

## Fault Analysis SSE C-STAR Transceiver System

SatService GmbH Return Fax Number	*49 7738 9700 5
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Company	
Contact	
Phone Number	
Fax Number	

Part Number Transceiver	
S/N Number Transceiver	
Part Number LNC	
S/N Number LNC	

<b>Customer Description of Failure</b>

<b>Specify the Satellite/Transponder Tx/Rx Frequency used for Operation</b>	
<b>Transmit Frequency</b>	<b>(e.g. 6263,5MHz):</b>
<b>Receive Frequency</b>	<b>(e.g. 4038,7MHz):</b>

<b>Specify the Modulator and Demodulator IF Frequency used for Operation</b>	
<b>Modulator IF Frequency</b>	<b>(e.g. 70,5MHz):</b>
<b>Demodulat. IF Frequency</b>	<b>(e.g. 60,7MHz):</b>

<b>Specify the programmed Rx/Tx Transceiver Frequency (M&amp;C or Hand Held Terminal)</b>	
<b>Transceiver Tx Frequency</b>	<b>(e.g. 6263MHz):</b>
<b>Transceiver Rx Frequency</b>	<b>(e.g. 4038MHz):</b>

If possible measure via Power Meter and/or Spectrum Analyzer following set of Parameters and generate Plots

<b>Measure the Transmit IF Input Level at Transceiver Tx Input</b>	
<b>Transmit Gain</b>	<b>(i. g. TG=53):</b>
<b>IF Level</b>	<b>(i. g. -20dBm):</b>

<b>Measure the Transmit Power of RF Carrier via Coupler (e. g. 30dB Coupler)</b>	
<b>Coupler Factor</b>	<b>(i. g. 30dB):</b>
<b>Measured RF Power at Coupler Output</b>	<b>(i. g. 2dBm):</b>

<b>Measure with a Volt Meter the LNC DC Voltages (N-Connector to LNC)</b>	
<b>Voltage PIN and Ground</b>	<b>(e. g. +15VDC):</b>
<b>10MHz LNC Reference Signal</b>	<b>(e. g. 10MHz at 0dbm)</b>
<b>Specify RF Band</b>	<b>(e. g. C-Band):</b>
<b>Receive Gain</b>	<b>(e. g. RG=2):</b>
<b>Rx L-Band Input Frequency</b>	<b>(e. g. 950MHz):</b>
<b>LNC LO Frequency</b>	<b>(e.g. 5150MHz):</b>

<b>Measure the Receive IF Output Level at Transceiver Rx Output</b>	
<b>L-Band Level</b>	<b>(e. g. -40dBm):</b>
<b>Rx IF Output Level</b>	<b>(i. g. -5dBm):</b>