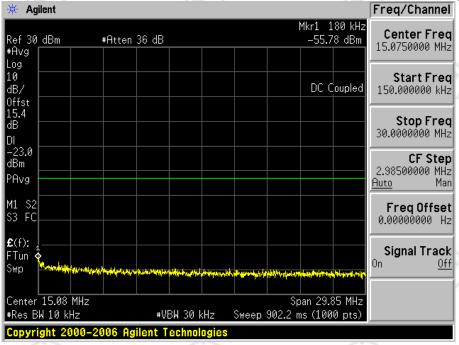


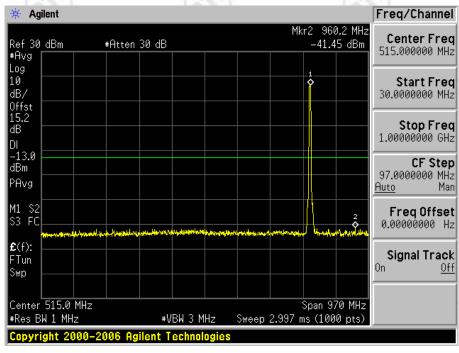


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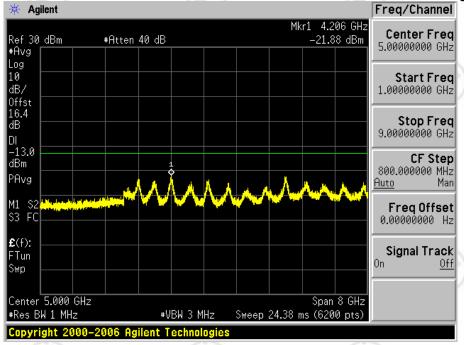




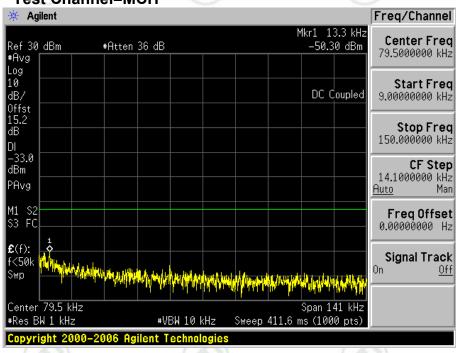




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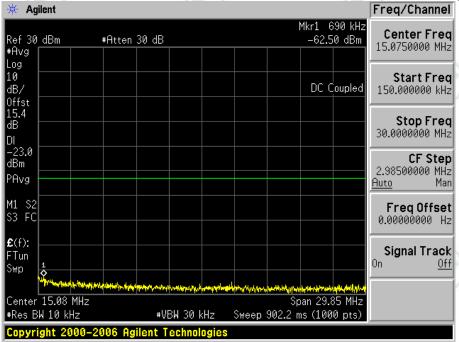
2.1.3.2 Test Channel=MCH

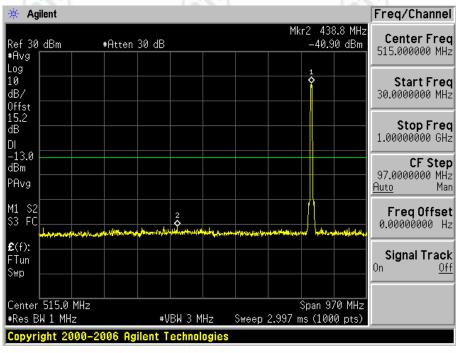






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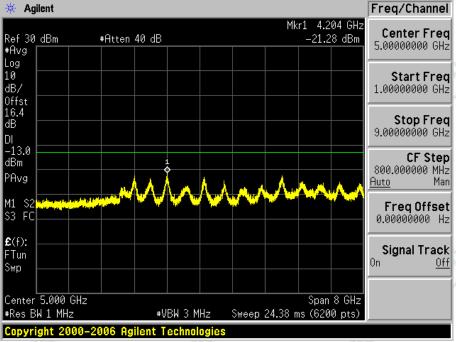




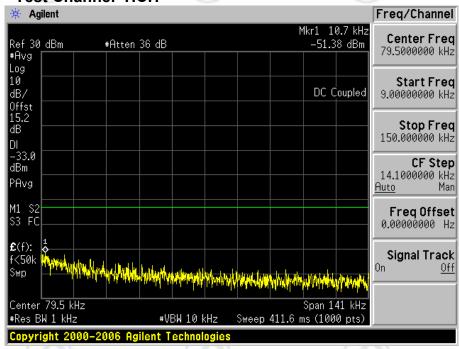




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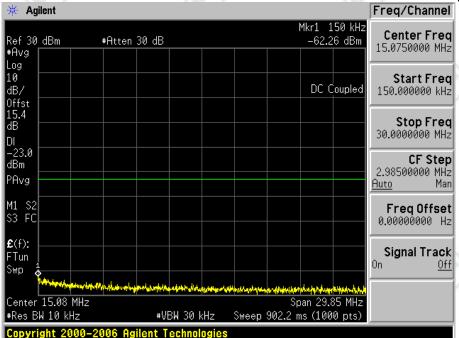


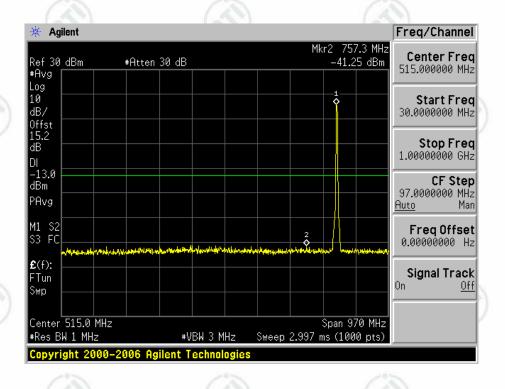
2.1.3.3 Test Channel=HCH







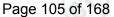


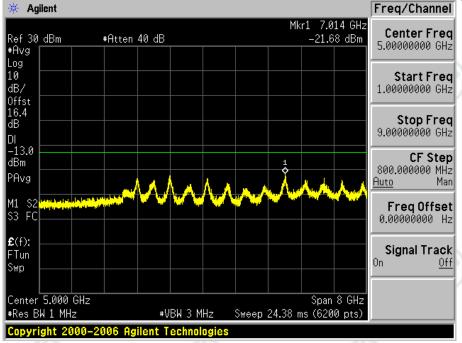




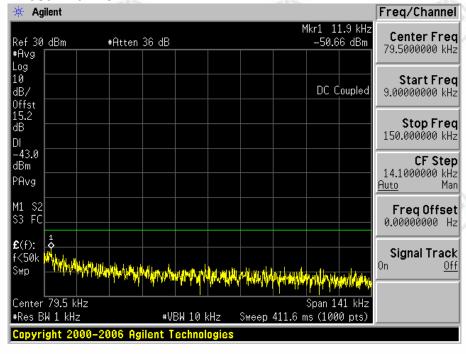
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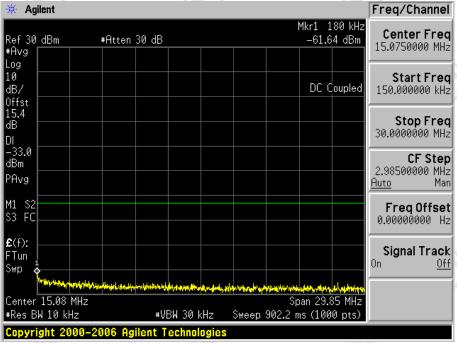
- 2.2 Test Band=WCDMA1900
- 2.2.1 Test Mode=UMTS/TM1
- 2.2.1.1 Test Channel=LCH

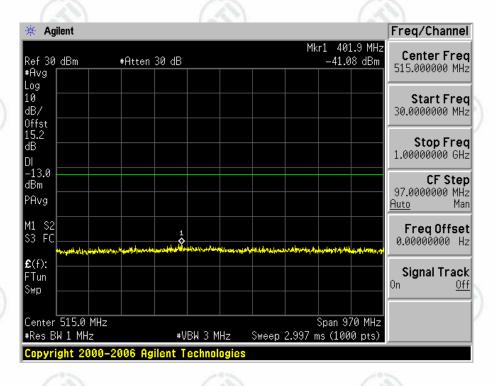






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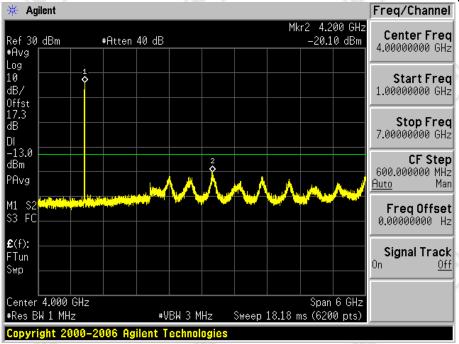


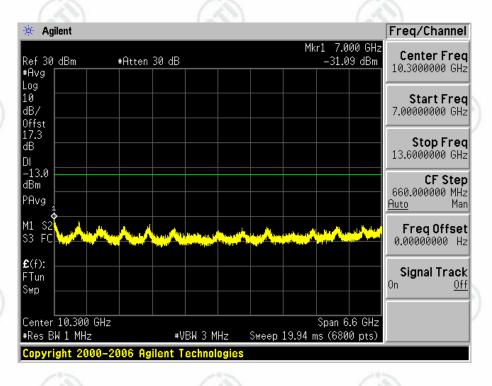






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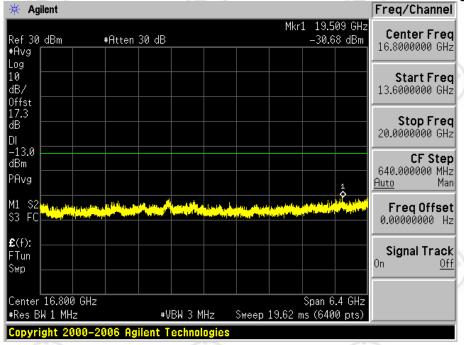




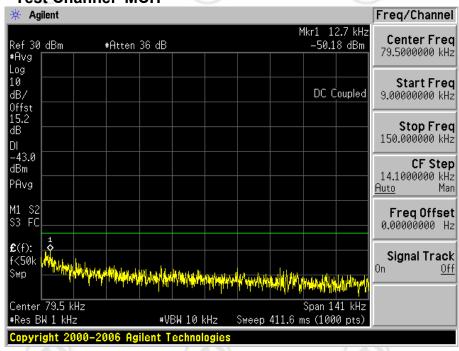




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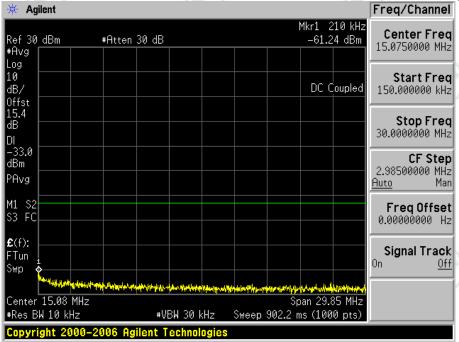
2.2.1.2 Test Channel=MCH

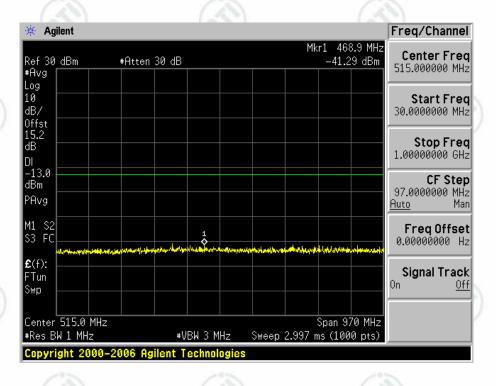






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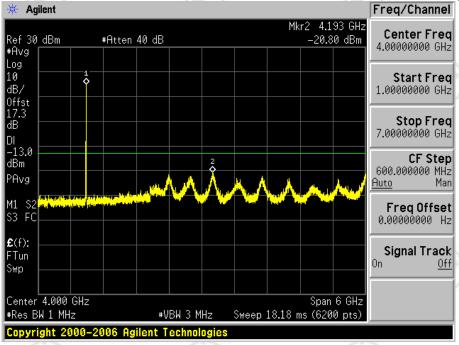


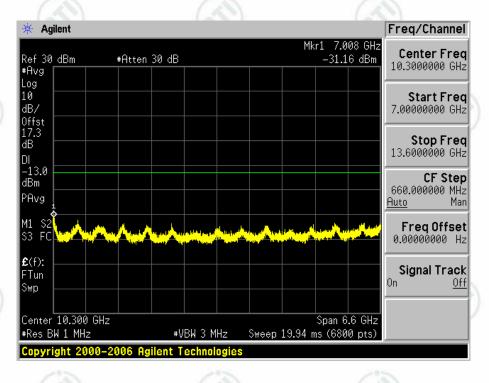






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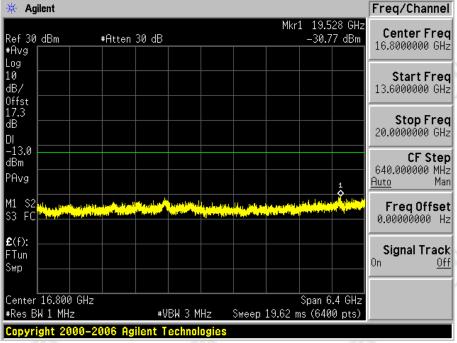




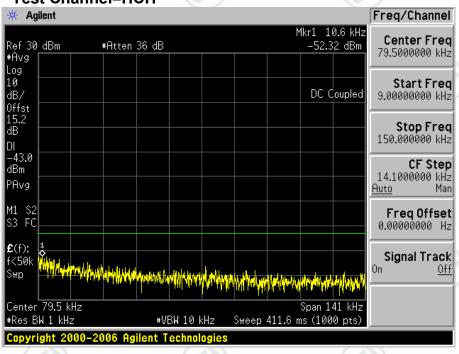




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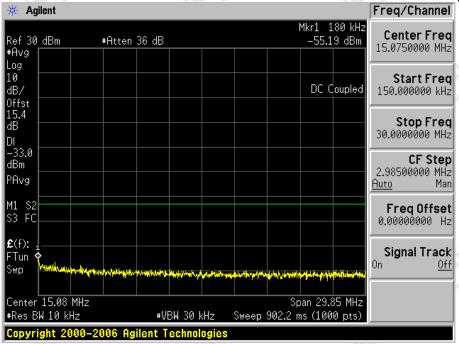
2.2.1.3 Test Channel=HCH

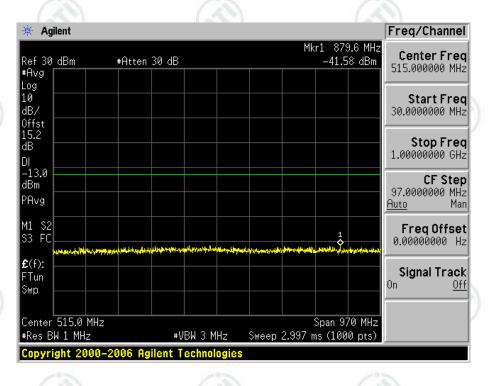






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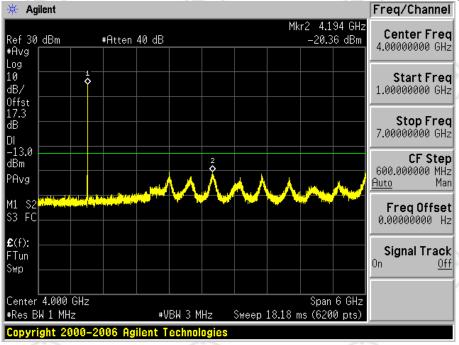


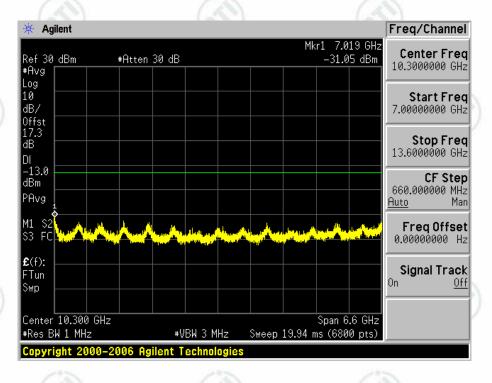






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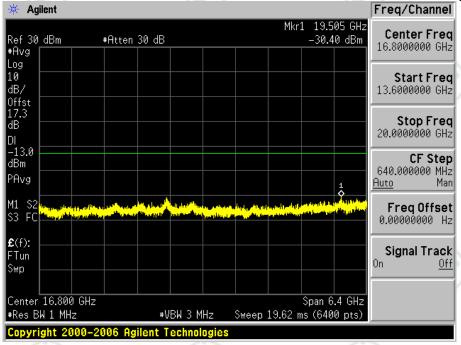




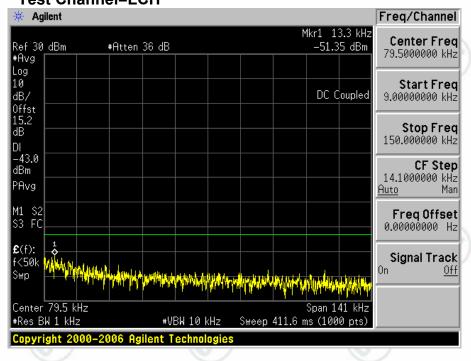




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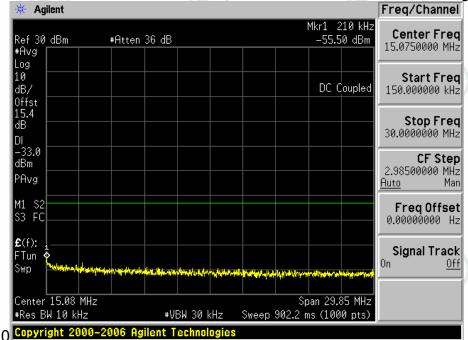
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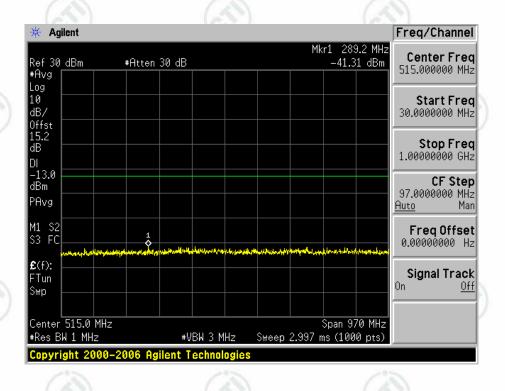






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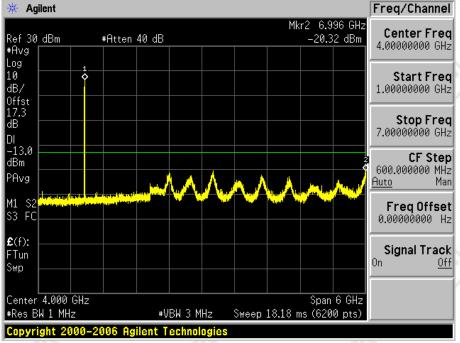


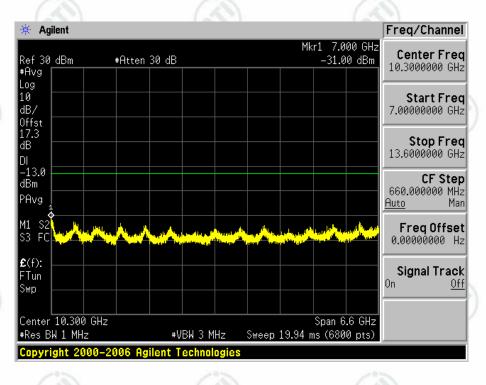
















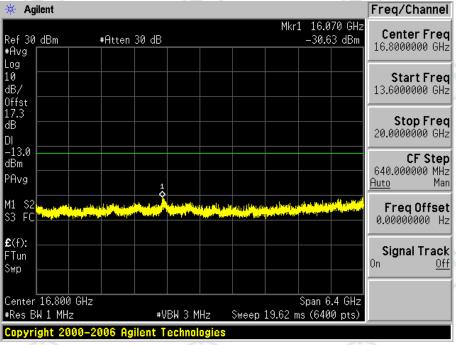




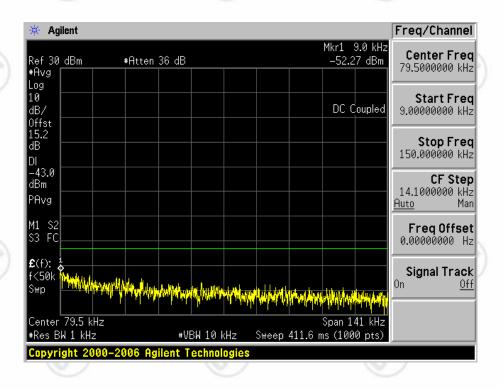




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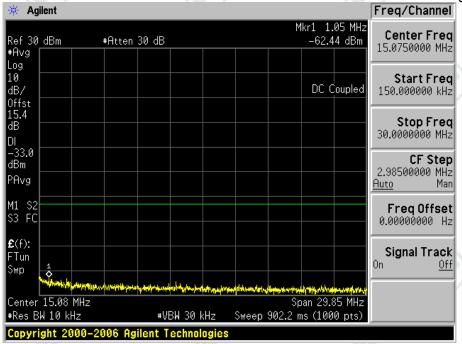
2.2.2.2 Test Channel=MCH

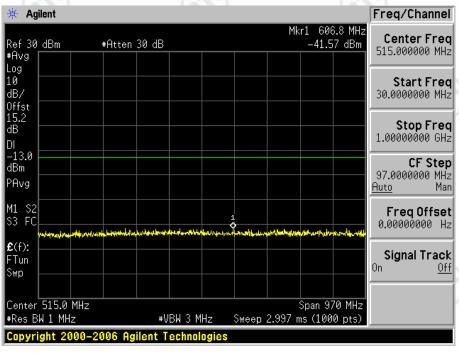






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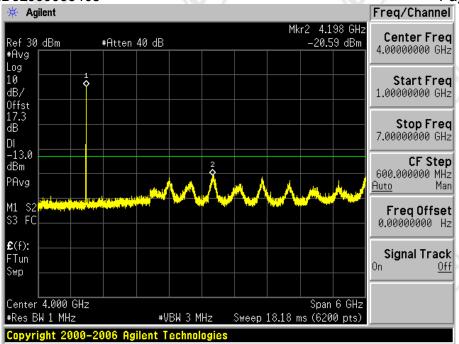


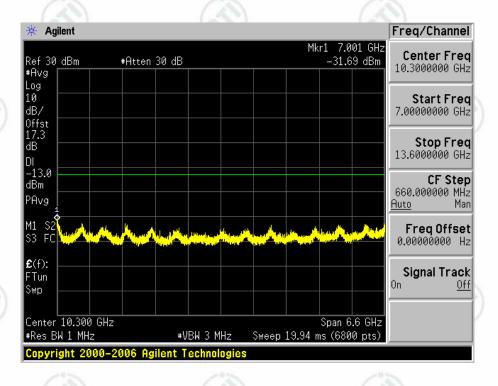






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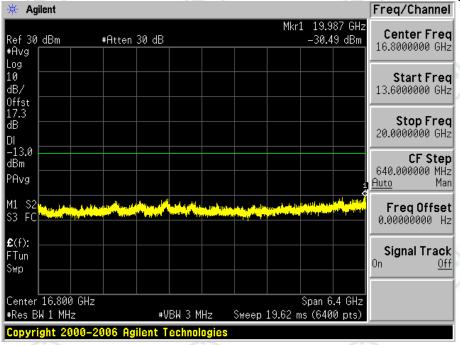




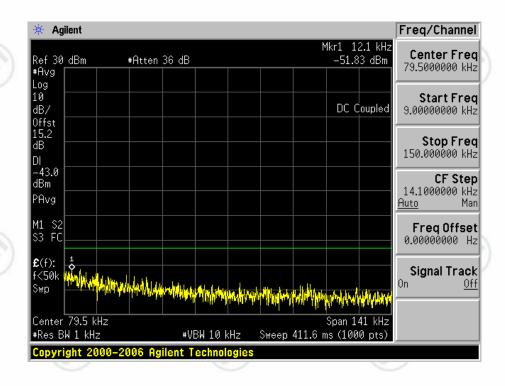




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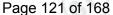


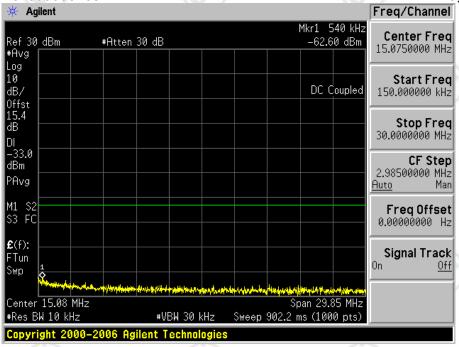
2.2.2.3 Test Channel=HCH

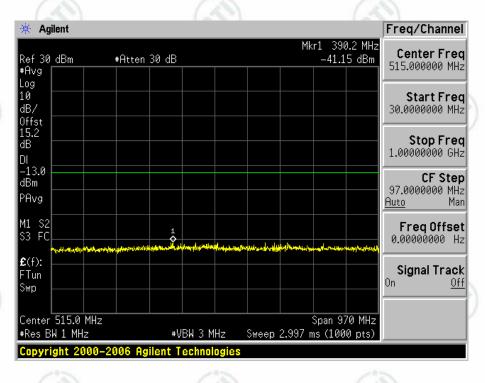








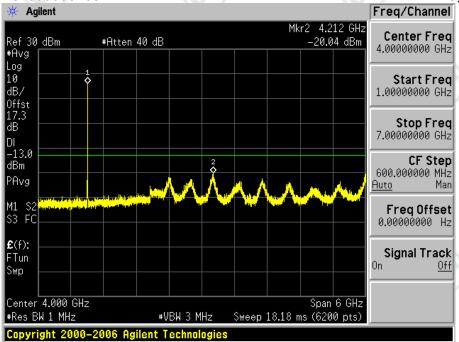


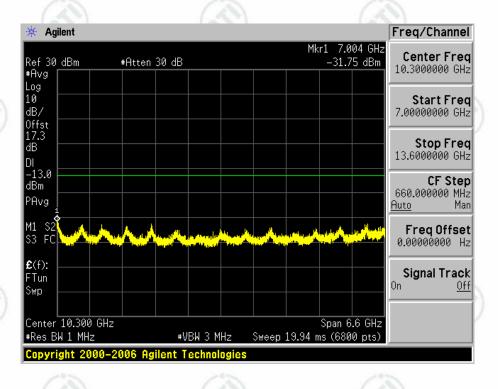






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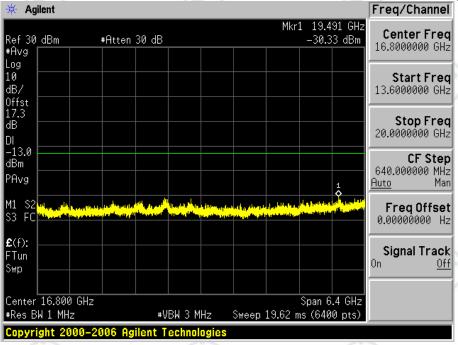






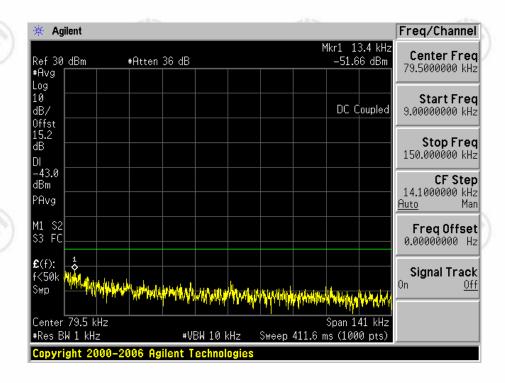


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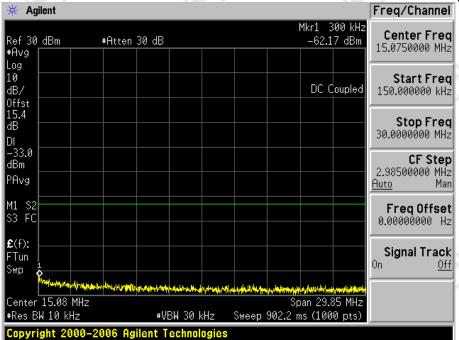
2.2.3 Test Mode=UMTS/TM3

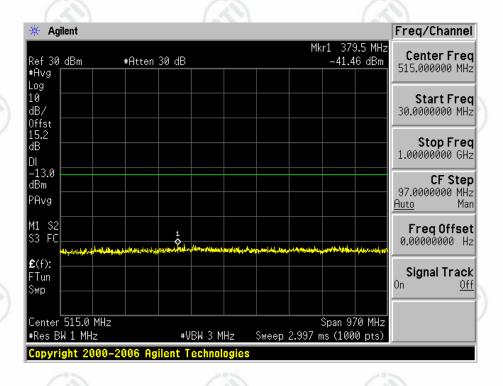
2.2.3.1 Test Channel=LCH





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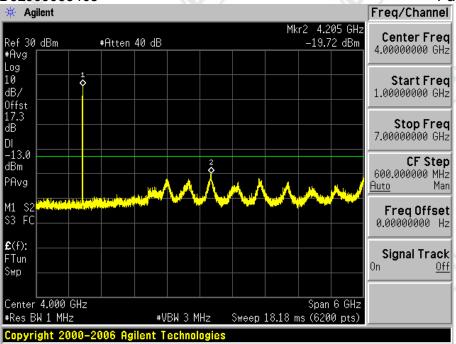


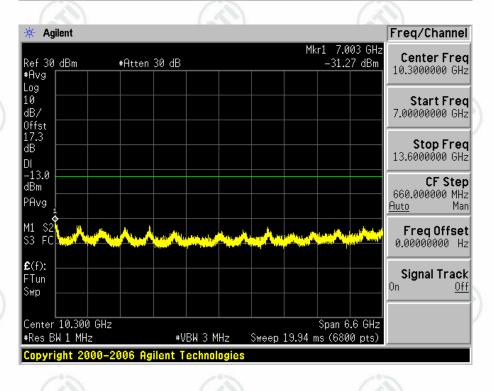






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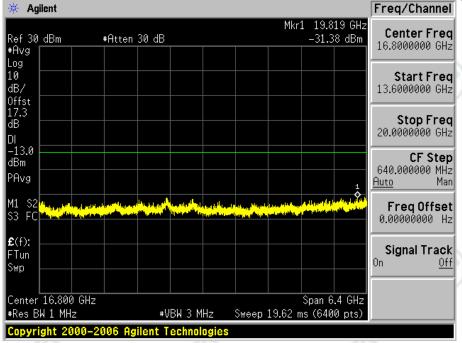




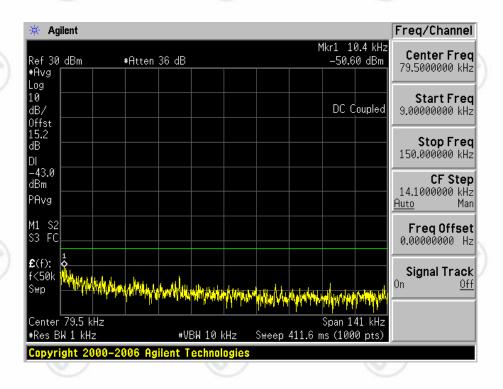




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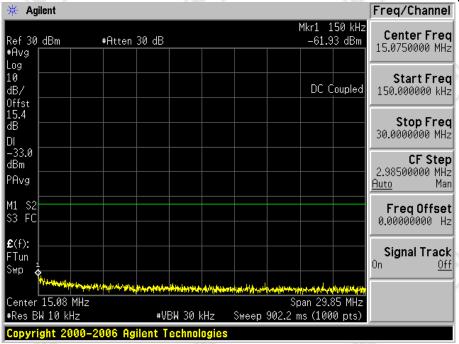
2.2.3.2 Test Channel=MCH

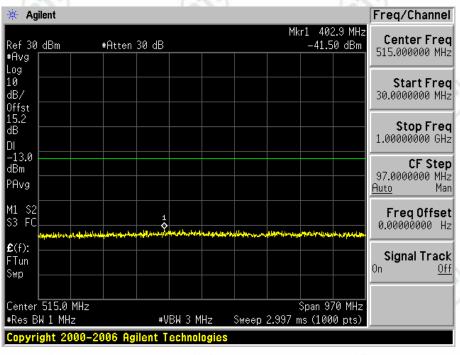






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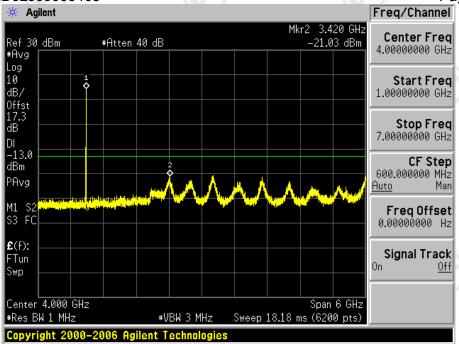


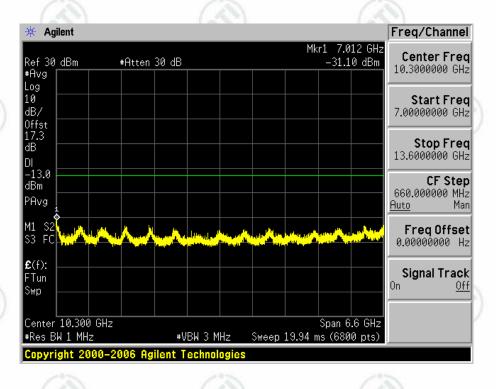






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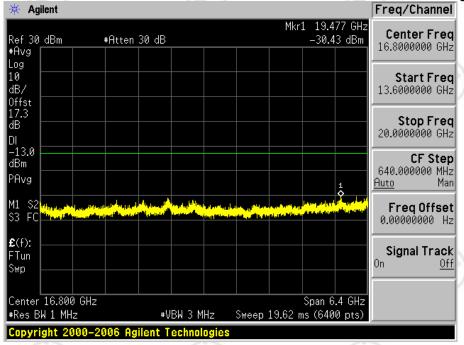




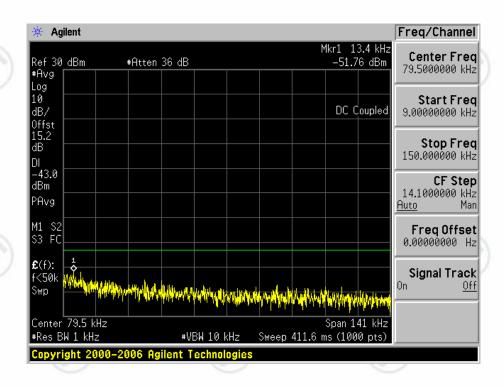




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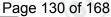


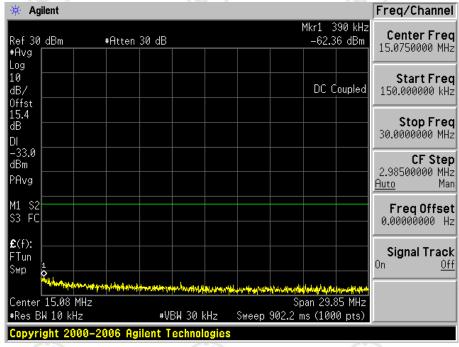
2.2.3.3 Test Channel=HCH

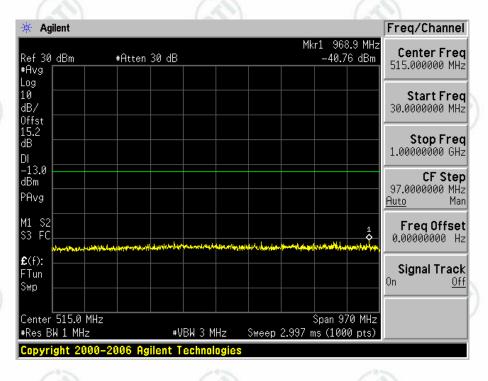








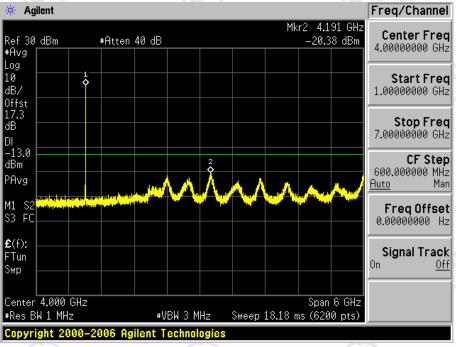


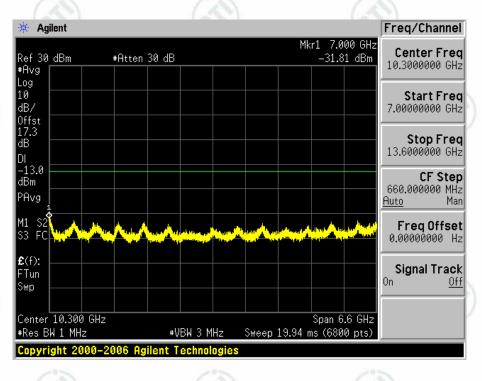






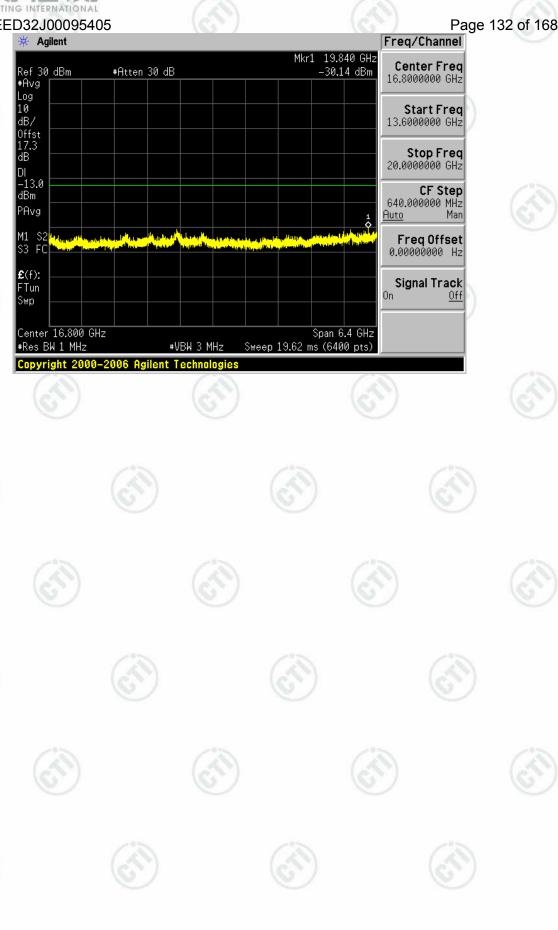
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Appendix F): Frequency Stability

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Test Requirement:	Part 2.1055	
Test Method:	TIA-603-E-2016 Clause 2.2.2	(*)
Test Setup:	Refer to section 5 for details	·) (¿5°)
Measurement Procedure:	Station Simulator. The Base Station of maximum power setting. The tests we channel and high channel). The EUT the DC leads and RF output cable made for that purpose. After Operate 15 minutes before proceeding. The +55°C at intervals of not more than 100	It to a calibrated coaxial cable and a Base Simulator was set to force the EUT to its were performed at three frequencies (low was place in the temperature chamber, exited the chamber though an opening the equipment in standby conditions for temperature was varied from -30°C to 0°C The frequency stability was read from large was reduced from 3.7V to 3.4V, the was record.
Instruments Used:	Refer to section 7 for details	
Limit:	Operation Band	Frequency stability Limit(ppm)
	GPRS/EDGE/WCDMA 850	±2.5ppm
	GPRS/EDGE/WCDMA 1900	
Test Results:	Pass	

Test Data:

Frequency Error vs. Voltage:

(VL is 3.4V, VN is 3.5V, VH is 3.7V)

(12 10 0.11,	111100.0	, v , v i i i o o .	• /				A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	5.42	0.006576	±2.5	PASS
		LCH	TN	VN	7.88	0.009561	±2.5	PASS
(*)		(5)	TN	VH	9.69	0.011757	±2.5	PASS
			TN	VL	4.00	0.004781	±2.5	PASS
GSM850	TM2	MCH	TN	VN	6.20	0.007411	±2.5	PASS
1	0		TN	VH	4.00	0.004781	±2.5	PASS
(6)	9		TN	VL	7.17	0.008447	±2.5	PASS
		HCH	TN	VN	5.49	0.006468	±2.5	PASS
			TN	VH	3.42	0.004029	±2.5	PASS





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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
(6)	7		TN	VL	-2.20	-0.002669	±2.5	PASS
		LCH	TN	VN	1.07	0.001298	±2.5	PASS
			TN	VH	-1.26	-0.001529	±2.5	PASS
10			TN	VL	-5.55	-0.006634	±2.5	PASS
GSM850	TM3	мсн	TN	VN	-4.91	-0.005869	±2.5	PASS
			TN	VH	-3.87	-0.004626	±2.5	PASS
			TN	VL	-3.97	-0.004677	±2.5	PASS
63		НСН	TN	VN	-1.42	-0.001673	±2.5	PASS
6	/		TN	VH	-5.84	-0.006880	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Mandiat
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	12.01	0.006491	±2.5	PASS
		LCH	TN	VN	10.40	0.005621	±2.5	PASS
-			TN	VH	8.33	0.004502	±2.5	PASS
(65	(S)		TN	VL	3.55	0.001888	±2.5	PASS
GSM1900	TM2	MCH	TN	VN	-5.88	-0.003128	±2.5	PASS
			TN	VH	-0.26	-0.000138	±2.5	PASS
		(3)	TN	VL	-2.07	-0.001084	±2.5	PASS
(1)		НСН	TN	VN	-3.49	-0.001827	±2.5	PASS
			TN	VH	6.78	0.003550	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	8.07	0.004362	±2.5	PASS
		LCH	TN	VN	4.23	0.002286	±2.5	PASS
			TN	VH	-1.87	-0.001011	±2.5	PASS
		6	TN	VL	7.26	0.003862	±2.5	PASS
GSM1900	TM3	MCH	TN	VN	1.03	0.000548	±2.5	PASS
			TN	VH	-1.42	-0.000755	±2.5	PASS
(3			TN	VL	-3.97	-0.002079	±2.5	PASS
6		HCH	TN	VN	-2.32	-0.001215	±2.5	PASS
			TN	VH	6.42	0.003362	±2.5	PASS













Frequency Error vs. Temperature:



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	4.20	0.005096	±2.5	PASS
			VN	-20	6.52	0.007911	±2.5	PASS
\mathcal{V}		6	VN	-10	6.52	0.007911	±2.5	PASS
			VN	0	1.81	0.002196	±2.5	PASS
GSM850	TM2	LCH	VN	10	7.43	0.009015	±2.5	PASS
6			VN	20	4.91	0.005957	±2.5	PASS
0)		VN	30	7.36	0.008930	±2.5	PASS
			VN	40	4.26	0.005169	±2.5	PASS
		545	VN	50	8.07	0.009791	±2.5	PASS
			VN	-30	7.81	0.009335	±2.5	PASS
/			VN	-20	2.97	0.003550	±2.5	PASS
			VN	-10	5.94	0.007100	±2.5	PASS
-			VN	0	3.94	0.004710	±2.5	PASS
GSM850	TM2	мсн	VN	10	7.94	0.009491	±2.5	PASS
			VN	20	4.65	0.005558	±2.5	PASS
			VN	30	5.42	0.006479	±2.5	PASS
			VN	40	6.01	0.007184	±2.5	PASS
(*)			VN	50	6.84	0.008176	±2.5	PASS
			VN	-30	7.23	0.008518	±2.5	PASS
			VN	-20	4.39	0.005172	±2.5	PASS
1			VN	-10	0.97	0.001143	±2.5	PASS
(6)	9		VN	0	3.75	0.004418	±2.5	PASS
GSM850	TM2	НСН	VN	10	5.88	0.006927	±2.5	PASS
			VN	20	6.33	0.007458	±2.5	PASS
1			VN	30	6.46	0.007611	±2.5	PASS
		(C.)	VN	40	7.55	0.008895	±2.5	PASS
			VN	50	8.14	0.009590	±2.5	PASS





















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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	-3.65	-0.004429	±2.5	PASS
			VN	-20	-3.20	-0.003883	±2.5	PASS
16			VN	-10	-1.84	-0.002232	±2.5	PASS
		6,	VN	0	0.45	0.000546	±2.5	PASS
GSM850	TM3	LCH	VN	10	3.55	0.004307	±2.5	PASS
			VN	20	-4.00	-0.004853	±2.5	PASS
63			VN	30	-2.39	-0.002900	±2.5	PASS
6			VN	40	-0.97	-0.001177	±2.5	PASS
			VN	50	-0.13	-0.000158	±2.5	PASS
		245	VN	-30	-2.42	-0.002893	±2.5	PASS
(1)			VN	-20	2.03	0.002426	±2.5	PASS
2/			VN	-10	-0.42	-0.000502	±2.5	PASS
			VN	0	-4.07	-0.004865	±2.5	PASS
GSM850	TM3	МСН	VN	10	-0.26	-0.000311	±2.5	PASS
(65	(a)		VN	20	-4.10	-0.004901	±2.5	PASS
			VN	30	-1.42	-0.001697	±2.5	PASS
			VN	40	-0.65	-0.000777	±2.5	PASS
			VN	50	-5.91	-0.007064	±2.5	PASS
(P)		(E)	VN	-30	-5.42	-0.006385	±2.5	PASS
			VN	-20	0.32	0.000377	±2.5	PASS
			VN	-10	-7.52	-0.008860	±2.5	PASS
			VN	0	-1.97	-0.002321	±2.5	PASS
GSM850	TM3	HCH	VN	10	1.29	0.001520	±2.5	PASS
			VN	20	-2.55	-0.003004	±2.5	PASS
			VN	30	-1.78	-0.002097	±2.5	PASS
A.			VN	40	-1.00	-0.001178	±2.5	PASS
		(C)	VN	50	-2.32	-0.002733	±2.5	PASS





















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Test Band Mode Channel Volt. Test Test Band Mode Channel Volt. Temp Freq.Error (Hz) Freq.vs.rated (ppm) (ppm) Verdict									
Carrell							•		Verdict
GSM1900 TM2 LCH				VN	-30	6.46	0.003492	±2.5	PASS
GSM1900 TM2 LCH				VN	-20	-2.20	-0.001189	±2.5	PASS
GSM1900 TM2 LCH	30			VN	-10	4.91	0.002654	±2.5	PASS
VN 20 4.71 0.002546 ±2.5 PASS VN 30 -3.87 -0.002092 ±2.5 PASS VN 40 3.87 0.002092 ±2.5 PASS VN 50 0.97 0.000524 ±2.5 PASS VN -30 1.23 0.000654 ±2.5 PASS VN -20 -6.20 -0.003298 ±2.5 PASS VN -10 -4.20 -0.00234 ±2.5 PASS VN 0 2.97 0.001580 ±2.5 PASS VN 20 6.07 0.00329 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5			6	VN	0	1.81	0.000978	±2.5	PASS
VN 30 -3.87 -0.002092 ±2.5 PASS VN 40 3.87 0.002092 ±2.5 PASS VN 50 0.97 0.000524 ±2.5 PASS VN -30 1.23 0.000654 ±2.5 PASS VN -20 -6.20 -0.003298 ±2.5 PASS VN -10 -4.20 -0.002234 ±2.5 PASS VN 0 2.97 0.001580 ±2.5 PASS VN 20 6.07 0.00329 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS VN 40 -4.78 -4.78 -4.002503 ±2.5 PASS VN 40 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.	GSM1900	TM2	LCH	VN	10	6.84	0.003697	±2.5	PASS
VN				VN	20	4.71	0.002546	±2.5	PASS
VN 50 0.97 0.000524 ±2.5 PASS VN -30 1.23 0.000654 ±2.5 PASS VN -20 -6.20 -0.003298 ±2.5 PASS VN -10 -4.20 -0.002234 ±2.5 PASS VN 0 2.97 0.001580 ±2.5 PASS VN 20 6.07 0.003229 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS VN 40 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -4.78 -	6	O.		VN	30	-3.87	-0.002092	±2.5	PASS
VN -30	16	ارق		VN	40	3.87	0.002092	±2.5	PASS
GSM1900 TM2 MCH VN -20 -6.20 -0.003298 ±2.5 PASS VN -10 -4.20 -0.00234 ±2.5 PASS VN 0 2.97 0.001580 ±2.5 PASS VN 20 6.07 0.00329 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 -7.23 0.003786 ±2.5 PASS VN 0 0 0.45 0.000236 ±2.5 PASS VN 0 0 0.478 0.0002503 ±2.5 PASS VN 0 0 0.478 0.0002503 ±2.5 PASS				VN	50	0.97	0.000524	±2.5	PASS
GSM1900 TM2 MCH VN 10 -4.20 -0.002234 ±2.5 PASS VN 0 2.97 0.001580 ±2.5 PASS VN 10 -2.32 -0.001234 ±2.5 PASS VN 20 6.07 0.003229 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS			215	VN	-30	1.23	0.000654	±2.5	PASS
GSM1900 TM2 MCH	(4)			VN	-20	-6.20	-0.003298	±2.5	PASS
GSM1900 TM2 MCH VN 10 -2.32 -0.001234 ±2.5 PASS VN 20 6.07 0.003229 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS	2/			VN	-10	-4.20	-0.002234	±2.5	PASS
VN 20 6.07 0.003229 ±2.5 PASS VN 30 -4.33 -0.002303 ±2.5 PASS VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS VN 40 -4.78 -0.002503				VN	0	2.97	0.001580	±2.5	PASS
VN 30	GSM1900	TM2	МСН	VN	10	-2.32	-0.001234	±2.5	PASS
VN 40 1.68 0.000894 ±2.5 PASS VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 10 0.45 0.000236 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS	(6	(\$\bar{2}\)		VN	20	6.07	0.003229	±2.5	PASS
VN 50 -2.84 -0.001511 ±2.5 PASS VN -30 -7.17 -0.003754 ±2.5 PASS VN -20 1.36 0.000712 ±2.5 PASS VN -10 -7.68 -0.004021 ±2.5 PASS VN 0 7.23 0.003786 ±2.5 PASS VN 10 0.45 0.000236 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS				VN	30	-4.33	-0.002303	±2.5	PASS
VN -30				VN	40	1.68	0.000894	±2.5	PASS
VN	30		C'S	VN	50	-2.84	-0.001511	±2.5	PASS
GSM1900 TM2 HCH	37)		(6)	VN	-30	-7.17	-0.003754	±2.5	PASS
GSM1900 TM2 HCH				VN	-20	1.36	0.000712	±2.5	PASS
GSM1900 TM2 HCH									PASS
GSM1900 TM2 HCH VN 10 0.45 0.000236 ±2.5 PASS VN 20 -6.72 -0.003519 ±2.5 PASS VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS				248942		200		1	
VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS	GSM1900	TM2	нсн	VN	10	0.45	0.000236	±2.5	PASS
VN 30 2.26 0.001183 ±2.5 PASS VN 40 -4.78 -0.002503 ±2.5 PASS				VN					
VN 40 -4.78 -0.002503 ±2.5 PASS									
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			6		1.00	57 /	ACCT		100





















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Test Test Band Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
		VN	-30	-0.39	-0.000211	±2.5	PASS
		VN	-20	2.84	0.001535	±2.5	PASS
		VN	-10	0.42	0.000227	±2.5	PASS
	6.	VN	0	4.75	0.002567	±2.5	PASS
GSM1900 TM3	LCH	VN	10	-0.32	-0.000173	±2.5	PASS
		VN	20	-1.07	-0.000578	±2.5	PASS
(48)		VN	30	-5.13	-0.002773	±2.5	PASS
(6)		VN	40	-3.42	-0.001848	±2.5	PASS
		VN	50	-1.32	-0.000713	±2.5	PASS
		VN	-30	-8.91	-0.004739	±2.5	PASS
9)		VN	-20	-7.75	-0.004122	±2.5	PASS
/		VN	-10	-6.04	-0.003213	±2.5	PASS
		VN	0	-5.39	-0.002867	±2.5	PASS
GSM1900 TM3	МСН	VN	10	2.10	0.001117	±2.5	PASS
(35)		VN	20	-0.71	-0.000378	±2.5	PASS
		VN	30	3.62	0.001926	±2.5	PASS
		VN	40	0.13	0.000069	±2.5	PASS
	(S)	VN	50	-2.91	-0.001548	±2.5	PASS
)	(6)	VN	-30	-4.04	-0.002115	±2.5	PASS
		VN	-20	-1.90	-0.000995	±2.5	PASS
		VN	-10	-0.16	-0.000084	±2.5	PASS
		VN	0	0.81	0.000424	±2.5	PASS
GSM1900 TM3	нсн	VN	10	1.87	0.000979	±2.5	PASS
		VN	20	2.36	0.001236	±2.5	PASS
		VN	30	5.46	0.002859	±2.5	PASS
		VN	40	-5.04	-0.002639	±2.5	PASS
	6	VN	50	5.07	0.002655	±2.5	PASS









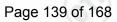














Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	.,
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	15.81	0.019129	±2.5	PASS
		LCH	TN	VN	8.41	0.010174	±2.5	PASS
	6	103	TN	VH	4.12	0.004985	±2.5	PASS
	6		TN	VL	11.89	0.014212	±2.5	PASS
WCDMA850	TM1	мсн	TN	VN	8.41	0.888801	±2.5	PASS
			TN	VH	583.69	0.697865	±2.5	PASS
			TN	VL	2.85	0.003370	±2.5	PASS
		нсн	TN	VN	8.41	-0.006651	±2.5	PASS
			TN	VH	13.55	0.016005	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdic
/	6	\cup	TN	VL	102.43	0.123950	±2.5	PASS
		LCH	TN	VN	-0.06	-0.000074	±2.5	PASS
			TN	VH	51.82	0.062704	±2.5	PASS
		(e	TN	VL	23.91	0.028587	±2.5	PASS
WCDMA850	TM2	MCH	TN	VN	-0.06	-0.163990	±2.5	PASS
			TN	VH	88.46	0.105757	±2.5	PASS
		200	TN	VL	70.83	0.083666	±2.5	PASS
	(6	НСН	TN	VN	-0.06	-0.056180	±2.5	PASS
			TN	VH	90.85	0.107313	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdic
(62)		(6)	TN	VL	-1.88	-0.002271	±2.5	PASS
		LCH	TN	VN	-58.03	-0.070219	±2.5	PASS
			TN	VH	26.29	0.031814	±2.5	PASS
	6	9	TN	VL	35.48	0.042416	±2.5	PASS
WCDMA850	TM3	мсн	TN	VN	-58.03	-0.043200	±2.5	PASS
			TN	VH	-64.83	-0.077516	±2.5	PASS
			TN	VL	-27.54	-0.032533	±2.5	PASS
		нсн	TN	VN	-58.03	0.047024	±2.5	PASS
		16	TN	VH	30.35	0.035849	±2.5	PASS

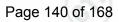














Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
(67)		(TN	VL	173.16	0.093477	±2.5	PASS
		LCH	TN	VN	301.01	0.162497	±2.5	PASS
			TN	VH	23.97	0.012941	±2.5	PASS
	1	(B)	TN	VL	313.58	0.166800	±2.5	PASS
WCDMA1900	TM1	мсн	TN	VN	301.01	0.163577	±2.5	PASS
			TN	VH	-8.48	-0.004513	±2.5	PASS
			TN	VL	31.89	0.016718	±2.5	PASS
		нсн	TN	VN	301.01	0.003895	±2.5	PASS
(0)		1	TN	VH	29.54	0.015486	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
Dana	Wodo	Onamio	TN	VL	-66.70	-0.036005	±2.5	PASS
	10	LCH	TN	VN	-11.02	-0.005947	±2.5	PASS
		2011	TN	VH	-112.99	-0.060997	±2.5	PASS
			TN	VL	-32.27	-0.017166	±2.5	PASS
WCDMA1900	TM2	МСН	TN	VN	-11.02	-0.101536	±2.5	PASS
			TN	VH	138.29	0.073559	±2.5	PASS
			TN	VL	-86.84	-0.045522	±2.5	PASS
		НСН	TN	VN	-11.02	-0.073486	±2.5	PASS
	(6	S)	TN	VH	-14.14	-0.007415	±2.5	PASS
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	
		(TN	VL	48.72	0.026302	±2.5	PASS
		LCH	TN	VN	103.55	0.055898	±2.5	PASS
			TN	VH	-20.74	-0.011194	±2.5	PASS
·		S	TN	VL	61.58	0.032758	±2.5	PASS
WCDMA1900	TM3	MCH	TN	VN	103.55	0.053333	±2.5	PASS
	100		TN	VH	-114.73	-0.061027	±2.5	PASS
			TN	VL	28.52	0.014950	±2.5	PASS
		HCH	TN	VN	103.55	-0.036739	±2.5	PASS
(25°)			TN	VH	95.67	0.050153	±2.5	PASS

















Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	Verdict
			VN	-30	6.50	0.007866	±2.5	PASS
			VN	-20	-10.25	-0.012408	±2.5	PASS
(4)		(1	VN	-10	9.38	0.011355	±2.5	PASS
		/	VN	0	-3.17	-0.003841	±2.5	PASS
WCDMA850	TM1	LCH	VN	10	13.89	0.016802	±2.5	PASS
(3)		13	VN	20	-0.85	-0.001034	±2.5	PASS
(67)		(6)	VN	30	12.53	0.015159	±2.5	PASS
			VN	40	0.64	0.000775	±2.5	PASS
			VN	50	10.85	0.013128	±2.5	PASS
X			VN	-30	423.31	0.506109	±2.5	PASS
))	VN	-20	568.25	0.679403	±2.5	PASS
			VN	-10	579.45	0.692794	±2.5	PASS
			VN	0	431.76	0.516216	±2.5	PASS
WCDMA850	TM1	MCH	VN	10	732.42	0.875684	±2.5	PASS
(0.)		(6)	VN	20	2.66	0.003174	±2.5	PASS
			VN	30	880.14	1.052298	±2.5	PASS
			VN	40	445.24	0.532324	±2.5	PASS
1		1	VN	50	741.49	0.886520	±2.5	PASS
/		/	VN	-30	-3.05	-0.003605	±2.5	PASS
			VN	-20	3.20	0.003785	±2.5	PASS
			VN	-10	-5.23	-0.006182	±2.5	PASS
(2)		(6)	VN	0	4.35	0.005137	±2.5	PASS
WCDMA850	TM1	НСН	VN	10	-4.76	-0.005623	±2.5	PASS
			VN	20	4.73	0.005587	±2.5	PASS
			VN	30	-5.05	-0.005966	±2.5	PASS
°))	VN	40	-4.21	-0.004975	±2.5	PASS
			VN	50	12.59	0.014869	±2.5	PASS























Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	
0		6	VN	-30	6.50	0.007866	±2.5	PASS
			VN	-20	-10.25	-0.012408	±2.5	PASS
			VN	-10	9.38	0.011355	±2.5	PASS
)		6)	VN	0	-3.17	-0.003841	±2.5	PASS
WCDMA850	TM1	LCH	VN	10	13.89	0.016802	±2.5	PASS
			VN	20	-0.85	-0.001034	±2.5	PASS
			VN	30	12.53	0.015159	±2.5	PASS
(672)		(3)	VN	40	0.64	0.000775	±2.5	PASS
			VN	50	10.85	0.013128	±2.5	PASS
			VN	-30	423.31	0.506109	±2.5	PASS
			VN	-20	568.25	0.679403	±2.5	PASS
)		(*)	VN	-10	579.45	0.692794	±2.5	PASS
			VN	0	431.76	0.516216	±2.5	PASS
WCDMA850	TM1	MCH	VN	10	732.42	0.875684	±2.5	PASS
(FI)			VN	20	2.66	0.003174	±2.5	PASS
		(6)	VN	30	880.14	1.052298	±2.5	PASS
			VN	40	445.24	0.532324	±2.5	PASS
			VN	50	741.49	0.886520	±2.5	PASS
\			VN	-30	-3.05	-0.003605	±2.5	PASS
)			VN	-20	3.20	0.003785	±2.5	PASS
			VN	-10	-5.23	-0.006182	±2.5	PASS
			VN	0	4.35	0.005137	±2.5	PASS
WCDMA850	TM1	нсн	VN	10	-4.76	-0.005623	±2.5	PASS
		(6)	VN	20	4.73	0.005587	±2.5	PASS
			VN	30	-5.05	-0.005966	±2.5	PASS
			VN	40	-4.21	-0.004975	±2.5	PASS
		6	VN	50	12.59	0.014869	±2.5	PASS
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	Verdic
WCDMA850			VN	-30	153.87	0.186193	±2.5	PASS
		C	VN	-20	-20.83	-0.025204	±2.5	PASS
	TM2	LCH	VN	-10	137.62	0.166528	±2.5	PASS
			VN	0	-101.12	-0.122362	±2.5	PASS
	- I		VN	10	76.63	0.092727	±2.5	PASS
		9	VN	20	-37.20	-0.045016	±2.5	PASS
		/	VN	30	-111.50	-0.134918	±2.5	PASS

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			VN	40	68.18	0.082498	±2.5	PASS
			VN	50	-0.52	-0.000628	±2.5	PASS
		1	VN	-30	-23.97	-0.028660	±2.5	PASS
		(6)	VN	-20	35.08	0.041942	±2.5	PASS
			VN	-10	59.60	0.071259	±2.5	PASS
			VN	0	7.60	0.009085	±2.5	PASS
WCDMA850	TM2	мсн	VN	10	114.12	0.136442	±2.5	PASS
)	VN	20	46.49	0.055588	±2.5	PASS
			VN	30	-81.39	-0.097310	±2.5	PASS
			VN	40	-10.94	-0.013081	±2.5	PASS
		G	VN	50	32.33	0.038658	±2.5	PASS
(6)		160	VN	-30	28.11	0.033199	±2.5	PASS
			VN	-20	-49.03	-0.057910	±2.5	PASS
			VN	-10	-47.79	-0.056450	±2.5	PASS
9		9	VN	0	-91.23	-0.107763	±2.5	PASS
WCDMA850	TM2	нсн	VN	10	-42.59	-0.050304	±2.5	PASS
			VN	20	24.93	0.029451	±2.5	PASS
(cil)			VN	30	-44.27	-0.052286	±2.5	PASS
		(e.	VN	40	43.08	0.050881	±2.5	PASS
		6	VN	50	33.22	0.039237	±2.5	PASS
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	Verdict
7)	(6)	7)	VN	-30	-85.86	-0.103898	±2.5	PASS
			VN	-20	7.60	0.009195	±2.5	PASS
			VN	-10	29.05	0.035156	±2.5	PASS
			VN	0	-19.78	-0.023930	±2.5	PASS
WCDMA850	TM3	LCH	VN	10	91.05	0.110176	±2.5	PASS
			VN	20	-10.21	-0.012353	±2.5	PASS
			VN	30	-45.53	-0.055097	±2.5	PASS
		9	VN	40	47.56	0.057553	±2.5	PASS
		7	VN	50	82.26	0.099540	±2.5	PASS
			VN	-30	-48.55	-0.058051	±2.5	PASS
			VN	-20	35.64	0.042617	±2.5	PASS
		G.	VN	-10	23.53	0.028131	±2.5	PASS
		(6)	VN	0	39.46	0.047177	±2.5	PASS
WCDMA850	TM3	MCH	VN	10	103.97	0.124311	±2.5	PASS
			VN	20	-40.51	-0.048436	±2.5	PASS
•)		9)	VN	30	49.22	0.058853	±2.5	PASS
1		/	VN	(W)	-81.68	-0.097657	-	

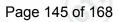
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			VN	50	21.67	0.025906	±2.5	PASS
			VN	-30	-20.68	-0.024422	±2.5	PASS
			VN	-20	11.80	0.013932	±2.5	PASS
(6,0)			VN	-10	-41.11	-0.048556	±2.5	PASS
			VN	0	-28.78	-0.033993	±2.5	PASS
WCDMA850	TM3	НСН	VN	10	19.76	0.023341	±2.5	PASS
			VN	20	6.12	0.007227	±2.5	PASS
	6.		VN	30	5.42	0.006398	±2.5	PASS
			VN	40	94.60	0.111746	±2.5	PASS
			VN	50	120.93	0.142837	±2.5	PASS







Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm	Verdict
			VN	-30	-0.08	-0.000041	±2.5	PASS
			VN	-20	34.01	0.018361	±2.5	PASS
	1		VN	-10	12.77	0.006895	±2.5	PASS
	(6)	9	VN	0	38.24	0.020643	±2.5	PASS
WCDMA1900	TM1	LCH	VN	10	166.17	0.089704	±2.5	PASS
			VN	20	11.46	0.006186	±2.5	PASS
			VN	30	125.29	0.067637	±2.5	PASS
		6	VN	40	158.98	0.085824	±2.5	PASS
			VN	50	2.27	0.001227	±2.5	PASS
			VN	-30	3.57	0.001899	±2.5	PASS
	(2	9	VN	-20	10.21	0.005430	±2.5	PASS
	10		VN	-10	11.76	0.006258	±2.5	PASS
			VN	0	6.48	0.003449	±2.5	PASS
WCDMA1900	TM1	МСН	VN	10	23.09	0.012280	±2.5	PASS
		6	VN	20	18.95	0.010081	±2.5	PASS
		10	VN	30	28.72	0.015275	±2.5	PASS
			VN	40	291.53	0.155071	±2.5	PASS
	امر		VN	50	14.11	0.007508	±2.5	PASS
	(3)		VN	-30	21.41	0.011223	±2.5	PASS
	6	_	VN	-20	3.48	0.001824	±2.5	PASS
			VN	-10	172.97	0.090676	±2.5	PASS
		/	VN	0	24.67	0.012934	±2.5	PASS
WCDMA1900	TM1	нсн	VN	10	28.75	0.015070	±2.5	PASS
			VN	20	36.85	0.019317	±2.5	PASS
			VN	30	-2.29	-0.001200	±2.5	PASS
	0		VN	40	12.31	0.006455	±2.5	PASS
)	(6)	9	VN	50	22.23	0.011654	±2.5	PASS
							Limit	
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	(ppm	Verdict
(0,)		0	VN	-30	134.55	0.072637	±2.5	PASS
		_	VN	-20	81.45	0.043971	±2.5	PASS
WCDMA1900	TM2	LCH	VN	-10	30.84	0.016648	±2.5	PASS
021111 (1000	10		VN	0	-80.26	-0.043328	±2.5	PASS
	(6)		VN	10	34.91	0.018847	±2.5	PASS
			V I V	10	I .			. 7.00

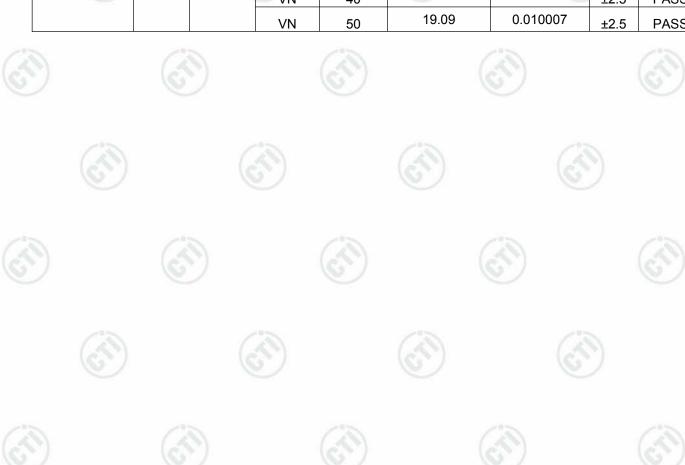


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			VN	20	71.72	0.038715	±2.5	PASS
			VN	30	-22.98	-0.012405	±2.5	PASS
			VN	40	-119.72	-0.064630	±2.5	PASS
		(6)	VN	50	-105.29	-0.056837	±2.5	PASS
			VN	-30	-19.00	-0.010105	±2.5	PASS
			VN	-20	78.87	0.041954	±2.5	PASS
			VN	-10	176.91	0.094101	±2.5	PASS
)			VN	0	42.66	0.022693	±2.5	PASS
WCDMA1900	TM2	МСН	VN	10	44.68	0.023765	±2.5	PASS
			VN	20	124.48	0.066213	±2.5	PASS
(1)			VN	30	45.59	0.024252	±2.5	PASS
0		10	VN	40	54.52	0.029000	±2.5	PASS
			VN	50	67.70	0.036012	±2.5	PASS
	51		VN	-30	86.76	0.045482	±2.5	PASS
9			VN	-20	69.67	0.036523	±2.5	PASS
/		/	VN	-10	-43.05	-0.022565	±2.5	PASS
			VN	0	46.14	0.024189	±2.5	PASS
WCDMA1900	TM2	НСН	VN	10	95.17	0.049889	±2.5	PASS
		(6	VN	20	-151.46	-0.079398	±2.5	PASS
			VN	30	78.37	0.041083	±2.5	PASS
			VN	40	131.88	0.069135	±2.5	PASS
			VN	50	43.84	0.022981	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm	Verdict
			VN	-30	88.85	0.047966	±2.5	PASS
(6,)		6	VN	-20	-43.66	-0.023567	±2.5	PASS
			VN	-10	62.39	0.033682	±2.5	PASS
			VN	0	54.70	0.029531	±2.5	PASS
WCDMA1900	TM3	LCH	VN	10	-8.01	-0.004325	±2.5	PASS
/			VN	20	42.48	0.022933	±2.5	PASS
			VN	30	13.70	0.007397	±2.5	PASS
-0.5			VN	40	19.13	0.010330	±2.5	PASS
(1)		6	VN	50	18.17	0.009811	±2.5	PASS
			VN	-30	103.00	0.054786	±2.5	PASS
			VN	-20	-11.60	-0.006168	±2.5	PASS
WCDMA1900	TM3	мсн	VN	-10	190.83	0.101503	±2.5	PASS
•)			VN	0	71.79	0.038188	±2.5	PASS
/		/	VN	10	117.13	0.062301	±2.5	PASS



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						5.70-2		
			VN	20	88.46	0.047051	±2.5	PASS
			VN	30	-41.32	-0.021979	±2.5	PASS
		1	VN	40	-44.07	-0.023440	±2.5	PASS
(6,1)		(6	VN	50	7.95	0.004229	±2.5	PASS
			VN	-30	-17.81	-0.009335	±2.5	PASS
			VN	-20	64.24	0.033676	±2.5	PASS
0		0	VN	-10	60.10	0.031508	±2.5	PASS
)			VN	0	100.04	0.052441	±2.5	PASS
WCDMA1900	TM3	НСН	VN	10	39.34	0.020621	±2.5	PASS
			VN	20	-2.50	-0.001312	±2.5	PASS
		6	VN	30	-61.48	-0.032228	±2.5	PASS
6		10	VN	40	51.30	0.026892	±2.5	PASS
			VN	50	19.09	0.010007	±2.5	PASS









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Appendix G): Effective Radiated Power of Transmitter (ERP/EIRP)

	Frague	2001	Detector	RBW	VBW	Remark
	Freque	-	- (200	- 1	~~
	30MHz-			120kHz	300kHz	Peak
	Above	1GHz	Peak	1MHz	3MHz	Peak
Measurement Procedure:	Anechoic of length, mo of the trans 2) The EUT winterference antenna to 3) The disturb raising and the turntab measurem 4) Steps 1) to and horizo 5) The transmathe antenna 6) A signal at radiating copolarized, at the test	vas powered Chamber. The dulation modern mod	ode and the mean test. Seters(above 180 antenna, which transmitter was som 1m to 4m the fundamental ende. Informed with the stion. It is a managed and so wimately at the substitution of the substitution antenna was rai	the transmitter asuring receives the distart was mounted a maximized of the receive antimission was received the substitution and the resed and lower and generated.	was extended wer shall be turned is 1 meter of on the top of on the test received and by maximized, and the receive anter on an the center on antenna by eceive antenna for was adjusted to obtain or was adjusted.	d to its maximum ned to the frequence of away from the favoriable-height eliver display by rotating through 360 field strength enna in both vertical tenna. The center of the transmitter of means of a nonas horizontally a maximum reading duntil the measures.
imit	7) The output 8) Steps 6) ar 9) Calculate p ERP(d EIRP= where: Pg is the gene 10) Test the El 11) The radiati operation i	power into nd 7)were re power in dBr Bm) = Pg(dBBm) = Pg(dBBBm) = Pg(dBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	the substitution epeated with bot m by the following Bm) – cable loss Bm) – cable los	antenna was th antennas p ng formula: s (dB) + anter s (dB) + ante substitution a e middle cha rmed in X, Y positioning w	olarized. nna gain (dBd nna gain (dBi ntenna. nnel the High , Z axis positio hich it is wors	ed.) est channel oning for EUT e case.
_imit:	7) The output 8) Steps 6) ar 9) Calculate p ERP(d EIRP= where: Pg is the gene 10) Test the El 11) The radiati operation i	power into nd 7)were re power in dBr Bm) = Pg(dEBm) = P	the substitution epeated with both the following by the f	antenna was th antennas p ng formula: s (dB) + anter s (dB) + anter substitution a e middle cha brimed in X, Y positioning w uencies mea	olarized. nna gain (dBd nna gain (dBi ntenna. nnel the High , Z axis positio hich it is wors	ed.) est channel oning for EUT e case. mplete. DMA/HSDPA
imit:	7) The output 8) Steps 6) ai 9) Calculate p ERP(d EIRP(c EIRP= where: Pg is the gene 10) Test the El 11) The radiati operation i 12) Repeat about	power into nd 7)were re power in dBr Bm) = Pg(dBBm) = P	the substitution epeated with both peated with both peated with both peated with both peated with peated with peated with peated with a light peated with both peated with peated with both peated with peat	antenna was th antennas p ng formula: s (dB) + anter s (dB) + anter substitution a e middle cha rmed in X, Y positioning w uencies mea	nna gain (dBd nna gain (dBi nna gain (dBi ntenna. nnel the High , Z axis position hich it is wors sured was co	est channel pring for EUT e case. mplete.





Measurement Data





			Gl	PRS 850			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
100/004.0	150	183	18.27	38.45	-20.18	Pass	Н
128/824.2	150	226	20.14	38.45	-18.31	Pass	V
100/026 6	150	224	19.04	38.45	-19.41	Pass	н
190/836.6	150	176	22.28	38.45	-16.17	Pass	V
054/040.0	150	185	19.75	38.45	-18.70	Pass	Н
251/848.8	150	114	21.46	38.45	-16.99	Pass	V

(62)		(67)	E	OGE 850	(J.)		(63)
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
100/004.0	150	215	17.35	38.45	-21.10	Pass	Н
128/824.2	150	131	20.14	38.45	-18.31	Pass	V
100/000 0	150	165	18.24	38.45	-20.21	Pass	н
190/836.6	150	110	20.75	38.45	-17.70	Pass	V
254/040.0	150	263	17.31	38.45	-21.14	Pass	Н
251/848.8	150	345	19.23	38.45	-19.22	Pass	V

			WCE	MA band \	/		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
4132/	150	98	14.88	38.45	-23.57	Pass	н (💦)
826.4	150	252	16.14	38.45	-22.31	Pass	V
4182/	150	171	12.91	38.45	-25.54	Pass	Н
836.6	150	197	14.64	38.45	-23.81	Pass	V
4233/	150	109	14.09	38.45	-24.36	Pass	(C)) H
846.6	150	115	16.28	38.45	-22.17	Pass	V







			HSD	PA band V	/		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
4132/	150	135	14.08	38.45	-24.37	Pass	Н
826.4	150	127	15.19	38.45	-23.26	Pass	V
4182/	150	255	12.69	38.45	-25.76	Pass	Н
836.6	150	247	14.53	38.45	-23.92	Pass	V
4233/	150	341	14.62	38.45	-23.83	Pass	н 🥨
846.6	150	277	15.73	38.45	-22.72	Pass	V

	(HSU	IPA band V			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
4132/	150	84	14.82	38.45	-23.63	Pass	Н
826.4	150	97	15.88	38.45	-22.57	Pass	V
4182/	150	151	14.52	38.45	-23.93	Pass	н
836.6	150	213	15.25	38.45	-23.20	Pass	V
4233/	150	181	14.16	38.45	-24.29	Pass	Н
846.6	150	121	15.54	38.45	-22.91	Pass	V

			GF	PRS 1900			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
0)	150	109	20.82	33.01	-12.19	Pass	H (A)
512/1850.2	150	260	22.31	33.01	-10.70	Pass	V
	150	170	20.74	33.01	-12.27	Pass	Н
661/1880.0	150	263	20.84	33.01	-12.17	Pass	V
	150	125	18.57	33.01	-14.44	Pass	Н
810/1909.8	150	195	21.66	33.01	-11.35	Pass	V

			E	OGE1900			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
7	150	235	17.91	33.01	-15.10	Pass	н
512/1850.2	150	167	19.24	33.01	-13.77	Pass	V
	150	232	17.57	33.01	-15.44	Pass	Н
661/1880.0	150	278	20.33	33.01	-12.68	Pass	V
(0,	150	161	16.45	33.01	-16.56	Pass	Н
810/1909.8	150	130	18.52	33.01	-14.49	Pass	V

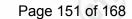










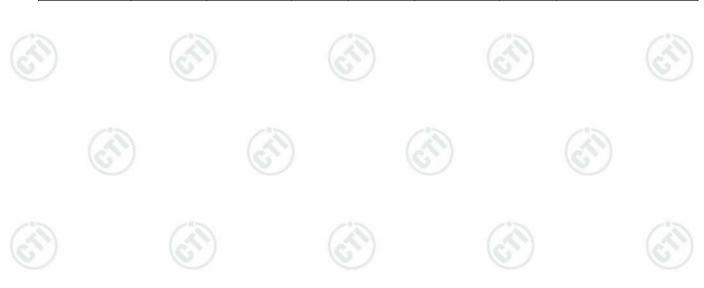




			WCE	MA band I	I		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
	150	163	15.92	33.01	-17.09	Pass	Н
9262/1852.4	150	33	16.78	33.01	-16.23	Pass	V
	150	195	13.84	33.01	-19.17	Pass	Н
9400/1880.0	150	186	15.70	33.01	-17.31	Pass	V
/	150	317	13.82	33.01	-19.19	Pass	н
9538/1907.6	150	223	14.65	33.01	-18.36	Pass	V

			HSD	PA band I			(41)
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
0000/4050 4	150	184	13.18	33.01	-19.83	Pass	Н
9262/1852.4	150	135	14.48	33.01	-18.53	Pass	V
0.400/4.000.0	150	128	14.60	33.01	-18.41	Pass	н
9400/1880.0	150	145	15.61	33.01	-17.40	Pass	V
0500/4007.0	150	140	13.62	33.01	-19.39	Pass	Н
9538/1907.6	150	158	15.76	33.01	-17.25	Pass	V

			HSU	JPA band I			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
9262/1852.4	150	145	13.35	33.01	-19.66	Pass	H (A)
9202/1002.4	150	127	14.79	33.01	-18.22	Pass	V
9400/1880.0	150	178	13.85	33.01	-19.16	Pass	Н
9400/1000.0	150	312	15.26	33.01	-17.75	Pass	V
9538/1907.6	150	247	14.13	33.01	-18.88	Pass	(C) H
9030/1907.0	150	279	14.87	33.01	-18.14	Pass	V





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Appendix H): Field strength of spurious radiation

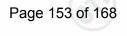
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak	
	30MHz-1GHz	Peak	120kHz	300kHz	Peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
Measurement	1. Scan up to 10 th harmon	nic, find the ma	ximum radia	ation freque	ncy to measu	re.
Procedure:	 The technique used to antenna substitution m actual ERP/EIRP emis Test procedure as below: 	ethod. Substitu	ition method			
	 The EUT was powered Anechoic Chamber. The length. modulation moderates frequency of the transman. The EUT was set 3 medeinterference-receiving antenna tower. 	ne antenna of the de and the meanitter under testers(above 180 antenna, which	ne transmitte asuring rece t. GHz the dista was mount	er was exte eiver shall b ance is 1 m ed on the to	nded to its made tuned to the seter) away froop of a variable	m the e-height
	 3) The disturbance of the raising and lowering from 360° the turntable. After the measurement was made. 4) Steps 1) to 3) were per and horizontal polariza. 	om 1m to 4m the er the fundamer de. formed with the	ne receive and tall emission	ntenna and n was maxi	by rotating thi mized, a field	rough strength
	 5) The transmitter was the the antenna was approx 6) A signal at the disturbal radiating cable. With be polarized, the receive a reading at the test received measured field strength 	en removed and eximately at the nce was fed to oth the substitutantenna was ra siver. The level	same locat the substitution and the ised and low of the signa	ion as the c ition antenn receive an vered to ob il generator	center of the train by means of tennas horizo tain a maximu was adjusted	ansmitte f a non- ntally m until the
	7) The output power into the strength of the s	the substitution peated with bo n by the followin Bm) – cable loss Bm) – cable los	antenna wa th antennas ng formula: s (dB) + ant	as then mea polarized. enna gain (asured. dBd)	(cr
	Pg is the generator ou 10) Test the EUT in the low 11) The radiation measure operation mode,And fo 12) Repeat above procedu	vest channel, the ments are perforund the X axis	ne middle chormed in X, positioning	nannel the H Y, Z axis po which it is v	lighest channo ositioning for E vorse case.	
Limit:	Attenuated at least 43+10ld	na(P)				





Test Data:





		GPRS 85	0 128channel/824	.2MHz(low	est channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	149	14	-55.19	-13.00	-42.19	Pass	Н
1953.211	150	124	-55.35	-13.00	-42.35	Pass	Н
2719.353	150	360	-56.20	-13.00	-43.20	Pass	н
3844.279	150	359	-55.34	-13.00	-42.34	Pass	н 🥨
5895.771	151	147	-55.96	-13.00	-42.96	Pass	Н
8659.098	150	124	-57.16	-13.00	-44.16	Pass	Н
1159.096	152	78	-55.79	-13.00	-42.79	Pass	V
1809.605	150	99	-54.46	-13.00	-41.46	Pass	V
2519.418	150	147	-55.11	-13.00	-42.11	Pass	V
3588.939	149	154	-55.71	-13.00	-42.71	Pass	V
4076.070	150	167	-57.20	-13.00	-44.20	Pass	V
5865.832	150	347	-56.46	-13.00	-43.46	Pass	V

		GPRS 85	0 190channel/836.	6MHz(mid	dle channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1159.096	151	226	-54.39	-13.00	-41.39	Pass	Н
1439.090	150	21	-54.21	-13.00	-41.21	Pass	Н
2024.074	150	360	-53.78	-13.00	-40.78	Pass	H
3160.026	152	70	-54.56	-13.00	-41.56	Pass	н 🦪
5910.798	150	148	-54.65	-13.00	-41.65	Pass	н
7941.185	149	97	-55.91	-13.00	-42.91	Pass	Н
1159.096	149	27	-53.46	-13.00	-40.46	Pass	V
1923.606	150	100	-54.79	-13.00	-41.79	Pass	V
2726.283	151	359	-55.32	-13.00	-42.32	Pass	V
4278.055	150	20	-57.14	-13.00	-44.14	Pass	V
5925.863	150	147	-54.26	-13.00	-41.26	Pass	V
9784.466	150	100	-55.36	-13.00	-42.36	Pass	V

		- /			7,700		7,707
		GPRS 85	0 251channel/848.	8MHz(high	est channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1159.096	151	351	-55.31	-13.00	-42.31	Pass	Н
1786.719	150	200	-55.67	-13.00	-42.67	Pass	Н
2519.418	149	316	-55.94	-13.00	-42.94	Pass	Н
3625.669	149	100	-54.92	-13.00	-41.92	Pass	H /°
5420.742	150	79	-55.69	-13.00	-42.69	Pass	н
7920.996	151	10	-56.81	-13.00	-43.81	Pass	Н



Report No.: EED32J00095405 Page 154 of 168 1371.145 150 47 -57.85 -13.00 -44.85 Pass ٧ ٧ 2039.590 150 100 -54.57 -13.00 -41.57 Pass 3143.979 149 360 -55.48 -42.48 -13.00 Pass 4234.716 149 70 -57.24 -13.00 -44.24 **Pass** ٧ 6445.156 150 27 -57.55 -13.00 -44.55 **Pass** ٧ 9809.404 152 210 -56.36 -13.00 -43.36 **Pass**

		EGPRS 8	50 128channel/824	.2MHz(low	vest channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	149	356	-54.89	-13.00	-41.89	Pass	H
2065.715	150	147	-52.34	-13.00	-39.34	Pass	Н
2927.691	151	97	-55.35	-13.00	-42.35	Pass	Н
4267.178	150	100	-57.22	-13.00	-44.22	Pass	Н
5910.798	151	110	-55.02	-13.00	-42.02	Pass	H/
7961.425	149	57	-57.00	-13.00	-44.00	Pass	н (С
1343.505	150	248	-57.24	-13.00	-44.24	Pass	V
1732.967	150	220	-55.72	-13.00	-42.72	Pass	V
2352.076	149	10	-55.15	-13.00	-42.15	Pass	V
3570.714	151	100	-55.51	-13.00	-42.51	Pass	V
5880.782	150	38	-56.06	-13.00	-43.06	Pass	V
8398.593	150	360	-55.64	-13.00	-42.64	Pass	V

(6))	ldle channel)	.6MHz(mid	50 190channel/836	EGPRS 8	(6))
Antenna Polaxis.	Result	Over Limit (dB)	Limit (dBm)	Spurious Emission Level (dBm)	Azimuth (deg)	Height (cm)	Frequency (MHz)
Н	Pass	-42.03	-13.00	-55.03	352	151	1159.096
S) Н	Pass	-43.03	-13.00	-56.03	167	150	1439.090
Н	Pass	-42.14	-13.00	-55.14	91	149	2525.839
Н	Pass	-42.00	-13.00	-55.00	211	150	3795.660
н	Pass	-41.93	-13.00	-54.93	100	151	5895.771
н (с	Pass	-43.78	-13.00	-56.78	360	151	7920.996
V	Pass	-41.92	-13.00	-54.92	79	150	1646.948
V	Pass	-41.48	-13.00	-54.48	70	150	2733.232
V	Pass	-42.96	-13.00	-55.96	254	149	3552.582
V	Pass	-43.50	-13.00	-56.50	100	149	5850.919
V	Pass	-45.03	-13.00	-58.03	10	150	7566.249
V	Pass	-43.64	-13.00	-56.64	78	150	9809.404

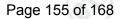














EGPRS 850 251channel/848.8MHz(highest channel) **Spurious** Frequency Height Azimuth Limit Over Limit Antenna **Emission Level** Result Polaxis. (MHz) (dB) (cm) (deg) (dBm) (dBm) 1439.090 151 331 -55.67 -13.00 -42.67 Pass Н Н 2086.856 150 100 -53.40 -13.00 -40.40 Pass 3168.080 150 261 -55.88 -13.00 -42.88 Pass Н 4278.055 149 20 Н -57.39-13.00-44.39 Pass 5880.782 150 Н 31 -55.81 -13.00 -42.81**Pass** 8208.370 150 200 -57.62 -13.00 -44.62Pass Η 1439.090 150 -55.50 ٧ 37 -13.00 -42.50Pass 151 ٧ 2070.980 100 -54.35 -13.00 -41.35 **Pass** 3026.195 150 69 -56.34 -13.00 -43.34 **Pass** V 4086.459 -44.78 ٧ 152 147 -57.78 -13.00 Pass 6203.700 150 100 -57.11 -13.00 -44.11 Pass V 8549.586 150 359 -57.11 -13.00 -44.11 Pass ٧

		GPRS190	0 512channel/1850	.2MHz(low	vest channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1410.080	151	360	-57.70	-13.00	-44.70	Pass	Н
2481.231	150	121	-54.97	-13.00	-41.97	Pass	Н
3445.704	150	110	-54.77	-13.00	-41.77	Pass	Н
4299.890	150	11	-56.40	-13.00	-43.40	Pass	н
5940.967	150	169	-55.05	-13.00	-42.05	Pass	н
8527.851	149	64	-56.17	-13.00	-43.17	Pass	Н
1719.783	150	278	-55.85	-13.00	-42.85	Pass	V
2474.923	151	200	-55.57	-13.00	-42.57	Pass	V
3428.206	150	220	-55.52	-13.00	-42.52	Pass	V
4421.992	152	360	-57.50	-13.00	-44.50	Pass	V
5971.290	149	359	-56.18	-13.00	-43.18	Pass	V
7961.425	150	341	-57.79	-13.00	-44.79	Pass	V

/	6	GPRS19	00 661channel/188	0MHz(mide	dle channel)		6
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1597.401	151	39	-54.92	-13.00	-41.92	Pass	Н
2292.959	150	360	-53.35	-13.00	-40.35	Pass	Н
3143.979	150	70	-54.87	-13.00	-41.87	Pass	Н
4299.890	149	61	-56.31	-13.00	-43.31	Pass	H
5747.586	150	359	-54.75	-13.00	-41.75	Pass	Н (А
7941.185	151	241	-56.16	-13.00	-43.16	Pass	н



Page 156 of 168 Report No.: EED32J00095405 1663.803 150 289 -56.19 -13.00 -43.19 Pass ٧ 2474.923 ٧ 150 10 -55.77 -13.00 -42.77 Pass 3192.366 151 -55.89 -42.89 Pass ٧ 100 -13.00 ٧ 4421.992 150 110 -58.83 -13.00 -45.83 **Pass** 5895.771 149 79 -56.19 -13.00 -43.19 **Pass** ٧ 8022.456 152 64 -56.68 -13.00 -43.68 Pass ٧

		GPRS1900	810channel/1909	.8MHz(hig	hest channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1663.803	151	79	-56.12	-13.00	-43.12	Pass	Н
2513.013	149	146	-55.99	-13.00	-42.99	Pass	H
3616.451	150	100	-55.27	-13.00	-42.27	Pass	Н
4871.103	150	255	-59.68	-13.00	-46.68	Pass	Н
5956.109	151	10	-56.21	-13.00	-43.21	Pass	Н
8681.168	150	360	-57.44	-13.00	-44.44	Pass	н
1702.361	150	79	-56.10	-13.00	-43.10	Pass	V
2506.624	150	51	-56.17	-13.00	-43.17	Pass	V
3233.257	152	200	-55.78	-13.00	-42.78	Pass	V
5434.559	150	249	-56.43	-13.00	-43.43	Pass	V
7081.697	149	78	-59.40	-13.00	-46.40	Pass	V
8549.586	150	100	-56.22	-13.00	-43.22	Pass	V

_	-	EGPRS 19	00 512channel/185	0.2MHz(lo	west channel)	\	-
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	151	10	-56.14	-13.00	-43.14	Pass	Н
2637.542	150	179	-54.76	-13.00	-41.76	Pass	Н
3616.451	150	141	-54.59	-13.00	-41.59	Pass	Н
5244.295	152	200	-55.91	-13.00	-42.91	Pass	Н
6868.647	150	201	-57.64	-13.00	-44.64	Pass	Н
9065.084	150	360	-55.87	-13.00	-42.87	Pass	Н
1573.189	150	70	-55.99	-13.00	-42.99	Pass	V
2358.071	149	89	-54.92	-13.00	-41.92	Pass	V
3176.155	149	100	-54.85	-13.00	-41.85	Pass	V
4086.459	151	211	-56.37	-13.00	-43.37	Pass	V
5311.469	150	64	-56.66	-13.00	-43.66	Pass	V
6396.125	150	278	-56.62	-13.00	-43.62	Pass	V















		EGPRS 1	900 661channel/18	80MHz(mid	ldle channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	151	81	-56.15	-13.00	-43.15	Pass	Н
2382.204	150	64	-55.09	-13.00	-42.09	Pass	Н
3128.013	150	79	-55.01	-13.00	-42.01	Pass	H /
4299.890	150	100	-56.80	-13.00	-43.80	Pass	H (e
5956.109	152	360	-55.78	-13.00	-42.78	Pass	Н
7900.858	150	70	-55.74	-13.00	-42.74	Pass	Н
1573.189	150	10	-56.67	-13.00	-43.67	Pass	V
2500.251	150	61	-54.12	-13.00	-41.12	Pass	V
3436.944	149	104	-54.30	-13.00	-41.30	Pass	V
4748.673	149	110	-58.83	-13.00	-45.83	Pass	V
6363.645	150	101	-57.39	-13.00	-44.39	Pass	V
8549.586	150	360	-56.34	-13.00	-43.34	Pass	V

	E	EGPRS 190	00 810channel/190	9.8MHz(hi	ghest channel	1)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1672.296	151	316	-55.77	-13.00	-42.77	Pass	Н
2558.193	150	70	-55.26	-13.00	-42.26	Pass	Н
3428.206	152	81	-55.00	-13.00	-42.00	Pass	Н
4321.837	150	226	-57.93	-13.00	-44.93	Pass	H /
5910.798	149	210	-55.97	-13.00	-42.97	Pass	н (©
7900.858	150	101	-57.01	-13.00	-44.01	Pass	Н
1724.166	150	79	-56.57	-13.00	-43.57	Pass	V
2493.895	151	100	-55.54	-13.00	-42.54	Pass	V
3598.087	151	360	-53.95	-13.00	-40.95	Pass	V
4299.890	150	70	-56.19	-13.00	-43.19	Pass	V
5762.235	149	89	-55.93	-13.00	-42.93	Pass	V
7209.015	150	100	-58.84	-13.00	-45.84	Pass	V

















Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1329.894	151	38	-59.20	-13.00	-46.20	Pass	Н
2086.856	150	161	-53.84	-13.00	-40.84	Pass	Н
2651.004	150	79	-56.32	-13.00	-43.32	Pass	H
3570.714	149	271	-55.74	-13.00	-42.74	Pass	Н (А
4846.367	149	345	-58.96	-13.00	-45.96	Pass	н
5895.771	150	161	-55.75	-13.00	-42.75	Pass	Н
1340.089	150	332	-57.88	-13.00	-44.88	Pass	V
2044.788	151	100	-54.84	-13.00	-41.84	Pass	V
2719.353	152	147	-54.19	-13.00	-41.19	Pass	V
3393.477	150	10	-55.54	-13.00	-42.54	Pass	V
4478.633	151	360	-58.39	-13.00	-45.39	Pass	V
5880.782	150	14	-55.22	-13.00	-42.22	Pass	V

	W	CDMA ban	d V 4182 channel/	836.4MHz(middle chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1646.948	151	352	-56.09	-13.00	-43.09	Pass	Г/ н
2086.856	150	164	-53.57	-13.00	-40.57	Pass	Н
2832.394	150	79	-56.67	-13.00	-43.67	Pass	Н
3625.669	152	100	-55.76	-13.00	-42.76	Pass	H /
4946.072	150	258	-59.35	-13.00	-46.35	Pass	H (C)
6219.512	150	76	-57.04	-13.00	-44.04	Pass	Н
1646.948	149	360	-53.97	-13.00	-40.97	Pass	V
2519.418	150	124	-56.03	-13.00	-43.03	Pass	V
3120.061	149	10	-54.71	-13.00	-41.71	Pass	V
4444.562	150	360	-57.53	-13.00	-44.53	Pass	V
5956.109	150	70	-55.93	-13.00	-42.93	Pass	V
7920.996	150	281	-57.00	-13.00	-44.00	Pass	V







	W	CDMA ban	d V 4233 channel/8	346.6MHz(l	nighest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	151	332	-53.85	-13.00	-40.85	Pass	Н
2086.856	150	161	-52.94	-13.00	-39.94	Pass	Н
2846.851	151	316	-56.07	-13.00	-43.07	Pass	H /
4034.777	150	100	-56.28	-13.00	-43.28	Pass	Н (е
5895.771	150	24	-54.52	-13.00	-41.52	Pass	Н
8571.377	150	144	-56.96	-13.00	-43.96	Pass	Н
1159.096	149	179	-55.28	-13.00	-42.28	Pass	V
1685.115	150	10	-55.15	-13.00	-42.15	Pass	V
2382.204	152	46	-55.09	-13.00	-42.09	Pass	V
3410.797	151	147	-54.74	-13.00	-41.74	Pass	V
4772.910	150	100	-59.40	-13.00	-46.40	Pass	V
5956.109	150	50	-55.65	-13.00	-42.65	Pass	V

	H	ISDPA band	d V 4132 channel/8	326.4MHz(lowest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	151	159	-55.09	-13.00	-42.09	Pass	Н
2086.856	152	170	-53.40	-13.00	-40.40	Pass	Н
2935.153	150	160	-56.07	-13.00	-43.07	Pass	Н
3863.900	150	100	-56.55	-13.00	-43.55	Pass	н
5910.798	149	360	-54.20	-13.00	-41.20	Pass	н 🥨
7941.185	150	79	-56.71	-13.00	-43.71	Pass	Н
1343.505	150	247	-57.84	-13.00	-44.84	Pass	V
1809.605	149	220	-55.96	-13.00	-42.96	Pass	V
2382.204	150	200	-55.65	-13.00	-42.65	Pass	V
3104.217	151	21	-55.31	-13.00	-42.31	Pass	V
4076.070	149	156	-57.09	-13.00	-44.09	Pass	V
5910.798	150	100	-52.89	-13.00	-39.89	Pass	V

















	F	ISDPA band	d V 4182 channel/8	36.4MHz(r	middle channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1280.072	151	39	-56.48	-13.00	-43.48	Pass	Н
1998.475	152	161	-54.59	-13.00	-41.59	Pass	Н
2898.032	150	78	-56.58	-13.00	-43.58	Pass	H
3728.625	150	351	-55.90	-13.00	-42.90	Pass	Н (г
5257.662	150	349	-57.26	-13.00	-44.26	Pass	Н
7920.996	151	217	-56.99	-13.00	-43.99	Pass	Н
1159.096	150	100	-53.86	-13.00	-40.86	Pass	V
1642.761	150	145	-57.15	-13.00	-44.15	Pass	V
2263.960	149	360	-54.48	-13.00	-41.48	Pass	V
3359.099	149	54	-56.38	-13.00	-43.38	Pass	V
4410.750	150	100	-58.12	-13.00	-45.12	Pass	V
5910.798	150	246	-55.00	-13.00	-42.00	Pass	V

	H	HSDPA band	d V 4233channel/8	46.6MHz(h	ighest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1316.422	151	326	-58.54	-13.00	-45.54	Pass	И
1851.542	150	100	-54.95	-13.00	-41.95	Pass	Н
2545.202	150	172	-54.40	-13.00	-41.40	Pass	Н
3402.126	149	98	-55.02	-13.00	-42.02	Pass	H /
4467.247	150	47	-57.99	-13.00	-44.99	Pass	н
5940.967	150	100	-55.35	-13.00	-42.35	Pass	Н
1159.096	150	284	-55.80	-13.00	-42.80	Pass	V
1828.125	151	100	-54.36	-13.00	-41.36	Pass	V
2519.418	150	61	-55.58	-13.00	-42.58	Pass	V
3168.080	149	360	-55.63	-13.00	-42.63	Pass	V
4501.492	150	79	-58.45	-13.00	-45.45	Pass	V
5910.798	150	56	-55.08	-13.00	-42.08	Pass	V







	H	ISUPA ban	d V 4132 channel/8	326.4MHz(I	owest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1659.574	152	229	-55.77	-13.00	-42.77	Pass	Н
2571.250	152	170	-55.80	-13.00	-42.80	Pass	Н
3598.087	150	80	-55.36	-13.00	-42.36	Pass	H /
5448.410	150	100	-56.49	-13.00	-43.49	Pass	Н (е
7941.185	149	36	-57.13	-13.00	-44.13	Pass	Н
9538.543	150	79	-55.76	-13.00	-42.76	Pass	Н
1832.785	150	332	-54.56	-13.00	-41.56	Pass	V
2382.204	152	220	-55.12	-13.00	-42.12	Pass	V
3049.394	150	88	-57.01	-13.00	-44.01	Pass	V
4065.707	152	21	-58.03	-13.00	-45.03	Pass	V
5420.742	149	156	-57.34	-13.00	-44.34	Pass	V
7099.747	150	109	-58.36	-13.00	-45.36	Pass	V

	Н	ISUPA band	d V 4182 channel/8	36.4MHz(ı	middle channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1439.090	150	55	-54.63	-13.00	-41.63	Pass	Н
2039.590	152	192	-55.13	-13.00	-42.13	Pass	Н
2571.250	150	78	-56.04	-13.00	-43.04	Pass	Н
3410.797	150	351	-54.38	-13.00	-41.38	Pass	н
4490.048	150	169	-57.92	-13.00	-44.92	Pass	н
5925.863	151	217	-54.96	-13.00	-41.96	Pass	Н
1573.189	150	158	-57.74	-13.00	-44.74	Pass	V
2108.213	152	145	-55.86	-13.00	-42.86	Pass	V
2920.248	149	226	-56.22	-13.00	-43.22	Pass	V
3766.785	149	54	-56.51	-13.00	-43.51	Pass	V
5244.295	150	100	-57.89	-13.00	-44.89	Pass	V
6594.518	150	33	-57.96	-13.00	-44.96	Pass	V













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	F	ISUPA band	d V 4233channel/8	46.6MHz(h	ighest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1795.839	152	86	-54.54	-13.00	-41.54	Pass	Н
2684.961	149	226	-56.03	-13.00	-43.03	Pass	Н
3410.797	150	172	-55.48	-13.00	-42.48	Pass	Н
4490.048	149	98	-59.21	-13.00	-46.21	Pass	Н (
6203.700	150	99	-56.42	-13.00	-43.42	Pass	н
8681.168	150	100	-56.94	-13.00	-43.94	Pass	Н
1439.090	150	332	-55.98	-13.00	-42.98	Pass	V
1899.278	151	100	-54.65	-13.00	-41.65	Pass	V
2691.804	151	89	-55.78	-13.00	-42.78	Pass	V
3436.944	149	360	-56.47	-13.00	-43.47	Pass	V
4245.509	150	79	-57.29	-13.00	-44.29	Pass	V
5910.798	150	10	-55.45	-13.00	-42.45	Pass	V

	٧	CDMA ban	d II 9262 channel/1	852.4MHz(lowest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1518.111	151	351	-53.90	-13.00	-40.90	Pass	У н
2449.851	150	200	-54.91	-13.00	-41.91	Pass	Н
3160.026	150	217	-54.19	-13.00	-41.19	Pass	Н
3844.279	151	96	-55.30	-13.00	-42.30	Pass	H /
5448.410	150	100	-55.71	-13.00	-42.71	Pass	н 🤘
6594.518	149	351	-57.03	-13.00	-44.03	Pass	Н
1672.296	150	70	-56.08	-13.00	-43.08	Pass	V
2487.555	150	151	-54.92	-13.00	-41.92	Pass	V
3151.992	150	100	-56.12	-13.00	-43.12	Pass	V
4055.371	149	21	-56.32	-13.00	-43.32	Pass	V
5434.559	149	10	-56.33	-13.00	-43.33	Pass	V
7245.810	150	360	-59.59	-13.00	-46.59	Pass	V















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	V	VCDMA bar	nd II 9400 channel/	1880MHz(n	niddle channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1698.033	151	91	-54.58	-13.00	-41.58	Pass	Н
2241.025	150	100	-54.32	-13.00	-41.32	Pass	Н
3112.129	150	360	-54.12	-13.00	-41.12	Pass	H /
3863.900	149	351	-54.26	-13.00	-41.26	Pass	Н (г
5434.559	150	359	-56.22	-13.00	-43.22	Pass	н
7099.747	150	240	-58.18	-13.00	-45.18	Pass	Н
1529.749	150	100	-57.64	-13.00	-44.64	Pass	V
2168.079	151	248	-54.61	-13.00	-41.61	Pass	V
2957.654	150	358	-56.23	-13.00	-43.23	Pass	V
4076.070	151	70	-56.53	-13.00	-43.53	Pass	V
5420.742	150	154	-55.56	-13.00	-42.56	Pass	V
7961.425	150	100	-56.53	-13.00	-43.53	Pass	V

	W	CDMA band	d II 9538 channel/19	907.6MHz(highest chann	iel)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
2263.960	151	331	-55.03	-13.00	-42.03	Pass	У н
2935.153	150	100	-56.05	-13.00	-43.05	Pass	Н
3786.010	150	147	-55.27	-13.00	-42.27	Pass	Н
5434.559	149	154	-56.42	-13.00	-43.42	Pass	H /
7566.249	150	121	-58.34	-13.00	-45.34	Pass	н 🌑
9346.262	150	76	-56.33	-13.00	-43.33	Pass	Н
1573.189	149	49	-57.18	-13.00	-44.18	Pass	V
2258.204	150	100	-54.41	-13.00	-41.41	Pass	V
3096.325	151	67	-56.61	-13.00	-43.61	Pass	V
3616.451	150	100	-55.03	-13.00	-42.03	Pass	V
4736.600	151	360	-59.07	-13.00	-46.07	Pass	V
6363.645	150	40	-57.44	-13.00	-44.44	Pass	V















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	Н	SDPA band	d II 9262 channel/18	352.4MHz(I	owest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1597.401	151	61	-54.86	-13.00	-41.86	Pass	Н
2108.213	150	200	-54.07	-13.00	-41.07	Pass	Н
2846.851	150	157	-55.69	-13.00	-42.69	Pass	H /
3854.077	150	241	-55.31	-13.00	-42.31	Pass	Н (8
5434.559	152	100	-56.27	-13.00	-43.27	Pass	н
6886.154	150	169	-58.76	-13.00	-45.76	Pass	Н
1676.558	149	254	-55.89	-13.00	-42.89	Pass	V
2500.251	150	26	-55.58	-13.00	-42.58	Pass	V
3428.206	151	100	-55.37	-13.00	-42.37	Pass	V
4760.776	150	332	-59.46	-13.00	-46.46	Pass	V
5956.109	150	159	-55.22	-13.00	-42.22	Pass	V
7920.996	150	100	-57.03	-13.00	-44.03	Pass	V

		HSDPA ban	d II 9400 channel/1	880MHz(n	niddle channel)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1663.803	151	151	-54.31	-13.00	-41.31	Pass	У н
2506.624	150	79	-55.26	-13.00	-42.26	Pass	Н
3419.491	150	360	-54.05	-13.00	-41.05	Pass	Н
4299.890	152	200	-56.14	-13.00	-43.14	Pass	H /
5747.586	152	157	-55.32	-13.00	-42.32	Pass	н 🤘
7099.747	150	149	-59.01	-13.00	-46.01	Pass	Н
1728.561	150	217	-56.35	-13.00	-43.35	Pass	V
2382.204	151	360	-54.50	-13.00	-41.50	Pass	V
3436.944	151	100	-56.15	-13.00	-43.15	Pass	V
4652.947	150	243	-58.46	-13.00	-45.46	Pass	V
5925.863	149	100	-55.70	-13.00	-42.70	Pass	V
7920.996	150	100	-55.92	-13.00	-42.92	Pass	V















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ıayc	100	OI.	100

	H	SDPA band	II 9538 channel/19	07.6MHz(h	ighest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1557.252	151	37	-54.82	-13.00	-41.82	Pass	Н
2263.960	150	60	-55.12	-13.00	-42.12	Pass	Н
3135.986	149	360	-54.20	-13.00	-41.20	Pass	H
4467.247	150	79	-57.34	-13.00	-44.34	Pass	Н (8
5762.235	150	151	-55.74	-13.00	-42.74	Pass	н
7941.185	149	247	-57.09	-13.00	-44.09	Pass	Н
1529.749	150	291	-56.96	-13.00	-43.96	Pass	V
2382.204	150	200	-54.81	-13.00	-41.81	Pass	V
3436.944	151	147	-55.78	-13.00	-42.78	Pass	V
4736.600	150	10	-58.72	-13.00	-45.72	Pass	V
5925.863	151	36	-55.60	-13.00	-42.60	Pass	V
7702.278	150	111	-58.69	-13.00	-45.69	Pass	V

	ŀ	HSUPA band	d II 9262 channel/18	352.4MHz(lowest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	152	59	-55.55	-13.00	-42.55	Pass	У Н
2506.624	150	20	-54.19	-13.00	-41.19	Pass	Н
3644.175	150	332	-55.12	-13.00	-42.12	Pass	Н
4933.497	151	97	-58.60	-13.00	-45.60	Pass	H /
5956.109	149	132	-56.18	-13.00	-43.18	Pass	н
8527.851	149	351	-56.40	-13.00	-43.40	Pass	Н
1573.189	150	70	-56.27	-13.00	-43.27	Pass	V
2263.960	150	151	-55.32	-13.00	-42.32	Pass	V
2839.613	150	109	-56.79	-13.00	-43.79	Pass	V
3616.451	150	21	-54.90	-13.00	-41.90	Pass	V
4582.422	149	109	-59.14	-13.00	-46.14	Pass	V
5940.967	150	360	-55.93	-13.00	-42.93	Pass	V















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	ŀ	HSUPA ban	d II 9400 channel/1	880MHz(m	niddle channel)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1557.252	151	229	-55.85	-13.00	-42.85	Pass	Н
2269.730	152	100	-53.83	-13.00	-40.83	Pass	Н
3096.325	150	26	-55.95	-13.00	-42.95	Pass	H
3854.077	149	351	-53.85	-13.00	-40.85	Pass	н (А
5420.742	150	359	-56.47	-13.00	-43.47	Pass	н
6886.154	150	240	-58.74	-13.00	-45.74	Pass	Н
1698.033	150	19	-55.95	-13.00	-42.95	Pass	V
2358.071	151	248	-54.18	-13.00	-41.18	Pass	V
3104.217	151	358	-55.61	-13.00	-42.61	Pass	V
3854.077	151	70	-56.00	-13.00	-43.00	Pass	V
5271.063	150	154	-57.28	-13.00	-44.28	Pass	V
6412.427	150	100	-57.84	-13.00	-44.84	Pass	V

	H	SUPA band	II 9538 channel/19	07.6MHz(ł	nighest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	152	87	-55.81	-13.00	-42.81	Pass	У н
2287.130	150	100	-55.16	-13.00	-42.16	Pass	Н
2935.153	149	89	-55.25	-13.00	-42.25	Pass	Н
3634.910	149	154	-56.34	-13.00	-43.34	Pass	H /
4490.048	150	121	-58.09	-13.00	-45.09	Pass	н 🌑
5971.290	150	76	-55.55	-13.00	-42.55	Pass	Н
1668.044	149	99	-55.16	-13.00	-42.16	Pass	V
2292.959	150	100	-54.60	-13.00	-41.60	Pass	V
3128.013	151	67	-54.08	-13.00	-41.08	Pass	V
4076.070	150	100	-56.47	-13.00	-43.47	Pass	V
5762.235	151	229	-54.48	-13.00	-41.48	Pass	V
8571.377	150	40	-56.05	-13.00	-43.05	Pass	V

Note:

1) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.













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PHOTOGRAPHS OF TEST SETUP

Test mode No.: WPC23



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)













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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00095402 for EUT external and internal photos.

*** End of Report ***

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