FCC Test Report

Report No.: AGC06913160501FE03

FCC ID	:	2AIM7JAZZ6
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bluetooth Headset
BRAND NAME	:	BlueFit , Kavoxii
MODEL NAME	:	See page 4
CLIENT	:	Shenzhen Liangzi Zhineng Technology Co., Ltd.
DATE OF ISSUE	:	May 27,2016
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15 Rules
REPORT VERSION	:	V1.0

Attestation of ***G***lobal ***C***ompliance (Shenzhen) Co., Ltd

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 27,2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Liangzi Zhineng Technology Co., Ltd.
Address	#505, Building A2, Baoshan Industrial Dt., Minzhi Longhua District, Shenzhen, China
Manufacturer	Shenzhen Liangzi Zhineng Technology Co., Ltd.
Address	#505, Building A2, Baoshan Industrial Dt., Minzhi Longhua District, Shenzhen, China
Product Designation	Bluetooth Headset
Brand Name	BlueFit , Kavoxii
Test Model	BlueFit JAZZ 6
Series Model	BlueFit JAZZ 7, BlueFit JAZZ 8, BlueFit JAZZ 9, BlueFit JAZZ 10,Kavoxii Blues 4, Kavoxii Blues 5, Kavoxii Blues 6, Kavoxii Blues 7, Kavoxii Blues 8
Difference description	All the same except for model name
Date of test	May 23, 2016 to May 25, 2016
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:
The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

Tested By	Time Huang(Huang Nanhui)	May 27,2016
Reviewed By	Forrest Lei(Lei Yonggang)	May 27,2016
Approved By	Solger Zhang(Zhang Hongyi) Authorized Officer	May 27,2016

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	2.38dBm(Max)
Bluetooth Version	V4.1
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR;GFSK for BLE
Number of channels	79 for BR/EDR, 40 for BLE
Hardware Version	K6-0A
Software Version	v3
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V
Note: 1. The USB port only used for charging and can't be used to transfer data with PC. 2. The EUT didn't work when charging.	

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

3. MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions,radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

4. DESCRIPTION OF TEST MODES

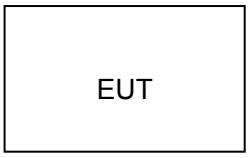
NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

Note:
1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3.The EUT used fully-charged battery when tested.

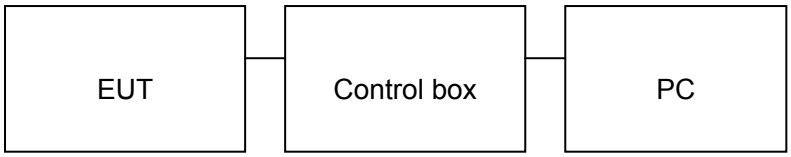
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ITEM	EQUIPMENT	MFR/BRAND	MODEL/TYPE NO.	REMARK
1	Bluetooth Headset	BlueFit , Kavoxii	BlueFit JAZZ 6	EUT
2	PC	Sony	E1412AYCW	A.E
3	Control box	CSR	N/A	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note：N/A means it's not applicable to this item.

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013.

7. ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016
Radiation Cable 1	MXT	RS1	R005	June 6, 2015	June 5, 2016
Radiation Cable 2	MXT	RS1	R006	June 6, 2015	June 5, 2016

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Radiated Emission Test Site					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2015	July 10, 2016
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2015	July 6, 2016
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2015	July 7, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016
Radiation Cable 1	MXT	RS1	R005	June 6, 2015	June 5, 2016
Radiation Cable 2	MXT	RS1	R006	June 6, 2015	June 5, 2016

8. RADIATED EMISSION

8.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

8.2. MEASUREMENT PROCEDURE

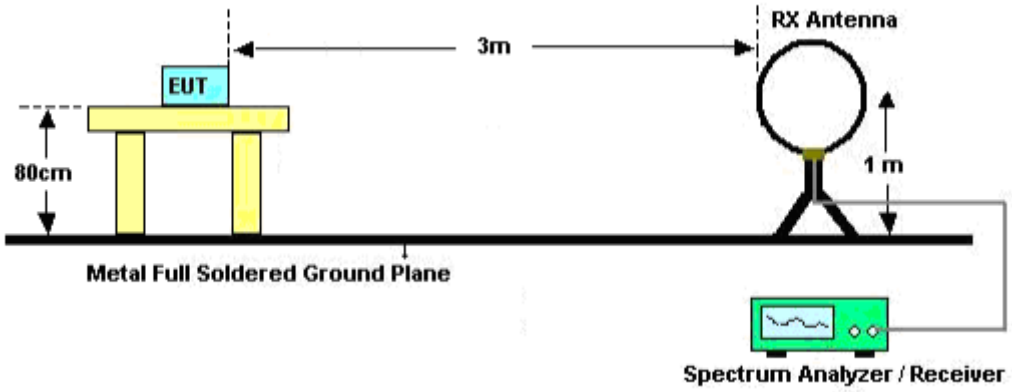
1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(above 1GHz)

The following table is the setting of spectrum analyzer and receiver.

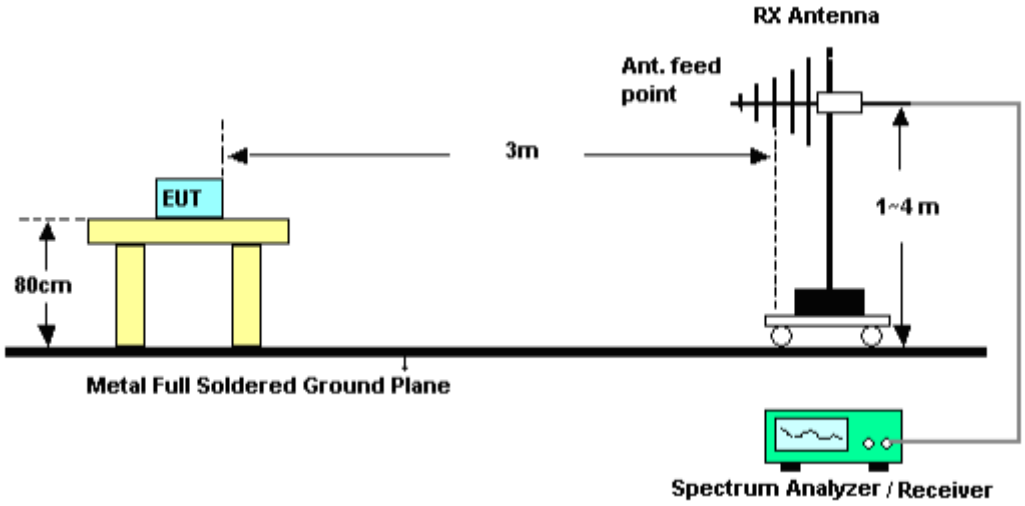
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average
Receiver Parameter	**Setting**
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

8.3. TEST SETUP

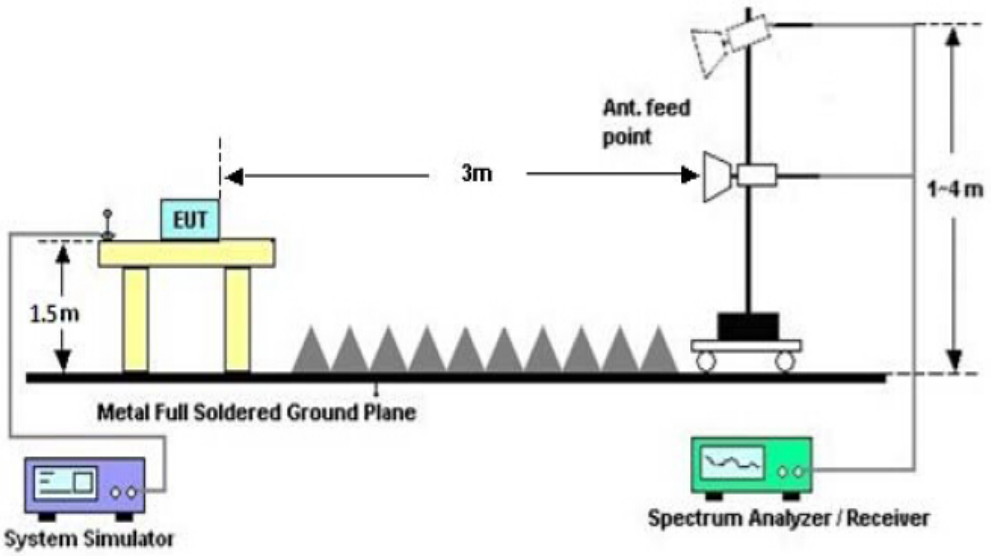
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



8.4. TEST RESULT

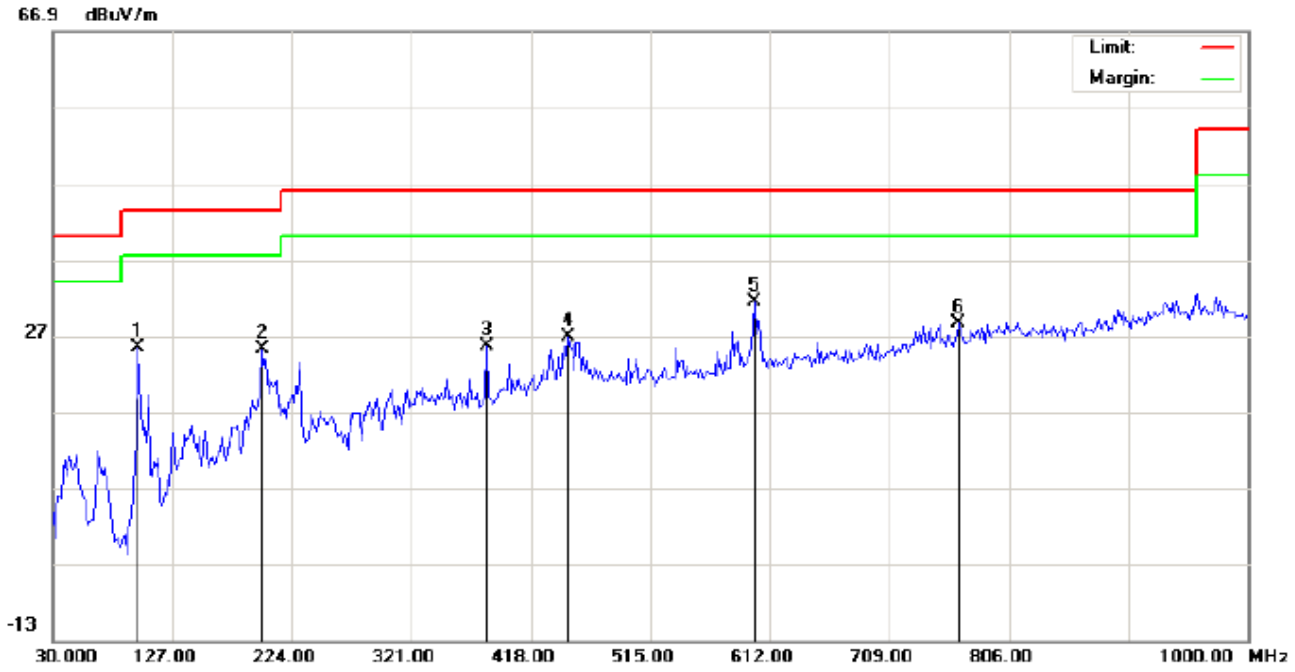
FOR BR/EDR (Worst modulation:GFSK)

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

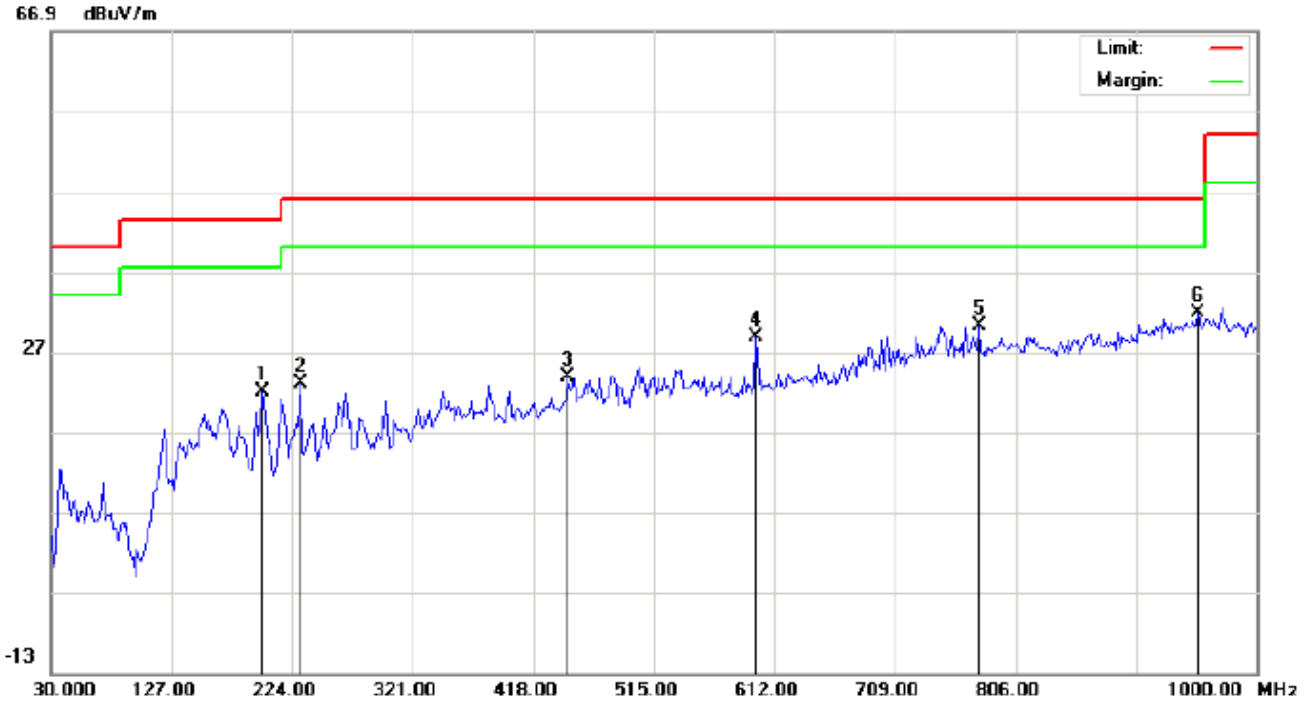
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	15.37	10.00	25.37	43.50	-18.13	peak			
2		199.7500	13.22	11.99	25.21	43.50	-18.29	peak			
3		382.4333	6.56	18.95	25.51	46.00	-20.49	peak			
4		448.7167	6.25	20.55	26.80	46.00	-19.20	peak			
5	*	599.0667	7.60	23.71	31.31	46.00	-14.69	peak			
6		765.5833	1.86	26.84	28.70	46.00	-17.30	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

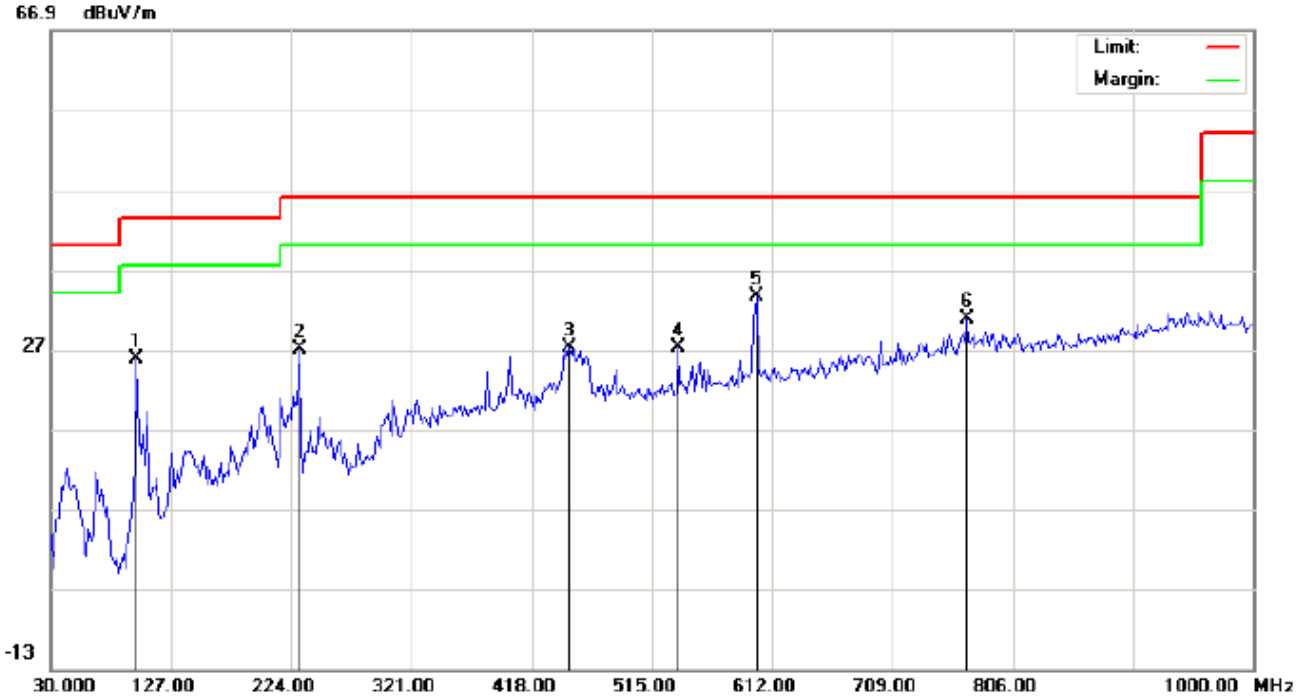
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		199.7500	12.86	9.06	21.92	43.50	-21.58	peak			
2		230.4667	11.06	11.99	23.05	46.00	-22.95	peak			
3		445.4833	3.43	20.45	23.88	46.00	-22.12	peak			
4		597.4500	5.99	22.72	28.71	46.00	-17.29	peak			
5		776.9000	3.25	27.00	30.25	46.00	-15.75	peak			
6	*	953.1167	1.92	29.97	31.89	46.00	-14.11	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

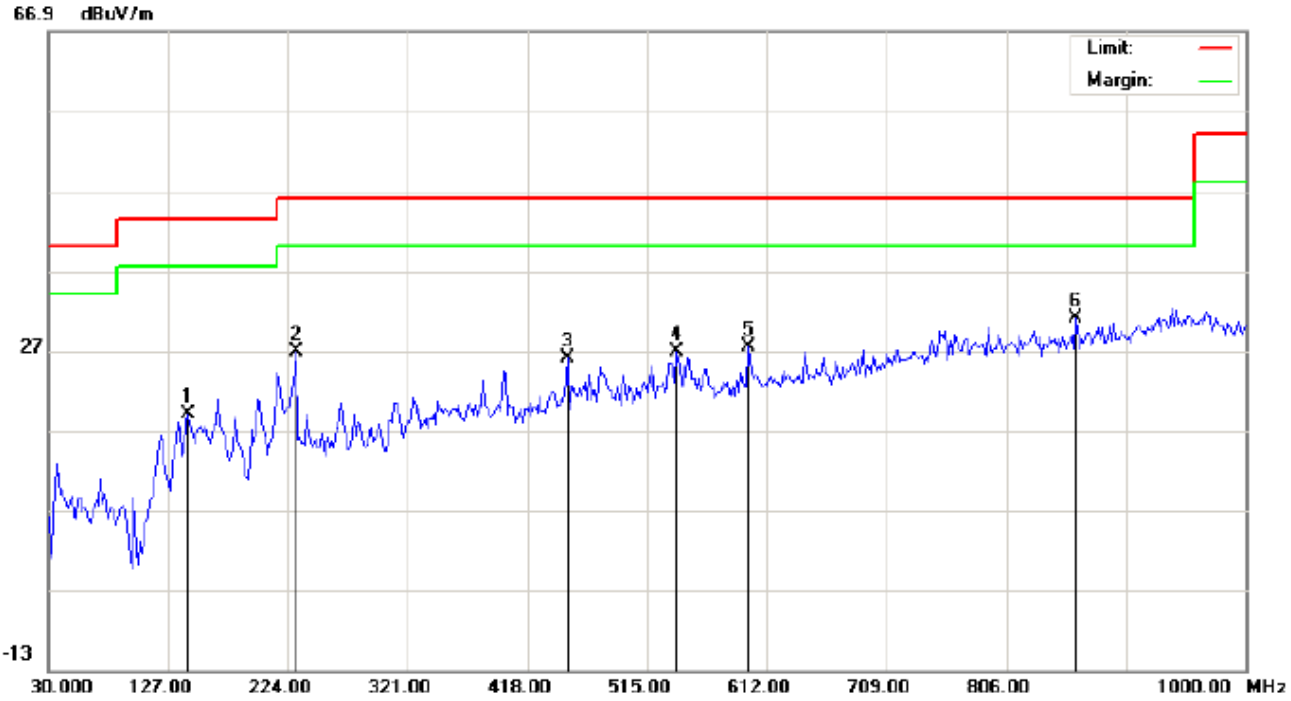
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	15.71	10.00	25.71	43.50	-17.79	peak			
2		230.4667	18.19	8.89	27.08	46.00	-18.92	peak			
3		448.7167	6.62	20.55	27.17	46.00	-18.83	peak			
4		536.0167	5.20	22.10	27.30	46.00	-18.70	peak			
5	*	599.0667	9.91	23.71	33.62	46.00	-12.38	peak			
6		768.8167	3.99	26.89	30.88	46.00	-15.12	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

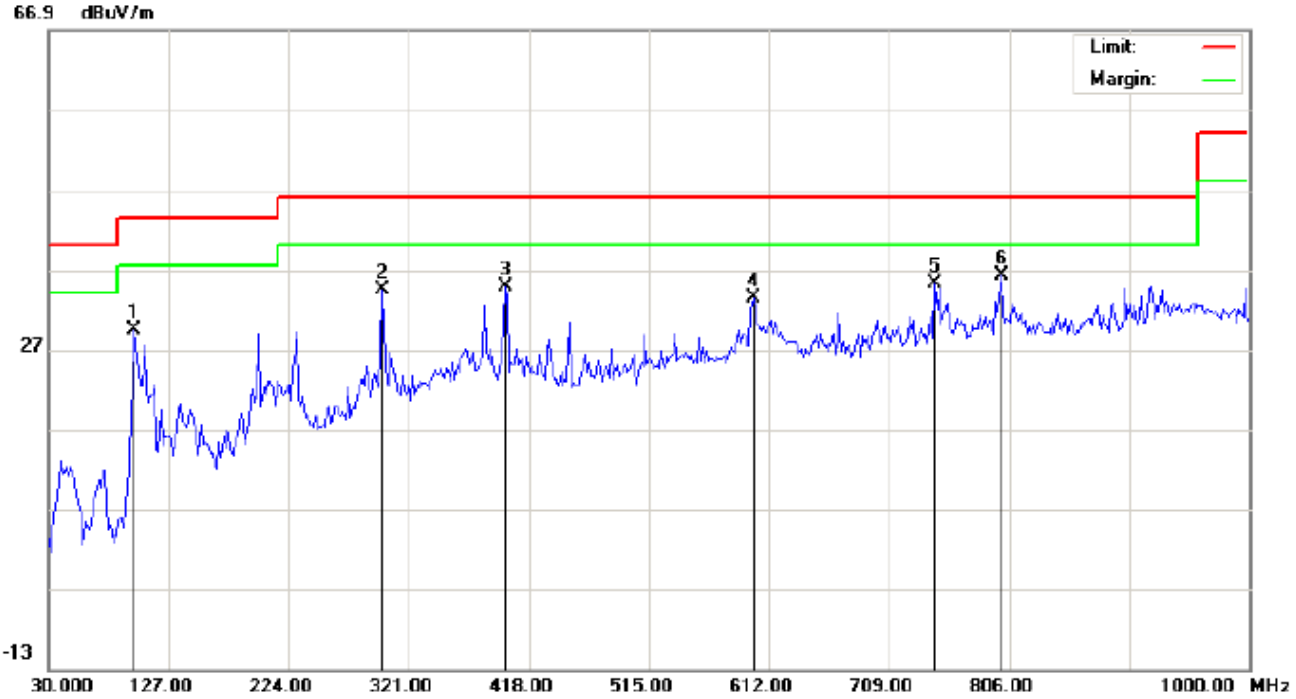
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		143.1666	3.81	15.22	19.03	43.50	-24.47	peak			
2		230.4667	14.77	11.99	26.76	46.00	-19.24	peak			
3		450.3333	5.42	20.59	26.01	46.00	-19.99	peak			
4		539.2500	4.69	22.19	26.88	46.00	-19.12	peak			
5		597.4500	4.77	22.72	27.49	46.00	-18.51	peak			
6	*	862.5833	3.36	27.64	31.00	46.00	-15.00	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

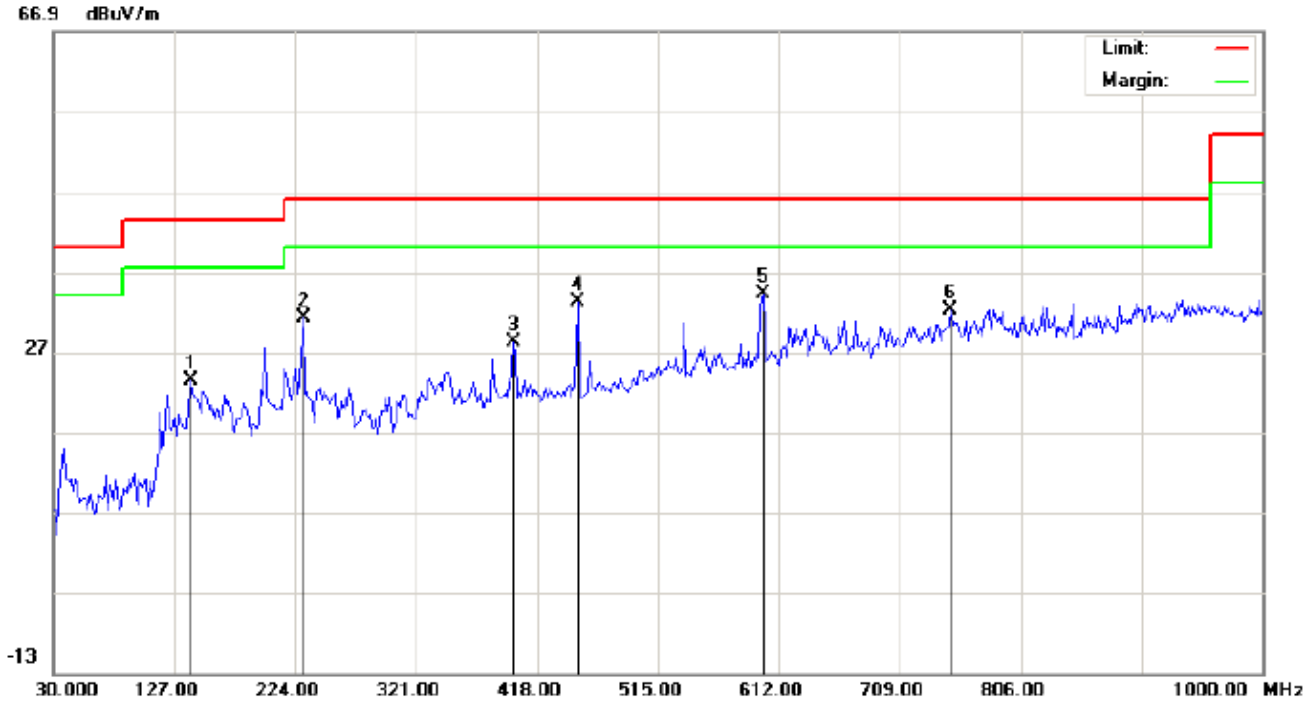
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 53.6 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	19.33	10.00	29.33	43.50	-14.17	peak			
2		299.9833	19.09	15.41	34.50	46.00	-11.50	peak			
3		398.6000	15.80	19.06	34.86	46.00	-11.14	peak			
4		599.0667	9.63	23.71	33.34	46.00	-12.66	peak			
5		746.1833	8.72	26.52	35.24	46.00	-10.76	peak			
6	*	799.5333	8.93	27.31	36.24	46.00	-9.76	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 53.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		139.9333	8.17	15.17	23.34	43.50	-20.16	peak			
2		230.4667	19.24	11.99	31.23	46.00	-14.77	peak			
3		398.6000	9.21	19.06	28.27	46.00	-17.73	peak			
4		450.3333	12.56	20.59	33.15	46.00	-12.85	peak			
5	*	599.0667	11.55	22.73	34.28	46.00	-11.72	peak			
6		749.4167	5.69	26.61	32.30	46.00	-13.70	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

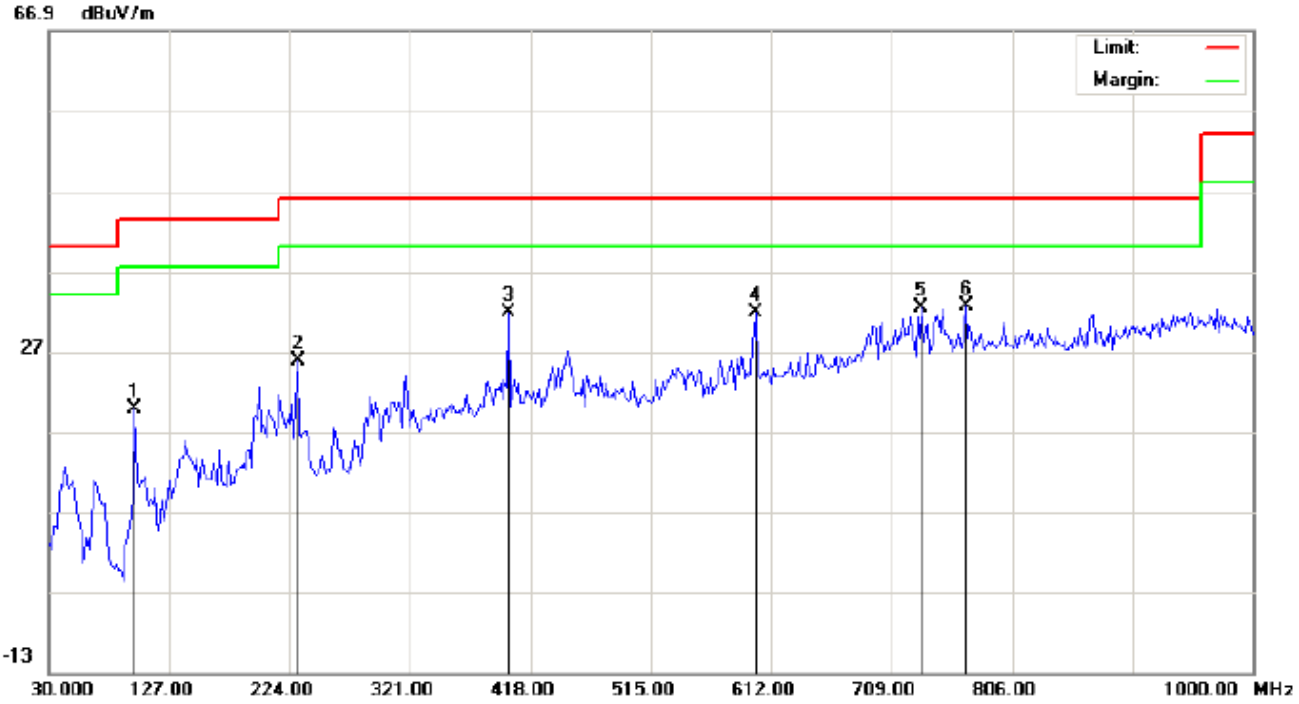
FOR BLE

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

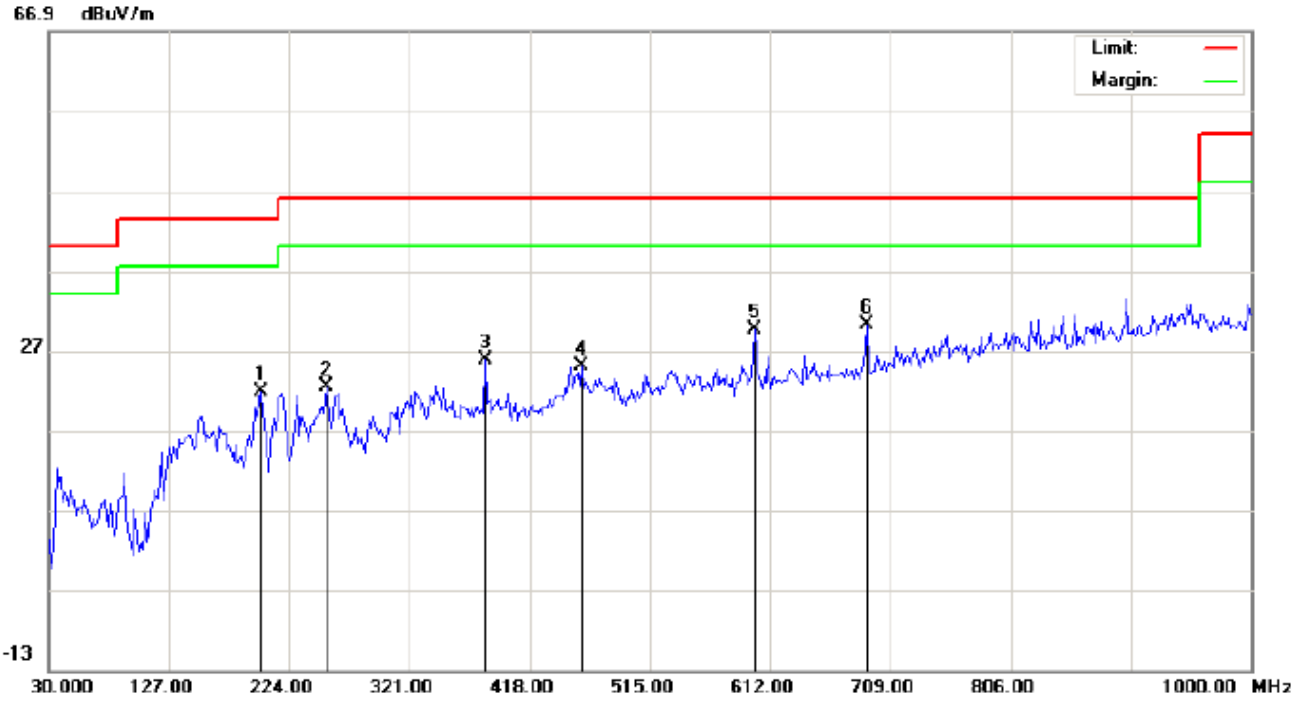
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	9.86	10.00	19.86	43.50	-23.64	peak			
2		230.4667	17.01	8.89	25.90	46.00	-20.10	peak			
3		400.2167	12.78	19.08	31.86	46.00	-14.14	peak			
4		599.0667	8.10	23.71	31.81	46.00	-14.19	peak			
5		733.2500	6.30	26.15	32.45	46.00	-13.55	peak			
6	*	768.8167	5.63	26.89	32.52	46.00	-13.48	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

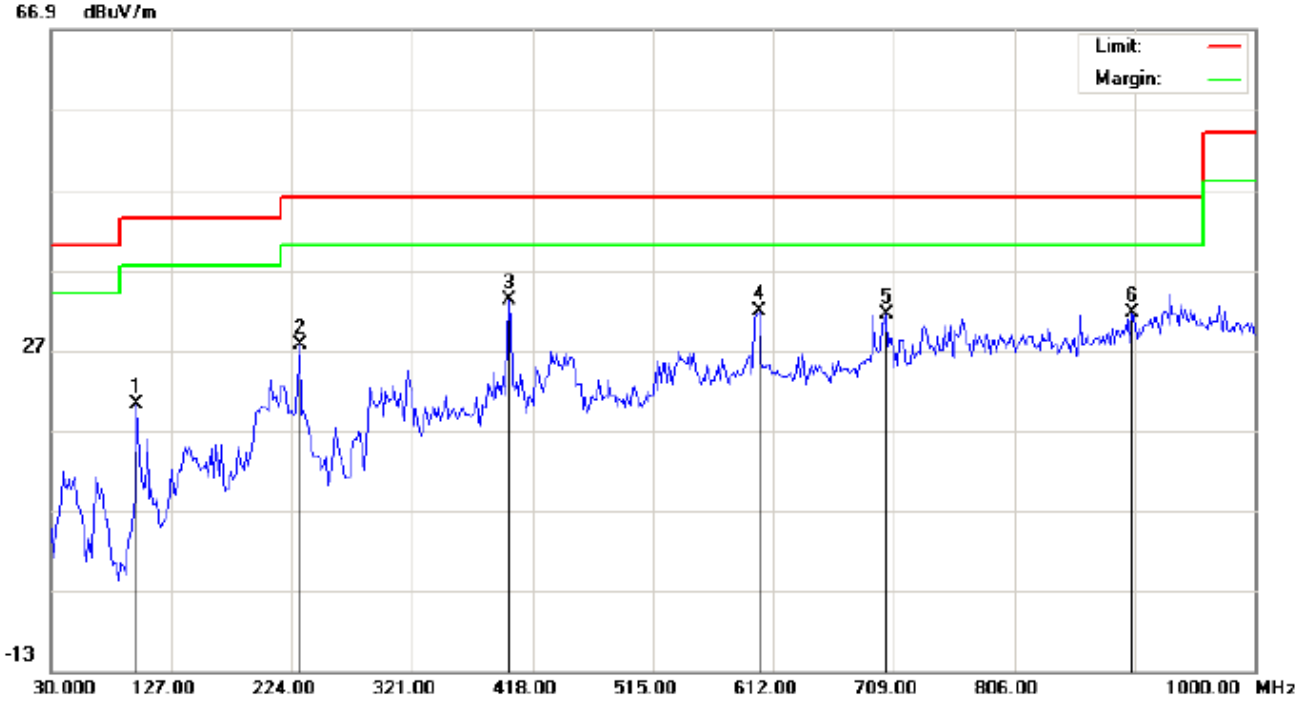
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		201.3667	12.69	9.13	21.82	43.50	-21.68	peak			
2		254.7167	8.42	14.04	22.46	46.00	-23.54	peak			
3		382.4333	6.82	18.95	25.77	46.00	-20.23	peak			
4		460.0333	4.35	20.70	25.05	46.00	-20.95	peak			
5		599.0667	6.81	22.73	29.54	46.00	-16.46	peak			
6	*	689.6000	5.27	24.91	30.18	46.00	-15.82	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

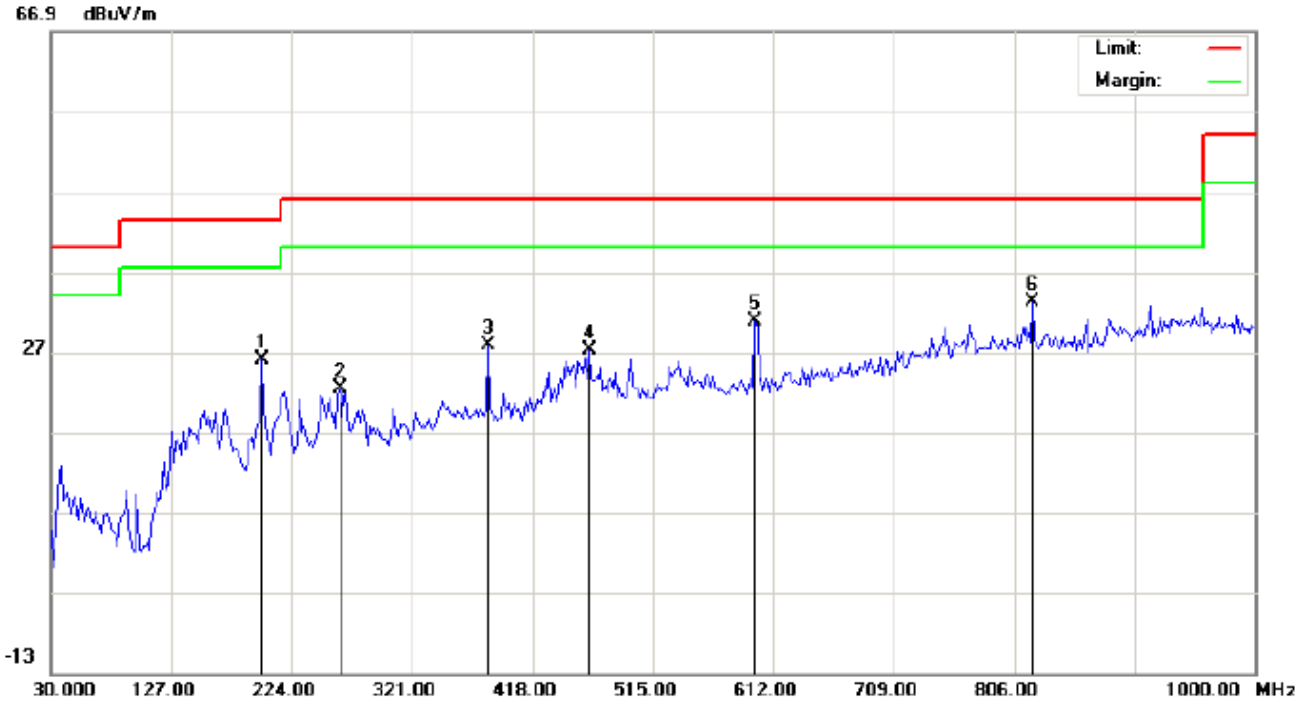
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	10.19	10.00	20.19	43.50	-23.31	peak			
2		230.4667	18.66	8.89	27.55	46.00	-18.45	peak			
3	*	398.6000	14.18	19.06	33.24	46.00	-12.76	peak			
4		600.6833	8.03	23.73	31.76	46.00	-14.24	peak			
5		702.5333	6.07	25.26	31.33	46.00	-14.67	peak			
6		901.3833	2.87	28.65	31.52	46.00	-14.48	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

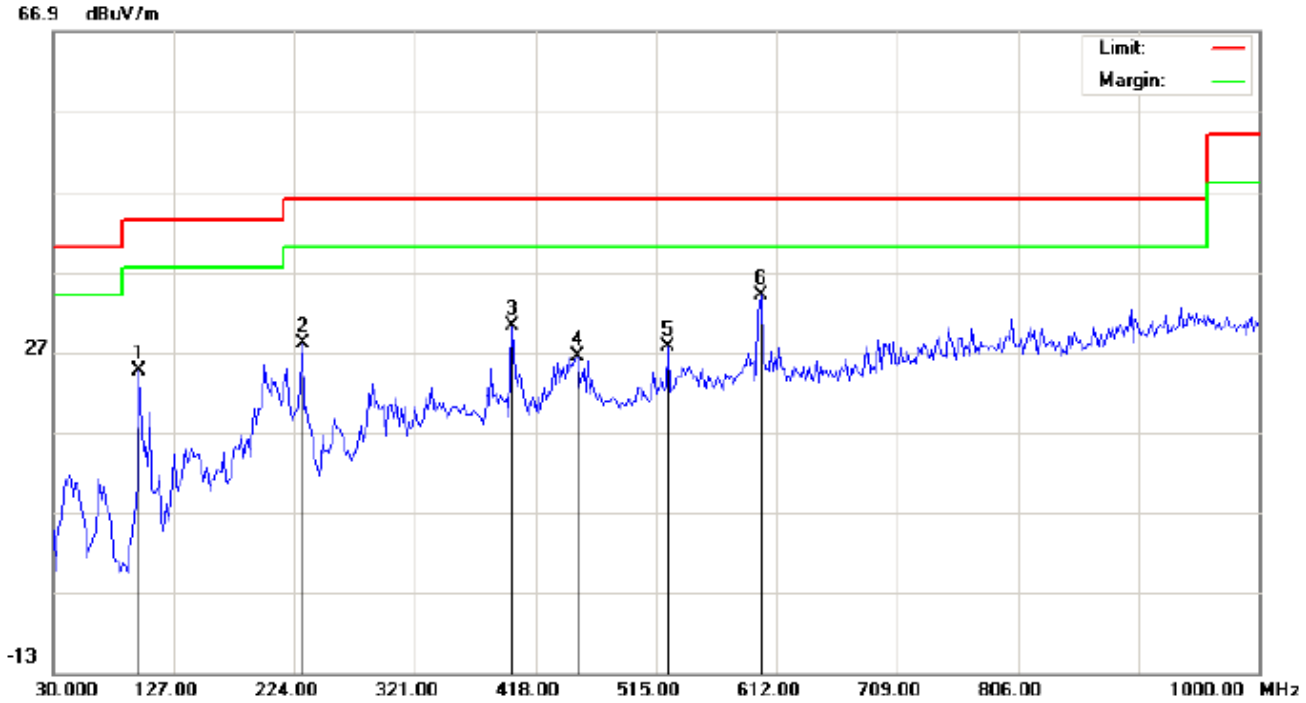
No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		199.7500	16.99	9.06	26.05	43.50	-17.45	peak			
2		262.8000	8.21	14.29	22.50	46.00	-23.50	peak			
3		382.4333	8.78	18.95	27.73	46.00	-18.27	peak			
4		463.2667	6.47	20.73	27.20	46.00	-18.80	peak			
5		597.4500	8.01	22.72	30.73	46.00	-15.27	peak			
6	*	820.5500	5.94	27.32	33.26	46.00	-12.74	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

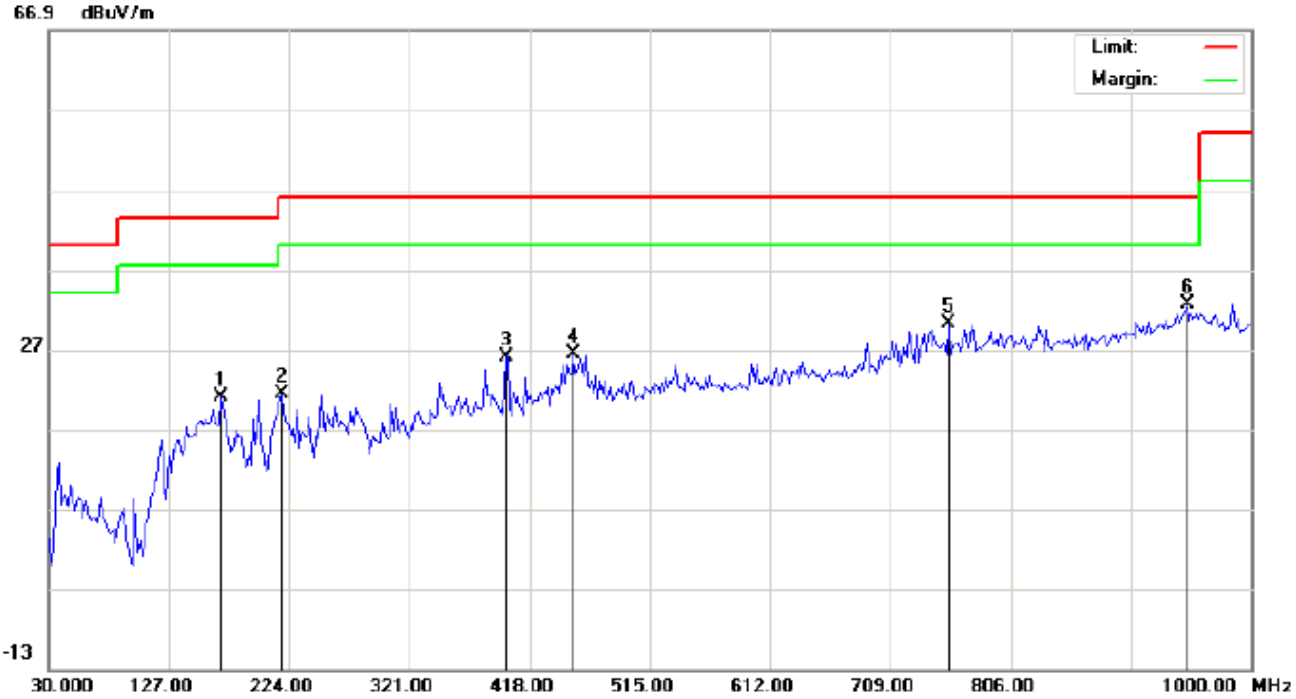
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	14.61	10.00	24.61	43.50	-18.89	peak			
2		230.4667	19.19	8.89	28.08	46.00	-17.92	peak			
3		398.6000	11.17	19.06	30.23	46.00	-15.77	peak			
4		451.9500	5.75	20.61	26.36	46.00	-19.64	peak			
5		524.7000	5.78	21.80	27.58	46.00	-18.42	peak			
6	*	599.0667	10.23	23.71	33.94	46.00	-12.06	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.7
Humidity: 55.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		169.0333	6.29	14.76	21.05	43.50	-22.45	peak			
2		217.5333	10.71	10.72	21.43	46.00	-24.57	peak			
3		398.6000	6.97	19.06	26.03	46.00	-19.97	peak			
4		453.5667	5.68	20.63	26.31	46.00	-19.69	peak			
5		755.8832	3.45	26.71	30.16	46.00	-15.84	peak			
6	*	948.2667	2.71	29.95	32.66	46.00	-13.34	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

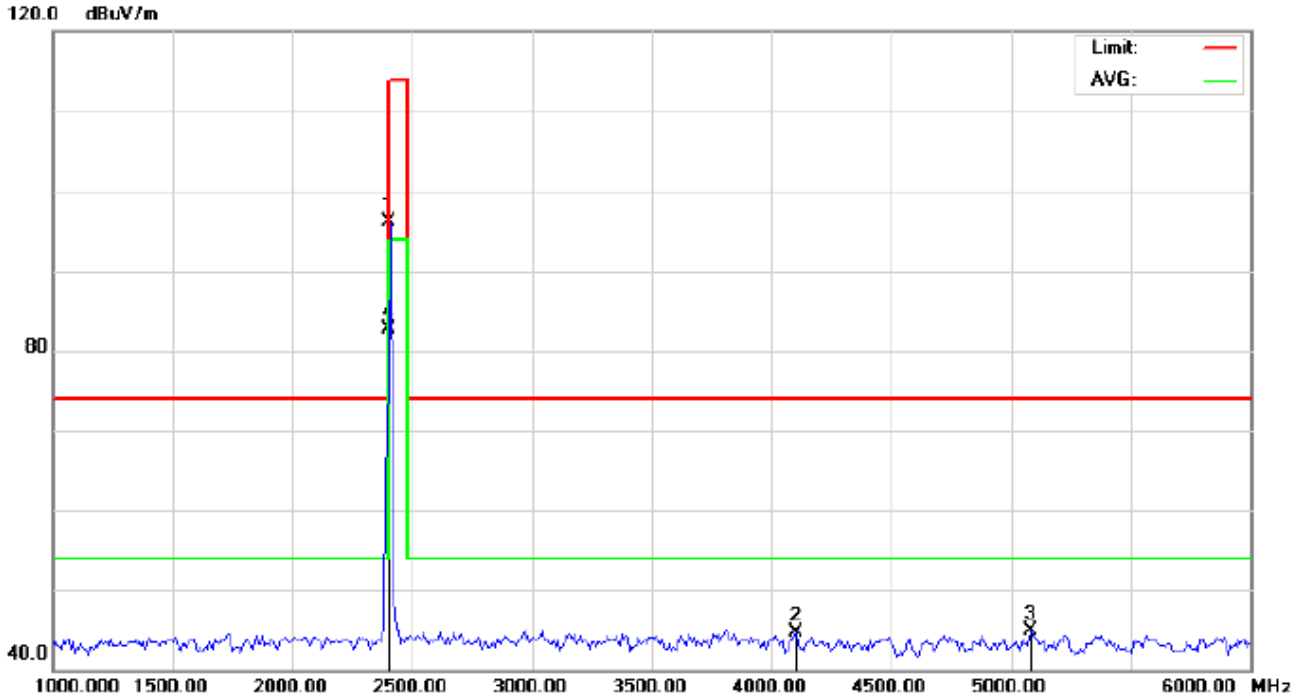
2. The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ

(Worst modulation: GFSK)

FOR BR/EDR

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

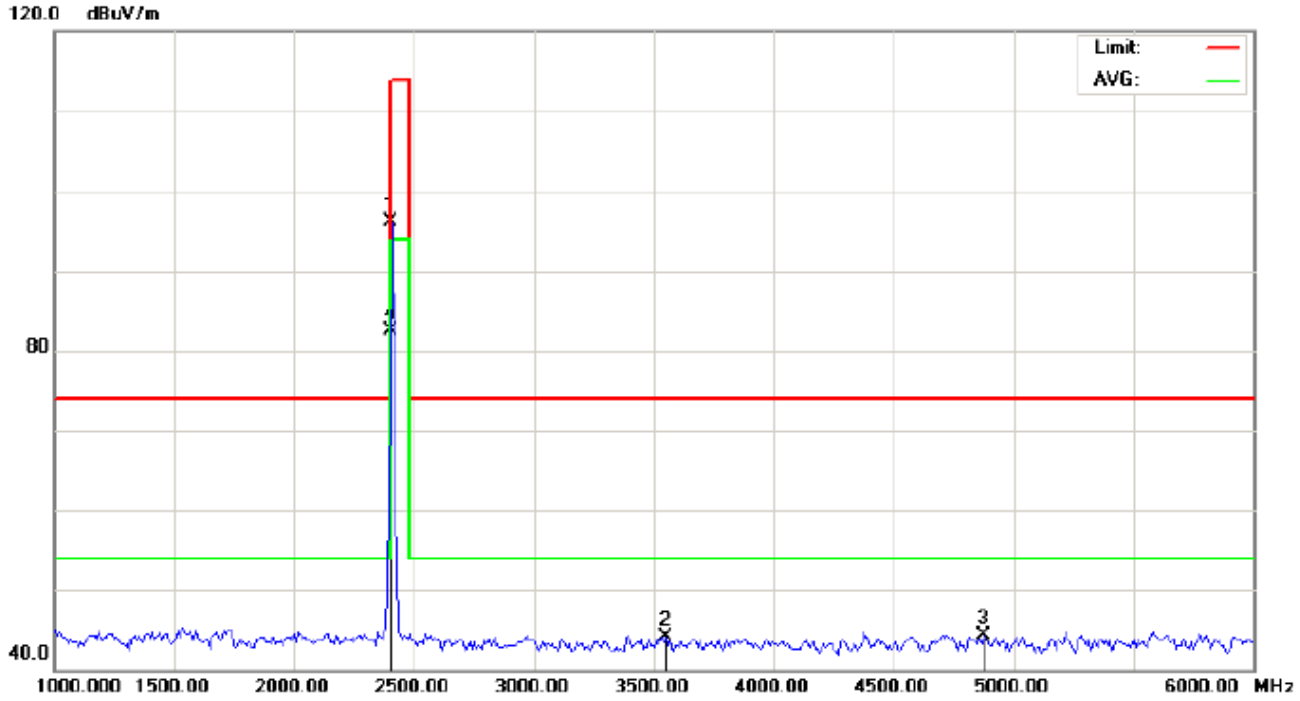
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	105.69	-9.68	96.01	114.00	-17.99	peak			
2		4100.000	49.10	-4.47	44.63	74.00	-29.37	peak			
3		5083.333	46.77	-1.80	44.97	74.00	-29.03	peak			
4	*	2402.000	92.41	-9.68	82.73	94.00	-11.27	AVG	100	261	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

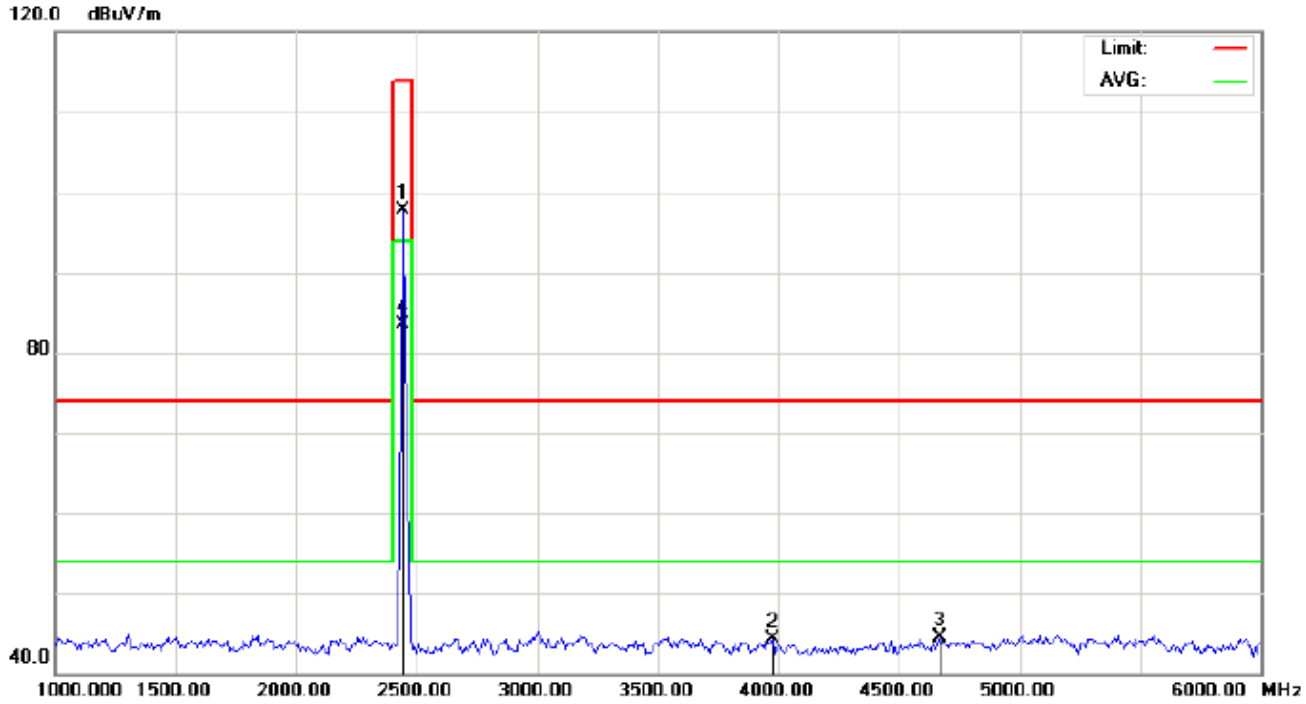
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	105.72	-9.68	96.04	114.00	-17.96	peak			
2		3550.000	51.72	-7.58	44.14	74.00	-29.86	peak			
3		4875.000	46.51	-2.13	44.38	74.00	-29.62	peak			
4	*	2402.000	92.26	-9.68	82.58	94.00	-11.42	AVG	100	179	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

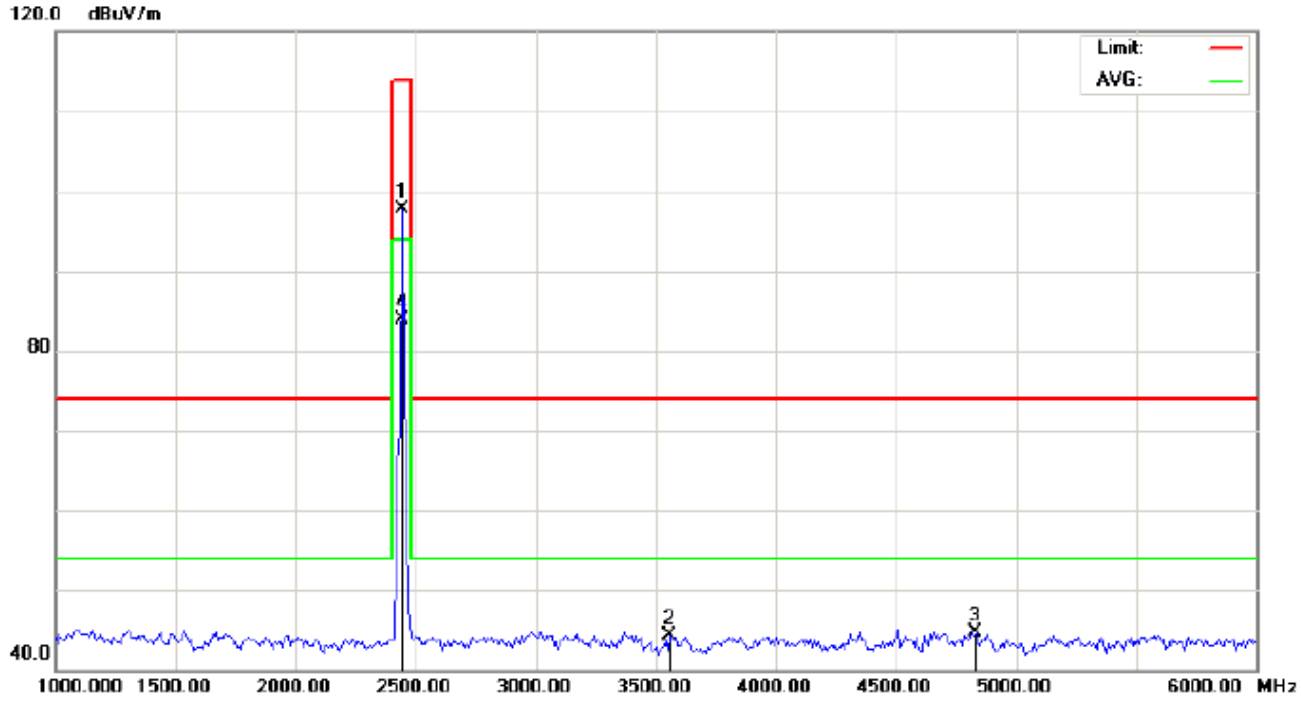
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	107.26	-9.63	97.63	114.00	-16.37	peak			
2		3975.000	49.22	-4.96	44.26	74.00	-29.74	peak			
3		4666.667	47.14	-2.67	44.47	74.00	-29.53	peak			
4	*	2441.000	93.22	-9.63	83.59	94.00	-10.41	AVG	100	263	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

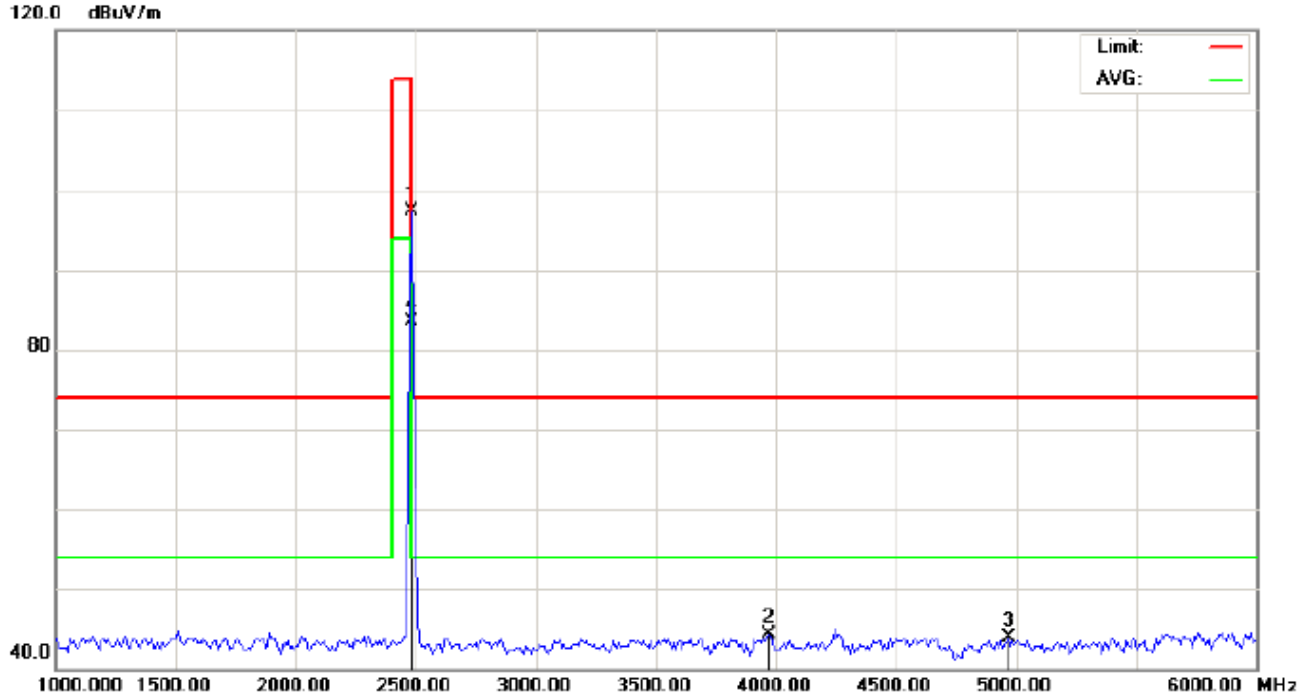
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	107.27	-9.63	97.64	114.00	-16.36	peak			
2		3558.333	51.78	-7.53	44.25	74.00	-29.75	peak			
3		4833.333	47.00	-2.24	44.76	74.00	-29.24	peak			
4	*	2441.000	93.49	-9.63	83.86	94.00	-10.14	AVG	100	179	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

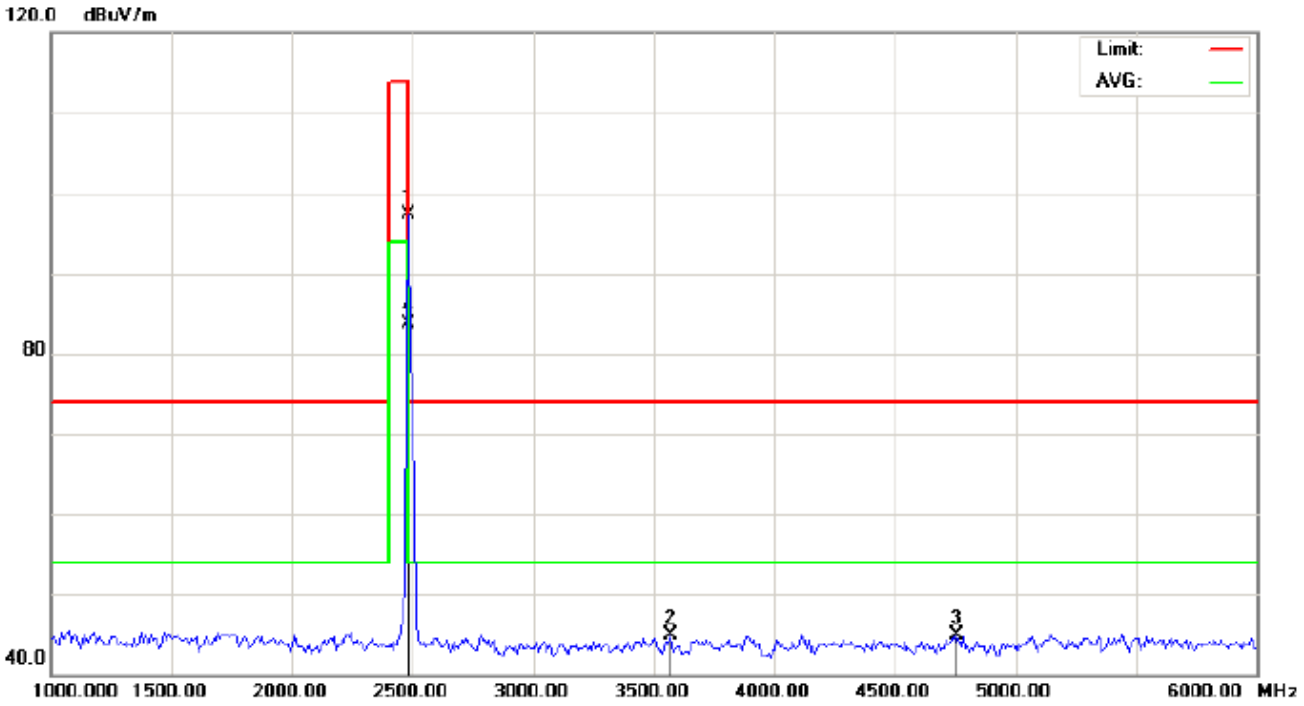
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	106.85	-9.59	97.26	114.00	-16.74	peak			
2		3966.667	49.41	-5.02	44.39	74.00	-29.61	peak			
3		4966.667	45.79	-1.89	43.90	74.00	-30.10	peak			
4	*	2480.000	93.11	-9.59	83.52	94.00	-10.48	AVG	100	267	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	106.88	-9.59	97.29	114.00	-16.71	peak			
2		3566.667	52.39	-7.48	44.91	74.00	-29.09	peak			
3		4758.333	47.39	-2.43	44.96	74.00	-29.04	peak			
4	*	2480.000	93.28	-9.59	83.69	94.00	-10.31	AVG	100	187	

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	105.69	-9.68	96.01	114.00	-17.99	Horizontal
2402	105.72	-9.68	96.04	114.00	-17.96	Vertical
2441	107.26	-9.63	97.63	114.00	-16.37	Horizontal
2441	107.27	-9.63	97.64	114.00	-16.36	Vertical
2480	106.85	-9.59	97.26	114.00	-16.74	Horizontal
2480	106.88	-9.59	97.29	114.00	-16.71	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	92.41	-9.68	82.73	94.00	-11.27	Horizontal
2402	92.26	-9.68	82.58	94.00	-11.42	Vertical
2441	93.22	-9.63	83.59	94.00	-10.41	Horizontal
2441	93.49	-9.63	83.86	94.00	-10.14	Vertical
2480	93.11	-9.59	83.52	94.00	-10.48	Horizontal
2480	93.28	-9.59	83.69	94.00	-10.31	Vertical

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	104.19	-9.68	94.51	114	-19.49	Horizontal
2402	104.04	-9.68	94.36	114	-19.64	Vertical
2441	106.03	-9.68	96.35	114	-17.65	Horizontal
2441	105.82	-9.68	96.14	114	-17.86	Vertical
2480	105.39	-9.63	95.76	114	-18.24	Horizontal
2480	105.21	-9.63	95.58	114	-18.42	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	91.68	-9.63	82.05	94	-11.95	Horizontal
2402	91.50	-9.63	81.87	94	-12.13	Vertical
2441	93.43	-9.59	83.84	94	-10.16	Horizontal
2441	93.28	-9.59	83.69	94	-10.31	Vertical
2480	92.85	-9.59	83.26	94	-10.74	Horizontal
2480	92.66	-9.59	83.07	94	-10.93	Vertical

3Mbps Result:

Peak value

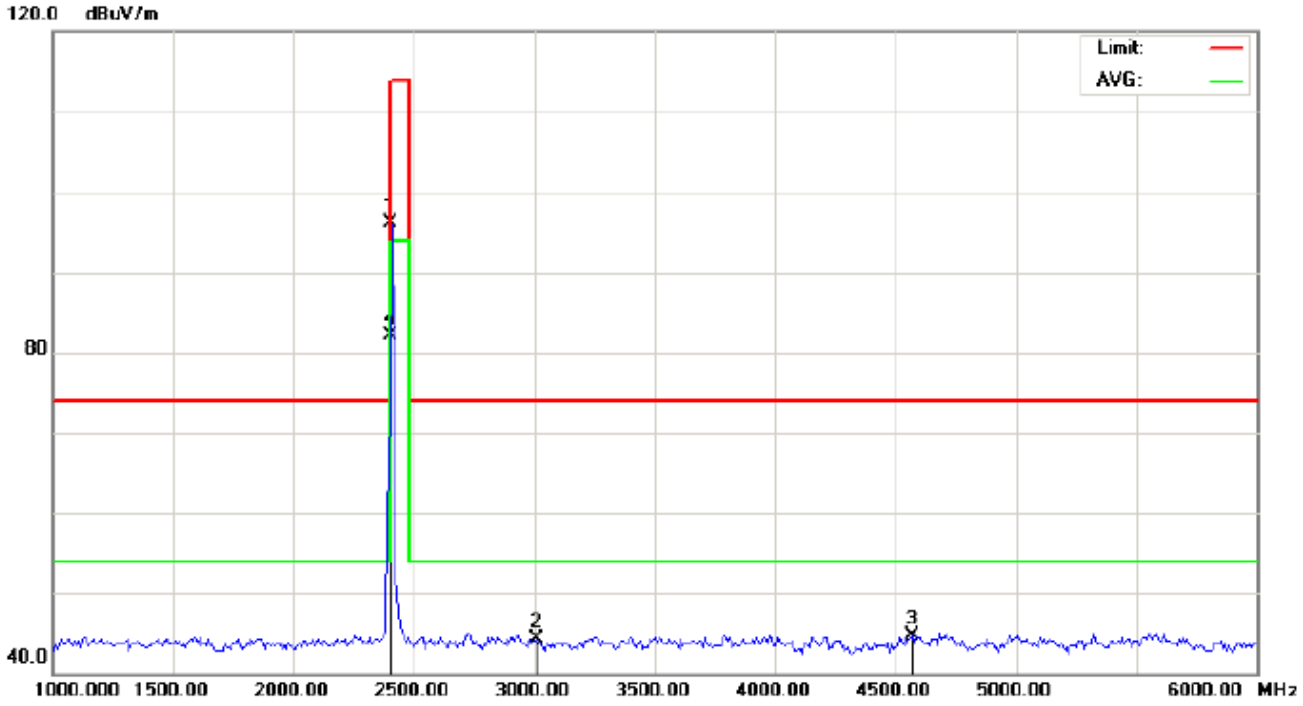
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	104.09	-9.68	94.41	114	-19.59	Horizontal
2402	103.90	-9.68	94.22	114	-19.78	Vertical
2441	106.02	-9.68	96.34	114	-17.66	Horizontal
2441	105.85	-9.68	96.17	114	-17.83	Vertical
2480	105.28	-9.63	95.65	114	-18.35	Horizontal
2480	105.08	-9.63	95.45	114	-18.55	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	91.57	-9.63	81.94	94	-12.06	Horizontal
2402	91.37	-9.63	81.74	94	-12.26	Vertical
2441	93.32	-9.59	83.73	94	-10.27	Horizontal
2441	93.21	-9.59	83.62	94	-10.38	Vertical
2480	92.77	-9.59	83.18	94	-10.82	Horizontal
2480	92.73	-9.59	83.14	94	-10.86	Vertical

FOR BLE

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

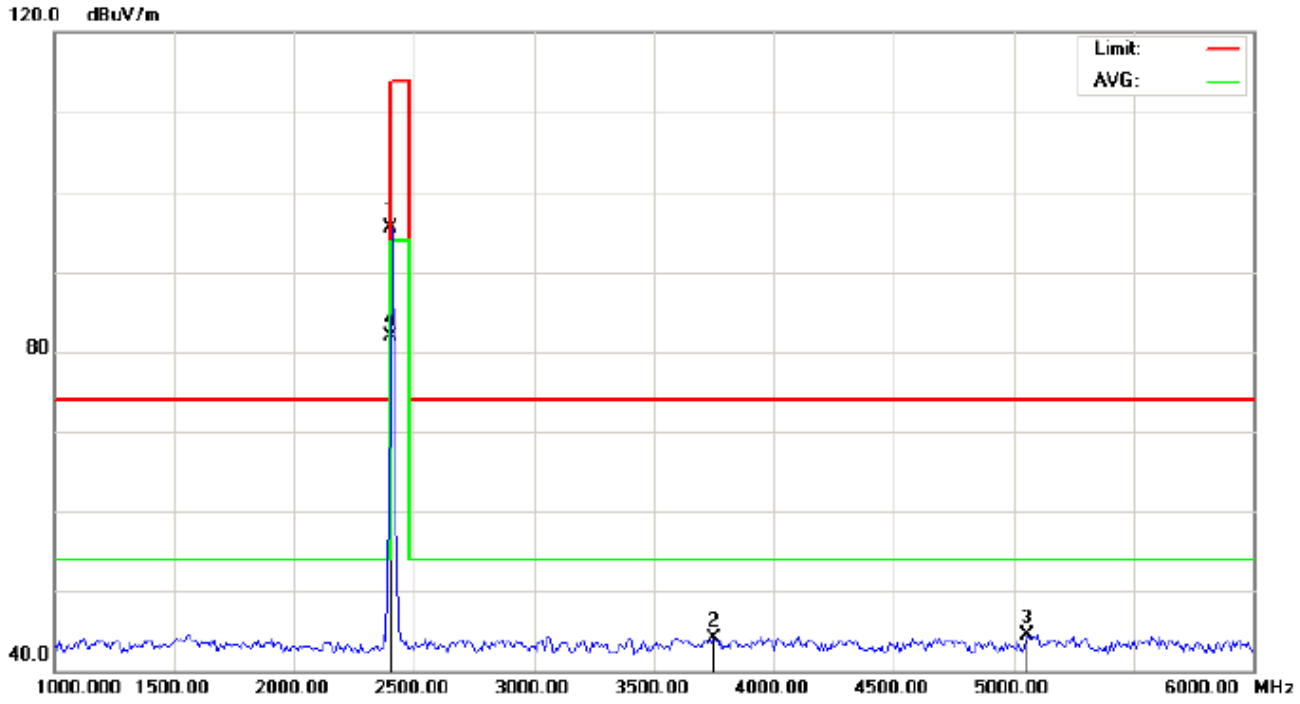
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	105.69	-9.68	96.01	114.00	-17.99	peak			
2		3008.333	52.69	-8.35	44.34	74.00	-29.66	peak			
3		4566.667	47.73	-2.94	44.79	74.00	-29.21	peak			
4	*	2402.000	91.83	-9.68	82.15	94.00	-11.85	AVG	100	79	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

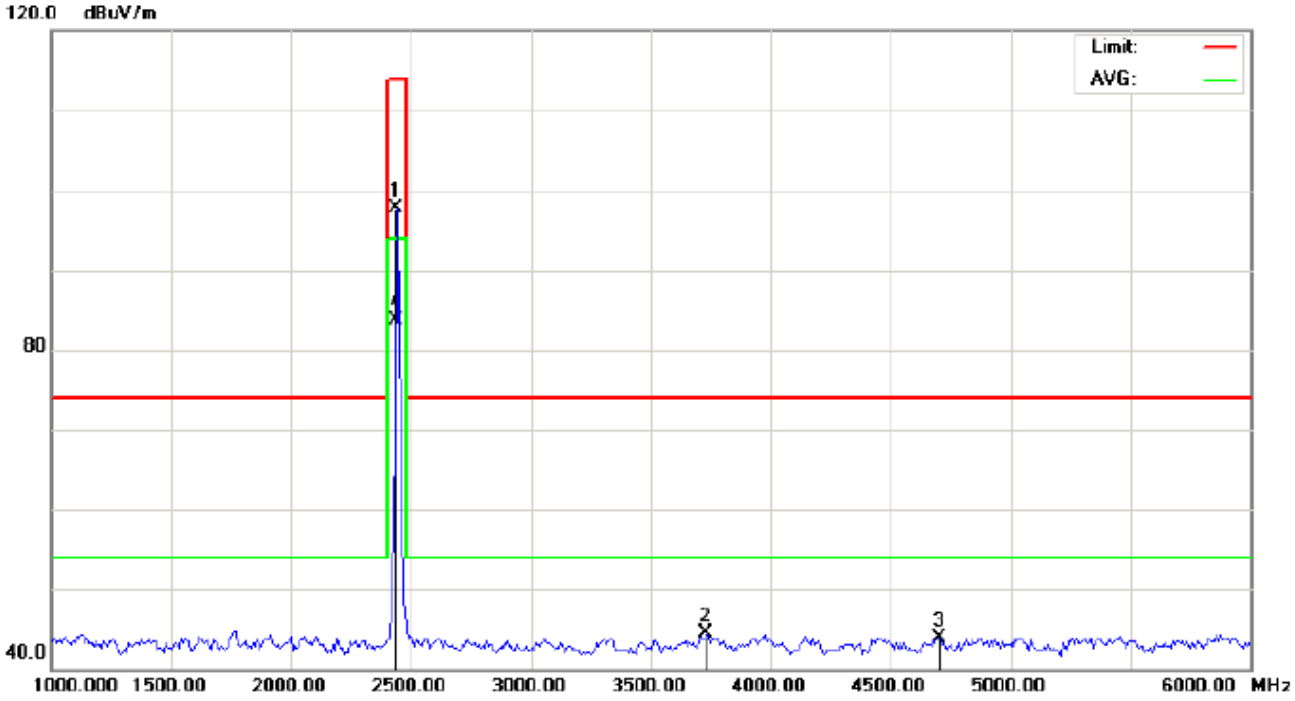
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	105.26	-9.68	95.58	114.00	-18.42	peak			
2		3750.000	50.49	-6.35	44.14	74.00	-29.86	peak			
3		5058.333	46.32	-1.80	44.52	74.00	-29.48	peak			
4	*	2402.000	91.65	-9.68	81.97	94.00	-12.03	AVG	100	238	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

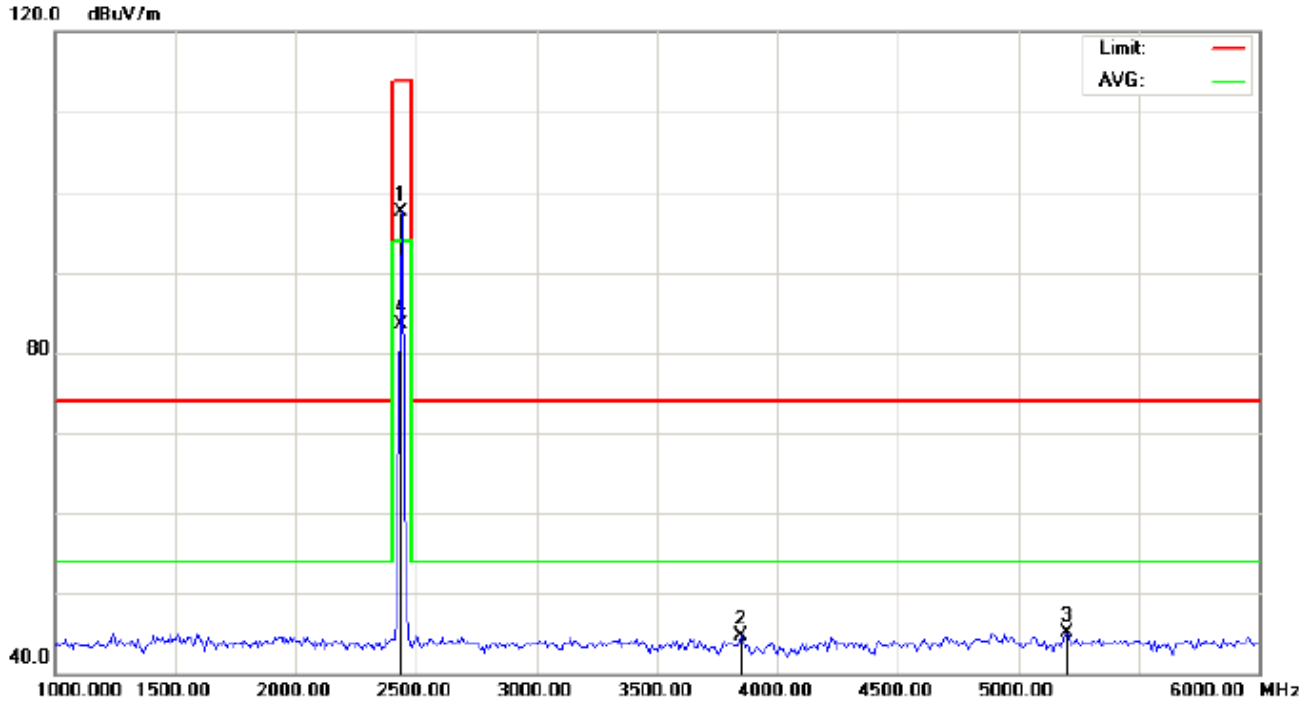
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	107.28	-9.64	97.64	114.00	-16.36	peak			
2		3733.333	50.96	-6.45	44.51	74.00	-29.49	peak			
3		4700.000	46.49	-2.59	43.90	74.00	-30.10	peak			
4	*	2440.000	93.26	-9.64	83.62	94.00	-10.38	AVG	100	82	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Middle Channel TX
Note:

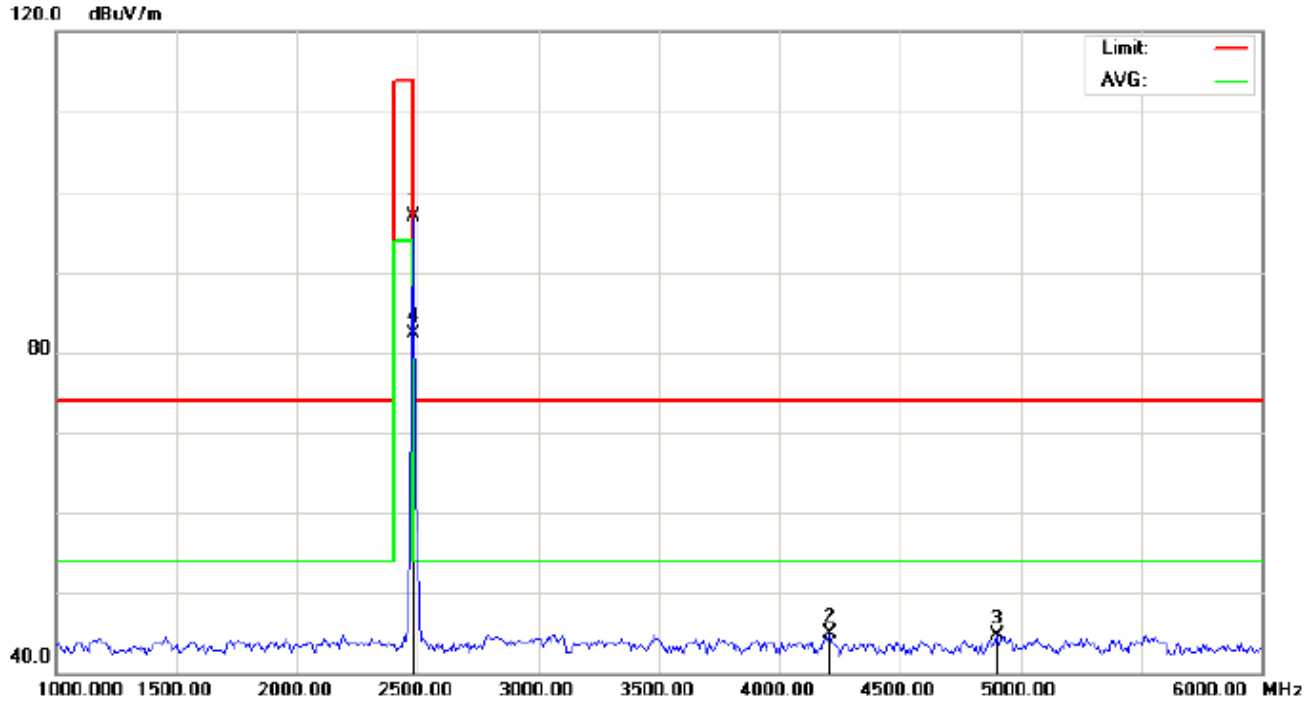
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	107.21	-9.64	97.57	114.00	-16.43	peak			
2		3850.000	50.40	-5.73	44.67	74.00	-29.33	peak			
3		5200.000	46.94	-1.80	45.14	74.00	-28.86	peak			
4	*	2440.000	93.13	-9.64	83.49	94.00	-10.51	AVG	100	241	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

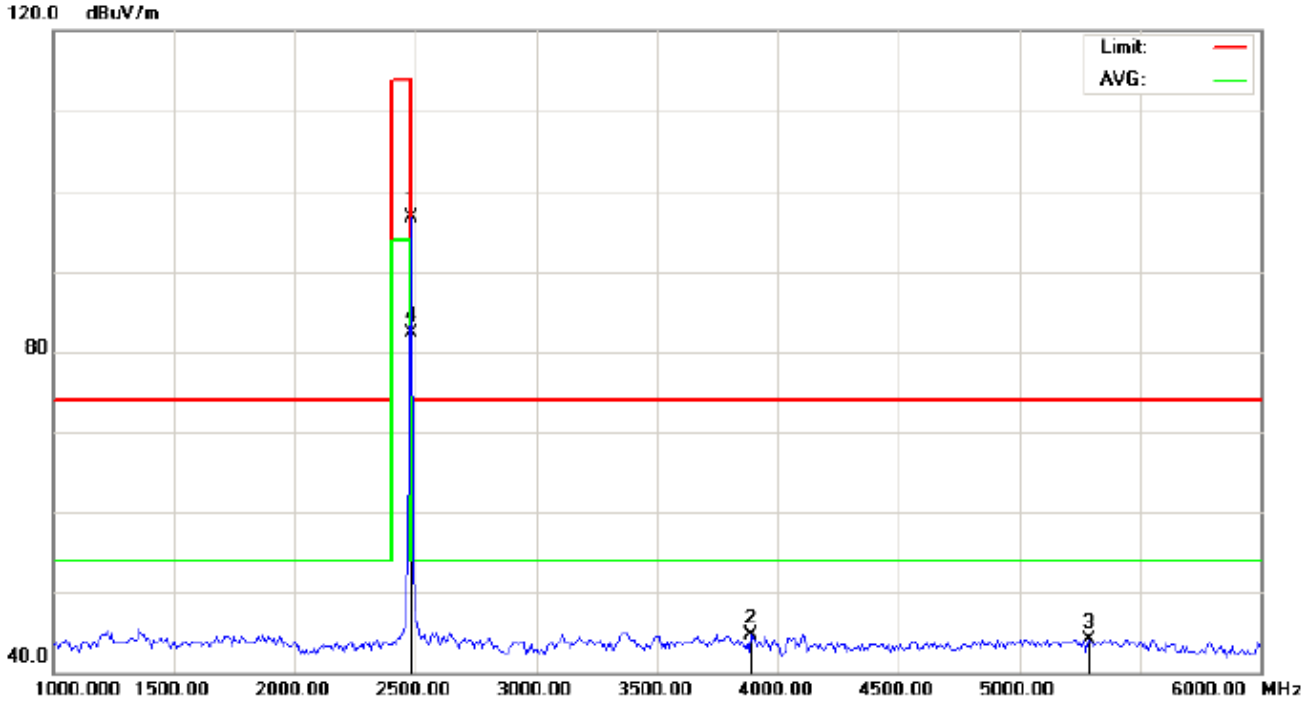
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	106.40	-9.59	96.81	114.00	-17.19	peak			
2		4208.333	49.04	-4.10	44.94	74.00	-29.06	peak			
3		4900.000	46.68	-2.06	44.62	74.00	-29.38	peak			
4	*	2480.000	91.97	-9.59	82.38	94.00	-11.62	AVG	100	235	

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	106.36	-9.59	96.77	114.00	-17.23	peak			
2		3891.667	50.21	-5.48	44.73	74.00	-29.27	peak			
3		5291.667	45.90	-1.81	44.09	74.00	-29.91	peak			
4	*	2480.000	91.95	-9.59	82.36	94.00	-11.64	AVG	100	75	

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

Field strength of the fundamental signal

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	105.69	-9.68	96.01	114.00	-17.99	Horizontal
2402	105.26	-9.68	95.58	114.00	-18.42	Vertical
2440	107.28	-9.64	97.64	114.00	-16.36	Horizontal
2440	107.21	-9.64	97.57	114.00	-16.43	Vertical
2480	106.40	-9.59	96.81	114.00	-17.19	Horizontal
2480	106.36	-9.59	96.77	114.00	-11.64	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	91.83	-9.68	82.15	94.00	-11.86	Horizontal
2402	91.65	-9.68	81.97	94.00	-12.03	Vertical
2440	93.26	-9.64	83.62	94.00	-10.38	Horizontal
2440	93.13	-9.64	83.49	94.00	-10.51	Vertical
2480	91.97	-9.59	82.38	94.00	-11.62	Horizontal
2480	91.95	-9.59	82.36	94.00	-11.64	Vertical

9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

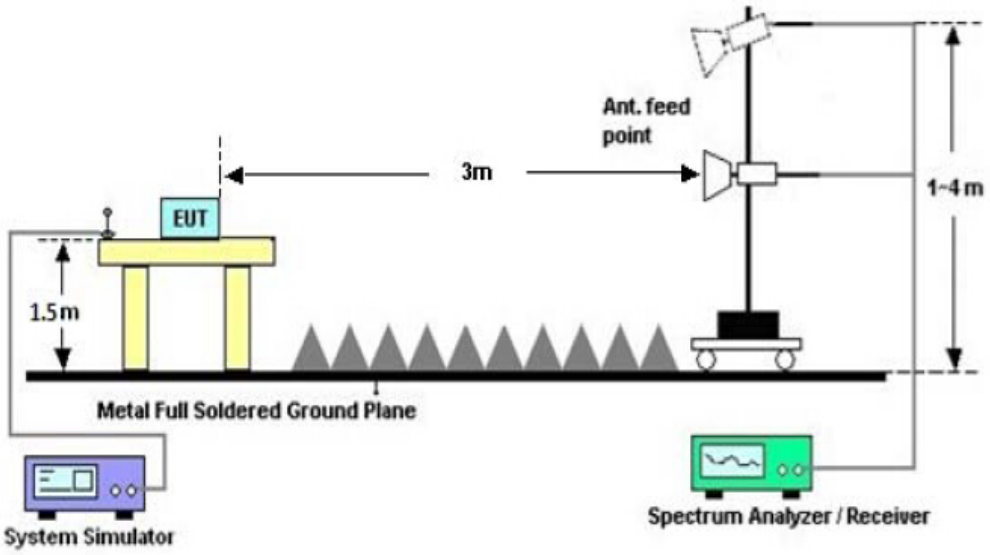
1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission

9.2 TEST SETUP

RADIATED EMISSION TEST SETUP

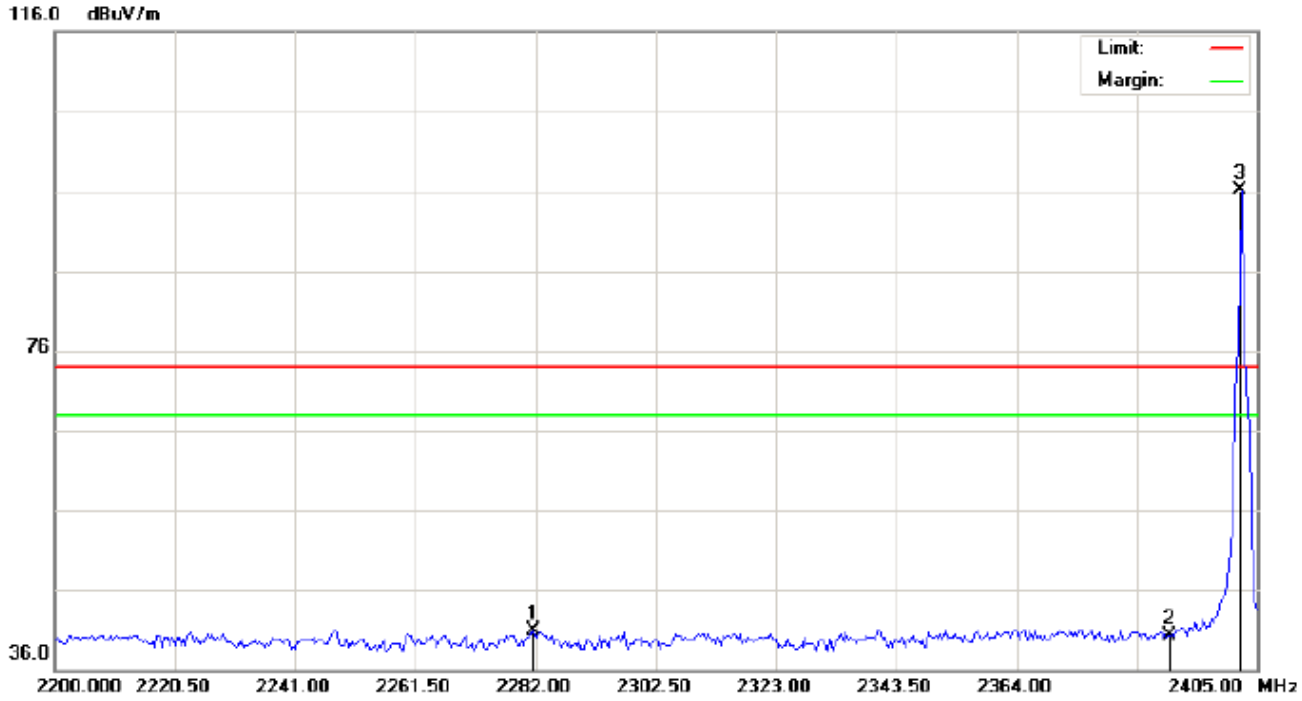


9.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



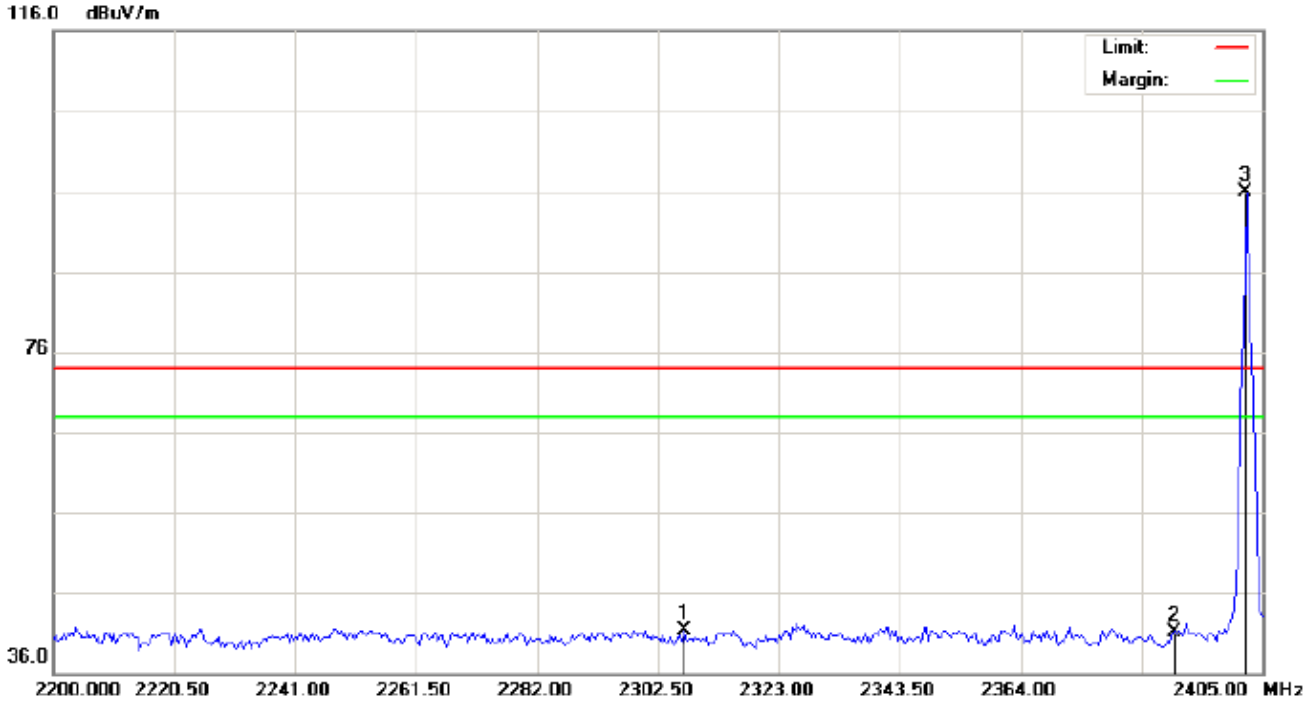
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Horizontal*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2281.658	30.70	10.19	40.89	74.00	-33.11	peak			
2		2390.000	30.00	10.31	40.31	74.00	-33.69	peak			
3	*	2402.000	85.72	10.32	96.04	74.00	22.04	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



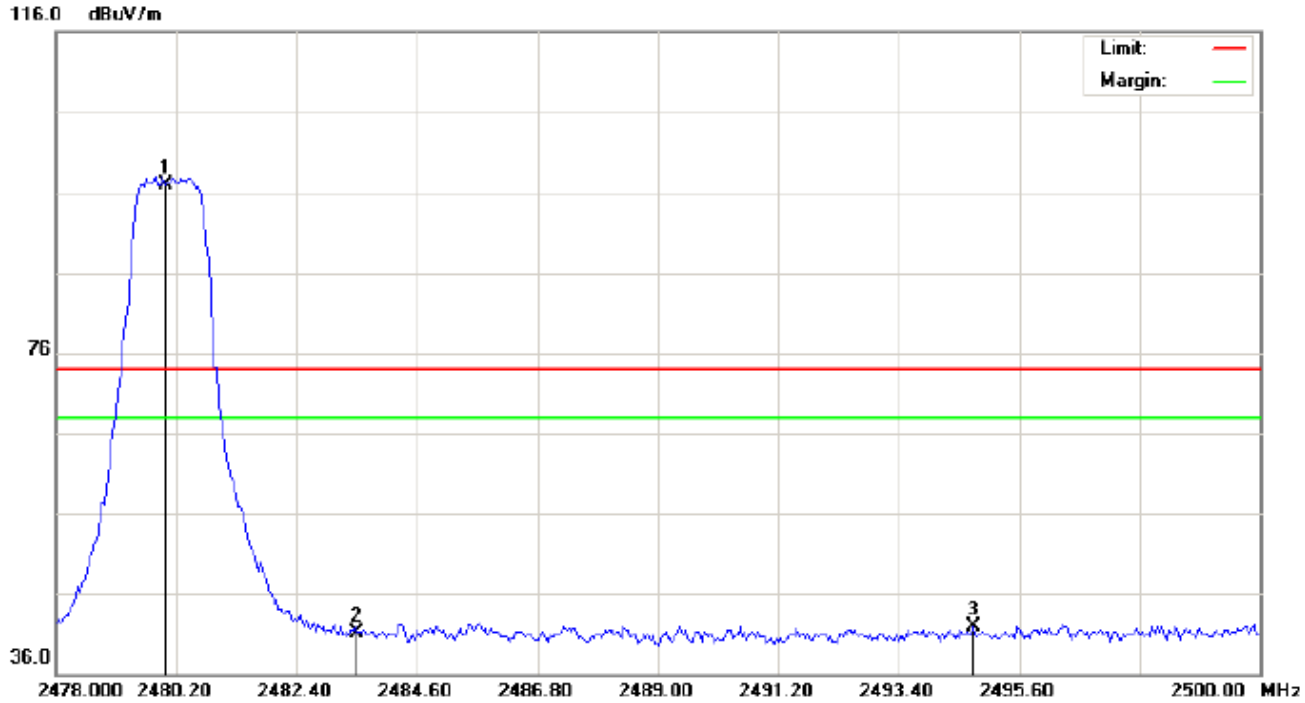
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2306.942	31.05	10.22	41.27	74.00	-32.73	peak			
2		2390.000	30.71	10.31	41.02	74.00	-32.98	peak			
3	*	2402.000	85.59	10.32	95.91	74.00	21.91	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



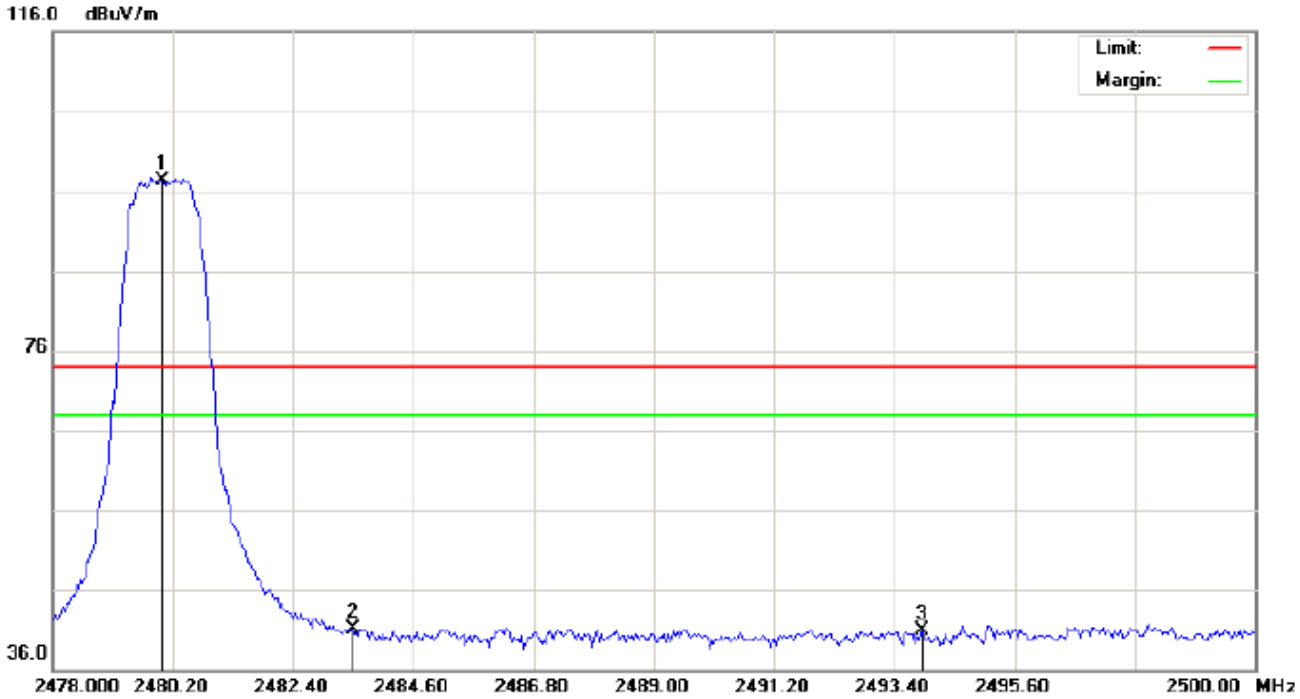
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Horizontal*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.55	10.41	96.96	74.00	22.96	peak			
2		2483.500	30.69	10.41	41.10	74.00	-32.90	peak			
3		2494.757	31.41	10.42	41.83	74.00	-32.17	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.82	10.41	97.23	74.00	23.23	peak			
2		2483.500	30.76	10.41	41.17	74.00	-32.83	peak			
3		2493.913	30.44	10.42	40.86	74.00	-33.14	peak			

RESULT: PASS

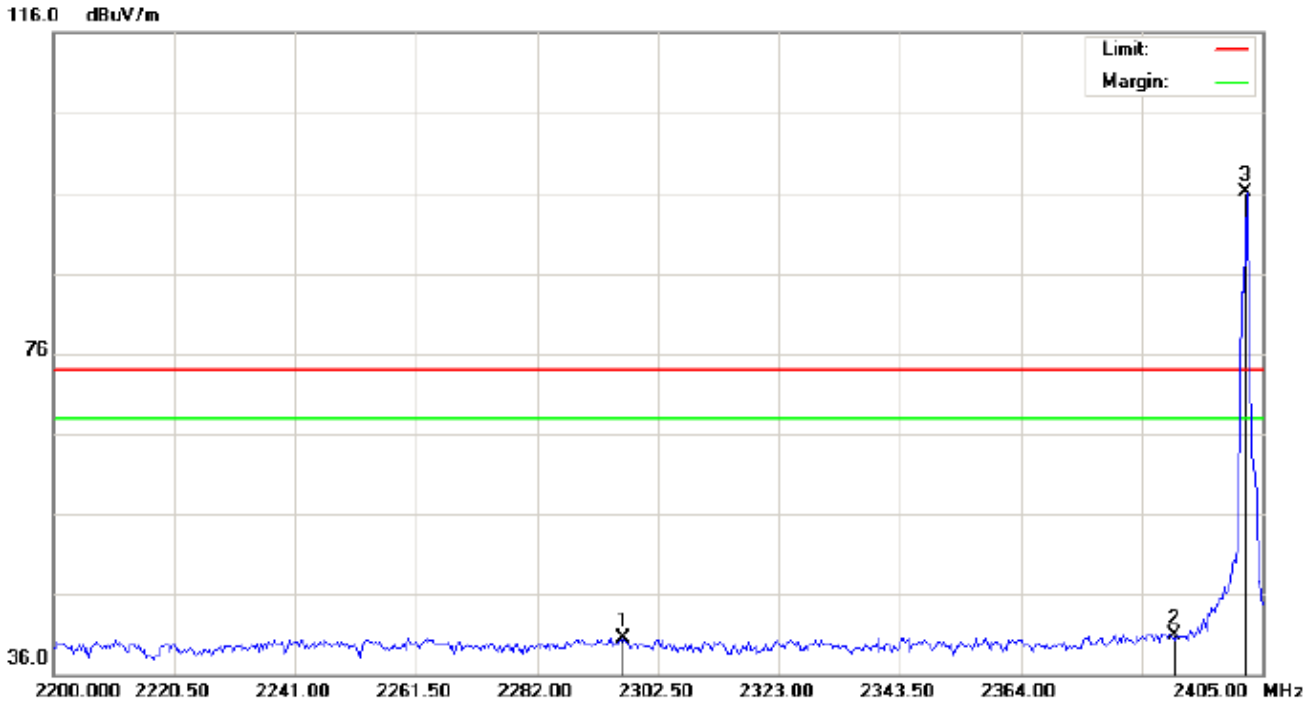
Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

FOR BLE

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



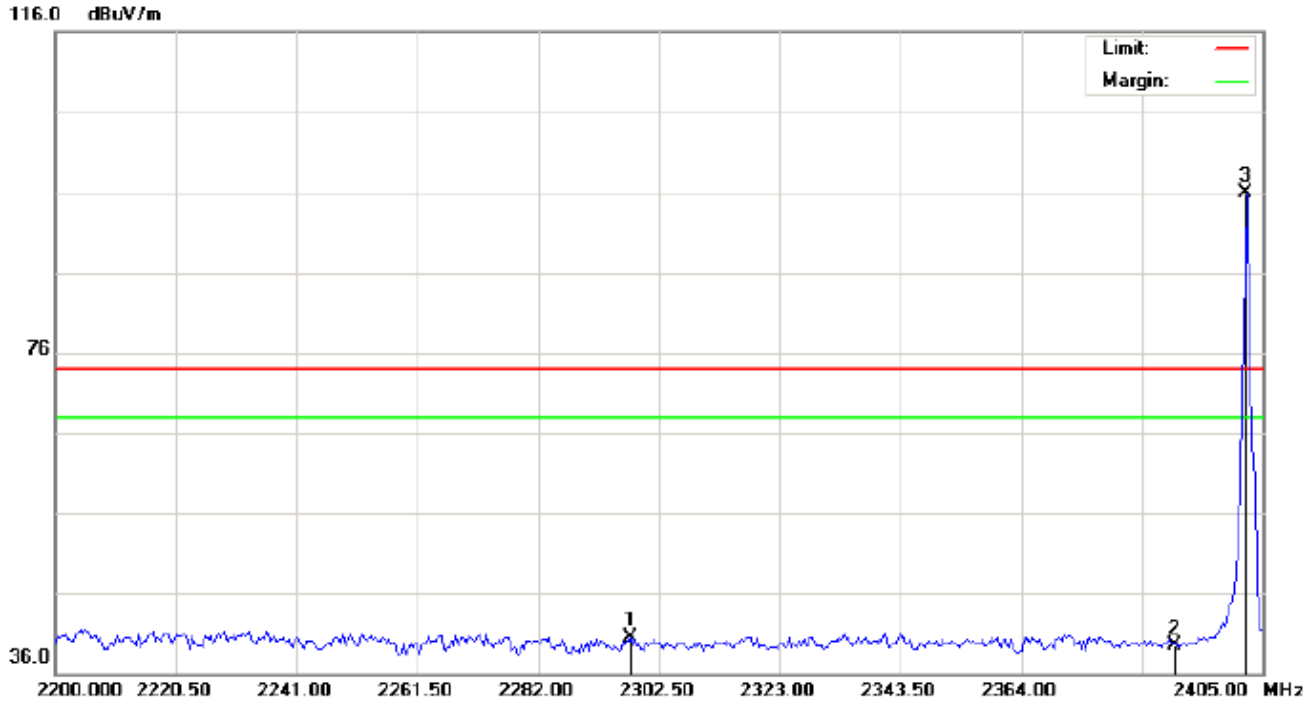
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Horizontal*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2296.692	30.21	10.21	40.42	74.00	-33.58	peak			
2		2390.000	30.50	10.31	40.81	74.00	-33.19	peak			
3	*	2402.000	85.72	10.32	96.04	74.00	22.04	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



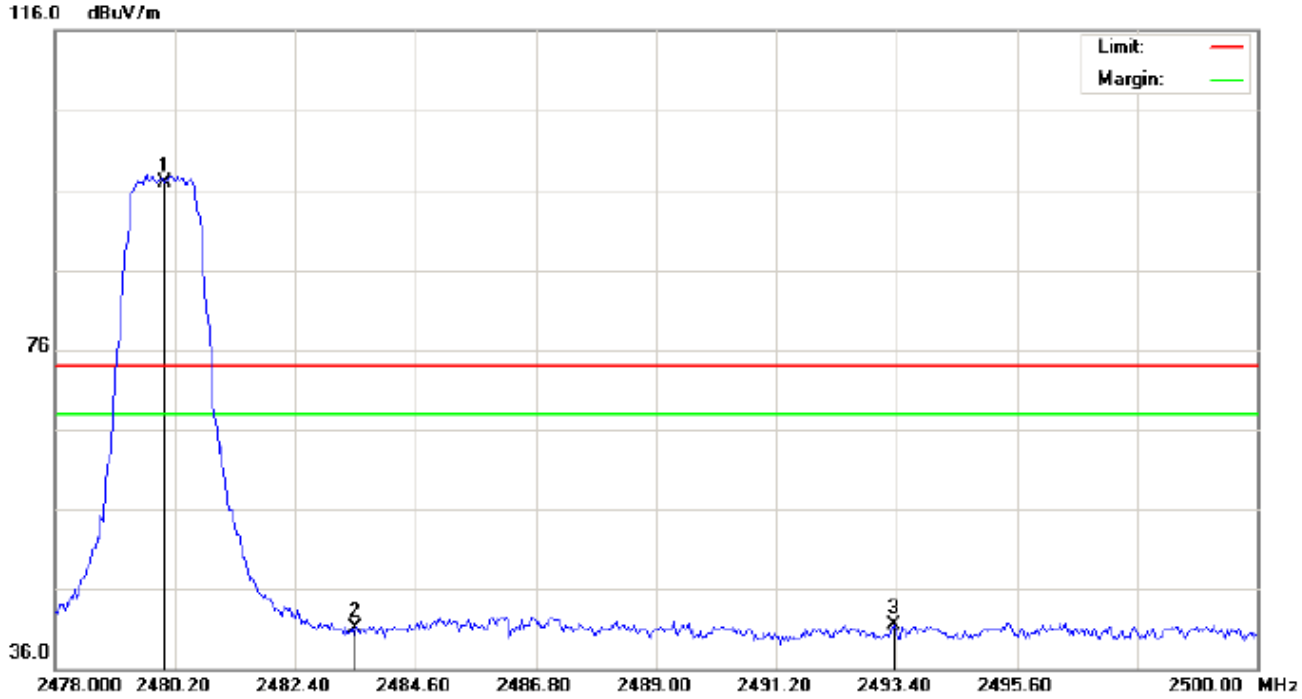
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2297.717	30.34	10.21	40.55	74.00	-33.45	peak			
2		2390.000	29.21	10.31	39.52	74.00	-34.48	peak			
3	*	2402.000	85.59	10.32	95.91	74.00	21.91	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



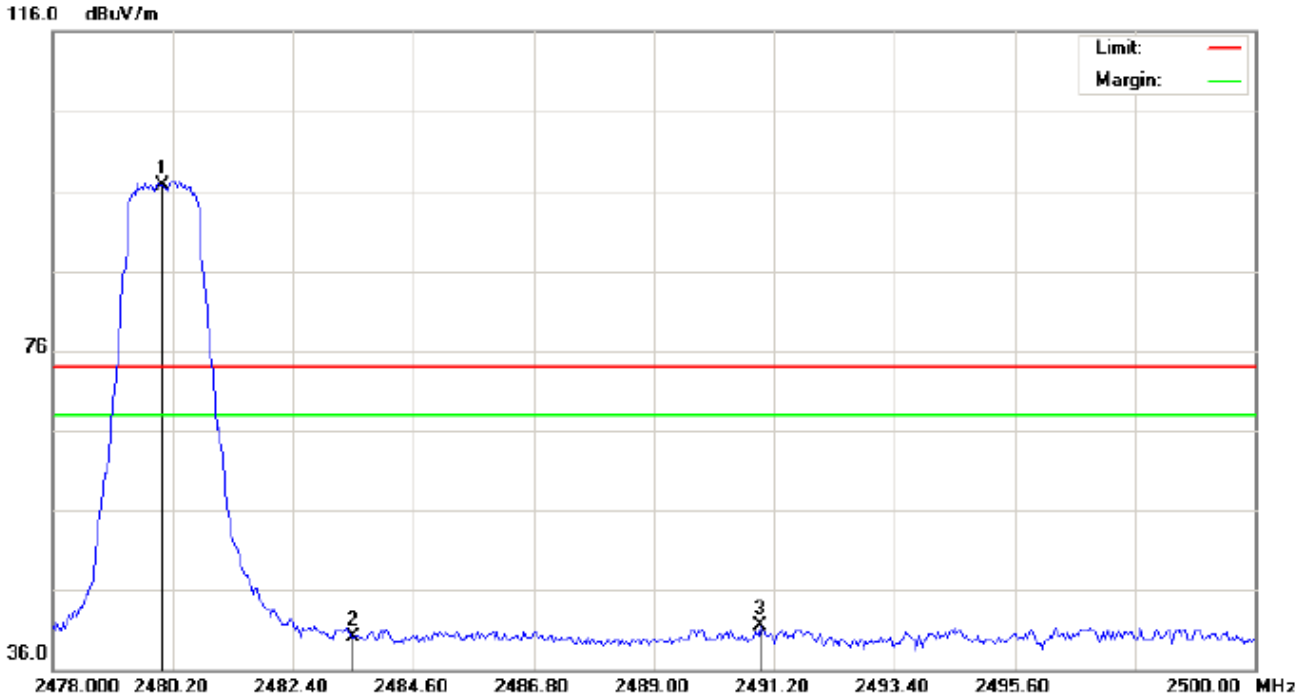
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Horizontal*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.55	10.41	96.96	74.00	22.96	peak			
2		2483.500	30.69	10.41	41.10	74.00	-32.90	peak			
3		2493.363	31.02	10.42	41.44	74.00	-32.56	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: BlueFit JAZZ 6
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.32	10.41	96.73	74.00	22.73	peak			
2		2483.500	29.76	10.41	40.17	74.00	-33.83	peak			
3		2490.943	31.06	10.42	41.48	74.00	-32.52	peak			

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

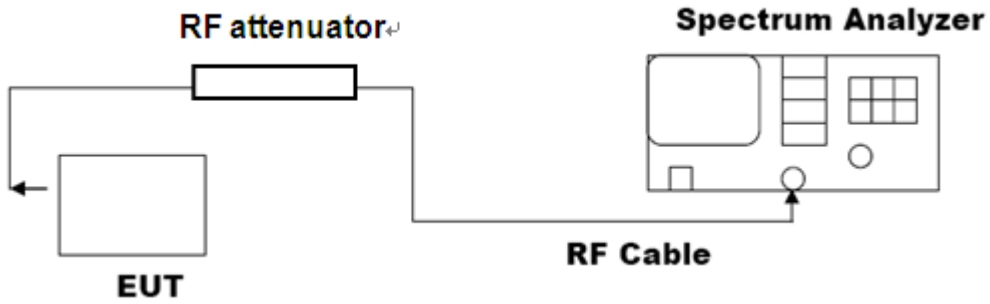
10. BANDWIDTH

10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
   RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



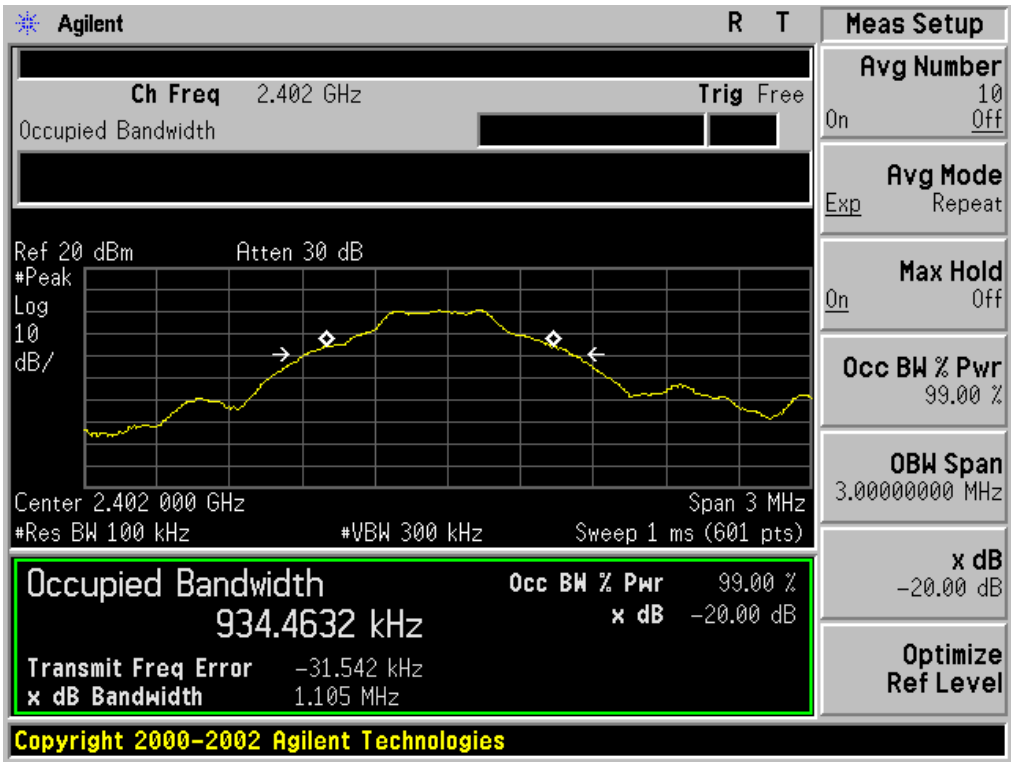
Note: The EUT has been used temporary antenna connector for testing.

10.3. LIMITS AND MEASUREMENT RESULTS

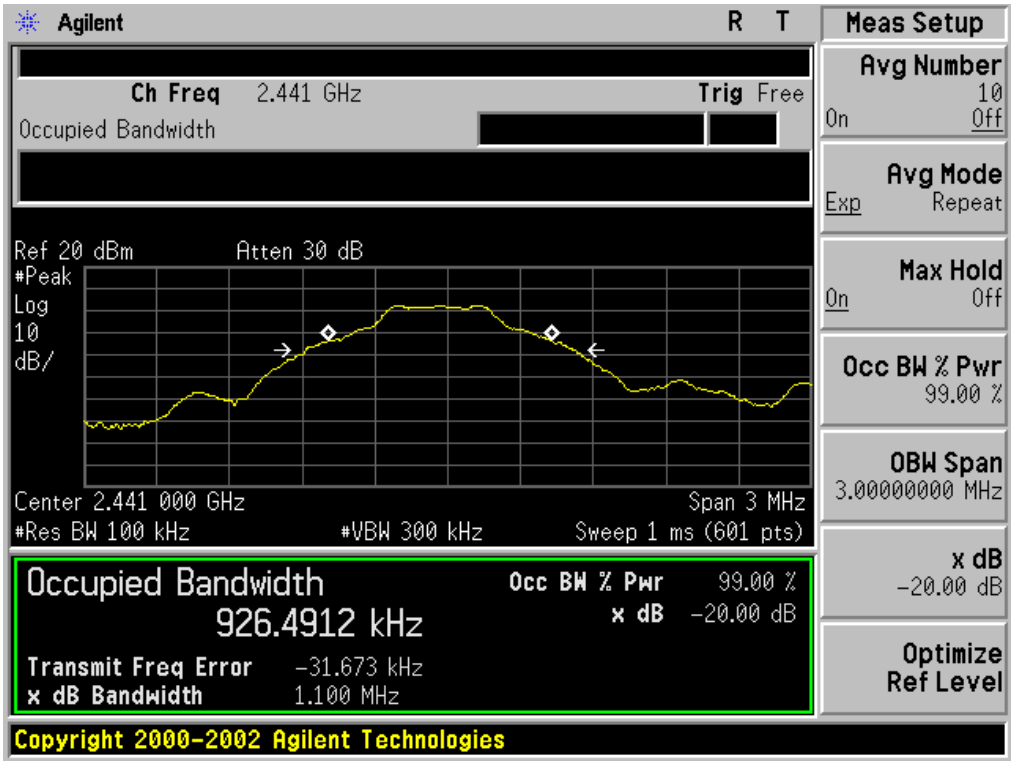
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	0.934	1.105	PASS
	Middle Channel	0.926	1.100	PASS
	High Channel	0.934	1.103	PASS

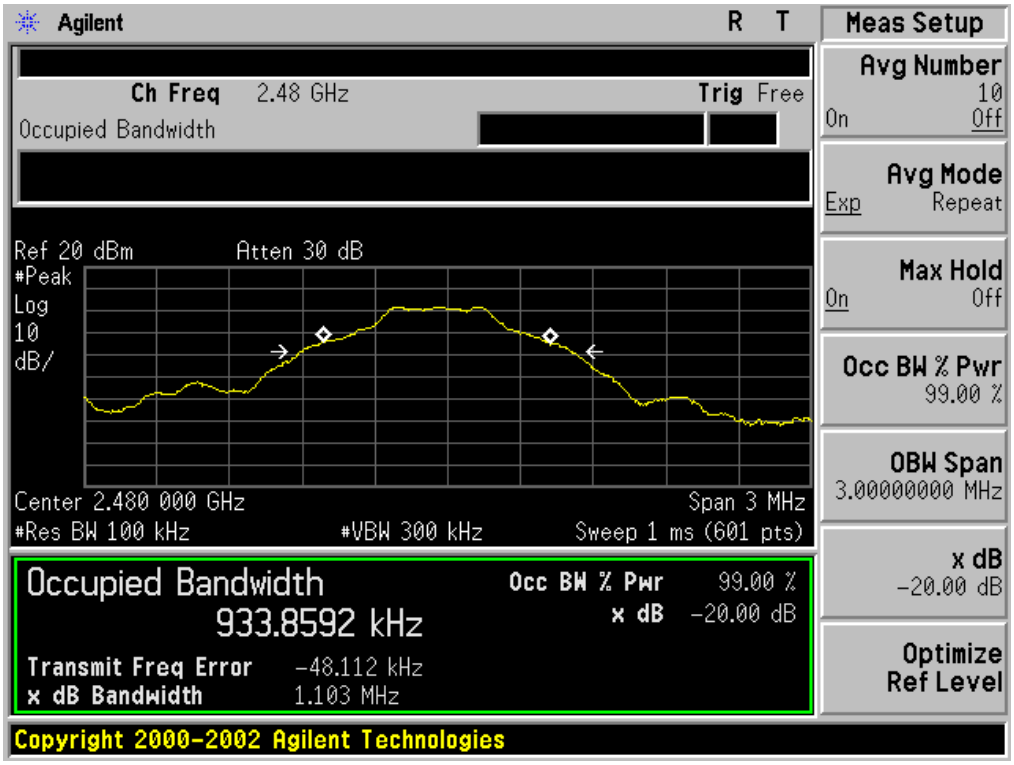
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

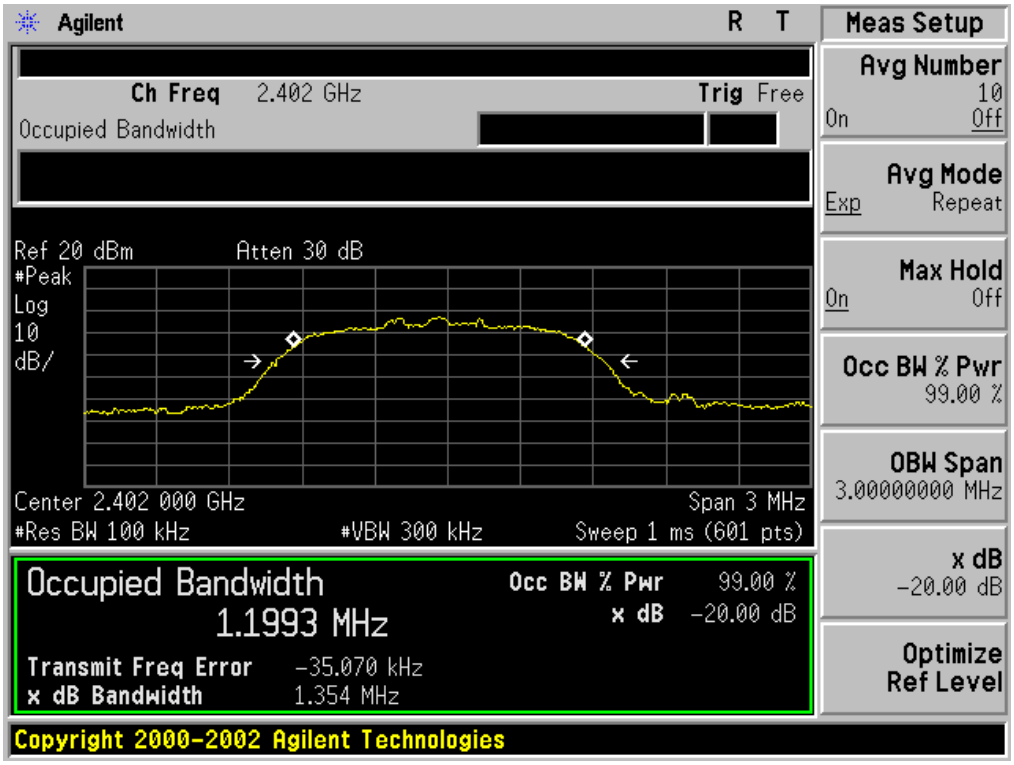


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

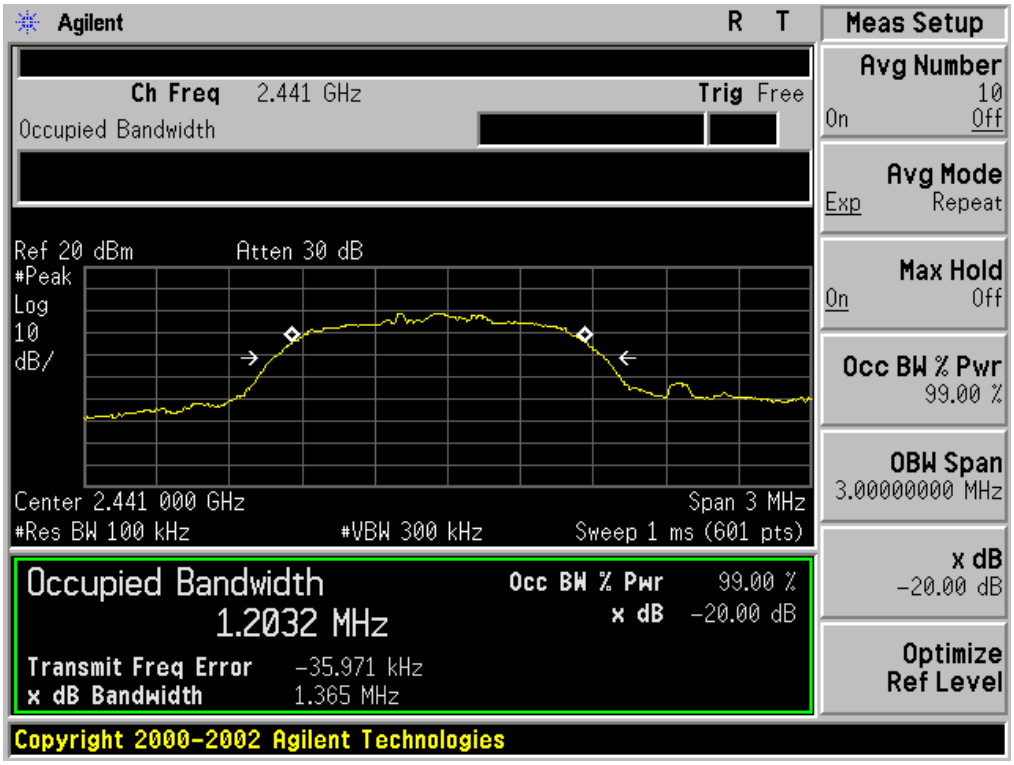


BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.199	1.354	PASS
	Middle Channel	1.203	1.365	PASS
	High Channel	1.185	1.353	PASS

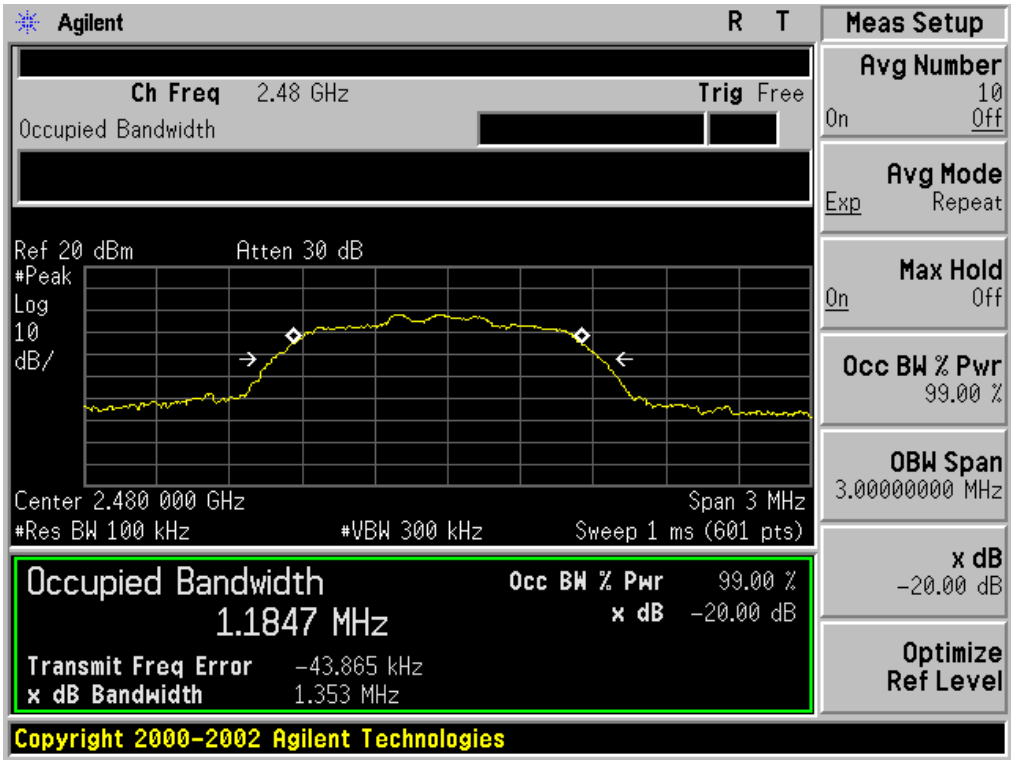
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

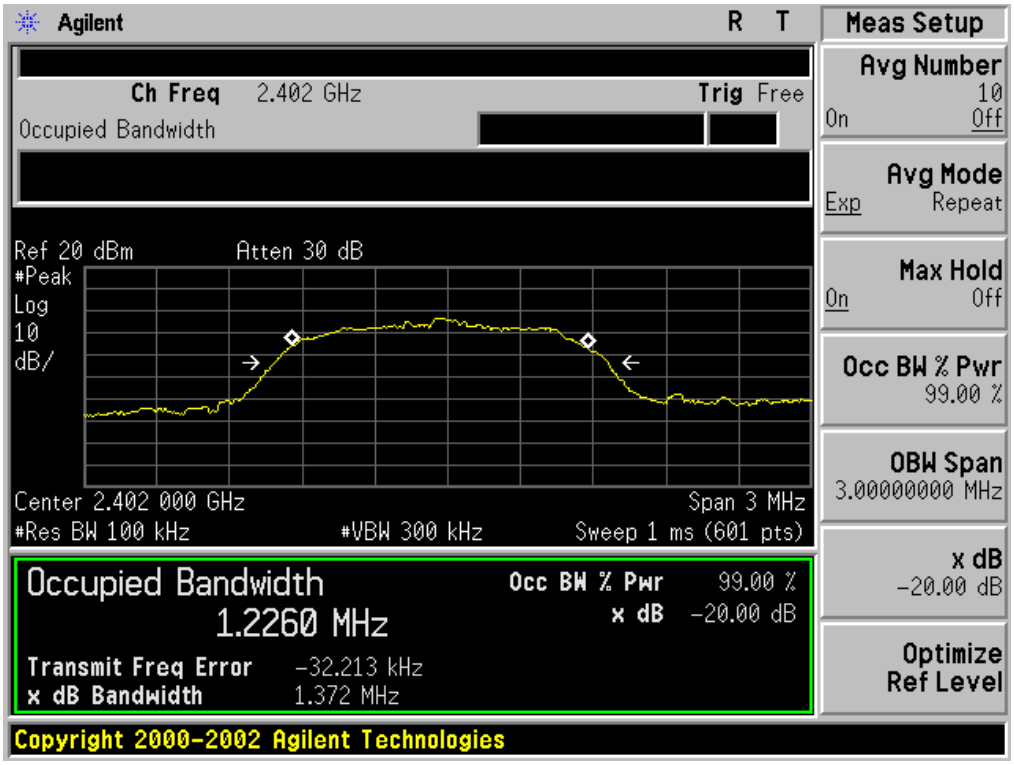


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

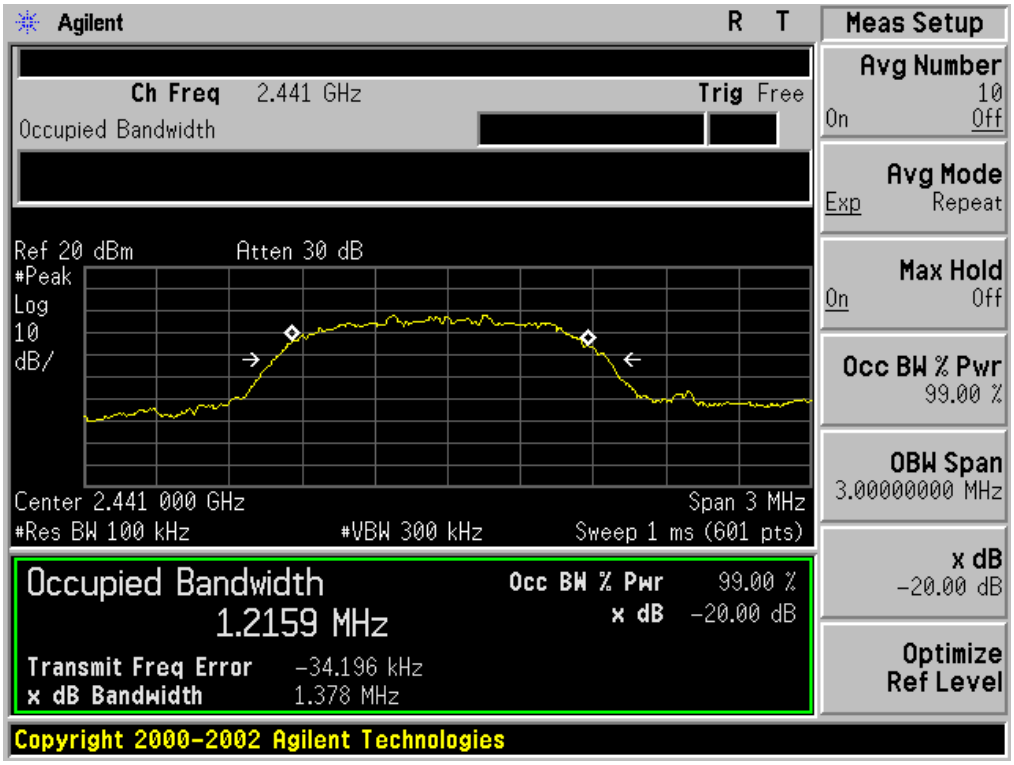


BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.226	1.372	PASS
	Middle Channel	1.216	1.378	PASS
	High Channel	1.208	1.359	PASS

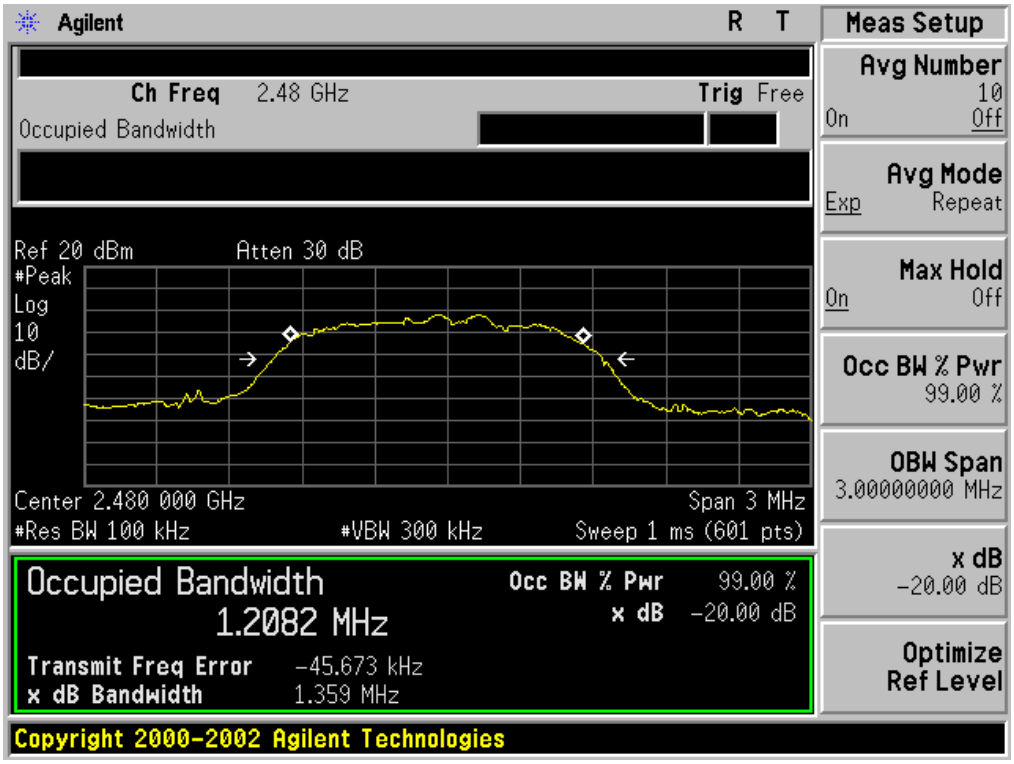
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



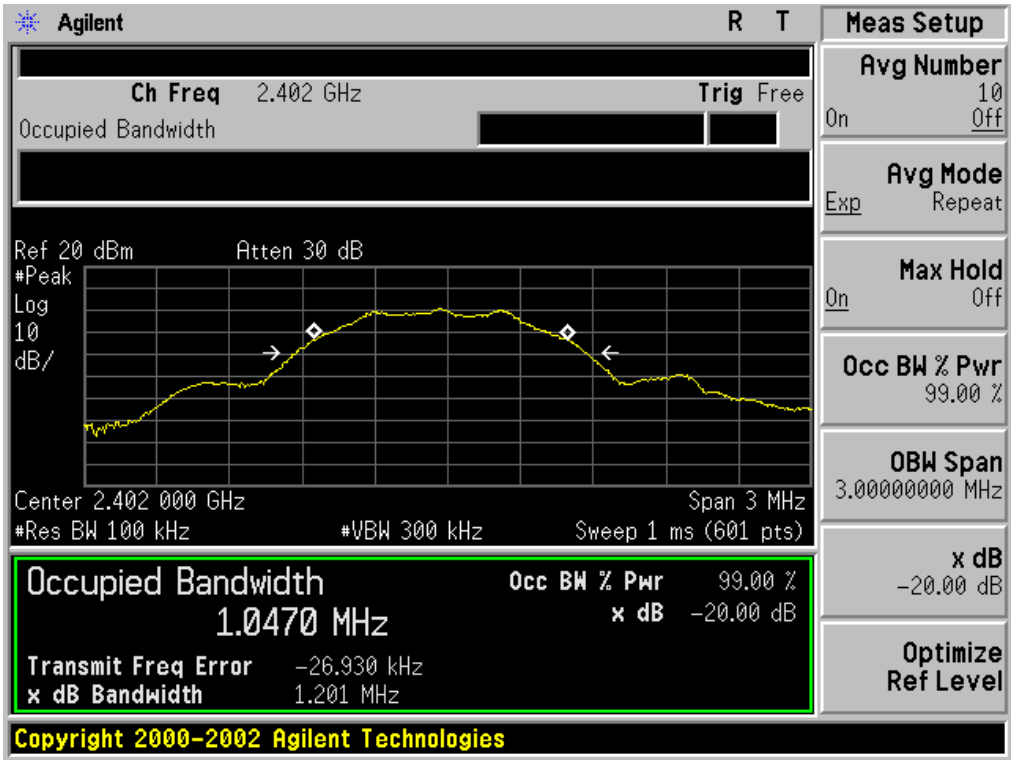
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



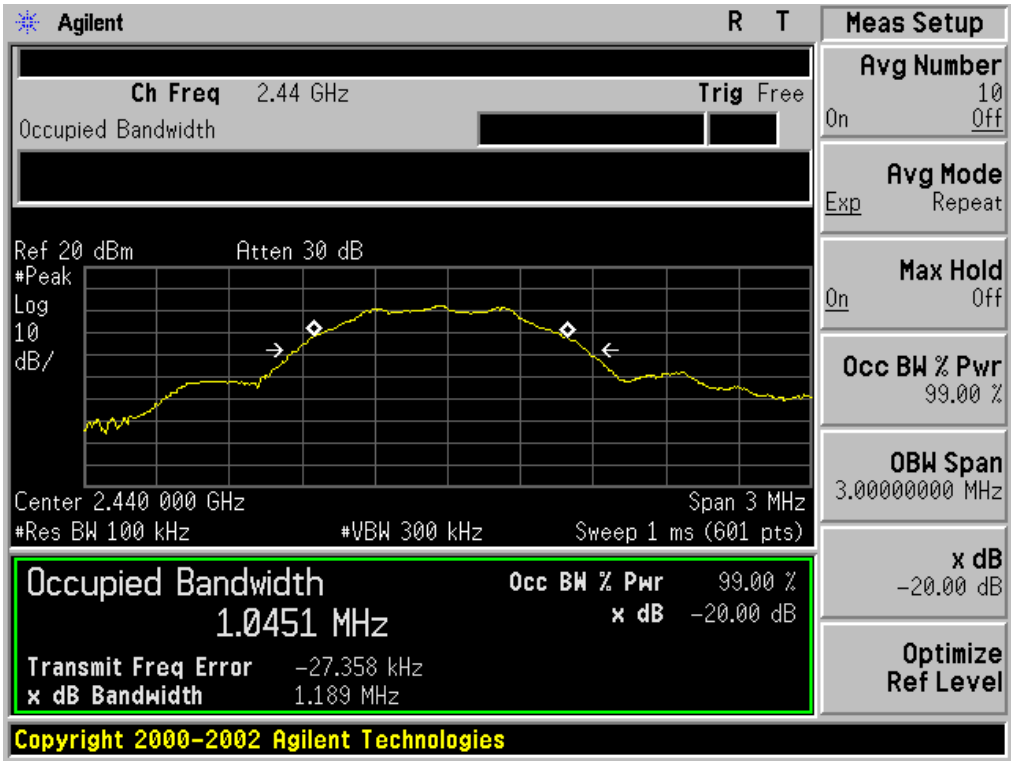
FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	**Measurement Result**			
	Test Data (MHz)			**Result**
		99%OBW (MHz)	**-20dB BW(MHz)**	
N/A	Low Channel	1.047	1.201	PASS
	Middle Channel	1.045	1.189	PASS
	High Channel	1.042	1.209	PASS

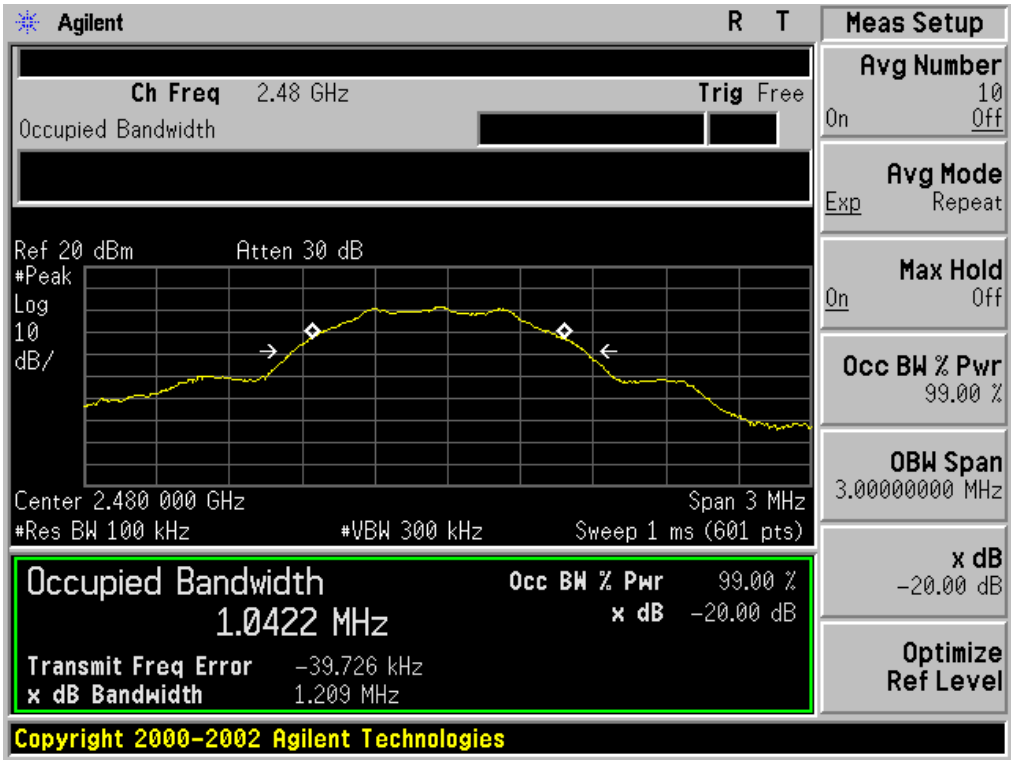
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



11. FCC LINE CONDUCTED EMISSION TEST

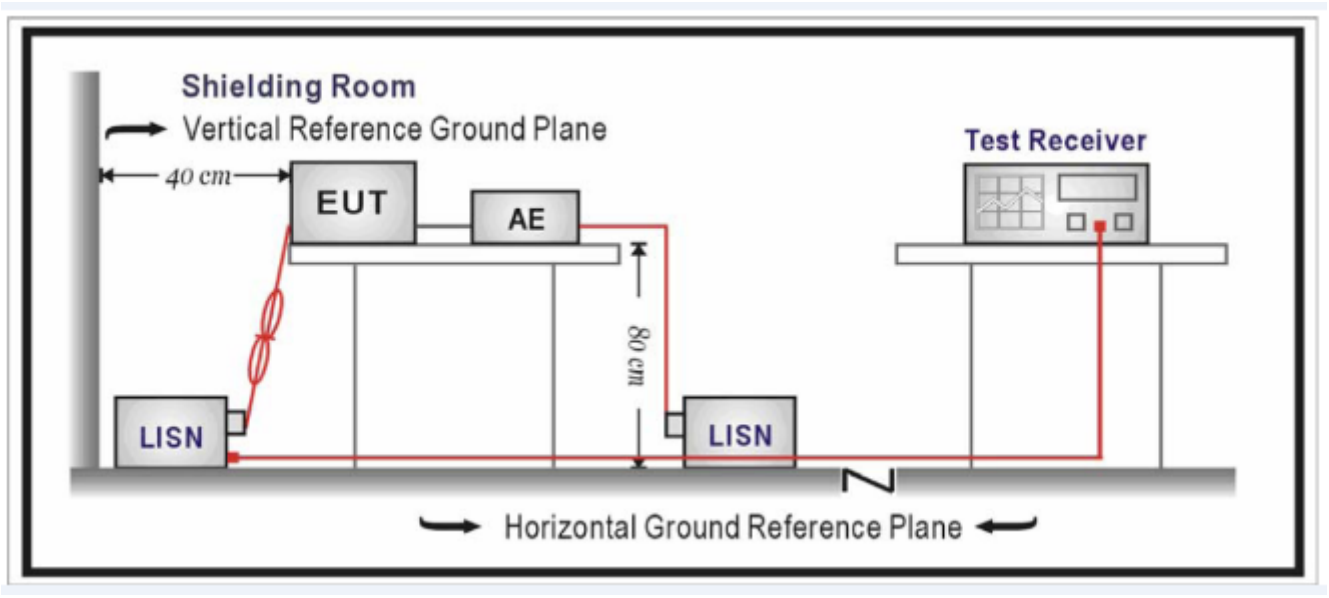
11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported .

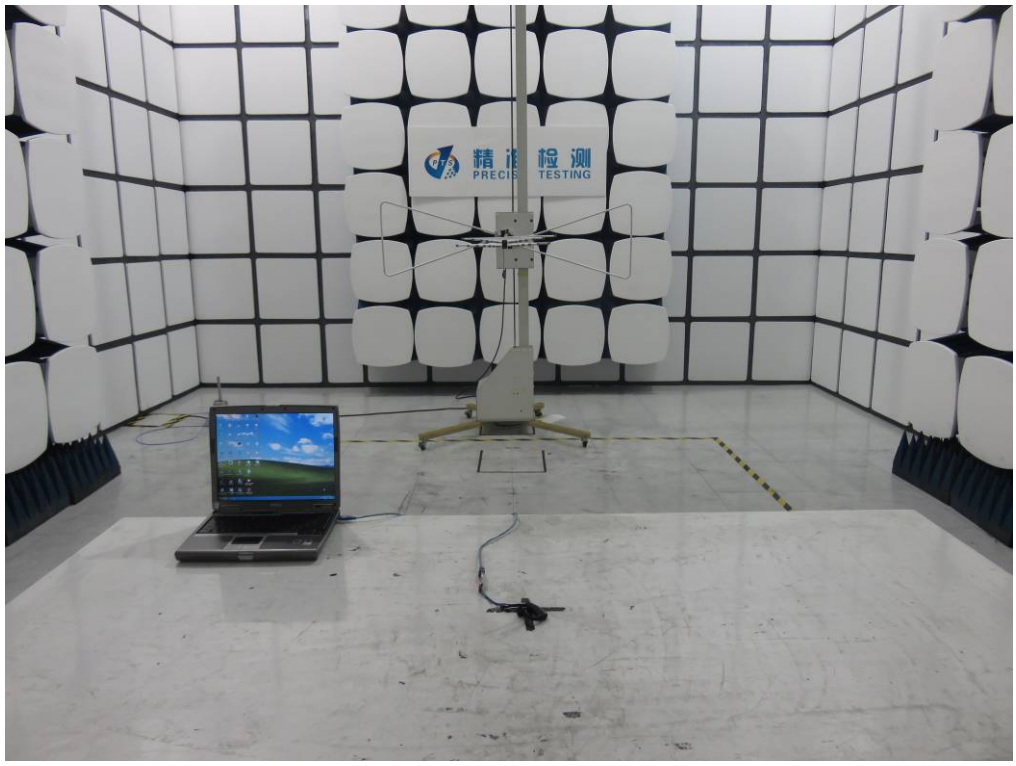
11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

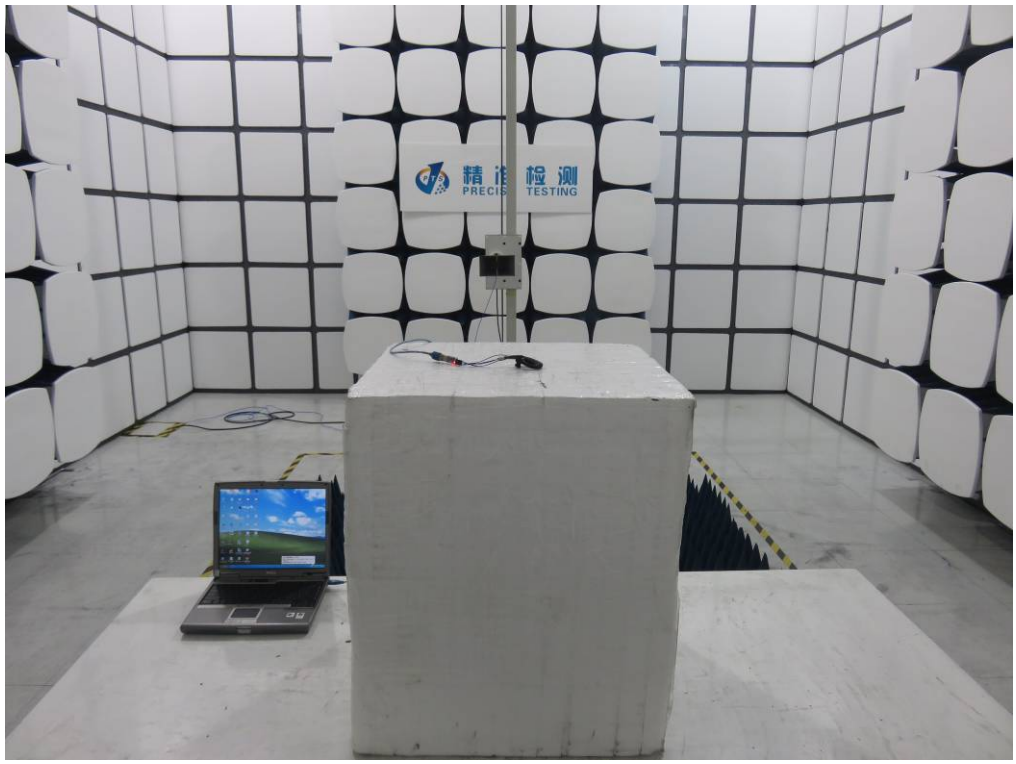
N/A

Note: The EUT doesn't work when charging.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT

TOP VIEW OF EUT

BOTTOM VIEW OF EUT

FRONT VIEW OF EUT

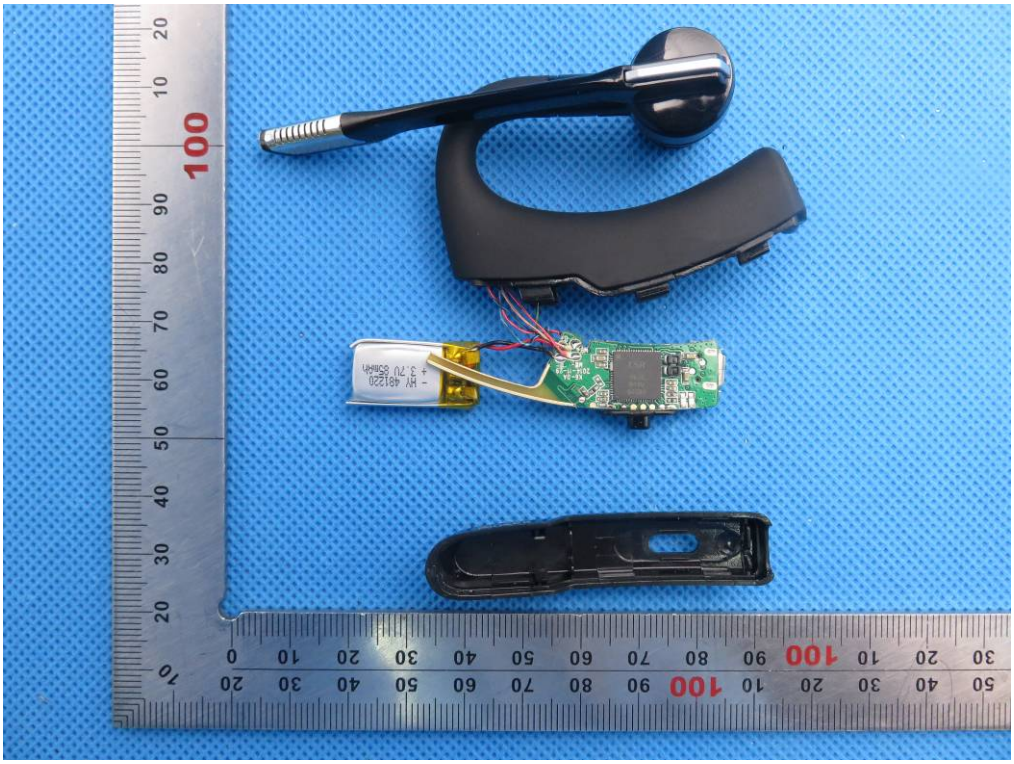
BACK VIEW OF EUT

LEFT VIEW OF EUT

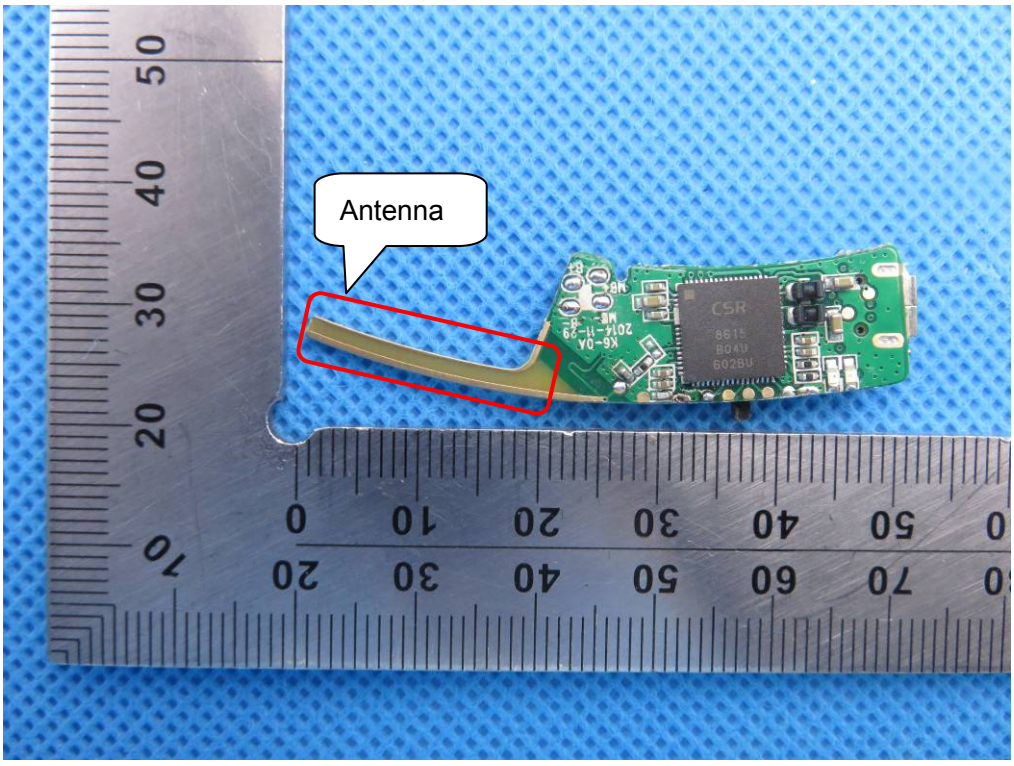
RIGHT VIEW OF EUT

VIEW OF EUT (PORT)

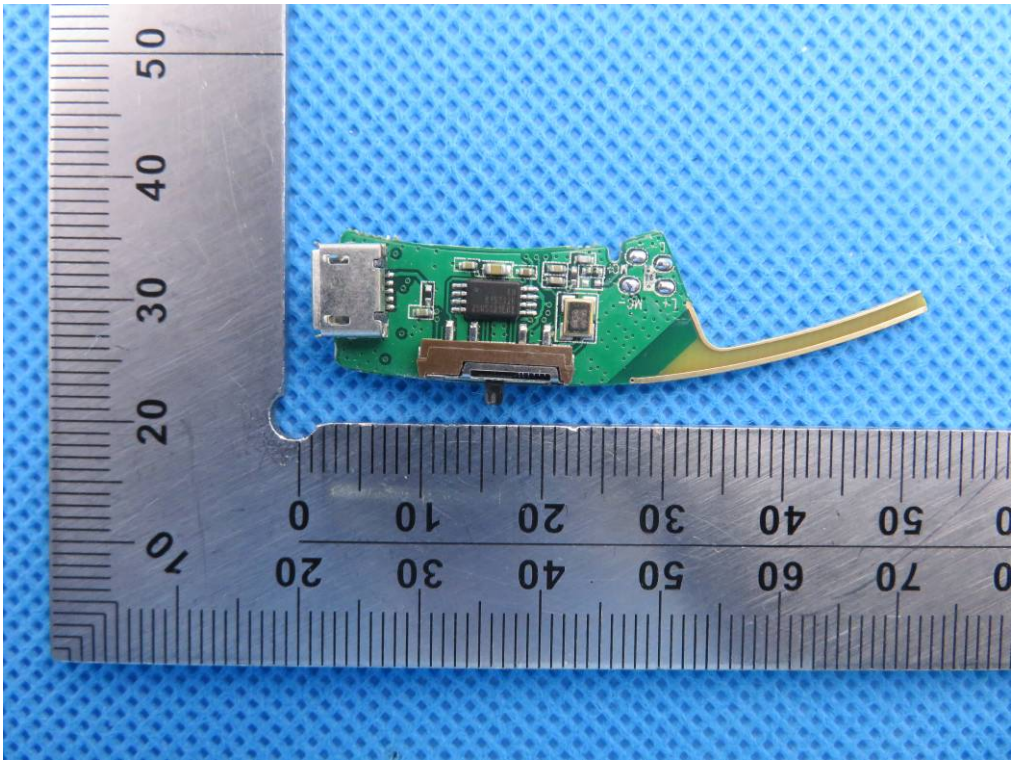
OPEN VIEW OF EUT



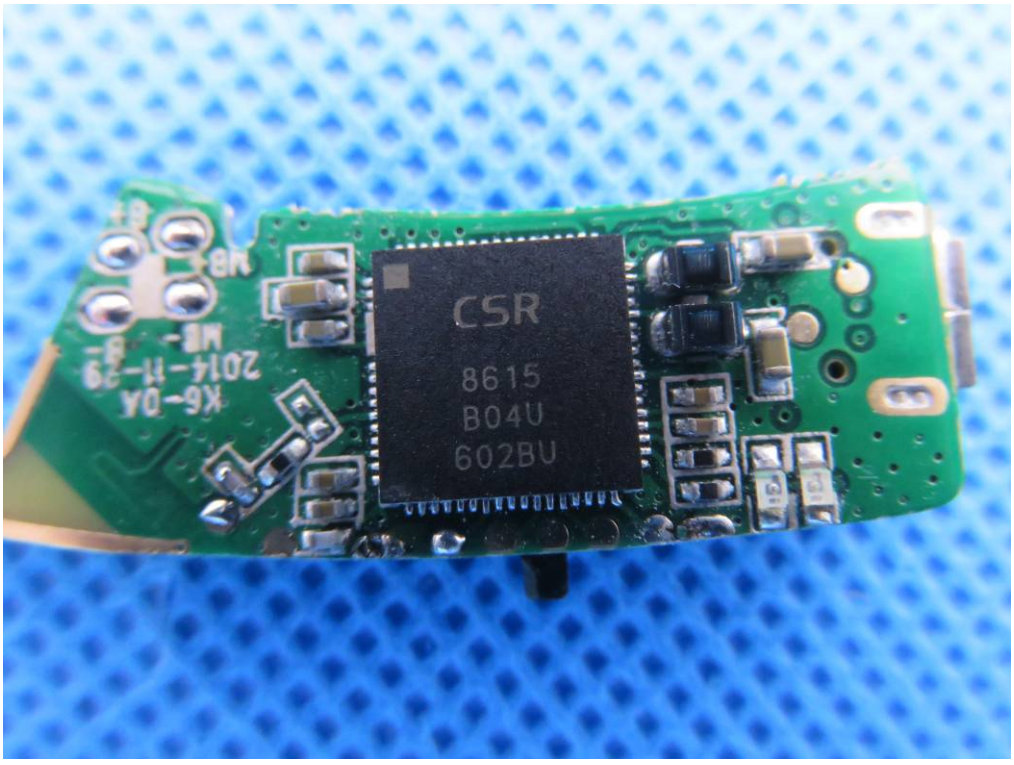
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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