

Prüfbericht - Nr.: 168 Test Report No.:	00377 001		Seite 1 von 38 Page 1 of 38			
Auftraggeber: Client:	Siemens AG Hofmannstr.51,Munich,	Germany				
Gegenstand der Prüfung: Test item:	SiPARK Ground Se	nsor				
Bezeichnung: Identification:	GS-915	Serien-Nr.: Serial No.:	Engineering sample			
Wareneingangs-Nr.: Receipt No.:	1143005323	Eingangsda Date of recei				
Zustand des Prüfgegenstande Condition of test item at deliv		The sample is ok f	or test and not damaged.			
Prüfort: Testing location:		Refer to section 1.	1			
Prüfgrundlage:		FCC Part 15 Subpa	art C Section 15.209			
Test specification:		FCC Part 15 Subpart C Section 15.247				
	Prüfgegenstand entsetest item passed the t		nter Prüfgrundlage(n).			
Prüflaboratorium: Testing Laboratory:		Refer to section 1.	1			
geprüft/ tested by:	ko	ntrolliert/ reviewed b	y:			
2012-4-13 Yang, Kai/PE	Yeng bai	2012-4-13 Sun	, Lixun/Reviewer Sun lixus			
DatumName/StellungDateName/Position	Unterschrift Signature		e/Stellung Unterschrift e/Position Signature			
Sonstiges/ Other Aspects:	Sonstiges/ Other Aspects:					
		Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich	n nur auf das o.g. Prüfn	nuster und darf ohne G	Senehmigung der Prüfstelle nicht			

auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a.m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



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TEST SUMMARY

4.1.1 ANTENNA REQUIREMENT

RESULT: Passed

4.1.2 PEAK OUTPUT POWER RESULT: Passed

4.1.3 6DB BANDWIDTH RESULT: Passed

4.1.4 CONDUCTED SPURIOUS EMISSIONS IN 100kHz BANDWIDTH

RESULT: Passed

4.1.5 POWER SPECTRAL DENSITY

RESULT: Passed

4.1.6 Spurious Emission

RESULT: Passed

4.2.1 ELECTROMAGNETIC FIELDS

RESULT: Passed



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1. Test Sites

1.1 Test Facilities

Laboratory: The State Radio_Monitoring_Center Testing (SRTC) (FCC

Registration No.: 910917)

Address: No.98 BeiLishi Road, Xicheng District, Beijing 100037

The used test equipment is in accordance with CISPR 16-1 for measurement of radio interference.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer		S/N	Calibrated until			
	Spurious Radiated Emissions						
Bi-log Antenna	Rohde & Schwarz	HL562	100016	2012-08-20			
Horn Antenna	Rohde & Schwarz	HF906	100030	2012-08-20			
EMI Test Receiver	Rohde & Schwarz	ESI40	100015	2012-08-20			
Pre/Power Amplifier	Robde & Schwarz		800584	2012-08-20			
Radio Frequency Test Suite							
EMI Test Receiver	Rohde & Schwarz	ESI40	100015	2012-08-20			



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1.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institude of Metrology P.R. China) or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

1.4 Calibration

Equipment requiring calibration is calibrated periodically by the lab or according to lab's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

1.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

	Items	Extended Uncertainty		
RE	Field strength (dBuV/m)	U=±4.94dB, k=2, σ=95%		
(30-1000MHz)				
RE	Field strength (dBuV/m)	U=±4.34dB, k=2, σ=95%		
(1-12.75GHz)	,			

Products

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2. General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is a SiPARK Ground Sensor (GS) that to be installed in parking places to detect the parking status. The flush-mounted GS will detect the presence of vehicle above it and report the current parking status to the parking management system by wireless communication.

2.2 Ratings and System Details

Table 3: Rating of EUT

Kind of Equipment:	SiPARK Ground Sensor
Type Designation:	GS-915
FCC ID	ZSJ-E915-A10
Rated Input Voltage	DC 3.6V (lithium battery)

Table 4: Technical Specification

Item	Description
Operating Frequency band	903-927MHz
Channel Number	13
Channel Center Frequency	903.0 MHz, 905.0 MHz, 907.0 MHz, 909.0 MHz, 911.0 MHz, 913.0 MHz, 915.0 MHz, 917.0 MHz, 919.0 MHz, 921.0 MHz, 923.0 MHz, 925.0 MHz, 927.0MHz
Modulation	GFSK
Antenna	Integrated Antenna
Antenna Gain (dBi)	1.8



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2.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
- B. On, standby
- C. Off

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

2.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document

- Circuit Diagram
- Instruction Manual
- Rating Label

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3. Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use. And prior to the measurements, the test object operated about 5 minutes (warm-up) in order to stabilize its operating conditions and to ensure reliable measurement values.

3.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

3.3 Special Accessories and Auxiliary Equipment

Table 5: Test Auxiliary Equipments

No.	Name	Model	Manufactory
1	Notebook	Probook6550B	HP
	computer		
2	Repeater	WN-R-915	Siemens

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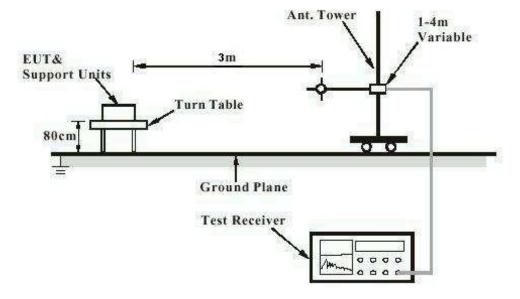
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3.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

3.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test





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Diagram of Measurement Equipment Configuration for Conduction Measurement

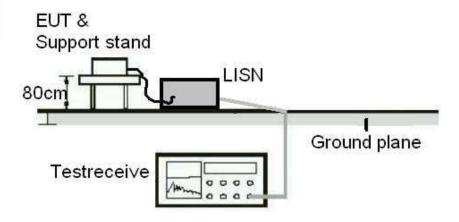
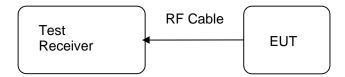


Diagram of Measurement Equipment Configuration for Transmitter Measurement





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4. Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT: Passed

Test date : 2011-06-15

Test standard : FCC Part 15.247(b)(4) and Part 15.203

Limit : the use of antennas with directional gains that do

not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.8dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.



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4.1.2 Peak Output Power

RESULT: Passed

Test date 2011-06-15

Test standard
Basic standard FCC Part 15.247(b)(1) ANSI C63.4: 2003

1 Watt Limit

Kind of test site Shielded room

Test setup

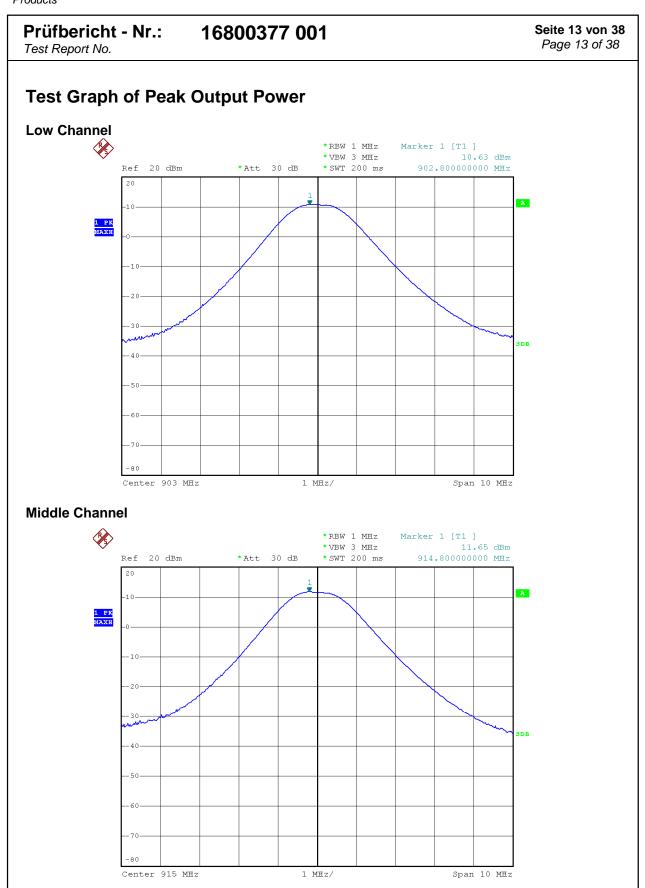
Low/ Middle/ High

Test Channel :
Operation Mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure : **24**℃ 53% 101 kPa

Table 6: Test result of Peak Output Power

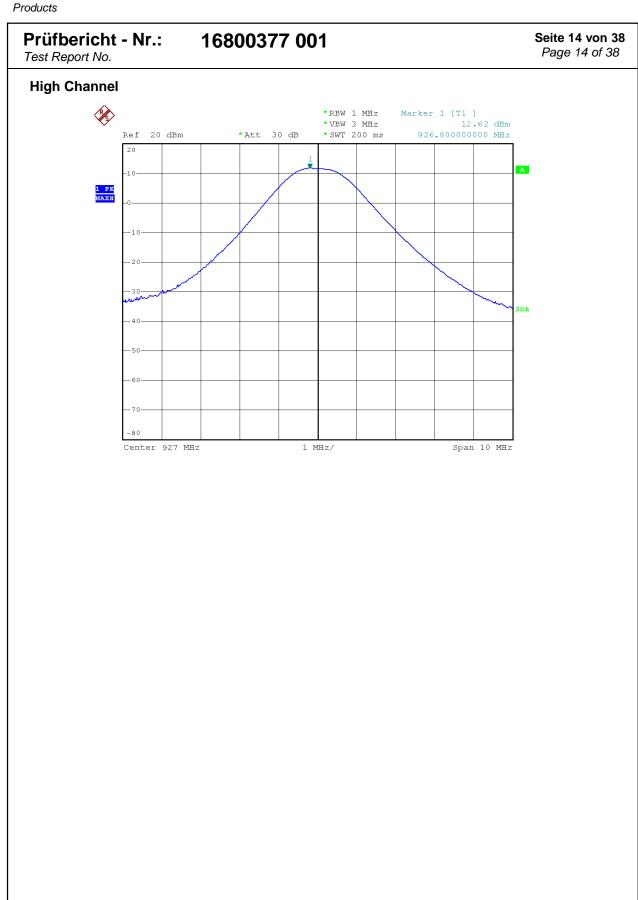
Channel	Channel Frequency	Peak Out _l	put Power	Limit
	(MHz)	(dBm)	(mW)	(W)
Low Channel	903	10.63	11.56	1
Middle Channel	915	11.65	14.62	1
High Channel	927	12.62	18.28	1







Products





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Test Report No.

4.1.3 6dB Bandwidth

RESULT: Passed

Date of testing 2011-06-15

Test standard FCC Part 15.247(a)(2) Basic standard Kind of test site ANSI C63.4: 2003 Shielded room

Test setup

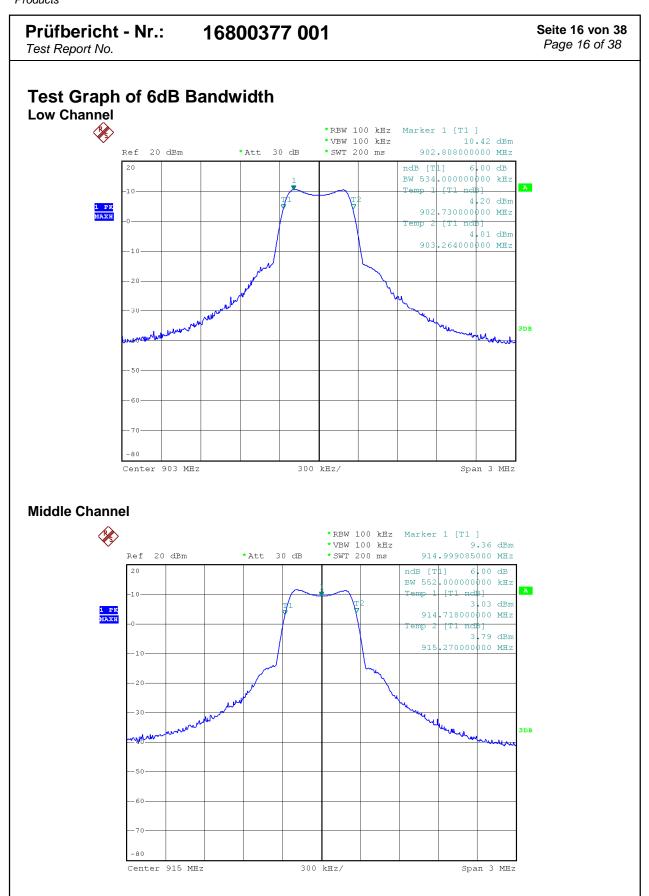
Test Channel Low/ Middle/ High

Operation Mode Ambient temperature : **24**℃ Relative humidity 53% Atmospheric pressure : 101 kPa

Table 7: Test result of 6dB Bandwidth

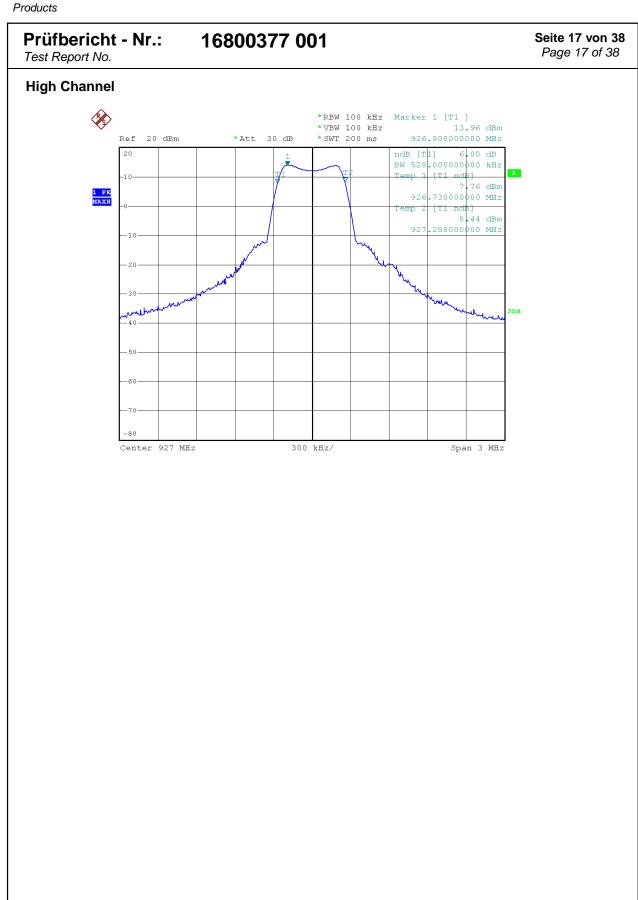
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit(kHz)	
Low Channel 903		534	>500	
Mid Channel	915	552	>500	
High Channel	927	528	>500	







Products





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4.1.4 Conducted Spurious Emissions in 100kHz Bandwidth

RESULT: Passed

2011-06-15 Date of testing

Test standard FCC part 15.247(d) Basic standard ANSI C63.4: 2003

20dB (below that in the 100kHz bandwidth within Limit

the band that contains the highest level of the

desired power);

In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated

emission limits specified in 15.209(a)

Kind of test site Shield room

Test setup

Test Channel Low/ Mid/High

Operation mode Α **24**℃ Ambient temperature Relative humidity 53% Atmospheric pressure 101 kPa

All emissions are more than 20dB below fundamental, details refer to following test Graph, and compliance is achived as well.

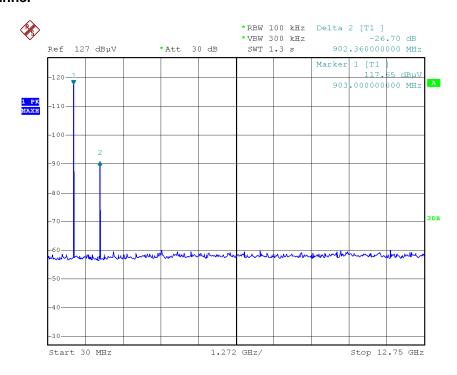


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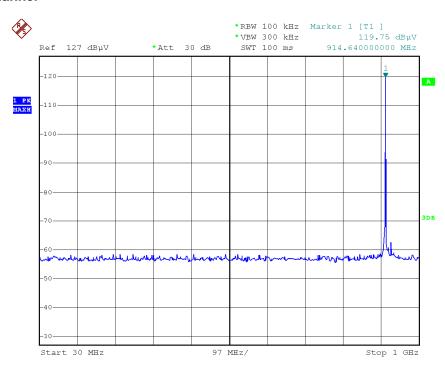
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Test Graph of Conducted Spurious Emissions measured in 100kHz Bandwidth

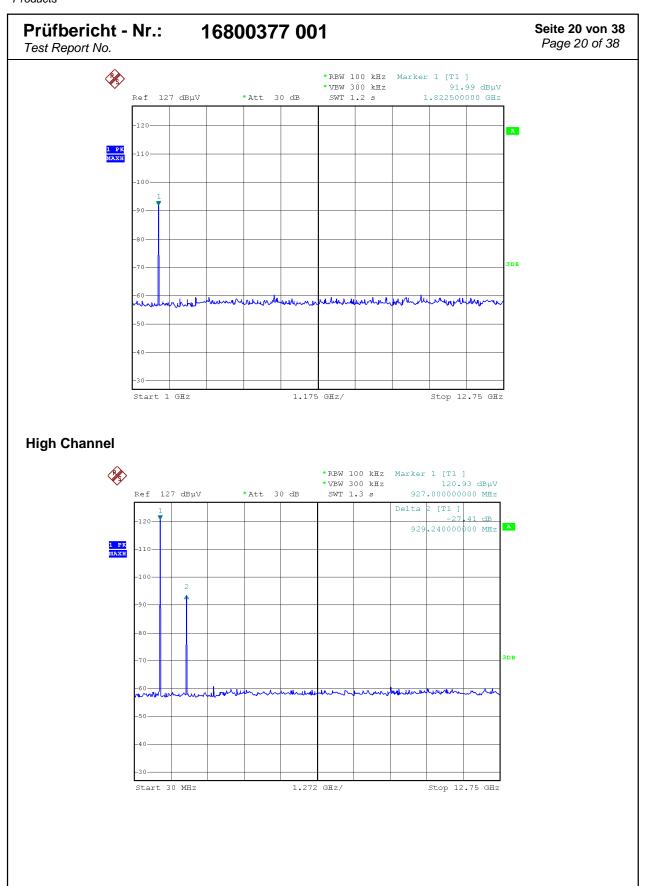
Low Channel



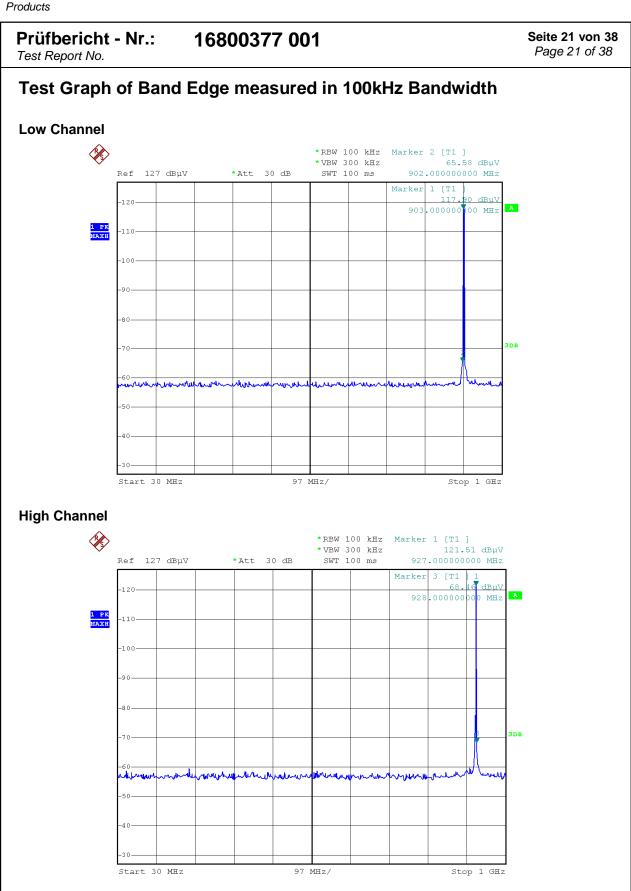
Middle Channel







Produkte





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4.1.5 Power Spectral Density

RESULT: Passed

Date of testing 2011-06-15

Test standard FCC part 15.247(e) Basic standard ANSI C63.4: 2003

Limits 8.0 dBm (in any 3kHz band)

Kind of test site Shield room

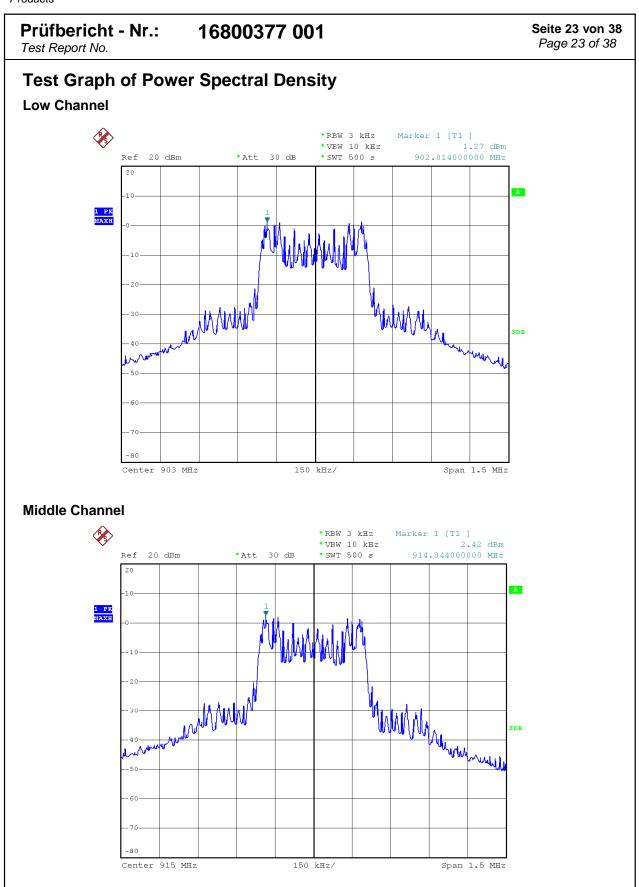
Test Setup

Test Channel Low/ Middle/ High

Operation mode Ambient temperature **24**°C Relative humidity 53% Atmospheric pressure : 101 kPa

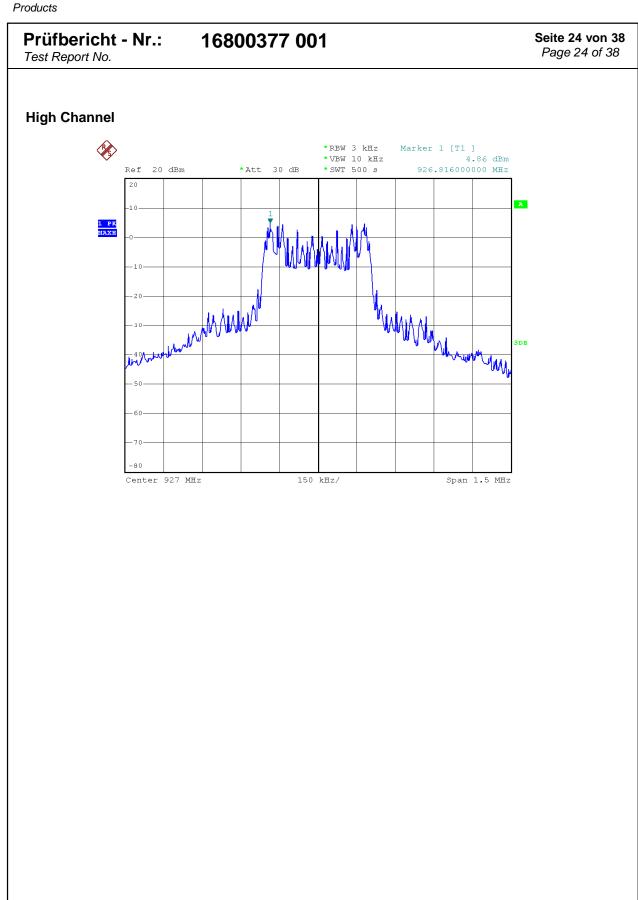
Table 8: Test result of power spectral density

Maximum power spectral density					
Low Channel Middle Channel High Channel Limit (dBm/3kHz) (dBm/3kHz) (dBm/3kHz) (dBm/3kHz)					
4.07	0.40	4.00			
1.27	2.42	4.86	8		





Products





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4.1.6 Spurious Emission

RESULT: Passed

2011-07-23 Date of testing

Test standard FCC part 15.247(d) Basic standard ANSI C63.4: 2003 Limits Refer to 15.209(a)

Kind of test site 3m Semi-Anechoic Chamber

Test setup

Test Channel Low/ Middle/ High

Operation mode Ambient temperature **23**℃ Relative humidity 51% Atmospheric pressure 100 kPa

During the test, the wooden table was rotated 360° around and the antenna was varied from 1m to 4m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

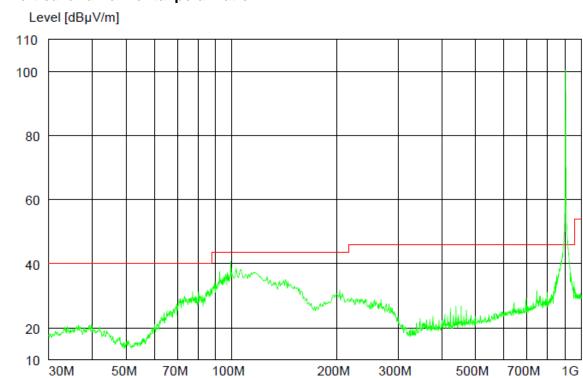
The following figures and tables were those measured by an automatic measurement system. The vertical results are marked with red, and the horizontal ones are marked with blue.

Plots of the band edge are also shown.

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Figure 1: Spurious emission measurement results, low channel, 30-1000MHz, vertical and horizontal polarization



Final quasi-peak measurement result:

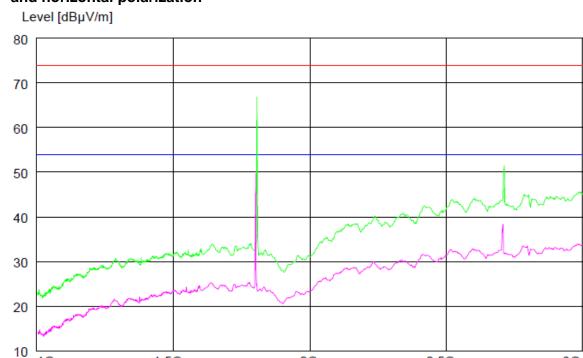
Frequency(MHz)	polarization (horizontal H/ vertical V)	Height(m) (cm)	Angle	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
92.424	Н	200.0	270.5	43.5	37.67	5.83
99.438	Н	200.0	272.0	43.5	40.68	2.82
116.833	V	200.0	348.2	43.5	37.27	6.23
207.414	Н	100.0	90.7	43.5	30.89	12.61
699.398	V	100.0	182.1	49.5	27.01	22.49
747.494	Н	100.0	119.3	49.5	31.78	17.72

Frequency [Hz]

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Figure 2: Spurious emission measurement results, low channel, 1-3GHz, vertical and horizontal polarization



Final measurement result:

1.5G

moded official recall.						
Frequency(MHz)	polarization (horizontal H/ vertical V)	Detector	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)	
1812.505	Н	Peak	74.0	66.46	7.54	
1812.505	Н	AV	54.0	49.97	4.03	
2711.162	V	Peak	74.0	52.49	21.51	
2711.162	V	AV	54.0	38.12	15.88	

2G

Frequency [Hz]

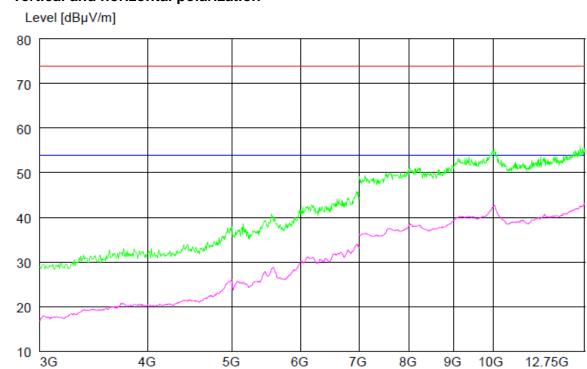
2.5G

3G

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Figure 3: Spurious emission measurement results, low channel, 3-12.75GHz, vertical and horizontal polarization



Final measurement result:

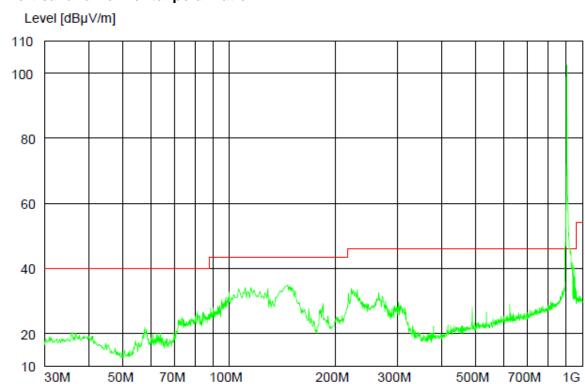
mededicinent result.					
Frequency(MHz)	polarization (horizontal H/ vertical V)	Detector	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
3609.218	V	Peak	74.0	32.74	41.26
3609.218	V	AV	54.0	19.69	34.31
4539.078	V	Peak	74.0	33.35	40.65
4539.078	V	AV	54.0	21.30	32.7
10019.038	Н	Peak	74.0	55.24	18.76
10019.038	Н	AV	54.0	42.67	11.33

Frequency [Hz]

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Figure 4: Spurious emission measurement results, mid channel, 30-1000MHz, vertical and horizontal polarization



Final measurement result:

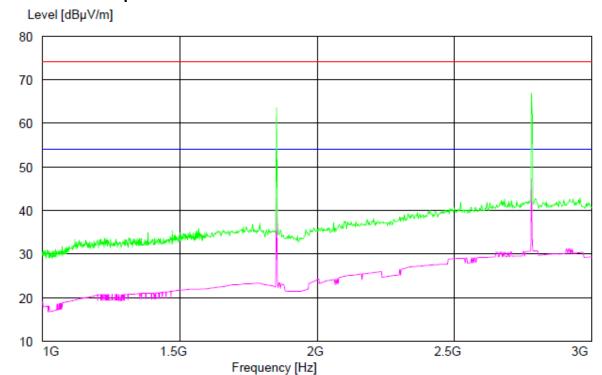
Frequency(MHz)	polarization (horizontal H/ vertical V)	Height(m) (cm)	Angle (°)	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
90.180	V	100.0	93.9	43.5	34.62	8.88
100.000	V	200.0	186.8	43.5	40.61	2.89
148.096	Н	300.0	271.2	43.5	27.07	16.43
154.509	Н	100.0	354.7	43.5	27.56	15.94
223.446	V	100.0	182.1	46.0	32.85	13.15
940.881	Н	100.0	357.9	46.0	41.04	4.96

Frequency [Hz]

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Figure 5: Spurious emission measurement results, mid channel, 1-3GHz, vertical and horizontal polarization



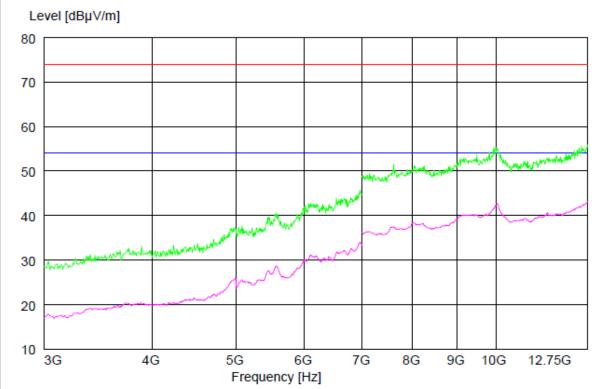
Final measurement result:

Frequency(MHz)	polarization (horizontal H/ vertical V)	Detector	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
1832.505	Н	Peak	74.0	63.46	10.54
1832.505	Н	AV	54.0	38.66	15.34
2741.162	V	Peak	74.0	66.02	7.98
2741.162	V	AV	54.0	47.51	6.49

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Figure 6: Spurious emission measurement results, mid channel, 3-12.75GHz, vertical and horizontal polarization



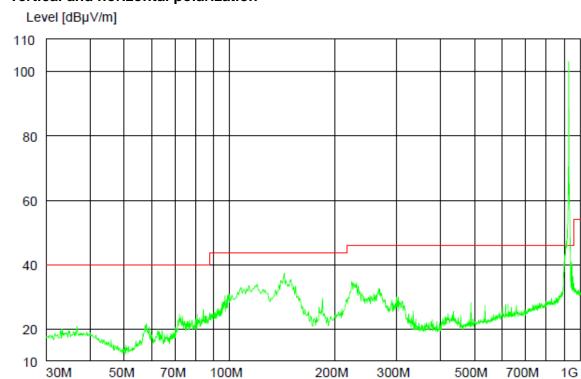
Final measurement result:

Frequency(MHz)	polarization (horizontal H/ vertical V)	Detector	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
3641.282	V	Peak	74.0	31.82	42.18
3641.282	V	AV	54.0	19.59	34.41
4515.030	V	Peak	74.0	33.76	40.24
4515.030	V	AV	54.0	21.17	32.83
7610.721	Н	Peak	74.0	51.46	22.54
10007.515	Н	Peak	74.0	55.33	18.67
12312.124	Н	Peak	74.0	54.72	19.28
10019.038	V	AV	54.0	42.67	11.33

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Figure 7: Spurious emission measurement results, high channel, 30-1000MHz, vertical and horizontal polarization



Final measurement result:

Frequency(MHz)	polarization (horizontal H/ vertical V)	Height(m) (cm)	Angle (°)	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
73.486	Н	100.0	93.9	40.0	24.12	15.88
84.288	Н	300.0	278.2	40.0	26.09	13.91
143.286	V	100.0	354.7	43.5	37.33	6.17
230.661	V	100.0	172.1	43.5	34.29	9.21
487.975	V	100.0	357.9	46.5	28.16	18.34
613.226	Н	100.0	89.3	46.5	27.52	18.98

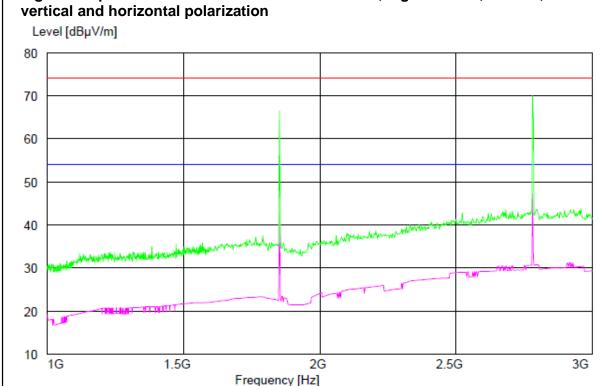
Frequency [Hz]

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Figure 8: Spurious emission measurement results, high channel, 1-3GHz,



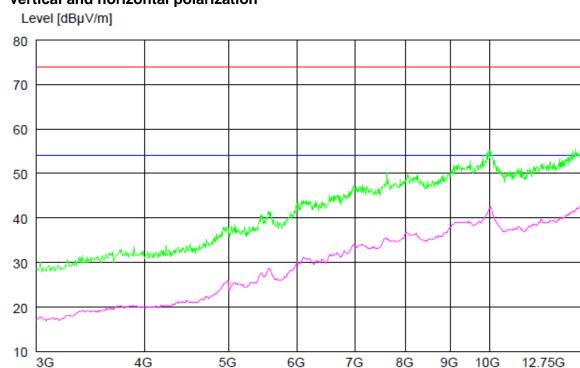
Final measurement result:

Frequency(MHz)	polarization (horizontal H/ vertical V)	Detector	Limit (dBuV/m)	Level (dBuV/m)	Margin (dB)
1852.505	V	Peak	74.0	66.46	7.54
1852.505	V	AV	54.0	42.66	11.34
2781.162	V	Peak	74.0	70.02	3.98
2781.162	V	AV	54.0	47.12	6.88

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Figure 9: Spurious emission measurement results, high channel, 3-12.75GHz, vertical and horizontal polarization



Frequency [Hz]

Final measurement result:

Frequency(MHz) polarization (horizontal H/ vertical V) Detector Limit (dBuV/m) Level (dBuV/m) Margin (dB) 3673.346 H Peak 74.0 32.16 41.84 3641.282 H AV 54.0 19.79 34.21 4675.350 V Peak 74.0 33.94 40.06 4675.350 V AV 54.0 21.53 32.47 7610.721 H Peak 74.0 52.56 21.44 9823.146 H Peak 74.0 54.41 19.59 9972.945 H Peak 74.0 54.88 19.12 12415.831 V Peak 74.0 54.79 19.21 10019.038 V AV 54.0 42.67 11.33	i ilicasarciliciti rest	41.01				
3641.282 H AV 54.0 19.79 34.21 4675.350 V Peak 74.0 33.94 40.06 4675.350 V AV 54.0 21.53 32.47 7610.721 H Peak 74.0 52.56 21.44 9823.146 H Peak 74.0 54.41 19.59 9972.945 H Peak 74.0 54.88 19.12 12415.831 V Peak 74.0 54.79 19.21	Frequency(MHz)	(horizontal H/ vertical	Detector	-	_0.0.	•
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12 13 13 13 13 13 13 13 13 13 13 13 13 13	9972.945	Н	Peak	74.0	54.88	19.12
10019.038 V AV 54.0 42.67 11.33	12415.831	V	Peak	74.0	54.79	19.21
	10019.038	V	AV	54.0	42.67	11.33



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Band Edge measurement results	
No significant harmonic emissions detected at the lower (614MHz) and upper restricted band.	r (960MHz)



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4.2 Radio Frequency Exprosure Compliance

4.2.1 Electromagnetic Fields

RESULT: Passed

Date of testing

: 2011-07-23: FCC KDB publication 447498 Test standard

Test setup

Since maximum peak output power of the transmitter is <60/f (GHz) mW, i.e. 18.28mW<64.72(=60/0.927) mW, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.



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5. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions 30MHz – 1GHz



Photograph 2: Set-up for Spurious Emissions 1GHz - 12.75GHz





Products

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