

# TEST REPORT



Applicant:	JADA TOYS CO. LTD.
Address:	Unit 318, 12/F, Tower A, New Mandarin Plaza, No.14 Science Museum Road, TST East, Kowloon, HK.

Manufacturer or Supplier	JADA TOYS CO. LTD.
Address	Unit 318, 12/F, Tower A, New Mandarin Plaza, No.14 Science Museum Road, TST East, Kowloon, HK.
Product:	Hollywood Rides 1/55 RC
Additional Products	FF 1/55 RC, 1970 Dodge Charger RC Vehicle, 1995 Toyota Supra RC Vehicle, 1982 Pontiac Trans AM (Knight Rider) RC Vehicle
Brand Name:	JADA
Model:	85100
Additional Model & Model Difference	33733, 33734, 33989, 253202009, 253202010, 253252021, JDTX2411, JDRX2419; see item 2.1
Date of tests:	Feb. 22, 2022 ~ Mar. 01, 2022

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**

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Mar. 12, 2022

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Test Report No.: RF2202WDG0072

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2202WDG0072	Original release	Mar. 12, 2022

## 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	2.66dB
	30MHz ~ 1GMHz	4.06dB
	1GHz ~ 18GHz	4.90dB
	18GHz ~ 40GHz	4.58dB

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

<b>PRODUCT</b>	Hollywood Rides 1/55 RC
<b>ADDITIONAL PRODUCTS</b>	FF 1/55 RC, 1970 Dodge Charger RC Vehicle, 1995 Toyota Supra RC Vehicle, 1982 Pontiac Trans AM (Knight Rider) RC Vehicle
<b>MODEL NO.</b>	85100
<b>ADDITIONAL MODELS</b>	33733, 33734, 33989, 253202009, 253202010, 253252021, JDTX2411, JDRX2419
<b>FCC ID</b>	PWYJT24TX99043
<b>NOMINAL VOLTAGE</b>	Remote Control : DC 3V(1.5V*AA*2) from battery
<b>MODULATION TECHNOLOGY</b>	GFSK
<b>OPERATING FREQUENCY</b>	2411MHz -2472MHz
<b>ANTENNA TYPE</b>	Wire Antenna, with 0dBi gain
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	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.: 2202WDG0072) for detailed product photo.
4. Additional models (see above table) are identical with the test model 85100 except the appearance, trade name and model no. 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 3V from New Battery

Where **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission

**RE≥1G**: Radiated Emission above 1GHz  
**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	2411 MHz
Middle	2441 MHz
High	2472 MHz

#### Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2411	12	2443
2	2413	13	2445
3	2420	14	2451
4	2422	15	2453
5	2424	16	2455
6	2426	17	2457
7	2428	18	2461
8	2435	19	2468
9	2437	20	2470
10	2439	21	2472
11	2441		

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



**BUREAU  
VERITAS**

Test Report No.: RF2202WDG0072

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 55%RH	DC 3V from Battery	Ray
BW	25deg. C, 56%RH	DC 3V from Battery	Vincent
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



## 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.

**NOTE:**

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	FSV40-N	101817	July 04, 22
Bilog Antenna	SCHWARZBECK	VULB 9168	01281	July 30, 22
Pre-Amplifier	Agilent	8447D	2944A10488	Aug.08, 22
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 24
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	Aug.08, 22
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240041	July 22, 22
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Dec. 25, 22
Pre-Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV 9718C	00142	Aug. 06, 22
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Nov. 16, 22
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	Aug.08, 22

- NOTES:**
1. The test was performed at 966 Chamber-3 (Baodun).
  2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  3. The FCC Site Registration No. is 749762.

#### 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 1m 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.

**NOTE:**

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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
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.

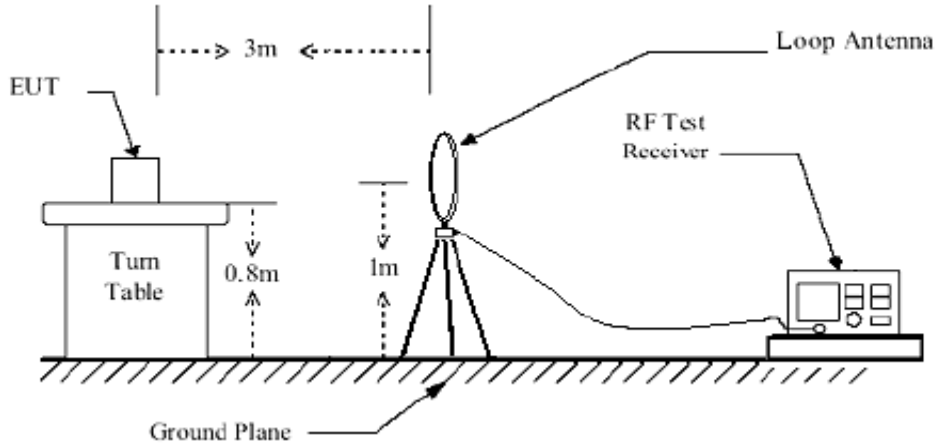
#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

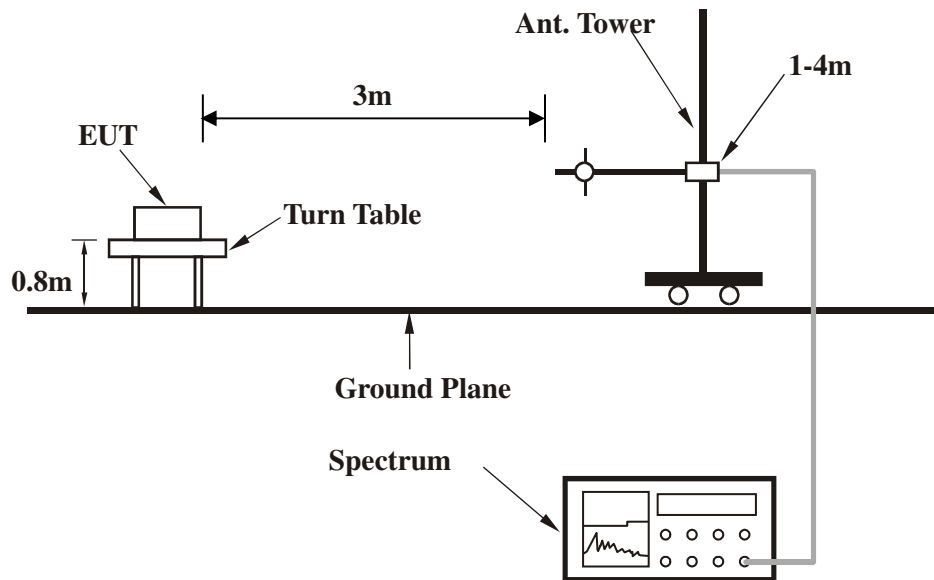


### 4.1.5 TEST SETUP

#### Below 30MHz test setup

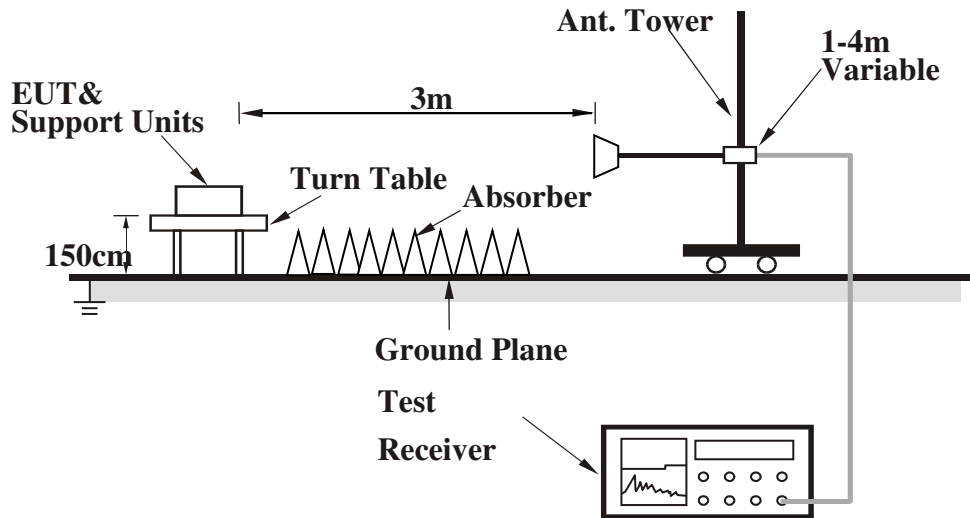


#### Below 1GHz test setup





## 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

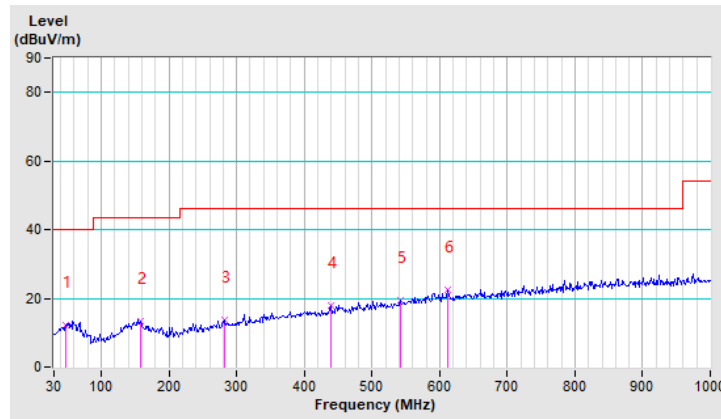
#### BELOW 1GHz WORST-CASE DATA

<b>CHANNEL</b>	TX Middle Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	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	46.87	12.33 QP	40.00	-27.67	1.00 H	102	26.64	-14.31
2	157.93	13.31 QP	43.50	-30.19	1.00 H	230	26.82	-13.51
3	283.04	13.54 QP	46.00	-32.46	1.00 H	125	26.34	-12.80
4	439.09	17.92 QP	46.00	-28.08	1.00 H	325	27.98	-10.06
5	541.71	19.53 QP	46.00	-26.47	1.00 H	25	27.70	-8.17
6	612.00	22.38 QP	46.00	-23.62	1.00 H	156	28.76	-6.38

#### 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.



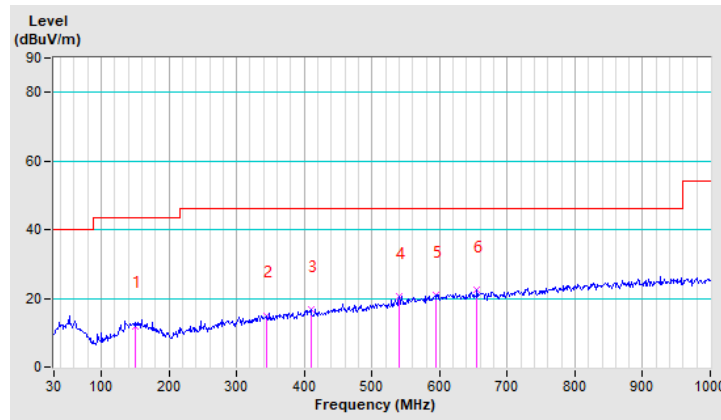


<b>CHANNEL</b>	TX Middle Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	9KHz ~ 1GHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
<b>NO.</b>	<b>FREQ. (MHz)</b>	<b>EMISSION LEVEL (dBuV/m)</b>	<b>LIMIT (dBuV/m)</b>	<b>MARGIN (dB)</b>	<b>ANTENNA HEIGHT (m)</b>	<b>TABLE ANGLE (Degree)</b>	<b>RAW VALUE (dBuV)</b>	<b>CORRECTION FACTOR (dB/m)</b>
1	150.90	12.00 QP	43.50	-31.50	1.00 V	25	25.66	-13.66
2	344.90	15.03 QP	46.00	-30.97	1.00 V	102	26.62	-11.59
3	409.57	16.80 QP	46.00	-29.20	1.00 V	221	27.35	-10.55
4	540.30	20.74 QP	46.00	-25.26	1.00 V	235	28.94	-8.20
5	593.72	20.89 QP	46.00	-25.11	1.00 V	146	27.59	-6.70
<b>6</b>	<b>655.58</b>	<b>22.43 QP</b>	<b>46.00</b>	<b>-23.57</b>	<b>1.00 V</b>	<b>186</b>	<b>28.34</b>	<b>-5.91</b>

**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:

<b>CHANNEL</b>	TX Low Channel	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	57.71 PK	74.00	-26.29	1.00 H	205	57.14	0.57
2	#2400.00	40.03 AV	54.00	-13.97	1.00 H	205	39.46	0.57
3	#2411.00	91.26 PK	114.00	-22.74	1.00 H	205	90.64	0.62
4	#2411.00	72.58 AV	94.00	-21.42	1.00 H	205	72.58	0.62
5	4822.00	52.03 PK	74.00	-21.97	1.00 H	142	46.70	5.33
6	4822.00	34.35 AV	54.00	-19.65	1.00 H	142	29.02	5.33
7	#7233.00	53.41 PK	74.00	-20.59	1.00 H	57	43.69	9.72
8	#7233.00	36.13 AV	54.00	-17.87	1.00 H	57	26.41	9.72

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	60.44 PK	74.00	-13.56	1.00 V	205	59.87	0.57
2	#2400.00	42.76 AV	54.00	-11.24	1.00 V	205	42.19	0.57
3	#2411.00	93.54 PK	114.00	-20.46	1.00 V	205	92.92	0.62
4	#2411.00	75.86 AV	94.00	-18.14	1.00 V	205	75.24	0.62
5	4822.00	52.62 PK	74.00	-21.38	1.00 V	12	47.29	5.33
6	4822.00	34.94 AV	54.00	-19.06	1.00 V	12	29.61	5.33
7	#7233.00	53.74 PK	74.00	-20.26	1.00 V	69	44.02	9.72
8	#7233.00	36.46 AV	54.00	-17.54	1.00 V	69	26.74	9.72

REMARKS:

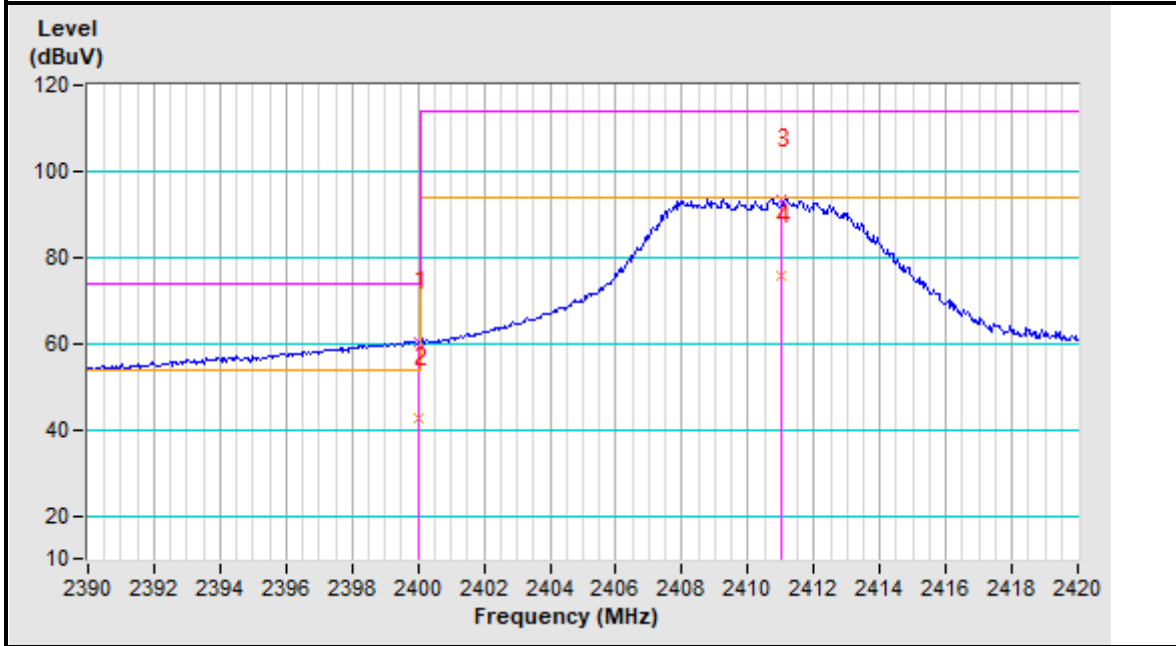
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.



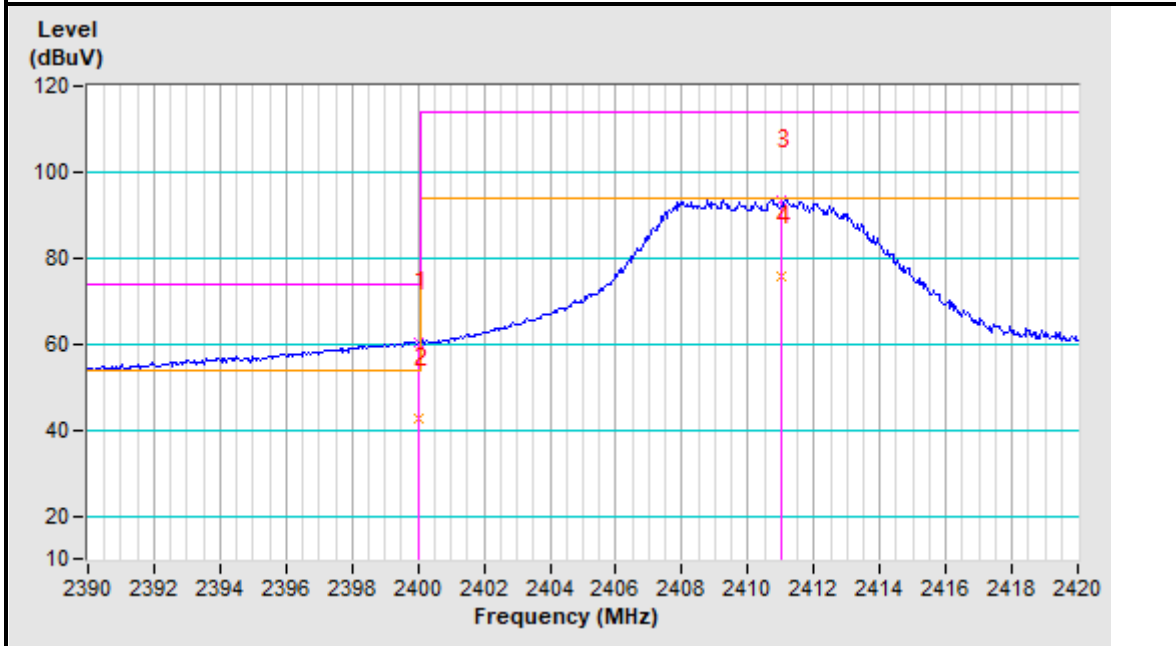


### Band edge Plot

#### 2411MHz Horizontal



#### 2411MHz Vertical





<b>CHANNEL</b>	TX Middle Channel	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	2441.00	92.21 PK	114.00	-21.79	1.00 H	69	91.48	0.73
2	2441.00	74.53 AV	94.00	-19.47	1.00 H	69	73.80	0.73
3	4882.00	51.44 PK	74.00	-22.56	1.05 H	106	46.05	5.39
4	4882.00	33.76 AV	54.00	-20.24	1.05 H	106	28.37	5.39
5	7323.00	52.33 PK	74.00	-21.67	1.04 H	208	42.55	9.78
6	7323.00	35.05 AV	54.00	-18.95	1.04 H	208	25.27	9.78
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	2441.00	94.93 PK	114.00	-19.07	1.04 V	108	94.20	0.73
2	2441.00	77.25 AV	94.00	-16.75	1.04 V	108	76.52	0.73
3	4882.00	51.69 PK	74.00	-22.31	1.00 V	59	46.30	5.39
4	4882.00	34.01 AV	54.00	-19.99	1.00 V	59	28.62	5.39
5	7323.00	52.76 PK	74.00	-21.24	1.06 V	67	42.98	9.78
6	7323.00	35.48 AV	54.00	-18.52	1.06 V	67	25.70	9.78

**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.



<b>CHANNEL</b>	TX High Channel	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#2472.00	92.46 PK	114.00	-21.54	1.00 H	42	91.61	0.85
2	#2472.00	74.78 AV	94.00	-19.22	1.00 H	42	73.93	0.85
3	2483.50	56.81 PK	74.00	-17.19	1.00 H	42	55.92	0.89
4	2483.50	39.13 AV	54.00	-14.87	1.00 H	42	38.24	0.89
5	4944.00	52.14 PK	74.00	-21.86	1.00 H	209	46.68	5.46
6	4944.00	34.56 AV	54.00	-19.44	1.00 H	209	29.10	5.46
7	7416.00	53.75 PK	74.00	-20.25	1.00 H	154	43.90	9.85
8	7416.00	36.47 AV	54.00	-17.53	1.00 H	154	26.62	9.85

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

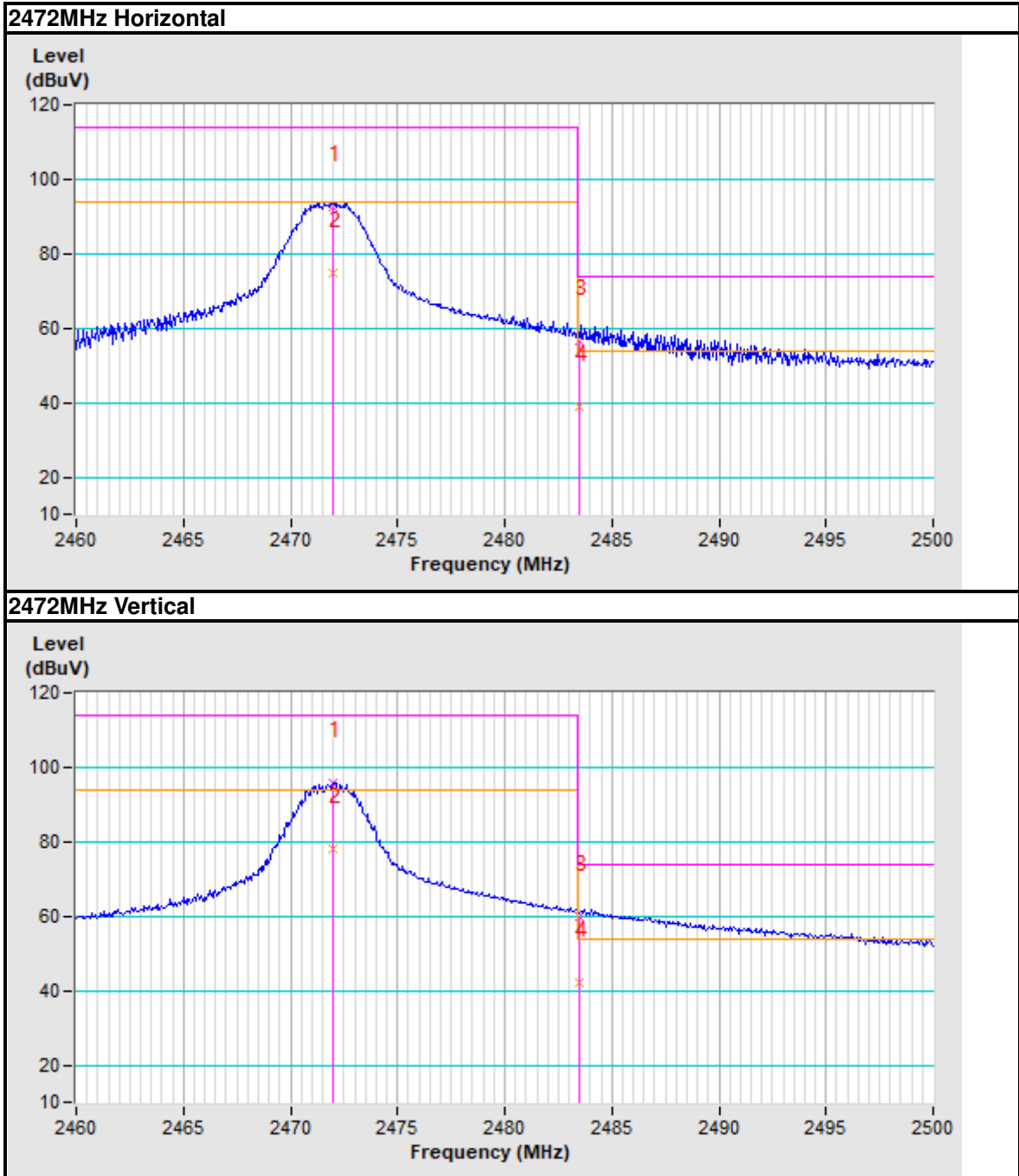
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#2472.00	95.66 PK	114.00	-18.34	1.08 V	207	94.81	0.85
2	#2472.00	77.98 AV	94.00	-16.02	1.08 V	207	77.13	0.85
3	2483.50	59.79 PK	74.00	-14.21	1.09 V	207	58.90	0.89
4	2483.50	42.11 AV	54.00	-11.89	1.09 V	207	41.22	0.89
5	4944.00	52.69 PK	74.00	-21.31	1.00 V	104	47.23	5.46
6	4944.00	35.01 AV	54.00	-18.99	1.00 V	104	29.55	5.46
7	7416.00	54.10 PK	74.00	-19.90	1.00 V	189	44.25	9.85
8	7416.00	36.82 AV	54.00	-17.18	1.00 V	189	26.97	9.85

**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.



Band edge Plot



## 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.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	101601	Nov. 21, 22
MXA signal analyzer	Agilent	N9020A	MY49100060	Apr. 06, 22
Network Analyzer	Agilent	8753ES	US39173518	Mar. 28, 22
Spectrum Analyzer	Rohde&Schwarz	FSV7	101574	July 04, 22
Frequency Analyzer	Keysight	N9010B	MY60240432	Nov. 25, 22
Programmable Temperature&Humidity Chamber	Hongjin	HYC-TH-225DH	DG-180746	Feb. 16, 23
DC Source	Agilent	E3640A	MY40004013	Feb. 23, 23
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.4	N/A	N/A

#### NOTES:

1. The test was performed in RF Test Shielded Room (Baodun).
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA

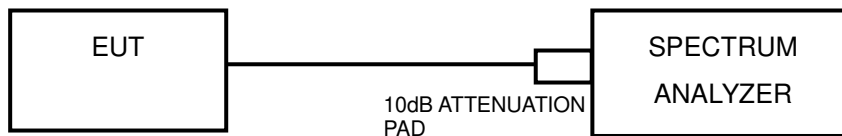
#### 4.2.3 TEST PROCEDURE

- 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



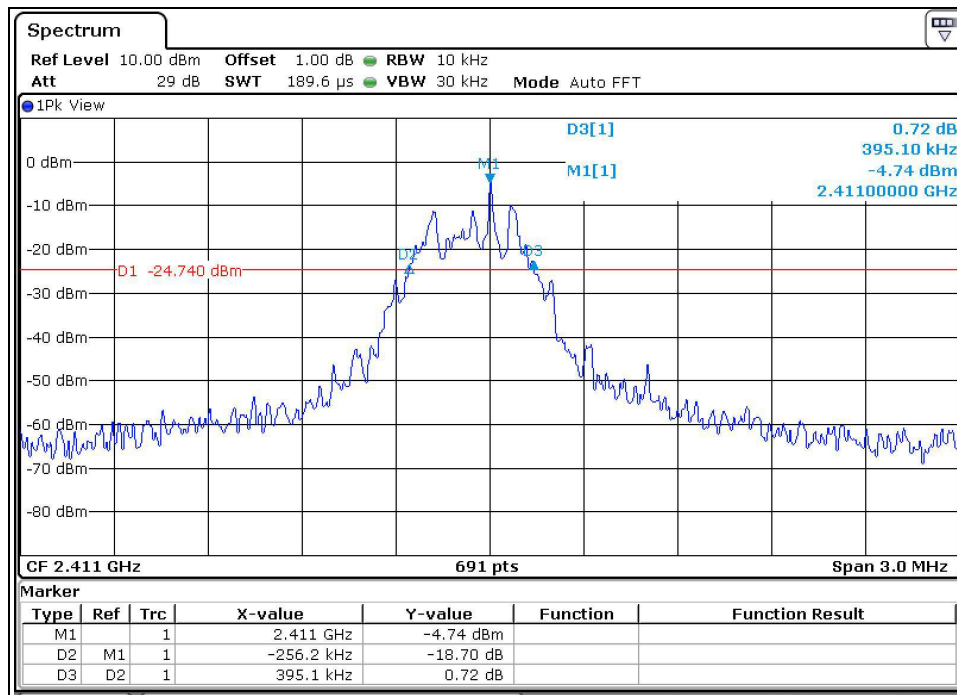
#### 4.2.6 EUT OPERATING CONDITIONS

- 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.

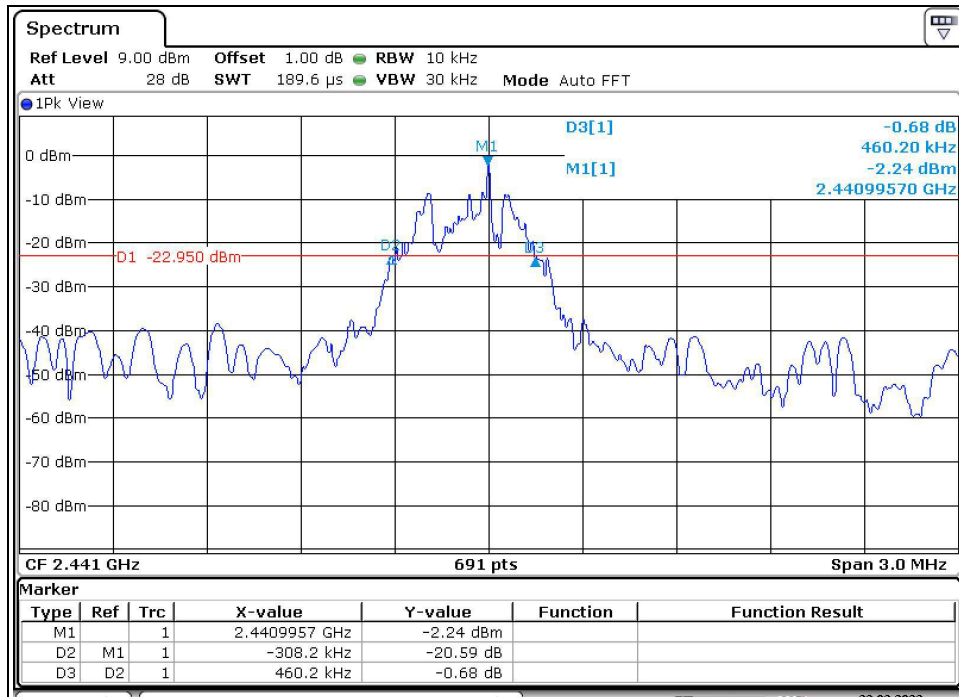
### 4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2411	0.395
Middle	2441	0.460
High	2472	0.469

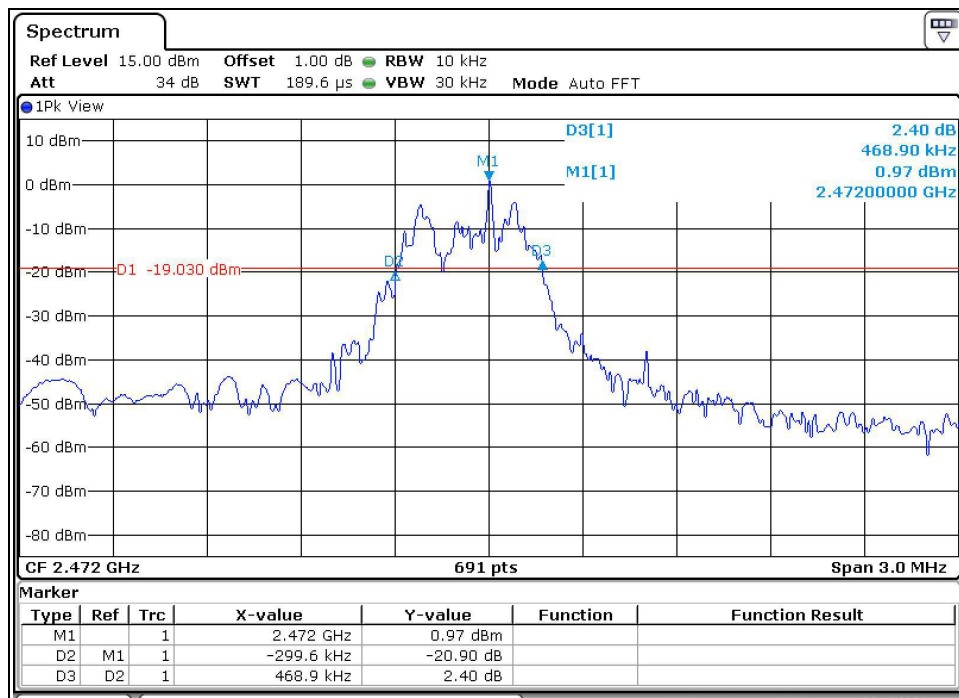
#### Test Data: Low channel



**Test Data: Middle channel**



**Test Data: High channel**







Test Report No.: RF2202WDG0072

## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



**BUREAU  
VERITAS**

Test Report No.: RF2202WDG0072

## **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---**