

Electromagnetic Radiation Disturbance Measurement

Scanning Receiver

Test Date: January 5, 1999
 Temp.: 15 °C ; Humi.: 45 %

Tuning range : 0.030000 MHz - 29.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
0.030000	69.0415000	6.8	2.0	V	40.0	8.8	A
	138.0830000	13.4	< 0.0	-	43.5	< 13.4	A
	207.1245000	17.3	< 0.0	-	43.5	< 17.3	A
	276.1660000	20.1	< 0.0	-	46.0	< 20.1	A
	345.2075000	22.4	< 0.0	-	46.0	< 22.4	A
	414.2490000	24.4	< 0.0	-	46.0	< 24.4	A
	483.2905000	26.1	< 0.0	-	46.0	< 26.1	A
	552.3320000	27.5	< 0.0	-	46.0	< 27.5	A
	621.3735000	28.9	< 0.0	-	46.0	< 28.9	A
	690.4150000	30.1	< 0.0	-	46.0	< 30.1	A
	759.4565000	31.2	< 0.0	-	46.0	< 31.2	A
	828.4980000	32.2	< 0.0	-	46.0	< 32.2	A
	897.5395000	33.3	< 0.0	-	46.0	< 33.3	A
	966.5810000	34.4	< 0.0	-	54.0	< 34.4	A
	1035.6225000	-5.4	<30.0	-	54.0	< 24.6	B
15.000000	84.0115000	8.7	4.0	H	40.0	12.7	A
	168.0230000	15.2	< 0.0	-	43.5	< 15.2	A
	252.0345000	19.2	< 0.0	-	46.0	< 19.2	A
	336.0460000	22.2	< 0.0	-	46.0	< 22.2	A
	420.0575000	24.6	< 0.0	-	46.0	< 24.6	A
	504.0690000	26.6	< 0.0	-	46.0	< 26.6	A
	588.0805000	28.2	< 0.0	-	46.0	< 28.2	A
	672.0920000	29.7	< 0.0	-	46.0	< 29.7	A
	756.1035000	31.1	< 0.0	-	46.0	< 31.1	A
	840.1150000	32.4	< 0.0	-	46.0	< 32.4	A
	924.1265000	33.7	< 0.0	-	46.0	< 33.7	A
	1008.1380000	-5.2	<30.0	-	54.0	< 24.8	B
29.999999	99.0114990	10.2	4.0	H	43.5	14.2	A
	198.0229980	16.8	< 0.0	-	43.5	< 16.8	A
	297.0344970	20.9	< 0.0	-	46.0	< 20.9	A
	396.0459960	24.0	< 0.0	-	46.0	< 24.0	A
	495.0574950	26.4	< 0.0	-	46.0	< 26.4	A
	594.0689940	28.3	< 0.0	-	46.0	< 28.3	A
	693.0804930	30.1	< 0.0	-	46.0	< 30.1	A
	792.0919920	31.7	< 0.0	-	46.0	< 31.7	A
	891.1034910	33.2	< 0.0	-	46.0	< 33.2	A
	990.1149900	34.7	< 0.0	-	54.0	< 34.7	A

JQA Application No. : KL8080582
 Model No. : IC-706MKIIG
 FCC ID : AFJ IC-706MK2G

Regulation : CFR 47 FCC Rules Part 15
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Tuning range : 30.000000 MHz - 59.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
30.000000	99.0115000	10.2	4.0	H	43.5	14.2	A
	198.0230000	16.8	< 0.0	-	43.5	< 16.8	A
	297.0345000	20.9	< 0.0	-	46.0	< 20.9	A
	396.0460000	24.0	< 0.0	-	46.0	< 24.0	A
	495.0575000	26.4	< 0.0	-	46.0	< 26.4	A
	594.0690000	28.3	< 0.0	-	46.0	< 28.3	A
	693.0805000	30.1	< 0.0	-	46.0	< 30.1	A
	792.0920000	31.7	< 0.0	-	46.0	< 31.7	A
	891.1035000	33.2	< 0.0	-	46.0	< 33.2	A
	990.1150000	34.7	< 0.0	-	54.0	< 34.7	A
45.000000	114.0115000	11.5	1.0	H	43.5	12.5	A
	228.0230000	18.3	< 0.0	-	46.0	< 18.3	A
	342.0345000	22.3	< 0.0	-	46.0	< 22.3	A
	456.0460000	25.5	< 0.0	-	46.0	< 25.5	A
	570.0575000	27.9	< 0.0	-	46.0	< 27.9	A
	684.0690000	30.0	< 0.0	-	46.0	< 30.0	A
	798.0805000	31.7	< 0.0	-	46.0	< 31.7	A
	912.0920000	33.5	< 0.0	-	46.0	< 33.5	A
	1026.1035000	-5.3	<30.0	-	54.0	< 24.7	B
59.999999	129.0114990	12.7	2.0	V	43.5	14.7	A
	258.0229980	19.4	< 0.0	-	46.0	< 19.4	A
	387.0344970	23.7	< 0.0	-	46.0	< 23.7	A
	516.0459960	26.8	< 0.0	-	46.0	< 26.8	A
	645.0574950	29.3	< 0.0	-	46.0	< 29.3	A
	774.0689940	31.4	< 0.0	-	46.0	< 31.4	A
	903.0804930	33.4	< 0.0	-	46.0	< 33.4	A
	1032.0919920	-5.4	<30.0	-	54.0	< 24.6	B

Tuning range : 60.000000 MHz - 128.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
60.000000	64.5057500	6.2	3.0	V	40.0	9.2	A
	129.0115000	12.7	< 0.0	-	43.5	< 12.7	A
	193.5172500	16.6	< 0.0	-	43.5	< 16.6	A
	258.0230000	19.4	< 0.0	-	46.0	< 19.4	A
	322.5287500	21.7	< 0.0	-	46.0	< 21.7	A
	387.0345000	23.7	< 0.0	-	46.0	< 23.7	A
	451.5402500	25.4	< 0.0	-	46.0	< 25.4	A
	516.0460000	26.8	< 0.0	-	46.0	< 26.8	A
	580.5517500	28.1	< 0.0	-	46.0	< 28.1	A
	645.0575000	29.3	< 0.0	-	46.0	< 29.3	A
	709.5632500	30.3	< 0.0	-	46.0	< 30.3	A
	774.0690000	31.4	< 0.0	-	46.0	< 31.4	A
	838.5747500	32.4	< 0.0	-	46.0	< 32.4	A
	903.0805000	33.4	< 0.0	-	46.0	< 33.4	A
	967.5862500	34.4	< 0.0	-	54.0	< 34.4	A
	1032.0920000	-5.4	<30.0	-	54.0	< 24.6	B
94.500000	81.7557500	8.4	6.0	V	40.0	14.4	A
	163.5115000	15.0	2.0	V	43.5	17.0	A
	245.2672500	19.0	< 0.0	-	46.0	< 19.0	A
	327.0230000	21.8	< 0.0	-	46.0	< 21.8	A
	408.7787500	24.3	< 0.0	-	46.0	< 24.3	A
	490.5345000	26.3	< 0.0	-	46.0	< 26.3	A
	572.2902500	28.0	< 0.0	-	46.0	< 28.0	A
	654.0460000	29.4	< 0.0	-	46.0	< 29.4	A
	735.8017500	30.8	< 0.0	-	46.0	< 30.8	A
	817.5575000	32.1	< 0.0	-	46.0	< 32.1	A
	899.3132500	33.3	< 0.0	-	46.0	< 33.3	A
	981.0690000	34.6	< 0.0	-	54.0	< 34.6	A
	1062.8247500	-5.5	<30.0	-	54.0	< 24.5	B
128.999999	99.0057495	10.2	11.0	H	43.5	21.2	A
	198.0114990	16.8	9.0	H	43.5	25.8	A
	297.0172485	20.9	0.0	H	46.0	20.9	A
	396.0229980	23.9	< 0.0	-	46.0	< 23.9	A
	495.0287475	26.4	< 0.0	-	46.0	< 26.4	A
	594.0344970	28.3	< 0.0	-	46.0	< 28.3	A
	693.0402465	30.1	< 0.0	-	46.0	< 30.1	A
	792.0459960	31.7	< 0.0	-	46.0	< 31.7	A
	891.0517455	33.2	< 0.0	-	46.0	< 33.2	A
	990.0574950	34.7	< 0.0	-	54.0	< 34.7	A

Tuning range : 129.000000 MHz - 143.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μ V/m)]	Pola- rity	Limits [dB(μ V/m)]	Results [dB(μ V/m)]	Remarks (Note 2)
129.000000	99.0057500	10.2	6.0	V	43.5	16.2	A
	198.0115000	16.8	7.0	H	43.5	23.8	A
	297.0172500	20.9	< 0.0	-	46.0	< 20.9	A
	396.0230000	23.9	< 0.0	-	46.0	< 23.9	A
	495.0287500	26.4	< 0.0	-	46.0	< 26.4	A
	594.0345000	28.3	< 0.0	-	46.0	< 28.3	A
	693.0402500	30.1	< 0.0	-	46.0	< 30.1	A
	792.0460000	31.7	< 0.0	-	46.0	< 31.7	A
	891.0517500	33.2	< 0.0	-	46.0	< 33.2	A
	990.0575000	34.7	< 0.0	-	54.0	< 34.7	A
136.500000	102.7557500	10.5	7.0	V	43.5	17.5	A
	205.5115000	17.3	4.0	H	43.5	21.3	A
	308.2672500	21.3	< 0.0	-	46.0	< 21.3	A
	411.0230000	24.3	< 0.0	-	46.0	< 24.3	A
	513.7787500	26.7	< 0.0	-	46.0	< 26.7	A
	616.5345000	28.8	< 0.0	-	46.0	< 28.8	A
	719.2902500	30.6	< 0.0	-	46.0	< 30.6	A
	822.0460000	32.1	< 0.0	-	46.0	< 32.1	A
	924.8017500	33.8	< 0.0	-	46.0	< 33.8	A
	1027.5575000	-5.3	<30.0	-	54.0	< 24.7	B
143.999999	106.5057495	10.8	7.0	V	43.5	17.8	A
	213.0114990	17.6	4.0	H	43.5	21.6	A
	319.5172485	21.6	< 0.0	-	46.0	< 21.6	A
	426.0229980	24.7	< 0.0	-	46.0	< 24.7	A
	532.5287475	27.2	< 0.0	-	46.0	< 27.2	A
	639.0344970	29.1	< 0.0	-	46.0	< 29.1	A
	745.5402465	30.9	< 0.0	-	46.0	< 30.9	A
	852.0459960	32.6	< 0.0	-	46.0	< 32.6	A
	958.5517455	34.2	< 0.0	-	46.0	< 34.2	A
	1065.0574950	-5.5	<30.0	-	54.0	< 24.5	B

Tuning range : 144.000000 MHz - 148.000000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
144.000000	106.5057500	10.8	7.0	V	43.5	17.8	A
	213.0115000	17.6	4.0	H	43.5	21.6	A
	319.5172500	21.6	3.0	H	46.0	24.6	A
	426.0230000	24.7	< 0.0	-	46.0	< 24.7	A
	532.5287500	27.2	< 0.0	-	46.0	< 27.2	A
	639.0345000	29.1	< 0.0	-	46.0	< 29.1	A
	745.5402500	30.9	< 0.0	-	46.0	< 30.9	A
	852.0460000	32.6	< 0.0	-	46.0	< 32.6	A
	958.5517500	34.2	< 0.0	-	46.0	< 34.2	A
	1065.0575000	-5.5	<30.0	-	54.0	< 24.5	B
146.000000	107.5057500	10.9	6.0	V	43.5	16.9	A
	215.0115000	17.6	4.0	H	43.5	21.6	A
	322.5172500	21.7	3.0	H	46.0	24.7	A
	430.0230000	24.8	< 0.0	-	46.0	< 24.8	A
	537.5287500	27.3	< 0.0	-	46.0	< 27.3	A
	645.0345000	29.3	< 0.0	-	46.0	< 29.3	A
	752.5402500	31.1	< 0.0	-	46.0	< 31.1	A
	860.0460000	32.8	< 0.0	-	46.0	< 32.8	A
	967.5517500	34.4	< 0.0	-	54.0	< 34.4	A
	1075.0575000	-5.5	<30.0	-	54.0	< 24.5	B
148.000000	108.5057500	11.0	6.0	V	43.5	17.0	A
	217.0115000	17.7	4.0	H	46.0	21.7	A
	325.5172500	21.8	3.0	H	46.0	24.8	A
	434.0230000	24.9	< 0.0	-	46.0	< 24.9	A
	542.5287500	27.4	< 0.0	-	46.0	< 27.4	A
	651.0345000	29.4	< 0.0	-	46.0	< 29.4	A
	759.5402500	31.2	< 0.0	-	46.0	< 31.2	A
	868.0460000	32.8	< 0.0	-	46.0	< 32.8	A
	976.5517500	34.6	< 0.0	-	54.0	< 34.6	A

Tuning range : 148.000001 MHz - 199.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
148.000001	108.5057505	11.0	6.0	V	43.5	17.0	A
	217.0115010	17.7	1.0	H	46.0	18.7	A
	325.5172515	21.8	< 0.0	-	46.0	< 21.8	A
	434.0230020	24.9	< 0.0	-	46.0	< 24.9	A
	542.5287525	27.4	< 0.0	-	46.0	< 27.4	A
	651.0345030	29.4	< 0.0	-	46.0	< 29.4	A
	759.5402535	31.2	< 0.0	-	46.0	< 31.2	A
	868.0460040	32.8	< 0.0	-	46.0	< 32.8	A
	976.5517545	34.6	< 0.0	-	54.0	< 34.6	A
174.000000	121.5057500	12.1	0.0	H	43.5	12.1	A
	243.0115000	18.9	4.0	H	46.0	22.9	A
	364.5172500	23.1	< 0.0	-	46.0	< 23.1	A
	486.0230000	26.2	< 0.0	-	46.0	< 26.2	A
	607.5287500	28.6	< 0.0	-	46.0	< 28.6	A
	729.0345000	30.7	< 0.0	-	46.0	< 30.7	A
	850.5402500	32.6	< 0.0	-	46.0	< 32.6	A
	972.0460000	34.4	< 0.0	-	54.0	< 34.4	A
199.999999	134.5057495	13.1	< 0.0	-	43.5	< 13.1	A
	269.0114990	19.9	3.0	H	46.0	22.9	A
	403.5172485	24.1	< 0.0	-	46.0	< 24.1	A
	538.0229980	27.3	< 0.0	-	46.0	< 27.3	A
	672.5287475	29.7	< 0.0	-	46.0	< 29.7	A
	807.0344970	31.9	< 0.0	-	46.0	< 31.9	A
	941.5402465	34.0	< 0.0	-	46.0	< 34.0	A
	1076.0459960	-5.5	<30.0	-	54.0	< 24.5	B

Tuning range : 400.000000 MHz - 470.000000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
400.000000	234.5057500	18.5	< 0.0	-	46.0	< 18.5	A
	469.0115000	25.8	7.0	H	46.0	32.8	A
	703.5172500	30.2	< 0.0	-	46.0	< 30.2	A
	938.0230000	33.9	< 0.0	-	46.0	< 33.9	A
435.000000	252.0057500	19.2	< 0.0	-	46.0	< 19.2	A
	504.0115000	26.6	4.0	V	46.0	30.6	A
	756.0172500	31.1	< 0.0	-	46.0	< 31.1	A
	1008.0230000	-5.2	<30.0	-	54.0	< 24.8	B
470.000000	269.5057500	19.9	< 0.0	-	46.0	< 19.9	A
	539.0115000	27.3	< 0.0	-	46.0	< 27.3	A
	808.5172500	32.0	< 0.0	-	46.0	< 32.0	A
	1078.0230000	-5.5	<30.0	-	54.0	< 24.5	B

Other frequency (include 2nd/3rd local frequency)

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV/m)]	Pola- rity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Remarks (Note 2)
470.000000	30.0000	0.2	< 0.0	-	40.0	< 0.2	A
	37.8660	1.5	< 0.0	-	40.0	< 1.5	A
	39.3216	1.8	< 0.0	-	40.0	< 1.8	A
	49.1520	3.7	1.0	V	40.0	4.7	A
	56.7990	5.0	< 0.0	-	40.0	< 5.0	A
	60.0000	5.6	16.0	H	40.0	21.6	A
	75.7320	7.7	< 0.0	-	40.0	< 7.7	A
	90.0000	9.3	< 0.0	-	43.5	< 9.3	A
	108.1344	11.0	6.0	H	43.5	17.0	A
	117.9648	11.8	6.0	H	43.5	17.8	A
	120.0000	12.0	3.0	H	43.5	15.0	A
	132.7104	13.0	14.0	H	43.5	27.0	A
	137.6256	13.3	16.0	H	43.5	29.3	A
	157.2864	14.6	10.0	H	43.5	24.6	A
	201.0656	17.0	7.0	H	43.5	24.0	A
	265.4208	19.8	8.0	H	46.0	27.8	A
	324.4032	21.7	< 0.0	-	46.0	< 16.7	A
	398.1312	24.0	< 0.0	-	46.0	< 19.0	A

Sample of calculated result at 469.0115000 MHz (Tuning frequency 400.000000 MHz),
as the Minimum Margin point:

Corretion Factor = 25.8 dB(1/m)
+)Meter Reading = 7.0 dB(μ V/m)
Result = 32.8 dB(μ V/m)

Minimum Margin : 46.0 - 32.8 = 13.2(dB)

The point shown on "____" is the Minimum Margin Point.

Note 1:

- 1)The highest frequency generated or used in the EUT: 539.0115000 MHz
- 2)The upper frequency of measurement range : 1078.0230000 MHz
- 3)The spectrum was scanned 30 MHz to 1080 MHz and all emissions not reported were more than 20dB below the applied limits.
- 4)Correction Factor (below 1GHz) : Antenna Factor(dB) + Cable Loss(dB)
Correction Factor (above 1GHz) : Antenna Factor(dB) + Cable Loss(dB) + 20dB Pad Attenuator(dB)
- Pre-Amplifier Gain(dB)

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	120 KHz

Note 2	Detector Function	RES. B.W	V.B.W	Sweep T	Span
B	Peak (SP)	1 MHz	1 MHz	20 msec	0 Hz
C	Peak (SP)	100 kHz	100 kHz	20 msec	0 Hz
*) D	Average (ESV)	1 MHz (3 MHz)	3 MHz	20 msec	0 Hz

():Setting of spectrum analyzer

*)For the average measurement method, it is made measurement using a test receiver, a step attenuater and a spectrum analyzer.

Tester Signature : A. Hosoda
Type Name : Akio Hosoda