

EMF ASSESSMENT REPORT

FCC Rules: Code of Federal Regulations (CFR) no. 47
RF Exposure

and

INDUSTRY CANADA

Spectrum Management and Telecommunications Radio Standards Specification

RSS-102:2023 § 6.3

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus
(All Frequency Bands)

Report Number.	AR24-0103138-01	Rev.	1
Date of issue	2026-02-05		
Total number of pages	12		
Name of Testing Laboratory preparing the Report			
IMQ S.p.A.			
Applicant's name			
QUICK S.p.A.			
Address			
Via Piangipane, 120/A – IT-48124 Piangipane (RA)			
Test specification:			
Standards	47 CFR Part 15 and 447498 D01 V06 RSS-102:2023		
Test Report Form No.	TRF 3609/7		
Test Report Form(s) Originator	IMQ S.p.A.		
Master TRF	Dated 2024-09-10		
Test item description	LPD transmitter of RRC radio system		
Trademark or brand name	QUICK		
Manufacturer	QUICK S.p.A.		
Model/Type reference(s)	P904+		
Ratings	3 V DC by CR2450 type lithium battery		
FCC ID	02W-TPP		
IC CODE	10492A-TPP		
General disclaimer:			
The results of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself.			
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The authenticity of this Test Report and its contents can be verified by contacting IMQ S.p.A., responsible for this Test Report.			

Responsible Assessment Laboratory and testing location(s):	
☒ Assessment Laboratory:	IMQ S.p.A.
Assessment location/ address..... :	Viale Lombardia, 20 – IT-20021 Bollate (MI)
Assessed by (name, function, signature) .. :	Robertino Torri <i>Laboratory deputy</i>
	

List of Attachments (including a total number of pages in each attachment):

/

Summary of testing

Tests performed (name of test and test clause):

- 3.1 SAR test exclusion
- 3.2 RF exposure evaluation

Testing location:

Viale Lombardia, 20 – IT-20021 Bollate (MI)

Possible test case verdicts:								
- test case does not apply to the test item. : N/A (Not Applicable)								
- test item does meet the requirement : P (Pass)								
- test item does not meet the requirement. : F (Fail)								
IMQ reference samples		BEM 117192 (Item(s) sampled and sent by applicant)						
Date of receipt of test item		2024-04-23						
Date of acceptance of test item		2024-04-23						
Date (s) of performance of tests		2024-07-22 to 2024-07-24						
General remarks:								
Throughout this report a ☐ comma / ☒ point is used as the decimal separator. Throughout this report, the term "Test item" is used over terms such as Test object, EUT or DUT.								
Name and address of factory (ies):		/						
General product information (GPI) and other remarks:								
The ability or reliability of this product to perform its intended function in a particular application has not been investigated.								
The test results apply to the sample as received.								
All information relating to the details of the equipment under test at the § 1 of this document was provided by the applicant.								
IMQ declines any responsibility derived from missing or wrong information provided aside by the applicant.								
Environmental reference conditions		The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:						
		<table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Atmospheric pressure</th> </tr> </thead> <tbody> <tr> <td>15 °C – 35 °C</td> <td>30 % - 60 %</td> <td>86 kPa – 106 kPa</td> </tr> </tbody> </table>	Temperature	Humidity	Atmospheric pressure	15 °C – 35 °C	30 % - 60 %	86 kPa – 106 kPa
Temperature	Humidity	Atmospheric pressure						
15 °C – 35 °C	30 % - 60 %	86 kPa – 106 kPa						
		If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report. The laboratory is monitored by a continuous environmental conditions measurements system. Temperature, humidity and pressure data are recorded on a weekly basis and stored in local archive.						

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1 General description of test item

Note: The information in this section has been provided by the applicant.

1.1 Test item(s)

Include all modules, variants and configuration parts which are to be considered test items.

No.	Test item name	Unique identification / type / description	Extent of test
1	P904+	LPD transmitter with 4 buttons	Tested in full
2	P902+	As P904+ with 2 buttons	Extent
3	PW94+	As P904+	Extent
4	PT94+	As P904+	Extent

Engineering statement for untested variants / product family:

The transmitters have the same electronic board (the same PCB and components) but the number of the buttons and their disposition can change. The firmware is the same and factory settable for the five different types of use.

Supplementary information: /

1.2 Port(s)

No.	Port Name	Type	Cable		
			Specified length in m	Attached during test	Shielded
1	Enclosure	Plastic enclosure	-	-	-
2	Mains IN	3 V DC by CR2450 type lithium battery	-	☐	☐
3	Antenna	Integrated (strip line on PCB)	-	☒	☐

Supplementary information: /

1.3 Power rating(s)

Power supply type	☐	AC, 1/2/3/ phase with Neutral & Protective Earth
	☐	DC power supply by dedicated BUS
	☒	Battery
Rated voltage	3 V DC	
Rated frequency	/	
Rated power	/	

1.4 Additional parameters

Protection class	/	
Clock frequencies	/	
Other parameters	/	
Software version	/	
Hardware version	/	
Mounting position	☐	Table-top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☒	Hand-held equipment
	☐	Vehicular
	☐	Other: /

1.5 Radio parameters

Radio module model	32001550US (by MIPOT)		
Operating frequencies	913.7 MHz		
Antenna parameters	Type	☒ Integral	☐ Dedicated ☒ External
	Model	/	
	Gain	/	
Transmission protocol	/		

1.6 Electromagnetically relevant components

Component	No.	Manufacturer	Model
PCB board	1	QUICK	RCC P904
Radio module	1	MIPOT	32001550US
Supplementary information: /			

1.7 Documents as provided by the applicant

No.	Document ref.	Type and description	Doc date
1	/	/	/
Supplementary information: /			

2 Verdict summary section

Rationale for verdicts, including N/A (Not Applicable), are listed on each test sheet.

Requirements			
Clause	Requirement – Test case	Basic standard	Verdict
3.1	SAR Test Exclusion	§ 47 CFR 2.1093 (c) (1) and 447498 D01 v06	P
3.2	RF exposure evaluation	RSS-102:2023 § 6.3	P
Supplementary information: /			

3 Results of RF Exposure Evaluation

3.1 SAR Test Exclusion

Test requirement	
Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines § 1.1307(b)(1).	
EUT classification (fixed, mobile or portable devices)	Portable according to § 2.1093(b) of this Chapter
LIMITS	According to § 2.1093 of this Chapter, by means of the following guidelines: OET Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies (447498 D01 General RF Exposure Guidance v06)
Testing dates	2024-09-05

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

447498 D01 General RF Exposure Guidance v06 – Appendix A

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

447498 D01 General RF Exposure Guidance v06 § 4.3

Technical documentation

Document	Reference	Standard
IMQ Test Report	No. AR24-0103136-01 Rev.1 of 2026-02-05	FCC §15.249 RSS-210:2024

Channel No.	Frequency (MHz)	Conducted power declared by the manufacturer (dBm)	Conducted power (mW)	Distance (mm)	$\frac{\text{max. power (mW)}}{\text{min. distance (mm)}} \times \sqrt{f(\text{GHz})}$	Limits
01	913.7	7.89	6.15	5	1.1757	≤ 3.0 for 1-g head SAR or ≤ 7.5 for 10-g extremity SAR

Test result

This value is less than the low threshold limit. No SAR test is required.

3.2 RF exposure evaluation

Test requirement § 6.3 of RSS-102:2023

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

The exemption limits in table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance.

Technical documentation		
Document	Reference	Standard
IMQ Test Report	No. AR24-0103136-01 Rev.1 of 2026-02-05	FCC §15.249 RSS-210:2024

Evaluation of Exemption Limit (separation distance $\leq 5\text{mm}$)							
Max. Frequency (MHz)	Declared by manufacturer				Max level		Exemption Limit (obtained by linear interpolation) (mW)
	Max. radiated power measured		Tolerance of radiated power	Max. antenna gain (peak)			
	(dB μV @ 3m)	(dBm)	(dB)	(dBi)	(dBm)	(mW)	
913.7	101.46	6.23	/	/	6.23	4.20	19.88

Evaluation of Exemption Limit (separation distance ≤5mm)			
Max. Frequency (MHz)	Declared by manufacturer	Max level	Exemption Limit (obtained by linear interpolation) (mW)
	Conducted power declared by the manufacturer		
	(dBm)	(mW)	
913.7	7.89	6.15	19.88

Test result
SAR evaluation is not required because the output power value is less than exemption limit.

END OF ASSESSMENT REPORT