Certificate # 2951.01

TEST REPORT

Applicant:	BRANCH OF LONG THUY - LT COMPANY LIMITED
Address:	Hamlet 2, Tan Trach Commune, Can Duoc District, Long An, Long An, Vietnam

Manufacturer or Supplier	BRANCH OF LONG THUY - LT COMPANY LIMITED
Address	Hamlet 2, Tan Trach Commune, Can Duoc District, Long An, Long An, Vietnam
Product:	Toy RC Flip Stunt Rally
Brand Name:	Sharper Image
Model:	1012326
Additional Model & Model Difference	1018083, 1015630, 1017340, 1014469, 1015629, 1012370, 1011809, 1012369, 1013694, 101XXXX (where XXXX can be digits 0000-9999 which represent different customers), see item 3.1
Date of tests:	Mar. 03, 2025 ~ Mar. 06, 2025

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

☒ **FCC Part 15, Subpart C, Section 15.249**

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

Prepared by Loren Luo Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Mar. 26, 2025

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2502WDG0203	Original release	Mar. 26, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
§15.203	Antenna Requirement	PASS	No antenna connector is used
§15.207 (a)	Conducted Emission	N/A	Powered from battery
§15.205	Restricted Band of Operation	PASS	Compliant
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant
§15.215(c)	20dB Bandwidth Test	PASS	Compliant

2 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	3.02dB
	30MHz ~ 1GMHz	4.00dB
	1GHz ~ 18GHz	4.90dB
	18GHz ~ 40GHz	4.10dB

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Toy RC Flip Stunt Rally
MODEL NO.	1012326
ADDITIONAL MODEL	1018083, 1015630, 1017340, 1014469, 1015629, 1012370, 1011809, 1012369, 1013694, 101XXXX (where XXXX can be digits 0000-9999 which represent different customers)
FCC ID	2BMHW2025BB24GT
NOMINAL VOLTAGE	DC 9V(9V*6F22*1) from battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2407MHz ~ 2477MHz
ANTENNA TYPE	Wire Antenna, with 0dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2502WDG0203) for detailed product photo.
4. Additional models (see above table) are identical with the test model 1012326 except the color of the appearance and model number for trading purpose.

3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	BW	
A	√	√	-	√	DC 9V from New Battery

Where **RE<1G:** Radiated Emission below 1GHz **RE≥1G:** Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **BW:** 20db bandwidth

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

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

TESTED CHANNEL	TESTED FREQUENCY
Low	2407 MHz
Middle	2442 MHz
High	2477 MHz

Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	**2407**	13	2432	25	2465
2	2409	14	2435	26	2466
3	2410	15	2436	27	2467
4	2412	16	2438	28	2468
5	2413	17	2439	29	2469
6	2416	**18**	**2442**	30	2470
7	2418	19	2452	31	2471
8	2421	20	2453	32	2472
9	2422	21	2455	33	2473
10	2428	22	2462	34	2476
11	2429	23	2463	**35**	**2477**
12	2431	24	2464		

Note: The more detailed channel, please refer to the product specifications

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 55%RH	DC 9V from New Battery	Ryker
BW	25deg. C, 55%RH	DC 9V from New Battery	Ryker
PLC	-	-	-

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C, Section 15.249

ANSI C63.10-2013

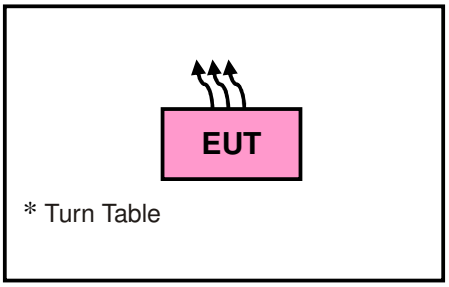
All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units

3.5 CONFIGURATION OF SYSTEM UNDER TEST

RADIATED EMISSION TEST:



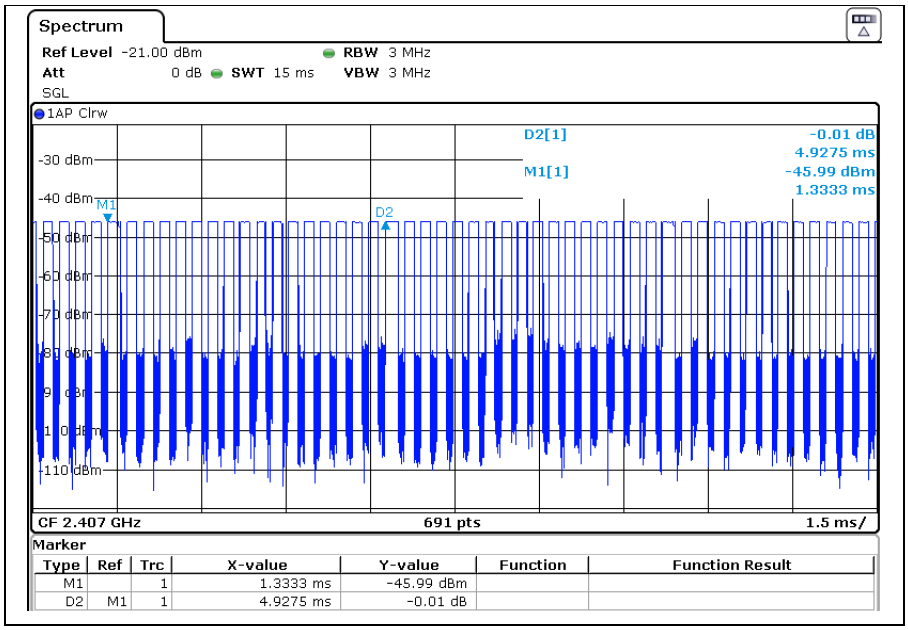
3.6 DUTY CYCLE OF TESET SIGNAL

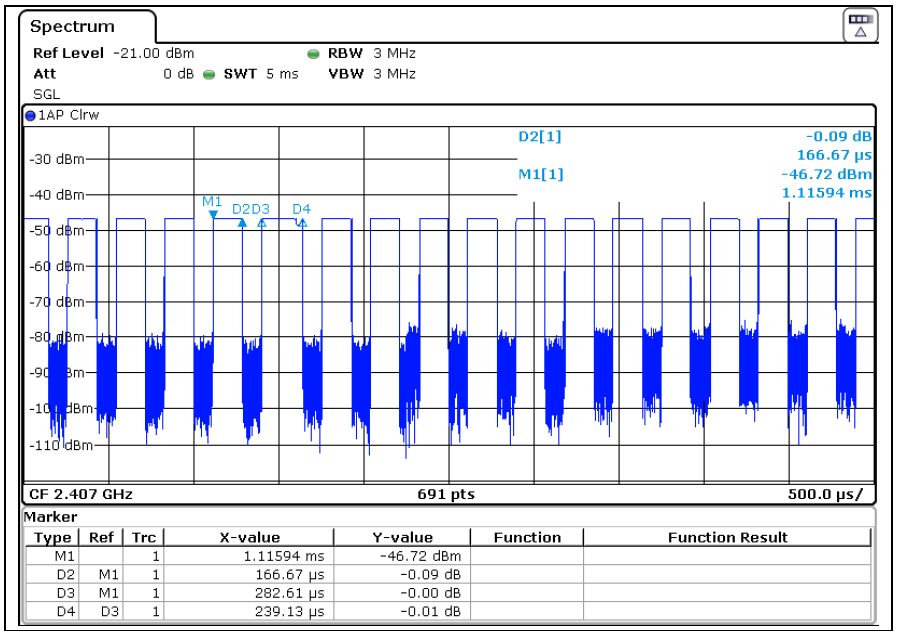
Tp =4.9275ms

Ton = Ton1 * Number+ Ton2 * Number =0.23913*1+0.16667*16≈2.90585ms

Duty Cycle = Ton / Tp * 100% = 2.90585/4.9275≈ 58.97%

AV factor=20 log (Duty cycle) = 20 log (58.97%%) ≈ -4.59dB





4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTES:

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

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV3044	101326	July 09, 25
EMI Test Receiver	Rohde&Schwarz	ESU8	100372	Apr. 16, 25
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 07, 25
Pre-Amplifier	Agilent	8447D	2944A10488	July. 23, 25
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 25
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	July 02, 25
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240036	Apr. 20, 25
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Oct. 16, 25
Pre-Amplifier (1GHz-18GHz)	Rohde&Schwarz	SCU18	102265	July. 23, 25
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Nov. 28, 25
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	July 02, 25

NOTES:

1. The test was performed in 966 Chamber-3.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.
4. The FCC Site Registration No. is 749762. Designation Number: CN1174.
5. Test site: No. 122, Houjie Avenue West Houjie Town, Dongguan City Guangdong Province, 523960, People's Republic of China.

4.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1.3m above the ground.

g. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTES:

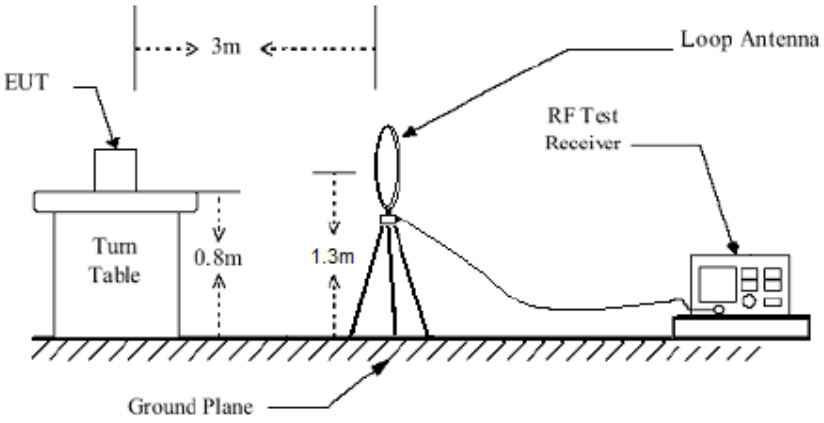
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Average value =PK Emission +AV Factor.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

4.1.4 DEVIATION FROM TEST STANDARD

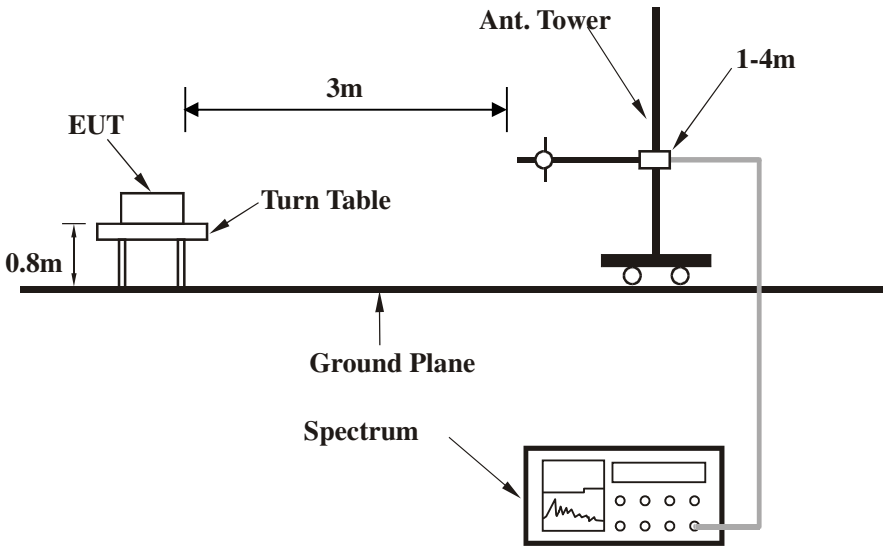
No deviation.

4.1.5 TEST SETUP

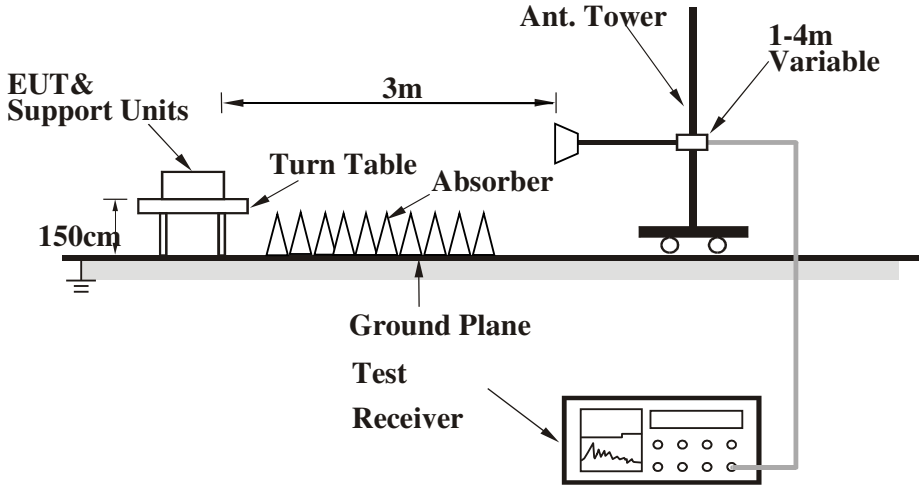
Below 30MHz test setup



Below 1GHz test setup



Above 1GHz test setup



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

4.1.6 EUT OPERATING CONDITIONS

a) Turned on the power of all equipment.

b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

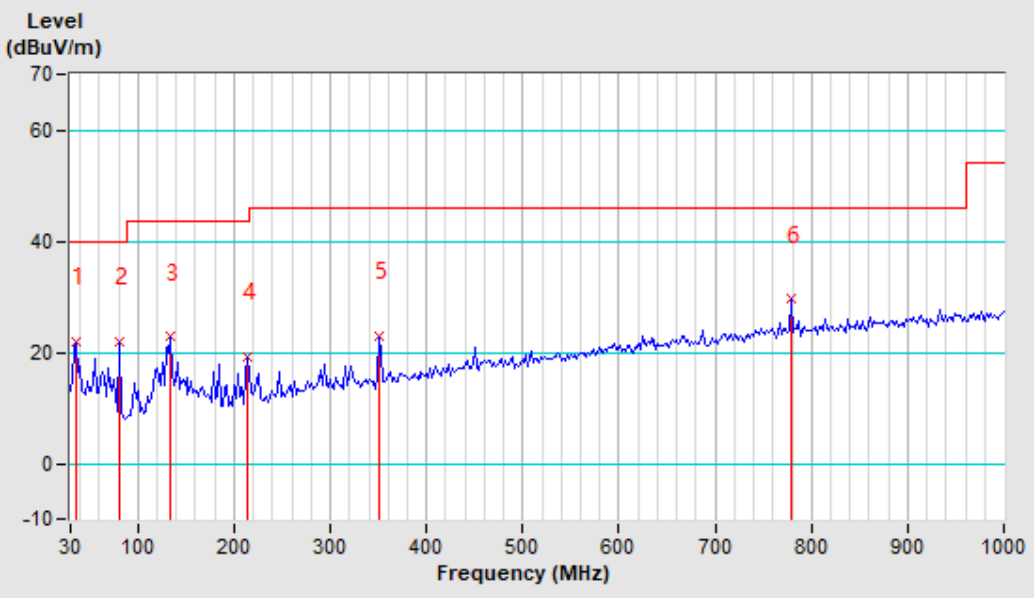
BELOW 1GHz WORST-CASE DATA

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.82	21.92 QP	40.00	-18.08	1.11 H	66	37.16	-15.24
2	80.44	21.84 QP	40.00	-18.16	2.00 H	130	40.44	-18.60
3	132.82	22.77 QP	43.50	-20.73	3.34 H	307	37.70	-14.93
4	214.30	19.21 QP	43.50	-24.29	1.26 H	18	34.84	-15.63
5	350.10	23.01 QP	46.00	-22.99	2.63 H	207	34.38	-11.37
6	**778.84**	**29.54 QP**	**46.00**	**-16.46**	**3.34 H**	**155**	**32.56**	**-3.02**

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.

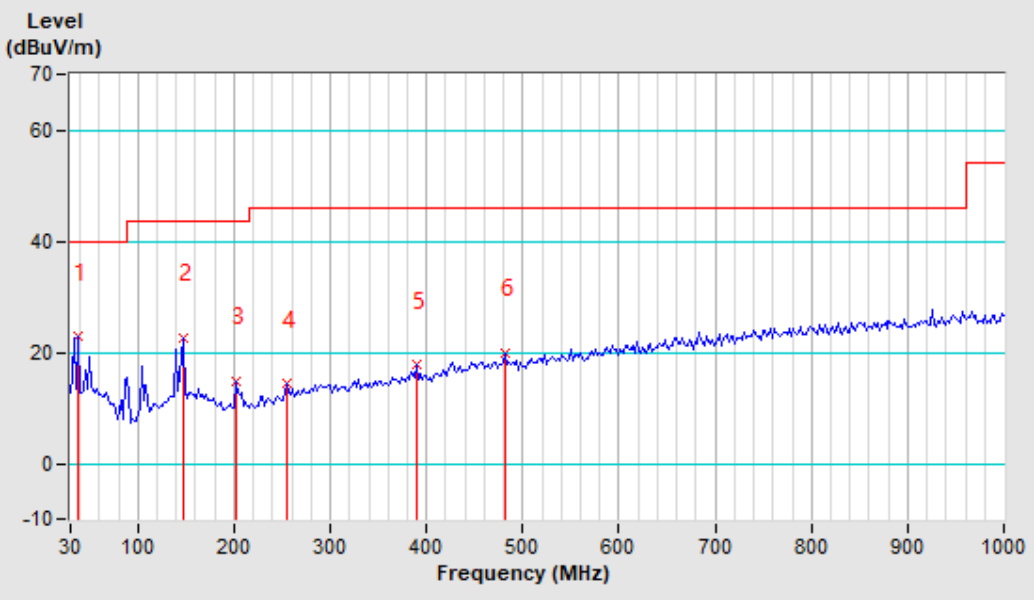


CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.76	22.77 QP	40.00	-17.23	1.77 V	168	37.88	-15.11
2	146.40	22.49 QP	43.50	-21.01	2.12 V	55	36.18	-13.69
3	202.66	14.90 QP	43.50	-28.60	2.68 V	173	31.05	-16.15
4	255.04	14.27 QP	46.00	-31.73	3.18 V	67	28.08	-13.81
5	388.90	17.68 QP	46.00	-28.32	2.11 V	347	28.35	-10.67
6	482.02	19.82 QP	46.00	-26.18	1.20 V	156	28.62	-8.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.



ABOVE 1GHz WORST-CASE DATA:

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

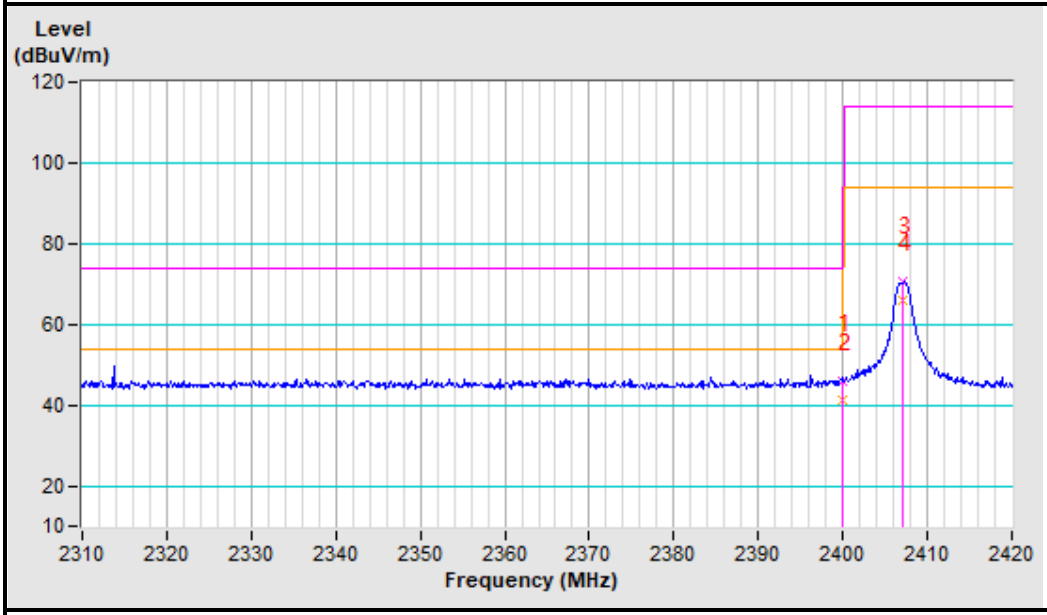
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	45.90 PK	74.00	-28.10	1.20 H	240	50.10	-4.20
2	2400.00	41.31 AV	54.00	-12.69	1.20 H	240	45.51	-4.20
3	*2407.00	70.43 PK	114.00	-43.57	1.20 H	240	74.63	-4.20
4	*2407.00	65.84 AV	94.00	-28.16	1.20 H	240	70.04	-4.20
5	4814.00	50.79 PK	74.00	-23.21	1.74 H	284	53.08	-2.29
6	4814.00	46.20 AV	54.00	-7.80	1.74 H	284	48.49	-2.29
7	7221.00	52.15 PK	74.00	-21.85	1.03 H	124	52.00	0.15
8	7221.00	47.56 AV	54.00	-6.44	1.03 H	124	47.41	0.15
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	46.84 PK	74.00	-27.16	1.00 V	150	51.04	-4.20
2	2400.00	42.25 AV	54.00	-11.75	1.00 V	150	46.45	-4.20
3	*2407.00	73.17 PK	114.00	-40.83	1.00 V	150	77.37	-4.20
4	*2407.00	68.58 AV	94.00	-25.42	1.00 V	150	72.78	-4.20
5	4814.00	49.47 PK	74.00	-24.53	1.05 V	350	51.76	-2.29
6	4814.00	44.88 AV	54.00	-9.12	1.05 V	350	47.17	-2.29
7	7221.00	51.74 PK	74.00	-22.26	1.30 V	247	51.59	0.15
8	7221.00	47.15 AV	54.00	-6.85	1.30 V	247	47.00	0.15

REMARK:

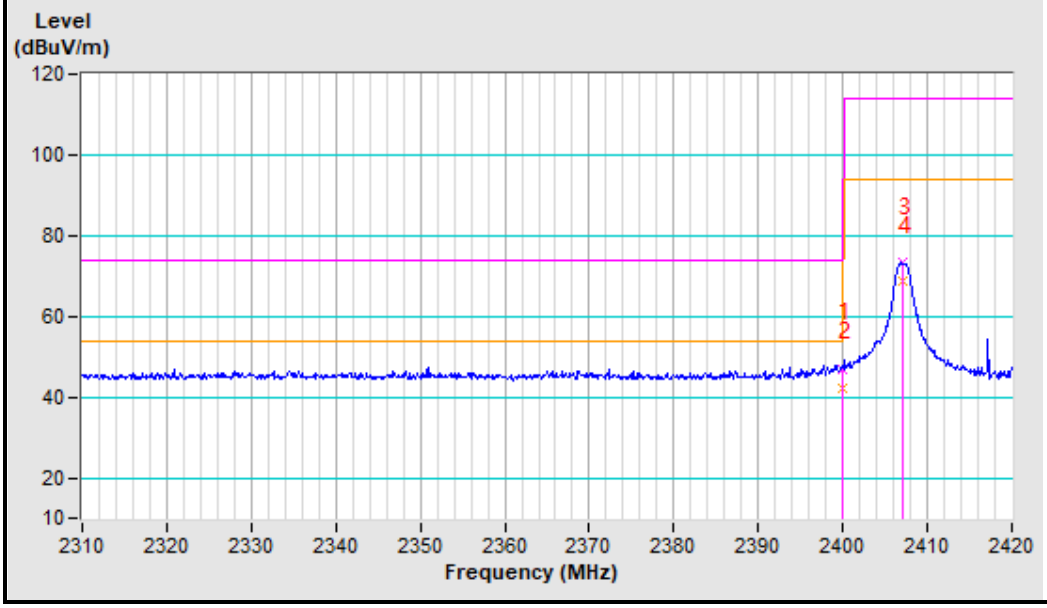
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (58.97%%) ≈ -4.59dB, Please see page 8 for plotted duty.

Band edge Plot

2407MHz Horizontal



2407MHz Vertical



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

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2442.00	71.20 PK	114.00	-42.80	1.40 H	320	75.41	-4.21
2	*2442.00	66.61 AV	94.00	-27.39	1.40 H	320	70.82	-4.21
3	4884.00	52.82 PK	74.00	-21.18	1.09 H	231	55.17	-2.35
4	**4884.00**	**48.23 AV**	**54.00**	**-5.77**	**1.09 H**	**231**	**50.58**	**-2.35**
5	7326.00	51.54 PK	74.00	-22.46	1.05 H	165	51.41	0.13
6	7326.00	46.95 AV	54.00	-7.05	1.05 H	165	46.82	0.13
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2442.00	72.28 PK	114.00	-41.72	1.32 V	154	76.49	-4.21
2	*2442.00	67.69 AV	94.00	-26.31	1.32 V	154	71.90	-4.21
3	4884.00	49.85 PK	74.00	-24.15	1.07 V	243	52.20	-2.35
4	4884.00	45.26 AV	54.00	-8.74	1.07 V	243	47.61	-2.35
5	7326.00	51.81 PK	74.00	-22.19	1.43 V	210	51.68	0.13
6	7326.00	47.22 AV	54.00	-6.78	1.43 V	210	47.09	0.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (58.97%%) ≈ -4.59dB, Please see page 8 for plotted duty.

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

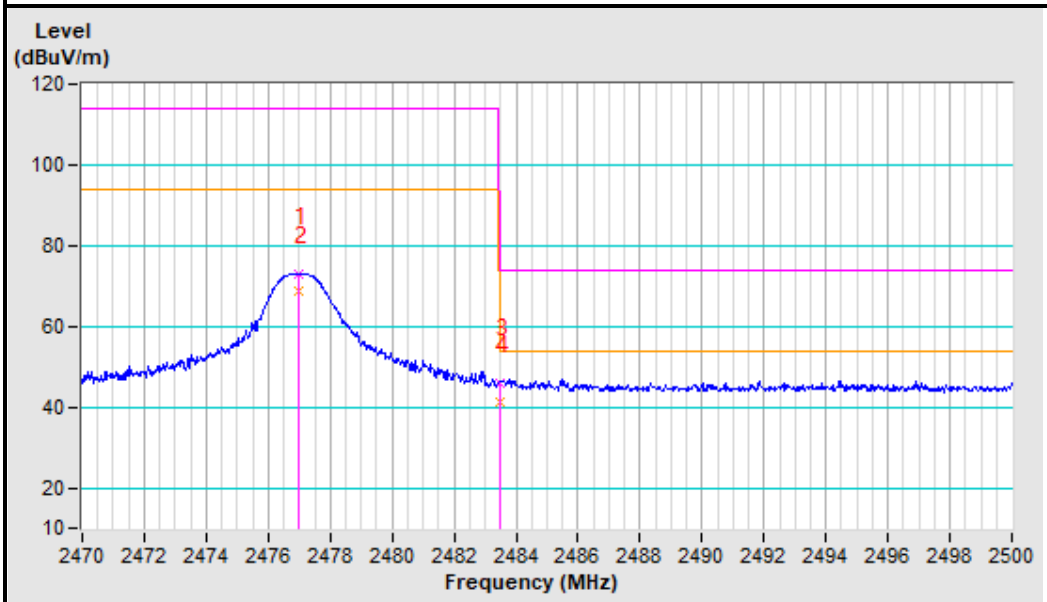
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2477.00	73.12 PK	114.00	-40.88	1.78 H	146	77.35	-4.23
2	*2477.00	68.53 AV	94.00	-25.47	1.78 H	146	72.76	-4.23
3	2483.50	45.78 PK	74.00	-28.22	1.05 H	214	50.01	-4.23
4	2483.50	41.19 AV	54.00	-12.81	1.05 H	214	45.42	-4.23
5	4954.00	50.27 PK	74.00	-23.73	1.47 H	232	52.69	-2.42
6	4954.00	45.68 AV	54.00	-8.32	1.47 H	232	48.10	-2.42
7	7431.00	52.07 PK	74.00	-21.93	1.68 H	274	51.97	0.10
8	7431.00	47.48 AV	54.00	-6.52	1.68 H	274	47.38	0.10
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2477.00	72.96 PK	114.00	-41.04	1.21 V	145	77.19	-4.23
2	*2477.00	68.37 AV	94.00	-25.63	1.21 V	145	72.60	-4.23
3	2483.50	47.00 PK	74.00	-27.00	1.45 V	210	51.23	-4.23
4	2483.50	42.41 AV	54.00	-11.59	1.45 V	210	46.64	-4.23
5	4954.00	48.66 PK	74.00	-25.34	1.09 V	122	51.08	-2.42
6	4954.00	44.07 AV	54.00	-9.93	1.09 V	122	46.49	-2.42
7	7431.00	51.93 PK	74.00	-22.07	1.08 V	217	51.83	0.10
8	7431.00	47.34 AV	54.00	-6.66	1.08 V	217	47.24	0.10

REMARK:

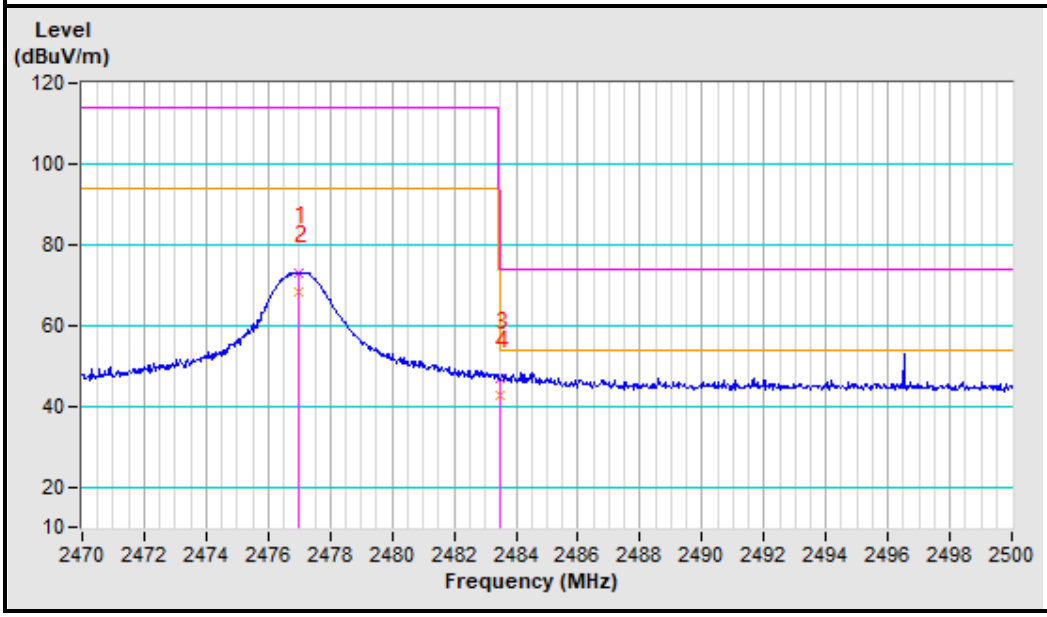
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (58.97%%) ≈ -4.59dB, Please see page 8 for plotted duty.

Band edge Plot

2477MHz Horizontal



2477MHz Vertical



4.2 20dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 25
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

4.2.3 TEST PROCEDURE

a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

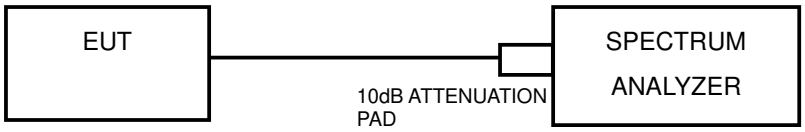
c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

d. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

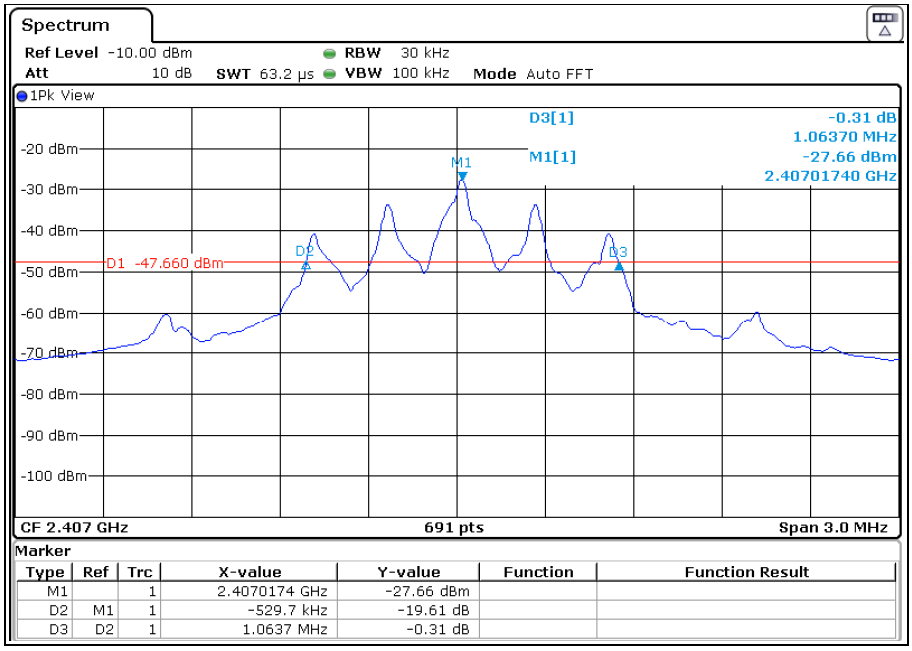
a) Turned on the power of all equipment.

b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

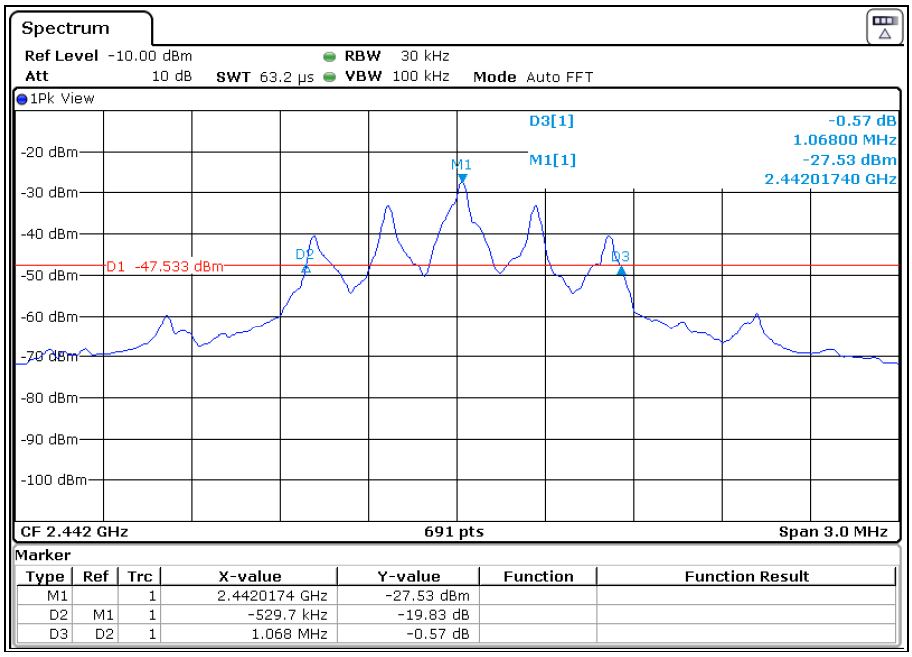
4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2407	1.0637
Middle	2442	1.0680
High	2477	1.0680

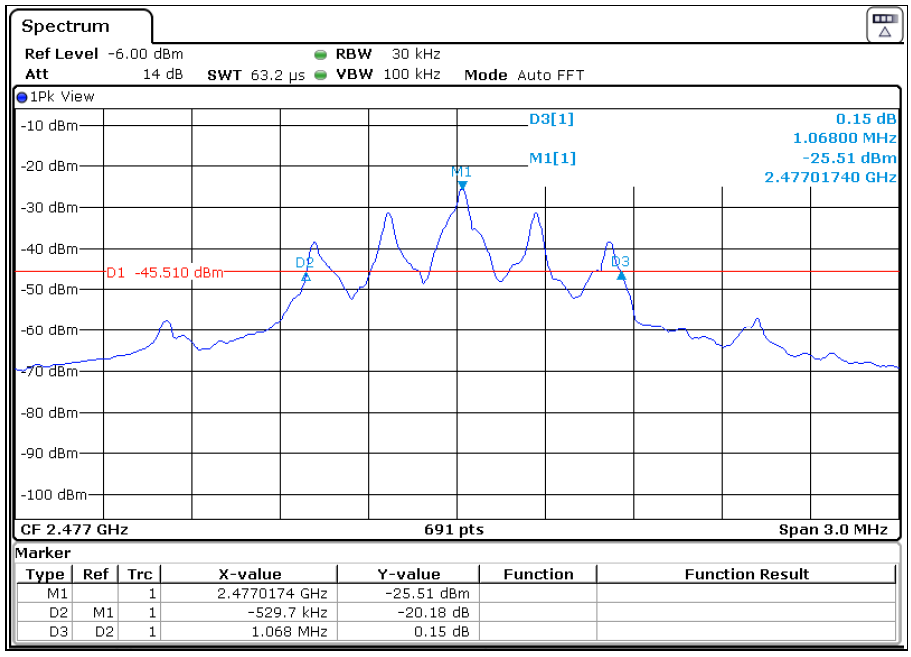
Test Data: Low channel



Test Data: Middle channel



Test Data: High channel



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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

No any modifications are made to the EUT by the lab during the test.

---END---