

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: SantaMaria14d0,2kwinceltiat90fA1, Model: Longley-Rice

Start: 2022.05.03 06:09:58

Study created: 2022.05.03 06:09:58

Study build station data: LMS TV 2022-05-03

Proposal: K14TK-D D14 LD CP SANTA MARIA, CA

Facility ID: 185683

Station data: User record

Record ID: 2021

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KXBF-LD	D14	LD	LIC	BAKERSFIELD, CA	BLDTL20130821ACC	151.7 km
No	KJEO-LD	D14	LD	LIC	FRESNO, CA	BLANK0000093724	227.3
No	K14TG-D	D14	LD	CP	MONTEREY, CA	BLANK00000184760	213.0
No	K14TG-D	D14	LD	LIC	MONTEREY, CA	BLANK00000178389	213.0
No	K14AT-D	D14	LD	LIC	RIDGECREST, CA	BLDTT20120221ABF	261.8
No	KSAO-LD	D14	LD	LIC	SACRAMENTO, CA	BLANK00000112334	414.5
No	K14SQ-D	D14	LD	CP	SAN BERNARDINO, CA	BMJADTL20100524ADD	385.8
No	K14SQ-D	D14	LD	LIC	SAN BERNARDINO, CA	BLANK00000179356	385.8
No	KQTA-LD	D14	LD	CP	San Francisco, CA	BLANK00000075058	357.7
No	KDTS-LD	D14	LD	CP	SAN FRANCISCO, CA	BLANK00000115857	357.7
No	KMMC-LD	D14	LD	CP	SAN FRANCISCO, CA	BLANK00000074648	357.7
No	KMMW-LD	D14	LD	LIC	STOCKTON, CA	BLANK00000125019	352.8
No	KTLD-CD	D15	DC	LIC	BAKERSFIELD, CA	BLANK00000001629	168.1
No	KFVD-LD	D15	LD	LIC	PORTERVILLE, CA	BLANK00000185310	178.9
No	KFVD-LD	D15	LD	APP	PORTERVILLE, CA	BLANK00000187008	178.9
No	KSBY	D15	DT	LIC	SAN LUIS OBISPO, CA	BLCDT20081118AEW	47.9

Non-directional AM stations within 0.8 km:

KSMA 1240 L ND1 U SANTA MARIA, CA BL19810714AA

KSBQ 1480 L ND1 D SANTA MARIA, CA BL8744

KSBQ 1480 L ND1 N SANTA MARIA, CA BL8744

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14  
Mask: Full Service  
Latitude: 34 57 1.34 N (NAD83)  
Longitude: 120 29 31.98 W  
Height AMSL: 62.0 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 0.200 kW  
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 90.0 deg  
Elev Pattn: Generic

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-49.0 m	2.3 km
45.0	0.043	-123.8	8.7
90.0	0.200	-66.1	12.7
135.0	0.040	-75.6	8.6
180.0	0.000	-83.9	2.2
225.0	0.002	-94.3	3.8
270.0	0.000	37.6	3.2
315.0	0.001	35.7	3.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: -52 m

Distance to Canadian border: 1496.7 km

Distance to Mexican border: 383.5 km

Conditions at FCC monitoring station: Livermore CA

Bearing: 340.2 degrees    Distance: 328.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 62.3 degrees    Distance: 1458.3 km

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

Interference to proposal scenario 1  
6.52% interference received

Desired:	Call K14TK-D	Chan D14	Svc LD	Status CP	City, State SANTA MARIA, CA	File Number	Distance
Undesireds:	K14TG-D	D14	LD	CP	MONTEREY, CA	BLANK0000184760	213.0 km
	KSBY	D15	DT	LIC	SAN LUIS OBISPO, CA	BLCDT20081118AEW	47.9
	Service area			Terrain-limited		IX-free	Percent IX
	139.0 102,385			139.0 102,385	121.0	95,712	12.95 6.52
Undesired				Total IX		Unique IX	Prcnt Unique IX
KSBY D15 DT LIC				18.0 6,673	18.0	6,673	12.95 6.52