



Test report No.: 22A0288R-RFUSV01S-A

TEST REPORT

Product Name	Internet Gateway
Trademark	Verizon
Model and /or type reference	WNC-CR200A
FCC ID	NKR-LV65C-T3
Applicant's name / address	Wistron NeWeb Corporation 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
Manufacturer's name	Wistron NeWeb Corporation
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / Ida Tung)	Ida Tung
Tested By (Senior Engineer / Ivan Chuang)	Ivan Chuang
Approved By (Senior Engineer / Jack Hsu)	Jack Hsu
Date of Receipt	2022/10/13
Date of Issue	2023/06/09
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

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General conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Report No.	Version	Description	Issued Date
22A0288R-RFUSV01S-A	V1.0	Initial issue of report.	2023/06/09

1. General Information

1.1. EUT Description

Product Name	Internet Gateway
Trademark	Verizon
Model and /or type reference	WNC-CR200A
EUT Rated Voltage	AC 100-120V / 60Hz
EUT Test Voltage	AC 120V / 60Hz
Frequency Range	802.11b/g/n/ac/ax-20: 2412-2462 MHz, 802.11n/ac/ax-40: 2422-2452 MHz
Number of Channels	802.11b/g/n/ac/ax-20 MHz: 11CH, 802.11n/ac/ax-40 MHz: 7CH
Data Speed	802.11b: 1-11 Mbps, 802.11g: 6-54 Mbps, 802.11n: MCS0-MCS31 802.11ac: MCS0-MCS9, 802.11ax: MCS0-MCS11
Type of Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM, OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Control	Auto
Adapter (1)	MFR: Lucent Trans, M/N: 1A100-US1230 Input: AC 100 - 120V~ 60Hz, 1.0A Output: 12.0V= 3.0A, 36.0W Cable out: Non-shielded, 1.8m
Adapter (2)	MFR: Delta, M/N: ADH-36NW B Input: AC 100 - 120V~ 60Hz, 0.9A Output: 12.0V= 3.0A Cable out: Non-shielded, 1.7m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	WNC	LV65C-WiFi-S9H	Dipole	1.28 dBi for 2400 MHz
2	WNC	LV65C-WiFi-S9V	Dipole	1.28 dBi for 2400 MHz
3	WNC	LV65C-WiFi-S10H	Dipole	2.64 dBi for 2400 MHz
4	WNC	LV65C-WiFi-S10V	Dipole	1.88 dBi for 2400 MHz

Note: The antenna of EUT is conforming to FCC 15.203.

Directional gain for CDD Power: 2.64 dBi for 2400 MHz

(Directional gain = $G_{ANT\ MAX}$ + Array Gain, Array Gain = 0 dB for $N_{ANT} \leq 4$)

Directional gain for Beamforming Power and PSD: 3.49 dBi for 2400 MHz

(Directional gain refer to antenna report provided by customer)

802.11b/g/n/ac/ax-20 MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412	02	2417	03	2422	04	2427
05	2432	06	2437	07	2442	08	2447
09	2452	10	2457	11	2462	--	--

802.11n/ac/ax-40 MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422	04	2427	05	2432	06	2437
07	2442	08	2447	09	2452	--	--

Note:

1. The EUT is an Internet Gateway with a built-in WLAN and WWAN transceiver, this report for 2400 MHz WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test. The other channels are for reference only.
3. After evaluation and investigation, the worst case for Adapter (1) and Adapter (2) is Adapter (1), so it was used to perform all testing and record in the test report.
4. Lowest data rates are tested in each mode. Only worst case is shown in the report.
(802.11b is 1 Mbps, 802.11g is 6 Mbps, 802.11ax-20 MHz/40 MHz is MCS0)
5. The spectrum plot for conducted items only shows the worst case.
6. This device does not support partial RU function.
7. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n/ac/ax transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.

Test Mode	Transmit (802.11b)-CDD
	Transmit (802.11g)-CDD
	Transmit (802.11ax-20 MHz)-CDD
	Transmit (802.11ax-40 MHz)-CDD
	Transmit (802.11ax-20 MHz)-Beamforming
	Transmit (802.11ax-40 MHz)-Beamforming
	Transmit Co-location for WLAN + WWAN

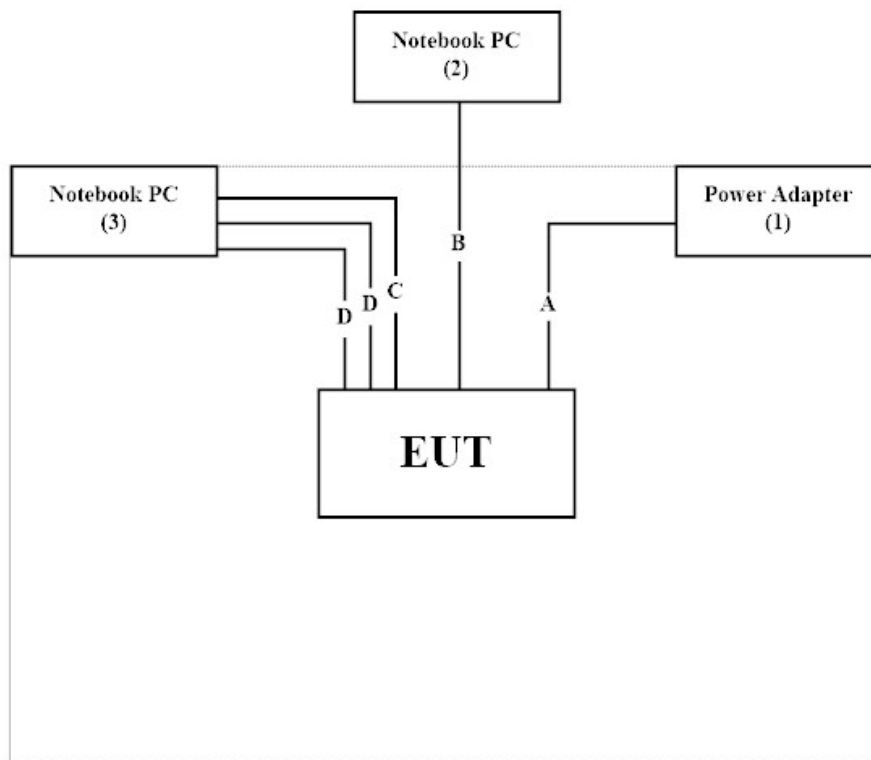
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Power Adapter	Lucent Trans	1A100-US1230	N/A	N/A
2 Notebook PC	DELL	Latitude 5580	GDZN7H2	N/A
3 Notebook PC	DELL	Latitude E5440	FS9TK32	N/A

Cable Type	Cable Description
A Power Cable	Non-shielded, 1.8m
B LAN Cable	Non-shielded, 10m
C LAN Cable	Non-shielded, 2m
D USB Cable	Shielded, 1m, 2pcs

1.3. Configuration of Tested System



1.4. EUT Exercise Software

1.	Setup the EUT as shown in Section 1.3.
2.	Execute software “QSPR Version 5.0-00202” on the Notebook PC.
3.	Configure the test mode, test channel, and data rate.
4.	Press “OK” to start the continuous transmit.
5.	Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	22.3 °C
	Humidity (%RH)	10~90 %	58.8 %
Radiated Emission	Temperature (°C)	10~40 °C	24.3 °C
	Humidity (%RH)	10~90 %	66.3 %
Conductive	Temperature (°C)	10~40 °C	23.8 °C
	Humidity (%RH)	10~90 %	55.0 %

USA	FCC Registration Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

1.6. List of Test Item and Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2022/06/23	2023/06/22
V	Two-Line V-Network	R&S	ENV216	101307	2022/07/04	2023/07/03
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2023/01/10	2024/01/09

Note:

1. The test instruments marked with “V” are used to measure the final test results.
2. Test Software Version: e3 230303 dekra.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103466	2022/12/20	2023/12/21
V	Power Sensor	KEYSIGHT	N1923A	MY59240002	2022/08/05	2023/08/04
V	Power Sensor	KEYSIGHT	N1923A	MY59240003	2022/08/05	2023/08/04

Note:

1. The test instruments marked with “V” are used to measure the final test results.
2. Test Software Version: RF Conducted Test Tools Ver3.0.1.14

For Radiated Measurements / HY-CB01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	AMETEK	HLA6121	49611	2023/02/21	2024/02/20
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2021/08/11	2023/08/10
V	Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2022/06/08	2023/06/07
V	Horn Antenna	Com-Power	AH-840	101101	2021/11/30	2023/11/29
V	Pre-Amplifier	SGH	0301	20211007-7	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC051845SE	980632	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980361	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC184045SE	980369	2023/01/10	2024/01/09
	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
V	EMI Test Receiver	R&S	ESR3	102792	2022/12/29	2023/12/28
V	Spectrum Analyzer	R&S	FSVA40	101435	2022/06/04	2023/06/03
V	Spectrum Analyzer	R&S	FSV3044	101115	2023/01/06	2024/01/05
V	UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321672	2022/05/31	2023/05/30
V	Universal Radio Communication Tester	Anritsu	MT8820C	6201465467	2022/08/10	2023/08/09
V	Coaxial Cable	SUHNER	SUCOFLEX 106	25450/6	2023/01/10	2024/01/09
	Coaxial Cable	SGH	HA800	GD20110222-8		
	Coaxial Cable	SGH	SGH18	2021003-8		
	Coaxial Cable	EMCI	EMC106	151113		

Note:

1. The test instruments marked with “V” are used to measure the final test results.
2. Test Software Version: e3 230303 dekra.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

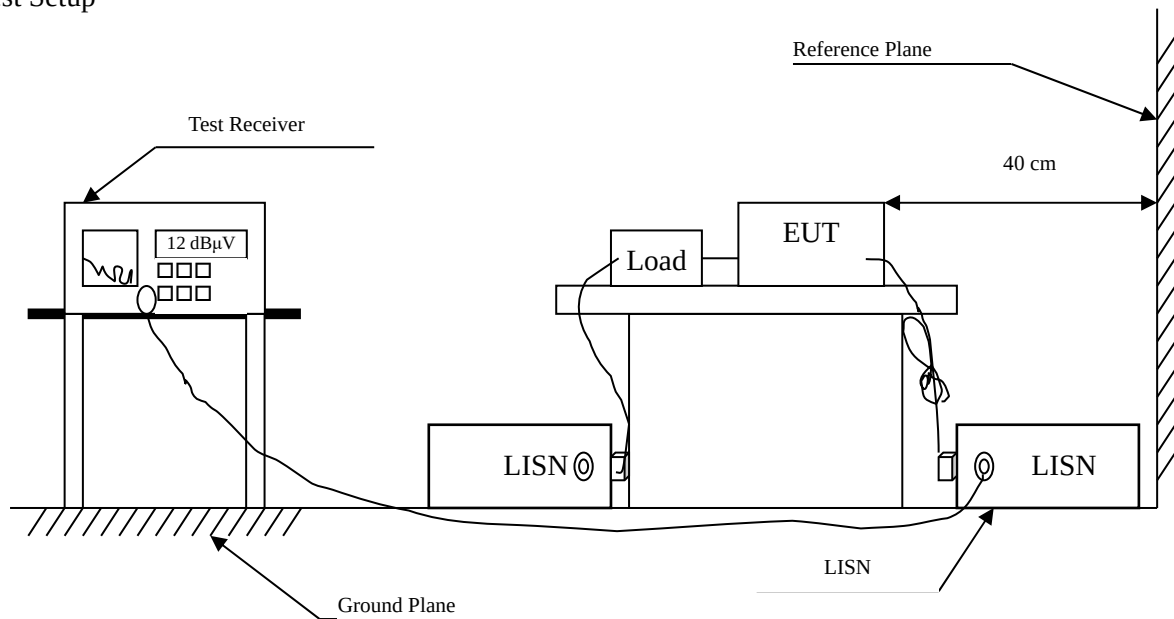
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Item	Uncertainty
Conducted Emission	± 3.50 dB
Peak Power Output	± 1.05 dB
Radiated Emission	9k Hz~30 MHz: ± 3.88 dB 30 MHz~1 GHz: ± 4.42 dB 1 GHz~18 GHz: ± 4.28 dB 18 GHz~40 GHz: ± 3.90 dB
RF Antenna Conducted Test	± 2.14 dB
Band Edge	± 4.28 dB
6 dB Bandwidth	± 1580.61 Hz
Power Density	± 2.14 dB
Duty Cycle	± 0.53 %

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

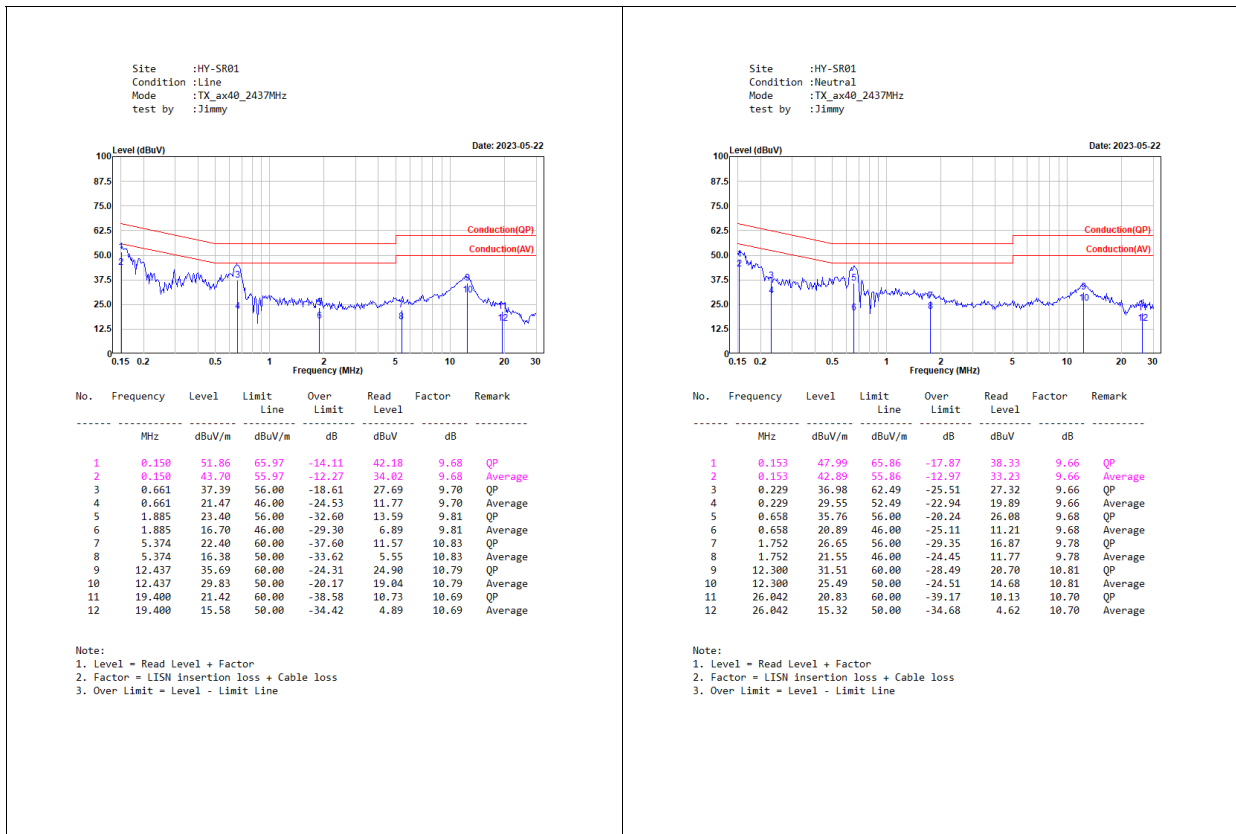
2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50 μ H coupling impedance with 50 ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

2.4. Test Result of Conducted Emission



3. Maximum Power Output

3.1. Test Setup



3.2. Limits

The maximum peak power shall be less 1 Watt.

3.3. Test Procedure

The EUT was tested according to C63.10:2013 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using C63.10:2013 Section 11.9.1.3 PKPM1 Peak power meter method. The maximum average conducted output power using C63.10:2013 Section 11.9.2.3 Measurement using a power meter (PM). (Measurement using a gated RF average-reading power meter). The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4. Test Result of Maximum Power Output

Product : Internet Gateway
 Test Item : Maximum Power Output Data
 Test Mode : Transmit (802.11b)-CDD
 Test Date : 2023/03/28

Chain A+B+C+D

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
01	2412	1	23.54	23.60	23.47	23.64	29.58	<30	Pass
06	2437	1	23.86	23.85	23.67	23.69	29.79	<30	Pass
11	2462	1	24.05	23.54	23.77	23.72	29.79	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \times \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

Product : Internet Gateway
Test Item : Maximum Power Output Data
Test Mode : Transmit (802.11g)-CDD
Test Date : 2023/03/28

Chain A+B+C+D

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
01	2412	6	23.56	23.68	23.56	23.75	29.66	<30	Pass
06	2437	6	23.50	23.64	23.55	23.58	29.59	<30	Pass
11	2462	6	23.44	23.50	23.48	23.34	29.46	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \times \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

Product : Internet Gateway
Test Item : Maximum Power Output Data
Test Mode : Transmit (802.11ax-20 MHz)-CDD
Test Date : 2023/03/28

Chain A+B+C+D

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
01	2412	MCS0	23.37	22.31	23.29	22.45	28.90	<30	Pass
06	2437	MCS0	23.67	23.67	23.65	23.63	29.68	<30	Pass
11	2462	MCS0	22.78	22.70	22.63	22.64	28.71	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \cdot \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

Product : Internet Gateway
Test Item : Maximum Power Output Data
Test Mode : Transmit (802.11ax-40 MHz)-CDD
Test Date : 2023/03/28

Chain A+B+C+D

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
03	2422	MCS0	23.68	23.89	23.76	23.70	29.78	<30	Pass
06	2437	MCS0	23.89	23.98	23.87	23.90	29.93	<30	Pass
09	2452	MCS0	21.87	21.94	21.89	21.95	27.93	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \cdot \log (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

Product : Internet Gateway
Test Item : Maximum Power Output Data
Test Mode : Transmit (802.11ax-20 MHz)-Beamforming
Test Date : 2023/05/03

Chain A+B+C+D

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
01	2412	MCS0	24.39	23.36	24.27	23.33	29.89	<30	Pass
06	2437	MCS0	23.52	23.45	23.30	23.49	29.46	<30	Pass
11	2462	MCS0	23.93	23.71	23.81	23.69	29.81	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \cdot \log (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

Product : Internet Gateway
 Test Item : Maximum Power Output Data
 Test Mode : Transmit (802.11ax-40 MHz)-Beamforming
 Test Date : 2023/05/03

Chain A+B+C+D

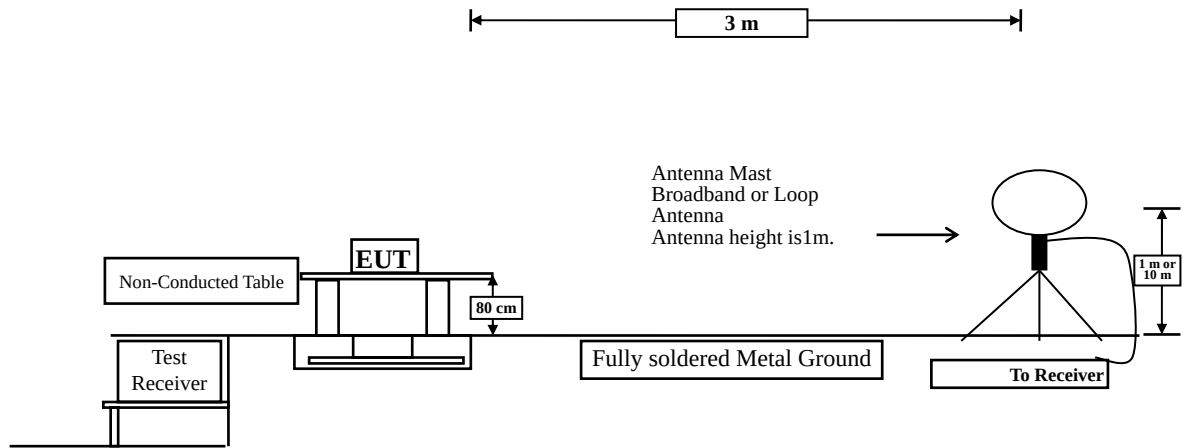
Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Chain A+B+C+D Power (dBm)	Limit (dBm)	Result
03	2422	MCS0	23.47	23.71	23.65	23.47	29.60	<30	Pass
06	2437	MCS0	23.69	23.83	23.69	23.73	29.76	<30	Pass
09	2452	MCS0	22.89	22.89	22.95	23.06	28.97	<30	Pass

Note: Maximum Power Output Value (dBm) = $10 \cdot \text{LOG} (\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)})$

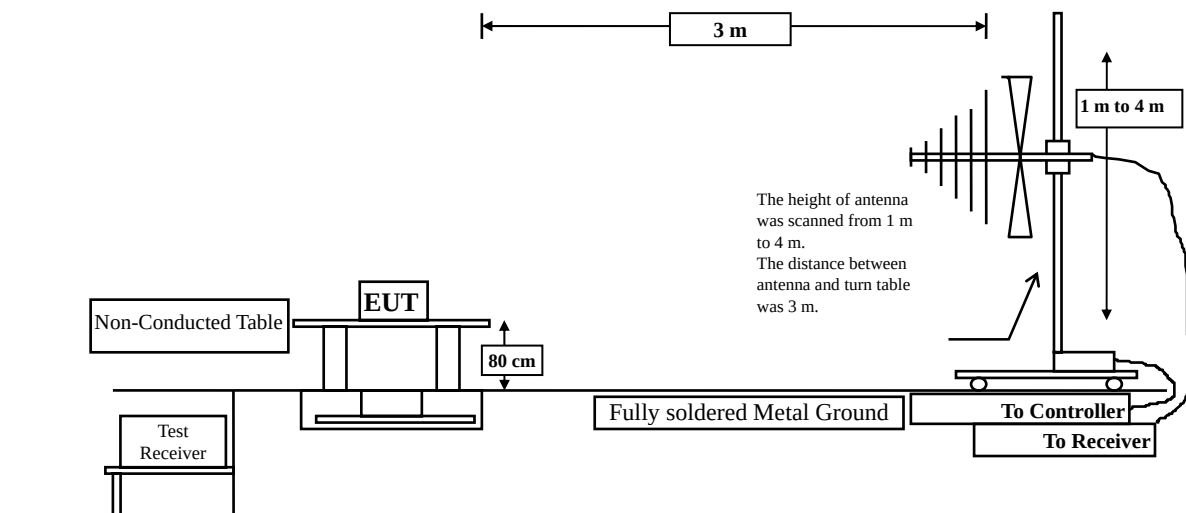
4. Radiated Emission

4.1. Test Setup

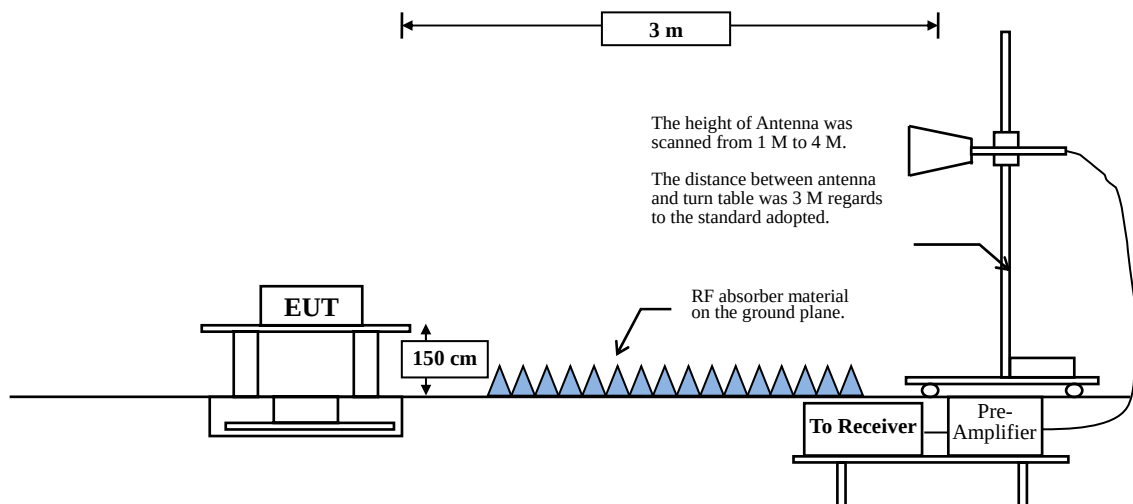
Radiated Emission Under 30 MHz



Radiated Emission Below 1 GHz



Radiated Emission Above 1 GHz



4.2. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks:

1. RF Voltage (dBμV) = 20 log RF Voltage (μV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1 GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30 MHz setting on the field strength meter is 9 kHz and 30 MHz~1 GHz is 120 kHz and above 1 GHz is 1 MHz.

Radiated emission measurements below 30 MHz are made using Loop Antenna and 30 MHz~1 GHz are made using broadband Bilog antenna and above 1 GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The measurement frequency range from 9 kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 - RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1 MHz.

VBW = 10 Hz, when duty cycle $\geq 98\%$

$VBW \geq 1/T$, when duty cycle $< 98\%$

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

CDD:

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	92.27	17.3000	58	100
802.11g	93.46	1.4300	699	1000
802.11ax-20 MHz	93.14	5.4300	184	200
802.11ax-40 MHz	93.12	5.4100	185	200

Note: Duty Cycle Refer to Section 9.

Beamforming:

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11ax-20 MHz	92.07	6.7300	149	200
802.11ax-40 MHz	93.69	6.8300	146	200

Note: Duty Cycle Refer to Section 9.

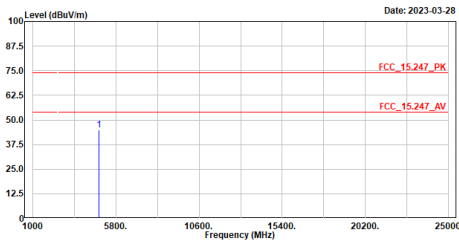
4.4. Test Result of Radiated Emission

CDD

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_b_2412MHz
TEST BY :Sam

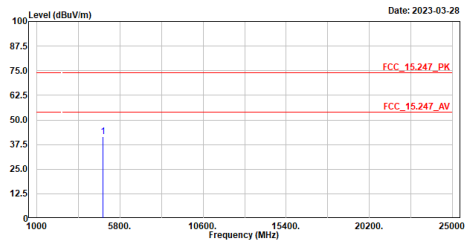
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_b_2412MHz
TEST BY :Sam

Date: 2023-03-28



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	44.95	74.00	-29.05	58.47	-13.52	Peak

Date: 2023-03-28



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	41.65	74.00	-32.35	55.17	-13.52	Peak

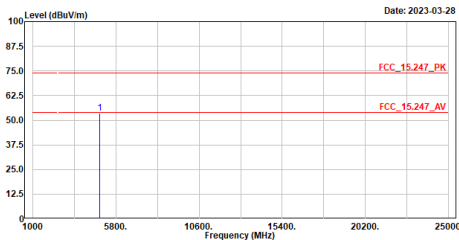
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_b_2437MHz
TEST BY :Sam

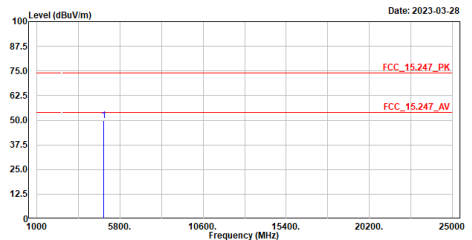
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_b_2437MHz
TEST BY :Sam

Date: 2023-03-28



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	53.56	74.00	-20.44	67.15	-13.59	Peak

Date: 2023-03-28

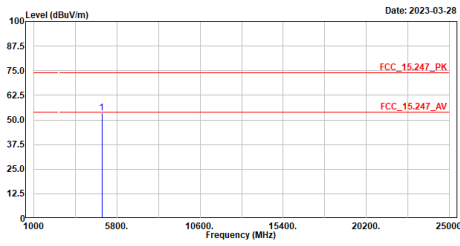


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	49.84	74.00	-24.16	63.43	-13.59	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_b_2462MHz
TEST BY :Sam

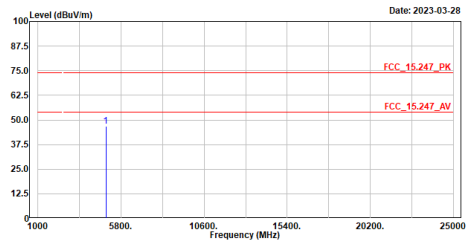


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	53.77	74.00	-20.23	67.32	-13.55	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_b_2462MHz
TEST BY :Sam

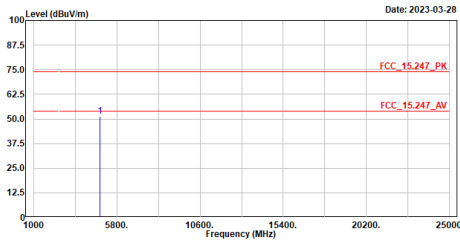


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	46.96	74.00	-27.04	60.51	-13.55	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_g_2412MHz
TEST BY :Sam

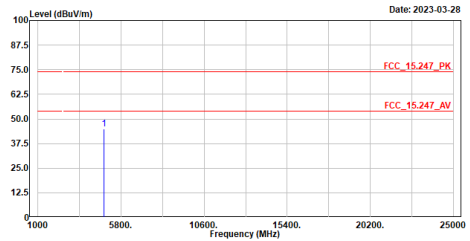


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	51.42	74.00	-22.58	64.94	-13.52	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_g_2412MHz
TEST BY :Sam

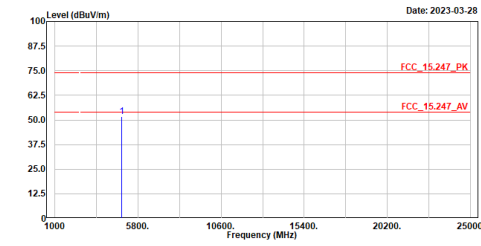


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	45.00	74.00	-29.00	58.52	-13.52	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_g_2437MHz
TEST BY :Sam

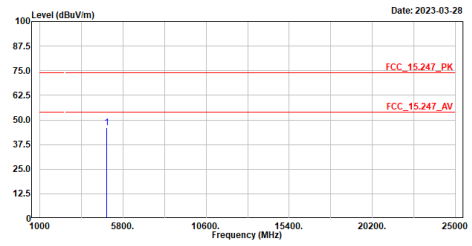


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	51.74	74.00	-22.26	65.33	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_g_2437MHz
TEST BY :Sam

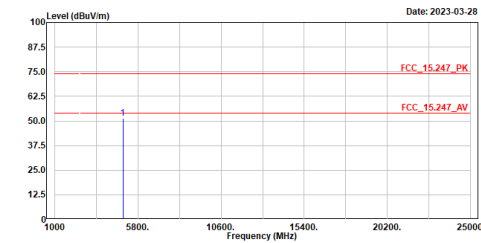


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	46.21	74.00	-27.79	59.80	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_g_2462MHz
TEST BY :Sam

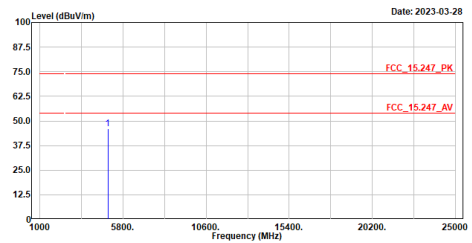


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	51.30	74.00	-22.70	64.85	-13.55	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_g_2462MHz
TEST BY :Sam

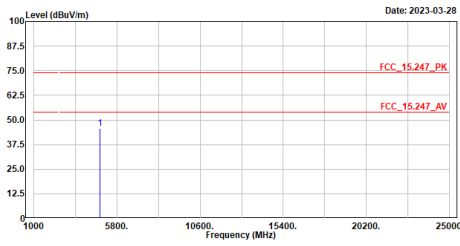


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	45.97	74.00	-28.03	59.52	-13.55	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2412MHz
TEST BY :Sam

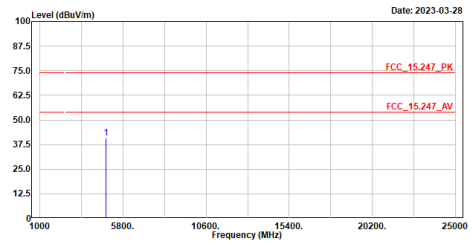


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	45.67	74.00	-28.33	59.19	-13.52	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2412MHz
TEST BY :Sam

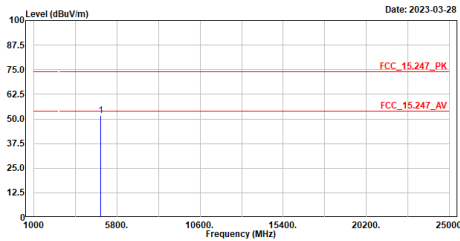


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	40.66	74.00	-33.34	54.18	-13.52	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2437MHz
TEST BY :Sam

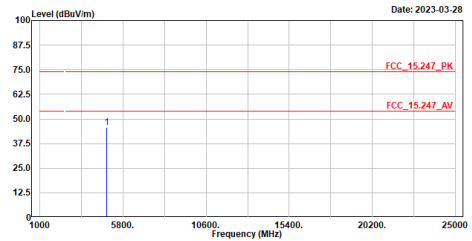


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	51.78	74.00	-22.22	65.37	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2437MHz
TEST BY :Sam

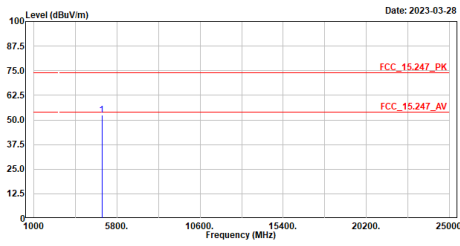


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	45.81	74.00	-28.19	59.40	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

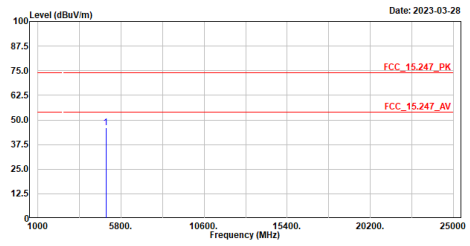
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2462MHz
TEST BY :Sam



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

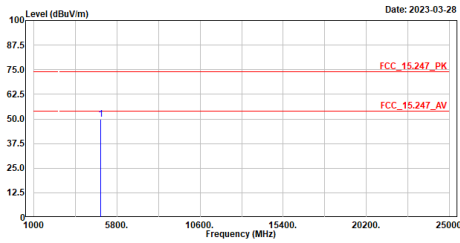
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2462MHz
TEST BY :Sam



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

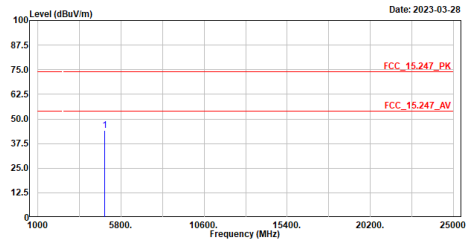
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2422MHz
TEST BY :Sam



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

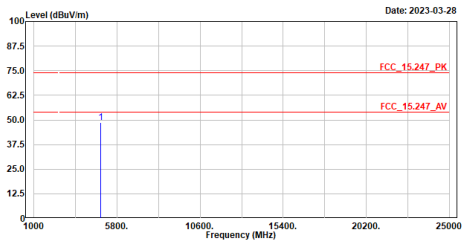
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2422MHz
TEST BY :Sam



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2437MHz
TEST BY :Sam

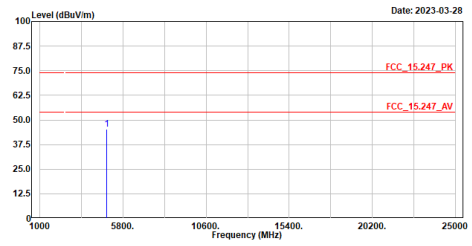


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	48.54	74.00	-25.46	62.13	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2437MHz
TEST BY :Sam

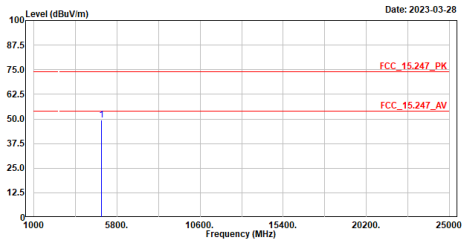


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	45.22	74.00	-28.78	58.81	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2452MHz
TEST BY :Sam

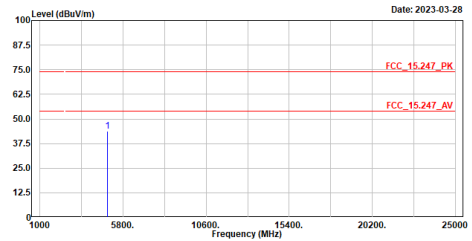


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4904.000	49.41	74.00	-24.59	63.03	-13.62	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

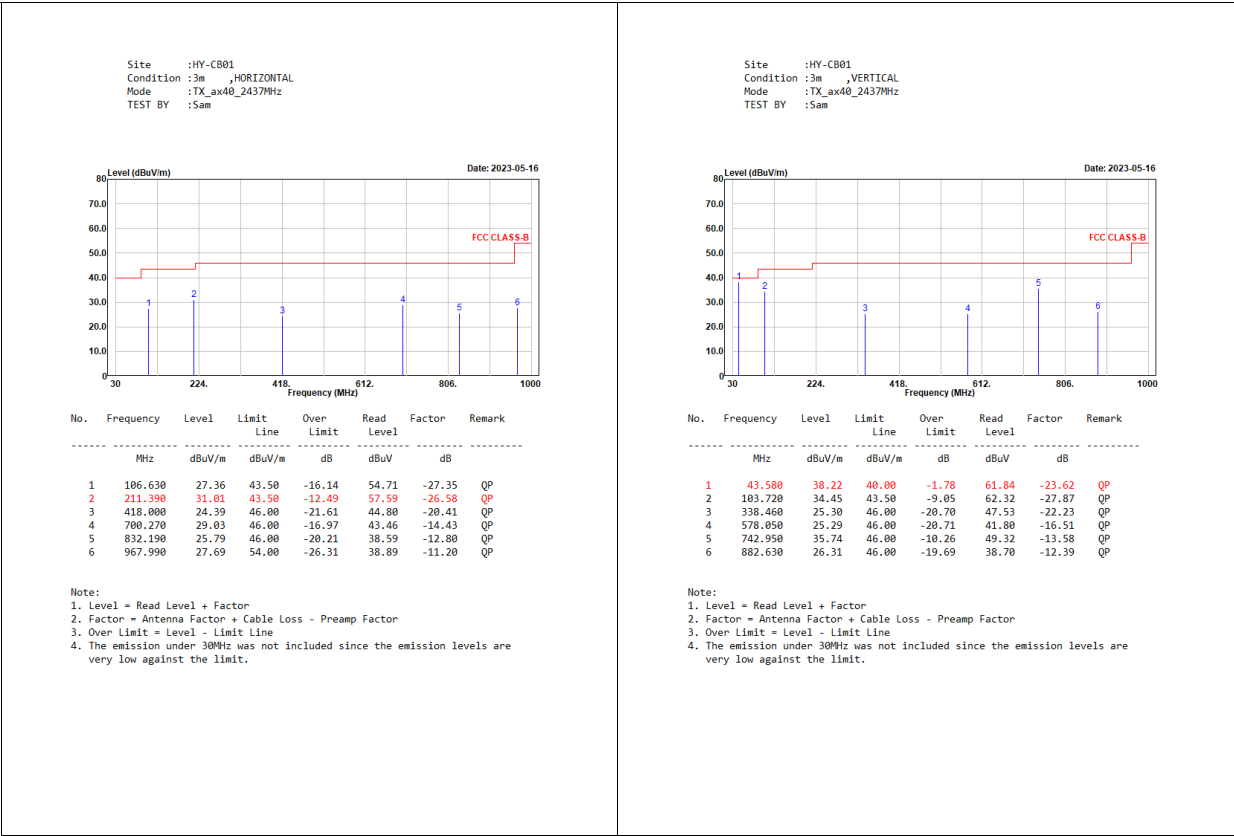
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2452MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4904.000	43.78	74.00	-30.22	57.40	-13.62	Peak

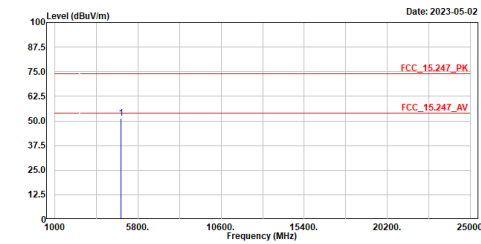
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



Beamforming

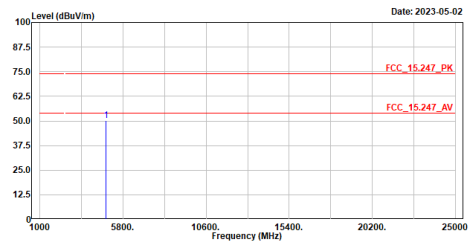
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	51.38	74.00	-22.62	64.93	-13.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

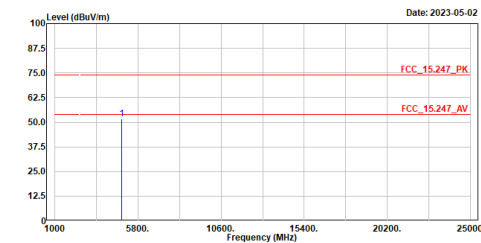
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	50.24	74.00	-23.76	63.79	-13.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

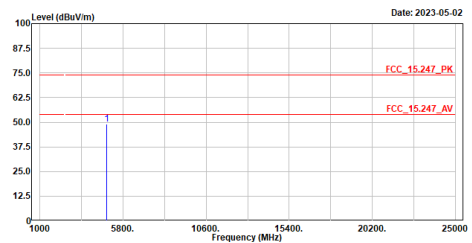
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	51.52	74.00	-22.48	65.10	-13.58	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2437MHz
TEST BY :Sam

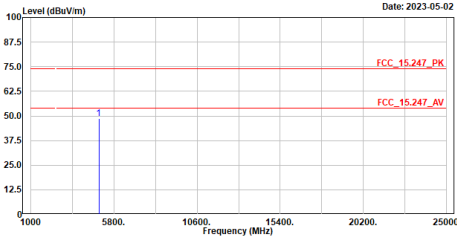


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	49.19	74.00	-24.81	62.77	-13.58	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_2462MHz
TEST BY :Sam

Date: 2023-05-02



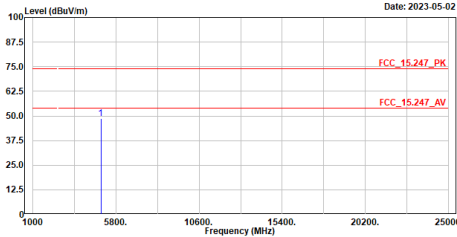
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	48.61	74.00	-25.39	62.14	-13.53	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_2462MHz
TEST BY :Sam

Date: 2023-05-02



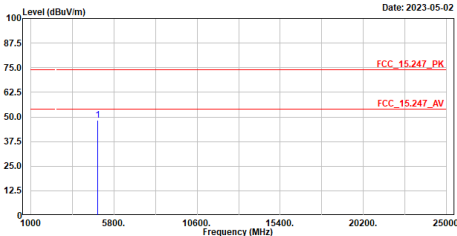
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4924.000	48.54	74.00	-25.46	62.10	-13.56	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2422MHz
TEST BY :Sam

Date: 2023-05-02



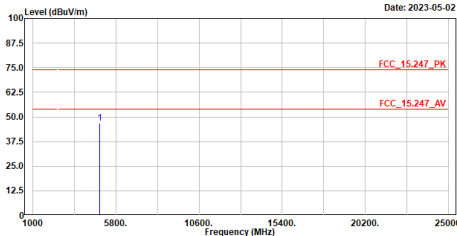
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4844.000	48.32	74.00	-25.68	61.84	-13.52	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2422MHz
TEST BY :Sam

Date: 2023-05-02



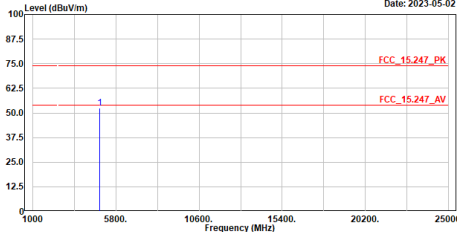
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4844.000	46.78	74.00	-27.22	60.31	-13.53	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2437MHz
TEST BY :Sam

Date: 2023-05-02



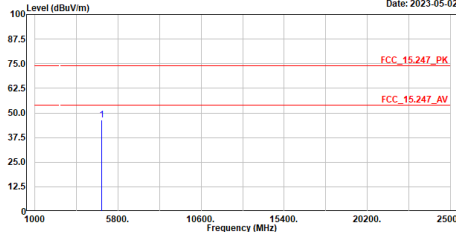
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	52.55	74.00	-21.45	66.14	-13.59	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2437MHz
TEST BY :Sam

Date: 2023-05-02



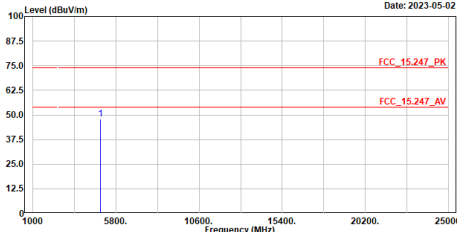
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	46.30	74.00	-27.70	59.91	-13.61	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2452MHz
TEST BY :Sam

Date: 2023-05-02



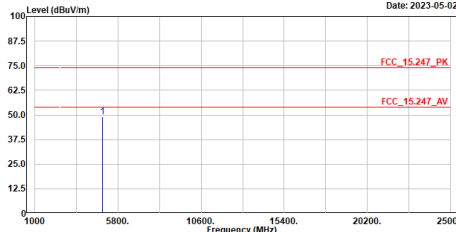
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4904.000	47.78	74.00	-26.22	61.38	-13.60	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2452MHz
TEST BY :Sam

Date: 2023-05-02



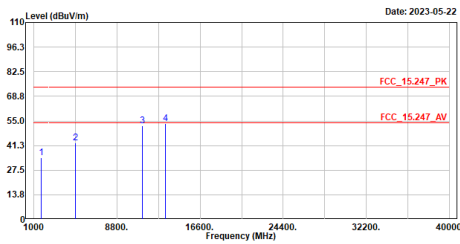
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4904.000	49.17	74.00	-24.83	62.79	-13.62	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Co-location

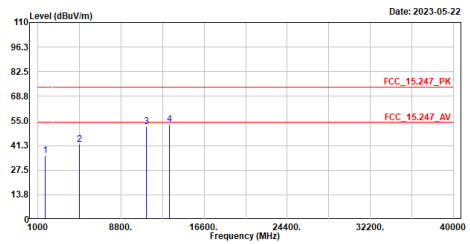
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+5GHR B5
TEST BY :Sam



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1673.000	34.29	74.00	-39.71	57.40	-23.11	Peak
2	4924.000	42.66	74.00	-31.34	56.21	-13.55	Peak
3	11160.000	52.35	74.00	-21.65	60.40	-8.05	Peak
4	13330.000	53.67	74.00	-20.33	58.21	-4.54	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

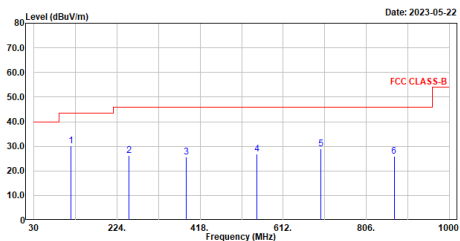
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+5GHR B5
TEST BY :Sam



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1673.000	35.83	74.00	-38.17	58.94	-23.11	Peak
2	4924.000	41.98	74.00	-32.02	55.53	-13.55	Peak
3	11160.000	52.03	74.00	-21.97	60.08	-8.05	Peak
4	13330.000	53.09	74.00	-20.91	57.63	-4.54	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

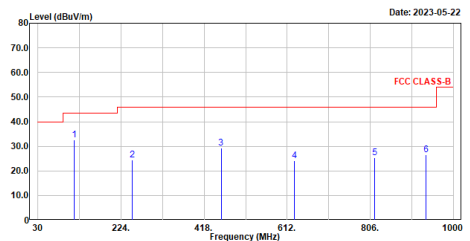
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+5GHR B5
TEST BY :Sam



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	116.330	30.26	43.50	-13.24	56.62	-26.36	QP
2	252.130	26.29	46.00	-19.71	51.34	-25.05	QP
3	385.020	25.76	46.00	-20.24	46.89	-21.13	QP
4	558.890	26.90	46.00	-19.10	44.34	-17.44	QP
5	700.270	29.00	46.00	-17.00	43.43	-14.43	QP
6	870.990	26.11	46.00	-19.89	38.61	-12.50	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

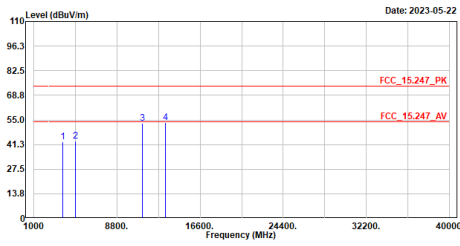
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+5GHR B5
TEST BY :Sam



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	115.360	32.67	43.50	-10.83	59.12	-26.45	QP
2	250.190	24.55	46.00	-21.45	49.63	-25.08	QP
3	457.770	29.40	46.00	-16.60	48.47	-19.07	QP
4	629.460	24.25	46.00	-21.75	39.75	-15.50	QP
5	816.670	25.33	46.00	-20.67	38.26	-12.93	QP
6	935.980	26.67	46.00	-19.33	38.30	-11.63	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

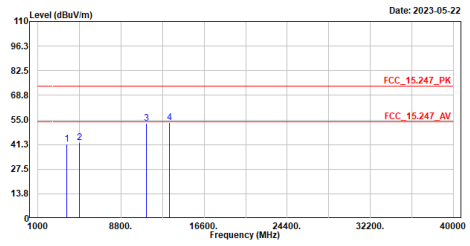
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+LTE B2
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	3720.000	42.84	74.00	-31.16	58.83	-15.99	Peak
2	4924.000	43.15	74.00	-30.85	56.70	-13.55	Peak
3	11160.000	53.10	74.00	-20.90	61.15	-8.05	Peak
4	13330.000	53.41	74.00	-20.59	57.95	-4.54	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

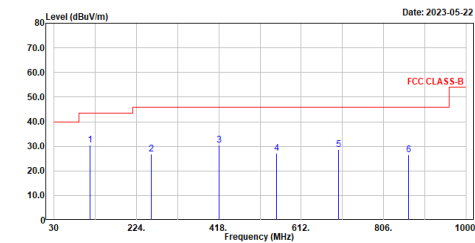
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+LTE B2
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	3720.000	41.35	74.00	-32.65	57.34	-15.99	Peak
2	4924.000	42.47	74.00	-31.53	56.02	-13.55	Peak
3	11160.000	52.93	74.00	-21.07	60.98	-8.05	Peak
4	13330.000	53.57	74.00	-20.43	58.11	-4.54	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

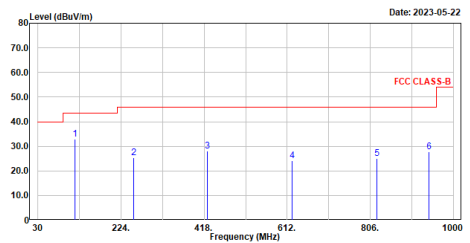
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+LTE B2
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	115.360	30.55	43.50	-12.95	57.00	-26.45	QP
2	258.920	26.93	46.00	-19.07	51.88	-24.95	QP
3	418.000	30.55	46.00	-15.45	50.96	-20.41	QP
4	554.770	27.21	46.00	-18.79	44.63	-17.42	QP
5	700.270	28.54	46.00	-17.46	42.97	-14.43	QP
6	864.200	26.65	46.00	-19.35	39.17	-12.52	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2462M+11ax20_5580M+11ax160_6665M+LTE B2
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	116.330	32.81	43.50	-10.69	59.17	-26.36	QP
2	254.070	25.23	46.00	-20.77	50.24	-25.01	QP
3	425.760	28.18	46.00	-17.82	48.33	-20.15	QP
4	623.640	24.21	46.00	-21.79	39.90	-15.69	QP
5	821.520	24.91	46.00	-21.09	37.76	-12.85	QP
6	943.740	27.85	46.00	-18.15	39.32	-11.47	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

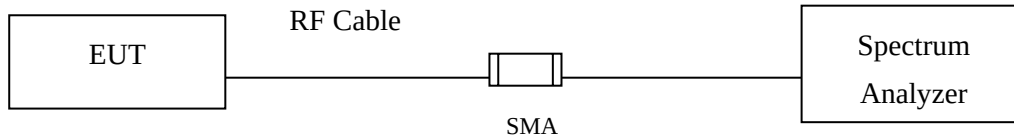




5. RF Antenna Conducted Test

5.1. Test Setup

RF antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

5.3. Test Procedure

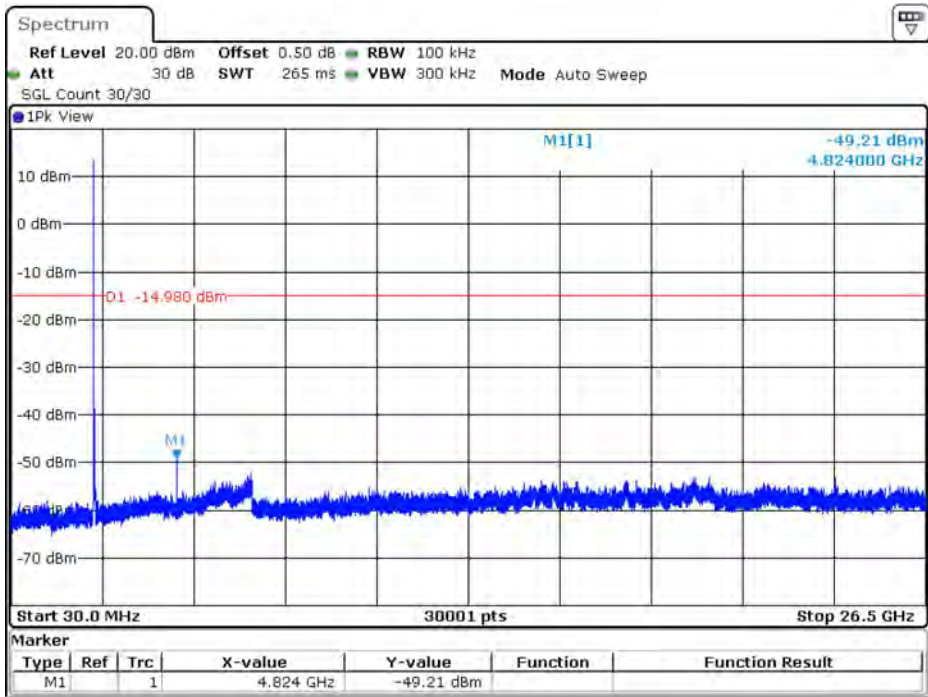
The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Result of RF antenna conducted test

Product : Internet Gateway
Test Item : RF antenna conducted test
Test Mode : Transmit (802.11b)-CDD
Test Date : 2023/03/28

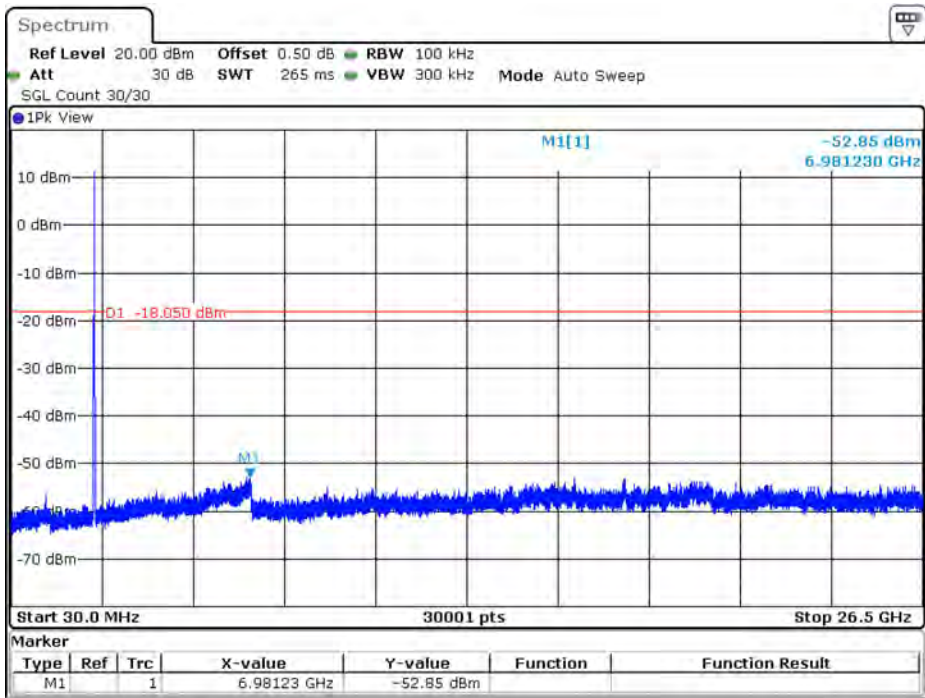
Channel 01 (2412 MHz) (Chain B)



Date: 28.MAR.2023 17:39:20

Product : Internet Gateway
Test Item : RF Antenna Conducted Spurious
Test Mode : Transmit (802.11g)-CDD
Test Date : 2023/03/28

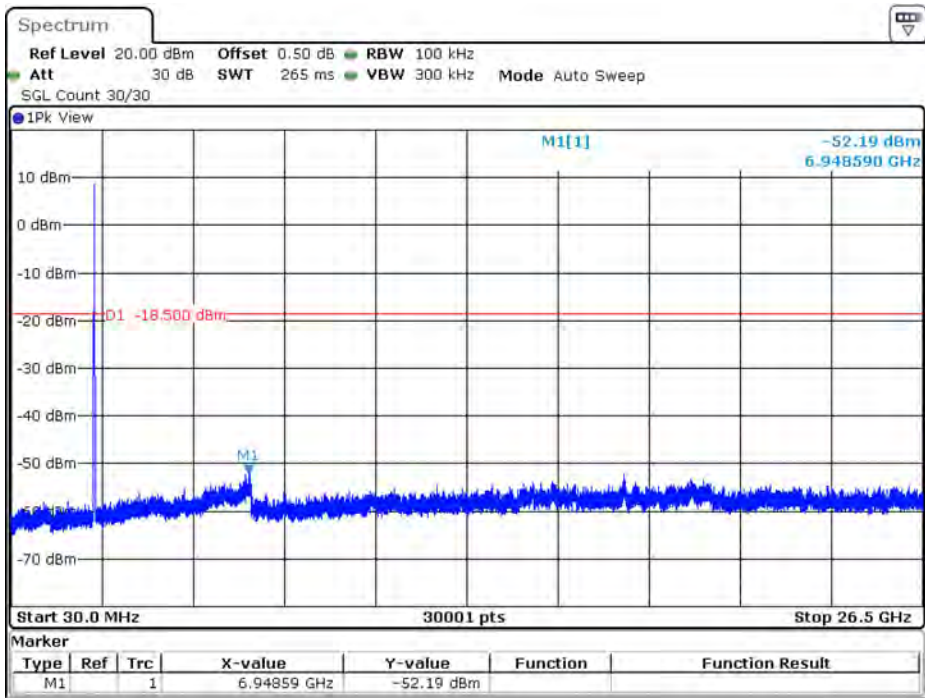
Channel 06 (2437 MHz) (Chain B)



Date: 28.MAR.2023 19:19:48

Product : Internet Gateway
Test Item : RF Antenna Conducted Spurious
Test Mode : Transmit (802.11ax-20 MHz)-CDD
Test Date : 2023/03/28

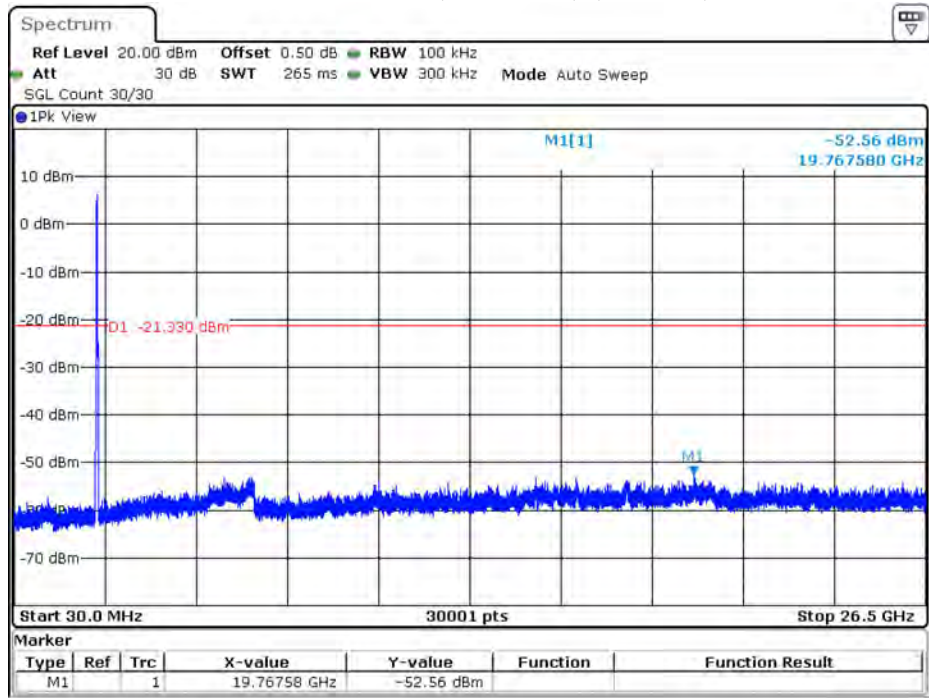
Channel 06 (2437 MHz) (Chain C)



Date: 28.MAR.2023 19:50:45

Product : Internet Gateway
Test Item : RF Antenna Conducted Spurious
Test Mode : Transmit (802.11ax-40 MHz)-CDD
Test Date : 2023/03/28

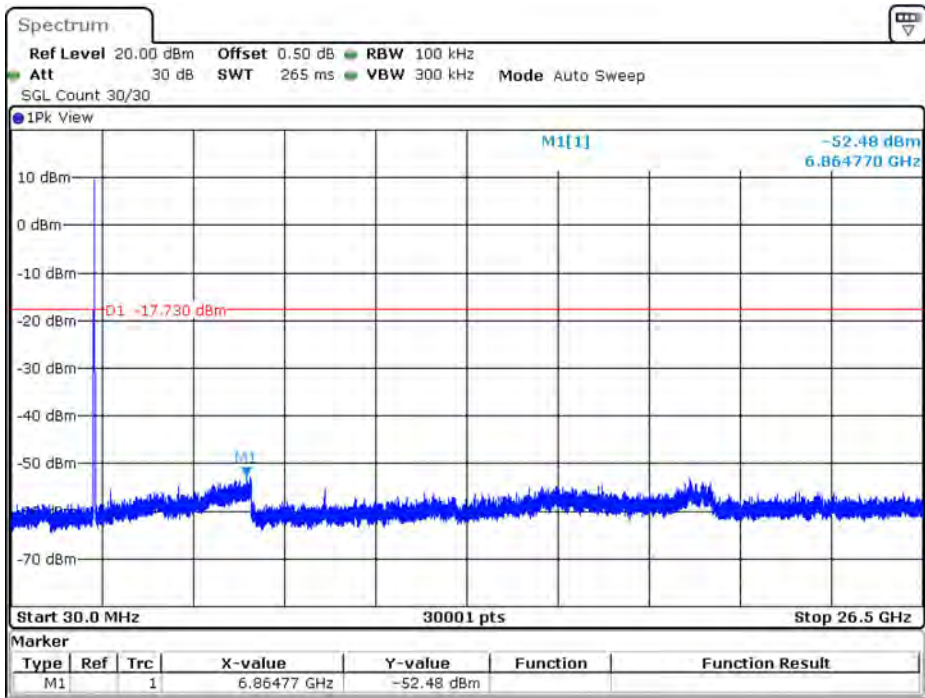
Channel 03 (2422 MHz) (Chain A)



Date: 28.MAR.2023 20:09:42

Product : Internet Gateway
Test Item : RF Antenna Conducted Spurious
Test Mode : Transmit (802.11ax-20 MHz)-Beamforming
Test Date : 2023/05/03

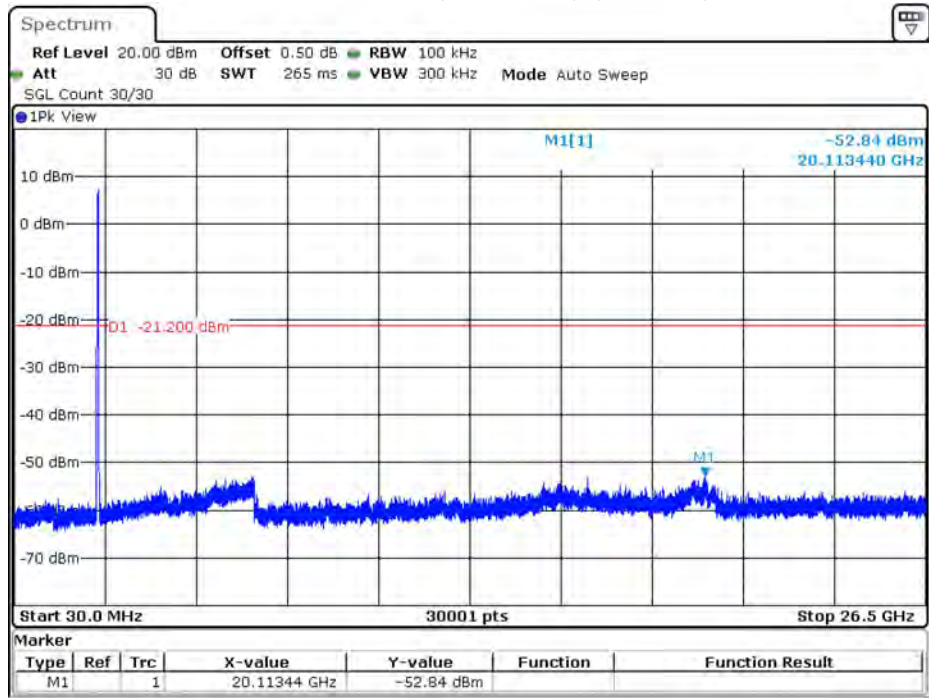
Channel 06 (2437 MHz) (Chain A)



Date: 3.MAY.2023 18:26:54

Product : Internet Gateway
Test Item : RF Antenna Conducted Spurious
Test Mode : Transmit (802.11ax-40 MHz)-Beamforming
Test Date : 2023/05/03

Channel 09 (2452 MHz) (Chain A)

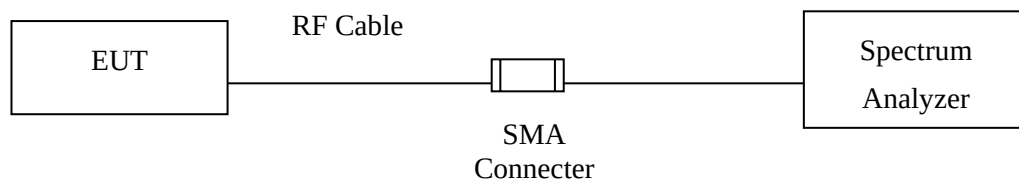


Date: 3.MAY.2023 19:28:44

6. Band Edge

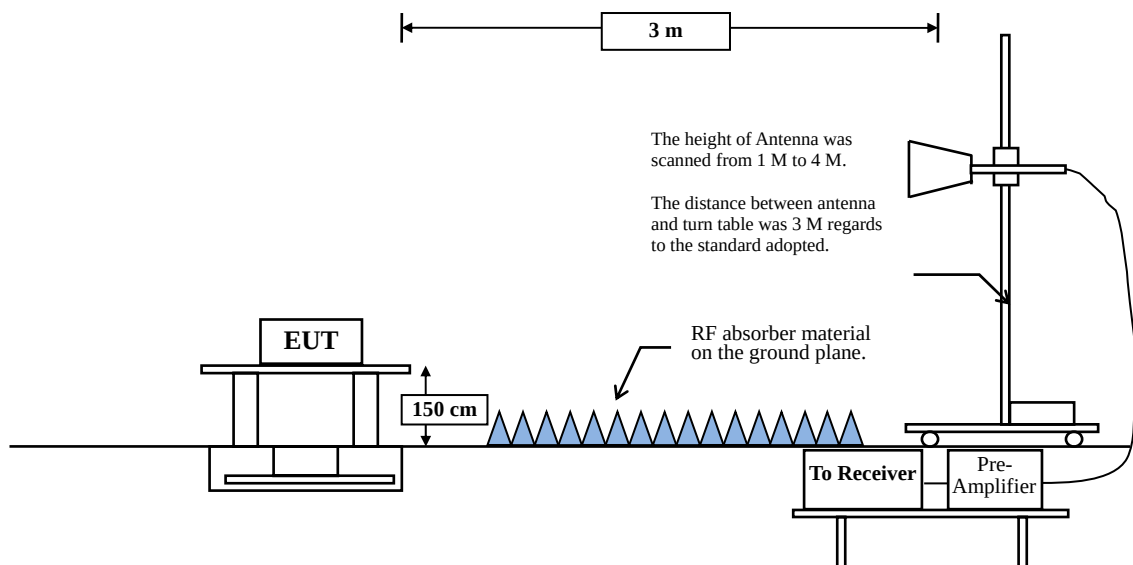
6.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement:

Above 1 GHz



6.2. Limits

According to FCC Section 15.247(d). In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

6.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 - RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1 MHz.

VBW = 10 Hz, when duty cycle $\geq 98 \%$

$VBW \geq 1/T$, when duty cycle $< 98 \%$

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

CDD:

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	92.27	17.3000	58	100
802.11g	93.46	1.4300	699	1000
802.11ax-20 MHz	93.14	5.4300	184	200
802.11ax-40 MHz	93.12	5.4100	185	200

Note: Duty Cycle Refer to Section 9.

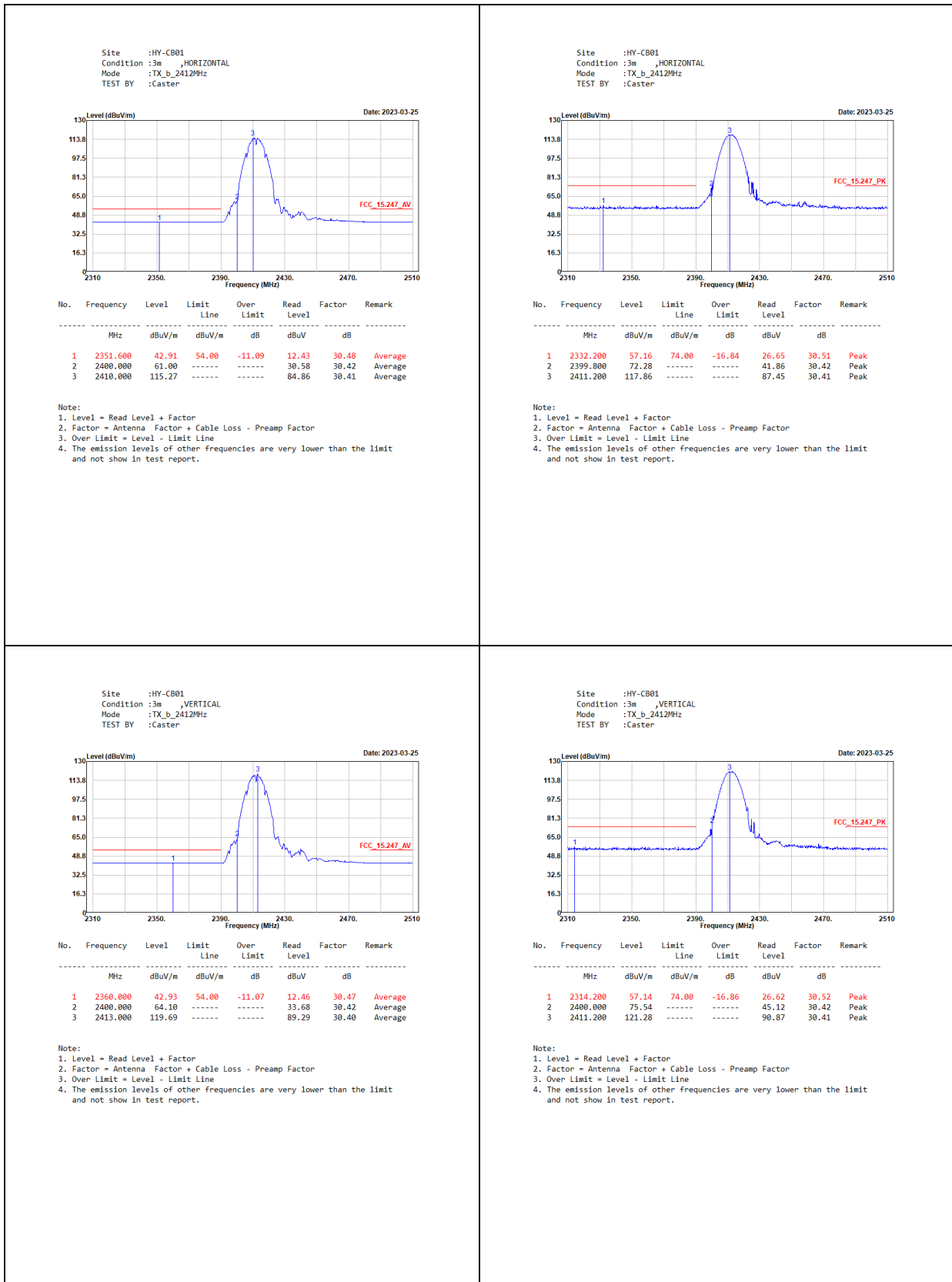
Beamforming:

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11ax-20 MHz	92.07	6.7300	149	200
802.11ax-40 MHz	93.69	6.8300	146	200

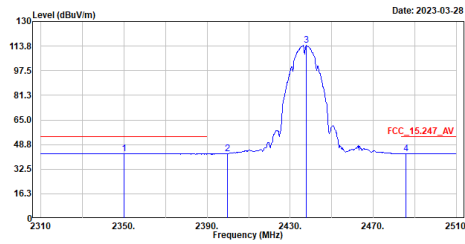
Note: Duty Cycle Refer to Section 9.

6.4. Test Result of Band Edge

CDD



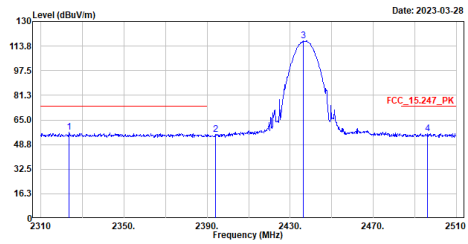
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_b_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2350.000	42.72	54.00	-11.28	12.24	30.48	Average
2	2399.000	42.88	-----	-----	12.46	30.42	Average
3	2437.800	114.40	-----	-----	84.03	30.37	Average
4	2485.000	42.74	54.00	-11.26	12.35	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

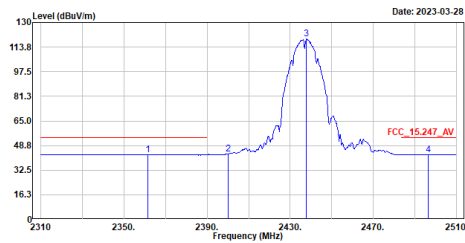
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_b_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2323.600	56.87	74.00	-17.13	26.36	30.51	Peak
2	2394.000	55.61	-----	-----	25.18	30.43	Peak
3	2436.200	117.16	-----	-----	86.78	30.38	Peak
4	2496.000	56.05	74.00	-17.95	25.65	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

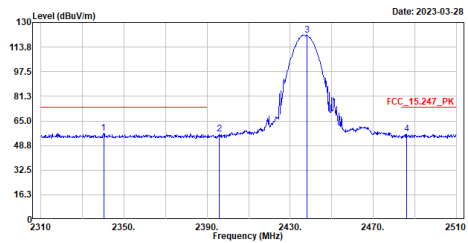
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_b_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2361.400	42.70	54.00	-11.30	12.23	30.47	Average
2	2400.000	43.20	-----	-----	12.78	30.42	Average
3	2437.800	119.07	-----	-----	88.70	30.37	Average
4	2496.400	42.85	54.00	-11.15	12.45	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

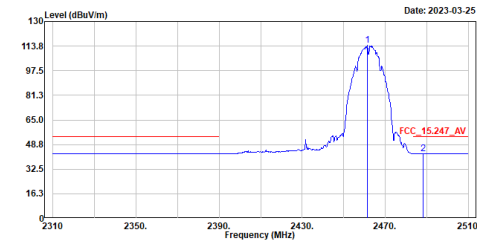
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_b_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2340.200	56.73	74.00	-17.27	26.24	30.49	Peak
2	2396.000	56.25	-----	-----	25.82	30.43	Peak
3	2438.000	121.78	-----	-----	91.41	30.37	Peak
4	2486.000	56.32	74.00	-17.68	25.93	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_b_2462MHz
TEST BY :Caster

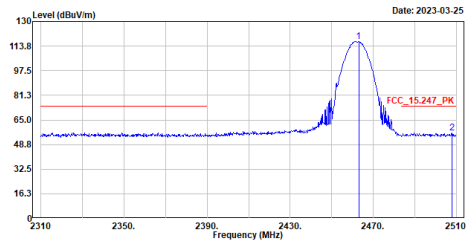


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2461.400	114.14	-----	-----	83.77	30.37	Average
2	2488.400	42.87	54.00	-11.13	12.48	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_b_2462MHz
TEST BY :Caster

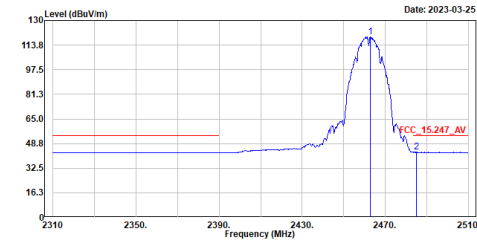


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2463.000	116.99	-----	-----	86.62	30.37	Peak
2	2507.800	56.24	74.00	-17.76	25.84	30.40	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_b_2462MHz
TEST BY :Caster

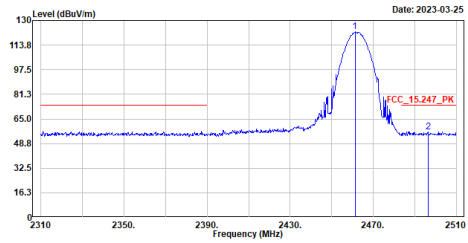


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2462.800	119.36	-----	-----	88.99	30.37	Average
2	2485.000	43.04	54.00	-10.96	12.65	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_b_2462MHz
TEST BY :Caster

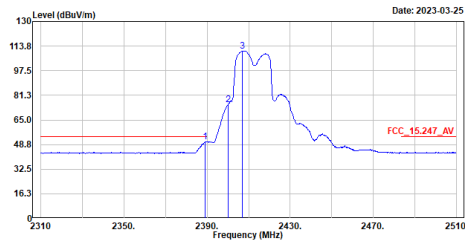


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2461.200	122.44	-----	-----	92.07	30.37	Peak
2	2496.400	56.60	74.00	-17.40	26.20	30.40	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

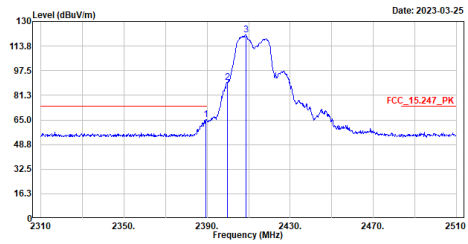
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2412MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.200	50.63	54.00	-3.37	20.20	30.43	Average
2	2400.000	75.23	-----	-----	44.81	30.42	Average
3	2406.800	110.57	-----	-----	80.15	30.42	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

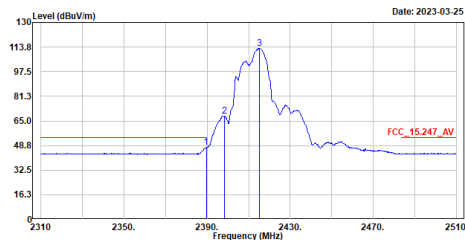
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2412MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.400	65.44	74.00	-8.56	35.01	30.43	Peak
2	2399.800	89.98	-----	-----	59.56	30.42	Peak
3	2408.600	121.10	-----	-----	90.69	30.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

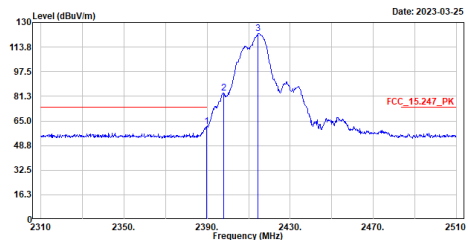
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2412MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.600	47.37	54.00	-6.63	16.94	30.43	Average
2	2398.400	68.21	-----	-----	37.79	30.42	Average
3	2415.200	113.04	-----	-----	82.63	30.41	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

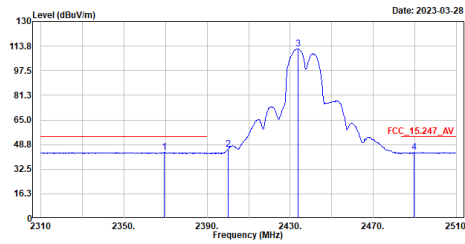
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2412MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.800	61.23	74.00	-12.77	30.80	30.43	Peak
2	2398.000	83.31	-----	-----	52.89	30.42	Peak
3	2414.600	122.64	-----	-----	92.24	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

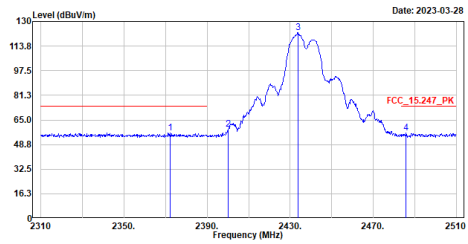
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2369.400	43.52	54.00	-10.48	13.06	30.46	Average
2	2400.000	45.49	-----	-----	15.07	30.42	Average
3	2433.800	112.06	-----	-----	81.68	30.38	Average
4	2489.600	43.47	54.00	-10.53	13.08	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

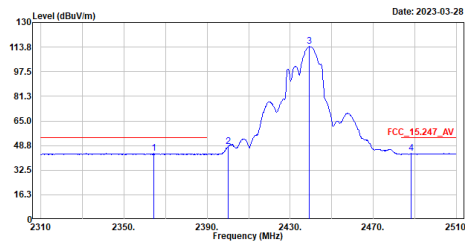
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2372.200	56.49	74.00	-17.51	26.03	30.46	Peak
2	2400.000	58.85	-----	-----	28.43	30.42	Peak
3	2433.800	122.46	-----	-----	92.08	30.38	Peak
4	2485.800	56.24	74.00	-17.76	25.85	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

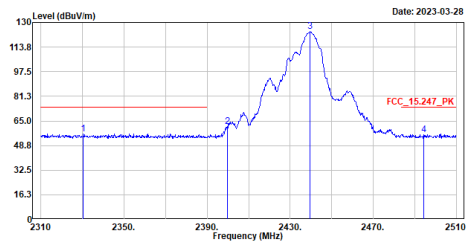
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2364.200	43.54	54.00	-10.46	13.08	30.46	Average
2	2400.000	47.94	-----	-----	17.52	30.42	Average
3	2439.200	114.06	-----	-----	83.68	30.38	Average
4	2488.200	43.48	54.00	-10.52	13.09	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

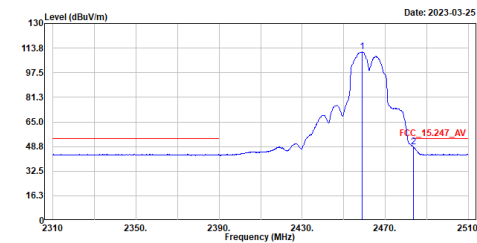
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2330.400	56.65	74.00	-17.35	26.14	30.51	Peak
2	2399.800	61.36	-----	-----	30.94	30.42	Peak
3	2439.600	123.87	-----	-----	93.49	30.38	Peak
4	2494.400	56.15	74.00	-17.85	25.76	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2462MHz
TEST BY :Caster

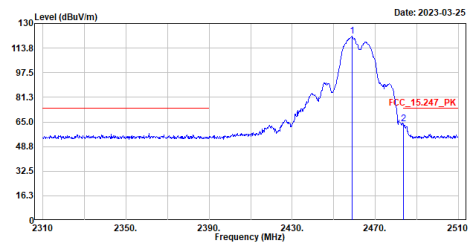


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2458.800	111.35	-----	-----	88.98	30.37	Average
2	2483.600	48.65	54.00	-5.35	18.26	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_g_2462MHz
TEST BY :Caster

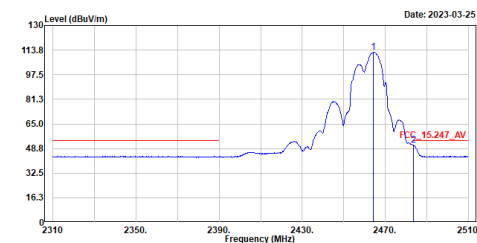


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2458.800	121.60	-----	-----	91.23	30.37	Peak
2	2483.600	63.84	74.00	-10.16	33.45	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2462MHz
TEST BY :Caster

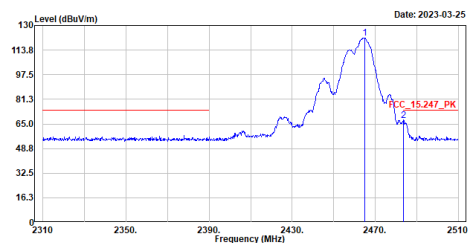


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2464.400	112.55	-----	-----	82.18	30.37	Average
2	2483.600	51.18	54.00	-2.82	20.79	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_g_2462MHz
TEST BY :Caster

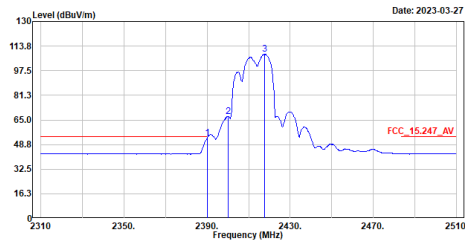


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2465.000	121.87	-----	-----	91.58	30.37	Peak
2	2483.600	67.38	74.00	-6.62	36.99	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

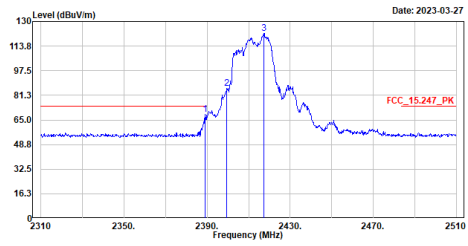
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	53.16	54.00	-0.84	22.73	30.43	Average
2	2400.000	67.40	-----	-----	36.98	30.42	Average
3	2417.600	108.50	-----	-----	78.10	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

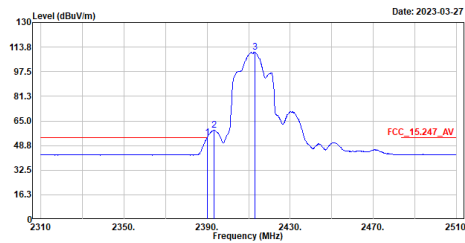
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.200	68.61	74.00	-5.39	38.18	30.43	Peak
2	2399.600	85.84	-----	-----	55.42	30.42	Peak
3	2417.400	122.05	-----	-----	91.64	30.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

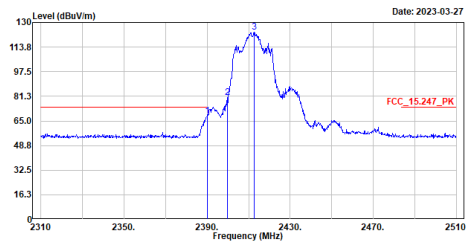
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	53.87	54.00	-0.13	23.44	30.43	Average
2	2393.400	58.93	-----	-----	28.50	30.43	Average
3	2413.000	110.36	-----	-----	79.96	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

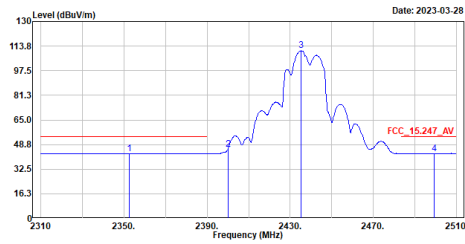
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	68.37	74.00	-5.63	37.94	30.43	Peak
2	2399.800	80.51	-----	-----	50.09	30.42	Peak
3	2412.800	123.86	-----	-----	93.46	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

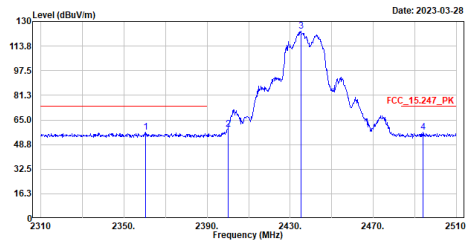
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2352.600	42.84	54.00	-11.16	12.37	30.47	Average
2	2400.000	45.80	-----	-----	15.38	30.42	Average
3	2435.200	110.66	-----	-----	80.28	30.38	Average
4	2499.400	42.87	54.00	-11.13	12.47	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

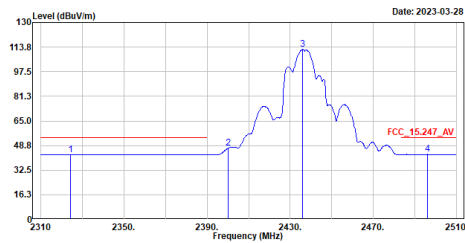
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2360.400	56.87	74.00	-17.13	26.48	30.47	Peak
2	2400.000	59.05	-----	-----	28.63	30.42	Peak
3	2435.200	123.52	-----	-----	93.14	30.38	Peak
4	2494.000	56.93	74.00	-17.07	26.54	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

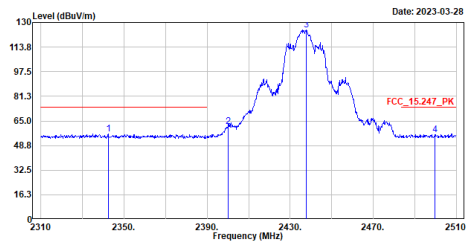
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2324.200	42.89	54.00	-11.11	12.38	30.51	Average
2	2400.000	46.94	-----	-----	16.52	30.42	Average
3	2436.000	112.37	-----	-----	81.99	30.38	Average
4	2496.000	42.97	54.00	-11.03	12.57	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

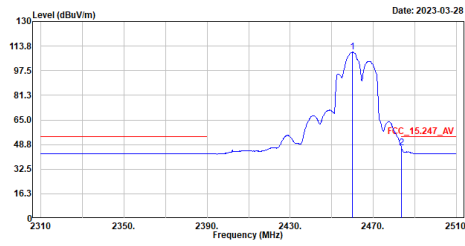
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2342.400	56.41	74.00	-17.59	25.91	30.50	Peak
2	2400.000	61.45	-----	-----	31.03	30.42	Peak
3	2437.600	125.14	-----	-----	94.77	30.37	Peak
4	2499.800	56.05	74.00	-17.95	25.65	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2462MHz
TEST BY :Sam

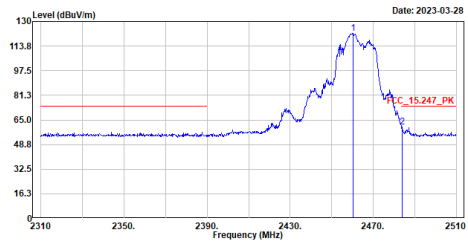


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2460.000	109.70	-----	-----	79.33	30.37	Average
2	2483.600	46.57	54.00	-7.43	16.18	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2462MHz
TEST BY :Sam

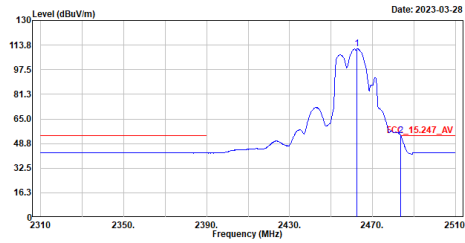


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2460.200	122.30	-----	-----	91.93	30.37	Peak
2	2484.000	60.15	74.00	-13.85	29.76	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2462MHz
TEST BY :Sam

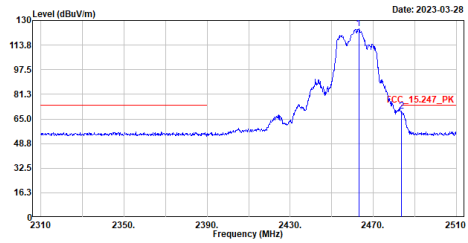


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2462.000	111.26	-----	-----	80.89	30.37	Average
2	2483.600	53.83	54.00	-0.17	23.44	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2462MHz
TEST BY :Sam

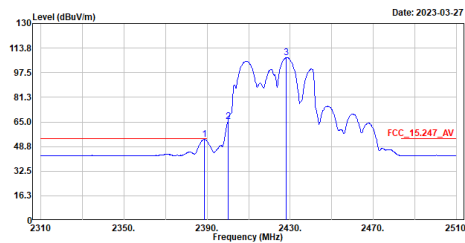


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2463.000	124.45	-----	-----	94.08	30.37	Peak
2	2483.600	70.14	74.00	-3.86	39.75	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

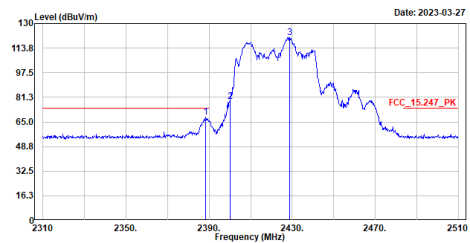
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2422MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.800	53.40	54.00	-0.60	22.97	30.43	Average
2	2400.000	65.40	-----	-----	34.98	30.42	Average
3	2428.200	107.43	-----	-----	77.04	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

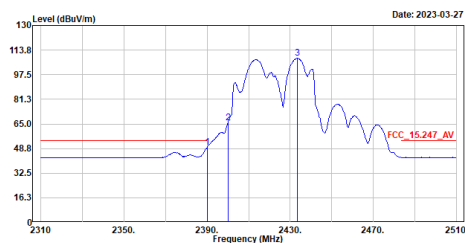
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2422MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.400	68.04	74.00	-5.96	37.61	30.43	Peak
2	2400.000	78.59	-----	-----	48.17	30.42	Peak
3	2428.800	120.76	-----	-----	90.37	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

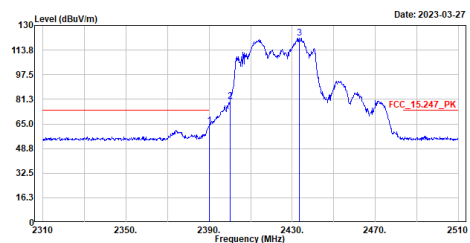
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2422MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	49.46	54.00	-4.54	19.03	30.43	Average
2	2400.000	65.68	-----	-----	35.26	30.42	Average
3	2433.600	108.32	-----	-----	77.94	30.38	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

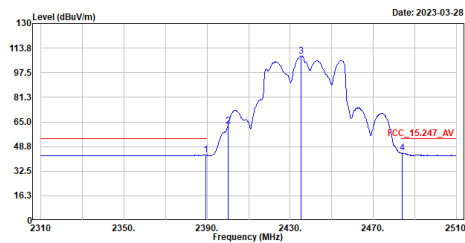
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2422MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	63.85	74.00	-10.15	33.42	30.43	Peak
2	2400.000	79.80	-----	-----	49.38	30.42	Peak
3	2433.400	121.90	-----	-----	91.52	30.38	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

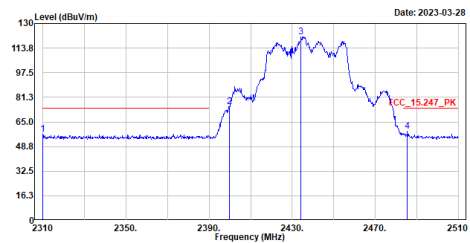
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2389.400	43.19	54.00	-10.81	12.76	30.43	Average
2	2400.000	62.19	-----	-----	31.77	30.42	Average
3	2435.400	108.38	-----	-----	78.00	30.38	Average
4	2483.800	44.42	54.00	-9.58	14.03	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

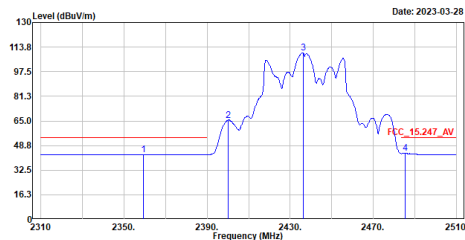
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2310.000	57.00	74.00	-17.00	26.47	30.53	Peak
2	2399.800	75.22	-----	-----	44.80	30.42	Peak
3	2434.200	121.13	-----	-----	90.75	30.38	Peak
4	2485.400	58.67	74.00	-15.33	28.28	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

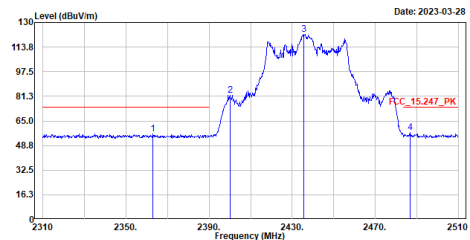
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2359.400	42.90	54.00	-11.10	12.43	30.47	Average
2	2400.000	65.45	-----	-----	35.03	30.42	Average
3	2436.200	110.02	-----	-----	79.64	30.38	Average
4	2485.200	43.67	54.00	-10.33	13.28	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

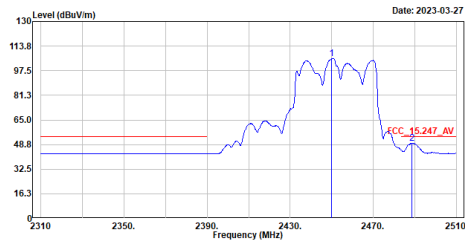
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2362.800	56.52	74.00	-17.48	26.06	30.46	Peak
2	2400.000	81.77	-----	-----	51.35	30.42	Peak
3	2435.600	122.25	-----	-----	91.87	30.38	Peak
4	2486.800	57.36	74.00	-16.64	26.97	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2452MHz
TEST BY :Sam

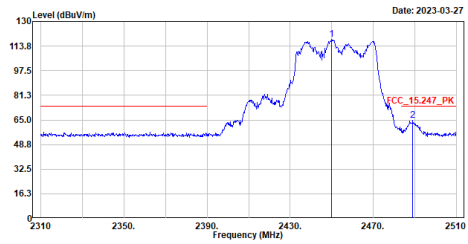


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2450.000	105.53	-----	-----	75.17	30.36	Average
2	2488.600	49.58	54.00	-4.42	19.19	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2452MHz
TEST BY :Sam

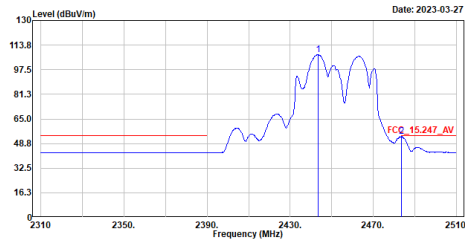


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2450.000	118.07	-----	-----	87.71	30.36	Peak
2	2489.000	64.74	74.00	-9.26	34.35	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2452MHz
TEST BY :Sam

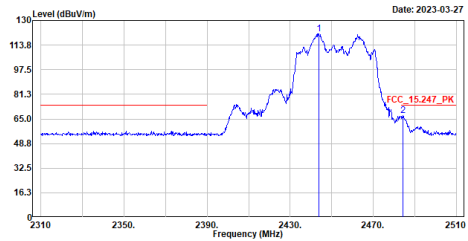


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2443.600	107.34	-----	-----	76.97	30.37	Average
2	2483.600	53.28	54.00	-0.72	22.89	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2452MHz
TEST BY :Sam



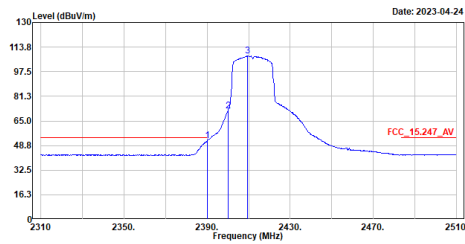
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	2443.800	121.35	-----	-----	90.98	30.37	Peak
2	2484.400	67.14	74.00	-6.86	36.75	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Beamforming

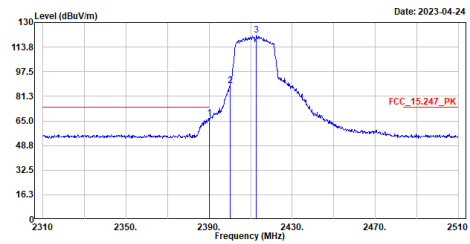
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2398.000	51.79	54.00	-2.21	21.36	30.43	Average
2	2400.000	71.62	-----	-----	41.20	30.42	Average
3	2409.600	107.85	-----	-----	77.44	30.41	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

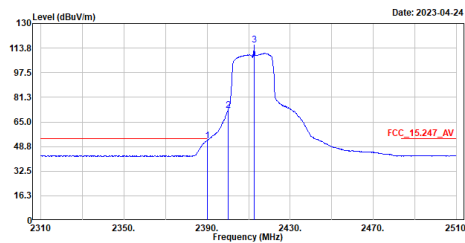
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2390.000	66.94	74.00	-7.06	36.51	30.43	Peak
2	2400.000	88.34	-----	-----	57.92	30.42	Peak
3	2412.800	121.63	-----	-----	91.23	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

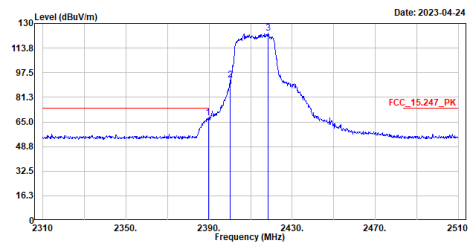
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2398.000	52.55	54.00	-1.45	22.12	30.43	Average
2	2400.000	72.56	-----	-----	42.14	30.42	Average
3	2412.600	115.91	-----	-----	85.51	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

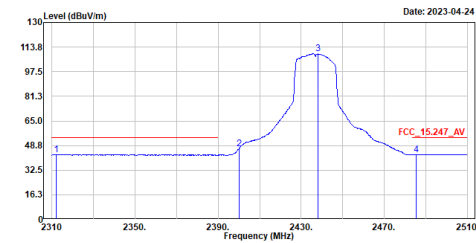
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2412MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.600	67.81	74.00	-6.19	37.38	30.43	Peak
2	2400.000	92.72	-----	-----	62.30	30.42	Peak
3	2418.400	123.50	-----	-----	93.10	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

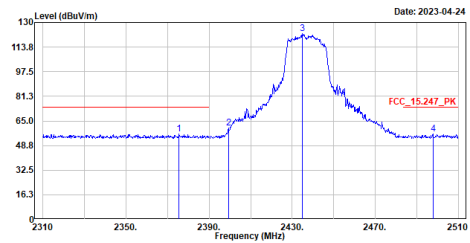
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2312.200	42.74	54.00	-11.26	12.21	30.53	Average
2	2400.000	46.62	-----	-----	16.20	30.42	Average
3	2438.000	109.26	-----	-----	78.89	30.37	Average
4	2485.200	42.74	54.00	-11.26	12.35	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

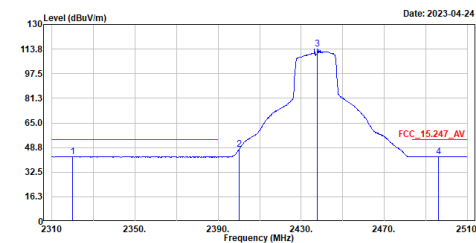
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2375.600	56.18	74.00	-17.82	25.73	30.45	Peak
2	2399.400	60.57	-----	-----	30.15	30.42	Peak
3	2435.000	122.69	-----	-----	92.31	30.38	Peak
4	2497.800	56.38	74.00	-17.62	25.98	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

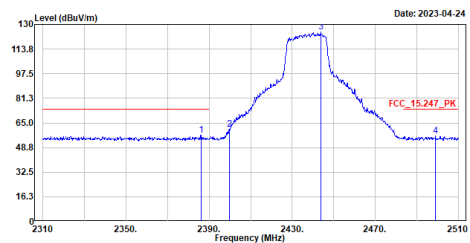
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2320.000	42.71	54.00	-11.29	12.19	30.52	Average
2	2400.000	47.36	-----	-----	16.94	30.42	Average
3	2437.000	114.02	-----	-----	83.65	30.37	Average
4	2496.200	42.78	54.00	-11.22	12.38	30.40	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

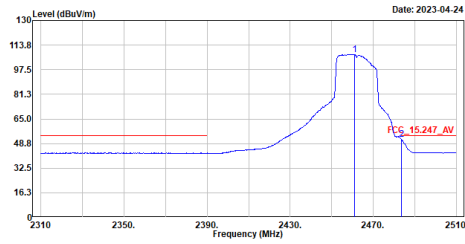
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2437MHz
TEST BY :Sam



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2386.200	56.83	74.00	-17.17	26.39	30.44	Peak
2	2399.800	60.71	-----	-----	30.29	30.42	Peak
3	2443.800	125.21	-----	-----	94.84	30.37	Peak
4	2499.000	56.22	74.00	-17.78	25.82	30.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2462MHz
TEST BY :Sam

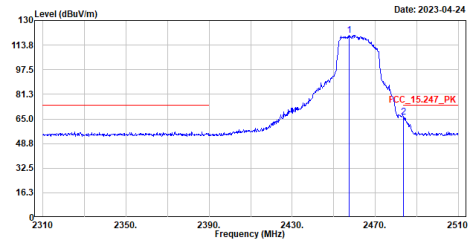


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2461.000	107.52	-----	-----	77.15	30.37	Average
2	2483.600	51.52	54.00	-2.48	21.13	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_2462MHz
TEST BY :Sam

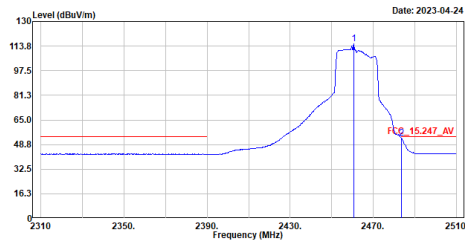


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2457.400	120.39	-----	-----	90.02	30.37	Peak
2	2483.600	66.07	74.00	-7.93	35.68	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2462MHz
TEST BY :Sam

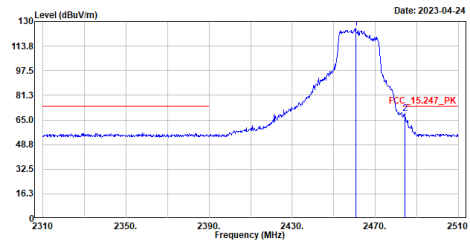


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2460.800	115.35	-----	-----	84.98	30.37	Average
2	2483.600	52.88	54.00	-1.12	22.49	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_2462MHz
TEST BY :Sam

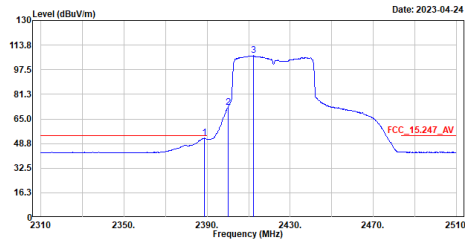


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2460.600	125.35	-----	-----	94.98	30.37	Peak
2	2484.200	69.03	74.00	-4.97	38.64	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2422MHz
TEST BY :Sam

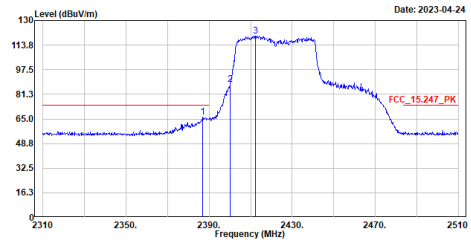


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.600	52.33	54.00	-1.67	21.90	30.43	Average
2	2400.000	72.51	-----	-----	42.09	30.42	Average
3	2412.200	106.73	-----	-----	76.32	30.41	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_2422MHz
TEST BY :Sam

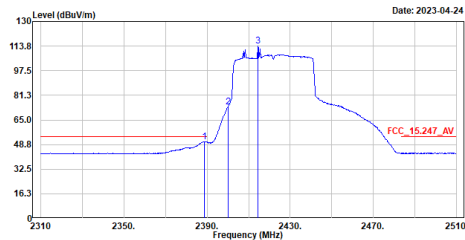


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2387.000	66.30	74.00	-7.70	35.86	30.44	Peak
2	2400.000	87.94	-----	-----	57.52	30.42	Peak
3	2412.400	119.79	-----	-----	89.38	30.41	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2422MHz
TEST BY :Sam

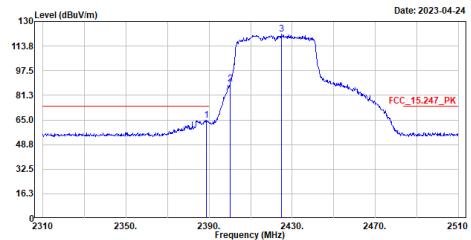


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.800	50.65	54.00	-3.35	20.22	30.43	Average
2	2400.000	73.51	-----	-----	43.09	30.42	Average
3	2414.600	113.92	-----	-----	83.52	30.40	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2422MHz
TEST BY :Sam

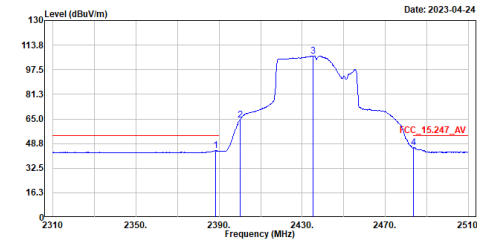


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.600	64.68	74.00	-9.32	34.25	30.43	Peak
2	2400.000	88.65	-----	-----	58.23	30.42	Peak
3	2424.800	121.80	-----	-----	91.41	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

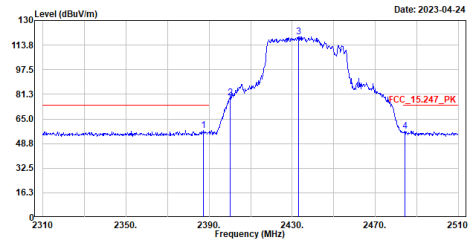
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2437MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.200	44.03	54.00	-9.97	13.60	30.43	Average
2	2400.000	64.23	-----	-----	33.81	30.42	Average
3	2435.400	106.53	-----	-----	76.15	30.38	Average
4	2483.600	46.32	54.00	-7.68	15.93	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

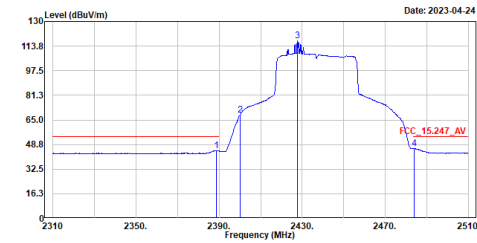
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2437MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2387.400	57.36	74.00	-16.64	26.92	30.44	Peak
2	2400.000	78.93	-----	-----	48.51	30.42	Peak
3	2433.000	119.20	-----	-----	88.82	30.38	Peak
4	2484.200	56.93	74.00	-17.07	26.54	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

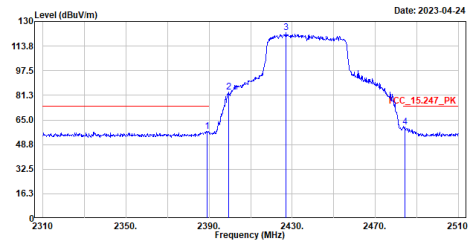
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2437MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2388.600	44.87	54.00	-9.13	14.44	30.43	Average
2	2400.000	68.03	-----	-----	37.61	30.42	Average
3	2427.600	117.14	-----	-----	86.75	30.39	Average
4	2483.800	46.15	54.00	-7.85	15.76	30.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

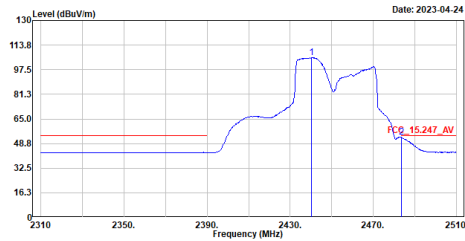
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_2437MHz
TEST BY :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2389.000	57.56	74.00	-16.44	27.13	30.43	Peak
2	2399.400	83.21	-----	-----	52.79	30.42	Peak
3	2427.000	122.67	-----	-----	92.27	30.40	Peak
4	2484.400	60.54	74.00	-13.46	30.15	30.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2452MHz
TEST BY :Caster

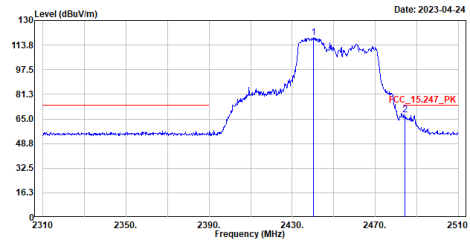


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2440.200	105.60	-----	-----	75.22	30.38	Average
2	2483.600	52.78	54.00	-1.22	22.39	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_2452MHz
TEST BY :Caster

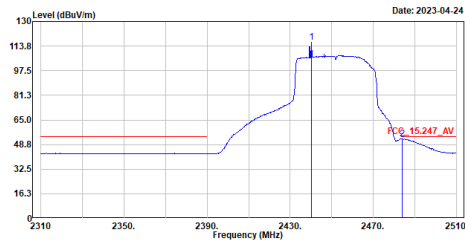


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2440.200	118.83	-----	-----	88.45	30.38	Peak
2	2484.200	67.86	74.00	-6.14	37.47	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2452MHz
TEST BY :Caster

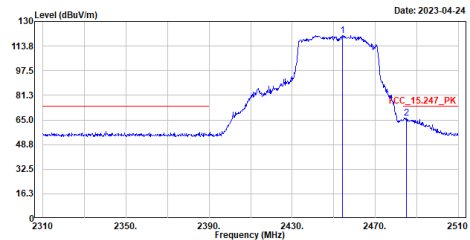


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2440.400	116.16	-----	-----	85.78	30.38	Average
2	2484.000	52.51	54.00	-1.49	22.12	30.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_2452MHz
TEST BY :Caster



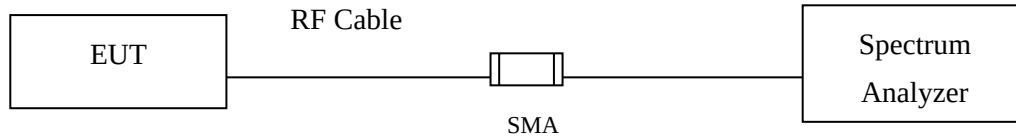
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	2454.200	120.89	-----	-----	90.52	30.37	Peak
2	2485.000	66.46	74.00	-7.54	36.07	30.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7. 6 dB Bandwidth

7.1. Test Setup



7.2. Limits

The minimum bandwidth shall be at least 500 kHz.

7.3. Test Procedure

The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of 6 dB Bandwidth

Product : Internet Gateway
Test Item : 6 dB Bandwidth Data
Test Mode : Transmit (802.11b)-CDD

Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	7073	>500	Pass
06	2437	7552	>500	Pass
11	2462	8032	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	7592	>500	Pass
06	2437	7073	>500	Pass
11	2462	7073	>500	Pass

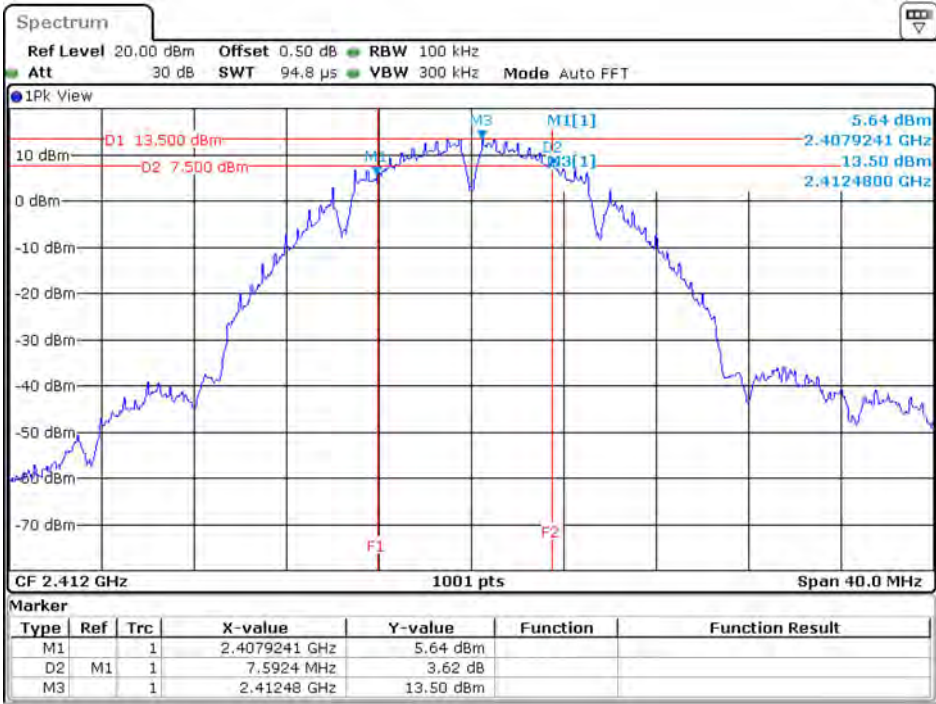
Chain C

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	7073	>500	Pass
06	2437	7033	>500	Pass
11	2462	7073	>500	Pass

Chain D

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	7273	>500	Pass
06	2437	7552	>500	Pass
11	2462	7073	>500	Pass

Figure Channel 01 (Chain B):



Date: 28.MAR.2023 17:38:05

Product : Internet Gateway
Test Item : 6 dB Bandwidth Data
Test Mode : Transmit (802.11g)-CDD

Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16264	>500	Pass
06	2437	16304	>500	Pass
11	2462	16344	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15904	>500	Pass
06	2437	16304	>500	Pass
11	2462	16264	>500	Pass

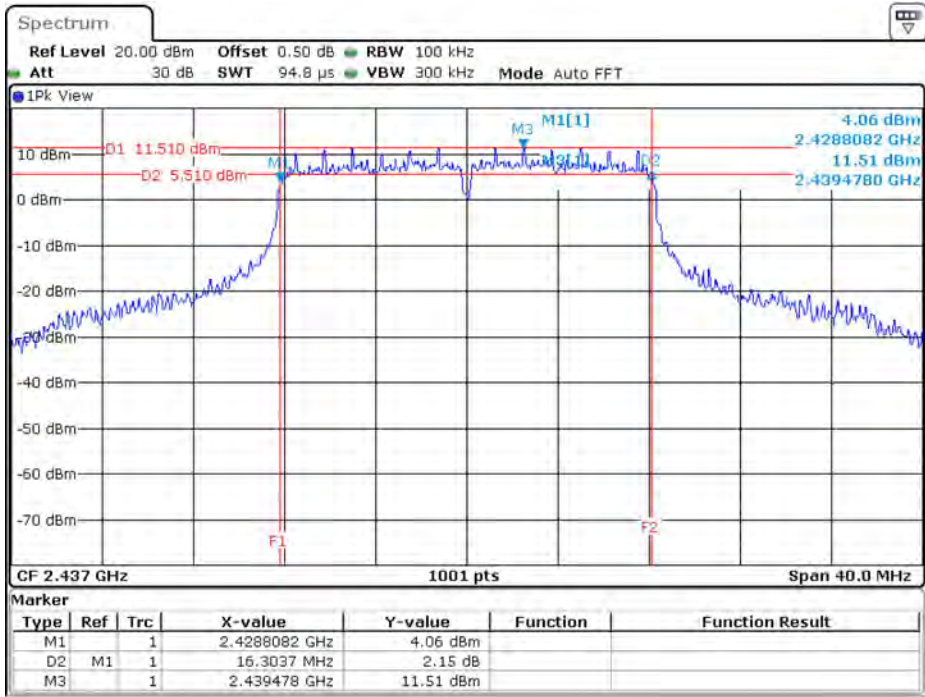
Chain C

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15904	>500	Pass
06	2437	15944	>500	Pass
11	2462	16304	>500	Pass

Chain D

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	15944	>500	Pass
06	2437	16304	>500	Pass
11	2462	16024	>500	Pass

Figure Channel 06 (Chain B):



Date: 28.MAR.2023 19:18:42

Product : Internet Gateway
 Test Item : 6 dB Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)-CDD

Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	18581	>500	Pass
06	2437	18741	>500	Pass
11	2462	18741	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	18502	>500	Pass
06	2437	18581	>500	Pass
11	2462	18941	>500	Pass

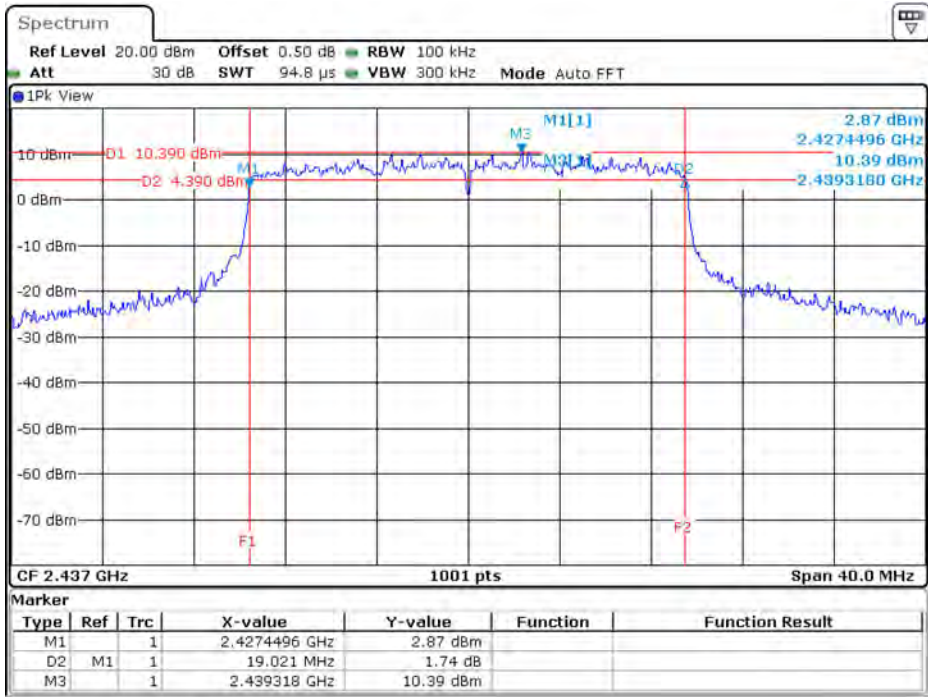
Chain C

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17942	>500	Pass
06	2437	19021	>500	Pass
11	2462	18661	>500	Pass

Chain D

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	18502	>500	Pass
06	2437	18302	>500	Pass
11	2462	18342	>500	Pass

Figure Channel 06 (Chain C):



Date: 28.MAR.2023 19:49:39

Product : Internet Gateway
Test Item : 6 dB Bandwidth Data
Test Mode : Transmit (802.11ax-40 MHz)-CDD

Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	37802	>500	Pass
06	2437	37483	>500	Pass
09	2452	37642	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	37483	>500	Pass
06	2437	37483	>500	Pass
09	2452	37403	>500	Pass

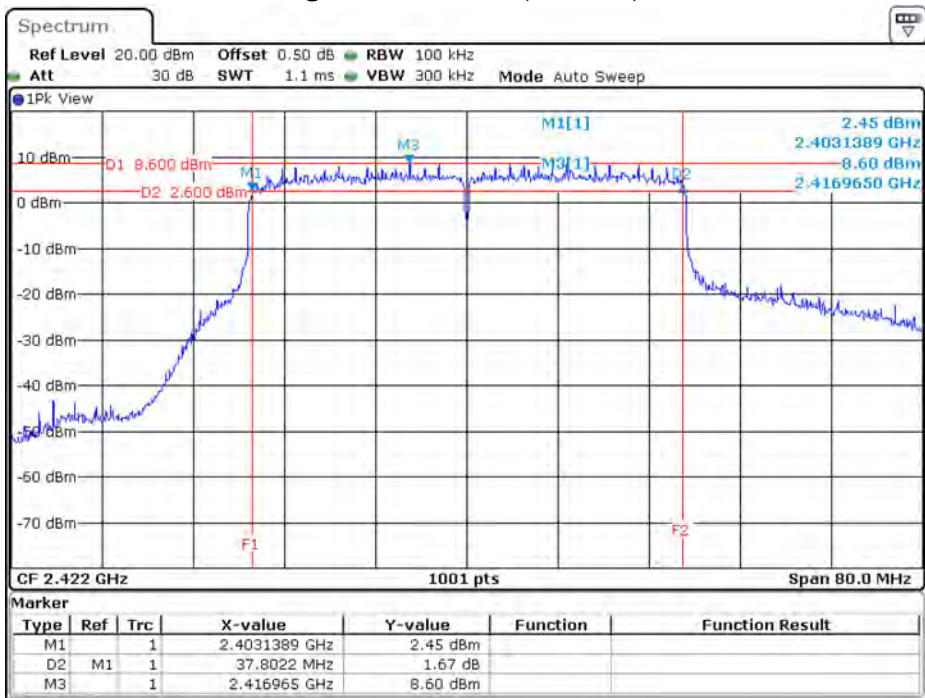
Chain C

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	37882	>500	Pass
06	2437	37722	>500	Pass
09	2452	37483	>500	Pass

Chain D

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	37882	>500	Pass
06	2437	37642	>500	Pass
09	2452	37642	>500	Pass

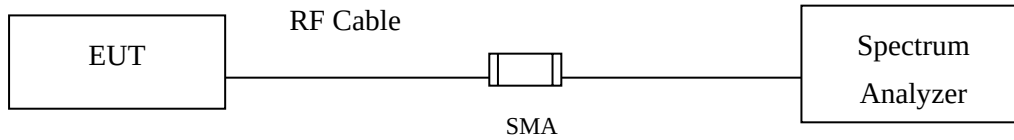
Figure Channel 03 (Chain A):



Date: 28.MAR.2023 20:08:25

8. Power Density

8.1. Test Setup



8.2. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8 dBm in any 3 kHz bandwidth.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The maximum power spectral density using C63.10 Section 11.10.2 Method PKPSD (peak PSD)

The maximum power density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

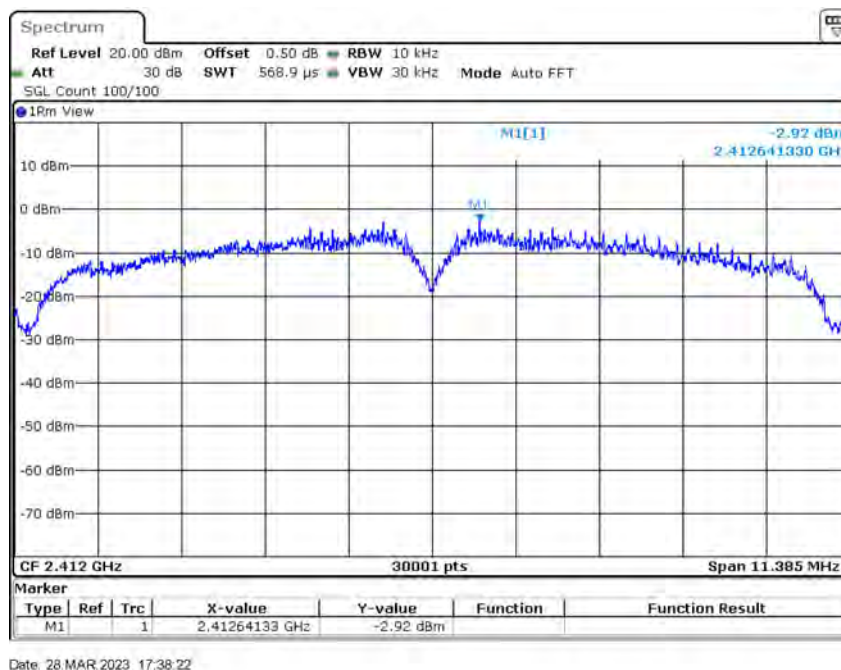
8.4. Test Result of Power Density

Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11b)-CDD

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	1	A	-4.850	1.338	3.57	8	Pass
			B	-2.920				
			C	-3.750				
			D	-3.850				
06	2437	1	A	-4.210	1.338	3.47	8	Pass
			B	-3.270				
			C	-3.970				
			D	-4.190				
11	2462	1	A	-3.580	1.338	3.73	8	Pass
			B	-3.130				
			C	-3.400				
			D	-4.510				

Note: Total PPSD/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor.}$

Figure Channel 01 (Chain B):

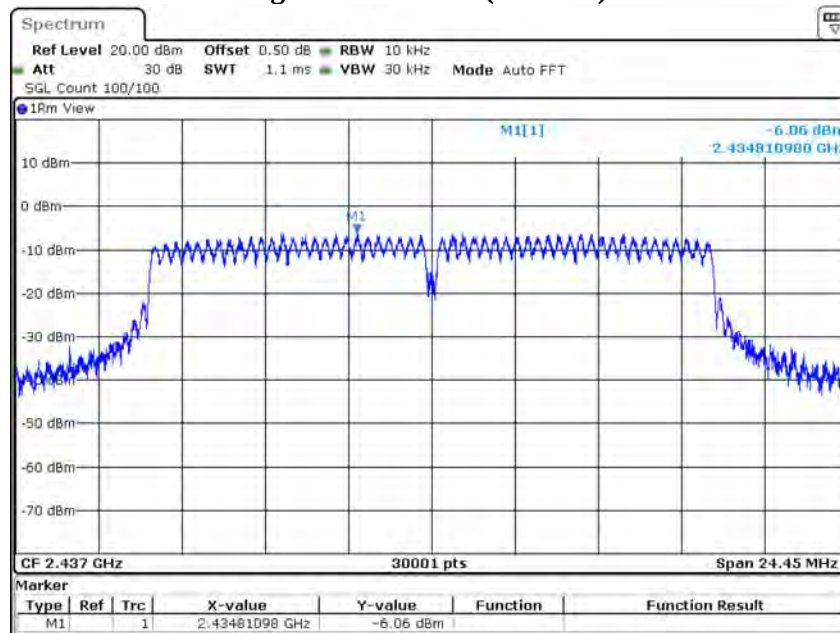


Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11g)-CDD

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	6	A	-6.330	0.324	-0.01	8	Pass
			B	-6.420				
			C	-6.340				
			D	-6.340				
06	2437	6	A	-6.390	0.324	0.06	8	Pass
			B	-6.060				
			C	-6.390				
			D	-6.310				
11	2462	6	A	-6.650	0.324	-0.23	8	Pass
			B	-6.580				
			C	-6.640				
			D	-6.420				

Note: Total PPSD/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor}$.

Figure Channel 06 (Chain B):



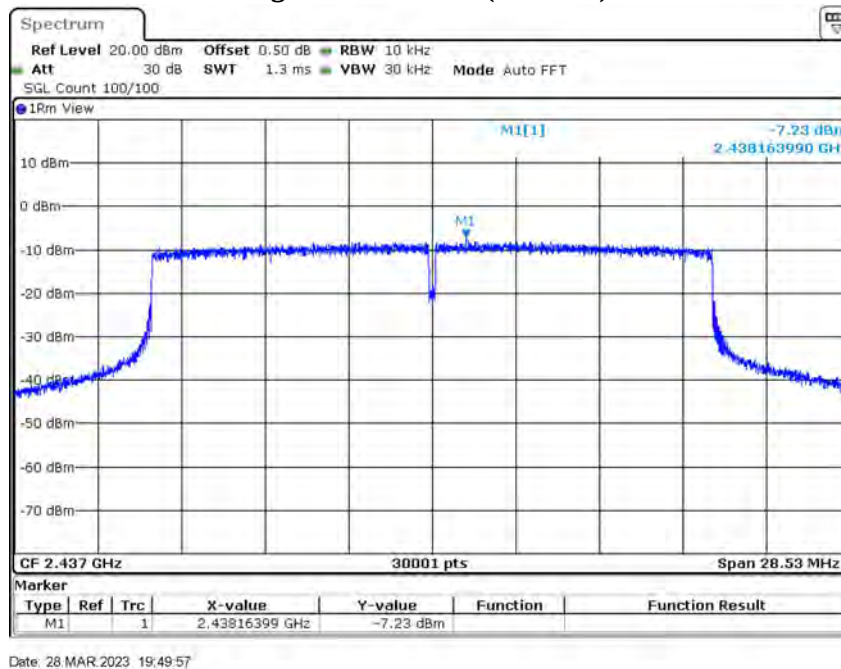
Date: 28 MAR 2023 19:19:00

Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-20 MHz)-CDD

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSSD/MHz (dBm)	Limit (dBm)	Result
01	2412	MCS0	A	-9.370	0.324	-2.92	8	Pass
			B	-9.460				
			C	-8.900				
			D	-9.340				
06	2437	MCS0	A	-8.180	0.324	-1.51	8	Pass
			B	-7.980				
			C	-7.230				
			D	-8.100				
11	2462	MCS0	A	-9.100	0.324	-2.54	8	Pass
			B	-8.800				
			C	-8.410				
			D	-9.280				

Note: Total PPSSD/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor.}$

Figure Channel 06 (Chain C):

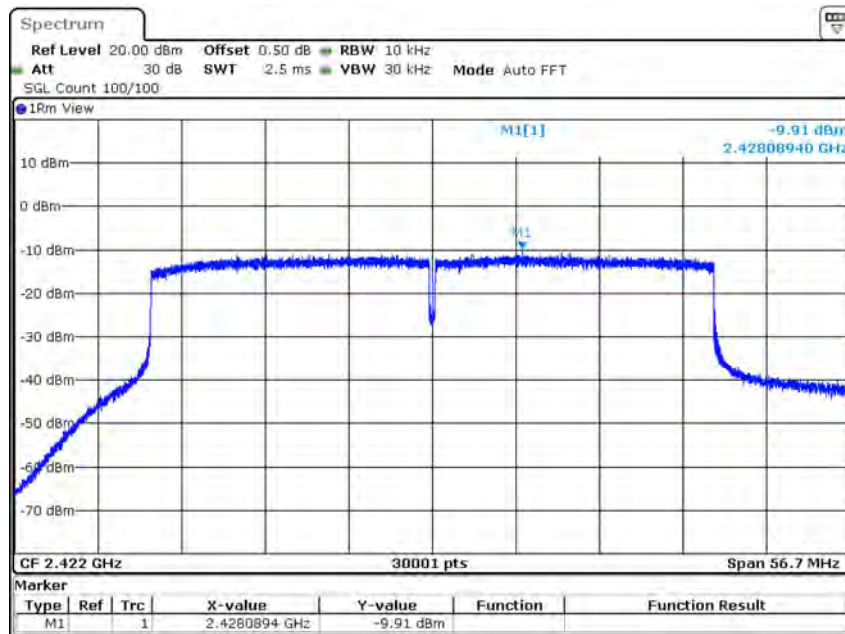


Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-40 MHz)-CDD

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSS/MHz (dBm)	Limit (dBm)	Result
03	2422	MCS0	A	-9.910	0.256	-4.15	8	Pass
			B	-10.680				
			C	-10.440				
			D	-10.720				
06	2437	MCS0	A	-10.180	0.256	-3.95	8	Pass
			B	-10.220				
			C	-10.330				
			D	-10.190				
09	2452	MCS0	A	-12.120	0.256	-5.66	8	Pass
			B	-11.810				
			C	-11.960				
			D	-11.850				

Note: Total PPSS/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor}$.

Figure Channel 03 (Chain A):



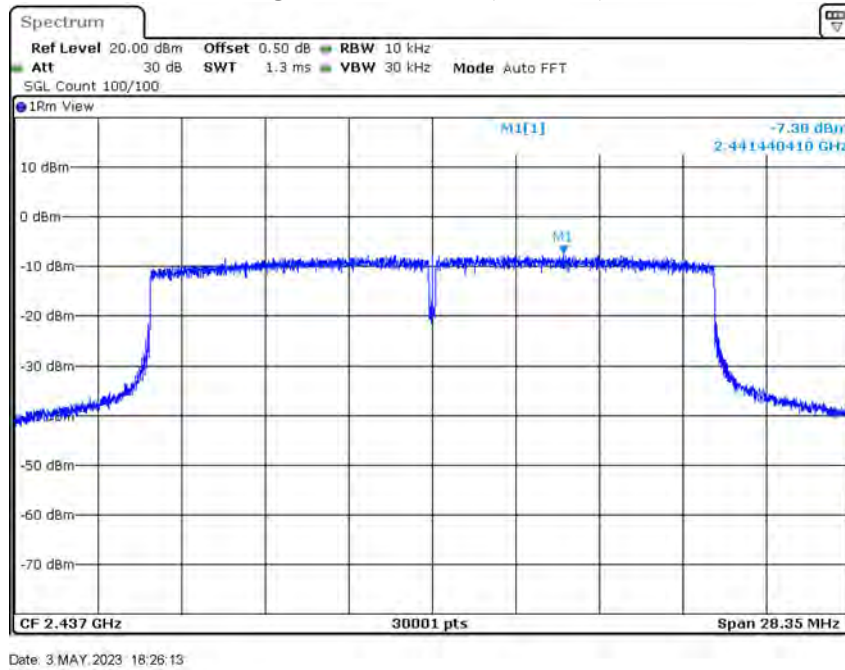
Date: 28 MAR 2023 20:08:44

Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-20 MHz)-Beamforming

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	MCS0	A	-7.510	0.234	-1.21	8	Pass
			B	-7.430				
			C	-7.320				
			D	-7.600				
06	2437	MCS0	A	-7.300	0.234	-1.19	8	Pass
			B	-7.330				
			C	-7.570				
			D	-7.570				
11	2462	MCS0	A	-7.790	0.234	-1.61	8	Pass
			B	-7.580				
			C	-8.170				
			D	-7.950				

Note: Total PPSD/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor.}$

Figure Channel 06 (Chain A):

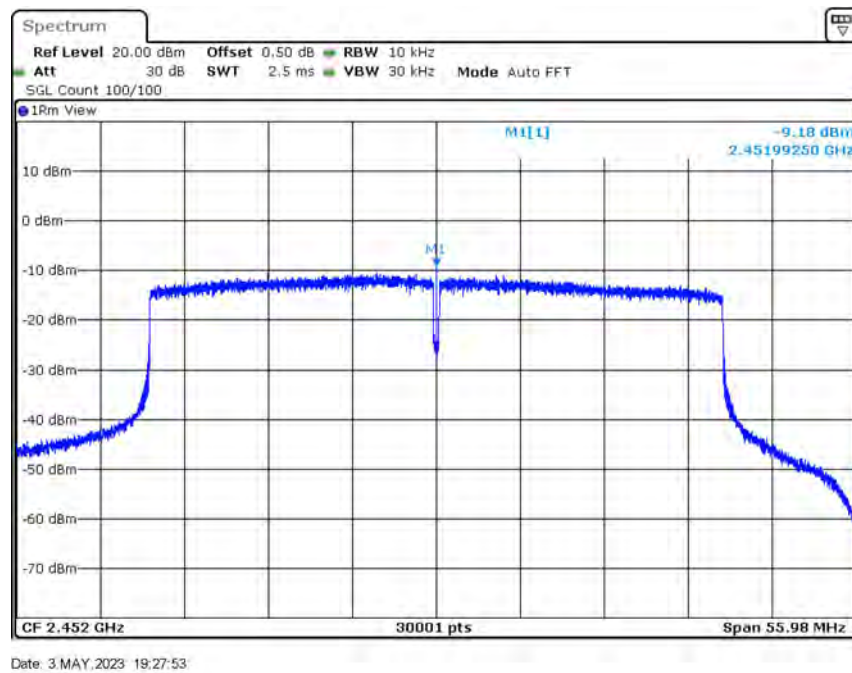


Product : Internet Gateway
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-40 MHz)-Beamforming

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSSD/MHz (dBm)	Limit (dBm)	Result
03	2422	MCS0	A	-9.860	0.324	-3.86	8	Pass
			B	-10.340				
			C	-10.090				
			D	-10.550				
06	2437	MCS0	A	-9.410	0.324	-3.46	8	Pass
			B	-10.090				
			C	-9.870				
			D	-9.890				
09	2452	MCS0	A	-9.180	0.324	-3.83	8	Pass
			B	-10.750				
			C	-10.290				
			D	-10.670				

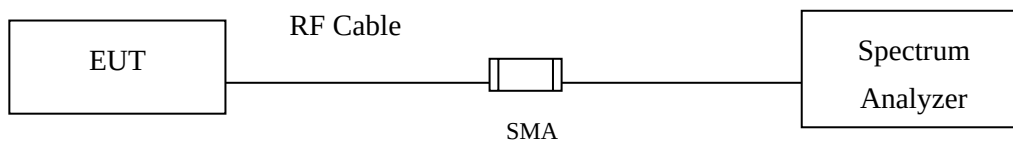
Note: Total PPSSD/MHz = $10 \cdot \log(\text{Chain A (mW)} + \text{Chain B (mW)} + \text{Chain C (mW)} + \text{Chain D (mW)}) + \text{Duty factor}$.

Figure Channel 09 (Chain A):



9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to ANSI C63.10 2013 for compliance to FCC 47CFR 15.247 requirements.

9.3. Test Result of Duty Cycle

Product : Internet Gateway
Test Item : Duty Cycle
Test Mode : Transmit-CDD mode

Duty Cycle Formula:

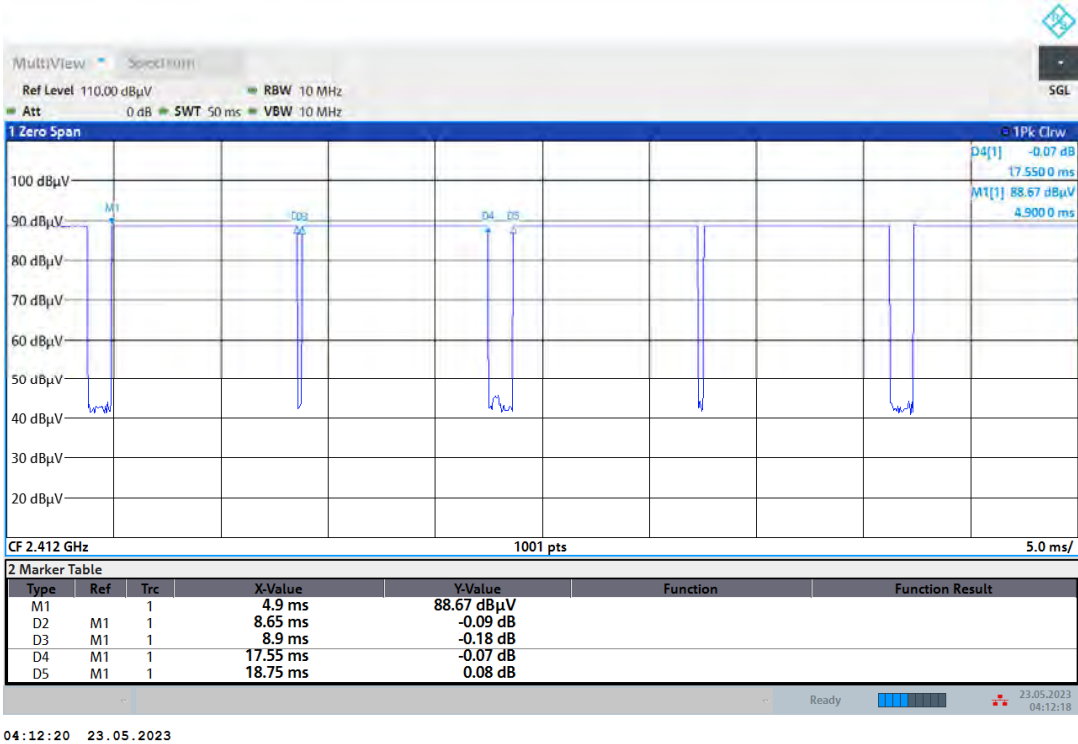
Duty Cycle = $T_{on} / (T_{on} + T_{off})$

Duty Factor = $10 \log (1/\text{Duty Cycle})$

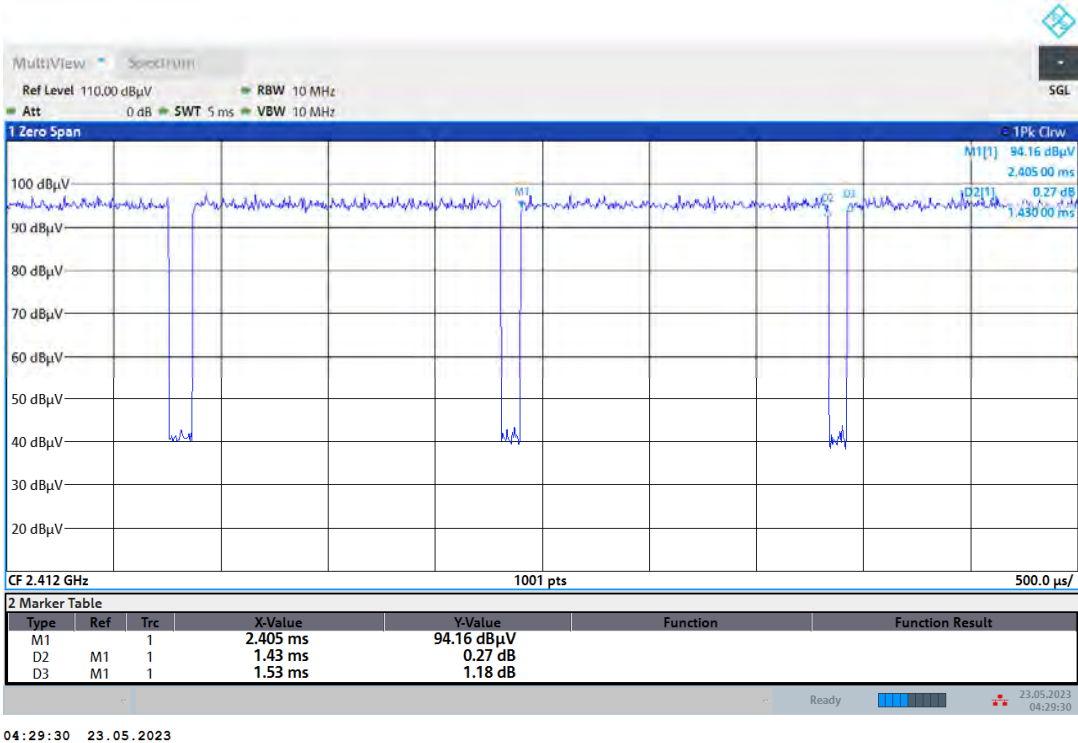
Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	17.3000	18.7500	92.27	0.35
802.11g	1.4300	1.5300	93.46	0.29
802.11ax-20 MHz	5.4300	5.8300	93.14	0.31
802.11ax-40 MHz	5.4100	5.8100	93.12	0.31

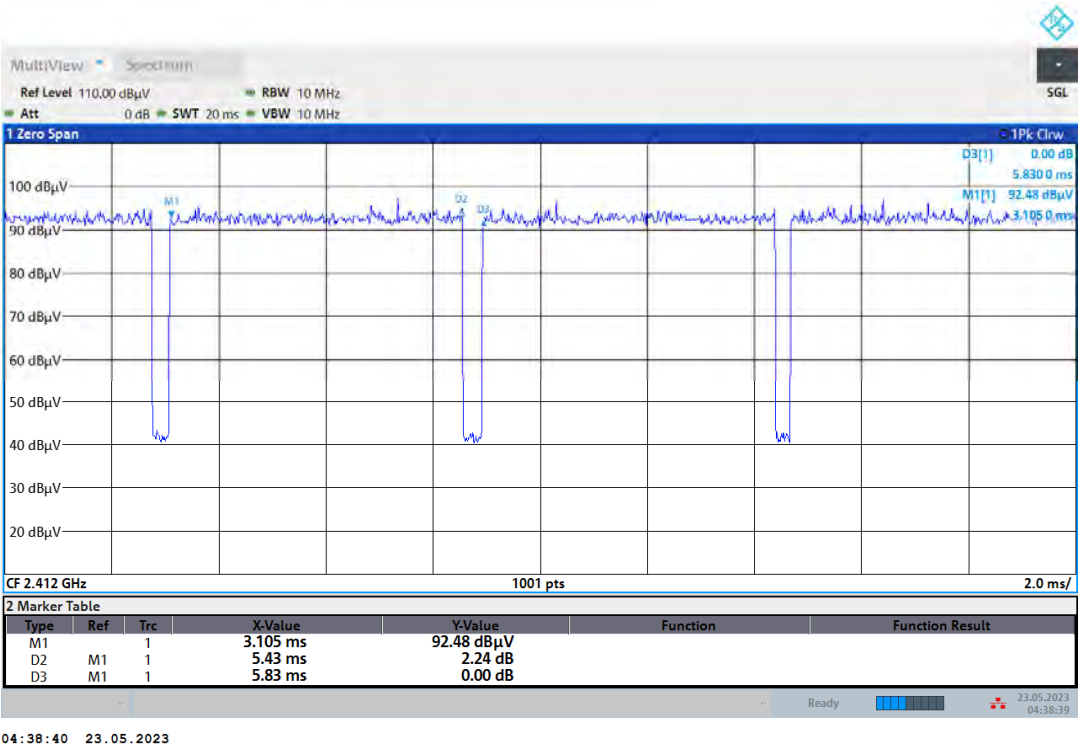
802.11b



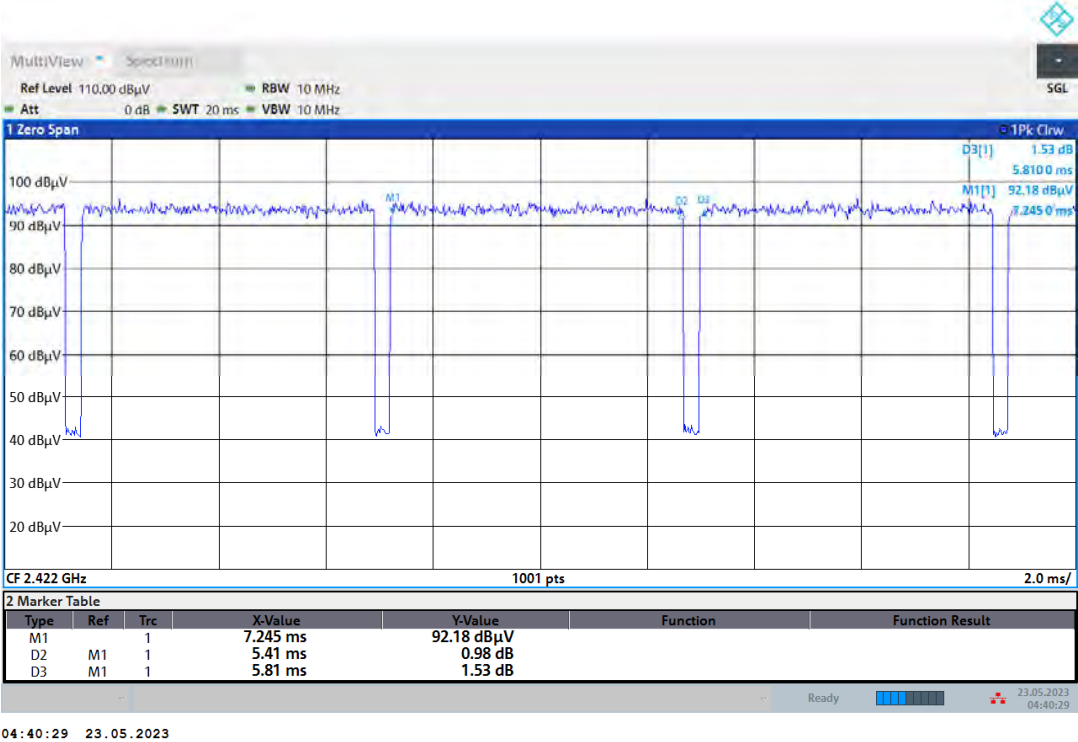
802.11g



802.11ax-20 MHz



802.11ax-40 MHz



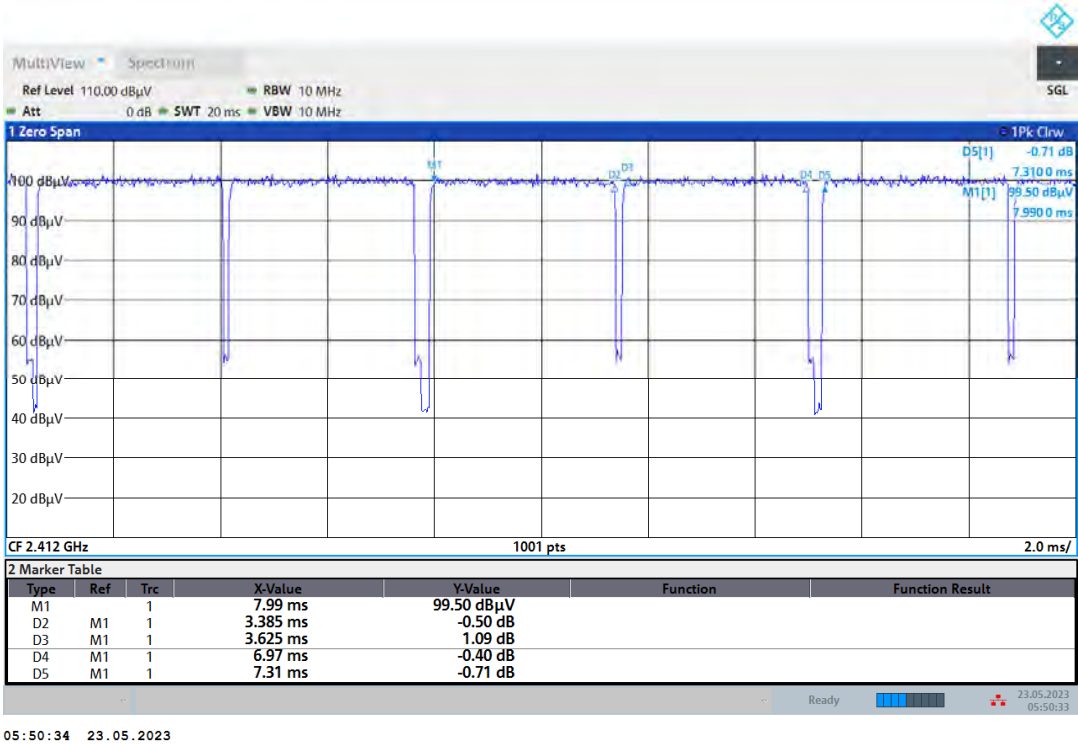
Product : Internet Gateway
Test Item : Duty Cycle
Test Mode : Transmit-Beamforming mode

Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)

Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11ax-20 MHz	6.7300	7.3100	92.07	0.36
802.11ax-40 MHz	6.8300	7.2900	93.69	0.28

802.11ax-20 MHz



802.11ax-40 MHz

