

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	HANGZHOU LIJIACHENG ELECTRIC CO.,LTD
Address	:	No. 35 Yangshan Road, Gaohong industrial Zone, Lin'an City, Hangzhou China.
Equipment under Test	:	LED down light
Model No.	:	LJC-US-SDLG3F-Y4C10.5W950-RGBCW12W-21V1, LJC-US-SDLG3F-Y6C13W950-RGBCW12W-21V1, LJC-US-SDLG3F-F4C10.5W950-RGBCW13W-21V1, LJC-US-SDLG3F-F6C13W950-RGBCW13W-21V1
Trade Mark	:	N/A
FCC ID	:	2AW8CGJJKTD
Manufacturer	:	HANGZHOU LIJIACHENG ELECTRIC CO.,LTD
Address	:	No. 35 Yangshan Road, Gaohong industrial Zone, Lin'an City, Hangzhou China.

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

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REPORT

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Test Report Declare

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Trade Mark	:	N/A
Manufacturer	:	HANGZHOU LIJIACHENG ELECTRIC CO.,LTD
Address	:	No. 35 Yangshan Road, Gaohong industrial Zone, Lin'an City, Hangzhou China.

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C

Test procedure used: ANSI C63.10:2013,

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-RE23040334-2E02		
Date of Receipt:	Apr. 07, 2023	Date of Test:	Apr. 07, 2023 ~ May 16, 2023

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	May 25, 2023	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2)	PASS
Conducted Output Power	FCC Part 15: 15.247(b)(3)	PASS
Power Spectral Density	FCC Part 15:15.247(e)	PASS
Band-edge and Spurious Emissions (Conducted)	FCC Part 15: 15.247(d)	PASS
Radiated Spurious Emissions	FCC Part 15: 15.205 FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Radiated Band Edge Compliance	FCC Part 15: 15.205 FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Power Line Conducted Emission	FCC Part 15: 15.207(a)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. General Test Information

2.1. Description of EUT

EUT Name	: LED down light
Model Number	: LJC-US-SDLG3F-Y4C10.5W950-RGBCW12W-21V1, LJC-US-SDLG3F-Y6C13W950-RGBCW12W-21V1, LJC-US-SDLG3F-F4C10.5W950-RGBCW13W-21V1, LJC-US-SDLG3F-F6C13W950-RGBCW13W-21V1
Difference of models	: LJC-US-SDLG3F-W#CWWWCXX-#####SSM-ZZV# Model difference: 1. LJC-US-SDLG3F:product name 2. Y: circular; F: square 3. 6C: 6-inch; 4C: 4-inch 4. 10.5W 13W: Product power 5. C can be 8 or 9 represents CRI. 6. 1st X can be A for CCT tunable or Blank for single CCT. 7. 2nd X can be 5, 4, 3, 2 or 1 for LED series gty. 8. 3rd and 4th X can be 27, 30, 35, 40, 50, 57 or 65 represents highest CCT. 9. 5th and 6th X can be 18, 20, 22 or 25 represents lowest CCT. 10. 1st S can be 1 for anti glare, or 2 for non-anti glare. 11. 2nd S can be any number represent junction box color. 12. V can be 1, 2, 3, 4, 5, 6 for lamp case color. 13. # can be any numbers represents the commercial code Above models are identical in schematic, only the name and structure are different for all the models, therefore the test performed on the model LJC-US-SDLG3F-Y6C13W950-RGBCW12W-21V1.
EUT function description	: Please reference user manual of this device
Power supply	: AC 120V/60Hz
Radio Technology	: IEEE 802.11b/g/n
Operation frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11b: up to 11 Mbps IEEE 802.11g: up to 54 Mbps IEEE 802.11n HT20: up to 72.2 Mbps IEEE 802.11n HT40: up to 150 Mbps
Antenna Type	: FPC antenna, Maximum PK gain: 5.59 dBi
Sample Number	: S23040334-03 for conductive S23040334-04 for radiation

Note 1: EUT is the ab. of equipment under test.

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: Wifi Test Tool v1.6.0 release.exe

The test software was used to control EUT work in Continuous Tx mode and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
	ANT1			
IEEE 802.11b	14	1	LCH: CH1	2412
	Default	1	MCH: CH6	2437
	Default	1	HCH: CH11	2462
IEEE 802.11g	20	6	LCH: CH1	2412
	20	6	MCH: CH6	2437
	20	6	HCH: CH11	2462
IEEE 802.11n HT20	20	MCS 0	LCH: CH1	2412
	20	MCS 0	MCH: CH6	2437
	20	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	20	MCS 0	LCH: CH3	2422
	20	MCS 0	MCH: CH6	2437
	20	MCS 0	HCH: CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation

2.6. Test environment conditions

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz); 1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz); 1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 × 10 ⁻⁸ (Antenna couple method) 5.5 × 10 ⁻⁸ (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz); 1.40 dB (3.6 GHz ≤ f < 8 GHz) 1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10 ⁻⁸
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

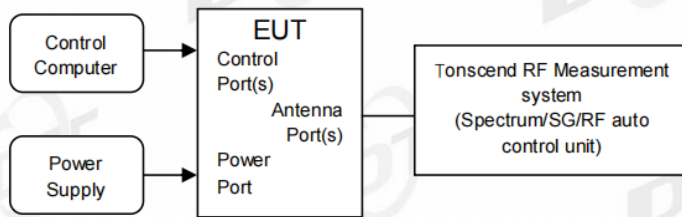
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑RF Connected Test (Tonscend RF Measurement System 3#)					
Signal & Spectrum analyzer	R&S	FSV40	101407	Jul. 21, 2022	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	May 18, 2022	1 Year
RF Control Unit	Tonscend	JS0806-2	20C8060230	May 18, 2022	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU26	100472	May 19, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 17, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 29, 2022	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 22, 2022	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120 D	02468	Sep. 29, 2022	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Apr. 26, 2023	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Aug. 17, 2022	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M+1.5M	Aug. 17, 2022	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ-NJ-9M	21123964	May 19, 2022	1 Year
RF Cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	21073466	Aug. 17, 2022	1 Year
Micro-Tronics filters	REBES	BRM50702	G555	N/A	N/A
Micro-Tronics filters	REBES	BRM50716	G392	N/A	N/A
High Pass filter	XB	XBLBQ-GTA67	210820-2-3	N/A	N/A
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☑Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Aug. 26, 2022	1 Year
LISN 1	R&S	ENV216	101109	Aug. 26, 2022	1 Year
LISN 2	R&S	ESH2-Z5	100309	Aug. 26, 2022	1 Year

Pulse Limiter	R&S	ESH3-Z2	101242	Aug. 26, 2022	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Aug. 26, 2022	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Test Receiver	R&S	ESCI	100551	Aug. 26, 2022	1 Year

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

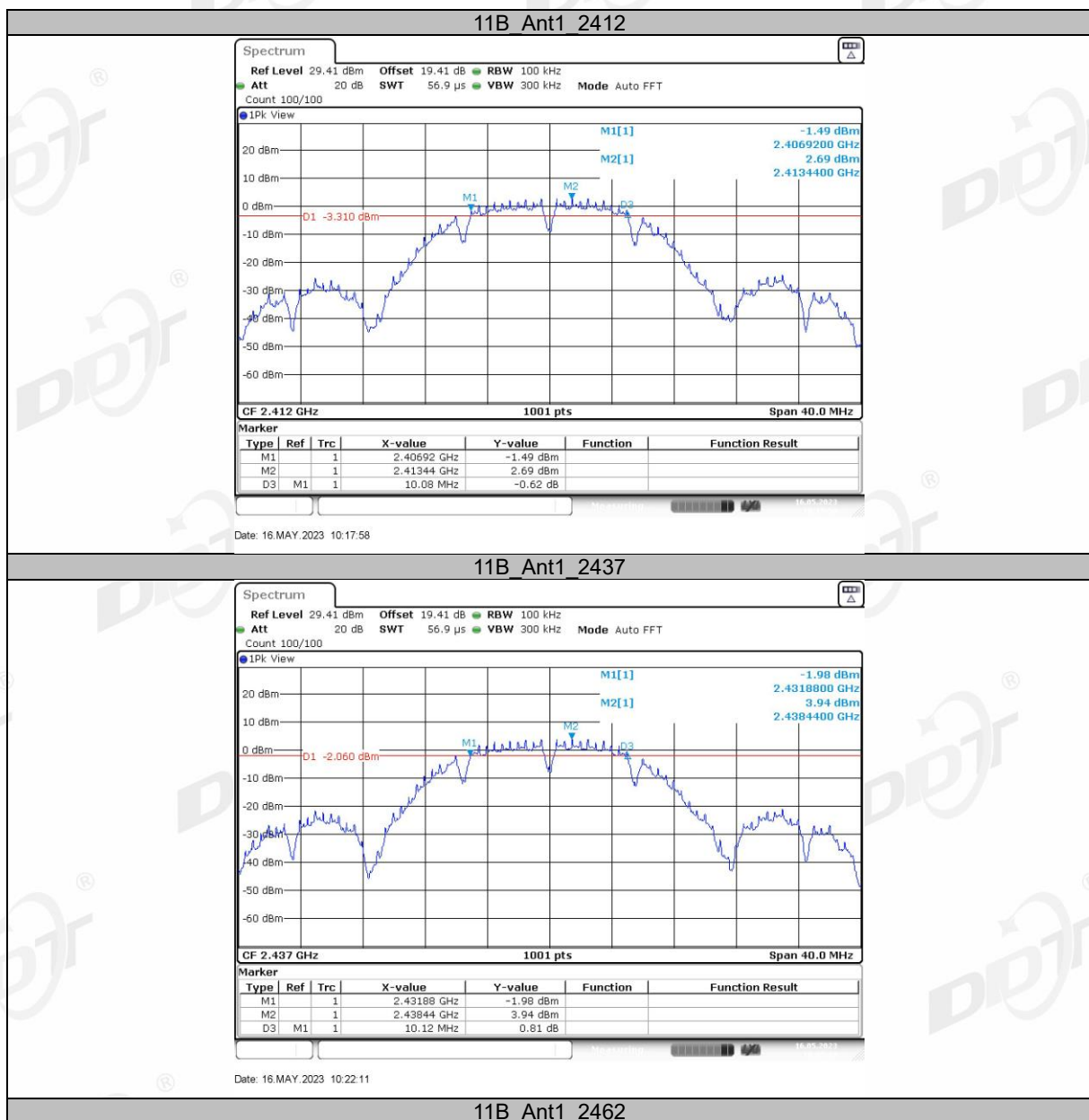
RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

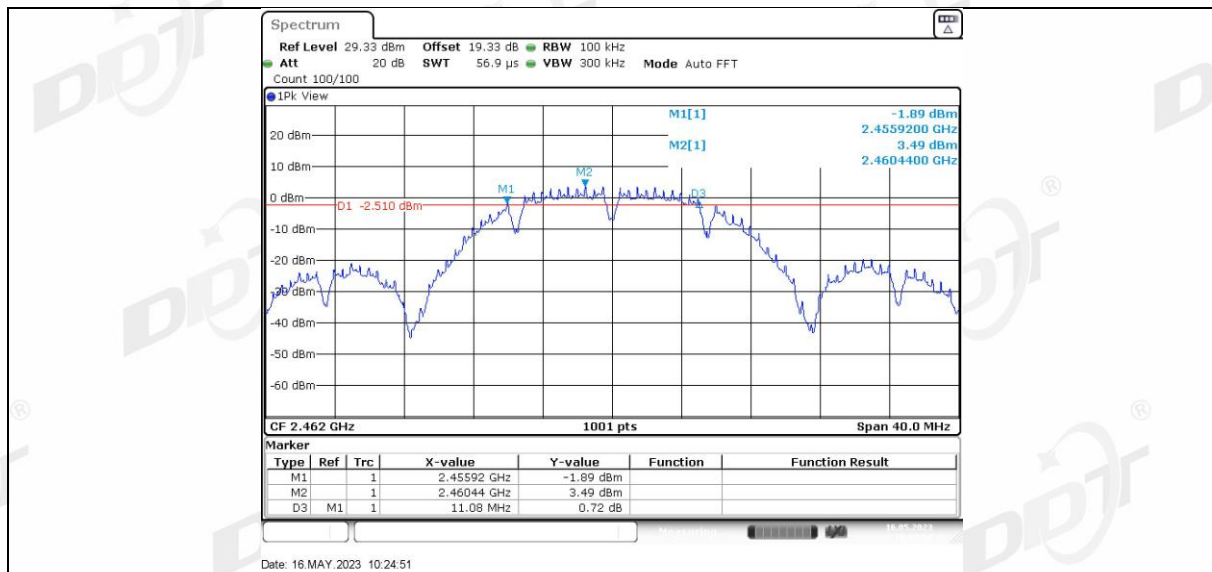
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

4.4. Test result

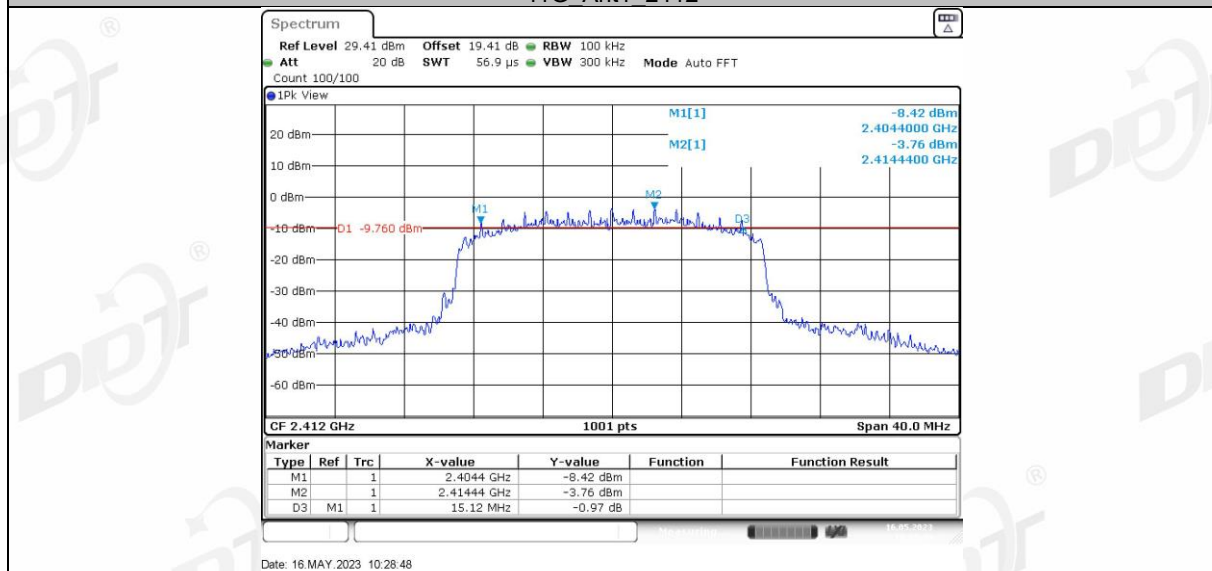
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.08	2406.92	2417.00	0.5	PASS
		2437	10.12	2431.88	2442.00	0.5	PASS
		2462	11.08	2455.92	2467.00	0.5	PASS
11G	Ant1	2412	15.12	2404.40	2419.52	0.5	PASS
		2437	15.12	2429.40	2444.52	0.5	PASS
		2462	15.08	2454.40	2469.48	0.5	PASS
11N20SISO	Ant1	2412	15.04	2404.44	2419.48	0.5	PASS
		2437	15.04	2429.44	2444.48	0.5	PASS
		2462	15.04	2454.44	2469.48	0.5	PASS
11N40SISO	Ant1	2422	33.84	2405.68	2439.52	0.5	PASS
		2437	33.84	2420.68	2454.52	0.5	PASS
		2452	33.84	2435.68	2469.52	0.5	PASS

4.5. Test graphs

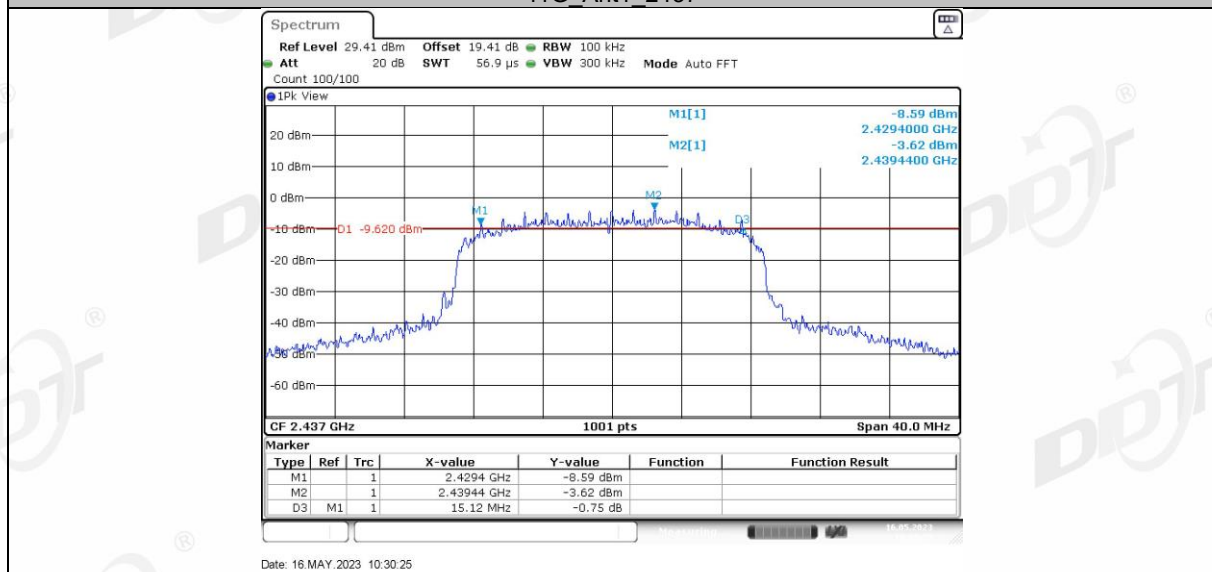




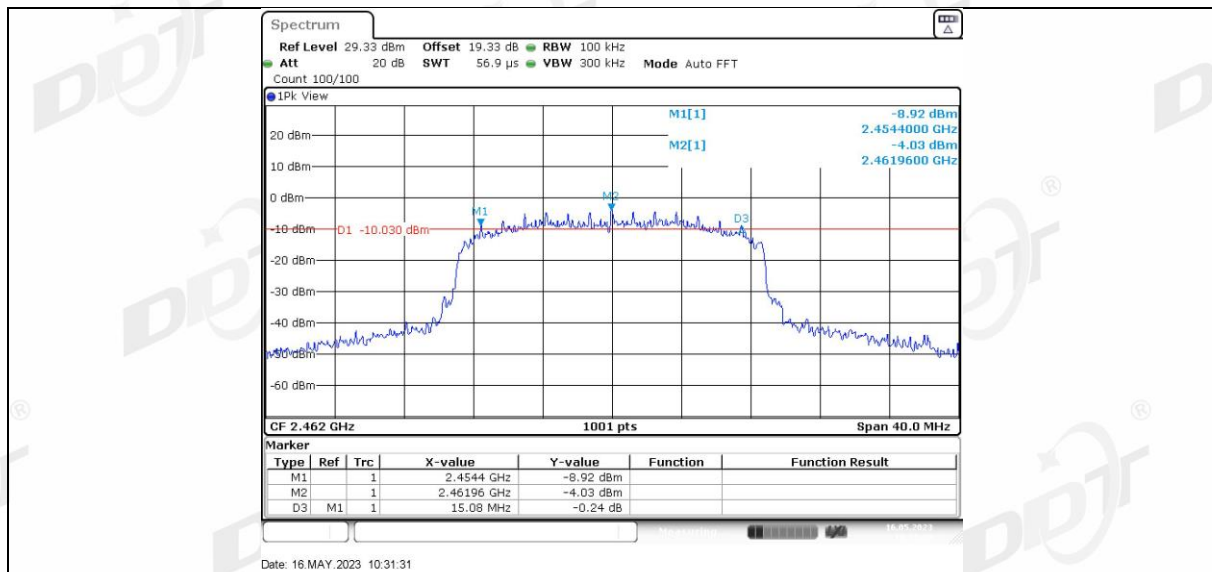
11G Ant1 2412



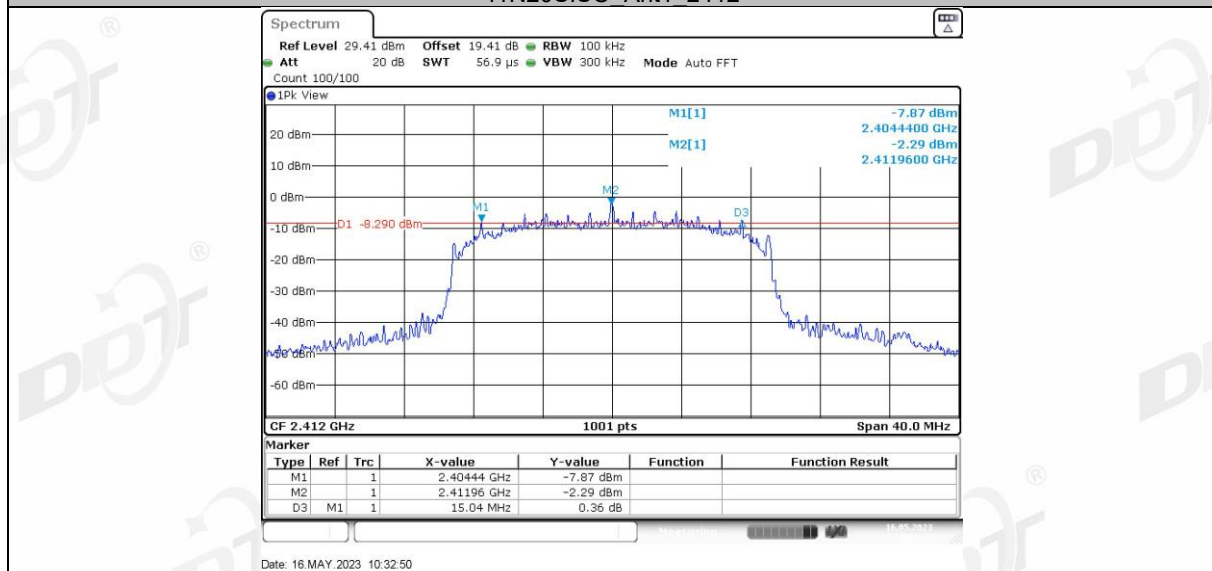
11G Ant1 2437



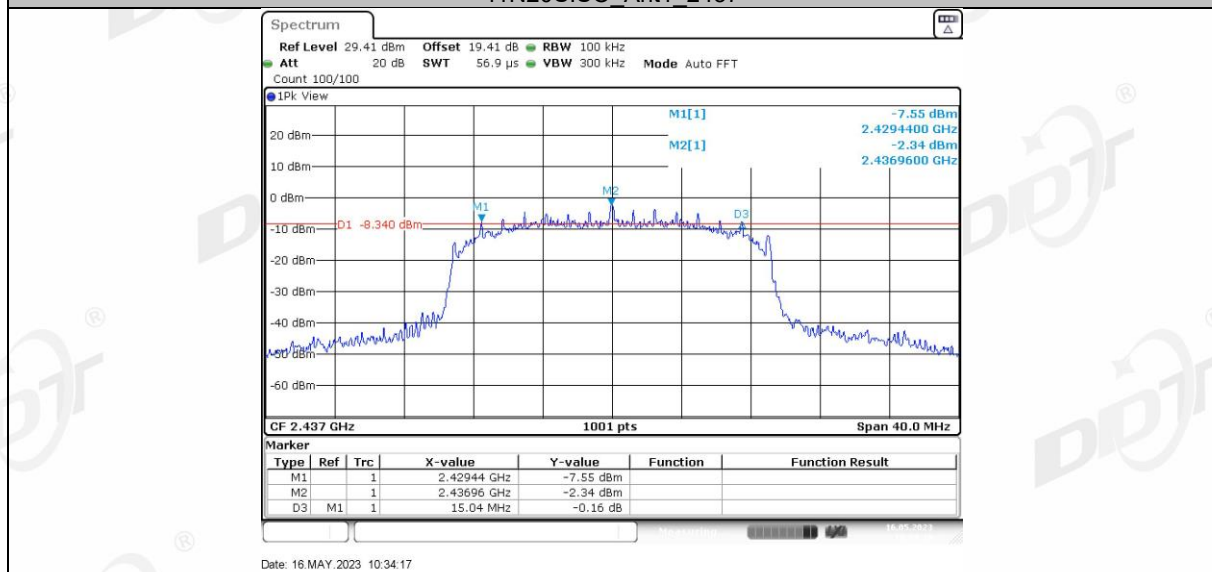
11G Ant1 2462



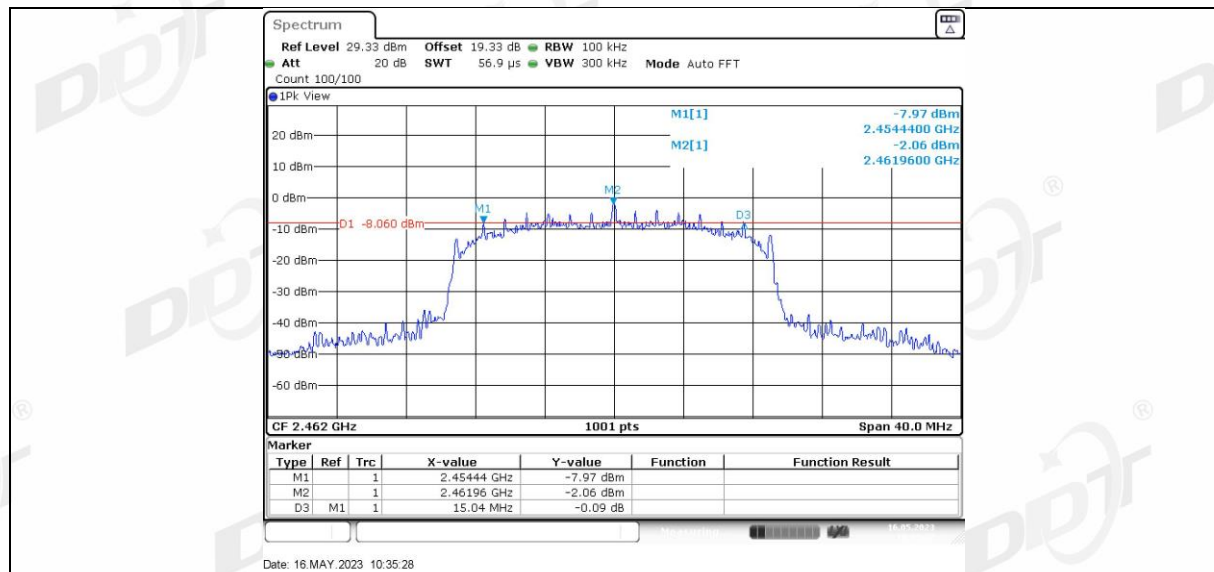
11N20SISO Ant1_2412



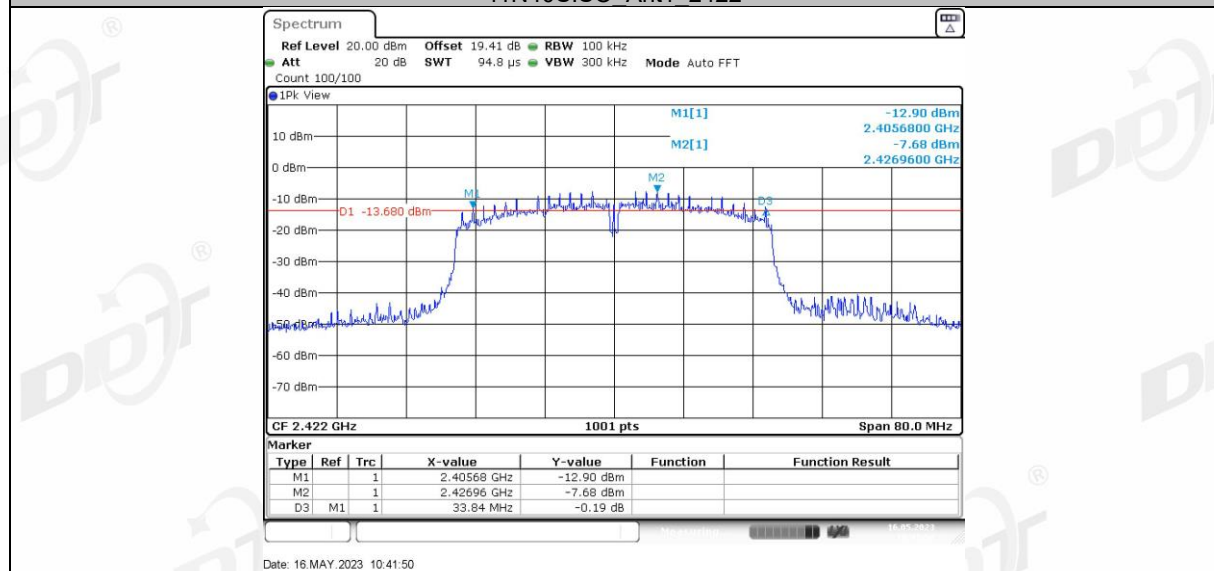
11N20SISO Ant1_2437



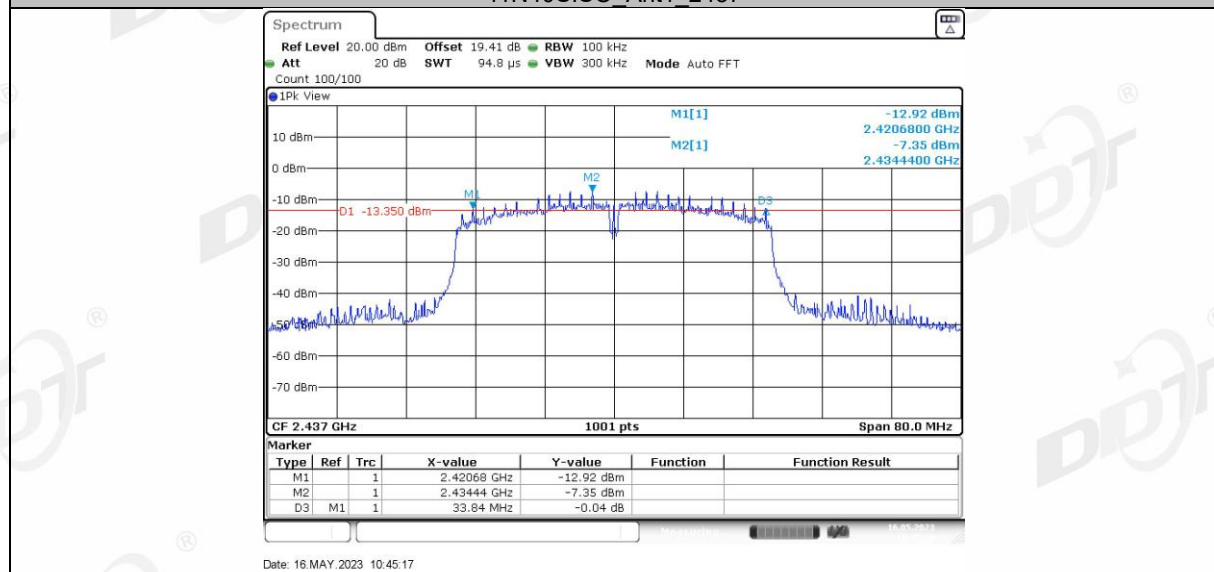
11N20SISO Ant1_2462



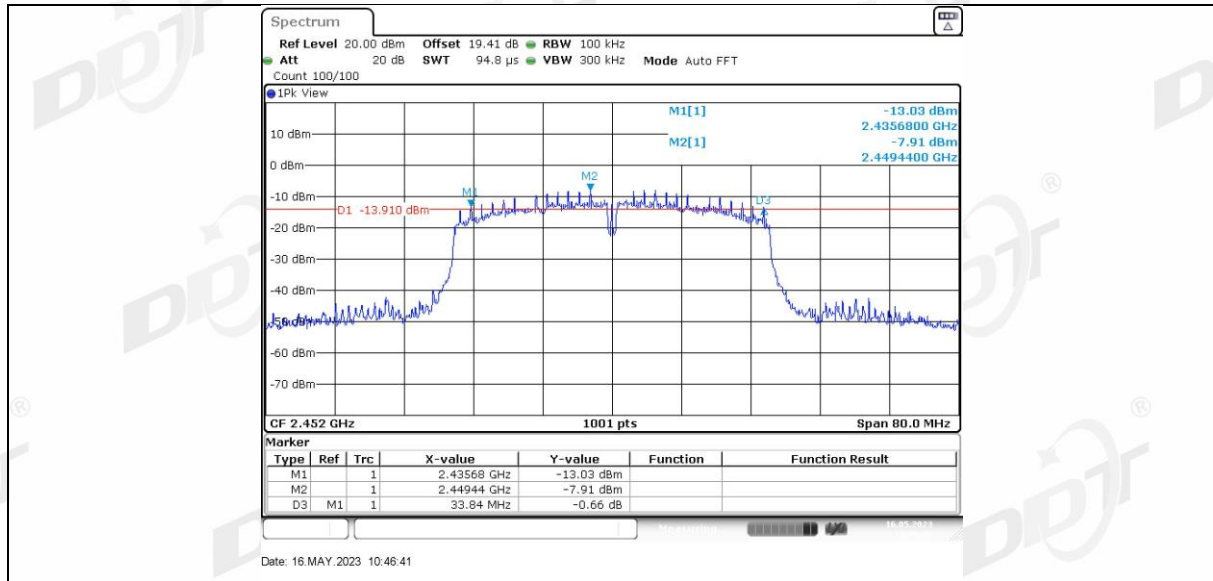
11N40SISO Ant1_2422



11N40SISO Ant1_2437

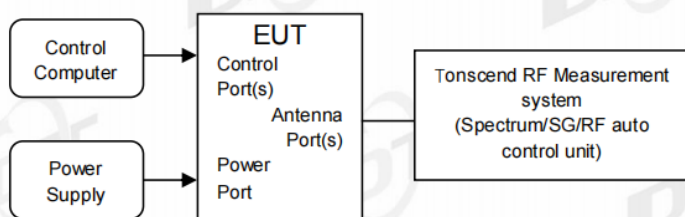


11N40SISO Ant1_2452



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

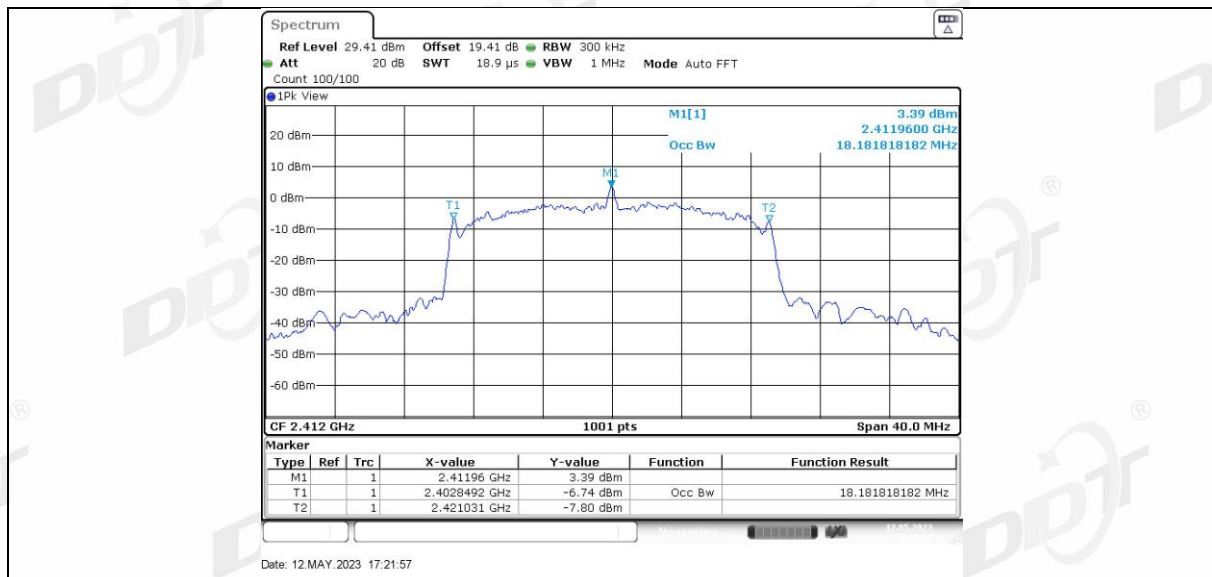
5.4. Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.305	2404.2478	2419.5524	---	---
		2437	15.864	2428.9680	2444.8322	---	---
		2462	16.344	2453.8482	2470.1918	---	---
11G	Ant1	2412	17.103	2403.4885	2420.5914	---	---
		2437	16.903	2428.5285	2445.4316	---	---
		2462	17.183	2453.4086	2470.5914	---	---
11N20SISO	Ant1	2412	18.182	2402.8492	2421.0310	---	---
		2437	17.902	2428.1289	2446.0310	---	---
		2462	18.142	2452.8891	2471.0310	---	---
11N40SISO	Ant1	2422	35.485	2404.2577	2439.7423	---	---
		2437	35.325	2419.3377	2454.6623	---	---
		2452	35.405	2434.2577	2469.6623	---	---

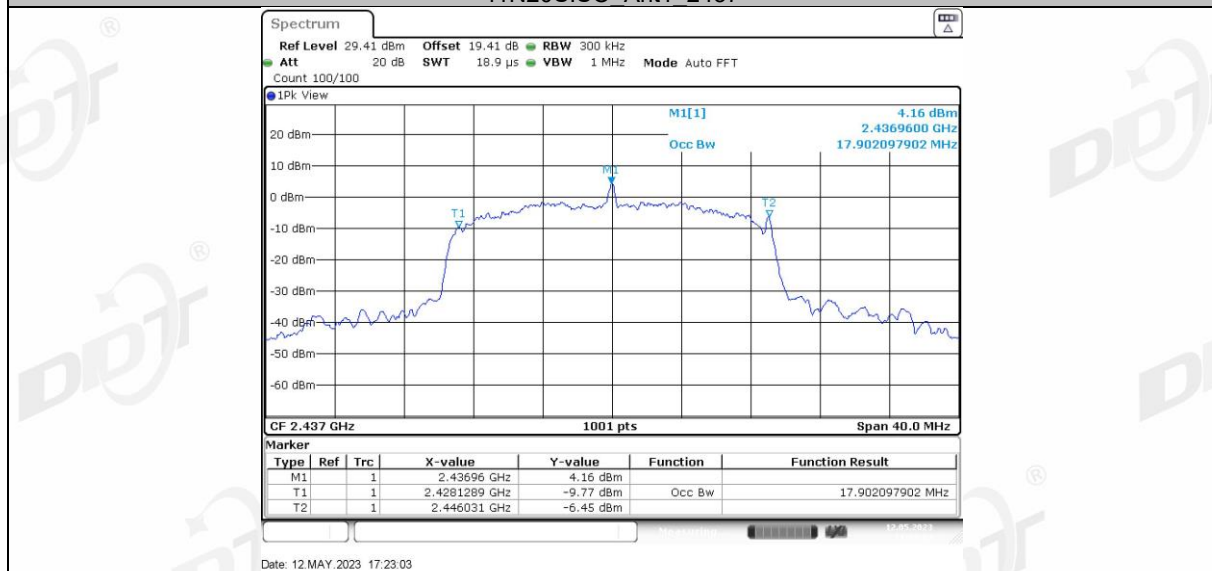
5.5. Test Graphs



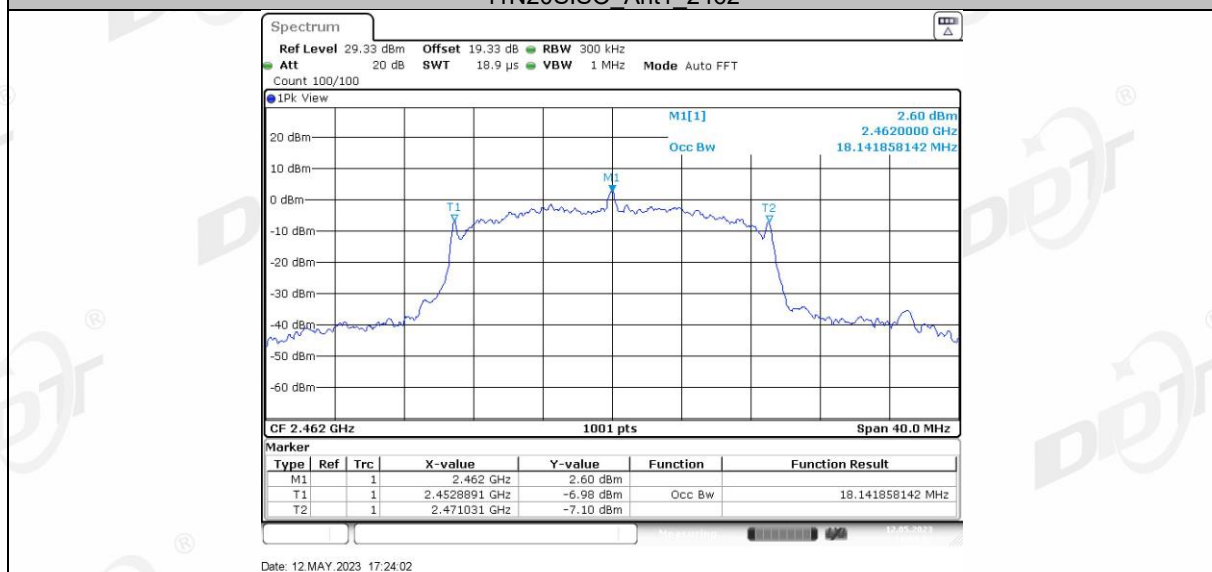




11N20SISO Ant1_2437



11N20SISO Ant1_2462

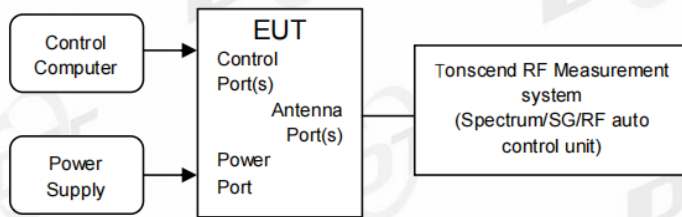


11N40SISO Ant1_2422



6. Conducted Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

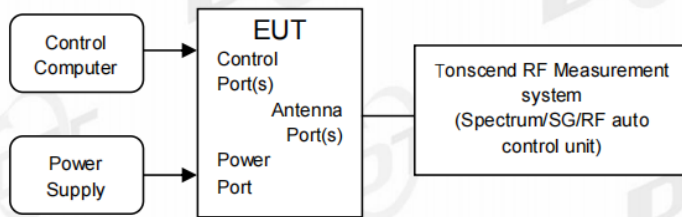
6.4. Test result average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	13.36	99.06	0.04	13.40	≤30.00	18.99	≤36.00	PASS
		2437	14.72	98.94	0.05	14.77	≤30.00	20.36	≤36.00	PASS
		2462	14.50	98.94	0.05	14.55	≤30.00	20.14	≤36.00	PASS
11G	Ant1	2412	7.15	98.59	0.06	7.21	≤30.00	12.80	≤36.00	PASS
		2437	7.24	98.58	0.06	7.30	≤30.00	12.89	≤36.00	PASS
		2462	6.84	98.59	0.06	6.90	≤30.00	12.49	≤36.00	PASS
11N20 SISO	Ant1	2412	7.08	98.48	0.07	7.15	≤30.00	12.74	≤36.00	PASS
		2437	7.14	98.48	0.07	7.21	≤30.00	12.80	≤36.00	PASS
		2462	6.69	98.47	0.07	6.76	≤30.00	12.35	≤36.00	PASS
11N40 SISO	Ant1	2422	6.06	98.48	0.07	6.13	≤30.00	11.72	≤36.00	PASS
		2437	5.85	98.48	0.07	5.92	≤30.00	11.51	≤36.00	PASS
		2452	5.33	98.48	0.07	5.40	≤30.00	10.99	≤36.00	PASS

Note: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.10.5.
 - (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
 - (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
 - (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	max hold
	Employ trace averaging (rms)
Trace	mode over a minimum of 100 traces.
 - (5) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

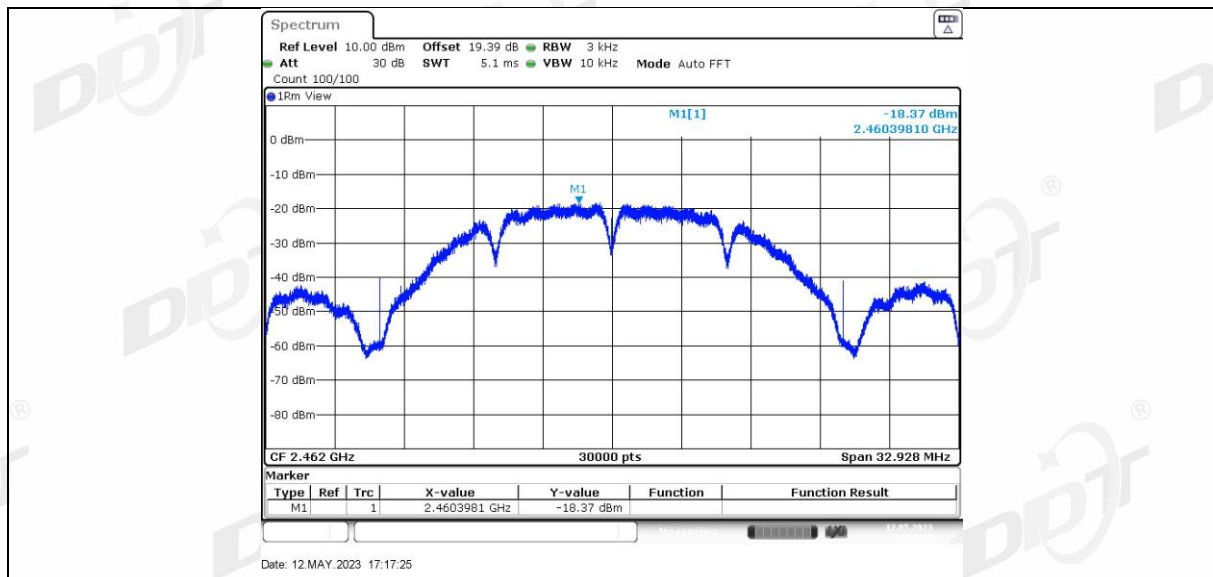
7.4. Test result

Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.19	≤8.00	PASS
		2437	-17.08	≤8.00	PASS
		2462	-18.37	≤8.00	PASS
11G	Ant1	2412	-16.00	≤8.00	PASS
		2437	-15.47	≤8.00	PASS
		2462	-15.84	≤8.00	PASS
11N20SISO	Ant1	2412	-14.83	≤8.00	PASS
		2437	-14.09	≤8.00	PASS
		2462	-14.82	≤8.00	PASS
11N40SISO	Ant1	2422	-15.30	≤8.00	PASS
		2437	-15.26	≤8.00	PASS
		2452	-15.51	≤8.00	PASS

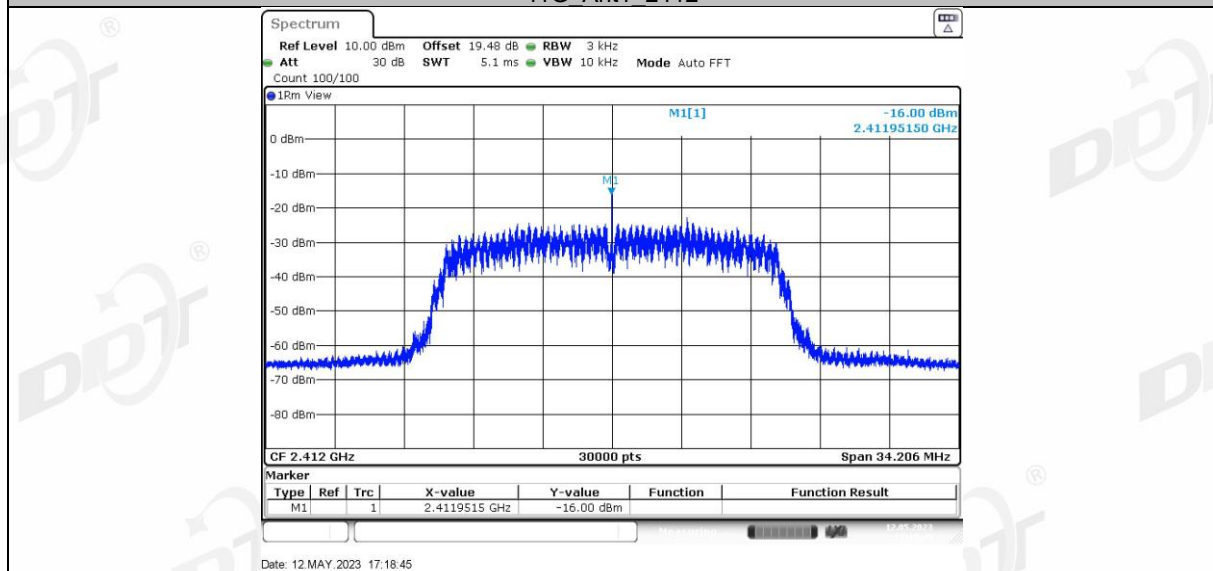
Note: The Duty Cycle Factor is compensated in the graph.

7.5. Test graphs

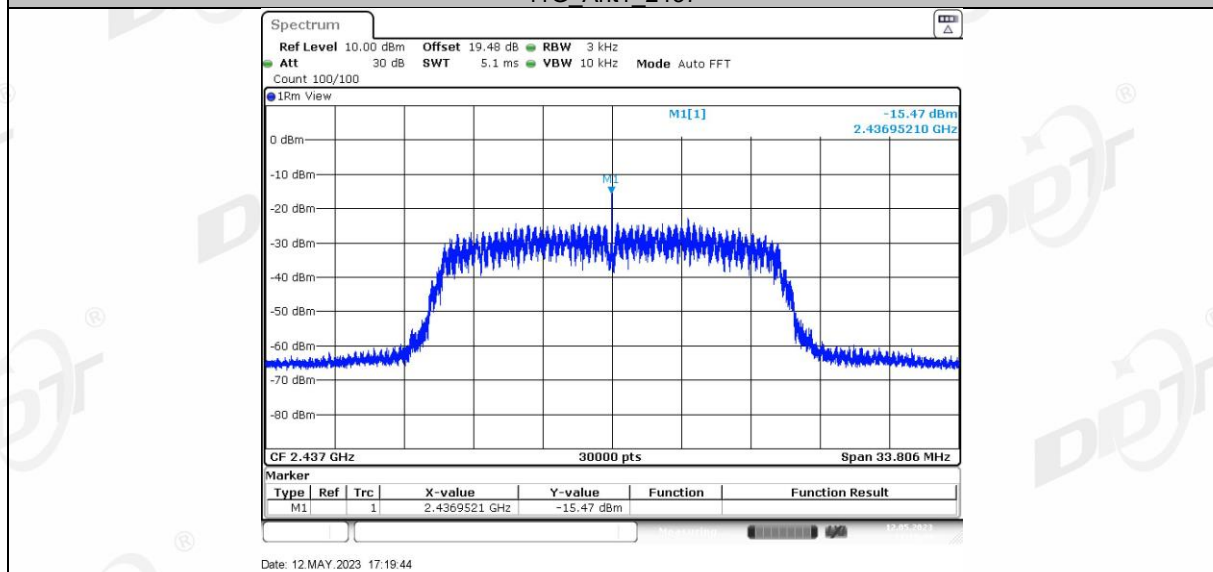




11G Ant1 2412



11G Ant1 2437



11G Ant1 2462