TEST REPORT
FCC ID:2AG5O-PB801BG
IC:23453-PB801BG

Report Number.....:	ZKT-2303071381E
Date of Test.....	Mar. 07, 2023 to Mar. 30, 2023
Date of issue.....:	Mar. 30, 2023
Total number of pages.....	40
Test Result .....:	PASS
Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address .....:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name .....:	**PB Inc.**
Address .....:	160 NW Gilman Blvd,Unit 352,Issaquah,WA 98027
Manufacturer's name :	**PB Inc.**
Address .....:	160 NW Gilman Blvd,Unit 352,Issaquah,WA 98027
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 March 2019 ANSI C63.10:2013
Test procedure.....:	/
Non-standard test method .....:	N/A
Test Report Form No.....:	TRF-EL-111_V0
Test Report Form(s) Originator.....:	ZKT Testing
Master TRF .....:	Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Product name.....:	**Tag**
Trademark .....:	N/A
Model/Type reference.....:	PB-801-BG
Ratings.....:	Input:DC 5V Battery:DC 3.7V

Testing procedure and testing location:

Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address.....:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature).....:	Tom Zou Tom Zou
Reviewer (name + signature).....:	Jackson Fang Jackson Fang
Approved (name + signature).....:	Lake Xie Lake Xie

Table of Contents **Page**

Table of Contents **Page**

1.VERSION

Report No.	Version	Description	Approved
ZKT-2303071381E	Rev.01	Initial issue of report	Mar. 30, 2023

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C RSS-247			
Standard Section	Test Item	Judgment	Remark
FCC part 15.203/15.247 (c) RSS-Gen Section 6.8	Antenna requirement	PASS	
FCC part 15.207 RSS-Gen Section 8.8	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3) RSS-247 Section 5.4(d)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2) RSS-247 Section 5.2(a) RSS-Gen Section 6.7	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e) RSS-247 Section 5.2(b)	Power Spectral Density	PASS	
FCC part 15.247(d) RSS-247 Section 5.5	Band Edge	PASS	
FCC part 15.205/15.209 RSS-Gen 6.13/8.9/8.10.	Spurious Emission	PASS	

NOTE:

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

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
Designation Number: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 · providing a level of confidence of approximately 95 % ◦

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Tag
Model No.:	PB-801-BG
Model Different.:	N/A
Serial No.:	10235512
Hardware Version:	H1.0
Software Version:	S1.0
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	2.59dBi
Power supply:	Input:DC 5V Battery:DC 3.7V
SWITCHING POWER ADAPTER:	N/A

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

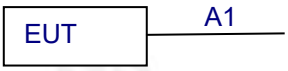
3.2 DESCRIPTION OF TEST MODES

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	BT Test Tool
Power level setup	<0dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission

Conducted Spurious

3.4 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	Tag	N/A	PB-801-BG	***N/A***	EUT
A-1	Adapter	N/A	KP0225	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

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 『Length』 column.

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 28, 2022	Oct. 27, 2023
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSQ	100363	Oct. 28, 2022	Oct. 27, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 28, 2022	Oct. 27, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Nov. 02, 2022	Nov. 01, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Nov. 01, 2022	Oct. 31, 2023
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	Oct. 28, 2022	Oct. 27, 2023
7	Loop Antenna	TESEQ	HLA6121	58357	Nov. 01, 2022	Oct. 31, 2023
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Nov. 15, 2022	Nov. 14, 2023
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 28, 2022	Oct. 27, 2023
10	Amplifier (500MHz-40GHz)	全聚达	DLE-161	097	Oct. 28, 2022	Oct. 27, 2023
11	Test Cable	N/A	R-01	N/A	Oct. 28, 2022	Oct. 27, 2023
12	Test Cable	N/A	R-02	N/A	Oct. 28, 2022	Oct. 27, 2023
13	Test Cable	N/A	R-03	N/A	Oct. 28, 2022	Oct. 27, 2023
14	Test Cable	N/A	RF-01	N/A	Oct. 28, 2022	Oct. 27, 2023
15	Test Cable	N/A	RF-02	N/A	Oct. 28, 2022	Oct. 27, 2023
16	Test Cable	N/A	RF-03	N/A	Oct. 28, 2022	Oct. 27, 2023
17	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 21, 2022	Oct. 20, 2023
18	Signal Generator	Agilent	N5182A	N/A	Oct. 21, 2022	Oct. 20, 2023
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Nov. 15, 2022	Nov. 14, 2023
20	Wideband Radio Communication Test	R&S	CMW500	106504	Oct. 28, 2022	Oct. 27, 2023
21	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 21, 2022	Oct. 20, 2023
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	\	\
25	Turntable	MF	MF-7802BS	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 21, 2022	Oct. 20, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 21, 2022	Oct. 20, 2023
3	Test Cable	N/A	C-01	N/A	Oct. 21, 2022	Oct. 20, 2023
4	Test Cable	N/A	C-02	N/A	Oct. 21, 2022	Oct. 20, 2023
5	Test Cable	N/A	C-03	N/A	Oct. 21, 2022	Oct. 20, 2023
6	EMI Test Receiver	R&S	ESCI3	101393	Oct. 28, 2022	Oct. 27, 2023
7	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207 RSS-Gen Section 8.8
Test Method:	ANSI C63.10:2013 and RSS-Gen
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

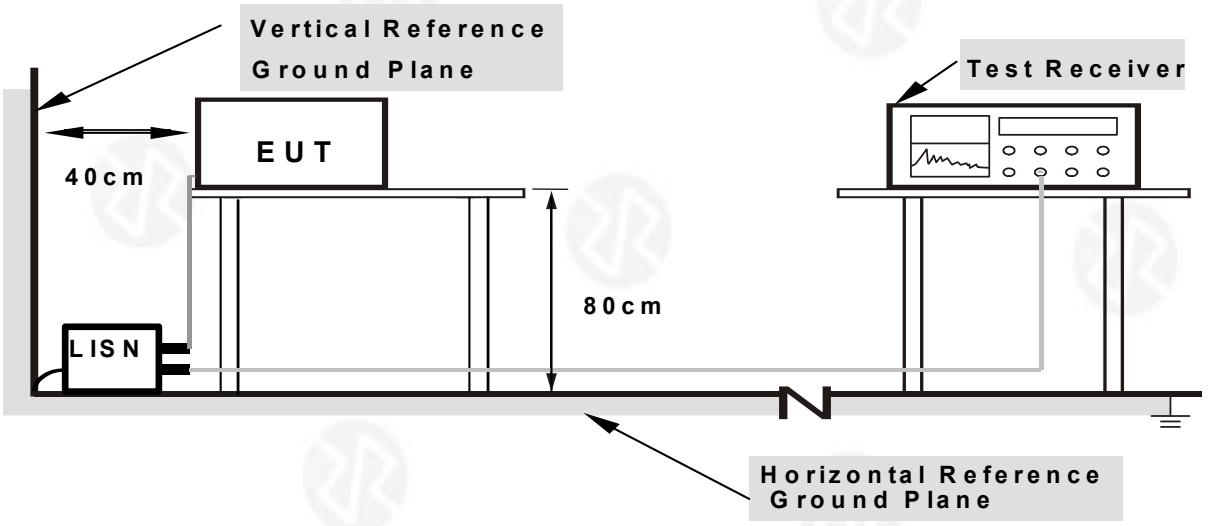
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



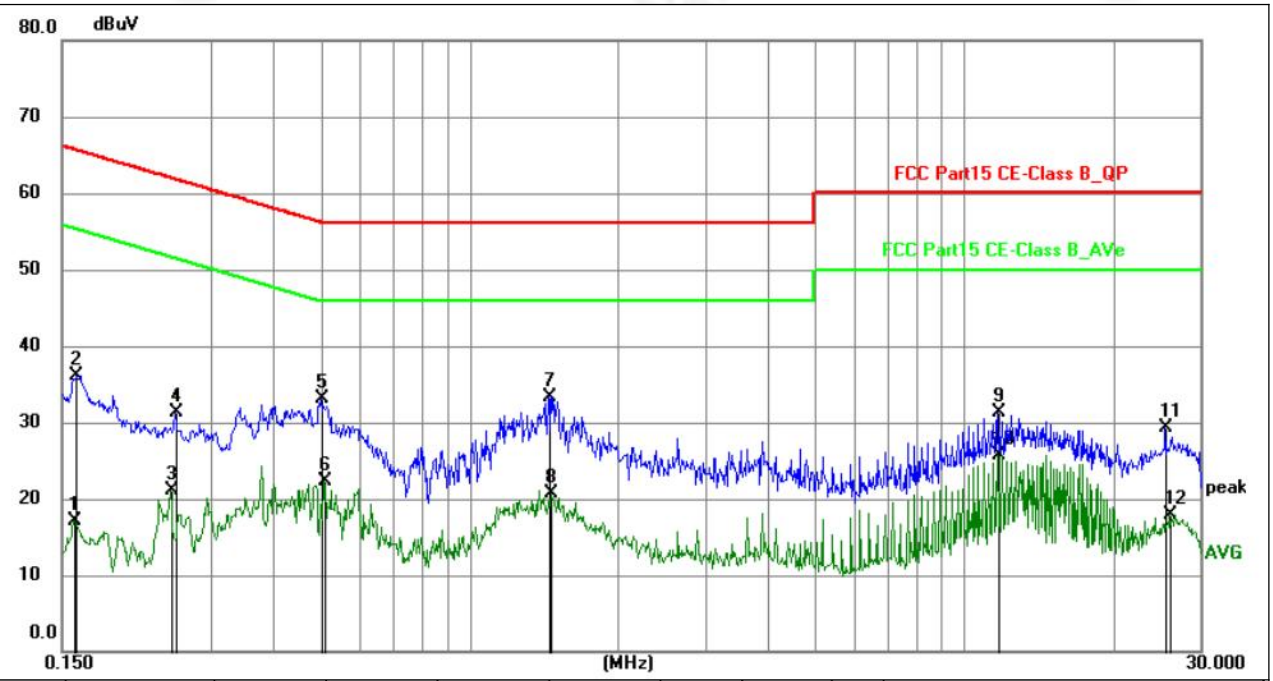
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 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.

4.1.6 TEST RESULTS:

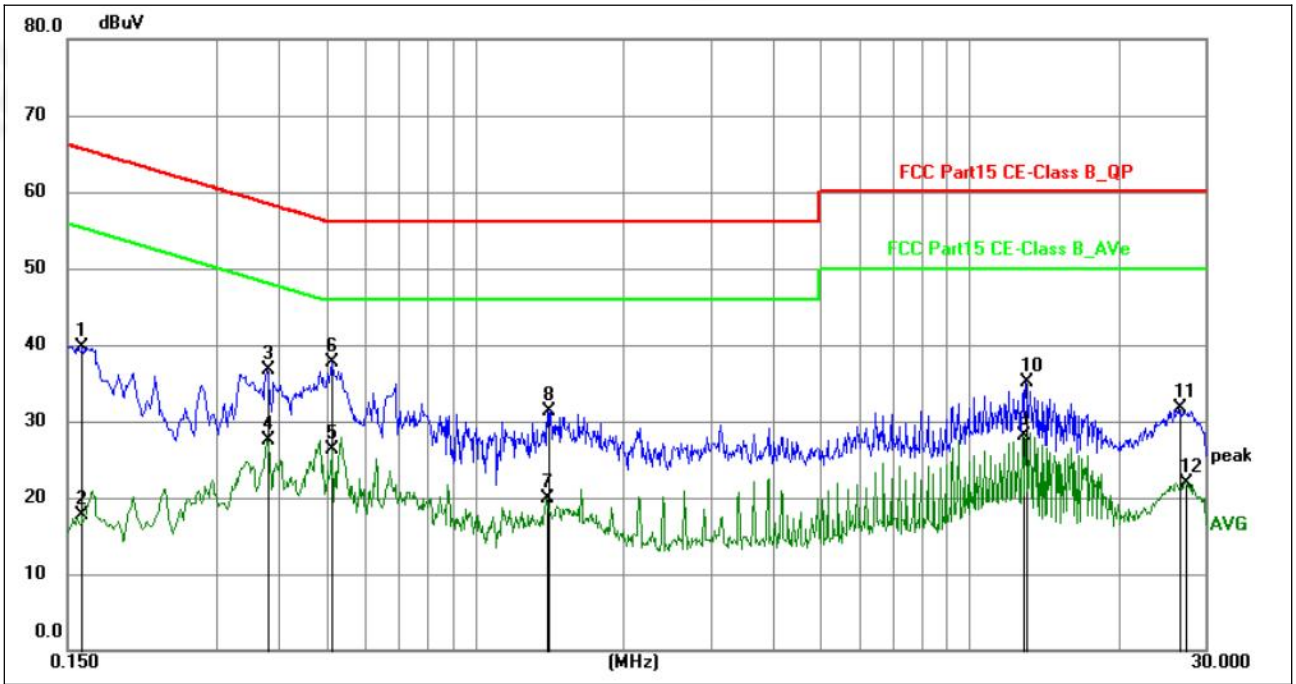
Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	L
Test Voltage ：	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1725	16.11	22.51	38.62	54.84	-16.22	AVG	P	
2	0.1770	31.97	22.42	54.39	64.63	-10.24	QP	P	
3	0.1995	30.11	21.93	52.04	63.63	-11.59	QP	P	
4	0.2040	12.89	21.90	34.79	53.45	-18.66	AVG	P	
5	0.2625	24.41	21.63	46.04	61.35	-15.31	QP	P	
6	0.2625	9.37	21.63	31.00	51.35	-20.35	AVG	P	
7	0.4740	29.09	20.66	49.75	56.44	-6.69	QP	P	
8	0.4785	19.99	20.64	40.63	46.37	-5.74	AVG	P	
9	0.8429	22.69	20.47	43.16	56.00	-12.84	QP	P	
10	0.8700	9.52	20.47	29.99	46.00	-16.01	AVG	P	
11	1.2839	23.25	20.37	43.62	56.00	-12.38	QP	P	
12	1.2839	9.20	20.37	29.57	46.00	-16.43	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	N
Test Voltage ：	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1604	28.60	11.17	39.77	65.44	-25.67	QP	P	
2	0.1604	6.44	11.17	17.61	55.44	-37.83	AVG	P	
3	0.3795	25.48	11.29	36.77	58.29	-21.52	QP	P	
4	0.3795	16.21	11.29	27.50	48.29	-20.79	AVG	P	
5	0.5141	15.02	11.30	26.32	46.00	-19.68	AVG	P	
6	0.5151	26.45	11.30	37.75	56.00	-18.25	QP	P	
7	1.3964	8.57	11.26	19.83	46.00	-26.17	AVG	P	
8	1.4100	20.02	11.26	31.28	56.00	-24.72	QP	P	
9	12.7995	16.67	11.43	28.10	50.00	-21.90	AVG	P	
10	13.0515	23.77	11.43	35.20	60.00	-24.80	QP	P	
11	26.6234	20.10	11.64	31.74	60.00	-28.26	QP	P	
12	27.3704	10.34	11.66	22.00	50.00	-28.00	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209 RSS-247 Section 3.3 & RSS-Gen Section 8.9
Test Method:	ANSI C63.10:2013 & RSS-Gen
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

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

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	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).

4.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. 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 semi-chamber test. 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 0.8m; above 1GHz, the height was 1.5m, 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.
g. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
Note:

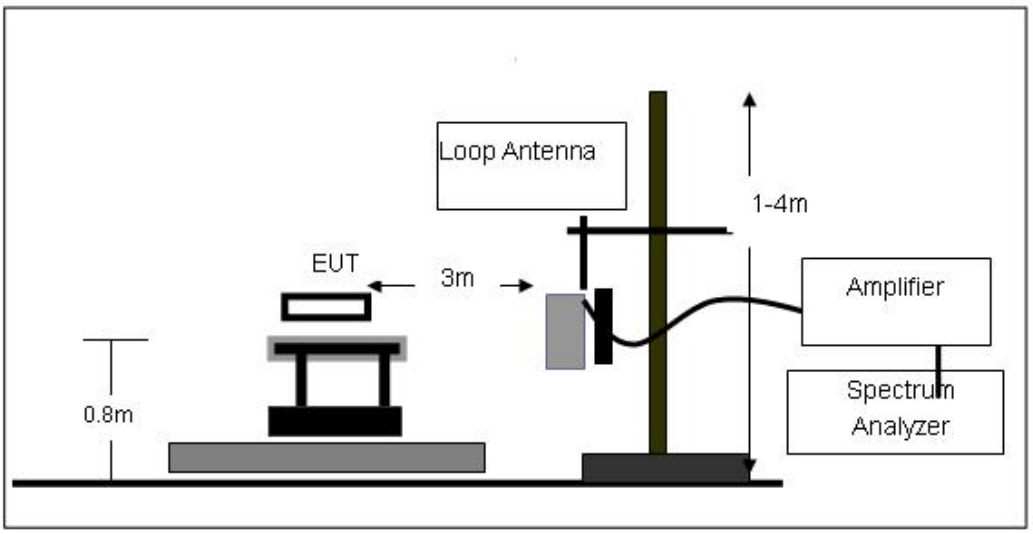
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

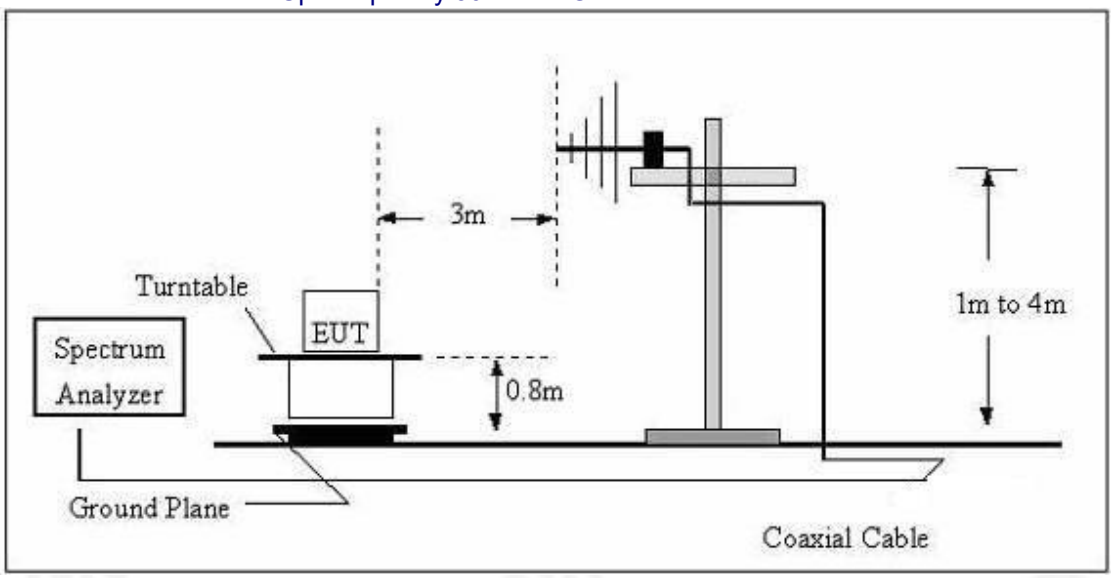
No deviation

4.2.4 TEST SETUP

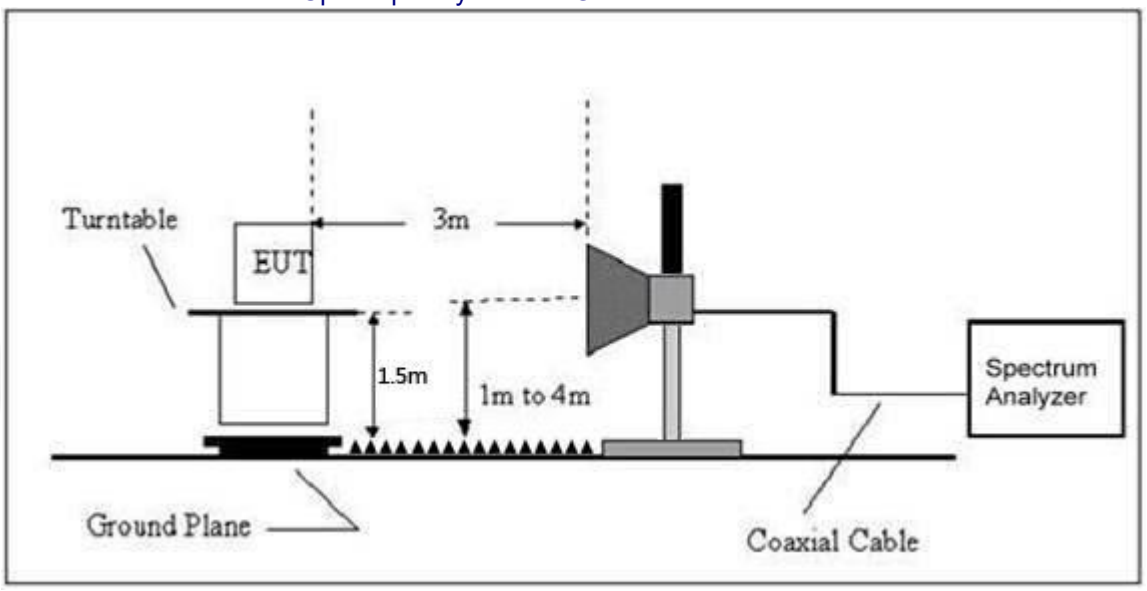
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

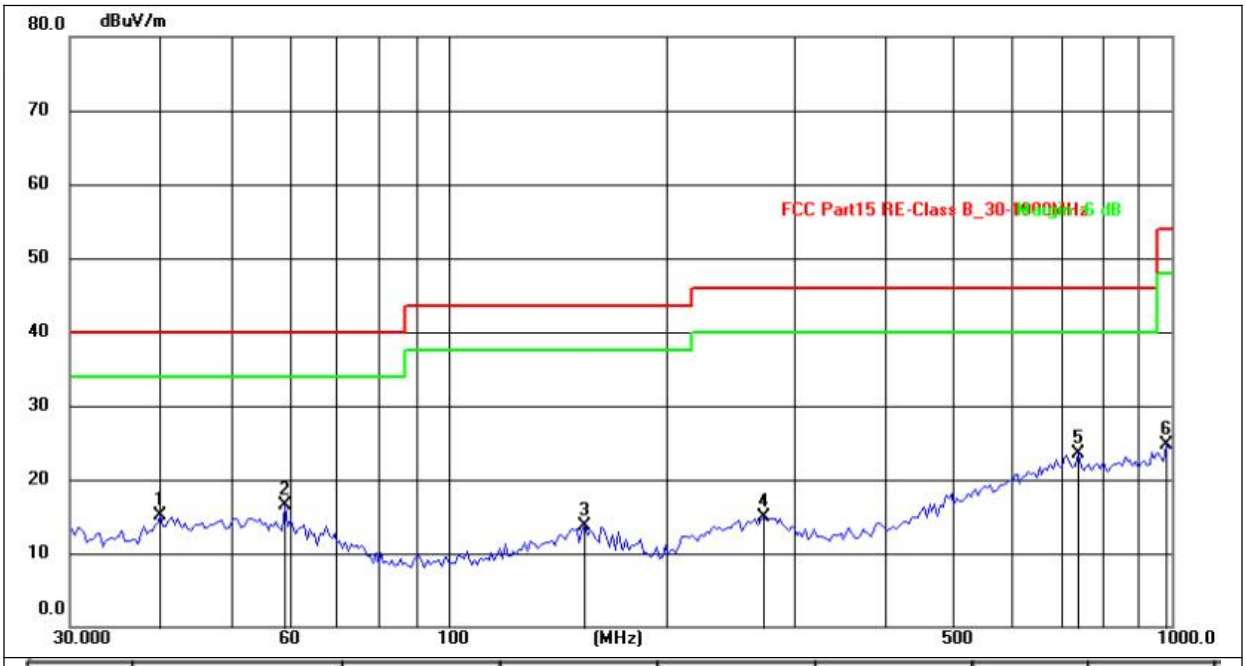
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

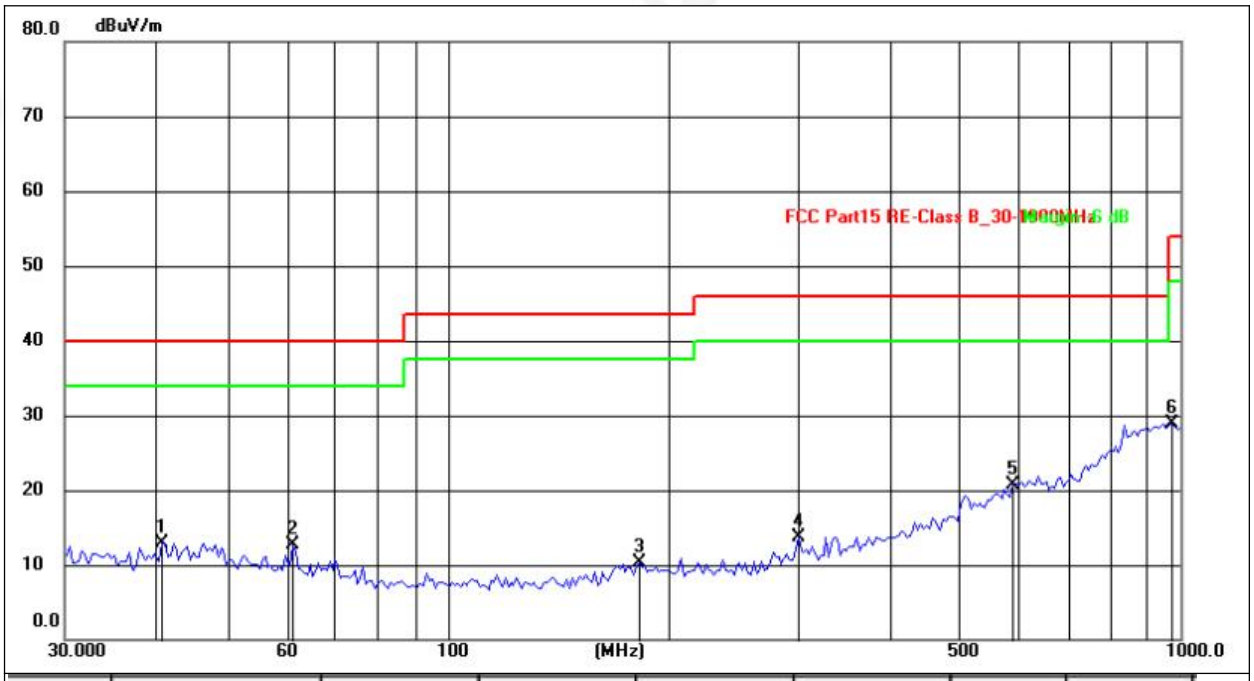
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.0643	29.18	-14.14	15.04	40.00	-24.96	QP
2	59.4405	30.80	-14.22	16.58	40.00	-23.42	QP
3	154.5491	30.19	-16.39	13.80	43.50	-29.70	QP
4	273.2339	29.65	-14.75	14.90	46.00	-31.10	QP
5	742.2586	30.29	-6.81	23.48	46.00	-22.52	QP
6	982.6200	30.01	-5.24	24.77	54.00	-29.23	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.7730	29.86	-16.90	12.96	40.00	-27.04	QP
2	61.5617	31.21	-18.48	12.73	40.00	-27.27	QP
3	182.5592	30.24	-19.95	10.29	43.50	-33.21	QP
4	300.8942	32.06	-18.30	13.76	46.00	-32.24	QP
5	590.9737	28.72	-8.11	20.61	46.00	-25.39	QP
6	974.0434	29.22	-0.35	28.87	54.00	-25.13	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.

1GHz~25GHz

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	54.13	30.55	5.77	24.66	54.01	74.00	-19.99	Pk
V	4804.00	43.06	30.55	5.77	24.66	42.94	54.00	-11.06	AV
V	7206.00	54.62	30.33	6.32	24.55	55.16	74.00	-18.84	Pk
V	7206.00	43.00	30.33	6.32	24.55	43.54	54.00	-10.46	AV
V	9608.00	52.35	30.85	7.45	24.69	53.64	74.00	-20.36	Pk
V	9608.00	43.33	30.85	7.45	24.69	44.62	54.00	-9.38	AV
V	12010.00	50.55	31.02	8.99	25.57	54.09	74.00	-19.91	Pk
V	12010.00	43.25	31.02	8.99	25.57	46.79	54.00	-7.21	AV
H	4804.00	51.20	30.55	5.77	24.66	51.08	74.00	-22.92	Pk
H	4804.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
H	7206.00	53.42	30.33	6.32	24.55	53.96	74.00	-20.04	Pk
H	7206.00	43.65	30.33	6.32	24.55	44.19	54.00	-9.81	AV
H	9608.00	53.85	30.85	7.45	24.69	55.14	74.00	-18.86	Pk
H	9608.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
H	12010.00	50.94	31.02	8.99	25.57	54.48	74.00	-19.52	Pk
H	12010.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2440MHz									
V	4880.00	50.60	30.55	5.77	24.66	50.48	74.00	-23.52	Pk
V	4880.00	43.63	30.55	5.77	24.66	43.51	54.00	-10.49	AV
V	7320.00	53.86	30.33	6.32	24.55	54.40	74.00	-19.60	Pk
V	7320.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9760.00	52.71	30.85	7.45	24.69	54.00	74.00	-20.00	Pk
V	9760.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
V	12200.00	52.11	31.02	8.99	25.57	55.65	74.00	-18.35	Pk
V	12200.00	43.19	31.02	8.99	25.57	46.73	54.00	-7.27	AV
H	4880.00	53.60	30.55	5.77	24.66	53.48	74.00	-20.52	Pk
H	4880.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
H	7320.00	51.71	30.33	6.32	24.55	52.25	74.00	-21.75	Pk
H	7320.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
H	9760.00	52.39	30.85	7.45	24.69	53.68	74.00	-20.32	Pk
H	9760.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
H	12200.00	50.94	31.02	8.99	25.57	54.48	74.00	-19.52	Pk
H	12200.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	54.12	30.55	5.77	24.66	54.00	74.00	-20.00	Pk
V	4960.00	43.01	30.55	5.77	24.66	42.89	54.00	-11.11	AV
V	7440.00	54.85	30.33	6.32	24.55	55.39	74.00	-18.61	Pk
V	7440.00	43.99	30.33	6.32	24.55	44.53	54.00	-9.47	AV
V	9920.00	52.25	30.85	7.45	24.69	53.54	74.00	-20.46	Pk
V	9920.00	43.54	30.85	7.45	24.69	44.83	54.00	-9.17	AV
V	12400.00	50.34	31.02	8.99	25.57	53.88	74.00	-20.12	Pk
V	12400.00	43.55	31.02	8.99	25.57	47.09	54.00	-6.91	AV
H	4960.00	51.42	30.55	5.77	24.66	51.30	74.00	-22.70	Pk
H	4960.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	7440.00	53.80	30.33	6.32	24.55	54.34	74.00	-19.66	Pk
H	7440.00	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV
H	9920.00	54.36	30.85	7.45	24.69	55.65	74.00	-18.35	Pk
H	9920.00	43.40	30.85	7.45	24.69	44.69	54.00	-9.31	AV
H	12400.00	50.70	31.02	8.99	25.57	54.24	74.00	-19.76	Pk
H	12400.00	43.69	31.02	8.99	25.57	47.23	54.00	-6.77	AV

Remark:
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.

5.RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205
RSS-247 Section 3.3 & RSS-Gen Section 8.10</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013 & RSS-Gen</td></tr>
<tr><td>Test Frequency Range:</td><td>All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Average</td><td>1MHz</td><td>3MHz</td><td>Average</td></tr>
</table>
</td></tr>
</table>

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	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).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 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 rota 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

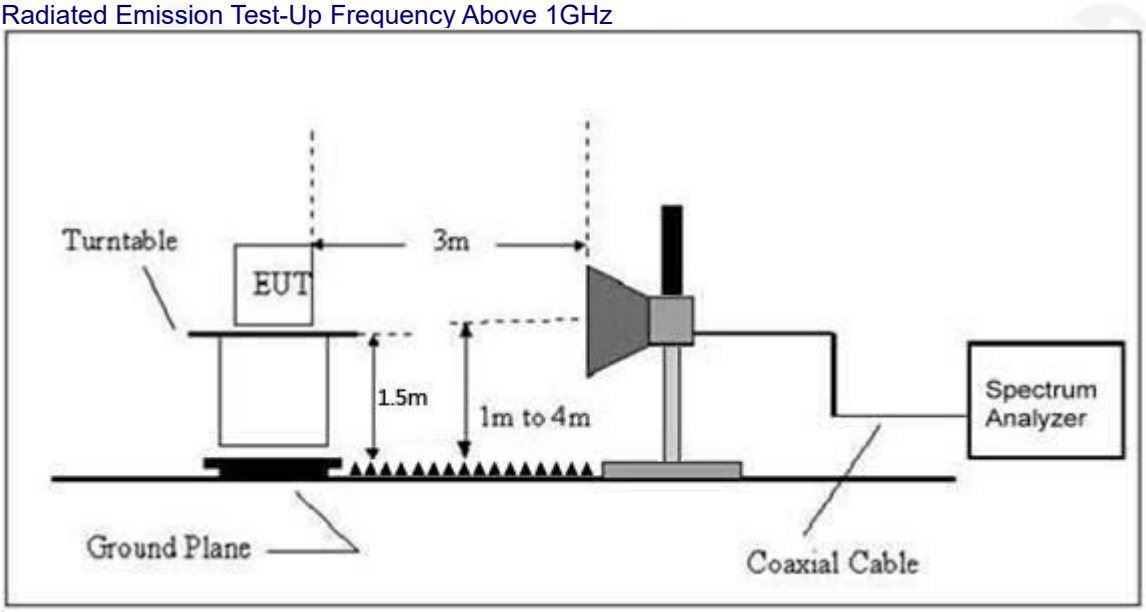
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Detector Type	Result
GFSK	Low Channel: 2402MHz									
	H	2390.00	54.18	30.22	4.85	23.98	52.79	74.00	PK	PASS
	H	2390.00	44.08	30.22	4.85	23.98	42.69	54.00	AV	PASS
	H	2400.00	54.81	30.22	4.85	23.98	53.42	74.00	PK	PASS
	H	2400.00	44.86	30.22	4.85	23.98	43.47	54.00	AV	PASS
	V	2390.00	54.37	30.22	4.85	23.98	52.98	74.00	PK	PASS
	V	2390.00	44.62	30.22	4.85	23.98	43.23	54.00	AV	PASS
	V	2400.00	53.49	30.22	4.85	23.98	52.10	74.00	PK	PASS
	V	2400.00	44.73	30.22	4.85	23.98	43.34	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.82	30.22	4.85	23.98	52.43	74.00	PK	PASS
	H	2483.50	44.88	30.22	4.85	23.98	43.49	54.00	AV	PASS
	H	2500.00	54.67	30.22	4.85	23.98	53.28	74.00	PK	PASS
	H	2500.00	44.31	30.22	4.85	23.98	42.92	54.00	AV	PASS
	V	2483.50	53.93	30.22	4.85	23.98	52.54	74.00	PK	PASS
	V	2483.50	44.10	30.22	4.85	23.98	42.71	54.00	AV	PASS
	V	2500.00	54.64	30.22	4.85	23.98	53.25	74.00	PK	PASS
	V	2500.00	44.05	30.22	4.85	23.98	42.66	54.00	AV	PASS

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

6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e) RSS-247 Section 5.2(b)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02 and RSS-Gen

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

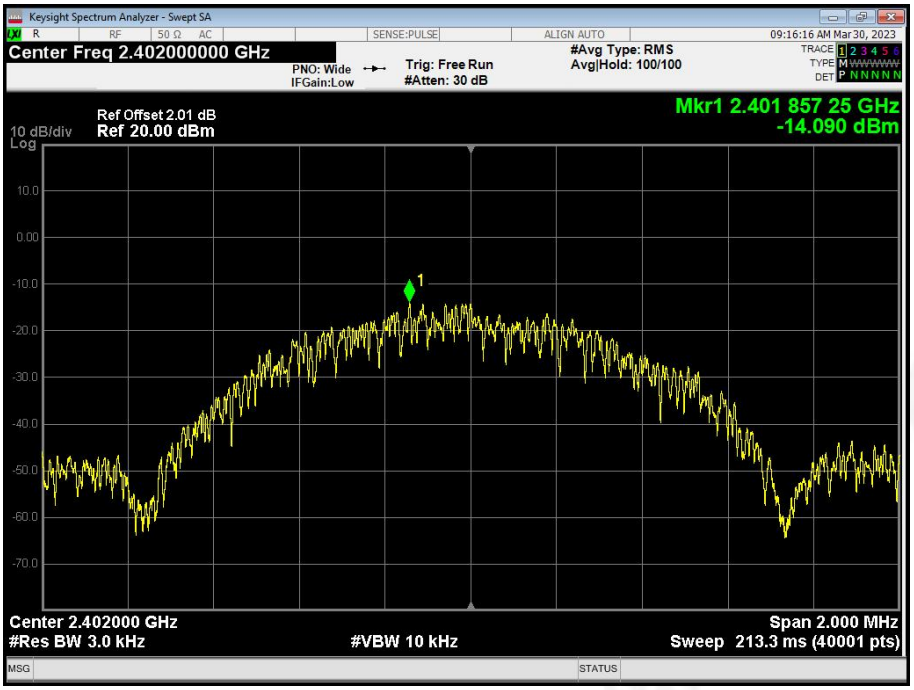
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

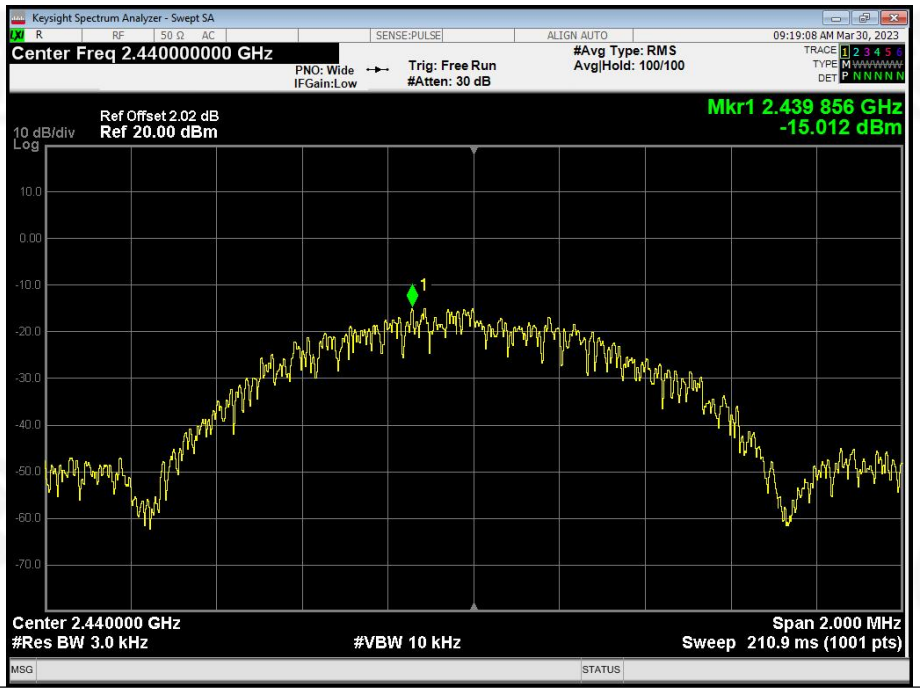
Temperature：	26℃	Relative Humidity：	54%
Test Mode ：	GFSK	Test Voltage ：	DC 5V

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-14.090	8	PASS
2440 MHz	-15.012	8	PASS
2480 MHz	-15.432	8	PASS

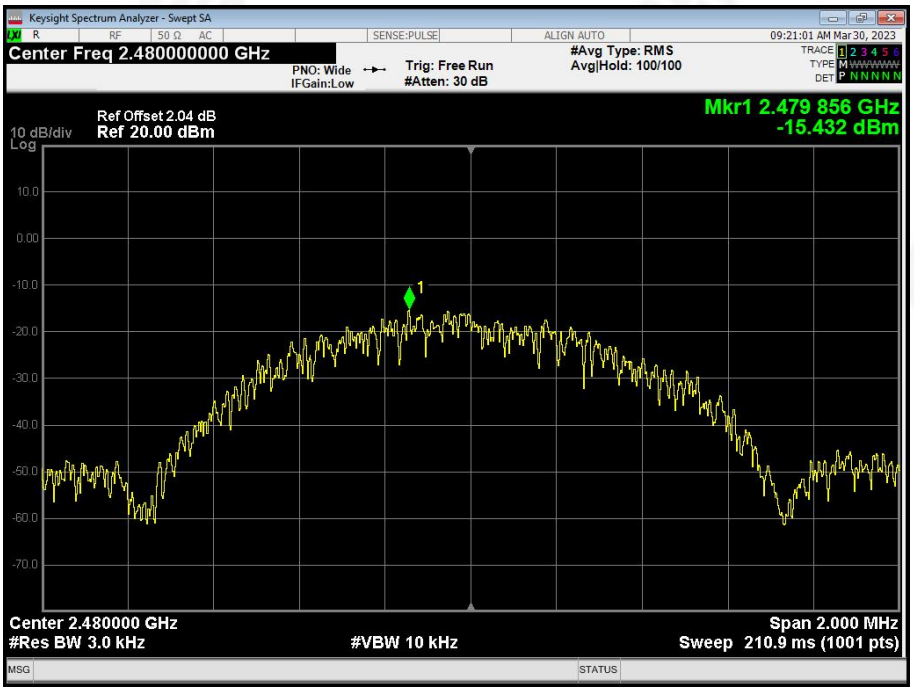
CH01



CH20


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.440000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
09:19:08 AM Mar 30, 2023
Ref Offset 2.02 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.439 856 GHz
-15.012 dBm
Center 2.440000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 2.000 MHz
Sweep 210.9 ms (1001 pts)

CH40


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
09:21:01 AM Mar 30, 2023
Ref Offset 2.04 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.479 856 GHz
-15.432 dBm
Center 2.480000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 2.000 MHz
Sweep 210.9 ms (1001 pts)

7. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2) & RSS-247 Section 5.2(a) RSS-GEN 6.7(Occupied bandwidth)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02 and RSS-Gen

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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.
8.The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 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.

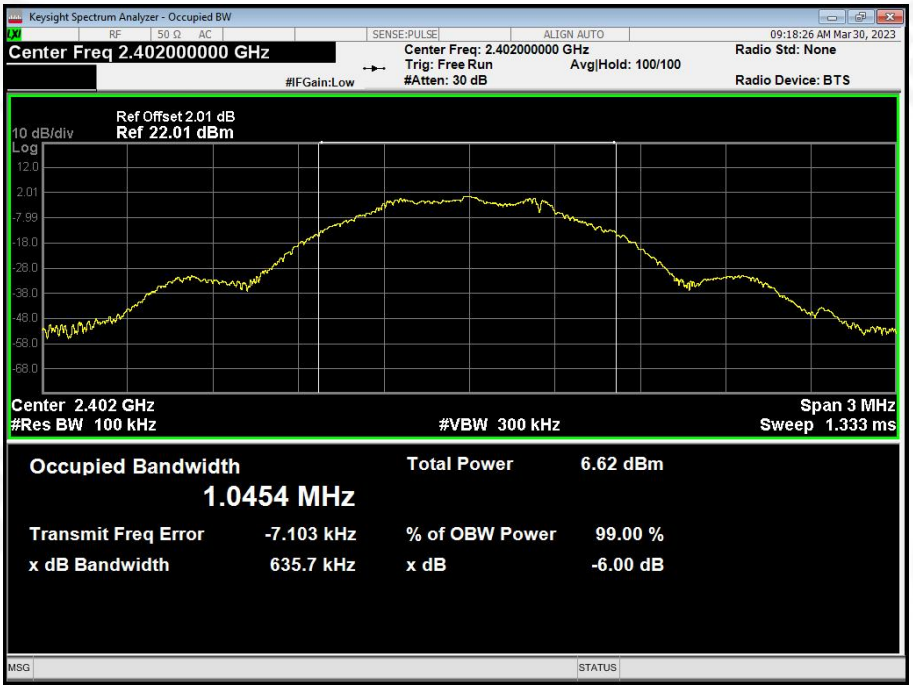
7.6 TEST RESULT

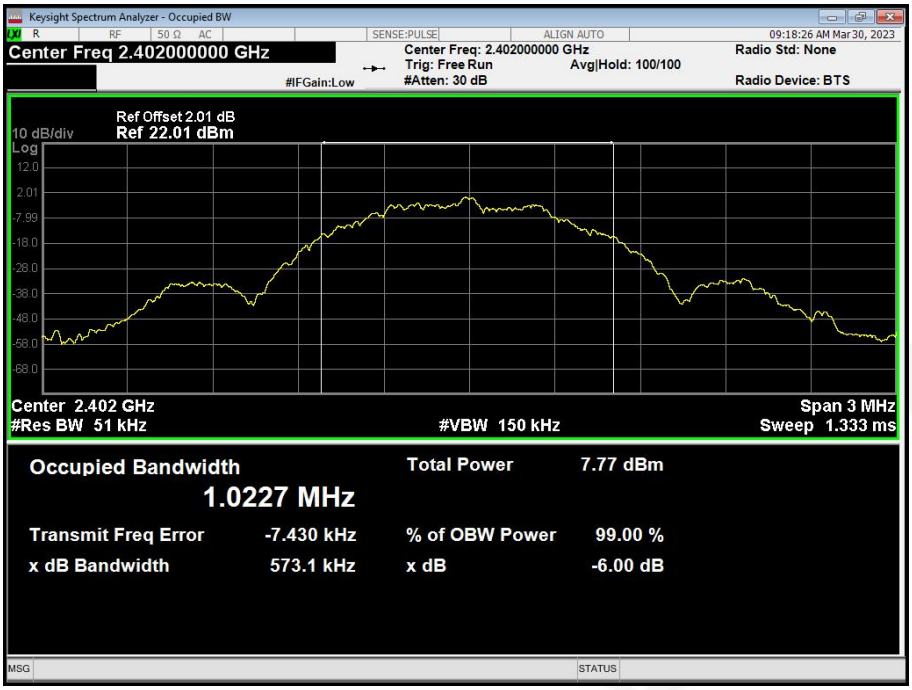
Temperature：	26℃	Relative Humidity：	54%
Test Mode ：	GFSK	Test Voltage ：	DC 3.7V

Test channel	6dB Emission Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.6357	>500	Pass
Middle	0.6459		
Highest	0.6583		

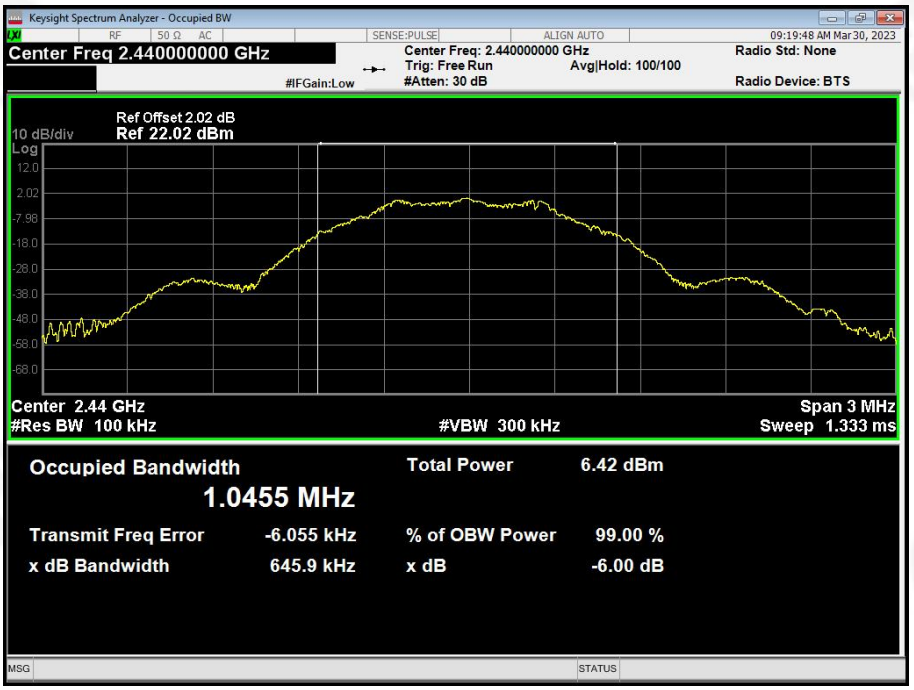
Test channel	99% Bandwidth (MHz)	Result
Lowest	1.0227	Pass
Middle	1.0356	
Highest	1.0320	

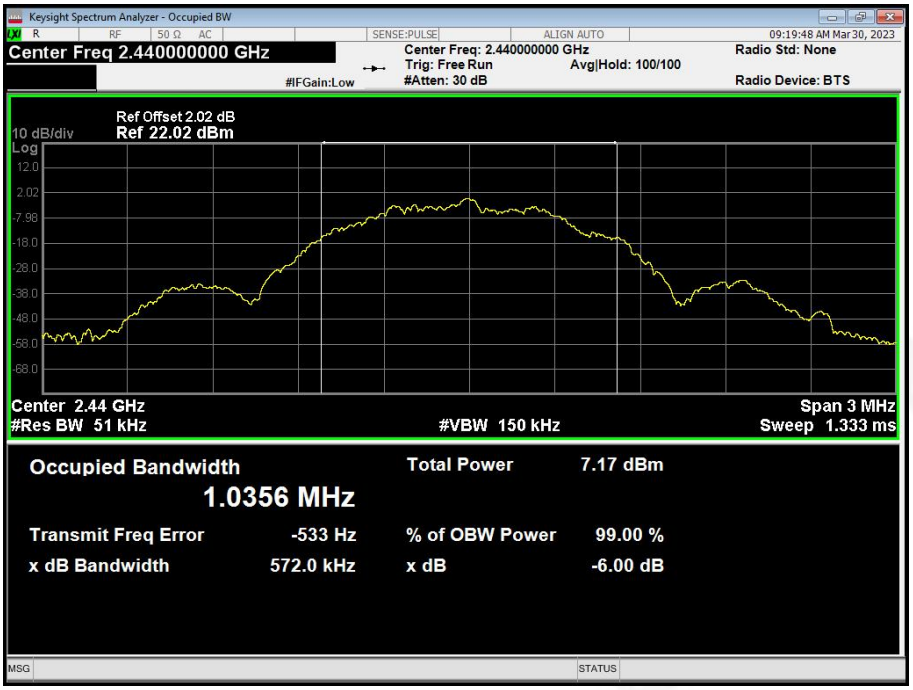
CH 01


Keysight Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:PULSE
ALIGN AUTO
09:18:26 AM Mar 30, 2023
Center Freq 2.402000000 GHz
Center Freq: 2.402000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 2.01 dB
10 dB/div
Ref 22.01 dBm
Log
12.0
2.01
-7.99
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.402 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0454 MHz
Total Power 6.62 dBm
Transmit Freq Error -7.103 kHz
% of OBW Power 99.00 %
x dB Bandwidth 635.7 kHz
x dB -6.00 dB
MSG
STATUS

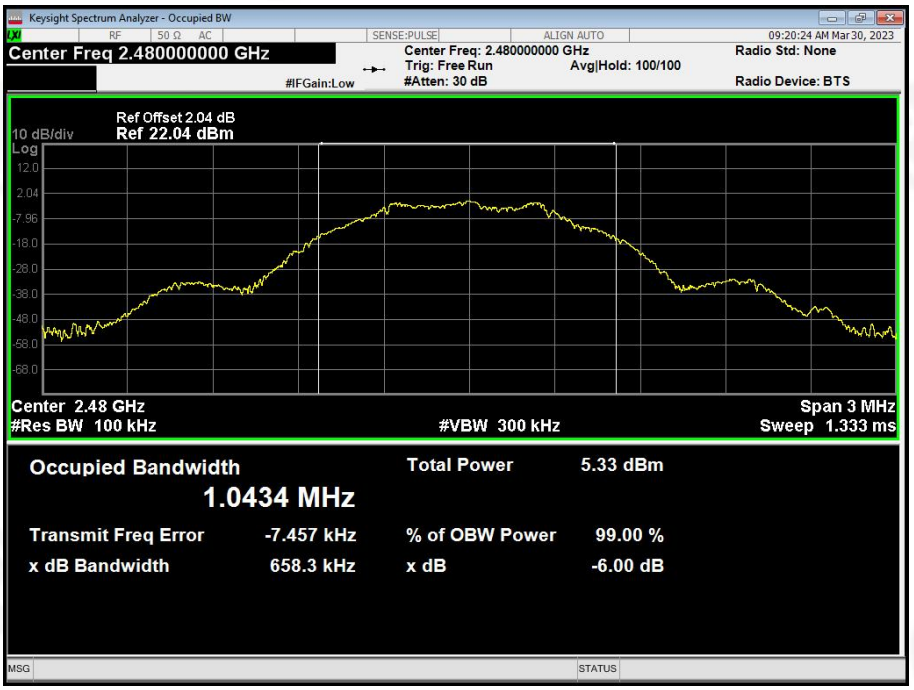

Keysight Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:PULSE
ALIGN AUTO
09:18:26 AM Mar 30, 2023
Center Freq 2.402000000 GHz
Center Freq: 2.402000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 2.01 dB
10 dB/div
Ref 22.01 dBm
Log
12.0
2.01
-7.99
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.402 GHz
#Res BW 51 kHz
#VBW 150 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0227 MHz
Total Power 7.77 dBm
Transmit Freq Error -7.430 kHz
% of OBW Power 99.00 %
x dB Bandwidth 573.1 kHz
x dB -6.00 dB
MSG
STATUS

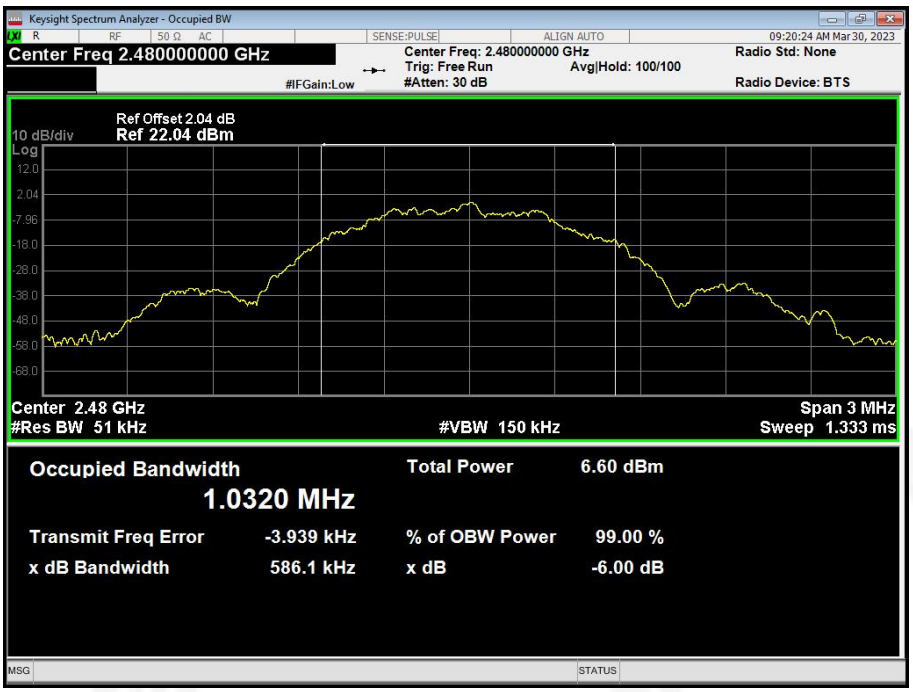
CH20


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.440000000 GHz
Center Freq: 2.440000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
09:19:48 AM Mar 30, 2023
Ref Offset 2.02 dB
10 dB/div
Ref 22.02 dBm
Log
12.0
2.02
-7.98
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.44 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0455 MHz
Total Power 6.42 dBm
Transmit Freq Error -6.055 kHz
% of OBW Power 99.00 %
x dB Bandwidth 645.9 kHz
x dB -6.00 dB
MSG
STATUS


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.440000000 GHz
Center Freq: 2.440000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
09:19:48 AM Mar 30, 2023
Ref Offset 2.02 dB
10 dB/div
Ref 22.02 dBm
Log
12.0
2.02
-7.98
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.44 GHz
#Res BW 51 kHz
#VBW 150 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0356 MHz
Total Power 7.17 dBm
Transmit Freq Error -533 Hz
% of OBW Power 99.00 %
x dB Bandwidth 572.0 kHz
x dB -6.00 dB
MSG
STATUS

CH40


Keysight Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:PULSE
ALIGN AUTO
09:20:24 AM Mar 30, 2023
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 2.04 dB
10 dB/div
Ref 22.04 dBm
Log
12.0
2.04
-7.96
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0434 MHz
Total Power 5.33 dBm
Transmit Freq Error -7.457 kHz
% of OBW Power 99.00 %
x dB Bandwidth 658.3 kHz
x dB -6.00 dB
MSG
STATUS


Keysight Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:PULSE
ALIGN AUTO
09:20:24 AM Mar 30, 2023
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Ref Offset 2.04 dB
10 dB/div
Ref 22.04 dBm
Log
12.0
2.04
-7.96
-18.0
-28.0
-38.0
-48.0
-58.0
-68.0
Center 2.48 GHz
#Res BW 51 kHz
#VBW 150 kHz
Span 3 MHz
Sweep 1.333 ms
Occupied Bandwidth
1.0320 MHz
Total Power 6.60 dBm
Transmit Freq Error -3.939 kHz
% of OBW Power 99.00 %
x dB Bandwidth 586.1 kHz
x dB -6.00 dB
MSG
STATUS

8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3) RSS-247 Section 5.4(d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02 and RSS-Gen

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

RSS-247 Section 5.4(d)				
Section	Test Item	Limit	Frequency Range (MHz)	Result
RSS-247 Section 5.4(d)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

RSS-247 Section 5.4(d)				
Section	Test Item	Limit	Frequency Range (MHz)	Result
RSS-247 Section 5.4(d)	EIRP Power	4 watt or 36.02dBm	2400-2483.5	PASS

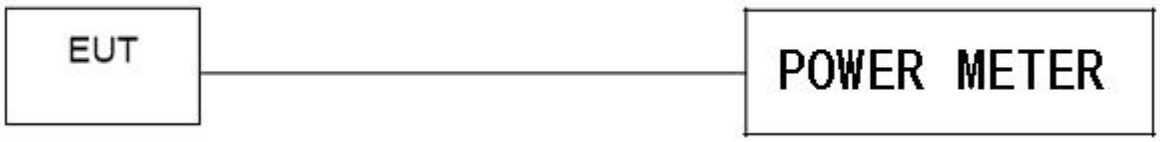
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 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.

8.6 TEST RESULT

Temperature：	26℃	Relative Humidity：	54%
Test Mode ：	GFSK	Test Voltage ：	DC 5V

Mode	Test channel	Peak Output Power (dBm)	EIRP (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
GFSK	Lowest	-0.98	1.61	30.00	30.00	Pass
	Middle	-1.433	1.16			
	Highest	-2.018	0.57			

9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d) RSS-247 Section 5.5
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02 & RSS-Gen

9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

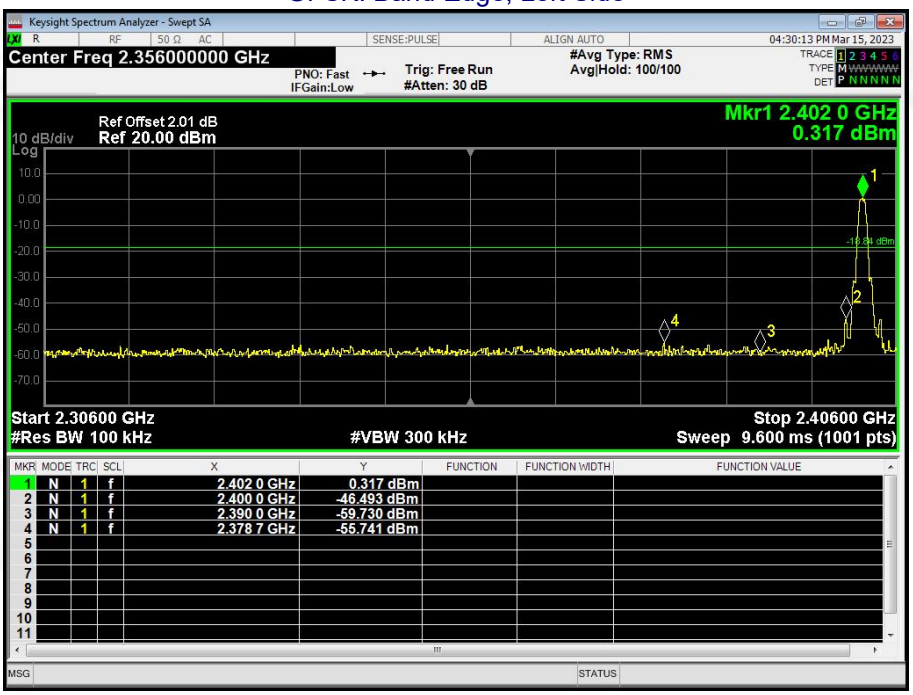
9.4 TEST SETUP

9.5 EUT OPERATION CONDITIONS

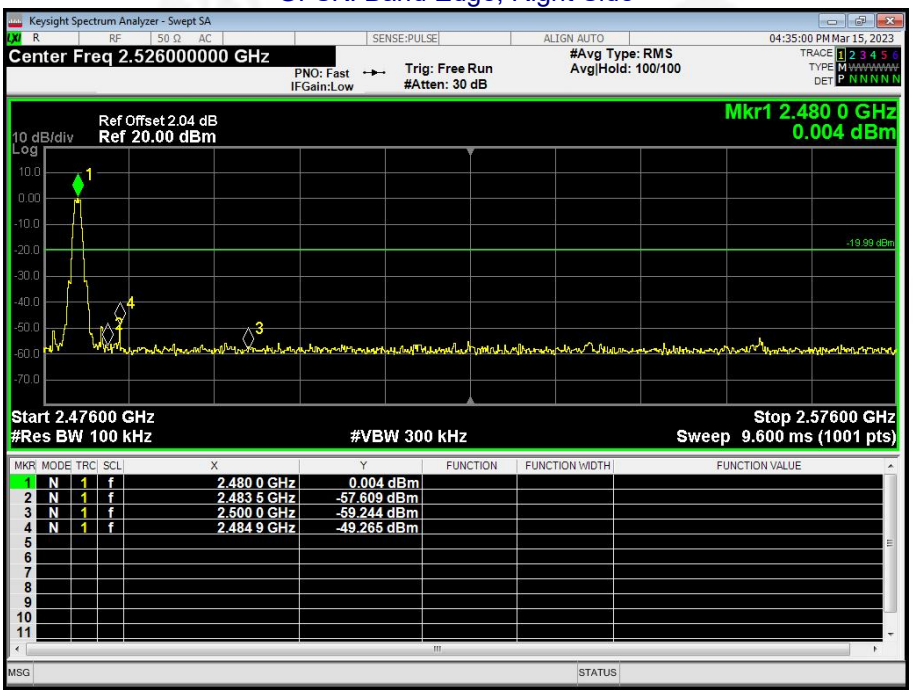
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

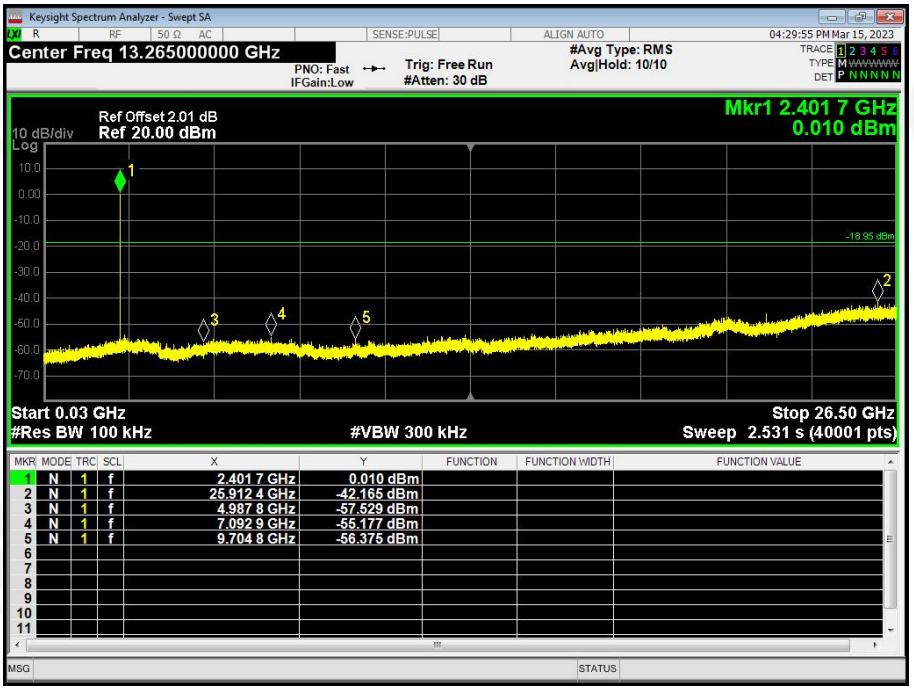
GFSK: Band Edge, Left Side



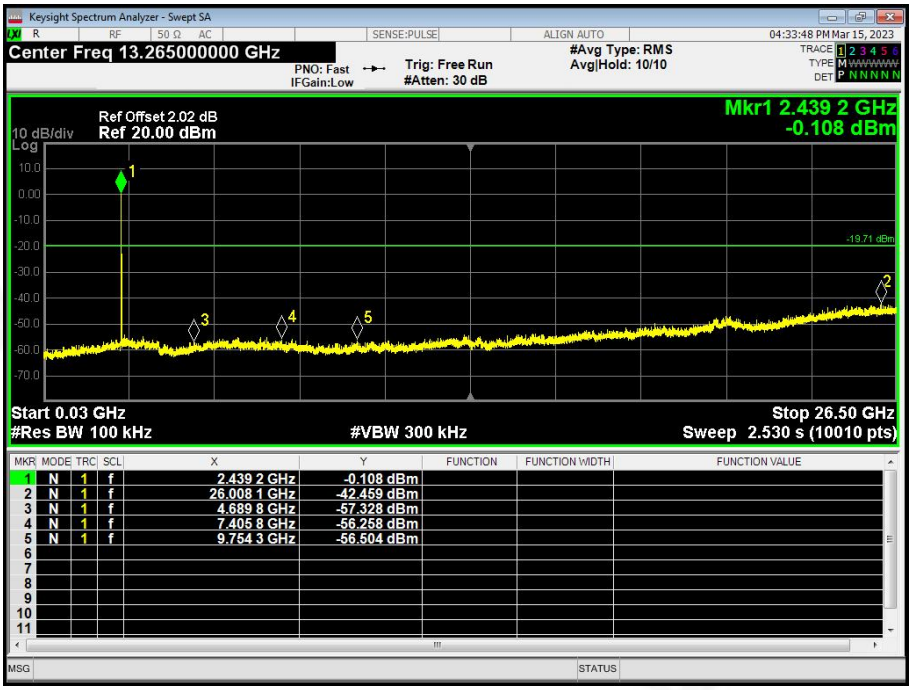
GFSK: Band Edge, Right Side



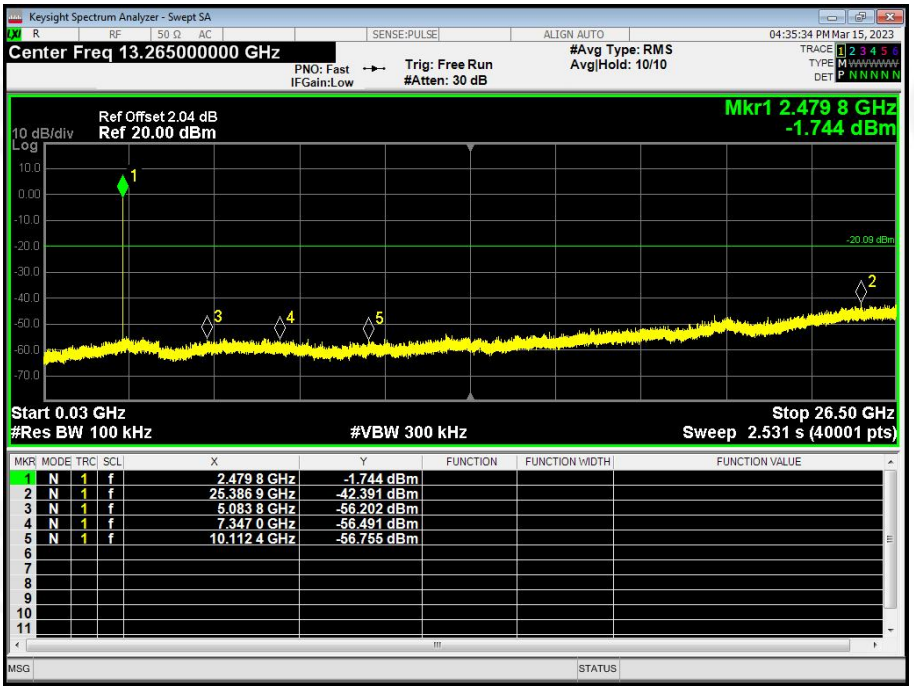
Lowest channel



Middle channel



Highest channel



10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c) RSS-Gen Section 6.8
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. A transmitter can only be sold or operated with antennas with which it was approved. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power	
EUT Antenna:	
The antenna is PCB Antenna, the best case gain of the antennas is 2.59dBi, reference to the appendix II for details	

11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ END OF REPORT ※※※※※