



Product : WisePad 2 Plus

Trade mark : BBPOS Model/Type reference : WPP23

Serial Number : N/A

Report Number : EED32J00113705

FCC ID : 2AB7X-WPP23

Date of Issue : Jul. 11, 2017 Test Standards : 47 CFR Part 2

47 CFR Part 22 subpart H

47 CFR Part 24 subpart E

Test result : PASS

Prepared for:

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Tsuen Wan, NT, Hong Kong

Prepared by:

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Check No.:2496595088







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2 Version

Version No.	Date	Description
00	Jul. 11, 2017	Original
0		













































































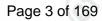












3	lest	Summary

	GSM 850, WCDMA(B	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(E	Band II)	(0)
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

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





















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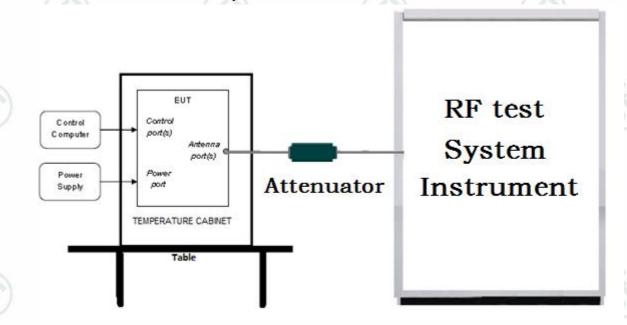




Report No. : EED32J00113705 **5 Test Requirement**

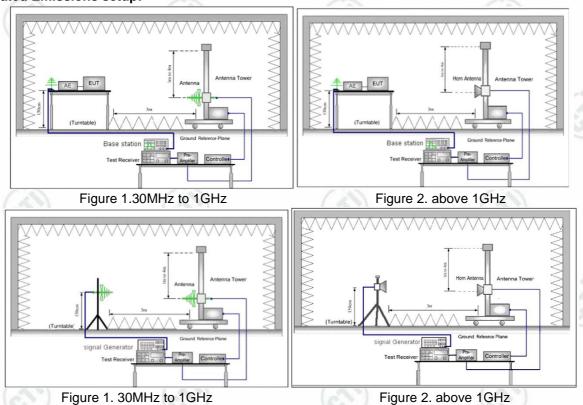
5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:







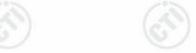


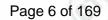






Report No. : EED32J00113705 **5.2 Test Environment**





Operating Environment:			
Temperature:	22°C	13	7.5
Humidity:	55% RH	(25)	(85)
Atmospheric Pressure:	1010mbar		

5.3 Test Condition

Test channel:

est channel:					
Test Mode	Ty/Dy	RF Channel			
i est wode	Tx/Rx	Low(L)	Middle(M)	High(H)	
	Tx	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	Tx	Channel 4132	Channel 4182	Channel 4233	
PA HSUPA	(824 MHz ~849 MHz)	826.4 MHz	836.4 MHz	846.6 MHz	
HSPA+(Down Link)	Rx (869 MHz ~894 MHz)	Channel 4357	Channel 4407	Channel 4458	
band [°] V		871.4 MHz	881.4 MHz	891.6 MHz	
	Tx	Channel 512	Channel 661	Channel 810	
GPRS/	(1850 MHz ~1910 MHz)	1850.2MHz	1880.0 MHz	1909.8 MHz	
EDGE1900	Rx (1930 MHz ~1990 MHz)	Channel 512	Channel 661	Channel 810	
		1930.2 MHz	1960.0 MHz	1989.8 MHz	
WCDMA/HSD	HSUPA (1850 MHz ~1910 MHz)	Channel 9262	Channel 9400	Channel 9538	
PA HSUPA		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 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:





st illoue.		
Test Mode	Test Modes description	
GSM/TM2	GSM system, GPRS, GMSK modulation	
GSM/TM3	GSM system, EDGE, 8PSK modulation	
Test Mode	Test Modes description	
UMTS/TM1	WCDMA system, QPSK modulation	
UMTS/TM2	HSDPA system, QPSK modulation	
UMTS/TM3	HSUPA system, QPSK modulation	























































































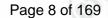














6 General Information

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 Plus		
Mode No.(EUT):	WPP23		
Trade Mark:	BBPOS	(3)	
EUT Supports Radios application:	GPRS/EDGE 850/1900 WCDMA/HSDPA /HSUPA Band V/Band II	(6)	
Firmware version of the sample:	0.06.01.03		
Hardware version of the sample:	V1.0.0		
Power Supply:	DC 3.7V by Battery DC 5V by USB port		
Battery	Li-polymer 3.7V, 1300mAh		
Sample Received Date:	Jun. 7, 2017	(67)	
Sample tested Date:	Jun. 7, 2017 to Jul. 5, 2017		

6.3 Product Specification subjective to this standard

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		
GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation		
Portable		
Monopole	(3)	
GSM850MHz: -2dBi GSM1900MHz: 0dBi WCDMA1900MHz: 0dBi WCDMA850MHz: -2dBi	6	
DC 3.7V by Battery DC 5V by USB port		
	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 GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation Portable Monopole GSM850MHz: -2dBi GSM1900MHz: 0dBi WCDMA1900MHz: 0dBi WCDMA850MHz: -2dBi DC 3.7V by Battery	

6.4 Description of Support Units

The EUT has been tested independently.













Test Facility 6.5

Test location

The test site a is located on Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China. Test site at Centre Testing International Group Co., Ltd has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

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.

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions None.

6.8 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE power, conducted	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
3	Dadiated Spurious 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%
	(0).)	100



Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com









7 Equipment List



	(Communication	RF test syster	n	
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		01-12-2017	01-11-2018
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	(4)	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	(A)	04-01-2017	03-31-2018































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	Radiated Spi	urious 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	<u> </u>	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		01-12-2017	01-11-2018
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001	(C.)	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





















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 2.1046(a)/Part 22.913(a)/ Part 24.232(c)	TIA-603-E &KDB 971168 D01v02r02	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix G)
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 H)





















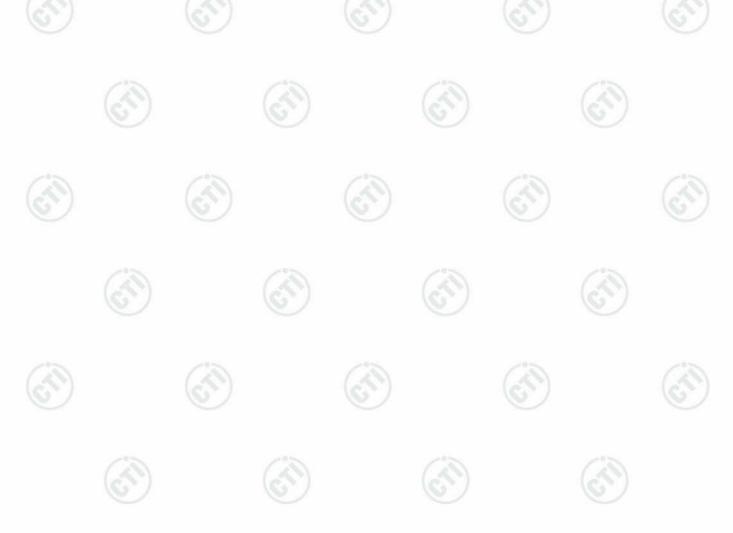
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Appendix A)RF Power Output

Test Requirement:	Part 2.1046(a)						
Test Method:	TIA-603-E-2010	TIA-603-E-2016 Clause 2.2.1					
Test Setup:	Refer to section	Refer to section 5 for details					
	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:	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 transmitters.						
Instruments Used:	Refer to section 7 for details						
Test Results:	Pass	(1)	(3)				





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Test Data:					J		
Test Band	Test Mode	Test Channel	Test Slot	Measured(dbm)	Limit (dbm)	Verdict	
(6/1)			Slot1	32.39	38.5	PASS	
			Slot2	32.10	38.5	PASS	
		LCH	Slot3	30.43	38.5	PASS	
(1)			Slot4	29.41	38.5	PASS	
			Slot1	32.69	38.5	PASS	
COMOSO			Slot2	32.61	38.5	PASS	
GSM850	GSM/TM2	MCH	Slot3	30.78	38.5	PASS	
			Slot4	29.73	38.5	PASS	
			Slot1	32.68	38.5	PASS	
(3)		(61)		Slot2	32.54	38.5	PASS
		HCH	Slot3	30.76	38.5	PASS	
			Slot4	29.77	38.5	PASS	
Test Band	Test Mode	Test Channel	Test Slot	Measured(dbm)	Limit (dbm)	Verdict	
		LCH	Slot1	26.64	38.5	PASS	
			Slot2	26.97	38.5	PASS	
			Slot3	26.93	38.5	PASS	
			Slot4	26.90	38.5	PASS	
			Slot1	26.57	38.5	PASS	
			Slot2	26.91	38.5	PASS	
GSM850	GSM/TM3	MCH	Slot3	26.86	38.5	PASS	
(2)			Slot4	26.83	38.5	PASS	
			Slot1	26.80	38.5	PASS	
			Slot2	27.06	38.5	PASS	
		HCH	Slot3	27.05	38.5	PASS	
0.			Slot4	27.02	38.5	PASS	













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Test Band	Test Mode	Test Channel	Test Slot	Measured(dbm)	Limit (dbm)	Verdict	
0,1			Slot1	30.47	33	PASS	
			Slot2	30.52	33	PASS	
		LCH	Slot3	30.45	33	PASS	
)			Slot4	30.44	33	PASS	
			Slot1	30.35	33	PASS	
	(3)		Slot2	30.36	33	PASS	
GSM1900	GSM/TM2	MCH	Slot3	30.34	33	PASS	
			Slot4	30.29	33	PASS	
			Slot1	30.56	33	PASS	
)		(0,)		Slot2	30.56	33	PASS
		НСН	Slot3	30.54	33	PASS	
			Slot4	30.49	33	PASS	
Test Band	Test Mode	Test Channel	Test Slot	Measured(dbm)	Limit (dbm)	Verdict	
			Slot1	26.64	33	PASS	
			Slot2	25.95	33	PASS	
		LCH	Slot3	25.94	33	PASS	
			Slot4	25.90	33	PASS	
(3)			Slot1	26.57	33	PASS	
			Slot2	25.82	33	PASS	
GSM1900	GSM/TM3	MCH	Slot3	25.82	33	PASS	
			Slot4	25.82	33	PASS	
			Slot1	25.79	33	PASS	
-15			Slot2	26.07	33	PASS	
(6,41)		HCH	Slot3	26.11	33	PASS	
	0		Slot4	26.05			













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Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH	23.30	38.5	PASS
WCDMA850	UMTS/TM1	MCH	23.80	38.5	PASS
		НСН	23.10	38.5	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH_SubTest-1	23.28	38.5	PASS
		LCH_SubTest-2	22.71	38.5	PASS
		LCH_SubTest-3	22.34	38.5	PASS
		LCH_SubTest-4	22.08	38.5	PASS
	(31)	MCH_SubTest-1	22.78	38.5	PASS
WORLANDS	UMTS/TM2	MCH_SubTest-2	22.18	38.5	PASS
WCDMA850		MCH_SubTest-3	22.86	38.5	PASS
		MCH_SubTest-4	22.52	38.5	PASS
		HCH_SubTest-1	22.10	38.5	PASS
		HCH_SubTest-2	22.52	38.5	PASS
	(61)	HCH_SubTest-3	22.17	38.5	PASS
		HCH_SubTest-4	22.90	38.5	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH_SubTest-1	22.81	38.5	PASS
		LCH_SubTest-2	23.10	38.5	PASS
		LCH_SubTest-3	22.28	38.5	PASS
	0	LCH_SubTest-4	22.04	38.5	PASS
		LCH_SubTest-5	22.80	38.5	PASS
WCDMA850 UMTS/1	UMTS/TM3	MCH_SubTest-1	22.26	38.5	PASS
		MCH_SubTest-2	22.48	38.5	PASS
		MCH_SubTest-3	22.89	38.5	PASS
		MCH_SubTest-4	22.48	38.5	PASS
		MCH_SubTest-5	22.25	38.5	PASS



Page 17 of 169 Report No.: EED32J00113705 22.52 HCH_SubTest-1 38.5 **PASS** 22.74 **PASS** HCH_SubTest-2 38.5 22.17 **PASS** HCH_SubTest-3 38.5 22.72 HCH_SubTest-4 38.5 **PASS** 22.57 38.5 **PASS** HCH_SubTest-5

.")		(&)			(63)
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH	23.62	33	PASS
WCDMA1900	UMTS/TM1	MCH	22.74	33	PASS
		НСН	22.31	33	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH_SubTest-1	22.51	33	PASS
		LCH_SubTest-2	22.80	33	PASS
		LCH_SubTest-3	22.48	33	PASS
	UMTS/TM2	LCH_SubTest-4	22.21	33	PASS
		MCH_SubTest-1	22.44	33	PASS
WCDMA1900		MCH_SubTest-2	22.84	33	PASS
		MCH_SubTest-3	22.54	33	PASS
(5)		MCH_SubTest-4	22.29	33	PASS
(617)		HCH_SubTest-1	22.11	33	PASS
		HCH_SubTest-2	22.50	33	PASS
	75	HCH_SubTest-3	22.59	33	PASS
")	(67)	HCH_SubTest-4	20.92	33	PASS
Test Band	Test Mode	Test Channel	Measured(dbm)	Limit (dbm)	Verdict
		LCH_SubTest-1	22.86	33	PASS
0		LCH_SubTest-2	22.10	33	PASS
WCDMA1900	UMTS/TM3	LCH_SubTest-3	22.57	33	PASS
		LCH_SubTest-4	22.09	33	PASS
/		LCH_SubTest-5	22.75	33	PASS



Page 18 of 169 Report No.: EED32J00113705 22.80 33 MCH_SubTest-1 **PASS** 21.99 33 **PASS** MCH_SubTest-2 22.38 33 **PASS** MCH_SubTest-3 22.12 33 MCH_SubTest-4 **PASS** 22.73 33 MCH_SubTest-5 **PASS** 22.42 33 HCH_SubTest-1 **PASS** 22.71 33 HCH_SubTest-2 **PASS** 22.13 33 **PASS** HCH_SubTest-3 21.76 33 HCH_SubTest-4 **PASS** 22.33 33 HCH_SubTest-5 **PASS**







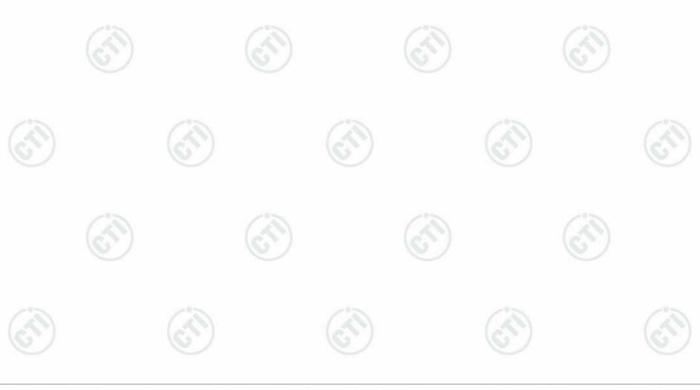
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Appendix B)Peak-to-Average Ratio

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	2.67	13	PASS
		MCH	2.67	13	PASS
		HCH	2.67	13	PASS
GSM1900		LCH	5.36	13	PASS
	GSM/TM3	MCH	5.50	13	PASS
		HCH	5.58	13	PASS

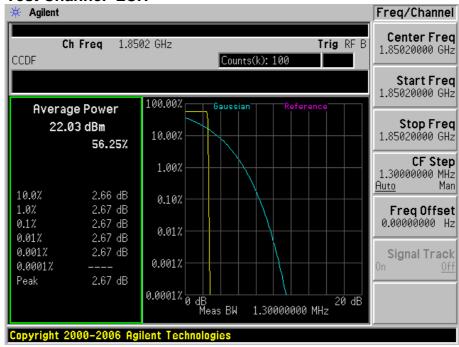




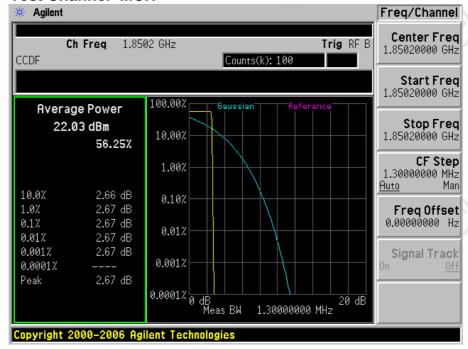
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1.1 Test Mode=GSM/TM2

1.1.1.1 Test Channel=LCH



1.1.1.2 Test Channel=MCH

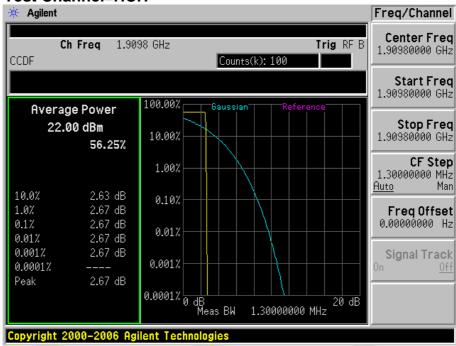








1.1.1.3 Test Channel=HCH



1.2 Test Mode=GSM/TM3

1.2.1.1 Test Channel=LCH







1.2.1.2 Test Channel=MCH



1.2.1.3 Test Channel=HCH







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Test Band	Test Mode	Test Channel	Test Channel Measured(db)		Verdict
(6,1)		LCH	2.82	13	PASS
WCDMA1900	UMTS/TM1	мсн	MCH 2.78		PASS
		HCH	2.75	13	PASS
Test Band	Test Mode	Test Channel	Measured(db)	Limit (db)	Verdict
		LCH	3.16	13	PASS
WCDMA1900	UMTS/TM2	мсн	3.26	13	PASS
		НСН	3.07	13	PASS
Test Band	Test Mode	Test Channel	Measured(db)	Limit (db)	Verdict
	(0)	LCH	4.39	13	PASS
WCDMA1900	UMTS/TM3	MCH	MCH 4.45		PASS
		НСН	4.46	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



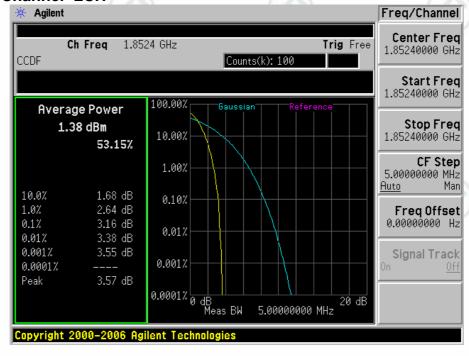


1.1.1.3 Test Channel=HCH



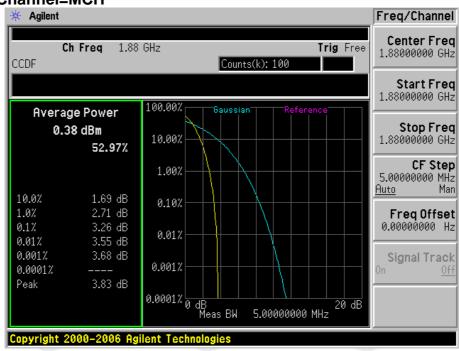
1.1.2 Test Mode=UMTS/TM2

1.1.2.1 Test Channel=LCH

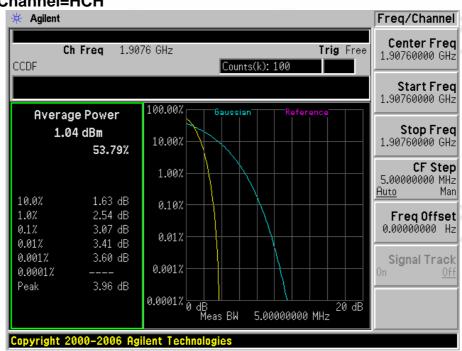




1.1.2.2 Test Channel=MCH



1.1.2.3 Test Channel=HCH

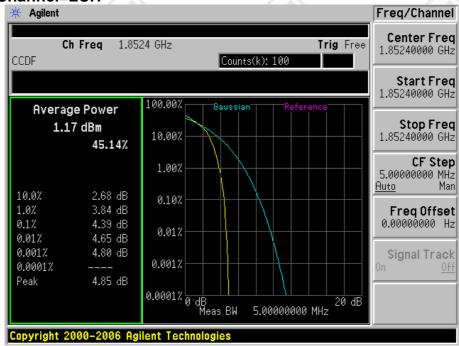






1.1.3 Test Mode=UMTS/TM3

1.1.3.1 Test Channel=LCH



1.1.3.2 Test Channel=MCH



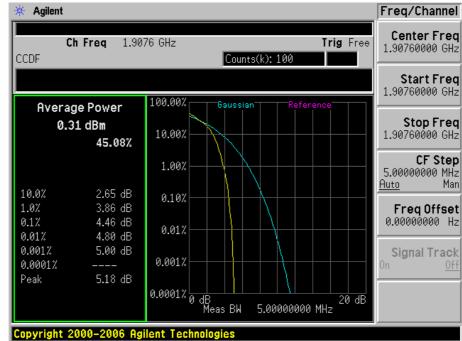






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1.1.3.3 Test Channel=HCH























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)	Verdict
GSM850		LCH	243.46	312.76	PASS
	GSM/TM2	MCH	243.35	312.63	PASS
	/15	нсн	243.93	313.33	PASS
		LCH	249.81	315.57	PASS
	GSM/TM3	мсн	251.42	306.15	PASS
		НСН	249.78	313.74	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
		LCH	243.89	315.82	PASS
)	GSM/TM2	MCH	247.57	314.41	PASS
GSM1900		нсн	244.65	316.73	PASS
		LCH	249.69	313.17	PASS
	GSM/TM3	MCH	251.57	320.76	PASS
		НСН	250.23	310.40	PASS

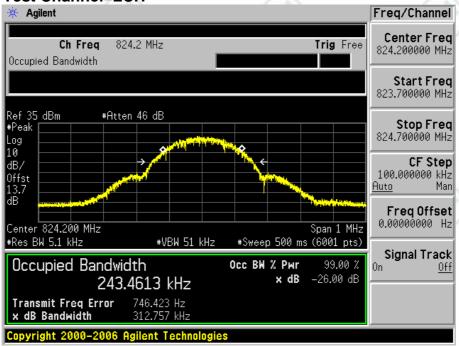


Report No. : EED32J00113705 **1.1 Test GSM 850**

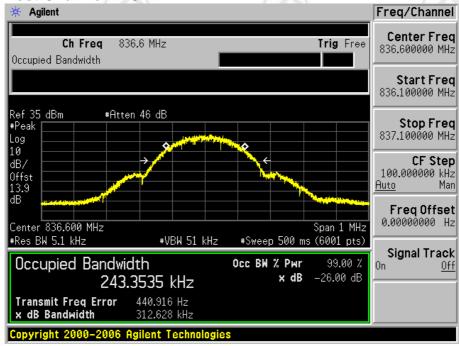
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1.1.1 Test Mode=GSM/TM2

1.1.1.1 Test Channel=LCH



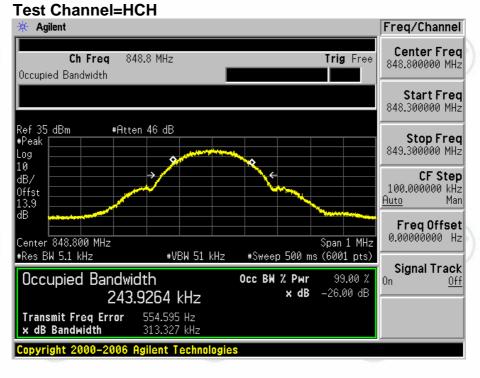
1.1.1.2 Test Channel=MCH





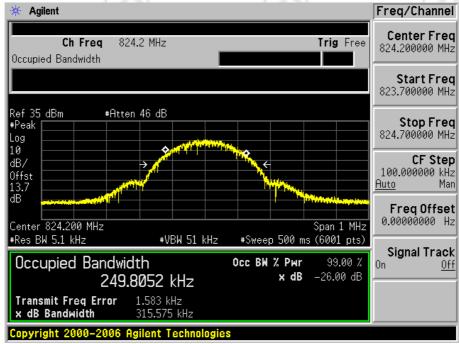


1.1.1.3



1.1.2 Test Mode=GSM/TM3

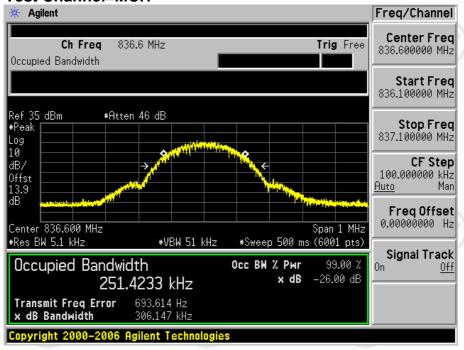
1.1.2.1 Test Channel=LCH



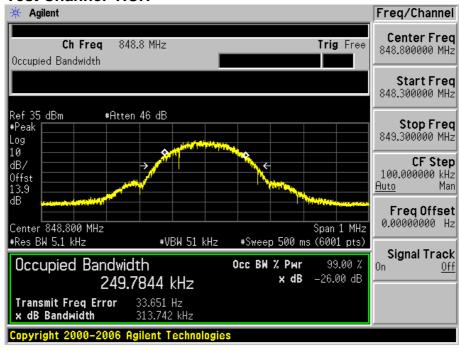




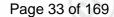
1.1.2.2 Test Channel=MCH



1.1.2.3 Test Channel=HCH





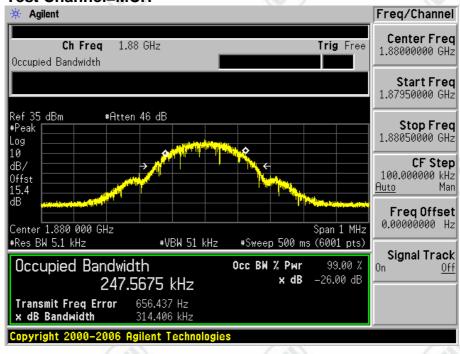




- 1.2 Test Band=GSM1900
- 1.2.1 Test Mode=GSM/TM2
- 1.2.1.1 Test Channel=LCH



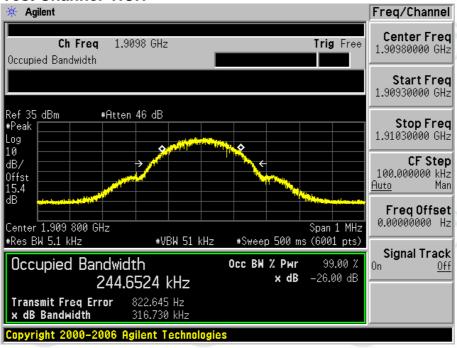
1.2.1.2 Test Channel=MCH





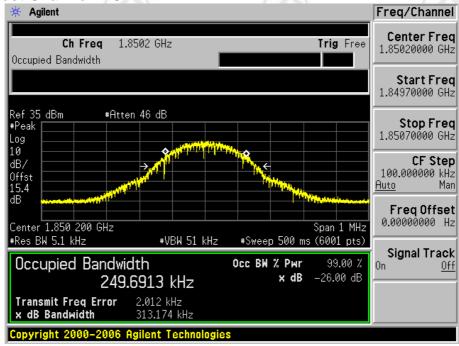


1.2.1.3 Test Channel=HCH



1.2.2 Test Mode=GSM/TM3

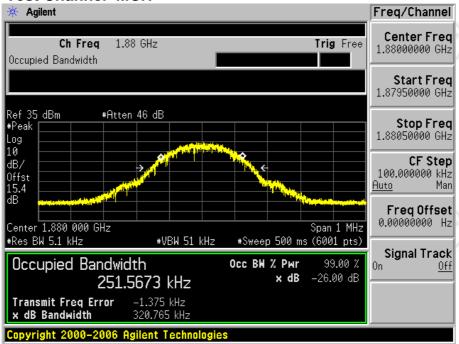
1.2.2.1 Test Channel=LCH



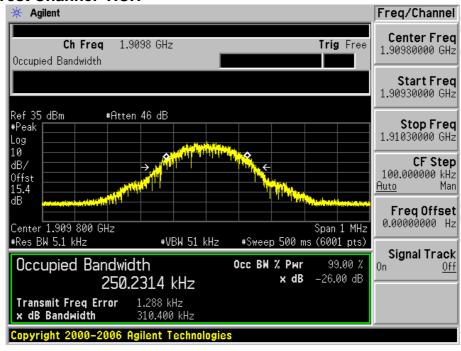




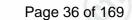
1.2.2.2 Test Channel=MCH



1.2.2.3 Test Channel=HCH









Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA850	UMTS/TM1	LCH	4061.8	4664	PASS
		MCH	4077.4	4675	PASS
		НСН	4104.6	4662	PASS
WCDMA850	UMTS/TM2	LCH	4069.3	4660	PASS
		MCH	4087.4	4672	PASS
		HCH	4070.7	4633	PASS
WCDMA850	UMTS/TM3	LCH	4045.0	4602	PASS
		MCH	4050.9	4631	PASS
		HCH	4055.1	4650	PASS

7.3	1 -00			1.000	1 7 7 1
Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA1900 U	UMTS/TM1	LCH	4086.7	4632	PASS
		МСН	4080.2	4697	PASS
		НСН	4078.3	4686	PASS
WCDMA1900 U	UMTS/TM2	LCH	4060.4	4655	PASS
		МСН	4065.3	4656	PASS
		НСН	4055.2	4648	PASS
WCDMA1900	UMTS/TM3	LCH	4073.5	4646	PASS
		MCH	4055.4	4632	PASS
		нсн	4051.7	4633	PASS





























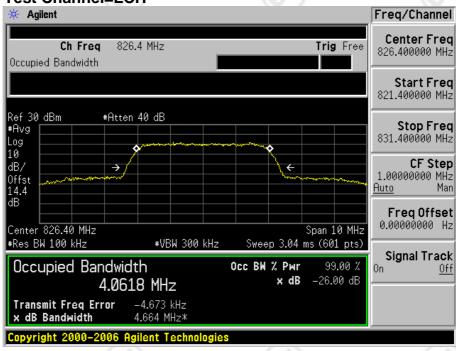


2 For WCDMA

2.1 Test Band=WCDMA850

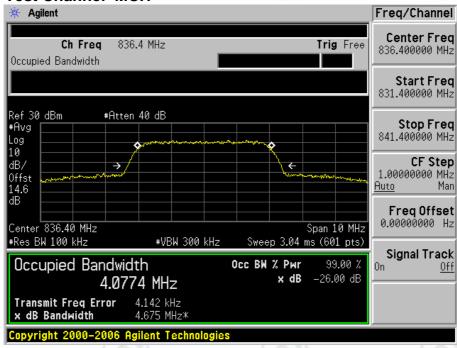
2.1.1 Test Mode=UMTS/TM1

2.1.1.1 Test Channel=LCH



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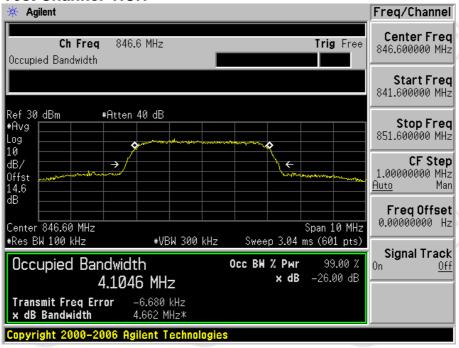
2.1.1.2 Test Channel=MCH





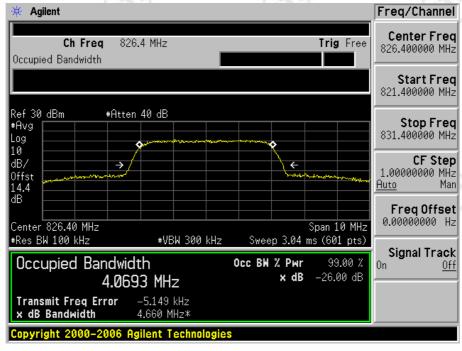


2.1.1.3 Test Channel=HCH



2.1.2 Test Mode=UMTS/TM2

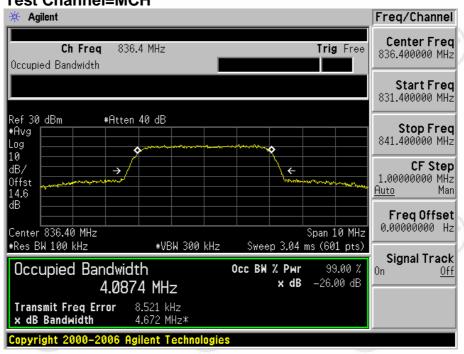
2.1.2.1 Test Channel=LCH



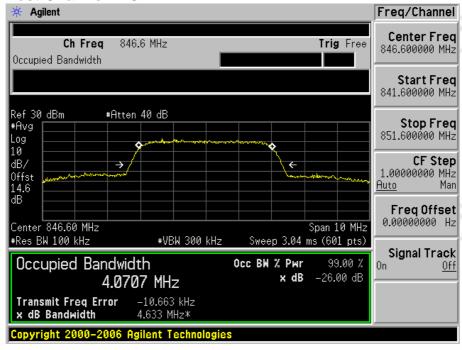




2.1.2.2 Test Channel=MCH



2.1.2.3 Test Channel=HCH

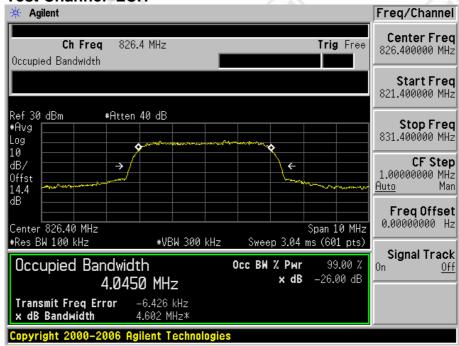




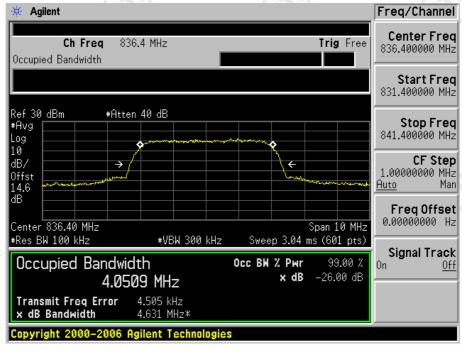


2.1.3 Test Mode=UMTS/TM3

2.1.3.1 Test Channel=LCH

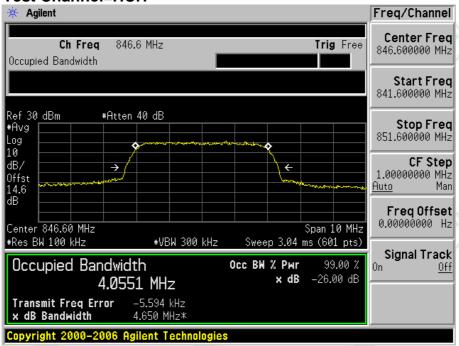


2.1.3.2 Test Channel=MCH

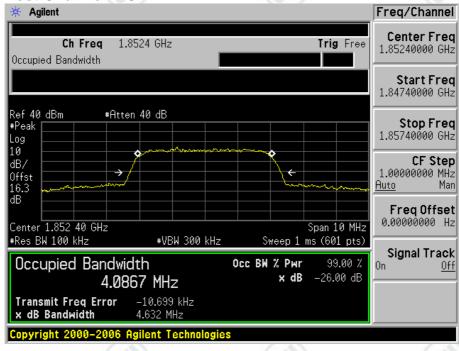




2.1.3.3 Test Channel=HCH

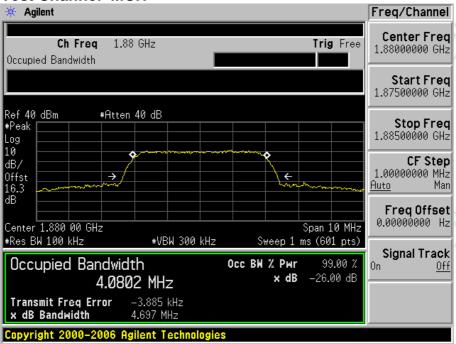


- 2.2 Test Band=WCDMA1900
- 2.2.1 Test Mode=UMTS/TM1
- 2.2.1.1 Test Channel=LCH

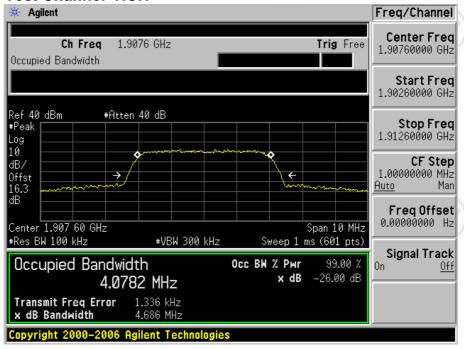




2.2.1.2 Test Channel=MCH



2.2.1.3 Test Channel=HCH

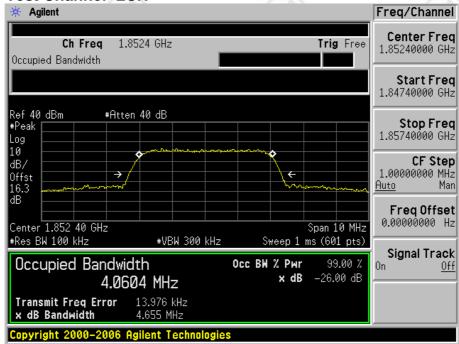




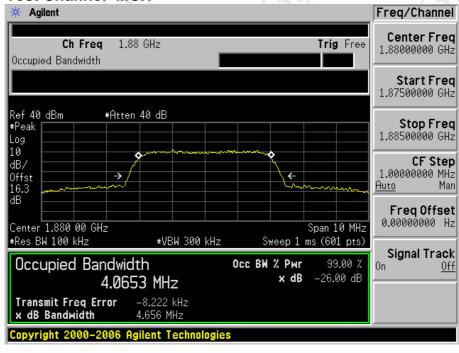


2.2.2 Test Mode=UMTS/TM2

2.2.2.1 Test Channel=LCH

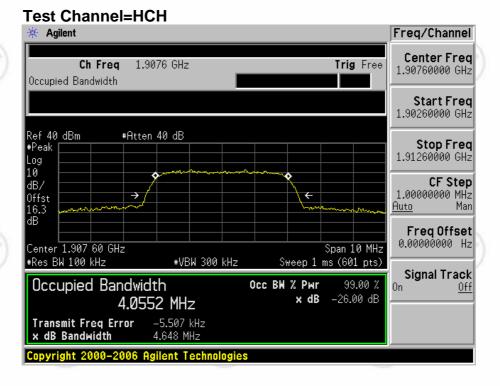


2.2.2.2 Test Channel=MCH



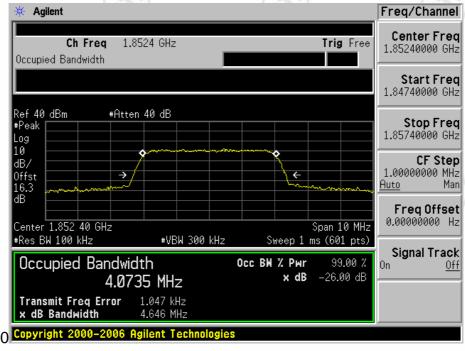


2.2.2.3



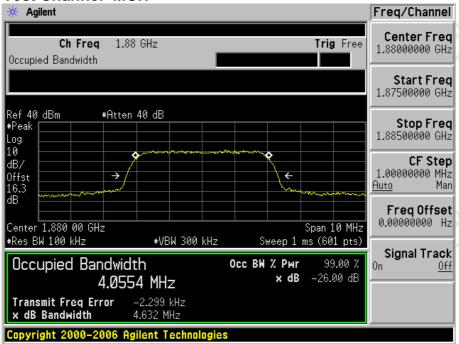
2.2.3 Test Mode=UMTS/TM3

2.2.3.1 Test Channel=LCH

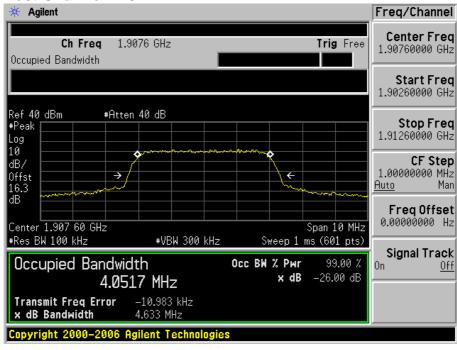




2.2.3.2 Test Channel=MCH



2.2.3.3 Test Channel=HCH







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Appendix D)Band Edges Compliance

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	(0,	(6,)	



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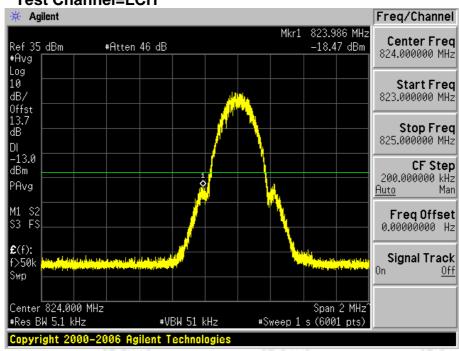
Test result:

1 For GSM

1.1 Test Band=GSM850

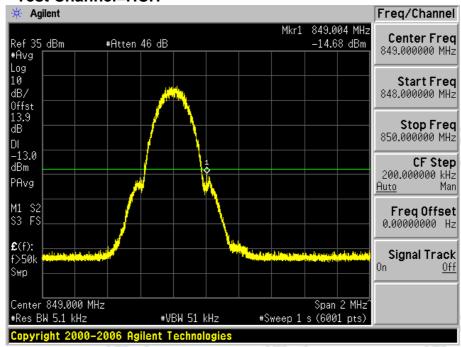
1.1.1 Test Mode=GSM/TM2

1.1.1.1 Test Channel=LCH

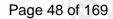


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1.1.1.2 Test Channel=HCH



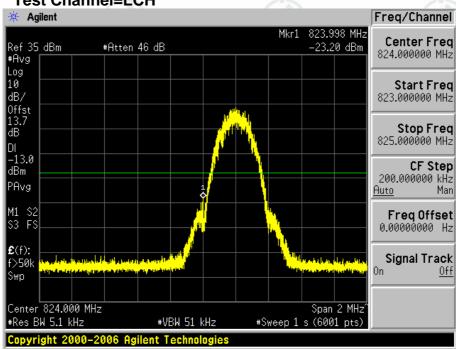




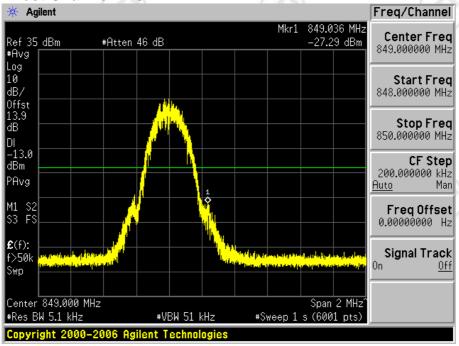


1.1.2 Test Mode=GSM/TM3

1.1.2.1 Test Channel=LCH



1.1.2.2 Test Channel=HCH



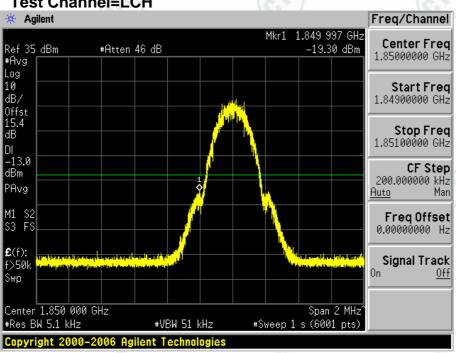




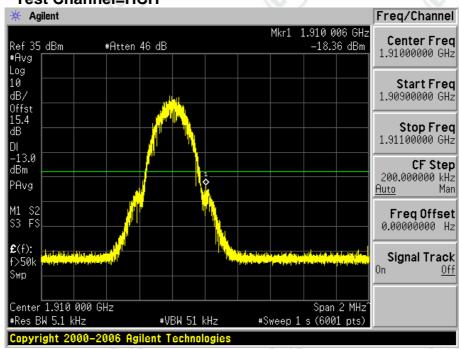


1.2 Test Band=GSM1900
1.2.1 Test Mode=GSM/TM2

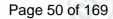
1.2.1.1 Test Channel=LCH



1.2.1.2 Test Channel=HCH



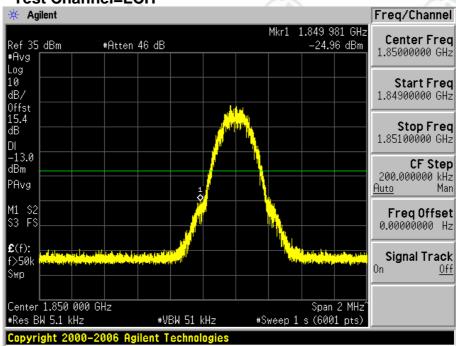




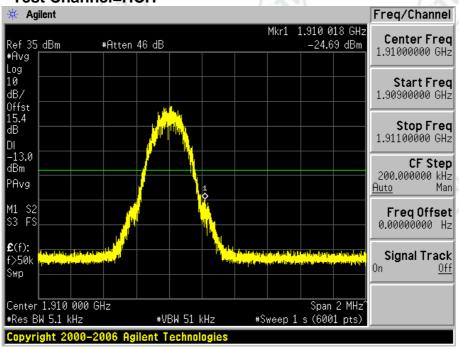


1.2.2 Test Mode=GSM/TM3

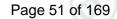
1.2.2.1 Test Channel=LCH



1.2.2.2 Test Channel=HCH









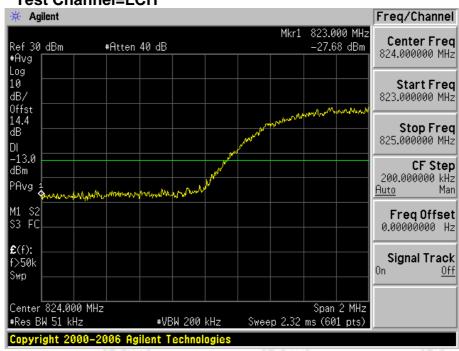
Report No. . EED32300113703

2 For WCDMA

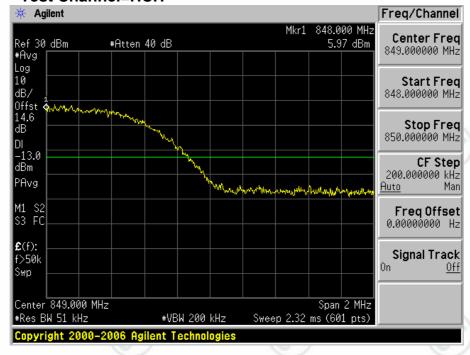
2.1 Test Band=WCDMA850

2.1.1 Test Mode=UMTS/TM1

2.1.1.1 Test Channel=LCH



2.1.1.2 Test Channel=HCH



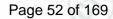










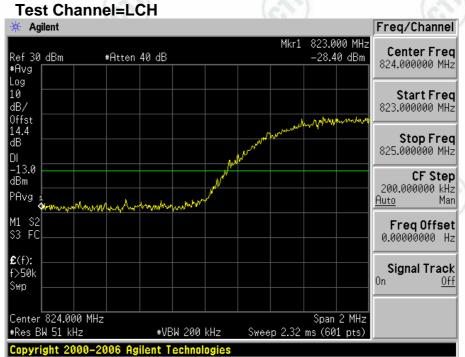




2.1.2.1

Report No.: EED32J00113705

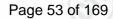
2.1.2 Test Mode=UMTS/TM2



2.1.2.2 Test Channel=HCH



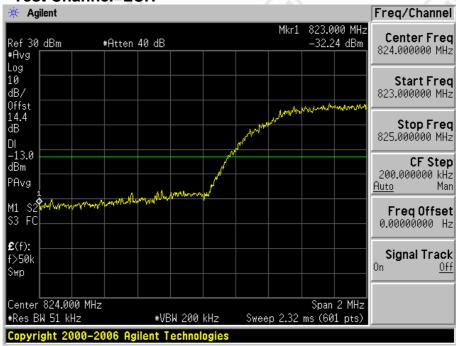




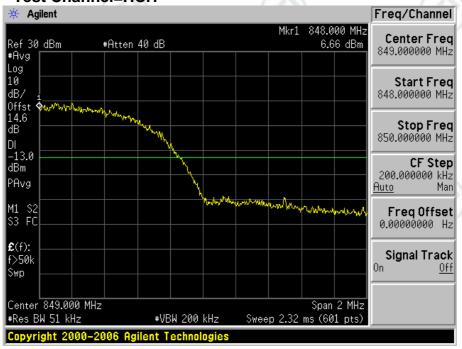


2.1.3 Test Mode=UMTS/TM3

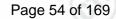
2.1.3.1 Test Channel=LCH



2.1.3.2 Test Channel=HCH



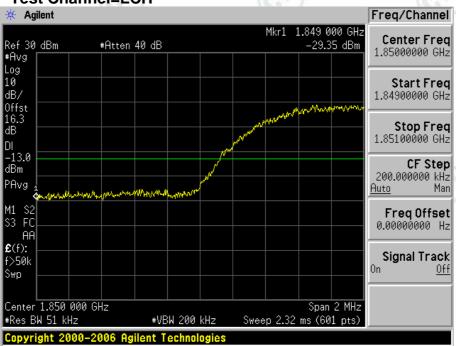




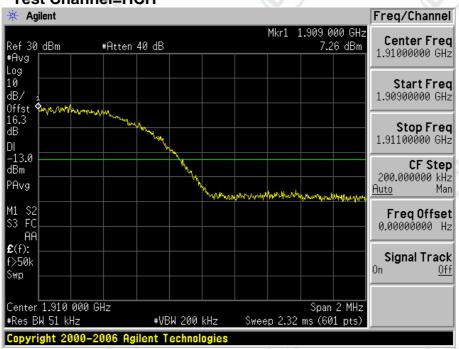


2.2 Test Band=WCDMA1900 2.2.1 Test Mode=UMTSTM1

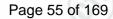
2.2.1.1 Test Channel=LCH



2.2.1.2 Test Channel=HCH



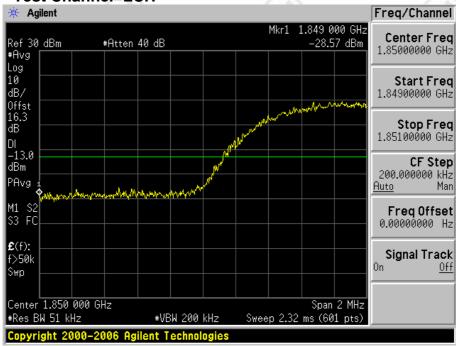




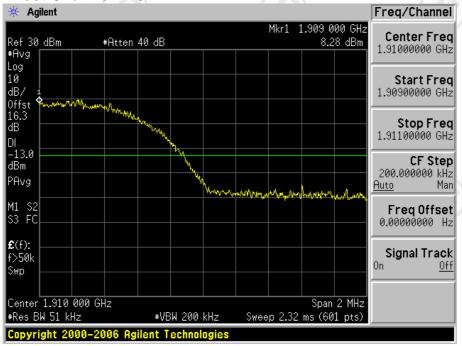


2.2.2 Test Mode=UMTS/TM2

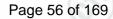
2.2.2.1 Test Channel=LCH



2.2.2.2 Test Channel=HCH



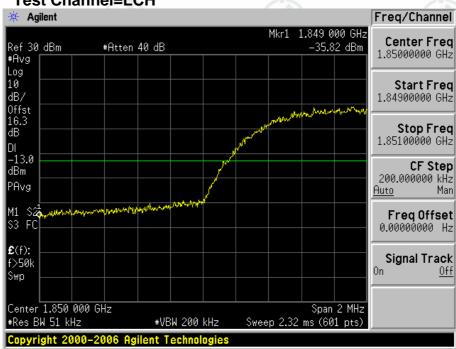




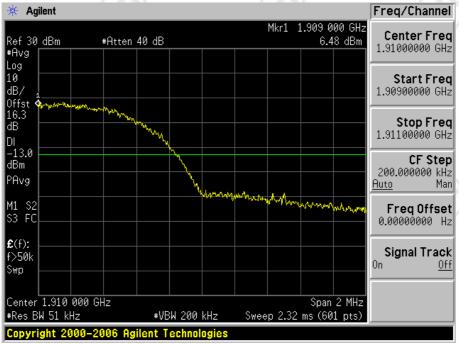


2.2.3 Test Mode=UMTS/TM3

2.2.3.1 Test Channel=LCH



2.2.3.2 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



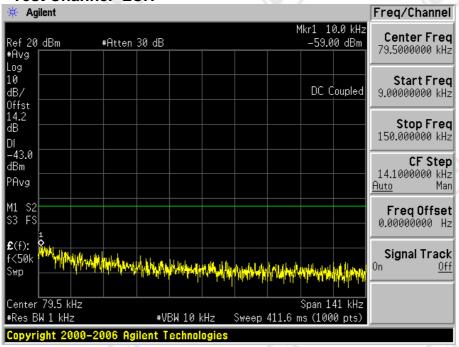


1 For GSM

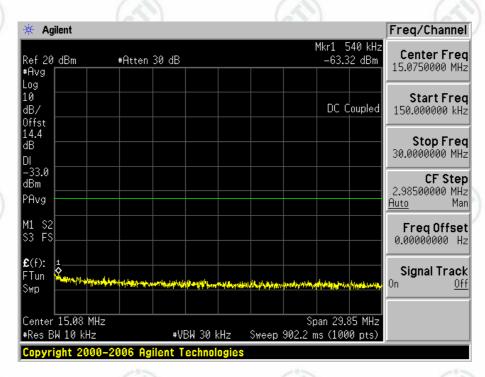
1.1 Test Band=GSM850

1.1.1 Test Mode=GSM/TM2

1.1.1.1 Test Channel=LCH



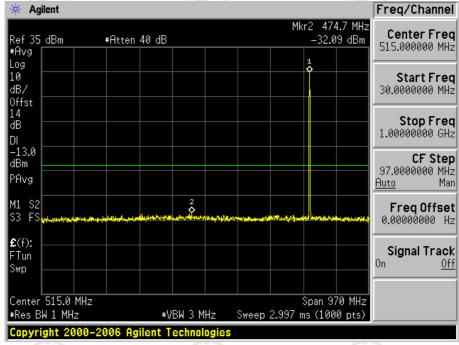
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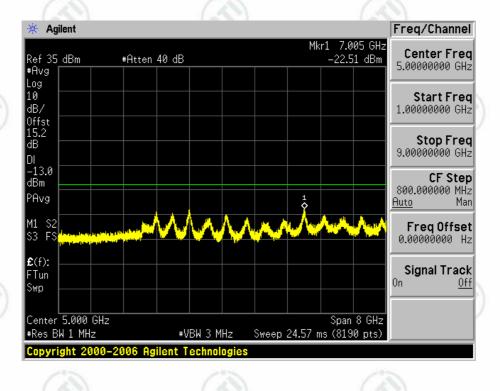


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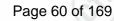










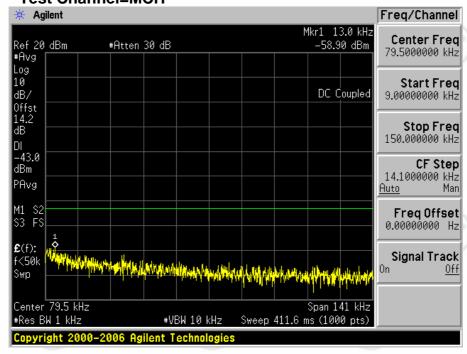


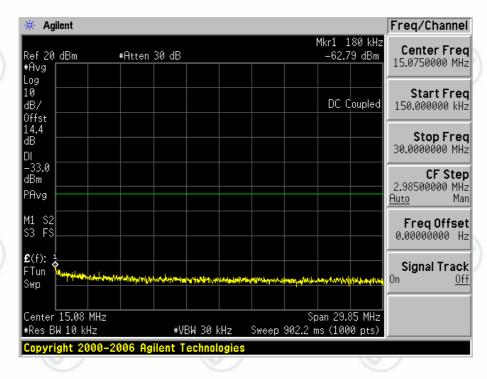


1.1.1.2

Report No.: EED32J00113705

Test Channel=MCH











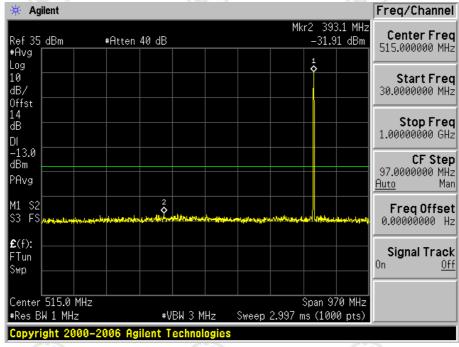


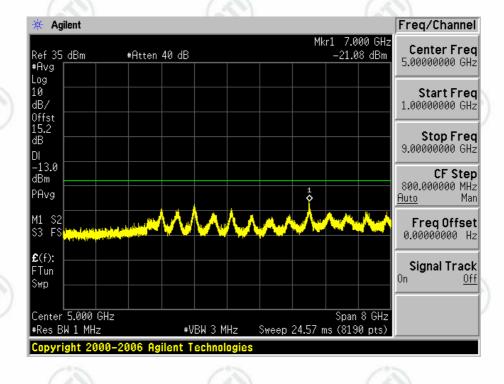






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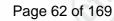










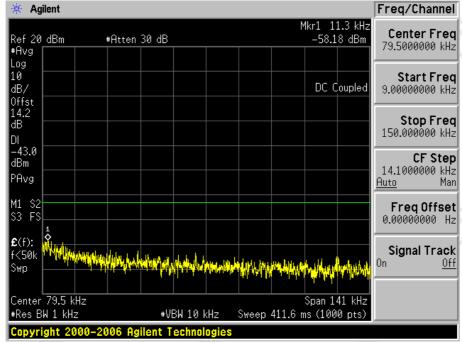


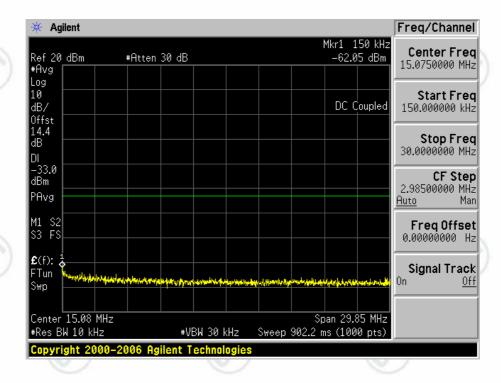
























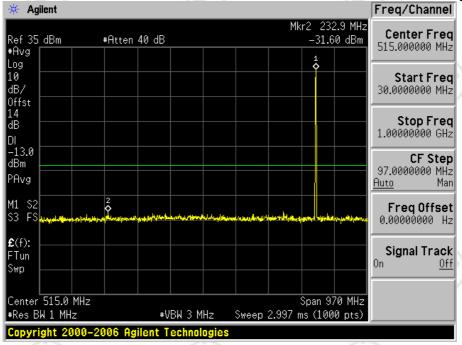


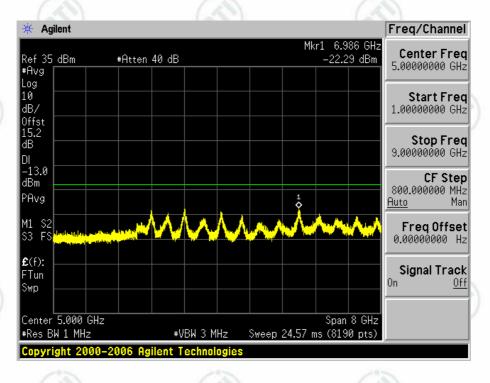






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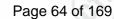








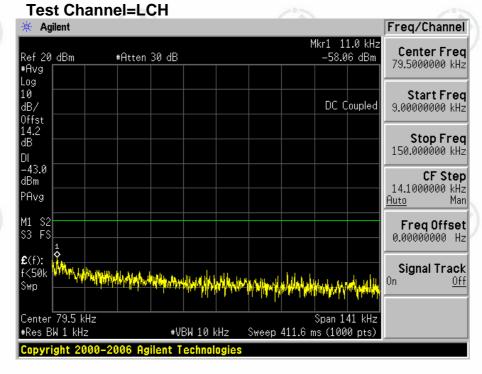


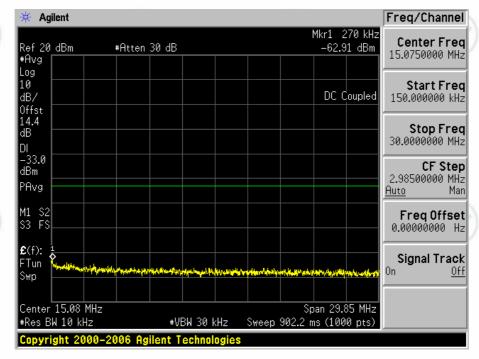




1.1.2.1

1.1.2 Test Mode=GSM/TM3



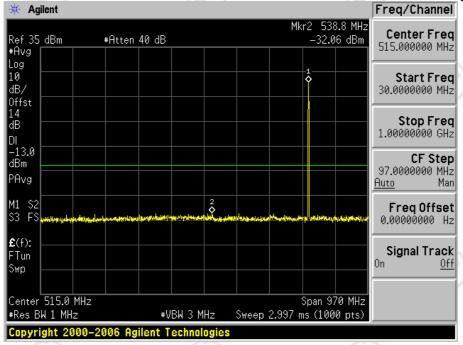


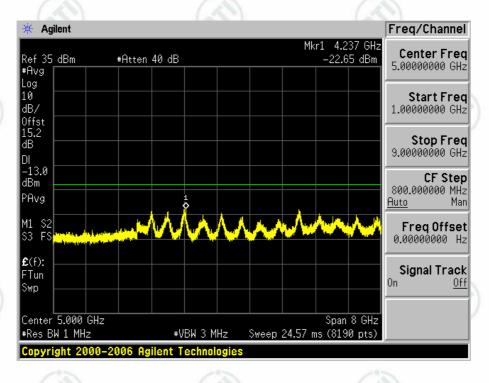


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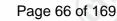










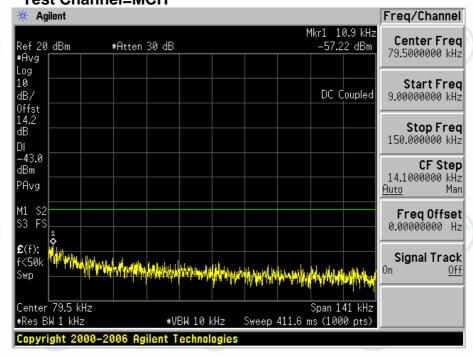


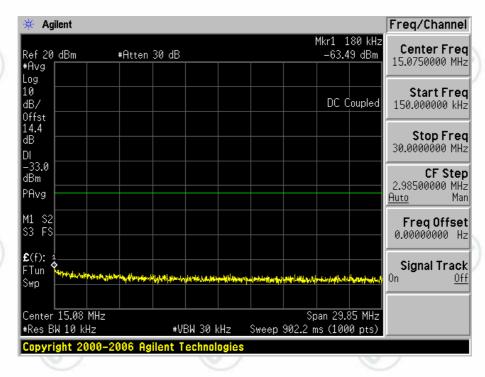


1.1.2.2

Report No.: EED32J00113705

Test Channel=MCH



















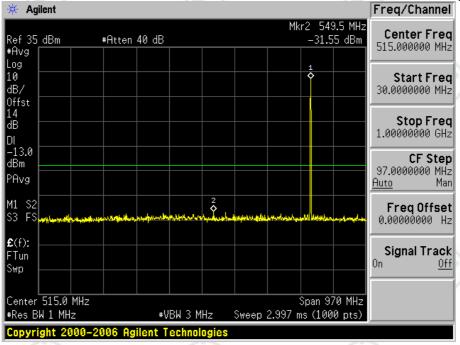


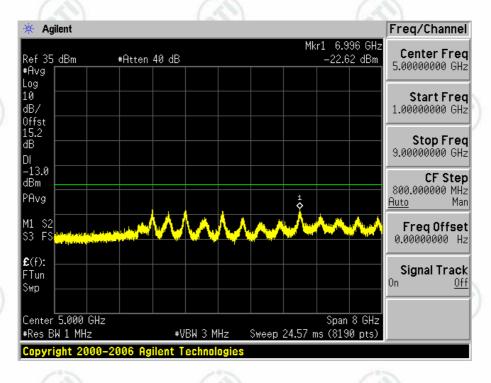






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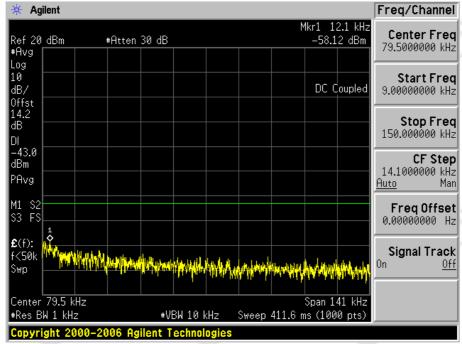


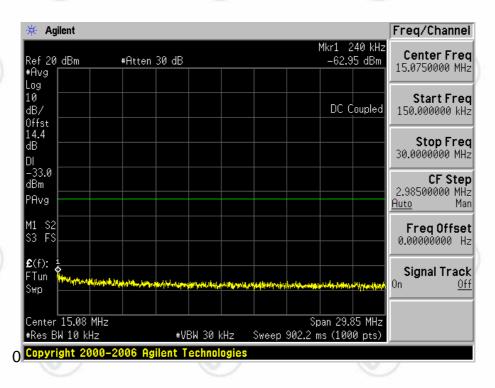






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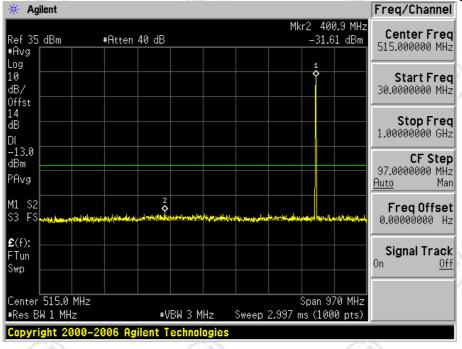


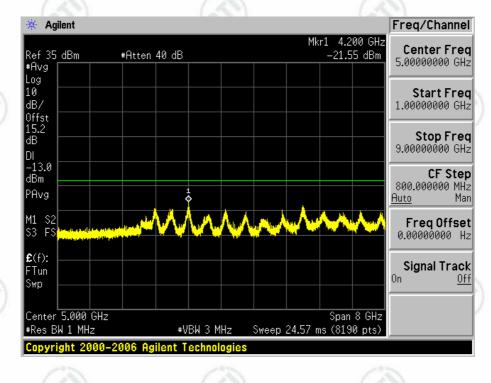




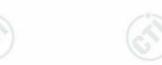


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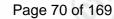






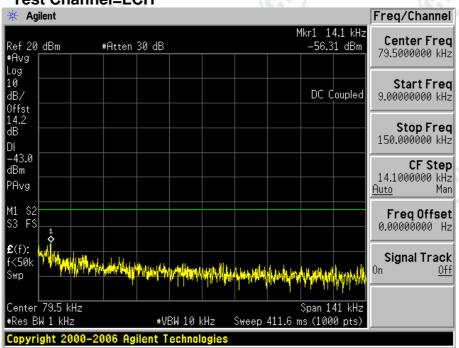


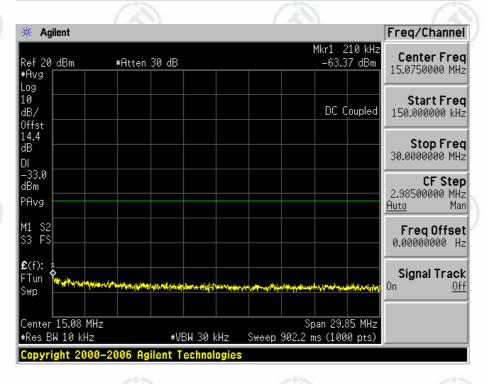






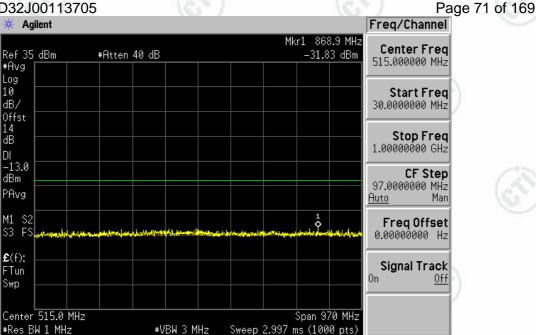
- 1.2 Test Band=GSM1900
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- 1.2.1.1 Test Channel=LCH

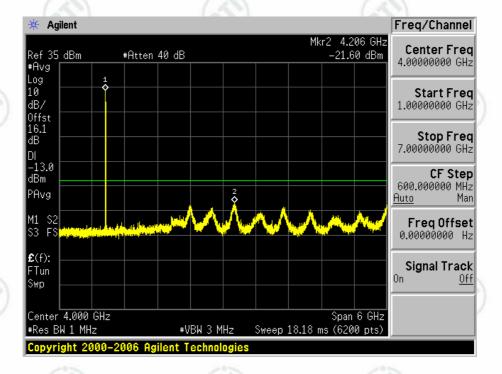








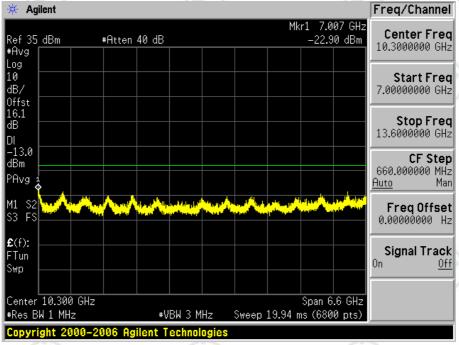


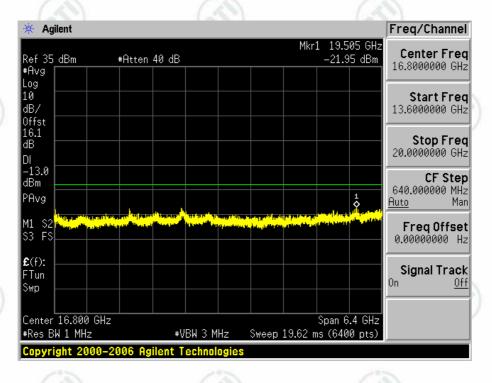






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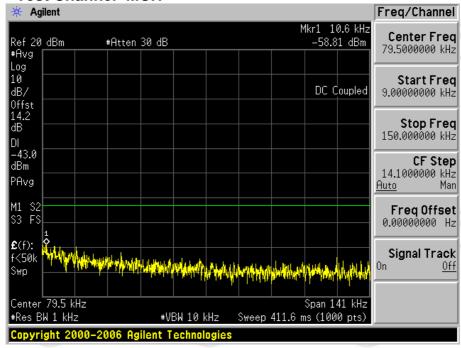


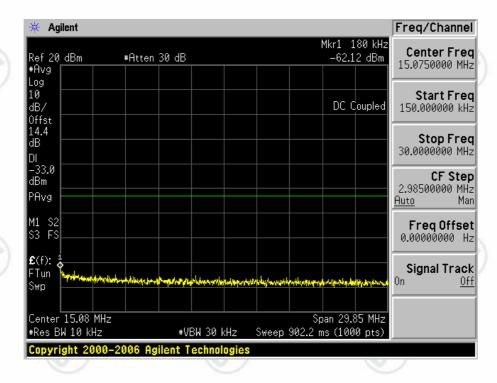






1.2.1.2 Test Channel=MCH









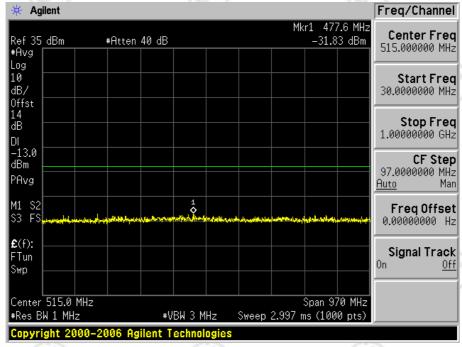


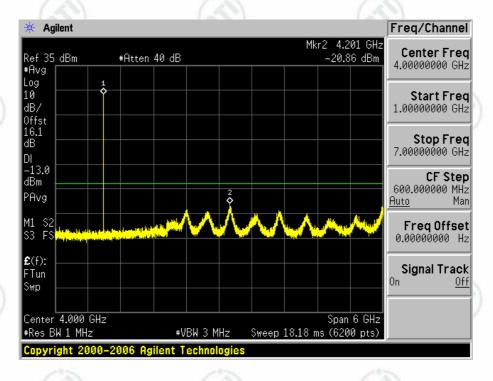






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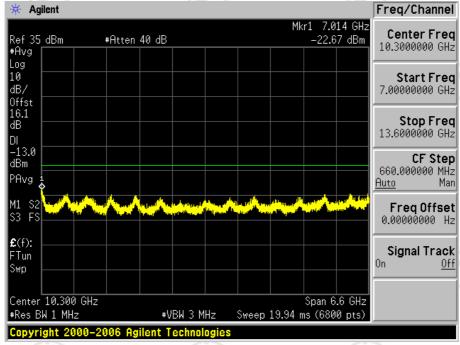


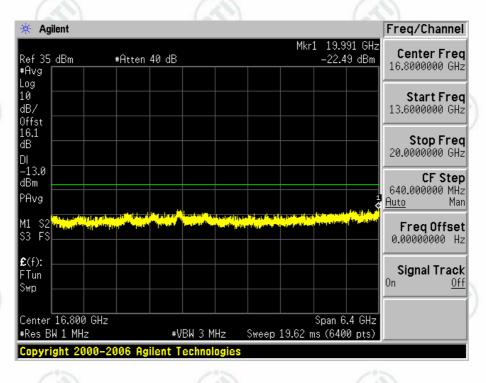






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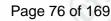






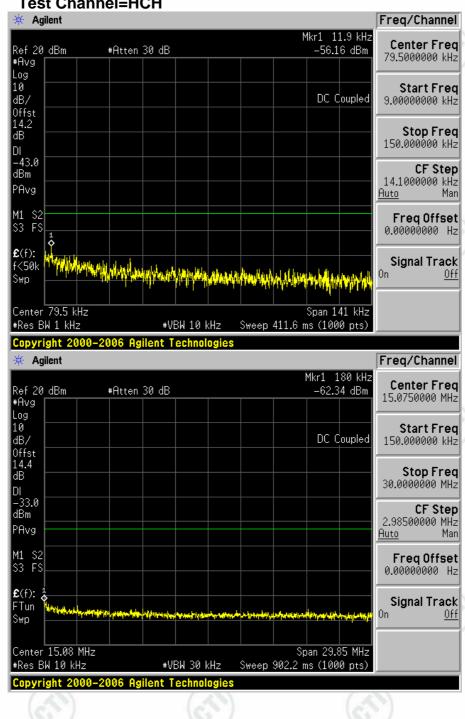








1.2.1.3 Test Channel=HCH







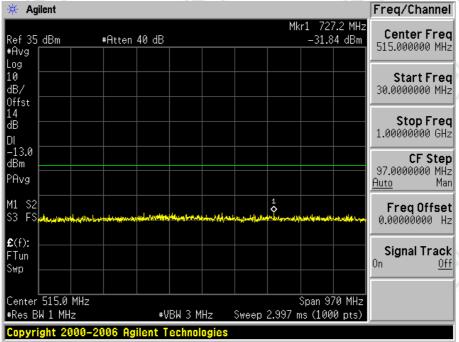


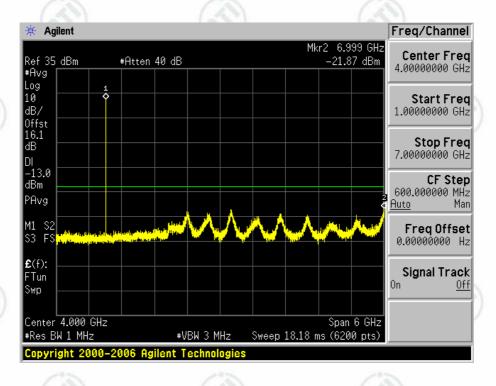






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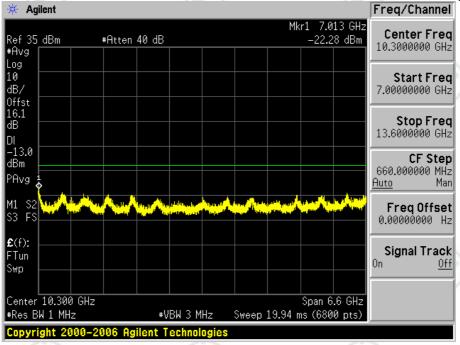


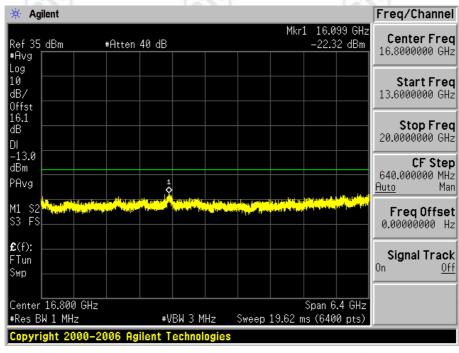






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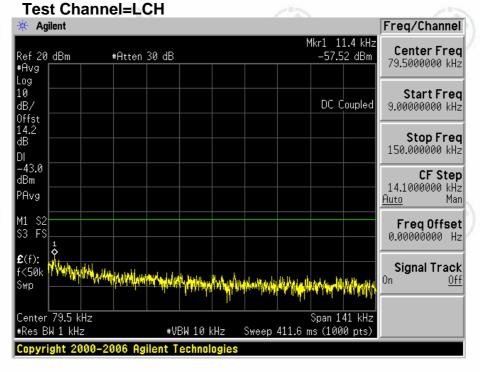


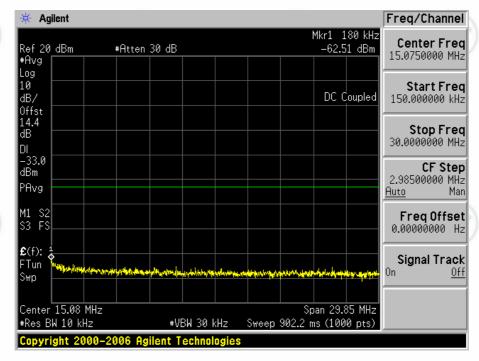




1.2.2.1

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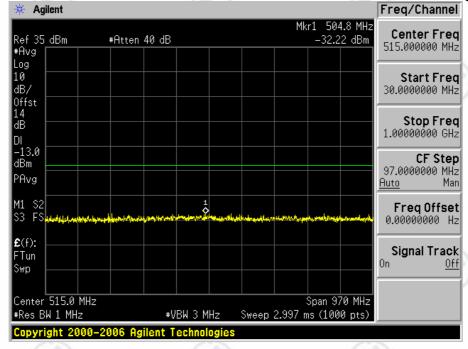


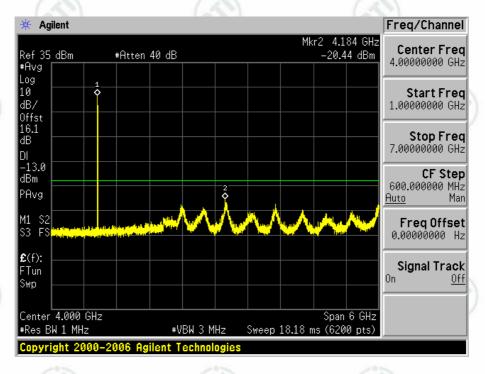


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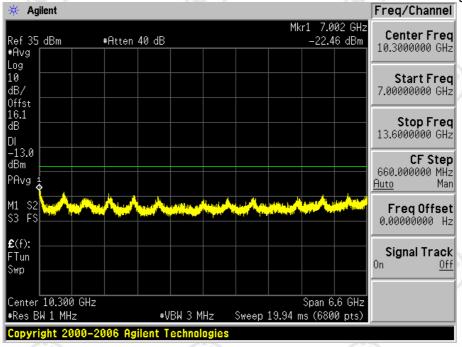


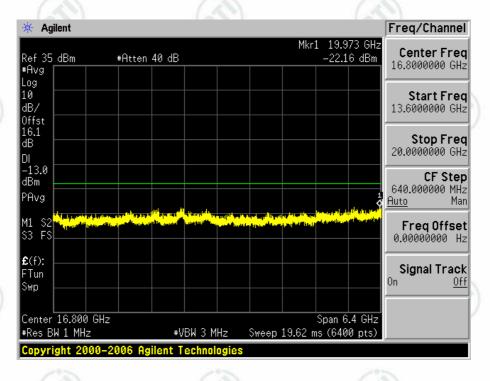




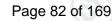


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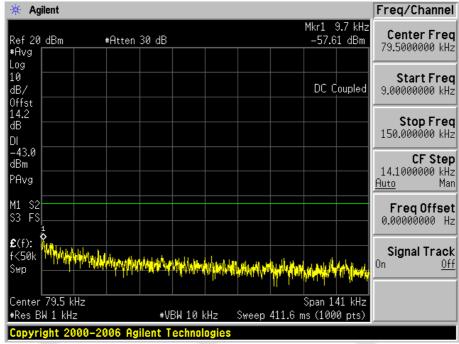


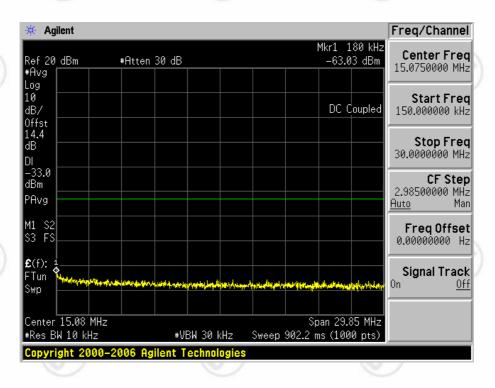






1.2.2.2 Test Channel=MCH









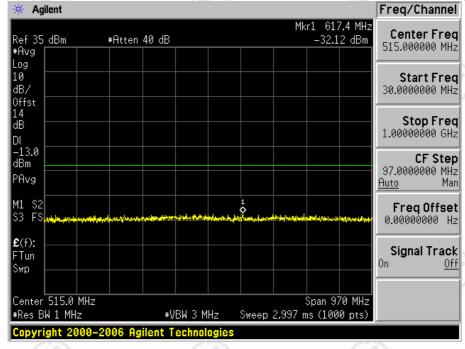


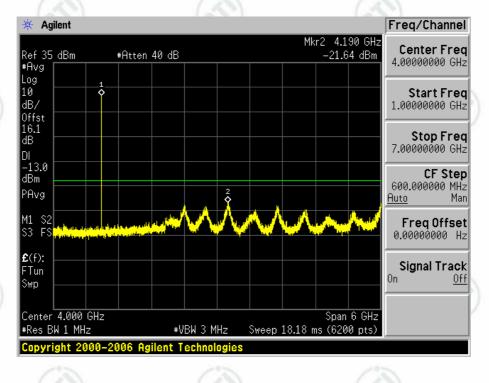






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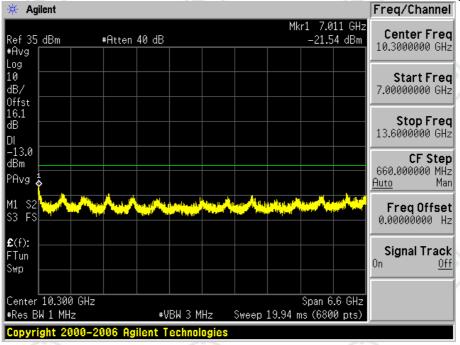


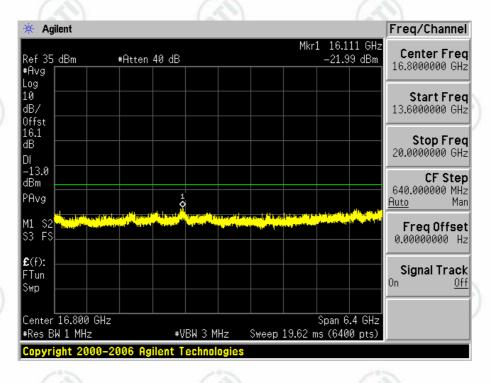




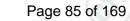


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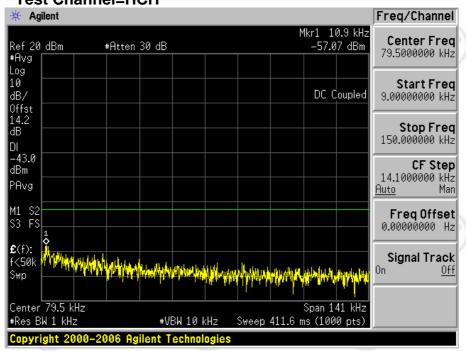


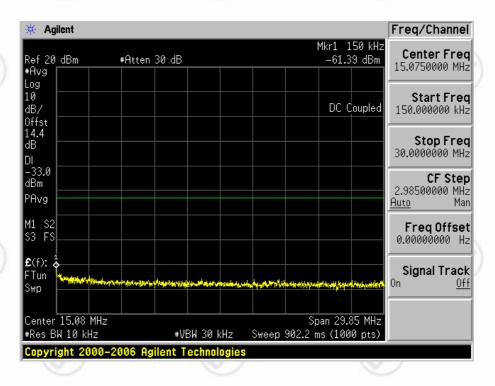


1.2.2.3

Report No.: EED32J00113705

Test Channel=HCH







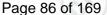


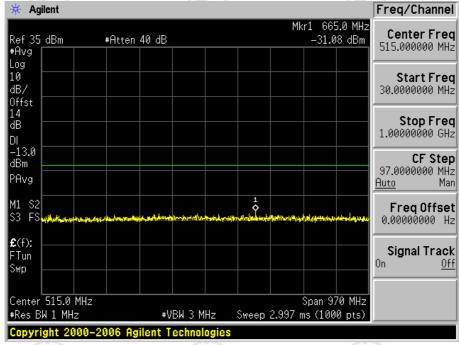


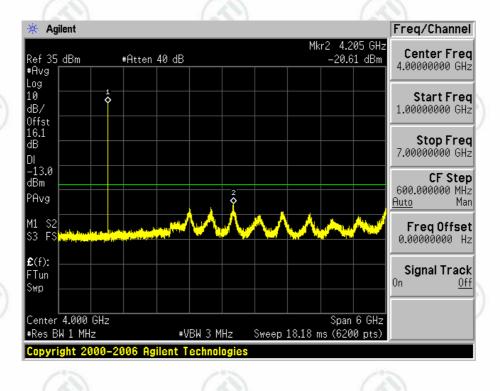
















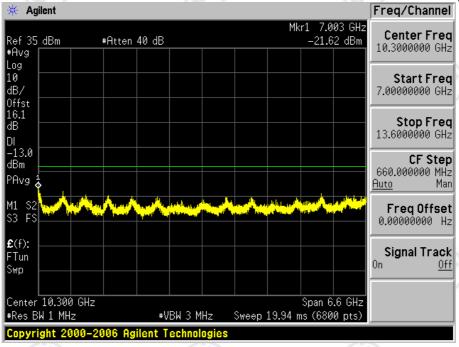


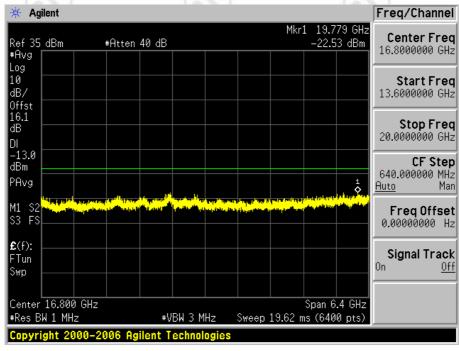


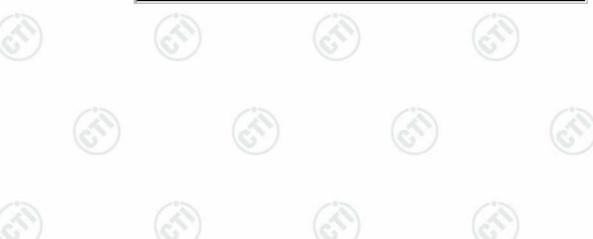




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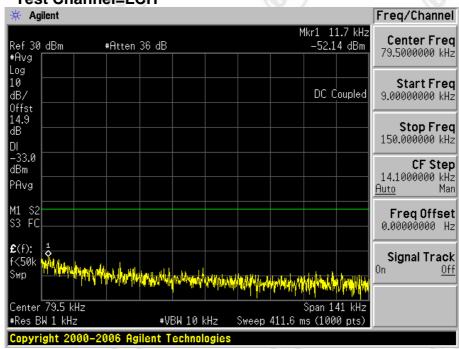
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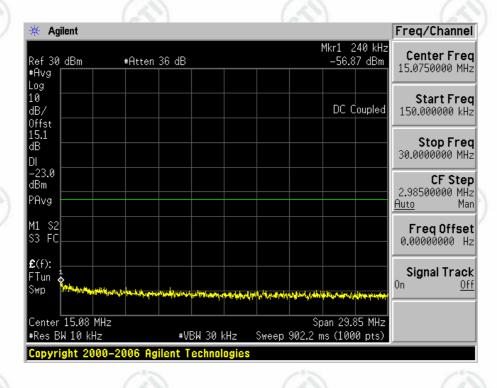
2 For WCDMA

2.1 Test Band=WCDMA850

2.1.1 Test Mode=UMTS/TM1

2.1.1.1 Test Channel=LCH

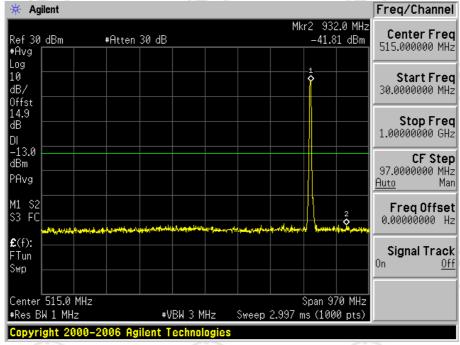


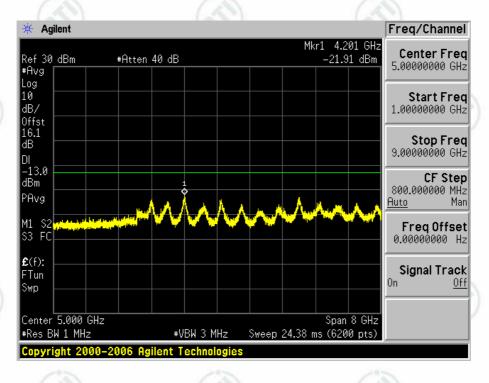






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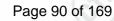










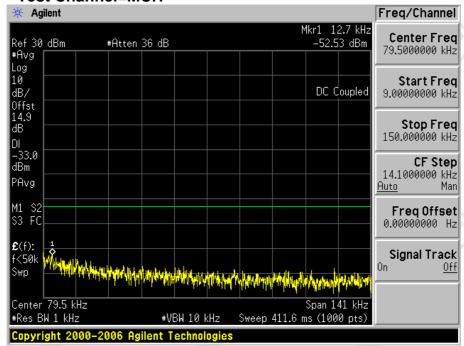


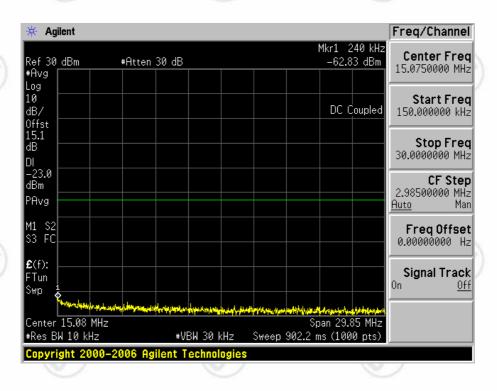


2.1.1.2

Report No.: EED32J00113705

Test Channel=MCH









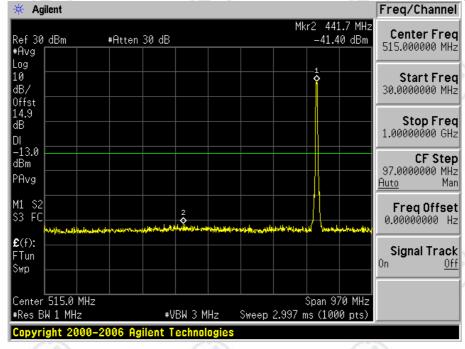


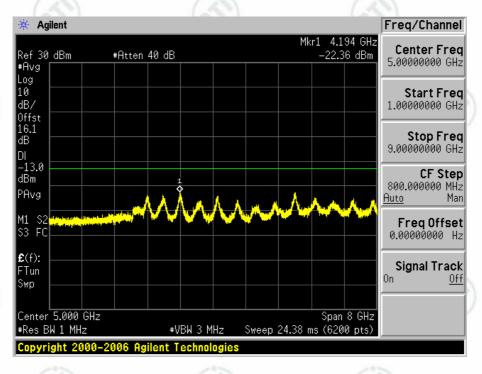






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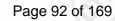










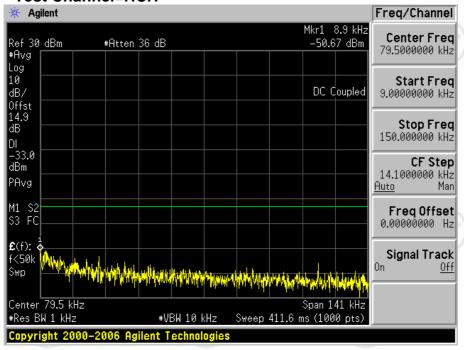


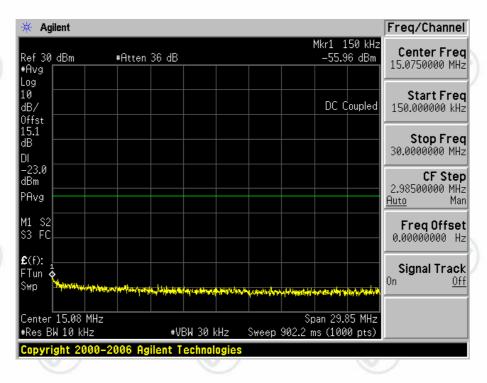


2.1.1.3

Report No.: EED32J00113705

Test Channel=HCH









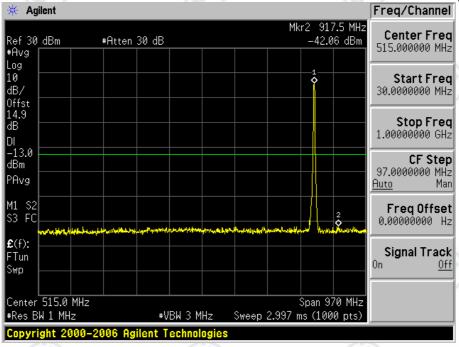


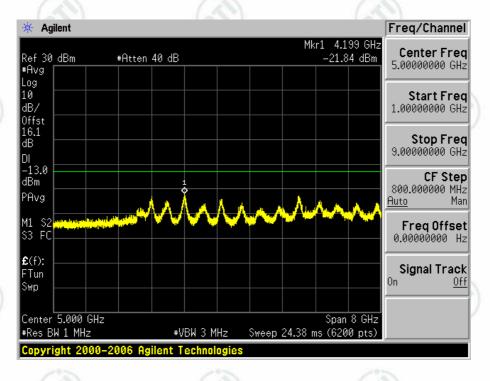






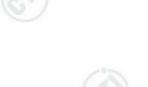
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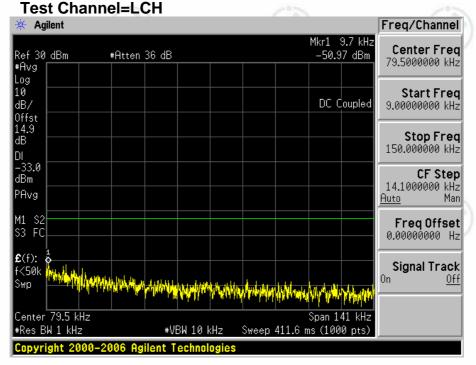


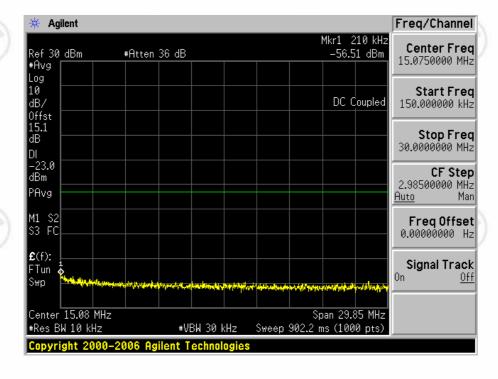






2.1.2 Test Mode=UMTS/TM2
2.1.2.1 Test Channel=LCH

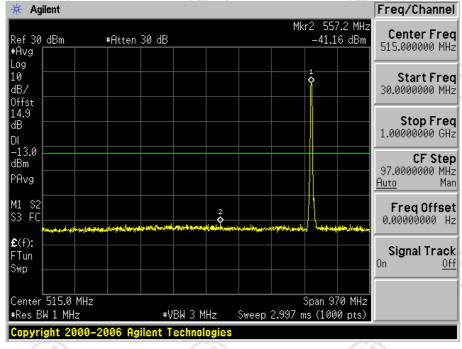


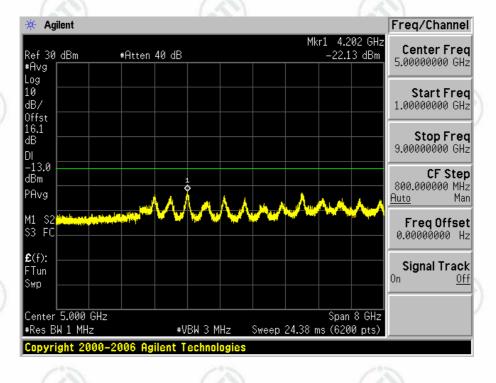






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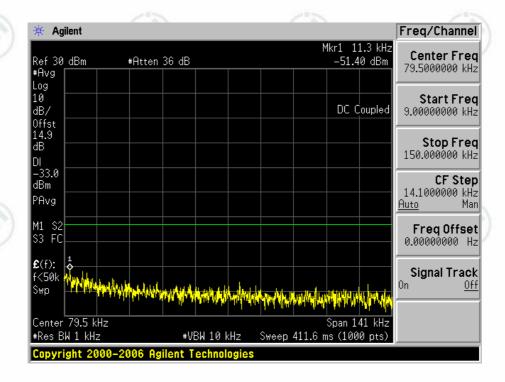


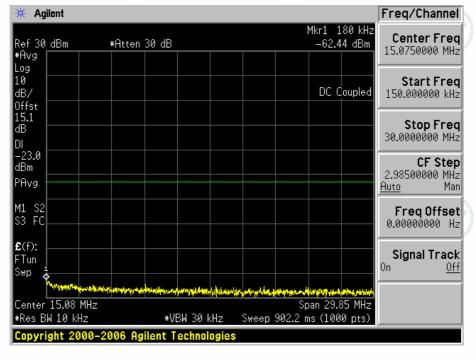






2.1.2.2 Test Channel=MCH









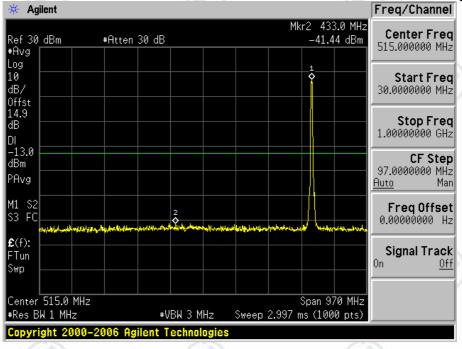


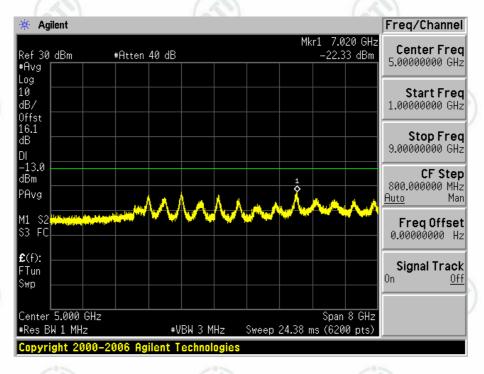






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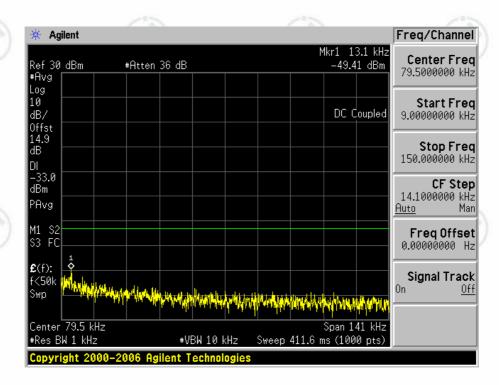


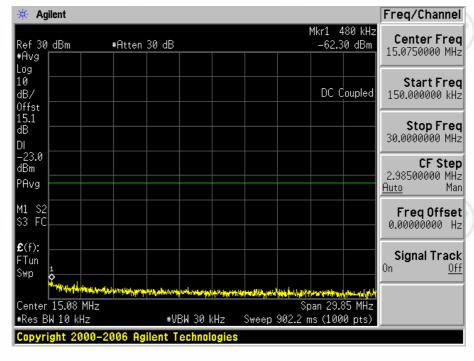






2.1.2.3 Test Channel=HCH









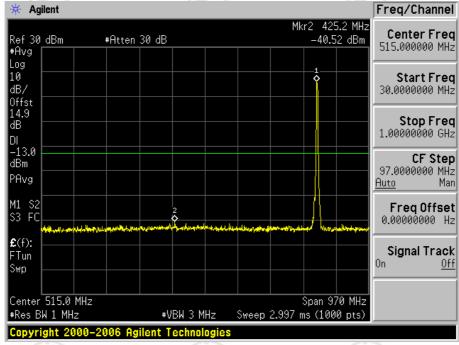


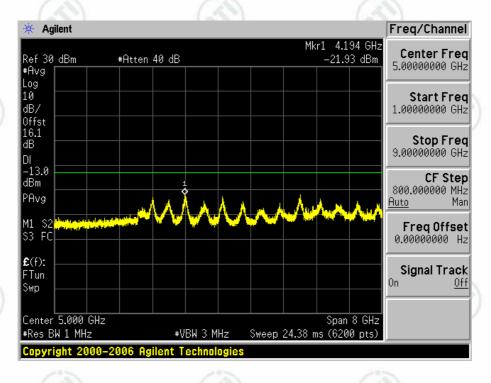












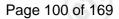








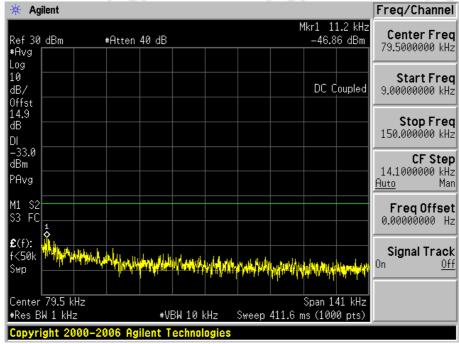


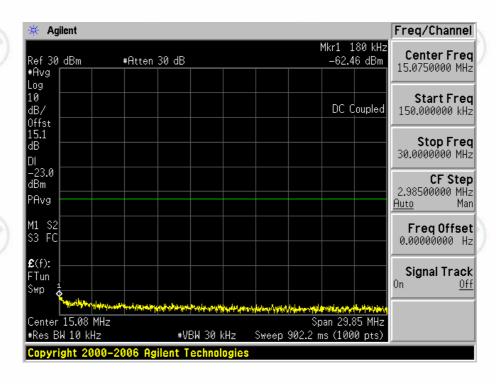




2.1.3 Test Mode=UMTS/TM3

2.1.3.1 Test Channel=LCH

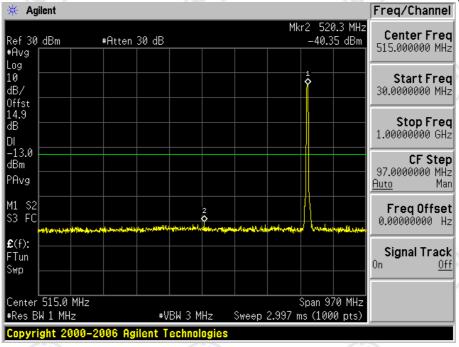


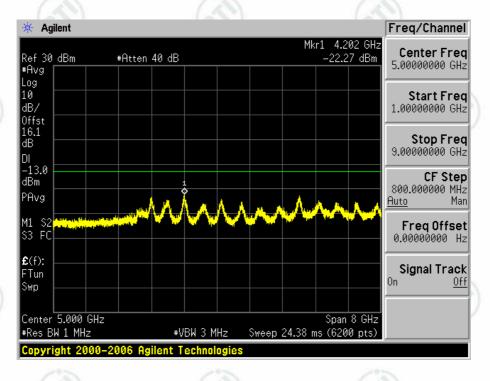






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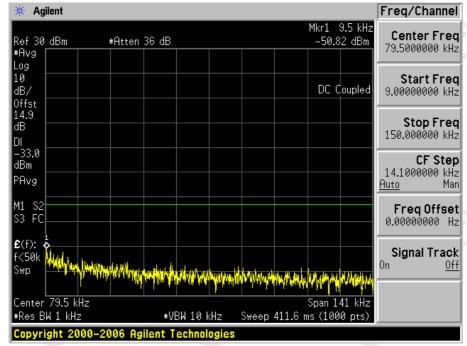


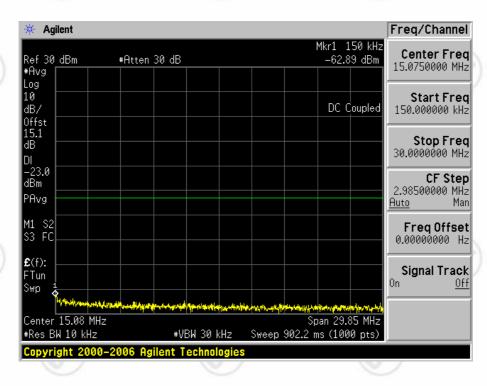






2.1.3.2 Test Channel=MCH









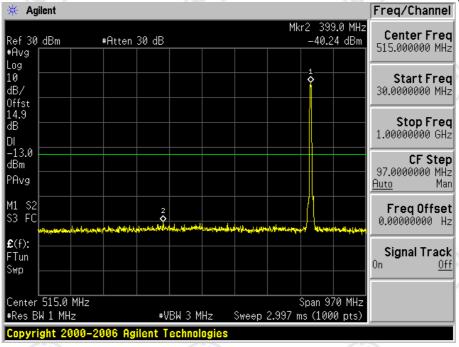


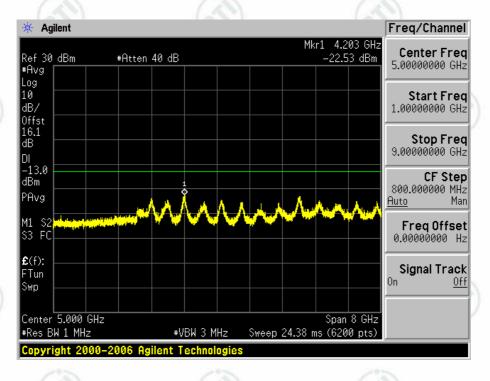






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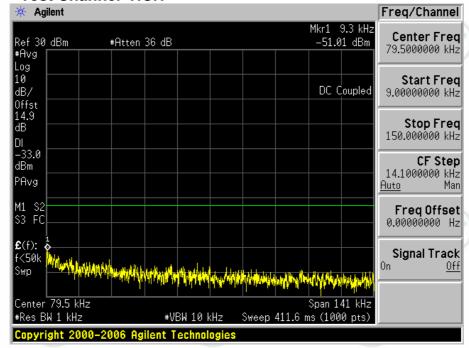


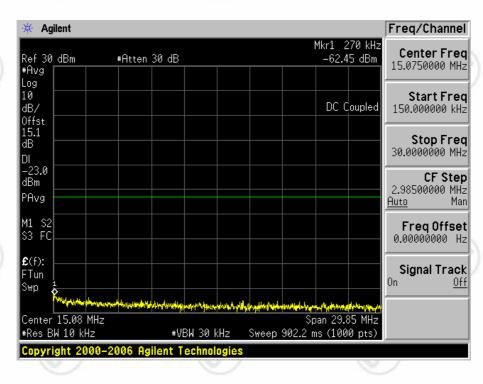


2.1.3.3

Report No.: EED32J00113705

Test Channel=HCH









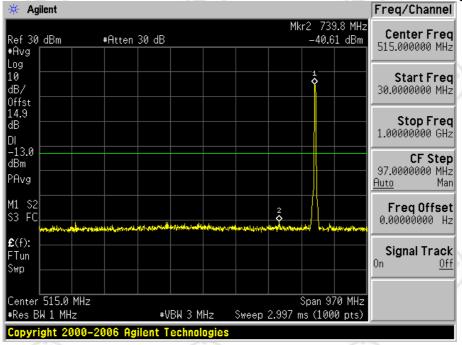


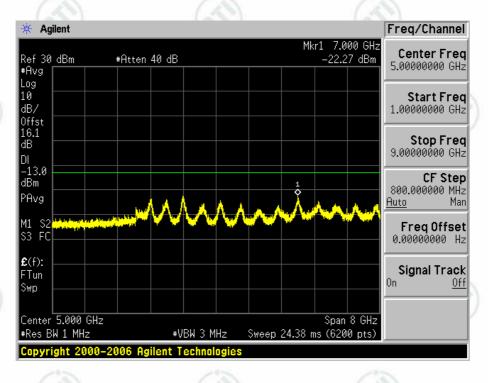






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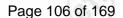








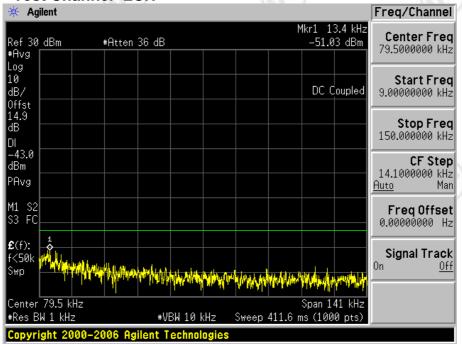


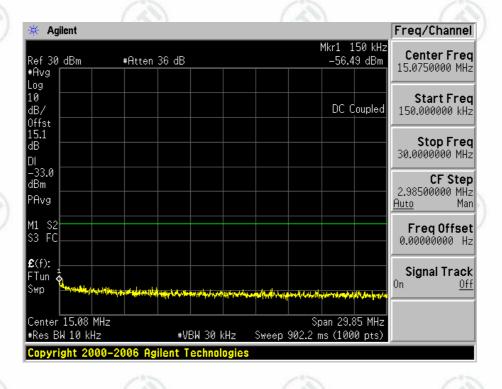




2.2 Test Band=WCDMA1900 2.2.1 Test Mode=UMTS/TM1

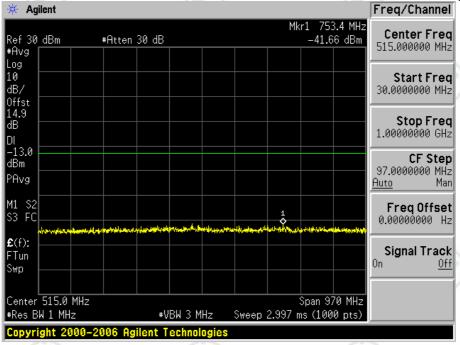
2.2.1.1 Test Channel=LCH

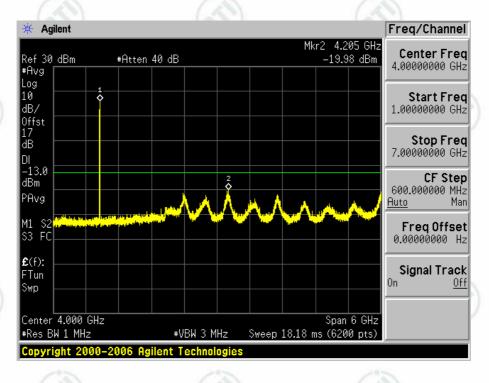






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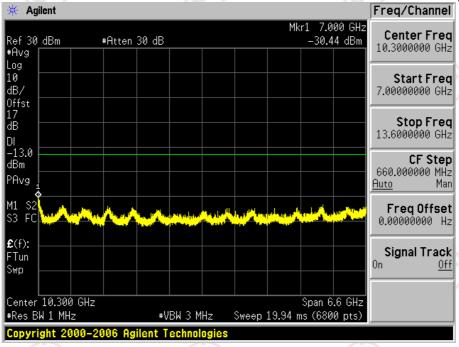


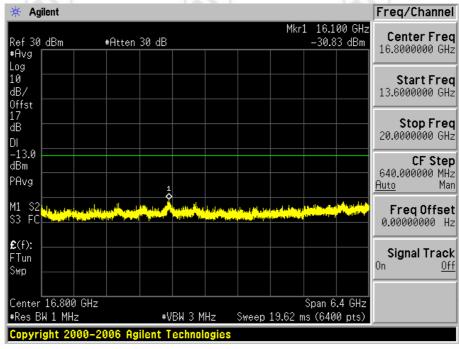






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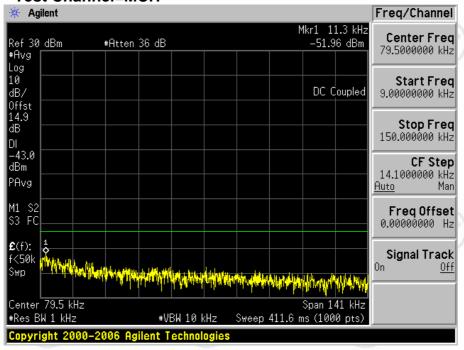


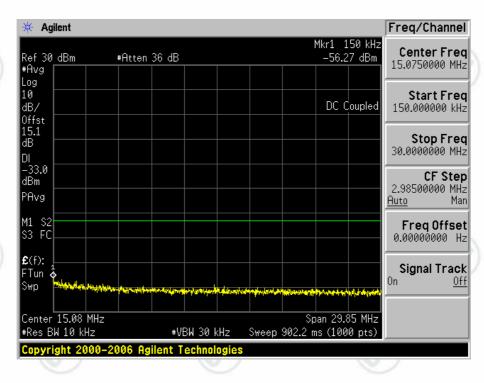


2.2.1.2

Report No.: EED32J00113705

Test Channel=MCH









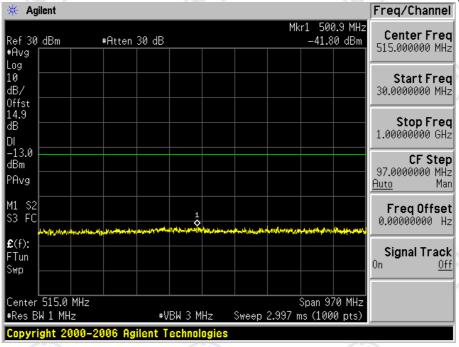


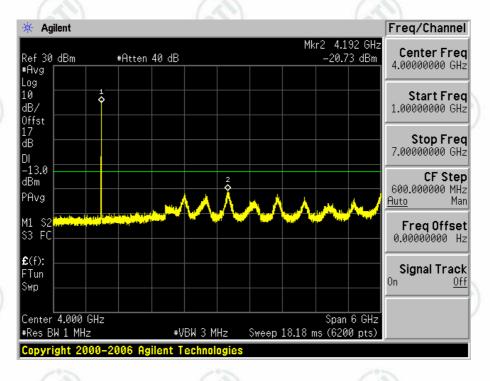






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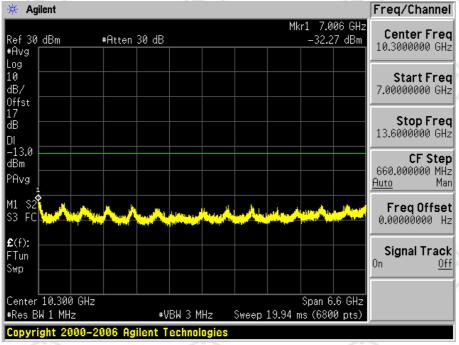


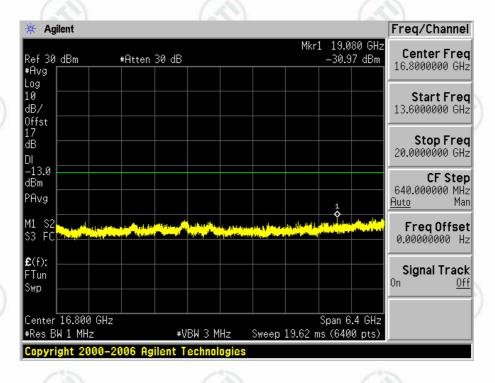






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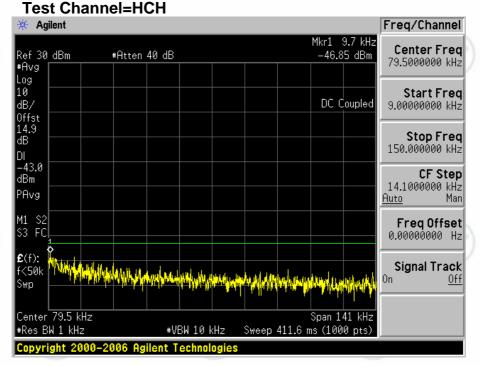


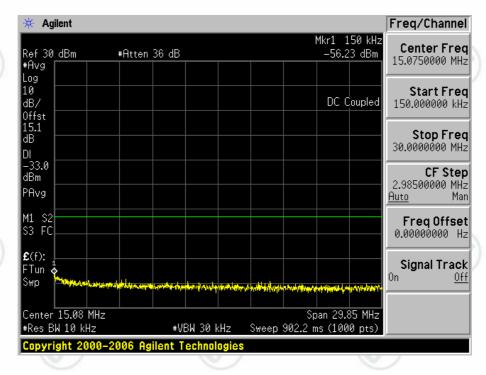






2.2.1.3 Test Channel=HC

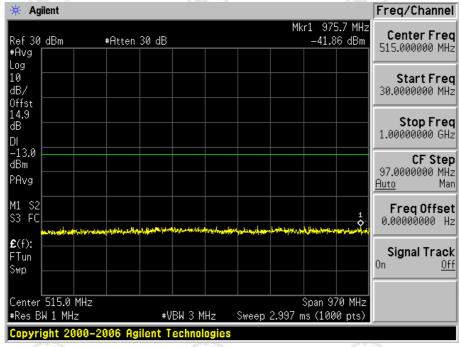


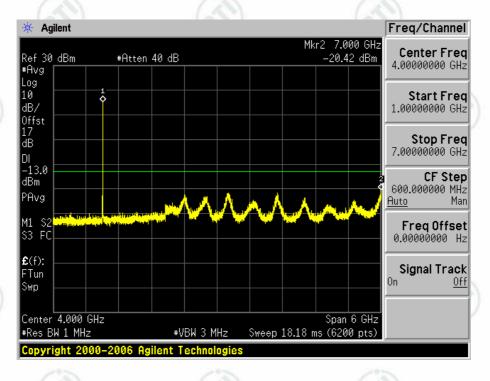






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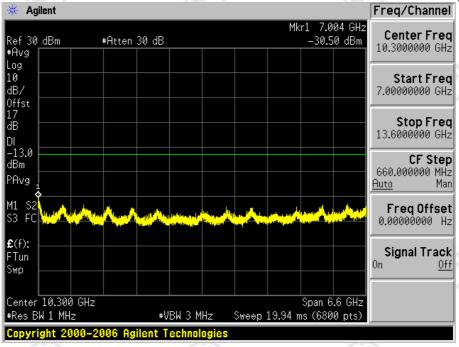


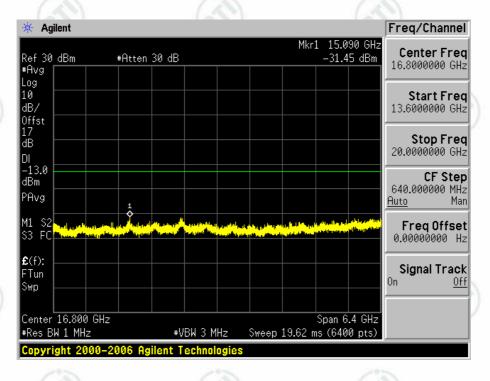




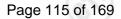


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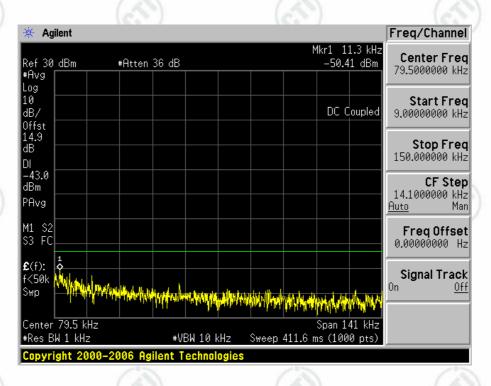


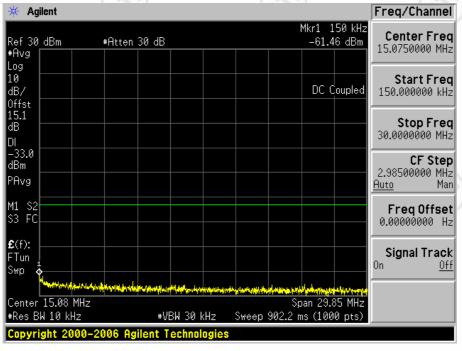


2.2.2.1

2.2.2 Test Mode=UMTS/TM2

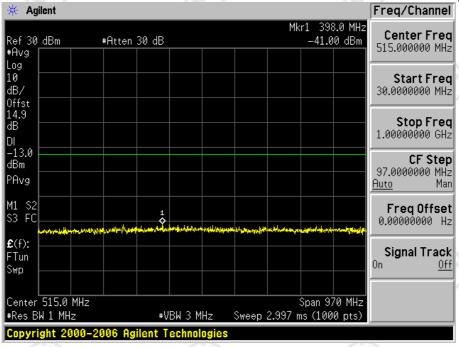
Test Channel=LCH

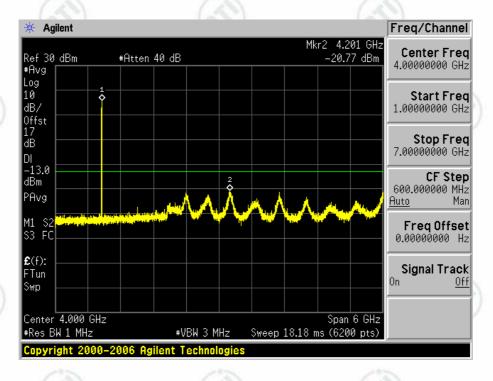






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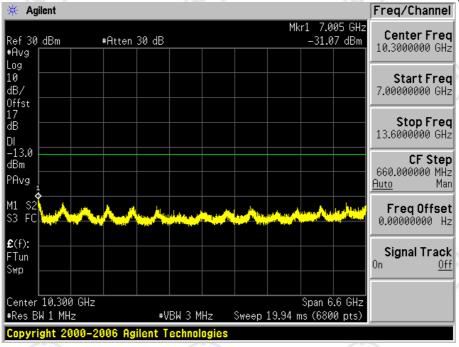


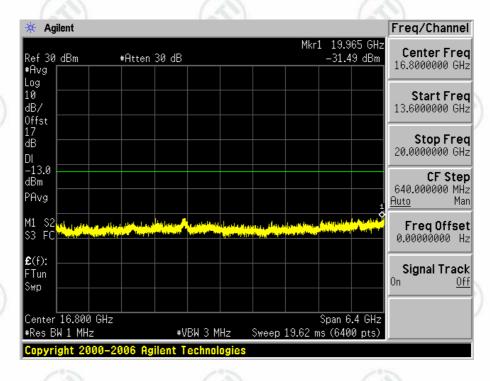






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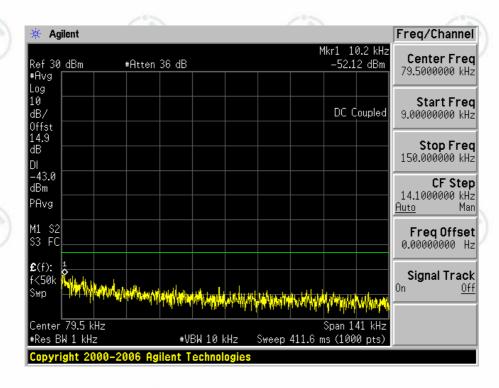


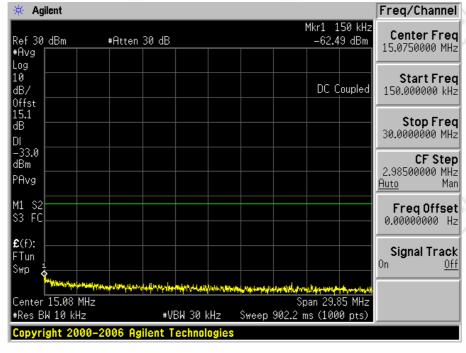






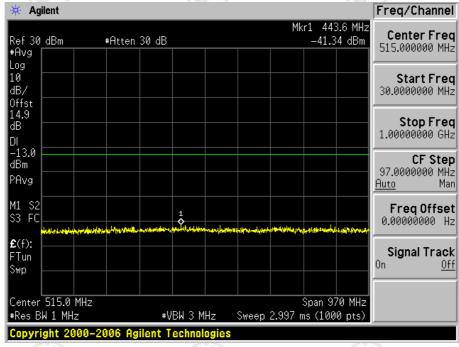


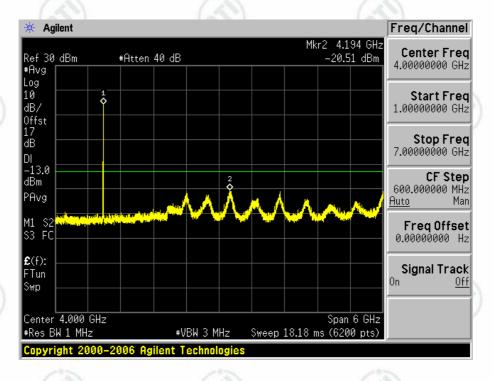






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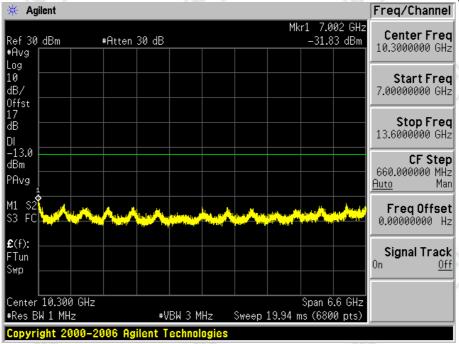


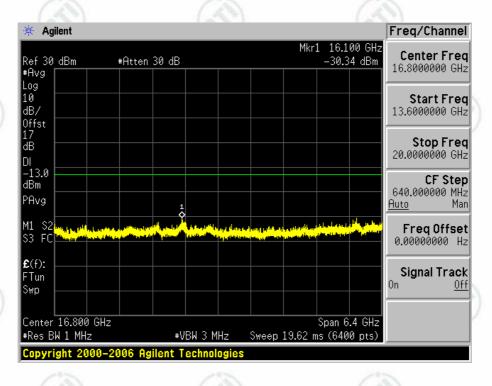






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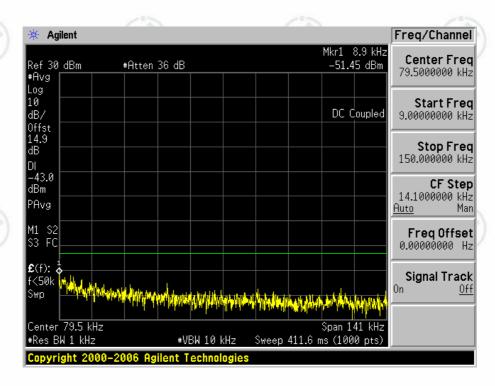


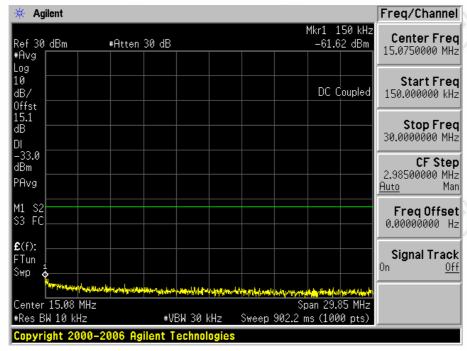








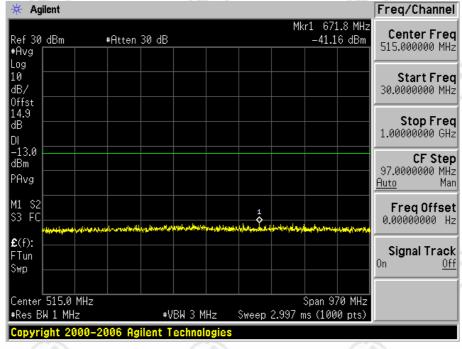


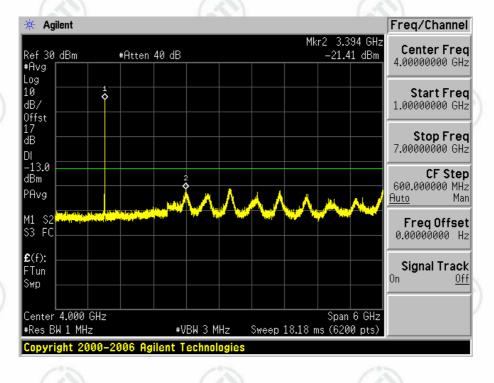






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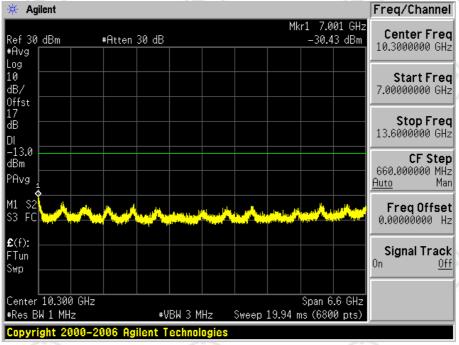


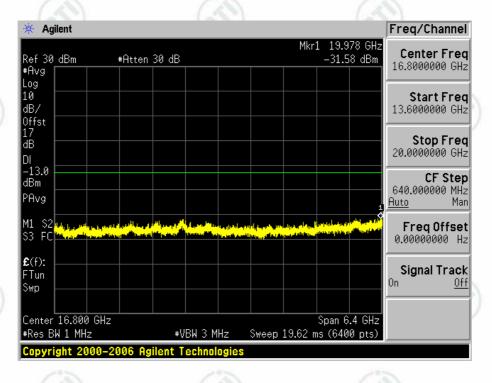






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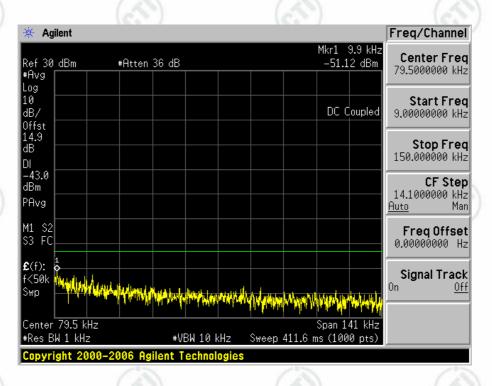


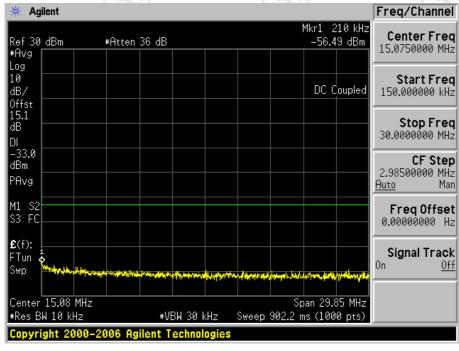


2.2.3.1

2.2.3 Test Mode=UMTS/TM3

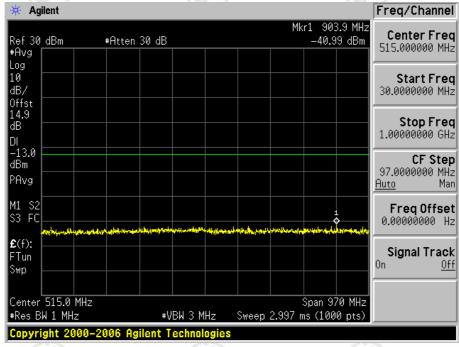
Test Channel=LCH

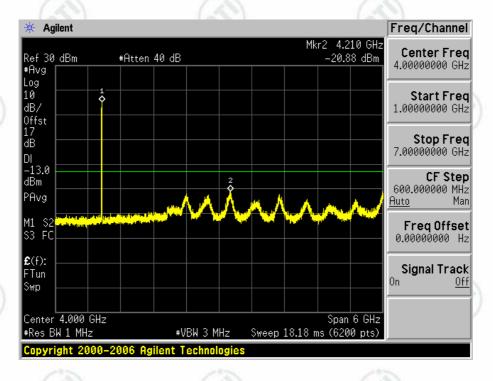






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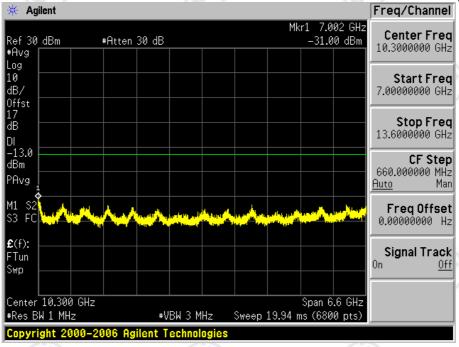


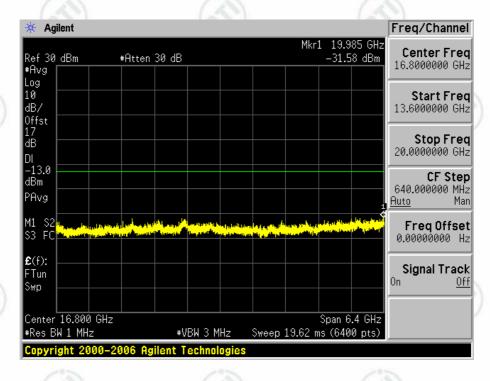






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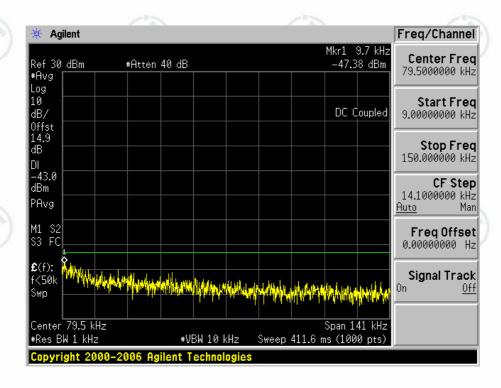


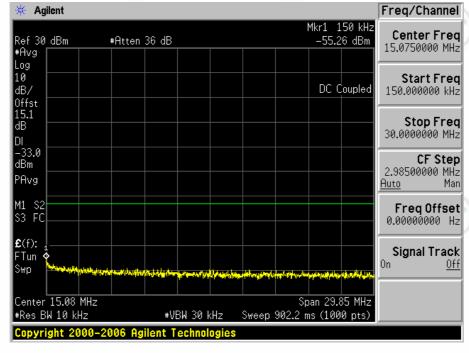






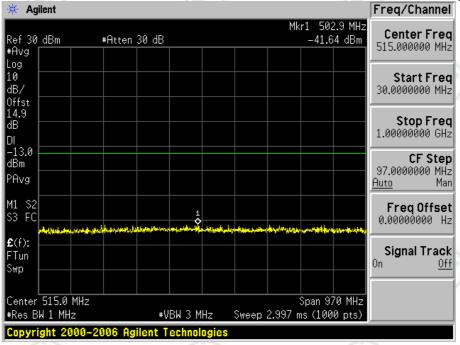
2.2.3.2 Test Channel=MCH

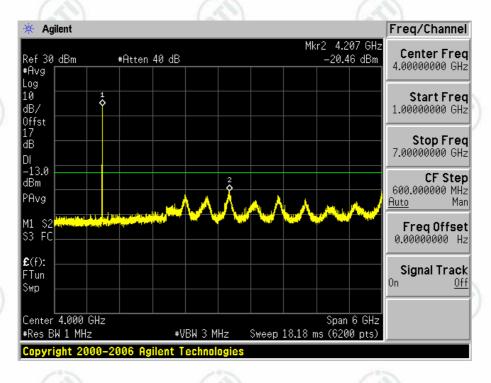






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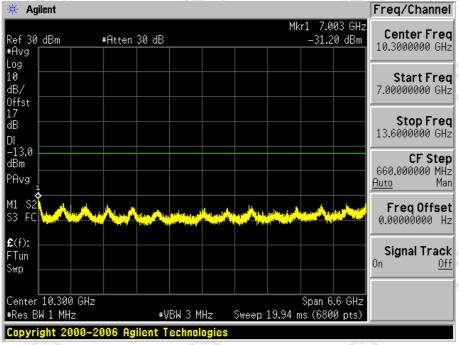


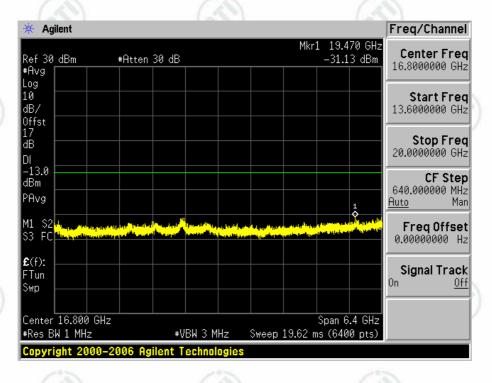


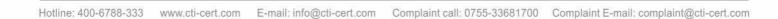




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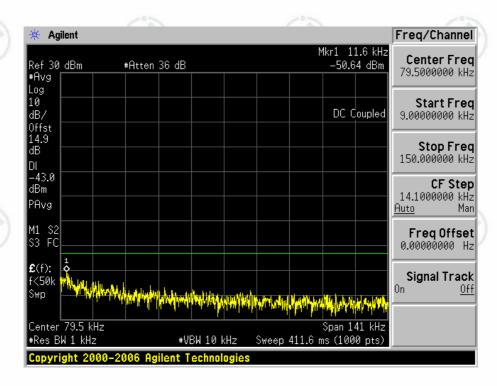


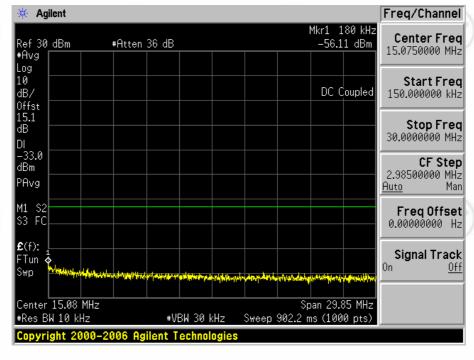






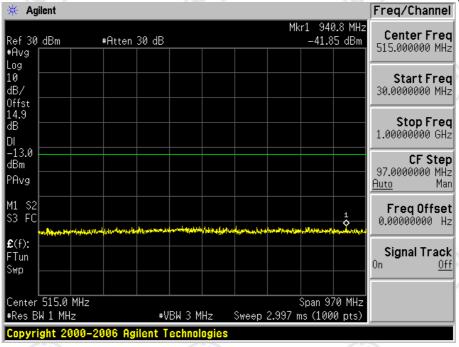


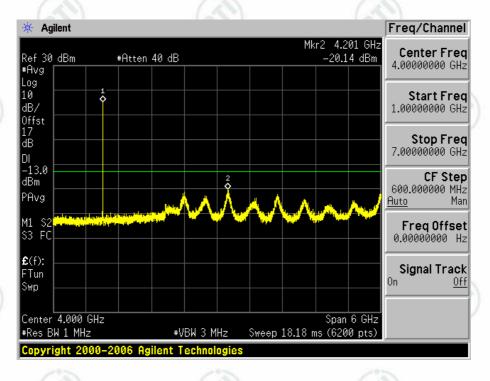






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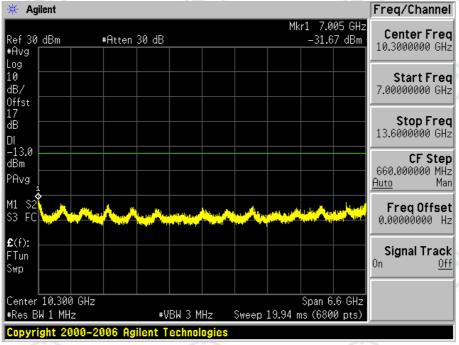


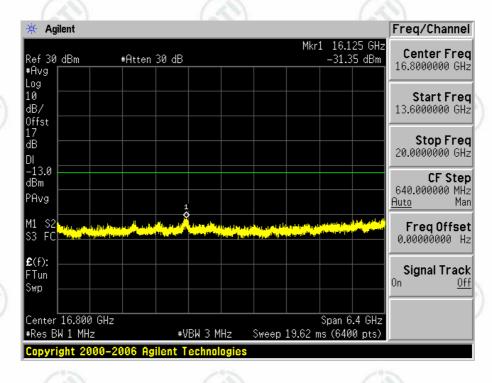






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Appendix F)Frequency Stability

Test Requirement:	Part 2.1055	70							
Test Method:	TIA-603-E-2016 Clause 2.2.2								
Test Setup:	Refer to section 5 for details								
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable and a Bas Station Simulator. The Base Station Simulator was set to force the EUT to it maximum power setting. The tests were performed at three frequencies (low channel and high channel). The EUT was place in the temperature chamber the DC leads and RF output cable exited the chamber though an opening made for that purpose. After Operate the equipment in standby conditions for 15 minutes before proceeding. The temperature was varied from -30°C t +55°C at intervals of not more than 10°C The frequency stability was read from the base station. Since the EUT is hand carried, battery powered equipment, a 25°C the input voltage was reduced from 3.7V (primary supply voltage) to 3.1V (end point voltage), the frequency stability and input voltage 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	(25) (25)							
Test Results:	Pass								

Test Data:

Frequency Error vs. Voltage:

(VL is 3.1V, VN is 3.4V, VH is 3.7V)

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	roraiot
		(1)	TN	VL	4.84	0.005872	±2.5	PASS
/		LCH	TN	VN	5.55	0.006734	±2.5	PASS
			TN	VH	5.94	0.007207	±2.5	PASS
,		МСН	TN	VL	6.59	0.007877	±2.5	PASS
GSM850	TM2		TN	VN	9.43	0.011272	±2.5	PASS
(6)	-		TN	VH	3.49	0.004172	±2.5	PASS
			TN	VL	2.97	0.003499	±2.5	PASS
		HCH	TN	VN	6.39	0.007528	±2.5	PASS
(*)		(3)	TN	VH	6.72	0.007917	±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	-2.26	-0.002742	±2.5	PASS
		LCH	TN	VN	-1.65	-0.002002	±2.5	PASS
			TN	VH	0.48	0.000582	±2.5	PASS
6			TN	VL	-1.39	-0.001661	±2.5	PASS
GSM850	TM3	мсн	TN	VN	-2.07	-0.002474	±2.5	PASS
			TN	VH	-6.17	-0.007375	±2.5	PASS
			TN	VL	0.61	0.000719	±2.5	PASS
65		нсн	TN	VN	-1.49	-0.001755	±2.5	PASS
6	/		TN	VH	-6.94	-0.008176	±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	7.43	0.004016	±2.5	PASS
		LCH	TN	VN	-3.10	-0.001675	±2.5	PASS
1			TN	VH	-3.94	-0.002129	±2.5	PASS
(6)	(C)		TN	VL	1.81	0.000963	±2.5	PASS
GSM1900	TM2	MCH	TN	VN	2.32	0.001234	±2.5	PASS
			TN	VH	2.52	0.001340	±2.5	PASS
- A			TN	VL	-6.46	-0.003383	±2.5	PASS
7		HCH	TN	VN	-7.88	-0.004126	±2.5	PASS
			TN	VH	-3.42	-0.001791	±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	-6.94	-0.003751	±2.5	PASS
		LCH	TN	VN	-11.04	-0.005967	±2.5	PASS
			TN	VH	-13.66	-0.007383	±2.5	PASS
		6	TN	VL	-11.75	-0.006250	±2.5	PASS
GSM1900	TM3	мсн	TN	VN	-3.10	-0.001649	±2.5	PASS
	_		TN	VH	0.29	0.000154	±2.5	PASS
(3	(8)		TN	VL	-6.91	-0.003618	±2.5	PASS
(6)	/	HCH	TN	VN	-4.58	-0.002398	±2.5	PASS
			TN	VH	-0.81	-0.000424	±2.5	PASS















Frequenc	Frequency Error vs. Temperature				730		a.	
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	5.62	0.006819	±2.5	PASS
		6,	VN	-20	11.43	0.013868	±2.5	PASS
			VN	-10	4.91	0.005957	±2.5	PASS
			VN	0	4.26	0.005169	±2.5	PASS
GSM850	TM2	LCH	VN	10	5.81	0.007049	±2.5	PASS
6			VN	20	6.65	0.008068	±2.5	PASS
			VN	30	6.33	0.007680	±2.5	PASS
			VN	40	4.78	0.005800	±2.5	PASS
			VN	50	8.46	0.010264	±2.5	PASS
/			VN	-30	8.07	0.009646	±2.5	PASS
			VN	-20	0.26	0.000311	±2.5	PASS
/-			VN	-10	1.87	0.002235	±2.5	PASS
(8)			VN	0	3.42	0.004088	±2.5	PASS
GSM850	TM2	мсн	VN	10	5.55	0.006634	±2.5	PASS
			VN	20	3.23	0.003861	±2.5	PASS
		(3)	VN	30	0.65	0.000777	±2.5	PASS
)			VN	40	2.45	0.002929	±2.5	PASS
			VN	50	4.84	0.005785	±2.5	PASS
			VN	-30	8.01	0.009437	±2.5	PASS
12			VN	-20	1.68	0.001979	±2.5	PASS
(6)			VN	-10	5.36	0.006315	±2.5	PASS
			VN	0	8.78	0.010344	±2.5	PASS
GSM850	TM2	НСН	VN	10	3.29	0.003876	±2.5	PASS
9)		(1)	VN	20	5.62	0.006621	±2.5	PASS
/		6	VN	30	8.59	0.010120	±2.5	PASS
			VN	40	2.71	0.003193	±2.5	PASS
			VN	50	5.68	0.006692	±2.5	PASS











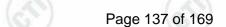




CTI	生 测	TO INTERNA	则
Repo	ort No. : EED	32J00	113705

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	-9.40	-0.011405	±2.5	PASS
			VN	-20	-8.91	-0.010810	±2.5	PASS
			VN	-10	-1.52	-0.001844	±2.5	PASS
		6.	VN	0	-0.68	-0.000825	±2.5	PASS
GSM850	TM3	LCH	VN	10	-4.04	-0.004902	±2.5	PASS
			VN	20	-4.33	-0.005254	±2.5	PASS
(A)			VN	30	-6.49	-0.007874	±2.5	PASS
(0)			VN	40	-5.94	-0.007207	±2.5	PASS
			VN	50	-3.75	-0.004550	±2.5	PASS
			VN	-30	-5.78	-0.006909	±2.5	PASS
9)			VN	-20	-8.72	-0.010423	±2.5	PASS
/			VN	-10	-2.71	-0.003239	±2.5	PASS
			VN	0	-6.20	-0.007411	±2.5	PASS
GSM850	TM3	МСН	VN	10	-5.36	-0.006407	±2.5	PASS
(63)			VN	20	-4.62	-0.005522	±2.5	PASS
			VN	30	-2.10	-0.002510	±2.5	PASS
			VN	40	-6.23	-0.007447	±2.5	PASS
		(3)	VN	50	-5.20	-0.006216	±2.5	PASS
")			VN	-30	-7.59	-0.008942	±2.5	PASS
			VN	-20	-6.75	-0.007952	±2.5	PASS
			VN	-10	-1.84	-0.002168	±2.5	PASS
1			VN	0	-5.55	-0.006539	±2.5	PASS
GSM850	TM3	нсн	VN	10	-4.58	-0.005396	±2.5	PASS
			VN	20	-4.36	-0.005137	±2.5	PASS
			VN	30	3.23	0.003805	±2.5	PASS
			VN	40	-6.75	-0.007952	±2.5	PASS
		(C)	VN	50	-2.13	-0.002509	±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	3.62	0.001957	±2.5	PASS
			VN	-20	2.39	0.001292	±2.5	PASS
			VN	-10	0.45	0.000243	±2.5	PASS
		6.	VN	0	-1.68	-0.000908	±2.5	PASS
GSM1900	TM2	LCH	VN	10	-4.46	-0.002411	±2.5	PASS
			VN	20	-6.07	-0.003281	±2.5	PASS
(48)			VN	30	-8.14	-0.004400	±2.5	PASS
(0)			VN	40	0.58	0.000313	±2.5	PASS
			VN	50	-5.68	-0.003070	±2.5	PASS
		70	VN	-30	-5.29	-0.002814	±2.5	PASS
. (4)			VN	-20	-6.46	-0.003436	±2.5	PASS
			VN	-10	-9.04	-0.004809	±2.5	PASS
			VN	0	-10.07	-0.005356	±2.5	PASS
GSM1900	TM2	мсн	VN	10	-11.75	-0.006250	±2.5	PASS
(8)			VN	20	-1.94	-0.001032	±2.5	PASS
			VN	30	-6.20	-0.003298	±2.5	PASS
			VN	40	1.94	0.001032	±2.5	PASS
			VN	50	2.58	0.001372	±2.5	PASS
(1)			VN	-30	-11.88	-0.006221	±2.5	PASS
			VN	-20	-4.84	-0.002534	±2.5	PASS
			VN	-10	-4.84	-0.002534	±2.5	PASS
			VN	0	-2.71	-0.001419	±2.5	PASS
GSM1900	TM2	нсн	VN	10	1.23	0.000644	±2.5	PASS
			VN	20	0.32	0.000168	±2.5	PASS
			VN	30	-2.52	-0.001320	±2.5	PASS
			VN	40	-3.94	-0.002063	±2.5	PASS
		(C)	VN	50	-6.33	-0.003314	±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	6.04	0.003265	±2.5	PASS
		-	VN	-20	-10.30	-0.005567	±2.5	PASS
GSM1900	TM3	LCH	VN	-10	-10.36	-0.005599	±2.5	PASS
-/-	ĺ		VN	0	-9.65	-0.005216	±2.5	PASS



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Report No LLD3	200011070).	1/9/2		100	raye 130	5 01 103
		VN	10	-9.75	-0.005270	±2.5	PASS
		VN	20	-9.01	-0.004870	±2.5	PASS
(4)		VN	30	-9.56	-0.005167	±2.5	PASS
(6)		VN	40	-10.04	-0.005426	±2.5	PASS
		VN	50	-10.23	-0.005529	±2.5	PASS
		VN	-30	-14.82	-0.007883	±2.5	PASS
(6)		VN	-20	3.91	0.002080	±2.5	PASS
/	0.	VN	-10	-5.26	-0.002798	±2.5	PASS
		VN	0	0.94	0.000500	±2.5	PASS
GSM1900 TM3	МСН	VN	10	-9.40	-0.005000	±2.5	PASS
(25)		VN	20	-7.04	-0.003745	±2.5	PASS
		VN	30	-13.43	-0.007144	±2.5	PASS
		VN	40	-13.50	-0.007181	±2.5	PASS
	/-	VN	50	-13.04	-0.006936	±2.5	PASS
•)	(3)	VN	-30	-0.03	-0.000016	±2.5	PASS
		VN	-20	1.78	0.000932	±2.5	PASS
		VN	-10	-6.26	-0.003278	±2.5	PASS
		VN	0	2.45	0.001283	±2.5	PASS
GSM1900 TM3	НСН	VN	10	1.29	0.000675	±2.5	PASS
		VN	20	4.62	0.002419	±2.5	PASS
		VN	30	-5.07	-0.002655	±2.5	PASS
		VN	40	2.42	0.001267	±2.5	PASS
)		VN	50	-6.30	-0.003299	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
(6)	ソ		TN	VL	10.56	0.012777	±2.5	PASS
		LCH	TN	VN	145.63	0.176222	±2.5	PASS
			TN	VH	-8.19	-0.009915	±2.5	PASS
MODIMA		TM1 MCH	TN	VL	284.10	0.339674	±2.5	PASS
WCDMA8	TM1		TN	VN	145.63	1.214975	±2.5	PASS
50			TN	VH	737.66	0.881941	±2.5	PASS
		TN	VL	-0.92	-0.001081	±2.5	PASS	
(65	(3)	НСН	TN	VN	145.63	0.002613	±2.5	PASS
			TN	VH	7.16	0.008453	±2.5	PASS













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Test Band	Test Mode	Test Channel	Test	Test Volt.	Freq.Error	Freq.vs.rated	Limit (nnm)	Verdict
Danu	Wode	Channel	Temp.		(Hz)	(ppm)	(ppm)	DAGG
0			TN	VL	42.22	0.051090	±2.5	PASS
		LCH	TN	VN	-22.46	-0.027179	±2.5	PASS
			TN	VH	50.08	0.060599	±2.5	PASS
WCDMA8			TN	VL	-142.44	-0.170302	±2.5	PASS
50	TM2	MCH	TN	VN	-22.46	0.012916	±2.5	PASS
50			TN	VH	26.92	0.032181	±2.5	PASS
		НСН	TN	VL	-26.41	-0.031199	±2.5	PASS
63			TN	VN	-22.46	0.029703	±2.5	PASS
9)		TN	VH	-29.11	-0.034389	±2.5	PASS
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Maritan
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
	i		TN	VL	-0.93	-0.001126	±2.5	PASS
/		TM3 MCH	TN	VN	-88.73	-0.107369	±2.5	PASS
			TN	VH	1.98	0.002400	±2.5	PASS
-			TN	VL	-5.05	-0.006039	±2.5	PASS
WCDMA8	TM3		TN	VN	-88.73	-0.133341	±2.5	PASS
50			TN	VH	-96.62	-0.115517	±2.5	PASS
		нсн	TN	VL	118.44	0.139899	±2.5	PASS
			TN	VN	-88.73	0.032352	±2.5	PASS
P)		(3)	TN	VH	-96.12	-0.113531	±2.5	PASS









Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	19.61	0.010585	±2.5	PASS
		LCH	TN	VN	13.60	0.007339	±2.5	PASS
			TN	VH	3.27	0.001763	±2.5	PASS
)		(3)	TN	VL	149.19	0.079354	±2.5	PASS
WCDMA1	TM1	MCH	TN	VN	13.60	-0.001510	±2.5	PASS
900			TN	VH	-17.62	-0.009374	±2.5	PASS
	0		TN	VL	85.85	0.045002	±2.5	PASS
)	нсн	TN	VN	13.60	0.078886	±2.5	PASS
			TN	VH	445.62	0.233601	±2.5	PASS
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Mandiat
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
		0	TN	VL	-78.70	-0.042488	±2.5	PASS
	TM2	LCH	TN	VN	-195.66	-0.105627	±2.5	PASS
			TN	VH	125.08	0.067521	±2.5	PASS
		TM2 MCH	TN	VL	-85.51	-0.045484	±2.5	PASS
WCDMA1			TN	VN	-195.66	-0.111008	±2.5	PASS
900			TN	VH	8.18	0.004350	±2.5	PASS
			TN	VL	105.36	0.055233	±2.5	PASS
			TN	VN	-195.66	0.000024	±2.5	PASS
			TN	VH	-54.61	-0.028628	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
(8)	(S)		TN	VL	47.06	0.025404	±2.5	PASS
		TM3 MCH	TN	VN	98.82	0.053345	±2.5	PASS
			TN	VH	-7.51	-0.004053	±2.5	PASS
			TN	VL	-121.72	-0.064744	±2.5	PASS
WCDMA1	TM3		TN	VN	98.82	-0.051896	±2.5	PASS
900			TN	VH	63.55	0.033805	±2.5	PASS
			TN	VL	91.22	0.047818	±2.5	PASS
		HCH	TN	VN	98.82	0.040123	±2.5	PASS
	(7)		TN	VH	-53.27	-0.027924	±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	18.16	0.021972	±2.5	PASS
			VN	-20	-0.32	-0.000388	±2.5	PASS
(4)		(3)	VN	-10	448.93	0.543234	±2.5	PASS
			VN	0	140.95	0.170553	±2.5	PASS
WCDMA8	TM1	LCH	VN	10	6.32	0.007644	±2.5	PASS
50	0		VN	20	-10.27	-0.012426	±2.5	PASS
(6)	9		VN	30	2.49	0.003010	±2.5	PASS
			VN	40	301.28	0.364575	±2.5	PASS
			VN	50	138.67	0.167802	±2.5	PASS
0			VN	-30	594.10	0.710307	±2.5	PASS
		6,	VN	-20	735.72	0.879624	±2.5	PASS
			VN	-10	879.93	1.052043	±2.5	PASS
			VN	0	713.24	0.852752	±2.5	PASS
WCDMA8	TM1	MCH	VN	10	725.10	0.866927	±2.5	PASS
50			VN	20	286.71	0.342794	±2.5	PASS
			VN	30	1242.98	1.486108	±2.5	PASS
-		_0-	VN	40	5.48	0.006549	±2.5	PASS
			VN	50	727.54	0.869846	±2.5	PASS
			VN	-30	-11.06	-0.013067	±2.5	PASS
			VN	-20	-3.68	-0.004344	±2.5	PASS
-			VN	-10	6.01	0.007101	±2.5	PASS
	(a)		VN	0	3.17	0.003749	±2.5	PASS
WCDMA8	TM1	нсн	VN	10	8.71	0.010291	±2.5	PASS
50			VN	20	13.43	0.015861	±2.5	PASS
30			VN	30	-10.22	-0.012076	±2.5	PASS
1)		(3)	VN	40	-2.88	-0.003406	±2.5	PASS
			VN	50	-2.56	-0.003028	±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	18.16	0.021972	±2.5	PASS
			VN	-20	-0.32	-0.000388	±2.5	PASS
			VN	-10	448.93	0.543234	±2.5	PASS
J		0,	VN	0	140.95	0.170553	±2.5	PASS
WCDMA8	TM1	LCH	VN	10	6.32	0.007644	±2.5	PASS
50			VN	20	-10.27	-0.012426	±2.5	PASS
			VN	30	2.49	0.003010	±2.5	PASS
(0)			VN	40	301.28	0.364575	±2.5	PASS
			VN	50	138.67	0.167802	±2.5	PASS
		71	VN	-30	594.10	0.710307	±2.5	PASS
(4)			VN	-20	735.72	0.879624	±2.5	PASS
/			VN	-10	879.93	1.052043	±2.5	PASS
			VN	0	713.24	0.852752	±2.5	PASS
WCDMA8	TM1	MCH	VN	10	725.10	0.866927	±2.5	PASS
50			VN	20	286.71	0.342794	±2.5	PASS
			VN	30	1242.98	1.486108	±2.5	PASS
			VN	40	5.48	0.006549	±2.5	PASS
	1	1	VN	50	727.54	0.869846	±2.5	PASS
()			VN	-30	-11.06	-0.013067	±2.5	PASS
			VN	-20	-3.68	-0.004344	±2.5	PASS
			VN	-10	6.01	0.007101	±2.5	PASS
			VN	0	3.17	0.003749	±2.5	PASS
WCDMA8	TM1	НСН	VN	10	8.71	0.010291	±2.5	PASS
50			VN	20	13.43	0.015861	±2.5	PASS
			VN	30	-10.22	-0.012076	±2.5	PASS
9			VN	40	-2.88	-0.003406	±2.5	PASS
/		6	VN	50	-2.56	-0.003028	±2.5	PASS
Test Band	Test Mode	Test Channel	Test Volt.	Test	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
(6)	1		VN	-30	110.78	0.134050	±2.5	PASS
			VN	-20	47.93	0.057996	±2.5	PASS
WCDMA8	TM2	LCH	VN	-10	23.33	0.028232	±2.5	PASS
50	. 1712		VN	0	-53.56	-0.064809	±2.5	PASS
/			VN	10	-64.22	-0.077716	±2.5	PASS
		1						



Report No.: EED32J00113705 Page 143 of 169 -21.59 -0.026127VN 20 ±2.5 **PASS** 0.014845 12.27 VN 30 **PASS** ±2.5 -138.29-0.167341 VN 40 ±2.5 **PASS** -22.22-0.026884 VN 50 ±2.5 **PASS** -29.11 -0.034808 VN -30 **PASS** ±2.5 32.23 0.038530 VN -20 **PASS** ±2.5 -0.81-0.000967 VN -10 ±2.5 **PASS** 0.008173 6.84 VN 0 ±2.5 **PASS** WCDMA8 -13.69-0.016364 TM2 MCH VN 10 **PASS** ±2.5 50 51.96 0.062119 **PASS** VN 20 ±2.5 -60.27-0.072061 VN 30 ±2.5 PASS 76.71 0.091710 VN 40 ±2.5 **PASS** 99.93 0.119476 VN 50 ±2.5 **PASS** 57.39 0.067787 VN -30 **PASS** ±2.5 -25.67-0.030316 VN -20 ±2.5 **PASS** 24.44 0.028874 VN -10 ±2.5 **PASS** 37.70 0.044536 VN 0 ±2.5 **PASS** WCDMA8 33.97 0.040121 TM2 **HCH** VN 10 ±2.5 PASS 50 -4.71-0.005569 VN 20 ±2.5 **PASS** -44.28-0.052305 VN 30 **PASS** ±2.5 -1.33-0.001568 VN PASS 40 ±2.5 57.24 0.067607 VN 50 ±2.5 **PASS** Test Test Test Test Test Freq.Error Freq.vs.rated Limit Temp Verdict Volt. Band Mode Channel (Hz) (ppm) (ppm) 42.92 0.051940 VN -30 **PASS** ±2.5 77.39 0.093650 VN -20 ±2.5 PASS -64.99 -0.078639 VN -10 **PASS** ±2.5 27.92 0.033789 VN 0 **PASS** ±2.5 WCDMA8 12.02 0.014550 LCH TM3 VN 10 ±2.5 **PASS** 50 30.00 0.036301 VN 20 **PASS** ±2.5 45.78 0.055393 VN 30 ±2.5 **PASS** 35.84 0.043372 VN 40 **PASS** ±2.5 192.05 0.232390 VN 50 ±2.5 **PASS** 22.61 0.027037 VN **PASS** -30 ±2.5 31.49 0.037654 VN -20 ±2.5 **PASS** WCDMA8 32.29 0.038603 TM3 MCH VN -10 ±2.5 PASS 50 72.78 0.087021 VN 0 ±2.5 **PASS** -1.69-0.002025 VN 10 ±2.5 **PASS**



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		200011070		100			1 490 1 1		
		VN	20	21.97	0.026271	±2.5	PASS		
			VN	30	92.97	0.111157	±2.5	PASS	
1	6		VN	40	92.29	0.110336	±2.5	PASS	
(6)	9		VN	50	87.43	0.104535	±2.5	PASS	
			VN	-30	-48.00	-0.056702	±2.5	PASS	
	ТМЗ	HCH		VN	-20	18.91	0.022331	±2.5	PASS
1			VN	-10	-43.33	-0.051187	±2.5	PASS	
/			VN	0	-71.09	-0.083972	±2.5	PASS	
WCDMA8			VN	10	-28.29	-0.033416	±2.5	PASS	
50			VN	20	-31.88	-0.037651	±2.5	PASS	
			VN	30	46.07	0.054413	±2.5	PASS	
			VN	40	14.59	0.017231	±2.5	PASS	
			VN	50	7.05	0.008327	±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	3.94	0.002125	±2.5	PASS
(65	(3)		VN	-20	19.56	0.010560	±2.5	PASS
6	/		VN	-10	176.47	0.095264	±2.5	PASS
14/051444			VN	0	10.09	0.005445	±2.5	PASS
WCDMA1	TM1	LCH	VN	10	35.23	0.019020	±2.5	PASS
900			VN	20	-0.08	-0.000041	±2.5	PASS
2			VN	30	160.45	0.086615	±2.5	PASS
			VN	40	30.90	0.016681	±2.5	PASS
1			VN	50	-2.59	-0.001400	±2.5	PASS
(E)	(7)	мсн	VN	-30	-3.39	-0.001802	±2.5	PASS
	TM1		VN	-20	-8.44	-0.004488	±2.5	PASS
			VN	-10	-3.02	-0.001607	±2.5	PASS
M.			VN	0	-0.64	-0.000341	±2.5	PASS
WCDMA1			VN	10	-5.49	-0.002922	±2.5	PASS
900			VN	20	-0.92	-0.000487	±2.5	PASS
			VN	30	1.57	0.000836	±2.5	PASS
G	9		VN	40	-4.23	-0.002248	±2.5	PASS
6			VN	50	-3.34	-0.001777	±2.5	PASS
			VN	-30	161.58	0.084701	±2.5	PASS
WCDMA1			VN	-20	463.03	0.242728	±2.5	PASS
900	TM1	M1 HCH	VN	-10	322.66	0.169146	±2.5	PASS
/			VN	0	163.24	0.085573	±2.5	PASS



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Report No	. : EED3	2J0011370	5	10	5	(0,	Page 14	5 of 169
			VN	10	-53.09	-0.027828	±2.5	PASS
			VN	20	293.40	0.153804	±2.5	PASS
6	10		VN	30	511.58	0.268181	±2.5	PASS
	7		VN	40	-57.14	-0.029956	±2.5	PASS
			VN	50	304.06	0.159395	±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	125.64	0.067826	±2.5	PASS
			VN	-20	-51.82	-0.027974	±2.5	PASS
	(0)		VN	-10	5.16	0.002784	±2.5	PASS
10			VN	0	-33.04	-0.017834	±2.5	PASS
WCDMA1	TM2	LCH	VN	10	93.51	0.050478	±2.5	PASS
900			VN	20	8.38	0.004522	±2.5	PASS
	1		VN	30	-55.65	-0.030041	±2.5	PASS
			VN	40	1.40	0.000758	±2.5	PASS
			VN	50	57.53	0.031055	±2.5	PASS
/1			VN	-30	36.25	0.019285	±2.5	PASS
	(0)		VN	-20	124.34	0.066140	±2.5	PASS
			VN	-10	-17.75	-0.009439	±2.5	PASS
			VN	0	6.88	0.003660	±2.5	PASS
WCDMA1	TM2	MCH	VN	10	-28.52	-0.015170	±2.5	PASS
900			VN	20	85.60	0.045533	±2.5	PASS
			VN	30	-39.28	-0.020892	±2.5	PASS
			VN	40	40.42	0.021500	±2.5	PASS
			VN	50	113.91	0.060589	±2.5	PASS
(6)	9		VN	-30	-42.74	-0.022405	±2.5	PASS
			VN	-20	86.23	0.045202	±2.5	PASS
			VN	-10	152.07	0.079717	±2.5	PASS
			VN	0	43.53	0.022821	±2.5	PASS
WCDMA1	TM2	НСН	VN	10	57.21	0.029988	±2.5	PASS
900			VN	20	14.24	0.007463	±2.5	PASS
			VN	30	4.62	0.002424	±2.5	PASS
			VN	40	42.21	0.022125	±2.5	PASS
	/		VN	50	19.84	0.010399	±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	-17.96	-0.009695	±2.5	PASS
			VN	-20	40.22	0.021714	±2.5	PASS
			VN	-10	20.13	0.010865	±2.5	PASS
)		(C.)	VN	0	53.34	0.028798	±2.5	PASS
WCDMA1	TM3	LCH	VN	10	-19.00	-0.010255	±2.5	PASS
900			VN	20	136.43	0.073650	±2.5	PASS
(3			VN	30	-13.49	-0.007282	±2.5	PASS
10			VN	40	-143.78	-0.077620	±2.5	PASS
			VN	50	-78.05	-0.042134	±2.5	PASS
		20-	VN	-30	-56.81	-0.030217	±2.5	PASS
-)			VN	-20	52.92	0.028148	±2.5	PASS
/		0	VN	-10	13.72	0.007297	±2.5	PASS
			VN	0	72.46	0.038545	±2.5	PASS
WCDMA1	TM3	MCH	VN	10	2.59	0.001380	±2.5	PASS
900			VN	20	23.25	0.012369	±2.5	PASS
6			VN	30	91.28	0.048552	±2.5	PASS
			VN	40	-46.69	-0.024836	±2.5	PASS
			VN	50	135.54	0.072098	±2.5	PASS
)		(3)	VN	-30	-53.21	-0.027892	±2.5	PASS
			VN	-20	7.74	0.004055	±2.5	PASS
			VN	-10	25.67	0.013454	±2.5	PASS
13			VN	0	-23.96	-0.012558	±2.5	PASS
WCDMA1	TM3	HCH	VN	10	-26.50	-0.013894	±2.5	PASS
900			VN	20	27.42	0.014374	±2.5	PASS
			VN	30	56.05	0.029380	±2.5	PASS
			VN	40	-29.07	-0.015238	±2.5	PASS
)		(1)	VN	50	-5.98	-0.003136	±2.5	PASS





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

	Гиали	Z*5	Detector	DDW	\/D\//	Damark
	Freque	A 1	Detector	RBW	VBW	Remark
	30MHz-	1GHz peak		120kHz	300kHz	Peak
	Above '	1GHz	Peak	1MHz	3MHz	Peak
Measurement Procedure:	Anechoic Clength. 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 transmenthe antenna 6) A signal at radiating copolarized, for the signal and the signal at radiating copolarized, for the signal and the signal at radiating copolarized, for the signal and the signal at radiating copolarized, for the signal and the signal at radiating copolarized, for the signal and the	vas powered Chamber. To dulation moderniter under vas set 3 moderne of the land land land land land land land land	eters(above 180 antenna, which a transmitter was fom 1m to 4m the fundamental ende. In the fundamental ende. In the fundamental ende en removed and ence was fed to both the substitution antenna was ra	ne transmitter asuring received. The distant was mounted as maximized of the receive ant mission was received. The substitutition and the rised and lower assuring the substitution and the rised and lower assuring received.	was extended wer shall be to the contract on the test receive anter the another and as the central breceive anter the contract of the contract	ed to its maximum uned to the frequence of away from the of a variable-height ceiver display by rotating through 360
Limit:	field streng 7) The output 8) Steps 6) ar 9) Calculate p ERP(dl EIRP=l where: Pg is the gener 10) Test the El 11) The radiation	oth level in spower into and 7)were repower in dB (Bm) = Pg(dBm) =	step 3) is obtained the substitution repeated with both means by the following many and the following many and the following many and the following many are performed to the following many are performed the X axis for until all free following many are performed to the following many are performed the X axis for until all free following many are performed to the following many are perform	ed for this set antenna was th antennas page formula: is (dB) + anteres (dB) + an	of conditions then measure polarized. Inna gain (dBonna	red. d) ii) nest channel oning for EUT se case. omplete.
Limit:	field streng 7) The output 8) Steps 6) ar 9) Calculate p ERP(dl EIRP=l where: Pg is the gener 10) Test the El 11) The radiation	oth level in spower into and 7)were repower in dB (Bm) = Pg(dBm) =	step 3) is obtained the substitution the substitution epeated with bound by the following the following by t	ed for this set antenna was th antennas pag formula: s (dB) + anters (dB	of conditions then measure polarized. Inna gain (dBonna	red. d) iest channel oning for EUT se case. omplete. DMA/HSDPA
Limit:	field streng 7) The output 8) Steps 6) ar 9) Calculate p ERP(dl EIRP=l where: Pg is the gene 10) Test the El 11) The radiati operation r 12) Repeat abo	pth level in some power into and 7) were recover in dB (Bm) = Pg(dBm) = Pg(d	step 3) is obtained the substitution repeated with both means by the following many and the following many and the following many and the following many are performed the X axis for and the X axis for any	ed for this set antenna was th antennas ping formula: is (dB) + anteres (dB) + an	of conditions then measure polarized. Inna gain (dBonna gain (dBonna gain (dBonna gain (dBonna)) Intenna. Innel the High, Z axis position it is wors sured was constituted was constituted was constituted.	red. d) iest channel oning for EUT se case. omplete. DMA/HSDPA





Measurement Data



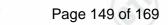


			G	PRS 850			21-22
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
100/004.0	150	154	20.16	38.45	-18.29	Pass	Н
128/824.2	150	206	23.15	38.45	-15.30	Pass	V
400/00C C	150	223	20.64	38.45	-17.81	Pass	Н
190/836.6	150	127	23.47	38.45	-14.98	Pass	V
254/040.0	150	175	21.41	38.45	-17.04	Pass	н
251/848.8	150	132	23.03	38.45	-15.42	Pass	V

	\) EI	DGE 850			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
128/824.2	150	127	18.53	38.45	-19.92	Pass	Н
120/024.2	150	321	20.75	38.45	-17.70	Pass	V
100/000 0	150	185	20.24	38.45	-18.21	Pass	н (🔊
190/836.6	150	175	22.33	38.45	-16.12	Pass	V
251/040.0	150	215	18.35	38.45	-20.10	Pass	Н
251/848.8	150	174	22.12	38.45	-16.33	Pass	V
	\	(4)	1	1	40		

(0.)	/	6.	WCD	MA band \	197		6
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
4132/	150	198	15.67	38.45	-22.78	Pass	Н
826.4	150	125	18.52	38.45	-19.93	Pass	V
4182/	150	115	14.55	38.45	-23.90	Pass	н
836.6	150	219	16.76	38.45	-21.69	Pass	V
4233/	150	154	16.24	38.45	-22.21	Pass	Н
846.6	150	211	18.58	38.45	-19.87	Pass	V



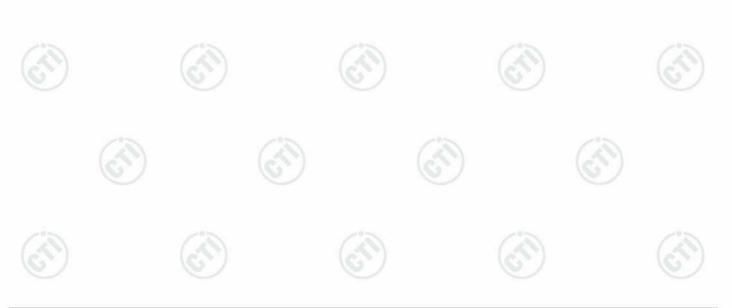




			HSD	PA band \	1		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
4132/	150	137	16.16	38.45	-22.29	Pass	Н
826.4	150	158	17.34	38.45	-21.11	Pass	V
4182/	150	158	14.57	38.45	-23.88	Pass	Н
836.6	150	145	16.53	38.45	-21.92	Pass	V
4233/	150	245	16.18	38.45	-22.27	Pass	H (G)
846.6	150	167	17.56	38.45	-20.89	Pass	V

	HSUPA band V										
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.				
4132/	150	184	15.08	38.45	-23.37	Pass	Н				
826.4	150	197	16.76	38.45	-21.69	Pass	V				
4182/	150	125	15.33	38.45	-23.12	Pass	Н				
836.6	150	113	17.57	38.45	-20.88	Pass	V				
4233/	150	251	16.02	38.45	-22.43	Pass	Н				
846.6	150	174	17.85	38.45	-20.60	Pass	V				

(24)		(250)	GF	PRS 1900	-477		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
512/1850.2	150	211	22.27	33.01	-10.74	Pass	Н
512/1650.2	150	130	24.39	33.01	-8.62	Pass	V
CC4/4000 0	150	150	22.17	33.01	-10.84	Pass	H (CV)
661/1880.0	150	163	23.52	33.01	-9.49	Pass	V
940/4000 9	150	174	20.62	33.01	-12.39	Pass	Н
810/1909.8	150	179	23.41	33.01	-9.60	Pass	V







			ΕC	OGE1900			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
512/1850.2	150	315	19.78	33.01	-13.23	Pass	Н
512/1650.2	150	237	21.16	33.01	-11.85	Pass	V
661/1880.0	150	252	19.77	33.01	-13.24	Pass	Н
001/1000.0	150	219	22.19	33.01	-10.82	Pass	V
040/4000 0	150	251	18.27	33.01	-14.74	Pass	н (🔊)
810/1909.8	150	320	20.57	33.01	-12.44	Pass	V

			WCE	MA band I	I		
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
0000/4050 4	150	153	16.74	33.01	-16.27	Pass	Н
9262/1852.4	150	133	18.96	33.01	-14.05	Pass	V
0400/4990 0	150	135	14.51	33.01	-18.50	Pass	Н
9400/1880.0	150	126	17.27	33.01	-15.74	Pass	V
0529/4007 6	150	352	15.12	33.01	-17.89	Pass	н
9538/1907.6	150	173	16.33	33.01	-16.68	Pass	V

		(20)	HSD	PA band II			
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
0262/4952 4	150	285	15.34	33.01	-17.67	Pass	Н
9262/1852.4	150	158	16.52	33.01	-16.49	Pass	V
0.400/4.000.0	150	135	16.21	33.01	-16.80	Pass	Н (
9400/1880.0	150	127	17.53	33.01	-15.48	Pass	V
0520/4007.6	150	114	15.75	33.01	-17.26	Pass	Н
9538/1907.6	150	127	17.38	33.01	-15.63	Pass	V

(0,		(0,	HSL	JPA band II	(C)		(0,
Channel/fc (MHz)	Height (cm)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
9262/1852.4	150	242	14.41	33.01	-18.60	Pass	Н
9202/1002.4	150	255	15.73	33.01	-17.28	Pass	V
0.400/4000.0	150	114	15.47	33.01	-17.54	Pass	н
9400/1880.0	150	341	17.33	33.01	-15.68	Pass	V
0520/4007.6	150	233	15.44	33.01	-17.57	Pass	Н
9538/1907.6	150	254	16.46	33.01	-16.55	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					
Procedure:	 2. The technique used to antenna substitution mactual ERP/EIRP emis Test procedure as below: 1) The EUT was powered Anechoic Chamber. The length, modulation material materials in the transmitted of the transmitted in the second of the second of the transmitted in the second of th	ethod. Substitusion levels of the ON and place on the antenna of the and the me	ition method ne EUT. d on a 1.5m ne transmitte asuring rece	l was perfor hight table er was exte	med to deterr at a 3 meter nded to its ma	nine the fully iximum
	 The EUT was set 3 me interference-receiving antenna tower. The disturbance of the raising and lowering from 360° the turntable. After the interference interferen	eters(above 180 antenna, which transmitter was om 1m to 4m ther the fundamer	GHz the dist was mount s maximized se receive a	ed on the to d on the test ntenna and	op of a variable treceiver disp by rotating the	e-height lay by rough
	measurement was mad4) Steps 1) to 3) were per and horizontal polariza5) The transmitter was the	formed with the tion.	d replaced v	with another	antenna. The	e center
	the antenna was appro 6) A signal at the disturba radiating cable. With be polarized, the receive a reading at the test rece measured field strength	nce was fed to oth the substitu antenna was ra eiver. The level	the substitution and the ised and low of the signa	ition antenn receive an wered to ob al generator	a by means o tennas horizo tain a maximu was adjusted	f a non- ntally m until the
	7) The output power into the steps 6) and 7)were reference 9) Calculate power in dBrunder ERP(dBm) = Pg(dE EIRP(dBm) = Pg(dE EIRP=ERP+2.15dE	the substitution peated with bo n by the followi Bm) – cable los Bm) – cable los	antenna wa th antennas ng formula: s (dB) + ant	as then mea polarized. enna gain (asured. dBd)	
	where: Pg is the generator ou 10) Test the EUT in the lov 11) The radiation measure operation mode,And for 12) Repeat above procedu	tput power into vest channel, the ments are perfound 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+10le	1 -69, 77 1		7 40 70		





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.
1668.044	149	14	-53.93	-13.00	-40.93	Pass	Н
2065.715	150	124	-56.61	-13.00	-43.61	Pass	Н
2610.823	150	360	-57.83	-13.00	-44.83	Pass	н
3644.175	150	359	-57.92	-13.00	-44.92	Pass	н
4712.547	151	147	-56.89	-13.00	-43.89	Pass	Н
6187.929	150	124	-51.78	-13.00	-38.78	Pass	Н
1668.044	152	78	-52.81	-13.00	-39.81	Pass	V
2065.715	150	99	-55.75	-13.00	-42.75	Pass	V
2468.631	150	147	-56.95	-13.00	-43.95	Pass	V
3738.129	149	154	-57.46	-13.00	-44.46	Pass	V
6203.700	150	167	-51.98	-13.00	-38.98	Pass	V
7282.792	150	347	-46.27	-13.00	-33.27	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.
1668.044	151	226	-52.66	-13.00	-39.66	Pass	Н
2018.928	150	21	-55.54	-13.00	-42.54	Pass	Н
2590.961	150	360	-56.81	-13.00	-43.81	Pass	Ho
3561.636	152	70	-56.97	-13.00	-43.97	Pass	Н (А
5836.044	150	148	-51.56	-13.00	-38.56	Pass	н
6730.187	149	97	-51.88	-13.00	-38.88	Pass	Н
1668.044	149	27	-52.14	-13.00	-39.14	Pass	V
2050.000	150	100	-55.67	-13.00	-42.67	Pass	V
2691.804	151	359	-57.23	-13.00	-44.23	Pass	V
3738.129	150	20	-57.51	-13.00	-44.51	Pass	V
5940.967	150	147	-51.32	-13.00	-38.32	Pass	V
9611.663	150	100	-47.23	-13.00	-34.23	Pass	V







		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.
1668.044	151	351	-52.25	-13.00	-39.25	Pass	Н
1973.201	150	200	-55.11	-13.00	-42.11	Pass	Н
2584.374	149	316	-57.27	-13.00	-44.27	Pass	Н
3672.110	149	100	-58.41	-13.00	-45.41	Pass	Н (г
5865.832	150	79	-52.49	-13.00	-39.49	Pass	н
7081.697	151	10	-54.00	-13.00	-41.00	Pass	Н
1668.044	150	47	-52.54	-13.00	-39.54	Pass	V
2024.074	150	100	-55.80	-13.00	-42.80	Pass	V
2957.654	149	360	-57.23	-13.00	-44.23	Pass	V
3216.838	149	70	-57.34	-13.00	-44.34	Pass	V
5880.782	150	27	-51.39	-13.00	-38.39	Pass	V
6764.538	152	210	-52.12	-13.00	-39.12	Pass	V

		EGPRS 8	50 128channel/824	.2MHz(low	est channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	149	356	-53.58	-13.00	-40.58	Pass	Н
1889.633	150	147	-55.81	-13.00	-42.81	Pass	Н
2506.624	151	97	-57.02	-13.00	-44.02	Pass	H /
3757.208	150	100	-57.46	-13.00	-44.46	Pass	н (💰
5850.919	151	110	-51.78	-13.00	-38.78	Pass	Н
7009.956	149	57	-52.23	-13.00	-39.23	Pass	Н
1663.803	150	248	-53.11	-13.00	-40.11	Pass	V
2394.363	150	220	-57.36	-13.00	-44.36	Pass	V
2726.283	149	10	-58.27	-13.00	-45.27	Pass	V
4170.530	151	100	-57.74	-13.00	-44.74	Pass	V
5325.007	150	38	-54.83	-13.00	-41.83	Pass	V
6172.197	150	360	-51.52	-13.00	-38.52	Pass	V







		EGPRS 8					
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	151	352	-52.36	-13.00	-39.36	Pass	Н
2044.788	150	167	-56.69	-13.00	-43.69	Pass	Н
2513.013	149	91	-57.24	-13.00	-44.24	Pass	H
3283.018	150	211	-57.61	-13.00	-44.61	Pass	Н (е
4712.547	151	100	-57.76	-13.00	-44.76	Pass	Н
7009.956	151	360	-51.99	-13.00	-38.99	Pass	Н
1668.044	150	79	-53.58	-13.00	-40.58	Pass	V
1938.352	150	70	-56.57	-13.00	-43.57	Pass	V
2352.076	149	254	-57.19	-13.00	-44.19	Pass	V
3738.129	149	100	-58.56	-13.00	-45.56	Pass	V
5732.974	150	10	-53.13	-13.00	-40.13	Pass	V
6235.364	150	78	-52.53	-13.00	-39.53	Pass	V

		EGPRS 85	50 251channel/848	.8MHz(higl	hest channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	151	331	-53.94	-13.00	-40.94	Pass	Н
2400.466	150	100	-56.38	-13.00	-43.38	Pass	Н
3672.110	150	261	-57.17	-13.00	-44.17	Pass	Н
5311.469	149	20	-54.40	-13.00	-41.40	Pass	H
5956.109	150	31	-52.15	-13.00	-39.15	Pass	н (🖒
6851.185	150	200	-53.82	-13.00	-40.82	Pass	н
1668.044	150	37	-52.75	-13.00	-39.75	Pass	V
2097.507	151	100	-55.76	-13.00	-42.76	Pass	V
2584.374	150	69	-57.28	-13.00	-44.28	Pass	V
3728.625	152	147	-57.05	-13.00	-44.05	Pass	V
5689.360	150	100	-51.46	-13.00	-38.46	Pass	V
7154.172	150	359	-53.20	-13.00	-40.20	Pass	V







		GPRS190	00 512channel/1850).2MHz(low	est channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1506.563	151	360	-58.51	-13.00	-45.51	Pass	Н
2118.973	150	121	-55.98	-13.00	-42.98	Pass	Н
2854.107	150	110	-58.08	-13.00	-45.08	Pass	Н 🦯
3653.463	150	11	-57.51	-13.00	-44.51	Pass	Н (А
4712.547	150	169	-56.30	-13.00	-43.30	Pass	н
5956.109	149	64	-51.22	-13.00	-38.22	Pass	Н
1479.955	150	278	-58.28	-13.00	-45.28	Pass	V
2097.507	151	200	-55.65	-13.00	-42.65	Pass	V
2664.535	150	220	-56.43	-13.00	-43.43	Pass	V
3672.110	152	360	-57.03	-13.00	-44.03	Pass	V
5257.662	149	359	-54.62	-13.00	-41.62	Pass	V
6267.190	150	341	-51.42	-13.00	-38.42	Pass	V

		GPRS19	00 661channel/188	0MHz(mid	dle channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1533.648	151	39	-58.65	-13.00	-45.65	Pass	Н
2229.645	150	360	-57.34	-13.00	-44.34	Pass	Н
2980.327	150	70	-58.67	-13.00	-45.67	Pass	Н
3662.775	149	61	-58.56	-13.00	-45.56	Pass	н
5204.399	150	359	-55.60	-13.00	-42.60	Pass	н 🌑
6299.178	151	241	-52.62	-13.00	-39.62	Pass	Н
1533.648	150	289	-58.23	-13.00	-45.23	Pass	V
2092.175	150	10	-56.66	-13.00	-43.66	Pass	V
3104.217	151	100	-57.91	-13.00	-44.91	Pass	V
3672.110	150	110	-57.55	-13.00	-44.55	Pass	V
5311.469	149	79	-54.15	-13.00	-41.15	Pass	V
7135.984	152	64	-52.08	-13.00	-39.08	Pass	V







Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1597.401	151	79	-57.84	-13.00	-44.84	Pass	Н
2151.585	149	146	-57.00	-13.00	-44.00	Pass	Н
2832.394	150	100	-59.01	-13.00	-46.01	Pass	H
3644.175	150	255	-58.67	-13.00	-45.67	Pass	Н (А
5151.676	151	10	-56.95	-13.00	-43.95	Pass	н
6267.190	150	360	-51.72	-13.00	-38.72	Pass	Н
1498.912	150	79	-58.34	-13.00	-45.34	Pass	V
1993.395	150	51	-55.73	-13.00	-42.73	Pass	V
2854.107	152	200	-58.11	-13.00	-45.11	Pass	V
3690.853	150	249	-56.49	-13.00	-43.49	Pass	V
5518.199	149	78	-54.57	-13.00	-41.57	Pass	V
6851.185	150	100	-53.24	-13.00	-40.24	Pass	V

		EGPRS 19	00 512channel/185	0.2MHz(lov	west channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1549.344	151	10	-58.30	-13.00	-45.30	Pass) н
2275.515	150	179	-55.33	-13.00	-42.33	Pass	Н
2905.419	150	141	-57.76	-13.00	-44.76	Pass	Н
3672.110	152	200	-57.58	-13.00	-44.58	Pass	H /
5776.922	150	201	-51.20	-13.00	-38.20	Pass	H (G)
7099.747	150	360	-52.53	-13.00	-39.53	Pass	Н
1518.111	150	70	-57.43	-13.00	-44.43	Pass	V
2092.175	149	89	-55.37	-13.00	-42.37	Pass	V
3208.660	149	100	-57.00	-13.00	-44.00	Pass	V
4676.696	151	211	-56.34	-13.00	-43.34	Pass	V
5791.646	150	64	-50.01	-13.00	-37.01	Pass	V
7209.015	150	278	-47.19	-13.00	-34.19	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.
1597.401	151	81	-56.57	-13.00	-43.57	Pass	Н
2140.659	150	64	-56.55	-13.00	-43.55	Pass	Н
3135.986	150	79	-57.10	-13.00	-44.10	Pass	H
4107.316	150	100	-57.69	-13.00	-44.69	Pass	н (С
6315.233	152	360	-50.91	-13.00	-37.91	Pass	н
7981.717	150	70	-54.24	-13.00	-41.24	Pass	Н
1498.912	150	10	-57.40	-13.00	-44.40	Pass	V
2140.659	150	61	-55.78	-13.00	-42.78	Pass	V
2796.573	149	104	-57.89	-13.00	-44.89	Pass	V
3786.010	149	110	-57.39	-13.00	-44.39	Pass	V
5986.509	150	101	-51.34	-13.00	-38.34	Pass	V
7081.697	150	360	-53.42	-13.00	-40.42	Pass	V

	E	EGPRS 190	0 810channel/190	9.8MHz(hi	ghest channe	l)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1597.401	151	316	-56.41	-13.00	-43.41	Pass	И
2018.928	150	70	-55.47	-13.00	-42.47	Pass	Н
2532.277	152	81	-56.95	-13.00	-43.95	Pass	Н
3176.155	150	226	-58.05	-13.00	-45.05	Pass	н
4245.509	149	210	-57.78	-13.00	-44.78	Pass	н
5895.771	150	101	-51.63	-13.00	-38.63	Pass	Н
1439.090	150	79	-58.34	-13.00	-45.34	Pass	V
2102.853	151	100	-55.88	-13.00	-42.88	Pass	V
3080.601	151	360	-58.15	-13.00	-45.15	Pass	V
4676.696	150	70	-56.69	-13.00	-43.69	Pass	V
6017.064	149	89	-51.68	-13.00	-38.68	Pass	V
7961.425	150	100	-53.81	-13.00	-40.81	Pass	V







	V	/CDMA ban	d V 4132 channel/	826.4MHz(lowest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1651.146	151	38	-50.50	-13.00	-37.50	Pass	Н
2008.676	150	161	-56.31	-13.00	-43.31	Pass	Н
2610.823	150	79	-58.58	-13.00	-45.58	Pass	H /
3786.010	149	271	-57.96	-13.00	-44.96	Pass	Н (г
5910.798	149	345	-52.45	-13.00	-39.45	Pass	н
7489.599	150	161	-55.06	-13.00	-42.06	Pass	Н
1651.146	150	332	-49.31	-13.00	-36.31	Pass	V
2223.977	151	100	-56.68	-13.00	-43.68	Pass	V
3104.217	152	147	-59.11	-13.00	-46.11	Pass	V
4191.816	150	10	-57.60	-13.00	-44.60	Pass	V
5865.832	151	360	-52.47	-13.00	-39.47	Pass	V
7663.165	150	14	-53.86	-13.00	-40.86	Pass	V

	W	CDMA ban	d V 4182 channel/8	836.4MHz(middle chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1655.354	151	352	-45.34	-13.00	-32.34	Pass	У н
2065.715	150	164	-55.17	-13.00	-42.17	Pass	Н
2597.564	150	79	-56.97	-13.00	-43.97	Pass	Н
3552.582	152	100	-57.60	-13.00	-44.60	Pass	H /
4688.616	150	258	-56.33	-13.00	-43.33	Pass	H (G)
6235.364	150	76	-50.73	-13.00	-37.73	Pass	Н
1668.044	149	360	-51.64	-13.00	-38.64	Pass	V
2263.960	150	124	-56.13	-13.00	-43.13	Pass	V
2839.613	149	10	-57.13	-13.00	-44.13	Pass	V
3552.582	150	360	-57.22	-13.00	-44.22	Pass	V
5895.771	150	70	-51.99	-13.00	-38.99	Pass	V
7099.747	150	281	-53.19	-13.00	-40.19	Pass	V







	W	CDMA ban	d V 4233 channel/8	346.6MHz(h	nighest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1689.410	151	332	-49.99	-13.00	-36.99	Pass	Н
2179.145	150	161	-55.83	-13.00	-42.83	Pass	Н
2861.381	151	316	-58.36	-13.00	-45.36	Pass	Н
3786.010	150	100	-57.18	-13.00	-44.18	Pass	н (С
5762.235	150	24	-53.03	-13.00	-40.03	Pass	н
7820.819	150	144	-53.11	-13.00	-40.11	Pass	Н
1689.410	149	179	-49.94	-13.00	-36.94	Pass	V
2092.175	150	10	-55.10	-13.00	-42.10	Pass	V
2775.298	152	46	-57.12	-13.00	-44.12	Pass	V
3653.463	151	147	-57.78	-13.00	-44.78	Pass	V
5865.832	150	100	-51.76	-13.00	-38.76	Pass	V
7820.819	150	50	-53.80	-13.00	-40.80	Pass	V

	F	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.
1651.146	151	159	-49.90	-13.00	-36.90	Pass	Н
2168.079	152	170	-56.46	-13.00	-43.46	Pass	Н
3192.366	150	160	-58.82	-13.00	-45.82	Pass	Н
4107.316	150	100	-57.92	-13.00	-44.92	Pass	H /
5674.896	149	360	-53.17	-13.00	-40.17	Pass	н
7135.984	150	79	-52.71	-13.00	-39.71	Pass	Н
1651.146	150	247	-49.39	-13.00	-36.39	Pass	V
2195.850	149	220	-57.72	-13.00	-44.72	Pass	V
3088.453	150	200	-56.99	-13.00	-43.99	Pass	V
4688.616	151	21	-57.49	-13.00	-44.49	Pass	V
6251.257	149	156	-52.53	-13.00	-39.53	Pass	V
7961.425	150	100	-55.10	-13.00	-42.10	Pass	V

















	Н	ISDPA band	d V 4182 channel/8	36.4MHz(n	niddle channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	151	39	-49.02	-13.00	-36.02	Pass	Н
2124.374	152	161	-56.46	-13.00	-43.46	Pass	Н
2854.107	150	78	-57.32	-13.00	-44.32	Pass	H /
3700.260	150	351	-58.43	-13.00	-45.43	Pass	Н (г
5060.693	150	349	-56.06	-13.00	-43.06	Pass	Н
6816.394	151	217	-52.83	-13.00	-39.83	Pass	Н
1668.044	150	100	-47.65	-13.00	-34.65	Pass	V
2513.013	150	145	-53.69	-13.00	-40.69	Pass	V
3719.146	149	360	-57.40	-13.00	-44.40	Pass	V
5230.963	149	54	-53.42	-13.00	-40.42	Pass	V
6299.178	150	100	-51.76	-13.00	-38.76	Pass	V
7585.533	150	246	-53.67	-13.00	-40.67	Pass	V

	H	SDPA 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.
1689.410	151	326	-46.38	-13.00	-33.38	Pass	И
2102.853	150	100	-56.06	-13.00	-43.06	Pass	Н
2754.185	150	172	-58.37	-13.00	-45.37	Pass	Н
3662.775	149	98	-58.25	-13.00	-45.25	Pass	H/
5244.295	150	47	-54.54	-13.00	-41.54	Pass	н
6747.341	150	100	-53.33	-13.00	-40.33	Pass	Н
1689.410	150	284	-49.63	-13.00	-36.63	Pass	V
2113.586	151	100	-55.30	-13.00	-42.30	Pass	V
2839.613	150	61	-57.77	-13.00	-44.77	Pass	V
4202.500	149	360	-57.49	-13.00	-44.49	Pass	V
5910.798	150	79	-51.34	-13.00	-38.34	Pass	V
7663.165	150	56	-52.96	-13.00	-39.96	Pass	V















	H	ISUPA band	d V 4132 channel/8	326.4MHz(lo	owest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1651.146	152	229	-50.84	-13.00	-37.84	Pass	Н
2481.231	152	170	-56.32	-13.00	-43.32	Pass	Н
3672.110	150	80	-55.99	-13.00	-42.99	Pass	Н
4785.075	150	100	-56.14	-13.00	-43.14	Pass	н (с
5836.044	149	36	-52.13	-13.00	-39.13	Pass	н
7663.165	150	79	-53.90	-13.00	-40.90	Pass	Н
1651.146	150	332	-48.36	-13.00	-35.36	Pass	V
2481.231	152	220	-56.51	-13.00	-43.51	Pass	V
3463.291	150	88	-59.17	-13.00	-46.17	Pass	V
4712.547	152	21	-56.77	-13.00	-43.77	Pass	V
6331.329	149	156	-52.74	-13.00	-39.74	Pass	V
7820.819	150	109	-54.93	-13.00	-41.93	Pass	V

	Н	SUPA 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.
1668.044	150	55	-49.50	-13.00	-36.50	Pass	Н
2118.973	152	192	-56.80	-13.00	-43.80	Pass	Н
2617.477	150	78	-57.60	-13.00	-44.60	Pass	Н
3672.110	150	351	-58.47	-13.00	-45.47	Pass	н
4724.558	150	169	-55.95	-13.00	-42.95	Pass	H G
5880.782	151	217	-50.70	-13.00	-37.70	Pass	Н
1668.044	150	158	-49.79	-13.00	-36.79	Pass	V
2102.853	152	145	-55.70	-13.00	-42.70	Pass	V
2712.439	149	226	-57.31	-13.00	-44.31	Pass	V
3662.775	149	54	-57.73	-13.00	-44.73	Pass	V
5047.827	150	100	-56.19	-13.00	-43.19	Pass	V
5956.109	150	33	-51.67	-13.00	-38.67	Pass	V







Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1689.410	152	86	-46.70	-13.00	-33.70	Pass	Н
2538.731	149	226	-55.85	-13.00	-42.85	Pass	Н
3653.463	150	172	-58.13	-13.00	-45.13	Pass	H
5257.662	149	98	-55.46	-13.00	-42.46	Pass	н (г
6544.350	150	99	-53.34	-13.00	-40.34	Pass	н
7941.185	150	100	-55.62	-13.00	-42.62	Pass	Н
1693.716	150	332	-49.81	-13.00	-36.81	Pass	V
2538.731	151	100	-54.08	-13.00	-41.08	Pass	V
3672.110	151	89	-57.10	-13.00	-44.10	Pass	V
4676.696	149	360	-56.59	-13.00	-43.59	Pass	V
5674.896	150	79	-52.51	-13.00	-39.51	Pass	V
6799.064	150	10	-52.04	-13.00	-39.04	Pass	V

		1				1	100
	W	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.
1668.044	151	351	-53.86	-13.00	-40.86	Pass) н
2263.960	150	200	-56.64	-13.00	-43.64	Pass	Н
3088.453	150	217	-56.45	-13.00	-43.45	Pass	Н
4594.102	151	96	-56.84	-13.00	-43.84	Pass	Н
5986.509	150	100	-51.40	-13.00	-38.40	Pass	H (G)
7961.425	149	351	-53.55	-13.00	-40.55	Pass	Н
1565.200	150	70	-58.09	-13.00	-45.09	Pass	V
2201.447	150	151	-57.18	-13.00	-44.18	Pass	V
3128.013	150	100	-57.74	-13.00	-44.74	Pass	V
4128.280	149	21	-58.68	-13.00	-45.68	Pass	V
5940.967	149	10	-52.63	-13.00	-39.63	Pass	V
7961.425	150	360	-54.53	-13.00	-41.53	Pass	V



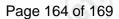




	V	VCDMA bar	nd II 9400 channel/	1880MHz(n	niddle channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1533.648	151	91	-57.69	-13.00	-44.69	Pass	Н
2449.851	150	100	-55.76	-13.00	-42.76	Pass	Н
3128.013	150	360	-57.76	-13.00	-44.76	Pass	H
4107.316	149	351	-57.90	-13.00	-44.90	Pass	Н (г
5762.235	150	359	-51.08	-13.00	-38.08	Pass	н
7941.185	150	240	-54.05	-13.00	-41.05	Pass	Н
1668.044	150	100	-52.24	-13.00	-39.24	Pass	V
2425.032	151	248	-57.08	-13.00	-44.08	Pass	V
3653.463	150	358	-57.87	-13.00	-44.87	Pass	V
5546.364	151	70	-52.84	-13.00	-39.84	Pass	V
6851.185	150	154	-52.50	-13.00	-39.50	Pass	V
9834.406	150	100	-51.79	-13.00	-38.79	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.
1597.401	151	331	-58.15	-13.00	-45.15	Pass	Н
2346.097	150	100	-56.51	-13.00	-43.51	Pass	Н
3249.760	150	147	-58.84	-13.00	-45.84	Pass	Н
4664.807	149	154	-57.72	-13.00	-44.72	Pass	н
5971.290	150	121	-52.04	-13.00	-39.04	Pass	н
7981.717	150	76	-54.71	-13.00	-41.71	Pass	Н
1668.044	149	49	-54.39	-13.00	-41.39	Pass	V
2456.095	150	100	-56.75	-13.00	-43.75	Pass	V
3258.042	151	67	-58.07	-13.00	-45.07	Pass	V
4676.696	150	100	-56.09	-13.00	-43.09	Pass	V
5762.235	151	360	-51.79	-13.00	-38.79	Pass	V
7099.747	150	40	-53.57	-13.00	-40.57	Pass	V



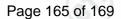




	Н	SDPA band	d II 9262 channel/18	352.4MHz(lowest channe	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1668.044	151	61	-54.93	-13.00	-41.93	Pass	Н
2328.249	150	200	-57.83	-13.00	-44.83	Pass	Н
3672.110	150	157	-58.53	-13.00	-45.53	Pass	Н
5125.515	150	241	-55.49	-13.00	-42.49	Pass	н (А
5956.109	152	100	-52.31	-13.00	-39.31	Pass	н
8229.291	150	169	-54.59	-13.00	-41.59	Pass	Н
1483.727	149	254	-58.55	-13.00	-45.55	Pass	V
2050.000	150	26	-56.91	-13.00	-43.91	Pass	V
2678.135	151	100	-58.51	-13.00	-45.51	Pass	V
3662.775	150	332	-58.26	-13.00	-45.26	Pass	V
5352.186	150	159	-54.83	-13.00	-41.83	Pass	V
6868.647	150	100	-53.64	-13.00	-40.64	Pass	V

		HSDPA ban	d II 9400 channel/1	880MHz(n	niddle channe	1)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1479.955	151	151	-58.80	-13.00	-45.80	Pass	Н
2102.853	150	79	-55.65	-13.00	-42.65	Pass	Н
2506.624	150	360	-58.11	-13.00	-45.11	Pass	Н
3233.257	152	200	-58.97	-13.00	-45.97	Pass	H /
4223.950	152	157	-58.27	-13.00	-45.27	Pass	н
5448.410	150	149	-54.95	-13.00	-41.95	Pass	Н
1498.912	150	217	-59.42	-13.00	-46.42	Pass	V
2218.323	151	360	-57.33	-13.00	-44.33	Pass	V
2796.573	151	100	-58.24	-13.00	-45.24	Pass	V
3681.469	150	243	-58.49	-13.00	-45.49	Pass	V
6299.178	149	100	-51.52	-13.00	-38.52	Pass	V
7941.185	150	100	-54.59	-13.00	-41.59	Pass	V







	Н	SDPA band	I II 9538 channel/19	007.6MHz(h	nighest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1514.252	151	37	-58.51	-13.00	-45.51	Pass	Н
2287.130	150	60	-57.23	-13.00	-44.23	Pass	Н
2905.419	149	360	-57.96	-13.00	-44.96	Pass	H
3963.520	150	79	-59.47	-13.00	-46.47	Pass	Н (А
5518.199	150	151	-54.39	-13.00	-41.39	Pass	н
6903.705	149	247	-54.10	-13.00	-41.10	Pass	Н
1597.401	150	291	-58.06	-13.00	-45.06	Pass	V
2151.585	150	200	-57.00	-13.00	-44.00	Pass	V
2678.135	151	147	-56.61	-13.00	-43.61	Pass	V
3672.110	150	10	-57.73	-13.00	-44.73	Pass	V
4772.910	151	36	-57.34	-13.00	-44.34	Pass	V
5971.290	150	111	-52.76	-13.00	-39.76	Pass	V

		1				1	1000
	Н	SUPA 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.
1597.401	152	59	-57.50	-13.00	-44.50	Pass	Н
2146.115	150	20	-57.02	-13.00	-44.02	Pass	Н
2684.961	150	332	-57.63	-13.00	-44.63	Pass	Н
3241.498	151	97	-58.12	-13.00	-45.12	Pass	Н
4712.547	149	132	-56.38	-13.00	-43.38	Pass	н 🚱
6315.233	149	351	-52.66	-13.00	-39.66	Pass	Н
1498.912	150	70	-58.36	-13.00	-45.36	Pass	V
2108.213	150	151	-56.27	-13.00	-43.27	Pass	V
2927.691	150	109	-58.97	-13.00	-45.97	Pass	V
3672.110	150	21	-58.56	-13.00	-45.56	Pass	V
4760.776	149	109	-57.46	-13.00	-44.46	Pass	V
6017.064	150	360	-52.48	-13.00	-39.48	Pass	V





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	ŀ	HSUPA ban	d II 9400 channel/1	880MHz(m	niddle channe	l)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1597.401	151	229	-57.39	-13.00	-44.39	Pass	Н
2086.856	152	100	-55.84	-13.00	-42.84	Pass	Н
2810.846	150	26	-58.03	-13.00	-45.03	Pass	Н
3681.469	149	351	-57.93	-13.00	-44.93	Pass	н (г
4688.616	150	359	-57.95	-13.00	-44.95	Pass	н
6299.178	150	240	-52.51	-13.00	-39.51	Pass	Н
1597.401	150	19	-56.38	-13.00	-43.38	Pass	V
2173.605	151	248	-56.17	-13.00	-43.17	Pass	V
2868.674	151	358	-58.05	-13.00	-45.05	Pass	V
3776.385	151	70	-58.62	-13.00	-45.62	Pass	V
5532.263	150	154	-54.11	-13.00	-41.11	Pass	V
6886.154	150	100	-53.58	-13.00	-40.58	Pass	V

	H	SUPA band	II 9538 channel/19	07.6MHz(ł	nighest chann	el)	
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1557.252	152	87	-57.44	-13.00	-44.44	Pass	Н
2258.204	150	100	-56.18	-13.00	-43.18	Pass	Н
3266.346	149	89	-57.55	-13.00	-44.55	Pass	Н
4159.927	149	154	-57.58	-13.00	-44.58	Pass	н
6001.768	150	121	-51.96	-13.00	-38.96	Pass	н
7413.726	150	76	-53.82	-13.00	-40.82	Pass	Н
1668.044	149	99	-54.67	-13.00	-41.67	Pass	V
2513.013	150	100	-57.25	-13.00	-44.25	Pass	V
3241.498	151	67	-58.68	-13.00	-45.68	Pass	V
4181.159	150	100	-58.28	-13.00	-45.28	Pass	V
5352.186	151	229	-54.12	-13.00	-41.12	Pass	V
6331.329	150	40	-53.71	-13.00	-40.71	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 model No.: WPP23



Radiated spurious emission Test Setup-1(9kHz-30MHz)



Radiated spurious emission Test Setup-1(30MHz-1GHz)













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









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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00113702 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

