

Attachment AB
Crashworthiness Test Results

Qualification Data Sheet

Date: 11/21/02	Test: PDST SHOCK (50g)
Test Unit Description	SRB-406 ELT, PN P3-03-0041-001, revision 05, Serial # 2007
Test Unit Configuration	Antenna "A" PN A3-06-2053-001 rev 02 SN 0029 Antenna "B" PN A3-06-2053-001 rev 02 SN 0026 Digital CCA PN A3-07-0038-800 rev 07 SN 0016 RF CCA PN A3-07-0039-800 rev 07 SN 0002 Battery pack A3-03-1006-001 rev 04 SN 020149 Lanyard PN A3-05-0099-001 rev 03.
Description of Test Method (ex: Eurocae ED-62, para x.x)	D204 - 2.3; 2.3.4.1
Pass/Fail Criteria	D204 - 2.3; 2.3.4.1
Authorized Deviations	NONE
Test Location	QUALTEST, ORLANDO
Purchase Order #	—
Test Equipment Arrangement (if necessary)	—
List of Calibrated Equipment	—
DME Test Engineer	KEN HEPPT
DME QA Representative	KEN KOTYK
Lab Test Engineer/Technician	RDSS
Other Witness	—
Test Unit Authorized Deviations	—
Test Data	1. ACTIVATE SELF TEST - PASS 2. ACTIVATE ANT 'A' - PASS 3. ACTIVATE ANT 'B' - PASS
Data Reduction/Calculations	PASS
Test Deviations	—
Test Performed Prior to this Test	6g SHOCK
Next Test to be Performed	SENDING TO FTL.
Test Engineer Signature	<i>Ken Heppt</i>
QA Signature	<i>K Kotyk</i>
Other Witness Signature	—
NMR #	NONE
Notes	"Shake machine" had to shake units 10+ times to get to the full 50g force.

DO204/183 Group B PC controlled ATP tests

- 1) OBTAIN dne DOC Y1-02-1053, Y1-02-1054 and DO-204,183 documents FOR REFERENCE AND SET UP.
- 2) Perform the Y1-02-1054 test procedure.
- 3) Perform para. 3.1 through 3.10 of Y1-02-1053
- 4) Instead of connecting equipment as shown in figure 1A of Y1-02-1053, set up as shown here in this attachment called GROUP B HOOKUP.
- 5) Activate the "spur121.vi", "spur243.vi", and "spur406.vi" software on PC#1 with a serial number based file name for the beacon in question. Do not start the acquire process yet.
- 6) Activate the "beaconminiexec.exe" software and highlight all the test annunciation points to gather all the 406 modulation data. Do not start the acquire process yet.
- 7) Connect the beacon antenna A port to the test equipment and activate the beacon by removing the magnet.
- 8) Perform Y1-02-1053 tests after 15 minutes of warm up sequentially utilizing "spur121.vi", "spur243.vi", and "spur406.vi" on the PC#1 to collect the frequency and side band data needed by the Y1-02-1053 data sheet for paragraphs 4.1.2-3, 4.1.5-6, and 4.2.2 Run the "beaconminiexec.exe" software after to collect the 406 modulation information for the data sheet.
- 9) Perform the remaining paragraphs manually to finish up the data sheet.
- 10) Print all the "spur121.vi", "spur243.vi", and "spur406.vi" output data collected and the beaconminiexec.exe output data collected.

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ISO 9001
CERTIFIED
REGISTERED FIRM
FM 39229

TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

POST 9HOLLE
DATA = 0029
DATA = 0026
RF = 0002
ELG = 0016
DATA = 020149

Tested By: [Signature]

DATE: 11/22/02

Beacon P3-03-0041-001 Serial Number: 2007

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECAN	HP 8568B	OR3063	9/18/03
GENERATOR	HP 8656B	OR1091	5/18/03
MODENA	HP 8901M	OR1093	1/30/03
SLOPE	HP 54110B	OR0627	8/29/03
POWER METER	HP 70100A	6FB 588	9/12/03
CW GENERATOR	HP 8481A	6FB 0112	2/24/03

ORL
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(KP)

TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

SPECTRUM ANALYZER OFFSET DETERMINATION AND PRETEST					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
3.3	HP8656 setting for 121.5MHZ	-0.5	+0.3 dBm	+0.5	P F
3.4	HP8656 setting for 243 MHZ	-0.5	+0.2 dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHZ	-0.5	+0.2 dBm	+0.5	P F

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BIST and turn on tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.1.1	Beacon passes self test and goes off	N/A	✓ chk	N/A	P F
4.1.2	Beacon stays off	N/A	✓ chk	N/A	P F
4.1.3	Beacon transmits when B antenna is touched.	N/A	✓ chk	N/A	P F
4.1.4	Beacon goes off when magnet is installed.	N/A	✓ chk	N/A	P F
4.1.5	Beacon transmits when A antenna is touched.	N/A	✓ chk	N/A	P F
4.1.6	Beacon goes off when magnet is installed.	N/A	✓ chk	N/A	P F

ORL
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TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

RF beacon 121.5/243 Mhz Tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.2.1	Peak Power at 121.5 MHZ	17.0dBm	<u>20.7</u> dBm	N/A	<u>P</u> F
	Antenna gain including feeder and mismatch losses for 121.5 Mhz obtained from antenna field tests.	N/A	<u>-1.0</u> dB	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>19.7</u> dBm	N/A	<u>P</u> F
4.2.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	<u>121.5016</u> MHz	121.506	<u>P</u> F
4.2.3	Peak Power at 243 MHZ	17.0dBm	<u>21.2</u> dBm	N/A	<u>P</u> F
	Antenna gain including feeder and mismatch losses for 243 Mhz obtained from antenna field tests.	N/A	<u>3.7</u> dB	N/A	N/A
	Peak power + antenna gain= EIRP	<u>17</u> 20dbm EIRP	<u>24.9</u> dBm	N/A	<u>P</u> F
4.2.4	Frequency 243 MHz $\pm$ 12 kHz	242.988	<u>243.007</u> MHz	243.012	<u>P</u> F
4.2.5	121.5 Mhz Modulation depth	N/A	<u>-44</u> dBc	-22dBc	<u>P</u> F
4.2.6	121.5 /243 Mhz Duty cycle	45%	<u>61.5</u> %	67%	<u>P</u> F
4.2.7	Max audio frequency	N/A	<u>1499</u> Hz	1600	<u>P</u> F
	Min audio frequency	300	<u>363</u> Hz	N/A	<u>P</u> F
	Max - Min	<u>100</u> N/A	<u>1136</u> Hz	<u>700</u> N/A	<u>P</u> F
4.2.8	Sweeps in 10 seconds	20	<u>30</u> count	40	<u>P</u> F



TEST DATA SHEETS
RF BEACON ASSEMBLY
P3-03-0041-001

RF beacon 406.028 Mhz Tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.3.1	Peak Power at 406.028 MHZ	35.0dBm	35.0 ¹⁴⁴¹ dBm	N/A	☒ P ☐ F
	Antenna gain including feeder and mismatch losses for 406.028 Mhz obtained from antenna field tests.	N/A	0.13 dB FBO	N/A	N/A
	Peak power + antenna gain= EIRP	32.0dbm EIRP	36.25 dBm FBO	N/A	☒ P ☐ F
4.3.2	Frequency Accuracy 406.028 MHz $\pm$ 1 kHz	406.0270	406.02783 MHz	406.0290	☒ P ☐ F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

Tested By: W. H. Galt

DATE: 11/21/02

2007

RF PCB (A3-07-0039) Serial Number: 0002

DIGITAL PCB (A3-07-0038) Serial Number: 0016

Test Equipment	Model	Serial No. or Control No.	Cal. Due
SPECTRUM	HP8568B	0R3063	9/18/03
GENERATOR	HP 8656B	0R1091	9/18/03
MOD MWT	HP8901B	0R1093	1/30/03
SCOPE	HP 94510B	0R0627	8/29/03
TIME + FREQ ANAL	HP9371A	2842A00760	6/11/03
POWER METER	HP 70100A	6FE 588	9/12/03
CAL GENERATOR	HP8481A	6FE0012	2/22/03
DMM	FLUKE 8090A	0R1090	6/14/03

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

SPECTRUM ANALYZER OFFSET DETERMINATION AND PRETEST

Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
3.3	HP8656 setting for 121.5MHZ	-0.5	0.3 dBm	+0.5	P F
3.4	HP8656 setting for 243 MHZ	-0.5	0.2 dBm	+0.5	P F
3.5	HP8656 setting for 406.028 MHZ	-0.5	0.2 dBm	+0.5	P F

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RF beacon 121.5/243 Mhz Tests

Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.1.1	Peak Power at 121.5 MHZ	17.0dBm	18.2 dBm	N/A	P F
	UUT current during 121.5/243 Mhz broadcast	N/A	83 mA	100mA	P F
4.1.2	Frequency 121.5 MHz $\pm$ 6 kHz	121.494	121.5018 MHz	121.506	P F
4.1.3	121.5 MHz Bandwidth $\geq$ +12.5 kHz	N/A	-30.00 dBc	-25dBc	P F
	121.5 MHz Bandwidth $\leq$ -12.5 kHz	N/A	-29.40 dBc	-25dBc	P F
	121.5 MHz Bandwidth $\geq$ +25 kHz	N/A	-32.9 dBc	-30dBc	P F
	121.5 MHz Bandwidth $\leq$ -25 kHz	N/A	-31.5 dBc	-30dBc	P F
4.1.4	Peak Power at 243 MHZ	17.0dBm	18.9 dBm	N/A	P F
4.1.5	Frequency 243 MHz $\pm$ 12 kHz	242.988	243.003 MHz	243.012	P F
4.1.6	243 MHz Bandwidth $\geq$ +12.5 kHz	N/A	-29.6 dBc	-25dBc	P F
	243 MHz Bandwidth $\leq$ -12.5 kHz	N/A	-29.7 dBc	-25dBc	P F
	243 MHz Bandwidth $\geq$ +25 kHz	N/A	-32.3 dBc	-30dBc	P F
	243 MHz Bandwidth $\leq$ -25 kHz	N/A	-34.6 dBc	-30dBc	P F
4.1.7	121.5 Mhz Modulation depth	N/A	-40.2 dBc	-22dBc	P F
4.1.8	364.5 MHz harmonic	N/A	-49.2 dBc	-30dBc	P F
	486 MHz harmonic	N/A	-51.8 dBc	-30dBc	P F
4.1.9	121.5 /243 Mhz Duty cycle	45%	61.7 %	67%	P F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

RF beacon 406.028 Mhz Tests

Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.2.1	Peak Power at 406.028 MHz	35.0dBm	<u>36.0</u> dBm	39.0dbm	☒ P ☐ F
	UUT peak current during 406 Mhz broadcast	N/A	<u>1.45</u> A	1.7A	☒ P ☐ F
4.2.2	406.028 MHz Bandwidth $\geq +12.0$ kHz	N/A	<u>-42.6</u> dBc	-30dBc	☒ P ☐ F
	406.028 MHz Bandwidth ≤ -12.0 kHz	N/A	<u>-41.4</u> dBc	-30dBc	☒ P ☐ F
	406.028 MHz Bandwidth $\geq +24$ kHz	N/A	<u>-50.4</u> dBc	-40dBc	☒ P ☐ F
	406.028 MHz Bandwidth ≤ -24 kHz	N/A	<u>-51.4</u> dBc	-40dBc	☒ P ☐ F
4.2.3	812 MHz harmonic	N/A	<u>-44.4</u> dBc	-30dBc	☒ P ☐ F
4.2.4	406 pulse falling (starting edge) time	0.3	<u>0.96</u> msec	5.0	☒ P ☐ F
4.2.5	406 pulse rising (stopping edge) time	0.3	<u>1.02</u> msec	5.0	☒ P ☐ F
4.2.6	Total transmission pulse time measured with diode detector.	435.6	<u>442.34</u> msec	444.4	☒ P ☐ F
4.2.7	Total transmission time burst spacing measured with diode detector.	47.5	<u>51.1</u> sec	52.5	☒ P ☐ F
4.2.9	Phase modulation +1.10 radian peak	1.00	<u>1.096</u> Rad	1.20	☒ P ☐ F
4.2.10	Phase modulation -1.10 radian peak	-1.20	<u>-1.038</u> Rad	-1.00	☒ P ☐ F
4.2.11	Phase modulation rise time	50usec	<u>129.5</u> usec	250 usec	☒ P ☐ F
4.2.12	Phase modulation fall time	50usec	<u>153.8</u> usec	250 usec	☒ P ☐ F
4.2.13	Phase modulation rise/fall symmetry	N/A	<u>0.0177</u> ratio	0.05	☒ P ☐ F
4.2.14	Modulation Bit rate 400 bits/sec	396.0	<u>402.187</u> Hz	404.0	☒ P ☐ F
4.2.15	CW preamble time	158.4	<u>160.874</u> msec	161.6	☒ P ☐ F
4.2.16	NOAA HEX ID ID/SN matches programmed in	N/A	<u>ADDC07C0144040</u> N/A	N/A	☒ P ☐ F
4.2.17	Frequency Accuracy 406.028 MHz ± 1 kHz	406.0270	<u>406.02809</u> MHz	406.0290	☒ P ☐ F
4.2.18	Short term stability	-2e-9	<u>286 x 10⁻⁹</u> Hz	2e-9	☒ P ☐ F
4.2.19	medium term residual variation	-3e-9	<u>519 x 10⁻⁹</u> Hz	3e-9	☒ P ☐ F
4.2.20	medium term slope	-1e-9	<u>156 x 10⁻⁹</u> Hz	1e-9	☒ P ☐ F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

BIST, activation and B antenna output power tests					
Para.	Description	Min.	Results	Max.	Pass / Fail (circle one)
4.3.2	Beacon stays off	N/A	✓	N/A	P F
4.3.3	Beacon passes self test and goes off	N/A	✓	N/A	P F
4.3.4	Beacon transmits when load is connected to B antenna	N/A	✓	N/A	P F
4.3.6 (-002 version only)	Peak Power at 121.5 MHZ	17.0dBm	_____ dBm	N/A	P F
4.3.7 (-002 version only)	Peak Power at 243 MHZ	17.0dBm	_____ dBm	N/A	P F
4.3.8 (-002 version only)	Peak Power at 406.028 MHZ	35.0dBm	_____ dBm	39.0dBm	P F

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TEST DATA SHEETS
RF BEACON ASSEMBLY
A3-07-1032

Beacon Calibration factor recording				
Para.	Description	Under 0 deg c	0 to 35 deg c	Over 35 deg c
4.4.4	12 volt gain settings for 121/243 power (Q1 location)	3500	3300	3100
4.4.5	12 volt gain settings for 406 power (Q3 location)	0	0	0
4.4.6	406 phase modulation +1.1 radian (Q5 location)	1522	1522	1522
	406 phase modulation 0.0 radian (Q5 location)	998	998	998
	406 phase modulation -1.1 radian (Q5 location)	421	421	474
4.4.7	406 gain A (Q7 location)	2400	2500	2600
4.4.8	406 gain B (Q9 location)	2400	2400	2600
P.				
Description				
4.4.9	Preamble time. (Q11 location)	N/A	Time in msec	N/A
		N/A	155.8	N/A
Para.				
Description				
4.4.10	406 gain B offset (Q13 location)	Over voltage mode	Nominal voltage	Undervoltage mode
		0	0	0
Para.				
Description				
4.4.11	Battery threshold (Q15 location)	Over voltage mode	N/A	Undervoltage mode
		11002	N/A	9001

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EP

Test Start 11/21/02, 7:02 PM

---MODULATION TEST---

PosPhase

UL = 1.2000000

LL = 1.0000000

Results = 1.0963432

NegPhase

UL = -1.0000000

LL = -1.2000000

Results = -1.0385119

Test Status: PASSED

---MOD_SYM TEST---

ModRise

UL = 0.0002500

LL = 0.0000500

Results = 0.0001595

ModFall

UL = 0.0002500

LL = 0.0000500

Results = 0.0001538

ModSym

UL = 0.0500000

LL = N/A

Results = 0.0177656

Test Status: PASSED

---DECODER TEST---

Baud

UL = 404.0000000

LL = 396.0000000

Results = 402.1878634

Preamble

UL = 0.161600

LL = 0.158400

Results = 0.160874

ID/SN: ADDC07C01440401

Test Status: PASSED

---FREQUENCY TEST---

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(initials)

MeanFreq

UL = 406.0290000E+6

LL = 406.0270000E+6

Results = 406.0280901E+6

ShortTerm

UL = 2.0000000E-9

LL = -2.0000000E-9

Results = 286.9067429E-12

MediumTerm

UL = 3.0000000E-9

LL = -3.0000000E-9

Results = 519.2849116E-12

MeanSlope

UL = 1.0000000E-9

LL = -1.0000000E-9

Results = 156.6583080E-12

Test Status: PASSED

Test Finished 11/21/02, 7:20 PM

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0	.00	PASS	LIMIT 0
100	-.20	PASS	LIMIT 0
200	-.50	PASS	LIMIT 0
300	-.50	PASS	LIMIT 0
400	-1.20	PASS	LIMIT 0
500	-1.50	PASS	LIMIT 0
600	-2.10	PASS	LIMIT 0
700	-2.70	PASS	LIMIT 0
800	-3.80	PASS	LIMIT 0
900	-4.60	PASS	LIMIT 0
1000	-5.40	PASS	LIMIT 0
1100	-6.30	PASS	LIMIT 0
1200	-7.00	PASS	LIMIT 0
1300	-7.80	PASS	LIMIT 0
1400	-9.10	PASS	LIMIT 0
1500	-10.00	PASS	LIMIT 0
1600	-11.00	PASS	LIMIT 0
1700	-12.00	PASS	LIMIT 0
1800	-13.00	PASS	LIMIT 0
1900	-13.80	PASS	LIMIT 0
2000	-15.00	PASS	LIMIT 0
2100	-15.60	PASS	LIMIT 0
2200	-16.20	PASS	LIMIT 0
2300	-16.40	PASS	LIMIT 0
2400	-16.60	PASS	LIMIT 0
2500	-16.70	PASS	LIMIT 0
2600	-16.90	PASS	LIMIT 0
2700	-17.30	PASS	LIMIT 0
2800	-17.40	PASS	LIMIT 0
2900	-17.40	PASS	LIMIT 0
3000	-17.60	PASS	LIMIT 0
3100	-17.70	PASS	LIMIT 0
3200	-17.80	PASS	LIMIT 0
3300	-18.00	PASS	LIMIT 0
3400	-18.20	PASS	LIMIT 0
3500	-18.60	PASS	LIMIT 0
3600	-19.20	PASS	LIMIT 0
3700	-20.40	PASS	LIMIT 0
3800	-21.00	PASS	LIMIT 0
3900	-21.10	PASS	LIMIT 0
4000	-21.20	PASS	LIMIT 0
4100	-21.50	PASS	LIMIT 0
4200	-21.50	PASS	LIMIT 0
4300	-21.60	PASS	LIMIT 0
4400	-21.70	PASS	LIMIT 0
4500	-21.70	PASS	LIMIT 0
4600	-21.70	PASS	LIMIT 0
4700	-21.90	PASS	LIMIT 0
4800	-22.30	PASS	LIMIT 0
4900	-22.10	PASS	LIMIT 0
5000	-22.10	PASS	LIMIT 0
5100	-22.20	PASS	LIMIT 0

5200	-22.30	PASS	LIMIT 0
5300	-22.60	PASS	LIMIT 0
5400	-22.70	PASS	LIMIT 0
5500	-22.80	PASS	LIMIT 0
5600	-22.80	PASS	LIMIT 0
5700	-23.00	PASS	LIMIT 0
5800	-23.20	PASS	LIMIT 0
5900	-23.70	PASS	LIMIT 0
6000	-24.20	PASS	LIMIT 0
6100	-24.90	PASS	LIMIT 0
6200	-24.50	PASS	LIMIT 0
6300	-24.60	PASS	LIMIT 0
6400	-24.60	PASS	LIMIT 0
6500	-25.20	PASS	LIMIT 0
6600	-25.70	PASS	LIMIT 0
6700	-24.80	PASS	LIMIT 0
6800	-24.80	PASS	LIMIT 0
6900	-24.80	PASS	LIMIT 0
7000	-24.80	PASS	LIMIT 0
7100	-24.90	PASS	LIMIT 0
7200	-24.90	PASS	LIMIT 0
7300	-25.70	PASS	LIMIT 0
7400	-26.30	PASS	LIMIT 0
7500	-26.40	PASS	LIMIT 0
7600	-26.40	PASS	LIMIT 0
7700	-26.40	PASS	LIMIT 0
7800	-26.40	PASS	LIMIT 0
7900	-26.40	PASS	LIMIT 0
8000	-26.40	PASS	LIMIT 0
8100	-26.30	PASS	LIMIT 0
8200	-26.40	PASS	LIMIT 0
8300	-26.40	PASS	LIMIT 0
8400	-26.40	PASS	LIMIT 0
8500	-26.40	PASS	LIMIT 0
8600	-26.40	PASS	LIMIT 0
8700	-26.40	PASS	LIMIT 0
8800	-26.70	PASS	LIMIT 0
8900	-27.00	PASS	LIMIT 0
9000	-27.50	PASS	LIMIT 0
9100	-27.70	PASS	LIMIT 0
9200	-27.60	PASS	LIMIT 0
9300	-27.70	PASS	LIMIT 0
9400	-28.70	PASS	LIMIT 0
9500	-28.40	PASS	LIMIT 0
9600	-28.60	PASS	LIMIT 0
9700	-28.50	PASS	LIMIT 0
9800	-28.90	PASS	LIMIT 0
9900	-29.10	PASS	LIMIT 0
10000	-28.60	PASS	LIMIT 0
10100	-28.60	PASS	LIMIT 0
10200	-29.10	PASS	LIMIT 0
10300	-28.70	PASS	LIMIT 0

10400	-28.70	PASS	LIMIT 0
10500	-28.90	PASS	LIMIT 0
10600	-29.20	PASS	LIMIT 0
10700	-29.30	PASS	LIMIT 0
10800	-29.40	PASS	LIMIT 0
10900	-29.20	PASS	LIMIT 0
11000	-29.10	PASS	LIMIT 0
11100	-29.40	PASS	LIMIT 0
11200	-29.40	PASS	LIMIT 0
11300	-29.40	PASS	LIMIT 0
11400	-29.50	PASS	LIMIT 0
11500	-29.50	PASS	LIMIT 0
11600	-29.60	PASS	LIMIT 0
11700	-29.70	PASS	LIMIT 0
11800	-29.70	PASS	LIMIT 0
11900	-29.70	PASS	LIMIT 0
12000	-29.80	PASS	LIMIT 0
12100	-29.80	PASS	LIMIT 0
12200	-29.90	PASS	LIMIT 0
12300	-29.90	PASS	LIMIT 0
12400	-30.00	PASS	LIMIT 0
12500	-30.10	PASS	LIMIT -25
12600	-30.00	PASS	LIMIT -25
12700	-30.00	PASS	LIMIT -25
12800	-30.10	PASS	LIMIT -25
12900	-30.10	PASS	LIMIT -25
13000	-30.20	PASS	LIMIT -25
13100	-30.40	PASS	LIMIT -25
13200	-30.40	PASS	LIMIT -25
13300	-30.80	PASS	LIMIT -25
13400	-31.00	PASS	LIMIT -25
13500	-31.80	PASS	LIMIT -25
13600	-31.30	PASS	LIMIT -25
13700	-31.30	PASS	LIMIT -25
13800	-31.90	PASS	LIMIT -25
13900	-31.90	PASS	LIMIT -25
14000	-31.40	PASS	LIMIT -25
14100	-31.30	PASS	LIMIT -25
14200	-32.00	PASS	LIMIT -25
14300	-32.00	PASS	LIMIT -25
14400	-32.00	PASS	LIMIT -25
14500	-32.00	PASS	LIMIT -25
14600	-32.00	PASS	LIMIT -25
14700	-32.00	PASS	LIMIT -25
14800	-31.90	PASS	LIMIT -25
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CENTER FREQ PASS AT 121.5018E6

-25DB MAX VALUE FOR 12.5K TO 24.99K
 -30DB MAX VALUE FOR 25.0K TO 44.00K
 -25DB MAX VALUE FOR -12.5K TO -24.99K
 -30DB MAX VALUE FOR -25.0K TO -44.00K

12600 -30.00
 26900 -32.90
 -12600 -29.40
 -25200 -34.50

BEACON 121 SIDEBAND PASS

BEACON SN 2007_11_21_02
 TIME START 6:21PM
 DATE START 11/21/02

[Handwritten signature]
 ORL
 SQ01
 DME
[Handwritten initials]

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200	-.10	PASS	LIMIT 0
300	-.10	PASS	LIMIT 0
400	-.60	PASS	LIMIT 0
500	-.80	PASS	LIMIT 0
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700	-2.20	PASS	LIMIT 0
800	-3.60	PASS	LIMIT 0
900	-4.20	PASS	LIMIT 0
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-44000	-40.20	PASS	LIMIT -30
-44100	-40.20	PASS	LIMIT -30

CENTER FREQ PASS AT 243.0030E6

-25DB MAX VALUE FOR 12.5K TO 24.99K
-30DB MAX VALUE FOR 25.0K TO 44.00K
-25DB MAX VALUE FOR -12.5K TO -24.99K
-30DB MAX VALUE FOR -25.0K TO -44.00K

12500 -29.60
25800 -35.30
-13800 -29.70
-25800 -34.60

BEACON 243 SIDEBAND PASS

BEACON SN 2007_11_21_02

TIME START 6:25PM

DATE START 11/21/02

Handwritten signature

ORL
SO01
DME
Handwritten initials

0	.00	PASS	LIMIT 0
50	-.40	PASS	LIMIT 0
100	-1.20	PASS	LIMIT 0
150	-2.90	PASS	LIMIT 0
200	-2.50	PASS	LIMIT 0
260	-3.60	PASS	LIMIT 0
310	-4.90	PASS	LIMIT 0
360	-4.90	PASS	LIMIT 0
410	-4.90	PASS	LIMIT 0
460	-5.10	PASS	LIMIT 0
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560	-7.50	PASS	LIMIT 0
610	-10.10	PASS	LIMIT 0
660	-12.90	PASS	LIMIT 0
710	-13.90	PASS	LIMIT 0
770	-15.20	PASS	LIMIT 0
820	-16.60	PASS	LIMIT 0
870	-19.60	PASS	LIMIT 0
920	-18.40	PASS	LIMIT 0
970	-17.40	PASS	LIMIT 0
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1120	-16.00	PASS	LIMIT 0
1170	-15.10	PASS	LIMIT 0
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1890	-21.20	PASS	LIMIT 0
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2240	-23.60	PASS	LIMIT 0
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2450	-27.00	PASS	LIMIT 0
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2600	-26.30	PASS	LIMIT 0

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3670	-26.70	PASS	LIMIT -20
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-18710	-49.40	PASS	LIMIT -35
-18760	-48.00	PASS	LIMIT -35
-18820	-48.30	PASS	LIMIT -35
-18870	-49.80	PASS	LIMIT -35
-18920	-50.20	PASS	LIMIT -35
-18970	-50.20	PASS	LIMIT -35
-19020	-50.30	PASS	LIMIT -35
-19070	-50.00	PASS	LIMIT -35
-19120	-48.40	PASS	LIMIT -35
-19170	-48.10	PASS	LIMIT -35
-19220	-48.20	PASS	LIMIT -35
-19270	-48.70	PASS	LIMIT -35
-19330	-48.80	PASS	LIMIT -35
-19380	-50.50	PASS	LIMIT -35
-19430	-50.50	PASS	LIMIT -35
-19480	-49.10	PASS	LIMIT -35
-19530	-50.00	PASS	LIMIT -35
-19580	-50.10	PASS	LIMIT -35
-19630	-50.40	PASS	LIMIT -35
-19680	-51.40	PASS	LIMIT -35
-19730	-51.40	PASS	LIMIT -35
-19780	-50.70	PASS	LIMIT -35
-19840	-50.50	PASS	LIMIT -35
-19890	-49.20	PASS	LIMIT -35

-19940	-49.20	PASS	LIMIT -35
-19990	-49.70	PASS	LIMIT -35
-20040	-50.40	PASS	LIMIT -35
-20090	-50.80	PASS	LIMIT -35
-20140	-50.80	PASS	LIMIT -35
-20190	-50.80	PASS	LIMIT -35
-20240	-49.80	PASS	LIMIT -35
-20290	-49.10	PASS	LIMIT -35
-20350	-49.90	PASS	LIMIT -35
-20400	-49.50	PASS	LIMIT -35
-20450	-49.60	PASS	LIMIT -35
-20500	-51.00	PASS	LIMIT -35
-20550	-50.70	PASS	LIMIT -35
-20600	-50.70	PASS	LIMIT -35
-20650	-50.80	PASS	LIMIT -35
-20700	-50.60	PASS	LIMIT -35
-20750	-50.80	PASS	LIMIT -35
-20800	-50.60	PASS	LIMIT -35
-20860	-51.30	PASS	LIMIT -35
-20910	-51.60	PASS	LIMIT -35
-20960	-51.90	PASS	LIMIT -35
-21010	-51.50	PASS	LIMIT -35
-21060	-50.30	PASS	LIMIT -35
-21110	-50.50	PASS	LIMIT -35
-21160	-50.60	PASS	LIMIT -35
-21210	-51.00	PASS	LIMIT -35
-21260	-51.70	PASS	LIMIT -35
-21310	-53.80	PASS	LIMIT -35
-21370	-52.10	PASS	LIMIT -35
-21420	-52.10	PASS	LIMIT -35
-21470	-51.90	PASS	LIMIT -35
-21520	-52.00	PASS	LIMIT -35
-21570	-52.30	PASS	LIMIT -35
-21620	-52.30	PASS	LIMIT -35
-21670	-53.10	PASS	LIMIT -35
-21720	-53.70	PASS	LIMIT -35
-21770	-53.80	PASS	LIMIT -35
-21820	-53.70	PASS	LIMIT -35
-21880	-52.40	PASS	LIMIT -35
-21930	-51.50	PASS	LIMIT -35
-21980	-52.00	PASS	LIMIT -35
-22030	-52.00	PASS	LIMIT -35
-22080	-53.70	PASS	LIMIT -35
-22130	-53.80	PASS	LIMIT -35
-22180	-53.70	PASS	LIMIT -35
-22230	-52.00	PASS	LIMIT -35
-22280	-51.90	PASS	LIMIT -35
-22330	-52.20	PASS	LIMIT -35
-22390	-51.00	PASS	LIMIT -35
-22440	-51.20	PASS	LIMIT -35
-22490	-52.40	PASS	LIMIT -35
-22540	-53.90	PASS	LIMIT -35

-22590	-54.70	PASS	LIMIT -35
-22640	-53.50	PASS	LIMIT -35
-22690	-53.00	PASS	LIMIT -35
-22740	-53.60	PASS	LIMIT -35
-22790	-53.60	PASS	LIMIT -35
-22840	-53.20	PASS	LIMIT -35
-22900	-54.10	PASS	LIMIT -35
-22950	-54.40	PASS	LIMIT -35
-23000	-53.30	PASS	LIMIT -35
-23050	-53.30	PASS	LIMIT -35
-23100	-53.40	PASS	LIMIT -35
-23150	-53.40	PASS	LIMIT -35
-23200	-52.60	PASS	LIMIT -35
-23250	-52.70	PASS	LIMIT -35
-23300	-53.80	PASS	LIMIT -35
-23350	-53.80	PASS	LIMIT -35
-23400	-53.40	PASS	LIMIT -35
-23460	-53.20	PASS	LIMIT -35
-23510	-53.40	PASS	LIMIT -35
-23560	-53.00	PASS	LIMIT -35
-23610	-53.00	PASS	LIMIT -35
-23660	-55.50	PASS	LIMIT -35
-23710	-54.80	PASS	LIMIT -35
-23760	-54.60	PASS	LIMIT -35
-23810	-53.60	PASS	LIMIT -35
-23860	-53.40	PASS	LIMIT -35
-23910	-54.20	PASS	LIMIT -35
-23970	-53.60	PASS	LIMIT -35
-24020	-53.50	PASS	LIMIT -40
-24070	-55.80	PASS	LIMIT -40
-24120	-55.80	PASS	LIMIT -40
-24170	-54.60	PASS	LIMIT -40
-24220	-54.00	PASS	LIMIT -40
-24270	-52.80	PASS	LIMIT -40
-24320	-53.70	PASS	LIMIT -40
-24370	-55.80	PASS	LIMIT -40
-24420	-57.30	PASS	LIMIT -40
-24480	-58.10	PASS	LIMIT -40
-24530	-54.10	PASS	LIMIT -40
-24580	-54.10	PASS	LIMIT -40
-24630	-55.40	PASS	LIMIT -40
-24680	-56.50	PASS	LIMIT -40
-24730	-56.50	PASS	LIMIT -40
-24780	-57.60	PASS	LIMIT -40
-24830	-55.70	PASS	LIMIT -40
-24880	-56.10	PASS	LIMIT -40
-24930	-55.50	PASS	LIMIT -40
-24990	-54.90	PASS	LIMIT -40
-25040	-52.10	PASS	LIMIT -40
-25090	-51.20	PASS	LIMIT -40

CENTER FREQ PASS AT 406.02810E6

-20DB MAX VALUE FOR 3K TO 6.99K	3010	-25.60
-30DB MAX VALUE FOR 7K TO 11.99K	7040	-35.00
-35DB MAX VALUE FOR 12K TO 23.99K	12600	-42.60
-40DB MAX VALUE FOR 24K TO 25K	25090	-50.40
-20DB MAX VALUE FOR -3K TO -6.99K	-3010	-24.60
-30DB MAX VALUE FOR -7K TO -11.99K	-7090	-34.40
-35DB MAX VALUE FOR -12K TO -23.99K	-12340	-41.40
-40DB MAX VALUE FOR -24K TO -25K	-25090	-51.20

BEACON 406 SIDEBAND PASS
BEACON SN 2007_11_21_02
TIME START 6:30PM
DATE START 11/21/02

1A 45
12/11/02
ORL
SQ01
DME
KK