FCC RADIO TEST REPORT FCC ID: 2ACDUTRE704

Product: Sport Bluetooth Earphones

Trade Name: DEFENDER

Model Name: Trendy 704

Serial Model: Basic 616, Basic 610, Basic 609, Pulse 427, Pulse

428, Trendy 702, Trendy 705, Trendy 707

Report No.: BZT-17041209F

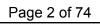
Prepared for

Shenzhen Nomick Electronic Technology Co.,Ltd

3F Huada Building, Gushu, Xixiang, Baoan district, Shenzhen, China

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TEST RESULT CERTIFICATION

	Shenzhen Nomick Electronic Technology Co.,Ltd 3F Huada Building,Gushu,Xixiang, Baoan district,Shenzhen,China			
Manufacture's Name:	Shenzhen Nomick Electronic Technology Co.,Ltd			
Address:	3F Huada Building,Gushu,Xixiang, Baoan district,Shenzhen,China			
Product description				
Product name:	Sport Bluetooth Earphones			
Standards:	FCC Part15.247			
Test procedure	ANSI C63.10: 2013			
	as been tested by BZT, and the test results show that the equipment ce with the FCC requirements. And it is applicable only to the tested			
·	iced except in full, without the written approval of BZT, this vised by BZT, personal only, and shall be noted in the revision of the			
Date of Test	:			
Date (s) of performance of tests				
Date of Issue				
Test Result	Pass			
Testing Engi	(Lynn Chen)			
	(Lynn Chen)			
Technical M	(a) of w			
	(Carlen Liu)			
Authorized				
Signatory	Towny Lang			
	(Tommy Zhang)			





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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	Peak Output Power	PASS		
15.247(c)	Radiated Spurious Emission	PASS		
15.247(a)(iii)	Number of Hopping Frequency	PASS		
15.247(a)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		



1.1 TEST FACILITY

BZT Testing Technology Co., Ltd.

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen P.R. China

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Sport Bluetooth Earphones			
Trade Name	DEFENDER			
Model Name	Trendy 704			
Serial Model	Basic 616,Basic 610 428,Trendy 702,Trend	D,Basic 609,Pulse 427,Pulse ly 705,Trendy 707		
Model Difference	All the same, Only mode	el name is different.		
	The EUT is a Sport Blue	etooth Earphones		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	BT(1Mbps): GFSK		
		BT EDR(2Mbps): π /4-DQPSK		
		BT EDR(3Mbps): 8-DPSK		
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps		
	Number Of Channel	79 CH		
Product Description	Antenna Designation:	Please see Note 3.		
	Output	BT(1Mbps): -1.185dBm		
	Power(Conducted):	BT EDR(2Mbps): -1.202dBm		
		BT EDR(3Mbps): -1.186dBm		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Channel List	Please refer to the Note 2.			
Adapter	N/A			
Battery	N/A			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





2.

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

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Chip Antenna	N/A	0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Normal Link

For Conducted Emission			
Final Test Mode Description			
Mode 4	Normal Link		

For Radiated Emission			
Final Test Mode Description			
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test
- (3)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

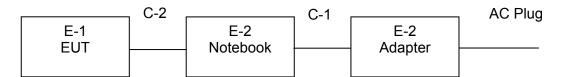
Test software Version	Test program: 6687B				
Frequency	2402 MHz 2441 MHz 2480 MHz				
Parameters(1/2/3Mbps)	DEF DEF DEF				





2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission:



Radiated Emission:

E-1 EUT



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Sport Bluetooth Earphones	N/A	Trendy 704	N/A	EUT
E-2	Notebook	IBM	08K8202	N/A	
E-3	Adapter	IBM	2366	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	80cm	
C-2	NO	NO	40cm	

Note:

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



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment		.) 0	00110111101	calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.12.22	2017.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

EDECLIENCY (MHZ)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Staridard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



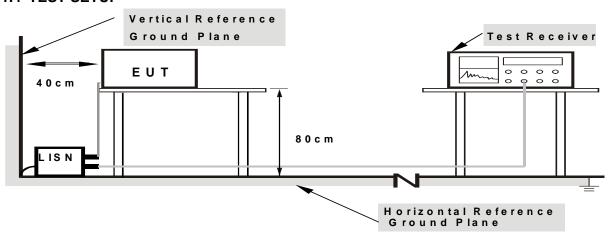
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

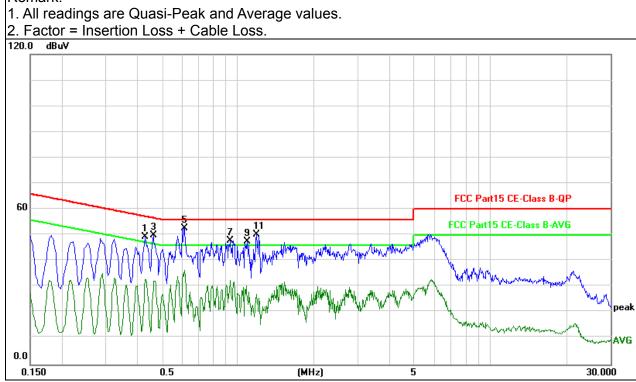


3.1.6 TEST RESULTS

EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.4300	39.33	10.11	49.44	57.25	-7.81	QP
0.4300	22.83	10.11	32.94	47.25	-14.31	AVG
0.4620	39.70	10.11	49.81	56.66	-6.85	QP
0.4620	22.20	10.11	32.31	46.66	-14.35	AVG
0.6140	42.53	10.13	52.66	56.00	-3.34	QP
0.6140	26.37	10.13	36.50	46.00	-9.50	AVG
0.9340	37.61	10.16	47.77	56.00	-8.23	QP
0.9340	22.36	10.16	32.52	46.00	-13.48	AVG
1.0900	37.48	10.17	47.65	56.00	-8.35	QP
1.0900	20.34	10.17	30.51	46.00	-15.49	AVG
1.1860	40.09	10.17	50.26	56.00	-5.74	QP
1.1860	17.03	10.17	27.20	46.00	-18.80	AVG

Remark:

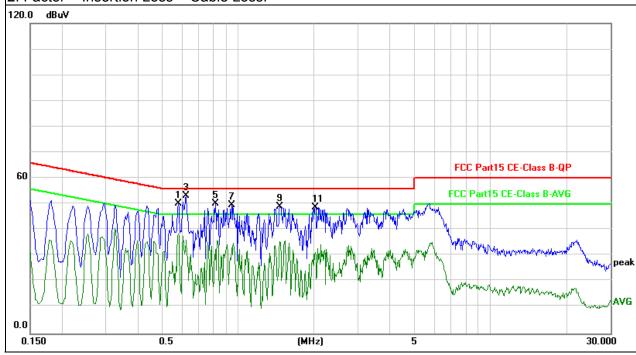




EUT:	Sport Bluetooth Earphones	Model Name. :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.5820	40.25	10.12	50.37	56.00	-5.63	QP
0.5820	28.42	10.12	38.54	46.00	-7.46	AVG
0.6220	43.18	10.13	53.31	56.00	-2.69	QP
0.6220	26.07	10.13	36.20	46.00	-9.80	AVG
0.8140	40.23	10.15	50.38	56.00	-5.62	QP
0.8140	25.83	10.15	35.98	46.00	-10.02	AVG
0.9460	39.46	10.16	49.62	56.00	-6.38	QP
0.9460	24.90	10.16	35.06	46.00	-10.94	AVG
1.4660	38.88	10.17	49.05	56.00	-6.95	QP
1.4660	25.46	10.17	35.63	46.00	-10.37	AVG
2.0300	38.62	10.18	48.80	56.00	-7.20	QP
2.0300	22.52	10.18	32.70	46.00	-13.30	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



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

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

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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

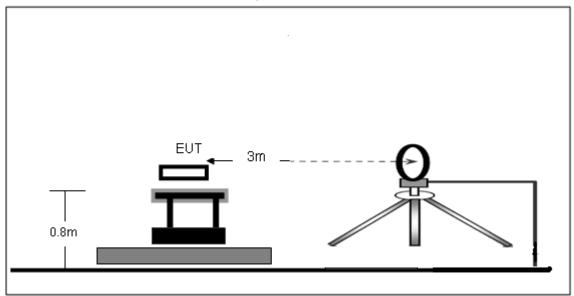
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

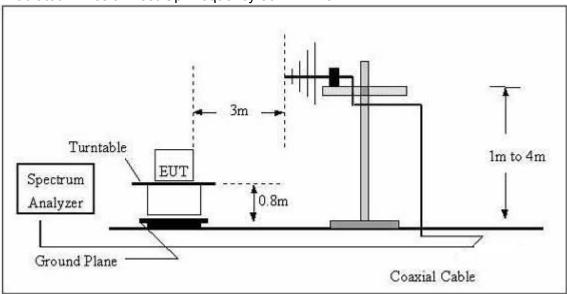


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

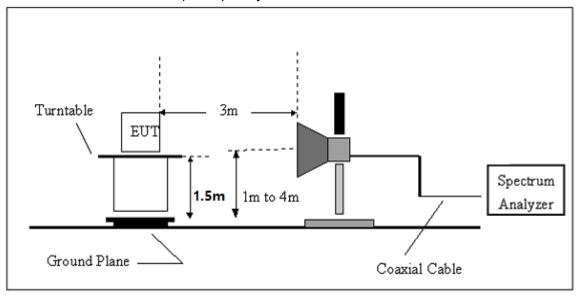


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz)

EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m) (dB)		P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



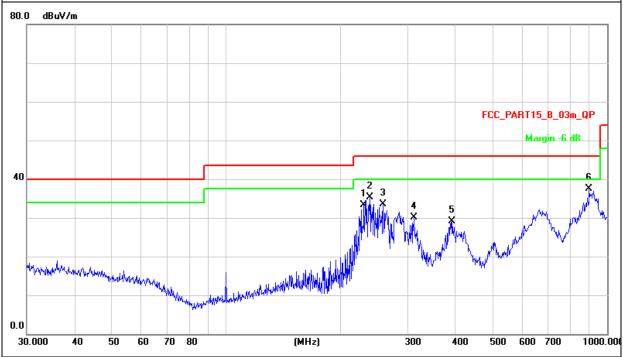
Radiated Spurious Emission (Between 30MHz – 1GHz)

EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
230.0985	48.37	-15.05	33.32	46.00	-12.68	QP
238.3102	49.85	-14.58	35.27	46.00	-10.73	QP
258.3263	47.55	-13.98	33.57	46.00	-12.43	QP
311.0867	42.31	-12.29	30.02	46.00	-15.98	QP
392.0951	39.47	-10.38	29.09	46.00	-16.91	QP
896.9964	39.02	-1.48	37.54	46.00	-8.46	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
31.7313	43.62	-8.25	35.37	40.00	-4.63	QP
42.4508	34.27	-9.16	25.11	40.00	-14.89	QP
68.8721	42.94	-14.08	28.86	40.00	-11.14	QP
97.4560	39.28	-16.76	22.52	43.50	-20.98	QP
176.2684	42.36	-14.01	28.35	43.50	-15.15	QP
188.4123	36.78	-15.37	21.41	43.50	-22.09	QP

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





Radiated Spurious Emission (1GHz to 10th harmonics) (Scan with GFSK, π /4-DQPSK,8DPSK,the worst casw is BDR Mode (GFSK)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
,	, , ,	Lo	w Channel (2402 M	, , ,	,		
1126.2	68.45	-19.14	49.31	74	-24.69	peak	Vertical
1595.8	61.43	-16.43	45	74	-29	peak	Vertical
3040.4	60.22	-11.63	48.59	74	-25.41	peak	Vertical
4804.4	54.65	-3.64	51.01	74	-22.99	peak	Vertical
1127.3	70.87	-19.14	51.73	74	-22.27	peak	Horizontal
1595.4	67.65	-16.43	51.22	74	-22.78	peak	Horizontal
3041.5	58.36	-11.63	46.73	74	-27.27	peak	Horizontal
4804.4	50.28	-3.64	46.64	74	-27.36	peak	Horizontal
		М	id Channel (2441 M	Hz)			
1341.5	65.51	-17.48	48.03	74	-25.97	peak	Vertical
2022.6	59.53	-12.92	46.61	74	-27.39	peak	Vertical
2826.9	57.73	-11.73	46	74	-28	peak	Vertical
4882.1	53.58	-3.68	49.9	74	-24.1	peak	Vertical
1127.5	66.52	-19.14	47.38	74	-26.62	peak	Horizontal
1635.4	61.38	-16.06	45.32	74	-28.68	peak	Horizontal
2486.3	56.42	-12.77	43.65	74	-30.35	peak	Horizontal
4882.1	51.73	-3.68	48.05	74	-25.95	peak	Horizontal
		Hiç	gh Channel (2480 M	1Hz)			
1170.2	63.64	-18.54	45.1	74	-28.9	peak	Vertical
2273.5	64.37	-12.87	51.5	74	-22.5	peak	Vertical
3125.3	55.62	-11.43	44.19	74	-29.81	peak	Vertical
4960.4	51.59	-3.59	48	74	-26	peak	Vertical
1126.6	70.74	-19.14	51.6	74	-22.4	peak	Horizontal
1338.2	67.45	-17.48	49.97	74	-24.03	peak	Horizontal
1852.7	65.47	-14.64	50.83	74	-23.17	peak	Horizontal
4960.4	53.63	-3.59	50.04	74	-23.96	peak	Horizontal

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit

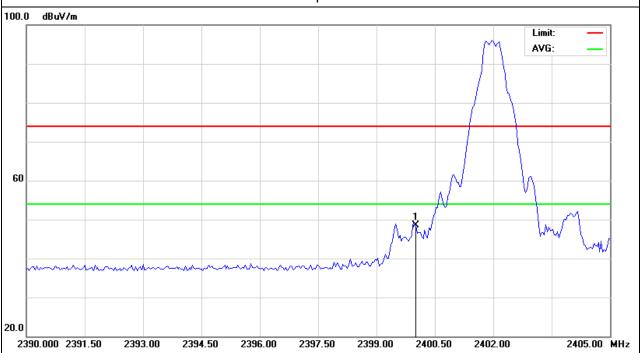


Radiated band edge:

EUT: Sport Bluetooth Earphones		Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	120V/60Hz
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2400	61.57	-12.99	48.58	74	-25.42	peak	

Remark:

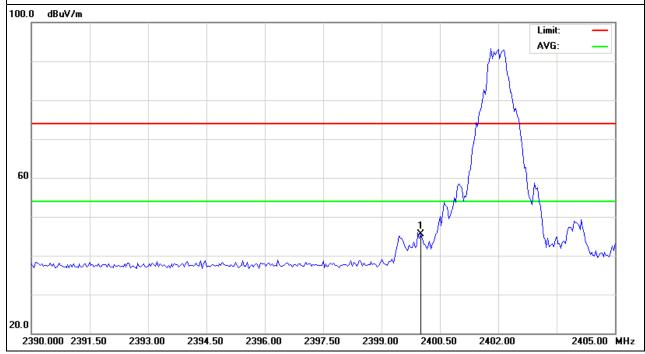






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Horizontal

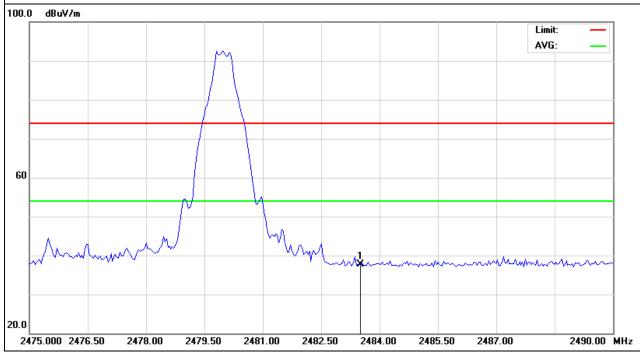
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	58.5	-12.99	45.51	74	-28.49	peak





EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	50.58	-12.78	37.8	74	-36.2	peak

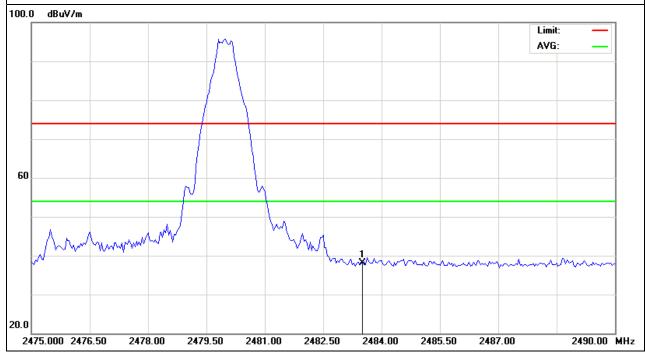






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	50.86	-12.78	38.08	74	-35.92	peak

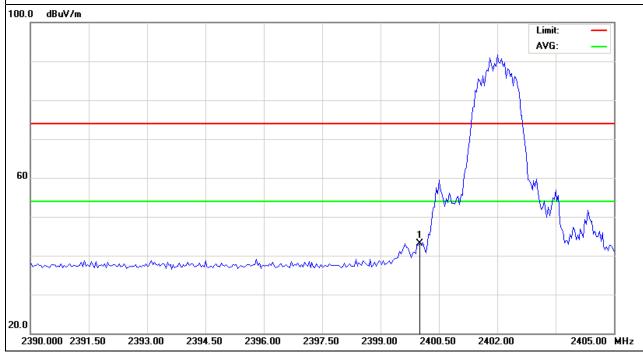






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2400	56.14	-12.99	43.15	74	-30.85	peak

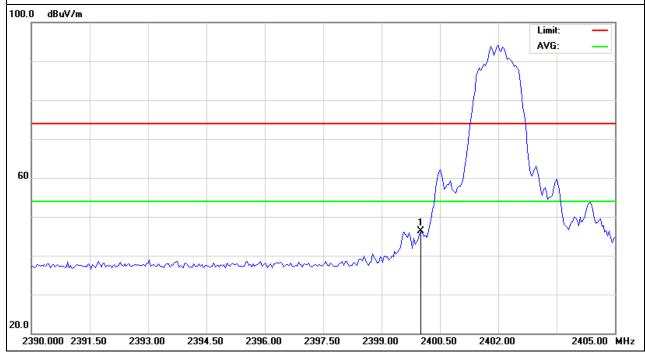


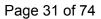




EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2400	59.26	-12.99	46.27	74	-27.73	peak

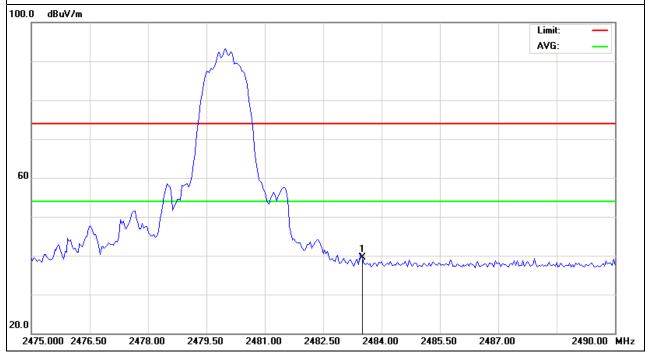






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	52.2	-12.78	39.42	74	-34.58	peak

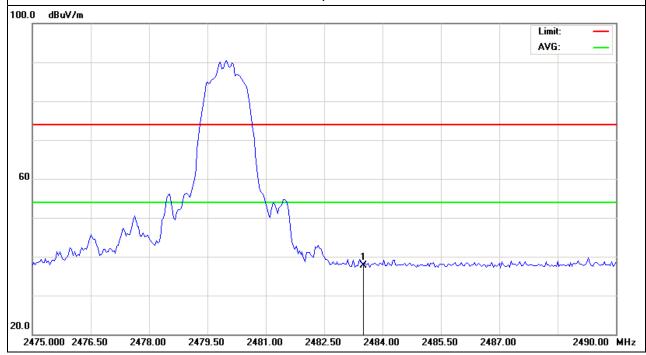






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	50.58	-12.78	37.8	74	-36.2	peak

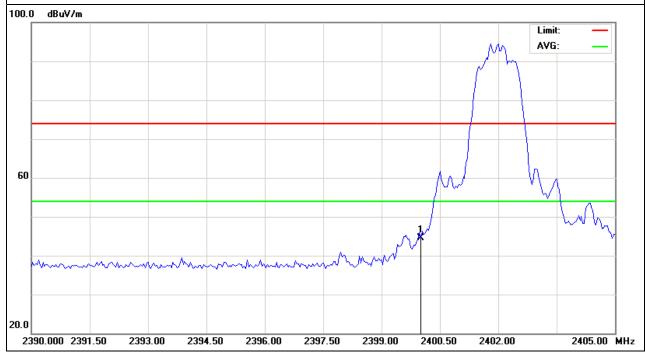


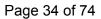




EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	57.51	-12.99	44.52	74	-29.48	peak

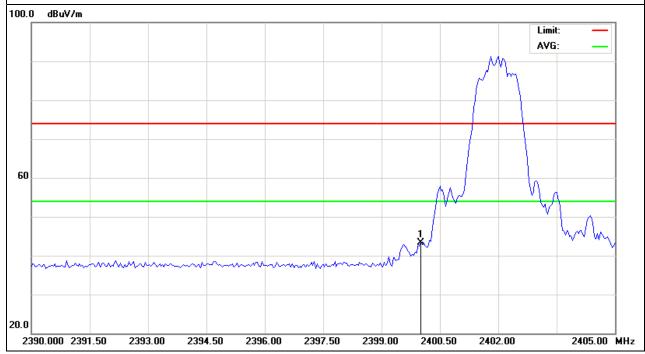


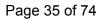




EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	56.27	-12.99	43.28	74	-30.72	peak

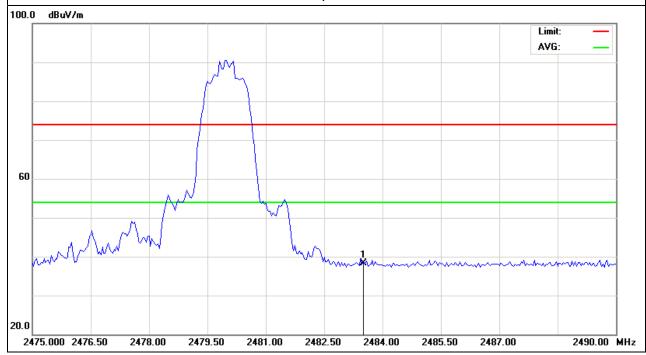






EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	51.18	-12.78	38.4	74	-35.6	peak

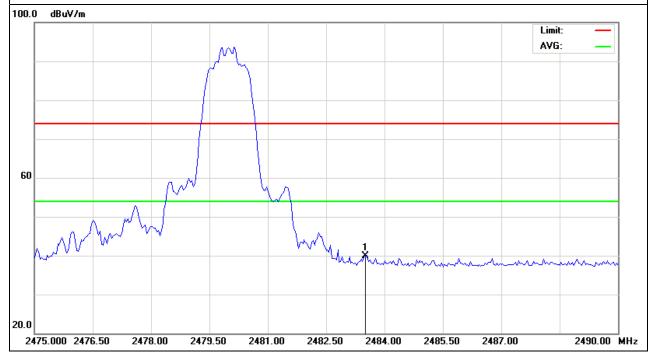




EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	52.71	-12.78	39.93	74	-34.07	peak

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



NOTE:

- 1.The result (PK) less than AV limite, No need shown AV result.
- 2. Hopping enabled and disabled have evaluated, and the worest data was reported



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW ≥ 1% of the span
VB	$VBW \ge RBW$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

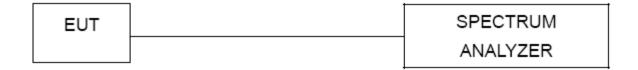
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP

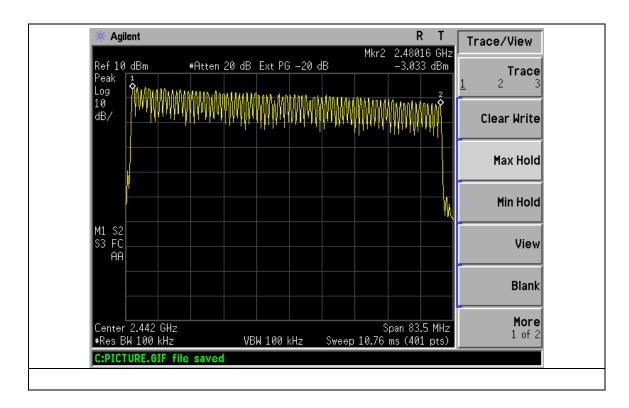


4.1.4 EUT OPERATION CONDITIONS



EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode		

Number of Hopping Channel	79
rtamber of riopping orialino	. •





5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- C. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4

 - DH1 Time Slot: Reading * (1600/2)*31.6/(channel number) DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
 - DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



ANALYZER



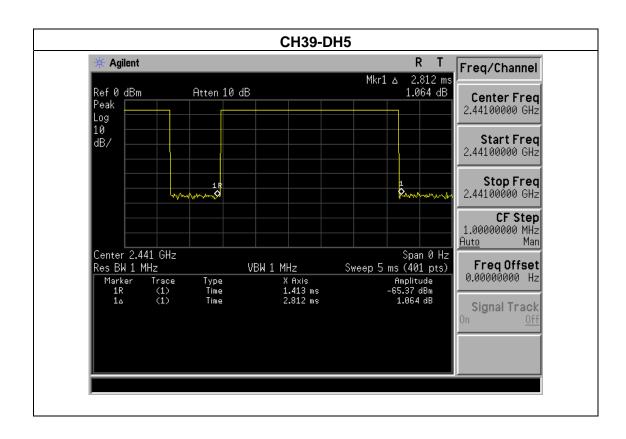
5.1.3 TEST SETUP	
EUT	SPECTRUM

5.1.4 EUT OPERATION CONDITIONS

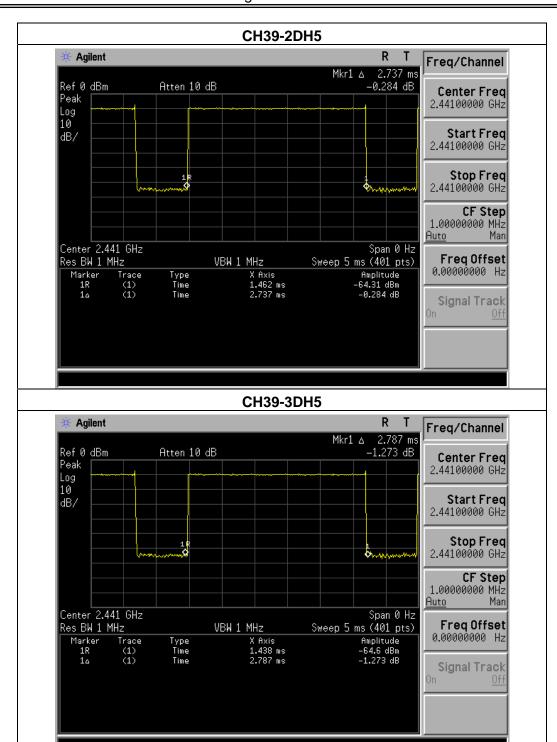


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39-DH5, 2DH5, 3DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.81	0.30	0.4
2DH5	2441 MHz	2.74	0.29	0.4
3DH5	2441 MHz	2.79	0.30	0.4



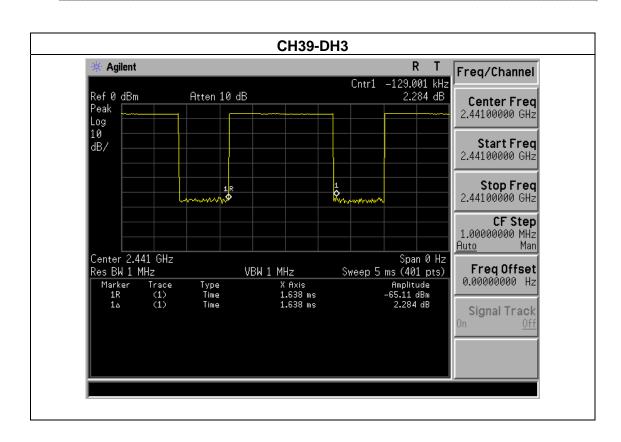




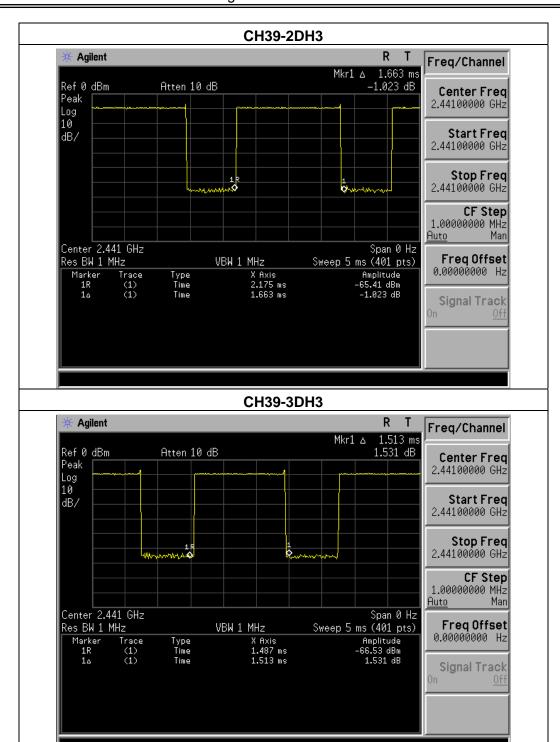


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39-DH3, 2DH3, 3DH3		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.64	0.26	0.4
2DH3	2441 MHz	1.66	0.27	0.4
3DH3	2441 MHz	1.51	0.24	0.4



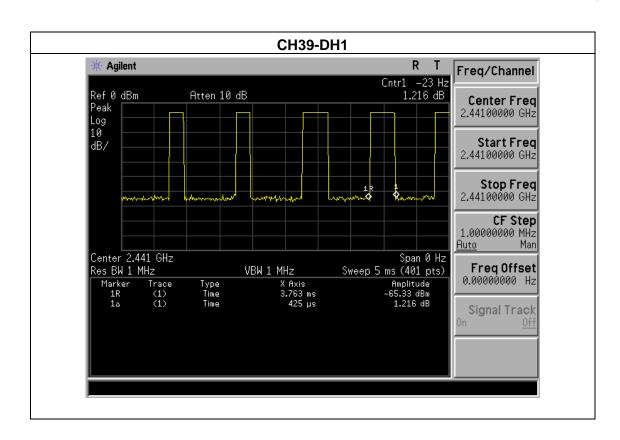




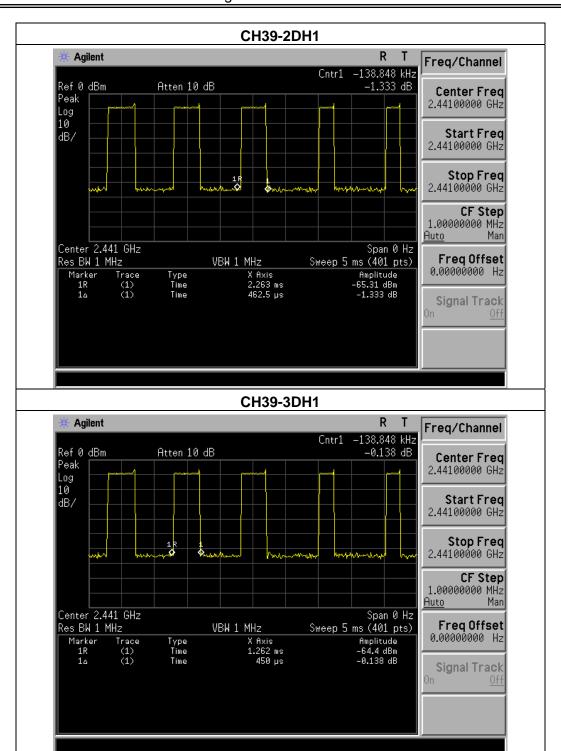


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39-DH1, 2DH1, 3DH1		

Data		Pulse	Dwell	
Packet	Frequency	Duration	Time	Limits
racket		(ms)	(s)	(s)
DH1	2441 MHz	0.43	0.14	0.4
2DH1	2441 MHz	0.46	0.15	0.4
3DH1	2441 MHz	0.45	0.14	0.4









6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	100 kHz (Channel Separation)	
VB	300 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

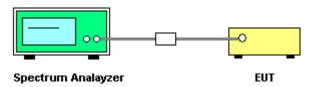
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

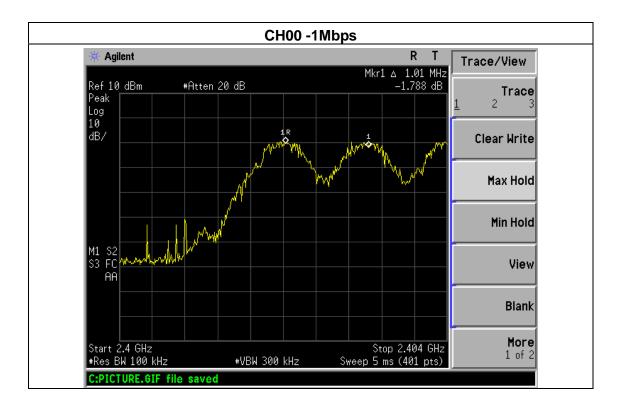
The EUT was programmed to be in continuously transmitting mode.



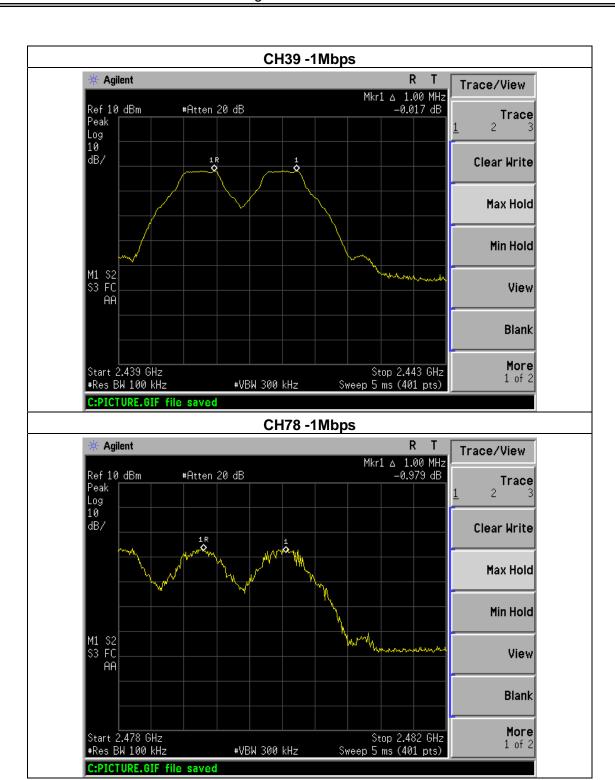
EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.01	Complies
2441 MHz	1.00	Complies
2480 MHz	1.00	Complies

Ch. Separation Limits: >20dB bandwidth







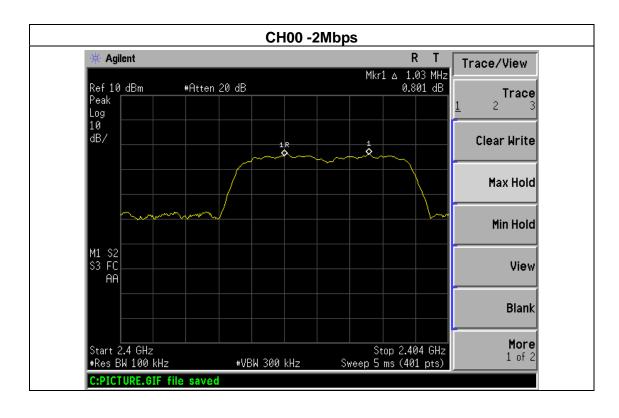




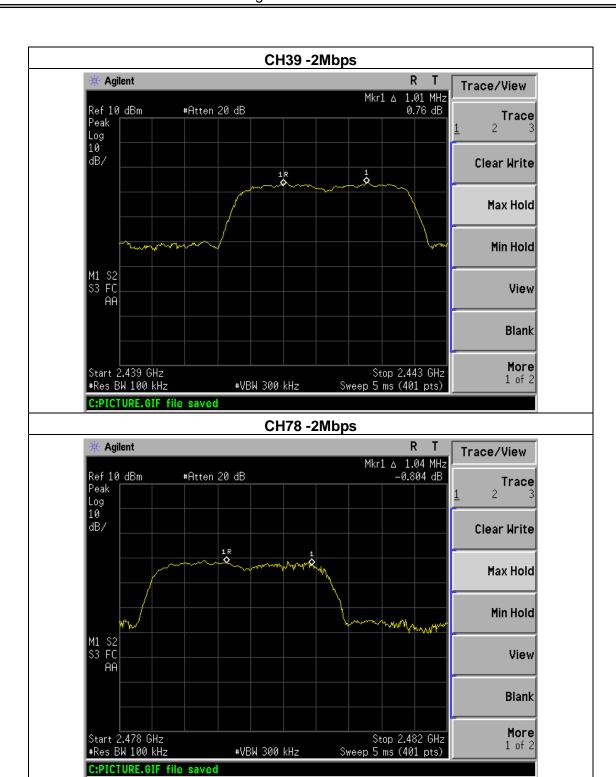
EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.03	Complies
2441 MHz	1.01	Complies
2480 MHz	1.04	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth







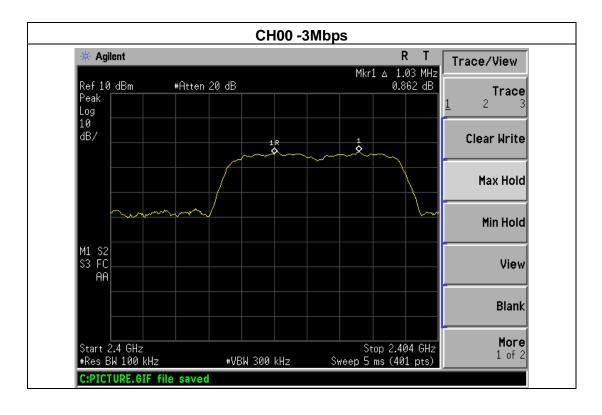




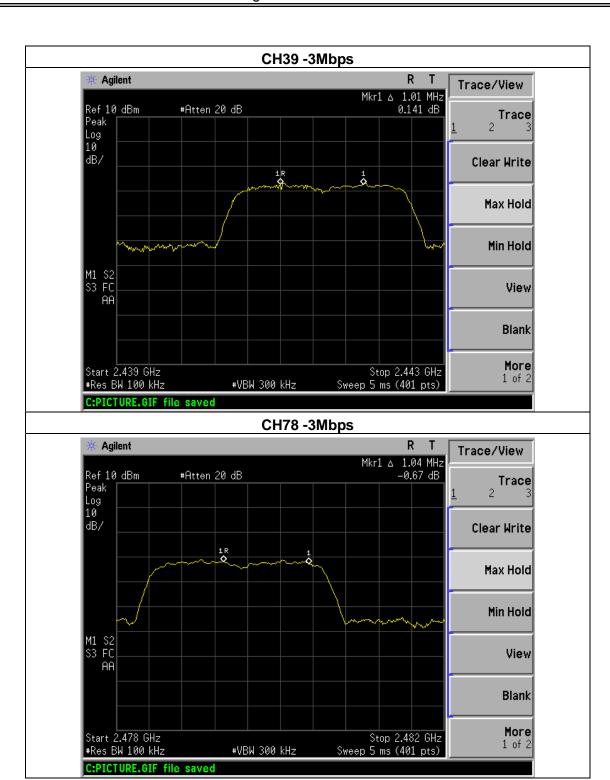
EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.03	Complies
2441 MHz	1.01	Complies
2480 MHz	1.04	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth









7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result			Result		
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS	

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	1% of the 20 dB bandwidth	
VB	≥RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

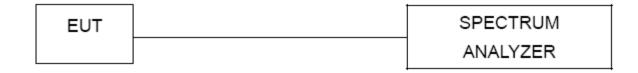
7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1% of the 20 dB bandwidth, VBW≥ RBW, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

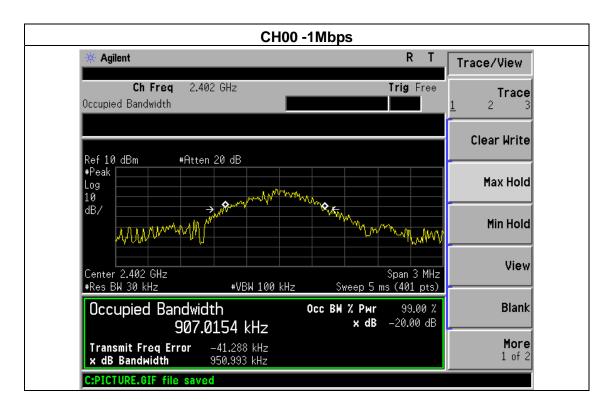


7.1.4 EUT OPERATION CONDITIONS

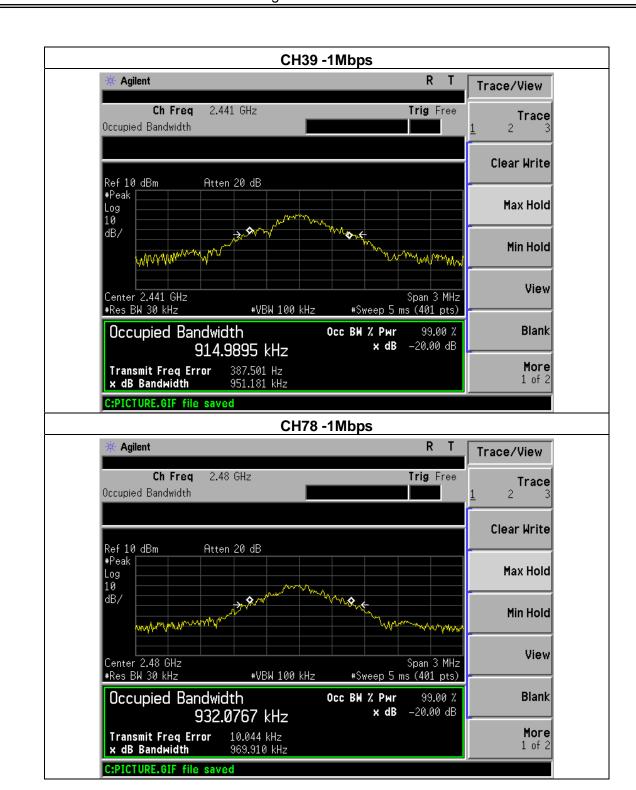


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	950.993	PASS
2441 MHz	951.181	PASS
2480 MHz	969.910	PASS



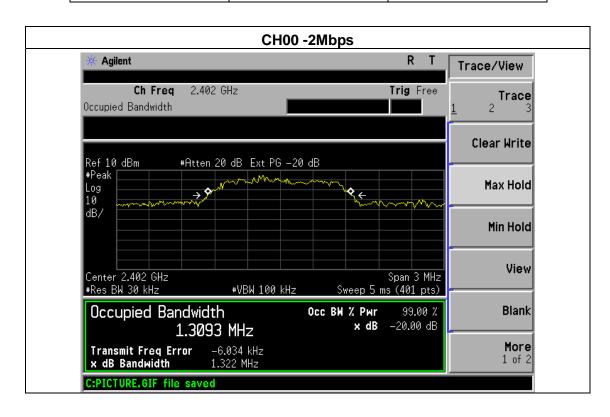




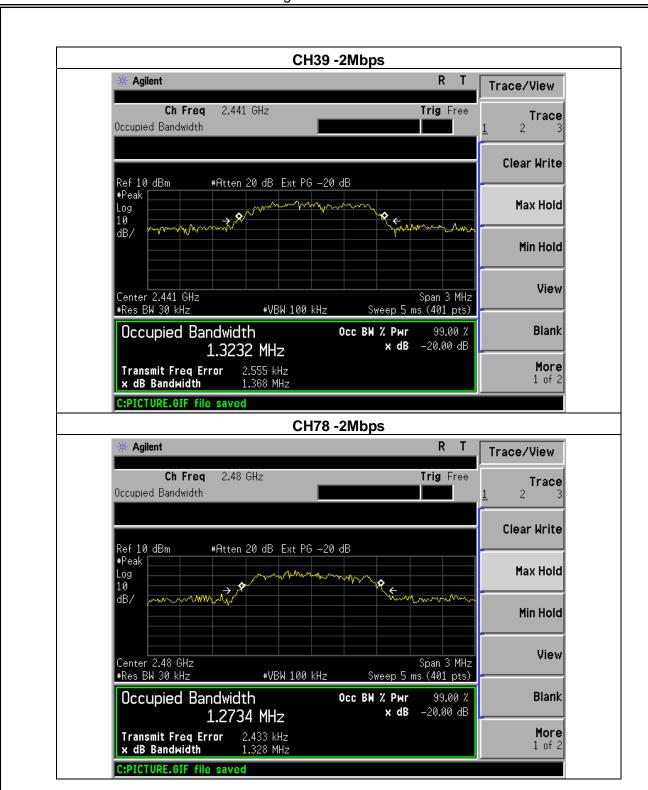


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.322	PASS
2441 MHz	1.368	PASS
2480 MHz	1.328	PASS



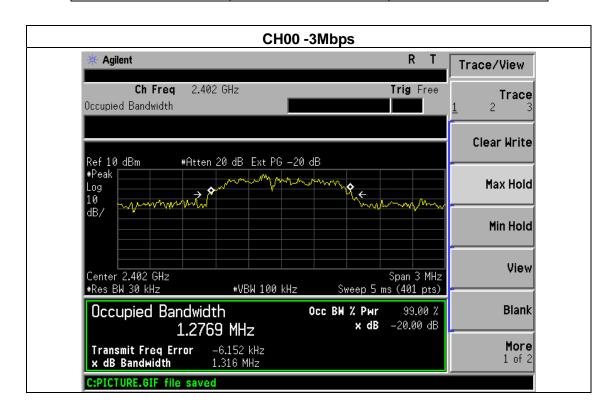




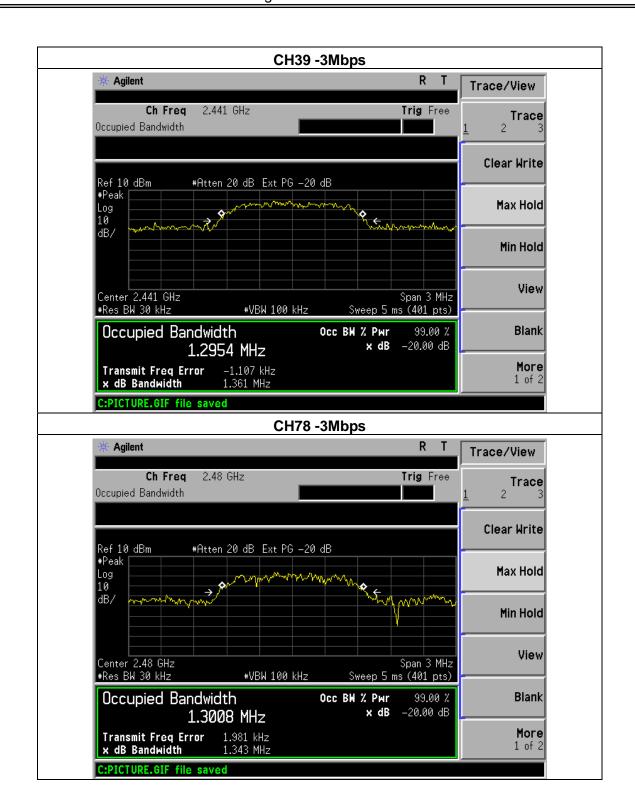


EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.316	PASS
2441 MHz	1.361	PASS
2480 MHz	1.343	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	30Bm or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

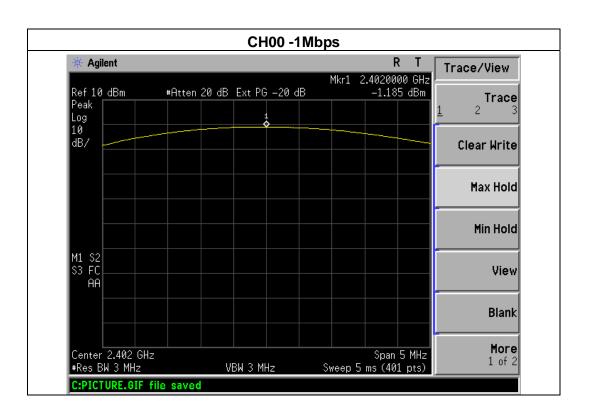
8.1.4 EUT OPERATION CONDITIONS



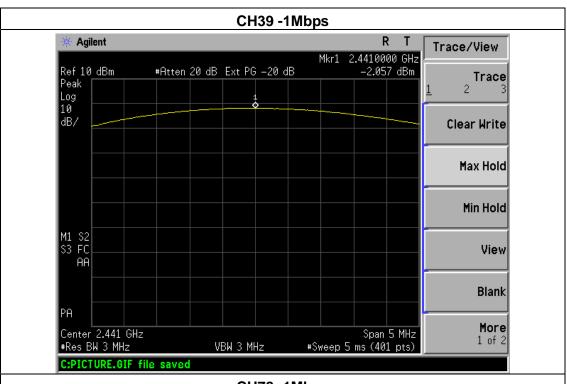
EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

1Mbps					
Test Channel	Frequency	Peak Output Power	LIMIT		
Test oname	(MHz)	(dBm)	(dBm)		
CH00	2402	-1.185	30		
CH39	2441	-2.057	30		
CH78	2480	-2.075	30		
		2Mbps			
CH00	2402	-1.202	20.96		
CH39	2441	-2.053	20.96		
CH78	2480	-2.040	20.96		
	3Mbps				
CH00	2402	-1.186	20.96		
CH39	2441	-2.085	20.96		
CH78	2480	-2.017	20.96		

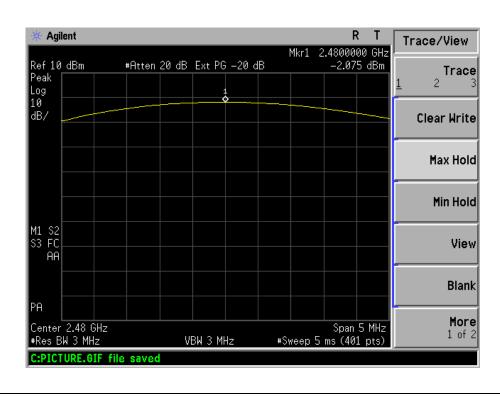


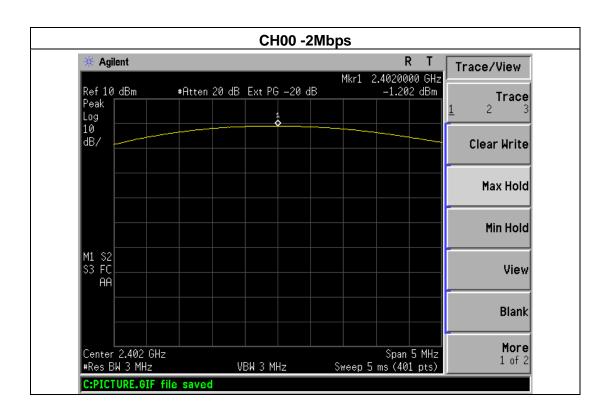




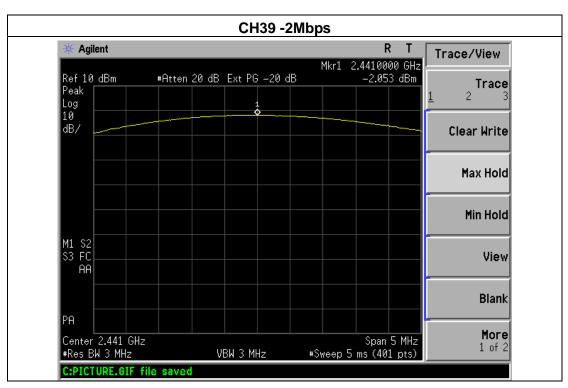


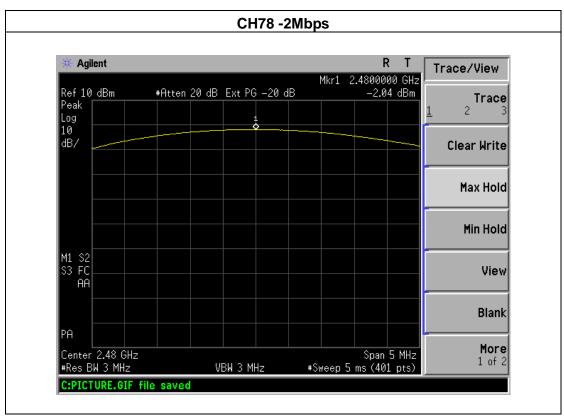




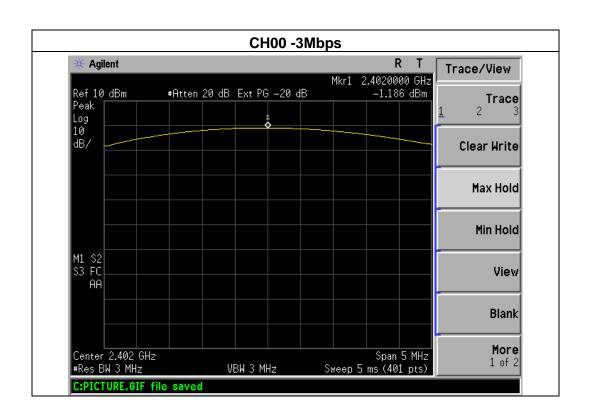




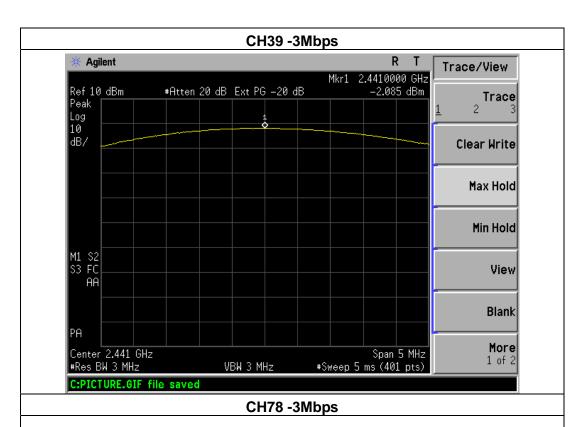


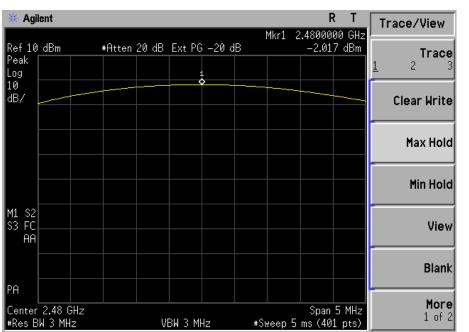














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.3 EUT OPERATION CONDITIONS



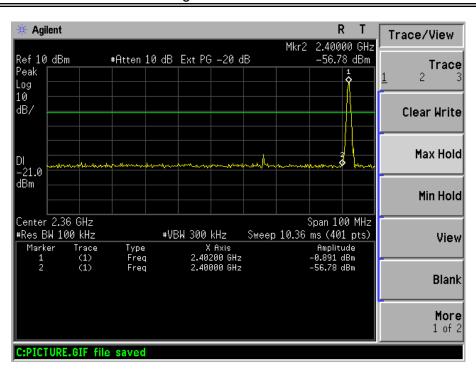
9.4 TEST RESULTS

EUT:	Sport Bluetooth Earphones	Model Name :	Trendy 704
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)		

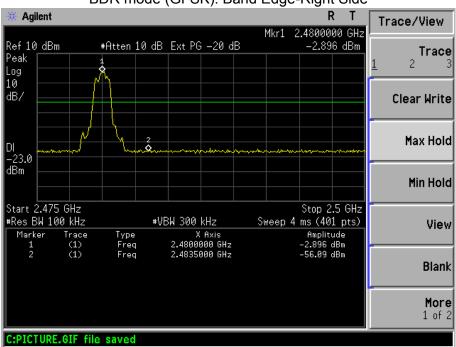
Frequency Band	Delta Peak to band emission >Limit (dBc) R		Result		
	BDR mode (GFS	K)			
Left-band	55.89	20	Pass		
Right-band	53.19	20	Pass		
	EDR mode (π /4-DQPSK)				
Left-band	53.50	20	Pass		
Right-band	53.99	20	Pass		
EDR mode(8DPSK)					
Left-band	55.43	20	Pass		
Right-band	55.93	20	Pass		

BDR mode (GFSK): Band Edge-Left Side



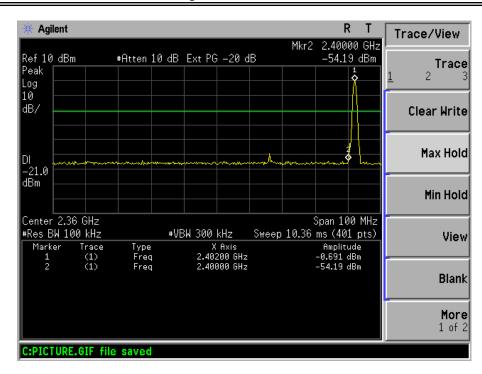


BDR mode (GFSK): Band Edge-Right Side

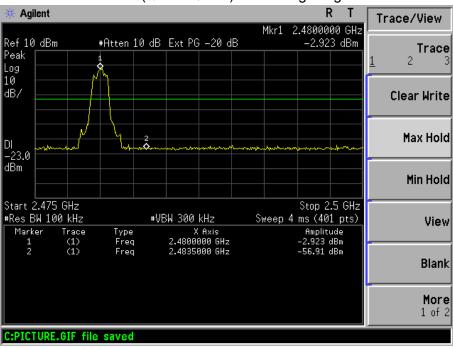


EDR mode (π /4-DQPSK): Band Edge-Left Side



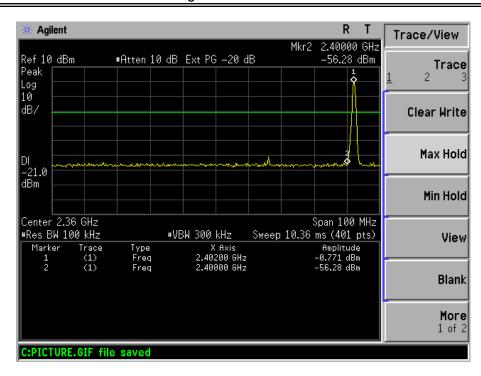


EDR mode (π /4-DQPSK): Band Edge-Right Side

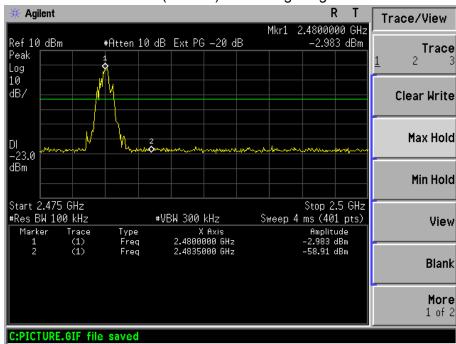


EDR mode(8DPSK): Band Edge-Left Side

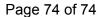




EDR mode(8DPSK): Band Edge-Right Side



NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported





10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

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

10.2 EUT ANTENNA

The EUT antenna is Chip antenna, is permanent attached antenna	
It comply with the standard requirement.	