



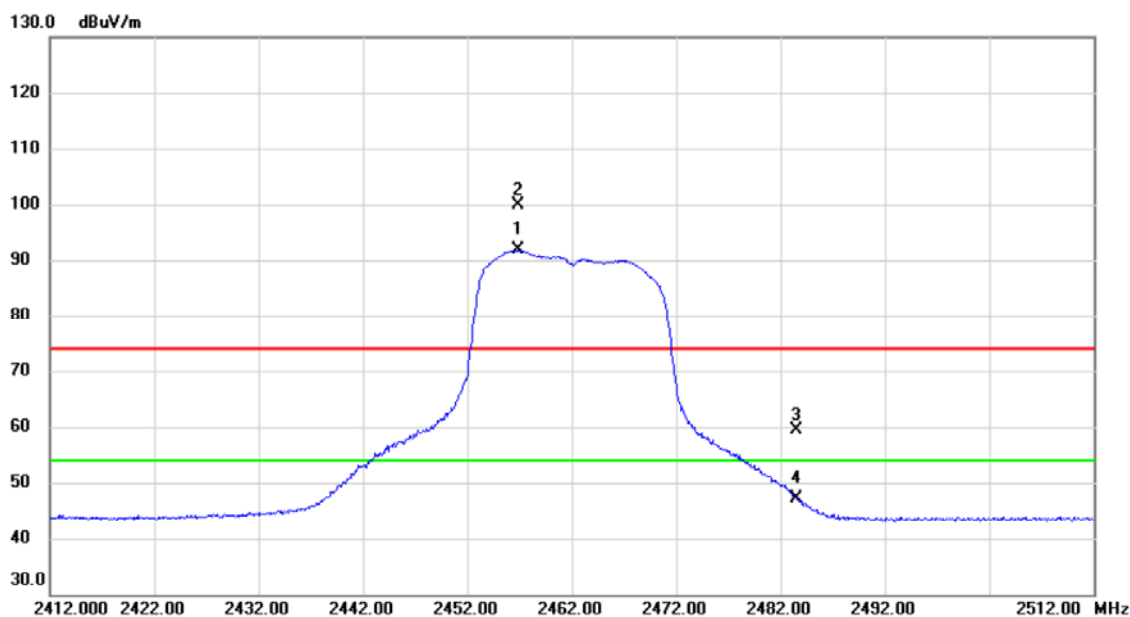
Spectrum Research & Testing Lab., Inc.

No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

TEST REPORT

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CH11_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.800	83.20	8.58	91.78	54.00	37.78	AVG	
2	X	2456.900	91.39	8.58	99.97	74.00	25.97	peak	
3		2483.500	50.62	8.72	59.34	74.00	-14.66	peak	
4		2483.500	38.40	8.72	47.12	54.00	-6.88	AVG	

Note: Measurement uncertainty is 3.85 dB.



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CH01 :



CH11 :



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Conducted Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11n - HT40
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)
2422	5.7	2452	7.84

Frequency	Bandedge	amplitude difference	Frequency	Bandedge
< 2.4 GHz	-38.46	44.16	20 dB	Pass
> 2.4835 GHz	-36.68	44.52	20 dB	Pass

**Spectrum Research & Testing Lab., Inc.**

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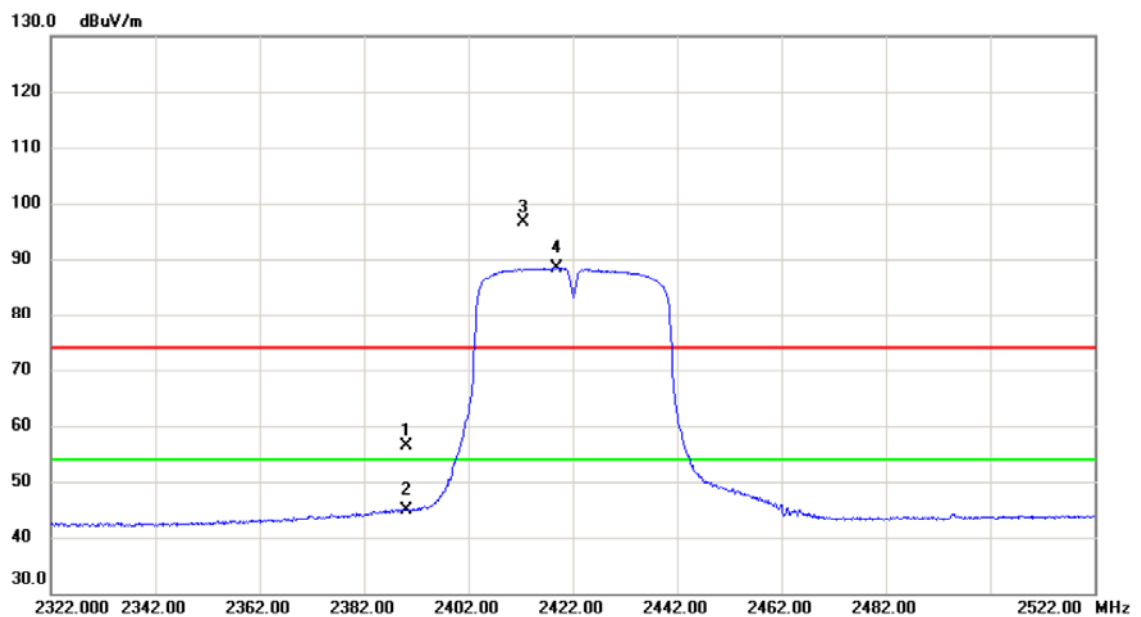
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Radiated Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11n - HT40
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

CH03_Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	48.06	8.28	56.34	74.00	-17.66	peak	
2		2390.000	36.61	8.28	44.89	54.00	-9.11	AVG	
3	X	2412.600	88.35	8.36	96.71	74.00	22.71	peak	
4	*	2418.800	80.00	8.39	88.39	54.00	34.39	AVG	



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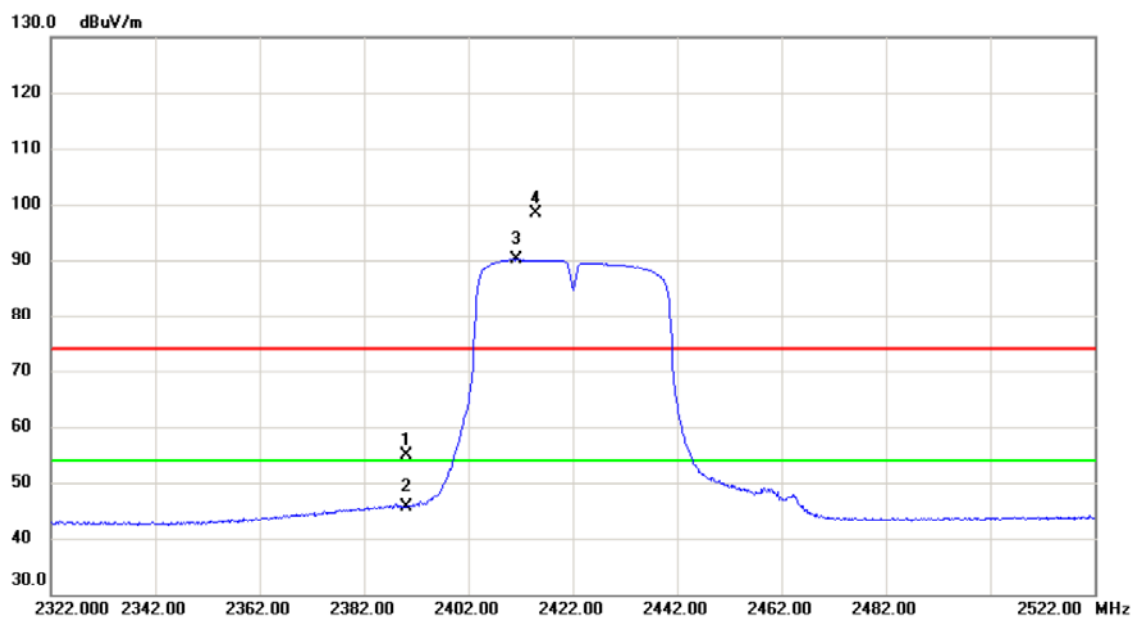
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CH03_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	46.49	8.28	54.77	74.00	-19.23	peak	
2		2390.000	37.34	8.28	45.62	54.00	-8.38	AVG	
3	*	2411.200	81.79	8.35	90.14	54.00	36.14	AVG	
4	X	2414.800	90.07	8.37	98.44	74.00	24.44	peak	



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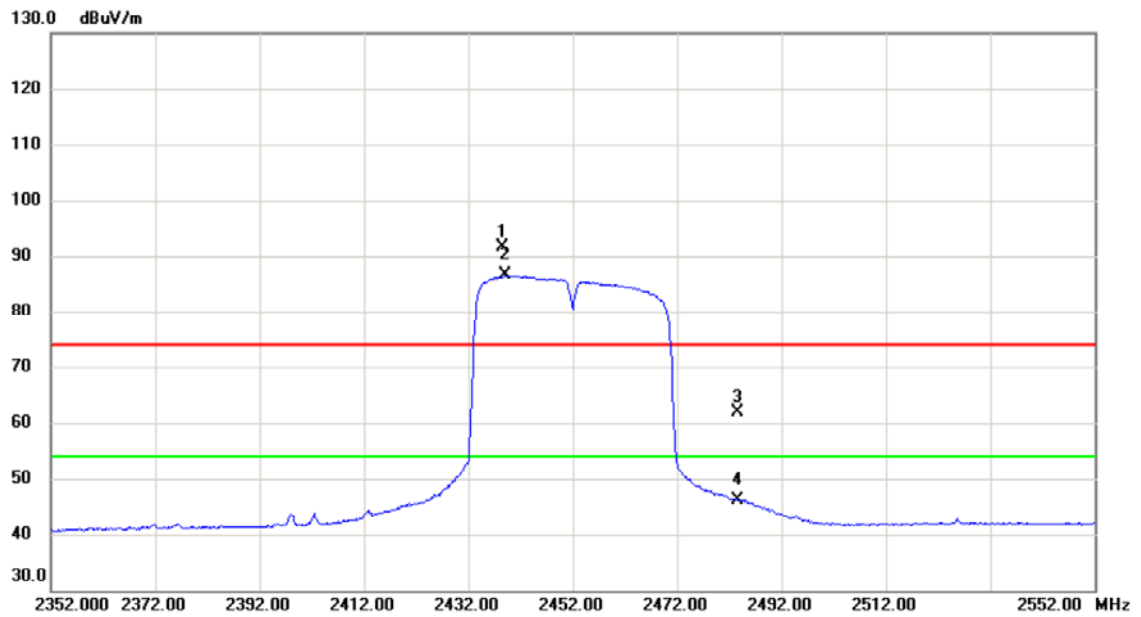
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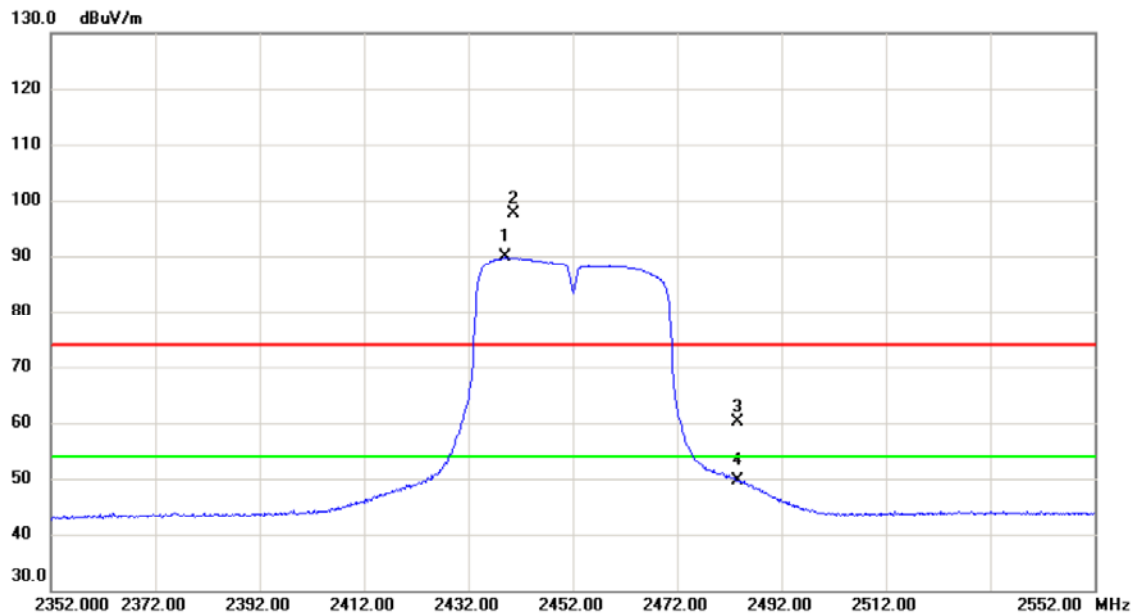
CH09_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2438.400	83.06	8.49	91.55	74.00	17.55	peak	
2	*	2439.000	78.06	8.50	86.56	54.00	32.56	AVG	
3		2483.500	53.28	8.72	62.00	74.00	-12.00	peak	
4		2483.500	37.38	8.72	46.10	54.00	-7.90	AVG	



CH09_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.200	81.27	8.50	89.77	54.00	35.77	AVG	
2	X	2440.600	89.02	8.50	97.52	74.00	23.52	peak	
3		2483.500	51.38	8.72	60.10	74.00	-13.90	peak	
4		2483.500	40.85	8.72	49.57	54.00	-4.43	AVG	

Note: Measurement uncertainty is 3.85 dB.



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CH03



CH09



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Conducted Test

Temperature: 28 °C Humidity: 70 %RH
 Frequency Range: 2.3 ~ 2.6 GHz Tested Mode: 802.11ax - HE20
 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	6.67	2462	5.5

Frequency	Bandedge	amplitude difference	Frequency	Bandedge
< 2.4 GHz	-38.7	45.37	20 dB	Pass
> 2.4835 GHz	-36.92	42.42	20 dB	Pass

**Spectrum Research & Testing Lab., Inc.**

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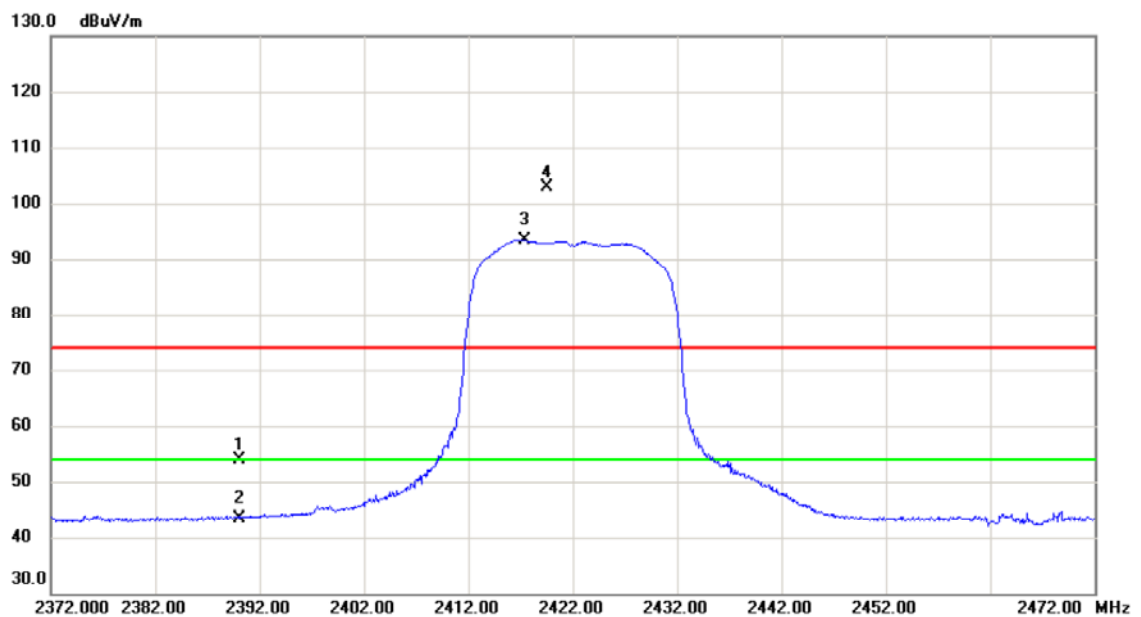
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Radiated Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11ax - HE20
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

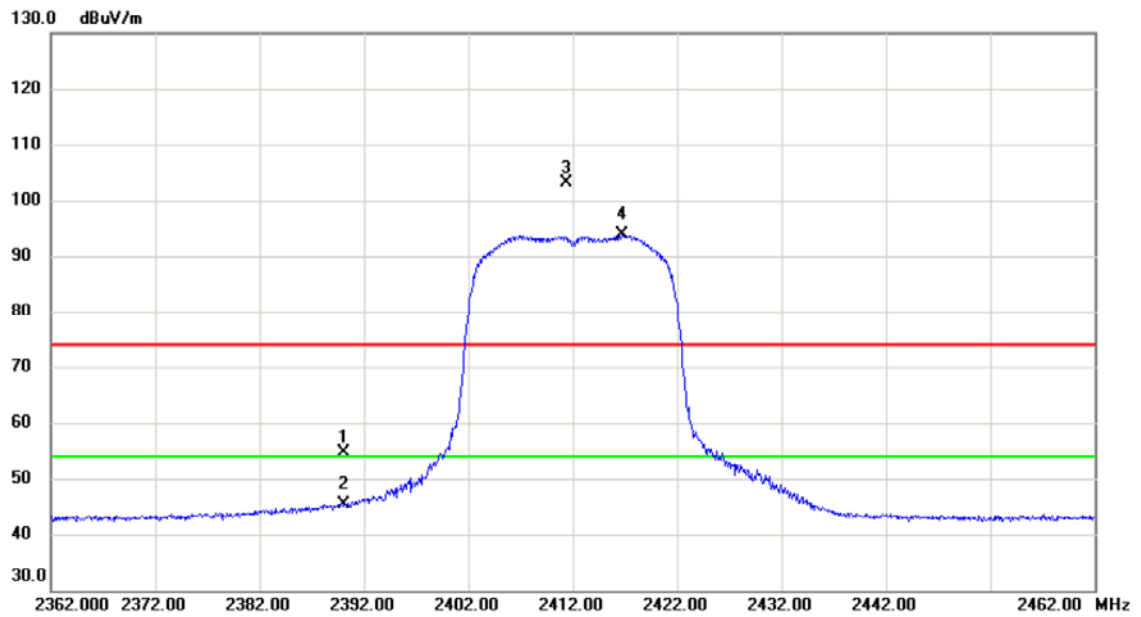
CH01_Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	45.68	8.28	53.96	74.00	-20.04	peak	
2		2390.000	35.18	8.28	43.46	54.00	-10.54	AVG	
3	*	2417.400	85.04	8.38	93.42	54.00	39.42	AVG	
4	X	2419.500	94.40	8.39	102.79	74.00	28.79	peak	



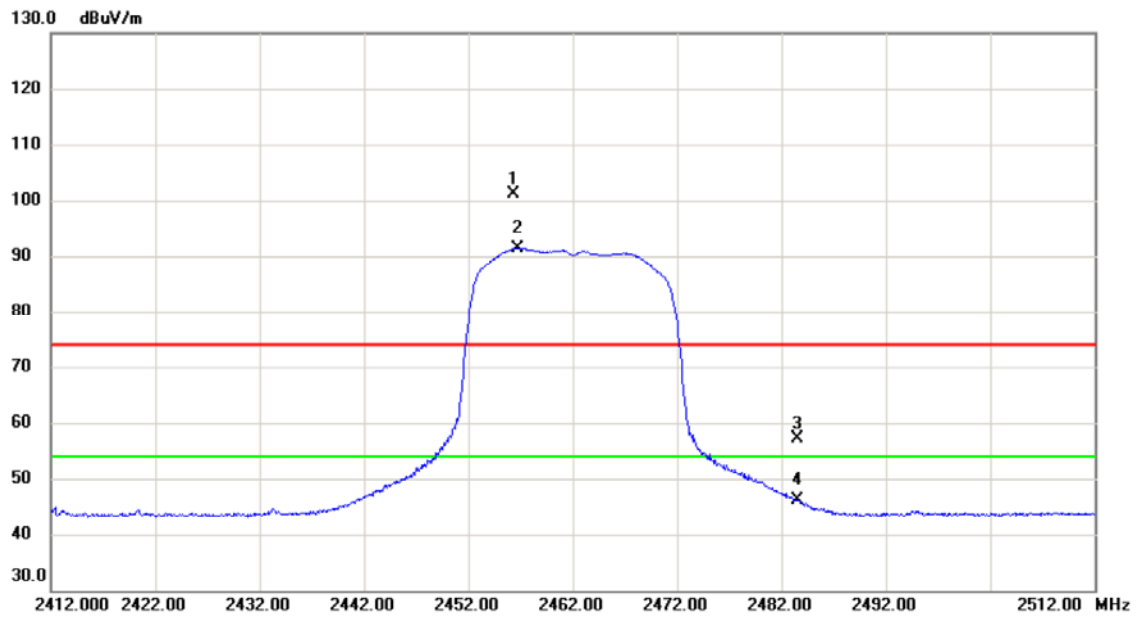
CH01_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	46.40	8.28	54.68	74.00	-19.32	peak	
2		2390.000	37.00	8.28	45.28	54.00	-8.72	AVG	
3	X	2411.400	94.80	8.36	103.16	74.00	29.16	peak	
4	*	2416.700	85.38	8.38	93.76	54.00	39.76	AVG	



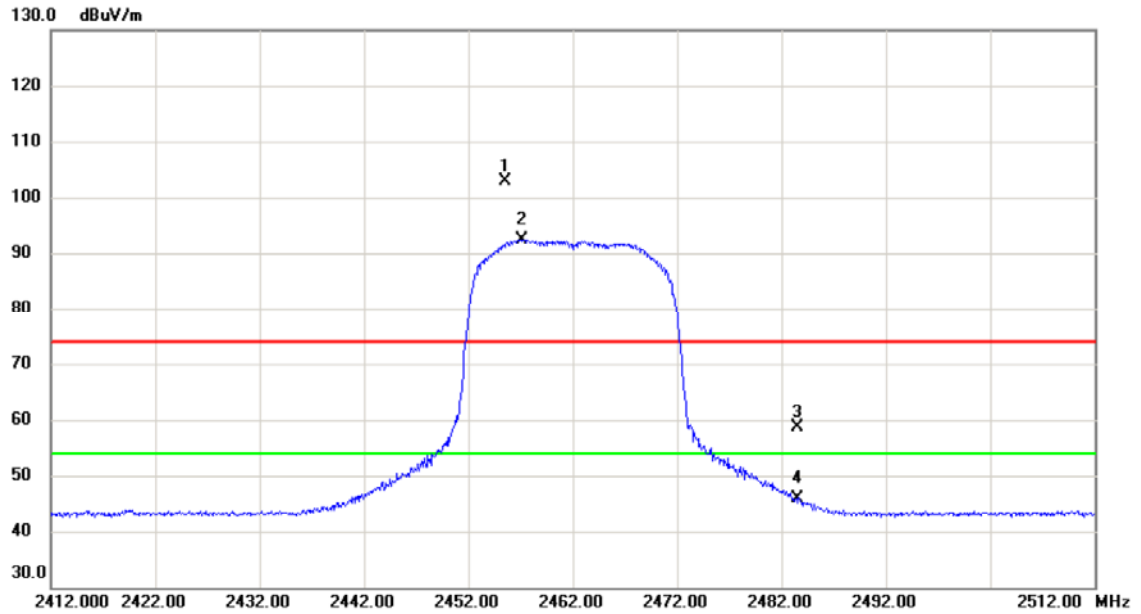
CH11_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2456.300	92.63	8.58	101.21	74.00	27.21	peak	
2	*	2456.700	82.90	8.58	91.48	54.00	37.48	AVG	
3		2483.500	48.31	8.72	57.03	74.00	-16.97	peak	
4		2483.500	37.43	8.72	46.15	54.00	-7.85	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	2455.600	94.37	8.57	102.94	74.00	28.94	peak	
2	*	2457.100	83.90	8.58	92.48	54.00	38.48	AVG	
3		2483.500	49.97	8.72	58.69	74.00	-15.31	peak	
4		2483.500	37.18	8.72	45.90	54.00	-8.10	AVG	

Note: Measurement uncertainty is 3.85 dB.

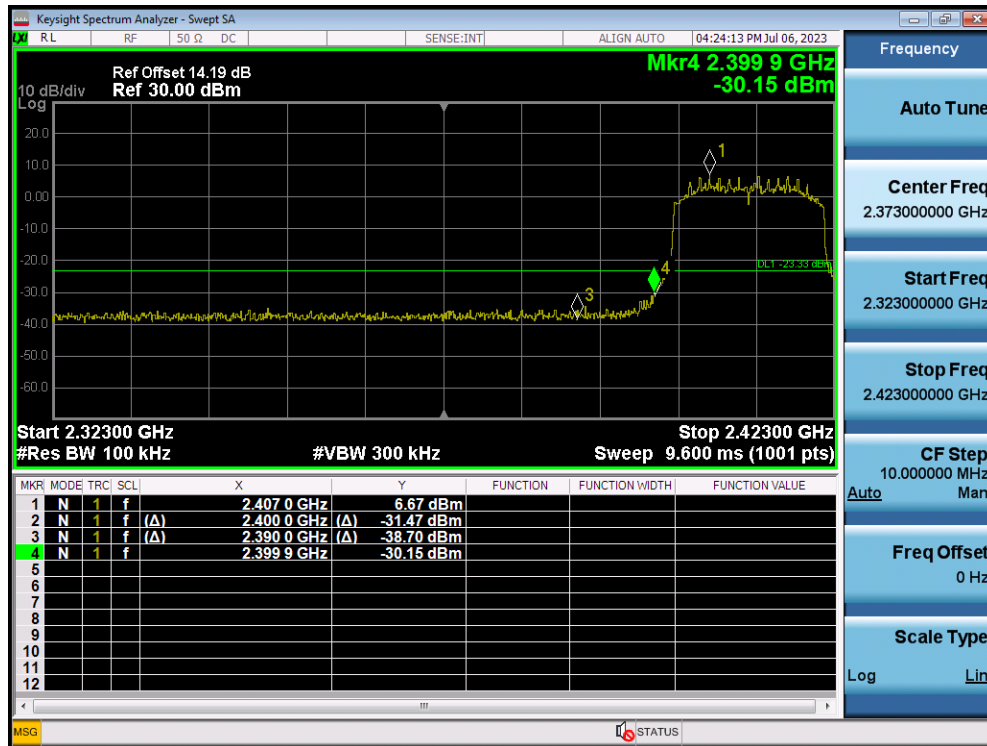


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CH01 :



CH11 :



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Conducted Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11ax - HE40
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)
2422	2.92	2452	2.37

Frequency	Bandedge	amplitude difference (dBc)	Limit in 4.10.1.5	Result
< 2.4 GHz	-38.17	41.09	20 dB	Pass
> 2.4835 GHz	-37.3	39.67	20 dB	Pass



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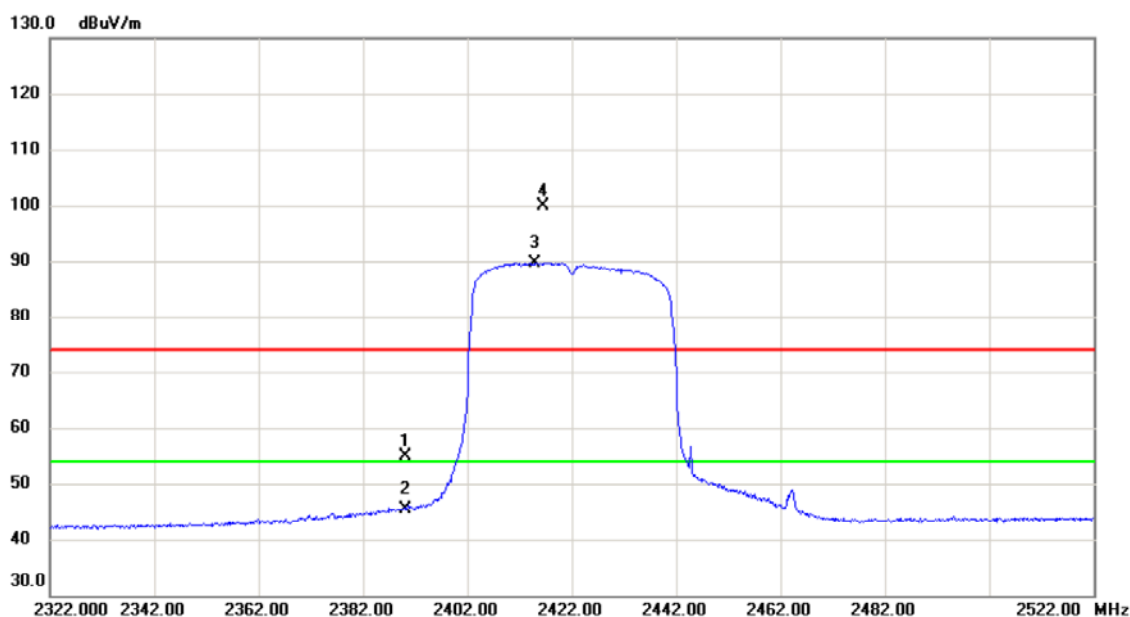
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Radiated Test

Temperature:	28 °C	Humidity:	70 %RH
Frequency Range:	2.3 ~ 2.6 GHz	Tested Mode:	802.11ax - HE40
Detector Type:	PK. and AV.	IF Bandwidth:	100 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 07, 2023

CH03_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	46.66	8.28	54.94	74.00	-19.06	peak	
2		2390.000	37.03	8.28	45.31	54.00	-8.69	AVG	
3	*	2414.800	81.24	8.37	89.61	54.00	35.61	AVG	
4	X	2416.600	91.45	8.38	99.83	74.00	25.83	peak	



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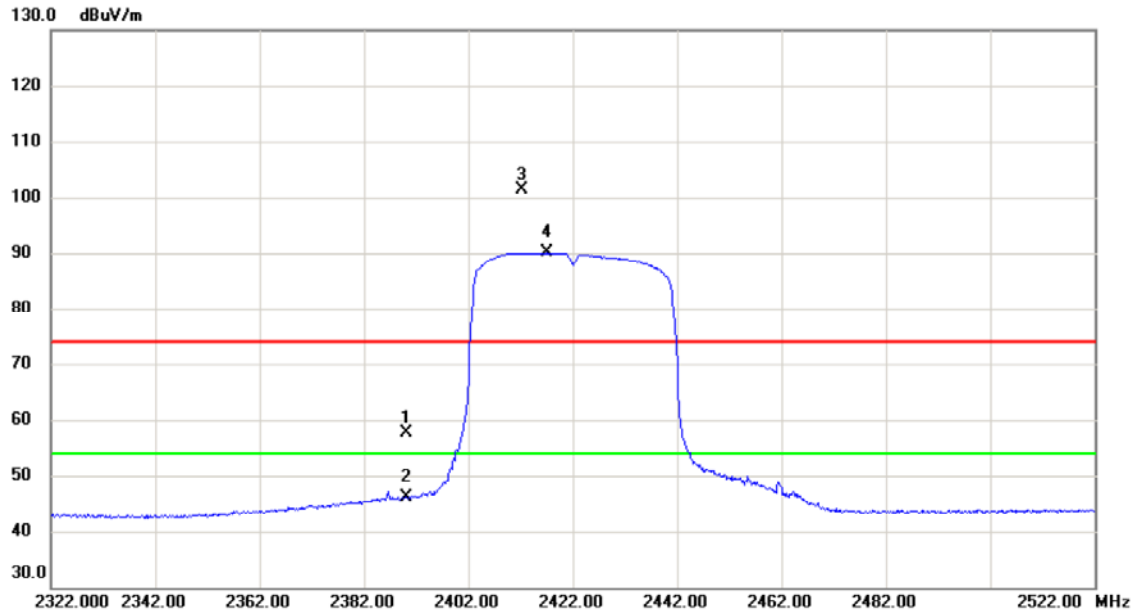
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CH03_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	49.40	8.28	57.68	74.00	-16.32	peak	
2		2390.000	37.88	8.28	46.16	54.00	-7.84	AVG	
3	X	2412.200	93.03	8.36	101.39	74.00	27.39	peak	
4	*	2417.200	81.68	8.38	90.06	54.00	36.06	AVG	



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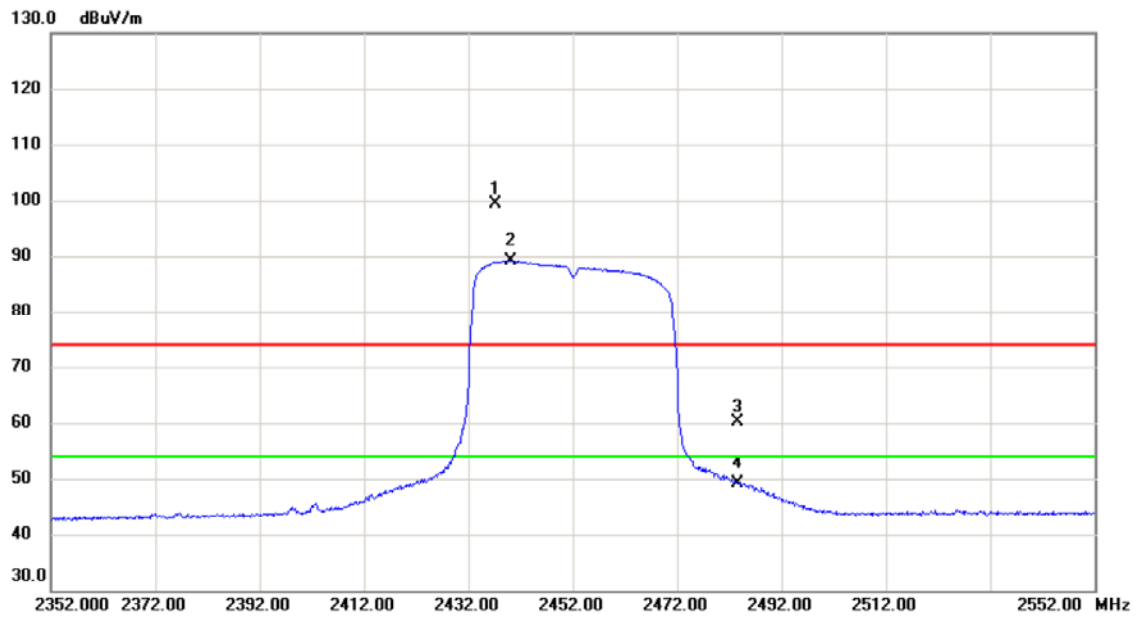
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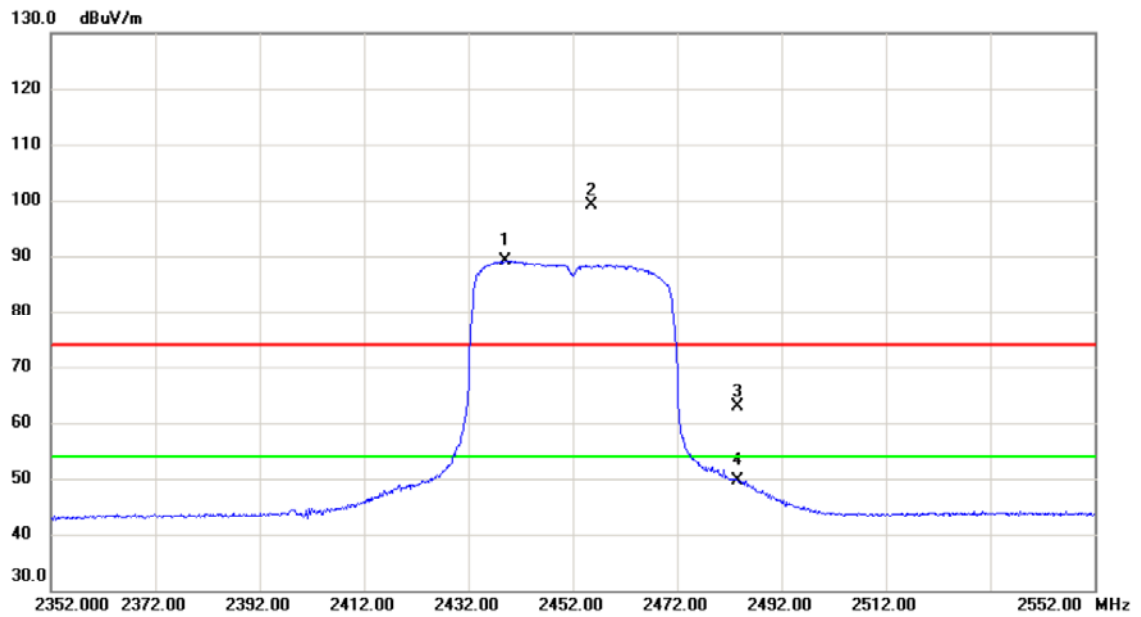
CH09_Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.200	90.82	8.49	99.31	74.00	25.31	peak	
2	*	2440.200	80.66	8.50	89.16	54.00	35.16	AVG	
3		2483.500	51.34	8.72	60.06	74.00	-13.94	peak	
4		2483.500	40.45	8.72	49.17	54.00	-4.83	AVG	



CH09_Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.000	80.58	8.50	89.08	54.00	35.08	AVG	
2	X	2455.600	90.52	8.57	99.09	74.00	25.09	peak	
3		2483.500	54.19	8.72	62.91	74.00	-11.09	peak	
4		2483.500	41.01	8.72	49.73	54.00	-4.27	AVG	

Note: Measurement uncertainty is 3.85 dB.

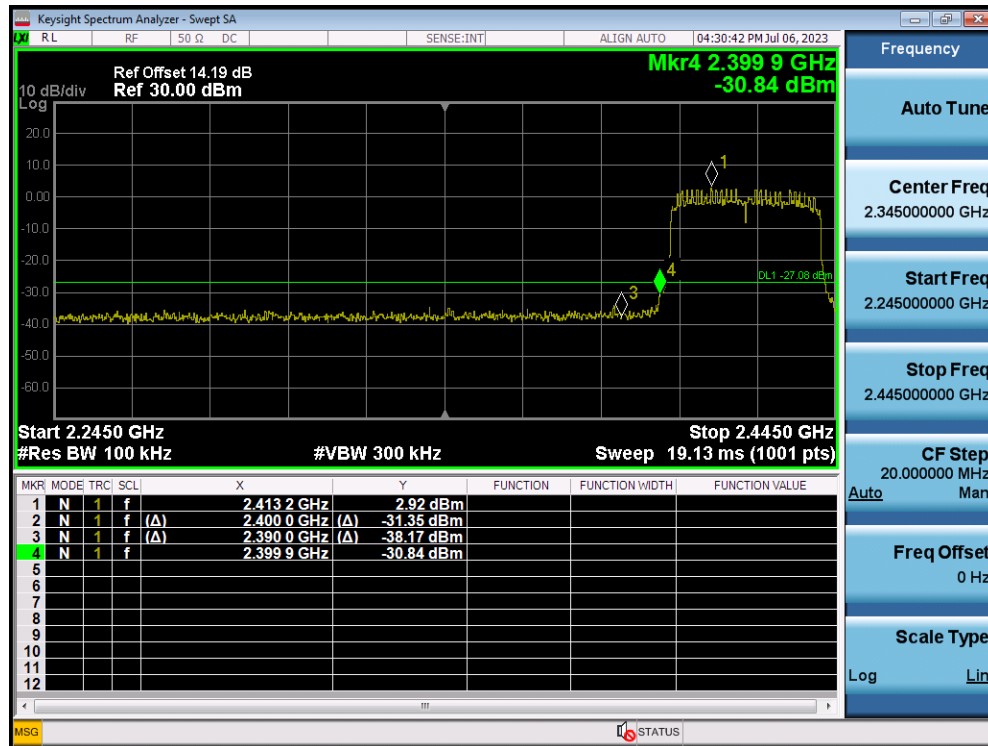


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4.6 POWER SPECTRAL DENSITY TEST

4.6.1 LIMIT

FCC Part15, Subpart C Section 15.247(e).

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

FREQUENCY RANGE	Limit
2.40 - 2.4835 GHz	8 dBm / 3 kHz

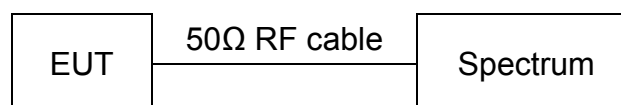
4.6.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
EMI Test Receiver (Include Spectrum Analyzer)	9 KHz ~ 6 GHz	ROHDE & SCHWARZ	ESL6 / 100176	SEP. 06, 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.

4.6.3 TEST SET-UP



4.6.4 TEST PROCEDURE

The EUT was operating in transmitter mode and could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.6.5 EUT OPERATING CONDITION

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



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4.6.6 TEST RESULT

Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11b
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH01	2412	-1.32	8
CH06	2437	-1.43	8
CH11	2462	-2.92	8

CH01 :



CH06 :



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CH11 :

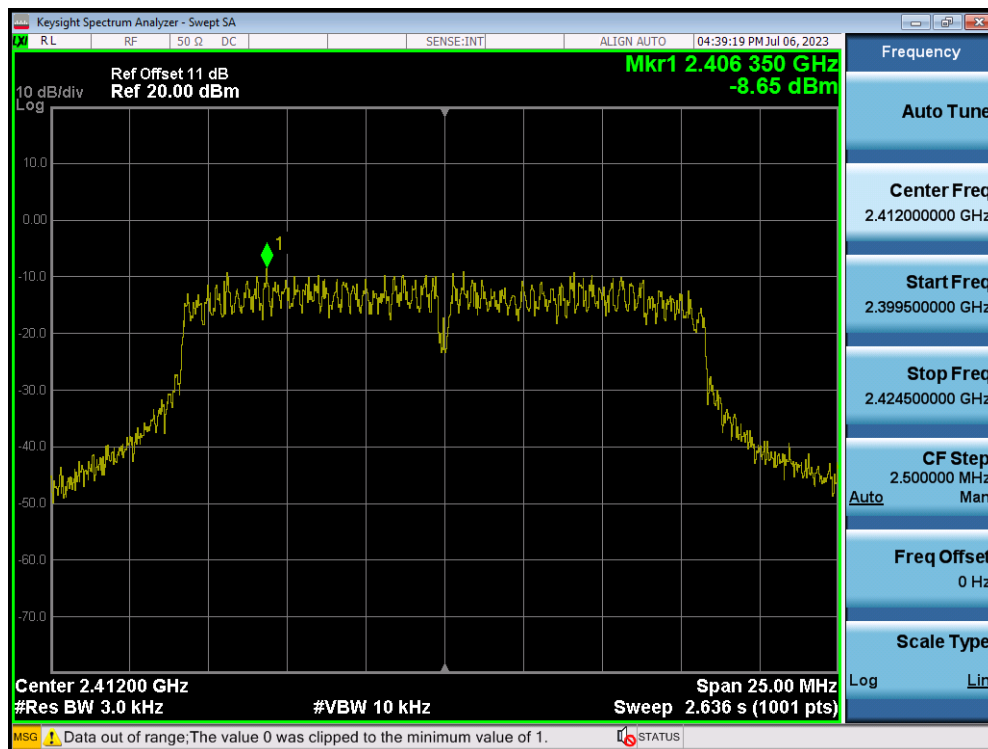


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Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11g
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH01	2412	-1.32	8
CH06	2437	-1.43	8
CH11	2462	-2.92	8

CH01 :



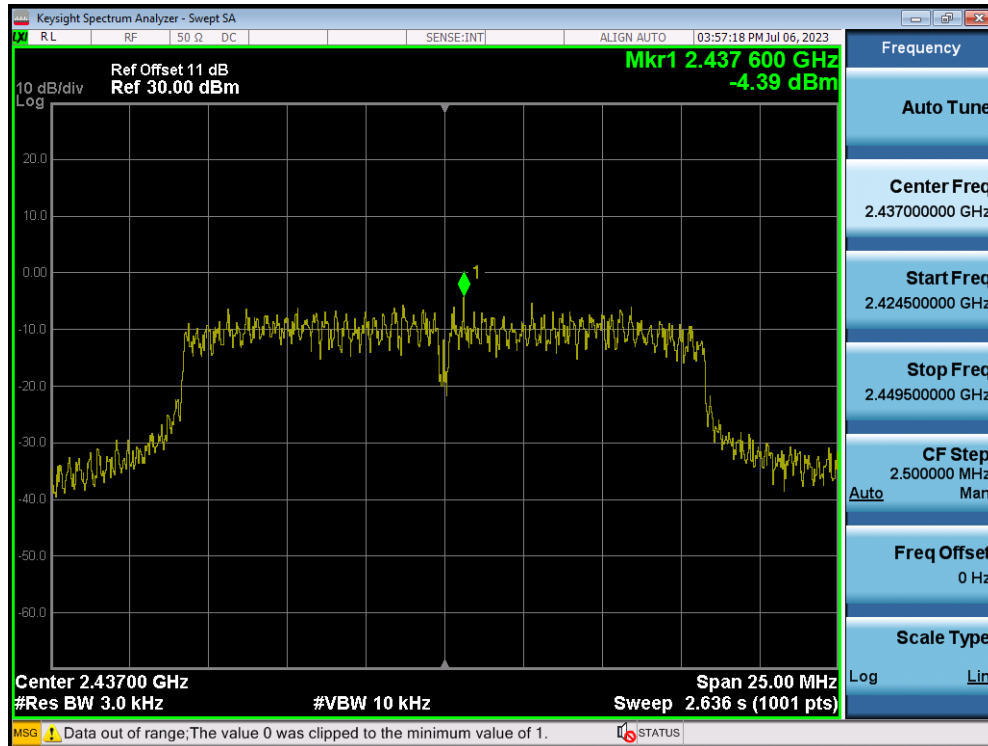


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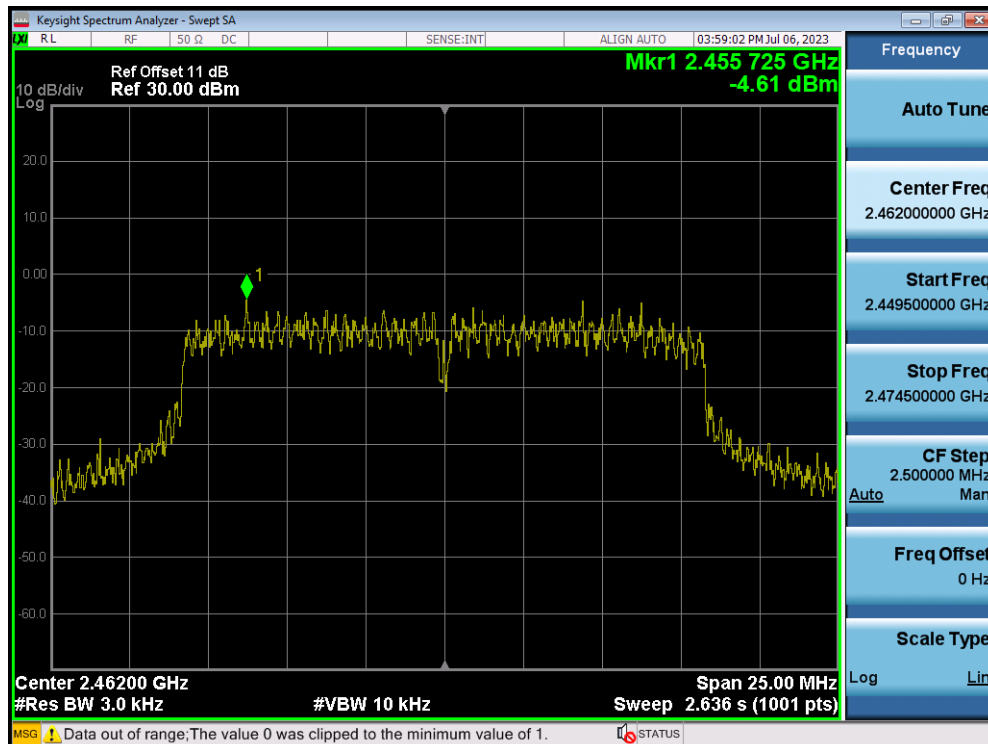
TEST REPORT

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CH06 :



CH11 :

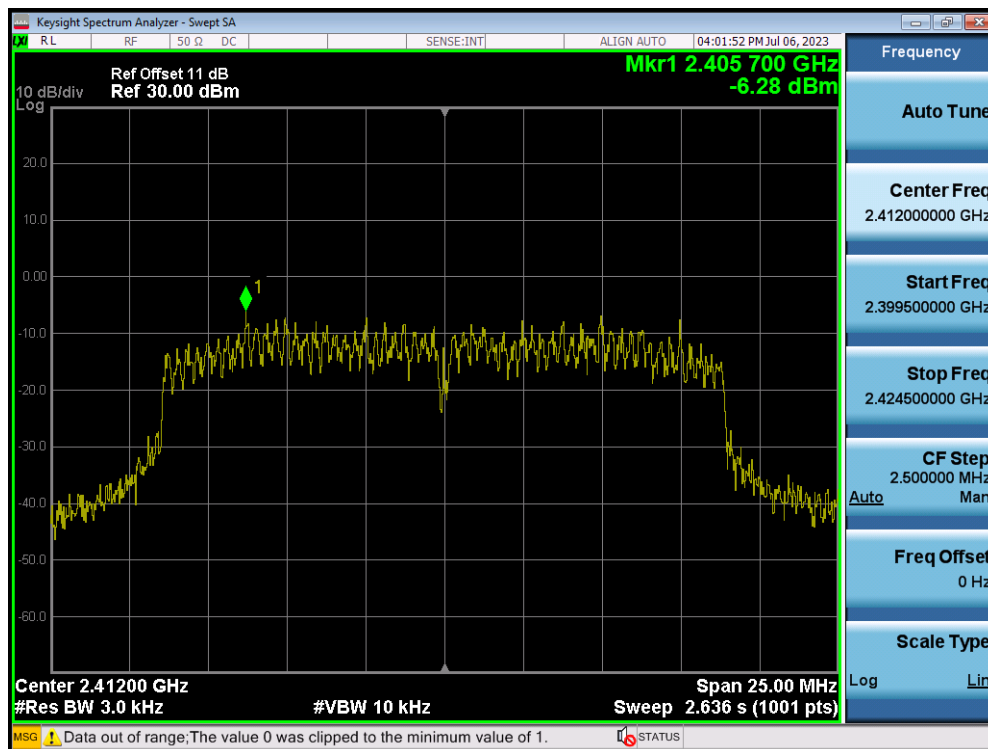


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Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11n - HT20
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH01	2412	-6.28	8
CH06	2437	-7.05	8
CH11	2462	-7.34	8

CH01 :



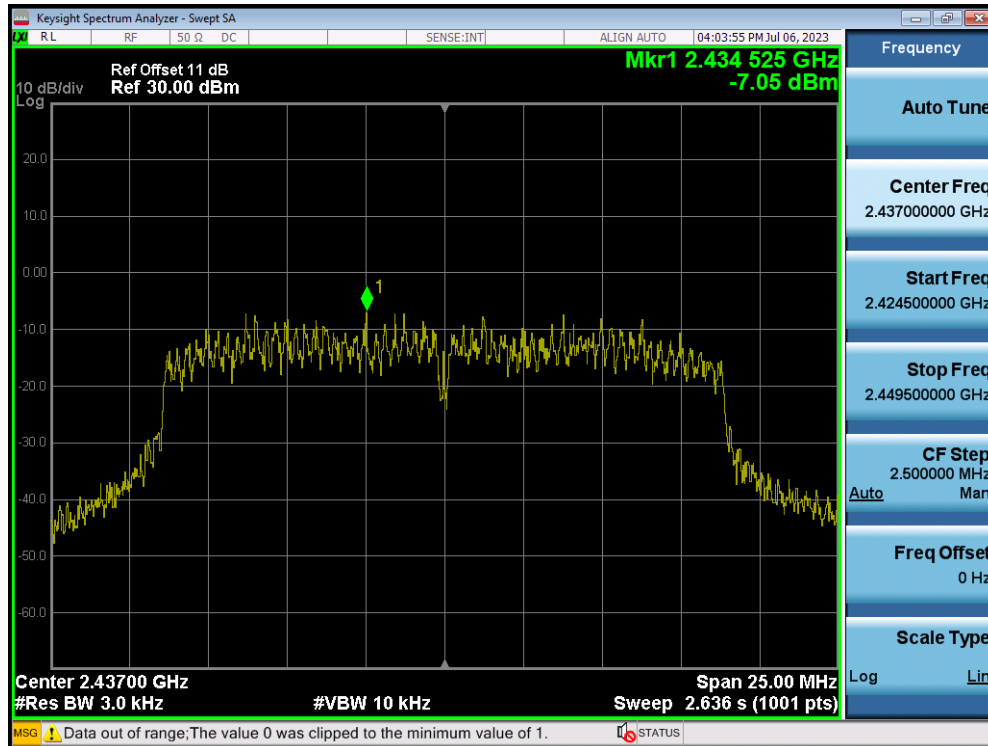


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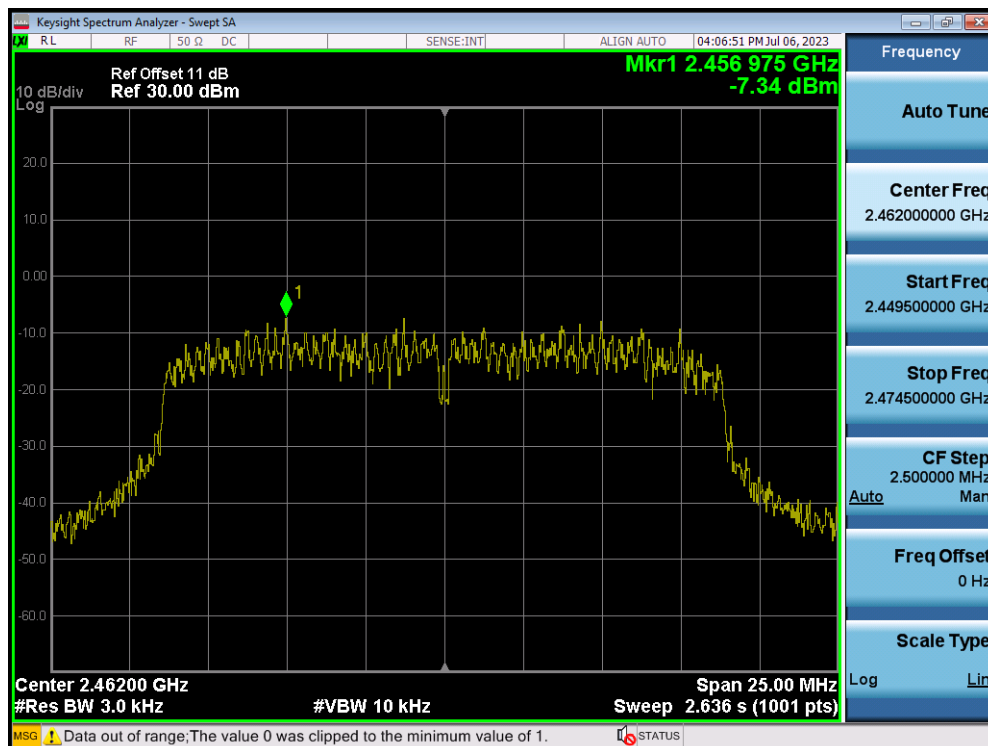
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CH06 :



CH11 :

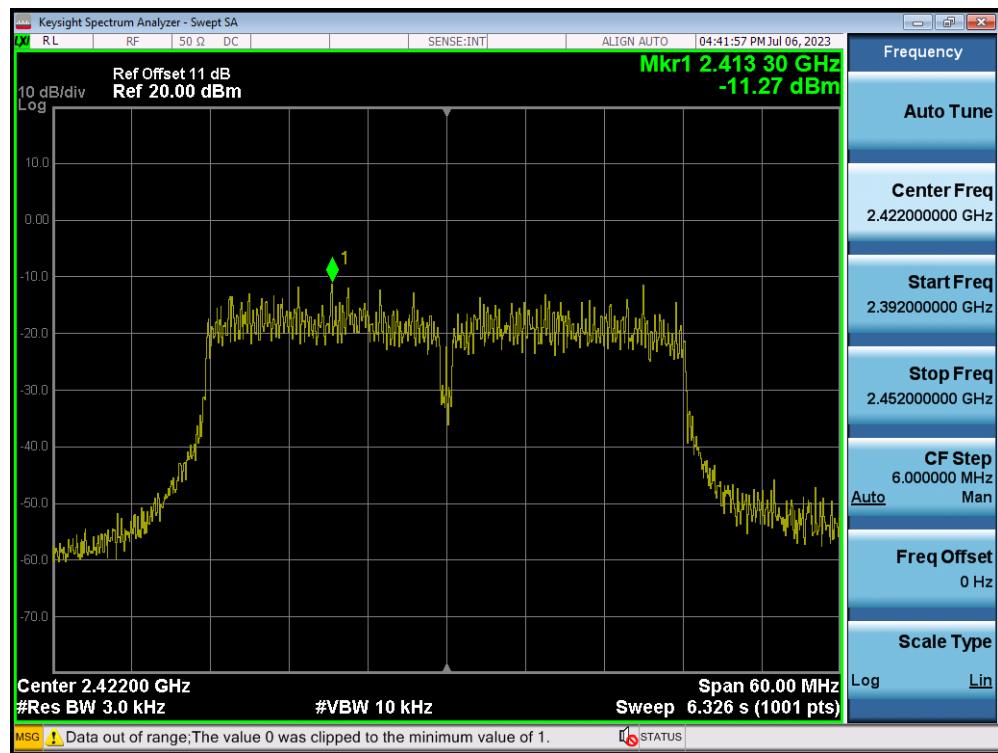


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Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11n - HT40
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH03	2422	-11.27	8
CH06	2437	-11.34	8
CH09	2452	-10.95	8

CH03 :



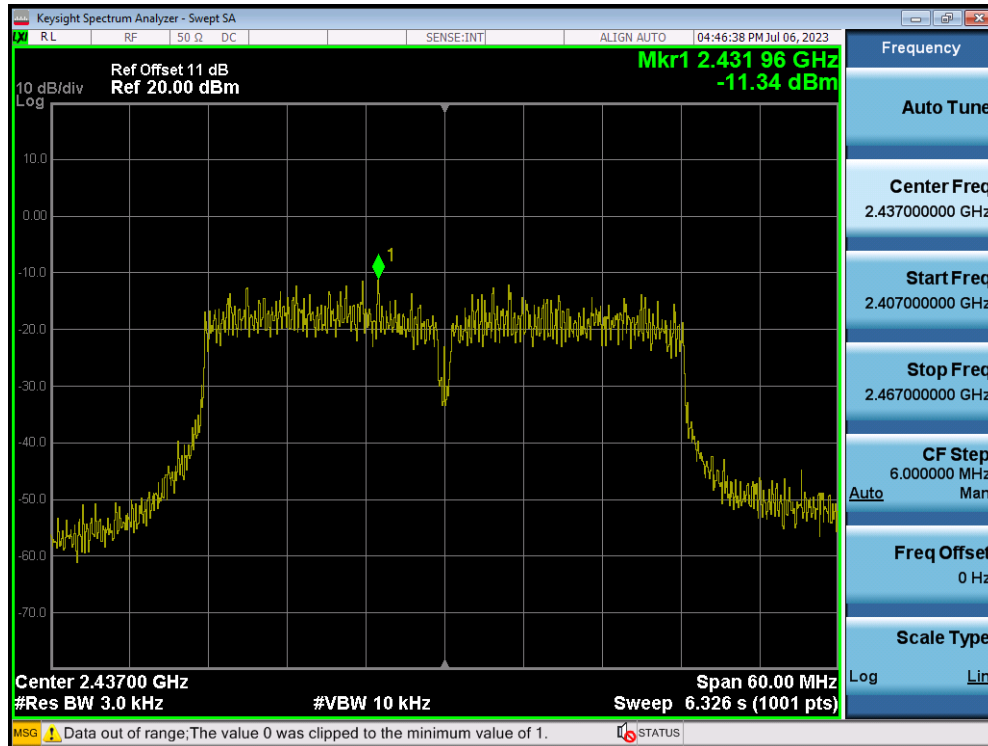


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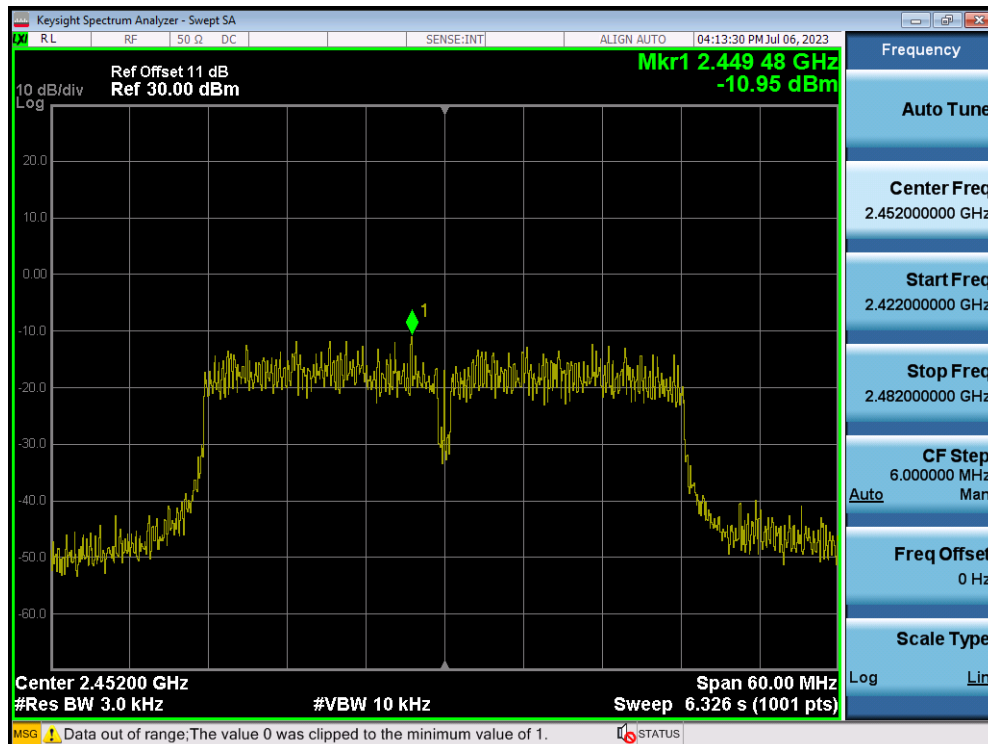
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CH06 :



CH09 :

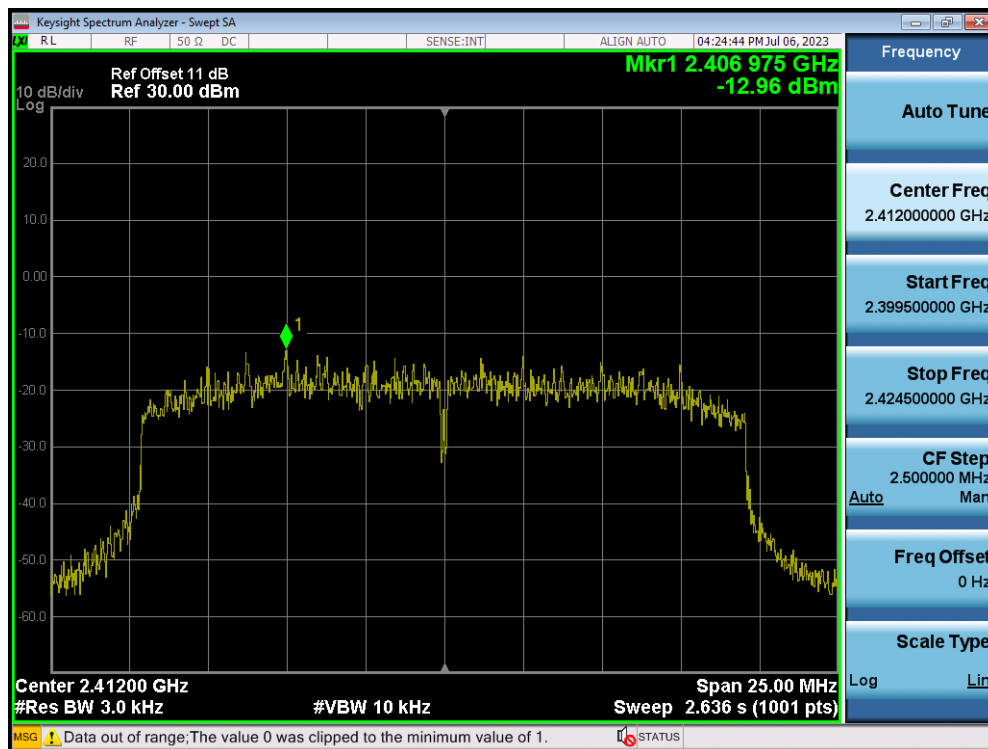


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Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11ax - HE20
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH01	2412	-12.96	8
CH06	2437	-12.10	8
CH11	2462	-12.72	8

CH01 :



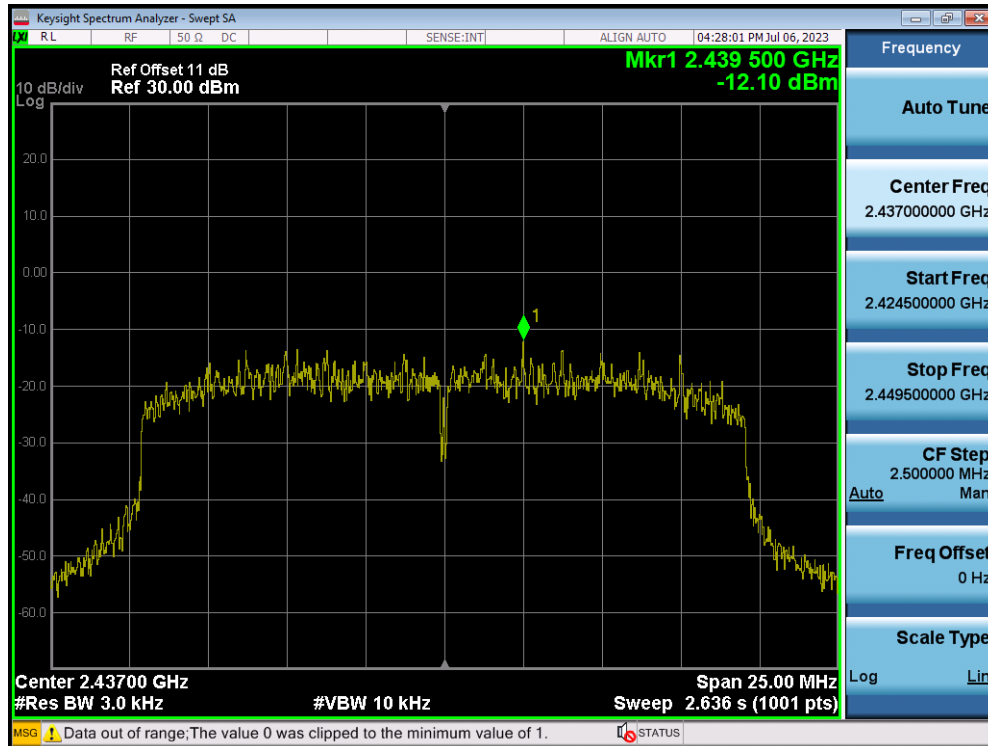


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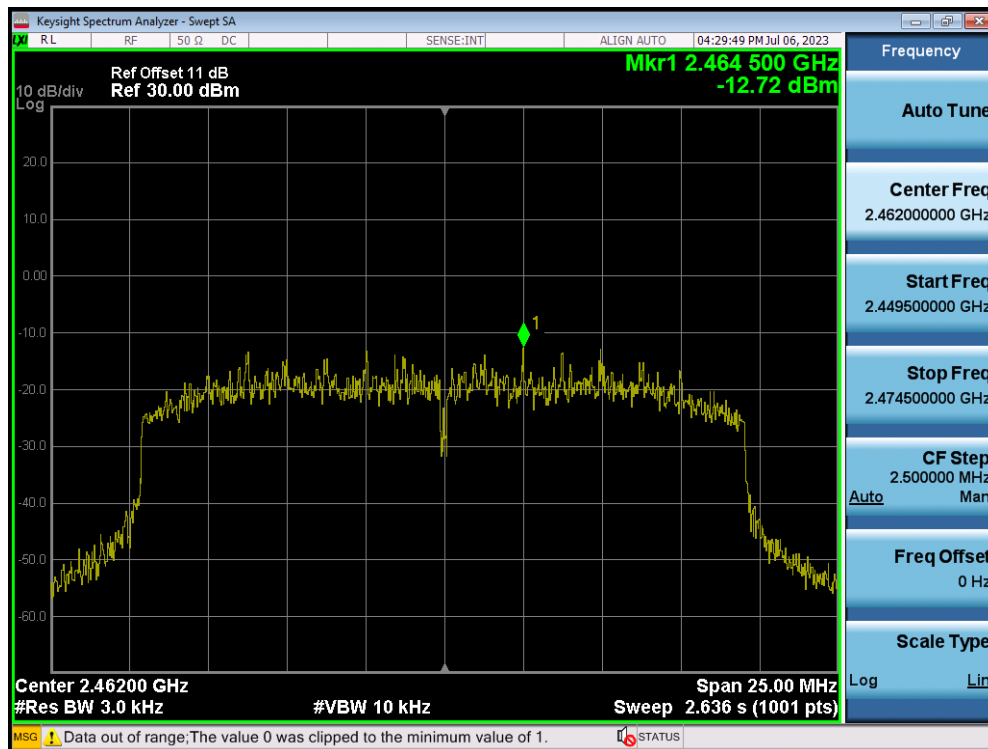
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CH06 :



CH11 :

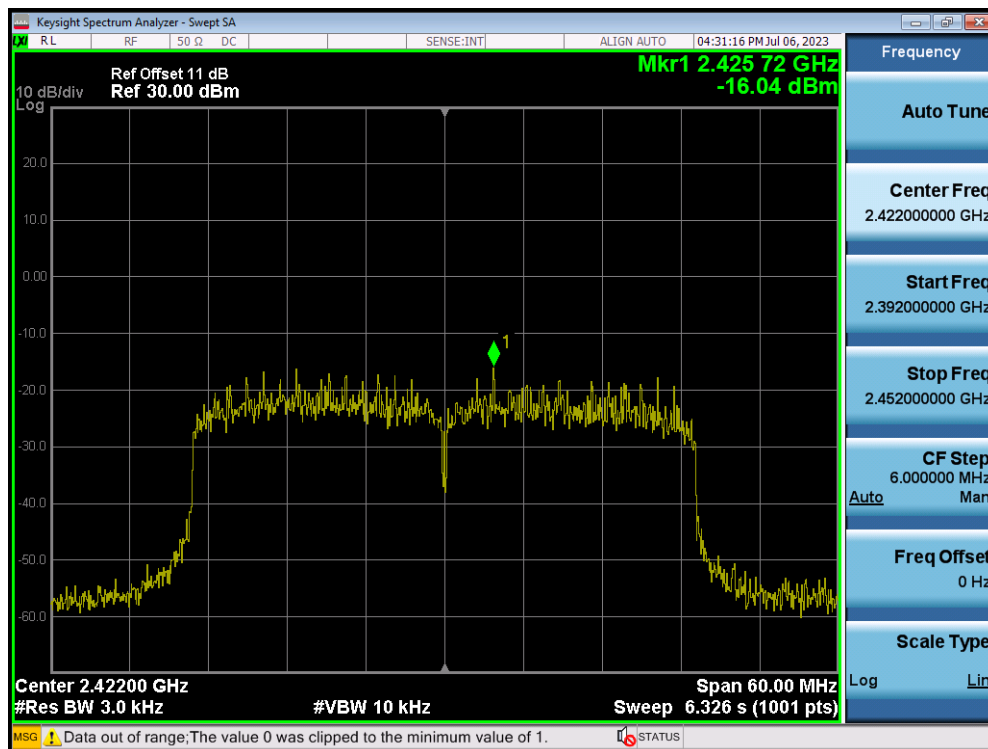


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		Date: Aug. 02, 2023

Temperature:	20 °C	Humidity:	78 %RH
Detector:	Peak	Test Mode:	802.11ax - HE40
RBW:	3 kHz	VBW:	10 kHz
Tested By:	Jimmy tseng	Tested Date:	Jul. 06, 2023

Channel Number	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)
CH03	2422	-16.04	8
CH06	2437	-15.66	8
CH09	2452	-14.75	8

CH03 :



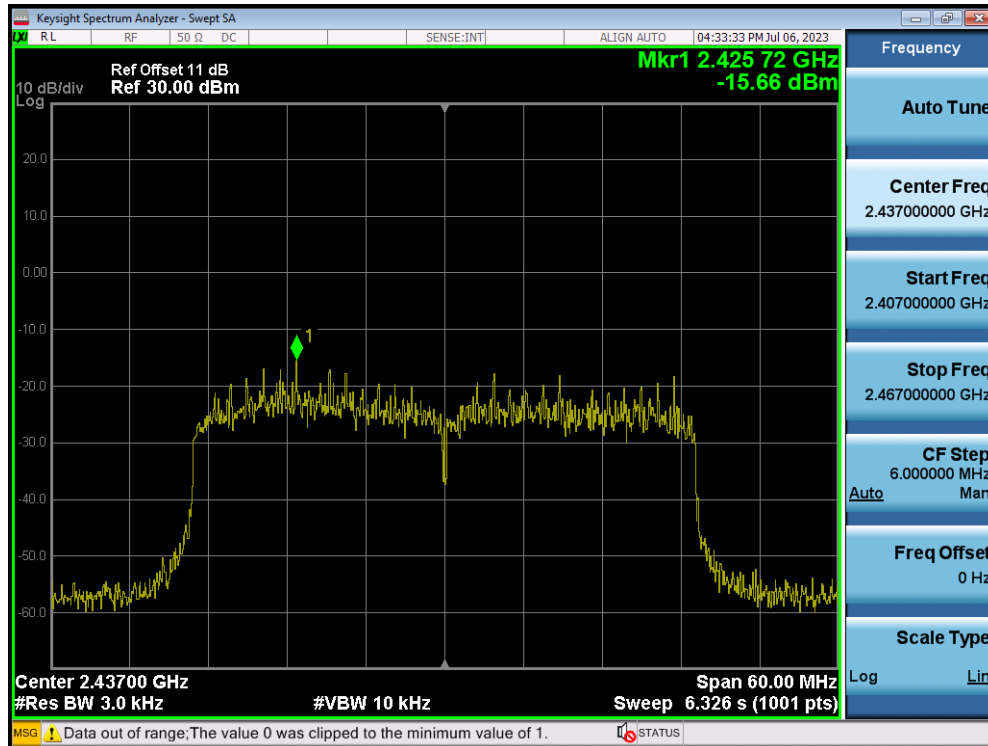


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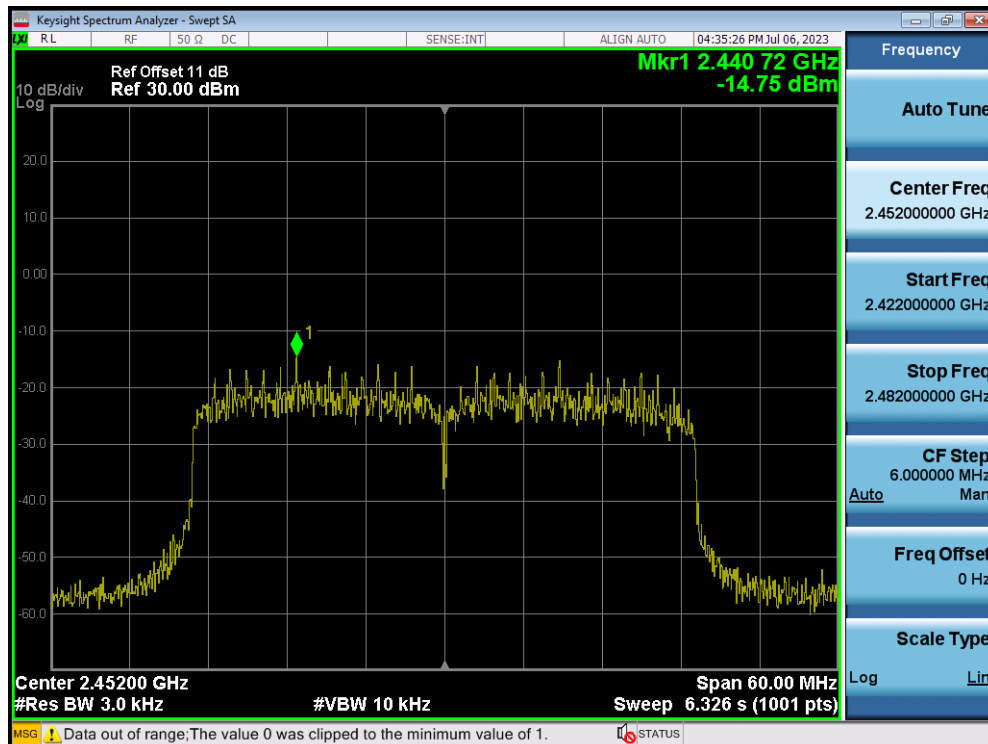
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CH06 :



CH09 :



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5. Antenna application

5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC Part 15C section 15.203 and 15.204.

FCC Part 15C section 15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Result

The EUT's antenna used a Dipole Antenna. Gain of 3.19 dBi that meet the requirement.

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6. TERMS OF ABBREVIATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction