



Test Report No.: RF170426N012

TEST REPORT

Applicant	BRAVEN LC
Address	6001 Oak Canyon Irvine CA 92618 US

Manufacturer or Supplier	Tendo International Co.,Ltd.					
Address	coom 915,Unit 2, Global Trading Center, Dongcheng District, Dongguan, Guangdong, 523123, China					
Product	Braven Flye Sport Power Earbuds					
Brand Name	BRAVEN					
Model	BFSP					
Additional Model & Model Difference	BFSPXX("X" can be replaced by letter A-Z); items 3.1					
Date of tests	Apr. 26, 2017 ~ May 11, 2017					

the tests have been carried out according to the requirements of the following standard:

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Andy Zhu	Approved by Glyn He
Project Engineer / EMC Department	Supervisor / EMC Department

Date: Jun. 12, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170426N012	Original release	Jun. 12, 2017

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

A	APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)									
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK							
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.							
15.205 15.209	Radiated Emission	PASS	Meet the requirement of limit.							
15.247(d)	Out of band Emission Measurement	PASS	Meet the requirement of limit.							
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.							
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.							
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.							
15.203	Antenna Requirement	PASS	No antenna connector is used							

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.70dB
	9KHz ~ 30MHz	2.90dB
Radiated emissions	30MHz ~ 1GMHz	3.83dB
Nadiated emissions	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Braven Flye Sport Power Earbuds
MODEL NO.	BFSP
ADDITIONAL MODELS	BFSPXX("X" can be replaced by letter A-Z);
FCC ID	Z7RBEBB60
	Recharge Stand: DC 5V from USB Host Unit
NOMINAL VOLTAGE	Earbuds: DC 3.7V from Li-ion Battery or DC 5V from Recharge Stand
MODULATION TYPE	GFSK, 8DPSK, π/4 DQPSK For FHSS
MODULATION TIPE	BT-LE(GFSK) for DTS
MODULATION TECHNOLOGY	FHSS, DSSS & OFDM
OPERATING FREQUENCY	2402-2480MHz
OUTPUT POWER(PEAK)	2.56dBm (Maximum)
ANTENNA TYPE	FPCB Antenna, 2.05dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Line: Unshielded, Detachable, 0.2m.

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 170426N012) for detailed product photo.
- 4. Additional models BFSPXX("X" can be replaced by letter A-Z) are identical with the test model BFSG except the model no. and the color about appearance for trading purpose.



3.2 DESCRIPTION OF TEST MODES

40 channels are provided for BT-LE(GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.2.1. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE		APPLICABLE TO			DESCRIPTION	
MODE	RE<1G	RE≥1G	PLC	APCM	DESCRIPTION	
Α	$\sqrt{}$	\checkmark	-	\checkmark	Powered by Full Battery	
В	-	-	√	-	Powered by Adapter	

Where

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

PLC: Power Line Conducted Emission

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RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE TESTED CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
BT-LE	0 to 39	39	DTS	GFSK	1

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
BT-LE	0 to 39	0,19, 39	DTS	GFSK	1

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
BT-LE	0 to 39	39	DTS	GFSK	1

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ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture)
- Following channel(s) was (were) selected for the final test as listed below.

MODE AVAILABLE CHANNEL		TESTED	MODULATION	MODULATION	DATA RATE
		CHANNEL	TECHNOLOGY	TYPE	(Mbps)
BT-LE	0 to 39	0, 19, 39	DTS	GFSK	1

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 55%RH	DC 3.7V From Battery	Hardy Leng
RE≥1G	25deg. C, 55%RH	DC 3.7V From Battery	Hardy Leng
PLC	25deg. C, 60%RH	DC 5V from adapter	Robert Cheng
APCM	20deg. C, 55%RH	DC 3.7V From Battery	Robert Cheng

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3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.247 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	LENOVO	C-P30	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

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4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)				
	Quasi-peak	Average			
0.15 ~ 0.5	66 to 56	56 to 46			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,17	Apr. 04,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 06,17	Mar. 05,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,17	Apr. 04,18
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 04,17	Jan. 03,18
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

NOTE:

- 1. The test was performed in shielded room 553.
- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

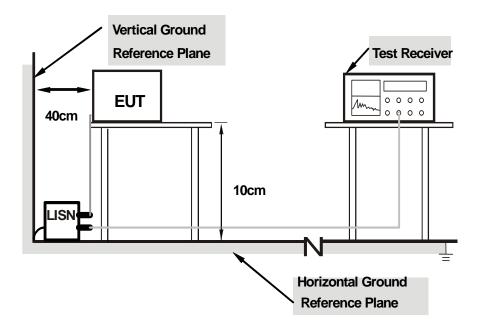
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 10cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Turned on the power and connected of all equipment. a.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

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Dongguan Branch



4.1.7 TEST RESULTS

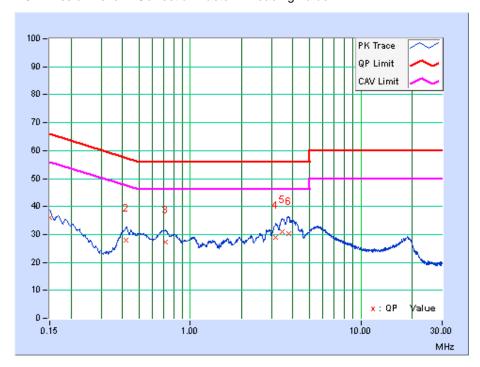
CONDUCTED WORST-CASE DATA: BT-LE(GFSK) CH39

PHASE	Line	6dB BANDWIDTH	9kHz
-------	------	---------------	------

No Freq.		Freq. Factor		Freq. Factor [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.22	25.64	12.83	35.86	23.05	66.00	56.00	-30.14	-32.95	
2	0.41965	10.22	17.83	8.85	28.05	19.07	57.46	47.46	-29.40	-28.38	
3	0.71345	10.22	16.93	8.78	27.15	19.00	56.00	46.00	-28.85	-27.00	
4	3.17175	10.22	18.78	8.43	29.00	18.65	56.00	46.00	-27.00	-27.35	
5	3.44850	10.22	20.86	9.26	31.08	19.48	56.00	46.00	-24.92	-26.52	
6	3.78825	10.22	20.08	9.50	30.30	19.72	56.00	46.00	-25.70	-26.28	

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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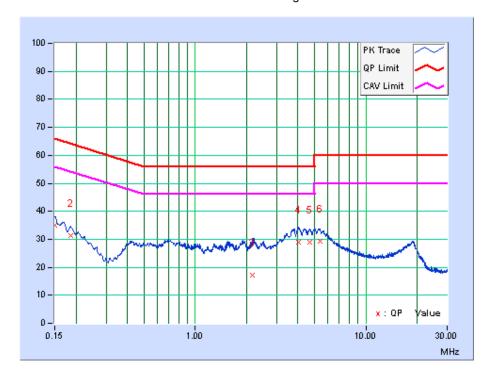
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PHASE	Neutral	6dB BANDWIDTH	9kHz
-------	---------	---------------	------

No	· I IMHTI I			g Value (uV)]		on Level (uV)]	Liı [dB (gin B)
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.01	25.16	11.87	35.17	21.88	66.00	56.00	-30.83	-34.12
2	0.18559	10.01	21.16	10.10	31.17	20.11	64.23	54.23	-33.06	-34.12
3	2.17275	10.02	7.06	-0.31	17.08	9.71	56.00	46.00	-38.92	-36.29
4	4.01550	10.02	19.05	7.38	29.07	17.40	56.00	46.00	-26.93	-28.60
5	4.69950	10.02	18.85	10.24	28.87	20.26	56.00	46.00	-27.13	-25.74
6	5.39925	10.02	19.40	13.48	29.42	23.50	60.00	50.00	-30.58	-26.50

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 11,17	Mar. 10,18
Signal and Spectrum Analyzer	Rohde&Schwar z	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 22,16	Dec. 21,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,17	Mar. 03, 18
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,16	May 17,17
Horn Antenna (15GHz-40GHz)	SCHWARZBEC K	BBHA 9170	BBHA9170147	Jan. 21,17	Jan. 20,18
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 16	Aug. 07, 17
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	NSEMC003	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170242	Mar. 12,17	Mar. 11,18
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBEC K	BBV9718	305	Mar. 09,17	Mar. 08,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTE:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 502831.



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4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4.All modes of operation were investigated and the worst-case emissions are reported.
- 5.The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

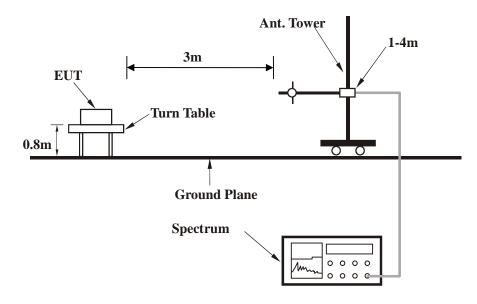
4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



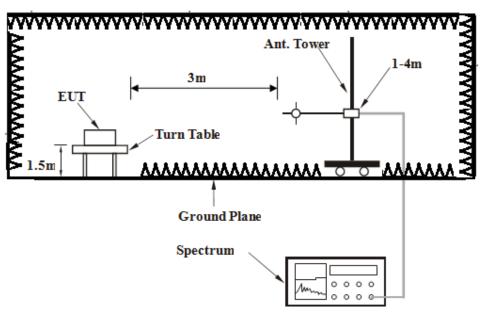
4.2.5 TEST SETUP

Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).



4.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

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4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

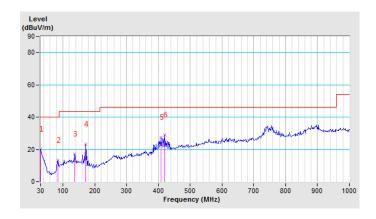
BT-LE (GFSK)

CHANNEL	TX Channel 39	DETECTOR	Ougsi Poek (OP)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)				
1	30.00	20.32 QP	40.00	-19.68	1.00 H	219	31.59	-11.27				
2	84.41	13.44 QP	40.00	-26.56	1.00 H	306	34.29	-20.85				
3	137.26	17.08 QP	43.50	-26.42	1.00 H	24	34.36	-17.28				
4	171.46	23.13 QP	43.50	-20.37	1.00 H	258	41.64	-18.51				
5	407.74	27.44 QP	46.00	-18.56	1.00 H	331	35.77	-8.33				
6	420.18	28.93 QP	46.00	-17.07	1.00 H	298	37.80	-8.87				

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The emission levels of other frequencies were less than 20dB margin against the limit.



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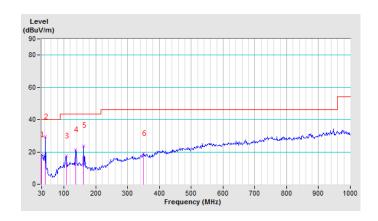
Test Report No.: RF170426N012

CHANNEL	TX Channel 39	DETECTOR	Quasi Peak (QD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)				
1	30.00	18.22 QP	40.00	-21.78	1.00 V	206	29.49	-11.27				
2	42.44	29.47 QP	40.00	-10.53	1.00 V	315	47.21	-17.74				
3	107.72	17.38 QP	43.50	-26.12	1.00 V	32	35.37	-17.99				
4	137.26	21.17 QP	43.50	-22.33	1.00 V	233	38.45	-17.28				
5	162.13	23.81 QP	43.50	-19.69	1.00 V	314	41.25	-17.44				
6	350.22	19.19 QP	46.00	-26.81	1.00 V	302	29.99	-10.80				

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The emission levels of other frequencies were less than 20dB margin against the limit.



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ABOVE 1GHz TEST DATA:

BT-LE (GFSK)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	45.87 PK	74.00	-28.13	1.00 H	268	43.07	2.80
2	2390.00	34.17 AV	54.00	-19.83	1.00 H	268	31.37	2.80
3	*2402.00	90.99 PK			1.10 H	268	88.16	2.83
4	*2402.00	86.52 AV			1.10 H	268	83.69	2.83
5	4804.00	53.05 PK	74.00	-20.95	1.00 H	32	47.42	5.63
6	4804.00	44.87 AV	54.00	-9.13	1.00 H	32	39.24	5.63
7	#7206.00	55.98 PK	74.00	-18.02	1.00 H	301	43.07	12.91
8	#7206.00	42.51 AV	54.00	-11.49	1.00 H	301	29.60	12.91
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	45.98 PK	74.00	-28.02	1.00 V	87	43.18	2.80
2	2390.00	34.31 AV	54.00	-19.69	1.00 V	87	31.51	2.80
3	*2402.00	88.51 PK			1.00 V	87	85.68	2.83
4	*2402.00	84.24 AV			1.00 V	87	81.41	2.83
5	4804.00	55.21 PK	74.00	-18.79	1.00 V	349	49.58	5.63
6	4804.00	48.78 AV	54.00	-5.22	1.00 V	349	43.15	5.63
7	#7206.00	55.97 PK	74.00	-18.03	1.00 V	202	43.06	12.91
8	#7206.00	42.48 AV	54.00	-11.52	1.00 V	202	29.57	12.91

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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BUREAU Test Report No.: RF170426N012

CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2440.00	91.79 PK			1.00 H	199	88.85	2.94			
2	*2440.00	87.25 AV			1.00 H	199	84.31	2.94			
3	4880.00	54.89 PK	74.00	-19.11	1.44 H	360	49.13	5.76			
4	4880.00	45.65 AV	54.00	-8.35	1.44 H	360	39.89	5.76			
5	7320.00	61.02 PK	74.00	-12.98	1.00 H	8	47.43	13.59			
6	7320.00	43.65 AV	54.00	-10.35	1.00 H	8	30.06	13.59			
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	-			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2440.00	90.47 PK			1.00 V	207	87.53	2.94			
2	*2440.00	86.31 AV			1.00 V	207	83.37	2.94			
3	4880.00	55.41 PK	74.00	-18.59	1.00 V	314	49.65	5.76			
4	4880.00	48.75 AV	54.00	-5.25	1.00 V	314	42.99	5.76			
5	7320.00	56.36 PK	74.00	-17.64	1.00 V	360	42.77	13.59			
6	7320.00	43.32 AV	54.00	-10.68	1.00 V	360	29.73	13.59			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	93.87 PK			1.89 H	201	90.81	3.06			
2	*2480.00	89.39 AV			1.89 H	201	86.33	3.06			
3	2483.50	59.96 PK	74.00	-14.04	1.89 H	201	56.89	3.07			
4	2483.50	50.55 AV	54.00	-3.45	1.89 H	201	47.48	3.07			
5	4960.00	55.01 PK	74.00	-18.99	1.00 H	215	49.11	5.90			
6	4960.00	43.87 AV	54.00	-10.13	1.00 H	215	37.97	5.90			
7	7440.00	58.35 PK	74.00	-15.65	1.00 H	210	44.05	14.30			
8	7440.00	44.57 AV	54.00	-9.43	1.00 H	210	30.27	14.30			
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 3 M	-			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	93.24 PK			1.44 V	213	90.18	3.06			
2	*2480.00	89.35 AV			1.44 V	213	86.29	3.06			
3	2483.50	58.95 PK	74.00	-15.05	1.44 V	213	55.88	3.07			
4	2483.50	50.87 AV	54.00	-3.13	1.44 V	213	47.80	3.07			
5	4960.00	53.64 PK	74.00	-20.36	2.40 V	121	47.74	5.90			
6	4960.00	44.74 AV	54.00	-9.26	2.40 V	121	38.84	5.90			
7	7440.00	57.98 PK	74.00	-16.02	1.00 V	54	43.68	14.30			
8	7440.00	43.93 AV	54.00	-10.07	1.00 V	54	29.63	14.30			

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



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4.3 6DB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6DB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 16	Aug.07, 17
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A

NOTE:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.3.3 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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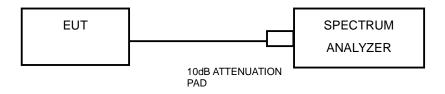
Dongguan Branch



4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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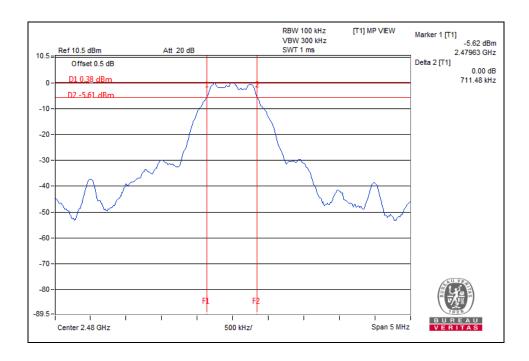


BUREAU Test Report No.: RF170426N012

4.3.7 TEST RESULTS

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.709	0.5	PASS
19	2440	0.707	0.5	PASS
39	2480	0.711	0.5	PASS



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4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 16	Aug.07, 17
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A

NOTE:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.3.4 TEST PROCEDURES

A peak sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.7 TEST RESULTS

4.4.7.1 MAXIMUM PEAK OUTPUT POWER

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	-0.12	0.9727	1	PASS
19	2440	1.34	1.3610	1	PASS
39	2480	2.56	1.8030	1	PASS



4.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)	
0	2402	-1.99	0.6324	
19	2440	-0.43	0.9060	
39	2480	0.59	1.1460	

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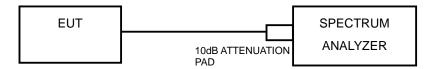


4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- 1. Set the span to 1.5 times the DTS bandwidth
- 2. Set the RBW = 3 kHz, VBW $\geq 3 \text{ x RBW}$, Detector = peak.
- 3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

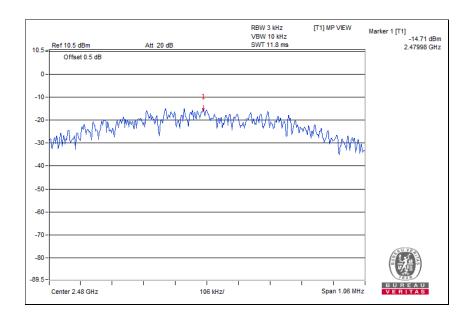
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.5.7 TEST RESULTS

BT-LE (GFSK)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-17.84	8	PASS
19	2440	-16.28	8	PASS
39	2480	-14.71	8	PASS



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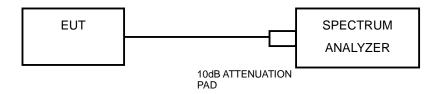


4.6 OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Set span to encompass the spectrum to be examined
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

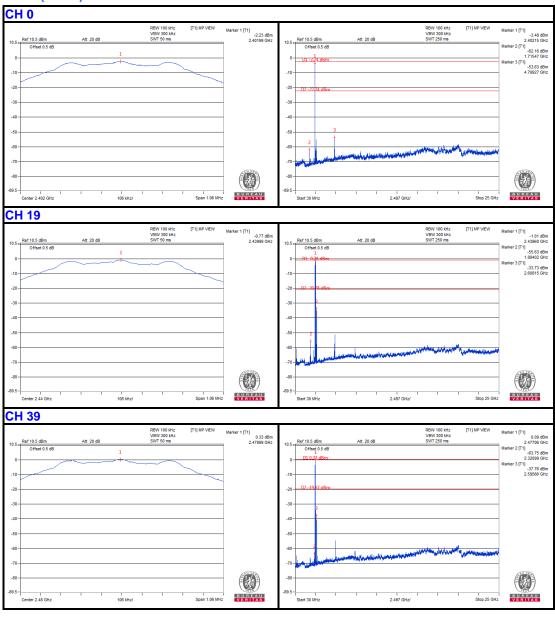
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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4.6.7 TEST RESULTS

BT-LE (GFSK)



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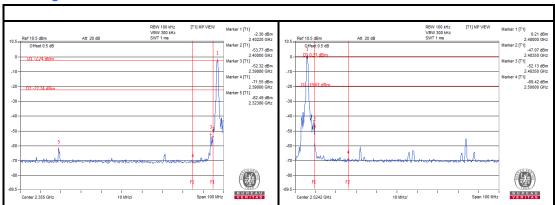
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Report Version 1



Test Report No.: RF170426N012

Band Edge:



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

Modifications are made to the EUT by the lab during the test.

See material declaration.

---END---

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