



IMQ S.p.A. - Società con Socio Unico
Via Quintiliano, 43 I-20138 MILANO
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RF Exposure Evaluation

performed in accordance with
FCC Rules: Code of Federal Regulations and KDB 447498

PRODUCT	Bluetooth® Classic module
MODEL(s) TESTED	SPBT3.0DP2
FCC ID	S9NSPBT30DP2
TRADE MARK(s)	STMicroelectronics

APPLICANT	STMicroelectronics S.r.l. ~ Centro Direzionale Colleoni - Palazzo Andromeda 3 I-20864 Agrate Brianza (MB)
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Revision Sheet

Release No.	Date	Revision Description
Rev. 0	2016-05-17	First edition



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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)

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	

The *test separation distances* ≥ 5 mm is applied to determine SAR test exclusion.



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

447498 D01 General RF Exposure Guidance v06 – Appendix A

Channel No.	Frequency (MHz)	Measured Radiated power (at 3 m distance)	E.I.R.P.	Distance	$\frac{\text{max. power (mW)}}{\text{min. distance (mm)}} \times \sqrt{f}$	Limits
		(dBuV/m)	(mW)	(mm)		
Lowest	2402	95.37	1.033	5	0.32	≤ 3.0 for 1-g head SAR or ≤ 7.5 for 10-g extremity SAR

Max level measured in this test condition: Bluetooth EDR – Modulation GFSK 1Mbit/s

Channel No.	Frequency (MHz)	Measured Radiated power (at 3 m distance)	E.I.R.P.	Distance	$\frac{\text{max. power (mW)}}{\text{min. distance (mm)}} \times \sqrt{f}$	Limits
		(dBuV/m)	(mW)	(mm)		
Middle	2441	96.47	1.330	5	0.42	≤ 3.0 for 1-g head SAR or ≤ 7.5 for 10-g extremity SAR

Max level measured in this test condition: Bluetooth EDR – Modulation GFSK 1Mbit/s

Channel No.	Frequency (MHz)	Measured Radiated power (at 3 m distance)	E.I.R.P.	Distance	$\frac{\text{max. power (mW)}}{\text{min. distance (mm)}} \times \sqrt{f}$	Limits
		(dBuV/m)	(mW)	(mm)		
Highest	2480	95.02	0.952	5	0.30	≤ 3.0 for 1-g head SAR or ≤ 7.5 for 10-g extremity SAR

Max level measured in this test condition: Bluetooth EDR – Modulation GFSK 1Mbit/s

TEST RESULT

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