

RADIO TEST REPORT FCC ID: 2BAGQ-TRZB2

Product: Zigbee Plug Module Trade Mark: N/A Model No.: TRZB2 Family Model: N/A Report No.: S24011605801001 Issue Date: Jan 29, 2024

Prepared for

Jiangsu Shushi Technology Co., Ltd.

NO.9 Nanxu Road, RunZhou District Zhenjiang Jiangsu, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn



TABLE OF CONTENTS

1 TEST RESULT CERTIFICATION	
2 SUMMARY OF TEST RESULTS	4
3 FACILITIES AND ACCREDITATIONS	5
3.1 FACILITIES	
3.2 LABORATORY ACCREDITATIONS AND LISTINGS3.3 MEASUREMENT UNCERTAINTY	
4 GENERAL DESCRIPTION OF EUT	
5 DESCRIPTION OF TEST MODES	8
6 SETUP OF EQUIPMENT UNDER TEST	9
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
6.2 SUPPORT EQUIPMENT6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS	
7 TEST REQUIREMENTS	
7.1 CONDUCTED EMISSIONS TEST	
7.2 RADIATED SPURIOUS EMISSION	
7.3 6DB BANDWIDTH	
7.4 DUTY CYCLE	
7.5 PEAK OUTPUT POWER	
7.6 POWER SPECTRAL DENSITY	
7.7 CONDUCTED BAND EDGE MEASUREMENT	
7.8 SPURIOUS RF CONDUCTED EMISSIONS	
7.9 ANTENNA APPLICATION	
8 TEST RESULTS	
8.1 DUTY CYCLE	
8.2 MAXIMUM CONDUCTED OUTPUT POWER	
8.3 -6DB BANDWIDTH	
8.4 Occupied Channel Bandwidth	
8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL	
8.6 BAND EDGE	
8.7 CONDUCTED RF SPURIOUS EMISSION	



TEST RESULT

Complied



1 TEST RESULT CERTIFICATION

Applicant's name:	Jiangsu Shushi Technology Co., Ltd.
Address	NO.9 Nanxu Road,RunZhou District Zhenjiang Jiangsu, China
Manufacturer's Name:	Jiangsu Shushi Technology Co., Ltd.
Address	NO.9 Nanxu Road,RunZhou District Zhenjiang Jiangsu, China
Product description	
Product name:	Zigbee Plug Module
Model and/or type reference:	TRZB2
Family Model	N/A
TestSampleNumber	S240116058001
Date (s) of performance of tests	Jan 16, 2024 ~ Jan 29, 2024

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Prepared _. By [:]	Gavan Zhang Gavan Zhang (Project Engineer)	Reviewed By [:] -	Aaron Cheng (Supervisor)	Approved <u>Alex Li</u> By Alex Li (Manager)



	FCC Part15 (15.247), Subpart	С	
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	N/A	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied bandwidth	±3.7dB



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Zigbee Plug Module		
Trade Mark	N/A		
FCC ID	2BAGQ-TRZB2		
Model No.	TRZB2		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	2405MHz~2480MHz		
Modulation	O-QPSK		
Number of Channels	16 Channels		
Antenna Type	PCB Antenna		
Antenna Gain	1.62 dBi		
Power supply	DC 3.3V		
Battery	N/A		
Adapter	N/A		
HW Version	N/A		
SW Version	N/A		

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



Revision History				
Report No.	Version	Description	Issued Date	
S24011605801001	Rev.01	Initial issue of report	Jan 29, 2024	



5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
11	2405
12	2410
18	2440
19	2445
25	2475
26	2480

Note: fc=2350MHz+kx5MHz k=11 to 26

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases		
Test Item	Data Rate/ Modulation	
AC Conducted Emission	N/A	
	Mode 1: normal link mode	
Radiated Test Cases	Mode 2: O-QPSK Tx Ch11_2405MHz	
	Mode 3: O-QPSK Tx Ch18_2440MHz	
	Mode 4: O-QPSK Tx Ch26_2480MHz	
Conducted Test	Mode 2: O-QPSK Tx Ch11_2405MHz	
Conducted Test Cases	Mode 3: O-QPSK Tx Ch18_2440MHz	
Cases	Mode 4: O-QPSK Tx Ch26_2480MHz	

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. EUT is set to continuous transmission mode. duty cycle greater than 98%.



6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For Radiated Test Cases	
AE-1 Notebook EUT	
For Conducted Test Cases	
C-1	
Instrument EUT	
Note: The temporary antenna connector is soldered on the PCB board in orde tests and this temporary antenna connector is listed in the equipment list.	r to perform conducted



6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Notebook	Inspiron 5493	9M1NN63	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Vaulati	ona conducted	iest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2025.03.30	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2025.11.06	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.11.03	2026.11.02	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2023.03.26	2026.03.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Cc	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit		
Frequency(MHZ)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

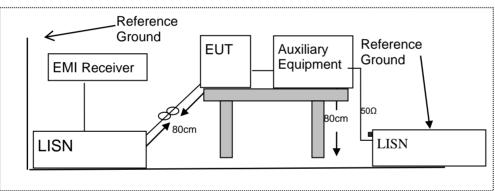
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



7.1.6 Test Results

EUT:	Liabee Plua Module	Model Name :	TRZB2
Temperature:		Relative Humidity:	57%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: Not Applicable



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 00 1 artifizeds, Restincted bands				
MHz	MHz	GHz		
16.42-16.423	399.9-410	4.5-5.15		
16.69475-16.69525	608-614	5.35-5.46		
16.80425-16.80475	960-1240	7.25-7.75		
25.5-25.67	1300-1427	8.025-8.5		
37.5-38.25	1435-1626.5	9.0-9.2		
73-74.6	1645.5-1646.5	9.3-9.5		
74.8-75.2	1660-1710	10.6-12.7		
123-138	2200-2300	14.47-14.5		
149.9-150.05	2310-2390	15.35-16.2		
156.52475-156.52525	2483.5-2500	17.7-21.4		
156.7-156.9	2690-2900	22.01-23.12		
162.0125-167.17	3260-3267	23.6-24.0		
167.72-173.2	3332-3339	31.2-31.8		
240-285	3345.8-3358	36.43-36.5		
322-335.4	3600-4400	(2)		
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358		

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

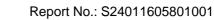
Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(wiriz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



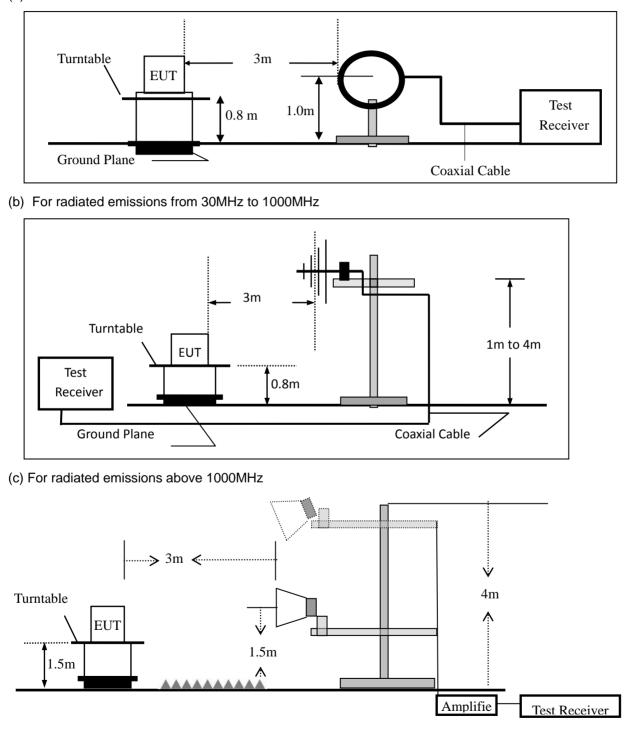


7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average			

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:				
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
Above 4000	Peak	1 MHz	1 MHz	
Above 1000	Average	1 MHz	1 MHz	

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

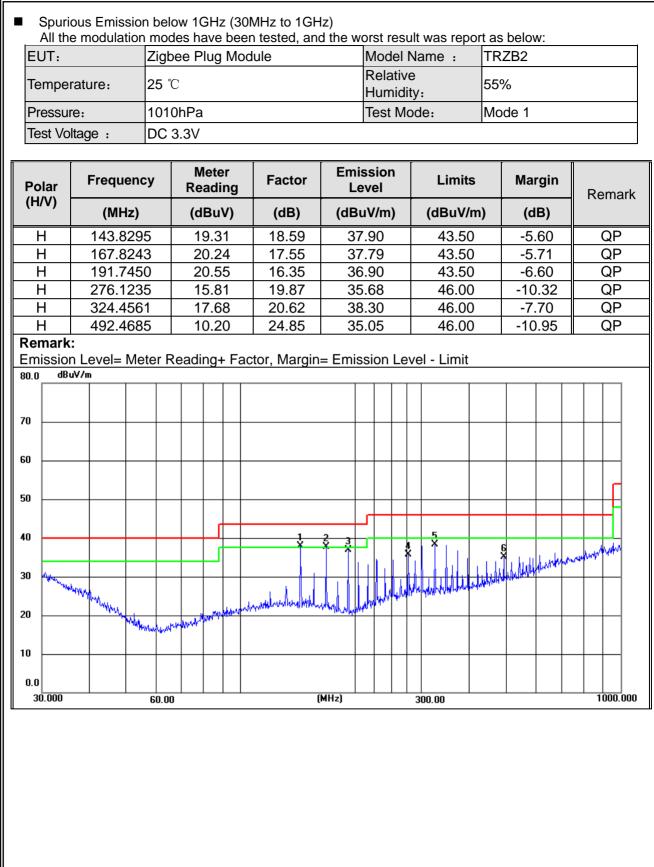
7.2.6 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz)					
EUT:	Zigbee Plug Module	Model No.:	TRZB2		
Temperature:	20 (Relative Humidity:	48%		
Lest Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Gavan Zhang		

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.







Polar		reque	ency		M Rea	ete adir		Fact	or	Em L	iss .ev		l		Limit	s	Ма	rgin		Re	emark
(H/V)		(MH	z)		(dE	3u\	/)	(dB)	(dE	BuV	//m)		(dBuV	/m)	(0	dB)			
V		64.43	331		14	1.35	5	12.4	7	2	6.8	32			40.0	0	-1:	3.18			QP
V		102.0	014		4	.68		17.8	3	2	2.5	51			43.5	0	-20	0.99			QP
V	-	167.8	243			2.39		17.5		2	9.9	94			43.5	0	-1:	3.56			QP
V	2	228.4	904			.19		17.3	0	2	3.4	9			46.0	0	-22	2.51			QP
V		168.8				2.16		24.4			6.6				46.0			.36			QP
V		916.0	687		6	.46		31.0	1	3	7.4	17			46.0	0	-8	8.53			QP
Rema Emiss ^{80.0}			Meter	Rea	adir	ng+	Fa	ctor, Ma	rgin	= Emi	ssi	on	Le	ve	el - Limit	t					
70 -																					_
50																					f
40						(3						×	1		man		, MV
30	www.w.www.	Marrie Marrie		×			2	served and a service of the service	duna	-	mitter	4 ∭∧^4	hay	hiller	and bord bord and	an to the transferred to the test of t	hit the an				
10			Mar Mar 114	and an an	w.dwill	11 4F 1															
0.0																					
30.0	00		60).00					(MHz)				30	.00					10	00.000



Spurious	s Emissi	on Above	1GHz (1G	Hz to 25G	 Hz)				
EUT:	Z	igbee Plug	g Module		Model No).:	TRZB2		
Temperature	ə: 2	0 °C			Relative I	Humidity:	48%		
Test Mode:	N	lode2/Mor	de3/Mode4	1	Test By:		Gavan	Zhang	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chan	nel (2405 N	/Hz)(O-QPS	SK)Above 1	G		
4810	68.80	5.21	35.59	44.30	65.30	74.00	-8.70	Pk	Vertical
4810	48.22	5.21	35.59	44.30	44.72	54.00	-9.28	AV	Vertical
7215	69.70	6.48	36.27	44.60	67.85	74.00	-6.15	Pk	Vertical
7215	45.94	6.48	36.27	44.60	44.09	54.00	-9.91	AV	Vertical
4810	68.17	5.21	35.55	44.30	64.63	74.00	-9.37	Pk	Horizontal
4810	49.85	5.21	35.55	44.30	46.31	54.00	-7.69	AV	Horizontal
7215	69.21	6.48	36.27	44.52	67.44	74.00	-6.56	Pk	Horizontal
7215	50.61	6.48	36.27	44.52	48.84	54.00	-5.16	AV	Horizontal
			Mid Chan	nel (2440 N	/Hz)(O-QPS	SK)Above 1	G		
4880	70.94	5.21	35.66	44.20	67.61	74.00	-6.39	Pk	Vertical
4880	47.45	5.21	35.66	44.20	44.12	54.00	-9.88	AV	Vertical
7320	68.79	7.10	36.50	44.43	67.96	74.00	-6.04	Pk	Vertical
7320	50.97	7.10	36.50	44.43	50.14	54.00	-3.86	AV	Vertical
4880	68.99	5.21	35.66	44.20	65.66	74.00	-8.34	Pk	Horizontal
4880	47.69	5.21	35.66	44.20	44.36	54.00	-9.64	AV	Horizontal
7320	68.22	7.10	36.50	44.43	67.39	74.00	-6.61	Pk	Horizontal
7320	46.39	7.10	36.50	44.43	45.56	54.00	-8.44	AV	Horizontal
			High Chan	inel (2480 M	ИHz) (O-QP	SK)Above 1	IG		
4960	68.70	5.21	35.52	44.21	65.22	74.00	-8.78	Pk	Vertical
4960	48.63	5.21	35.52	44.21	45.15	54.00	-8.85	AV	Vertical
7440	69.74	7.10	36.53	44.60	68.77	74.00	-5.23	Pk	Vertical
7440	45.46	7.10	36.53	44.60	44.49	54.00	-9.51	AV	Vertical
4960	69.68	5.21	35.52	44.21	66.20	74.00	-7.80	Pk	Horizontal
4960	50.75	5.21	35.52	44.21	47.27	54.00	-6.73	AV	Horizontal
7440	70.83	7.10	36.53	44.60	69.86	74.00	-4.14	Pk	Horizontal
7440	46.15	7.10	36.53	44.60	45.18	54.00	-8.82	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



UT:	Zigbee F	Plug Mo	dule		Mode	el No.:		TRZE	32		
emperature:	20 ℃				Relat	tive Hum	idity:	48%			
est Mode:	Mode2/	Mode4			Test	By:		Gava	n Zhang		
Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Factor		mission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(d	dBµV/m)	(dBµ	V/m)	(dB)	Туре	
				((O-QF	PSK)					
2310.00	70.49	2.97	27.80	43.80)	57.46	7	4	-16.54	Pk	Horizontal
2310.00	48.24	2.97	27.80	43.80)	35.21	5	4	-18.79	AV	Horizontal
2310.00	68.72	2.97	27.80	43.80)	55.69	7	4	-18.31	Pk	Vertical
2310.00	47.80	2.97	27.80	43.80)	34.77	5	4	-19.23	AV	Vertical
2390.00	70.90	3.14	27.21	43.80)	57.45	7	4	-16.55	Pk	Vertical
2390.00	46.05	3.14	27.21	43.80)	32.60	5	4	-21.40	AV	Vertical
2390.00	68.10	3.14	27.21	43.80)	54.65	7	4	-19.35	Pk	Horizontal
2390.00	47.37	3.14	27.21	43.80)	33.92	5	4	-20.08	AV	Horizontal
2483.50	68.23	3.58	27.70	44.00)	55.51	7	4	-18.49	Pk	Vertical
2483.50	47.11	3.58	27.70	44.00)	34.39	5	4	-19.61	AV	Vertical
2483.50	69.16	3.58	27.70	44.00)	56.44	7	4	-17.56	Pk	Horizontal
2483.50	45.26	3.58	27.70	44.00)	32.54	5	4	-21.46	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.



Ľ	JT:	Zigbee	Plug M	odule		Model No.:		TRZB2		
Ге	mperature:	20 °C				Relative Hu	midity:	48%		
Те	st Mode:	Mode2	/ Mode4	ŀ		Test By:		Gavan Zha	ang	
1		Deeding	Cabla	Antonno	Dragman	F unitarian				
	Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/n	n) (dB)	Туре	
	3260	69.49	4.04	29.57	44.70	58.40	74	-15.60	Pk	Vertical
	3260	49.6	4.04	29.57	44.70	38.51	54	-15.49	AV	Vertical
	3260	69.73	4.04	29.57	44.70	58.64	74	-15.36	Pk	Horizontal
	3260	45.83	4.04	29.57	44.70	34.74	54	-19.26	AV	Horizontal
	3332	70.91	4.26	29.87	44.40	60.64	74	-13.36	Pk	Vertical
	3332	47.75	4.26	29.87	44.40	37.48	54	-16.52	AV	Vertical
	3332	70.77	4.26	29.87	44.40	60.50	74	-13.50	Pk	Horizontal
	3332	49.79	4.26	29.87	44.40	39.52	54	-14.48	AV	Horizontal
	17797	59.46	10.99	43.95	43.50	70.90	74	-3.10	Pk	Vertical
	17797	33.88	10.99	43.95	43.50	45.32	54	-8.68	AV	Vertical
	17788	51.3	11.81	43.69	44.60	62.20	74	-11.80	Pk	Horizontal
	17788	37.37	11.81	43.69	44.60	48.27	54	-5.73	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

a) Set RBW = 100 kHz.

- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Zigbee Plug Module	Model No.:	TRZB2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

EUT:	Zigbee Plug Module	Model No.:	TRZB2
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.5 PEAK OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Zigbee Plug Module	Model No.:	TRZB2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	Zigbee Plug Module	Model No.:	TRZB2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Zigbee Plug Module	Model No.:	TRZB2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Gavan Zhang



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached PCB Antenna (Gain:1.62 dBi). It comply with the standard requirement.



8 TEST RESULTS

8.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	zigbee	2405	Ant1	100	0	0
NVNT	zigbee	2440	Ant1	100	0	0
NVNT	zigbee	2480	Ant1	100	0	0



Spectrum	ר (0	bee 2405MI			
Ref Level 20	.00 dBm Offset	: 2.38 dB 🥃	RBW 10 MHz				(V)
Att	30 dB 👄 SWT		• VBW 10 MHz				
SGL 9 1Pk Clrw)
				M1[1]	M1		1.21 dBm
10 dBm					V	71.	77000 ms
0 dBm							
-10 dBm							
-20 dBm							
-30 dBm							
10.15							
-40 dBm							
-50 dBm			+ +				
-60 dBm							
-70 dBm							
->0 ubii							
CF 2.405 GHz			10001	pts		1	10.0 ms/
Marker Type Ref T	rc X-valu		Y-value	Function	Fun	ction Result]
M1		1.77 ms	11.21 dBm		T diff.	otion Robait	
Ref Level 20	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		Ē
SGL		: 2.39 dB 🖷		:	Hz Ant1		
Ref Level 20 Att SGL 1Pk Clrw	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz	:	Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		
Ref Level 20 Att SGL 91Pk Clrw M1 10 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm 0 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 91Pk Clrw M1 10 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm 0 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm -20 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
M1 M1 10 dBm - -10 dBm -	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm -20 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
M1 0	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
M1 M1 10 dBm - -10 dBm - -20 dBm - -30 dBm - -50 dBm -	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz		Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm	.00 dBm Offset	: 2.39 dB 🖷	RBW 10 MHz	M1[1]	Hz Ant1		0.73 dBm
Ref Level 20 Att SGL 1Pk Clrw 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.44 GHz Marker	00 dBm Offset 30 dB • SWT	2.39 dB 100 ms	RBW 10 MHz	M1[1]			0.73 dBm 67000 ms
Ref Level 20 Att SGL 1Pk Clrw M1 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm	00 dBm Offset 30 dB • SWT	2.39 dB 100 ms	RBW 10 MHz VBW 10 MHz	M1[1]			0.73 dBm 67000 ms
Ref Level 20 Att SGL 9 1Pk Clrw M1 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -30 dBm - -50 dBm - -60 dBm - -70 dBm - CF 2.44 GHz Marker Type Ref	00 dBm Offset 30 dB • SWT	2.39 dB 100 ms	RBW 10 MHz VBW 10 MHz Image: state stat	M1[1]			0.73 dBm 67000 ms
Ref Level 20 Att SGL 9 1Pk Clrw M1 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -40 dBm - -50 dBm - -60 dBm - -70 dBm - -70 dBm - Type Ref	00 dBm Offset 30 dB • SWT	2.39 dB 100 ms	RBW 10 MHz VBW 10 MHz Image: state stat	M1[1]		7.1	0.73 dBm 67000 ms



Ref Level 20.00	dBm Offset 2.42 dB	🖷 RBW 10 MHz				
	30 dB 👄 SWT 100 ms					
SGL 1Pk Clrw						
1PK CIrw			M1[1]		9.80 dBm	
			M1		58.11000 ms	
10 dBm						
D dBm						
-10 dBm						
-20 dBm						
-20 08111						
-30 dBm						
-40 dBm						
50 dBm						
-60 dBm						
-70 dBm						
-70 dBm						
CF 2.48 GHz		10001			10.0 ms/	
CF 2.48 GHZ 1arker		10001 p	115		10.0 ms/	
IGI KGI	X-value	Y-value	Function	Function Resu		



8.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	zigbee	2405	Ant1	11.2	30	Pass
NVNT	zigbee	2440	Ant1	10.75	30	Pass
NVNT	zigbee	2480	Ant1	9.81	30	Pass



Spectrum Ref Level Att SGL Count : 1Pk Max	20.00 dBm 30 dB		2.38 dB 👄 R 10.1 ms 👄 V			Auto Sweep		
				M1	M	1[1]		11.20 dBm 557000 GHz
10 dBm							2.4040	
0 dBm								
-10 dBm								
-								
-20 dBm								
-30 dBm								
-40 dBm		<u> </u>						
-50 dBm								
-60 dBm								
-70 dBm								
CF 2.405 G	-lz			1000	1 pts		Span	10.0 MHz
Spectrum Ref Level Att	20.00 dBm	Offset 2	Wer NV	квж з мн:	z			
Ref Level	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	квж з мн:	z z Mode A	Auto Sweep		
Ref Level Att SGL Count : P1Pk Max	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	квж з мн:	z z Mode A			(▼) 10.75 dBm 77100 GHz
Ref Level Att SGL Count : PIPk Max 10 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : P1Pk Max	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : PIPk Max 10 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : 1Pk Max 10 dBm 0 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : PIPK Max 10 dBm 0 dBm -10 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : ID dBm 0 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : ID dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count 1 SGL Count 1 I0 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count : ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	20.00 dBm 30 dB	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	z z Mode A	Auto Sweep		10.75 dBm
Ref Level Att SGL Count 1 SGL Count 1 I0 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 30 dB 100/100	Offset 2	2.39 dB 👄 R	RBW 3 MH: VBW 10 MH: M1	Z Mode A	Auto Sweep	2.4394	10.75 dBm
Ref Level Att SGL Count : ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	20.00 dBm 30 dB 100/100	Offset 2	2.39 dB 👄 R	XBW 3 MH; XBW 10 MH; M1	Z Mode A	Auto Sweep	2.4394	10.75 dBm +77100 GHz



Spectrum Ref Level 20 Att	30 dB SWT	t 2.42 dB e RBW 3 Mi 10.1 ms e VBW 10 Mi			▽
SGL Count 100 91Pk Max	/100				
		M1	M1[1]	9.81 d 2.479499100 (
10 dBm					
0 dBm					
-10 dBm					
-20 dBm					
-30 dBm					
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm					



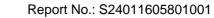
8.3 -6dB Bandwidth

-		Ballan	iatii				
С	ondition	Mode	Frequency	Antenna	-6 dB Bandwidth	Limit -6 dB	Verdict
			(MHz)		(MHz)	Bandwidth (MHz)	
	NVNT	zigbee	2405	Ant1	1.466	0.5	Pass
	NVNT	zigbee	2440	Ant1	1.402	0.5	Pass
	NVNT	zigbee	2480	Ant1	1.518	0.5	Pass

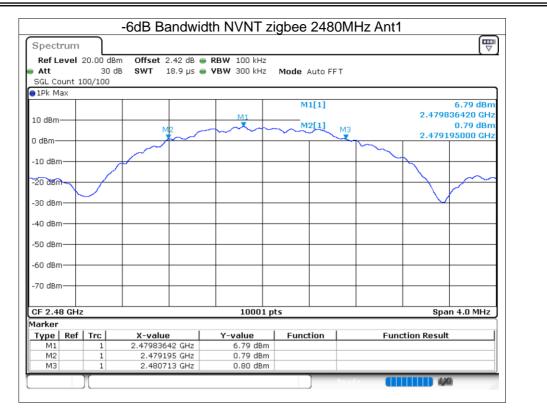














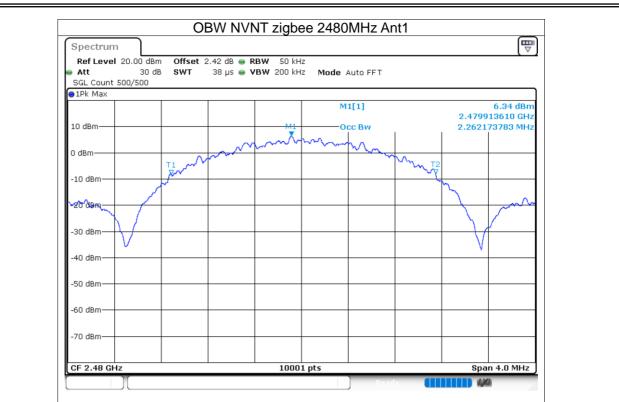
8.4 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	zigbee	2405	Ant1	2.295
NVNT	zigbee	2440	Ant1	2.262
NVNT	zigbee	2480	Ant1	2.262











8.5 Maximum Power Spectral Density Level

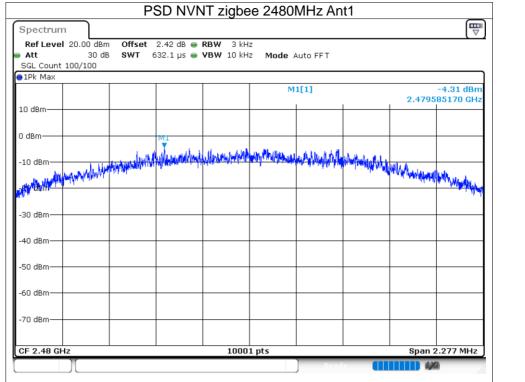
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	zigbee	2405	Ant1	-0.17	8	Pass
NVNT	zigbee	2440	Ant1	-2.34	8	Pass
NVNT	zigbee	2480	Ant1	-4.31	8	Pass

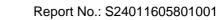


Ref Level 2 Att SGL Count 60	30 dB SWT 6		RBW 3 kH VBW 10 kH		Auto FFT			
●1Pk Max				M	1[1]			-0.17 dBm
10 dBm						+	2.4045	518250 GHz
0 dBm	M1							
	annull have been and set	Analathaninti	with redriced Mathematic	huide and he had he should be	en alternation and the	moundation	Wellerhadian is	1
-10 dBm							a second s	W. S. S. San Sanda Sana
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
-70 dBm								
CF 2.405 GH	z		1000	1 pts			Span :	2.199 MHz
Spectrum					MHz Ar			m
Spectrum Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6		RBW 3 kH VBW 10 kH	z				
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6			z z Mode .			2.4400	-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z z Mode .	Auto FFT		2.4400	-2.34 dBm
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z z Mode . M	Auto FFT			-2.34 dBm
Ref Level 2 Att SGL Count 10 1Pk Max	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M	Auto FFT			-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 IPk Max 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm -50 dBm -60 dBm	30 dB SWT 6	;32.2 μs 🖷	VBW 10 kH	z Mode . M1	Auto FFT		Aprilian Non Non Non Non Non Non Non Non Non No	-2.34 dBm 32380 GHz
Ref Level 2 Att SGL Count 10 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	30 dB SWT 6	;32.2 μs 🖷		z Mode . M1	Auto FFT		Aprilian Non Non Non Non Non Non Non Non Non No	-2.34 dBm 32380 GHz









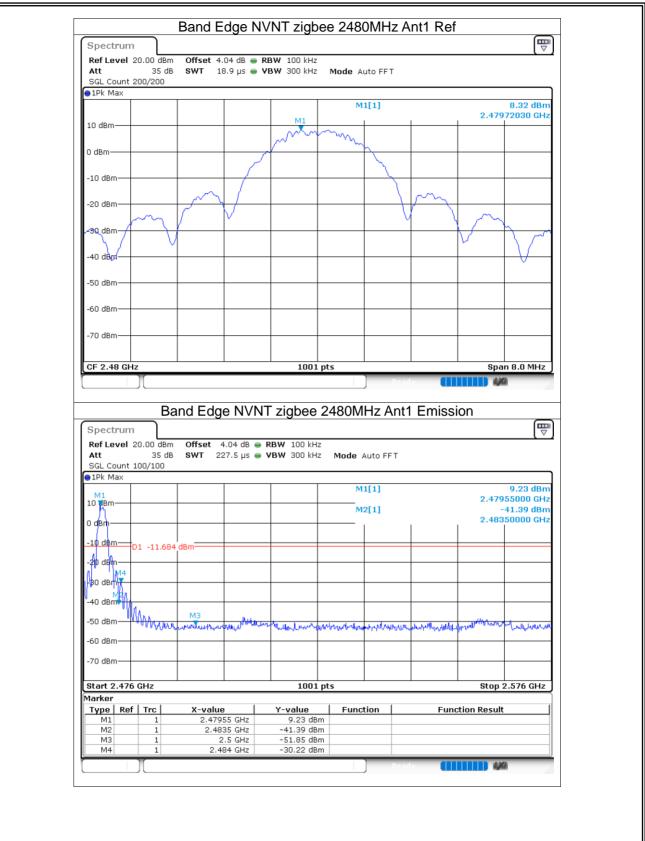


Condition	d Edge Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	zigbee	2405	Ant1	-60.45	-20	Pass
NVNT	zigbee	2480	Ant1	-38.53	-20	Pass



Spectrur		Band E	agon	V					
Ref Level Att	20.00 dBm	SWT 18		BW 100 kHz BW 300 kHz	Mode A	uto FFT			(• ,
IPk Max	1300/1300								
				M1	M	1[1]		2.404	10.15 dBm 478420 GHz
10 dBm				- The	m				
0 dBm				~		\searrow			
						\sim			
-10 dBm—		~					\sim		
-20 dBm—		\int	\bigvee			\vdash			
-30 dBm-		/					1		\mathbb{N}
								ľ	
-40 dBm									
-50 dBm									
-60 dBm—									
-00 0011									
-70 dBm—									
		'		1 1					
CE 2 405 (1001	nte				0 0 MUz
CF 2.405 (GHz			1001	pts	Read		Spa	an 8.0 MHz
CF 2.405 (Read	v III		
CF 2.405 0		nd Edge	e NVN	1001 T zigbee) Read Hz Ant1	I Emissi		۵
Spectrur	Ba			T zigbee	2405M) Read Hz Ant1	I Emissi		
Spectrur Ref Level Att	Ba n 20.00 dBm 35 dB	Offset 4	4.00 dB 👄		2405M		I Emissi		۵
Spectrur Ref Level	Ba n 20.00 dBm 35 dB	Offset 4	4.00 dB 👄	T zigbee	2405M		I Emissi		۵
Spectrur Ref Level Att SGL Count ● 1Pk Max	Ba n 20.00 dBm 35 dB	Offset 4	4.00 dB 👄	T zigbee	2405M		I Emissi	on	۵
Spectrur Ref Level Att SGL Count PIPk Max 10 dBm-	Ba n 20.00 dBm 35 dB	Offset 4	4.00 dB 👄	T zigbee	2405M	Auto FFT	I Emissi	on 2.40	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- 0 dBm-	Ba n 20.00 dBm 35 dB : 100/100	Offset 4 SWT 22	4.00 dB 👄	T zigbee	2405M	Auto FFT 1[1]	I Emissi	on 2.40	9.46 dBm 525000 €Hz
Spectrur Ref Level Att SGL Count PIPk Max 10 dBm	Ba n 20.00 dBm 35 dB	Offset 4 SWT 22	4.00 dB 👄	T zigbee	2405M	Auto FFT 1[1]	I Emissi	on 2.40	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level SGL Count SGL Count I D dBm 0 dBm -10 dBm -20 dBm	Ba n 20.00 dBm 35 dB : 100/100	Offset 4 SWT 22	4.00 dB 👄	T zigbee	2405M	Auto FFT 1[1]	I Emissi	on 2.40	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count 10 dBm	Ba n 20.00 dBm 35 dB : 100/100	Offset 4 SWT 22	4.00 dB 👄	T zigbee	2405M	Auto FFT 1[1]		on 2.40	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count © 1Pk Max 10 dBm	Ba n 20.00 dBm 35 dB : 100/100	Offset 4 SWT 22	4.00 dB 27.5 μs 	T zigbee	2405M	Auto FFT 1[1] 2[1]		0n 2.403 2.400	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	Ba n 20.00 dBm 35 dB : 100/100	Offset 4 SWT 22	4.00 dB 27.5 μs 	T zigbee	2405M	Auto FFT 1[1] 2[1]		0n 2.403 2.400	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count © 1Pk Max 10 dBm	Ba 20.00 dBm 35 dB 100/100	Offset 4 SWT 22	4.00 dB 27.5 μs 	T zigbee	2405M	Auto FFT 1[1] 2[1]		0n 2.403 2.400	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	Ba 20.00 dBm 35 dB 100/100	Offset 4 SWT 22	4.00 dB 27.5 μs 	T zigbee	2405M	Auto FFT 1[1] 2[1]		0n 2.403 2.400	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count O dBm	Ba n 20.00 dBm 35 dB : 100/100 -01 -9.845 d	Offset 4 SWT 22	4.00 dB 27.5 μs 	T zigbee	2405M	Auto FFT 1[1] 2[1]		ON 2.403 2.400	9.46 dBm 525000 €Hz -33.74ftBm
Spectrur Ref Level Att SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Marker	Ba 120.00 dBm 35 dB 100/100 -01 -9.845 d	Offset 4 SWT 22	4.00 dB 27.5 μs μημη (ημογοι		2405M	Auto FFT 1[1] 2[1]	gulation (source of the source	ON 2.403 2.400	9.46 dBm 525000 CHz -33.74 dBm 000000 CHz -33.74 dBm 2.409 GHz
Spectrur Ref Level Att SGL Count ● 1Pk Max 10 dBm -0 dBm -20 dBm -20 dBm -40 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.30 Marker Type Re M1	Ba n 20.00 dBm 35 dB 100/100 -01 -9.845 c -01 -9.845 c -01 -9.845 c -01 -9.845 c -01 -9.845 c -01 -9.845 c	Offset 4 SWT 22	4.00 dB 27.5 μs 4.00 dB 27.5 μs 4.00 dB 4.00 dB 25 μs 25 GHz	T zigbee RBW 100 kHz VBW 300 kHz VBW 400	2405M	Auto FFT 1[1] 2[1]	gulation (source of the source	ON 2.403 2.400	9.46 dBm 525000 CHz -33.74 dBm 000000 CHz -33.74 dBm 2.409 GHz
Spectrur Ref Level Att SGL Count SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70	Ba n 20.00 dBm 35 dB 100/100 01 -9.845 c	Offset 4 SWT 22	4.00 dB 27.5 μs μημη (ημογοι	T zigbee	2405M	Auto FFT 1[1] 2[1]	gulation (source of the source	ON 2.403 2.400	9.46 dBm 525000 CHz -33.74 dBm 000000 CHz -33.74 dBm 2.409 GHz







8.7 Cond	ucted RF	- Spurious Emissio	n			
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	zigbee	2405	Ant1	-58.4	-20	Pass
NVNT	zigbee	2440	Ant1	-56.66	-20	Pass
NVNT	zigbee	2480	Ant1	-56.83	-20	Pass



Spectrum	•	NVNT zigbe				
Ref Level 20.00 dB	Bm Offset 4.00 dB dB SWT 18.9 µs		Mode Auto Fl	FT		()
SGL Count 3000/300	0					
			M1[1]			11.24 dBm
10 dBm			~~	м1 ———	2.405	51250 GHz
				m		
0 dBm	1				<u> </u>	
-10 dBp						
-30 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm		+				
-70 dBm						
CF 2.405 GHz	. Spurious NVI	1001 p NT zigbee		Ant1 Emis	W	n 3.0 MHz
Spectrum Ref Level 20.00 dE	Bm Offset 4.00 dB 🖷	NT zigbee	 2405MHz .		W	n 3.0 MHz
Spectrum Ref Level 20.00 dB Att 30 SGL Count 10/10	Bm Offset 4.00 dB 🖷	NT zigbee	 2405MHz .		W	
Spectrum Ref Level 20.00 dE Att 30 SGL Count 10/10 PIPk Max	Bm Offset 4.00 dB 🖷	NT zigbee	 2405MHz .		sion	9.39 dBm
Spectrum Ref Level 20.00 dE Att 30 SGL Count 10/10	Bm Offset 4.00 dB 🖷	NT zigbee	2405MHz Mode Auto S		sion	(7)
Spectrum Ref Level 20.00 dE Att 30 SGL Count 10/10 IPk Max M1	Bm Offset 4.00 dB 🖷	NT zigbee	2405MHz Mode Auto S		sion	9.39 dBm 2.3970 GHz
Spectrum Ref Level 20.00 dE Att 30 SGL Count 10/10 PIPk Max 10 dBm	dB SWT 265 ms C	NT zigbee	2405MHz Mode Auto S		sion	9.39 dBm 2.3970 GHz 47.17 dBm
Spectrum Ref Level 20.00 dE Att 30 r SGL Count 10/10 P1Pk Max 10 dBm 0 dBm	dB SWT 265 ms C	NT zigbee	2405MHz Mode Auto S		sion	9.39 dBm 2.3970 GHz 47.17 dBm
Spectrum Ref Level 20.00 dE Att 30 dE SGL Count 10/10 Ith Max 0 dBm -10 dBm	dB SWT 265 ms C	NT zigbee	2405MHz Mode Auto S		sion	9.39 dBm 2.3970 GHz 47.17 dBm
T> Spectrum Ref Level 20.00 dE Att 30 f SGL Count 10/10 ● IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB GBM	NT zigbee	2405MHz Mode Auto S		sion	9.39 dBm 2.3970 GHz 47.17 dBm
Spectrum Ref Level 20.00 dE Att 30 r SGL Count 10/10 ● IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms dB dB dB dB dB MB MB MB MS MS	NT zigbee RBW 100 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1]	weep	sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Spectrum Ref Level 20.00 dE Att 30 d SGL Count 10/10 INF Max 0 dBm -10 dBm -20 dBm -40 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms dB dB dB dB dB MB MB MB MS MS	NT zigbee RBW 100 kHz VBW 300 kHz	2405MHz Mode Auto S	weep	sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
T> Spectrum Ref Level 20.00 dB Att 30 r SGL Count 10/10 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms dB dB dB dB dB MB MB MB MS MS	NT zigbee RBW 100 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1]	weep	sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
T> Spectrum Ref Level 20.00 dE Att 30 dS SGL Count 10/10 ID dBm 10 dBm -10 dBm -30 dBm -30 dBm -60 dBm -70 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms dB dB dB dB dB MB MB MB MS MS	NT zigbee	2405MHz Mode Auto S M1[1] M2[1]	weep	sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Spectrum Ref Level 20.00 dB Att 30 dB SGL Count 10/10 IPk Max I0 dBm 10 dBm -10 dBm -30 dBm -30 dBm -30 dBm -60 dBm	BIM Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms dB dB dB dB dB MB MB MB MS MS	NT zigbee RBW 100 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1]	weep	sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Ty Spectrum Ref Level 20.00 dB Att 30 SGL Count 10/10 IPk Max 0 dBm 10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -70 dBm Start 30.0 MHz Marker Type Type	Sm Offset 4.00 dB dB SWT 265 ms dB 3 MB 3 MB 3 MB 3 MB 3 MB 3 MB	NT zigbee RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz	2405MHz Mode Auto S M1[1] M2[1] M2[1]		sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Ty Spectrum Ref Level 20.00 dE Att 30 d SGL Count 10/10 IPK Max 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm	Sm Offset 4.00 dB dB SWT 265 ms 3 3 MB 3 MB 3 MB 3 MB 3 MB 3 MB MB<	NT zigbee RBW 100 kHz YBW 300 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		Sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Spectrum Ref Level 20.00 dB Att 30 dB SGL Count 10/10 IPk Max M1 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -70 dBm Start 30.0 MHz Marker Type Ref M1 1 M3 1 M4 1	Sim Offset 4.00 dB dB SWT 265 ms dB 3 MB MB <td>NT zigbee RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz</td> <td>2405MHz Mode Auto S M1[1] M2[1] M</td> <td></td> <td>Sion</td> <td>9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz</td>	NT zigbee RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1] M		Sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz
Ty Spectrum Ref Level 20.00 dE Att 30 d SGL Count 10/10 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 30.0 MHz Marker Type M1 1 M2 M3	Sm Offset 4.00 dB dB SWT 265 ms dB SWT 265 ms	NT zigbee RBW 100 kHz YBW 300 kHz VBW 300 kHz	2405MHz Mode Auto S M1[1] M2[1] M	weep	Sion	9.39 dBm 2.3970 GHz 47.17 dBm 7.2034 GHz



