FCC Test Report

Report No.: AGC00924160404FE03

FCC ID	:	QIFE07
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bluetooth Earphone
BRAND NAME	:	My Music
MODEL NAME	:	E07, E09, 3740STC, 3743STC
CLIENT	:	My Music Group Limited
DATE OF ISSUE	:	May 11, 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 11, 2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	My Music Group Limited
Address	Room No.2026, Global Logistics Service Center, China South City, Pinghu Town, Longgang, Shenzhen , China.
Manufacturer	Dongguan Fulun Electronic Co.,Limited
Address	4F,Building A,Huangjinye Industrial park,No.216Shaxin Road,KeyuanCity,Tangxia, Dongguan.CN
Product Designation	Bluetooth Earphone
Brand Name	My Music
Test Model	E07
Series Model	E09, 3740STC, 3743STC
Difference Declaration	All the same except for the model name
Date of test	May 03, 2016 to May 05, 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 — Time Huang(Huang Nanhui) May 11, 2016

Reviewed By Forrest Lei — Forrest Lei(Lei Yonggang) May 11, 2016

Approved By Solger Zhang — Solger Zhang(Zhang Hongyi) Authorized Officer May 11, 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	1.37dBm(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	2.0
Software Version	2.0
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery,DC5V by USB
Note: The USB port only used for charging and can't be used to transfer data with PC.	

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

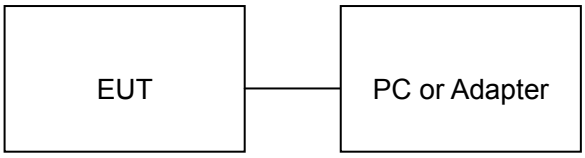
NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	BT Link with charging
5	Standby with charging

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 except for BT Link with charging,Standby with charging.
3.The EUT used fully-charged battery when tested.

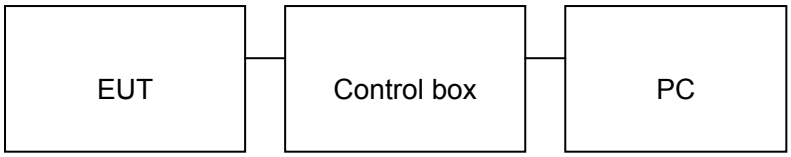
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Earphone	E07	FCC ID: QIFE07	EUT
2	PC	E1412AYCW	Sony	A.E
3	Control box	N/A	N/A	A.E
4	Adapter	ETPCA-050100U3W	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	Compliant
§15.215	BANDWIDTH	Compliant

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

Conducted 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
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 6,2015	June 5,2016
Conduction Cable	MXT	SE1	S003	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 dB μV = 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

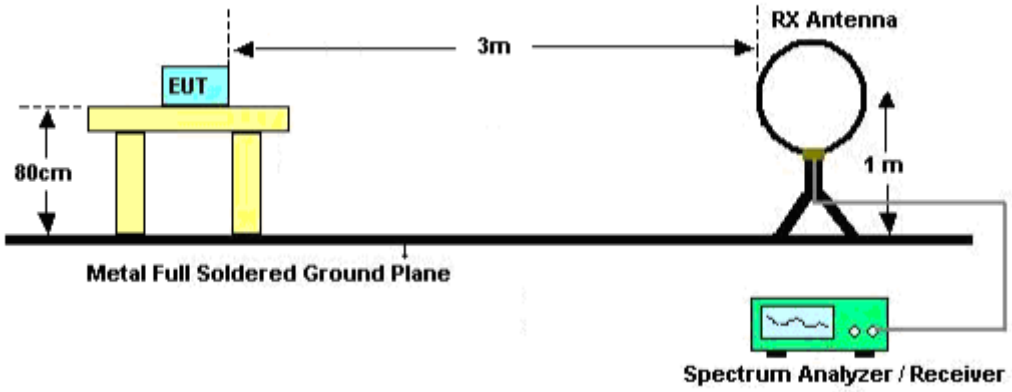
1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(below 1GHz)
2. The measuring distance of 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(Bleow 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.

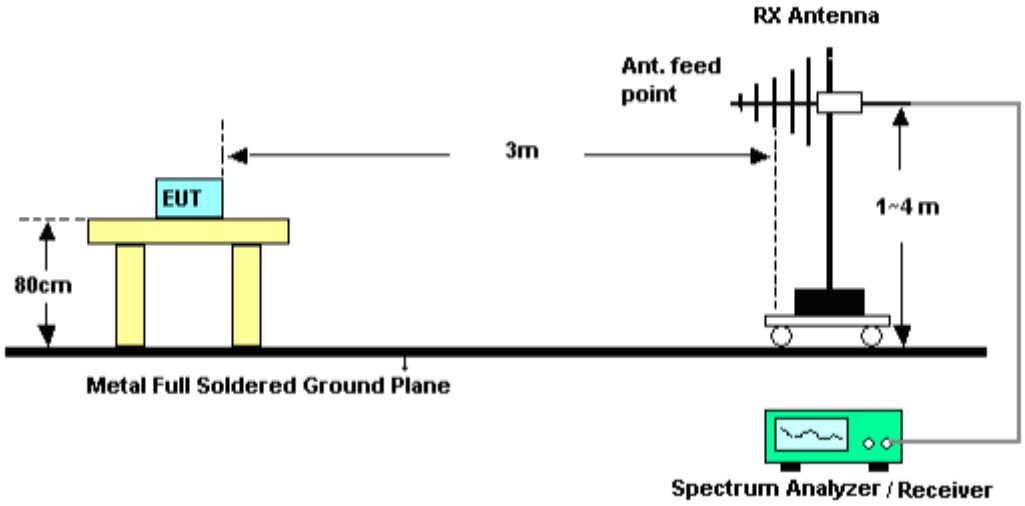
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average
Receiver Parameter	**Setting**
Start ~Stop Frequency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

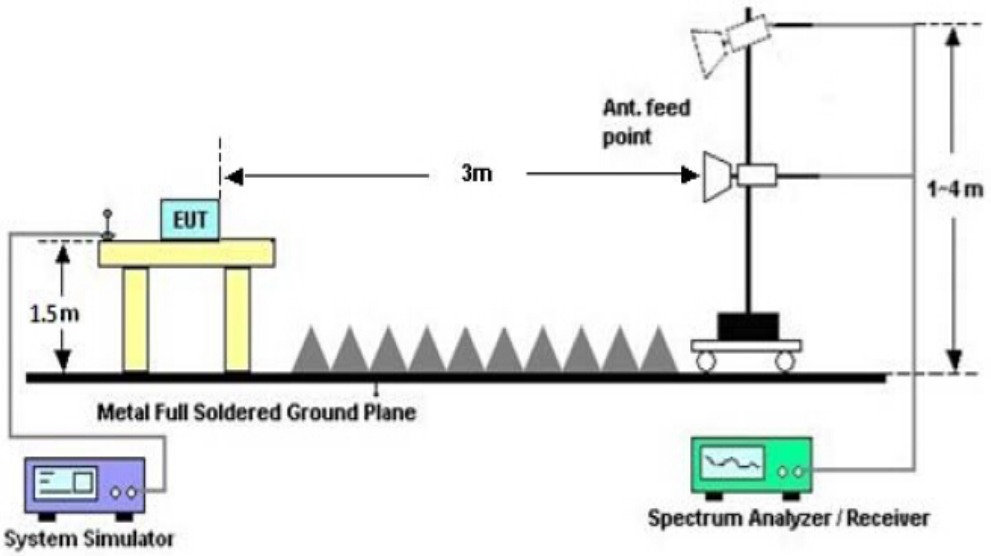
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



8.4. TEST RESULT

(Worst modulation:GFSK)

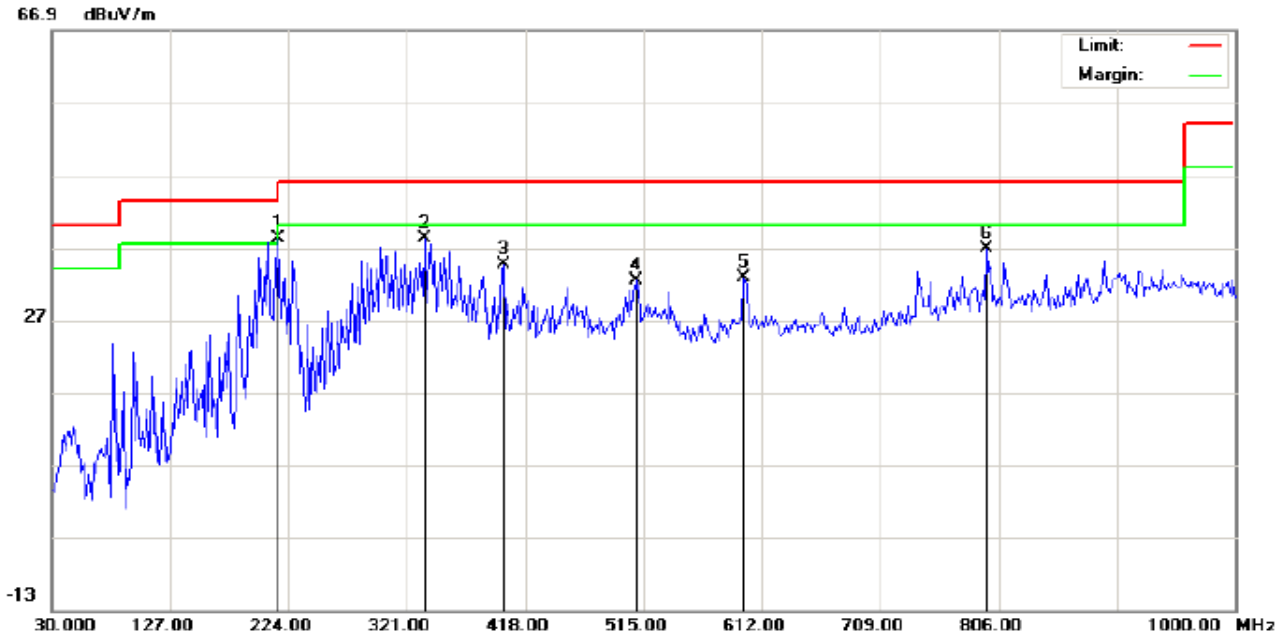
FOR BR/EDR

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 Earphone
M/N: E07
Mode: Low Channel TX
Note:

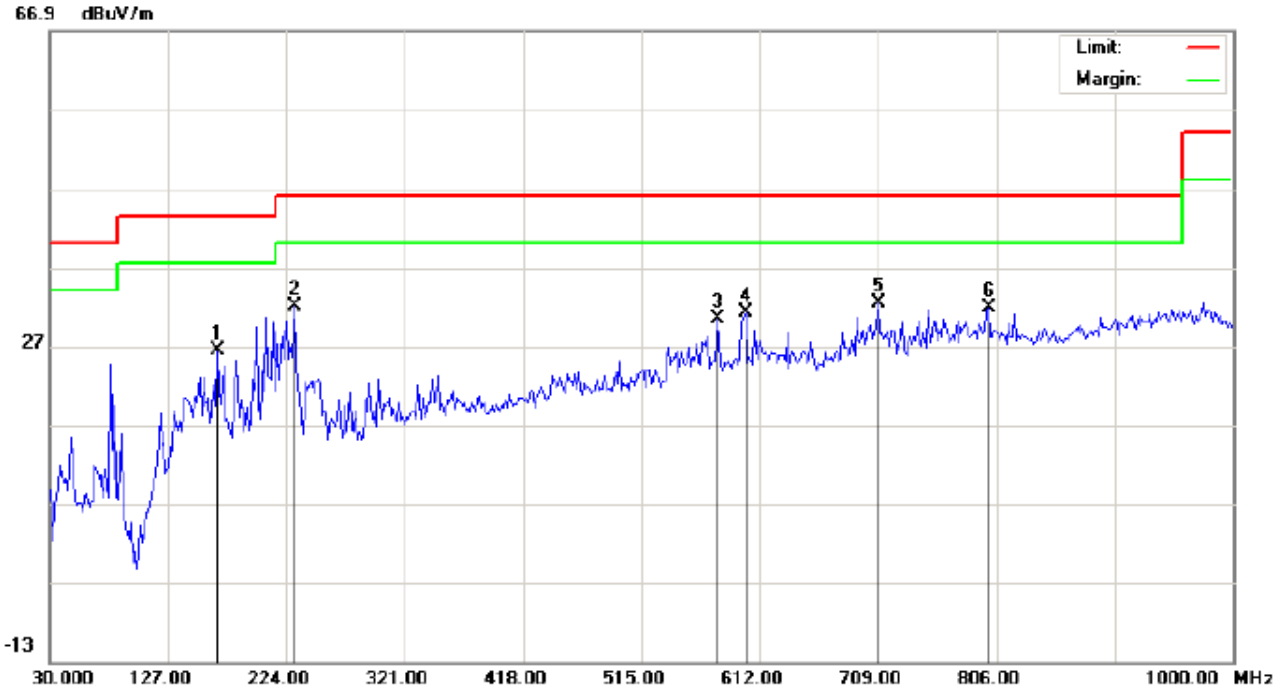
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	215.9167	27.74	10.38	38.12	43.50	-5.38	peak			
2		335.5500	20.45	17.78	38.23	46.00	-7.77	peak			
3		400.2167	15.47	19.08	34.55	46.00	-11.45	peak			
4		508.5333	11.06	21.36	32.42	46.00	-13.58	peak			
5		597.4500	9.13	23.67	32.80	46.00	-13.20	peak			
6		796.3000	9.44	27.27	36.71	46.00	-9.29	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

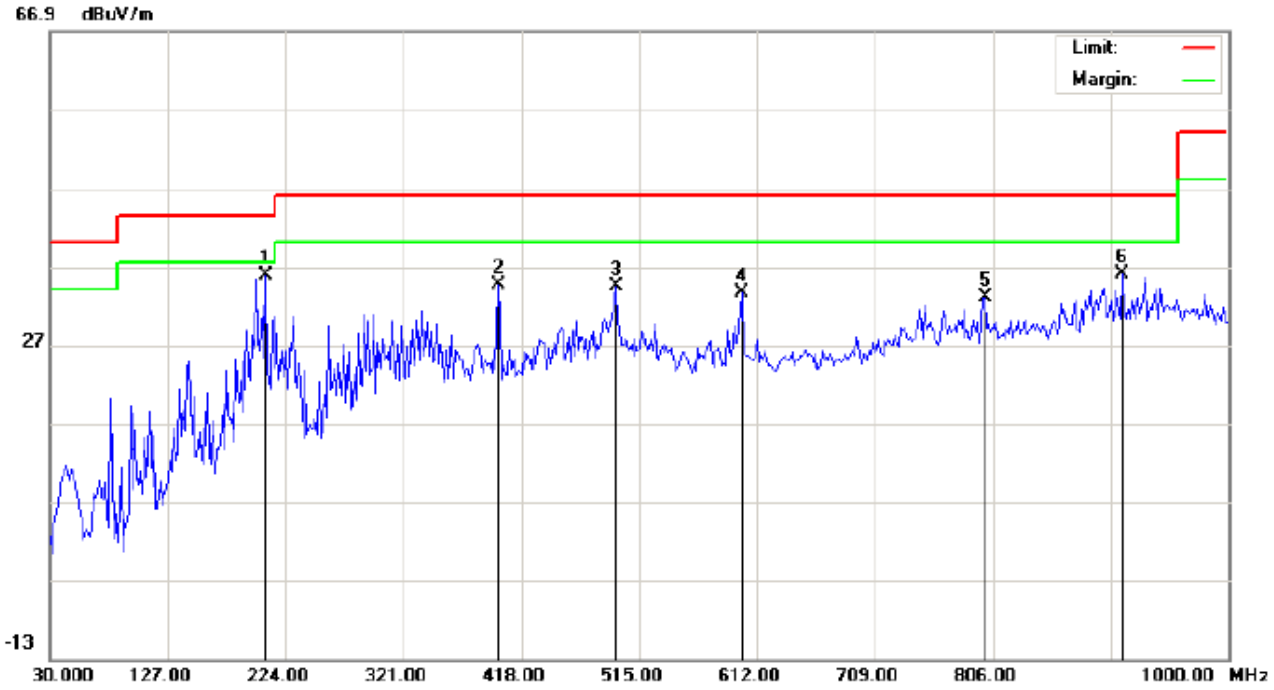
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		167.4167	11.55	14.86	26.41	43.50	-17.09	peak			
2		230.4667	20.09	11.99	32.08	46.00	-13.92	peak			
3		578.0500	7.73	22.62	30.35	46.00	-15.65	peak			
4		600.6833	8.51	22.75	31.26	46.00	-14.74	peak			
5	*	709.0000	7.03	25.45	32.48	46.00	-13.52	peak			
6		799.5333	4.57	27.31	31.88	46.00	-14.12	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 Earphone
M/N: E07
Mode: Middle Channel TX
Note:

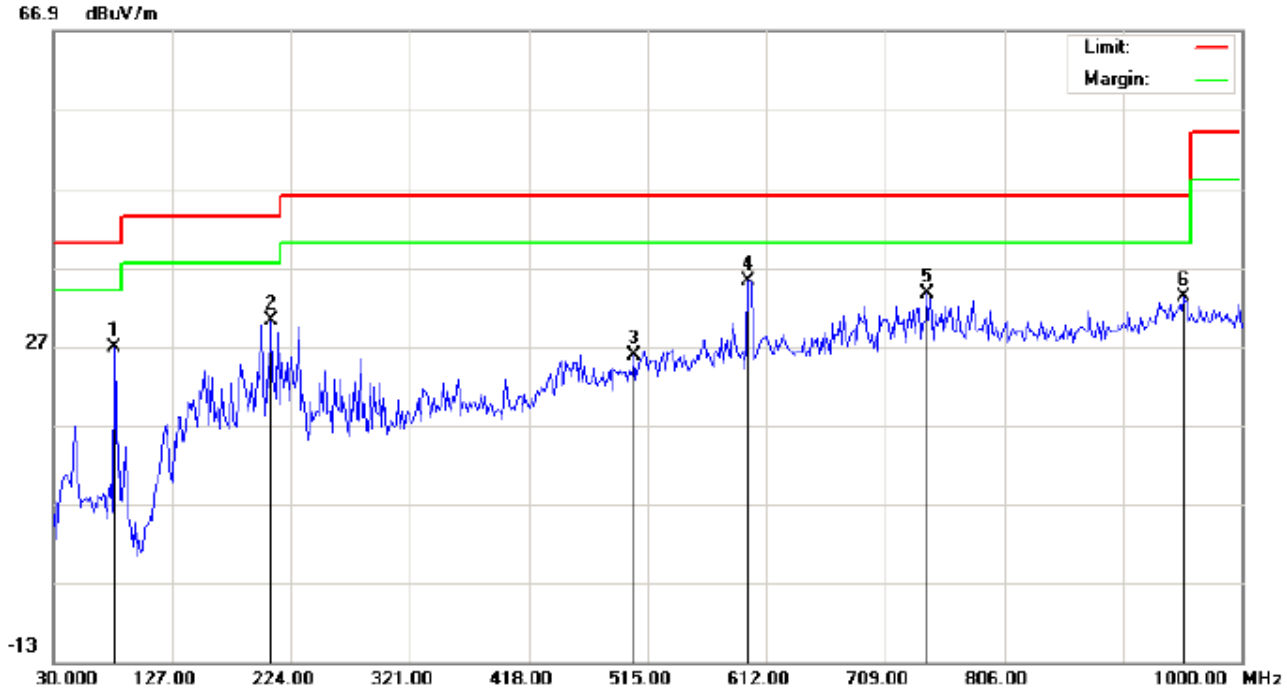
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	207.8333	24.65	11.20	35.85	43.50	-7.65	peak			
2		398.6000	15.52	19.06	34.58	46.00	-11.42	peak			
3		495.6000	13.32	21.08	34.40	46.00	-11.60	peak			
4		599.0667	9.95	23.71	33.66	46.00	-12.34	peak			
5		799.5333	5.75	27.31	33.06	46.00	-12.94	peak			
6		912.7000	7.09	28.96	36.05	46.00	-9.95	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

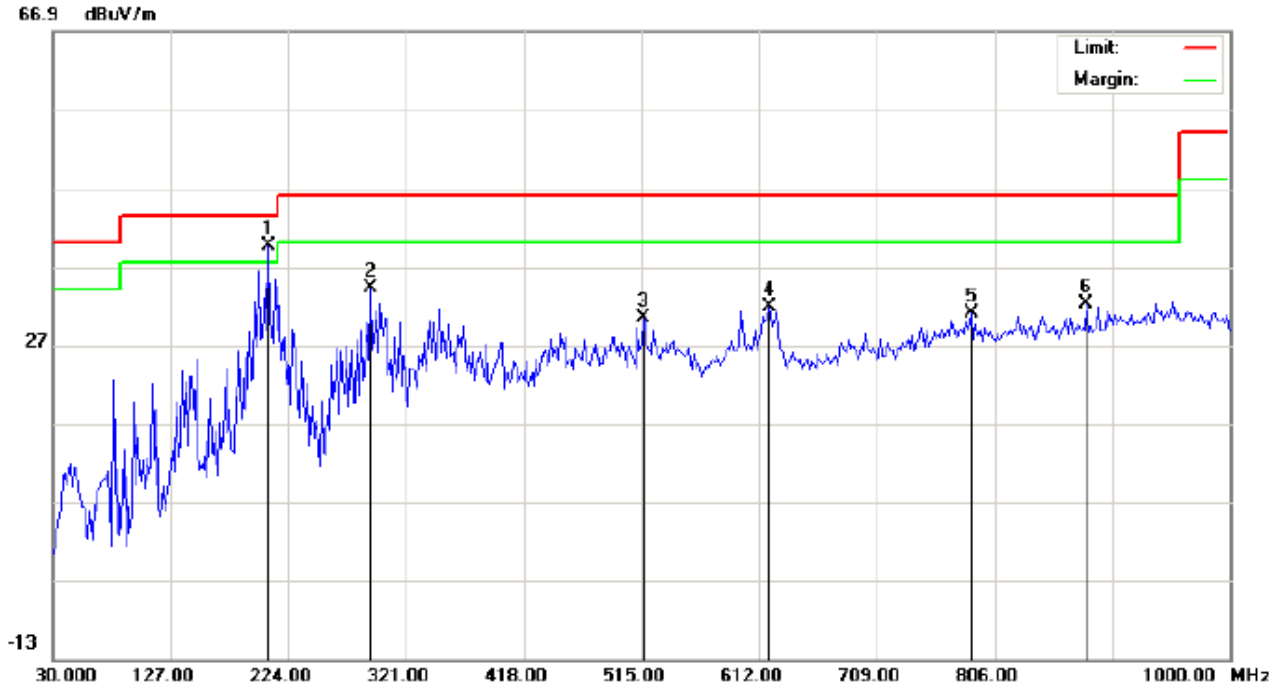
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		80.1167	24.99	1.84	26.83	40.00	-13.17	peak			
2		207.8333	20.40	9.77	30.17	43.50	-13.33	peak			
3		503.6833	4.61	21.23	25.84	46.00	-20.16	peak			
4	*	597.4500	12.47	22.72	35.19	46.00	-10.81	peak			
5		742.9500	7.14	26.43	33.57	46.00	-12.43	peak			
6		953.1167	3.25	29.97	33.22	46.00	-12.78	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 Earphone
M/N: E07
Mode: High Channel TX
Note:

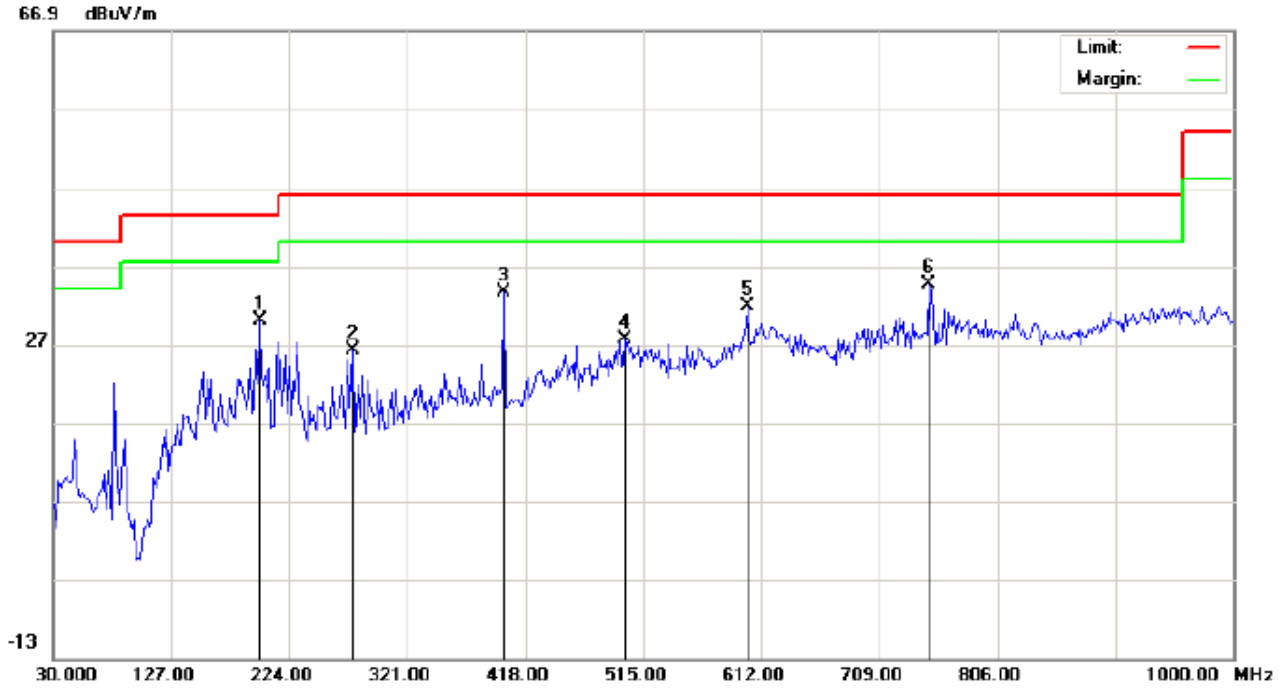
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	207.8333	28.41	11.20	39.61	43.50	-3.89	peak			
2		291.9000	20.17	14.03	34.20	46.00	-11.80	peak			
3		516.6167	8.73	21.58	30.31	46.00	-15.69	peak			
4		620.0833	7.94	23.78	31.72	46.00	-14.28	peak			
5		786.6000	3.87	27.14	31.01	46.00	-14.99	peak			
6		881.9833	4.11	28.14	32.25	46.00	-13.75	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	21.03	9.06	30.09	43.50	-13.41	peak			
2		275.7333	11.43	14.68	26.11	46.00	-19.89	peak			
3		400.2167	14.46	19.08	33.54	46.00	-12.46	peak			
4		500.4500	6.47	21.14	27.61	46.00	-18.39	peak			
5		600.6833	8.96	22.75	31.71	46.00	-14.29	peak			
6	*	749.4167	7.94	26.61	34.55	46.00	-11.45	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.

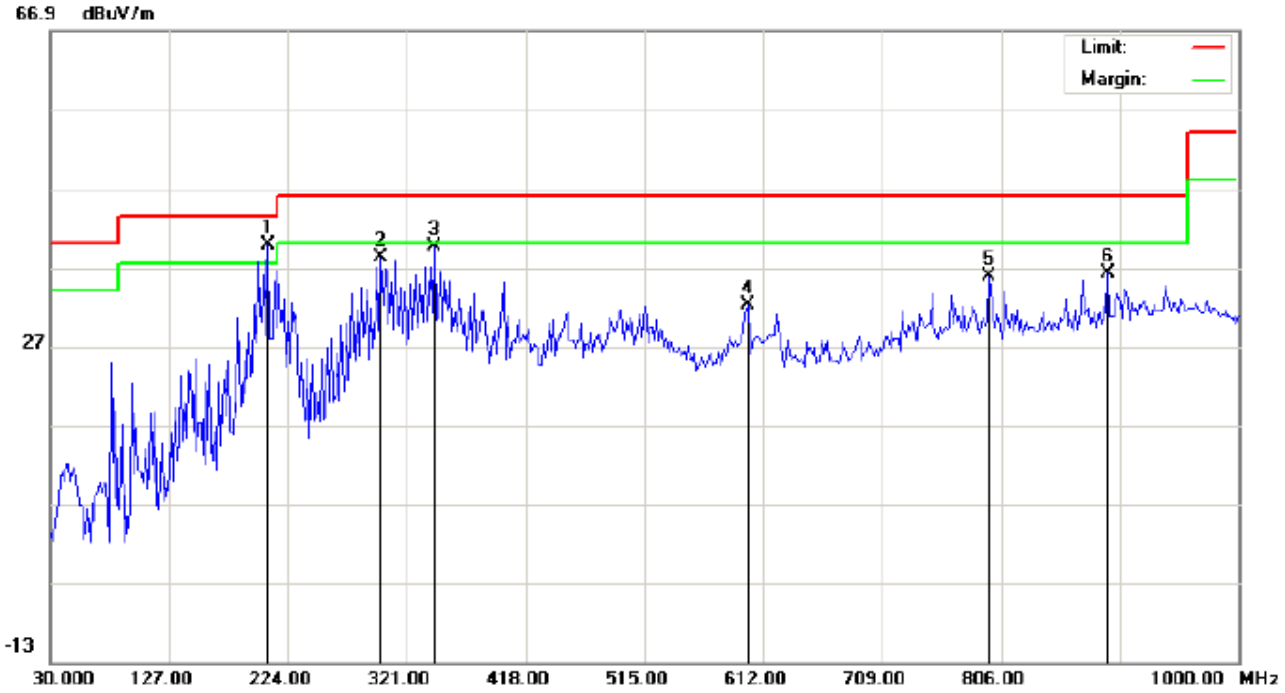
FOR BLE

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 Earphone
M/N: E07
Mode: Low Channel TX
Note:

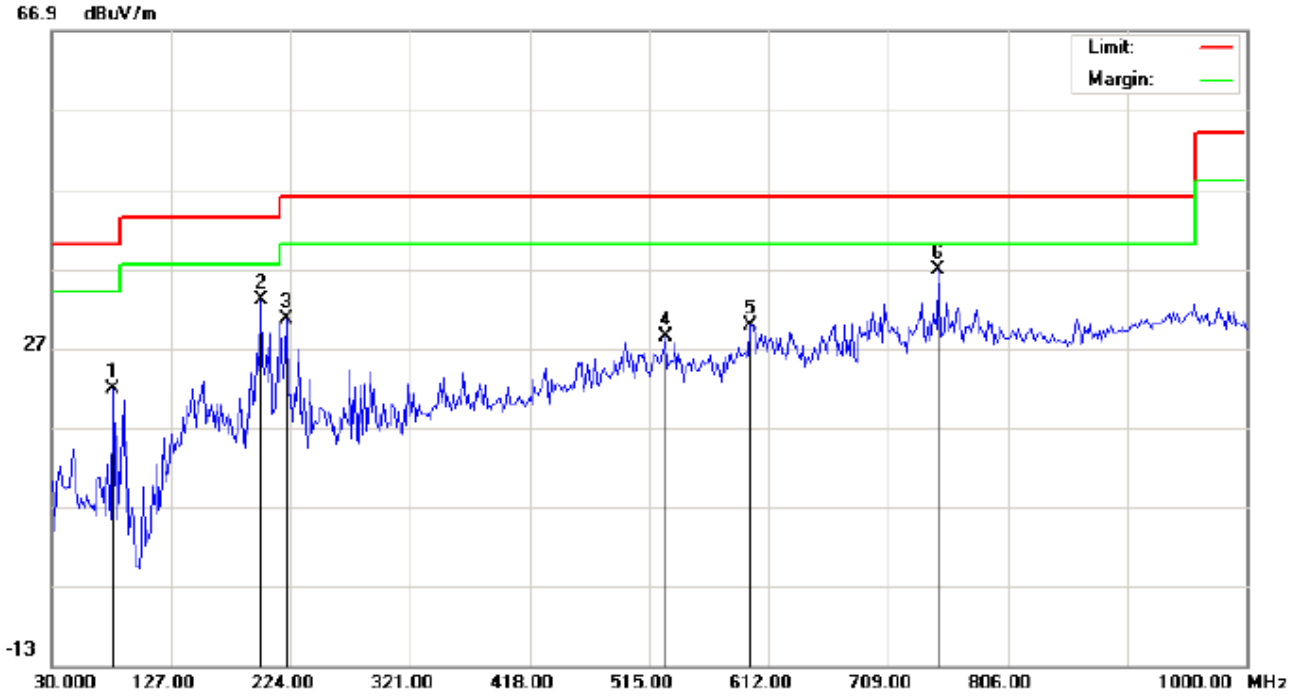
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	207.8333	28.64	11.20	39.84	43.50	-3.66	peak			
2		299.9833	22.75	15.41	38.16	46.00	-7.84	peak			
3		343.6333	21.28	18.32	39.60	46.00	-6.40	peak			
4		599.0667	8.48	23.71	32.19	46.00	-13.81	peak			
5		796.3000	8.50	27.27	35.77	46.00	-10.23	peak			
6		893.3000	7.82	28.44	36.26	46.00	-9.74	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

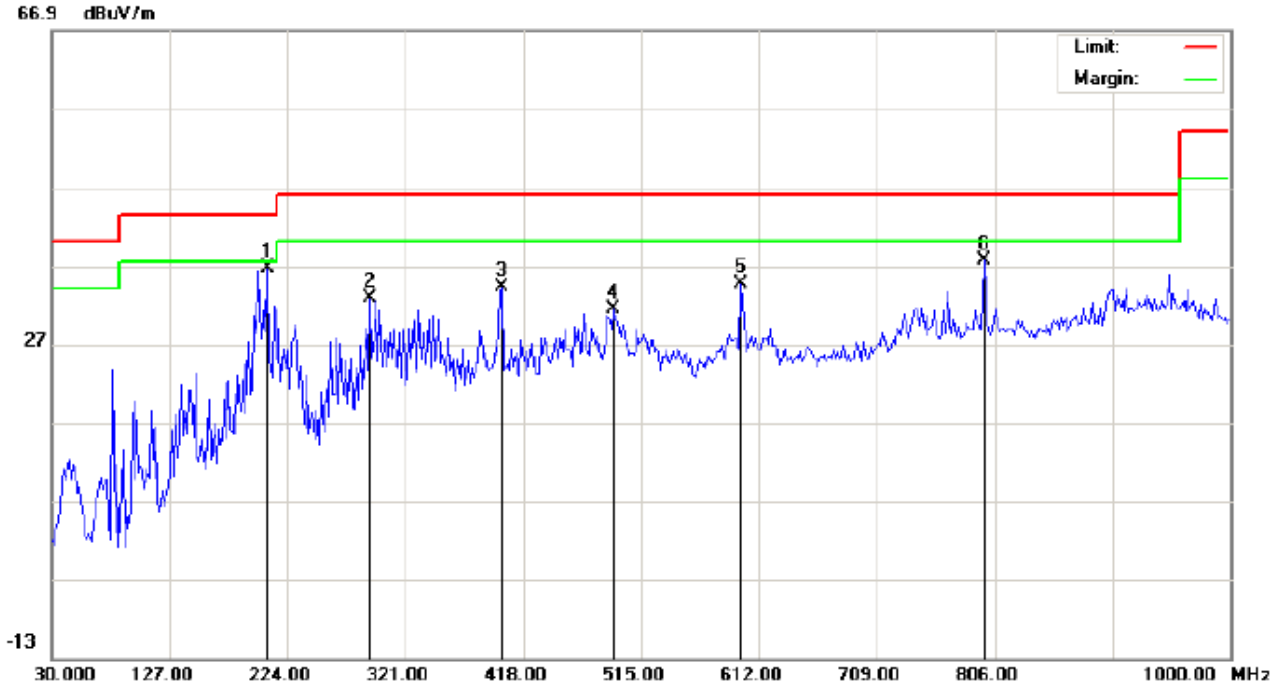
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		80.1167	19.92	1.84	21.76	40.00	-18.24	peak			
2		199.7500	24.03	9.06	33.09	43.50	-10.41	peak			
3		220.7667	19.53	11.04	30.57	46.00	-15.43	peak			
4		527.9333	6.46	21.88	28.34	46.00	-17.66	peak			
5		597.4500	7.18	22.72	29.90	46.00	-16.10	peak			
6	*	749.4167	10.24	26.61	36.85	46.00	-9.15	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 Earphone
M/N: E07
Mode: Middle Channel TX
Note:

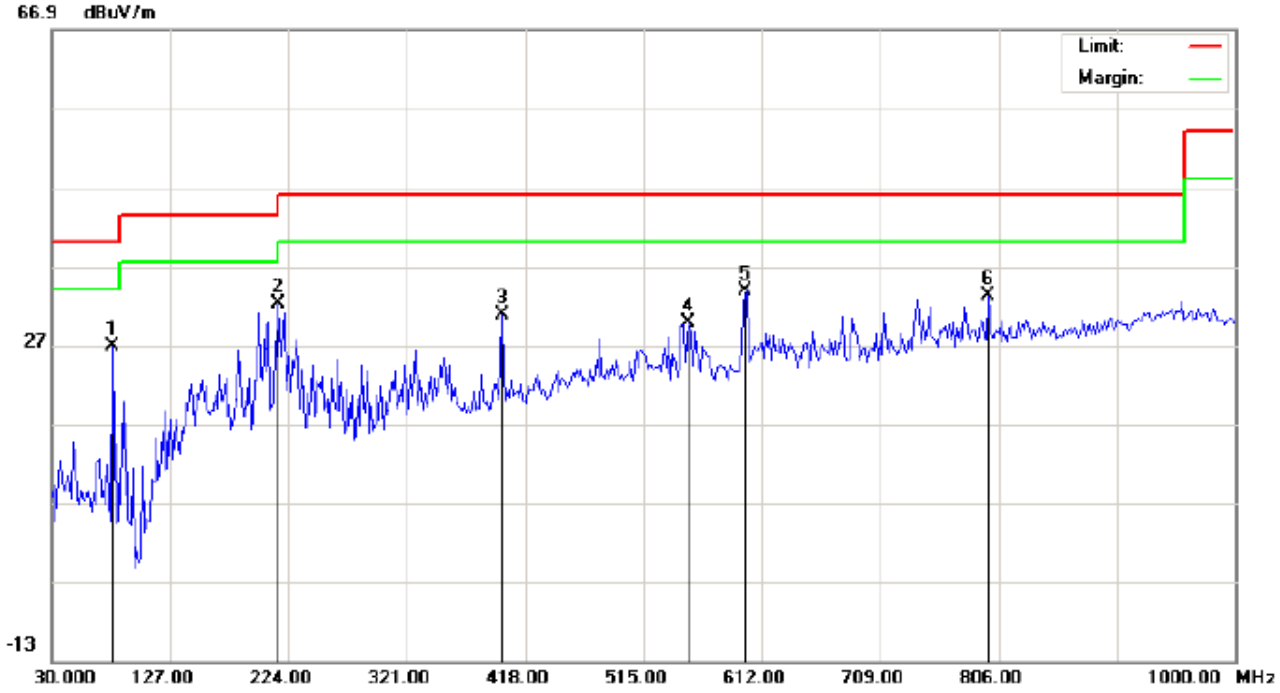
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	207.8333	25.39	11.20	36.59	43.50	-6.91	peak			
2		291.9000	18.82	14.03	32.85	46.00	-13.15	peak			
3		400.2167	15.21	19.08	34.29	46.00	-11.71	peak			
4		492.3667	10.40	21.05	31.45	46.00	-14.55	peak			
5		597.4500	10.99	23.67	34.66	46.00	-11.34	peak			
6		797.9167	10.24	27.29	37.53	46.00	-8.47	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

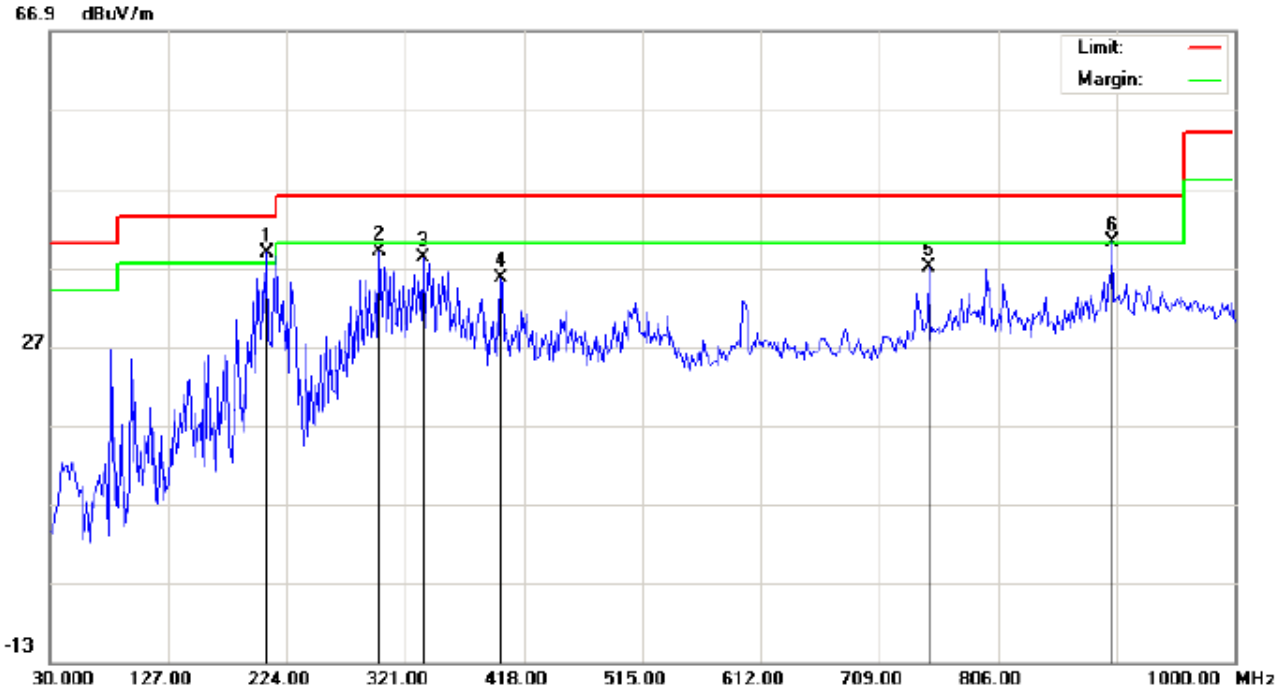
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		80.1166	24.98	1.84	26.82	40.00	-13.18	peak			
2	*	215.9166	21.59	10.56	32.15	43.50	-11.35	peak			
3		398.6000	11.72	19.06	30.78	46.00	-15.22	peak			
4		552.1833	7.29	22.49	29.78	46.00	-16.22	peak			
5		599.0666	11.12	22.73	33.85	46.00	-12.15	peak			
6		797.9166	5.97	27.29	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 Earphone
M/N: E07
Mode: High Channel TX
Note:

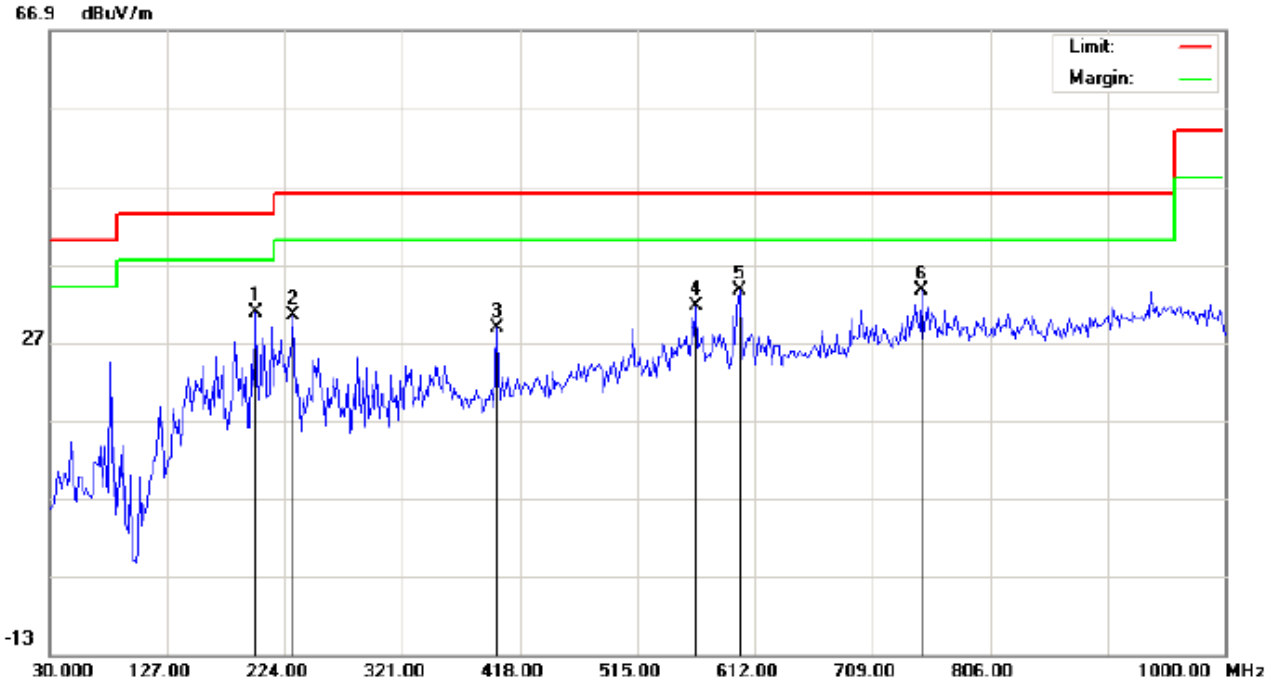
Polarization: *Horizontal*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	*	207.8333	27.60	11.20	38.80	43.50	-4.70	peak			
2		299.9833	23.51	15.41	38.92	46.00	-7.08	peak			
3		335.5500	20.45	17.78	38.23	46.00	-7.77	peak			
4		398.6000	16.57	19.06	35.63	46.00	-10.37	peak			
5		749.4167	10.44	26.61	37.05	46.00	-8.95	peak			
6	!	899.7667	11.59	28.60	40.19	46.00	-5.81	peak			

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth Earphone
M/N: E07
Mode: High Channel TX
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature: 23.1
Humidity: 52.4 %

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	21.71	9.06	30.77	43.50	-12.73	peak			
2		230.4667	18.41	11.99	30.40	46.00	-15.60	peak			
3		398.6000	9.81	19.06	28.87	46.00	-17.13	peak			
4		563.5000	9.09	22.55	31.64	46.00	-14.36	peak			
5		599.0667	10.79	22.73	33.52	46.00	-12.48	peak			
6	*	749.4167	6.96	26.61	33.57	46.00	-12.43	peak			

RESULT: PASS

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

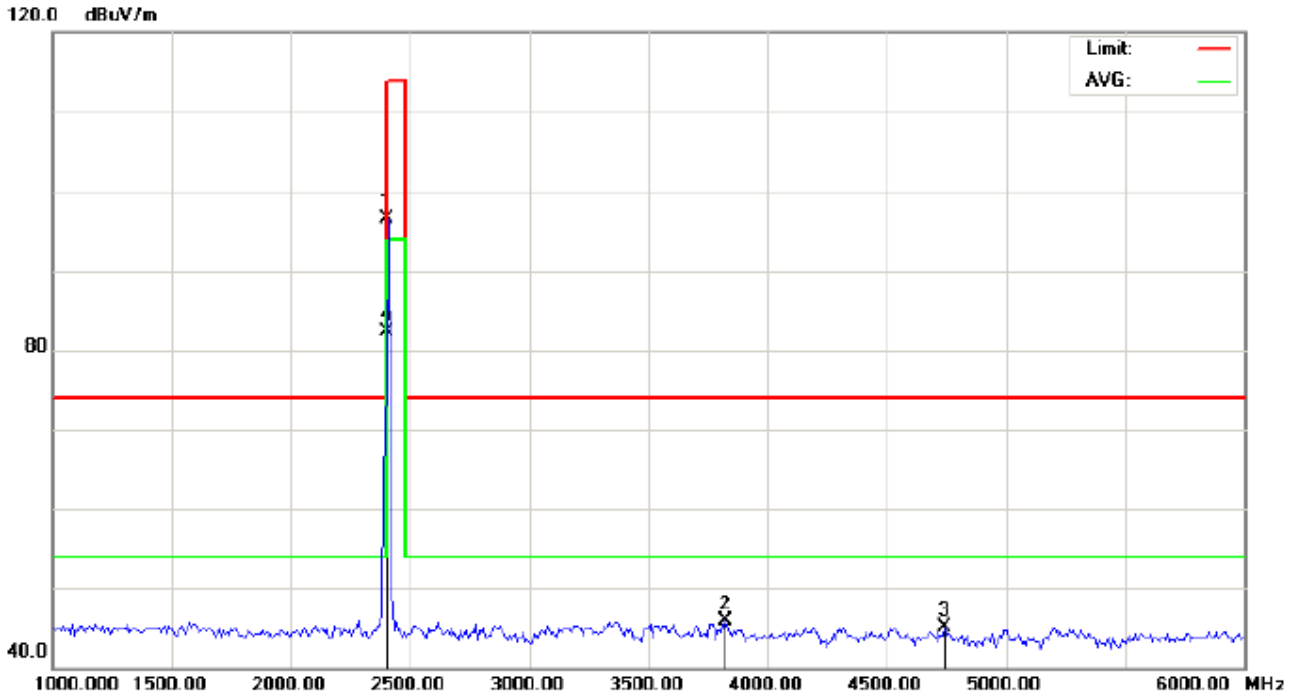
2. The “Factor” value can be calculated automatically by software of measurement system.

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 Earphone
M/N: E07
Mode: Low Channel TX
Note:

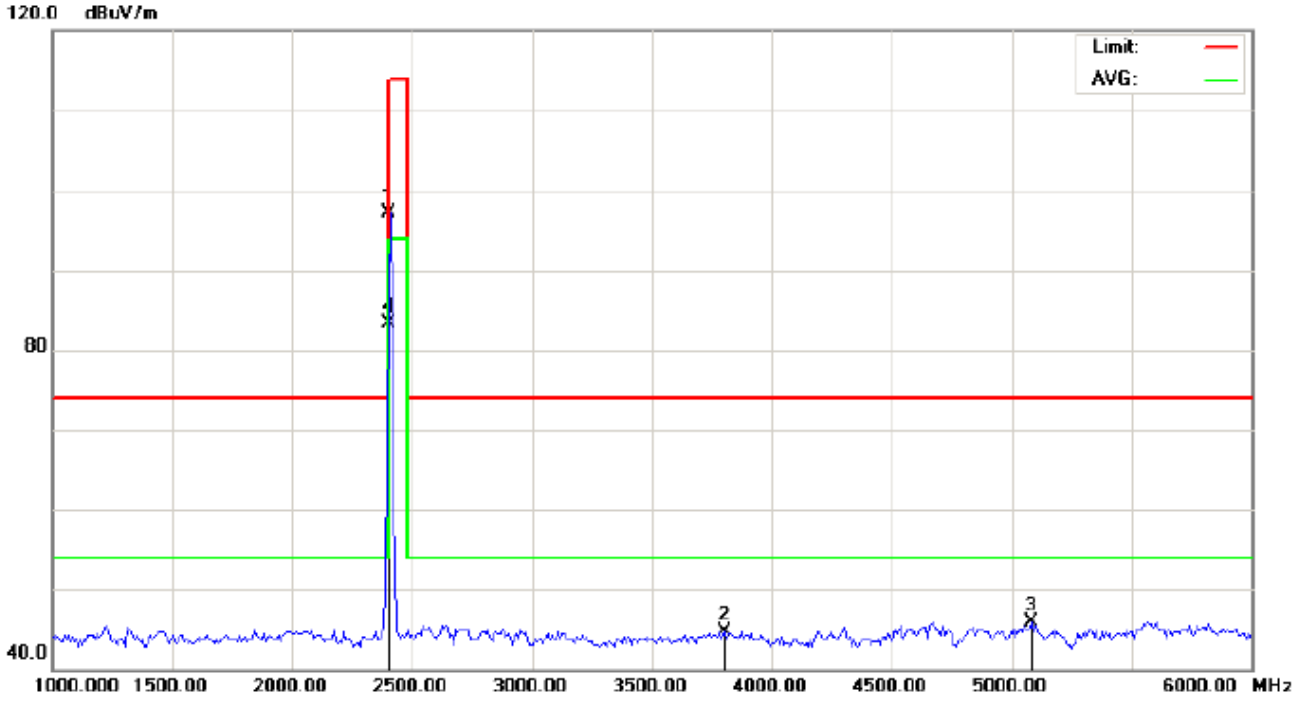
Polarization: *Horizontal*
Power:
Distance: 3m

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	106.25	-9.68	96.57	114.00	-17.43	peak			
2		3825.000	51.73	-5.89	45.84	74.00	-28.16	peak			
3		4741.667	47.68	-2.48	45.20	74.00	-28.80	peak			
4	*	2402.000	92.05	-9.68	82.37	94.00	-11.63	AVG	100	151	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

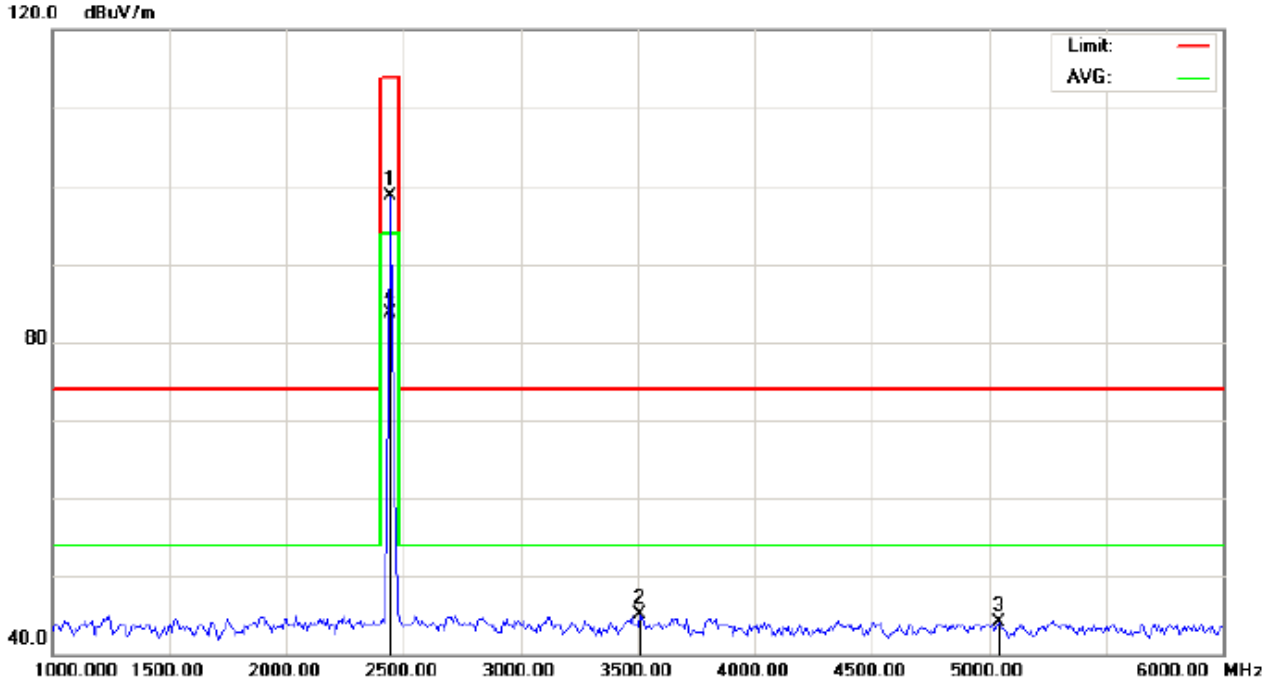
Polarization: *Vertical*
Power:
Distance: 3m

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	106.69	-9.68	97.01	114.00	-16.99	peak			
2		3800.000	50.72	-6.04	44.68	74.00	-29.32	peak			
3		5083.333	47.65	-1.80	45.85	74.00	-28.15	peak			
4	*	2402.000	92.92	-9.68	83.24	94.00	-10.76	AVG	100	347	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

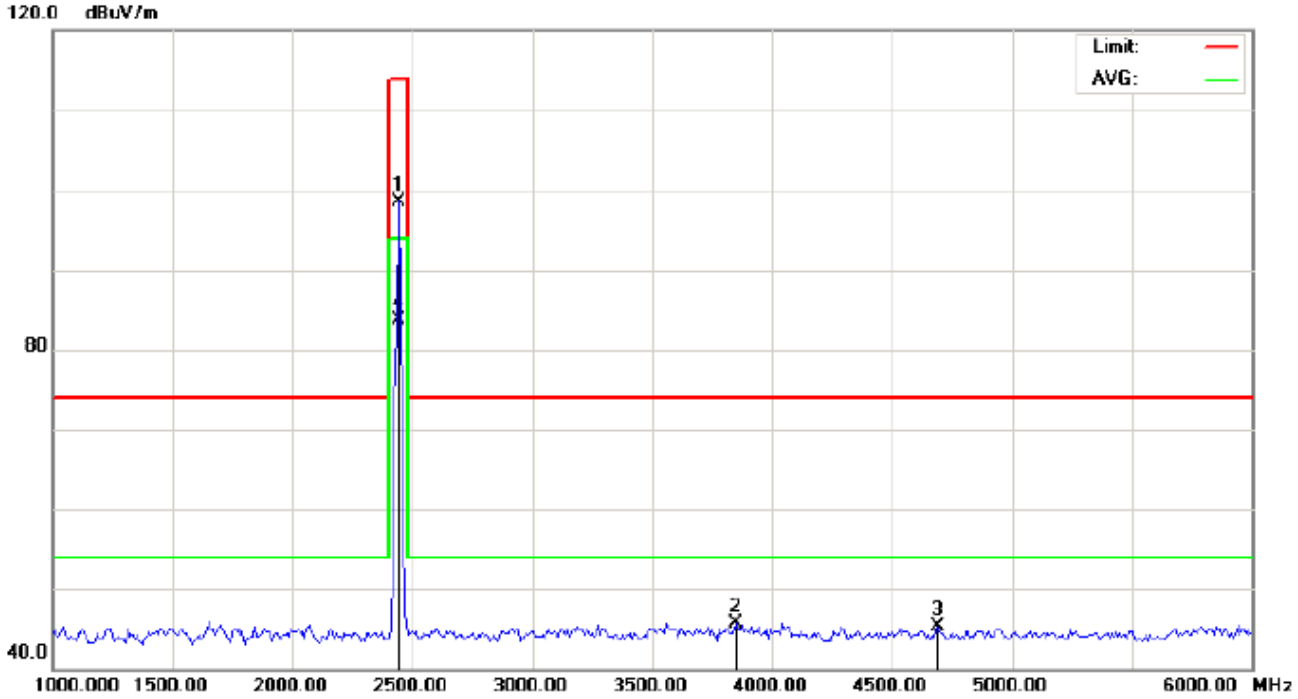
Polarization: *Horizontal*
Power:
Distance: 3m

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	108.26	-9.63	98.63	114.00	-15.37	peak			
2		3508.333	52.89	-7.84	45.05	74.00	-28.95	peak			
3		5041.667	45.94	-1.80	44.14	74.00	-29.86	peak			
4	*	2441.000	93.37	-9.63	83.74	94.00	-10.26	AVG	100	145	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

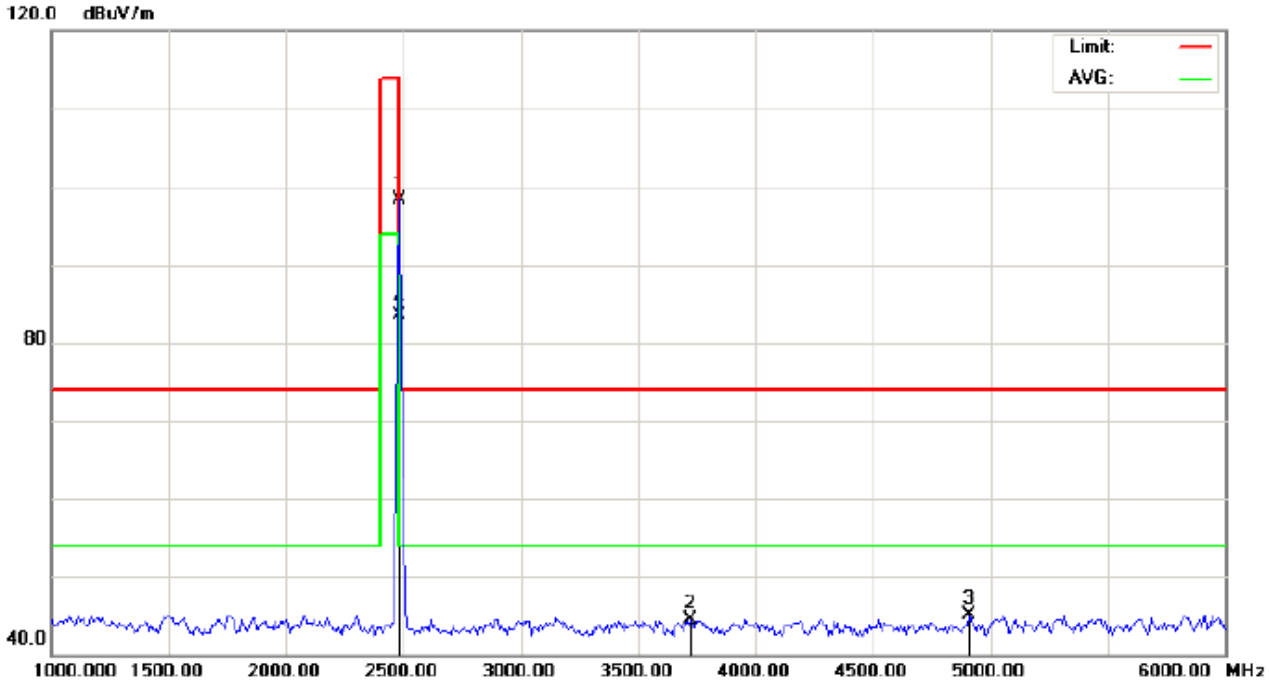
Polarization: *Vertical*
Power:
Distance: 3m

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	108.20	-9.63	98.57	114.00	-15.43	peak			
2		3850.000	51.40	-5.73	45.67	74.00	-28.33	peak			
3		4691.667	47.88	-2.61	45.27	74.00	-28.73	peak			
4	*	2441.000	93.32	-9.63	83.69	94.00	-10.31	AVG	100	352	

RESULT: PASS

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

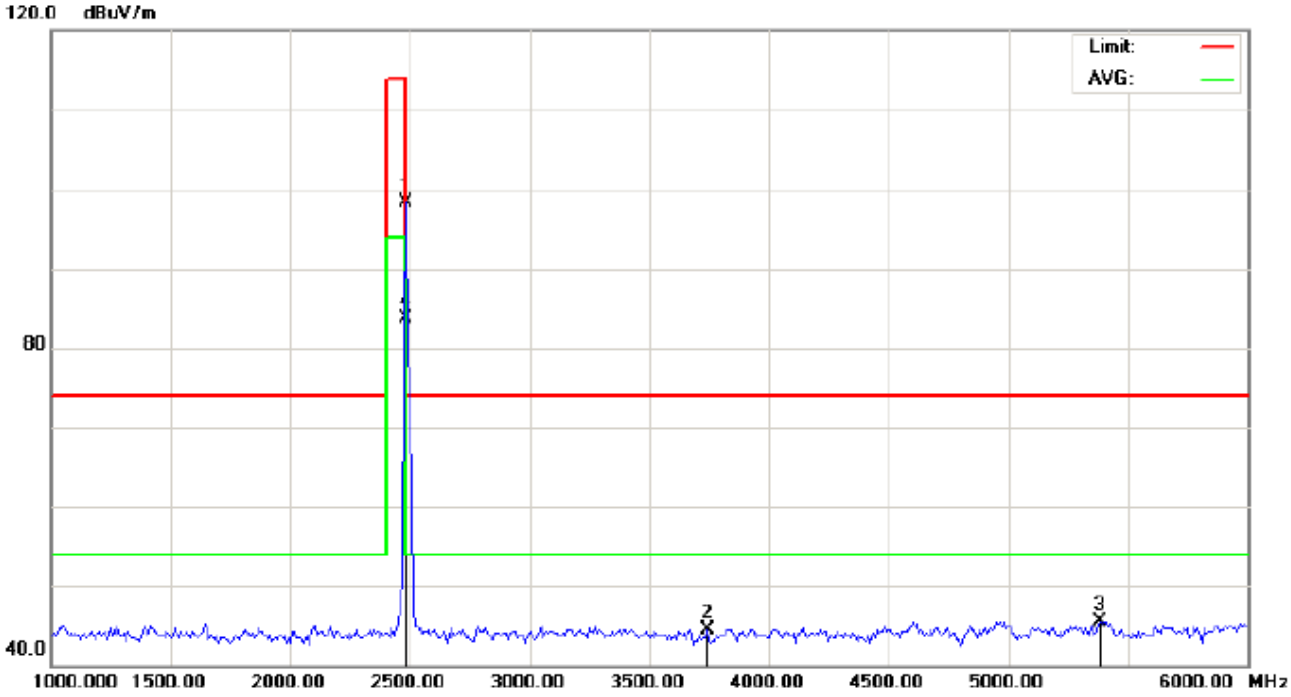


Site: site #1	Polarization: *Horizontal*	Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-	Power:	Humidity: 60 %
EUT: Bluetooth Earphone	Distance: 3m	
M/N: E07		
Mode: High Channel TX		
Note:		

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	107.82	-9.59	98.23	114.00	-15.77	peak			
2		3725.000	50.98	-6.50	44.48	74.00	-29.52	peak			
3		4908.333	47.05	-2.04	45.01	74.00	-28.99	peak			
4	*	2480.000	93.06	-9.59	83.47	94.00	-10.53	AVG	100	148	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
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	107.88	-9.59	98.29	114.00	-15.71	peak			
2		3741.667	50.98	-6.40	44.58	74.00	-29.42	peak			
3		5383.333	47.36	-1.81	45.55	74.00	-28.45	peak			
4	*	2480.000	93.20	-9.59	83.61	94.00	-10.39	AVG	100	350	

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	106.25	-9.68	96.57	114.00	-17.43	Horizontal
2402	106.69	-9.68	97.01	114.00	-16.99	Vertical
2441	108.26	-9.63	98.63	114.00	-15.37	Horizontal
2441	108.20	-9.63	98.57	114.00	-15.43	Vertical
2480	107.82	-9.59	98.23	114.00	-15.77	Horizontal
2480	107.88	-9.59	98.29	114.00	-15.71	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	92.05	-9.68	82.37	94.00	-11.63	Horizontal
2402	92.92	-9.68	83.24	94.00	-10.76	Vertical
2441	93.37	-9.63	83.74	94.00	-10.26	Horizontal
2441	93.32	-9.63	83.69	94.00	-10.31	Vertical
2480	93.06	-9.59	83.47	94.00	-10.53	Horizontal
2480	93.20	-9.59	83.61	94.00	-10.39	Vertical

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	105.46	-9.68	95.78	114.00	-18.22	Horizontal
2402	105.36	-9.68	95.68	114.00	-18.32	Vertical
2441	106.25	-9.68	96.57	114.00	-17.43	Horizontal
2441	106.1	-9.68	96.42	114.00	-17.58	Vertical
2480	105.84	-9.63	96.21	114.00	-17.79	Horizontal
2480	105.76	-9.63	96.13	114.00	-17.87	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	90.60	-9.63	80.97	94.00	-13.03	Horizontal
2402	90.64	-9.63	81.01	94.00	-12.99	Vertical
2441	-91.02	-9.59	81.43	94.00	-12.57	Horizontal
2441	-91.00	-9.59	81.41	94.00	-12.59	Vertical
2480	-90.66	-9.59	81.07	94.00	-12.93	Horizontal
2480	-90.63	-9.59	81.04	94.00	-12.96	Vertical

3Mbps Result:

Peak value

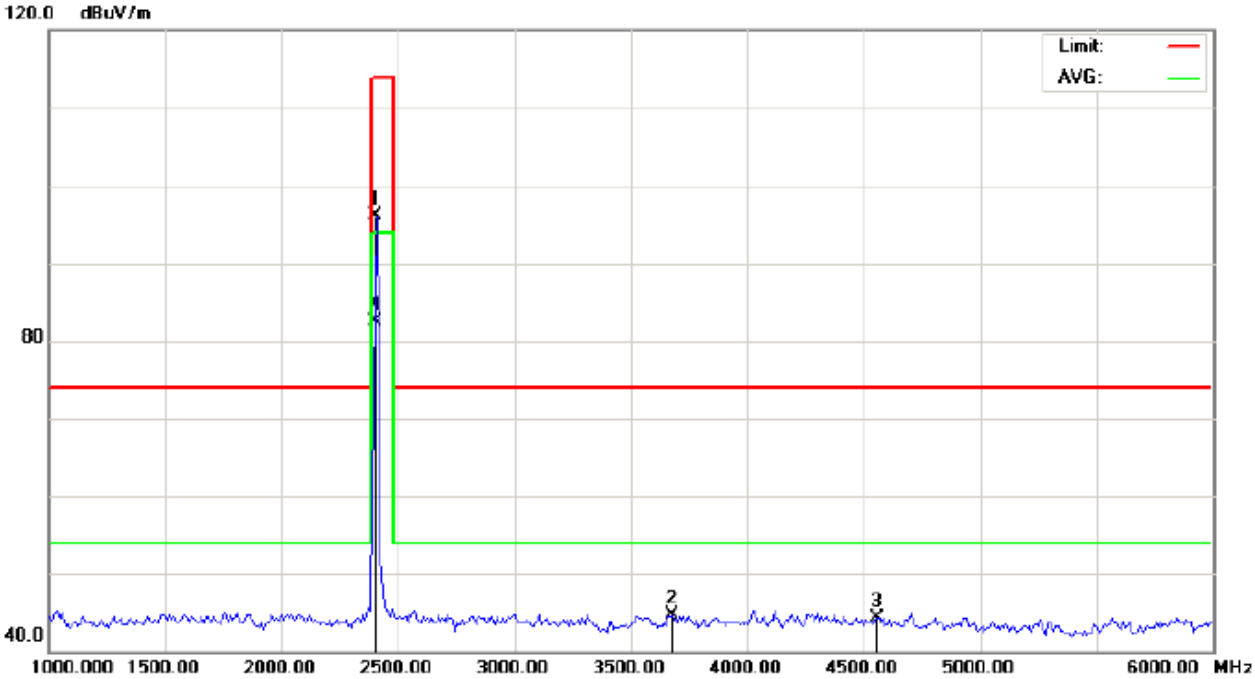
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	105.29	-9.68	95.61	114.00	-18.39	Horizontal
2402	105.25	-9.68	95.57	114.00	-18.43	Vertical
2441	106.07	-9.68	96.39	114.00	-17.61	Horizontal
2441	105.96	-9.68	96.28	114.00	-17.72	Vertical
2480	105.74	-9.63	96.11	114.00	-17.89	Horizontal
2480	105.65	-9.63	96.02	114.00	-17.98	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	90.31	-9.63	80.68	94.00	-13.32	Horizontal
2402	90.26	-9.63	80.63	94.00	-13.37	Vertical
2441	-90.92	-9.59	81.33	94.00	-12.67	Horizontal
2441	-90.86	-9.59	81.27	94.00	-12.73	Vertical
2480	-90.71	-9.59	81.12	94.00	-12.88	Horizontal
2480	-90.64	-9.59	81.05	94.00	-12.95	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 Earphone
M/N: E07
Mode: Low Channel TX
Note:

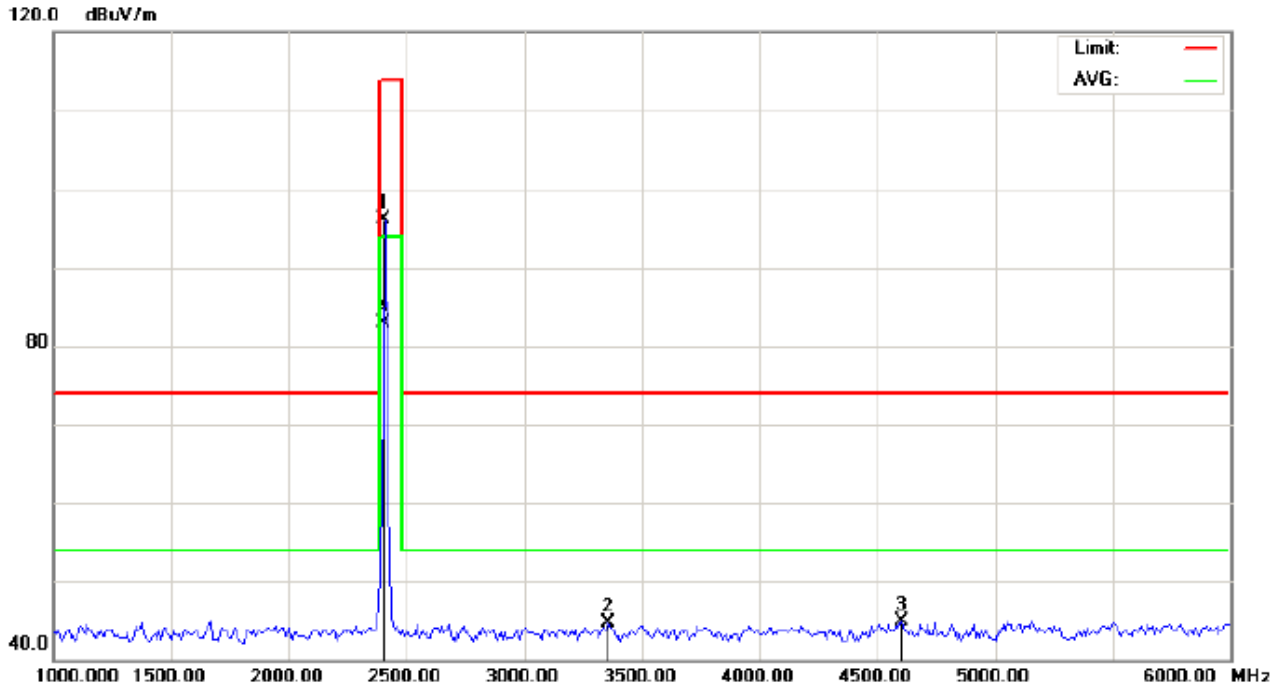
Polarization: *Horizontal*
Power:
Distance: 3m

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	105.70	-9.68	96.02	114.00	-17.98	peak			
2		3675.000	51.45	-6.81	44.64	74.00	-29.36	peak			
3		4558.333	47.26	-2.96	44.30	74.00	-29.70	peak			
4	*	2402.000	92.15	-9.68	82.47	94.00	-11.53	AVG	100	269	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

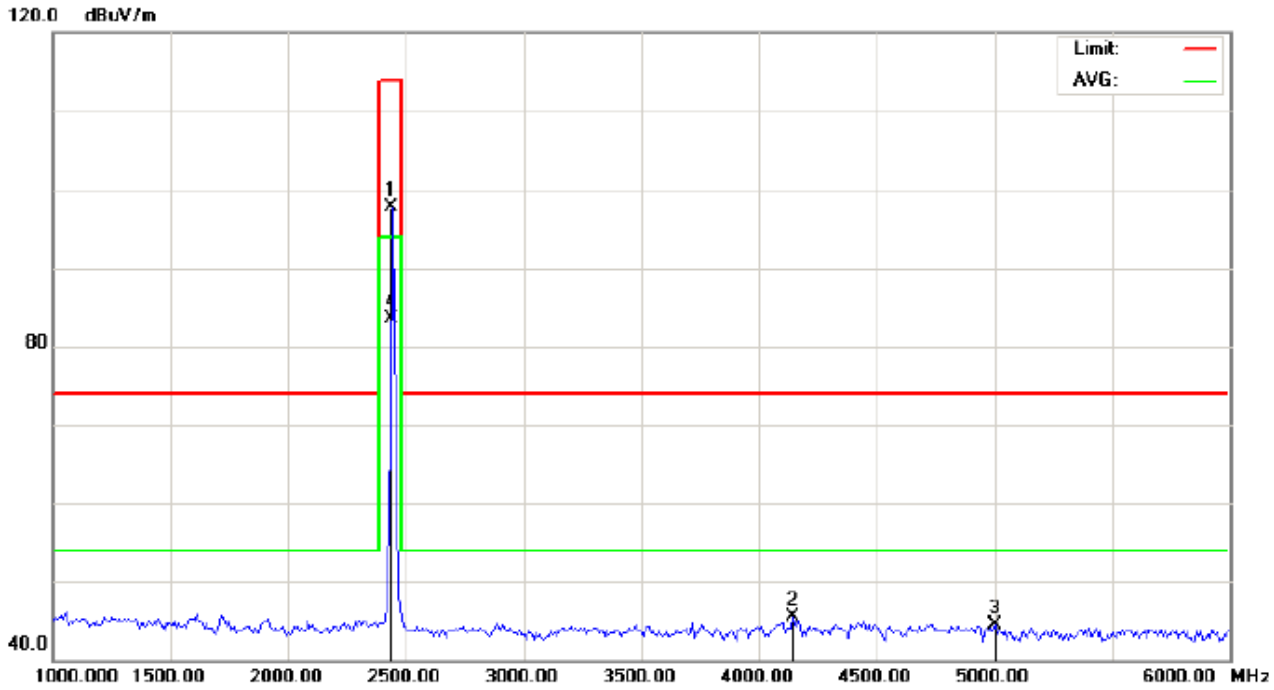
Polarization: *Vertical*
Power:
Distance: 3m

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	105.75	-9.68	96.07	114.00	-17.93	peak			
2		3358.333	52.74	-8.02	44.72	74.00	-29.28	peak			
3		4600.000	47.74	-2.85	44.89	74.00	-29.11	peak			
4	*	2402.000	92.57	-9.68	82.89	94.00	-11.11	AVG	100	121	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

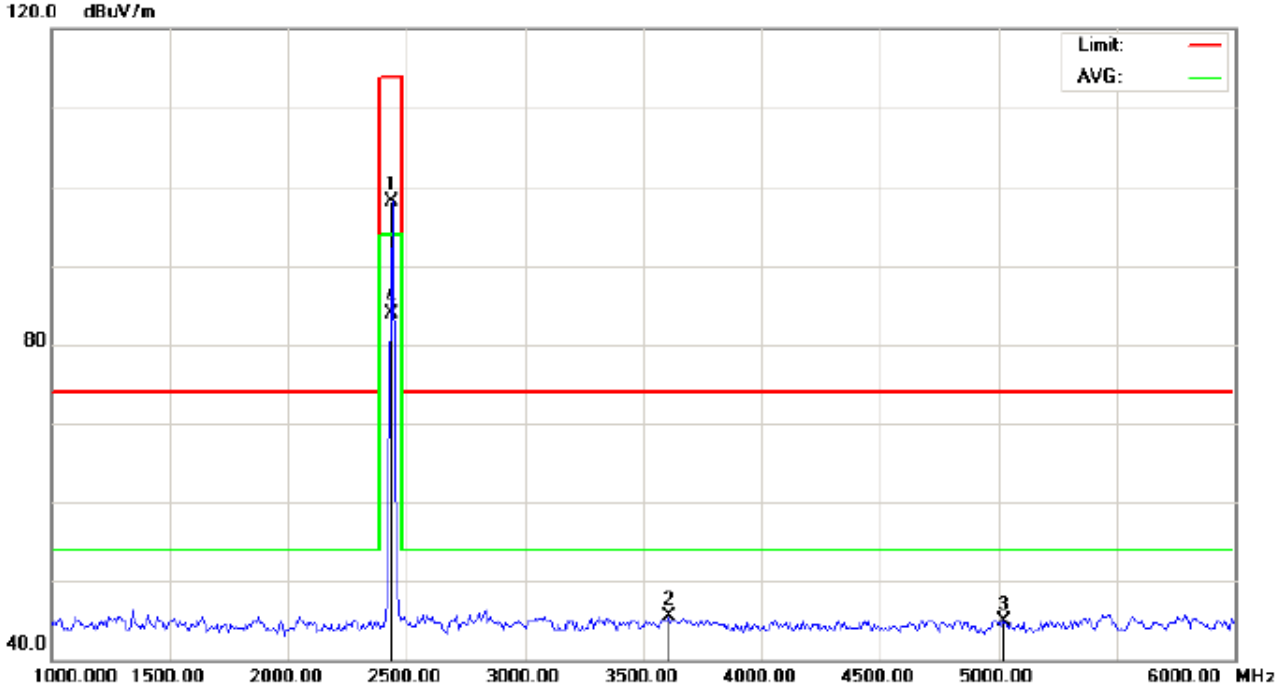
Polarization: *Horizontal*
Power:
Distance: 3m

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	107.33	-9.64	97.69	114.00	-16.31	peak			
2		4141.667	49.91	-4.33	45.58	74.00	-28.42	peak			
3		5000.000	46.21	-1.80	44.41	74.00	-29.59	peak			
4	*	2440.000	93.18	-9.64	83.54	94.00	-10.46	AVG	100	266	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: Middle Channel TX
Note:

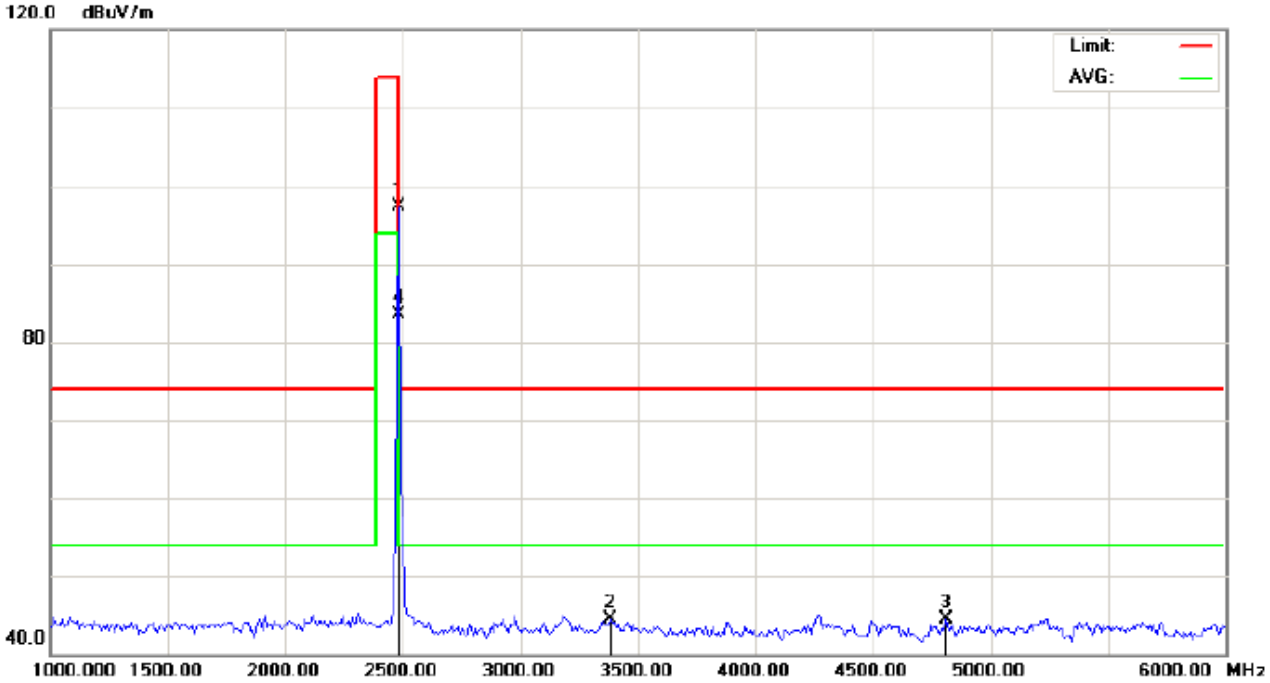
Polarization: *Vertical*
Power:
Distance: 3m

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	107.71	-9.64	98.07	114.00	-15.93	peak			
2		3608.333	52.65	-7.22	45.43	74.00	-28.57	peak			
3		5025.000	46.70	-1.80	44.90	74.00	-29.10	peak			
4	*	2440.000	93.61	-9.64	83.97	94.00	-10.03	AVG	100	124	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
Mode: High Channel TX
Note:

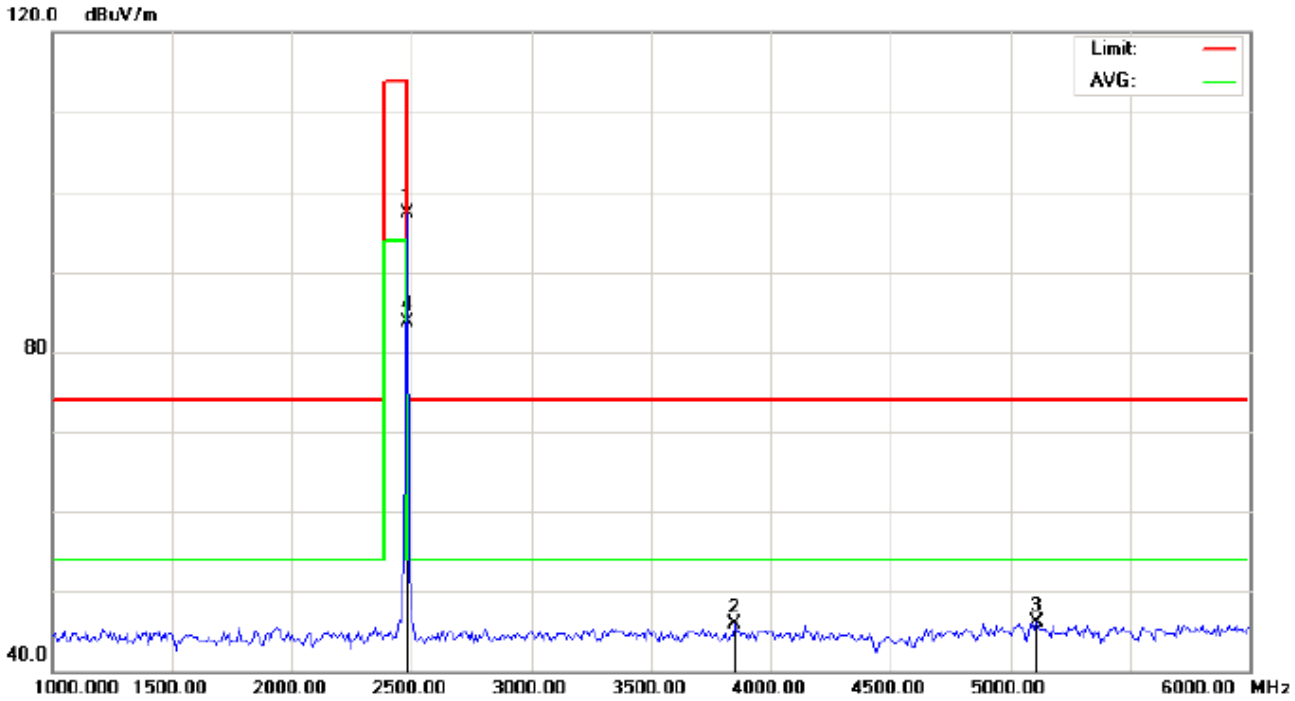
Polarization: *Horizontal*
Power:
Distance: 3m

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		3383.333	52.48	-8.00	44.48	74.00	-29.52	peak			
3		4808.333	46.76	-2.30	44.46	74.00	-29.54	peak			
4	*	2480.000	93.11	-9.59	83.52	94.00	-10.48	AVG	100	274	

RESULT: PASS

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



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)-
EUT: Bluetooth Earphone
M/N: E07
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	106.91	-9.59	97.32	114.00	-16.68	peak			
2		3850.000	51.54	-5.73	45.81	74.00	-28.19	peak			
3		5108.333	47.89	-1.80	46.09	74.00	-27.91	peak			
4	*	2480.000	93.28	-9.59	83.69	94.00	-10.31	AVG	100	118	

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	105.70	-9.68	96.02	114.00	-17.98	Horizontal
2402	105.75	-9.68	96.07	114.00	-17.93	Vertical
2440	107.33	-9.64	97.69	114.00	-16.31	Horizontal
2440	107.71	-9.64	98.07	114.00	-15.93	Vertical
2480	106.85	-9.59	97.26	114.00	-16.74	Horizontal
2480	106.91	-9.59	97.32	114.00	-16.68	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	92.15	-9.68	82.47	94.00	-11.53	Horizontal
2402	92.57	-9.68	82.89	94.00	-11.11	Vertical
2440	93.18	-9.64	83.54	94.00	-10.46	Horizontal
2440	93.61	-9.64	83.97	94.00	-10.03	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

9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

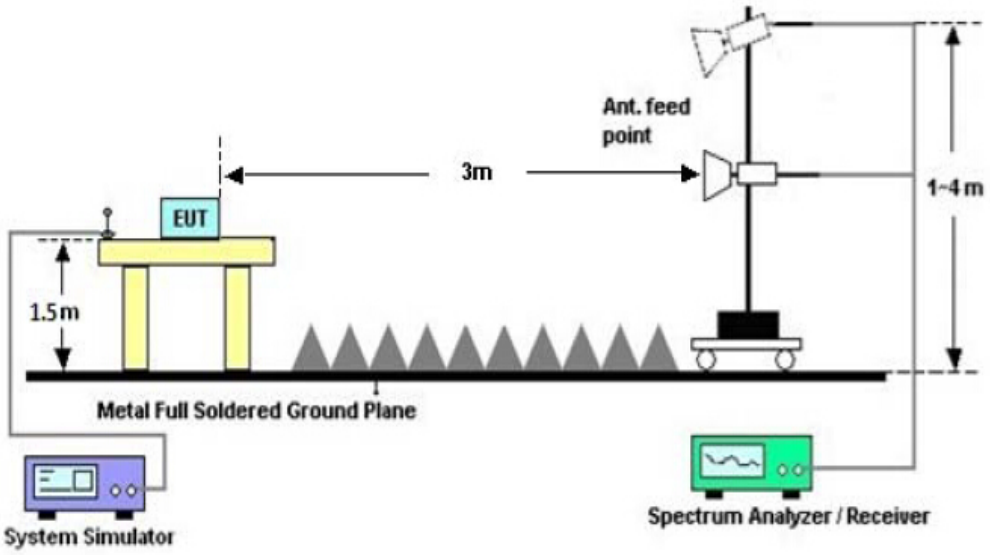
1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

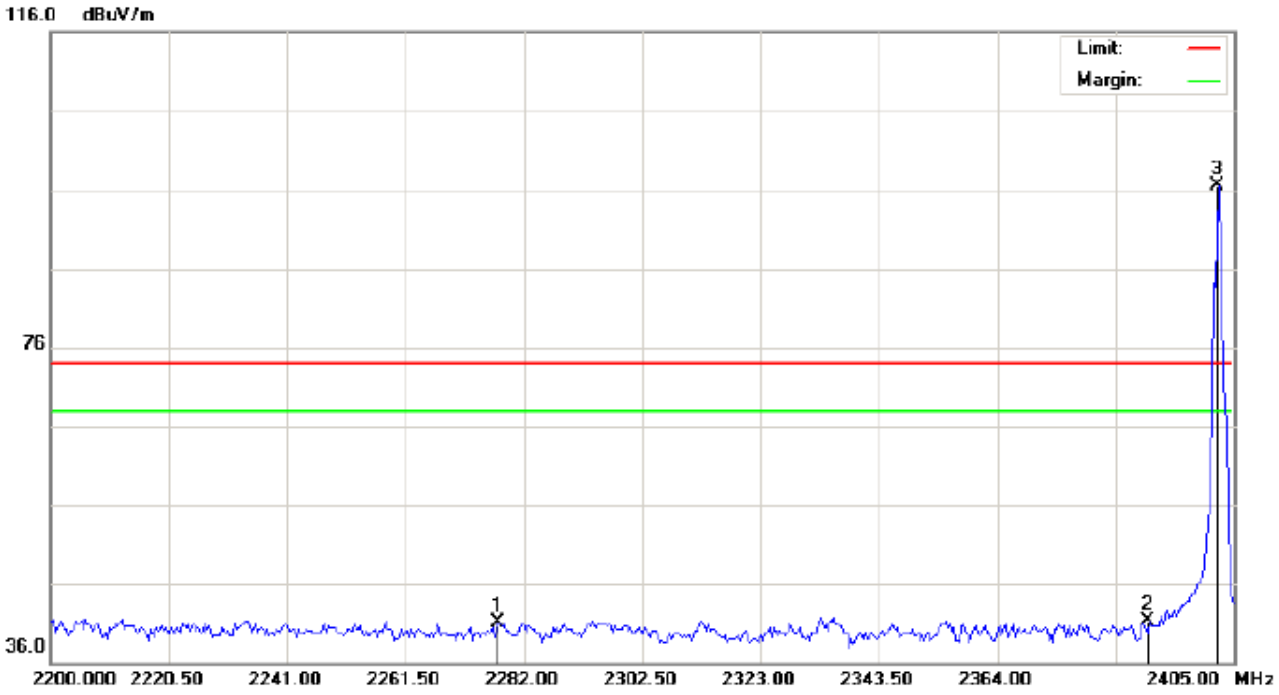


9.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



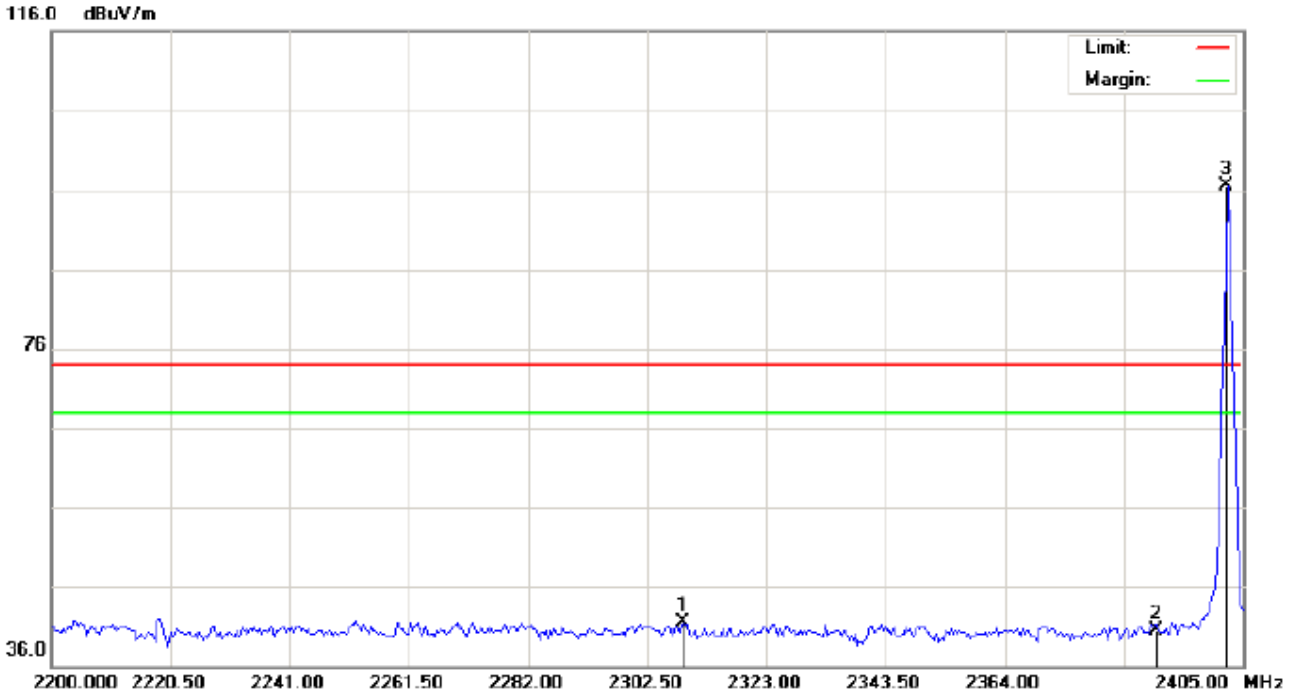
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

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		2277.558	30.94	10.19	41.13	74.00	-32.87	peak			
2		2390.000	31.00	10.31	41.31	74.00	-32.69	peak			
3	*	2402.000	86.22	10.32	96.54	74.00	22.54	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



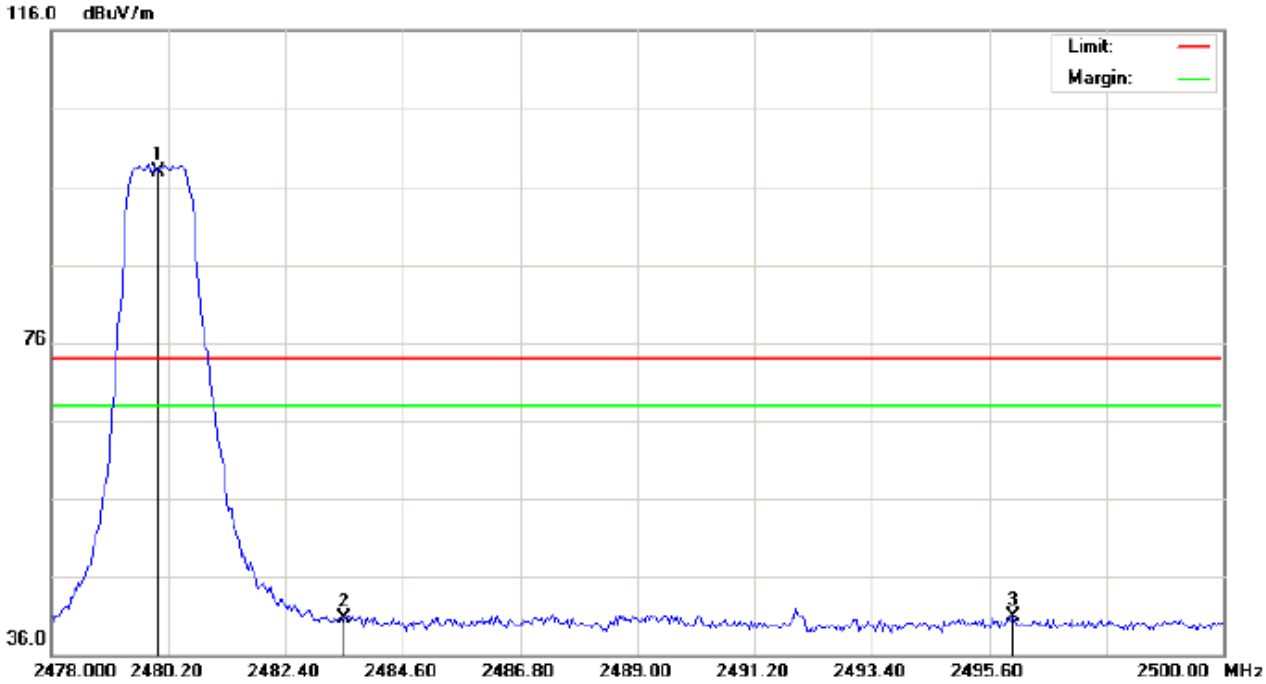
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

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		2308.650	31.20	10.22	41.42	74.00	-32.58	peak			
2		2390.000	30.21	10.31	40.52	74.00	-33.48	peak			
3	*	2402.000	86.09	10.32	96.41	74.00	22.41	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



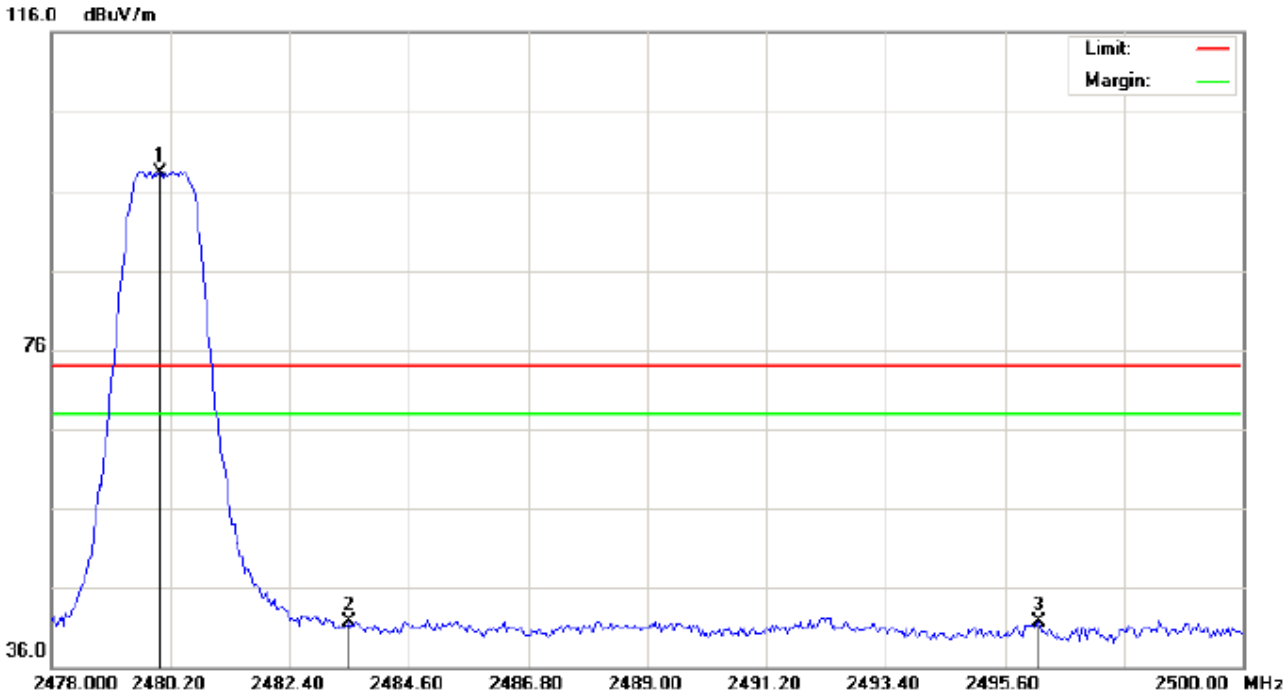
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: High Channel TX
Note:

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	87.55	10.41	97.96	74.00	23.96	peak			
2		2483.500	30.19	10.41	40.60	74.00	-33.40	peak			
3		2496.040	30.40	10.43	40.83	74.00	-33.17	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
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	87.82	10.41	98.23	74.00	24.23	peak			
2		2483.500	31.26	10.41	41.67	74.00	-32.33	peak			
3		2496.223	31.29	10.43	41.72	74.00	-32.28	peak			

RESULT: PASS

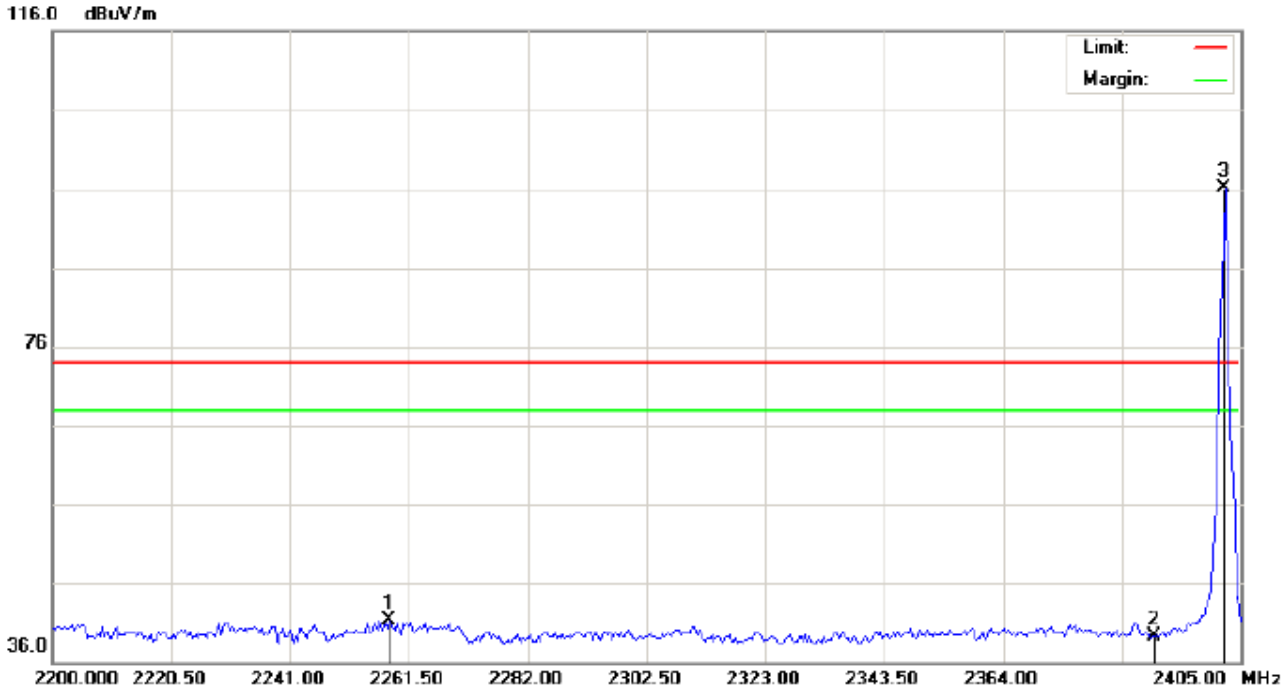
Note: The other modes radiation emission have enough 20dB margin.

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



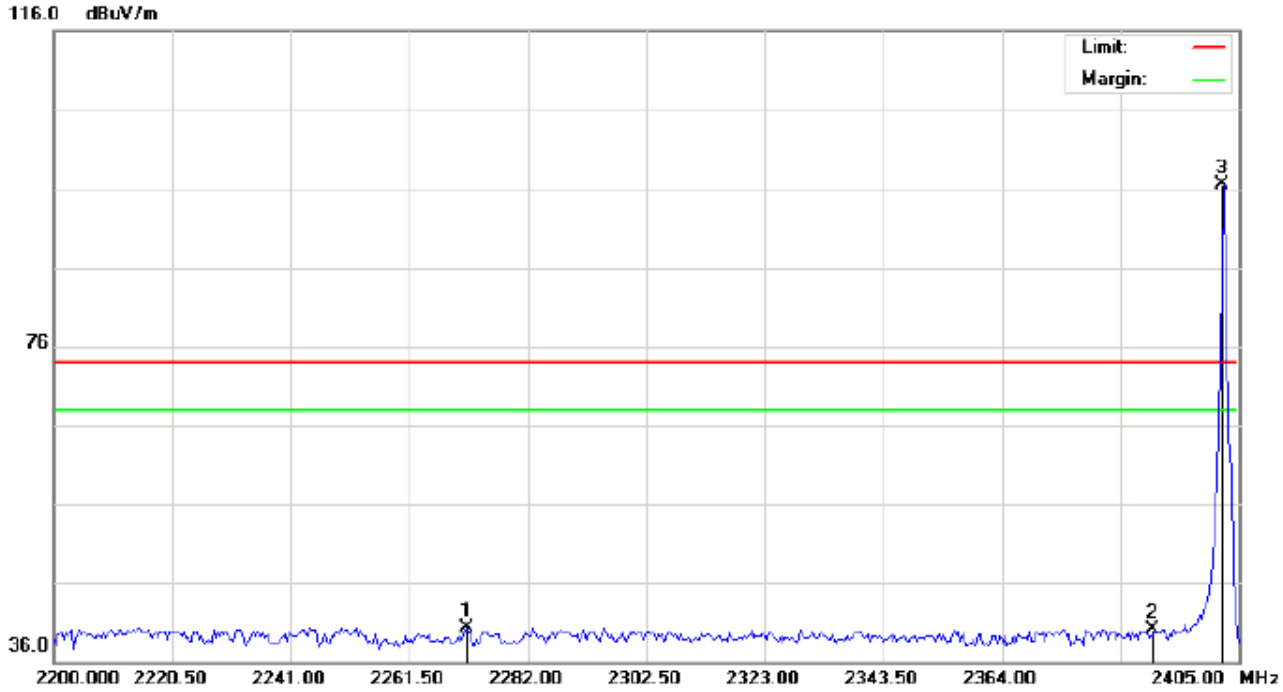
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

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		2258.083	31.20	10.16	41.36	74.00	-32.64	peak			
2		2390.000	29.00	10.31	39.31	74.00	-34.69	peak			
3	*	2402.000	85.72	10.32	96.04	74.00	22.04	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



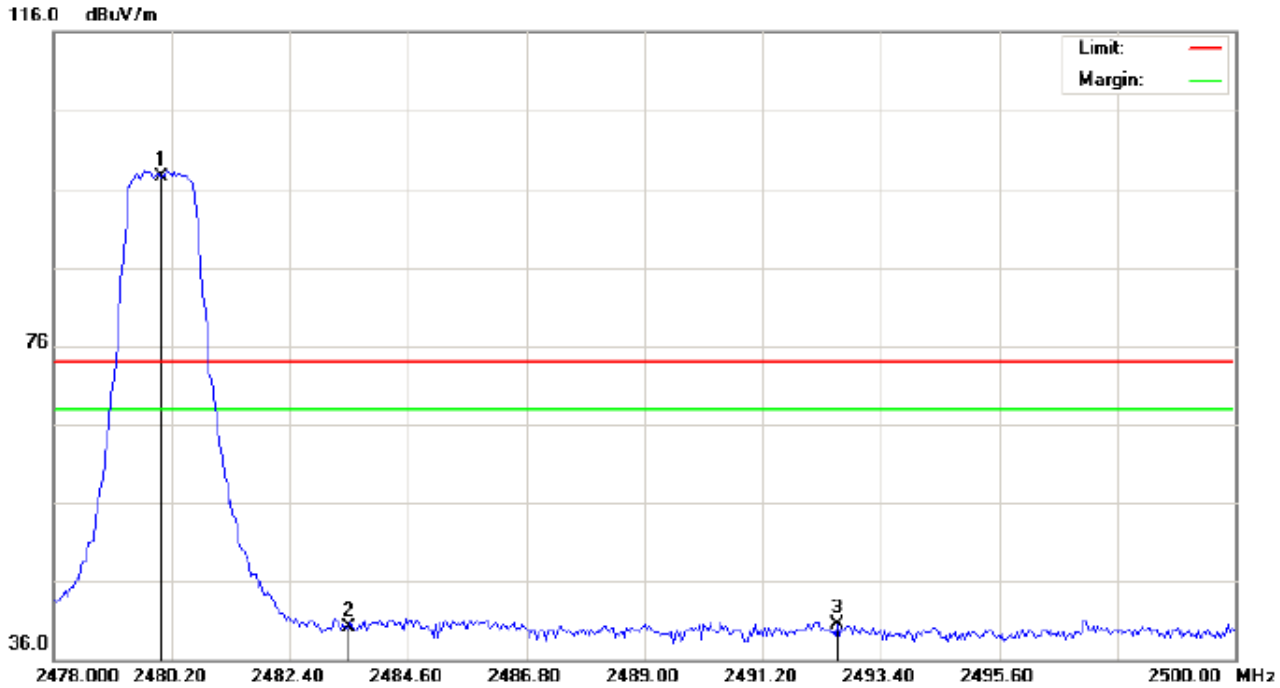
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: Low Channel TX
Note:

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		2271.408	30.11	10.18	40.29	74.00	-33.71	peak			
2		2390.000	29.71	10.31	40.02	74.00	-33.98	peak			
3	*	2402.000	86.09	10.32	96.41	74.00	22.41	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



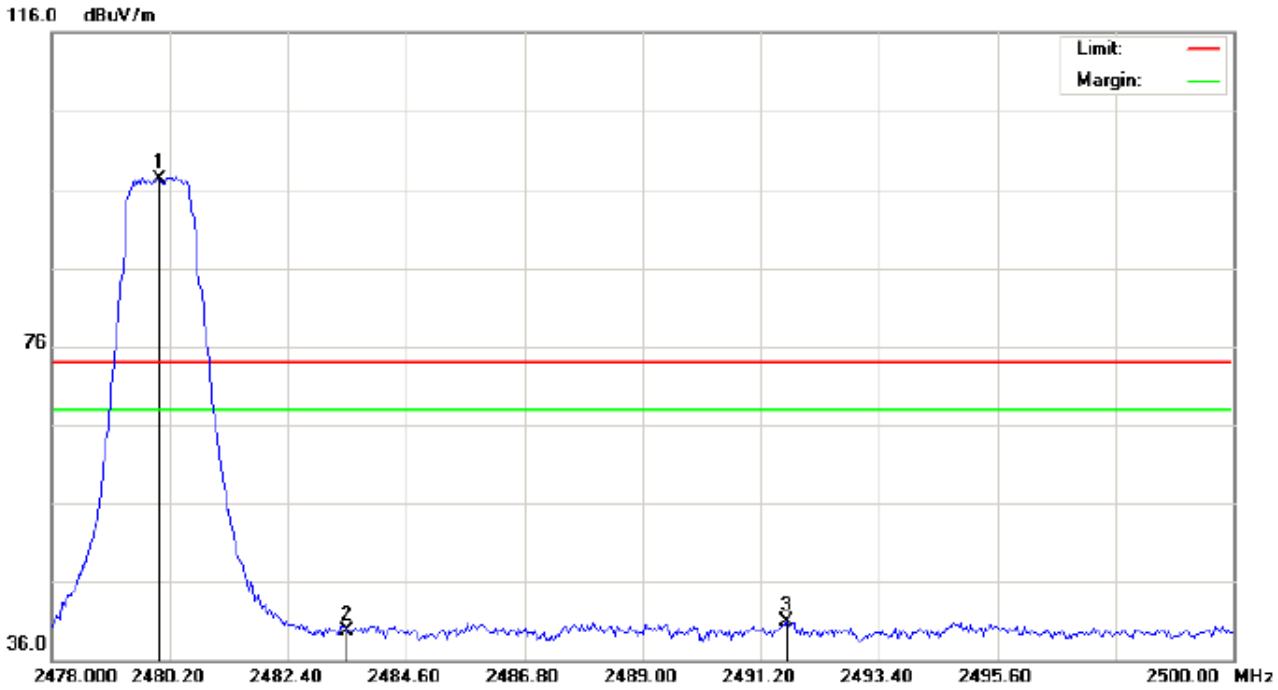
Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
Mode: High Channel TX
Note:

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	87.05	10.41	97.46	74.00	23.46	peak			
2		2483.500	29.69	10.41	40.10	74.00	-33.90	peak			
3		2492.593	30.13	10.42	40.55	74.00	-33.45	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Earphone
M/N: E07
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	29.26	10.41	39.67	74.00	-34.33	peak			
3		2491.677	30.43	10.42	40.85	74.00	-33.15	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.

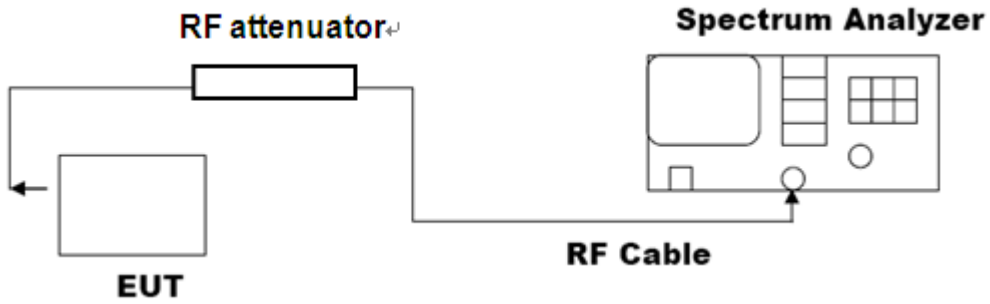
10. 20DB BANDWIDTH

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)



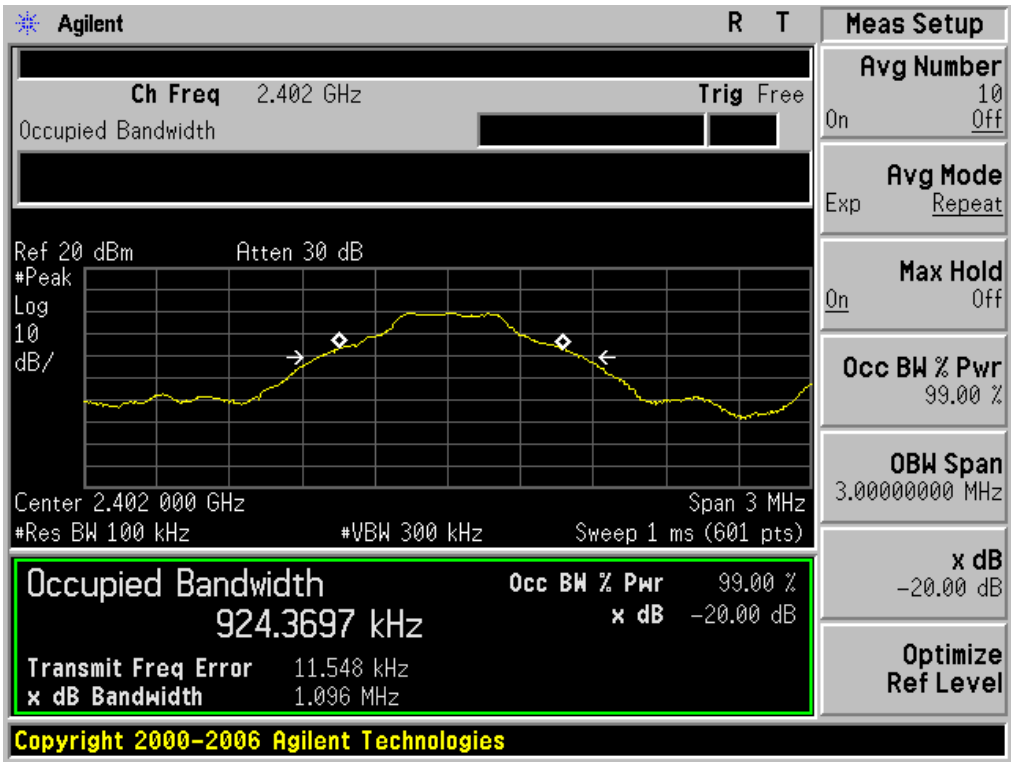
Note: The EUT has been used temporary antenna connector for testing.

10.3. LIMITS AND MEASUREMENT RESULTS

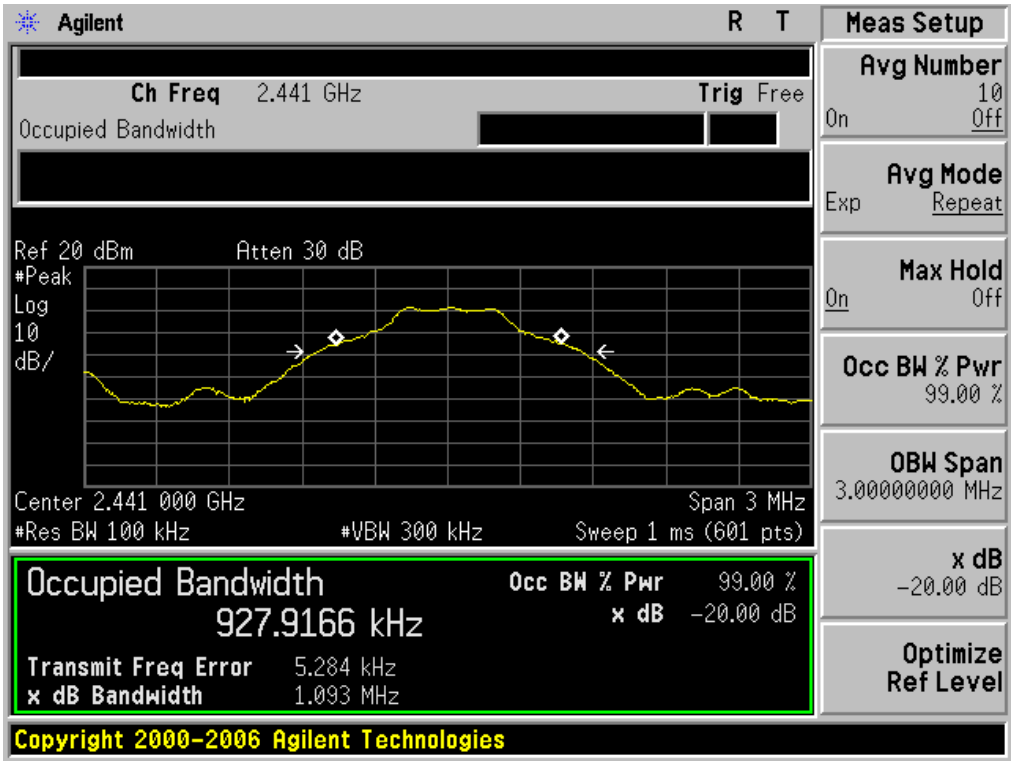
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)	99%OBW (MHz)	-20dB BW(MHZ)	Result
N/A	Low Channel	0.924	1.096	PASS
	Middle Channel	0.928	1.093	PASS
	High Channel	0.929	1.092	PASS

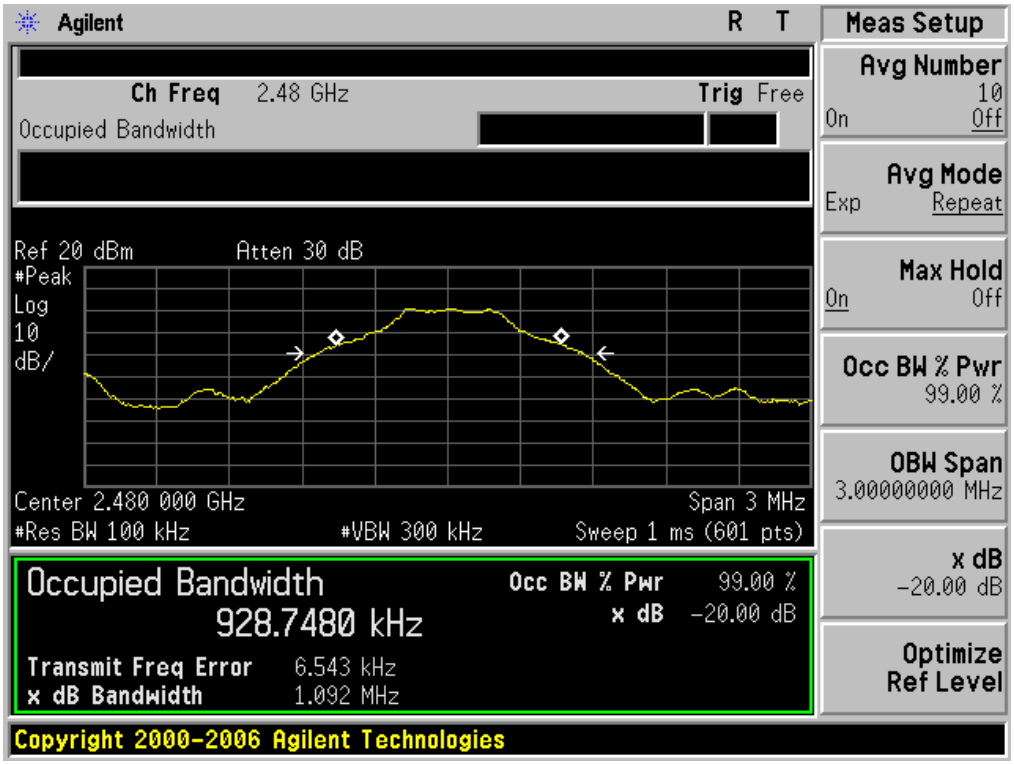
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

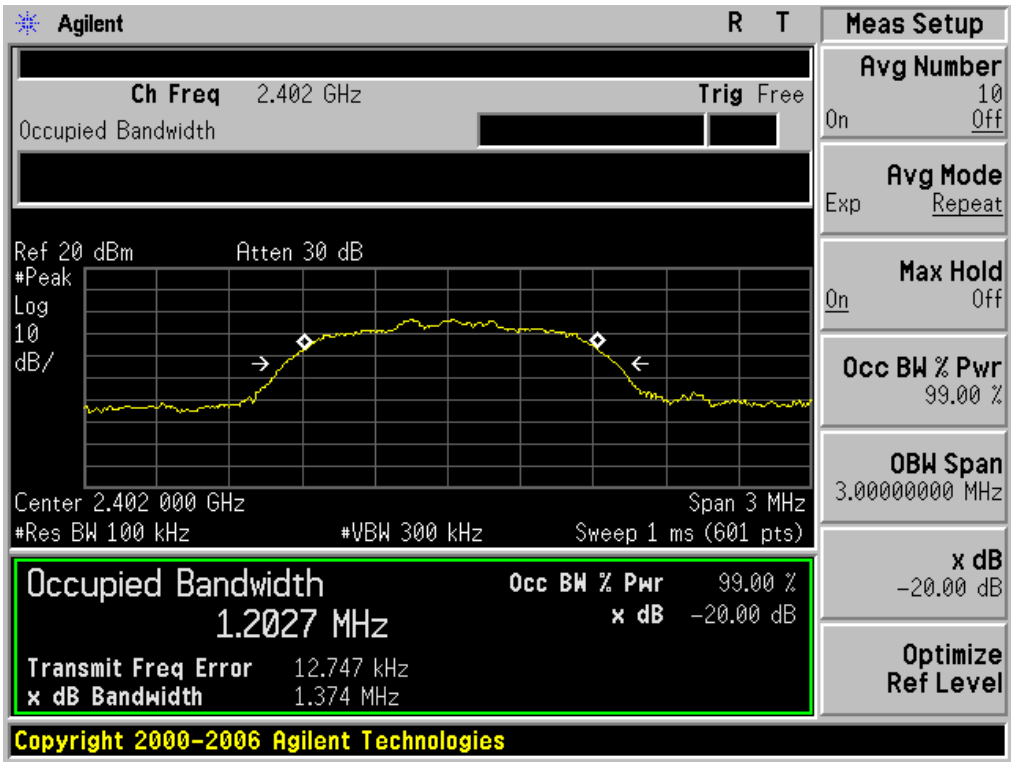


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

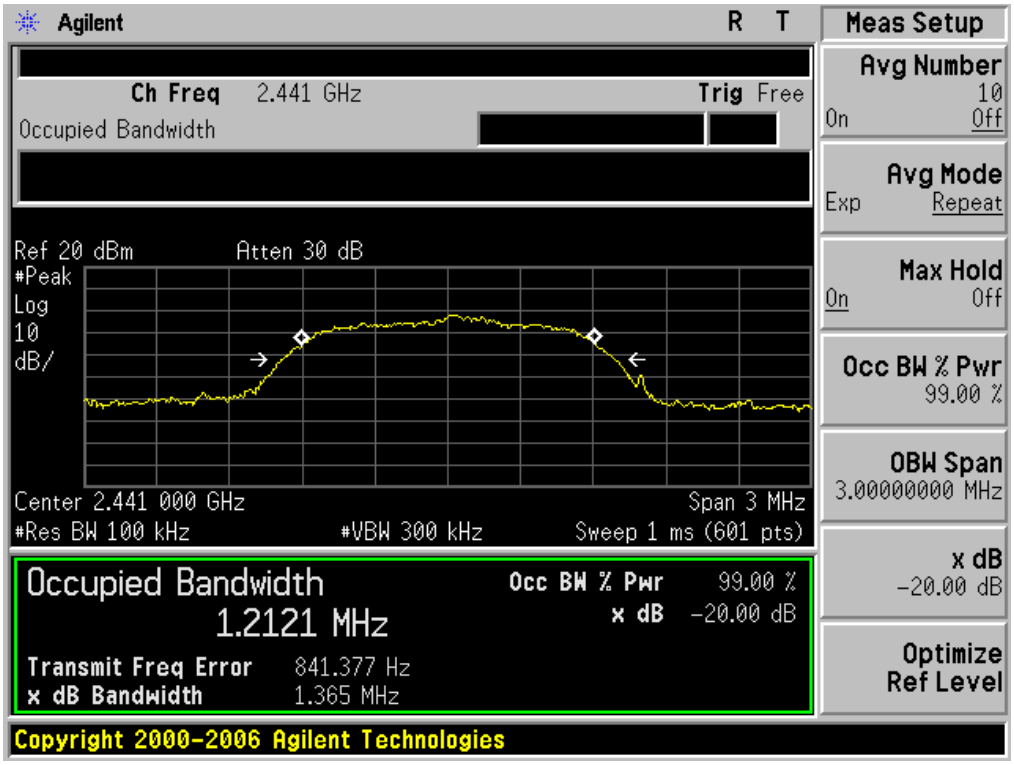


BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)	99%OBW (MHz)	-20dB BW(MHZ)	Result
N/A	Low Channel	1.203	1.374	PASS
	Middle Channel	1.212	1.365	PASS
	High Channel	1.208	1.368	PASS

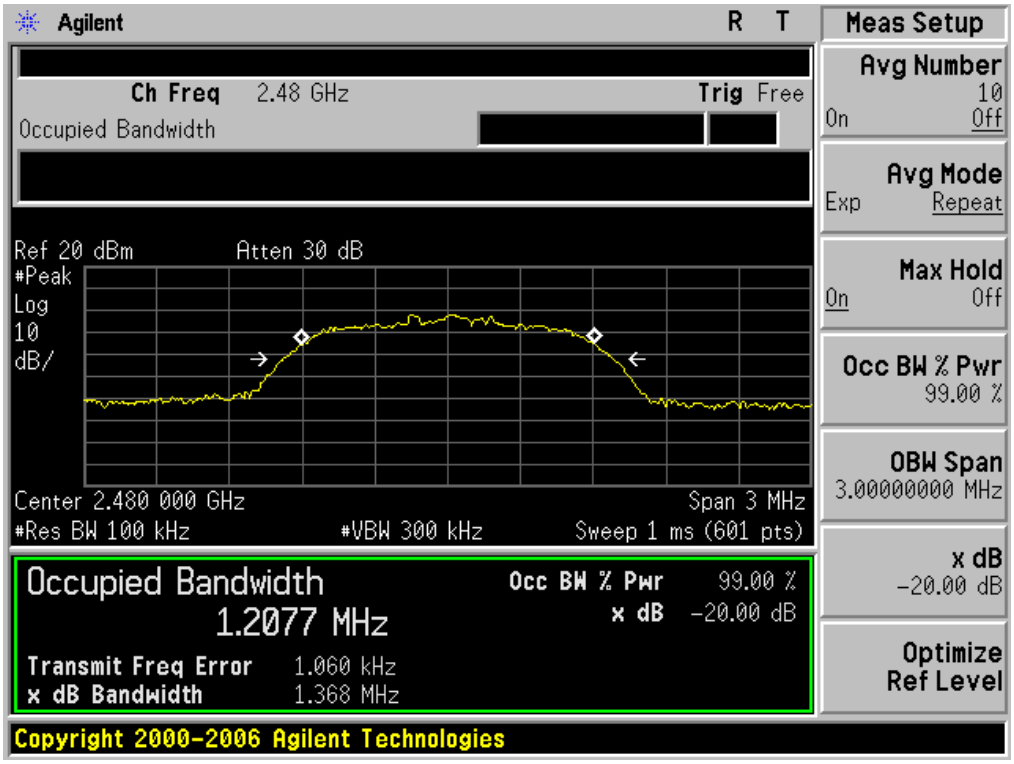
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

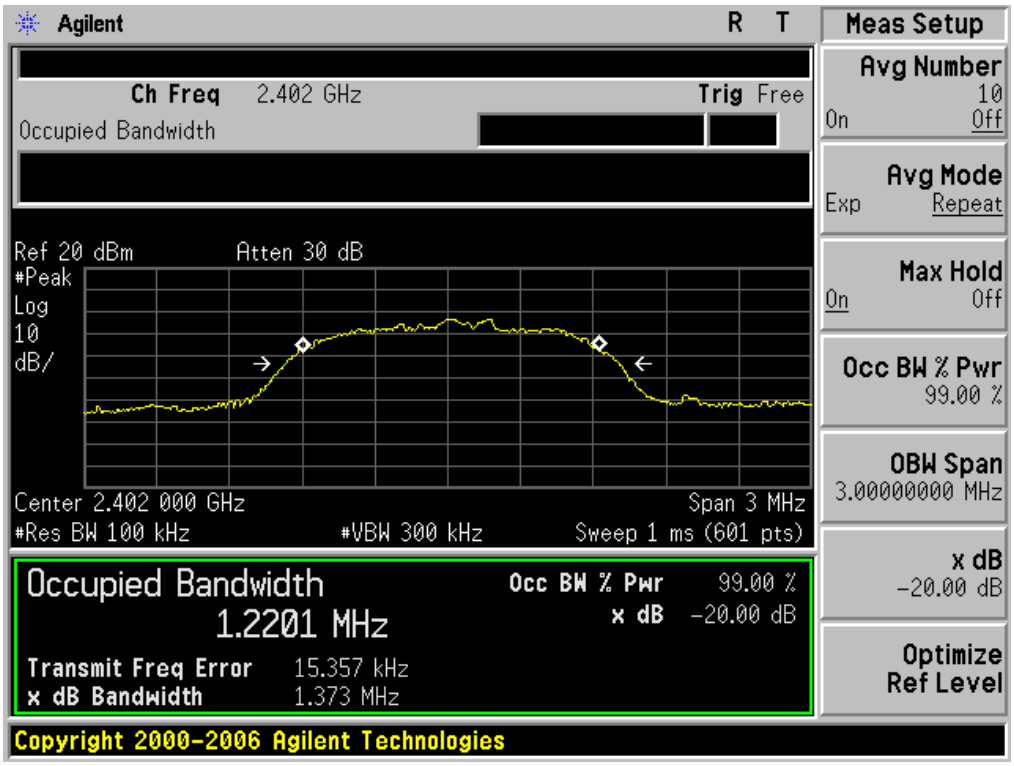


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

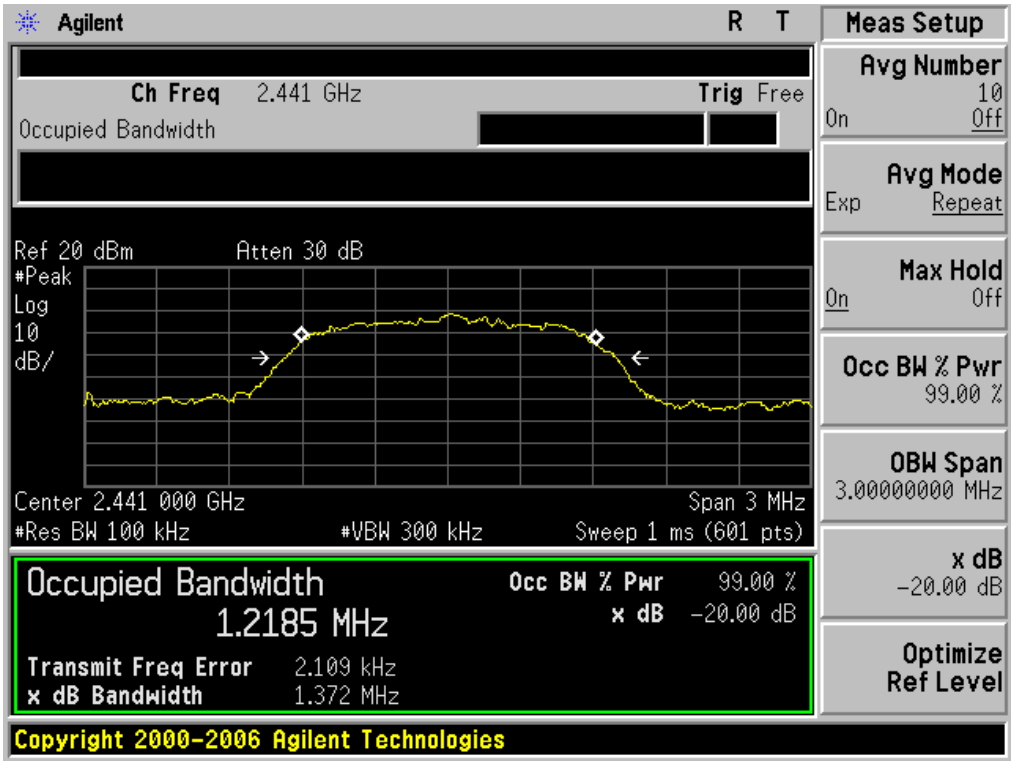


BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)	99%OBW (MHz)	-20dB BW(MHZ)	Result
N/A	Low Channel	1.220	1.373	PASS
	Middle Channel	1.219	1.372	PASS
	High Channel	1.215	1.384	PASS

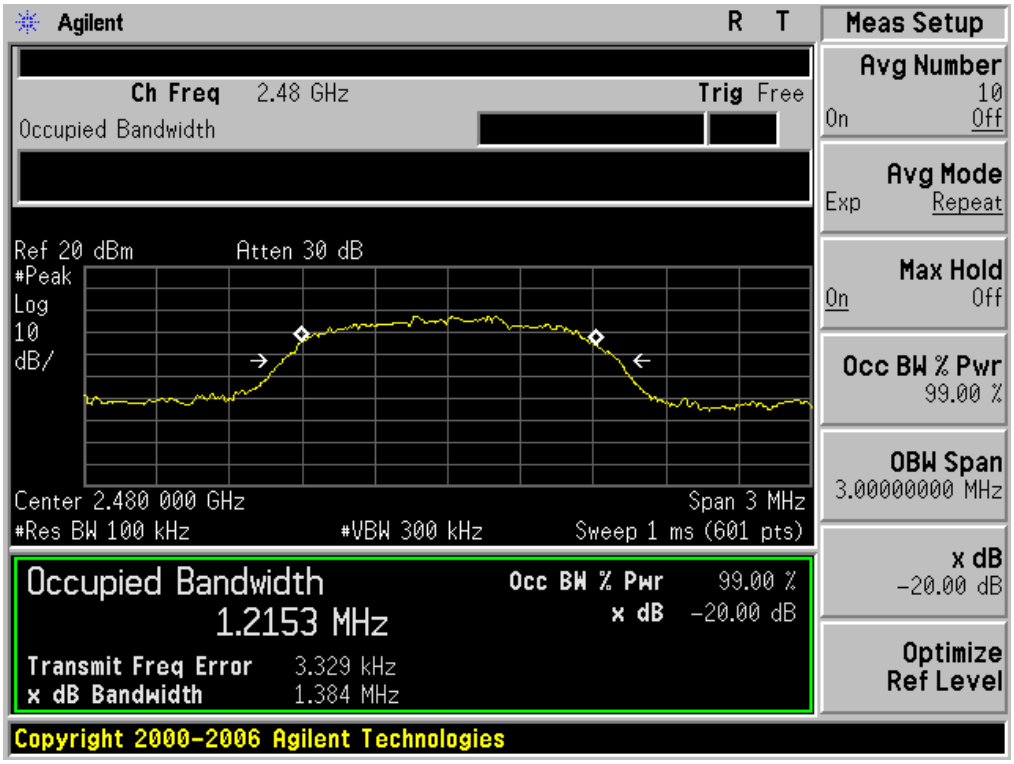
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



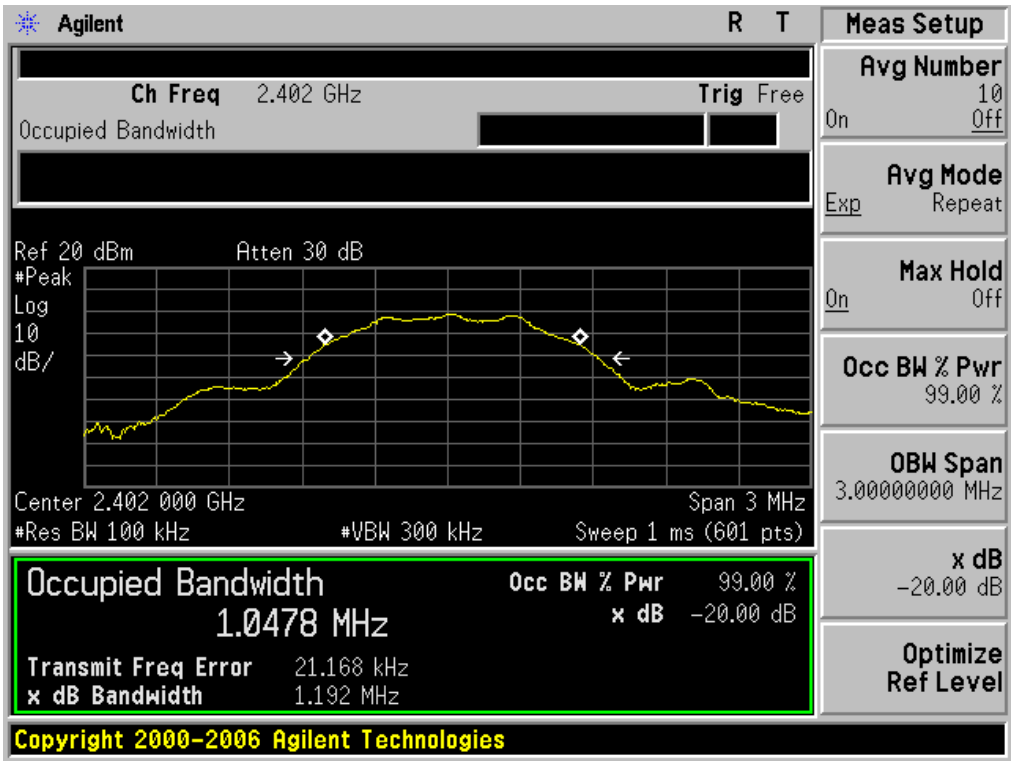
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



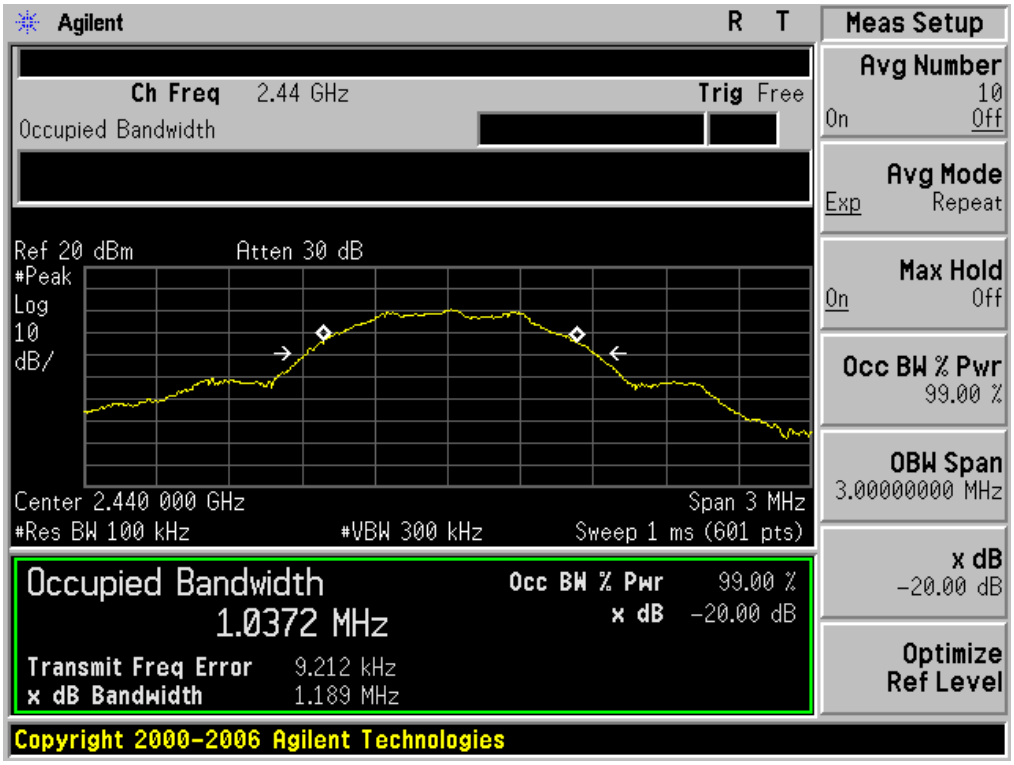
FOR BLE

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	**Measurement Result**			
	Test Data (MHz)	**99%OBW (MHz)**	**-20dB BW(MHZ)**	**Result**
N/A	Low Channel	1.048	1.192	PASS
	Middle Channel	1.037	1.189	PASS
	High Channel	1.047	1.210	PASS

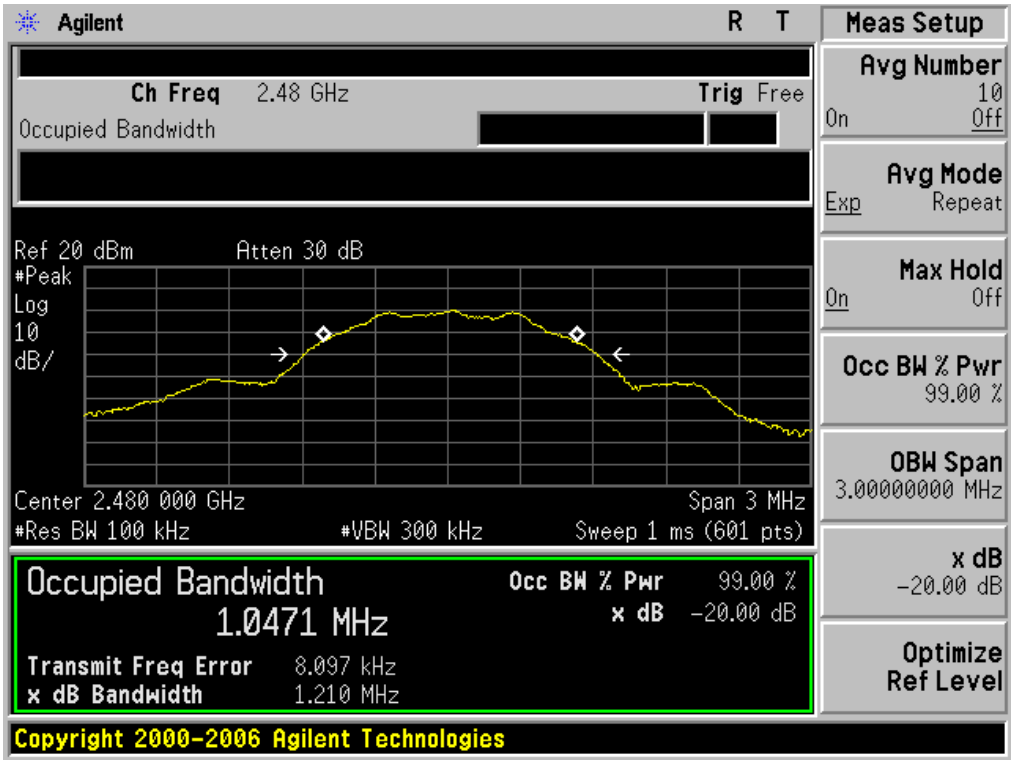
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



11. FCC LINE CONDUCTED EMISSION TEST

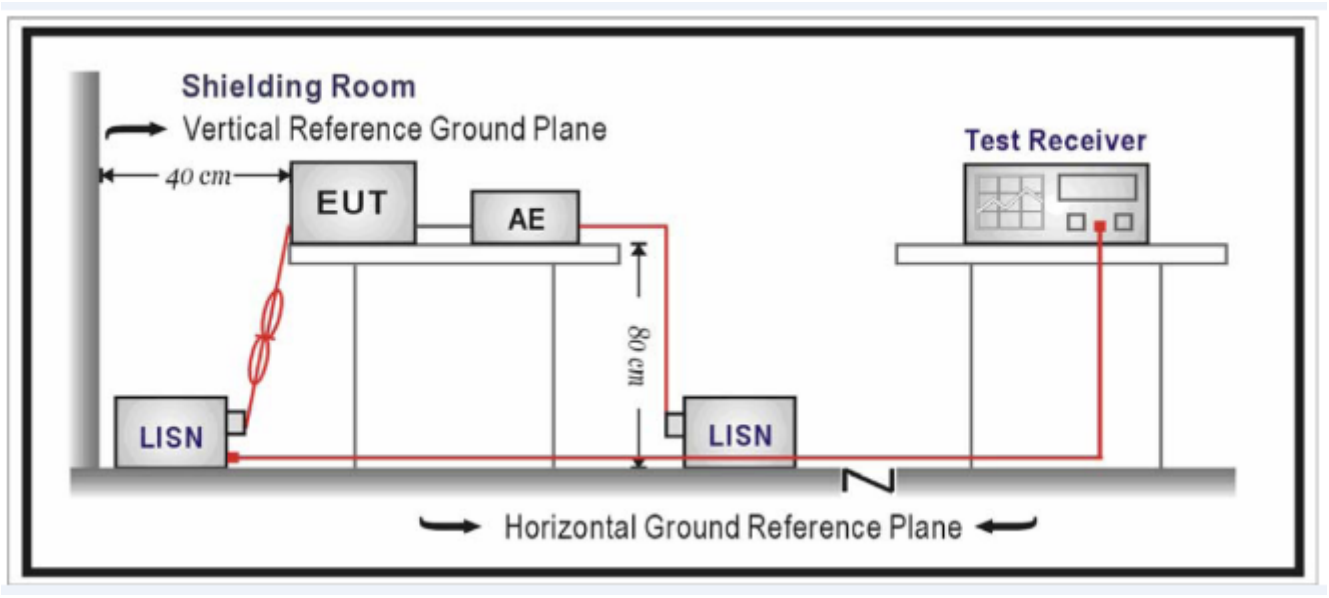
11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

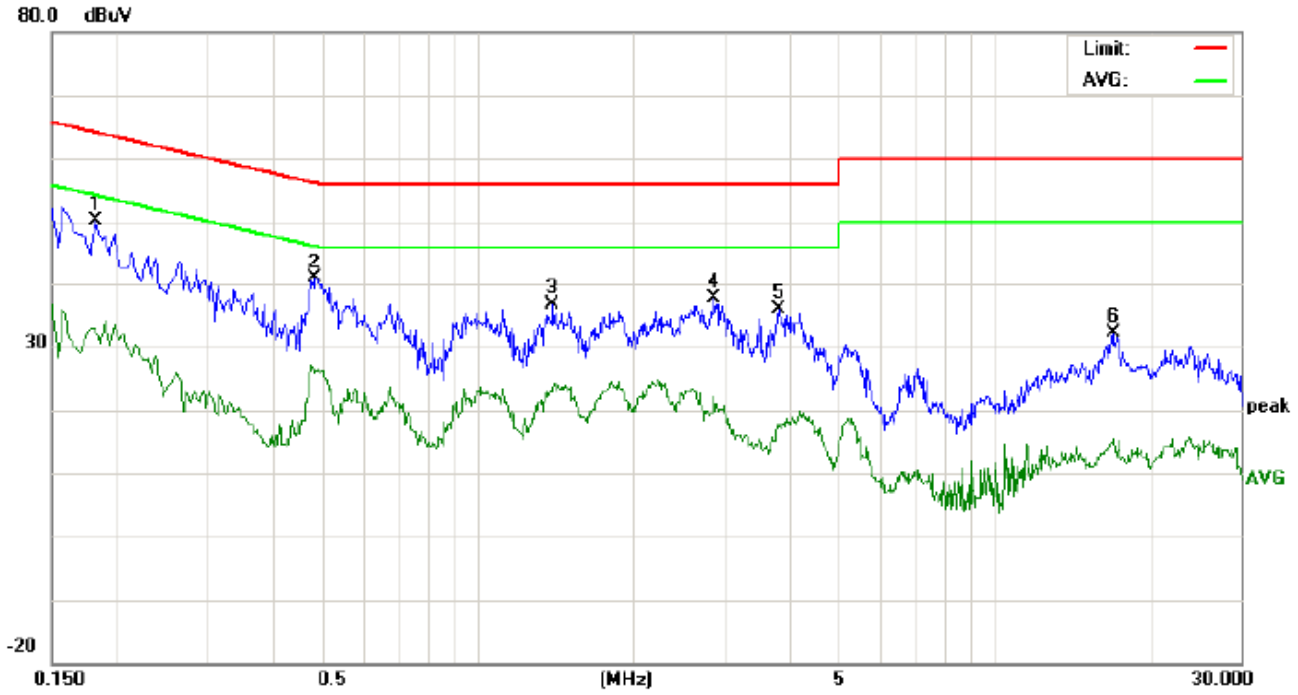
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



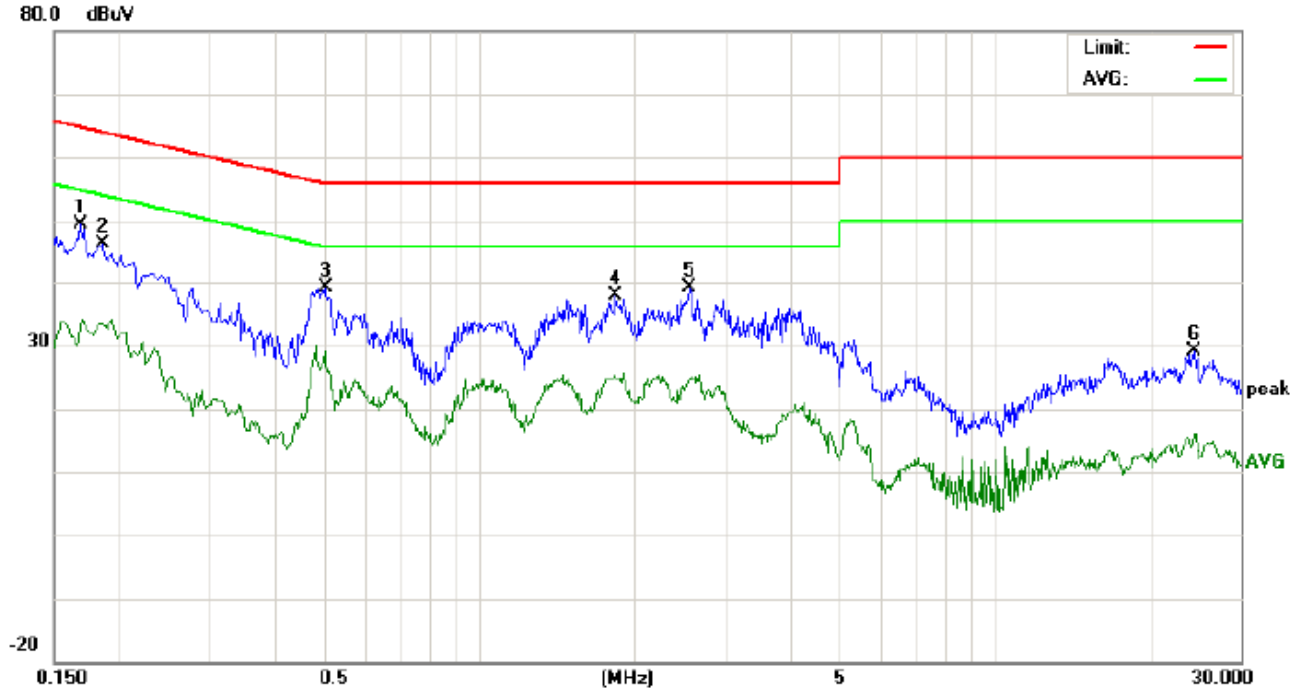
Site: Conduction
Limit: FCC Class B Conduction(QP)
EUT: Bluetooth Earphone
M/N: E07
Mode: BT Link with charging
Note:

Phase: *L1*
Power:

Temperature: 22.5
Humidity: 53.1 %

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1819	39.95		22.67	10.20	50.15		32.87	64.39	54.39	-14.24	-21.52	P	
2	0.4860	30.59		15.59	10.39	40.98		25.98	56.24	46.24	-15.26	-20.26	P	
3	1.4020	26.22		13.02	10.38	36.60		23.40	56.00	46.00	-19.40	-22.60	P	
4	2.8780	27.00		11.56	10.52	37.52		22.08	56.00	46.00	-18.48	-23.92	P	
5	3.8300	25.35		6.84	10.46	35.81		17.30	56.00	46.00	-20.19	-28.70	P	
6	17.0099	21.92		5.06	10.13	32.05		15.19	60.00	50.00	-27.95	-34.81	P	

Line Conducted Emission Test Line 2-N

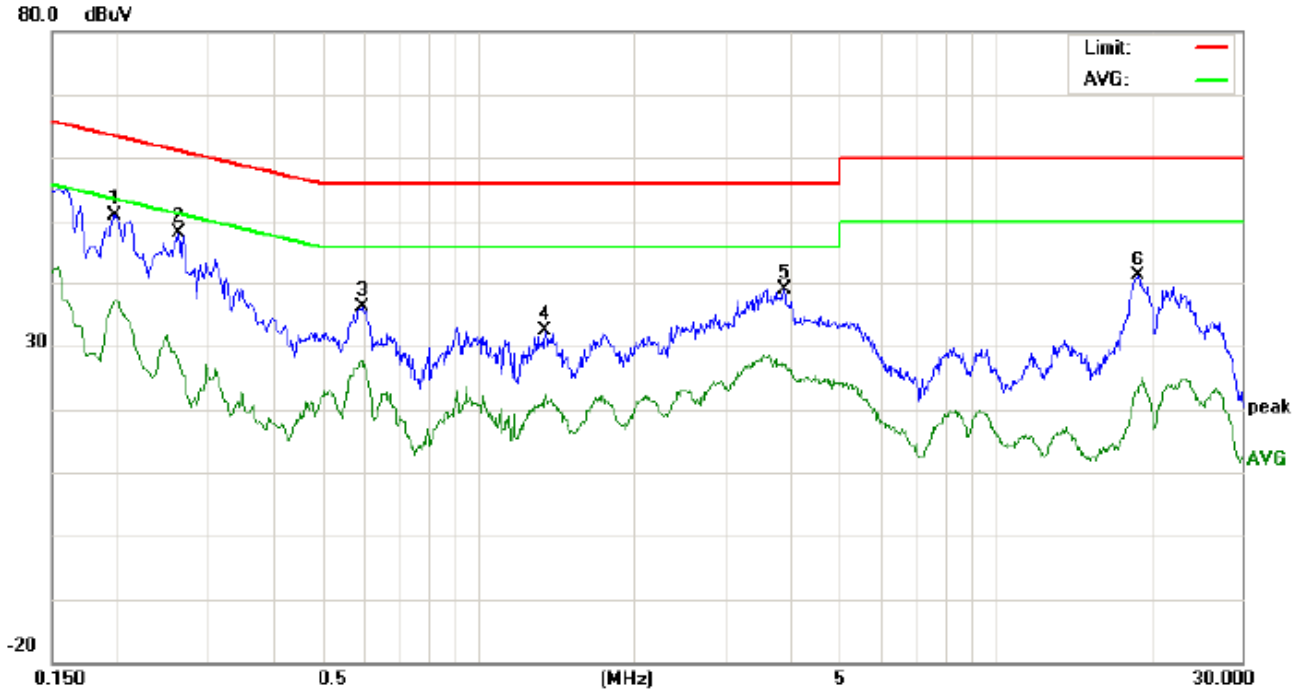


Site: Conduction
Phase: N
Temperature: 22.5
Limit: FCC Class B Conduction(QP)
Power:
Humidity: 53.1 %
EUT: Bluetooth Earphone
M/N: E07
Mode: BT Link with charging
Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1685	39.19		22.36	10.18	49.37		32.54	65.03	55.03	-15.66	-22.49	P	
2	0.1860	36.08		23.26	10.20	46.28		33.46	64.21	54.21	-17.93	-20.75	P	
3	0.5020	28.63		18.73	10.40	39.03		29.13	56.00	46.00	-16.97	-16.87	P	
4	1.8420	27.73		14.93	10.27	38.00		25.20	56.00	46.00	-18.00	-20.80	P	
5	2.5540	28.78		14.30	10.44	39.22		24.74	56.00	46.00	-16.78	-21.26	P	
6	24.4820	18.96		6.07	10.11	29.07		16.18	60.00	50.00	-30.93	-33.82	P	

FOR BLE

Line Conducted Emission Test Line 1-L



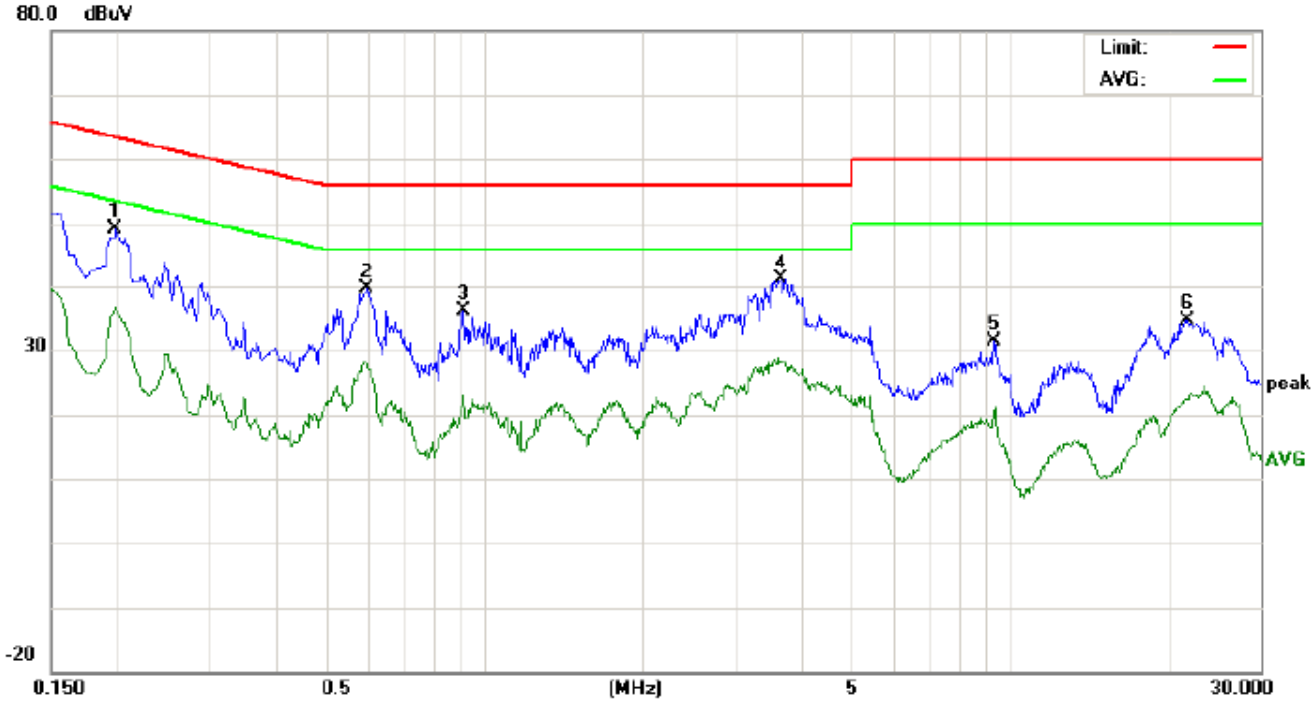
Site: Conduction
Limit: FCC Class B Conduction(QP)
EUT: Bluetooth Earphone
M/N: E07
Mode: BT Link with charging
Note:

Phase: *L1*
Power:

Temperature: 22.5
Humidity: 53.1 %

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1980	40.72		27.02	10.21	50.93		37.23	63.69	53.69	-12.76	-16.46	P	
2	0.2630	37.82		17.46	10.27	48.09		27.73	61.33	51.33	-13.24	-23.60	P	
3	0.5980	25.77		16.49	10.31	36.08		26.80	56.00	46.00	-19.92	-19.20	P	
4	1.3500	21.97		11.74	10.38	32.35		22.12	56.00	46.00	-23.65	-23.88	P	
5	3.9060	28.51		16.75	10.44	38.95		27.19	56.00	46.00	-17.05	-18.81	P	
6	18.8939	31.07		12.50	10.12	41.19		22.62	60.00	50.00	-18.81	-27.38	P	

Line Conducted Emission Test Line 2-N



Site: Conduction
Limit: FCC Class B Conduction(QP)
EUT: Bluetooth Earphone
M/N: E07
Mode: BT Link with charging
Note:

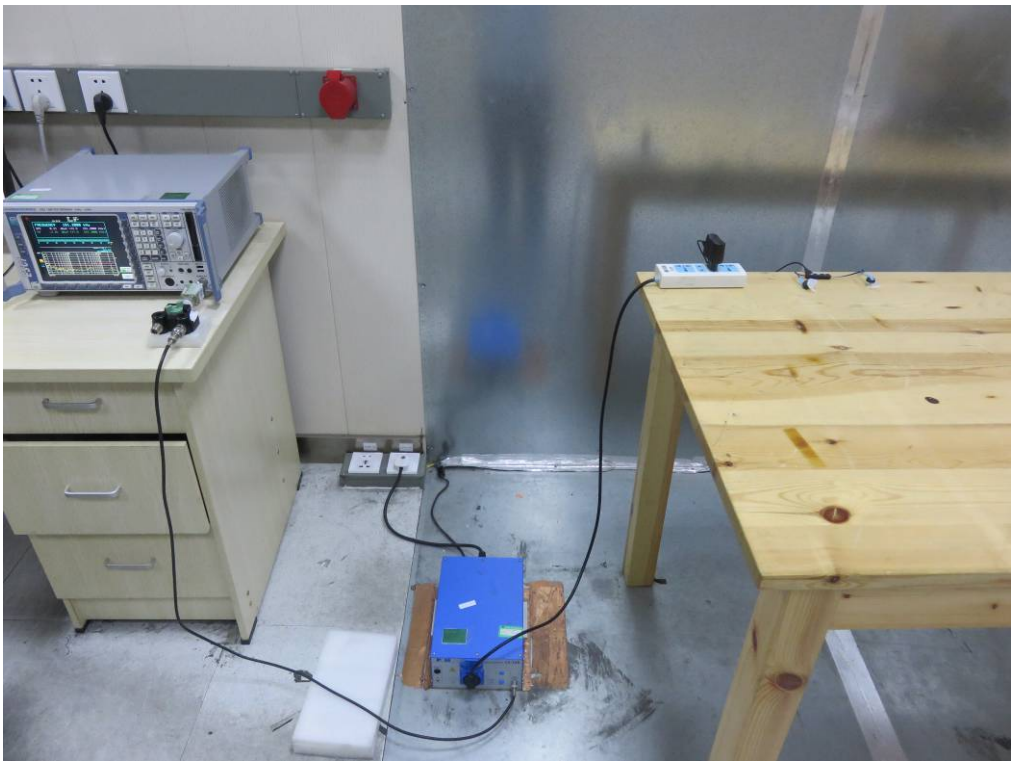
Phase: *N*
Power:

Temperature: 22.5
Humidity: 53.1 %

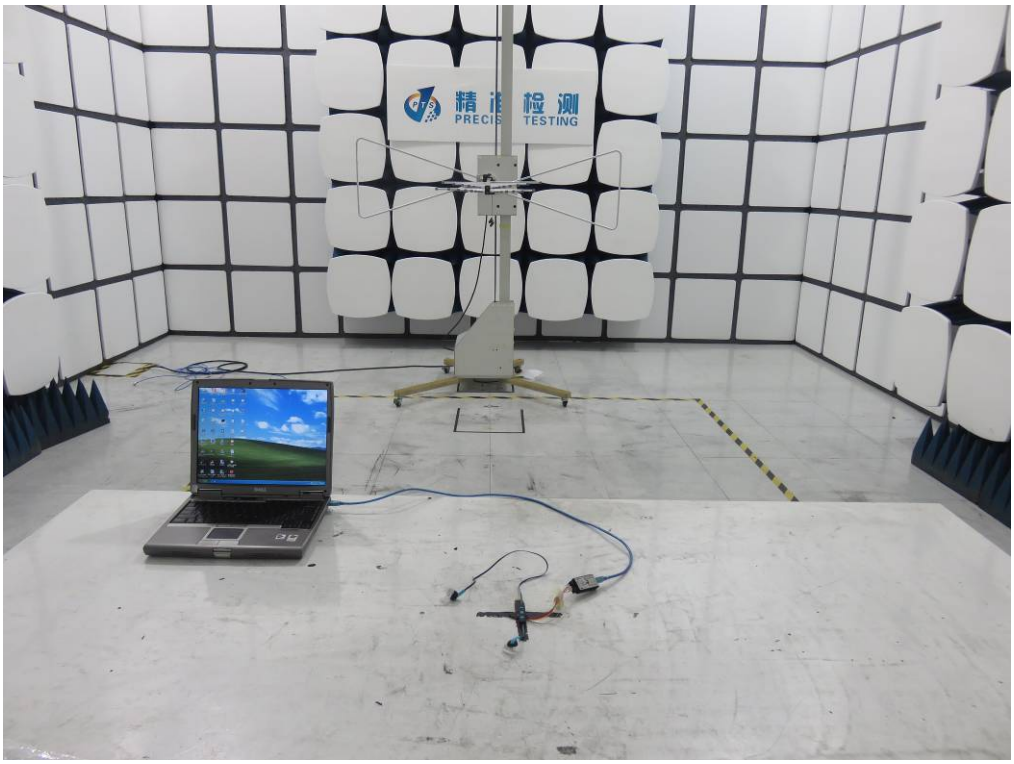
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1985	38.93		26.15	10.21	49.14		36.36	63.67	53.67	-14.53	-17.31	P	
2	0.5979	29.29		17.07	10.31	39.60		27.38	56.00	46.00	-16.40	-18.62	P	
3	0.9180	25.65		12.78	10.40	36.05		23.18	56.00	46.00	-19.95	-22.82	P	
4	3.6619	30.63		17.59	10.48	41.11		28.07	56.00	46.00	-14.89	-17.93	P	
5	9.3419	20.92		10.02	10.33	31.25		20.35	60.00	50.00	-28.75	-29.65	P	
6	21.8099	24.56		12.25	10.12	34.68		22.37	60.00	50.00	-25.32	-27.63	P	

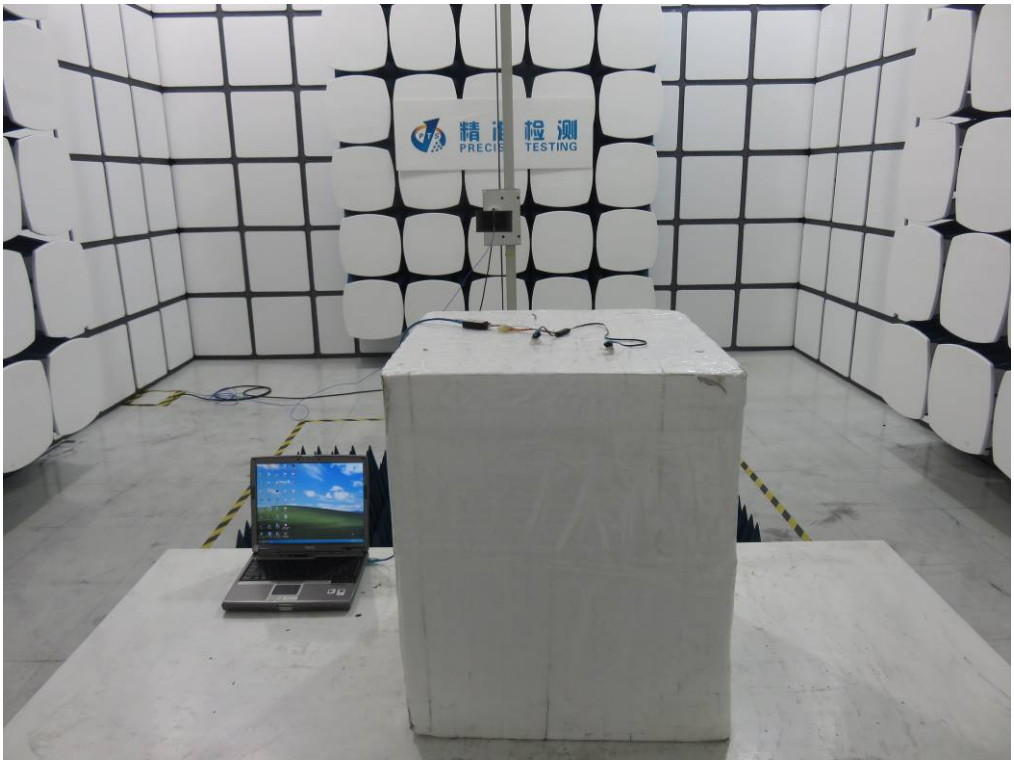
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



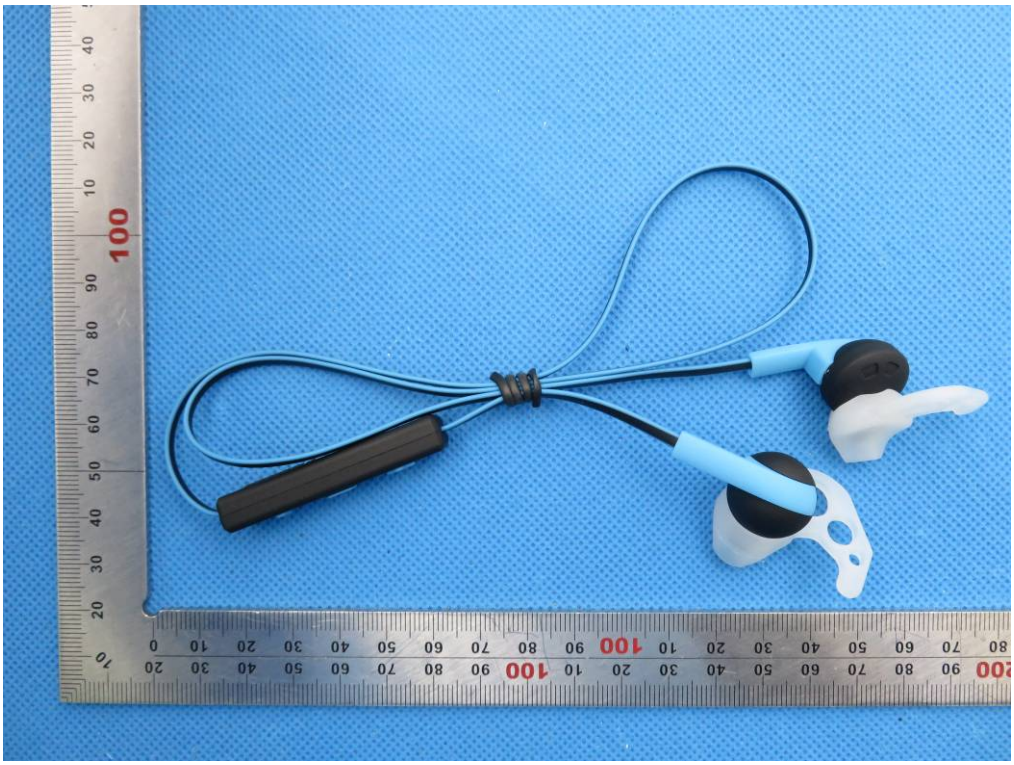
FCC RADIATED EMISSION TEST SETUP



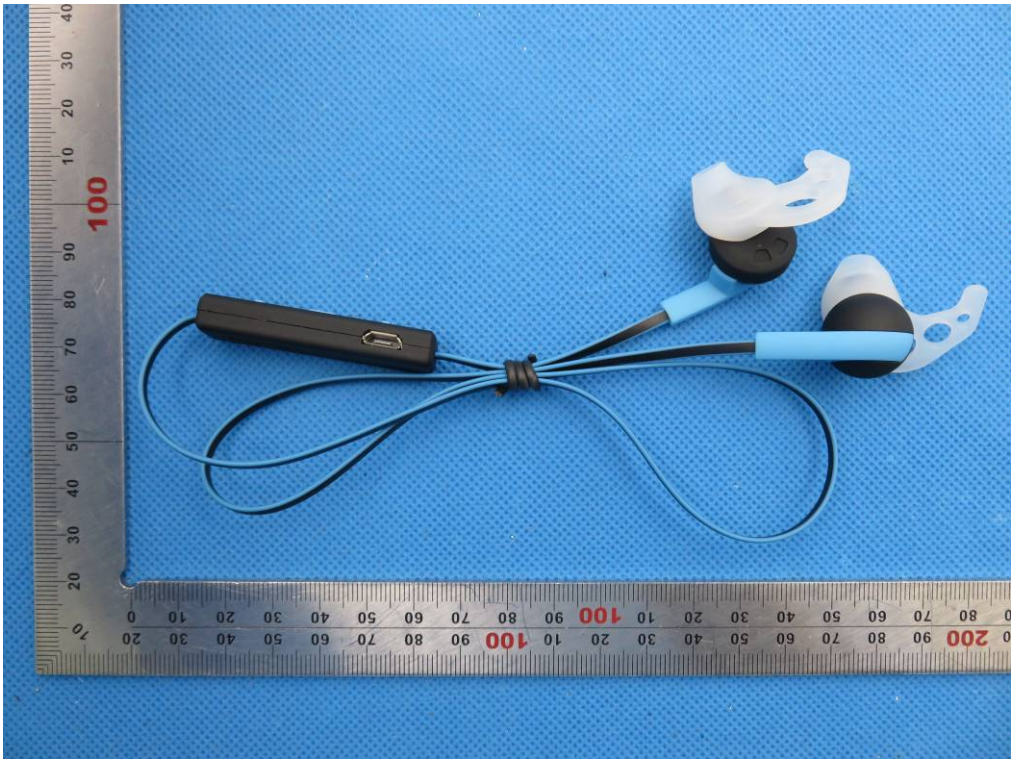

精准 检测
PRECIS TESTING

APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT

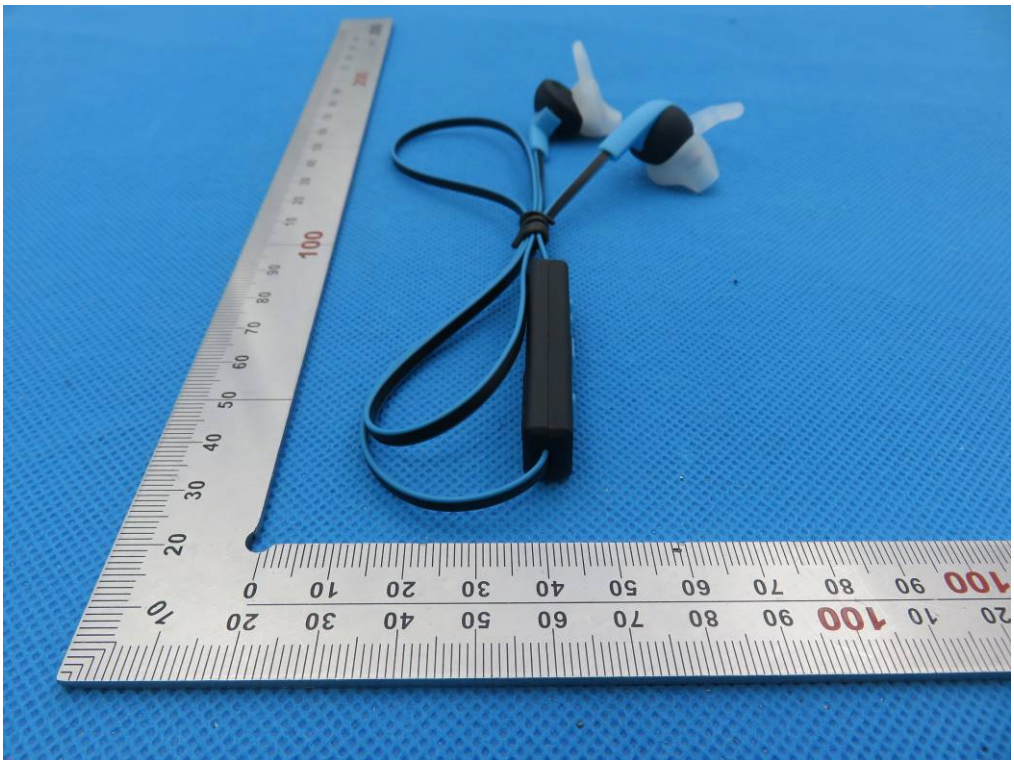


BOTTOM VIEW OF EUT

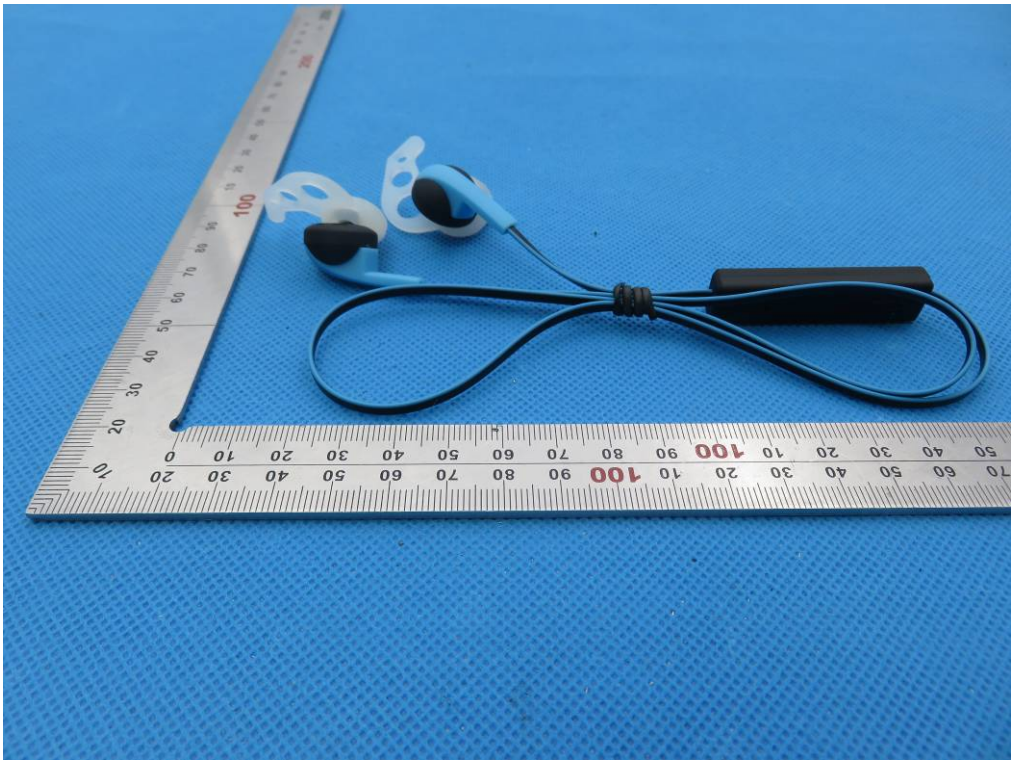


FRONT VIEW OF EUT

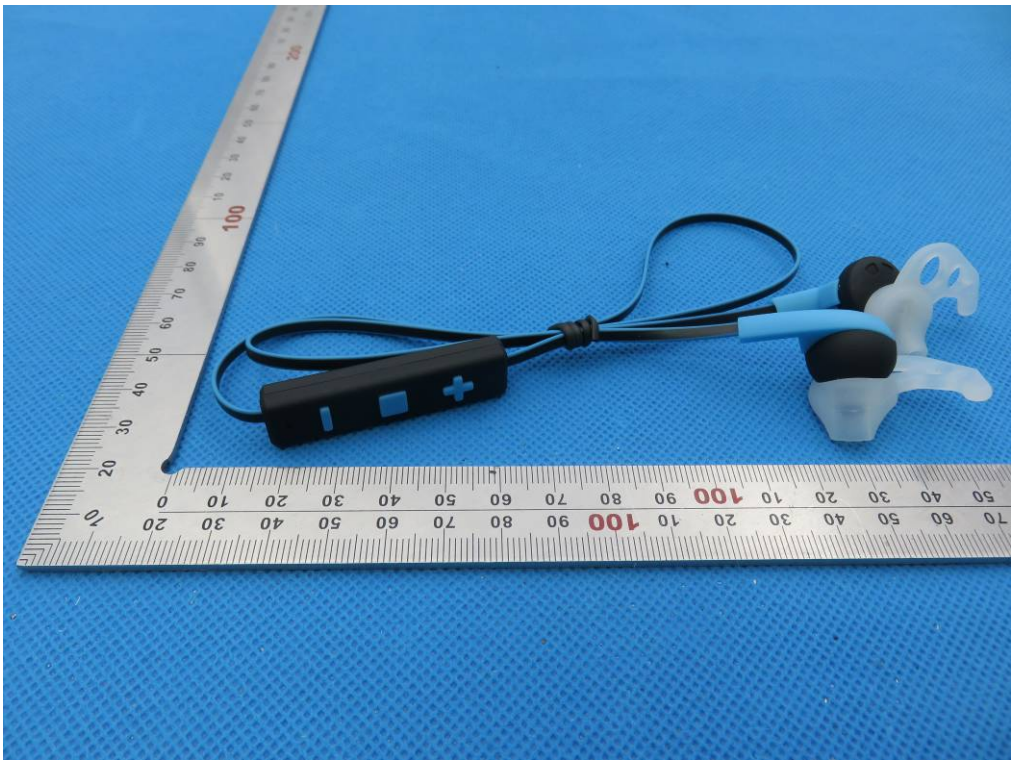
BACK VIEW OF EUT



LEFT VIEW OF EUT

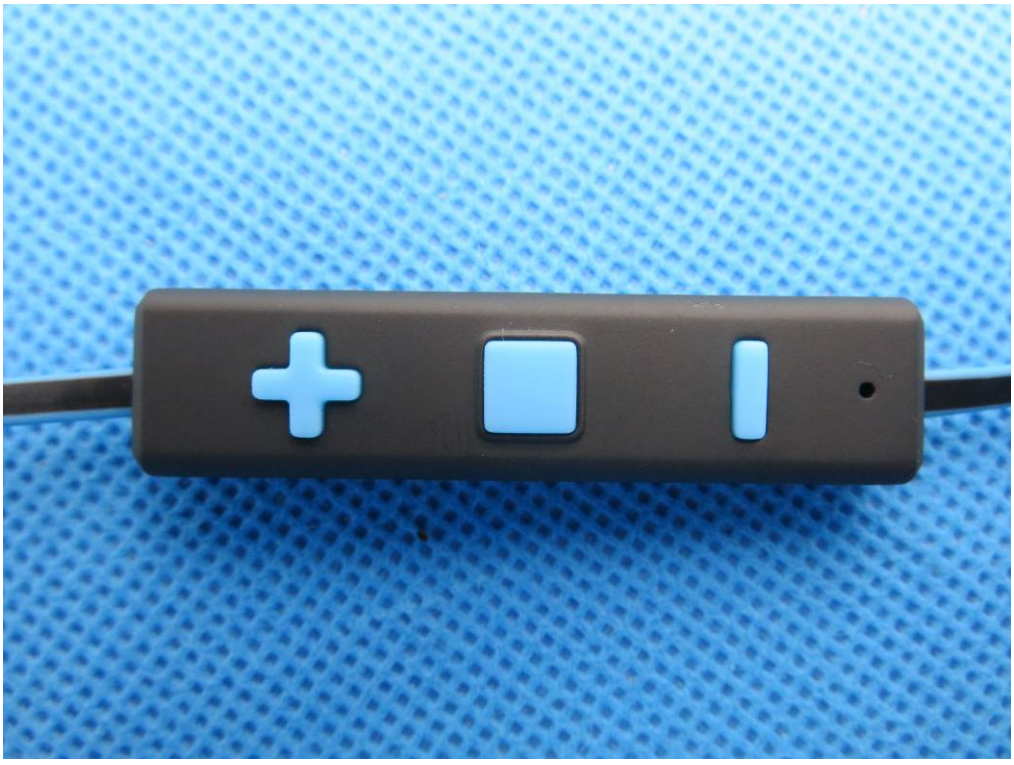


RIGHT VIEW OF EUT

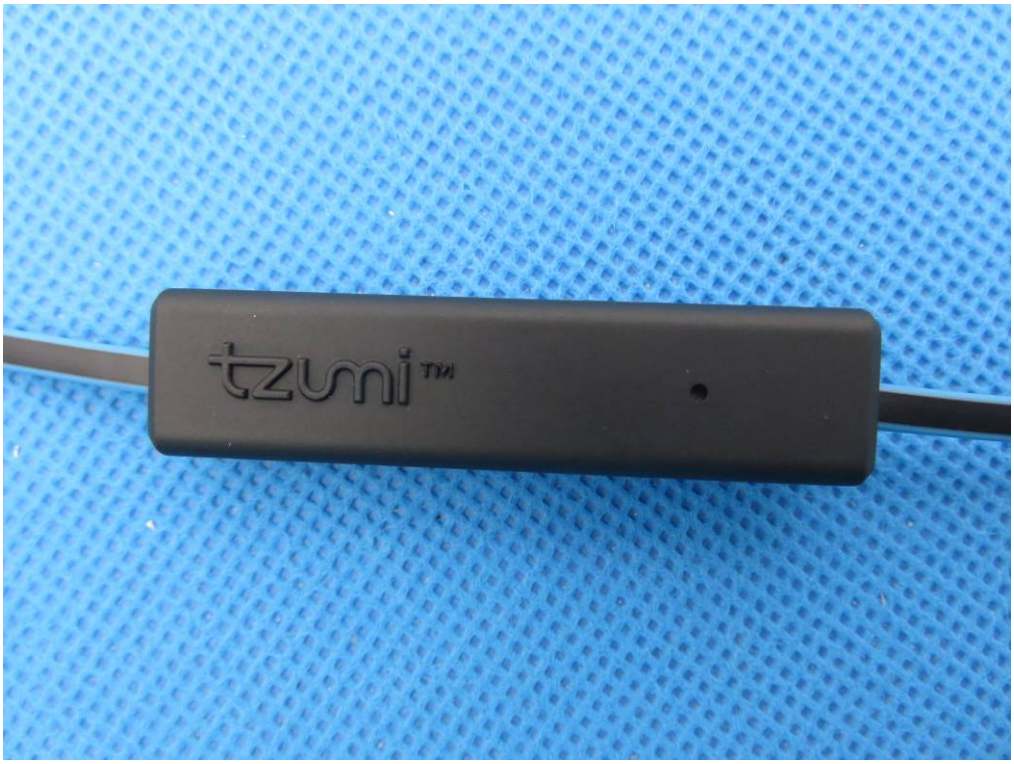


VIEW OF EUT (PORT)

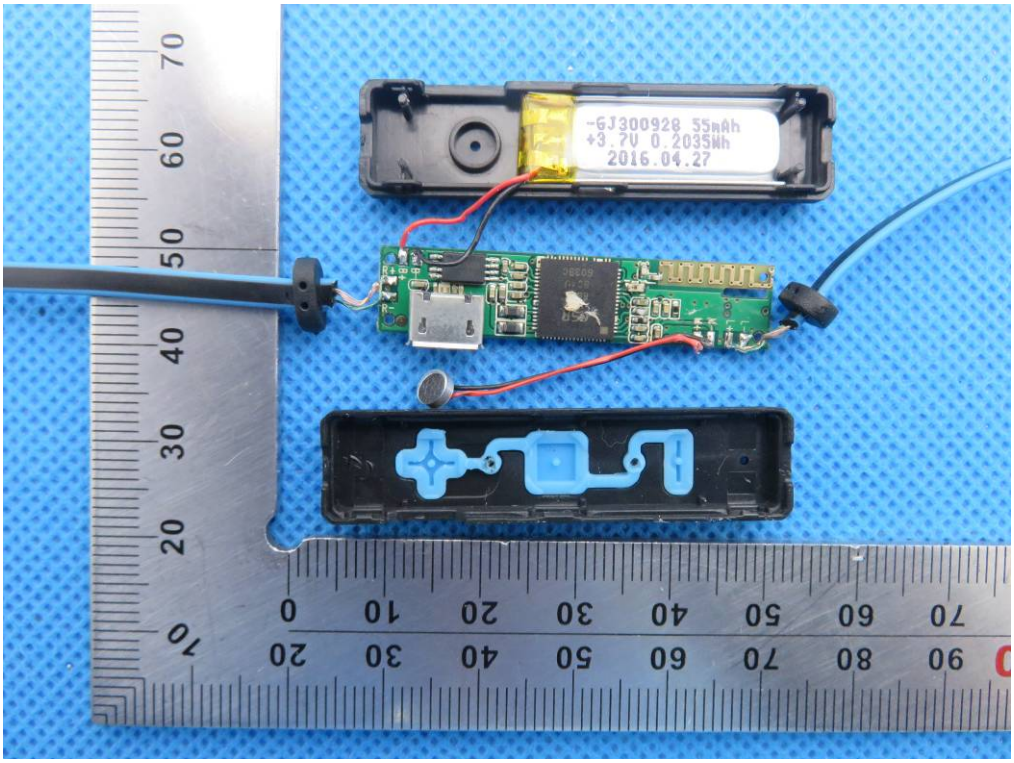
VIEW OF EUT (LOCAL)



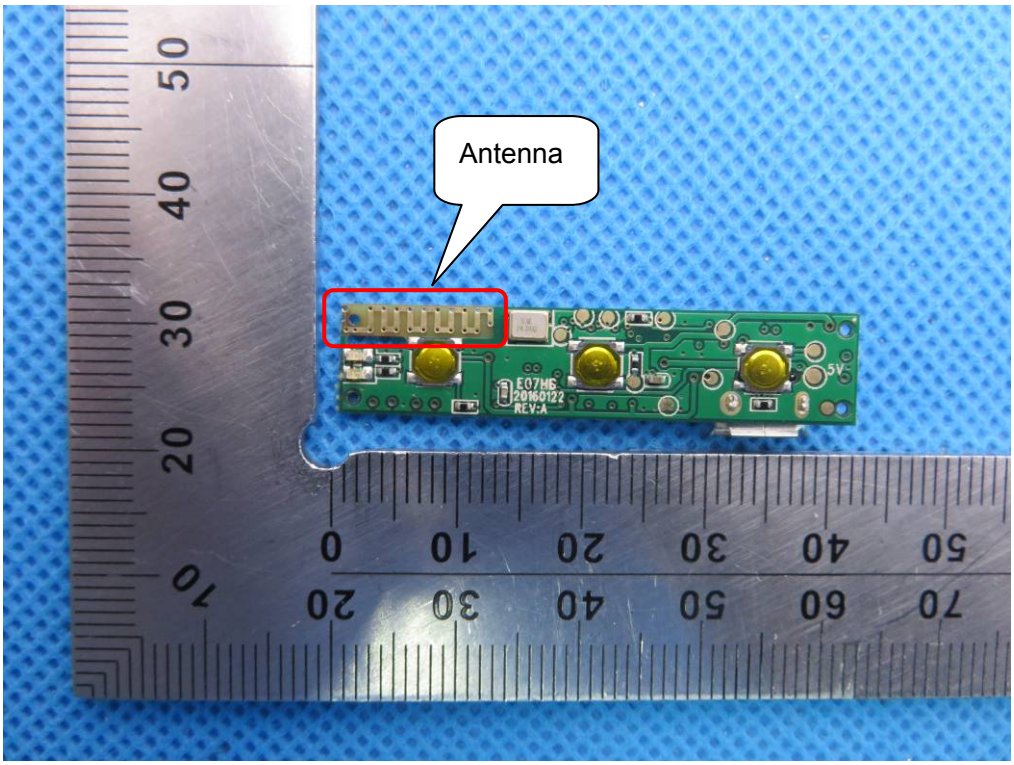
VIEW OF EUT (LOCAL)



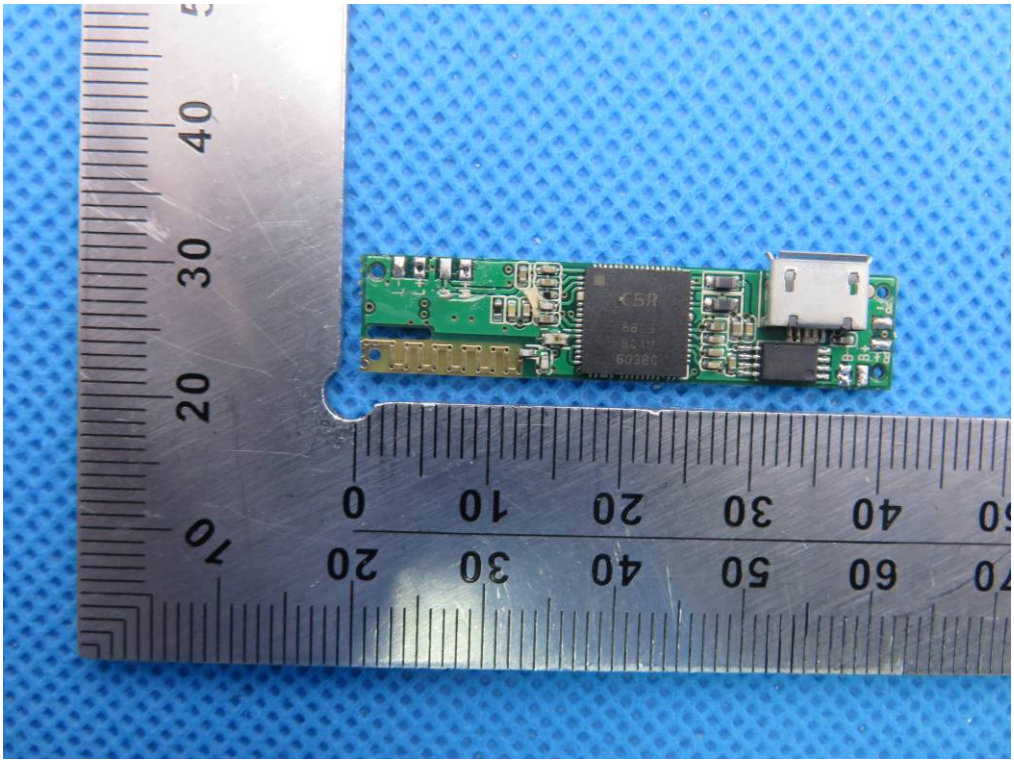
OPEN VIEW OF EUT



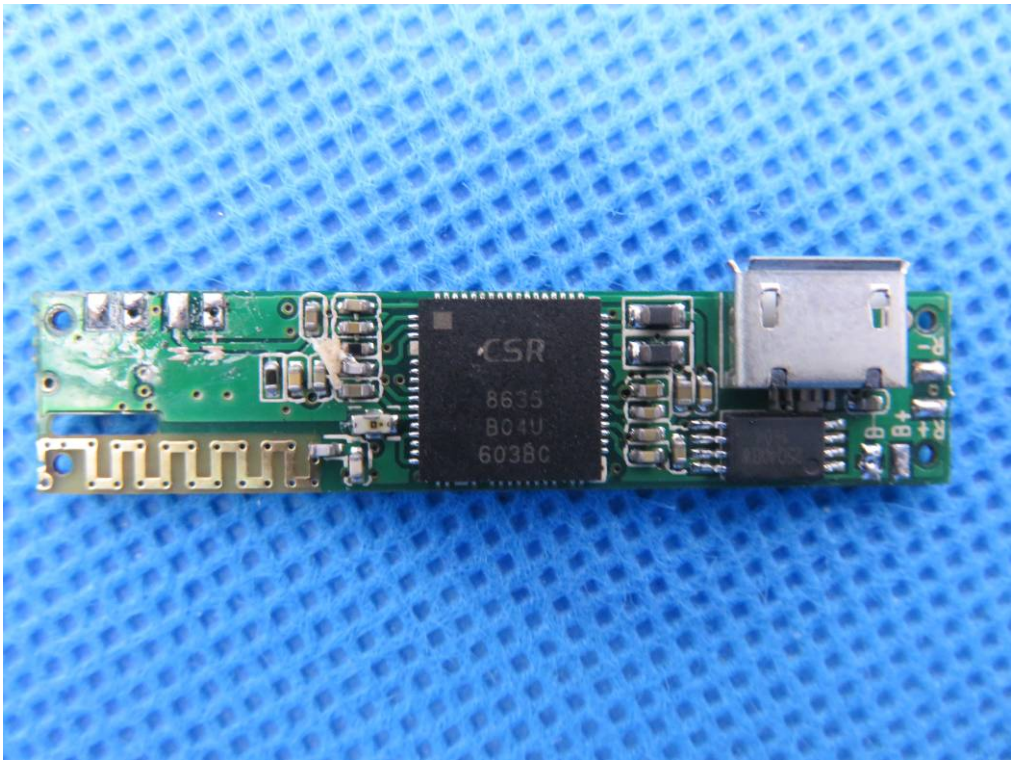
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----