



TEST REPORT

Report Number..... : **ZKT-2607130745E-1**

Date of Test..... : Jul. 22, 2026 to Aug. 04, 2026

Date of issue..... : Aug. 04, 2026

Total number of pages..... : 35

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 : **VLG Technology Co., Ltd**

Address : Unit 605,6/F Building 8, Hong Kong-Shenzhen Innovation and Technology Park, Lok Ma Chau Loop,Hong Kong.

Manufacturer's name : **Shenzhen VLG Wireless Technology Co., Ltd.,HuiYang Branch**

Address : layer2-4, Building A and layer3,buidingB, west side of Huiao avenue, Sanhe Street, Huiyang district, Huizhou, Guangdong province, China.

Test specification:

Standard..... : Article 2 paragraph 1 of item 19
MIC Notice No.88 Annex 1
MIC Notice No.88 Annex 43

Test procedure..... : /

Non-Standard test method : N/A

Test Report Form No..... : TRF-EL-152_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 Telec requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : **AI Fluffy Pals Smart Interactive Animal Toy**

Trademark : N/A

Model/Type reference..... : V100-016-A-01
V100-017-A-01

Ratings..... : Input: 5V---2A
Battery: DC 3.7V, 1000mAh, 3.7Wh



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).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-2607130745E-1	Rev.01	Initial issue of report	Aug. 04, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical Standards:

NO.	Test Item	Test Requirement	Result
1	RF Shielding Method	Item 19 of Article 49-20	Pass
2	Frequency Tolerance	Item 19 of Article 5	Pass
3	Antenna Power & E.I.R.P.	Item 19 of Article 49-20	Pass
4	Antenna Power Tolerance	Item 19 of Article 14	Pass
5	99% Occupied Bandwidth	Item 19 of Article 6	Pass
6	TX Spurious Emissions Intensity	Item 19 of Article 7	Pass
7	Limit of Secondary Radiated Emissions	Item 19 of Article 24.2	Pass
8	Interference Suppression	Item 19 of Article 9-4.5	Pass
9	Transmission Antenna Gain	Item 19 of Article 49-20	Pass
10	Transmission Radiation Angle Width (3dB Beam width)	Item 19 of Article 49-20	N/A ¹
11	Carrier Sensing Function	Item 19 of Article 49-20	N/A ²

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) N/A¹ is does not apply for transmitting devices which E.I.R.P. is less than 12.14dBm.
- (3) N/A² is does not apply for transmitting devices with GFSK modulation and the occupied bandwidth is less than 26 MHz.



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

China Registered No.: CNAS L11527

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF Power Conducted	$\pm 0.16\text{dB}$
4	Spurious Emissions Conducted	$\pm 0.21\text{dB}$
5	All Emissions Radiated (<1G)	$\pm 4.68\text{dB}$
6	All Emissions Radiated (>1G)	$\pm 5.0\text{dB}$
7	Frequency Error ppm	$\pm 0.5\text{ppm}$
8	RF Occupied Bandwidth	$U=1.8\text{MHz}$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	AI Fluffy Pals Smart Interactive Animal Toy
Trademark:	N/A
Model No.:	V100-016-A-01
Series Models:	V100-017-A-01
Model Difference:	All the model are the same circuit and RF module,Only the model name and external cartoon character are different.
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40 Channels
Channel Separation:	2MHz
Modulation Technology:	GFSK
Rated Power:	1.9mW
Antenna Type:	PCB antenna
Antenna Gain:	3.25dBi
Power Supply:	Input: 5V---2A
Battery Capacity:	DC 3.7V, 1000mAh, 3.7Wh



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT's all information provided by client.

3.

Channel List							
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

4. Final test channel as follow:

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 (MHz)	20	2440 (MHz)	40	2480 (MHz)



3.2 DESCRIPTION OF TEST MODES

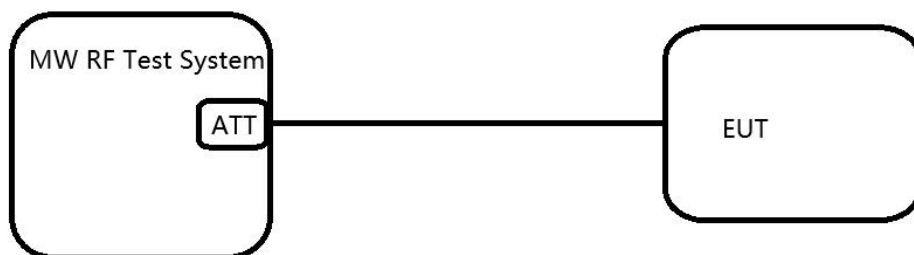
Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.		
The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels. test software ADB used for controlling the EUT. During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of GFSK.		
	Test Software: ADB	
	Test Mode	Power Level
	LE - GFSK	Default

3.3 TEST CONDITIONS

Supply Voltage				
	Input Voltage (Vdc)		Voltage at the input of the RF Circuit (Vdc)	Tolerance (%)
Normal	3.7	Normal	3.3	
+10%	4.07	+1%	3.3	0
-10%	3.33	-1%	3.3	0
Others				
Temperature (°C)		25		
Relative humidity		51%.		
ATM Pressure:		1019 mbar		
Note: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%; So the following test items are conducted in the normal voltage.				



3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AI Fluffy Pals Smart Interactive Animal Toy	N/A	V100-016-A-01	N/A	EUT

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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until	Cal.infor Method
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026	C
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026	C
3	Test Cable	N/A	RF-01	N/A	N/A	May. 25, 2026	May. 24, 2027	C
4	Test Cable	N/A	RF-02	N/A	N/A	May. 25, 2026	May. 24, 2027	C
5	Test Cable	N/A	RF-03	N/A	N/A	May. 25, 2026	May. 24, 2027	C
6	ESG Signal Generator	Agilent	E4421B	GB40051203	B.03.84	Sep. 19, 2025	Sep. 18, 2026	C
7	Signal Generator	Agilent	N5182A	MY47420215	A.01.87	Sep. 20, 2025	Sep. 19, 2026	C
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Sep. 25, 2025	Sep. 24, 2026	C
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026	C
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026	C
11	MWRF Power Meter Test system	MW	MW100-RF CB	10371	N/A	Sep. 19, 2025	Sep. 18, 2026	C
12	MWRF Power Sensor	MW	MW100-PS B	10371	N/A	Sep. 19, 2025	Sep. 18, 2026	C
13	D.C. Power Supply	LongWei	TPR-6405 D	GQ7516	N/A	Sep. 19, 2025	Sep. 18, 2026	C
14	Attenuators	XINQY	XQY-SMAJ KS-12-2W	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026	C
15	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\	\

Note:

Calibration Method:

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph.

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).

The calibration corresponds to c described above.

All the equipments for Shenzhen Branch of Ti Testing and Certification Group Co., Ltd.



4. RF SHIELDING METHOD

Enclosure:

We apply the product for Japan RF certification. RF line use SMD components and Modulation components are cover with iron shield. This shield is not easily removed, the equipment can be damaged if the user tries to open it, Please refer to following for photo for details.





5. TEST RESULT FOR BLUETOOTH

5.1 FREQUENCY TOLERANCE

5.1.1 LIMIT

Item	Limits
Frequency Error	±50ppm

5.1.2 MEASURING INSTRUMENTS AND SETTING

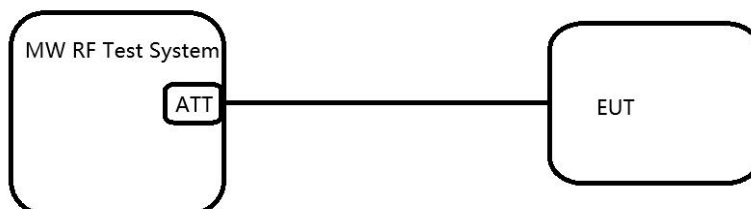
The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10kHz/10kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.3 TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.
- (5) In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

5.1.4 TEST SETUP LAYOUT



5.1.5 EUT OPERATION DURING TEST

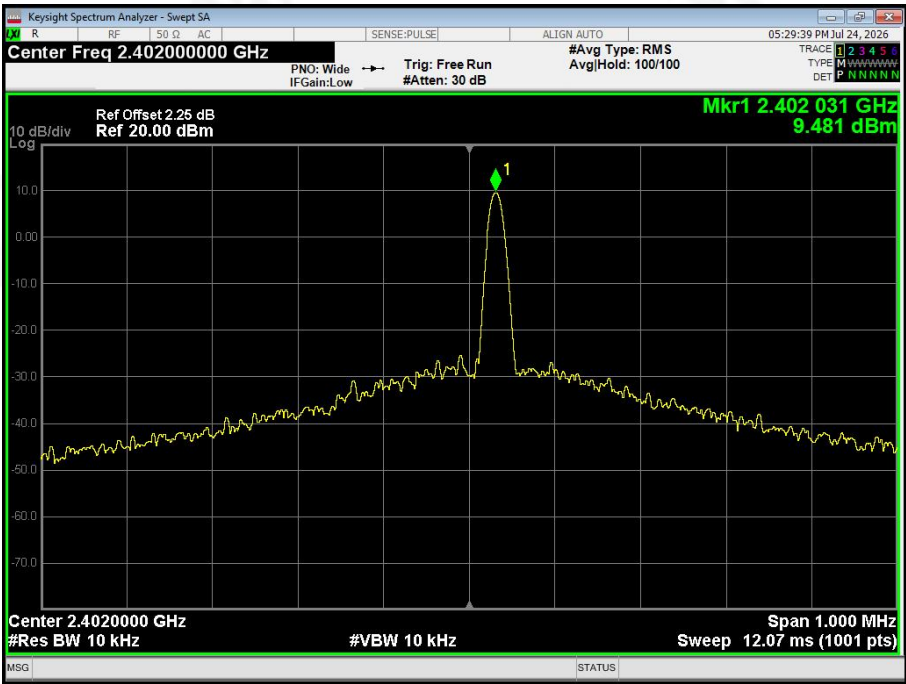
The EUT was placed on the test table and programmed in un-modulation function.



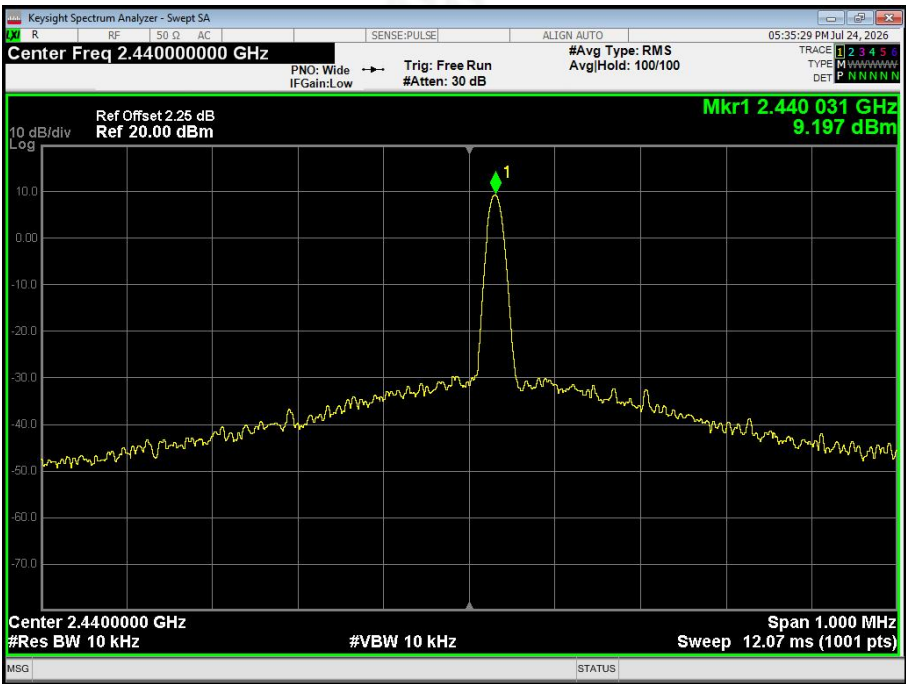
5.1.6 TEST RESULT

Test mode	Test voltage	Frequency (MHz)	Read (MHz)	Tolerance (ppm)	Limit (ppm)	Result
Un-modulation mode	Normal	2402	2402.031	12.91	±50.00	Pass
		2440	2440.031	12.70		
		2480	2480.031	12.50		

2402MHz

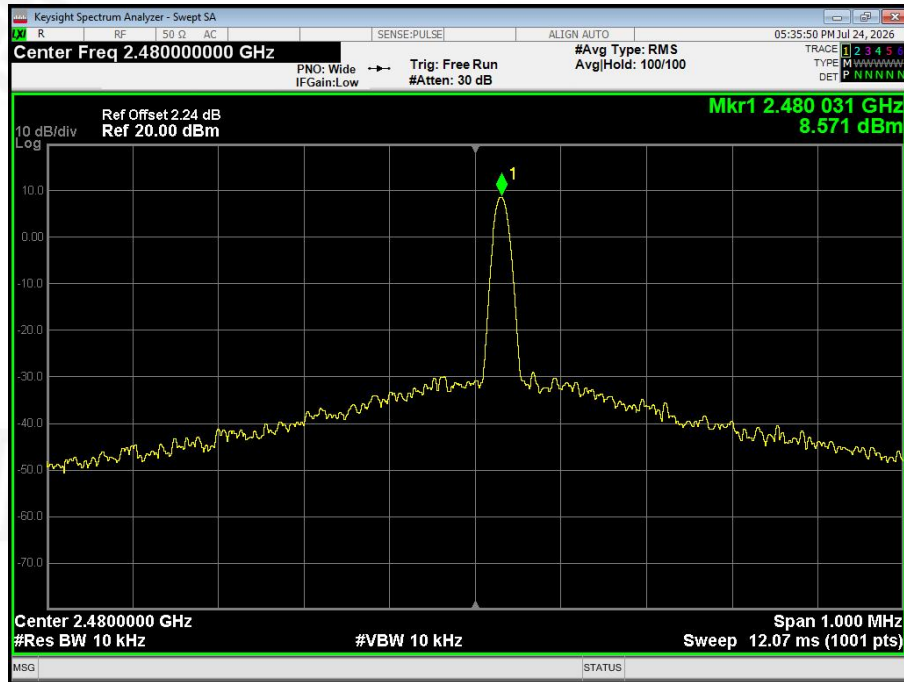


2440MHz





2480MHz





5.2 ANTENNA POWER & E.I.R.P. & ANTENNA POWER TOLERANCE

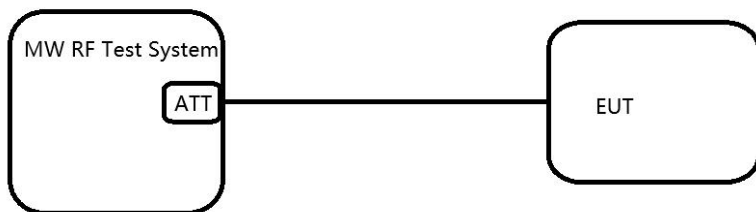
5.2.1 LIMIT

Item	Limits
Antenna Power	$\leq 10\text{mW}$
E.I.R.P.	$\leq 12.14\text{dBm}$
Antenna Power Tolerance	+20% (No lower limit)

5.2.2 TEST PROCEDURES

1. A power meter is connected on the EUT;
2. Record the reading on the power meter as antenna output power;
3. Antenna Power Error is definition that actual measure antenna power tolerance;
below + 20% power that base on manufacturer declare the conducted power.

5.2.3 TEST SETUP LAYOUT



5.2.4 TEST DEVIATION

There is no deviation with the original Standard.



5.2.5 TEST RESULT

Operation Mode:	Normal Voltage - GFSK						
Test Frequency (MHz)	Antenna Power (dBm)	Antenna Power (mW)	Rated Power (mW)	Antenna Power Limit (mW)	Tolerance (%)	Tolerance Limit (%)	Result
2402	2.755	1.89	1.90	≤10	-0.53	+ 20	Pass
2440	2.611	1.82	1.90	≤10	-4.21	+ 20	Pass
2480	2.170	1.65	1.90	≤10	-13.16	+ 20	Pass
Tolerance Limit: + 20% (No lower limit)							

Operation Mode:	Normal Voltage - GFSK				
Test Frequency (MHz)	Antenna Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	Limits (dBm)	Result
2402	2.755	3.25	6.005	≤12.14	Pass
2440	2.611	3.25	5.861	≤12.14	Pass
2480	1.970	3.25	5.220	≤12.14	Pass
Note: EIRP = Antenna Power + Antenna Gain.					



5.3 99% OCCUPIED BANDWIDTH

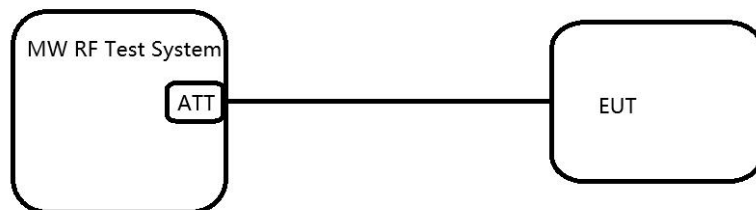
5.3.1 LIMIT

Item	Limits
Occupied Band Width	$\leq 26\text{MHz}$

5.3.2 TEST PROCEDURES

1. Setting of SA is following as: RB: 300kHz / VB:300kHz; SPAN: 3MHz; AT: Auto;
Ref: Auto; Sweep time: Auto; Sweep Mode: Continuous sweep; Detect mode: Positive peak;
Trace mode: Max hold.
2. EUT have transmitted the maximum modulation signal and fixed channelize
(For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz
(For DSSS or OFDM Device) or 83.5MHz (For FHSS Device).

5.3.3 TEST SETUP LAYOUT



5.3.4 TEST DEVIATION

There is no deviation with the original Standard.

5.3.5 EUT OPERATION DURING TEST

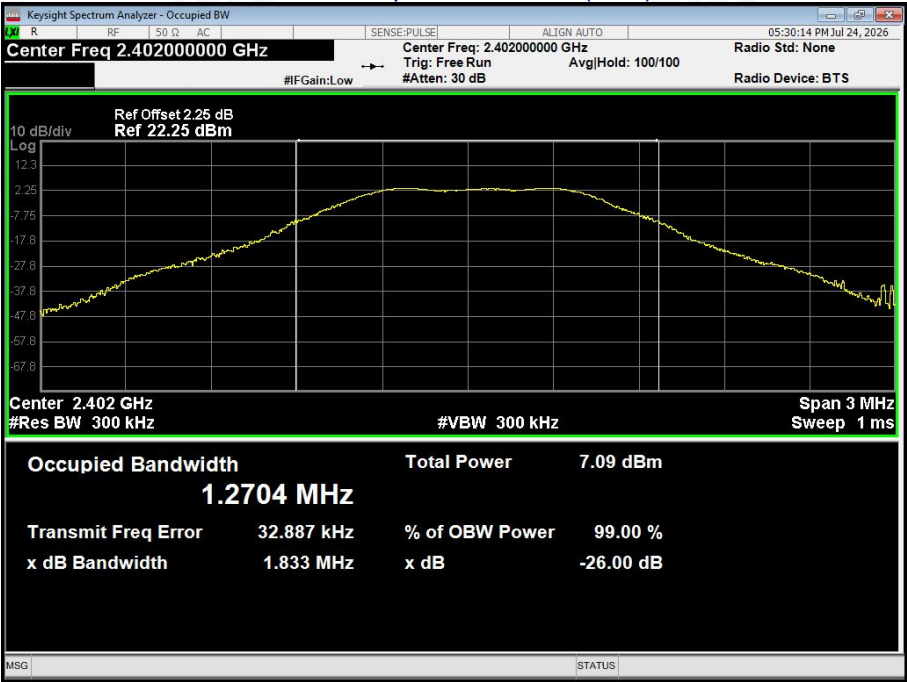
The EUT was programmed to be in continuously transmitting mode.



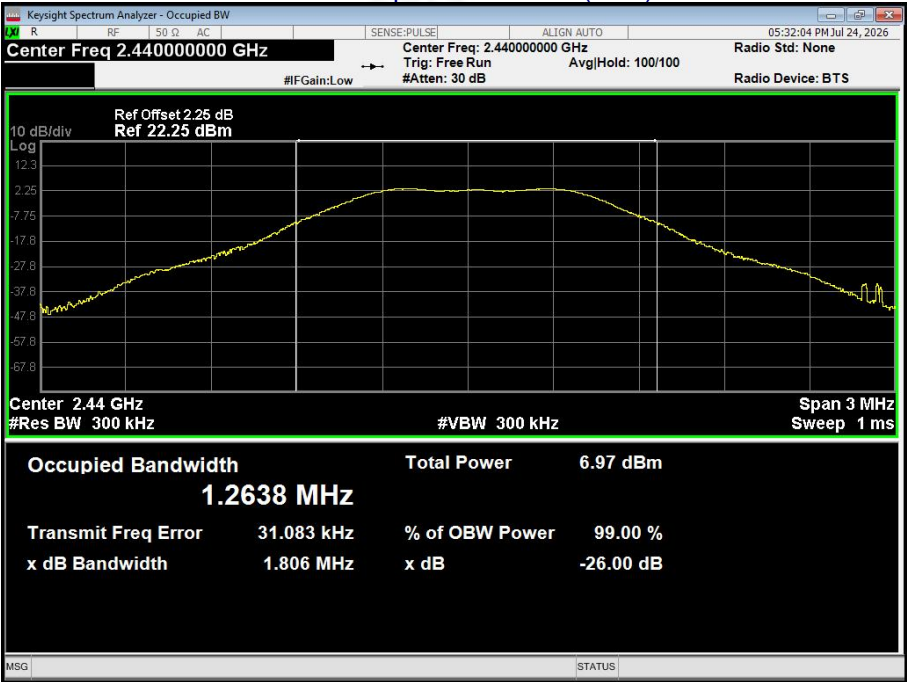
5.3.6 TEST RESULT

Test voltage	Channel (MHz)	99% Occupied Bandwidth (MHz)	Limits (MHz)	Result
Normal	2402	1.2704	≦ 26	Pass
	2440	1.2638	≦ 26	Pass
	2480	1.2489	≦ 26	Pass

CH01 Occupied Bandwidth (99%)

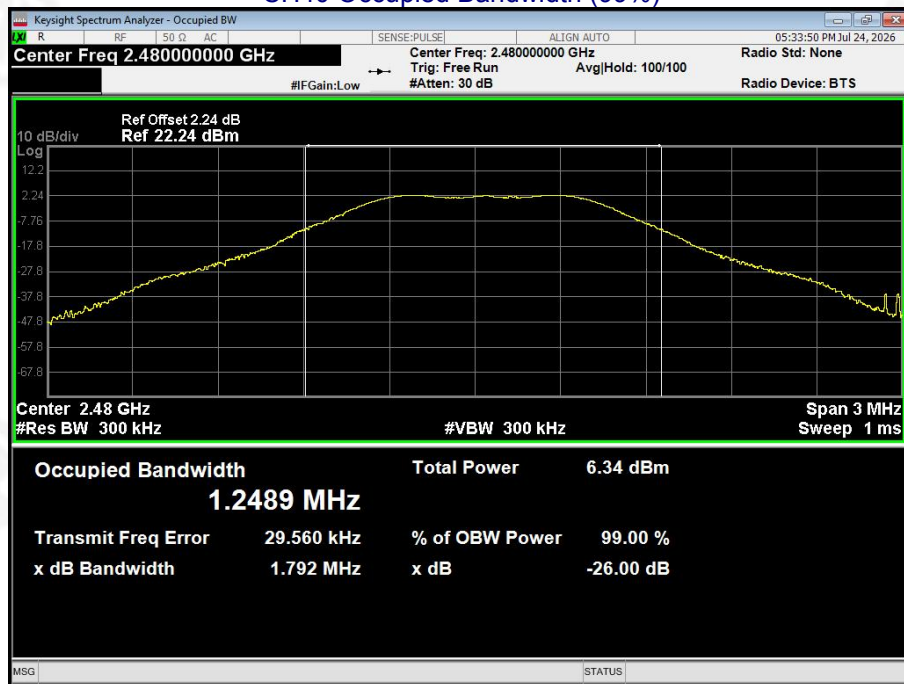


CH20 Occupied Bandwidth (99%)





CH40 Occupied Bandwidth (99%)





5.4 UNWANTED EMISSION INTENSITY MEASUREMENT

5.4.1 LIMIT

Item	Limits
TX Spurious Emission	Below 1G: 2.5uW/MHz or less Below 2387 MHz: 2.5μW/MHz or less 2387 to 2400 MHz: 25μW/MHz or less 2483.5 through 2496.5 MHz: 25μW/MHz or less Over 2496.5 MHz: 2.5μW/MHz or less

5.4.2 MEASURING INSTRUMENTS AND SETTING

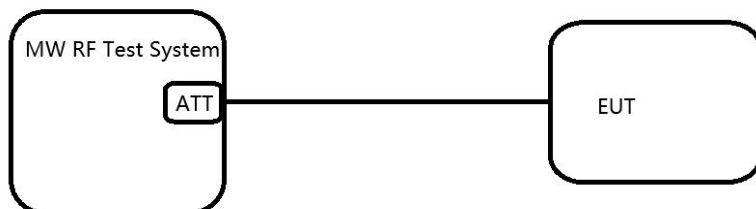
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.4.3 TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as:
Below 1GHz RB:1MHz / VB:1MHz;
Above 1GHz RB:1MHz / VB:1MHz;
AT: Auto; Ref: Auto; Sweep time: Auto;Sweep Mode: Continuous sweep; Detect mode: Peak;
Trace mode: Max hold.
3. Setting of SA is following as 30MHz and stop frequency 1000MHz;
Then to mark peak reading value + cable loss shall be less than 2.5uW/MHz.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz;
Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz;
Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz;
Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz;
Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.

5.4.4 TEST SETUP LAYOUT



5.4.5 TEST DEVIATION

There is no deviation with the original Standard.



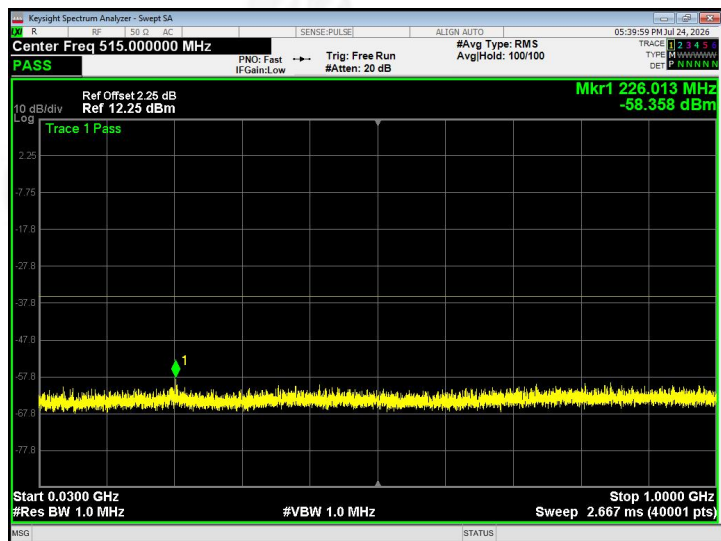
5.4.6 TEST RESULT

Test Voltage	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (uW/MHz)	Limit (uW/MHz)	Result
Normal	GFSK	2402	30-1000	226.01	-58.36	0.0015	2.5	Pass
			1000-2387	2210.37	-43.86	0.0411	2.5	Pass
			2387-2400	2399.92	-33.35	0.4624	25	Pass
			2483.5-2496.5	2496.46	-55.67	0.0027	25	Pass
			2496.5-13000	2594.18	-44.05	0.0394	2.5	Pass
Normal	GFSK	2440	30-1000	233.07	-59.35	0.0012	2.5	Pass
			1000-2387	2248.51	-43.17	0.0482	2.5	Pass
			2387-2400	2398.83	-47.70	0.0170	25	Pass
			2483.5-2496.5	2488.07	-48.52	0.0141	25	Pass
			2496.5-13000	2632.52	-44.51	0.0354	2.5	Pass
Normal	GFSK	2480	30-1000	723.19	-58.54	0.0014	2.5	Pass
			1000-2387	2288.42	-41.62	0.0689	2.5	Pass
			2387-2400	2396.58	-55.43	0.0029	25	Pass
			2483.5-2496.5	2483.50	-41.35	0.0733	25	Pass
			2496.5-13000	2672.70	-45.17	0.0304	2.5	Pass

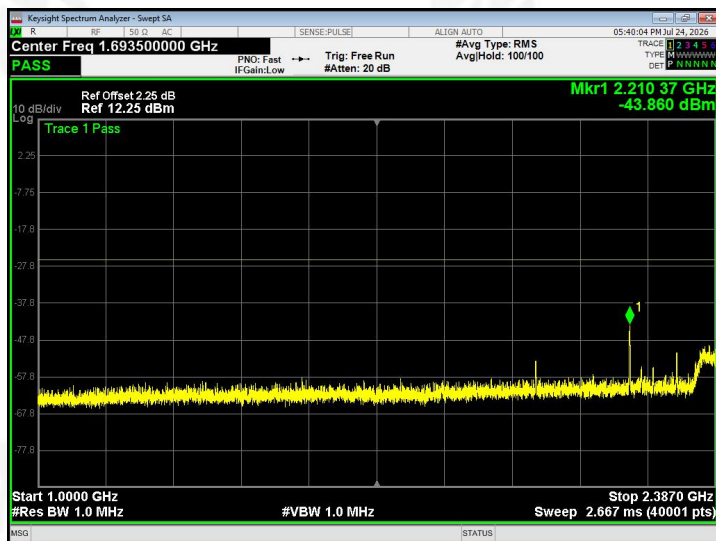


Modulation type: GFSK

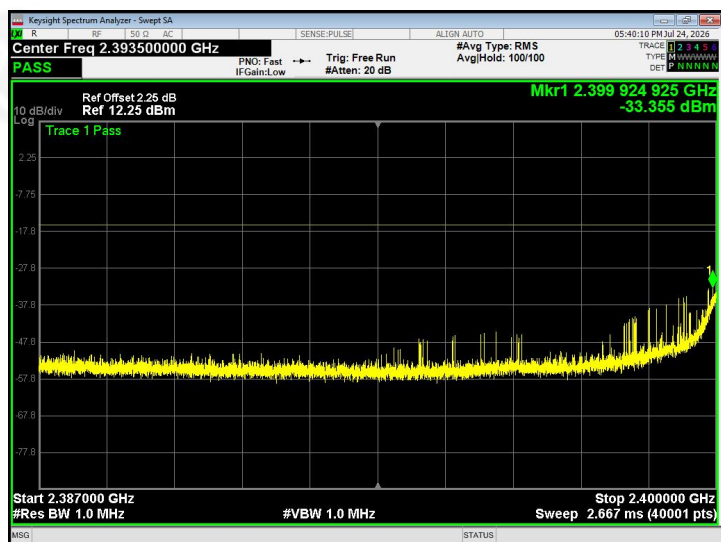
Test voltage	Normal	Test Channel (MHz)	2402.00
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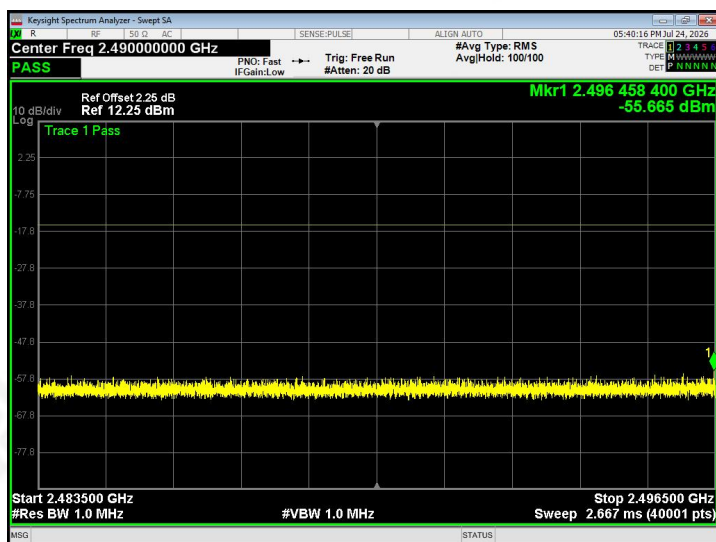
$30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$



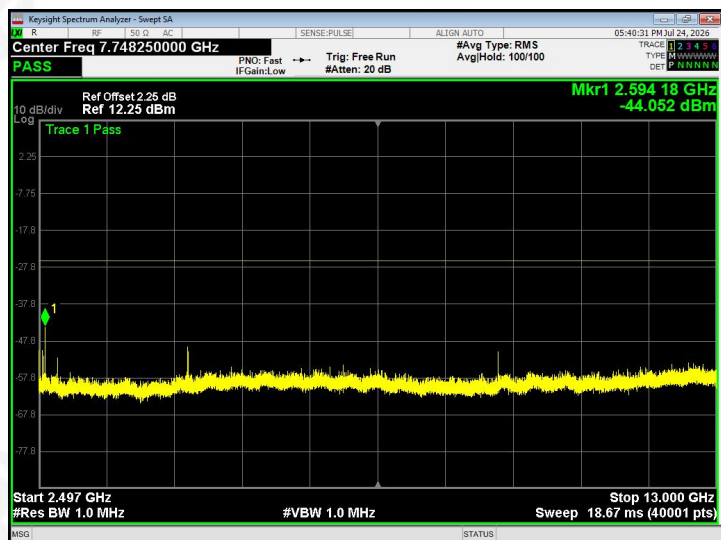
$1000 \text{ MHz} < f \leq 2387 \text{ MHz}$



$2387 \text{ MHz} < f \leq 2400 \text{ MHz}$



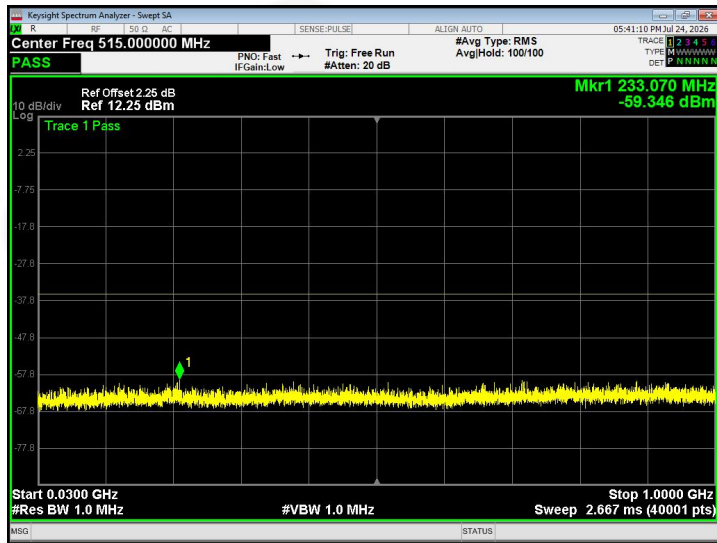
$2483.5 \text{ MHz} \leq f < 2496.5 \text{ MHz}$



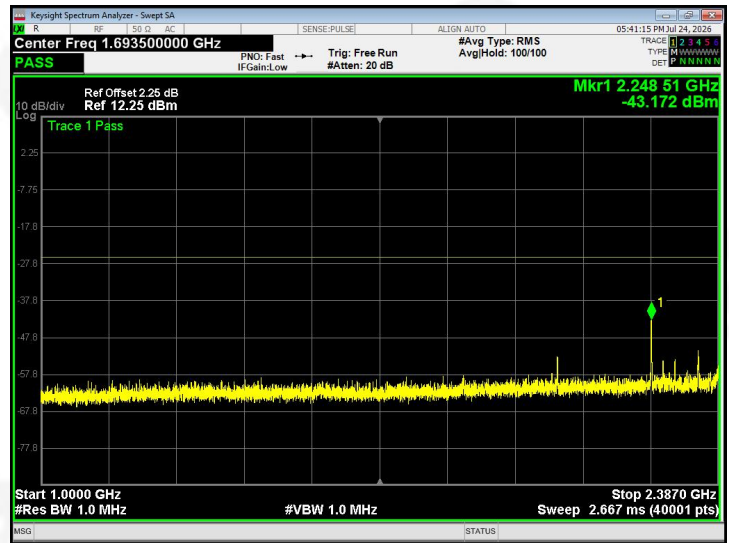
$2496.5 \text{ MHz} \leq f < 13 \text{ GHz}$



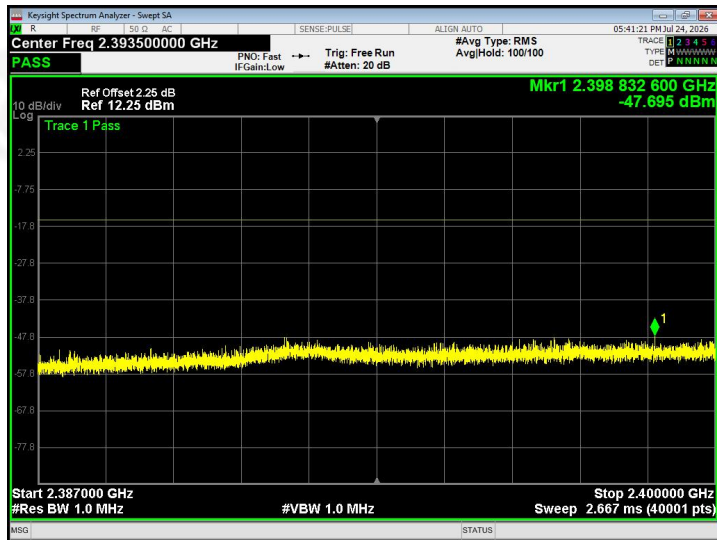
Test voltage	Normal	Test Channel (MHz)	2440.00
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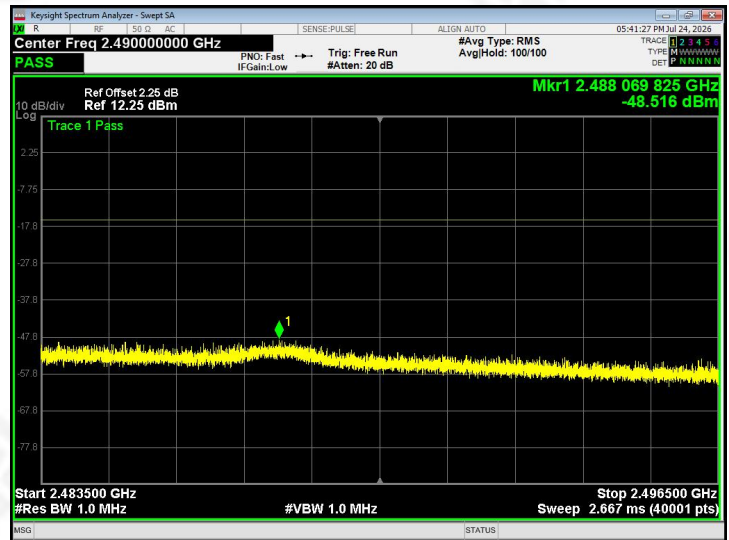
$30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$



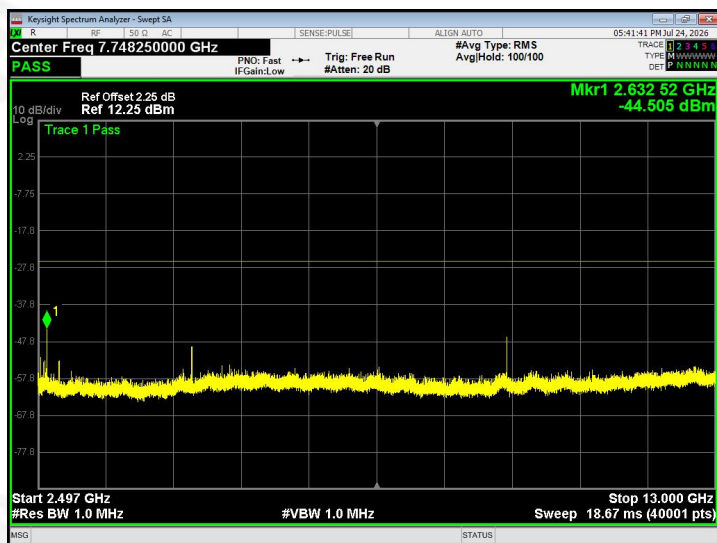
$1000 \text{ MHz} < f \leq 2387 \text{ MHz}$



$2387 \text{ MHz} < f \leq 2400 \text{ MHz}$



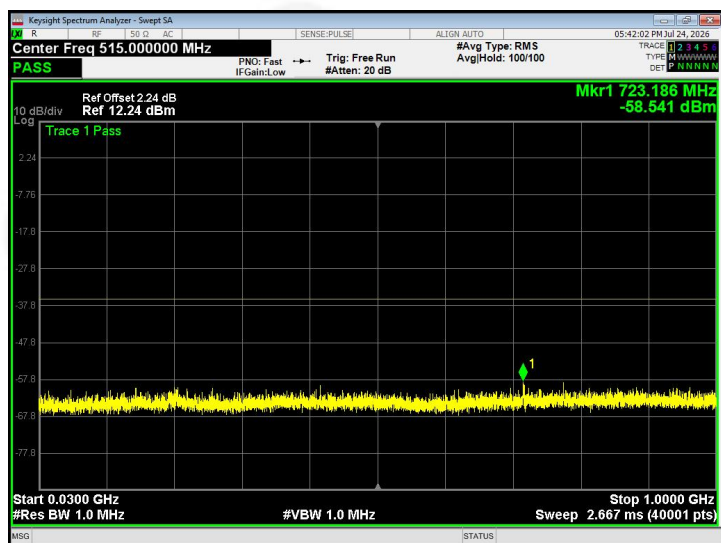
$2483.5 \text{ MHz} \leq f < 2496.5 \text{ MHz}$



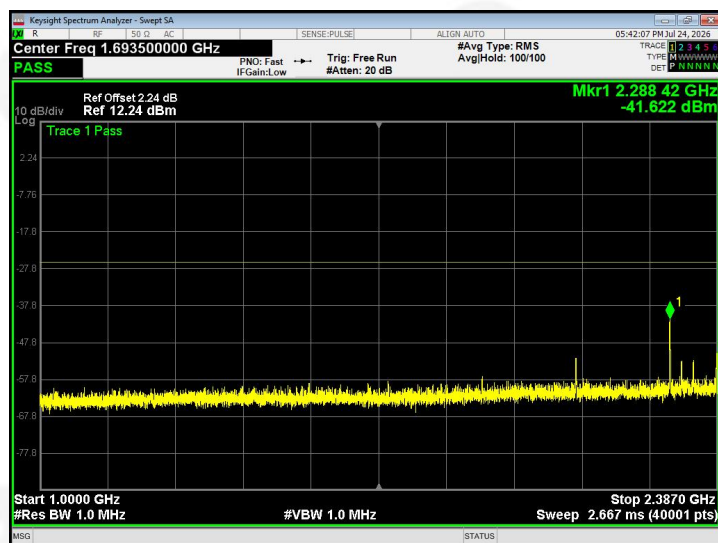
$2496.5 \text{ MHz} \leq f < 13 \text{ GHz}$



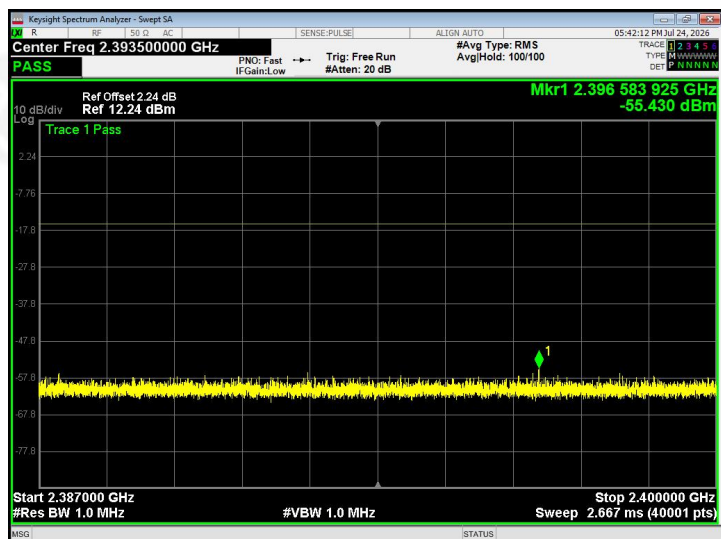
Test voltage	Normal	Test Channel (MHz)	2480.00
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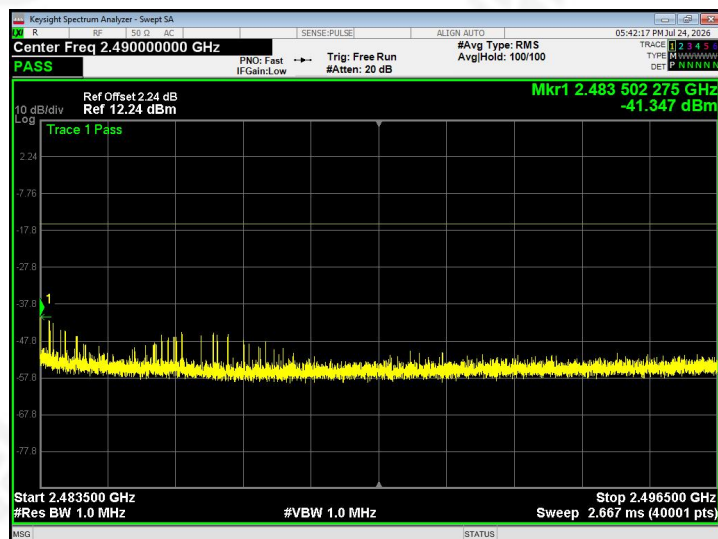
$30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$



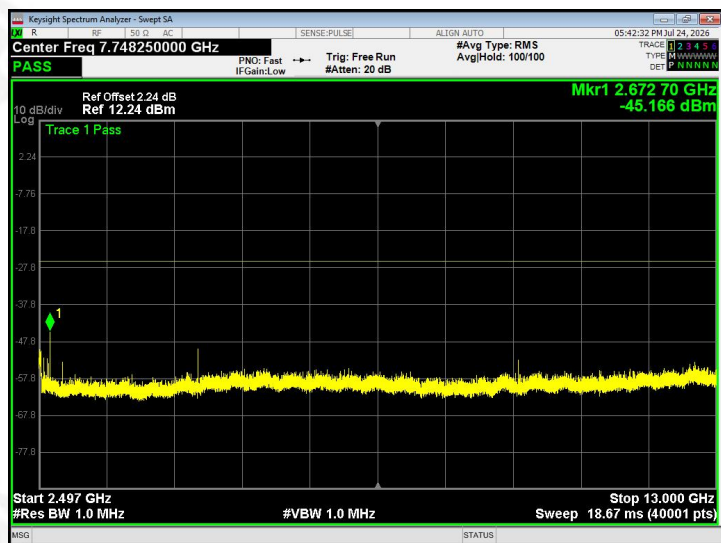
$1000 \text{ MHz} < f \leq 2387 \text{ MHz}$



$2387 \text{ MHz} < f \leq 2400 \text{ MHz}$



$2483.5 \text{ MHz} \leq f < 2496.5 \text{ MHz}$



$2496.5 \text{ MHz} \leq f < 13 \text{ GHz}$



5.5 IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

5.5.1 LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

5.5.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

5.5.3 TEST PROCEDURES

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions); 1 MHz (above 1GHz emissions)
AT: Auto; Ref: Auto; Sweep time: Auto; Sweep Mode: Continuous sweep; Detect mode: RMS;
Trace mode: Max hold.
3. SA set RB: 100kHz and VB: 100kHz; Then adjust to start frequency 30MHz and stop frequency 1000MHz; Search to mark peak reading value + cable loss shall be less than 4nW.
4. SA set RB: 1MHz and VB: 1MHz; Then adjust to start frequency 1000MHz and stop frequency 12500MHz; Search to mark peak reading value + cable loss shall be less than 20nW.
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$); all those are to be indicated in the 2nd and 3rd lines; If others are 1/10 or less more of the limit, no necessary to be indicated.



5.5.4 TEST RESULT

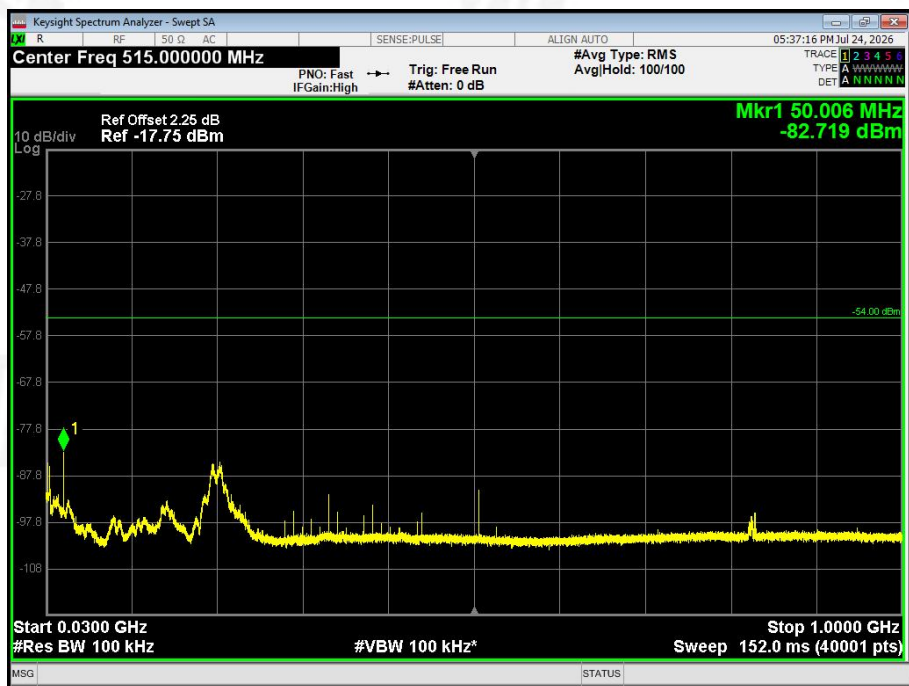
Test Voltage	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Result
Normal	GFSK	2402	30-1000	50.006	-82.719	0.00535	4	Pass
			1000-12500	2480.913	-79.937	0.01015	20	Pass
Normal	GFSK	2440	30-1000	50.006	-83.097	0.00490	4	Pass
			1000-12500	2459.925	-83.248	0.00473	20	Pass
Normal	GFSK	2480	30-1000	50.006	-83.321	0.00465	4	Pass
			1000-12500	2459.350	-83.992	0.00399	20	Pass



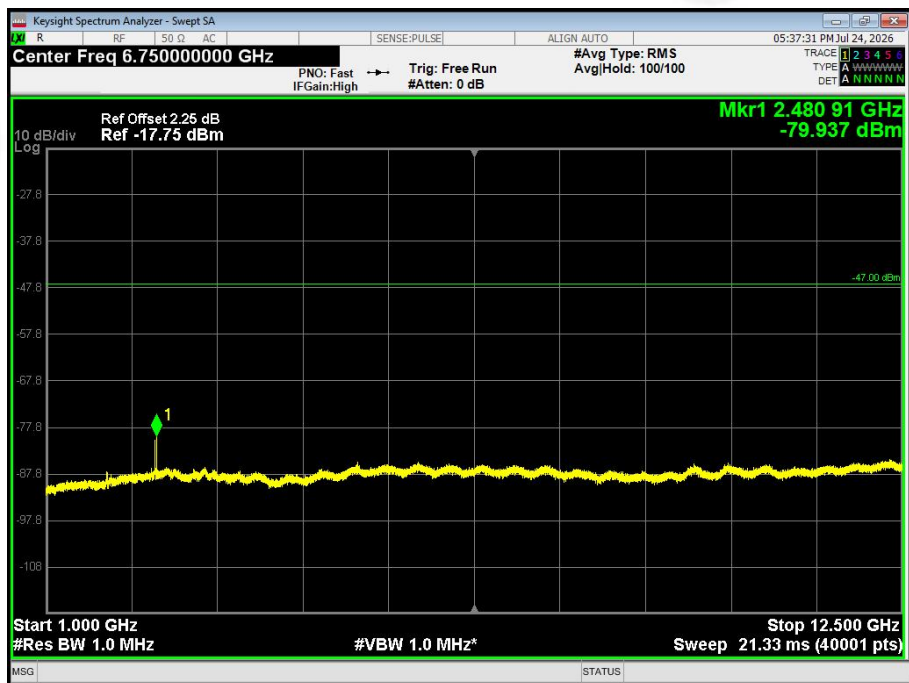
Modulation type: GFSK

Test voltage	Normal	Test Channel	2402MHz
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30MHz~1GHz



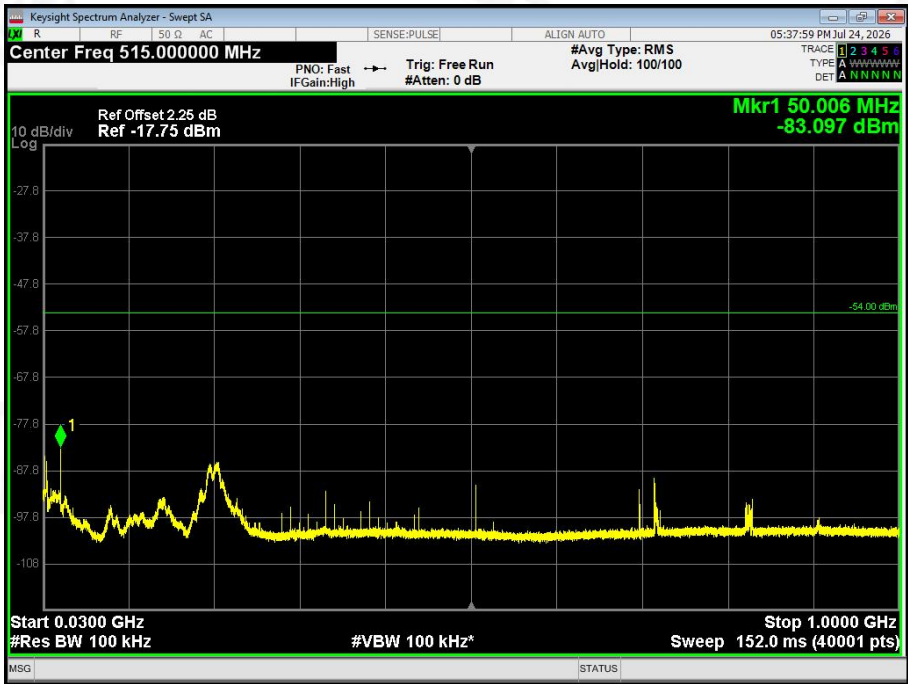
1GHz~12.5GHz



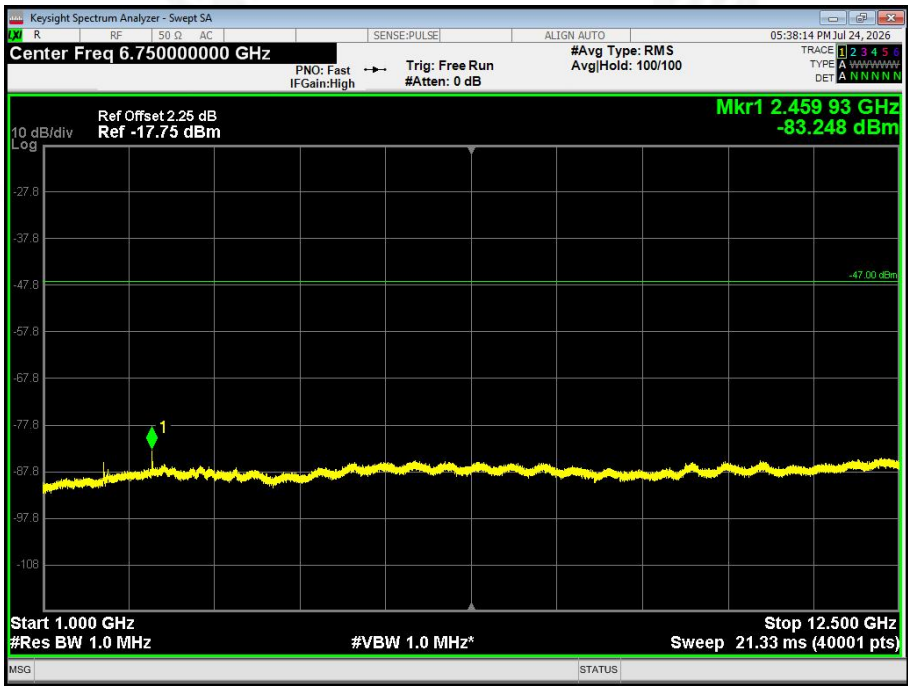


Test voltage	Normal	Test Channel	2440MHz
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30MHz~1GHz



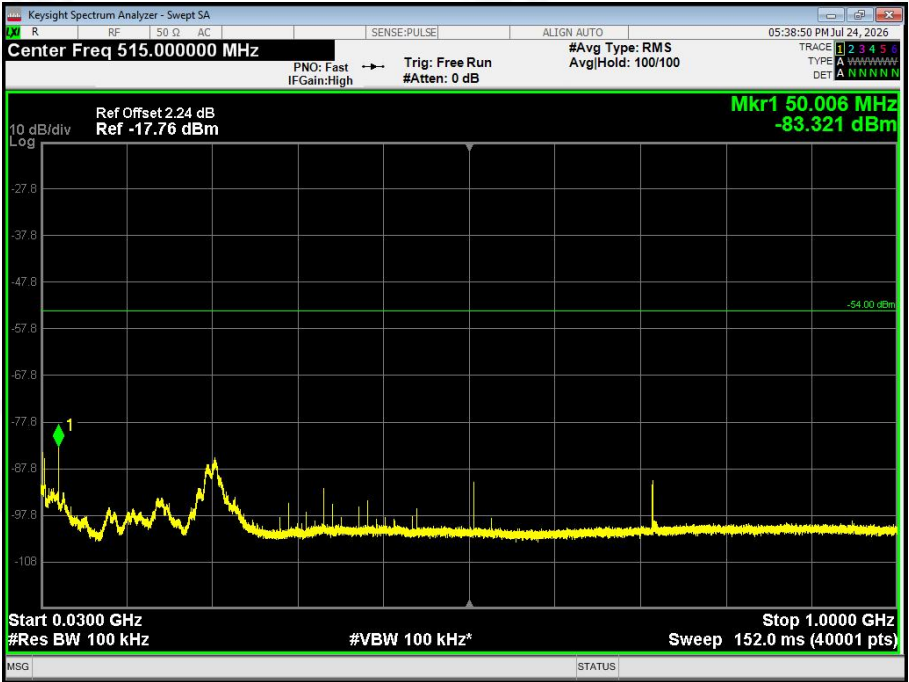
1GHz~12.5GHz



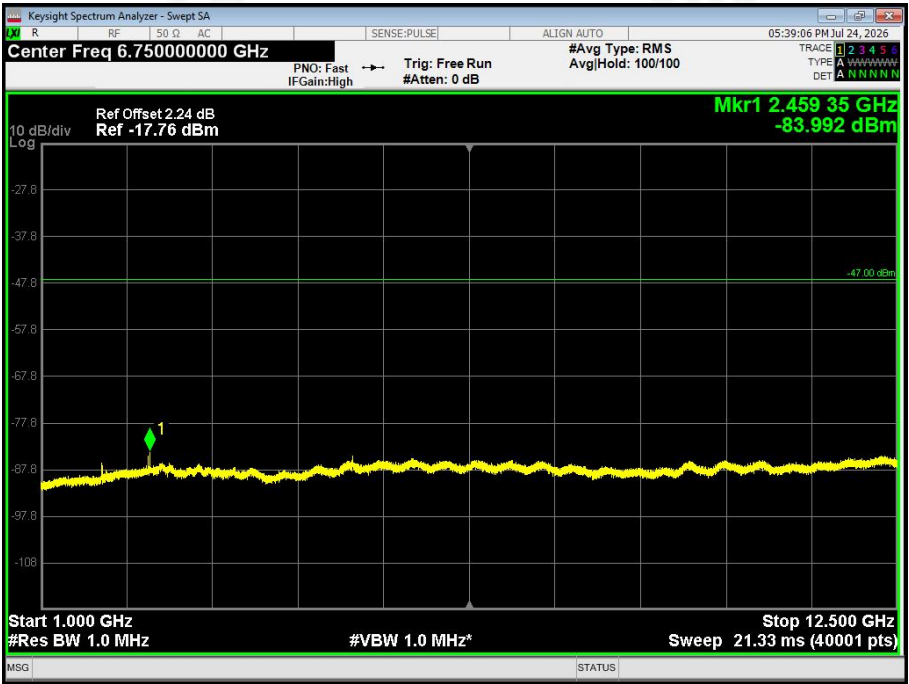


Test voltage	Normal	Test Channel	2480MHz
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30MHz~1GHz



1GHz~12.5GHz





5.6 RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

5.6.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

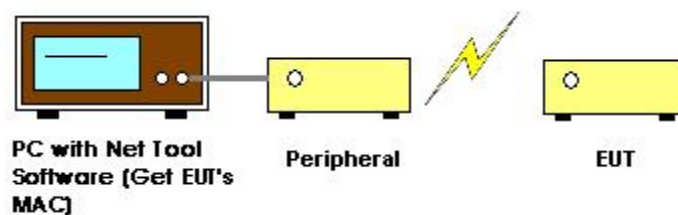
5.6.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

5.6.3 TEST PROCEDURES

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes form EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification ocde:
 - a. Transmit the predetermined identification codes form the counterpart.
 - b . Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes form the counterpart.
 - d. check if the EUT stops the transmission, or if it displays that idnetification codes are different from the predetermined ones.

5.6.4 TEST SETUP LAYOUT



5.6.5 TEST DEVIATION

There is no deviation with the original Standard.

5.6.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

5.6.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILIT

MAC Address: 97:ee:dc:67:f9:f2



5.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

5.7.1. LIMIT

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A=1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

5.7.2. MEASURING INSTRUMENTS AND SETTING

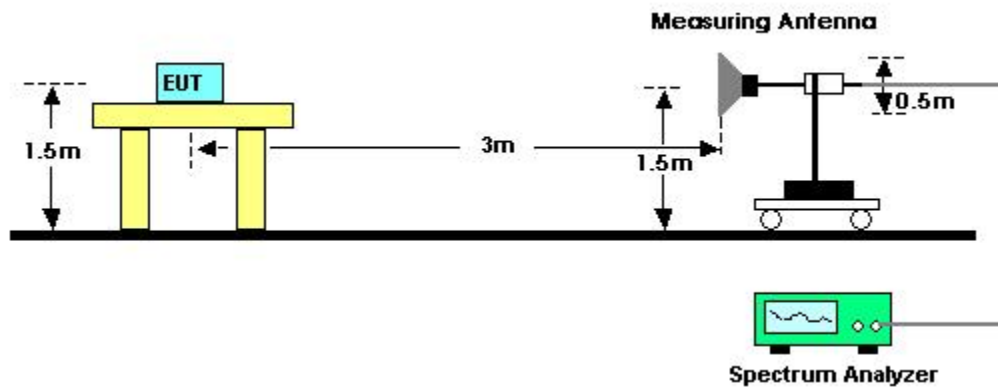
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.7.3. TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A=1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$.



5.7.4. TEST SETUP LAYOUT



5.7.5. TEST DEVIATION

There is no deviation with the original Standard.

5.7.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.7.7. TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

Not applicable, when EIRP is less than 12.14dBm.



6. EUT TEST PHOTO

Reference to the appendix I for details.

7. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****