

Kalibrierstelle für Antennen und Feldsonden
Calibration Body for Antennas and Field Probes

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AKKREDITIERUNG AUSTRIA



Kalibrierschein nach ISO/IEC 17025
Calibration Certificate according to ISO/IEC 17025

Kalibrierzeichen
Calibration mark

EH-A1208/26
0612
02.06.2026

Gegenstand <i>Object</i>	Log.-Periodical Antenna
Hersteller & Typ <i>Manufacturer & Type</i>	TEKBOX TBMA11
Herstellernummer <i>Serial number</i>	TBMA11260003
Auftraggeber <i>Customer</i>	TekBox Digital Solutions Vietnam Co. Ltd. Saigon Hi-Tech Park, Factory 4, 5F, Lot I-3B-1, N6 Str., Tan Phu Ward, D 9 70000 Ho Chi Minh Vietnam
Auftragsnummer <i>Order Nr.</i>	L.L7.00059.0.0-A-13675_11 Ext. Order No.: P03699
Anzahl der Seiten des Kalibrierscheines <i>Number of pages of the certificate</i>	1 - 13
Datum und Ort der Kalibrierung <i>Date and place of calibration</i>	02.06.2026 Seibersdorf

Akkreditierung Austria ist Vollmitglied bei der International Laboratory Accreditation Cooperation ILAC und Unterzeichner der MRAs für die Bereiche „Testing, Calibration and Inspection“.

Die Kalibrierung erfolgt auf der gesetzlichen Grundlage des Akkreditierungsgesetzes in gültiger Fassung entsprechend den Anforderungen der ÖVE/ÖNORM EN ISO/IEC 17025.

Dieser Kalibrierschein dokumentiert die Rückführbarkeit auf nationale Normale zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).

Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

Akkreditierung Austria is a full member of the International Laboratory Accreditation Cooperation ILAC and a signatory of the MRA for "Testing, Calibration and Inspection".

The calibration is performed in accordance with the Akkreditierungsgesetz in the amended version and the requirements of ÖVE/ÖNORM EN ISO/IEC 17025.

This calibration certificate documents the traceability to national standards, which realize the physical units or measurements according to the International System of Units (SI).

The user is obliged to have the object recalibrated at appropriate intervals.

Dieser Kalibrierschein gilt ausschließlich für den kalibrierten Gegenstand und darf nur vollständig und unverändert weiterverarbeitet werden. Auszüge oder Änderungen sind unzulässig. Kalibrierscheine ohne Unterschrift haben keine Gültigkeit.

This calibration certificate is valid only for the calibrated object and may not be reproduced other than in full. Calibration certificates without signature are not valid.

Datum <i>Date</i>	Zeichnungsberechtigter <i>Authorized person</i>	Bearbeiter <i>Person responsible</i>
02.06.2026	<hr/> Patrick Preiner	<hr/> Markus Vaclav

Calibration Procedure

Calibration of the **antenna factor** is carried out according to the 3-Antenna Method also known as Standard-Site Method (SSM) described in internal process guideline LE-EH-VA-A01 (2023-12). The calibration fulfils the requirements given in ANSI C63.5, ANSI C63.4 and CISPR 16-1-6, CISPR 16-1-4. The distance between the antennas is measured from the feedpoint (dipole like antenna) or reference point (log periodic or hybrid antenna).

Calibration of the **voltage reflection coefficient** (VRC) is carried out according to the method described in internal process guideline LE-EH-VA-L02 (2025-11) using a network analyser. Results are shown as voltage standing wave ration (VSWR) calculated from the voltage reflection coefficient as following:

$$VSWR = \frac{1 + VRC}{1 - VRC}$$

Test Equipment

Type	Identification
Antenna Mast Maturo	LE0597
Network Analyzer R&S ZVA8	E0156
Hybrid Antenna Schwarzbeck VULB 9163	E1611
Hybrid Antenna Schwarzbeck VULB 9163	E1612
Open Area Test Site	E1010
Network Analyzer Keysight N5244B	E0190
Double Ridged Horn EMCO 3115	E0540
Double Ridged Horn EMCO 3115	E0599
Fully Anechoic Chamber	LE0128
Network Analyzer Keysight E5080B	LE0406
NWA Calibration Kit	E0117
CalStan 11	E0921

Environmental Conditions

Site Temperature	20°C - 27°C
Site Humidity	30% - 80%
Control Temperature	20°C - 27°C
Control Humidity	30% - 80%

Results

Type	Description	Fig./Table
Antenna Factor	130MHz-1000MHz, d=10m (referencepoint)	1
Antenna Factor	1000MHz-6000MHz, d=3m (referencepoint)	2
VSWR	130MHz-6000MHz	3

Uncertainty

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EAL Publication EA 4/02.

References

- [1] CISPR 16-1-6:2014+AMD1:2017+AMD2:2022 CSV, Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-6: Radio disturbance and immunity measuring apparatus - EMC antenna calibration
- [2] CISPR 16-1-4:2025 Ed. 5. Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements. 2025-10
- [3] ANSI C63.5-2017/Cor 1-2019 American National Standard for Electromagnetic Compatibility--Radiated Emission Measurements in Electromagnetic Interference (EMI) Control - Calibration and Qualification of Antennas (9 kHz to 40 GHz) – Corrigendum 1
- [4] ANSI C63.4-2014/ANSI C63.4a-2017 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
- [5] EA-4/02 M: 2022 Evaluation of the Uncertainty of Measurement in calibration

Figure 1: Antenna Factor; 130MHz-1000MHz, d=10m (referencepoint)

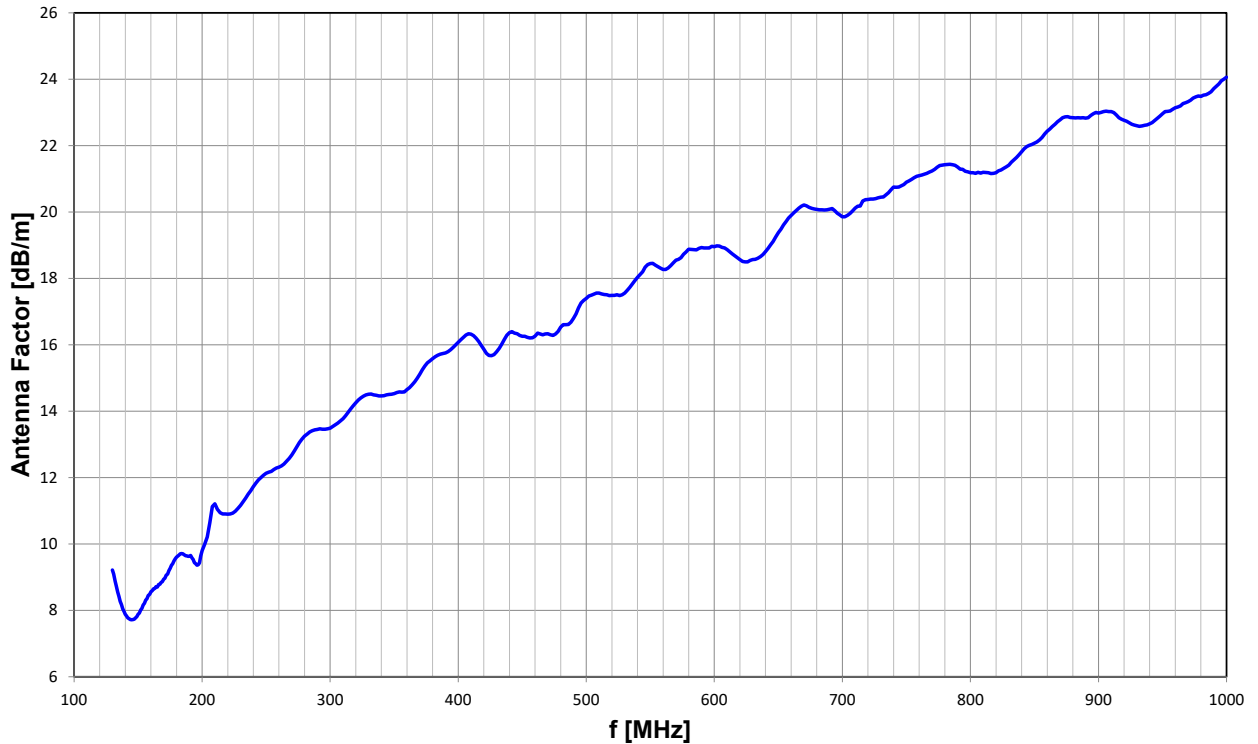


Table 1: Antenna Factor; 130MHz-1000MHz, d=10m (referencepoint)

f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]
130	9.21	±1.00	160	8.56	±1.00	190	9.63	±1.00
131	9.09	±1.00	161	8.59	±1.00	191	9.65	±1.00
132	8.88	±1.00	162	8.65	±1.00	192	9.58	±1.00
133	8.72	±1.00	163	8.66	±1.00	193	9.53	±1.00
134	8.56	±1.00	164	8.71	±1.00	194	9.44	±1.00
135	8.42	±1.00	165	8.70	±1.00	195	9.40	±1.00
136	8.27	±1.00	166	8.78	±1.00	196	9.36	±1.00
137	8.17	±1.00	167	8.78	±1.00	197	9.37	±1.00
138	8.04	±1.00	168	8.84	±1.00	198	9.43	±1.00
139	7.97	±1.00	169	8.87	±1.00	199	9.64	±1.00
140	7.88	±1.00	170	8.93	±1.00	200	9.80	±1.00
141	7.83	±1.00	171	8.97	±1.00	202	9.99	±1.00
142	7.77	±1.00	172	9.05	±1.00	204	10.21	±1.00
143	7.75	±1.00	173	9.09	±1.00	206	10.64	±1.00
144	7.72	±1.00	174	9.19	±1.00	208	11.13	±1.00
145	7.71	±1.00	175	9.26	±1.00	210	11.21	±1.00
146	7.72	±1.00	176	9.35	±1.00	212	11.04	±1.00
147	7.73	±1.00	177	9.40	±1.00	214	10.94	±1.00
148	7.77	±1.00	178	9.49	±1.00	216	10.90	±1.00
149	7.81	±1.00	179	9.55	±1.00	218	10.90	±1.00
150	7.88	±1.00	180	9.60	±1.00	220	10.89	±1.00
151	7.92	±1.00	181	9.63	±1.00	222	10.90	±1.00
152	8.01	±1.00	182	9.67	±1.00	224	10.93	±1.00
153	8.06	±1.00	183	9.70	±1.00	226	10.98	±1.00
154	8.16	±1.00	184	9.71	±1.00	228	11.07	±1.00
155	8.21	±1.00	185	9.70	±1.00	230	11.16	±1.00
156	8.30	±1.00	186	9.67	±1.00	232	11.27	±1.00
157	8.35	±1.00	187	9.65	±1.00	234	11.38	±1.00
158	8.44	±1.00	188	9.64	±1.00	236	11.50	±1.00
159	8.48	±1.00	189	9.63	±1.00	238	11.60	±1.00

f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]
240	11.72	±1.00	370	15.11	±1.00	500	17.40	±1.00
242	11.83	±1.00	372	15.25	±1.00	502	17.47	±1.00
244	11.93	±1.00	374	15.36	±1.00	504	17.49	±1.00
246	12.00	±1.00	376	15.45	±1.00	506	17.53	±1.00
248	12.07	±1.00	378	15.52	±1.00	508	17.56	±1.00
250	12.13	±1.00	380	15.58	±1.00	510	17.56	±1.00
252	12.16	±1.00	382	15.64	±1.00	512	17.53	±1.00
254	12.19	±1.00	384	15.68	±1.00	514	17.51	±1.00
256	12.24	±1.00	386	15.71	±1.00	516	17.51	±1.00
258	12.29	±1.00	388	15.73	±1.00	518	17.48	±1.00
260	12.31	±1.00	390	15.76	±1.00	520	17.48	±1.00
262	12.35	±1.00	392	15.79	±1.00	522	17.48	±1.00
264	12.41	±1.00	394	15.85	±1.00	524	17.50	±1.00
266	12.49	±1.00	396	15.92	±1.00	526	17.48	±1.00
268	12.58	±1.00	398	16.00	±1.00	528	17.50	±1.00
270	12.68	±1.00	400	16.07	±1.00	530	17.56	±1.00
272	12.80	±1.00	402	16.15	±1.00	532	17.64	±1.00
274	12.93	±1.00	404	16.22	±1.00	534	17.73	±1.00
276	13.06	±1.00	406	16.29	±1.00	536	17.83	±1.00
278	13.16	±1.00	408	16.33	±1.00	538	17.93	±1.00
280	13.25	±1.00	410	16.32	±1.00	540	18.03	±1.00
282	13.31	±1.00	412	16.28	±1.00	542	18.11	±1.00
284	13.37	±1.00	414	16.20	±1.00	544	18.20	±1.00
286	13.41	±1.00	416	16.11	±1.00	546	18.34	±1.00
288	13.44	±1.00	418	15.98	±1.00	548	18.41	±1.00
290	13.45	±1.00	420	15.86	±1.00	550	18.44	±1.00
292	13.46	±1.00	422	15.74	±1.00	552	18.45	±1.00
294	13.46	±1.00	424	15.68	±1.00	554	18.40	±1.00
296	13.46	±1.00	426	15.67	±1.00	556	18.35	±1.00
298	13.47	±1.00	428	15.70	±1.00	558	18.31	±1.00
300	13.49	±1.00	430	15.78	±1.00	560	18.27	±1.00
302	13.54	±1.00	432	15.89	±1.00	562	18.26	±1.00
304	13.59	±1.00	434	16.02	±1.00	564	18.31	±1.00
306	13.64	±1.00	436	16.16	±1.00	566	18.38	±1.00
308	13.70	±1.00	438	16.28	±1.00	568	18.47	±1.00
310	13.77	±1.00	440	16.36	±1.00	570	18.54	±1.00
312	13.86	±1.00	442	16.40	±1.00	572	18.57	±1.00
314	13.96	±1.00	444	16.35	±1.00	574	18.62	±1.00
316	14.06	±1.00	446	16.33	±1.00	576	18.72	±1.00
318	14.16	±1.00	448	16.28	±1.00	578	18.80	±1.00
320	14.25	±1.00	450	16.26	±1.00	580	18.88	±1.00
322	14.34	±1.00	452	16.26	±1.00	582	18.87	±1.00
324	14.40	±1.00	454	16.22	±1.00	584	18.86	±1.00
326	14.45	±1.00	456	16.20	±1.00	586	18.86	±1.00
328	14.49	±1.00	458	16.21	±1.00	588	18.90	±1.00
330	14.51	±1.00	460	16.26	±1.00	590	18.93	±1.00
332	14.51	±1.00	462	16.35	±1.00	592	18.91	±1.00
334	14.49	±1.00	464	16.32	±1.00	594	18.91	±1.00
336	14.48	±1.00	466	16.30	±1.00	596	18.92	±1.00
338	14.45	±1.00	468	16.33	±1.00	598	18.96	±1.00
340	14.45	±1.00	470	16.33	±1.00	600	18.96	±1.00
342	14.46	±1.00	472	16.30	±1.00	602	18.98	±1.00
344	14.49	±1.00	474	16.28	±1.00	604	18.97	±1.00
346	14.50	±1.00	476	16.32	±1.00	606	18.93	±1.00
348	14.51	±1.00	478	16.40	±1.00	608	18.91	±1.00
350	14.53	±1.00	480	16.53	±1.00	610	18.86	±1.00
352	14.56	±1.00	482	16.60	±1.00	612	18.80	±1.00
354	14.58	±1.00	484	16.60	±1.00	614	18.74	±1.00
356	14.57	±1.00	486	16.61	±1.00	616	18.68	±1.00
358	14.58	±1.00	488	16.68	±1.00	618	18.63	±1.00
360	14.65	±1.00	490	16.79	±1.00	620	18.57	±1.00
362	14.71	±1.00	492	16.93	±1.00	622	18.51	±1.00
364	14.79	±1.00	494	17.11	±1.00	624	18.49	±1.00
366	14.88	±1.00	496	17.26	±1.00	626	18.50	±1.00
368	14.99	±1.00	498	17.34	±1.00	628	18.54	±1.00

f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]
630	18.56	±1.00	754	20.98	±1.00	878	22.84	±1.00
632	18.57	±1.00	756	21.03	±1.00	880	22.84	±1.00
634	18.61	±1.00	758	21.07	±1.00	882	22.83	±1.00
636	18.66	±1.00	760	21.09	±1.00	884	22.84	±1.00
638	18.72	±1.00	762	21.11	±1.00	886	22.83	±1.00
640	18.81	±1.00	764	21.14	±1.00	888	22.84	±1.00
642	18.91	±1.00	766	21.16	±1.00	890	22.83	±1.00
644	19.01	±1.00	768	21.20	±1.00	892	22.84	±1.00
646	19.11	±1.00	770	21.23	±1.00	894	22.91	±1.00
648	19.24	±1.00	772	21.28	±1.00	896	22.96	±1.00
650	19.38	±1.00	774	21.34	±1.00	898	23.00	±1.00
652	19.48	±1.00	776	21.40	±1.00	900	22.98	±1.00
654	19.61	±1.00	778	21.41	±1.00	902	23.00	±1.00
656	19.71	±1.00	780	21.42	±1.00	904	23.02	±1.00
658	19.81	±1.00	782	21.43	±1.00	906	23.03	±1.00
660	19.89	±1.00	784	21.44	±1.00	908	23.02	±1.00
662	19.98	±1.00	786	21.42	±1.00	910	23.02	±1.00
664	20.05	±1.00	788	21.40	±1.00	912	22.99	±1.00
666	20.11	±1.00	790	21.36	±1.00	914	22.92	±1.00
668	20.17	±1.00	792	21.29	±1.00	916	22.84	±1.00
670	20.21	±1.00	794	21.28	±1.00	918	22.79	±1.00
672	20.18	±1.00	796	21.22	±1.00	920	22.76	±1.00
674	20.14	±1.00	798	21.21	±1.00	922	22.73	±1.00
676	20.11	±1.00	800	21.18	±1.00	924	22.69	±1.00
678	20.09	±1.00	802	21.18	±1.00	926	22.64	±1.00
680	20.07	±1.00	804	21.16	±1.00	928	22.62	±1.00
682	20.06	±1.00	806	21.19	±1.00	930	22.60	±1.00
684	20.06	±1.00	808	21.17	±1.00	932	22.58	±1.00
686	20.06	±1.00	810	21.19	±1.00	934	22.59	±1.00
688	20.06	±1.00	812	21.19	±1.00	936	22.61	±1.00
690	20.09	±1.00	814	21.18	±1.00	938	22.62	±1.00
692	20.10	±1.00	816	21.15	±1.00	940	22.65	±1.00
694	20.04	±1.00	818	21.16	±1.00	942	22.69	±1.00
696	19.96	±1.00	820	21.18	±1.00	944	22.75	±1.00
698	19.91	±1.00	822	21.24	±1.00	946	22.82	±1.00
700	19.86	±1.00	824	21.27	±1.00	948	22.89	±1.00
702	19.86	±1.00	826	21.32	±1.00	950	22.96	±1.00
704	19.90	±1.00	828	21.36	±1.00	952	23.02	±1.00
706	19.96	±1.00	830	21.41	±1.00	954	23.03	±1.00
708	20.03	±1.00	832	21.50	±1.00	956	23.04	±1.00
710	20.12	±1.00	834	21.57	±1.00	958	23.09	±1.00
712	20.17	±1.00	836	21.64	±1.00	960	23.14	±1.00
714	20.18	±1.00	838	21.72	±1.00	962	23.16	±1.00
716	20.33	±1.00	840	21.81	±1.00	964	23.20	±1.00
718	20.37	±1.00	842	21.91	±1.00	966	23.26	±1.00
720	20.37	±1.00	844	21.97	±1.00	968	23.29	±1.00
722	20.39	±1.00	846	22.01	±1.00	970	23.32	±1.00
724	20.39	±1.00	848	22.03	±1.00	972	23.37	±1.00
726	20.40	±1.00	850	22.07	±1.00	974	23.43	±1.00
728	20.42	±1.00	852	22.11	±1.00	976	23.47	±1.00
730	20.45	±1.00	854	22.17	±1.00	978	23.49	±1.00
732	20.45	±1.00	856	22.25	±1.00	980	23.48	±1.00
734	20.52	±1.00	858	22.35	±1.00	982	23.52	±1.00
736	20.58	±1.00	860	22.43	±1.00	984	23.53	±1.00
738	20.67	±1.00	862	22.49	±1.00	986	23.57	±1.00
740	20.75	±1.00	864	22.57	±1.00	988	23.62	±1.00
742	20.75	±1.00	866	22.64	±1.00	990	23.71	±1.00
744	20.75	±1.00	868	22.72	±1.00	992	23.79	±1.00
746	20.79	±1.00	870	22.78	±1.00	994	23.86	±1.00
748	20.83	±1.00	872	22.84	±1.00	996	23.95	±1.00
750	20.89	±1.00	874	22.86	±1.00	998	24.00	±1.00
752	20.93	±1.00	876	22.87	±1.00	1 000	24.06	±1.00

Figure 2: Antenna Factor; 1000MHz-6000MHz, d=3m (referencepoint)

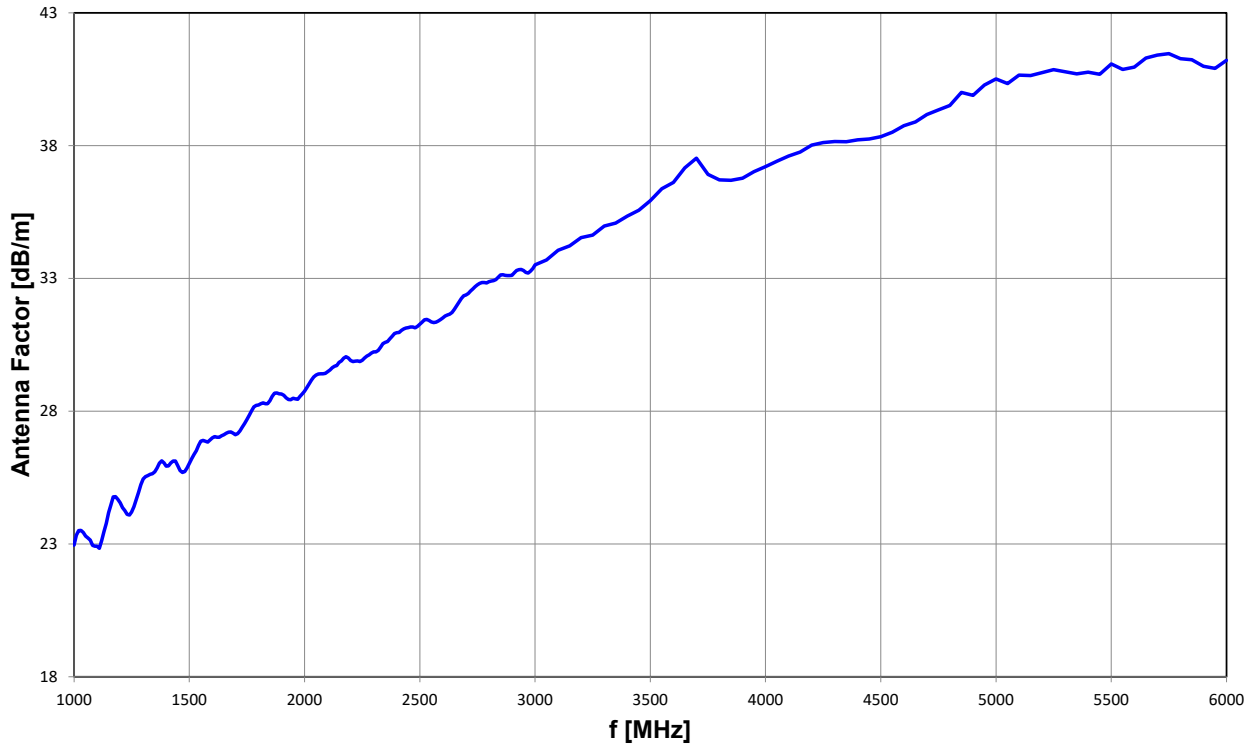


Table 2: Antenna Factor; 1000MHz-6000MHz, d=3m (referencepoint)

f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]
1 000	22.95	±1.20	1 300	25.44	±1.20	1 600	26.99	±1.20
1 010	23.32	±1.20	1 310	25.53	±1.20	1 610	27.04	±1.20
1 020	23.50	±1.20	1 320	25.57	±1.20	1 620	27.01	±1.20
1 030	23.51	±1.20	1 330	25.62	±1.20	1 630	27.01	±1.20
1 040	23.43	±1.20	1 340	25.64	±1.20	1 640	27.07	±1.20
1 050	23.30	±1.20	1 350	25.72	±1.20	1 650	27.11	±1.20
1 060	23.23	±1.20	1 360	25.86	±1.20	1 660	27.17	±1.20
1 070	23.14	±1.20	1 370	26.04	±1.20	1 670	27.21	±1.20
1 080	22.94	±1.20	1 380	26.12	±1.20	1 680	27.22	±1.20
1 090	22.91	±1.20	1 390	26.05	±1.20	1 690	27.16	±1.20
1 100	22.92	±1.20	1 400	25.93	±1.20	1 700	27.11	±1.20
1 110	22.83	±1.20	1 410	25.94	±1.20	1 710	27.15	±1.20
1 120	23.12	±1.20	1 420	26.05	±1.20	1 720	27.25	±1.20
1 130	23.46	±1.20	1 430	26.12	±1.20	1 730	27.40	±1.20
1 140	23.77	±1.20	1 440	26.12	±1.20	1 740	27.53	±1.20
1 150	24.17	±1.20	1 450	25.95	±1.20	1 750	27.68	±1.20
1 160	24.47	±1.20	1 460	25.76	±1.20	1 760	27.84	±1.20
1 170	24.77	±1.20	1 470	25.69	±1.20	1 770	28.01	±1.20
1 180	24.78	±1.20	1 480	25.72	±1.20	1 780	28.16	±1.20
1 190	24.67	±1.20	1 490	25.86	±1.20	1 790	28.22	±1.20
1 200	24.55	±1.20	1 500	26.03	±1.20	1 800	28.23	±1.20
1 210	24.37	±1.20	1 510	26.21	±1.20	1 810	28.28	±1.20
1 220	24.25	±1.20	1 520	26.36	±1.20	1 820	28.31	±1.20
1 230	24.11	±1.20	1 530	26.51	±1.20	1 830	28.27	±1.20
1 240	24.09	±1.20	1 540	26.72	±1.20	1 840	28.28	±1.20
1 250	24.20	±1.20	1 550	26.86	±1.20	1 850	28.39	±1.20
1 260	24.40	±1.20	1 560	26.90	±1.20	1 860	28.56	±1.20
1 270	24.67	±1.20	1 570	26.86	±1.20	1 870	28.68	±1.20
1 280	24.93	±1.20	1 580	26.84	±1.20	1 880	28.68	±1.20
1 290	25.23	±1.20	1 590	26.91	±1.20	1 890	28.65	±1.20

f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]	f [MHz]	AF [dB/m]	U [dB]
1 900	28.65	±1.20	2 470	31.16	±1.20	3 200	34.53	±1.20
1 910	28.60	±1.20	2 480	31.14	±1.20	3 250	34.62	±1.20
1 920	28.50	±1.20	2 490	31.19	±1.20	3 300	34.97	±1.20
1 930	28.43	±1.20	2 500	31.27	±1.20	3 350	35.08	±1.20
1 940	28.43	±1.20	2 510	31.35	±1.20	3 400	35.34	±1.20
1 950	28.48	±1.20	2 520	31.44	±1.20	3 450	35.56	±1.20
1 960	28.46	±1.20	2 530	31.45	±1.20	3 500	35.92	±1.20
1 970	28.45	±1.20	2 540	31.41	±1.20	3 550	36.37	±1.20
1 980	28.56	±1.20	2 550	31.36	±1.20	3 600	36.61	±1.20
1 990	28.64	±1.20	2 560	31.33	±1.20	3 650	37.16	±1.20
2 000	28.74	±1.20	2 570	31.35	±1.20	3 700	37.52	±1.20
2 010	28.88	±1.20	2 580	31.39	±1.20	3 750	36.92	±1.20
2 020	29.02	±1.20	2 590	31.45	±1.20	3 800	36.71	±1.20
2 030	29.16	±1.20	2 600	31.51	±1.20	3 850	36.69	±1.20
2 040	29.29	±1.20	2 610	31.58	±1.20	3 900	36.77	±1.20
2 050	29.35	±1.20	2 620	31.62	±1.20	3 950	37.02	±1.20
2 060	29.39	±1.20	2 630	31.65	±1.20	4 000	37.20	±1.20
2 070	29.41	±1.20	2 640	31.71	±1.20	4 050	37.41	±1.20
2 080	29.40	±1.20	2 650	31.83	±1.20	4 100	37.60	±1.20
2 090	29.42	±1.20	2 660	31.97	±1.20	4 150	37.76	±1.20
2 100	29.48	±1.20	2 670	32.10	±1.20	4 200	38.01	±1.20
2 110	29.55	±1.20	2 680	32.24	±1.20	4 250	38.12	±1.20
2 120	29.64	±1.20	2 690	32.34	±1.20	4 300	38.15	±1.20
2 130	29.69	±1.20	2 700	32.38	±1.20	4 350	38.14	±1.20
2 140	29.72	±1.20	2 710	32.43	±1.20	4 400	38.22	±1.20
2 150	29.83	±1.20	2 720	32.53	±1.20	4 450	38.25	±1.20
2 160	29.89	±1.20	2 730	32.60	±1.20	4 500	38.33	±1.20
2 170	29.99	±1.20	2 740	32.68	±1.20	4 550	38.50	±1.20
2 180	30.05	±1.20	2 750	32.75	±1.20	4 600	38.75	±1.20
2 190	30.00	±1.20	2 760	32.81	±1.20	4 650	38.89	±1.20
2 200	29.90	±1.20	2 770	32.84	±1.20	4 700	39.17	±1.20
2 210	29.87	±1.20	2 780	32.84	±1.20	4 750	39.34	±1.20
2 220	29.88	±1.20	2 790	32.83	±1.20	4 800	39.51	±1.20
2 230	29.89	±1.20	2 800	32.87	±1.20	4 850	40.00	±1.20
2 240	29.87	±1.20	2 810	32.90	±1.20	4 900	39.89	±1.20
2 250	29.91	±1.20	2 820	32.92	±1.20	4 950	40.28	±1.20
2 260	30.00	±1.20	2 830	32.95	±1.20	5 000	40.51	±1.20
2 270	30.07	±1.20	2 840	33.04	±1.20	5 050	40.34	±1.20
2 280	30.12	±1.20	2 850	33.13	±1.20	5 100	40.65	±1.20
2 290	30.19	±1.20	2 860	33.13	±1.20	5 150	40.64	±1.20
2 300	30.23	±1.20	2 870	33.11	±1.20	5 200	40.75	±1.20
2 310	30.23	±1.20	2 880	33.10	±1.20	5 250	40.86	±1.20
2 320	30.28	±1.20	2 890	33.11	±1.20	5 300	40.78	±1.20
2 330	30.41	±1.20	2 900	33.12	±1.20	5 350	40.70	±1.20
2 340	30.54	±1.20	2 910	33.21	±1.20	5 400	40.77	±1.20
2 350	30.59	±1.20	2 920	33.30	±1.20	5 450	40.68	±1.20
2 360	30.62	±1.20	2 930	33.33	±1.20	5 500	41.07	±1.20
2 370	30.72	±1.20	2 940	33.33	±1.20	5 550	40.87	±1.20
2 380	30.82	±1.20	2 950	33.30	±1.20	5 600	40.96	±1.20
2 390	30.92	±1.20	2 960	33.22	±1.20	5 650	41.29	±1.20
2 400	30.95	±1.20	2 970	33.20	±1.20	5 700	41.41	±1.20
2 410	30.96	±1.20	2 980	33.27	±1.20	5 750	41.46	±1.20
2 420	31.04	±1.20	2 990	33.36	±1.20	5 800	41.27	±1.20
2 430	31.10	±1.20	3 000	33.50	±1.20	5 850	41.23	±1.20
2 440	31.13	±1.20	3 050	33.69	±1.20	5 900	40.99	±1.20
2 450	31.15	±1.20	3 100	34.05	±1.20	5 950	40.91	±1.20
2 460	31.17	±1.20	3 150	34.22	±1.20	6 000	41.20	±1.20

Figure 3: VSWR; 130MHz-6000MHz

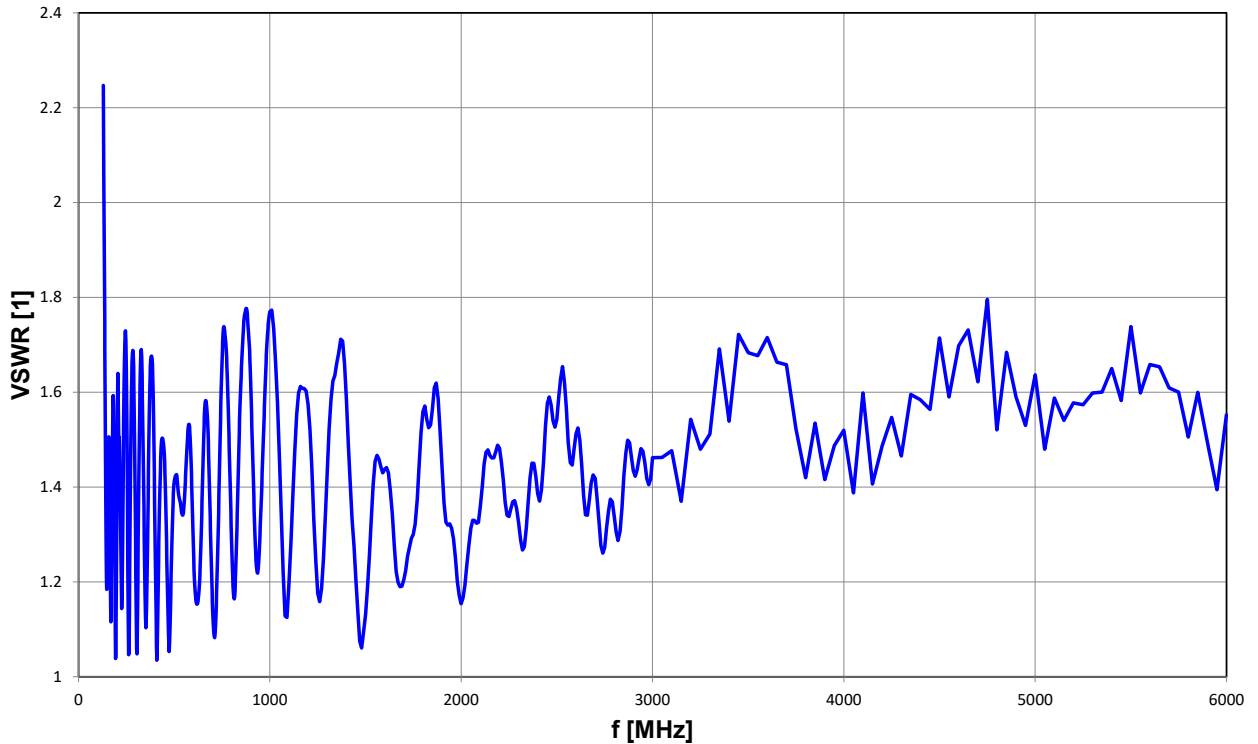


Table 3: VSWR; 130MHz-6000MHz

f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]
130	2.247	-0.13/0.14	160	1.485	-0.07/0.08	190	1.275	-0.06/0.07
131	2.160	-0.12/0.13	161	1.458	-0.07/0.08	191	1.212	-0.06/0.06
132	2.067	-0.11/0.12	162	1.421	-0.07/0.08	192	1.147	-0.06/0.06
133	1.999	-0.11/0.12	163	1.377	-0.07/0.07	193	1.087	-0.05/0.06
134	1.933	-0.10/0.11	164	1.328	-0.07/0.07	194	1.038	-0.05/0.05
135	1.871	-0.10/0.11	165	1.279	-0.06/0.07	195	1.043	-0.05/0.05
136	1.811	-0.10/0.10	166	1.226	-0.06/0.06	196	1.093	-0.05/0.06
137	1.750	-0.09/0.10	167	1.176	-0.06/0.06	197	1.149	-0.06/0.06
138	1.687	-0.09/0.09	168	1.136	-0.06/0.06	198	1.207	-0.06/0.06
139	1.621	-0.08/0.09	169	1.116	-0.05/0.06	199	1.267	-0.06/0.07
140	1.553	-0.08/0.08	170	1.124	-0.05/0.06	200	1.328	-0.07/0.07
141	1.484	-0.07/0.08	171	1.157	-0.06/0.06	202	1.453	-0.07/0.08
142	1.416	-0.07/0.08	172	1.204	-0.06/0.06	204	1.571	-0.08/0.09
143	1.352	-0.07/0.07	173	1.258	-0.06/0.07	206	1.639	-0.08/0.09
144	1.292	-0.06/0.07	174	1.314	-0.07/0.07	208	1.574	-0.08/0.09
145	1.241	-0.06/0.06	175	1.370	-0.07/0.07	210	1.504	-0.08/0.08
146	1.203	-0.06/0.06	176	1.425	-0.07/0.08	212	1.505	-0.08/0.08
147	1.184	-0.06/0.06	177	1.474	-0.07/0.08	214	1.494	-0.08/0.08
148	1.188	-0.06/0.06	178	1.517	-0.08/0.08	216	1.454	-0.07/0.08
149	1.211	-0.06/0.06	179	1.552	-0.08/0.08	218	1.391	-0.07/0.07
150	1.248	-0.06/0.06	180	1.578	-0.08/0.09	220	1.317	-0.07/0.07
151	1.292	-0.06/0.07	181	1.591	-0.08/0.09	222	1.242	-0.07/0.06
152	1.337	-0.07/0.07	182	1.593	-0.08/0.09	224	1.176	-0.06/0.06
153	1.382	-0.07/0.07	183	1.583	-0.08/0.09	226	1.144	-0.06/0.06
154	1.422	-0.07/0.08	184	1.562	-0.08/0.08	228	1.173	-0.06/0.06
155	1.457	-0.07/0.08	185	1.530	-0.08/0.08	230	1.251	-0.06/0.07
156	1.483	-0.07/0.08	186	1.489	-0.08/0.08	232	1.347	-0.07/0.07
157	1.500	-0.08/0.08	187	1.441	-0.07/0.08	234	1.445	-0.07/0.08
158	1.506	-0.08/0.08	188	1.388	-0.07/0.07	236	1.533	-0.08/0.08
159	1.501	-0.08/0.08	189	1.332	-0.07/0.07	238	1.606	-0.08/0.09



f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]
240	1.662	-0.09/0.09	370	1.554	-0.08/0.08	500	1.411	-0.07/0.07
242	1.701	-0.09/0.09	372	1.598	-0.08/0.09	502	1.417	-0.07/0.08
244	1.725	-0.09/0.10	374	1.632	-0.08/0.09	504	1.420	-0.07/0.08
246	1.729	-0.09/0.10	376	1.656	-0.09/0.09	506	1.422	-0.07/0.08
248	1.708	-0.09/0.09	378	1.669	-0.09/0.09	508	1.424	-0.07/0.08
250	1.653	-0.09/0.09	380	1.676	-0.09/0.09	510	1.425	-0.07/0.08
252	1.569	-0.08/0.09	382	1.676	-0.09/0.09	512	1.426	-0.07/0.08
254	1.468	-0.07/0.08	384	1.671	-0.09/0.09	514	1.423	-0.07/0.08
256	1.347	-0.07/0.07	386	1.660	-0.09/0.09	516	1.416	-0.07/0.08
258	1.232	-0.06/0.06	388	1.638	-0.08/0.09	518	1.406	-0.07/0.07
260	1.131	-0.06/0.06	390	1.603	-0.08/0.09	520	1.396	-0.07/0.07
262	1.046	-0.05/0.05	392	1.556	-0.08/0.08	522	1.387	-0.07/0.07
264	1.053	-0.05/0.05	394	1.496	-0.08/0.08	524	1.381	-0.07/0.07
266	1.137	-0.06/0.06	396	1.432	-0.07/0.08	526	1.377	-0.07/0.07
268	1.234	-0.06/0.06	398	1.366	-0.07/0.07	528	1.374	-0.07/0.07
270	1.336	-0.07/0.07	400	1.301	-0.06/0.07	530	1.371	-0.07/0.07
272	1.434	-0.07/0.08	402	1.239	-0.06/0.06	532	1.367	-0.07/0.07
274	1.518	-0.08/0.08	404	1.178	-0.06/0.06	534	1.362	-0.07/0.07
276	1.585	-0.08/0.09	406	1.119	-0.05/0.06	536	1.355	-0.07/0.07
278	1.632	-0.08/0.09	408	1.064	-0.05/0.05	538	1.350	-0.07/0.07
280	1.662	-0.09/0.09	410	1.035	-0.05/0.05	540	1.345	-0.07/0.07
282	1.681	-0.09/0.09	412	1.070	-0.05/0.06	542	1.342	-0.07/0.07
284	1.688	-0.09/0.09	414	1.125	-0.05/0.06	544	1.341	-0.07/0.07
286	1.680	-0.09/0.09	416	1.180	-0.06/0.06	546	1.342	-0.07/0.07
288	1.653	-0.09/0.09	418	1.234	-0.06/0.06	548	1.346	-0.07/0.07
290	1.604	-0.08/0.09	420	1.286	-0.06/0.07	550	1.353	-0.07/0.07
292	1.538	-0.08/0.08	422	1.332	-0.07/0.07	552	1.363	-0.07/0.07
294	1.461	-0.07/0.08	424	1.371	-0.07/0.07	554	1.377	-0.07/0.07
296	1.380	-0.07/0.07	426	1.404	-0.07/0.07	556	1.393	-0.07/0.07
298	1.298	-0.06/0.07	428	1.435	-0.07/0.08	558	1.410	-0.07/0.07
300	1.215	-0.06/0.06	430	1.462	-0.07/0.08	560	1.426	-0.07/0.08
302	1.132	-0.06/0.06	432	1.483	-0.07/0.08	562	1.442	-0.07/0.08
304	1.057	-0.05/0.05	434	1.496	-0.08/0.08	564	1.459	-0.07/0.08
306	1.048	-0.05/0.05	436	1.502	-0.08/0.08	566	1.476	-0.07/0.08
308	1.119	-0.05/0.06	438	1.503	-0.08/0.08	568	1.492	-0.08/0.08
310	1.200	-0.06/0.06	440	1.502	-0.08/0.08	570	1.506	-0.08/0.08
312	1.283	-0.06/0.07	442	1.498	-0.08/0.08	572	1.518	-0.08/0.08
314	1.364	-0.07/0.07	444	1.492	-0.08/0.08	574	1.527	-0.08/0.08
316	1.439	-0.07/0.08	446	1.484	-0.07/0.08	576	1.532	-0.08/0.08
318	1.507	-0.08/0.08	448	1.471	-0.07/0.08	578	1.532	-0.08/0.08
320	1.566	-0.08/0.09	450	1.454	-0.07/0.08	580	1.528	-0.08/0.08
322	1.616	-0.08/0.09	452	1.430	-0.07/0.08	582	1.517	-0.08/0.08
324	1.656	-0.09/0.09	454	1.400	-0.07/0.07	584	1.501	-0.08/0.08
326	1.683	-0.09/0.09	456	1.366	-0.07/0.07	586	1.480	-0.07/0.08
328	1.690	-0.09/0.09	458	1.327	-0.07/0.07	588	1.456	-0.07/0.08
330	1.675	-0.09/0.09	460	1.287	-0.06/0.07	590	1.431	-0.07/0.08
332	1.639	-0.08/0.09	462	1.246	-0.06/0.06	592	1.403	-0.07/0.07
334	1.589	-0.08/0.09	464	1.206	-0.06/0.06	594	1.373	-0.07/0.07
336	1.533	-0.08/0.08	466	1.168	-0.06/0.06	596	1.342	-0.07/0.07
338	1.474	-0.07/0.08	468	1.129	-0.06/0.06	598	1.309	-0.06/0.07
340	1.414	-0.07/0.08	470	1.093	-0.05/0.06	600	1.278	-0.06/0.07
342	1.352	-0.07/0.07	472	1.063	-0.05/0.05	602	1.250	-0.06/0.07
344	1.289	-0.06/0.07	474	1.053	-0.05/0.05	604	1.225	-0.06/0.06
346	1.228	-0.06/0.06	476	1.069	-0.05/0.05	606	1.205	-0.06/0.06
348	1.171	-0.06/0.06	478	1.098	-0.05/0.06	608	1.189	-0.06/0.06
350	1.126	-0.06/0.06	480	1.133	-0.06/0.06	610	1.177	-0.06/0.06
352	1.103	-0.05/0.06	482	1.171	-0.06/0.06	612	1.167	-0.06/0.06
354	1.112	-0.05/0.06	484	1.208	-0.06/0.06	614	1.160	-0.06/0.06
356	1.147	-0.06/0.06	486	1.244	-0.06/0.06	616	1.156	-0.06/0.06
358	1.197	-0.06/0.06	488	1.279	-0.06/0.07	618	1.153	-0.06/0.06
360	1.254	-0.06/0.07	490	1.311	-0.06/0.07	620	1.153	-0.06/0.06
362	1.316	-0.07/0.07	492	1.341	-0.07/0.07	622	1.154	-0.06/0.06
364	1.379	-0.07/0.07	494	1.366	-0.07/0.07	624	1.158	-0.06/0.06
366	1.442	-0.07/0.08	496	1.386	-0.07/0.07	626	1.164	-0.06/0.06
368	1.501	-0.08/0.08	498	1.401	-0.07/0.07	628	1.172	-0.06/0.06

f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]
630	1.182	-0.06/0.06	760	1.738	-0.09/0.10	890	1.715	-0.09/0.10
632	1.195	-0.06/0.06	762	1.734	-0.09/0.10	892	1.702	-0.09/0.09
634	1.212	-0.06/0.06	764	1.727	-0.09/0.10	894	1.688	-0.09/0.09
636	1.232	-0.06/0.06	766	1.721	-0.09/0.10	896	1.668	-0.09/0.09
638	1.255	-0.06/0.07	768	1.713	-0.09/0.10	898	1.646	-0.08/0.09
640	1.281	-0.06/0.07	770	1.702	-0.09/0.09	900	1.619	-0.08/0.09
642	1.310	-0.06/0.07	772	1.690	-0.09/0.09	902	1.589	-0.08/0.09
644	1.340	-0.07/0.07	774	1.674	-0.09/0.09	904	1.559	-0.08/0.08
646	1.372	-0.07/0.07	776	1.654	-0.09/0.09	906	1.530	-0.08/0.08
648	1.404	-0.07/0.07	778	1.631	-0.08/0.09	908	1.501	-0.08/0.08
650	1.437	-0.07/0.08	780	1.603	-0.08/0.09	910	1.472	-0.07/0.08
652	1.469	-0.07/0.08	782	1.573	-0.08/0.09	912	1.442	-0.07/0.08
654	1.499	-0.08/0.08	784	1.543	-0.08/0.08	914	1.412	-0.07/0.07
656	1.527	-0.08/0.08	786	1.511	-0.08/0.08	916	1.382	-0.07/0.07
658	1.550	-0.08/0.08	788	1.479	-0.07/0.08	918	1.352	-0.07/0.07
660	1.567	-0.08/0.09	790	1.447	-0.07/0.08	920	1.324	-0.07/0.07
662	1.578	-0.08/0.09	792	1.415	-0.07/0.08	922	1.299	-0.06/0.07
664	1.582	-0.08/0.09	794	1.384	-0.07/0.07	924	1.277	-0.06/0.07
666	1.582	-0.08/0.09	796	1.351	-0.07/0.07	926	1.260	-0.06/0.07
668	1.578	-0.08/0.09	798	1.320	-0.07/0.07	928	1.245	-0.06/0.06
670	1.570	-0.08/0.09	800	1.288	-0.06/0.07	930	1.233	-0.06/0.06
672	1.559	-0.08/0.08	802	1.259	-0.06/0.07	932	1.225	-0.06/0.06
674	1.545	-0.08/0.08	804	1.232	-0.06/0.06	934	1.220	-0.06/0.06
676	1.525	-0.08/0.08	806	1.209	-0.06/0.06	936	1.218	-0.06/0.06
678	1.501	-0.08/0.08	808	1.190	-0.06/0.06	938	1.222	-0.06/0.06
680	1.471	-0.07/0.08	810	1.176	-0.06/0.06	940	1.229	-0.06/0.06
682	1.439	-0.07/0.08	812	1.167	-0.06/0.06	942	1.242	-0.06/0.06
684	1.405	-0.07/0.07	814	1.164	-0.06/0.06	944	1.259	-0.06/0.07
686	1.372	-0.07/0.07	816	1.169	-0.06/0.06	946	1.277	-0.06/0.07
688	1.339	-0.07/0.07	818	1.182	-0.06/0.06	948	1.297	-0.06/0.07
690	1.307	-0.07/0.07	820	1.203	-0.06/0.06	950	1.317	-0.07/0.07
692	1.275	-0.06/0.07	822	1.229	-0.06/0.06	952	1.337	-0.07/0.07
694	1.243	-0.06/0.06	824	1.256	-0.06/0.07	954	1.358	-0.07/0.07
696	1.212	-0.06/0.06	826	1.285	-0.06/0.07	956	1.380	-0.07/0.07
698	1.183	-0.06/0.06	828	1.314	-0.07/0.07	958	1.403	-0.07/0.07
700	1.156	-0.06/0.06	830	1.344	-0.07/0.07	960	1.428	-0.07/0.08
702	1.133	-0.06/0.06	832	1.376	-0.07/0.07	962	1.453	-0.07/0.08
704	1.115	-0.05/0.06	834	1.411	-0.07/0.07	964	1.477	-0.07/0.08
706	1.099	-0.05/0.06	836	1.446	-0.07/0.08	966	1.501	-0.08/0.08
708	1.089	-0.05/0.06	838	1.481	-0.07/0.08	968	1.524	-0.08/0.08
710	1.083	-0.05/0.06	840	1.514	-0.08/0.08	970	1.548	-0.08/0.08
712	1.082	-0.05/0.06	842	1.543	-0.08/0.08	972	1.572	-0.08/0.09
714	1.090	-0.05/0.06	844	1.570	-0.08/0.09	974	1.595	-0.08/0.09
716	1.105	-0.05/0.06	846	1.593	-0.08/0.09	976	1.618	-0.08/0.09
718	1.125	-0.05/0.06	848	1.615	-0.08/0.09	978	1.640	-0.08/0.09
720	1.150	-0.06/0.06	850	1.634	-0.08/0.09	980	1.660	-0.09/0.09
722	1.178	-0.06/0.06	852	1.652	-0.09/0.09	982	1.679	-0.09/0.09
724	1.208	-0.06/0.06	854	1.670	-0.09/0.09	984	1.695	-0.09/0.09
726	1.240	-0.06/0.06	856	1.688	-0.09/0.09	986	1.710	-0.09/0.10
728	1.273	-0.06/0.07	858	1.705	-0.09/0.09	988	1.723	-0.09/0.10
730	1.308	-0.06/0.07	860	1.722	-0.09/0.10	990	1.734	-0.09/0.10
732	1.344	-0.07/0.07	862	1.737	-0.09/0.10	992	1.743	-0.09/0.10
734	1.383	-0.07/0.07	864	1.748	-0.09/0.10	994	1.752	-0.09/0.10
736	1.422	-0.07/0.08	866	1.757	-0.09/0.10	996	1.759	-0.09/0.10
738	1.462	-0.07/0.08	868	1.763	-0.09/0.10	998	1.766	-0.09/0.10
740	1.502	-0.08/0.08	870	1.767	-0.09/0.10	1 000	1.770	-0.09/0.10
742	1.539	-0.08/0.08	872	1.771	-0.09/0.10	1 010	1.773	-0.21/0.25
744	1.574	-0.08/0.09	874	1.774	-0.09/0.10	1 020	1.734	-0.21/0.24
746	1.606	-0.08/0.09	876	1.777	-0.09/0.10	1 030	1.663	-0.20/0.23
748	1.635	-0.08/0.09	878	1.777	-0.09/0.10	1 040	1.578	-0.19/0.22
750	1.662	-0.09/0.09	880	1.773	-0.09/0.10	1 050	1.465	-0.17/0.20
752	1.688	-0.09/0.09	882	1.766	-0.09/0.10	1 060	1.341	-0.15/0.18
754	1.709	-0.09/0.09	884	1.754	-0.09/0.10	1 070	1.219	-0.14/0.16
756	1.726	-0.09/0.10	886	1.741	-0.09/0.10	1 080	1.128	-0.13/0.15
758	1.736	-0.09/0.10	888	1.728	-0.09/0.10	1 090	1.125	-0.13/0.14



f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]
1 100	1.193	-0.14/0.15	1 750	1.300	-0.15/0.17	2 400	1.386	-0.16/0.18
1 110	1.284	-0.15/0.17	1 760	1.322	-0.15/0.17	2 410	1.370	-0.16/0.18
1 120	1.383	-0.16/0.18	1 770	1.374	-0.16/0.18	2 420	1.394	-0.16/0.19
1 130	1.476	-0.17/0.20	1 780	1.447	-0.17/0.19	2 430	1.453	-0.17/0.19
1 140	1.552	-0.18/0.21	1 790	1.515	-0.18/0.21	2 440	1.528	-0.18/0.21
1 150	1.598	-0.19/0.22	1 800	1.559	-0.18/0.21	2 450	1.576	-0.18/0.22
1 160	1.612	-0.19/0.22	1 810	1.571	-0.18/0.21	2 460	1.590	-0.19/0.22
1 170	1.608	-0.19/0.22	1 820	1.543	-0.18/0.21	2 470	1.572	-0.18/0.22
1 180	1.608	-0.19/0.22	1 830	1.525	-0.18/0.21	2 480	1.540	-0.18/0.21
1 190	1.602	-0.19/0.22	1 840	1.531	-0.18/0.21	2 490	1.526	-0.18/0.21
1 200	1.574	-0.18/0.22	1 850	1.565	-0.18/0.21	2 500	1.542	-0.18/0.21
1 210	1.521	-0.18/0.21	1 860	1.609	-0.19/0.22	2 510	1.590	-0.19/0.22
1 220	1.440	-0.17/0.19	1 870	1.619	-0.19/0.22	2 520	1.629	-0.19/0.23
1 230	1.333	-0.15/0.18	1 880	1.586	-0.19/0.22	2 530	1.654	-0.20/0.23
1 240	1.242	-0.14/0.16	1 890	1.519	-0.18/0.21	2 540	1.621	-0.19/0.22
1 250	1.175	-0.13/0.15	1 900	1.438	-0.17/0.19	2 550	1.567	-0.18/0.21
1 260	1.158	-0.13/0.15	1 910	1.366	-0.16/0.18	2 560	1.494	-0.17/0.20
1 270	1.186	-0.13/0.15	1 920	1.326	-0.15/0.17	2 570	1.451	-0.17/0.19
1 280	1.248	-0.14/0.16	1 930	1.320	-0.15/0.17	2 580	1.446	-0.17/0.19
1 290	1.338	-0.15/0.18	1 940	1.322	-0.15/0.17	2 590	1.481	-0.17/0.20
1 300	1.432	-0.17/0.19	1 950	1.313	-0.15/0.17	2 600	1.512	-0.18/0.20
1 310	1.524	-0.18/0.21	1 960	1.290	-0.15/0.17	2 610	1.524	-0.18/0.21
1 320	1.585	-0.19/0.22	1 970	1.251	-0.14/0.16	2 620	1.499	-0.17/0.20
1 330	1.624	-0.19/0.22	1 980	1.201	-0.14/0.16	2 630	1.446	-0.17/0.19
1 340	1.635	-0.19/0.23	1 990	1.171	-0.13/0.15	2 640	1.382	-0.16/0.18
1 350	1.661	-0.20/0.23	2 000	1.154	-0.13/0.15	2 650	1.342	-0.15/0.18
1 360	1.682	-0.20/0.23	2 010	1.166	-0.13/0.15	2 660	1.340	-0.15/0.18
1 370	1.712	-0.20/0.24	2 020	1.192	-0.14/0.15	2 670	1.372	-0.16/0.18
1 380	1.707	-0.20/0.24	2 030	1.235	-0.14/0.16	2 680	1.408	-0.16/0.19
1 390	1.660	-0.20/0.23	2 040	1.278	-0.15/0.17	2 690	1.426	-0.16/0.19
1 400	1.584	-0.19/0.22	2 050	1.312	-0.15/0.17	2 700	1.418	-0.16/0.19
1 410	1.490	-0.17/0.20	2 060	1.330	-0.15/0.18	2 710	1.375	-0.16/0.18
1 420	1.409	-0.16/0.19	2 070	1.329	-0.15/0.18	2 720	1.327	-0.15/0.17
1 430	1.330	-0.15/0.18	2 080	1.324	-0.15/0.17	2 730	1.276	-0.15/0.17
1 440	1.275	-0.15/0.17	2 090	1.325	-0.15/0.17	2 740	1.261	-0.14/0.16
1 450	1.203	-0.14/0.16	2 100	1.359	-0.16/0.18	2 750	1.272	-0.15/0.17
1 460	1.138	-0.13/0.15	2 110	1.399	-0.16/0.19	2 760	1.314	-0.15/0.17
1 470	1.075	-0.12/0.14	2 120	1.448	-0.17/0.19	2 770	1.348	-0.15/0.18
1 480	1.060	-0.12/0.14	2 130	1.473	-0.17/0.20	2 780	1.374	-0.16/0.18
1 490	1.094	-0.12/0.14	2 140	1.478	-0.17/0.20	2 790	1.369	-0.16/0.18
1 500	1.131	-0.13/0.15	2 150	1.467	-0.17/0.20	2 800	1.339	-0.15/0.18
1 510	1.188	-0.13/0.15	2 160	1.461	-0.17/0.20	2 810	1.306	-0.15/0.17
1 520	1.255	-0.14/0.16	2 170	1.461	-0.17/0.20	2 820	1.287	-0.15/0.17
1 530	1.333	-0.15/0.18	2 180	1.474	-0.17/0.20	2 830	1.307	-0.15/0.17
1 540	1.406	-0.16/0.19	2 190	1.488	-0.17/0.20	2 840	1.356	-0.16/0.18
1 550	1.454	-0.17/0.20	2 200	1.482	-0.17/0.20	2 850	1.424	-0.16/0.19
1 560	1.467	-0.17/0.20	2 210	1.453	-0.17/0.19	2 860	1.470	-0.17/0.20
1 570	1.459	-0.17/0.20	2 220	1.415	-0.16/0.19	2 870	1.499	-0.17/0.20
1 580	1.443	-0.17/0.19	2 230	1.368	-0.16/0.18	2 880	1.493	-0.17/0.20
1 590	1.430	-0.17/0.19	2 240	1.340	-0.15/0.18	2 890	1.462	-0.17/0.20
1 600	1.437	-0.17/0.19	2 250	1.338	-0.15/0.18	2 900	1.434	-0.17/0.19
1 610	1.441	-0.17/0.19	2 260	1.354	-0.16/0.18	2 910	1.423	-0.16/0.19
1 620	1.430	-0.17/0.19	2 270	1.369	-0.16/0.18	2 920	1.437	-0.17/0.19
1 630	1.393	-0.16/0.19	2 280	1.371	-0.16/0.18	2 930	1.460	-0.17/0.20
1 640	1.342	-0.15/0.18	2 290	1.355	-0.16/0.18	2 940	1.481	-0.17/0.20
1 650	1.276	-0.15/0.17	2 300	1.324	-0.15/0.17	2 950	1.475	-0.17/0.20
1 660	1.222	-0.14/0.16	2 310	1.289	-0.15/0.17	2 960	1.453	-0.17/0.19
1 670	1.199	-0.14/0.16	2 320	1.267	-0.14/0.17	2 970	1.417	-0.16/0.19
1 680	1.190	-0.13/0.15	2 330	1.274	-0.15/0.17	2 980	1.405	-0.16/0.19
1 690	1.190	-0.14/0.15	2 340	1.312	-0.15/0.17	2 990	1.417	-0.16/0.19
1 700	1.204	-0.14/0.16	2 350	1.368	-0.16/0.18	3 000	1.462	-0.17/0.20
1 710	1.223	-0.14/0.16	2 360	1.419	-0.16/0.19	3 050	1.462	-0.17/0.20
1 720	1.254	-0.14/0.16	2 370	1.450	-0.17/0.19	3 100	1.477	-0.17/0.20
1 730	1.273	-0.15/0.17	2 380	1.450	-0.17/0.19	3 150	1.370	-0.16/0.18
1 740	1.292	-0.15/0.17	2 390	1.424	-0.16/0.19	3 200	1.543	-0.18/0.21

f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]	f [MHz]	VSWR [1]	U [1]
3 250	1.479	-0.17/0.20	4 200	1.487	-0.17/0.20	5 150	1.541	-0.18/0.21
3 300	1.512	-0.18/0.20	4 250	1.546	-0.18/0.21	5 200	1.577	-0.18/0.22
3 350	1.691	-0.20/0.24	4 300	1.465	-0.17/0.20	5 250	1.574	-0.18/0.22
3 400	1.539	-0.18/0.21	4 350	1.595	-0.19/0.22	5 300	1.598	-0.19/0.22
3 450	1.722	-0.21/0.24	4 400	1.584	-0.19/0.22	5 350	1.600	-0.19/0.22
3 500	1.683	-0.20/0.23	4 450	1.563	-0.18/0.21	5 400	1.650	-0.20/0.23
3 550	1.677	-0.20/0.23	4 500	1.714	-0.20/0.24	5 450	1.582	-0.19/0.22
3 600	1.715	-0.20/0.24	4 550	1.590	-0.19/0.22	5 500	1.738	-0.21/0.25
3 650	1.663	-0.20/0.23	4 600	1.698	-0.20/0.24	5 550	1.598	-0.19/0.22
3 700	1.658	-0.20/0.23	4 650	1.731	-0.21/0.24	5 600	1.658	-0.20/0.23
3 750	1.523	-0.18/0.21	4 700	1.622	-0.19/0.22	5 650	1.653	-0.20/0.23
3 800	1.420	-0.16/0.19	4 750	1.796	-0.22/0.26	5 700	1.609	-0.19/0.22
3 850	1.535	-0.18/0.21	4 800	1.520	-0.18/0.21	5 750	1.600	-0.19/0.22
3 900	1.416	-0.16/0.19	4 850	1.684	-0.20/0.24	5 800	1.505	-0.18/0.20
3 950	1.487	-0.17/0.20	4 900	1.590	-0.19/0.22	5 850	1.600	-0.19/0.22
4 000	1.520	-0.18/0.21	4 950	1.530	-0.18/0.21	5 900	1.494	-0.17/0.20
4 050	1.388	-0.16/0.18	5 000	1.636	-0.19/0.23	5 950	1.394	-0.16/0.19
4 100	1.598	-0.19/0.22	5 050	1.480	-0.17/0.20	6 000	1.552	-0.18/0.21
4 150	1.406	-0.16/0.19	5 100	1.588	-0.19/0.22			