

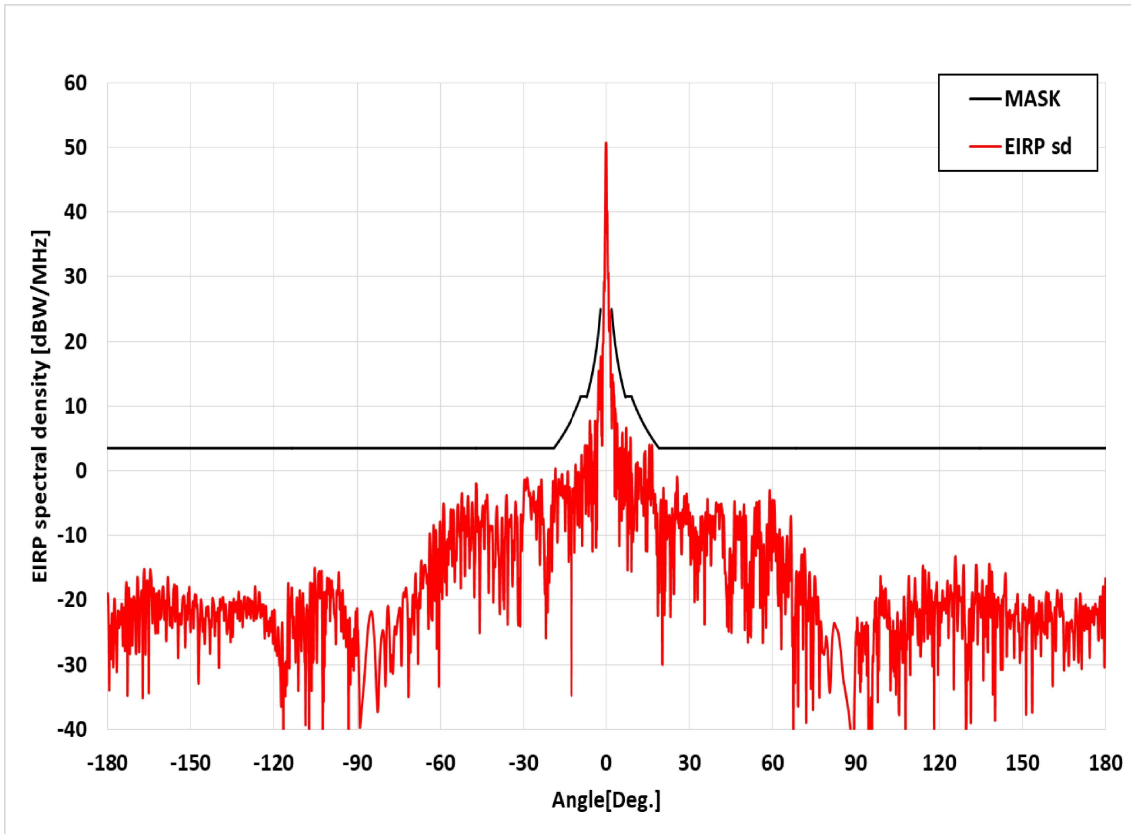
**Exhibit 5B.1 – Plots and Tables with §25.115(g)(1) Information for
Ka-band Antennas**

Exhibit Contains:

Plots and Tables for Intellian V240MTKA antenna.

1. EIRP Spectral Density of v240MT Ka-band

1.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

- **FCC EIRP spectral density regulation**

32.5-25log(θ)	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
35.5-25log(θ)	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

2. EIRP Spectral Density Data

2.1. Azimuth Pattern for Co-pol (-180°~180°)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-19.558	3.500
-179	-24.194	3.500
-178	-30.346	3.500
-177	-26.401	3.500
-176	-23.453	3.500
-175	-21.283	3.500
-174	-22.049	3.500
-173	-19.766	3.500
-172	-26.466	3.500
-171	-26.186	3.500
-170	-23.445	3.500
-169	-17.791	3.500
-168	-19.696	3.500
-167	-17.270	3.500
-166	-19.113	3.500
-165	-24.503	3.500
-164	-20.271	3.500
-163	-22.282	3.500
-162	-23.076	3.500
-161	-22.980	3.500
-160	-17.935	3.500
-159	-22.638	3.500
-158	-18.443	3.500
-157	-21.641	3.500
-156	-17.933	3.500
-155	-18.044	3.500
-154	-22.769	3.500
-153	-20.049	3.500
-152	-27.252	3.500
-151	-19.180	3.500
-150	-23.625	3.500
-149	-24.369	3.500
-148	-19.775	3.500
-147	-28.347	3.500
-146	-21.033	3.500
-145	-26.783	3.500
-144	-22.422	3.500
-143	-27.836	3.500
-142	-19.848	3.500
-141	-22.022	3.500
-140	-23.952	3.500

-139	-21.191	3.500
-138	-23.194	3.500
-137	-24.837	3.500
-136	-20.325	3.500
-135	-23.903	3.500
-134	-21.547	3.500
-133	-22.504	3.500
-132	-20.144	3.500
-131	-21.307	3.500
-130	-22.468	3.500
-129	-22.223	3.500
-128	-20.213	3.500
-127	-20.259	3.500
-126	-22.185	3.500
-125	-21.411	3.500
-124	-21.282	3.500
-123	-21.251	3.500
-122	-24.493	3.500
-121	-24.897	3.500
-120	-21.772	3.500
-119	-27.234	3.500
-118	-30.130	3.500
-117	-23.457	3.500
-116	-32.740	3.500
-115	-20.612	3.500
-114	-21.867	3.500
-113	-24.938	3.500
-112	-26.901	3.500
-111	-24.403	3.500
-110	-26.390	3.500
-109	-27.039	3.500
-108	-21.468	3.500
-107	-18.510	3.500
-106	-19.411	3.500
-105	-19.654	3.500
-104	-15.920	3.500
-103	-19.711	3.500
-102	-21.139	3.500
-101	-21.223	3.500
-100	-16.948	3.500
-99	-19.137	3.500

-98	-22.726	3.500
-97	-18.749	3.500
-96	-18.941	3.500
-95	-22.871	3.500
-94	-27.223	3.500
-93	-32.056	3.500
-92	-30.245	3.500
-91	-24.473	3.500
-90	-21.337	3.500
-89	-39.701	3.500
-88	-35.115	3.500
-87	-29.567	3.500
-86	-24.056	3.500
-85	-21.818	3.500
-84	-24.804	3.500
-83	-34.401	3.500
-82	-31.315	3.500
-81	-25.028	3.500
-80	-30.145	3.500
-79	-21.193	3.500
-78	-31.040	3.500
-77	-30.417	3.500
-76	-25.257	3.500
-75	-22.055	3.500
-74	-30.138	3.500
-73	-19.356	3.500
-72	-19.916	3.500
-71	-23.321	3.500
-70	-19.998	3.500
-69	-16.054	3.500
-68	-29.855	3.500
-67	-14.772	3.500
-66	-15.677	3.500
-65	-17.089	3.500
-64	-12.352	3.500
-63	-22.112	3.500
-62	-20.077	3.500
-61	-12.633	3.500
-60	-8.702	3.500
-59	-6.409	3.500
-58	-11.100	3.500

-57	-12.170	3.500
-56	-8.653	3.500
-55	-12.029	3.500
-54	-9.587	3.500
-53	-10.249	3.500
-52	-7.039	3.500
-51	-11.723	3.500
-50	-3.940	3.500
-49	-12.342	3.500
-48	-10.752	3.500
-47	-2.129	3.500
-46	-14.150	3.500
-45	-7.864	3.500
-44	-9.390	3.500
-43	-4.897	3.500
-42	-8.646	3.500
-41	-16.118	3.500
-40	-9.716	3.500
-39	-13.003	3.500
-38	-12.530	3.500
-37	-21.347	3.500
-36	-4.485	3.500
-35	-7.642	3.500
-34	-17.876	3.500
-33	-6.229	3.500
-32	-22.275	3.500
-31	-7.721	3.500
-30	-4.980	3.500
-29	-2.706	3.500
-28	-3.941	3.500
-27	-5.591	3.500
-26	-6.417	3.500
-25	-4.534	3.500
-24	-12.006	3.500
-23	-7.815	3.500
-22	-19.825	3.500
-21	-9.026	3.500
-20	-5.417	3.500
-19	-7.908	3.531
-18	-3.529	4.118
-17	-3.587	4.739

-16	-1.384	5.397
-15	-9.322	6.098
-14	-0.115	6.847
-13	-5.378	7.651
-12	-5.540	8.520
-11	0.937	9.465
-10	-1.171	10.500
-9	-0.102	11.500
-8	0.423	11.500
-7	2.603	11.373
-6	1.954	13.046
-5	-0.327	15.026
-4	7.628	17.449
-3	7.601	20.572
-2	16.719	24.974
-1	19.651	
-1.00044E-11	50.720	
1	22.807	
2	10.294	24.974
3	8.816	20.572
4	7.237	17.449
5	3.467	15.026
6	3.015	13.046
7	-3.002	11.373
8	-1.932	11.500
9	-0.599	11.500
10	-9.156	10.500
11	-5.851	9.465
12	0.408	8.520
13	-3.807	7.651
14	2.585	6.847
15	-2.519	6.098
16	-4.398	5.397
17	-2.969	4.739
18	-5.229	4.118
19	-13.892	3.531
20	-7.145	3.500
21	-22.077	3.500
22	-10.284	3.500
23	-9.816	3.500
24	-6.759	3.500

25	-3.688	3.500
26	-8.101	3.500
27	-10.069	3.500
28	-5.666	3.500
29	-3.573	3.500
30	-8.657	3.500
31	-12.066	3.500
32	-15.091	3.500
33	-19.924	3.500
34	-9.668	3.500
35	-9.789	3.500
36	-7.567	3.500
37	-6.766	3.500
38	-9.651	3.500
39	-7.879	3.500
40	-5.994	3.500
41	-7.498	3.500
42	-9.112	3.500
43	-15.666	3.500
44	-19.103	3.500
45	-14.467	3.500
46	-12.455	3.500
47	-9.409	3.500
48	-10.624	3.500
49	-17.985	3.500
50	-24.606	3.500
51	-24.635	3.500
52	-15.395	3.500
53	-21.059	3.500
54	-13.029	3.500
55	-7.077	3.500
56	-12.996	3.500
57	-14.497	3.500
58	-8.354	3.500
59	-3.050	3.500
60	-4.524	3.500
61	-10.282	3.500
62	-19.329	3.500
63	-21.954	3.500
64	-18.404	3.500
65	-12.373	3.500

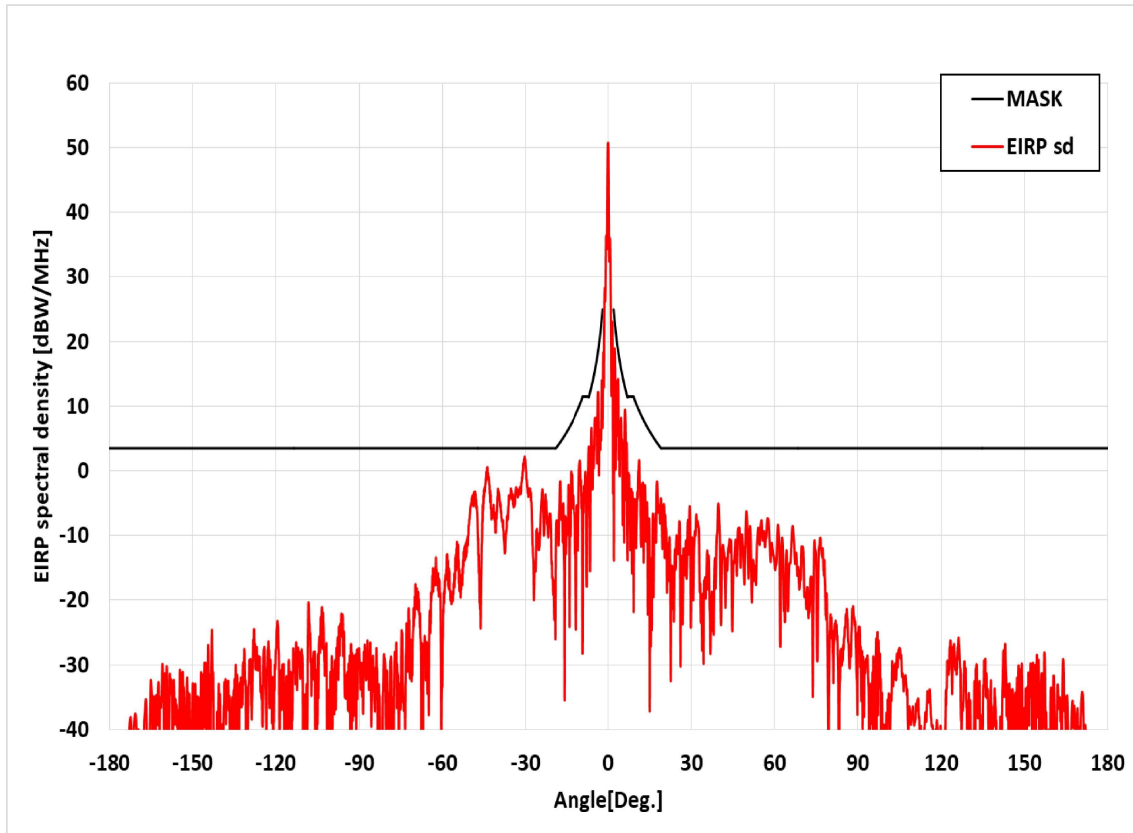
66	-15.340	3.500
67	-19.906	3.500
68	-26.515	3.500
69	-21.629	3.500
70	-19.871	3.500
71	-27.611	3.500
72	-24.823	3.500
73	-19.348	3.500
74	-22.916	3.500
75	-17.675	3.500
76	-21.931	3.500
77	-31.294	3.500
78	-28.183	3.500
79	-26.975	3.500
80	-29.223	3.500
81	-31.669	3.500
82	-23.946	3.500
83	-24.355	3.500
84	-25.912	3.500
85	-30.072	3.500
86	-33.621	3.500
87	-36.185	3.500
88	-39.777	3.500
89	-43.838	3.500
90	-25.558	3.500
91	-27.794	3.500
92	-26.580	3.500
93	-26.298	3.500
94	-31.650	3.500
95	-43.558	3.500
96	-30.948	3.500
97	-20.212	3.500
98	-25.668	3.500
99	-17.134	3.500
100	-18.631	3.500
101	-22.675	3.500
102	-20.612	3.500
103	-24.786	3.500
104	-29.002	3.500
105	-21.931	3.500
106	-27.599	3.500

107	-25.963	3.500
108	-33.957	3.500
109	-16.666	3.500
110	-20.484	3.500
111	-19.875	3.500
112	-20.641	3.500
113	-21.428	3.500
114	-18.056	3.500
115	-15.410	3.500
116	-22.124	3.500
117	-20.023	3.500
118	-22.288	3.500
119	-18.382	3.500
120	-21.601	3.500
121	-21.073	3.500
122	-20.320	3.500
123	-17.036	3.500
124	-19.067	3.500
125	-19.056	3.500
126	-14.124	3.500
127	-19.230	3.500
128	-19.752	3.500
129	-16.159	3.500
130	-27.271	3.500
131	-22.353	3.500
132	-18.811	3.500
133	-19.184	3.500
134	-25.386	3.500
135	-21.731	3.500
136	-32.338	3.500
137	-18.398	3.500
138	-15.248	3.500
139	-15.638	3.500
140	-24.697	3.500
141	-24.175	3.500
142	-22.510	3.500
143	-25.656	3.500
144	-16.408	3.500
145	-22.758	3.500
146	-23.254	3.500
147	-27.378	3.500

148	-21.073	3.500
149	-26.635	3.500
150	-24.452	3.500
151	-21.170	3.500
152	-22.432	3.500
153	-19.369	3.500
154	-20.113	3.500
155	-23.117	3.500
156	-20.186	3.500
157	-20.693	3.500
158	-24.886	3.500
159	-25.885	3.500
160	-20.311	3.500
161	-33.286	3.500
162	-27.819	3.500
163	-20.803	3.500
164	-19.034	3.500
165	-30.857	3.500
166	-23.445	3.500
167	-24.646	3.500
168	-24.670	3.500
169	-23.340	3.500
170	-26.302	3.500
171	-19.577	3.500
172	-21.127	3.500
173	-21.978	3.500
174	-22.632	3.500
175	-23.411	3.500
176	-22.688	3.500
177	-21.389	3.500
178	-19.591	3.500
179	-18.76	3.500
180	-16.650	3.500

3. EIRP Spectral Density of v240MT Ka-band (Maximum skew angle 45degree)

3.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

- **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

4. EIRP Spectral Density Data (Maximum skew angle 45degree)

4.1. Azimuth Pattern for Co-pol (-180°~180°)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-60.831	3.500
-179	-65.401	3.500
-178	-62.606	3.500
-177	-56.209	3.500
-176	-50.749	3.500
-175	-48.859	3.500
-174	-50.869	3.500
-173	-40.861	3.500
-172	-41.985	3.500
-171	-38.235	3.500
-170	-50.067	3.500
-169	-52.408	3.500
-168	-53.227	3.500
-167	-35.841	3.500
-166	-47.650	3.500
-165	-32.778	3.500
-164	-34.882	3.500
-163	-36.508	3.500
-162	-45.239	3.500
-161	-30.456	3.500
-160	-32.323	3.500
-159	-42.615	3.500
-158	-34.472	3.500
-157	-36.530	3.500
-156	-37.137	3.500
-155	-47.777	3.500
-154	-36.950	3.500
-153	-39.506	3.500
-152	-31.989	3.500
-151	-41.171	3.500
-150	-32.915	3.500
-149	-33.230	3.500
-148	-37.022	3.500
-147	-31.175	3.500
-146	-39.638	3.500
-145	-33.478	3.500
-144	-31.944	3.500
-143	-27.672	3.500
-142	-45.479	3.500
-141	-37.225	3.500
-140	-42.880	3.500

-139	-43.212	3.500
-138	-39.154	3.500
-137	-37.053	3.500
-136	-45.337	3.500
-135	-34.716	3.500
-134	-31.560	3.500
-133	-32.813	3.500
-132	-32.506	3.500
-131	-32.357	3.500
-130	-36.892	3.500
-129	-32.699	3.500
-128	-26.369	3.500
-127	-28.218	3.500
-126	-30.008	3.500
-125	-35.661	3.500
-124	-31.225	3.500
-123	-27.691	3.500
-122	-29.247	3.500
-121	-42.539	3.500
-120	-27.600	3.500
-119	-27.894	3.500
-118	-36.937	3.500
-117	-41.245	3.500
-116	-33.002	3.500
-115	-34.620	3.500
-114	-37.651	3.500
-113	-32.979	3.500
-112	-27.389	3.500
-111	-28.865	3.500
-110	-36.033	3.500
-109	-35.189	3.500
-108	-23.379	3.500
-107	-31.549	3.500
-106	-27.957	3.500
-105	-38.990	3.500
-104	-25.665	3.500
-103	-21.966	3.500
-102	-27.477	3.500
-101	-40.592	3.500
-100	-31.477	3.500
-99	-37.576	3.500

-98	-29.514	3.500
-97	-28.534	3.500
-96	-22.247	3.500
-95	-33.166	3.500
-94	-36.959	3.500
-93	-28.621	3.500
-92	-31.007	3.500
-91	-43.760	3.500
-90	-27.830	3.500
-89	-31.442	3.500
-88	-26.910	3.500
-87	-26.284	3.500
-86	-26.593	3.500
-85	-28.714	3.500
-84	-31.710	3.500
-83	-33.730	3.500
-82	-43.387	3.500
-81	-28.935	3.500
-80	-32.499	3.500
-79	-36.973	3.500
-78	-52.994	3.500
-77	-30.559	3.500
-76	-31.646	3.500
-75	-36.850	3.500
-74	-34.941	3.500
-73	-26.850	3.500
-72	-23.034	3.500
-71	-30.518	3.500
-70	-22.353	3.500
-69	-18.817	3.500
-68	-22.080	3.500
-67	-58.418	3.500
-66	-32.367	3.500
-65	-30.982	3.500
-64	-20.109	3.500
-63	-15.352	3.500
-62	-17.597	3.500
-61	-16.996	3.500
-60	-33.243	3.500
-59	-16.762	3.500
-58	-13.887	3.500

-57	-18.620	3.500
-56	-19.088	3.500
-55	-15.374	3.500
-54	-17.384	3.500
-53	-17.103	3.500
-52	-13.866	3.500
-51	-11.572	3.500
-50	-6.426	3.500
-49	-3.726	3.500
-48	-3.616	3.500
-47	-13.036	3.500
-46	-16.694	3.500
-45	-2.938	3.500
-44	-1.101	3.500
-43	-2.189	3.500
-42	-7.062	3.500
-41	-8.013	3.500
-40	-3.954	3.500
-39	-5.196	3.500
-38	-9.149	3.500
-37	-9.606	3.500
-36	-3.785	3.500
-35	-4.028	3.500
-34	-5.469	3.500
-33	-3.035	3.500
-32	-2.501	3.500
-31	0.040	3.500
-30	0.937	3.500
-29	-3.994	3.500
-28	-4.649	3.500
-27	-19.940	3.500
-26	-9.225	3.500
-25	-11.718	3.500
-24	-3.306	3.500
-23	-5.473	3.500
-22	-8.254	3.500
-21	-7.254	3.500
-20	-19.165	3.500
-19	-10.297	3.531
-18	-8.639	4.118
-17	-7.555	4.739

-16	-16.468	5.397
-15	-7.376	6.098
-14	-6.494	6.847
-13	-4.609	7.651
-12	-8.245	8.520
-11	-8.997	9.465
-10	-0.384	10.500
-9	-5.358	11.500
-8	-0.850	11.500
-7	3.731	11.373
-6	6.600	13.046
-5	3.680	15.026
-4	1.205	17.449
-3	5.189	20.572
-2	6.644	24.974
-1	26.210	
-1.00044E-11	50.720	
1	24.457	
2	8.735	24.974
3	13.652	20.572
4	6.790	17.449
5	4.870	15.026
6	8.431	13.046
7	-13.821	11.373
8	-12.202	11.500
9	-6.952	11.500
10	-11.008	10.500
11	-0.127	9.465
12	-10.404	8.520
13	-5.464	7.651
14	-4.852	6.847
15	-37.200	6.098
16	-7.741	5.397
17	-8.525	4.739
18	-5.308	4.118
19	-4.266	3.531
20	-5.278	3.500
21	-9.752	3.500
22	-11.412	3.500
23	-14.666	3.500
24	-13.200	3.500

25	-10.659	3.500
26	-18.868	3.500
27	-19.572	3.500
28	-10.783	3.500
29	-12.885	3.500
30	-15.902	3.500
31	-11.669	3.500
32	-8.308	3.500
33	-18.685	3.500
34	-21.983	3.500
35	-17.060	3.500
36	-18.262	3.500
37	-26.212	3.500
38	-24.482	3.500
39	-12.561	3.500
40	-7.172	3.500
41	-15.125	3.500
42	-14.862	3.500
43	-15.391	3.500
44	-12.069	3.500
45	-19.015	3.500
46	-10.682	3.500
47	-9.364	3.500
48	-11.855	3.500
49	-16.304	3.500
50	-6.999	3.500
51	-9.103	3.500
52	-17.089	3.500
53	-15.312	3.500
54	-9.012	3.500
55	-8.322	3.500
56	-9.829	3.500
57	-10.325	3.500
58	-9.337	3.500
59	-11.149	3.500
60	-14.441	3.500
61	-9.904	3.500
62	-26.234	3.500
63	-12.707	3.500
64	-15.311	3.500
65	-18.541	3.500

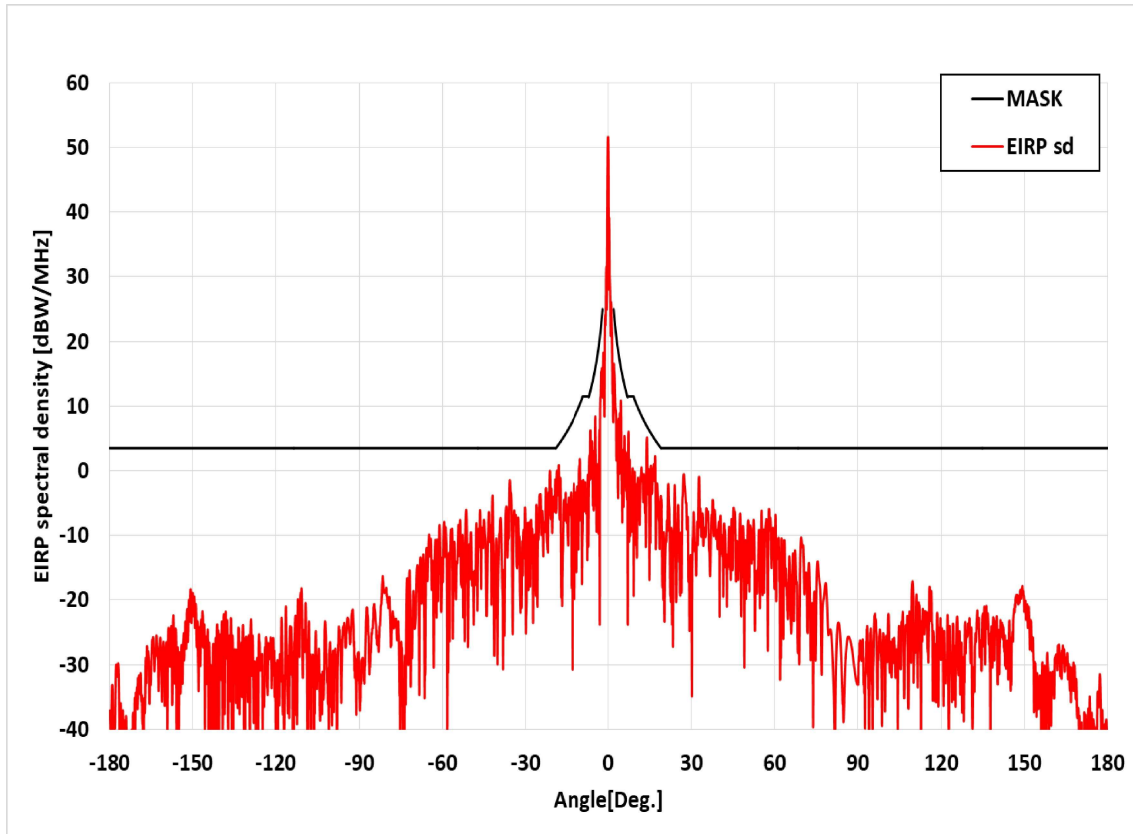
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67	-10.931	3.500
68	-14.230	3.500
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71	-18.995	3.500
72	-20.148	3.500
73	-16.694	3.500
74	-20.295	3.500
75	-14.409	3.500
76	-11.941	3.500
77	-13.065	3.500
78	-13.852	3.500
79	-25.562	3.500
80	-24.750	3.500
81	-28.168	3.500
82	-23.194	3.500
83	-34.122	3.500
84	-28.807	3.500
85	-26.003	3.500
86	-21.359	3.500
87	-30.498	3.500
88	-21.330	3.500
89	-23.245	3.500
90	-25.137	3.500
91	-27.237	3.500
92	-31.083	3.500
93	-29.165	3.500
94	-37.780	3.500
95	-35.635	3.500
96	-31.412	3.500
97	-27.062	3.500
98	-28.317	3.500
99	-43.079	3.500
100	-40.015	3.500
101	-37.833	3.500
102	-35.013	3.500
103	-30.096	3.500
104	-29.426	3.500
105	-27.392	3.500
106	-31.895	3.500

107	-32.471	3.500
108	-37.403	3.500
109	-38.193	3.500
110	-38.237	3.500
111	-35.977	3.500
112	-38.251	3.500
113	-46.239	3.500
114	-39.849	3.500
115	-35.431	3.500
116	-34.691	3.500
117	-39.397	3.500
118	-39.979	3.500
119	-42.034	3.500
120	-42.541	3.500
121	-41.588	3.500
122	-33.704	3.500
123	-28.775	3.500
124	-34.514	3.500
125	-29.353	3.500
126	-27.280	3.500
127	-30.854	3.500
128	-35.357	3.500
129	-34.740	3.500
130	-34.394	3.500
131	-42.098	3.500
132	-32.514	3.500
133	-34.183	3.500
134	-37.359	3.500
135	-42.264	3.500
136	-29.200	3.500
137	-39.108	3.500
138	-32.495	3.500
139	-38.675	3.500
140	-43.025	3.500
141	-45.923	3.500
142	-37.276	3.500
143	-28.880	3.500
144	-38.449	3.500
145	-36.227	3.500
146	-53.517	3.500
147	-34.744	3.500

148	-30.187	3.500
149	-34.728	3.500
150	-36.715	3.500
151	-33.914	3.500
152	-32.913	3.500
153	-33.538	3.500
154	-31.914	3.500
155	-31.967	3.500
156	-44.831	3.500
157	-39.632	3.500
158	-42.558	3.500
159	-42.310	3.500
160	-44.723	3.500
161	-44.360	3.500
162	-33.053	3.500
163	-38.733	3.500
164	-29.128	3.500
165	-44.481	3.500
166	-42.849	3.500
167	-38.062	3.500
168	-36.346	3.500
169	-37.314	3.500
170	-42.892	3.500
171	-34.397	3.500
172	-39.507	3.500
173	-45.855	3.500
174	-49.993	3.500
175	-52.780	3.500
176	-40.370	3.500
177	-46.185	3.500
178	-58.909	3.500
179	-67.657	3.500
180	-75.342	3.500

9. EIRP Spectral Density of v240MT Ka-band

9.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

- **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

10. EIRP Spectral Density Data

10.1. Azimuth Pattern for Co-pol (-180°~180°)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-37.666	3.500
-179	-33.148	3.500
-178	-38.457	3.500
-177	-30.303	3.500
-176	-35.985	3.500
-175	-45.518	3.500
-174	-38.314	3.500
-173	-46.276	3.500
-172	-40.242	3.500
-171	-37.878	3.500
-170	-34.509	3.500
-169	-34.551	3.500
-168	-39.013	3.500
-167	-30.369	3.500
-166	-28.407	3.500
-165	-31.452	3.500
-164	-28.089	3.500
-163	-25.670	3.500
-162	-27.537	3.500
-161	-32.519	3.500
-160	-34.149	3.500
-159	-31.178	3.500
-158	-26.884	3.500
-157	-22.375	3.500
-156	-25.885	3.500
-155	-40.969	3.500
-154	-27.775	3.500
-153	-28.247	3.500
-152	-21.445	3.500
-151	-22.738	3.500
-150	-18.931	3.500
-149	-21.694	3.500
-148	-30.888	3.500
-147	-23.160	3.500
-146	-23.837	3.500
-145	-32.869	3.500
-144	-28.816	3.500
-143	-40.484	3.500
-142	-34.682	3.500
-141	-31.429	3.500
-140	-26.689	3.500

-139	-26.799	3.500
-138	-25.872	3.500
-137	-26.990	3.500
-136	-31.088	3.500
-135	-32.605	3.500
-134	-30.208	3.500
-133	-33.768	3.500
-132	-25.709	3.500
-131	-29.073	3.500
-130	-32.130	3.500
-129	-23.015	3.500
-128	-38.977	3.500
-127	-32.514	3.500
-126	-26.445	3.500
-125	-28.397	3.500
-124	-28.224	3.500
-123	-34.601	3.500
-122	-27.147	3.500
-121	-25.911	3.500
-120	-50.232	3.500
-119	-34.092	3.500
-118	-22.796	3.500
-117	-41.836	3.500
-116	-30.064	3.500
-115	-24.688	3.500
-114	-31.389	3.500
-113	-22.525	3.500
-112	-20.827	3.500
-111	-20.081	3.500
-110	-24.656	3.500
-109	-27.143	3.500
-108	-25.692	3.500
-107	-30.527	3.500
-106	-37.554	3.500
-105	-31.638	3.500
-104	-37.607	3.500
-103	-31.534	3.500
-102	-25.675	3.500
-101	-38.758	3.500
-100	-35.214	3.500
-99	-31.431	3.500

-98	-42.631	3.500
-97	-26.305	3.500
-96	-25.664	3.500
-95	-27.246	3.500
-94	-22.897	3.500
-93	-25.013	3.500
-92	-24.064	3.500
-91	-37.695	3.500
-90	-32.472	3.500
-89	-30.846	3.500
-88	-29.865	3.500
-87	-22.194	3.500
-86	-29.369	3.500
-85	-23.206	3.500
-84	-23.618	3.500
-83	-27.989	3.500
-82	-20.659	3.500
-81	-18.864	3.500
-80	-19.099	3.500
-79	-21.014	3.500
-78	-22.227	3.500
-77	-22.917	3.500
-76	-25.163	3.500
-75	-31.289	3.500
-74	-36.169	3.500
-73	-22.178	3.500
-72	-16.755	3.500
-71	-25.750	3.500
-70	-24.417	3.500
-69	-14.626	3.500
-68	-14.128	3.500
-67	-14.132	3.500
-66	-20.287	3.500
-65	-11.402	3.500
-64	-12.988	3.500
-63	-22.024	3.500
-62	-13.493	3.500
-61	-8.401	3.500
-60	-13.447	3.500
-59	-12.832	3.500
-58	-26.598	3.500

-57	-9.712	3.500
-56	-17.093	3.500
-55	-17.575	3.500
-54	-10.544	3.500
-53	-17.991	3.500
-52	-17.925	3.500
-51	-16.205	3.500
-50	-16.726	3.500
-49	-15.677	3.500
-48	-16.485	3.500
-47	-9.376	3.500
-46	-18.144	3.500
-45	-7.626	3.500
-44	-22.391	3.500
-43	-10.922	3.500
-42	-4.257	3.500
-41	-22.859	3.500
-40	-24.958	3.500
-39	-7.321	3.500
-38	-21.609	3.500
-37	-5.642	3.500
-36	-9.893	3.500
-35	-7.575	3.500
-34	-6.653	3.500
-33	-15.052	3.500
-32	-18.765	3.500
-31	-16.175	3.500
-30	-10.806	3.500
-29	-15.422	3.500
-28	-7.627	3.500
-27	-10.965	3.500
-26	-5.664	3.500
-25	-3.983	3.500
-24	-6.208	3.500
-23	-9.290	3.500
-22	-11.706	3.500
-21	-5.088	3.500
-20	-4.786	3.500
-19	-6.456	3.531
-18	0.843	4.118
-17	-12.387	4.739

-16	-4.695	5.397
-15	-5.356	6.098
-14	-6.793	6.847
-13	-30.740	7.651
-12	-11.632	8.520
-11	-4.628	9.465
-10	-7.560	10.500
-9	-1.492	11.500
-8	-3.580	11.500
-7	-4.039	11.373
-6	-1.134	13.046
-5	1.716	15.026
-4	-8.479	17.449
-3	-23.798	20.572
-2	11.562	24.974
-1	24.097	
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2	15.948	24.974
3	1.672	20.572
4	-0.431	17.449
5	0.254	15.026
6	4.953	13.046
7	-1.449	11.373
8	-10.069	11.500
9	-1.060	11.500
10	-4.157	10.500
11	-3.579	9.465
12	0.502	8.520
13	-1.262	7.651
14	5.117	6.847
15	-7.419	6.098
16	-0.955	5.397
17	2.185	4.739
18	-4.321	4.118
19	-3.920	3.531
20	-15.988	3.500
21	-10.991	3.500
22	-5.432	3.500
23	-16.693	3.500
24	-2.253	3.500

25	-8.836	3.500
26	-19.262	3.500
27	-3.035	3.500
28	-4.906	3.500
29	-17.201	3.500
30	-21.327	3.500
31	-9.516	3.500
32	-8.955	3.500
33	-6.108	3.500
34	-6.609	3.500
35	-8.788	3.500
36	-6.312	3.500
37	-12.205	3.500
38	-9.397	3.500
39	-10.531	3.500
40	-8.058	3.500
41	-10.211	3.500
42	-9.318	3.500
43	-13.104	3.500
44	-13.584	3.500
45	-10.377	3.500
46	-14.505	3.500
47	-15.400	3.500
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55	-13.977	3.500
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57	-7.472	3.500
58	-5.956	3.500
59	-11.566	3.500
60	-18.201	3.500
61	-12.632	3.500
62	-32.255	3.500
63	-12.766	3.500
64	-15.959	3.500
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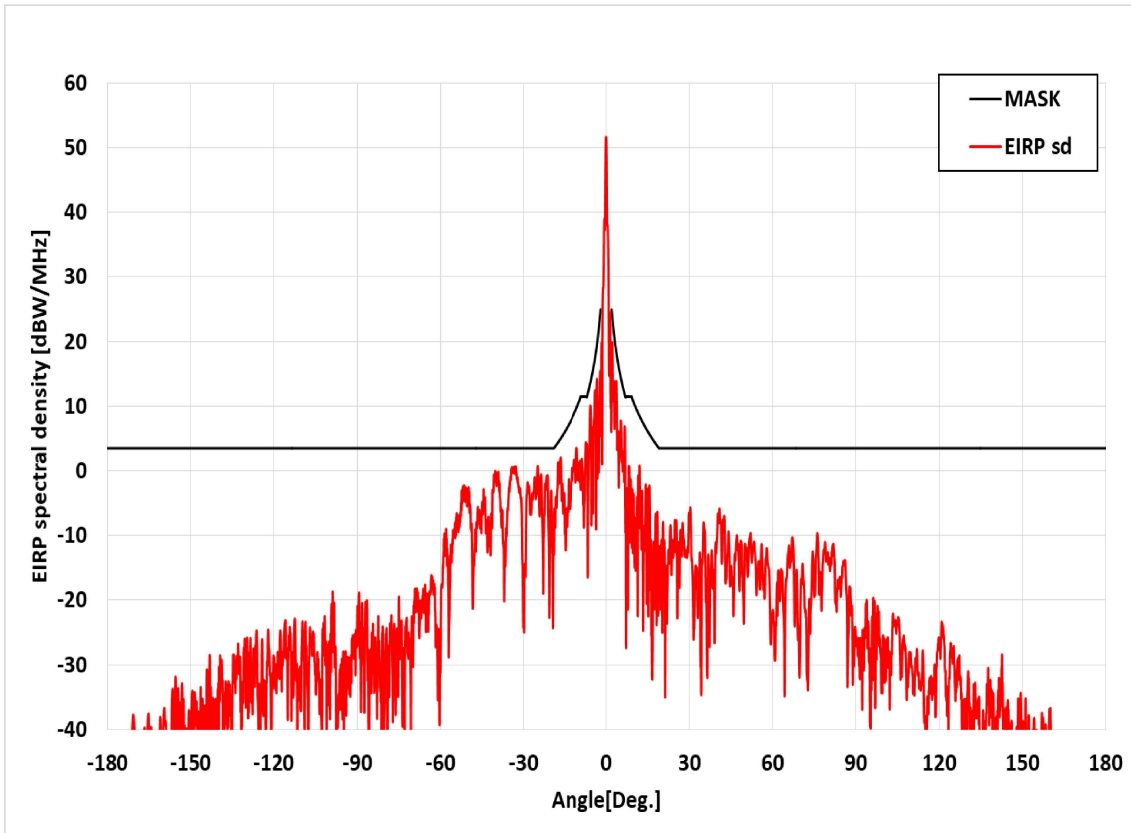
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67	-23.239	3.500
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69	-22.615	3.500
70	-11.843	3.500
71	-16.778	3.500
72	-20.760	3.500
73	-29.294	3.500
74	-27.426	3.500
75	-20.691	3.500
76	-16.393	3.500
77	-31.504	3.500
78	-18.714	3.500
79	-21.647	3.500
80	-24.558	3.500
81	-29.896	3.500
82	-33.545	3.500
83	-23.492	3.500
84	-28.611	3.500
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86	-26.729	3.500
87	-25.910	3.500
88	-27.898	3.500
89	-31.361	3.500
90	-33.102	3.500
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93	-26.493	3.500
94	-42.589	3.500
95	-28.303	3.500
96	-22.445	3.500
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99	-26.446	3.500
100	-28.498	3.500
101	-22.162	3.500
102	-29.676	3.500
103	-27.458	3.500
104	-27.630	3.500
105	-27.113	3.500
106	-23.467	3.500

107	-26.888	3.500
108	-25.973	3.500
109	-22.593	3.500
110	-20.206	3.500
111	-20.102	3.500
112	-20.863	3.500
113	-23.794	3.500
114	-25.270	3.500
115	-24.439	3.500
116	-20.846	3.500
117	-35.548	3.500
118	-28.380	3.500
119	-36.469	3.500
120	-29.244	3.500
121	-27.097	3.500
122	-31.517	3.500
123	-26.126	3.500
124	-33.719	3.500
125	-29.519	3.500
126	-26.395	3.500
127	-33.958	3.500
128	-28.864	3.500
129	-26.539	3.500
130	-23.843	3.500
131	-25.612	3.500
132	-34.162	3.500
133	-22.007	3.500
134	-28.830	3.500
135	-22.247	3.500
136	-26.942	3.500
137	-23.588	3.500
138	-28.795	3.500
139	-23.767	3.500
140	-22.703	3.500
141	-31.435	3.500
142	-25.092	3.500
143	-25.585	3.500
144	-27.532	3.500
145	-32.362	3.500
146	-23.275	3.500
147	-20.300	3.500

148	-19.362	3.500
149	-19.119	3.500
150	-21.810	3.500
151	-20.730	3.500
152	-27.619	3.500
153	-26.286	3.500
154	-29.836	3.500
155	-35.885	3.500
156	-37.244	3.500
157	-46.966	3.500
158	-37.448	3.500
159	-36.449	3.500
160	-32.357	3.500
161	-29.130	3.500
162	-28.989	3.500
163	-31.299	3.500
164	-27.842	3.500
165	-29.922	3.500
166	-29.889	3.500
167	-30.946	3.500
168	-32.094	3.500
169	-37.774	3.500
170	-41.818	3.500
171	-41.467	3.500
172	-37.743	3.500
173	-37.528	3.500
174	-42.706	3.500
175	-38.975	3.500
176	-43.050	3.500
177	-34.478	3.500
178	-36.984	3.500
179	-39.21156702	3.500
180	-41.741	3.500

11. EIRP Spectral Density of v240MT Ka-band (Maximum skew angle 45degree)

11.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

- **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

12. EIRP Spectral Density Data (Maximum skew angle 45degree)

12.1. Azimuth Pattern for Co-pol (-180°~180°)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-58.081	3.500
-179	-62.778	3.500
-178	-60.123	3.500
-177	-53.718	3.500
-176	-48.268	3.500
-175	-46.298	3.500
-174	-45.300	3.500
-173	-60.304	3.500
-172	-42.255	3.500
-171	-39.240	3.500
-170	-43.956	3.500
-169	-55.061	3.500
-168	-48.557	3.500
-167	-42.366	3.500
-166	-45.960	3.500
-165	-40.614	3.500
-164	-47.866	3.500
-163	-53.280	3.500
-162	-47.761	3.500
-161	-38.093	3.500
-160	-40.691	3.500
-159	-39.017	3.500
-158	-47.486	3.500
-157	-45.193	3.500
-156	-40.633	3.500
-155	-35.501	3.500
-154	-35.838	3.500
-153	-34.597	3.500
-152	-49.770	3.500
-151	-40.684	3.500
-150	-42.475	3.500
-149	-45.997	3.500
-148	-36.611	3.500
-147	-41.451	3.500
-146	-48.056	3.500
-145	-38.011	3.500
-144	-34.354	3.500
-143	-38.387	3.500
-142	-35.174	3.500
-141	-42.117	3.500
-140	-32.875	3.500

-139	-32.707	3.500
-138	-41.668	3.500
-137	-33.338	3.500
-136	-33.600	3.500
-135	-35.810	3.500
-134	-31.104	3.500
-133	-30.009	3.500
-132	-37.312	3.500
-131	-33.246	3.500
-130	-31.431	3.500
-129	-33.452	3.500
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-122	-25.034	3.500
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-120	-28.973	3.500
-119	-31.516	3.500
-118	-29.682	3.500
-117	-28.071	3.500
-116	-23.452	3.500
-115	-38.288	3.500
-114	-25.080	3.500
-113	-34.701	3.500
-112	-32.458	3.500
-111	-35.482	3.500
-110	-27.381	3.500
-109	-39.302	3.500
-108	-31.464	3.500
-107	-24.227	3.500
-106	-25.018	3.500
-105	-30.581	3.500
-104	-29.131	3.500
-103	-35.918	3.500
-102	-24.098	3.500
-101	-51.858	3.500
-100	-26.618	3.500
-99	-25.668	3.500

-98	-28.580	3.500
-97	-39.711	3.500
-96	-32.560	3.500
-95	-27.952	3.500
-94	-35.652	3.500
-93	-29.573	3.500
-92	-29.721	3.500
-91	-28.196	3.500
-90	-24.770	3.500
-89	-28.955	3.500
-88	-26.914	3.500
-87	-20.298	3.500
-86	-29.966	3.500
-85	-31.396	3.500
-84	-30.560	3.500
-83	-31.926	3.500
-82	-28.812	3.500
-81	-25.108	3.500
-80	-31.052	3.500
-79	-36.342	3.500
-78	-25.595	3.500
-77	-32.730	3.500
-76	-32.465	3.500
-75	-21.468	3.500
-74	-23.188	3.500
-73	-29.877	3.500
-72	-26.037	3.500
-71	-26.359	3.500
-70	-28.011	3.500
-69	-19.459	3.500
-68	-20.874	3.500
-67	-21.246	3.500
-66	-20.213	3.500
-65	-22.735	3.500
-64	-19.397	3.500
-63	-16.345	3.500
-62	-18.127	3.500
-61	-30.142	3.500
-60	-31.248	3.500
-59	-15.115	3.500
-58	-11.518	3.500

-57	-28.659	3.500
-56	-12.211	3.500
-55	-9.919	3.500
-54	-7.411	3.500
-53	-7.312	3.500
-52	-4.207	3.500
-51	-4.338	3.500
-50	-5.340	3.500
-49	-8.930	3.500
-48	-14.008	3.500
-47	-7.976	3.500
-46	-6.224	3.500
-45	-6.417	3.500
-44	-5.361	3.500
-43	-12.592	3.500
-42	-12.659	3.500
-41	-3.144	3.500
-40	-1.399	3.500
-39	-1.470	3.500
-38	-8.116	3.500
-37	-20.053	3.500
-36	-8.332	3.500
-35	-2.135	3.500
-34	-0.320	3.500
-33	-0.510	3.500
-32	-1.858	3.500
-31	-4.322	3.500
-30	-19.275	3.500
-29	-5.894	3.500
-28	-2.576	3.500
-27	-4.322	3.500
-26	-1.015	3.500
-25	0.319	3.500
-24	-3.367	3.500
-23	-14.503	3.500
-22	-2.934	3.500
-21	-8.817	3.500
-20	-3.102	3.500
-19	-12.940	3.531
-18	-4.094	4.118
-17	-0.831	4.739

-16	-2.006	5.397
-15	-8.092	6.098
-14	-5.652	6.847
-13	-4.024	7.651
-12	-0.043	8.520
-11	-0.117	9.465
-10	1.190	10.500
-9	-0.933	11.500
-8	-8.754	11.500
-7	3.431	11.373
-6	3.147	13.046
-5	6.720	15.026
-4	12.400	17.449
-3	4.436	20.572
-2	12.877	24.974
-1	28.234	
-1.00044E-11	51.620	
1	17.828	
2	10.753	24.974
3	6.583	20.572
4	3.407	17.449
5	3.382	15.026
6	-0.036	13.046
7	-9.561	11.373
8	-7.804	11.500
9	-2.895	11.500
10	-9.899	10.500
11	-12.857	9.465
12	0.735	8.520
13	-3.086	7.651
14	-12.360	6.847
15	-2.780	6.098
16	-11.533	5.397
17	-11.714	4.739
18	-8.042	4.118
19	-14.081	3.531
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22	-21.161	3.500
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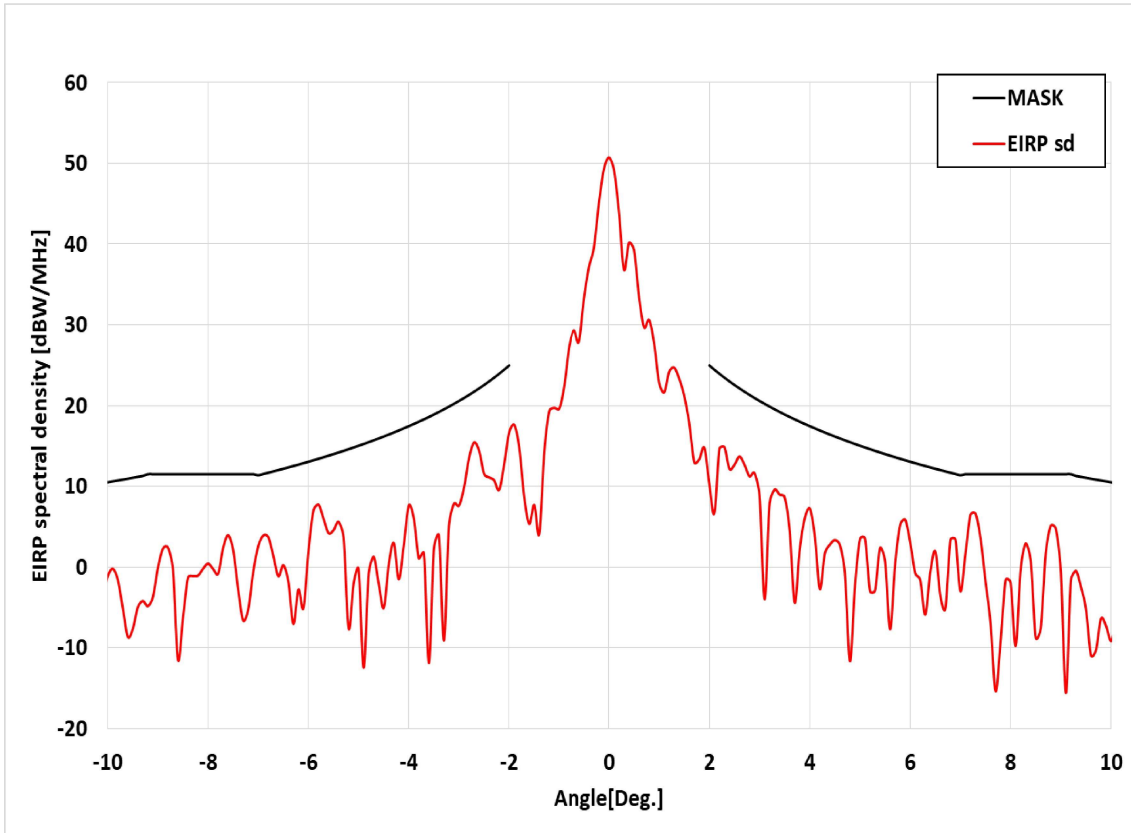
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31	-14.326	3.500
32	-16.889	3.500
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42	-8.676	3.500
43	-17.037	3.500
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45	-14.884	3.500
46	-19.716	3.500
47	-10.389	3.500
48	-17.805	3.500
49	-14.716	3.500
50	-11.534	3.500
51	-16.373	3.500
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53	-11.704	3.500
54	-15.818	3.500
55	-13.972	3.500
56	-11.352	3.500
57	-17.691	3.500
58	-12.453	3.500
59	-19.354	3.500
60	-21.678	3.500
61	-28.392	3.500
62	-15.815	3.500
63	-15.597	3.500
64	-22.246	3.500
65	-16.573	3.500

66	-12.181	3.500
67	-10.559	3.500
68	-24.048	3.500
69	-22.765	3.500
70	-22.697	3.500
71	-15.628	3.500
72	-22.615	3.500
73	-25.511	3.500
74	-18.766	3.500
75	-19.469	3.500
76	-10.683	3.500
77	-18.119	3.500
78	-15.686	3.500
79	-11.603	3.500
80	-12.992	3.500
81	-13.528	3.500
82	-11.897	3.500
83	-21.167	3.500
84	-17.589	3.500
85	-16.566	3.500
86	-14.537	3.500
87	-33.293	3.500
88	-18.232	3.500
89	-29.954	3.500
90	-25.509	3.500
91	-25.909	3.500
92	-26.966	3.500
93	-25.383	3.500
94	-20.325	3.500
95	-31.185	3.500
96	-28.117	3.500
97	-36.698	3.500
98	-26.467	3.500
99	-27.631	3.500
100	-31.084	3.500
101	-26.765	3.500
102	-27.934	3.500
103	-28.324	3.500
104	-23.244	3.500
105	-23.645	3.500
106	-29.316	3.500

107	-25.985	3.500
108	-28.593	3.500
109	-30.993	3.500
110	-30.372	3.500
111	-33.479	3.500
112	-27.585	3.500
113	-32.536	3.500
114	-28.865	3.500
115	-38.570	3.500
116	-35.287	3.500
117	-34.497	3.500
118	-34.216	3.500
119	-31.446	3.500
120	-26.333	3.500
121	-23.510	3.500
122	-27.147	3.500
123	-36.571	3.500
124	-27.945	3.500
125	-28.295	3.500
126	-32.102	3.500
127	-28.888	3.500
128	-34.260	3.500
129	-35.399	3.500
130	-38.612	3.500
131	-36.056	3.500
132	-38.776	3.500
133	-32.892	3.500
134	-36.177	3.500
135	-52.143	3.500
136	-38.486	3.500
137	-37.568	3.500
138	-34.030	3.500
139	-33.963	3.500
140	-43.707	3.500
141	-37.280	3.500
142	-37.125	3.500
143	-35.692	3.500
144	-44.857	3.500
145	-36.932	3.500
146	-39.076	3.500
147	-44.724	3.500

148	-39.581	3.500
149	-41.964	3.500
150	-39.104	3.500
151	-42.395	3.500
152	-43.254	3.500
153	-40.224	3.500
154	-55.056	3.500
155	-40.479	3.500
156	-46.736	3.500
157	-38.768	3.500
158	-47.026	3.500
159	-50.115	3.500
160	-36.805	3.500
161	-49.100	3.500
162	-45.154	3.500
163	-41.812	3.500
164	-43.312	3.500
165	-50.737	3.500
166	-44.124	3.500
167	-47.049	3.500
168	-50.379	3.500
169	-43.411	3.500
170	-50.433	3.500
171	-48.497	3.500
172	-50.529	3.500
173	-58.589	3.500
174	-53.233	3.500
175	-43.756	3.500
176	-48.031	3.500
177	-55.682	3.500
178	-55.607	3.500
179	-59.629	3.500
180	-65.680	3.500

1.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

2.2. Azimuth Pattern for Co-pol (-10°~10°)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-1.171	10.500
-9.9	-0.219	10.609
-9.8	-1.547	10.719
-9.7	-5.096	10.831
-9.6	-8.650	10.943
-9.5	-7.659	11.057
-9.4	-4.980	11.172
-9.3	-4.216	11.288
-9.2	-4.844	11.500
-9.1	-3.749	11.500
-9	-0.102	11.500
-8.9	2.260	11.500
-8.8	2.392	11.500
-8.7	-0.342	11.500
-8.6	-11.488	11.500
-8.5	-6.286	11.500
-8.4	-1.317	11.500
-8.3	-1.131	11.500
-8.2	-1.064	11.500
-8.1	-0.222	11.500
-8	0.423	11.500
-7.9	-0.254	11.500
-7.8	-0.816	11.500
-7.7	2.378	11.500
-7.6	3.925	11.500
-7.5	2.107	11.500
-7.4	-2.818	11.500
-7.3	-6.633	11.500
-7.2	-5.284	11.500
-7.1	-0.578	11.500
-7	2.603	11.373
-6.9	3.891	11.529
-6.8	3.692	11.687
-6.7	1.379	11.848
-6.6	-1.145	12.011
-6.5	0.221	12.177
-6.4	-1.818	12.346
-6.3	-7.023	12.516
-6.2	-2.803	12.690
-6.1	-5.099	12.867
-6	1.954	13.046

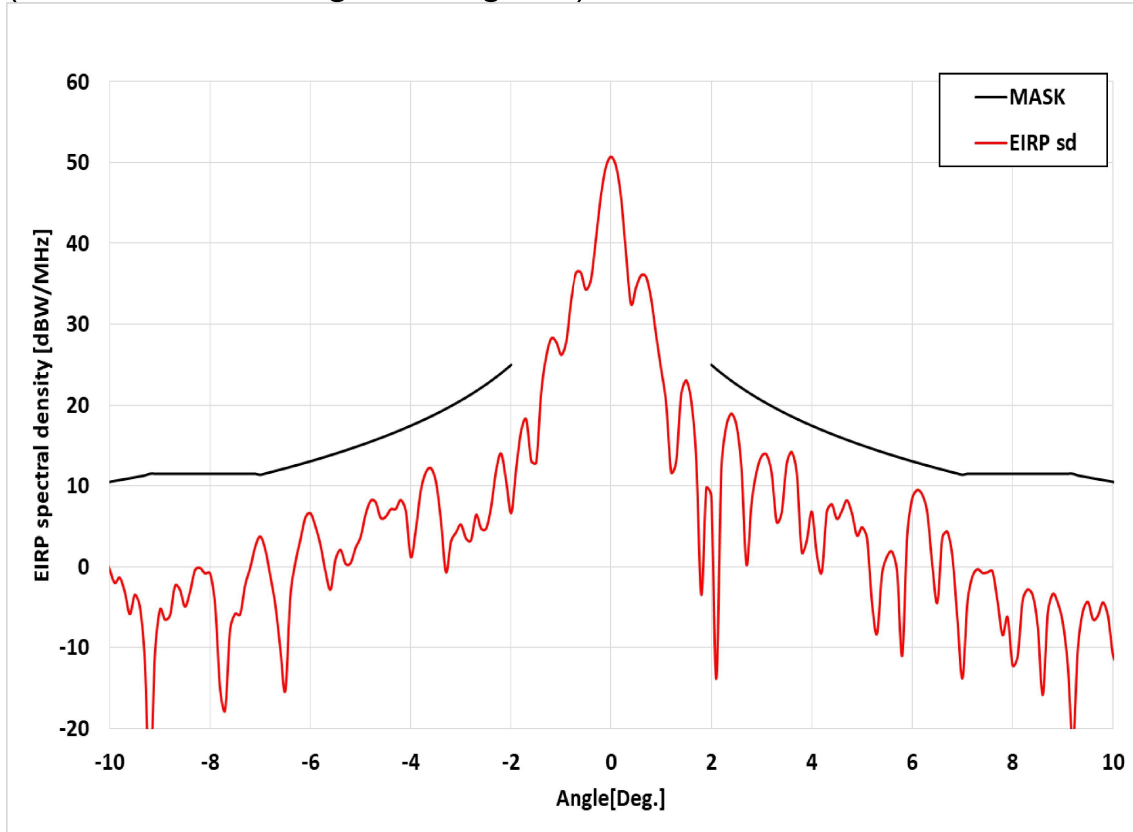
-5.9	6.994	13.229
-5.8	7.730	13.414
-5.7	5.974	13.603
-5.6	4.203	13.795
-5.5	4.567	13.991
-5.4	5.585	14.190
-5.3	3.652	14.393
-5.2	-7.612	14.600
-5.1	-2.063	14.811
-5	-0.327	15.026
-4.9	-12.479	15.245
-4.8	-0.819	15.469
-4.7	1.269	15.698
-4.6	-2.112	15.931
-4.5	-5.066	16.170
-4.4	0.331	16.414
-4.3	2.954	16.663
-4.2	-1.519	16.919
-4.1	2.710	17.180
-4	7.628	17.449
-3.9	6.002	17.723
-3.8	1.039	18.005
-3.7	1.720	18.295
-3.6	-11.880	18.592
-3.5	2.293	18.898
-3.4	3.894	19.213
-3.3	-9.110	19.537
-3.2	5.132	19.871
-3.1	7.831	20.216
-3	7.601	20.572
-2.9	9.856	20.940
-2.8	13.509	21.321
-2.7	15.427	21.716
-2.6	14.406	22.126
-2.5	11.536	22.551
-2.4	11.109	22.995
-2.3	10.741	23.457
-2.2	9.552	23.939
-2.1	12.717	24.445
-2	16.719	24.974
-1.9	17.614	

-1.8	14.798	
-1.7	8.632	
-1.6	5.347	
-1.5	7.684	
-1.4	4.092	
-1.3	14.251	
-1.2	19.331	
-1.1	19.716	
-1	19.651	
-0.9	22.495	
-0.8	27.350	
-0.7	29.303	
-0.6	27.906	
-0.5	33.140	
-0.4	37.107	
-0.3	39.552	
-0.2	45.055	
-0.1	49.287	
-1.00044E-11	50.720	
0.1	49.211	
0.2	43.965	
0.3	36.815	
0.4	40.160	
0.5	39.239	
0.6	33.404	
0.7	29.701	
0.8	30.590	
0.9	27.696	
1	22.807	
1.1	21.623	
1.2	24.175	
1.3	24.691	
1.4	23.320	
1.5	21.192	
1.6	17.781	
1.7	12.971	
1.8	13.353	
1.9	14.768	
2	10.294	24.974
2.1	6.656	24.445
2.2	14.632	23.939

2.3	14.869	23.457
2.4	12.183	22.995
2.5	12.661	22.551
2.6	13.691	22.126
2.7	12.658	21.716
2.8	11.241	21.321
2.9	11.621	20.940
3	8.816	20.572
3.1	-3.976	20.216
3.2	7.904	19.871
3.3	9.577	19.537
3.4	8.960	19.213
3.5	8.636	18.898
3.6	4.503	18.592
3.7	-4.429	18.295
3.8	2.145	18.005
3.9	6.032	17.723
4	7.237	17.449
4.1	3.807	17.180
4.2	-2.717	16.919
4.3	1.670	16.663
4.4	2.761	16.414
4.5	3.328	16.170
4.6	2.754	15.931
4.7	-0.854	15.698
4.8	-11.652	15.469
4.9	-2.313	15.245
5	3.467	15.026
5.1	3.515	14.811
5.2	-2.972	14.600
5.3	-2.909	14.393
5.4	2.354	14.190
5.5	0.730	13.991
5.6	-7.703	13.795
5.7	0.369	13.603
5.8	5.231	13.414
5.9	5.865	13.229
6	3.015	13.046
6.1	-0.748	12.867
6.2	-1.614	12.690
6.3	-5.892	12.516

6.4	-0.695	12.346
6.5	1.920	12.177
6.6	-3.559	12.011
6.7	-5.140	11.848
6.8	3.325	11.687
6.9	3.419	11.529
7	-3.002	11.373
7.1	1.609	11.500
7.2	6.451	11.500
7.3	6.621	11.500
7.4	3.548	11.500
7.5	-1.795	11.500
7.6	-6.991	11.500
7.7	-15.376	11.500
7.8	-9.247	11.500
7.9	-1.622	11.500
8	-1.932	11.500
8.1	-9.782	11.500
8.2	-0.271	11.500
8.3	2.920	11.500
8.4	0.772	11.500
8.5	-8.770	11.500
8.6	-7.602	11.500
8.7	1.694	11.500
8.8	5.122	11.500
8.9	4.747	11.500
9	-0.599	11.500
9.1	-15.602	11.500
9.2	-1.635	11.500
9.3	-0.476	11.288
9.4	-2.460	11.172
9.5	-5.211	11.057
9.6	-10.926	10.943
9.7	-10.317	10.831
9.8	-6.413	10.719
9.9	-7.298	10.609
10	-9.156	10.500

3.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

4.2. Azimuth Pattern for Co-pol (-10°~10°) (Maximum skew angle 45 degrees)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-0.384	10.500
-9.9	-2.009	10.609
-9.8	-1.376	10.719
-9.7	-3.136	10.831
-9.6	-5.871	10.943
-9.5	-3.493	11.057
-9.4	-4.900	11.172
-9.3	-11.672	11.288
-9.2	-28.277	11.500
-9.1	-10.983	11.500
-9	-5.358	11.500
-8.9	-6.544	11.500
-8.8	-6.031	11.500
-8.7	-2.404	11.500
-8.6	-2.847	11.500
-8.5	-4.939	11.500
-8.4	-3.116	11.500
-8.3	-0.428	11.500
-8.2	-0.167	11.500
-8.1	-0.837	11.500
-8	-0.850	11.500
-7.9	-4.771	11.500
-7.8	-15.172	11.500
-7.7	-17.740	11.500
-7.6	-7.712	11.500
-7.5	-5.835	11.500
-7.4	-5.887	11.500
-7.3	-2.277	11.500
-7.2	-0.150	11.500
-7.1	2.472	11.500
-7	3.731	11.373
-6.9	2.096	11.529
-6.8	-1.160	11.687
-6.7	-4.737	11.848
-6.6	-10.195	12.011
-6.5	-15.346	12.177
-6.4	-3.739	12.346
-6.3	0.504	12.516
-6.2	3.353	12.690
-6.1	6.089	12.867
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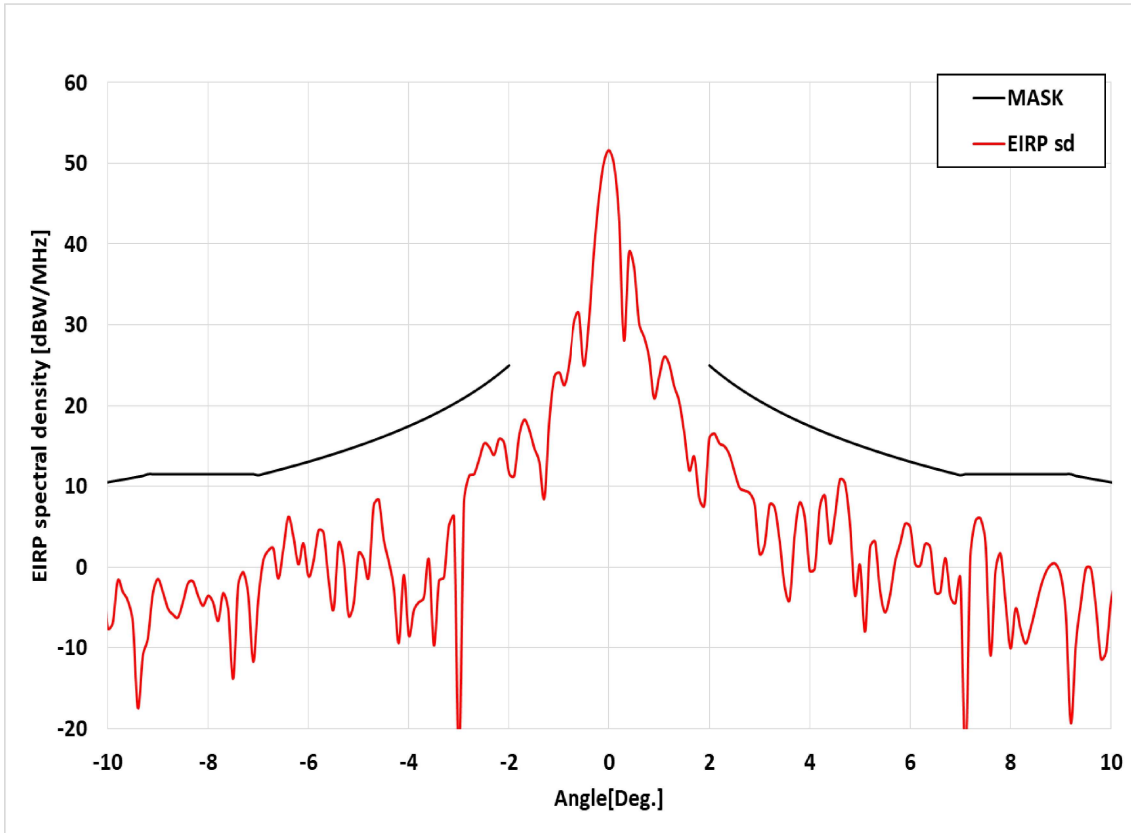
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-5.6	-2.829	13.795
-5.5	0.926	13.991
-5.4	2.060	14.190
-5.3	0.356	14.393
-5.2	0.439	14.600
-5.1	2.331	14.811
-5	3.680	15.026
-4.9	6.478	15.245
-4.8	8.141	15.469
-4.7	7.966	15.698
-4.6	6.031	15.931
-4.5	6.176	16.170
-4.4	7.103	16.414
-4.3	7.141	16.663
-4.2	8.232	16.919
-4.1	6.912	17.180
-4	1.205	17.449
-3.9	4.575	17.723
-3.8	9.403	18.005
-3.7	11.695	18.295
-3.6	12.199	18.592
-3.5	10.527	18.898
-3.4	5.673	19.213
-3.3	-0.681	19.537
-3.2	3.092	19.871
-3.1	4.211	20.216
-3	5.189	20.572
-2.9	3.482	20.940
-2.8	3.277	21.321
-2.7	6.394	21.716
-2.6	4.721	22.126
-2.5	4.706	22.551
-2.4	7.382	22.995
-2.3	11.901	23.457
-2.2	14.000	23.939
-2.1	10.608	24.445
-2	6.644	24.974
-1.9	12.172	

-1.8	16.854	
-1.7	18.215	
-1.6	13.078	
-1.5	12.924	
-1.4	21.626	
-1.3	26.046	
-1.2	28.224	
-1.1	27.754	
-1	26.210	
-0.9	27.890	
-0.8	33.141	
-0.7	36.296	
-0.6	36.394	
-0.5	34.276	
-0.4	35.411	
-0.3	40.485	
-0.2	45.852	
-0.1	49.453	
-1.00044E-11	50.720	
0.1	49.603	
0.2	45.805	
0.3	38.865	
0.4	32.521	
0.5	34.562	
0.6	36.036	
0.7	35.853	
0.8	33.174	
0.9	28.649	
1	24.457	
1.1	20.216	
1.2	11.721	
1.3	12.969	
1.4	21.330	
1.5	23.038	
1.6	20.487	
1.7	13.141	
1.8	-3.472	
1.9	9.735	
2	8.735	24.974
2.1	-13.874	24.445
2.2	12.089	23.939

2.3	17.464	23.457
2.4	18.941	22.995
2.5	17.533	22.551
2.6	12.155	22.126
2.7	0.237	21.716
2.8	7.737	21.321
2.9	11.703	20.940
3	13.652	20.572
3.1	13.849	20.216
3.2	11.632	19.871
3.3	5.537	19.537
3.4	6.634	19.213
3.5	12.698	18.898
3.6	14.192	18.592
3.7	11.698	18.295
3.8	1.865	18.005
3.9	3.192	17.723
4	6.790	17.449
4.1	1.547	17.180
4.2	-0.656	16.919
4.3	6.799	16.663
4.4	7.709	16.414
4.5	5.913	16.170
4.6	6.873	15.931
4.7	8.196	15.698
4.8	6.584	15.469
4.9	3.860	15.245
5	4.870	15.026
5.1	3.527	14.811
5.2	-4.478	14.600
5.3	-8.285	14.393
5.4	-0.866	14.190
5.5	1.246	13.991
5.6	1.821	13.795
5.7	-0.617	13.603
5.8	-11.010	13.414
5.9	3.778	13.229
6	8.431	13.046
6.1	9.472	12.867
6.2	8.927	12.690
6.3	6.726	12.516

6.4	0.308	12.346
6.5	-4.451	12.177
6.6	3.606	12.011
6.7	4.321	11.848
6.8	1.256	11.687
6.9	-6.477	11.529
7	-13.821	11.373
7.1	-4.447	11.500
7.2	-1.205	11.500
7.3	-0.315	11.500
7.4	-0.776	11.500
7.5	-0.706	11.500
7.6	-0.610	11.500
7.7	-4.288	11.500
7.8	-8.455	11.500
7.9	-6.281	11.500
8	-12.202	11.500
8.1	-11.147	11.500
8.2	-4.127	11.500
8.3	-2.818	11.500
8.4	-3.541	11.500
8.5	-7.368	11.500
8.6	-15.865	11.500
8.7	-5.743	11.500
8.8	-3.369	11.500
8.9	-4.486	11.500
9	-6.952	11.500
9.1	-12.378	11.500
9.2	-21.841	11.500
9.3	-10.103	11.288
9.4	-5.515	11.172
9.5	-4.366	11.057
9.6	-6.482	10.943
9.7	-6.063	10.831
9.8	-4.441	10.719
9.9	-6.116	10.609
10	-11.008	10.500

9.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

10.2. Azimuth Pattern for Co-pol (-10°~10°)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-7.560	10.500
-9.9	-6.957	10.609
-9.8	-1.712	10.719
-9.7	-3.090	10.831
-9.6	-4.183	10.943
-9.5	-6.851	11.057
-9.4	-17.433	11.172
-9.3	-11.029	11.288
-9.2	-8.838	11.500
-9.1	-3.271	11.500
-9	-1.492	11.500
-8.9	-3.109	11.500
-8.8	-5.147	11.500
-8.7	-5.887	11.500
-8.6	-6.228	11.500
-8.5	-4.331	11.500
-8.4	-2.017	11.500
-8.3	-1.792	11.500
-8.2	-3.533	11.500
-8.1	-4.787	11.500
-8	-3.580	11.500
-7.9	-4.402	11.500
-7.8	-6.658	11.500
-7.7	-3.246	11.500
-7.6	-5.223	11.500
-7.5	-13.816	11.500
-7.4	-2.260	11.500
-7.3	-0.627	11.500
-7.2	-3.375	11.500
-7.1	-11.744	11.500
-7	-4.039	11.373
-6.9	0.823	11.529
-6.8	2.029	11.687
-6.7	2.300	11.848
-6.6	-1.408	12.011
-6.5	2.225	12.177
-6.4	6.204	12.346
-6.3	3.769	12.516
-6.2	0.346	12.690
-6.1	2.930	12.867
-6	-1.134	13.046

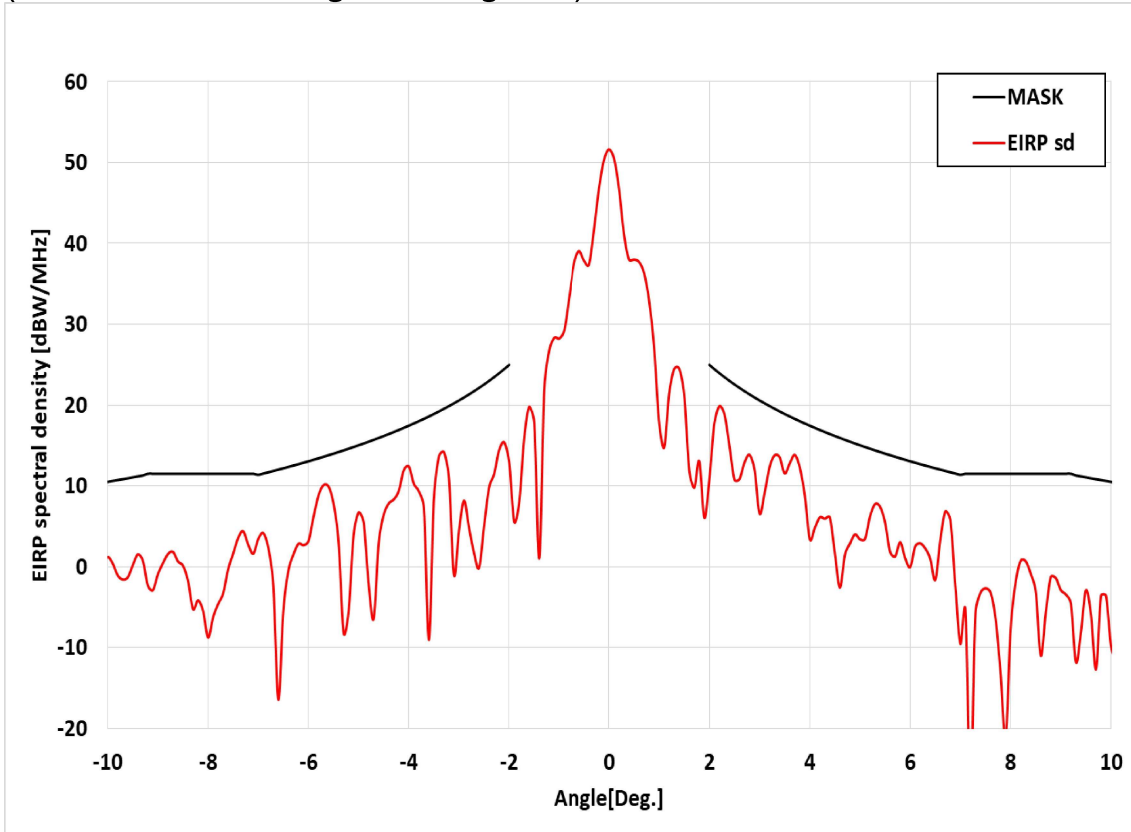
-5.9	0.678	13.229
-5.8	4.522	13.414
-5.7	4.247	13.603
-5.6	-1.481	13.795
-5.5	-5.253	13.991
-5.4	2.929	14.190
-5.3	0.873	14.393
-5.2	-6.015	14.600
-5.1	-4.589	14.811
-5	1.716	15.026
-4.9	1.058	15.245
-4.8	-1.256	15.469
-4.7	7.595	15.698
-4.6	8.332	15.931
-4.5	3.397	16.170
-4.4	0.665	16.414
-4.3	-2.601	16.663
-4.2	-9.426	16.919
-4.1	-1.001	17.180
-4	-8.479	17.449
-3.9	-5.379	17.723
-3.8	-4.366	18.005
-3.7	-3.764	18.295
-3.6	0.916	18.592
-3.5	-9.690	18.898
-3.4	-1.781	19.213
-3.3	-1.266	19.537
-3.2	5.133	19.871
-3.1	6.218	20.216
-3	-23.798	20.572
-2.9	8.051	20.940
-2.8	11.255	21.321
-2.7	11.503	21.716
-2.6	13.319	22.126
-2.5	15.290	22.551
-2.4	14.882	22.995
-2.3	13.913	23.457
-2.2	15.872	23.939
-2.1	15.377	24.445
-2	11.562	24.974
-1.9	11.331	

-1.8	16.324	
-1.7	18.234	
-1.6	16.981	
-1.5	14.723	
-1.4	13.024	
-1.3	8.502	
-1.2	18.105	
-1.1	23.591	
-1	24.097	
-0.9	22.529	
-0.8	25.220	
-0.7	30.224	
-0.6	31.420	
-0.5	24.936	
-0.4	30.317	
-0.3	38.944	
-0.2	45.686	
-0.1	50.114	
-1.00044E-11	51.621	
0.1	49.900	
0.2	43.425	
0.3	28.073	
0.4	38.870	
0.5	37.102	
0.6	30.249	
0.7	28.492	
0.8	25.930	
0.9	20.928	
1	23.549	
1.1	26.016	
1.2	25.143	
1.3	22.420	
1.4	20.478	
1.5	16.620	
1.6	11.977	
1.7	13.648	
1.8	8.517	
1.9	7.627	
2	15.948	24.974
2.1	16.535	24.445
2.2	15.323	23.939

2.3	14.960	23.457
2.4	13.925	22.995
2.5	11.819	22.551
2.6	9.836	22.126
2.7	9.456	21.716
2.8	9.156	21.321
2.9	7.858	20.940
3	1.672	20.572
3.1	2.739	20.216
3.2	7.681	19.871
3.3	7.377	19.537
3.4	3.249	19.213
3.5	-2.391	18.898
3.6	-4.043	18.592
3.7	3.973	18.295
3.8	7.992	18.005
3.9	6.166	17.723
4	-0.431	17.449
4.1	-0.150	17.180
4.2	7.412	16.919
4.3	8.838	16.663
4.4	2.927	16.414
4.5	6.252	16.170
4.6	10.806	15.931
4.7	10.415	15.698
4.8	5.323	15.469
4.9	-3.506	15.245
5	0.254	15.026
5.1	-7.985	14.811
5.2	2.394	14.600
5.3	3.173	14.393
5.4	-2.885	14.190
5.5	-5.605	13.991
5.6	-3.404	13.795
5.7	0.646	13.603
5.8	2.917	13.414
5.9	5.359	13.229
6	4.953	13.046
6.1	0.367	12.867
6.2	0.172	12.690
6.3	2.862	12.516

6.4	2.454	12.346
6.5	-3.092	12.177
6.6	-3.094	12.011
6.7	1.090	11.848
6.8	-3.642	11.687
6.9	-4.471	11.529
7	-1.449	11.373
7.1	-23.797	11.500
7.2	1.322	11.500
7.3	5.695	11.500
7.4	6.009	11.500
7.5	2.970	11.500
7.6	-10.928	11.500
7.7	-0.438	11.500
7.8	1.644	11.500
7.9	-4.435	11.500
8	-10.069	11.500
8.1	-5.140	11.500
8.2	-7.753	11.500
8.3	-9.480	11.500
8.4	-7.549	11.500
8.5	-5.025	11.500
8.6	-2.459	11.500
8.7	-0.678	11.500
8.8	0.262	11.500
8.9	0.354	11.500
9	-1.060	11.500
9.1	-5.959	11.500
9.2	-19.329	11.500
9.3	-9.521	11.288
9.4	-4.432	11.172
9.5	-0.173	11.057
9.6	-0.221	10.943
9.7	-5.020	10.831
9.8	-11.349	10.719
9.9	-10.537	10.609
10	-4.157	10.500

11.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$32.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
11.5	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$35.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
3.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

12.2. Azimuth Pattern for Co-pol (-10°~10°) (Maximum skew angle 45 degrees)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	1.190	10.500
-9.9	0.381	10.609
-9.8	-1.080	10.719
-9.7	-1.588	10.831
-9.6	-1.312	10.943
-9.5	0.192	11.057
-9.4	1.521	11.172
-9.3	0.754	11.288
-9.2	-2.323	11.500
-9.1	-2.913	11.500
-9	-0.933	11.500
-8.9	0.431	11.500
-8.8	1.560	11.500
-8.7	1.826	11.500
-8.6	0.639	11.500
-8.5	0.115	11.500
-8.4	-1.756	11.500
-8.3	-5.232	11.500
-8.2	-4.169	11.500
-8.1	-5.444	11.500
-8	-8.754	11.500
-7.9	-6.230	11.500
-7.8	-4.619	11.500
-7.7	-3.300	11.500
-7.6	-0.306	11.500
-7.5	1.620	11.500
-7.4	3.560	11.500
-7.3	4.373	11.500
-7.2	2.722	11.500
-7.1	1.599	11.500
-7	3.431	11.373
-6.9	4.141	11.529
-6.8	2.320	11.687
-6.7	-2.365	11.848
-6.6	-16.446	12.011
-6.5	-5.476	12.177
-6.4	-0.526	12.346
-6.3	1.495	12.516
-6.2	2.825	12.690
-6.1	2.672	12.867
-6	3.147	13.046

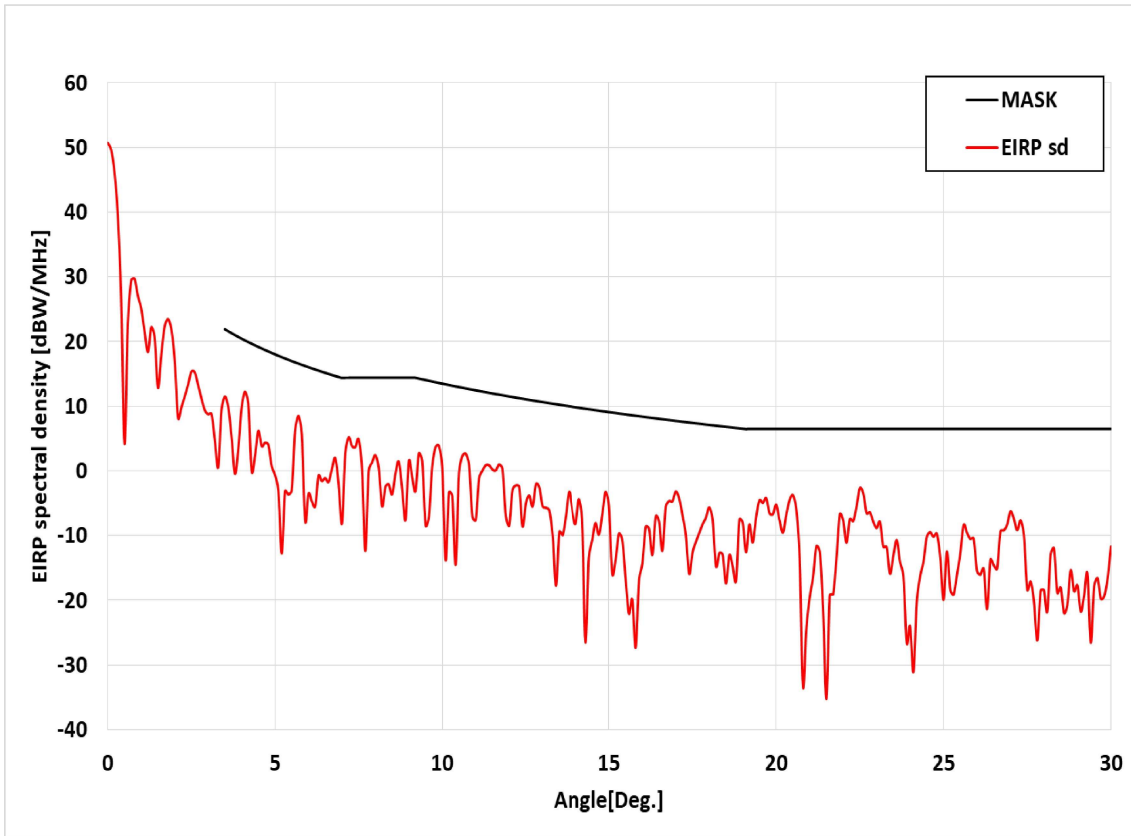
-5.9	6.123	13.229
-5.8	8.814	13.414
-5.7	10.091	13.603
-5.6	9.923	13.795
-5.5	7.800	13.991
-5.4	2.928	14.190
-5.3	-8.191	14.393
-5.2	-5.491	14.600
-5.1	3.913	14.811
-5	6.720	15.026
-4.9	5.508	15.245
-4.8	-2.216	15.469
-4.7	-6.416	15.698
-4.6	2.976	15.931
-4.5	6.430	16.170
-4.4	7.828	16.414
-4.3	8.316	16.663
-4.2	9.377	16.919
-4.1	11.944	17.180
-4	12.400	17.449
-3.9	10.279	17.723
-3.8	9.317	18.005
-3.7	7.281	18.295
-3.6	-9.054	18.592
-3.5	8.461	18.898
-3.4	13.662	19.213
-3.3	14.184	19.537
-3.2	10.936	19.871
-3.1	-1.033	20.216
-3	4.436	20.572
-2.9	8.161	20.940
-2.8	4.781	21.321
-2.7	1.653	21.716
-2.6	-0.122	22.126
-2.5	5.067	22.551
-2.4	9.804	22.995
-2.3	11.470	23.457
-2.2	14.431	23.939
-2.1	15.390	24.445
-2	12.877	24.974
-1.9	5.548	

-1.8	7.985	
-1.7	15.954	
-1.6	19.790	
-1.5	17.773	
-1.4	1.031	
-1.3	21.955	
-1.2	26.822	
-1.1	28.320	
-1	28.234	
-0.9	29.263	
-0.8	33.354	
-0.7	37.461	
-0.6	39.041	
-0.5	37.890	
-0.4	37.339	
-0.3	41.616	
-0.2	46.716	
-0.1	50.280	
-1.00044E-11	51.620	
0.1	50.535	
0.2	46.811	
0.3	41.157	
0.4	38.016	
0.5	37.991	
0.6	37.695	
0.7	36.312	
0.8	32.896	
0.9	27.071	
1	17.828	
1.1	14.746	
1.2	21.382	
1.3	24.455	
1.4	24.508	
1.5	21.182	
1.6	11.866	
1.7	9.765	
1.8	13.052	
1.9	6.070	
2	10.753	24.974
2.1	17.716	24.445
2.2	19.859	23.939

2.3	18.874	23.457
2.4	14.960	22.995
2.5	10.781	22.551
2.6	10.838	22.126
2.7	12.890	21.716
2.8	13.830	21.321
2.9	12.029	20.940
3	6.583	20.572
3.1	9.124	20.216
3.2	12.339	19.871
3.3	13.778	19.537
3.4	13.546	19.213
3.5	11.552	18.898
3.6	12.756	18.592
3.7	13.831	18.295
3.8	12.313	18.005
3.9	8.851	17.723
4	3.407	17.449
4.1	4.801	17.180
4.2	6.089	16.919
4.3	5.930	16.663
4.4	6.077	16.414
4.5	1.677	16.170
4.6	-2.580	15.931
4.7	1.457	15.698
4.8	2.862	15.469
4.9	3.981	15.245
5	3.382	15.026
5.1	3.438	14.811
5.2	6.216	14.600
5.3	7.745	14.393
5.4	7.420	14.190
5.5	5.467	13.991
5.6	1.814	13.795
5.7	1.259	13.603
5.8	3.018	13.414
5.9	1.041	13.229
6	-0.036	13.046
6.1	2.511	12.867
6.2	2.877	12.690
6.3	2.259	12.516

6.4	0.968	12.346
6.5	-1.628	12.177
6.6	3.324	12.011
6.7	6.833	11.848
6.8	5.768	11.687
6.9	-2.487	11.529
7	-9.561	11.373
7.1	-5.406	11.500
7.2	-27.411	11.500
7.3	-5.784	11.500
7.4	-3.218	11.500
7.5	-2.688	11.500
7.6	-3.191	11.500
7.7	-6.405	11.500
7.8	-13.146	11.500
7.9	-21.347	11.500
8	-7.804	11.500
8.1	-1.920	11.500
8.2	0.721	11.500
8.3	0.676	11.500
8.4	-0.871	11.500
8.5	-3.071	11.500
8.6	-11.003	11.500
8.7	-5.715	11.500
8.8	-1.295	11.500
8.9	-1.413	11.500
9	-2.895	11.500
9.1	-3.450	11.500
9.2	-4.550	11.500
9.3	-11.810	11.288
9.4	-8.114	11.172
9.5	-2.923	11.057
9.6	-5.917	10.943
9.7	-12.698	10.831
9.8	-3.620	10.719
9.9	-3.617	10.609
10	-9.899	10.500

1.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$35.5-25\log(\theta)$	dBW/MHz	for	$3.5^\circ \leq \theta \leq 7.0^\circ$
14.4	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$38.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
6.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

2.4. Elevation Pattern for Co-pol (0°~30°)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	50.720	
0.1	49.640	
0.2	46.191	
0.3	39.490	
0.4	26.619	
0.5	4.177	
0.6	22.797	
0.7	29.482	
0.8	29.730	
0.9	27.045	
1	25.083	
1.1	21.547	
1.2	18.388	
1.3	22.223	
1.4	20.732	
1.5	12.851	
1.6	17.908	
1.7	22.347	
1.8	23.472	
1.9	21.903	
2	17.004	
2.1	8.242	
2.2	9.830	
2.3	11.518	
2.4	13.344	
2.5	15.351	
2.6	15.252	
2.7	13.306	
2.8	11.219	
2.9	9.409	
3	8.762	
3.1	8.811	
3.2	4.728	
3.3	0.590	
3.4	9.470	
3.5	11.511	21.898
3.6	9.899	21.592
3.7	5.258	21.295
3.8	-0.416	21.005
3.9	3.303	20.723
4	9.683	20.449

4.1	12.245	20.180
4.2	10.480	19.919
4.3	0.005	19.663
4.4	2.334	19.414
4.5	6.197	19.170
4.6	3.847	18.931
4.7	4.355	18.698
4.8	4.050	18.469
4.9	0.756	18.245
5	-0.626	18.026
5.1	-3.109	17.811
5.2	-12.731	17.600
5.3	-3.152	17.393
5.4	-3.646	17.190
5.5	-2.978	16.991
5.6	6.246	16.795
5.7	8.504	16.603
5.8	5.652	16.414
5.9	-7.716	16.229
6	-3.529	16.046
6.1	-4.698	15.867
6.2	-5.492	15.690
6.3	-0.728	15.516
6.4	-1.563	15.346
6.5	-1.101	15.177
6.6	-1.709	15.011
6.7	0.301	14.848
6.8	1.977	14.687
6.9	-2.082	14.529
7	-8.123	14.373
7.1	2.734	14.400
7.2	5.196	14.400
7.3	3.864	14.400
7.4	3.690	14.400
7.5	4.879	14.400
7.6	0.393	14.400
7.7	-12.333	14.400
7.8	0.034	14.400
7.9	1.287	14.400
8	2.438	14.400
8.1	0.450	14.400

8.2	-5.439	14.400
8.3	-2.431	14.400
8.4	-2.075	14.400
8.5	-3.619	14.400
8.6	-0.412	14.400
8.7	1.441	14.400
8.8	-2.797	14.400
8.9	-7.585	14.400
9	1.455	14.400
9.1	-0.968	14.400
9.2	-3.114	14.400
9.3	2.739	14.288
9.4	1.500	14.172
9.5	-8.365	14.057
9.6	-7.046	13.943
9.7	0.769	13.831
9.8	3.693	13.719
9.9	3.871	13.609
10	0.525	13.500
10.1	-13.783	13.392
10.2	-3.335	13.285
10.3	-3.863	13.179
10.4	-14.489	13.074
10.5	-0.294	12.970
10.6	2.315	12.867
10.7	2.688	12.765
10.8	0.949	12.664
10.9	-7.103	12.564
11	-7.598	12.465
11.1	-1.144	12.367
11.2	0.062	12.270
11.3	0.877	12.173
11.4	0.889	12.077
11.5	0.231	11.983
11.6	0.092	11.889
11.7	1.015	11.795
11.8	0.335	11.703
11.9	-6.970	11.611
12	-8.430	11.520
12.1	-2.900	11.430
12.2	-2.223	11.341

12.3	-2.437	11.252
12.4	-8.587	11.164
12.5	-4.975	11.077
12.6	-3.780	10.991
12.7	-5.488	10.905
12.8	-2.050	10.820
12.9	-2.491	10.735
13	-5.446	10.651
13.1	-5.691	10.568
13.2	-6.112	10.486
13.3	-10.105	10.404
13.4	-17.727	10.322
13.5	-9.415	10.242
13.6	-9.924	10.162
13.7	-6.939	10.082
13.8	-3.224	10.003
13.9	-6.301	9.925
14	-8.181	9.847
14.1	-4.357	9.770
14.2	-7.458	9.693
14.3	-26.453	9.617
14.4	-13.464	9.541
14.5	-10.740	9.466
14.6	-8.072	9.391
14.7	-9.855	9.317
14.8	-6.886	9.243
14.9	-3.233	9.170
15	-5.354	9.098
15.1	-15.860	9.026
15.2	-13.745	8.954
15.3	-9.705	8.883
15.4	-10.609	8.812
15.5	-16.623	8.742
15.6	-22.042	8.672
15.7	-19.911	8.603
15.8	-27.306	8.534
15.9	-16.964	8.465
16	-14.335	8.397
16.1	-8.658	8.329
16.2	-8.938	8.262
16.3	-12.952	8.195

16.4	-7.048	8.129
16.5	-7.818	8.063
16.6	-12.327	7.997
16.7	-5.505	7.932
16.8	-4.669	7.867
16.9	-4.688	7.803
17	-3.186	7.739
17.1	-4.262	7.675
17.2	-6.858	7.612
17.3	-10.006	7.549
17.4	-15.887	7.486
17.5	-12.593	7.424
17.6	-10.968	7.362
17.7	-9.595	7.301
17.8	-8.242	7.239
17.9	-7.226	7.179
18	-5.638	7.118
18.1	-7.500	7.058
18.2	-14.676	6.998
18.3	-12.668	6.939
18.4	-12.942	6.880
18.5	-17.363	6.821
18.6	-13.023	6.762
18.7	-14.769	6.704
18.8	-16.949	6.646
18.9	-7.521	6.588
19	-7.953	6.531
19.1	-12.550	6.474
19.2	-8.271	6.500
19.3	-11.054	6.500
19.4	-7.140	6.500
19.5	-4.546	6.500
19.6	-4.941	6.500
19.7	-4.219	6.500
19.8	-6.518	6.500
19.9	-6.687	6.500
20	-5.227	6.500
20.1	-7.642	6.500
20.2	-9.524	6.500
20.3	-6.808	6.500
20.4	-4.490	6.500

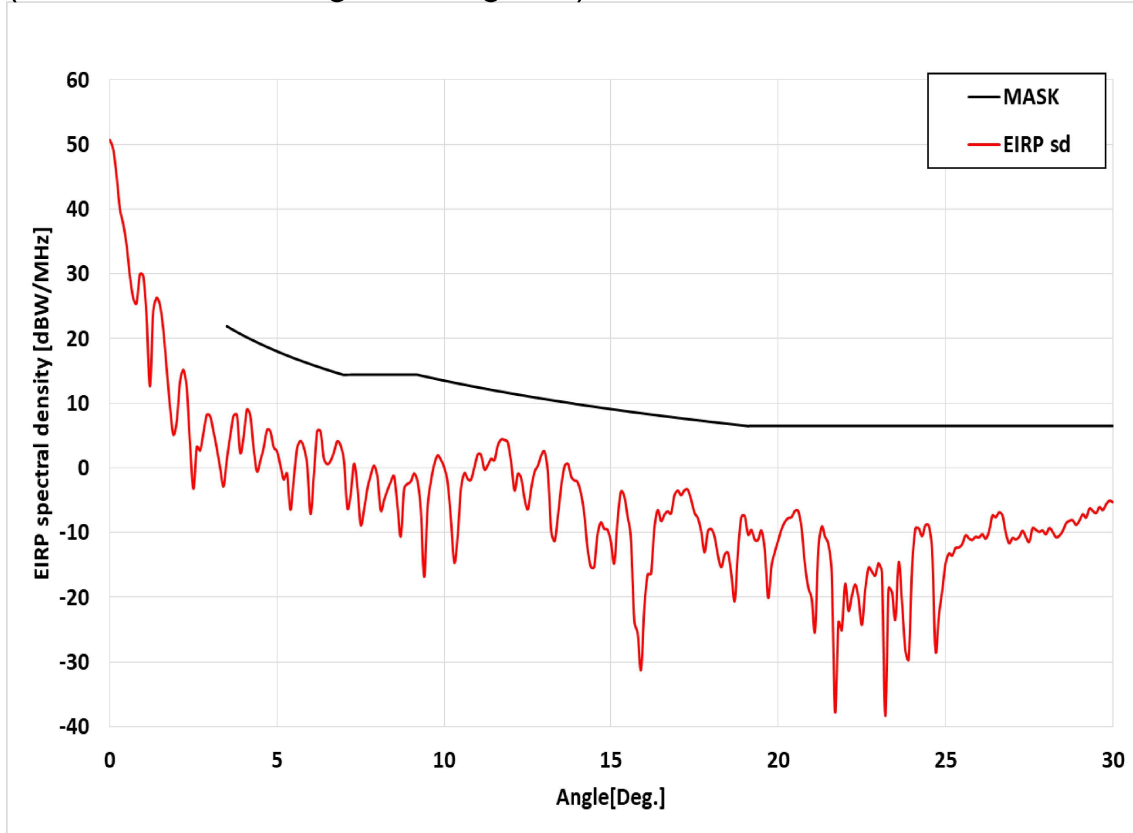
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21	-19.551	6.500
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21.4	-21.133	6.500
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21.7	-19.086	6.500
21.8	-13.587	6.500
21.9	-6.714	6.500
22	-7.615	6.500
22.1	-11.089	6.500
22.2	-7.479	6.500
22.3	-7.745	6.500
22.4	-5.505	6.500
22.5	-2.631	6.500
22.6	-3.413	6.500
22.7	-6.516	6.500
22.8	-6.394	6.500
22.9	-7.843	6.500
23	-8.813	6.500
23.1	-7.881	6.500
23.2	-11.688	6.500
23.3	-11.780	6.500
23.4	-15.882	6.500
23.5	-13.055	6.500
23.6	-10.706	6.500
23.7	-14.109	6.500
23.8	-16.267	6.500
23.9	-26.546	6.500
24	-24.014	6.500
24.1	-31.050	6.500
24.2	-20.267	6.500
24.3	-16.323	6.500
24.4	-14.033	6.500
24.5	-10.193	6.500

24.6	-9.475	6.500
24.7	-10.160	6.500
24.8	-9.709	6.500
24.9	-13.375	6.500
25	-19.921	6.500
25.1	-12.459	6.500
25.2	-18.352	6.500
25.3	-19.116	6.500
25.4	-16.062	6.500
25.5	-12.768	6.500
25.6	-8.370	6.500
25.7	-9.560	6.500
25.8	-10.513	6.500
25.9	-10.454	6.500
26	-15.463	6.500
26.1	-16.040	6.500
26.2	-15.127	6.500
26.3	-21.369	6.500
26.4	-13.744	6.500
26.5	-14.578	6.500
26.6	-15.100	6.500
26.7	-9.342	6.500
26.8	-9.189	6.500
26.9	-8.315	6.500
27	-6.264	6.500
27.1	-7.360	6.500
27.2	-9.141	6.500
27.3	-7.634	6.500
27.4	-9.838	6.500
27.5	-18.326	6.500
27.6	-17.080	6.500
27.7	-20.115	6.500
27.8	-26.185	6.500
27.9	-18.540	6.500
28	-18.423	6.500
28.1	-21.737	6.500
28.2	-12.917	6.500
28.3	-11.959	6.500
28.4	-18.822	6.500
28.5	-17.994	6.500
28.6	-21.976	6.500

28.7	-20.663	6.500
28.8	-15.332	6.500
28.9	-18.580	6.500
29	-17.697	6.500
29.1	-21.724	6.500
29.2	-19.235	6.500
29.3	-15.859	6.500
29.4	-26.546	6.500
29.5	-17.824	6.500
29.6	-16.541	6.500
29.7	-19.703	6.500
29.8	-19.377	6.500
29.9	-16.656	6.500
30	-11.702	6.500

3.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)

(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$35.5-25\log(\theta)$	dBW/MHz	for	$3.5^\circ \leq \theta \leq 7.0^\circ$
14.4	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$38.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
6.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

4.4. Elevation Pattern for Co-pol (0°~30°) (Maximum skew angle 45 degrees)

F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	50.720	
0.1	49.312	
0.2	45.323	
0.3	40.185	
0.4	37.738	
0.5	34.495	
0.6	29.696	
0.7	26.260	
0.8	25.466	
0.9	29.952	
1	29.721	
1.1	23.405	
1.2	12.635	
1.3	24.315	
1.4	26.307	
1.5	25.201	
1.6	21.408	
1.7	15.383	
1.8	9.423	
1.9	5.127	
2	7.160	
2.1	13.351	
2.2	15.155	
2.3	12.461	
2.4	3.583	
2.5	-3.230	
2.6	3.217	
2.7	2.686	
2.8	5.429	
2.9	8.172	
3	7.971	
3.1	5.606	
3.2	2.986	
3.3	-0.045	
3.4	-2.843	
3.5	1.313	21.898
3.6	4.928	21.592
3.7	8.065	21.295
3.8	8.210	21.005
3.9	2.356	20.723
4	4.747	20.449

4.1	9.012	20.180
4.2	8.137	19.919
4.3	3.014	19.663
4.4	-0.527	19.414
4.5	1.106	19.170
4.6	3.147	18.931
4.7	5.844	18.698
4.8	5.666	18.469
4.9	3.216	18.245
5	2.586	18.026
5.1	0.409	17.811
5.2	-1.773	17.600
5.3	-0.902	17.393
5.4	-6.465	17.190
5.5	-1.733	16.991
5.6	3.065	16.795
5.7	4.155	16.603
5.8	3.185	16.414
5.9	0.490	16.229
6	-7.101	16.046
6.1	-1.187	15.867
6.2	5.696	15.690
6.3	5.667	15.516
6.4	1.482	15.346
6.5	0.593	15.177
6.6	1.090	15.011
6.7	2.413	14.848
6.8	4.123	14.687
6.9	3.492	14.529
7	1.125	14.373
7.1	-6.153	14.400
7.2	-4.143	14.400
7.3	0.647	14.400
7.4	-2.746	14.400
7.5	-8.775	14.400
7.6	-6.506	14.400
7.7	-3.239	14.400
7.8	-1.156	14.400
7.9	0.337	14.400
8	-1.297	14.400
8.1	-6.539	14.400

8.2	-4.974	14.400
8.3	-3.423	14.400
8.4	-2.157	14.400
8.5	-1.293	14.400
8.6	-5.823	14.400
8.7	-10.576	14.400
8.8	-3.189	14.400
8.9	-2.474	14.400
9	-2.089	14.400
9.1	-0.866	14.400
9.2	-2.045	14.400
9.3	-6.464	14.288
9.4	-16.791	14.172
9.5	-6.127	14.057
9.6	-2.024	13.943
9.7	0.551	13.831
9.8	1.922	13.719
9.9	1.241	13.609
10	0.050	13.500
10.1	-2.250	13.392
10.2	-8.062	13.285
10.3	-14.613	13.179
10.4	-10.542	13.074
10.5	-3.150	12.970
10.6	-0.831	12.867
10.7	-1.693	12.765
10.8	-1.783	12.664
10.9	0.131	12.564
11	2.085	12.465
11.1	2.005	12.367
11.2	-0.208	12.270
11.3	0.425	12.173
11.4	1.403	12.077
11.5	1.221	11.983
11.6	3.450	11.889
11.7	4.396	11.795
11.8	4.328	11.703
11.9	3.939	11.611
12	0.755	11.520
12.1	-3.472	11.430
12.2	-0.914	11.341

12.3	-1.612	11.252
12.4	-4.741	11.164
12.5	-6.356	11.077
12.6	-3.104	10.991
12.7	-0.617	10.905
12.8	0.375	10.820
12.9	1.943	10.735
13	2.515	10.651
13.1	-0.776	10.568
13.2	-9.893	10.486
13.3	-11.305	10.404
13.4	-7.307	10.322
13.5	-2.648	10.242
13.6	0.340	10.162
13.7	0.608	10.082
13.8	-1.390	10.003
13.9	-1.923	9.925
14	-2.140	9.847
14.1	-3.784	9.770
14.2	-6.883	9.693
14.3	-12.228	9.617
14.4	-15.262	9.541
14.5	-15.315	9.466
14.6	-10.319	9.391
14.7	-8.439	9.317
14.8	-9.396	9.243
14.9	-9.575	9.170
15	-11.414	9.098
15.1	-14.737	9.026
15.2	-8.070	8.954
15.3	-3.701	8.883
15.4	-4.376	8.812
15.5	-7.489	8.742
15.6	-10.904	8.672
15.7	-23.586	8.603
15.8	-25.515	8.534
15.9	-31.225	8.465
16	-21.571	8.397
16.1	-16.463	8.329
16.2	-16.323	8.262
16.3	-9.278	8.195

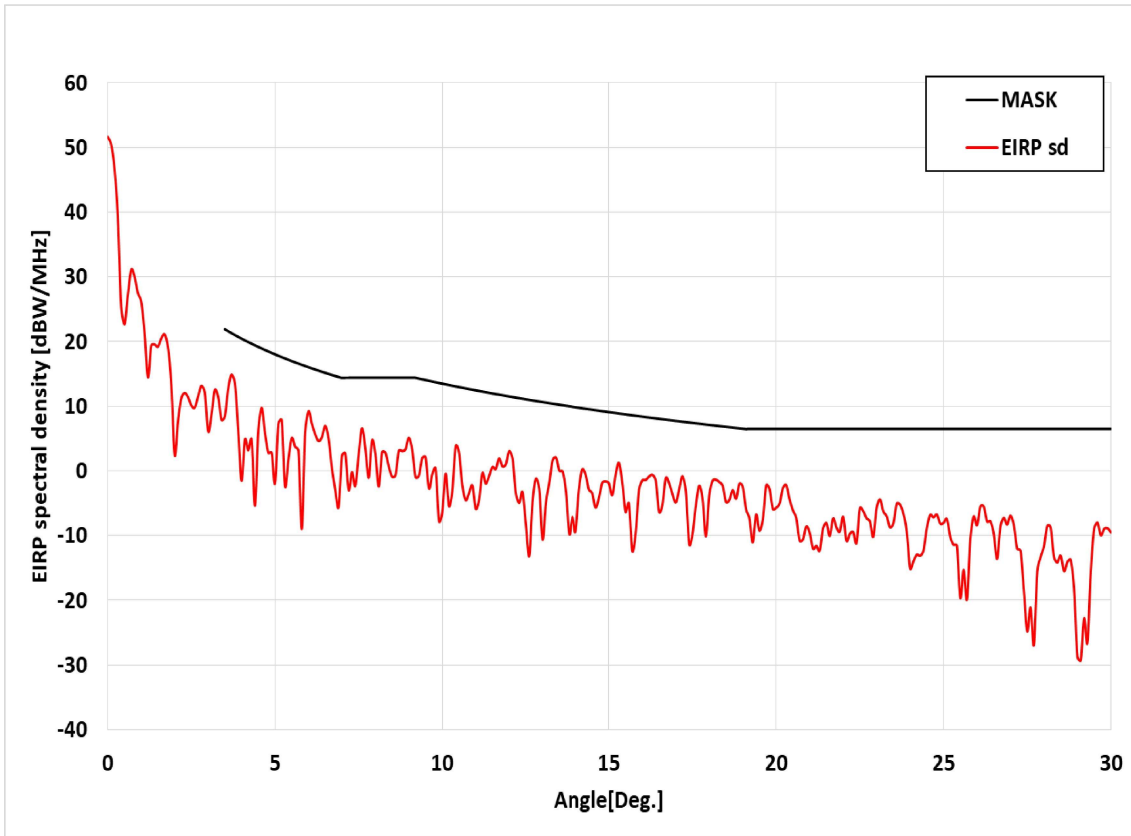
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16.5	-8.223	8.063
16.6	-7.230	7.997
16.7	-6.720	7.932
16.8	-7.011	7.867
16.9	-4.248	7.803
17	-3.520	7.739
17.1	-4.206	7.675
17.2	-3.444	7.612
17.3	-3.383	7.549
17.4	-4.941	7.486
17.5	-6.936	7.424
17.6	-7.782	7.362
17.7	-9.829	7.301
17.8	-13.018	7.239
17.9	-9.762	7.179
18	-9.440	7.118
18.1	-10.642	7.058
18.2	-13.508	6.998
18.3	-15.339	6.939
18.4	-13.382	6.880
18.5	-13.145	6.821
18.6	-16.490	6.762
18.7	-20.540	6.704
18.8	-12.680	6.646
18.9	-7.556	6.588
19	-7.424	6.531
19.1	-10.300	6.474
19.2	-9.594	6.500
19.3	-11.067	6.500
19.4	-11.103	6.500
19.5	-9.690	6.500
19.6	-12.815	6.500
19.7	-20.049	6.500
19.8	-15.159	6.500
19.9	-12.953	6.500
20	-11.192	6.500
20.1	-9.482	6.500
20.2	-8.334	6.500
20.3	-7.751	6.500
20.4	-7.588	6.500

20.5	-6.653	6.500
20.6	-6.656	6.500
20.7	-9.390	6.500
20.8	-14.929	6.500
20.9	-18.525	6.500
21	-20.224	6.500
21.1	-25.255	6.500
21.2	-12.340	6.500
21.3	-9.080	6.500
21.4	-10.642	6.500
21.5	-11.803	6.500
21.6	-16.288	6.500
21.7	-37.715	6.500
21.8	-23.900	6.500
21.9	-25.125	6.500
22	-17.934	6.500
22.1	-22.081	6.500
22.2	-19.794	6.500
22.3	-18.024	6.500
22.4	-20.155	6.500
22.5	-24.261	6.500
22.6	-18.821	6.500
22.7	-15.442	6.500
22.8	-16.021	6.500
22.9	-16.603	6.500
23	-14.728	6.500
23.1	-16.168	6.500
23.2	-38.327	6.500
23.3	-18.589	6.500
23.4	-19.199	6.500
23.5	-23.433	6.500
23.6	-14.555	6.500
23.7	-20.847	6.500
23.8	-28.256	6.500
23.9	-29.546	6.500
24	-15.477	6.500
24.1	-9.354	6.500
24.2	-9.344	6.500
24.3	-10.519	6.500
24.4	-8.841	6.500
24.5	-8.912	6.500

24.6	-12.704	6.500
24.7	-28.238	6.500
24.8	-22.881	6.500
24.9	-18.951	6.500
25	-14.791	6.500
25.1	-13.233	6.500
25.2	-13.503	6.500
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25.9	-10.664	6.500
26	-10.751	6.500
26.1	-10.241	6.500
26.2	-10.942	6.500
26.3	-9.773	6.500
26.4	-7.391	6.500
26.5	-7.628	6.500
26.6	-6.880	6.500
26.7	-7.317	6.500
26.8	-10.024	6.500
26.9	-11.632	6.500
27	-10.836	6.500
27.1	-11.041	6.500
27.2	-10.686	6.500
27.3	-9.709	6.500
27.4	-10.686	6.500
27.5	-11.423	6.500
27.6	-9.338	6.500
27.7	-9.576	6.500
27.8	-9.886	6.500
27.9	-9.676	6.500
28	-10.246	6.500
28.1	-9.292	6.500
28.2	-9.872	6.500
28.3	-10.712	6.500
28.4	-10.481	6.500
28.5	-9.771	6.500
28.6	-8.565	6.500

28.7	-8.186	6.500
28.8	-8.100	6.500
28.9	-8.788	6.500
29	-8.149	6.500
29.1	-7.168	6.500
29.2	-7.670	6.500
29.3	-6.306	6.500
29.4	-6.644	6.500
29.5	-6.978	6.500
29.6	-6.060	6.500
29.7	-6.524	6.500
29.8	-5.620	6.500
29.9	-5.048	6.500
30	-5.297	6.500

9.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$35.5-25\log(\theta)$	dBW/MHz	for	$3.5^\circ \leq \theta \leq 7.0^\circ$
14.4	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$38.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
6.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

10.4. Elevation Pattern for Co-pol (0°~30°)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	51.621	
0.1	50.484	
0.2	46.766	
0.3	39.315	
0.4	25.375	
0.5	22.663	
0.6	27.214	
0.7	31.103	
0.8	30.027	
0.9	27.486	
1	26.173	
1.1	21.274	
1.2	14.466	
1.3	19.397	
1.4	19.543	
1.5	19.224	
1.6	20.484	
1.7	21.091	
1.8	19.074	
1.9	13.231	
2	2.427	
2.1	7.762	
2.2	11.307	
2.3	12.053	
2.4	11.402	
2.5	10.109	
2.6	9.810	
2.7	11.524	
2.8	13.164	
2.9	12.131	
3	6.116	
3.1	8.749	
3.2	12.534	
3.3	11.417	
3.4	7.904	
3.5	8.427	21.898
3.6	12.735	21.592
3.7	14.910	21.295
3.8	13.580	21.005
3.9	6.213	20.723
4	-1.515	20.449

4.1	4.819	20.180
4.2	3.207	19.919
4.3	4.831	19.663
4.4	-5.368	19.414
4.5	6.309	19.170
4.6	9.731	18.931
4.7	5.826	18.698
4.8	2.811	18.469
4.9	2.801	18.245
5	-1.933	18.026
5.1	7.300	17.811
5.2	7.832	17.600
5.3	-2.336	17.393
5.4	1.758	17.190
5.5	5.083	16.991
5.6	3.732	16.795
5.7	3.117	16.603
5.8	-8.943	16.414
5.9	5.945	16.229
6	9.227	16.046
6.1	7.330	15.867
6.2	5.685	15.690
6.3	4.626	15.516
6.4	5.199	15.346
6.5	6.943	15.177
6.6	5.046	15.011
6.7	0.457	14.848
6.8	-2.946	14.687
6.9	-5.528	14.529
7	2.348	14.373
7.1	2.740	14.400
7.2	-2.942	14.400
7.3	-0.198	14.400
7.4	-2.316	14.400
7.5	2.547	14.400
7.6	6.591	14.400
7.7	3.495	14.400
7.8	-1.034	14.400
7.9	4.687	14.400
8	2.639	14.400
8.1	-2.381	14.400

8.2	2.890	14.400
8.3	2.826	14.400
8.4	0.685	14.400
8.5	-0.892	14.400
8.6	-0.677	14.400
8.7	3.091	14.400
8.8	3.098	14.400
8.9	3.331	14.400
9	5.121	14.400
9.1	3.291	14.400
9.2	-0.931	14.400
9.3	-0.765	14.288
9.4	1.995	14.172
9.5	2.136	14.057
9.6	-2.690	13.943
9.7	-0.499	13.831
9.8	0.401	13.719
9.9	-7.707	13.609
10	-6.394	13.500
10.1	-0.431	13.392
10.2	-5.446	13.285
10.3	-3.123	13.179
10.4	3.827	13.074
10.5	2.930	12.970
10.6	-2.246	12.867
10.7	-4.506	12.765
10.8	-3.403	12.664
10.9	-2.263	12.564
11	-5.857	12.465
11.1	-4.471	12.367
11.2	-0.329	12.270
11.3	-1.928	12.173
11.4	-0.771	12.077
11.5	0.600	11.983
11.6	0.325	11.889
11.7	1.928	11.795
11.8	0.705	11.703
11.9	1.038	11.611
12	3.063	11.520
12.1	1.914	11.430
12.2	-3.455	11.341

12.3	-4.931	11.252
12.4	-3.293	11.164
12.5	-8.371	11.077
12.6	-13.147	10.991
12.7	-4.689	10.905
12.8	-1.170	10.820
12.9	-2.773	10.735
13	-10.608	10.651
13.1	-4.871	10.568
13.2	-1.798	10.486
13.3	1.708	10.404
13.4	2.082	10.322
13.5	0.038	10.242
13.6	-0.119	10.162
13.7	-3.295	10.082
13.8	-9.756	10.003
13.9	-7.120	9.925
14	-9.385	9.847
14.1	-3.028	9.770
14.2	0.181	9.693
14.3	-0.453	9.617
14.4	-2.835	9.541
14.5	-3.434	9.466
14.6	-5.648	9.391
14.7	-4.194	9.317
14.8	-1.855	9.243
14.9	-1.625	9.170
15	-1.905	9.098
15.1	-3.736	9.026
15.2	-0.626	8.954
15.3	1.260	8.883
15.4	-1.746	8.812
15.5	-6.327	8.742
15.6	-5.052	8.672
15.7	-12.323	8.603
15.8	-9.582	8.534
15.9	-2.913	8.465
16	-1.454	8.397
16.1	-1.383	8.329
16.2	-0.863	8.262
16.3	-0.592	8.195

16.4	-1.447	8.129
16.5	-6.335	8.063
16.6	-5.250	7.997
16.7	-1.099	7.932
16.8	-1.883	7.867
16.9	-3.561	7.803
17	-4.867	7.739
17.1	-2.820	7.675
17.2	-0.836	7.612
17.3	-3.178	7.549
17.4	-11.277	7.486
17.5	-9.670	7.424
17.6	-5.278	7.362
17.7	-2.282	7.301
17.8	-4.325	7.239
17.9	-10.094	7.179
18	-3.718	7.118
18.1	-1.515	7.058
18.2	-1.348	6.998
18.3	-1.722	6.939
18.4	-2.291	6.880
18.5	-4.785	6.821
18.6	-4.467	6.762
18.7	-2.991	6.704
18.8	-4.292	6.646
18.9	-1.983	6.588
19	-2.421	6.531
19.1	-5.930	6.474
19.2	-7.346	6.500
19.3	-11.039	6.500
19.4	-6.755	6.500
19.5	-9.241	6.500
19.6	-7.479	6.500
19.7	-2.249	6.500
19.8	-2.755	6.500
19.9	-5.885	6.500
20	-5.672	6.500
20.1	-5.048	6.500
20.2	-2.647	6.500
20.3	-2.177	6.500
20.4	-4.421	6.500

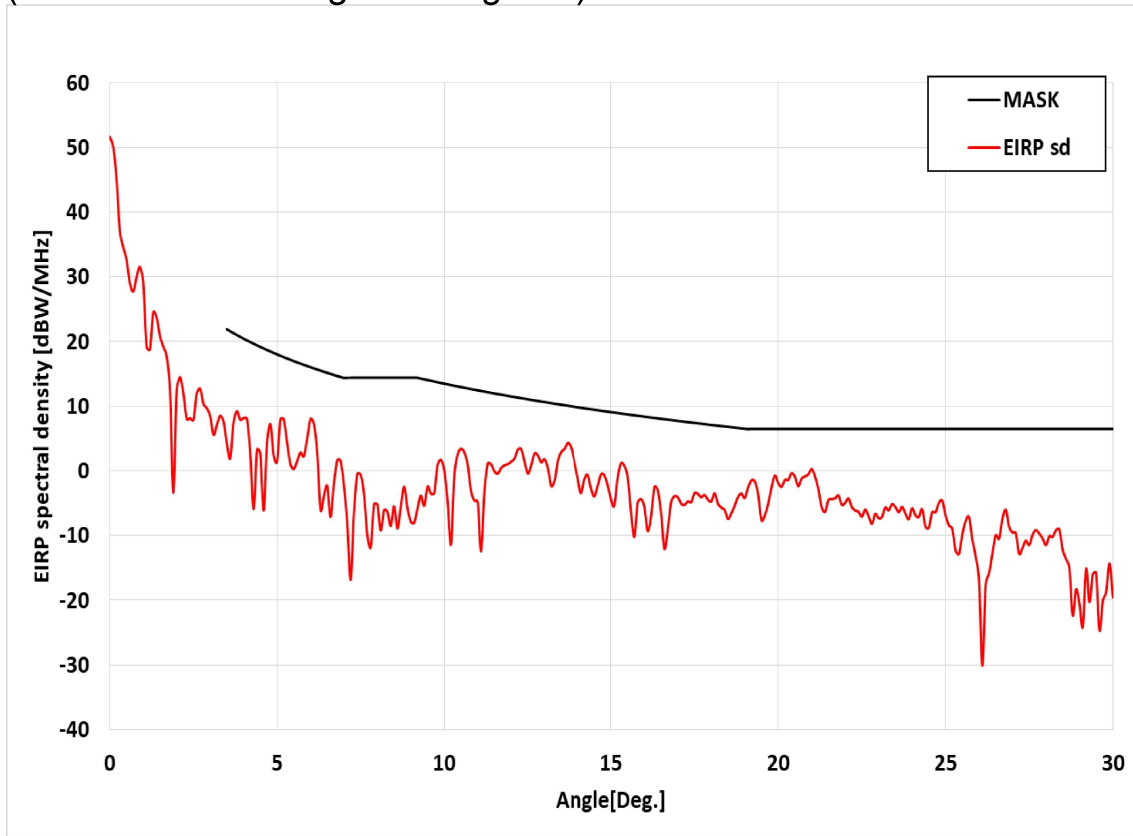
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20.8	-10.587	6.500
20.9	-8.591	6.500
21	-9.585	6.500
21.1	-12.002	6.500
21.2	-11.578	6.500
21.3	-12.284	6.500
21.4	-8.886	6.500
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21.6	-10.039	6.500
21.7	-7.349	6.500
21.8	-8.723	6.500
21.9	-9.372	6.500
22	-7.075	6.500
22.1	-10.796	6.500
22.2	-9.737	6.500
22.3	-9.457	6.500
22.4	-11.113	6.500
22.5	-5.734	6.500
22.6	-6.218	6.500
22.7	-7.319	6.500
22.8	-7.798	6.500
22.9	-10.175	6.500
23	-5.725	6.500
23.1	-4.395	6.500
23.2	-6.232	6.500
23.3	-6.998	6.500
23.4	-8.722	6.500
23.5	-8.102	6.500
23.6	-5.072	6.500
23.7	-5.211	6.500
23.8	-6.623	6.500
23.9	-9.359	6.500
24	-15.023	6.500
24.1	-13.959	6.500
24.2	-12.940	6.500
24.3	-13.107	6.500
24.4	-12.320	6.500
24.5	-8.872	6.500

24.6	-6.824	6.500
24.7	-7.156	6.500
24.8	-6.740	6.500
24.9	-8.118	6.500
25	-8.021	6.500
25.1	-7.453	6.500
25.2	-10.166	6.500
25.3	-11.426	6.500
25.4	-11.550	6.500
25.5	-19.625	6.500
25.6	-15.305	6.500
25.7	-19.881	6.500
25.8	-10.644	6.500
25.9	-7.059	6.500
26	-8.366	6.500
26.1	-5.488	6.500
26.2	-5.496	6.500
26.3	-7.785	6.500
26.4	-7.781	6.500
26.5	-9.721	6.500
26.6	-13.573	6.500
26.7	-8.556	6.500
26.8	-7.266	6.500
26.9	-8.280	6.500
27	-6.913	6.500
27.1	-8.342	6.500
27.2	-12.004	6.500
27.3	-12.336	6.500
27.4	-18.464	6.500
27.5	-24.799	6.500
27.6	-21.148	6.500
27.7	-26.893	6.500
27.8	-15.561	6.500
27.9	-13.301	6.500
28	-11.653	6.500
28.1	-8.496	6.500
28.2	-8.697	6.500
28.3	-13.293	6.500
28.4	-14.151	6.500
28.5	-13.093	6.500
28.6	-15.488	6.500

28.7	-14.047	6.500
28.8	-13.760	6.500
28.9	-18.305	6.500
29	-28.735	6.500
29.1	-29.277	6.500
29.2	-22.792	6.500
29.3	-26.559	6.500
29.4	-15.563	6.500
29.5	-8.910	6.500
29.6	-7.999	6.500
29.7	-9.942	6.500
29.8	-8.962	6.500
29.9	-8.862	6.500
30	-9.490	6.500

11.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)

(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$35.5-25\log(\theta)$	dBW/MHz	for	$3.5^\circ \leq \theta \leq 7.0^\circ$
14.4	dBW/MHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$38.5-25\log(\theta)$	dBW/MHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
6.5	dBW/MHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

12.4. Elevation Pattern for Co-pol (0°~30°) (Maximum skew angle 45 degrees)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	51.620	
0.1	50.142	
0.2	45.314	
0.3	37.145	
0.4	34.636	
0.5	32.638	
0.6	29.057	
0.7	27.729	
0.8	29.954	
0.9	31.529	
1	29.187	
1.1	19.180	
1.2	18.746	
1.3	24.514	
1.4	23.758	
1.5	20.865	
1.6	19.214	
1.7	17.737	
1.8	12.528	
1.9	-3.358	
2	12.578	
2.1	14.490	
2.2	11.954	
2.3	8.041	
2.4	8.160	
2.5	7.883	
2.6	11.963	
2.7	12.733	
2.8	10.366	
2.9	9.712	
3	8.442	
3.1	5.586	
3.2	7.089	
3.3	8.522	
3.4	7.653	
3.5	4.248	21.898
3.6	1.974	21.592
3.7	7.505	21.295
3.8	9.222	21.005
3.9	7.908	20.723
4	8.169	20.449

4.1	8.085	20.180
4.2	2.745	19.919
4.3	-5.883	19.663
4.4	3.287	19.414
4.5	2.682	19.170
4.6	-6.115	18.931
4.7	4.337	18.698
4.8	7.249	18.469
4.9	2.334	18.245
5	1.400	18.026
5.1	7.973	17.811
5.2	7.985	17.600
5.3	4.457	17.393
5.4	1.031	17.190
5.5	0.313	16.991
5.6	1.516	16.795
5.7	2.838	16.603
5.8	2.281	16.414
5.9	4.997	16.229
6	8.024	16.046
6.1	7.340	15.867
6.2	2.882	15.690
6.3	-5.970	15.516
6.4	-3.935	15.346
6.5	-2.324	15.177
6.6	-7.108	15.011
6.7	-1.980	14.848
6.8	1.643	14.687
6.9	1.548	14.529
7	-2.286	14.373
7.1	-8.207	14.400
7.2	-16.827	14.400
7.3	-6.405	14.400
7.4	-0.470	14.400
7.5	-0.586	14.400
7.6	-3.553	14.400
7.7	-9.950	14.400
7.8	-11.783	14.400
7.9	-5.185	14.400
8	-5.185	14.400
8.1	-9.190	14.400

8.2	-6.078	14.400
8.3	-6.363	14.400
8.4	-8.501	14.400
8.5	-5.459	14.400
8.6	-8.895	14.400
8.7	-5.518	14.400
8.8	-2.470	14.400
8.9	-5.772	14.400
9	-7.814	14.400
9.1	-8.013	14.400
9.2	-5.802	14.400
9.3	-3.810	14.288
9.4	-5.367	14.172
9.5	-2.438	14.057
9.6	-3.497	13.943
9.7	-3.417	13.831
9.8	0.939	13.719
9.9	1.733	13.609
10	0.109	13.500
10.1	-4.798	13.392
10.2	-11.384	13.285
10.3	-0.779	13.179
10.4	2.573	13.074
10.5	3.439	12.970
10.6	2.879	12.867
10.7	0.909	12.765
10.8	-3.126	12.664
10.9	-4.575	12.564
11	-4.775	12.465
11.1	-12.383	12.367
11.2	-3.214	12.270
11.3	1.138	12.173
11.4	1.042	12.077
11.5	-0.067	11.983
11.6	-0.404	11.889
11.7	0.450	11.795
11.8	0.874	11.703
11.9	1.061	11.611
12	1.455	11.520
12.1	1.945	11.430
12.2	3.302	11.341

12.3	3.357	11.252
12.4	1.441	11.164
12.5	-0.385	11.077
12.6	0.909	10.991
12.7	2.700	10.905
12.8	2.373	10.820
12.9	1.351	10.735
13	1.802	10.651
13.1	0.383	10.568
13.2	-2.331	10.486
13.3	-1.415	10.404
13.4	1.639	10.322
13.5	2.937	10.242
13.6	3.446	10.162
13.7	4.328	10.082
13.8	3.585	10.003
13.9	1.414	9.925
14	-0.994	9.847
14.1	-3.426	9.770
14.2	-1.425	9.693
14.3	-0.580	9.617
14.4	-2.610	9.541
14.5	-3.935	9.466
14.6	-2.385	9.391
14.7	-0.563	9.317
14.8	-0.627	9.243
14.9	-2.159	9.170
15	-4.319	9.098
15.1	-5.391	9.026
15.2	-1.137	8.954
15.3	1.159	8.883
15.4	0.835	8.812
15.5	-0.868	8.742
15.6	-6.210	8.672
15.7	-10.173	8.603
15.8	-4.910	8.534
15.9	-4.325	8.465
16	-5.523	8.397
16.1	-9.282	8.329
16.2	-7.029	8.262
16.3	-2.520	8.195

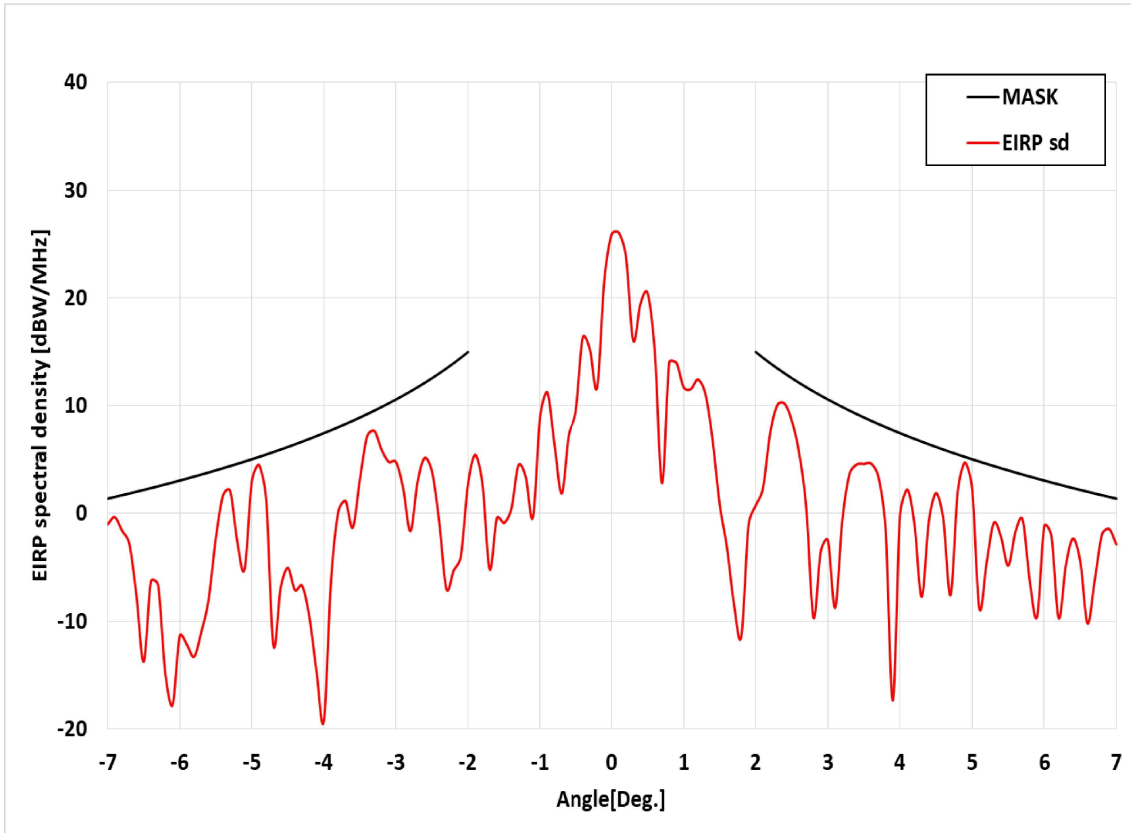
16.4	-2.967	8.129
16.5	-6.483	8.063
16.6	-12.035	7.997
16.7	-9.087	7.932
16.8	-4.830	7.867
16.9	-3.902	7.803
17	-4.071	7.739
17.1	-5.057	7.675
17.2	-5.255	7.612
17.3	-4.710	7.549
17.4	-4.821	7.486
17.5	-3.417	7.424
17.6	-3.551	7.362
17.7	-4.048	7.301
17.8	-3.716	7.239
17.9	-4.420	7.179
18	-4.714	7.118
18.1	-3.475	7.058
18.2	-5.036	6.998
18.3	-5.657	6.939
18.4	-6.050	6.880
18.5	-7.410	6.821
18.6	-6.532	6.762
18.7	-5.355	6.704
18.8	-4.008	6.646
18.9	-3.500	6.588
19	-4.170	6.531
19.1	-2.552	6.474
19.2	-1.457	6.500
19.3	-1.598	6.500
19.4	-3.584	6.500
19.5	-7.607	6.500
19.6	-6.830	6.500
19.7	-5.056	6.500
19.8	-2.550	6.500
19.9	-0.720	6.500
20	-1.865	6.500
20.1	-2.434	6.500
20.2	-1.405	6.500
20.3	-1.370	6.500
20.4	-0.365	6.500

20.5	-0.892	6.500
20.6	-2.328	6.500
20.7	-1.199	6.500
20.8	-0.841	6.500
20.9	-0.502	6.500
21	0.280	6.500
21.1	-0.847	6.500
21.2	-2.840	6.500
21.3	-5.643	6.500
21.4	-6.335	6.500
21.5	-4.490	6.500
21.6	-4.350	6.500
21.7	-4.237	6.500
21.8	-3.784	6.500
21.9	-5.217	6.500
22	-4.946	6.500
22.1	-4.254	6.500
22.2	-5.573	6.500
22.3	-6.099	6.500
22.4	-6.321	6.500
22.5	-7.065	6.500
22.6	-5.965	6.500
22.7	-6.979	6.500
22.8	-8.171	6.500
22.9	-6.635	6.500
23	-7.291	6.500
23.1	-7.119	6.500
23.2	-5.662	6.500
23.3	-6.102	6.500
23.4	-5.149	6.500
23.5	-5.574	6.500
23.6	-6.359	6.500
23.7	-5.555	6.500
23.8	-6.579	6.500
23.9	-7.455	6.500
24	-5.777	6.500
24.1	-6.837	6.500
24.2	-7.112	6.500
24.3	-5.899	6.500
24.4	-8.609	6.500
24.5	-8.780	6.500

24.6	-6.407	6.500
24.7	-6.388	6.500
24.8	-4.962	6.500
24.9	-4.577	6.500
25	-6.859	6.500
25.1	-8.411	6.500
25.2	-8.939	6.500
25.3	-12.297	6.500
25.4	-12.814	6.500
25.5	-9.863	6.500
25.6	-7.771	6.500
25.7	-7.117	6.500
25.8	-10.562	6.500
25.9	-13.181	6.500
26	-16.879	6.500
26.1	-30.080	6.500
26.2	-17.502	6.500
26.3	-15.843	6.500
26.4	-12.738	6.500
26.5	-9.955	6.500
26.6	-10.477	6.500
26.7	-7.360	6.500
26.8	-6.006	6.500
26.9	-8.613	6.500
27	-9.517	6.500
27.1	-9.620	6.500
27.2	-12.779	6.500
27.3	-11.892	6.500
27.4	-10.786	6.500
27.5	-11.461	6.500
27.6	-9.877	6.500
27.7	-9.150	6.500
27.8	-9.686	6.500
27.9	-10.425	6.500
28	-11.473	6.500
28.1	-10.107	6.500
28.2	-10.203	6.500
28.3	-9.160	6.500
28.4	-9.051	6.500
28.5	-12.135	6.500
28.6	-13.613	6.500

28.7	-14.963	6.500
28.8	-22.350	6.500
28.9	-18.307	6.500
29	-20.476	6.500
29.1	-24.117	6.500
29.2	-15.129	6.500
29.3	-20.279	6.500
29.4	-15.959	6.500
29.5	-15.774	6.500
29.6	-24.652	6.500
29.7	-20.104	6.500
29.8	-18.706	6.500
29.9	-14.295	6.500
30	-19.528	6.500

1.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$22.5 - 25 \log(\theta)$ dBW/MHz for $2.0^\circ \leq \theta \leq 7.0^\circ$
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The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

2.3. Azimuth Pattern for Cross-pol (-7°~7°)

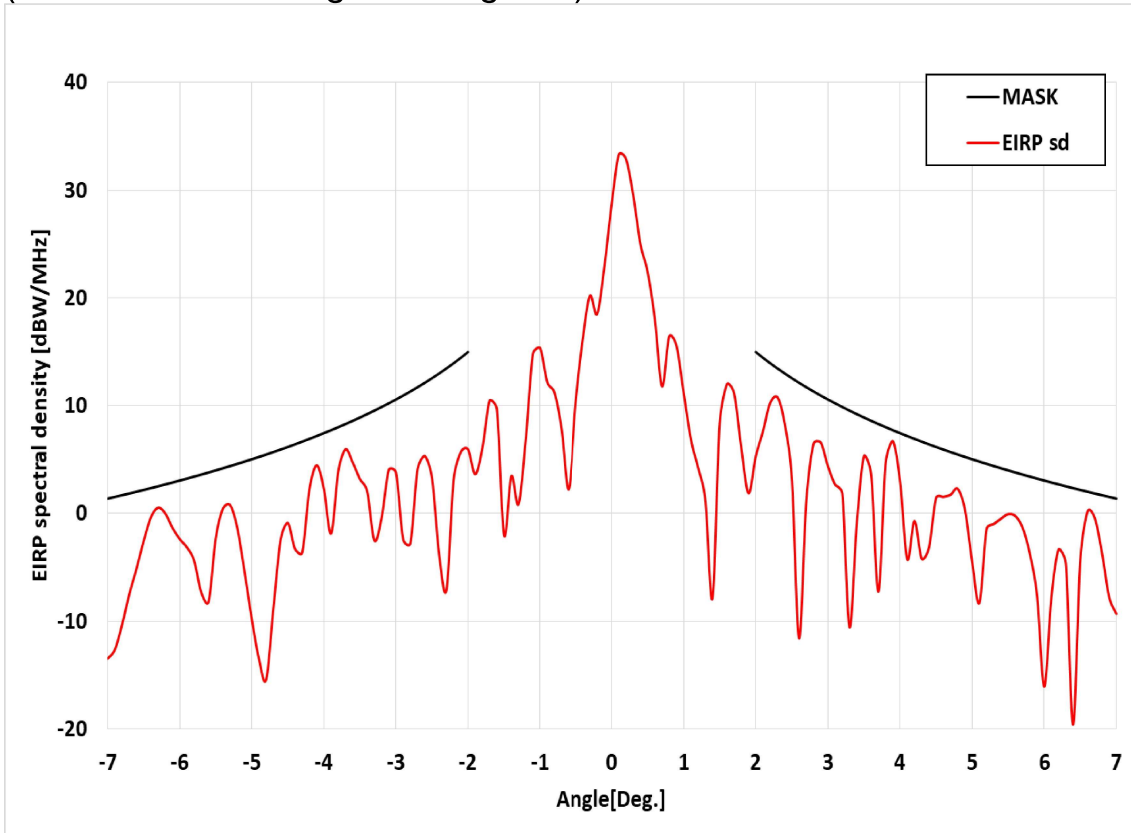
F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-1.015	1.373
-6.9	-0.352	1.529
-6.8	-1.608	1.687
-6.7	-2.807	1.848
-6.6	-7.667	2.011
-6.5	-13.765	2.177
-6.4	-6.314	2.346
-6.3	-6.655	2.516
-6.2	-14.825	2.690
-6.1	-17.795	2.867
-6	-11.384	3.046
-5.9	-12.185	3.229
-5.8	-13.300	3.414
-5.7	-10.995	3.603
-5.6	-8.019	3.795
-5.5	-2.372	3.991
-5.4	1.632	4.190
-5.3	2.079	4.393
-5.2	-2.670	4.600
-5.1	-5.166	4.811
-5	2.942	5.026
-4.9	4.511	5.245
-4.8	1.296	5.469
-4.7	-12.247	5.698
-4.6	-6.919	5.931
-4.5	-5.060	6.170
-4.4	-7.127	6.414
-4.3	-6.744	6.663
-4.2	-9.660	6.919
-4.1	-14.761	7.180
-4	-19.263	7.449
-3.9	-6.154	7.723
-3.8	0.176	8.005
-3.7	1.152	8.295
-3.6	-1.320	8.592
-3.5	3.200	8.898
-3.4	7.166	9.213
-3.3	7.661	9.537
-3.2	5.919	9.871
-3.1	4.779	10.216
-3	4.768	10.572

-2.9	2.315	10.940
-2.8	-1.650	11.321
-2.7	2.920	11.716
-2.6	5.164	12.126
-2.5	3.878	12.551
-2.4	-0.800	12.995
-2.3	-7.003	13.457
-2.2	-5.303	13.939
-2.1	-3.984	14.445
-2	2.721	14.974
-1.9	5.444	
-1.8	2.710	
-1.7	-5.203	
-1.6	-0.450	
-1.5	-0.884	
-1.4	0.398	
-1.3	4.476	
-1.2	3.398	
-1.1	-0.355	
-1	8.951	
-0.9	11.240	
-0.8	6.373	
-0.7	1.856	
-0.6	7.283	
-0.5	9.387	
-0.4	16.298	
-0.3	15.220	
-0.2	11.681	
-0.1	21.618	
-7.09655E-13	25.868	
0.1	26.058	
0.2	23.841	
0.3	16.050	
0.4	19.420	
0.5	20.445	
0.6	15.004	
0.7	2.820	
0.8	14.000	
0.9	13.977	
1	11.714	
1.1	11.538	

1.2	12.425	
1.3	11.139	
1.4	6.867	
1.5	0.850	
1.6	-3.142	
1.7	-8.534	
1.8	-11.412	
1.9	-1.080	
2	0.739	14.974
2.1	2.329	14.445
2.2	7.450	13.939
2.3	10.053	13.457
2.4	10.169	12.995
2.5	8.574	12.551
2.6	5.620	12.126
2.7	0.441	11.716
2.8	-9.674	11.321
2.9	-3.557	10.940
3	-2.520	10.572
3.1	-8.754	10.216
3.2	-0.636	9.871
3.3	3.657	9.537
3.4	4.534	9.213
3.5	4.588	8.898
3.6	4.613	8.592
3.7	3.401	8.295
3.8	-1.533	8.005
3.9	-17.362	7.723
4	-0.133	7.449
4.1	2.232	7.180
4.2	-1.000	6.919
4.3	-7.738	6.663
4.4	-0.701	6.414
4.5	1.886	6.170
4.6	-0.508	5.931
4.7	-7.575	5.698
4.8	2.010	5.469
4.9	4.738	5.245
5	2.284	5.026
5.1	-8.816	4.811
5.2	-4.601	4.600

5.3	-0.901	4.393
5.4	-2.182	4.190
5.5	-4.844	3.991
5.6	-1.730	3.795
5.7	-0.587	3.603
5.8	-6.325	3.414
5.9	-9.574	3.229
6	-1.205	3.046
6.1	-2.125	2.867
6.2	-9.728	2.690
6.3	-4.808	2.516
6.4	-2.332	2.346
6.5	-4.483	2.177
6.6	-10.201	2.011
6.7	-6.200	1.848
6.8	-1.973	1.687
6.9	-1.449	1.529
7	-2.877	1.373

3.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
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The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

4.3. Azimuth Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

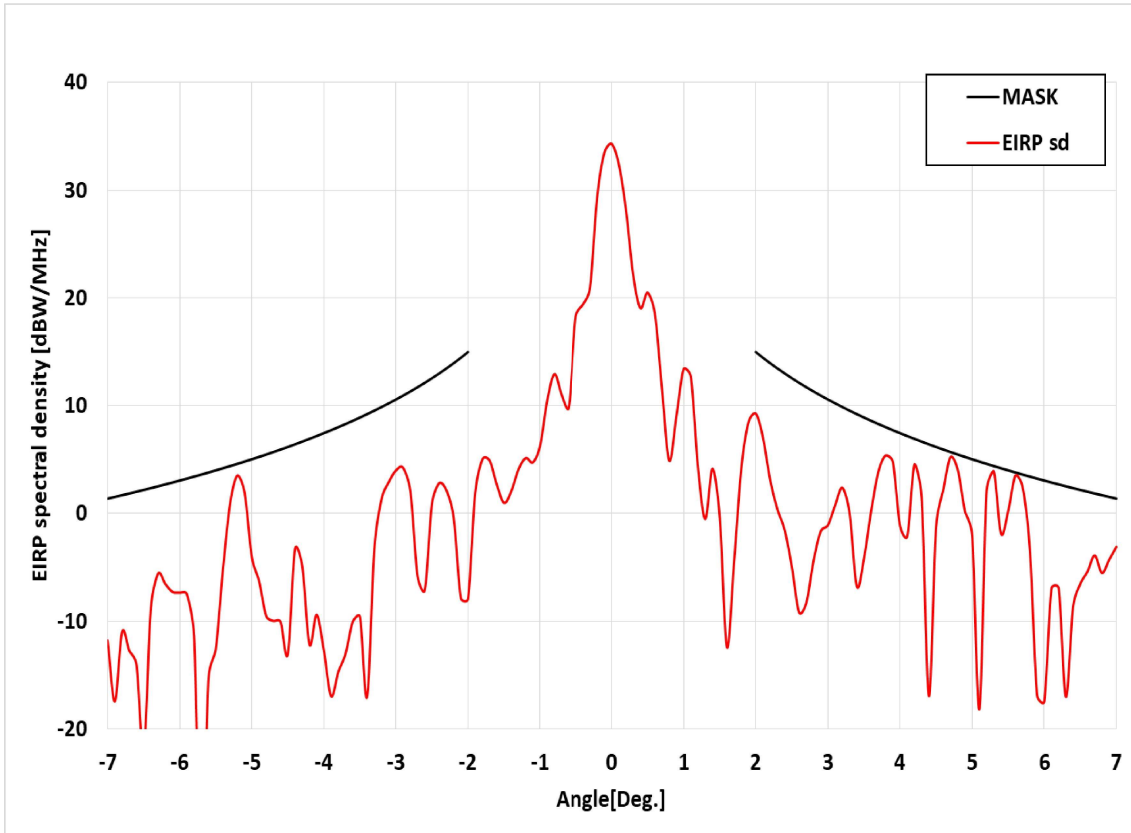
F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-13.482	1.373
-6.9	-12.658	1.529
-6.8	-10.329	1.687
-6.7	-7.517	1.848
-6.6	-5.131	2.011
-6.5	-2.574	2.177
-6.4	-0.368	2.346
-6.3	0.526	2.516
-6.2	-0.001	2.690
-6.1	-1.346	2.867
-6	-2.387	3.046
-5.9	-3.155	3.229
-5.8	-4.392	3.414
-5.7	-7.361	3.603
-5.6	-8.209	3.795
-5.5	-2.323	3.991
-5.4	0.445	4.190
-5.3	0.766	4.393
-5.2	-1.388	4.600
-5.1	-5.434	4.811
-5	-9.810	5.026
-4.9	-13.530	5.245
-4.8	-15.411	5.469
-4.7	-8.830	5.698
-4.6	-2.441	5.931
-4.5	-0.881	6.170
-4.4	-3.297	6.414
-4.3	-3.636	6.663
-4.2	2.246	6.919
-4.1	4.464	7.180
-4	2.287	7.449
-3.9	-1.863	7.723
-3.8	3.931	8.005
-3.7	5.951	8.295
-3.6	4.720	8.592
-3.5	3.171	8.898
-3.4	2.074	9.213
-3.3	-2.506	9.537
-3.2	-0.423	9.871
-3.1	4.039	10.216
-3	3.786	10.572

-2.9	-2.418	10.940
-2.8	-2.774	11.321
-2.7	4.100	11.716
-2.6	5.335	12.126
-2.5	3.272	12.551
-2.4	-3.912	12.995
-2.3	-7.118	13.457
-2.2	3.119	13.939
-2.1	5.706	14.445
-2	5.948	14.974
-1.9	3.640	
-1.8	6.114	
-1.7	10.497	
-1.6	9.662	
-1.5	-2.008	
-1.4	3.445	
-1.3	0.856	
-1.2	6.812	
-1.1	14.803	
-1	15.354	
-0.9	12.174	
-0.8	11.196	
-0.7	7.748	
-0.6	2.242	
-0.5	10.246	
-0.4	16.149	
-0.3	20.184	
-0.2	18.512	
-0.1	22.863	
-7.09655E-13	28.619	
0.1	33.267	
0.2	32.894	
0.3	29.552	
0.4	25.018	
0.5	22.427	
0.6	18.050	
0.7	11.795	
0.8	16.417	
0.9	15.574	
1	11.194	
1.1	6.911	

1.2	4.253	
1.3	1.295	
1.4	-7.875	
1.5	8.313	
1.6	11.986	
1.7	11.126	
1.8	6.068	
1.9	1.871	
2	5.292	14.974
2.1	7.622	14.445
2.2	10.254	13.939
2.3	10.784	13.457
2.4	8.336	12.995
2.5	3.246	12.551
2.6	-11.598	12.126
2.7	1.122	11.716
2.8	6.450	11.321
2.9	6.592	10.940
3	4.379	10.572
3.1	2.655	10.216
3.2	1.848	9.871
3.3	-10.572	9.537
3.4	-0.933	9.213
3.5	5.325	8.898
3.6	3.593	8.592
3.7	-7.255	8.295
3.8	4.672	8.005
3.9	6.715	7.723
4	2.984	7.449
4.1	-4.251	7.180
4.2	-0.714	6.919
4.3	-4.204	6.663
4.4	-3.212	6.414
4.5	1.436	6.170
4.6	1.536	5.931
4.7	1.732	5.698
4.8	2.272	5.469
4.9	0.364	5.245
5	-4.489	5.026
5.1	-8.310	4.811
5.2	-1.452	4.600

5.3	-0.987	4.393
5.4	-0.489	4.190
5.5	-0.065	3.991
5.6	-0.249	3.795
5.7	-1.339	3.603
5.8	-3.753	3.414
5.9	-7.666	3.229
6	-16.065	3.046
6.1	-7.711	2.867
6.2	-3.321	2.690
6.3	-4.664	2.516
6.4	-19.609	2.346
6.5	-4.297	2.177
6.6	0.181	2.011
6.7	-0.414	1.848
6.8	-3.647	1.687
6.9	-7.777	1.529
7	-9.318	1.373

9.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta)$ dBW/MHz for $2.0^\circ \leq \theta \leq 7.0^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

10.3. Azimuth Pattern for Cross-pol (-7°~7°)

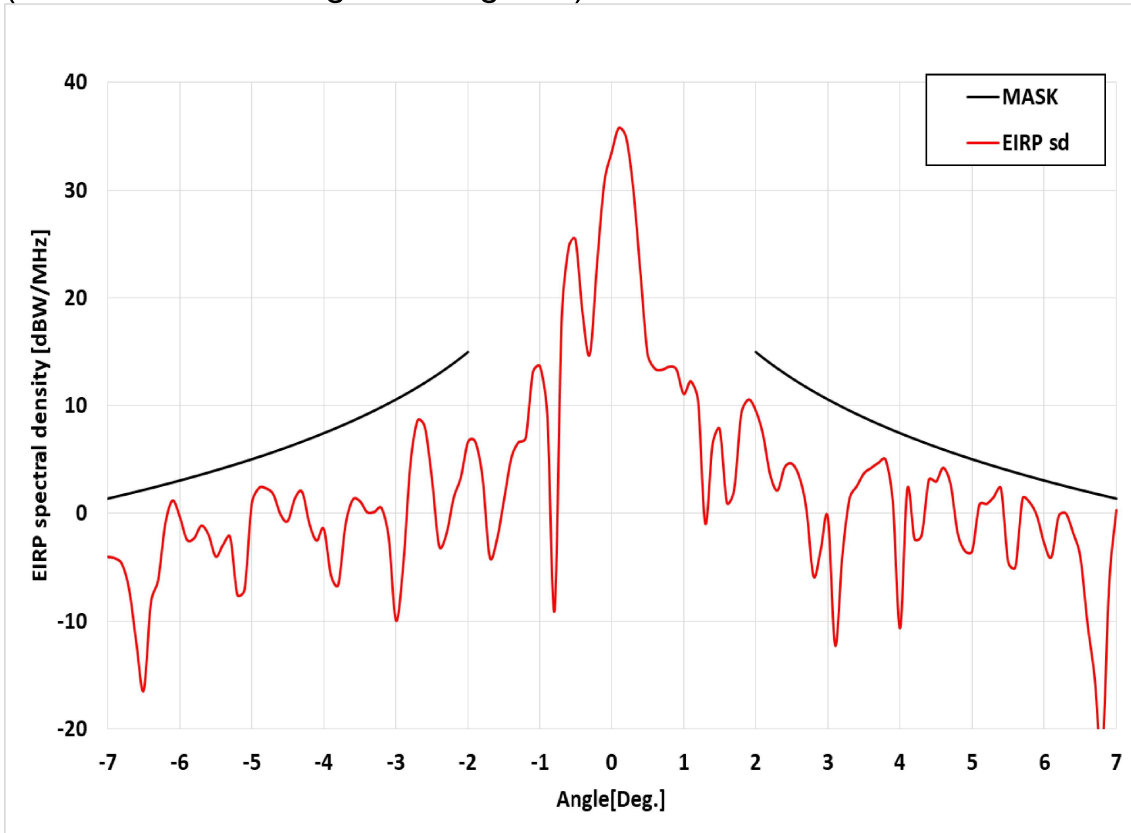
F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-11.801	1.373
-6.9	-17.453	1.529
-6.8	-11.020	1.687
-6.7	-12.742	1.848
-6.6	-14.046	2.011
-6.5	-22.080	2.177
-6.4	-8.754	2.346
-6.3	-5.587	2.516
-6.2	-6.531	2.690
-6.1	-7.288	2.867
-6	-7.359	3.046
-5.9	-7.521	3.229
-5.8	-11.426	3.414
-5.7	-34.706	3.603
-5.6	-15.279	3.795
-5.5	-12.651	3.991
-5.4	-5.212	4.190
-5.3	0.949	4.393
-5.2	3.510	4.600
-5.1	1.955	4.811
-5	-4.018	5.026
-4.9	-6.252	5.245
-4.8	-9.511	5.469
-4.7	-9.977	5.698
-4.6	-10.085	5.931
-4.5	-13.047	6.170
-4.4	-3.325	6.414
-4.3	-4.868	6.663
-4.2	-12.160	6.919
-4.1	-9.406	7.180
-4	-12.715	7.449
-3.9	-16.952	7.723
-3.8	-14.712	8.005
-3.7	-13.037	8.295
-3.6	-10.059	8.592
-3.5	-9.592	8.898
-3.4	-17.025	9.213
-3.3	-3.310	9.537
-3.2	1.335	9.871
-3.1	2.904	10.216
-3	3.982	10.572

-2.9	4.212	10.940
-2.8	2.030	11.321
-2.7	-5.835	11.716
-2.6	-7.115	12.126
-2.5	0.946	12.551
-2.4	2.807	12.995
-2.3	2.137	13.457
-2.2	-0.385	13.939
-2.1	-7.872	14.445
-2	-7.933	14.974
-1.9	1.936	
-1.8	5.026	
-1.7	4.900	
-1.6	2.646	
-1.5	0.978	
-1.4	2.068	
-1.3	4.077	
-1.2	5.140	
-1.1	4.744	
-1	6.276	
-0.9	10.527	
-0.8	12.926	
-0.7	10.986	
-0.6	9.841	
-0.5	18.242	
-0.4	19.364	
-0.3	20.855	
-0.2	29.288	
-0.1	33.461	
-7.09655E-13	34.303	
0.1	32.433	
0.2	28.170	
0.3	22.122	
0.4	19.055	
0.5	20.484	
0.6	18.589	
0.7	11.488	
0.8	4.903	
0.9	9.053	
1	13.412	
1.1	12.686	

1.2	4.202	
1.3	-0.507	
1.4	4.141	
1.5	-0.279	
1.6	-12.396	
1.7	-4.455	
1.8	4.176	
1.9	8.477	
2	9.267	14.974
2.1	7.038	14.445
2.2	3.102	13.939
2.3	0.383	13.457
2.4	-1.562	12.995
2.5	-4.961	12.551
2.6	-9.191	12.126
2.7	-8.315	11.716
2.8	-4.410	11.321
2.9	-1.682	10.940
3	-1.092	10.572
3.1	0.761	10.216
3.2	2.378	9.871
3.3	0.049	9.537
3.4	-6.757	9.213
3.5	-4.175	8.898
3.6	0.241	8.592
3.7	3.869	8.295
3.8	5.373	8.005
3.9	4.792	7.723
4	-1.159	7.449
4.1	-2.129	7.180
4.2	4.534	6.919
4.3	1.454	6.663
4.4	-16.938	6.414
4.5	-1.258	6.170
4.6	2.196	5.931
4.7	5.226	5.698
4.8	4.060	5.469
4.9	0.199	5.245
5	-1.993	5.026
5.1	-18.168	4.811
5.2	2.091	4.600

5.3	3.916	4.393
5.4	-1.871	4.190
5.5	0.238	3.991
5.6	3.508	3.795
5.7	2.436	3.603
5.8	-3.343	3.414
5.9	-16.881	3.229
6	-17.482	3.046
6.1	-6.982	2.867
6.2	-6.934	2.690
6.3	-17.018	2.516
6.4	-8.679	2.346
6.5	-6.530	2.177
6.6	-5.389	2.011
6.7	-3.908	1.848
6.8	-5.525	1.687
6.9	-4.301	1.529
7	-3.114	1.373

11.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta)$	dBW/MHz	for	$2.0^\circ \leq \theta \leq 7.0^\circ$
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The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

12.3. Azimuth Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

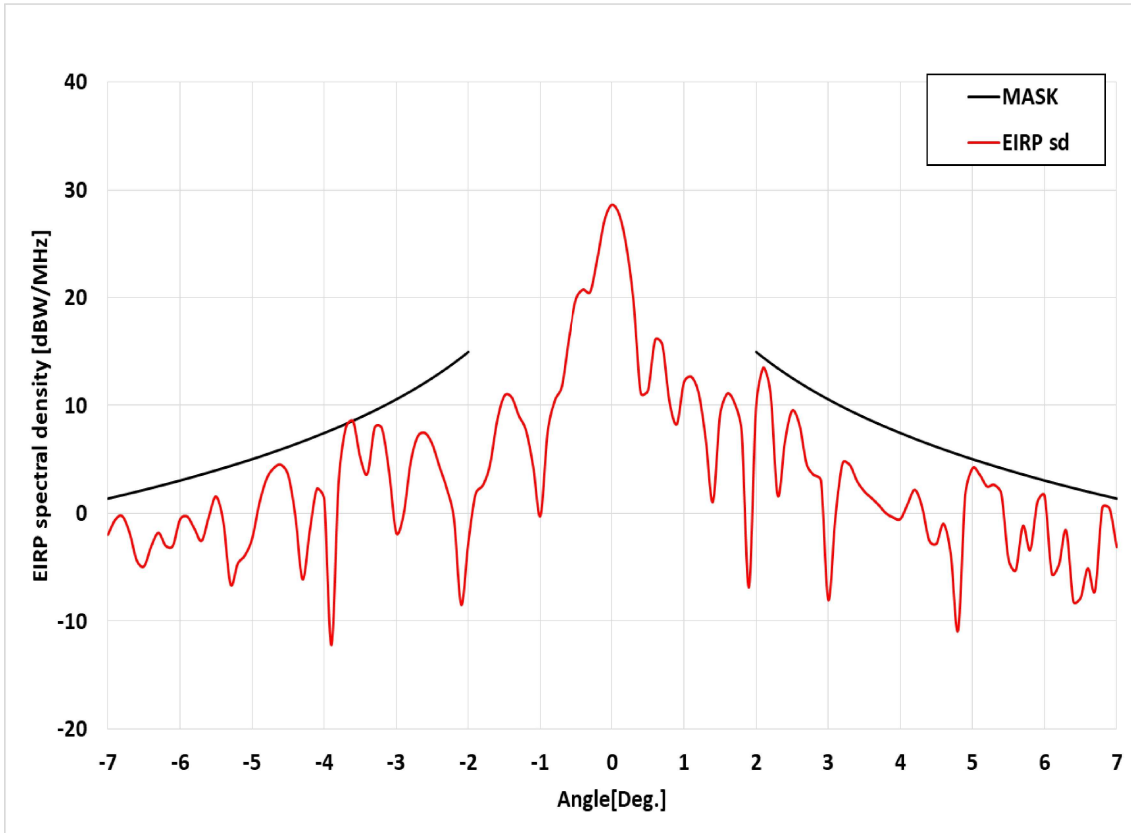
F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-4.034	1.373
-6.9	-4.168	1.529
-6.8	-4.712	1.687
-6.7	-7.135	1.848
-6.6	-12.116	2.011
-6.5	-16.444	2.177
-6.4	-8.315	2.346
-6.3	-6.224	2.516
-6.2	-0.980	2.690
-6.1	1.198	2.867
-6	-0.288	3.046
-5.9	-2.441	3.229
-5.8	-2.314	3.414
-5.7	-1.156	3.603
-5.6	-1.988	3.795
-5.5	-4.005	3.991
-5.4	-2.939	4.190
-5.3	-2.211	4.393
-5.2	-7.581	4.600
-5.1	-7.081	4.811
-5	0.916	5.026
-4.9	2.355	5.245
-4.8	2.313	5.469
-4.7	1.751	5.698
-4.6	-0.112	5.931
-4.5	-0.692	6.170
-4.4	1.410	6.414
-4.3	1.979	6.663
-4.2	-0.962	6.919
-4.1	-2.531	7.180
-4	-1.467	7.449
-3.9	-5.790	7.723
-3.8	-6.611	8.005
-3.7	-1.060	8.295
-3.6	1.267	8.592
-3.5	1.131	8.898
-3.4	0.118	9.213
-3.3	0.135	9.537
-3.2	0.486	9.871
-3.1	-2.281	10.216
-3	-9.938	10.572

-2.9	-4.858	10.940
-2.8	4.548	11.321
-2.7	8.626	11.716
-2.6	8.034	12.126
-2.5	3.125	12.551
-2.4	-3.050	12.995
-2.3	-1.915	13.457
-2.2	1.420	13.939
-2.1	3.349	14.445
-2	6.636	14.974
-1.9	6.658	
-1.8	3.382	
-1.7	-4.038	
-1.6	-2.468	
-1.5	1.289	
-1.4	5.128	
-1.3	6.601	
-1.2	7.003	
-1.1	13.100	
-1	13.634	
-0.9	9.143	
-0.8	-9.021	
-0.7	18.119	
-0.6	24.804	
-0.5	25.405	
-0.4	18.492	
-0.3	14.785	
-0.2	23.213	
-0.1	30.702	
-7.09655E-13	33.460	
0.1	35.769	
0.2	34.970	
0.3	30.202	
0.4	22.402	
0.5	14.789	
0.6	13.447	
0.7	13.324	
0.8	13.610	
0.9	13.370	
1	11.106	
1.1	12.266	

1.2	10.484	
1.3	-0.942	
1.4	6.384	
1.5	7.797	
1.6	1.009	
1.7	2.172	
1.8	9.278	
1.9	10.573	
2	9.541	14.974
2.1	7.335	14.445
2.2	3.590	13.939
2.3	2.132	13.457
2.4	4.269	12.995
2.5	4.609	12.551
2.6	3.461	12.126
2.7	0.458	11.716
2.8	-5.823	11.321
2.9	-3.396	10.940
3	-0.404	10.572
3.1	-12.264	10.216
3.2	-3.949	9.871
3.3	1.373	9.537
3.4	2.516	9.213
3.5	3.713	8.898
3.6	4.210	8.592
3.7	4.691	8.295
3.8	4.988	8.005
3.9	1.081	7.723
4	-10.669	7.449
4.1	2.228	7.180
4.2	-2.361	6.919
4.3	-2.025	6.663
4.4	3.110	6.414
4.5	2.935	6.170
4.6	4.230	5.931
4.7	2.750	5.698
4.8	-1.851	5.469
4.9	-3.494	5.245
5	-3.505	5.026
5.1	0.797	4.811
5.2	0.877	4.600

5.3	1.516	4.393
5.4	2.295	4.190
5.5	-4.521	3.991
5.6	-4.988	3.795
5.7	1.392	3.603
5.8	1.006	3.414
5.9	-0.263	3.229
6	-2.790	3.046
6.1	-4.030	2.867
6.2	-0.256	2.690
6.3	-0.004	2.516
6.4	-1.801	2.346
6.5	-4.025	2.177
6.6	-10.232	2.011
6.7	-15.284	1.848
6.8	-22.605	1.687
6.9	-6.649	1.529
7	0.315	1.373

1.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta) \quad \text{dBW/MHz} \quad \text{for} \quad 2.0^\circ \leq \theta \leq 7.0^\circ$
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The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

2.5. Elevation Pattern for Cross-pol (-7°~7°)

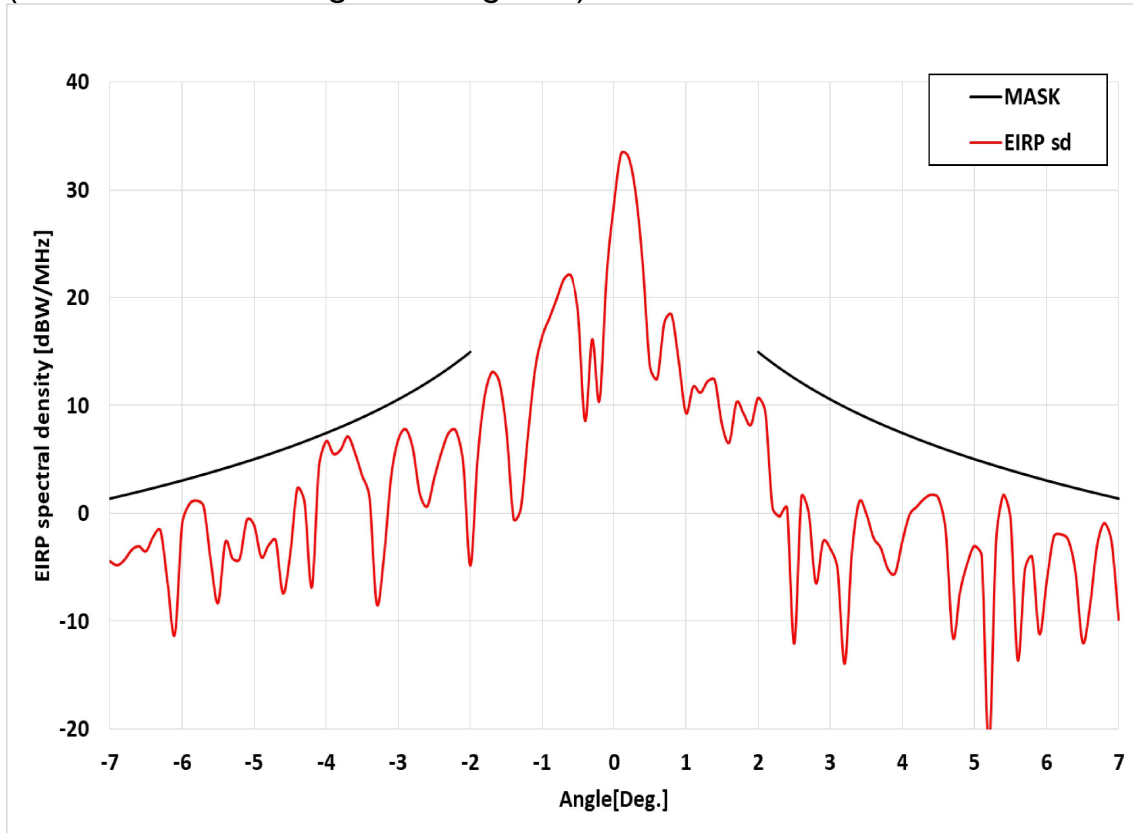
F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-1.982	1.373
-6.9	-0.605	1.529
-6.8	-0.272	1.687
-6.7	-1.814	1.848
-6.6	-4.381	2.011
-6.5	-4.919	2.177
-6.4	-3.065	2.346
-6.3	-1.815	2.516
-6.2	-3.001	2.690
-6.1	-3.012	2.867
-6	-0.565	3.046
-5.9	-0.298	3.229
-5.8	-1.427	3.414
-5.7	-2.542	3.603
-5.6	-0.309	3.795
-5.5	1.562	3.991
-5.4	-0.750	4.190
-5.3	-6.567	4.393
-5.2	-4.678	4.600
-5.1	-3.898	4.811
-5	-2.348	5.026
-4.9	0.915	5.245
-4.8	3.180	5.469
-4.7	4.190	5.698
-4.6	4.505	5.931
-4.5	3.572	6.170
-4.4	-0.240	6.414
-4.3	-6.123	6.663
-4.2	-1.621	6.919
-4.1	2.287	7.180
-4	1.330	7.449
-3.9	-12.215	7.723
-3.8	2.934	8.005
-3.7	7.964	8.295
-3.6	8.550	8.592
-3.5	5.176	8.898
-3.4	3.691	9.213
-3.3	7.947	9.537
-3.2	7.882	9.871
-3.1	3.852	10.216
-3	-1.810	10.572

-2.9	-0.148	10.940
-2.8	4.768	11.321
-2.7	7.162	11.716
-2.6	7.446	12.126
-2.5	6.399	12.551
-2.4	4.322	12.995
-2.3	2.308	13.457
-2.2	-0.512	13.939
-2.1	-8.467	14.445
-2	-2.677	14.974
-1.9	1.792	
-1.8	2.581	
-1.7	4.508	
-1.6	8.608	
-1.5	10.898	
-1.4	10.767	
-1.3	9.065	
-1.2	7.682	
-1.1	4.295	
-1	-0.232	
-0.9	7.545	
-0.8	10.457	
-0.7	11.835	
-0.6	16.324	
-0.5	19.859	
-0.4	20.755	
-0.3	20.535	
-0.2	23.673	
-0.1	27.224	
0	28.619	
0.1	27.766	
0.2	24.801	
0.3	19.643	
0.4	11.159	
0.5	11.370	
0.6	16.085	
0.7	15.632	
0.8	10.316	
0.9	8.274	
1	12.172	
1.1	12.679	

1.2	11.259	
1.3	6.957	
1.4	1.048	
1.5	9.104	
1.6	11.099	
1.7	10.251	
1.8	7.595	
1.9	-6.863	
2	9.881	14.974
2.1	13.513	14.445
2.2	11.179	13.939
2.3	1.661	13.457
2.4	6.696	12.995
2.5	9.528	12.551
2.6	8.246	12.126
2.7	4.569	11.716
2.8	3.550	11.321
2.9	3.005	10.940
3	-8.022	10.572
3.1	-0.279	10.216
3.2	4.673	9.871
3.3	4.480	9.537
3.4	2.987	9.213
3.5	2.043	8.898
3.6	1.419	8.592
3.7	0.761	8.295
3.8	0.012	8.005
3.9	-0.382	7.723
4	-0.518	7.449
4.1	0.852	7.180
4.2	2.181	6.919
4.3	0.627	6.663
4.4	-2.521	6.414
4.5	-2.824	6.170
4.6	-0.980	5.931
4.7	-3.845	5.698
4.8	-10.856	5.469
4.9	1.712	5.245
5	4.177	5.026
5.1	3.587	4.811
5.2	2.501	4.600

5.3	2.646	4.393
5.4	1.818	4.190
5.5	-4.276	3.991
5.6	-5.285	3.795
5.7	-1.172	3.603
5.8	-3.384	3.414
5.9	1.037	3.229
6	1.642	3.046
6.1	-5.570	2.867
6.2	-4.740	2.690
6.3	-1.609	2.516
6.4	-8.185	2.346
6.5	-7.835	2.177
6.6	-5.105	2.011
6.7	-7.152	1.848
6.8	0.523	1.687
6.9	0.467	1.529
7	-3.106	1.373

3.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=27.5GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta)$ dBW/MHz for $2.0^\circ \leq \theta \leq 7.0^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

4.5. Elevation Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

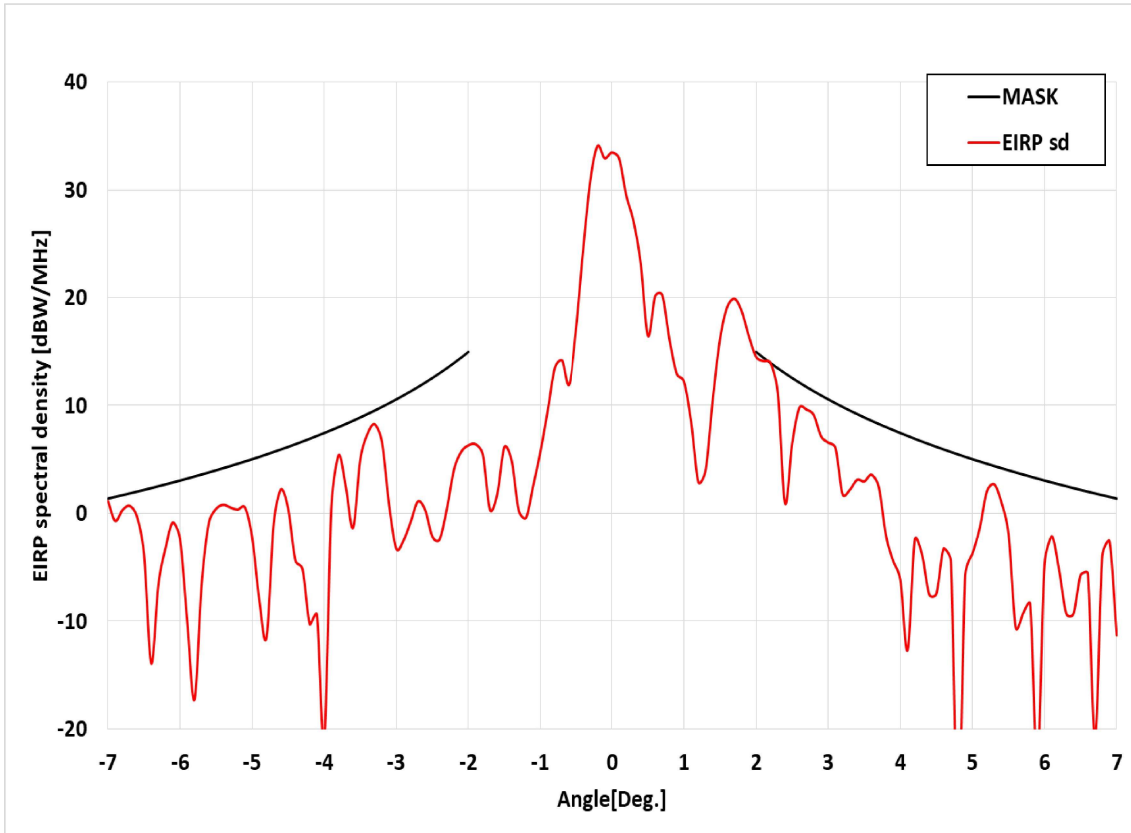
F=27.5GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-4.450	1.373
-6.9	-4.818	1.529
-6.8	-4.318	1.687
-6.7	-3.398	1.848
-6.6	-3.053	2.011
-6.5	-3.514	2.177
-6.4	-2.172	2.346
-6.3	-1.582	2.516
-6.2	-6.464	2.690
-6.1	-11.228	2.867
-6	-1.039	3.046
-5.9	0.837	3.229
-5.8	1.180	3.414
-5.7	0.636	3.603
-5.6	-4.490	3.795
-5.5	-8.319	3.991
-5.4	-2.690	4.190
-5.3	-4.184	4.393
-5.2	-4.215	4.600
-5.1	-0.612	4.811
-5	-1.096	5.026
-4.9	-4.044	5.245
-4.8	-2.977	5.469
-4.7	-2.513	5.698
-4.6	-7.418	5.931
-4.5	-3.812	6.170
-4.4	2.307	6.414
-4.3	1.015	6.663
-4.2	-6.850	6.919
-4.1	4.315	7.180
-4	6.695	7.449
-3.9	5.526	7.723
-3.8	5.907	8.005
-3.7	7.123	8.295
-3.6	5.592	8.592
-3.5	3.446	8.898
-3.4	1.504	9.213
-3.3	-8.379	9.537
-3.2	-4.047	9.871
-3.1	3.345	10.216
-3	6.850	10.572

-2.9	7.813	10.940
-2.8	6.072	11.321
-2.7	1.774	11.716
-2.6	0.632	12.126
-2.5	3.308	12.551
-2.4	5.679	12.995
-2.3	7.473	13.457
-2.2	7.651	13.939
-2.1	4.691	14.445
-2	-4.850	14.974
-1.9	5.072	
-1.8	10.912	
-1.7	13.101	
-1.6	12.258	
-1.5	7.675	
-1.4	-0.478	
-1.3	0.456	
-1.2	7.330	
-1.1	13.448	
-1	16.477	
-0.9	18.156	
-0.8	19.936	
-0.7	21.747	
-0.6	22.009	
-0.5	18.734	
-0.4	8.580	
-0.3	16.149	
-0.2	10.439	
-0.1	22.050	
0	28.619	
0.1	33.349	
0.2	33.100	
0.3	29.800	
0.4	23.136	
0.5	13.640	
0.6	12.469	
0.7	17.694	
0.8	18.427	
0.9	14.098	
1	9.312	
1.1	11.741	

1.2	11.183	
1.3	12.240	
1.4	12.334	
1.5	8.214	
1.6	6.576	
1.7	10.277	
1.8	9.238	
1.9	8.206	
2	10.716	14.974
2.1	9.416	14.445
2.2	0.543	13.939
2.3	-0.289	13.457
2.4	0.507	12.995
2.5	-12.093	12.551
2.6	1.496	12.126
2.7	0.099	11.716
2.8	-6.468	11.321
2.9	-2.628	10.940
3	-3.269	10.572
3.1	-5.130	10.216
3.2	-13.946	9.871
3.3	-3.679	9.537
3.4	1.037	9.213
3.5	-0.031	8.898
3.6	-2.264	8.592
3.7	-3.206	8.295
3.8	-5.171	8.005
3.9	-5.546	7.723
4	-2.575	7.449
4.1	-0.124	7.180
4.2	0.611	6.919
4.3	1.333	6.663
4.4	1.731	6.414
4.5	1.407	6.170
4.6	-1.559	5.931
4.7	-11.506	5.698
4.8	-7.278	5.469
4.9	-4.657	5.245
5	-3.019	5.026
5.1	-3.944	4.811
5.2	-21.788	4.600

5.3	-2.611	4.393
5.4	1.716	4.190
5.5	-0.517	3.991
5.6	-13.594	3.795
5.7	-5.195	3.603
5.8	-4.057	3.414
5.9	-11.195	3.229
6	-6.405	3.046
6.1	-2.158	2.867
6.2	-1.950	2.690
6.3	-2.457	2.516
6.4	-5.407	2.346
6.5	-11.971	2.177
6.6	-8.679	2.011
6.7	-3.010	1.848
6.8	-0.905	1.687
6.9	-2.573	1.529
7	-9.869	1.373

9.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta) \quad \text{dBW/MHz} \quad \text{for} \quad 2.0^\circ \leq \theta \leq 7.0^\circ$
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The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

10.5. Elevation Pattern for Cross-pol (-7°~7°)

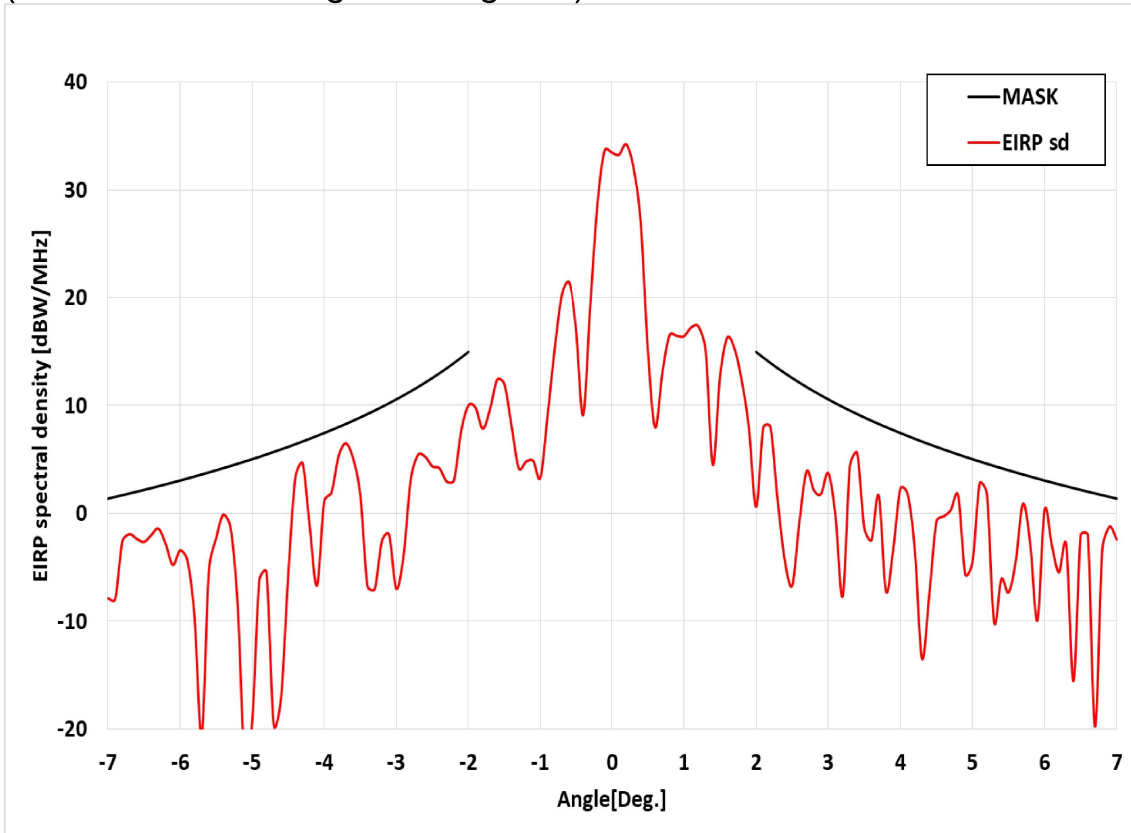
F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	1.137	1.373
-6.9	-0.699	1.529
-6.8	0.286	1.687
-6.7	0.696	1.848
-6.6	-0.249	2.011
-6.5	-3.768	2.177
-6.4	-13.903	2.346
-6.3	-6.581	2.516
-6.2	-3.200	2.690
-6.1	-0.836	2.867
-6	-2.405	3.046
-5.9	-10.071	3.229
-5.8	-17.290	3.414
-5.7	-6.564	3.603
-5.6	-0.864	3.795
-5.5	0.407	3.991
-5.4	0.791	4.190
-5.3	0.539	4.393
-5.2	0.337	4.600
-5.1	0.547	4.811
-5	-2.212	5.026
-4.9	-8.060	5.245
-4.8	-11.516	5.469
-4.7	-0.939	5.698
-4.6	2.234	5.931
-4.5	0.440	6.170
-4.4	-4.326	6.414
-4.3	-5.199	6.663
-4.2	-10.283	6.919
-4.1	-9.409	7.180
-4	-21.086	7.449
-3.9	0.708	7.723
-3.8	5.401	8.005
-3.7	2.432	8.295
-3.6	-1.338	8.592
-3.5	5.003	8.898
-3.4	7.362	9.213
-3.3	8.262	9.537
-3.2	6.653	9.871
-3.1	0.795	10.216
-3	-3.271	10.572

-2.9	-2.509	10.940
-2.8	-0.775	11.321
-2.7	1.096	11.716
-2.6	0.313	12.126
-2.5	-2.157	12.551
-2.4	-2.416	12.995
-2.3	0.366	13.457
-2.2	4.038	13.939
-2.1	5.707	14.445
-2	6.301	14.974
-1.9	6.413	
-1.8	5.479	
-1.7	0.330	
-1.6	1.755	
-1.5	6.157	
-1.4	4.894	
-1.3	0.243	
-1.2	-0.410	
-1.1	2.587	
-1	5.731	
-0.9	9.497	
-0.8	13.508	
-0.7	14.174	
-0.6	11.956	
-0.5	16.969	
-0.4	24.332	
-0.3	30.794	
-0.2	34.055	
-0.1	32.941	
0	33.461	
0.1	32.919	
0.2	29.481	
0.3	27.086	
0.4	23.168	
0.5	16.465	
0.6	20.131	
0.7	20.219	
0.8	16.079	
0.9	12.946	
1	12.213	
1.1	8.446	

1.2	2.885	
1.3	3.994	
1.4	10.595	
1.5	16.172	
1.6	19.151	
1.7	19.899	
1.8	18.758	
1.9	16.422	
2	14.519	14.974
2.1	14.128	14.445
2.2	13.939	13.939
2.3	11.217	13.457
2.4	0.936	12.995
2.5	6.487	12.551
2.6	9.810	12.126
2.7	9.624	11.716
2.8	9.101	11.321
2.9	7.156	10.940
3	6.561	10.572
3.1	6.054	10.216
3.2	1.743	9.871
3.3	2.195	9.537
3.4	3.109	9.213
3.5	2.969	8.898
3.6	3.579	8.592
3.7	2.470	8.295
3.8	-2.047	8.005
3.9	-4.412	7.723
4	-6.196	7.449
4.1	-12.700	7.180
4.2	-2.463	6.919
4.3	-3.806	6.663
4.4	-7.515	6.414
4.5	-7.428	6.170
4.6	-3.249	5.931
4.7	-4.417	5.698
4.8	-29.020	5.469
4.9	-5.715	5.245
5	-3.729	5.026
5.1	-1.382	4.811
5.2	2.056	4.600

5.3	2.704	4.393
5.4	1.051	4.190
5.5	-1.947	3.991
5.6	-10.580	3.795
5.7	-9.313	3.603
5.8	-8.415	3.414
5.9	-23.174	3.229
6	-4.669	3.046
6.1	-2.140	2.867
6.2	-5.214	2.690
6.3	-9.276	2.516
6.4	-9.319	2.346
6.5	-5.706	2.177
6.6	-5.589	2.011
6.7	-20.908	1.848
6.8	-3.943	1.687
6.9	-2.570	1.529
7	-11.301	1.373

11.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



+0.02 dBW/MHz Input power spectral density @ f=30.0GHz

▪ **FCC EIRP spectral density regulation**

$22.5-25\log(\theta)$ dBW/MHz for $2.0^\circ \leq \theta \leq 7.0^\circ$

The v240MT's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +0.02 dBW/ MHz

12.5. Elevation Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

F=30.0GHz, +0.02 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-7.883	1.373
-6.9	-7.971	1.529
-6.8	-2.602	1.687
-6.7	-1.935	1.848
-6.6	-2.367	2.011
-6.5	-2.649	2.177
-6.4	-2.028	2.346
-6.3	-1.417	2.516
-6.2	-2.821	2.690
-6.1	-4.787	2.867
-6	-3.435	3.046
-5.9	-4.310	3.229
-5.8	-9.522	3.414
-5.7	-20.539	3.603
-5.6	-5.326	3.795
-5.5	-2.343	3.991
-5.4	-0.110	4.190
-5.3	-1.295	4.393
-5.2	-8.593	4.600
-5.1	-23.170	4.811
-5	-19.426	5.026
-4.9	-6.205	5.245
-4.8	-5.454	5.469
-4.7	-19.600	5.698
-4.6	-17.236	5.931
-4.5	-5.835	6.170
-4.4	3.308	6.414
-4.3	4.656	6.663
-4.2	-1.265	6.919
-4.1	-6.692	7.180
-4	1.082	7.449
-3.9	1.912	7.723
-3.8	5.334	8.005
-3.7	6.494	8.295
-3.6	5.109	8.592
-3.5	1.694	8.898
-3.4	-6.737	9.213
-3.3	-7.042	9.537
-3.2	-2.572	9.871
-3.1	-1.985	10.216
-3	-6.983	10.572

-2.9	-3.958	10.940
-2.8	3.128	11.321
-2.7	5.413	11.716
-2.6	5.259	12.126
-2.5	4.365	12.551
-2.4	4.168	12.995
-2.3	2.945	13.457
-2.2	3.066	13.939
-2.1	7.634	14.445
-2	9.992	14.974
-1.9	9.797	
-1.8	7.851	
-1.7	9.662	
-1.6	12.401	
-1.5	11.974	
-1.4	8.044	
-1.3	4.174	
-1.2	4.792	
-1.1	4.858	
-1	3.335	
-0.9	9.144	
-0.8	15.413	
-0.7	20.357	
-0.6	21.430	
-0.5	17.231	
-0.4	9.109	
-0.3	19.171	
-0.2	28.685	
-0.1	33.682	
0	33.460	
0.1	33.265	
0.2	34.227	
0.3	32.058	
0.4	26.965	
0.5	15.069	
0.6	7.963	
0.7	13.030	
0.8	16.520	
0.9	16.465	
1	16.430	
1.1	17.235	

1.2	17.334	
1.3	15.118	
1.4	4.500	
1.5	12.688	
1.6	16.291	
1.7	15.284	
1.8	12.346	
1.9	7.913	
2	0.598	14.974
2.1	7.957	14.445
2.2	7.996	13.939
2.3	1.105	13.457
2.4	-4.499	12.995
2.5	-6.698	12.551
2.6	-0.785	12.126
2.7	3.890	11.716
2.8	2.146	11.321
2.9	1.808	10.940
3	3.730	10.572
3.1	-0.258	10.216
3.2	-7.685	9.871
3.3	4.369	9.537
3.4	5.632	9.213
3.5	-1.352	8.898
3.6	-2.481	8.592
3.7	1.633	8.295
3.8	-7.212	8.005
3.9	-3.384	7.723
4	2.297	7.449
4.1	1.798	7.180
4.2	-3.362	6.919
4.3	-13.461	6.663
4.4	-7.586	6.414
4.5	-0.758	6.170
4.6	-0.283	5.931
4.7	0.311	5.698
4.8	1.693	5.469
4.9	-5.652	5.245
5	-4.532	5.026
5.1	2.815	4.811
5.2	1.783	4.600

5.3	-10.064	4.393
5.4	-6.107	4.190
5.5	-7.332	3.991
5.6	-4.442	3.795
5.7	0.883	3.603
5.8	-2.790	3.414
5.9	-9.933	3.229
6	0.292	3.046
6.1	-2.947	2.867
6.2	-5.475	2.690
6.3	-2.891	2.516
6.4	-15.551	2.346
6.5	-2.022	2.177
6.6	-2.027	2.011
6.7	-19.775	1.848
6.8	-3.346	1.687
6.9	-1.230	1.529
7	-2.416	1.373