

Channel Study

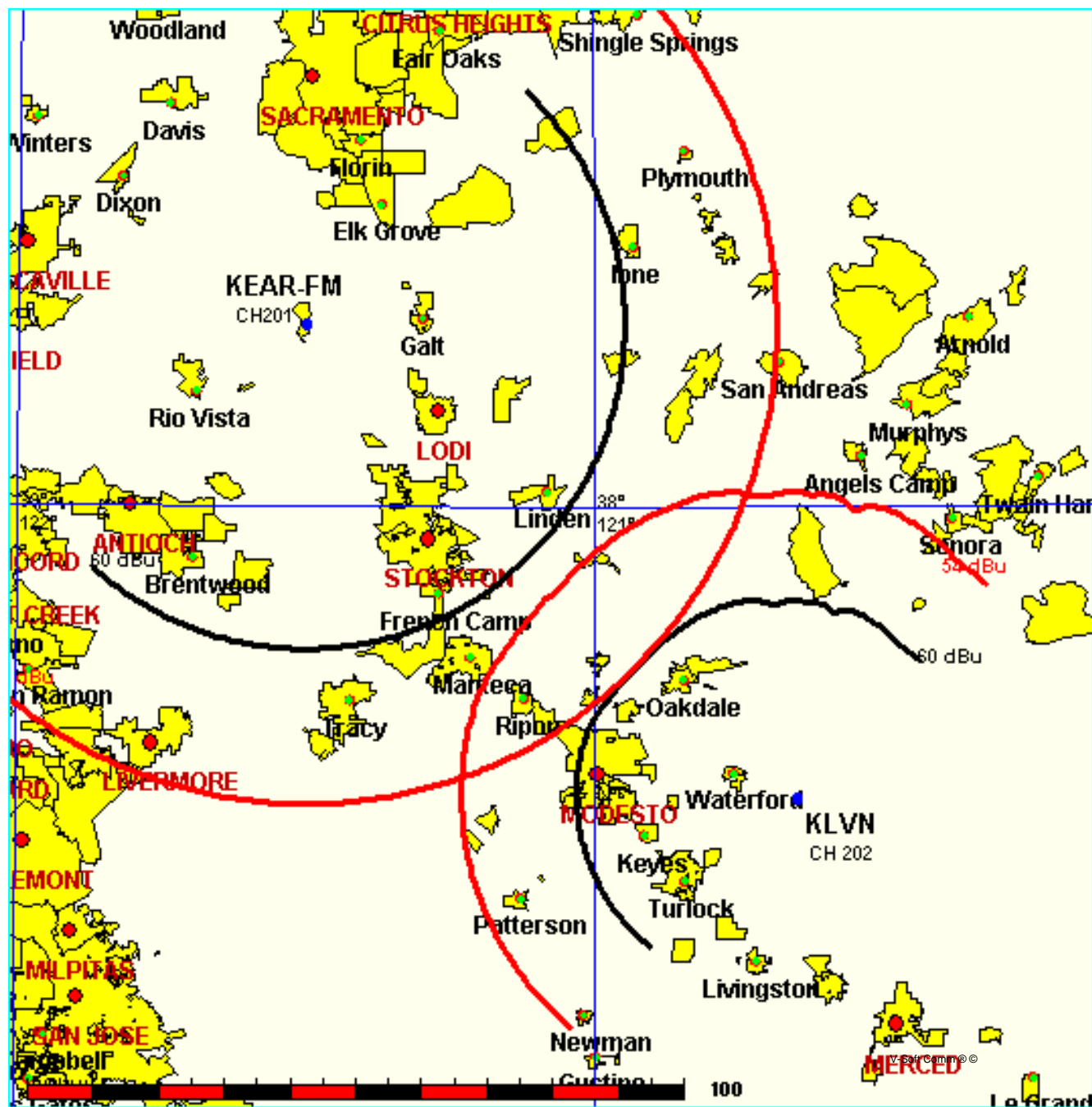
REFERENCE		CH# 202B1- 88.3 MHz, Pwr= 7.5 kW, HAAT= 104.5 M, COR= 169 M						DISPLAY DATES			
37 36 31.0 N.		Average Protected F(50-50)= 30.4 km						DATA 06-25-09			
120 39 02.0 W.								SEARCH 06-27-09			
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
202B1 Livingston	KLVN	LIC	EX CA	0.0 0.0	0.00 BLED20020503ABH	37 36 31.0 120 39 02.0	6.100 102	85.3 161	27.1 Educational Media Foundati	-114.92*	-117.14*
06Z2E Sacramento	KVIE	LI	HN CA	314.8 134.2	105.23 BLET20030328ANE	38 16 18.0 121 30 22.0	100.000 550		124.6 Kvie, Inc.	180.6R	-75.4M
201B Sacramento	KEAR-FM	LIC	V CA	313.9 133.3	103.02 BLED19970602KC	38 14 50.0 121 30 03.0	8.400 303	71.8 305	48.6 Family Stations, Inc.	0.29	6.63
204B Modesto	KMPO	LIC	CN CA	98.4 278.8	55.92 BLED19840213AO	37 32 00.0 120 01 29.0	2.050 622	3.0 1311	52.6 Radio Bilingue, Inc.	24.59	0.51
203B San Francisco	KQED-FM	LIC	C CA	273.8 92.7	157.91 BLED19971124KD	37 41 23.0 122 26 13.0	110.000 387	123.5 432	83.0 Northern California Public	0.87	23.86
201B Fresno	KFCF	LIC	CN CA	118.5 299.3	123.35 BLED19800318AE	37 04 23.0 119 25 51.0	2.400 579	87.4 1409	58.9 Fresno Free College Founda	7.24	19.86
202B Coalinga	KDKL	LIC	DV CA	179.7 359.7	137.49 BLED20001221ABA	36 22 11.0 120 38 37.0	1.400 717	84.1 1623	27.0 Educational Media Foundati	22.42	18.83
202A Camino	KYCJ	LIC	VX CA	357.9 177.9	125.48 BLED20050829AAI	38 44 18.0 120 42 10.0	0.050 155	46.4 930	13.9 Your Christian Companion N	49.59	21.66
202A Camino	KYCJ	CP	VX CA	358.0 177.9	125.48 BPED20090603AAA	38 44 18.0 120 42 08.0	0.055 136	45.8 912	13.7 Your Christian Companion N	50.16	21.84
255A Columbia	KCVR-FM	LIC	CN CA	27.4 207.6	53.71 BLH19960509KC	38 02 15.0 120 22 05.0	6.000 100	0.0 818	0.0 Entravision Holdings, Llc	11.5R	42.2M
205B Sacramento	KXPR	LIC	DCN CA	314.9 134.4	105.18 BLED19950926KB	38 16 25.0 121 30 11.0	50.000 150	5.9 152	52.1 California State Universit	68.36	50.08
205B Sacramento	KXPR	APP	CX CA	335.7 155.4	110.19 BPED20070518AAY	38 30 42.1 121 10 19.1	35.000 133	5.1 191	46.7 California State Universit	74.34	60.52
203B Selma	KQKL	LIC	DCX CA	144.4 325.0	158.21 BMLLED20050518AAE	36 26 50.0 119 37 10.0	50.000 150	65.2 219	43.9 Educational Media Foundati	62.95	67.72
06+2C San Luis Obispo	KSBY	LI	N CA	180.1 0.1	249.49 BMLCT19860228KG	35 21 37.0 120 39 18.0	100.000 543		122.0 Ksby Communications, Inc.	178.1R	71.4M

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
ERP and HAAT on direct-line with reference station.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),Beamtilt(Y,N,X)
""affixed to 'IN' or 'OUT' values = site inside protected contour.

FMCommander Single Allocation Study
06-09-2009

KLVN CH 202 B1
7.5 kW 169 M COR
Prot. = 60 dBu
Intef. = 54 dBu

KEAR-FM CH 201 B BLED19970602KC
8.4 kW, 305 M COR
Prot. = 60 dBu
Intef. = 54 dBu



KLVN vs. KEAR-FM

06-09-2009 NGDC 30 SEC Terrain Data FMOver Analysis

KLVN
Channel = 202B1
Max ERP = 7.5 kW
RCAMSL = 169 M
N. Lat. 37 36 31.0
W. Lng. 120 39 02.0
Protected
60 dBu

KEAR-FM BLED19970602KC
Channel = 201B
Max ERP = 8.4 kW
RCAMSL = 305 M
N. Lat. 38 14 50.0
W. Lng. 121 30 03.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
287.0	007.5000	0127.6	033.3	144.9	008.4000	0304.4	074.7	53.08
288.0	007.5000	0127.2	033.2	144.5	008.4000	0304.3	074.4	53.18
289.0	007.5000	0126.5	033.2	144.2	008.4000	0304.2	074.1	53.27
290.0	007.5000	0125.6	033.1	143.7	008.4000	0304.1	073.8	53.36
291.0	007.5000	0124.6	033.0	143.3	008.4000	0304.0	073.6	53.43
292.0	007.5000	0123.5	032.8	142.9	008.4000	0303.9	073.4	53.50
293.0	007.5000	0122.4	032.7	142.5	008.4000	0303.8	073.2	53.55
294.0	007.5000	0121.3	032.6	142.0	008.4000	0303.6	073.1	53.61
295.0	007.5000	0120.3	032.5	141.6	008.4000	0303.5	072.9	53.66
296.0	007.5000	0119.2	032.3	141.1	008.4000	0303.4	072.8	53.70
297.0	007.5000	0118.2	032.2	140.7	008.4000	0303.3	072.7	53.74
298.0	007.5000	0117.3	032.1	140.2	008.4000	0303.2	072.6	53.77
299.0	007.5000	0116.4	032.0	139.8	008.4000	0303.1	072.5	53.81
300.0	007.5000	0115.6	031.9	139.4	008.4000	0303.0	072.3	53.84
301.0	007.5000	0115.0	031.8	138.9	008.4000	0303.0	072.2	53.88
302.0	007.5000	0114.3	031.7	138.5	008.4000	0302.9	072.2	53.90
303.0	007.5000	0113.8	031.6	138.0	008.4000	0302.9	072.1	53.93
304.0	007.5000	0113.2	031.6	137.6	008.4000	0302.8	072.0	53.95
305.0	007.5000	0112.7	031.5	137.2	008.4000	0302.8	072.0	53.97
306.0	007.5000	0112.2	031.4	136.7	008.4000	0302.7	071.9	53.99
307.0	007.5000	0111.5	031.3	136.3	008.4000	0302.7	071.9	53.99
308.0	007.5000	0110.7	031.2	135.8	008.4000	0302.7	071.9	53.98
309.0	007.5000	0109.9	031.1	135.4	008.4000	0302.6	072.0	53.97
310.0	007.5000	0109.2	031.0	135.0	008.4000	0302.6	072.0	53.95
311.0	007.5000	0108.6	031.0	134.5	008.4000	0302.5	072.0	53.94
312.0	007.5000	0108.3	030.9	134.1	008.4000	0302.5	072.0	53.93
313.0	007.5000	0108.1	030.9	133.7	008.4000	0302.5	072.1	53.93
314.0	007.5000	0108.0	030.9	133.2	008.4000	0302.4	072.1	53.92
315.0	007.5000	0108.0	030.9	132.8	008.4000	0302.4	072.1	53.92
316.0	007.5000	0108.0	030.9	132.4	008.4000	0302.4	072.1	53.91
317.0	007.5000	0108.0	030.9	132.0	008.4000	0302.3	072.1	53.89
318.0	007.5000	0108.0	030.9	131.5	008.4000	0302.3	072.2	53.87
319.0	007.5000	0108.0	030.9	131.1	008.4000	0302.3	072.3	53.85
320.0	007.5000	0108.0	030.9	130.7	008.4000	0302.2	072.3	53.82
321.0	007.5000	0108.0	030.9	130.3	008.4000	0302.2	072.4	53.79
322.0	007.5000	0108.0	030.9	129.8	008.4000	0302.1	072.5	53.75
323.0	007.5000	0108.0	030.9	129.4	008.4000	0302.1	072.7	53.70
324.0	007.5000	0108.0	030.9	129.0	008.4000	0302.0	072.8	53.66
325.0	007.5000	0108.0	030.9	128.6	008.4000	0302.0	072.9	53.60
326.0	007.5000	0108.0	030.9	128.2	008.4000	0301.9	073.1	53.55
327.0	007.5000	0108.0	030.9	127.8	008.4000	0301.9	073.3	53.49
328.0	007.5000	0108.0	030.9	127.4	008.4000	0301.8	073.4	53.42

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Exhibit 16-A1
Livingston, CA

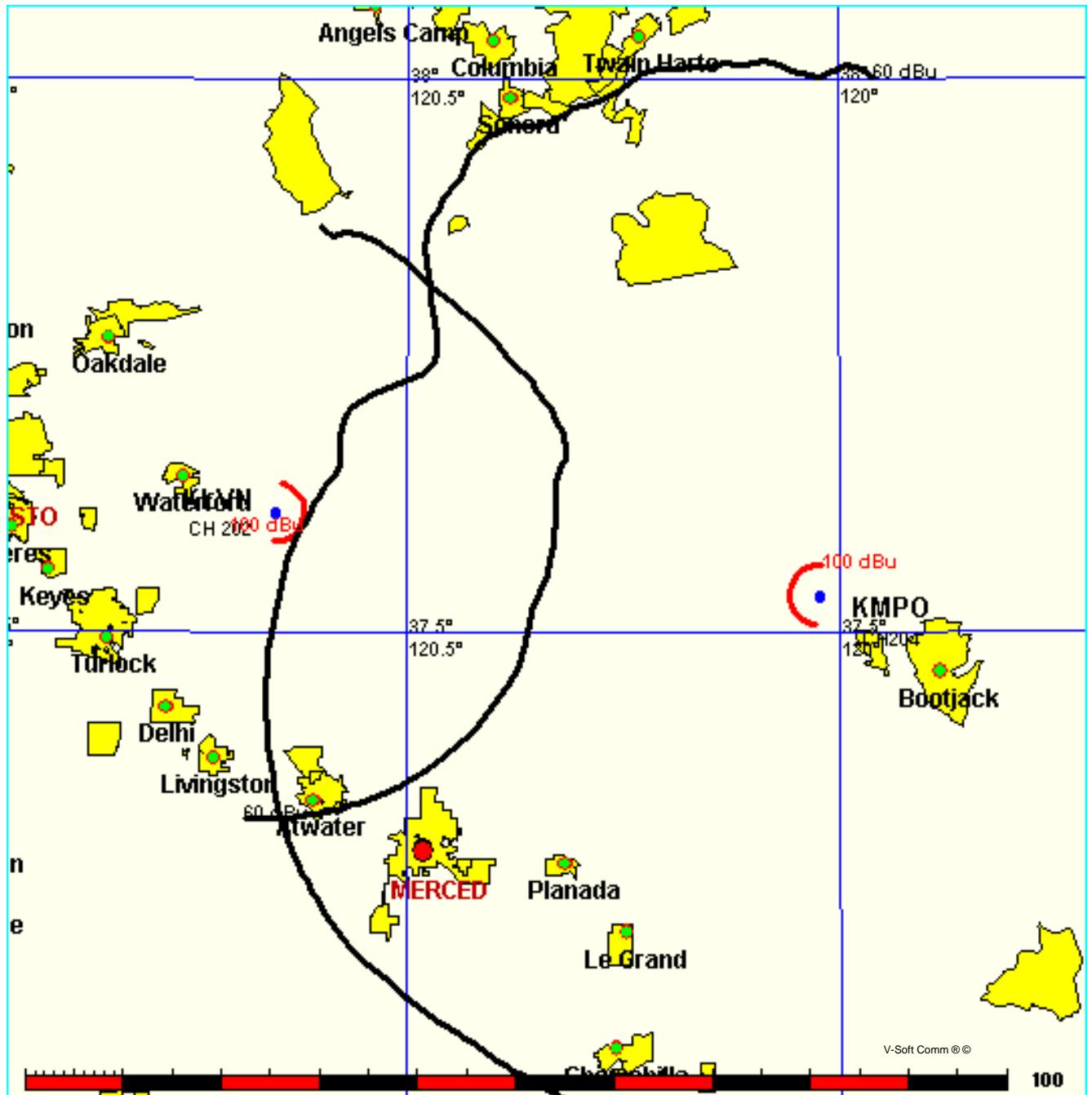
329.0	007.5000	0108.0	030.9	127.0	008.4000	0301.7	073.6	53.35
330.0	007.5000	0108.0	030.9	126.6	008.4000	0301.7	073.8	53.28
331.0	007.5000	0108.0	030.9	126.2	008.4000	0301.6	074.1	53.20
332.0	007.5000	0108.0	030.9	125.9	008.4000	0301.6	074.3	53.12
333.0	007.5000	0107.8	030.9	125.5	008.4000	0301.6	074.6	53.03
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Exhibit 16 - B

FMCommander Single Allocation Study
06-09-2009

KLVN CH 202 B1
7.5 kW 169 M COR
Prot. = 60 dBu
Intef. = 100 dBu

KMPO CH 204 B BLED19840213AO
2.05 kW, 1311 M COR
Prot. = 60 dBu
Intef. = 100 dBu



KMPO vs. KLVN

06-09-2009 NGDC 30 SEC Terrain Data

KMPO BLED19840213AO
Channel = 204B
Max ERP = 2.05 kW
RCAMSL = 1311 M
N. Lat. 37 32 00.0
W. Lng. 120 01 29.0
Protected
60 dBu

KLVN
Channel = 202B1
Max ERP = 7.5 kW
RCAMSL = 169 M
N. Lat. 37 36 31.0
W. Lng. 120 39 02.0
Interfering
100 dBu

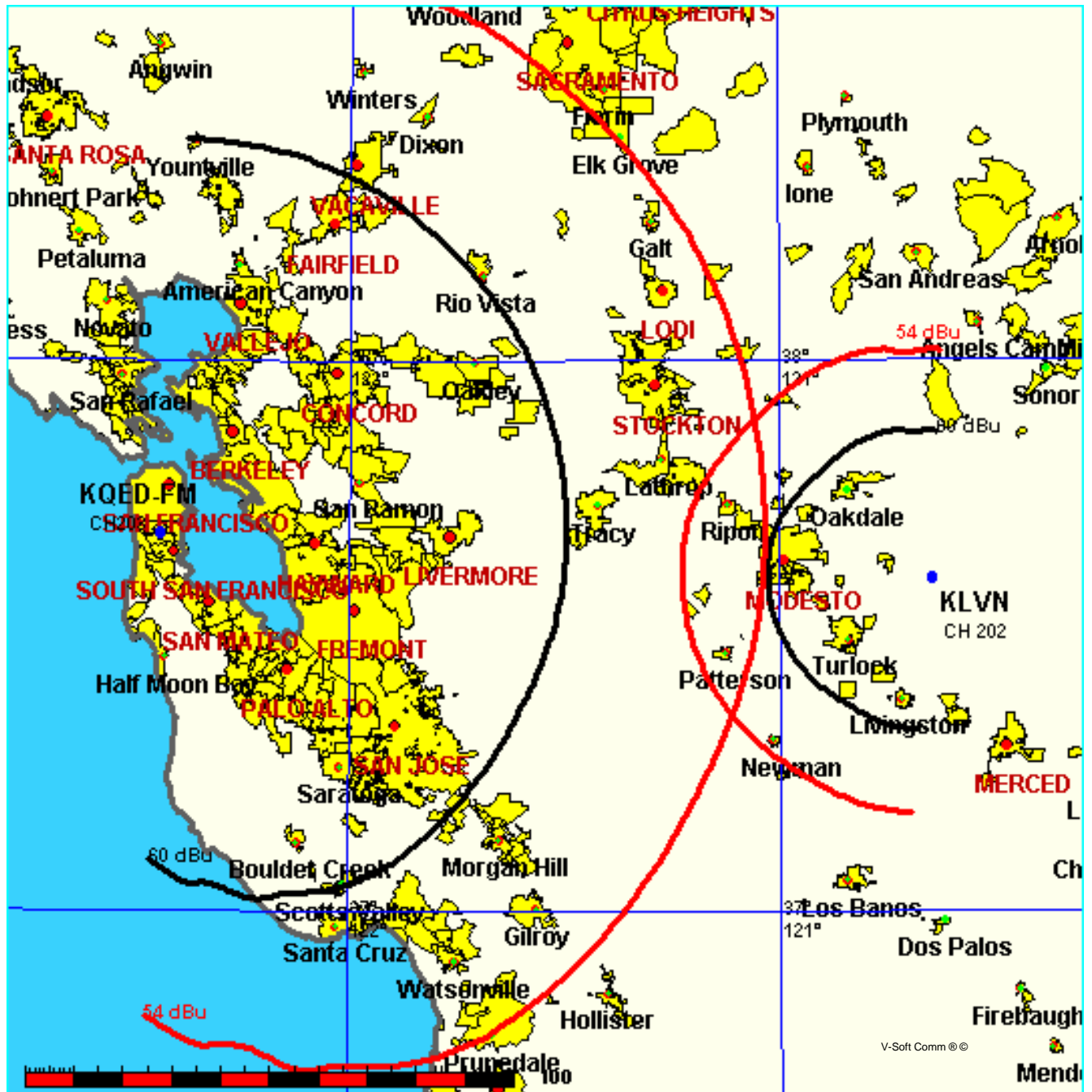
Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
269.0	002.0500	0703.5	055.2	179.4	007.5000	0108.4	009.3	81.24
270.0	002.0500	0694.9	054.9	177.6	007.5000	0108.0	008.4	83.07
271.0	002.0500	0689.9	054.8	175.9	007.5000	0107.4	007.4	85.10
272.0	002.0500	0684.8	054.6	173.7	007.5000	0106.8	006.5	87.49
273.0	002.0500	0679.6	054.4	170.4	007.5000	0106.6	005.6	90.13
274.0	002.0500	0673.7	054.2	165.5	007.5000	0105.7	004.7	92.79
275.0	002.0500	0666.0	054.0	157.5	007.5000	0104.6	004.0	95.54
276.0	002.0500	0655.4	053.6	144.5	007.5000	0101.9	003.4	97.79
277.0	002.0500	0645.4	053.2	127.7	007.5000	0097.3	003.1	99.01
278.0	002.0500	0635.7	052.9	109.1	007.5000	0087.3	003.1	98.22
279.0	002.0500	0626.3	052.6	092.3	007.5000	0091.0	003.4	97.05
280.0	002.0500	0617.5	052.2	079.3	007.5000	0101.9	003.9	95.62
281.0	002.0500	0608.6	051.9	070.1	007.5000	0100.3	004.6	92.85
282.0	002.0500	0598.9	051.5	063.9	007.5000	0095.9	005.4	89.80
283.0	002.0500	0587.9	051.1	059.9	007.5000	0092.4	006.3	86.70
284.0	002.0500	0578.7	050.7	056.8	007.5000	0089.7	007.2	84.01
285.0	002.0500	0574.8	050.6	053.4	007.5000	0088.7	008.0	82.12
286.0	002.0500	0578.1	050.7	049.0	007.5000	0087.9	008.6	80.79

Exhibit 16 - C

FMCommander Single Allocation Study
06-09-2009

KLVN CH 202 B1
7.5 kW 169 M COR
Prot. = 60 dBu
Intef. = 54 dBu

KQED-FM CH 203 B BLED19971124KD
110.0 kW, 432 M COR
Prot. = 60 dBu
Intef. = 54 dBu



KLVN vs. KQED-FM

06-09-2009 NGDC 30 SEC Terrain Data FMOver Analysis

KLVN
Channel = 202B1
Max ERP = 7.5 kW
RCAMSL = 169 M
N. Lat. 37 36 31.0
W. Lng. 120 39 02.0
Protected
60 dBu

KQED-FM BLED19971124KD
Channel = 203B
Max ERP = 110 kW
RCAMSL = 432 M
N. Lat. 37 41 23.0
W. Lng. 122 26 13.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
254.0	007.5000	0126.7	033.2	097.8	110.0000	0430.6	127.1	53.06
255.0	007.5000	0127.0	033.2	097.6	110.0000	0430.6	126.9	53.13
256.0	007.5000	0127.3	033.3	097.3	110.0000	0430.6	126.6	53.20
257.0	007.5000	0127.7	033.3	097.1	110.0000	0430.6	126.4	53.26
258.0	007.5000	0128.0	033.3	096.9	110.0000	0430.7	126.1	53.32
259.0	007.5000	0128.3	033.4	096.6	110.0000	0430.7	125.9	53.38
260.0	007.5000	0128.6	033.4	096.4	110.0000	0430.7	125.7	53.43
261.0	007.5000	0128.7	033.4	096.1	110.0000	0430.7	125.5	53.48
262.0	007.5000	0128.9	033.4	095.9	110.0000	0430.8	125.3	53.52
263.0	007.5000	0129.0	033.5	095.6	110.0000	0430.8	125.2	53.56
264.0	007.5000	0129.1	033.5	095.3	110.0000	0430.8	125.0	53.60
265.0	007.5000	0129.1	033.5	095.1	110.0000	0430.8	124.9	53.63
266.0	007.5000	0129.3	033.5	094.8	110.0000	0430.9	124.8	53.66
267.0	007.5000	0129.4	033.5	094.5	110.0000	0430.9	124.7	53.69
268.0	007.5000	0129.5	033.5	094.3	110.0000	0430.9	124.6	53.71
269.0	007.5000	0129.6	033.5	094.0	110.0000	0430.9	124.5	53.74
270.0	007.5000	0129.7	033.5	093.7	110.0000	0430.9	124.4	53.75
271.0	007.5000	0129.8	033.5	093.5	110.0000	0431.0	124.4	53.77
272.0	007.5000	0129.8	033.6	093.2	110.0000	0431.0	124.4	53.78
273.0	007.5000	0129.9	033.6	092.9	110.0000	0431.0	124.3	53.78
274.0	007.5000	0129.9	033.6	092.7	110.0000	0431.0	124.3	53.78
275.0	007.5000	0130.0	033.6	092.4	110.0000	0431.1	124.3	53.78
276.0	007.5000	0130.0	033.6	092.1	110.0000	0431.1	124.4	53.78
277.0	007.5000	0130.0	033.6	091.8	110.0000	0431.1	124.4	53.77
278.0	007.5000	0130.0	033.6	091.6	110.0000	0431.1	124.4	53.76
279.0	007.5000	0129.9	033.6	091.3	110.0000	0431.1	124.5	53.74
280.0	007.5000	0129.8	033.5	091.0	110.0000	0431.2	124.6	53.72
281.0	007.5000	0129.7	033.5	090.8	110.0000	0431.2	124.7	53.70
282.0	007.5000	0129.6	033.5	090.5	110.0000	0431.2	124.8	53.67
283.0	007.5000	0129.3	033.5	090.2	110.0000	0431.2	125.0	53.63
284.0	007.5000	0128.8	033.4	090.0	110.0000	0431.2	125.1	53.58
285.0	007.5000	0128.3	033.4	089.7	110.0000	0431.2	125.3	53.54
286.0	007.5000	0127.9	033.3	089.5	110.0000	0431.3	125.5	53.49
287.0	007.5000	0127.6	033.3	089.2	110.0000	0431.3	125.7	53.44
288.0	007.5000	0127.2	033.2	089.0	110.0000	0431.3	125.9	53.38
289.0	007.5000	0126.5	033.2	088.7	110.0000	0431.3	126.2	53.32
290.0	007.5000	0125.6	033.1	088.5	110.0000	0431.3	126.5	53.25
291.0	007.5000	0124.6	033.0	088.3	110.0000	0431.3	126.8	53.17
292.0	007.5000	0123.5	032.8	088.1	110.0000	0431.3	127.1	53.08
293.0	007.5000	0122.4	032.7	087.9	110.0000	0431.4	127.5	53.00

Exhibit 16 - D

FMCommander Single Allocation Study
06-09-2009

KLVN CH 202 B1
7.5 kW 169 M COR
Prot. = 60 dBu
Intef. = 54 dBu

KFCF CH 201 B BLED19800318AE
2.4 kW, 1409 M COR
Prot. = 60 dBu
Intef. = 54 dBu

