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校准
CNAS L0134

SHANGHAI INSTITUTE OF MEASUREMENT AND TESTING TECHNOLOGY
NATIONAL CENTER OF MEASUREMENT AND TEST FOR EAST CHINA

校准证书编号: 2008J10-10-801001
Calibrated certificate series No.

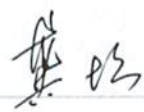
CALIBRATION CERTIFICATE

上海市计量测试技术研究院
华东国家计量测试中心

校准证书

委托者 Customer	本院基础性能试验中心
委托者地址 Address of customer	宜山路 716 号 No. 716, Yishan Road
器具名称 Name of instrument	SAR 电场探头 SAR E-field Probe
制造厂 Manufacturer	ANTENNESSA 公司
型号/规格 Model/Specification	SN 46/06 EP61
器具编号 No. of instrument	/
器具准确度 Instrument accuracy	/

(机构校准专用章)

证书批准人 Approved by	
核 验 员 Checked by	黄友根
校 准 员 Calibrated by	刘 麒

校准日期	2007	年	12	月	26	日
Date for calibrated		Year		Month		Day

投诉电话: 021-50798262

地址: 上海市张衡路 1500 号(总部)	电话: 021-38839800	传真: 021-50798390	邮编: 201203
No. 1500 Zhangheng Road, Shanghai(headquarters)		Tel. for complaint	
上海市宜山路 716 号(分部)	电话: 021-64701390	传真: 021-64701810	邮编: 200233
No. 716 Yishan Road, Shanghai(branch)		Tel. Fax. Post Code	

国家法定计量检定机构计量授权证书号（中心/院）：（国）法计（2002）01039 号/（2002）01019 号
The number of the Certificate of Metrological Authorization to The Legal Metrological Verification Institution is No.（2002）01039 / No.（2002）01019
中国合格评定国家认可委员会实验室认可证书号：No. CNAS L0134
The number of the certificate accredited by CNAS is No.L0134

本次校准所依据的技术规范（代号、名称）：
Reference documents for the calibration (code 、 name)
JCJ/J101001.1/0-2007 SAR 电场探头校准规范 (SAR E-FIELD PROBE calibration criterion)
IEC 62209-1: 2003 Procedure to measure the Specific Absorption Rate (SAR) in the frequency range of 300 MHz to 3 GHz Part 1: hand-held mobile wireless communication devices
IEEE 1528: 2003 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

本次校准所使用的主要计量标准器具：
Main measurement standards used in this calibration

参见附录一 (Refer to attachment 1)

以上计量标准器具的量值溯源至国家基准。
Quantity values of above measurement standards used in this calibration are traced to those of the national primary standards in the P.R. China.

校准地点及环境条件：
Location and environmental condition for the calibration

地点： 宜山路 716 号 (No. 716 Yishan Road, Shanghai)
Location
温度： 21 ℃； 湿度： 50 %RH； 其它： /
Ambient temperature Relative humidity Others

本次校准结果的扩展不确定度：
Expanded uncertainty

Antenna coefficient (Voltage): k=2, U=2U_c(E)=0.92dB

校准结果/说明：
Results of calibration and additional explanation

Pass

The requirements of the calibration criterion:
Linearity less than 0.25dB
Isotropy less than 0.25dB
Sensitivity less than the Low limit detection（12mW/Kg）

本证书提供的结果仅对本次被校的器具有效。
The data are valid only for the instrument(s).

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

1. Production description



Frequency Range:	100 MHz - 3 GHz
Probe length:	330 mm
Length of one dipole:	4.4 mm
Maximum external diameter:	8 mm
Probe extremity diameter:	6.3 mm
Distance between dipoles/probe extremity:	< 2.7 mm
Resistance of the three dipole (at the connector):	Dipole 1: R1=1.181MΩ Dipole 2: R2=1.186MΩ Dipole 3: R3=1.183MΩ
Connector (HIROSE series SR30):	6 wire male (Hirose SR30series)

2. Calibration Results

2.1 Calibration Frequency: 835.00MHz

2.1.1 Calibration basic information

S/N	Calibration
1	Epsilon: 40.50
2	Sigma: 0.93 S/m
3	Temperature: 21°C
4	Cable loss: 0.22dB
5	Coupler loss: 19.77dB
6	Waveguide Return Loss: 20.39dB

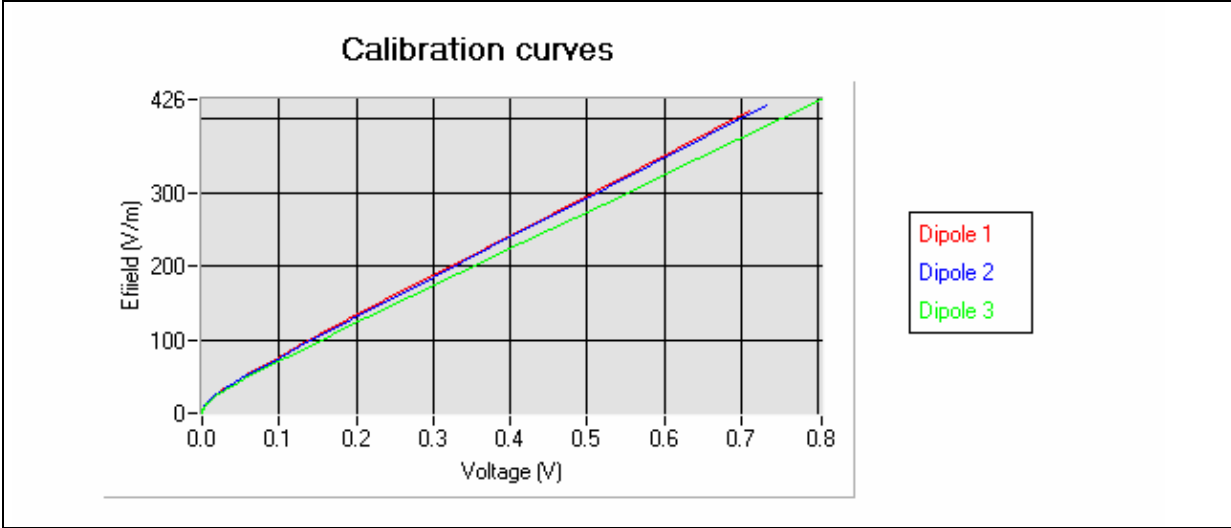
2.1.2 Calibration parameters

2.1.2.1 Sensitivity (Low limit detection): 0.82V/m（0.63mW/Kg）

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.1.2.2 Linearity: 0.05dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.709878	409.100782	0.733719	416.761938	0.804611	425.835507
0.567643	332.386940	0.583600	336.706062	0.642253	344.781240
0.454484	271.264127	0.469962	276.022709	0.521267	284.312940
0.368072	224.490184	0.375307	225.376538	0.414783	231.004547
0.296393	185.575485	0.300115	185.026786	0.332219	189.567885
0.237116	153.252976	0.242817	154.154549	0.269789	158.127596
0.188309	126.469665	0.192910	127.107861	0.214286	130.037525
0.151483	106.084027	0.155218	106.513226	0.170088	107.504497
0.123052	90.168539	0.125872	90.308631	0.135560	89.722354
0.098572	76.259618	0.101128	76.452611	0.109821	76.292920
0.062373	55.236309	0.064190	55.363642	0.070277	55.299938
0.056317	51.430962	0.057968	51.549522	0.063539	51.490208
0.048649	46.582698	0.050169	46.743868	0.055091	46.690083
0.041109	41.756553	0.042455	41.852812	0.046736	41.804655
0.034277	37.215567	0.035469	37.301358	0.039135	37.258438
0.028372	33.130245	0.029422	33.244871	0.032553	33.206618
0.023269	29.459451	0.024163	29.527362	0.026824	29.493386
0.018961	26.135129	0.019725	26.195377	0.021995	26.165236
0.015417	23.266156	0.016049	23.319790	0.017898	23.292958
0.012458	20.664488	0.012993	20.712124	0.014481	20.688293
0.010031	18.374886	0.010460	18.417244	0.011758	18.396053
0.008038	16.338969	0.008425	16.376634	0.009439	16.357790
0.006435	14.545366	0.006741	14.578897	0.007557	14.562122
0.005128	12.948654	0.005389	12.978504	0.006047	12.963571
0.004112	11.527222	0.004306	11.553795	0.004843	11.540500
0.003299	10.261826	0.003418	10.297330	0.003901	10.285482
0.002581	9.135339	0.002724	9.166945	0.003081	9.156397
0.002050	8.123836	0.002162	8.170049	0.002449	8.160648
0.001605	7.210735	0.001709	7.274624	0.001932	7.273185
0.001313	6.542694	0.001344	6.481194	0.001561	6.482233
0.001001	5.743666	0.001067	5.807150	0.001229	5.762367
0.000810	5.194212	0.000831	5.163922	0.000971	5.152755
0.000631	4.620343	0.000647	4.600445	0.000765	4.608472
0.000496	4.135186	0.000498	4.087625	0.000598	4.114728
0.000372	3.632915	0.000386	3.655084	0.000482	3.733533
0.000305	3.330151	0.000289	3.234059	0.000330	3.165295
0.000202	2.801604	0.000218	2.887228	0.000261	2.870460
0.000169	2.609719	0.000165	2.598321	0.000164	2.395381
0.000117	2.274740	0.000116	2.299145	0.000149	2.313221
0.000095	2.117123	0.000089	2.116296	0.000104	2.047050

校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.000060	1.838729	0.000050	1.820035	0.000077	1.869242
0.000003	1.259924	0.000030	1.647570	0.000036	1.560977
-0.000011	1.076382	0.000005	1.402474	0.000034	1.544367
-0.000021	0.918236	-0.000012	1.206161	0.000017	1.395216
-0.000028	0.789717	-0.000025	1.040391	0.000008	1.309394
-0.000033	0.676109	-0.000034	0.892884	-0.000010	1.122689
-0.000037	0.585434	-0.000041	0.762801	-0.000023	0.960109
-0.000040	0.496796	-0.000046	0.654471	-0.000033	0.814960
		-0.000050	0.563727	-0.000040	0.697313
		-0.000053	0.481284	-0.000045	0.596303
				-0.000048	0.510266
				-0.000051	0.441684

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.1.2.3 Isotropy
- Axial isotropy: 0.10dB
 - Hemispherical isotropy: 0.08 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000480	0.001669	0.023051	28.132906
-180	-15	-0.000043	0.004865	0.020559	28.003819
-180	0	0.000662	0.008774	0.016217	28.045065
-180	15	0.002203	0.012148	0.010812	27.878146
-180	30	0.004035	0.014782	0.005320	27.770240
-165	-30	0.000009	0.000260	0.024350	27.991073
-165	-15	0.001044	0.002011	0.021879	27.867504
-165	0	0.003192	0.004741	0.017385	27.810840
-165	15	0.005700	0.007738	0.011727	27.719561
-165	30	0.007869	0.010509	0.005993	27.713113
-150	-30	0.000825	0.000088	0.023802	27.986447
-150	-15	0.003442	0.000232	0.021146	27.793761
-150	0	0.006755	0.001481	0.016514	27.615333
-150	15	0.009955	0.003643	0.011072	27.642068
-150	30	0.012225	0.006152	0.005534	27.629274
-135	-30	0.002315	0.001302	0.020327	27.202310
-135	-15	0.006062	0.000206	0.017910	27.375868
-135	0	0.010419	-0.000026	0.013846	27.540149
-135	15	0.014299	0.000821	0.008962	27.853374
-135	30	0.016923	0.002651	0.004178	28.190636
-120	-30	0.003772	0.004507	0.017088	27.835115
-120	-15	0.008411	0.002373	0.013823	27.531371
-120	0	0.013150	0.000740	0.009680	27.403319
-120	15	0.016913	-0.000035	0.005382	27.353229
-120	30	0.019074	0.000387	0.001942	27.462226
-105	-30	0.004429	0.008889	0.011825	27.702863
-105	-15	0.009397	0.006305	0.008603	27.462056
-105	0	0.014321	0.003565	0.005127	27.364598
-105	15	0.018198	0.001290	0.002144	27.382332
-105	30	0.020354	0.000085	0.000403	27.505588
-90	-30	0.004127	0.013596	0.006608	27.708044
-90	-15	0.008935	0.010974	0.003813	27.524887
-90	0	0.013727	0.007536	0.001519	27.444527
-90	15	0.017591	0.003957	0.000203	27.482993
-90	30	0.019906	0.001122	0.000029	27.554206

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.002980	0.017806	0.002378	27.743859
-75	-15	0.007080	0.015238	0.000669	27.636924
-75	0	0.011486	0.011296	-0.000064	27.528478
-75	15	0.015229	0.006912	0.000431	27.64192
-75	30	0.017715	0.002938	0.001770	27.746651
-60	-30	0.001413	0.020744	0.000274	27.951429
-60	-15	0.004436	0.018180	0.000019	27.746129
-60	0	0.008099	0.014137	0.001169	27.766239
-60	15	0.011554	0.009191	0.003121	27.772309
-60	30	0.014291	0.004298	0.005132	27.760216
-45	-30	0.000202	0.022008	0.000180	28.158611
-45	-15	0.001819	0.019430	0.001794	27.953597
-45	0	0.004409	0.015245	0.004464	27.868819
-45	15	0.007338	0.010103	0.007417	27.854002
-45	30	0.010074	0.005034	0.009823	27.828562
-30	-30	0.000065	0.021339	0.001653	28.271842
-30	-15	0.000169	0.018819	0.004929	28.140864
-30	0	0.001400	0.014604	0.008871	27.989635
-30	15	0.003412	0.009536	0.012391	27.806314
-30	30	0.005829	0.004661	0.014729	27.765748
-15	-30	0.001340	0.019147	0.003697	28.398073
-15	-15	0.000178	0.016456	0.008319	28.277078
-15	0	-0.000013	0.012297	0.013025	27.985060
-15	15	0.000730	0.007648	0.016846	27.784143
-15	30	0.002404	0.003406	0.019055	27.642130
0	-30	0.004233	0.015521	0.005353	28.412715
0	-15	0.002191	0.012668	0.010749	28.176141
0	0	0.000618	0.008875	0.016029	27.969913
0	15	-0.000036	0.004931	0.020071	27.737645
0	30	0.000342	0.001753	0.022205	27.543790
15	-30	0.008231	0.011076	0.006008	28.290015
15	-15	0.005815	0.008127	0.011675	27.995042
15	0	0.003202	0.004951	0.017178	27.809156
15	15	0.001081	0.002129	0.021378	27.627044
15	30	0.000018	0.000377	0.023586	27.537038
30	-30	0.012707	0.006496	0.005431	28.106768
30	-15	0.010134	0.003869	0.010957	27.817413
30	0	0.006839	0.001613	0.016374	27.652873
30	15	0.003529	0.000248	0.020635	27.524747
30	30	0.000958	0.000001	0.022973	27.454692

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.016798	0.002661	0.003913	27.976656
45	-15	0.014288	0.000859	0.008679	27.711476
45	0	0.010558	-0.000028	0.013604	27.479316
45	15	0.006302	0.000190	0.017750	27.416898
45	30	0.002463	0.001343	0.020421	27.375900
60	-30	0.019749	0.000439	0.001899	27.964265
60	-15	0.017296	0.000007	0.005412	27.668822
60	0	0.013322	0.000701	0.009527	27.419499
60	15	0.008453	0.002343	0.013410	27.287749
60	30	0.003871	0.004258	0.016272	27.251604
75	-30	0.021105	-0.000009	0.000287	27.976514
75	-15	0.018674	0.001174	0.002115	27.665003
75	0	0.014590	0.003430	0.005000	27.421063
75	15	0.009466	0.006167	0.008279	27.249506
75	30	0.004554	0.008495	0.011267	27.216382
90	-30	0.020644	0.001062	0.000026	28.077211
90	-15	0.018067	0.003792	0.000131	27.709543
90	0	0.013944	0.007322	0.001350	27.386894
90	15	0.008939	0.010668	0.003543	27.201398
90	30	0.004167	0.013128	0.006247	27.240347
105	-30	0.018465	0.002744	0.001798	28.207933
105	-15	0.015708	0.006726	0.000379	27.849218
105	0	0.011682	0.011062	-0.000120	27.514704
105	15	0.007145	0.014814	0.000573	27.337885
105	30	0.003021	0.017146	0.002194	27.216520
120	-30	0.014931	0.004169	0.005330	28.239203
120	-15	0.012031	0.008969	0.003085	27.943503
120	0	0.008284	0.013815	0.001145	27.653963
120	15	0.004505	0.017680	0.000000	27.428235
120	30	0.001505	0.019936	0.000086	27.331258
135	-30	0.010594	0.004959	0.010108	28.260802
135	-15	0.007685	0.010004	0.007550	28.082627
135	0	0.004547	0.014988	0.004533	27.812181
135	15	0.001831	0.018915	0.001900	27.644075
135	30	0.000242	0.021161	0.000202	27.559566
150	-30	0.006259	0.004583	0.015147	28.225018
150	-15	0.003635	0.009538	0.012644	28.084402
150	0	0.001466	0.014329	0.008924	27.870314
150	15	0.000186	0.018288	0.005012	27.815897
150	30	0.000027	0.020589	0.001749	27.752926

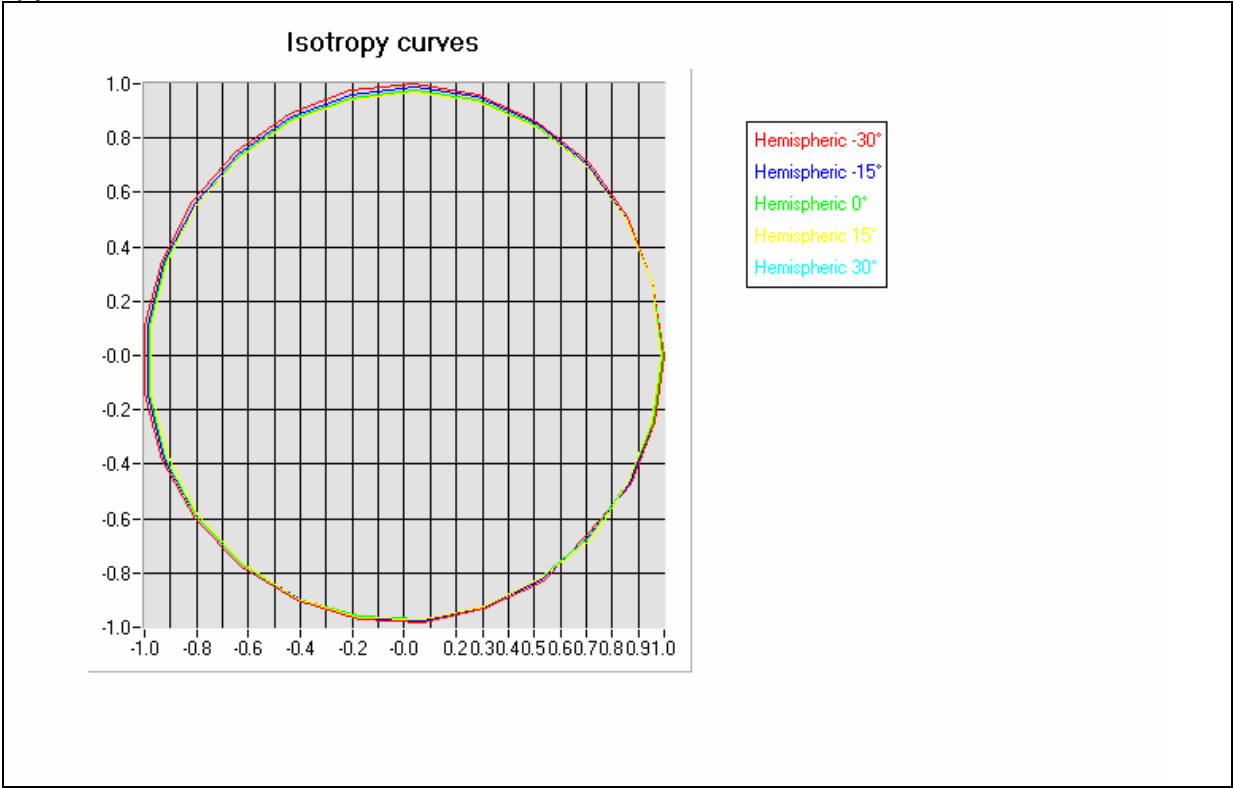
校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.002642	0.003386	0.019695	28.160695
165	-15	0.000866	0.007608	0.017131	28.013268
165	0	-0.000013	0.012116	0.013134	27.931472
165	15	0.000180	0.015896	0.008312	27.900729
165	30	0.001287	0.018370	0.003722	27.830326
180	-30	0.000494	0.001654	0.022858	28.005274
180	-15	-0.000040	0.004892	0.020451	27.951326
180	0	0.000597	0.008707	0.016153	27.930670
180	15	0.002120	0.012270	0.010827	27.918205
180	30	0.004025	0.014873	0.005324	27.828834

校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

Isotropy curves:



校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.2 Calibration Frequency: 900.00MHz

2.2.1 Calibration basic information

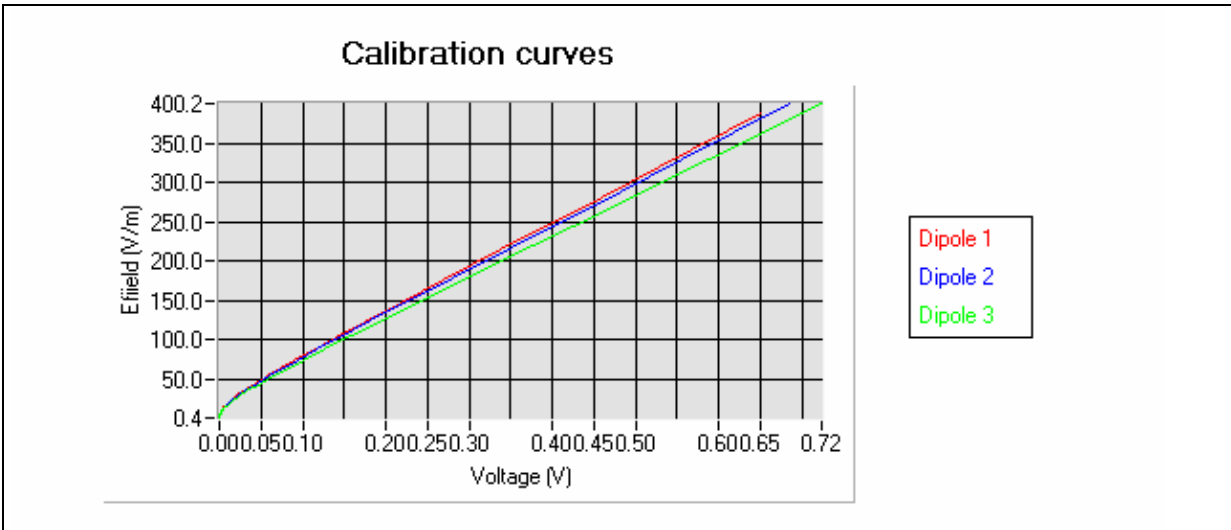
S/N	Calibration
1	Epsilon: 39.96
2	Sigma: 1.00 S/m
3	Temperature: 21°C
4	Cable loss: 0.20dB
5	Coupler loss: 19.78dB
6	Waveguide Return Loss: -13.30dB

2.2.2 Calibration parameters

2.2.2.1 Sensitivity (Low limit detection): 0.77V/m（0.60mW/Kg）

2.2.2.2 Linearity: 0.02dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.651213	388.513512	0.685668	400.153957	0.723685	399.177396
0.528092	320.117279	0.556817	329.841802	0.588098	328.979012
0.424280	262.353962	0.442265	267.239942	0.472170	268.882238
0.338616	214.572529	0.351046	217.275076	0.376169	219.018888
0.269308	175.774245	0.279782	178.110955	0.304091	181.476529
0.218929	147.433090	0.226659	148.782753	0.244352	150.239664
0.173786	121.861284	0.182143	124.052310	0.197976	125.858264
0.139814	102.429635	0.145045	103.258415	0.158355	104.869589
0.111882	86.245476	0.117076	87.392688	0.127484	88.344820
0.090392	73.584267	0.093517	73.816952	0.101238	74.094180
0.058297	54.087876	0.060528	54.275012	0.065655	54.212562
0.051729	49.957412	0.053730	50.072576	0.058367	50.014960
0.044591	45.248056	0.046382	45.352364	0.050487	45.352364
0.037546	40.513516	0.039078	40.606909	0.042658	40.606909
0.031152	36.066162	0.032476	36.149303	0.035556	36.149303
0.025672	32.107015	0.026846	32.181029	0.029425	32.144001
0.021005	28.549593	0.021982	28.582482	0.024180	28.582482
0.017092	25.327944	0.017921	25.386331	0.019766	25.357120
0.013868	22.521635	0.014540	22.573554	0.016066	22.547580
0.011179	20.026264	0.011731	20.049333	0.013008	20.049333
0.009009	17.786886	0.009433	17.827889	0.010483	17.807376
0.007191	15.816120	0.007566	15.834338	0.008396	15.834338
0.005744	14.096131	0.006057	14.112369	0.006755	14.112369
0.004607	12.534296	0.004840	12.563190	0.005412	12.563190
0.003678	11.171203	0.003868	11.184071	0.004297	11.184071
0.002885	9.895035	0.003067	9.956345	0.003435	9.925441
0.002326	8.908979	0.002426	8.873602	0.002718	8.852913
0.001813	7.896449	0.001934	7.901531	0.002181	7.955495
0.001447	7.086172	0.001540	7.082467	0.001700	7.055406
0.001139	6.324366	0.001200	6.290513	0.001352	6.324834
0.000847	5.505641	0.000948	5.632132	0.001064	5.649221
0.000696	5.030256	0.000724	4.974279	0.000817	4.997553
0.000536	4.471726	0.000565	4.448673	0.000639	4.469404
0.000403	3.947756	0.000427	3.935998	0.000483	3.948870
0.000315	3.558912	0.000315	3.464585	0.000369	3.520135
0.000231	3.143185	0.000246	3.139115	0.000312	3.284850
0.000159	2.737042	0.000181	2.798094	0.000186	2.692756
0.000112	2.435658	0.000140	2.559728	0.000150	2.497940
0.000086	2.251670	0.000088	2.220910	0.000099	2.192517
0.000050	1.968734	0.000070	2.090873	0.000038	1.758880
0.000019	1.685351	0.000031	1.776774	0.000008	1.498126

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
-0.000003	1.458298	0.000009	1.572145	-0.000013	1.287231
-0.000020	1.242525	-0.000012	1.351057	-0.000028	1.107355
-0.000032	1.069254	-0.000027	1.167491	-0.000040	0.953758
-0.000041	0.921178	-0.000039	0.992093	-0.000048	0.823851
-0.000048	0.788026	-0.000047	0.855040	-0.000054	0.706362
-0.000053	0.681189	-0.000053	0.733121	-0.000059	0.603911
-0.000057	0.585839	-0.000058	0.626955	-0.000063	0.518913
-0.000059	0.505323	-0.000061	0.532173	-0.000065	0.449089
-0.000061	0.433678	-0.000064	0.455348		

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.2.2.3 Isotropy
- Axial isotropy: 0.12dB
 - Hemispherical isotropy: 0.16 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000340	0.001472	0.020109	26.780271
-180	-15	-0.000084	0.004181	0.017874	26.600403
-180	0	0.000530	0.007394	0.014002	26.448530
-180	15	0.001778	0.010577	0.009242	26.388076
-180	30	0.003467	0.012930	0.004541	26.373895
-165	-30	0.000009	0.000163	0.021268	26.638027
-165	-15	0.000825	0.001778	0.019118	26.555835
-165	0	0.002586	0.004136	0.015097	26.359116
-165	15	0.004738	0.006754	0.010187	26.289046
-165	30	0.006806	0.009127	0.005115	26.285211
-150	-30	0.000722	-0.000006	0.020841	26.675423
-150	-15	0.002882	0.000127	0.018451	26.405845
-150	0	0.005695	0.001278	0.014430	26.241481
-150	15	0.008443	0.003143	0.009605	26.165022
-150	30	0.010551	0.005322	0.004741	26.207293
-135	-30	0.001948	0.001031	0.017828	25.910264
-135	-15	0.005173	0.000200	0.015599	26.018191
-135	0	0.008845	-0.000010	0.012122	26.134327
-135	15	0.012267	0.000690	0.007770	26.391487
-135	30	0.014775	0.002221	0.003440	26.716756
-120	-30	0.003208	0.003943	0.014867	26.478750
-120	-15	0.007138	0.002177	0.012074	26.225952
-120	0	0.011304	0.000653	0.008340	26.020386
-120	15	0.014629	0.000070	0.004654	26.019997
-120	30	0.016600	0.000404	0.001595	26.104805
-105	-30	0.003777	0.007666	0.010290	26.321745
-105	-15	0.008064	0.005503	0.007489	26.119567
-105	0	0.012316	0.003051	0.004507	25.961527
-105	15	0.015808	0.001093	0.001792	25.971642
-105	30	0.017751	0.000023	0.000259	26.103619
-90	-30	0.003549	0.011820	0.005739	26.321338
-90	-15	0.007742	0.009493	0.003230	26.111387
-90	0	0.011856	0.006495	0.001308	26.054749
-90	15	0.015348	0.003306	0.000072	26.027572
-90	30	0.017427	0.000937	-0.000074	26.212908

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.002501	0.015594	0.002090	26.371994
-75	-15	0.006037	0.013218	0.000597	26.167339
-75	0	0.009906	0.009761	-0.000056	26.073516
-75	15	0.013277	0.005963	0.000278	26.237237
-75	30	0.015468	0.002377	0.001493	26.320822
-60	-30	0.001234	0.018177	0.000178	26.547414
-60	-15	0.003759	0.015979	0.000030	26.369992
-60	0	0.006902	0.012295	0.001018	26.315791
-60	15	0.010034	0.007924	0.002568	26.307204
-60	30	0.012496	0.003713	0.004365	26.425877
-45	-30	0.000197	0.019311	0.000100	26.734744
-45	-15	0.001555	0.016961	0.001491	26.494937
-45	0	0.003820	0.013236	0.003768	26.380782
-45	15	0.006407	0.008654	0.006342	26.388416
-45	30	0.008772	0.004306	0.008520	26.478413
-30	-30	0.000012	0.018781	0.001483	26.933897
-30	-15	0.000109	0.016405	0.004339	26.722376
-30	0	0.001148	0.012635	0.007692	26.520507
-30	15	0.003011	0.008182	0.010608	26.363107
-30	30	0.005153	0.003937	0.012772	26.408356
-15	-30	0.001195	0.016800	0.003108	26.995851
-15	-15	0.000198	0.014245	0.007130	26.773854
-15	0	-0.000075	0.010666	0.011297	26.557559
-15	15	0.000624	0.006635	0.014617	26.409351
-15	30	0.002128	0.002853	0.016616	26.306868
0	-30	0.003622	0.013638	0.004544	26.989265
0	-15	0.001907	0.010995	0.009222	26.746126
0	0	0.000500	0.007605	0.013950	26.537738
0	15	-0.000071	0.004256	0.017460	26.365869
0	30	0.000335	0.001484	0.019434	26.303519
15	-30	0.007094	0.009647	0.005180	26.878949
15	-15	0.005044	0.007030	0.010071	26.601058
15	0	0.002699	0.004311	0.014937	26.432986
15	15	0.000908	0.001778	0.018675	26.292570
15	30	0.000005	0.000235	0.020621	26.209468
30	-30	0.011503	0.005874	0.004913	27.359412
30	-15	0.008972	0.003429	0.009820	26.843943
30	0	0.005829	0.001290	0.014282	26.241571
30	15	0.002864	0.000174	0.017722	25.913040
30	30	0.000779	-0.000109	0.019303	25.563506

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.014719	0.002281	0.003277	26.622121
45	-15	0.012423	0.000773	0.007445	26.361620
45	0	0.008991	0.000004	0.011889	26.098649
45	15	0.005318	0.000183	0.015614	26.120891
45	30	0.002052	0.001129	0.018007	26.159886
60	-30	0.017320	0.000351	0.001624	26.677018
60	-15	0.015061	-0.000102	0.004611	26.252947
60	0	0.011536	0.000513	0.008215	26.025079
60	15	0.007273	0.002018	0.011744	26.006108
60	30	0.003215	0.003772	0.014354	26.034409
75	-30	0.018462	0.000105	0.000321	26.764917
75	-15	0.016269	0.000983	0.001776	26.273598
75	0	0.012648	0.002948	0.004312	26.041469
75	15	0.008104	0.005234	0.007340	25.883904
75	30	0.003876	0.007323	0.009838	25.867602
90	-30	0.018156	0.000906	-0.000063	26.781456
90	-15	0.015799	0.003351	0.000056	26.406862
90	0	0.012083	0.006391	0.001174	26.083028
90	15	0.007740	0.009166	0.003188	25.853459
90	30	0.003563	0.011325	0.005579	25.880821
105	-30	0.016138	0.002398	0.001616	26.929574
105	-15	0.013709	0.005764	0.000344	26.476760
105	0	0.010100	0.009645	-0.000039	26.150029
105	15	0.006153	0.012810	0.000476	25.880822
105	30	0.002564	0.015053	0.001960	25.940797
120	-30	0.013086	0.003614	0.004588	26.922971
120	-15	0.010457	0.007713	0.002671	26.542149
120	0	0.007193	0.011918	0.000965	26.229622
120	15	0.003849	0.015448	0.000026	26.027713
120	30	0.001251	0.017589	0.000062	26.034840
135	-30	0.009280	0.004205	0.008743	26.900623
135	-15	0.006686	0.008557	0.006441	26.569185
135	0	0.003890	0.013008	0.003908	26.340441
135	15	0.001597	0.016493	0.001634	26.238470
135	30	0.000227	0.018501	0.000094	26.119354
150	-30	0.005457	0.003820	0.013192	26.817992
150	-15	0.003188	0.008099	0.010922	26.608540
150	0	0.001299	0.012371	0.007738	26.455451
150	15	0.000146	0.015968	0.004290	26.391197
150	30	-0.000024	0.017976	0.001541	26.329332

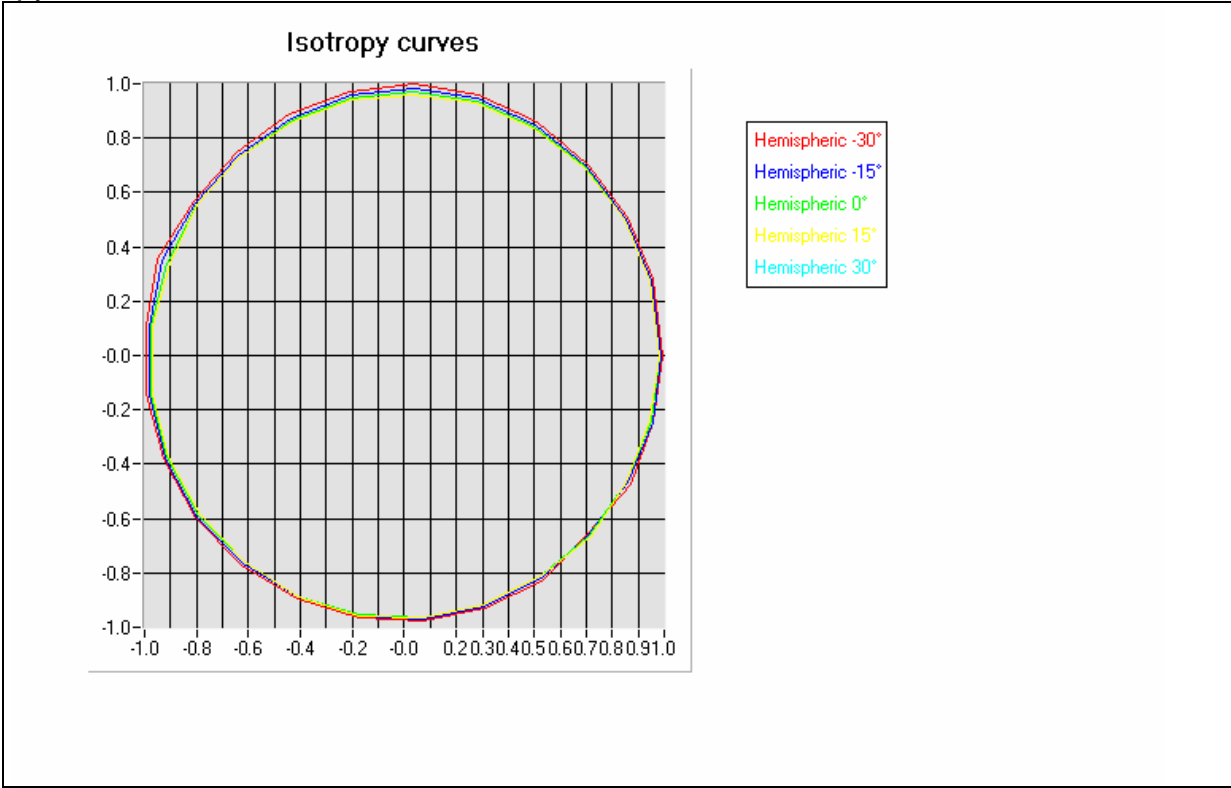
校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.002279	0.002839	0.017227	26.800492
165	-15	0.000683	0.006538	0.015067	26.684143
165	0	0.000011	0.010381	0.011423	26.484717
165	15	0.000100	0.013881	0.007230	26.498342
165	30	0.000998	0.016157	0.003255	26.467705
180	-30	0.000366	0.001434	0.020133	26.789868
180	-15	-0.000032	0.004101	0.017909	26.593271
180	0	0.000474	0.007491	0.014063	26.517404
180	15	0.001739	0.010558	0.009394	26.440122
180	30	0.003366	0.012985	0.004634	26.397546

校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

Isotropy curves:



校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.3 Calibration Frequency: 1747.00MHz

2.3.1 Calibration basic information

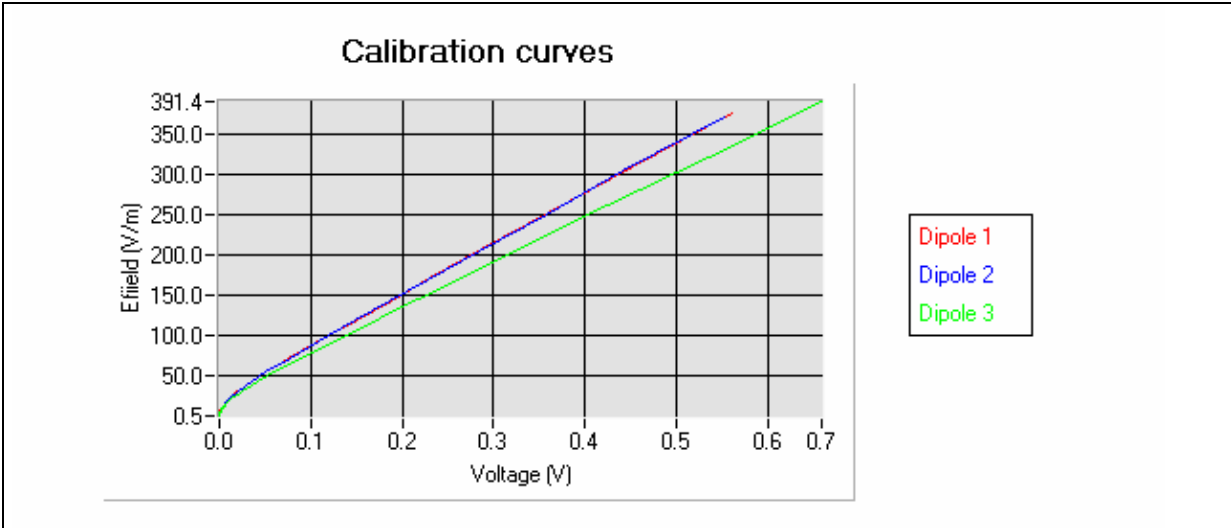
S/N	Calibration
1	Epsilon: 38.44
2	Sigma: 1.36 S/m
3	Temperature: 21°C
4	Cable loss: 0.28dB
5	Coupler loss: 19.85dB
6	Waveguide Return Loss: -13.22dB

2.3.2 Calibration parameters

2.3.2.1 Sensitivity (Low limit detection): 0.83V/m（0.93mW/Kg）

2.3.2.2 Linearity: 0.03dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.560670	377.200389	0.553788	373.503481	0.659632	391.382671
0.451485	309.408017	0.442837	304.448916	0.535674	322.748551
0.361190	253.226411	0.358292	251.717531	0.425472	261.635451
0.286844	206.820956	0.284651	205.645614	0.337716	212.852495
0.230748	171.649498	0.229033	170.693615	0.269159	174.607836
0.187441	144.333189	0.185732	143.317986	0.218053	145.961353
0.150152	120.617786	0.149220	120.045149	0.175227	121.798285
0.119393	100.824412	0.119092	100.618467	0.139537	101.472992
0.076417	72.478296	0.076998	72.812841	0.089966	72.645376
0.066125	65.419614	0.066624	65.721577	0.078158	65.645956
0.058142	59.938791	0.058601	60.215455	0.068949	60.146169
0.050063	54.226050	0.050456	54.413664	0.059600	54.351054
0.042419	48.664019	0.042756	48.832389	0.050729	48.720078
0.035556	43.471835	0.035847	43.622241	0.042730	43.521913
0.029518	38.744314	0.029762	38.878363	0.035667	38.833629
0.024282	34.411846	0.024475	34.530906	0.029515	34.491174
0.019884	30.634301	0.020057	30.740291	0.024319	30.704920
0.016188	27.271434	0.016355	27.334301	0.019933	27.302849
0.013129	24.249789	0.013277	24.333690	0.016247	24.305691
0.010594	21.587780	0.010702	21.637545	0.013159	21.612648
0.008450	19.151728	0.008573	19.217991	0.010589	19.195878
0.006797	17.068996	0.006883	17.108344	0.008517	17.088659
0.005406	15.195254	0.005515	15.230283	0.006838	15.212759
0.004335	13.527202	0.004405	13.574004	0.005477	13.558385
0.003449	12.056131	0.003512	12.097844	0.004371	12.083924
0.002768	10.720326	0.002783	10.757416	0.003460	10.745038
0.002174	9.558210	0.002219	9.587557	0.002751	9.576526
0.001728	8.553643	0.001749	8.554763	0.002191	8.510760
0.001339	7.569384	0.001366	7.590996	0.001735	7.607360
0.001037	6.706376	0.001082	6.799342	0.001381	6.824068
0.000835	6.060932	0.000845	6.060051	0.001078	6.073914
0.000665	5.458915	0.000664	5.428049	0.000846	5.429931
0.000526	4.912153	0.000524	4.883427	0.000641	4.789367
0.000359	4.161308	0.000389	4.293317	0.000501	4.297385
0.000263	3.660624	0.000294	3.823847	0.000365	3.758288
0.000245	3.558913	0.000212	3.366381	0.000302	3.480373
0.000183	3.183798	0.000154	3.000992	0.000231	3.137803
0.000138	2.881110	0.000107	2.668451	0.000146	2.670499
0.000057	2.235263	0.000078	2.440768	0.000099	2.372919
0.000048	2.151569	0.000048	2.180355	0.000056	2.063410
0.000002	1.659120	0.000029	1.997948	0.000035	1.893959

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
-0.000017	1.412466	-0.000011	1.545078	0.000008	1.650730
-0.000029	1.214215	-0.000008	1.583542	-0.000014	1.418592
-0.000039	1.044910	-0.000024	1.364245	-0.000030	1.225849
-0.000046	0.892691	-0.000037	1.167050	-0.000043	1.041684
-0.000051	0.761533	-0.000045	1.008826	-0.000052	0.897780
-0.000055	0.654947	-0.000052	0.867615	-0.000059	0.769767
-0.000058	0.560727	-0.000057	0.748373	-0.000064	0.658294
-0.000060	0.485526	-0.000060	0.642268	-0.000068	0.558774
		-0.000063	0.548697	-0.000070	0.478110
		-0.000065	0.470773		

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.3.2.3 Isotropy
- Axial isotropy: 0.10dB
 - Hemispherical isotropy: 0.15 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000857	0.001619	0.031032	37.012282
-180	-15	-0.000048	0.005362	0.027643	36.375060
-180	0	0.000685	0.010125	0.022015	36.153574
-180	15	0.002588	0.014721	0.014953	36.156901
-180	30	0.004900	0.018581	0.007816	36.561960
-165	-30	-0.000009	0.000044	0.032861	36.946099
-165	-15	0.001115	0.002037	0.029553	36.385803
-165	0	0.003737	0.005314	0.023659	35.939507
-165	15	0.006942	0.009333	0.016311	35.974805
-165	30	0.009703	0.013236	0.008757	36.246934
-150	-30	0.000828	0.000272	0.032299	37.137712
-150	-15	0.003989	0.000103	0.028545	36.277912
-150	0	0.008221	0.001438	0.022575	35.746258
-150	15	0.012248	0.004136	0.015346	35.631999
-150	30	0.015248	0.007580	0.007956	35.890747
-135	-30	0.002655	0.002333	0.029129	37.108331
-135	-15	0.007323	0.000577	0.025042	36.273310
-135	0	0.012648	-0.000078	0.019039	35.641532
-135	15	0.017255	0.000756	0.012214	35.499350
-135	30	0.020272	0.002827	0.005804	35.654016
-120	-30	0.004143	0.006597	0.023909	37.111391
-120	-15	0.009969	0.003691	0.019285	36.144393
-120	0	0.015998	0.001323	0.013531	35.644949
-120	15	0.020872	0.000072	0.007781	35.516393
-120	30	0.024058	0.000213	0.002837	35.732075
-105	-30	0.004904	0.012105	0.017136	36.987860
-105	-15	0.011083	0.009009	0.012361	36.226194
-105	0	0.017273	0.005433	0.007345	35.718137
-105	15	0.022404	0.002226	0.003158	35.679129
-105	30	0.025684	0.000349	0.000574	36.095613
-90	-30	0.004558	0.018074	0.009846	36.995877
-90	-15	0.010477	0.014812	0.005635	36.284683
-90	0	0.016621	0.010421	0.002079	35.896498
-90	15	0.021737	0.005941	0.000217	36.027382
-90	30	0.025304	0.002001	0.000044	36.468311

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.003178	0.023397	0.003723	37.230084
-75	-15	0.008165	0.020169	0.001052	36.607285
-75	0	0.013755	0.015273	0.000009	36.218403
-75	15	0.018929	0.009676	0.000513	36.385658
-75	30	0.022744	0.004476	0.002150	36.785875
-60	-30	0.001417	0.026922	0.000399	37.562185
-60	-15	0.005094	0.023637	-0.000017	36.898507
-60	0	0.009836	0.018516	0.001399	36.558803
-60	15	0.014633	0.012335	0.003859	36.549296
-60	30	0.018694	0.006274	0.006643	36.910033
-45	-30	0.000122	0.028618	0.000097	38.110455
-45	-15	0.001862	0.025278	0.002343	37.339578
-45	0	0.005233	0.019964	0.005745	36.813768
-45	15	0.009257	0.013554	0.009619	36.601581
-45	30	0.013327	0.007000	0.012773	36.699387
-30	-30	0.000191	0.027917	0.002080	38.406008
-30	-15	0.000084	0.024405	0.006452	37.571628
-30	0	0.001587	0.019035	0.011614	36.900478
-30	15	0.004314	0.012709	0.016125	36.485314
-30	30	0.007907	0.006368	0.019290	36.431199
-15	-30	0.002117	0.025452	0.004529	38.582502
-15	-15	0.000397	0.021617	0.010697	37.685746
-15	0	-0.000052	0.016189	0.016891	36.815358
-15	15	0.000850	0.010311	0.022017	36.370065
-15	30	0.003206	0.004724	0.025131	36.207031
0	-30	0.005900	0.021093	0.006668	38.434039
0	-15	0.003200	0.016962	0.013824	37.474590
0	0	0.001104	0.011700	0.020646	36.578479
0	15	-0.000039	0.006641	0.026194	36.208765
0	30	0.000445	0.002445	0.029413	36.143557
15	-30	0.011142	0.015551	0.007543	38.107269
15	-15	0.008047	0.011186	0.015054	37.138456
15	0	0.004550	0.006613	0.022398	36.411975
15	15	0.001645	0.002816	0.028071	36.121907
15	30	0.000091	0.000377	0.031196	36.015967
30	-30	0.017090	0.009304	0.006887	37.739207
30	-15	0.013832	0.005314	0.014135	36.738719
30	0	0.009487	0.002138	0.021299	36.142110
30	15	0.005030	0.000259	0.027009	35.966902
30	30	0.001476	-0.000052	0.030545	36.106961

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.022470	0.004036	0.004784	37.512356
45	-15	0.019158	0.001260	0.010983	36.530433
45	0	0.014250	-0.000030	0.017596	35.915357
45	15	0.008630	0.000339	0.023417	35.934911
45	30	0.003579	0.001698	0.027292	36.085384
60	-30	0.026334	0.000651	0.002232	37.504977
60	-15	0.022972	-0.000083	0.006640	36.502283
60	0	0.017711	0.000902	0.012108	35.853892
60	15	0.011466	0.003092	0.017592	35.774605
60	30	0.005330	0.005602	0.021935	35.994514
75	-30	0.028106	-0.000063	0.000167	37.683167
75	-15	0.024658	0.001535	0.002441	36.752269
75	0	0.019160	0.004479	0.006203	35.976769
75	15	0.012670	0.007833	0.010684	35.658412
75	30	0.006217	0.010950	0.015100	35.887692
90	-30	0.027542	0.001292	0.000177	37.943785
90	-15	0.023820	0.004926	0.000041	36.969813
90	0	0.018229	0.009244	0.001569	36.057307
90	15	0.011882	0.013525	0.004482	35.774358
90	30	0.005625	0.016529	0.008347	35.797263
105	-30	0.024878	0.003351	0.002790	38.086588
105	-15	0.020866	0.008506	0.000798	37.213843
105	0	0.015363	0.013880	-0.000098	36.349497
105	15	0.009389	0.018553	0.000536	35.918553
105	30	0.003985	0.021617	0.002881	35.951599
120	-30	0.020634	0.005048	0.007539	38.018905
120	-15	0.016259	0.011016	0.004603	37.193540
120	0	0.011080	0.016917	0.001921	36.436420
120	15	0.005983	0.021785	0.000268	36.116635
120	30	0.002027	0.024811	0.000080	36.078866
135	-30	0.015143	0.005632	0.014028	37.760114
135	-15	0.010724	0.011951	0.010773	37.061721
135	0	0.006219	0.018079	0.006803	36.495534
135	15	0.002553	0.023038	0.003125	36.314042
135	30	0.000371	0.026244	0.000418	36.448105
150	-30	0.009362	0.005112	0.020752	37.444172
150	-15	0.005333	0.011076	0.017462	36.776723
150	0	0.002200	0.017101	0.012656	36.392027
150	15	0.000305	0.022119	0.007539	36.439357
150	30	0.000040	0.025359	0.002833	36.629186

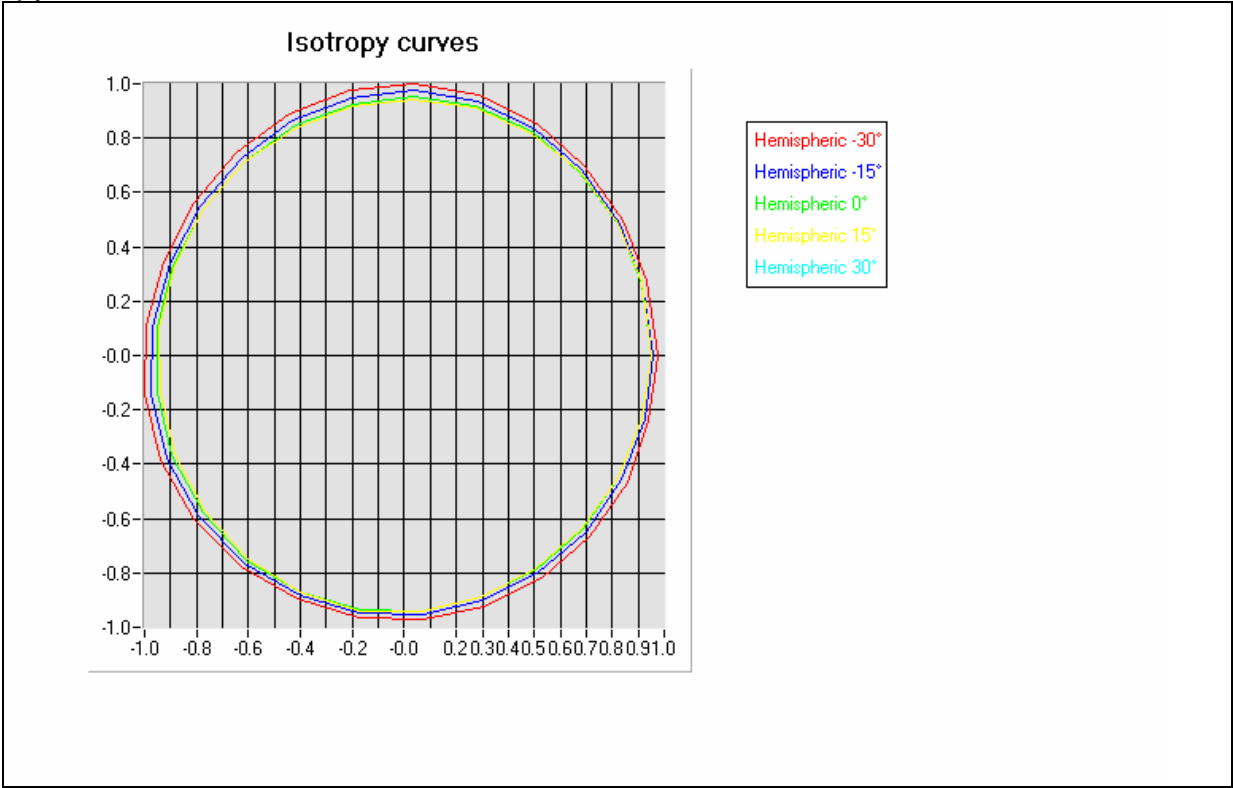
校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.004270	0.003496	0.026710	37.128699
165	-15	0.001450	0.008562	0.023513	36.540327
165	0	0.000083	0.014225	0.018234	36.274532
165	15	0.000205	0.019207	0.011932	36.428829
165	30	0.001498	0.022719	0.005729	36.692787
180	-30	0.000935	0.001497	0.031110	37.040748
180	-15	-0.000013	0.005125	0.027775	36.338898
180	0	0.000683	0.009860	0.022275	36.140967
180	15	0.002537	0.014619	0.015302	36.253536
180	30	0.004870	0.018455	0.008077	36.581533

校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

Isotropy curves:



校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.4 Calibration Frequency: 1880.00MHz

2.4.1 Calibration basic information

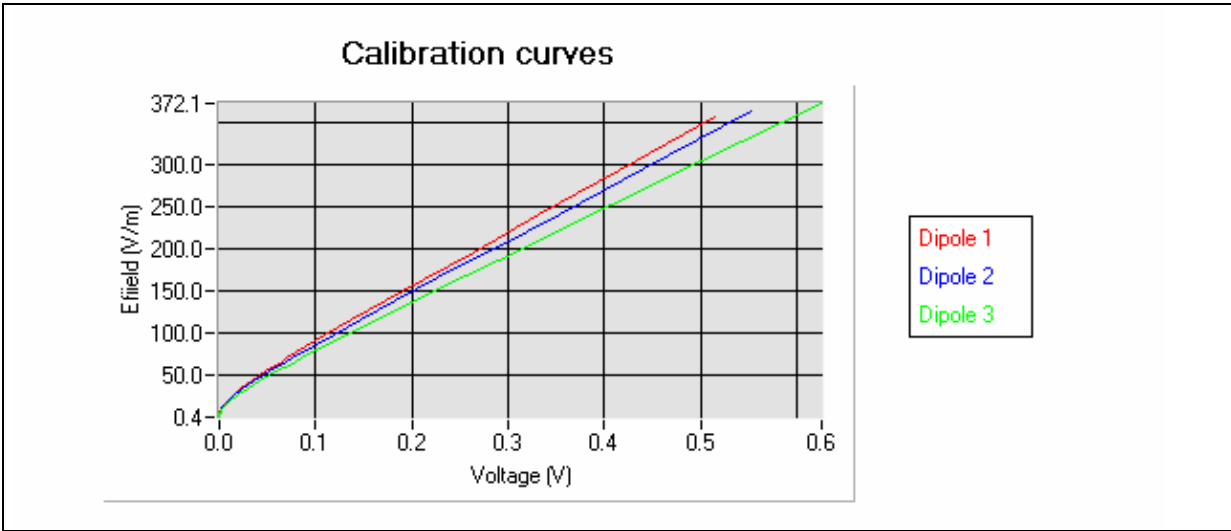
S/N	Calibration
1	Epsilon: 38.67
2	Sigma: 1.43 S/m
3	Temperature: 21°C
4	Cable loss: 0.30dB
5	Coupler loss: 19.47dB
6	Waveguide Return Loss: -22.92dB

2.4.2 Calibration parameters

2.4.2.1 Sensitivity (Low limit detection): 0.83V/m（0.97mW/Kg）

2.4.2.2 Linearity: 0.04dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.515239	355.702204	0.552248	362.707776	0.625762	372.146585
0.414902	292.300739	0.441019	295.381960	0.501203	303.300460
0.331924	239.734485	0.352662	241.779311	0.407017	251.152479
0.263601	196.287249	0.285332	200.803884	0.323283	204.672962
0.212051	163.329055	0.226687	164.950141	0.256604	167.516551
0.172253	137.703502	0.182395	137.694582	0.204513	138.327680
0.137985	115.424217	0.147911	116.292420	0.165681	116.407155
0.109719	96.794399	0.118834	98.038305	0.133141	97.855854
0.070225	70.063632	0.075429	70.144342	0.085579	70.144342
0.062588	64.638705	0.067359	64.787713	0.076617	64.787713
0.054906	59.223306	0.059221	59.291529	0.067546	59.291529
0.047393	53.702270	0.051175	53.764133	0.058590	53.764133
0.040108	48.193964	0.043386	48.193964	0.049841	48.249481
0.033516	43.051932	0.036316	43.051932	0.041920	43.101526
0.027726	38.370075	0.030165	38.325925	0.034945	38.370075
0.022724	34.118713	0.024817	34.079455	0.028861	34.118713
0.018619	30.373347	0.020347	30.338398	0.023754	30.373347
0.015142	27.039126	0.016617	27.008014	0.019427	27.039126
0.012257	24.070918	0.013475	24.043221	0.015814	24.070918
0.009908	21.428543	0.010886	21.403887	0.012883	21.403887
0.007945	19.010461	0.008727	18.988587	0.010342	19.010461
0.006378	16.943091	0.007023	16.923596	0.008326	16.923596
0.005048	15.083171	0.005623	15.065815	0.006684	15.083171
0.004084	13.458376	0.004505	13.427422	0.005338	13.442890
0.003237	11.980989	0.003590	11.967203	0.004274	11.967203
0.002584	10.660158	0.002843	10.665781	0.003418	10.665781
0.002047	9.527213	0.002242	9.505887	0.002720	9.516838
0.001615	8.506976	0.001766	8.472131	0.002127	8.447524
0.001239	7.506967	0.001394	7.508317	0.001676	7.534858
0.000987	6.754384	0.001112	6.748234	0.001330	6.751555
0.000767	6.020943	0.000879	6.048586	0.001053	6.051822
0.000589	5.354496	0.000679	5.375888	0.000828	5.417327
0.000464	4.831852	0.000515	4.753766	0.000646	4.843661
0.000355	4.324859	0.000386	4.200158	0.000467	4.203772
0.000260	3.828616	0.000301	3.791452	0.000361	3.774039
0.000207	3.521504	0.000223	3.373110	0.000262	3.322866
0.000128	3.006049	0.000167	3.037435	0.000191	2.957212
0.000066	2.528974	0.000106	2.623360	0.000156	2.759186
0.000028	2.185696	0.000060	2.261508	0.000095	2.374910
0.000011	2.013262	0.000039	2.075445	0.000062	2.138431
-0.000015	1.713959	0.000021	1.901526	0.000027	1.854964

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
-0.000033	1.473392	0.000006	1.743390	-0.000010	1.498068
-0.000046	1.267948	-0.000001	1.664460	-0.000028	1.294527
-0.000057	1.083238	-0.000020	1.423870	-0.000042	1.100044
-0.000064	0.924084	-0.000034	1.230828	-0.000052	0.948078
-0.000069	0.794747	-0.000044	1.058542	-0.000059	0.812893
-0.000073	0.680415	-0.000051	0.913060	-0.000064	0.695175
-0.000076	0.589163	-0.000057	0.783606	-0.000069	0.590079
-0.000078	0.499960	-0.000061	0.669443	-0.000072	0.504896
		-0.000065	0.574372	-0.000074	0.431759
		-0.000067	0.494734		

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.4.2.3 Isotropy
- Axial isotropy: 0.08dB
 - Hemispherical isotropy: 0.16 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000839	0.001448	0.029624	36.034379
-180	-15	-0.000104	0.004990	0.026468	35.320804
-180	0	0.000601	0.009483	0.021025	34.954082
-180	15	0.002413	0.013979	0.014234	34.922223
-180	30	0.004530	0.017801	0.007396	35.239116
-165	-30	-0.000047	0.000056	0.031559	36.094620
-165	-15	0.001080	0.001782	0.028124	35.345470
-165	0	0.003587	0.004868	0.022353	34.807368
-165	15	0.006452	0.008771	0.015343	34.811120
-165	30	0.009035	0.012435	0.008200	34.987310
-150	-30	0.000839	0.000171	0.030961	36.261925
-150	-15	0.003782	0.000062	0.027151	35.391074
-150	0	0.007725	0.001346	0.021259	34.847627
-150	15	0.011289	0.003879	0.014355	34.639365
-150	30	0.013951	0.007156	0.007411	34.799240
-135	-30	0.002425	0.002312	0.028026	36.362048
-135	-15	0.006917	0.000592	0.023702	35.457334
-135	0	0.011781	-0.000077	0.017724	34.807348
-135	15	0.015875	0.000646	0.011262	34.529623
-135	30	0.018631	0.002612	0.005241	34.709406
-120	-30	0.004021	0.006240	0.023037	36.329247
-120	-15	0.009450	0.003518	0.018194	35.396240
-120	0	0.014842	0.001311	0.012624	34.861594
-120	15	0.019347	0.000019	0.006989	34.709899
-120	30	0.021976	0.000256	0.002576	34.875666
-105	-30	0.004676	0.011551	0.016638	36.181082
-105	-15	0.010525	0.008453	0.011693	35.339732
-105	0	0.016208	0.004969	0.006796	34.896317
-105	15	0.020761	0.001983	0.002813	34.908165
-105	30	0.023531	0.000232	0.000486	35.232573
-90	-30	0.004360	0.017490	0.009590	36.033659
-90	-15	0.009913	0.014203	0.005355	35.387556
-90	0	0.015518	0.009788	0.002050	35.022862
-90	15	0.020214	0.005416	0.000249	35.236556
-90	30	0.023225	0.001816	0.000033	35.645159

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.003050	0.022587	0.003726	36.003709
-75	-15	0.007852	0.019302	0.001039	35.462549
-75	0	0.013076	0.014213	0.000006	35.149750
-75	15	0.017785	0.008739	0.000417	35.379320
-75	30	0.020985	0.003929	0.002031	35.817464
-60	-30	0.001329	0.026298	0.000444	36.329079
-60	-15	0.004832	0.022747	0.000107	35.623634
-60	0	0.009302	0.017491	0.001469	35.353332
-60	15	0.013720	0.011471	0.003759	35.541763
-60	30	0.017288	0.005616	0.006209	35.828302
-45	-30	0.000076	0.027833	0.000220	36.699077
-45	-15	0.001876	0.024214	0.002376	35.911446
-45	0	0.005061	0.018862	0.005698	35.531406
-45	15	0.008903	0.012508	0.009064	35.385359
-45	30	0.012656	0.006320	0.011806	35.647996
-30	-30	0.000141	0.027216	0.002065	37.063385
-30	-15	0.000120	0.023518	0.006374	36.241180
-30	0	0.001551	0.018034	0.011266	35.554591
-30	15	0.004181	0.011815	0.015426	35.321980
-30	30	0.007503	0.005762	0.018273	35.395579
-15	-30	0.001933	0.024466	0.004660	37.195449
-15	-15	0.000419	0.020495	0.010469	36.266371
-15	0	-0.000073	0.015297	0.016404	35.596781
-15	15	0.000907	0.009418	0.021176	35.191202
-15	30	0.003081	0.004247	0.024061	35.238656
0	-30	0.005515	0.020176	0.006495	37.139893
0	-15	0.003004	0.015975	0.013413	36.174481
0	0	0.000985	0.010907	0.020090	35.546436
0	15	0.000015	0.005947	0.025248	35.137281
0	30	0.000528	0.002031	0.028030	35.081580
15	-30	0.010390	0.014638	0.007246	36.900797
15	-15	0.007435	0.010425	0.014528	36.014375
15	0	0.004279	0.006042	0.021376	35.337107
15	15	0.001518	0.002477	0.026853	35.114450
15	30	0.000039	0.000318	0.029987	35.193639
30	-30	0.015737	0.008719	0.006489	36.645435
30	-15	0.012729	0.004987	0.013477	35.837562
30	0	0.008728	0.001908	0.020235	35.231964
30	15	0.004548	0.000305	0.025895	35.180959
30	30	0.001327	-0.000001	0.029266	35.301236

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.020731	0.003585	0.004378	36.509912
45	-15	0.017748	0.001047	0.010355	35.739362
45	0	0.013093	-0.000008	0.016763	35.235955
45	15	0.008038	0.000219	0.022306	35.113792
45	30	0.003212	0.001720	0.026209	35.316837
60	-30	0.024228	0.000664	0.001973	36.707324
60	-15	0.021182	-0.000063	0.006156	35.763061
60	0	0.016378	0.000895	0.011366	35.111266
60	15	0.010652	0.002903	0.016764	35.061975
60	30	0.004962	0.005363	0.021167	35.273341
75	-30	0.025853	-0.000024	0.000217	36.932930
75	-15	0.022753	0.001432	0.002284	36.053597
75	0	0.017766	0.004254	0.005840	35.224754
75	15	0.011803	0.007455	0.010265	34.897887
75	30	0.005701	0.010486	0.014703	35.025636
90	-30	0.025322	0.001326	0.000275	37.212376
90	-15	0.022033	0.004685	0.000111	36.263499
90	0	0.016975	0.008869	0.001501	35.310715
90	15	0.011156	0.012830	0.004375	34.853917
90	30	0.005299	0.015991	0.008197	34.894845
105	-30	0.023022	0.003206	0.002614	37.363854
105	-15	0.019356	0.007978	0.000875	36.353210
105	0	0.014354	0.013159	0.000007	35.402842
105	15	0.008926	0.017793	0.000556	34.878289
105	30	0.003903	0.020890	0.002753	34.821105
120	-30	0.019214	0.004655	0.007058	37.180521
120	-15	0.015250	0.010374	0.004305	36.261745
120	0	0.010439	0.016193	0.001797	35.407403
120	15	0.005626	0.021103	0.000265	34.969825
120	30	0.001900	0.024225	0.000111	34.904195
135	-30	0.014216	0.005345	0.013071	36.890327
135	-15	0.010068	0.011305	0.010177	36.034448
135	0	0.005899	0.017250	0.006377	35.233566
135	15	0.002425	0.022349	0.002850	35.016262
135	30	0.000314	0.025613	0.000418	35.182826
150	-30	0.008892	0.004725	0.019476	36.459832
150	-15	0.005107	0.010515	0.016447	35.710623
150	0	0.002043	0.016456	0.012049	35.170341
150	15	0.000300	0.021441	0.007117	35.149235
150	30	-0.000007	0.024777	0.002712	35.392911

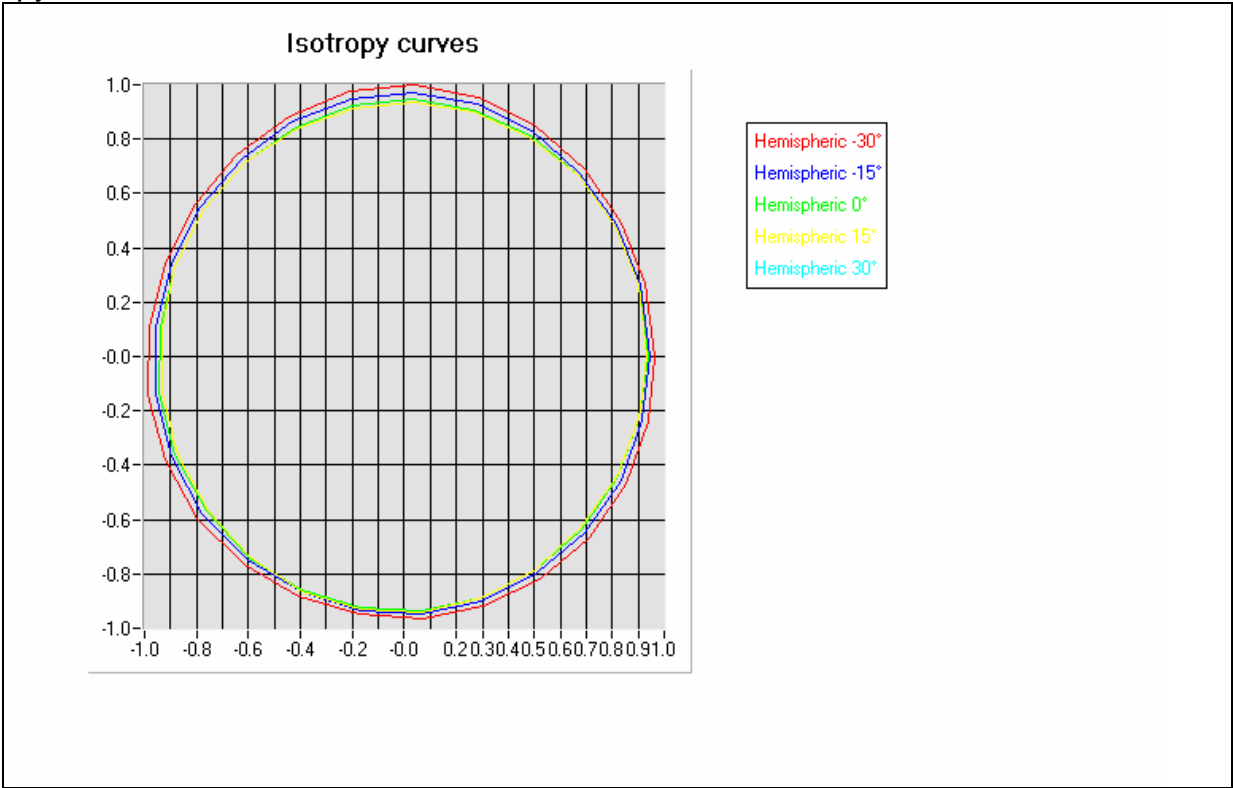
校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.004025	0.003335	0.025451	36.205242
165	-15	0.001290	0.008247	0.022379	35.447071
165	0	0.000064	0.013575	0.017384	35.101061
165	15	0.000214	0.018488	0.011296	35.093067
165	30	0.001361	0.022107	0.005481	35.478850
180	-30	0.000868	0.001387	0.029681	36.055821
180	-15	-0.000026	0.004898	0.026517	35.330897
180	0	0.000643	0.009445	0.021110	35.007419
180	15	0.002320	0.014091	0.014390	35.030161
180	30	0.004517	0.017884	0.007502	35.342475

校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

Isotropy curves:



校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.5 Calibration Frequency: 1950.00MHz

2.5.1 Calibration basic information

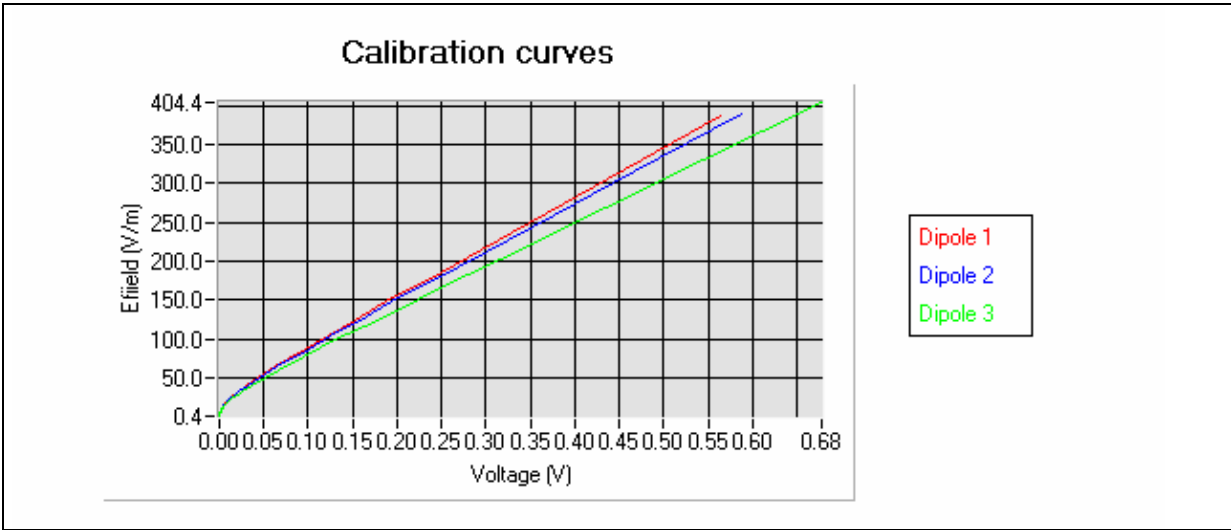
S/N	Calibration
1	Epsilon: 40.23
2	Sigma: 1.44 S/m
3	Temperature: 21°C
4	Cable loss: 0.32dB
5	Coupler loss: 19.38dB
6	Waveguide Return Loss: -26.50dB

2.5.2 Calibration parameters

2.5.2.1 Sensitivity (Low limit detection): 0.77V/m（0.86mW/Kg）

2.5.2.2 Linearity: 0.03dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.564107	385.939731	0.587413	389.696643	0.677426	404.389778
0.456852	318.159910	0.467229	315.831942	0.544050	329.929676
0.367884	261.825220	0.376250	259.806938	0.434269	268.550186
0.294309	215.099938	0.300470	213.007972	0.352462	222.712745
0.233729	176.459024	0.240271	175.677377	0.280462	182.244008
0.188021	147.125042	0.194399	147.068643	0.224635	150.721845
0.152733	124.296301	0.154443	121.950150	0.182422	126.739245
0.122348	104.425152	0.124267	102.768743	0.144893	105.233774
0.097285	87.783426	0.100773	87.624254	0.115008	87.896184
0.062267	63.815694	0.064616	63.815694	0.074257	63.815694
0.056092	59.419295	0.058316	59.419295	0.067148	59.419295
0.049728	54.818544	0.051793	54.818544	0.059812	54.818544
0.043138	49.937580	0.045049	49.937580	0.052195	49.937580
0.036627	44.970476	0.038282	44.970476	0.044552	44.970476
0.030587	40.218650	0.032039	40.218650	0.037464	40.218650
0.025276	35.803666	0.026518	35.844910	0.031129	35.844910
0.020606	31.763437	0.021703	31.800027	0.025583	31.800027
0.016849	28.309193	0.017748	28.341804	0.021025	28.309193
0.013685	25.201564	0.014457	25.230595	0.017177	25.201564
0.011061	22.435073	0.011715	22.460918	0.013970	22.435073
0.008933	19.972273	0.009441	19.995280	0.011323	19.995280
0.007160	17.738933	0.007576	17.759367	0.009101	17.759367
0.005746	15.828053	0.006073	15.846286	0.007326	15.828053
0.004615	14.106767	0.004869	14.123017	0.005865	14.106767
0.003670	12.572669	0.003879	12.587153	0.004711	12.572669
0.002921	11.192510	0.003089	11.205403	0.003776	11.205403
0.002320	9.975335	0.002456	9.986826	0.003007	9.986826
0.001818	8.888073	0.001944	8.911022	0.002380	8.900768
0.001415	7.884560	0.001540	7.941956	0.001871	7.932818
0.001123	7.068997	0.001217	7.098519	0.001488	7.096296
0.000890	6.343448	0.000954	6.333915	0.001177	6.348117
0.000700	5.683649	0.000729	5.597494	0.000904	5.609707
0.000542	5.069999	0.000569	5.008365	0.000693	4.964306
0.000417	4.525946	0.000425	4.411387	0.000530	4.401403
0.000317	4.038270	0.000320	3.919177	0.000419	3.972684
0.000228	3.548307	0.000253	3.569805	0.000291	3.412074
0.000159	3.115871	0.000182	3.157668	0.000223	3.072929
0.000111	2.775591	0.000121	2.754766	0.000191	2.899638
0.000074	2.481648	0.000080	2.446963	0.000128	2.523937
0.000032	2.098671	0.000049	2.185644	0.000097	2.316810
0.000009	1.855751	0.000029	1.999003	0.000065	2.081494

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.000000	1.751548	0.000013	1.836081	0.000022	1.715182
-0.000019	1.505704	0.000003	1.726464	0.000021	1.705727
-0.000033	1.295755	0.000000	1.692195	0.000010	1.598038
-0.000044	1.106994	-0.000019	1.455329	-0.000011	1.366620
-0.000052	0.944350	-0.000033	1.255314	-0.000027	1.160016
-0.000058	0.812176	-0.000044	1.077335	-0.000038	0.992556
-0.000062	0.695337	-0.000052	0.920379	-0.000047	0.848779
-0.000065	0.602084	-0.000057	0.789671	-0.000053	0.726313
-0.000067	0.510925	-0.000061	0.680181	-0.000057	0.628693
-0.000069	0.441694	-0.000065	0.580707	-0.000060	0.537946
		-0.000067	0.501487	-0.000062	0.462823
		-0.000069	0.429761		

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.5.2.3 Isotropy
- Axial isotropy: 0.10dB
 - Hemispherical isotropy: 0.17 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000766	0.001225	0.027064	34.157882
-180	-15	-0.000053	0.004266	0.024236	33.488450
-180	0	0.000575	0.008442	0.019376	33.289319
-180	15	0.002157	0.012579	0.013142	33.267213
-180	30	0.004176	0.016012	0.006732	33.484128
-165	-30	-0.000024	0.000065	0.028766	34.230246
-165	-15	0.000905	0.001621	0.025690	33.514969
-165	0	0.003156	0.004395	0.020631	33.133869
-165	15	0.005875	0.007847	0.014085	33.029076
-165	30	0.008242	0.011274	0.007471	33.221575
-150	-30	0.000707	0.000261	0.028204	34.381682
-150	-15	0.003380	0.000111	0.024778	33.532990
-150	0	0.006886	0.001240	0.019571	33.003077
-150	15	0.010365	0.003444	0.013057	32.772179
-150	30	0.012896	0.006391	0.006655	32.925238
-135	-30	0.002163	0.002089	0.025431	34.374591
-135	-15	0.006165	0.000532	0.021659	33.488469
-135	0	0.010718	-0.000130	0.016301	32.915964
-135	15	0.014673	0.000577	0.010298	32.710469
-135	30	0.017192	0.002344	0.004798	32.794267
-120	-30	0.003500	0.005677	0.020916	34.354301
-120	-15	0.008442	0.003276	0.016559	33.408291
-120	0	0.013492	0.001301	0.011489	32.930361
-120	15	0.017772	0.000166	0.006367	32.795232
-120	30	0.020379	0.000302	0.002389	33.013033
-105	-30	0.004128	0.010495	0.014992	34.173584
-105	-15	0.009403	0.007701	0.010558	33.335732
-105	0	0.014786	0.004558	0.006066	32.903106
-105	15	0.019155	0.001958	0.002485	32.990578
-105	30	0.021881	0.000253	0.000361	33.268434
-90	-30	0.003838	0.015746	0.008523	34.029537
-90	-15	0.008957	0.012871	0.004593	33.347996
-90	0	0.014127	0.009056	0.001670	33.089500
-90	15	0.018550	0.005060	0.000135	33.260540
-90	30	0.021467	0.001832	0.000151	33.742537

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.002605	0.020550	0.003313	34.192636
-75	-15	0.006993	0.017510	0.000765	33.528358
-75	0	0.011778	0.013151	-0.000036	33.325805
-75	15	0.016182	0.008222	0.000396	33.514961
-75	30	0.019404	0.003739	0.001886	33.994548
-60	-30	0.001160	0.023837	0.000324	34.533429
-60	-15	0.004198	0.020876	0.000086	33.928456
-60	0	0.008262	0.016056	0.001303	33.544587
-60	15	0.012379	0.010622	0.003519	33.717619
-60	30	0.015880	0.005205	0.005763	34.013909
-45	-30	0.000050	0.025290	0.000180	35.001804
-45	-15	0.001623	0.022093	0.002133	34.261782
-45	0	0.004439	0.017098	0.005309	33.742167
-45	15	0.008010	0.011326	0.008426	33.606776
-45	30	0.011490	0.005655	0.010949	33.781777
-30	-30	0.000163	0.024682	0.001881	35.351919
-30	-15	0.000041	0.021343	0.005871	34.573191
-30	0	0.001334	0.016269	0.010317	33.837452
-30	15	0.003744	0.010595	0.014107	33.484147
-30	30	0.006810	0.005192	0.016628	33.501610
-15	-30	0.001794	0.022274	0.004226	35.505584
-15	-15	0.000352	0.018578	0.009707	34.642474
-15	0	-0.000062	0.013659	0.015176	33.884553
-15	15	0.000748	0.008321	0.019436	33.354675
-15	30	0.002864	0.003588	0.021987	33.350541
0	-30	0.004999	0.018289	0.006082	35.388859
0	-15	0.002720	0.014334	0.012398	34.453422
0	0	0.000855	0.009767	0.018461	33.782546
0	15	0.000003	0.005182	0.023110	33.315056
0	30	0.000435	0.001746	0.025755	33.340854
15	-30	0.009555	0.013295	0.006620	35.096416
15	-15	0.006861	0.009365	0.013295	34.241693
15	0	0.003826	0.005385	0.019628	33.528538
15	15	0.001404	0.002091	0.024494	33.250313
15	30	0.000073	0.000260	0.027236	33.294150
30	-30	0.014650	0.007894	0.005855	34.806779
30	-15	0.011811	0.004354	0.012233	33.926630
30	0	0.008008	0.001681	0.018513	33.360876
30	15	0.004234	0.000158	0.023563	33.259244
30	30	0.001197	0.000020	0.026518	33.340940

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

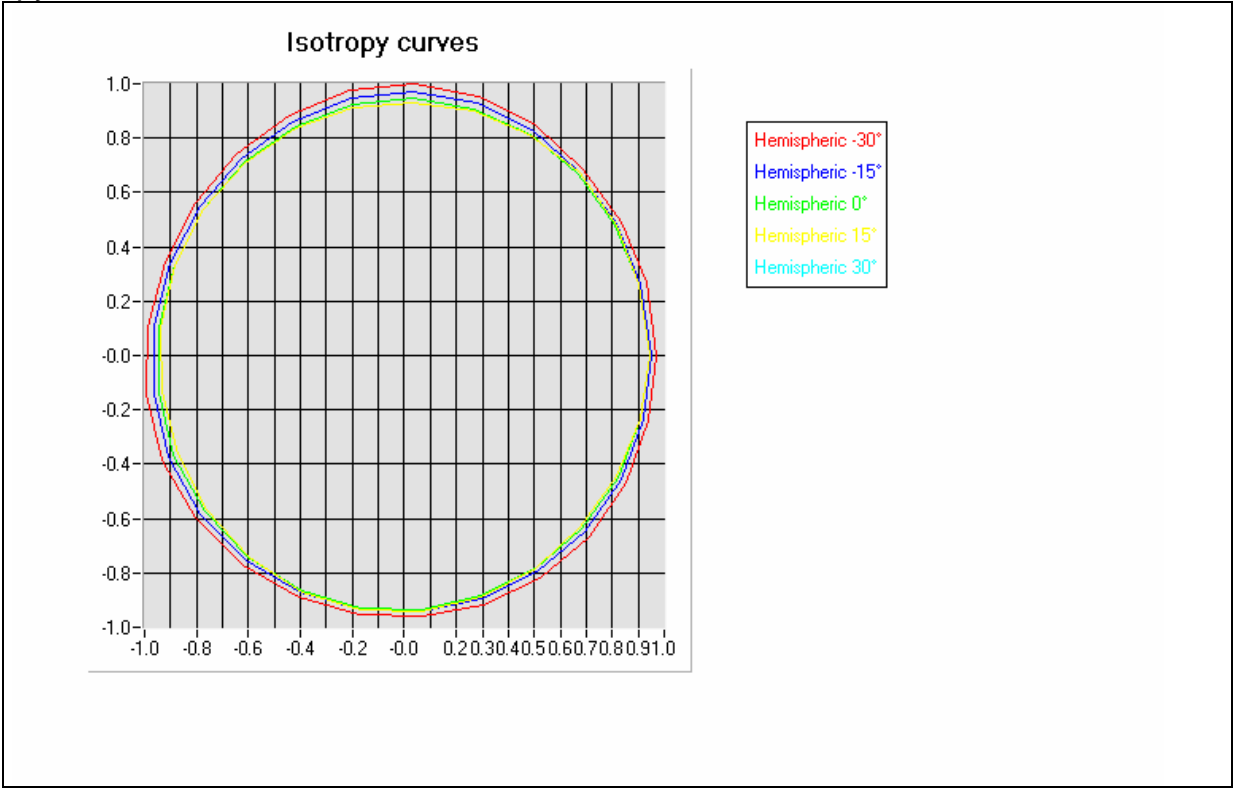
Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.019305	0.003304	0.004033	34.678630
45	-15	0.016441	0.000895	0.009406	33.807918
45	0	0.012042	0.000024	0.015235	33.287644
45	15	0.007268	0.000303	0.020217	33.152346
45	30	0.002926	0.001612	0.023714	33.370382
60	-30	0.022734	0.000468	0.001668	34.733575
60	-15	0.019676	-0.000077	0.005548	33.805537
60	0	0.015027	0.000946	0.010412	33.272565
60	15	0.009546	0.002762	0.015273	33.085005
60	30	0.004393	0.004877	0.019096	33.231935
75	-30	0.024095	-0.000032	0.000172	34.916792
75	-15	0.021088	0.001354	0.001937	34.001681
75	0	0.016269	0.004006	0.005132	33.247602
75	15	0.010562	0.006991	0.009304	33.014191
75	30	0.005079	0.009389	0.013179	32.982692
90	-30	0.023605	0.001284	0.000254	35.267014
90	-15	0.020320	0.004306	0.000055	34.232205
90	0	0.015451	0.008155	0.001317	33.328315
90	15	0.009972	0.011722	0.003803	32.857694
90	30	0.004622	0.014440	0.007229	32.893359
105	-30	0.021335	0.002881	0.002455	35.322519
105	-15	0.017849	0.007320	0.000683	34.388072
105	0	0.012940	0.012029	-0.000040	33.405118
105	15	0.007917	0.016108	0.000436	32.916435
105	30	0.003311	0.018753	0.002472	32.829955
120	-30	0.017625	0.004294	0.006510	35.191051
120	-15	0.013828	0.009469	0.003970	34.281247
120	0	0.009263	0.014729	0.001672	33.468480
120	15	0.004931	0.019109	0.000193	33.066554
120	30	0.001563	0.021796	0.000094	33.008786
135	-30	0.012944	0.004828	0.012050	34.943966
135	-15	0.009042	0.010228	0.009328	34.090590
135	0	0.005215	0.015542	0.005942	33.415157
135	15	0.002066	0.020227	0.002698	33.300949
135	30	0.000204	0.023026	0.000541	33.382742
150	-30	0.007905	0.004147	0.017649	34.239767
150	-15	0.004514	0.009321	0.014974	33.637053
150	0	0.001775	0.014742	0.011102	33.441623
150	15	0.000191	0.019422	0.006631	33.536189
150	30	0.000040	0.022581	0.002455	33.837474

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.003642	0.002813	0.023223	34.208569
165	-15	0.001224	0.007176	0.020415	33.546108
165	0	0.000075	0.012113	0.015838	33.273895
165	15	0.000195	0.016663	0.010327	33.437510
165	30	0.001285	0.019862	0.004996	33.701597
180	-30	0.000768	0.001193	0.027123	34.181931
180	-15	-0.000003	0.004231	0.024233	33.496439
180	0	0.000598	0.008282	0.019343	33.174050
180	15	0.002208	0.012527	0.013124	33.251893
180	30	0.004141	0.015986	0.006902	33.532806

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Isotropy curves:



校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

2.6 Calibration Frequency: 2450.00MHz

2.6.1 Calibration basic information

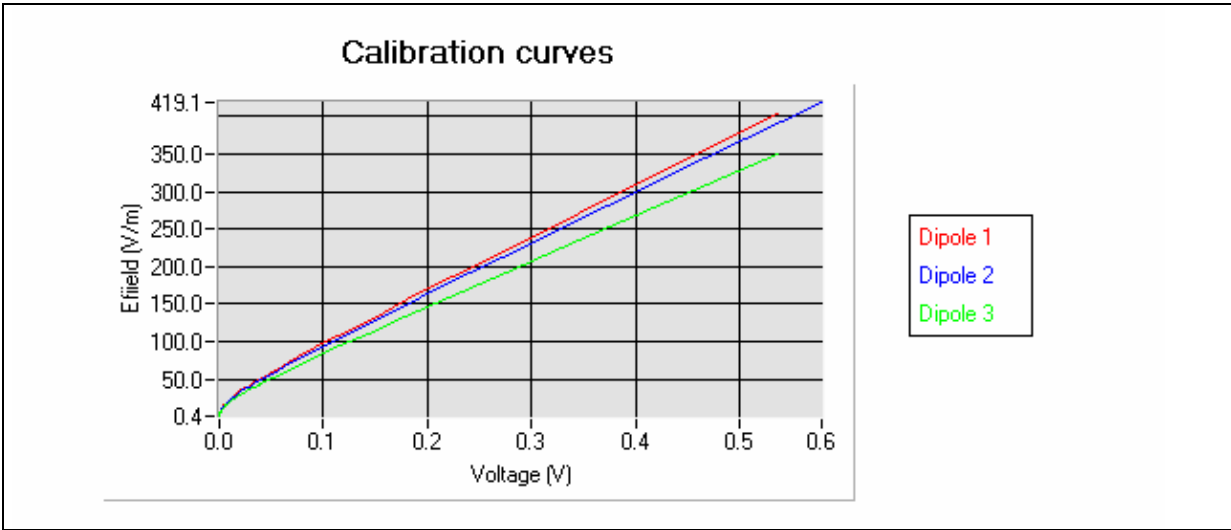
S/N	Calibration
1	Epsilon: 39.23
2	Sigma: 1.83 S/m
3	Temperature: 21°C
4	Cable loss: 0.20dB
5	Coupler loss: 20.01dB
6	Waveguide Return Loss: -12.59dB

2.6.2 Calibration parameters

2.6.2.1 Sensitivity (Low limit detection): 0.80V/m（1.18mW/Kg）

2.6.2.2 Linearity: 0.07dB

Calibration curves of linearization:
Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:
 $E=(e_1*e_1+e_2*e_2+e_3*e_3)^{pow(1/2)}$



Remark: Dipole 1: calibration curves of the dipole 1;
Dipole 2: calibration curves of the dipole 2;
Dipole 3: calibration curves of the dipole 3

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Calibration data of linearization (including probe Factor)

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.536024	404.406692	0.579000	419.075553	0.537398	351.029980
0.432323	331.979698	0.467352	343.855895	0.429847	285.866552
0.345701	271.363179	0.373308	280.389939	0.346051	235.000820
0.276785	222.999346	0.299572	230.505223	0.274806	191.634161
0.224159	185.919684	0.241620	191.161308	0.221217	158.883920
0.180507	154.992715	0.193833	158.557274	0.178218	132.462229
0.144406	129.216106	0.154570	131.578560	0.143479	110.954806
0.114682	107.757207	0.123691	110.151703	0.116602	94.148472
0.092255	91.327938	0.098384	92.354774	0.093932	79.784778
0.074940	78.413181	0.079227	78.646250	0.075438	67.858993
0.060032	67.034093	0.063270	66.971980	0.060216	57.814844
0.047734	57.360828	0.050594	57.432026	0.038889	43.295122
0.030552	43.295122	0.032521	43.295122	0.038845	43.195546
0.030485	43.195546	0.032508	43.195546	0.038613	42.997080
0.030400	42.947607	0.032326	42.997080	0.038052	42.504897
0.029964	42.504897	0.031838	42.504897	0.036458	41.203961
0.028620	41.203961	0.030480	41.251426	0.034351	39.622235
0.026895	39.576644	0.028629	39.622235	0.031646	37.621747
0.024649	37.578459	0.026304	37.621747	0.028544	35.313354
0.022110	35.313354	0.023622	35.313354	0.024994	32.654194
0.019289	32.654194	0.020620	32.654194	0.021093	29.575968
0.016159	29.575968	0.017335	29.610038	0.017395	26.481280
0.013274	26.511784	0.014222	26.511784	0.014175	23.628653
0.010743	23.655872	0.011562	23.628653	0.011483	21.034828
0.008656	21.059059	0.009319	21.034828	0.009232	18.725739
0.006932	18.747310	0.007489	18.747310	0.007456	16.689332
0.005565	16.689332	0.006004	16.689332	0.005911	14.823097
0.004392	14.823097	0.004759	14.823097	0.004739	13.195898
0.003505	13.168840	0.003801	13.195898	0.003773	11.747325
0.002770	11.738484	0.003023	11.747325	0.003010	10.421710
0.002179	10.447274	0.002380	10.433715	0.002302	9.213804
0.001693	9.251406	0.001853	9.213804	0.001811	8.124714
0.001310	8.186821	0.001416	8.096235	0.001391	7.152976
0.000999	7.207600	0.001110	7.209539	0.001091	6.368739
0.000755	6.334234	0.000849	6.356233	0.000839	5.626125
0.000588	5.659313	0.000661	5.662474	0.000671	5.070988
0.000441	4.990246	0.000508	5.027706	0.000505	4.455025
0.000360	4.579998	0.000386	4.457235	0.000400	4.016935
0.000260	4.016125	0.000291	3.956457	0.000303	3.564697
0.000211	3.708662	0.000211	3.479286	0.000241	3.242765
0.000131	3.142686	0.000158	3.123267	0.000168	2.816942

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

$v_1(V)$	$e_1(V/m)$	$v_2(V)$	$e_2(V/m)$	$v_3(V)$	$e_3(V/m)$
0.000075	2.676208	0.000115	2.801372	0.000111	2.433179
0.000027	2.198970	0.000079	2.500206	0.000077	2.172222
-0.000000	1.875889	0.000055	2.277409	0.000058	2.011702
-0.000019	1.613334	0.000037	2.094819	0.000039	1.837211
-0.000033	1.381240	0.000014	1.835260	0.000009	1.521487
-0.000043	1.196000	-0.000003	1.616850	-0.000009	1.294828
-0.000052	1.014919	-0.000018	1.396279	-0.000022	1.109691
-0.000057	0.877395	-0.000030	1.196575	-0.000031	0.946189
-0.000061	0.756284	-0.000039	1.018407	-0.000038	0.816802
-0.000064	0.648237	-0.000045	0.878850	-0.000043	0.700510
-0.000066	0.551246	-0.000049	0.761031	-0.000046	0.594630
-0.000068	0.471899	-0.000052	0.658638	-0.000049	0.506476
		-0.000055	0.559418	-0.000051	0.435178
		-0.000057	0.480748		

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

- 2.6.2.3 Isotropy
- Axial isotropy: 0.14dB
 - Hemispherical isotropy: 0.22 dB

Calibration data of isotropy

Axial (°)	Hemispherical (°)	V ₁ (V)	V ₂ (V)	V ₃ (V)	E (V/m)
-180	-30	0.000703	0.001136	0.025625	34.466764
-180	-15	-0.000095	0.003995	0.022632	33.633987
-180	0	0.000530	0.007656	0.017712	33.224180
-180	15	0.001939	0.011501	0.011799	33.279299
-180	30	0.003504	0.014853	0.006046	33.682500
-165	-30	-0.000069	0.000107	0.027479	34.626931
-165	-15	0.000910	0.001393	0.024101	33.655140
-165	0	0.002962	0.003931	0.018856	33.079434
-165	15	0.005154	0.007249	0.012766	33.048870
-165	30	0.007007	0.010520	0.006708	33.275497
-150	-30	0.000669	0.000130	0.027063	34.845517
-150	-15	0.003180	0.000016	0.023388	33.848498
-150	0	0.006290	0.001007	0.018005	33.044090
-150	15	0.009268	0.003109	0.011790	32.755374
-150	30	0.011256	0.005942	0.005955	32.924831
-135	-30	0.002044	0.001742	0.024537	34.999980
-135	-15	0.005730	0.000465	0.020408	33.931561
-135	0	0.009719	-0.000101	0.014937	33.042470
-135	15	0.013070	0.000576	0.009281	32.732982
-135	30	0.015180	0.002307	0.004258	32.791446
-120	-30	0.003266	0.004947	0.020140	34.896629
-120	-15	0.007738	0.002912	0.015663	33.885693
-120	0	0.012305	0.001015	0.010427	33.041631
-120	15	0.015992	0.000068	0.005592	32.814550
-120	30	0.018268	0.000230	0.001938	32.943666
-105	-30	0.003873	0.009274	0.014536	34.721693
-105	-15	0.008690	0.006777	0.009931	33.745449
-105	0	0.013418	0.004022	0.005481	33.129564
-105	15	0.017220	0.001672	0.002179	33.076530
-105	30	0.019684	0.000170	0.000292	33.367002
-90	-30	0.003521	0.014370	0.008314	34.601082
-90	-15	0.008162	0.011574	0.004375	33.689870
-90	0	0.012890	0.008088	0.001490	33.386745
-90	15	0.016738	0.004482	0.000196	33.520755
-90	30	0.019442	0.001547	0.000153	33.973434

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
-75	-30	0.002426	0.018936	0.003171	34.670935
-75	-15	0.006481	0.015972	0.000665	33.914427
-75	0	0.010760	0.011798	-0.000044	33.636480
-75	15	0.014698	0.007324	0.000585	33.923996
-75	30	0.017597	0.003297	0.001873	34.334838
-60	-30	0.001079	0.022281	0.000262	35.092125
-60	-15	0.003955	0.019136	0.000064	34.335163
-60	0	0.007622	0.014443	0.001380	33.946340
-60	15	0.011461	0.009288	0.003212	33.992101
-60	30	0.014682	0.004598	0.005170	34.443291
-45	-30	0.000045	0.023950	0.000222	35.812369
-45	-15	0.001470	0.020412	0.002238	34.793284
-45	0	0.004058	0.015616	0.005165	34.207083
-45	15	0.007399	0.010123	0.007977	34.008690
-45	30	0.010742	0.004982	0.010023	34.219673
-30	-30	0.000136	0.023382	0.001894	36.210984
-30	-15	0.000081	0.019798	0.005641	35.118743
-30	0	0.001193	0.014893	0.009844	34.269612
-30	15	0.003491	0.009470	0.013402	33.855353
-30	30	0.006430	0.004514	0.015557	33.895880
-15	-30	0.001524	0.021287	0.004217	36.557131
-15	-15	0.000333	0.017291	0.009293	35.309961
-15	0	-0.000080	0.012502	0.014467	34.326584
-15	15	0.000791	0.007378	0.018338	33.633417
-15	30	0.002749	0.003156	0.020618	33.644618
0	-30	0.004483	0.017479	0.005828	36.401198
0	-15	0.002479	0.013363	0.011793	35.110616
0	0	0.000779	0.008785	0.017613	34.161257
0	15	-0.000017	0.004540	0.022035	33.627433
0	30	0.000426	0.001398	0.024380	33.522664
15	-30	0.008572	0.012747	0.006472	36.051189
15	-15	0.006181	0.008571	0.012764	34.788342
15	0	0.003507	0.004680	0.018799	33.972309
15	15	0.001191	0.001785	0.023500	33.666464
15	30	0.000004	0.000235	0.026059	33.702068
30	-30	0.013382	0.007609	0.005593	35.677860
30	-15	0.010731	0.004033	0.011691	34.561768
30	0	0.007228	0.001471	0.017744	33.928305
30	15	0.003736	0.000150	0.022501	33.705382
30	30	0.000963	0.000112	0.025538	33.924687

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
45	-30	0.017943	0.003012	0.003804	35.470559
45	-15	0.015124	0.000736	0.008916	34.400596
45	0	0.010997	-0.000044	0.014447	33.820682
45	15	0.006547	0.000242	0.019380	33.697112
45	30	0.002560	0.001486	0.022934	34.036713
60	-30	0.021207	0.000375	0.001650	35.596080
60	-15	0.018185	-0.000023	0.005269	34.530495
60	0	0.013774	0.000824	0.009817	33.823908
60	15	0.008677	0.002485	0.014526	33.631357
60	30	0.003860	0.004437	0.018566	33.899982
75	-30	0.022674	0.000077	0.000145	36.001228
75	-15	0.019512	0.001457	0.001813	34.834320
75	0	0.014869	0.003817	0.004873	33.903912
75	15	0.009511	0.006407	0.008910	33.524057
75	30	0.004437	0.008530	0.012974	33.596718
90	-30	0.022236	0.001159	0.000265	36.337129
90	-15	0.018872	0.004064	-0.000065	35.014328
90	0	0.014124	0.007635	0.001207	33.976373
90	15	0.008926	0.010824	0.003704	33.341635
90	30	0.004101	0.013047	0.007071	33.228942
105	-30	0.020223	0.002733	0.002173	36.451523
105	-15	0.016553	0.006826	0.000541	35.167462
105	0	0.011846	0.011241	-0.000017	34.092914
105	15	0.007034	0.014858	0.000569	33.398806
105	30	0.002907	0.017226	0.002473	33.238967
120	-30	0.016826	0.004105	0.005951	36.375372
120	-15	0.012881	0.008809	0.003660	35.057517
120	0	0.008486	0.013575	0.001494	33.981649
120	15	0.004427	0.017622	0.000163	33.491252
120	30	0.001398	0.020142	0.000063	33.359972
135	-30	0.012485	0.004501	0.011052	35.881417
135	-15	0.008512	0.009454	0.008535	34.724663
135	0	0.004778	0.014525	0.005310	33.955196
135	15	0.001856	0.018664	0.002295	33.599657
135	30	0.000235	0.021302	0.000345	33.692274
150	-30	0.007801	0.003886	0.016688	35.255178
150	-15	0.004212	0.008761	0.014183	34.381659
150	0	0.001615	0.013625	0.010297	33.814092
150	15	0.000203	0.017893	0.005967	33.803799
150	30	-0.000017	0.020749	0.002184	34.008464

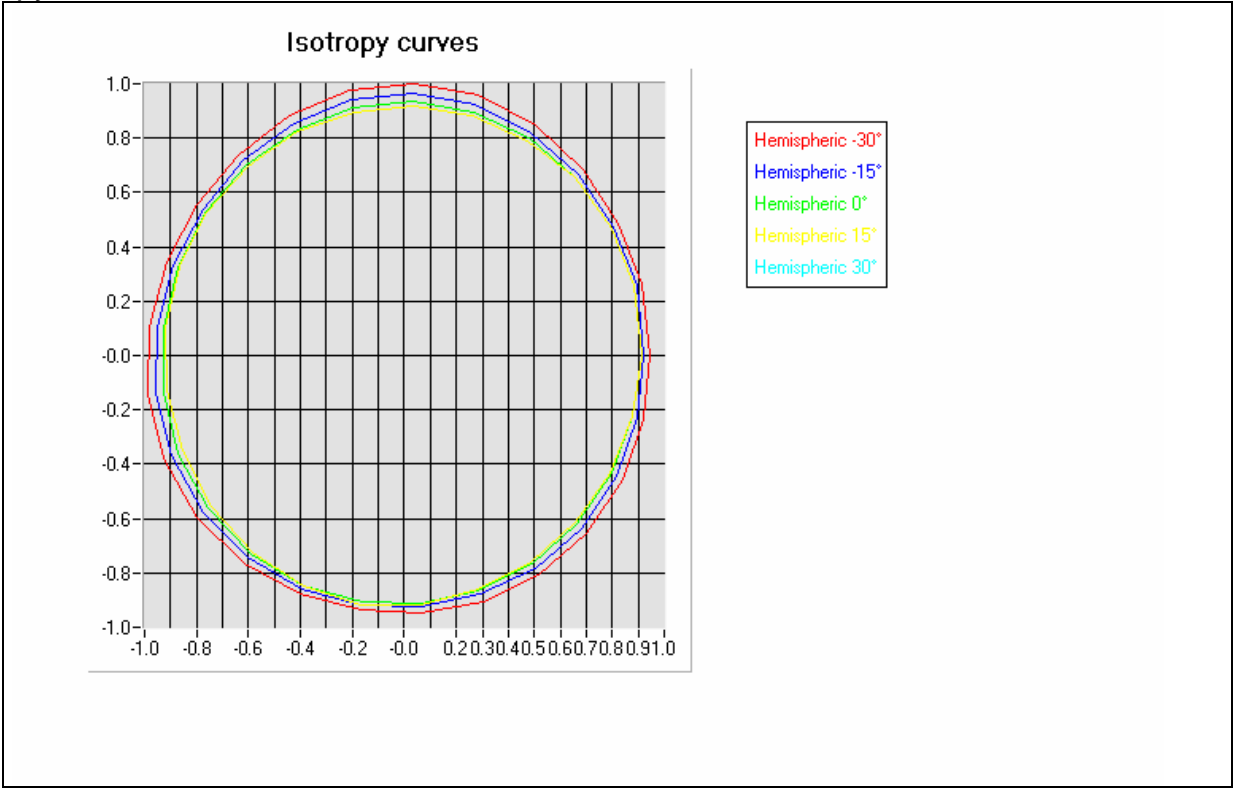
校准结果/说明（续页）：

Results of calibration and additional explanation（continued page）

Axial（°）	Hemispherical（°）	V ₁ （V）	V ₂ （V）	V ₃ （V）	E（V/m）
165	-30	0.003469	0.002698	0.021997	34.811778
165	-15	0.001126	0.006733	0.019263	34.024222
165	0	-0.000007	0.011336	0.014800	33.674916
165	15	0.000145	0.015384	0.009487	33.713408
165	30	0.001128	0.018455	0.004409	34.038084
180	-30	0.000758	0.001100	0.025886	34.671428
180	-15	-0.000091	0.004028	0.022953	33.888041
180	0	0.000557	0.007697	0.017929	33.419131
180	15	0.001920	0.011671	0.011934	33.482205
180	30	0.003481	0.015120	0.006148	33.934624

校准结果/说明（续页）：
Results of calibration and additional explanation（continued page）

Isotropy curves:



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Attachment 1

名称/型号 Name/Model	编号 Number	证书编号/有效期限 Certificate No./Due date	测量范围/准确度等级或 最大允差或不确定度 Measurement range/accuracy class or maximum permissible errors or uncertainty of measurement
6 axis Robot KR3	容-027-01	/	6 axes, Repeatability: ± 0.05 mm, Nominal payload: 3 kg
Vector Network Analyzer ZVB 8	容-027-27	2007F31-10-001767 2008.06.27	300 kHz \sim 8 GHz, Frequency resolution: 100 μ Hz, Measurement time: < 8 ms, Measurement bandwidths: 1 Hz \sim 500 kHz / uncertainty: +10 dB \sim +3 dB : 0.6 dB ; +3 dB \sim -15 dB : 0.4 dB; -15 dB \sim -25 dB : 1 dB; -25 dB \sim -35 dB : 3 dB
Signal Generator SMT 06	容-027-15	2007F33-10-000835 2008.06.27	5 kHz \sim 6 GHz, Resolution: 0.1 Hz, -144 dBm \sim +13 dBm, Max. RF power: 1 W, Max. DC voltage: 0 V / Level > -127 dBm: f < 1.5 GHz: < 1 dB; f > 1.5 GHz: < 1.5 dB; f > 3 GHz: < 2 dB
Power Meter NRVD	容-027-16	2007F31-10-001764 2008.06.25	100 kHz \sim 6 GHz, 10 nW \sim 500 mW
Millivoltmeter 2000	容-027-26	2007F11-10-001031 2008.06.19	Fastest System rate: 4.5 m s Resistance range: 100.0000 Ω \sim 100.000 M Ω Measurement Sensibility: 100 μ Ω \sim 100 Ω Voltage range: 100.0000 mV \sim 1000.000 V Measurement Sensibility : 0.1 μ V \sim 1 m V
Isotropic E-Field Probe E-FIELD PROBE	容-027-02	2008.02.19	Dipole resistance (in the connector plane): 1 M Ω to 2 M Ω Axial isotropy in human-equivalent liquids: < 0.25 dB Hemispherical Isotropy in humanequivalent liquids < 0.5 dB, Linearity < 0.5 dB, Lower SAR detection threshold: 0.0015 Watts/kg
Solid State Power Amplifier BLMA 0820-6	容-027-18	2007F33-10-000838 2008.06.27	0.8 GHz \sim 2 GHz; Output: 6 W; Gain: min 37.8 / typ 40, ± 2 dB; Harmonics: 2nd: 20 dBc, 3rd: 20 dBc; Line power: 125 W.

Directional Coupler CPL-5220-20-SMA-79	容-027-31	2008.06.25	0.5 GHz ~ 2.0 GHz
Waveguide 069Y7-15892-714/0 69Y7-628415-724	容-027-39	2007F31-10-001763 2008.06.24	800 MHz ~ 950 MHz

以上计量标准器具的量值溯源至国家基准。
Quantity values of above measurement standards used in this calibration are traced to those of the national primary standards in the P.R. China.

Attachment 2: Photograph

