

5.2 Radiated power of the fundamental wave

For test instruments and accessories used see section 6 Part CPR 2.

5.2.1 Description of the test location

Test location: OATS1

Test distance: 3 metres

5.2.2 Photo documentation of the test set-up



FCC ID: OYGTSSRE3TB

5.3 Radiated emissions (electric field) 30 MHz – 18 GHz

For test instruments and accessories used see section 6 Part SER 2, SER 3.

5.3.1 Description of the test location

Test location: OATS1
Anechoic Chamber A2

Test distance: 3 metres

5.3.2 Photo documentation of the test set-up



5.4 Correction for Pulse Operation (Duty Cycle)

For test instruments and accessories used see section 6 Part DC.

5.4.1 Description of the test location

Test location: AREA4

5.4.2 Photo documentation of the test set-up



5.4.3 Description of Measurement

The Duty cycle factor, expressed in dB, is arrived by taking the following formula:

$$KE = 20 \log [(t_{iB} \cdot p) / T_w]$$

KE: pulse operation correction factor [dB]
 t_{iw} : pulse duration for one complete pulse track [msec]
 t_{iB} : pulse duration for one pulse [μ sec]
 T_w : a period of the pulse track [msec]
 p : number of pulses in one train

5.4.4 Test result

Duty cycle	t_{iw} [msec]	T_w [msec]	t_{iB} [msec]	p	KE [dB / %]
Real Duty cycle					
Within 100 msec		100	10.25	1	-19.78 / 10.25

Remarks: The pulse train [T_w] exceeds 100 ms, therefore the duty cycle have been calculated by averaging the sum of the pulsewidths over the 100 ms width with the highest average value.
For detailed results, please see the test protocol below.

5.5 Emission Bandwidth

For test instruments and accessories used see section 6 Part MB.

5.5.1 Description of the test location

Test location: AREA4

5.5.2 Photo documentation of the test set-up



5.5.3 Test result

Fundamental [MHz]	20dB Bandwidth F1 [MHz]	20dB Bandwidth F2 [MHz]	Measured Bandwidth [kHz]	LIMIT Fundamental $f \cdot 0,0025$ [kHz]
315.0	314.9469	315.0450	98.1	787.5

Limit according to FCC Part 15 Subpart 15.231(c):

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

The requirements are **FULFILLED**.

Remarks: For detailed results, please see the test protocol below.

FCC ID: OYGTSSRE3TB

5.6 Signal deactivation

For test instruments and accessories used see section 6 Part MB.

5.6.1 Description of the test location

Test location: AREA4

5.6.2 Photo documentation of the test set-up



5.6.3 Test result

The duration of the transmission is 10.3 milliseconds each time the Trigger Transmitter TSSTSc triggered the EuT which meets the requirement of ceasing transmission within 5 seconds.

Limit according to FCC Part 15 Subpart 15.231(a):

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released and a transmitter activated automatically shall cease transmission within 5 seconds after activation.

The requirements are **FULFILLED**.

Remarks: For detailed test results, please see the test protocol below.

6.2 Radiated emissions (electric field)

For test instruments and accessories used see section 6 Part **SER 1**.

6.2.1 Description of the test location

Test location: OATS1

6.2.2 Photo documentation of the test set-up

