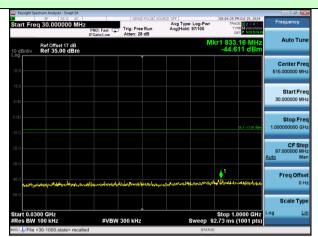
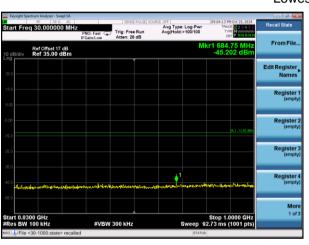
PCS1900 (GPRS 1 link)

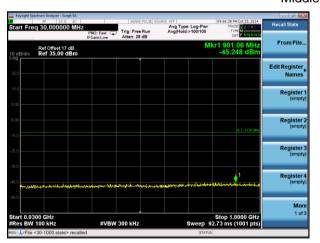




Lowest channel



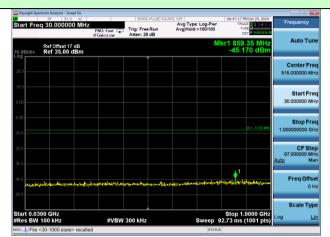






Highest channel

PCS1900 (EGPRS 1 link)

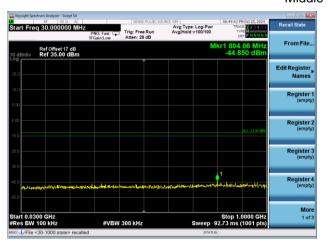




Lowest channel



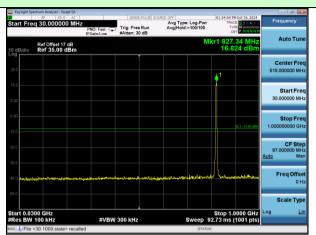






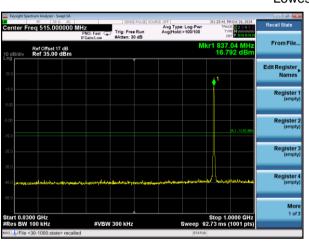
Highest channel

WCDMA Band V (RMC 12.2Kbps link)

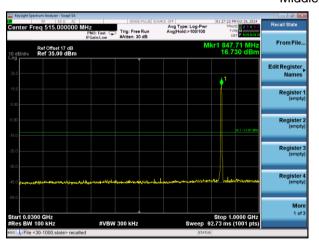




Lowest channel



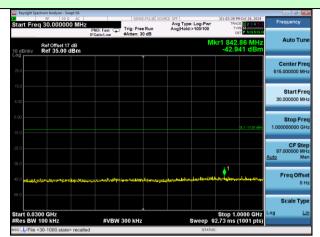






Highest channel

WCDMA Band II (RMC 12.2Kbps link)

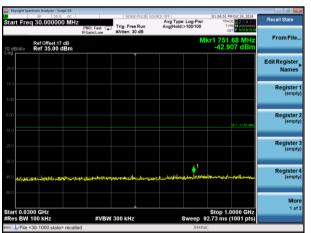




Lowest channel



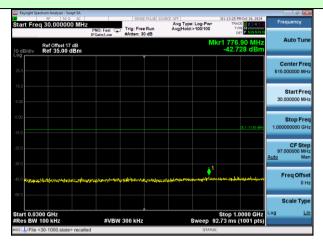






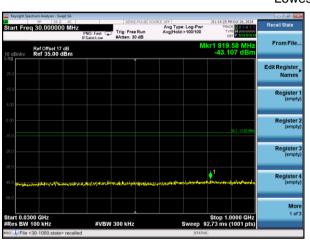
Highest channel

WCDMA Band IV (RMC 12.2Kbps link)

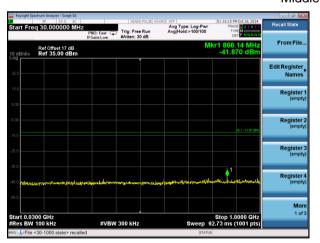




Lowest channel









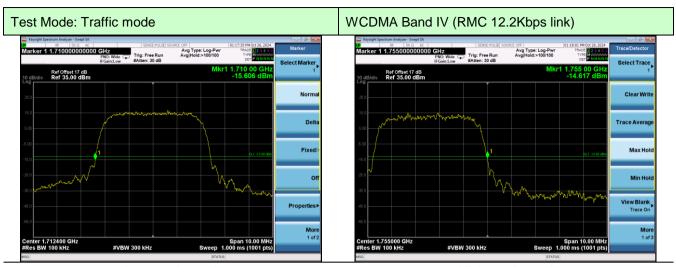
Highest channel

Band Edge: Test Mode: Traffic mode GSM850 (GPRS 1 link) Avg Type: Log-Pwr Avg|Hold:>100/100 Avg Type: Log-Pw Avg|Hold:>100/100 Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBm Span 2.000 MH Sweep 210.9 ms (1001 pts Lowest channel Highest channel GSM850 (EGPRS 1 link) Test Mode: Traffic mode Start Freq 823.200000 MHz Start Freq 847.800000 MHz Avg Type: Log-Pwr AvglHold:>100/100 Avg Type: Log-Pw Avg|Hold:>100/100 Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBm Span 2.000 MH ep 210.9 ms (1001 pts Span 2.000 MH Sweep 210.9 ms (1001 pt Lowest channel Highest channel Test Mode: Traffic mode PCS1900 (GPRS 1 link) Avg Type: Log-Pwr Avg|Hold:>100/100 Avg Type: Log-Pwr AvgiHold:>100/100 Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBm Span 2.000 Mi Sweep 210.9 ms (1001 pt enter 1.909800 GHz Res BW 3.0 kHz Span 2.000 MH Sweep 210.9 ms (1001 pt

Lowest channel Highest channel

PCS1900 (EGPRS 1 link) Test Mode: Traffic mode Avg Type: Log-Pwr Avg|Hold:>100/100 Avg Type: Log-Pwr Avg|Hold:>100/100 Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBm Center Fre Fixed Span 2.000 MHz Sweep 210.9 ms (1001 pts) enter 1.909800 GHz Res BW 3.0 kHz Span 2.000 MH Sweep 210.9 ms (1001 pts Lowest channel Highest channel WCDMA Band V (RMC 12.2Kbps link) Test Mode: Traffic mode RF | S0 Ω AC | arker 1 824.000000000 MHz Avg Type: Log-Pwr Avg|Hold:>100/100 RBW 100 kHz Avg Type: Log-Pwr Avg|Hold:>100/100 824.00 -16.434 (Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBm Highest channel Lowest channel Test Mode: Traffic mode WCDMA Band II (RMC 12.2Kbps link) NF | S0 Ω AC | Start Freq 1.845000000 GHz Avg Type: Log-Pwr AvgiHold:>100/100 Ref Offset 17 dB Ref 35.00 dBm Ref Offset 17 dB Ref 35.00 dBn Register 1 Register 3 More 1 of 3 enter 1.850000 GHz Res BW 100 kHz Span 10.00 MH eep 1.000 ms (1001 pt Stop 1.915000 GI 1.000 ms (1001 p

Lowest channel Highest channel



Lowest channel Highest channel

4.9 ERP, EIRP Measurement

	adiliramant:	FCC part22 013(a) and FCC part24 232(b) Part 27 54(b)
	equirement: lethod:	FCC part22.913(a) and FCC part24.232(b) , Part 27.54(h) FCC part2.1046
	letriou.	
Limit:		GSM850, WCDMA Band V: 7W
		PCS1900, WCDMA Band II: 2W
		WCDMA Band IV: 1W
Test s	etup:	Below 1GHz Antenna Tower Search Antenna Tower Ground Plane Above 1GHz Antenna Tower Antenn

Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	 During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
		Н	V	28.55		_
			Н	26.95		
	Laurant	E1	V	28.66	20.45	
	Lowest		Н	27.58	38.45	Pass
		E2	V	29.14		
		E2	Н	27.92		
		Н	V	29.95		
	Middle	П	Н	26.92	38.45	Pass
GSM850		E1	V	28.48		
(GPRS 1 link)			Н	26.60		
		E2	V	28.72		
			Н	27.48		
		Н	V	29.17		
		П	Н	27.48		
	Highaat	E1	V	28.51	20.45	Door
	Highest		Н	26.48	38.45	Pass
		E2	V	29.69		
		E2	Н	26.96		

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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
		П	V	30.05		
			Н	25.64		
	1	- 4	V	29.76	00.04	D
	Lowest	E1	Н	26.35	33.01	Pass
		Fo	V	30.34		
		E2	Н	26.23		
		Ц	V	30.19		Pass
	Middle	Н	Н	26.66	33.01	
PCS1900		E1	V	30.24		
(GPRS 1 link)			Н	26.79		
		E2	V	29.48		
			Н	27.42		
		Н	V	29.72		
		П	Н	26.40		
	I Palacat	- 4	V	29.24	00.04	D
	Highest	E1	Н	26.25	33.01	Pass
		F-0	V	29.85		
		E2	Н	26.39		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
		Н	V	26.98		
			Н	23.46		
	1	F4	V	27.06	00.04	
	Lowest	E1	Н	24.18	33.01	Pass
		E2	V	27.38		
		E2	Н	24.62		
		Н	V	27.11		Pass
	Middle	П	Н	24.68	33.01	
PCS1900		E1	V	27.31		
(EGPRS 1 link)			Н	24.19		
		E2	V	26.59		
			Н	25.22		
		Н	V	27.28		
		П	Н	24.22		
	Highoot	E1	V	27.43	22.04	Door
	Highest	E1	Н	24.44	33.01	Pass
		F-0	V	27.07		
		E2	Н	24.62		

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EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
		Н	V	22.90		
			Н	23.26		
	l a sat	F4	V	21.98	00.45	Davis
	Lowest	E1	Н	22.56	38.45	Pass
		E2	V	22.35		
		E2	Н	23.44		
		Н	V	23.88		Pass
	Middle	П	Н	24.03	38.45	
WCDMA		E1	V	23.64		
Band V			Н	22.67		
		E2	V	23.08		
			Н	23.61		
		Н	V	23.69		
		П	Н	23.61		
	l limboot	E1	V	23.29	20.45	Daga
	Highest		Н	23.88	38.45	Pass
		E2	V	22.99		
		E2	Н	23.30		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
			V	23.54		
		Н	Н	23.67		
	l a sat	F4	V	21.92	00.04	Davis
	Lowest	E1	Н	22.14	33.01	Pass
		Fo	V	22.18		
		E2	Н	24.26		
		Н	V	23.05		Pass
	Middle	П	Н	24.16	33.01	
WCDMA		E1	V	23.33		
Band II			Н	22.54		
		E2	V	23.30		
			Н	23.74		
			V	22.79		
		Н	Н	23.30		
	Highoot	E1	V	23.25	22.04	Pass
	Highest		Н	23.54	33.01	Pass
		E2	V	23.21		
		E2	Н	23.12		

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EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		Н	V	22.77		
			Н	22.75		
	1	- 4	V	22.09	00.04	Davis
	Lowest	E1	Н	22.67	33.01	Pass
		F0.	V	21.84		
		E2	Н	23.83		
		Ш	V	23.72		Pass
	Middle	Н	Н	23.84	33.01	
WCDMA		E1	V	23.99		
Band IV			Н	21.86		
		E2	V	23.26		
			Н	23.09		
		Ш	V	22.93		
		Н	Н	23.93	1	
	Himbook		V	23.58	22.04	Daga
	Highest	E1	Н	23.91	33.01	Pass
		F-0	V	23.29		
		E2	Н	23.34		

4.10 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a) and FCC part24.238(a), Part 27.54(h)
Test Method:	FCC part2.1053
Limit:	-13dBm
Limit: Test setup:	Below 1GHz Antenna Tower FUT Tum O, 8m Antenna Ground Plane Above 1GHz Antenna Tower
	Substituted method: Antenna mast
	Ground plane d: distance in meters d:3 meter I-4 meter SPA Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna

	·
Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.
	3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) -
	Cable Loss (dB)
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Test mode:	GPRS850		Test channel:	Highest	
Fragues av (MIII-)	Spurious Emission		Lineit (dDne)	Deault	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1697.44	V	-37.93			
2546.98	V	-34.47			
3393.94	V	-33.22	-13.00	Pass	
4243.67	V	-31.31			
5093.71	V	-30.76			
1697.43	Н	-39.27			
2545.19	Н	-33.92			
3395.75	Н	-33.25	-13.00	Pass	
4244.46	Н	-31.51			
5092.17	Н	-29.73	7		
		=00			
Test mode:		RS850	Test channel:	Highest	
Test mode:	EGPR				
	EGPR	RS850	Test channel: Limit (dBm)	Highest Result	
Test mode:	EGPF Spurious	RS850 Emission			
Test mode: Frequency (MHz)	EGPR Spurious Polarization	RS850 Emission Level (dBm)			
Test mode: Frequency (MHz) 1697.65	EGPR Spurious Polarization V	Emission Level (dBm) -38.82			
Test mode: Frequency (MHz) 1697.65 2545.73	Spurious Polarization V V	Emission Level (dBm) -38.82 -34.61	Limit (dBm)	Result	
Test mode: Frequency (MHz) 1697.65 2545.73 3396.29	Spurious Polarization V V V	RS850 Emission Level (dBm) -38.82 -34.61 -32.22	Limit (dBm)	Result	
Test mode: Frequency (MHz) 1697.65 2545.73 3396.29 4244.52	EGPR Spurious Polarization V V V V V V H	RS850 Emission Level (dBm) -38.82 -34.61 -32.22 -33.20	Limit (dBm)	Result	
Test mode: Frequency (MHz) 1697.65 2545.73 3396.29 4244.52 5092.98	EGPR Spurious Polarization V V V V V V	Emission Level (dBm) -38.82 -34.61 -32.22 -33.20 -30.38	Limit (dBm)	Result	
Test mode: Frequency (MHz) 1697.65 2545.73 3396.29 4244.52 5092.98 1697.81	EGPR Spurious Polarization V V V V V V H	Emission Level (dBm) -38.82 -34.61 -32.22 -33.20 -30.38 -38.71	Limit (dBm)	Result	
Test mode: Frequency (MHz) 1697.65 2545.73 3396.29 4244.52 5092.98 1697.81 2545.24	EGPR Spurious Polarization V V V V V H H	Emission Level (dBm) -38.82 -34.61 -32.22 -33.20 -30.38 -38.71 -33.45	-13.00	Result Pass	

- 2.
- The emission behaviour belongs to narrowband spurious emission.

 The above table only shows the worst case channel of each mode.

 The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Report No.: A2410134-C08-R06

Remark:

9548.10

11457.33

1. The emission behaviour belongs to narrowband spurious emission.

Н

Н

- 2. The above table only shows the worst case channel of each mode.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

-32.49

-29.07

Test mode:	WCDMA	WCDMA Band V		Lowest	
- (111)	Spurious	Emission		5 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1693.84	V	-38.44			
2540.37	V	-35.27			
3385.58	V	-31.69	-13.00	Pass	
4233.30	V	-32.74			
5078.41	V	-29.82			
1692.95	Н	-37.25			
2538.38	Н	-34.14			
3385.99	Н	-33.31	-13.00	Pass	
4232.64	Н	-31.44			
5080.33	Н	-28.78			
Test mode:	WCDMA	A Band V	Test channel:	Middle	
	Spurious	Emission	Line it (dDree)	Decult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1672.10	V	-37.72			
2507.79	V	-35.89			
3345.82	V	-32.12	-13.00	Pass	
4182.31	V	-31.64			
5018.96	V	-29.13		1	
1672.86	Н	-38.66			
2508.97	Н	-32.87			
3344.49	Н	-32.77	-13.00	Pass	
4181.10	Н	-31.09			
5018.13	Н	-29.09			
Test mode:	WCDMA	A Band V	Test channel:	Highest	
Fraguency (MH=)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result	
1693.16	V	-37.22			
2538.93	V	-34.76			
3385.42	V	-34.72	-13.00	Pass	
4232.55	V	-30.97			
5079.15	V	-28.73			
1693.29	Н	-38.29			
2540.58	Н	-36.35			
3386.48	Н	-35.20	-13.00	Pass	
4232.71	Н	-32.73			
5080.61	Н	-29.99			

- The emission behaviour belongs to narrowband spurious emission. 1.
- 2.
- Remark"---" means that the emission level is too low to be measured
 The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Test mode:	WCDMA	Band II	Test channel:	Lowest	
- (A411)	Spurious	Emission	1: :: (15.)	5 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3704.58	V	-38.56			
5557.85	V	-35.93		Pass	
7409.15	V	-31.92	-13.00		
9261.75	V	-33.31			
11114.43	V	-30.90			
3705.27	Н	-36.79			
5556.35	Н	-33.29			
7409.07	Н	-33.48	-13.00	Pass	
9260.53	Н	-31.41			
11113.91	Н	-28.94			
Test mode:	WCDMA	Band II	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dPm)	Popult	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Result	
3759.63	V	-37.68			
5640.75	V	-34.26			
7519.48	V	-33.16	-13.00	Pass	
9399.86	V	-31.20			
11279.63	V	-29.66			
3759.61	Н	-38.48			
5639.82	Н	-33.98		Pass	
7520.44	Н	-33.08	-13.00		
9398.95	Н	-32.99			
11281.15	Н	-29.34			
Test mode:	WCDMA	Band II	Test channel:	Highest	
Fraguency (MUz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Kesuit	
3815.71	V	-38.09			
5723.86	V	-36.00			
7630.34	V	-35.00	-13.00	Pass	
9537.57	V	-31.87			
11445.37	V	-29.18			
3814.47	Н	-39.02			
5723.46	Н	-37.21			
7629.90	Н	-35.50	-13.00	Pass	
9538.32	Н	-33.75			
11445.80	Н	-30.44			

- The emission behaviour belongs to narrowband spurious emission.
 Remark"---" means that the emission level is too low to be measured
 The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Test mode:	WCDMA	Band IV	Test channel:	Lowest	
- (111)	Spurious	Emission		5	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3425.31	V	-37.31			
5136.43	V	-34.03			
6848.79	V	-31.75	-13.00	Pass	
8561.12	V	-32.37			
10273.39	V	-29.23			
3426.13	Н	-37.56			
5137.79	Н	-33.12			
6848.88	Н	-32.30	-13.00	Pass	
8562.94	Н	-31.32			
10274.30	Н	-30.68			
Test mode:	WCDMA	Band IV	Test channel:	Middle	
Eroguopov (MHz)	Spurious	Emission	Limit (dDm)	Dooult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3464.16	V	-37.30			
5197.70	V	-36.05		1	
6929.81	V	-32.99	-13.00	Pass	
8662.27	V	-31.43			
10393.88	V	-28.89			
3465.71	Н	-36.97			
5196.01	Η	-34.41		Pass	
6929.43	Н	-33.45	-13.00		
8661.95	Η	-31.75			
10394.80	Η	-29.07			
Test mode:	WCDMA	Band IV	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (wiriz)	Polarization	Level (dBm)	Lillit (dbill)	Nesuit	
3506.43	V	-38.46			
5257.14	V	-36.80			
7010.99	V	-36.44	-13.00	Pass	
8762.52	V	-33.46			
10515.97	V	-30.21			
3506.52	Н	-37.42			
5256.48	Н	-37.28			
7010.11	Н	-34.12	-13.00	Pass	
8763.48	Н	-32.24			
10515.66	Н	-29.19			

- The emission behaviour belongs to narrowband spurious emission.
 Remark"---" means that the emission level is too low to be measured
- The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4.11 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	Spectrum analyzer EUT Att.
	Variable Power Supply Note: Measurement setup for testing on Antenna connector
Test procedure:	The equipment under test was connected to an external DC power supply and input rated voltage.
	2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
	3. The EUT was placed inside the temperature chamber.
	4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
	5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
	6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Reference I	Frequency: GSM850	(GPRS 1 link) Mi	ddle channel=19	00 channel=836.	6MHz
Power supplied	Temperature (°C)	Frequency error		Limit (nors)	Result
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-20	26	0.0306	-	
	-10	-12	-0.0148		
	0	26	0.0311		
	10	-8	-0.0097		
3.8	20	18	0.0217	2.5	Pass
	30	18	0.0217		
	40	21	0.0253		
	50	9	0.0102		
	60	11	0.0127		
Reference F	requency: GSM850 (EGPRS 1 link) M	iddle channel=1	90 channel=836	.6MHz
Power supplied	Tomporature (%C)	Frequency error		Limit (nnm)	Pocult
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-20	27	0.0326		
	-10	-5	-0.0059		
	0	19	0.0226		Pass
3.8	10	0	-0.0002		
	20	19	0.0231	2.5	
	30	17	0.0200		
	40	13	0.0151		
		7	0.0070		
	50	7	0.0079		

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Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz						
Damer amplied ()/da)	Frequency error		Tomporature (%C)		Desuit	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result	
	-20	17	0.0089			
	-10	-7	-0.0038			
	0	31	0.0163			
	10	-7	-0.0037			
3.8	20	21	0.0114	2.5	Pass	
	30	17	0.0091			
	40	21	0.0111			
	50	6	0.0031			
	60	22	0.0117			
Reference From	equency: PCS1900	(EGPRS 1 link) N	liddle channel=6	61 channel=188	BOMHz	
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result	
rower supplied (vdc)	remperature (C)	Hz	ppm		Result	
	-20	19	0.0099			
	-10	-15	-0.0079			
	0	25	0.0133		Pass	
	10	-10	-0.0054			
3.8	20	21	0.0111	2.5		
	30	8	0.0045			
	40	17	0.0089			
	50	16	0.0087			
	60	5	0.0029			

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Reference	e Frequency: WCDM	IA Band V Middle	channel=4183	channel=836.6M	lHz
Power supplied		Frequency error			
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-20	12	0.0141		
	-10	-11	-0.0132		
	0	24	0.0288		
	10	-9	-0.0107	1	
3.8	20	16	0.0195	2.5	Pass
	30	22	0.0262	1	
	40	16	0.0186	1	
	50	2	0.0019		
	60	6	0.0071	1	
Reference	Frequency: WCDM	A Band II Middle	channel=9400 c	hannel=1880.0N	ЛНz
Power supplied	Tomorous (°C)	Frequer	ncy error	Limit (mmm)	Desuit
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-20	27	0.0145	2.5	
	-10	-16	-0.0085		
	0	25	0.0135		
	10	-1	-0.0005		Pass
3.8	20	23	0.0120		
	30	16	0.0087		
	40	10	0.0052		
	50	13	0.0071		
	60	21	0.0110		
Reference	Frequency: WCDM	A Band IV Middl	e channel=1450	channel=1740M	lHz
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Еппі (рріп)	resuit
	-20	24	0.0136		
	-10	-19	-0.0109		
	0	24	0.0141	2.5 P	
	10	-13	-0.0074		
3.8	20	21	0.0121		Pass
	30	12	0.0071		
	40	15	0.0086		
	50	11	0.0065		
	60	17	0.0098		

4.12 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Temperature Chamber
	Spectrum analyzer EUT Att. Variable Power Supply Note: Measurement setup for testing on Antenna connector
Test procedure:	Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
	Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
	3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

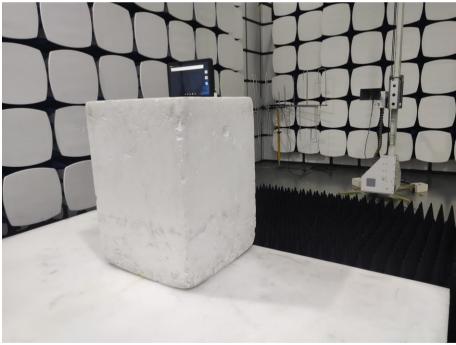
Reference	Frequency: GSM850	(GPRS 1 link) Mi	ddle channel=19	0 channel=836.6N	ЛHz
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result
	(Vdc)	Hz	ppm	Енти (ррпп)	rtosuit
	24	27	0.0317		
25	24	-9	-0.0106	2.5	Pass
	9	27	0.0320		
Reference I	requency: GSM850	(EGPRS 1 link) M	liddle channel=19	0 channel=836.6	MHz
Temperature (°C)	Power supplied	Freque	ncy error	Limit (ppm)	Result
remperature (0)	(Vdc)	Hz	ppm	Еппт (ррпп)	rtosuit
	24	25	0.0300		
25	24	-6	-0.0071	2.5	Pass
	9	28	0.0333		
Reference	Frequency: PCS1900	O (GPRS 1 link) M	liddle channel=66	61 channel=1880N	ЛHz
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result
remperature (0)	(Vdc)	Hz	ppm	Енти (ррпп)	Result
	24	17	0.0089		
25	24	-5	-0.0026	2.5	Pass
	9	24	0.0130		
Reference F	requency: PCS1900	(EGPRS 1 link) N	/liddle channel=6	61 channel=1880	MHz
Temperature (°C)	Power supplied	Frequency error		Limit (nnm)	Dogult
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	24	16	0.0087		
25	24	-5	-0.0028	2.5	Pass
	9	27	0.0145		

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Referen	Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz						
Temperature (°C)	Power supplied	Freque	Frequency error		Result		
romporataro (c)	(Vdc)	Hz	ppm	Limit (ppm)	rtoodit		
	24	27	0.0325				
25	24	-11	-0.0128	2.5	Pass		
	9	21	0.0248				
Referen	ce Frequency: WCDI	MA Band II Middle	channel=940 cha	annel=1880.0MH	lz		
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	- Limit (ppin)	Nosun		
	24	25	0.0133				
25	24	-14	-0.0073	2.5 Pa	Pass		
	9	27	0.0141		1		
Referenc	e Frequency: WCDM	A Band IV Middle	channel=1450 ch	nannel=1740.0M	Hz		
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Nesuit		
	24	16	0.0091				
25	24	-2	-0.0014	2.5	Pass		
	9	23	0.0131				

5 Test Setup Photo





-----END OF REPORT-----