

APPENDIX 5

TEST DATA



REQUIRED TEST DATA
(Per 47 CFR Ch I, 2.1033(c)(14))

406 MHz Test Data Cross Reference

<u>FCC REF.</u>	<u>RTCM RECOMMENDED STANDARDS FOR SSAS</u>	ACR/RLB-32/33 T/A APPLICATION, APPENDIX 6: INTESPACE <u>TEST REPORT</u>
2.1046	4.2.2 Output Power	pg. 8
2.1047	4.2.4 Data Encoding	pg. 10
	4.2.5 Modulation	pg. 10
2.1049	4.2.1 Occupied Bandwidth	pg. 10
2.1051, 2.1053	4.2.3 Spurious Emissions	pg. 10
2.1055	4.2.1 Frequency Stability	pg. 10
2.057	4.2.3 Frequency Spectrum	pg. 10

SSAS Specific Test Data: See Table 5-1 below

TABLE 5-1: SSAS SPECIFIC REQUIREMENTS

RTCM Standards for SSAS Paragraph	Requirement	Units	Test Results	Comments
4.2.6	SSAS Digital Message	√	√	See printout for Self-Test (pg. 5-5) and Live (pg. 5-6) bursts
4.3.1.1	Unit is always in one of 4 operational states	√	√	
4.3.1.1, a)	Meets OFF state requirements	√	√	
4.3.1.1, b)	Meets READY state requirements	√	√	
4.3.1.1, c)	Meets ON state requirements	√	√	
4.3.1.1, d)	Meets SELF-TEST state requirements	√	√	
4.3.1.2	Unit can be placed in OFF, READY, or SELF-TEST states by switch directly on it	√	√	3-Way thumb switch
4.3.1.2, 4.3.2	Unit can be placed in ON state only when in READY state and remotely activated	√	√	
4.3.1.2, 4.3.2	Unit cannot be activated by controls directly on it	√	√	
4.3.1.2	Unit deactivated only by control directly on it	√	√	Deactivated only by placing thumb switch in Off position
4.3.1.2	Controls clearly and durably marked	√	√	
4.3.1.2, 4.3.2	Controls designed to prevent inadvertent activation	√	√	
4.3.1.2	SSAS has at least two remote activation points	√	√	Two switches supplied by ACR with each unit
4.3.1.2	Unit latches ON	√	√	See schematics, Appendix 2
4.3.1.2, 4.3.2	Activation points require two independent mechanical actions	√	√	Lift cover and press button
4.3.1.2, 4.3.2	Activation points protected against inadvertent activation	√	√	Spring-loaded cover must be lifted
4.3.1.2	Tuning not required to send security alert	√	√	
4.3.1.2	No alarm or indication of activation on ship	√	√	
4.3.1.3	Indicators observable to operator with physical access	√	√	

RTCM Standards for SSAS Paragraph	Requirement	Units	Test Results	Comments
4.3.1.3	Indicators do not attract attention unnecessarily	√	√	
4.3.1.3	No acoustic output devices for READY or ON states	√	√	Buzzer for SELF-TEST only
4.3.1.3	Indicator for ON state on the unit	√	√	Flashing red LED
4.3.1.3	Indicator for READY state on the unit	√	√	“ ” symbol on thumb switch
4.3.1.3	Indicator for SELF-TEST state on the unit	√	√	Buzzer, red and green LED sequence
4.3.2	Modes of operation not apparent from remote activation points	√	√	
4.3.2	Unit can not be accidentally activated or deactivated by normal maritime environment	√	√	
4.3.2	After activation, the unit does not transmit until one repetition period has elapsed, then transmits immediately	√	√	
4.3.2.1	SELF-TEST tests battery	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.2.1	SELF-TEST tests 406 MHz RF output	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.2.1	SELF-TEST tests availability of navigation input	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.2.1	SELF-TEST tests phase lock of 406 MHz PLL	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.2.1	SELF-TEST is functional throughout operating temperature range	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.2.1	SELF-TEST digital message	√	√	See printout for Self-Test burst (pg. 5-5)
4.3.2.1	SELF-TEST switch has separate position	√	√	Thumb switch in vertical position
4.3.2.1	SELF-TEST switch returns from test position	√	√	Thumb switch is spring-loaded
4.3.2.1	SELF-TEST performance over temperature	√	√	See ACR/RLB-32/33 T/A APPLICATION

RTCM Standards for SSAS Paragraph	Requirement	Units	Test Results	Comments
4.3.3.2	Battery Lifetime	√	√	See ACR/RLB-32/33 T/A APPLICATION
4.3.3.3	Ease of battery replacement	√	√	
4.3.3.3	Battery safety precautions	√	√	
4.4.1	General construction	√	√	
4.4.2.1	Battery labeling	√	√	
4.4.2.2	SSAS labeling	√	√	See Labels, Appendix 3
4.4.3	Equipment Manual	√	√	See Manual, Appendix 1

ACR EPIRB TEST VERIFICATION REPORT
SSAS (2800) United States (366)
MMSI: 123456

PASSED

Protected Message.....2DD83C4800FFBFF
Total Message.....FFED096EC1E24007FDFF8147E340
Bit Synchronization.....OK
Frame Synchronization.....Test
Message Format.....Long
Protocol Flag.....Standard
Country.....United States (366)
Message Protocol.....SSAS - MMSI
MMSI.....123456
EPIRB Number.....1
Latitude Heading.....North
Latitude Degrees (Default).....OK - 127.75 degrees (Default)
Longitude Heading.....East
Longitude Degrees (Default).....OK - 255.75 degrees (Default)
Homing Facility.....NO 121.5 MHz
Error Correction Code.....OK
Supplementary Data.....34 hex



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ACR EPIRB TEST VERIFICATION REPORT
SSAS (2800) United States (366)
MMSI: 123456

PASSED

Protected Message.....2DD83C4800FFBFF
Total Message.....FFFE2F96EC1E24007FDFF8147E3483E0FCCA
Bit Synchronization.....OK
Frame Synchronization.....Live
Message Format.....Long
Protocol Flag.....Standard
Country.....United States (366)
Message Protocol.....SSAS - MMSI
MMSI.....123456
EPIRB Number.....1
Latitude Heading.....North
Latitude Degrees (Default).....OK - 127.75 degrees (Default)
Longitude Heading.....East
Longitude Degrees (Default).....OK - 255.75 degrees (Default)
Homing Facility.....NO 121.5 MHz
Error Correction Code.....OK
Supplementary Data.....34 hex



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