

TEST REPORT

Applicant : Daorui Zhiyuan Electronic Commerce (Shenzhen) Co., Ltd.
Address : 401, Building 1, Zhonglian Exhibition New Energy Vehicle City,
Yuanshan Street, Longgang District, Shenzhen, Guangdong
Province, China.

Manufacturer : Daorui Zhiyuan Electronic Commerce (Shenzhen) Co., Ltd.
Address : 401, Building 1, Zhonglian Exhibition New Energy Vehicle City,
Yuanshan Street, Longgang District, Shenzhen, Guangdong
Province, China.

Product Name : Toy Series

Model Number : RDC, RDC2, RDC3

Trademark : N/A

FCC ID : 2BUE3-RDC

Test Date : Jan. 06, 2026 - Jan. 27, 2026

Date of Report : Jan. 27, 2026

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.249
ANSI C63.10:2020

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Approved(Manager):
Jerry Liao



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**Revision History of This Test Report**

Report Number	Description	Issued Date
BKC26010312AE	Initial Issue	2026-01-27

1. General Information

1.1. Description of Device (EUT)

EUT Name : Toy Series

Model No. : RDC, RDC2, RDC3

Model Difference : The product is different for model name and outlook color.
The mains test model is RDC

Power supply : Battery DC 3V

Operation frequency : 2405-2475MHz

Modulation : GFSK

Antenna Type : Internal antenna, Maximum Gain is 0.2 dBi

Intend use environment : Residential, commercial and light industrial environment

1.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2405	27	2432	54	2459
01	2406	28	2433	55	2460
02	2407	29	2434	56	2461
03	2408	30	2435	57	2462
04	2409	31	2436	58	2463
05	2410	32	2437	59	2464
06	2411	33	2438	60	2465
07	2412	34	2439	61	2466
08	2413	35	2440	62	2467
09	2414	36	2441	63	2468
10	2415	37	2442	64	2469
11	2416	38	2443	65	2470
12	2417	39	2444	66	2471
13	2418	40	2445	67	2472
14	2419	41	2446	68	2473
15	2420	42	2447	69	2474
16	2421	43	2448	70	2475
17	2422	44	2449		
18	2423	45	2450		
19	2424	46	2451		
20	2425	47	2452		
21	2426	48	2453		
22	24327	49	2454		
23	2428	50	2455		
24	2429	51	2456		
25	2430	52	2457		
26	2431	53	2458		

1.3.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	N/A
Field strength of the fundamental signal	FCC part 15.249 (a)	PASS
Spurious emissions	FCC part 15.249 (a) (d)/15.209	PASS
Band edge	FCC part 15.249 (d)/15.205	PASS
20dB Occupied Bandwidth	FCC part 15.215 (c)	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.4.Special Accessories and Auxiliary Equipment

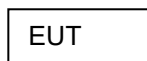
Description	Manufacturer	Model No.	Hardware Version	Software Version
/	/	/	/	/

1.5.Test configuration

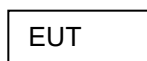
Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	
Test Software	The prototype enters the engineering mode.
Power level setup	0 dBm

1.6.Block Diagram

Radiated Emission



Conducted Spurious



1.7. Test mode

The special RF test software was used to control EUT work in Continuous BLE TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
GFSK	2405MHz	2440MHz	2475MHz
Note: /			

1.8. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	Battery DC 3V	N/A
Note: N/A is an abbreviation for Not Applicable.		

1.9. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.10. Test Facility

Site Description		
Name of Firm	:	Shenzhen BKC Testing Co., Ltd.
Site Location	:	Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	:	CN0188
ISED Company Number	:	34333
FCC Designation Number	:	CN1416
FCC Test Firm Registration Number	:	701543

1.11. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026
5	CE Testing software	EZ	EZ-EMC	/	/	/

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	TESEQ	HLA6121	58357	Mar. 09. 2025	Mar. 10. 2026
10	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026
11	Double Ridged Broadband Horn	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026

	Antenna					
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	Band Stop Filter	Bafang	BSF5G	2024052610	Mar. 09. 2025	Mar. 10. 2026
14	RE Testing software	EZ	EZ-EMC	/		/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/
6	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+

2. Conducted emission at the mains terminals test

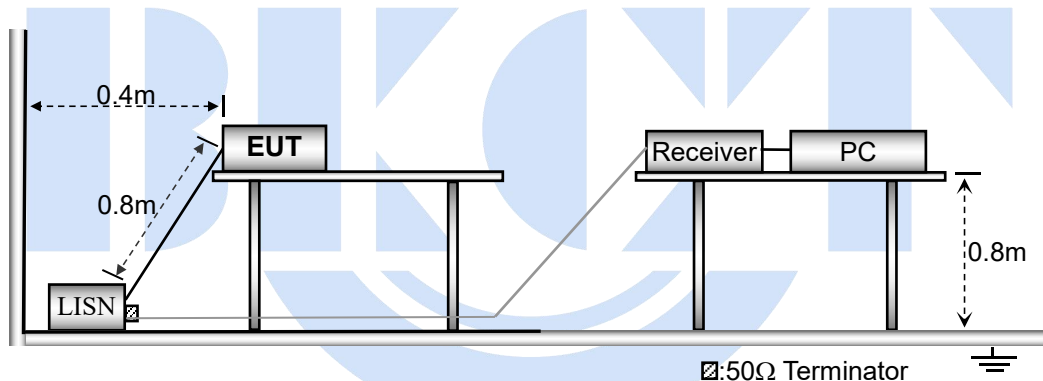
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen 8.8
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup



2.3.Test Procedure

1. 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.
2. 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.
3. 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.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

N/A

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.249

Test Method: ANSI C63.10:2020

Test Result: PASS

Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

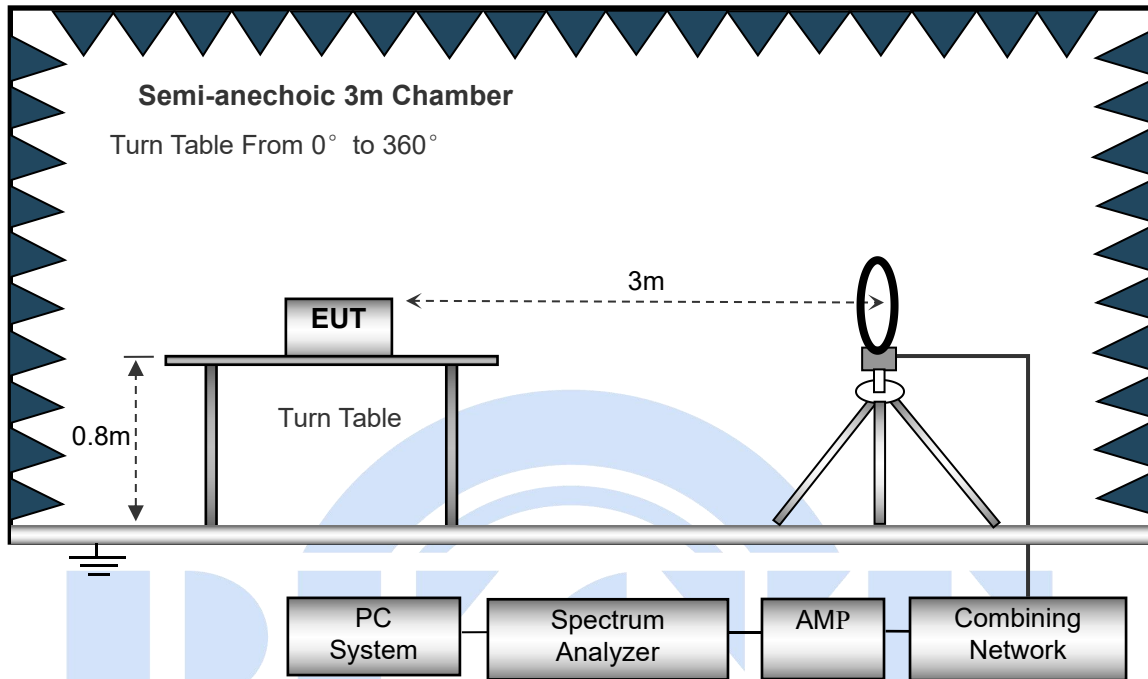
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

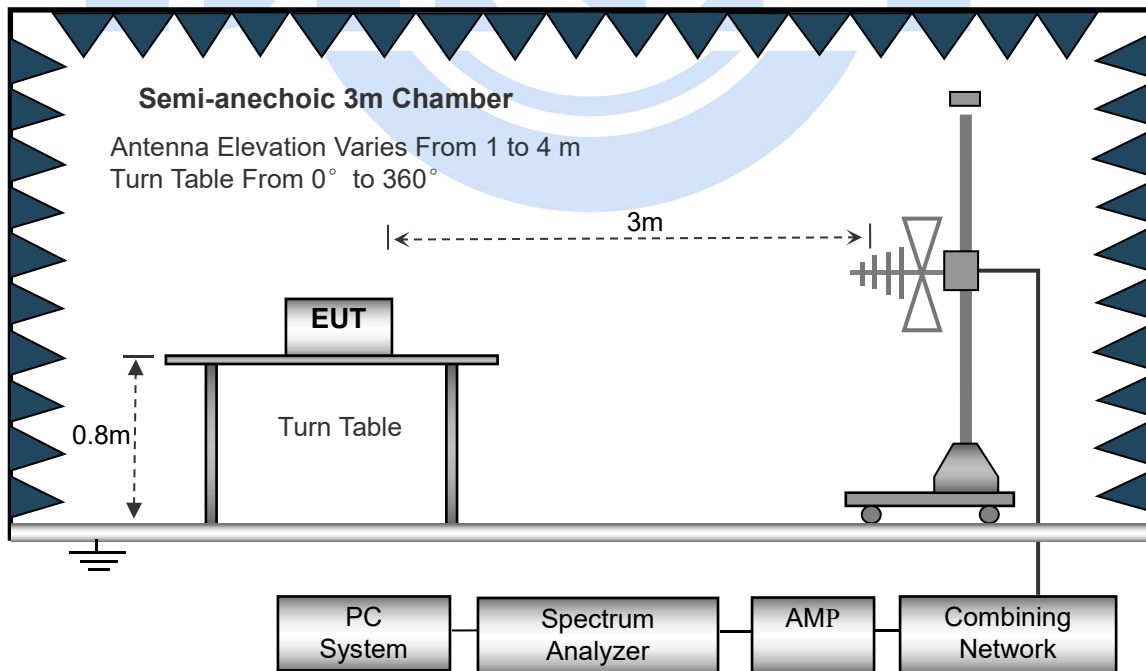
3.2. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

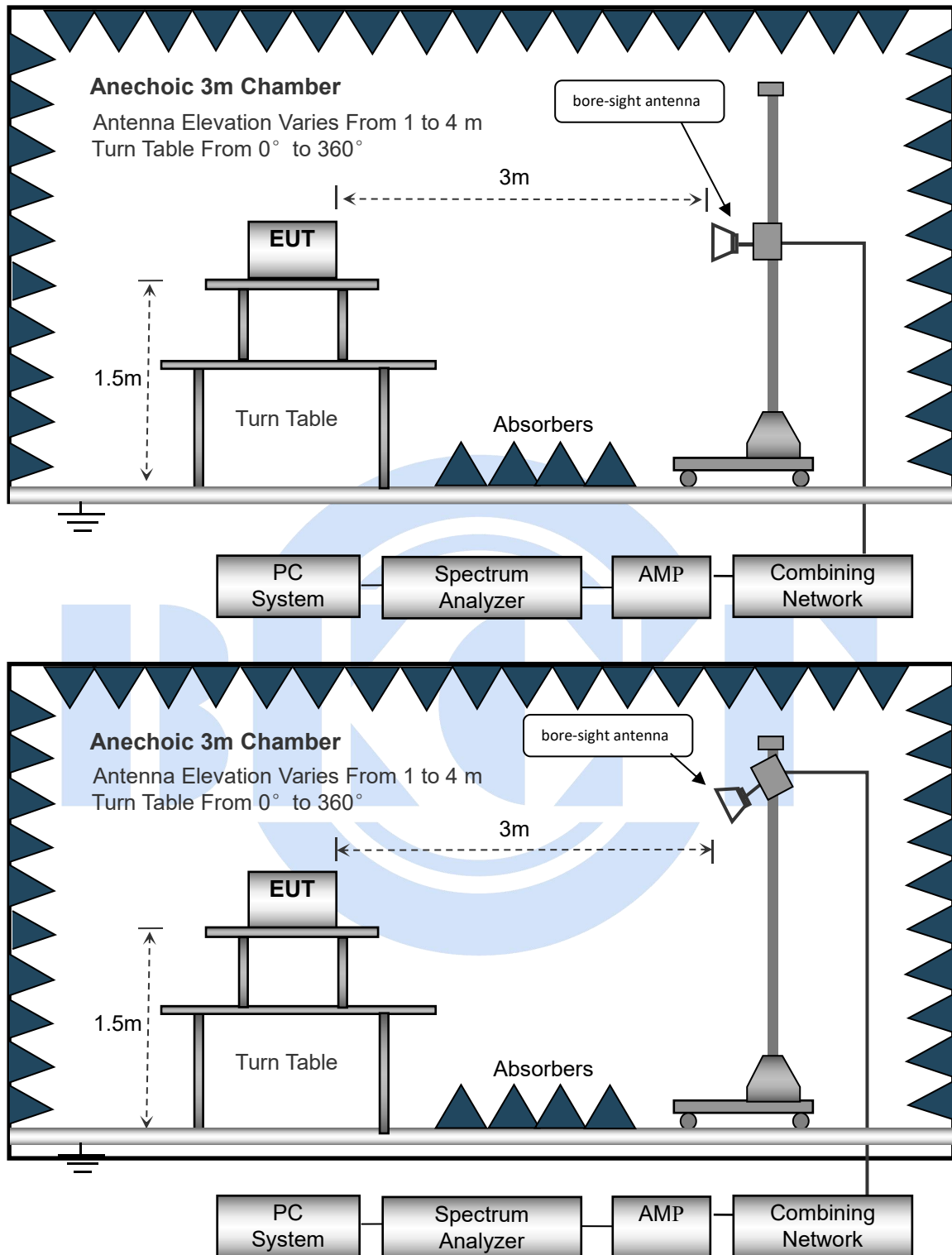
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.



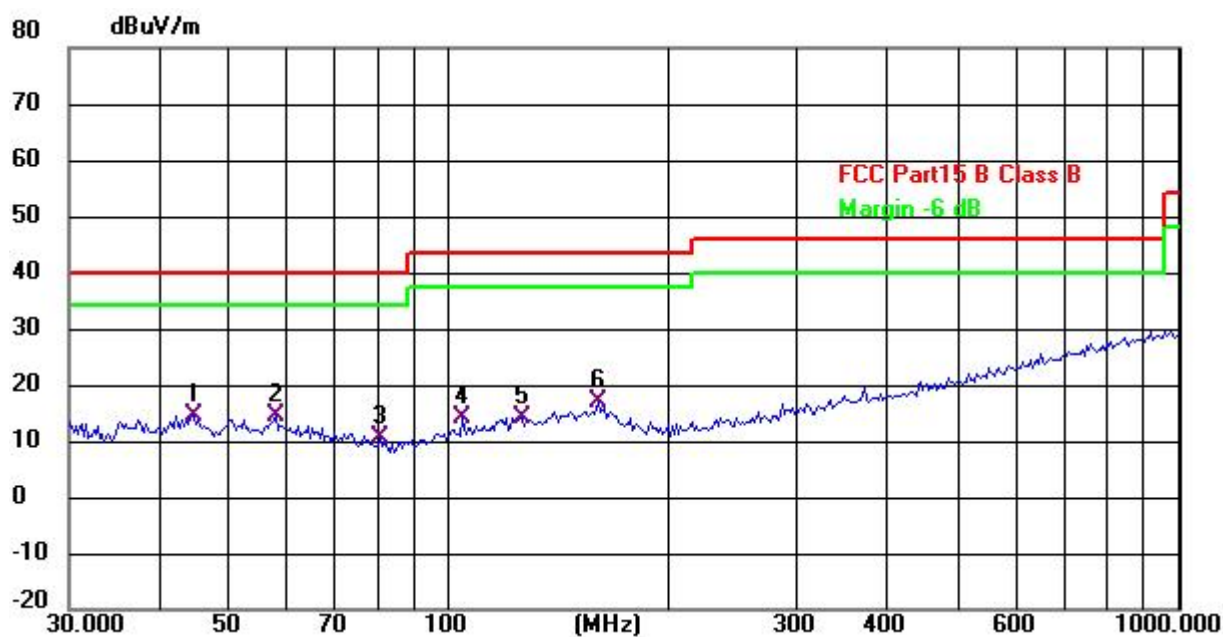
3.4. Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

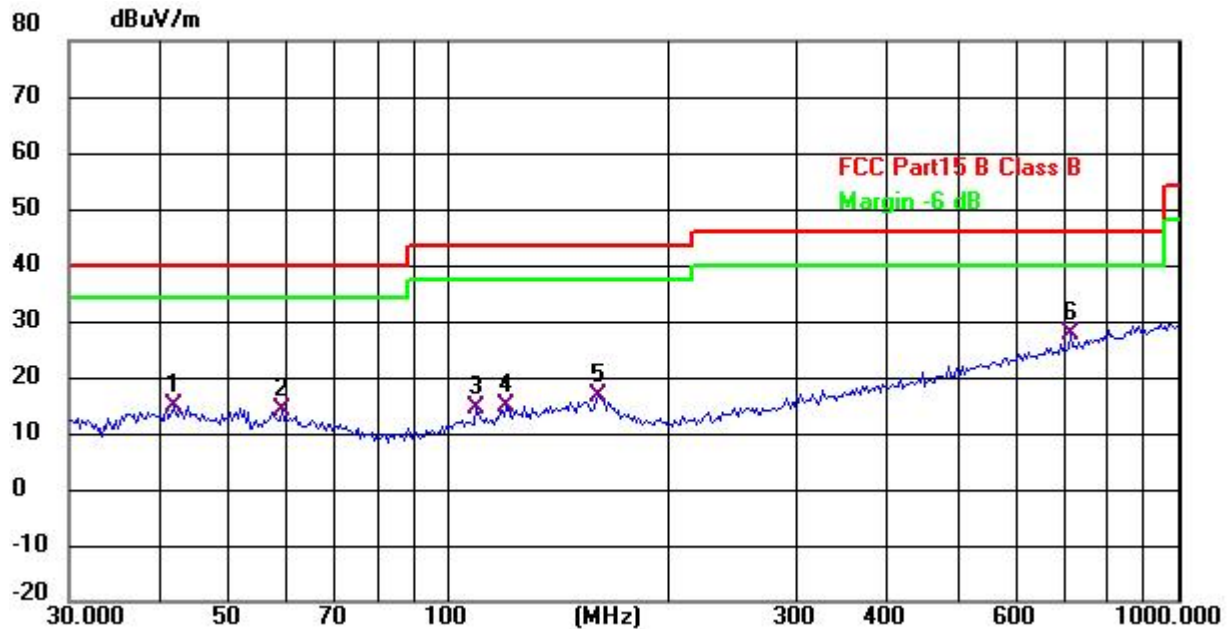
Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 3V	Test Mode	GFSK(CH70)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	44.4308	27.94	-13.30	14.64	40.00	-25.36	QP
2	57.5939	28.38	-14.01	14.37	40.00	-25.63	QP
3	80.0806	28.15	-17.50	10.65	40.00	-29.35	QP
4	103.8055	29.62	-15.50	14.12	43.50	-29.38	QP
5	125.4457	27.85	-13.64	14.21	43.50	-29.29	QP
6	160.3456	28.87	-11.95	16.92	43.50	-26.58	QP

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 3V	Test Mode	GFSK(CH70)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.7129	28.15	-13.16	14.99	40.00	-25.01	QP
2	58.8185	28.25	-14.08	14.17	40.00	-25.83	QP
3	109.0286	29.28	-14.98	14.30	43.50	-29.20	QP
4	119.4360	28.79	-13.96	14.83	43.50	-28.67	QP
5	160.3456	28.44	-11.95	16.49	43.50	-27.01	QP
6 *	714.1733	30.54	-2.91	27.63	46.00	-18.37	QP

FIELD STRENGTH CALCULATION

Frequency	Reading	Factor	Emission Level	Limits	Margin	Horizontal / Vertical	Detector Type
MHz	dB μ V	dB/m	dB μ V/m	dB μ V/m	dB μ V/m		
2405	92.08	-5.81	86.27	114	-27.73	H	PK
2405	79.5	-5.81	73.69	94	-20.31	H	AV
2405	91.27	-5.81	85.46	114	-28.54	V	PK
2405	80.47	-5.81	74.66	94	-19.34	V	AV
2440	90.19	-5.67	84.52	114	-29.48	H	PK
2440	81.49	-5.67	75.82	94	-18.18	H	AV
2440	89.81	-5.67	84.14	114	-29.86	V	PK
2440	81.36	-5.67	75.69	94	-18.31	V	AV
2475	88.57	-5.42	83.15	114	-30.85	H	PK
2475	76.51	-5.42	71.09	94	-22.91	H	AV
2475	87.25	-5.42	81.83	114	-32.17	V	PK
2475	76.99	-5.42	71.57	94	-22.43	V	AV
Note: 1. Emission Level = Reading + Factor , Margin= Emission Level - Limit							



1GHz~25GHz

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2405MHz									
V	4810.000	46.18	32.54	6.29	35.86	55.79	74.00	-18.21	Pk
V	4810.000	32.51	32.54	6.29	35.86	42.12	54.00	-11.88	AV
V	7215.000	46.19	32.98	7.55	38.40	59.16	74.00	-14.84	Pk
V	7215.000	31.68	32.98	7.55	38.40	44.65	54.00	-9.35	AV
V	9620.000	44.03	32.09	8.93	39.00	59.87	74.00	-14.13	Pk
V	9620.000	25.61	32.09	8.93	39.00	41.45	54.00	-12.55	AV
V	12025.000	49.95	34.12	5.03	32.39	53.25	74.00	-20.75	Pk
V	12025.000	35.34	34.12	5.03	32.39	38.64	54.00	-15.36	AV
H	4810.000	45.72	32.98	7.55	38.40	58.69	74.00	-15.31	Pk
H	4810.000	29.04	32.98	7.55	38.40	42.01	54.00	-11.99	AV
H	7215.000	35.05	32.09	8.93	39.00	50.89	74.00	-23.11	Pk
H	7215.000	24.18	32.09	8.93	39.00	40.02	54.00	-13.98	AV
H	9620.000	49.64	34.12	5.03	32.39	52.94	74.00	-21.06	Pk
H	9620.000	39.13	34.12	5.03	32.39	42.43	54.00	-11.57	AV
H	12025.000	45.55	32.54	6.29	35.86	55.16	74.00	-18.84	Pk
H	12025.000	32.22	32.54	6.29	35.86	41.83	54.00	-12.17	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2440MHz									
V	4880.000	45.50	32.63	6.34	35.96	55.17	74.00	-18.83	Pk
V	4880.000	30.86	32.63	6.34	35.96	40.53	54.00	-13.47	AV
V	7320.000	38.81	32.92	7.59	38.4	51.88	74.00	-22.12	Pk
V	7320.000	26.85	32.92	7.59	38.4	39.92	54.00	-14.08	AV
V	9760.000	40.61	31.96	8.88	39.04	56.57	74.00	-17.43	Pk
V	9760.000	26.50	31.96	8.88	39.04	42.46	54.00	-11.54	AV
V	12200.000	46.63	34.07	5.09	32.59	50.24	74.00	-23.76	Pk
V	12200.000	38.35	34.07	5.09	32.59	41.96	54.00	-12.04	AV
H	4880.000	38.98	32.92	7.59	38.4	52.05	74.00	-21.95	Pk
H	4880.000	28.67	32.92	7.59	38.4	41.74	54.00	-12.26	AV
H	7320.000	37.99	31.96	8.88	39.04	53.95	74.00	-20.05	Pk
H	7320.000	24.37	31.96	8.88	39.04	40.33	54.00	-13.67	AV
H	9760.000	47.28	34.07	5.09	32.59	50.89	74.00	-23.11	Pk
H	9760.000	37.30	34.07	5.09	32.59	40.91	54.00	-13.09	AV
H	12200.000	43.36	32.63	6.34	35.96	53.03	74.00	-20.97	Pk
H	12200.000	33.14	32.63	6.34	35.96	42.81	54.00	-11.19	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2475MHz									
V	4950.000	42.58	32.71	6.4	36.05	52.32	74.00	-21.68	Pk
V	4950.000	33.20	32.71	6.4	36.05	42.94	54.00	-11.06	AV
V	7425.000	39.83	32.86	7.62	38.4	52.99	74.00	-21.01	Pk
V	7425.000	26.53	32.86	7.62	38.4	39.69	54.00	-14.31	AV
V	9900.000	38.26	31.82	8.84	39.08	54.36	74.00	-19.64	Pk
V	9900.000	24.89	31.82	8.84	39.08	40.99	54.00	-13.01	AV
V	12375.000	47.44	34.02	5.15	32.8	51.37	74.00	-22.63	Pk
V	12375.000	34.99	34.02	5.15	32.8	38.92	54.00	-15.08	AV
H	4950.000	37.11	32.86	7.62	38.4	50.27	74.00	-23.73	Pk
H	4950.000	26.19	32.86	7.62	38.4	39.35	54.00	-14.65	AV
H	7425.000	36.78	31.82	8.84	39.08	52.88	74.00	-21.12	Pk
H	7425.000	25.60	31.82	8.84	39.08	41.70	54.00	-12.30	AV
H	9900.000	48.39	34.02	5.15	32.8	52.32	74.00	-21.68	Pk
H	9900.000	34.74	34.02	5.15	32.8	38.67	54.00	-15.33	AV
H	12375.000	41.99	32.71	6.4	36.05	51.73	74.00	-22.27	Pk
H	12375.000	33.56	32.71	6.4	36.05	43.30	54.00	-10.70	AV

Note: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
GFSK	Low Channel: 2405MHz									
	H	2390.00	56.76	35.17	3.48	27.49	52.56	74.00	PK	PASS
	H	2390.00	48.88	35.17	3.48	27.49	44.68	54.00	AV	PASS
	H	2400.00	58.75	35.16	3.49	27.52	54.60	74.00	PK	PASS
	H	2400.00	49.10	35.16	3.49	27.52	44.95	54.00	AV	PASS
	V	2390.00	57.38	35.17	3.48	27.49	53.18	74.00	PK	PASS
	V	2390.00	49.30	35.17	3.48	27.49	45.10	54.00	AV	PASS
	V	2400.00	58.79	35.16	3.49	27.52	54.64	74.00	PK	PASS
	V	2400.00	48.96	35.16	3.49	27.52	44.81	54.00	AV	PASS
	High Channel: 2475MHz									
	H	2483.50	57.28	35.11	3.56	27.75	53.48	74.00	PK	PASS
	H	2483.50	48.07	35.11	3.56	27.75	44.27	54.00	AV	PASS
	H	2500.00	58.78	35.10	3.57	27.80	55.05	74.00	PK	PASS
	H	2500.00	49.06	35.10	3.57	27.80	45.33	54.00	AV	PASS
	V	2483.50	57.42	35.11	3.56	27.75	53.62	74.00	PK	PASS
	V	2483.50	49.20	35.11	3.56	27.75	45.40	54.00	AV	PASS
	V	2500.00	57.71	35.10	3.57	27.80	53.98	74.00	PK	PASS
	V	2500.00	49.48	35.10	3.57	27.80	45.75	54.00	AV	PASS
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit										

4. -20 dB Bandwidth Measurement

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.215

Test Method: ANSI C63.10:2020, 47 CFR Part 15.249

4.2.Test Setup

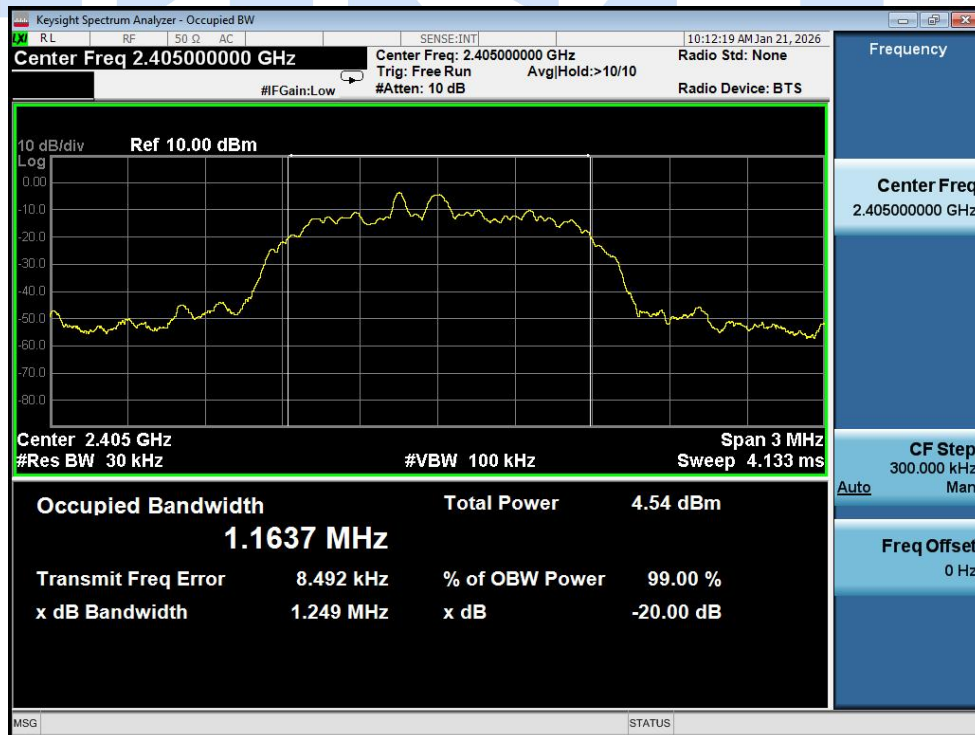


4.3.Test Procedure

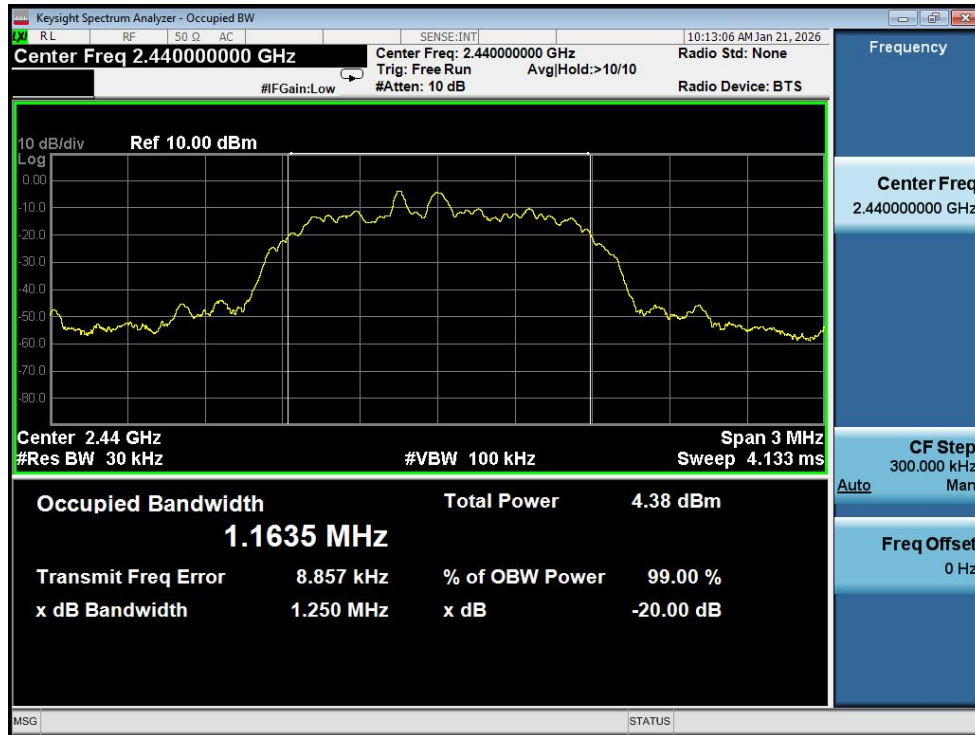
1. Set the spectrum analyzer: RBW = 1%-5% OBW
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by -20 dB relative to the maximum level measured in the fundamental emission

4.4.Test Result

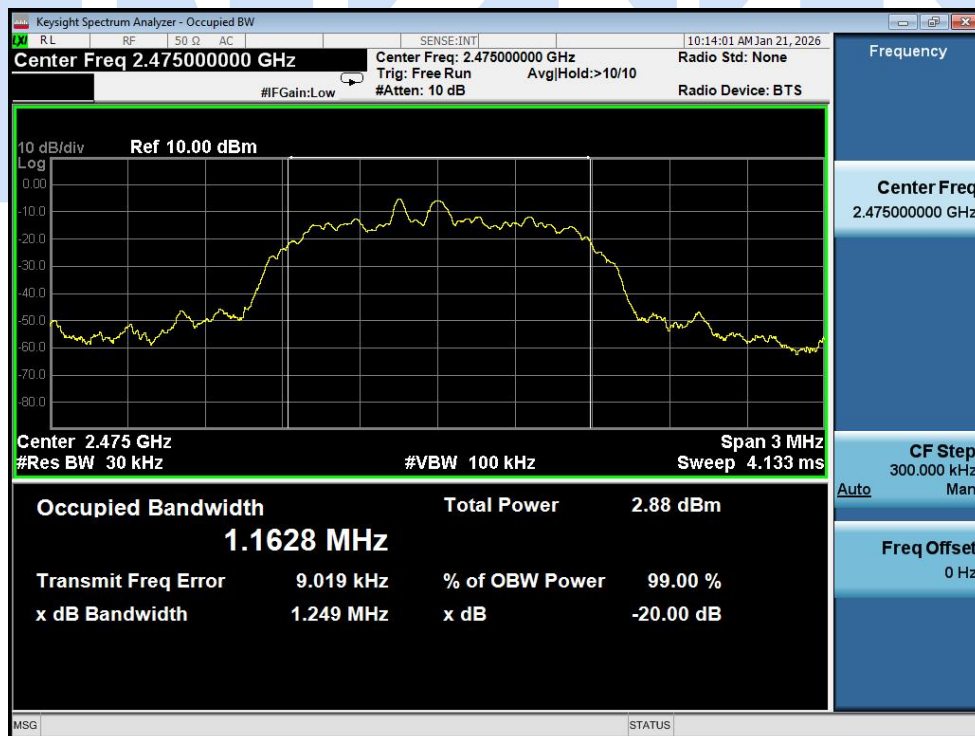
Frequency (MHz)	99% OBW (MHz)	-20dB OBW (MHz)
2405	1.1637	1.249
2440	1.1635	1.250
2475	1.1628	1.249



OBW NVNT 2405MHz



OBW NVNT 2440MHz



OBW NVNT 2480MHz

5. Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.



6. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----

