RADIO FREQUENCY EXPOSURE

Limit

According to section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v06, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Appendix A.

 $Appendix\ A$ SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 50 mm

N 41 1—	5	40	4.5	20	25	
MHz	39	10 77	15 116	155	25 194	mm
150						
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	SAR Test
1900	11	22	33	44	54	Exclusion
2450	10	19	29	38	48	Threshold
3600	8	16	24	32	40	(mW)
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	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	SAR Test
1500	73	86	98	110	122	Exclusion
1900	65	76	87	98	109	Threshold
2450	57	67	77	86	96	(mW)
3600	47	55	63	71	79	(11100)
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Note: Manufacturer declared that the maximum antenna gain is 0.00dBi (Max.).

Conducted Power Results Bluetooth(BDR+EDR):

Test Mode	Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
	00	2402	0.683
GFSK	39	2441	1.372
	78	2480	1.648
	00	2402	1.577
π/4-DQPSK	39	2441	2.172
	78	2480	2.523

Manufacturing tolerance

Bluetooth(BDR+EDR)

•						
GFSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	0.5	1.0	1.5			
Tolerance ±(dB)	1.0	1.0	1.0			
π/4-DQPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78			
Target (dBm)	1.5	2.0	2.5			
Tolerance ±(dB)	1.0	1.0	1.0			

Results

Bluetooth(BDR+EDR)

Test Mode	Channel Frequency (MHz)	Max. Tune Up Power (dBm, Peak)	Max. Eirp including Tune Up (dBm, Peak)	Max. Eirp including Tune Up (mW, Peak)	Exemption Limit (mW)
GFSK	2402	1.5	1.5	1.41	10
	2440	2.0	2.0	1.58	10
	2480	2.5	2.5	1.78	10
π/4-DQPSK	2402	2.5	2.5	1.78	10
	2440	3.0	3.0	2.00	10
	2480	3.5	3.5	2.24	10

The antenna gain of the EUT for BT is 0.00dBi (Max). the Maximum Eirp is used for Routine Evaluation Exemption according to section 4.3.1 of KDB 447498 D01.

So, the SAR evaluation is not required.