Attachment MPE

Type / Model Name	:	mURM ver. 2.0
Product Description	:	UHF RFID Reader
Applicant	:	TSS COMPANY s.r.o.
Address	:	Pod Rovnicami 41
		84104 Bratislava
		SLOVAKIA
Manufacturer	:	TSS COMPANY s.r.o.
Address	:	Pod Rovnicami 41
		84104 Bratislava
		SLOVAKIA

Attachment to Test Report No. :	**T42777-00-00JP**	02. October 2018 Date of issue

Deutsche Akkreditierungsstelle
D-PL-12030-01-01
D-PL-12030-01-02

Contents

1 SAR Test Exclusion Threshold calculation - FCC

The calculation is done according to:
KDB 447498 D01 General RF Exposure Guidance v06

Calculation formula according to KDB 447498 D01 Part 4.3.1a)
$(\max power\ of\ transmitter\ [mW])\ \div (min.test\ separation\ distance\ [mm]) \times (\sqrt{TX\ frequency[GHz]} \leq 3.0$

Calculation :

Max power[1] [mW]	Separation distance[2] [mm]	TX frequency[3] [GHz]	Result	Limit[4]	verdict
26	15	0.92725	1.7	3.0	Requirement fullfilled

[1]maximum power of the transmitter according to datasheet mURMver2.0_Operational_Description, page 12 table 4
[2]minimum separation distance according to datasheet mURMver2.0_Operational_Description, page 12 table 11
[3]maximum transmission frequency according to datasheet mURMver2.0_Operational_Description, page 12 table 1
[4]applicable exclusion limt according to KDB 447498 D01

2 RF Exposure – Exemption Limits - ISED

The calculation is done according to:
RSS-102 Issue 5, March 2015

Calculation of EIRP:

Max power conducted[1] [mW]	Antenna gain[2] [dB]	Antenna gain[2] (Factor)	Max power EIRP [mW]	Antenna type
26	4.5	2.9	76	DAE915R7865AGDZ1-T
26	1.5	1.4	37	DAE915R3540CGDD3-T

[1]maximum power conducted according to datasheet mURMver2.0_Operational_Description, page 12 table 4
[2]antenna gain according to datasheet mURMver2.0_Operational_Description, page 12 table 11

Comparission with Exemtion limits according to Table 1 of RSS-102

TX frequency[1] [MHz]	Separation distance[2] [mm]	Max power EIRP [mW]	Applicable exemption limit[3] [mW]	verdict	Antenna type
927,25	30	76	81	Requirement fullfilled	DAE915R7865AGDZ1-T
927,25	15	37	40	Requirement fullfilled	DAE915R3540CGDD3-T

[1]maximum transmission frequency according to datasheet mURMver2.0_Operational_Description, page 12 table 1
[2]minimum separation distance according to datasheet mURMver2.0_Operational_Description, page 12 table 11
[3]apllicable exemption limit according to RSS-102, linear interpolation was made to get the limit for 927,25 MHz