

EUT AND PRODUCT INFORMATION

Type of Equipment	UPCS (DECT 6.0)	
Applicant Name	Peter Söderberg	
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Brand Name	Ascom	

	BASE STATION	HANDSET / PORTABLE	Wireless Relay Station / Repeater	
EUT Type/System				
Modular Approval	☐ YES ☐ LMA	☐ YES ☐ LMA	☐ YES ☐ LMA	
FCC ID		BXZSH2D		
ISED ID (Canada)		3724B-SH2D		
Model name		SH2-ADAA		
HVIN		SH2-ADAA		
PMN				
HW Version		P2A		
SW Version		SH2_ADAA/2.0.0_alpha6		
Maximum Antenna Gain		2dBi		
Is EUT Initiating Device	☐ YES	⊠ YES	☐ YES	
Does EUT transmit signaling channels	☐ YES	☐ YES	□ YES	
Number of slots in use simultaneously				
Frequency Band	1921.536 – 1928.448 MHz			
Number of RF Channels	5			
Frame Period	10 ms			
Max. Burst length				
Min. Burst Length				
Number of System Channels	5 RF Channels, 5x12 = 60 TDMA Duplex Channels			
Supported DECT Slot Types		☐ Long Slot ☐ Double Slot		
Operating Mode	☐ Simplex	⊠ Duplex		

ANTENNA DIVERSITY				
	Antenna	Diversity Supported		
		TX	RX	
Base Station	1			
	2			
	3			
	4			
Handset	1	\boxtimes		
	2			



Base Station	Antenna	Тур	oe e		Internal	External	
	1						
	2						
	3						
	4						
	Does RX and TX	use the same antenna(s)?		□ Ye	s	□ No	
Handset	Antenna	Тур	oe .		Internal	External	
	1	LDS an	tenna		\boxtimes		
	2	LDS an	tenna		\boxtimes		
	3						
	Does RX and TX	use the same antenna(s)?		⊠ Ye	s	□ No	
VOLTAGE AND	TEMPERATURE RA	NGES					
VOLTAGES		Base Station	Handset	or Portable		WRS	
Nominal Voltage			3	.8V			
Cut-Off Voltage (T			
POWER SOURCE		Туре			Manufacturer		
Base Station or WRS							
Handset (Charger)							
Connections on	Base	□ PSTN □ USB □ Ethernet □ Others (please specify)					
ANCILLARY EQU	JIPMENT						
Description							
Туре							
Manufacturer	Manufacturer Manufacturer						
HOST DEVICE							
Description							
Туре							
Manufacturer							
ADDITIONAL INFORMATION							



MANUFACTURERS DECLARATIONS				
FCC part 15.323 (c)(5)	FCC part 15.323 (c)(5)			
The applicant declares that the system in this application has more than 20 duplex system access channels defined, and that the system is operating in Least Interfered Channel (LIC) mode in accordance with this section.				
Applicant Agrees	pplicant Agrees			
FCC part 15.323 (c)(5)				
No device or group of co-operating devices located within 1m of each other shall during any frame period occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.				
Applicant Agrees	⊠ Yes	□No		
FCC part 15.323 (c)(10)				
The applicant hereby declares that the system in this application does use the criteria of (c)(10) of this section.				
Applicant Agrees	⊠ Yes	□ No		
FCC part 15.323 (c)(11)				
The applicant hereby declares that s section.	The applicant hereby declares that system in this application does not use the criteria of (c)(11) of this section.			
Applicant Agrees	⊠ Yes	□No		
FCC part 15.323 (c)(12)				
The provisions of (c)(10) or (c)(11) of this section shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.				
Applicant Agrees	⊠ Yes	□No		
ADDITIONAL REMARKS:				
>				
DECLARED BY:				
2020-03-31 Peter	Peter Söderberg			
Date Name	(print) Signature			



About this document

This document specifies the information that is needed to select the correct testcases and test procedures for testing to FCC Part 15D. The form must be completed by the applicant and submitted to Nemko before testing is started.

Preparation of Equipment for Testing

Note (a): Number of samples for testing

The following samples are needed for FCC 15D testing:

RF Conducted Tests:

One sample with a 50 ohm antenna connector (preferably SMA Female). Only one antenna connector is needed for these tests even if the equipment has more than one antenna.

Monitoring Tests:

One sample with 50 ohm antenna connectors fitted to all antennas (preferably SMA female). Additionally we need a companion device that will work together with the EUT, the companion device must also have antenna connectors on all antennas.

Radiated Tests:

One sample with integral antennas. This sample will be used to measure Antenna Gain, Part 15B and Power-Line Conducted tests.

Note (b): Burst Mode

All RF tests are performed with the EUT in force transmit, aka burst mode. Software and necessary programming tools must be submitted to Nemko together with the test samples before start of testing.

Note (c): Monitoring Tests

Monitoring tests are performed in normal operating mode by establishing a connection from the handset (or the initiating device) to the base station (or the responding device). Most tests are performed by establishing connections from the initiating device to the responding device and observing which channel and/or timeslot is used.

For monitoring tests we need a EUT and a Companion device that both have antenna connectors on all antennas (preferably SMA female, again). Additionally, we need access to the CLK100 signal on the Base Station, this is necessary because some of the tests require that the interferers are synced to the DECT frame.

Note (d): Connection to an external power supply

Means of connecting the equipment to an external power supply shall be supplied by the applicant together with the equipment to be tested.

Battery operated equipment shall be supplied with the necessary batteries and chargers. All tests on battery operated equipment will be performed with batteries.

Note (e): Test-Mode (Loopback Mode)

Loopback Mode is usually not used for FCC testing.