RF-EXPOSURE REPORT

FCC 47 CFR Part 2.1091
ISED RSS-102

Maximum permissible exposure

Report Reference No	G0M-2104-9762-TFC091MP-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Test Firm Designation Number: DE0008 ISED Testing Laboratory site: 3470A-2
Applicant	Webfleet Solutions B.V.
Address	De Ruijterkade 154 1011 AC Amsterdam Netherlands
Test Specification	According to FCC/ISED rules
Standard	FCC 47 CFR 2.1091 ISED RSS-102
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Device with GSM+LTE+GNSS+OBD connector
Model(s)	L0240
Additional Model(s)	None
Brand Name(s)	LINK 240
Hardware Version(s)	48/2019
Software Version(s)	2.1
FCC ID	2AGPAL0240
IC	-/-
Test Result	**PASSED**

Possible test case verdicts:	
required by standard but not tested	N/T
not required by standard	N/R
test object does meet the requirement	P(PASS)
test object does not meet the requirement	F(FAIL)
Testing:	
Test Lab Temperature	20 °C - 30 °C
Test Lab Humidity	25 % - 55 %
Date of receipt of test item	2021-04-29
Report:	

Compiled by	Charline Graf	
Tested by (+ signature) (Responsible for Test)	Charline Graf	
Approved by (+ signature) (Test Lab Engineer)	Burkhard Pudell	
Date of Issue	2021-10-12	
Total number of pages	24	

General Remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional Comments:

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-10-12	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EIRP	Equivalent Isotropic Radiated Power
EUT	Equipment Under Test
MPE	Maximum Permissible Exposure

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Telematic Device with GSM+LTE+GNSS+OBD connector
Model	L0240
Additional Model(s)	None
Brand Name(s)	LINK 240
Serial Number(s)	None
Hardware Version(s)	48/2019
Software Version(s)	2.1
PMN	-/-
HVIN	-/-
FVIN	-/-
HMN	-/-
FCC ID	2AGPAL0240
IC	-/-
Equipment type	End Product
Environment	General public

1.1 Reference Documents

Document Type	Document No.	Issued by	Date
Radio test report FCC 47 CFR Part 15C ISED Canada RSS-247	G0M-2104-9762-TFC247BT-V01	Eurofins Product Service GmbH	2021-10-07

1.2 Power density radiation sources

Mode	Operating Frequency [MHz]	Maximum conducted power [dBm]	Maximum radiated power [dBm EIRP]	Maximum duty cycle [%]	Maximum antenna gain [dBi]	Maximum antenna diameter [cm]
LTE FDD2	1880.0	25.7	25.7	100	0	N/A
LTE FDD4	1732.5	25.7	25.7	100	0	N/A
LTE FDD12	707.5	25.7	25.7	100	0	N/A
LTE FDD13	782.0	25.7	25.7	100	0	N/A
GSM 850	836	35.5	35.5	100	0	N/A
GSM 1900	1880.0	32.5	32.5	100	0	N/A
Bluetooth	2480	4.657	4.657	78	0	N/A
Comment:						

1.3 Field strength radiation sources

None

1.4 Concurrent Sources

Concurrent operating conditions
LTE FDD2 + Bluetooth
LTE FDD4 + Bluetooth
LTE FDD12 + Bluetooth
LTE FDD13 + Bluetooth
GSM 850 + Bluetooth
GSM 1900 + Bluetooth
Comment:

2 Result Summary

FCC MPE Evaluation - Single radiation sources					
Product Standard Reference	**Requirement**	**Reference Method**	**Mode**	**Distance [m]**	**Verdict**
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD2	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD4	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD12	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD13	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	GSM 850	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	GSM 1900	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	Bluetooth	0.20	PASS
Comment:					

ISED MPE Evaluation - Single radiation sources					
Product Standard Reference	**Requirement**	**Reference Method**	**Mode**	**Distance [m]**	**Verdict**
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD2	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD4	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD12	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD13	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	GSM 850	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	GSM 1900	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	Bluetooth	0.20	PASS
Comment:					

FCC MPE Evaluation - Multi-transmitter sources					
Product Standard Reference	**Requirement**	**Reference Method**	**Mode**	**Distance [m]**	**Verdict**
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD2 + Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD4 + Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD12 + Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	LTE FDD13 + Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	GSM 850 + Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	GSM 1900 + Bluetooth	0.20	PASS
Comment:					

ISED MPE Evaluation - Multi-transmitter sources					
Product Standard Reference	**Requirement**	**Reference Method**	**Mode**	**Distance [m]**	**Verdict**
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD2 + Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD4 + Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD12 + Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	LTE FDD13 + Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	GSM 850 + Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	GSM 1900 + Bluetooth	0.20	PASS
Comment:					

3 RF-Exposure classification

RF-Exposure Categories	
Fixed	A fixed device is defined as a device physically secured at one fixed location and cannot be easily re-located.
Mobile	A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.
Portable	A portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

RF-Exposure Categories	
Occupational / Controlled	Limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
General population / Uncontrolled	Exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

4 RF-Exposure limits

FCC Limits – General Population / Uncontrolled Exposure				
Frequency range [MHz]	**Electric field strength [V/M]**	**Magnetic field strength [A/M]**	**Power density [W/m²]**	**Averaging time [min]**
0.3 – 1.34	614	1.63	1000	30
1.34 – 30	824/f	2.19/f	$1800/f^2$	30
30 – 300	27.5	0.073	2	30
300 – 1500	-	-	f/150	30
1500 – 100000	-	-	10.0	30

FCC Limits – Occupational / Controlled Exposure				
Frequency range [MHz]	**Electric field strength [V/M]**	**Magnetic field strength [A/M]**	**Power density [W/m²]**	**Averaging time [min]**
0.3 – 3.0	614	1.63	1000	6
3.0 – 30	1842/f	4.89/f	$9000/f^2$	6
30 – 300	61.4	0.163	10.0	6
300 – 1500	-	-	f/30	6
1500 – 100000	-	-	50	6

ISED Limits – General Population / Uncontrolled Exposure				
Frequency range [MHz]	**Electric field strength [V/M]**	**Magnetic field strength [A/M]**	**Power density [W/m²]**	**Averaging time [min]**
0.003 – 10	83	90	-	Instantaneous
0.1 – 10	-	0.73/f	-	6
1.1 – 10	$87/f^{0.5}$	-	-	6
10 – 20	27.46	0.0728	2	6
20 – 48	$58.07/f^{05}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48 – 300	22.06	0.05852	1.291	6
300 – 6000	$3.142 \cdot f^{0.3417}$	$0.008335 \cdot f^{0.3417}$	$0.02619 \cdot f^{0.6834}$	6
6000 – 15000	61.4	0.163	10	6
15000 – 150000	61.4	0.163	10	$616000/f^{1.2}$
150000 – 300000	$0.158 \cdot f^{0.5}$	$4.21 \cdot 10^{-4} \cdot f^{0.5}$	$6.67 \cdot 10^{-5} \cdot f$	$616000/f^{1.2}$

ISED Limits – Occupational / Controlled Exposure				
Frequency range [MHz]	**Electric field strength [V/M]**	**Magnetic field strength [A/M]**	**Power density [W/m²]**	**Averaging time [min]**
0.003 – 10	170	180	-	Instantaneous
0.1 – 10	-	1.6/f	-	6
1.1 – 10	$193/f^{0.5}$	-	-	6
10 – 20	61.4	0.163	10	6
20 – 48	$129.8/f^{05}$	$0.3444/f^{0.25}$	$44.72/f^{0.5}$	6
48 – 300	49.33	0.1309	6.455	6
300 – 6000	$15.60 \cdot f^{0.25}$	$0.04138 \cdot f^{0.25}$	$0.6455 \cdot f^{0.5}$	6
6000 – 15000	137	0.364	50	6
15000 – 150000	137	0.364	50	$616000/f^{1.2}$
150000 – 300000	$0.354 \cdot f^{0.5}$	$9.40 \cdot 10^{-4} \cdot f^{0.5}$	$3.33 \cdot 10^{-4} \cdot f$	$616000/f^{1.2}$

5 RF-Exposure Evaluation

Evaluation Relations

$$\lambda[m] = \frac{c\left[\frac{m}{s}\right]}{f[Hz]} \; ; \; R_{FF}[m] \geq \frac{2 \cdot D[m]^2}{\lambda[m]}$$

$$S[W/m^2] = \frac{P_{E.I.R.P.}[W]}{4\pi R[m]^2} \; ; \; R[m] = \sqrt{\frac{P_{E.I.R.P.}[W]}{4\pi S[W/m^2]}}$$

$$DCC\ [dB] = 10 \cdot Log_{10}\left(\frac{DC[\%]}{100}\right)$$

$$\sum_{i=1}^{N} \frac{S_i\left[\frac{W}{m^2}\right]}{S_{Li}\left[\frac{W}{m^2}\right]} + \sum_{j=1}^{M} \left(\frac{E_j\left[\frac{V}{m}\right]}{E_{Lj}\left[\frac{V}{m}\right]}\right)^2 + \sum_{k=1}^{O} \left(\frac{H_k\left[\frac{A}{m}\right]}{H_{Lk}\left[\frac{A}{m}\right]}\right)^2 < 1$$

Evaluation Procedure

Standalone operation evaluation:

For each radio and frequency band the worst case transmission mode with the highest peak conducted or radiated power is evaluated at the frequency that results in the most restrictive rf-exposure limit. From the peak power values, antenna gains and duty cycles taken from the reference documents, the source average radiated power values are calculated. From the average radiated power the power densities at antenna far-field distance is calculated. The distance from the radiation source for compliance power density is calculated. If the separation distance is lower than the far-field distance, the far-field distance is given as compliance separation distance because the plane wave power density assessment is only valid in the far-field of the radiation source.

For radiation sources for which the average electric and magnetic fields are measured using field probes, the measured field strength values are compared to the reference limits. For those sources no calculations are performed. Compliance with the reference values is determined with the near field measurements.

Concurrent operation evaluation:

First the evaluation distance is set to an appropriate value. For all radiation sources for which power densities are calculated, the power densities at the evaluation distance are calculated and for all other sources the electric or magnetic field strengths are measured using field probes. Finally the ratios of the power densities and/or field strength values and the corresponding limits are calculated and summed and the sum is compared to the maximum of 1.

6 Single Source Evaluation Results - FCC

LTE FDD2	
Transmission Mode	
Transmission Frequency (f) [MHz]	1880.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	10.000
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.07
Distance for compliance power density (S=SL) [m]	0.054
Compliance	
Verdict	PASS
Comment:	

LTE FDD4	
Transmission Mode	
Transmission Frequency (f) [MHz]	1732.5
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	10.000
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.07
Distance for compliance power density (S=SL) [m]	0.054
Compliance	
Verdict	PASS
Comment:	

LTE FDD12	
Transmission Mode	
Transmission Frequency (f) [MHz]	707.5
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	4.717
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.16
Distance for compliance power density (S=SL) [m]	0.079
Compliance	
Verdict	PASS
Comment:	

LTE FDD13	
Transmission Mode	
Transmission Frequency (f) [MHz]	782.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	5.213
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.14
Distance for compliance power density (S=SL) [m]	0.075
Compliance	
Verdict	PASS
Comment:	

GSM 850	
Transmission Mode	
Transmission Frequency (f) [MHz]	836
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	35.5
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	35.50
Power density	
Compliance power density limit [W/m^2]	5.573
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	1.420
Power density ratio @ 0.20 m	1.0
Distance for compliance power density (S=SL) [m]	0.113
Compliance	
Verdict	PASS
Comment:	

GSM 1900	
Transmission Mode	
Transmission Frequency (f) [MHz]	1880.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	32.5
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	32.50
Power density	
Compliance power density limit [W/m^2]	10.000
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	3.538
Power density ratio @ 0.20 m	0.35
Distance for compliance power density (S=SL) [m]	0.119
Compliance	
Verdict	PASS
Comment:	

Bluetooth	
Transmission Mode	
Transmission Frequency (f) [MHz]	2480
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	4.657
Maximum transmission duty cycle (DC)	0.78
Duty cycle correction (DCC) [dB]	-1.08
Average radiated power (PRAVG) [dBm EIRP]	3.58
Power density	
Compliance power density limit [W/m^2]	10.000
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.005
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.004
Compliance	
Verdict	PASS
Comment:	

7 Single Source Evaluation Results - ISED

LTE FDD2	
Transmission Mode	
Transmission Frequency (f) [MHz]	1880.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	4.526
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.16
Distance for compliance power density (S=SL) [m]	0.081
Compliance	
Verdict	PASS
Comment:	

LTE FDD4	
Transmission Mode	
Transmission Frequency (f) [MHz]	1732.5
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	4.280
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.17
Distance for compliance power density (S=SL) [m]	0.083
Compliance	
Verdict	PASS
Comment:	

LTE FDD12	
Transmission Mode	
Transmission Frequency (f) [MHz]	707.5
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	2.321
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.32
Distance for compliance power density (S=SL) [m]	0.113
Compliance	
Verdict	PASS
Comment:	

LTE FDD13	
Transmission Mode	
Transmission Frequency (f) [MHz]	782.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	25.7
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	25.70
Power density	
Compliance power density limit [W/m^2]	2.485
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.739
Power density ratio @ 0.20 m	0.30
Distance for compliance power density (S=SL) [m]	0.109
Compliance	
Verdict	PASS
Comment:	

GSM 850	
Transmission Mode	
Transmission Frequency (f) [MHz]	836
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	35.5
Maximum transmission duty cycle (DC)	0.25
Duty cycle correction (DCC) [dB]	-6.02
Average radiated power (PRAVG) [dBm EIRP]	29.48
Power density	
Compliance power density limit [W/m^2]	2.601
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	1.420
Power density ratio @ 0.20 m	1.0
Distance for compliance power density (S=SL) [m]	0.165
Compliance	
Verdict	PASS
Comment:	

GSM 1900	
Transmission Mode	
Transmission Frequency (f) [MHz]	1880.0
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	32.5
Maximum transmission duty cycle (DC)	1.00
Duty cycle correction (DCC) [dB]	0.00
Average radiated power (PRAVG) [dBm EIRP]	32.50
Power density	
Compliance power density limit [W/m^2]	4.526
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	3.538
Power density ratio @ 0.20 m	0.78
Distance for compliance power density (S=SL) [m]	0.177
Compliance	
Verdict	PASS
Comment:	

Bluetooth	
Transmission Mode	
Transmission Frequency (f) [MHz]	2480
Antenna far-field distance	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength (λ) [m]	N/A
Antenna far-field distance (R_{FF}) [m]	N/A
Source average power	
Peak radiated power (PR) [dBm EIRP]	4.657
Maximum transmission duty cycle (DC)	0.78
Duty cycle correction (DCC) [dB]	-1.08
Average radiated power (PRAVG) [dBm EIRP]	3.58
Power density	
Compliance power density limit [W/m^2]	5.469
Power density (S) @ Antenna far-field distance [W/m^2]	N/A
Power density (S) @ 0.20 m [W/m^2]	0.005
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.006
Compliance	
Verdict	PASS
Comment:	

8 Concurrent Evaluation Results - FCC

LTE FDD2 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD2	0.07
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.07
Compliance	
Verdict	PASS

LTE FDD4 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD4	0.07
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.07
Compliance	
Verdict	PASS

LTE FDD12 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD12	0.16
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.16
Compliance	
Verdict	PASS

LTE FDD13 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD13	0.14
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.14
Compliance	
Verdict	PASS

GSM 850 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
GSM 850	0.68
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.68
Compliance	
Verdict	PASS

GSM 1900 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
GSM 1900	0.35
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.35
Compliance	
Verdict	PASS

9 Concurrent Evaluation Results - ISED

LTE FDD2 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD2	0.16
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.16
Compliance	
Verdict	PASS

LTE FDD4 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD4	0.17
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.17
Compliance	
Verdict	PASS

LTE FDD12 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD12	0.32
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.32
Compliance	
Verdict	PASS

LTE FDD13 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
LTE FDD13	0.30
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.30
Compliance	
Verdict	PASS

GSM 850 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
GSM 850	0.32
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.32
Compliance	
Verdict	PASS

GSM 1900 + Bluetooth	
Information	
Number of concurrent modes	2
Evaluation distance [m]	0.20
Maximum MPE Ratios	
GSM 1900	0.78
Bluetooth	0.00
Sum of MPE Ratios	
Sum	0.78
Compliance	
Verdict	PASS

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