Product Name:	BT/BLE/WiFi 6 radio module
Brand Name:	SMART
Model No.:	SKI.WB800D.3
Series Model:	---
Applicant:	SMART TECHNOLOGIES ULC 3636 RESEARCH ROAD NW CALGARY, AB T2L 1Y1 CANADA
Date of Receipt:	Jul. 03, 2023
Finished date of Test:	Jul. 27, 2023
Applicable Standards:	47 CFR Part 15, Subpart C, 15.247 ANSI C63.10: 2013

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By : Jimmy Tseng , Date: Aug. 02, 2023

(Jimmy Tseng)

Approved By : , Date: 8/2/2023

(Johnson Ho, Director)

Testing Laboratory 1016

Revisions History

Report No.	Issue Date	Revisions
FCCA23070303-W0	Aug. 02, 2023	Initial issue

Table of Contents

1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- FCC Registered Test Site Number：TW1016

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- DC power source from DC 5V.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

1.4 DECISION RULE

- To make sure the testing report(s) meet the requirement of ISO/IEC 17025:2017 standard and meet chapter 7.1 (Review of Requests, Tenders and Contracts), chapter 7.4 (Handling of Test or Calibration Items), chapter 7.8.2 (Reporting of Results – Common Requirement for Reports (Test, Calibration or Sampling)), This decision rule will be the base of adjustment (include the disclaimer scope) from SRT LAB.
- After communicate between SRT LAB. and clients /applicants and get the agreement, SRT LAB. will do the adjustment. According to this decision rule, SRT LAB. Manager(s) will do the Pass or Fail adjustment. (But one thing need to be concerned is, not every assessing rule suits all declaration of conformity assessing actions, it should be ruled depends on product's feature, test standard, technical regulation, test results, and also acceptance of risk of both sides.)
- This report according to the "description of applied standards and statements of conformity" on the report, as the decision rule.

1.5 REPORTING STATEMENTS OF CONFORMITY

Base on ISO/IEC 17025, the statements of conformity requirement of testing results.

□ It does not need to provide the statements of conformity.

■ It need to provide the statements of conformity and

  ■ Use CISPR 16-4, ISO/IEC Guide 98-3, IEC Guide 115, ETSI ETR 028 speciation and it does not need to provide additional uncertainty of the testing results or data on the report(s).

  □ It need to provide additional uncertainty of the testing results or data on the report(s).

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BT/BLE/WiFi 6 radio module
MODEL NO.	SKI.WB800D.3
BRAND NAME	SMART
POWER SUPPLY	5Vdc 1A
CABLE	N/A
FREQUENCY BAND	2400 ~ 2483.5 MHz
CARRIER FREQUENCY	2412 ~ 2462 MHz
NUMBER OF CHANNEL	11
RATED RF OUTPUT POWER	IEEE 802.11b：21.25 dBm IEEE 802.11g：20.51 dBm IEEE 802.11n - HT20：20.52 dBm IEEE 802.11n - HT40：20.27 dBm IEEE 802.11ax - HE20：20.46 dBm IEEE 802.11ax - HE40：20.26 dBm
MODULATION TYPE	IEEE 802.11b：DSSS (BPSK / QPSK / CCK) IEEE 802.11g：OFDM (16-QAM / 64-QAM) IEEE 802.11n：OFDM (QPSK / 16-QAM / 64-QAM) IEEE 802.11ax : OFDMA(QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)
ANTENNA TYPE	Dipole Antenna
ANTENNA GAIN	3.19 dBi

NOTE:
For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID / DOC	REMARK
RF IC	AICSEMI	AIC8800D	N/A	WIFI 6 BT5.0 Moudle
XTLA	N/A	M26.00	N/A	26MHz XTAL
Front end IC	CHIPBETTER	CB5717	N/A	WIFI 6 5G Front-end Module
Antenna	HONGFUTAI	Dipole	N/A	2.4G paek Gain 3.19dbi 602-0015-065-A
Antenna	Megahertz	Dipole	N/A	2.4G paek Gain 2.06dbi 6150-000000-36000001
Antenna	Megahertz	Dipole	N/A	2.4G paek Gain 3.17dbi 6150-015600-36000001

2.3 DESCRIPTION OF TEST MODE

The EUT in Wi-Fi 2.4G mode has 11 channels and the modulations are below:

IEEE 802.11b：DSSS

IEEE 802.11g：OFDM

IEEE 802.11n - HT20/HT40：OFDM

IEEE 802.11ax - HE20/HE40：OFDMA

Use the software in TX test mode is “SecureCRTPortable”.

After pre-test in chamber and evaluate:

1. GFSK was the worst modulation, so use of GFSK for the final test mode.
2. Choose lowest, middle and highest channels for final test.
3. Three axix (X, Y and Z axis) are evaluated in chamber, the X axis is the worst in test.

Test Mode		Channel	Frequency (MHz)
1	802.11b	CH01	2412
2		CH06	2437
3		CH11	2462
4	802.11g	CH01	2412
5		CH06	2437
6		CH11	2462
7	802.11n - HT20	CH01	2412
8		CH06	2437
9		CH11	2462
10	802.11n – HT40	CH03	2422
11		CH06	2437
12		CH09	2452
13	802.11ax - HE20	CH01	2412
14		CH06	2437
15		CH11	2462
16	802.11ax – HE40	CH03	2422
17		CH06	2437
18		CH09	2452
19	Standby	---	---
20	Link	---	---

NOTE:

1. Below 1 GHz were pre-tested in chamber and chosen the worst case for conducted and radiated emission test.
2. Above 1 GHz were tested individually.

2.4 EUT OPERATING CONDITION

1. Setup the EUT and all peripheral devices .
2. Turn on the power of all equipment and EUT.
3. Transfer board between PC and EUT. Into engineering & Standby mode.

2.5 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.10:2013. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	PC	ASUS	M32AA1	DoC	1.8m unshielded power cable.
2	LCD Monitor	DELL	U2311Hb	DoC	1.8m unshielded power cable. 1.5m shielded data cable.
3	Mouse	ASUS	MOBTUO	DoC	1.5m unshielded data cable.
4	Keyboard	ASUS	AW211	DoC	1.5m unshielded data cable
5	Printer	HP	C8995A	DoC	1.5m unshielded power cable. 1.5m shielded data cable.
6	USB 2.0 HDD	Terasys	F-12U	DoC	1.5m shielded data cable.
7	USB Transfer board	SMART	USB TO TTL	NA	NA
10	Bandpass Filter	EMCI	NF2400-2500MHz	NA	NA

NOTE: For the actual test configuration, please refer to the photos of testing.

2.6 CHANNEL AND FREQUENCY TABLE

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

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C, 15.247

ANSI C63.10: 2013

All tests have been performed and recorded as the above standards.

3.1 DESCRIPTION OF APPLIED KDB

Related KDB used in the test:

FCC publication KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement on Digital Transmission Systems (DTS) Operating under Section 15.247 Apr. 02, 2019

3.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT RESULTS	RESULTS
15.203 15.247(c)(1)(i)	Antenna requirement	PASS
15.207	AC Power Line Conducted Emission	PASS
15.247(a)(2)	6 dB Bandwidth	PASS
15.247(b)	Maximum Peak Conducted Output Power	PASS
15.247(d)	Band Edge Measurement:	PASS
15.247(d)	Transmitter Radiated Emissions Limit: Table 15.209	PASS
15.247(e)	Power Density: Limit: 8dBm/3kHz	PASS

4. TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

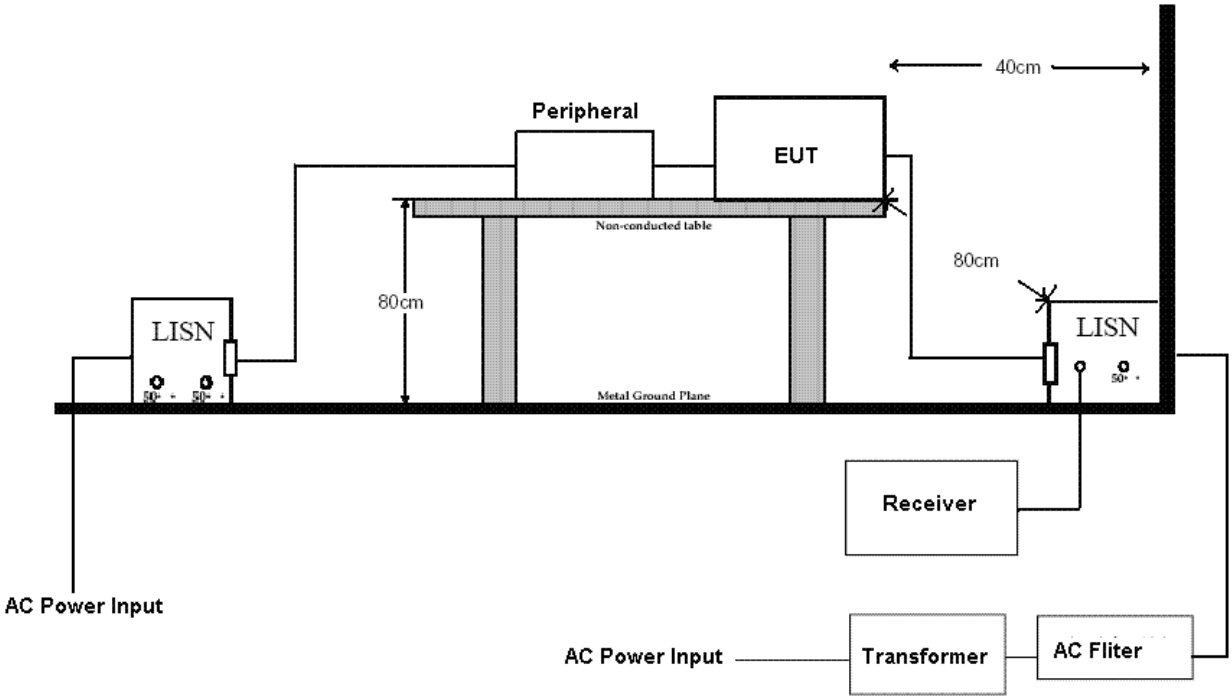
4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EMI TEST RECEIVER	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	APR. 26, 2024 ETC	■
LISN	50 μH, 50 ohm	SOLAR	9252-50-R-24-BNC / 951315	FEB. 22, 2024 ETC	■
LISN	50 μH, 50 ohm	SCHWARZBECK	NSLK 8127/ 8127-808	MAR. 08, 2024 ETC	■
50Ω BNC TYPE TERMINATOR	50 ohm	N/A	11593A/ L1TEQU005	FEB. 14, 2024 ETC	■
50Ω BNC TYPE TERMINATOR	50 ohm	N/A	B00-CD-357 / L1TEQU009	JUL. 14, 2024 ETC	■
COAXIAL CABLE	5 m	HUBER+ SUHNER	RG214/U(5m) / L1TCAB013	JUN. 23, 2024 ETC	■
FILTER	2 LINE, 30 A	FIL.COIL	FC-943 / 771	NCR	■
GROUND PLANE	2 m (H) x 3 m (W)	SRT	N/A	NCR	■
GROUND PLANE	2.5 m (H) x 3 m (W)	SRT	N/A	NCR	■
PULSE LIMITER	9 kHz ~ 30 MHz Insertion Loss= 10dB±0.3dB	ROHDE & SCHWARZ	ESH3-Z2 / L1TTES010	FEB. 16, 2024 ETC	■
THERMO-HYGRO	15 – 40 °C,	TOP	20-A / 6644	MAR. 01, 2024 ETC	■
MEASUREMENT SOFTEARE	N/A	EZ-EMC	SRT-03A1	NCR	■

NOTE:
The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 TEST SETUP



NOTE :
1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

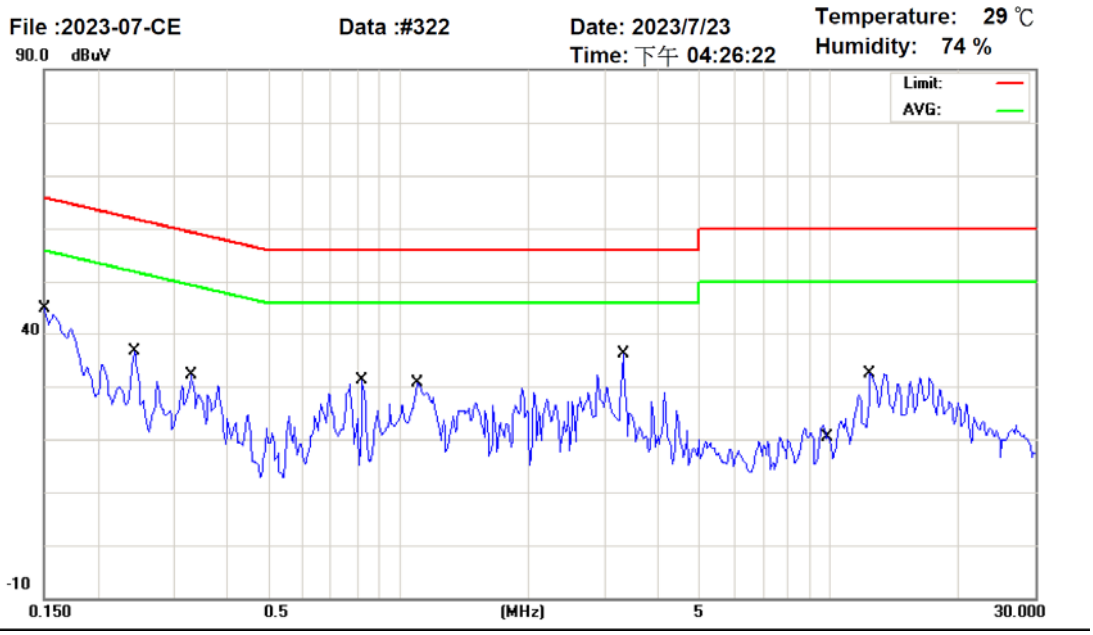
4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50μH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.1.5 TEST RESULT

Temperature:	29 °C	Humidity:	74 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	Standby
Receiver Detector:	Q.P. and AV.	Tested Date:	Jul. 23, 2023

Power Line Measured：Line

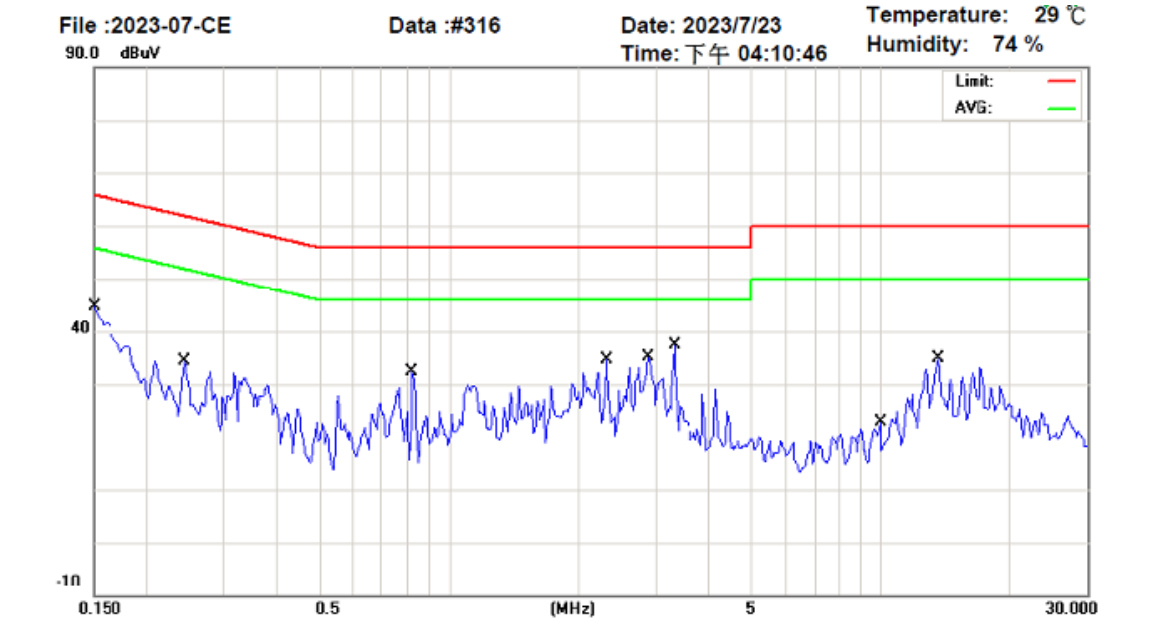


Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	37.41	-0.05	37.36	66.00	-28.64	QP	
	2	0.1500	22.52	-0.05	22.47	56.00	-33.53	AVG	
	3	0.2437	35.07	-0.04	35.03	61.97	-26.94	QP	
	4	0.2437	34.86	-0.04	34.82	51.97	-17.15	AVG	
	5	0.3297	27.99	-0.05	27.94	59.46	-31.52	QP	
	6	0.3297	24.22	-0.05	24.17	49.46	-25.29	AVG	
	7	0.8258	29.10	-0.03	29.07	56.00	-26.93	QP	
	8	0.8258	25.86	-0.03	25.83	46.00	-20.17	AVG	
	9	1.1031	25.72	-0.02	25.70	56.00	-30.30	QP	
	10	1.1031	22.77	-0.02	22.75	46.00	-23.25	AVG	
	11	3.3125	35.61	0.06	35.67	56.00	-20.33	QP	
*	12	3.3125	35.07	0.06	35.13	46.00	-10.87	AVG	
	13	10.0000	12.23	0.28	12.51	60.00	-47.49	QP	
	14	10.0000	7.49	0.28	7.77	50.00	-42.23	AVG	
	15	12.4414	26.67	0.32	26.99	60.00	-33.01	QP	
	16	12.4414	19.06	0.32	19.38	50.00	-30.62	AVG	

NOTE:
1. Measurement uncertainty is 1.61 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
   Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

Temperature:	29 °C	Humidity:	74 %RH
Frequency Range:	0.15 – 30 MHz	Tested Mode:	Standby
Receiver Detector:	Q.P. and AV.	Tested Date:	Jul. 23, 2023

Power Line Measured：Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	37.37	-0.09	37.28	66.00	-28.72	QP	
	2	0.1500	20.75	-0.09	20.66	56.00	-35.34	AVG	
	3	0.2437	32.35	-0.08	32.27	61.97	-29.70	QP	
	4	0.2437	31.82	-0.08	31.74	51.97	-20.23	AVG	
	5	0.8258	30.63	-0.06	30.57	56.00	-25.43	QP	
	6	0.8258	28.67	-0.06	28.61	46.00	-17.39	AVG	
	7	2.3141	24.30	-0.01	24.29	56.00	-31.71	QP	
	8	2.3141	8.38	-0.01	8.37	46.00	-37.63	AVG	
	9	2.8883	21.59	0.02	21.61	56.00	-34.39	QP	
	10	2.8883	9.28	0.02	9.30	46.00	-36.70	AVG	
	11	3.3125	35.83	0.03	35.86	56.00	-20.14	QP	
*	12	3.3125	35.38	0.03	35.41	46.00	-10.59	AVG	
	13	10.0000	12.67	0.25	12.92	60.00	-47.08	QP	
	14	10.0000	7.54	0.25	7.79	50.00	-42.21	AVG	
	15	13.5742	30.97	0.30	31.27	60.00	-28.73	QP	
	16	13.5742	23.09	0.30	23.39	50.00	-26.61	AVG	

NOTE:
1. Measurement uncertainty is 1.61 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN
   Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.

4.2 RADIATED EMISSION TEST

4.2.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	FIELD STRENGTH (microvolts/meter)	DISTANCE (m)	FIELD STRENGTH (dBμV/m)
0.009 - 0.490	2400/F(kHz)	300	67.6-20log(kHz)
0.490 - 1.705	24000/F(kHz)	30	87.6-20log(kHz)
1.705 - 30	30	30	30
30 - 88	100	3	40.0
88 - 216	150	3	43.5
216 - 960	200	3	46.0
Above 960	500	3	54.0

NOTE:

1. 30 dBuV (in 30m) = 70 dBuV (in 3m).
2. In the emission tables above , the tighter limit applies at the band edges.
3. Distance refers to the distance between measuring instrument, antemma, and the closest point of any part of the device or system.

FCC Part 15, Section 15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

4.2.2 TEST EQUIPMENT

Below 1 GHz The following test equipment was used during the radiated emission test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EMI Test Receiver	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	APR. 26, 2024 ETC	■
Biconical Antenna	30 MHz ~ 200 MHz	EMCO	3108 / 2380	MAY. 01, 2024 ETC	■
LOOP ANTENNA	9 kHz ~ 30 MHz	ROHDE & SCHWARZ	HFH2-Z2 / 860605/002	JUL. 19, 2024 ETC	■
Log Periodic Antenna	200 MHz ~ 1 GHz	EMCO	3146 / 9002-2686	MAY. 01, 2024 ETC	■
Open Area Test Site	3 ~ 10 M Measurement	SRT	A02 / SRT002	MAR. 07, 2024 SRT	■
Coaxial Cable	9 kHz ~ 1 GHz	TIMES	LMR-400(30m) / L1TCAB014	Jul. 06, 2024 ETC	■
Coaxial Cable	9 kHz ~ 1 GHz	Time	LMR-400 (#2m) / L1TCAB012	MAR. 20, 2024 ETC	■
Filter	2 LINE, 30 A	FIL.COIL	FC-943 / 869	NCR	■
CDN	0.15 MHz ~ 300 MHz	LUTHI	CDN L-801 M2/M3 / 2790	JUN. 10, 2024 ETC	□
Pre-Amplifier	0.1 MHz ~ 1.3 GHz	HP	8447D / 2944A06746	APR. 19, 2024 ETC	■
Thermo-Hygro	15 ~ 40°C, 0 ~ 100% RH	TOP	20-A / 9326	MAR. 26, 2024 ETC	■

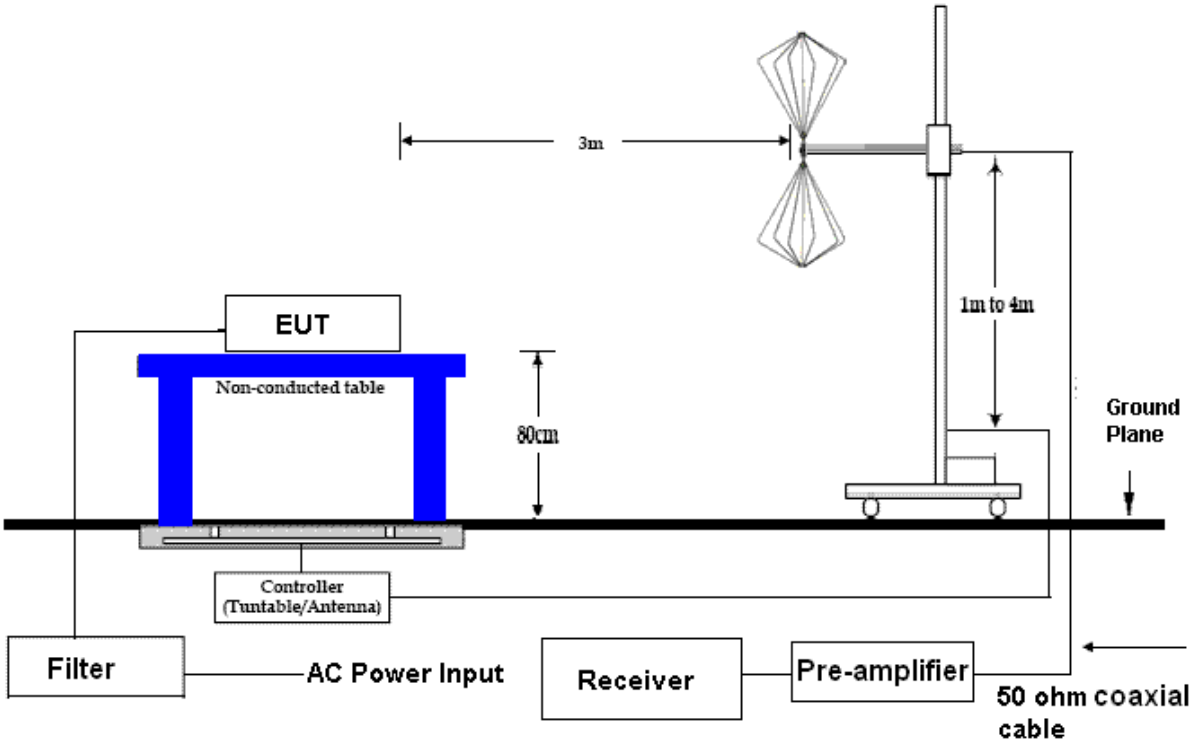
Above 1 GHz The following test equipment was used during the radiated emission test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EXA Signal Analyzer	10Hz ~ 44 GHz	KEYSIGHT	N9010A / MY56480554	Jul. 10, 2024 ETC	■
Pre-Amplifier	1 GHz ~ 26.5 GHz	AGILENT	8449B / 3008A01995	MAR. 06, 2024 ETC	■
Horn Antenna	1 GHz ~ 18 GHz	EMCO	3115 / 9602-4681	FEB. 23, 2024 ETC	■
Horn Antenna	18 ~ 40 GHZ	ETS-LINDGREN	3116 / 2567	MAY.13, 2024 ETC	■
Anechoic Chamber	3 M Measurement	SRT	A01 / SRT001	JUN. 22, 2024 SRT	■
RF Cable	Up to 18 GHz 6 m*2	EMCI	EMC107-SM-6000 / 230726	JUN. 14, 2024 ETC	■
RF Cable	Up to 18 GHz 1.5 m	JYEBAO	A30A30-L 142 / EQF-0035(001)	FEB. 16, 2024 ETC	■
K-Type Cable	Up tp 40 GHz 3 m	HUBER+ SUHNER	SF102-46/2*11SK252 / MY2611/2	APR. 24, 2024 ETC	■
K-Type Cable	Up to 40 GHz, 1 m	HUBER+ SUHNER	SF102/2*11SK252 / MY3331/2	FEB. 13, 2024 ETC	■
Filter	2 Line, 30 A	FIL.COIL	FC-943 / 869	NCR	■
Thermo-Hygro	15 ~ 40 ℃, 0 ~ 100% RH	TOP	20-A / 6644	MAR. 01,2024 ETC	■

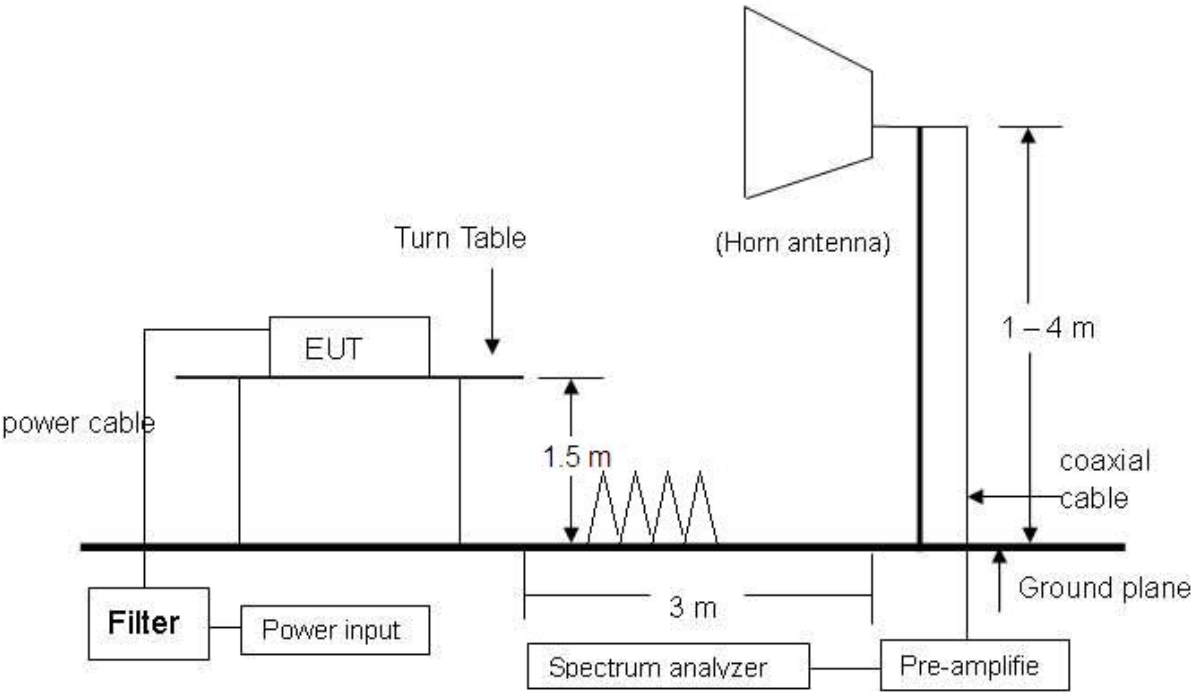
Measurement Software	N/A	EZ-EMC	SRT-03A1	NCR	■

4.2.3 TEST SET-UP

30 MHz ~ 1 GHz



Above 1 GHz



NOTE: The EUT system was put on a Styrofoam table with 1.5m heights above a ground plane. For the actual test configuration, please refer to the photos of testing.

4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and CISPR 22:2003. When the frequency spectrum measured started from 30 MHz to 1 GHz, then use antenna is a BICONICAL ANTENNA & LOG PERIODIC ANTENNA. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.2.5 TEST RESULT

Temperature:	29 °C	Humidity:	76 %RH
Frequency Range:	30 MHz ~ 1 GHz	Tested Mode:	Standby
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 24, 2023

Antenna Polarization：Horizontal

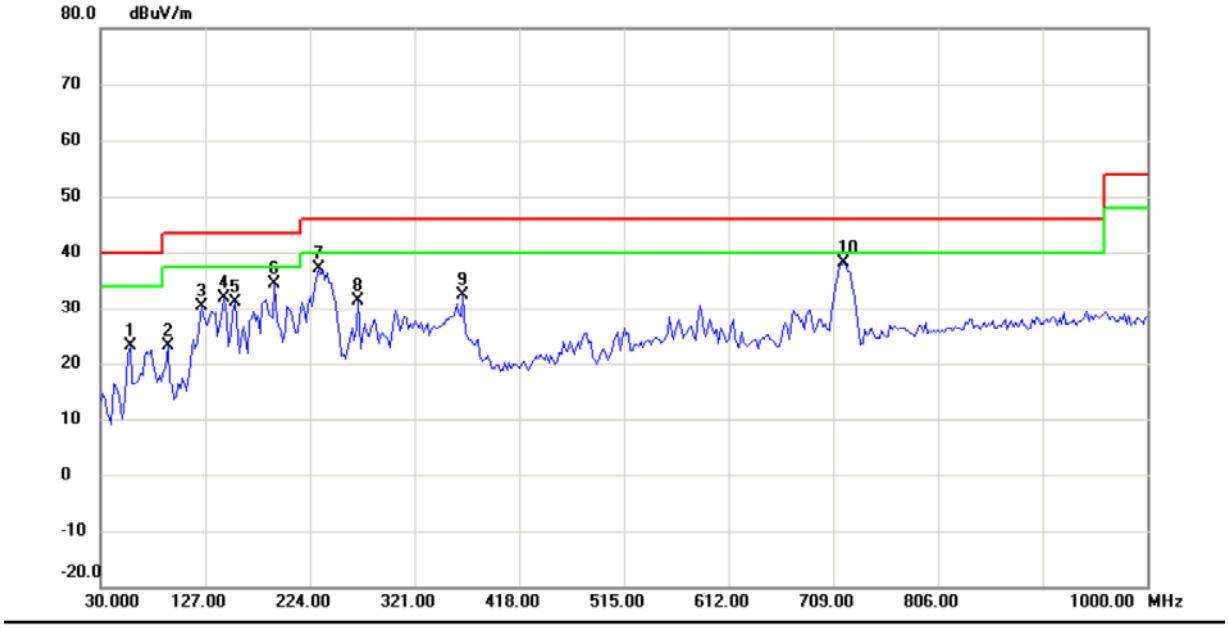
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
123.12	2.88	11.70	27.96	51.59	38.21	43.5	-5.29	186	3.71
154.16	3.05	12.50	27.81	48.40	36.15	43.5	-7.35	242	3.62
191.02	3.45	13.80	27.62	47.25	36.88	43.5	-6.62	93	3.50
231.76	3.87	12.62	27.49	48.26	37.26	46.0	-8.74	104	3.38
365.62	5.20	16.00	27.73	42.50	35.98	46.0	-10.02	87	2.96
718.71	8.27	21.50	28.36	38.51	39.92	46.0	-6.09	358	1.87

Antenna Polarization：Vertical

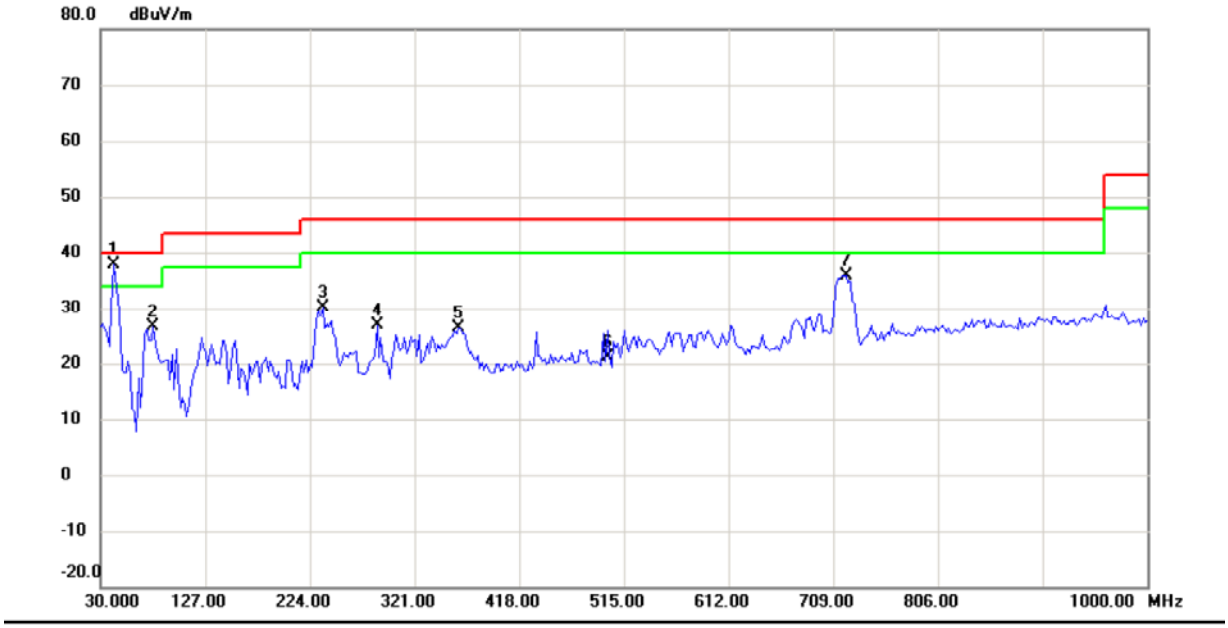
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
41.64	1.99	12.80	28.28	44.26	30.78	40.0	-9.22	100	1.04
78.50	2.33	8.30	28.14	43.25	25.74	40.0	-14.26	138	1.15
235.64	3.93	12.70	27.48	48.17	37.32	46.0	-8.68	232	1.64
286.08	4.57	14.24	27.33	41.24	32.72	46.0	-13.28	152	1.79
361.74	5.17	16.08	27.70	36.50	30.05	46.0	-15.95	97	2.03
720.64	8.29	21.50	28.36	38.56	39.99	46.0	-6.01	346	3.14

NOTE:
1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

Antenna Polarization：Horizontal



Antenna Polarization：Vertical



Temperature:	29 °C	Humidity:	76 %RH
Frequency Range:	30 MHz ~ 1 GHz	Tested Mode:	Link
Detector Type:	Quasi-peak	IF Bandwidth:	120 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 24, 2023

Antenna Polarization：Horizontal

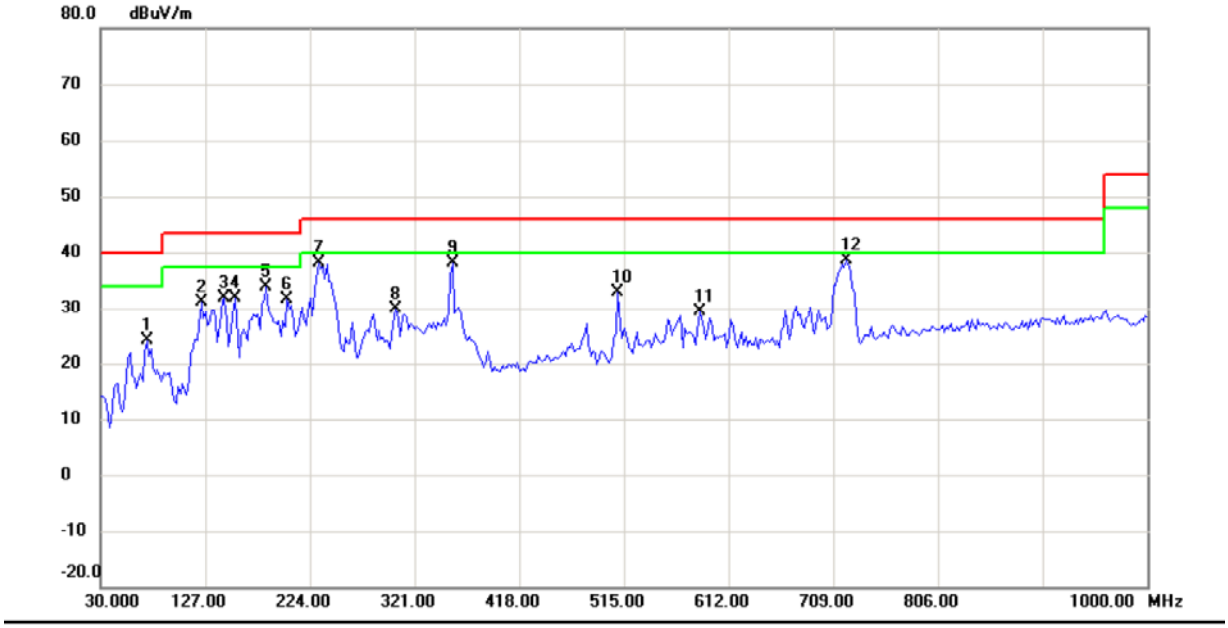
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
50.78	2.06	11.50	28.23	44.25	29.58	40.0	-10.42	192	3.94
43.56	2.01	12.60	28.27	42.51	28.85	40.0	-11.15	210	3.96
48.44	2.04	11.90	28.24	39.68	25.38	40.0	-14.62	198	3.94
40.27	1.98	12.90	28.28	42.15	28.75	40.0	-11.25	356	3.97
35.06	1.83	13.50	28.29	30.28	17.32	40.0	-22.68	70	3.98
720.64	8.29	21.50	28.36	35.26	36.69	46.0	-9.31	230	1.86

Antenna Polarization：Vertical

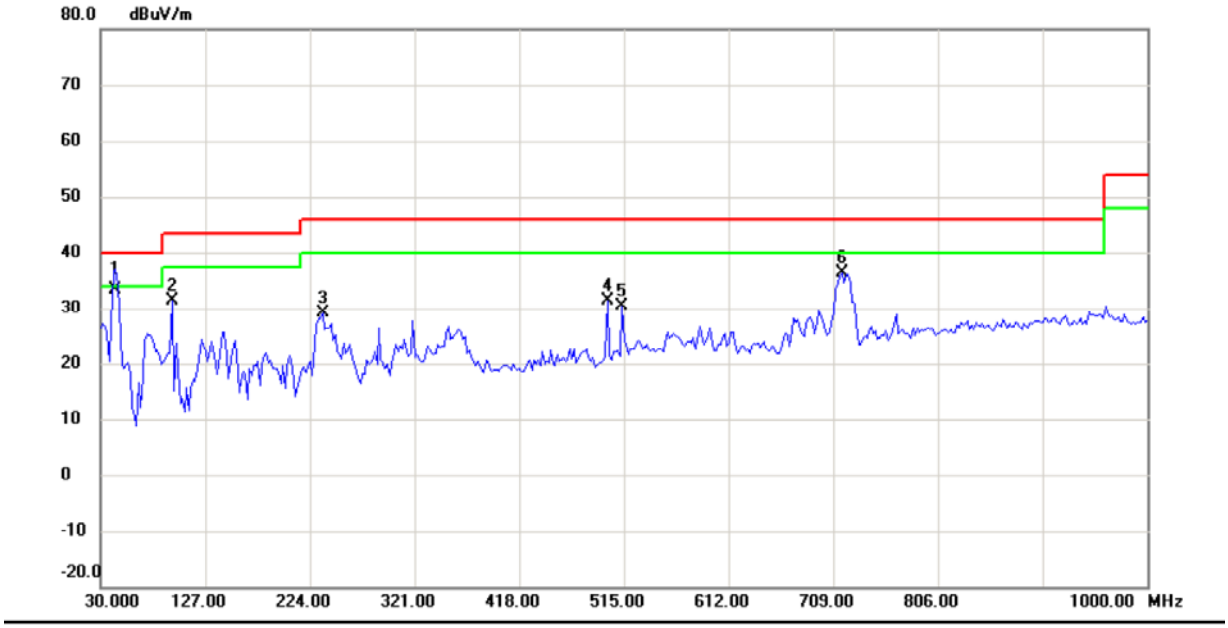
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
55.48	2.09	10.80	28.21	50.16	34.83	40.0	-5.17	52	1.04
49.75	2.05	11.70	28.24	42.62	28.14	40.0	-11.86	204	1.20
47.11	2.04	11.80	28.25	40.58	26.17	40.0	-13.83	50	1.64
39.12	1.95	13.00	28.28	41.32	27.99	40.0	-12.01	328	2.45
37.50	1.89	13.20	28.29	39.68	26.49	40.0	-13.51	328	2.50
39.23	1.95	13.00	28.28	35.24	21.91	40.0	-18.09	183	3.13

NOTE:
1. Measurement uncertainty is 4.20 dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

Antenna Polarization：Horizontal

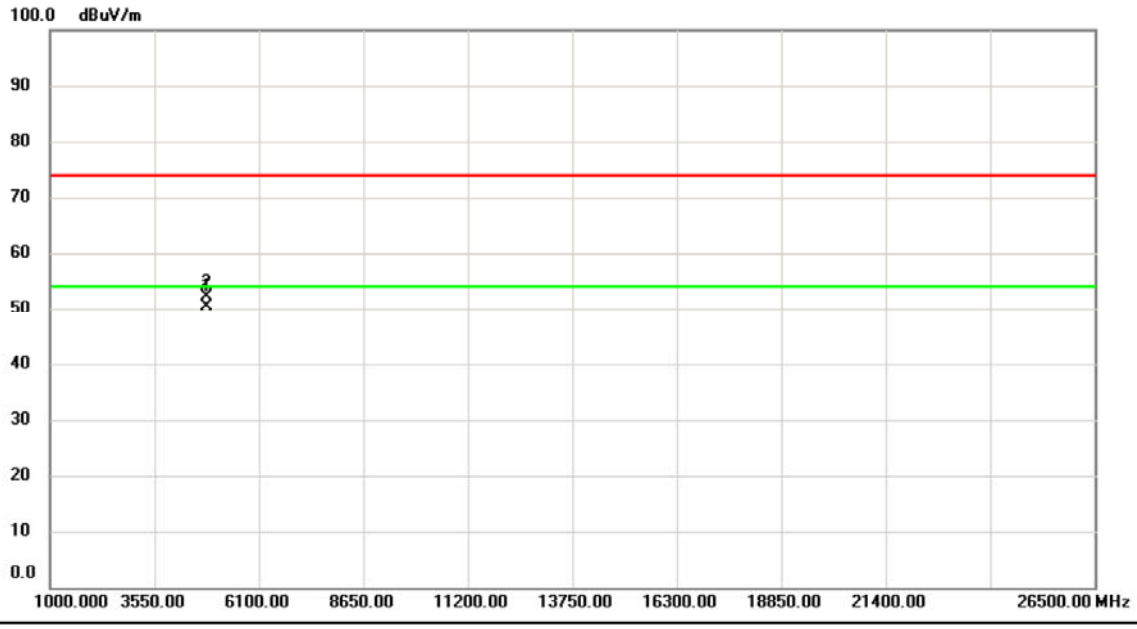


Antenna Polarization：Vertical



Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

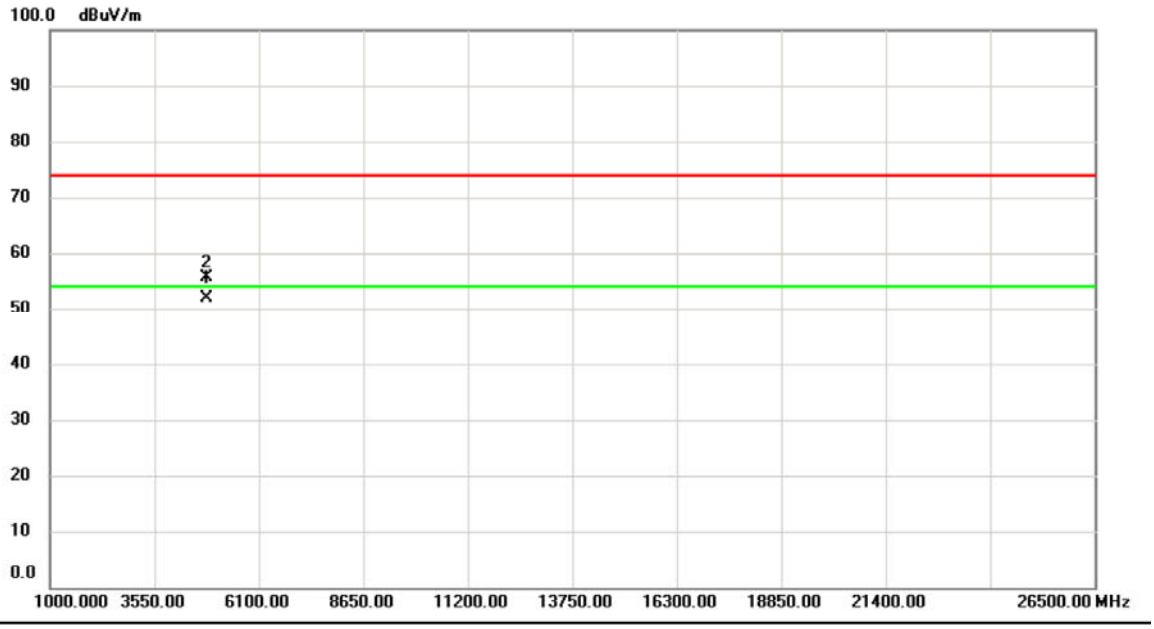


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.880	44.18	6.22	50.40	54.00	-3.60	AVG	
2		4823.985	46.03	6.22	52.25	74.00	-21.75	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

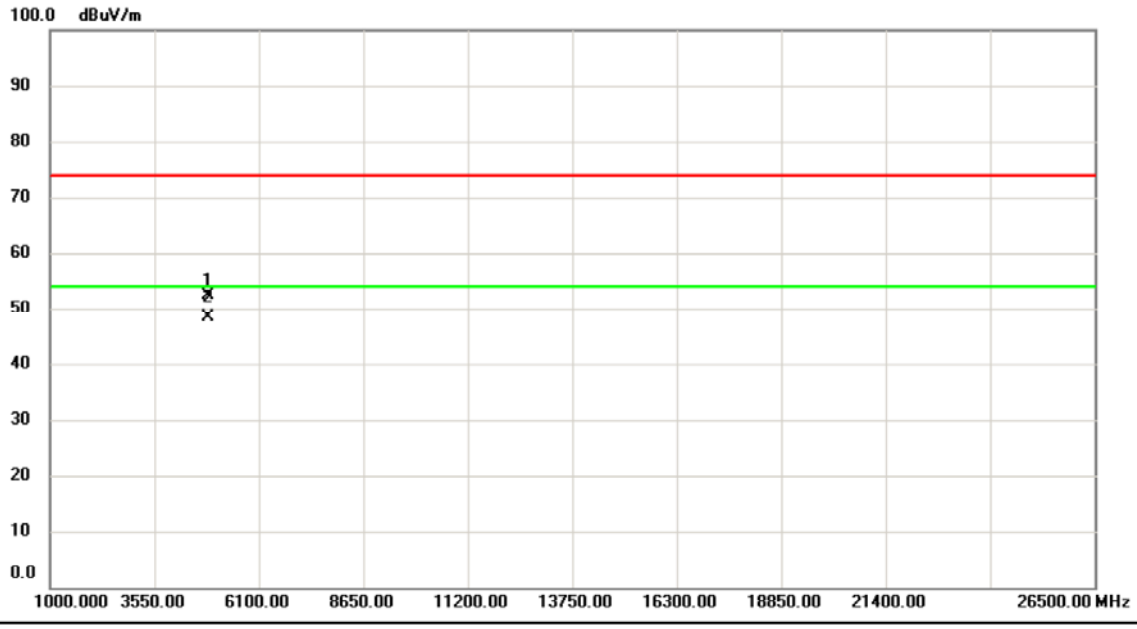


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.970	45.59	6.22	51.81	54.00	-2.19	AVG	
2		4824.110	49.42	6.22	55.64	74.00	-18.36	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

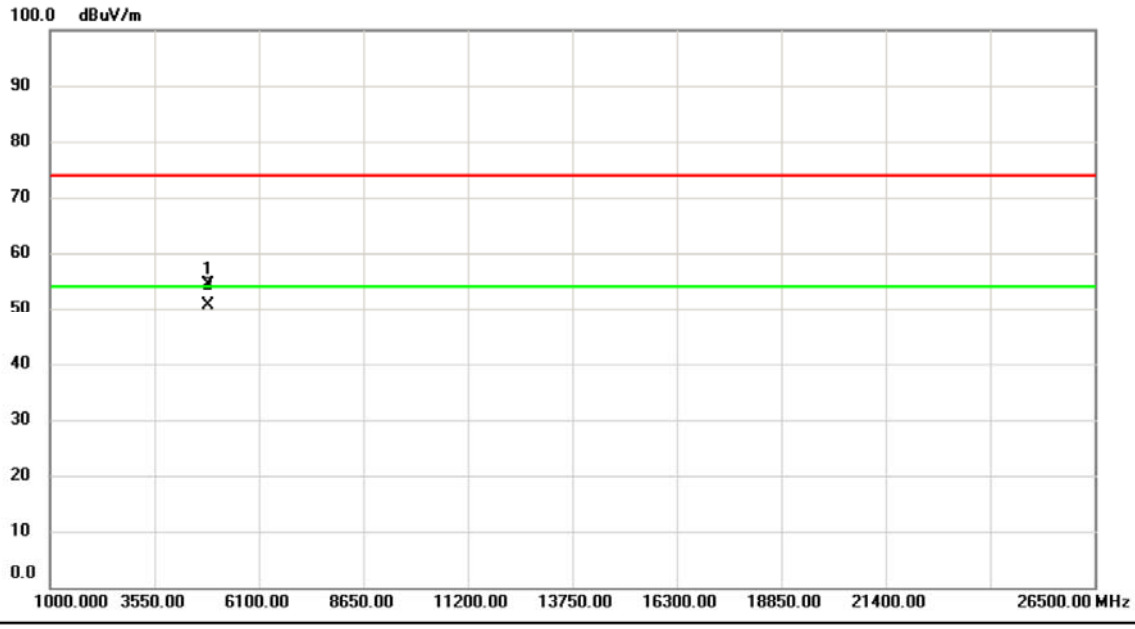


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.925	45.88	6.51	52.39	74.00	-21.61	peak	
2	*	4873.935	41.83	6.51	48.34	54.00	-5.66	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

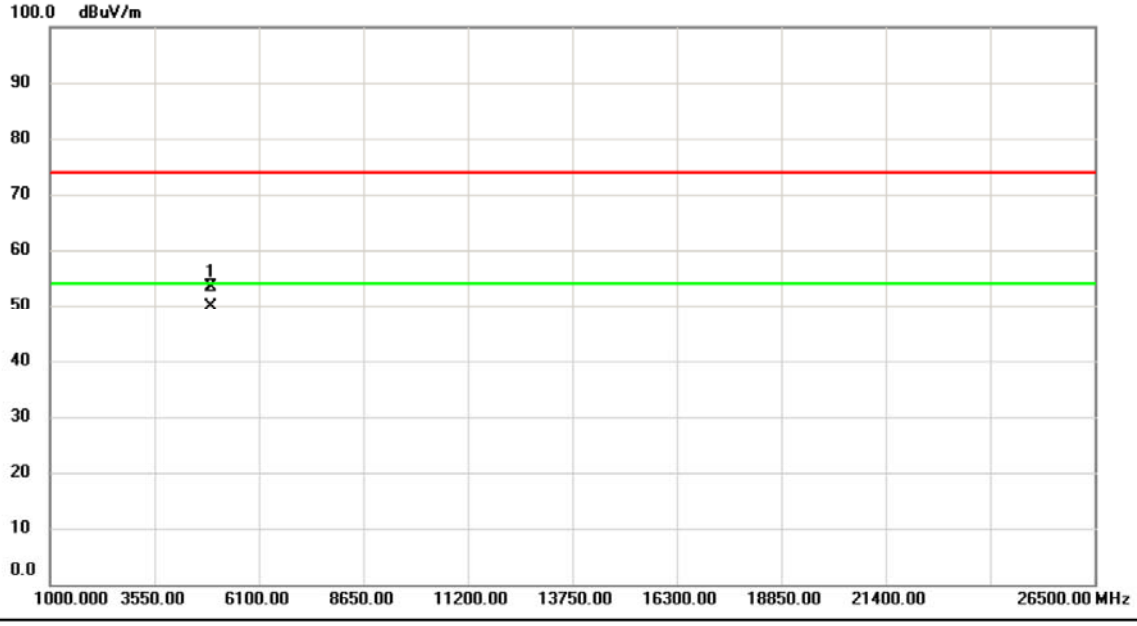


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.955	47.97	6.51	54.48	74.00	-19.52	peak	
2	*	4873.955	44.24	6.51	50.75	54.00	-3.25	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

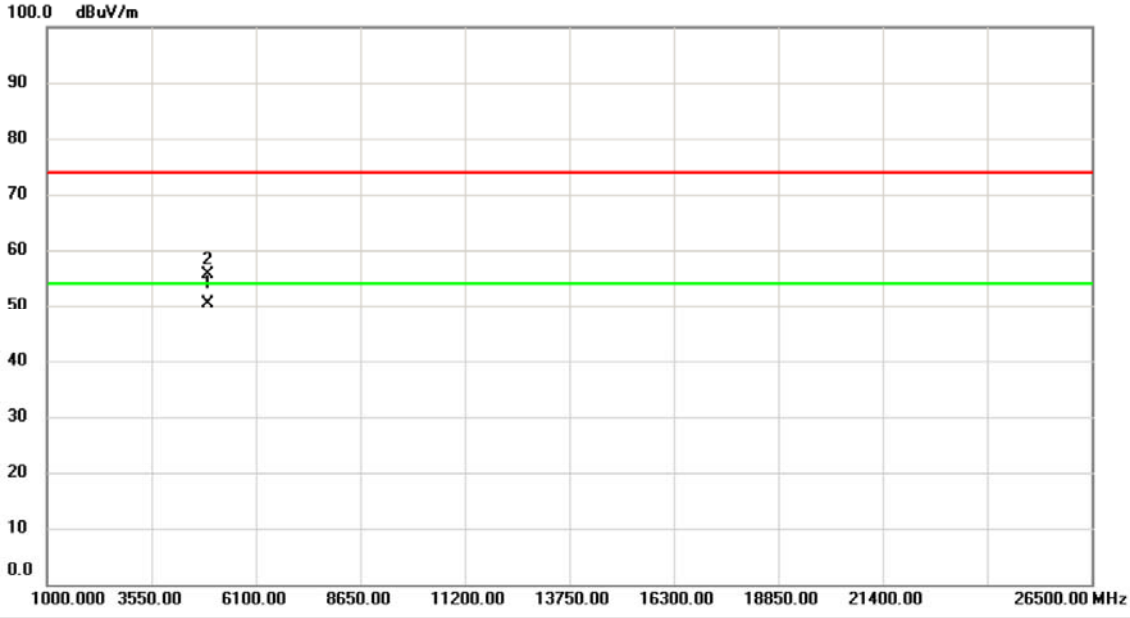


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.900	46.58	6.69	53.27	74.00	-20.73	peak	
2	*	4923.905	43.22	6.69	49.91	54.00	-4.09	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11b CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

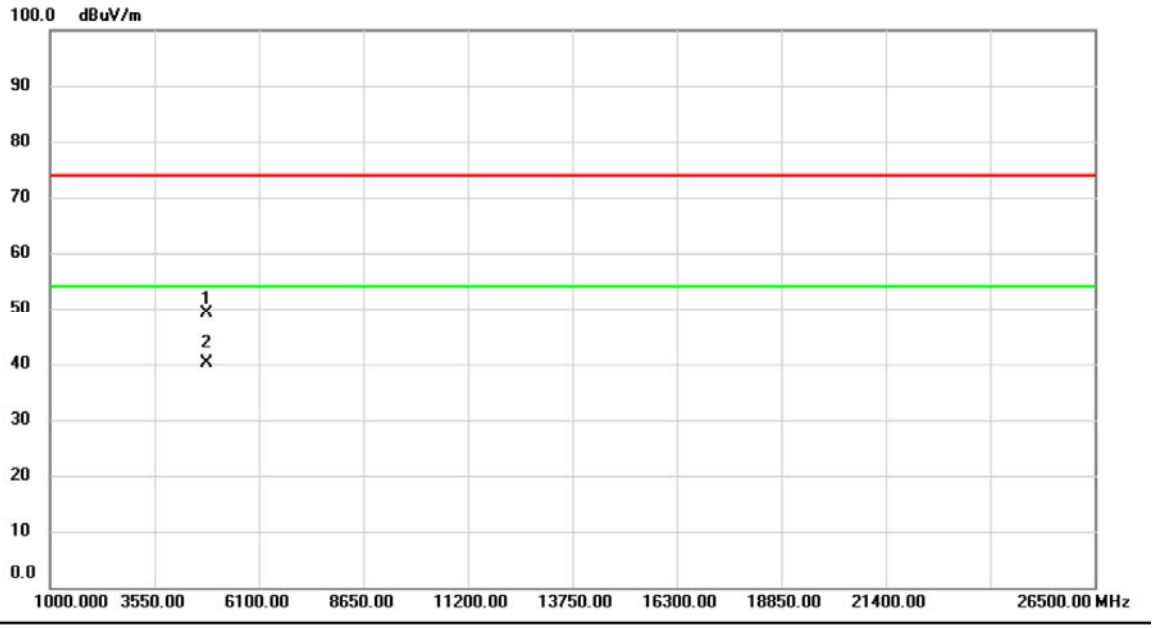


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.995	43.65	6.69	50.34	54.00	-3.66	AVG	
2		4924.050	48.88	6.69	55.57	74.00	-18.43	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

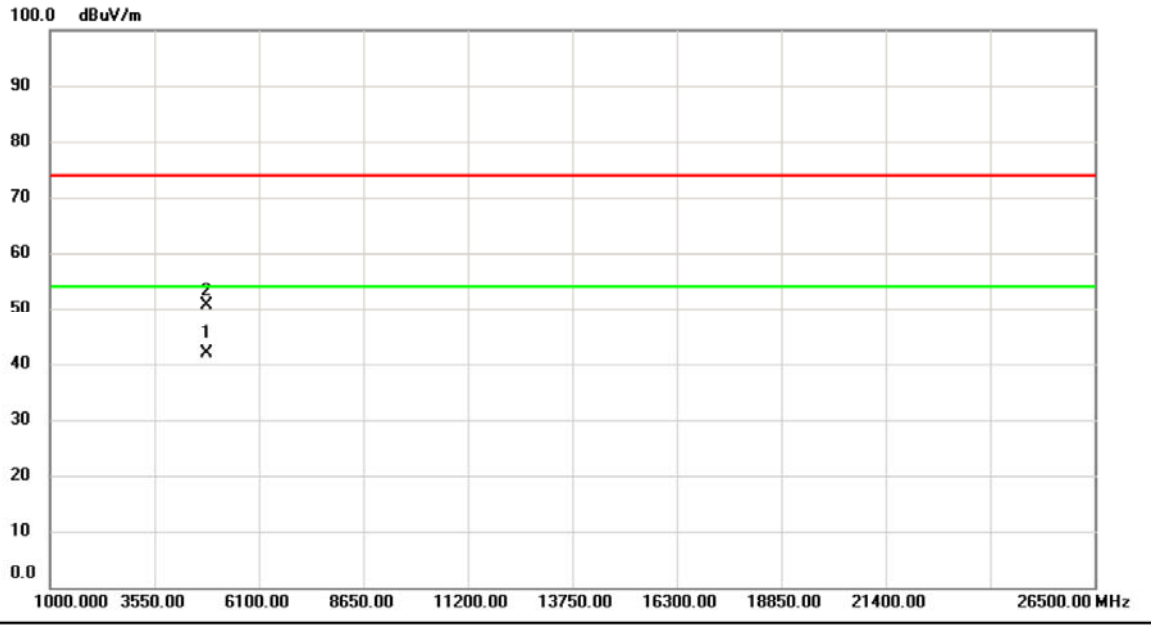


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.170	42.80	6.22	49.02	74.00	-24.98	peak	
2	*	4823.735	33.85	6.22	40.07	54.00	-13.93	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

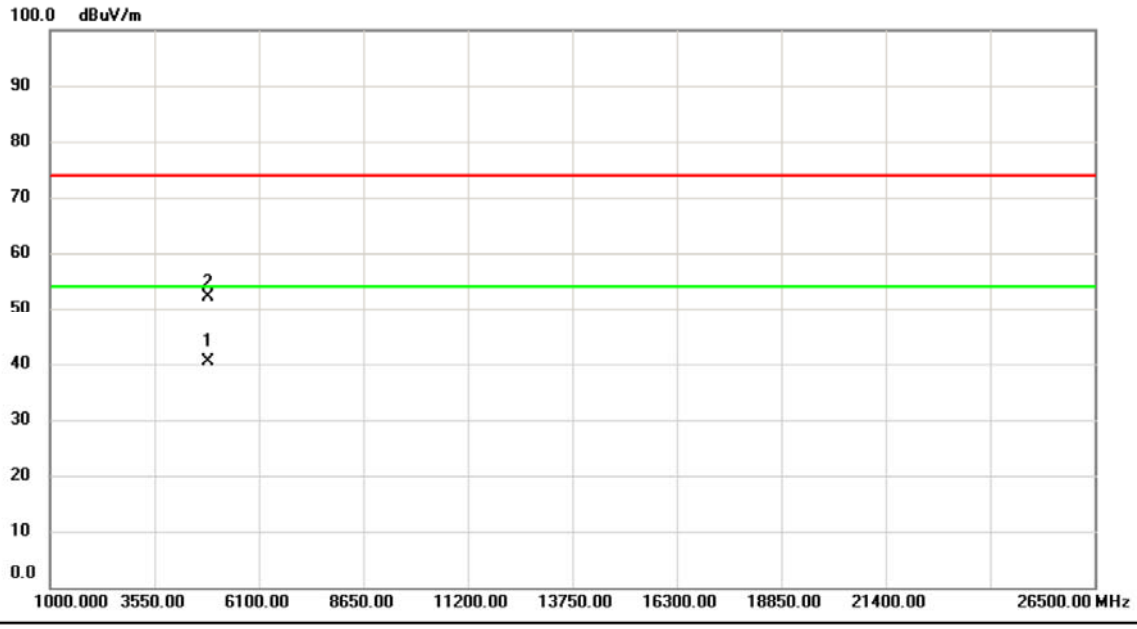


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.830	35.75	6.22	41.97	54.00	-12.03	AVG	
2		4825.705	44.35	6.23	50.58	74.00	-23.42	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

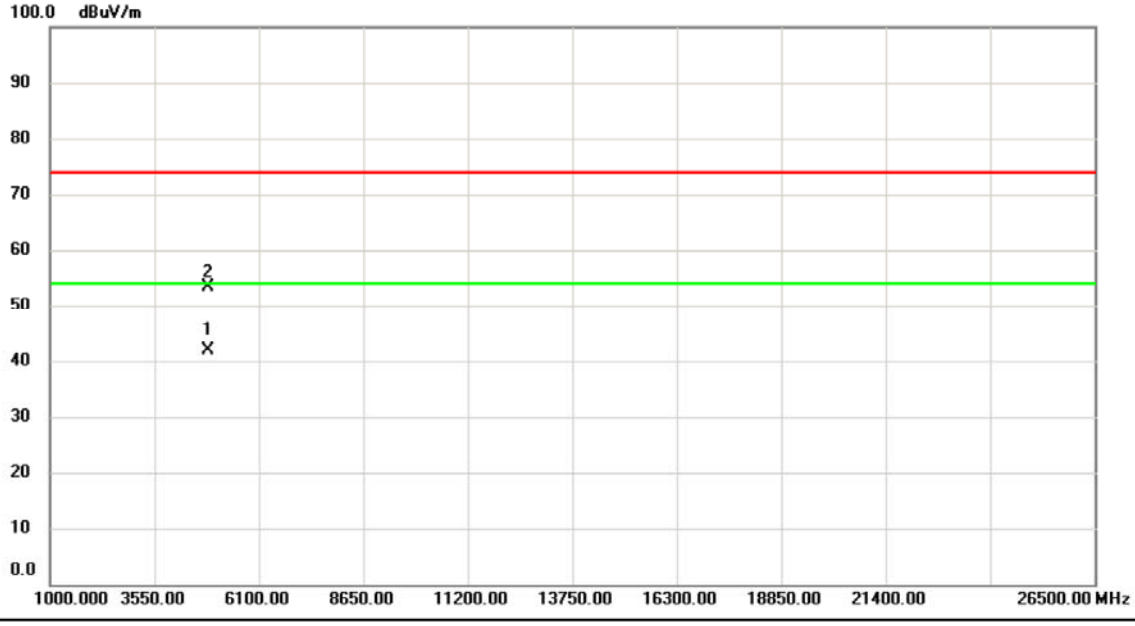


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4872.935	33.79	6.50	40.29	54.00	-13.71	AVG	
2		4875.420	45.50	6.52	52.02	74.00	-21.98	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

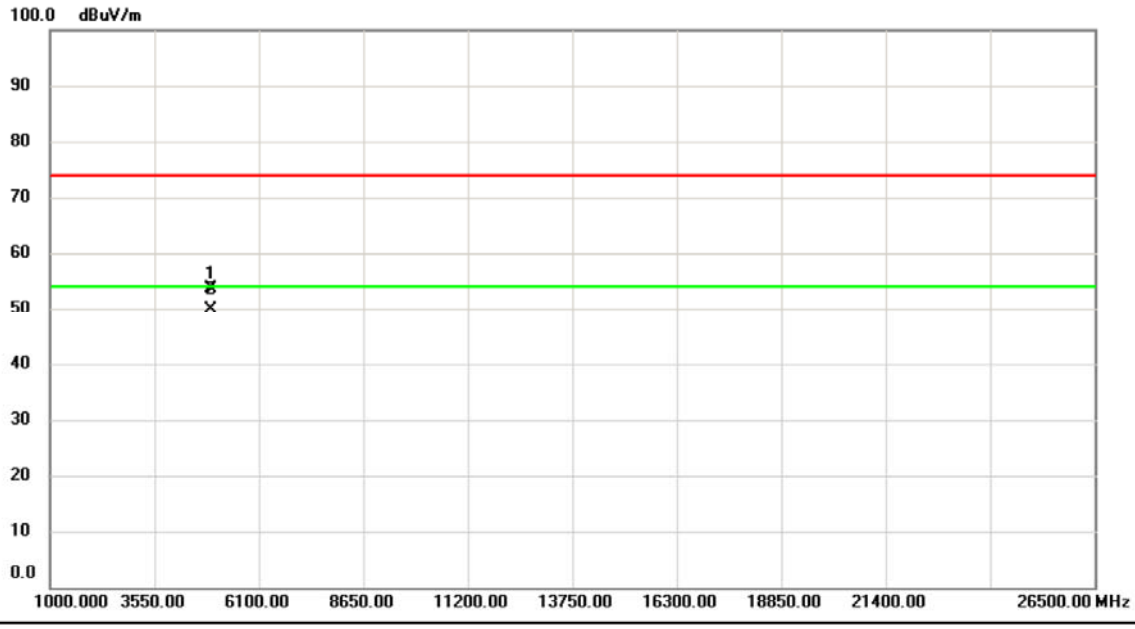


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.905	35.25	6.51	41.76	54.00	-12.24	AVG	
2		4875.375	46.86	6.52	53.38	74.00	-20.62	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

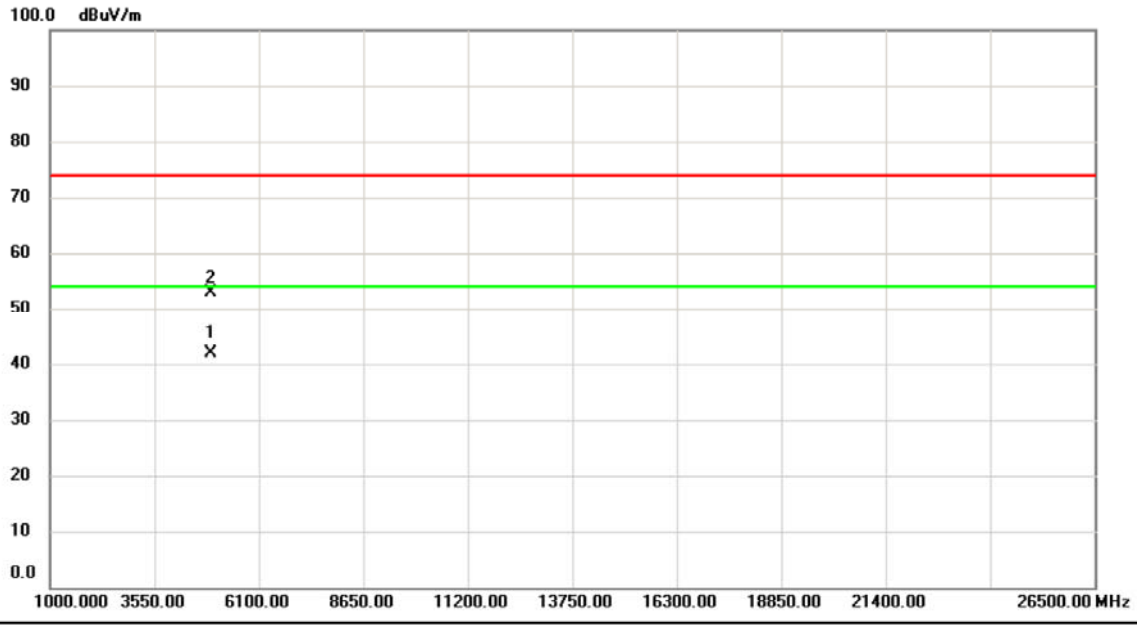


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.765	47.05	6.69	53.74	74.00	-20.26	peak	
2	*	4923.900	43.16	6.69	49.85	54.00	-4.15	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11g CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

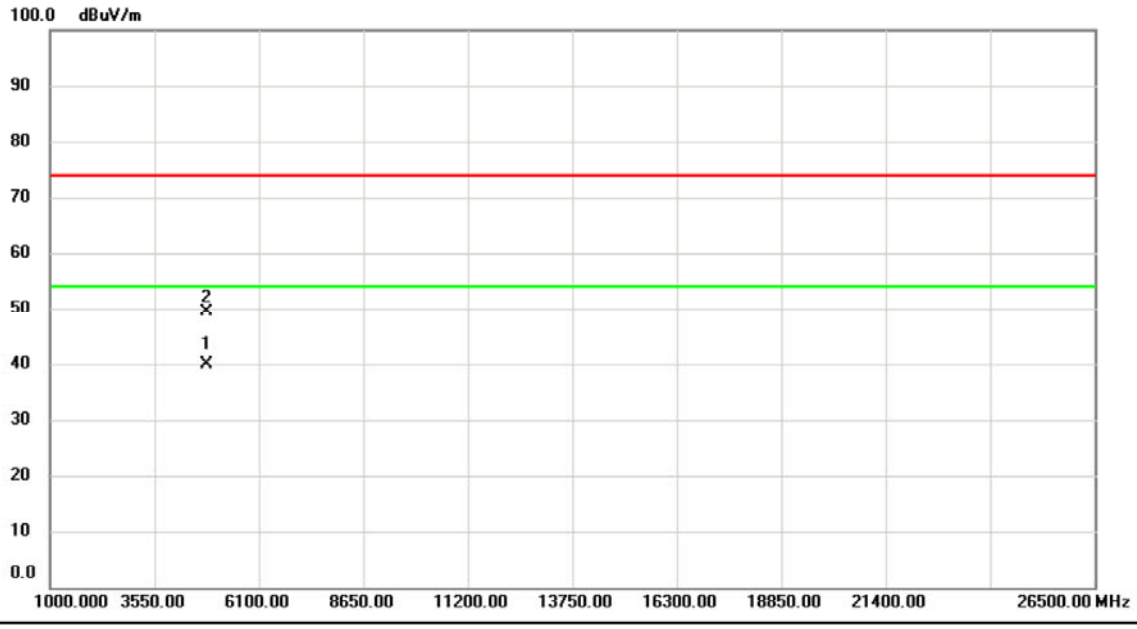


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.050	35.31	6.69	42.00	54.00	-12.00	AVG	
2		4925.165	46.17	6.69	52.86	74.00	-21.14	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

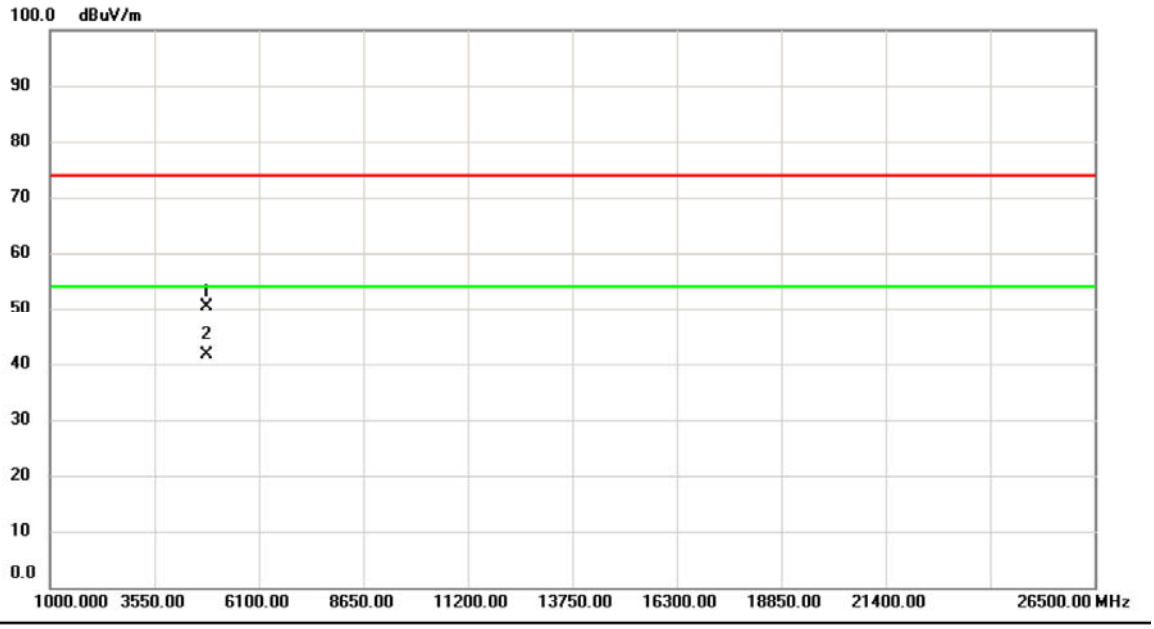


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4822.590	33.73	6.22	39.95	54.00	-14.05	AVG	
2		4822.810	43.12	6.22	49.34	74.00	-24.66	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

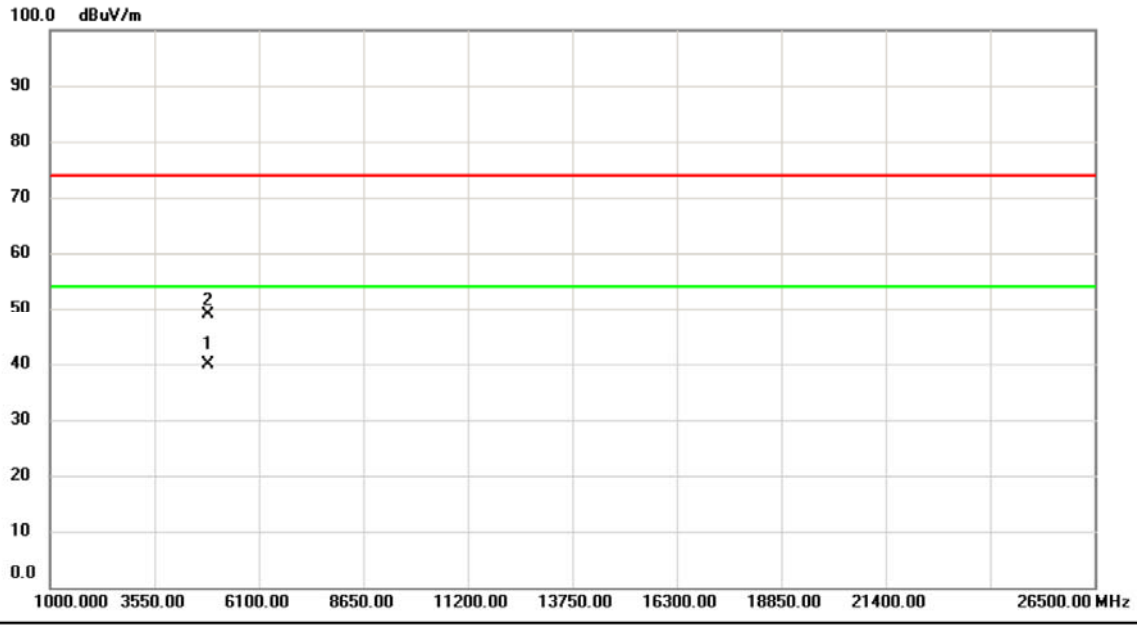


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4822.655	44.26	6.22	50.48	74.00	-23.52	peak	
2	*	4823.065	35.35	6.22	41.57	54.00	-12.43	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

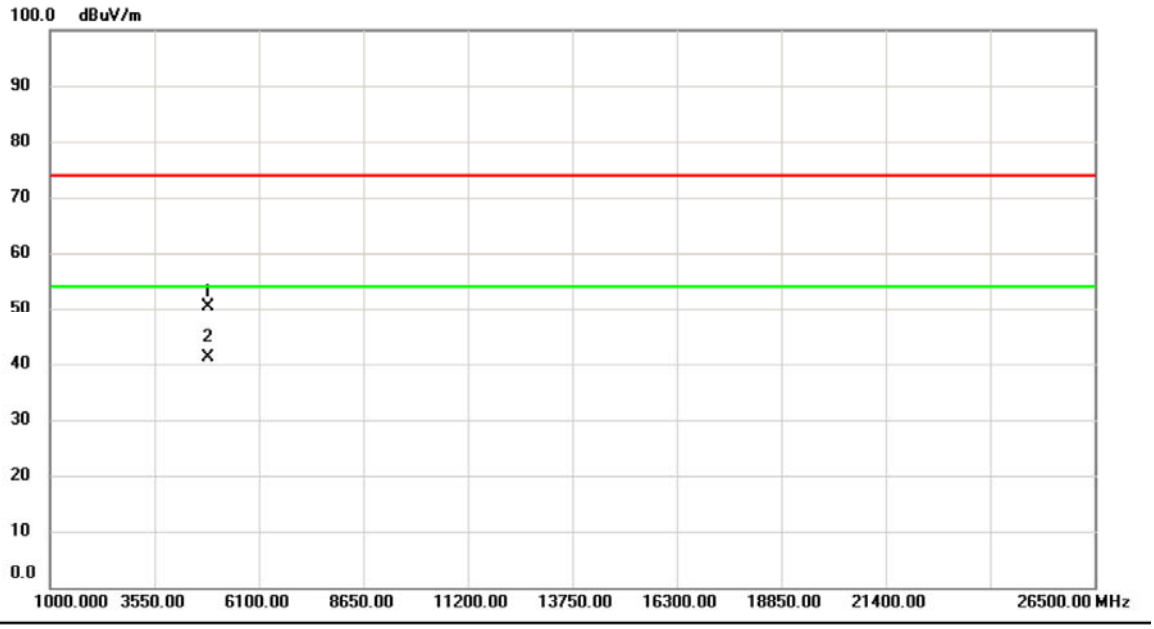


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4872.385	33.35	6.49	39.84	54.00	-14.16	AVG	
2		4875.535	42.28	6.52	48.80	74.00	-25.20	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

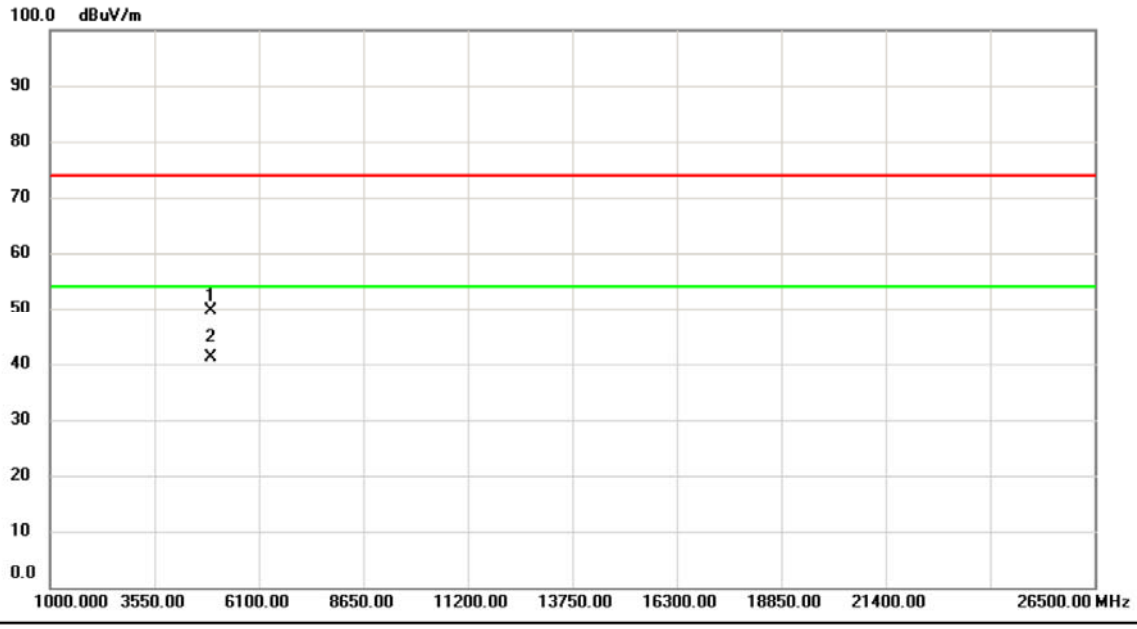


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4872.575	43.76	6.50	50.26	74.00	-23.74	peak	
2	*	4875.350	34.60	6.52	41.12	54.00	-12.88	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

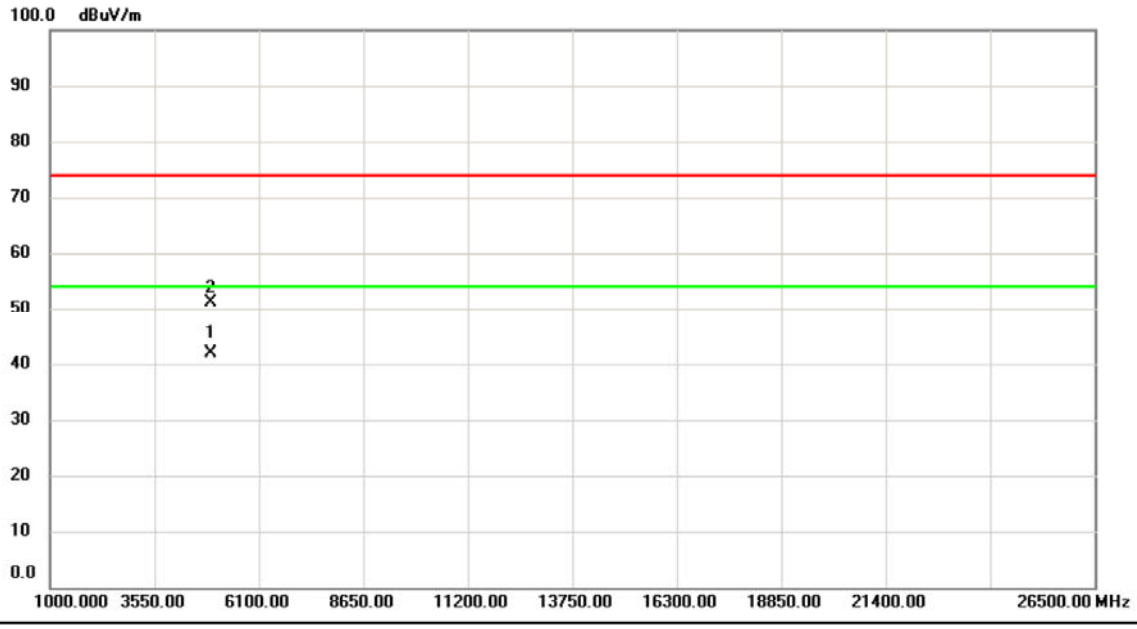


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4922.805	43.00	6.69	49.69	74.00	-24.31	peak	
2	*	4925.540	34.43	6.69	41.12	54.00	-12.88	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT20 CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

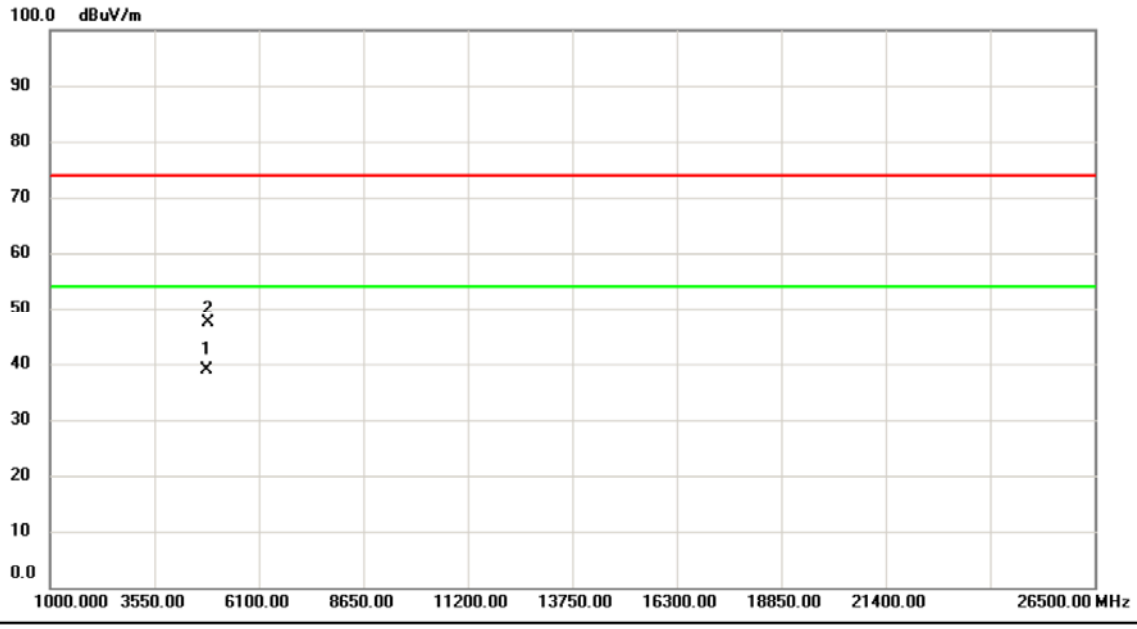


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.855	35.17	6.69	41.86	54.00	-12.14	AVG	
2		4925.565	44.56	6.69	51.25	74.00	-22.75	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH03
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

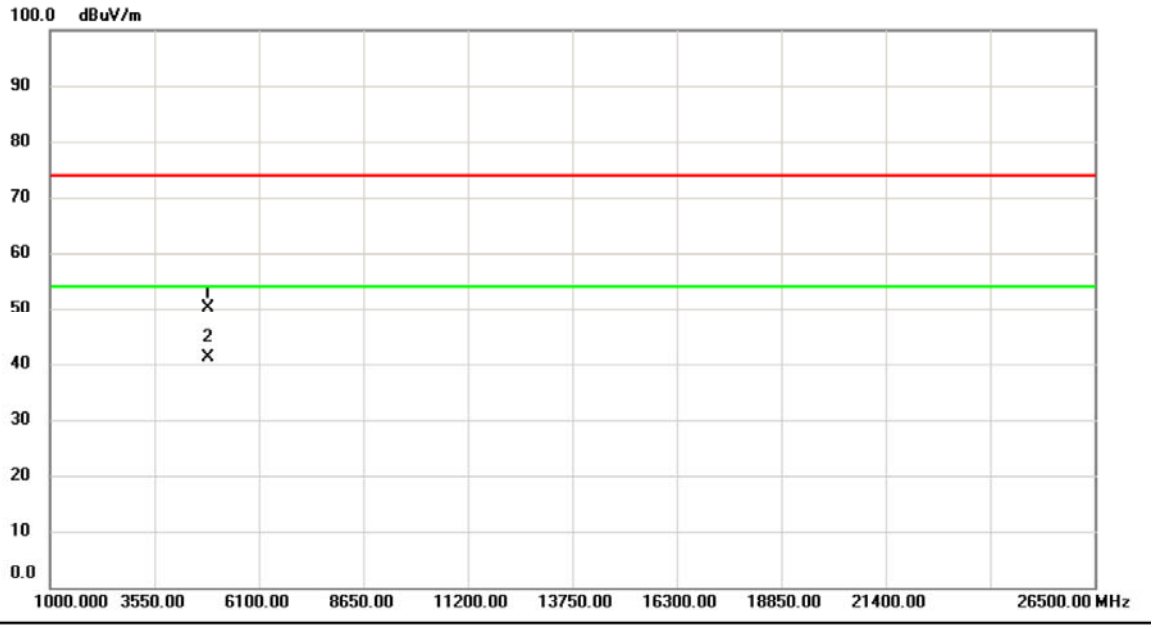


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4841.595	32.60	6.35	38.95	54.00	-15.05	AVG	
2		4843.020	41.02	6.37	47.39	74.00	-26.61	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH03
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

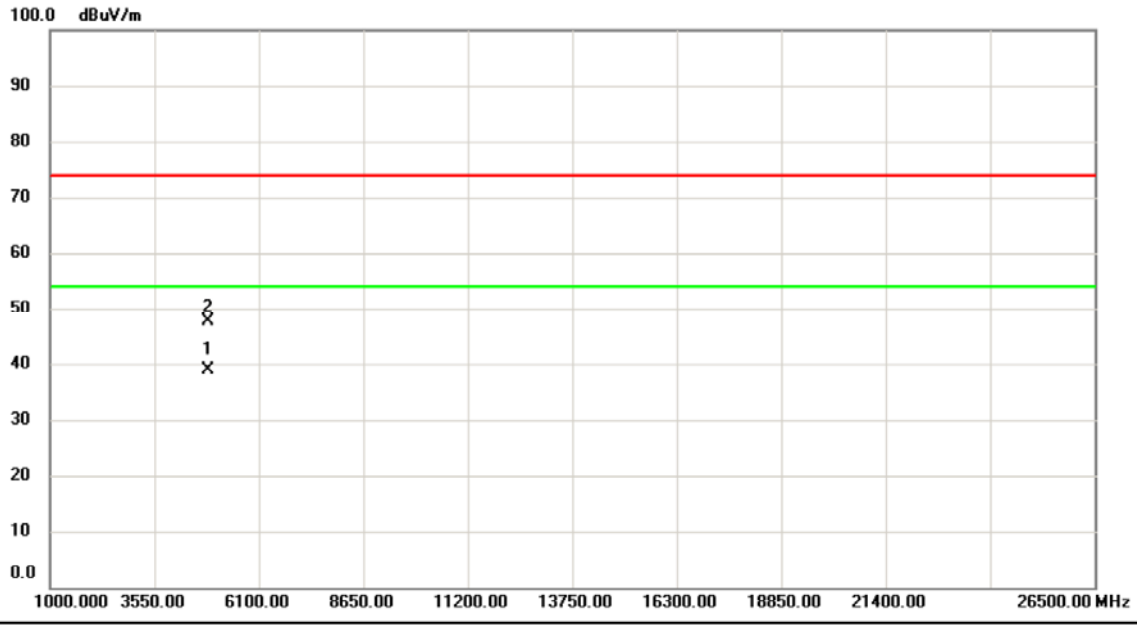


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4842.565	43.64	6.37	50.01	74.00	-23.99	peak	
2	*	4844.535	34.74	6.38	41.12	54.00	-12.88	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

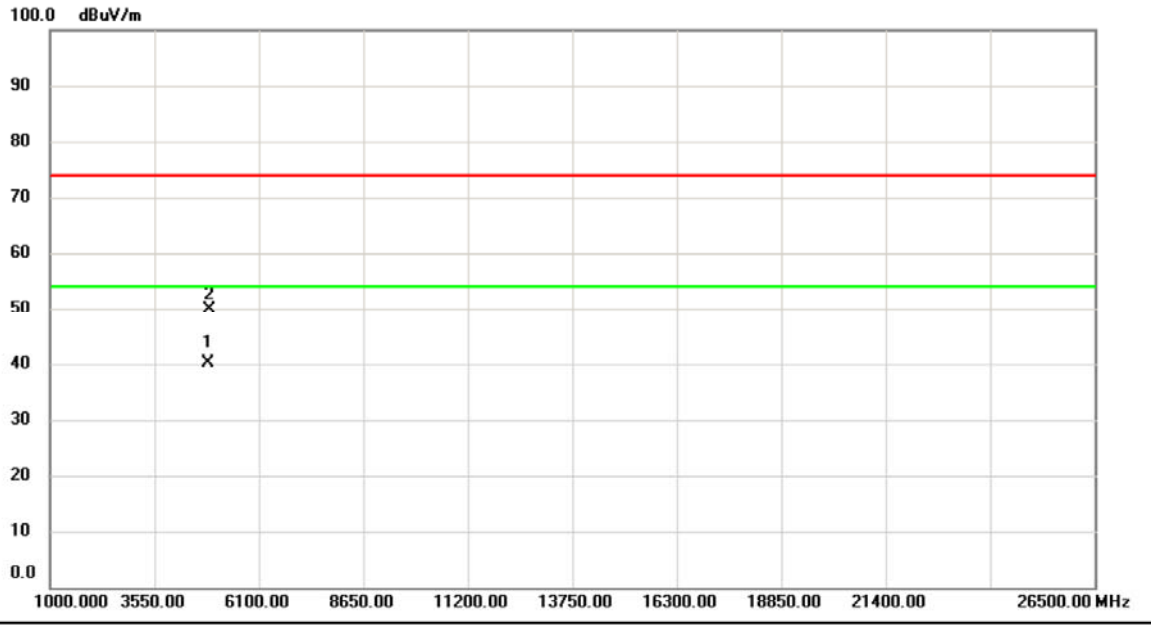


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4871.810	32.49	6.49	38.98	54.00	-15.02	AVG	
2		4874.730	41.19	6.51	47.70	74.00	-26.30	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

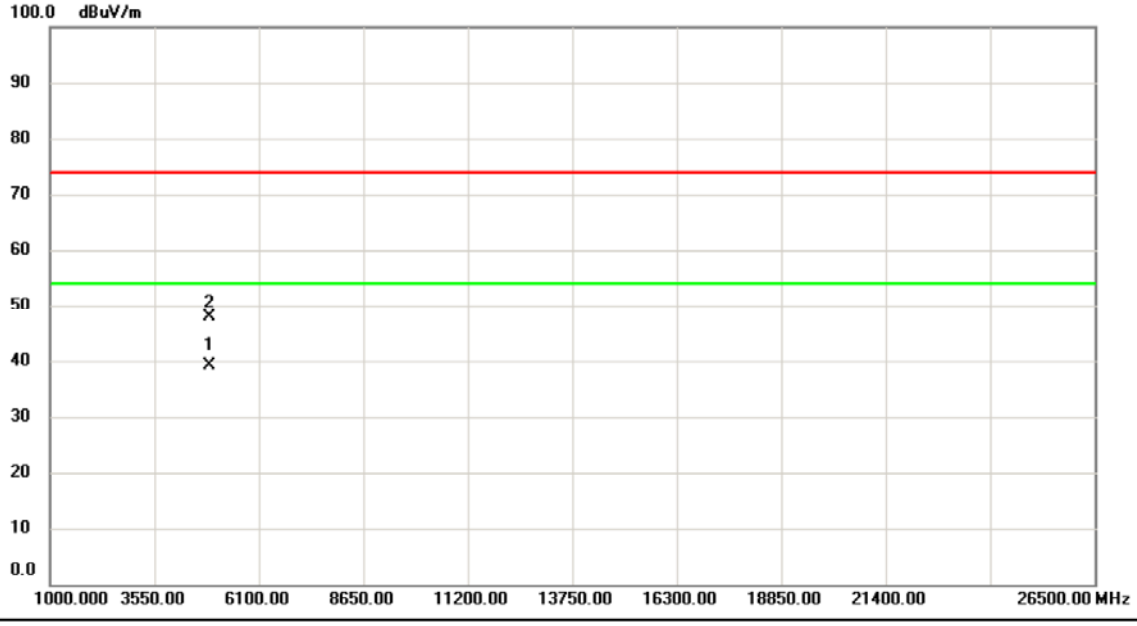


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.960	33.64	6.51	40.15	54.00	-13.85	AVG	
2		4876.370	43.37	6.52	49.89	74.00	-24.11	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH09
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

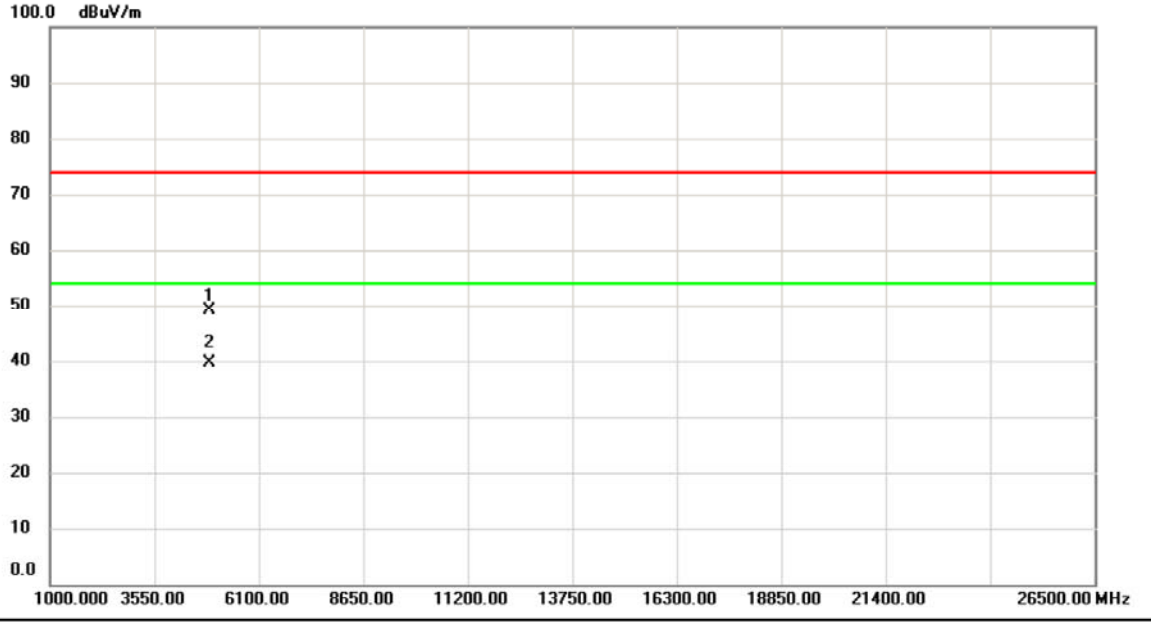


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4902.685	32.42	6.61	39.03	54.00	-14.97	AVG	
2		4905.110	41.13	6.63	47.76	74.00	-26.24	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11n – HT40 CH09
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

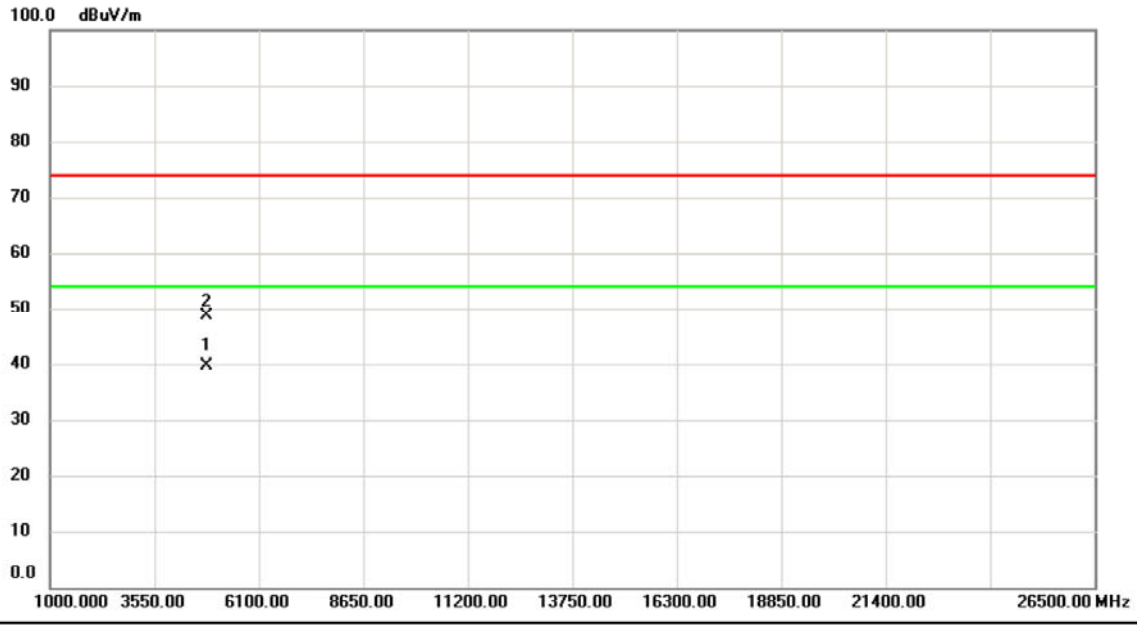


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4902.695	42.59	6.61	49.20	74.00	-24.80	peak	
2	*	4906.275	33.10	6.63	39.73	54.00	-14.27	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

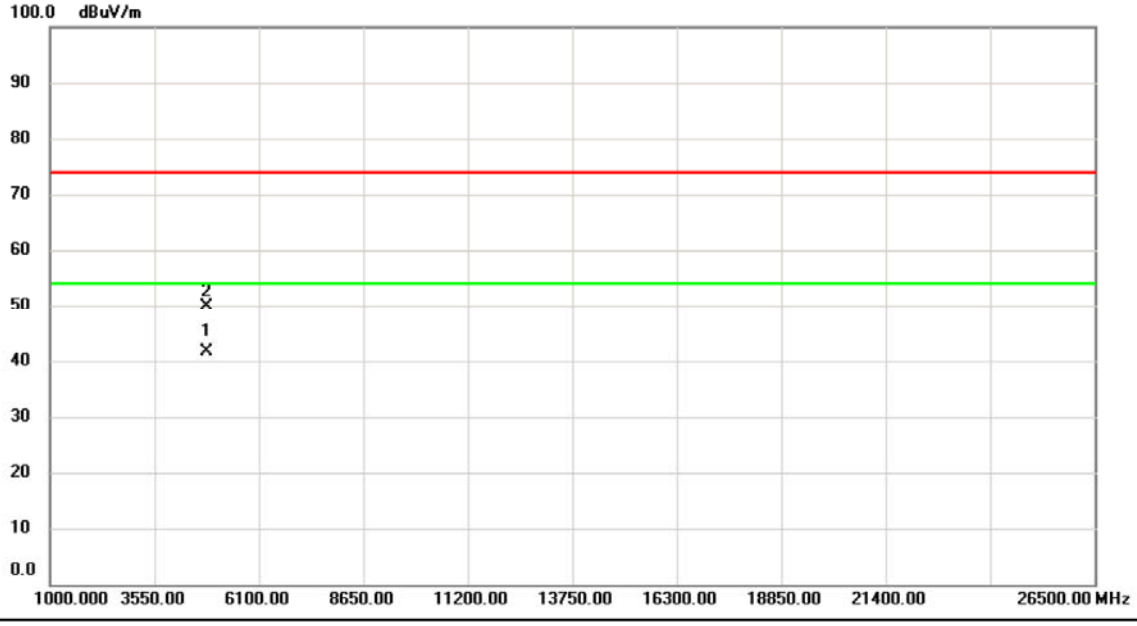


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.945	33.49	6.22	39.71	54.00	-14.29	AVG	
2		4825.170	42.32	6.23	48.55	74.00	-25.45	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH01
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

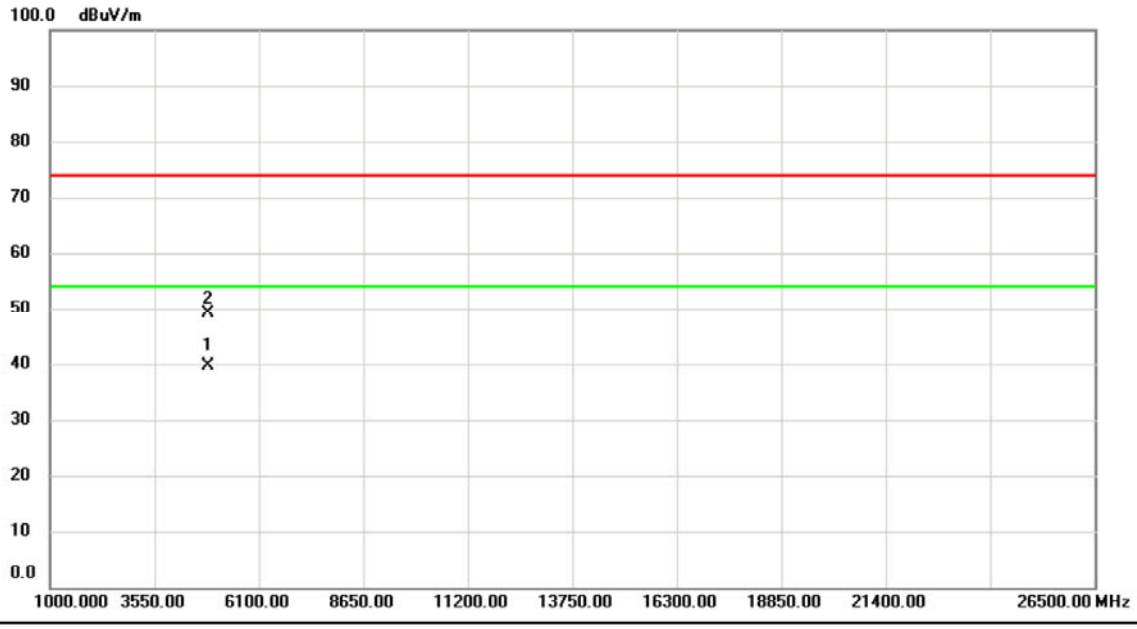


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4822.435	35.43	6.21	41.64	54.00	-12.36	AVG	
2		4822.810	43.62	6.22	49.84	74.00	-24.16	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

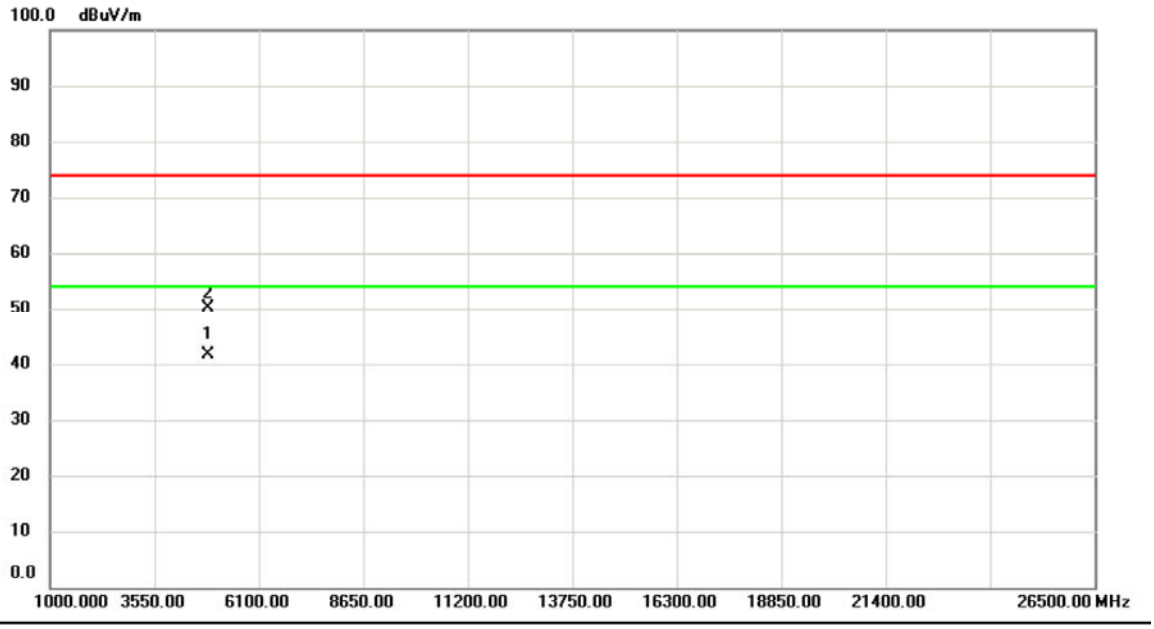


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4822.435	35.43	6.21	41.64	54.00	-12.36	AVG	
2		4822.810	43.62	6.22	49.84	74.00	-24.16	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

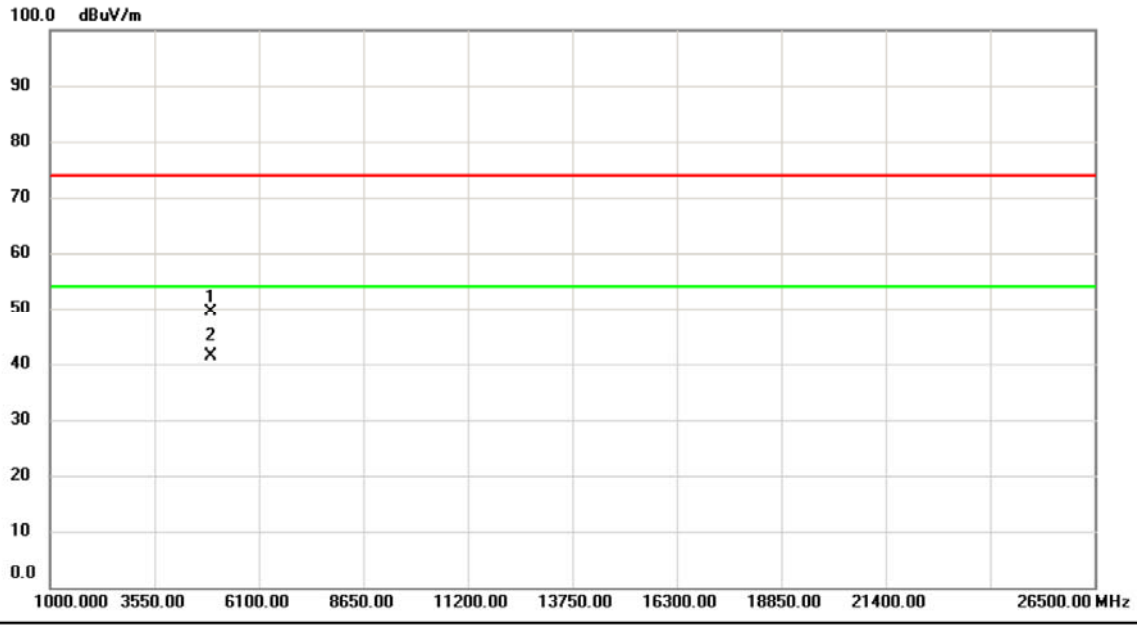


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4872.435	33.19	6.49	39.68	54.00	-14.32	AVG	
2		4872.935	42.68	6.50	49.18	74.00	-24.82	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

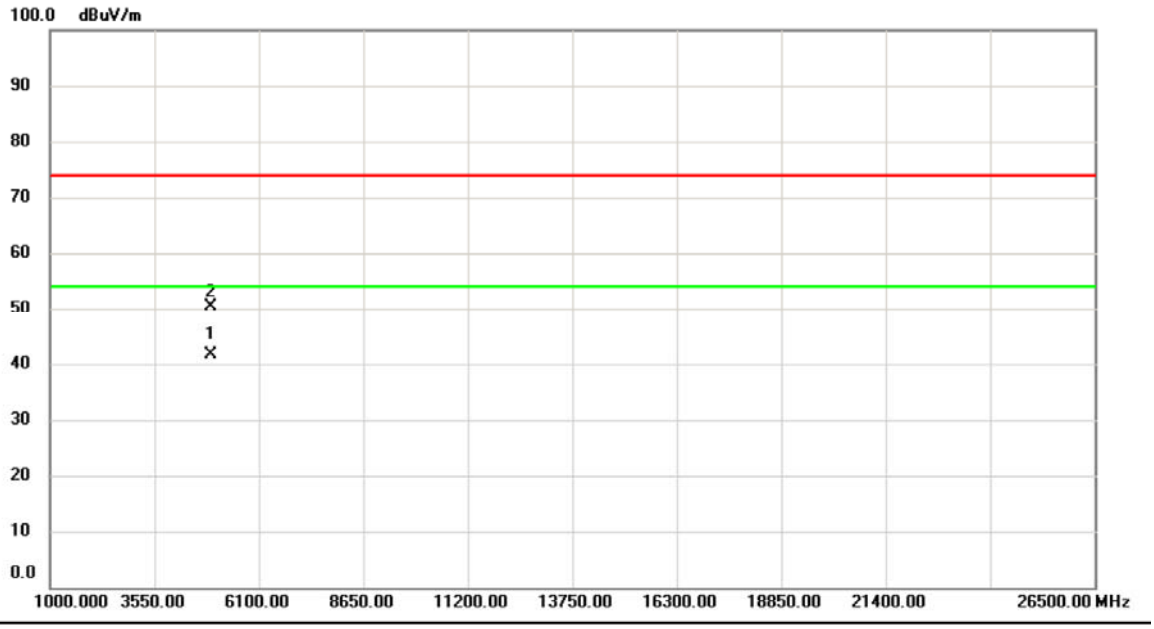


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.145	35.08	6.51	41.59	54.00	-12.41	AVG	
2		4873.405	43.57	6.51	50.08	74.00	-23.92	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE20 CH11
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

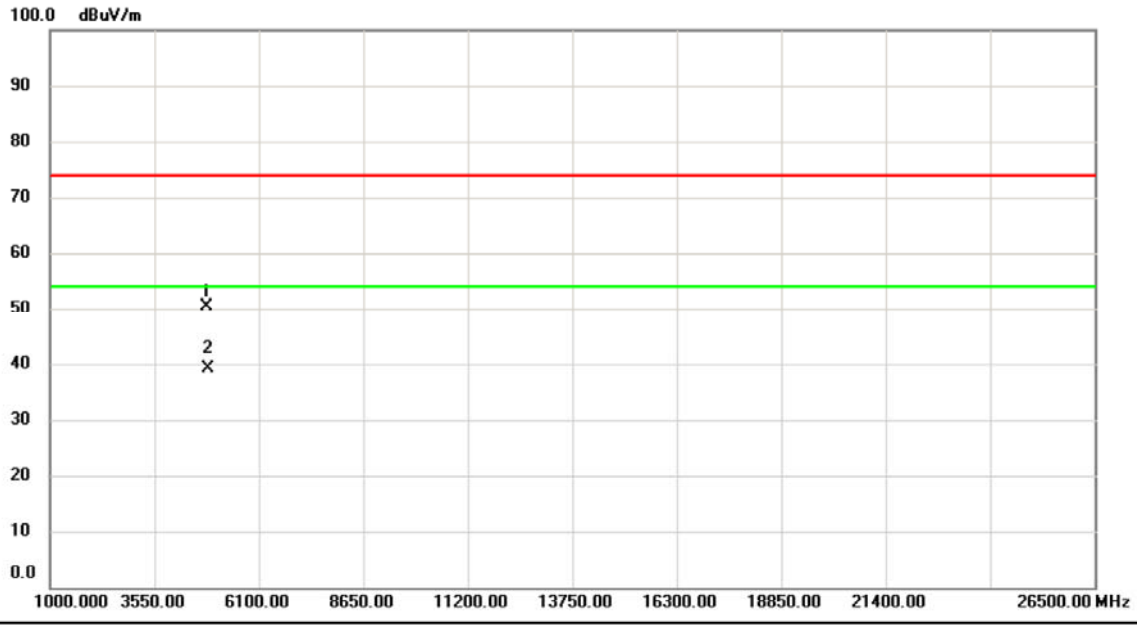


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.370	42.67	6.69	49.36	74.00	-24.64	peak	
2	*	4926.290	34.57	6.69	41.26	54.00	-12.74	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH03
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

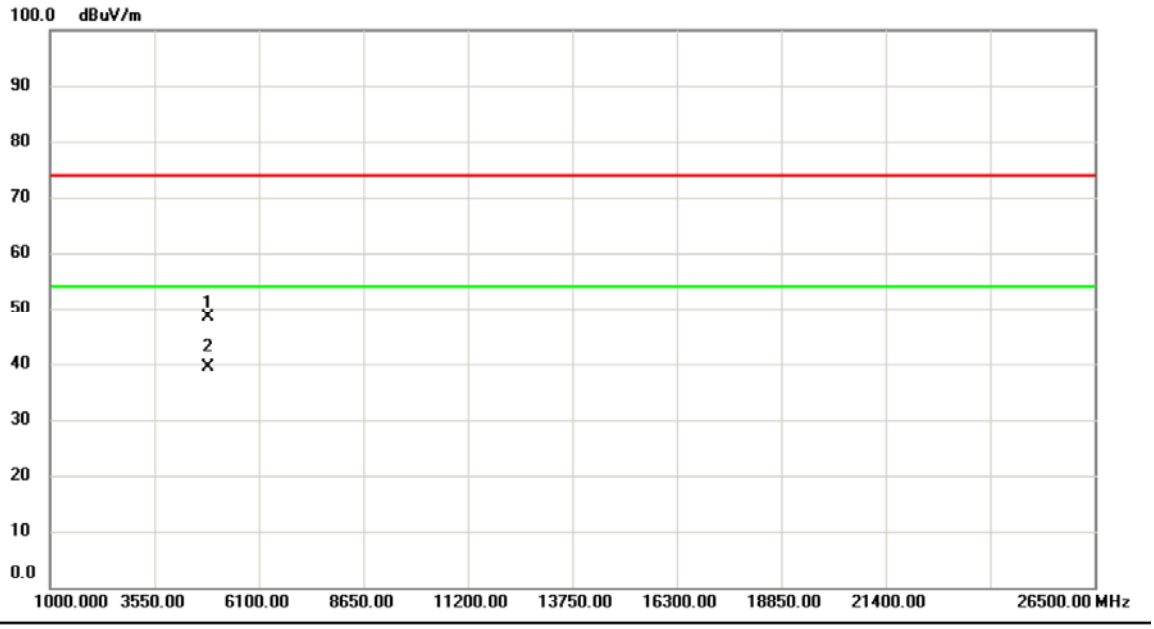


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.155	34.97	6.69	41.66	54.00	-12.34	AVG	
2		4924.445	43.61	6.69	50.30	74.00	-23.70	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH03
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

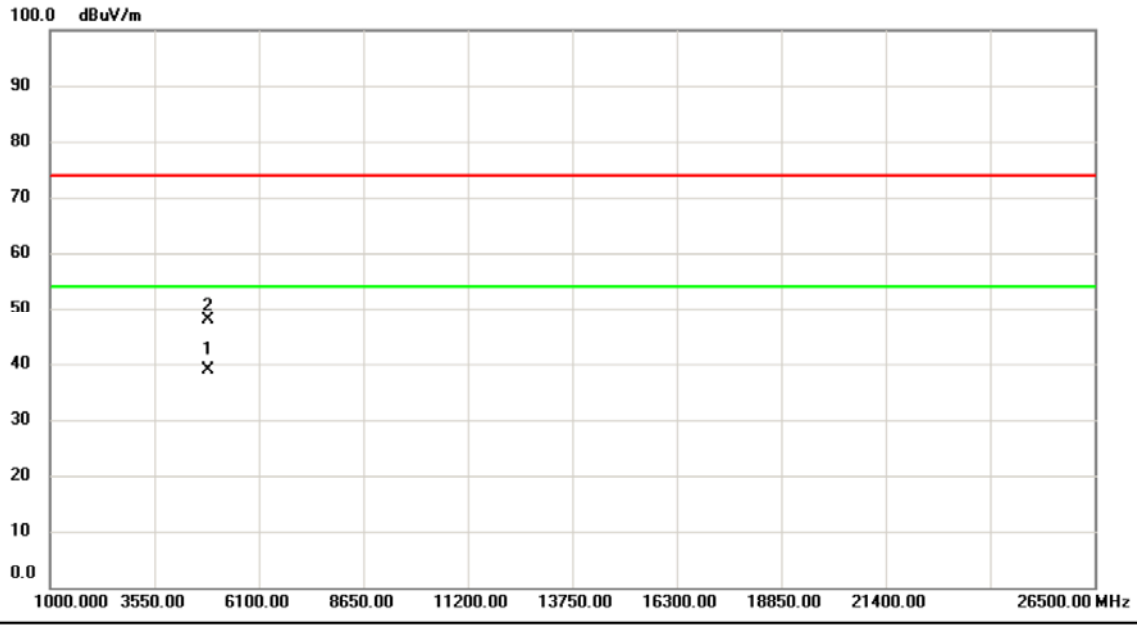


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4841.665	44.07	6.35	50.42	74.00	-23.58	peak	
2	*	4842.865	32.83	6.37	39.20	54.00	-14.80	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

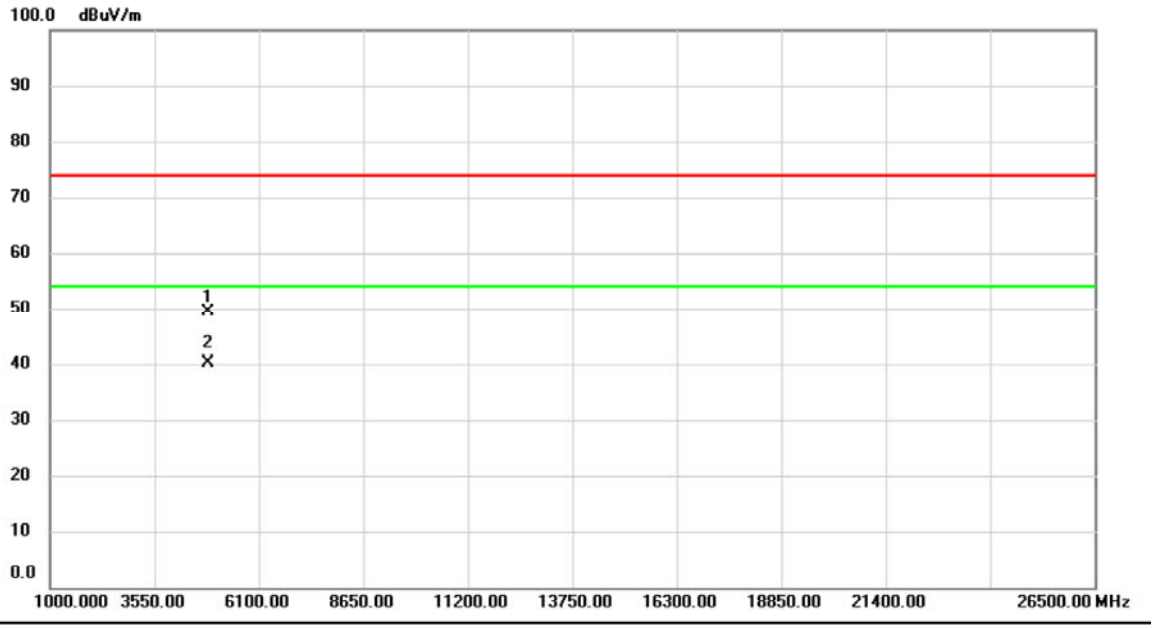


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4846.065	42.07	6.39	48.46	74.00	-25.54	peak	
2	*	4846.265	32.91	6.39	39.30	54.00	-14.70	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH06
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

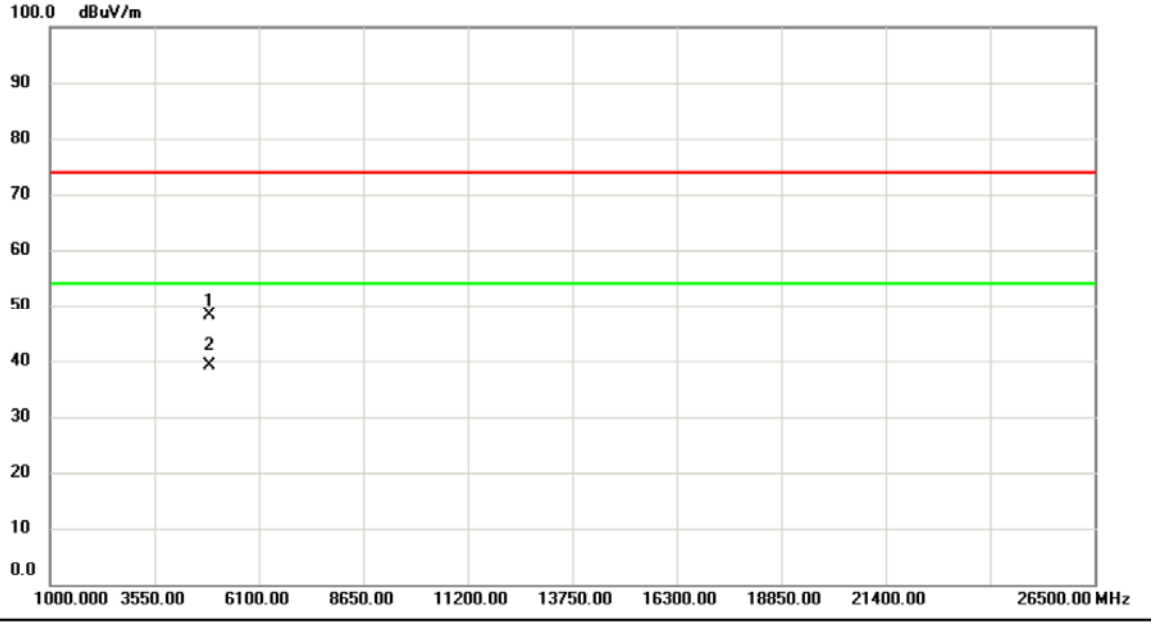


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4871.765	32.30	6.49	38.79	54.00	-15.21	AVG	
2		4874.470	41.34	6.51	47.85	74.00	-26.15	peak	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH09
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

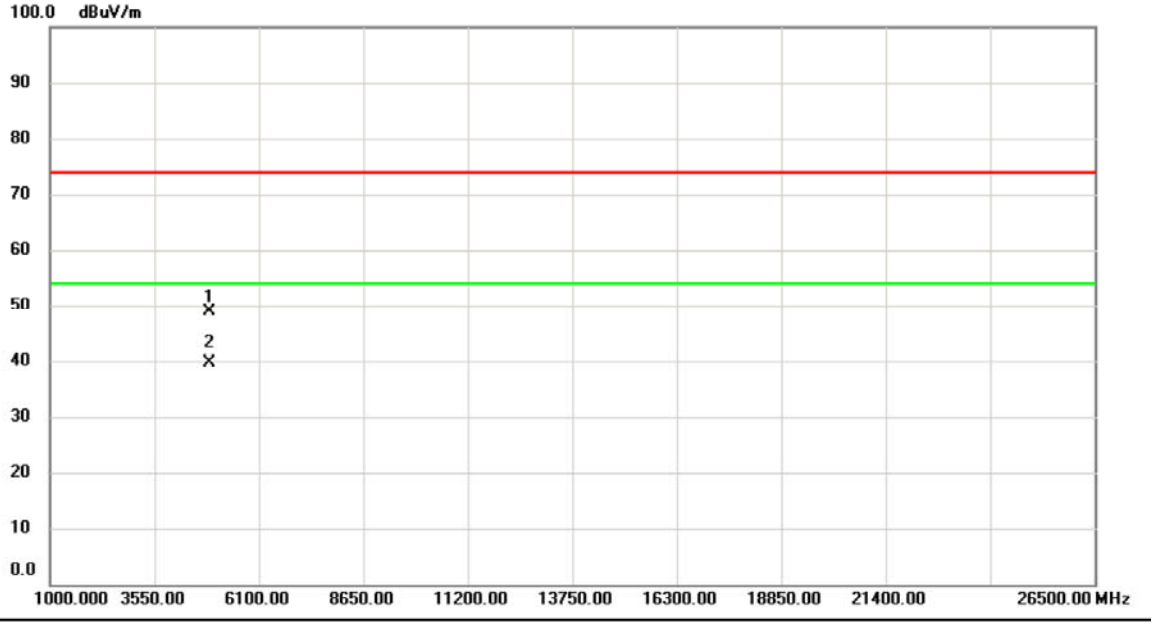


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4871.975	43.01	6.49	49.50	74.00	-24.50	peak	
2	*	4873.655	33.58	6.51	40.09	54.00	-13.91	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	802.11ax – HE40 CH09
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical

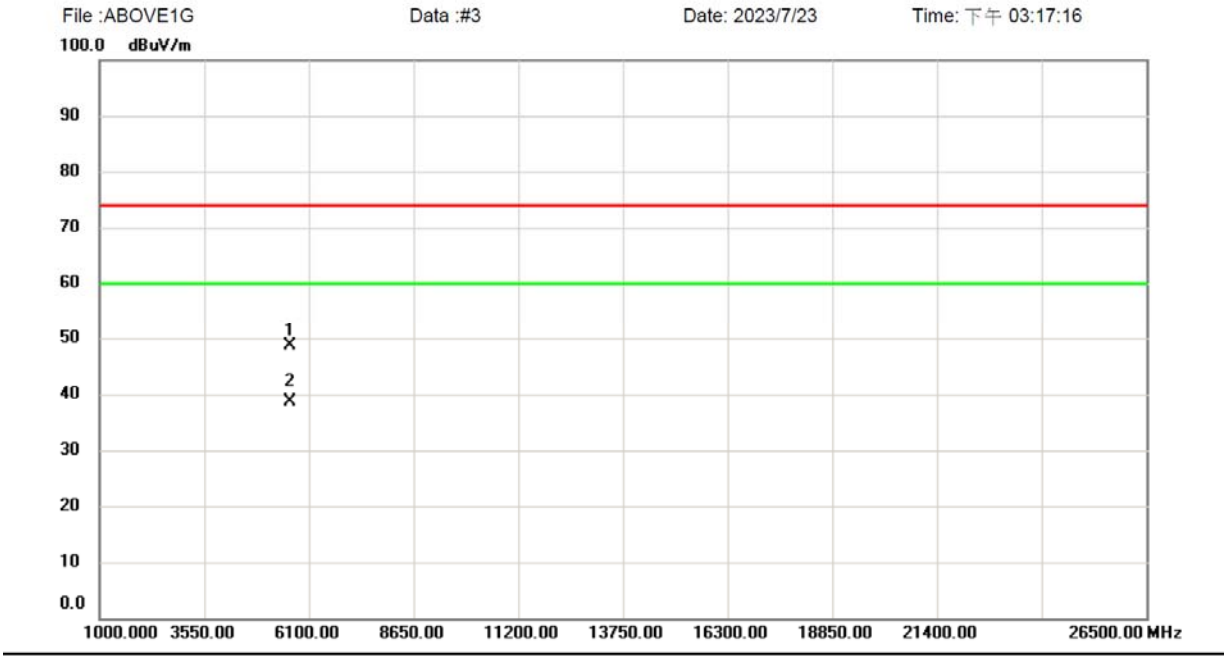


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4905.175	42.33	6.63	48.96	74.00	-25.04	peak	
2	*	4905.250	33.01	6.63	39.64	54.00	-14.36	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	Standby
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Horizontal

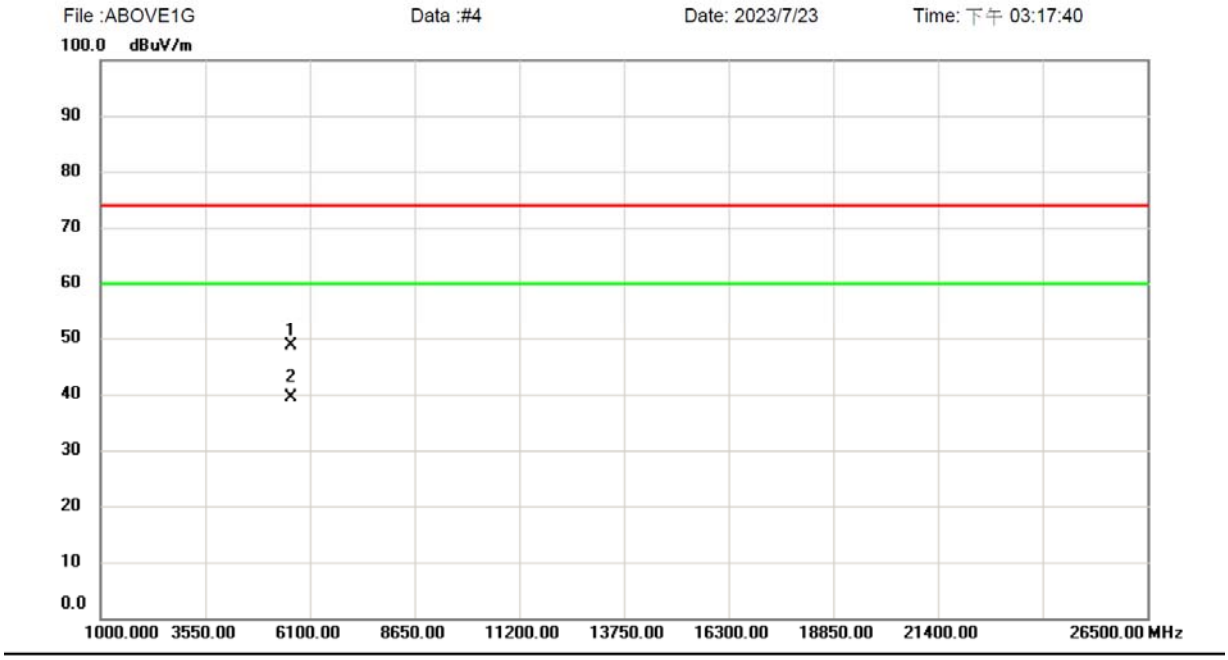


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5641.000	41.11	7.58	48.69	74.00	-25.31	peak	
2	*	5641.000	31.09	7.58	38.67	60.00	-21.33	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

Temperature:	27 °C	Humidity:	76 %RH
Frequency Range:	1 ~ 25 GHz	Tested Mode:	Standby
Detector Type:	PK. and AV.	IF Bandwidth:	1 MHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 22, 2023

Antenna Polarization：Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5641.000	40.95	7.58	48.53	74.00	-25.47	peak	
2	*	5641.000	31.68	7.58	39.26	60.00	-20.74	AVG	

NOTE:
1. Measurement uncertainty is 4.04 dB.
2. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field stregth of fundamental frequency.

4.3 BANDWIDTH TEST

4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247 (a)(2). The minimum 6dB bandwidth shall be at least 500 kHz.

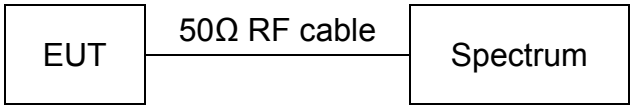
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test：

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

NOTE： The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



4.3.4 TEST PROCEDURE

The EUT was operated in continuous transmission mode or any specific channel.

Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

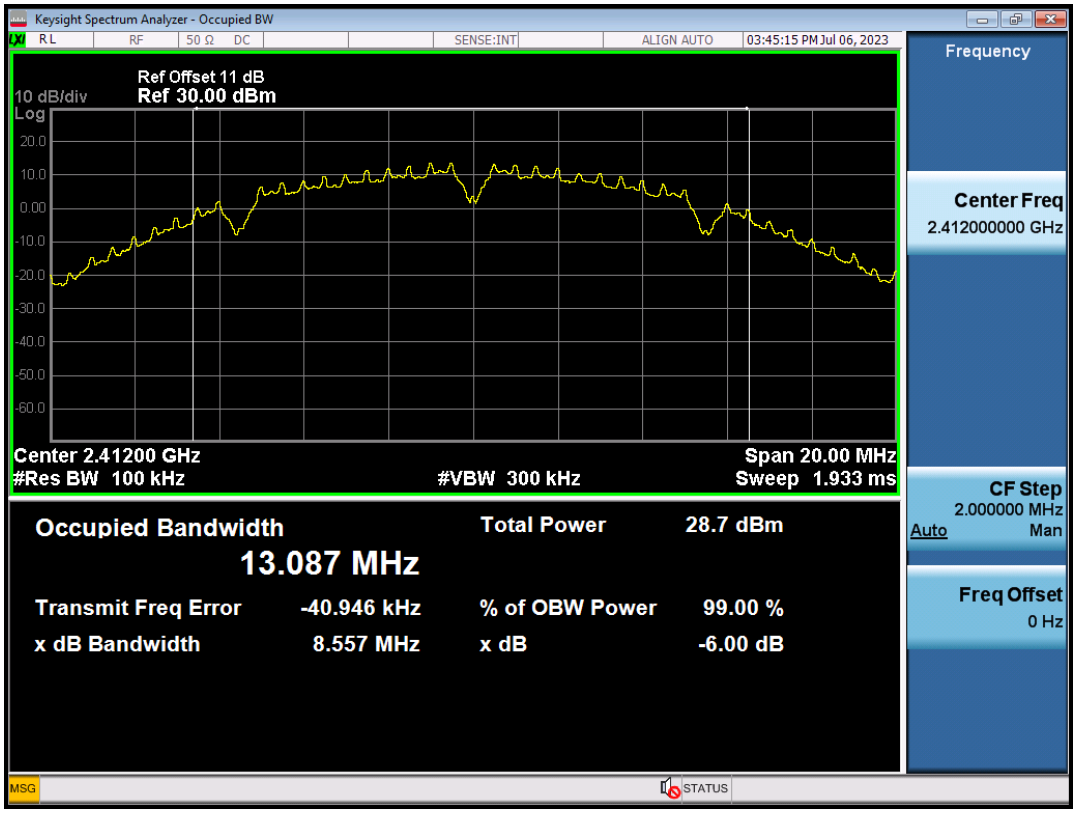
1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.

4.3.6 TEST RESULT

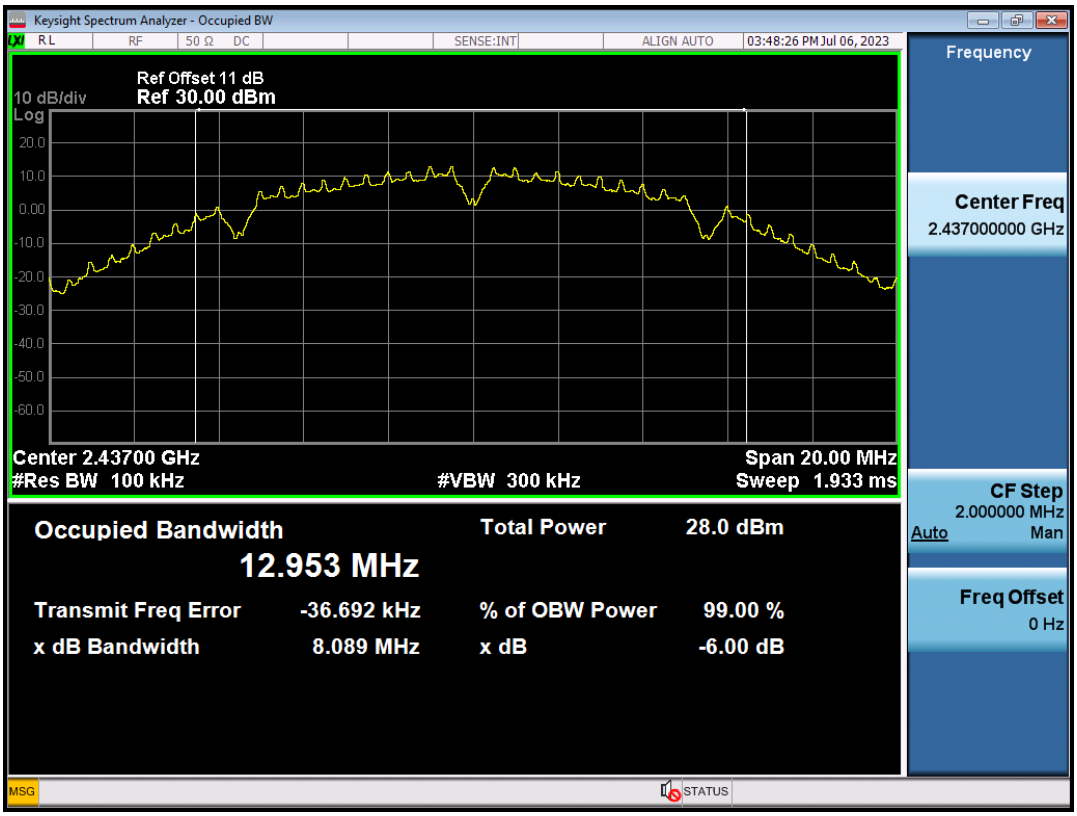
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11b
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH01	2412	8.557	0.5
CH06	2437	8.089	0.5
CH11	2462	8.080	0.5

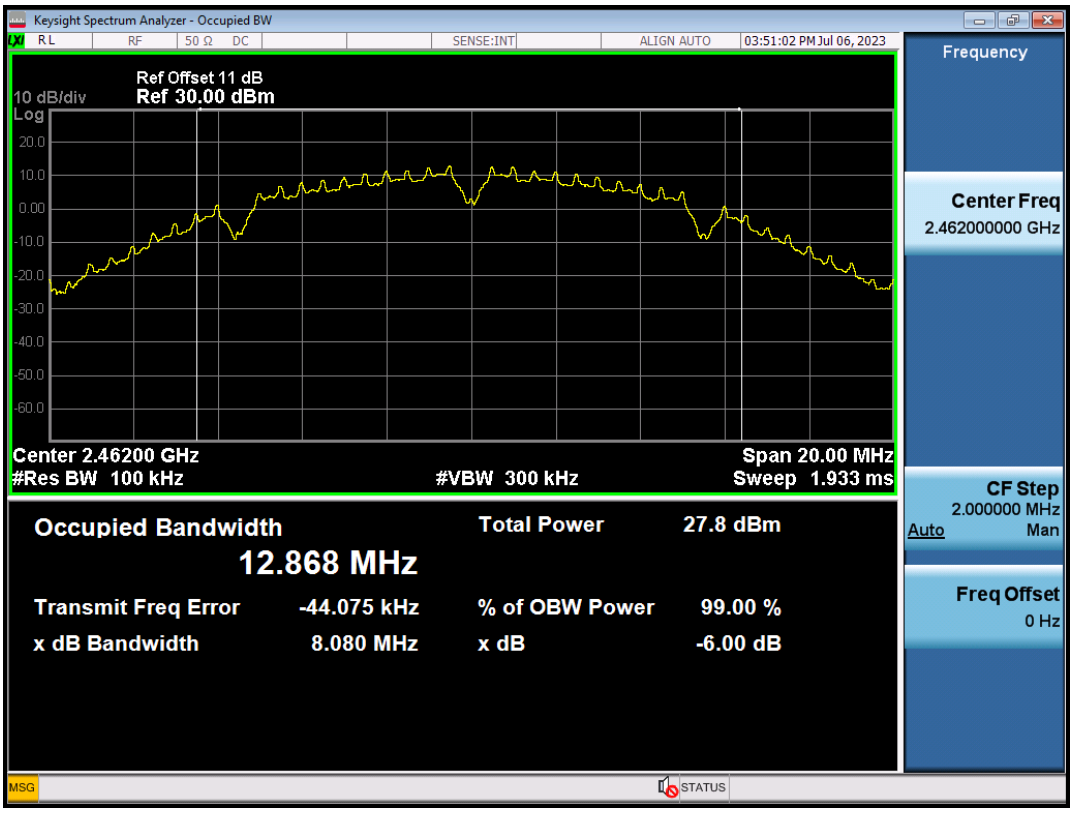
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:48:26 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
12.953 MHz
Total Power
28.0 dBm
Transmit Freq Error
-36.692 kHz
% of OBW Power
99.00 %
x dB Bandwidth
8.089 MHz
x dB
-6.00 dB
Center Freq
2.437000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

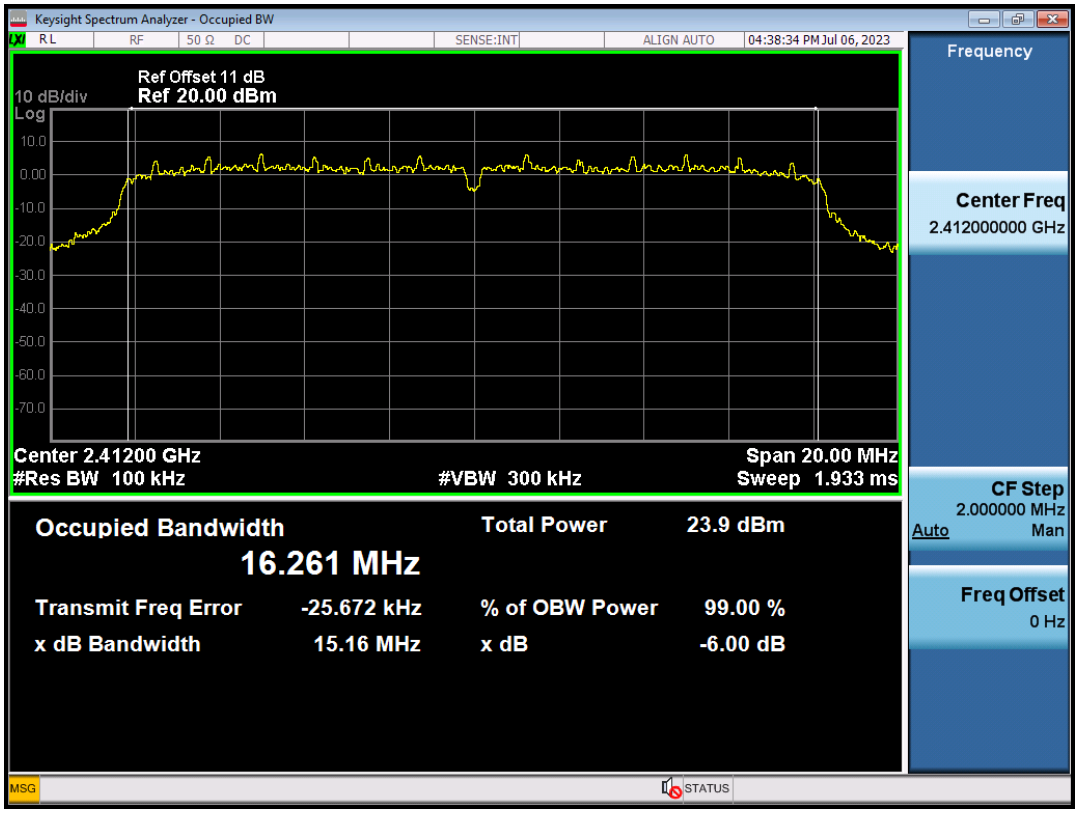
CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:51:02 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
12.868 MHz
Total Power
27.8 dBm
Transmit Freq Error
-44.075 kHz
% of OBW Power
99.00 %
x dB Bandwidth
8.080 MHz
x dB
-6.00 dB
Center Freq
2.462000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

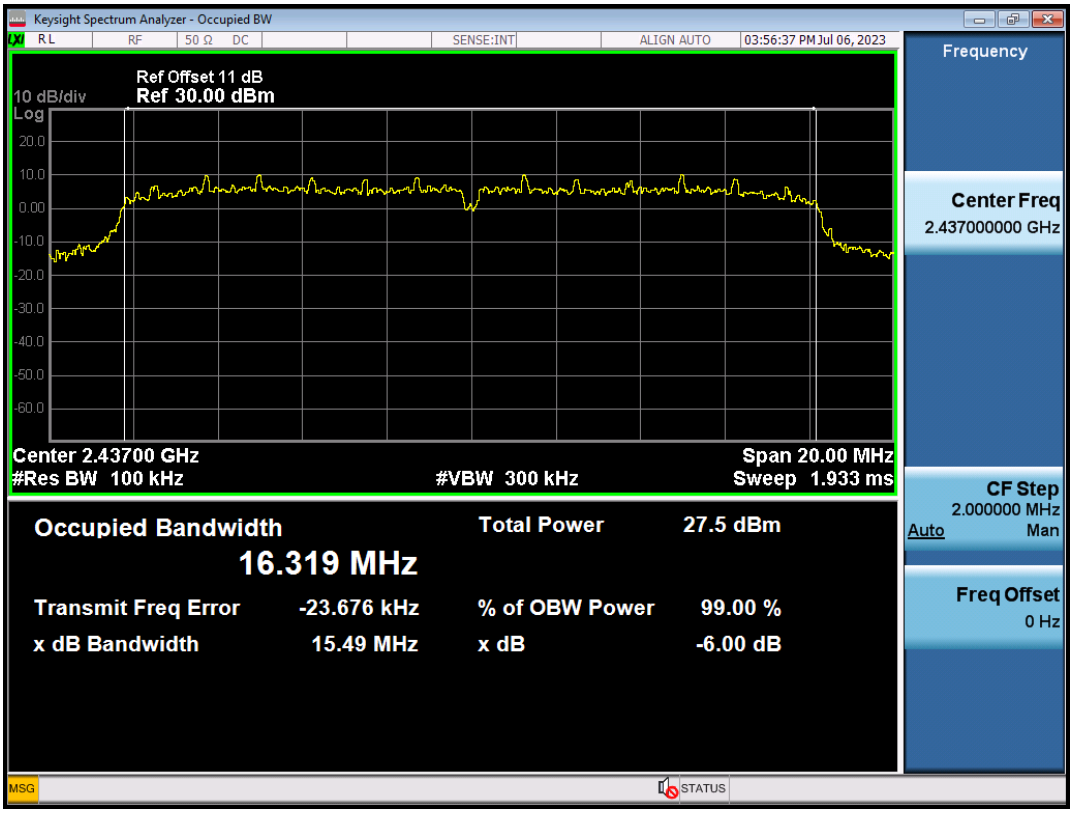
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11g
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH01	2412	15.16	0.5
CH06	2437	15.49	0.5
CH11	2462	15.16	0.5

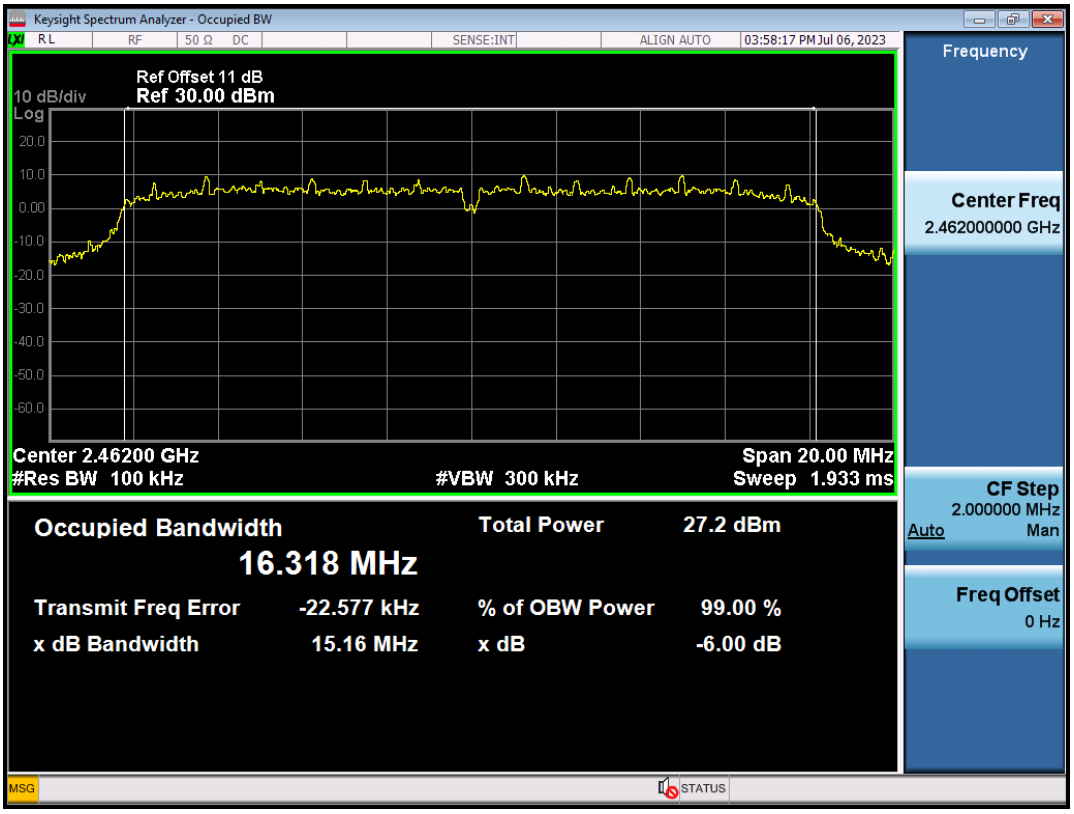
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:56:37 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
16.319 MHz
Total Power
27.5 dBm
Transmit Freq Error
-23.676 kHz
% of OBW Power
99.00 %
x dB Bandwidth
15.49 MHz
x dB
-6.00 dB
Center Freq
2.437000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

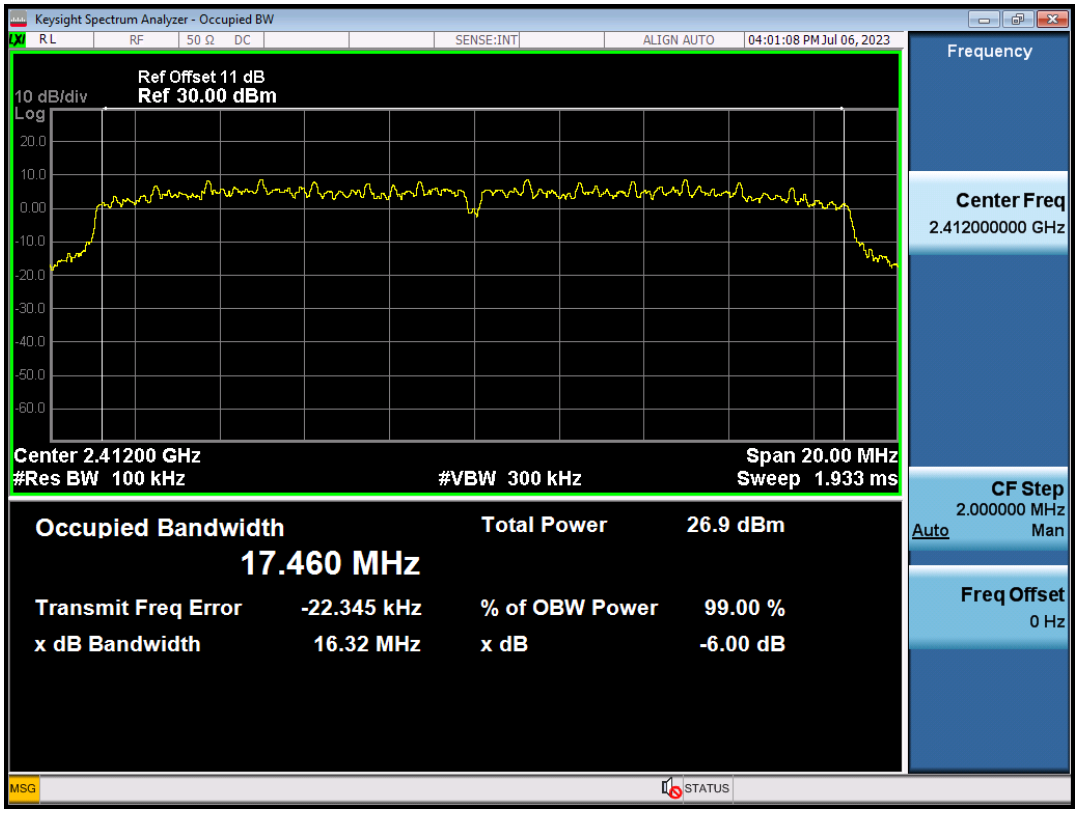
CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:58:17 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
16.318 MHz
Total Power
27.2 dBm
Transmit Freq Error
-22.577 kHz
% of OBW Power
99.00 %
x dB Bandwidth
15.16 MHz
x dB
-6.00 dB
Center Freq
2.462000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

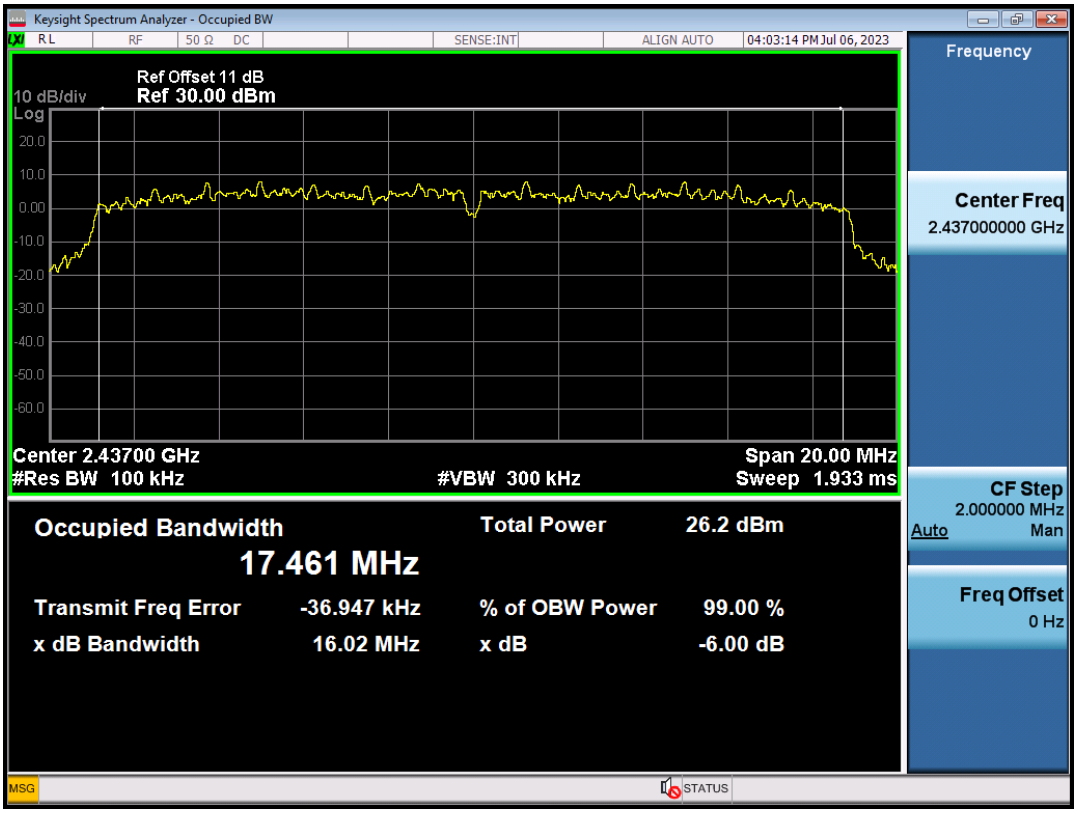
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11n – HT20
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH01	2412	16.32	0.5
CH06	2437	16.02	0.5
CH11	2462	16.60	0.5

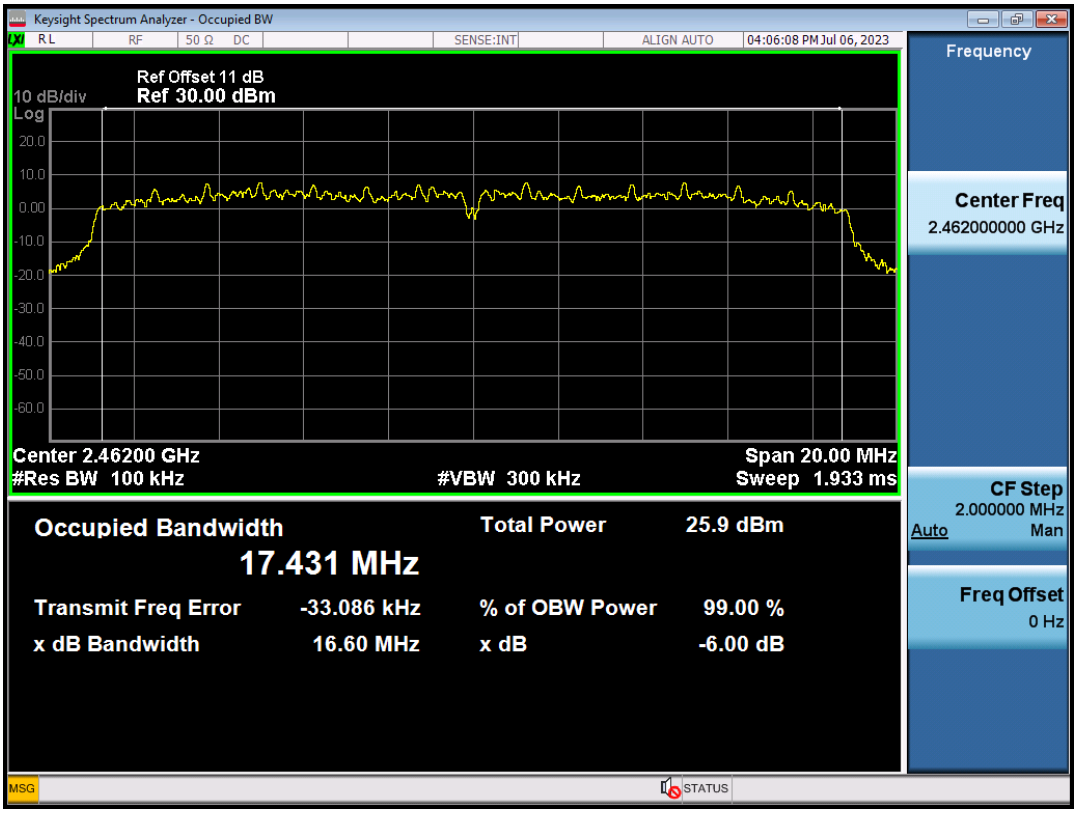
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:03:14 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
17.461 MHz
Total Power
26.2 dBm
Transmit Freq Error
-36.947 kHz
% of OBW Power
99.00 %
x dB Bandwidth
16.02 MHz
x dB
-6.00 dB
Center Freq
2.437000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

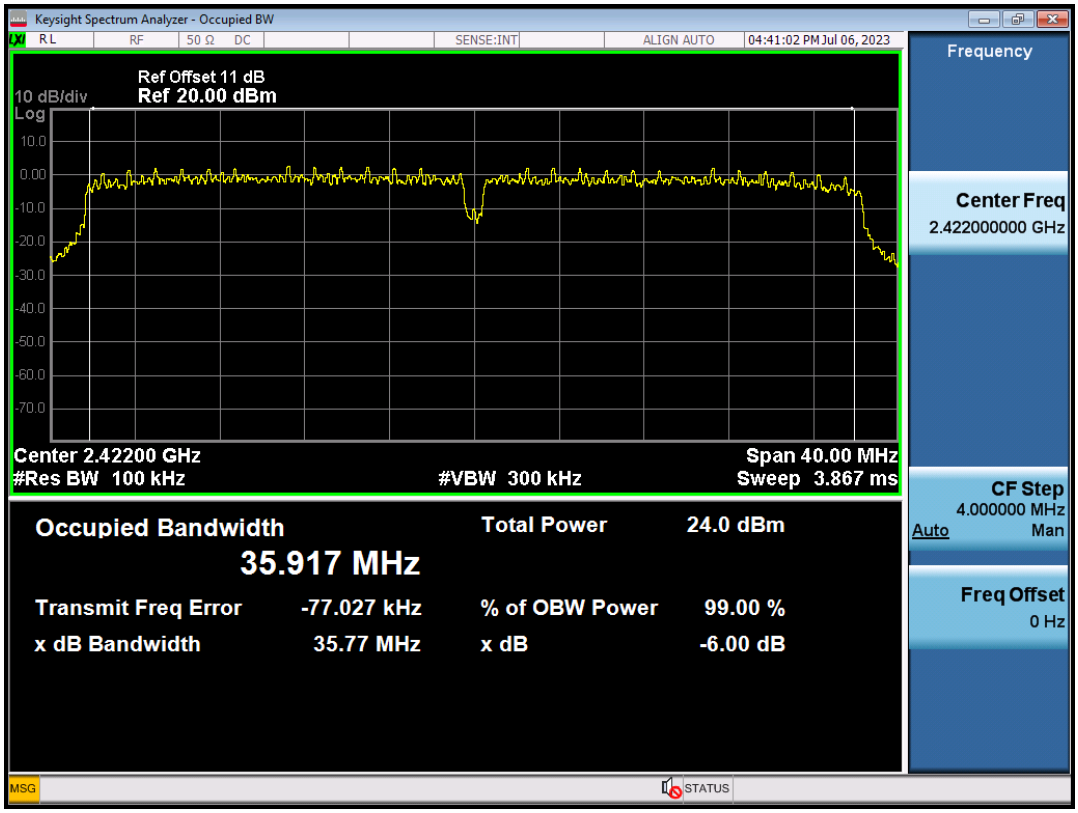
CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:06:08 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
17.431 MHz
Total Power
25.9 dBm
Transmit Freq Error
-33.086 kHz
% of OBW Power
99.00 %
x dB Bandwidth
16.60 MHz
x dB
-6.00 dB
Center Freq
2.462000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

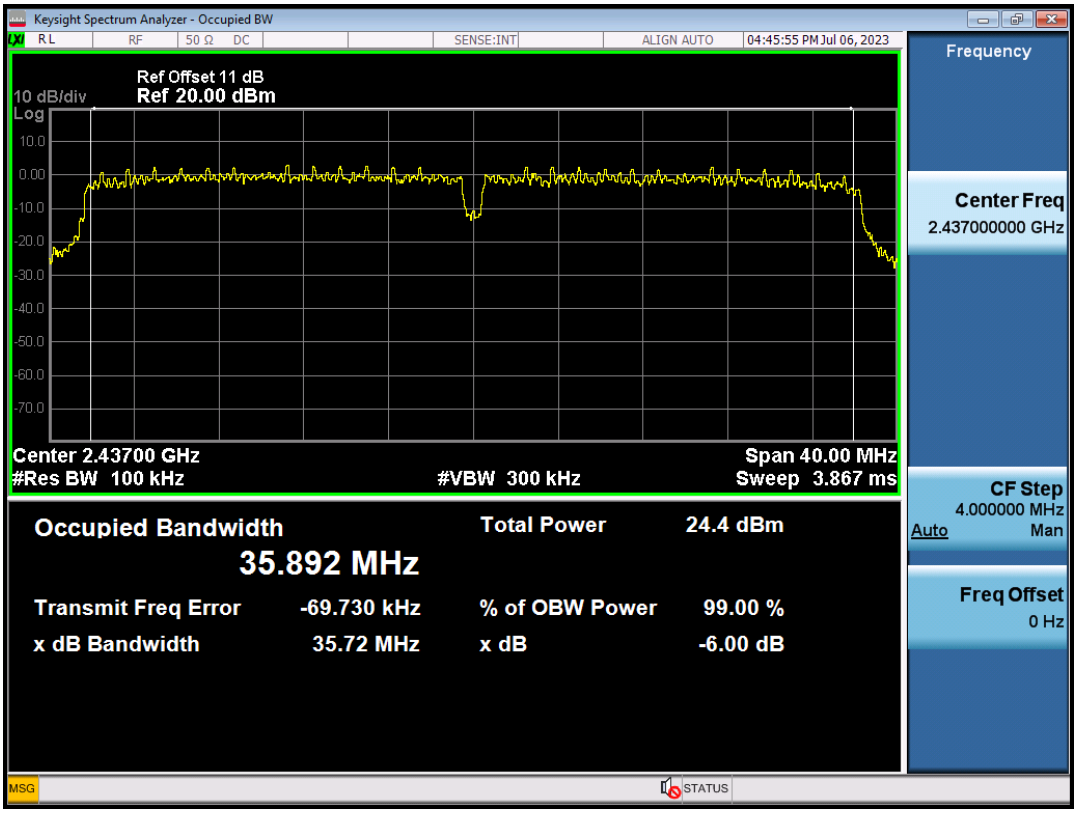
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11n – HT40
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH03	2422	35.77	0.5
CH06	2437	35.72	0.5
CH09	2452	35.44	0.5

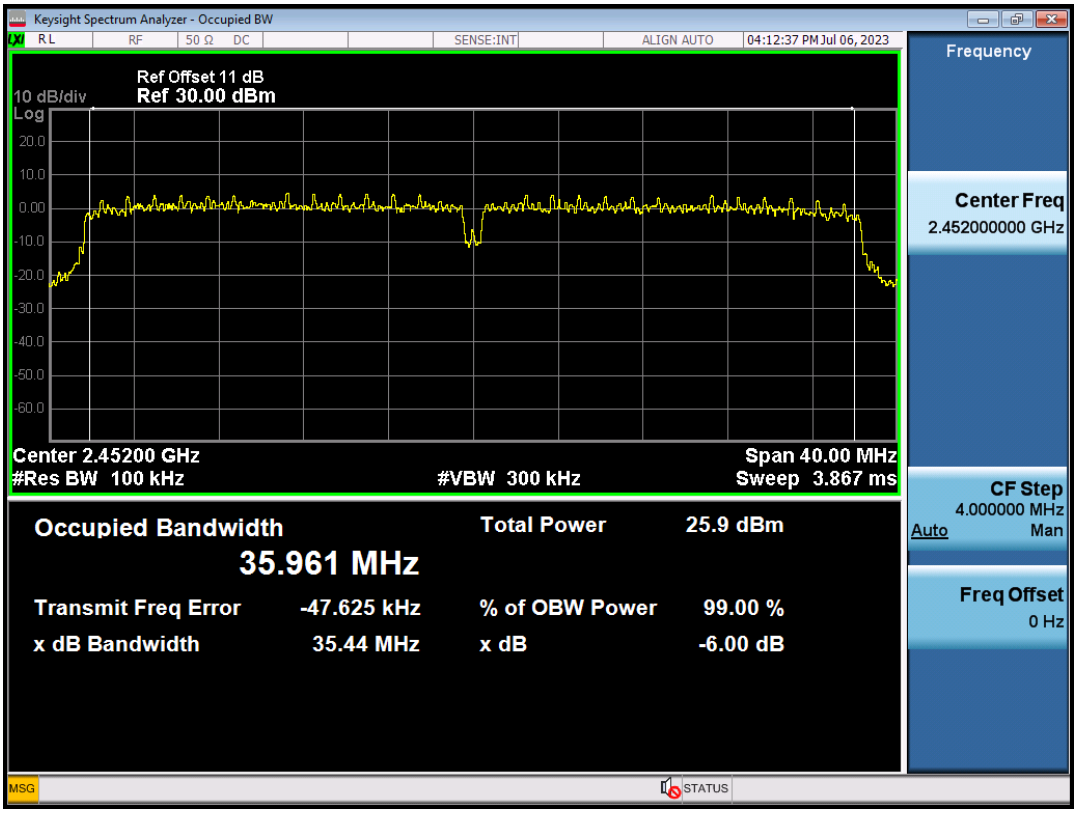
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:45:55 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms
Occupied Bandwidth
35.892 MHz
Total Power 24.4 dBm
Transmit Freq Error -69.730 kHz
% of OBW Power 99.00 %
x dB Bandwidth 35.72 MHz
x dB -6.00 dB
Center Freq
2.437000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

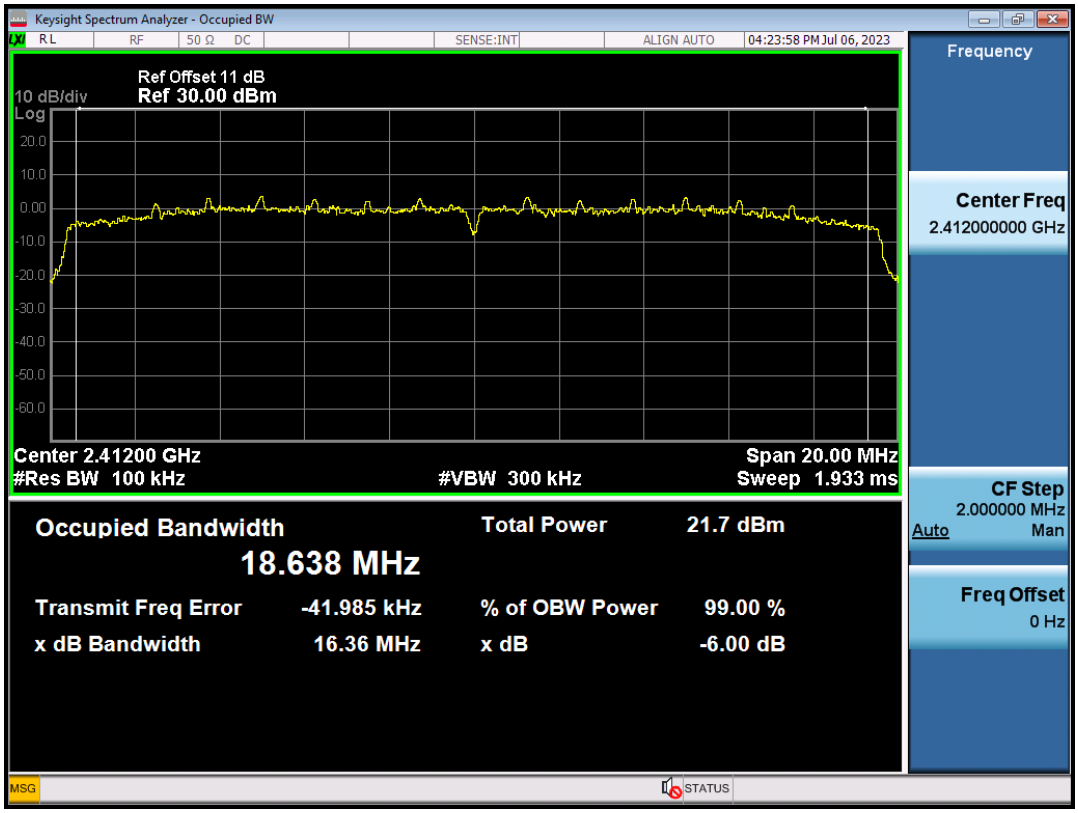
CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:12:37 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms
Occupied Bandwidth
35.961 MHz
Total Power 25.9 dBm
Transmit Freq Error -47.625 kHz
% of OBW Power 99.00 %
x dB Bandwidth 35.44 MHz
x dB -6.00 dB
Center Freq
2.452000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

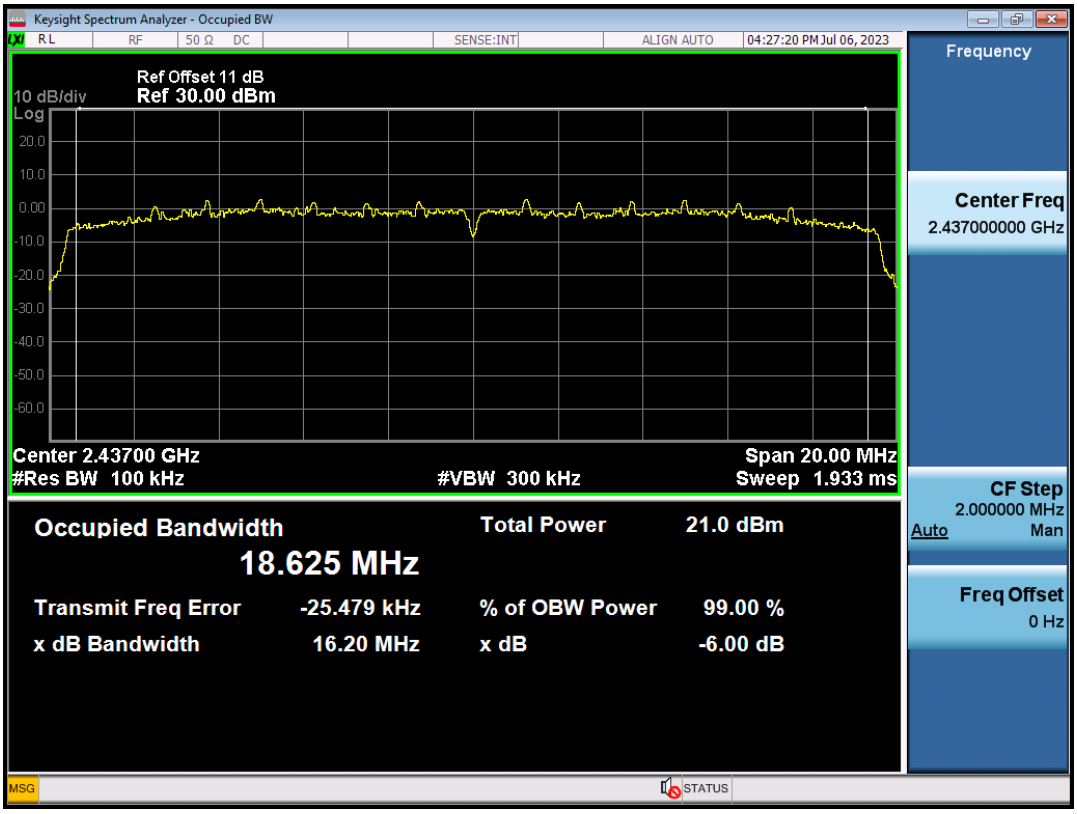
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11ax – HE20
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH01	2412	16.36	0.5
CH06	2437	16.20	0.5
CH11	2462	16.53	0.5

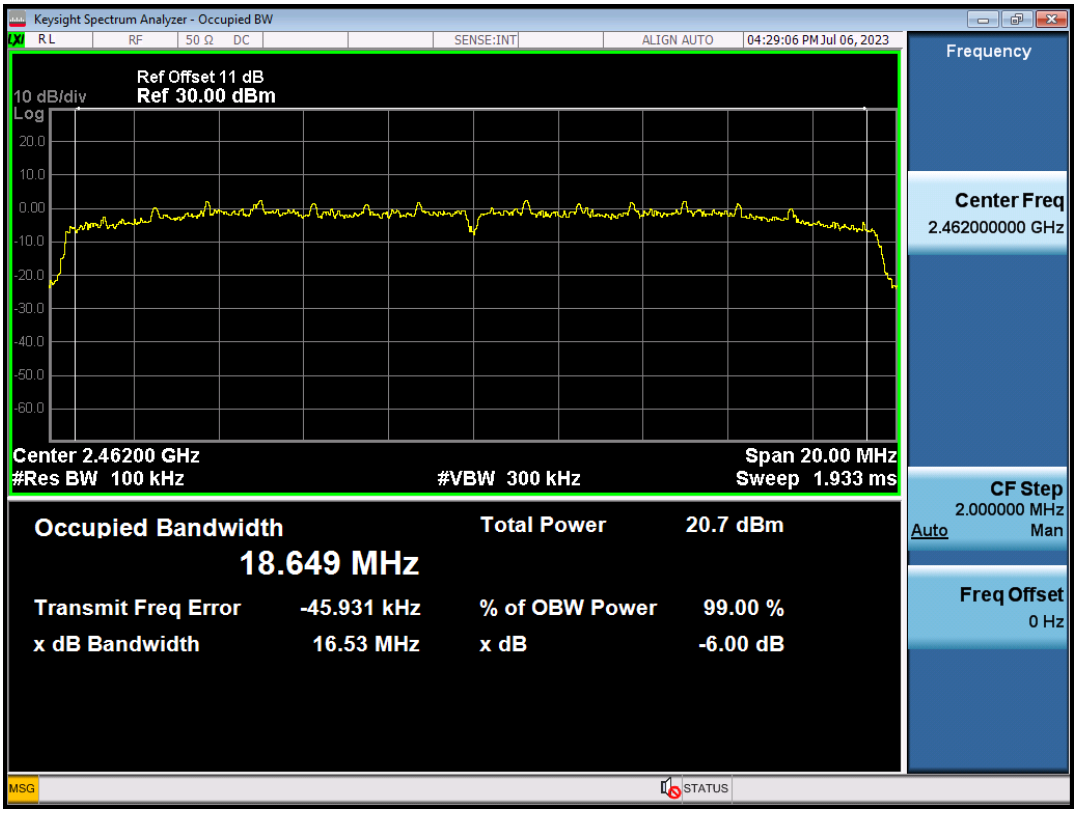
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:27:20 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
18.625 MHz
Total Power
21.0 dBm
Transmit Freq Error
-25.479 kHz
% of OBW Power
99.00 %
x dB Bandwidth
16.20 MHz
x dB
-6.00 dB
Center Freq
2.437000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

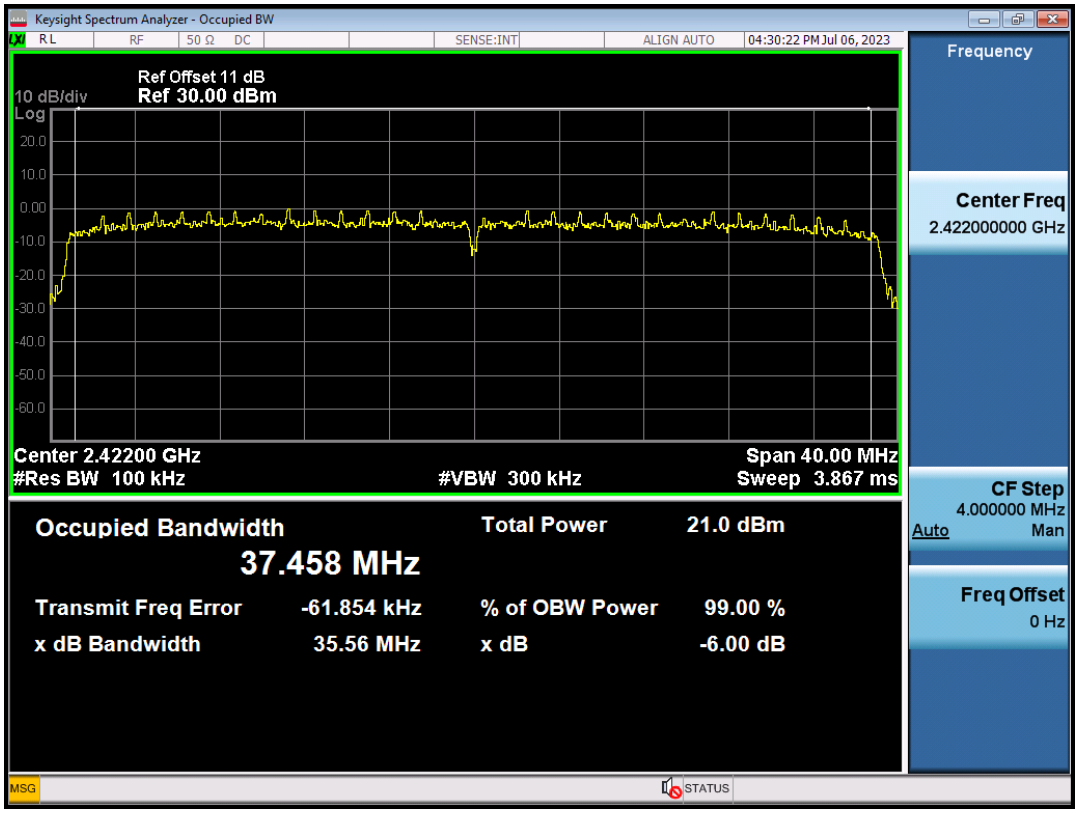
CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:29:06 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20.00 MHz
Sweep 1.933 ms
Occupied Bandwidth
18.649 MHz
Total Power
20.7 dBm
Transmit Freq Error
-45.931 kHz
% of OBW Power
99.00 %
x dB Bandwidth
16.53 MHz
x dB
-6.00 dB
Center Freq
2.462000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

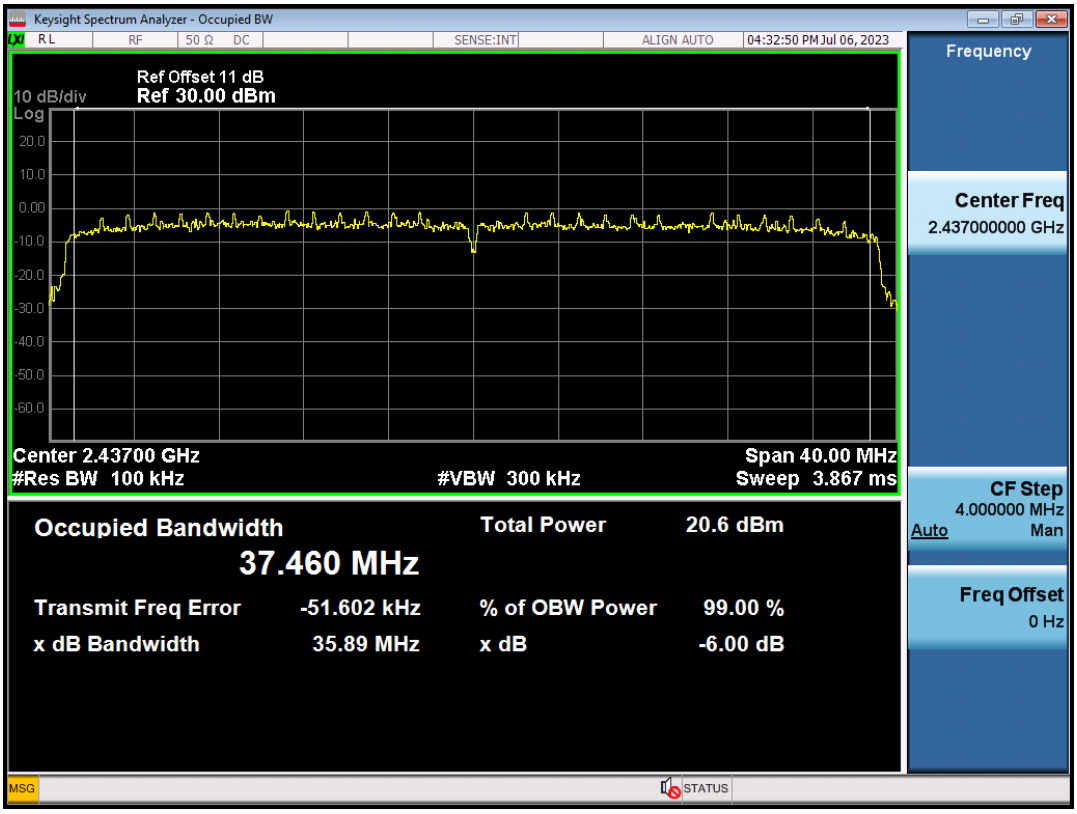
Temperature:	28 °C	Humidity:	70 %RH
RBW:	100 kHz	Modulation:	802.11ax – HE40
Detector:	Peak	VBW:	300 kHz
Tested By:	JImmy Tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
CH03	2422	35.56	0.5
CH06	2437	35.89	0.5
CH09	2452	35.96	0.5

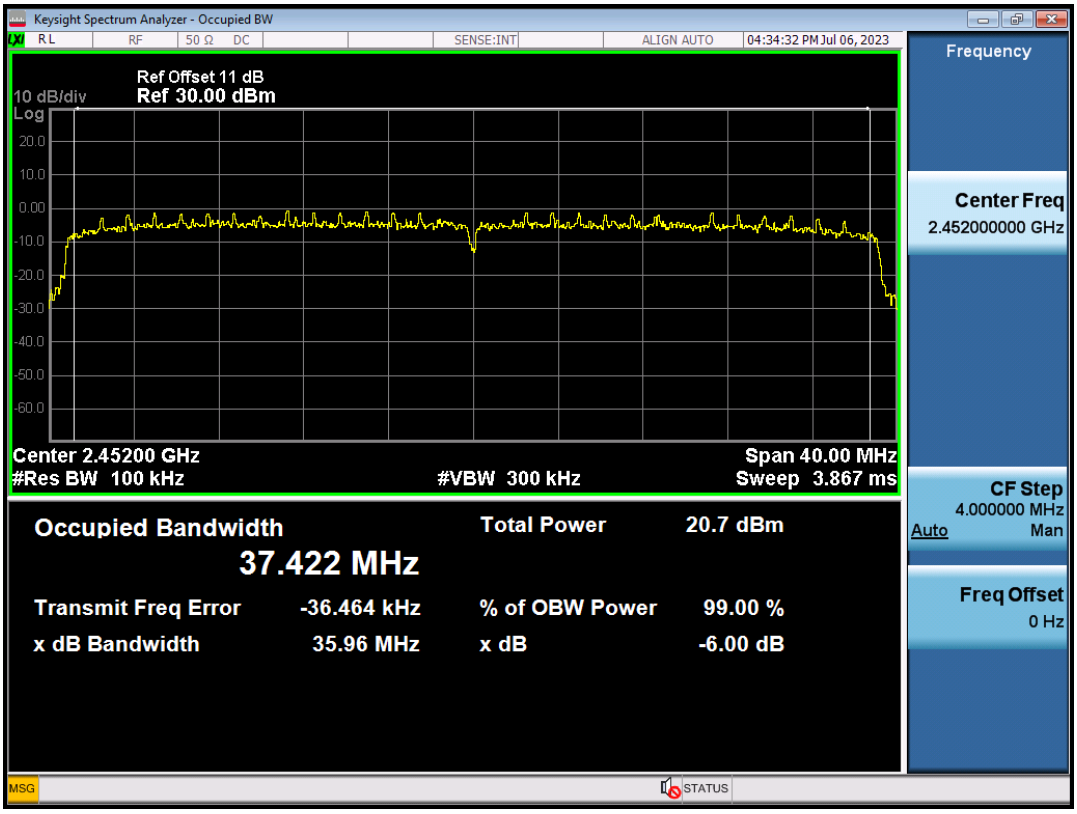
CH01



CH06


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:32:50 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms
Occupied Bandwidth
37.460 MHz
Total Power
20.6 dBm
Transmit Freq Error
-51.602 kHz
% of OBW Power
99.00 %
x dB Bandwidth
35.89 MHz
x dB
-6.00 dB
Center Freq
2.437000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

CH11


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
04:34:32 PM Jul 06, 2023
Frequency
Ref Offset 11 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms
Occupied Bandwidth
37.422 MHz
Total Power
20.7 dBm
Transmit Freq Error
-36.464 kHz
% of OBW Power
99.00 %
x dB Bandwidth
35.96 MHz
x dB
-6.00 dB
Center Freq
2.452000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

4.4 PEAK CONDUCTED OUTPUT POWER TEST

4.4.1 LIMIT

FCC Part15, Subpart C Section 15.247(b).

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

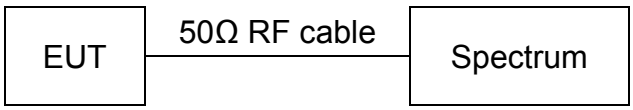
4.4.2 TEST EQUIPMENT

The following test equipment was used during the test：

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

NOTE： The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST SET-UP



4.4.4 TEST PROCEDURE

The EUT was operating in continuous transmission mode or could control its channel.

Printed out the test result from the spectrum by hard copy function.

4.4.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.

4.4.6 TEST RESULT

Temperature:	25 °C	Humidity:	67 %RH
Detector:	RMS	Test Mode:	All
RBW:	300 kHz	VBW:	1 MHz
Tested By:	Jimmy tseng	Tested Date:	Oct. 20, 2020

Mode	Frequency (MHz)	Total Power Average dBm	Limit Average dBm	Limit Result	Power setting
802.11b	2412	21.25	30.00	PASS	11
	2437	20.53	30.00	PASS	11
	2462	20.57	30.00	PASS	11
802.11g	2412	16.83	30.00	PASS	10
	2437	20.41	30.00	PASS	11
	2462	20.51	30.00	PASS	11
802.11n20	2412	20.28	30.00	PASS	11
	2437	20.50	30.00	PASS	11
	2462	20.52	30.00	PASS	11
802.11n40	2422	16.47	30.00	PASS	10
	2437	16.45	30.00	PASS	10
	2452	20.27	30.00	PASS	11
802.11ax20	2412	20.46	30.00	PASS	11
	2437	20.06	30.00	PASS	11
	2462	20.41	30.00	PASS	11
802.11ax40	2422	20.03	30.00	PASS	11
	2437	20.18	30.00	PASS	11
	2452	20.26	30.00	PASS	11

4.5 BAND EDGE TEST

4.5.1 LIMIT

FCC Part15, Subpart C Section 15.247(d).

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)).

Operating Frequency Range (MHz)	Spurious Emission Frequency (MHz)	LIMIT	
		Peak power ration to emission (dBc)	Emission level (dBuV/m)
2400 - 2483.5	< 2400	> 20	N/A
	> 2483.5-2500	N/A	54

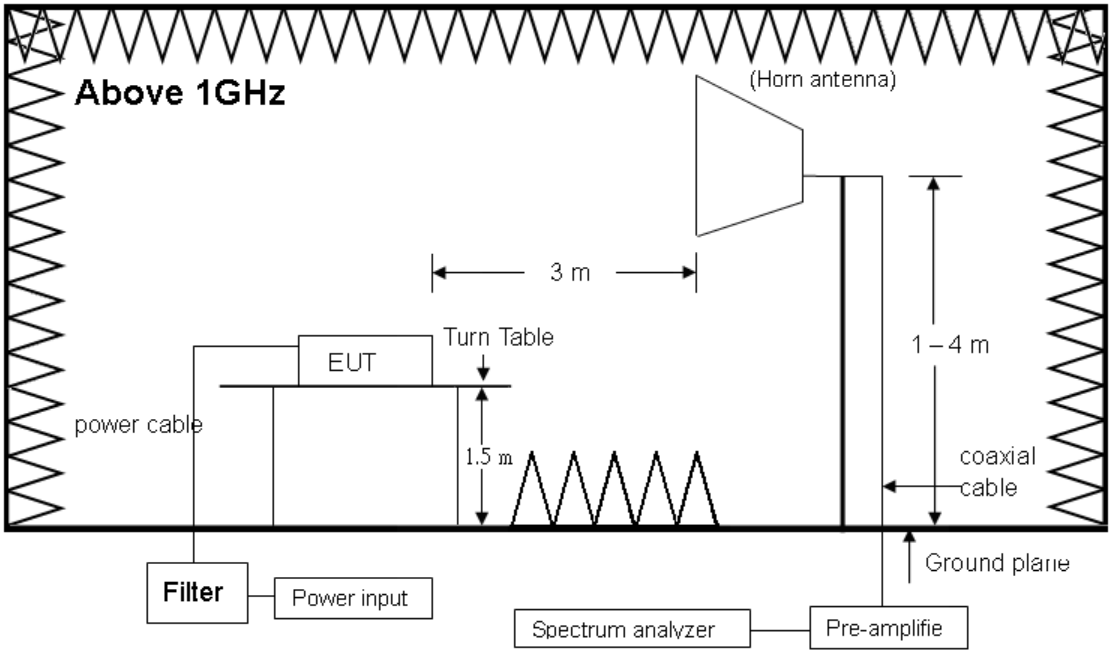
4.5.2 TEST EQUIPMENT

The following test equipment was used during the test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EXA Signal Analyzer	10 Hz ~ 44 GHz	KEYSIGHT	N9010A / MY56480554	AUG. 24, 2023 ETC	■
EMI Test Receiver (Include Spectrum Analyzer)	9 KHz ~ 6 GHz	ROHDE & SCHWARZ	ESL 6 / 100176	SEP. 06, 2023 ETC	■
Spectrum Analyzer	9 kHz ~ 40GHz	ROHDE & SCHWARZ	FSP40 / 100093	FEB. 16, 2024 ETC	■
Pre-Amplifier	1 ~ 26.5 GHz	AGILENT	8449B / 3008A01995	FEB. 16, 2024 ETC	■
Horn Antenna	1 ~ 18 GHz	EMCO	3115 / 9602-4681	MAR. 09, 2024 ETC	■
Horn Antenna	18 ~ 40 GHZ	ETS-LINDGREN	3116 / 00032255	MAY 13, 2024 ETC	■
Anechoic Chamber	3 M Measurement	SRT	A01 / SRT001	MAR. 24, 2024 SRT	■
RF Cable	Up to 18 GHz 1.5 m	JYEBAO	A30A30-L 142 / EQF-0035(001)	JAN. 24, 2024 ETC	■
RF Cable	Up to 26.5 GHz 3.5 m	EMCI	EMC104-SM-SM-3500 / 150601	SEP. 19, 2023 ETC	■
K-Type Cable	Up to 40 GHz 3 m	HUBER+ SUHNER	SF102-46/2* 11SK252 / MY2611/2	APR. 06, 2024 ETC	■
K-Type Cable	Up to 40 GHz, 1 m	HUBER+ SUHNER	SF102/2*11SK252 / MY3331/2	FEB. 15, 2024 ETC	■
Filter	2 Line, 30 A	FIL.COIL	FC-943 / 869	NCR	■

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST SETUP



NOTE: The EUT system was put on a wooden table with 1.5m heights above a ground plane. For the actual test configuration, please refer to the photos of testing.

4.5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and CISPR 22:2003. When the frequency spectrum measured started from 30 MHz to 1 GHz, then use antenna is a BICONICAL ANTENNA & LOG PERIODIC ANTENNA. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.5.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.

4.5.6 TEST RESULT

Conducted Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11b
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

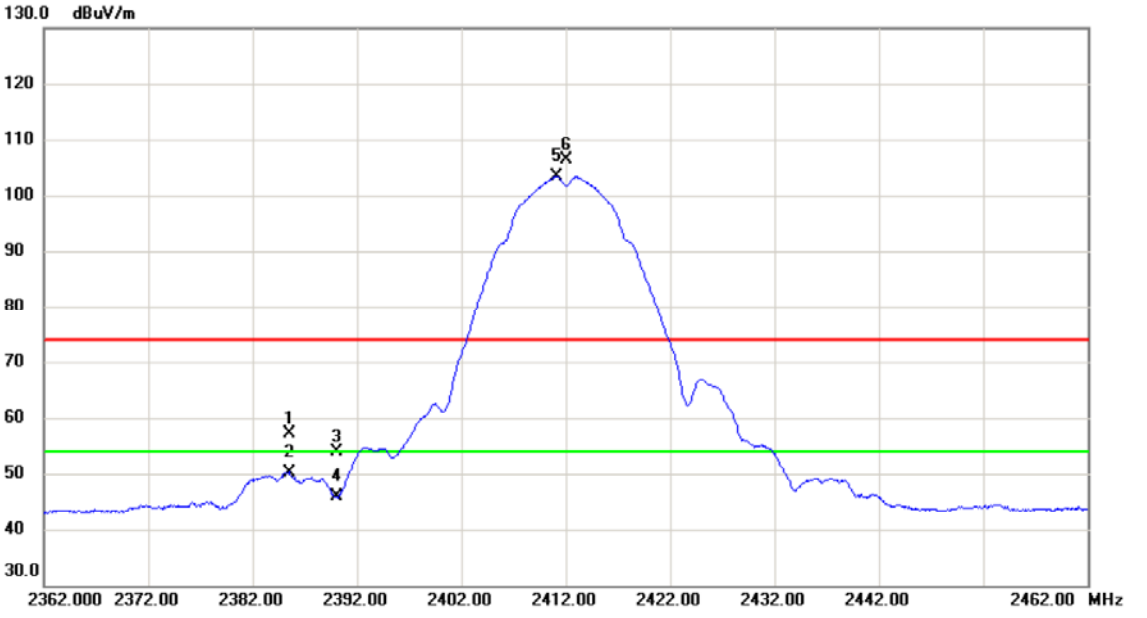
The maximum radio frequency power within the bandwidth range.			
Upper edge strip		lower margin strip	
Frequency (MHz)	Power (dBm)	Frequency (MHz)	Power (dBm)
2412	16.61	2462	15.85

Frequency	Bandedge	amplitude difference (dBc)	Limit in 4.10.1.5	Result
< 2.4 GHz	-35.91	52.52	20 dB	Pass
> 2.4835 GHz	-37.32	53.17	20 dB	Pass

Radiated Test

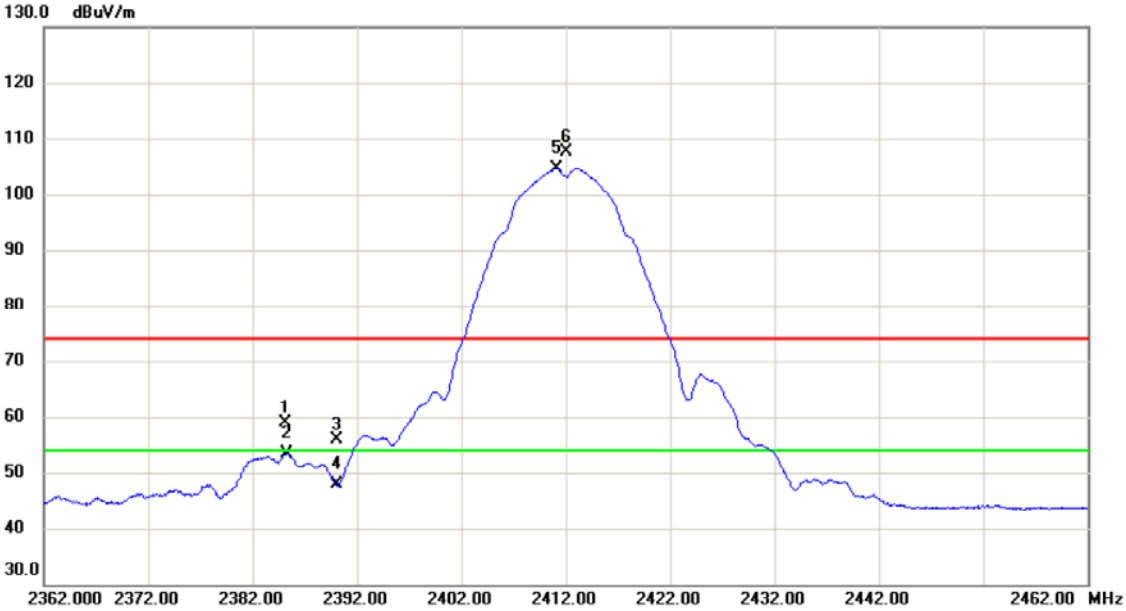
Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11b
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

CH01_Horizontal



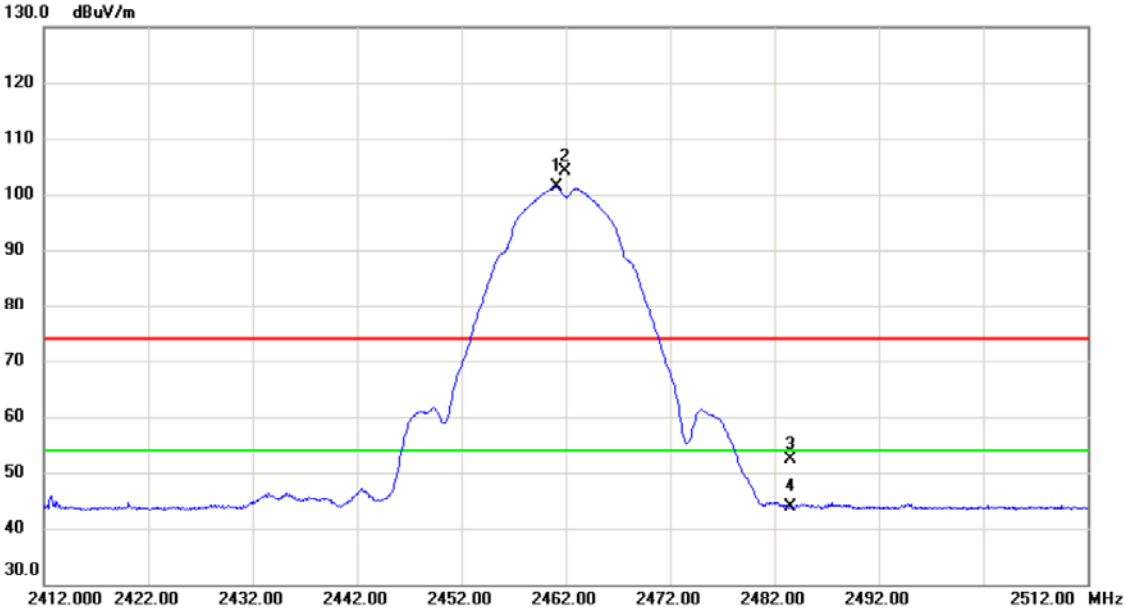
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2385.500	48.89	8.27	57.16	74.00	-16.84	peak	
2		2385.500	41.98	8.27	50.25	54.00	-3.75	AVG	
3		2390.000	45.71	8.28	53.99	74.00	-20.01	peak	
4		2390.000	37.52	8.28	45.80	54.00	-8.20	AVG	
5	*	2411.100	95.01	8.35	103.36	54.00	49.36	AVG	
6	X	2412.000	97.91	8.36	106.27	74.00	32.27	peak	

CH01_Vertical



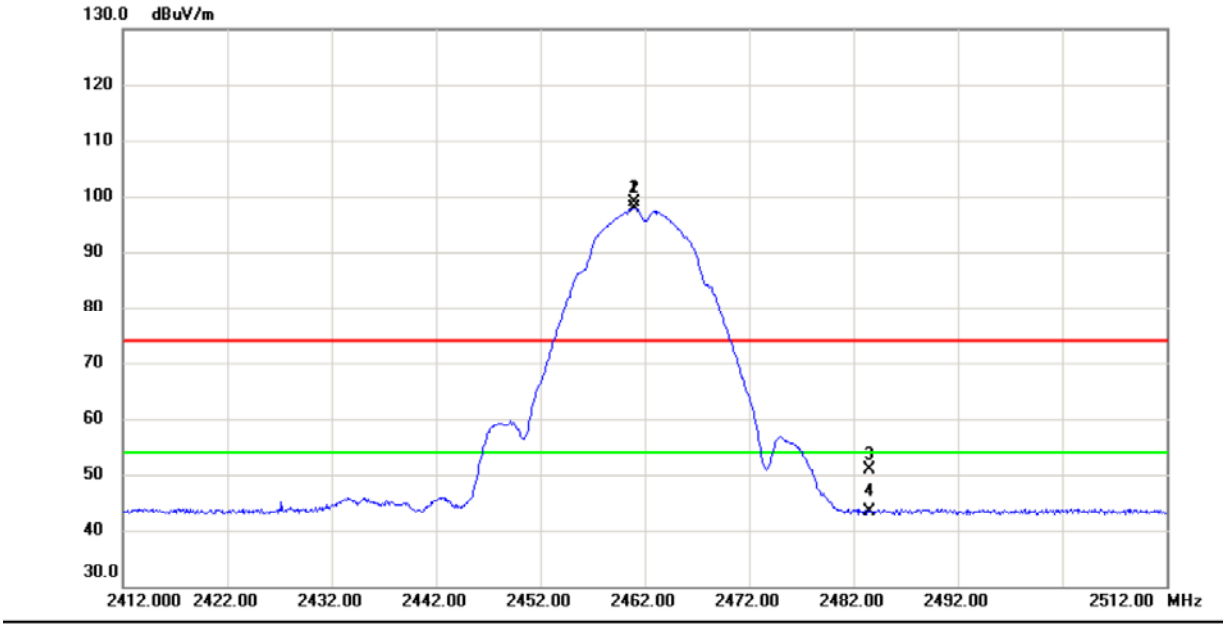
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2385.200	50.55	8.27	58.82	74.00	-15.18	peak	
2		2385.300	45.13	8.27	53.40	54.00	-0.60	AVG	
3		2390.000	47.60	8.28	55.88	74.00	-18.12	peak	
4		2390.000	39.64	8.28	47.92	54.00	-6.08	AVG	
5	*	2411.100	96.38	8.35	104.73	54.00	50.73	AVG	
6	X	2412.000	99.28	8.36	107.64	74.00	33.64	peak	

CH11_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2461.100	92.72	8.61	101.33	54.00	47.33	AVG	
2	X	2461.900	95.57	8.62	104.19	74.00	30.19	peak	
3		2483.500	43.72	8.72	52.44	74.00	-21.56	peak	
4		2483.500	35.19	8.72	43.91	54.00	-10.09	AVG	

CH11_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2461.000	90.36	8.61	98.97	74.00	24.97	peak	
2	*	2461.000	89.27	8.61	97.88	54.00	43.88	AVG	
3		2483.500	42.27	8.72	50.99	74.00	-23.01	peak	
4		2483.500	34.56	8.72	43.28	54.00	-10.72	AVG	

Note: Measurement uncertainty is 3.85 dB.

CH01：


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω DC SENSE:INT ALIGN AUTO 03:45:31 PM Jul 06, 2023
Ref Offset 14.19 dB
10 dB/div Ref 30.00 dBm
Log
Mkr4 2.399 5 GHz
-24.41 dBm
DL1 -13.39 dBm
Start 2.32300 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42300 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.412 5 GHz 16.61 dBm
2 N 1 f 2.400 0 GHz -28.91 dBm
3 N 1 f 2.390 0 GHz -35.91 dBm
4 N 1 f 2.399 5 GHz -24.41 dBm
Frequency
Auto Tune
Center Freq
2.373000000 GHz
Start Freq
2.323000000 GHz
Stop Freq
2.423000000 GHz
CF Step
10.000000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin
MSG
STATUS

CH11：


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω DC SENSE:INT ALIGN AUTO 03:51:15 PM Jul 06, 2023
Ref Offset 14.19 dB
10 dB/div Ref 30.00 dBm
Log
Mkr4 2.517 9 GHz
-35.03 dBm
DL1 -14.15 dBm
Start 2.44800 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.54800 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.461 0 GHz 15.85 dBm
2 N 1 f (Δ) 2.483 5 GHz (Δ) -36.77 dBm
3 N 1 f (Δ) 2.500 0 GHz (Δ) -37.32 dBm
4 N 1 f 2.517 9 GHz -35.03 dBm
Frequency
Auto Tune
Center Freq
2.498000000 GHz
Start Freq
2.448000000 GHz
Stop Freq
2.548000000 GHz
CF Step
10.000000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin
MSG
STATUS

Conducted Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11g
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

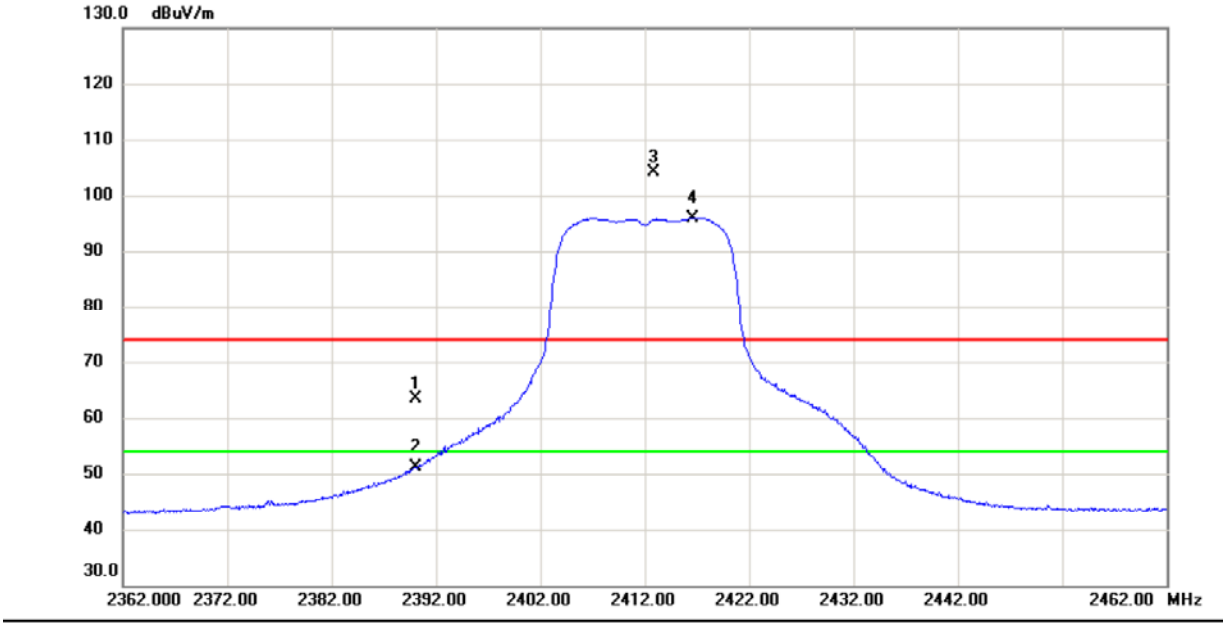
The maximum radio frequency power within the bandwidth range.			
Upper edge strip		lower margin strip	
Frequency (MHz)	Power (dBm)	Frequency (MHz)	Power (dBm)
2412	9.45	2462	12.9

Frequency	Bandedge	amplitude difference	Frequency	Bandedge
< 2.4 GHz	-40.41	49.86	20 dB	Pass
> 2.4835 GHz	-37.95	50.85	20 dB	Pass

Radiated Test

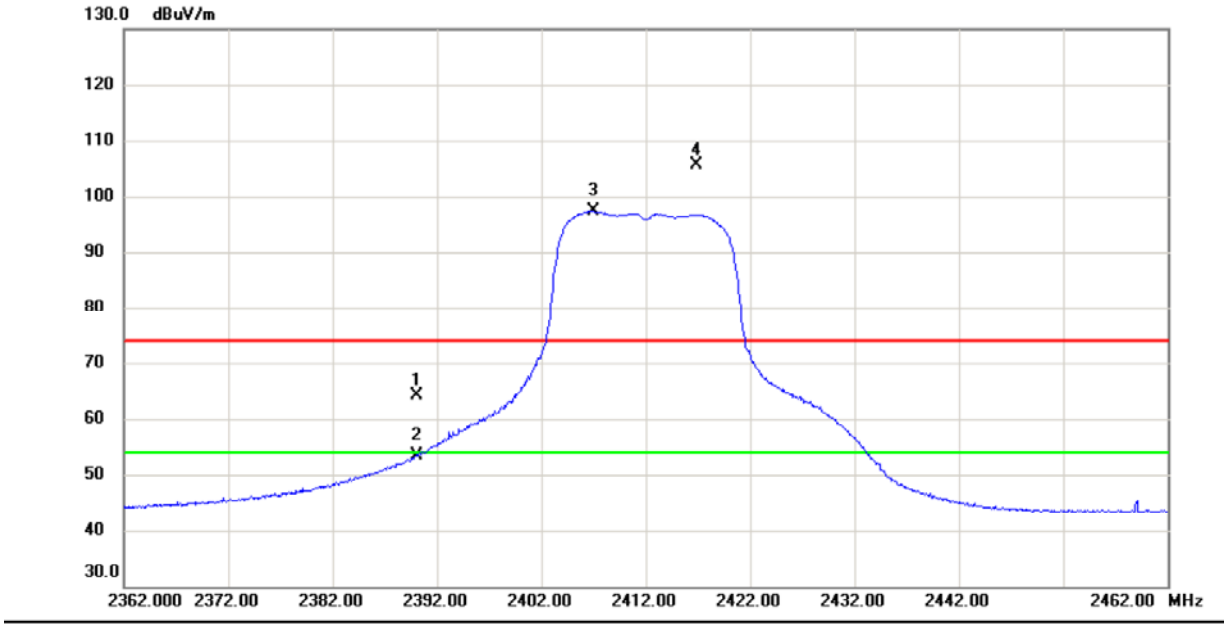
Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11g
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

CH01_Horizontal



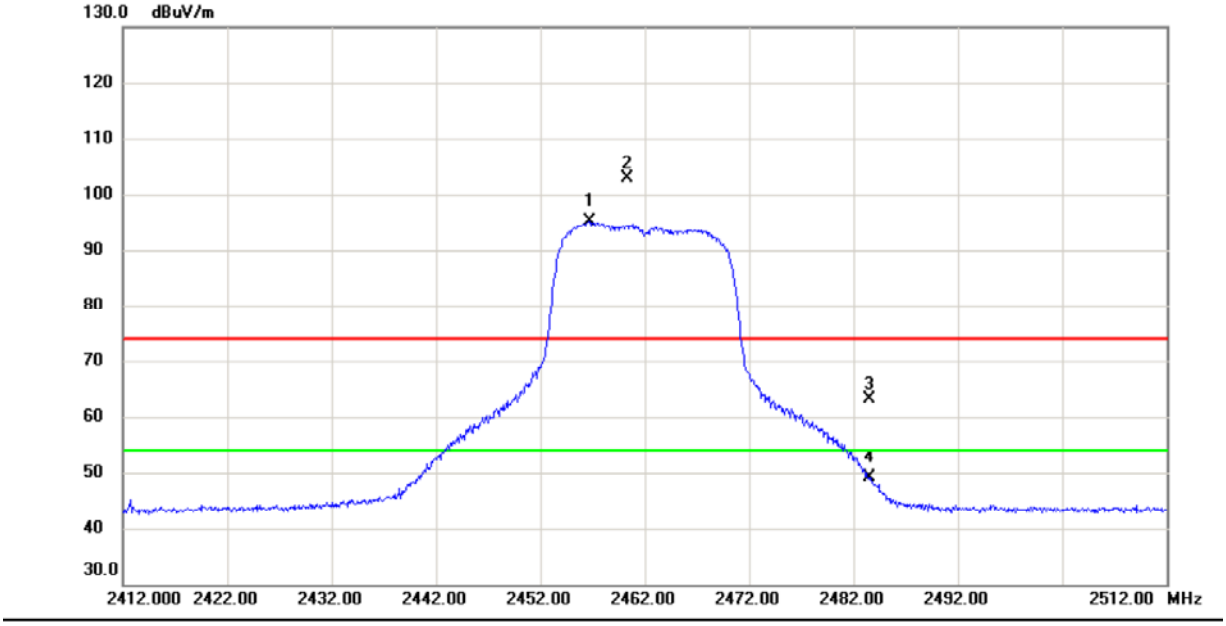
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	55.17	8.28	63.45	74.00	-10.55	peak	
2		2390.000	42.79	8.28	51.07	54.00	-2.93	AVG	
3	X	2412.900	95.81	8.36	104.17	74.00	30.17	peak	
4	*	2416.600	87.61	8.38	95.99	54.00	41.99	AVG	

CH01_Vertical



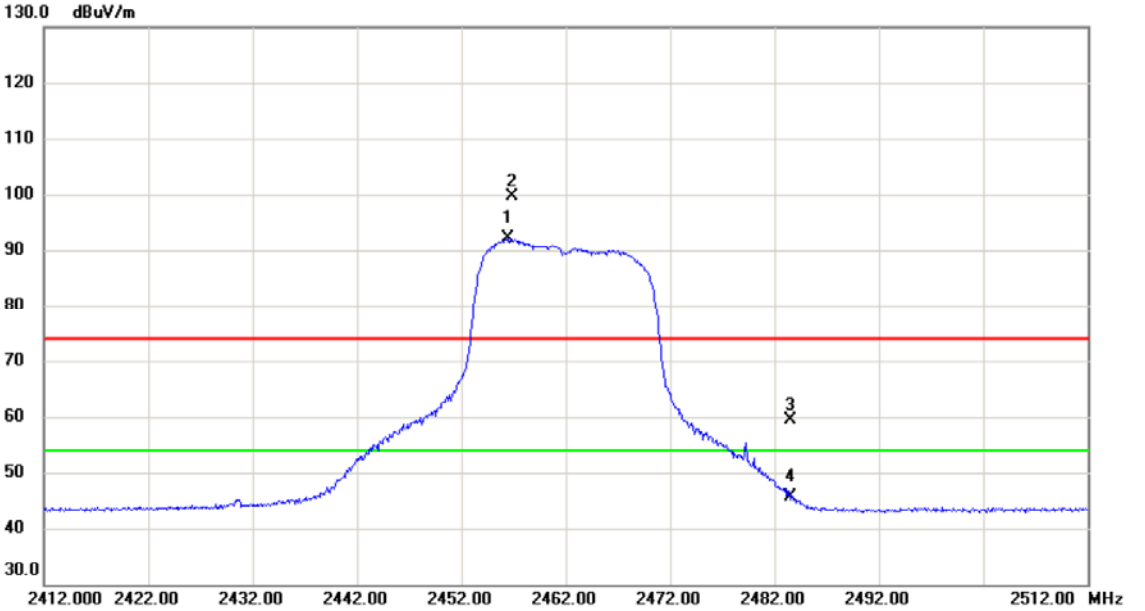
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	55.87	8.28	64.15	74.00	-9.85	peak	
2		2390.000	45.17	8.28	53.45	54.00	-0.55	AVG	
3	*	2407.000	88.99	8.32	97.31	54.00	43.31	AVG	
4	X	2416.800	97.36	8.38	105.74	74.00	31.74	peak	

CH11_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.700	86.52	8.58	95.10	54.00	41.10	AVG	
2	X	2460.300	94.31	8.60	102.91	74.00	28.91	peak	
3		2483.500	54.41	8.72	63.13	74.00	-10.87	peak	
4		2483.500	40.44	8.72	49.16	54.00	-4.84	AVG	

CH11_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.400	83.47	8.58	92.05	54.00	38.05	AVG	
2	X	2456.900	91.13	8.58	99.71	74.00	25.71	peak	
3		2483.500	50.60	8.72	59.32	74.00	-14.68	peak	
4		2483.500	36.95	8.72	45.67	54.00	-8.33	AVG	

Note: Measurement uncertainty is 3.85 dB.

CH01 :


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω DC SENSE:INT ALIGN AUTO 04:38:48 PM Jul 06, 2023
Ref Offset 14.19 dB
10 dB/div Ref 20.00 dBm
Log
Mkr4 2.400 0 GHz
-25.05 dBm
DL1 -20.55 dBm
Start 2.32300 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42300 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.407 0 GHz 9.45 dBm
2 N 1 f (Δ) 2.400 0 GHz (Δ) -25.05 dBm
3 N 1 f (Δ) 2.390 0 GHz (Δ) -40.41 dBm
4 N 1 f 2.400 0 GHz -25.05 dBm
Frequency
Auto Tune
Center Freq
2.373000000 GHz
Start Freq
2.323000000 GHz
Stop Freq
2.423000000 GHz
CF Step
10.000000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin
MSG
STATUS

CH11 :


Keysight Spectrum Analyzer - Swept SA
RL RF 50 Ω DC SENSE:INT ALIGN AUTO 03:58:30 PM Jul 06, 2023
Ref Offset 14.19 dB
10 dB/div Ref 30.00 dBm
Log
Mkr4 2.483 5 GHz
-24.93 dBm
DL1 -17.10 dBm
Start 2.44800 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.54800 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.463 2 GHz 12.90 dBm
2 N 1 f (Δ) 2.483 5 GHz (Δ) -24.93 dBm
3 N 1 f (Δ) 2.500 0 GHz (Δ) -37.95 dBm
4 N 1 f 2.483 5 GHz -24.93 dBm
Frequency
Auto Tune
Center Freq
2.498000000 GHz
Start Freq
2.448000000 GHz
Stop Freq
2.548000000 GHz
CF Step
10.000000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin
MSG
STATUS

Conducted Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11n - HT20
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

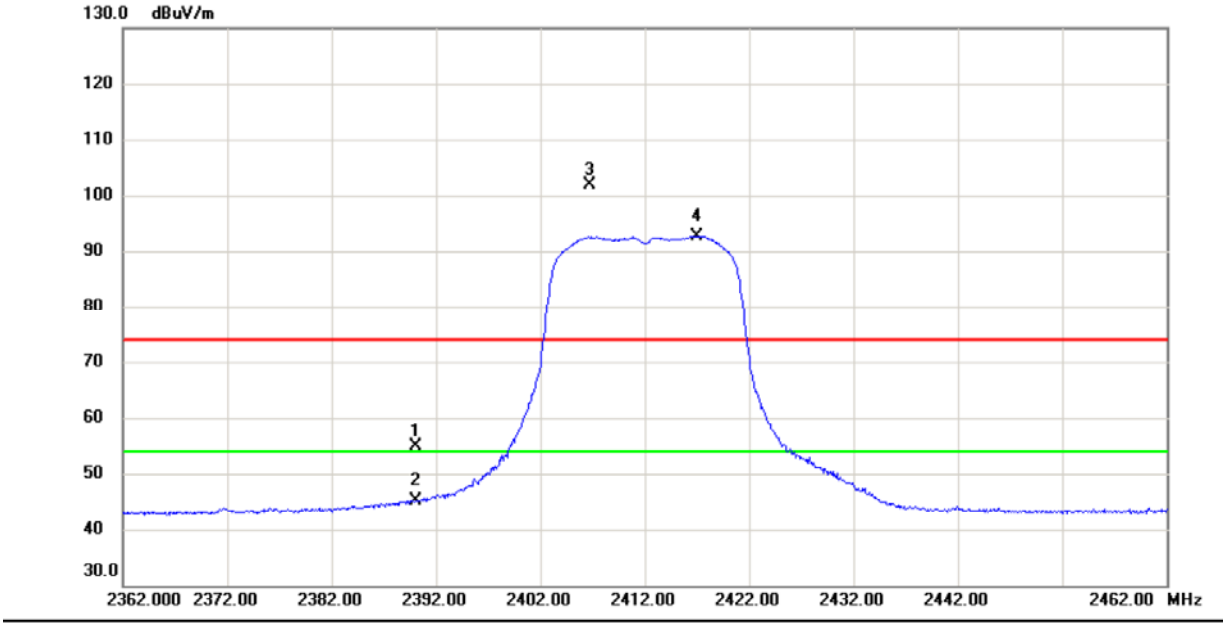
The maximum radio frequency power within the bandwidth range.			
Upper edge strip		lower margin strip	
Frequency	Power (dBm)	Frequency (MHz)	Power (dBm)
2412	11.83	2462	10.85

Frequency	Bandedge	amplitude difference	Frequency	Bandedge
< 2.4 GHz	-30.84	42.67	20 dB	Pass
> 2.4835 GHz	-37.78	48.63	20 dB	Pass

Radiated Test

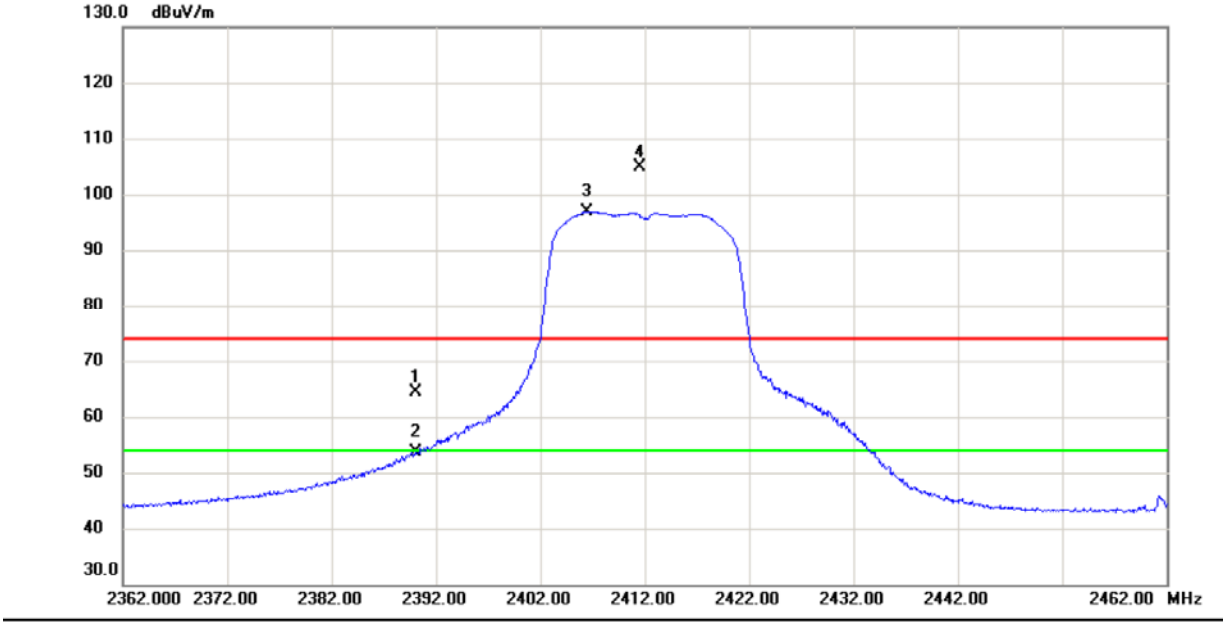
Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11n - HT20
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

CH01_Horizontal



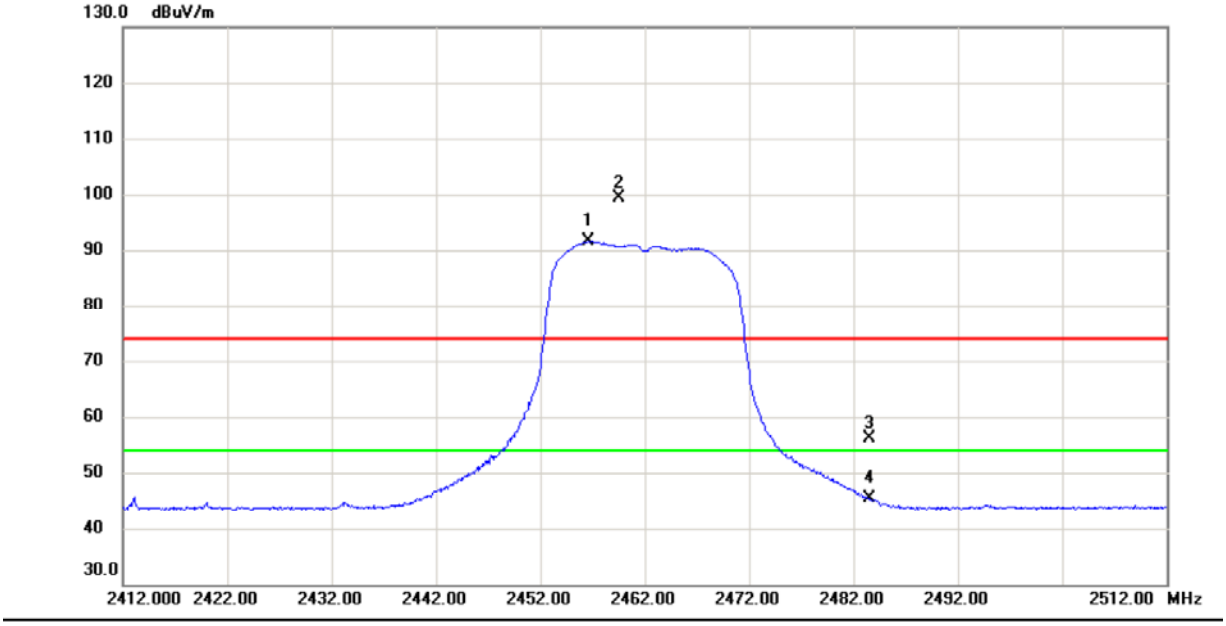
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	46.55	8.28	54.83	74.00	-19.17	peak	
2		2390.000	36.83	8.28	45.11	54.00	-8.89	AVG	
3	X	2406.700	93.45	8.32	101.77	74.00	27.77	peak	
4	*	2417.000	84.34	8.38	92.72	54.00	38.72	AVG	

CH01_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	56.18	8.28	64.46	74.00	-9.54	peak	
2		2390.000	45.30	8.28	53.58	54.00	-0.42	AVG	
3	*	2406.500	88.67	8.32	96.99	54.00	42.99	AVG	
4	X	2411.500	96.61	8.36	104.97	74.00	30.97	peak	

CH11_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.600	82.94	8.58	91.52	54.00	37.52	AVG	
2	X	2459.500	90.77	8.60	99.37	74.00	25.37	peak	
3		2483.500	47.32	8.72	56.04	74.00	-17.96	peak	
4		2483.500	36.67	8.72	45.39	54.00	-8.61	AVG	