



RADIO TEST REPORT

Report No.: SHATBL2202030W02

Applicant:
Wanbang Digital Energy Co., Ltd

Address:
No.39 Longhui Road, high and new technology industrial development
zones of Wujin, Changzhou, Jiangsu, China

Product Name	:	MiniArm
Brand Name	:	ZLG
Model Name	:	A6G2C-W128LI
Series Model	:	A6G2C-W256LI/A6G2C-W512LI
Test Standard	:	FCC Part15.247 RSS-247 Issue 2, February 2017 RSS-Gen Issue 5 ,March 2019
FCC ID	:	2A4VDA6G2CW128LI

"Shanghai ATBL Technology Co., Ltd." hereby certifies that according to actual testing conditions. The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, ATBL shall not assume any responsibility. The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material. This report will be void without authorized signature or special seal for testing report. Do not copied without authorization.

Tel:+86(0)21-51298625

Web:www.atbl-lab.com

Email:atbl@atbl-lab.com

TEST RESULT CERTIFICATION

Applicant's Name: Wanbang Digital Energy Co., Ltd
Address: No.39 Longhui Road, high and new technology industrial development zones of Wujin, Changzhou, Jiangsu, China
Manufacturer's Name: GUANGZHOU ZHIYUAN ELECTRONICS CO.,LTD
Address: ROOM 306, 3F, NO.43, SICHENG ROAD, SOFTWARE PARK, TIANHE DISTRICT, GUANGZHOU, GUANGDONG, CHINA

Product Description

Product Name: MiniArm
Brand Name: ZLG
Model Name: A6G2C-W128LI
Series Model: A6G2C-W256LI/A6G2C-W512LI
FCC Part15.247
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 ,March 2019

Test Standards: ANSI C63.10-2013

This device described above has been tested by ATBL, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.

Date of Test:

Date of receipt of test item: 23 Feb. 2022
Date (s) of performance of tests: 23 Feb. 2022 ~ 10 Mar. 2022
Date of Issue: 11 Mar. 2022
Test Result: **Pass**

Report Prepared by :

Roean Wei

(Roean Wei)

Report Approved by :

Ghost Li.

(Ghost Li)

Authorized Signatory :

Terry Yang

(Terry Yang)



Table of Contents

	Page
1. SUMMARY OF TEST RESULTS	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	9
2.3 TEST SOFTWARE AND POWER LEVEL	9
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.6 LABORATORY INFORMATION	11
2.7 MEASUREMENT UNCERTAINTY	12
2.8 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	15
3.1 CONDUCTED EMISSION MEASUREMENT	15
3.2 RADIATED EMISSION MEASUREMENT	19
4. CONDUCTED SPURIOUS & BAND EDGE EMISSION	35
4.1 LIMIT	35
4.2 TEST PROCEDURE	35
4.3 DEVIATION FROM STANDARD	35
4.4 TEST SETUP	35
4.5 EUT OPERATION CONDITIONS	35
4.6 TEST RESULTS	36
5. POWER SPECTRAL DENSITY TEST	44
5.1 LIMIT	44
5.2 TEST PROCEDURE	44
5.3 DEVIATION FROM STANDARD	44
5.4 TEST SETUP	44
5.5 EUT OPERATION CONDITIONS	44
5.6 TEST RESULTS	45
6. BANDWIDTH TEST	50
6.1 LIMIT	50
6.2 TEST PROCEDURE	50
6.3 DEVIATION FROM STANDARD	50
6.4 TEST SETUP	50
6.5 EUT OPERATION CONDITIONS	50

Table of Contents

	Page
6.6 TEST RESULTS	50
7. PEAK OUTPUT POWER TEST	56
7.1 LIMIT	56
7.2 TEST PROCEDURE	56
7.3 DEVIATION FROM STANDARD	56
7.4 TEST SETUP	56
7.5 EUT OPERATION CONDITIONS	56
7.6 TEST RESULTS	57
8. ANTENNA REQUIREMENT	59
8.1 STANDARD REQUIREMENT	59
8.2 EUT ANTENNA	59
APPENDIX-PHOTOS OF TEST SETUP	60

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	11 Mar. 2022	SHATBL2202030W02	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB&99% Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247(d) & 15.209 & 15.205	Radiated Spurious Emission	PASS	--
§15.247(d) & 15.205	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted bands of operation	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	MiniArm
Trade Name	ZLG
Model Name	A6G2C-W128LI
Series Model	A6G2C-W256LI/A6G2C-W512LI
Model Difference	NAND flash and DDR have different capacities
Product Description	The EUT is a MiniArm
	Operation Frequency: 802.11b/g/n 20: 2412~2462 MHz
	Modulation Type: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter: 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz):MCS7/MCS6/MCS5/MCS4/MCS3/MCS2/MCS1/MCS0
	Number of Channel: 802.11b/g/n20: 11CH
	Antenna Designation: Please refer to the Note 3.
	Antenna Gain (dBi): 2 dBi
	Duty Cycle: >95%
Channel List	Please refer to the Note 2.
Power Rating	AC120V,50/60Hz
Adapter	None
Hardware version number	1.01
Software version number	1.01
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

Operation Frequency of channel	
802.11b/g/n(20MHz)	
Channel	Frequency
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selectedchannel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462

3.

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ZLG	A6G2C-W128L I	Sucker antenna	N/A	2 dBi	WLAN ANT

2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report.

Conducted Emission

Test Case	
Conducted Emission	Mode13: Keeping WIFI TX

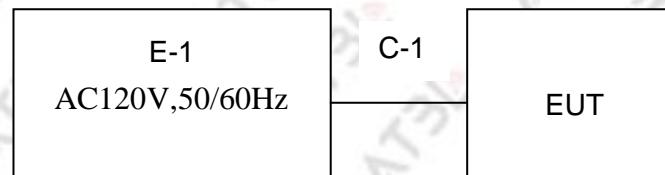
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

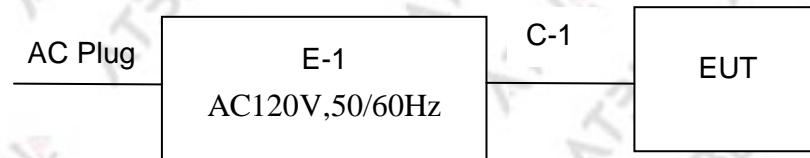
RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	2	0	putty-tray
		802.11g		0	
		802.11n(HT20)		0	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Type No.	Note
E-2	Notebook	Lenovo	DESKTOP-USDE009	00326-10000-00000-AA636	N/A
C-1	USB Cable	N/A	100cm	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.6 LABORATORY INFORMATION

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	Building 8, No. 160, Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone:	+86(0)21-51298625
The FCC Registration Number (FRN):	0031025281
A2LA Number:	6184.01
CNAS Number:	CNAS L14531

2.7 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.962\text{dB}$
2	Conducted spurious emissions	$\pm 2.986\text{dB}$
3	All emissions, radiated 30MHz-1GHz	$\pm 2.49\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.50\text{dB}$
5	Occupied bandwidth	$\pm 2.336\text{dB}$
6	Power spectral density	$\pm 0.866\text{dB}$

2.8 EQUIPMENTS LIST

2.8.1 Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
Test Receiver	R&S	ESCI	100469	SHATBL-E003	2022.07.13
Spectrum Analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2022.07.13
Bilog Antenna	SCHWARZBECK	VLUB 9168	01174	SHATBL-E008	2023.09.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	SHATBL-E009	2023.09.27
Pre-Amplifier (0.1M-3GHz)	JPT	JPA-10M1G35	2101010003500 1	SHATBL-E005	2022.10.07
Pre-Amplifier (1G-18GHz)	JPT	JPA0118-55-30 3A	1910001800055 000	SHATBL-E006	2022.07.13
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E016	2022.10.08
Antenna/Turntable Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A
Test SW	FALA	EMC-RI(Ver.4A2)		SHATBL-E046	N/A

2.8.2 Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibration date
Test Receiver	R&S	ESPI	101679	SHATBL-E012	2022.07.13
LISN	R&S	ENV216	101300	SHATBL-E013	2022.07.13
LISN	R&S	ENV216	100333	SHATBL-E041	2022.03.08
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E015	2022.10.07
Test SW	FALA	EZ-EMC(Ver.EMC-CON3A1.1)		SHATBL-E044	N/A

2.8.3 RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until
Power meter (with pulse power sensor)	Anritsu	ML2496A	1935001	SHATBL-W030	2022.10.26
Pulse power sensor (with power meter)	Anritsu	MA2411B	1911006	SHATBL-W031	2022.10.26
Signal Analyzer	Agilent	N9020A	MY57300196	SHATBL-W004	2022.10.07
Signal Generator	Agilent	N5182B	MY46240556	SHATBL-W005	2022.10.07
Wireless Communications Test Set	R&S	CMW500	101331	SHATBL-W007	2022.10.07
Temperature & Humidity	Deli	deli	N/A	SHATBL-W011	2022.10.07
Attenuator	Agilent	8494B	DC-18G	SHATBL-W009	2022.10.07
Attenuator	Agilent	8496B	DC-18G	SHATBL-W010	2022.10.07
power splitter	MNK	MPD-DC/6-2S	62315 G51	SHATBL-W015	2022.10.07
			62315 G52	SHATBL-W016	2022.10.07
Filter	Chengdu kangmaiwei	ZBSF-C2400-2483.5-T3	N/A	SHATBL-W021	N/A
Constant temperature and humidity box	KSON	THS-B6C-150	6159K	SHATBL-W019	2023.01.17
Test SW	FALA	LZ-RF(Ver.LzRF-03A3.1)		SHATBL-W020	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

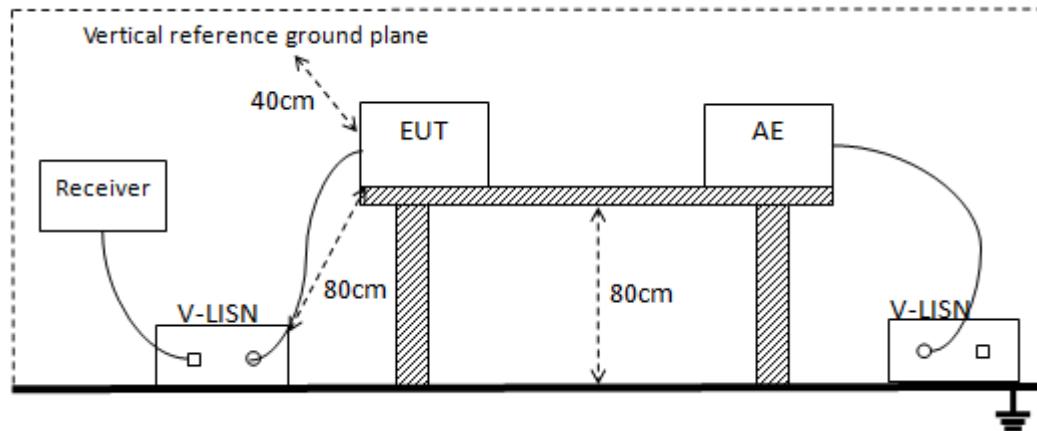
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

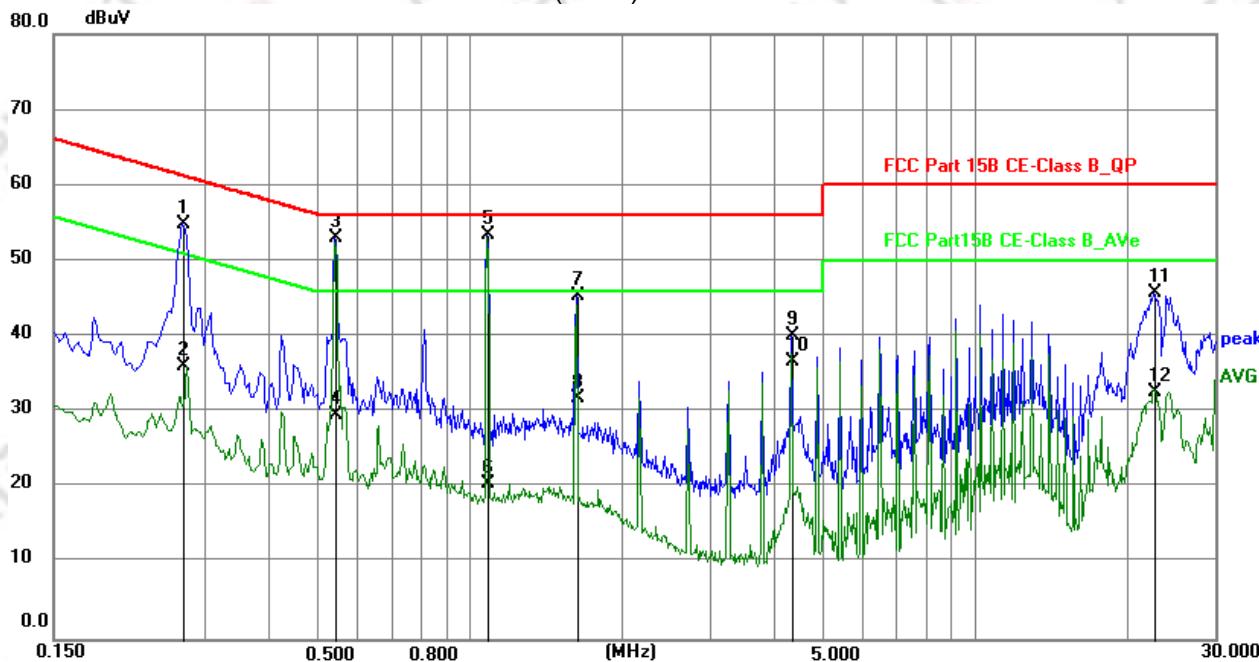
3.1.5 TEST RESULT

Temperature:	26.2°C	Relative Humidity:	53%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2714	44.93	10.08	55.01	61.07	-6.06	QP
2	0.2714	26.02	10.08	36.10	51.07	-14.97	AVG
3	0.5413	42.98	10.04	53.02	56.00	-2.98	QP
4	0.5413	19.61	10.04	29.65	46.00	-16.35	AVG
5	1.0859	43.62	9.94	53.56	56.00	-2.44	QP
6	1.0859	10.66	9.94	20.60	46.00	-25.40	AVG
7	1.6304	35.57	9.96	45.53	56.00	-10.47	QP
8	1.6304	22.06	9.96	32.02	46.00	-13.98	AVG
9	4.3482	30.10	10.06	40.16	56.00	-15.84	QP
10	4.3482	26.62	10.06	36.68	46.00	-9.32	AVG
11	22.6950	34.80	10.97	45.77	60.00	-14.23	QP
12	22.6950	21.82	10.97	32.79	50.00	-17.21	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit.
3. Factor=LISN factor+Cable loss+Limiter (10dB)

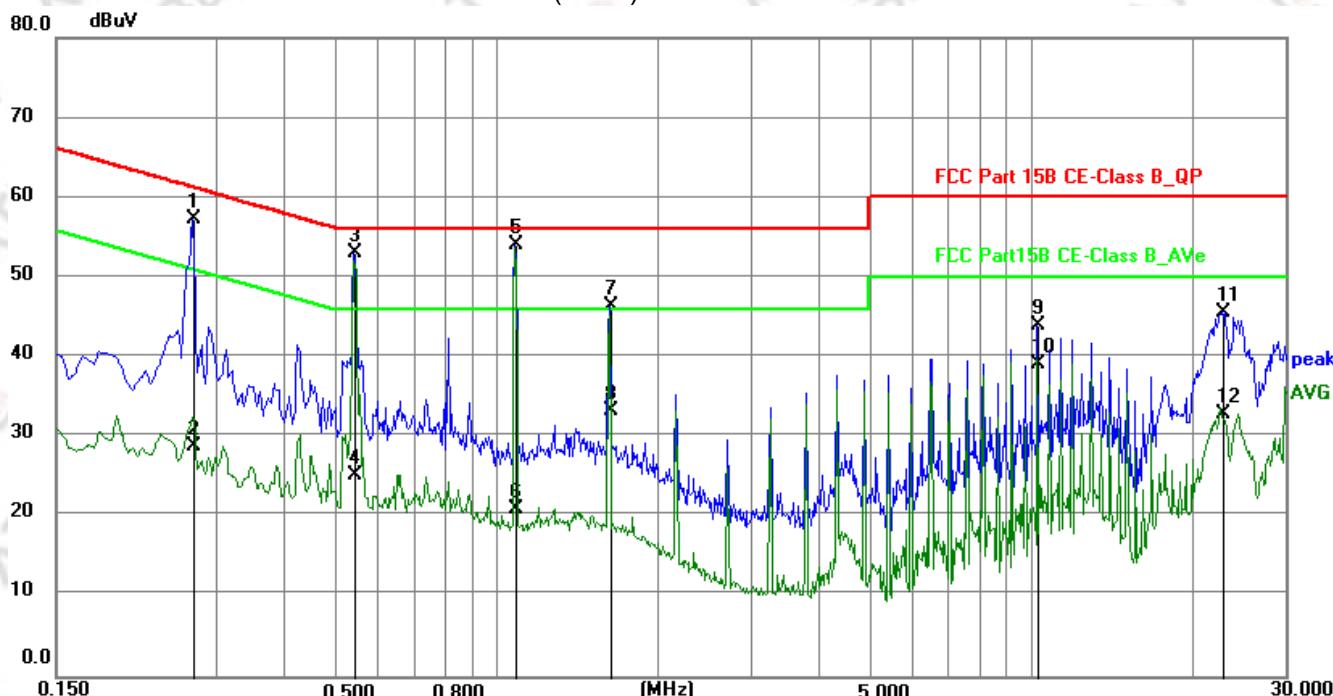


Temperature:	26.2°C	Relative Humidity:	53%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2714	47.05	10.34	57.39	61.07	-3.68	QP
2	0.2714	18.58	10.34	28.92	51.07	-22.15	AVG
3	0.5414	42.87	10.18	53.05	56.00	-2.95	QP
4	0.5414	15.10	10.18	25.28	46.00	-20.72	AVG
5	1.0859	43.99	10.15	54.14	56.00	-1.86	QP
6	1.0859	10.95	10.15	21.10	46.00	-24.90	AVG
7	1.6304	36.32	10.19	46.51	56.00	-9.49	QP
8	1.6304	23.13	10.19	33.32	46.00	-12.68	AVG
9	10.3245	33.94	10.15	44.09	60.00	-15.91	QP
10	10.3245	29.12	10.15	39.27	50.00	-10.73	AVG
11	22.8389	34.93	10.76	45.69	60.00	-14.31	QP
12	22.8389	22.21	10.76	32.97	50.00	-17.03	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit.
3. Factor=LISN factor+Cable loss+Limiter (10dB)



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies (MHz)	Field Strength (microvolt/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FCC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

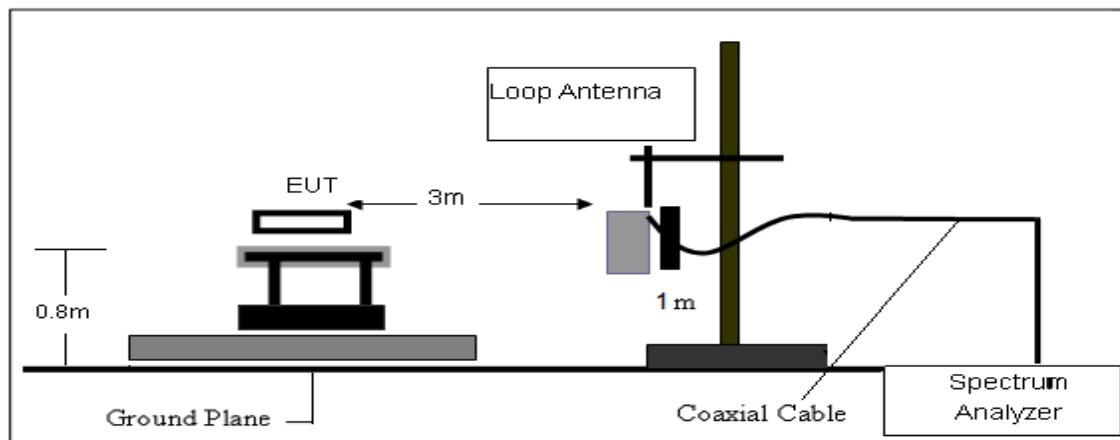
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

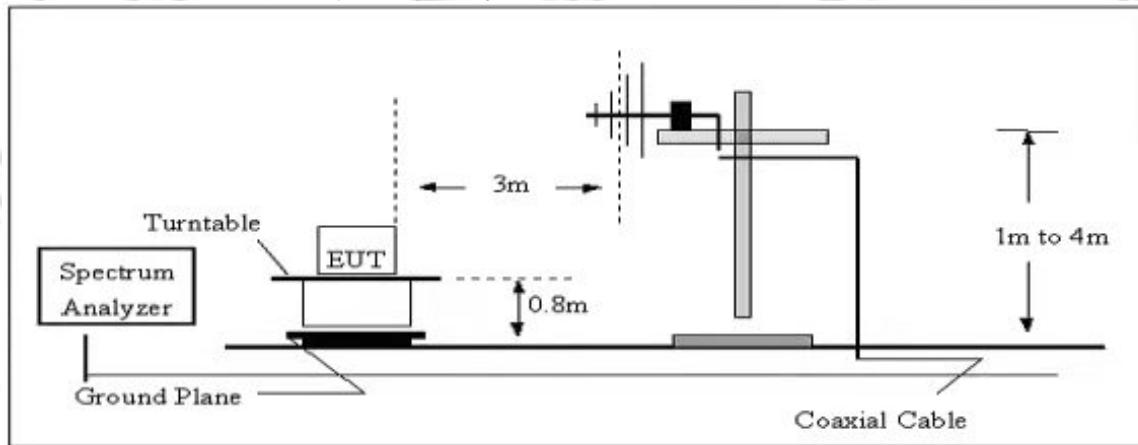
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

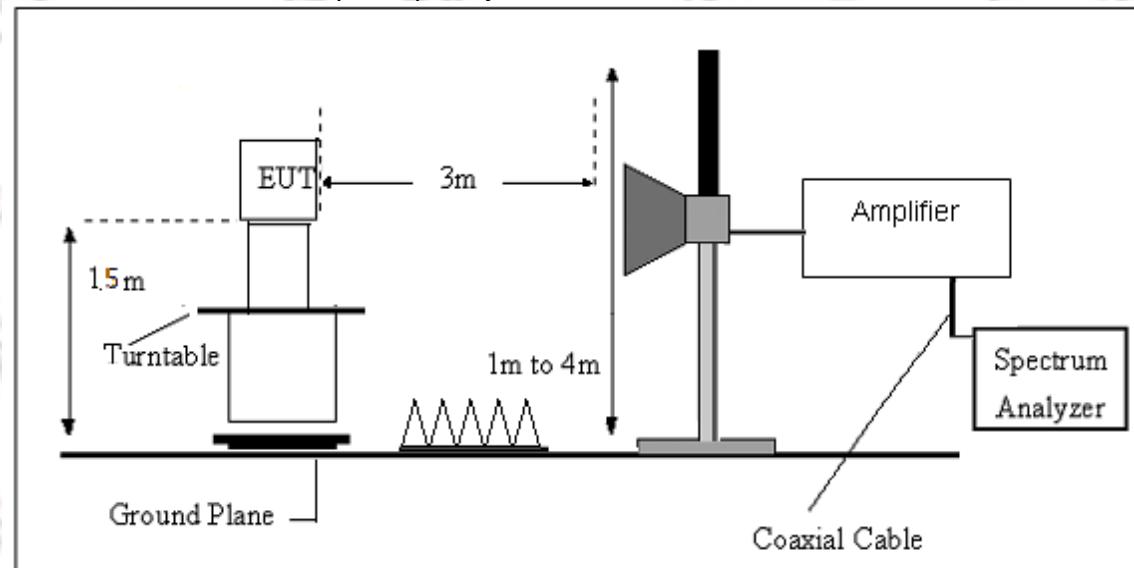
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$

3.2.6 TEST RESULTS(RADIATED SPURIOUS EMISSIONS)

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Polarization:	--
Test Mode:	TX Mode		

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

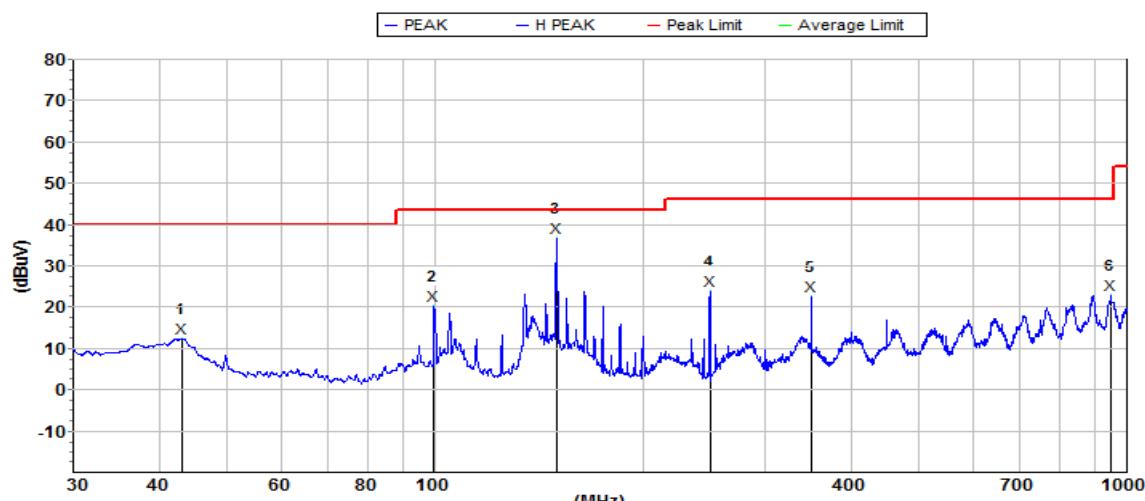
Limit line = specific limits(dBuV) + distance extrapolation factor.

30MHz - 18000MHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	Mode 1/3/4/6/7/9 (Mode 4/6 worst mode)		

30MHz~1GHz

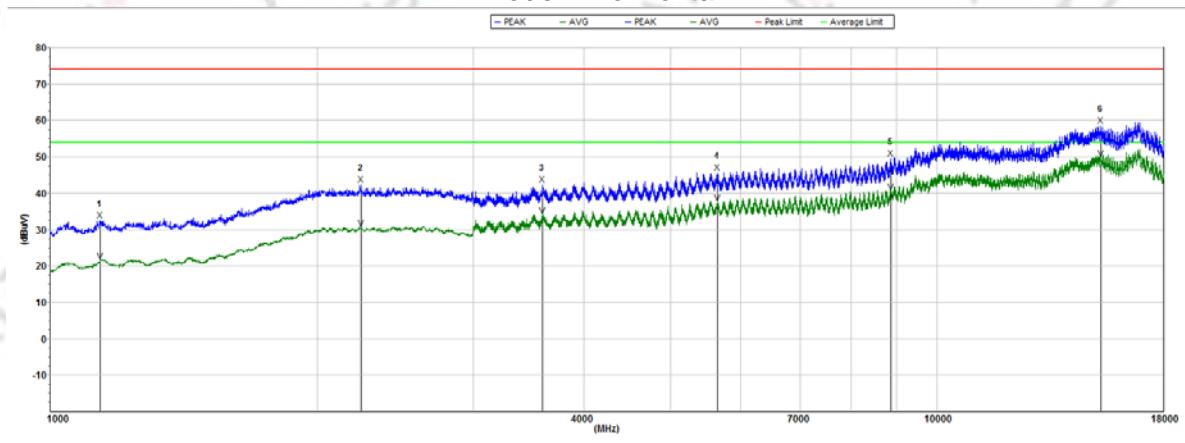
Mode 4 Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	43.050457	12.5	40.0	27.5	13.9	32.5	H
2	99.702770	20.5	43.5	23.0	10.1	32.9	H
3	149.748044	36.9	43.5	6.6	14.1	32.9	H
4	249.862716	24.0	46.0	22.0	11.6	32.8	H
5	349.862839	22.8	46.0	23.2	13.4	32.5	H
6	948.760988	23.1	46.0	22.9	20.3	31.3	H

1GHz~18GHz

Mode 4 Horizontal

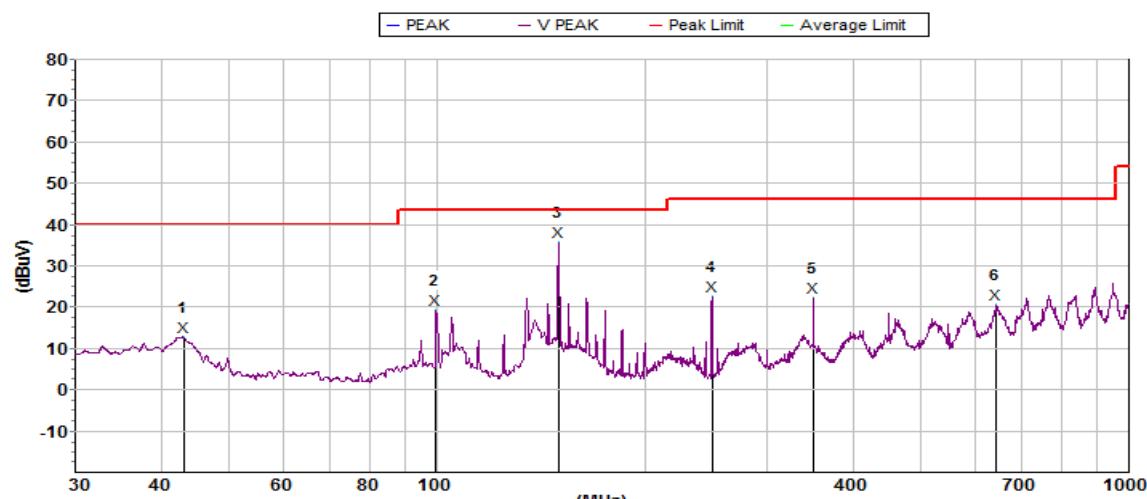


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	1138.000000	32.5	74.0	41.5	20.7	57.3	H
2	2243.000000	42.3	74.0	31.7	22.5	50.1	H
3	3591.000000	42.4	74.0	31.6	24.2	50.4	H
4	5649.750000	45.7	74.0	28.3	25.0	49.0	H
5	8861.250000	49.6	74.0	24.4	26.8	48.6	H
6	15281.250000	58.5	74.0	15.5	30.5	47.3	H
Avg							
1	1138.000000	21.3	54.0	32.7	20.7	57.3	H
2	2243.000000	30.3	54.0	23.7	22.5	50.1	H
3	3591.000000	33.9	54.0	20.1	24.2	50.4	H
4	5649.750000	37.4	54.0	16.6	25.0	49.0	H
5	8861.250000	40.3	54.0	13.7	26.8	48.6	H
6	15281.250000	49.5	54.0	4.5	30.5	47.3	H

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	Mode 1/3/4/6/7/9 (Mode 4/6 worst mode)		

30MHz~1GHz

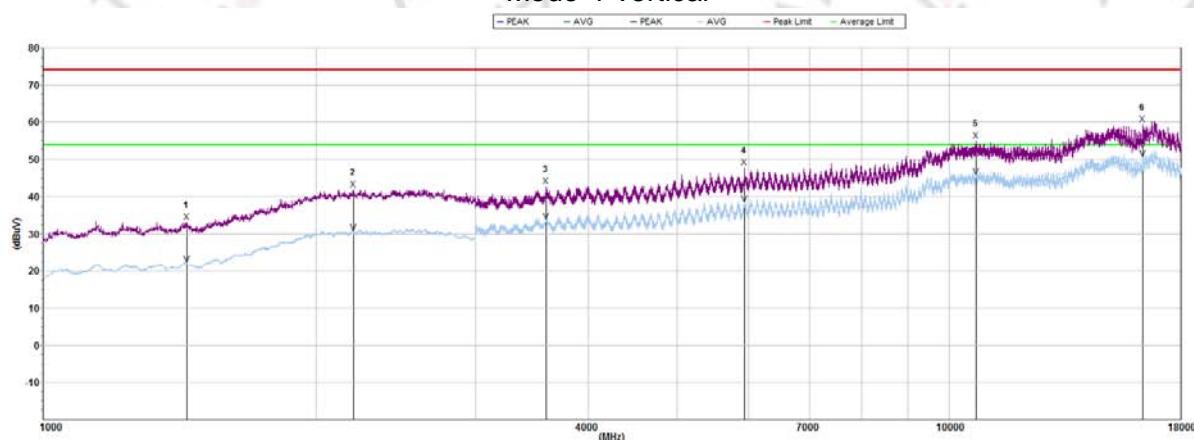
Mode 4 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	43.050457	12.9	40.0	27.1	13.9	32.5	V
2	99.702770	19.4	43.5	24.1	10.1	32.9	V
3	149.748044	35.9	43.5	7.6	14.1	32.9	V
4	249.862716	22.9	46.0	23.1	11.6	32.8	V
5	349.862839	22.3	46.0	23.7	13.8	32.5	V
6	643.989398	20.9	46.0	25.1	19.3	32.3	V

1GHz~18GHz

Mode 4 Vertical



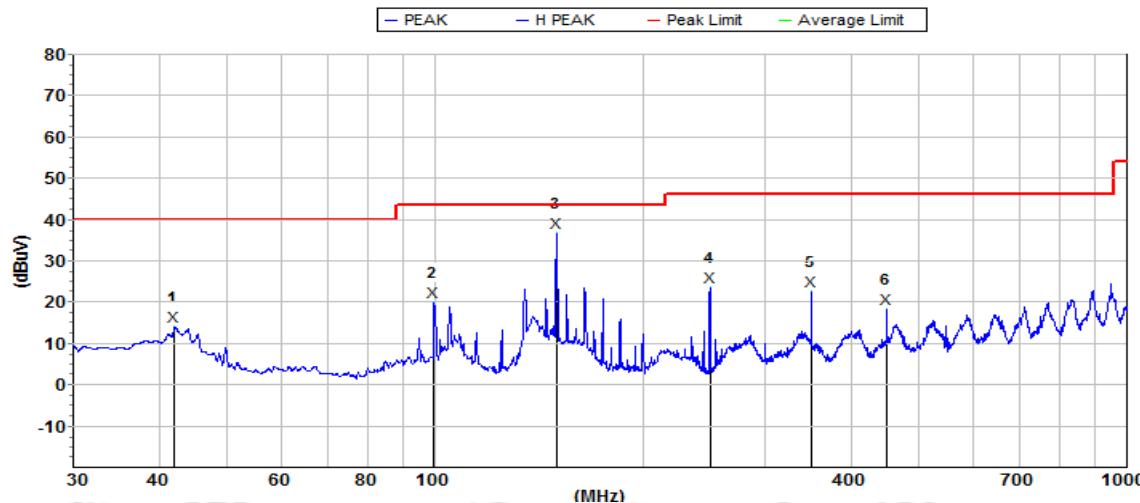
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	1441.000000	33.2	74.0	40.8	1441.000000	33.2	V
2	2199.000000	41.9	74.0	32.1	2199.000000	41.9	V
3	3592.500000	42.7	74.0	31.3	3592.500000	42.7	V
4	5940.000000	47.9	74.0	26.1	5940.000000	47.9	V
5	10703.250000	55.0	74.0	19.0	10703.250000	55.0	V
6	16352.250000	59.5	74.0	14.5	16352.250000	59.5	V
Avg							
1	1441.000000	21.9	54.0	32.1	1441.000000	21.9	V
2	2199.000000	30.3	54.0	23.7	2199.000000	30.3	V
3	3592.500000	33.3	54.0	20.7	3592.500000	33.3	V
4	5940.000000	38.0	54.0	16.0	5940.000000	38.0	V
5	10703.250000	45.4	54.0	8.6	10703.250000	45.4	V
6	16352.250000	50.2	54.0	3.8	16352.250000	50.2	V

30MHz - 18000MHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	Mode 1/3/4/6/7/9 (Mode 4/6 worst mode)		

30MHz~1GHz

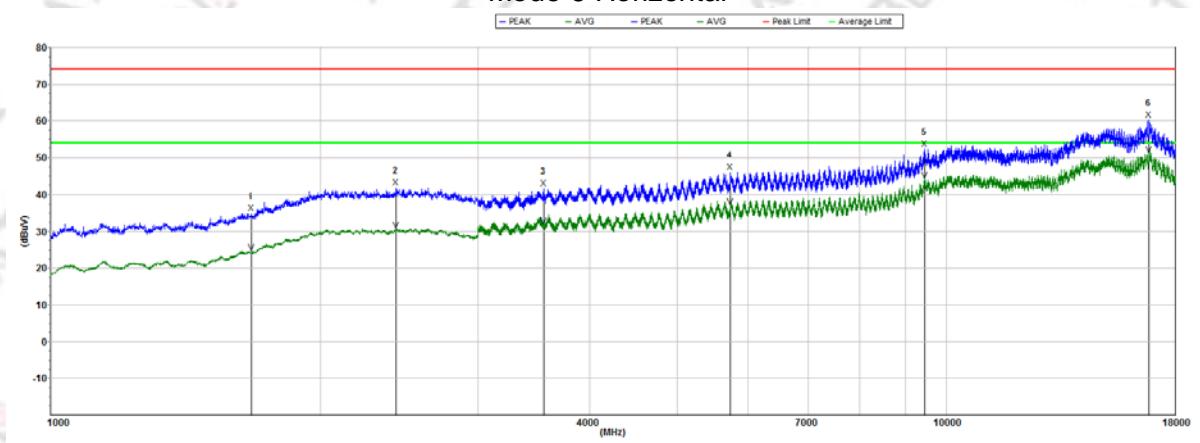
Mode 6 Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	42.080322	14.1	40.0	25.9	14.0	32.4	H
2	99.702770	20.2	43.5	23.3	10.1	32.9	H
3	149.748044	36.8	43.5	6.7	14.1	32.9	H
4	249.862716	23.8	46.0	22.2	11.6	32.8	H
5	349.862839	22.9	46.0	23.1	13.4	32.5	H
6	449.555842	18.4	46.0	27.6	14.3	32.4	H

1GHz~18GHz

Mode 6 Horizontal

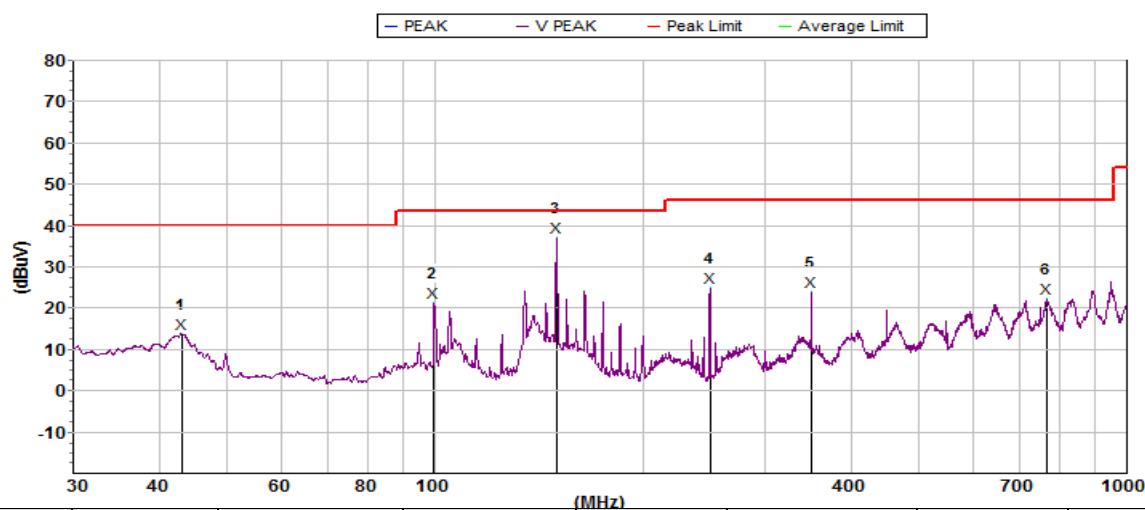


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	1675.000000	35.0	74.0	39.0	21.4	54.8	H
2	2432.000000	41.9	74.0	32.1	22.8	50.2	H
3	3555.750000	41.6	74.0	32.4	24.2	50.5	H
4	5736.000000	46.0	74.0	28.0	25.0	49.0	H
5	9447.000000	52.4	74.0	21.6	27.2	48.6	H
6	16830.750000	60.3	74.0	13.7	30.9	47.4	H
Avg							
1	1675.000000	24.2	54.0	29.8	21.4	54.8	H
2	2432.000000	30.4	54.0	23.6	22.8	50.2	H
3	3555.750000	31.5	54.0	22.5	24.2	50.5	H
4	5736.000000	36.6	54.0	17.4	25.0	49.0	H
5	9447.000000	44.0	54.0	10.0	27.2	48.6	H
6	16830.750000	50.8	54.0	3.2	30.9	47.4	H

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	Mode 1/3/4/6/7/9 (Mode 4/6 worst mode)		

30MHz~1GHz

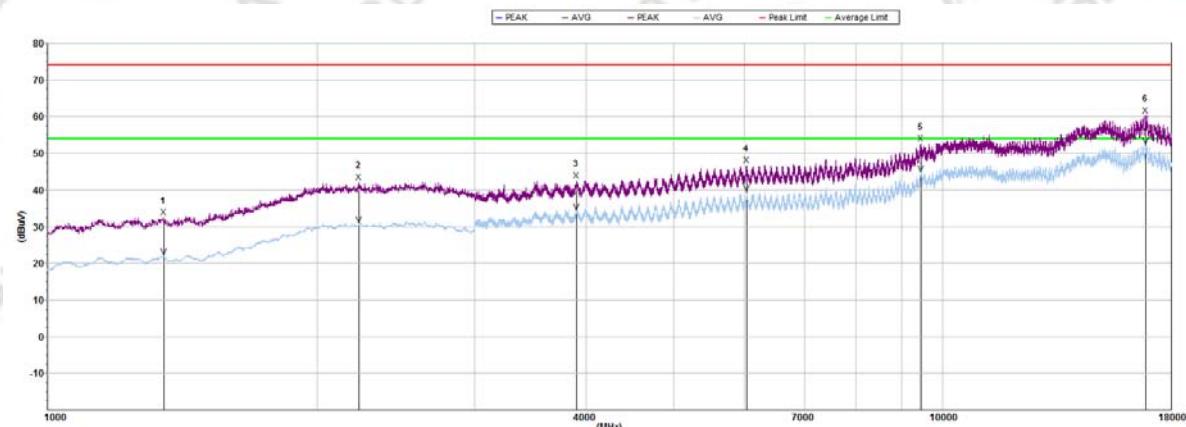
Mode 6 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	43.050457	13.9	40.0	26.1	13.9	32.5	V
2	99.702770	21.3	43.5	22.2	10.1	32.9	V
3	149.748044	37.3	43.5	6.2	14.1	32.9	V
4	249.862716	25.0	46.0	21.0	11.6	32.8	V
5	349.862839	24.1	46.0	21.9	13.8	32.5	V
6	764.715294	22.4	46.0	23.6	20.4	32.2	V

1GHz~18GHz

Mode 6 Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Pol.
Peak:							
1	1349.000000	32.5	74.0	41.5	20.8	57.3	V
2	2226.000000	42.2	74.0	31.8	22.8	50.1	V
3	3897.750000	42.5	74.0	31.5	24.7	50.2	V
4	6042.000000	46.7	74.0	27.3	25.6	48.9	V
5	9444.750000	52.7	74.0	21.3	27.8	48.6	V
6	16842.750000	60.4	74.0	13.6	31.4	47.4	V
Avg							
1	1349.000000	21.7	54.0	32.3	20.8	57.3	V
2	2226.000000	30.6	54.0	23.4	22.8	50.1	V
3	3897.750000	34.0	54.0	20.0	24.7	50.2	V
4	6042.000000	39.1	54.0	14.9	25.6	48.9	V
5	9444.750000	44.3	54.0	9.7	27.8	48.6	V
6	16842.750000	51.9	54.0	2.1	31.4	47.4	V

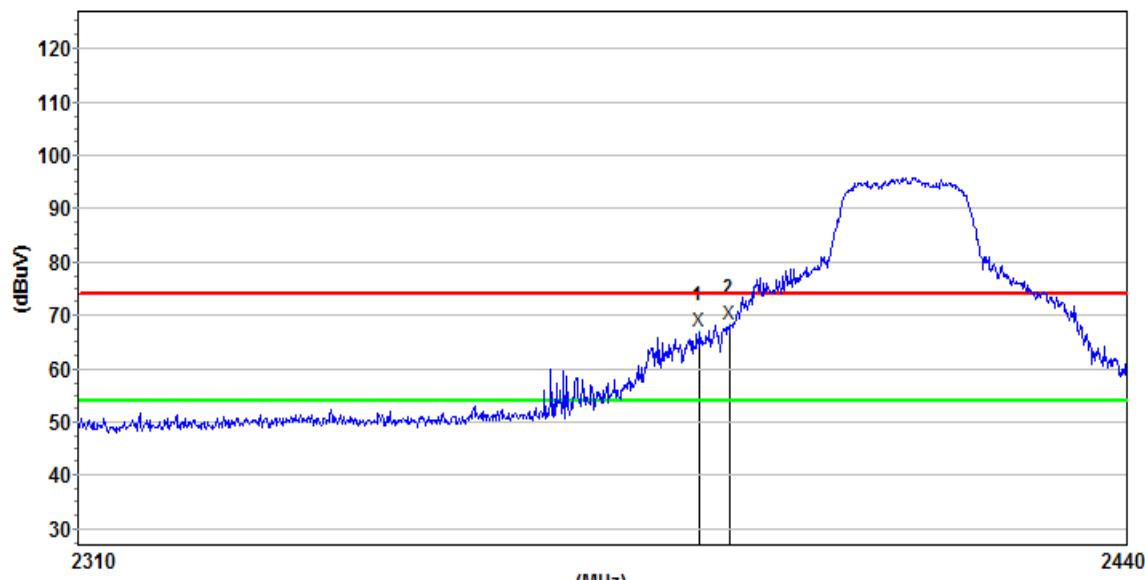
Note:

1. Factor=Ant.Factor+cable loss-Amp.Gain .
2. Level contains the factor; Margin=Limit-Level.
3. 802.11b, 802.11g, 802.11n (HT-20), mode all have been tested, the worst case is 802.11g, only show the worst case.

3.2.6 TEST RESULTS (BAND EDGE REQUIREMENTS)

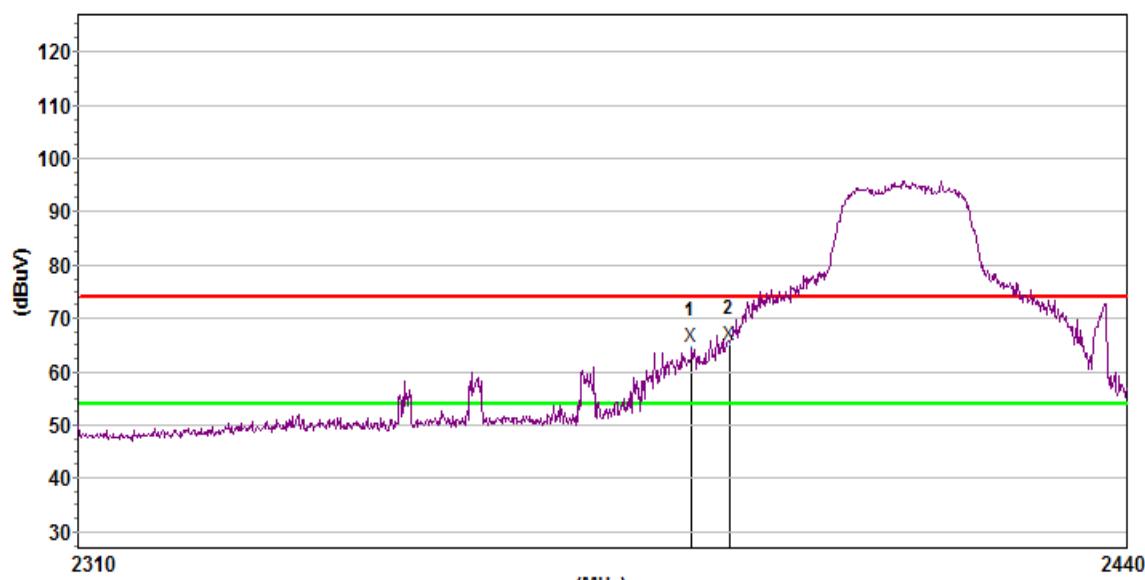
802.11g-Low

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2386.229678	67.1	74.0	6.9	22.8	50.2	2.8	H
2	2390.000000	68.5	74.0	5.5	22.8	50.2	2.8	H

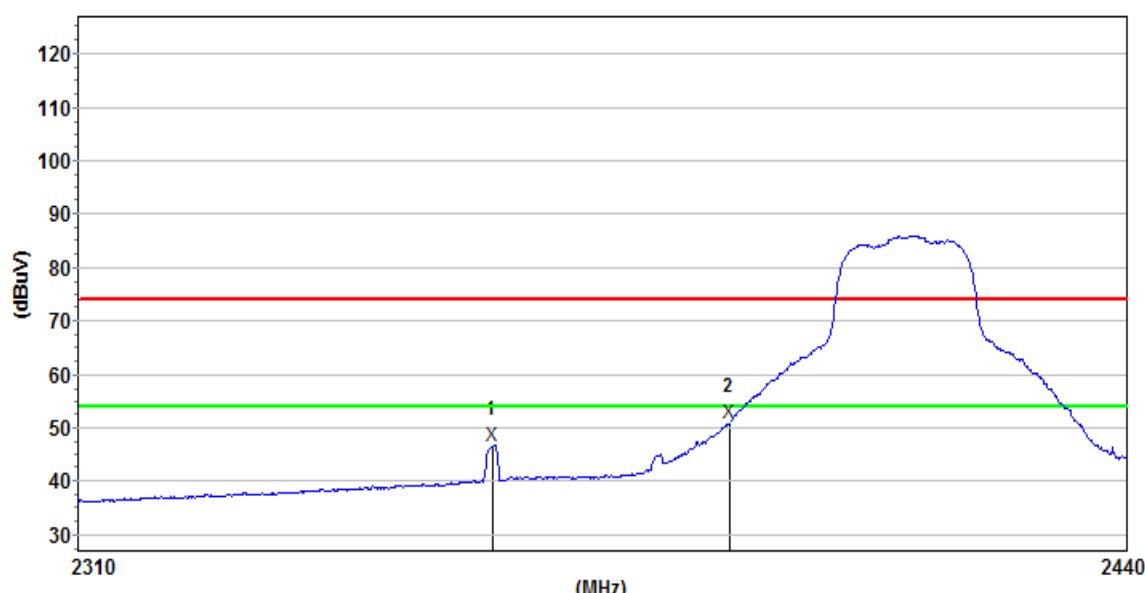
Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2385.184729	64.9	74.0	9.1	23.1	50.2	2.8	V
2	2390.000000	65.3	74.0	8.7	23.1	50.2	2.8	V

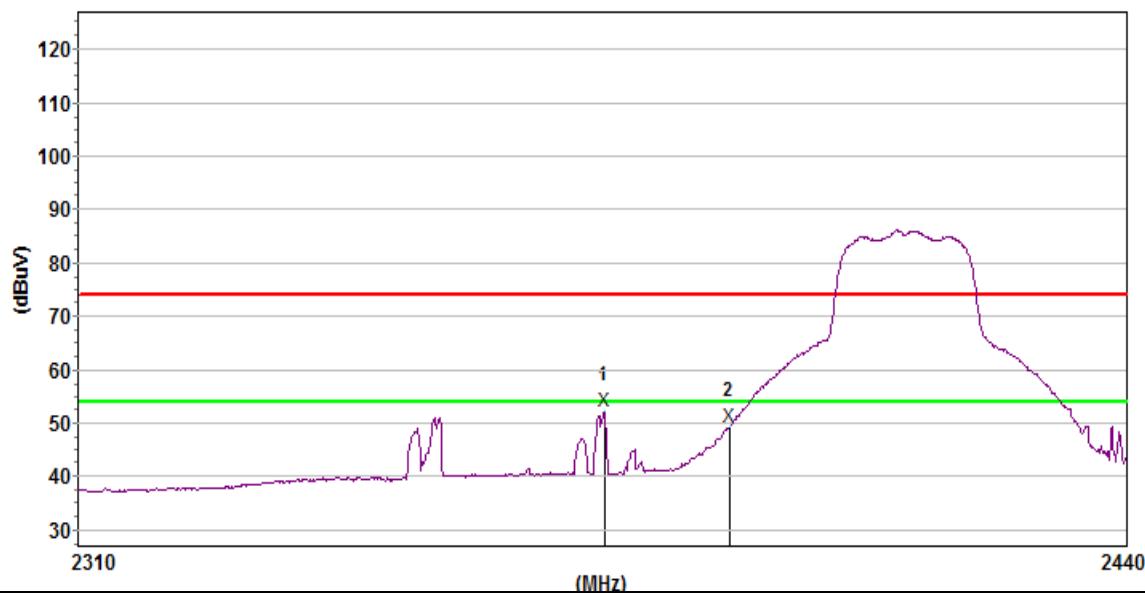
802.11g-Low

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2360.501220	46.7	54.0	7.3	22.7	50.2	2.8	H
2	2390.000000	51.1	54.0	2.9	22.8	50.2	2.8	H

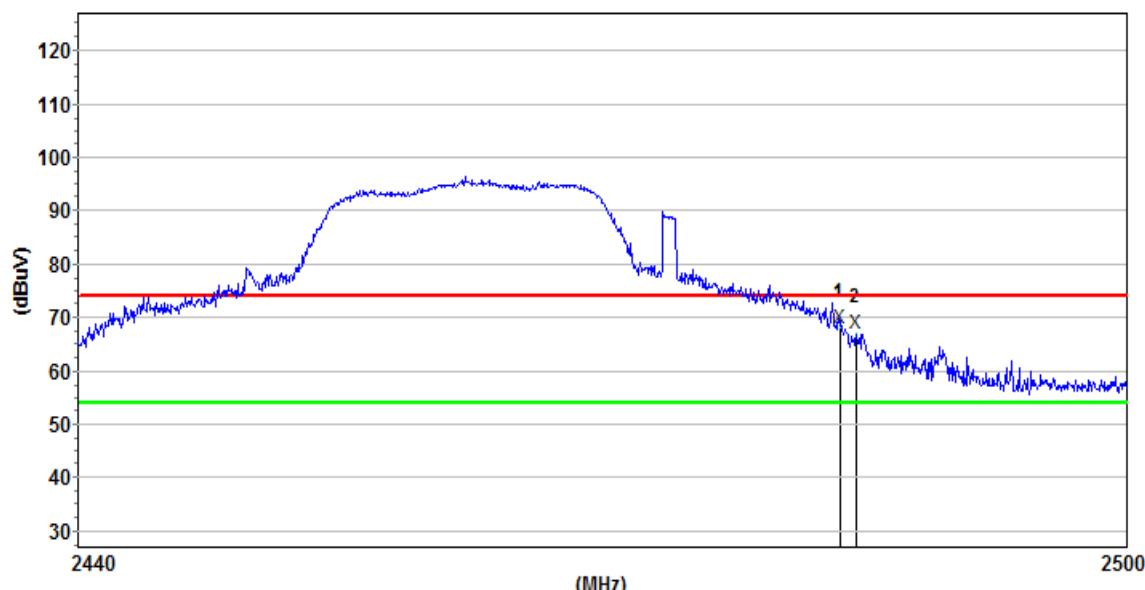
Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2374.370341	52.3	54.0	1.7	23.1	50.2	2.8	V
2	2390.000000	49.5	54.0	4.5	23.1	50.2	2.8	V

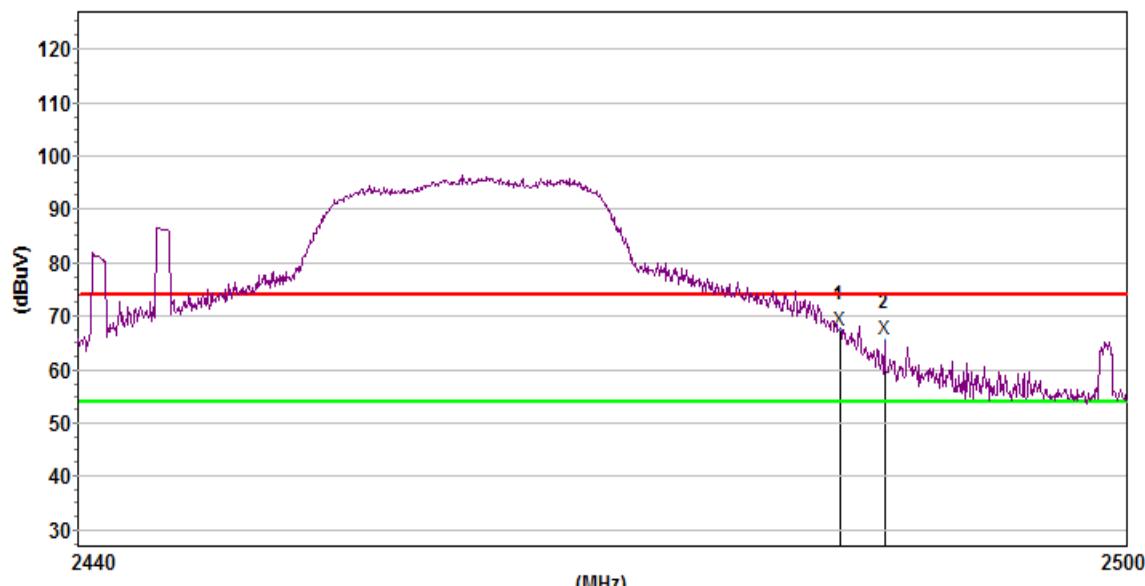
802.11g-High

Horizontal



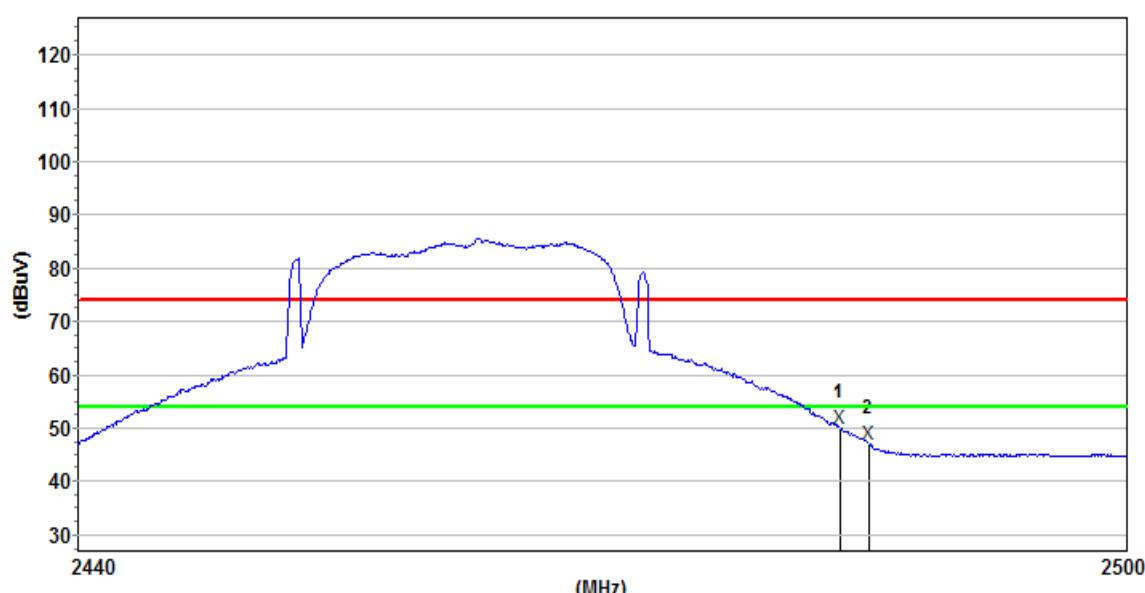
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2483.500000	68.0	74.0	6.0	22.9	50.2	2.8	H
2	2484.380213	67.1	74.0	6.9	22.9	50.2	2.8	H

Vertical



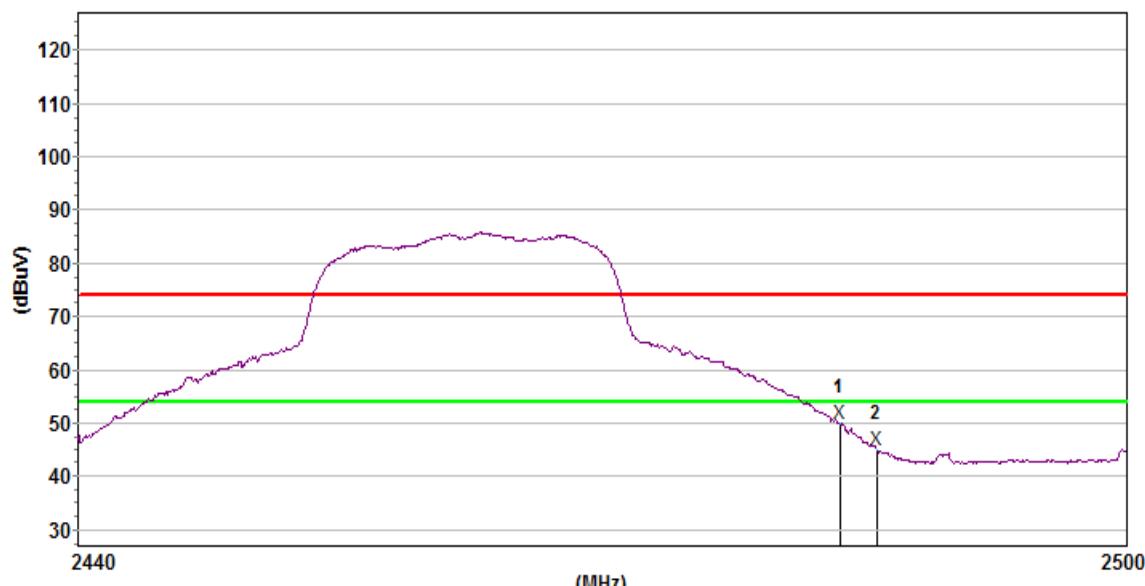
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
PK								
1	2483.500000	67.3	74.0	6.7	23.3	50.2	2.8	V
2	2486.010259	65.8	74.0	8.2	23.3	50.2	2.8	V

 802.11g-High
Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.500000	50.0	54.0	4.0	22.9	50.2	2.8	H
2	2485.104546	47.1	54.0	6.9	22.9	50.2	2.8	H

Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.500000	49.9	54.0	4.1	23.3	50.2	2.8	V
2	2485.587552	45.1	54.0	8.9	23.3	50.2	2.8	V

Note: 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) mode all have been tested, the worst case is 802.11g, only show the worst case.

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

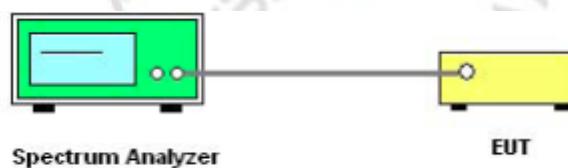
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

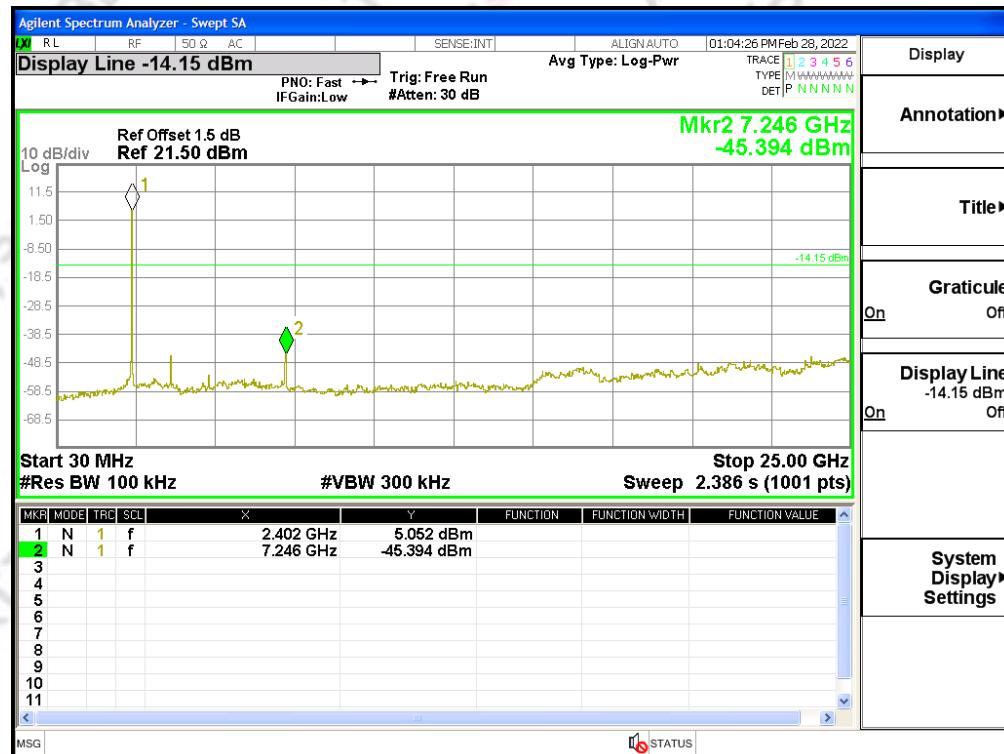
4.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

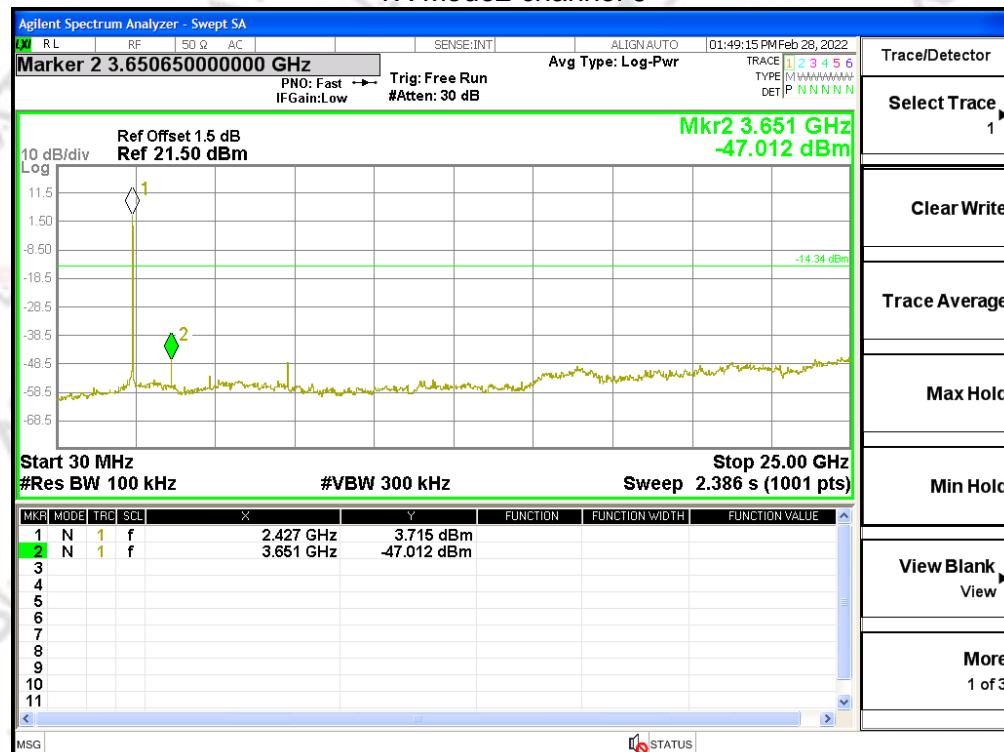
4.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	AC 120V	Test Mode:	TX Mode1/2/3/4/5/6/7/8/9

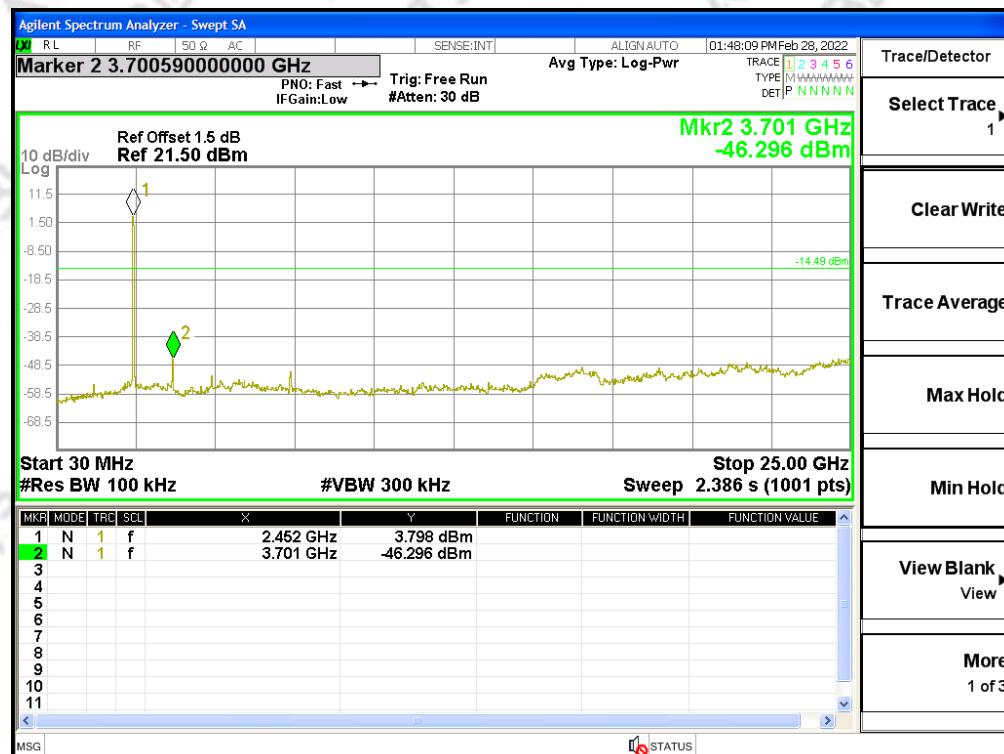
TX Mode1 channel 1



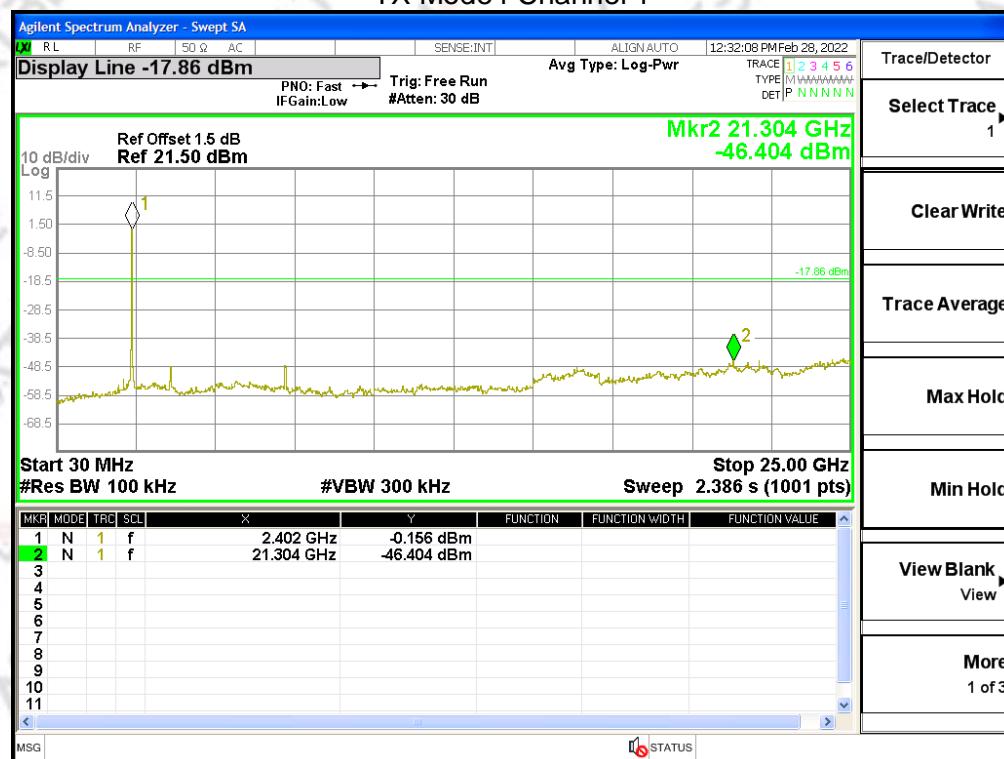
TX Mode2 channel 6



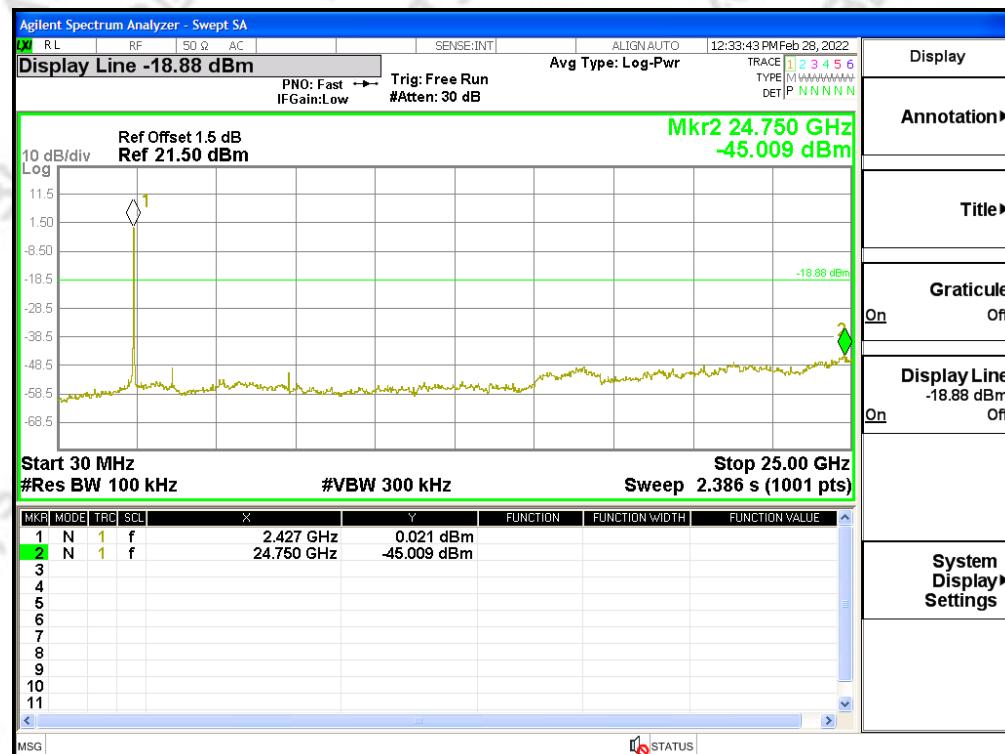
TX Mode3 channel 11



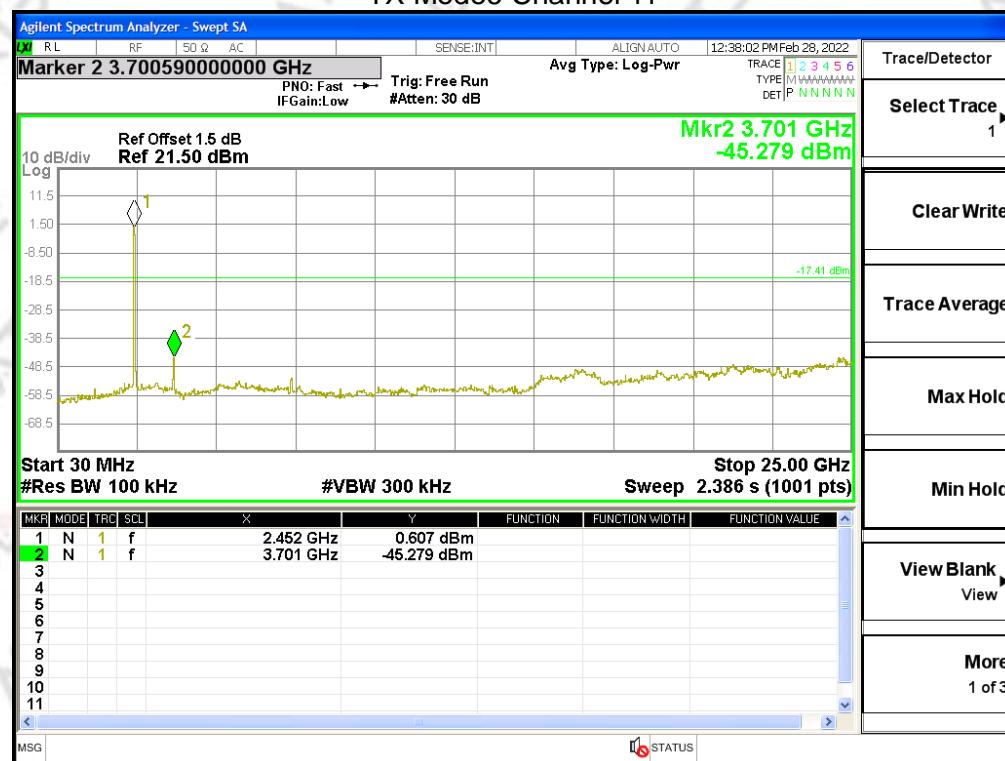
TX Mode4 Channel 1



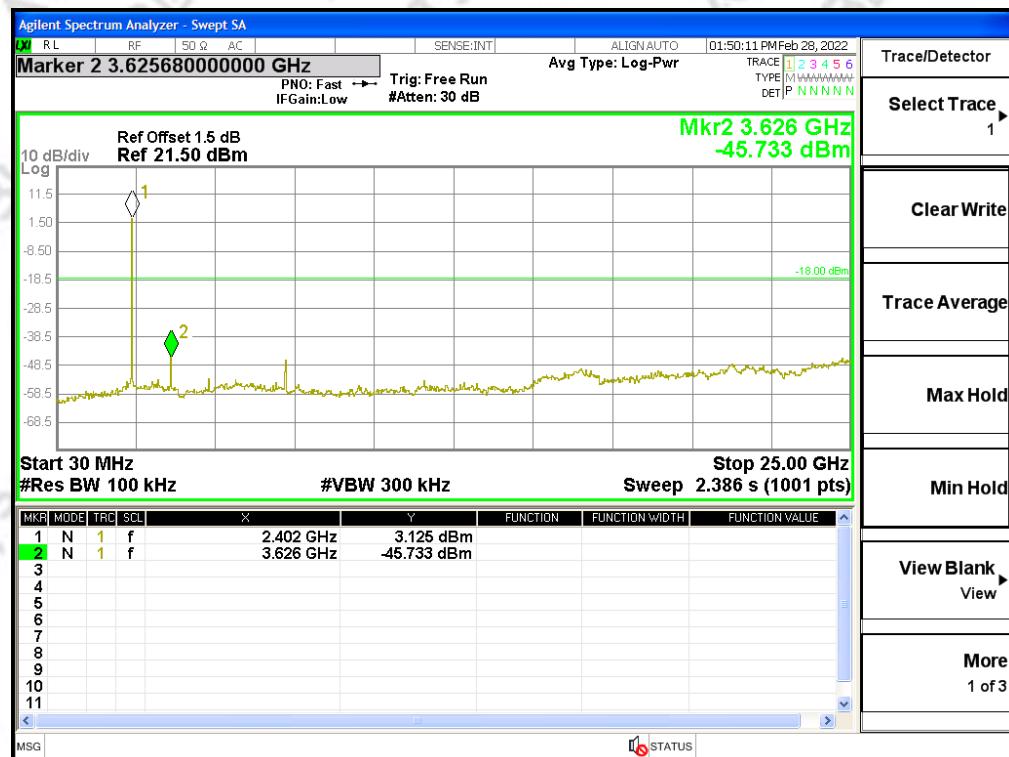
TX Mode5 channel 6



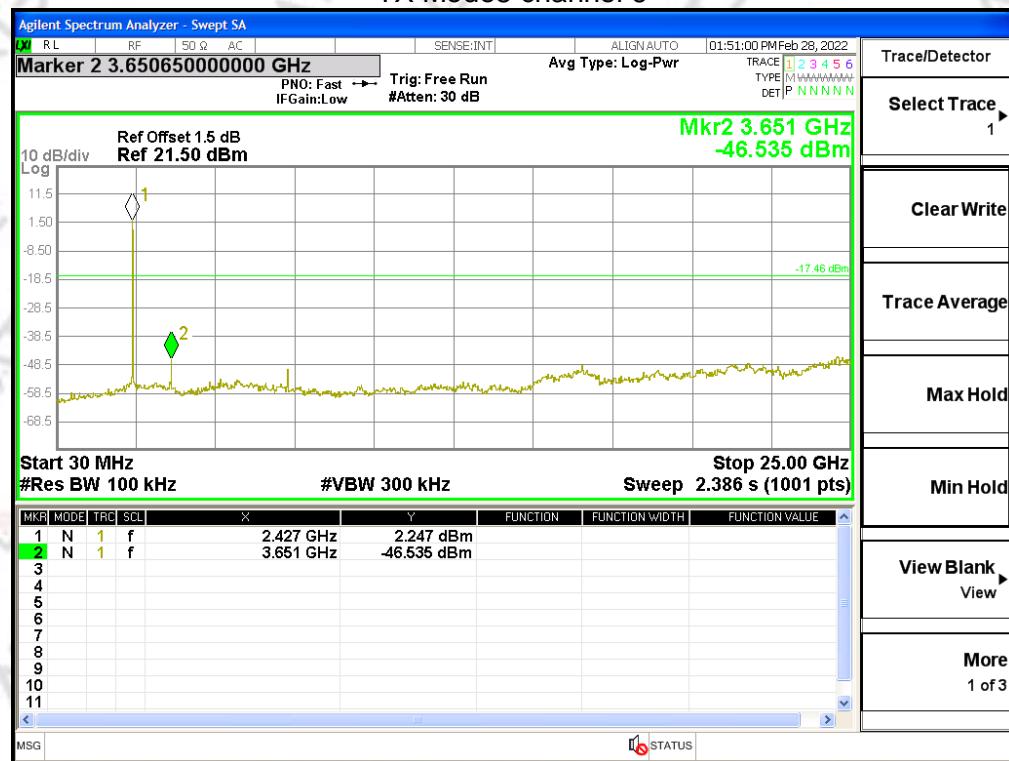
TX Mode6 Channel 11



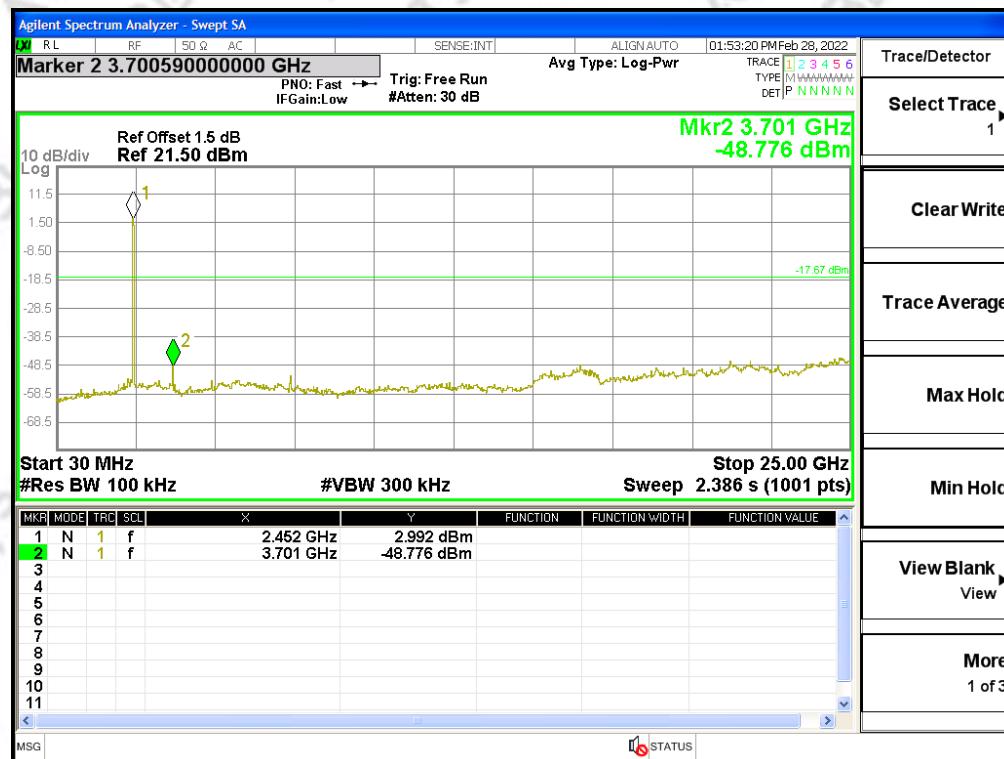
TX Mode7 Channel 1



TX Mode8 channel 6



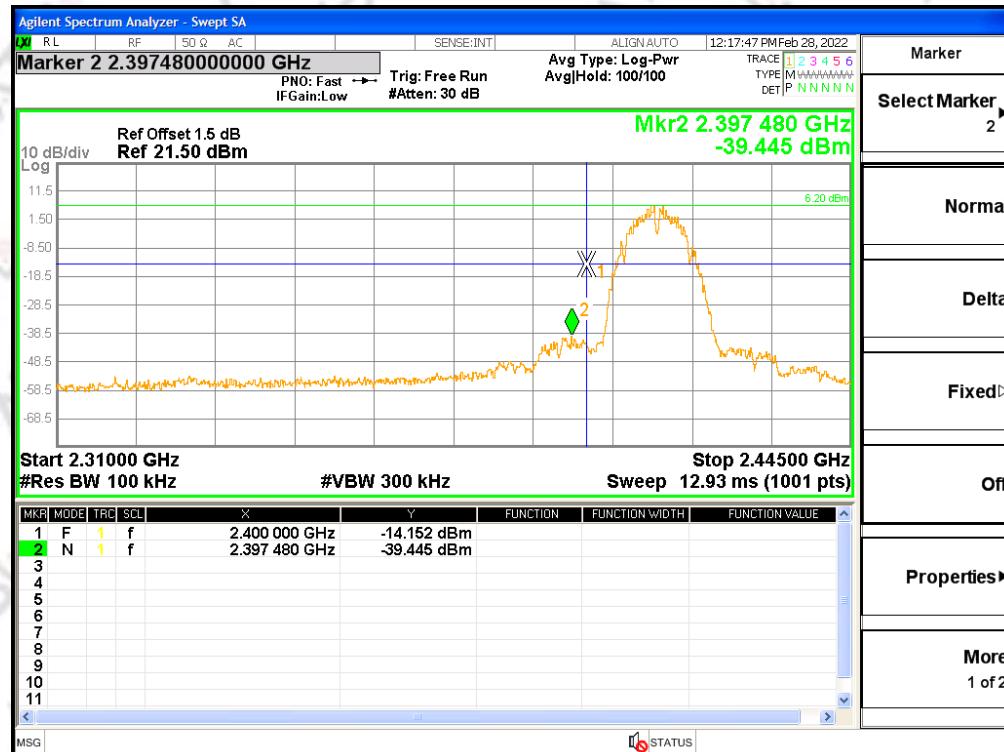
TX Mode9 Channel 11



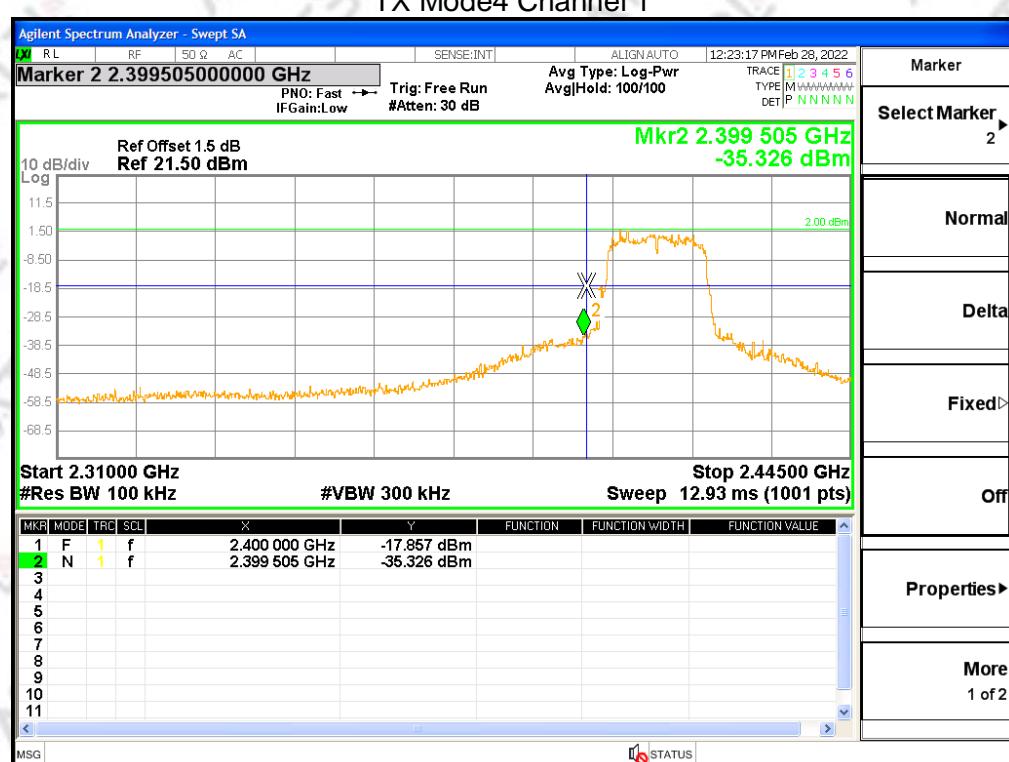
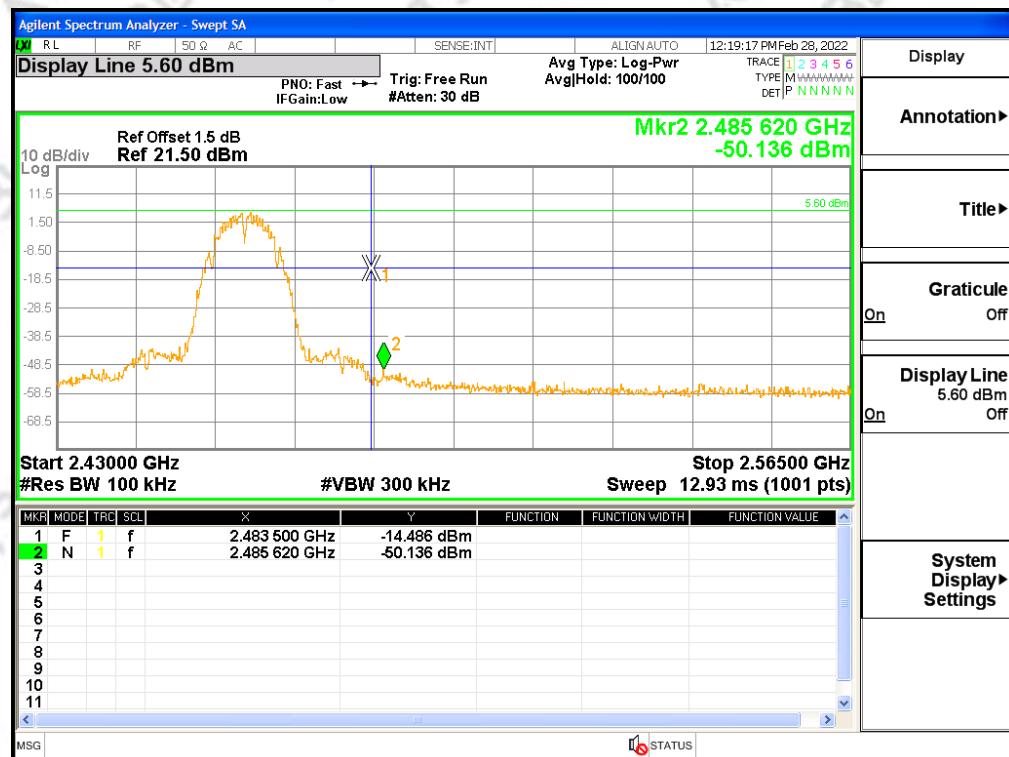
For Band edge(it's also the reference level for conducted spurious emission)

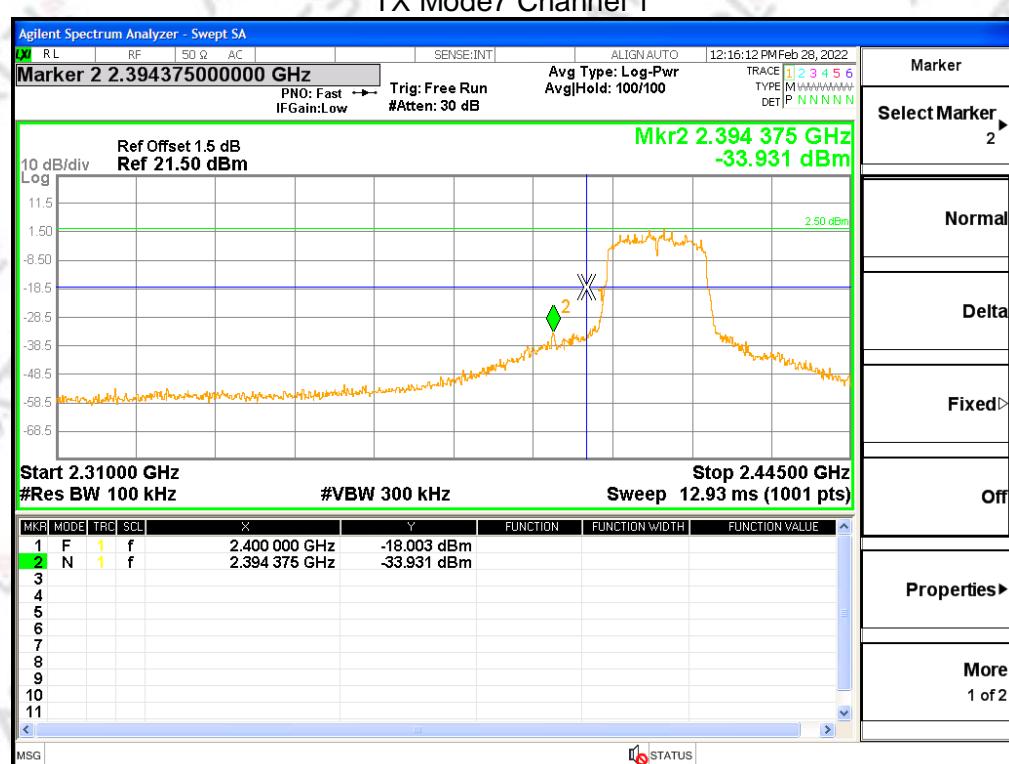
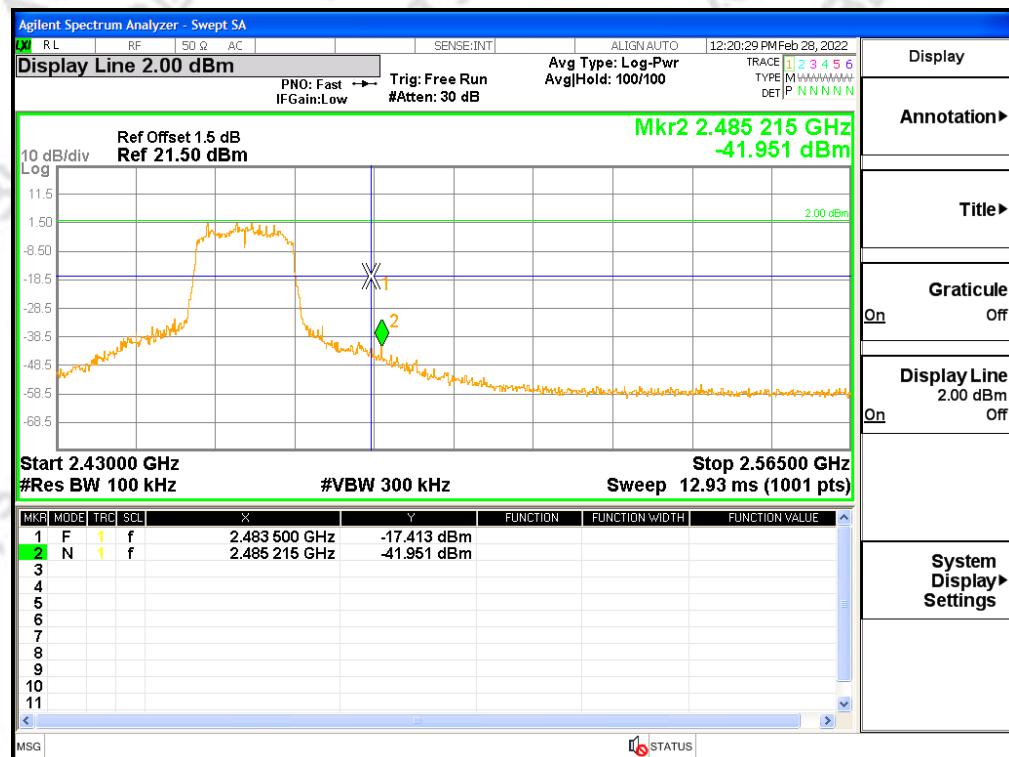
Temperature:	25°C	Relative Humidity:	60%RH
Test Voltage:	AC 120V	Test Mode:	TX Mode1/3/4/6/7/9

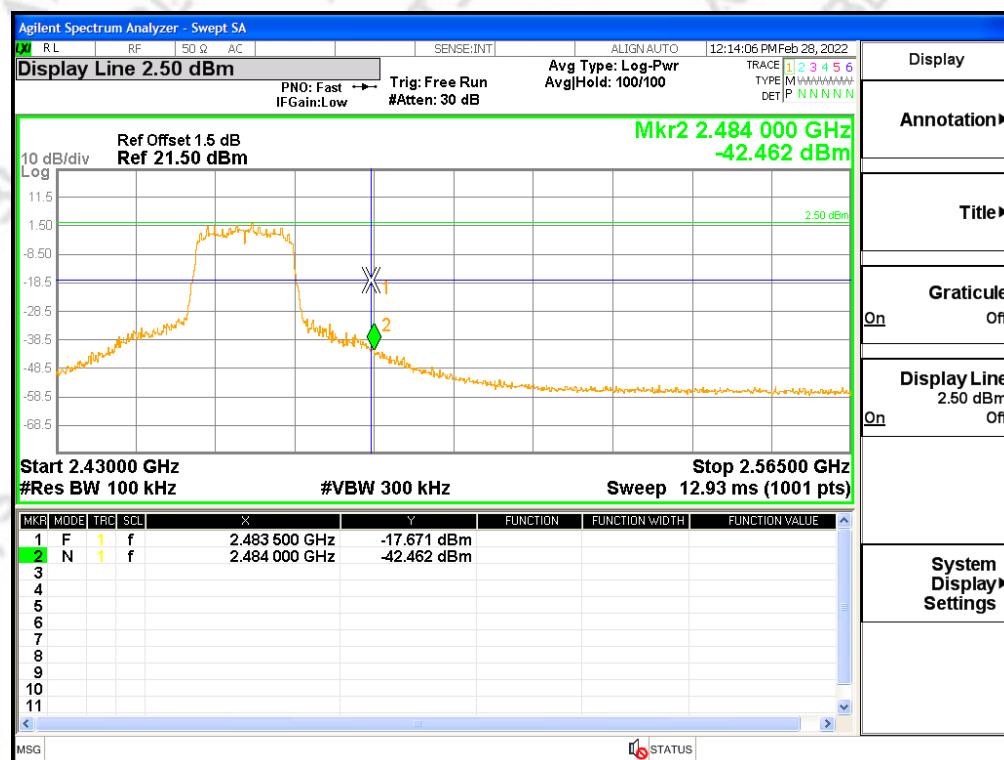
TX Mode1 Channel



TX Mode3 Channel 1







5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	$\leq 8 \text{ dBm}$ (RBW $\geq 3\text{KHz}$)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



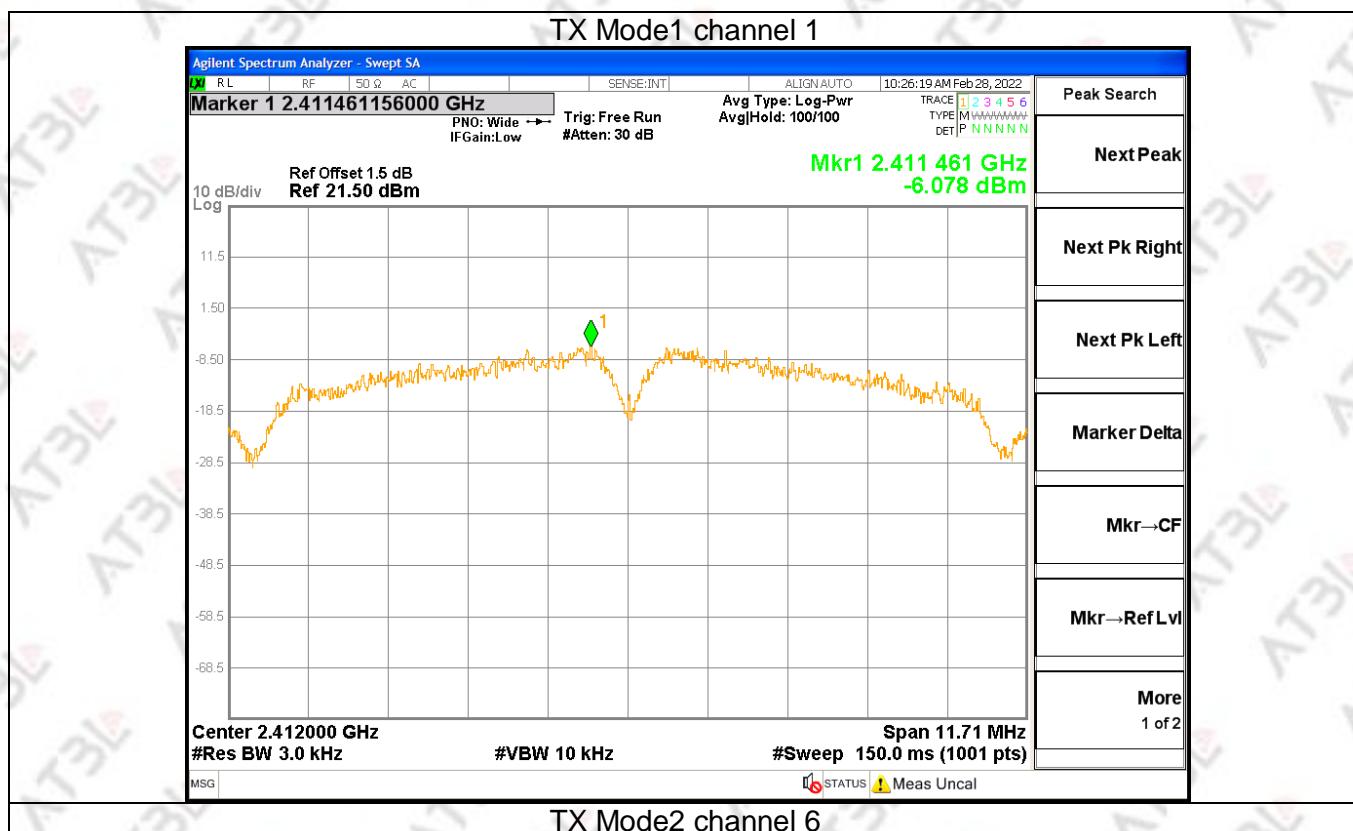
5.5 EUT OPERATION CONDITIONS

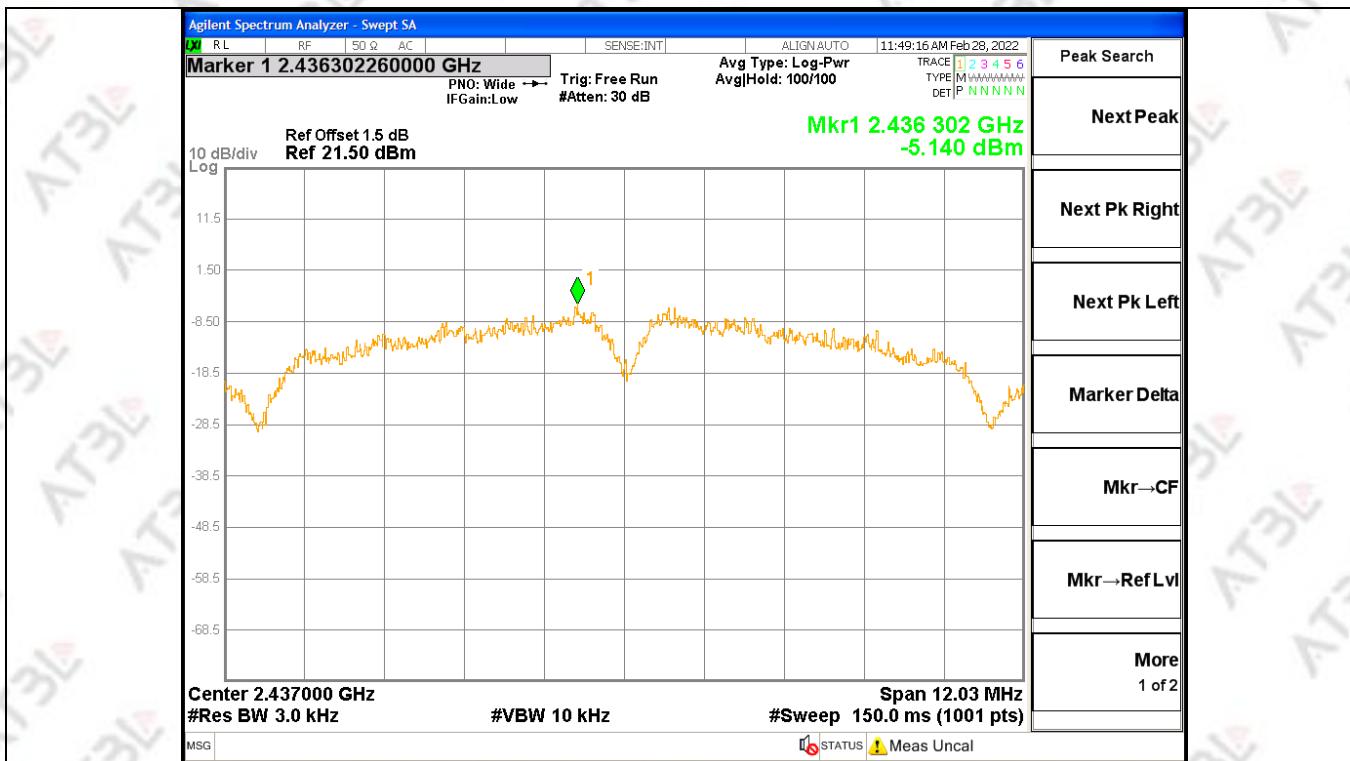
Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

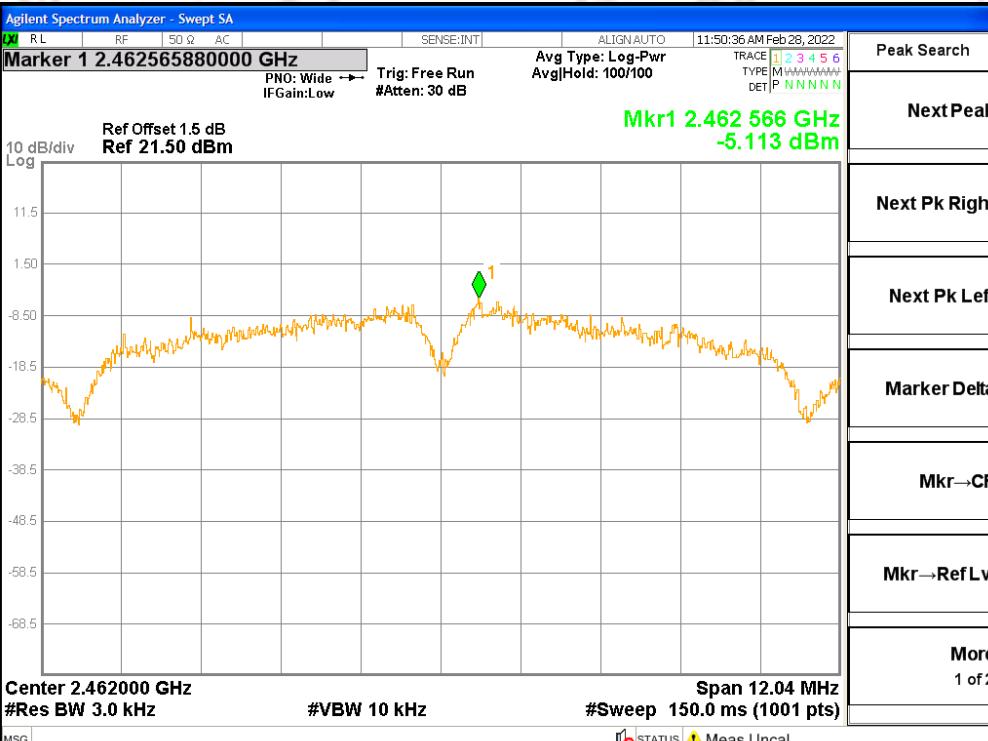
Temperature:	25°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3/4/5/6/7/8/9

Test mode	Frequency	Power Density	Limit (3KHz/dBm)	Result
		(dBm/3kHz)		
Mode1	2412 MHz	-6.078	≤8	PASS
Mode2	2437 MHz	-5.140	≤8	PASS
Mode3	2462 MHz	-5.113	≤8	PASS
Mode4	2412 MHz	-9.668	≤8	PASS
Mode5	2437 MHz	-9.280	≤8	PASS
Mode6	2462 MHz	-10.003	≤8	PASS
Mode7	2412 MHz	-8.373	≤8	PASS
Mode8	2437 MHz	-9.300	≤8	PASS
Mode9	2462 MHz	-8.876	≤8	PASS

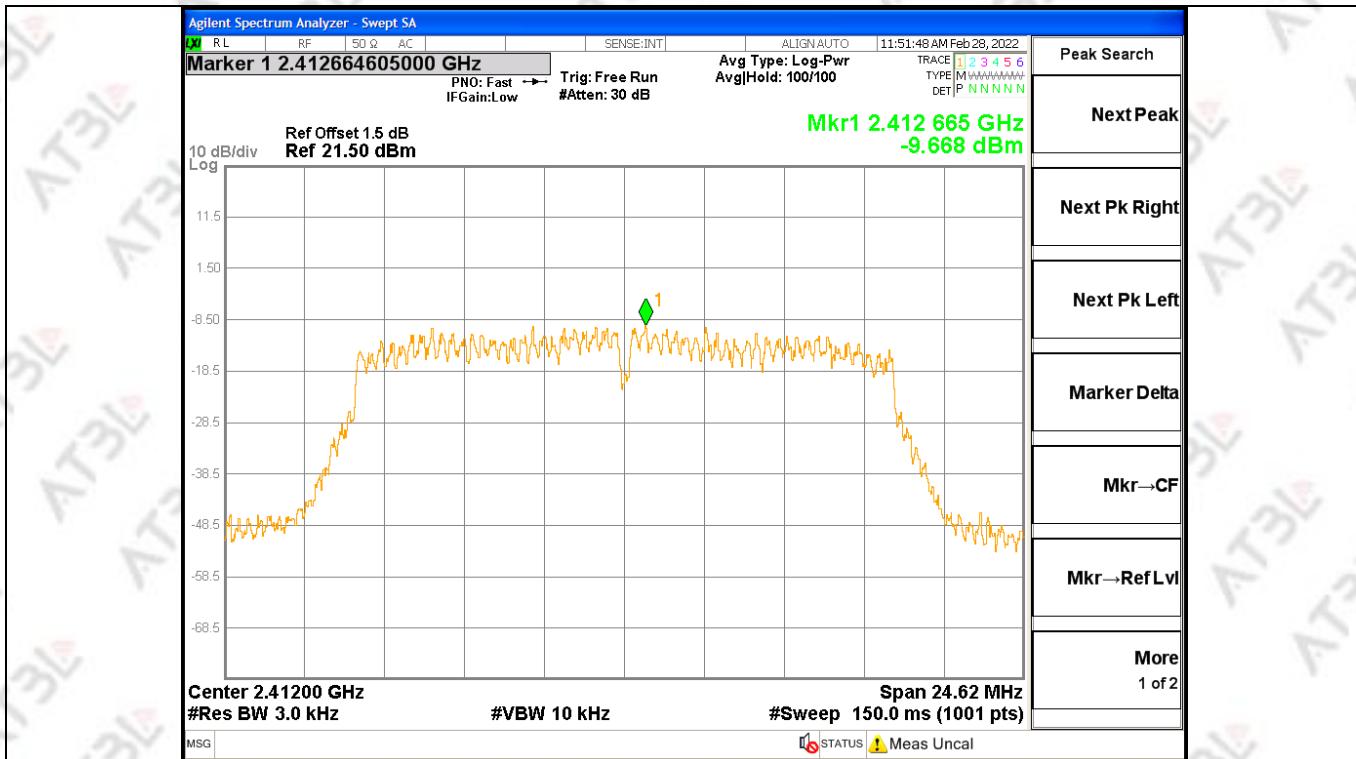




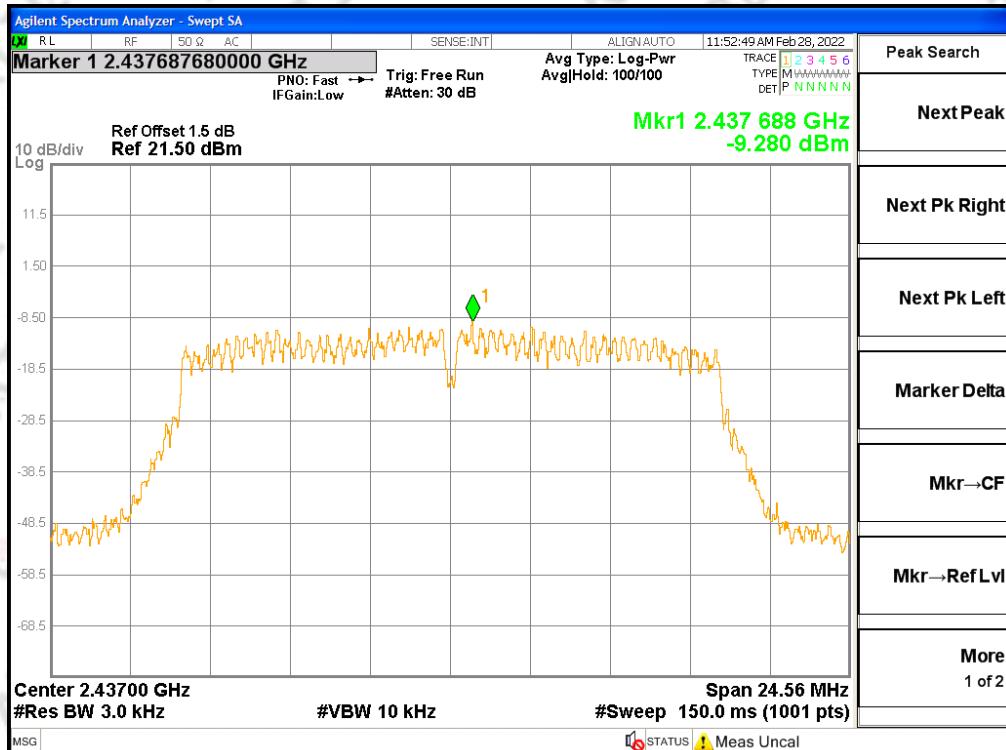
TX Mode3 channel 11



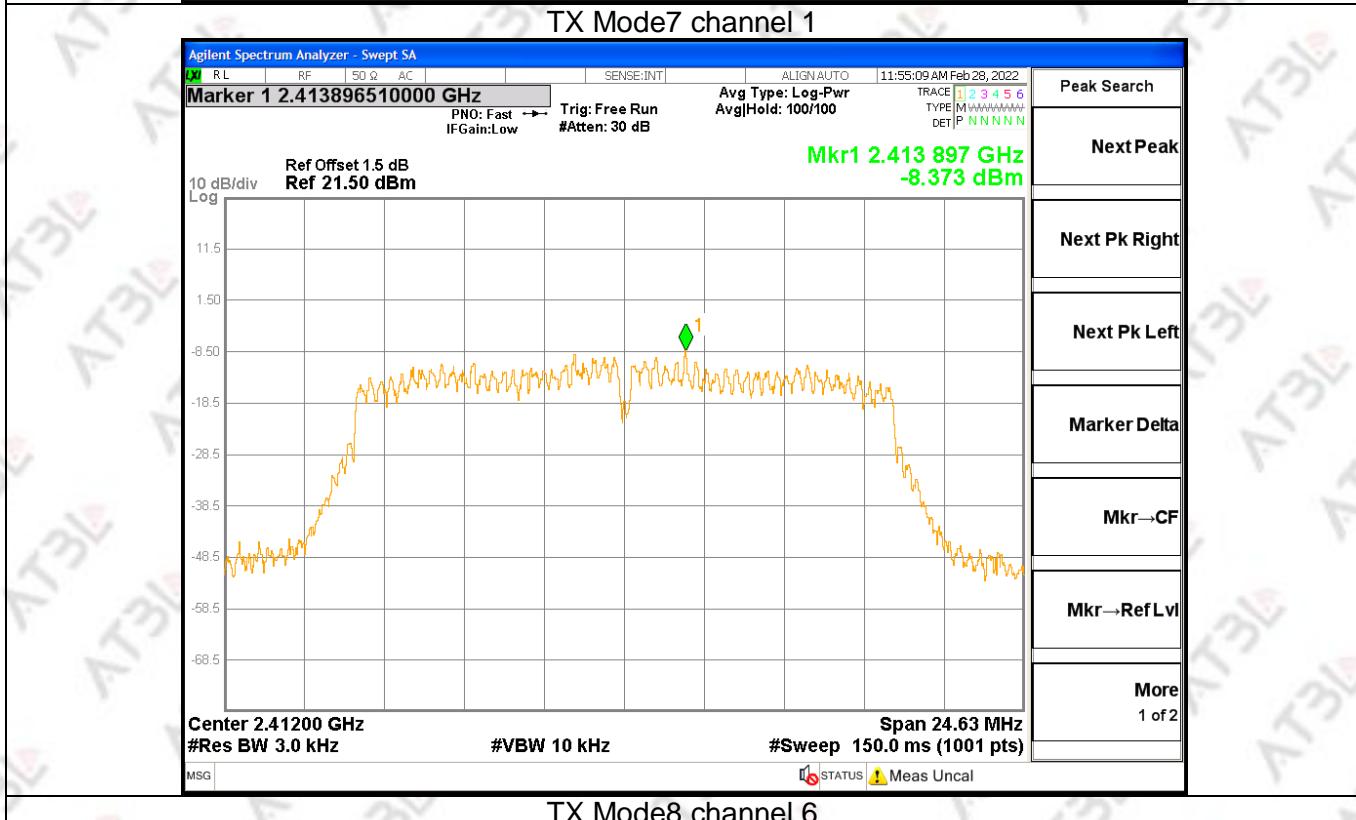
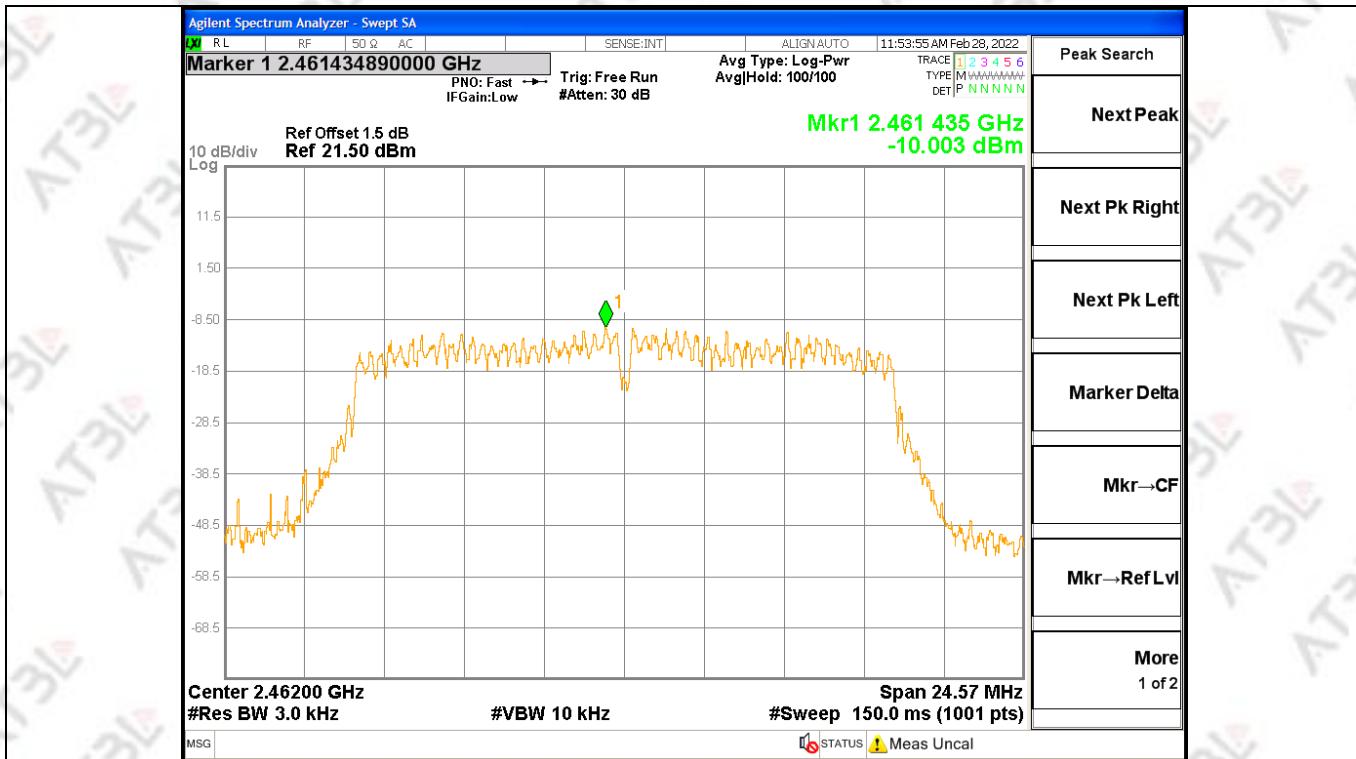
TX Mode4 channel 1

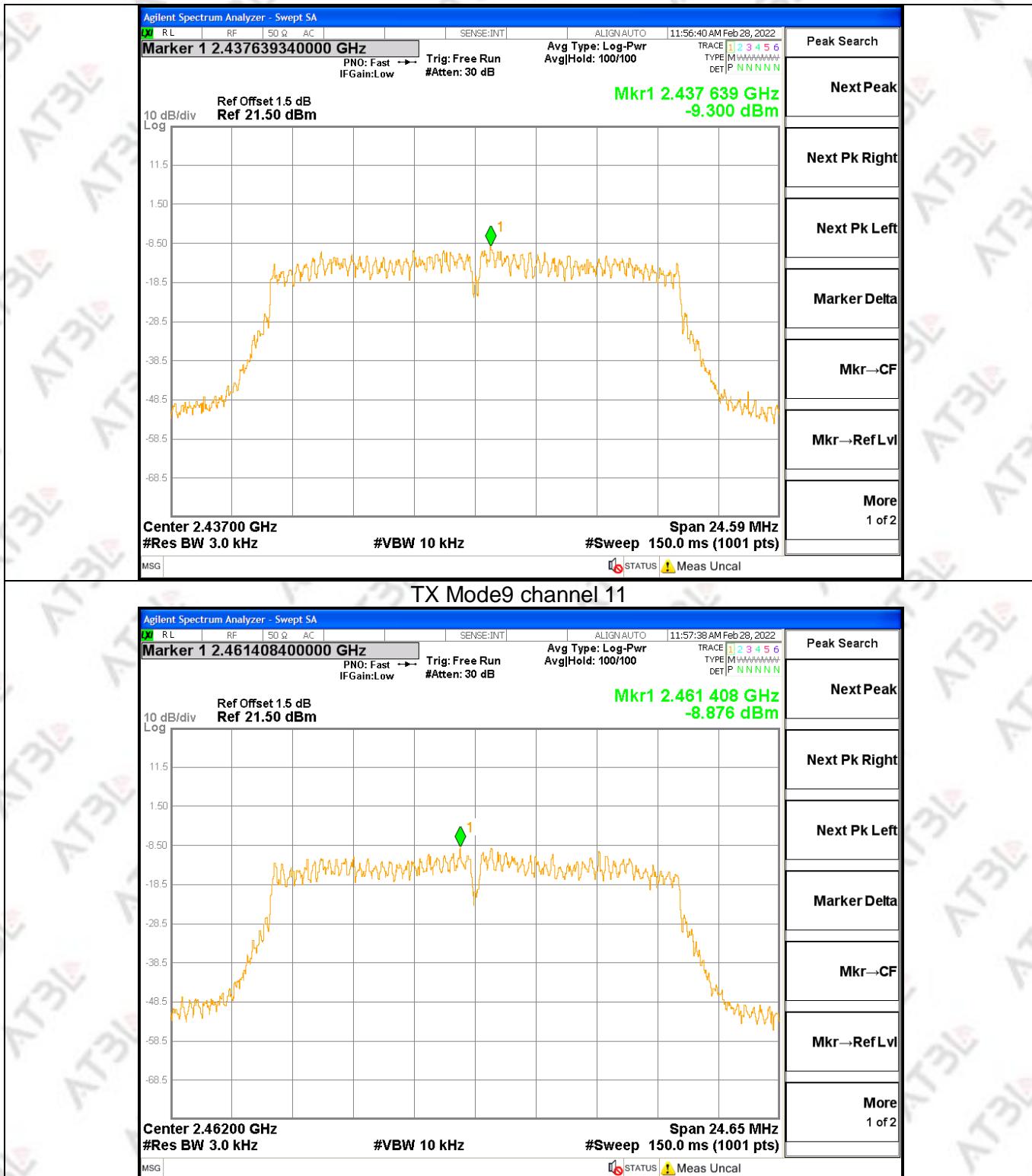


TX Mode5 channel 6



TX Mode6 channel 11





6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, $\text{VBW} \geq 3\text{RBW}$, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

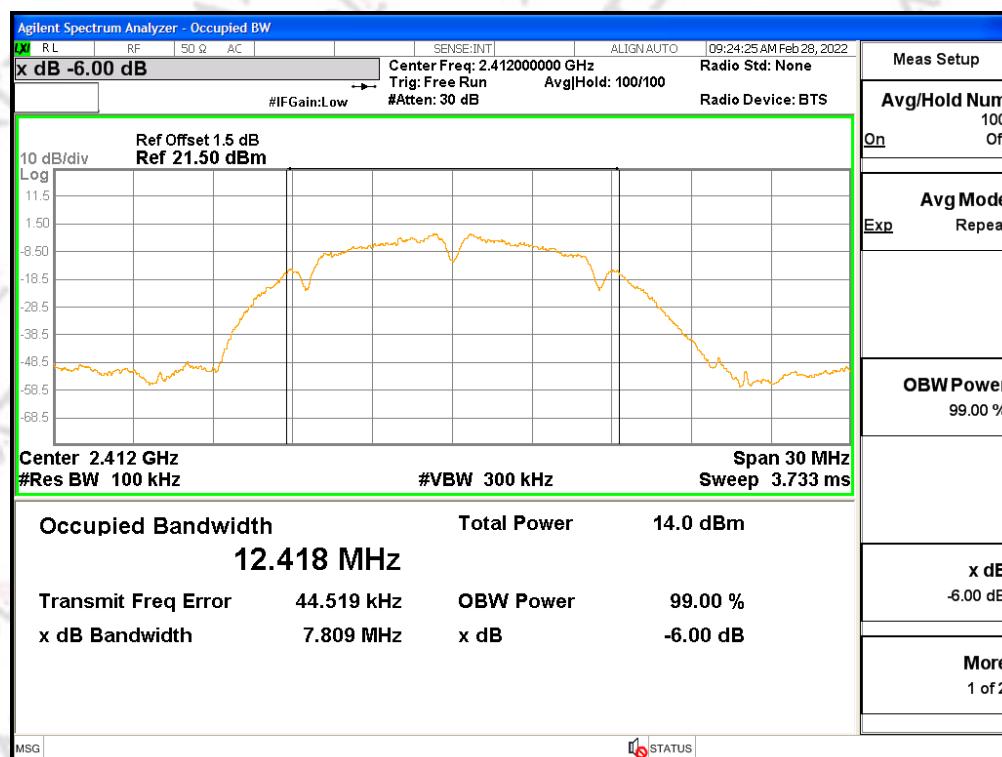
6.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3/4/5/6/7/8/9

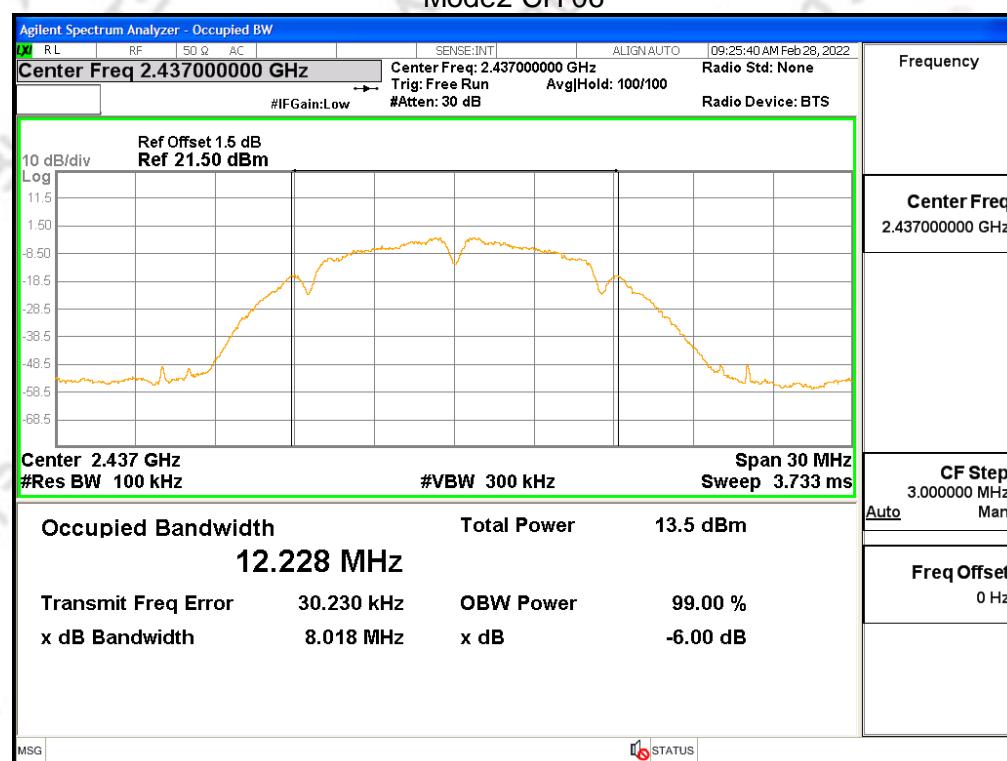
Test mode	Frequency	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth Limit(KHz)	Result
Mode1	2412 MHz	7.809	12.418	≥500KHz	PASS
Mode2	2437 MHz	8.018	12.228	≥500KHz	PASS
Mode3	2462 MHz	8.025	12.218	≥500KHz	PASS
Mode4	2412 MHz	16.41	16.316	≥500KHz	PASS
Mode5	2437 MHz	16.37	16.311	≥500KHz	PASS
Mode6	2462 MHz	16.38	16.311	≥500KHz	PASS
Mode7	2412 MHz	16.42	16.316	≥500KHz	PASS
Mode8	2437 MHz	16.39	16.310	≥500KHz	PASS
Mode9	2462 MHz	16.43	16.313	≥500KHz	PASS

6dB Bandwidth & 99% Bandwidth

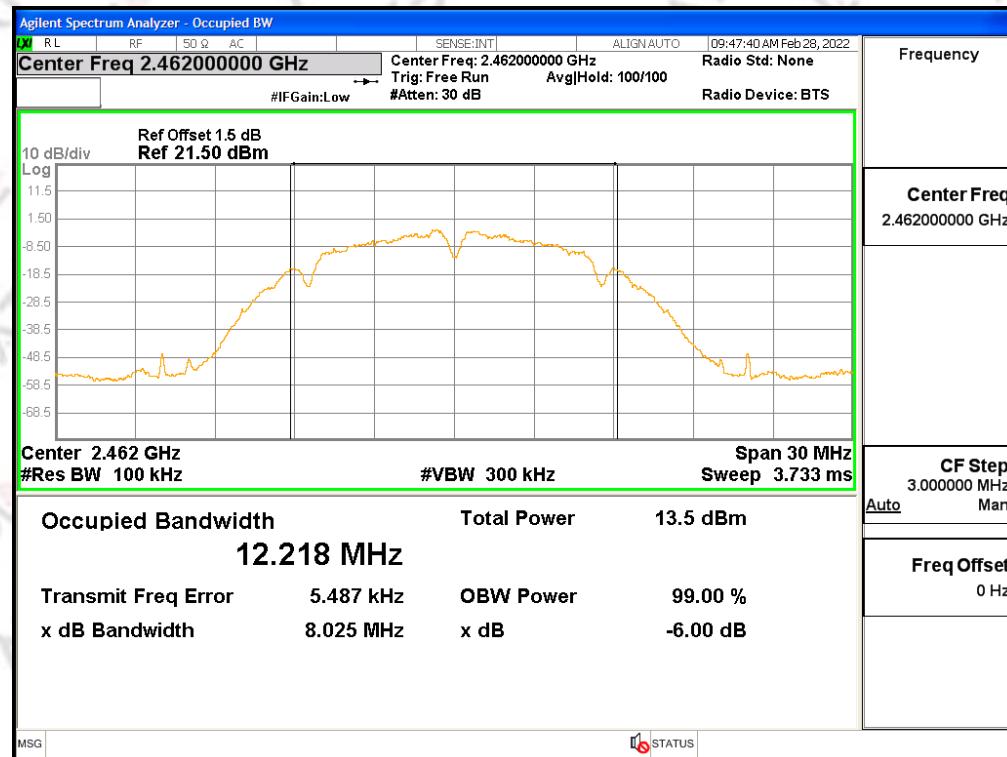
Mode1 CH 01



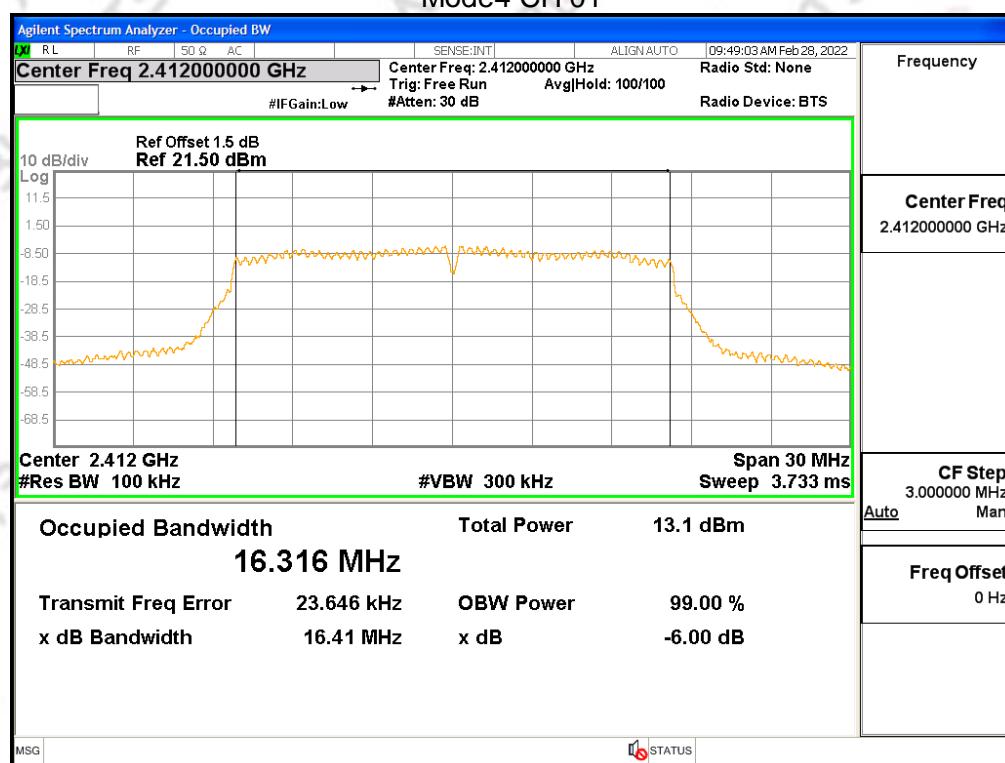
Mode2 CH 06



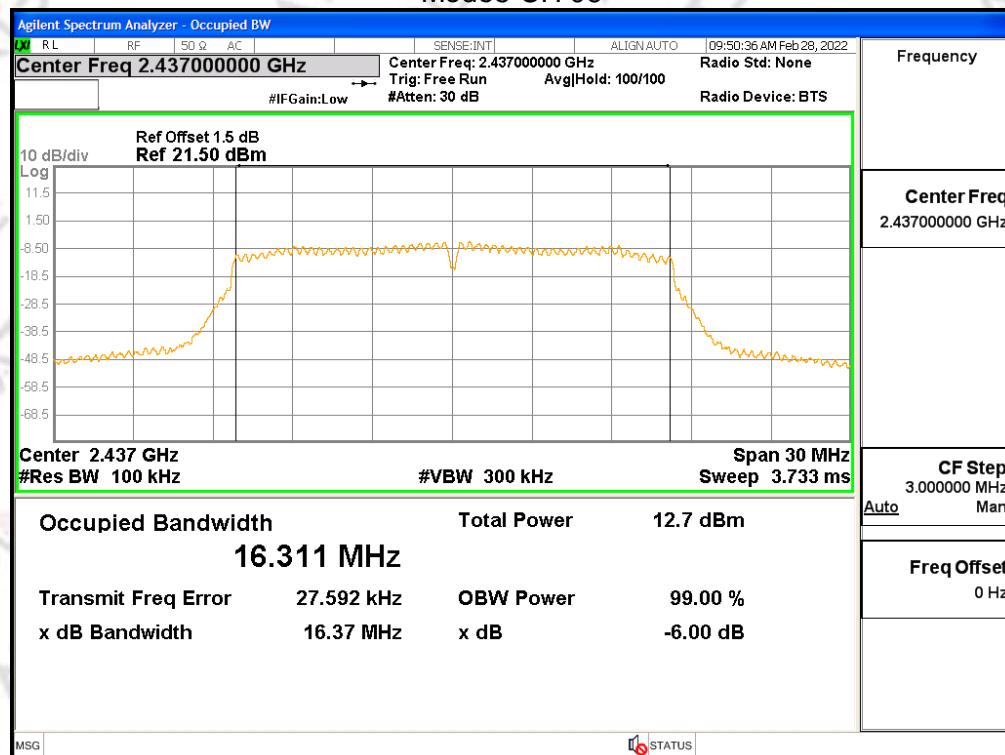
Mode3 CH 11



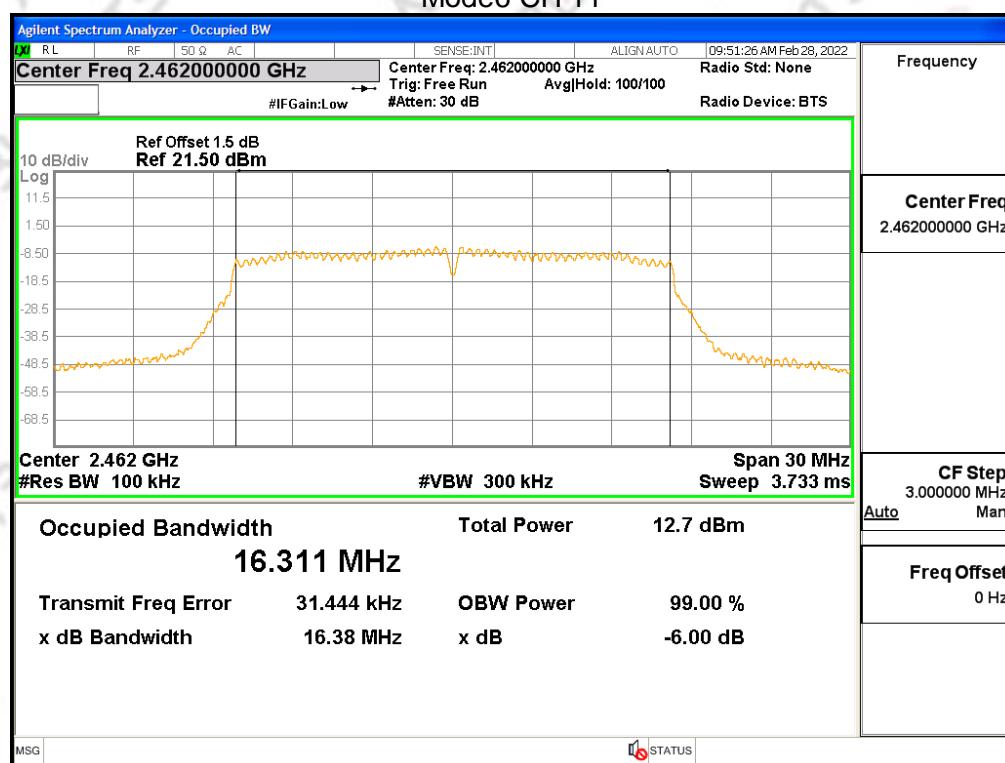
Mode4 CH 01



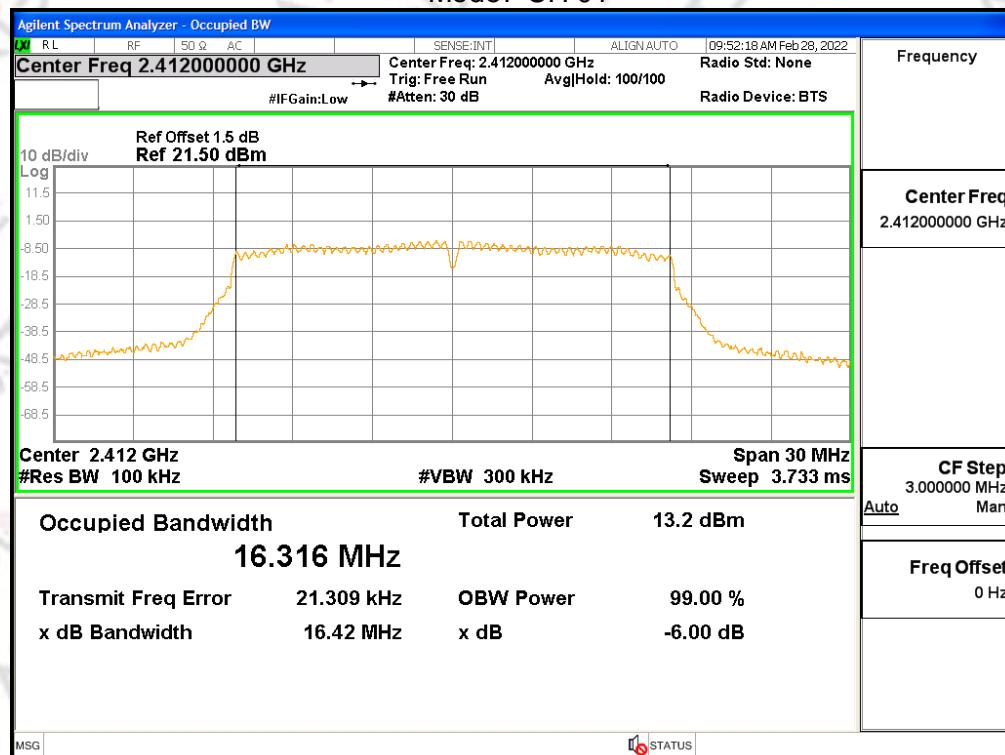
Mode5 CH 06



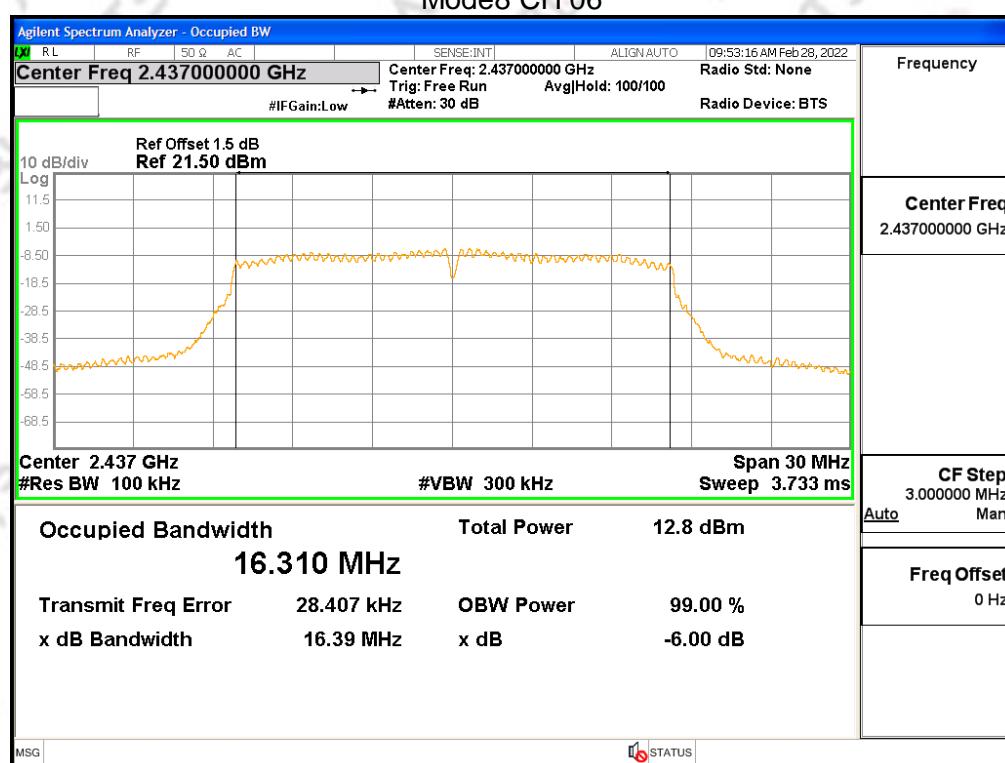
Mode6 CH 11



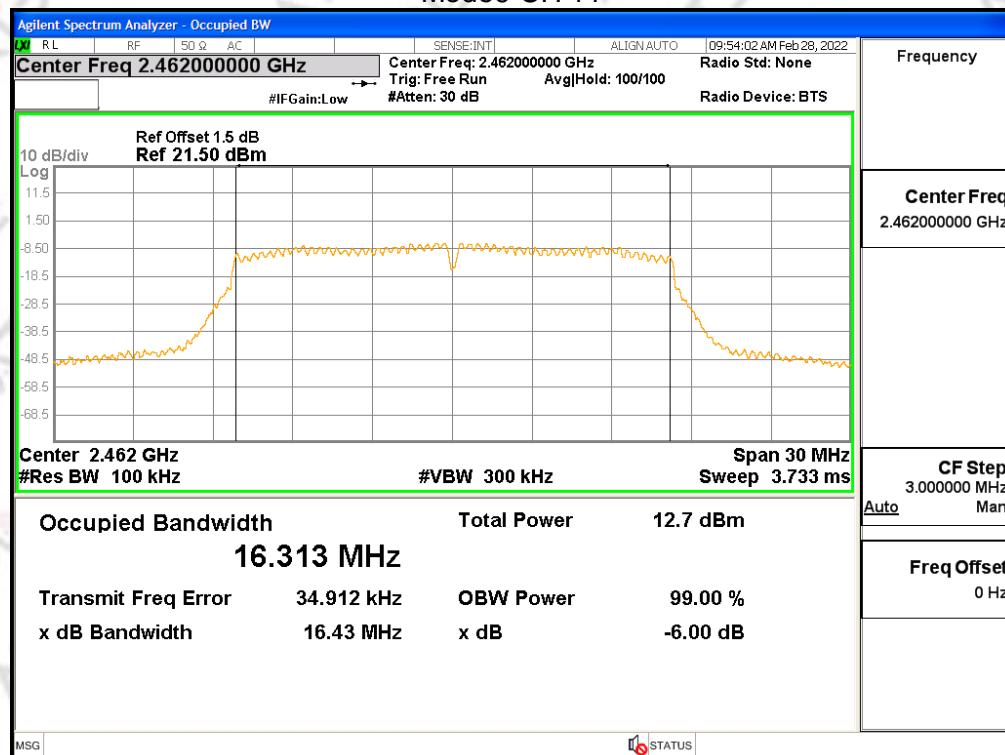
Mode7 CH 01



Mode8 CH 06



Mode9 CH 11



7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247,Subpart C

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%RH
Test Voltage:	AC120V	Test Mode:	TX Mode1/2/3/4/5/6/7/8/9

Test mode	Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
		(MHz)	(dBm)	(dBm)	dBm
Mode1	CH01	2412	16.98	13.88	30
Mode2	CH06	2437	16.43	13.44	30
Mode3	CH11	2462	16.13	13.11	30
Mode4	CH01	2412	22.37	13.05	30
Mode5	CH06	2437	22.07	12.61	30
Mode6	CH11	2462	21.19	12.22	30
Mode7	CH01	2412	22.43	12.06	30
Mode8	CH06	2437	21.87	12.56	30
Mode9	CH11	2462	21.35	12.29	30

Test Mode	Frequency	Peak Conducted Output Power	Antenna Gain	EIRP Power	LIMIT
	(MHz)	(dBm)	(dBi)	(dBm)	dBm
Mode1	2412	16.98	2	18.98	36
Mode2	2437	16.43	2	18.43	36
Mode3	2462	16.13	2	18.13	36
Mode4	2412	22.37	2	24.37	36
Mode5	2437	22.07	2	24.07	36
Mode6	2462	21.19	2	23.19	36
Mode7	2412	22.43	2	24.43	36
Mode8	2437	21.87	2	23.87	36
Mode9	2462	21.35	2	23.35	36

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

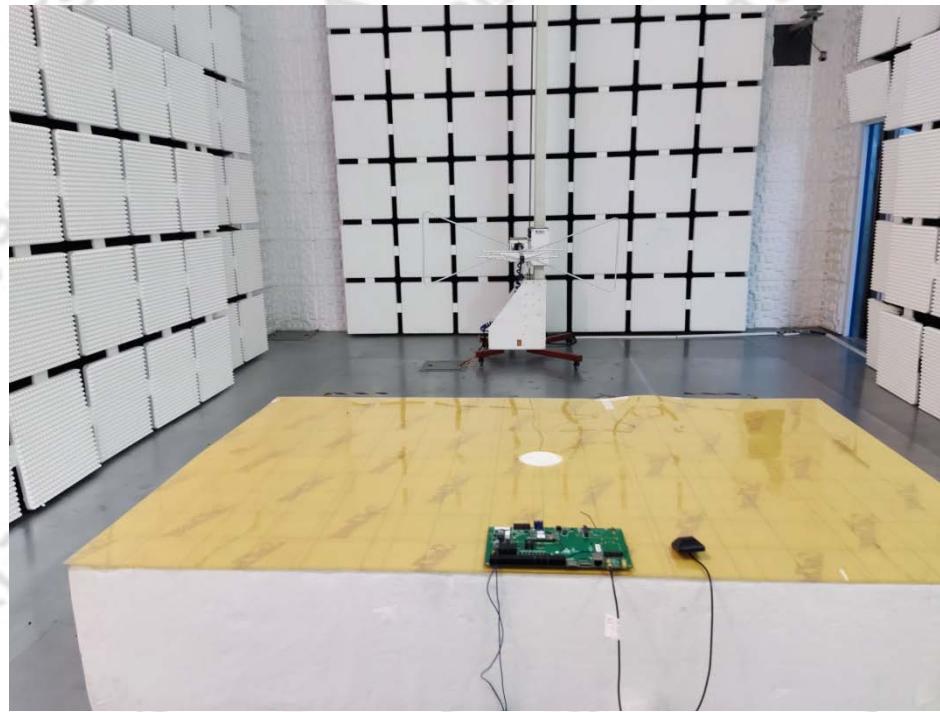
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

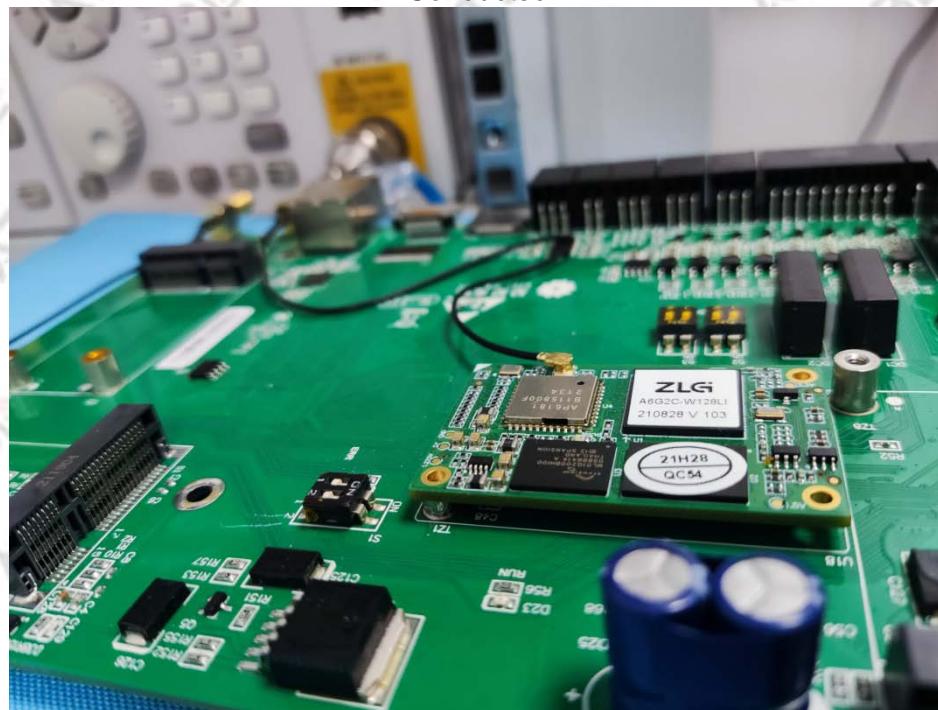
The EUT antenna is Sucker Antenna. It comply with the standard requirement.

APPENDIX-PHOTOS OF TEST SETUP

Conduction

Radiation emission
30MHz-1GHz

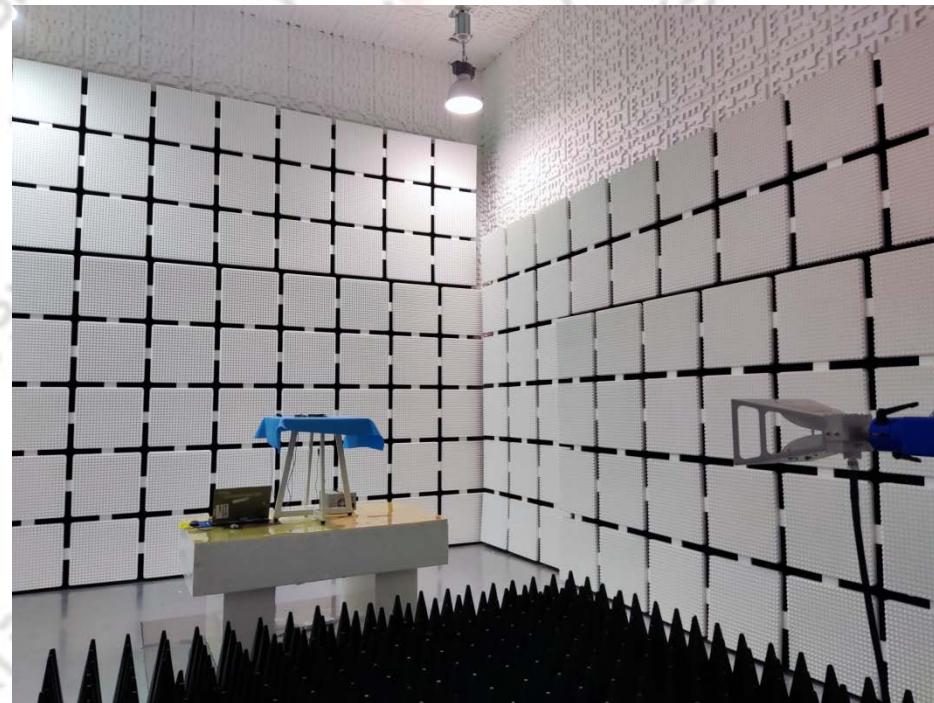
Conducted



RSE 30MHz-1000MHz



RSE 1GHz-18GHz



*****END OF THE REPORT*****