

Test Report

FCC Part15 Subpart C& RSS-247 Issue 2

Product Name : EZ-BT WICED Module
Model No. : CYBT-423028-02,CYBT-423054
-02,CYBT-423060-02
FCC ID : WAP3028
IC : 7922A-3028

Applicant : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States

Date of Receipt : July. 11, 2019
Issued Date : Sept. 10, 2019
Report No. : 1972072R-RF-US-P06V03
Report Version : V 1.0

Note: This report was based on DEKRA Report No. 1812166R-RF-US-P06V03, added new models (CYBT-423054-02,CYBT-423060-02),the models are for different markets.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

This report is not used for social proof in China (or Mainland China) market.

Test Report Certification

Issued Date : Sept. 10, 2019

Report No. : 1972072R-RF-US-P06V03



Product Name : EZ-BT WICED Module
Applicant : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Manufacturer : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Model No. : CYBT-423054-02, CYBT-423028-02, CYBT-423060-02
FCC ID : WAP3028
IC : 7922A-3028
EUT Voltage : DC 1.8-3.6V
Test Voltage : DC 3.3V
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C
KDB DA 00-705 Released March 30, 2000
ANSI C63.10: 2013
RSS-Gen Issue 4/RSS-247 Issue 2
Test Result : Complied
Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Designation Number: CN1199; ISED Lab Code: 4075B

Documented By : 
(Project Assistant: Kitty Li)

Reviewed By : 
(Senior Engineer: Frank He)

Approved By : 
(Engineering Supervisor: Jack Zhang)



Test Report

FCC Part15 Subpart C& RSS-247 Issue 2

Product Name : EZ-BT WICED Module

Model No. : CYBT-423028-02

FCC ID : WAP3028

IC : 7922A-3028

Applicant : Cypress Semiconductor

Address : 198 Champion Ct, San Jose, California 95134
United States

Date of Receipt : Jan. 29, 2018

Test Date : Jan. 30, 2018~ Feb. 08, 2018

Issued Date : Apr. 11, 2018

Report No. : 1812166R-RF-US-P06V03

Report Version : V 1.2

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.

This report must not be used to claim product endorsement by A2LA, TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou) Co., Ltd.

Test Report Certification

Issued Date : Apr. 11, 2018

Report No. : 1812166R-RF-US-P06V03



Product Name : EZ-BT WICED Module
Applicant : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Manufacturer : Cypress Semiconductor
Address : 198 Champion Ct, San Jose, California 95134
United States
Model No. : CYBT-423028-02
FCC ID : WAP3028
IC : 7922A-3028
EUT Voltage : DC 1.8-3.6V
Test Voltage : AC120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C
KDB DA 00-705 Released March 30, 2000
ANSI C63.10: 2013
RSS-Gen Issue 4/RSS-247 Issue 2
Test Result : Complied
Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Designation Number: CN1199; ISED Lab Code: 4075B

Documented By :



(Project Assistant: Kitty Li)

Reviewed By :



(Senior Engineer: Frank He)

Approved By :



(Engineering Manager: Harry Zhao)

TABLE OF CONTENTS

Description	Page
1. General Information.....	7
1.1. EUT Description	7
1.2. Antenna information	9
1.3. Mode of Operation.....	10
1.4. Tested System Details	11
1.5. Configuration of Tested System	12
1.6. EUT Exercise Software	13
2. Technical Test.....	14
2.1. Summary of Test Result	14
2.2. Test Environment.....	16
3. Conducted Emission	17
3.1. Test Equipment	17
3.2. Test Setup	17
3.3. Limit	18
3.4. Test Procedure	18
3.5. Uncertainty	18
3.6. Test Result	19
4. Emissions in restricted frequency bands	19
4.1. Test Equipment	21
4.2. Test Setup	22
4.3. Limit	23
4.4. Test Procedure	26
4.5. Uncertainty	26
4.6. Test Result	27
5. 20dB Bandwidth	48
5.1. Test Equipment	48
5.2. Test Setup	48
5.3. Limit	48
5.4. Test Procedure	49
5.5. Uncertainty	49
5.6. Test Result	50
6. Carrier Frequency Separation	56
6.1. Test Equipment	56
6.2. Test Setup	56
6.3. Limit	57
6.4. Test Procedure	57
6.5. Uncertainty	57

6.6.	Test Result	58
7.	Number of Hopping Frequencies	64
7.1.	Test Equipment	64
7.2.	Test Setup	64
7.3.	Limit	64
7.4.	Test Procedure	65
7.5.	Uncertainty	65
7.6.	Test Result	66
8.	Time of Occupancy (Dwell Time)	69
8.1.	Test Equipment	69
8.2.	Test Setup	69
8.3.	Limit	69
8.4.	Test Procedure	70
8.5.	Uncertainty	70
8.6.	Test Result	71
9.	Peak Output Power	77
9.1.	Test Equipment	77
9.2.	Test Setup	77
9.3.	Limit	78
9.4.	Test Procedure	78
9.5.	Uncertainty	78
9.6.	Test Result	79
10.	Emissions in non-restricted frequency bands	82
10.1.	Test Equipment	82
10.2.	Test Setup	82
10.3.	Limit	83
10.4.	Test Procedure	83
10.5.	Uncertainty	83
10.6.	Test Result	84
11.	Radiated Emission Band Edge	85
11.1.	Test Equipment	85
11.2.	Test Setup	85
11.3.	Limit	86
11.4.	Test Procedure	86
11.5.	Uncertainty	86
11.6.	Duty Factor	87
11.7.	Test Result	88
12.	Antenna Requirement	100

12.1. Limit	100
12.2. Antenna Connector Construction.....	100

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1812166R-RF-US-P06V03	V1.0	Initial Issued Report	Mar. 07, 2018
1812166R-RF-US-P06V03	V1.1	1. P17&P21, add the test software information 2. P45, add the note of Radiated Emission above 18G 3. P50-P55, update the test date 4. P71, update the Time of Occupancy data	Mar. 22, 2018
1812166R-RF-US-P06V03	V1.2	P71-P76, update the Time of Occupancy data	Apr. 11, 2018

1. General Information

1.1. EUT Description

Product Name	EZ-BT WICED Module
Model No.	CYBT-423028-02
Working Voltage	DC 1.8-3.6V
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

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			
Antenna manufacturer	N/A			
Antenna Delivery	☒ 1*TX+1*RX	☐ 2*TX+2*RX	☐ 3*TX+3*RX	
Antenna technology	☒ SISO			
	☐ MIMO	☐ Basic		
		☐ CDD		
		☐ Sectorized		
		☐ Beam-forming		
Antenna Type	☐ External	☐ Dipole		
		☐ Sectorized		
	☒ Internal	☐ PIFA		
		☐ PCB		
		☒ Ceramic Chip Antenna		
		☐ Monopole Antenna		
Antenna Technology	Ant Gain (dBi)			
☒ SISO	Ant1:-1			

1.3 Mode of Operation

DEKRA 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.

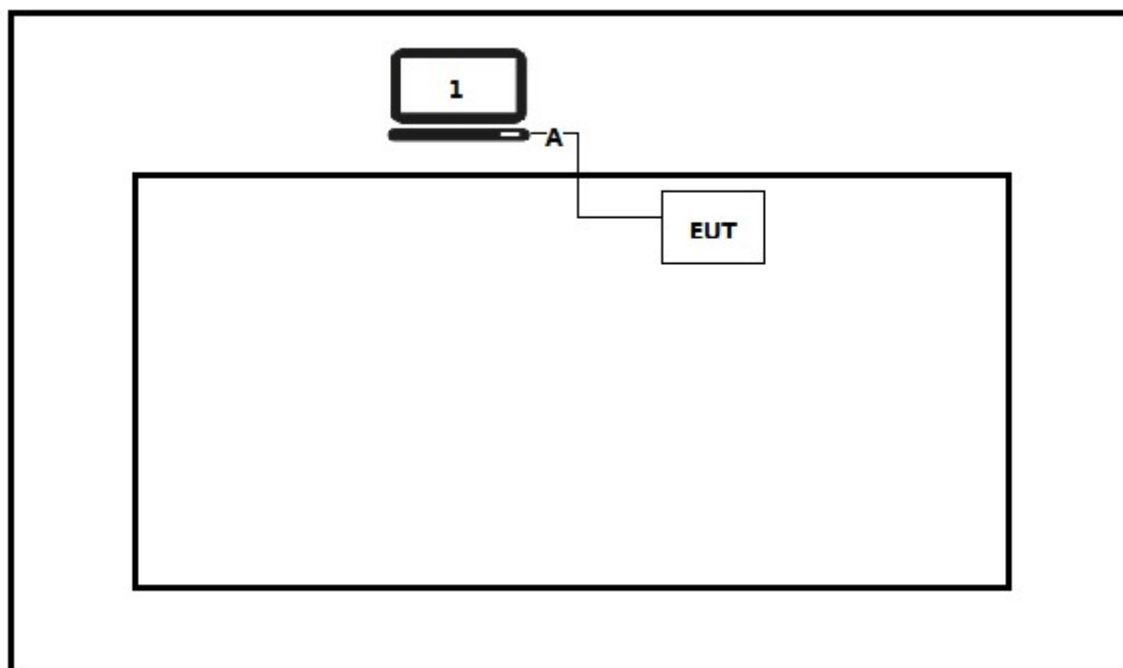
1.4 Tested System Details

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

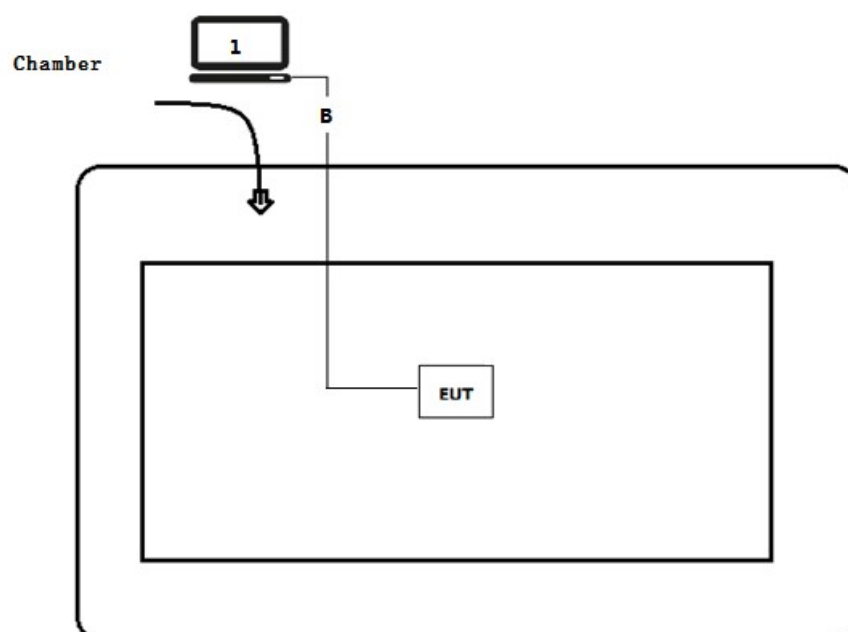
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Think Pad	2526	LV-A3285	Power by adapter
A	USB Cable	N/A	N/A	N/A	Shield, 0.5m
B	USB Cable	N/A	N/A	N/A	Shield, 10m

1.5 Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



1.6 EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Run RF software [Bluetool], and set the test mode and channel, then press OK to start to continue transmit.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
- ☐ Deviations from the test standards as below description:

For FCC

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

For ISED

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

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

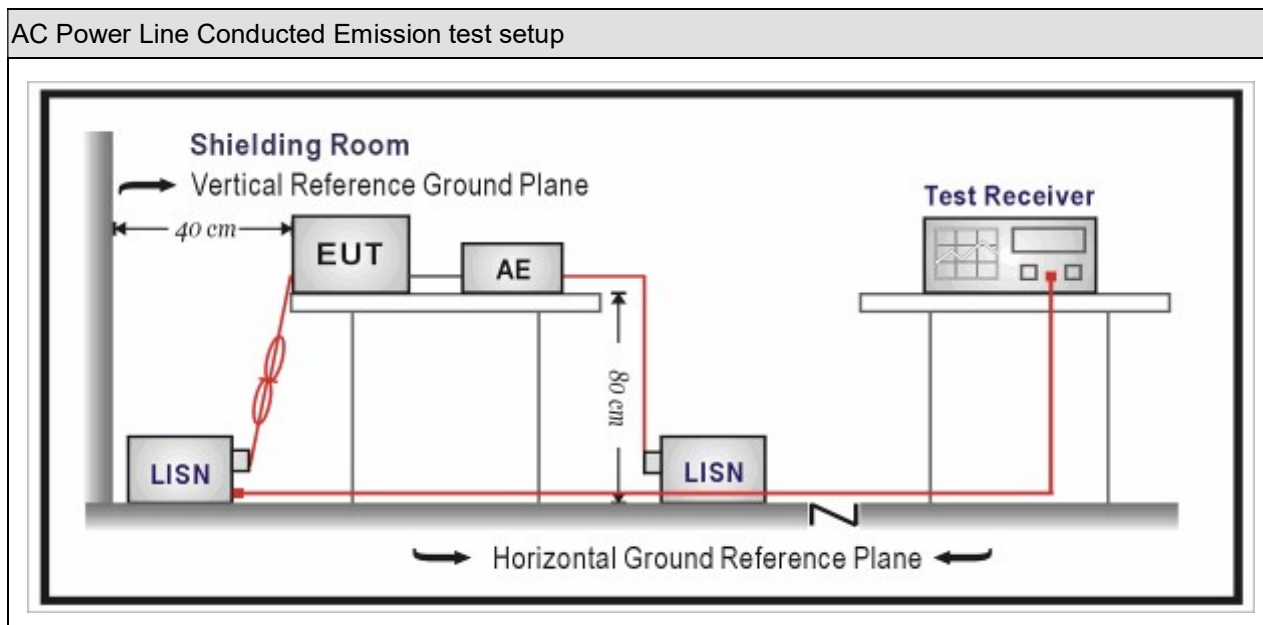
3. Conducted Emission

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	2017.07.16	2018.07.15
Two-Line V-Network	R&S	ENV 216	101044	2017.09.15	2018.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2017.09.15	2018.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2018.01.05	2019.01.04
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A

Note: All equipment 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 (MHz)	Conducted Limit	
	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

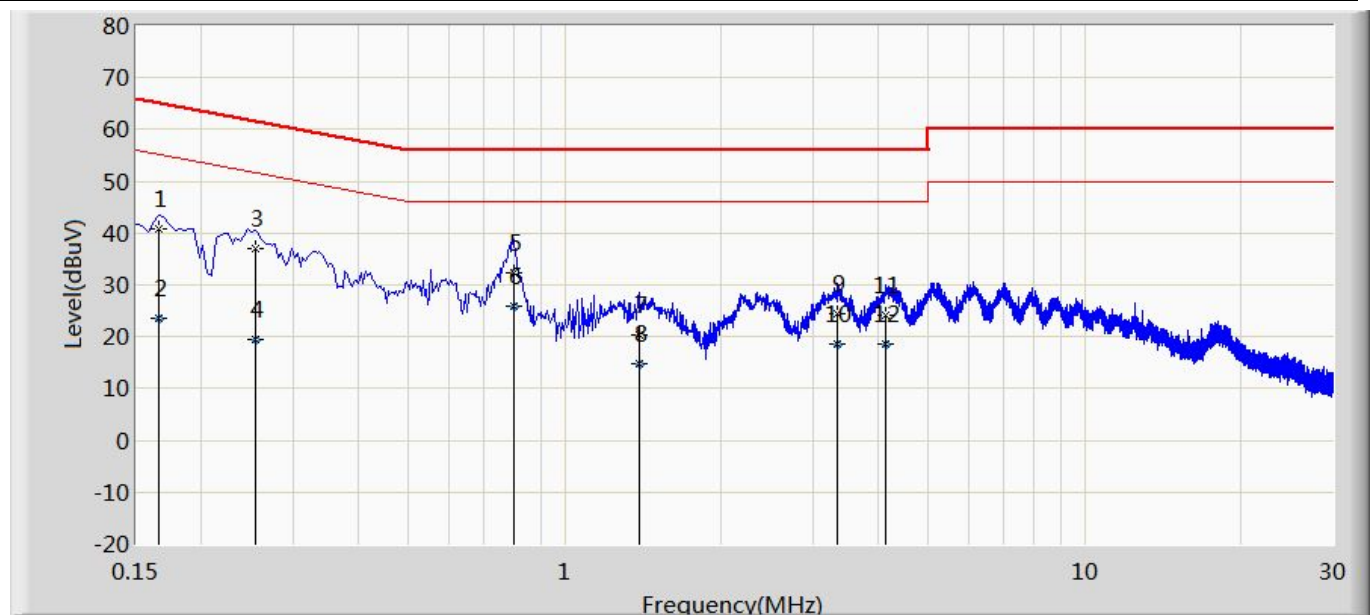
Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

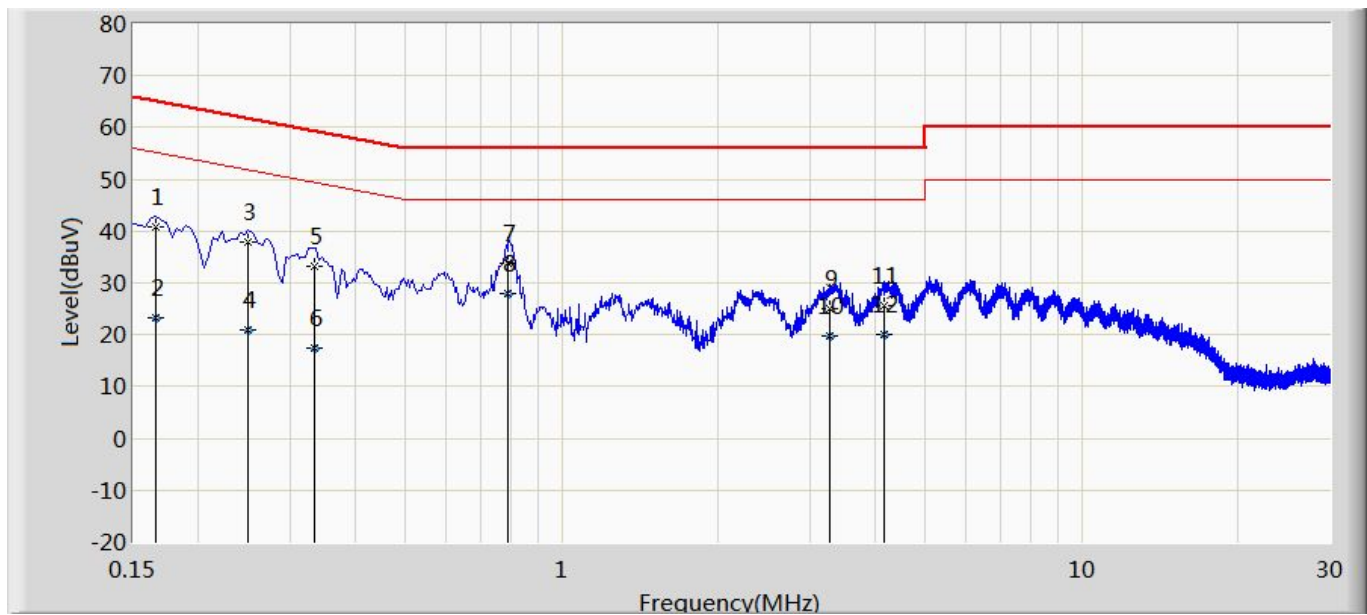
3.6. Test Result

Engineer: CptJack	
Site: TR1	Time: 2018/02/02 - 17:15
Limit: FCC_Part15.207_CE	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.166	40.944	31.324	-24.214	65.158	9.593	0.027	0.000	QP
2		0.166	23.579	13.959	-31.579	55.158	9.593	0.027	0.000	AV
3		0.254	37.162	27.532	-24.464	61.625	9.598	0.031	0.000	QP
4		0.254	19.417	9.788	-32.208	51.625	9.598	0.031	0.000	AV
5		0.798	32.368	22.725	-23.632	56.000	9.590	0.053	0.000	QP
6	*	0.798	25.843	16.200	-20.157	46.000	9.590	0.053	0.000	AV
7		1.390	20.404	10.736	-35.596	56.000	9.598	0.070	0.000	QP
8		1.390	14.867	5.199	-31.133	46.000	9.598	0.070	0.000	AV
9		3.354	24.316	14.573	-31.684	56.000	9.628	0.115	0.000	QP
10		3.354	18.536	8.793	-27.464	46.000	9.628	0.115	0.000	AV
11		4.134	24.206	14.438	-31.794	56.000	9.639	0.130	0.000	QP
12		4.134	18.519	8.751	-27.481	46.000	9.639	0.130	0.000	AV

Engineer: CptJack	
Site: TR1	Time: 2018/02/02 - 17:17
Limit: FCC_Part15.207_CE	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.166	40.878	31.258	-24.280	65.158	9.593	0.027	0.000	QP
2		0.166	23.413	13.793	-31.745	55.158	9.593	0.027	0.000	AV
3		0.250	37.924	28.295	-23.833	61.757	9.598	0.031	0.000	QP
4		0.250	20.937	11.308	-30.821	51.757	9.598	0.031	0.000	AV
5		0.334	33.315	23.685	-26.036	59.351	9.595	0.035	0.000	QP
6		0.334	17.406	7.775	-31.946	49.351	9.595	0.035	0.000	AV
7		0.790	33.819	24.176	-22.181	56.000	9.590	0.052	0.000	QP
8	*	0.790	27.817	18.174	-18.183	46.000	9.590	0.052	0.000	AV
9		3.282	24.923	15.182	-31.077	56.000	9.627	0.114	0.000	QP
10		3.282	19.665	9.924	-26.335	46.000	9.627	0.114	0.000	AV
11		4.162	25.474	15.706	-30.526	56.000	9.639	0.129	0.000	QP
12		4.162	19.988	10.219	-26.012	46.000	9.639	0.129	0.000	AV

4. Emissions in restricted frequency bands

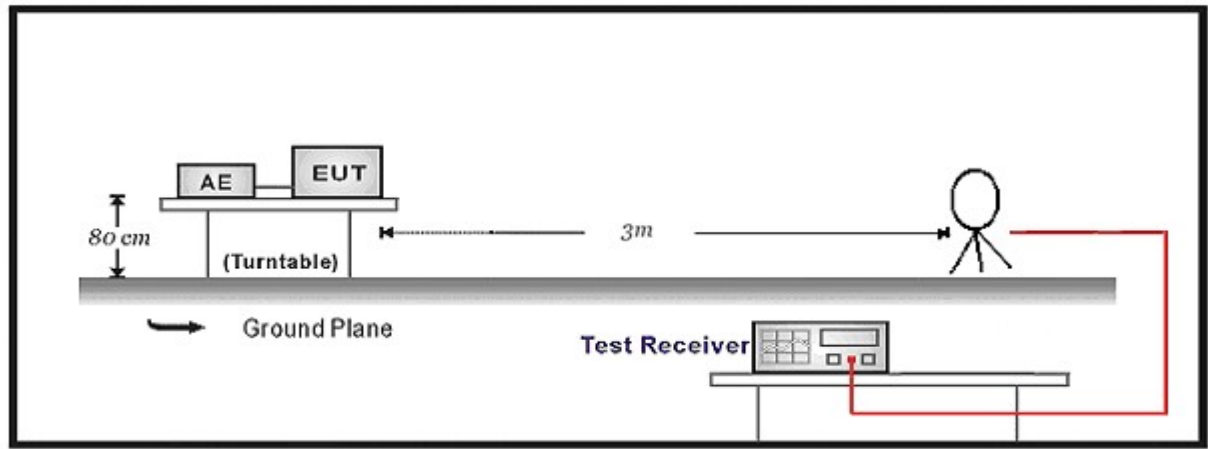
4.1. Test Equipment

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	2017.11.16	2018.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2017.10.16	2018.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2018.01.04	2019.01.03
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

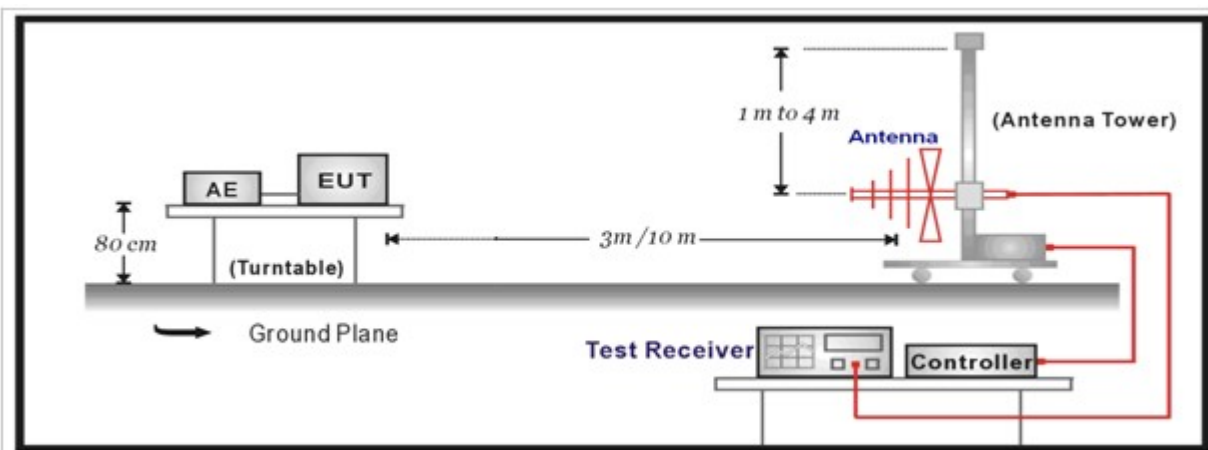
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2018.01.04	2019.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2018.01.22	2019.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2017.11.25	2018.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 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	2018.01.04	2019.01.03
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

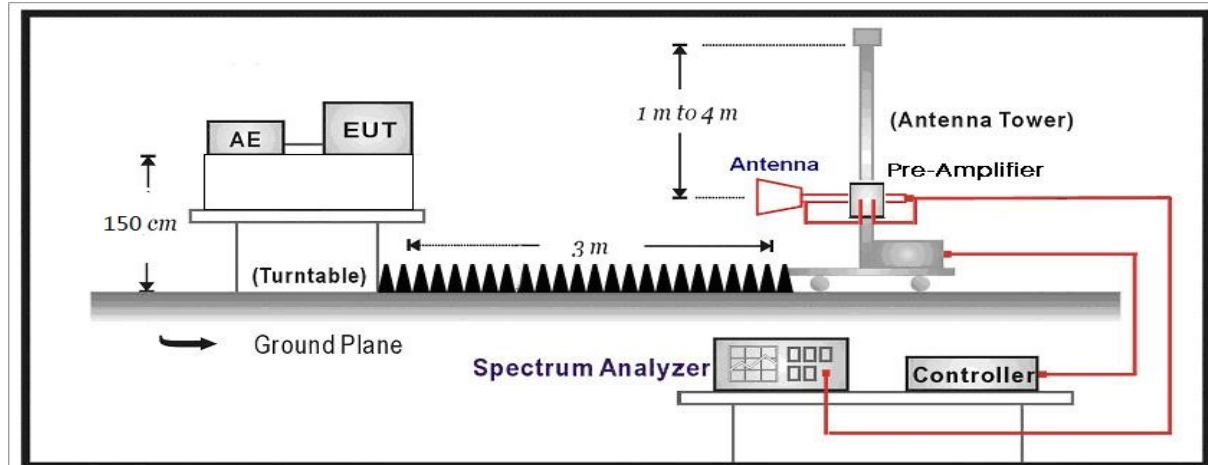
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz 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			

For ISED:

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	

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/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

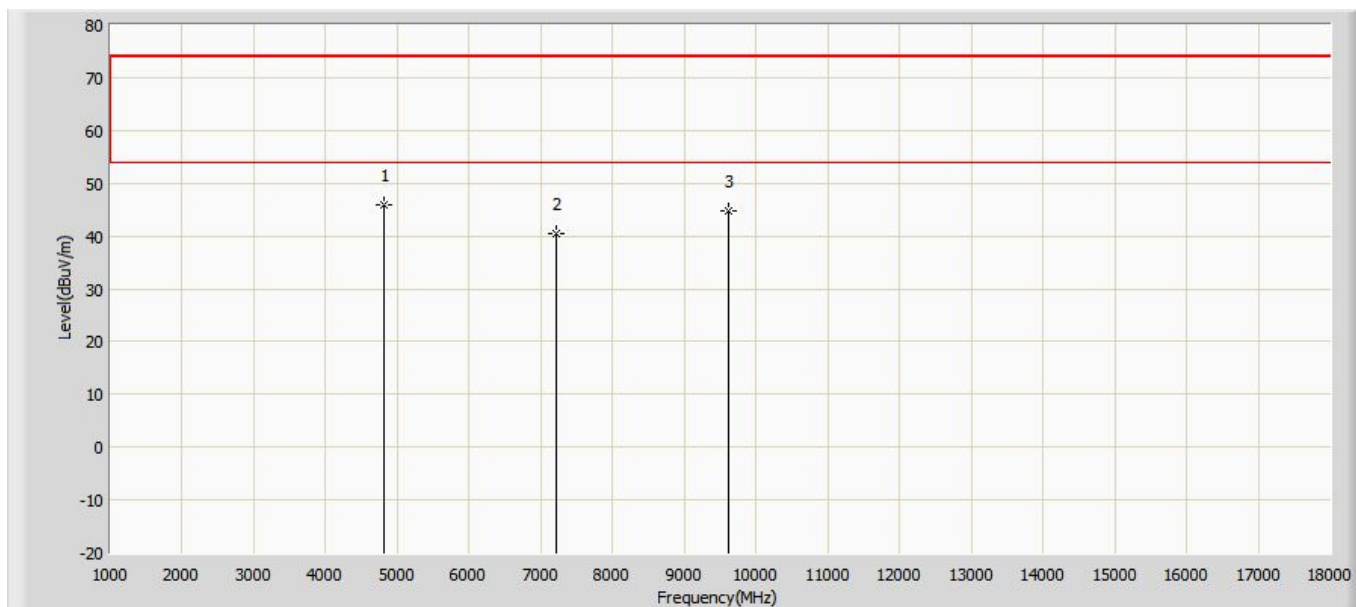
Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed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

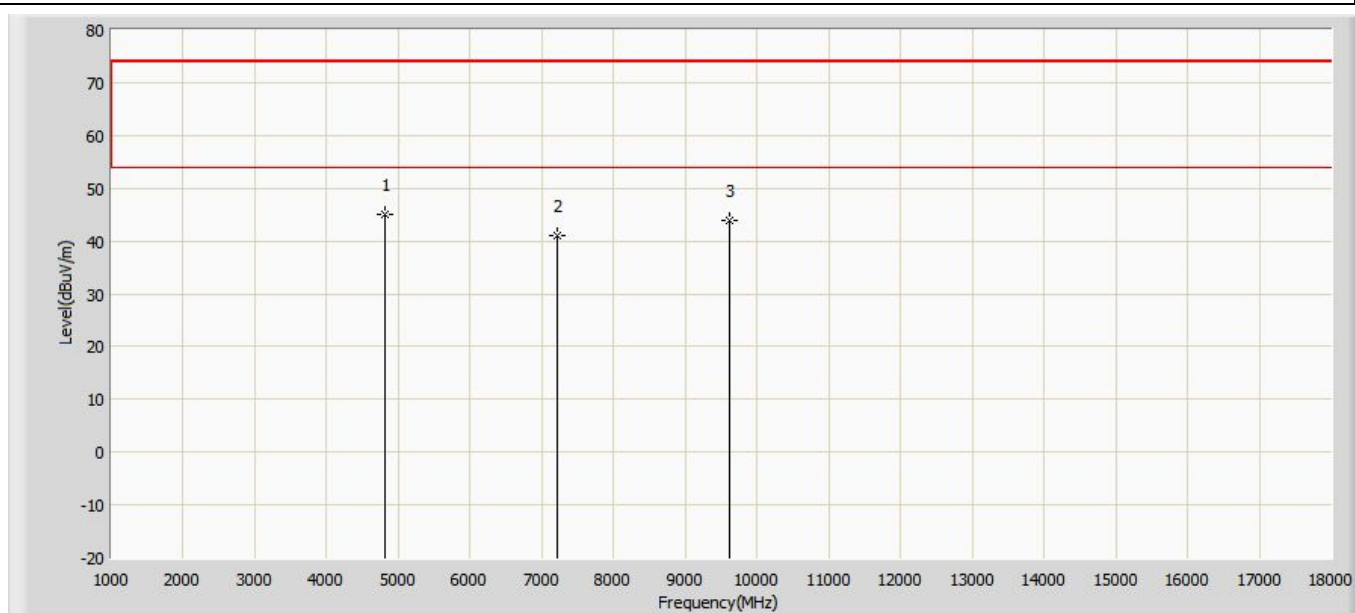
4.6. Test Result

Site: AC5	Time: 2018/02/05 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by DH5	



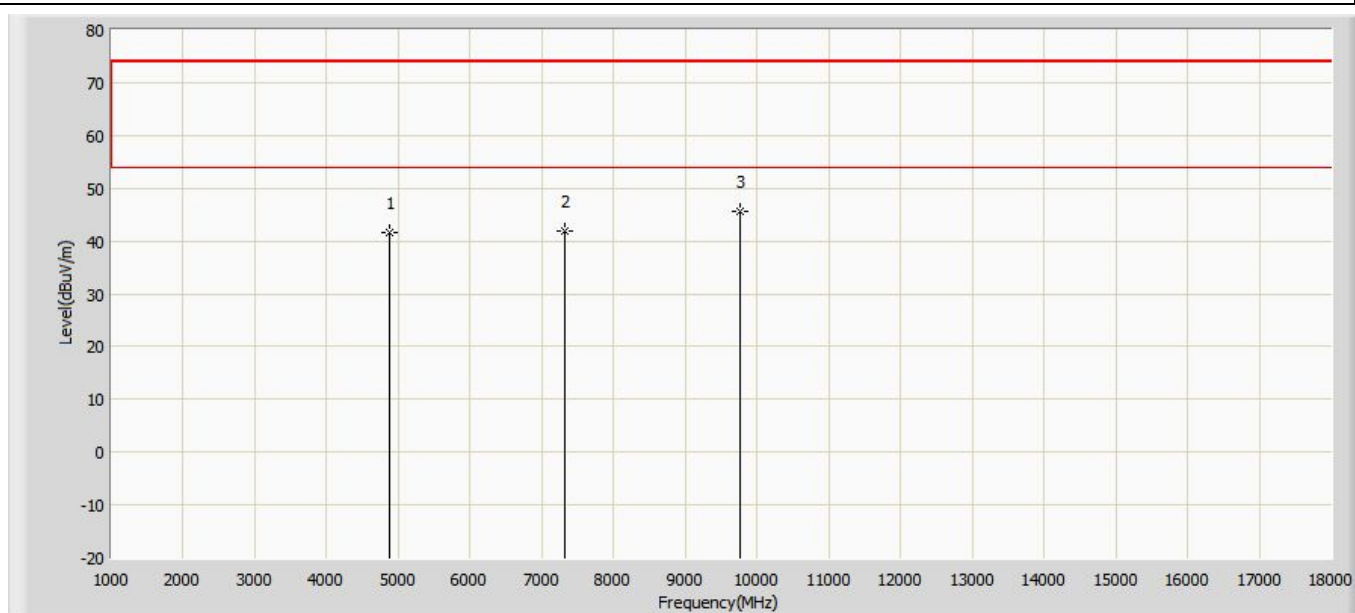
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	45.963	51.531	-28.037	74.000	-5.568	PK
2		7206.000	40.380	40.668	-33.620	74.000	-0.288	PK
3		9608.000	44.700	40.569	-29.300	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by DH5	



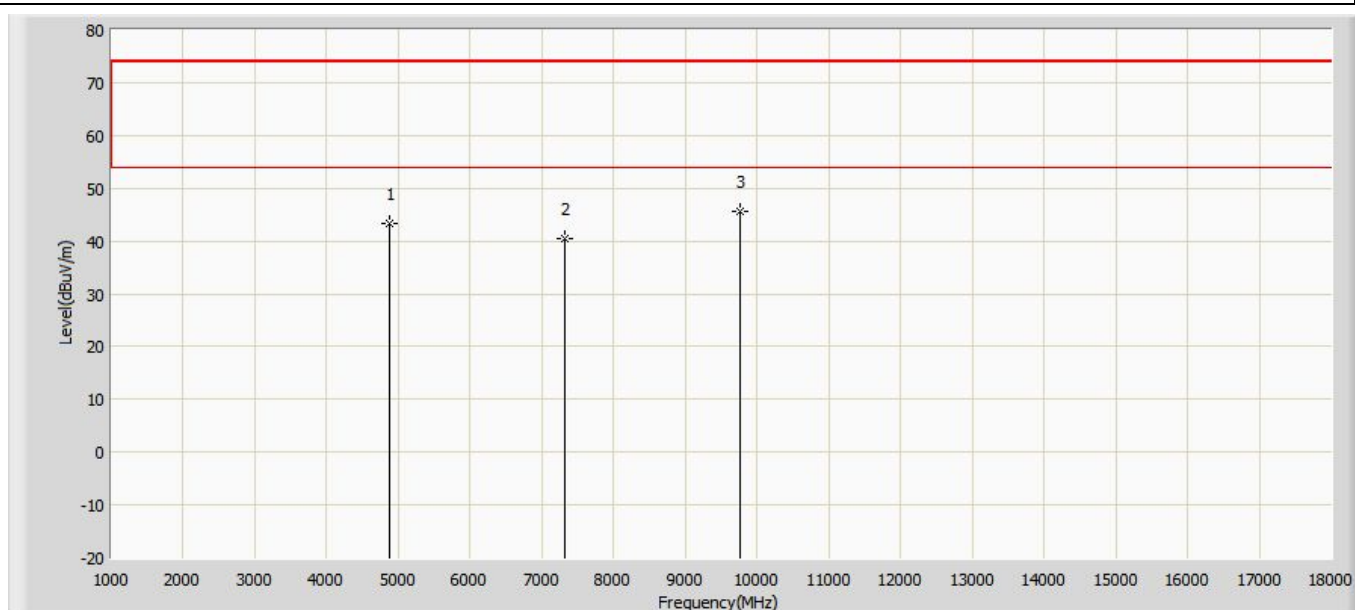
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	45.117	50.685	-28.883	74.000	-5.568	PK
2		7206.000	41.008	41.296	-32.992	74.000	-0.288	PK
3		9608.000	43.997	39.866	-30.003	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441MHz by DH5	



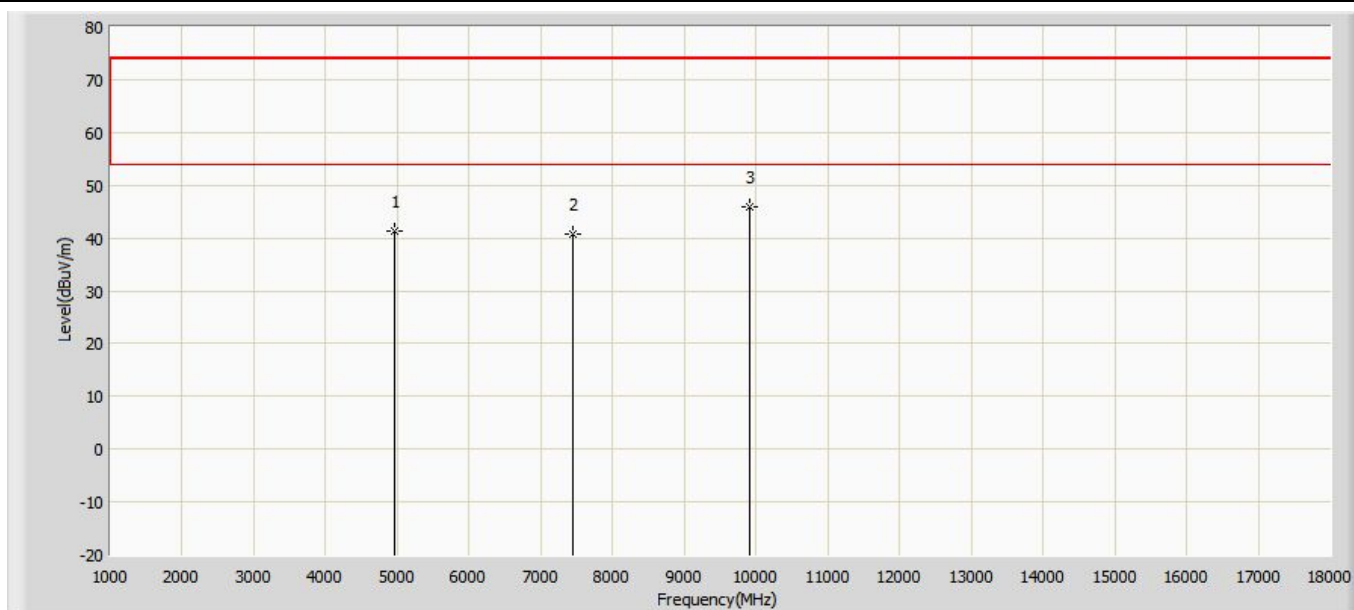
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4884.500	41.627	47.200	-32.373	74.000	-5.573	PK
2		7323.000	41.861	42.136	-32.139	74.000	-0.275	PK
3	*	9764.000	45.596	41.292	-28.404	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2441MHz by DH5	



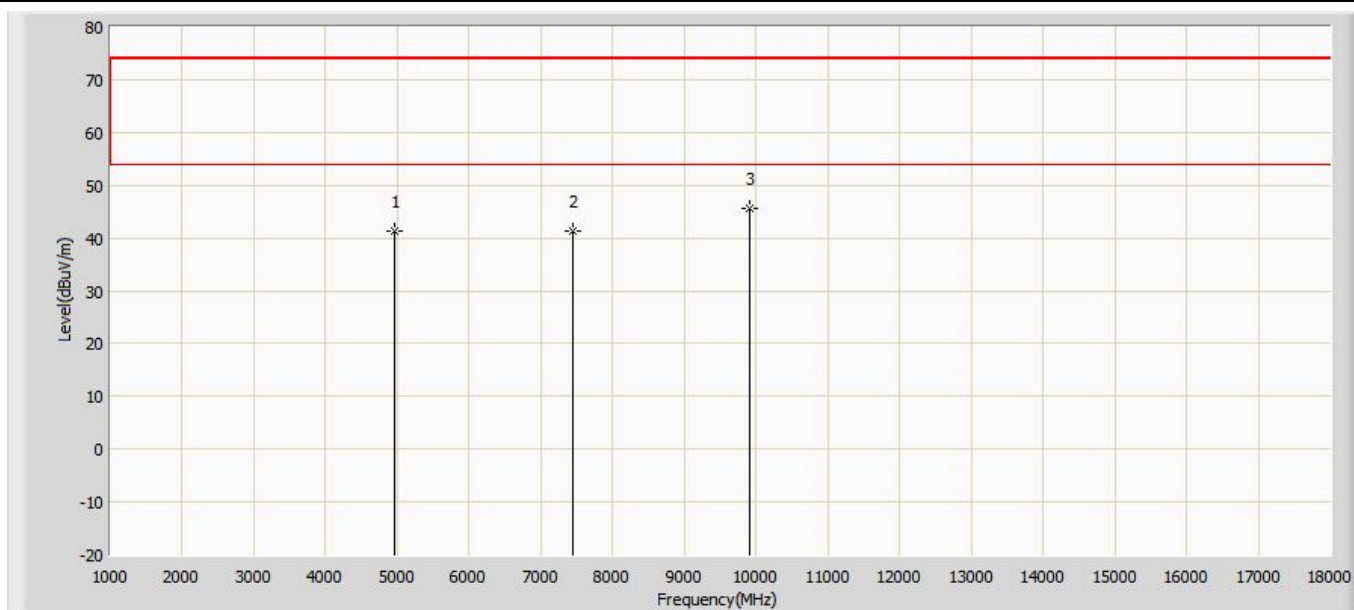
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4884.500	43.336	48.909	-30.664	74.000	-5.573	PK
2		7323.000	40.413	40.688	-33.587	74.000	-0.275	PK
3	*	9764.000	45.659	41.355	-28.341	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by DH5	



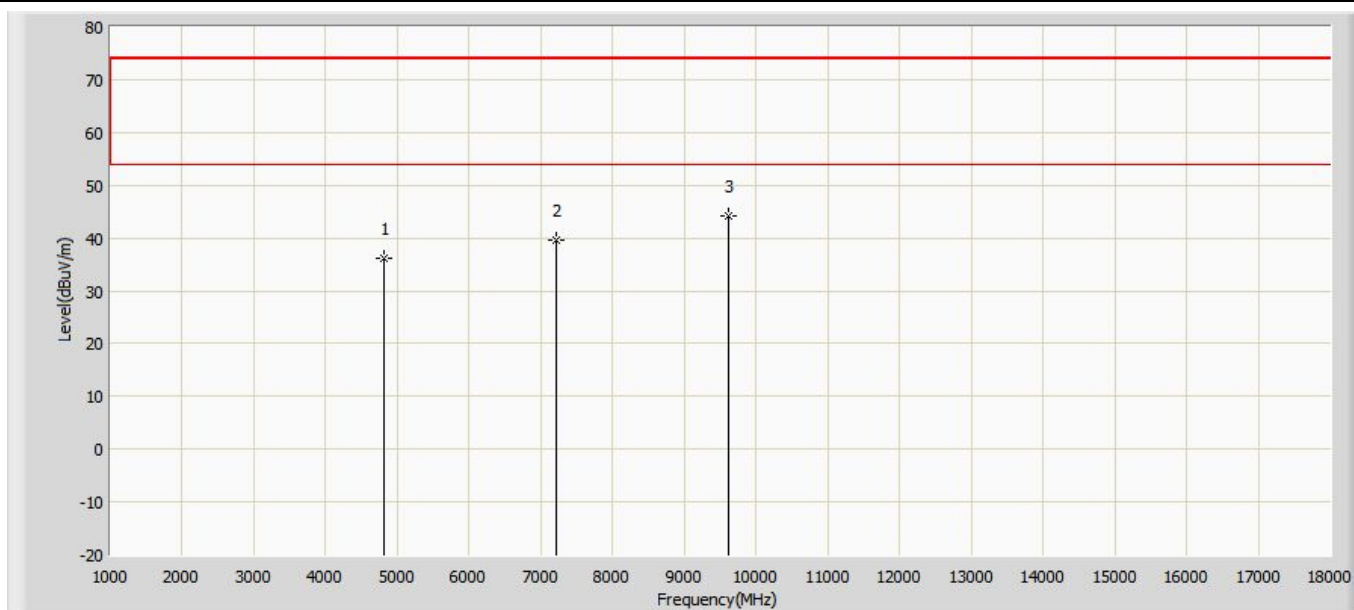
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	41.249	46.476	-32.751	74.000	-5.227	PK
2		7440.000	40.700	40.879	-33.300	74.000	-0.179	PK
3	*	9920.000	45.828	40.882	-28.172	74.000	4.946	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by DH5	



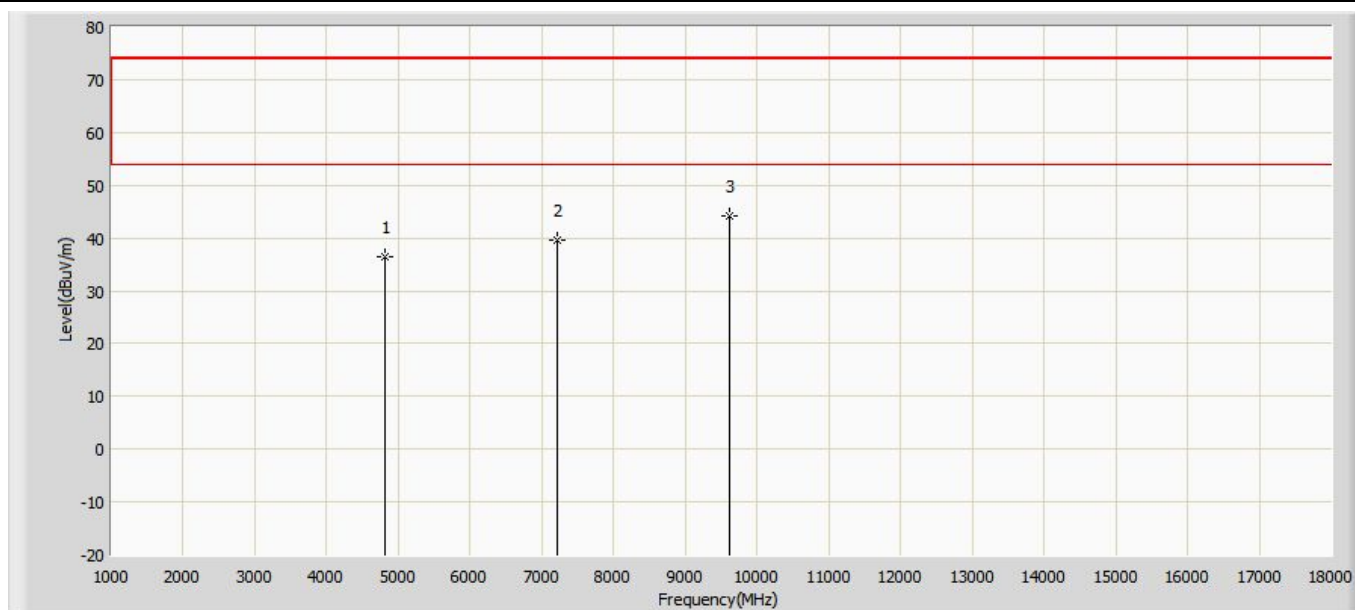
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	41.448	46.675	-32.552	74.000	-5.227	PK
2		7440.000	41.440	41.619	-32.560	74.000	-0.179	PK
3	*	9920.000	45.502	40.556	-28.498	74.000	4.946	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by 2DH5	



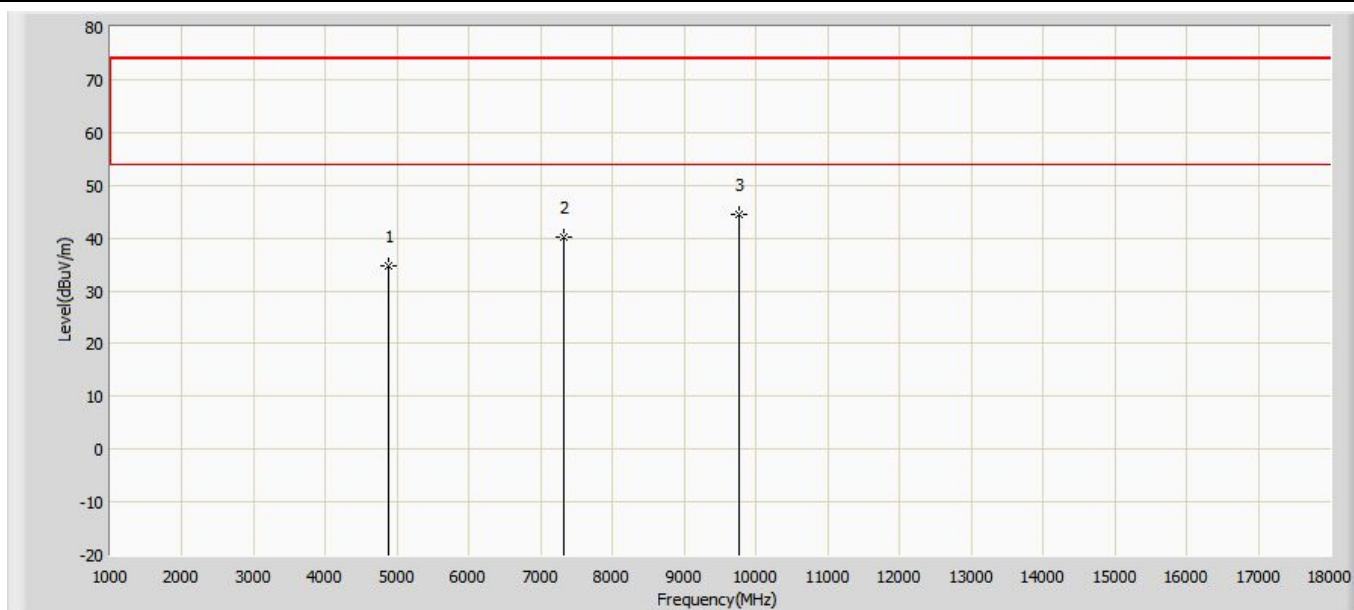
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.089	41.700	-37.911	74.000	-5.611	PK
2		7206.000	39.568	39.856	-34.432	74.000	-0.288	PK
3	*	9608.000	44.238	40.107	-29.762	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by 2DH5	



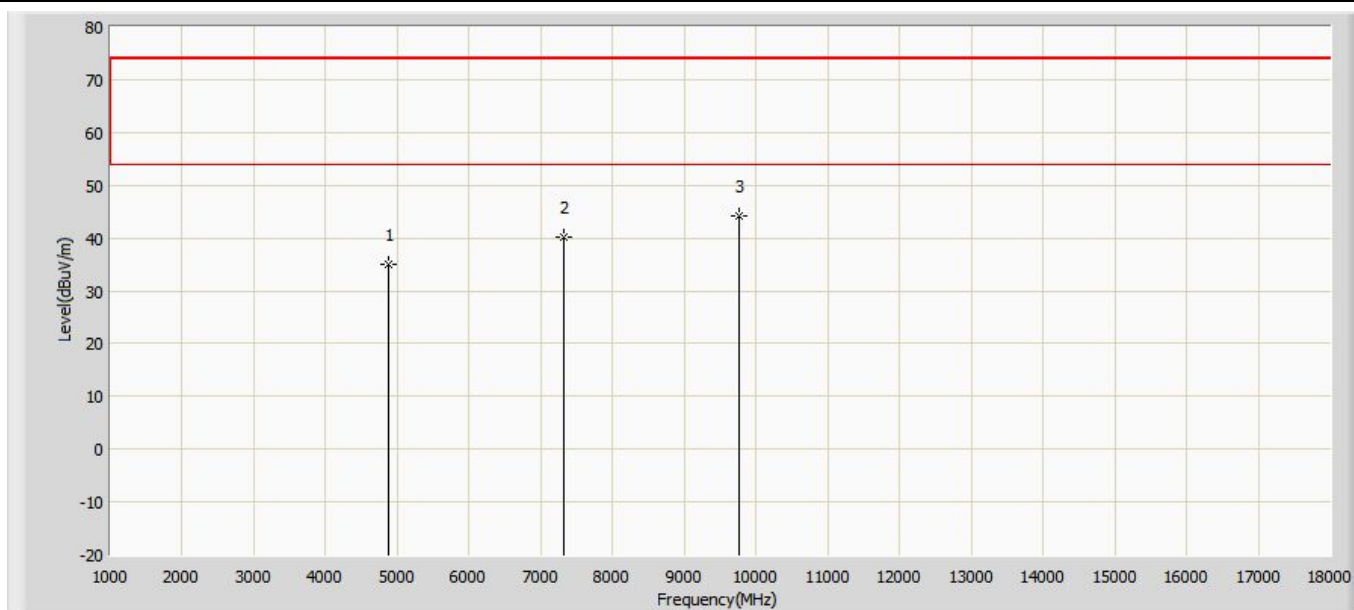
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.396	42.007	-37.604	74.000	-5.611	PK
2		7206.000	39.705	39.993	-34.295	74.000	-0.288	PK
3	*	9608.000	44.266	40.135	-29.734	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2441MHz by 2DH5	



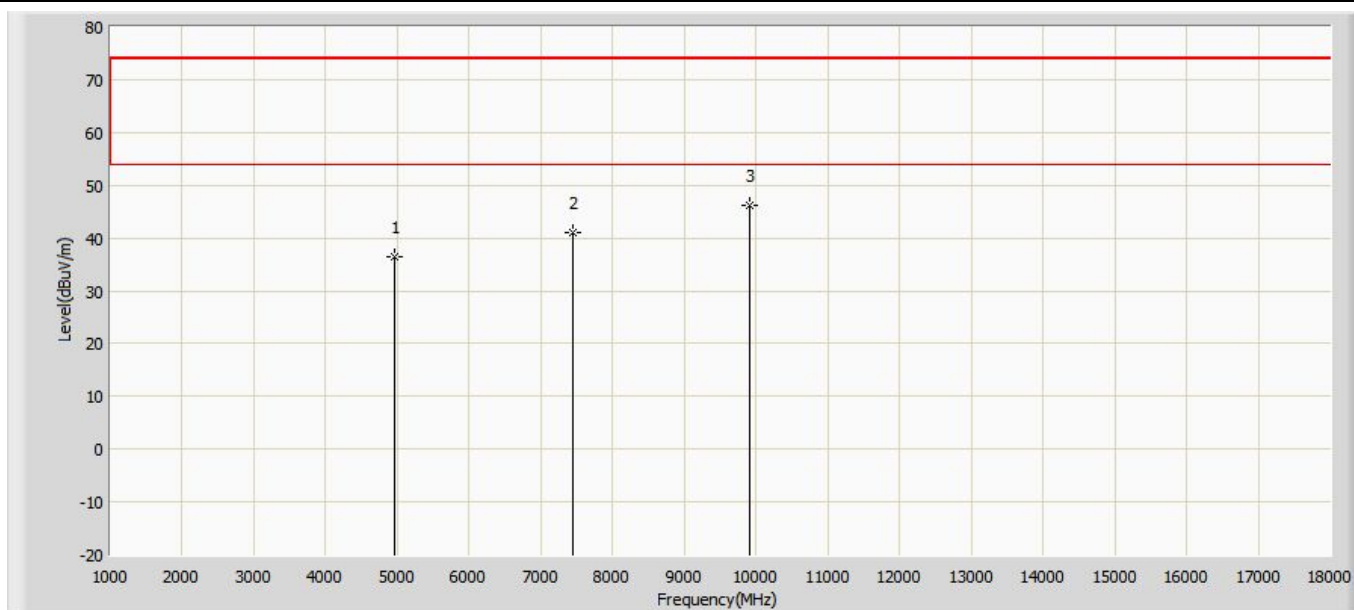
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	34.802	40.359	-39.198	74.000	-5.557	PK
2		7323.000	40.274	40.549	-33.726	74.000	-0.275	PK
3	*	9764.000	44.395	40.091	-29.605	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2441MHz by 2DH5	



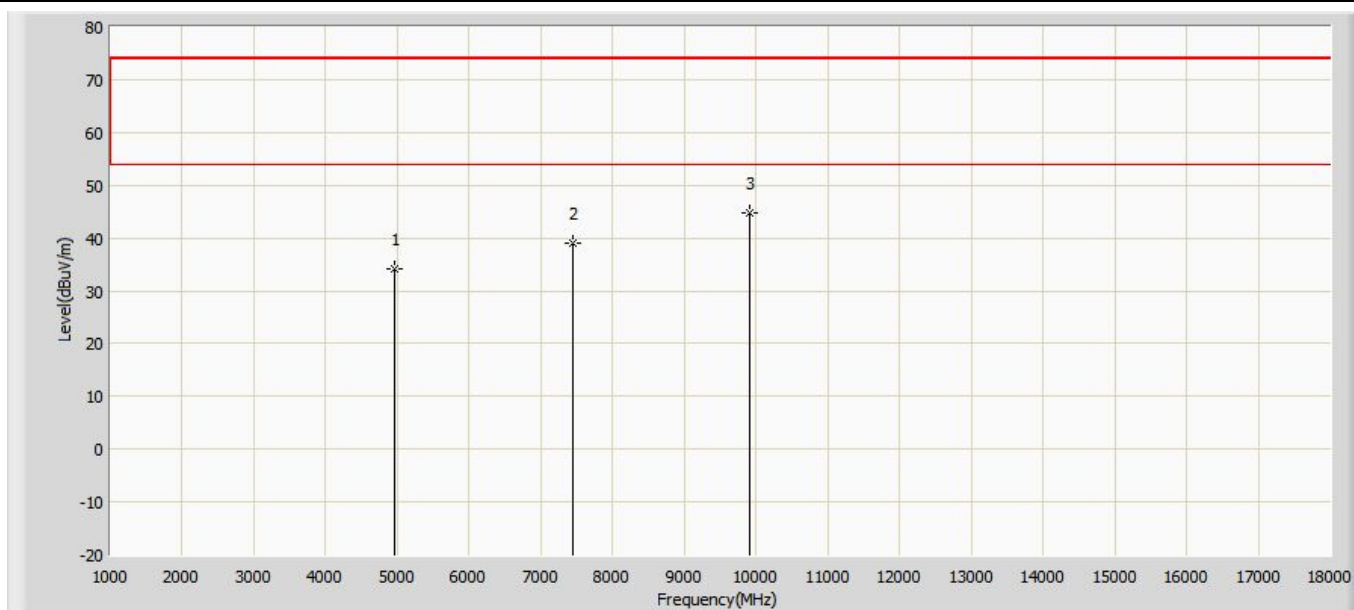
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	35.139	40.696	-38.861	74.000	-5.557	PK
2		7323.000	40.288	40.563	-33.712	74.000	-0.275	PK
3	*	9764.000	44.241	39.937	-29.759	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by 2DH5	



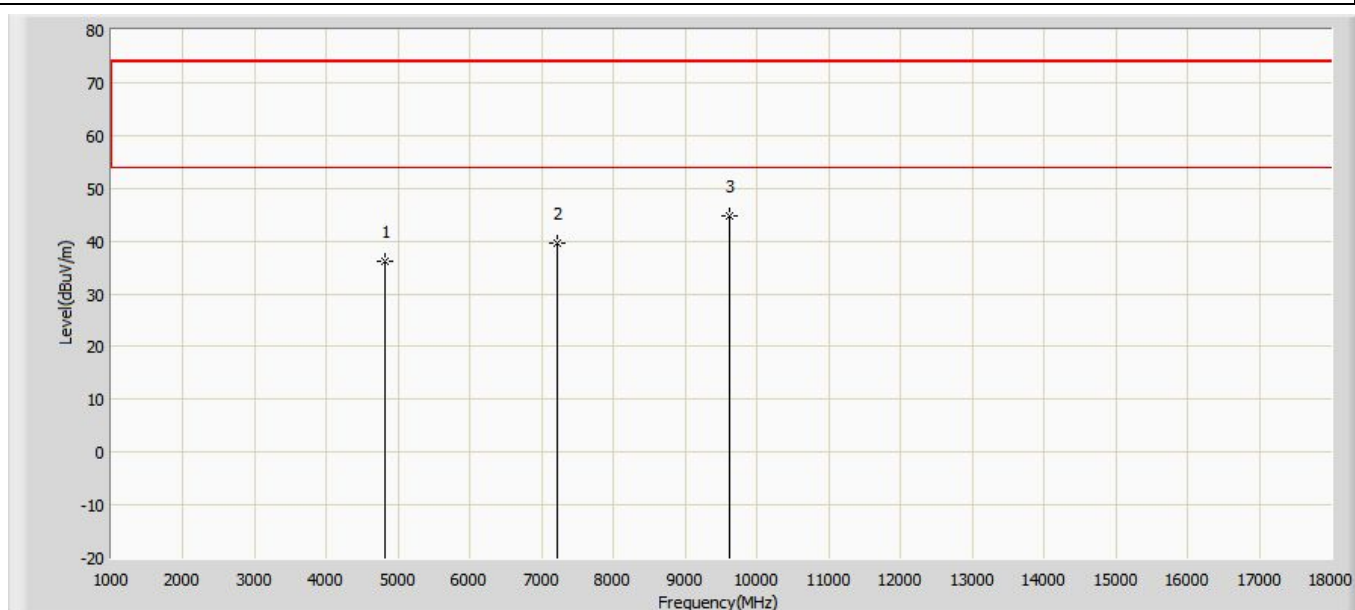
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.371	41.603	-37.629	74.000	-5.232	PK
2		7440.000	41.160	41.339	-32.840	74.000	-0.179	PK
3	*	9920.000	46.088	41.142	-27.912	74.000	4.946	PK

Site: AC5	Time: 2018/02/05 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by 2DH5	



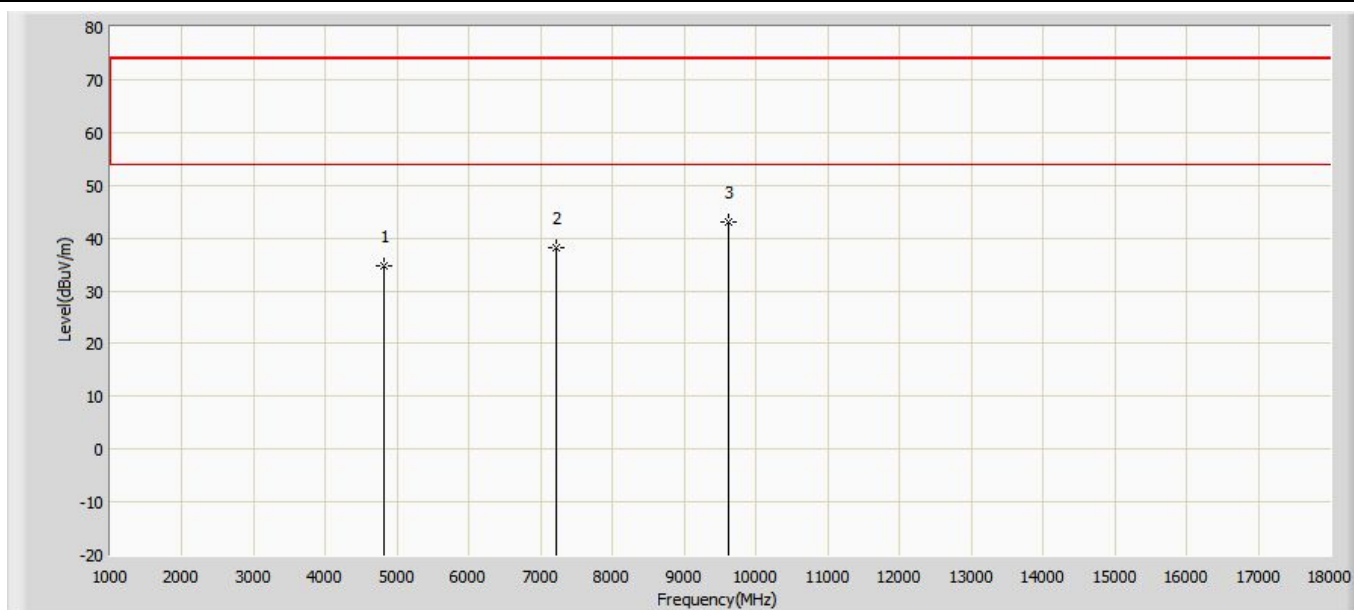
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	34.080	39.312	-39.920	74.000	-5.232	PK
2		7440.000	39.151	39.330	-34.849	74.000	-0.179	PK
3	*	9920.000	44.790	39.844	-29.210	74.000	4.946	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by 3DH5	



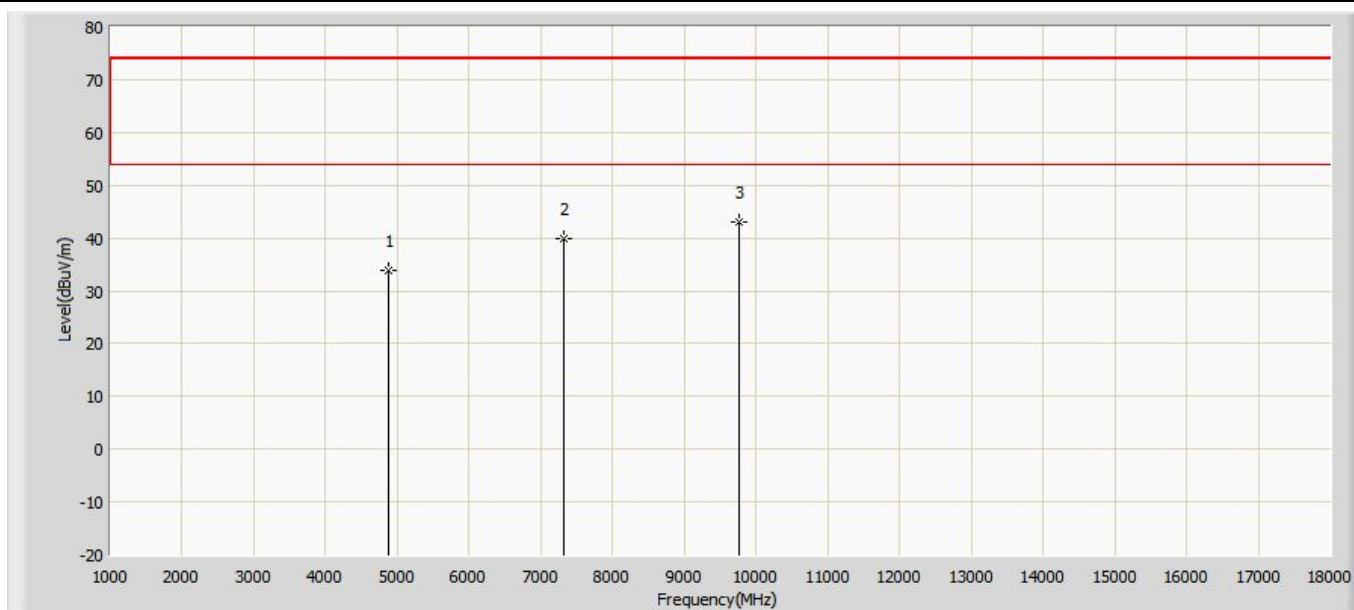
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.243	41.854	-37.757	74.000	-5.611	PK
2		7206.000	39.677	39.965	-34.323	74.000	-0.288	PK
3	*	9608.000	44.869	40.738	-29.131	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by 3DH5	



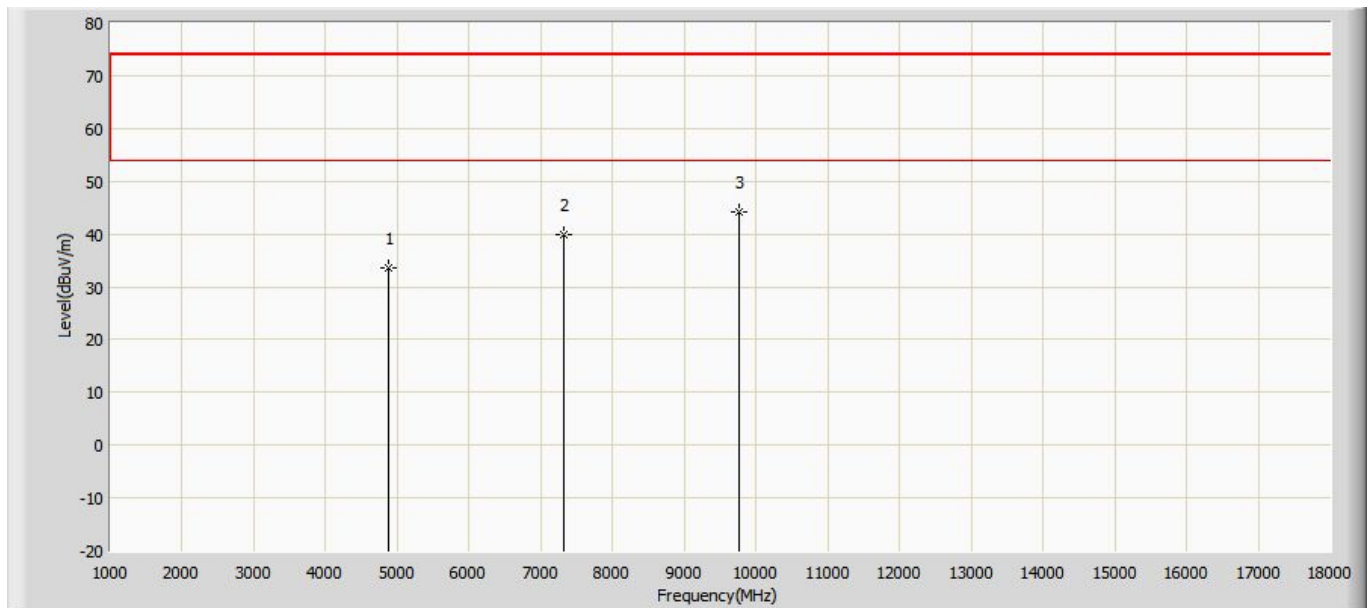
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	34.725	40.336	-39.275	74.000	-5.611	PK
2		7206.000	38.146	38.434	-35.854	74.000	-0.288	PK
3	*	9608.000	43.126	38.995	-30.874	74.000	4.131	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2441MHz by 3DH5	



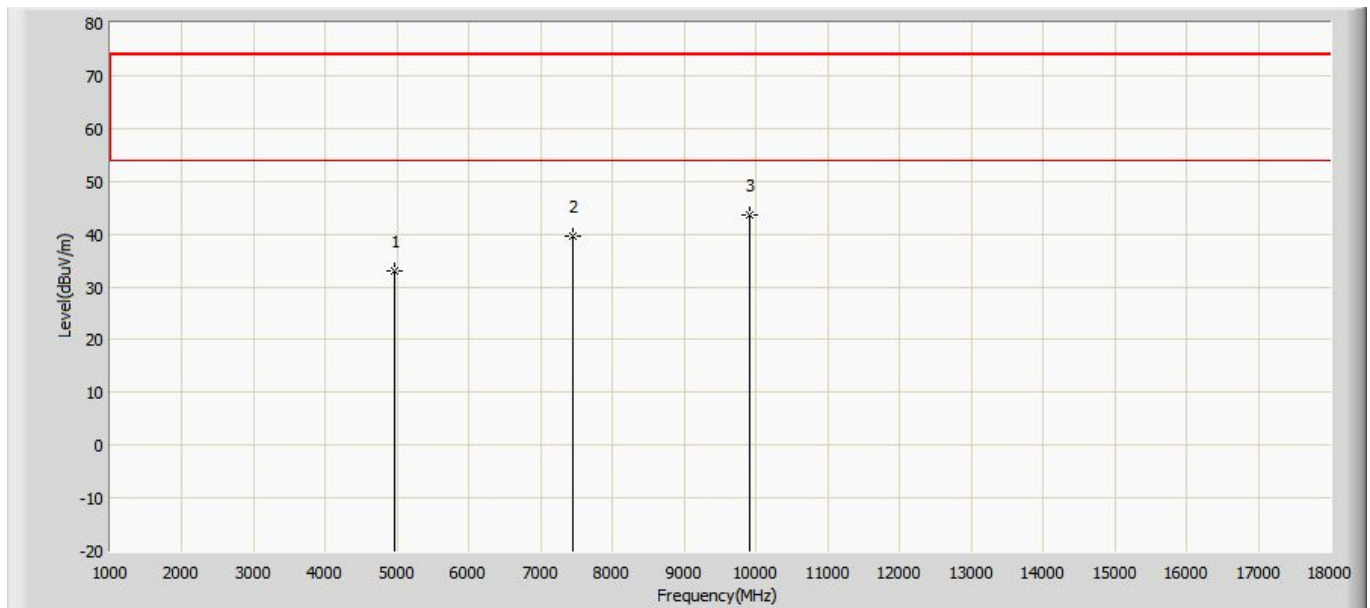
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	33.985	39.542	-40.015	74.000	-5.557	PK
2		7323.000	39.877	40.152	-34.123	74.000	-0.275	PK
3	*	9764.000	42.911	38.607	-31.089	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2441MHz by 3DH5	



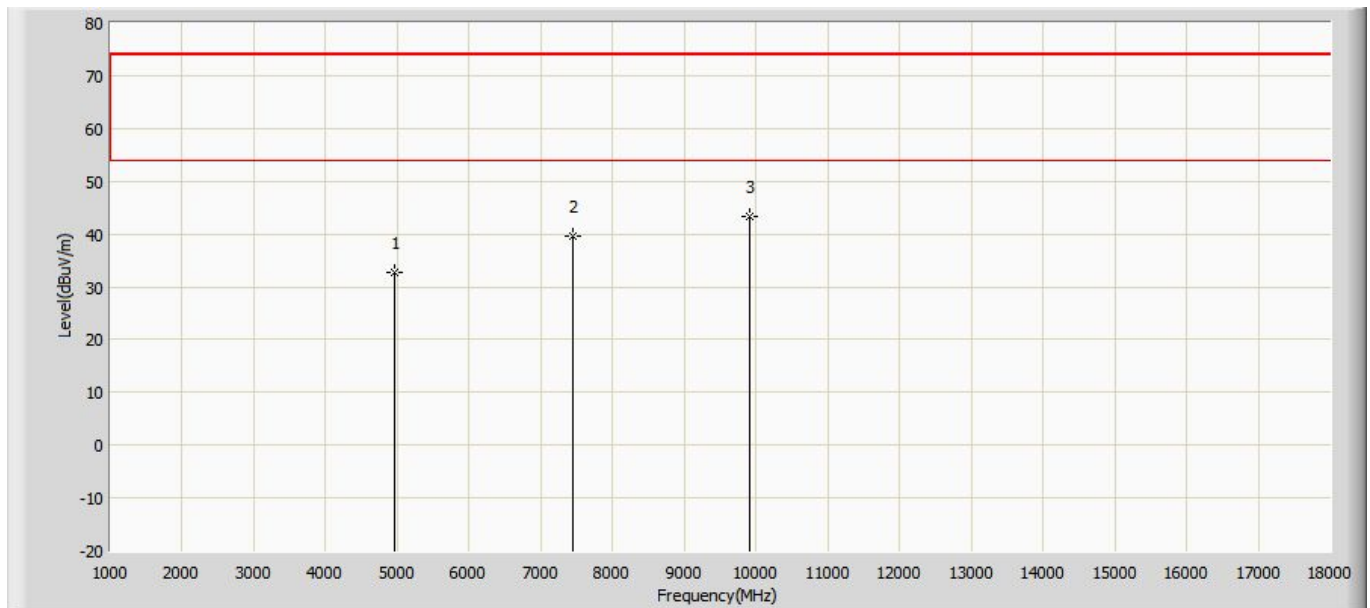
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	33.563	39.120	-40.437	74.000	-5.557	PK
2		7323.000	39.791	40.066	-34.209	74.000	-0.275	PK
3	*	9764.000	44.048	39.744	-29.952	74.000	4.304	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	33.020	38.252	-40.980	74.000	-5.232	PK
2		7440.000	39.477	39.656	-34.523	74.000	-0.179	PK
3	*	9920.000	43.529	38.583	-30.471	74.000	4.946	PK

Site: AC5	Time: 2018/02/05 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by 3DH5	



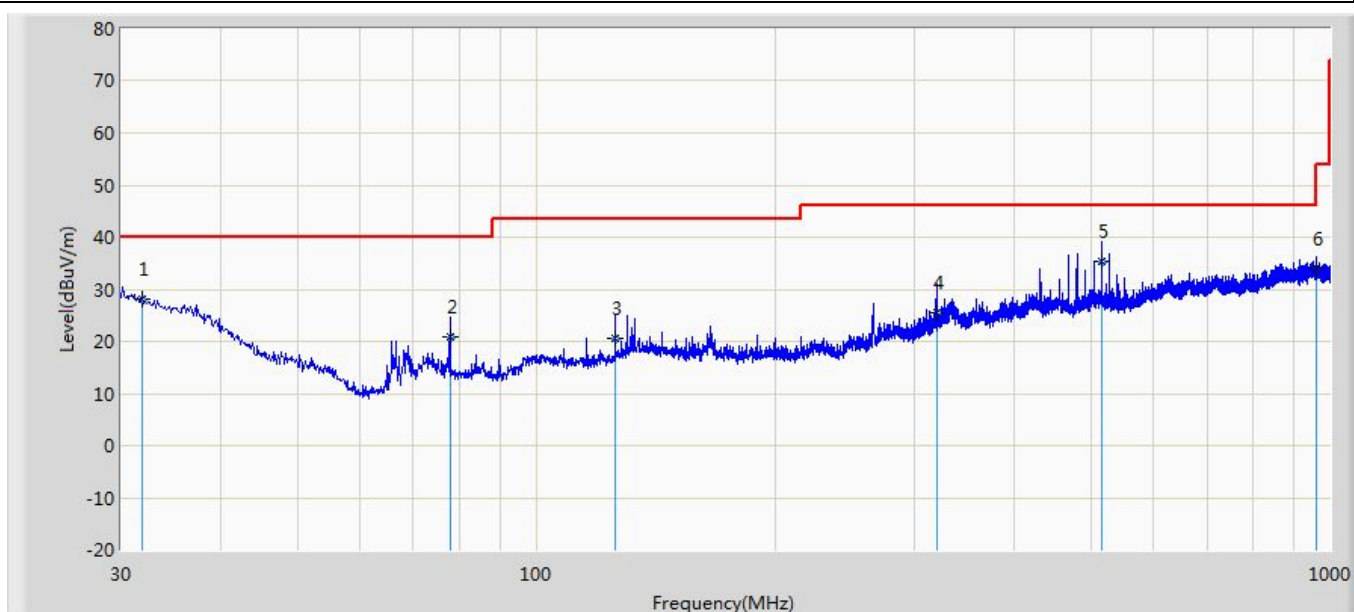
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	32.622	37.854	-41.378	74.000	-5.232	PK
2		7440.000	39.697	39.876	-34.303	74.000	-0.179	PK
3	*	9920.000	43.321	38.375	-30.679	74.000	4.946	PK

Radiated Emission above 18GHz:

Note: The peak value of Radiated Emission above 18GHz is negligible, so this test item is not shown in the report.

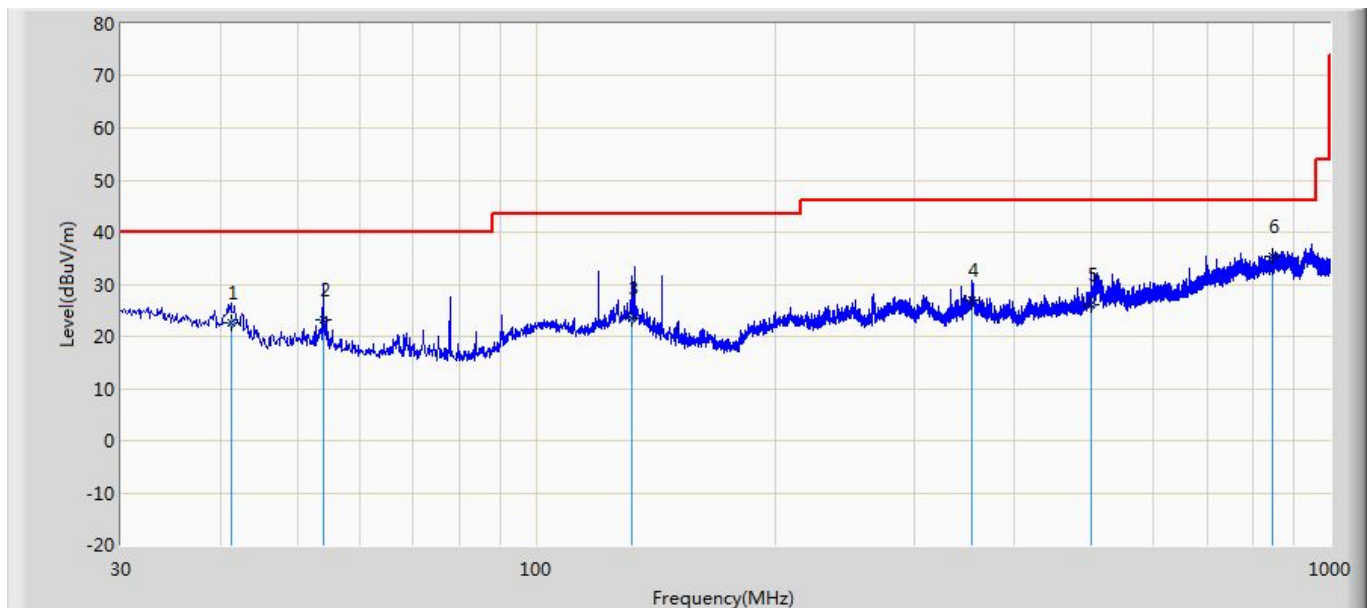
The worst case of Radiated Emission below 1GHz:

Engineer: Lucas	
Site: AC3	Time: 2018/02/05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.887	28.052	1.200	-11.948	40.000	20.388	6.464	0.000	100	205	QP
2		77.894	20.857	8.400	-19.143	40.000	5.710	6.747	0.000	100	347	QP
3		125.954	20.467	3.900	-23.033	43.500	9.593	6.973	0.000	100	228	QP
4		319.784	25.534	4.200	-20.466	46.000	13.658	7.676	0.000	100	25	QP
5	*	515.945	35.226	8.400	-10.774	46.000	18.622	8.204	0.000	100	29	QP
6		960.558	33.905	1.200	-20.095	54.000	23.482	9.223	0.000	100	258	QP

Engineer: Lucas	
Site: AC3	Time: 2018/02/05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: EZ-BT WICED Module	Power: AC 120V/60Hz
Note: Mode 1	



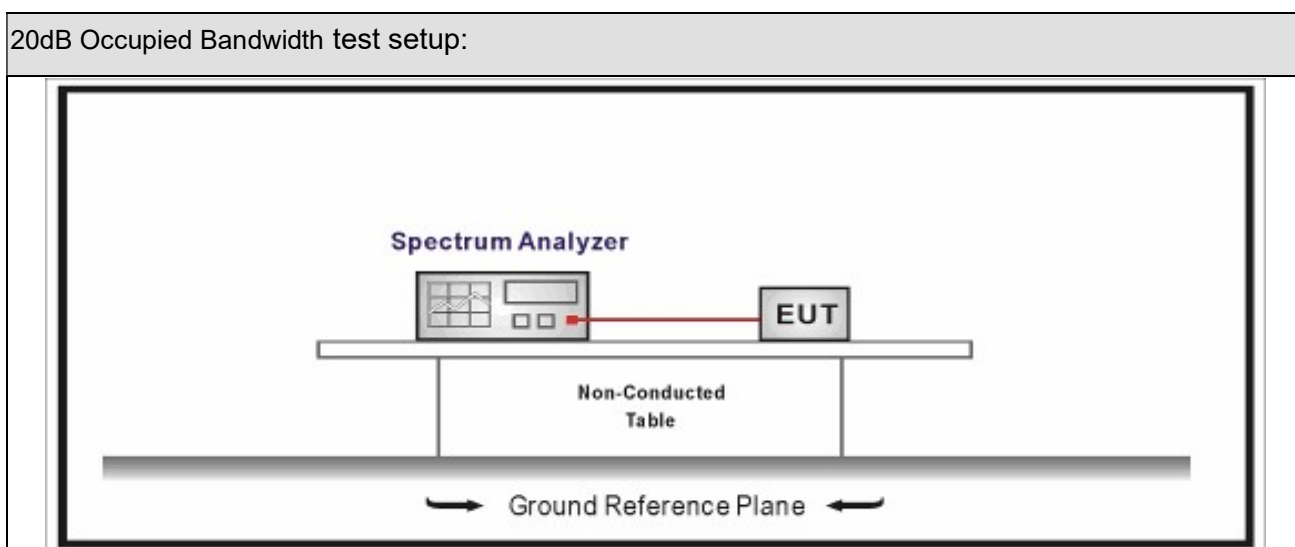
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		41.265	22.510	4.600	-17.490	40.000	11.377	6.534	0.000	100	26	QP
2		53.859	23.127	5.900	-16.873	40.000	10.611	6.617	0.000	100	256	QP
3		132.256	23.362	2.500	-20.138	43.500	13.861	7.002	0.000	100	147	QP
4		354.245	26.947	2.100	-19.053	46.000	17.067	7.780	0.000	100	45	QP
5		501.055	26.131	1.200	-19.869	46.000	16.767	8.164	0.000	100	48	QP
6	*	845.054	35.244	2.600	-10.756	46.000	23.662	8.981	0.000	100	224	QP

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 Analyzer	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 equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2 Test Setup



5.3 Limit

Carrier Frequency Separation	
☒	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 Method			
	References Rule	Chapter	Description
☒	DA 00-705	N/A	20 dB Bandwidth

5.5 Uncertainty

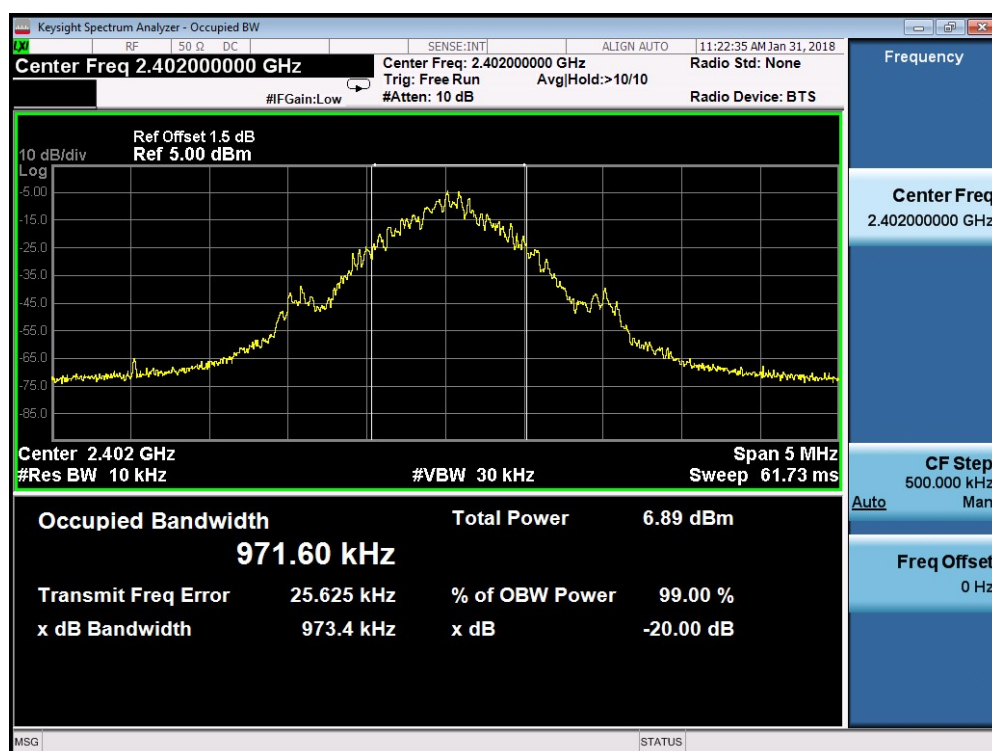
The measurement uncertainty is defined as ± 1 kHz

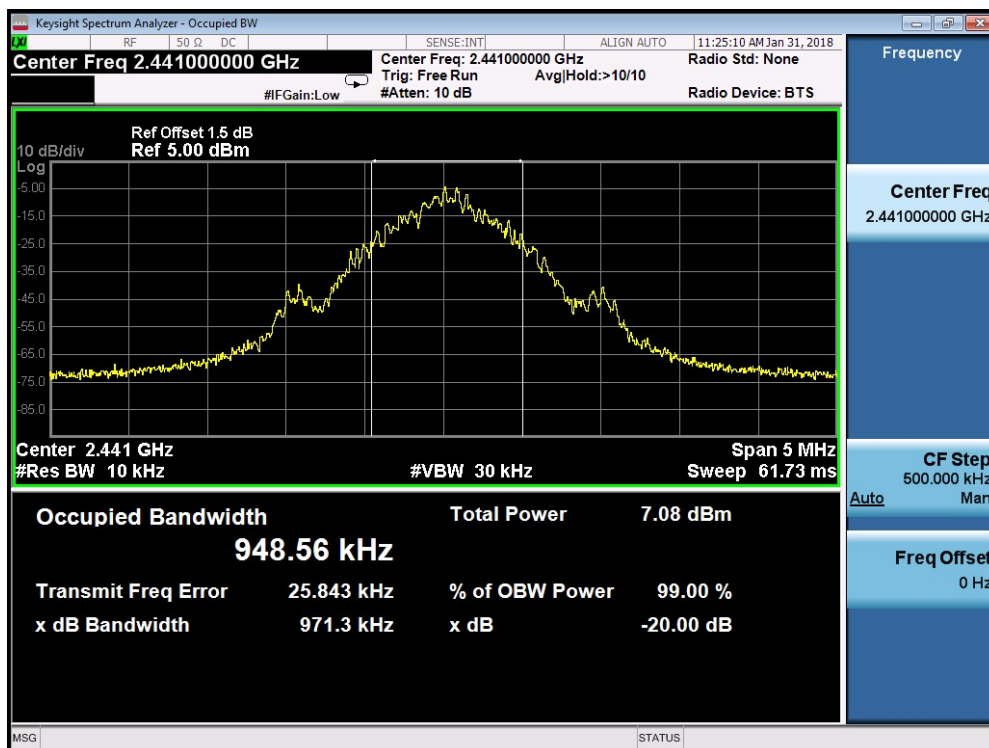
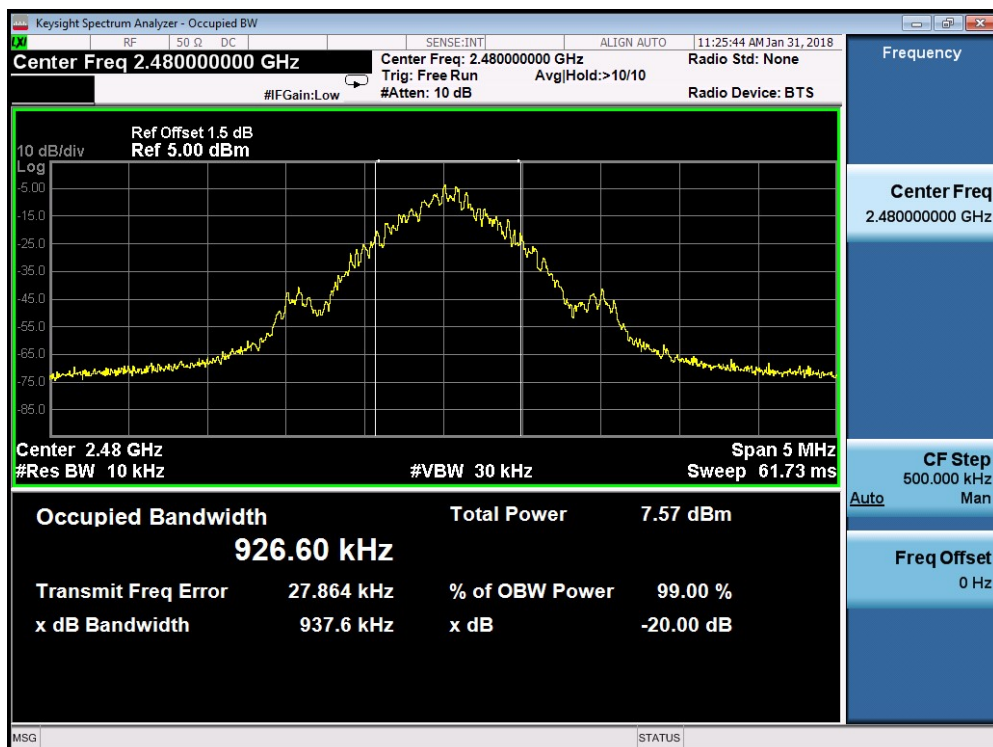
5.6 Test Result

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: TR-8
Test Date	: 2018.01.31	Test Engineer	: Slark

Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
00	2402	973.4	971.60
39	2441	971.3	948.56
78	2480	937.6	926.60

Channel 00 (2402MHz)

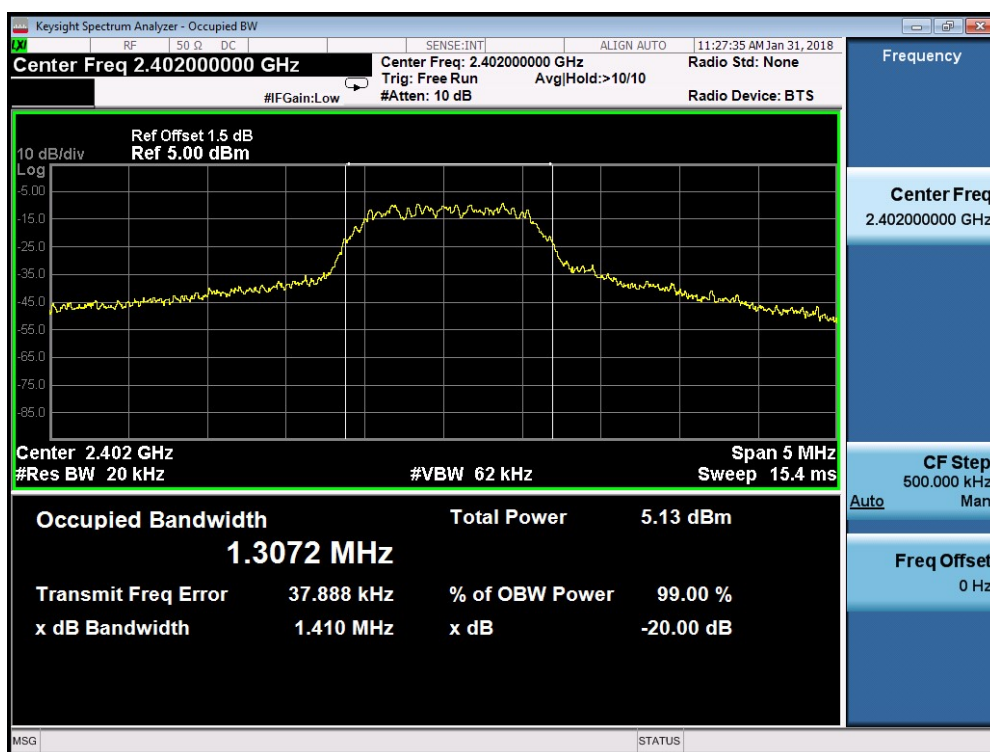


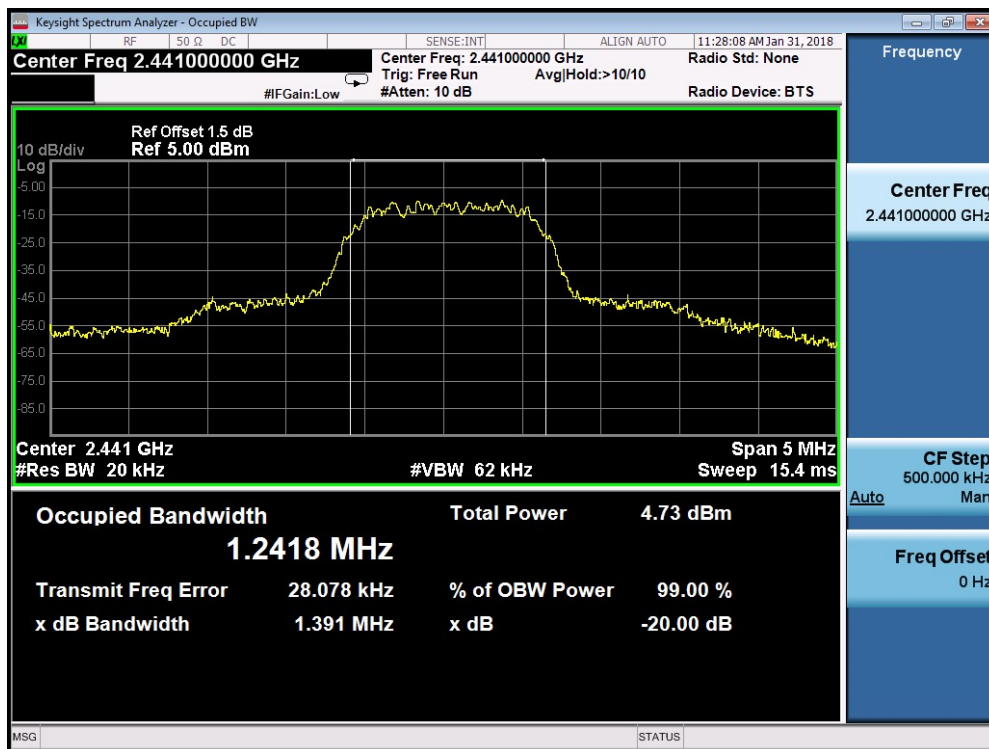
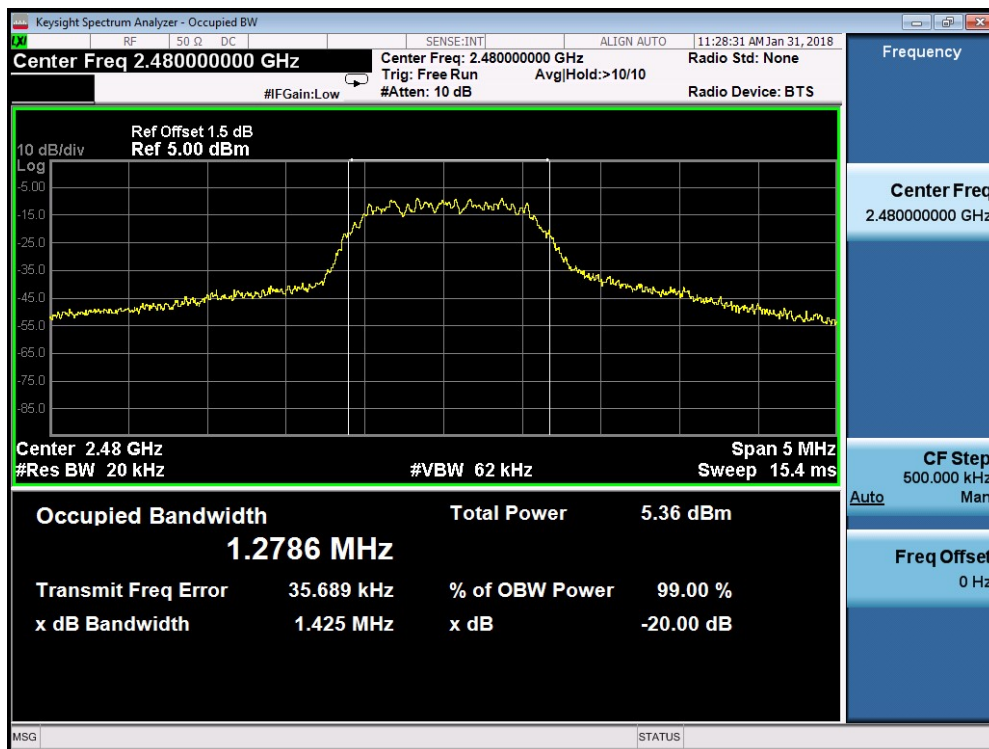
Channel 39 (2441MHz)**Channel 78 (2480MHz)**

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 2	Test Site	: TR-8
Test Date	: 2018.01.31	Test Engineer	: Scott

Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
00	2402	1410	1307.2
39	2441	1391	1241.8
78	2480	1425	1278.6

Channel 00 (2402MHz)

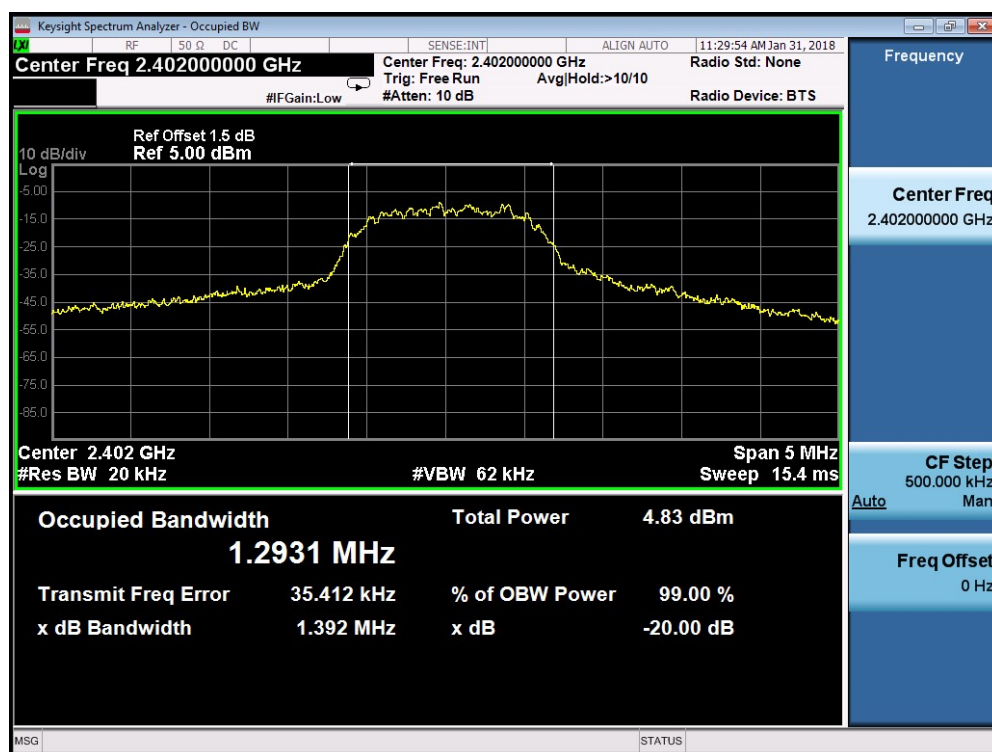


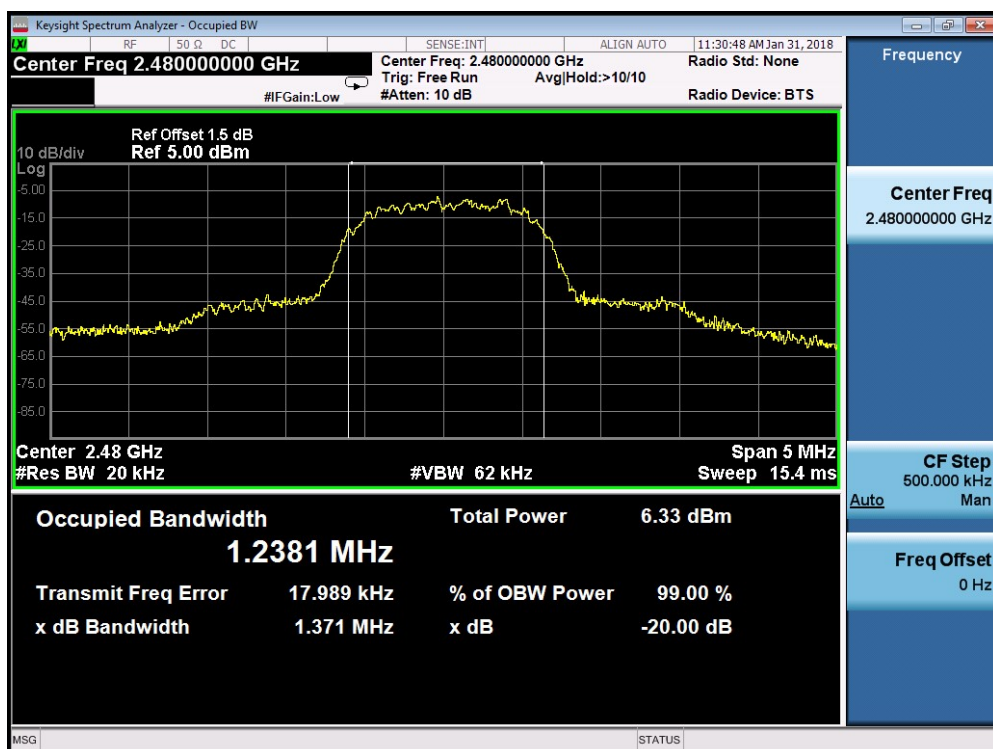
Channel 39 (2441MHz)**Channel 78 (2480MHz)**

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 3	Test Site	: TR-8
Test Date	: 2018.01.31	Test Engineer	: Scott

Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
00	2402	1392	1293.1
39	2441	1371	1234.9
78	2480	1371	1238.1

Channel 00 (2402MHz)



Channel 39 (2441MHz)**Channel 78 (2480MHz)**

6. Carrier Frequency Separation

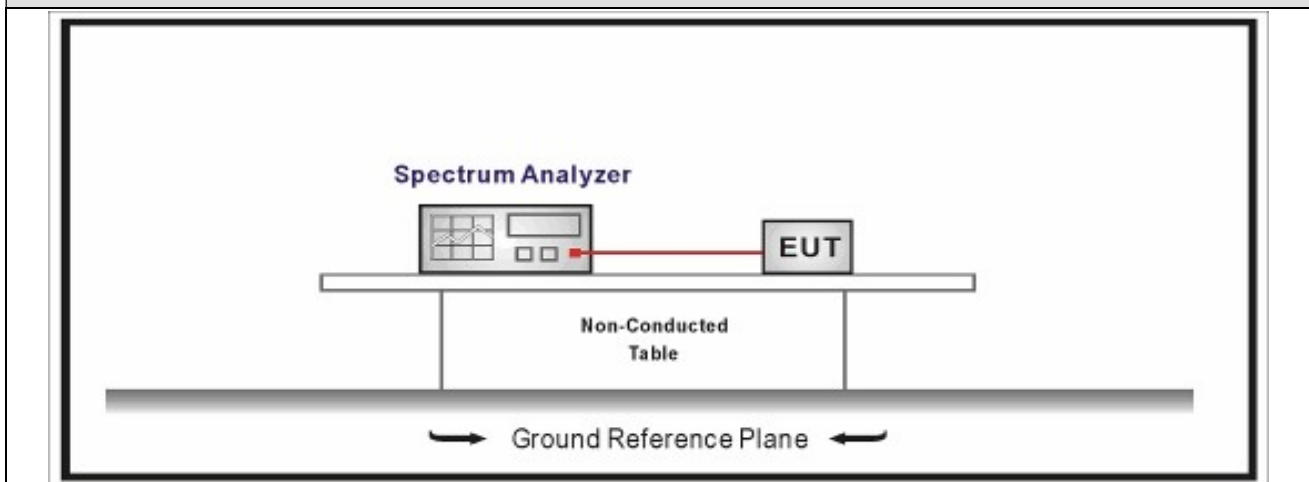
6.1. Test Equipment

Carrier Frequency Separation / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2018.02.04	2019.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	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 equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup

Carrier Frequency Separation test setup:



6.3. Limit

Carrier 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.
☒	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

Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.2	Carrier frequency separation

6.5. Uncertainty

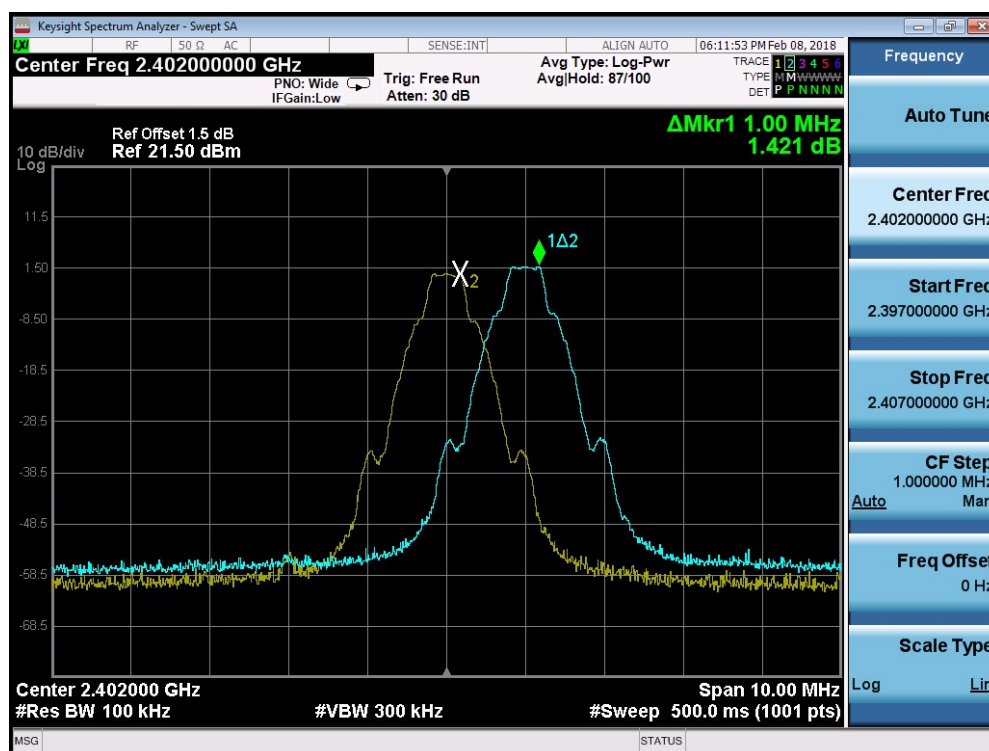
The measurement uncertainty is defined as ± 1 kHz

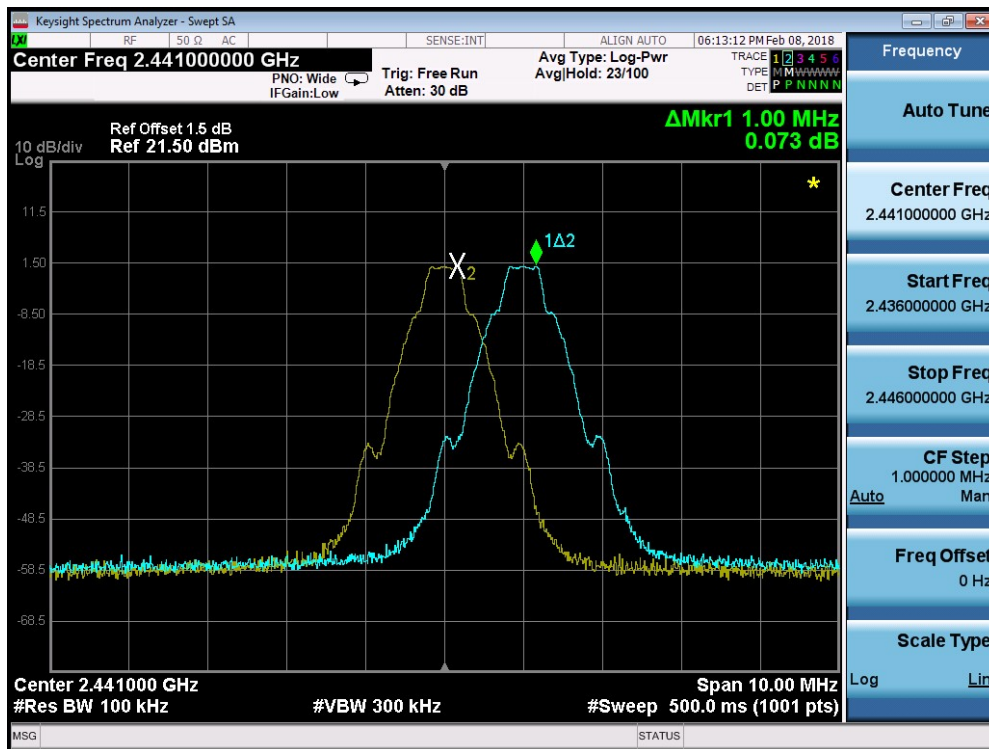
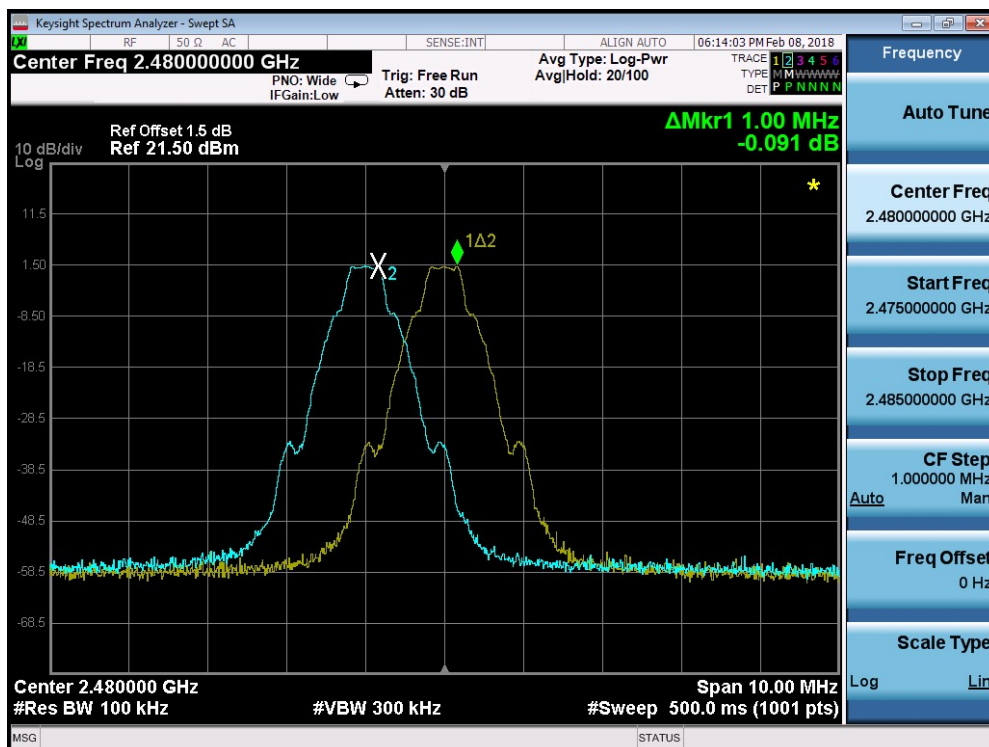
6.6. Test Result

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: TR-8
Test Date	: 2018.02.08	Test Engineer	: Slark

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	648.9	Pass
39	2441	1000	647.5	Pass
78	2480	1000	625.1	Pass

Channel 00 (2402MHz)

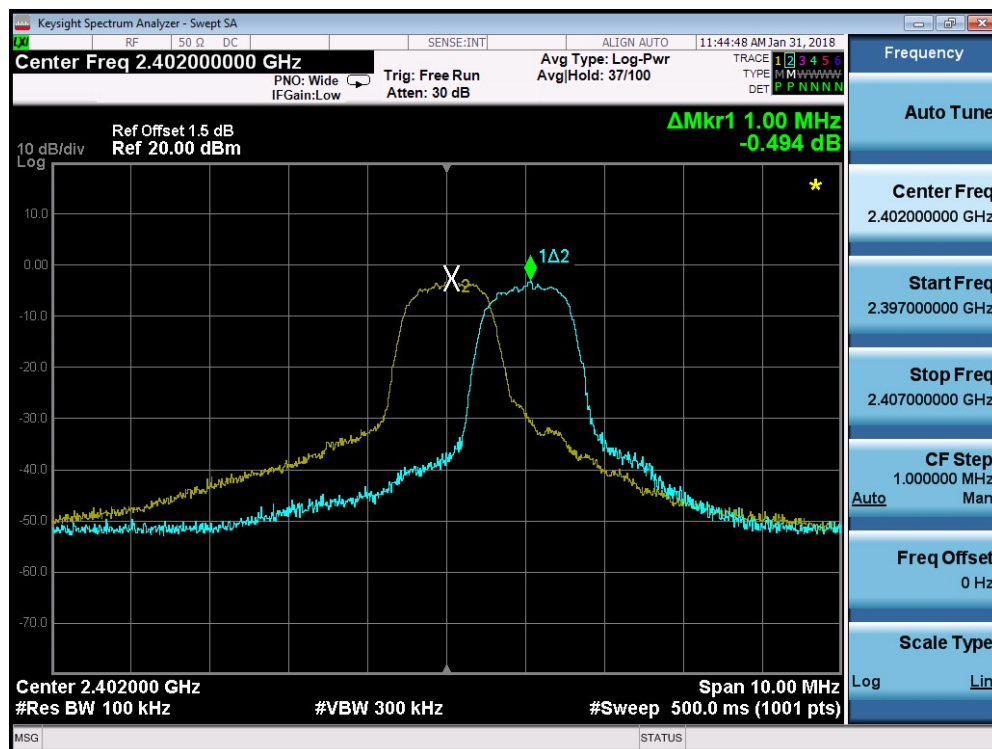


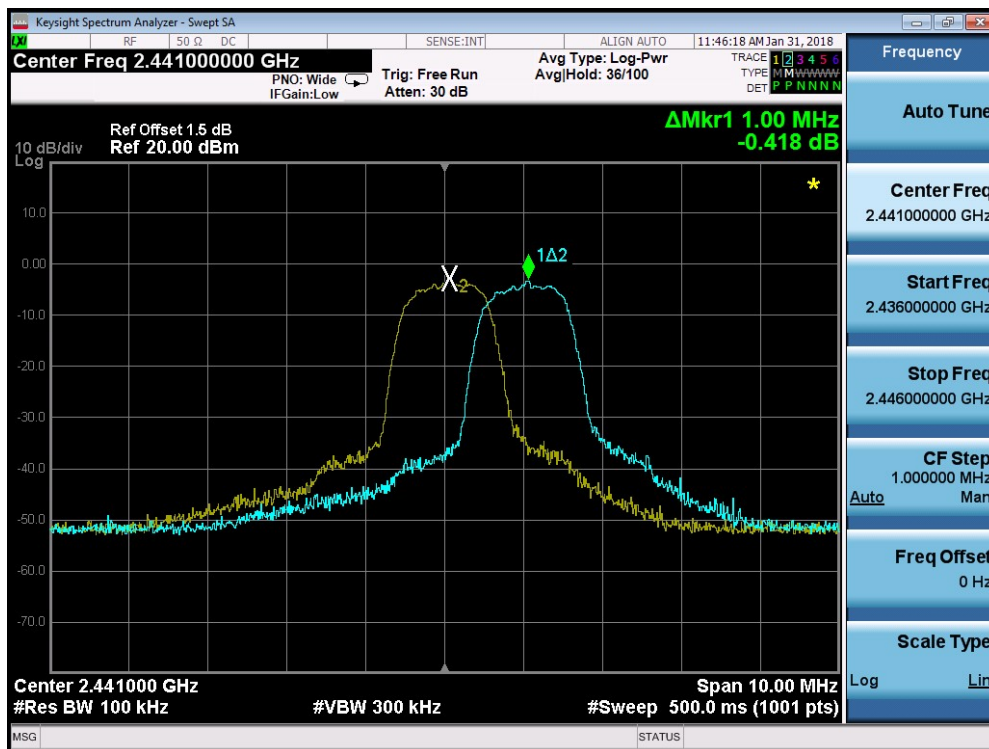
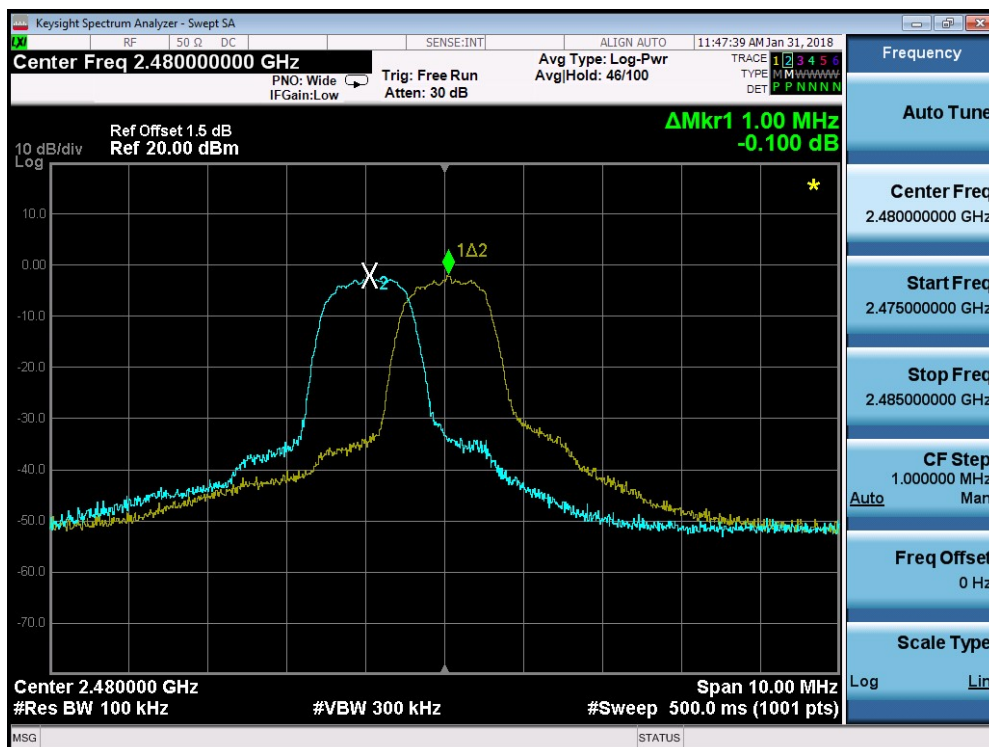
Channel 39 (2441MHz)**Channel 78 (2480MHz)**

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 2	Test Site	: TR-8
Test Date	: 2018.02.08	Test Engineer	: Slark

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	940.0	Pass
39	2441	1000	927.3	Pass
78	2480	1000	950.0	Pass

Channel 00 (2402MHz)



Channel 39 (2441MHz)**Channel 78 (2480MHz)**

Product Name	: EZ-BT WICED Module	Power	: AC 120V/60Hz
Test Mode	: Mode 3	Test Site	: TR-8
Test Date	: 2018.02.08	Test Engineer	: Scott

Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
00	2402	1000	928.0	Pass
39	2441	1000	914.0	Pass
78	2480	1000	914.0	Pass

Channel 00 (2402MHz)

