



Test Report

FCC Part15 Subpart C& Industry Canada RSS-247 Issue 2

Product Name: EZ-BT Module

Model No. : CYBT-343026-01;CYBT-343029-01;CYBT-

143038-01

FCC ID : WAP3026

IC : 7922A-3026

Applicant: Cypress Semiconductor

Address: 198 Champion Ct, San Jose, California 95134

Date of Receipt: May. 11th, 2017

Test Date : May. 11th, 2017~Jun. 19th, 2017

Issued Date : Jun. 22nd, 2017

Report No. : 1752099R-RF-US-P06V02

Report Version: V 1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Co., Ltd.



Test Report Certification

Issued Date: Jun. 22nd, 2017

Report No. : 1752099R-RF-US-P06V02



Product Name : EZ-BT Module

Applicant : Cypress Semiconductor

Address : 198 Champion Ct, San Jose, California 95134

Manufacturer : Cypress Semiconductor

Address : 198 Champion Ct, San Jose, California 95134

Model No. : CYBT-343026-01;CYBT-343029-01;CYBT-143038-01

FCC ID : WAP3026

IC : 7922A-3026

EUT Voltage : DC 2.3-3.6V
Test Voltage : AC120V/60Hz

Brand Name : Plantronics

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2015

KDB DA 00-705 Released March 30, 2000 ANSI C63.4: 2014; ANSI C63.10: 2013

Industry Canada RSS-Gen Issue 4/RSS-247 Issue 2

Test Result : Complied

Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.

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TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: 800392; IC Lab Code: 4075B

Documented By : Latty La

(Adm. Specialist: Kitty Li)

Reviewed By :

(Senior Engineer: Jack Zhang)

Approved By :

(Engineering Manager: Harry Zhao)



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12.1.	Limit	100
12.2.	Antenna Connector Construction	100



History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1752099R-RF-US-P06V02	V1.0	Initial Issued Report	Jun. 22nd, 2017



1. General Information

1.1. EUT Description

Product Name	EZ-BT Module
Model No.	CYBT-343026-01;CYBT-343029-01;CYBT-143038-01
Working Voltage	DC 2.3-3.6V
Test Voltage	AC120V/60Hz
Bluetooth Specification	V3.0
Frequency Range	2402- 2480 MHz
Channel Number	V3.0: 79
Channel Separation	V3.0: 1MHz
Type of Modulation	V3.0: GFSK, Pi/4 DQPSK, 8DPSK
Data Rate	V3.0: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps(8DPSK)
Antenna Type	Reference to Antenna List
Peak Antenna Gain	Reference to Antenna List

Note: Model CYBT-343029-01 is identical to Model CYBT-343026-01 and CYBT-143038-01 except for whether there is a certified Homekit chip or flash memory inside. Details see table below

Model No.	Flash	Homekit
CYBT-343026-01	Υ	N
CYBT-343029-01	Υ	Υ
CYRT-143038-01	N	N

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Bluetooth Working Frequency of Each Channel: (For V3.0)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A



1.2 Antenna information

Model No.	N/A	N/A					
Antenna manufacturer	N/A						
Antenna Delivery	\boxtimes	1*TX+1*R	*TX+1*RX				
Antenna technology	\boxtimes	SISO					
		МІМО		Basic			
				CDD			
				Beam-forming			
Antenna Type		External		Dipole			
				PIFA			
		lata wa al	\boxtimes	PCB			
		Internal		Ceramic Chip Antenna			
				Metal plate type F antenna			
Antenna Gain	Gain -0.5dBi						

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1.3 Mode of Operation

We has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmitter-1Mbps(GFSK_DH5)
Mode 2: Transmitter-2Mbps(Pi/4 DQPSK_DH5)
Mode 3: Transmitter-3Mbps(8DPSK_DH5)
Mode 4: Transmitter-Hopping

Note:

- 1. For portable device, radiated spurious emission was verified over X, Y, Z Axis, and shown the worst case on this report.
- 2. Regards to the frequency band operation for systems using FHSS modulation: normal operation (hopping) was selected to test for conducted spurious test.
- 3. The extreme test condition for voltage and temperature were declared by the manufacturer.
- 4. The reading values of all the test items contain cable loss.

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1.4 Tested System Details

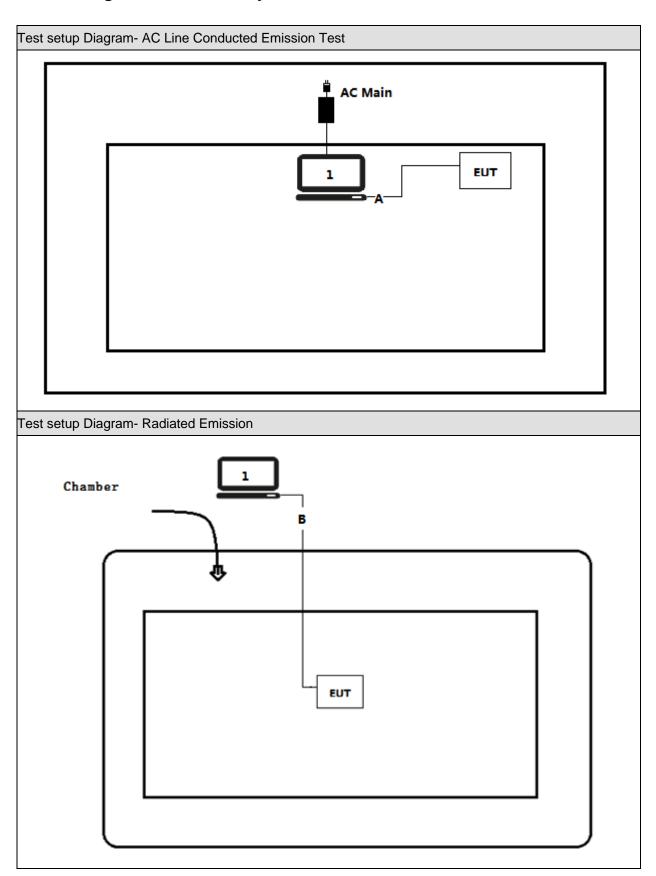
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Р	roduct	Manufacturer	Model No.	Serial No.	Power Cord	
1	Notebook	Think Pad	2526	LV-A3285	Power by adapter	
Α	USB Cable	N/A	N/A	N/A	Shield, 0.75m	
В	USB Cable	N/A	N/A	N/A	Shield, 10m	

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1.5 Configuration of Tested System





1.6 EUT Exercise Software

	1	Setup the EUT and simulators as shown on above.
ſ	2	Turn on the power of all equipment.
	3	Run the Bluetest3 software, and set the test mode and channel, then press OK to start continue Transmit.

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2. Technical Test

2.1. Summary of Test Result

Report No.: 1752099R-RF-US-P06V02

☐ Deviations from the test standards as below description:

For FCC

Double wood Took Itom	Normativa Deferences	Test	Deviation	
Performed Test Item	Normative References	Performed	Deviation	
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.207			
Emissions in restricted frequency	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
bands	Section 15.209			
20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.247(a)(1)			
Carrier Frequency Separation	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.247(a)(1)			
Number of Hopping Frequencies	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.247(a)(1)(iii)			
Time of Occupancy (Dwell Time)	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.247(a)(1)(iii)			
Peak Output Power	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.247(b)(1)			
Emissions in non-restricted	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
frequency bands	Section 15.215(c), 15.247(d)			
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	15.247(d)			
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015	Yes	No	
	Section 15.203	_		

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For IC

Doubours of Took House	Name di la Defensione	Test	Daviation	
Performed Test Item	Normative References	Performed	Deviation	
Conducted Emission	RSS-Gen Issue 4	Yes	No	
	Section 8.8			
Radiated Emission	RSS-Gen Issue 4	Yes	No	
	Section 8.9			
20dB Bandwidth	RSS-247 Issue 2	Yes	No	
	Section 5.1			
Carrier Frequency Separation	RSS-247 Issue 2	Yes	No	
	Section 5.1			
Number of Hopping Frequencies	RSS-247 Issue 2	Yes	No	
	Section 5.1			
Time of Occupancy (Dwell Time)	RSS-247 Issue 2	Yes	No	
	Section 5.1			
Peak Output Power	RSS-247 Issue 2	Yes	No	
	Section 5.4			
Emissions in non-restricted	RSS-247 Issue 2	Yes	No	
frequency bands	Section 5.5			
Radiated Emission Band Edge	RSS-Gen Issue 4	Yes	No	
	Section 8.10			
Antenna Requirement	RSS-Gen Issue 4	Yes	No	
	Section 8.3			

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2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

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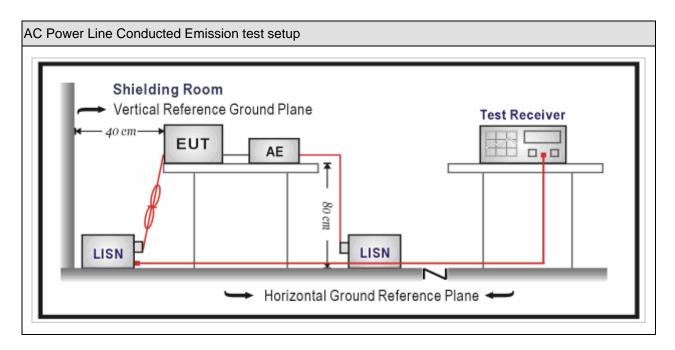
3. Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
EMI Test Receiver	R&S	ESCI	100906	2017.03.05	2018.03.04		
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2017.07.15		
Two-Line V-Network	R&S	ENV 216	101044	2016.09.15	2017.09.15		
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A		
50ohm Termination	SHX	TF2	07081402	2016.09.15	2017.09.15		
Temperature/Humidity	Zhichen	ZC1-2	TR1-TH	2017.01.05	2018.01.04		
Meter	ZIIICHEN	201-2	IKI-IU	2017.01.05	2016.01.04		

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup





3.3. **Limit**

Frequency of Emission	Conducted Limit			
(MHz)	Quasi-peak (dB μ V)	Average(dB μ V)		
0.15-0.5	66 to 56	56 to 46		
0.5-5	56	46		
5-30	60	50		

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

Test Method						
	References Rule	Chapter	Item			
	ANSI C63.10-2013		Standard test method for ac power-line conducted			
			emissions from unlicensed wireless devices			
	ANSI C63.4-2014	7	AC power-line conducted emission measurements			

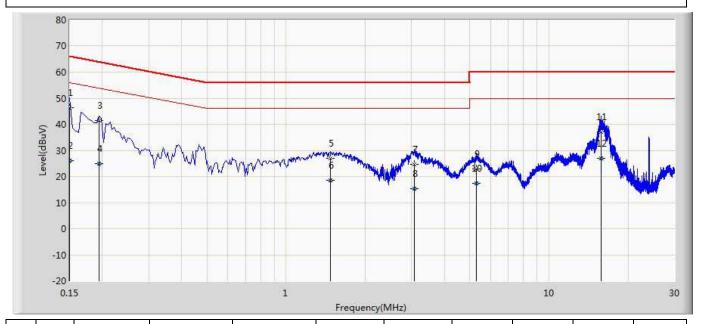
3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB



3.6. Test Result

Site: TR1	Time: 2017/05/22
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: EZ-BT Module	Power: AC 120V/60Hz
Note: Mode 1	



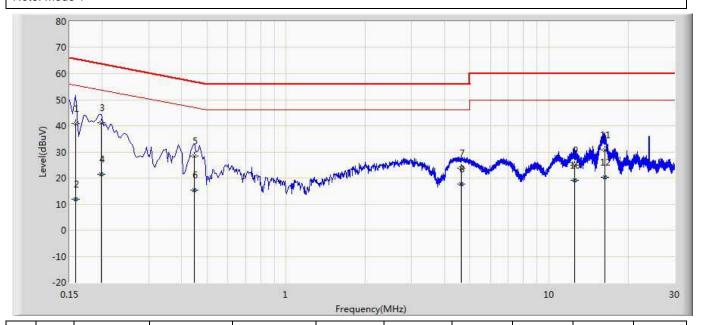
No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Probe	Cable	Amp	Туре
		(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dB)	(dB)	(dB)	
1	*	0.150	46.499	36.623	-19.501	66.000	9.676	0.200	0.000	QP
2		0.150	26.016	16.140	-29.984	56.000	9.676	0.200	0.000	AV
3		0.194	41.480	31.630	-22.384	63.864	9.650	0.200	0.000	QP
4		0.194	24.868	15.018	-28.996	53.864	9.650	0.200	0.000	AV
5		1.478	27.032	17.202	-28.968	56.000	9.630	0.200	0.000	QP
6		1.478	18.663	8.833	-27.337	46.000	9.630	0.200	0.000	AV
7		3.082	24.702	14.852	-31.298	56.000	9.650	0.200	0.000	QP
8		3.082	15.398	5.548	-30.602	46.000	9.650	0.200	0.000	AV
9		5.294	22.918	13.048	-37.082	60.000	9.670	0.200	0.000	QP
10		5.294	17.483	7.613	-32.517	50.000	9.670	0.200	0.000	AV
11		15.774	37.176	26.936	-22.824	60.000	9.840	0.400	0.000	QP
12		15.774	26.951	16.711	-23.049	50.000	9.840	0.400	0.000	AV

Note:

- 1. " * ", means this data is the worst emission level.
- 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



Site: TR1	Time: 2017/05/22
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: EZ-BT Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Probe	Cable	Amp	Туре
		(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dB)	(dB)	(dB)	
1		0.158	40.778	30.907	-24.790	65.568	9.671	0.200	0.000	QP
2		0.158	11.768	1.897	-43.800	55.568	9.671	0.200	0.000	AV
3	*	0.198	41.132	31.272	-22.562	63.694	9.660	0.200	0.000	QP
4		0.198	21.314	11.454	-32.380	53.694	9.660	0.200	0.000	AV
5		0.446	28.339	18.505	-28.610	56.949	9.634	0.200	0.000	QP
6		0.446	15.479	5.645	-31.470	46.949	9.634	0.200	0.000	AV
7		4.638	23.635	13.765	-32.365	56.000	9.670	0.200	0.000	QP
8		4.638	17.586	7.716	-28.414	46.000	9.670	0.200	0.000	AV
9		12.510	24.815	14.721	-35.185	60.000	9.770	0.324	0.000	QP
10		12.510	19.084	8.990	-30.916	50.000	9.770	0.324	0.000	AV
11		16.318	30.651	20.411	-29.349	60.000	9.840	0.400	0.000	QP
12		16.318	20.162	9.922	-29.838	50.000	9.840	0.400	0.000	AV

Note:

- 1. " * ", means this data is the worst emission level.
- 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



4. Emissions in restricted frequency bands

4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2						
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date	
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	2018.03.28	
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15	
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15	
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01	
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.04	2018.01.03	

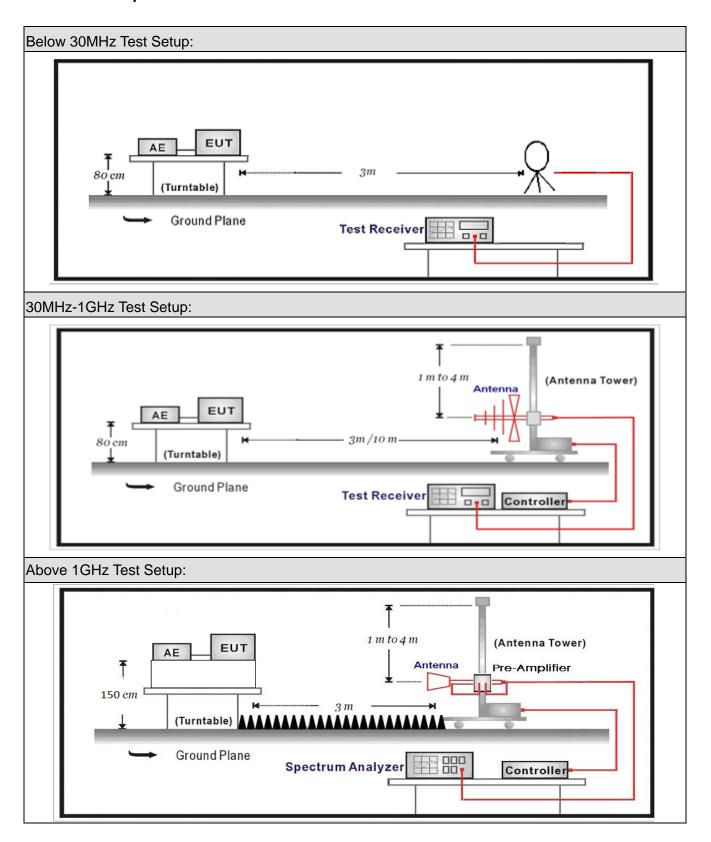
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Radiated Emission(Above 1GHz) / AC-5							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.04	2018.01.03		
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05		
Preamplifier	QuieTek	AP-040G	CHM-0906001	2017.05.06	2018.05.05		
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21		
Broad-Band Horn							
Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	106	AC5-C1	2017.03.02	2018.03.01		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	106	AC5-C2	2017.03.02	2018.03.01		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	102	AC5-C3	2017.03.02	2018.03.01		
EMI Receiver	Agilent	N9038A	MY51210196	2017.06.10	2018.06.09		
Temperature/Humidity							
Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03		
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the							

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



4.2. Test Setup





4.3. **Limit**

For FCC:

Restricted Bands of operation							
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)				
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15				
0.495 - 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46				
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75				
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5				
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2				
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5				
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7				
6.26775 - 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4				
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5				
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2				
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4				
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12				
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0				
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8				
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5				
12.57675–12.57725	322 – 335.4	3600 – 4400					
13.36 – 13.41							

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For IC:

Restricted Bands of operation					
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)		
0.090-0.110	13.36-13.41	1645.5-1646.5	13.25-13.4		
2.1735-2.1905	16.42-16.423	1660-1710	14.47-14.5		
3.020-3.026	16.69475-16.69525	1718.8-1722.2	15.35-16.2		
4.125-4.128	16.80425-16.80475	2200-2300	17.7-21.4		
4.17725-4.17775	25.5-25.67	2310-2390	22.01-23.12		
4.20725-4.20775	37.5-38.25	2655-2900	23.6-24.0		
5.677-5.683	73-74.6	3260-3267	31.2-31.8		
6.215-6.218	74.8-75.2	3332-3339	36.43-36.5		
6.26775-6.26825	108-138	3345.8-3358	Above 38.6		
6.31175-6.31225	156.52475-156.52525	3500-4400			
8.291-8.294	156.7-156.9	4500-5150			
8.362-8.366	240-285	5350-5460			
8.37625-8.38675	322-335.4	7250-7750			
8.41425-8.41475	399.9-410	8025-8500			
12.29-12.293	608-614	9.0-9.2			
12.51975-12.52025	960-1427	9.3-9.5			
12.57675-12.57725	1435-1626.5	10.6-12.7			

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Restricted Band Emissions Limit				
Frequency (MHz)	Field strength (μV/m)	Field strength (dB µ V/m)	Measurement distance (m)	
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)	
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)	
1.705 - 30	30	29.5	30 _(Note 1)	
30 - 88	100	40	3 _(Note 2)	
88 - 216	150	43.5	3 _(Note 2)	
216 - 960	200	46	3 _(Note 2)	
Above 960	500	54	3 _(Note 2)	

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).



4.4. Test Procedure

Test	Fest Method				
	References Rule	Chapter	Description		
	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless		
			devices below 30 MHz		
	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless		
			devices in the frequency range		
			of 30 MHz to 1000 MHz		
	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless		
			devices above 1 GHz		

4.5. Uncertainty

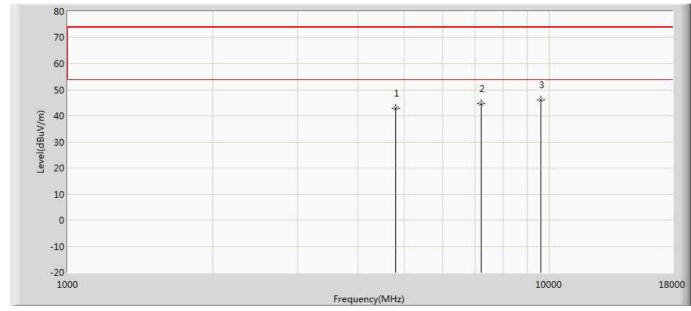
The measurement uncertainty above 1G is defined as ± 3.9 dB

below 1G is defined as ± 3.8 dB



4.6. Test Result

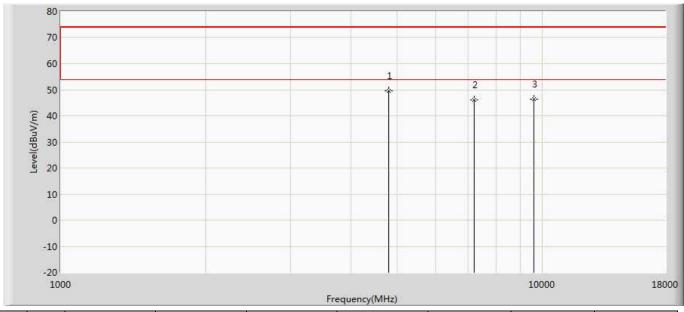
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 1: Transmit at 2402MHz by DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4804.000	43.033	36.952	-30.967	74.000	6.081	PK
2		7206.000	44.511	35.460	-29.489	74.000	9.050	PK
3	*	9608.000	46.136	34.474	-27.864	74.000	11.661	PK



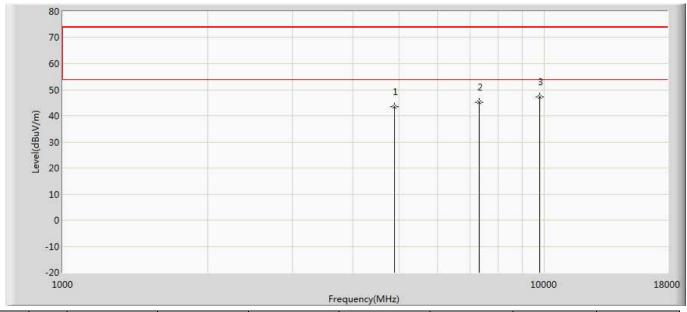
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 1: Transmit at 2402MHz by DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4804.000	49.524	43.443	-24.476	74.000	6.081	PK
2		7206.000	46.039	36.988	-27.961	74.000	9.050	PK
3		9608.000	46.401	34.739	-27.599	74.000	11.661	PK



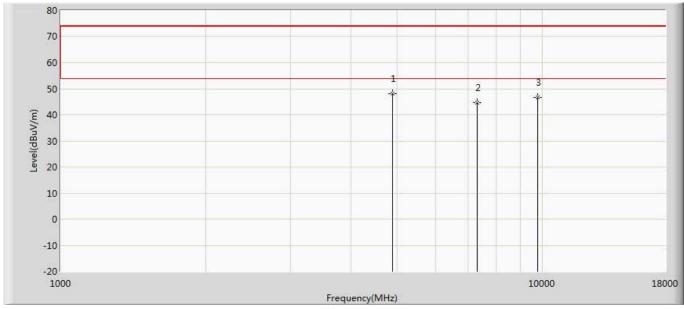
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 1: Transmit at 2441MHz by DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4882.000	43.516	37.525	-30.484	74.000	5.991	PK
2		7323.000	45.348	36.220	-28.652	74.000	9.128	PK
3	*	9764.000	47.174	35.223	-26.826	74.000	11.951	PK



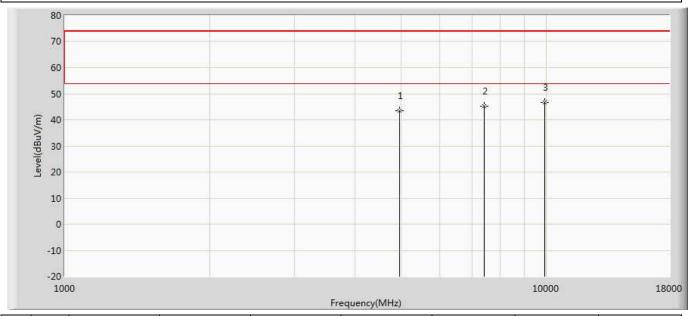
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical	
EUT: EZ-BT Module Power: 120V/60Hz		
Note: Mode 1: Transmit at 2441MHz by DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4882.000	48.029	42.038	-25.971	74.000	5.991	PK
2		7323.000	44.720	35.592	-29.280	74.000	9.128	PK
3		9764.000	46.591	34.640	-27.409	74.000	11.951	PK



Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 1: Transmit at 2480MHz by DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4960.000	43.617	37.546	-30.383	74.000	6.071	PK
2		7440.000	45.157	35.989	-28.843	74.000	9.168	PK
3	*	9920.000	46.626	34.781	-27.374	74.000	11.845	PK



Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 1: Transmit at 2480MHz by DH5		

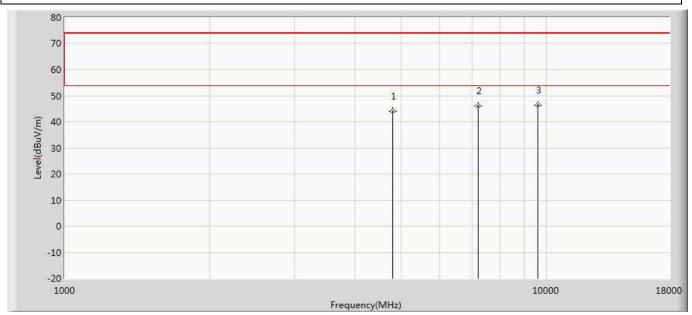
-10

No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4961.000	53.720	47.660	-20.280	74.000	6.060	PK
2		7440.000	45.131	35.963	-28.869	74.000	9.168	PK
3		9920.000	46.279	34.434	-27.721	74.000	11.845	PK

Frequency(MHz)



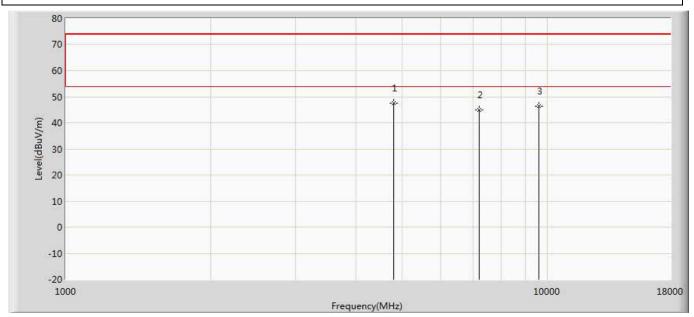
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:22	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 2: Transmit at 2402MHz by 2DH5		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4804.000	43.934	37.853	-30.066	74.000	6.081	PK
2		7206.000	45.955	36.904	-28.045	74.000	9.050	PK
3	*	9608.000	46.284	34.622	-27.716	74.000	11.661	PK



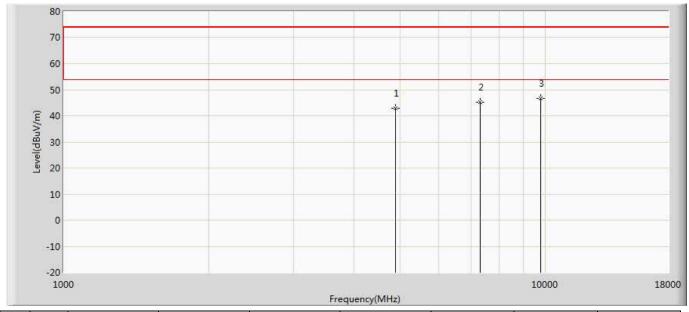
Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:23	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 2: Transmit at 2402MHz by 2DH5	•	



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4804.000	47.582	41.501	-26.418	74.000	6.081	PK
2		7206.000	45.049	35.998	-28.951	74.000	9.050	PK
3		9608.000	46.402	34.740	-27.598	74.000	11.661	PK



Engineer: Scott			
Site: AC5	Time: 2017/05/31 - 10:23		
Limit: FCC_Part15.209_RE(3m)	Margin: 0		
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal		
EUT: EZ-BT Module	Power: 120V/60Hz		
Note: Mode 2: Transmit at 2441MHz by 2DH5	•		



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4882.000	42.994	37.003	-31.006	74.000	5.991	PK
2		7323.000	45.267	36.139	-28.733	74.000	9.128	PK
3	*	9764.000	46.782	34.831	-27.218	74.000	11.951	PK



Engineer: Scott		
Site: AC5	Time: 2017/05/31 - 10:23	
Limit: FCC_Part15.209_RE(3m)	Margin: 0	
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical	
EUT: EZ-BT Module	Power: 120V/60Hz	
Note: Mode 2: Transmit at 2441MHz by 2DH5		

Level(dBuV/m) -10 -20 Frequency(MHz)

No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4882.000	42.496	36.505	-31.504	74.000	5.991	PK
2		7323.000	44.783	35.655	-29.217	74.000	9.128	PK
3	*	9764.000	46.298	34.347	-27.702	74.000	11.951	PK



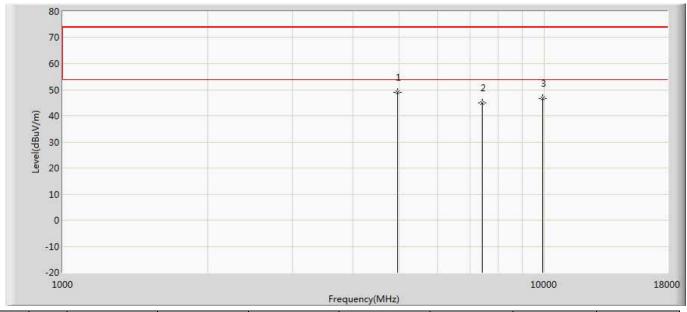
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2480MHz by 2DH5				

Level(dBuV/m) -10 -20 Frequency(MHz)

No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4960.000	42.065	35.994	-31.935	74.000	6.071	PK
2		7440.000	44.504	35.336	-29.496	74.000	9.168	PK
3	*	9920.000	45.919	34.074	-28.081	74.000	11.845	PK



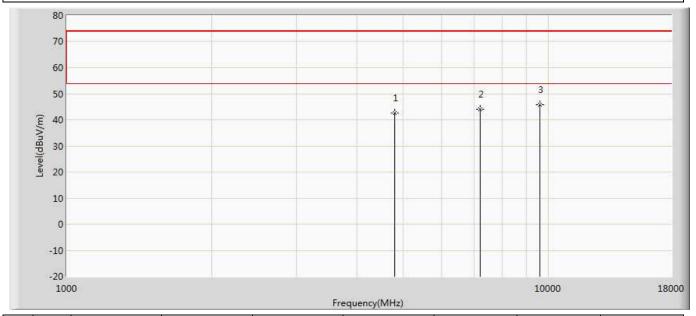
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2480MHz by 2DH5				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4960.000	49.041	42.970	-24.959	74.000	6.071	PK
2		7440.000	44.797	35.629	-29.203	74.000	9.168	PK
3		9920.000	46.590	34.745	-27.410	74.000	11.845	PK



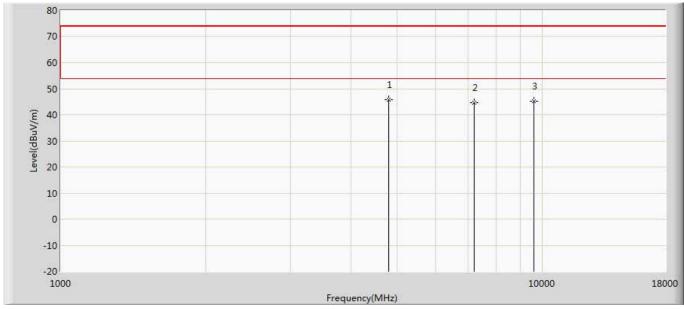
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 3: Transmit at 2402MHz by 3DH5				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4804.000	42.503	36.422	-31.497	74.000	6.081	PK
2		7206.000	43.938	34.887	-30.062	74.000	9.050	PK
3	*	9608.000	45.930	34.268	-28.070	74.000	11.661	PK



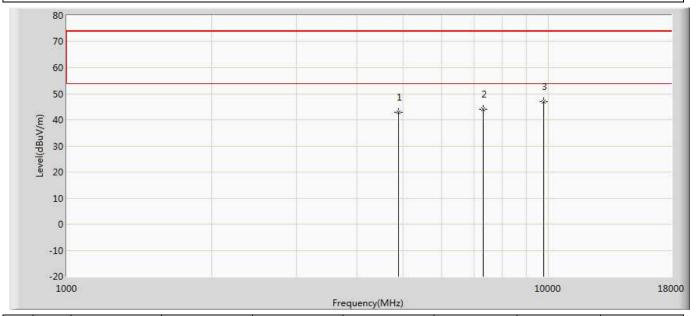
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 3: Transmit at 2402MHz by 3DH5				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4804.000	45.908	39.827	-28.092	74.000	6.081	PK
2		7206.000	44.538	35.487	-29.462	74.000	9.050	PK
3		9608.000	45.097	33.435	-28.903	74.000	11.661	PK



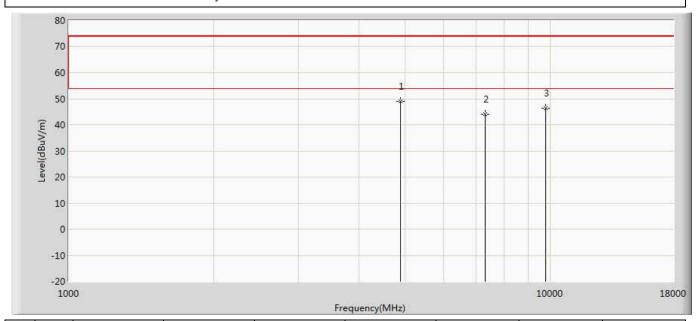
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 3: Transmit at 2441MHz by 3DH5				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4882.000	42.934	36.943	-31.066	74.000	5.991	PK
2		7323.000	44.001	34.873	-29.999	74.000	9.128	PK
3	*	9764.000	47.032	35.081	-26.968	74.000	11.951	PK



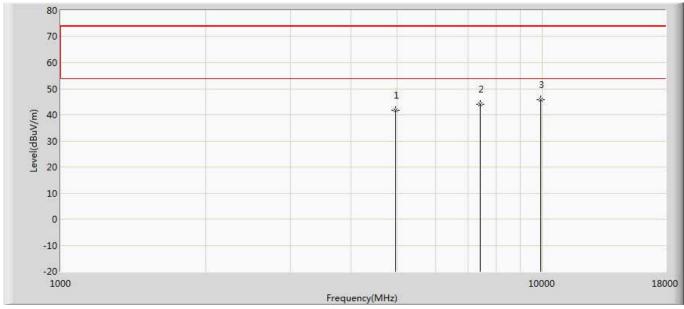
Engineer: Scott				
Site: AC5	Time: 2017/05/31 - 10:23			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 3: Transmit at 2441MHz by 3DH5				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4884.500	48.990	42.999	-25.010	74.000	5.991	PK
2		7323.000	44.021	34.893	-29.979	74.000	9.128	PK
3		9764.000	46.244	34.293	-27.756	74.000	11.951	PK



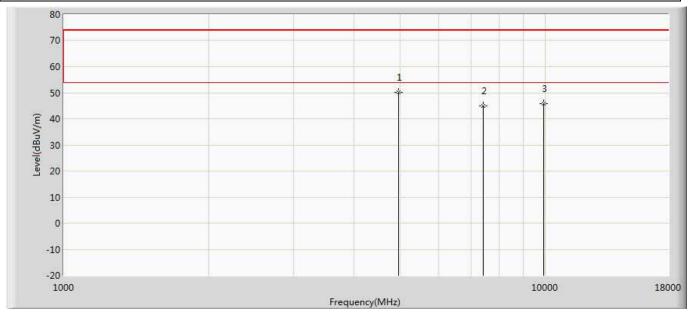
Engineer: Scott					
Site: AC5	Time: 2017/05/31 - 10:23				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2480MHz by 3DH5					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		4960.000	41.825	35.754	-32.175	74.000	6.071	PK
2		7440.000	44.043	34.875	-29.957	74.000	9.168	PK
3	*	9920.000	45.761	33.916	-28.239	74.000	11.845	PK



Engineer: Scott					
Site: AC5	Time: 2017/05/31 - 10:23				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2480MHz by 3DH5					

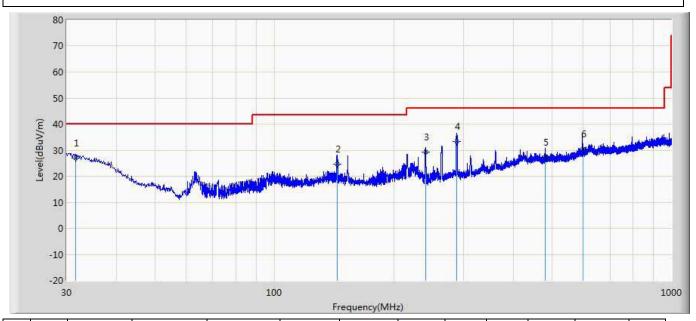


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	4961.000	50.147	44.087	-23.853	74.000	6.060	PK
2		7440.000	45.028	35.860	-28.972	74.000	9.168	PK
3		9920.000	45.678	33.833	-28.322	74.000	11.845	PK



The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2017/05/15
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: EZ-BT Module	Power: AC 120V/60Hz
Note: Mode 1	



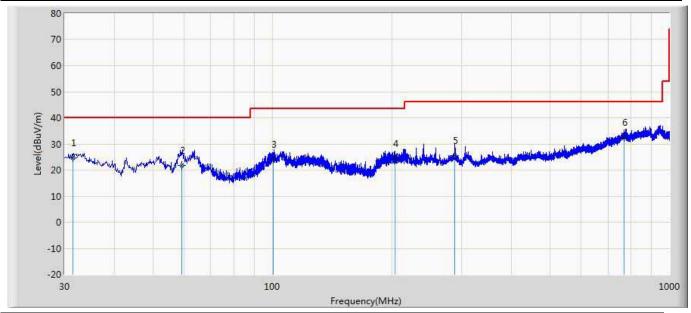
No	Mark	Frequency	Measure	Reading	Over	Limit	Probe	Cable	Amp	Ant	Table	Туре
		(MHz)	Level	Level	Limit	(dBuV/m)	(dB/m)	(dB)	(dB)	Pos	Pos	
			(dBuV/m)	(dBuV)	(dB)					(cm)	(deg)	
1		31.655	27.090	0.100	-12.910	40.000	20.527	6.463	0.000	200	285	QP
2		144.227	24.595	7.100	-18.905	43.500	10.442	7.054	0.000	100	8	QP
3		240.229	29.144	11.700	-16.856	46.000	10.024	7.420	0.000	200	43	QP
4	*	287.590	33.367	12.500	-12.633	46.000	13.290	7.577	0.000	200	351	QP
5		480.251	27.261	0.700	-18.739	46.000	18.453	8.108	0.000	100	251	QP
6		597.531	30.566	2.400	-15.434	46.000	19.744	8.422	0.000	149	360	QP

Note:

- 1. " * ", means this data is the worst emission level.
- 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



Site: AC2	Time: 2017/05/15
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: EZ-BT Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency	Measure	Reading	Over	Limit	Probe	Cable	Amp	Ant	Table	Туре
		(MHz)	Level	Level	Limit	(dBuV/m)	(dB/m)	(dB)	(dB)	Pos	Pos	
			(dBuV/m)	(dBuV)	(dB)					(cm)	(deg)	
1		31.443	24.538	0.900	-15.462	40.000	17.175	6.462	0.000	100	306	QP
2		59.262	21.648	5.400	-18.352	40.000	9.602	6.647	0.000	100	52	QP
3		100.771	23.917	1.800	-19.583	43.500	15.262	6.855	0.000	200	200	QP
4		203.633	24.410	1.500	-19.090	43.500	15.614	7.295	0.000	200	351	QP
5		288.269	25.643	1.000	-20.357	46.000	17.067	7.576	0.000	200	263	QP
6	*	770.131	32.556	0.200	-13.444	46.000	23.542	8.814	0.000	200	115	QP

Note:

- 1. " * ", means this data is the worst emission level.
- 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



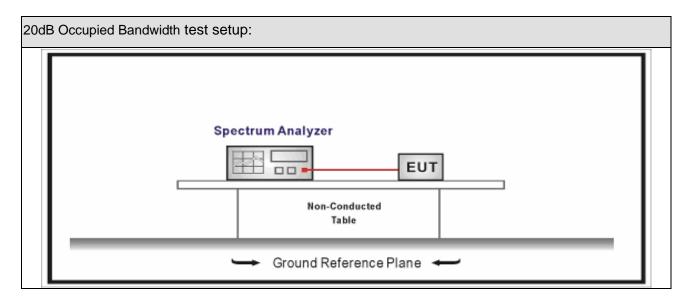
5. 20dB Bandwidth

5.1 Test Equipment

20dB Occupied Bandwidth / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03				
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08				
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2 Test Setup



5.3 Limit

Carrie	er Frequency Separation
\boxtimes	For frequency hopping systems operating in 2400-2483.5 MHz band, within frequency range.
	For frequency hopping systems operating in 902-928 MHz band, the maximum allowed 20 dB
	bandwidth of the hopping channel is 500 kHz.
	For frequency hopping systems operating in 5725-5850 MHz band, the maximum 20 dB
	bandwidth of the hopping channel is 1 MHz.



5.4 Test Procedure

Test	Test Method							
	References Rule	Chapter	Description					
	DA 00-705	N/A	20 dB Bandwidth					

5.5 Uncertainty

The measurement uncertainty is defined as \pm 1 kHz



5.6 Test Result

Product Name	• •	EZ-BT Module	Power	• •	AC 120V/60Hz
Test Mode	•	Mode 1	Test Site	:	TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	20dB Bandwidth	99% Bandwidth
	(MHz)	(kHz)	(kHz)
00	2402	1137	986.65
39	2441	1126	981.15
78	2480	1134	984.91





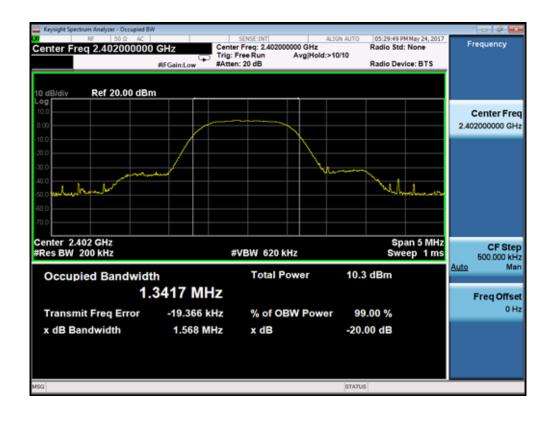




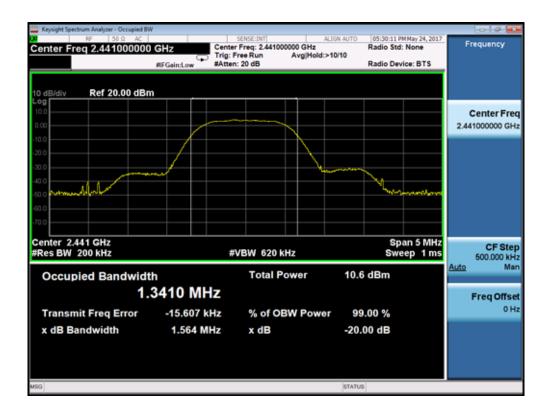


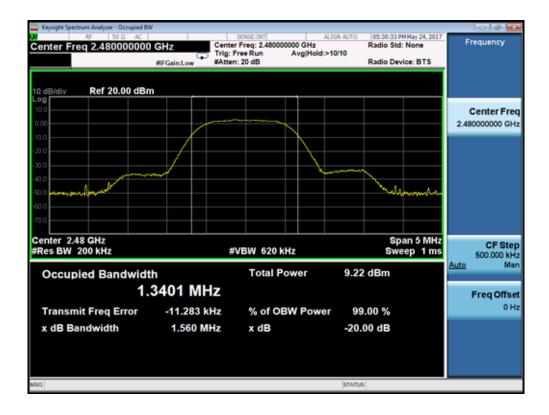
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 2	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	20dB Bandwidth	99% Bandwidth
	(MHz)	(kHz)	(kHz)
00	2402	1568	1341.7
39	2441	1564	1341.0
78	2480	1560	1340.1





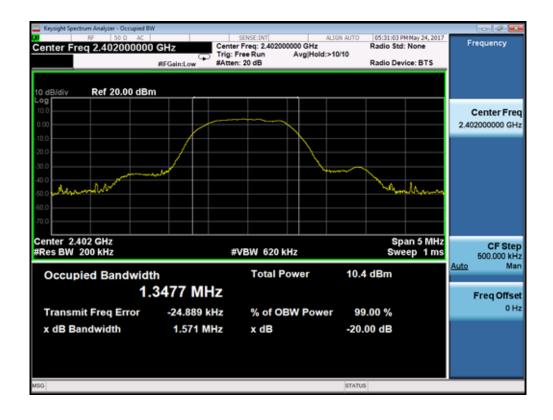




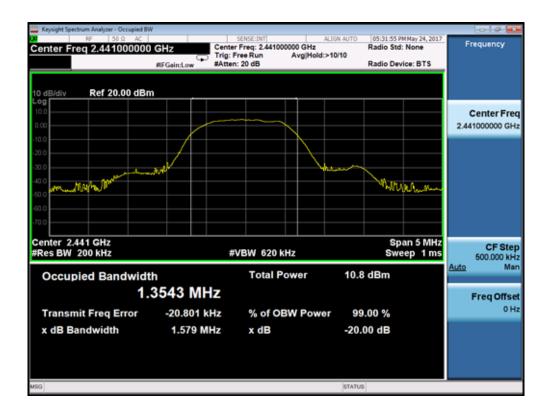


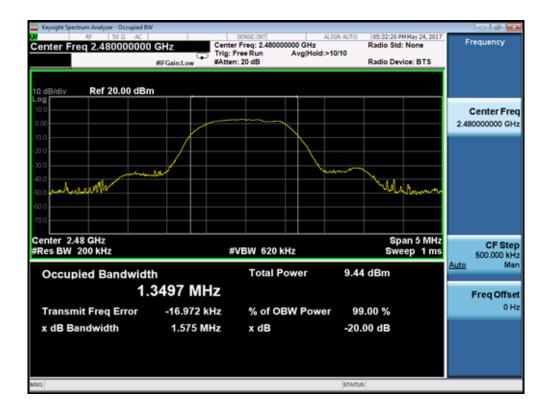
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 3	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	20dB Bandwidth	99% Bandwidth
	(MHz)	(kHz)	(kHz)
00	2402	1571	1347.7
39	2441	1579	1354.3
78	2480	1575	1349.7











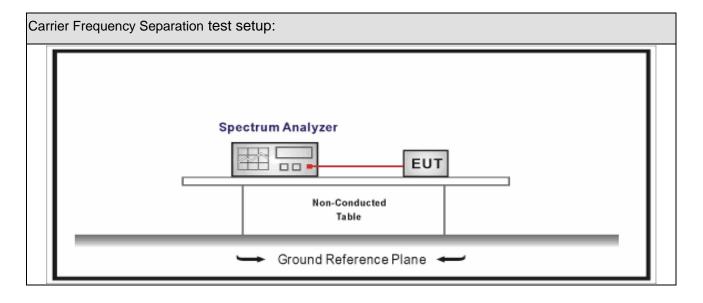
6. Carrier Frequency Separation

6.1. Test Equipment

Carrier Frequency Separation / TR-8								
Instrument Manufacturer Type No. Serial No. Cal. Date Cal. Due								
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03			
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08			
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08			
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09			

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup





6.3. Limit

Carri	er Frequency Separation
	Frequency hopping systems shall have hopping channel carrier frequencies separated by a
	minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
\boxtimes	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping
	channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth
	of the hopping channel.
	The 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at
	least 50 hopping frequencies and the average time of occupancy on any frequency shall not
	be greater than 0.4 seconds within a 20 second period;
	The 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at
	least 25 hopping frequencies and the average time of occupancy on any frequency shall not
	be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB
	bandwidth of the hopping channel is 500 kHz.
	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75
	hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

6.4. Test Procedure

Tes	Test Method							
	References Rule	Chapter	Description					
\boxtimes	ANSI C63.10	7.8.2	Carrier frequency separation					

6.5. Uncertainty

The measurement uncertainty is defined as \pm 1 kHz

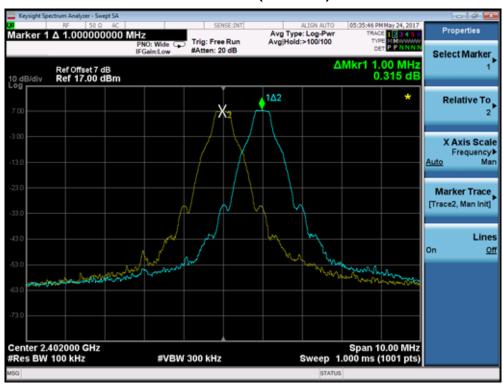
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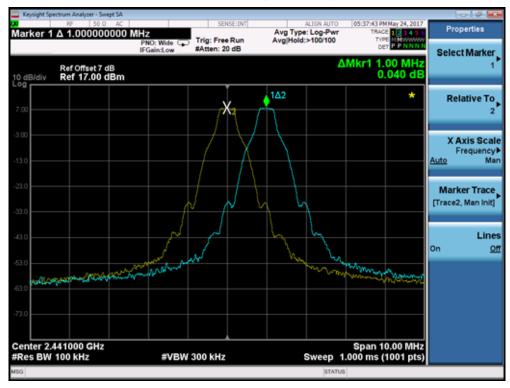
6.6. Test Result

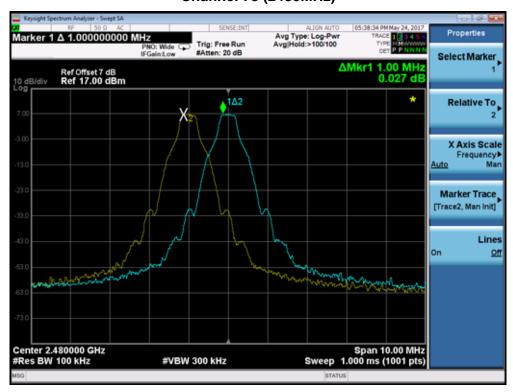
Product Name	• •	EZ-BT Module	Power	• •	AC 120V/60Hz
Test Mode		Mode 1	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Frequency Carrier Frequency Separation		Result
	(MHz)	(kHz)	(kHz)	
00	2402	1000	615.3	Pass
39	2441	1000	614.4	Pass
78	2480	1000	613.1	Pass





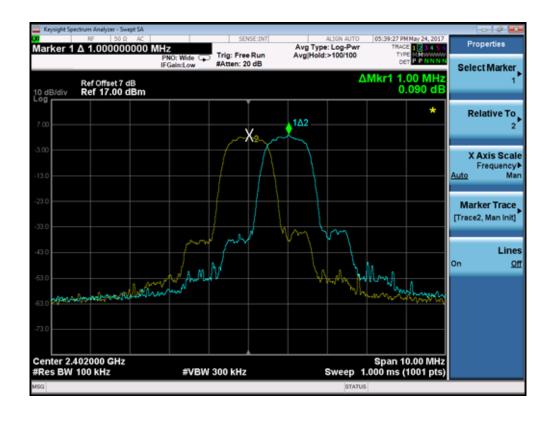




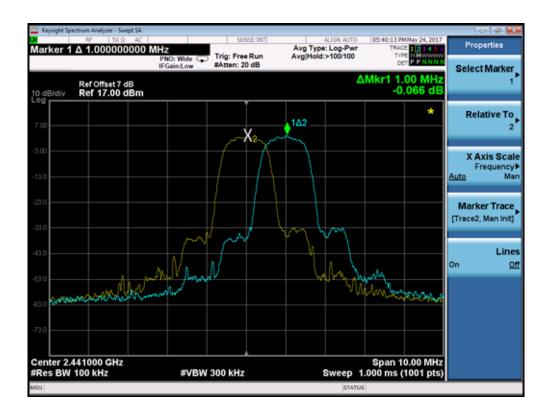


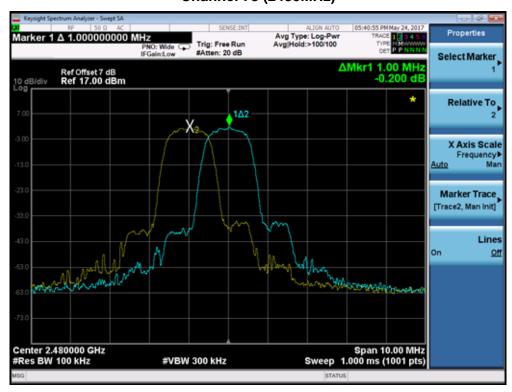
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 2	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Carrier Frequency Separation	Limit	Result
	(MHz)	(kHz)	(kHz)	
00	2402	1000	823.3	Pass
39	2441	1000	852.7	Pass
78	2480	1000	848.0	Pass





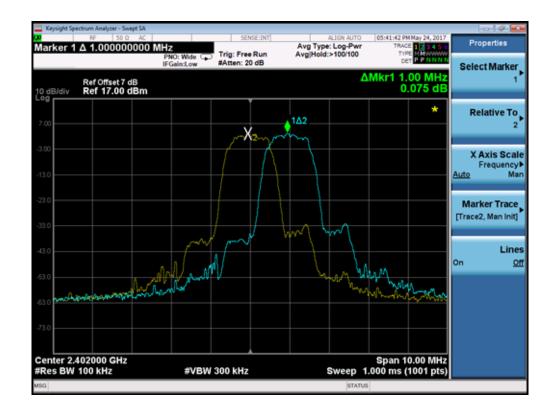




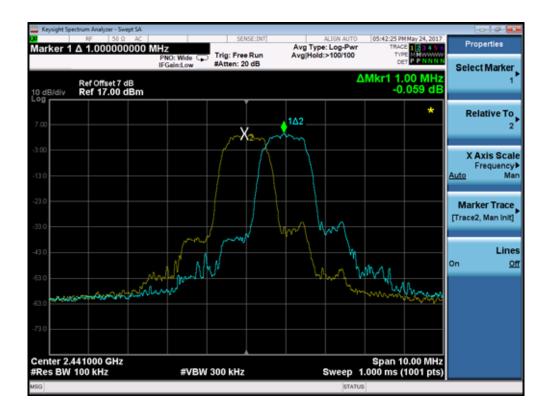


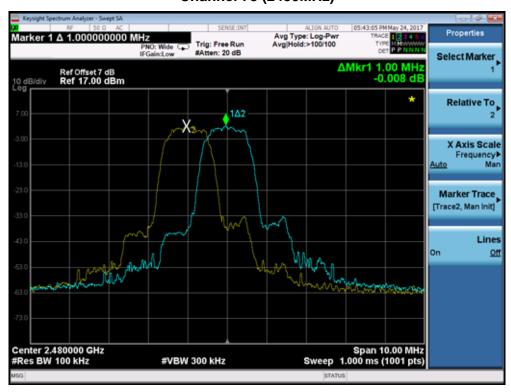
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 3	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Carrier Frequency Separation	Limit	Result
	(MHz)	(kHz)	(kHz)	
00	2402	1000	836.7	Pass
39	2441	1000	855.3	Pass
78	2480	1000	841.3	Pass











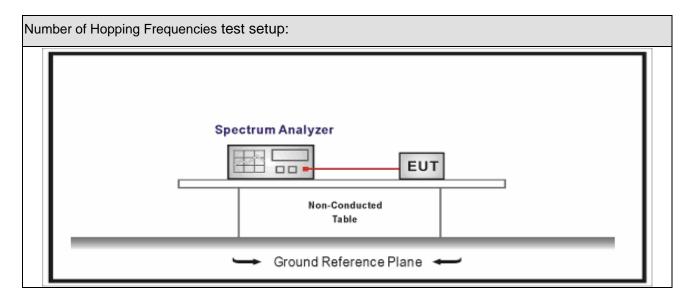
7. Number of Hopping Frequencies

7.1. Test Equipment

Number of Hopping Frequencies / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03				
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08				
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

Carrie	er Frequency Separation
	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15
	hopping frequencies.
	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the
	hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the
	hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75
	hopping frequencies.



7.4. Test Procedure

Test	Test Method							
	References Rule	Chapter	Description					
\boxtimes	ANSI C63.10	7.8.3	Number of Hopping Frequencies					

7.5. Uncertainty

The measurement uncertainty is defined as \pm 1 kHz

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7.6. Test Result

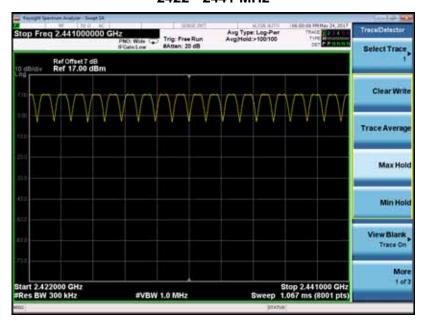
Product Name	• •	EZ-BT Module	Power		AC 120V/60Hz
Test Mode	•	Mode 1	Test Site	:	TR-8
Test Date	:	2017.05.24			

Frequency Band	Number of Hopping Frequencies	Limit	Result
(MHz)			
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz



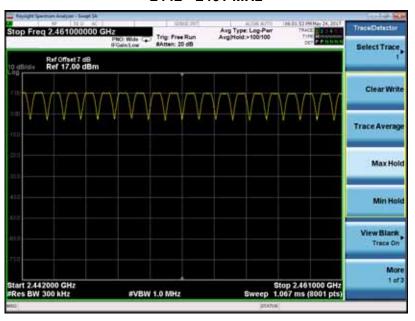
2422 - 2441 MHz



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2442 - 2461 MHz



2462 - 2480 MHz

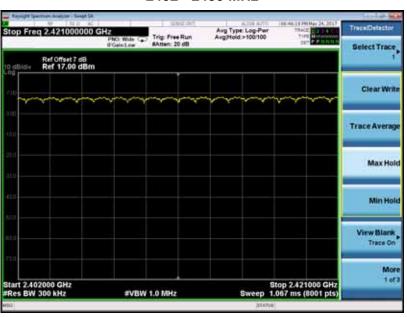




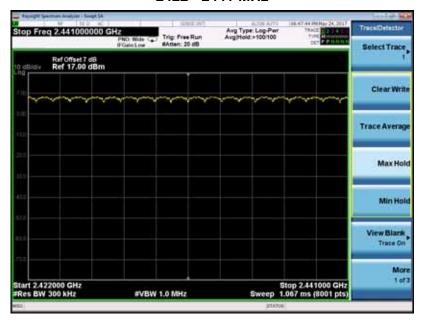
Product Name		EZ-BT Module	Power	AC 120V/60Hz
Test Mode		Mode 2	Test Site	TR-8
Test Date	:	2017.05.24		

Frequency Band	Number of Hopping Frequencies	Limit	Result
(MHz)			
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz

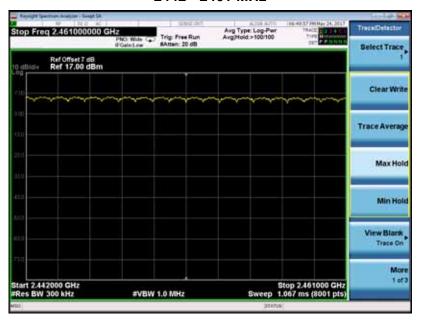


2422 - 2441 MHz

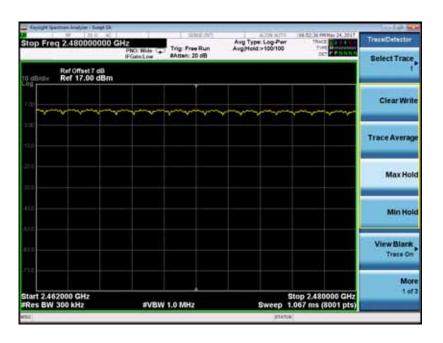




2442 - 2461 MHz



2462 - 2480 MHz

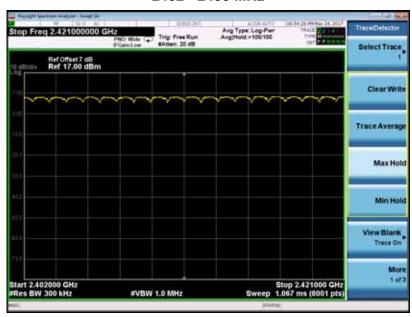




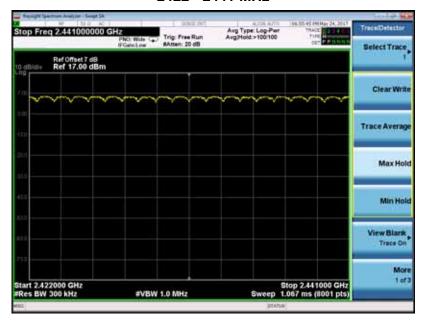
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 3	Test Site		TR-8
Test Date	:	2017.05.24			

Frequency Band	Number of Hopping Frequencies	Limit	Result
(MHz)			
2400 - 2483.5	79	>15	Pass

2402 - 2480 MHz

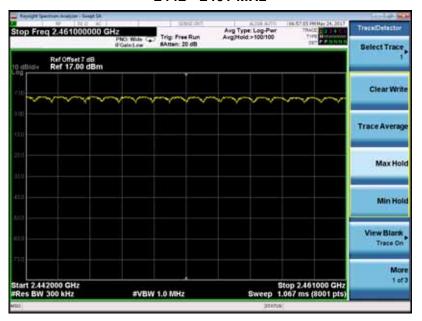


2422 - 2441 MHz

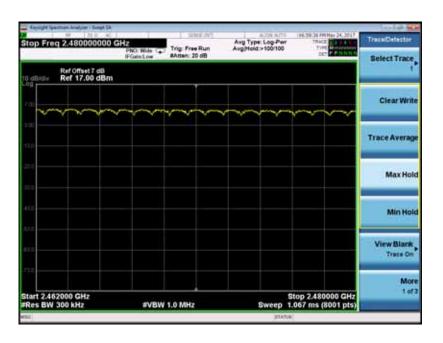




2442 - 2461 MHz



2462 - 2480 MHz





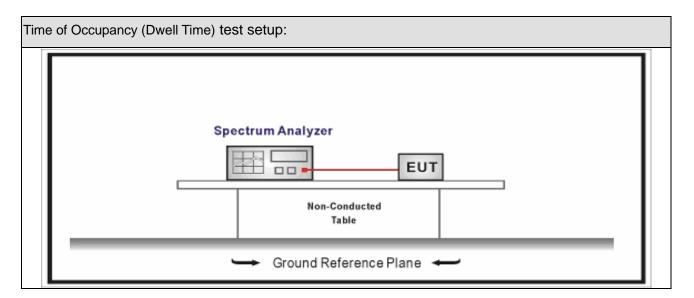
8. Time of Occupancy (Dwell Time)

8.1. Test Equipment

Time of Occupancy (Dwell Time) / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03				
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08				
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

Carrier Frequency Separation				
	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The			
	average time of occupancy on any channel shall not be greater than 0.4 seconds within a			
	period of 0.4 seconds multiplied by the number of hopping channels employed.			
	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of			
	the hopping channel is less than 250 kHz, the system shall use at least 50 hopping			
	frequencies and the average time of occupancy on any frequency shall not be greater than 0.4			
	seconds within a 20 second period			
	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of			
	the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping			

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frequencies and the average time of occupancy on any frequency shall not be greater than 0			
seconds within a 10 second period.			
Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75			
hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The			
average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30			
second period.			

8.4. Test Procedure

Test Method					
	References Rule	Chapter	Description		
\boxtimes	ANSI C63.10	7.8.4	Time of Occupancy (Dwell Time)		

8.5. Uncertainty

The measurement uncertainty is defined as \pm 0.1 us

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8.6. Test Result

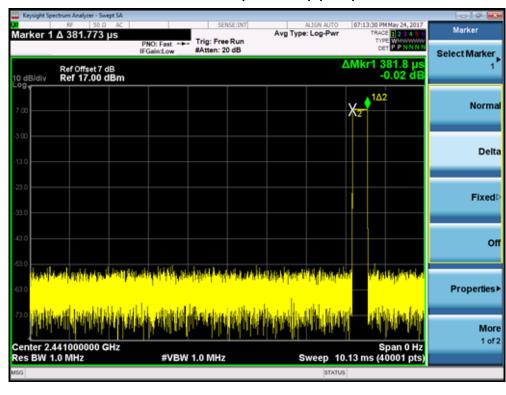
Product Name	• •	EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	• •	Mode 1(GFSK_DH1)	Test Site	:	TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Time of Occupancy	Limit	Result
	(MHz)	(ms)	(ms)	
39	2441	122.18	< 400	Pass

Note1: Test Time Period: 0.4*79=31.6sec

Note2: Time of Occupancy= pulse time*(1600/(2*79)*31.6

Channel 39 (2441MHz)-(DH1)





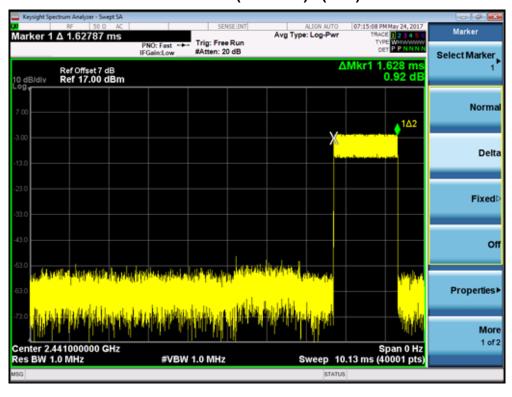
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1(GFSK_DH3)	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Time of Occupancy	Limit	Result
	(MHz)	(ms)	(ms)	
39	2441	520.96	< 400	Pass

Note1: Test Time Period: 0.4*79=31.6sec

Note2: Time of Occupancy= pulse time*(1600/(4*79)*31.6

Channel 39 (2441MHz) - (DH3)





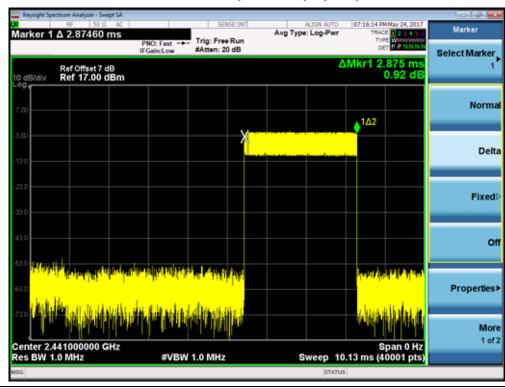
Product Name		EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1(GFSK_DH5)	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Time of Occupancy	Limit	Result
	(MHz)	(ms)	(ms)	
39	2441	920.00	< 400	Pass

Note1: Test Time Period: 0.4*79=31.6sec

Note2: Time of Occupancy= pulse time*(1600/(6*79)*31.6

Channel 39 (2441MHz) - (DH5)





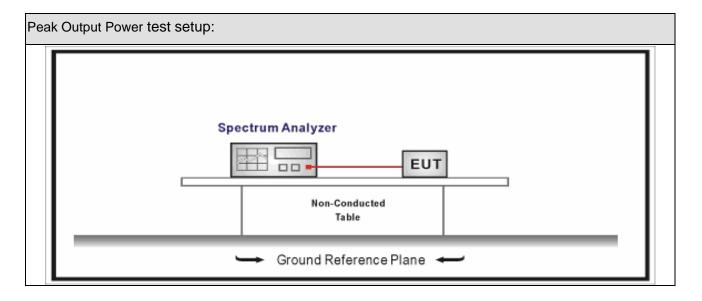
9. Peak Output Power

9.1. Test Equipment

Peak Output Power / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03				
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08				
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup





9.3. Limit

Peal	c Output Power
	Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75
	non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz
	band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125
	watts.
	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping
	channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth
	of the hopping channel, whichever is greater, provided the systems operate with an output
	power no greater than 125 mW.
	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems
	employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50
	hopping channels, but at least 25 hopping channels

9.4. Test Procedure

Test Method						
	References Rule	Chapter	Description			
	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping			
			spread-spectrum (FHSS) devices			

9.5. Uncertainty

The measurement uncertainty is defined as \pm 1.0 dB



9.6. Test Result

Product Name		EZ-BT Module	Power	• •	AC 120V/60Hz
Test Mode	:	Mode 1	Test Site		TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Limit (dBm)	Result
00	2402	8.10	21.00	Pass
39	2441	8.00	21.00	Pass
78	2480	7.18	21.00	Pass

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Report No.: 1752099R-RF-US-P06V02

Product Name	:	EZ-BT Module	Power	AC 120V/60Hz
Test Mode	:	Mode 2	Test Site	TR-8
Test Date		2017.05.24		

Channel No.	Frequency	Measurement Power	Limit	Result
	(MHz)	Output	(dBm)	
		(dBm)		
00	2402	6.56	21.00	Pass
39	2441	6.44	21.00	Pass
78	2480	5.38	21.00	Pass





Product Name	:	EZ-BT Module	Power	:	AC 120V/60Hz
Test Mode		Mode 3	Test Site	:	TR-8
Test Date	:	2017.05.24			

Channel No.	Frequency	Measurement Power	Limit	Result
	(MHz)	Output	(dBm)	
		(dBm)		
00	2402	7.11	21.00	Pass
39	2441	6.92	21.00	Pass
78	2480	5.85	21.00	Pass



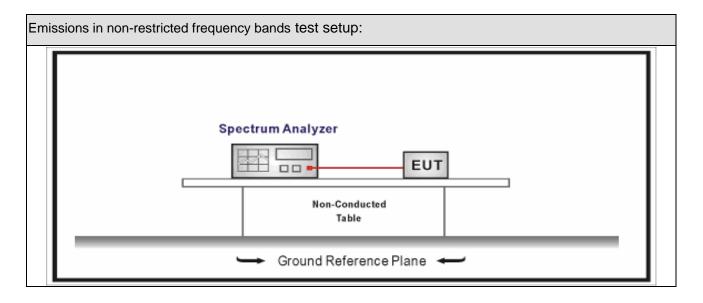
10. Emissions in non-restricted frequency bands

10.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

10.2. Test Setup





10.3. Limit

Un-Restricted Band Emissions Limit				
RF Output power (Detection methods)	Limit(dB)			
RF Output power(Average detector)	30c(Note1)			
RF Output power(PK detector)	20c(Note2)			

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

10.4. Test Procedure

Test Method					
		References Rule	Chapter	Description	
	\boxtimes	ANSI C63.10	7.8.6	Band-edge Compliance of RF Conducted Emissions	

10.5. Uncertainty

The measurement uncertainty is defined as ± 1.0 dB



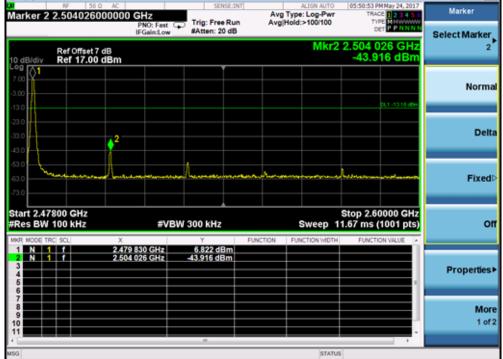
10.6. Test Result

Product Name	• •	EZ-BT Module	Power	• •	AC 120V/60Hz
Test Mode		Mode 1~4	Test Site		TR-8
Test Date	• •	2017.05.24			

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	00	2402	7.578	2400.00	-47.751	55.329	>20	Pass
1	78	2480	6.822	2504.03	-43.916	50.738	>20	Pass
2	00	2402	3.061	2400.00	-51.346	54.407	>20	Pass
2	78	2480	2.044	2503.90	-49.316	51.36	>20	Pass
3	00	2402	3.160	2400.00	-48.660	51.82	>20	Pass
3	78	2480	2.082	2504.03	-49.301	51.383	>20	Pass
4	00~78	00~78	6.349	2400.00	-49.162	55.511	>20	Pass

Note1: The worst case of Emissions in non-restricted frequency bands as below:

2: Mode 1-3, The In-Band PSD is the highest PSD of All channels.



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11. Radiated Emission Band Edge

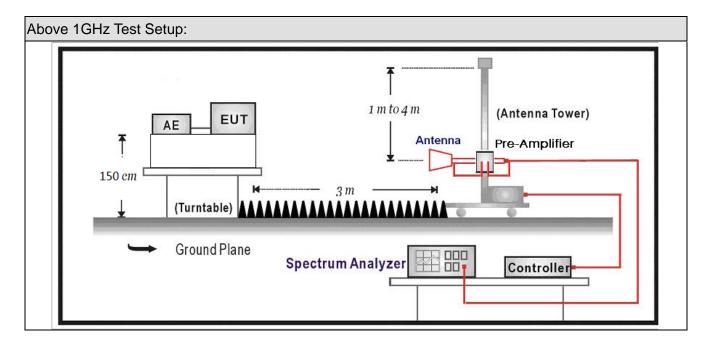
11.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5						
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date	
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.15	
Pre-Amplifier	Miteq	NSP1800-25	1364185	2017.05.03	2018.05.02	
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.11	
Broad-Band Horn	Schwarzbeck	BBHA9170	294			
Antenna	Scriwarzbeck	DDI IA 9170	234	2016.09.18	2017.09.17	
		SUCOFLEX		2017.02.28	2018.02.27	
Coaxial Cable	Huber+Suhner	106	AC5-C1	2017.02.20	2010.02.21	
		SUCOFLEX		2017.02.28	2018.02.27	
Coaxial Cable	Huber+Suhner	106	AC5-C2	2017.02.20	2010.02.21	
Temperature/Humidity						
Meter	Zhichen	ZC1-2	AC5-TH	2017.01.05	2018.01.04	

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11.2. Test Setup



11.3. Limit

Band edge Limit						
Frequency bands (MHz)	Detector	Limit (dB µ V/m)	RBW (MHz)	Distance (m)		
2310-2390	PK	74	1	3		
2483.5-2500	AV	54	1	3		

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

11.4. Test Procedure

Test	Test Method						
	References Rule	Chapter	Description				
\boxtimes	DA 00-705	N/A	duty cycle correction factor				
	ANSI C63.10	6.10	Band-edge testing				
		6.10.5	Restricted-band band-edge measurements				
	☐ ANSI C63.10	6.10.6	Marker-delta method				
	ANSI C63.10		Radiated emissions from unlicensed wireless devices below 30 MHz				

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ANSI C63.10	6.5	Radiated emissions from unlicensed wireless
		devices in the frequency range
		of 30 MHz to 1000 MHz
ANSI C63.10	6.6	Radiated emissions from unlicensed wireless
		devices above 1 GHz

11.5. Uncertainty

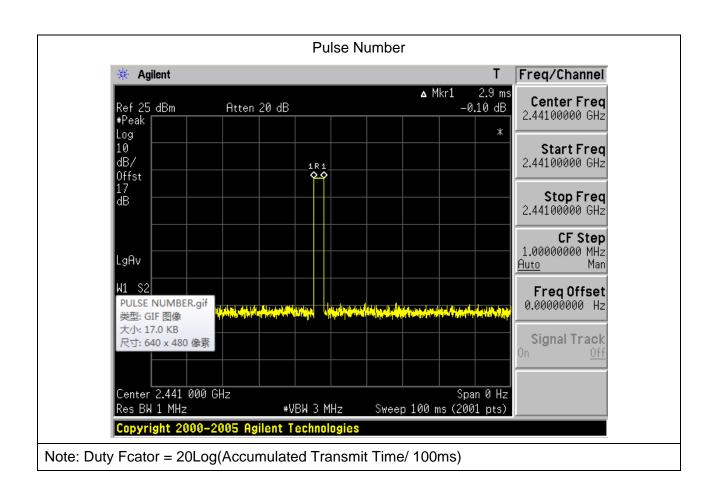
The measurement uncertainty above 1G is defined as \pm 3.9 dB below 1G is defined as \pm 3.8 dB

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11.6. Duty Factor

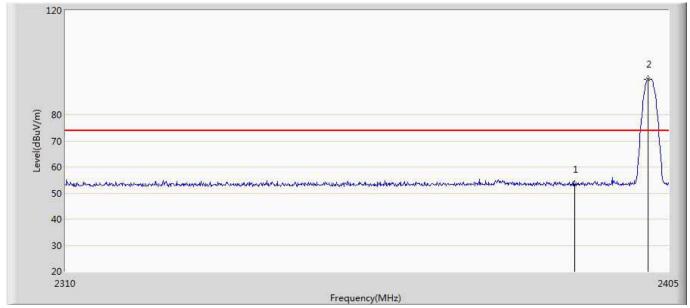
Test Mode	Pluse Time (ms) Pluse Number		Accumulated Transmit Time (ms)	Duty Factor (dB)
Mode 4	2.9	1	2.9	-30.75





11.7. Test Result

Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:23				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 1: Transmit at 2402MHz by DH5					

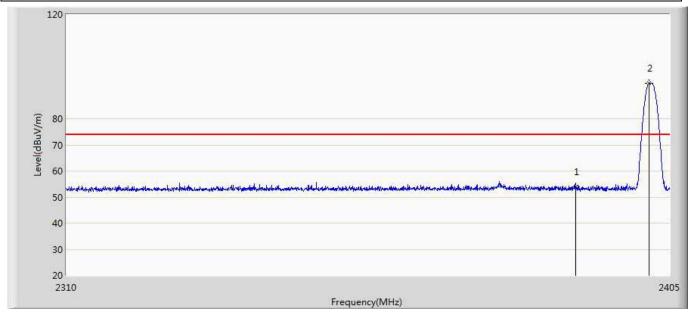


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.315	17.633	-20.685	74.000	35.682	PK
2	*	2401.770	93.768	58.056	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.315	22.565	-31.435	54.000	-24.792	AV
2	*	2401.770	93.768	63.018	N/A	54.000	-24.790	AV



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:28			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 1: Transmit at 2402MHz by DH5				



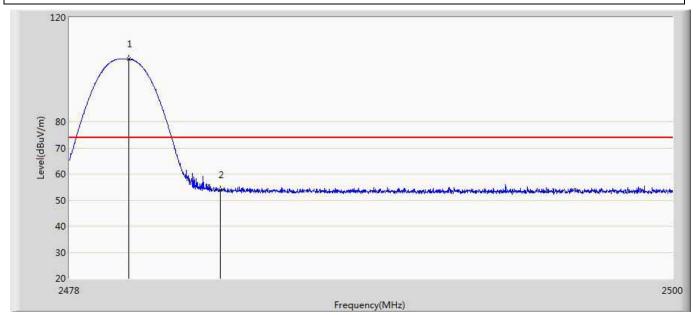
No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.944	18.262	-20.056	74.000	35.682	PK
2	*	2401.770	93.748	58.036	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.944	23.194	-30.806	54.000	-24.792	AV
2	*	2401.770	93.748	62.998	N/A	54.000	-24.790	AV



Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:30				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Made 1: Transmit at 2480MHz by DH5					

Note: Mode 1: Transmit at 2480MHz by DH5



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2480.178	104.017	68.149	N/A	74.000	35.867	PK
2		2483.500	53.881	17.989	-20.119	74.000	35.891	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2480.178	104.017	73.267	N/A	54.000	-24.792	AV
2	*	2483.500	53.881	23.131	-30.869	54.000	-24.790	AV



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:32			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 1: Transmit at 2480MHz by DH5				

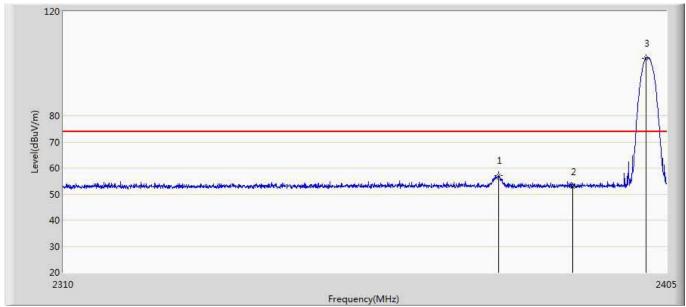
No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2479.914	93.991	58.125	N/A	74.000	35.866	PK
2		2483.500	53.073	17.181	-20.927	74.000	35.891	PK

Frequency(MHz)

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2479.914	93.991	63.241	N/A	54.000	-24.792	AV
2	*	2483.500	53.073	22.323	-31.677	54.000	-24.790	AV



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:34			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2402MHz by 2DH5				

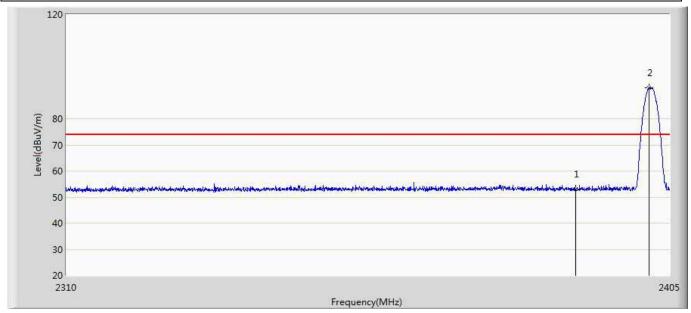


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2378.210	56.976	21.321	-17.024	74.000	35.655	PK
2		2390.000	52.785	17.103	-21.215	74.000	35.682	PK
3	*	2401.722	102.156	66.444	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2378.210	56.976	26.226	-27.774	74.000	35.655	PK
2		2390.000	52.785	22.035	-31.965	74.000	35.682	PK
3	*	2401.722	102.156	71.406	N/A	74.000	35.712	PK



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:36			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2402MHz by 2DH5				

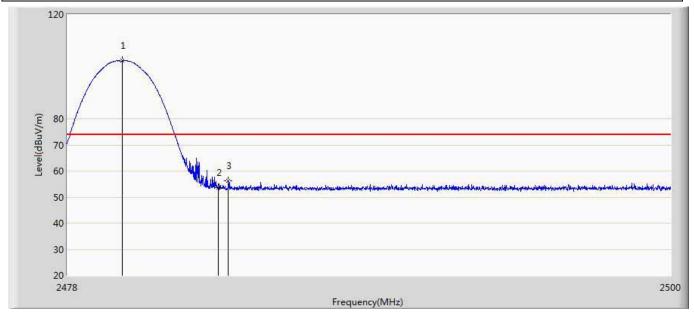


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	52.990	17.308	-21.010	74.000	35.682	PK
2	*	2401.770	91.975	56.263	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	52.990	22.240	-31.760	74.000	35.655	PK
2		2401.770	91.975	61.225	N/A	74.000	35.682	PK



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:38			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2480MHz by 2DH5				

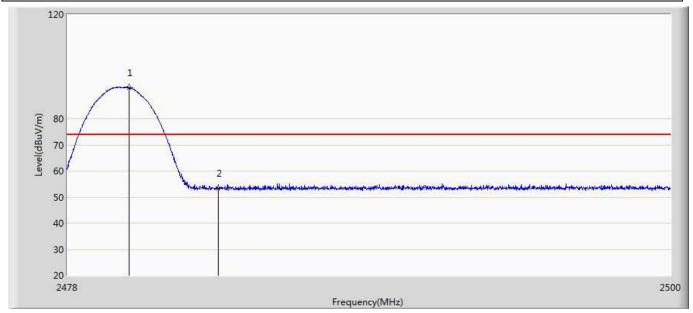


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2480.013	102.216	66.350	N/A	74.000	35.866	PK
2		2483.500	53.515	17.623	-20.485	74.000	35.891	PK
3		2483.863	56.239	20.345	-17.761	74.000	35.895	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2480.013	102.216	71.466	N/A	74.000	35.655	PK
2		2483.500	53.515	22.765	-31.235	74.000	35.682	PK
3	*	2483.863	56.239	25.489	-28.511	74.000	35.712	PK



Engineer: Scott				
Site: AC5	Time: 2017/05/25 - 09:41			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: EZ-BT Module	Power: 120V/60Hz			
Note: Mode 2: Transmit at 2480MHz by 2DH5				

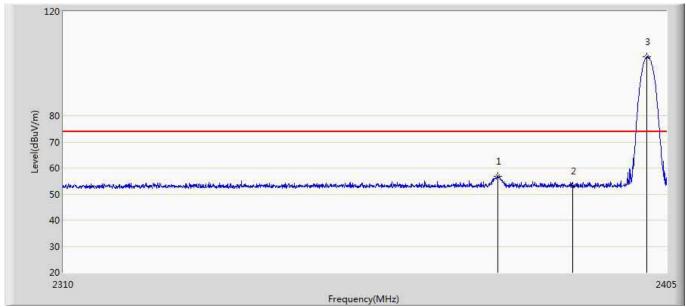


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2480.255	91.934	56.066	N/A	74.000	35.868	PK
2		2483.500	53.386	17.494	-20.614	74.000	35.891	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2480.255	91.934	61.184	N/A	74.000	35.655	PK
2		2483.500	53.386	22.636	-31.364	74.000	35.682	PK



Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:43				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2402MHz by 3DH5					

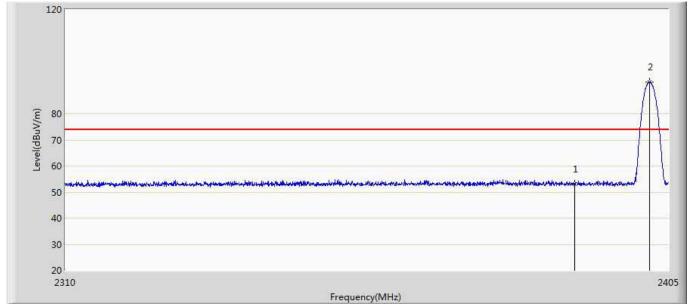


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2378.115	56.803	21.148	-17.197	74.000	35.655	PK
2		2390.000	53.101	17.419	-20.899	74.000	35.682	PK
3	*	2401.817	102.502	66.790	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2378.115	56.803	26.053	-27.947	74.000	35.655	PK
2		2390.000	53.101	22.351	-31.649	74.000	35.682	PK
3	*	2401.817	102.502	71.752	N/A	74.000	35.712	PK



Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:46				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2402MHz by 3DH5					

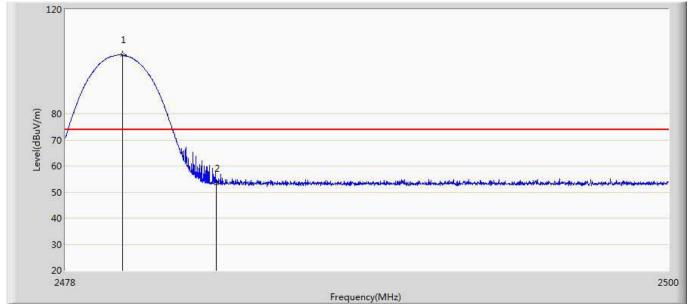


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.111	17.429	-20.889	74.000	35.682	PK
2	*	2401.960	92.308	56.595	N/A	74.000	35.712	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.111	22.361	-31.639	74.000	35.655	PK
2		2401.960	92.308	61.558	N/A	74.000	35.682	PK



Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:47				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2480MHz by 3DH5					

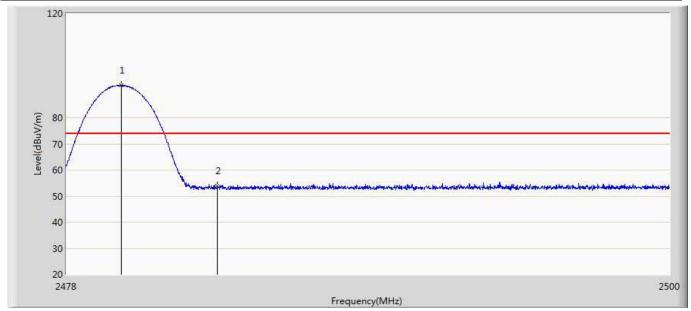


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2480.079	102.468	66.601	N/A	74.000	35.867	PK
2		2483.500	53.241	17.349	-20.759	74.000	35.891	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2480.079	102.468	71.718	N/A	74.000	35.655	PK
2		2483.500	53.241	22.491	-31.509	74.000	35.682	PK



Engineer: Scott					
Site: AC5	Time: 2017/05/25 - 09:50				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical				
EUT: EZ-BT Module	Power: 120V/60Hz				
Note: Mode 3: Transmit at 2480MHz by 3DH5					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2480.013	92.552	56.686	N/A	74.000	35.866	PK
2		2483.500	53.771	17.879	-20.229	74.000	35.891	PK

No	Mark	Frequency	PK Level	AV Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2480.013	92.552	61.802	N/A	74.000	35.655	PK
2		2483.500	53.771	23.021	-30.979	74.000	35.682	PK

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12. Antenna Requirement

12.1. Limit

Antenna Requirement Limit

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

12.2. Antenna Connector Construction

Antenna Connector Construction					
\boxtimes	The use of a permanently attached antenna				
	The antenna use of a unique coupling to the intentional radiator				
	The use of a nonstandard antenna jack or electrical connector				
Please refer to the attached document "Internal Photograph" to show the antenna connector.					

The End