

Report No.: E2/2016/50025

1. Maximum Permissible Exposure (MPE)

1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with § 2.1091 Radiofrequency radiation exposure evaluation: mobile devices of the FCC CFR 47 Rules, CFR 1.1310 (b) Radio frequency Radiation Exposure Requirement.

1.2. Special Accessories

Not available for this EUT intended for grant

1.3. Equipment Modifications

Not available for this EUT intended for grant.

1.4. Limitation

Frequency Range (MHz)		Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minute)			
Limits for General Population/Uncontrolled 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

1.5. Exposure (MPE) Evaluation

The evaluation and calculation as deduces below presents only worst-case that produces highest value of the result:

Operation Configuration of the Worst-Case picked up to evaluate:

LTE Band 4 / 13

Unless 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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^{* =} Plane-wave equipment power density



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Operation in LTE Band 4 (1710 to 1755 MHz)

BAND 4 / BW: 5M / QPSK / RB: 1.0

EUT			Measurement						
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit	
	MHz		V/H	dBm	dBi	dB	dBm	dBm	
LTE BAND 4	1712.5	19975	V	19.44	9.2	-2.5	26.14	30	
			Н	16.49	9.2	-2.5	23.19	30	
	1732.5	20175	V	20.58	9.24	-2.51	27.31	30	
	1732.3	20175	Н	16.32	9.24	-2.51	23.05		
	1752.5	20375	V	21.37	9.8	-2.51	28.66	30	
			Н	15.46	9.8	-2.51	22.75	30	

Power Density = EIRP*Duty Cycle/ $(4\pi R^2)$ Duty Cycle is 1 for LTE band operation and R is 20cm.

EIRP	28.66	(dBm)
EIRP	734.514	(mW)
Duty cycle:	1	(%)
Maximum Pav :	7.34513868	(mW)
Prediction distance:	20	(cm)
Prediction frequency:	1752.5	(MHz)
MPE limit for uncontrolled exposure at prediction	1.0000	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.00146	(mW/cm^2)

Measurement Result

The predicted power density level at 20 cm is 0.00146 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 1752.5MHz.

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Report No.: E2/2016/50025

Operation in LTE Band 13 (777 to 787 MHz)

BAND 13 / BW: 5M / QPSK / RB: 1.0

EUT			Measurement						
Operation Band	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
	MHz		V/H	dBm	dBd	dB	dBm	dBm	
LTE BAND 13	779.5	23205	V	21.76	0.06	-1.62	20.2	44.77	
			Н	25.61	0.06	-1.62	24.05	44.77	
	782.0	23230	V	23.51	0.09	-1.61	21.99	44.77	
			Н	27.69	0.09	-1.61	26.17	44.77	
	784.5	23255	V	22.45	0.1	-1.6	20.95	44.77	
			Н	26.89	0.1	-1.6	25.39	44.77	

Power Density = EIRP*Duty Cycle/ $(4\pi R^2)$ Duty Cycle is 1 for LTE band operation and R is 20cm.

ERP	26.17	(dBm)
ERP	414.000	(mW)
Duty cycle:	1	(%)
Maximum Pav :	4.13999675	(mW)
Prediction distance:	20	(cm)
Prediction frequency:	782	(MHz)
MPE limit for uncontrolled exposure at prediction	0.5213	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.00082	(mW/cm^2)

Measurement Result

The predicted power density level at 20 cm is 0.00082 mW/cm2.

This is below the uncontrolled exposure limit of 0.5213 mW/cm2 at 782MHz.

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