

80010664

821 MHz

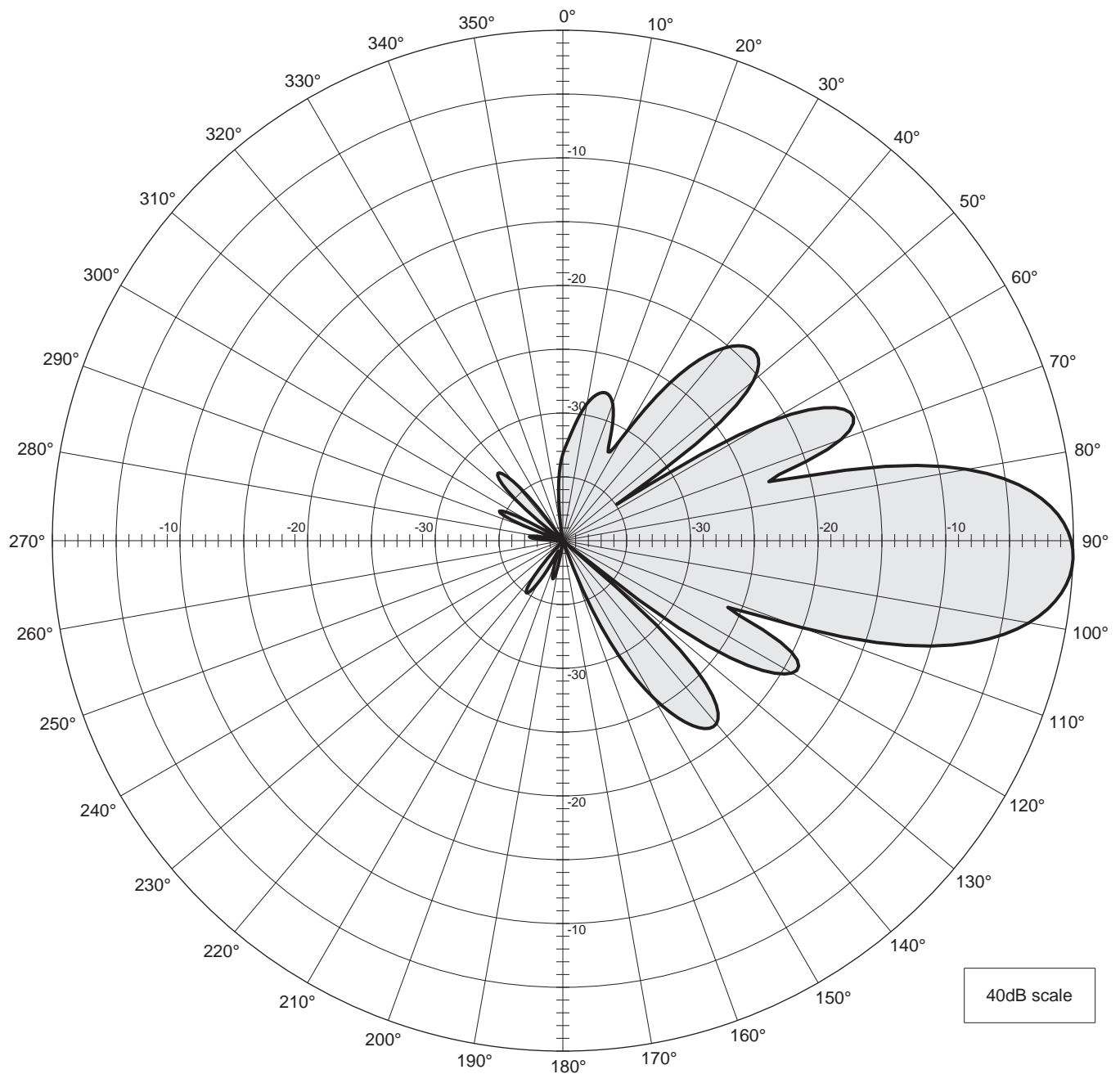
12.19 dBd (14.34 dBi)

-45 polarization

Vertical radiation pattern

2 degree electrical downtilt

KATHREIN
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12.19 dBd (14.34 dBi)

-45 polarization

Vertical radiation pattern

2 degree electrical downtilt

Angle	Field	Rel.dB	dBi	dBd	Angle	Field	Rel.dB	dBi	dBd
0	0.022	-33.20	-18.86	-21.01	45	0.114	-18.88	-4.54	-6.69
1	0.023	-32.84	-18.50	-20.65	46	0.113	-18.91	-4.57	-6.72
2	0.024	-32.50	-18.16	-20.31	47	0.111	-19.06	-4.72	-6.87
3	0.025	-32.14	-17.80	-19.95	48	0.108	-19.35	-5.01	-7.16
4	0.026	-31.74	-17.40	-19.55	49	0.102	-19.82	-5.48	-7.63
5	0.027	-31.31	-16.97	-19.12	50	0.094	-20.50	-6.16	-8.31
6	0.029	-30.84	-16.50	-18.65	51	0.085	-21.45	-7.11	-9.26
7	0.030	-30.37	-16.03	-18.18	52	0.073	-22.75	-8.41	-10.56
8	0.032	-29.91	-15.57	-17.72	53	0.059	-24.56	-10.22	-12.37
9	0.034	-29.48	-15.14	-17.29	54	0.044	-27.15	-12.81	-14.96
10	0.035	-29.09	-14.75	-16.90	55	0.028	-30.94	-16.60	-18.75
11	0.036	-28.76	-14.42	-16.57	56	0.018	-34.91	-20.57	-22.72
12	0.038	-28.48	-14.14	-16.29	57	0.026	-31.86	-17.52	-19.67
13	0.039	-28.26	-13.92	-16.07	58	0.044	-27.21	-12.87	-15.02
14	0.039	-28.09	-13.75	-15.90	59	0.064	-23.87	-9.53	-11.68
15	0.040	-27.98	-13.64	-15.79	60	0.085	-21.42	-7.08	-9.23
16	0.040	-27.94	-13.60	-15.75	61	0.105	-19.57	-5.23	-7.38
17	0.040	-27.97	-13.63	-15.78	62	0.124	-18.14	-3.80	-5.95
18	0.039	-28.09	-13.75	-15.90	63	0.140	-17.05	-2.71	-4.86
19	0.039	-28.29	-13.95	-16.10	64	0.154	-16.23	-1.89	-4.04
20	0.037	-28.58	-14.24	-16.39	65	0.165	-15.67	-1.33	-3.48
21	0.036	-28.97	-14.63	-16.78	66	0.171	-15.34	-1.00	-3.15
22	0.034	-29.45	-15.11	-17.26	67	0.173	-15.26	-0.92	-3.07
23	0.032	-30.01	-15.67	-17.82	68	0.169	-15.45	-1.11	-3.26
24	0.029	-30.63	-16.29	-18.44	69	0.160	-15.94	-1.60	-3.75
25	0.027	-31.27	-16.93	-19.08	70	0.145	-16.79	-2.45	-4.60
26	0.026	-31.84	-17.50	-19.65	71	0.124	-18.11	-3.77	-5.92
27	0.025	-32.19	-17.85	-20.00	72	0.100	-20.01	-5.67	-7.82
28	0.025	-32.13	-17.79	-19.94	73	0.077	-22.30	-7.96	-10.11
29	0.026	-31.54	-17.20	-19.35	74	0.069	-23.21	-8.87	-11.02
30	0.030	-30.50	-16.16	-18.31	75	0.092	-20.68	-6.34	-8.49
31	0.035	-29.20	-14.86	-17.01	76	0.139	-17.17	-2.83	-4.98
32	0.041	-27.82	-13.48	-15.63	77	0.197	-14.12	0.22	-1.93
33	0.047	-26.48	-12.14	-14.29	78	0.262	-11.63	2.71	0.56
34	0.055	-25.25	-10.91	-13.06	79	0.333	-9.56	4.78	2.63
35	0.062	-24.13	-9.79	-11.94	80	0.406	-7.83	6.51	4.36
36	0.070	-23.13	-8.79	-10.94	81	0.481	-6.35	7.99	5.84
37	0.077	-22.26	-7.92	-10.07	82	0.556	-5.10	9.24	7.09
38	0.084	-21.50	-7.16	-9.31	83	0.630	-4.02	10.32	8.17
39	0.091	-20.84	-6.50	-8.65	84	0.700	-3.10	11.24	9.09
40	0.097	-20.28	-5.94	-8.09	85	0.765	-2.33	12.01	9.86
41	0.102	-19.81	-5.47	-7.62	86	0.824	-1.68	12.66	10.51
42	0.107	-19.44	-5.10	-7.25	87	0.877	-1.14	13.20	11.05
43	0.110	-19.16	-4.82	-6.97	88	0.920	-0.72	13.62	11.47
44	0.113	-18.97	-4.63	-6.78	89	0.955	-0.40	13.94	11.79

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12.19 dBd (14.34 dBi)

-45 polarization

Vertical radiation pattern

2 degree electrical downtilt

Angle	Field	Rel.dB	dBi	dBd	Angle	Field	Rel.dB	dBi	dBd
90	0.981	-0.17	14.17	12.02	135	0.062	-24.16	-9.82	-11.97
91	0.995	-0.04	14.30	12.15	136	0.070	-23.12	-8.78	-10.93
92	1.000	0.00	14.34	12.19	137	0.076	-22.36	-8.02	-10.17
93	0.994	-0.05	14.29	12.14	138	0.081	-21.82	-7.48	-9.63
94	0.979	-0.18	14.16	12.01	139	0.084	-21.47	-7.13	-9.28
95	0.954	-0.41	13.93	11.78	140	0.086	-21.28	-6.94	-9.09
96	0.920	-0.72	13.62	11.47	141	0.087	-21.25	-6.91	-9.06
97	0.878	-1.13	13.21	11.06	142	0.086	-21.34	-7.00	-9.15
98	0.830	-1.62	12.72	10.57	143	0.084	-21.56	-7.22	-9.37
99	0.774	-2.22	12.12	9.97	144	0.080	-21.89	-7.55	-9.70
100	0.714	-2.92	11.42	9.27	145	0.077	-22.32	-7.98	-10.13
101	0.650	-3.74	10.60	8.45	146	0.072	-22.84	-8.50	-10.65
102	0.583	-4.68	9.66	7.51	147	0.067	-23.45	-9.11	-11.26
103	0.515	-5.76	8.58	6.43	148	0.062	-24.15	-9.81	-11.96
104	0.447	-6.99	7.35	5.20	149	0.057	-24.92	-10.58	-12.73
105	0.380	-8.41	5.93	3.78	150	0.052	-25.76	-11.42	-13.57
106	0.315	-10.04	4.30	2.15	151	0.046	-26.68	-12.34	-14.49
107	0.253	-11.94	2.40	0.25	152	0.041	-27.67	-13.33	-15.48
108	0.195	-14.19	0.15	-2.00	153	0.036	-28.76	-14.42	-16.57
109	0.143	-16.87	-2.53	-4.68	154	0.032	-29.93	-15.59	-17.74
110	0.099	-20.11	-5.77	-7.92	155	0.027	-31.22	-16.88	-19.03
111	0.065	-23.75	-9.41	-11.56	156	0.023	-32.63	-18.29	-20.44
112	0.050	-26.06	-11.72	-13.87	157	0.020	-34.18	-19.84	-21.99
113	0.056	-24.98	-10.64	-12.79	158	0.016	-35.88	-21.54	-23.69
114	0.072	-22.85	-8.51	-10.66	159	0.013	-37.69	-23.35	-25.50
115	0.087	-21.18	-6.84	-8.99	160	0.011	-39.49	-25.15	-27.30
116	0.099	-20.06	-5.72	-7.87	161	0.009	-41.02	-26.68	-28.83
117	0.107	-19.39	-5.05	-7.20	162	0.008	-41.91	-27.57	-29.72
118	0.111	-19.07	-4.73	-6.88	163	0.008	-42.04	-27.70	-29.85
119	0.112	-19.04	-4.70	-6.85	164	0.008	-41.67	-27.33	-29.48
120	0.109	-19.26	-4.92	-7.07	165	0.009	-41.16	-26.82	-28.97
121	0.103	-19.72	-5.38	-7.53	166	0.009	-40.76	-26.42	-28.57
122	0.096	-20.39	-6.05	-8.20	167	0.009	-40.56	-26.22	-28.37
123	0.086	-21.31	-6.97	-9.12	168	0.009	-40.59	-26.25	-28.40
124	0.075	-22.50	-8.16	-10.31	169	0.009	-40.86	-26.52	-28.67
125	0.063	-24.02	-9.68	-11.83	170	0.009	-41.35	-27.01	-29.16
126	0.050	-25.99	-11.65	-13.80	171	0.008	-42.05	-27.71	-29.86
127	0.037	-28.65	-14.31	-16.46	172	0.007	-42.93	-28.59	-30.74
128	0.024	-32.52	-18.18	-20.33	173	0.006	-43.94	-29.60	-31.75
129	0.011	-38.87	-24.53	-26.68	174	0.006	-44.99	-30.65	-32.80
130	0.009	-41.37	-27.03	-29.18	175	0.005	-45.92	-31.58	-33.73
131	0.019	-34.37	-20.03	-22.18	176	0.005	-46.56	-32.22	-34.37
132	0.031	-30.18	-15.84	-17.99	177	0.005	-46.79	-32.45	-34.60
133	0.042	-27.47	-13.13	-15.28	178	0.005	-46.63	-32.29	-34.44
134	0.053	-25.56	-11.22	-13.37	179	0.005	-46.21	-31.87	-34.02

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2 degree electrical downtilt

Angle	Field	Rel.dB	dBi	dBd	Angle	Field	Rel.dB	dBi	dBd
180	0.005	-45.66	-31.32	-33.47	225	0.006	-43.89	-29.55	-31.70
181	0.006	-45.04	-30.70	-32.85	226	0.005	-45.42	-31.08	-33.23
182	0.006	-44.38	-30.04	-32.19	227	0.005	-46.57	-32.23	-34.38
183	0.007	-43.68	-29.34	-31.49	228	0.004	-47.06	-32.72	-34.87
184	0.007	-42.94	-28.60	-30.75	229	0.005	-46.87	-32.53	-34.68
185	0.008	-42.15	-27.81	-29.96	230	0.005	-46.28	-31.94	-34.09
186	0.009	-41.34	-27.00	-29.15	231	0.005	-45.57	-31.23	-33.38
187	0.009	-40.53	-26.19	-28.34	232	0.006	-44.90	-30.56	-32.71
188	0.010	-39.74	-25.40	-27.55	233	0.006	-44.34	-30.00	-32.15
189	0.011	-39.02	-24.68	-26.83	234	0.006	-43.90	-29.56	-31.71
190	0.012	-38.38	-24.04	-26.19	235	0.007	-43.58	-29.24	-31.39
191	0.013	-37.83	-23.49	-25.64	236	0.007	-43.34	-29.00	-31.15
192	0.013	-37.40	-23.06	-25.21	237	0.007	-43.16	-28.82	-30.97
193	0.014	-37.10	-22.76	-24.91	238	0.007	-43.01	-28.67	-30.82
194	0.014	-36.94	-22.60	-24.75	239	0.007	-42.87	-28.53	-30.68
195	0.014	-36.91	-22.57	-24.72	240	0.007	-42.73	-28.39	-30.54
196	0.014	-37.03	-22.69	-24.84	241	0.007	-42.57	-28.23	-30.38
197	0.014	-37.27	-22.93	-25.08	242	0.008	-42.39	-28.05	-30.20
198	0.013	-37.61	-23.27	-25.42	243	0.008	-42.19	-27.85	-30.00
199	0.013	-38.02	-23.68	-25.83	244	0.008	-41.98	-27.64	-29.79
200	0.012	-38.45	-24.11	-26.26	245	0.008	-41.77	-27.43	-29.58
201	0.011	-38.81	-24.47	-26.62	246	0.008	-41.56	-27.22	-29.37
202	0.011	-39.05	-24.71	-26.86	247	0.009	-41.35	-27.01	-29.16
203	0.011	-39.11	-24.77	-26.92	248	0.009	-41.16	-26.82	-28.97
204	0.011	-39.00	-24.66	-26.81	249	0.009	-40.98	-26.64	-28.79
205	0.012	-38.72	-24.38	-26.53	250	0.009	-40.82	-26.48	-28.63
206	0.012	-38.33	-23.99	-26.14	251	0.009	-40.68	-26.34	-28.49
207	0.013	-37.88	-23.54	-25.69	252	0.009	-40.56	-26.22	-28.37
208	0.014	-37.38	-23.04	-25.19	253	0.009	-40.45	-26.11	-28.26
209	0.014	-36.87	-22.53	-24.68	254	0.010	-40.36	-26.02	-28.17
210	0.015	-36.38	-22.04	-24.19	255	0.010	-40.31	-25.97	-28.12
211	0.016	-35.93	-21.59	-23.74	256	0.010	-40.34	-26.00	-28.15
212	0.017	-35.54	-21.20	-23.35	257	0.009	-40.46	-26.12	-28.27
213	0.017	-35.24	-20.90	-23.05	258	0.009	-40.73	-26.39	-28.54
214	0.018	-35.06	-20.72	-22.87	259	0.009	-41.20	-26.86	-29.01
215	0.018	-35.01	-20.67	-22.82	260	0.008	-41.93	-27.59	-29.74
216	0.018	-35.11	-20.77	-22.92	261	0.007	-42.99	-28.65	-30.80
217	0.017	-35.38	-21.04	-23.19	262	0.006	-44.47	-30.13	-32.28
218	0.016	-35.81	-21.47	-23.62	263	0.005	-46.44	-32.10	-34.25
219	0.015	-36.42	-22.08	-24.23	264	0.004	-48.73	-34.39	-36.54
220	0.014	-37.22	-22.88	-25.03	265	0.003	-50.13	-35.79	-37.94
221	0.012	-38.21	-23.87	-26.02	266	0.004	-48.89	-34.55	-36.70
222	0.011	-39.39	-25.05	-27.20	267	0.005	-46.34	-32.00	-34.15
223	0.009	-40.76	-26.42	-28.57	268	0.006	-43.99	-29.65	-31.80
224	0.008	-42.28	-27.94	-30.09	269	0.008	-42.13	-27.79	-29.94

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270	0.009	-40.70	-26.36	-28.51	315	0.023	-32.77	-18.43	-20.58
271	0.010	-39.63	-25.29	-27.44	316	0.023	-32.67	-18.33	-20.48
272	0.011	-38.82	-24.48	-26.63	317	0.023	-32.73	-18.39	-20.54
273	0.012	-38.24	-23.90	-26.05	318	0.022	-32.97	-18.63	-20.78
274	0.013	-37.82	-23.48	-25.63	319	0.021	-33.37	-19.03	-21.18
275	0.013	-37.55	-23.21	-25.36	320	0.020	-33.94	-19.60	-21.75
276	0.013	-37.40	-23.06	-25.21	321	0.018	-34.69	-20.35	-22.50
277	0.014	-37.36	-23.02	-25.17	322	0.017	-35.61	-21.27	-23.42
278	0.013	-37.44	-23.10	-25.25	323	0.015	-36.73	-22.39	-24.54
279	0.013	-37.66	-23.32	-25.47	324	0.013	-38.05	-23.71	-25.86
280	0.013	-38.06	-23.72	-25.87	325	0.010	-39.59	-25.25	-27.40
281	0.012	-38.68	-24.34	-26.49	326	0.009	-41.32	-26.98	-29.13
282	0.010	-39.59	-25.25	-27.40	327	0.007	-43.20	-28.86	-31.01
283	0.009	-40.84	-26.50	-28.65	328	0.006	-45.08	-30.74	-32.89
284	0.008	-42.47	-28.13	-30.28	329	0.005	-46.72	-32.38	-34.53
285	0.006	-44.25	-29.91	-32.06	330	0.004	-48.00	-33.66	-35.81
286	0.005	-45.23	-30.89	-33.04	331	0.004	-49.09	-34.75	-36.90
287	0.006	-44.25	-29.91	-32.06	332	0.003	-50.48	-36.14	-38.29
288	0.008	-42.06	-27.72	-29.87	333	0.002	-52.86	-38.52	-40.67
289	0.010	-39.88	-25.54	-27.69	334	0.001	-57.69	-43.35	-45.50
290	0.012	-38.08	-23.74	-25.89	335	0.001	-65.57	-51.23	-53.38
291	0.015	-36.69	-22.35	-24.50	336	0.002	-55.28	-40.94	-43.09
292	0.016	-35.68	-21.34	-23.49	337	0.003	-49.46	-35.12	-37.27
293	0.018	-35.00	-20.66	-22.81	338	0.005	-45.90	-31.56	-33.71
294	0.019	-34.61	-20.27	-22.42	339	0.007	-43.48	-29.14	-31.29
295	0.019	-34.52	-20.18	-22.33	340	0.008	-41.80	-27.46	-29.61
296	0.018	-34.70	-20.36	-22.51	341	0.009	-40.64	-26.30	-28.45
297	0.017	-35.16	-20.82	-22.97	342	0.010	-39.91	-25.57	-27.72
298	0.016	-35.92	-21.58	-23.73	343	0.011	-39.52	-25.18	-27.33
299	0.014	-37.01	-22.67	-24.82	344	0.011	-39.40	-25.06	-27.21
300	0.012	-38.49	-24.15	-26.30	345	0.011	-39.49	-25.15	-27.30
301	0.009	-40.46	-26.12	-28.27	346	0.010	-39.71	-25.37	-27.52
302	0.007	-43.13	-28.79	-30.94	347	0.010	-39.95	-25.61	-27.76
303	0.005	-46.69	-32.35	-34.50	348	0.010	-40.10	-25.76	-27.91
304	0.003	-50.12	-35.78	-37.93	349	0.010	-40.07	-25.73	-27.88
305	0.004	-48.56	-34.22	-36.37	350	0.010	-39.80	-25.46	-27.61
306	0.006	-44.73	-30.39	-32.54	351	0.011	-39.29	-24.95	-27.10
307	0.008	-41.68	-27.34	-29.49	352	0.012	-38.60	-24.26	-26.41
308	0.011	-39.37	-25.03	-27.18	353	0.013	-37.81	-23.47	-25.62
309	0.013	-37.59	-23.25	-25.40	354	0.014	-36.97	-22.63	-24.78
310	0.016	-36.18	-21.84	-23.99	355	0.016	-36.15	-21.81	-23.96
311	0.018	-35.06	-20.72	-22.87	356	0.017	-35.38	-21.04	-23.19
312	0.020	-34.18	-19.84	-21.99	357	0.018	-34.70	-20.36	-22.51
313	0.021	-33.52	-19.18	-21.33	358	0.020	-34.11	-19.77	-21.92
314	0.022	-33.05	-18.71	-20.86	359	0.021	-33.62	-19.28	-21.43