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**Retlif Testing Laboratories Job No. R-3578P-5A, Rev. B**

**For**

**Siemens Mobility, Inc.**

**Zub Track Tester and Wayside Transponder (TCC)**

**Zub Track Tester FCC ID: 2A8HRS25060-X44-H5  
TCC FCC ID: 2A8HRS25442-MX-A1**

**Requirement: 1.1310(d)(2), Radiofrequency Radiation Exposure Limits**



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## **Requirements and Test Results**

### **Requirement: 1.1310(d)(2), Radiofrequency Radiation Exposure Limits**

For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in [paragraph \(e\)\(1\)](#) of this section, may be used instead of whole-body SAR limits as set forth in [paragraphs \(a\)](#) through [\(c\)](#) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#), except for portable devices as defined in [§ 2.1093 of this chapter](#) as these evaluations shall be performed according to the SAR provisions in [§ 2.1093](#).

Table 1 FCC [§ 1.1310\(e\)\(1\)](#) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

### **Requirement: KDB 680106**

For frequencies below 100 kHz the limits for frequencies below 100 kHz are 90 A/m for magnetic field strength and 83 V/m for electric field strength.

### **Conclusion**

During all measurements the height of the measurement probe was varied in order to produce the maximum emissions levels. The data presented is the worst case.

Electric and Magnetic field strength readings have been performed with all transmitters operating at each of the operating frequencies. These measurements show that a separation distance of 20 cm is required to comply with the FCC specified limits for frequencies above 300 kHz (850 kHz transmission).

For frequencies at and below 100 kHz (50 and 100 kHz transmission) a separation distance of 20 cm is required in order to comply with the requirements of KDB 680106.

## **Conclusion (cont'd)**

If the limit at 100 kHz is the 300 kHz limit extended downward, a separation distance of 20 cm is also required when used as specified by the manufacturer, installed on top of a Track Coupling Coil.

If the device is used in a standalone configuration, which is not in accordance with manufacturers instructions, the level measured at 20 cm exceeds the 300 kHz limit of 1.63 A/m by 0.33 A/m. In this configuration, the minimum separation distance was found to be 30 cm.

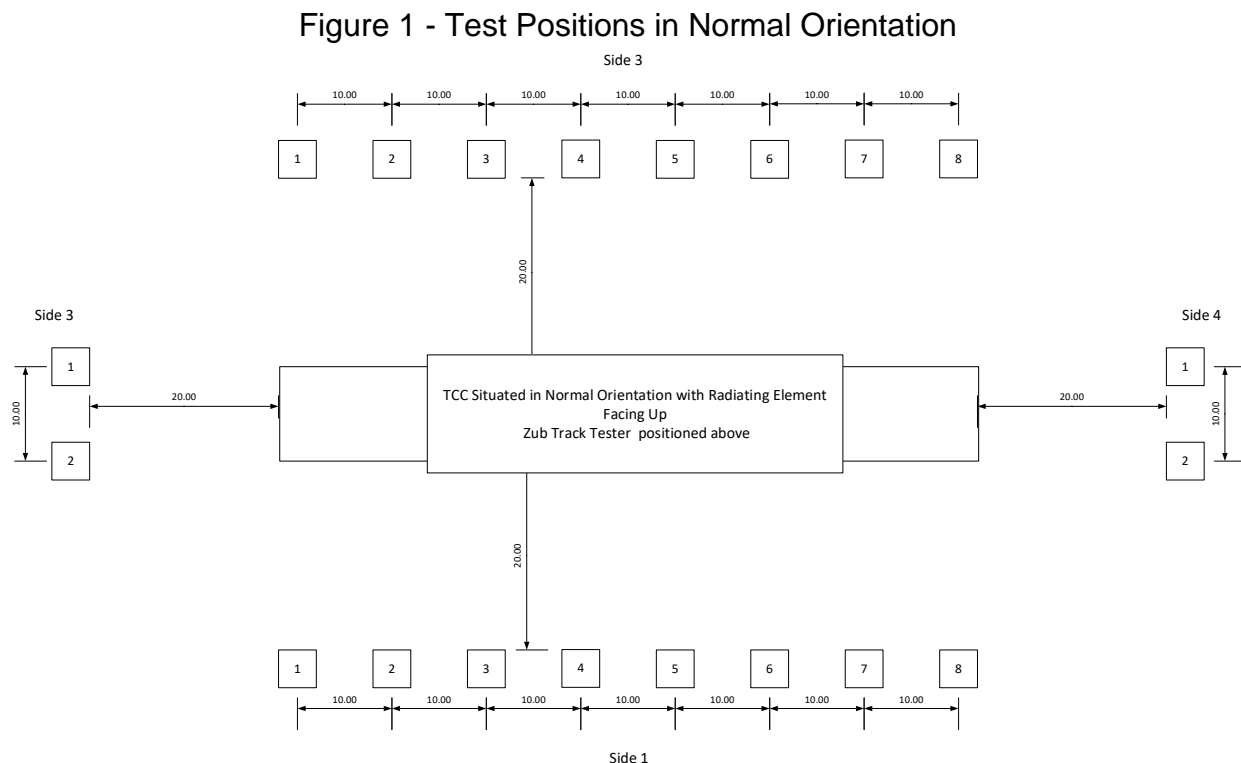
## Zub Track Tester with TCC, Orientations and Probe Positions Tested

The Zub Track Tester is a portable device used to communicate with the Track Coupling Coil (TCC) mounted on the rail bed next to the running rail. The device is always used such that the radiating surface is facing downwards, towards the TCC. In addition, the device is designed such that when the Zub Track Tester is placed directly on the TCC, the proper separation distance between the two devices is maintained.

Based on the installation of the Zub Track tester in use, evaluation of magnetic and electric field strengths was limited to each of the four sides of the Zub Track Tester installed on top of the TCC.

When evaluating the maximum levels of radiated magnetic and electric fields, the following steps were taken to ensure that the maximum values were recorded:

- 1) The measurement probe was moved along each surface of the Zub Track Tester / TCC Combination to determine the particular position which provided the highest measured field strength.
- 2) The height of the measurement probe relative to the Zub Track Tester / TCC Combination was varied to determine the height which produced maximum emissions.
- 3) At this height, measurements were taken at 10 cm intervals along each surface as shown below:



## Zub Track Tester with TCC Test Results

The frequencies of interest in this device include 50 kHz, 100 kHz and 850 kHz.

### 50 kHz:

This frequency is outside of the frequency range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 20 cm for all positions tested.

### 100 kHz:

This frequency is outside of the frequency range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 20 cm for all positions tested.

### 850 kHz:

This frequency is within the range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 20 cm for all positions tested.

## Zub Track Tester with TCC Equipment List

### FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
8322	ETS / EMCO	6512	ANTENNA, LOOP, 10 KHz - 30 MHz	00060485	4/30/2024
8619	OMEGA	OM-73	HYGROMETER, -20 to 70 deg. C, 0-99% RH	051442102C	4/30/2024
8749	RIGOL	DSA832E	ANALYZER, SPECTRUM, 9 kHz - 3.2 GHz	DSA8G201800133	5/31/2024
R849	NARDA	EHP-200A	ANALYZER, FIELD STRENGTH, 9 kHz - 30 MHz	180ZX00616	11/25/2023

**FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)  
Zub Track Tester with TCC Test Data**

## MPE CALCULATION DATA SHEET

<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester with Track Coupling Coil
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS); S25442-M1-A1-15.K (TCC)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS) ); 6101020657-007 (TCC)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 50 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23, 11/13/23

EUT Orientation	Magnetic Field Strength	Magnetic Limit from 300 kHz	Magnetic Limit Per KDB 680106	Electric Field Strength	Electric Limit From 300 kHz	Electric Limit Per KDB 680106
	A/m	A/m	A/m	V/m	V/m	V/m
<b>Measured At</b>	<b>20 cm</b>			<b>20 cm</b>		
Side 1, Position 1	0.24	1.63	90	1.51	614	83
Side 1, Position 2	0.34			1.72		
Side 1, Position 3	0.38			2.15		
Side 1, Position 4	0.42			2.35		
Side 1, Position 5	0.48			2.28		
Side 1, Position 6	0.44			1.80		
Side 1, Position 7	0.35			1.69		
Side 1, Position 8	0.28			1.95		
Side 2, Position 1	0.19			1.15		
Side 2, Position 2	0.24			1.19		
Side 3, Position 1	0.20			1.14		
Side 3, Position 2	0.24			2.02		
Side 3, Position 3	0.26			2.18		
Side 3, Position 4	0.27			2.15		
Side 3, Position 5	0.31			2.00		
Side 3, Position 6	0.29			2.01		
Side 3, Position 7	0.22			1.58		
Side 3, Position 8	0.19			1.03		
Side 4, Position 1	0.20			1.59		
Side 4, Position 2	0.23	1.63	90	1.69	614	83



## MPE CALCULATION DATA SHEET

<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester with Track Coupling Coil
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS); S25442-M1-A1-15.K (TCC)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS) ; 6101020657-007 (TCC)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 100 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23, 11/13/23

EUT Orientation	Magnetic Field Strength	Magnetic Limit from 300 kHz	Magnetic Limit Per KDB 680106	Electric Field Strength	Electric Limit From 300 kHz	Electric Limit Per KDB 680106
	A/m	A/m	A/m	V/m	V/m	V/m
<b>Measured At</b>	<b>20 cm</b>			<b>20 cm</b>		
Side 1, Position 1	0.50	1.63	90	2.45	614	83
Side 1, Position 2	0.96			3.01		
Side 1, Position 3	1.19			4.18		
Side 1, Position 4	1.42			5.19		
Side 1, Position 5	1.57			3.57		
Side 1, Position 6	1.19			5.07		
Side 1, Position 7	1.04			3.54		
Side 1, Position 8	0.98			3.01		
Side 2, Position 1	0.69			1.61		
Side 2, Position 2	0.80			1.40		
Side 3, Position 1	0.61			1.19		
Side 3, Position 2	0.91			1.78		
Side 3, Position 3	1.05			2.81		
Side 3, Position 4	1.24			4.25		
Side 3, Position 5	1.23			3.53		
Side 3, Position 6	0.98			2.95		
Side 3, Position 7	0.62			1.42		
Side 3, Position 8	0.66			1.08		
Side 4, Position 1	0.62			0.95		
Side 4, Position 2	0.73	1.63	90	0.94	614	83

## MPE CALCULATION DATA SHEET

<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester with Track Coupling Coil
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS); S25442-M1-A1-15.K (TCC)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS) ); 6101020657-007 (TCC)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 850 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23, 11/13/23

EUT Orientation	Magnetic Field Strength	Magnetic Limit	Electric Field Strength	Electric Limit
	A/m	A/m	V/m	V/m
Measured At	20 cm		20 cm	
Side 1, Position 1	0.1	1.63	0.36	614
Side 1, Position 2	0.1		0.36	
Side 1, Position 3	0.1		0.36	
Side 1, Position 4	0.1		0.36	
Side 1, Position 5	0.1		0.36	
Side 1, Position 6	0.1		0.36	
Side 1, Position 7	0.1		0.36	
Side 1, Position 8	0.1		0.36	
Side 2, Position 1	0.1		0.36	
Side 2, Position 2	0.1		0.36	
Side 3, Position 1	0.1		0.36	
Side 3, Position 2	0.1		0.36	
Side 3, Position 3	0.1		0.36	
Side 3, Position 4	0.1		0.36	
Side 3, Position 5	0.1		0.36	
Side 3, Position 6	0.1		0.36	
Side 3, Position 7	0.1		0.36	
Side 3, Position 8	0.1		0.36	
Side 4, Position 1	0.1		0.36	
Side 4, Position 2	0.1	1.63	0.36	614

**Zub Track Tester with TCC Test Photographs  
RF Exposure**

## Test Photographs RF Exposure



Test Setup



Side 1, Position 1, 20 cm

## Test Photographs RF Exposure



Side 1, Position 2, 20 cm



Side 1, Position 3, 20 cm

## Test Photographs RF Exposure



Side 1, Position 4, 20 cm



Side 1, Position 5, 20 cm

## Test Photographs RF Exposure



Side 1, Position 6, 20 cm



Side 1, Position 7, 20 cm



## Test Photographs RF Exposure



Side 1, Position 8, 20 cm



Side 2, Position 1, 20 cm



## Test Photographs RF Exposure



Side 2, Position 2, 20 cm



Side 3, Position 1, 20 cm

## Test Photographs RF Exposure



Side 3, Position 2, 20 cm



Side 3, Position 3, 20 cm

## Test Photographs RF Exposure



Side 3, Position 4, 20 cm



Side 3, Position 5, 20 cm

**Test Photographs  
RF Exposure**



Side 3, Position 6, 20 cm



Side 3, Position 7, 20 cm



## Test Photographs RF Exposure



Side 3, Position 8, 20 cm



Side 4, Position 1, 20 cm

**Test Photographs**  
**RF Exposure**



Side 4, Position 2, 20 cm

## Zub Track Tester without TCC, Orientations and Probe Positions Tested

The Zub Track Tester is a portable device used to communicate with the Track Coupling Coil (TCC) mounted on the rail bed next to the running rail. The device is always used such that the radiating surface is facing downwards, towards and directly on top of the TCC.

The data in this section covers the condition if the Zub Track Tester were to be activated without it being installed on the TCC.

Based on this scenario, additional evaluation of magnetic and electric field strengths was performed on the standalone Zub Track Tester (without TCC) on each of the four sides.

In addition, measurements were taken on the main lobe of the transmitter (the bottom of the Zub Track Tester which is intended to be placed on the TCC in normal operation) for reference only.

When evaluating the maximum levels of radiated magnetic and electric fields, the following steps were taken to ensure that the maximum values were recorded:

- 1) The measurement probe was moved along each surface of the Zub Track Tester to determine the particular position which provided the highest measured field strength.
- 2) The height of the measurement probe relative to the Zub Track Tester was varied to determine the height which produced maximum emissions.
- 3) At this height, measurements were taken at 10 cm intervals along each surface as shown below:

Figure 2 - Test Positions in Normal Orientation

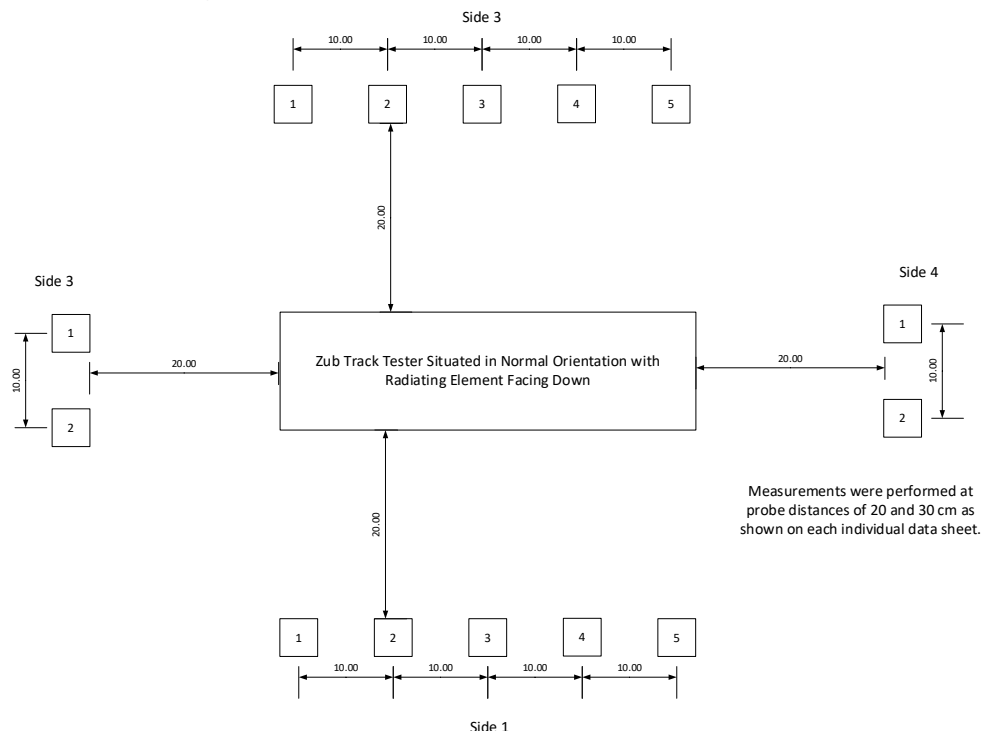
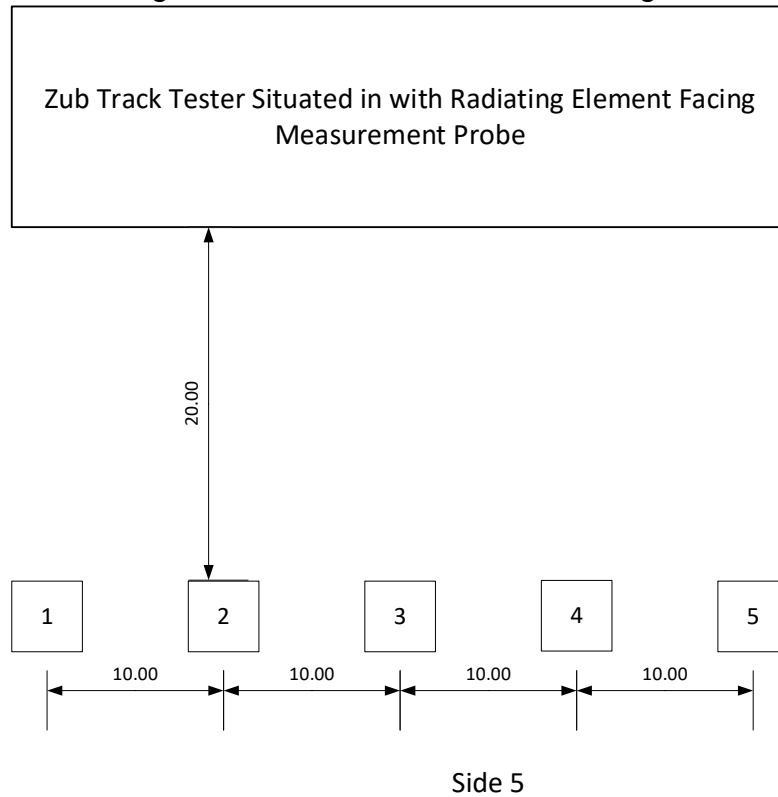


Figure 3 – Test Position 5, Measuring Main Lobe



\*Note: Position 5 data is provided as informative only as it is not an accessible location during normal usage.



## Zub Track Tester without TCC Test Results

The frequencies of interest in this device include 50 kHz, 100 kHz and 850 kHz.

### 50 kHz:

This frequency is outside of the frequency range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 20 cm for all positions tested including position 5.

### 100 kHz:

This frequency is outside of the frequency range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 30 cm.

Applying the limit of KDB 680106 yields a minimum required separation distance of 20 cm.

### 850 kHz:

This frequency is within the range for which limit levels are specified for electric and magnetic field strength.

Applying the limit for the 0.3 to 1.34 MHz range yields a minimum required separation distance of 20 cm for all positions tested, including position 5.

## Zub Track Tester without TCC Equipment List FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
8322	ETS / EMCO	6512	ANTENNA, LOOP, 10 KHz - 30 MHz	00060485	4/30/2024
8619	OMEGA	OM-73	HYGROMETER, -20 to 70 deg. C, 0-99% RH	051442102C	4/30/2024
8749	RIGOL	DSA832E	ANALYZER, SPECTRUM, 9 kHz - 3.2 GHz	DSA8G2018001	5/31/2024
R849	NARDA	EHP-200A	ANALYZER, FIELD STRENGTH, 9 kHz - 30 MHz	180ZX00616	11/25/2023

**FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)  
Zub Track Tester without TCC Test Data**

<b>MPE CALCULATION DATA SHEET</b>	
<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 50 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23

EUT Orientation	Magnetic Field Strength	Magnetic Limit from 300 kHz	Magnetic Limit Per KDB 680106	Electric Field Strength	Electric Limit From 300 kHz	Electric Limit Per KDB 680106
	A/m	A/m	A/m	V/m	V/m	V/m
<b>Measured At</b>	<b>20 cm</b>			<b>20 cm</b>		
Side 1, Position 1	0.18	1.63	90	1.12	614	83
Side 1, Position 2	0.30			1.72		
Side 1, Position 3	0.52			1.94		
Side 1, Position 4	0.55			1.69		
Side 1, Position 5	0.32			1.03		
Side 2, Position 1	0.18			0.85		
Side 2, Position 2	0.20			0.56		
Side 3, Position 1	0.20			1.16		
Side 3, Position 2	0.37			1.51		
Side 3, Position 3	0.55			1.82		
Side 3, Position 4	0.56			1.62		
Side 3, Position 5	0.33			1.28		
Side 4, Position 1	0.22			0.59		
Side 4, Position 2	0.40			0.61		
*Side 5, Position 1	0.13			1.71		
*Side 5, Position 2	0.22			2.05		
*Side 5, Position 3	0.38			2.15		
*Side 5, Position 4	0.36			2.02		
*Side 5, Position 5	0.19	1.63	90	1.85	614	83

\*Note: Position 5 data is provided as informative only as it is not an accessible location during normal usage.

MPE CALCULATION DATA SHEET	
<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 100 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23

EUT Orientation	Magnetic Field Strength		Magnetic Limit from 300 kHz	Magnetic Limit Per KDB 680106	Electric Field Strength	Electric Limit From 300 kHz	Electric Limit Per KDB 680106
	A/m		A/m	A/m	V/m	V/m	V/m
Measured At	20 cm	30 cm			20 cm		
Side 1, Position 1	1.12	0.70	1.63	90	5.76	614	83
Side 1, Position 2	1.39	0.80			5.09		
Side 1, Position 3	1.25	0.79			6.07		
Side 1, Position 4	1.49	0.81			6.60		
Side 1, Position 5	0.94	0.46			5.34		
Side 2, Position 1	0.79	0.65			3.03		
Side 2, Position 2	0.87	0.74			1.64		
Side 3, Position 1	1.22	0.72			2.72		
Side 3, Position 2	1.16	0.74			7.93		
Side 3, Position 3	1.96	1.14			6.43		
Side 3, Position 4	1.92	1.01			7.40		
Side 3, Position 5	0.93	0.55			2.03		
Side 4, Position 1	1.08	0.67			1.31		
Side 4, Position 2	0.87	0.45			1.01		
*Side 5, Position 1	0.83	0.52			11.09		
*Side 5, Position 2	0.72	0.56			15.18		
*Side 5, Position 3	1.26	0.71			9.15		
*Side 5, Position 4	1.02	0.71			10.58		
*Side 5, Position 5	0.79	0.30	1.63	90	6.44	614	83

\*Note: Position 5 data is provided as informative only as it is not an accessible location during normal usage.

<b>MPE CALCULATION DATA SHEET</b>	
<b>Test Specification:</b>	FCC Part 1.1310, Radiofrequency radiation exposure limits
<b>Method:</b>	FCC Part 1.1310 (d)(2), Maximum Permissible Exposure (MPE)
<b>Limit:</b>	FCC Part 1.1310 (e)(1), Table 1, Section(ii), Limits for General Population / Uncontrolled Exposure
<b>Job Number/Customer:</b>	R-3578P-5 / Siemens Mobility
<b>Test Sample:</b>	ZUB Track Tester
<b>Model Number:</b>	S25060-X442-H510-1 (ZUB); PSAA60W-150 (PS)
<b>Serial Number:</b>	0047 (ZUB); P01400860A1 (PS)
<b>Operating Mode:</b>	ZUB Track Tester Transmitting at 850 kHz
<b>Technician:</b>	M. Nowak
<b>Date(s):</b>	11/10/23

EUT Orientation	Magnetic Reading	Magnetic Limit	Electrical Reading	Electrical Limit
	A/m	A/m	V/m	V/m
<b>Measured At</b>	<b>20 cm</b>		<b>20 cm</b>	
Side 1, Position 1	0.1	1.63	0.38	614
Side 1, Position 2	0.1		0.38	
Side 1, Position 3	0.1		0.38	
Side 1, Position 4	0.1		0.38	
Side 1, Position 5	0.1		0.38	
Side 2, Position 1	0.1		0.38	
Side 2, Position 2	0.1		0.38	
Side 3, Position 1	0.1		0.38	
Side 3, Position 2	0.1		0.38	
Side 3, Position 3	0.1		0.38	
Side 3, Position 4	0.1		0.38	
Side 3, Position 5	0.1		0.38	
Side 4, Position 1	0.1		0.38	
Side 4, Position 2	0.1		0.38	
*Side 5, Position 1	0.1		0.38	
*Side 5, Position 2	0.1		0.38	
*Side 5, Position 3	0.1		0.38	
*Side 5, Position 4	0.1		0.38	
*Side 5, Position 5	0.1	1.63	0.38	614

\*Note: Position 5 data is provided as informative only as it is not an accessible location during normal usage.

**Zub Track Tester without TCC Test Photographs  
RF Exposure**

## Test Photographs RF Exposure



Test Setup



Side 1, Position 1, 20 cm

## Test Photographs RF Exposure



Side 1, Position 1, 30 cm



Side 1, Position 2, 20 cm



## Test Photographs RF Exposure



Side 1, Position 2, 30 cm



Side 1, Position 3, 20 cm

## Test Photographs RF Exposure



Side 1, Position 3, 30 cm



Side 1, Position 4, 20 cm

## Test Photographs RF Exposure



Side 1, Position 4, 30 cm



Side 1, Position 5, 20 cm

## Test Photographs RF Exposure



Side 1, Position 5, 30 cm



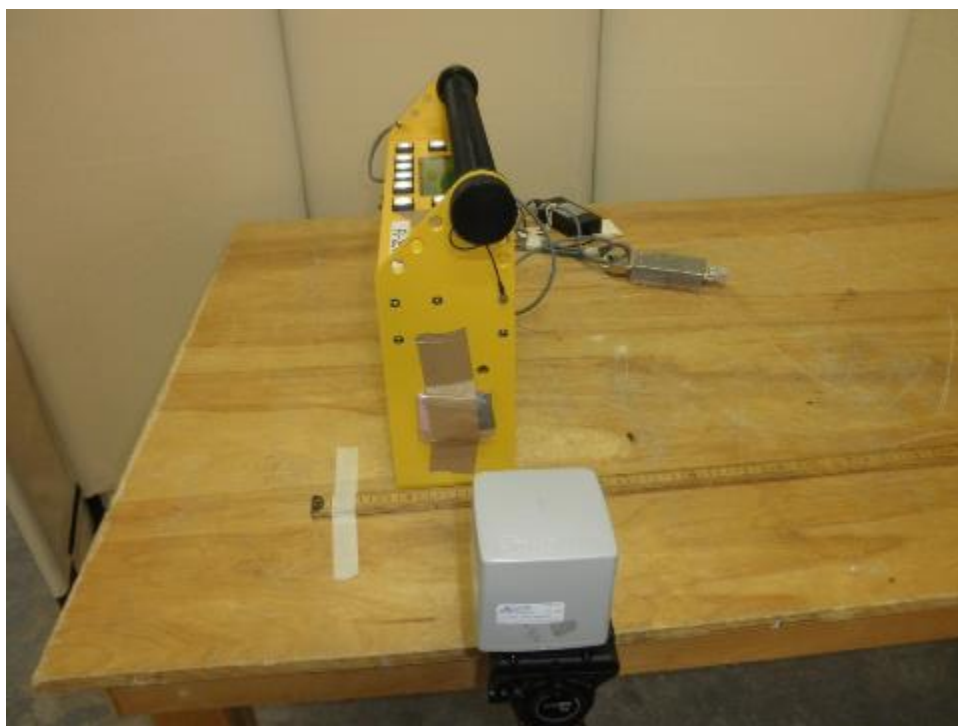
Side 2, Position 1, 20 cm



## Test Photographs RF Exposure



Side 2, Position 1, 30 cm



Side 2, Position 2, 20 cm

## Test Photographs RF Exposure



Side 2, Position 2, 30 cm



Side 3, Position 1, 20 cm

## Test Photographs RF Exposure



Side 3, Position 1, 30 cm



Side 3, Position 2, 20 cm

## Test Photographs RF Exposure



Side 3, Position 2, 30 cm



Side 3, Position 3, 20 cm



## Test Photographs RF Exposure



Side 3, Position 3, 30 cm



Side 3, Position 4, 20 cm

## Test Photographs RF Exposure

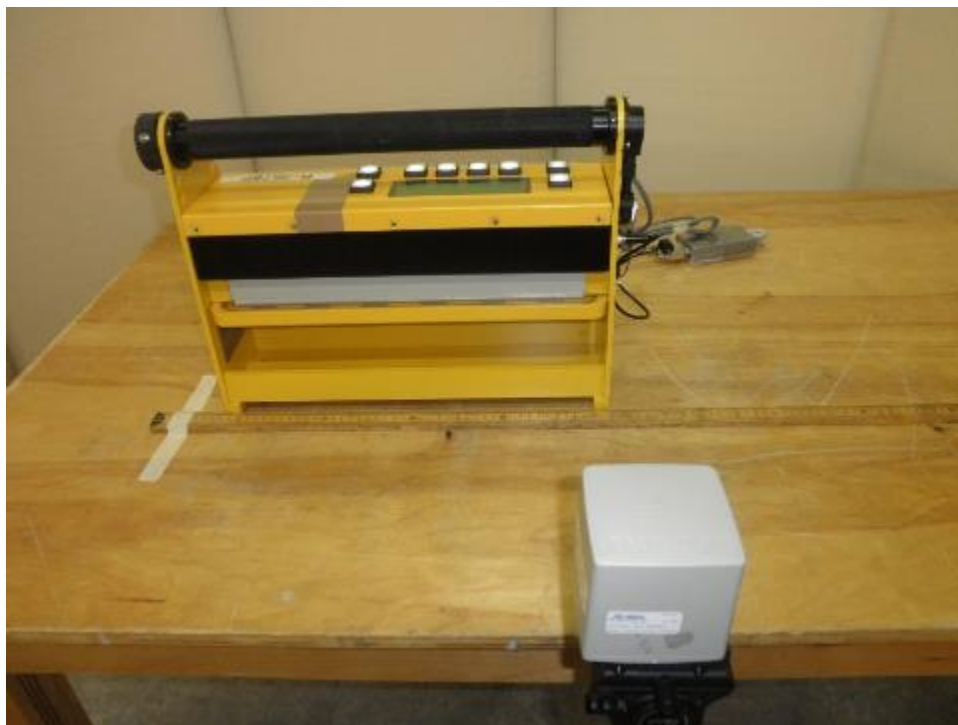


Side 3, Position 4, 30 cm



Side 3, Position 5, 20 cm

## Test Photographs RF Exposure



Side 3, Position 5, 30 cm



Side 4, Position 1, 20 cm

## Test Photographs RF Exposure



Side 4, Position 1, 30 cm



Side 4, Position 2, 20 cm



## Test Photographs RF Exposure



Side 4, Position 2, 30 cm



Side 5, Position 1, 20 cm

## Test Photographs RF Exposure



Side 5, Position 1, 30 cm



Side 5, Position 2, 20 cm

## Test Photographs RF Exposure



Side 5, Position 2, 30 cm



Side 5, Position 3, 20 cm

## Test Photographs RF Exposure



Side 5, Position 3, 30 cm



Side 5, Position 4, 20 cm



## Test Photographs RF Exposure



Side 5, Position 4, 30 cm



Side 5, Position 5, 20 cm

**Test Photographs  
RF Exposure**



Side 5, Position 5, 30 cm