

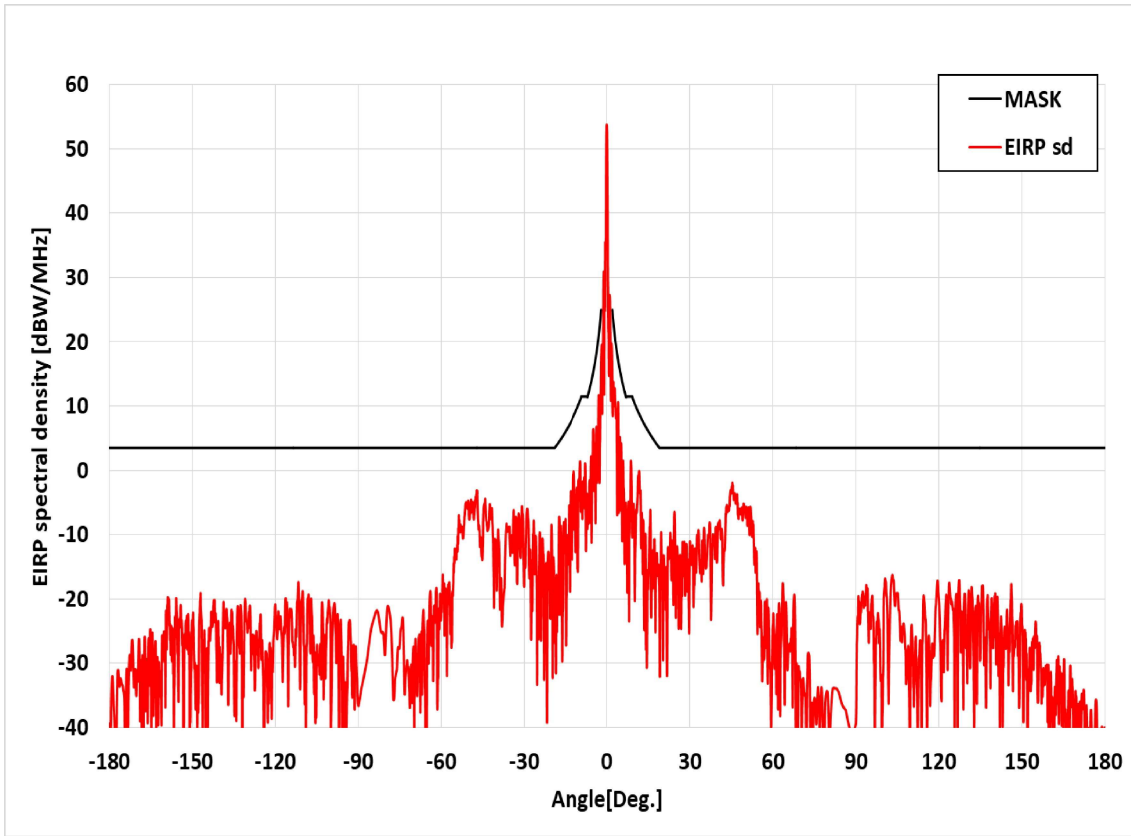
**Exhibit 5B.2 – Plots and Tables with §25.115(g)(1) Information for
Ka-band Antennas**

Exhibit Contains:

Plots and Tables for Intellian V240MTGen2KA antenna.

1. EIRP Spectral Density of v240MT Gen-II Ka-band

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

2. EIRP Spectral Density Data

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-39.401	3.500
-179	-32.024	3.500
-178	-42.542	3.500
-177	-31.090	3.500
-176	-32.371	3.500
-175	-34.265	3.500
-174	-32.807	3.500
-173	-31.347	3.500
-172	-26.963	3.500
-171	-32.421	3.500
-170	-31.043	3.500
-169	-38.953	3.500
-168	-30.409	3.500
-167	-37.420	3.500
-166	-29.681	3.500
-165	-30.408	3.500
-164	-29.699	3.500
-163	-32.819	3.500
-162	-32.069	3.500
-161	-25.793	3.500
-160	-25.587	3.500
-159	-20.810	3.500
-158	-25.758	3.500
-157	-31.660	3.500
-156	-22.608	3.500
-155	-29.675	3.500
-154	-23.283	3.500
-153	-27.957	3.500
-152	-22.628	3.500
-151	-52.302	3.500
-150	-23.908	3.500
-149	-34.197	3.500
-148	-37.697	3.500
-147	-21.262	3.500
-146	-30.913	3.500
-145	-32.308	3.500
-144	-24.530	3.500
-143	-24.079	3.500
-142	-20.256	3.500
-141	-27.239	3.500
-140	-30.456	3.500

-139	-24.760	3.500
-138	-23.506	3.500
-137	-33.743	3.500
-136	-22.747	3.500
-135	-31.198	3.500
-134	-27.338	3.500
-133	-27.708	3.500
-132	-50.883	3.500
-131	-20.016	3.500
-130	-24.136	3.500
-129	-23.582	3.500
-128	-25.634	3.500
-127	-25.522	3.500
-126	-26.564	3.500
-125	-27.792	3.500
-124	-38.841	3.500
-123	-30.168	3.500
-122	-29.347	3.500
-121	-31.364	3.500
-120	-21.845	3.500
-119	-21.953	3.500
-118	-24.172	3.500
-117	-25.272	3.500
-116	-20.655	3.500
-115	-22.731	3.500
-114	-24.172	3.500
-113	-30.539	3.500
-112	-19.966	3.500
-111	-31.983	3.500
-110	-20.455	3.500
-109	-47.247	3.500
-108	-19.790	3.500
-107	-21.278	3.500
-106	-34.699	3.500
-105	-27.203	3.500
-104	-29.762	3.500
-103	-21.006	3.500
-102	-32.363	3.500
-101	-21.522	3.500
-100	-44.477	3.500
-99	-21.276	3.500

-98	-29.843	3.500
-97	-44.051	3.500
-96	-32.666	3.500
-95	-38.782	3.500
-94	-33.317	3.500
-93	-23.964	3.500
-92	-27.865	3.500
-91	-27.395	3.500
-90	-36.632	3.500
-89	-34.061	3.500
-88	-31.986	3.500
-87	-29.683	3.500
-86	-26.419	3.500
-85	-23.916	3.500
-84	-22.371	3.500
-83	-22.096	3.500
-82	-24.840	3.500
-81	-25.412	3.500
-80	-24.686	3.500
-79	-21.603	3.500
-78	-26.462	3.500
-77	-34.905	3.500
-76	-30.077	3.500
-75	-26.460	3.500
-74	-22.890	3.500
-73	-32.197	3.500
-72	-30.535	3.500
-71	-30.533	3.500
-70	-30.744	3.500
-69	-31.797	3.500
-68	-25.547	3.500
-67	-34.861	3.500
-66	-33.579	3.500
-65	-23.448	3.500
-64	-18.788	3.500
-63	-32.721	3.500
-62	-18.730	3.500
-61	-21.633	3.500
-60	-19.348	3.500
-59	-17.677	3.500
-58	-31.954	3.500

-57	-19.342	3.500
-56	-18.795	3.500
-55	-12.257	3.500
-54	-11.410	3.500
-53	-8.861	3.500
-52	-9.791	3.500
-51	-5.007	3.500
-50	-7.547	3.500
-49	-6.515	3.500
-48	-5.774	3.500
-47	-5.182	3.500
-46	-11.208	3.500
-45	-10.779	3.500
-44	-5.933	3.500
-43	-8.905	3.500
-42	-6.813	3.500
-41	-21.353	3.500
-40	-18.660	3.500
-39	-14.283	3.500
-38	-23.516	3.500
-37	-14.049	3.500
-36	-9.508	3.500
-35	-11.795	3.500
-34	-6.779	3.500
-33	-7.917	3.500
-32	-6.950	3.500
-31	-7.469	3.500
-30	-14.874	3.500
-29	-5.985	3.500
-28	-12.805	3.500
-27	-15.400	3.500
-26	-11.122	3.500
-25	-20.282	3.500
-24	-26.306	3.500
-23	-17.112	3.500
-22	-21.177	3.500
-21	-18.229	3.500
-20	-12.332	3.500
-19	-23.696	3.531
-18	-18.278	4.118
-17	-17.045	4.739

-16	-19.667	5.397
-15	-12.135	6.098
-14	-13.604	6.847
-13	-5.939	7.651
-12	-0.161	8.520
-11	-4.907	9.465
-10	-1.793	10.500
-9	-2.499	11.500
-8	-5.836	11.500
-7	-9.095	11.373
-6	-8.119	13.046
-5	2.300	15.026
-4	-7.994	17.449
-3	8.788	20.572
-2	16.647	24.974
-1	28.962	
-1.00044E-11	53.760	
1	25.183	
2	15.312	24.974
3	11.740	20.572
4	7.728	17.449
5	-6.164	15.026
6	0.124	13.046
7	-7.090	11.373
8	-9.393	11.500
9	-3.437	11.500
10	-10.903	10.500
11	-5.428	9.465
12	-3.573	8.520
13	-16.123	7.651
14	-9.934	6.847
15	-17.070	6.098
16	-20.077	5.397
17	-18.318	4.739
18	-14.059	4.118
19	-18.837	3.531
20	-14.320	3.500
21	-15.863	3.500
22	-14.237	3.500
23	-9.749	3.500
24	-17.557	3.500

25	-22.931	3.500
26	-24.586	3.500
27	-20.350	3.500
28	-11.115	3.500
29	-16.053	3.500
30	-13.158	3.500
31	-11.690	3.500
32	-12.126	3.500
33	-10.262	3.500
34	-13.995	3.500
35	-11.706	3.500
36	-15.072	3.500
37	-9.871	3.500
38	-13.633	3.500
39	-11.849	3.500
40	-11.941	3.500
41	-8.840	3.500
42	-17.152	3.500
43	-6.705	3.500
44	-6.081	3.500
45	-3.066	3.500
46	-4.122	3.500
47	-4.772	3.500
48	-6.614	3.500
49	-7.121	3.500
50	-6.321	3.500
51	-8.424	3.500
52	-5.945	3.500
53	-8.428	3.500
54	-14.382	3.500
55	-19.487	3.500
56	-25.484	3.500
57	-28.823	3.500
58	-23.358	3.500
59	-30.552	3.500
60	-24.080	3.500
61	-25.685	3.500
62	-31.368	3.500
63	-26.748	3.500
64	-22.387	3.500
65	-23.061	3.500

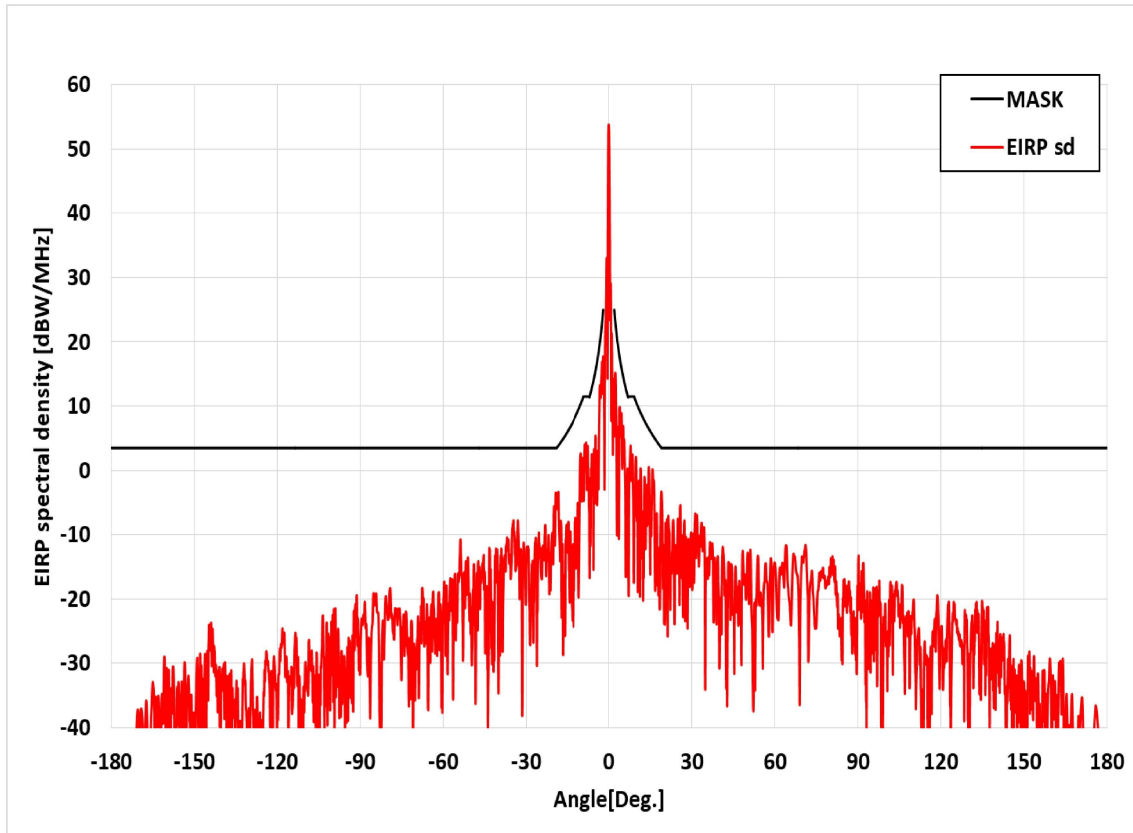
66	-27.455	3.500
67	-27.764	3.500
68	-21.718	3.500
69	-43.492	3.500
70	-32.626	3.500
71	-32.348	3.500
72	-40.104	3.500
73	-28.486	3.500
74	-36.791	3.500
75	-35.516	3.500
76	-36.655	3.500
77	-40.911	3.500
78	-37.714	3.500
79	-36.019	3.500
80	-36.065	3.500
81	-37.960	3.500
82	-33.858	3.500
83	-33.941	3.500
84	-34.758	3.500
85	-36.353	3.500
86	-37.094	3.500
87	-38.639	3.500
88	-40.446	3.500
89	-40.816	3.500
90	-39.486	3.500
91	-20.010	3.500
92	-20.885	3.500
93	-20.937	3.500
94	-18.600	3.500
95	-22.135	3.500
96	-19.561	3.500
97	-36.505	3.500
98	-22.213	3.500
99	-32.465	3.500
100	-29.494	3.500
101	-18.780	3.500
102	-31.536	3.500
103	-16.850	3.500
104	-20.200	3.500
105	-19.228	3.500
106	-24.167	3.500

107	-24.541	3.500
108	-27.922	3.500
109	-27.429	3.500
110	-26.274	3.500
111	-36.740	3.500
112	-33.275	3.500
113	-28.654	3.500
114	-27.077	3.500
115	-22.209	3.500
116	-29.194	3.500
117	-34.738	3.500
118	-28.702	3.500
119	-20.715	3.500
120	-19.852	3.500
121	-35.857	3.500
122	-26.750	3.500
123	-24.442	3.500
124	-18.478	3.500
125	-21.362	3.500
126	-21.791	3.500
127	-21.595	3.500
128	-28.303	3.500
129	-25.137	3.500
130	-26.166	3.500
131	-19.738	3.500
132	-19.186	3.500
133	-25.794	3.500
134	-21.676	3.500
135	-29.122	3.500
136	-18.648	3.500
137	-33.698	3.500
138	-23.160	3.500
139	-22.443	3.500
140	-24.903	3.500
141	-21.608	3.500
142	-31.333	3.500
143	-29.803	3.500
144	-24.798	3.500
145	-25.808	3.500
146	-20.181	3.500
147	-28.943	3.500

148	-23.609	3.500
149	-36.822	3.500
150	-21.646	3.500
151	-27.379	3.500
152	-48.659	3.500
153	-30.321	3.500
154	-26.206	3.500
155	-23.542	3.500
156	-31.717	3.500
157	-32.669	3.500
158	-31.773	3.500
159	-31.530	3.500
160	-35.257	3.500
161	-35.293	3.500
162	-33.690	3.500
163	-31.936	3.500
164	-31.421	3.500
165	-40.985	3.500
166	-53.044	3.500
167	-34.243	3.500
168	-36.707	3.500
169	-38.798	3.500
170	-42.728	3.500
171	-35.999	3.500
172	-37.153	3.500
173	-39.919	3.500
174	-40.118	3.500
175	-37.310	3.500
176	-45.722	3.500
177	-36.481	3.500
178	-42.901	3.500
179	-39.88	3.500
180	-39.986	3.500

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

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-58.734	3.500
-179	-63.261	3.500
-178	-60.489	3.500
-177	-54.199	3.500
-176	-49.011	3.500
-175	-48.906	3.500
-174	-63.972	3.500
-173	-47.569	3.500
-172	-43.283	3.500
-171	-40.398	3.500
-170	-58.086	3.500
-169	-38.019	3.500
-168	-41.023	3.500
-167	-42.532	3.500
-166	-53.014	3.500
-165	-33.243	3.500
-164	-35.187	3.500
-163	-35.200	3.500
-162	-38.406	3.500
-161	-29.659	3.500
-160	-31.782	3.500
-159	-41.901	3.500
-158	-34.791	3.500
-157	-51.028	3.500
-156	-39.523	3.500
-155	-46.571	3.500
-154	-36.578	3.500
-153	-45.269	3.500
-152	-34.184	3.500
-151	-43.703	3.500
-150	-44.465	3.500
-149	-29.189	3.500
-148	-28.611	3.500
-147	-33.210	3.500
-146	-33.119	3.500
-145	-35.765	3.500
-144	-23.717	3.500
-143	-31.382	3.500
-142	-34.996	3.500
-141	-30.771	3.500
-140	-30.830	3.500

-139	-29.933	3.500
-138	-32.741	3.500
-137	-37.543	3.500
-136	-37.886	3.500
-135	-35.387	3.500
-134	-40.357	3.500
-133	-39.144	3.500
-132	-31.451	3.500
-131	-40.656	3.500
-130	-41.739	3.500
-129	-33.366	3.500
-128	-43.739	3.500
-127	-44.839	3.500
-126	-39.181	3.500
-125	-34.485	3.500
-124	-28.155	3.500
-123	-32.563	3.500
-122	-36.346	3.500
-121	-30.668	3.500
-120	-35.611	3.500
-119	-29.675	3.500
-118	-26.837	3.500
-117	-30.618	3.500
-116	-41.110	3.500
-115	-30.545	3.500
-114	-33.793	3.500
-113	-30.142	3.500
-112	-32.446	3.500
-111	-37.111	3.500
-110	-30.143	3.500
-109	-34.709	3.500
-108	-30.085	3.500
-107	-31.354	3.500
-106	-33.497	3.500
-105	-31.796	3.500
-104	-28.043	3.500
-103	-41.152	3.500
-102	-30.482	3.500
-101	-37.148	3.500
-100	-23.813	3.500
-99	-25.352	3.500

-98	-24.893	3.500
-97	-32.885	3.500
-96	-30.896	3.500
-95	-39.088	3.500
-94	-29.377	3.500
-93	-30.171	3.500
-92	-23.708	3.500
-91	-25.766	3.500
-90	-27.385	3.500
-89	-22.744	3.500
-88	-24.077	3.500
-87	-26.054	3.500
-86	-25.209	3.500
-85	-20.995	3.500
-84	-22.068	3.500
-83	-39.116	3.500
-82	-23.886	3.500
-81	-20.876	3.500
-80	-23.223	3.500
-79	-21.498	3.500
-78	-25.661	3.500
-77	-21.834	3.500
-76	-21.606	3.500
-75	-26.289	3.500
-74	-27.570	3.500
-73	-27.654	3.500
-72	-34.882	3.500
-71	-45.145	3.500
-70	-27.783	3.500
-69	-29.607	3.500
-68	-21.455	3.500
-67	-24.639	3.500
-66	-20.905	3.500
-65	-26.041	3.500
-64	-21.703	3.500
-63	-28.463	3.500
-62	-23.475	3.500
-61	-21.575	3.500
-60	-20.552	3.500
-59	-21.344	3.500
-58	-22.625	3.500

-57	-18.358	3.500
-56	-18.667	3.500
-55	-23.638	3.500
-54	-12.527	3.500
-53	-24.817	3.500
-52	-15.389	3.500
-51	-14.812	3.500
-50	-22.659	3.500
-49	-14.611	3.500
-48	-16.959	3.500
-47	-15.004	3.500
-46	-15.032	3.500
-45	-18.244	3.500
-44	-27.450	3.500
-43	-15.831	3.500
-42	-20.754	3.500
-41	-12.163	3.500
-40	-26.049	3.500
-39	-12.876	3.500
-38	-14.144	3.500
-37	-10.450	3.500
-36	-14.145	3.500
-35	-9.672	3.500
-34	-15.636	3.500
-33	-8.855	3.500
-32	-12.240	3.500
-31	-11.318	3.500
-30	-14.334	3.500
-29	-19.112	3.500
-28	-14.620	3.500
-27	-12.825	3.500
-26	-22.002	3.500
-25	-13.632	3.500
-24	-11.696	3.500
-23	-13.711	3.500
-22	-10.058	3.500
-21	-13.386	3.500
-20	-5.572	3.500
-19	-3.560	3.531
-18	-11.297	4.118
-17	-13.002	4.739

-16	-25.707	5.397
-15	-12.770	6.098
-14	-12.721	6.847
-13	-15.919	7.651
-12	-12.313	8.520
-11	-17.538	9.465
-10	1.841	10.500
-9	-3.801	11.500
-8	-0.115	11.500
-7	-7.236	11.373
-6	-3.135	13.046
-5	-5.108	15.026
-4	-0.845	17.449
-3	12.243	20.572
-2	17.732	24.974
-1	25.245	
-1.00044E-11	53.760	
1	18.716	
2	5.384	24.974
3	-9.911	20.572
4	9.827	17.449
5	3.915	15.026
6	-4.915	13.046
7	-3.854	11.373
8	2.822	11.500
9	-8.968	11.500
10	-0.760	10.500
11	-3.969	9.465
12	-6.614	8.520
13	-1.759	7.651
14	-8.409	6.847
15	-16.103	6.098
16	-1.037	5.397
17	-10.810	4.739
18	-19.431	4.118
19	-3.312	3.531
20	-23.697	3.500
21	-9.020	3.500
22	-13.068	3.500
23	-12.238	3.500
24	-11.602	3.500

25	-7.556	3.500
26	-9.401	3.500
27	-15.238	3.500
28	-10.954	3.500
29	-12.248	3.500
30	-12.398	3.500
31	-10.728	3.500
32	-7.568	3.500
33	-10.443	3.500
34	-12.566	3.500
35	-20.039	3.500
36	-13.787	3.500
37	-13.690	3.500
38	-22.285	3.500
39	-23.874	3.500
40	-30.709	3.500
41	-14.222	3.500
42	-18.594	3.500
43	-21.431	3.500
44	-23.234	3.500
45	-21.570	3.500
46	-17.211	3.500
47	-19.848	3.500
48	-30.183	3.500
49	-17.765	3.500
50	-15.890	3.500
51	-15.147	3.500
52	-28.784	3.500
53	-28.508	3.500
54	-13.605	3.500
55	-19.392	3.500
56	-18.660	3.500
57	-16.944	3.500
58	-23.748	3.500
59	-19.612	3.500
60	-14.344	3.500
61	-22.988	3.500
62	-15.199	3.500
63	-14.769	3.500
64	-11.711	3.500
65	-19.422	3.500

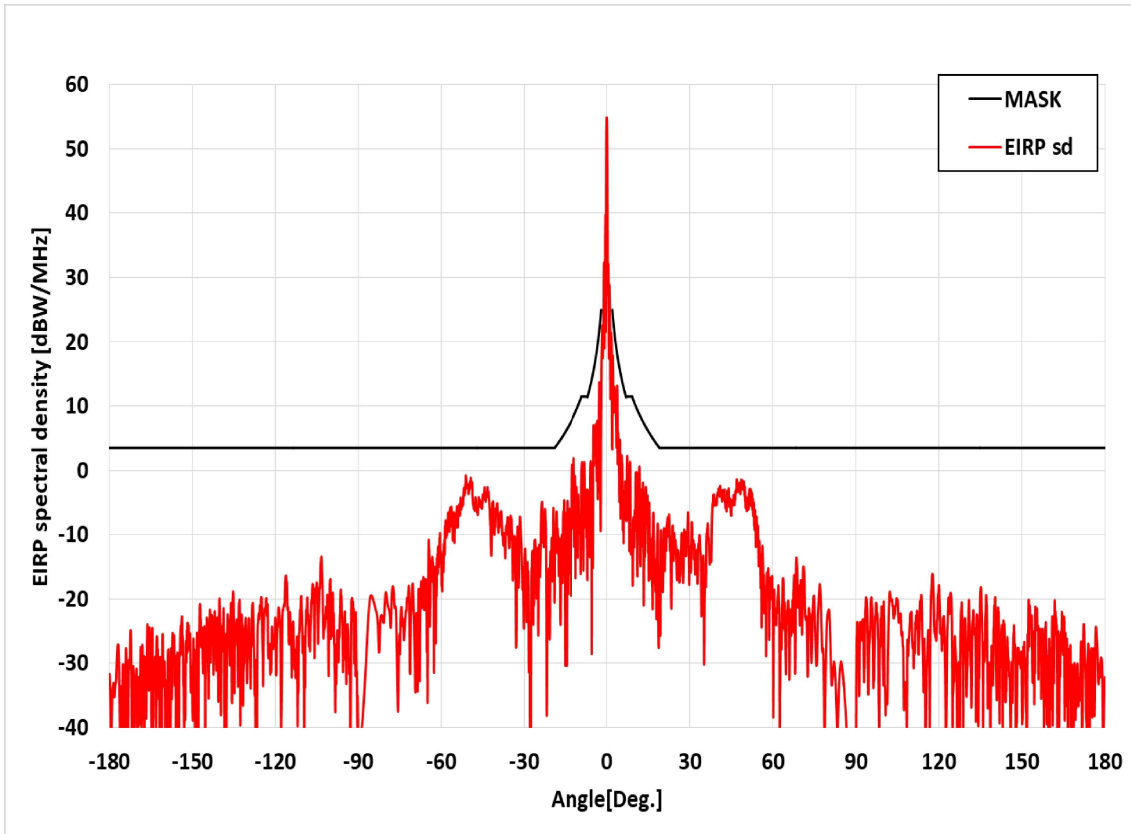
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67	-13.255	3.500
68	-16.080	3.500
69	-36.476	3.500
70	-13.618	3.500
71	-11.815	3.500
72	-20.328	3.500
73	-17.498	3.500
74	-19.974	3.500
75	-24.537	3.500
76	-16.673	3.500
77	-16.465	3.500
78	-16.371	3.500
79	-17.835	3.500
80	-16.566	3.500
81	-14.909	3.500
82	-19.287	3.500
83	-23.838	3.500
84	-23.017	3.500
85	-19.310	3.500
86	-20.950	3.500
87	-20.130	3.500
88	-28.435	3.500
89	-28.432	3.500
90	-21.742	3.500
91	-18.540	3.500
92	-14.386	3.500
93	-35.892	3.500
94	-23.497	3.500
95	-28.532	3.500
96	-19.285	3.500
97	-33.536	3.500
98	-22.055	3.500
99	-42.518	3.500
100	-22.172	3.500
101	-28.928	3.500
102	-22.222	3.500
103	-21.185	3.500
104	-17.366	3.500
105	-21.867	3.500
106	-17.813	3.500

107	-34.735	3.500
108	-23.818	3.500
109	-25.288	3.500
110	-21.510	3.500
111	-37.081	3.500
112	-24.533	3.500
113	-44.547	3.500
114	-27.818	3.500
115	-28.891	3.500
116	-40.972	3.500
117	-25.957	3.500
118	-25.305	3.500
119	-20.703	3.500
120	-25.607	3.500
121	-30.665	3.500
122	-26.194	3.500
123	-22.184	3.500
124	-28.705	3.500
125	-20.884	3.500
126	-25.204	3.500
127	-27.281	3.500
128	-28.456	3.500
129	-22.893	3.500
130	-46.512	3.500
131	-24.446	3.500
132	-24.127	3.500
133	-20.468	3.500
134	-34.800	3.500
135	-21.254	3.500
136	-23.830	3.500
137	-23.765	3.500
138	-31.320	3.500
139	-34.278	3.500
140	-26.844	3.500
141	-33.564	3.500
142	-27.666	3.500
143	-31.650	3.500
144	-36.259	3.500
145	-26.039	3.500
146	-39.261	3.500
147	-32.937	3.500

148	-39.091	3.500
149	-32.835	3.500
150	-32.888	3.500
151	-42.040	3.500
152	-28.198	3.500
153	-37.093	3.500
154	-34.483	3.500
155	-33.703	3.500
156	-45.374	3.500
157	-35.915	3.500
158	-34.737	3.500
159	-32.953	3.500
160	-41.391	3.500
161	-35.751	3.500
162	-34.965	3.500
163	-29.978	3.500
164	-29.646	3.500
165	-42.288	3.500
166	-40.812	3.500
167	-39.700	3.500
168	-40.698	3.500
169	-41.660	3.500
170	-39.662	3.500
171	-35.316	3.500
172	-50.816	3.500
173	-43.514	3.500
174	-68.847	3.500
175	-52.827	3.500
176	-36.563	3.500
177	-41.411	3.500
178	-50.702	3.500
179	-58.489	3.500
180	-66.457	3.500

9. EIRP Spectral Density of v240MT Gen-II Ka-band

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

10. EIRP Spectral Density Data

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-31.719	3.500
-179	-34.648	3.500
-178	-33.631	3.500
-177	-27.148	3.500
-176	-35.006	3.500
-175	-31.319	3.500
-174	-27.922	3.500
-173	-29.506	3.500
-172	-36.661	3.500
-171	-39.647	3.500
-170	-51.401	3.500
-169	-39.412	3.500
-168	-32.312	3.500
-167	-29.099	3.500
-166	-30.038	3.500
-165	-29.554	3.500
-164	-30.103	3.500
-163	-26.815	3.500
-162	-38.650	3.500
-161	-33.111	3.500
-160	-33.680	3.500
-159	-38.203	3.500
-158	-40.918	3.500
-157	-28.306	3.500
-156	-43.516	3.500
-155	-39.352	3.500
-154	-23.704	3.500
-153	-40.711	3.500
-152	-24.915	3.500
-151	-28.039	3.500
-150	-37.711	3.500
-149	-39.018	3.500
-148	-29.233	3.500
-147	-23.272	3.500
-146	-28.463	3.500
-145	-27.701	3.500
-144	-26.696	3.500
-143	-22.600	3.500
-142	-21.937	3.500
-141	-22.900	3.500
-140	-24.644	3.500

-139	-26.604	3.500
-138	-26.008	3.500
-137	-23.226	3.500
-136	-22.434	3.500
-135	-24.658	3.500
-134	-23.213	3.500
-133	-20.176	3.500
-132	-24.262	3.500
-131	-24.164	3.500
-130	-29.000	3.500
-129	-33.924	3.500
-128	-23.668	3.500
-127	-29.497	3.500
-126	-22.891	3.500
-125	-20.050	3.500
-124	-21.711	3.500
-123	-21.135	3.500
-122	-29.526	3.500
-121	-27.130	3.500
-120	-23.727	3.500
-119	-21.541	3.500
-118	-40.149	3.500
-117	-21.033	3.500
-116	-17.303	3.500
-115	-25.713	3.500
-114	-27.441	3.500
-113	-28.011	3.500
-112	-39.839	3.500
-111	-21.624	3.500
-110	-25.802	3.500
-109	-23.655	3.500
-108	-25.740	3.500
-107	-20.172	3.500
-106	-24.555	3.500
-105	-17.578	3.500
-104	-18.464	3.500
-103	-17.736	3.500
-102	-23.000	3.500
-101	-24.415	3.500
-100	-25.970	3.500
-99	-22.271	3.500

-98	-33.217	3.500
-97	-24.852	3.500
-96	-21.880	3.500
-95	-23.522	3.500
-94	-24.011	3.500
-93	-41.642	3.500
-92	-20.427	3.500
-91	-24.004	3.500
-90	-42.575	3.500
-89	-40.728	3.500
-88	-35.357	3.500
-87	-27.214	3.500
-86	-20.455	3.500
-85	-19.718	3.500
-84	-21.282	3.500
-83	-23.712	3.500
-82	-23.012	3.500
-81	-23.625	3.500
-80	-19.151	3.500
-79	-21.665	3.500
-78	-20.184	3.500
-77	-21.282	3.500
-76	-31.092	3.500
-75	-28.576	3.500
-74	-23.112	3.500
-73	-22.623	3.500
-72	-19.107	3.500
-71	-22.298	3.500
-70	-22.749	3.500
-69	-25.858	3.500
-68	-25.095	3.500
-67	-21.377	3.500
-66	-18.381	3.500
-65	-36.147	3.500
-64	-21.201	3.500
-63	-17.351	3.500
-62	-26.805	3.500
-61	-15.044	3.500
-60	-13.659	3.500
-59	-13.228	3.500
-58	-10.067	3.500

-57	-6.186	3.500
-56	-7.624	3.500
-55	-6.837	3.500
-54	-6.195	3.500
-53	-4.426	3.500
-52	-3.689	3.500
-51	-1.238	3.500
-50	-2.941	3.500
-49	-2.596	3.500
-48	-5.798	3.500
-47	-6.409	3.500
-46	-5.621	3.500
-45	-3.759	3.500
-44	-4.838	3.500
-43	-3.336	3.500
-42	-13.247	3.500
-41	-9.743	3.500
-40	-6.208	3.500
-39	-8.838	3.500
-38	-10.009	3.500
-37	-12.868	3.500
-36	-7.282	3.500
-35	-7.103	3.500
-34	-13.872	3.500
-33	-27.542	3.500
-32	-15.466	3.500
-31	-12.861	3.500
-30	-16.268	3.500
-29	-15.734	3.500
-28	-42.662	3.500
-27	-13.990	3.500
-26	-11.493	3.500
-25	-25.629	3.500
-24	-8.276	3.500
-23	-11.910	3.500
-22	-24.701	3.500
-21	-19.724	3.500
-20	-13.250	3.500
-19	-16.554	3.531
-18	-9.156	4.118
-17	-22.740	4.739

-16	-7.529	5.397
-15	-6.674	6.098
-14	-10.237	6.847
-13	-10.994	7.651
-12	1.846	8.520
-11	-2.857	9.465
-10	-8.455	10.500
-9	0.997	11.500
-8	-0.440	11.500
-7	-17.071	11.373
-6	-3.885	13.046
-5	-14.973	15.026
-4	3.700	17.449
-3	4.535	20.572
-2	10.968	24.974
-1	32.270	
-1.00044E-11	54.860	
1	28.821	
2	3.267	24.974
3	9.126	20.572
4	1.024	17.449
5	-7.377	15.026
6	-7.798	13.046
7	-5.001	11.373
8	-3.283	11.500
9	-11.711	11.500
10	-11.810	10.500
11	-4.130	9.465
12	-4.503	8.520
13	-3.668	7.651
14	-4.723	6.847
15	-8.665	6.098
16	-13.094	5.397
17	-10.448	4.739
18	-23.153	4.118
19	-17.075	3.531
20	-11.298	3.500
21	-15.562	3.500
22	-7.367	3.500
23	-10.373	3.500
24	-10.723	3.500

25	-11.799	3.500
26	-14.661	3.500
27	-10.042	3.500
28	-9.234	3.500
29	-11.475	3.500
30	-12.242	3.500
31	-11.422	3.500
32	-16.157	3.500
33	-13.023	3.500
34	-13.575	3.500
35	-14.544	3.500
36	-11.136	3.500
37	-12.161	3.500
38	-8.014	3.500
39	-4.412	3.500
40	-3.796	3.500
41	-2.412	3.500
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53	-4.948	3.500
54	-7.176	3.500
55	-12.506	3.500
56	-24.437	3.500
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60	-21.409	3.500
61	-21.586	3.500
62	-17.923	3.500
63	-23.712	3.500
64	-22.582	3.500
65	-23.042	3.500

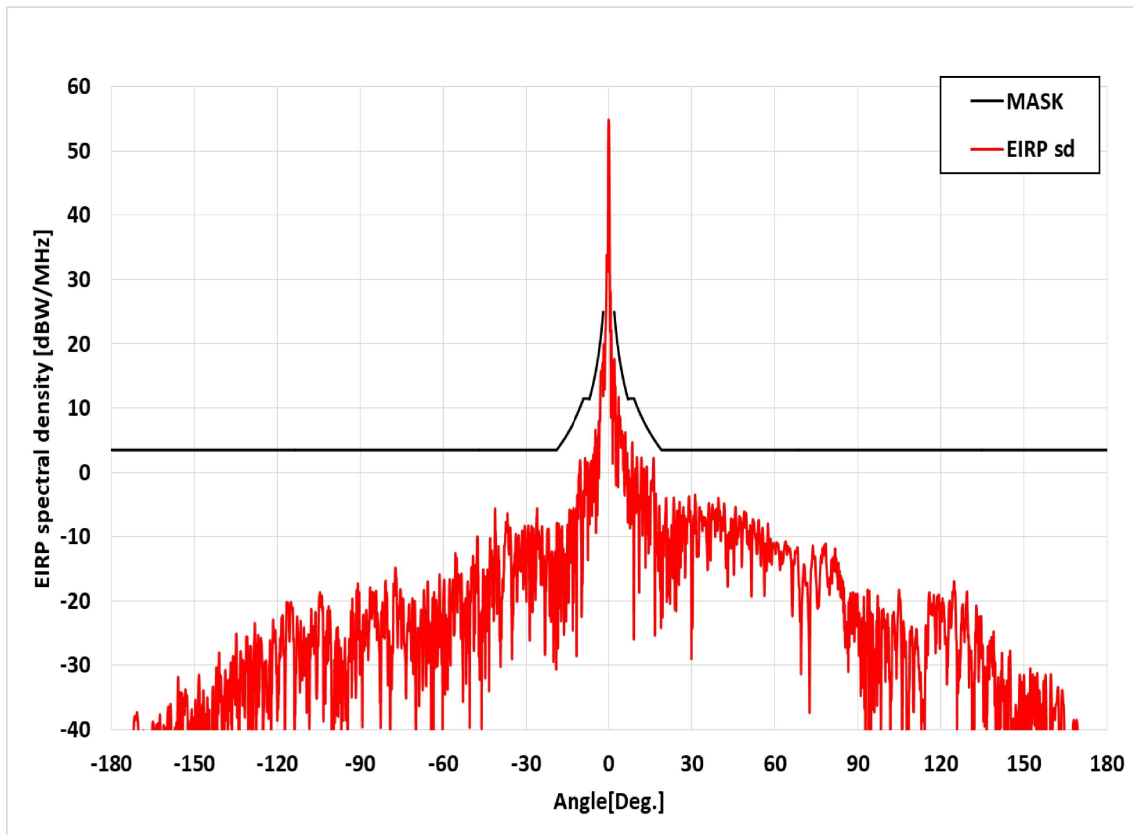
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67	-22.456	3.500
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69	-20.194	3.500
70	-19.202	3.500
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73	-21.465	3.500
74	-29.956	3.500
75	-20.221	3.500
76	-29.386	3.500
77	-17.695	3.500
78	-28.334	3.500
79	-35.378	3.500
80	-21.998	3.500
81	-29.280	3.500
82	-30.204	3.500
83	-36.389	3.500
84	-33.368	3.500
85	-30.485	3.500
86	-35.340	3.500
87	-42.993	3.500
88	-46.278	3.500
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90	-44.602	3.500
91	-29.810	3.500
92	-25.723	3.500
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99	-23.222	3.500
100	-33.263	3.500
101	-35.483	3.500
102	-21.374	3.500
103	-20.042	3.500
104	-22.489	3.500
105	-20.121	3.500
106	-22.944	3.500

107	-27.426	3.500
108	-33.125	3.500
109	-28.489	3.500
110	-22.820	3.500
111	-29.570	3.500
112	-23.059	3.500
113	-24.172	3.500
114	-25.691	3.500
115	-31.774	3.500
116	-26.233	3.500
117	-25.486	3.500
118	-17.956	3.500
119	-26.381	3.500
120	-18.169	3.500
121	-26.231	3.500
122	-24.073	3.500
123	-27.006	3.500
124	-21.586	3.500
125	-42.322	3.500
126	-27.485	3.500
127	-34.254	3.500
128	-22.766	3.500
129	-27.845	3.500
130	-35.096	3.500
131	-21.633	3.500
132	-27.008	3.500
133	-24.956	3.500
134	-24.464	3.500
135	-19.137	3.500
136	-42.877	3.500
137	-21.688	3.500
138	-34.196	3.500
139	-30.466	3.500
140	-22.189	3.500
141	-35.748	3.500
142	-39.186	3.500
143	-31.337	3.500
144	-31.291	3.500
145	-30.161	3.500
146	-43.310	3.500
147	-25.271	3.500

148	-41.595	3.500
149	-30.005	3.500
150	-35.934	3.500
151	-28.323	3.500
152	-30.274	3.500
153	-23.014	3.500
154	-27.224	3.500
155	-21.465	3.500
156	-32.449	3.500
157	-35.360	3.500
158	-40.752	3.500
159	-39.473	3.500
160	-29.150	3.500
161	-22.729	3.500
162	-22.024	3.500
163	-27.476	3.500
164	-25.576	3.500
165	-28.714	3.500
166	-28.647	3.500
167	-27.828	3.500
168	-30.822	3.500
169	-30.048	3.500
170	-30.091	3.500
171	-35.735	3.500
172	-35.330	3.500
173	-30.939	3.500
174	-26.989	3.500
175	-28.207	3.500
176	-28.135	3.500
177	-25.678	3.500
178	-30.232	3.500
179	-30.3	3.500
180	-32.167	3.500

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

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-58.745	3.500
-179	-63.523	3.500
-178	-60.828	3.500
-177	-54.242	3.500
-176	-48.348	3.500
-175	-44.268	3.500
-174	-41.578	3.500
-173	-55.446	3.500
-172	-39.537	3.500
-171	-37.996	3.500
-170	-43.919	3.500
-169	-47.617	3.500
-168	-43.730	3.500
-167	-40.689	3.500
-166	-45.921	3.500
-165	-38.825	3.500
-164	-42.589	3.500
-163	-39.483	3.500
-162	-47.753	3.500
-161	-40.138	3.500
-160	-40.302	3.500
-159	-45.805	3.500
-158	-41.479	3.500
-157	-40.491	3.500
-156	-32.439	3.500
-155	-34.273	3.500
-154	-35.190	3.500
-153	-36.248	3.500
-152	-41.853	3.500
-151	-36.919	3.500
-150	-48.187	3.500
-149	-47.996	3.500
-148	-48.065	3.500
-147	-47.723	3.500
-146	-37.654	3.500
-145	-41.185	3.500
-144	-43.169	3.500
-143	-42.085	3.500
-142	-31.124	3.500
-141	-33.487	3.500
-140	-34.816	3.500

-139	-33.255	3.500
-138	-39.635	3.500
-137	-31.452	3.500
-136	-29.462	3.500
-135	-27.318	3.500
-134	-50.348	3.500
-133	-32.923	3.500
-132	-34.756	3.500
-131	-25.950	3.500
-130	-32.200	3.500
-129	-39.653	3.500
-128	-27.114	3.500
-127	-25.307	3.500
-126	-25.767	3.500
-125	-37.581	3.500
-124	-32.068	3.500
-123	-30.004	3.500
-122	-33.423	3.500
-121	-26.418	3.500
-120	-37.081	3.500
-119	-27.479	3.500
-118	-24.320	3.500
-117	-26.683	3.500
-116	-21.196	3.500
-115	-20.870	3.500
-114	-27.134	3.500
-113	-23.195	3.500
-112	-31.595	3.500
-111	-32.300	3.500
-110	-28.494	3.500
-109	-29.461	3.500
-108	-25.951	3.500
-107	-24.502	3.500
-106	-34.049	3.500
-105	-20.223	3.500
-104	-19.143	3.500
-103	-28.631	3.500
-102	-23.189	3.500
-101	-22.623	3.500
-100	-35.898	3.500
-99	-26.307	3.500

-98	-37.908	3.500
-97	-30.272	3.500
-96	-34.464	3.500
-95	-37.221	3.500
-94	-25.866	3.500
-93	-20.868	3.500
-92	-24.835	3.500
-91	-19.900	3.500
-90	-25.692	3.500
-89	-22.142	3.500
-88	-21.767	3.500
-87	-25.052	3.500
-86	-21.760	3.500
-85	-19.036	3.500
-84	-24.643	3.500
-83	-30.317	3.500
-82	-20.275	3.500
-81	-17.377	3.500
-80	-30.738	3.500
-79	-29.037	3.500
-78	-17.335	3.500
-77	-16.502	3.500
-76	-20.805	3.500
-75	-22.670	3.500
-74	-26.697	3.500
-73	-23.704	3.500
-72	-24.081	3.500
-71	-29.277	3.500
-70	-40.812	3.500
-69	-28.545	3.500
-68	-21.479	3.500
-67	-18.317	3.500
-66	-23.206	3.500
-65	-28.220	3.500
-64	-22.126	3.500
-63	-30.325	3.500
-62	-28.022	3.500
-61	-25.269	3.500
-60	-19.348	3.500
-59	-29.883	3.500
-58	-21.260	3.500

-57	-20.796	3.500
-56	-24.474	3.500
-55	-21.034	3.500
-54	-18.741	3.500
-53	-30.888	3.500
-52	-19.697	3.500
-51	-22.150	3.500
-50	-17.039	3.500
-49	-27.732	3.500
-48	-13.943	3.500
-47	-22.865	3.500
-46	-21.322	3.500
-45	-20.178	3.500
-44	-20.411	3.500
-43	-15.803	3.500
-42	-18.080	3.500
-41	-13.358	3.500
-40	-15.678	3.500
-39	-25.772	3.500
-38	-11.409	3.500
-37	-7.621	3.500
-36	-8.752	3.500
-35	-24.433	3.500
-34	-10.839	3.500
-33	-11.558	3.500
-32	-15.004	3.500
-31	-15.761	3.500
-30	-20.071	3.500
-29	-12.925	3.500
-28	-11.585	3.500
-27	-15.753	3.500
-26	-8.655	3.500
-25	-10.154	3.500
-24	-17.474	3.500
-23	-15.960	3.500
-22	-8.785	3.500
-21	-21.236	3.500
-20	-21.353	3.500
-19	-7.880	3.531
-18	-21.013	4.118
-17	-12.133	4.739

-16	-12.800	5.397
-15	-9.351	6.098
-14	-12.458	6.847
-13	-9.741	7.651
-12	-5.950	8.520
-11	-7.203	9.465
-10	-8.967	10.500
-9	-4.715	11.500
-8	-1.549	11.500
-7	-1.944	11.373
-6	-6.727	13.046
-5	4.056	15.026
-4	-4.831	17.449
-3	12.656	20.572
-2	11.976	24.974
-1	24.214	
-1.00044E-11	54.860	
1	22.127	
2	17.635	24.974
3	6.662	20.572
4	7.516	17.449
5	5.390	15.026
6	6.223	13.046
7	-7.000	11.373
8	-2.253	11.500
9	-6.377	11.500
10	-4.687	10.500
11	-18.674	9.465
12	-0.159	8.520
13	-5.478	7.651
14	-8.332	6.847
15	-11.131	6.098
16	-0.805	5.397
17	-3.328	4.739
18	-14.039	4.118
19	-15.804	3.531
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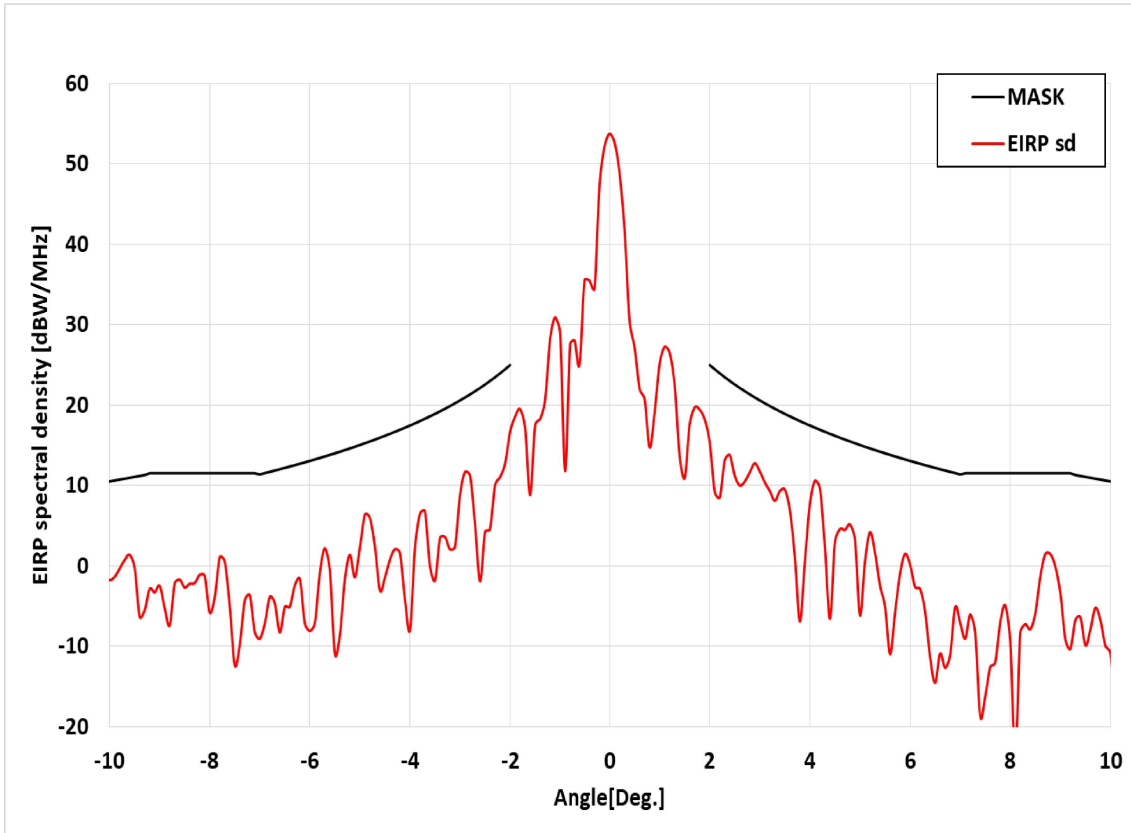
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43	-17.751	3.500
44	-9.923	3.500
45	-8.340	3.500
46	-6.651	3.500
47	-8.519	3.500
48	-12.397	3.500
49	-6.100	3.500
50	-10.834	3.500
51	-9.535	3.500
52	-7.903	3.500
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57	-15.296	3.500
58	-13.211	3.500
59	-13.218	3.500
60	-11.731	3.500
61	-11.501	3.500
62	-14.581	3.500
63	-13.756	3.500
64	-10.850	3.500
65	-11.870	3.500

66	-14.699	3.500
67	-14.313	3.500
68	-12.102	3.500
69	-21.361	3.500
70	-18.981	3.500
71	-16.794	3.500
72	-20.813	3.500
73	-16.261	3.500
74	-12.835	3.500
75	-17.124	3.500
76	-19.882	3.500
77	-14.073	3.500
78	-12.867	3.500
79	-16.287	3.500
80	-16.249	3.500
81	-13.330	3.500
82	-15.394	3.500
83	-14.134	3.500
84	-19.449	3.500
85	-17.986	3.500
86	-26.480	3.500
87	-22.614	3.500
88	-19.961	3.500
89	-21.273	3.500
90	-23.244	3.500
91	-29.875	3.500
92	-23.462	3.500
93	-23.390	3.500
94	-25.090	3.500
95	-22.030	3.500
96	-37.308	3.500
97	-36.094	3.500
98	-26.697	3.500
99	-23.313	3.500
100	-32.440	3.500
101	-24.682	3.500
102	-31.895	3.500
103	-21.695	3.500
104	-32.026	3.500
105	-18.633	3.500
106	-45.111	3.500

107	-27.409	3.500
108	-40.948	3.500
109	-25.153	3.500
110	-32.589	3.500
111	-25.695	3.500
112	-30.470	3.500
113	-40.529	3.500
114	-37.755	3.500
115	-26.002	3.500
116	-19.406	3.500
117	-22.222	3.500
118	-24.969	3.500
119	-19.442	3.500
120	-21.833	3.500
121	-20.811	3.500
122	-25.933	3.500
123	-20.402	3.500
124	-21.223	3.500
125	-18.967	3.500
126	-31.445	3.500
127	-29.605	3.500
128	-22.279	3.500
129	-22.288	3.500
130	-25.269	3.500
131	-27.727	3.500
132	-40.612	3.500
133	-21.078	3.500
134	-28.275	3.500
135	-28.547	3.500
136	-30.315	3.500
137	-27.156	3.500
138	-26.185	3.500
139	-28.675	3.500
140	-38.829	3.500
141	-51.082	3.500
142	-31.150	3.500
143	-43.524	3.500
144	-33.937	3.500
145	-27.837	3.500
146	-43.161	3.500
147	-36.709	3.500

148	-42.154	3.500
149	-33.967	3.500
150	-31.547	3.500
151	-42.395	3.500
152	-35.066	3.500
153	-39.123	3.500
154	-39.204	3.500
155	-33.274	3.500
156	-39.056	3.500
157	-35.545	3.500
158	-32.976	3.500
159	-49.569	3.500
160	-33.732	3.500
161	-36.914	3.500
162	-35.511	3.500
163	-39.279	3.500
164	-33.941	3.500
165	-56.567	3.500
166	-45.809	3.500
167	-43.071	3.500
168	-38.508	3.500
169	-38.693	3.500
170	-45.320	3.500
171	-47.415	3.500
172	-47.533	3.500
173	-57.066	3.500
174	-48.514	3.500
175	-43.412	3.500
176	-42.012	3.500
177	-46.686	3.500
178	-49.756	3.500
179	-54.488	3.500
180	-60.776	3.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-1.793	10.500
-9.9	-1.390	10.609
-9.8	-0.366	10.719
-9.7	0.703	10.831
-9.6	1.367	10.943
-9.5	-0.237	11.057
-9.4	-6.341	11.172
-9.3	-5.558	11.288
-9.2	-2.877	11.500
-9.1	-3.309	11.500
-9	-2.499	11.500
-8.9	-5.275	11.500
-8.8	-7.425	11.500
-8.7	-2.192	11.500
-8.6	-1.729	11.500
-8.5	-2.698	11.500
-8.4	-2.241	11.500
-8.3	-2.151	11.500
-8.2	-1.139	11.500
-8.1	-1.251	11.500
-8	-5.836	11.500
-7.9	-3.940	11.500
-7.8	1.047	11.500
-7.7	0.532	11.500
-7.6	-5.035	11.500
-7.5	-12.367	11.500
-7.4	-9.817	11.500
-7.3	-4.284	11.500
-7.2	-3.656	11.500
-7.1	-8.254	11.500
-7	-9.095	11.373
-6.9	-7.187	11.529
-6.8	-3.889	11.687
-6.7	-4.653	11.848
-6.6	-8.292	12.011
-6.5	-5.133	12.177
-6.4	-5.097	12.346
-6.3	-2.454	12.516
-6.2	-1.647	12.690
-6.1	-7.182	12.867
-6	-8.119	13.046

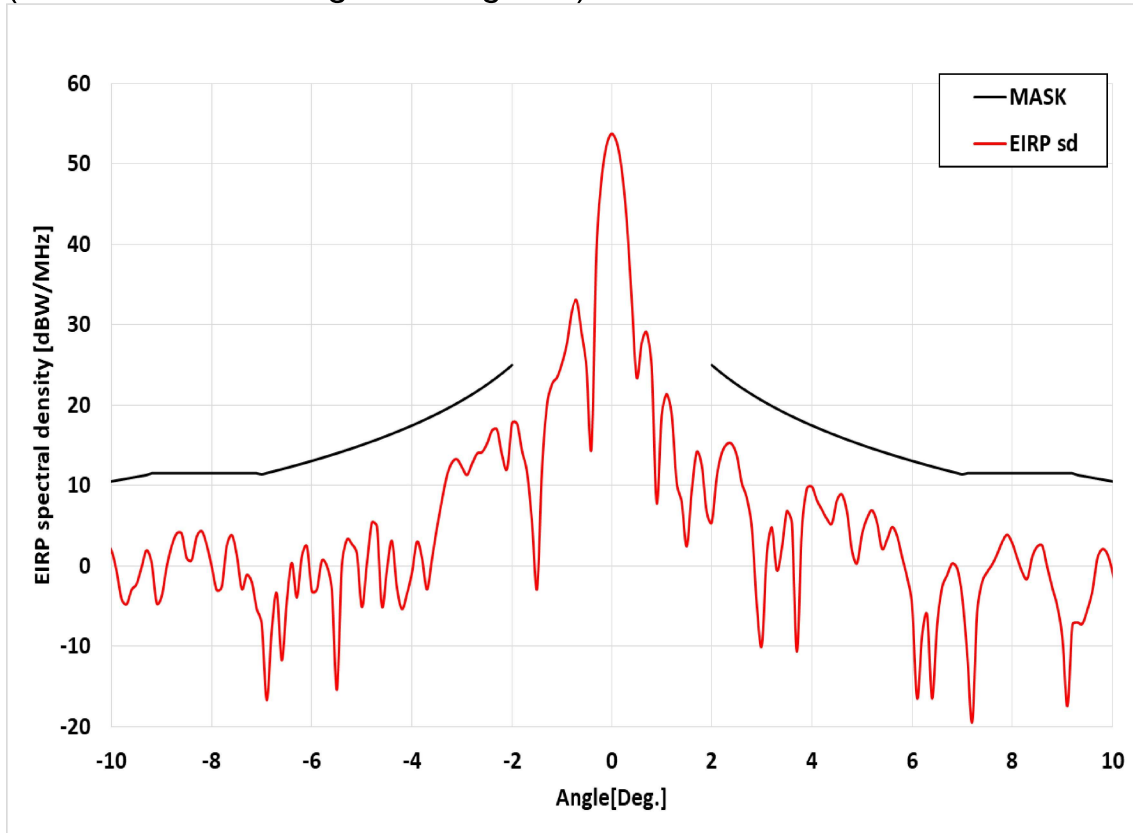
-5.9	-7.159	13.229
-5.8	-0.898	13.414
-5.7	2.167	13.603
-5.6	-0.579	13.795
-5.5	-10.981	13.991
-5.4	-8.627	14.190
-5.3	-1.695	14.393
-5.2	1.369	14.600
-5.1	-1.427	14.811
-5	2.300	15.026
-4.9	6.342	15.245
-4.8	5.942	15.469
-4.7	2.353	15.698
-4.6	-3.061	15.931
-4.5	-1.464	16.170
-4.4	0.771	16.414
-4.3	2.068	16.663
-4.2	1.606	16.919
-4.1	-4.222	17.180
-4	-7.994	17.449
-3.9	2.227	17.723
-3.8	6.480	18.005
-3.7	6.754	18.295
-3.6	-0.066	18.592
-3.5	-1.848	18.898
-3.4	3.461	19.213
-3.3	3.595	19.537
-3.2	2.033	19.871
-3.1	2.353	20.216
-3	8.788	20.572
-2.9	11.686	20.940
-2.8	11.225	21.321
-2.7	5.112	21.716
-2.6	-1.932	22.126
-2.5	4.182	22.551
-2.4	4.570	22.995
-2.3	10.027	23.457
-2.2	11.026	23.939
-2.1	12.701	24.445
-2	16.647	24.974
-1.9	18.553	

-1.8	19.485	
-1.7	17.196	
-1.6	8.801	
-1.5	17.482	
-1.4	18.259	
-1.3	20.650	
-1.2	28.260	
-1.1	30.904	
-1	28.962	
-0.9	11.785	
-0.8	27.596	
-0.7	28.027	
-0.6	25.030	
-0.5	35.512	
-0.4	35.490	
-0.3	34.462	
-0.2	47.253	
-0.1	52.166	
-1.00044E-11	53.760	
0.1	52.656	
0.2	48.817	
0.3	41.688	
0.4	30.482	
0.5	27.212	
0.6	22.002	
0.7	20.708	
0.8	14.734	
0.9	19.113	
1	25.183	
1.1	27.239	
1.2	26.508	
1.3	22.481	
1.4	13.556	
1.5	10.895	
1.6	17.600	
1.7	19.701	
1.8	19.413	
1.9	18.209	
2	15.312	24.974
2.1	9.173	24.445
2.2	8.510	23.939

2.3	13.117	23.457
2.4	13.772	22.995
2.5	11.191	22.551
2.6	9.998	22.126
2.7	10.488	21.716
2.8	11.648	21.321
2.9	12.745	20.940
3	11.740	20.572
3.1	10.374	20.216
3.2	9.292	19.871
3.3	8.088	19.537
3.4	9.286	19.213
3.5	9.473	18.898
3.6	6.898	18.592
3.7	1.042	18.295
3.8	-6.950	18.005
3.9	0.564	17.723
4	7.728	17.449
4.1	10.576	17.180
4.2	9.632	16.919
4.3	2.234	16.663
4.4	-6.588	16.414
4.5	3.006	16.170
4.6	4.561	15.931
4.7	4.482	15.698
4.8	5.126	15.469
4.9	3.301	15.245
5	-6.164	15.026
5.1	0.519	14.811
5.2	4.176	14.600
5.3	1.616	14.393
5.4	-2.499	14.190
5.5	-5.092	13.991
5.6	-11.008	13.795
5.7	-5.782	13.603
5.8	-0.972	13.414
5.9	1.471	13.229
6	0.124	13.046
6.1	-2.637	12.867
6.2	-2.898	12.690
6.3	-5.717	12.516

6.4	-11.380	12.346
6.5	-14.545	12.177
6.6	-10.924	12.011
6.7	-12.707	11.848
6.8	-11.089	11.687
6.9	-5.178	11.529
7	-7.090	11.373
7.1	-9.080	11.500
7.2	-6.078	11.500
7.3	-8.278	11.500
7.4	-18.713	11.500
7.5	-16.234	11.500
7.6	-12.599	11.500
7.7	-12.027	11.500
7.8	-7.009	11.500
7.9	-4.929	11.500
8	-9.393	11.500
8.1	-23.474	11.500
8.2	-8.316	11.500
8.3	-7.272	11.500
8.4	-7.883	11.500
8.5	-5.962	11.500
8.6	-1.346	11.500
8.7	1.455	11.500
8.8	1.458	11.500
8.9	-0.133	11.500
9	-3.437	11.500
9.1	-9.149	11.500
9.2	-10.362	11.500
9.3	-6.745	11.288
9.4	-6.397	11.172
9.5	-9.909	11.057
9.6	-7.917	10.943
9.7	-5.233	10.831
9.8	-6.775	10.719
9.9	-9.969	10.609
10	-10.903	10.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	1.841	10.500
-9.9	-0.690	10.609
-9.8	-4.153	10.719
-9.7	-4.793	10.831
-9.6	-2.999	10.943
-9.5	-2.250	11.057
-9.4	-0.137	11.172
-9.3	1.924	11.288
-9.2	0.368	11.500
-9.1	-4.639	11.500
-9	-3.801	11.500
-8.9	-0.140	11.500
-8.8	2.467	11.500
-8.7	4.014	11.500
-8.6	3.993	11.500
-8.5	0.988	11.500
-8.4	0.725	11.500
-8.3	3.620	11.500
-8.2	4.307	11.500
-8.1	2.578	11.500
-8	-0.115	11.500
-7.9	-3.030	11.500
-7.8	-2.659	11.500
-7.7	2.466	11.500
-7.6	3.811	11.500
-7.5	1.348	11.500
-7.4	-2.883	11.500
-7.3	-1.142	11.500
-7.2	-2.033	11.500
-7.1	-5.395	11.500
-7	-7.236	11.373
-6.9	-16.710	11.529
-6.8	-7.925	11.687
-6.7	-3.449	11.848
-6.6	-11.747	12.011
-6.5	-4.373	12.177
-6.4	0.344	12.346
-6.3	-3.938	12.516
-6.2	1.180	12.690
-6.1	2.411	12.867
-6	-3.135	13.046

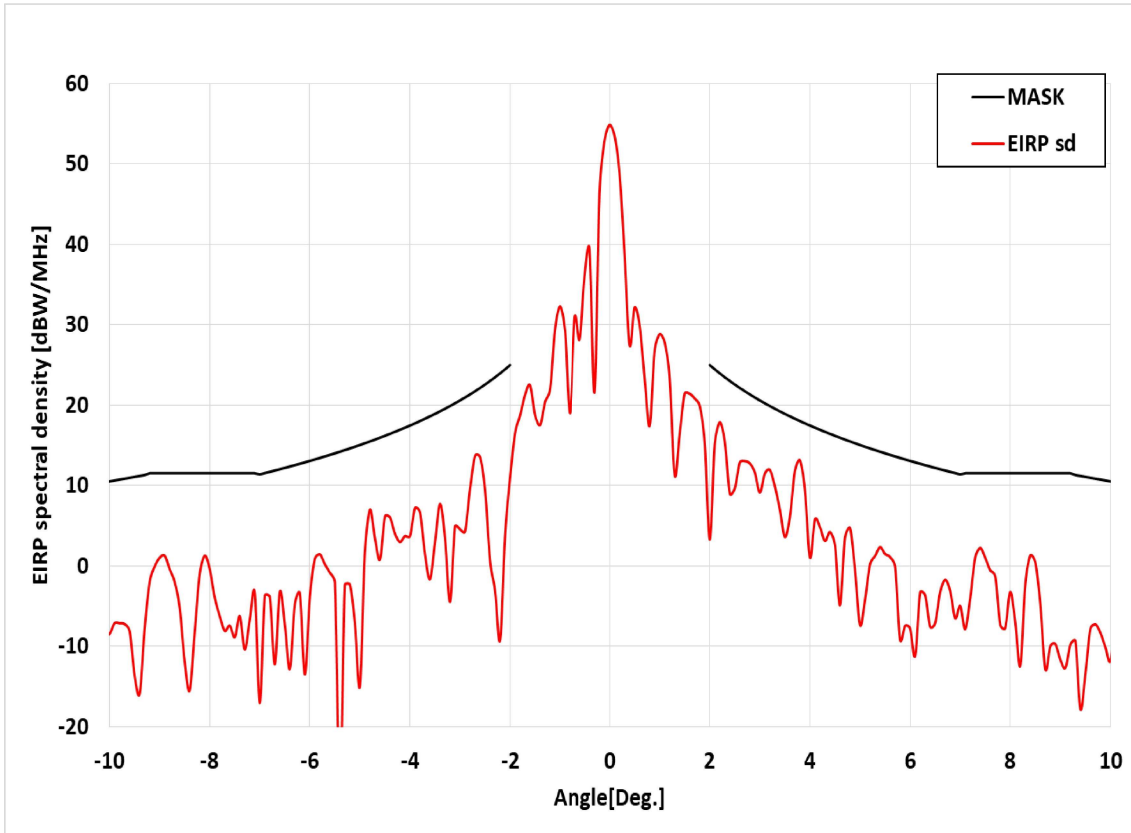
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-5.7	-0.011	13.603
-5.6	-3.032	13.795
-5.5	-15.414	13.991
-5.4	0.116	14.190
-5.3	3.230	14.393
-5.2	2.701	14.600
-5.1	1.536	14.811
-5	-5.108	15.026
-4.9	0.218	15.245
-4.8	5.388	15.469
-4.7	4.879	15.698
-4.6	-5.042	15.931
-4.5	-0.496	16.170
-4.4	3.077	16.414
-4.3	-2.743	16.663
-4.2	-5.381	16.919
-4.1	-3.492	17.180
-4	-0.845	17.449
-3.9	2.967	17.723
-3.8	0.959	18.005
-3.7	-2.947	18.295
-3.6	0.829	18.592
-3.5	4.720	18.898
-3.4	8.209	19.213
-3.3	11.247	19.537
-3.2	12.847	19.871
-3.1	13.240	20.216
-3	12.243	20.572
-2.9	11.308	20.940
-2.8	12.695	21.321
-2.7	13.946	21.716
-2.6	14.142	22.126
-2.5	15.207	22.551
-2.4	16.819	22.995
-2.3	16.922	23.457
-2.2	13.757	23.939
-2.1	12.084	24.445
-2	17.732	24.974
-1.9	17.681	

-1.8	14.249	
-1.7	11.599	
-1.6	5.249	
-1.5	-2.842	
-1.4	12.304	
-1.3	20.115	
-1.2	22.621	
-1.1	23.466	
-1	25.245	
-0.9	27.804	
-0.8	31.792	
-0.7	32.993	
-0.6	29.040	
-0.5	24.615	
-0.4	14.662	
-0.3	39.206	
-0.2	48.035	
-0.1	52.288	
-1.00044E-11	53.760	
0.1	52.768	
0.2	49.436	
0.3	43.127	
0.4	33.411	
0.5	23.469	
0.6	27.664	
0.7	29.021	
0.8	24.830	
0.9	7.805	
1	18.716	
1.1	21.338	
1.2	18.925	
1.3	10.386	
1.4	7.929	
1.5	2.424	
1.6	9.220	
1.7	14.161	
1.8	12.526	
1.9	6.699	
2	5.384	24.974
2.1	11.065	24.445
2.2	14.014	23.939

2.3	15.118	23.457
2.4	15.153	22.995
2.5	13.717	22.551
2.6	10.315	22.126
2.7	8.416	21.716
2.8	4.705	21.321
2.9	-4.902	20.940
3	-9.911	20.572
3.1	1.449	20.216
3.2	4.764	19.871
3.3	-0.534	19.537
3.4	2.207	19.213
3.5	6.803	18.898
3.6	5.306	18.592
3.7	-10.650	18.295
3.8	4.512	18.005
3.9	9.628	17.723
4	9.827	17.449
4.1	8.146	17.180
4.2	6.967	16.919
4.3	5.814	16.663
4.4	5.287	16.414
4.5	8.135	16.170
4.6	8.861	15.931
4.7	6.689	15.698
4.8	1.875	15.469
4.9	0.296	15.245
5	3.915	15.026
5.1	5.897	14.811
5.2	6.883	14.600
5.3	5.388	14.393
5.4	2.118	14.190
5.5	3.253	13.991
5.6	4.801	13.795
5.7	3.711	13.603
5.8	1.091	13.414
5.9	-1.422	13.229
6	-4.915	13.046
6.1	-16.504	12.867
6.2	-8.653	12.690
6.3	-6.115	12.516

6.4	-16.518	12.346
6.5	-7.394	12.177
6.6	-2.697	12.011
6.7	-1.161	11.848
6.8	0.286	11.687
6.9	-0.339	11.529
7	-3.854	11.373
7.1	-10.954	11.500
7.2	-19.426	11.500
7.3	-5.720	11.500
7.4	-1.997	11.500
7.5	-0.763	11.500
7.6	0.176	11.500
7.7	1.466	11.500
7.8	2.990	11.500
7.9	3.849	11.500
8	2.822	11.500
8.1	0.942	11.500
8.2	-0.831	11.500
8.3	-1.588	11.500
8.4	1.128	11.500
8.5	2.390	11.500
8.6	2.468	11.500
8.7	-0.200	11.500
8.8	-2.748	11.500
8.9	-5.088	11.500
9	-8.968	11.500
9.1	-17.458	11.500
9.2	-7.353	11.500
9.3	-7.055	11.288
9.4	-7.196	11.172
9.5	-5.456	11.057
9.6	-3.121	10.943
9.7	0.943	10.831
9.8	2.073	10.719
9.9	1.459	10.609
10	-0.760	10.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-8.455	10.500
-9.9	-7.145	10.609
-9.8	-7.154	10.719
-9.7	-7.254	10.831
-9.6	-8.134	10.943
-9.5	-13.707	11.057
-9.4	-15.921	11.172
-9.3	-7.849	11.288
-9.2	-2.011	11.500
-9.1	-0.090	11.500
-9	0.997	11.500
-8.9	1.243	11.500
-8.8	-0.447	11.500
-8.7	-2.032	11.500
-8.6	-5.214	11.500
-8.5	-11.924	11.500
-8.4	-15.514	11.500
-8.3	-8.277	11.500
-8.2	-1.008	11.500
-8.1	1.254	11.500
-8	-0.440	11.500
-7.9	-3.960	11.500
-7.8	-6.263	11.500
-7.7	-8.099	11.500
-7.6	-7.457	11.500
-7.5	-8.886	11.500
-7.4	-6.266	11.500
-7.3	-10.416	11.500
-7.2	-6.663	11.500
-7.1	-3.382	11.500
-7	-17.071	11.373
-6.9	-3.739	11.529
-6.8	-3.870	11.687
-6.7	-12.245	11.848
-6.6	-3.232	12.011
-6.5	-7.329	12.177
-6.4	-12.836	12.346
-6.3	-4.813	12.516
-6.2	-3.466	12.690
-6.1	-13.509	12.867
-6	-3.885	13.046

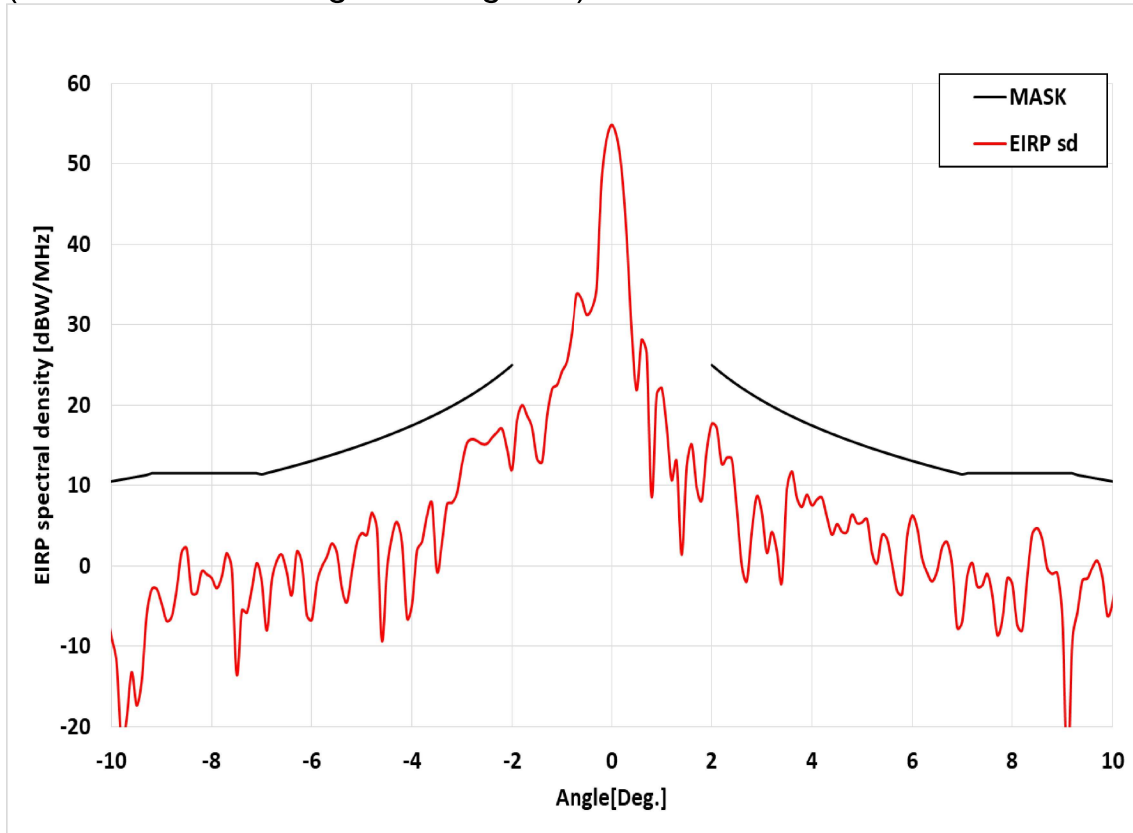
-5.9	0.874	13.229
-5.8	1.413	13.414
-5.7	0.185	13.603
-5.6	-0.871	13.795
-5.5	-2.113	13.991
-5.4	-28.569	14.190
-5.3	-2.405	14.393
-5.2	-2.308	14.600
-5.1	-7.137	14.811
-5	-14.973	15.026
-4.9	1.655	15.245
-4.8	6.991	15.469
-4.7	3.414	15.698
-4.6	0.783	15.931
-4.5	6.121	16.170
-4.4	6.032	16.414
-4.3	3.995	16.663
-4.2	2.959	16.919
-4.1	3.701	17.180
-4	3.700	17.449
-3.9	7.178	17.723
-3.8	6.648	18.005
-3.7	1.466	18.295
-3.6	-1.654	18.592
-3.5	2.867	18.898
-3.4	7.688	19.213
-3.3	3.390	19.537
-3.2	-4.475	19.871
-3.1	4.885	20.216
-3	4.535	20.572
-2.9	4.266	20.940
-2.8	9.579	21.321
-2.7	13.670	21.716
-2.6	13.514	22.126
-2.5	9.406	22.551
-2.4	0.629	22.995
-2.3	-3.116	23.457
-2.2	-9.271	23.939
-2.1	3.750	24.445
-2	10.968	24.974
-1.9	16.501	

-1.8	18.717	
-1.7	21.272	
-1.6	22.438	
-1.5	18.704	
-1.4	17.527	
-1.3	20.407	
-1.2	21.987	
-1.1	29.545	
-1	32.270	
-0.9	29.157	
-0.8	18.997	
-0.7	30.900	
-0.6	28.165	
-0.5	36.014	
-0.4	39.346	
-0.3	21.595	
-0.2	46.357	
-0.1	52.884	
-1.00044E-11	54.860	
0.1	53.508	
0.2	48.717	
0.3	38.676	
0.4	27.458	
0.5	32.142	
0.6	29.900	
0.7	23.268	
0.8	17.415	
0.9	26.811	
1	28.821	
1.1	27.805	
1.2	23.410	
1.3	11.265	
1.4	16.435	
1.5	21.428	
1.6	21.399	
1.7	20.820	
1.8	19.897	
1.9	15.311	
2	3.267	24.974
2.1	15.198	24.445
2.2	17.857	23.939

2.3	15.474	23.457
2.4	8.991	22.995
2.5	9.619	22.551
2.6	12.825	22.126
2.7	13.018	21.716
2.8	12.723	21.321
2.9	11.607	20.940
3	9.126	20.572
3.1	11.454	20.216
3.2	11.922	19.871
3.3	9.888	19.537
3.4	6.986	19.213
3.5	3.574	18.898
3.6	6.074	18.592
3.7	11.769	18.295
3.8	13.135	18.005
3.9	9.432	17.723
4	1.024	17.449
4.1	5.746	17.180
4.2	4.807	16.919
4.3	3.090	16.663
4.4	4.192	16.414
4.5	2.600	16.170
4.6	-4.923	15.931
4.7	3.514	15.698
4.8	4.705	15.469
4.9	-0.497	15.245
5	-7.377	15.026
5.1	-4.262	14.811
5.2	0.172	14.600
5.3	1.195	14.393
5.4	2.299	14.190
5.5	1.474	13.991
5.6	1.088	13.795
5.7	-0.093	13.603
5.8	-9.186	13.414
5.9	-7.482	13.229
6	-7.798	13.046
6.1	-11.218	12.867
6.2	-3.326	12.690
6.3	-3.634	12.516

6.4	-7.569	12.346
6.5	-7.160	12.177
6.6	-3.304	12.011
6.7	-1.752	11.848
6.8	-3.145	11.687
6.9	-6.522	11.529
7	-5.001	11.373
7.1	-7.885	11.500
7.2	-4.033	11.500
7.3	1.025	11.500
7.4	2.210	11.500
7.5	0.975	11.500
7.6	-0.579	11.500
7.7	-1.300	11.500
7.8	-7.375	11.500
7.9	-7.754	11.500
8	-3.283	11.500
8.1	-7.037	11.500
8.2	-12.469	11.500
8.3	-2.261	11.500
8.4	1.287	11.500
8.5	0.426	11.500
8.6	-4.761	11.500
8.7	-12.875	11.500
8.8	-10.003	11.500
8.9	-9.734	11.500
9	-11.711	11.500
9.1	-12.701	11.500
9.2	-9.798	11.500
9.3	-9.364	11.288
9.4	-17.825	11.172
9.5	-13.406	11.057
9.6	-7.819	10.943
9.7	-7.288	10.831
9.8	-8.352	10.719
9.9	-10.154	10.609
10	-11.810	10.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-8.967	10.500
-9.9	-12.039	10.609
-9.8	-22.156	10.719
-9.7	-19.092	10.831
-9.6	-13.256	10.943
-9.5	-17.371	11.057
-9.4	-14.401	11.172
-9.3	-6.189	11.288
-9.2	-2.944	11.500
-9.1	-2.867	11.500
-9	-4.715	11.500
-8.9	-6.871	11.500
-8.8	-6.339	11.500
-8.7	-2.944	11.500
-8.6	1.688	11.500
-8.5	2.148	11.500
-8.4	-3.347	11.500
-8.3	-3.421	11.500
-8.2	-0.725	11.500
-8.1	-1.061	11.500
-8	-1.549	11.500
-7.9	-2.779	11.500
-7.8	-1.393	11.500
-7.7	1.571	11.500
-7.6	-0.349	11.500
-7.5	-13.564	11.500
-7.4	-5.588	11.500
-7.3	-5.870	11.500
-7.2	-2.923	11.500
-7.1	0.324	11.500
-7	-1.944	11.373
-6.9	-8.069	11.529
-6.8	-1.828	11.687
-6.7	0.583	11.848
-6.6	1.382	12.011
-6.5	-0.835	12.177
-6.4	-3.645	12.346
-6.3	1.734	12.516
-6.2	0.303	12.690
-6.1	-6.160	12.867
-6	-6.727	13.046

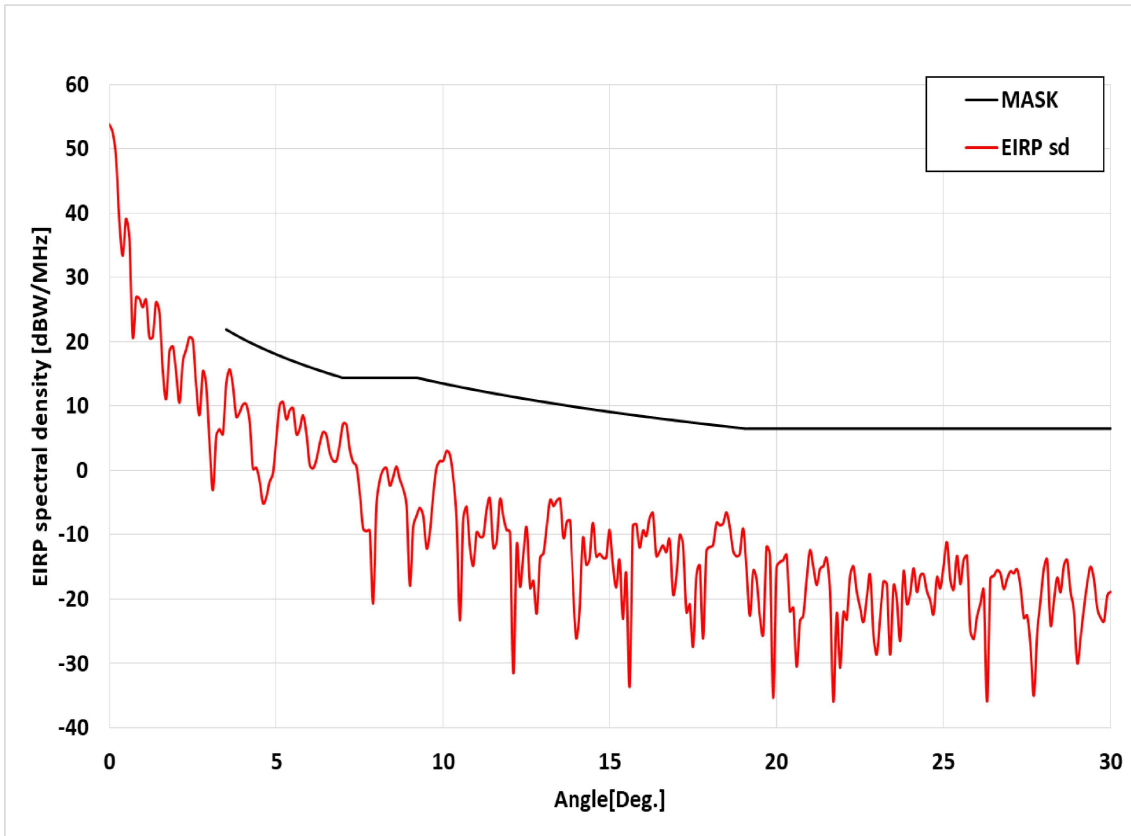
-5.9	-2.150	13.229
-5.8	-0.117	13.414
-5.7	1.093	13.603
-5.6	2.766	13.795
-5.5	1.612	13.991
-5.4	-2.784	14.190
-5.3	-4.536	14.393
-5.2	-0.792	14.600
-5.1	2.874	14.811
-5	4.056	15.026
-4.9	3.853	15.245
-4.8	6.606	15.469
-4.7	4.629	15.698
-4.6	-9.329	15.931
-4.5	-0.604	16.170
-4.4	3.571	16.414
-4.3	5.450	16.663
-4.2	2.916	16.919
-4.1	-6.458	17.180
-4	-4.831	17.449
-3.9	1.853	17.723
-3.8	2.967	18.005
-3.7	6.184	18.295
-3.6	7.766	18.592
-3.5	-0.724	18.898
-3.4	2.913	19.213
-3.3	7.644	19.537
-3.2	7.840	19.871
-3.1	9.039	20.216
-3	12.656	20.572
-2.9	15.267	20.940
-2.8	15.747	21.321
-2.7	15.533	21.716
-2.6	15.152	22.126
-2.5	15.195	22.551
-2.4	15.946	22.995
-2.3	16.606	23.457
-2.2	17.018	23.939
-2.1	14.535	24.445
-2	11.976	24.974
-1.9	18.142	

-1.8	19.975	
-1.7	18.680	
-1.6	17.156	
-1.5	13.265	
-1.4	12.958	
-1.3	18.667	
-1.2	21.977	
-1.1	22.505	
-1	24.214	
-0.9	25.494	
-0.8	29.057	
-0.7	33.760	
-0.6	33.181	
-0.5	31.245	
-0.4	31.919	
-0.3	34.408	
-0.2	47.703	
-0.1	53.012	
-1.00044E-11	54.860	
0.1	53.484	
0.2	49.295	
0.3	41.087	
0.4	29.410	
0.5	21.853	
0.6	28.141	
0.7	26.411	
0.8	8.569	
0.9	21.273	
1	22.127	
1.1	17.330	
1.2	10.678	
1.3	12.955	
1.4	1.375	
1.5	12.337	
1.6	15.098	
1.7	9.745	
1.8	8.136	
1.9	14.314	
2	17.635	24.974
2.1	17.132	24.445
2.2	12.700	23.939

2.3	13.433	23.457
2.4	13.270	22.995
2.5	7.144	22.551
2.6	0.047	22.126
2.7	-1.926	21.716
2.8	4.293	21.321
2.9	8.649	20.940
3	6.662	20.572
3.1	1.633	20.216
3.2	4.194	19.871
3.3	1.893	19.537
3.4	-2.057	19.213
3.5	9.519	18.898
3.6	11.720	18.592
3.7	8.467	18.295
3.8	7.325	18.005
3.9	8.832	17.723
4	7.516	17.449
4.1	8.222	17.180
4.2	8.460	16.919
4.3	6.053	16.663
4.4	3.880	16.414
4.5	5.168	16.170
4.6	4.228	15.931
4.7	4.229	15.698
4.8	6.366	15.469
4.9	5.308	15.245
5	5.390	15.026
5.1	5.777	14.811
5.2	1.624	14.600
5.3	0.300	14.393
5.4	3.788	14.190
5.5	3.333	13.991
5.6	0.209	13.795
5.7	-3.118	13.603
5.8	-3.520	13.414
5.9	3.550	13.229
6	6.223	13.046
6.1	4.734	12.867
6.2	0.926	12.690
6.3	-0.852	12.516

6.4	-1.944	12.346
6.5	-0.660	12.177
6.6	2.264	12.011
6.7	2.945	11.848
6.8	0.004	11.687
6.9	-7.681	11.529
7	-7.000	11.373
7.1	-1.325	11.500
7.2	0.359	11.500
7.3	-2.527	11.500
7.4	-2.446	11.500
7.5	-1.022	11.500
7.6	-3.625	11.500
7.7	-8.603	11.500
7.8	-6.750	11.500
7.9	-1.588	11.500
8	-2.253	11.500
8.1	-7.365	11.500
8.2	-7.983	11.500
8.3	-1.359	11.500
8.4	3.954	11.500
8.5	4.693	11.500
8.6	3.241	11.500
8.7	-0.335	11.500
8.8	-1.005	11.500
8.9	-0.937	11.500
9	-6.377	11.500
9.1	-25.938	11.500
9.2	-9.358	11.500
9.3	-5.813	11.288
9.4	-1.857	11.172
9.5	-1.586	11.057
9.6	-0.214	10.943
9.7	0.591	10.831
9.8	-1.448	10.719
9.9	-6.207	10.609
10	-4.687	10.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	53.760	
0.1	52.520	
0.2	48.590	
0.3	38.739	
0.4	33.381	
0.5	39.085	
0.6	36.025	
0.7	20.797	
0.8	26.858	
0.9	26.689	
1	25.384	
1.1	26.489	
1.2	20.655	
1.3	20.797	
1.4	26.105	
1.5	24.476	
1.6	15.591	
1.7	11.137	
1.8	18.514	
1.9	19.256	
2	15.189	
2.1	10.558	
2.2	16.861	
2.3	18.780	
2.4	20.715	
2.5	20.219	
2.6	13.191	
2.7	8.619	
2.8	15.411	
2.9	13.300	
3	4.132	
3.1	-3.074	
3.2	5.374	
3.3	6.384	
3.4	5.691	
3.5	13.427	21.898
3.6	15.678	21.592
3.7	13.156	21.295
3.8	8.379	21.005
3.9	9.007	20.723
4	10.228	20.449

4.1	10.282	20.180
4.2	7.662	19.919
4.3	0.256	19.663
4.4	0.436	19.414
4.5	-1.668	19.170
4.6	-5.077	18.931
4.7	-4.165	18.698
4.8	-1.780	18.469
4.9	-0.383	18.245
5	4.949	18.026
5.1	10.145	17.811
5.2	10.624	17.600
5.3	7.951	17.393
5.4	9.340	17.190
5.5	9.638	16.991
5.6	5.673	16.795
5.7	6.454	16.603
5.8	8.536	16.414
5.9	5.769	16.229
6	0.822	16.046
6.1	0.307	15.867
6.2	1.678	15.690
6.3	4.140	15.516
6.4	5.961	15.346
6.5	5.500	15.177
6.6	2.760	15.011
6.7	1.521	14.848
6.8	1.514	14.687
6.9	4.102	14.529
7	7.258	14.373
7.1	7.072	14.400
7.2	3.230	14.400
7.3	1.285	14.400
7.4	0.629	14.400
7.5	-3.566	14.400
7.6	-9.014	14.400
7.7	-9.440	14.400
7.8	-9.392	14.400
7.9	-20.640	14.400
8	-5.430	14.400
8.1	-1.472	14.400

8.2	0.093	14.400
8.3	0.316	14.400
8.4	-2.335	14.400
8.5	-0.987	14.400
8.6	0.569	14.400
8.7	-1.413	14.400
8.8	-2.871	14.400
8.9	-5.379	14.400
9	-17.884	14.400
9.1	-8.793	14.400
9.2	-7.043	14.400
9.3	-5.844	14.288
9.4	-7.130	14.172
9.5	-12.103	14.057
9.6	-9.462	13.943
9.7	-3.789	13.831
9.8	0.464	13.719
9.9	1.437	13.609
10	1.520	13.500
10.1	3.045	13.392
10.2	2.428	13.285
10.3	-1.219	13.179
10.4	-7.794	13.074
10.5	-23.296	12.970
10.6	-7.437	12.867
10.7	-5.665	12.765
10.8	-11.990	12.664
10.9	-14.783	12.564
11	-9.658	12.465
11.1	-10.317	12.367
11.2	-10.211	12.270
11.3	-6.045	12.173
11.4	-4.466	12.077
11.5	-11.967	11.983
11.6	-11.077	11.889
11.7	-4.493	11.795
11.8	-7.209	11.703
11.9	-9.276	11.611
12	-9.585	11.520
12.1	-31.545	11.430
12.2	-11.659	11.341

12.3	-18.093	11.252
12.4	-12.990	11.164
12.5	-8.904	11.077
12.6	-18.219	10.991
12.7	-17.173	10.905
12.8	-22.244	10.820
12.9	-13.624	10.735
13	-12.895	10.651
13.1	-8.590	10.568
13.2	-4.634	10.486
13.3	-5.531	10.404
13.4	-4.693	10.322
13.5	-4.464	10.242
13.6	-10.465	10.162
13.7	-7.962	10.082
13.8	-7.828	10.003
13.9	-17.738	9.925
14	-26.053	9.847
14.1	-21.931	9.770
14.2	-10.562	9.693
14.3	-14.627	9.617
14.4	-13.833	9.541
14.5	-8.164	9.466
14.6	-13.330	9.391
14.7	-12.965	9.317
14.8	-13.533	9.243
14.9	-13.559	9.170
15	-9.257	9.098
15.1	-14.701	9.026
15.2	-18.180	8.954
15.3	-13.930	8.883
15.4	-23.075	8.812
15.5	-16.052	8.742
15.6	-33.606	8.672
15.7	-8.612	8.603
15.8	-8.341	8.534
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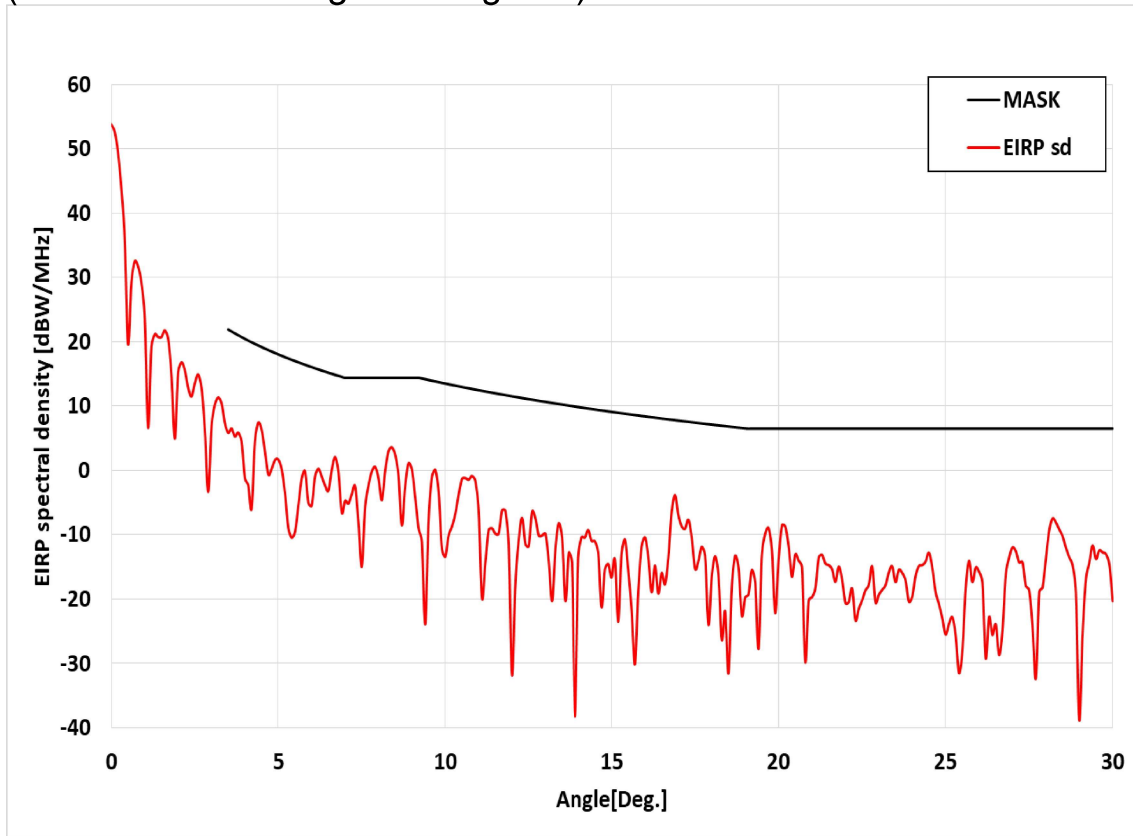
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18	-11.893	7.118
18.1	-11.587	7.058
18.2	-8.173	6.998
18.3	-8.502	6.939
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19	-9.044	6.531
19.1	-15.406	6.474
19.2	-22.598	6.500
19.3	-15.630	6.500
19.4	-16.911	6.500
19.5	-22.739	6.500
19.6	-25.380	6.500
19.7	-11.861	6.500
19.8	-13.109	6.500
19.9	-35.325	6.500
20	-15.067	6.500
20.1	-14.241	6.500
20.2	-13.951	6.500
20.3	-13.167	6.500
20.4	-21.870	6.500

20.5	-21.384	6.500
20.6	-30.474	6.500
20.7	-23.435	6.500
20.8	-22.564	6.500
20.9	-16.872	6.500
21	-12.410	6.500
21.1	-15.011	6.500
21.2	-17.790	6.500
21.3	-15.340	6.500
21.4	-14.872	6.500
21.5	-13.679	6.500
21.6	-19.002	6.500
21.7	-35.951	6.500
21.8	-22.193	6.500
21.9	-30.661	6.500
22	-22.066	6.500
22.1	-23.160	6.500
22.2	-16.386	6.500
22.3	-14.918	6.500
22.4	-18.839	6.500
22.5	-21.317	6.500
22.6	-23.553	6.500
22.7	-19.761	6.500
22.8	-16.306	6.500
22.9	-25.640	6.500
23	-28.598	6.500
23.1	-22.740	6.500
23.2	-17.272	6.500
23.3	-17.698	6.500
23.4	-28.605	6.500
23.5	-18.040	6.500
23.6	-20.095	6.500
23.7	-26.440	6.500
23.8	-15.706	6.500
23.9	-20.700	6.500
24	-19.145	6.500
24.1	-15.226	6.500
24.2	-18.920	6.500
24.3	-16.419	6.500
24.4	-16.160	6.500
24.5	-18.760	6.500

24.6	-20.243	6.500
24.7	-22.327	6.500
24.8	-16.627	6.500
24.9	-18.301	6.500
25	-14.788	6.500
25.1	-11.177	6.500
25.2	-17.009	6.500
25.3	-18.490	6.500
25.4	-13.294	6.500
25.5	-17.657	6.500
25.6	-13.858	6.500
25.7	-13.309	6.500
25.8	-24.982	6.500
25.9	-26.191	6.500
26	-22.763	6.500
26.1	-20.688	6.500
26.2	-18.628	6.500
26.3	-35.898	6.500
26.4	-16.823	6.500
26.5	-16.390	6.500
26.6	-15.530	6.500
26.7	-16.020	6.500
26.8	-18.423	6.500
26.9	-16.851	6.500
27	-15.697	6.500
27.1	-16.004	6.500
27.2	-15.385	6.500
27.3	-18.012	6.500
27.4	-22.917	6.500
27.5	-22.561	6.500
27.6	-27.271	6.500
27.7	-35.030	6.500
27.8	-25.343	6.500
27.9	-20.277	6.500
28	-15.225	6.500
28.1	-13.900	6.500
28.2	-23.980	6.500
28.3	-20.359	6.500
28.4	-16.668	6.500
28.5	-18.924	6.500
28.6	-14.782	6.500

28.7	-13.948	6.500
28.8	-18.856	6.500
28.9	-21.824	6.500
29	-29.910	6.500
29.1	-25.955	6.500
29.2	-21.424	6.500
29.3	-17.459	6.500
29.4	-14.997	6.500
29.5	-17.002	6.500
29.6	-21.462	6.500
29.7	-22.901	6.500
29.8	-23.434	6.500
29.9	-19.423	6.500
30	-18.869	6.500

3.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)
(Maximum skew angle 45 degrees)



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	53.760	
0.1	52.634	
0.2	49.345	
0.3	43.780	
0.4	35.908	
0.5	19.648	
0.6	29.233	
0.7	32.490	
0.8	31.674	
0.9	29.125	
1	23.572	
1.1	6.636	
1.2	19.232	
1.3	21.154	
1.4	20.742	
1.5	20.748	
1.6	21.757	
1.7	20.454	
1.8	14.693	
1.9	4.952	
2	15.283	
2.1	16.794	
2.2	15.545	
2.3	12.817	
2.4	11.492	
2.5	13.553	
2.6	14.899	
2.7	12.825	
2.8	6.263	
2.9	-3.325	
3	6.874	
3.1	10.244	
3.2	11.323	
3.3	10.439	
3.4	7.332	
3.5	5.844	21.898
3.6	6.498	21.592
3.7	5.260	21.295
3.8	5.866	21.005
3.9	4.484	20.723
4	-1.195	20.449

4.1	-2.297	20.180
4.2	-5.959	19.919
4.3	4.569	19.663
4.4	7.426	19.414
4.5	6.328	19.170
4.6	2.945	18.931
4.7	-0.629	18.698
4.8	0.243	18.469
4.9	1.625	18.245
5	1.676	18.026
5.1	0.169	17.811
5.2	-3.587	17.600
5.3	-8.982	17.393
5.4	-10.463	17.190
5.5	-9.544	16.991
5.6	-5.433	16.795
5.7	-1.263	16.603
5.8	-0.151	16.414
5.9	-5.048	16.229
6	-5.456	16.046
6.1	-0.953	15.867
6.2	0.258	15.690
6.3	-0.946	15.516
6.4	-2.360	15.346
6.5	-3.153	15.177
6.6	0.079	15.011
6.7	2.070	14.848
6.8	-0.286	14.687
6.9	-6.553	14.529
7	-4.733	14.373
7.1	-5.162	14.400
7.2	-3.693	14.400
7.3	-2.440	14.400
7.4	-8.132	14.400
7.5	-14.967	14.400
7.6	-5.740	14.400
7.7	-2.376	14.400
7.8	-0.189	14.400
7.9	0.538	14.400
8	-1.232	14.400
8.1	-4.628	14.400

8.2	-0.114	14.400
8.3	3.021	14.400
8.4	3.570	14.400
8.5	2.451	14.400
8.6	-0.873	14.400
8.7	-8.522	14.400
8.8	-2.438	14.400
8.9	1.089	14.400
9	0.147	14.400
9.1	-4.190	14.400
9.2	-9.076	14.400
9.3	-11.151	14.288
9.4	-23.903	14.172
9.5	-7.880	14.057
9.6	-0.991	13.943
9.7	0.082	13.831
9.8	-3.291	13.719
9.9	-12.215	13.609
10	-13.411	13.500
10.1	-10.124	13.392
10.2	-8.727	13.285
10.3	-6.786	13.179
10.4	-3.797	13.074
10.5	-1.337	12.970
10.6	-1.190	12.867
10.7	-1.446	12.765
10.8	-0.881	12.664
10.9	-1.616	12.564
11	-6.277	12.465
11.1	-19.825	12.367
11.2	-14.430	12.270
11.3	-9.262	12.173
11.4	-8.985	12.077
11.5	-9.830	11.983
11.6	-9.835	11.889
11.7	-6.213	11.795
11.8	-6.298	11.703
11.9	-11.684	11.611
12	-31.812	11.520
12.1	-17.754	11.430
12.2	-10.832	11.341

12.3	-7.395	11.252
12.4	-11.444	11.164
12.5	-11.753	11.077
12.6	-6.438	10.991
12.7	-7.434	10.905
12.8	-10.129	10.820
12.9	-10.119	10.735
13	-9.880	10.651
13.1	-14.249	10.568
13.2	-20.289	10.486
13.3	-12.138	10.404
13.4	-8.201	10.322
13.5	-10.566	10.242
13.6	-20.313	10.162
13.7	-12.766	10.082
13.8	-14.303	10.003
13.9	-38.226	9.925
14	-13.589	9.847
14.1	-10.405	9.770
14.2	-10.456	9.693
14.3	-9.292	9.617
14.4	-10.940	9.541
14.5	-11.027	9.466
14.6	-12.833	9.391
14.7	-21.259	9.317
14.8	-15.390	9.243
14.9	-14.545	9.170
15	-16.656	9.098
15.1	-13.863	9.026
15.2	-23.502	8.954
15.3	-12.974	8.883
15.4	-10.730	8.812
15.5	-15.567	8.742
15.6	-21.792	8.672
15.7	-30.154	8.603
15.8	-18.715	8.534
15.9	-11.854	8.465
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16.2	-18.921	8.262
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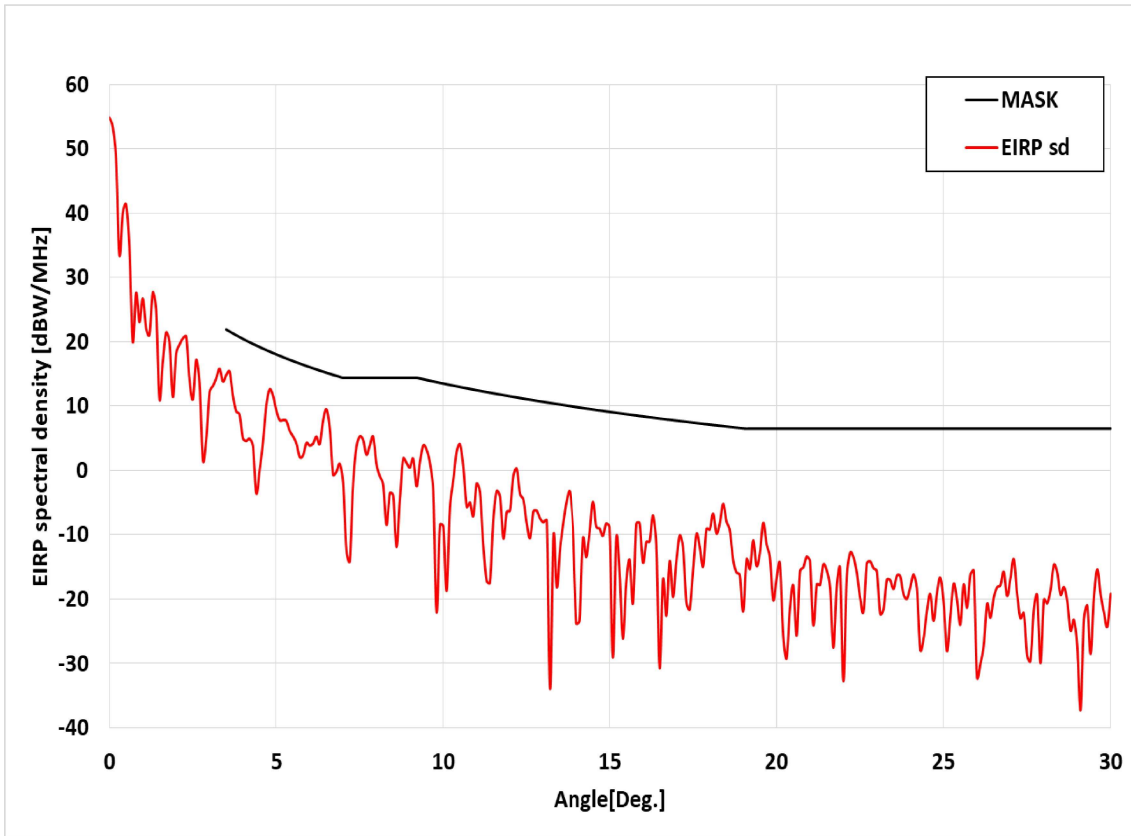
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17.4	-10.499	7.486
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17.8	-13.214	7.239
17.9	-23.991	7.179
18	-16.425	7.118
18.1	-13.374	7.058
18.2	-16.311	6.998
18.3	-26.294	6.939
18.4	-21.903	6.880
18.5	-31.536	6.821
18.6	-18.007	6.762
18.7	-13.264	6.704
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19	-19.736	6.531
19.1	-19.254	6.474
19.2	-15.487	6.500
19.3	-17.381	6.500
19.4	-27.694	6.500
19.5	-13.112	6.500
19.6	-9.843	6.500
19.7	-8.947	6.500
19.8	-12.355	6.500
19.9	-22.173	6.500
20	-13.955	6.500
20.1	-8.552	6.500
20.2	-8.716	6.500
20.3	-11.791	6.500
20.4	-16.500	6.500

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21.7	-17.307	6.500
21.8	-14.969	6.500
21.9	-16.959	6.500
22	-20.588	6.500
22.1	-20.463	6.500
22.2	-18.355	6.500
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22.4	-21.503	6.500
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22.6	-18.641	6.500
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24	-19.650	6.500
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24.2	-14.875	6.500
24.3	-14.717	6.500
24.4	-14.169	6.500
24.5	-12.813	6.500

24.6	-15.127	6.500
24.7	-18.871	6.500
24.8	-20.785	6.500
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25.1	-23.889	6.500
25.2	-22.831	6.500
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27.1	-12.550	6.500
27.2	-14.300	6.500
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27.8	-18.886	6.500
27.9	-18.253	6.500
28	-13.741	6.500
28.1	-9.330	6.500
28.2	-7.481	6.500
28.3	-8.073	6.500
28.4	-9.171	6.500
28.5	-10.199	6.500
28.6	-12.008	6.500

28.7	-13.490	6.500
28.8	-14.733	6.500
28.9	-19.008	6.500
29	-38.798	6.500
29.1	-25.466	6.500
29.2	-16.895	6.500
29.3	-14.367	6.500
29.4	-11.677	6.500
29.5	-13.763	6.500
29.6	-12.424	6.500
29.7	-12.747	6.500
29.8	-13.020	6.500
29.9	-14.579	6.500
30	-20.324	6.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	54.860	
0.1	53.431	
0.2	48.479	
0.3	33.513	
0.4	39.954	
0.5	41.337	
0.6	34.630	
0.7	20.014	
0.8	27.585	
0.9	23.055	
1	26.707	
1.1	22.080	
1.2	21.096	
1.3	27.670	
1.4	25.047	
1.5	11.095	
1.6	16.859	
1.7	21.443	
1.8	19.967	
1.9	11.432	
2	18.150	
2.1	19.567	
2.2	20.511	
2.3	20.808	
2.4	14.068	
2.5	11.054	
2.6	17.192	
2.7	13.581	
2.8	1.632	
2.9	4.790	
3	12.180	
3.1	13.099	
3.2	14.321	
3.3	15.783	
3.4	13.823	
3.5	14.804	21.898
3.6	15.346	21.592
3.7	11.612	21.295
3.8	9.174	21.005
3.9	8.675	20.723
4	4.997	20.449

4.1	4.574	20.180
4.2	4.907	19.919
4.3	3.812	19.663
4.4	-3.539	19.414
4.5	0.054	19.170
4.6	4.356	18.931
4.7	10.106	18.698
4.8	12.581	18.469
4.9	11.625	18.245
5	9.313	18.026
5.1	7.818	17.811
5.2	7.825	17.600
5.3	7.684	17.393
5.4	6.160	17.190
5.5	5.271	16.991
5.6	4.189	16.795
5.7	2.098	16.603
5.8	2.339	16.414
5.9	4.236	16.229
6	3.852	16.046
6.1	4.167	15.867
6.2	5.259	15.690
6.3	4.111	15.516
6.4	7.734	15.346
6.5	9.509	15.177
6.6	6.553	15.011
6.7	-0.656	14.848
6.8	-0.193	14.687
6.9	1.015	14.529
7	-1.909	14.373
7.1	-12.467	14.400
7.2	-14.069	14.400
7.3	-2.136	14.400
7.4	3.688	14.400
7.5	5.296	14.400
7.6	4.758	14.400
7.7	2.434	14.400
7.8	3.829	14.400
7.9	5.227	14.400
8	0.980	14.400
8.1	-0.929	14.400

8.2	-2.221	14.400
8.3	-8.454	14.400
8.4	-3.553	14.400
8.5	-3.872	14.400
8.6	-11.888	14.400
8.7	-4.576	14.400
8.8	1.821	14.400
8.9	1.163	14.400
9	0.449	14.400
9.1	1.794	14.400
9.2	-2.478	14.400
9.3	1.285	14.288
9.4	3.863	14.172
9.5	3.206	14.057
9.6	1.146	13.943
9.7	-3.291	13.831
9.8	-22.025	13.719
9.9	-8.455	13.609
10	-8.674	13.500
10.1	-18.713	13.392
10.2	-5.860	13.285
10.3	-1.529	13.179
10.4	2.888	13.074
10.5	4.053	12.970
10.6	0.552	12.867
10.7	-5.614	12.765
10.8	-5.000	12.664
10.9	-7.077	12.564
11	-2.075	12.465
11.1	-3.418	12.367
11.2	-11.707	12.270
11.3	-17.191	12.173
11.4	-17.452	12.077
11.5	-7.576	11.983
11.6	-3.200	11.889
11.7	-4.103	11.795
11.8	-10.577	11.703
11.9	-6.469	11.611
12	-6.218	11.520
12.1	-0.846	11.430
12.2	0.279	11.341

12.3	-3.643	11.252
12.4	-4.565	11.164
12.5	-8.235	11.077
12.6	-10.507	10.991
12.7	-6.395	10.905
12.8	-6.283	10.820
12.9	-7.481	10.735
13	-8.051	10.651
13.1	-7.781	10.568
13.2	-33.951	10.486
13.3	-10.141	10.404
13.4	-18.187	10.322
13.5	-12.118	10.242
13.6	-7.975	10.162
13.7	-4.712	10.082
13.8	-3.386	10.003
13.9	-9.396	9.925
14	-23.723	9.847
14.1	-23.368	9.770
14.2	-10.655	9.693
14.3	-13.469	9.617
14.4	-9.694	9.541
14.5	-4.911	9.466
14.6	-8.731	9.391
14.7	-9.026	9.317
14.8	-10.160	9.243
14.9	-8.241	9.170
15	-8.825	9.098
15.1	-29.051	9.026
15.2	-10.598	8.954
15.3	-15.835	8.883
15.4	-26.134	8.812
15.5	-17.386	8.742
15.6	-13.899	8.672
15.7	-20.639	8.603
15.8	-8.283	8.534
15.9	-8.176	8.465
16	-14.305	8.397
16.1	-11.130	8.329
16.2	-11.005	8.262
16.3	-6.982	8.195

16.4	-11.598	8.129
16.5	-30.699	8.063
16.6	-16.933	7.997
16.7	-22.594	7.932
16.8	-14.113	7.867
16.9	-19.678	7.803
17	-14.111	7.739
17.1	-10.095	7.675
17.2	-12.006	7.612
17.3	-20.538	7.549
17.4	-21.613	7.486
17.5	-15.448	7.424
17.6	-9.885	7.362
17.7	-11.936	7.301
17.8	-14.932	7.239
17.9	-9.117	7.179
18	-9.192	7.118
18.1	-6.732	7.058
18.2	-9.810	6.998
18.3	-8.206	6.939
18.4	-5.204	6.880
18.5	-7.927	6.821
18.6	-9.349	6.762
18.7	-13.950	6.704
18.8	-15.882	6.646
18.9	-16.281	6.588
19	-21.904	6.531
19.1	-13.880	6.474
19.2	-15.314	6.500
19.3	-10.864	6.500
19.4	-14.845	6.500
19.5	-12.809	6.500
19.6	-8.167	6.500
19.7	-11.460	6.500
19.8	-13.558	6.500
19.9	-20.164	6.500
20	-16.807	6.500
20.1	-14.505	6.500
20.2	-25.756	6.500
20.3	-29.179	6.500
20.4	-21.456	6.500

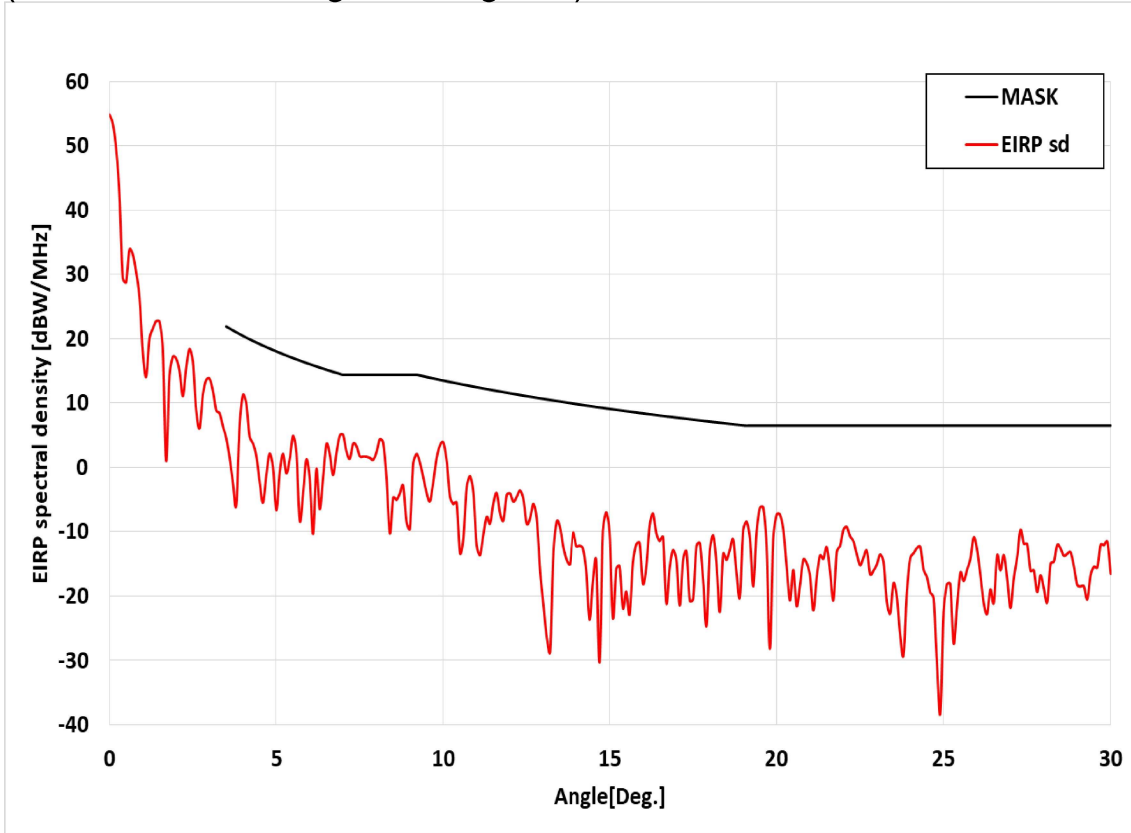
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21	-14.085	6.500
21.1	-24.053	6.500
21.2	-17.757	6.500
21.3	-17.785	6.500
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22	-32.727	6.500
22.1	-16.497	6.500
22.2	-12.830	6.500
22.3	-13.487	6.500
22.4	-15.871	6.500
22.5	-19.789	6.500
22.6	-21.928	6.500
22.7	-14.455	6.500
22.8	-14.135	6.500
22.9	-15.218	6.500
23	-15.678	6.500
23.1	-22.264	6.500
23.2	-21.610	6.500
23.3	-16.997	6.500
23.4	-17.033	6.500
23.5	-18.394	6.500
23.6	-16.382	6.500
23.7	-16.436	6.500
23.8	-19.252	6.500
23.9	-19.956	6.500
24	-18.195	6.500
24.1	-16.222	6.500
24.2	-18.345	6.500
24.3	-27.831	6.500
24.4	-26.119	6.500
24.5	-21.850	6.500

24.6	-19.217	6.500
24.7	-23.359	6.500
24.8	-19.075	6.500
24.9	-16.676	6.500
25	-20.564	6.500
25.1	-28.076	6.500
25.2	-22.723	6.500
25.3	-17.633	6.500
25.4	-20.145	6.500
25.5	-23.970	6.500
25.6	-17.737	6.500
25.7	-21.325	6.500
25.8	-16.217	6.500
25.9	-15.626	6.500
26	-32.119	6.500
26.1	-30.029	6.500
26.2	-27.237	6.500
26.3	-20.775	6.500
26.4	-22.880	6.500
26.5	-19.737	6.500
26.6	-18.170	6.500
26.7	-17.821	6.500
26.8	-15.746	6.500
26.9	-19.500	6.500
27	-16.744	6.500
27.1	-13.798	6.500
27.2	-19.212	6.500
27.3	-23.008	6.500
27.4	-22.208	6.500
27.5	-28.757	6.500
27.6	-29.579	6.500
27.7	-21.648	6.500
27.8	-19.473	6.500
27.9	-29.917	6.500
28	-20.117	6.500
28.1	-20.660	6.500
28.2	-18.572	6.500
28.3	-14.678	6.500
28.4	-15.875	6.500
28.5	-19.305	6.500
28.6	-18.135	6.500

28.7	-20.295	6.500
28.8	-24.873	6.500
28.9	-23.241	6.500
29	-27.337	6.500
29.1	-37.267	6.500
29.2	-23.056	6.500
29.3	-20.986	6.500
29.4	-28.495	6.500
29.5	-19.458	6.500
29.6	-15.387	6.500
29.7	-19.343	6.500
29.8	-22.113	6.500
29.9	-24.277	6.500
30	-19.181	6.500

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

(Maximum skew angle 45 degrees)



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
0	54.860	
0.1	53.507	
0.2	49.636	
0.3	42.533	
0.4	29.451	
0.5	28.727	
0.6	33.834	
0.7	33.147	
0.8	30.360	
0.9	26.430	
1	17.968	
1.1	14.079	
1.2	20.013	
1.3	21.557	
1.4	22.718	
1.5	22.652	
1.6	18.421	
1.7	1.016	
1.8	14.252	
1.9	17.177	
2	16.898	
2.1	14.965	
2.2	11.092	
2.3	15.498	
2.4	18.393	
2.5	16.446	
2.6	8.873	
2.7	6.047	
2.8	11.298	
2.9	13.573	
3	13.787	
3.1	11.910	
3.2	8.868	
3.3	8.432	
3.4	6.376	
3.5	4.530	21.898
3.6	1.531	21.592
3.7	-2.389	21.295
3.8	-5.864	21.005
3.9	6.405	20.723
4	11.239	20.449

4.1	9.966	20.180
4.2	4.803	19.919
4.3	3.725	19.663
4.4	1.814	19.414
4.5	-2.231	19.170
4.6	-5.487	18.931
4.7	-1.221	18.698
4.8	2.131	18.469
4.9	-0.013	18.245
5	-6.645	18.026
5.1	-0.791	17.811
5.2	2.098	17.600
5.3	-0.886	17.393
5.4	1.271	17.190
5.5	4.894	16.991
5.6	2.386	16.795
5.7	-8.252	16.603
5.8	-4.116	16.414
5.9	1.228	16.229
6	-1.727	16.046
6.1	-10.334	15.867
6.2	-0.257	15.690
6.3	-6.462	15.516
6.4	-1.546	15.346
6.5	3.580	15.177
6.6	2.036	15.011
6.7	-1.178	14.848
6.8	2.273	14.687
6.9	4.924	14.529
7	5.037	14.373
7.1	2.492	14.400
7.2	1.380	14.400
7.3	3.675	14.400
7.4	3.310	14.400
7.5	1.755	14.400
7.6	1.687	14.400
7.7	1.676	14.400
7.8	1.503	14.400
7.9	1.193	14.400
8	2.362	14.400
8.1	4.376	14.400

8.2	3.882	14.400
8.3	-1.674	14.400
8.4	-10.255	14.400
8.5	-4.732	14.400
8.6	-5.039	14.400
8.7	-4.042	14.400
8.8	-2.867	14.400
8.9	-8.462	14.400
9	-9.498	14.400
9.1	0.625	14.400
9.2	2.080	14.400
9.3	0.749	14.288
9.4	-1.558	14.172
9.5	-3.936	14.057
9.6	-5.258	13.943
9.7	-2.248	13.831
9.8	1.427	13.719
9.9	3.412	13.609
10	3.863	13.500
10.1	1.076	13.392
10.2	-4.507	13.285
10.3	-5.691	13.179
10.4	-5.479	13.074
10.5	-13.321	12.970
10.6	-11.136	12.867
10.7	-3.104	12.765
10.8	-1.379	12.664
10.9	-3.879	12.564
11	-12.112	12.465
11.1	-13.632	12.367
11.2	-10.518	12.270
11.3	-7.694	12.173
11.4	-8.734	12.077
11.5	-5.598	11.983
11.6	-3.981	11.889
11.7	-7.132	11.795
11.8	-8.249	11.703
11.9	-4.301	11.611
12	-4.043	11.520
12.1	-5.321	11.430
12.2	-4.569	11.341

12.3	-3.602	11.252
12.4	-4.941	11.164
12.5	-8.734	11.077
12.6	-7.881	10.991
12.7	-5.693	10.905
12.8	-7.961	10.820
12.9	-16.024	10.735
13	-21.463	10.651
13.1	-26.460	10.568
13.2	-28.631	10.486
13.3	-13.119	10.404
13.4	-8.381	10.322
13.5	-9.442	10.242
13.6	-12.468	10.162
13.7	-14.426	10.082
13.8	-15.002	10.003
13.9	-10.207	9.925
14	-12.196	9.847
14.1	-12.190	9.770
14.2	-12.571	9.693
14.3	-16.075	9.617
14.4	-23.660	9.541
14.5	-17.735	9.466
14.6	-14.504	9.391
14.7	-30.282	9.317
14.8	-9.869	9.243
14.9	-6.966	9.170
15	-9.990	9.098
15.1	-23.407	9.026
15.2	-15.801	8.954
15.3	-15.350	8.883
15.4	-21.887	8.812
15.5	-19.319	8.742
15.6	-22.828	8.672
15.7	-14.752	8.603
15.8	-11.966	8.534
15.9	-11.726	8.465
16	-18.063	8.397
16.1	-15.462	8.329
16.2	-9.018	8.262
16.3	-7.173	8.195

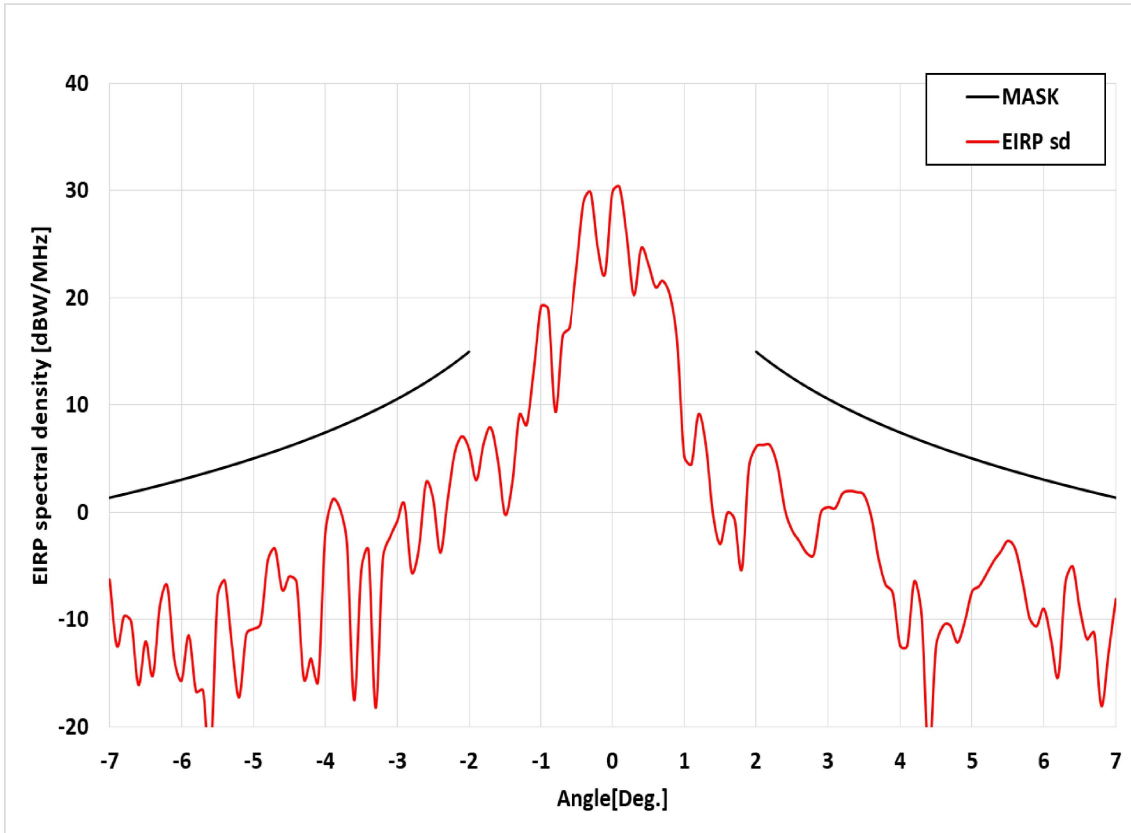
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16.5	-11.434	8.063
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16.9	-12.849	7.803
17	-14.343	7.739
17.1	-21.437	7.675
17.2	-14.455	7.612
17.3	-13.072	7.549
17.4	-20.704	7.486
17.5	-20.456	7.424
17.6	-12.214	7.362
17.7	-11.746	7.301
17.8	-17.417	7.239
17.9	-24.653	7.179
18	-12.930	7.118
18.1	-10.566	7.058
18.2	-14.959	6.998
18.3	-22.472	6.939
18.4	-13.449	6.880
18.5	-14.378	6.821
18.6	-12.781	6.762
18.7	-11.217	6.704
18.8	-16.438	6.646
18.9	-20.172	6.588
19	-9.735	6.531
19.1	-8.412	6.474
19.2	-10.980	6.500
19.3	-18.475	6.500
19.4	-10.094	6.500
19.5	-6.293	6.500
19.6	-6.236	6.500
19.7	-12.108	6.500
19.8	-28.169	6.500
19.9	-11.121	6.500
20	-7.368	6.500
20.1	-7.317	6.500
20.2	-9.596	6.500
20.3	-15.384	6.500
20.4	-20.657	6.500

20.5	-15.948	6.500
20.6	-21.554	6.500
20.7	-18.291	6.500
20.8	-14.356	6.500
20.9	-14.899	6.500
21	-16.807	6.500
21.1	-22.211	6.500
21.2	-17.059	6.500
21.3	-13.714	6.500
21.4	-14.201	6.500
21.5	-12.411	6.500
21.6	-16.256	6.500
21.7	-20.630	6.500
21.8	-13.120	6.500
21.9	-12.206	6.500
22	-9.684	6.500
22.1	-9.254	6.500
22.2	-10.715	6.500
22.3	-11.495	6.500
22.4	-13.472	6.500
22.5	-15.217	6.500
22.6	-14.044	6.500
22.7	-12.947	6.500
22.8	-16.590	6.500
22.9	-16.035	6.500
23	-15.093	6.500
23.1	-13.537	6.500
23.2	-14.642	6.500
23.3	-20.959	6.500
23.4	-22.701	6.500
23.5	-17.995	6.500
23.6	-20.115	6.500
23.7	-26.113	6.500
23.8	-29.180	6.500
23.9	-19.383	6.500
24	-14.119	6.500
24.1	-13.337	6.500
24.2	-12.528	6.500
24.3	-12.349	6.500
24.4	-15.855	6.500
24.5	-17.034	6.500

24.6	-19.445	6.500
24.7	-20.307	6.500
24.8	-30.402	6.500
24.9	-38.248	6.500
25	-22.434	6.500
25.1	-18.164	6.500
25.2	-18.113	6.500
25.3	-27.395	6.500
25.4	-21.527	6.500
25.5	-16.394	6.500
25.6	-17.636	6.500
25.7	-15.908	6.500
25.8	-14.210	6.500
25.9	-10.878	6.500
26	-12.751	6.500
26.1	-16.745	6.500
26.2	-21.061	6.500
26.3	-22.751	6.500
26.4	-18.968	6.500
26.5	-21.017	6.500
26.6	-13.703	6.500
26.7	-15.988	6.500
26.8	-13.636	6.500
26.9	-17.249	6.500
27	-21.833	6.500
27.1	-17.233	6.500
27.2	-13.996	6.500
27.3	-9.731	6.500
27.4	-11.866	6.500
27.5	-11.942	6.500
27.6	-16.050	6.500
27.7	-15.997	6.500
27.8	-19.350	6.500
27.9	-16.772	6.500
28	-18.849	6.500
28.1	-20.961	6.500
28.2	-14.980	6.500
28.3	-14.676	6.500
28.4	-12.095	6.500
28.5	-12.595	6.500
28.6	-13.733	6.500

28.7	-13.428	6.500
28.8	-13.191	6.500
28.9	-15.402	6.500
29	-18.266	6.500
29.1	-18.479	6.500
29.2	-18.484	6.500
29.3	-20.508	6.500
29.4	-16.732	6.500
29.5	-15.438	6.500
29.6	-15.520	6.500
29.7	-12.050	6.500
29.8	-12.084	6.500
29.9	-11.567	6.500
30	-16.517	6.500

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

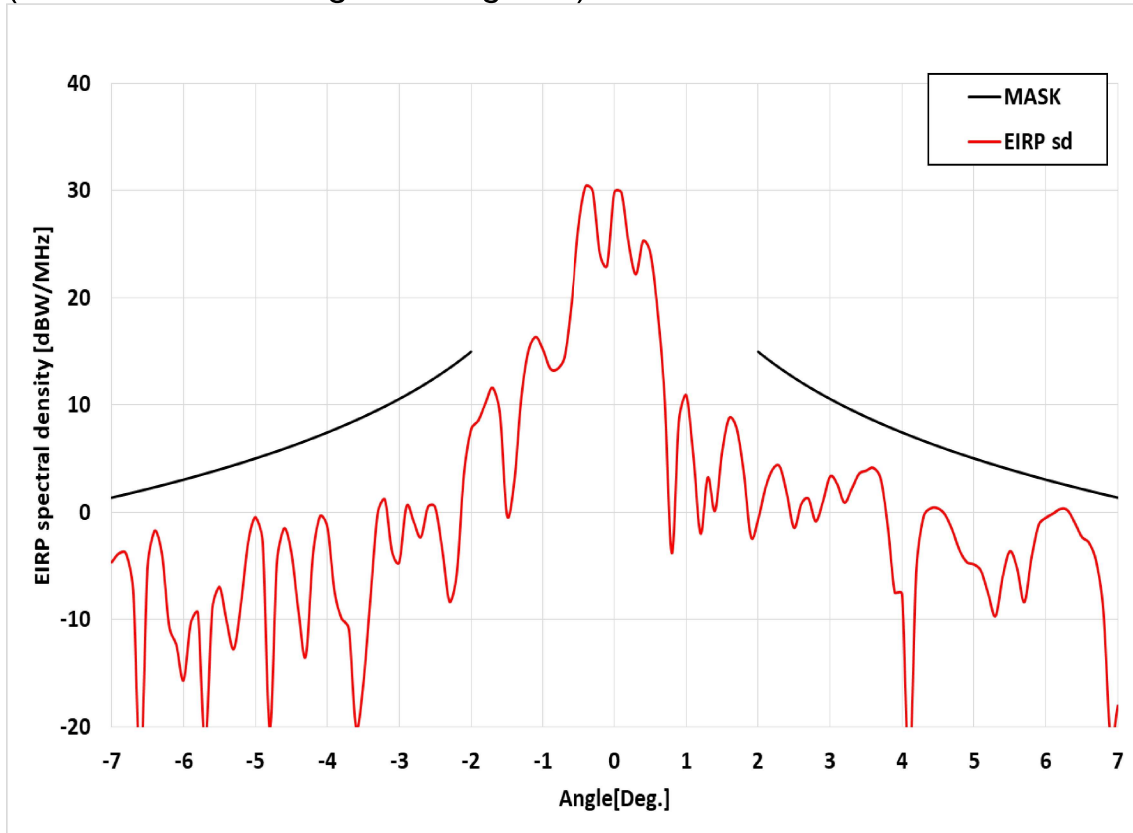
F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-6.272	1.373
-6.9	-12.451	1.529
-6.8	-9.690	1.687
-6.7	-10.216	1.848
-6.6	-16.080	2.011
-6.5	-12.034	2.177
-6.4	-15.222	2.346
-6.3	-8.635	2.516
-6.2	-6.841	2.690
-6.1	-13.744	2.867
-6	-15.683	3.046
-5.9	-11.482	3.229
-5.8	-16.686	3.414
-5.7	-16.628	3.603
-5.6	-23.174	3.795
-5.5	-7.841	3.991
-5.4	-6.349	4.190
-5.3	-12.342	4.393
-5.2	-17.248	4.600
-5.1	-11.383	4.811
-5	-10.871	5.026
-4.9	-10.360	5.245
-4.8	-4.498	5.469
-4.7	-3.393	5.698
-4.6	-7.215	5.931
-4.5	-5.970	6.170
-4.4	-6.510	6.414
-4.3	-15.485	6.663
-4.2	-13.636	6.919
-4.1	-15.722	7.180
-4	-1.941	7.449
-3.9	1.172	7.723
-3.8	0.406	8.005
-3.7	-2.884	8.295
-3.6	-17.507	8.592
-3.5	-5.359	8.898
-3.4	-3.583	9.213
-3.3	-18.218	9.537
-3.2	-4.293	9.871
-3.1	-2.308	10.216
-3	-0.828	10.572

-2.9	0.738	10.940
-2.8	-5.571	11.321
-2.7	-3.413	11.716
-2.6	2.747	12.126
-2.5	1.224	12.551
-2.4	-3.743	12.995
-2.3	1.072	13.457
-2.2	5.571	13.939
-2.1	7.078	14.445
-2	5.901	14.974
-1.9	3.006	
-1.8	6.344	
-1.7	7.898	
-1.6	4.847	
-1.5	-0.203	
-1.4	2.731	
-1.3	9.069	
-1.2	8.169	
-1.1	13.310	
-1	19.192	
-0.9	18.923	
-0.8	9.378	
-0.7	16.409	
-0.6	17.291	
-0.5	22.858	
-0.4	28.911	
-0.3	29.824	
-0.2	24.578	
-0.1	22.254	
-7.09655E-13	29.801	
0.1	30.345	
0.2	25.856	
0.3	20.264	
0.4	24.592	
0.5	23.182	
0.6	21.018	
0.7	21.590	
0.8	20.290	
0.9	16.055	
1	5.250	
1.1	4.467	

1.2	9.137	
1.3	6.331	
1.4	-0.159	
1.5	-2.940	
1.6	-0.054	
1.7	-0.666	
1.8	-5.304	
1.9	4.238	
2	6.105	14.974
2.1	6.287	14.445
2.2	6.203	13.939
2.3	4.194	13.457
2.4	0.259	12.995
2.5	-1.660	12.551
2.6	-2.687	12.126
2.7	-3.767	11.716
2.8	-3.969	11.321
2.9	-0.011	10.940
3	0.488	10.572
3.1	0.403	10.216
3.2	1.746	9.871
3.3	1.992	9.537
3.4	1.878	9.213
3.5	1.624	8.898
3.6	-0.386	8.592
3.7	-4.255	8.295
3.8	-6.745	8.005
3.9	-7.541	7.723
4	-12.397	7.449
4.1	-12.431	7.180
4.2	-6.418	6.919
4.3	-9.619	6.663
4.4	-22.772	6.414
4.5	-12.545	6.170
4.6	-10.586	5.931
4.7	-10.559	5.698
4.8	-12.135	5.469
4.9	-10.198	5.245
5	-7.419	5.026
5.1	-6.885	4.811
5.2	-5.770	4.600

5.3	-4.561	4.393
5.4	-3.655	4.190
5.5	-2.650	3.991
5.6	-3.356	3.795
5.7	-6.307	3.603
5.8	-9.818	3.414
5.9	-10.605	3.229
6	-9.003	3.046
6.1	-11.874	2.867
6.2	-15.298	2.690
6.3	-6.536	2.516
6.4	-5.044	2.346
6.5	-9.018	2.177
6.6	-11.833	2.011
6.7	-11.262	1.848
6.8	-18.046	1.687
6.9	-13.062	1.529
7	-8.079	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

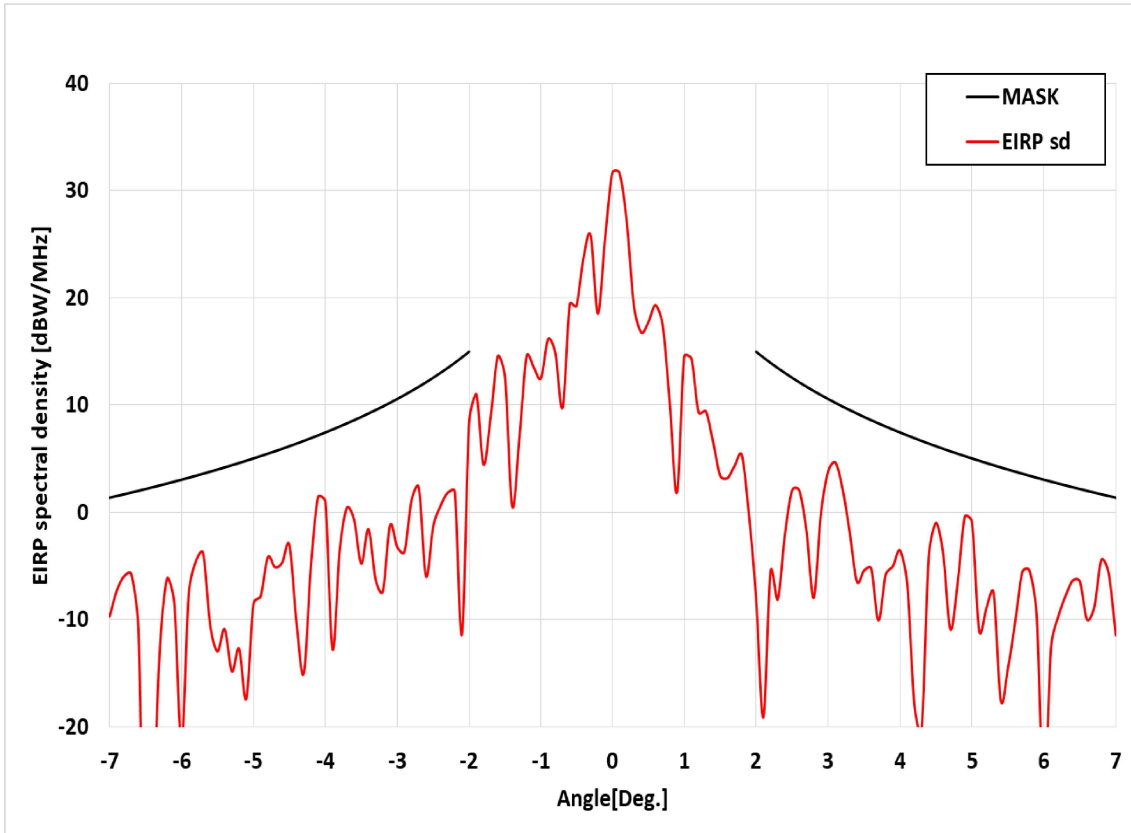
F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-4.646	1.373
-6.9	-3.836	1.529
-6.8	-3.844	1.687
-6.7	-7.311	1.848
-6.6	-24.239	2.011
-6.5	-5.015	2.177
-6.4	-1.704	2.346
-6.3	-3.891	2.516
-6.2	-10.633	2.690
-6.1	-12.345	2.867
-6	-15.656	3.046
-5.9	-10.323	3.229
-5.8	-9.401	3.414
-5.7	-21.648	3.603
-5.6	-8.986	3.795
-5.5	-6.960	3.991
-5.4	-10.174	4.190
-5.3	-12.733	4.393
-5.2	-8.411	4.600
-5.1	-2.745	4.811
-5	-0.453	5.026
-4.9	-2.679	5.245
-4.8	-20.176	5.469
-4.7	-4.608	5.698
-4.6	-1.488	5.931
-4.5	-3.752	6.170
-4.4	-9.278	6.414
-4.3	-13.407	6.663
-4.2	-3.956	6.919
-4.1	-0.350	7.180
-4	-1.346	7.449
-3.9	-7.381	7.723
-3.8	-9.925	8.005
-3.7	-10.892	8.295
-3.6	-20.004	8.592
-3.5	-15.991	8.898
-3.4	-7.962	9.213
-3.3	-0.091	9.537
-3.2	1.182	9.871
-3.1	-3.670	10.216
-3	-4.654	10.572

-2.9	0.550	10.940
-2.8	-0.847	11.321
-2.7	-2.311	11.716
-2.6	0.510	12.126
-2.5	0.474	12.551
-2.4	-3.518	12.995
-2.3	-8.332	13.457
-2.2	-5.758	13.939
-2.1	3.524	14.445
-2	7.709	14.974
-1.9	8.554	
-1.8	10.185	
-1.7	11.618	
-1.6	9.222	
-1.5	-0.299	
-1.4	2.824	
-1.3	10.803	
-1.2	15.157	
-1.1	16.350	
-1	15.153	
-0.9	13.410	
-0.8	13.362	
-0.7	14.452	
-0.6	19.564	
-0.5	26.612	
-0.4	30.378	
-0.3	29.948	
-0.2	24.104	
-0.1	23.014	
-7.09655E-13	29.801	
0.1	29.804	
0.2	25.090	
0.3	22.203	
0.4	25.302	
0.5	24.263	
0.6	18.912	
0.7	10.613	
0.8	-3.784	
0.9	8.611	
1	10.918	
1.1	5.242	

1.2	-1.963	
1.3	3.242	
1.4	0.145	
1.5	5.671	
1.6	8.819	
1.7	7.865	
1.8	3.716	
1.9	-2.271	
2	-0.668	14.974
2.1	2.227	14.445
2.2	3.988	13.939
2.3	4.276	13.457
2.4	1.710	12.995
2.5	-1.448	12.551
2.6	0.778	12.126
2.7	1.266	11.716
2.8	-0.836	11.321
2.9	0.984	10.940
3	3.339	10.572
3.1	2.610	10.216
3.2	0.915	9.871
3.3	2.165	9.537
3.4	3.564	9.213
3.5	3.877	8.898
3.6	4.141	8.592
3.7	3.237	8.295
3.8	-1.175	8.005
3.9	-7.479	7.723
4	-7.610	7.449
4.1	-24.459	7.180
4.2	-5.308	6.919
4.3	-0.393	6.663
4.4	0.374	6.414
4.5	0.365	6.170
4.6	-0.233	5.931
4.7	-1.674	5.698
4.8	-3.530	5.469
4.9	-4.630	5.245
5	-4.851	5.026
5.1	-5.494	4.811
5.2	-7.623	4.600

5.3	-9.668	4.393
5.4	-5.985	4.190
5.5	-3.630	3.991
5.6	-5.216	3.795
5.7	-8.370	3.603
5.8	-4.259	3.414
5.9	-1.189	3.229
6	-0.512	3.046
6.1	-0.118	2.867
6.2	0.306	2.690
6.3	0.194	2.516
6.4	-0.949	2.346
6.5	-2.284	2.177
6.6	-2.850	2.011
6.7	-4.595	1.848
6.8	-9.223	1.687
6.9	-21.085	1.529
7	-18.033	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

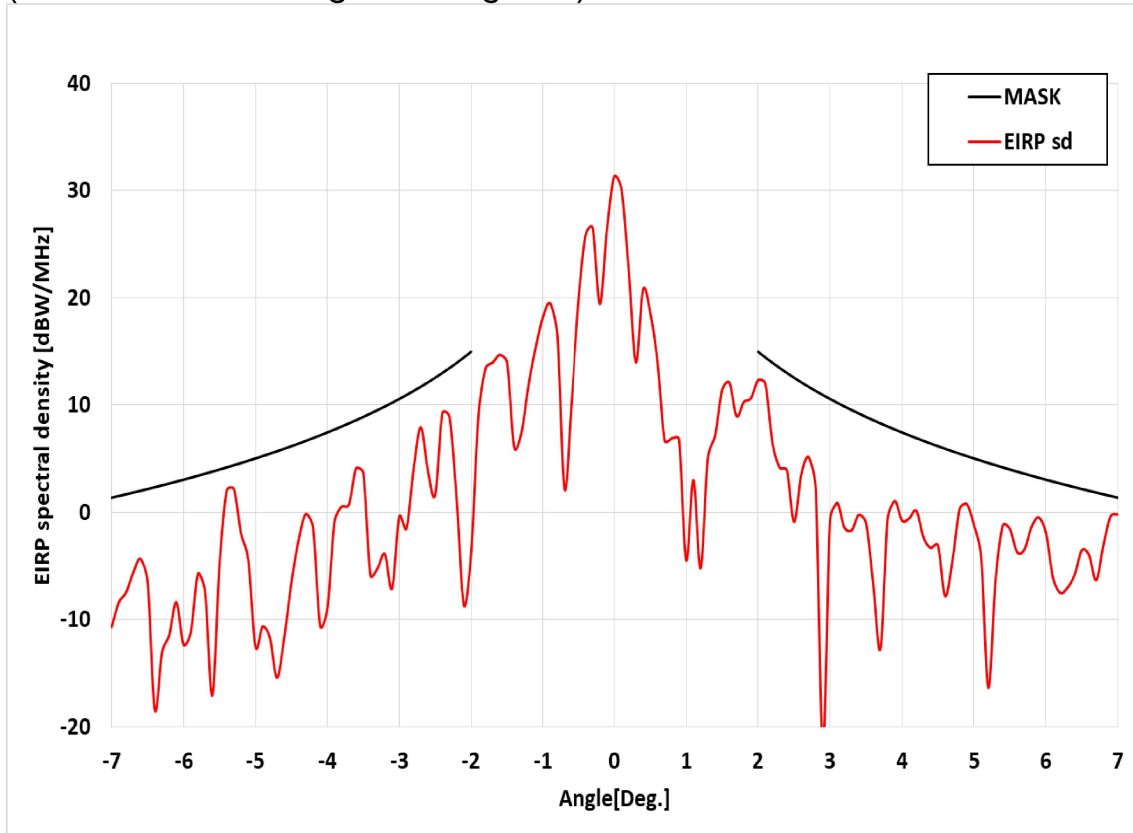
F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-9.689	1.373
-6.9	-7.288	1.529
-6.8	-5.966	1.687
-6.7	-5.744	1.848
-6.6	-10.888	2.011
-6.5	-41.549	2.177
-6.4	-28.763	2.346
-6.3	-12.492	2.516
-6.2	-6.163	2.690
-6.1	-8.512	2.867
-6	-21.486	3.046
-5.9	-7.598	3.229
-5.8	-4.544	3.414
-5.7	-3.797	3.603
-5.6	-10.607	3.795
-5.5	-12.969	3.991
-5.4	-10.902	4.190
-5.3	-14.826	4.393
-5.2	-12.715	4.600
-5.1	-17.395	4.811
-5	-8.521	5.026
-4.9	-7.846	5.245
-4.8	-4.206	5.469
-4.7	-5.112	5.698
-4.6	-4.695	5.931
-4.5	-3.060	6.170
-4.4	-10.337	6.414
-4.3	-15.002	6.663
-4.2	-4.923	6.919
-4.1	1.461	7.180
-4	0.997	7.449
-3.9	-12.761	7.723
-3.8	-3.532	8.005
-3.7	0.424	8.295
-3.6	-0.703	8.592
-3.5	-4.775	8.898
-3.4	-1.594	9.213
-3.3	-6.293	9.537
-3.2	-7.340	9.871
-3.1	-1.216	10.216
-3	-3.237	10.572

-2.9	-3.661	10.940
-2.8	1.166	11.321
-2.7	2.297	11.716
-2.6	-5.955	12.126
-2.5	-1.340	12.551
-2.4	0.568	12.995
-2.3	1.819	13.457
-2.2	1.968	13.939
-2.1	-11.385	14.445
-2	8.361	14.974
-1.9	11.003	
-1.8	4.469	
-1.7	8.921	
-1.6	14.578	
-1.5	12.571	
-1.4	0.561	
-1.3	7.011	
-1.2	14.582	
-1.1	13.493	
-1	12.540	
-0.9	16.179	
-0.8	14.832	
-0.7	9.786	
-0.6	19.422	
-0.5	19.204	
-0.4	23.693	
-0.3	25.799	
-0.2	18.530	
-0.1	25.490	
-7.09655E-13	31.628	
0.1	31.657	
0.2	27.184	
0.3	19.315	
0.4	16.787	
0.5	17.696	
0.6	19.311	
0.7	17.493	
0.8	10.124	
0.9	1.865	
1	14.522	
1.1	14.352	

1.2	9.328	
1.3	9.432	
1.4	6.614	
1.5	3.427	
1.6	3.188	
1.7	4.326	
1.8	5.339	
1.9	-0.254	
2	-8.095	14.974
2.1	-19.120	14.445
2.2	-5.542	13.939
2.3	-8.130	13.457
2.4	-2.058	12.995
2.5	2.046	12.551
2.6	2.028	12.126
2.7	-1.760	11.716
2.8	-7.969	11.321
2.9	-0.188	10.940
3	3.798	10.572
3.1	4.655	10.216
3.2	2.248	9.871
3.3	-1.820	9.537
3.4	-6.431	9.213
3.5	-5.430	8.898
3.6	-5.232	8.592
3.7	-10.074	8.295
3.8	-5.846	8.005
3.9	-5.044	7.723
4	-3.553	7.449
4.1	-6.680	7.180
4.2	-17.974	6.919
4.3	-20.260	6.663
4.4	-4.063	6.414
4.5	-0.977	6.170
4.6	-3.881	5.931
4.7	-10.903	5.698
4.8	-6.664	5.469
4.9	-0.398	5.245
5	-0.895	5.026
5.1	-11.042	4.811
5.2	-8.958	4.600

5.3	-7.464	4.393
5.4	-17.521	4.190
5.5	-14.583	3.991
5.6	-10.282	3.795
5.7	-5.580	3.603
5.8	-5.433	3.414
5.9	-9.624	3.229
6	-26.849	3.046
6.1	-12.607	2.867
6.2	-9.720	2.690
6.3	-7.809	2.516
6.4	-6.362	2.346
6.5	-6.448	2.177
6.6	-10.009	2.011
6.7	-8.857	1.848
6.8	-4.416	1.687
6.9	-5.636	1.529
7	-11.448	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

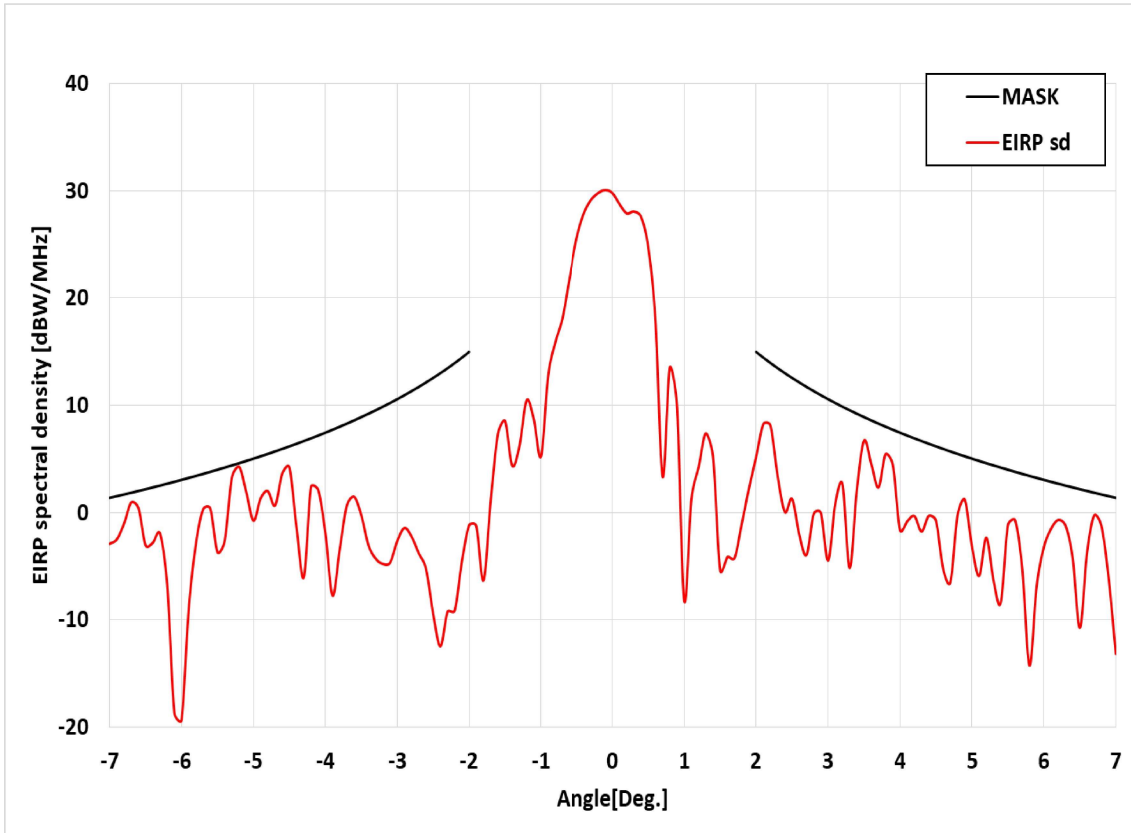
F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-10.675	1.373
-6.9	-8.399	1.529
-6.8	-7.474	1.687
-6.7	-5.626	1.848
-6.6	-4.323	2.011
-6.5	-6.459	2.177
-6.4	-18.402	2.346
-6.3	-13.083	2.516
-6.2	-11.458	2.690
-6.1	-8.380	2.867
-6	-12.337	3.046
-5.9	-11.207	3.229
-5.8	-5.728	3.414
-5.7	-7.442	3.603
-5.6	-17.082	3.795
-5.5	-4.892	3.991
-5.4	2.012	4.190
-5.3	2.186	4.393
-5.2	-2.000	4.600
-5.1	-4.418	4.811
-5	-12.517	5.026
-4.9	-10.653	5.245
-4.8	-11.647	5.469
-4.7	-15.419	5.698
-4.6	-11.700	5.931
-4.5	-6.565	6.170
-4.4	-2.604	6.414
-4.3	-0.153	6.663
-4.2	-1.368	6.919
-4.1	-10.560	7.180
-4	-8.997	7.449
-3.9	-0.856	7.723
-3.8	0.535	8.005
-3.7	0.714	8.295
-3.6	4.109	8.592
-3.5	3.679	8.898
-3.4	-5.891	9.213
-3.3	-5.185	9.537
-3.2	-3.890	9.871
-3.1	-7.100	10.216
-3	-0.413	10.572

-2.9	-1.506	10.940
-2.8	4.046	11.321
-2.7	7.925	11.716
-2.6	3.841	12.126
-2.5	1.629	12.551
-2.4	9.245	12.995
-2.3	8.871	13.457
-2.2	1.068	13.939
-2.1	-8.662	14.445
-2	-3.825	14.974
-1.9	8.863	
-1.8	13.390	
-1.7	13.967	
-1.6	14.681	
-1.5	13.980	
-1.4	6.067	
-1.3	7.429	
-1.2	11.945	
-1.1	15.434	
-1	18.224	
-0.9	19.469	
-0.8	16.484	
-0.7	2.174	
-0.6	10.387	
-0.5	19.627	
-0.4	25.815	
-0.3	26.521	
-0.2	19.423	
-0.1	26.467	
-7.09655E-13	31.328	
0.1	30.131	
0.2	22.679	
0.3	13.991	
0.4	20.752	
0.5	18.636	
0.6	14.072	
0.7	6.691	
0.8	6.891	
0.9	6.820	
1	-4.456	
1.1	2.992	

1.2	-5.208	
1.3	5.012	
1.4	7.098	
1.5	11.425	
1.6	12.108	
1.7	8.974	
1.8	10.282	
1.9	10.650	
2	12.326	14.974
2.1	11.990	14.445
2.2	6.465	13.939
2.3	4.160	13.457
2.4	3.910	12.995
2.5	-0.880	12.551
2.6	3.544	12.126
2.7	5.175	11.716
2.8	2.297	11.321
2.9	-21.845	10.940
3	-0.645	10.572
3.1	0.895	10.216
3.2	-1.424	9.871
3.3	-1.670	9.537
3.4	-0.226	9.213
3.5	-0.988	8.898
3.6	-6.694	8.592
3.7	-12.698	8.295
3.8	-0.623	8.005
3.9	1.066	7.723
4	-0.759	7.449
4.1	-0.564	7.180
4.2	0.131	6.919
4.3	-2.369	6.663
4.4	-3.322	6.414
4.5	-3.081	6.170
4.6	-7.803	5.931
4.7	-4.545	5.698
4.8	0.285	5.469
4.9	0.773	5.245
5	-1.188	5.026
5.1	-4.163	4.811
5.2	-16.358	4.600

5.3	-6.354	4.393
5.4	-1.235	4.190
5.5	-1.547	3.991
5.6	-3.701	3.795
5.7	-3.493	3.603
5.8	-1.379	3.414
5.9	-0.478	3.229
6	-1.886	3.046
6.1	-6.125	2.867
6.2	-7.504	2.690
6.3	-7.035	2.516
6.4	-5.801	2.346
6.5	-3.527	2.177
6.6	-3.982	2.011
6.7	-6.318	1.848
6.8	-3.065	1.687
6.9	-0.374	1.529
7	-0.200	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

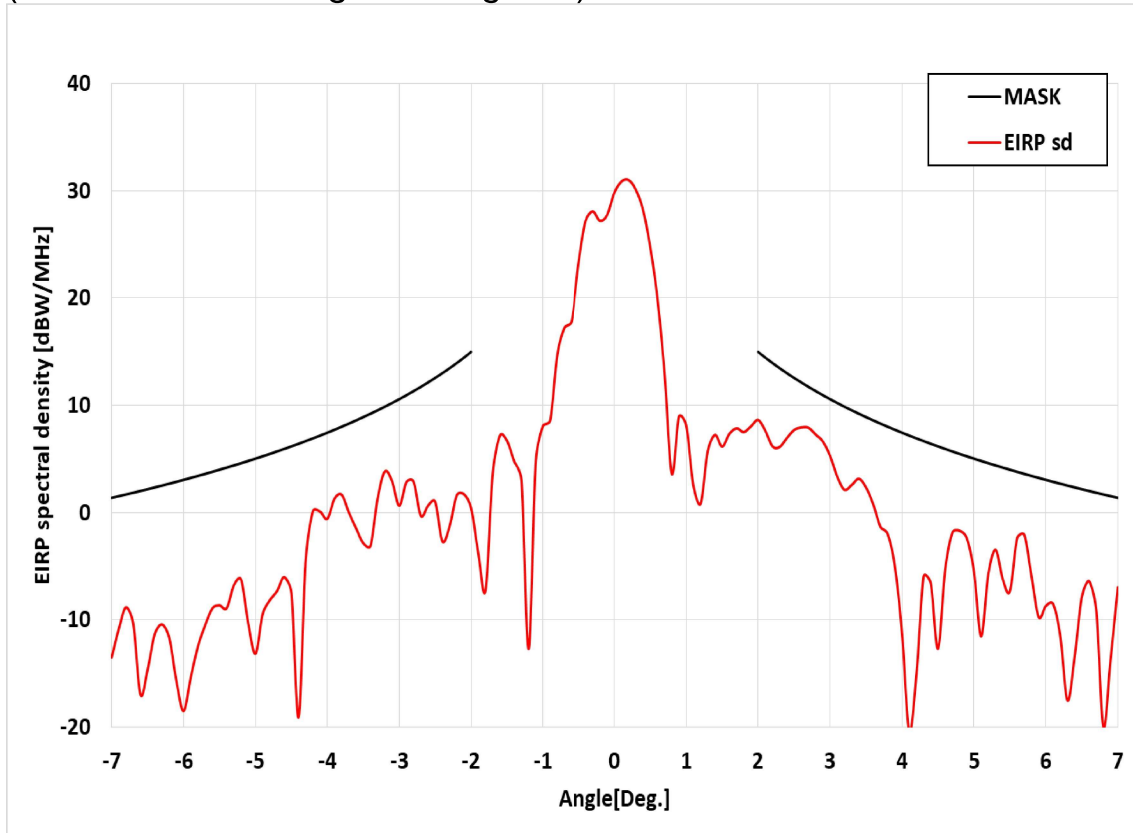
F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-2.915	1.373
-6.9	-2.494	1.529
-6.8	-1.042	1.687
-6.7	0.941	1.848
-6.6	0.427	2.011
-6.5	-3.061	2.177
-6.4	-2.821	2.346
-6.3	-1.957	2.516
-6.2	-6.777	2.690
-6.1	-18.674	2.867
-6	-19.361	3.046
-5.9	-8.978	3.229
-5.8	-2.932	3.414
-5.7	0.292	3.603
-5.6	0.358	3.795
-5.5	-3.711	3.991
-5.4	-2.639	4.190
-5.3	3.257	4.393
-5.2	4.275	4.600
-5.1	1.907	4.811
-5	-0.759	5.026
-4.9	1.320	5.245
-4.8	1.992	5.469
-4.7	0.651	5.698
-4.6	3.606	5.931
-4.5	4.209	6.170
-4.4	-1.422	6.414
-4.3	-6.038	6.663
-4.2	2.382	6.919
-4.1	2.138	7.180
-4	-1.904	7.449
-3.9	-7.737	7.723
-3.8	-3.449	8.005
-3.7	0.688	8.295
-3.6	1.470	8.592
-3.5	-0.248	8.898
-3.4	-3.049	9.213
-3.3	-4.300	9.537
-3.2	-4.792	9.871
-3.1	-4.678	10.216
-3	-2.659	10.572

-2.9	-1.448	10.940
-2.8	-2.249	11.321
-2.7	-3.818	11.716
-2.6	-5.248	12.126
-2.5	-9.434	12.551
-2.4	-12.473	12.995
-2.3	-9.251	13.457
-2.2	-9.133	13.939
-2.1	-4.554	14.445
-2	-1.200	14.974
-1.9	-1.278	
-1.8	-6.343	
-1.7	1.102	
-1.6	7.322	
-1.5	8.532	
-1.4	4.360	
-1.3	6.208	
-1.2	10.461	
-1.1	8.679	
-1	5.247	
-0.9	12.812	
-0.8	15.873	
-0.7	18.148	
-0.6	21.925	
-0.5	25.527	
-0.4	27.831	
-0.3	29.116	
-0.2	29.775	
-0.1	30.071	
0	29.801	
0.1	28.767	
0.2	27.900	
0.3	28.063	
0.4	27.572	
0.5	24.757	
0.6	17.902	
0.7	3.332	
0.8	13.516	
0.9	9.967	
1	-8.208	
1.1	1.241	

1.2	4.203	
1.3	7.383	
1.4	5.221	
1.5	-5.398	
1.6	-4.146	
1.7	-4.235	
1.8	-1.054	
1.9	2.250	
2	5.188	14.974
2.1	8.252	14.445
2.2	8.092	13.939
2.3	3.352	13.457
2.4	0.039	12.995
2.5	1.267	12.551
2.6	-2.071	12.126
2.7	-3.953	11.716
2.8	-0.137	11.321
2.9	-0.047	10.940
3	-4.481	10.572
3.1	0.842	10.216
3.2	2.647	9.871
3.3	-5.159	9.537
3.4	2.110	9.213
3.5	6.693	8.898
3.6	4.550	8.592
3.7	2.354	8.295
3.8	5.452	8.005
3.9	4.446	7.723
4	-1.629	7.449
4.1	-0.836	7.180
4.2	-0.334	6.919
4.3	-1.772	6.663
4.4	-0.302	6.414
4.5	-0.769	6.170
4.6	-5.255	5.931
4.7	-6.501	5.698
4.8	-0.239	5.469
4.9	1.204	5.245
5	-3.161	5.026
5.1	-5.906	4.811
5.2	-2.345	4.600

5.3	-6.341	4.393
5.4	-8.395	4.190
5.5	-1.198	3.991
5.6	-0.710	3.795
5.7	-5.297	3.603
5.8	-14.256	3.414
5.9	-6.858	3.229
6	-3.234	3.046
6.1	-1.518	2.867
6.2	-0.689	2.690
6.3	-1.199	2.516
6.4	-4.245	2.346
6.5	-10.752	2.177
6.6	-3.741	2.011
6.7	-0.260	1.848
6.8	-1.249	1.687
6.9	-6.085	1.529
7	-13.185	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

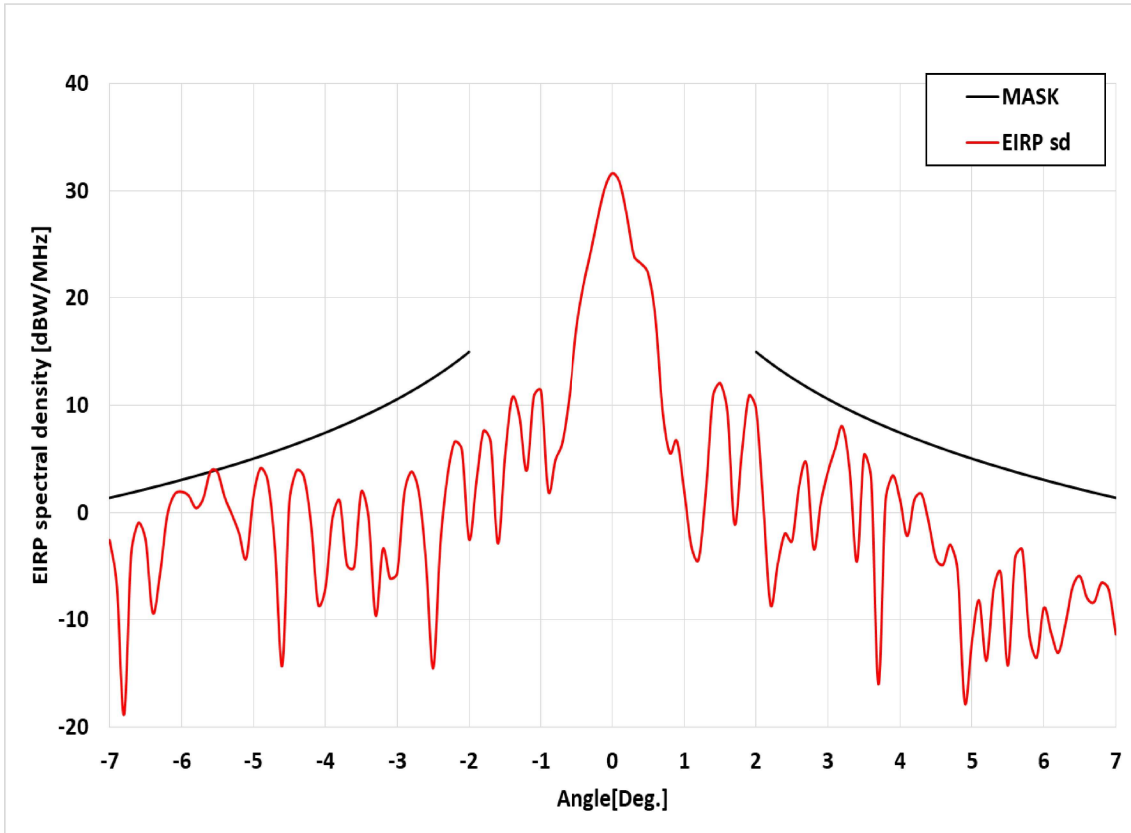
F=27.5GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-13.500	1.373
-6.9	-10.837	1.529
-6.8	-8.826	1.687
-6.7	-10.325	1.848
-6.6	-16.952	2.011
-6.5	-14.641	2.177
-6.4	-11.309	2.346
-6.3	-10.435	2.516
-6.2	-11.657	2.690
-6.1	-15.677	2.867
-6	-18.507	3.046
-5.9	-15.386	3.229
-5.8	-12.495	3.414
-5.7	-10.521	3.603
-5.6	-8.948	3.795
-5.5	-8.654	3.991
-5.4	-8.915	4.190
-5.3	-6.770	4.393
-5.2	-6.260	4.600
-5.1	-10.346	4.811
-5	-13.167	5.026
-4.9	-9.492	5.245
-4.8	-8.178	5.469
-4.7	-7.335	5.698
-4.6	-6.012	5.931
-4.5	-7.457	6.170
-4.4	-19.089	6.414
-4.3	-4.370	6.663
-4.2	0.131	6.919
-4.1	0.081	7.180
-4	-0.577	7.449
-3.9	1.299	7.723
-3.8	1.657	8.005
-3.7	-0.001	8.295
-3.6	-1.480	8.592
-3.5	-2.854	8.898
-3.4	-3.106	9.213
-3.3	1.345	9.537
-3.2	3.833	9.871
-3.1	2.920	10.216
-3	0.637	10.572

-2.9	2.847	10.940
-2.8	2.866	11.321
-2.7	-0.307	11.716
-2.6	0.631	12.126
-2.5	1.014	12.551
-2.4	-2.681	12.995
-2.3	-1.294	13.457
-2.2	1.605	13.939
-2.1	1.714	14.445
-2	0.410	14.974
-1.9	-3.833	
-1.8	-7.262	
-1.7	3.606	
-1.6	7.171	
-1.5	6.679	
-1.4	4.758	
-1.3	3.015	
-1.2	-12.720	
-1.1	4.814	
-1	8.084	
-0.9	8.609	
-0.8	14.733	
-0.7	17.249	
-0.6	17.856	
-0.5	23.196	
-0.4	27.174	
-0.3	28.084	
-0.2	27.199	
-0.1	27.726	
0	29.801	
0.1	30.856	
0.2	30.997	
0.3	30.081	
0.4	28.206	
0.5	24.754	
0.6	19.944	
0.7	12.860	
0.8	3.623	
0.9	8.939	
1	8.125	
1.1	2.492	

1.2	0.820	
1.3	5.751	
1.4	7.236	
1.5	6.151	
1.6	7.338	
1.7	7.851	
1.8	7.502	
1.9	8.037	
2	8.627	14.974
2.1	7.621	14.445
2.2	6.172	13.939
2.3	6.119	13.457
2.4	6.949	12.995
2.5	7.696	12.551
2.6	7.936	12.126
2.7	7.899	11.716
2.8	7.276	11.321
2.9	6.619	10.940
3	5.275	10.572
3.1	3.336	10.216
3.2	2.130	9.871
3.3	2.559	9.537
3.4	3.154	9.213
3.5	2.341	8.898
3.6	0.766	8.592
3.7	-1.325	8.295
3.8	-2.004	8.005
3.9	-5.002	7.723
4	-11.265	7.449
4.1	-20.367	7.180
4.2	-15.142	6.919
4.3	-5.959	6.663
4.4	-6.598	6.414
4.5	-12.693	6.170
4.6	-5.341	5.931
4.7	-1.887	5.698
4.8	-1.698	5.469
4.9	-2.384	5.245
5	-5.522	5.026
5.1	-11.549	4.811
5.2	-5.712	4.600

5.3	-3.461	4.393
5.4	-6.214	4.190
5.5	-7.345	3.991
5.6	-2.415	3.795
5.7	-2.079	3.603
5.8	-5.917	3.414
5.9	-9.736	3.229
6	-8.709	3.046
6.1	-8.522	2.867
6.2	-11.510	2.690
6.3	-17.518	2.516
6.4	-13.423	2.346
6.5	-7.860	2.177
6.6	-6.398	2.011
6.7	-9.086	1.848
6.8	-20.010	1.687
6.9	-13.655	1.529
7	-6.973	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

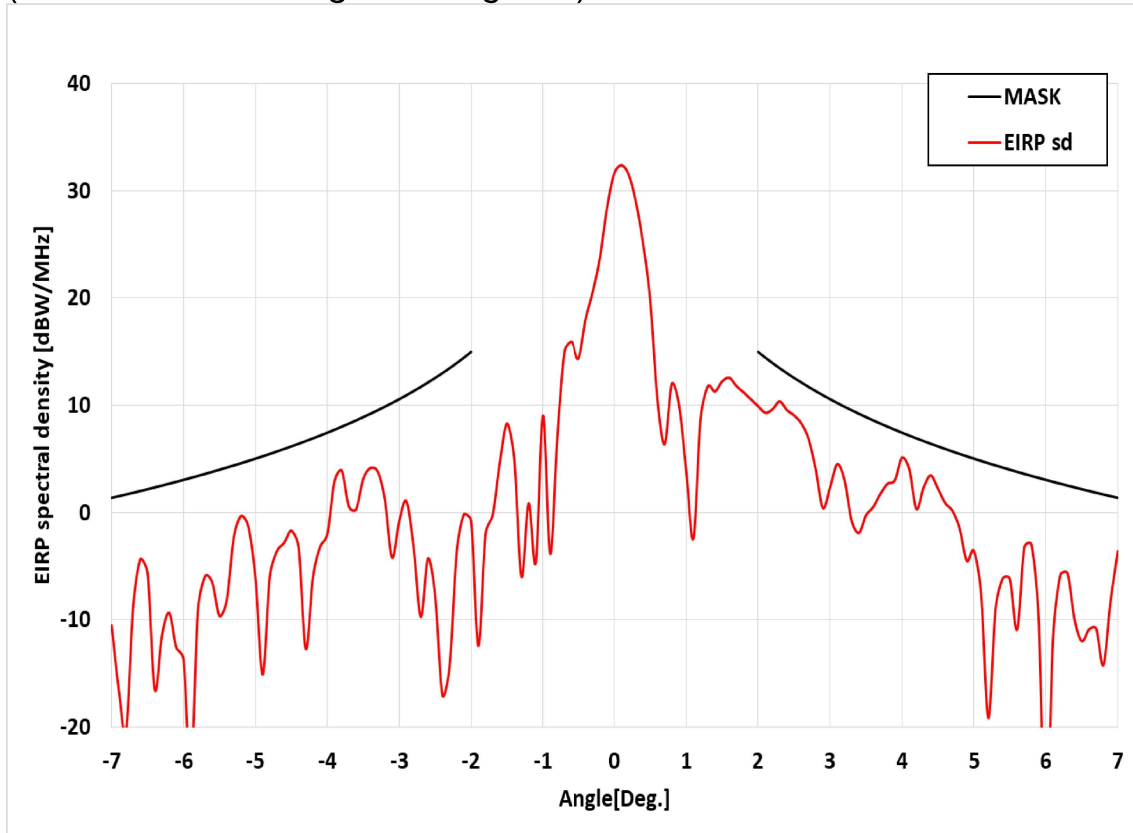
F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-2.575	1.373
-6.9	-6.833	1.529
-6.8	-18.855	1.687
-6.7	-3.845	1.848
-6.6	-0.960	2.011
-6.5	-2.553	2.177
-6.4	-9.347	2.346
-6.3	-5.742	2.516
-6.2	-0.295	2.690
-6.1	1.672	2.867
-6	1.937	3.046
-5.9	1.562	3.229
-5.8	0.426	3.414
-5.7	1.273	3.603
-5.6	3.795	3.795
-5.5	3.758	3.991
-5.4	1.436	4.190
-5.3	-0.177	4.393
-5.2	-1.944	4.600
-5.1	-4.272	4.811
-5	1.513	5.026
-4.9	4.133	5.245
-4.8	2.946	5.469
-4.7	-3.355	5.698
-4.6	-14.306	5.931
-4.5	0.981	6.170
-4.4	3.909	6.414
-4.3	3.382	6.663
-4.2	-1.006	6.919
-4.1	-8.565	7.180
-4	-7.100	7.449
-3.9	-0.480	7.723
-3.8	1.081	8.005
-3.7	-4.858	8.295
-3.6	-5.074	8.592
-3.5	1.922	8.898
-3.4	-0.414	9.213
-3.3	-9.608	9.537
-3.2	-3.411	9.871
-3.1	-6.136	10.216
-3	-5.621	10.572

-2.9	1.898	10.940
-2.8	3.823	11.321
-2.7	1.907	11.716
-2.6	-4.632	12.126
-2.5	-14.529	12.551
-2.4	-3.016	12.995
-2.3	3.440	13.457
-2.2	6.608	13.939
-2.1	5.840	14.445
-2	-2.501	14.974
-1.9	2.809	
-1.8	7.603	
-1.7	6.578	
-1.6	-2.861	
-1.5	5.225	
-1.4	10.711	
-1.3	8.929	
-1.2	3.908	
-1.1	10.830	
-1	11.340	
-0.9	2.043	
-0.8	4.874	
-0.7	6.583	
-0.6	10.966	
-0.5	17.219	
-0.4	21.236	
-0.3	24.293	
-0.2	27.540	
-0.1	30.325	
0	31.628	
0.1	30.831	
0.2	27.799	
0.3	23.983	
0.4	23.222	
0.5	22.270	
0.6	18.124	
0.7	9.453	
0.8	5.565	
0.9	6.638	
1	2.010	
1.1	-3.168	

1.2	-4.380	
1.3	1.860	
1.4	10.849	
1.5	12.066	
1.6	9.418	
1.7	-1.081	
1.8	5.526	
1.9	10.881	
2	9.627	14.974
2.1	0.691	14.445
2.2	-8.598	13.939
2.3	-4.819	13.457
2.4	-1.952	12.995
2.5	-2.641	12.551
2.6	2.547	12.126
2.7	4.534	11.716
2.8	-3.390	11.321
2.9	0.942	10.940
3	3.849	10.572
3.1	6.013	10.216
3.2	8.008	9.871
3.3	3.967	9.537
3.4	-4.577	9.213
3.5	5.368	8.898
3.6	3.086	8.592
3.7	-16.013	8.295
3.8	1.145	8.005
3.9	3.461	7.723
4	1.200	7.449
4.1	-2.171	7.180
4.2	1.205	6.919
4.3	1.719	6.663
4.4	-0.960	6.414
4.5	-4.326	6.170
4.6	-4.851	5.931
4.7	-3.004	5.698
4.8	-5.386	5.469
4.9	-17.723	5.245
5	-12.034	5.026
5.1	-8.208	4.811
5.2	-13.806	4.600

5.3	-7.193	4.393
5.4	-5.636	4.190
5.5	-14.251	3.991
5.6	-4.259	3.795
5.7	-3.463	3.603
5.8	-11.507	3.414
5.9	-13.512	3.229
6	-8.903	3.046
6.1	-11.189	2.867
6.2	-13.058	2.690
6.3	-10.387	2.516
6.4	-6.924	2.346
6.5	-5.930	2.177
6.6	-7.968	2.011
6.7	-8.330	1.848
6.8	-6.568	1.687
6.9	-7.151	1.529
7	-11.354	1.373

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



+3.16 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 Gen-II's Ka-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ +3.16 dBW/ MHz

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

F=30.0GHz, +3.16 dBW/MHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-10.542	1.373
-6.9	-16.566	1.529
-6.8	-20.404	1.687
-6.7	-8.722	1.848
-6.6	-4.336	2.011
-6.5	-5.682	2.177
-6.4	-16.516	2.346
-6.3	-11.439	2.516
-6.2	-9.361	2.690
-6.1	-12.628	2.867
-6	-13.704	3.046
-5.9	-24.480	3.229
-5.8	-9.109	3.414
-5.7	-5.933	3.603
-5.6	-6.538	3.795
-5.5	-9.660	3.991
-5.4	-8.215	4.190
-5.3	-2.256	4.393
-5.2	-0.312	4.600
-5.1	-1.278	4.811
-5	-6.143	5.026
-4.9	-15.098	5.245
-4.8	-5.971	5.469
-4.7	-3.599	5.698
-4.6	-2.818	5.931
-4.5	-1.693	6.170
-4.4	-3.203	6.414
-4.3	-12.713	6.663
-4.2	-6.026	6.919
-4.1	-3.186	7.180
-4	-2.012	7.449
-3.9	2.946	7.723
-3.8	3.914	8.005
-3.7	0.558	8.295
-3.6	0.301	8.592
-3.5	3.147	8.898
-3.4	4.156	9.213
-3.3	3.833	9.537
-3.2	1.197	9.871
-3.1	-4.202	10.216
-3	-0.797	10.572

-2.9	1.042	10.940
-2.8	-3.245	11.321
-2.7	-9.732	11.716
-2.6	-4.288	12.126
-2.5	-7.753	12.551
-2.4	-17.010	12.995
-2.3	-14.389	13.457
-2.2	-3.623	13.939
-2.1	-0.164	14.445
-2	-0.775	14.974
-1.9	-12.427	
-1.8	-2.042	
-1.7	-0.242	
-1.6	4.716	
-1.5	8.292	
-1.4	4.986	
-1.3	-5.974	
-1.2	0.834	
-1.1	-4.644	
-1	9.042	
-0.9	-3.852	
-0.8	7.104	
-0.7	15.055	
-0.6	15.920	
-0.5	14.366	
-0.4	17.986	
-0.3	20.571	
-0.2	23.736	
-0.1	28.415	
0	31.628	
0.1	32.383	
0.2	31.516	
0.3	28.974	
0.4	25.094	
0.5	19.745	
0.6	10.532	
0.7	6.378	
0.8	11.979	
0.9	10.051	
1	3.894	
1.1	-2.418	

1.2	8.736	
1.3	11.759	
1.4	11.287	
1.5	12.224	
1.6	12.566	
1.7	11.776	
1.8	11.197	
1.9	10.557	
2	9.918	14.974
2.1	9.299	14.445
2.2	9.631	13.939
2.3	10.361	13.457
2.4	9.553	12.995
2.5	9.060	12.551
2.6	8.309	12.126
2.7	6.883	11.716
2.8	4.036	11.321
2.9	0.426	10.940
3	2.359	10.572
3.1	4.519	10.216
3.2	3.059	9.871
3.3	-0.790	9.537
3.4	-1.904	9.213
3.5	-0.267	8.898
3.6	0.511	8.592
3.7	1.751	8.295
3.8	2.685	8.005
3.9	2.994	7.723
4	5.114	7.449
4.1	4.083	7.180
4.2	0.348	6.919
4.3	2.330	6.663
4.4	3.459	6.414
4.5	2.225	6.170
4.6	0.893	5.931
4.7	0.158	5.698
4.8	-1.454	5.469
4.9	-4.493	5.245
5	-3.592	5.026
5.1	-7.607	4.811
5.2	-19.154	4.600

5.3	-9.011	4.393
5.4	-6.148	4.190
5.5	-6.199	3.991
5.6	-10.915	3.795
5.7	-3.243	3.603
5.8	-2.985	3.414
5.9	-9.958	3.229
6	-31.406	3.046
6.1	-11.698	2.867
6.2	-5.865	2.690
6.3	-5.659	2.516
6.4	-10.040	2.346
6.5	-11.990	2.177
6.6	-10.897	2.011
6.7	-10.848	1.848
6.8	-14.210	1.687
6.9	-8.227	1.529
7	-3.611	1.373