

TEST REPORT

Applicant	XQ Arts toys co., Ltd
Address	North of Xing Ye Road, Lai Mei Industrial District, Shan Tou, China

Manufacturer or Supplier	GuangDong XinYu Technology Industrial Co.,Ltd
Address	Laimei Industrial zone,Chenghai District, Shantou, Guangdong
Product:	RC TOYS
Brand Name:	XQ
Model:	XQ061(F1091)
Additional Model & Model Difference	XQRC10-5(P1090), XQRC10-6(L1089)
Date of tests:	Sep. 09, 2020~ Oct. 15, 2020

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 Evans He Project Engineer / EMC Department	Approved by David Huang Supervisor / EMC Department
<i>Evans He</i>	<i>David Huang</i>
Date: Oct. 15, 2020	

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Test Report No.: RF2009WDG0143

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2009WDG0143	Original release	Oct. 15, 2020

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

NOTE: Test Lab Information:

Lab A: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

Test Lab Address: Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao'an District Shenzhen, Guangdong, 518108,
People's Republic of China

Lab B: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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

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	2.16dB
	30MHz ~ 1GMHz	3.74dB
	1GHz ~ 18GHz	4.82dB
	18GHz ~ 40GHz	5.00dB

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	RC TOYS
MODEL NO.	XQ061(F1091)
ADDITIONAL MODELS	XQRC10-5(P1090), XQRC10-6(L1089)
FCC ID	W2MXQ061TX24GB
NOMINAL VOLTAGE	Remote Control(TX): DC 3V(1.5V*AA*2) from Battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2405-2475MHz
ANTENNA TYPE	Integral Antenna, 0dBi Gain for Remote Control
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Line : Unshielded, Detachable 65cm

NOTE:

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.: 2009WDG0143) for detailed product photo.
4. Additional models (see about table) are identical with the test model XQ061(F1091) except the color of the appearance and model name 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 **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	2405 MHz
Middle	2440 MHz
High	2475 MHz



Channel List

CHANNEL	FREQUENCY (GHZ)	CHANNEL	FREQUENCY (GHZ)	CHANNEL	FREQUENCY (GHZ)
1	2405	2	2406	3	2407
4	2408	5	2409	6	2410
7	2411	8	2412	9	2413
10	2414	11	2415	12	2416
13	2417	14	2418	15	2419
16	2420	17	2421	18	2422
19	2423	20	2424	21	2425
22	2426	23	2427	24	2428
25	2429	26	2430	27	2431
28	2432	29	2433	30	2434
31	2435	32	2436	33	2437
34	2438	35	2439	36	2440
37	2441	38	2442	39	2443
40	2444	41	2445	42	2446
43	2447	44	2448	45	2449
46	2450	47	2451	48	2452
49	2453	50	2454	51	2455
52	2456	53	2457	54	2458
55	2459	56	2460	57	2461
58	2462	59	2463	60	2464
61	2465	62	2466	63	2467
64	2468	65	2469	66	2470
67	2471	68	2472	69	2473
70	2474	71	2475		

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

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	26deg. C, 56%RH	DC 3V from Battery	Aaron Liang
BW	26deg. C, 56%RH	DC 3V from Battery	Aaron Liang
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 with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	-	-	-	-	-

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	-

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.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-10 0262-eQ	Mar. 24, 20	Mar. 24, 21
Bilog Antenna	Sunol Sciences	JB6	A110712	Jul. 21, 20	Jul. 21, 21
Active Antenna	CMO-POWER	AL-130	121031	Jun. 30, 20	Jun. 30, 21
Signal Amplifier	HP	8447E	443008	Mar. 24, 20	Mar. 24, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17, 21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00062558	Jun. 23,20	Jun. 22,21
Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170147	Jun. 23,20	Jun. 22,21
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 18,20	Mar. 17,21
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 18,20	Mar. 17,21
Broadband Preamplifier	SCHWARZBEC K	BBV9718	305	Apr. 21,20	Apr. 20,21
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Mar. 04,20	Mar. 03,21
Test Software	ADT	ADT_Radiate d_V7.6.15.9.2	N/A	N/A	N/A

NOTE:

1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).
2. The calibration interval of the above test instruments is 12 months (Except 3m Semi-anechoic Chamber).And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested
4. 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.

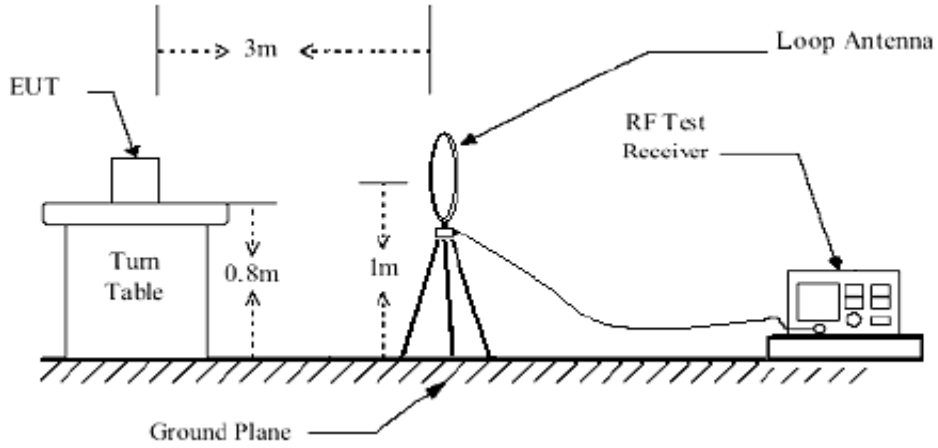
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

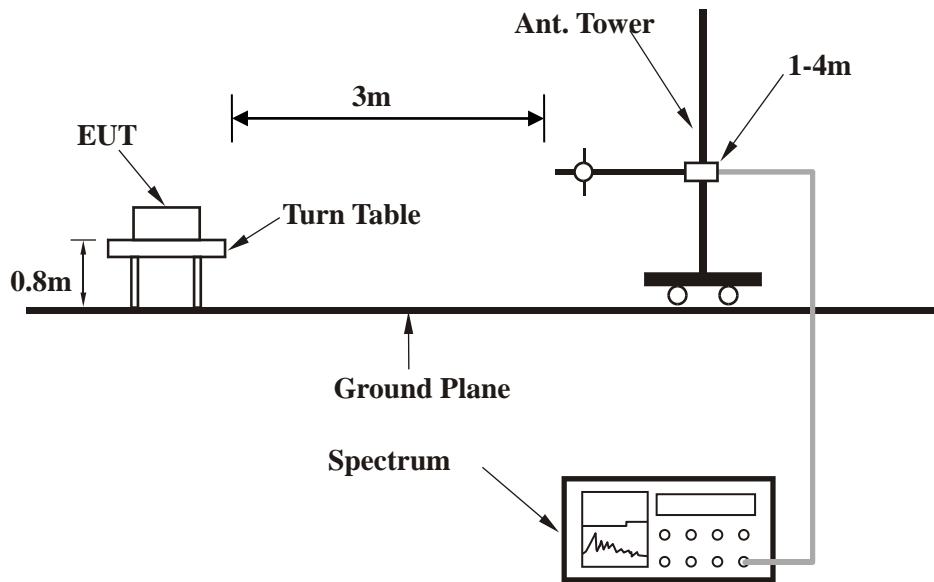


4.1.5 TEST SETUP

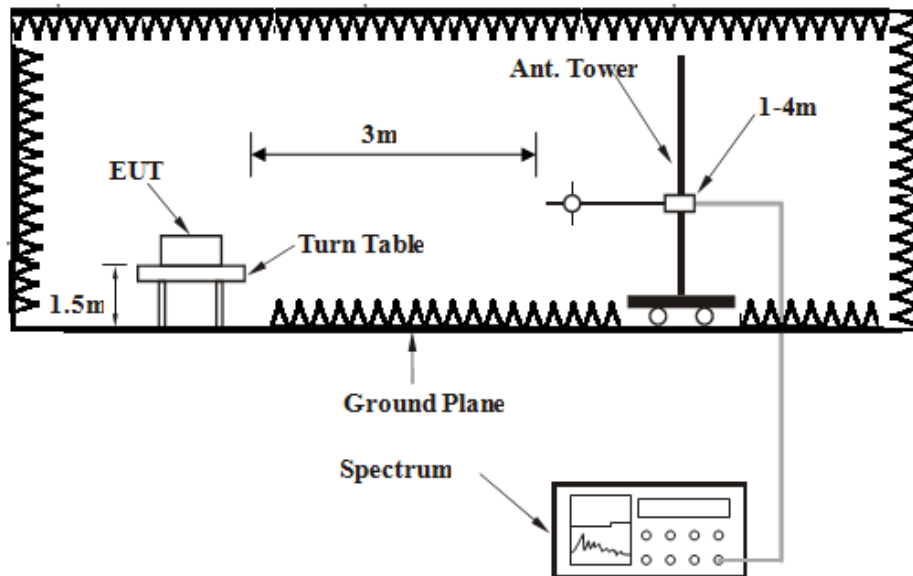
Below 30MHz test setup



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

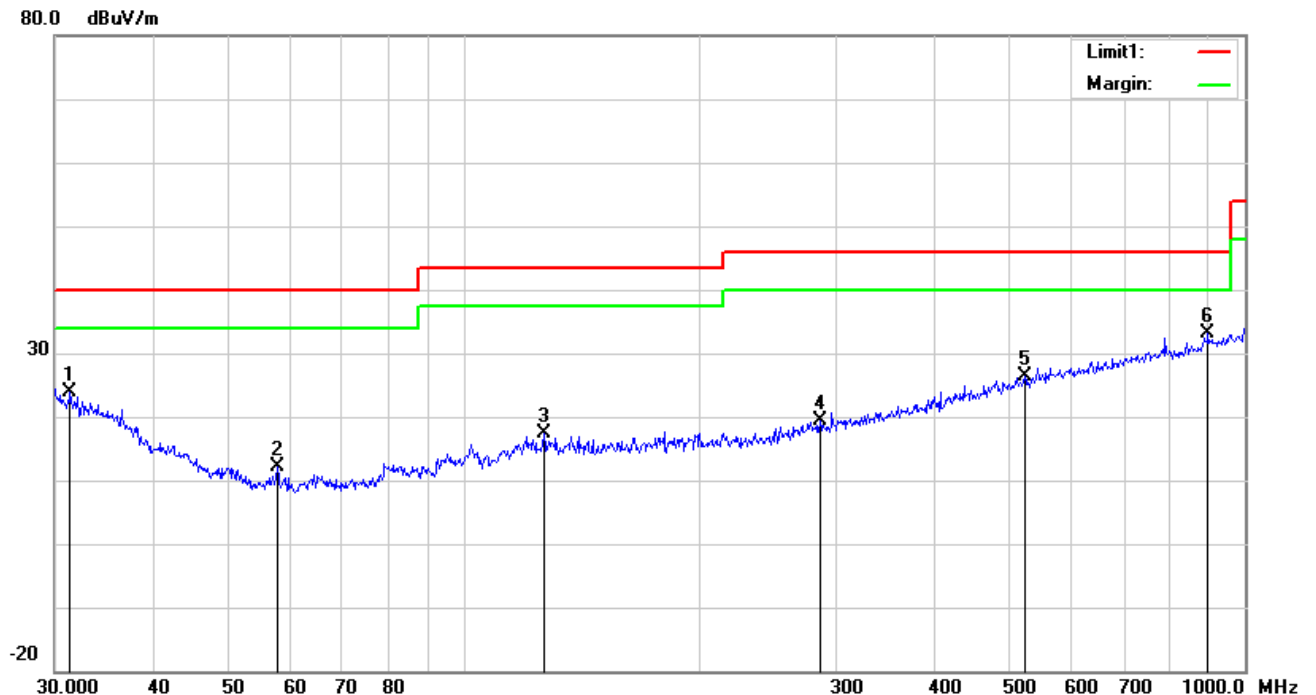
BELOW 1GHz WORST-CASE DATA

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m										
No.	Frequency (MHz)	Reading (dBuV/m)	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	31.3992	26.76	19.20	22.27	0.14	23.83	40.00	-16.17	200	180
2	57.7962	27.07	7.23	22.40	0.26	12.16	40.00	-27.84	100	34
3	126.7723	27.13	11.64	22.38	1.04	17.43	43.50	-26.07	100	265
4	285.9778	26.61	13.36	22.29	1.69	19.37	46.00	-26.63	100	143
5	522.7180	26.76	19.15	21.76	2.19	26.34	46.00	-19.66	100	86
6	896.9965	27.51	23.77	20.89	2.65	33.04	46.00	-12.96	100	295

REMARKS:

1. Result (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Gain (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Result level – Limit value
6. Test in Lab A



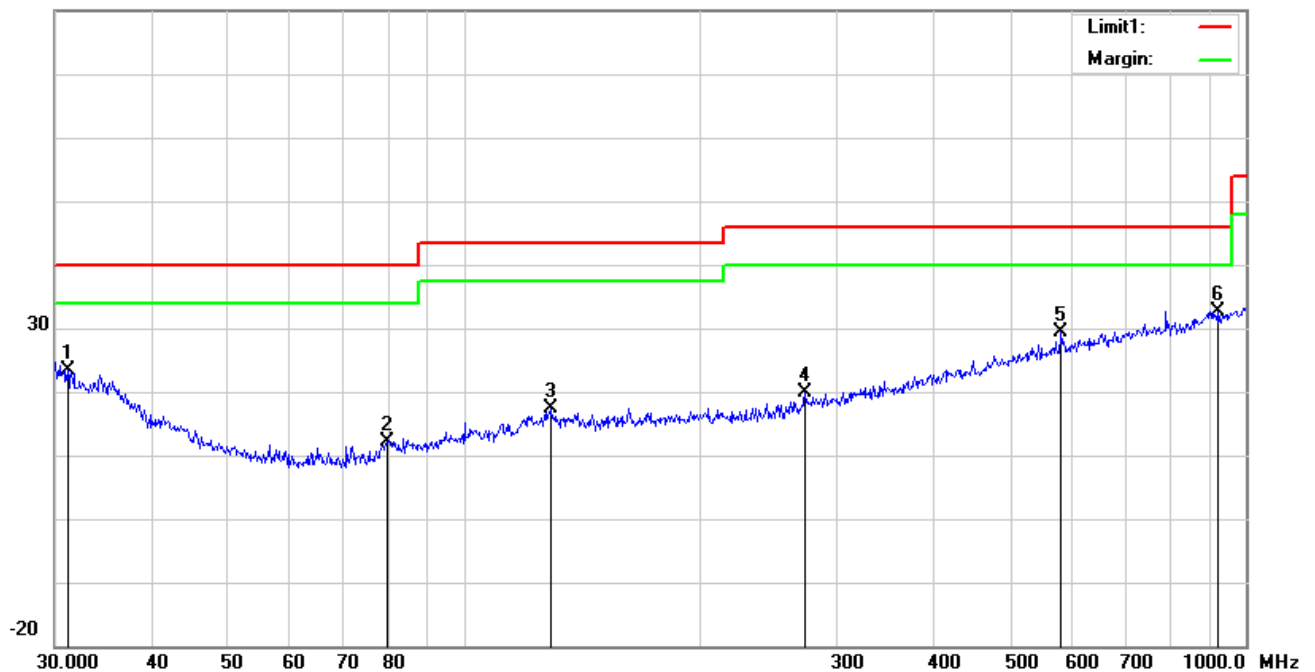
CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m										
No.	Frequency (MHz)	Reading (dBuV/m)	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	31.1798	26.16	19.34	22.27	0.14	23.37	40.00	-16.63	100	51
2	79.8003	27.40	6.68	22.42	0.54	12.20	40.00	-27.80	100	306
3	129.4678	27.23	11.56	22.38	1.07	17.48	43.50	-26.02	100	88
4	273.2341	27.61	13.02	22.29	1.66	20.00	46.00	-26.00	200	311
5	580.7026	28.55	20.15	21.62	2.29	29.37	46.00	-16.63	100	302
6	922.5157	27.37	23.45	20.84	2.67	32.65	46.00	-13.35	100	269

REMARKS:

1. Result (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Gain (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Result level – Limit value
6. Test in Lab A

80.0 dBuV/m





ABOVE 1GHz WORST-CASE DATA:

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

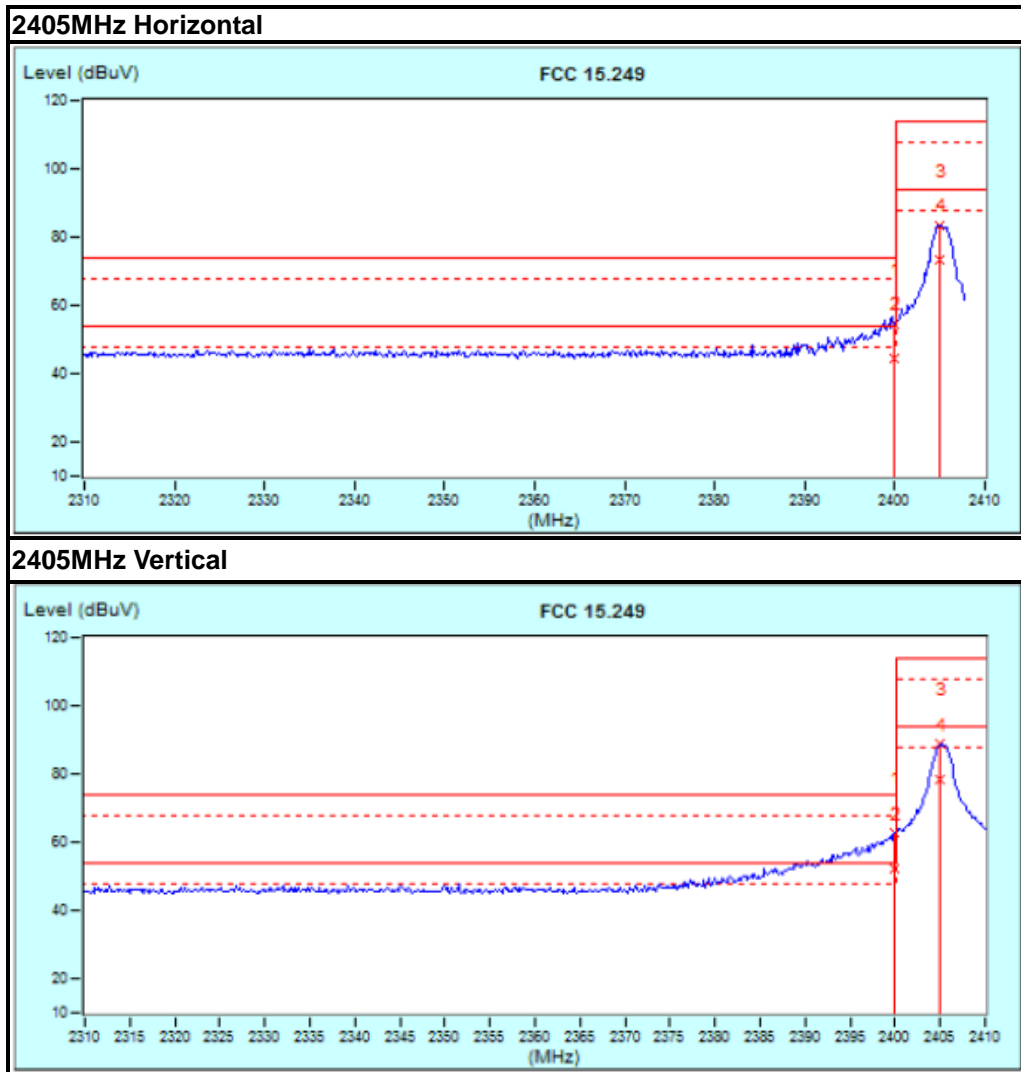
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	(dBuV)	(dB/m)
1	2400	54.64 PK	74	-19.36	144	114	66.02	-11.38
2	2400	44.23 AV	54	-9.77	144	114	55.61	-11.38
3	*2405	83.54 PK	114	-30.46	143	103	94.92	-11.38
4	*2405	73.14 AV	94	-20.86	143	103	84.52	-11.38
5	4810	57.09 PK	74	-16.91	164	352	63.16	-6.07
6	4810	46.69 AV	54	-7.31	164	352	52.76	-6.07
7	7215	62.69 PK	74	-11.31	143	198	62.4	0.29
8	7215	52.29 AV	54	-1.71	143	198	52	0.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	(dBuV)	(dB/m)
1	2400	62.78 PK	74	-11.22	167	168	74.16	-11.38
2	2400	52.38 AV	54	-1.62	167	168	63.76	-11.38
3	*2405	88.72 PK	114	-25.28	161	151	100.1	-11.38
4	*2405	78.32 AV	94	-15.68	161	151	89.7	-11.38
5	4810	57.4 PK	74	-16.6	146	42	63.47	-6.07
6	4810	47 AV	54	-7	146	42	53.07	-6.07
7	7215	61.06 PK	74	-12.94	158	319	60.77	0.29
8	7215	50.66 AV	54	-3.34	158	319	50.37	0.29

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) - Pre-amplifier Gain (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Test in Lab B

Band edge Plot



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	(dBuV)	(dB/m)
1	*2440	84.56 PK	114	-29.44	136	113	95.94	-11.38
2	*2440	74.16 AV	94	-19.84	136	113	85.54	-11.38
3	4880	56.95 PK	74	-17.05	151	176	63.02	-6.07
4	4880	46.55 AV	54	-7.45	151	176	52.62	-6.07
5	7320	63.16 PK	74	-10.84	161	317	62.87	0.29
6	7320	52.76 AV	54	-1.24	161	317	52.47	0.29
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	FREQ.	Emission Level	Limit	Margin	Height	Degree	Raw Value	Correction Factor
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	(dBuV)	((dB/m)
1	*2440	87.49 PK	114	-26.51	148	201	98.87	-11.38
2	*2440	77.09 AV	94	-16.91	148	201	88.47	-11.38
3	4880	58.1 PK	74	-15.9	142	309	64.17	-6.07
4	4880	47.7 AV	54	-6.3	142	309	53.77	-6.07
5	7320	61.02 PK	74	-12.98	138	68	60.73	0.29
6	7320	50.62 AV	54	-3.38	138	68	50.33	0.29

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) - Pre-amplifier Gain (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Test in Lab B

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

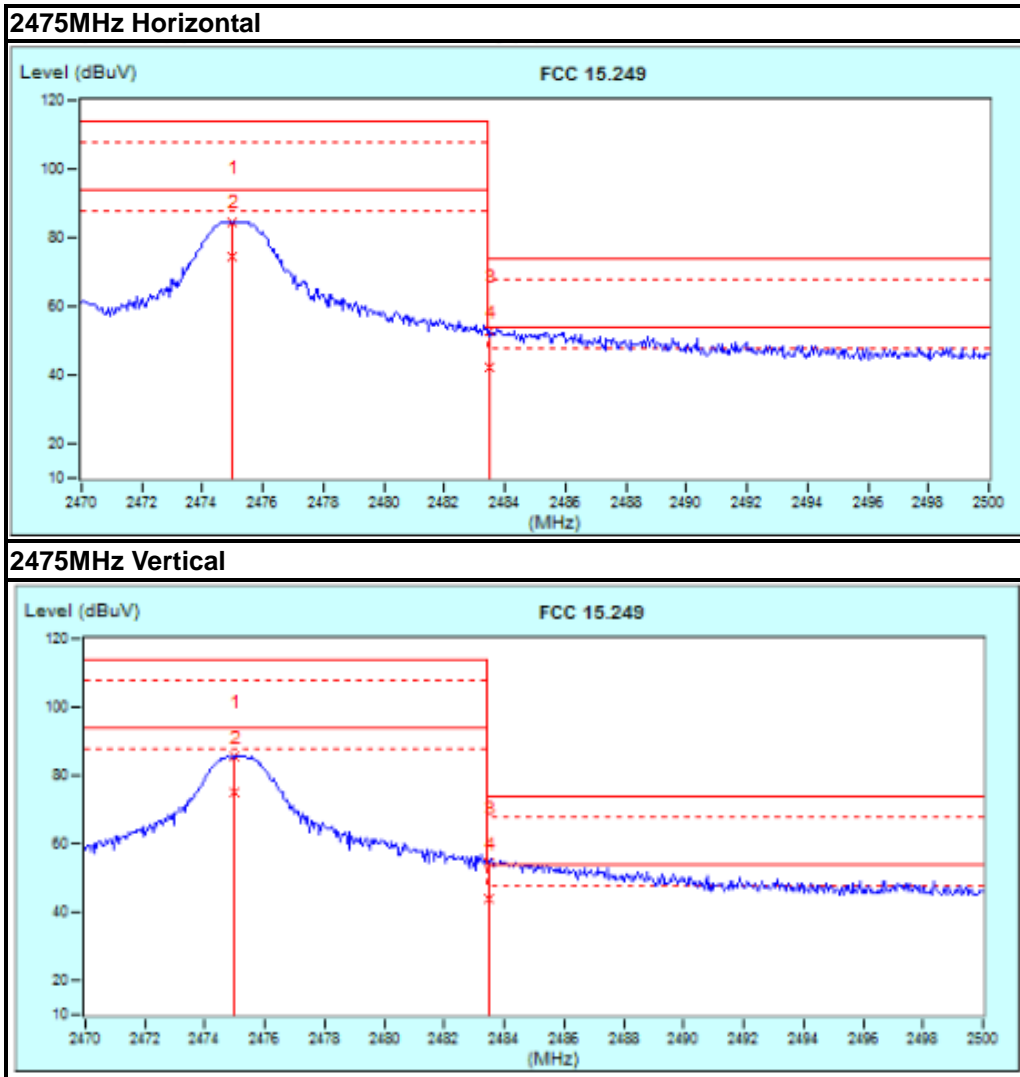
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	FREQ. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Raw Value (dBuV)	Correctio n Factor (dB/m)
1	2483.5	52.9 PK	74	-21.1	154	123	64.28	-11.38
2	2483.5	42.5 AV	54	-11.5	154	123	53.88	-11.38
3	*2475	84.72 PK	114	-29.28	164	219	96.1	-11.38
4	*2475	74.32 AV	94	-19.68	164	219	85.7	-11.38
5	4950	58.46 PK	74	-15.54	153	278	64.53	-6.07
6	4950	48.06 AV	54	-5.94	153	278	54.13	-6.07
7	7425	63.4 PK	74	-10.6	147	262	63.11	0.29
8	7425	53 AV	54	-1	147	262	52.71	0.29
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
No.	FREQ. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Raw Value (dBuV)	Correctio n Factor (dB/m)
1	2483.5	54.51 PK	74	-19.49	166	159	65.89	-11.38
2	2483.5	44.11 AV	54	-9.89	166	159	55.49	-11.38
3	*2475	85.67 PK	114	-28.33	151	92	97.05	-11.38
4	*2475	75.27 AV	94	-18.73	151	92	86.65	-11.38
5	4950	57.56 PK	74	-16.44	147	117	63.63	-6.07
6	4950	47.16 AV	54	-6.84	147	117	53.23	-6.07
7	7425	62.12 PK	74	-11.88	168	229	61.83	0.29
8	7425	51.72 AV	54	-2.28	168	229	51.43	0.29

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) - Pre-amplifier Gain (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Test in Lab B



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.	Last Cal.	Next Cal.
Wireless Connectivity Tester	R&S	CMW270	1201.0002K75	Dec. 28, 19	Dec. 27, 20
MXA VEXTOR SIGNAL	Agilent	n5182a	MY50140530	Mar. 24, 20	Mar. 24, 21
MXA signal analyzer	Agilent	n9020a	MY49100060	Mar. 24, 20	Mar. 24, 21
RF Control Unit	Tonscend	JS0806-2	188060112	Mar. 24, 20	Mar. 24, 21
Signal Generation	Agilent	E4421B	US40051152	Dec. 18, 19	Dec. 17, 20
DC Power Supply	Agilent	E3640A	MY40004013	Mar. 30, 20	Mar. 30, 21
Programmable Temperature & Humidity Chamber	Hongjin	HYC-TH-225 DH	DG-180746	Mar. 24, 20	Mar. 24, 21
Test System	Tonscend	JS 1120-3	N/A	N/A	N/A
Power Splitter	Weinschel	1580-1	TL177	Mar. 27, 20	Mar. 27, 21

NOTE:

1. The test was performed in RF Oven room.
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.

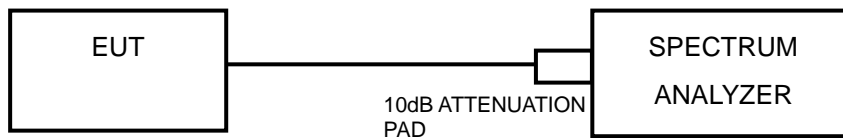
4.2.3 TEST PROCEDURE

- 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.

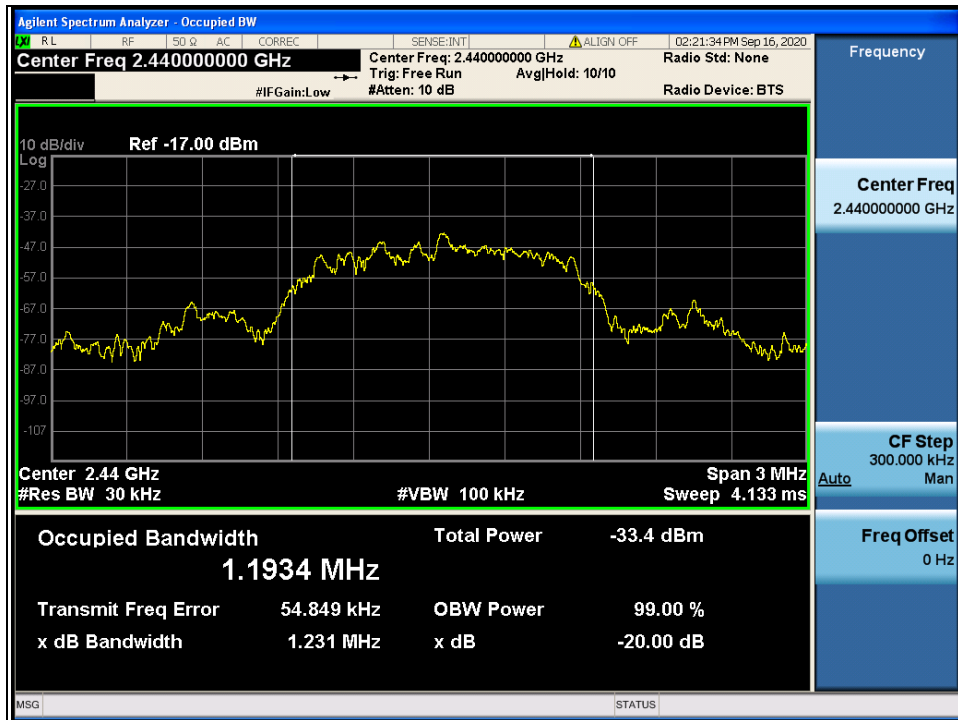
4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2405	1.218
Middle	2440	1.231
High	2475	1.240

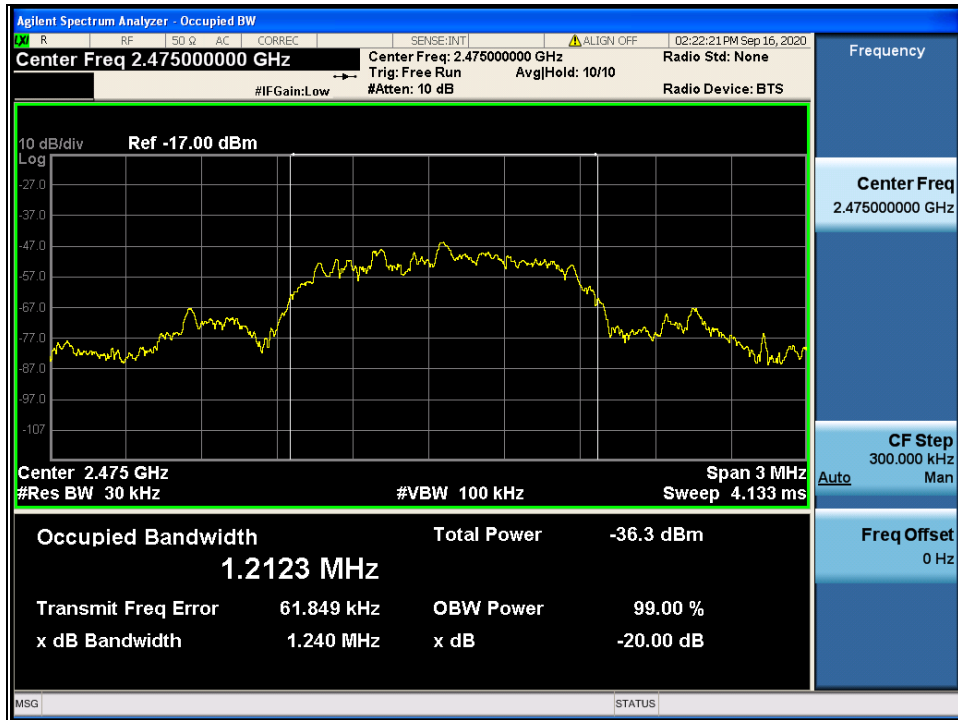
Test Data: Low channel



Test Data: Middle channel



Test Data: High channel





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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---