

EXHIBIT # 18

FCC Requirements CRF 47 Part 2.1033,c (14)

Data Package # 2

JXBLMDSXP4-DS3

**Transmitter Frequency Stability
28Ghz DS3/ARU17954 (B)**

TEMP	VDC	CH	FREQ SETTING	FREQ ACTUAL	PPM
55c	21.6	Low	27.390 Ghz	27.389940033 Ghz	2.189
55c	21.6	Mid	27.430 Ghz	27.429941660 Ghz	2.131
55c	21.6	High	27.470 Ghz	27.469942965 Ghz	2.083
55c	72.0	Low	27.390 Ghz	27.389940079 Ghz	2.189
55c	72.0	Mid	27.430 Ghz	27.429941615 Ghz	2.131
55c	72.0	High	27.470 Ghz	27.469942940 Ghz	2.083
45c	21.6	Low	27.390 Ghz	27.390029081 Ghz	1.058
45c	21.6	Mid	27.430 Ghz	27.430030913 Ghz	1.127
45c	21.6	High	27.470 Ghz	27.470032609 Ghz	1.189
45c	72.0	Low	27.390 Ghz	27.390029675 Ghz	1.080
45c	72.0	Mid	27.430 Ghz	27.430031343 Ghz	1.142
45c	72.0	High	27.470 Ghz	27.470032897 Ghz	1.197
35c	21.6	Low	27.390 Ghz	27.390018642 Ghz	0.678
35c	21.6	Mid	27.430 Ghz	27.430018733 Ghz	0.682
35c	21.6	High	27.470 Ghz	27.470017521 Ghz	0.638
35c	72.0	Low	27.390 Ghz	27.390013408 Ghz	0.489
35c	72.0	Mid	27.430 Ghz	27.430015241 Ghz	0.554
35c	72.0	High	27.470 Ghz	27.470017075 Ghz	0.620
25c	21.6	Low	27.390 Ghz	27.390015881 Ghz	0.576
25c	21.6	Mid	27.430 Ghz	27.430016797 Ghz	0.609
25c	21.6	High	27.470 Ghz	27.470017266 Ghz	0.627
25c	72.0	Low	27.390 Ghz	27.390008243 Ghz	0.303
25c	72.0	Mid	27.430 Ghz	27.430011872 Ghz	0.430
25c	72.0	High	27.470 Ghz	27.470014292 Ghz	0.518
15c	21.6	Low	27.390 Ghz	27.390029552 Ghz	1.076
15c	21.6	Mid	27.430 Ghz	27.430031164 Ghz	1.135
15c	21.6	High	27.470 Ghz	27.470032607 Ghz	1.189

15c	72.0	Low	27.390 Ghz	27.390029813 Ghz	1.087
15c	72.0	Mid	27.430 Ghz	27.430031368 Ghz	1.142
15c	72.0	High	27.470 Ghz	27.470033030 Ghz	1.204

Transmitter Frequency Stability
28Ghz DS3/ARU17954 (B)

TEMP	VDC	CH	FREQ SETTING	FREQ ACTUAL	PPM
5c	21.6	Low	27.390 Ghz	27.389989758 Ghz	0.375
5c	21.6	Mid	27.430 Ghz	27.429990766 Ghz	0.339
5c	21.6	High	27.470 Ghz	27.469991338 Ghz	0.317
5c	72.0	Low	27.390 Ghz	27.389986617 Ghz	0.490
5c	72.0	Mid	27.430 Ghz	27.429988106 Ghz	0.434
5c	72.0	High	27.470 Ghz	27.469990374 Ghz	0.354
-5c	21.6	Low	27.390 Ghz	27.389999874 Ghz	0.007
-5c	21.6	Mid	27.430 Ghz	27.430001268 Ghz	0.043
-5c	21.6	High	27.470 Ghz	27.470002647 Ghz	0.094
-5c	72.0	Low	27.390 Ghz	27.389998422 Ghz	0.058
-5c	72.0	Mid	27.430 Ghz	27.430000250 Ghz	0.009
-5c	72.0	High	27.470 Ghz	27.470002049 Ghz	0.072
-15c	21.6	Low	27.390 Ghz	27.389990928 Ghz	0.332
-15c	21.6	Mid	27.430 Ghz	27.429992610 Ghz	0.270
-15c	21.6	High	27.470 Ghz	27.469994296 Ghz	0.208
-15c	72.0	Low	27.390 Ghz	27.389991437 Ghz	0.313
-15c	72.0	Mid	27.430 Ghz	27.429992479 Ghz	0.277
-15c	72.0	High	27.470 Ghz	27.469994563 Ghz	0.200
-25c	21.6	Low	27.390 Ghz	27.389992730 Ghz	0.266
-25c	21.6	Mid	27,430 Ghz	27.429994355 Ghz	0.208
-25c	21.6	High	27.470 Ghz	27.469995950 Ghz	0.149
-25c	72.0	Low	27.390 Ghz	27.389992403 Ghz	0.277
-25c	72.0	Mid	27.430 Ghz	27.429994192 Ghz	0.215
-25c	72.0	High	27.470 Ghz	27.469995730 Ghz	0.156
-30c	21.6	Low	27.390 Ghz	27.389994915 Ghz	0.186
-30c	21.6	Mid	27.430 Ghz	27.429996546 Ghz	0.127
-30c	21.6	High	27.470 Ghz	27.469998070 Ghz	0.072
-30c	72.0	Low	27.390 Ghz	27.389995110 Ghz	0.178
-30c	72.0	Mid	27.430 Ghz	27.429996681 Ghz	0.124
-30c	72.0	High	27.470 Ghz	27.469998210 Ghz	0.065

Radiated Emissions Analysis – 0 to 170 GHz

Frequency (Mhz)	Polarity	Level (dBm)	Spec. (dBm)	Margin (dBm)	Pass Fail
36.0	Horizontal	-52.0	-29.0	23.0	Pass
43.0	Horizontal	-50.0	-29.0	21.0	Pass
148.0	Horizontal	-41.0	-29.0	12.0	Pass
172.0	Horizontal	-52.0	-29.0	23.0	Pass
188.0	Horizontal	-39.0	-29.0	10.0	Pass
197.0	Horizontal	-48.0	-29.0	19.0	Pass
199.0	Horizontal	-47.0	-29.0	18.0	Pass
222.0	Horizontal	-48.0	-29.0	19.0	Pass
232.0	Horizontal	-53.0	-29.0	24.0	Pass
246.0	Horizontal	-54.0	-29.0	25.0	Pass
271.0	Horizontal	-52.0	-29.0	23.0	Pass
344.0	Horizontal	-53.0	-29.0	24.0	Pass
369.0	Horizontal	-52.0	-29.0	23.0	Pass
443.0	Horizontal	-56.0	-29.0	27.0	Pass
463.0	Horizontal	-55.0	-29.0	26.0	Pass
482.0	Horizontal	-56.0	-29.0	27.0	Pass
492.0	Horizontal	-52.0	-29.0	23.0	Pass
519.0	Horizontal	-51.0	-29.0	22.0	Pass
699.0	Horizontal	-50.0	-29.0	21.0	Pass
43.0	Vertical	-45.0	-29.0	16.0	Pass
75.0	Vertical	-49.0	-29.0	20.0	Pass
80.0	Vertical	-48.0	-29.0	19.0	Pass
120.0	Vertical	-45.0	-29.0	16.0	Pass
145.0	Vertical	-46.0	-29.0	17.0	Pass
165.0	Vertical	-40.0	-29.0	21.0	Pass
190.0	Vertical	-47.0	-29.0	18.0	Pass
201.0	Vertical	-48.0	-29.0	19.0	Pass
203.0	Vertical	-45.0	-29.0	16.0	Pass
303.0	Vertical	-46.0	-29.0	17.0	Pass
305.0	Vertical	-44.0	-29.0	15.0	Pass
500.0	Vertical	-49.0	-29.0	20.0	Pass
500 MHz to 170 GHz No spurious with in 20 db of the limit					
Data collected - July 99 by AB					

Spurious Cabinet Radiation Table

Frequency Band	26MHz-2GHz	2-18 GHz	18-26.5 GHz	26.5-40 GHz	40-50 GHz	50-75 GHz	75-110 GHz	110-170 GHz
Space Loss db	-48.0	-67.15	-70.5	-74.0	-76.02	-79.55	-82.87	-110.0
Horn Gain db	5.5	8.2	24.0	15.0	24.0	25.0	24.1	25.0
Dipole Gain db	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Mixer Loss db	N/A	N/A	N/A	N/A	N/A	N/A	-34	-46
Carrier Level dbm	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Cable Loss db		-3.9	-4.3	-4.7	-5.6	N/A	N/A	N/A
Pre Sel Cal db	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
Amplifier Gain db	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.0

Net Power @ Spec/An dbm	-25.9	-43.7	-31.6	-44.6	-38.8	-35.43	-52.6	-40.9
Reference Level Offset db	25.9	43.7	31.6	44.6	38.8	35.43	52.6	40.9