

TO: Stan Lyles
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FCC Application Processing Branch

FROM: DeLyle Danner, ARNAV Systems, Inc.

PAGES: 2

RE: FCC ID FEF-453-8050

APPLICANT: ARNAV Systems, Inc.

Correspondence Reference Number: 24834

731 Confirmation Number: EA851428

In response to the correspondence received on 2/21/03, the following information has been provided.

- 1) Based on your test reports we cannot determine the frequency range for this device. The Exhibit 4b Radiated Spurious Emissions page 9 addresses this. Page 9 has been copied and will be part of this memo. Frequency band of operation is over channels 6-9: 1616.255 MHz (lowest channel 6 center frequency – 0.5BW; $1616.88 - 0.625 = 1616.255$ MHz) to 1621.35 MHz (which is the upper frequency allocated to CDMA MSS, includes some guard band to Iridium assigned band).
- 2) Please submit RF output power measurements data for low, middle, and high bands per Section 2.1046. This information is contained on page 9 of Exhibit 4b that will be part of this memo.
- 3) Please submit the transmitter schematics for this device. Schematics and parts lists have been included as Exhibits 15-19.
- 4) Please submit internal photos for this device. Internal photos have been submitted by Exhibit 20.

Just to reiterate this is a Part 25 submission with a designator of **1M25G1W**.

An additional Request for Confidentiality Letter Exhibit 2A to cover Exhibits 15-20 was also posted. Exhibit 2 is still valid. ARNAV Systems, Inc. is under non-disclosure with Qualcomm on these Exhibits. ARNAV Systems would hope that the FCC would honor this confidentiality as they did with Qualcomm's filing of the exact same information.

REPORT No: SC-206160 TESTER: David Gray SPEC: FCC Part 25.202

CUSTOMER: Qualcomm TEST DIST: 3 Meters

EUT: RCOM 100 TEST SITE: Roof

EUT MODE: Transmit BICOINICAL: N/A

DATE: 12/13/02 ERP/EIRP Factor: 5.5 LOG: N/A

NOTES: HORN: 453

CF = Antenna Factor + Cable Loss - Pre-amplifier Gain + Preselector Loss

FREQ (MHz)	VERTICAL (dBuV) pk	HORIZONTAL (dBuV) pk	CF (dBm)	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes	dBuV/m	dBuV/m
1616.88	99.4	99.4	31.3	35.4	-13.0	-43.8	315	1.5	Fundamental (Low Band)	130.7	31.3
3233.76	50.4	50.5	-1.1	-45.8	-13.0	-32.8	315	1.5		49.4	38.4
4850.64	47.6	45.8	0.6	-47.1	-13.0	-34.1	315	1.5		48.2	36.6
6467.52	32	32	7.1	-56.2	-13.0	-43.2			noise	39.1	29.1
8084.4	31	31	9.8	-54.5	-13.0	-41.5			noise	40.8	31.8
9701.28	32	32	10.7	-52.8	-13.0	-39.6			noise	42.7	32.7
11318.16	32	32	14.3	-49.0	-13.0	-36			noise	46.3	36.3
12935.04	41	31	14.0	-40.3	-13.0	-27.3	37.3		noise	55.0	45.0
14551.92	41	32	16.1	-38.1	-13.0	-25.1	34.1		noise	57.1	48.1
16168.8	41	31	17.8	-36.5	-13.0	-23.5	33.5		noise	58.8	48.8
1618.11	99.7	99.4	31.3	36.7	-13.0	-35.5	25	2	Fundamental (Mid Band)	131.0	31.3
3236.22	45.2	47.6	-1.1	-48.5	-13.0	-32.2	25	2		46.7	37.0
4854.33	49.4	49.2	0.6	-45.2	-13.0	-32.2	0	2		50.0	39.3
6472.44	33	33	7.1	-55.2	-13.0	-42.2	53.2		noise	40.1	29.1
8090.55	32	32	9.8	-53.5	-13.0	-40.5	50.5		noise	41.8	31.8
9708.66	32	32	10.7	-52.5	-13.0	-39.5	49.5		noise	42.7	32.7
11326.77	33	33	14.3	-48.0	-13.0	-35	46		noise	47.3	36.3
12944.88	41	31	13.9	-40.3	-13.0	-27.3	37.3		noise	54.9	44.9
14562.89	41	32	16.2	-38.1	-13.0	-25.1	34.1		noise	57.2	48.2
16181.1	41	31	17.9	-36.4	-13.0	-23.4	33.4		noise	58.9	48.9
1620.57	99.3	97.9	31.3	35.3	-13.0	-35.2	43	2	Fundamental (High Band)	130.6	31.3
3241.14	47.5	48.1	-1.0	-48.2	-13.0	-32.2	43	2		47.1	39.3
4861.71	40	40	0.7	-54.6	-13.0	-41.6	51.6		noise	40.7	30.7
6482.28	33	33	7.1	-55.2	-13.0	-42.2	53.2		noise	40.1	29.1
8102.85	31	31	9.8	-54.5	-13.0	-41.5	51.5		noise	40.8	30.8
9723.42	31	31	10.8	-53.5	-13.0	-40.5	50.5		noise	41.8	31.8
11343.99	31	31	14.3	-50.0	-13.0	-37	47		noise	45.3	35.3
12964.56	42	32	13.9	-39.4	-13.0	-26.4	36.4		noise	55.9	45.9
14585.13	42	32	16.2	-37.0	-13.0	-24	34		noise	58.2	48.2
16205.7	42	31	17.9	-36.3	-13.0	-22.3	33.3		noise	59.9	48.9