

Antenna Project

COMMUNICATIONS TECHNOLOGIES 00304

TX station: *K294CA*

Site Name: *HH Monterey, CA*

Frequency: *106.70 MHz*

Date: *03.06.2015*

General data of antenna System

TX station	K294CA
Site Name	HH Monterey, CA
System of coordinates	Geographic
Longitude	-121°47'21"
Latitude	36°33'08.4"
Ground level a.s.l. (m)	374.4
Antenna system height (m)	22.3
Transmitter power(Watt)	86.000
Carrier wave frequency (MHz)	106.700
Antenna system central frequency (MHz)	98.000
Antenna base diagrams type 1	ALDENA-AST.03.02.335 - tuned Yagi 3 el. band FM
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	1.00
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm)	60.0
Mast cross section (T/Q/C)	T
Structure rotation w.r.t. North (°)	59.0
Mast rotation w.r.t. North (°)	0.0

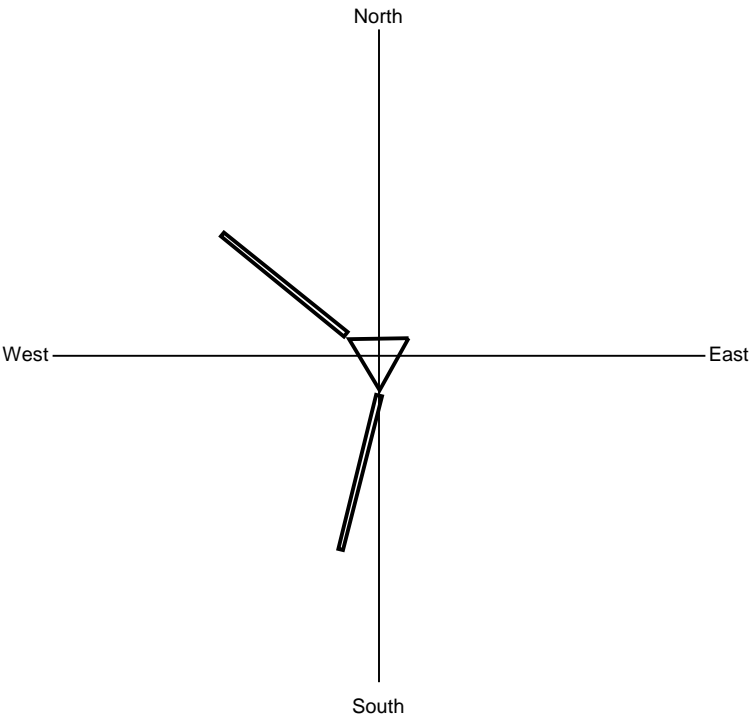
Information about antennas used in the System

	Antenna type 1
Manufacturer	ALDENA
Antenna model	AST.03.02.335 - tune
Band start(MHz)	87.5
Band stop(MHz)	108
diagrams Frequency(MHz)	98
Polariz (H/V/C/X)	V
Vertical dist (cm)	270
Height (cm)	150
Width (cm)	6
Thickness (cm)	160
Weight (Kg)	5.5
Maximum power (KW)	0.6
Gain (dBd)	6.53
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	-28.11
R.C.Phase (°)	0

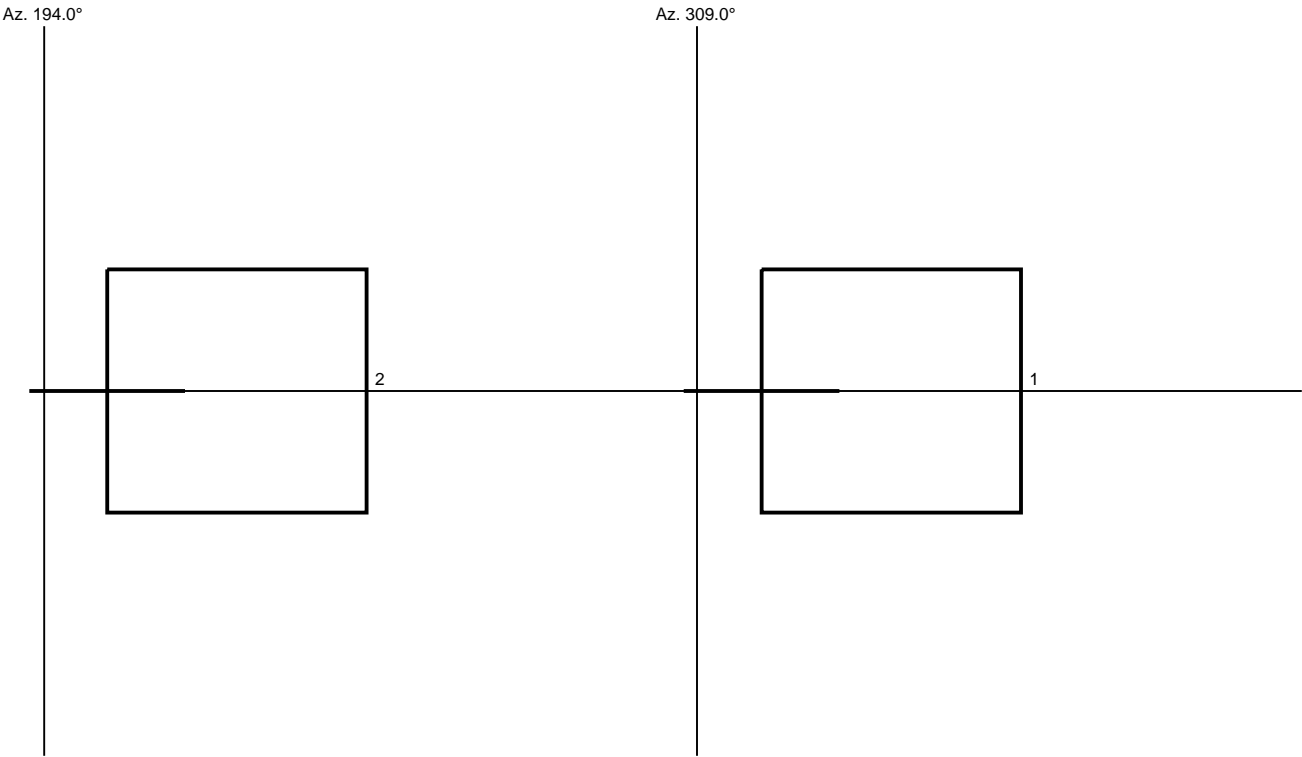
Geometr. and electrical data of antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	50.000	0	250	0	+0.0	0.00	40.0	244.0	1	1	0.0	0.0
2	50.000	0	135	0	+0.0	0.00	40.0	121.0	1	1	0.0	0.0

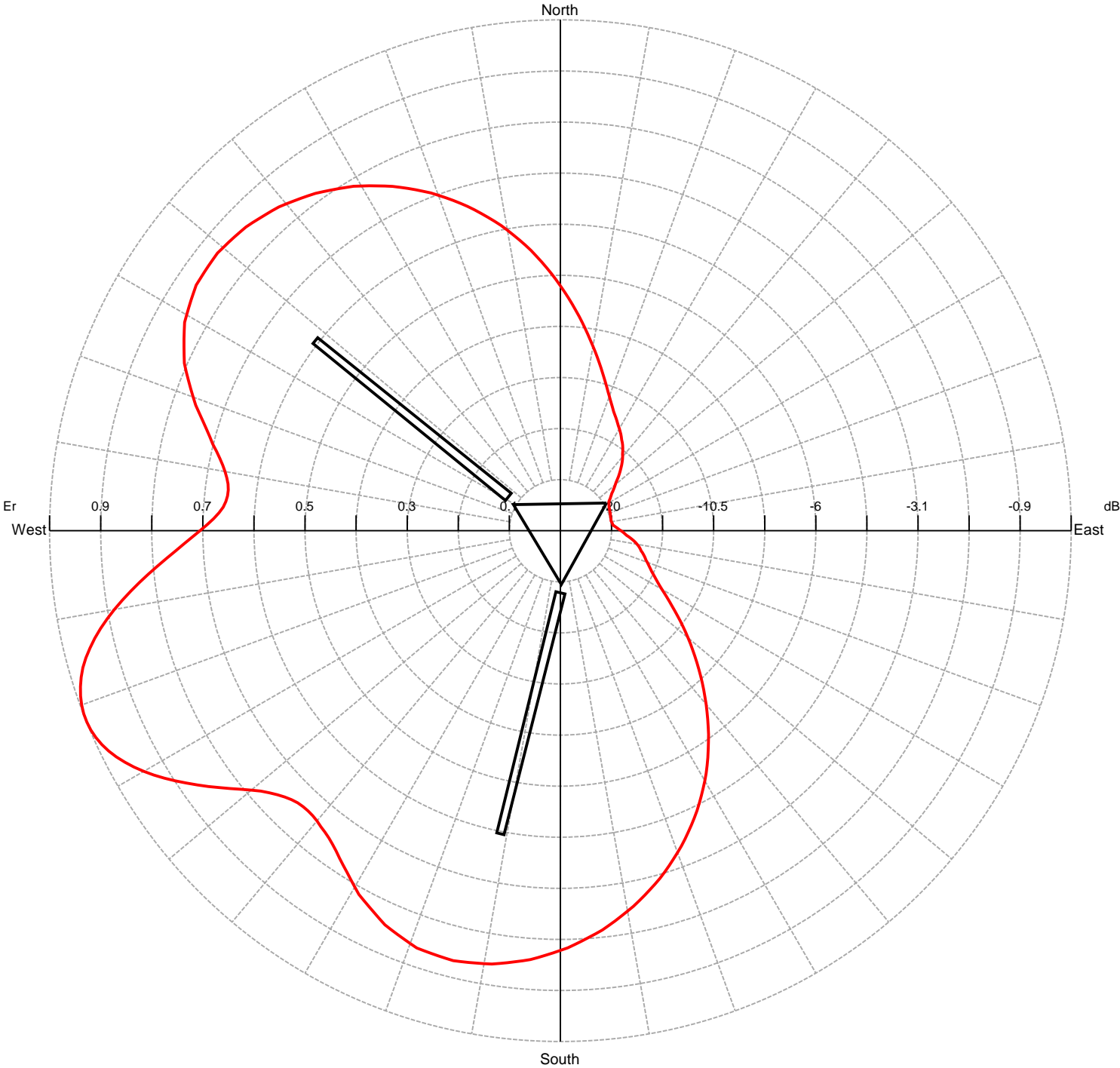
Plan of antenna system



Side of antenna system



Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 4.69 ERP T.Max(KW): 0.253 ERP E.Max(KW): 0.253

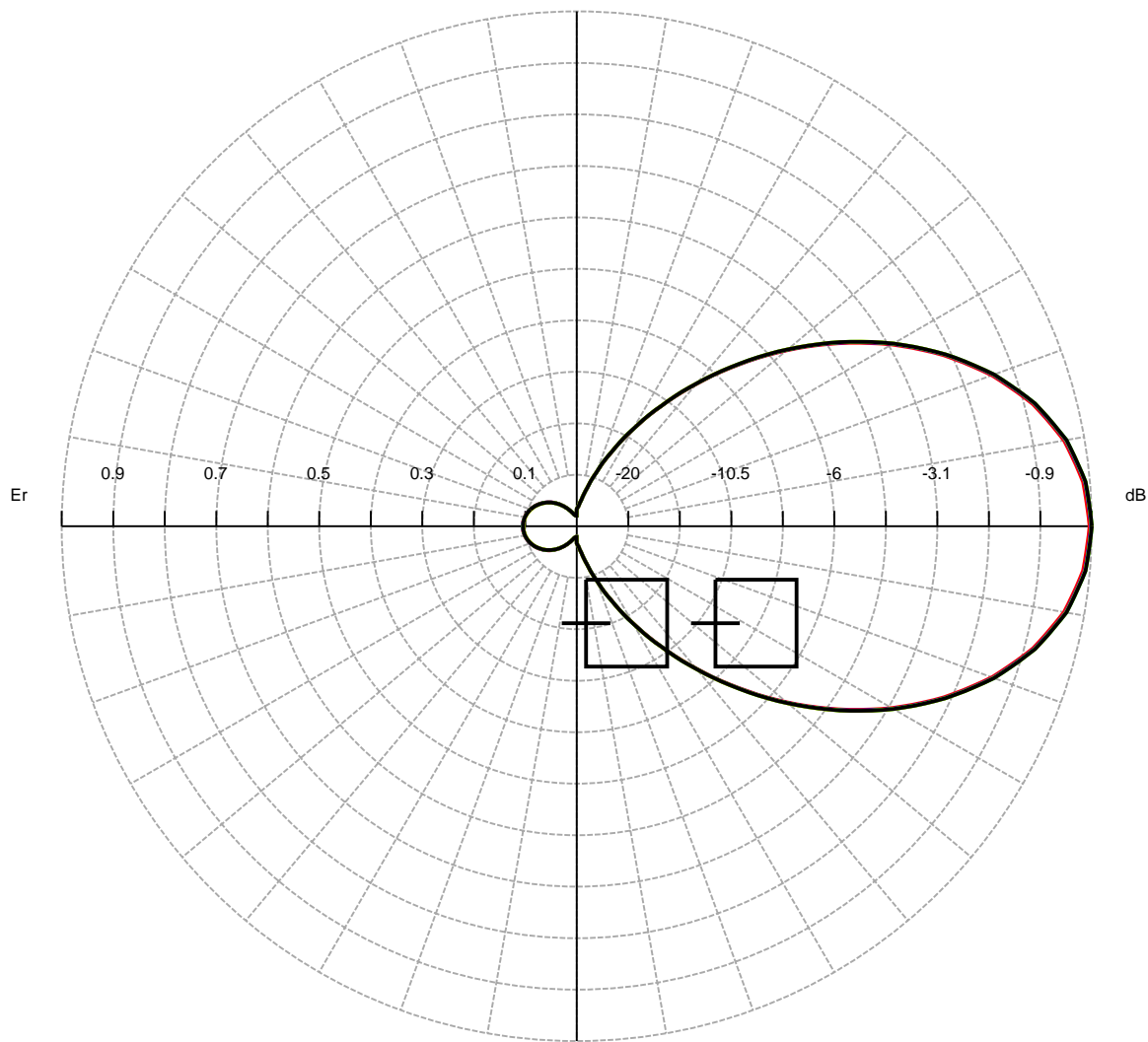
Horizontal diagram at 0.0° depres. (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
0.0	48.0	58.2	60.0	11.0	3.0	120.0	23.0	13.3
1.0	46.8	55.3	61.0	10.9	3.0	121.0	23.8	14.3
2.0	45.6	52.5	62.0	10.8	2.9	122.0	24.6	15.3
3.0	44.4	49.9	63.0	10.7	2.9	123.0	25.5	16.4
4.0	43.2	47.3	64.0	10.6	2.8	124.0	26.4	17.6
5.0	42.1	44.8	65.0	10.5	2.8	125.0	27.3	18.9
6.0	41.0	42.5	66.0	10.5	2.8	126.0	28.3	20.3
7.0	39.9	40.2	67.0	10.5	2.8	127.0	29.4	21.8
8.0	38.8	38.0	68.0	10.4	2.7	128.0	30.4	23.5
9.0	37.7	35.9	69.0	10.4	2.7	129.0	31.5	25.2
10.0	36.7	34.0	70.0	10.4	2.7	130.0	32.6	26.9
11.0	35.7	32.2	71.0	10.3	2.7	131.0	33.7	28.8
12.0	34.7	30.5	72.0	10.3	2.7	132.0	34.8	30.7
13.0	33.8	28.8	73.0	10.2	2.7	133.0	36.0	32.7
14.0	32.8	27.3	74.0	10.2	2.6	134.0	37.1	34.9
15.0	31.9	25.8	75.0	10.2	2.6	135.0	38.3	37.1
16.0	31.1	24.4	76.0	10.2	2.6	136.0	39.5	39.5
17.0	30.2	23.1	77.0	10.1	2.6	137.0	40.7	41.9
18.0	29.4	21.9	78.0	10.1	2.6	138.0	41.9	44.5
19.0	28.7	20.8	79.0	10.1	2.6	139.0	43.1	47.1
20.0	28.0	19.8	80.0	10.2	2.6	140.0	44.4	49.8
21.0	27.3	18.9	81.0	10.2	2.6	141.0	45.6	52.6
22.0	26.7	18.1	82.0	10.3	2.7	142.0	46.8	55.5
23.0	26.1	17.3	83.0	10.3	2.7	143.0	48.1	58.5
24.0	25.6	16.5	84.0	10.3	2.7	144.0	49.3	61.5
25.0	25.1	16.0	85.0	10.6	2.8	145.0	50.5	64.6
26.0	24.7	15.4	86.0	10.8	3.0	146.0	51.7	67.8
27.0	24.3	14.9	87.0	11.1	3.1	147.0	53.0	71.0
28.0	23.9	14.4	88.0	11.3	3.2	148.0	54.2	74.3
29.0	23.4	13.9	89.0	11.5	3.4	149.0	55.4	77.7
30.0	23.1	13.5	90.0	11.9	3.6	150.0	56.5	80.8
31.0	22.7	13.0	91.0	12.2	3.7	151.0	57.6	84.1
32.0	22.3	12.6	92.0	12.4	3.9	152.0	58.8	87.4
33.0	21.9	12.1	93.0	12.7	4.1	153.0	59.9	90.7
34.0	21.5	11.6	94.0	13.0	4.3	154.0	61.0	94.2
35.0	21.1	11.3	95.0	13.4	4.6	155.0	62.0	97.3
36.0	20.7	10.8	96.0	13.8	4.8	156.0	63.0	100.6
37.0	20.3	10.4	97.0	14.2	5.1	157.0	64.1	103.9
38.0	19.8	9.9	98.0	14.6	5.4	158.0	65.1	107.2
39.0	19.3	9.5	99.0	14.9	5.6	159.0	66.1	110.6
40.0	18.9	9.1	100.0	15.3	5.9	160.0	67.0	113.7
41.0	18.5	8.7	101.0	15.6	6.1	161.0	68.0	116.9
42.0	18.1	8.3	102.0	15.8	6.3	162.0	68.9	120.1
43.0	17.6	7.8	103.0	16.1	6.5	163.0	69.8	123.4
44.0	17.0	7.4	104.0	16.3	6.7	164.0	70.8	126.8
45.0	16.6	6.9	105.0	16.6	7.0	165.0	71.6	129.7
46.0	16.0	6.5	106.0	16.9	7.2	166.0	72.4	132.7
47.0	15.5	6.1	107.0	17.2	7.5	167.0	73.3	135.8
48.0	15.0	5.7	108.0	17.5	7.7	168.0	74.1	138.8
49.0	14.4	5.2	109.0	17.7	8.0	169.0	74.9	142.0
50.0	14.0	5.0	110.0	18.1	8.3	170.0	75.6	144.7
51.0	13.6	4.7	111.0	18.4	8.6	171.0	76.4	147.6
52.0	13.2	4.4	112.0	18.8	8.9	172.0	77.1	150.4
53.0	12.8	4.2	113.0	19.2	9.3	173.0	77.8	153.3
54.0	12.4	3.9	114.0	19.5	9.7	174.0	78.6	156.3
55.0	12.2	3.7	115.0	20.0	10.1	175.0	79.2	158.7
56.0	11.9	3.6	116.0	20.5	10.6	176.0	79.8	161.1
57.0	11.6	3.4	117.0	21.0	11.2	177.0	80.4	163.6
58.0	11.3	3.3	118.0	21.6	11.8	178.0	81.0	166.2
59.0	11.1	3.1	119.0	22.2	12.5	179.0	81.7	168.7

Horizontal diagram at 0.0° depres. (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
180.0	82.2	170.8	240.0	94.2	224.5	300.0	84.5	180.7
181.0	82.7	172.9	241.0	95.4	230.4	301.0	84.9	182.3
182.0	83.2	174.9	242.0	96.6	235.9	302.0	85.3	183.9
183.0	83.7	177.1	243.0	97.5	240.8	303.0	85.6	185.5
184.0	84.2	179.2	244.0	98.4	245.0	304.0	86.0	187.2
185.0	84.5	180.7	245.0	99.1	248.3	305.0	86.1	187.5
186.0	84.8	182.2	246.0	99.5	250.7	306.0	86.2	187.8
187.0	85.2	183.6	247.0	99.9	252.3	307.0	86.2	188.1
188.0	85.5	185.1	248.0	100.0	253.0	308.0	86.3	188.5
189.0	85.9	186.7	249.0	100.0	252.8	309.0	86.4	188.8
190.0	86.1	187.4	250.0	99.7	251.7	310.0	86.2	188.1
191.0	86.2	188.1	251.0	99.3	249.7	311.0	86.1	187.4
192.0	86.4	188.9	252.0	98.8	247.0	312.0	85.9	186.7
193.0	86.6	189.6	253.0	98.1	243.5	313.0	85.7	186.1
194.0	86.7	190.3	254.0	97.3	239.3	314.0	85.6	185.4
195.0	86.7	190.0	255.0	96.2	234.0	315.0	85.3	184.0
196.0	86.6	189.7	256.0	94.9	228.0	316.0	84.9	182.6
197.0	86.5	189.4	257.0	93.5	221.4	317.0	84.6	181.2
198.0	86.4	189.1	258.0	92.0	214.3	318.0	84.3	179.9
199.0	86.4	188.8	259.0	90.4	206.7	319.0	84.0	178.5
200.0	86.0	187.1	260.0	88.6	198.8	320.0	83.5	176.5
201.0	85.6	185.4	261.0	86.8	190.7	321.0	83.0	174.5
202.0	85.2	183.8	262.0	84.9	182.5	322.0	82.6	172.5
203.0	84.8	182.1	263.0	83.0	174.4	323.0	82.1	170.5
204.0	84.5	180.5	264.0	81.1	166.4	324.0	81.6	168.6
205.0	83.8	177.8	265.0	79.2	158.6	325.0	81.0	166.1
206.0	83.2	175.1	266.0	77.3	151.1	326.0	80.4	163.7
207.0	82.6	172.5	267.0	75.5	144.1	327.0	79.8	161.3
208.0	82.0	170.0	268.0	73.7	137.6	328.0	79.2	158.9
209.0	81.4	167.6	269.0	72.1	131.6	329.0	78.7	156.6
210.0	80.5	164.0	270.0	70.6	126.0	330.0	77.9	153.7
211.0	79.7	160.6	271.0	69.1	121.0	331.0	77.2	150.8
212.0	78.9	157.3	272.0	67.9	116.8	332.0	76.5	147.9
213.0	78.1	154.2	273.0	66.9	113.4	333.0	75.7	145.1
214.0	77.3	151.3	274.0	66.2	110.8	334.0	75.0	142.3
215.0	76.6	148.3	275.0	65.7	109.4	335.0	74.2	139.2
216.0	75.9	145.7	276.0	65.5	108.6	336.0	73.3	136.1
217.0	75.3	143.6	277.0	65.5	108.6	337.0	72.5	133.0
218.0	74.9	141.9	278.0	65.7	109.3	338.0	71.7	130.0
219.0	74.5	140.6	279.0	66.1	110.6	339.0	70.8	127.0
220.0	74.2	139.1	280.0	66.7	112.4	340.0	69.9	123.6
221.0	73.9	138.2	281.0	67.3	114.8	341.0	68.9	120.2
222.0	73.8	137.9	282.0	68.2	117.5	342.0	68.0	117.0
223.0	73.9	138.1	283.0	69.1	120.8	343.0	67.0	113.7
224.0	74.1	138.8	284.0	70.2	124.5	344.0	66.1	110.5
225.0	74.5	140.3	285.0	71.1	127.8	345.0	65.0	107.0
226.0	75.0	142.5	286.0	72.1	131.4	346.0	64.0	103.6
227.0	75.8	145.3	287.0	73.2	135.4	347.0	63.0	100.3
228.0	76.7	148.8	288.0	74.3	139.7	348.0	61.9	97.0
229.0	77.7	152.8	289.0	75.5	144.3	349.0	60.9	93.7
230.0	79.0	158.0	290.0	76.5	148.1	350.0	59.7	90.3
231.0	80.4	163.7	291.0	77.5	152.0	351.0	58.6	86.9
232.0	82.0	170.0	292.0	78.5	156.0	352.0	57.5	83.5
233.0	83.6	176.7	293.0	79.6	160.2	353.0	56.3	80.3
234.0	85.2	183.6	294.0	80.6	164.3	354.0	55.2	77.0
235.0	86.8	190.5	295.0	81.3	167.2	355.0	54.0	73.7
236.0	88.3	197.4	296.0	82.0	170.1	356.0	52.8	70.4
237.0	89.9	204.4	297.0	82.7	173.1	357.0	51.6	67.3
238.0	91.4	211.4	298.0	83.4	176.1	358.0	50.4	64.2
239.0	92.9	218.2	299.0	84.1	179.1	359.0	49.2	61.2

Vertical diagrams



248.0° Az. (Total Antenna),	Gain (dBd): 4.69
249.0° Az. (Total Antenna),	Gain (dBd): 4.68
248.0° Az. (Total Antenna),	Gain (dBd): 4.69
247.0° Az. (Total Antenna),	Gain (dBd): 4.67
246.0° Az. (Total Antenna),	Gain (dBd): 4.65

ERP T.Max(KW): 0.253	ERP E.Max(KW): 0.253
ERP T.Max(KW): 0.253	ERP E.Max(KW): 0.253
ERP T.Max(KW): 0.253	ERP E.Max(KW): 0.253
ERP T.Max(KW): 0.252	ERP E.Max(KW): 0.252
ERP T.Max(KW): 0.251	ERP E.Max(KW): 0.251

Vertical diagrams

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	253.0	60.0	21.7	11.9	120.0	4.2	0.4
1.0	99.8	252.2	61.0	20.6	10.7	121.0	4.3	0.5
2.0	99.7	251.3	62.0	19.4	9.5	122.0	4.5	0.5
3.0	99.5	250.4	63.0	18.2	8.4	123.0	4.6	0.5
4.0	99.3	249.6	64.0	17.1	7.4	124.0	4.8	0.6
5.0	99.1	248.7	65.0	15.9	6.4	125.0	4.9	0.6
6.0	98.6	246.1	66.0	15.0	5.7	126.0	5.1	0.6
7.0	98.1	243.4	67.0	14.0	5.0	127.0	5.2	0.7
8.0	97.6	240.8	68.0	13.1	4.3	128.0	5.4	0.7
9.0	97.0	238.2	69.0	12.1	3.7	129.0	5.5	0.8
10.0	96.5	235.7	70.0	11.2	3.2	130.0	5.7	0.8
11.0	95.6	231.4	71.0	10.5	2.8	131.0	5.8	0.9
12.0	94.7	227.1	72.0	9.8	2.4	132.0	6.0	0.9
13.0	93.9	222.9	73.0	9.1	2.1	133.0	6.2	1.0
14.0	93.0	218.8	74.0	8.4	1.8	134.0	6.3	1.0
15.0	92.1	214.7	75.0	7.7	1.5	135.0	6.5	1.1
16.0	90.9	209.2	76.0	7.2	1.3	136.0	6.6	1.1
17.0	89.7	203.8	77.0	6.7	1.1	137.0	6.8	1.2
18.0	88.6	198.4	78.0	6.2	1.0	138.0	6.9	1.2
19.0	87.4	193.1	79.0	5.8	0.8	139.0	7.0	1.3
20.0	86.2	187.9	80.0	5.3	0.7	140.0	7.2	1.3
21.0	84.7	181.7	81.0	5.0	0.6	141.0	7.3	1.4
22.0	83.3	175.6	82.0	4.8	0.6	142.0	7.5	1.4
23.0	81.9	169.6	83.0	4.5	0.5	143.0	7.6	1.5
24.0	80.4	163.8	84.0	4.2	0.5	144.0	7.7	1.5
25.0	79.0	158.0	85.0	4.0	0.4	145.0	7.9	1.6
26.0	77.4	151.6	86.0	3.9	0.4	146.0	8.0	1.6
27.0	75.8	145.4	87.0	3.7	0.4	147.0	8.1	1.7
28.0	74.2	139.3	88.0	3.6	0.3	148.0	8.3	1.7
29.0	72.6	133.4	89.0	3.5	0.3	149.0	8.4	1.8
30.0	71.0	127.5	90.0	3.4	0.3	150.0	8.5	1.8
31.0	69.3	121.4	91.0	2.1	0.1	151.0	8.6	1.9
32.0	67.5	115.4	92.0	2.1	0.1	152.0	8.7	1.9
33.0	65.8	109.6	93.0	2.1	0.1	153.0	8.8	2.0
34.0	64.1	103.9	94.0	2.1	0.1	154.0	9.0	2.0
35.0	62.3	98.3	95.0	2.1	0.1	155.0	9.1	2.1
36.0	60.6	92.8	96.0	2.1	0.1	156.0	9.2	2.1
37.0	58.8	87.5	97.0	2.1	0.1	157.0	9.3	2.2
38.0	57.0	82.3	98.0	2.2	0.1	158.0	9.4	2.2
39.0	55.2	77.2	99.0	2.2	0.1	159.0	9.5	2.3
40.0	53.5	72.3	100.0	2.2	0.1	160.0	9.5	2.3
41.0	51.7	67.6	101.0	2.3	0.1	161.0	9.6	2.3
42.0	49.9	63.1	102.0	2.3	0.1	162.0	9.7	2.4
43.0	48.2	58.7	103.0	2.4	0.1	163.0	9.8	2.4
44.0	46.4	54.5	104.0	2.4	0.2	164.0	9.9	2.5
45.0	44.6	50.4	105.0	2.5	0.2	165.0	9.9	2.5
46.0	43.0	46.7	106.0	2.6	0.2	166.0	10.0	2.5
47.0	41.3	43.1	107.0	2.7	0.2	167.0	10.0	2.6
48.0	39.6	39.7	108.0	2.8	0.2	168.0	10.1	2.6
49.0	37.9	36.4	109.0	2.8	0.2	169.0	10.2	2.6
50.0	36.3	33.3	110.0	2.9	0.2	170.0	10.2	2.6
51.0	34.7	30.5	111.0	3.0	0.2	171.0	10.2	2.7
52.0	33.2	27.8	112.0	3.2	0.3	172.0	10.3	2.7
53.0	31.6	25.3	113.0	3.3	0.3	173.0	10.3	2.7
54.0	30.1	22.9	114.0	3.4	0.3	174.0	10.3	2.7
55.0	28.5	20.6	115.0	3.5	0.3	175.0	10.4	2.7
56.0	27.2	18.7	116.0	3.6	0.3	176.0	10.4	2.7
57.0	25.8	16.9	117.0	3.8	0.4	177.0	10.4	2.7
58.0	24.4	15.1	118.0	3.9	0.4	178.0	10.4	2.7
59.0	23.1	13.5	119.0	4.0	0.4	179.0	10.4	2.7

TX station: K294CA
Frequency: 106.70 MHz
Gain solid integration : enabled

Site Name: HH Monterey, CA

Vertical diagrams

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
180.0	10.4	2.7	240.0	4.2	0.4	300.0	21.7	11.9
181.0	10.4	2.7	241.0	4.0	0.4	301.0	23.1	13.5
182.0	10.4	2.7	242.0	3.9	0.4	302.0	24.4	15.1
183.0	10.4	2.7	243.0	3.8	0.4	303.0	25.8	16.9
184.0	10.4	2.7	244.0	3.6	0.3	304.0	27.2	18.7
185.0	10.4	2.7	245.0	3.5	0.3	305.0	28.5	20.6
186.0	10.3	2.7	246.0	3.4	0.3	306.0	30.1	22.9
187.0	10.3	2.7	247.0	3.3	0.3	307.0	31.6	25.3
188.0	10.3	2.7	248.0	3.2	0.3	308.0	33.2	27.8
189.0	10.2	2.7	249.0	3.0	0.2	309.0	34.7	30.5
190.0	10.2	2.6	250.0	2.9	0.2	310.0	36.3	33.3
191.0	10.2	2.6	251.0	2.8	0.2	311.0	37.9	36.4
192.0	10.1	2.6	252.0	2.8	0.2	312.0	39.6	39.7
193.0	10.0	2.6	253.0	2.7	0.2	313.0	41.3	43.1
194.0	10.0	2.5	254.0	2.6	0.2	314.0	43.0	46.7
195.0	9.9	2.5	255.0	2.5	0.2	315.0	44.6	50.4
196.0	9.9	2.5	256.0	2.4	0.2	316.0	46.4	54.5
197.0	9.8	2.4	257.0	2.4	0.1	317.0	48.2	58.7
198.0	9.7	2.4	258.0	2.3	0.1	318.0	49.9	63.1
199.0	9.6	2.3	259.0	2.3	0.1	319.0	51.7	67.6
200.0	9.5	2.3	260.0	2.2	0.1	320.0	53.5	72.3
201.0	9.5	2.3	261.0	2.2	0.1	321.0	55.2	77.2
202.0	9.4	2.2	262.0	2.2	0.1	322.0	57.0	82.3
203.0	9.3	2.2	263.0	2.1	0.1	323.0	58.8	87.5
204.0	9.2	2.1	264.0	2.1	0.1	324.0	60.6	92.8
205.0	9.1	2.1	265.0	2.1	0.1	325.0	62.3	98.3
206.0	9.0	2.0	266.0	2.1	0.1	326.0	64.1	103.9
207.0	8.8	2.0	267.0	2.1	0.1	327.0	65.8	109.6
208.0	8.7	1.9	268.0	2.1	0.1	328.0	67.5	115.4
209.0	8.6	1.9	269.0	2.1	0.1	329.0	69.3	121.4
210.0	8.5	1.8	270.0	3.4	0.3	330.0	71.0	127.5
211.0	8.4	1.8	271.0	3.5	0.3	331.0	72.6	133.4
212.0	8.3	1.7	272.0	3.6	0.3	332.0	74.2	139.3
213.0	8.1	1.7	273.0	3.7	0.4	333.0	75.8	145.4
214.0	8.0	1.6	274.0	3.9	0.4	334.0	77.4	151.6
215.0	7.9	1.6	275.0	4.0	0.4	335.0	79.0	158.0
216.0	7.7	1.5	276.0	4.2	0.5	336.0	80.4	163.8
217.0	7.6	1.5	277.0	4.5	0.5	337.0	81.9	169.6
218.0	7.5	1.4	278.0	4.8	0.6	338.0	83.3	175.6
219.0	7.3	1.4	279.0	5.0	0.6	339.0	84.7	181.7
220.0	7.2	1.3	280.0	5.3	0.7	340.0	86.2	187.9
221.0	7.0	1.3	281.0	5.8	0.8	341.0	87.4	193.1
222.0	6.9	1.2	282.0	6.2	1.0	342.0	88.6	198.4
223.0	6.8	1.2	283.0	6.7	1.1	343.0	89.7	203.8
224.0	6.6	1.1	284.0	7.2	1.3	344.0	90.9	209.2
225.0	6.5	1.1	285.0	7.7	1.5	345.0	92.1	214.7
226.0	6.3	1.0	286.0	8.4	1.8	346.0	93.0	218.8
227.0	6.2	1.0	287.0	9.1	2.1	347.0	93.9	222.9
228.0	6.0	0.9	288.0	9.8	2.4	348.0	94.7	227.1
229.0	5.8	0.9	289.0	10.5	2.8	349.0	95.6	231.4
230.0	5.7	0.8	290.0	11.2	3.2	350.0	96.5	235.7
231.0	5.5	0.8	291.0	12.1	3.7	351.0	97.0	238.2
232.0	5.4	0.7	292.0	13.1	4.3	352.0	97.6	240.8
233.0	5.2	0.7	293.0	14.0	5.0	353.0	98.1	243.4
234.0	5.1	0.6	294.0	15.0	5.7	354.0	98.6	246.1
235.0	4.9	0.6	295.0	15.9	6.4	355.0	99.1	248.7
236.0	4.8	0.6	296.0	17.1	7.4	356.0	99.3	249.6
237.0	4.6	0.5	297.0	18.2	8.4	357.0	99.5	250.4
238.0	4.5	0.5	298.0	19.4	9.5	358.0	99.7	251.3
239.0	4.3	0.5	299.0	20.6	10.7	359.0	99.8	252.2