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VERITAS

Test Report No.: W7L-P22030011RF03



FCC TEST REPORT (Part 15, Subpart C)

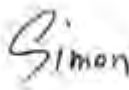
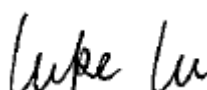
Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer or Supplier:	Lenovo PC HK Limited
Address:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
Product:	Portable Tablet Computer
Brand Name:	Lenovo
Model Name:	TB132FU
FCC ID:	O57TB132FU
Date of tests:	Mar. 21, 2022 ~ Apr. 06, 2022

The tests have been carried out according to the requirements of the following standard:

- FCC Part 15, Subpart C, Section 15.247**
- ANSI C63.10-2013**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Apr. 06, 2022	 Date: Apr. 06, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22030011RF03	Original release	Apr. 06, 2022



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
15.207	AC Power Conducted Emission	Compliance
15.205 15.209	Radiated Emissions	Compliance
15.247(d)	Out of band Emission Measurement	Compliance
15.247(a)(2)	6dB bandwidth	Compliance
15.247(b)	Conducted Output power	Compliance
15.247(e)	Power Spectral Density	Compliance
15.203	Antenna Requirement	Compliance

NOTE: 1.Except RSE, the data of 802.11ax 20 (RU 26/52/106/242) & 802.11ax 40 (RU 26/52/106/242/484) please refer to the Appendix.

2. WLAN(normal mode& RU-OFDMA)2.4G supports SISO&MIMO mode , the whole testing have assessed the MIMO mode by referring to their maximum conducted power

3. 11ax support full RU tone and partial RU tone, the whole testing have assessed the RU26 tone and full tone mode referring to their maximum conducted power

4. Only the worse data were report



1.1 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	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Portable Tablet Computer
BRAND NAME	Lenovo
MODEL NAME	TB132FU
NOMINAL VOLTAGE	3.87Vdc (Li-ion, battery) 10Vdc (adapter)
MODULATION	OFDMA
TRANSMISSION RATE	802.11ax 20 (RU26/52/106/242): up to 286.8Mbps 802.11ax 40 (RU26/52/106/242/484): up to 573.5Mbps
OPERATING FREQUENCY	2412-2462MHz for ax(20M RU26/52/106/242)/ax (40M RU26/52/106/242/484)
MAX. OUTPUT POWER	WLAN: 433.53mW (Maximum)
ANTENNA TYPE	ANT 0: PIFA Antenna with 1.0dBi gain for WIFI ANT 1: PIFA Antenna with -2.0dBi gain for WIFI
HW VERSION	Lenovo Tablet TB132FU
SW VERSION	Lenovo TB132FU_RF01_220315
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable 1: non-shielded cable, with w/o ferrite core, 1.5 meter USB cable 2: non-shielded cable, with w/o ferrite core, 1.5 mete

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a MIMO function. Physically, the EUT provides two transmitter and two receiver.

MODULATION MODE	TX/RX FUNCTION
802.11ax (20MHz RU 26/52/106/242)	2TX /2RX
802.11ax (40MHz RU 26/52/106/242/484)	2TX /2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
AC Adapter 1	Chengyang	MC-201	I/P: 100-240Vac, 0.7A, O/P: 10.0Vdc, 2.0A
AC Adapter 2	Acbel	MC-201	I/P: 100-240Vac, 0.7A, O/P: 10.0Vdc, 2.0A
USB Cable 1	Jieye	JY-C03-408	Signal Line, 1.5meter
USB Cable 2	Saibao	SLQ-A195A	Signal Line, 1.5meter
Keyboard	Lenovo	KB686U	/
Stylus Pen	Lenovo	Lenovo BTP-131	/
Battery 1	Lenovo/SC UD	L22D2P31	3.87VDC,8200 mAh
Battery 2	Lenovo/Su nwoda	L22D2P31	3.87VDC,8200 mAh
Type C audio line	Saibao	SLQ-A197A	0.1m

NOTE:

BLE&WIFI test in the engineer mode,power setting at “ MAXIMUM CONDUCTED OUTPUT POWER”, the steps for entering engineering mode are as follows:

1. In the finger plate, dial the code for entering Engineer mode: *##83781##*
2. EngineerMode->CONNECTIVITY->Wifi->Tx



2.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11ax20 (RU 26/52/106/242):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11ax40 (RU 26/52/106/242/484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
-	√	√	√	√	-

Where **RE<1G**: Radiated Emission below 1GHz **RE≥1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax 40 (RU 484)	3 to 9	3	OFDMA	MCS0



RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax 20 (RU 26)	1 to 11	1, 11	OFDMA	MCS0
802.11ax 20 (RU 242)	1 to 11	1, 11	OFDMA	MCS0
802.11ax 40 (RU 26)	3 to 9	3, 9	OFDMA	MCS0
802.11ax 40 (RU 484)	3 to 9	3, 9	OFDMA	MCS0

POWER LINE CONDUCTED EMISSION TEST

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax 40 (RU 484)	3 to 9	3	OFDMA	MCS0



BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax 20 (RU 26/242)	1 to 11	1,11	OFDMA	MCS0
802.11ax 40 (RU 26/484)	3 to 9	3 ,9	OFDMA	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11ax 20 (RU 26/242)	1 to 11	1,11	OFDMA	MCS0
802.11ax 40 (RU 26/484)	3 to 9	3 ,9	OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	23deg. C, 70%RH	DC10V By Adapter	Carl Xie
RE≥1G	23deg. C, 70%RH	DC10V By Adapter	Carl Xie
PLC	25deg. C, 52%RH	DC10V By Adapter	Lily Zhao
APCM	25deg. C, 60%RH	DC 3.87V By Battery	Lily Zhao



2.3 Duty Cycle of Test Signal

Please refer to APPENDIX

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT0+1
WIFI 2.4GHz	802.11ax 20 (RU 242)	100.00
	802.11ax 40 (RU 484)	100.00

Note:

Duty cycle of test signal is < 98%, duty factor shall be considered.

2.4 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 15.247

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2013

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary



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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	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad T450	PC-049PT1	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1.The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 15,22	Feb. 14,23
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 04,22	Mar. 03,23

- NOTE:**
1. The test was performed in CE shielded 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.



3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

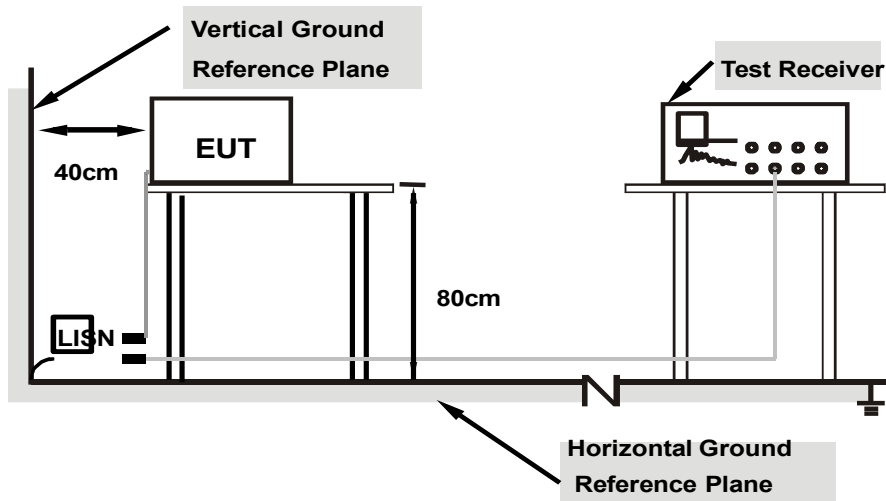
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

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



3.1.7 TEST RESULTS

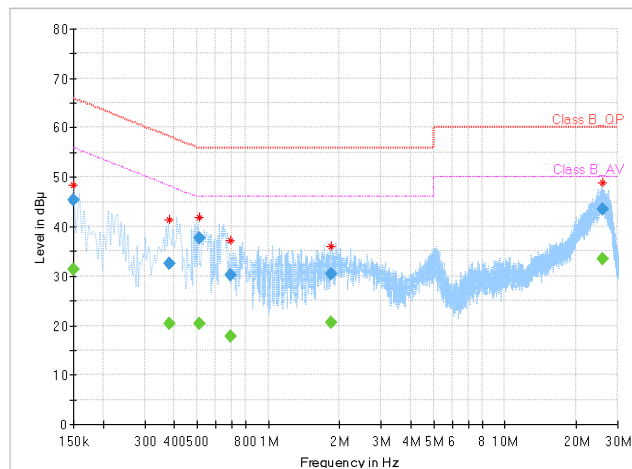
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	31.38	56.00	24.62	L1	ON	9.7
0.150000	45.48	---	66.00	20.52	L1	ON	9.7
0.380000	---	20.37	48.28	27.91	L1	ON	9.7
0.380000	32.49	---	58.28	25.79	L1	ON	9.7
0.512000	---	20.45	46.00	25.55	L1	ON	9.7
0.512000	37.63	---	56.00	18.37	L1	ON	9.7
0.696000	---	17.79	46.00	28.21	L1	ON	9.7
0.696000	30.22	---	56.00	25.78	L1	ON	9.7
1.848000	---	20.66	46.00	25.34	L1	ON	9.7
1.848000	30.36	---	56.00	25.64	L1	ON	9.7
25.792000	---	33.41	50.00	16.59	L1	ON	9.8
25.792000	43.48	---	60.00	16.52	L1	ON	9.8

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



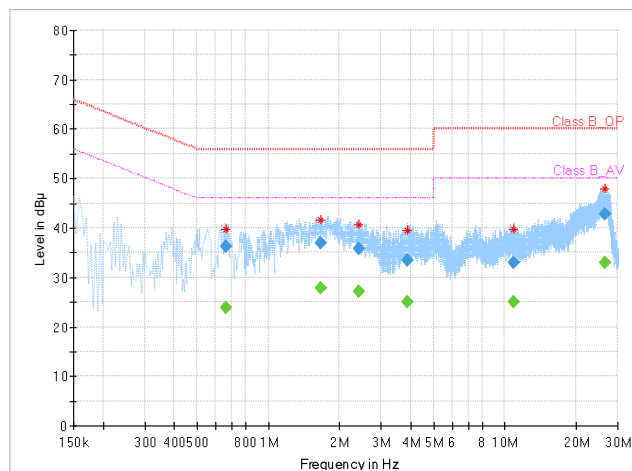


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 55%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.660000	---	23.80	46.00	22.20	N	ON	9.7
0.660000	36.34	---	56.00	19.66	N	ON	9.7
1.668000	---	27.83	46.00	18.17	N	ON	9.8
1.668000	37.07	---	56.00	18.93	N	ON	9.8
2.404000	---	27.06	46.00	18.94	N	ON	9.8
2.404000	35.77	---	56.00	20.23	N	ON	9.8
3.888000	---	24.97	46.00	21.03	N	ON	9.8
3.888000	33.39	---	56.00	22.61	N	ON	9.8
10.928000	---	24.97	50.00	25.03	N	ON	9.8
10.928000	33.09	---	60.00	26.91	N	ON	9.8
26.524000	---	32.95	50.00	17.05	N	ON	9.9
26.524000	42.77	---	60.00	17.23	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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

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.

**3.2.2 TEST INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161964	Feb. 24,22	Feb. 23,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 27,21	Apr. 26,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 30,21	Apr. 29,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.05,21	Sep.04,22

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

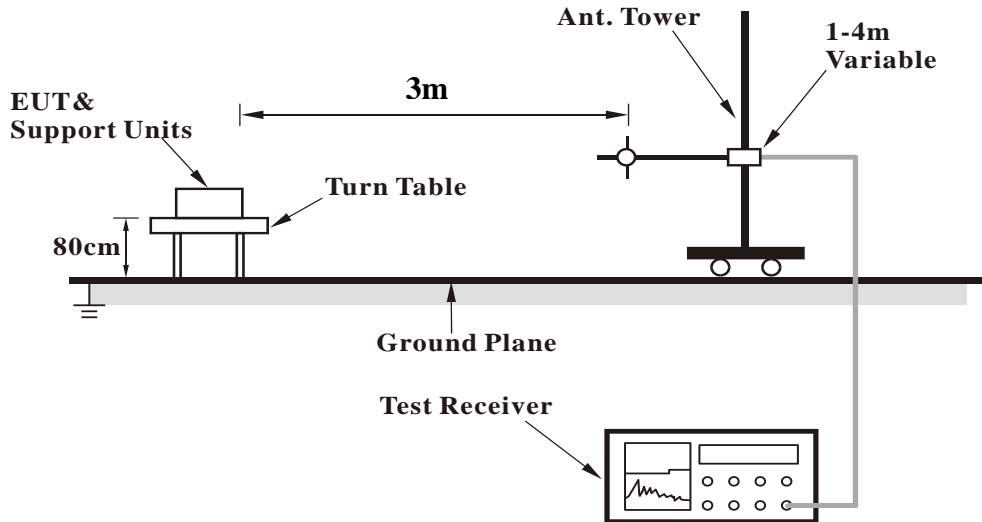
3.2.4 DEVIATION FROM TEST STANDARD

No deviation

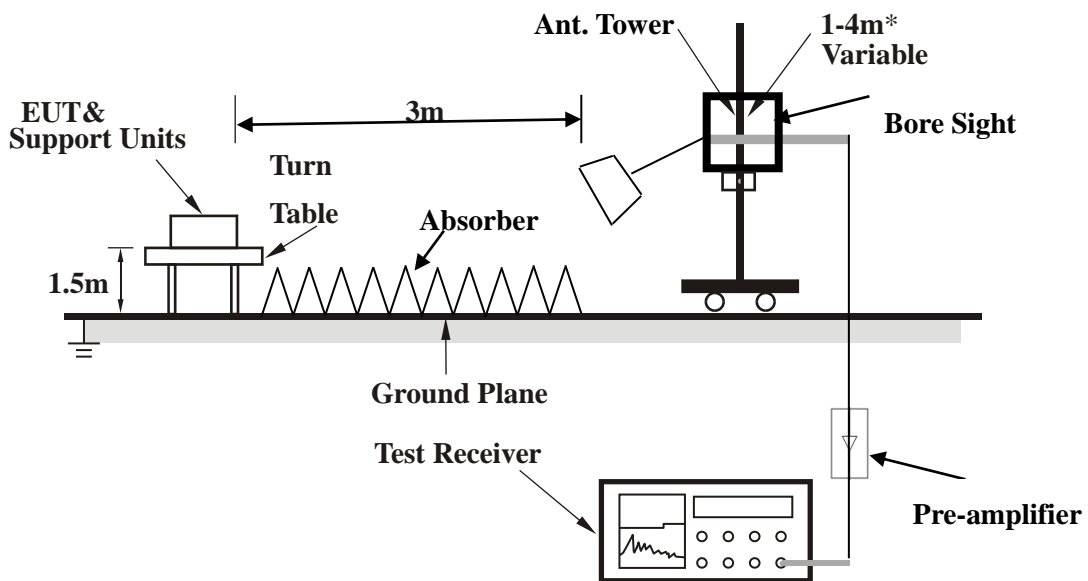


3.2.5 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF03

3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

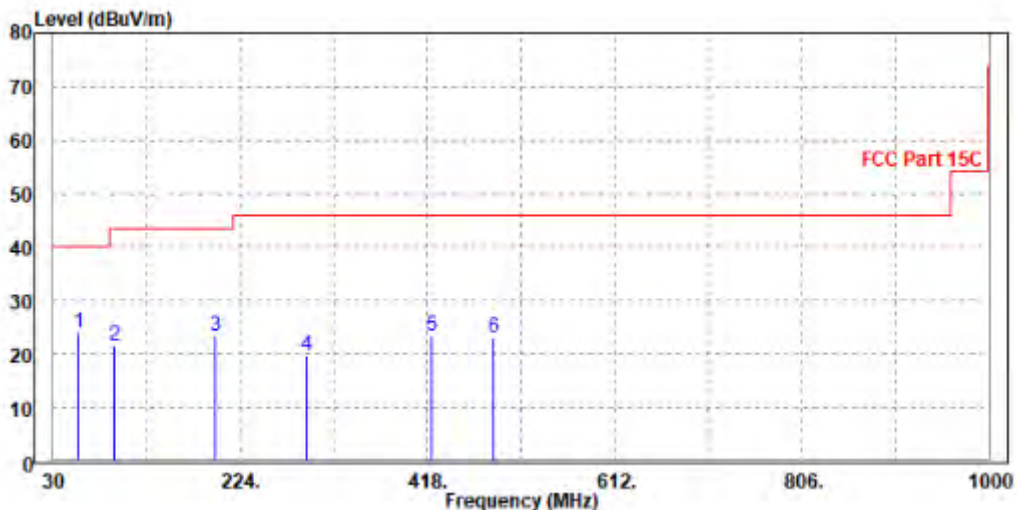
802.11ax (40MHz) (RU484):

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
56.19	24.16	53.08	40	-15.84	7.98	0.43	37.33	300	360	QP
94.02	21.61	50.34	43.5	-21.89	7.96	0.52	37.21	300	360	QP
197.81	23.31	48.23	43.5	-20.19	10.91	0.73	36.56	300	360	QP
292.87	19.83	41.78	46	-26.17	13.89	0.9	36.74	300	360	QP
422.85	23.33	41.78	46	-22.67	17.31	1.11	36.87	300	360	QP
486.87	22.99	40.31	46	-23.01	18.46	1.2	36.98	300	360	QP

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.



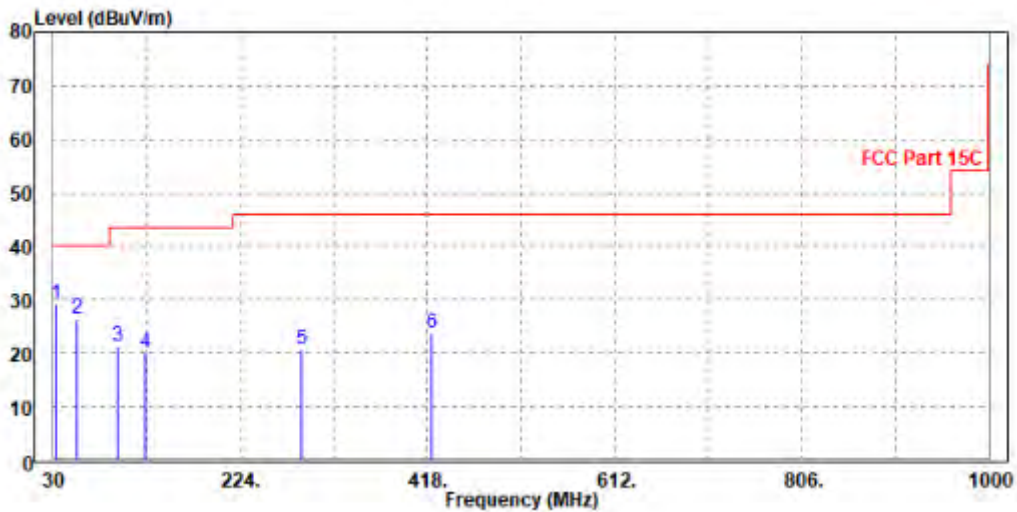


CHANNEL	TX Channel 3	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	29.27	47.02	40	-10.73	19.35	0.32	37.42	200	0	QP
55.22	26.37	54.84	40	-13.63	8.43	0.43	37.33	200	0	QP
95.96	21.34	49.58	43.5	-22.16	8.44	0.52	37.2	200	0	QP
125.06	20.21	48.75	43.5	-23.29	7.9	0.6	37.04	200	0	QP
287.05	20.82	41.96	46	-25.18	14.69	0.89	36.72	200	0	QP
422.85	23.71	41.84	46	-22.29	17.63	1.11	36.87	200	0	QP

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.





2.4G WIFI-RU

ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.

2.All other emissions were greater than 20dB below the limit is not recorded

802.11ax (20MHz) (RU26):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.9	60.66	74	-22.1	31.75	5.86	46.37	105	135	Peak
2390	44.23	52.99	54	-9.77	31.75	5.86	46.37	105	135	Average
2412	111.36	120.02	/	/	31.82	5.89	46.37	105	135	Peak
2412	102.25	110.91	/	/	31.82	5.89	46.37	105	135	Average
2483.5	52.48	60.81	74	-21.52	32.05	5.99	46.37	105	135	Peak
2483.5	43.77	52.1	54	-10.23	32.05	5.99	46.37	105	135	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.27	61.64	74	-20.73	32.14	5.86	46.37	100	45	Peak
2390	44.14	52.51	54	-9.86	32.14	5.86	46.37	100	45	Average
2412	103.55	111.84	/	/	32.19	5.89	46.37	100	45	Peak
2412	94.98	103.27	/	/	32.19	5.89	46.37	100	45	Average
2483.5	53.05	61.07	74	-20.95	32.36	5.99	46.37	100	45	Peak
2483.5	44.67	52.69	54	-9.33	32.36	5.99	46.37	100	45	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.68	60.44	74	-22.32	31.75	5.86	46.37	105	135	Peak
2390	43.87	52.63	54	-10.13	31.75	5.86	46.37	105	135	Average
2437	110.48	119.02	/	/	31.9	5.93	46.37	105	135	Peak
2437	102.18	110.72	/	/	31.9	5.93	46.37	105	135	Average
2483.5	51.93	60.26	74	-22.07	32.05	5.99	46.37	105	135	Peak
2483.5	43.91	52.24	54	-10.09	32.05	5.99	46.37	105	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.22	60.59	74	-21.78	32.14	5.86	46.37	100	45	Peak
2390	44.34	52.71	54	-9.66	32.14	5.86	46.37	100	45	Average
2437	104.36	112.55	/	/	32.25	5.93	46.37	100	45	Peak
2437	95.03	103.22	/	/	32.25	5.93	46.37	100	45	Average
2483.5	51.63	59.65	74	-22.37	32.36	5.99	46.37	100	45	Peak
2483.5	44.22	52.24	54	-9.78	32.36	5.99	46.37	100	45	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2437MHz: Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.31	61.07	74	-21.69	31.75	5.86	46.37	105	135	Peak
2390	44.61	53.37	54	-9.39	31.75	5.86	46.37	105	135	Average
2462	110.57	119	/	/	31.98	5.96	46.37	105	135	Peak
2462	101.17	109.6	/	/	31.98	5.96	46.37	105	135	Average
2483.5	60.49	68.82	74	-13.51	32.05	5.99	46.37	105	135	Peak
2483.5	49.18	57.51	54	-4.82	32.05	5.99	46.37	105	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.82	60.19	74	-22.18	32.14	5.86	46.37	100	45	Peak
2390	44.77	53.14	54	-9.23	32.14	5.86	46.37	100	45	Average
2462	102.35	110.45	/	/	32.31	5.96	46.37	100	45	Peak
2462	94.02	102.12	/	/	32.31	5.96	46.37	100	45	Average
2483.5	52.09	60.11	74	-21.91	32.36	5.99	46.37	100	45	Peak
2483.5	44.57	52.59	54	-9.43	32.36	5.99	46.37	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



802.11ax (20MHz) (RU242):

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	55.08	63.84	74	-18.92	31.75	5.86	46.37	100	90	Peak
2390	45.96	54.72	54	-8.04	31.75	5.86	46.37	100	90	Average
2412	104.76	113.42	/	/	31.82	5.89	46.37	100	90	Peak
2412	95.31	103.97	/	/	31.82	5.89	46.37	100	90	Average
2483.5	51.88	60.21	74	-22.12	32.05	5.99	46.37	100	90	Peak
2483.5	44.34	52.67	54	-9.66	32.05	5.99	46.37	100	90	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.51	60.88	74	-21.49	32.14	5.86	46.37	100	330	Peak
2390	44.43	52.8	54	-9.57	32.14	5.86	46.37	100	330	Average
2412	99.69	107.98	/	/	32.19	5.89	46.37	100	330	Peak
2412	92.37	100.66	/	/	32.19	5.89	46.37	100	330	Average
2483.5	51.8	59.82	74	-22.2	32.36	5.99	46.37	100	330	Peak
2483.5	44.34	52.36	54	-9.66	32.36	5.99	46.37	100	330	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2412MHz: Fundamental frequency.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.85	59.61	74	-23.15	31.75	5.86	46.37	100	90	Peak
2390	44.79	53.55	54	-9.21	31.75	5.86	46.37	100	90	Average
2437	103.73	112.27	/	/	31.9	5.93	46.37	100	90	Peak
2437	94.96	103.5	/	/	31.9	5.93	46.37	100	90	Average
2483.5	54.58	62.91	74	-19.42	32.05	5.99	46.37	100	90	Peak
2483.5	44.68	53.01	54	-9.32	32.05	5.99	46.37	100	90	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.31	59.68	74	-22.69	32.14	5.86	46.37	100	330	Peak
2390	44.75	53.12	54	-9.25	32.14	5.86	46.37	100	330	Average
2437	99.73	107.92	/	/	32.25	5.93	46.37	100	330	Peak
2437	89.77	97.96	/	/	32.25	5.93	46.37	100	330	Average
2483.5	52.48	60.5	74	-21.52	32.36	5.99	46.37	100	330	Peak
2483.5	44.19	52.21	54	-9.81	32.36	5.99	46.37	100	330	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.49	59.25	74	-23.51	31.75	5.86	46.37	100	90	Peak
2390	44.83	53.59	54	-9.17	31.75	5.86	46.37	100	90	Average
2462	105.5	113.93	/	/	31.98	5.96	46.37	100	90	Peak
2462	94.67	103.1	/	/	31.98	5.96	46.37	100	90	Average
2483.5	58.22	66.55	74	-15.78	32.05	5.99	46.37	100	90	Peak
2483.5	48.6	56.93	54	-5.4	32.05	5.99	46.37	100	90	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.53	59.9	74	-22.47	32.14	5.86	46.37	100	330	Peak
2390	44.66	53.03	54	-9.34	32.14	5.86	46.37	100	330	Average
2462	101.11	109.21	/	/	32.31	5.96	46.37	100	330	Peak
2462	90.27	98.37	/	/	32.31	5.96	46.37	100	330	Average
2483.5	54.61	62.63	74	-19.39	32.36	5.99	46.37	100	330	Peak
2483.5	46.25	54.27	54	-7.75	32.36	5.99	46.37	100	330	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2462MHz: Fundamental frequency.



802.11ax (40MHz) (RU26):

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.79	60.55	74	-22.21	31.75	5.86	46.37	105	135	Peak
2390	45.08	53.84	54	-8.92	31.75	5.86	46.37	105	135	Average
2422	111.81	120.42	/	/	31.85	5.91	46.37	105	135	Peak
2422	103.8	112.41	/	/	31.85	5.91	46.37	105	135	Average
2483.5	51.19	59.52	74	-22.81	32.05	5.99	46.37	105	135	Peak
2483.5	44.16	52.49	54	-9.84	32.05	5.99	46.37	105	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.15	61.52	74	-20.85	32.14	5.86	46.37	100	45	Peak
2390	44.76	53.13	54	-9.24	32.14	5.86	46.37	100	45	Average
2422	104.64	112.89	/	/	32.21	5.91	46.37	100	45	Peak
2422	95.91	104.16	/	/	32.21	5.91	46.37	100	45	Average
2483.5	51.47	59.49	74	-22.53	32.36	5.99	46.37	100	45	Peak
2483.5	44.65	52.67	54	-9.35	32.36	5.99	46.37	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.23	60.99	74	-21.77	31.75	5.86	46.37	105	135	Peak
2390	44.47	53.23	54	-9.53	31.75	5.86	46.37	105	135	Average
2437	111.31	119.85	/	/	31.9	5.93	46.37	105	135	Peak
2437	101.82	110.36	/	/	31.9	5.93	46.37	105	135	Average
2483.5	53.11	61.44	74	-20.89	32.05	5.99	46.37	105	135	Peak
2483.5	44.29	52.62	54	-9.71	32.05	5.99	46.37	105	135	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.19	59.56	74	-22.81	32.14	5.86	46.37	100	45	Peak
2390	45.5	53.87	54	-8.5	32.14	5.86	46.37	100	45	Average
2437	103.79	111.98	/	/	32.25	5.93	46.37	100	45	Peak
2437	95.78	103.97	/	/	32.25	5.93	46.37	100	45	Average
2483.5	53.39	61.41	74	-20.61	32.36	5.99	46.37	100	45	Peak
2483.5	44.66	52.68	54	-9.34	32.36	5.99	46.37	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.11	61.87	74	-20.89	31.75	5.86	46.37	100	110	Peak
2390	43.23	51.99	54	-10.77	31.75	5.86	46.37	100	110	Average
2452	112.56	121.03	/	/	31.95	5.95	46.37	100	110	Peak
2452	103.7	112.17	/	/	31.95	5.95	46.37	100	110	Average
2483.5	64.04	72.37	74	-9.96	32.05	5.99	46.37	100	110	Peak
2483.5	43.74	52.07	54	-10.26	32.05	5.99	46.37	100	110	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.7	60.07	74	-22.3	32.14	5.86	46.37	100	0	Peak
2390	44.6	52.97	54	-9.4	32.14	5.86	46.37	100	0	Average
2452	104.62	112.76	/	/	32.28	5.95	46.37	100	0	Peak
2452	96.9	105.04	/	/	32.28	5.95	46.37	100	0	Average
2483.5	51.98	60	74	-22.02	32.36	5.99	46.37	100	0	Peak
2483.5	45.17	53.19	54	-8.83	32.36	5.99	46.37	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2452MHz: Fundamental frequency.



802.11ax (40MHz) (RU484):

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	60.94	69.7	74	-13.06	31.75	5.86	46.37	110	135	Peak
2390	49.33	58.09	54	-4.67	31.75	5.86	46.37	110	135	Average
2422	102.94	111.55	/	/	31.85	5.91	46.37	110	135	Peak
2422	93.45	102.06	/	/	31.85	5.91	46.37	110	135	Average
2483.5	51.86	60.19	74	-22.14	32.05	5.99	46.37	110	135	Peak
2483.5	44.59	52.92	54	-9.41	32.05	5.99	46.37	110	135	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.48	60.85	74	-21.52	32.14	5.86	46.37	100	0	Peak
2390	45.59	53.96	54	-8.41	32.14	5.86	46.37	100	0	Average
2422	98	106.25	/	/	32.21	5.91	46.37	100	0	Peak
2422	88.63	96.88	/	/	32.21	5.91	46.37	100	0	Average
2483.5	51.74	59.76	74	-22.26	32.36	5.99	46.37	100	0	Peak
2483.5	44.83	52.85	54	-9.17	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2422MHz: Fundamental frequency.



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Test Report No.: W7L-P22030011RF03

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4844.000	44.02	47.28	74.00	-29.98	-3.26	Peak	Horizontal
2	4844.000	32.92	36.18	54.00	-21.08	-3.26	Average	Horizontal
3 PK	7266.000	48.50	46.46	74.00	-25.50	2.04	Peak	Horizontal
4 PP	7266.000	37.31	35.27	54.00	-16.69	2.04	Average	Horizontal

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4844.000	44.52	47.58	74.00	-29.48	-3.06	Peak	Vertical
2	4844.000	32.88	35.94	54.00	-21.12	-3.06	Average	Vertical
3 PK	7266.000	48.03	45.90	74.00	-25.97	2.13	Peak	Vertical
4 PP	7266.000	36.43	34.30	54.00	-17.57	2.13	Average	Vertical

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2422MHz: Fundamental frequency.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	54.59	63.35	74	-19.41	31.75	5.86	46.37	110	135	Peak
2390	46.95	55.71	54	-7.05	31.75	5.86	46.37	110	135	Average
2437	104.33	112.87	/	/	31.9	5.93	46.37	110	135	Peak
2437	94.32	102.86	/	/	31.9	5.93	46.37	110	135	Average
2483.5	53.11	61.44	74	-20.89	32.05	5.99	46.37	110	135	Peak
2483.5	46.71	55.04	54	-7.29	32.05	5.99	46.37	110	135	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	53.01	61.38	74	-20.99	32.14	5.86	46.37	100	0	Peak
2390	45.12	53.49	54	-8.88	32.14	5.86	46.37	100	0	Average
2437	98.47	106.66	/	/	32.25	5.93	46.37	100	0	Peak
2437	88.84	97.03	/	/	32.25	5.93	46.37	100	0	Average
2483.5	53.06	61.08	74	-20.94	32.36	5.99	46.37	100	0	Peak
2483.5	45.3	53.32	54	-8.7	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2437MHz: Fundamental frequency.



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CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.23	59.99	74	-22.77	31.75	5.86	46.37	110	135	Peak
2390	45.19	53.95	54	-8.81	31.75	5.86	46.37	110	135	Average
2452	104.76	113.23	/	/	31.95	5.95	46.37	110	135	Peak
2452	95.41	103.88	/	/	31.95	5.95	46.37	110	135	Average
2483.5	55.36	63.69	74	-18.64	32.05	5.99	46.37	110	135	Peak
2483.5	47.09	55.42	54	-6.91	32.05	5.99	46.37	110	135	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.66	60.03	74	-22.34	32.14	5.86	46.37	100	0	Peak
2390	44.7	53.07	54	-9.3	32.14	5.86	46.37	100	0	Average
2452	100.52	108.66	/	/	32.28	5.95	46.37	100	0	Peak
2452	88.63	96.77	/	/	32.28	5.95	46.37	100	0	Average
2483.5	53	61.02	74	-21	32.36	5.99	46.37	100	0	Peak
2483.5	44.93	52.95	54	-9.07	32.36	5.99	46.37	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2452MHz: Fundamental frequency.



3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Apr. 26,21	Apr. 25,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 24,22	Feb. 23,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 07,21	May. 06,22

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.3 TEST PROCEDURE

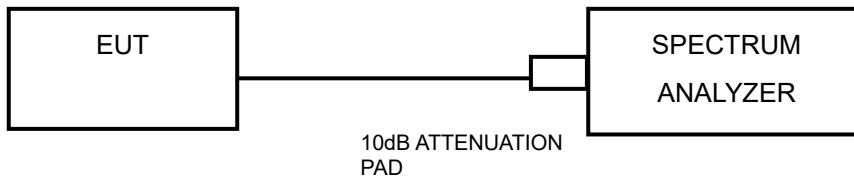
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.3.7 TEST RESULTS

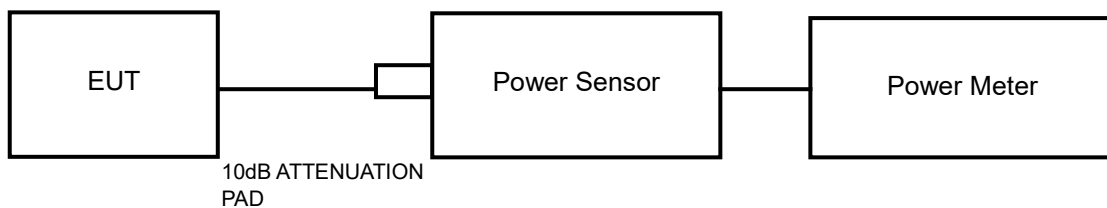
Please refer to APPENDIX

3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

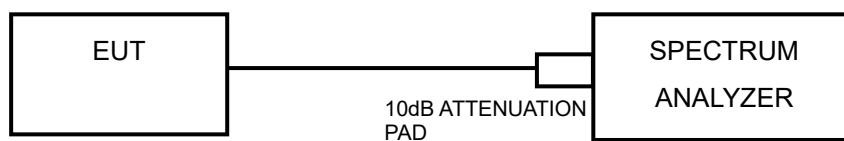
The test result for pass, Please refer to APPENDIX

3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW \geq 3 x RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.5.7 TEST RESULTS

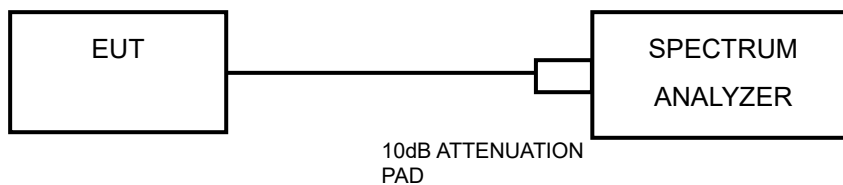
Please refer to APPENDIX

3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.



3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please refer to APPENDIX



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



5 APPENDIX DTS BANDWIDTH TEST RESULT

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant0	2412	26Tone	RU0	2.000	2402.5 20	2404.5 20	0.5	PASS
				RU4	2.560	2410.7 20	2413.2 80	0.5	PASS
				RU8	2.000	2419.4 80	2421.4 80	0.5	PASS
			242Tone	RU61	19.000	2402.5 20	2421.5 20	0.5	PASS
	Ant1	2412	26Tone	RU0	2.000	2402.5 60	2404.5 60	0.5	PASS
				RU4	2.560	2410.7 20	2413.2 80	0.5	PASS
				RU8	10.760	2410.6 80	2421.4 40	0.5	PASS
			242Tone	RU61	17.200	2402.6 00	2419.8 00	0.5	PASS
	Ant0	2437	26Tone	RU0	2.000	2427.5 20	2429.5 20	0.5	PASS
				RU4	2.640	2435.6 80	2438.3 20	0.5	PASS
				RU8	1.960	2444.4 80	2446.4 40	0.5	PASS
			242Tone	RU61	19.040	2427.4 80	2446.5 20	0.5	PASS
	Ant1	2437	26Tone	RU0	2.040	2427.5 20	2429.5 60	0.5	PASS
				RU4	2.600	2435.6 80	2438.2 80	0.5	PASS



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			RU8	2.080	2444.4 40	2446.5 20	0.5	PASS		
			242Tone	RU61	18.880	2427.6 00	2446.4 80	0.5	PASS	
	Ant0	2462	26Tone	RU0	2.000	2452.5 20	2454.5 20	0.5	PASS	
				RU4	2.640	2460.6 80	2463.3 20	0.5	PASS	
				RU8	2.080	2469.4 40	2471.5 20	0.5	PASS	
			242Tone	RU61	18.800	2452.6 00	2471.4 00	0.5	PASS	
	Ant1	2462	26Tone	RU0	2.000	2452.5 20	2454.5 20	0.5	PASS	
				RU4	2.560	2460.7 20	2463.2 80	0.5	PASS	
				RU8	1.960	2469.4 80	2471.4 40	0.5	PASS	
			242Tone	RU61	18.760	2452.6 80	2471.4 40	0.5	PASS	
	11AX40MIM O	Ant0	2422	26Tone	RU0	2.000	2403.0 40	2405.0 40	0.5	PASS
					RU8	2.000	2419.6 80	2421.6 80	0.5	PASS
RU17				2.080	2438.9 60	2441.0 40	0.5	PASS		
484Tone			RU65	37.840	2403.2 00	2441.0 40	0.5	PASS		
Ant1		2422	26Tone	RU0	4.000	2402.9 60	2406.9 60	0.5	PASS	
				RU8	2.000	2419.6 80	2421.6 80	0.5	PASS	
				RU17	2.000	2439.0 40	2441.0 40	0.5	PASS	
			484Tone	RU65	38.000	2403.0	2441.0	0.5	PASS	



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						40	40		
Ant0	2437	26Tone	RU0	2.000	2417.9	2419.9	0.5	PASS	
			RU8	2.080	2434.6	2436.7	0.5	PASS	
			RU17	2.080	2453.9	2456.0	0.5	PASS	
		484Tone	RU65	37.760	2418.0	2455.8	0.5	PASS	
Ant1	2437	26Tone	RU0	2.080	2417.9	2420.0	0.5	PASS	
			RU8	2.080	2434.6	2436.7	0.5	PASS	
			RU17	1.920	2454.0	2455.9	0.5	PASS	
		484Tone	RU65	36.320	2419.4	2455.8	0.5	PASS	
Ant0	2452	26Tone	RU0	2.080	2432.9	2435.0	0.5	PASS	
			RU8	2.080	2449.6	2451.7	0.5	PASS	
			RU17	2.080	2468.9	2471.0	0.5	PASS	
		484Tone	RU65	37.440	2433.2	2470.6	0.5	PASS	
Ant1	2452	26Tone	RU0	16.560	2432.9	2449.5	0.5	PASS	
			RU8	2.080	2449.6	2451.7	0.5	PASS	
			RU17	1.920	2469.0	2470.9	0.5	PASS	
		484Tone	RU65	37.280	2433.6	2470.8	0.5	PASS	



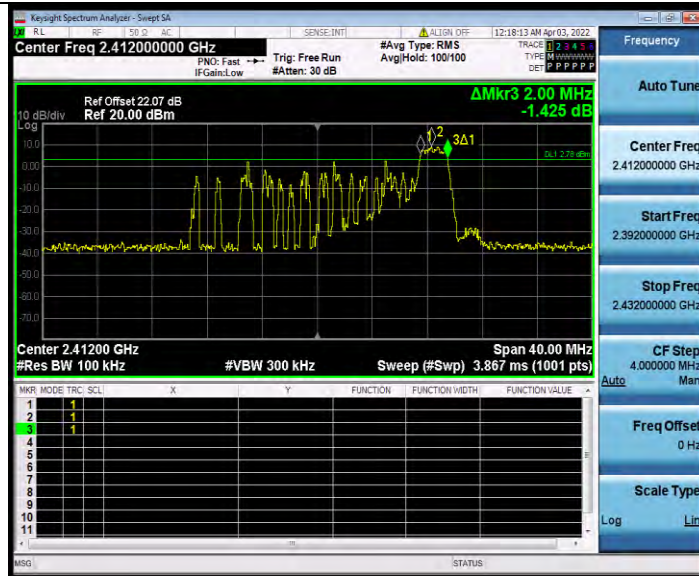
TEST GRAPHS



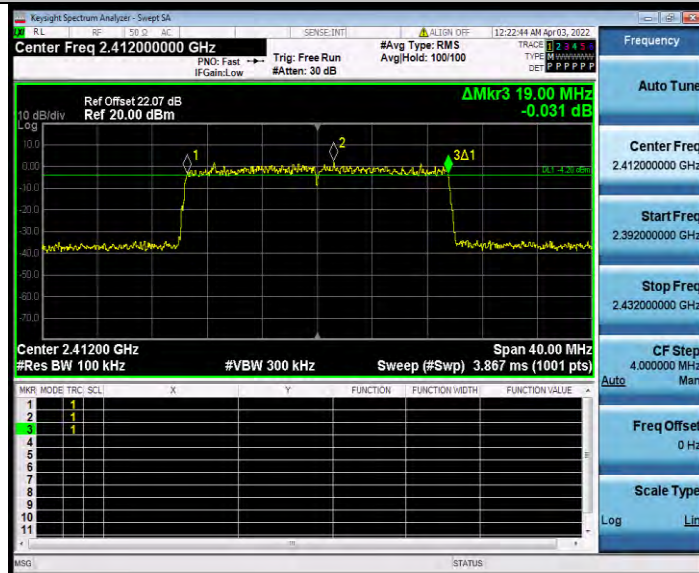


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11AX20MIMO_Ant0_2412_242Tone_RU61

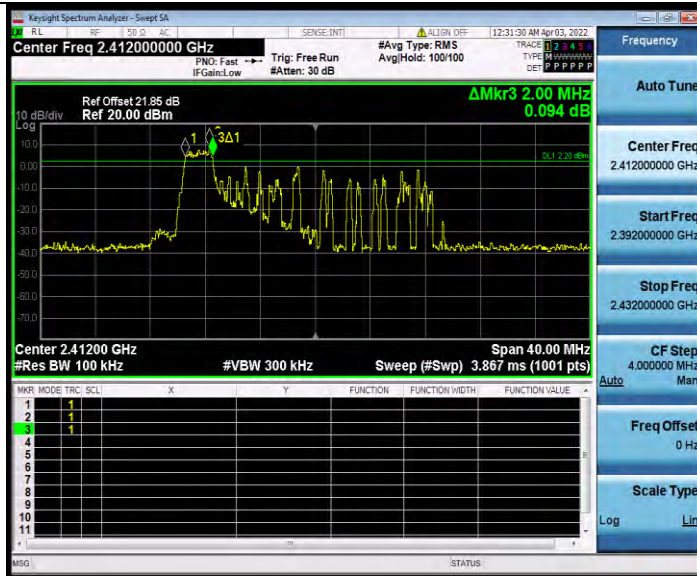


11AX20MIMO_Ant1_2412_26Tone_RU0



BUREAU VERITAS

Test Report No.: W7L-P22030011RF03



11AX20MIMO_Ant1_2412_26Tone_RU4



11AX20MIMO_Ant1_2412_26Tone_RU8

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

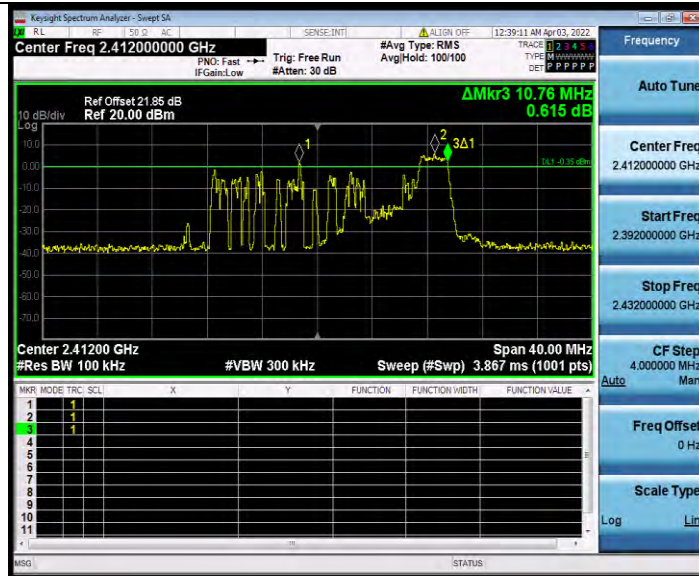
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
 Fax: +86 755 8869 6577
 Email: customerservice.sw@bureauveritas.com

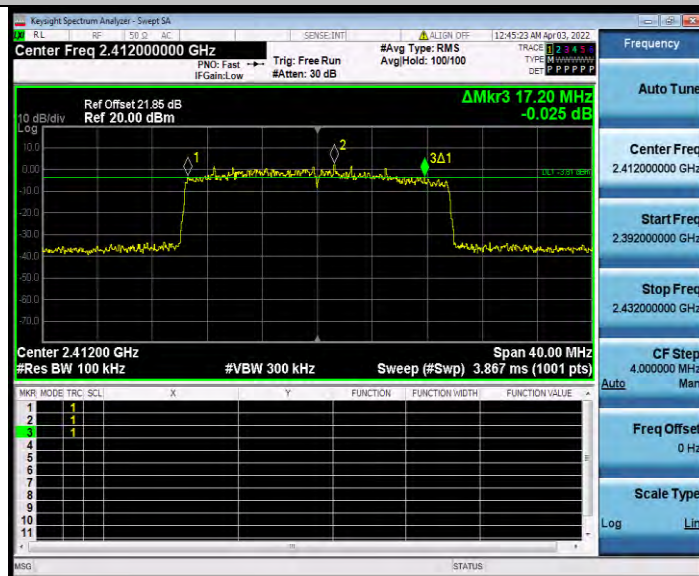


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11AX20MIMO_Ant1_2412_242Tone_RU61

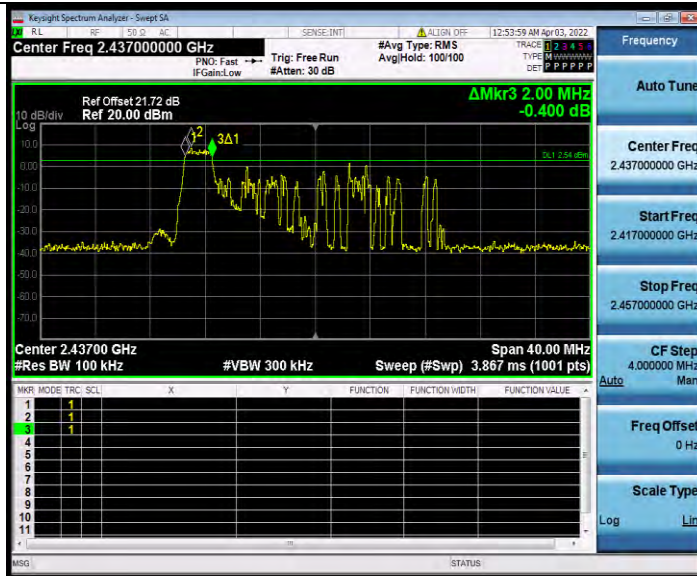


11AX20MIMO_Ant0_2437_26Tone_RU0



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Test Report No.: W7L-P22030011RF03



11AX20MIMO_Ant0_2437_26Tone_RU4



11AX20MIMO_Ant0_2437_26Tone_RU8

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(Shenzhen) Co., Ltd

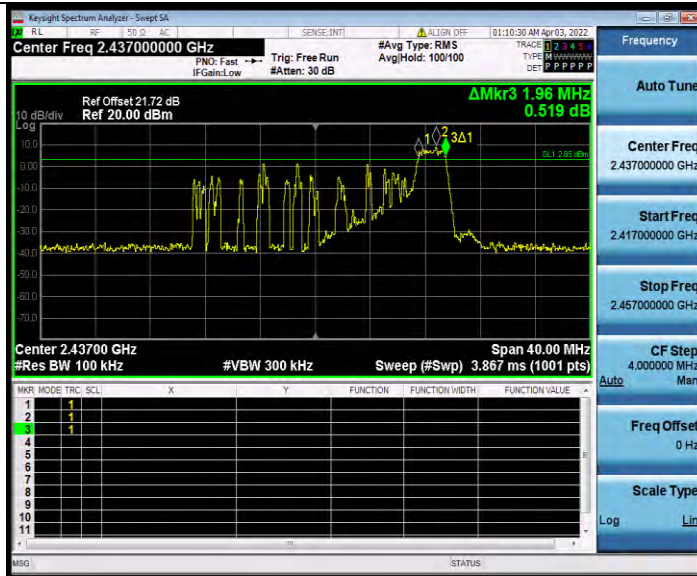
No.B102, Dazu Chuangxin Mansion, North of Beihuan
Avenue, North Area, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com

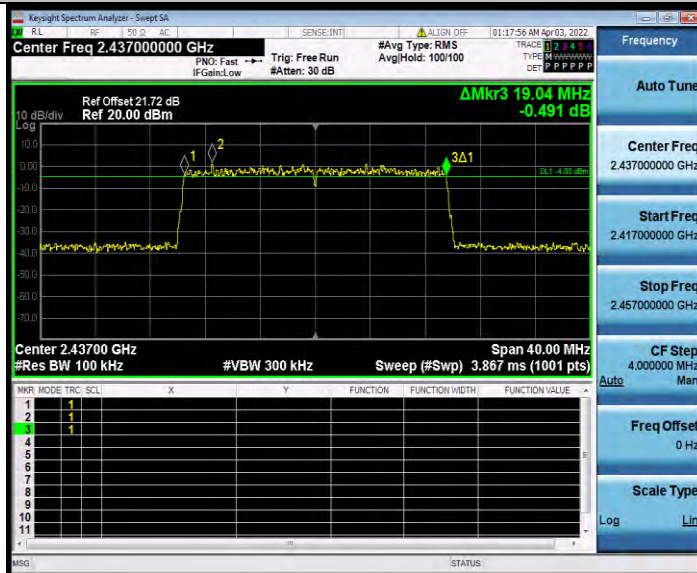


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Test Report No.: W7L-P22030011RF03



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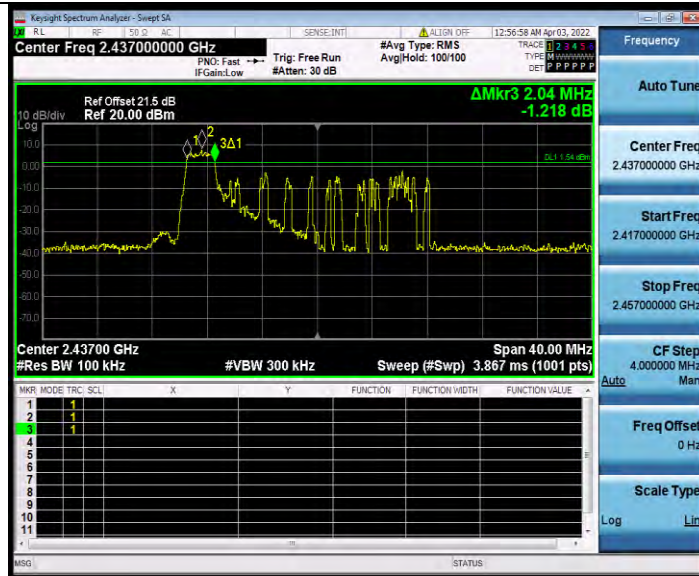


11AX20MIMO_Ant1_2437_26Tone_RU0



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Test Report No.: W7L-P22030011RF03



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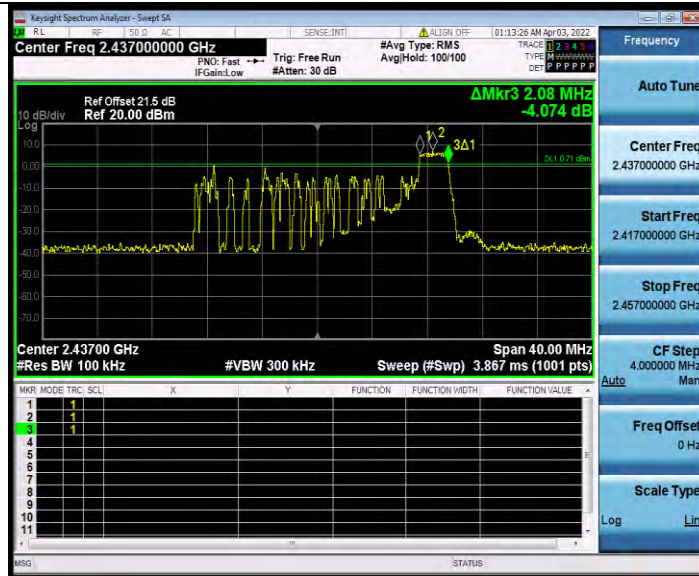


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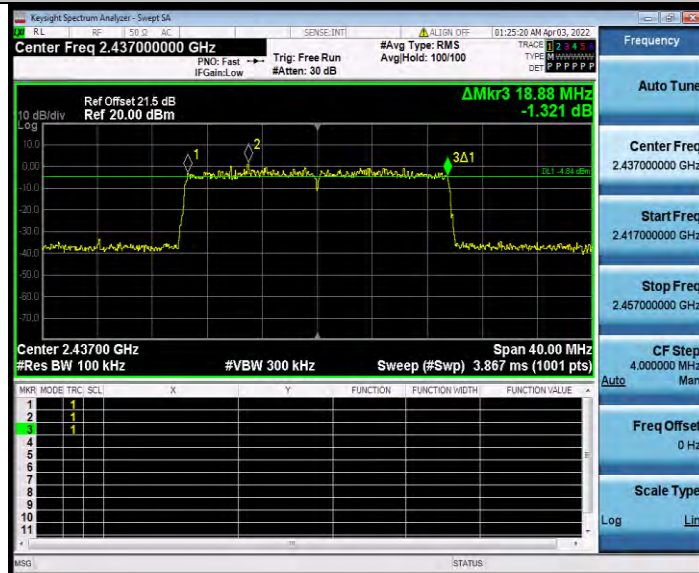


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Test Report No.: W7L-P22030011RF03



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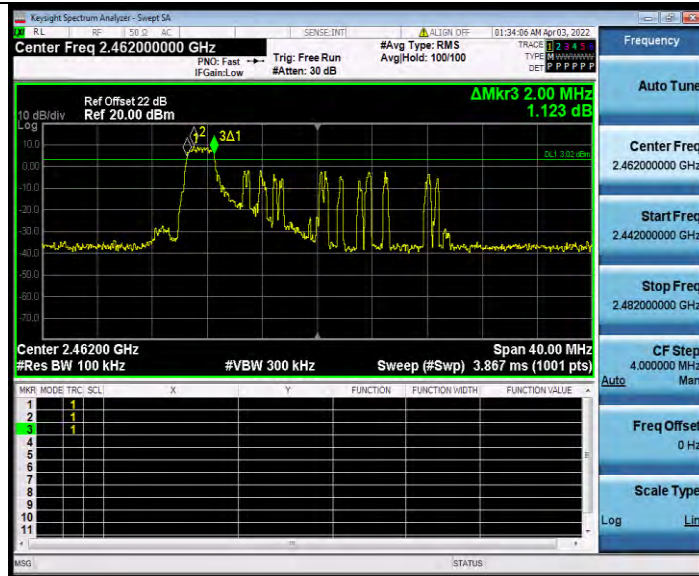


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Test Report No.: W7L-P22030011RF03



11AX20MIMO_Ant0_2462_26Tone_RU4



11AX20MIMO_Ant0_2462_26Tone_RU8

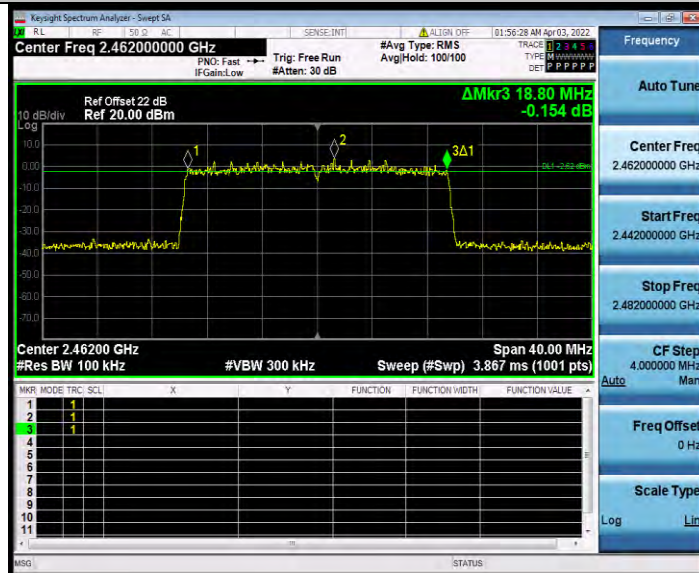


BUREAU VERITAS

Test Report No.: W7L-P22030011RF03



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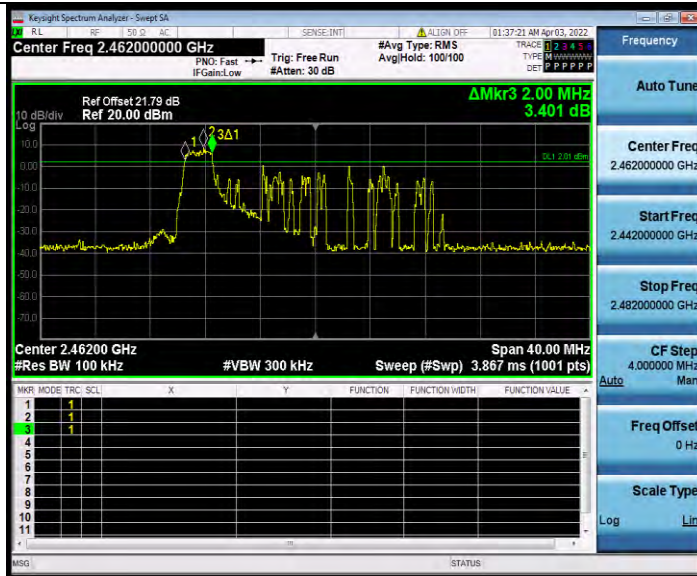


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BUREAU VERITAS

Test Report No.: W7L-P22030011RF03



11AX20MIMO_Ant1_2462_26Tone_RU4



11AX20MIMO_Ant1_2462_26Tone_RU8

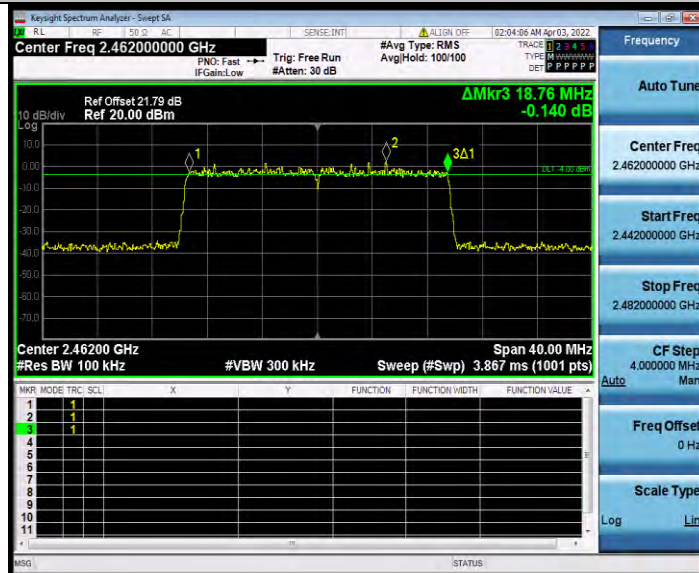


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Test Report No.: W7L-P22030011RF03



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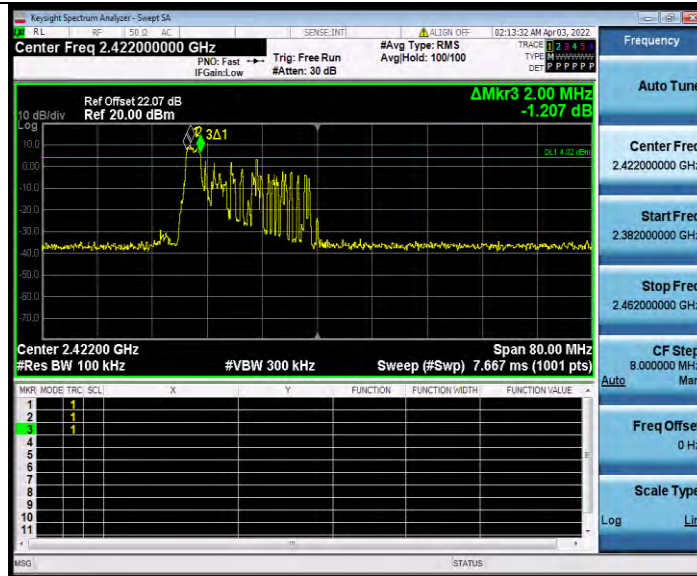


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Test Report No.: W7L-P22030011RF03



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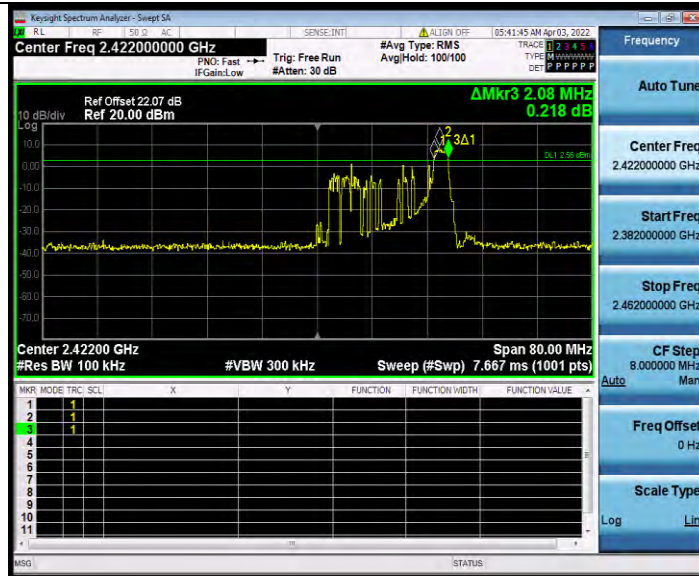


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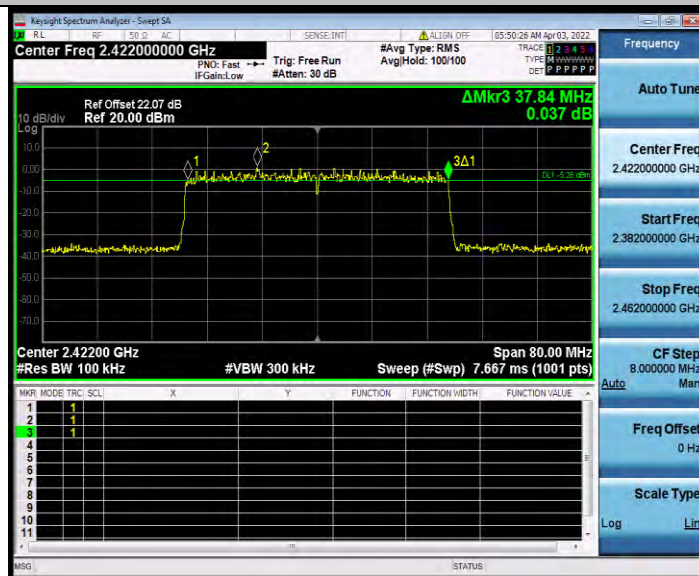


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Test Report No.: W7L-P22030011RF03



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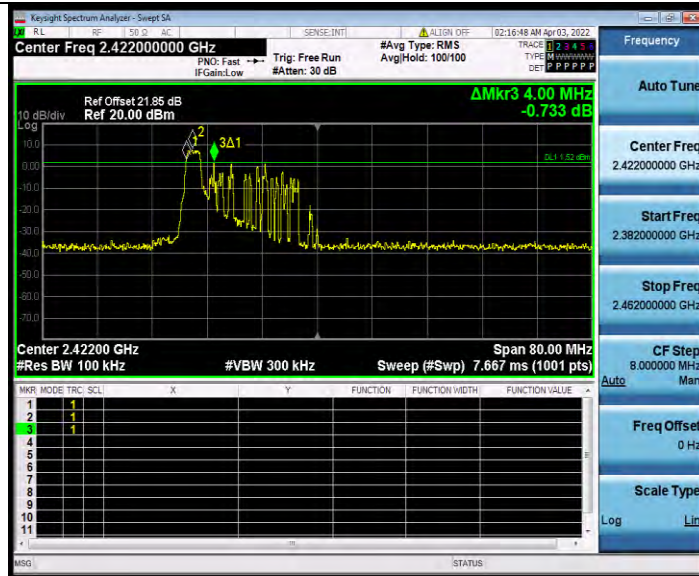


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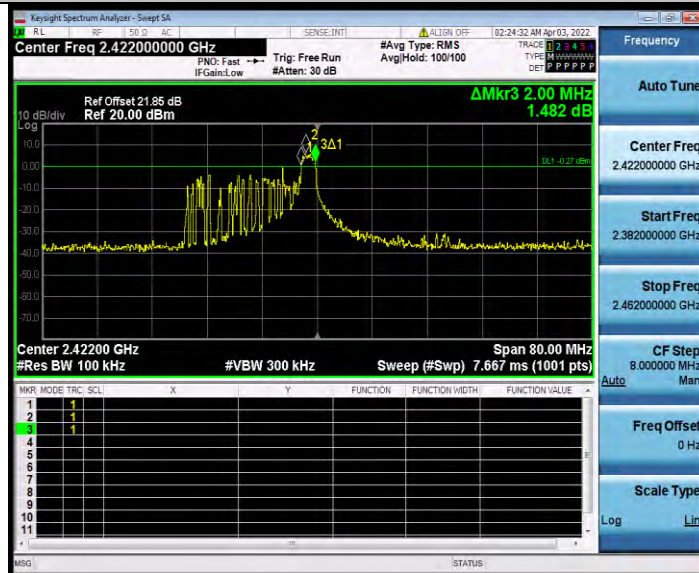


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Test Report No.: W7L-P22030011RF03



11AX40MIMO_Ant1_2422_26Tone_RU8



11AX40MIMO_Ant1_2422_26Tone_RU17

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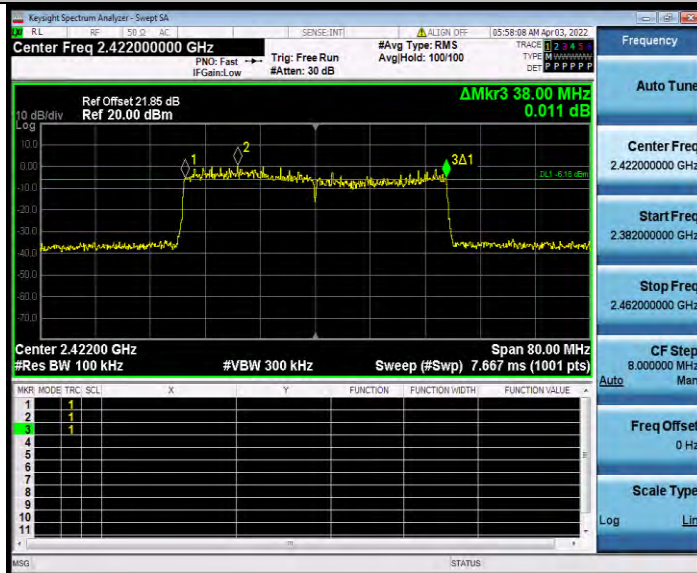


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Test Report No.: W7L-P22030011RF03



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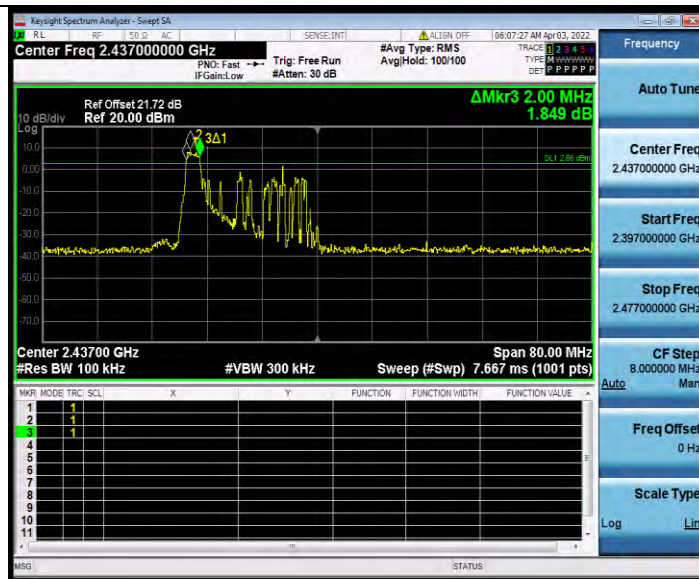


11AX40MIMO_Ant0_2437_26Tone_RU0



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Test Report No.: W7L-P22030011RF03



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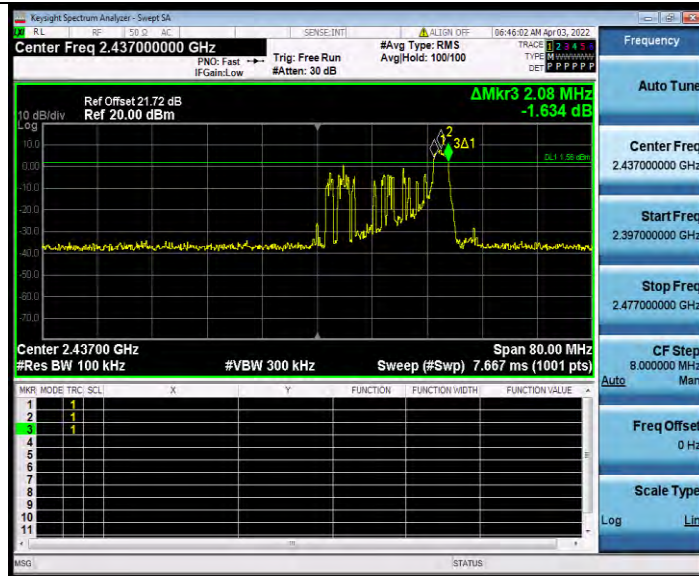


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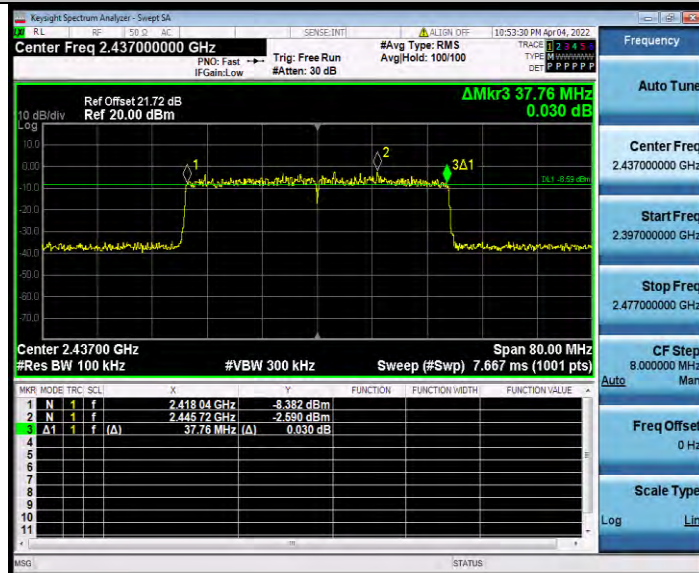


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Test Report No.: W7L-P22030011RF03



11AX40MIMO_Ant0_2437_484Tone_RU65



11AX40MIMO_Ant1_2437_26Tone_RU0



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Test Report No.: W7L-P22030011RF03



11AX40MIMO_Ant1_2437_26Tone_RU8



11AX40MIMO_Ant1_2437_26Tone_RU17



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Test Report No.: W7L-P22030011RF03



11AX40MIMO_Ant1_2437_484Tone_RU65



11AX40MIMO_Ant0_2452_26Tone_RU0

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