

Report No.: EH/2013/90028 **Issue Date: Oct. 08, 2013**

9. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

9.1 **Related Submittal(s) / Grant (s)**

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. And RSS-102 issue 4 For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

9.2 Special Accessories

Not available for this EUT intended for grant.

9.3 Equipment Modifications

Not available for this EUT intended for grant.

9.4 Limitation

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(minute)
	Limits for General	Population/Uncontr	olled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

^{* =} Plane-wave equipment power density

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m²)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	280/f	2.19/f	-	6
10-30	28	2.19/f	-	6
30-300	28	0.073	2*	6
300-1500	1.585 f 0.5	$0.0042 f^{0.5}$	f/150	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/f ^{1.2}
150000-300000	0.158 f 0.5	$4.21 \times 10^{-4} f^{0.5}$	6.67 x 10 ⁻⁵ f	616000/f 1.2

Note: f is frequency in MHz.

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^{*} Power density limit is applicable at frequencies greater than 100 MHz.

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9.5 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the MS2362, TravelMate P633. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded MS2362, TravelMate P633 will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz) (First Antenna)

The ERP of MS2362, TravelMate P633 in cellular band is 26.19dBm max at GPRS 850 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

		EUT	Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
		824.2	128	V	24.62	3.96	-2.80	25.78	38.45
				Н	24.19	3.96	-2.80	25.35	38.45
CDDC 950	E2	836.6	190	V	24.87	4.00	-2.82	26.05	38.45
GPRS 850	E2			Н	23.61	4.00	-2.82	24.78	38.45
		949 9	251	V	25.01	4.03	-2.84	26.19	38.45
		848.8 251	231	Н	23.84	4.03	-2.84	25.03	38.45

ERP = 26.19 dBm = 415.91 mW

Power Density = ERP*Duty Cycle/
$$(4 R^2)$$

= 415.91*0.25/ $(4* *20^2) = 0.020685 \text{mW/cm}^2$

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit =
$$848.8/1500 = 0.56 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in cellular band is compliant with the FCC rules on RF exposure

s otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Operation in PCS band (1850 – 1910 MHz) (First Antenna)

The EIRP of MS2362, TravelMate P633 in PCS band is 31.21dBm max at GPRS 1900 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

		EUT		Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
	5	1850.2	512	V	30.98	4.51	-4.29	31.20	33.00	
				Н	29.49	4.17	-4.29	29.37	33.00	
GPRS		2 1880.0	661	V	29.82	4.13	-4.33	29.62	33.00	
1900	E2			Н	30.34	4.44	-4.33	30.44	33.00	
		1909.8 81	910	V	28.26	4.09	-4.37	27.99	33.00	
			810	Н	31.21	4.36	-4.37	31.21	33.00	

EIRP = 31.21 dBm = 1321.296 mW Power Density = EIRP*Duty Cycle/ $(4 R^2)$ =1321.296*0.25/ $(4* *20^2)$ =0.0657 mW/cm² where Duty Cycle is 0. 25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in PCS band is compliant with the FCC rules on RF exposure.

s otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation in WCDMA band II (1850 – 1910 MHz) (First Antenna)

The EIRP of MS2362, TravelMate P633 in PCS band is 31.07dBm max at WCDMA II mode. The resulted power density at a distance of 20 cm can be deducted as follows:

	EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit		
		MHz		V/H	dBm	dBd	dB	dBm	dBm		
		1852.4	9262	V	26.27	4.17	-4.3	26.14	33.00		
				Н	30.86	4.51	-4.3	31.07	33.00		
WCDMA	F2	1880.0	0.400	V	26.70	4.13	-4.33	26.50	33.00		
Band II	E2		9400	Н	30.72	4.44	-4.33	30.83	33.00		
		1907.6 9538	V	27.51	4.1	-4.36	27.24	33.00			
			9338	Н	30.71	4.37	-4.36	30.71	33.00		

ERP = 31.07 dBm = 1279.381 mW

Power Density = ERP*Duty Cycle/ $(4 R^2)$

 $= 1279.381*1/(4* *20^2) = 0.2545 \text{mW/cm}^2$

where Duty Cycle is 1 for WCDMA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in cellular band is compliant with the FCC rules on RF exposure.

s otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. ** 항상 보고 살아 아니라 아니라 이 기계 교육 하고 그 그 기계 가능한다. 그 그 기계 가능한다.

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Operation in WCDMA band V (826 – 849 MHz) (First Antenna)

The EIRP of MS2362, TravelMate P633 in cellular band is 20.62dBm max at WCDMA V mode. The resulted power density at a distance of 20 cm can be deducted as follows:

		EUT		Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
		826.4	4132	V	18.59	3.97	-2.80	19.75	38.45	
				Н	17.82	3.97	-2.80	18.98	38.45	
WCDMA	EO	E2 836.6	4183	V	19.44	4.00	-2.82	20.62	38.45	
Band V	E2			Н	17.93	4.00	-2.82	19.10	38.45	
		846.6 42	4233	V	18.88	4.02	-2.84	20.07	38.45	
			4233	Н	17.62	4.02	-2.84	18.80	38.45	

EIRP = 20.62 dBm = 115.3453 mW
Power Density = EIRP*Duty Cycle/
$$(4 R^2)$$

= 115.3453*1/ $(4* *20^2)$ = 0.0229 mW/cm²

where Duty Cycle is 1 for WCDMA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit =
$$836.6/1500 = 0.56 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in PCS band is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz) (Second Antenna)

The ERP of MS2362, TravelMate P633 in cellular band is 24.80dBm max at EDGE 850 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

	EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit		
		MHz		V/H	dBm	dBd	dB	dBm	dBm		
		824.2	128	V	22.97	3.96	-2.80	24.14	38.45		
				Н	22.21	3.96	-2.80	23.37	38.45		
EDGE 050	Е0	836.6	100	V	23.57	4.00	-2.82	24.75	38.45		
EDGE 850	E2		190	Н	22.48	4.00	-2.82	23.66	38.45		
		848.8	251	V	23.61	4.03	-2.84	24.80	38.45		
		048.8		Н	21.84	4.03	-2.84	23.03	38.45		

ERP = 24.80 dBm = 301.995 mW

Power Density = $ERP*Duty Cycle/(4 R^2)$

 $= 301.995*0.25/(4* *20^2) = 0.015 \text{ mW/cm}^2$

where Duty Cycle is 0.25 for EDGE operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = $848.8/1500 = 0.57 \text{ mW/cm}^2$

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in cellular band is compliant with the FCC rules on RF exposure

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Operation in PCS band (1850 – 1910 MHz) (Second Antenna)

The EIRP of MS2362, TravelMate P633 in PCS band is 30.83dBm max at EDGE 1900 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

		EUT		Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
	E2	1850.2	512	V	29.13	4.17	-4.29	29.01	33.00	
				Н	30.60	4.51	-4.29	30.82	33.00	
EDGE		2 1880.0	661	V	28.39	4.13	-4.33	28.19	33.00	
1900				Н	29.82	4.44	-4.33	29.93	33.00	
		1909.8 810	810	V	28.98	4.09	-4.37	28.70	33.00	
			010	Н	30.83	4.36	-4.37	30.83	33.00	

EIRP = 30.83 dBm = 1210.598 mWPower Density = EIRP*Duty Cycle/(4 R²) = $1210.598*0.25/(4* *20^2) = 0.2408 \text{ mW/cm}^2$

where Duty Cycle is 0. 25 for EDGE operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore MS2362 in PCS band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band II (1850 – 1910 MHz) (Second Antenna)

The EIRP of MS2362, TravelMate P633 in PCS band is 31.27dBm max at HSDPA II mode. The resulted power density at a distance of 20 cm can be deducted as follows:

	EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit		
		MHz		V/H	dBm	dBd	dB	dBm	dBm		
		1852.4	9262	V	26.10	4.17	-4.29	25.98	33.00		
				Н	30.91	4.51	-4.30	31.12	33.00		
HSDPA		1880.0	9400	V	26.79	4.13	-4.33	26.59	33.00		
Band II	E2			Н	30.44	4.44	-4.33	30.54	33.00		
		1907.6 9538	V	27.35	4.10	-4.36	27.08	33.00			
			Н	31.26	4.37	-4.36	31.27	33.00			

EIRP = 31.27 dBm = 1339.677 mW
Power Density = ERP*Duty Cycle/
$$(4 ext{ R}^2)$$

= 1339.677*1/ $(4* ext{ *}20^2)$ = 0.2665 mW/cm²

where Duty Cycle is 1 for HSDPA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in cellular band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band V (826 – 849 MHz) (Second Antenna)

The EIRP of MS2362, TravelMate P633 in cellular band is 20.61dBm max at HSDPA V mode. The resulted power density at a distance of 20 cm can be deducted as follows:

	EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit		
		MHz		V/H	dBm	dBd	dB	dBm	dBm		
		826.4	4132	V	18.69	3.97	-2.80	19.85	38.45		
				Н	17.97	3.97	-2.80	19.14	38.45		
HSDPA	БЭ	E2 836.6	4183	V	19.17	4.00	-2.82	20.35	38.45		
Band V	E2			Н	18.11	4.00	-2.82	19.28	38.45		
		846.6	4233	V	19.43	4.02	-2.84	20.61	38.45		
			4233	Н	18.11	4.02	-2.84	19.29	38.45		

EIRP = 20.61 dBm = 115.08 mW
Power Density = EIRP*Duty Cycle/(4
$$R^2$$
)
= 115.08*1/(4* *20²) = 0.0057 mW/cm²

where Duty Cycle is 1 for HSDPA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit =
$$846.6/1500 = 0.56 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore MS2362, TravelMate P633 in PCS band is compliant with the FCC rules on RF exposure.

s otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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