

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220701221E-04	Rev.01	Initial report	2022-09-02

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Jiteng Network Technology Co., Ltd
Address of Applicant:	No.1202, Bitian Pavilion, Bizhong Garden, No.10 Bibo First Street, Bibo Community Huangbei Street, Luohu District, Shenzhen City, China
Manufacturer:	Shenzhen Jiteng Network Technology Co., Ltd
Address of Manufacturer:	No.1202, Bitian Pavilion, Bizhong Garden, No.10 Bibo First Street, Bibo Community Huangbei Street, Luohu District, Shenzhen City, China
Factory:	SHENZHEN 3NOD ELECTRONICS CO., LTD
Address of Factory:	No.74, Yangyong Road, Yanluo street, Tangxiayong Community, Songgang, Baoan, Shenzhen, Guangdong, P.R.China

3.2 General Description of EUT

Product Name:	Mini PC
Model No.:	MiniAir 11
Test Model No.:	MiniAir 11
Trade Mark:	GEEKOM
EUT Power Supply:	Model:A481-1902360U I/P:100-240V~50-60Hz, 1.5A Output: DC 19.0V [±] 2.36A

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	metal antenna
Antenna Gain:	2.48dBi

3.4 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 4.2
Modulation Technique:	Non-Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	GFSK
Number of Channel:	79
Transfer Rate:	1Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	metal antenna
Antenna Gain:	2.48dBi

3.5 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	metal antenna
Antenna Gain:	2.48dBi@2.4GHz: Wi-Fi:ant 1, 1.94dBi@2.4GHz: Wi-Fi: ant 2

3.6 General Description of 5G WIFI Classic

Operation Frequency:	5150MHz ~5250 MHz
Type of Modulation:	OFDM
Number of Channel:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel
Channel Separation:	5MHz
Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz

	IEEE802.11ac(80M): 5150MHz ~5250 MHz
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	metal antenna
Antenna Gain:	5.1G:Ant 1: 3.54dBi; Ant2: 1.59dBi 5.8G:Ant 1: 4.46dBi; Ant2: 3.04dBi (provided by the applicant)

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For BT Classic

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	9.59	9.5±1	10.5	11.22
Middle(2441MHz)	10.17	10.0±1	11.0	12.59
Highest(2480MHz)	6.7	6.5±1	7.5	5.62
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	8.86	9.0±1	10.0	10.00
Middle(2441MHz)	9.82	10.0±1	11.0	12.59
Highest(2480MHz)	5.87	6.0±1	7.0	5.01
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	9.15	9.0±1	10.0	10.00
Middle(2441MHz)	9.84	10.0±1	11.0	12.59
Highest(2480MHz)	5.67	5.5±1	6.5	4.47

The test results were all less than 3060mW

Note: 1) Refer to report No. CQASZ20220701221E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's Bluetooth module is more than 20cm away from the human body.

2) For 2.4G WIFI Classic

Measurement Data

ANT1:

11B mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	13.37	13.0±1	14.0	25.12
Middle(2437MHz)	12.97	13.0±1	14.0	25.12
Highest(2462MHz)	12.68	12.5±1	13.5	22.39
11G mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	12.55	12.5±1	13.5	22.39
Middle(2437MHz)	12.67	12.5±1	13.5	22.39
Highest(2462MHz)	13.14	13.0±1	14.0	25.12
11N20 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	12.44	12.5±1	13.5	22.39
Middle(2437MHz)	12.88	13.0±1	14.0	25.12
Highest(2462MHz)	12.99	13.0±1	14.0	25.12
11N40 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2422MHz)	13.18	13.0±1	14.0	25.12
Middle(2437MHz)	12.54	12.5±1	13.5	22.39
Highest(2452MHz)	12.9	13.0±1	14.0	25.12

The test results were all less than 3060mW

ANT2:

11B mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	12.49	12.5±1	13.5	22.39
Middle(2437MHz)	12.3	12.0±1	13.0	19.95
Highest(2462MHz)	12.44	12.5±1	13.5	22.39
11G mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	11.76	12.0±1	13.0	19.95
Middle(2437MHz)	12.47	12.5±1	13.5	22.39
Highest(2462MHz)	12.52	12.5±1	13.5	22.39
11N20 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	11.83	12.0±1	13.0	19.95
Middle(2437MHz)	12.39	12.0±1	13.0	19.95
Highest(2462MHz)	11.95	12.0±1	13.0	19.95
11N40 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2422MHz)	12.79	12.5±1	13.5	22.39
Middle(2437MHz)	12.01	12.0±1	13.0	19.95
Highest(2452MHz)	12.11	12.0±1	13.0	19.95

The test results were all less than 3060mW

ANT1+ANT2:

11N20 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	17.63	18.0±1	19.0	79.43
Middle(2437MHz)	18.13	18.0±1	19.0	79.43
Highest(2462MHz)	17.98	18.0±1	19.0	79.43
11N40 mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2422MHz)	18.49	18.5±1	19.5	89.13
Middle(2437MHz)	17.78	18.0±1	19.0	79.43
Highest(2452MHz)	18.01	18.0±1	19.0	79.43

The test results were all less than 3060mW

Note: 1) Refer to report No. CQASZ20220701221E-02 for EUT test Average Output Power value.

2) EUT's Bluetooth module is more than 20cm away from the human body.

3) For 5G WIFI Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

ANT1:

Band1:

11A mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	13.98	14.0±1	15.0	31.62
Middle(5200MHz)	13.84	14.0±1	15.0	31.62
Highest(5240MHz)	15.06	15.0±1	16.0	39.81
11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	16.53	16.5±1	17.5	56.23
Middle(5200MHz)	14.42	14.5±1	15.5	35.48
Highest(5240MHz)	15.31	15.0±1	16.0	39.81
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	16.17	16.0±1	17.0	50.12
Highest(5230MHz)	14.86	15.0±1	16.0	39.81
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	16.66	16.5±1	17.5	56.23
Middle(5200MHz)	14.59	14.5±1	15.5	35.48
Highest(5240MHz)	15.34	15.5±1	16.5	44.67
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	16.01	16.0±1	17.0	50.12
Highest(5230MHz)	14.3	14.0±1	15.0	31.62

11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5210MHz)	15.47	15.5±1	16.5	44.67

Band4:

11A mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	14.88	15.0±1	16.0	39.81
Middle(5785MHz)	14.59	14.5±1	15.5	35.48
Highest(5825MHz)	15.33	15.5±1	16.5	44.67
11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	15.2	15.0±1	16.0	39.81
Middle(5785MHz)	15.31	15.0±1	16.0	39.81
Highest(5825MHz)	15.15	15.0±1	16.0	39.81
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	15.29	15.0±1	16.0	39.81
Highest(5795MHz)	15.21	15.0±1	16.0	39.81
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	15.26	15.0±1	16.0	39.81
Middle(5785MHz)	15.03	15.0±1	16.0	39.81
Highest(5825MHz)	14.78	15.0±1	16.0	39.81
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	14.57	14.5±1	15.5	35.48
Highest(5795MHz)	14.82	15.0±1	16.0	39.81

11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5775MHz)	14.62	14.5±1	15.5	35.48

ANT2:

Band1:

11A mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	12.03	12.0±1	13.0	19.95
Middle(5200MHz)	11.89	12.0±1	13.0	19.95
Highest(5240MHz)	13.11	13.0±1	14.0	25.12
11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	14.58	14.5±1	15.5	35.48
Middle(5200MHz)	12.47	12.5±1	13.5	22.39
Highest(5240MHz)	13.36	13.5±1	14.5	28.18
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	14.22	14.0±1	15.0	31.62
Highest(5230MHz)	12.91	13.0±1	14.0	25.12
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	14.71	11.5±1	12.5	17.78
Middle(5200MHz)	12.64	12.5±1	13.5	22.39
Highest(5240MHz)	13.39	13.5±1	14.5	28.18
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	14.06	14.0±1	15.0	31.62
Highest(5230MHz)	12.35	12.0±1	13.0	19.95

11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5210MHz)	13.52	13.5±1	14.5	28.18

Band4:

11A mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	13.46	13.5±1	14.5	28.18
Middle(5785MHz)	14.17	14.0±1	15.0	31.62
Highest(5825MHz)	15.91	16.0±1	17.0	50.12
11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	16.78	17.0±1	18.0	63.10
Middle(5785MHz)	17.89	18.0±1	19.0	79.43
Highest(5825MHz)	18.73	19.0±1	20.0	100.00
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	19.87	20.0±1	21.0	125.89
Highest(5795MHz)	20.79	20.5±1	21.5	141.25
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	21.84	22.0±1	23.0	199.53
Middle(5785MHz)	22.61	22.5±1	23.5	223.87
Highest(5825MHz)	23.36	23.0±1	24.0	251.19
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	24.15	24.0±1	25.0	316.23
Highest(5795MHz)	25.4	25.0±1	26.0	398.11

11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5775MHz)	26.2	26.0±1	27.0	501.19

ANT1+ANT2:

Band1:

11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	20.32	20.0±1	21.0	125.89
Middle(5200MHz)	18.21	18.0±1	19.0	79.43
Highest(5240MHz)	19.1	19.0±1	20.0	100.00
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	19.96	20.0±1	21.0	125.89
Highest(5230MHz)	18.65	18.5±1	19.5	89.13
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	20.45	20.5±1	21.5	141.25
Middle(5200MHz)	18.38	18.0±1	19.0	79.43
Highest(5240MHz)	19.13	19.0±1	20.0	100.00
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5190MHz)	19.8	20.0±1	21.0	125.89
Highest(5230MHz)	18.09	18.0±1	19.0	79.43

11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5210MHz)	19.26	19.0±1	20.0	100.00

Band4:

11N20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	18.65	18.5±1	19.5	89.13
Middle(5785MHz)	18.76	19.0±1	20.0	100.00
Highest(5825MHz)	18.6	18.5±1	19.5	89.13
11N40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	18.74	18.5±1	19.5	89.13
Highest(5795MHz)	18.66	18.5±1	19.5	89.13
11AC20 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5745MHz)	18.71	18.5±1	19.5	89.13
Middle(5785MHz)	18.48	18.5±1	19.5	89.13
Highest(5825MHz)	18.23	18.0±1	19.0	79.43
11AC40 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5755MHz)	18.02	18.0±1	19.0	79.43
Highest(5795MHz)	18.27	18.0±1	19.0	79.43
11AC80 mode				
Test channel	Av.Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Middle(5210MHz)	18.07	18.0±1	19.0	79.43

Note: 1) Refer to report No. CQASZ20220701221E-03 for EUT test Max Conducted Peak Output Power value.
2) EUT's Bluetooth module is more than 20cm away from the human body.

4) For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.46	2.5±1	3.5	2.24
Middle(2440MHz)	3.29	3.0±1	4.0	2.51
Highest(2480MHz)	2.32	2.5±1	3.5	2.24

Note: 1) Refer to report No. CQASZ20220701221E-05 for EUT test Max Conducted Peak Output Power value.
2) EUT's Bluetooth module is more than 20cm away from the human body.

Result:

Since BT and 2.4G WiFi share the same antenna, the worst mode is that 2.4G WiFi and 5G WiFi transmit at the same time.

2.4G WiFi + 5G WiFi=31.62+50.12=81.74<3060(mW)

*** END OF REPORT ***