

TEST REPORT

Applicant:	DOUBLEEAGLE INDUSTRY (CHINA)LIMITED
Address:	XINGDA INDUSTRIAL PARK, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Manufacturer or Supplier	DOUBLEEAGLE INDUSTRY (CHINA)LIMITED
Address	XINGDA INDUSTRIAL PARK, CHENGHAI, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Product:	Remote control car series
Brand Name:	N/A
Model:	E568-003
Additional Model & Model Difference	E812-003, E821-003, E822-003, etc.; see item 3.1
Date of tests:	Mar. 15, 2025 ~ Mar. 25, 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 Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Apr. 21, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1 SUMMARY OF TEST RESULTS.....	4
2 MEASUREMENT UNCERTAINTY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF EUT.....	5
3.2 DESCRIPTION OF TEST MODES.....	5
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS.....	8
3.4 DESCRIPTION OF SUPPORT UNITS.....	8
3.5 DUTY CYCLE OF TESET SIGNAL	9
4. TEST TYPES AND RESULTS.....	10
4.1 RADIATED EMISSION MEASUREMENT	10
4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT	10
4.1.2 TEST INSTRUMENTS.....	11
4.1.3 TEST PROCEDURES	12
4.1.4 DEVIATION FROM TEST STANDARD	12
4.1.5 TEST SETUP.....	13
4.1.6 EUT OPERATING CONDITIONS	14
4.1.7 TEST RESULTS	15
4.2 20DB BANDWIDTH MEASUREMENT	22
4.2.1 LIMITS OF 20DB BANDWIDTH MEASUREMENT	22
4.2.2 TEST INSTRUMENTS	22
4.2.3 TEST PROCEDURE	23
4.2.4 DEVIATION FROM TEST STANDARD	23
4.2.5 TEST SETUP	23
4.2.6 EUT OPERATING CONDITIONS.....	23
4.2.7 TEST RESULTS.....	24
5. PHOTOGRAPHS OF THE TEST CONFIGURATION.....	26
6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	27

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2503WDG0072	Original release	Apr. 21, 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	+/- 2.48dB
	30MHz ~ 1GMHz	+/- 4.32dB
	1GHz ~ 18GHz	+/- 4.76dB
	18GHz ~ 40GHz	+/- 4.50dB

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	Remote control car series
MODEL NO.	E568-003
ADDITIONAL MODELS	E812-003, E821-003, E822-003, E823-003, E824-003, E825-003, E861-003, E862-003, E863-003
FCC ID	2AAFASY-E568-003-08
NOMINAL VOLTAGE	DC 3V (1.5V*AA*2) from battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2405MHz ~ 2475MHz
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.: 2503WDG0072) for detailed product photo.
4. Additional models (see above table) are identical with the test model E568-003 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 3V from 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	2405 MHz
Middle	2440 MHz
High	2475 MHz

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2405	25	2430	50	2455
1	2406	26	2431	51	2456
2	2407	27	2432	52	2457
3	2408	28	2433	53	2458
4	2409	29	2434	54	2459
5	2410	30	2435	55	2460
6	2411	31	2436	56	2461
7	2412	32	2437	57	2462
8	2413	33	2438	58	2463
9	2414	34	2439	59	2464
10	2415	35	2440	60	2465
11	2416	36	2441	61	2466
12	2417	37	2442	62	2467
13	2418	38	2443	63	2468
14	2419	39	2444	64	2469
15	2420	40	2445	65	2470
16	2421	41	2446	66	2471
17	2422	42	2447	67	2472
18	2423	43	2448	68	2473
19	2424	44	2449	69	2474
20	2425	45	2450	71	2475
21	2426	46	2451	/	/
22	2427	47	2452	/	/
23	2428	48	2453	/	/
24	2429	49	2454	/	/

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 3V from Battery	Ludius
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

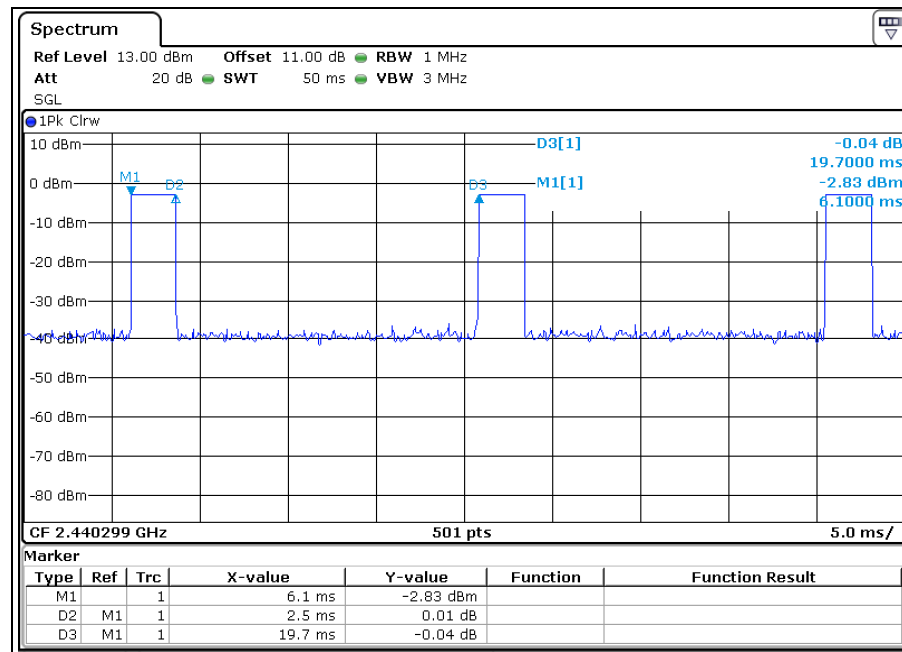
3.5 DUTY CYCLE OF TESET SIGNAL

$T_p = 19.7\text{ms}$

$T_{on} = 2.5\text{ms}$

$\text{Duty Cycle} = T_{on} / T_p * 100\% = 2.5 / 19.7 \approx 12.69\%$

$\text{AV factor} = 20 \log (\text{Duty cycle}) = 20\text{Log} (12.69\%) \approx -17.93\text{dB}$



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.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Oct. 10, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Apr. 07, 25
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 25
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Feb. 21, 26
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 25, 25
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	0085519	Oct. 19, 25
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Apr. 12, 25
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May. 20, 25
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 24, 25
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 28 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A

NOTES:

1. The test was performed in 966 Chamber.
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 above 1GHz if tested.
4. The FCC Site Registration No. is 749762. Designation Number: CN1174.

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:

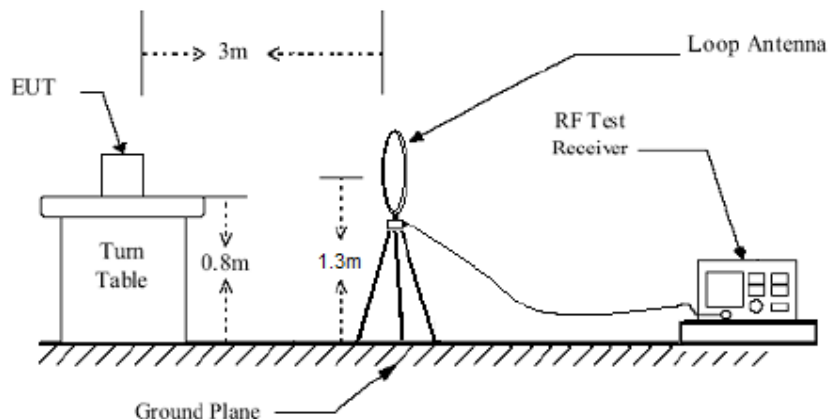
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Average value =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

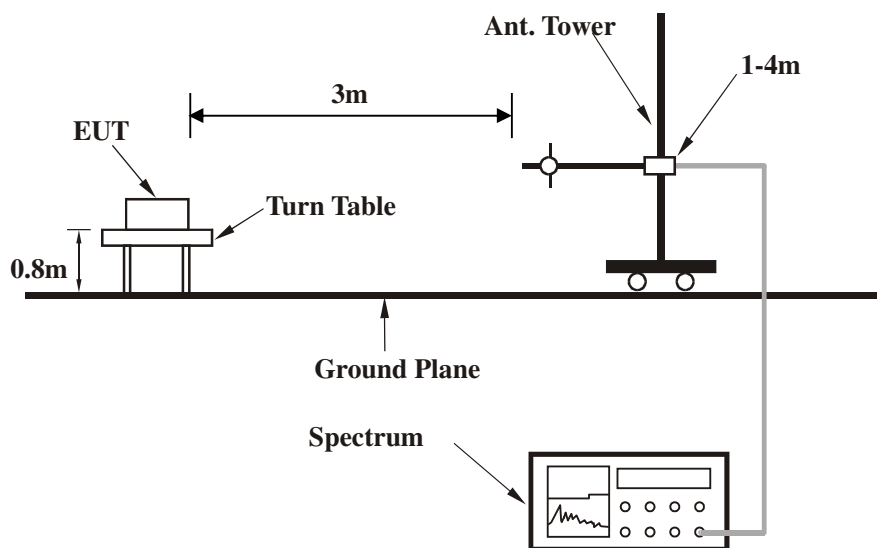
No deviation.

4.1.5 TEST SETUP

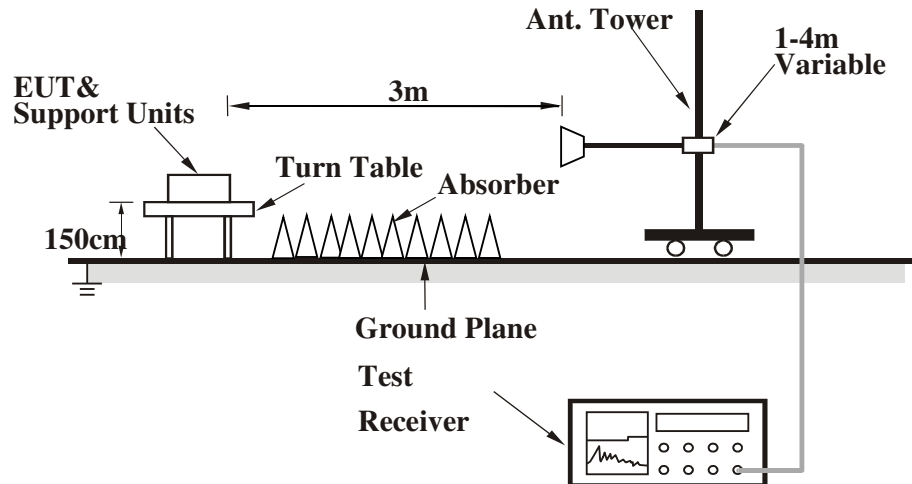
Below 30MHz test setup



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

- Turned on the power of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

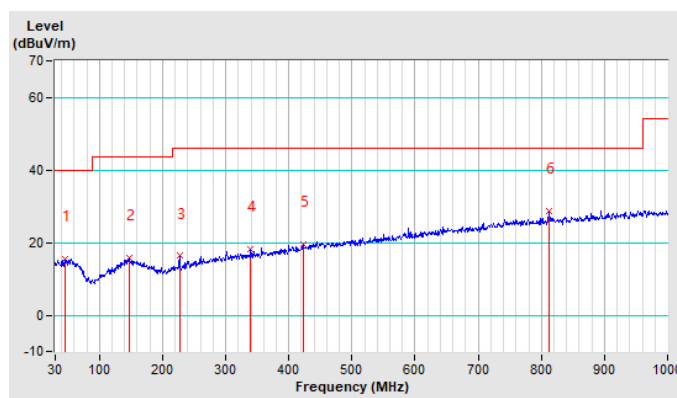
BELOW 1GHz WORST-CASE DATA

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	46.49	15.43 QP	40.00	-24.57	2.00 H	145	29.87	-14.44
2	146.40	15.77 QP	43.50	-27.73	1.54 H	39	29.46	-13.69
3	226.91	16.32 QP	46.00	-29.68	1.00 H	208	31.35	-15.03
4	339.43	18.09 QP	46.00	-27.91	1.76 H	48	29.59	-11.50
5	422.85	19.57 QP	46.00	-26.43	1.34 H	66	29.47	-9.90
6	812.79	28.61 QP	46.00	-17.39	1.97 H	102	31.17	-2.56

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.

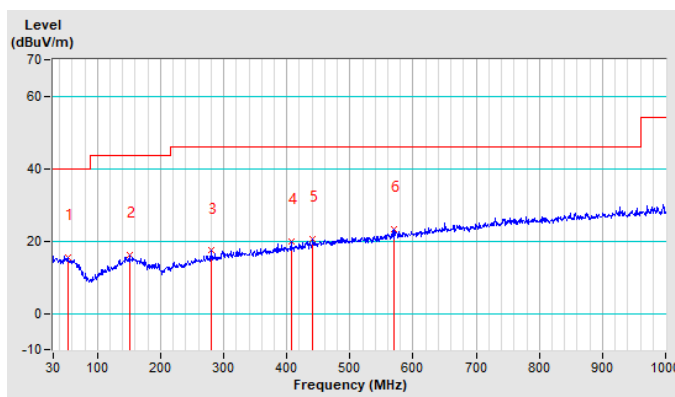


CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

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	53.28	15.47 QP	40.00	-24.53	1.00 V	116	29.70	-14.23
2	150.28	16.05 QP	43.50	-27.45	1.84 V	63	29.54	-13.49
3	280.26	17.30 QP	46.00	-28.70	1.59 V	172	30.01	-12.71
4	407.33	19.97 QP	46.00	-26.03	1.00 V	251	30.25	-10.28
5	441.28	20.50 QP	46.00	-25.50	1.04 V	37	29.90	-9.40
6	569.32	23.35 QP	46.00	-22.65	1.22 V	207	30.69	-7.34

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)

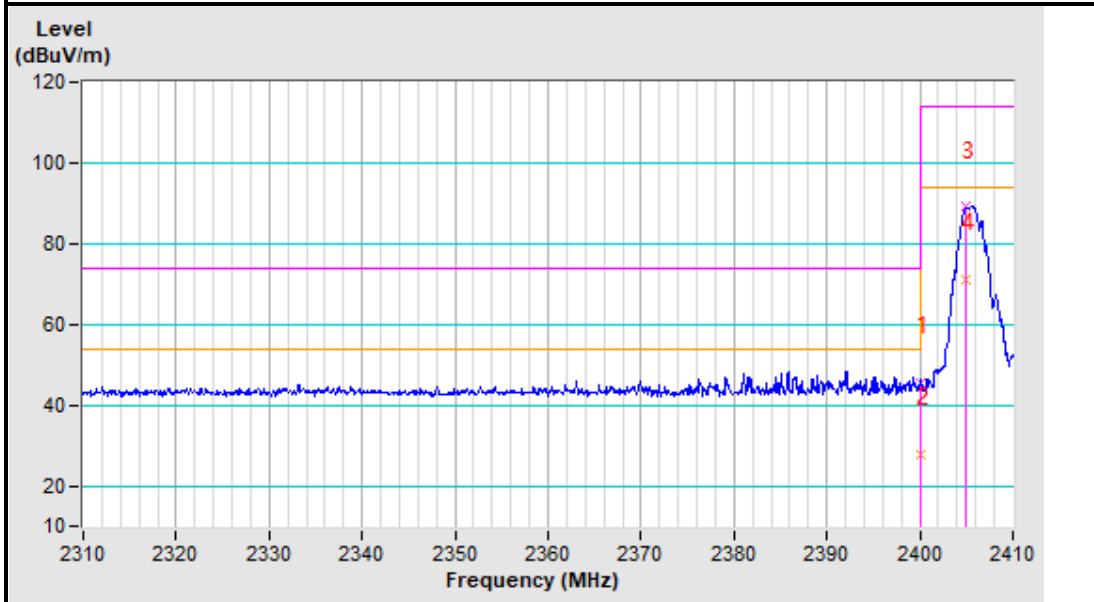
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	45.57 PK	74.00	-28.43	1.00 H	184	49.77	-4.20
2	2400.00	27.64 AV	54.00	-26.36	1.00 H	184	31.84	-4.20
3	*2405.00	89.08 PK	114.00	-24.92	1.00 H	184	93.28	-4.20
4	*2405.00	71.15 AV	94.00	-22.85	1.00 H	184	75.35	-4.20
5	4810.00	56.11 PK	74.00	-17.89	1.34 H	67	58.39	-2.28
6	4810.00	38.18 AV	54.00	-15.82	1.34 H	67	40.46	-2.28
7	7215.00	51.08 PK	74.00	-22.92	1.20 H	54	50.92	0.16
8	7215.00	33.15 AV	54.00	-20.85	1.20 H	54	32.99	0.16
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	52.52 PK	74.00	-21.48	1.00 V	128	56.72	-4.20
2	2400.00	34.59 AV	54.00	-19.41	1.00 V	128	38.79	-4.20
3	*2405.00	93.47 PK	114.00	-20.53	1.00 V	128	97.67	-4.20
4	*2405.00	75.54 AV	94.00	-18.46	1.00 V	128	79.74	-4.20
5	4810.00	56.92 PK	74.00	-17.08	1.34 V	154	59.20	-2.28
6	4810.00	38.99 AV	54.00	-15.01	1.34 V	154	41.27	-2.28
7	7215.00	50.72 PK	74.00	-23.28	1.44 V	96	50.56	0.16
8	7215.00	32.79 AV	54.00	-21.21	1.44 V	96	32.63	0.16

REMARK:

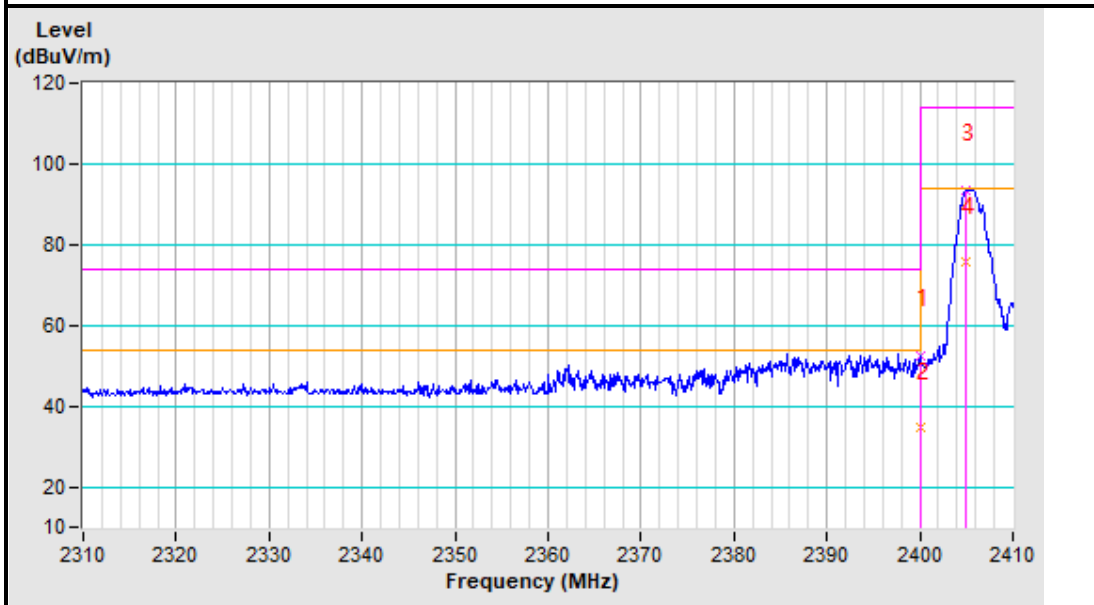
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. Average value = PK Emission + 20 * log (duty cycle) Where the duty factor is calculated from following formula: $20 \log (\text{Duty cycle}) = 20 \log (12.69\%) \approx -17.93\text{dB}$, please see page 9 for plotted duty.

Band edge Plot

2405MHz Horizontal



2405MHz 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	*2440.00	88.17 PK	114.00	-25.83	1.34 H	59	92.38	-4.21
2	*2440.00	70.24 AV	94.00	-23.76	1.34 H	59	74.45	-4.21
3	4880.00	54.60 PK	74.00	-19.40	1.85 H	102	56.95	-2.35
4	4880.00	36.67 AV	54.00	-17.33	1.85 H	102	39.02	-2.35
5	7320.00	49.99 PK	74.00	-24.01	1.56 H	92	49.86	0.13
6	7320.00	32.06 AV	54.00	-21.94	1.56 H	92	31.93	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	*2440.00	91.87 PK	114.00	-22.13	1.00 V	152	96.08	-4.21
2	*2440.00	73.94 AV	94.00	-20.06	1.00 V	152	78.15	-4.21
3	4880.00	55.18 PK	74.00	-18.82	1.32 V	145	57.53	-2.35
4	4880.00	37.25 AV	54.00	-16.75	1.32 V	145	39.60	-2.35
5	7320.00	50.40 PK	74.00	-23.60	1.67 V	88	50.27	0.13
6	7320.00	32.47 AV	54.00	-21.53	1.67 V	88	32.34	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: $20 \log (\text{Duty cycle}) = 20 \log (12.69\%) \approx -17.93\text{dB}$, please see page 9 for plotted duty.

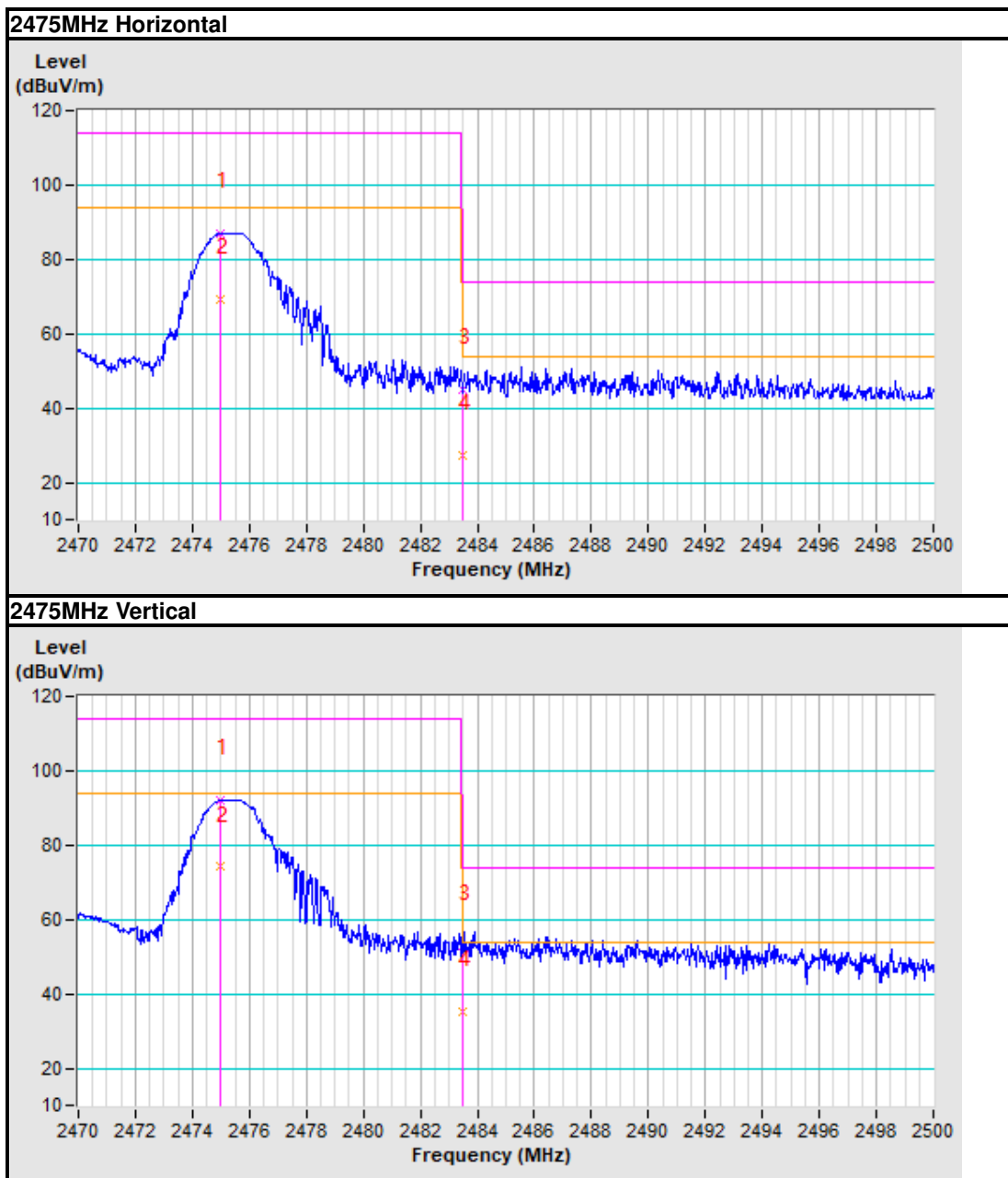
CHANNEL	TX High Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	*2475.00	87.09 PK	114.00	-26.91	1.00 H	121	91.31	-4.22
2	*2475.00	69.16 AV	94.00	-24.84	1.00 H	121	73.38	-4.22
3	2483.50	45.09 PK	74.00	-28.91	1.00 H	121	49.32	-4.23
4	2483.50	27.16 AV	54.00	-26.84	1.00 H	121	31.39	-4.23
5	4950.00	53.58 PK	74.00	-20.42	1.46 H	62	56.00	-2.42
6	4950.00	35.65 AV	54.00	-18.35	1.46 H	62	38.07	-2.42
7	7425.00	50.14 PK	74.00	-23.86	1.10 H	158	50.04	0.10
8	7425.00	32.21 AV	54.00	-21.79	1.10 H	158	32.11	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	*2475.00	92.02 PK	114.00	-21.98	1.00 V	168	96.24	-4.22
2	*2475.00	74.09 AV	94.00	-19.91	1.00 V	168	78.31	-4.22
3	2483.50	53.03 PK	74.00	-20.97	1.00 V	168	57.26	-4.23
4	2483.50	35.10 AV	54.00	-18.90	1.00 V	168	39.33	-4.23
5	4950.00	53.97 PK	74.00	-20.03	1.22 V	106	56.39	-2.42
6	4950.00	36.04 AV	54.00	-17.96	1.22 V	106	38.46	-2.42
7	7425.00	50.69 PK	74.00	-23.31	1.40 V	187	50.59	0.10
8	7425.00	32.76 AV	54.00	-21.24	1.40 V	187	32.66	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: $20 \log (\text{Duty cycle}) = 20 \log (12.69\%) \approx -17.93\text{dB}$, please see page 9 for plotted duty.

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.
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 Test Shielded 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.

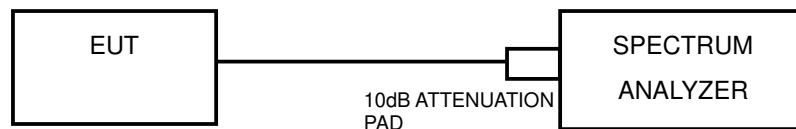
4.2.3 TEST PROCEDURE

- 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



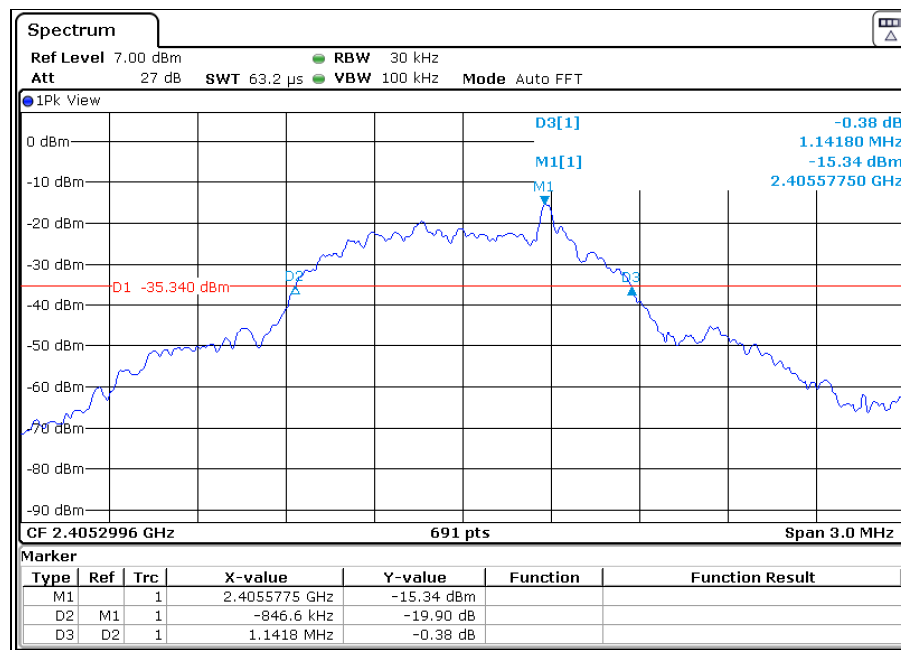
4.2.6 EUT OPERATING CONDITIONS

- 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.

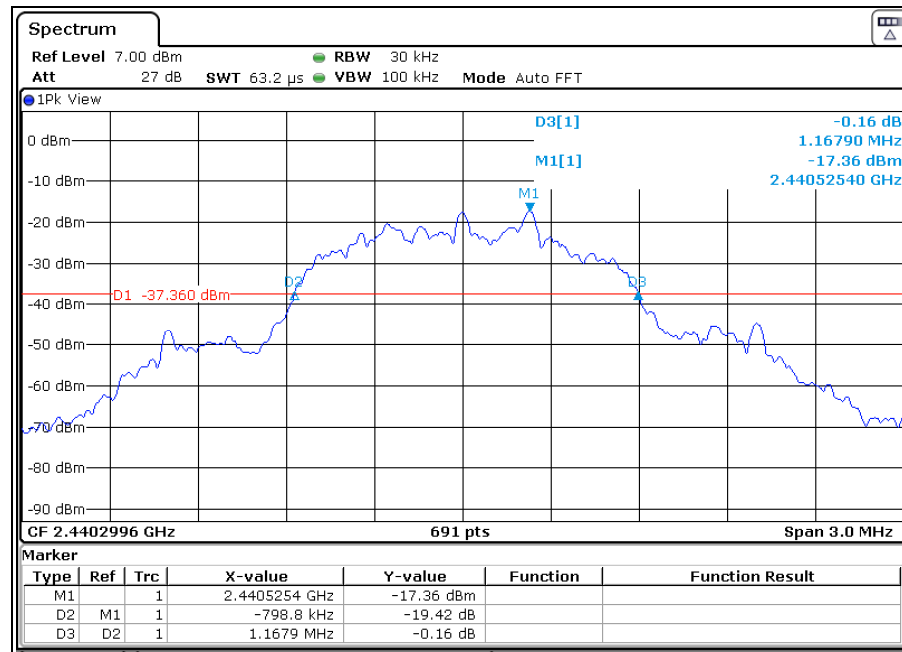
4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2405	1.1418
Middle	2440	1.1679
High	2475	1.1548

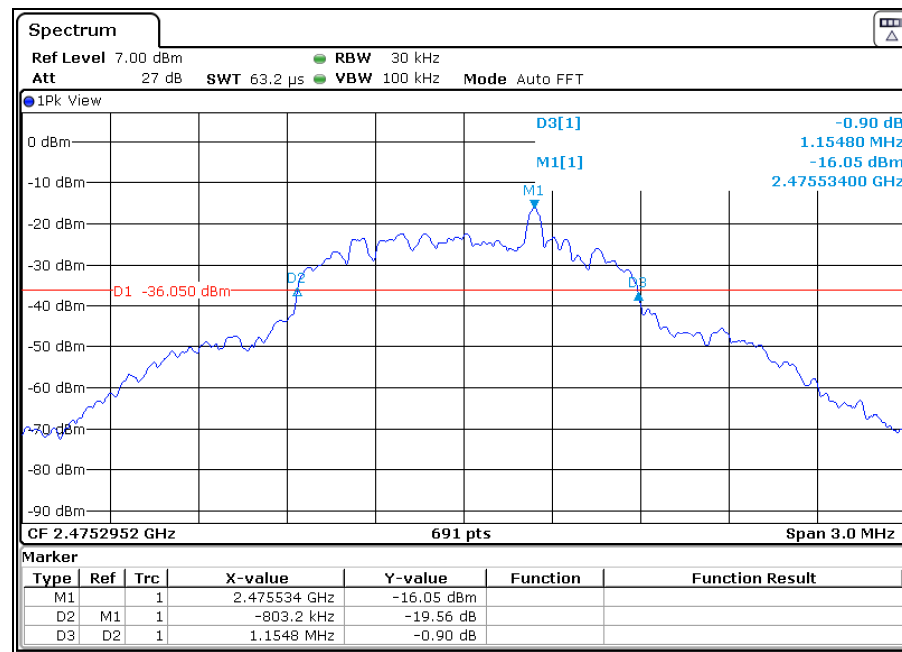
Test Data: Low channel



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---