FCC RADIO TEST REPORT

Prepared For	Lezun Limited	
Product Name:	Bluetooth headset	
Trade Name:	N/A	
Model Name :	LZ380B	
FCC ID:	R2GLZ380B	
Prepared By	pared By DongGuan Precise Testing Service Co.,Ltd.	
	F616A Room, 6th Floor, Meixin Business Center, Dongcheng Middle Road, Dongguan, Guangdong, China	
Report No.	PTS201502321F	
Test Date:	Feb. 01 ~ Feb. 07, 2015	
Date of Report :	Feb.07, 2015	



Page 2 of 69 Report No.: PTS201502321F

VERIFICATION OF COMPLIANCE

Applicant:	Lezun Limited
Address	3F, Building 1C, Huiye technology park, Guanguang Road, Guangming District, Shenzhen,China
Manufacturer Name:	Lezun Limited
Address:	3F, Building 1C, Huiye technology park, Guanguang Road, Guangming District, Shenzhen,China
Product Description:	Bluetooth headset
Brand Name:	LZ380B
Model Name:	N/A
Model difference:	N/A
Test procedure	ANSI C63.4:2003, DA 00-705
Standards	FCC Part15.247:2014

Prepared by:

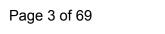
Assistant

Reviewer:

Supervisor

Approved & Authorized Signer:

Jacky Ou / Manager





Report No.: PTS201502321F

Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
2 . GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 DESCRIPTION OF TEST MODES	10
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	10
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 11
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	12
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	13
3 . EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD	15 15
3.1.4 TEST SETUP	15
3.1.5 EUT OPERATING CONDITIONS	15
3.1.6 TEST RESULTS	16
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	18 18
3.2.2 TEST PROCEDURE	19
3.2.3 DEVIATION FROM TEST STANDARD	19
3.2.4 TEST SETUP	20
3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS	21 22
4 . NUMBER OF HOPPING CHANNEL	
4.1 APPLIED PROCEDURES / LIMIT	29 29
4.1.1 TEST PROCEDURE 4.1.2 TEST PROCEDURE	29 29
4.1.2 DEVIATION FROM STANDARD	29
4.1.3 TEST SETUP	29
4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS	29 30
5 . AVERAGE TIME OF OCCUPANCY	31





Report No.: PTS201502321F

	-	_	_		
Tah	בוי	Λf	$C \cap$	ntc	nts

lable of Contents	Page
	i age
5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP 5.1.4 EUT OPERATION CONDITIONS 5.1.5 TEST RESULTS	31 31 31 32 32 33
6 . HOPPING CHANNEL SEPARATION MEASUREMENT	39
6.1 APPLIED PROCEDURES / LIMIT 6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD 6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS 6.1.5 TEST RESULTS	39 39 39 39 39
7 . BANDWIDTH TEST	46
7.1 APPLIED PROCEDURES / LIMIT 7.1.1 TEST PROCEDURE 7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP 7.1.4 EUT OPERATION CONDITIONS 7.1.5 TEST RESULTS	46 46 46 46 47
8 . PEAK OUTPUT POWER TEST	53
8.1 APPLIED PROCEDURES / LIMIT 8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD 8.1.3 TEST SETUP 8.1.4 EUT OPERATION CONDITIONS 8.1.5 TEST RESULTS	53 53 53 53 53 54
9 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE 9.1 DEVIATION FROM STANDARD 9.2 TEST SETUP 9.3 EUT OPERATION CONDITIONS 9.4 TEST RESULTS	61 61 61 63
10 . ANTENNA REQUIREMENT	67
10.1 STANDARD REQUIREMENT	67
10.2 EUT ANTENNA	67



Page 5 of 69 Report No.: PTS201502321F

Table of Contents	Page
11 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	68

Page 6 of 69 Report No.: PTS201502321F

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			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Page 7 of 69 Report No.: PTS201502321F

1.1 TEST FACILITY

Dongguan Quality Supervision Testing Center

Add.: B#, Dongguan Quality Supervision Testing Center, NO.2 South Industry Road,

Songshan Lake, Dongguan City, 523808, China.

FCC Registration No.: 817095; IC Registration No.: 6843A-1

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%

Page 8 of 69 Report No.: PTS201502321F

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth headset		
Trade Name	N/A		
Model Name	LZ380B		
Serial Model	N/A		
Model Difference	N/A		
Bluetooth version	Bluetooth 3.0+EDR		
	The EUT is a Bluetooth	headset	
	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): 0.155dBm	
	Power(Conducted):	BT EDR(2Mbps): -0.189dBm	
		BT EDR(3Mbps): -0.393dBm	
	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	Rated Voltage:3.7V		
Connecting I/O Port(s) Please refer to the User's Manual		's Manual	

Note:

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



Page 9 of 69 Report No.: PTS201502321F

2.

		Chann			
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

	able for the difficient						
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
1	N/A	N/A	PCB Antenna	N/A	0.6	BT Antenna	

Page 10 of 69 Report No.: PTS201502321F

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: Broadcom			
Frequency	2402 MHz 2441 MHz 2480 MHz			
Parameters(1/2/3Mbps)	DEF	DEF	DEF	



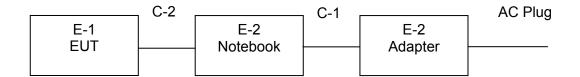
Page 11 of 69 Report No.: PTS201502321F

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test



Page 12 of 69 Report No.: PTS201502321F

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	Bluetooth headset	U&I	LZ380B	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	10cm	

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".

Page 13 of 69 Report No.: PTS201502321F

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

radio	Tradiation Test equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period		
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year		
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year		
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year		
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year		
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year		
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year		
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year		
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year		
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year		
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year		
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year		
12	RF cables	R&S	R203	R20X	2014.07.06	2015.07.05	1 year		

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year
7	RF cables	R&S	R204	R20X	2014.07.06	2015.07.05	1 year

Page 14 of 69 Report No.: PTS201502321F

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	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.

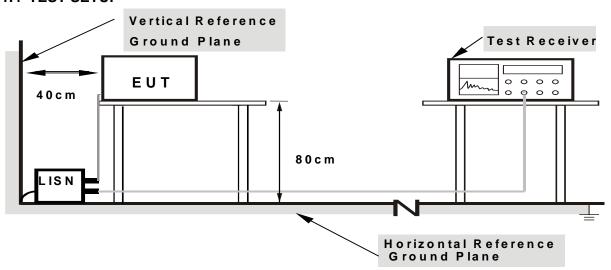
Report No.: PTS201502321F

- 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.



Page 16 of 69 Report No.: PTS201502321F

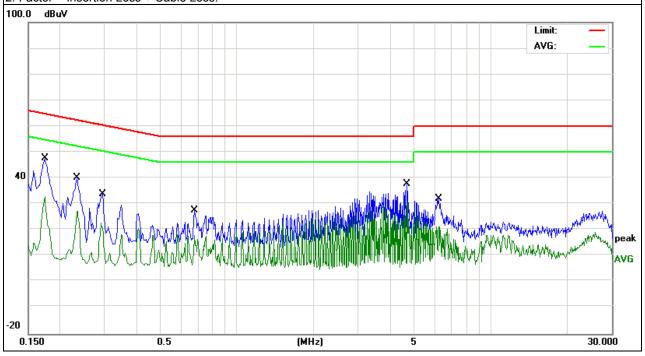
3.1.6 TEST RESULTS

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V from laptop	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1740	36.55	11.10	47.65	64.76	-17.11	QP
0.1740	21.91	11.10	33.01	54.76	-21.75	AVG
0.2340	29.44	10.77	40.21	62.30	-22.09	QP
0.2340	16.46	10.77	27.23	52.30	-25.07	AVG
0.2900	22.93	10.93	33.86	60.52	-26.66	QP
0.2900	11.74	10.93	22.67	50.52	-27.85	AVG
0.6820	16.87	10.53	27.40	56.00	-28.60	QP
0.6820	7.44	10.53	17.97	46.00	-28.03	AVG
4.6579	27.25	10.63	37.88	56.00	-18.12	QP
4.6579	20.49	10.63	31.12	46.00	-14.88	AVG
6.2299	21.27	10.70	31.97	60.00	-28.03	QP
6.2299	10.55	10.70	21.25	50.00	-28.75	AVG

Remark:

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





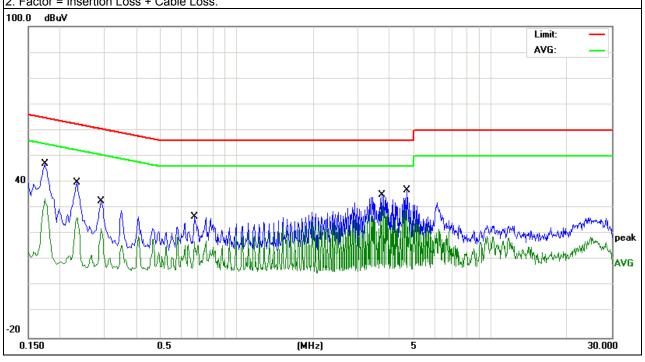
Page 17 of 69 Report No.: PTS201502321F

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC120V from laptop	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1740	35.69	11.37	47.06	64.76	-17.70	QP
0.1740	22.07	11.37	33.44	54.76	-21.32	AVG
0.2340	28.72	11.01	39.73	62.30	-22.57	QP
0.2340	15.25	11.01	26.26	52.30	-26.04	AVG
0.2900	21.80	10.89	32.69	60.52	-27.83	QP
0.2900	11.27	10.89	22.16	50.52	-28.36	AVG
0.6780	16.13	10.53	26.66	56.00	-29.34	QP
0.6780	6.65	10.53	17.18	46.00	-28.82	AVG
3.7260	24.41	10.58	34.99	56.00	-21.01	QP
3.7260	20.65	10.58	31.23	46.00	-14.77	AVG
4.6579	26.20	10.62	36.82	56.00	-19.18	QP
4.6579	18.82	10.62	29.44	46.00	-16.56	AVG

Remark:

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



Page 18 of 69 Report No.: PTS201502321F

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

Page 19 of 69 Report No.: PTS201502321F

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 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; 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

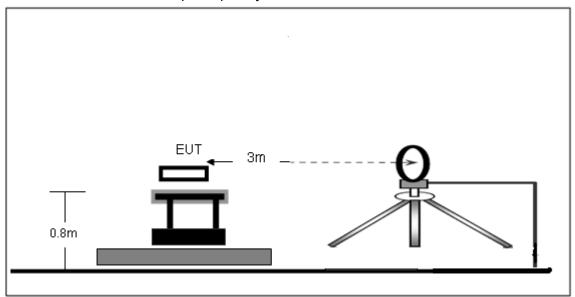
No deviation



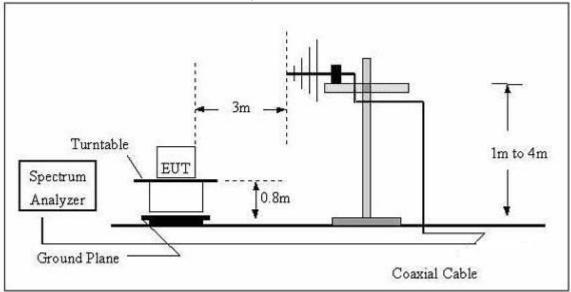
Report No.: PTS201502321F

3.2.4 TEST SETUP

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

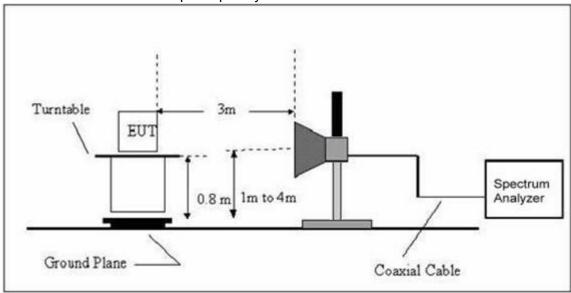


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Page 21 of 69 Report No.: PTS201502321F

(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.

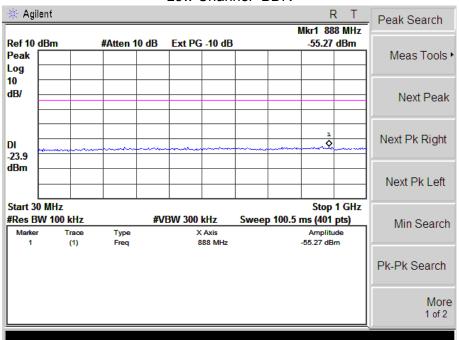


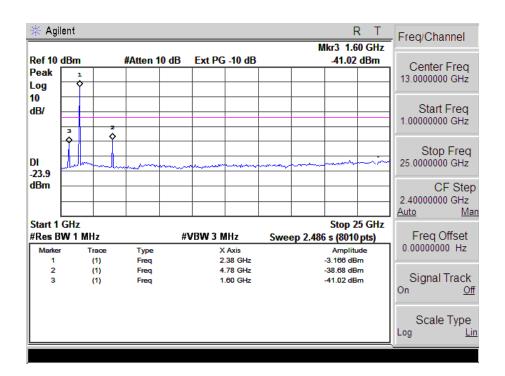
3.2.6 TEST RESULTS

Conducted Spurious Emissions at Antenna Port:

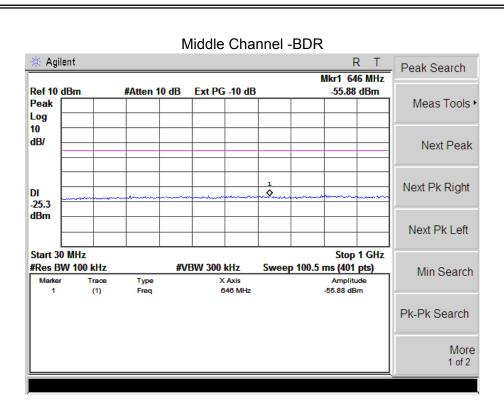
Low Channel -BDR

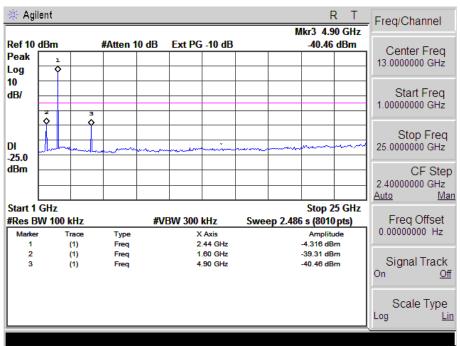
Report No.: PTS201502321F



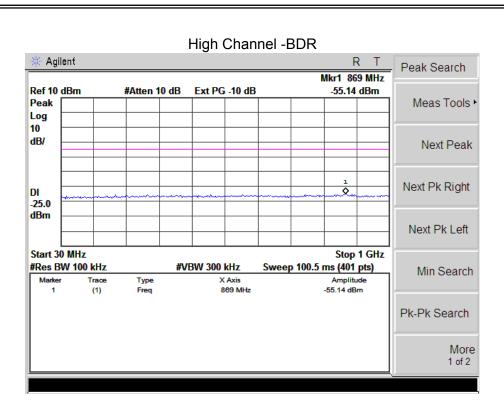


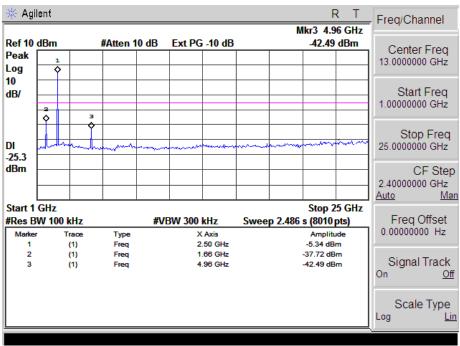
Page 23 of 69 Report No.: PTS201502321F





Page 24 of 69 Report No.: PTS201502321F







Page 25 of 69 Report No.: PTS201502321F

Radiated Spurious Emission (Below 30MHz)

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	DC 3.7V		
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.

Page 26 of 69 Report No.: PTS201502321F

Radiated Spurious Emission (Between 30MHz – 1GHz)

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	46.9947	17.31	9.62	26.93	40.00	-13.07	QP
V	126.3285	18.31	12.21	30.52	43.50	-12.98	QP
V	177.5089	21.22	10.07	31.29	43.50	-12.21	QP
V	190.4050	21.14	9.01	30.15	43.50	-13.35	QP
V	396.2412	15.84	18.05	33.89	46.00	-12.11	QP
V	670.4891	9.54	23.85	33.39	46.00	-12.61	QP
Н	141.3298	10.30	12.13	22.43	43.50	-21.07	QP
Н	193.0945	15.98	8.98	24.96	43.50	-18.54	QP
Н	265.6757	17.90	14.46	32.36	46.00	-13.64	QP
Н	341.9786	16.91	16.19	33.10	46.00	-12.90	QP
Н	423.5403	13.11	18.94	32.05	46.00	-13.95	QP
Н	890.7278	13.97	27.46	41.43	46.00	-4.57	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level – Limit All modes were tested, the worst data(1Mbps/2402MHz) was shown.



Page 27 of 69 Report No.: PTS201502321F

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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	0		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment		
Low Channel (2402 MHz)									
1127.500	68.40	-19.14	49.26	74.00	-24.74	peak	Vertical		
1595.000	61.49	-16.43	45.06	74.00	-28.94	peak	Vertical		
3040.000	61.23	-11.63	49.60	74.00	-24.40	peak	Vertical		
4804.000	53.64	-3.64	50.00	74.00	-24.00	peak	Vertical		
1127.500	71.12	-19.14	51.98	74.00	-22.02	peak	Horizontal		
1595.000	68.06	-16.43	51.63	74.00	-22.37	peak	Horizontal		
3040.000	59.73	-11.63	48.10	74.00	-25.90	peak	Horizontal		
4804.000	51.54	-3.64	47.90	74.00	-26.10	peak	Horizontal		
		М	id Channel (2441 M	Hz)					
1340.000	65.91	-17.48	48.43	74.00	-25.57	peak	Vertical		
2020.000	59.36	-12.92	46.44	74.00	-27.56	peak	Vertical		
2827.500	57.83	-11.73	46.10	74.00	-27.90	peak	Vertical		
4882.000	53.38	-3.68	49.70	74.00	-24.30	peak	Vertical		
1127.500	67.52	-19.14	48.38	74.00	-25.62	peak	Horizontal		
1637.500	61.68	-16.06	45.62	74.00	-28.38	peak	Horizontal		
2487.500	56.21	-12.77	43.44	74.00	-30.56	peak	Horizontal		
4882.000	50.78	-3.68	47.10	74.00	-26.90	peak	Horizontal		
		Hiç	gh Channel (2480 N	1Hz)					
1170.000	63.74	-18.54	45.20	74.00	-28.80	peak	Vertical		
2275.000	63.37	-12.87	50.50	74.00	-23.50	peak	Vertical		
3125.000	55.69	-11.43	44.26	74.00	-29.74	peak	Vertical		
4960.000	51.99	-3.59	48.40	74.00	-25.60	peak	Vertical		
1127.500	69.94	-19.14	50.80	74.00	-23.20	peak	Horizontal		
1340.000	66.40	-17.48	48.92	74.00	-25.08	peak	Horizontal		
1850.000	64.33	-14.64	49.69	74.00	-24.31	peak	Horizontal		
4960.000	52.69	-3.59	49.10	74.00	-24.90	peak	Horizontal		

Remark:

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

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit



Page 28 of 69 Report No.: PTS201502321F

Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
			GFSK				
2400	47.68	-13.06	34.62	74	-39.38	peak	Vertical
2400	49.84	-13.06	36.78	74	-37.22	peak	Horizontal
2483.5	47.92	-12.78	35.14	74	-38.86	peak	Vertical
2483.5	49.33	-12.78	36.55	74	-37.45	peak	Horizontal
			π /4-DQPSK				
2400	48.25	-13.06	35.19	74	-38.81	peak	Vertical
2400	50.31	-13.06	37.25	74	-36.75	peak	Horizontal
2483.5	47.24	-12.78	34.46	74	-39.54	peak	Vertical
2483.5	49.39	-12.78	36.61	74	-37.39	peak	Horizontal
			8DPSK				
2400	48.47	-13.06	34.87	74	-39.13	peak	Vertical
2400	49.84	-13.06	36.78	74	-37.22	peak	Horizontal
2483.5	47.69	-12.78	34.91	74	-39.09	peak	Vertical
2483.5	49.32	-12.78	36.54	74	-37.46	peak	Horizontal

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



Page 29 of 69 Report No.: PTS201502321F

4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

11. 71.1 2125 1 1(002501(207 211111)					
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 ≥ 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

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.

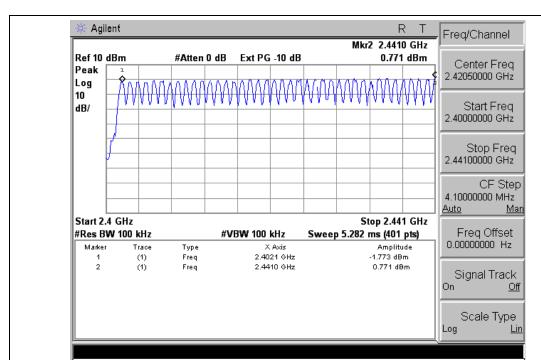


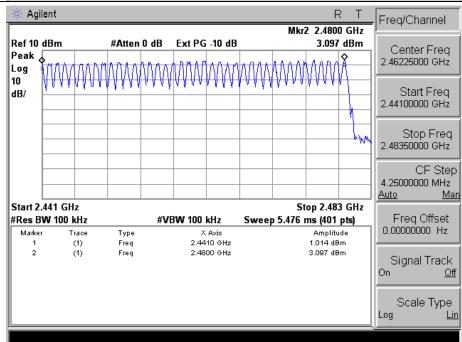
Page 30 of 69 Report No.: PTS201502321F

4.1.5 TEST RESULTS

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel 79







5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

011 7(1 1 E1ED 1 1(0 0 E D 0 1(E 0 7 E1IIII 1					
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	

Report No.: PTS201502321F

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.

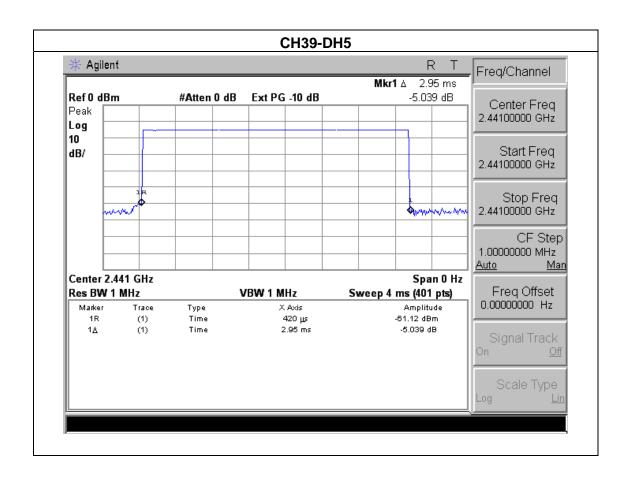
PRECISE TESTING	Page 32 of 69	Report No.: PTS201502321F
5.1.3 TEST SETUP		
EUT		SPECTRUM ANALYZER
5.1.4 EUT OPERATION	CONDITIONS	
The EUT tested system operating condition is spo	was configured as the stateme ecified in the follows during the	ents of 2.4 Unless otherwise a special e testing.

Page 33 of 69 Report No.: PTS201502321F

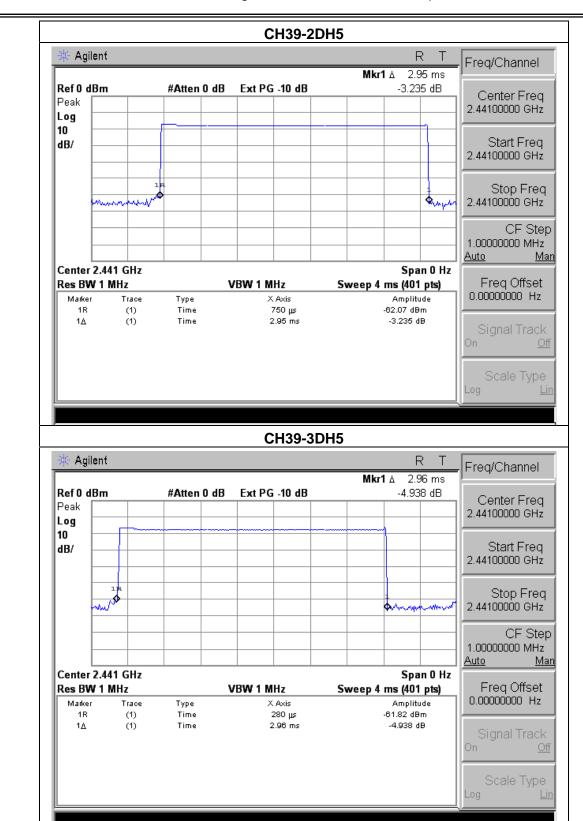
5.1.5 TEST RESULTS

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5, 2DH5, 3DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.95	0.31	0.4
2DH5	2441 MHz	2.95	0.31	0.4
3DH5	2441 MHz	2.96	0.32	0.4



Page 34 of 69 Report No.: PTS201502321F

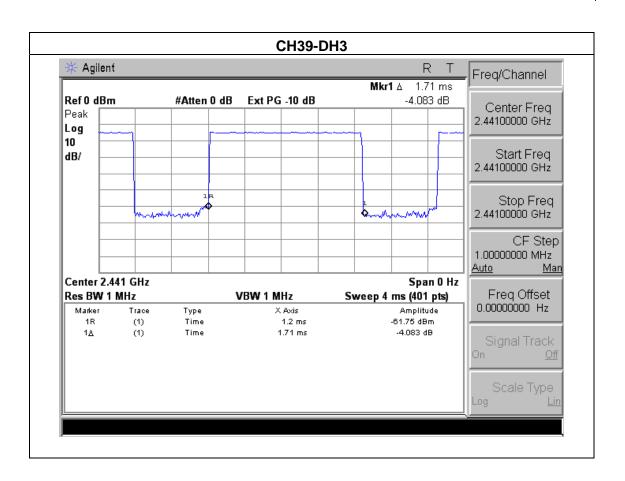




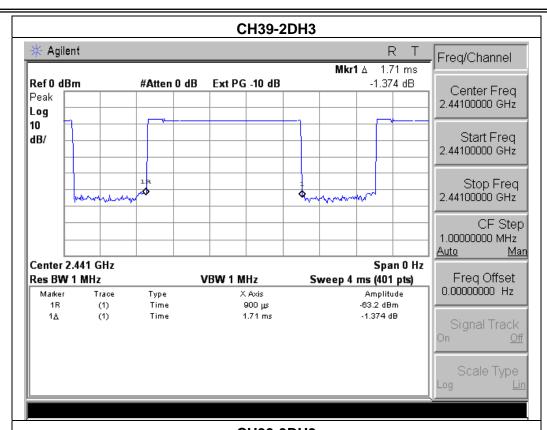
Page 35 of 69 Report No.: PTS201502321F

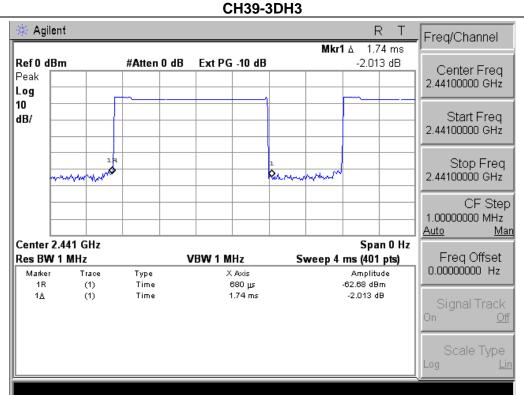
EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3, 2DH3, 3DH3		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.71	0.18	0.4
2DH3	2441 MHz	1.71	0.18	0.4
3DH3	2441 MHz	1.74	0.19	0.4



Page 36 of 69 Report No.: PTS201502321F



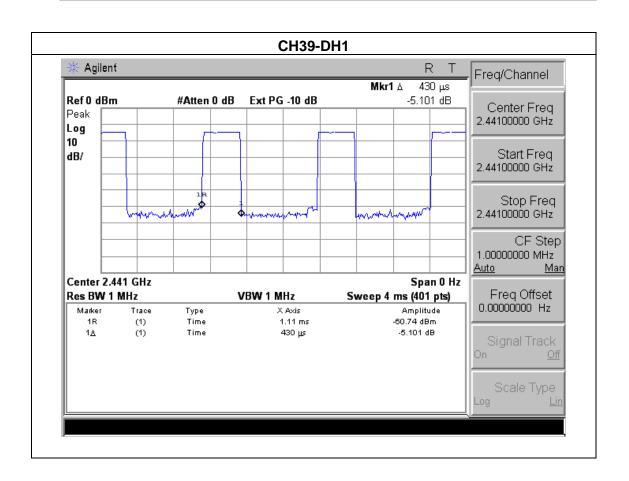




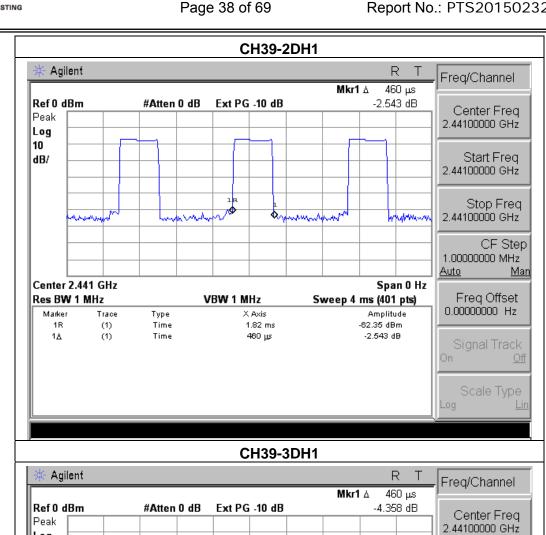
Page 37 of 69 Report No.: PTS201502321F

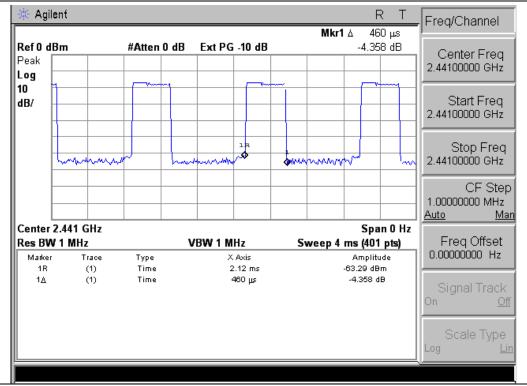
EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1, 2DH1, 3DH1		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.43	0.05	0.4
2DH1	2441 MHz	0.46	0.05	0.4
3DH1	2441 MHz	0.46	0.05	0.4



Page 38 of 69 Report No.: PTS201502321F





Page 39 of 69 Report No.: PTS201502321F

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	

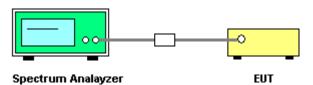
6.1.1 TEST PROCEDURE

- 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.

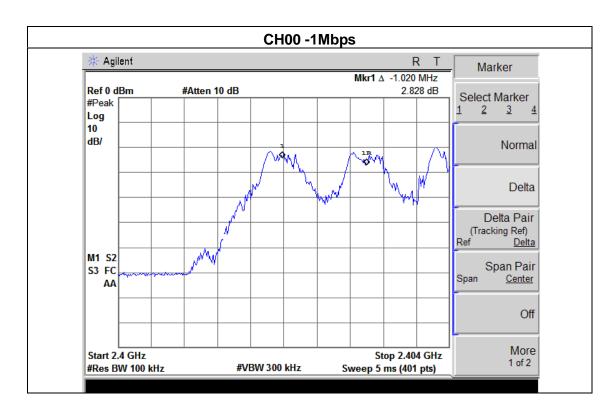
Page 40 of 69 Report No.: PTS201502321F

6.1.5 TEST RESULTS

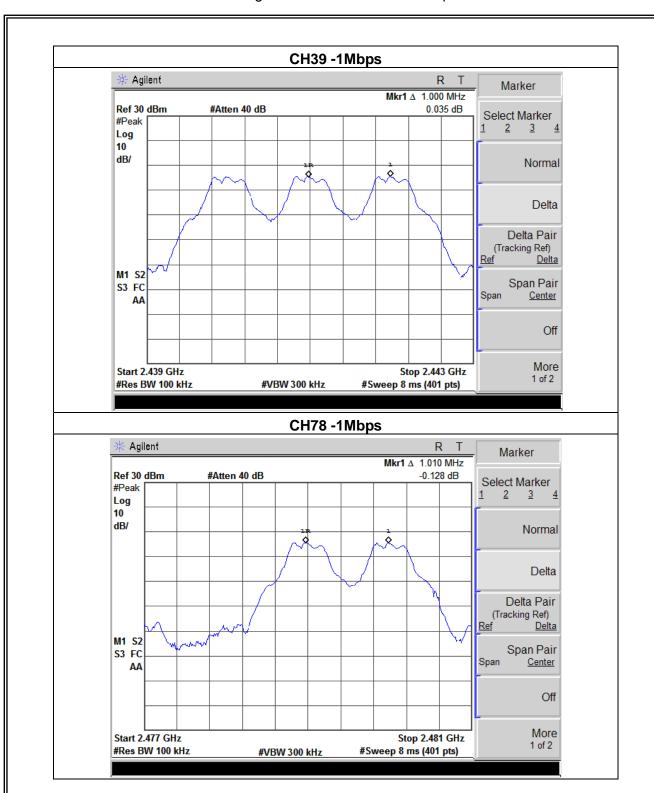
EUT:	Bluetooth headset	Model Name :	LZ380B	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure :	1012 hPa Test Voltage : DC 3.7V			
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)			

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.020	Complies
2441 MHz	1.000	Complies
2480 MHz	1.010	Complies

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



Page 41 of 69 Report No.: PTS201502321F



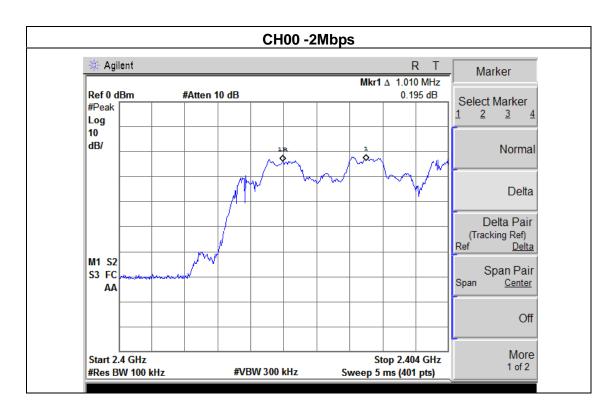


Page 42 of 69 Report No.: PTS201502321F

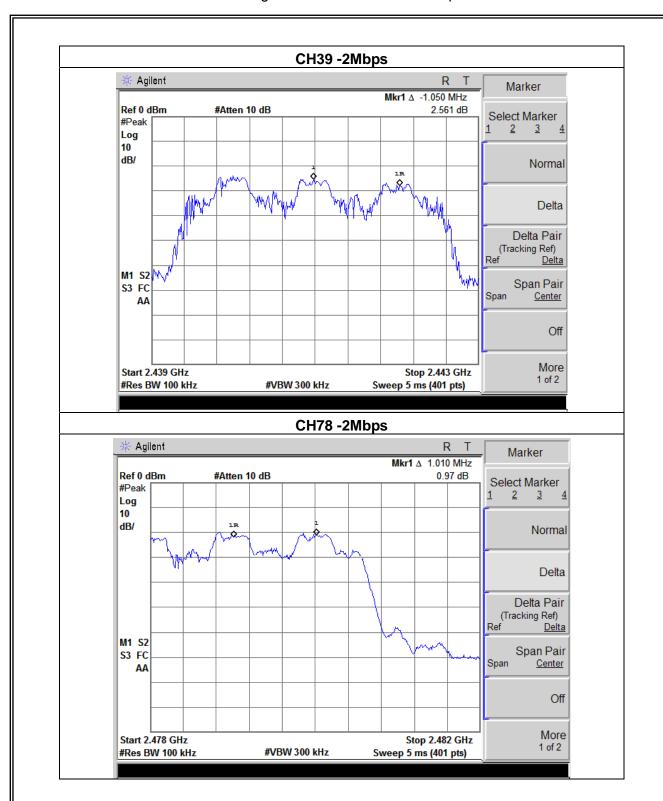
EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.010	Complies
2441 MHz	1.050	Complies
2480 MHz	1.010	Complies

Ch. Separation Limits: >20dB bandwidth



Page 43 of 69 Report No.: PTS201502321F



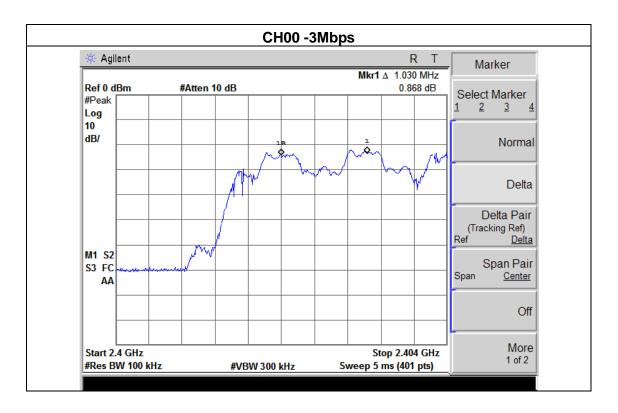


Page 44 of 69 Report No.: PTS201502321F

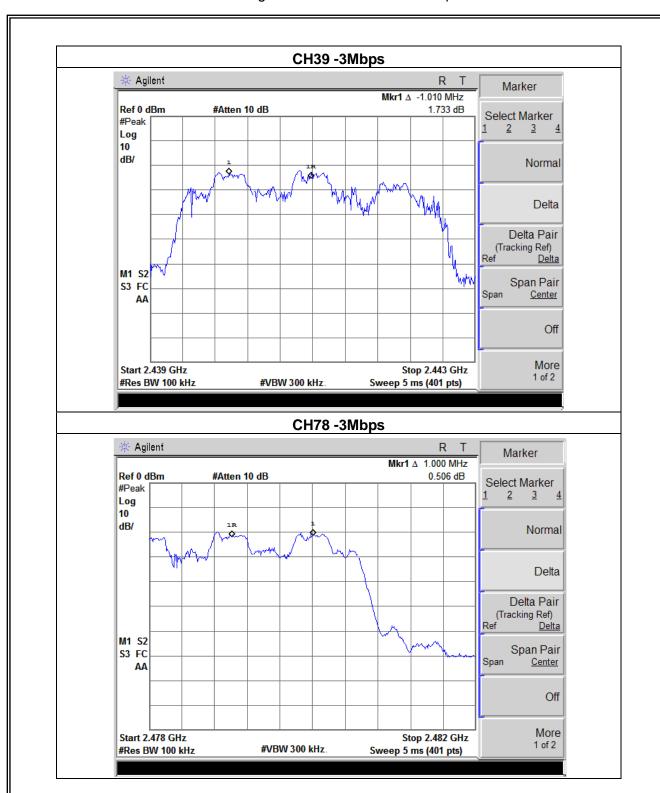
EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.030	Complies
2441 MHz	1.010	Complies
2480 MHz	1.000	Complies

Ch. Separation Limits: >20dB bandwidth



Page 45 of 69 Report No.: PTS201502321F



Page 46 of 69 Report No.: PTS201502321F

7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

I.I AFFLILD FROM	.1 AFFLIED FROCEDORES / LIMIT				
	FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) 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

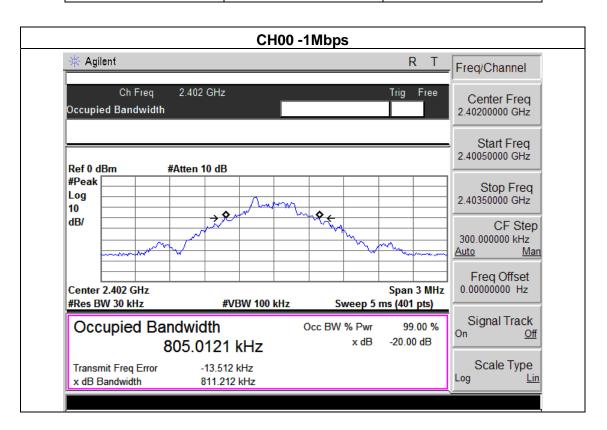
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Page 47 of 69 Report No.: PTS201502321F

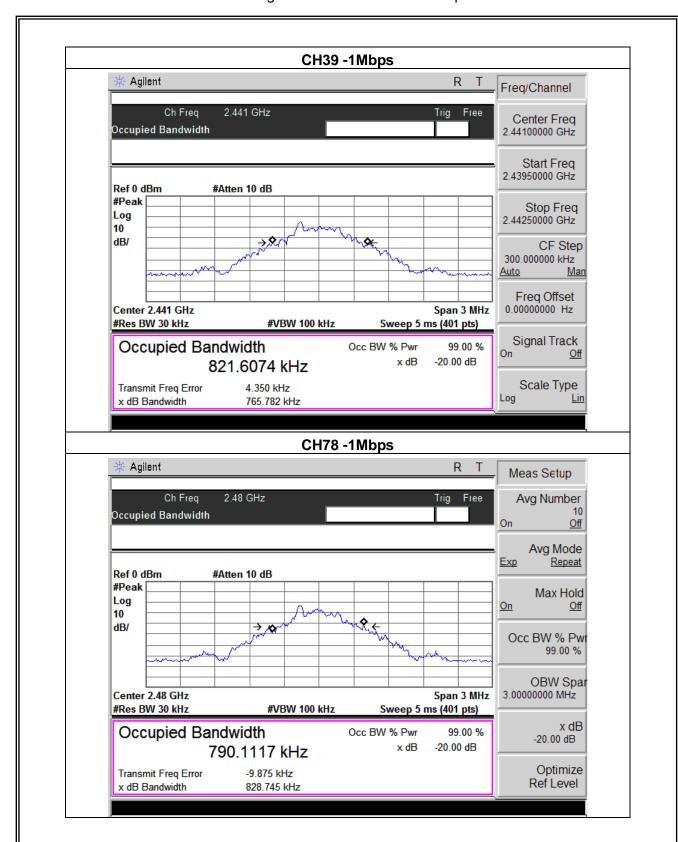
7.1.5 TEST RESULTS

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	811.21	PASS
2441 MHz	765.78	PASS
2480 MHz	828.75	PASS



Page 48 of 69 Report No.: PTS201502321F

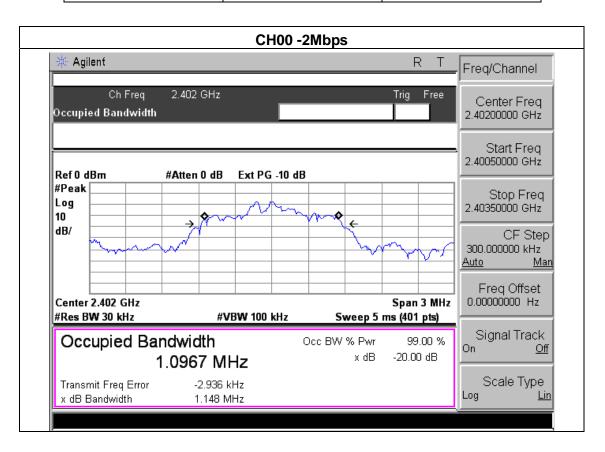




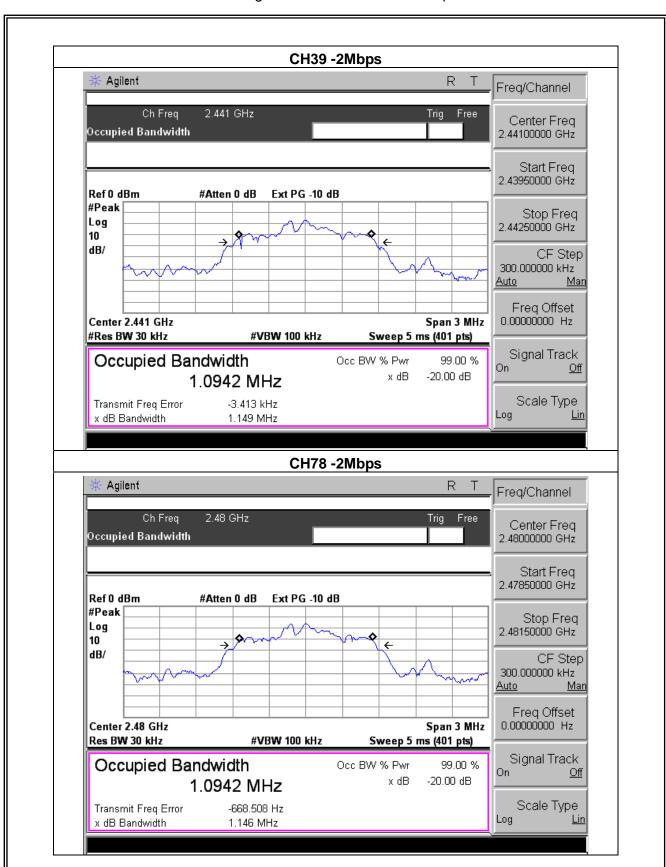
Page 49 of 69 Report No.: PTS201502321F

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78 (2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.148	PASS
2441 MHz	1.149	PASS
2480 MHz	1.146	PASS



Page 50 of 69 Report No.: PTS201502321F

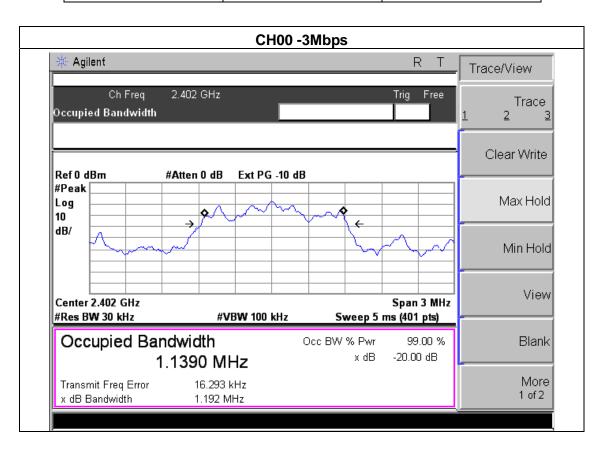




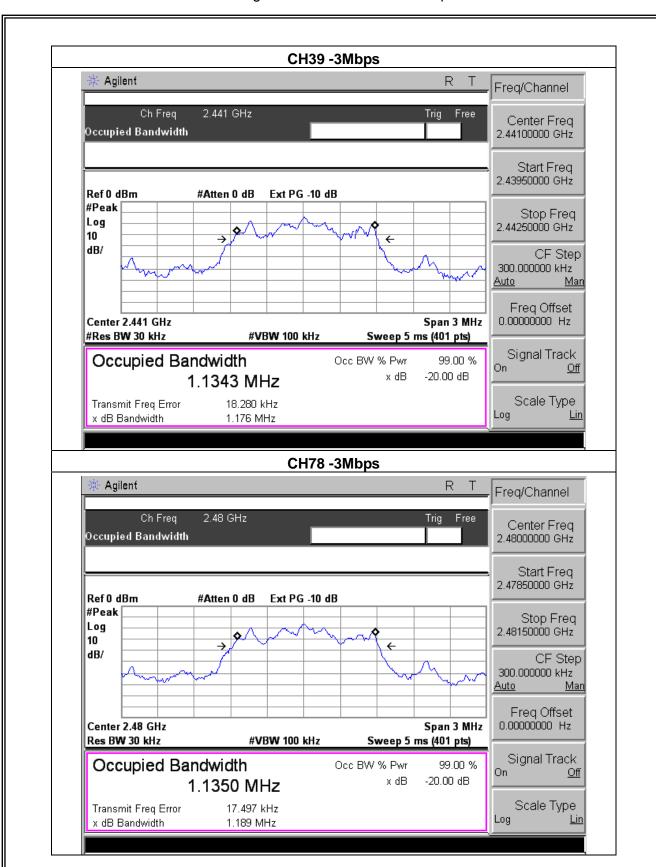
Page 51 of 69 Report No.: PTS201502321F

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.192	PASS
2441 MHz	1.176	PASS
2480 MHz	1.189	PASS



Page 52 of 69 Report No.: PTS201502321F





Page 53 of 69 Report No.: PTS201502321F

8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

	y:: /::: 1 === : ::: 0 == 0 :: = 0 ; =::::: :			
FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result			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

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.



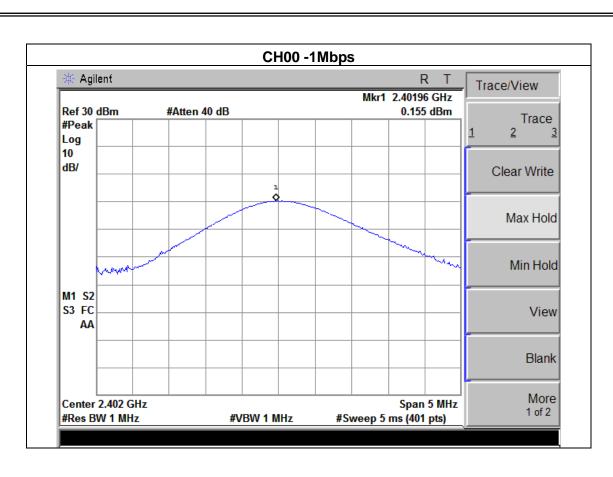
Page 54 of 69 Report No.: PTS201502321F

8.1.5 TEST RESULTS

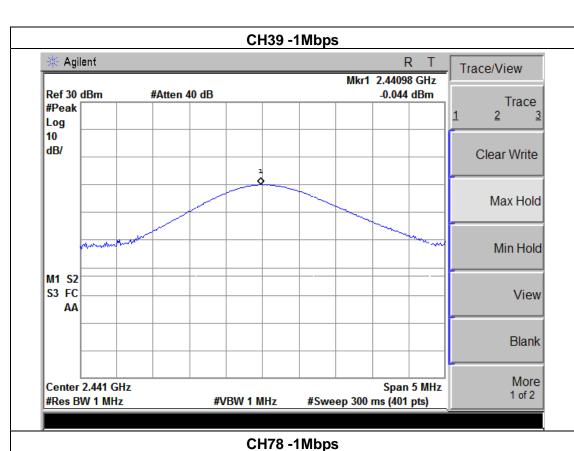
EUT:	Bluetooth headset	Model Name :	LZ380B	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1012 hPa Test Voltage : DC 3.7V			
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)			

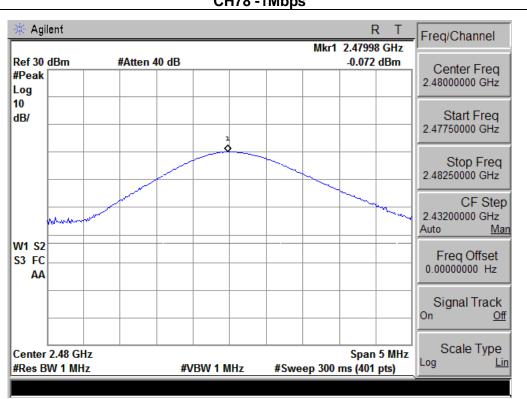
1Mbps				
Test Channel	Frequency	Peak Output Power	LIMIT	
rest Chamilei	(MHz)	(dBm)	(dBm)	
CH00	2402	0.155	20.96	
CH39	2441	-0.044	20.96	
CH78	2480	-0.072	20.96	
		2Mbps		
CH00	2402	-0.200	20.96	
CH39	2441	-0.363	20.96	
CH78	2480	-0.736	20.96	
	3Mbps			
CH00	2402	-0.393	20.96	
CH39	2441	-0.433	20.96	
CH78	2480	-0.591	20.96	

Page 55 of 69 Report No.: PTS201502321F

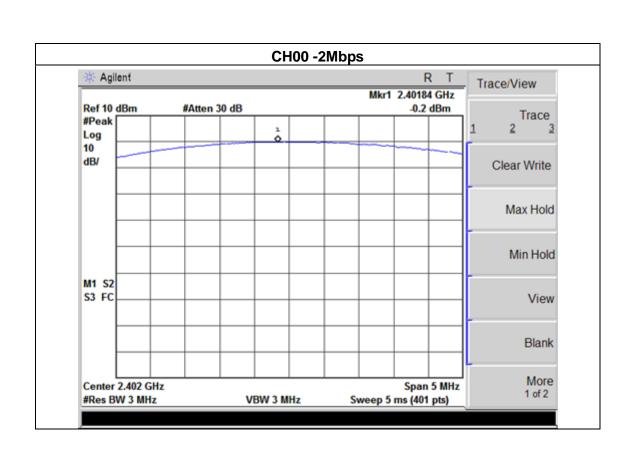


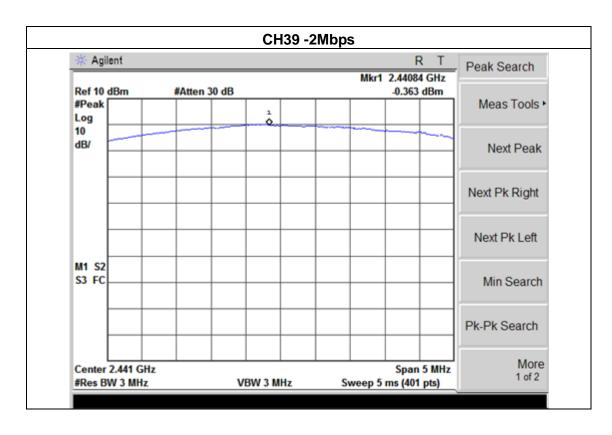
Page 56 of 69 Report No.: PTS201502321F





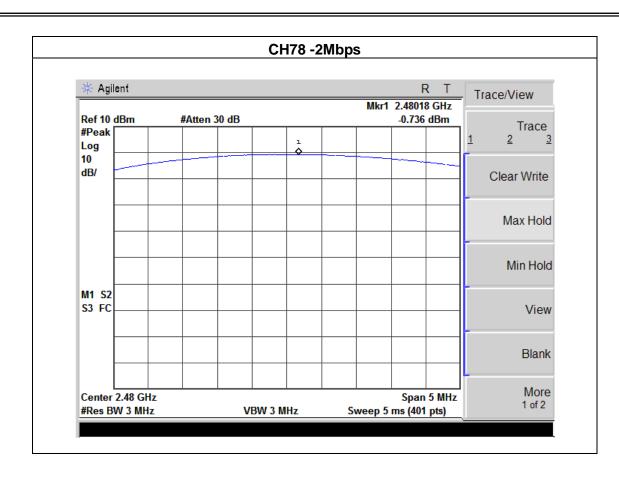




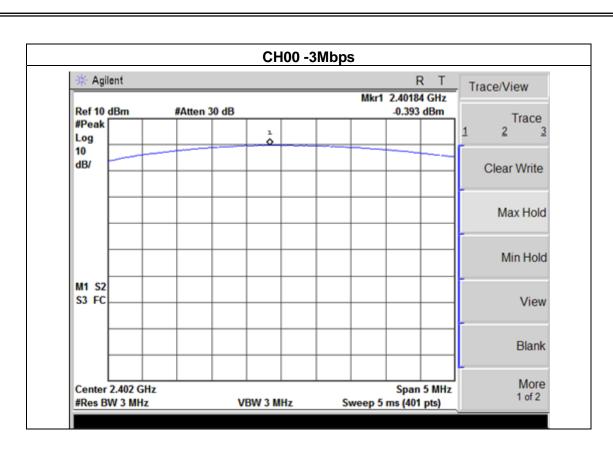




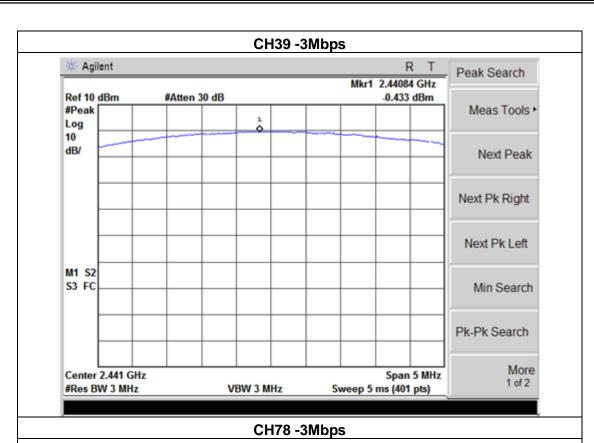
Page 58 of 69 Report No.: PTS201502321F

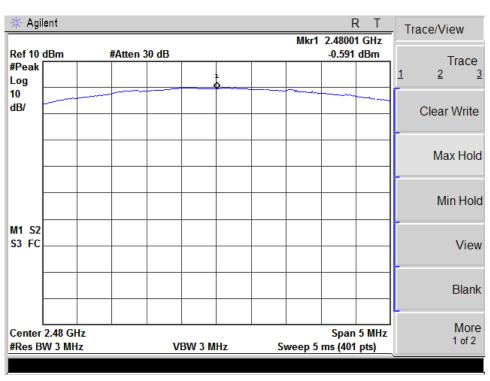


Page 59 of 69 Report No.: PTS201502321F



Page 60 of 69 Report No.: PTS201502321F







Page 61 of 69 Report No.: PTS201502321F

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



Page 62 of 69 Report No.: PTS201502321F

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.

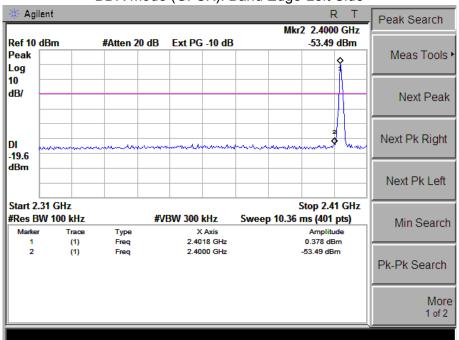
Page 63 of 69 Report No.: PTS201502321F

9.4 TEST RESULTS

EUT:	Bluetooth headset	Model Name :	LZ380B
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa Test Voltage : DC 3.7V		
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)		

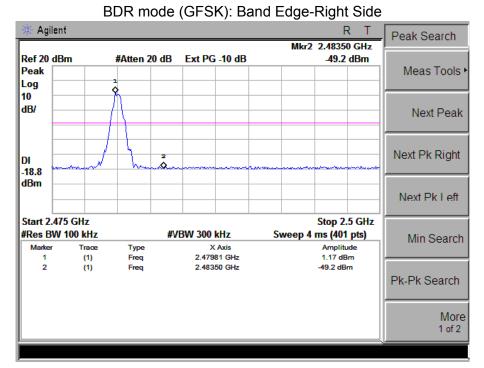
Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result								
BDR mode (GFSK)											
Left-band	53.86	20	Pass								
Right-band	50.37	20	Pass								
EDR mode (π /4-DQPSK)											
Left-band	50.88	20	Pass								
Right-band	48.16	20	Pass								
EDR mode(8DPSK)											
Left-band	50.81	20	Pass								
Right-band	51.53	20	Pass								

BDR mode (GFSK): Band Edge-Left Side

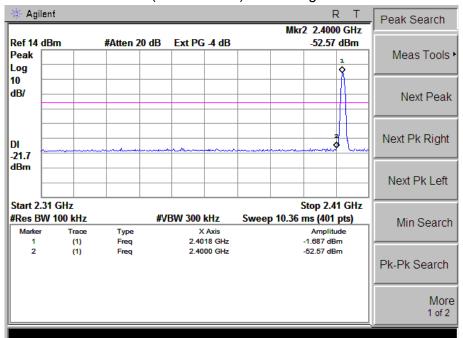




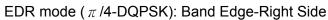
Report No.: PTS201502321F



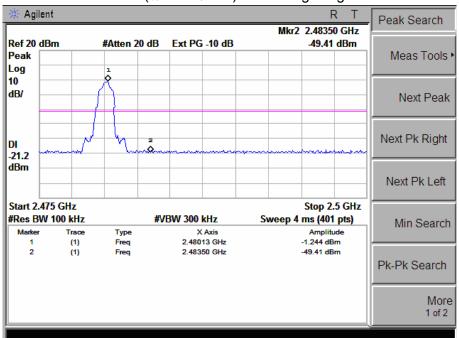
EDR mode (π /4-DQPSK): Band Edge-Left Side



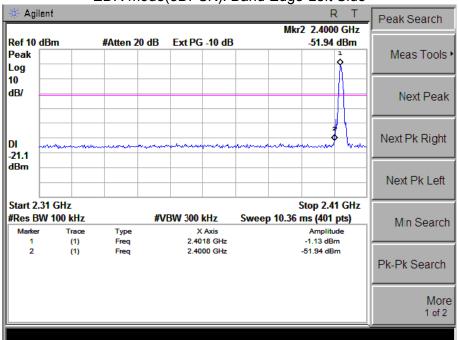




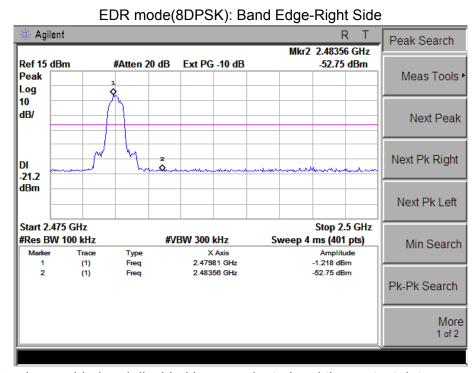
Report No.: PTS201502321F



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



Page 66 of 69 Report No.: PTS201502321F



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



Page 67 of 69 Report No.: PTS201502321F

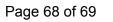
10. ANTENNA REQUIREMENT

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

Γhe	ΕL	JΤ	ante	enna	is	Ρ	CB	an	tenna	. It	t comp	Эly	wit	:h	the s	tanc	larc	l requ	ireme	nt.
-----	----	----	------	------	----	---	----	----	-------	------	--------	-----	-----	----	-------	------	------	--------	-------	-----



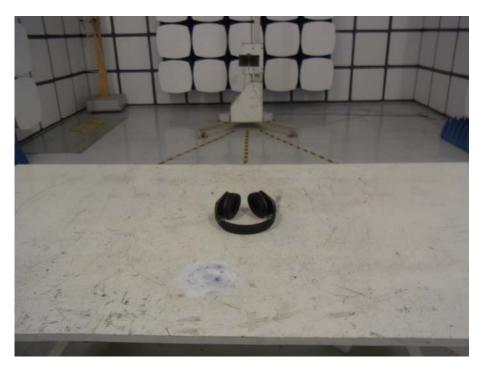


11. EUT TEST PHOTO

Radiated Measurement Photos

Report No.: PTS201502321F







Page 69 of 69 Report No.: PTS201502321F

CONDUCTED EMISSION Photos

