TEST REPORT

Applicant:	Shantou Chenghai Huabo Smart Living Technology Co., Ltd.
Address:	Next to Chengjiang Road,Dutou Village, Shanghua County, Chenghai District, Shantou City, Guangdong, China

Manufacturer or Supplier	Shantou Chenghai Huabo Smart Living Technology Co., Ltd.
Address	Next to Chengjiang Road, Dutou Village, Shanghua County, Chenghai District, Shantou City, Guangdong, China
Product:	Toy RC Hydro Crawler
Brand Name:	Sharper Image
Model:	1020067
Additional Model & Model Difference	10XXXXX (where XXXXX can be digits 00000-99999 which represent different customers); See item 3.1
Date of tests	Oct. 23, 2025 ~ Oct. 30, 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 Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	Date: Mar. 30, 2026

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2510WDG0153-2	Original release	Mar. 30, 2026

Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

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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	Toy RC Hydro Crawler
MODEL NO.	1020067
ADDITIONAL MODEL	10XXXXX (where XXXXX can be digits 00000-99999 which represent different customers)
FCC ID	2A4XIHB2025W24GR
NOMINAL VOLTAGE	DC 3.7V from Li-ion battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2407MHz ~ 2477MHz
ANTENNA TYPE	Wire Antenna, with 0dBi gain
I/O PORTS	N/A
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.: 2510WDG0153-2) for detailed product photo.
4. Additional models (see above table) are identical with the test model 1020067 except the color of the appearance and model number for trading purpose.
5. EUT can't work when it was charging, for charging function, please refer to the EMC report FS2510WDG0153.

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 X 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 3.7V from 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	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	**2407**	18	2428	35	2463
2	2408	19	2429	36	2464
3	2409	20	2430	37	2465
4	2410	21	2431	38	2466
5	2411	22	2432	39	2467
6	2412	23	2433	40	2468
7	2413	24	2434	41	2469
8	2414	25	2435	42	2470
9	2415	26	2436	43	2471
10	2416	27	2437	44	2472
11	2417	28	2438	45	2473
12	2418	29	2439	46	2474
13	2419	30	2440	47	2475
14	2420	31	2441	48	2476
15	2421	**32**	**2442**	**49**	**2477**
16	2422	33	2452		
17	2427	34	2462		

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 3.7V from Battery	Ludius
BW	24deg. C, 56%RH	DC 3.7V from Battery	Vincent
PLC	N/A	N/A	N/A

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 C63.10-2020

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

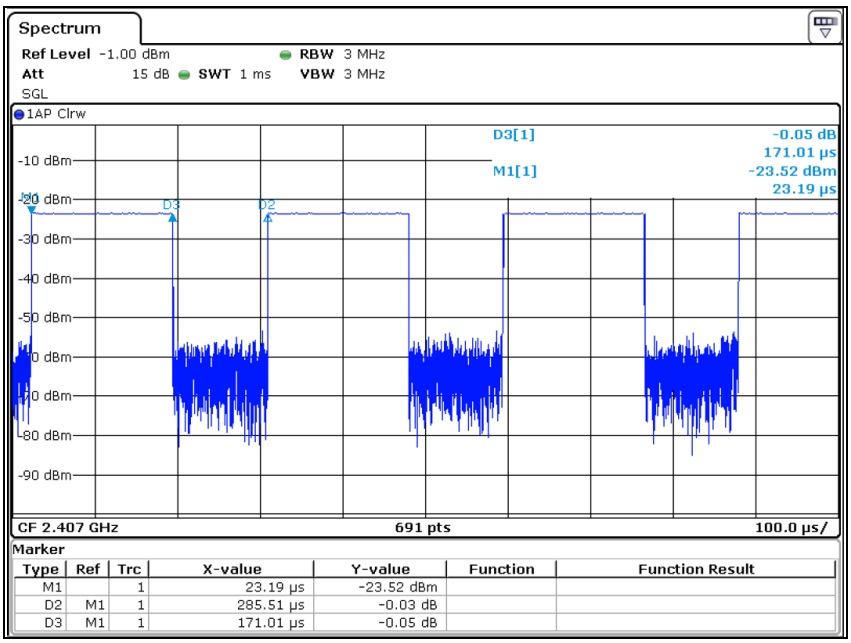
3.5 DUTY CYCLE OF TESET SIGNAL

Tp = 0.28551 ms

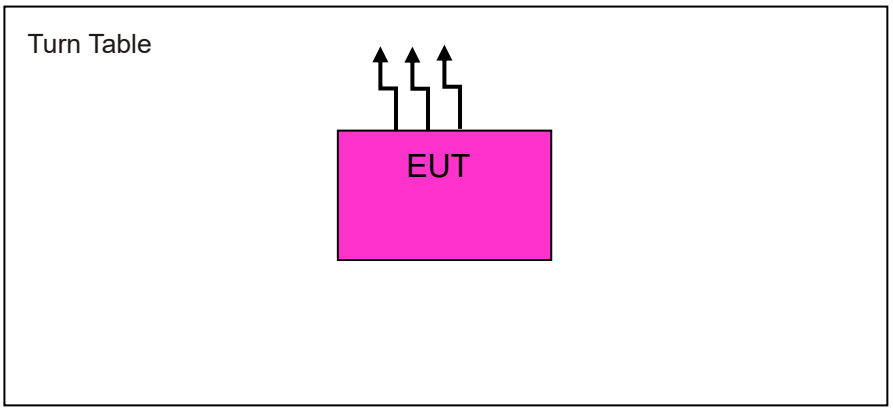
Ton = 0.17101 ms

Duty Cycle = Ton / Tp*100% = 0.17101 / 0.28551 ≈ 59.90%

AV factor=20 log (Duty cycle) = 20 log (59.90%) ≈ -4.45dB



3.6 CONFIGURATION OF SYSTEM UNDER TEST



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. 09, 26
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Apr. 07, 26
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 26
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. 11, 26
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Apr. 19, 26
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 17, 26
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Feb. 21, 26
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Oct. 10, 26

NOTES:

1. The test was performed in 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 above1GHz if tested.
4. The FCC Site registration No. is 749762, and the designation number is 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:

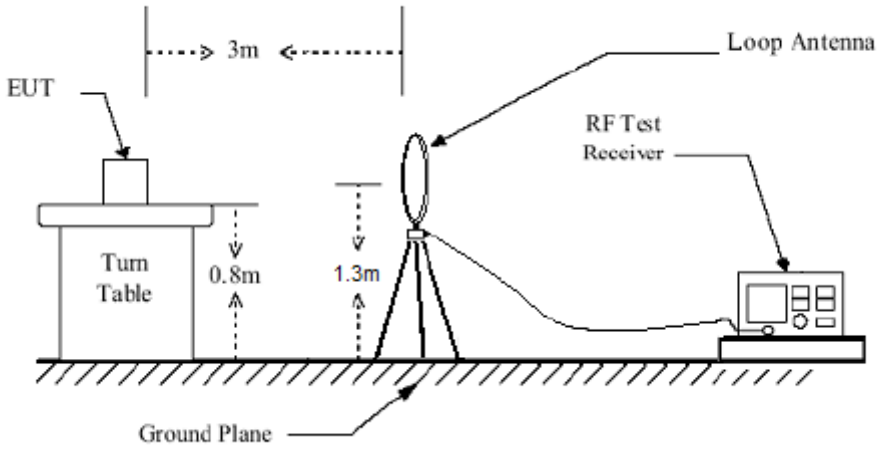
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Average value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

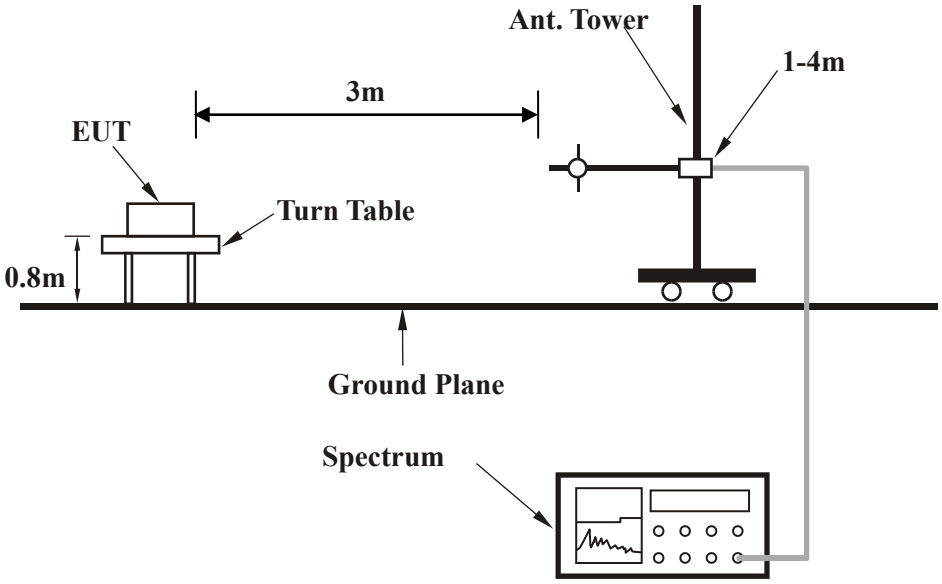
No deviation.

4.1.5 TEST SETUP

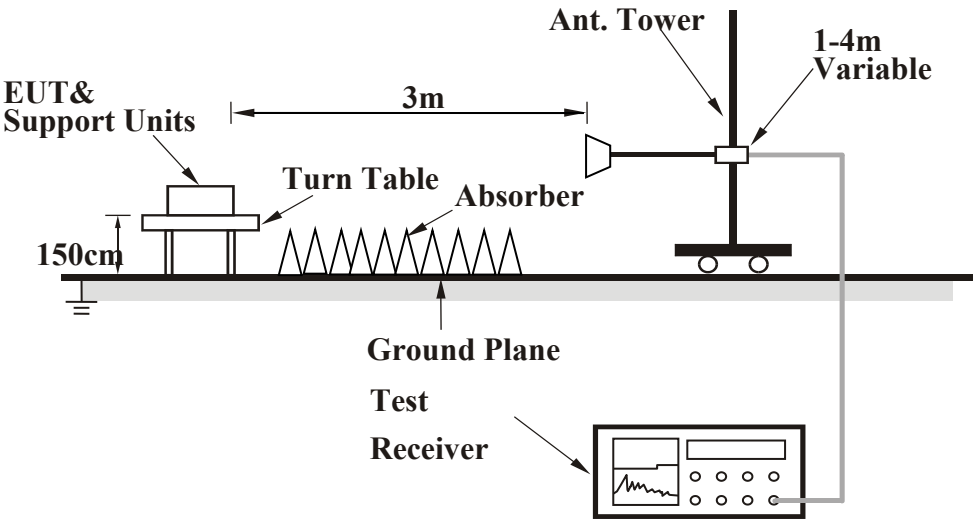
Below 30MHz test setup



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

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

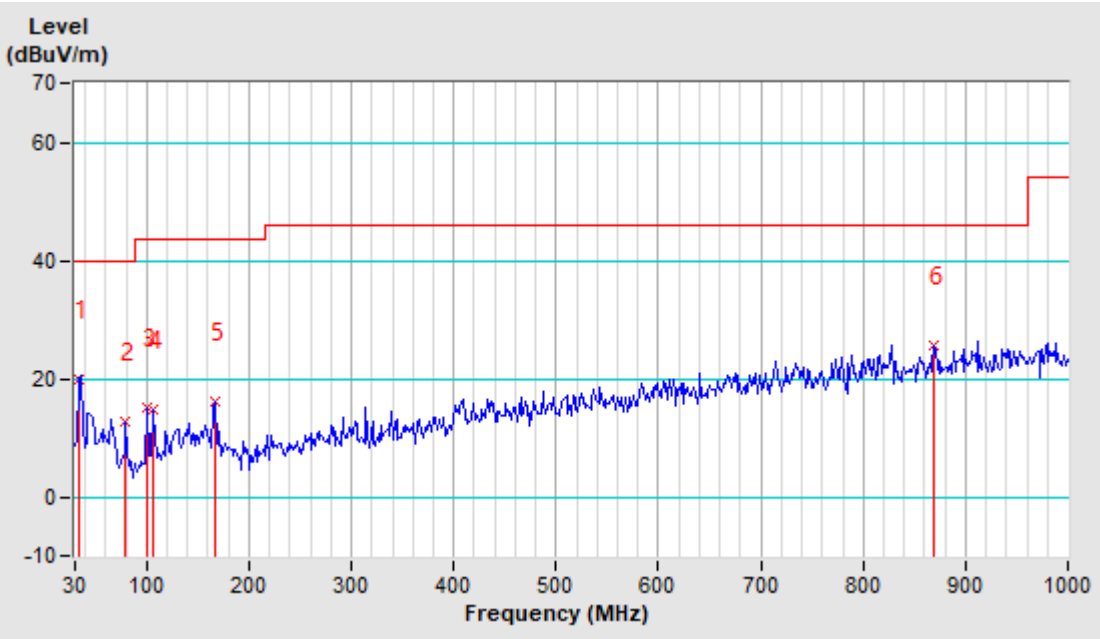
BELOW 1GHz WORST-CASE DATA

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	34.66	19.98 QP	40.00	-20.02	1.28 H	292	38.75	-18.77
2	79.74	12.88 QP	40.00	-27.12	1.00 H	194	35.04	-22.16
3	99.95	15.20 QP	43.50	-28.30	1.18 H	243	36.75	-21.55
4	106.17	14.79 QP	43.50	-28.71	1.04 H	229	35.66	-20.87
5	166.79	16.22 QP	43.50	-27.28	1.00 H	215	33.32	-17.10
6	869.42	25.73 QP	46.00	-20.27	1.00 H	174	28.92	-3.19

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.

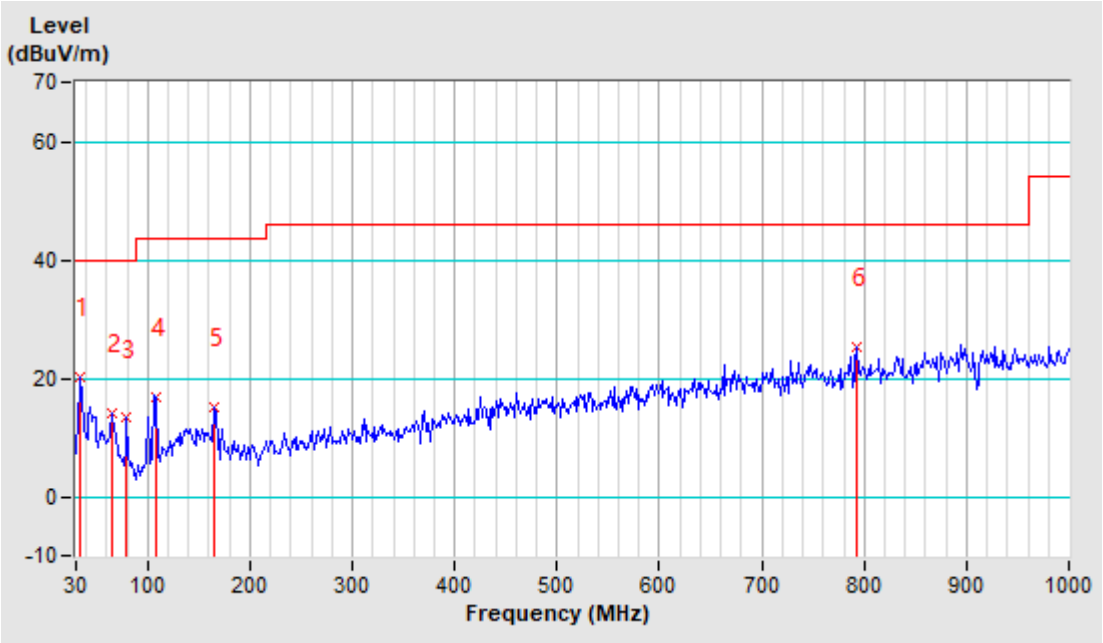


CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

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	34.66	20.32 QP	40.00	-19.68	1.00 V	121	39.09	-18.77
2	65.75	14.23 QP	40.00	-25.77	1.33 V	76	32.63	-18.40
3	79.74	13.28 QP	40.00	-26.72	1.47 V	63	35.44	-22.16
4	107.72	16.90 QP	43.50	-26.60	1.74 V	37	37.60	-20.70
5	165.24	15.05 QP	43.50	-28.45	1.60 V	50	32.06	-17.01
6	793.25	25.22 QP	46.00	-20.78	1.15 V	94	29.78	-4.56

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.



ABOVE 1GHz WORST-CASE DATA:

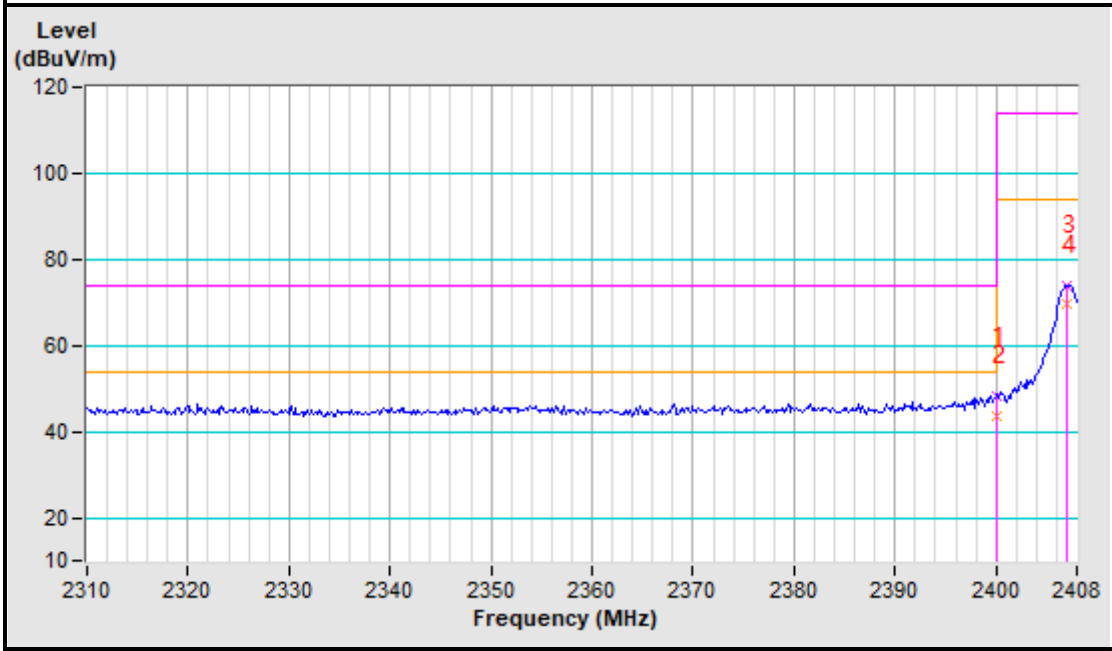
CHANNEL	TX Low Channel	**DETECTOR FUNCTION**	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	47.99 PK	74.00	-26.01	2.35 H	41	45.16	2.83
2	2400.00	43.54 AV	54.00	-10.46	2.35 H	41	40.71	2.83
3	*2407.00	73.89 PK	114.00	-40.11	4.00 H	15	71.04	2.85
4	*2407.00	69.44 AV	94.00	-24.56	4.00 H	15	66.59	2.85
5	4814.00	50.14 PK	74.00	-23.86	1.56 H	38	42.90	7.24
6	4814.00	45.69 AV	54.00	-8.31	1.56 H	38	38.45	7.24
7	7221.00	53.76 PK	74.00	-20.24	4.00 H	15	42.37	11.39
8	7221.00	49.31 AV	54.00	-4.69	4.00 H	15	37.92	11.39
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	52.67 PK	74.00	-21.33	1.65 V	45	49.84	2.83
2	2400.00	48.22 AV	54.00	-5.78	1.65 V	45	45.39	2.83
3	*2407.00	82.22 PK	114.00	-31.78	1.56 V	45	79.37	2.85
4	*2407.00	77.77 AV	94.00	-16.23	1.56 V	45	74.92	2.85
5	4814.00	50.99 PK	74.00	-23.01	1.56 V	39	43.75	7.24
6	4814.00	46.54 AV	54.00	-7.46	1.56 V	39	39.30	7.24
7	7221.00	53.68 PK	74.00	-20.32	1.00 V	148	42.29	11.39
8	7221.00	49.23 AV	54.00	-4.77	1.00 V	148	37.84	11.39

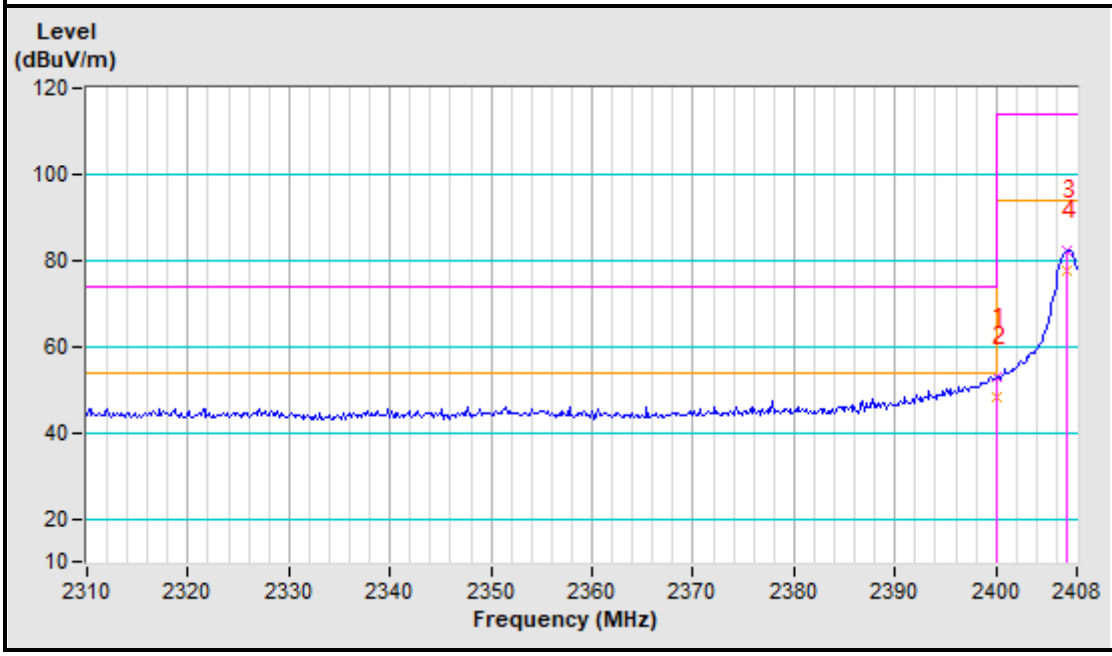
REMARK:

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 (59.90%) ≈ -4.45dB, Please see page 9 for plotted duty.

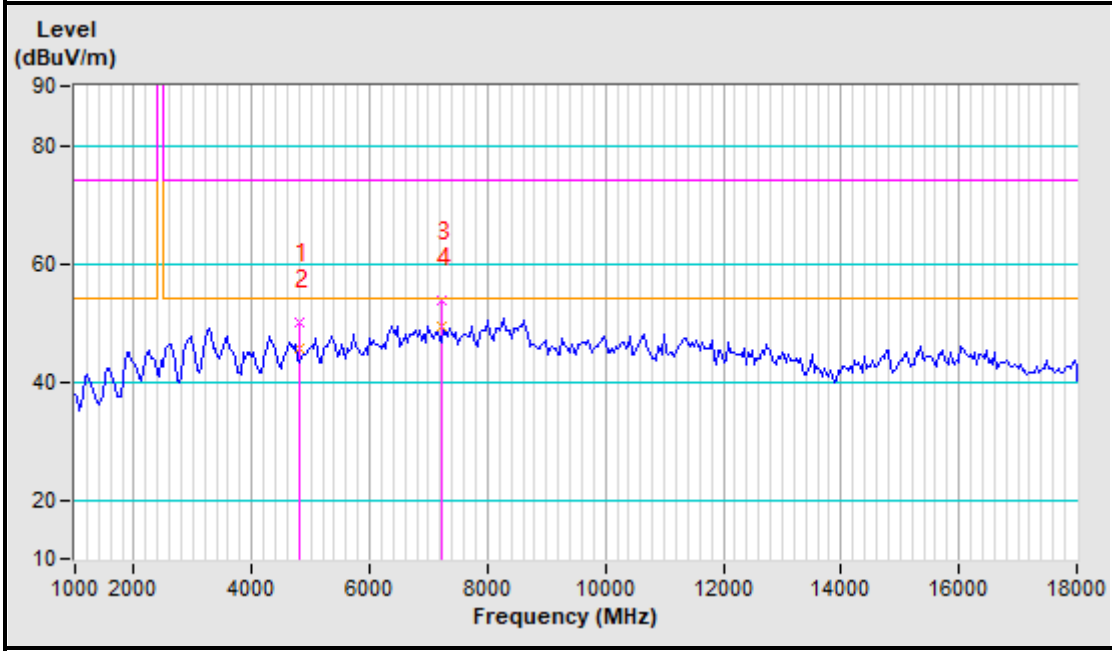
2407MHz Horizontal



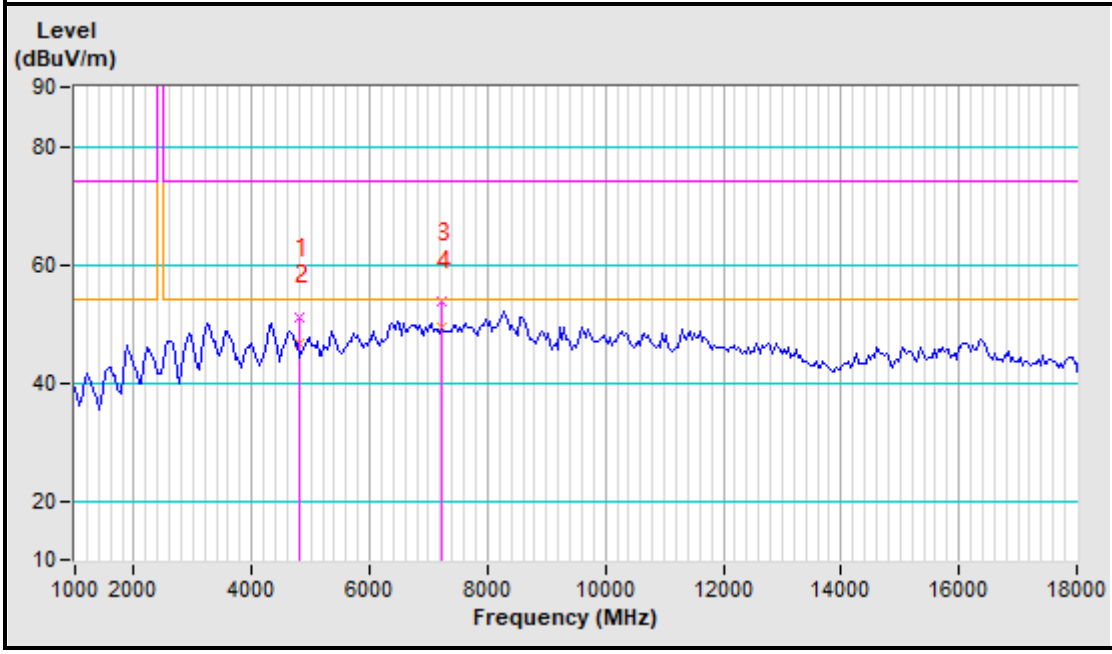
2407MHz Vertical



2407MHz Horizontal



2407MHz Vertical



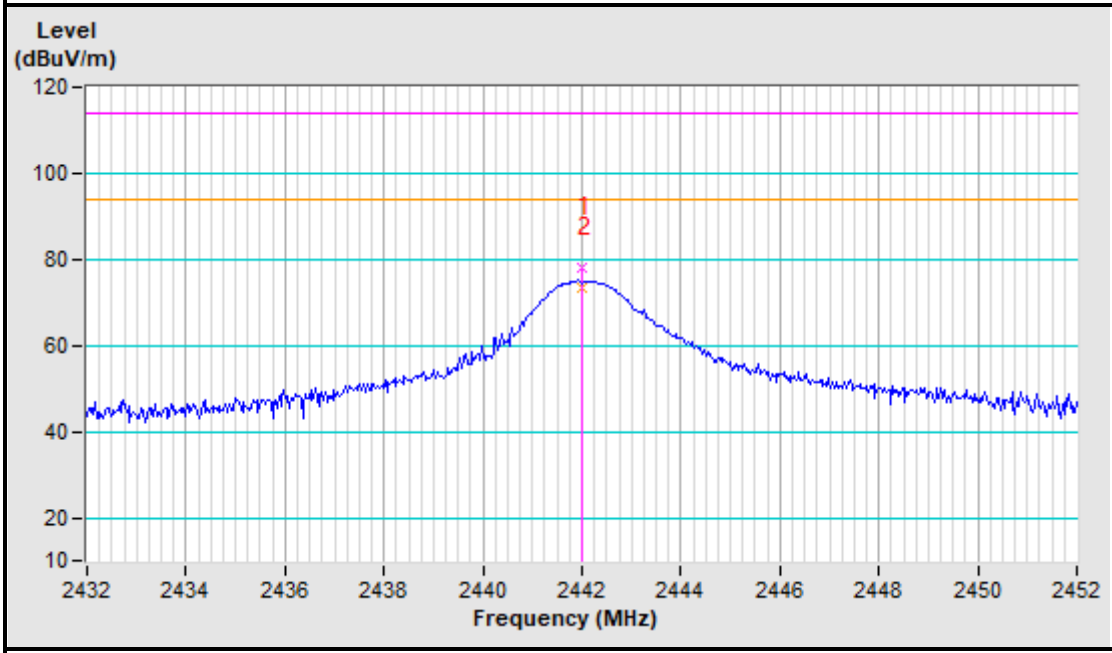
CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	78.03 PK	114.00	-35.97	3.25 H	71	75.09	2.94
2	*2442.00	73.58 AV	94.00	-20.42	3.25 H	71	70.64	2.94
3	4884.00	51.84 PK	74.00	-22.16	4.00 H	89	44.39	7.45
4	4884.00	47.39 AV	54.00	-6.61	4.00 H	89	39.94	7.45
5	7326.00	54.50 PK	74.00	-19.50	1.54 H	78	42.73	11.77
6	7326.00	50.05 AV	54.00	-3.95	1.54 H	78	38.28	11.77
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	83.20 PK	114.00	-30.80	1.65 V	76	80.26	2.94
2	*2442.00	78.75 AV	94.00	-15.25	1.65 V	76	75.81	2.94
3	4884.00	50.00 PK	74.00	-24.00	3.25 V	89	42.55	7.45
4	4884.00	45.55 AV	54.00	-8.45	3.25 V	89	38.10	7.45
5	7326.00	53.99 PK	74.00	-20.01	1.05 V	78	42.22	11.77
6	7326.00	49.54 AV	54.00	-4.46	1.05 V	78	37.77	11.77

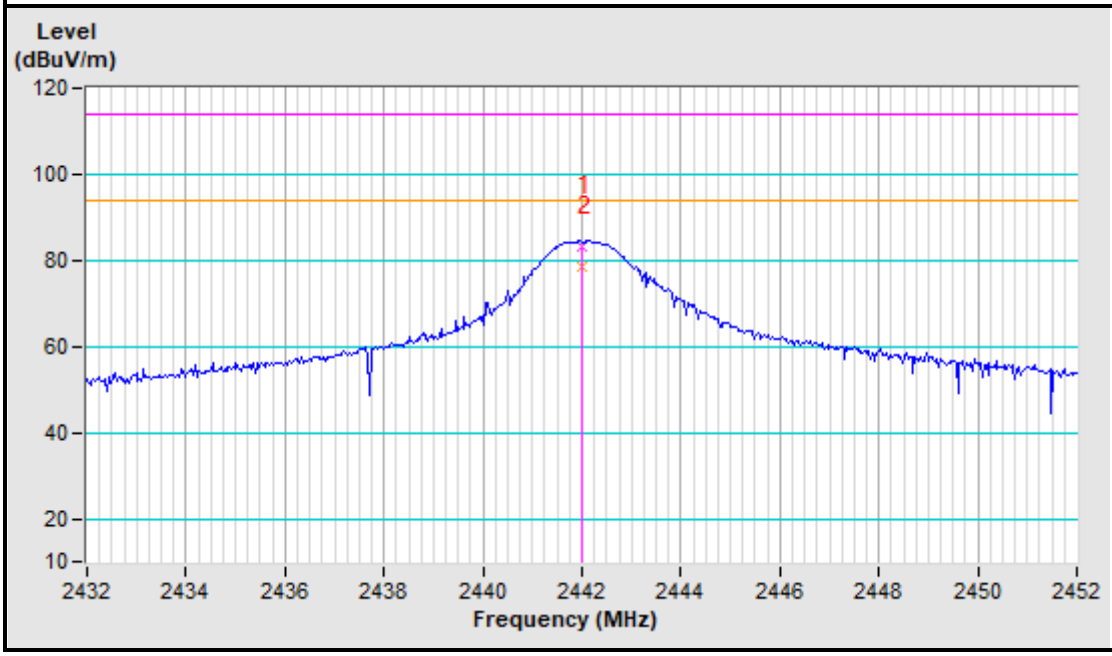
REMARKS:

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 (59.90%) ≈ -4.45dB, Please see page 9 for plotted duty.

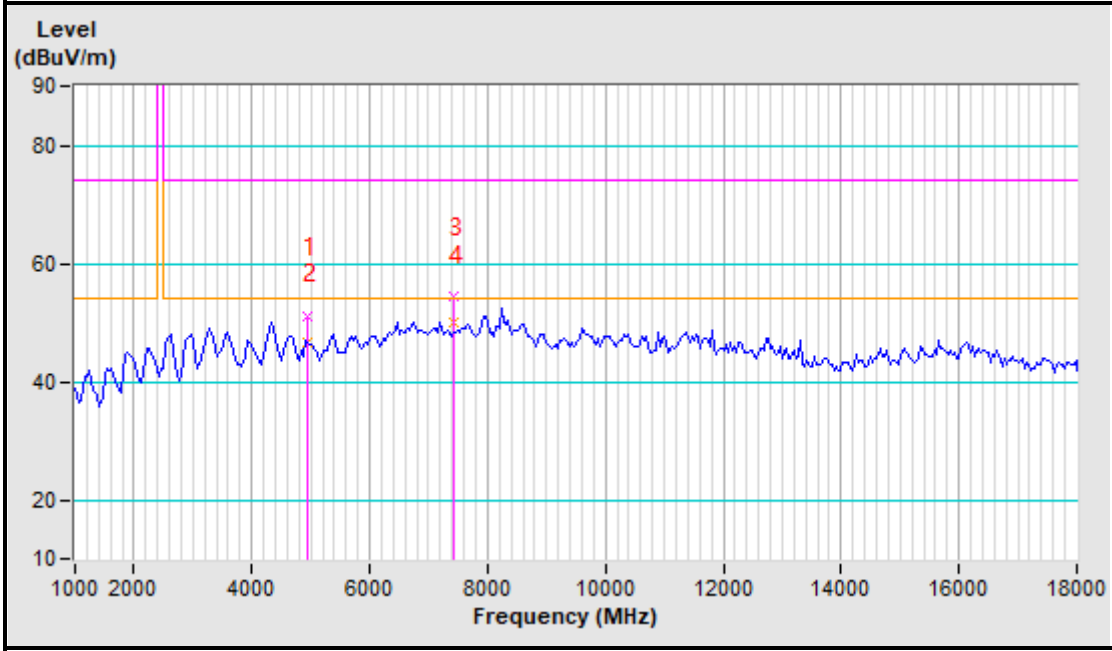
2442MHz Horizontal



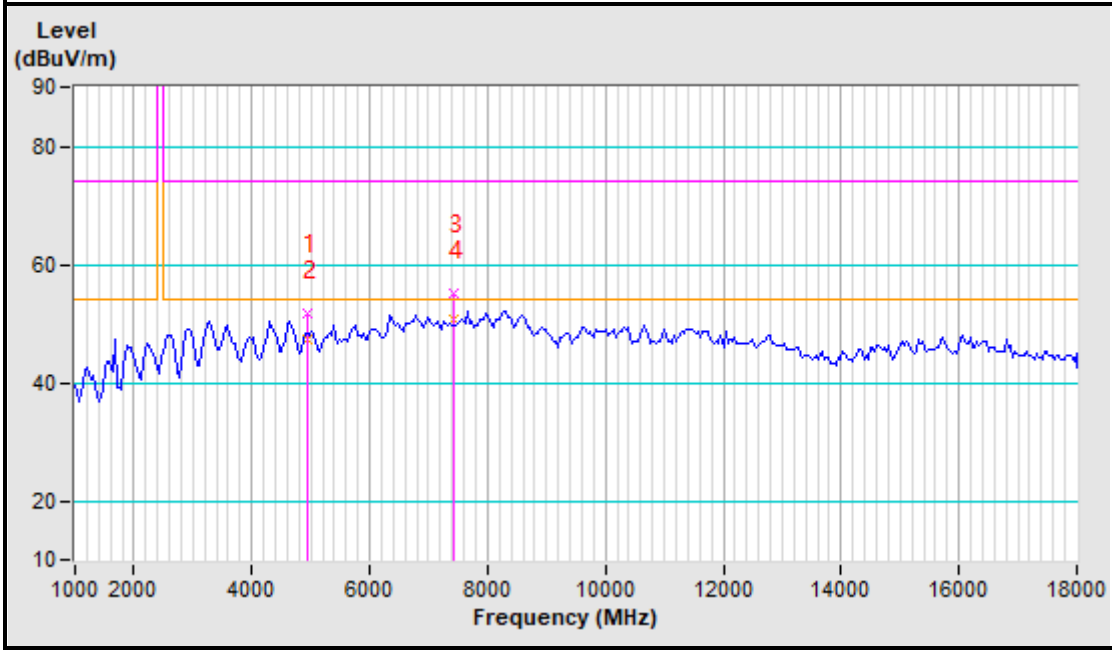
2442MHz Vertical



2442MHz Horizontal



2442MHz Vertical



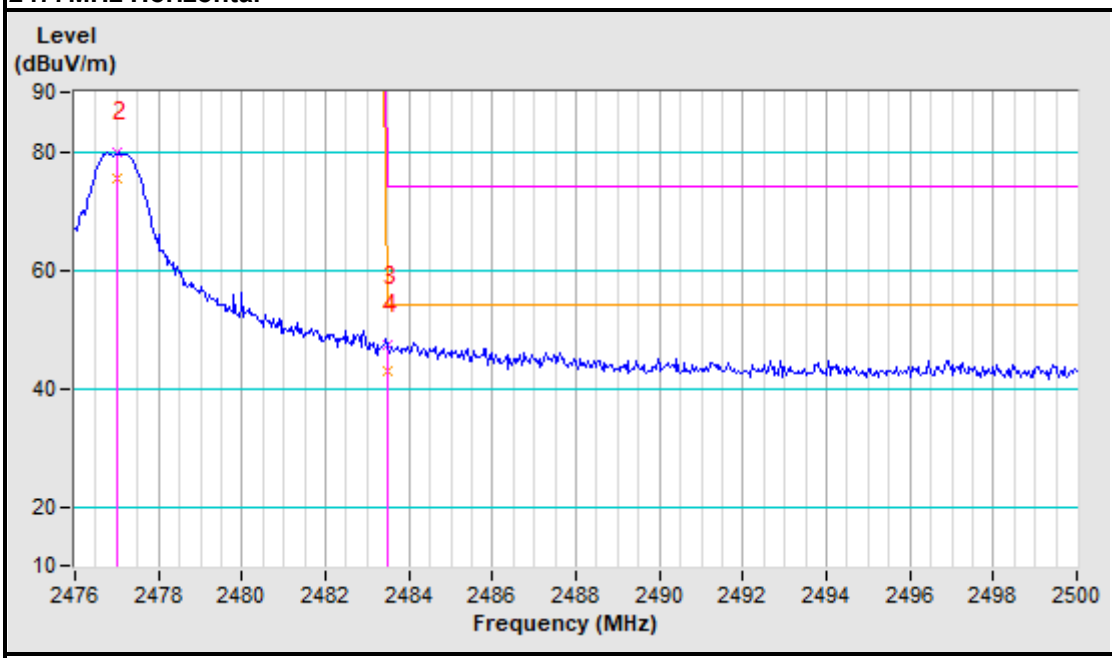
CHANNEL	TX High Channel	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	79.77 PK	114.00	-34.23	1.56 H	72	76.73	3.04
2	*2477.00	75.32 AV	94.00	-18.68	1.56 H	72	72.28	3.04
3	2483.50	47.22 PK	74.00	-26.78	2.35 H	89	44.16	3.06
4	2483.50	42.77 AV	54.00	-11.23	2.35 H	89	39.71	3.06
5	4954.00	51.16 PK	74.00	-22.84	2.35 H	39	43.51	7.65
6	4954.00	46.71 AV	54.00	-7.29	2.35 H	39	39.06	7.65
7	7431.00	54.35 PK	74.00	-19.65	2.35 H	87	42.21	12.14
8	7431.00	49.90 AV	54.00	-4.10	2.35 H	87	37.76	12.14
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	78.62 PK	114.00	-35.38	2.35 V	71	75.58	3.04
2	*2477.00	74.17 AV	94.00	-19.83	2.35 V	71	71.13	3.04
3	2483.50	48.66 PK	74.00	-25.34	3.28 V	89	45.60	3.06
4	2483.50	44.21 AV	54.00	-9.79	3.28 V	89	41.15	3.06
5	4954.00	51.86 PK	74.00	-22.14	2.35 V	40	44.21	7.65
6	4954.00	47.41 AV	54.00	-6.59	2.35 V	40	39.76	7.65
7	7431.00	55.15 PK	74.00	-18.85	2.35 V	8	43.01	12.14
8	7431.00	50.70 AV	54.00	-3.30	2.35 V	8	38.56	12.14

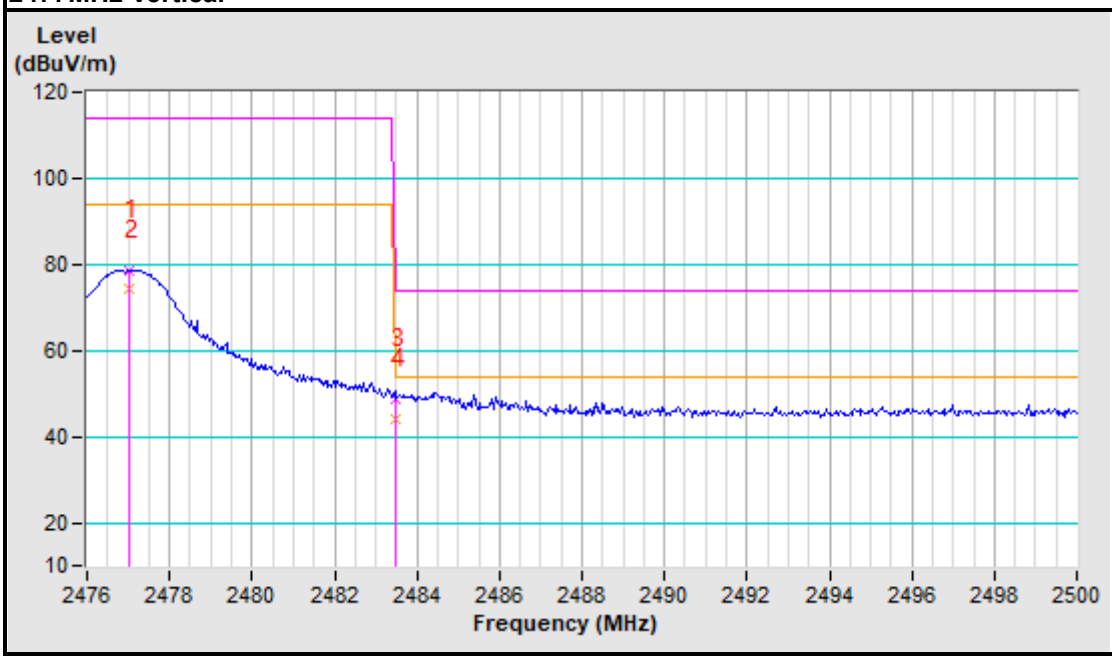
REMARK:

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 (59.90%) ≈ -4.45dB, Please see page 9 for plotted duty.

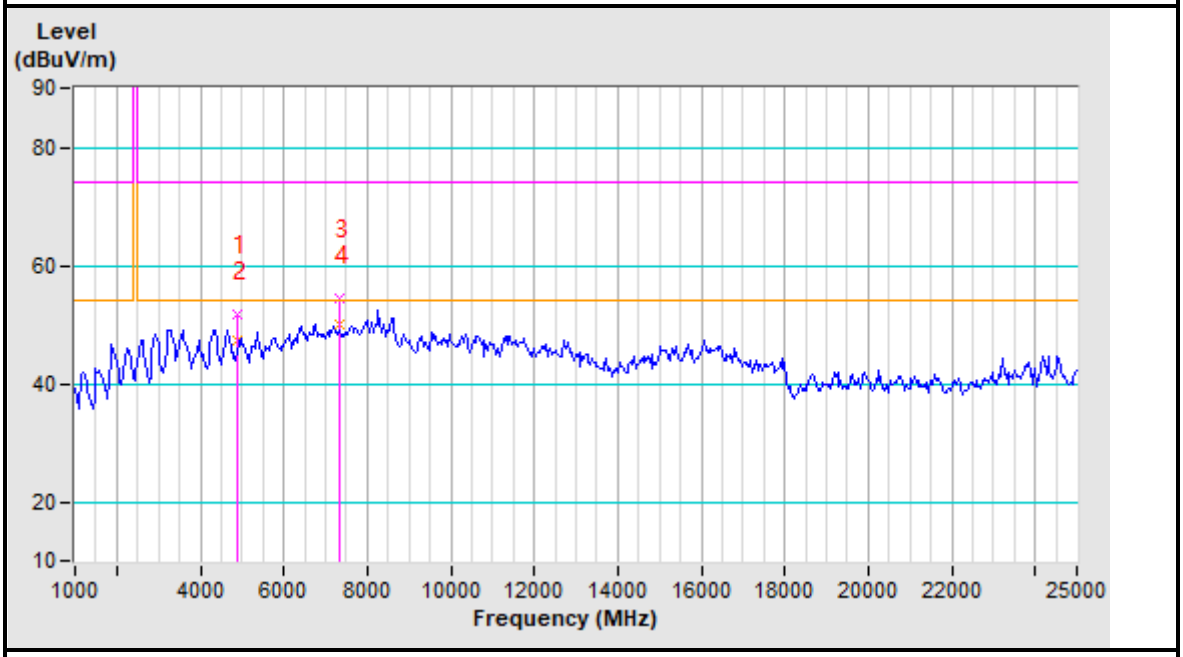
2477MHz Horizontal



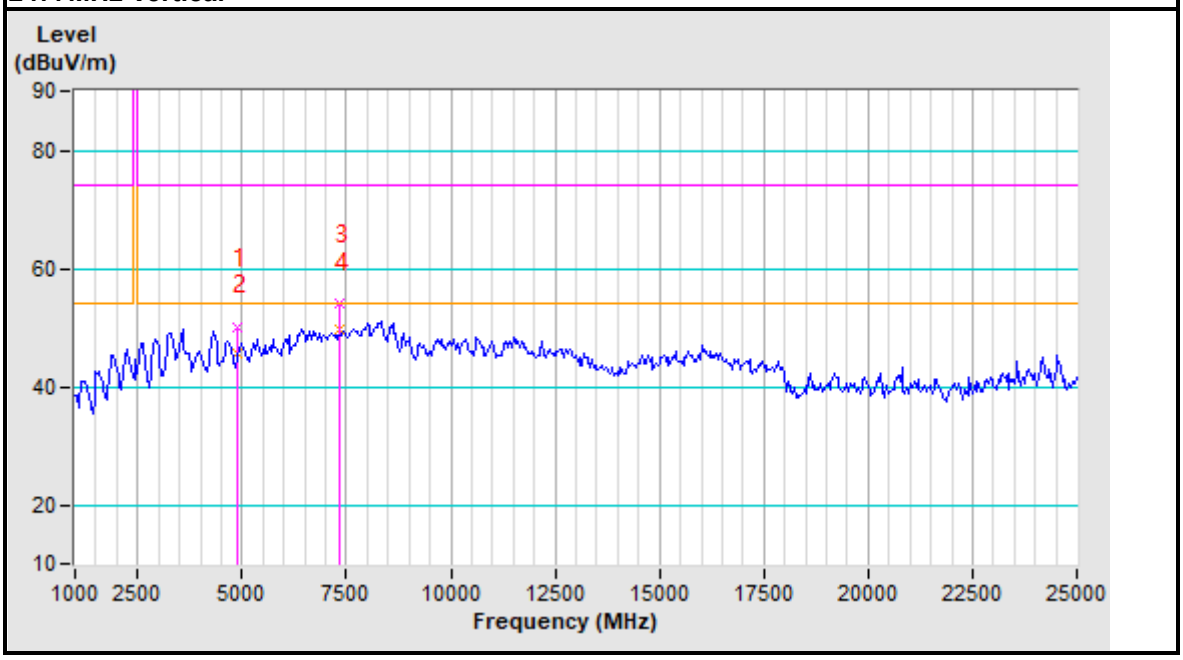
2477MHz Vertical



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, 26
Digital Multimeter	FLUKE	15B	12151063	Jun. 03, 26
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 26
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 06, 26
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Oct. 09, 26
Signal Generator	Agilent	N5183A	MY50140980	Jul. 06, 26
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 06, 26
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Rohde&Schwarz	HMP2020	101295	Jun. 03, 26
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.

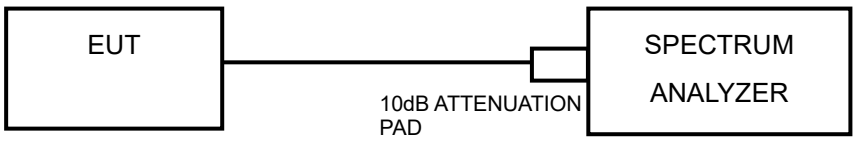
c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

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

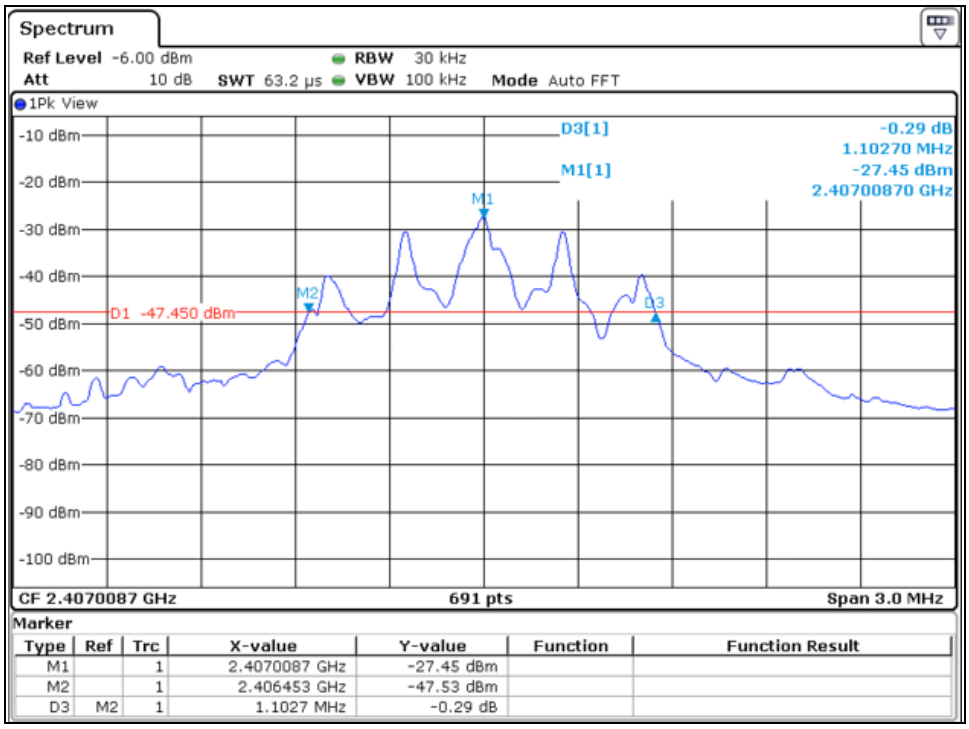
a) Turned on the power of all equipment.

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

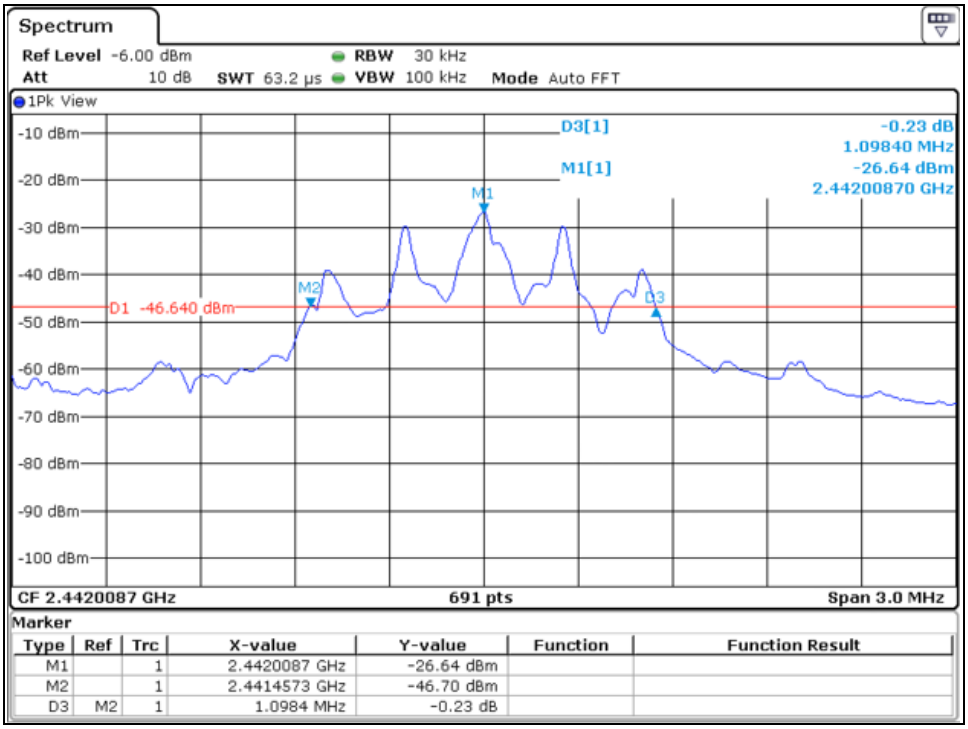
4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2407	1.1027
Middle	2442	1.0984
High	2477	1.0984

Test Data: Low channel



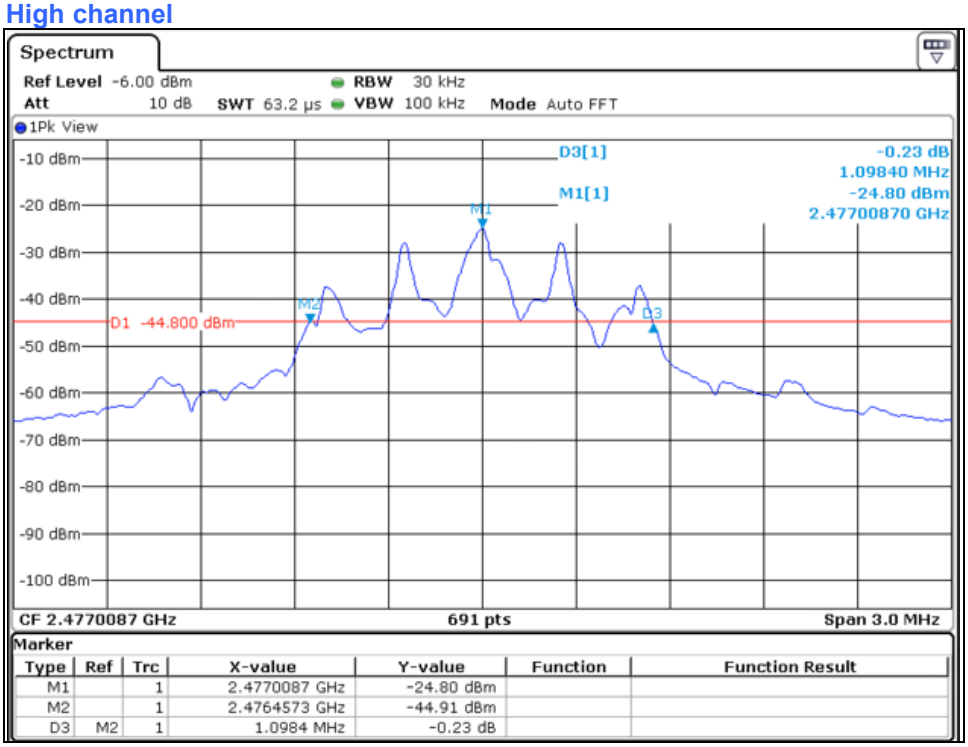
Test Data: Middle channel



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4420087 GHz	-26.64 dBm		
M2		1	2.4414573 GHz	-46.70 dBm		
D3	M2	1	1.0984 MHz	-0.23 dB		

Test Data: High channel



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4770087 GHz	-24.80 dBm		
M2		1	2.4764573 GHz	-44.91 dBm		
D3	M2	1	1.0984 MHz	-0.23 dB		

4.3 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5. 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---