

平面アンテナのファイバマジックシリーズ

# FML2.4W

無線LAN対応2.4/5.2/5.6GHz併用モデル

2007年5月22日  
(株)ファイバライツ

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## 1.1 基本仕様

### 1. 品名

FML2.4W

:FML2.4Wはアンテナを装置に張り付けて使われる事を想定し、代表的なABS樹脂に張り付けた状態でVSWR値をチューニングしました。

### 2. 主な標準仕様

項目		規格					
モデル		FML2.4/5.2-30	FML2.4/5.2-30(ABS樹脂)	FML2.4W-90	FML2.4W-90(ABS樹脂)	-	
型式及び構成		平面ダイポール方式 単一型(V), / 2				-	
外形寸法		47mm × 19mm × 0.4mm (高さ × 幅 × 厚さ)		37mm × 19mm × 0.4mm (高さ × 幅 × 厚さ)		アンテナ基板部の寸法	
質量		約1g以下				アンテナ単体	
使用周波数	2.4GHz帯	2400 ~ 2500MHz				-	
	5.2GHz帯	5150 ~ 5725MHz				-	
共振点	2.4GHz帯	2469MHz	2313MHz	2485MHz	2358MHz	-	
	5.2GHz帯	5397MHz	5628MHz	6025MHz	5642MHz	-	
VSWR	2.4GHz帯	2以下	2335 ~ 2603MHz	2260 ~ 2373MHz	2290 ~ 2628MHz	2163 ~ 2508MHz	-
		1.5以下	2402 ~ 2543MHz	-	2388 ~ 2568MHz	2260 ~ 2448MHz	-
	5.2GHz帯	2以下	5046 ~ 5523MHz	5455 ~ 6040MHz	5170 ~ 6040MHz	5028 ~ 5815MHz	-
		1.5以下	-	5545 ~ 5770MHz	5320 ~ 5418MHz /5935 ~ 6040MHz	5530 ~ 5718MHz	-
利得	2.4GHz帯	最大利得	2.50dBi	-	-	-	2400 ~ 2500MHz
		平均利得	2.05dBi	-	-	-	
	5.2GHz帯	最大利得	1.35dBi	-	-	-	5150 ~ 5800MHz
		平均利得	-0.43dBi	-	-	-	
特性インピーダンス		50				-	
偏波面		垂直偏波				-	
水平面内指向性		無指向性				-	
コネクタ		U.FL-LP-066				ケーブル、コネクタ付き時	
ケーブル		ケーブル長; 100mm ケーブル太さ; 1.13mm				極細テフロン同軸ケーブル ケーブル、コネクタ付き時	
耐電力		1W				-	
使用温度		-20 ~ 90				-	
アンテナ基板材質		ガラスエポキシ機材、0.3mm 両面銅箔、18/18マイクロン				-	
環境対策		RoHS指令対応				-	
梱包		1枚 / 袋				ケーブル、コネクタ付き時	

:FML2.4/5.2-30(ABS樹脂)、及びFML2.4W-90(ABS樹脂)とはアンテナ基板にABS樹脂2mm板を張り付けた状態のサンプルです。

### 3. 製造

株式会社フェイス

# 1.2 FML2.4/5.2-30 パターソイメージ

## 2.4GHz/5.2GHz帯域デュアルバンドモデル

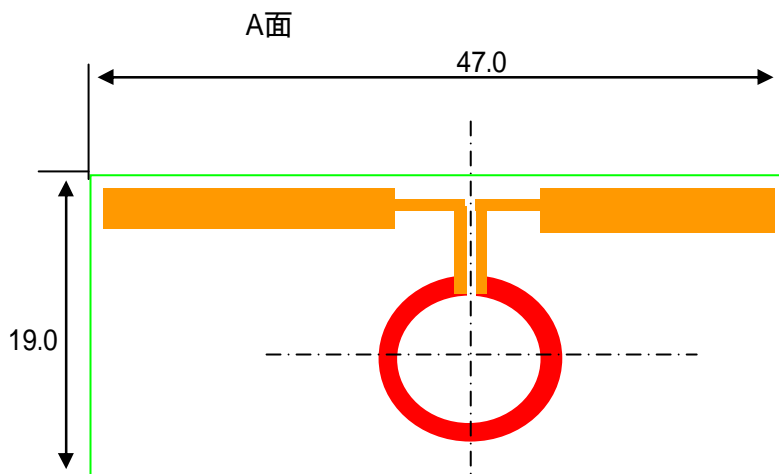
### 外形寸法

47.0mm × 19.0mm

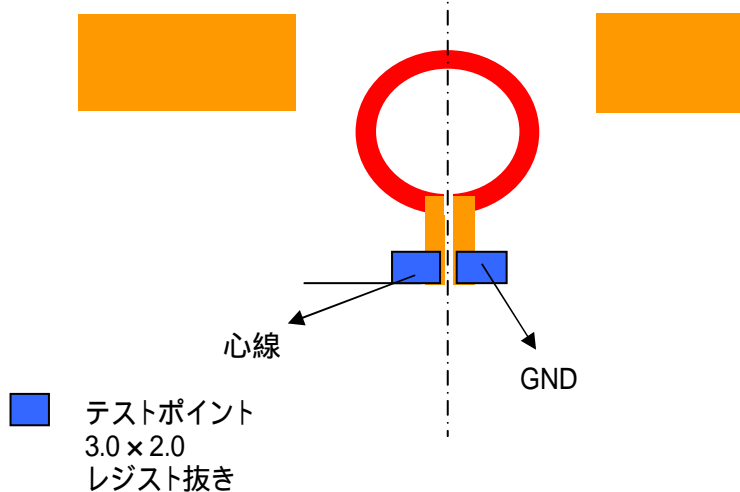
注意

ガラスエポ  
0.3mm  
レジスト両面

銅箔;  
18ミクロン両面



B面  
(A面視)

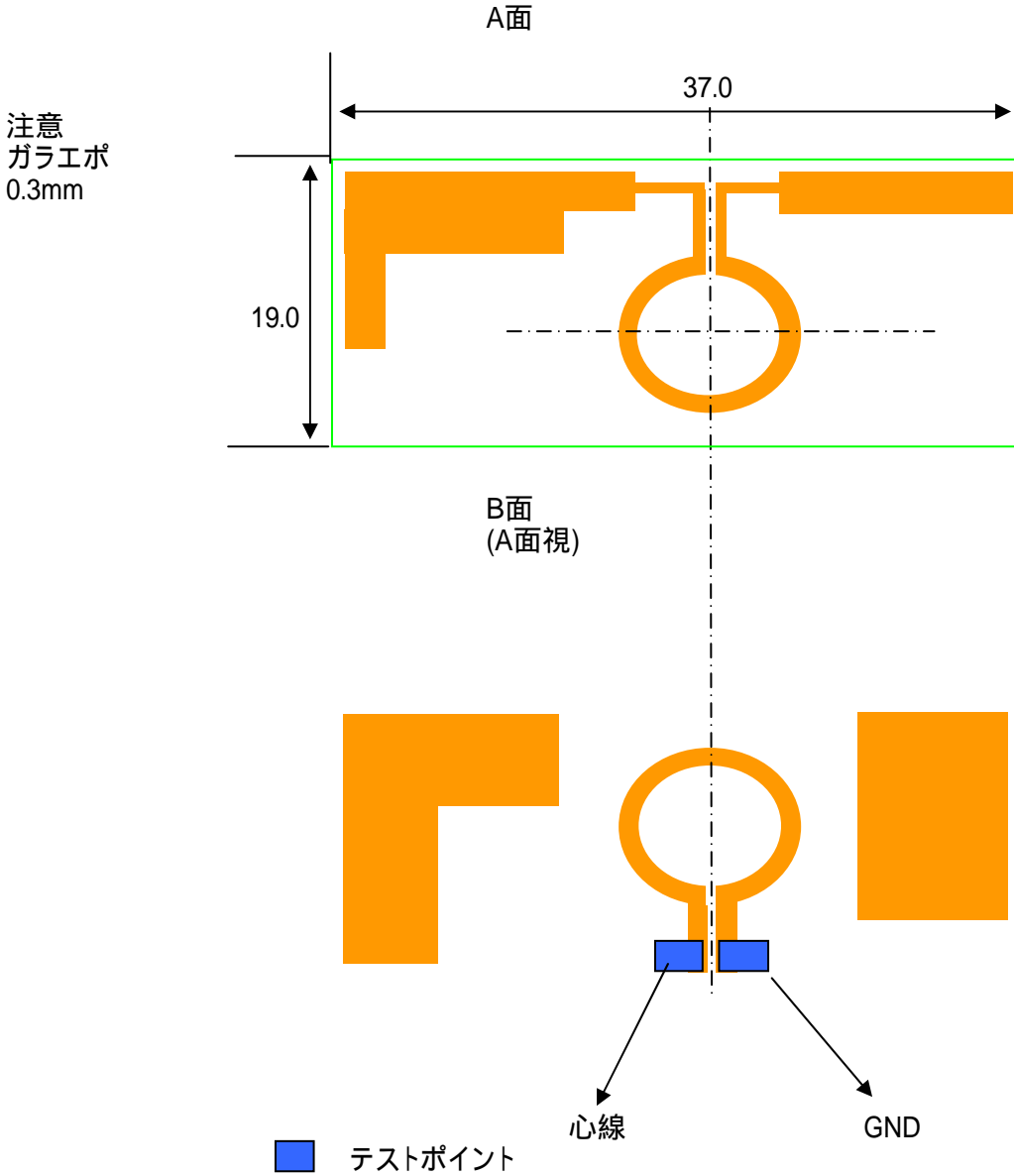


# 1.3 FML2.4W-90 パターンイメージ

## ABS樹脂に張り付け時の離調対策パターン

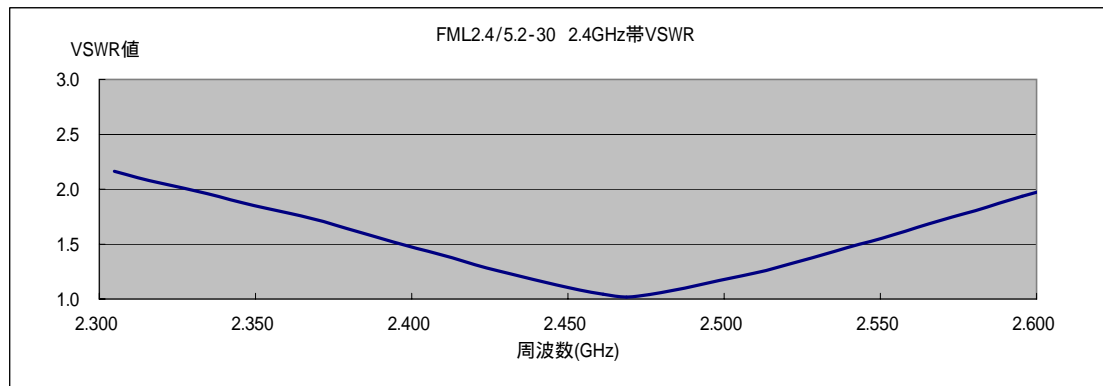
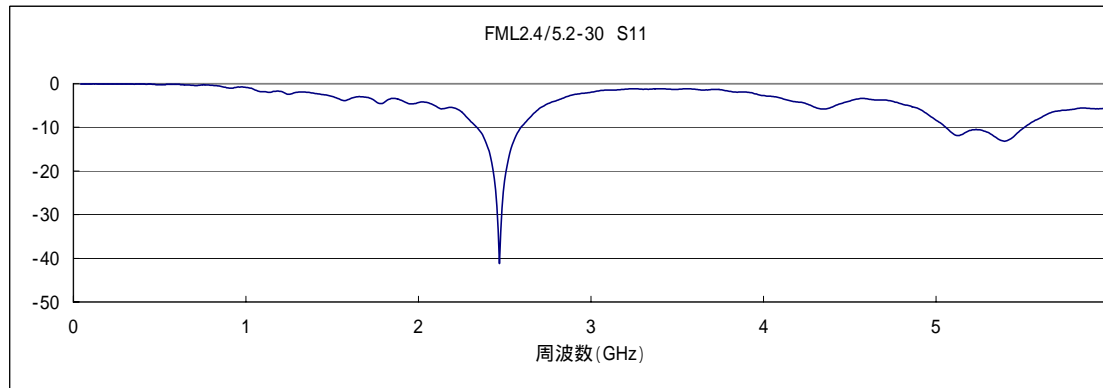
### 外形寸法

37.0mm × 19.0mm



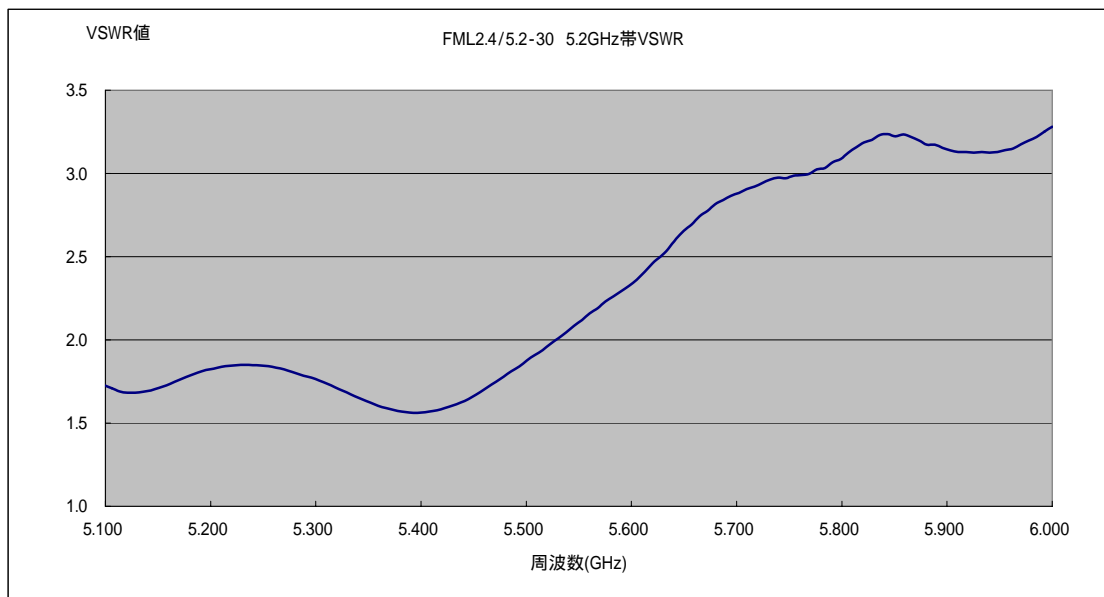
## 2.1 FML2.4/5.2-30 測定データ(2.4GHz帯VSWR)

				周波数(GHz)	VSWR
2.29735	-8.37E+00	0.381	2.23	2.305	2.16
2.3048	-8.69E+00	0.368	2.16	2.312	2.10
2.31225	-8.97E+00	0.356	2.10	2.320	2.06
2.3197	-9.23E+00	0.346	2.06	2.327	2.01
2.32715	-9.50E+00	0.335	2.01	2.335	1.96
2.3346	-9.79E+00	0.324	1.96	2.342	1.90
2.34205	-1.01E+01	0.311	1.90	2.349	1.85
2.3495	-1.05E+01	0.299	1.85	2.357	1.80
2.35695	-1.08E+01	0.287	1.80	2.364	1.76
2.3644	-1.12E+01	0.275	1.76	2.372	1.70
2.37185	-1.17E+01	0.261	1.70	2.379	1.64
2.3793	-1.23E+01	0.243	1.64	2.387	1.58
2.38675	-1.30E+01	0.225	1.58	2.394	1.52
2.3942	-1.37E+01	0.206	1.52	2.402	1.46
2.40165	-1.46E+01	0.187	1.46	2.409	1.40
2.4091	-1.55E+01	0.168	1.40	2.417	1.34
2.41655	-1.67E+01	0.147	1.34	2.424	1.28
2.424	-1.81E+01	0.124	1.28	2.431	1.23
2.43145	-1.98E+01	0.103	1.23	2.439	1.18
2.4389	-2.18E+01	0.082	1.18	2.446	1.13
2.44635	-2.44E+01	0.061	1.13	2.454	1.08
2.4538	-2.81E+01	0.039	1.08	2.461	1.04
2.46125	-3.35E+01	0.021	1.04	2.469	1.02
2.4687	-4.12E+01	0.009	1.02	2.476	1.04
2.47615	-3.40E+01	0.020	1.04	2.484	1.08
2.4836	-2.85E+01	0.038	1.08	2.491	1.12
2.49105	-2.48E+01	0.058	1.12	2.498	1.17
2.4985	-2.22E+01	0.078	1.17	2.506	1.21
2.50595	-2.03E+01	0.096	1.21	2.513	1.26
2.5134	-1.88E+01	0.115	1.26	2.521	1.32
2.52085	-1.73E+01	0.137	1.32	2.528	1.38
2.5283	-1.60E+01	0.159	1.38	2.536	1.44
2.53575	-1.49E+01	0.180	1.44	2.543	1.50
2.5432	-1.40E+01	0.199	1.50	2.551	1.55
2.55065	-1.33E+01	0.217	1.55	2.558	1.62
2.5581	-1.25E+01	0.236	1.62	2.566	1.69
2.56555	-1.19E+01	0.255	1.69	2.573	1.75
2.573	-1.13E+01	0.272	1.75	2.580	1.81
2.58045	-1.08E+01	0.287	1.81	2.588	1.87
2.5879	-1.04E+01	0.303	1.87	2.595	1.94
2.59535	-9.93E+00	0.319	1.94	2.603	1.99
2.6028	-9.58E+00	0.332	1.99		



## 2.2 FML2.4/5.2-30 測定データ(5.2GHz帯VSWR)

周波数(GHz)	VSWR
4.99425	2.27
5.0017	2.22
5.00915	2.19
5.0166	2.14
5.02405	2.10
5.0315	2.06
5.03895	2.02
5.0464	1.98
5.05385	1.94
5.0613	1.90
5.06875	1.86
5.0762	1.82
5.08365	1.79
5.0911	1.76
5.09855	1.73
5.106	1.71
5.11345	1.69
5.1209	1.68
5.12835	1.68
5.1358	1.69
5.14325	1.70
5.1507	1.71
5.15815	1.73
5.1656	1.75
5.17305	1.77
5.1805	1.79
5.18795	1.80
5.1954	1.82
5.20285	1.83
5.2103	1.84
5.21775	1.84
5.2252	1.85
5.23265	1.85
5.2401	1.85
5.24755	1.85
5.255	1.84
5.26245	1.83
5.2699	1.82
5.27735	1.81
5.2848	1.79
5.29225	1.78
5.2997	1.77
5.30715	1.75
5.3146	1.73
5.32205	1.70
5.3295	1.69
5.33695	1.66
5.3444	1.64
5.35185	1.62
5.3593	1.60
5.36675	1.59
5.3742	1.58
5.38165	1.57
5.3891	1.56
5.39655	1.56
5.404	1.57
5.41145	1.57
5.4189	1.58
5.42635	1.60
5.4338	1.61
5.44125	1.63
5.4487	1.66
5.45615	1.69
5.4636	1.72
5.47105	1.75
5.4785	1.78
5.48595	1.81
5.4934	1.84
5.50085	1.88
5.5083	1.91
5.51575	1.94
5.5232	1.98
5.53065	2.01



## 2.2 FML2.4/5.2-30 測定データ(5.2GHz帯VSWR)

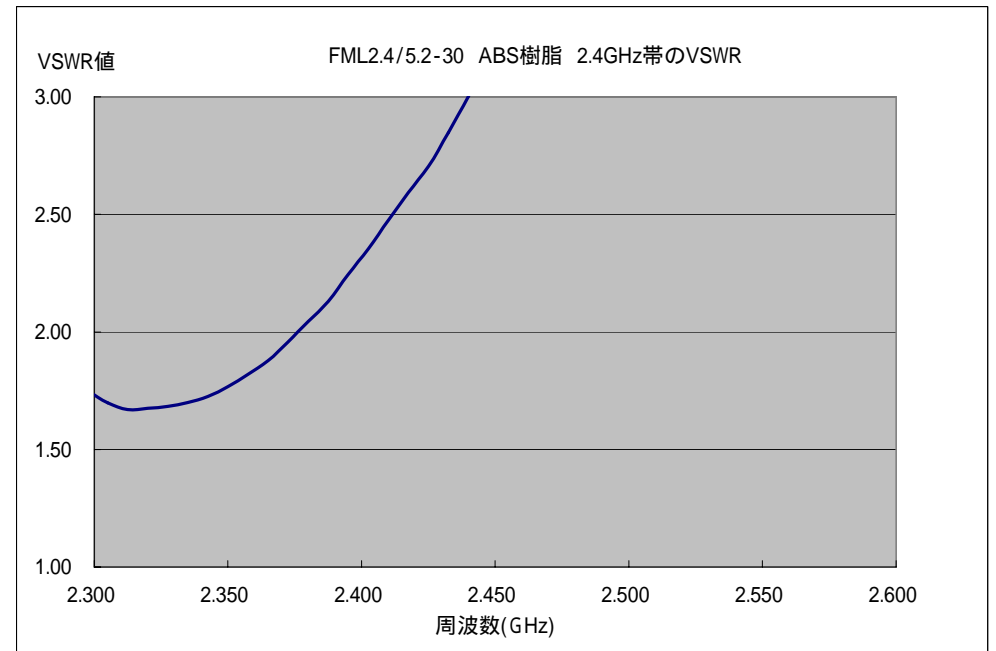
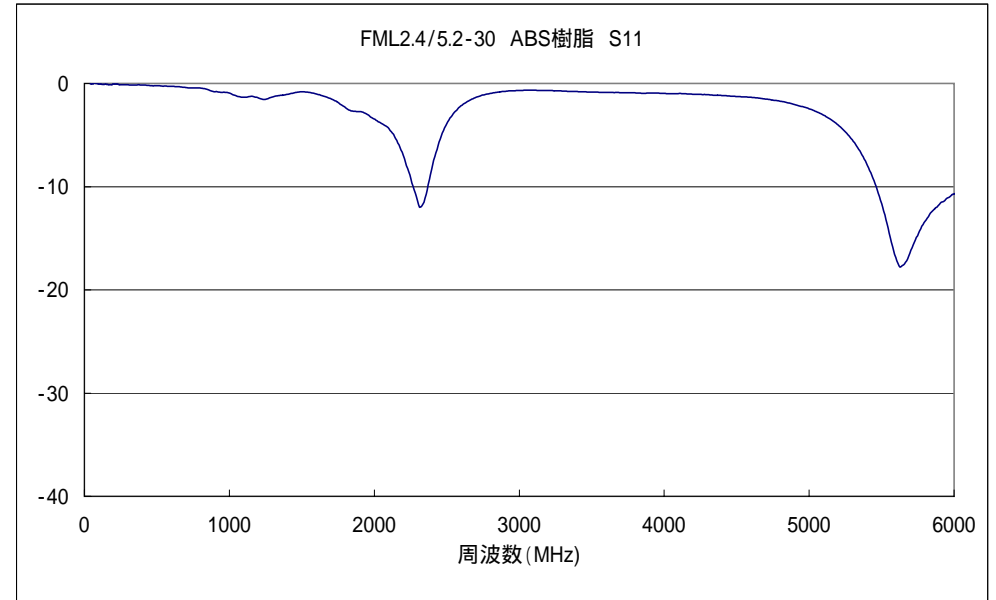
5.5381	-9.28E+00	0.344	2.05	5.538	2.05
5.54555	-9.08E+00	0.352	2.08	5.546	2.08
5.553	-8.90E+00	0.359	2.12	5.553	2.12
5.56045	-8.70E+00	0.367	2.16	5.560	2.16
5.5679	-8.57E+00	0.373	2.19	5.568	2.19
5.57535	-8.39E+00	0.381	2.23	5.575	2.23
5.5828	-8.25E+00	0.387	2.26	5.583	2.26
5.59025	-8.12E+00	0.392	2.29	5.590	2.29
5.5977	-7.99E+00	0.398	2.32	5.598	2.32
5.60515	-7.85E+00	0.405	2.36	5.605	2.36
5.6126	-7.67E+00	0.413	2.41	5.613	2.41
5.62005	-7.50E+00	0.422	2.46	5.620	2.46
5.6275	-7.36E+00	0.428	2.50	5.628	2.50
5.63495	-7.21E+00	0.436	2.55	5.635	2.55
5.6424	-7.02E+00	0.446	2.61	5.642	2.61
5.64985	-6.88E+00	0.453	2.66	5.650	2.66
5.6573	-6.77E+00	0.459	2.69	5.657	2.69
5.66475	-6.64E+00	0.466	2.74	5.665	2.74
5.6722	-6.55E+00	0.470	2.78	5.672	2.78
5.67965	-6.45E+00	0.476	2.82	5.680	2.82
5.6871	-6.39E+00	0.479	2.84	5.687	2.84
5.69455	-6.33E+00	0.482	2.86	5.695	2.86
5.702	-6.29E+00	0.485	2.88	5.702	2.88
5.70945	-6.23E+00	0.488	2.91	5.709	2.91
5.7169	-6.20E+00	0.490	2.92	5.717	2.92
5.72435	-6.15E+00	0.493	2.94	5.724	2.94
5.7318	-6.10E+00	0.495	2.96	5.732	2.96
5.73925	-6.08E+00	0.497	2.97	5.739	2.97
5.7467	-6.08E+00	0.496	2.97	5.747	2.97
5.75415	-6.05E+00	0.498	2.99	5.754	2.99
5.7616	-6.04E+00	0.499	2.99	5.762	2.99
5.76905	-6.03E+00	0.500	3.00	5.769	3.00
5.7765	-5.97E+00	0.503	3.02	5.777	3.02
5.78395	-5.95E+00	0.504	3.03	5.784	3.03
5.7914	-5.88E+00	0.508	3.07	5.791	3.07
5.79885	-5.84E+00	0.511	3.09	5.799	3.09
5.8063	-5.76E+00	0.515	3.12	5.806	3.12
5.81375	-5.70E+00	0.519	3.16	5.814	3.16
5.8212	-5.64E+00	0.522	3.19	5.821	3.19
5.82865	-5.61E+00	0.524	3.20	5.829	3.20
5.8361	-5.56E+00	0.527	3.23	5.836	3.23
5.84355	-5.55E+00	0.528	3.24	5.844	3.24
5.851	-5.57E+00	0.527	3.22	5.851	3.22
5.85845	-5.55E+00	0.528	3.23	5.858	3.23
5.8659	-5.58E+00	0.526	3.22	5.866	3.22
5.87335	-5.62E+00	0.524	3.20	5.873	3.20
5.8808	-5.67E+00	0.521	3.17	5.881	3.17
5.88825	-5.67E+00	0.521	3.17	5.888	3.17
5.8957	-5.71E+00	0.518	3.15	5.896	3.15
5.90315	-5.73E+00	0.517	3.14	5.903	3.14
5.9106	-5.75E+00	0.516	3.13	5.911	3.13
5.91805	-5.75E+00	0.516	3.13	5.918	3.13
5.9255	-5.76E+00	0.515	3.12	5.926	3.12
5.93295	-5.75E+00	0.516	3.13	5.933	3.13
5.9404	-5.76E+00	0.515	3.12	5.940	3.12
5.94785	-5.75E+00	0.516	3.13	5.948	3.13
5.9553	-5.73E+00	0.517	3.14	5.955	3.14
5.96275	-5.71E+00	0.518	3.15	5.963	3.15
5.9702	-5.66E+00	0.521	3.17	5.970	3.17
5.97765	-5.62E+00	0.524	3.20	5.978	3.20
5.9851	-5.58E+00	0.526	3.22	5.985	3.22
5.99255	-5.52E+00	0.530	3.25	5.993	3.25
6	-5.47E+00	0.533	3.28	6.000	3.28



## 2.3 FML2.4-30 (ABS樹脂)測定データ(2.4GHz帯VSWR)

2.1925	4.64E-01	2192.5	-6.67E+00	0.464	2.73
2.2	4.49E-01	2200	-6.96E+00	0.449	2.63
2.2075	4.31E-01	2207.5	-7.30E+00	0.431	2.52
2.215	4.16E-01	2215	-7.63E+00	0.416	2.42
2.2225	3.99E-01	2222.5	-7.97E+00	0.399	2.33
2.23	3.88E-01	2230	-8.23E+00	0.388	2.27
2.2375	3.75E-01	2237.5	-8.53E+00	0.375	2.20
2.245	3.60E-01	2245	-8.87E+00	0.360	2.13
2.2525	3.45E-01	2252.5	-9.24E+00	0.345	2.05
2.26	3.30E-01	2260	-9.63E+00	0.330	1.98
2.2675	3.17E-01	2267.5	-9.99E+00	0.317	1.93
2.275	3.05E-01	2275	-1.03E+01	0.305	1.88
2.2825	2.94E-01	2282.5	-1.06E+01	0.294	1.83
2.29	2.84E-01	2290	-1.09E+01	0.284	1.79
2.2975	2.72E-01	2297.5	-1.13E+01	0.272	1.75
2.305	2.59E-01	2305	-1.17E+01	0.259	1.70
2.3125	2.51E-01	2312.5	-1.20E+01	0.251	1.67
2.32	2.52E-01	2320	-1.20E+01	0.252	1.68
2.3275	2.55E-01	2327.5	-1.19E+01	0.255	1.68
2.335	2.59E-01	2335	-1.17E+01	0.259	1.70
2.3425	2.66E-01	2342.5	-1.15E+01	0.266	1.73
2.35	2.77E-01	2350	-1.11E+01	0.277	1.77
2.3575	2.91E-01	2357.5	-1.07E+01	0.291	1.82
2.365	3.05E-01	2365	-1.03E+01	0.305	1.88
2.3725	3.24E-01	2372.5	-9.80E+00	0.324	1.96
2.38	3.43E-01	2380	-9.29E+00	0.343	2.04
2.3875	3.61E-01	2387.5	-8.85E+00	0.361	2.13
2.395	3.84E-01	2395	-8.32E+00	0.384	2.24
2.4025	4.04E-01	2402.5	-7.88E+00	0.404	2.35
2.41	4.25E-01	2410	-7.44E+00	0.425	2.48
2.4175	4.43E-01	2417.5	-7.07E+00	0.443	2.59
2.425	4.60E-01	2425	-6.74E+00	0.460	2.70
2.4325	4.80E-01	2432.5	-6.37E+00	0.480	2.85
2.44	5.00E-01	2440	-6.01E+00	0.500	3.00
2.4475	5.21E-01	2447.5	-5.66E+00	0.521	3.18
2.455	5.39E-01	2455	-5.37E+00	0.539	3.34
2.4625	5.57E-01	2462.5	-5.09E+00	0.557	3.51
2.47	5.74E-01	2470	-4.82E+00	0.574	3.70
2.4775	5.93E-01	2477.5	-4.55E+00	0.593	3.91
2.485	6.10E-01	2485	-4.30E+00	0.610	4.12
2.4925	6.25E-01	2492.5	-4.09E+00	0.625	4.33
2.5	6.38E-01	2500	-3.90E+00	0.638	4.53
2.5075	6.52E-01	2507.5	-3.71E+00	0.652	4.75
2.515	6.65E-01	2515	-3.54E+00	0.665	4.97
2.5225	6.79E-01	2522.5	-3.36E+00	0.679	5.23
2.53	6.90E-01	2530	-3.23E+00	0.690	5.44
2.5375	7.00E-01	2537.5	-3.10E+00	0.700	5.67
2.545	7.13E-01	2545	-2.94E+00	0.713	5.96
2.5525	7.24E-01	2552.5	-2.81E+00	0.724	6.24
2.56	7.33E-01	2560	-2.69E+00	0.733	6.50
2.5675	7.42E-01	2567.5	-2.60E+00	0.742	6.74
2.575	7.50E-01	2575	-2.49E+00	0.750	7.01
2.5825	7.61E-01	2582.5	-2.37E+00	0.761	7.37
2.59	7.71E-01	2590	-2.26E+00	0.771	7.73
2.5975	7.78E-01	2597.5	-2.18E+00	0.778	8.01
2.605	7.85E-01	2605	-2.10E+00	0.785	8.31
2.6125	7.92E-01	2612.5	-2.02E+00	0.792	8.62
2.62	7.98E-01	2620	-1.96E+00	0.798	8.91
2.6275	8.04E-01	2627.5	-1.89E+00	0.804	9.22
2.635	8.11E-01	2635	-1.82E+00	0.811	9.58
2.6425	8.18E-01	2642.5	-1.75E+00	0.818	9.96
2.65	8.23E-01	2650	-1.70E+00	0.823	10.28

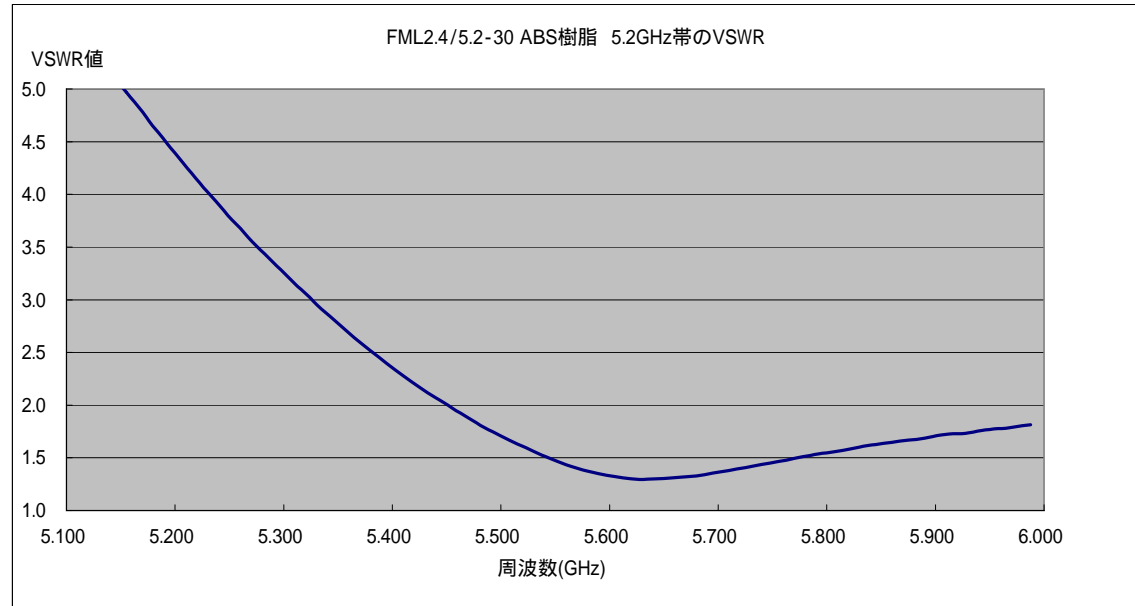
周波数(GHz)	VSWR
2.200	2.63
2.208	2.52
2.215	2.42
2.223	2.33
2.230	2.27
2.238	2.20
2.245	2.13
2.253	2.05
2.260	1.98
2.268	1.93
2.275	1.88
2.283	1.83
2.290	1.79
2.298	1.75
2.305	1.70
2.313	1.67
2.320	1.68
2.328	1.68
2.335	1.70
2.343	1.73
2.350	1.77
2.358	1.82
2.365	1.88
2.373	1.96
2.380	2.04
2.388	2.13
2.395	2.24
2.403	2.35
2.410	2.48
2.418	2.59
2.425	2.70
2.433	2.85
2.440	3.00
2.448	3.18
2.455	3.34
2.463	3.51
2.470	3.70
2.478	3.91
2.485	4.12
2.493	4.33
2.500	4.53
2.508	4.75
2.515	4.97
2.523	5.23
2.530	5.44
2.538	5.67
2.545	5.96
2.553	6.24
2.560	6.50
2.568	6.74
2.575	7.01
2.583	7.37
2.590	7.73
2.598	8.01
2.605	8.31
2.613	8.62
2.620	8.91
2.628	9.22
2.635	9.58
2.643	9.96
2.650	10.28



## 2.4 FML2.4-30 (ABS樹脂)測定データ(5.2GHz帯VSWR)

5.005	7.52E-01	5005	-2.47E+00	0.752	7.08
5.0125	7.48E-01	5012.5	-2.52E+00	0.748	6.94
5.02	7.45E-01	5020	-2.56E+00	0.745	6.84
5.0275	7.42E-01	5027.5	-2.60E+00	0.742	6.74
5.035	7.38E-01	5035	-2.64E+00	0.738	6.62
5.0425	7.33E-01	5042.5	-2.69E+00	0.733	6.50
5.05	7.30E-01	5050	-2.74E+00	0.730	6.40
5.0575	7.26E-01	5057.5	-2.78E+00	0.726	6.30
5.065	7.22E-01	5065	-2.82E+00	0.722	6.21
5.0725	7.18E-01	5072.5	-2.88E+00	0.718	6.08
5.08	7.14E-01	5080	-2.93E+00	0.714	5.99
5.0875	7.10E-01	5087.5	-2.98E+00	0.710	5.89
5.095	7.05E-01	5095	-3.03E+00	0.705	5.79
5.1025	7.01E-01	5102.5	-3.09E+00	0.701	5.69
5.11	6.96E-01	5110	-3.14E+00	0.696	5.59
5.1175	6.91E-01	5117.5	-3.21E+00	0.691	5.47
5.125	6.85E-01	5125	-3.28E+00	0.685	5.36
5.1325	6.80E-01	5132.5	-3.34E+00	0.680	5.26
5.14	6.75E-01	5140	-3.41E+00	0.675	5.16
5.1475	6.70E-01	5147.5	-3.48E+00	0.670	5.06
5.155	6.65E-01	5155	-3.54E+00	0.665	4.97
5.1625	6.60E-01	5162.5	-3.61E+00	0.660	4.88
5.17	6.54E-01	5170	-3.69E+00	0.654	4.78
5.1775	6.48E-01	5177.5	-3.77E+00	0.648	4.68
5.185	6.42E-01	5185	-3.85E+00	0.642	4.58
5.1925	6.35E-01	5192.5	-3.94E+00	0.635	4.48
5.2	6.29E-01	5200	-4.02E+00	0.629	4.39
5.2075	6.22E-01	5207.5	-4.12E+00	0.622	4.30
5.215	6.16E-01	5215	-4.21E+00	0.616	4.21
5.2225	6.09E-01	5222.5	-4.31E+00	0.609	4.11
5.23	6.02E-01	5230	-4.41E+00	0.602	4.02
5.2375	5.95E-01	5237.5	-4.51E+00	0.595	3.93
5.245	5.87E-01	5245	-4.62E+00	0.587	3.84
5.2525	5.80E-01	5252.5	-4.74E+00	0.580	3.76
5.26	5.73E-01	5260	-4.84E+00	0.573	3.68
5.2675	5.64E-01	5267.5	-4.97E+00	0.564	3.59
5.275	5.56E-01	5275	-5.09E+00	0.556	3.51
5.2825	5.49E-01	5282.5	-5.21E+00	0.549	3.44
5.29	5.41E-01	5290	-5.34E+00	0.541	3.36
5.2975	5.33E-01	5297.5	-5.46E+00	0.533	3.28
5.305	5.25E-01	5305	-5.60E+00	0.525	3.21
5.3125	5.16E-01	5312.5	-5.75E+00	0.516	3.13
5.32	5.07E-01	5320	-5.90E+00	0.507	3.06
5.3275	4.98E-01	5327.5	-6.06E+00	0.498	2.98
5.335	4.89E-01	5335	-6.22E+00	0.489	2.91
5.3425	4.80E-01	5342.5	-6.38E+00	0.480	2.84
5.35	4.70E-01	5350	-6.55E+00	0.470	2.78
5.3575	4.61E-01	5357.5	-6.73E+00	0.461	2.71
5.365	4.50E-01	5365	-6.93E+00	0.450	2.64
5.3725	4.41E-01	5372.5	-7.12E+00	0.441	2.58
5.38	4.31E-01	5380	-7.30E+00	0.431	2.52
5.3875	4.21E-01	5387.5	-7.51E+00	0.421	2.46
5.395	4.11E-01	5395	-7.73E+00	0.411	2.39
5.4025	4.00E-01	5402.5	-7.95E+00	0.400	2.34
5.41	3.90E-01	5410	-8.18E+00	0.390	2.28
5.4175	3.79E-01	5417.5	-8.42E+00	0.379	2.22
5.425	3.69E-01	5425	-8.65E+00	0.369	2.17
5.4325	3.59E-01	5432.5	-8.91E+00	0.359	2.12
5.44	3.48E-01	5440	-9.16E+00	0.348	2.07
5.4475	3.38E-01	5447.5	-9.42E+00	0.338	2.02
5.455	3.27E-01	5455	-9.72E+00	0.327	1.97
5.4625	3.16E-01	5462.5	-1.00E+01	0.316	1.92
5.47	3.05E-01	5470	-1.03E+01	0.305	1.88
5.4775	2.94E-01	5477.5	-1.06E+01	0.294	1.83
5.485	2.83E-01	5485	-1.10E+01	0.283	1.79
5.4925	2.72E-01	5492.5	-1.13E+01	0.272	1.75
5.5	2.62E-01	5500	-1.16E+01	0.262	1.71
5.5075	2.51E-01	5507.5	-1.20E+01	0.251	1.67
5.515	2.40E-01	5515	-1.24E+01	0.240	1.63

周波数(GHz)	VSWR
5.013	6.94
5.020	6.84
5.028	6.74
5.035	6.62
5.043	6.50
5.050	6.40
5.058	6.30
5.065	6.21
5.073	6.08
5.080	5.99
5.088	5.89
5.095	5.79
5.103	5.69
5.110	5.59
5.118	5.47
5.125	5.36
5.133	5.26
5.140	5.16
5.148	5.06
5.155	4.97
5.163	4.88
5.170	4.78
5.178	4.68
5.185	4.58
5.193	4.48
5.200	4.39
5.208	4.30
5.215	4.21
5.223	4.11
5.230	4.02
5.238	3.93
5.245	3.84
5.253	3.76
5.260	3.68
5.268	3.59
5.275	3.51
5.283	3.44
5.290	3.36
5.298	3.28
5.305	3.21
5.313	3.13
5.320	3.06
5.328	2.98
5.335	2.91
5.343	2.84
5.350	2.78
5.358	2.71
5.365	2.64
5.373	2.58
5.380	2.52
5.388	2.46
5.395	2.39
5.403	2.34
5.410	2.28
5.418	2.22
5.425	2.17
5.433	2.12
5.440	2.07
5.448	2.02
5.455	1.97
5.463	1.92
5.470	1.88
5.478	1.83
5.485	1.79
5.493	1.75
5.500	1.71
5.508	1.67
5.515	1.63

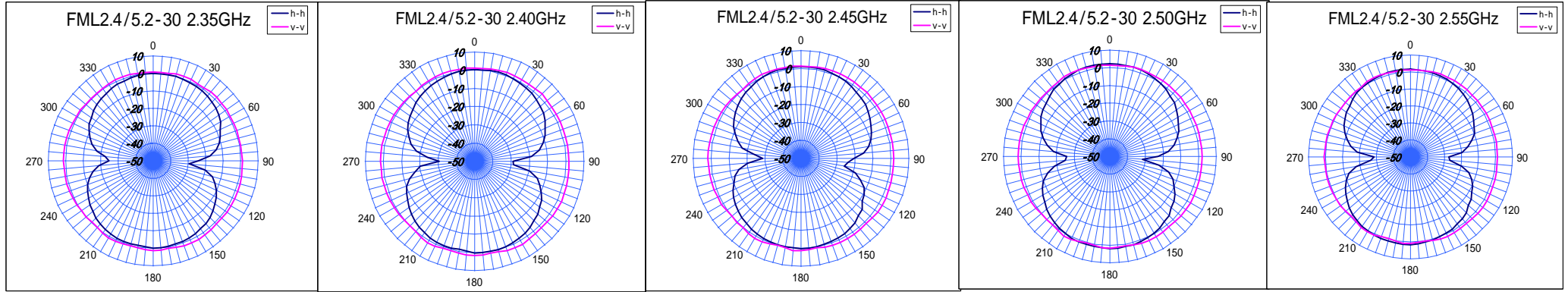


## 2.4 FML2.4-30 (ABS樹脂)測定データ(5.2GHz帯VSWR)

5.5225	2.31E-01	5522.5	-1.27E+01	0.231	1.60	5.523	1.60
5.53	2.20E-01	5530	-1.32E+01	0.220	1.56	5.530	1.56
5.5375	2.08E-01	5537.5	-1.36E+01	0.208	1.53	5.538	1.53
5.545	1.99E-01	5545	-1.40E+01	0.199	1.50	5.545	1.50
5.5525	1.89E-01	5552.5	-1.45E+01	0.189	1.46	5.553	1.46
5.56	1.79E-01	5560	-1.50E+01	0.179	1.43	5.560	1.43
5.5675	1.70E-01	5567.5	-1.54E+01	0.170	1.41	5.568	1.41
5.575	1.62E-01	5575	-1.58E+01	0.162	1.39	5.575	1.39
5.5825	1.55E-01	5582.5	-1.62E+01	0.155	1.37	5.583	1.37
5.59	1.49E-01	5590	-1.66E+01	0.149	1.35	5.590	1.35
5.5975	1.44E-01	5597.5	-1.69E+01	0.144	1.34	5.598	1.34
5.605	1.38E-01	5605	-1.72E+01	0.138	1.32	5.605	1.32
5.6125	1.34E-01	5612.5	-1.75E+01	0.134	1.31	5.613	1.31
5.62	1.31E-01	5620	-1.77E+01	0.131	1.30	5.620	1.30
5.6275	1.29E-01	5627.5	-1.78E+01	0.129	1.30	5.628	1.30
5.635	1.30E-01	5635	-1.77E+01	0.130	1.30	5.635	1.30
5.6425	1.31E-01	5642.5	-1.77E+01	0.131	1.30	5.643	1.30
5.65	1.32E-01	5650	-1.76E+01	0.132	1.30	5.650	1.30
5.6575	1.34E-01	5657.5	-1.75E+01	0.134	1.31	5.658	1.31
5.665	1.36E-01	5665	-1.73E+01	0.136	1.31	5.665	1.31
5.6725	1.38E-01	5672.5	-1.72E+01	0.138	1.32	5.673	1.32
5.68	1.41E-01	5680	-1.70E+01	0.141	1.33	5.680	1.33
5.6875	1.45E-01	5687.5	-1.67E+01	0.145	1.34	5.688	1.34
5.695	1.51E-01	5695	-1.64E+01	0.151	1.35	5.695	1.35
5.7025	1.56E-01	5702.5	-1.62E+01	0.156	1.37	5.703	1.37
5.71	1.60E-01	5710	-1.59E+01	0.160	1.38	5.710	1.38
5.7175	1.65E-01	5717.5	-1.57E+01	0.165	1.39	5.718	1.39
5.725	1.69E-01	5725	-1.54E+01	0.169	1.41	5.725	1.41
5.7325	1.75E-01	5732.5	-1.52E+01	0.175	1.42	5.733	1.42
5.74	1.79E-01	5740	-1.49E+01	0.179	1.44	5.740	1.44
5.7475	1.83E-01	5747.5	-1.47E+01	0.183	1.45	5.748	1.45
5.755	1.88E-01	5755	-1.45E+01	0.188	1.46	5.755	1.46
5.7625	1.93E-01	5762.5	-1.43E+01	0.193	1.48	5.763	1.48
5.77	1.98E-01	5770	-1.41E+01	0.198	1.49	5.770	1.49
5.7775	2.03E-01	5777.5	-1.38E+01	0.203	1.51	5.778	1.51
5.785	2.07E-01	5785	-1.37E+01	0.207	1.52	5.785	1.52
5.7925	2.12E-01	5792.5	-1.35E+01	0.212	1.54	5.793	1.54
5.8	2.15E-01	5800	-1.34E+01	0.215	1.55	5.800	1.55
5.8075	2.19E-01	5807.5	-1.32E+01	0.219	1.56	5.808	1.56
5.815	2.22E-01	5815	-1.31E+01	0.222	1.57	5.815	1.57
5.8225	2.27E-01	5822.5	-1.29E+01	0.227	1.59	5.823	1.59
5.83	2.31E-01	5830	-1.27E+01	0.231	1.60	5.830	1.60
5.8375	2.36E-01	5837.5	-1.26E+01	0.236	1.62	5.838	1.62
5.845	2.39E-01	5845	-1.24E+01	0.239	1.63	5.845	1.63
5.8525	2.41E-01	5852.5	-1.23E+01	0.241	1.64	5.853	1.64
5.86	2.45E-01	5860	-1.22E+01	0.245	1.65	5.860	1.65
5.8675	2.48E-01	5867.5	-1.21E+01	0.248	1.66	5.868	1.66
5.875	2.50E-01	5875	-1.20E+01	0.250	1.67	5.875	1.67
5.8825	2.52E-01	5882.5	-1.20E+01	0.252	1.68	5.883	1.68
5.89	2.56E-01	5890	-1.18E+01	0.256	1.69	5.890	1.69
5.8975	2.59E-01	5897.5	-1.17E+01	0.259	1.70	5.898	1.70
5.905	2.63E-01	5905	-1.16E+01	0.263	1.72	5.905	1.72
5.9125	2.66E-01	5912.5	-1.15E+01	0.266	1.72	5.913	1.72
5.92	2.67E-01	5920	-1.15E+01	0.267	1.73	5.920	1.73
5.9275	2.68E-01	5927.5	-1.14E+01	0.268	1.73	5.928	1.73
5.935	2.71E-01	5935	-1.13E+01	0.271	1.74	5.935	1.74
5.9425	2.75E-01	5942.5	-1.12E+01	0.275	1.76	5.943	1.76
5.95	2.78E-01	5950	-1.11E+01	0.278	1.77	5.950	1.77
5.9575	2.80E-01	5957.5	-1.11E+01	0.280	1.78	5.958	1.78
5.965	2.80E-01	5965	-1.10E+01	0.280	1.78	5.965	1.78
5.9725	2.84E-01	5972.5	-1.09E+01	0.284	1.79	5.973	1.79
5.98	2.87E-01	5980	-1.08E+01	0.287	1.81	5.980	1.81
5.9875	2.90E-01	5987.5	-1.08E+01	0.290	1.81	5.988	1.81

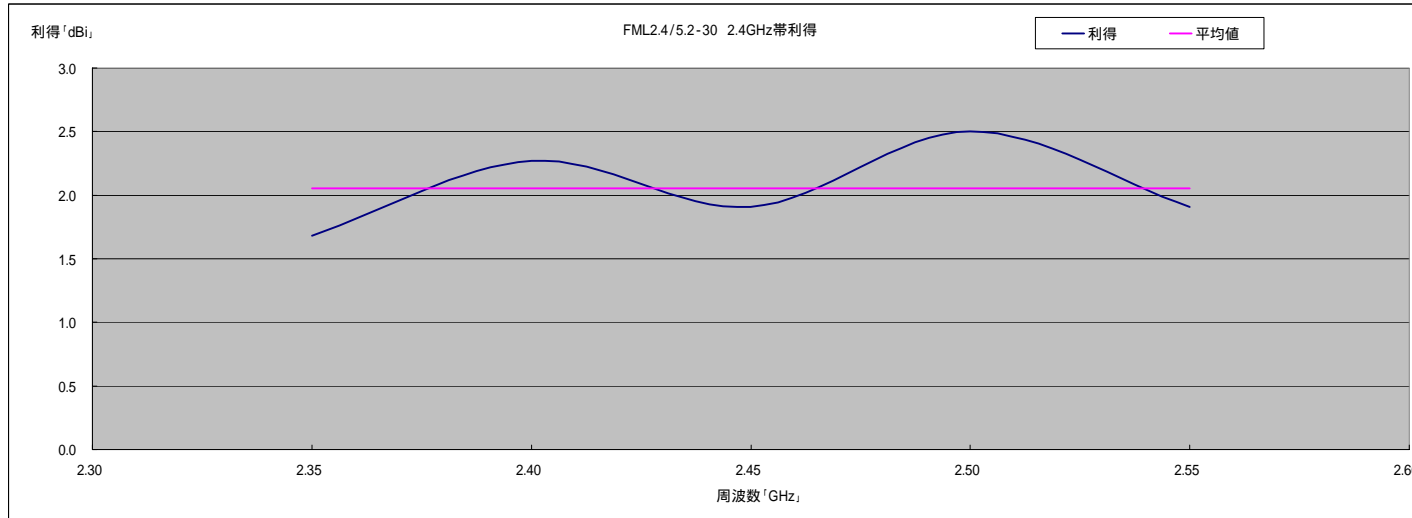
2.5 FML2.4/5.2-30測定データ(2.4GHz帯放射パターン・利得)

1. 放射パターン

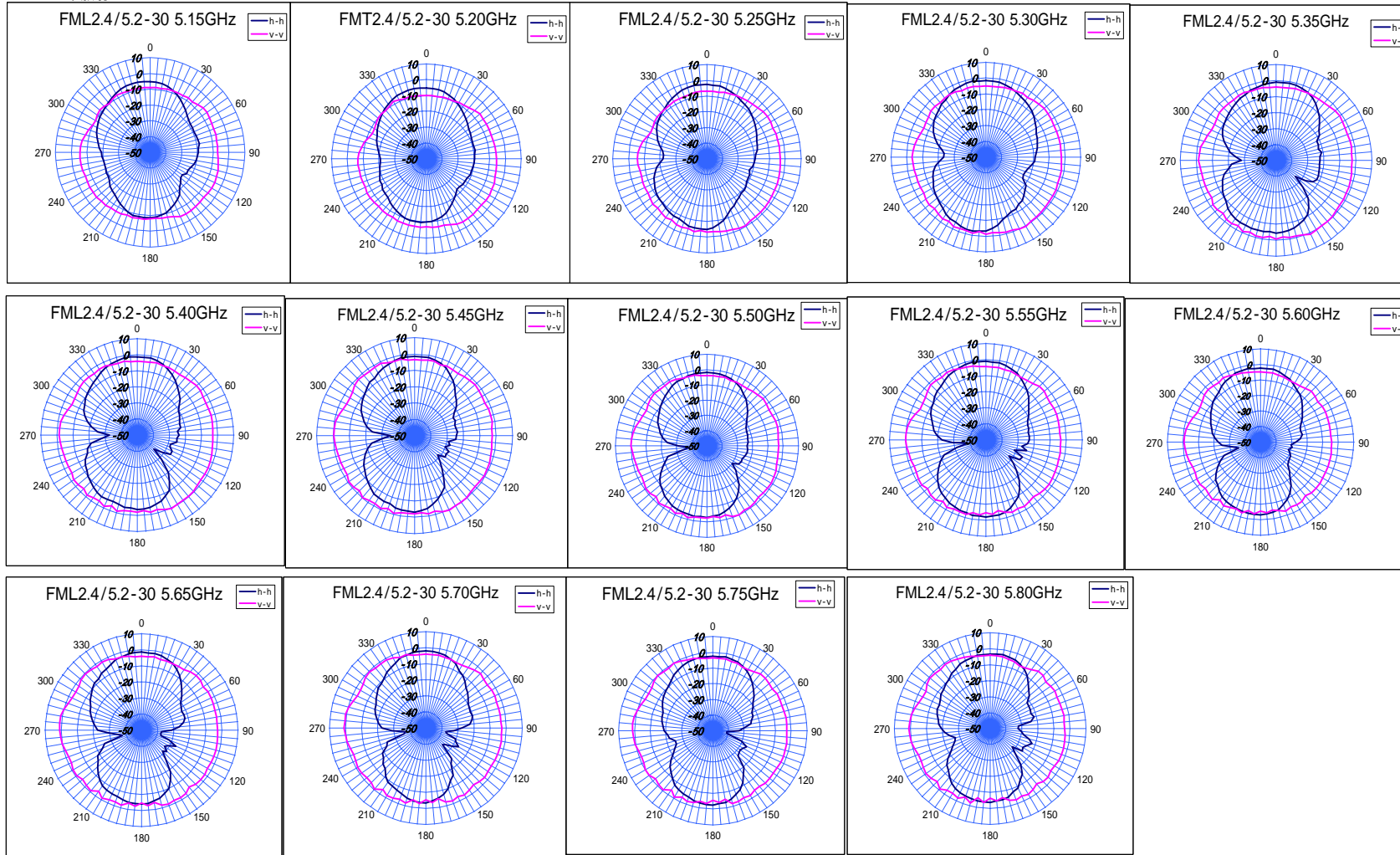


2. 2.4GHz帯利得

周波数 [GHz]	利得	平均値
2.35	1.68	2.05
2.40	2.27	2.05
2.45	1.91	2.05
2.50	2.50	2.05
2.55	1.91	2.05

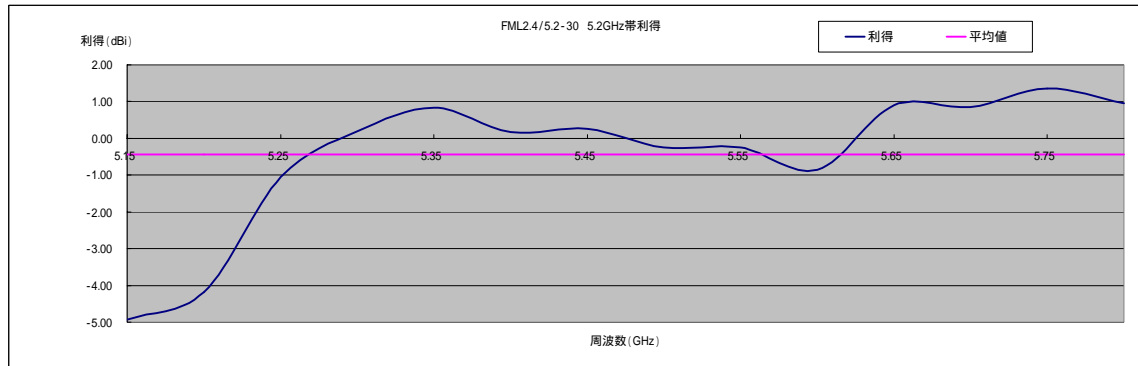


2.6 FML2.4/5.2-30測定データ(5.2GHz帯放射パターン・利得)  
 1. 5.2GHz帯放射パターン



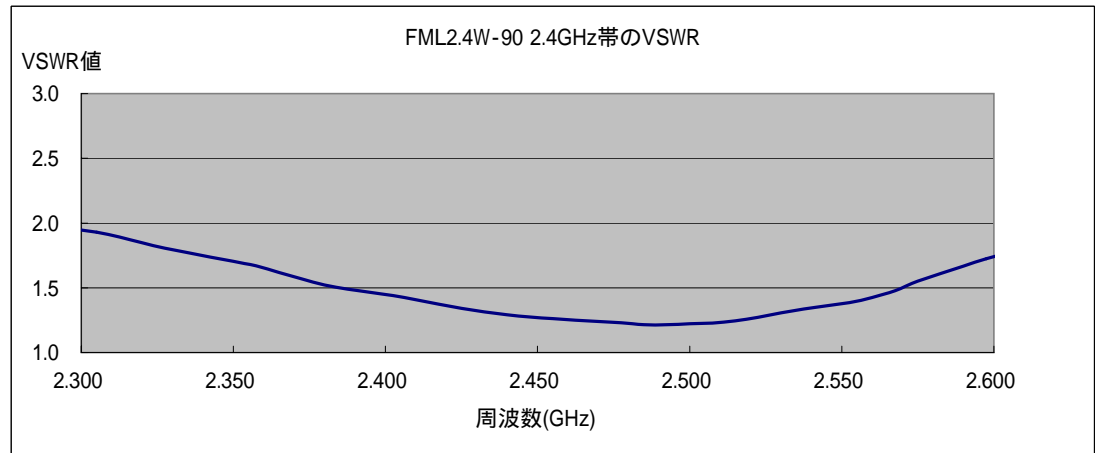
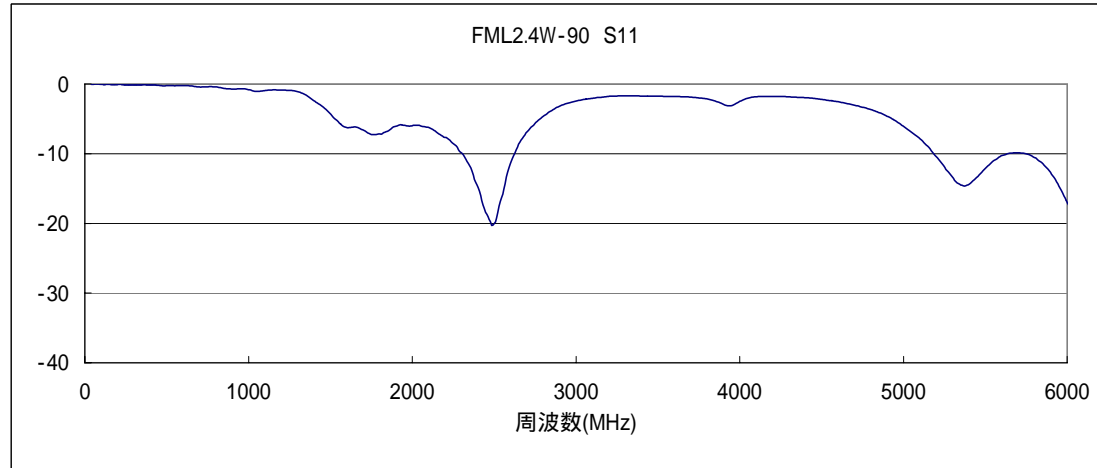
2. 5.2GHz帯利得

周波数 [GHz]	利得	平均値
5.15	-4.93	-0.43
5.20	-4.19	-0.43
5.25	-1.05	-0.43
5.30	0.19	-0.43
5.35	0.83	-0.43
5.40	0.17	-0.43
5.45	0.26	-0.43
5.50	-0.25	-0.43
5.55	-0.25	-0.43
5.60	-0.85	-0.43
5.65	0.90	-0.43
5.70	0.85	-0.43
5.75	1.35	-0.43
5.80	0.95	-0.43



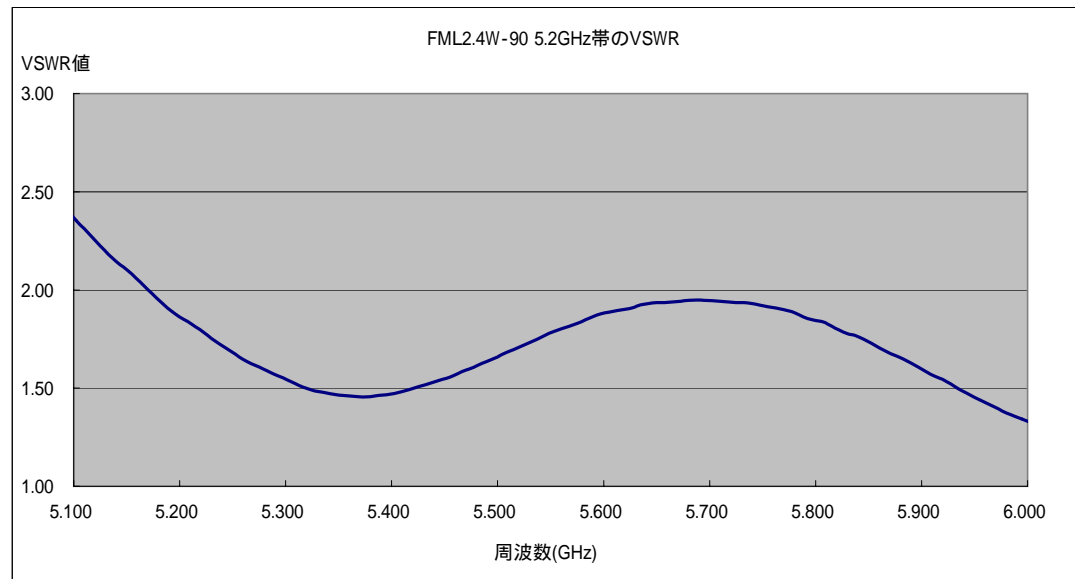
## 2.7 FML2.4W-90測定データ(2.4GHz帯VSWR)

2.1925	4.16E-01	2192.5	-7.61E+00	0.416	2.43	2.200	2.42
2.2	4.14E-01	2200	-7.65E+00	0.414	2.42	2.208	2.40
2.2075	4.12E-01	2207.5	-7.69E+00	0.412	2.40	2.215	2.37
2.215	4.07E-01	2215	-7.81E+00	0.407	2.37	2.223	2.34
2.2225	4.01E-01	2222.5	-7.95E+00	0.401	2.34	2.230	2.30
2.23	3.94E-01	2230	-8.08E+00	0.394	2.30	2.238	2.26
2.2375	3.86E-01	2237.5	-8.26E+00	0.386	2.26	2.245	2.22
2.245	3.78E-01	2245	-8.45E+00	0.378	2.22	2.253	2.18
2.2525	3.71E-01	2252.5	-8.60E+00	0.371	2.18	2.260	2.16
2.26	3.66E-01	2260	-8.73E+00	0.366	2.16	2.268	2.13
2.2675	3.60E-01	2267.5	-8.86E+00	0.360	2.13	2.275	2.09
2.275	3.52E-01	2275	-9.07E+00	0.352	2.09	2.283	2.02
2.2825	3.38E-01	2282.5	-9.41E+00	0.338	2.02	2.290	1.98
2.29	3.28E-01	2290	-9.68E+00	0.328	1.98	2.298	1.95
2.2975	3.23E-01	2297.5	-9.82E+00	0.323	1.95	2.305	1.93
2.305	3.17E-01	2305	-9.97E+00	0.317	1.93	2.313	1.89
2.3125	3.08E-01	2312.5	-1.02E+01	0.308	1.89	2.320	1.85
2.32	2.98E-01	2320	-1.05E+01	0.298	1.85	2.328	1.81
2.3275	2.87E-01	2327.5	-1.08E+01	0.287	1.81	2.335	1.77
2.335	2.78E-01	2335	-1.11E+01	0.278	1.77	2.343	1.74
2.3425	2.69E-01	2342.5	-1.14E+01	0.269	1.74	2.350	1.70
2.35	2.60E-01	2350	-1.17E+01	0.260	1.70	2.358	1.67
2.3575	2.51E-01	2357.5	-1.20E+01	0.251	1.67	2.365	1.62
2.365	2.36E-01	2365	-1.25E+01	0.236	1.62	2.373	1.57
2.3725	2.22E-01	2372.5	-1.31E+01	0.222	1.57	2.380	1.52
2.38	2.07E-01	2380	-1.37E+01	0.207	1.52	2.388	1.49
2.3875	1.97E-01	2387.5	-1.41E+01	0.197	1.49	2.395	1.47
2.395	1.89E-01	2395	-1.45E+01	0.189	1.47	2.403	1.44
2.4025	1.80E-01	2402.5	-1.49E+01	0.180	1.44	2.410	1.41
2.41	1.70E-01	2410	-1.54E+01	0.170	1.41	2.418	1.37
2.4175	1.58E-01	2417.5	-1.60E+01	0.158	1.37	2.425	1.34
2.425	1.46E-01	2425	-1.67E+01	0.146	1.34	2.433	1.31
2.4325	1.36E-01	2432.5	-1.73E+01	0.136	1.31	2.440	1.29
2.44	1.28E-01	2440	-1.79E+01	0.128	1.29	2.448	1.27
2.4475	1.20E-01	2447.5	-1.84E+01	0.120	1.27	2.455	1.26
2.455	1.16E-01	2455	-1.87E+01	0.116	1.26	2.463	1.25
2.4625	1.11E-01	2462.5	-1.91E+01	0.111	1.25	2.470	1.24
2.47	1.07E-01	2470	-1.94E+01	0.107	1.24	2.478	1.23
2.4775	1.03E-01	2477.5	-1.97E+01	0.103	1.23	2.485	1.21
2.485	9.69E-02	2485	-2.03E+01	0.097	1.21	2.493	1.22
2.4925	9.72E-02	2492.5	-2.02E+01	0.097	1.22	2.500	1.22
2.5	9.99E-02	2500	-2.00E+01	0.100	1.22	2.508	1.23
2.5075	1.02E-01	2507.5	-1.98E+01	0.102	1.23	2.515	1.24
2.515	1.09E-01	2515	-1.93E+01	0.109	1.24	2.523	1.27
2.5225	1.19E-01	2522.5	-1.85E+01	0.119	1.27	2.530	1.31
2.53	1.33E-01	2530	-1.75E+01	0.133	1.31	2.538	1.34
2.5375	1.44E-01	2537.5	-1.68E+01	0.144	1.34	2.545	1.36
2.545	1.53E-01	2545	-1.63E+01	0.153	1.36	2.553	1.39
2.5525	1.62E-01	2552.5	-1.58E+01	0.162	1.39	2.560	1.43
2.56	1.75E-01	2560	-1.51E+01	0.175	1.43	2.568	1.48
2.5675	1.92E-01	2567.5	-1.43E+01	0.192	1.48	2.575	1.55
2.575	2.16E-01	2575	-1.33E+01	0.216	1.55	2.583	1.61
2.5825	2.34E-01	2582.5	-1.26E+01	0.234	1.61	2.590	1.67
2.59	2.50E-01	2590	-1.20E+01	0.250	1.67	2.598	1.73
2.5975	2.66E-01	2597.5	-1.15E+01	0.266	1.73	2.605	1.77
2.605	2.79E-01	2605	-1.11E+01	0.279	1.77	2.613	1.83
2.6125	2.93E-01	2612.5	-1.07E+01	0.293	1.83	2.620	1.89
2.62	3.07E-01	2620	-1.03E+01	0.307	1.89	2.628	1.95
2.6275	3.22E-01	2627.5	-9.85E+00	0.322	1.95	2.635	2.02
2.635	3.39E-01	2635	-9.41E+00	0.339	2.02	2.643	2.09
2.6425	3.53E-01	2642.5	-9.05E+00	0.353	2.09	2.650	2.17
2.65	3.69E-01	2650	-8.66E+00	0.369	2.17		



## 2.8 FML2.4W-90測定データ(5.2GHz帯VSWR)

周波数(GHz)	VSWR
5.005	2.94
5.0125	2.88
5.02	2.83
5.0275	2.77
5.035	2.73
5.0425	2.69
5.05	2.64
5.0575	2.60
5.065	2.55
5.0725	2.51
5.08	2.47
5.0875	2.43
5.095	2.40
5.1025	2.35
5.11	2.31
5.1175	2.27
5.125	2.22
5.1325	2.18
5.14	2.15
5.1475	2.12
5.155	2.08
5.1625	2.04
5.17	2.00
5.1775	1.96
5.185	1.93
5.1925	1.89
5.2	1.86
5.2075	1.84
5.215	1.81
5.2225	1.78
5.23	1.75
5.2375	1.73
5.245	1.70
5.2525	1.67
5.26	1.64
5.2675	1.63
5.275	1.61
5.2825	1.59
5.29	1.57
5.2975	1.55
5.305	1.53
5.3125	1.51
5.32	1.50
5.3275	1.49
5.335	1.48
5.3425	1.47
5.35	1.46
5.3575	1.46
5.365	1.46
5.3725	1.46
5.38	1.46
5.3875	1.46
5.395	1.47
5.4025	1.47
5.41	1.48
5.4175	1.49
5.425	1.51
5.4325	1.52
5.44	1.53
5.4475	1.54
5.455	1.56
5.4625	1.57
5.47	1.59
5.4775	1.61
5.485	1.63
5.4925	1.64
5.5	1.66
5.5075	1.68
5.515	1.70
5.5225	1.71



## 2.8 FML2.4W-90測定データ(5.2GHz帯VSWR)

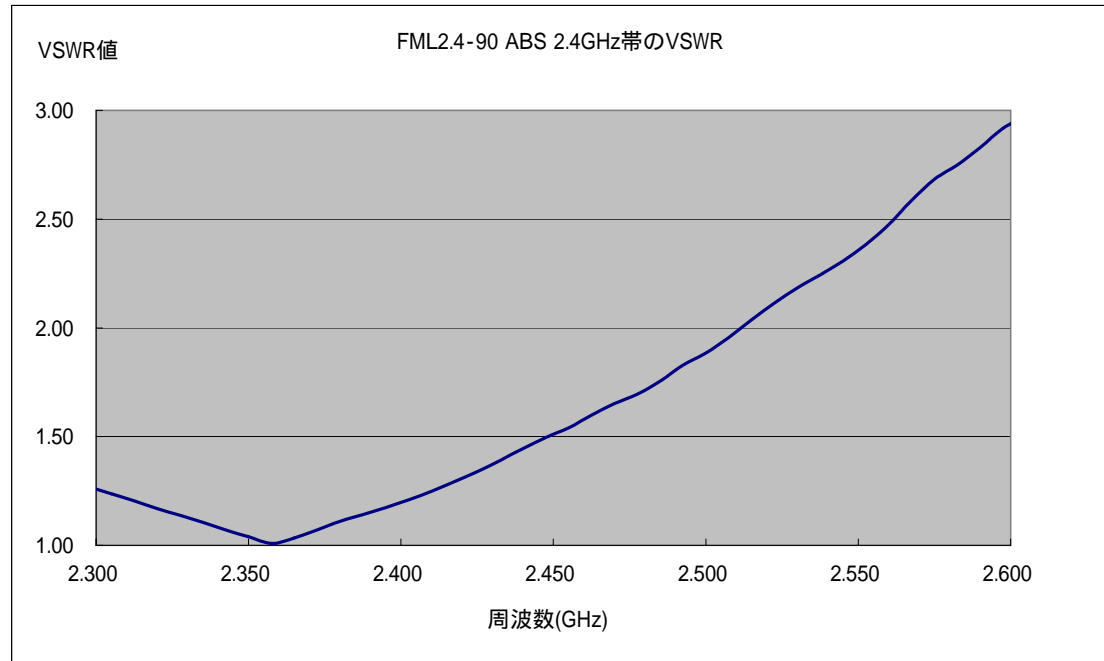
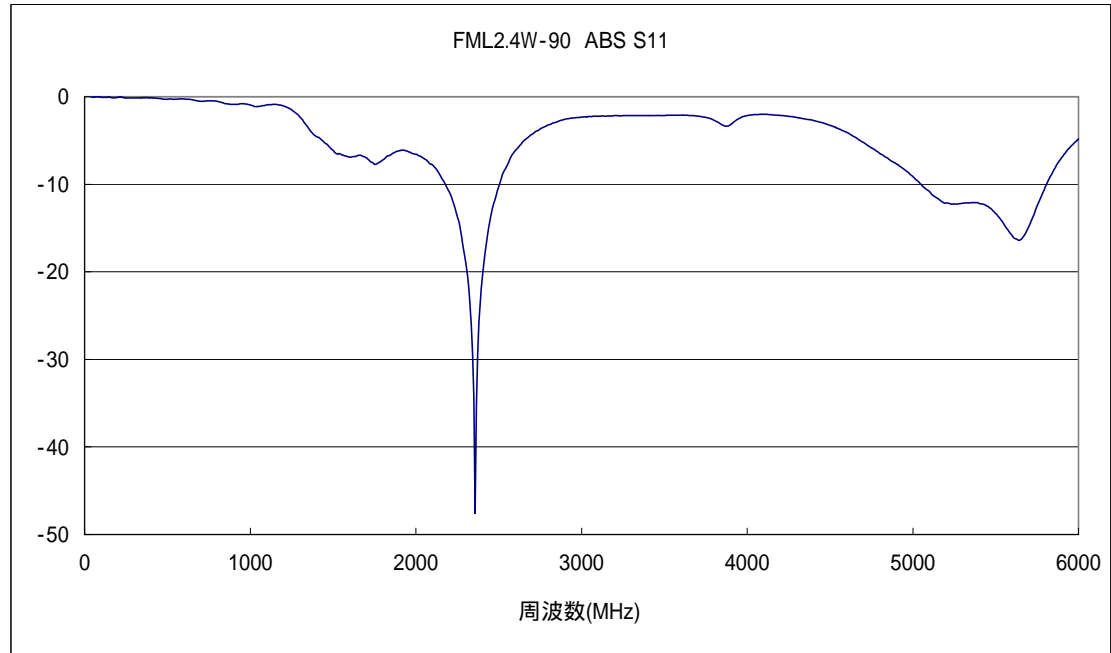
5.53	2.68E-01	5530	-1.14E+01	0.268	1.73	5.530	1.73
5.5375	2.73E-01	5537.5	-1.13E+01	0.273	1.75	5.538	1.75
5.545	2.78E-01	5545	-1.11E+01	0.278	1.77	5.545	1.77
5.5525	2.82E-01	5552.5	-1.10E+01	0.282	1.79	5.553	1.79
5.56	2.86E-01	5560	-1.09E+01	0.286	1.80	5.560	1.80
5.5675	2.89E-01	5567.5	-1.08E+01	0.289	1.81	5.568	1.81
5.575	2.93E-01	5575	-1.07E+01	0.293	1.83	5.575	1.83
5.5825	2.98E-01	5582.5	-1.05E+01	0.298	1.85	5.583	1.85
5.59	3.02E-01	5590	-1.04E+01	0.302	1.86	5.590	1.86
5.5975	3.05E-01	5597.5	-1.03E+01	0.305	1.88	5.598	1.88
5.605	3.07E-01	5605	-1.03E+01	0.307	1.89	5.605	1.89
5.6125	3.09E-01	5612.5	-1.02E+01	0.309	1.89	5.613	1.89
5.62	3.11E-01	5620	-1.02E+01	0.311	1.90	5.620	1.90
5.6275	3.13E-01	5627.5	-1.01E+01	0.313	1.91	5.628	1.91
5.635	3.16E-01	5635	-1.00E+01	0.316	1.92	5.635	1.92
5.6425	3.17E-01	5642.5	-9.97E+00	0.317	1.93	5.643	1.93
5.65	3.19E-01	5650	-9.93E+00	0.319	1.94	5.650	1.94
5.6575	3.19E-01	5657.5	-9.93E+00	0.319	1.94	5.658	1.94
5.665	3.20E-01	5665	-9.91E+00	0.320	1.94	5.665	1.94
5.6725	3.20E-01	5672.5	-9.89E+00	0.320	1.94	5.673	1.94
5.68	3.21E-01	5680	-9.86E+00	0.321	1.95	5.680	1.95
5.6875	3.22E-01	5687.5	-9.85E+00	0.322	1.95	5.688	1.95
5.695	3.21E-01	5695	-9.86E+00	0.321	1.95	5.695	1.95
5.7025	3.21E-01	5702.5	-9.87E+00	0.321	1.95	5.703	1.95
5.71	3.20E-01	5710	-9.89E+00	0.320	1.94	5.710	1.94
5.7175	3.19E-01	5717.5	-9.91E+00	0.319	1.94	5.718	1.94
5.725	3.19E-01	5725	-9.93E+00	0.319	1.94	5.725	1.94
5.7325	3.19E-01	5732.5	-9.93E+00	0.319	1.94	5.733	1.94
5.74	3.18E-01	5740	-9.96E+00	0.318	1.93	5.740	1.93
5.7475	3.16E-01	5747.5	-1.00E+01	0.316	1.92	5.748	1.92
5.755	3.14E-01	5755	-1.01E+01	0.314	1.91	5.755	1.91
5.7625	3.12E-01	5762.5	-1.01E+01	0.312	1.91	5.763	1.91
5.77	3.10E-01	5770	-1.02E+01	0.310	1.90	5.770	1.90
5.7775	3.08E-01	5777.5	-1.02E+01	0.308	1.89	5.778	1.89
5.785	3.04E-01	5785	-1.04E+01	0.304	1.87	5.785	1.87
5.7925	2.99E-01	5792.5	-1.05E+01	0.299	1.85	5.793	1.85
5.8	2.97E-01	5800	-1.05E+01	0.297	1.84	5.800	1.84
5.8075	2.95E-01	5807.5	-1.06E+01	0.295	1.84	5.808	1.84
5.815	2.90E-01	5815	-1.08E+01	0.290	1.82	5.815	1.82
5.8225	2.85E-01	5822.5	-1.09E+01	0.285	1.80	5.823	1.80
5.83	2.80E-01	5830	-1.11E+01	0.280	1.78	5.830	1.78
5.8375	2.77E-01	5837.5	-1.11E+01	0.277	1.77	5.838	1.77
5.845	2.73E-01	5845	-1.13E+01	0.273	1.75	5.845	1.75
5.8525	2.67E-01	5852.5	-1.15E+01	0.267	1.73	5.853	1.73
5.86	2.61E-01	5860	-1.17E+01	0.261	1.71	5.860	1.71
5.8675	2.55E-01	5867.5	-1.19E+01	0.255	1.69	5.868	1.69
5.875	2.50E-01	5875	-1.20E+01	0.250	1.67	5.875	1.67
5.8825	2.45E-01	5882.5	-1.22E+01	0.245	1.65	5.883	1.65
5.89	2.39E-01	5890	-1.24E+01	0.239	1.63	5.890	1.63
5.8975	2.32E-01	5897.5	-1.27E+01	0.232	1.60	5.898	1.60
5.905	2.25E-01	5905	-1.29E+01	0.225	1.58	5.905	1.58
5.9125	2.19E-01	5912.5	-1.32E+01	0.219	1.56	5.913	1.56
5.92	2.14E-01	5920	-1.34E+01	0.214	1.54	5.920	1.54
5.9275	2.07E-01	5927.5	-1.37E+01	0.207	1.52	5.928	1.52
5.935	1.99E-01	5935	-1.40E+01	0.199	1.50	5.935	1.50
5.9425	1.92E-01	5942.5	-1.43E+01	0.192	1.47	5.943	1.47
5.95	1.85E-01	5950	-1.47E+01	0.185	1.45	5.950	1.45
5.9575	1.78E-01	5957.5	-1.50E+01	0.178	1.43	5.958	1.43
5.965	1.72E-01	5965	-1.53E+01	0.172	1.41	5.965	1.41
5.9725	1.64E-01	5972.5	-1.57E+01	0.164	1.39	5.973	1.39
5.98	1.57E-01	5980	-1.61E+01	0.157	1.37	5.980	1.37
5.9875	1.52E-01	5987.5	-1.64E+01	0.152	1.36	5.988	1.36
5.995	1.46E-01	5995	-1.67E+01	0.146	1.34	5.995	1.34
6.0025	1.40E-01	6002.5	-1.71E+01	0.140	1.33	6.003	1.33



## 2.9 FML2.4W-90 (ABS)測定データ(2.4GHz帯VSWR)

2.1925	2.95E-01	2192.5	-1.06E+01	0.295	1.84
2.2	2.87E-01	2200	-1.08E+01	0.287	1.80
2.2075	2.80E-01	2207.5	-1.11E+01	0.280	1.78
2.215	2.68E-01	2215	-1.14E+01	0.268	1.73
2.2225	2.53E-01	2222.5	-1.19E+01	0.253	1.68
2.23	2.42E-01	2230	-1.23E+01	0.242	1.64
2.2375	2.28E-01	2237.5	-1.28E+01	0.228	1.59
2.245	2.14E-01	2245	-1.34E+01	0.214	1.54
2.2525	2.02E-01	2252.5	-1.39E+01	0.202	1.51
2.26	1.92E-01	2260	-1.43E+01	0.192	1.48
2.2675	1.79E-01	2267.5	-1.50E+01	0.179	1.44
2.275	1.62E-01	2275	-1.58E+01	0.162	1.39
2.2825	1.44E-01	2282.5	-1.68E+01	0.144	1.34
2.29	1.30E-01	2290	-1.77E+01	0.130	1.30
2.2975	1.18E-01	2297.5	-1.85E+01	0.118	1.27
2.305	1.06E-01	2305	-1.95E+01	0.106	1.24
2.3125	9.30E-02	2312.5	-2.06E+01	0.093	1.21
2.32	7.82E-02	2320	-2.21E+01	0.078	1.17
2.3275	6.47E-02	2327.5	-2.38E+01	0.065	1.14
2.335	5.01E-02	2335	-2.60E+01	0.050	1.11
2.3425	3.44E-02	2342.5	-2.93E+01	0.034	1.07
2.35	1.94E-02	2350	-3.43E+01	0.019	1.04
2.3575	4.18E-03	2357.5	-4.76E+01	0.004	1.01
2.365	1.70E-02	2365	-3.54E+01	0.017	1.03
2.3725	3.39E-02	2372.5	-2.94E+01	0.034	1.07
2.38	5.21E-02	2380	-2.57E+01	0.052	1.11
2.3875	6.62E-02	2387.5	-2.36E+01	0.066	1.14
2.395	7.96E-02	2395	-2.20E+01	0.080	1.17
2.4025	9.46E-02	2402.5	-2.05E+01	0.095	1.21
2.41	1.11E-01	2410	-1.91E+01	0.111	1.25
2.4175	1.28E-01	2417.5	-1.79E+01	0.128	1.29
2.425	1.45E-01	2425	-1.68E+01	0.145	1.34
2.4325	1.63E-01	2432.5	-1.58E+01	0.163	1.39
2.44	1.82E-01	2440	-1.48E+01	0.182	1.45
2.4475	1.99E-01	2447.5	-1.40E+01	0.199	1.50
2.455	2.13E-01	2455	-1.34E+01	0.213	1.54
2.4625	2.31E-01	2462.5	-1.27E+01	0.231	1.60
2.47	2.46E-01	2470	-1.22E+01	0.246	1.65
2.4775	2.58E-01	2477.5	-1.18E+01	0.258	1.70
2.485	2.74E-01	2485	-1.12E+01	0.274	1.75
2.4925	2.93E-01	2492.5	-1.07E+01	0.293	1.83
2.5	3.07E-01	2500	-1.03E+01	0.307	1.88
2.5075	3.23E-01	2507.5	-9.81E+00	0.323	1.96
2.515	3.42E-01	2515	-9.33E+00	0.342	2.04
2.5225	3.58E-01	2522.5	-8.93E+00	0.358	2.11
2.53	3.72E-01	2530	-8.60E+00	0.372	2.18
2.5375	3.83E-01	2537.5	-8.33E+00	0.383	2.24
2.545	3.95E-01	2545	-8.07E+00	0.395	2.31
2.5525	4.09E-01	2552.5	-7.77E+00	0.409	2.38
2.56	4.24E-01	2560	-7.44E+00	0.424	2.47
2.5675	4.42E-01	2567.5	-7.09E+00	0.442	2.58
2.575	4.57E-01	2575	-6.80E+00	0.457	2.68
2.5825	4.66E-01	2582.5	-6.63E+00	0.466	2.75
2.59	4.78E-01	2590	-6.42E+00	0.478	2.83
2.5975	4.89E-01	2597.5	-6.21E+00	0.489	2.92
2.605	4.97E-01	2605	-6.07E+00	0.497	2.98
2.6125	5.07E-01	2612.5	-5.91E+00	0.507	3.05
2.62	5.16E-01	2620	-5.75E+00	0.516	3.13
2.6275	5.26E-01	2627.5	-5.57E+00	0.526	3.22
2.635	5.37E-01	2635	-5.40E+00	0.537	3.32
2.6425	5.48E-01	2642.5	-5.23E+00	0.548	3.42
2.65	5.57E-01	2650	-5.08E+00	0.557	3.52

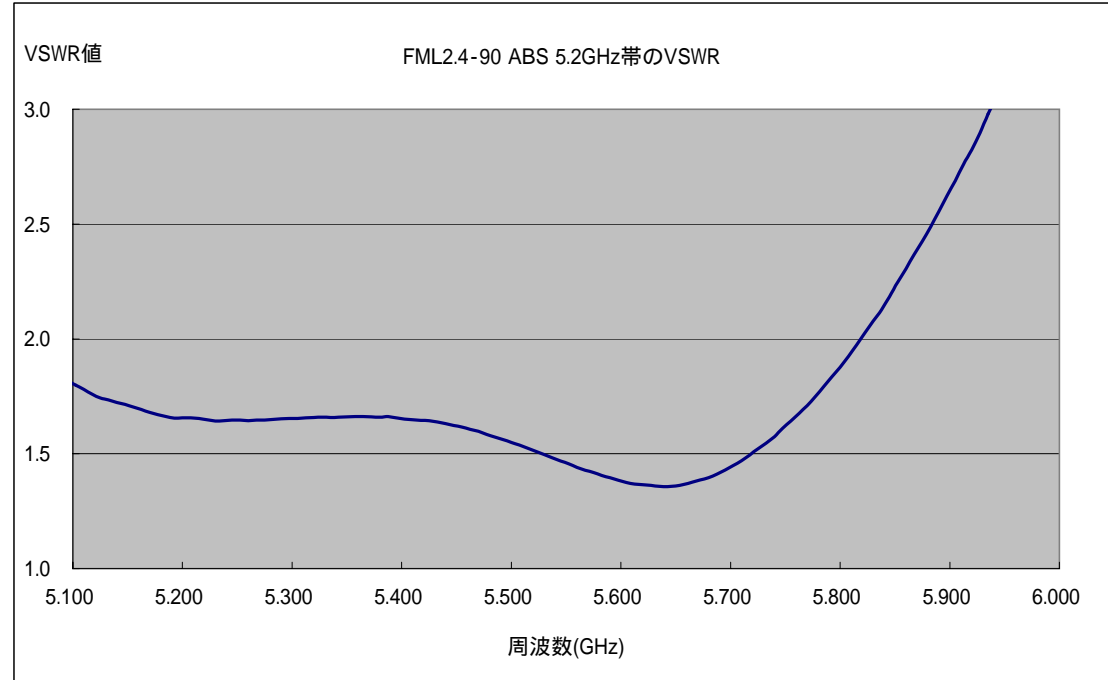
周波数(GHz)	VSWR
2.200	1.80
2.208	1.78
2.215	1.73
2.223	1.68
2.230	1.64
2.238	1.59
2.245	1.54
2.253	1.51
2.260	1.48
2.268	1.44
2.275	1.39
2.283	1.34
2.290	1.30
2.298	1.27
2.305	1.24
2.313	1.21
2.320	1.17
2.328	1.14
2.335	1.11
2.343	1.07
2.350	1.04
2.358	1.01
2.365	1.03
2.373	1.07
2.380	1.11
2.388	1.14
2.395	1.17
2.403	1.21
2.410	1.25
2.418	1.29
2.425	1.34
2.433	1.39
2.440	1.45
2.448	1.50
2.455	1.54
2.463	1.60
2.470	1.65
2.478	1.70
2.485	1.75
2.493	1.83
2.500	1.88
2.508	1.96
2.515	2.04
2.523	2.11
2.530	2.18
2.538	2.24
2.545	2.31
2.553	2.38
2.560	2.47
2.568	2.58
2.575	2.68
2.583	2.75
2.590	2.83
2.598	2.92
2.605	2.98
2.613	3.05
2.620	3.13
2.628	3.22
2.635	3.32
2.643	3.42
2.650	3.52



## 2.10 FML2.4W-90 (ABS)測定データ(5.2GHz帯VSWR)

5.005	3.46E-01	5005	-9.21E+00	0.346	2.06
5.0125	3.41E-01	5012.5	-9.34E+00	0.341	2.04
5.02	3.35E-01	5020	-9.49E+00	0.335	2.01
5.0275	3.31E-01	5027.5	-9.61E+00	0.331	1.99
5.035	3.26E-01	5035	-9.73E+00	0.326	1.97
5.0425	3.21E-01	5042.5	-9.87E+00	0.321	1.95
5.05	3.15E-01	5050	-1.00E+01	0.315	1.92
5.0575	3.10E-01	5057.5	-1.02E+01	0.310	1.90
5.065	3.05E-01	5065	-1.03E+01	0.305	1.88
5.0725	3.00E-01	5072.5	-1.04E+01	0.300	1.86
5.08	2.97E-01	5080	-1.06E+01	0.297	1.84
5.0875	2.93E-01	5087.5	-1.07E+01	0.293	1.83
5.095	2.90E-01	5095	-1.08E+01	0.290	1.82
5.1025	2.85E-01	5102.5	-1.09E+01	0.285	1.80
5.11	2.81E-01	5110	-1.10E+01	0.281	1.78
5.1175	2.75E-01	5117.5	-1.12E+01	0.275	1.76
5.125	2.71E-01	5125	-1.13E+01	0.271	1.74
5.1325	2.69E-01	5132.5	-1.14E+01	0.269	1.73
5.14	2.66E-01	5140	-1.15E+01	0.266	1.72
5.1475	2.63E-01	5147.5	-1.16E+01	0.263	1.72
5.155	2.60E-01	5155	-1.17E+01	0.260	1.70
5.1625	2.57E-01	5162.5	-1.18E+01	0.257	1.69
5.17	2.54E-01	5170	-1.19E+01	0.254	1.68
5.1775	2.51E-01	5177.5	-1.20E+01	0.251	1.67
5.185	2.49E-01	5185	-1.21E+01	0.249	1.66
5.1925	2.47E-01	5192.5	-1.22E+01	0.247	1.65
5.2	2.47E-01	5200	-1.21E+01	0.247	1.66
5.2075	2.47E-01	5207.5	-1.21E+01	0.247	1.66
5.215	2.46E-01	5215	-1.22E+01	0.246	1.65
5.2225	2.45E-01	5222.5	-1.22E+01	0.245	1.65
5.23	2.43E-01	5230	-1.23E+01	0.243	1.64
5.2375	2.44E-01	5237.5	-1.23E+01	0.244	1.64
5.245	2.44E-01	5245	-1.22E+01	0.244	1.65
5.2525	2.44E-01	5252.5	-1.22E+01	0.244	1.65
5.26	2.43E-01	5260	-1.23E+01	0.243	1.64
5.2675	2.44E-01	5267.5	-1.22E+01	0.244	1.65
5.275	2.44E-01	5275	-1.22E+01	0.244	1.65
5.2825	2.45E-01	5282.5	-1.22E+01	0.245	1.65
5.29	2.46E-01	5290	-1.22E+01	0.246	1.65
5.2975	2.47E-01	5297.5	-1.22E+01	0.247	1.65
5.305	2.46E-01	5305	-1.22E+01	0.246	1.65
5.3125	2.47E-01	5312.5	-1.21E+01	0.247	1.66
5.32	2.48E-01	5320	-1.21E+01	0.248	1.66
5.3275	2.48E-01	5327.5	-1.21E+01	0.248	1.66
5.335	2.47E-01	5335	-1.21E+01	0.247	1.66
5.3425	2.48E-01	5342.5	-1.21E+01	0.248	1.66
5.35	2.48E-01	5350	-1.21E+01	0.248	1.66
5.3575	2.49E-01	5357.5	-1.21E+01	0.249	1.66
5.365	2.49E-01	5365	-1.21E+01	0.249	1.66
5.3725	2.48E-01	5372.5	-1.21E+01	0.248	1.66
5.38	2.48E-01	5380	-1.21E+01	0.248	1.66
5.3875	2.49E-01	5387.5	-1.21E+01	0.249	1.66
5.395	2.47E-01	5395	-1.21E+01	0.247	1.66
5.4025	2.46E-01	5402.5	-1.22E+01	0.246	1.65
5.41	2.45E-01	5410	-1.22E+01	0.245	1.65
5.4175	2.44E-01	5417.5	-1.22E+01	0.244	1.65
5.425	2.44E-01	5425	-1.23E+01	0.244	1.64
5.4325	2.42E-01	5432.5	-1.23E+01	0.242	1.64
5.44	2.40E-01	5440	-1.24E+01	0.240	1.63
5.4475	2.38E-01	5447.5	-1.25E+01	0.238	1.62
5.455	2.36E-01	5455	-1.26E+01	0.236	1.62
5.4625	2.33E-01	5462.5	-1.27E+01	0.233	1.61
5.47	2.30E-01	5470	-1.28E+01	0.230	1.60
5.4775	2.26E-01	5477.5	-1.29E+01	0.226	1.58

周波数(GHz)	VSWR
5.013	2.04
5.020	2.01
5.028	1.99
5.035	1.97
5.043	1.95
5.050	1.92
5.058	1.90
5.065	1.88
5.073	1.86
5.080	1.84
5.088	1.83
5.095	1.82
5.103	1.80
5.110	1.78
5.118	1.76
5.125	1.74
5.133	1.73
5.140	1.72
5.148	1.72
5.155	1.70
5.163	1.69
5.170	1.68
5.178	1.67
5.185	1.66
5.193	1.65
5.200	1.66
5.208	1.66
5.215	1.65
5.223	1.65
5.230	1.64
5.238	1.64
5.245	1.65
5.253	1.65
5.260	1.64
5.268	1.65
5.275	1.65
5.283	1.65
5.290	1.65
5.298	1.65
5.305	1.65
5.313	1.66
5.320	1.66
5.328	1.66
5.335	1.66
5.343	1.66
5.350	1.66
5.358	1.66
5.365	1.66
5.373	1.66
5.380	1.66
5.388	1.66
5.395	1.66
5.403	1.65
5.410	1.65
5.418	1.65
5.425	1.64
5.433	1.64
5.440	1.63
5.448	1.62
5.455	1.62
5.463	1.61
5.470	1.60
5.478	1.58



## 2.10 FML2.4W-90 (ABS)測定データ(5.2GHz帯VSWR)

5.485	2.23E-01	5485	-1.30E+01	0.223	1.57	5.485	1.57
5.4925	2.19E-01	5492.5	-1.32E+01	0.219	1.56	5.493	1.56
5.5	2.15E-01	5500	-1.33E+01	0.215	1.55	5.500	1.55
5.5075	2.12E-01	5507.5	-1.35E+01	0.212	1.54	5.508	1.54
5.515	2.07E-01	5515	-1.37E+01	0.207	1.52	5.515	1.52
5.5225	2.03E-01	5522.5	-1.38E+01	0.203	1.51	5.523	1.51
5.53	1.99E-01	5530	-1.40E+01	0.199	1.50	5.530	1.50
5.5375	1.94E-01	5537.5	-1.42E+01	0.194	1.48	5.538	1.48
5.545	1.90E-01	5545	-1.44E+01	0.190	1.47	5.545	1.47
5.5525	1.85E-01	5552.5	-1.46E+01	0.185	1.46	5.553	1.46
5.56	1.80E-01	5560	-1.49E+01	0.180	1.44	5.560	1.44
5.5675	1.76E-01	5567.5	-1.51E+01	0.176	1.43	5.568	1.43
5.575	1.73E-01	5575	-1.53E+01	0.173	1.42	5.575	1.42
5.5825	1.69E-01	5582.5	-1.55E+01	0.169	1.41	5.583	1.41
5.59	1.65E-01	5590	-1.56E+01	0.165	1.40	5.590	1.40
5.5975	1.62E-01	5597.5	-1.58E+01	0.162	1.39	5.598	1.39
5.605	1.58E-01	5605	-1.60E+01	0.158	1.37	5.605	1.37
5.6125	1.56E-01	5612.5	-1.62E+01	0.156	1.37	5.613	1.37
5.62	1.55E-01	5620	-1.62E+01	0.155	1.37	5.620	1.37
5.6275	1.53E-01	5627.5	-1.63E+01	0.153	1.36	5.628	1.36
5.635	1.52E-01	5635	-1.64E+01	0.152	1.36	5.635	1.36
5.6425	1.51E-01	5642.5	-1.64E+01	0.151	1.36	5.643	1.36
5.65	1.52E-01	5650	-1.63E+01	0.152	1.36	5.650	1.36
5.6575	1.55E-01	5657.5	-1.62E+01	0.155	1.37	5.658	1.37
5.665	1.58E-01	5665	-1.60E+01	0.158	1.38	5.665	1.38
5.6725	1.62E-01	5672.5	-1.58E+01	0.162	1.39	5.673	1.39
5.68	1.65E-01	5680	-1.56E+01	0.165	1.40	5.680	1.40
5.6875	1.71E-01	5687.5	-1.54E+01	0.171	1.41	5.688	1.41
5.695	1.77E-01	5695	-1.50E+01	0.177	1.43	5.695	1.43
5.7025	1.83E-01	5702.5	-1.47E+01	0.183	1.45	5.703	1.45
5.71	1.90E-01	5710	-1.44E+01	0.190	1.47	5.710	1.47
5.7175	1.99E-01	5717.5	-1.40E+01	0.199	1.50	5.718	1.50
5.725	2.07E-01	5725	-1.37E+01	0.207	1.52	5.725	1.52
5.7325	2.15E-01	5732.5	-1.34E+01	0.215	1.55	5.733	1.55
5.74	2.23E-01	5740	-1.30E+01	0.223	1.57	5.740	1.57
5.7475	2.34E-01	5747.5	-1.26E+01	0.234	1.61	5.748	1.61
5.755	2.43E-01	5755	-1.23E+01	0.243	1.64	5.755	1.64
5.7625	2.53E-01	5762.5	-1.20E+01	0.253	1.68	5.763	1.68
5.77	2.62E-01	5770	-1.16E+01	0.262	1.71	5.770	1.71
5.7775	2.73E-01	5777.5	-1.13E+01	0.273	1.75	5.778	1.75
5.785	2.84E-01	5785	-1.09E+01	0.284	1.79	5.785	1.79
5.7925	2.94E-01	5792.5	-1.06E+01	0.294	1.83	5.793	1.83
5.8	3.05E-01	5800	-1.03E+01	0.305	1.88	5.800	1.88
5.8075	3.16E-01	5807.5	-1.00E+01	0.316	1.92	5.808	1.92
5.815	3.27E-01	5815	-9.70E+00	0.327	1.97	5.815	1.97
5.8225	3.39E-01	5822.5	-9.39E+00	0.339	2.03	5.823	2.03
5.83	3.50E-01	5830	-9.11E+00	0.350	2.08	5.830	2.08
5.8375	3.60E-01	5837.5	-8.87E+00	0.360	2.13	5.838	2.13
5.845	3.72E-01	5845	-8.60E+00	0.372	2.18	5.845	2.18
5.8525	3.84E-01	5852.5	-8.31E+00	0.384	2.25	5.853	2.25
5.86	3.95E-01	5860	-8.07E+00	0.395	2.31	5.860	2.31
5.8675	4.06E-01	5867.5	-7.83E+00	0.406	2.37	5.868	2.37
5.875	4.16E-01	5875	-7.61E+00	0.416	2.43	5.875	2.43
5.8825	4.27E-01	5882.5	-7.40E+00	0.427	2.49	5.883	2.49
5.89	4.37E-01	5890	-7.18E+00	0.437	2.55	5.890	2.55
5.8975	4.48E-01	5897.5	-6.97E+00	0.448	2.62	5.898	2.62
5.905	4.58E-01	5905	-6.79E+00	0.458	2.69	5.905	2.69
5.9125	4.68E-01	5912.5	-6.60E+00	0.468	2.76	5.913	2.76
5.92	4.77E-01	5920	-6.43E+00	0.477	2.82	5.920	2.82
5.9275	4.87E-01	5927.5	-6.25E+00	0.487	2.90	5.928	2.90
5.935	4.97E-01	5935	-6.07E+00	0.497	2.98	5.935	2.98
5.9425	5.07E-01	5942.5	-5.91E+00	0.507	3.05	5.943	3.05
5.95	5.15E-01	5950	-5.76E+00	0.515	3.13	5.950	3.13
5.9575	5.25E-01	5957.5	-5.60E+00	0.525	3.21	5.958	3.21

## 2.11 VSWR比較表

