





Test Report - RF Exposure Evaluation Report for SAR Exclusion

Applicant: Escort Incorporated

Approved for Release By:

Signature:	Bruno Chaver		
Name & Title:	Bruno Clavier, General Manager		
Date of Signature	10/31/2022		

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Customer Information

Applicant: Escort Incorporated
Address: 5440 West Chester Road

West Chester, Ohio, 45069, United States

Location of Testing

1.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780
FCC Designation # US1070
FCC site registration is under A2LA certificate # 0955.01
ISED Canada test site registration # 2056A
EU Notified Body # 1177
For all designations see A2LA scope # 0955.01

1.2 Testing was performed, reviewed by

Dates of Testing: 10/3/2022-10/20/2022

	Sr. EMC Engineer	
Signature:	EMC-003838-NE WARIL	
Name & Title:	Tim Royer, EMC Engineer	
Date of Signature	10/31/2022	
Signature:	LH CL	
Name & Title:	Kristoffer Costa, EMC Technician	
Date of Signature	10/31/2022	

Test Sample(s) (EUT/DUT)

The test sample was received: 09/27/2022

1.3 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification				
FCC ID:	QKLMAX3V2			
Brief Description	Radar Detector with BLE			
Model(s) #	MAX 3			
Firmware version	N/A			
Software version	N/A			
Serial Number	N/A			

Technical Characteristics				
Technology	Radar Detector with BLE			
Frequency Range	2402 – 2480 MHz			
Duty Cycle	100%			
Antenna Connector	N/A			
Voltage Rating (AC or Batt.)	13.8 VAC			

SAR EXCLUSION CALCULATION:

Section 4.3.1 General SAR test exclusion guidance

Equation:

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 30 where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

RSS 102 Section 2.5 Exemption Limits for Routine Evaluation

Equation:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 4.49/f^{0.5} W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

Conclusion: SAR testing is not required.

MHz

MPE Max Power + Max Power + Limit for 10-g Limit for 1-g Frequency Separation SAR Exclusion Tolerance SAR SAR Exclusion Tolerance Band Distance (mm) Value SAR (Extremeties) (mW) (dBm) 2400-2483.5 5 1.25 1.33 0.42 3.0 7.5 SAR EXEMPT

History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_4407-22_RF Exp SAR Exclusion_	1	Initial release	10/10/2022
	2	Updated frequency range Page 5	10/31/2022

END OF TEST REPORT