

TH-F6A FCC ID:ALH31241110
Alignment and Inspection

No.	Item	Setting	Instrument	Point	Spec.
PCB					
1	setting	Pwr SW ON			
2	LCD contrast		JIG	VR701	Judging from see
3	Storing Memories	MENU MODE PC	PC, JIG	PC	
4	PLL Lock Voltage Check				
	A band VCO3/L	137.000MHz FM	PC,DCVM	TP1	0.7V-
	VCO3/H	173.990MHz FM	PC,DCVM	TP1	-5.5V
	VCO3S/L	215.000MHz FM	PC,DCVM	TP1	0.7V-
	VCO3S/H	259.990MHz FM	PC,DCVM	TP1	-5.5V
	VCO4/L	400.000MHz FM	PC,DCVM	TP1	0.7V-
	VCO4/H	469.990MHz FM	PC,DCVM	TP1	-5.5V
	VCO4S/L	1240.000MHz FM	PC,DCVM	TP1	0.7V-
	VCO4S/H	1299.900MHz FM	PC,DCVM	TP1	-5.5V
	B band VCO1/L	23.000MHz FM	PC,DCVM	TP2	0.7V-
	VCO1/H	42.390MHz FM	PC,DCVM	TP2	-5.5V
	VCO1S/L	142.400MHz FM	PC,DCVM	TP2	0.7V-
	VCO1S/H	182.390MHz FM	PC,DCVM	TP2	-5.5V
	VCO2/L	182.400MHz FM	PC,DCVM	TP2	0.7V-
	VCO2/H	222.390MHz FM	PC,DCVM	TP2	-5.5V
	VCO2S/L	502.400MHz FM	PC,DCVM	TP2	0.7V-
	VCO2S/H	591.990MHz FM	PC,DCVM	TP2	-5.5V
5	2nd Local Alignment				
	B band	146.05MHz USB	PC,f counter	TP3,PC	57.1500M +/- 50Hz
		146.05MHz USB	PC,f counter	TP3,PC	57.1475M +/- 50Hz
		146.05MHz USB	PC,f counter	TP3,PC	57.1525M +/- 50Hz
6	RX DeMod Alignment				
	B band	146.05MHz FM	SSG 57.6MHz 0dBm	TP5-L19	AF OUTPUT MAX
		90.1MHz W-FM	SSG 10.8MHz 0dBm	TP5-L18	AF OUTPUT MAX
Assemble					
7	TX frequency Alignment				
		1299.990MHz	f counter,PC	PC	+/- 500Hz
8	RX BPF TUNE Alignment, Sensitivity Check				
	A band	144MHz f2 147.05 FM	SSG-121dBm,AfAna	ANT-ExAf	Sensitivity Max
		147.05MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more

No.	Item	Setting	Instrument	Point	Spec.
		144MHz f1 137.05 FM	SSG-103dBm,AfAna	ANT-ExAf	Sensitivity Max
		137.05MHz FM	SSG-103dBm,AfAna	ANT-ExAf	12dB SINAD or more
		144MHz f3 173.95 FM	SSG-103dBm,AfAna	ANT-ExAf	Sensitivity Max
		173.95MHz FM	SSG-103dBm,AfAna	ANT-ExAf	12dB SINAD or more
		146.050MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more
		147.950MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	222MHz f2 223.55 FM	SSG-120dBm,AfAna	ANT-ExAf	Sensitivity Max
	(K TYPE ONLY)	223.55MHz FM	SSG-120dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	222MHz f1 215.05 FM	SSG-103dBm,AfAna	ANT-ExAf	222MHz f2 data
	(K TYPE ONLY)	215.05MHz FM	SSG-103dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	222MHz f3 234.95 FM	SSG-103dBm,AfAna	ANT-ExAf	222MHz f2 data
	(K TYPE ONLY)	234.95MHz FM	SSG-103dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	222.05MHz FM	SSG-120dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	224.95MHz FM	SSG-120dBm,AfAna	ANT-ExAf	12dB SINAD or more
		438.05MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more
		444.05MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more
		449.95MHz FM	SSG-121dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1240.05MHz FM	SSG-118dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1270.05MHz FM	SSG-118dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1299.95MHz FM	SSG-118dBm,AfAna	ANT-ExAf	12dB SINAD or more
	B band	144MHz f2 147.05FM	SSG-117dBm,AfAna	ANT-ExAf	Sensitivity Max
		147.05MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		144MHz f1 147.05FM	SSG-93dBm,AfAna	ANT-ExAf	144MHz f2 data
		108.05MHz FM	SSG-93dBm,AfAna	ANT-ExAf	12dB SINAD or more
		144MHz f1 147.05FM	SSG-100dBm,AfAna	ANT-ExAf	144MHz f2 data
		234.95MHz FM	SSG-100dBm,AfAna	ANT-ExAf	12dB SINAD or more
		51.1MHz FM	SSG-110dBm,AfAna	ANT-ExAf	12dB SINAD or more
		120.1MHz FM	SSG-93dBm,AfAna	ANT-ExAf	12dB SINAD or more
		146.050MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		147.950MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	222.05MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
	(K TYPE ONLY)	224.95MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		438.05MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		444.05MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		449.95MHz FM	SSG-117dBm,AfAna	ANT-ExAf	12dB SINAD or more
		900.05MHz FM	SSG-110dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1240.05MHz FM	SSG-116dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1270.05MHz FM	SSG-116dBm,AfAna	ANT-ExAf	12dB SINAD or more
		1299.95MHz FM	SSG-116dBm,AfAna	ANT-ExAf	12dB SINAD or more
		90.1MHz W-FM	SSG-93dBm,AfAna	ANT-ExAf	30dB SN or more
		500.1MHz W-FM	SSG-93dBm,AfAna	ANT-ExAf	30dB SN or more
9	RX SQL, SM ALIGN				

No.	Item	Setting	Instrument	Point	Spec.
	A band	146.05MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		444.05MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		1270.05MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
	(K TYPE ONLY)	223.55MHz FM	SSG-125dBm,AfAna	ANT	
	(K TYPE ONLY)		SSG-120dBm,AfAna	ANT	
	(K TYPE ONLY)		SSG-120dBm,AfAna	ANT	
	(K TYPE ONLY)		SSG-105dBm,AfAna	ANT	
	B band	0.80MHz FM (BAR-ANT OFF)	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		21.05MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		51.1MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		120.1MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		145.8MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		222.1MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		438.1MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	

No.	Item	Setting	Instrument	Point	Spec.
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		1270.1MHz FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		90.1MHz W-FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		200.1MHz W-FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
		500.1MHz W-FM	SSG-125dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-120dBm,AfAna	ANT	
			SSG-105dBm,AfAna	ANT	
10	BAR-ANT ALIGN, Sensivity Check				
	B band	MW f1 0.530 AM	SSG-30dBm,AfAna	Loop-ANT	
		0.530MHz	SSG-10dBm,AfAna	Loop-ANT	10dB SN or more
		MW f2 1.000 AM	SSG-30dBm,AfAna	Loop-ANT	
		1.000MHz	SSG-10dBm,AfAna	Loop-ANT	10dB SN or more
		MW f3 1.500 AM	SSG-30dBm,AfAna	Loop-ANT	
		1.500MHz	SSG-10dBm,AfAna	Loop-ANT	10dB SN or more
		SW f1 3.50 AM	SSG-30dBm,AfAna	Loop-ANT	
		3.500MHz	SSG10dBm,AfAna	Loop-ANT	10dB SN or more
		SW f2 7.20 AM	SSG-30dBm,AfAna	Loop-ANT	
		7.200MHz	SSG10dBm,AfAna	Loop-ANT	10dB SN or more
		SW f3 10.10 AM	SSG-30dBm,AfAna	Loop-ANT	
		10.100MHz	SSG10dBm,AfAna	Loop-ANT	10dB SN or more
11	RX Spurious Response(1st Image)				
	A band	146.05MHz FM	SSG-71dBm,AfAna	ANT	12dB SINAD or less
		449.95MHz FM	SSG-70dBm,AfAna	ANT	12dB SINAD or less
		1299.90MHz FM	SSG-70dBm,AfAna	ANT	12dB SINAD or less
	(K TYPE ONLY)	222.05MHz FM	SSG-80dBm,AfAna	ANT	12dB SINAD or less
	B band	145.05MHz FM	SSG-77dBm,AfAna	ANT	12dB SINAD or less
		222.050MHz	SSG-86dBm,AfAna	ANT	12dB SINAD or less
12	RX Hum&Noise check				
	A band	146.05MHz FM	SSG-53dBm,AfAna	ANT	38dB or more
		444.05MHz FM	SSG-53dBm,AfAna	ANT	34dB or more
		1260.050MHz FM	SSG-53dBm,AfAna	ANT	30dB or more

No.	Item	Setting	Instrument	Point	Spec.
	(K TYPE ONLY)	222.050MHz FM	SSG-53dBm,AfAna	ANT	36dB or more
	B band	145.050MHz FM	SSG-53dBm,AfAna	ANT	38dB or more
		444.050MHz FM	SSG-53dBm,AfAna	ANT	34dB or more
		1260.050MHz FM	SSG-53dBm,AfAna	ANT	30dB or more
		222.050MHz FM	SSG-53dBm,AfAna	ANT	36dB or more
13	SSB BFO Alignment				
	B band	51.100MHz CW	PC, Voltage Down	ANT-ExAf	800Hz±50Hz
		51.101MHz USB	PC, Voltage Down	ANT-ExAf	1kHz±50Hz
		51.099MHz LSB	PC, Voltage Up	ANT-ExAf	1kHz±50Hz
14	AF Distortion Check				
	A band	146.05MHz FM	SSG-53dBm,AfAna	ANT-ExAf	5% or less
	B band	146.05MHz FM	SSG-53dBm,AfAna	ANT-ExAf	10% or less
		146.05MHz AM	SSG-93dBm,AfAna	ANT-ExAf	10% or less
		146.05MHz USB	SSG-93dBm,AfAna	ANT-ExAf	10% or less
		146.05MHz LSB	SSG-93dBm,AfAna	ANT-ExAf	10% or less
15	AF Output Check				
	A band	146.05MHz FM	SSG-53dBm,AfAna	ANT-ExAf	300mW or more
16	Antenna Radiation Check				
	A band	147.050MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		444.050MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		1270.05MHz FM	Load, Spe-Ana	ANT	-57dBm or less
	(K TYPE ONLY)	223.550MHz FM	Load, Spe-Ana	ANT	-57dBm or less
	B band	0.80MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		21.05MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		51.1MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		120.1MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		145.8MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		221.1MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		438.1MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		1270.1MHz FM	Load, Spe-Ana	ANT	-57dBm or less
		90.1MHz W-FM	Load, Spe-Ana	ANT	-57dBm or less
		200.1MHz W-FM	Load, Spe-Ana	ANT	-57dBm or less
		500.1MHz W-FM	Load, Spe-Ana	ANT	-57dBm or less
17	Battery Voltage Alignment & Check				
	A band	146.050MHz FM	DC,VM,6.5V Supply	Battery IN	
		146.050MHz FM	DC,VM,16.5V Supply	DC IN	16.5-17.5V Alarm
	TX EL Power	146.050MHz FM	DC,VM,6.0V Supply	Battery IN	BATT Meter 1seg
18	TX Power Alignment & Check				
	Battery 7.4V Hi	144MHzHi 7f2 147.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.0A less
	Hi	144MHzHi 7f1 137.05	PC	ANT	146MHzHi 7f2 data
	Hi	144MHzHi 7f3 173.99	PC	ANT	146MHzHi 7f2 data
	Low	144MHzLo 7f2 147.05	Pow-M,Current-M	ANT	0.4 - 0.6W 0.8A less

No.	Item	Setting	Instrument	Point	Spec.
	Low	144MHzLo 7f1 137.05	PC	ANT	146MHzLo 7f2 data
	Low	144MHzLo 7f3 173.99	PC	ANT	146MHzLo 7f2 data
	EL	144MHzEL 7f2 147.05	Pow-M,Current-M	ANT	70-130mW 0.5A less
	EL	144MHzEL 7f1 137.05	PC	ANT	146MHz EL 7f2 data
	EL	144MHzEL 7f3 173.99	PC	ANT	146MHz EL 7f2 data
	Hi	430MHzHi 7f2 444.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.2A less
	Hi	430MHzHi 7f1 410.05	Pow-M,Current-M	ANT	
	Hi	430MHzHi 7f3 469.90	Pow-M,Current-M	ANT	
	Low	430MHzLo 7f2 444.05	Pow-M,Current-M	ANT	0.4 - 0.6W 0.8A less
	Low	430MHzLo 7f1 410.05	Pow-M,Current-M	ANT	
	Low	430MHzLo 7f3 469.90	Pow-M,Current-M	ANT	
	EL	430MHzEL 7f2 444.05	Pow-M,Current-M	ANT	70-130mW 0.5A less
	EL	430MHzEL 7f1 410.05	Pow-M,Current-M	ANT	
	EL	430MHzEL 7f3 469.90	Pow-M,Current-M	ANT	
	Hi	1260MHzHi7f2 1270.1	Pow-M,Current-M	ANT	0.8 - 1.0W 0.8A less
	Hi	1260MHzHi7f1 1240.1	Pow-M,Current-M	ANT	
	Hi	1260MHzHi7f3 1299.9	Pow-M,Current-M	ANT	
	Low	1260MHzLo7f2 1270.1	Pow-M,Current-M	ANT	70-130mW 0.5A less
	Low	1260MHzLo7f1 1240.1	Pow-M,Current-M	ANT	
	Low	1260MHzLo7f3 1299.95	Pow-M,Current-M	ANT	
	(K TYPE ONLY) Hi	222MHz Hi7f2 222.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.0A less
	(K TYPE ONLY) Hi	222MHz Hi7f1 215.05	PC	ANT	222MHzHi 7f2 data
	(K TYPE ONLY) Hi	222MHz Hi7f3 234.95	PC	ANT	222MHzHi 7f2 data
	(K TYPE ONLY) Low	220MHz Lo7f2 222.05	Pow-M,Current-M	ANT	0.4 - 0.6W 0.8A less
	(K TYPE ONLY) Low	222MHz Lo7f1 215.05	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) Low	222MHz Lo7f3 234.95	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) EL	220MHz EL7f2 222.05	Pow-M,Current-M	ANT	70-130mW 0.5A less
	(K TYPE ONLY) EL	222MHz EL7f1 215.05	PC	ANT	222MHzEL 7f2 data
	(K TYPE ONLY) EL	222MHz EL7f3 234.95	PC	ANT	222MHzEL 7f2 data
19	TX Power Alignment & Check				
	DC IN 13.8V Hi	144MHzHi13f2 147.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.0A less
	Hi	144MHzHi13f1 137.05	PC	ANT	146MHzHi 13f2 data
	Hi	144MHzHi13f3 173.99	PC	ANT	146MHzHi 13f2 data
	Low	144MHzLo13f2 147.05	PC	ANT	146MHzLo 7f2 data
	Low	144MHzLo13f1 137.05	PC	ANT	146MHzLo 7f2 data
	Low	144MHzLo13f3 173.99	PC	ANT	146MHzLo 7f2 data
	EL	144MHzEL13f2 147.05	PC	ANT	146MHz EL 7f2 data
	EL	144MHzEL13f1 137.05	PC	ANT	146MHz EL 7f2 data
	EL	144MHzEL13f3 173.99	PC	ANT	146MHz EL 7f2 data
	Hi	430MHzHi13f2 444.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.2A less
	Hi	430MHzHi13f1 410.05	Pow-M,Current-M	ANT	
	Hi	440MHzHi13f3 469.90	Pow-M,Current-M	ANT	

No.	Item	Setting	Instrument	Point	Spec.
	Low	430MHzLo13f2 444.05	PC	ANT	440MHzLo 7f2 data
	Low	430MHzLo13f1 410.05	PC	ANT	440MHzLo 7f2 data
	Low	430MHzLo13f3 469.90	PC	ANT	440MHzLo 7f2 data
	EL	430MHzEL13f2 444.050	PC	ANT	440MHzEL 7f2 data
	EL	430MHzEL13f1 410.05	PC	ANT	440MHzEL 7f2 data
	EL	430MHzEL13f3 469.90	PC	ANT	440MHzEL 7f2 data
	Hi	1260MHzHi13f2 1270.1	Pow-M,Current-M	ANT	0.9 - 1.2W 1.8A less
	Hi	1260MHzHi13f1 1240.1	Pow-M,Current-M	ANT	
	Hi	1260MHzHi13f3 1299.9	Pow-M,Current-M	ANT	
	Low	1260MHzLo13f2 1270.1	PC	ANT	1200MHzLo 7f2 data
	Low	1260MHzLo13f1 1240.1	PC	ANT	1200MHzLo 7f2 data
	Low	1260MHzLo13f3 1299.9	PC	ANT	1200MHzLo 7f2 data
	(K TYPE ONLY) Hi	222MHzHi13f2 222.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.0A less
	(K TYPE ONLY) Hi	222MHzHi13f1 215.05	PC	ANT	222MHzHi 13f2 data
	(K TYPE ONLY) Hi	222MHzHi13f3 234.95	PC	ANT	222MHzHi 13f2 data
	(K TYPE ONLY) Low	222MHzLo13f2 222.05	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) Low	222MHzLo13f1 215.05	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) Low	222MHzLo13f3 234.95	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) EL	222MHzEL13f2 222.05	PC	ANT	222MHzEL 7f2 data
	(K TYPE ONLY) EL	222MHzEL13f1 215.05	PC	ANT	222MHzEL 7f2 data
	(K TYPE ONLY) EL	222MHzEL13f3 234.95	PC	ANT	222MHzEL 7f2 data
20	TX Power Alignment & Check				
	Battery 6V Hi	144MHzHi 6f2 147.05	Pow-M,Current-M	ANT	0.4 - 0.7W 0.8A less
	Hi	144MHzHi 6f1 137.05	PC	ANT	146MHz EL 6f2 data
	Hi	144MHzHi 6f1 173.99	PC	ANT	146MHz EL 6f2 data
	Low	144MHzLo 6f2 147.05	PC	ANT	146MHzLo 7f2 data
	Low	144MHzLo 6f1 137.05	PC	ANT	146MHzLo 7f2 data
	Low	144MHzLo 6f3 173.99	PC	ANT	146MHzLo 7f2 data
	EL	144MHzEL 6f2 147.05	PC	ANT	146MHz EL 7f2 data
	EL	144MHzEL 6f1 137.05	PC	ANT	146MHz EL 7f2 data
	EL	144MHzEL 6f3 173.99	PC	ANT	146MHz EL 7f2 data
	Hi	430MHzHi 6f2 444.05	Pow-M,Current-M	ANT	0.4 - 0.7W 0.8A less
	Hi	430MHzHi 6f1 410.05	Pow-M,Current-M	ANT	
	Hi	430MHzHi 6f3 469.90	Pow-M,Current-M	ANT	
	Low	430MHzLo 6f2 444.05	PC	ANT	440MHzLO 7f2 data
	Low	430MHzLo 6f1 410.05	PC	ANT	440MHzLO 7f2 data
	Low	430MHzLo 6f3 469.90	PC	ANT	440MHzLO 7f2 data
	EL	430MHzEL 6f2 444.05	PC	ANT	440MHzEL 7f2 data
	EL	430MHzEL 6f1 410.05	PC	ANT	440MHzEL 7f2 data
	EL	430MHzEL 6f3 469.90	PC	ANT	440MHzEL 7f2 data
	Hi	1260MHzHi6f2 1270.1	Pow-M,Current-M	ANT	0.4 - 0.7W 0.8A less
	Hi	1260MHzHi6f1 1240.1	Pow-M,Current-M	ANT	

No.	Item	Setting	Instrument	Point	Spec.
	Hi	1260MHzHi6f3 1299.9	Pow-M,Current-M	ANT	
	Low	1260MHzLo6f2 1270.1	PC	ANT	1200MHzLo 7f2 data
	Low	1260MHzLo6f1 1240.1	PC	ANT	1200MHzLo 7f2 data
	Low	1260MHzLo6f3 1299.9	PC	ANT	1200MHzLo 7f2 data
	(K TYPE ONLY) Hi	222MHz Hi6f2 222.05	Pow-M,Current-M	ANT	4.8 - 5.2W 2.0A less
	(K TYPE ONLY) Hi	222MHz Hi6f1 215.05	PC	ANT	222MHzHi 6f2 data
	(K TYPE ONLY) Hi	222MHz Hi6f3 234.95	PC	ANT	222MHzHi 6f2 data
	(K TYPE ONLY) Low	222MHz Lo6f2 222.05	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) Low	222MHz Lo6f1 215.05	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) Low	222MHz Lo6f3 234.95	PC	ANT	222MHzLo 7f2 data
	(K TYPE ONLY) EL	222MHz EL6f2 222.05	PC	ANT	222MHzEL 7f2 data
	(K TYPE ONLY) EL	222MHz EL6f1 215.05	PC	ANT	222MHzEL 7f2 data
	(K TYPE ONLY) EL	222MHz EL6f3 234.95	PC	ANT	222MHzEL 7f2 data
21	TX Spurious Check				
	Battery 7.5V Hi Pow	147.050MHz	Load, Spe-Ana	ANT	60dB or less
		444.050MHz	Load, Spe-Ana	ANT	60dB or less
		1270.05MHz	Load, Spe-Ana	ANT	60dB or less
	(K TYPE ONLY)	223.550MHz	Load, Spe-Ana	ANT	60dB or less
	DC IN 13.8V Hi Pow	147.050MHz	Load, Spe-Ana	ANT	60dB or less
		444.050MHz	Load, Spe-Ana	ANT	60dB or less
		1270.05MHz	Load, Spe-Ana	ANT	60dB or less
	(K TYPE ONLY)	223.050MHz	Load, Spe-Ana	ANT	60dB or less
	Battery 6.0V Hi Pow	147.050MHz	Load, Spe-Ana	ANT	60dB or less
		444.050MHz	Load, Spe-Ana	ANT	60dB or less
		1270.05MHz	Load, Spe-Ana	ANT	60dB or less
	(K TYPE ONLY)	223.550MHz	Load, Spe-Ana	ANT	60dB or less
	Battery 7.5V Low	147.050MHz	Load, Spe-Ana	ANT	50dB or less
		444.050MHz	Load, Spe-Ana	ANT	50dB or less
		1270.05MHz	Load, Spe-Ana	ANT	50dB or less
	(K TYPE ONLY)	223.550MHz	Load, Spe-Ana	ANT	50dB or less
	Battery 7.5V EL	147.050MHz	Load, Spe-Ana	ANT	40dB or less
		444.050MHz	Load, Spe-Ana	ANT	40dB or less
		1270.05MHz	Load, Spe-Ana	ANT	40dB or less
	(K TYPE ONLY)	223.550MHz	Load, Spe-Ana	ANT	40dB or less
22	TX DCS Balance Alignment				
		144MHz f2 147.050	Mod-Ana, Oscillo	ANT	Align Wave Shape
		144MHz f1 136.050	PC	ANT	145MHz f2 data
		144MHz f3 173.950	PC	ANT	145MHz f2 data
		430MHz f2 444.05	Mod-Ana, Oscillo	ANT	Align Wave Shape
		430MHz f1 438.05	Mod-Ana, Oscillo	ANT	Align Wave Shape
		430MHz f3 449.95	Mod-Ana, Oscillo	ANT	Align Wave Shape
		1260MHz f2 1270.05	Mod-Ana, Oscillo	ANT	Align Wave Shape

No.	Item	Setting	Instrument	Point	Spec.
		1260MHz f1 1240.05	Mod-Ana, Oscillo	ANT	Align Wave Shape
		1260MHz f3 1299.95	Mod-Ana, Oscillo	ANT	Align Wave Shape
	(K TYPE ONLY)	222MHz f2 222.050	Mod-Ana, Oscillo	ANT	Align Wave Shape
	(K TYPE ONLY)	222MHz f1 215.050	PC	ANT	222MHz f2 data
	(K TYPE ONLY)	222MHz f3 234.950	PC	ANT	222MHz f2 data
23	TX Max Dev Alignment				
		144MHz f2 145.050	Mod-Ana, Oscillo	ANT	3.8-4.2kHz at 80mV
		144MHz f1 136.050	PC	ANT	145MHz f2 data
		144MHz f3 173.950	PC	ANT	145MHz f2 data
		430MHz f2 444.05	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
		430MHz f1 438.05	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
		430MHz f3 449.95	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
		1260MHz f2 1270.05	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
		1260MHz f1 1240.05	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
		1260MHz f3 1299.95	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
	(K TYPE ONLY)	222MHz f2 222.050	Mod-Ana, Oscillo	ANT	3.8 - 4.2kHz
	(K TYPE ONLY)	222MHz f1 215.050	PC	ANT	222MHz f2 data
	(K TYPE ONLY)	222MHz f3 234.950	PC	ANT	222MHz f2 data
24	TX Mic Sens Check				
		147.050MHz	Mod-Ana, Oscillo	ANT	4.0 - 10mV at 3k Dev
		444.05MHz	Mod-Ana, Oscillo	ANT	4.0 - 10mV
		1270.05MHz	Mod-Ana, Oscillo	ANT	4.0 - 10mV
	(K TYPE ONLY)	223.550MHz	Mod-Ana, Oscillo	ANT	4.0 - 10mV
25	CTCSS Dev Alignment				
	Tone 151.4Hz	144MHz f2 147.050	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		144MHz f1 136.050	PC	ANT	145MHz f2 data
		144MHz f3 173.950	PC	ANT	145MHz f2 data
		430MHz f2 444.05	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		430MHz f1 438.05	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		430MHz f3 449.95	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		1260MHz f2 1270.05	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		1260MHz f1 1240.05	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
		1260MHz f3 1299.95	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
	(K TYPE ONLY)	222MHz f2 222.050	Mod-Ana, Oscillo	ANT	0.8k +/- 50Hz
	(K TYPE ONLY)	222MHz f1 215.050	PC	ANT	222MHz f2 data
	(K TYPE ONLY)	222MHz f3 234.950	PC	ANT	222MHz f2 data
26	DCS Dev Align				
		Code D023 144MHz f2 147.050	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
		144MHz f1 136.050	PC	ANT	145MHz f2 data
		144MHz f3 173.950	PC	ANT	145MHz f2 data
		430MHz f2 444.05	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
		430MHz f1 438.05	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz

No.	Item	Setting	Instrument	Point	Spec.
		430MHz f3 449.95	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
		1260MHz f2 1270.05	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
		1260MHz f1 1240.05	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
H		1260MHz f3 1299.95	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
	(K TYPE ONLY)	222MHz f2 222.050	Mod-Ana, Oscillo	ANT	0.9k +/- 50Hz
	(K TYPE ONLY)	222MHz f1 215.050	PC	ANT	222MHz f2 data
	(K TYPE ONLY)	222MHz f3 234.950	PC	ANT	222MHz f2 data
27	9600bps Dev Alignment				
		144MHz f2 147.050	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		144MHz f1 136.050	PC	ANT	145MHz f2 data
		144MHz f3 173.950	PC	ANT	145MHz f2 data
		430MHz f2 444.05	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		430MHz f1 438.05	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		430MHz f3 449.95	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		1260MHz f2 1270.05	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		1260MHz f1 1240.05	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
		1260MHz f3 1299.95	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
	(K TYPE ONLY)	222MHz f2 222.050	Mod-Ana, Oscillo	ANT	3.0kHz +/- 0.5kHz
	(K TYPE ONLY)	222MHz f1 215.050	PC	ANT	222MHz f2 data
	(K TYPE ONLY)	222MHz f3 234.950	PC	ANT	222MHz f2 data
28	DTMF Dev Check				
		KEY D 147.050MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
		444.050MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
		1270.05MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
	(K TYPE ONLY)	223.550MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
29	1750Hz TONE Check				
		147.050MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
		444.05MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
		1270.05MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
	(K TYPE ONLY)	223.55MHz	Mod-Ana, Oscillo	ANT	2.5kHz - 4.5kHz
30	VOX Sensitivity Alignment				
	MIC Sensitivity input	147.050MHz	Mod-Ana	ANT	
	30mV input	147.050MHz	Mod-Ana	ANT	
31	TX Hum & Noise Check				
		147.05MHz	Mod-Ana, Oscillo	ANT	38dB or more
		444.050MHz	Mod-Ana, Oscillo	ANT	34dB or more
		1270.05MHz	Mod-Ana, Oscillo	ANT	30dB or more
	(K TYPE ONLY)	223.550MHz	Mod-Ana, Oscillo	ANT	36dB or more
32	TX ANT Open Current				
	7.2V Hi	147.050MHz	Current M	Battery IN	2.2A or less
		444.050MHz	Current M	Battery IN	2.2A or less
		1270.05 MHz	Current M	Battery IN	2.2A or less

No.	Item	Setting	Instrument	Point	Spec.
	(K TYPE ONLY)	223.55MHz	Current M	Battery IN	2.2A or less
33	Current drain Check				
	A band	146.05MHz FM	Current M	ExAf	95mA or less
		146.05MHz FM	Current M	ExAf	400mA or less
	Dual	146.05MHz FM	Current M	ExAf	110mA or less
34	Howling,Buzz Check				
	A band	146.05MHz FM	SSG-53dBm,AfAna	ANT-ExAf	
35	Communication Check				
36	Key Check				
37	Reset				