

9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Jun.30,19	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	Oct.14,18	1 Year
3.	RF Cable	Mini-Circults	CBL-1M-SMSM+	No.4	Oct.14,18	1 Year

9.2.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3.Test Procedure

Use the test method descried in ANSI C63.10 clause 11.10.2:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



9.4.Test Results

EUT: COSMO						
M/N: COSMO COMMUNICATOR VE						
Test date: 2019-08-19	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%				
Tested by: Garry	Test site: RF site	Temperature: 25.5±0.6 °C				

		Power density	Limit	
Test Mode	СН	(dBm/3KHz)	(dBm/3KHz)	
	CH1	-11.233		
11b	CH6	-11.625	8	
	CH11	-11.970]	
	CH1	-11.904		
11g	СН6 -12.615		8	
	CH11	-12.741		
11	CH1	-12.862	8	
	CH6	-12.929		
П120	CH11	-12.691		
11	CH3	-14.442		
	CH6	-14.590	8	
п140	CH9	-13.477		
Conclusion : P.	ASS			











10. ANTENNA REQUIREMENT

10.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are MONOPOLE antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -0.1dBi.



11.DEVIATION TO TEST SPECIFICATIONS

[NONE]

----- End of Report