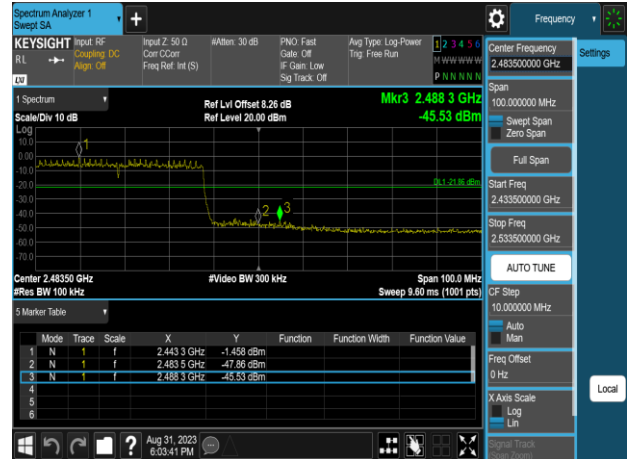


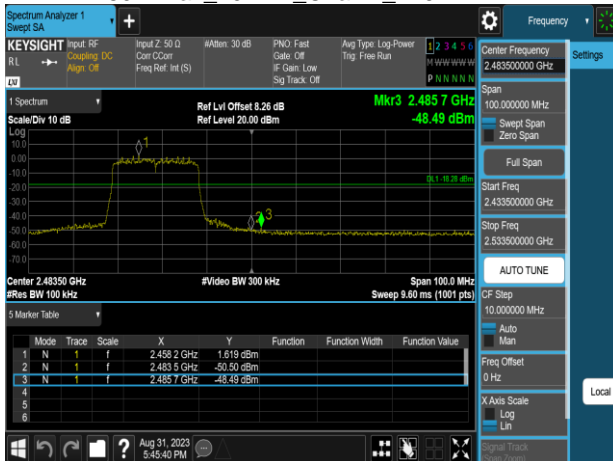
802.11ax\_20MHz\_Chain1\_2412MHz



802.11ax\_40MHz\_Chain0\_2452MHz



802.11ax\_20MHz\_Chain1\_2462MHz



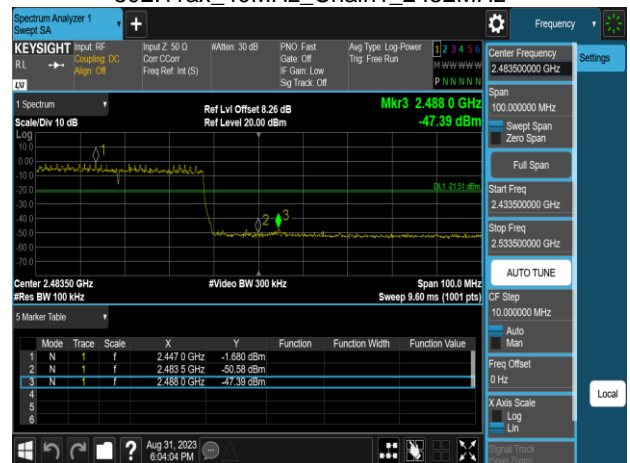
802.11ax\_40MHz\_Chain1\_2422MHz



802.11ax\_40MHz\_Chain0\_2422MHz

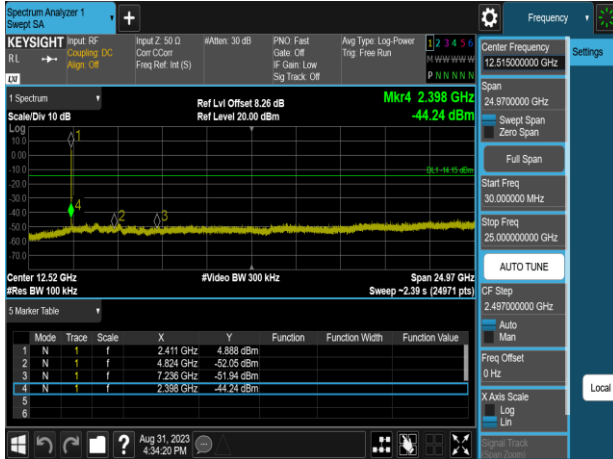


802.11ax\_40MHz\_Chain1\_2452MHz

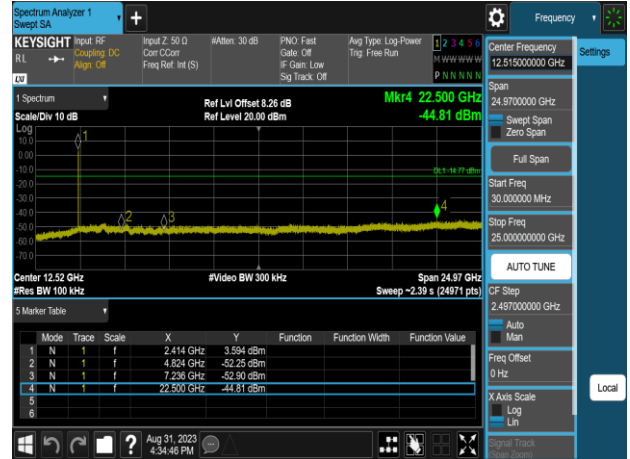


## Spurious Emission

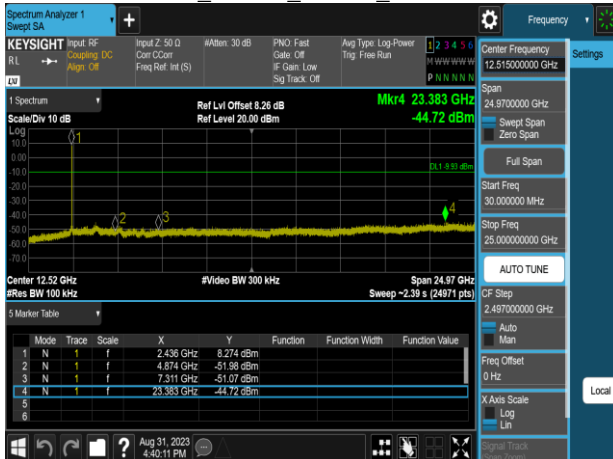
802.11b\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain1\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain1\_2437MHz



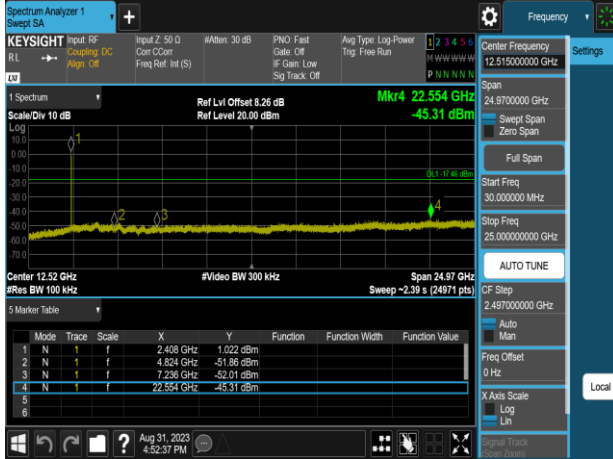
802.11b\_20MHz\_Chain0\_2462MHz



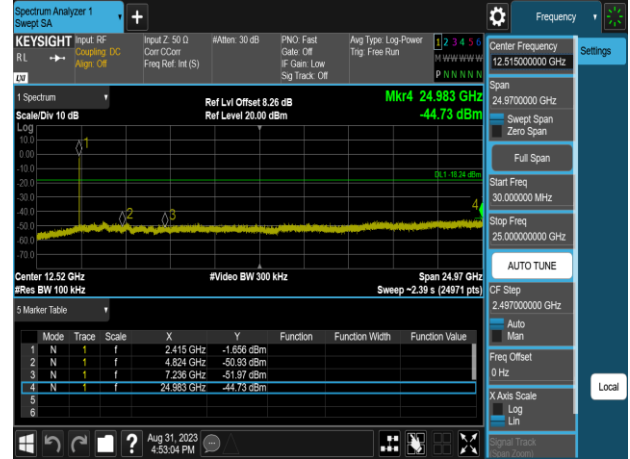
802.11b\_20MHz\_Chain1\_2462MHz



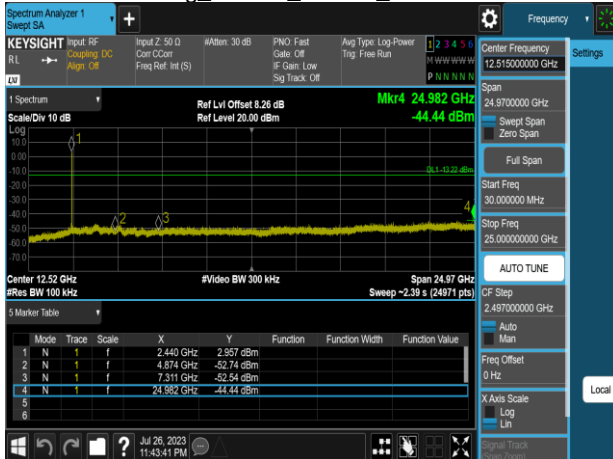
802.11g\_20MHz\_Chain0\_2412MHz



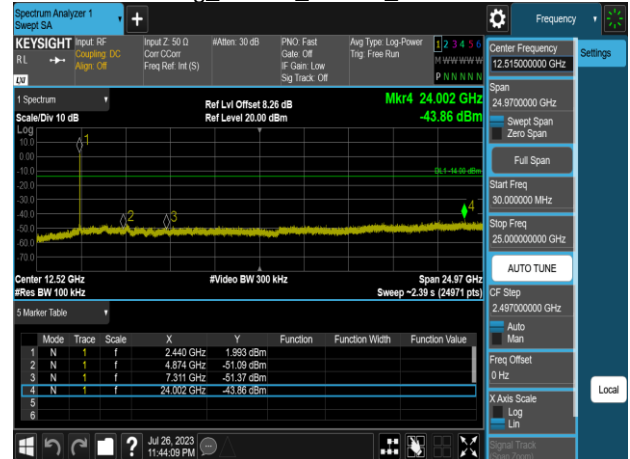
802.11g\_20MHz\_Chain1\_2412MHz



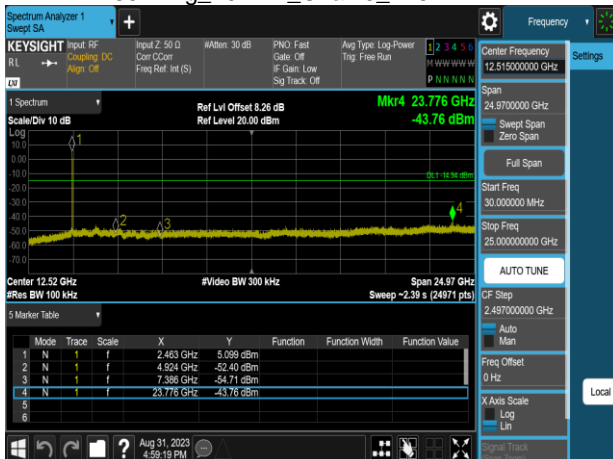
802.11g\_20MHz\_Chain0\_2437MHz



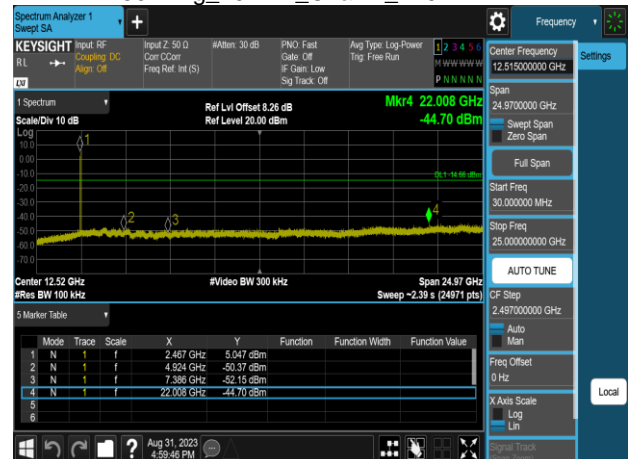
802.11g\_20MHz\_Chain1\_2437MHz



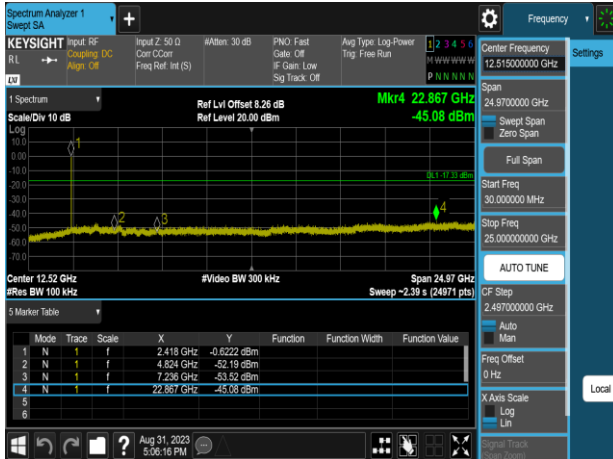
802.11g\_20MHz\_Chain0\_2462MHz



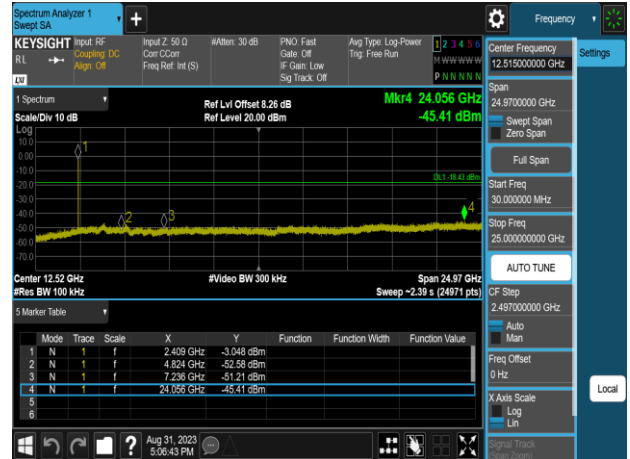
802.11g\_20MHz\_Chain1\_2462MHz



802.11n\_20MHz\_Chain0\_2412MHz



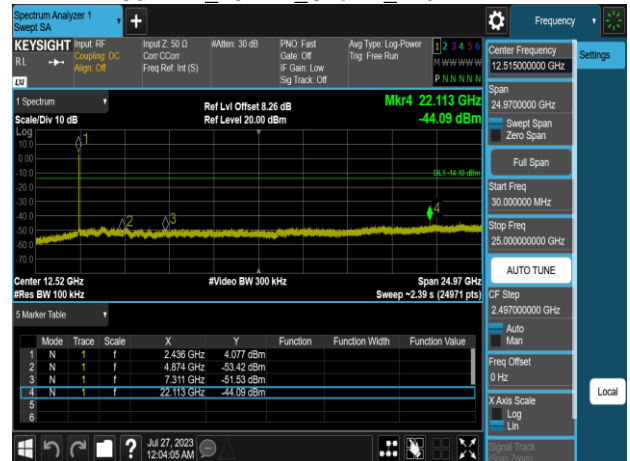
802.11n\_20MHz\_Chain1\_2412MHz



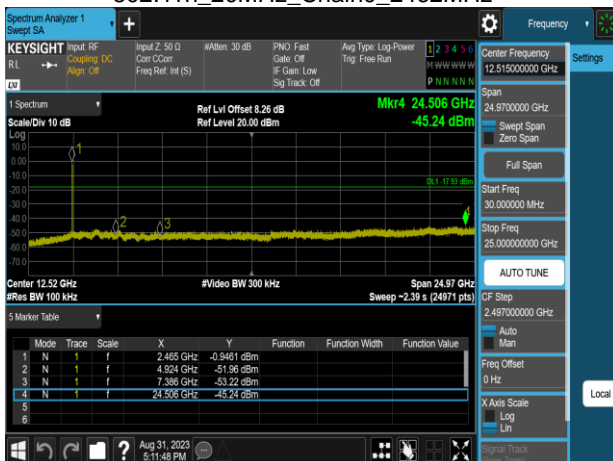
802.11n\_20MHz\_Chain0\_2437MHz



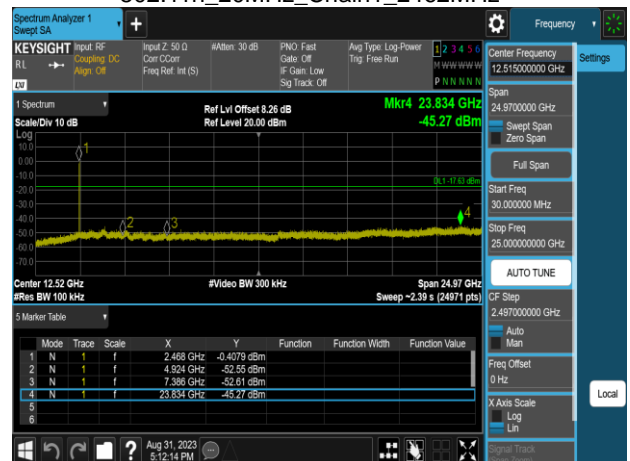
802.11n\_20MHz\_Chain1\_2437MHz



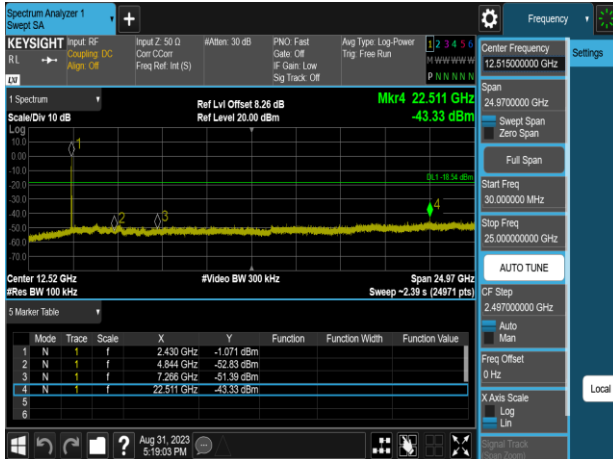
802.11n\_20MHz\_Chain0\_2462MHz



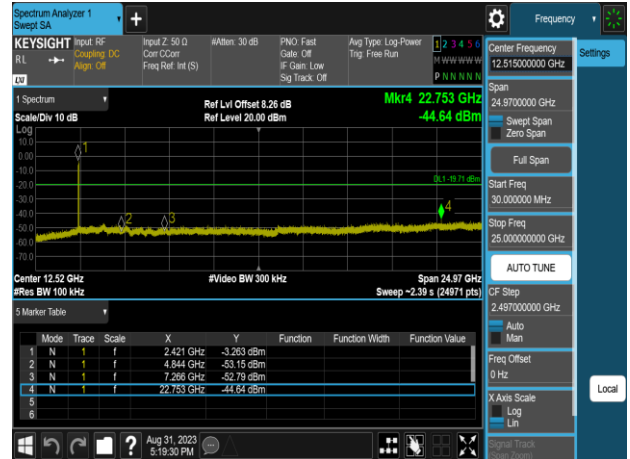
802.11n\_20MHz\_Chain1\_2462MHz



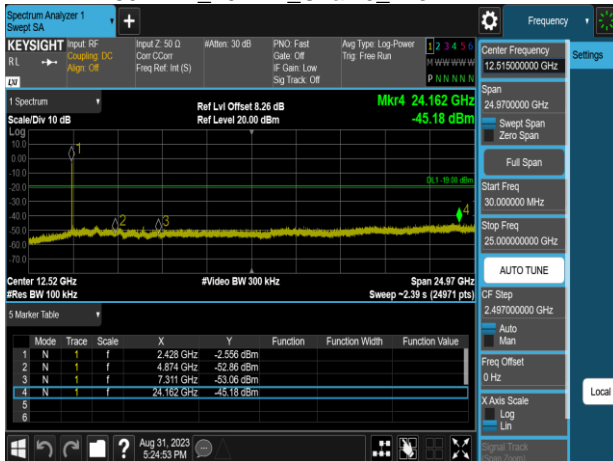
802.11n\_40MHz\_Chain0\_2422MHz



802.11n\_40MHz\_Chain1\_2422MHz



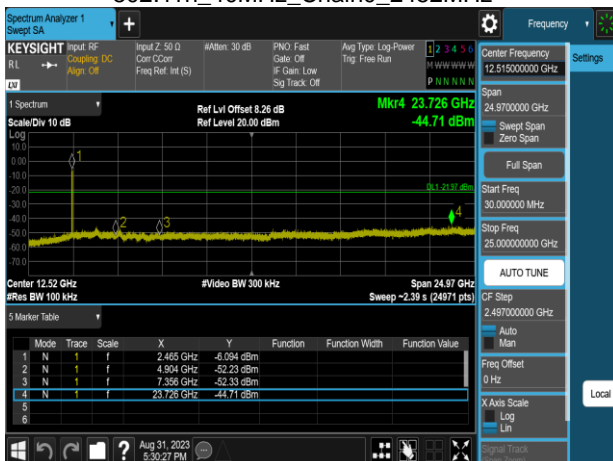
802.11n\_40MHz\_Chain0\_2437MHz



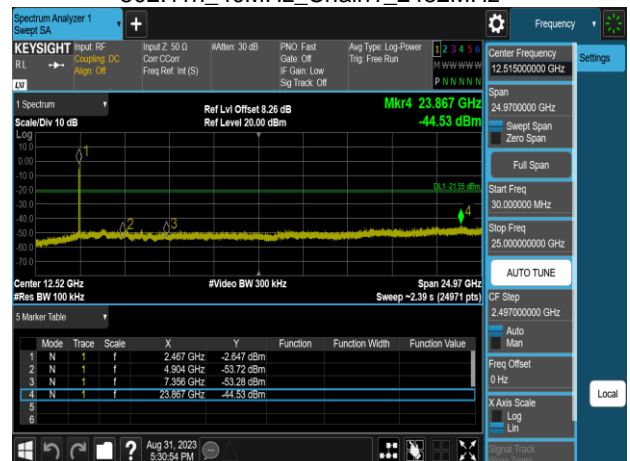
802.11n\_40MHz\_Chain1\_2437MHz



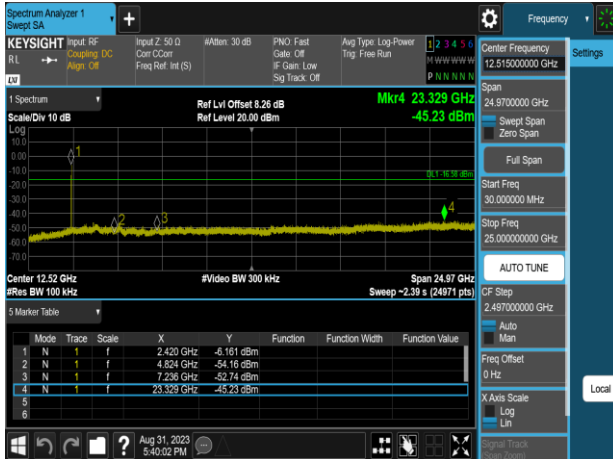
802.11n\_40MHz\_Chain0\_2452MHz



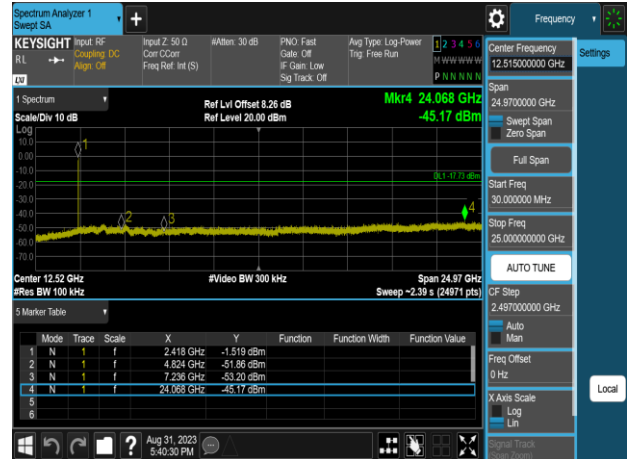
802.11n\_40MHz\_Chain1\_2452MHz



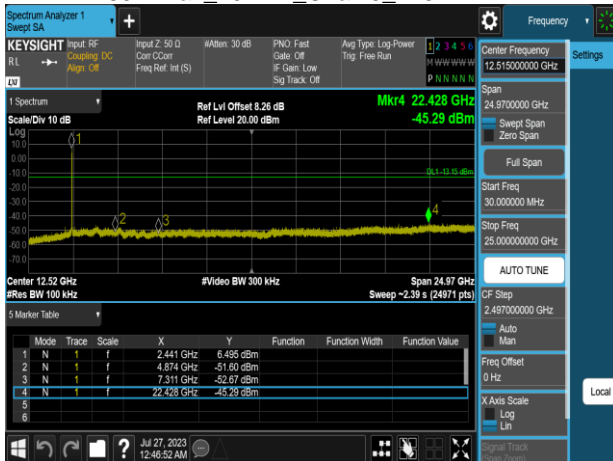
802.11ax\_20MHz\_Chain0\_2412MHz



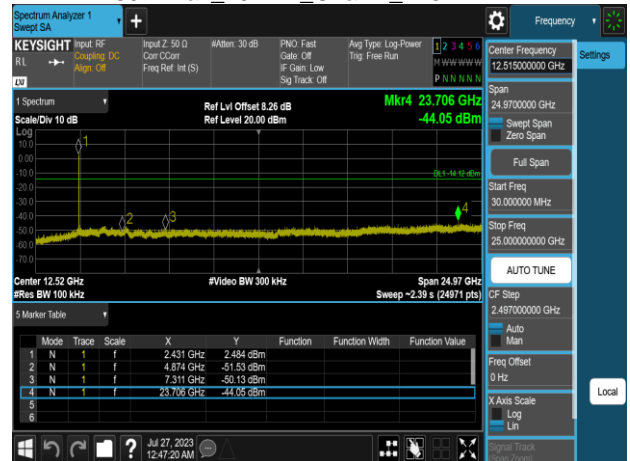
802.11ax\_20MHz\_Chain1\_2412MHz



802.11ax\_20MHz\_Chain0\_2437MHz



802.11ax\_20MHz\_Chain1\_2437MHz



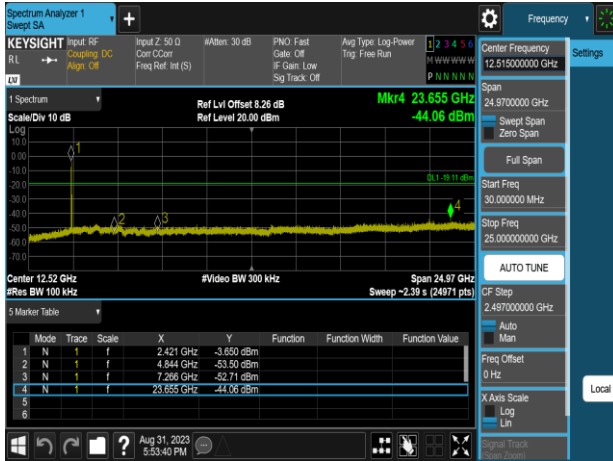
802.11ax\_20MHz\_Chain0\_2462MHz



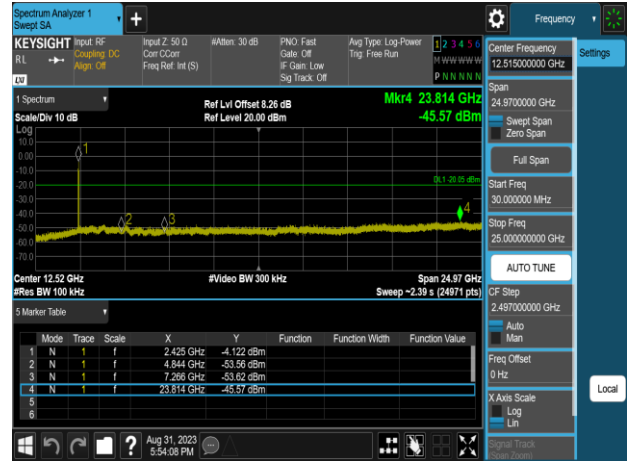
802.11ax\_20MHz\_Chain1\_2462MHz



802.11ax\_40MHz\_Chain0\_2422MHz



802.11ax\_40MHz\_Chain1\_2422MHz



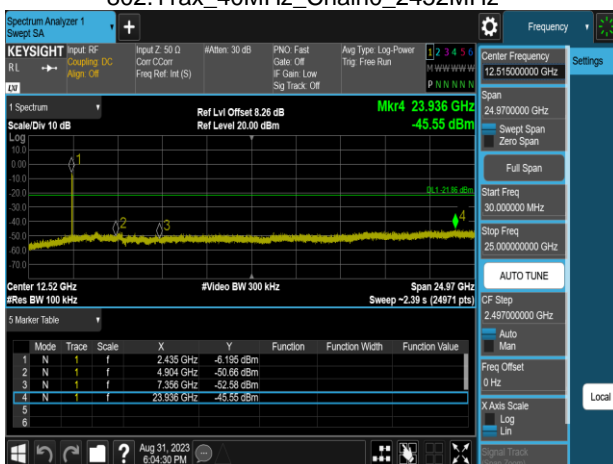
802.11ax\_40MHz\_Chain0\_2437MHz



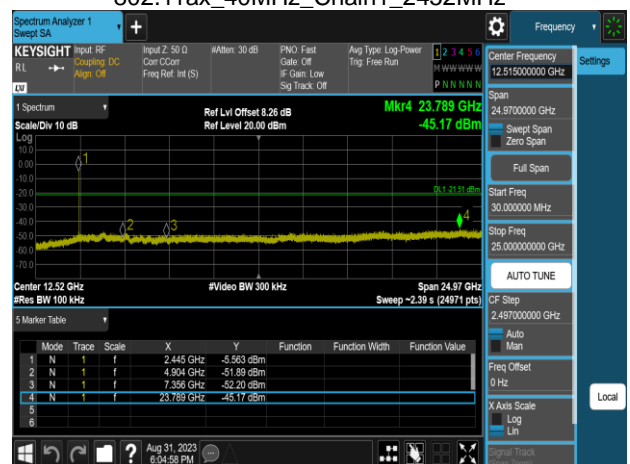
802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax\_40MHz\_Chain0\_2452MHz



802.11ax\_40MHz\_Chain1\_2452MHz



## 5.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 5.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

#### Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Remark:**

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



## 5.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4. The SA setting following :

- (1) Below 1G : RBW = 100kHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
- (2) Above 1G :
  - (2.1) For Peak measurement : RBW = 1MHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
  - (2.2) For Average measurement : RBW = 1MHz, VBW
    - \*If Duty Cycle  $\geq$  98%, VBW=10Hz.
    - \*If Duty Cycle < 98%, VBW=1/T.

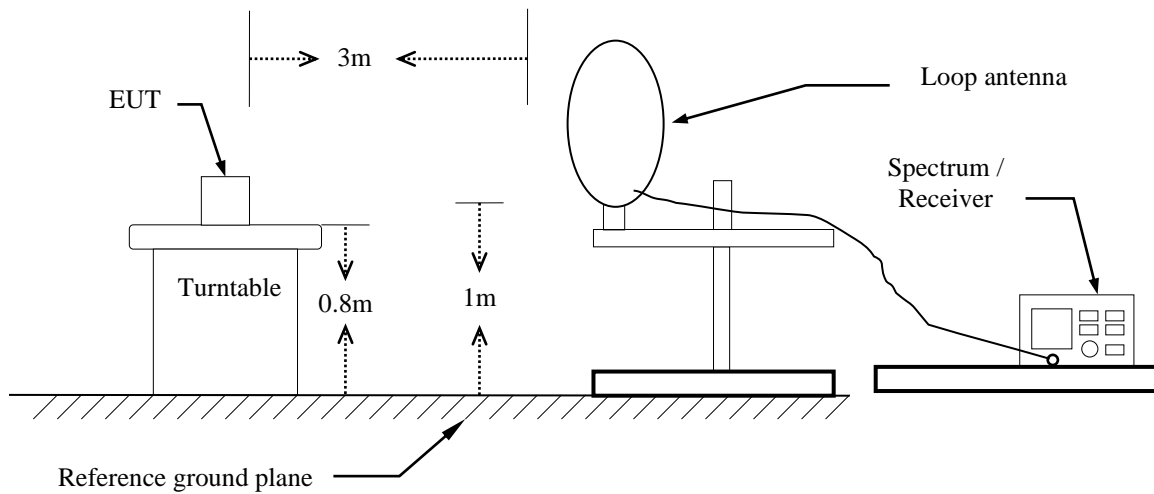
5. Data result :

Actual FS=Spectrum Reading Level + Factor

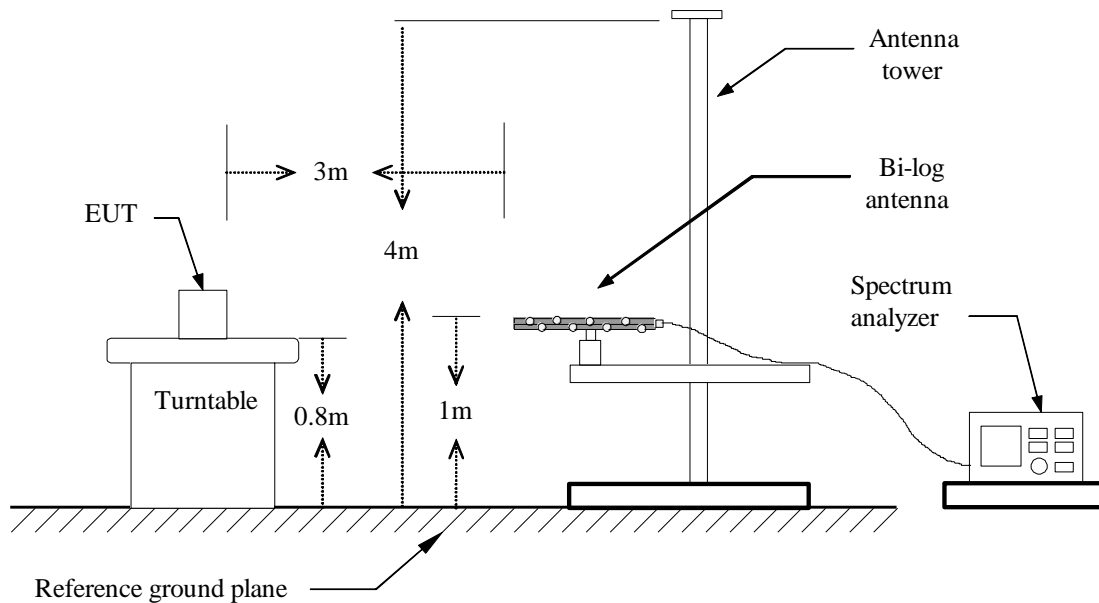
Margin=Actual FS- Limit

## 5.6.3 Test Setup

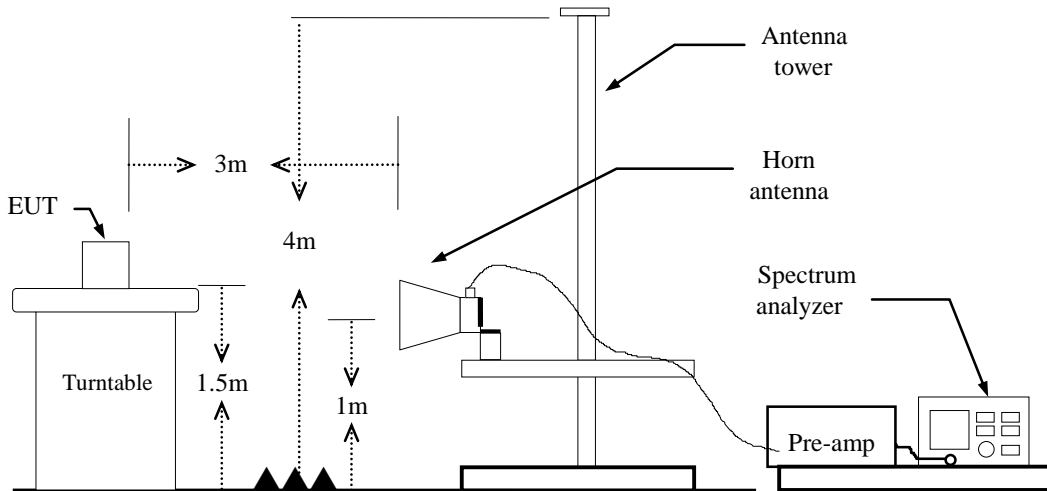
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



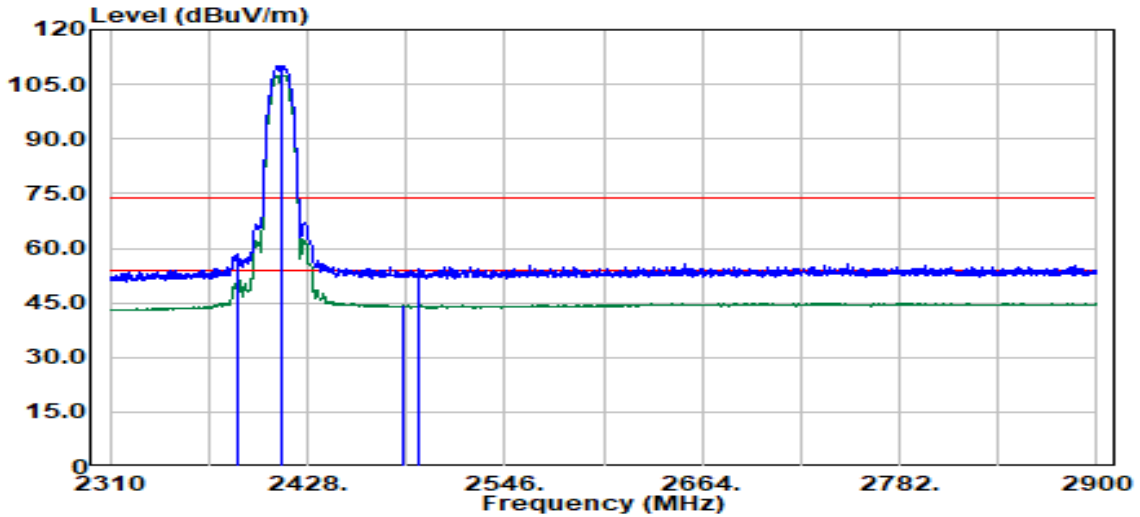
## Above 1 GHz



### 5.6.4 Test Result

#### Band Edge Test Data

Report Number	:TMWK2307002435KR	Test Date	:2023-08-23
Operation Band	:802.11b	Temp./Humi.	:24.6/60
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:16		



Trace: 1

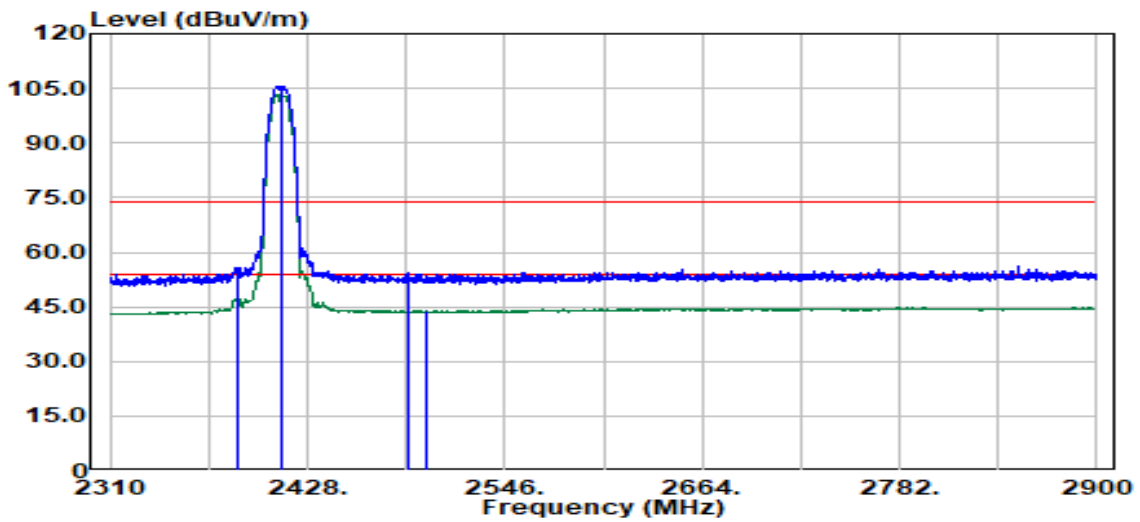
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2386.03	Peak	53.49	4.80	58.29	74.00	-15.71
2387.03	Average	48.20	4.80	53.01	54.00	-0.99
2412.00	Peak	105.52	4.54	110.05	--	--
2412.00	Average	102.93	4.54	107.46	--	--
2484.82	Average	39.67	4.60	44.27	54.00	-9.73
2494.58	Peak	49.76	4.59	54.36	74.00	-19.64

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11b  
 Frequency :2412 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :16

Test Date :2023-08-23  
 Temp./Humi. :24.6/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



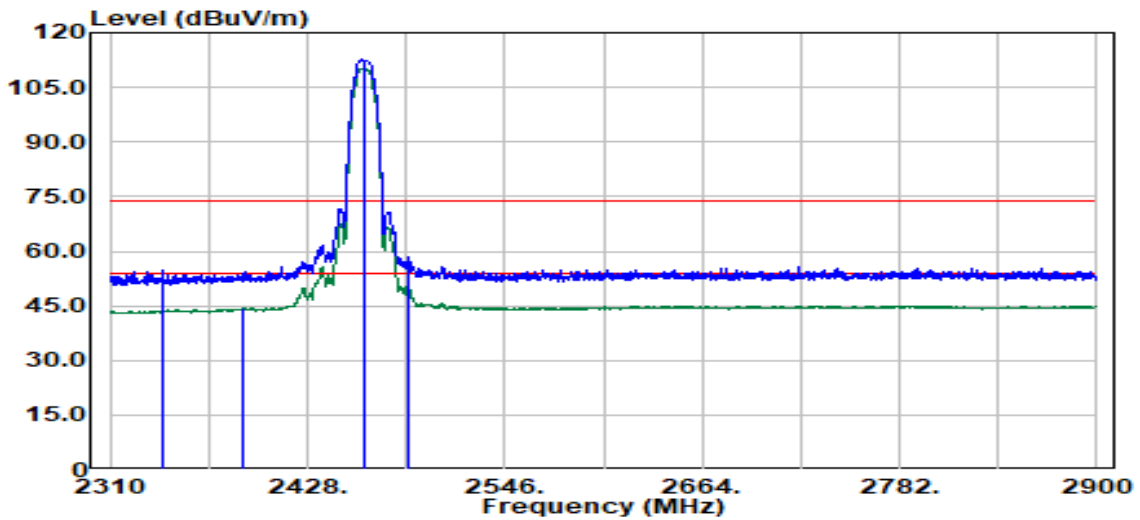
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2385.53	Peak	50.75	4.80	55.55	74.00	-18.45
2385.53	Average	42.76	4.80	47.56	54.00	-6.44
2412.00	Peak	101.15	4.54	105.69	--	--
2412.00	Average	98.62	4.54	103.16	--	--
2489.08	Peak	49.97	4.56	54.53	74.00	-19.47
2498.58	Average	39.29	4.64	43.93	54.00	-10.07

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-23
Operation Band	:802.11b	Temp./Humi.	:24.6/60
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:17		



Trace: 1

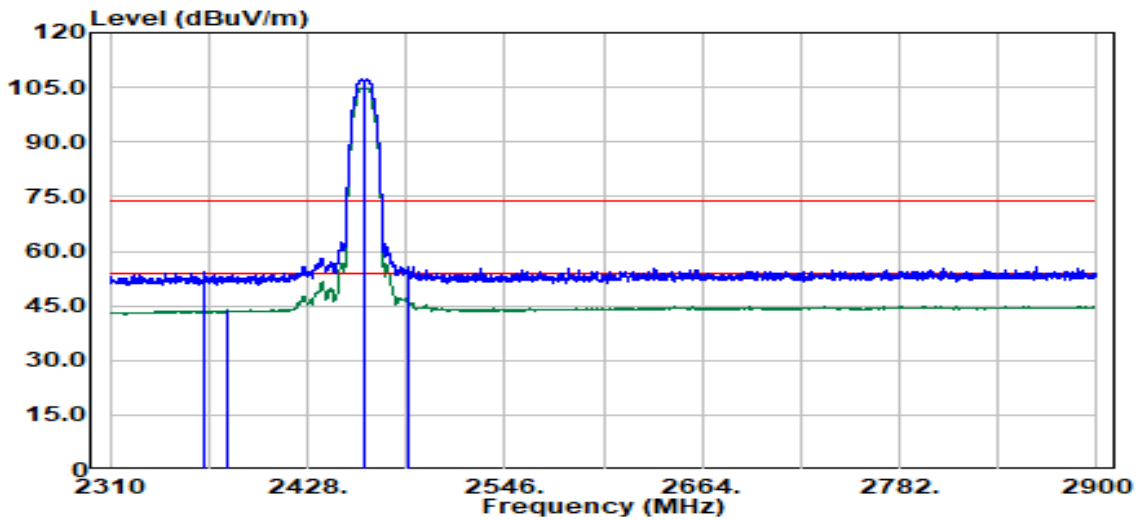
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2341.51	Peak	49.94	4.79	54.73	74.00	-19.27
2389.78	Average	39.42	4.80	44.23	54.00	-9.77
2462.00	Peak	107.99	4.66	112.66	--	--
2462.00	Average	105.43	4.66	110.09	--	--
2488.33	Peak	53.73	4.56	58.30	74.00	-15.70
2488.58	Average	48.62	4.56	53.18	54.00	-0.82

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11b  
 Frequency :2462 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :17

Test Date :2023-08-23  
 Temp./Humi. :24.6/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



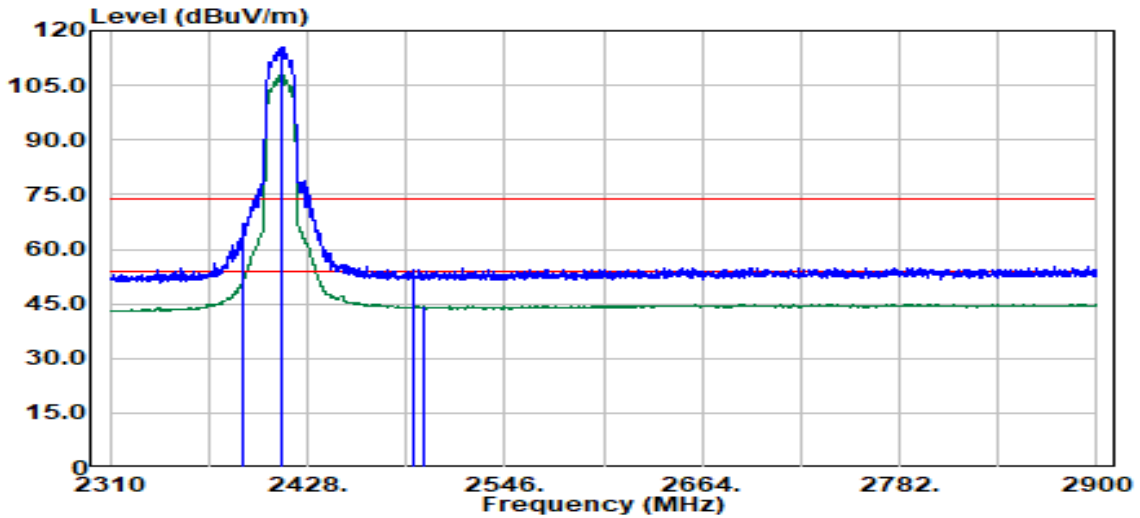
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2365.77	Peak	49.54	4.73	54.27	74.00	-19.73
2380.53	Average	38.98	4.80	43.78	54.00	-10.22
2462.00	Peak	102.66	4.66	107.32	--	--
2462.00	Average	100.17	4.66	104.83	--	--
2488.08	Peak	51.20	4.57	55.77	74.00	-18.23
2488.08	Average	43.16	4.57	47.73	54.00	-6.27

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-23
Operation Band	:802.11g	Temp./Humi.	:24.6/60
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:14		



Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2390.00	Peak	62.40	4.80	67.20	74.00	-6.80
2390.00	Average	48.34	4.80	53.14	54.00	-0.86
2412.00	Peak	111.11	4.54	115.65	--	--
2412.00	Average	103.40	4.54	107.94	--	--
2491.58	Peak	49.73	4.56	54.30	74.00	-19.70
2498.08	Average	39.60	4.63	44.23	54.00	-9.77

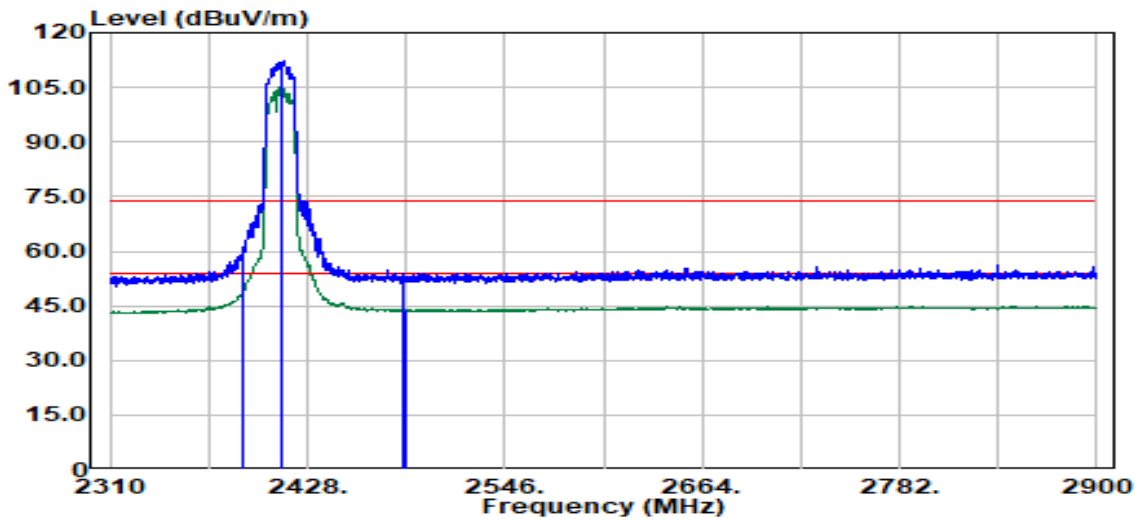


Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11g  
 Frequency :2412 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :14

Test Date :2023-08-23  
 Temp./Humi. :24.6/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



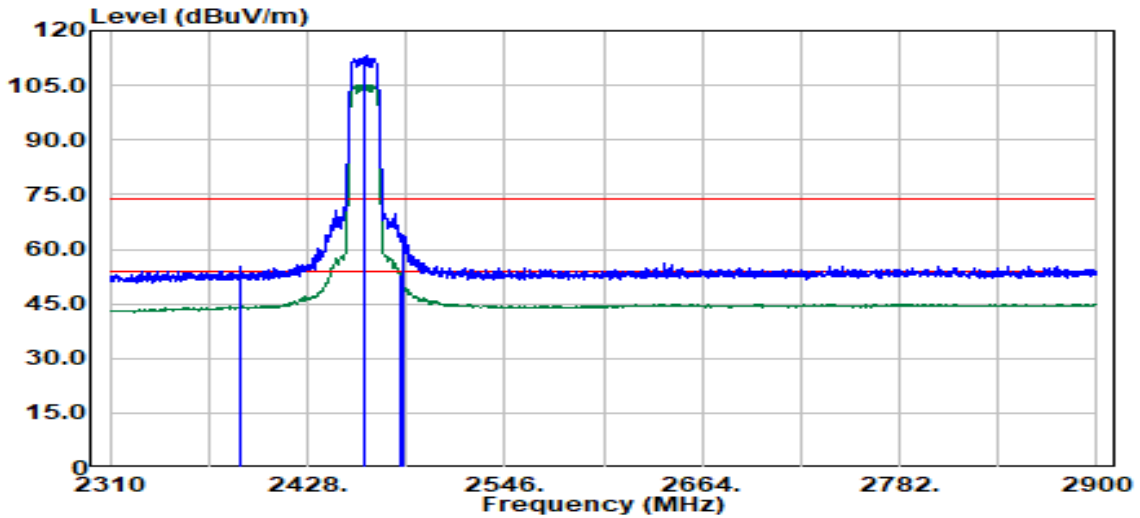
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2389.28	Peak	56.50	4.80	61.31	74.00	-12.69
2389.53	Average	44.23	4.80	49.03	54.00	-4.97
2412.00	Peak	107.60	4.54	112.13	--	--
2412.00	Average	100.57	4.54	105.10	--	--
2485.82	Peak	49.40	4.59	53.99	74.00	-20.01
2486.83	Average	39.25	4.58	43.83	54.00	-10.17

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-23
Operation Band	:802.11g	Temp./Humi.	:24.6/60
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:17		



Trace: 1

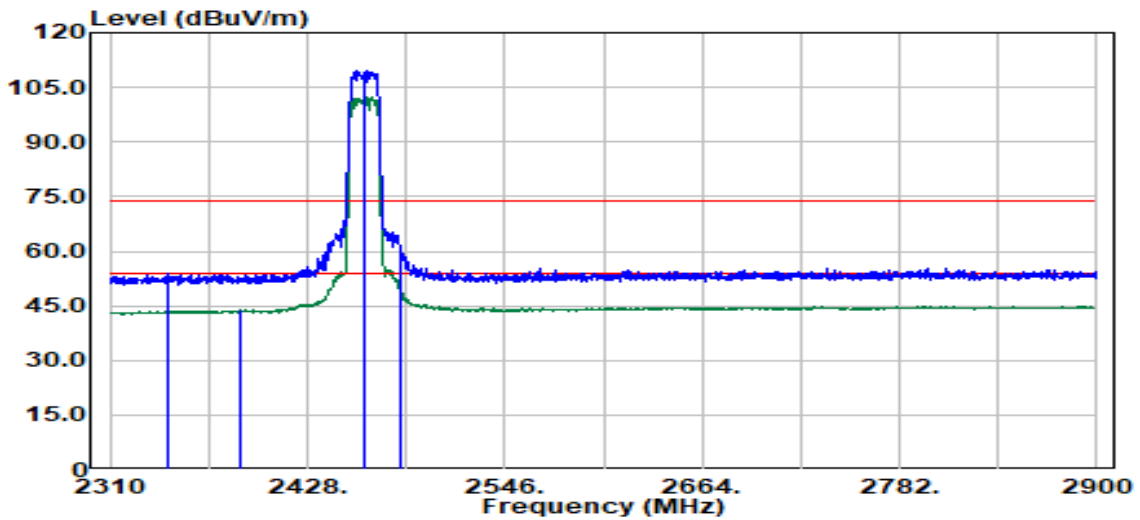
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2387.28	Average	39.45	4.80	44.26	54.00	-9.74
2388.53	Peak	50.61	4.80	55.42	74.00	-18.58
2462.00	Peak	108.35	4.66	113.01	--	--
2462.00	Average	100.56	4.66	105.22	--	--
2483.57	Average	48.53	4.61	53.14	54.00	-0.86
2485.82	Peak	59.07	4.59	63.66	74.00	-10.34

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11g  
 Frequency :2462 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :17

Test Date :2023-08-23  
 Temp./Humi. :24.6/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



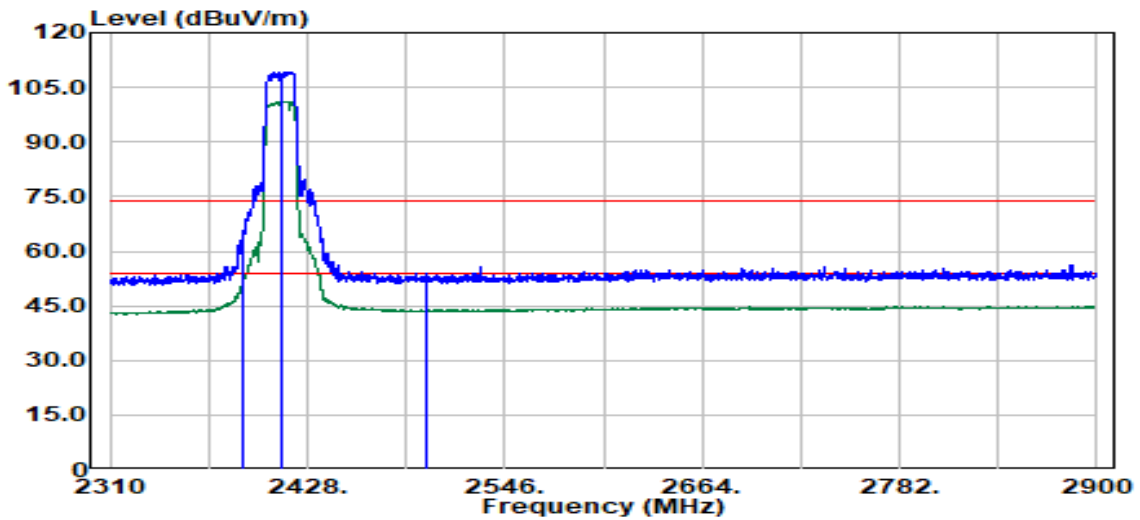
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2344.52	Peak	49.20	4.82	54.02	74.00	-19.98
2387.53	Average	38.97	4.80	43.78	54.00	-10.22
2462.00	Peak	104.89	4.66	109.55	--	--
2462.00	Average	97.48	4.66	102.14	--	--
2483.57	Peak	56.26	4.61	60.87	74.00	-13.13
2483.57	Average	45.22	4.61	49.83	54.00	-4.17

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11n20	Temp./Humi.	:25.7/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:14		



Trace: 1

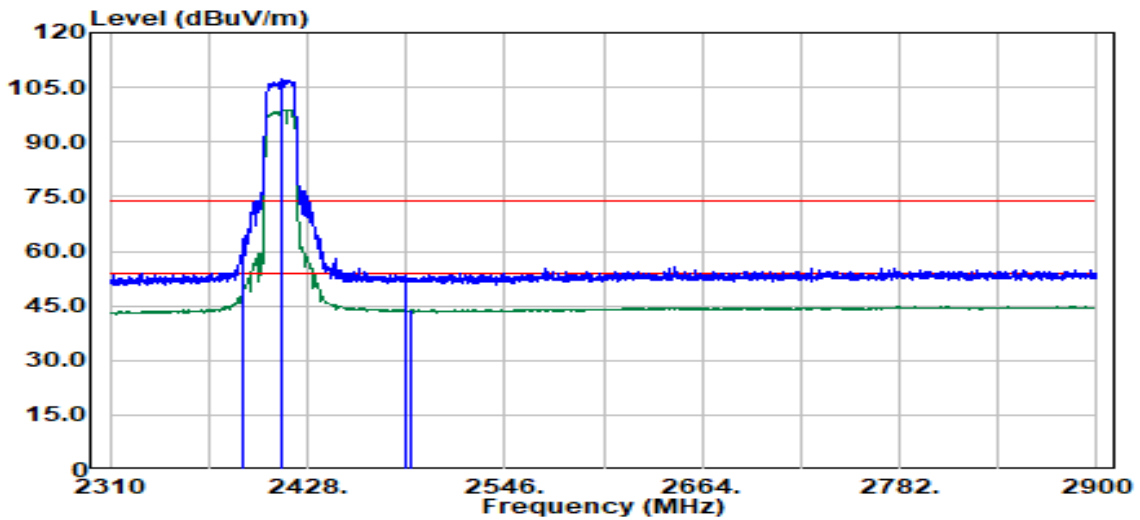
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2390.00	Peak	61.07	4.80	65.87	74.00	-8.13
2390.00	Average	48.35	4.80	53.15	54.00	-0.85
2412.00	Peak	104.80	4.54	109.34	--	--
2412.00	Average	96.61	4.54	101.14	--	--
2499.58	Peak	49.19	4.65	53.84	74.00	-20.16
2499.58	Average	39.40	4.65	44.04	54.00	-9.96

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11n20  
 Frequency :2412 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :14

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



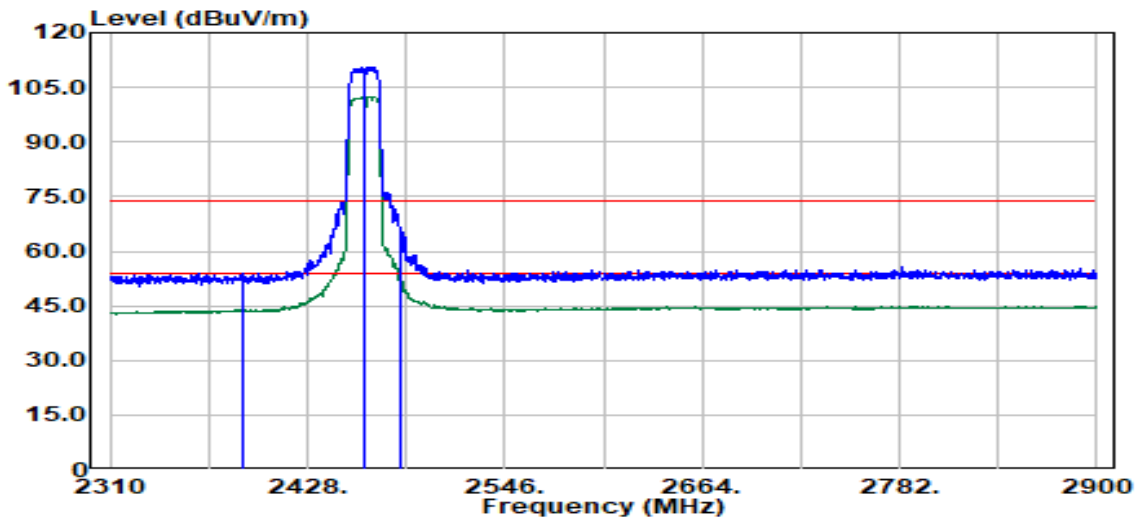
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2390.00	Peak	58.37	4.80	63.17	74.00	-10.83
2390.00	Average	44.31	4.80	49.11	54.00	-4.89
2412.00	Peak	102.61	4.54	107.15	--	--
2412.00	Average	94.41	4.54	98.95	--	--
2486.58	Peak	48.69	4.58	53.27	74.00	-20.73
2490.58	Average	39.31	4.55	43.87	54.00	-10.13

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11n20	Temp./Humi.	:25.7/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:14		



Trace: 1

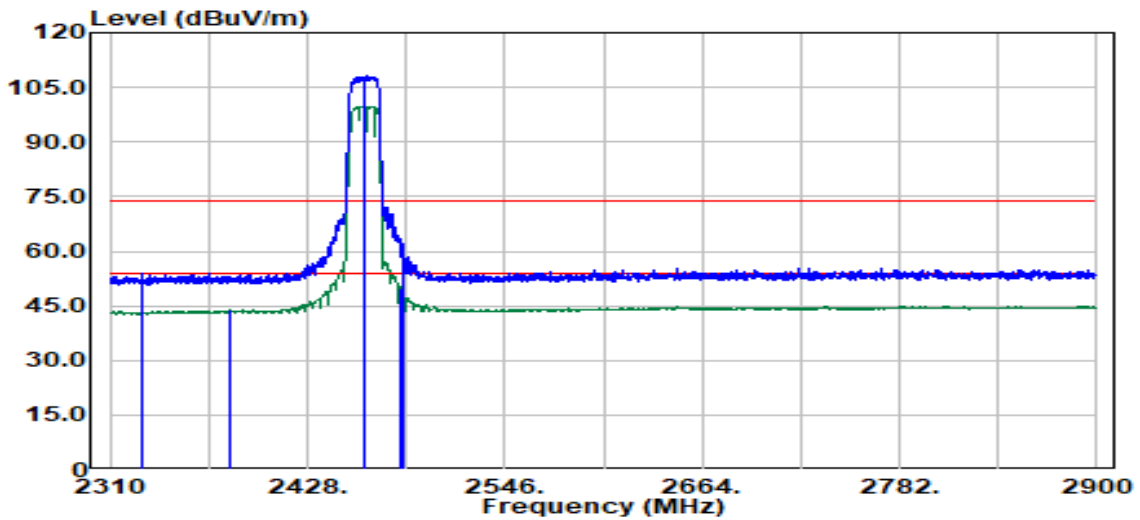
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2389.78	Average	39.06	4.80	43.86	54.00	-10.14
2390.00	Peak	49.08	4.80	53.88	74.00	-20.12
2462.00	Peak	105.95	4.66	110.61	--	--
2462.00	Average	97.76	4.66	102.42	--	--
2483.57	Peak	60.85	4.61	65.46	74.00	-8.54
2483.57	Average	48.42	4.61	53.03	54.00	-0.97

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11n20  
 Frequency :2462 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :14

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



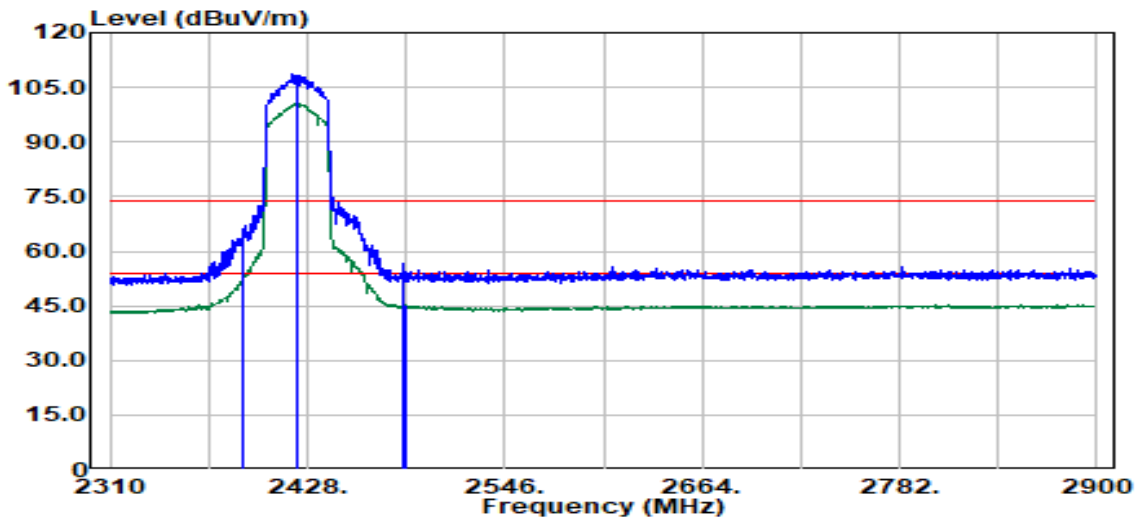
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2329.01	Peak	49.22	4.66	53.88	74.00	-20.12
2381.53	Average	38.94	4.80	43.74	54.00	-10.26
2462.00	Peak	103.38	4.66	108.04	--	--
2462.00	Average	95.03	4.66	99.69	--	--
2483.82	Average	45.09	4.61	49.70	54.00	-4.30
2484.82	Peak	57.65	4.60	62.25	74.00	-11.75

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11n40	Temp./Humi.	:25.7/57
Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:13.75		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2390.00	Peak	60.53	4.80	65.34	74.00	-8.66
2390.00	Average	48.47	4.80	53.28	54.00	-0.72
2422.00	Peak	103.94	4.62	108.56	--	--
2422.00	Average	95.87	4.62	100.49	--	--
2485.07	Peak	51.89	4.60	56.49	74.00	-17.51
2486.58	Average	40.79	4.58	45.38	54.00	-8.62

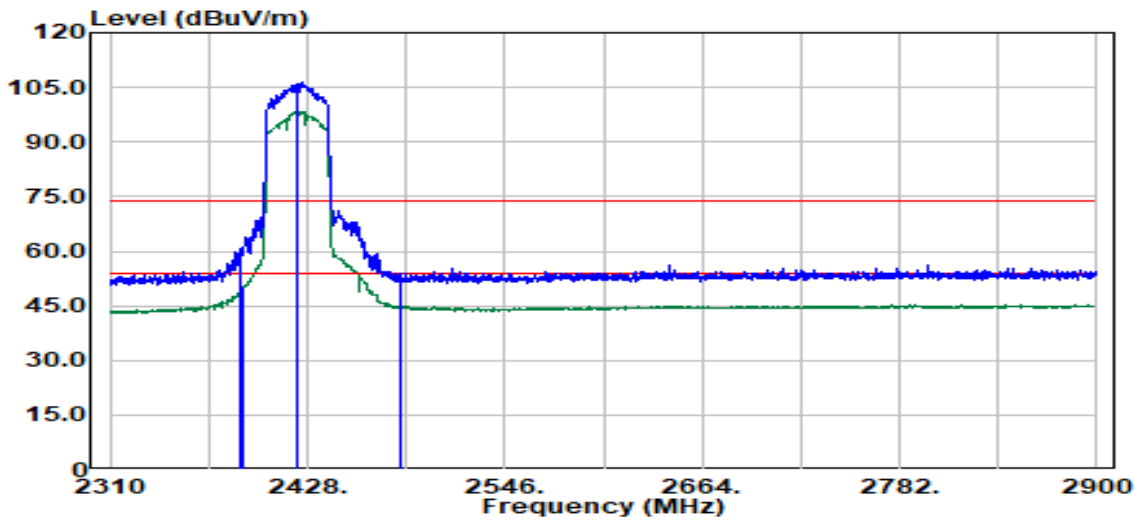


Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11n40  
 Frequency :2422 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :13.75

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



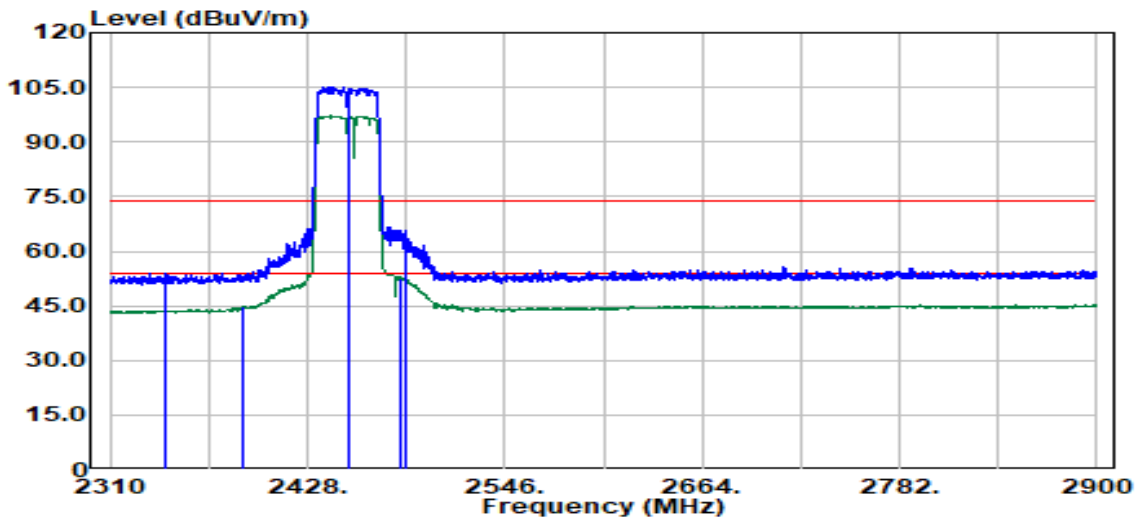
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2388.28	Peak	56.09	4.80	60.90	74.00	-13.11
2389.78	Average	45.37	4.80	50.17	54.00	-3.83
2422.00	Peak	101.90	4.62	106.53	--	--
2422.00	Average	93.78	4.62	98.40	--	--
2483.57	Peak	49.46	4.61	54.07	74.00	-19.93
2484.32	Average	40.44	4.60	45.04	54.00	-8.96

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11n40	Temp./Humi.	:25.7/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:12		



Trace: 1

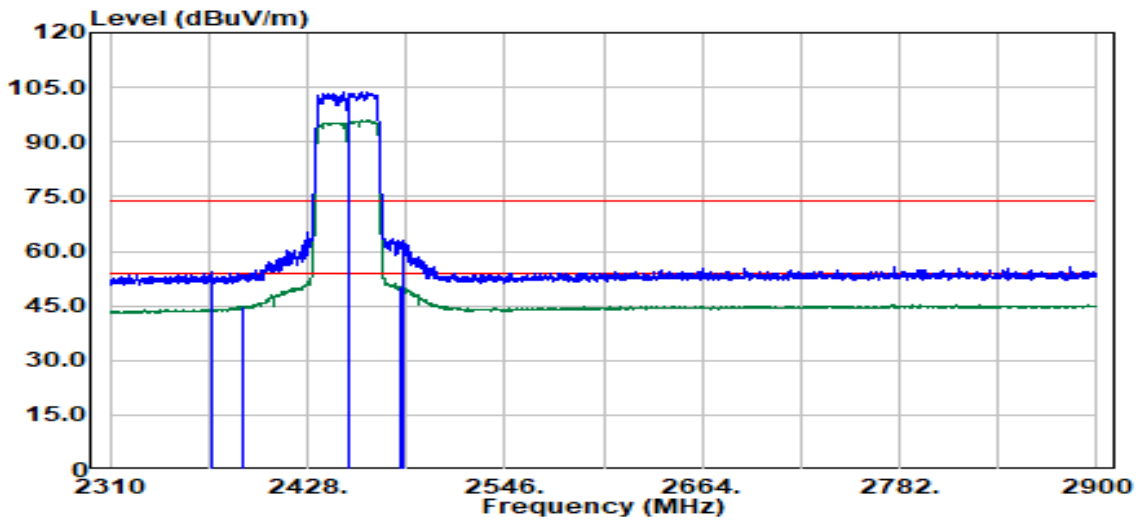
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2343.01	Peak	49.20	4.80	54.01	74.00	-19.99
2389.53	Average	39.95	4.80	44.75	54.00	-9.25
2452.00	Peak	100.55	4.56	105.12	--	--
2452.00	Average	92.64	4.56	97.20	--	--
2483.57	Average	48.11	4.61	52.72	54.00	-1.28
2486.33	Peak	61.14	4.58	65.72	74.00	-8.28

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11n40  
 Frequency :2452 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :12

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



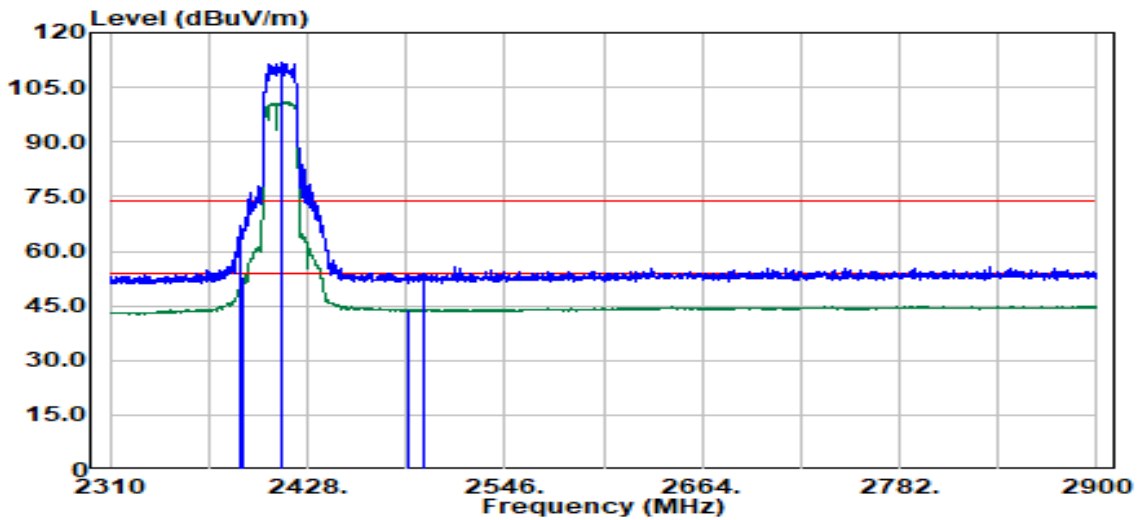
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
2370.28	Peak	49.44	4.69	54.13	74.00	-19.87
2389.78	Average	40.08	4.80	44.89	54.00	-9.11
2452.00	Peak	99.04	4.56	103.60	--	--
2452.00	Average	91.26	4.56	95.82	--	--
2483.82	Average	45.61	4.61	50.22	54.00	-3.78
2485.57	Peak	58.28	4.59	62.87	74.00	-11.13

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax20 Full	Temp./Humi.	:25.7/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:13.5		



Trace: 1

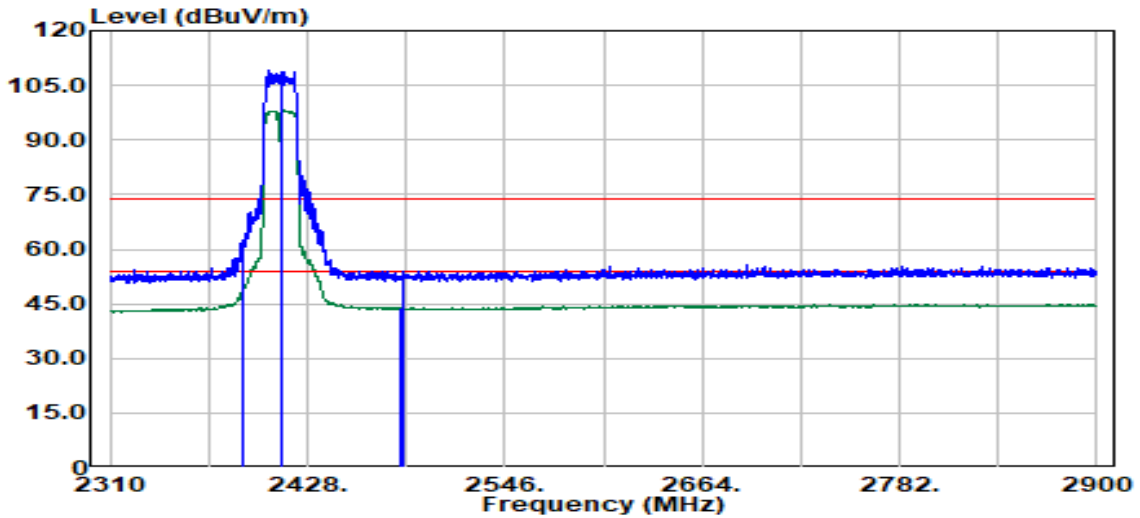
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2388.03	Peak	62.19	4.80	67.00	74.00	-7.00
2390.00	Average	48.18	4.80	52.98	54.00	-1.02
2412.00	Peak	107.93	4.54	112.47	--	--
2412.00	Average	97.34	4.54	101.88	--	--
2487.83	Average	39.52	4.57	44.09	54.00	-9.91
2497.33	Peak	49.27	4.62	53.90	74.00	-20.10

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax20 Full  
 Frequency :2412 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :13.5

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



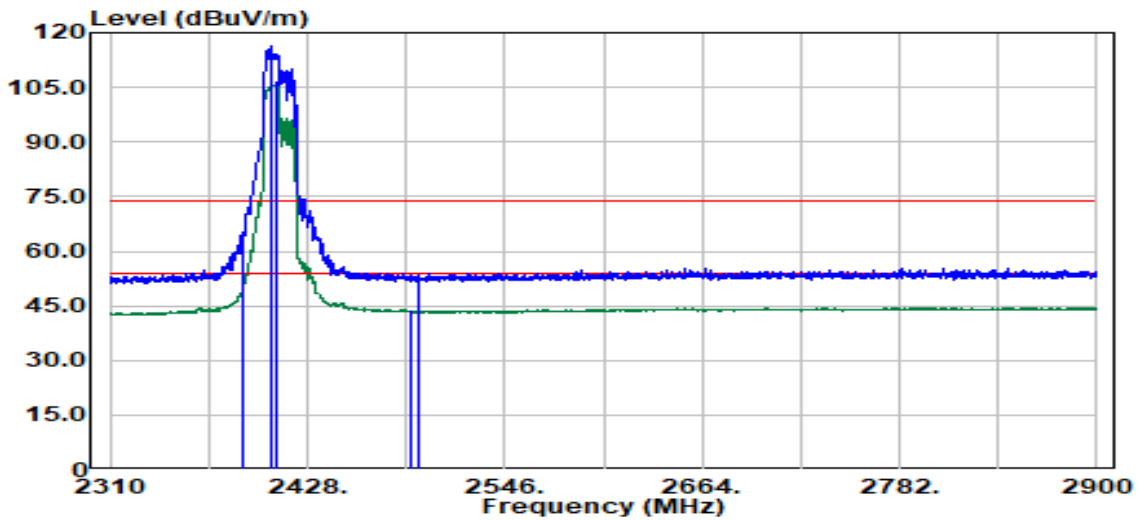
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
2390.00	Peak	57.85	4.80	62.65	74.00	-11.35
2390.00	Average	43.91	4.80	48.71	54.00	-5.29
2412.00	Peak	104.49	4.54	109.03	--	--
2412.00	Average	93.54	4.54	98.07	--	--
2484.07	Average	39.41	4.61	44.02	54.00	-9.98
2485.57	Peak	49.28	4.59	53.87	74.00	-20.13

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax20 RU160/53	Temp./Humi.	:25.7/57
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:17.25		



Trace: 1

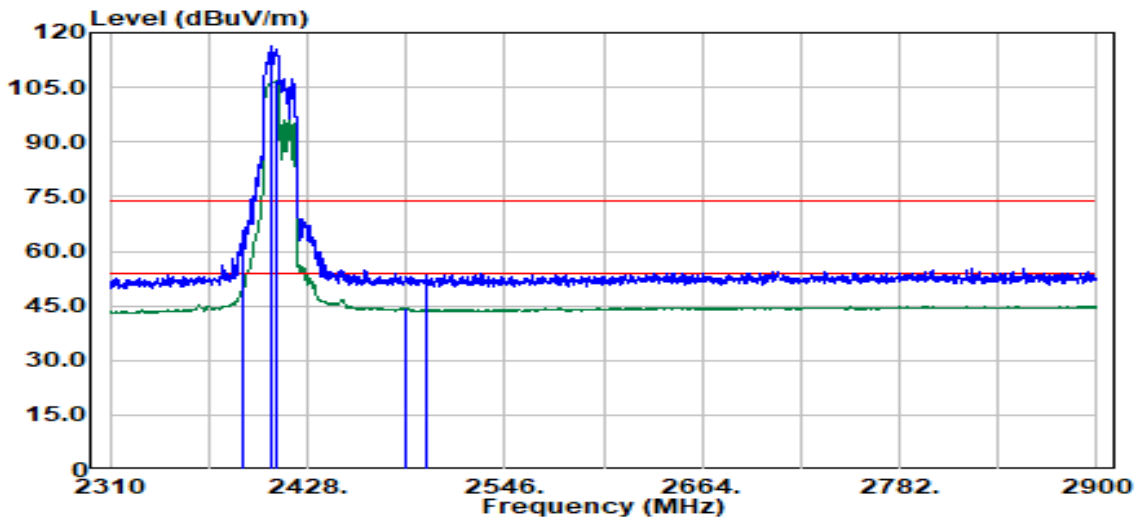
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2389.53	Peak	60.11	4.80	64.91	74.00	-9.09
2390.00	Average	46.68	4.80	51.48	54.00	-2.52
2406.54	Peak	112.20	4.51	116.72	--	--
2409.54	Average	102.47	4.52	106.99	--	--
2490.33	Average	39.56	4.55	44.11	54.00	-9.89
2494.58	Peak	49.50	4.59	54.09	74.00	-19.91

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax20 RU160/53  
 Frequency :2412 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :17.25

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



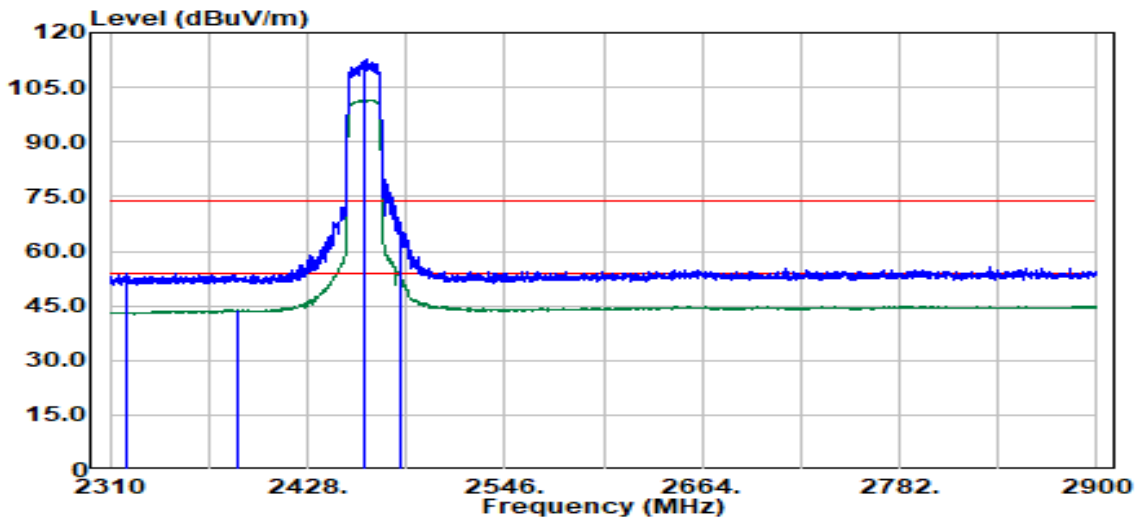
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2389.28	Average	45.17	4.80	49.97	54.00	-4.03
2390.00	Peak	61.20	4.80	66.01	74.00	-7.99
2406.29	Peak	111.94	4.51	116.46	--	--
2409.04	Average	102.16	4.52	106.68	--	--
2487.33	Average	39.71	4.57	44.28	54.00	-9.72
2499.58	Peak	49.12	4.65	53.77	74.00	-20.23

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax20 Full	Temp./Humi.	:25.7/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:13.5		



Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2320.50	Peak	49.37	4.66	54.03	74.00	-19.97
2386.03	Average	39.05	4.80	43.85	54.00	-10.15
2462.00	Peak	108.19	4.66	112.85	--	--
2462.00	Average	96.81	4.66	101.47	--	--
2484.07	Peak	62.64	4.61	67.24	74.00	-6.76
2484.32	Average	48.39	4.60	52.99	54.00	-1.01

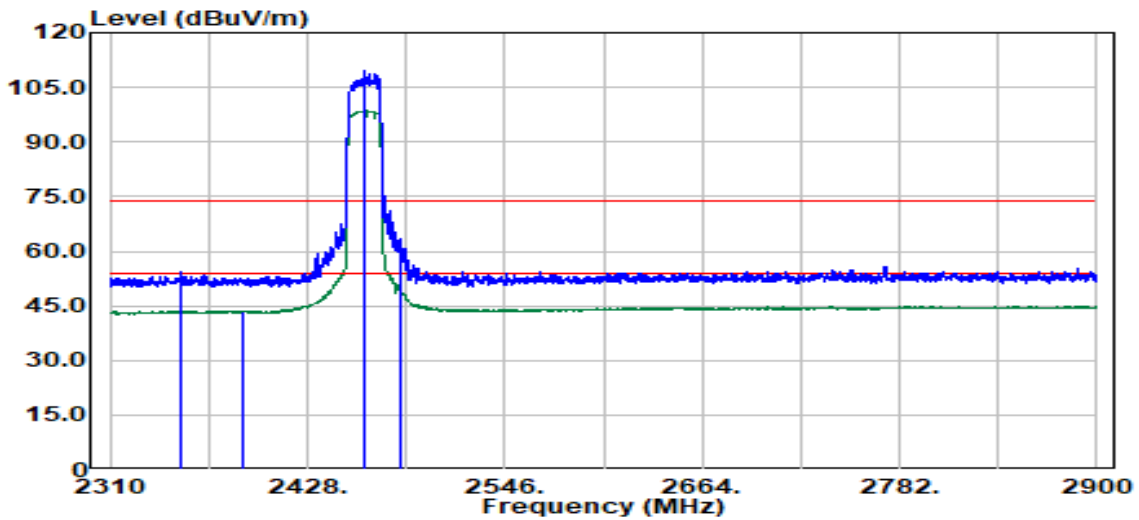


Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax20 Full  
 Frequency :2462 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :13.5

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



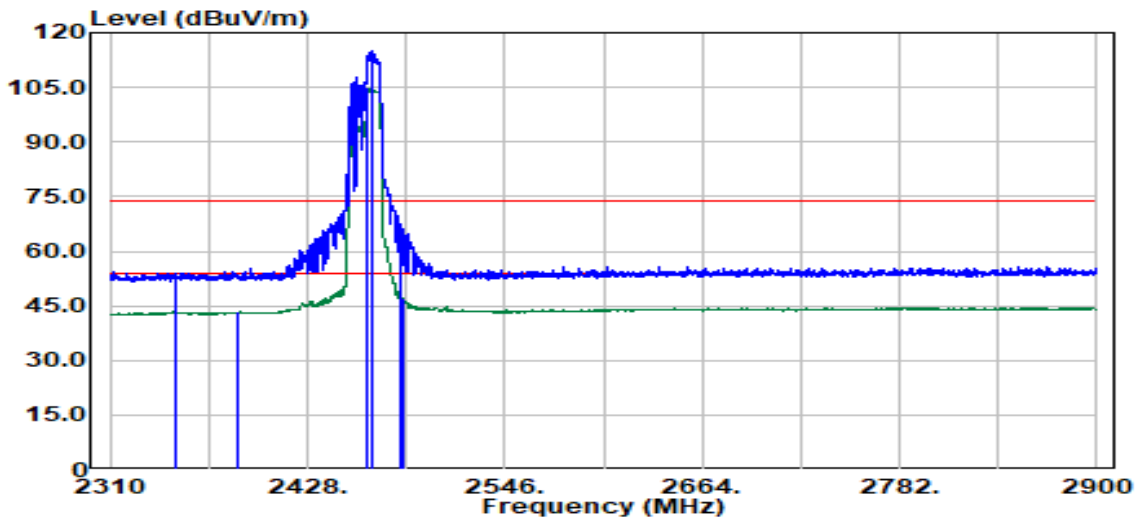
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2353.02	Peak	50.08	4.85	54.93	74.00	-19.07
2389.78	Average	38.83	4.80	43.64	54.00	-10.36
2462.00	Peak	105.16	4.66	109.82	--	--
2462.00	Average	93.90	4.66	98.56	--	--
2483.57	Peak	57.11	4.61	61.72	74.00	-12.28
2483.82	Average	44.31	4.61	48.92	54.00	-5.08

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax20 RU106/54	Temp./Humi.	:25.7/57
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:15		



Trace: 1

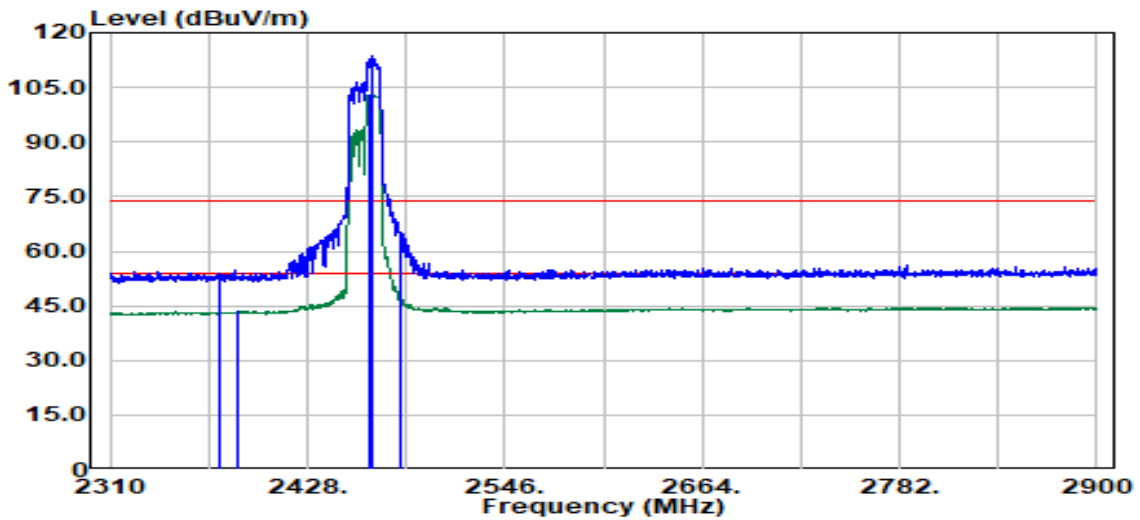
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2349.02	Peak	49.70	4.87	54.57	74.00	-19.43
2385.78	Average	38.82	4.80	43.62	54.00	-10.38
2464.32	Average	100.30	4.69	104.98	--	--
2467.07	Peak	110.54	4.71	115.25	--	--
2483.57	Peak	61.37	4.61	65.98	74.00	-8.02
2484.57	Average	42.55	4.60	47.15	54.00	-6.85

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax20 RU106/54  
 Frequency :2462 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :15

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



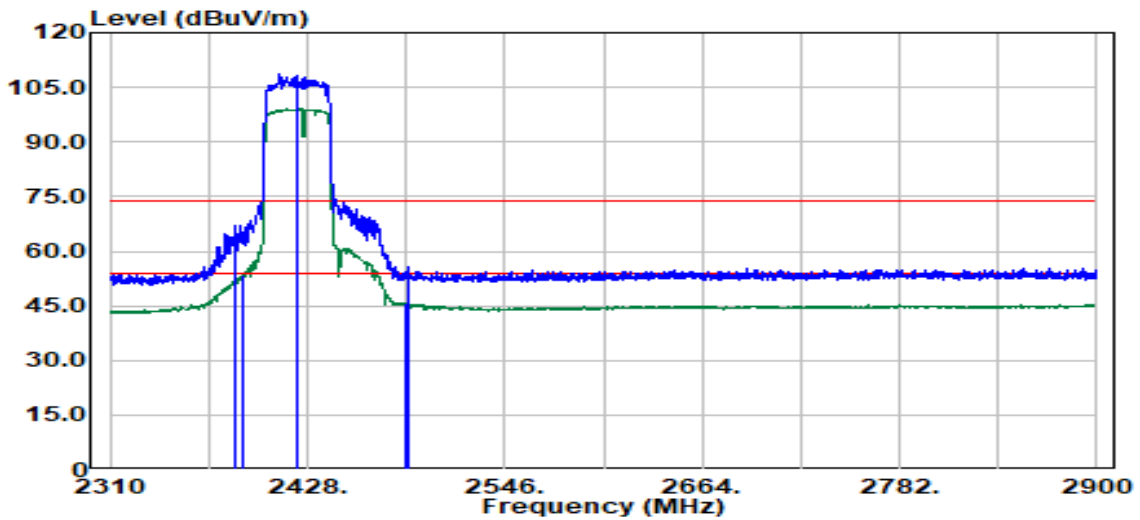
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2376.03	Peak	49.52	4.76	54.28	74.00	-19.72
2385.78	Average	38.92	4.80	43.72	54.00	-10.28
2465.82	Average	98.50	4.70	103.20	--	--
2467.32	Peak	109.00	4.72	113.72	--	--
2483.82	Average	42.39	4.61	47.00	54.00	-7.00
2484.32	Peak	59.60	4.60	64.21	74.00	-9.79

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax40 Full	Temp./Humi.	:25.7/57
Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:13.5		



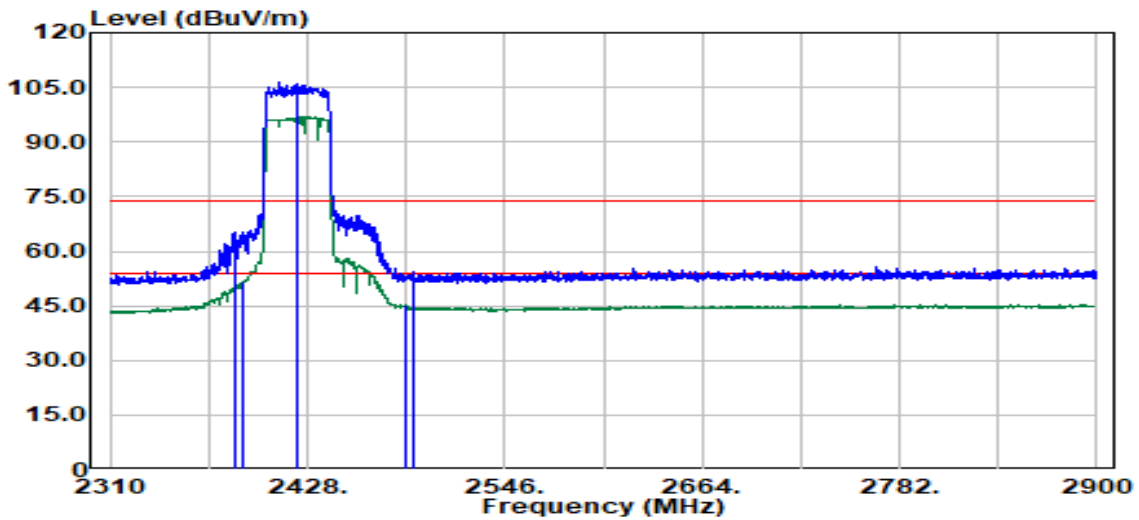
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2384.28	Peak	62.44	4.80	67.24	74.00	-6.76
2389.53	Average	48.42	4.80	53.23	54.00	-0.77
2422.00	Peak	104.21	4.62	108.83	--	--
2422.00	Average	94.45	4.62	99.07	--	--
2486.08	Average	41.28	4.59	45.87	54.00	-8.13
2487.83	Peak	51.26	4.57	55.83	74.00	-18.17

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax40 Full  
 Frequency :2422 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :13.5

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



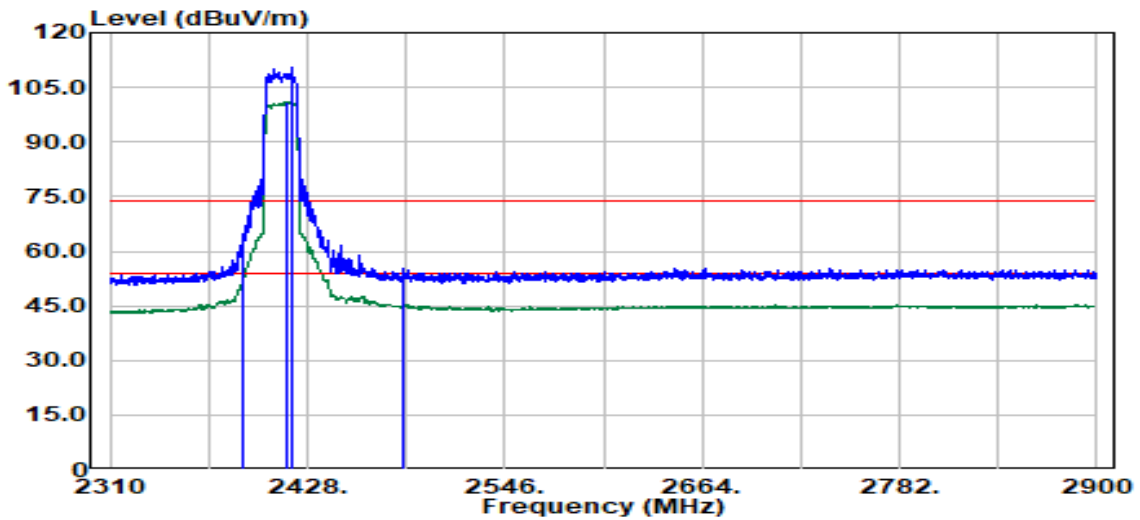
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2384.53	Peak	60.38	4.80	65.18	74.00	-8.82
2389.78	Average	46.74	4.80	51.54	54.00	-2.46
2422.00	Peak	101.85	4.62	106.47	--	--
2422.00	Average	92.20	4.62	96.82	--	--
2487.33	Average	40.78	4.57	45.35	54.00	-8.65
2491.83	Peak	49.56	4.57	54.13	74.00	-19.87

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax40 RU242/61	Temp./Humi.	:25.7/57
Frequency	:2422 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:13.25		



Trace: 1

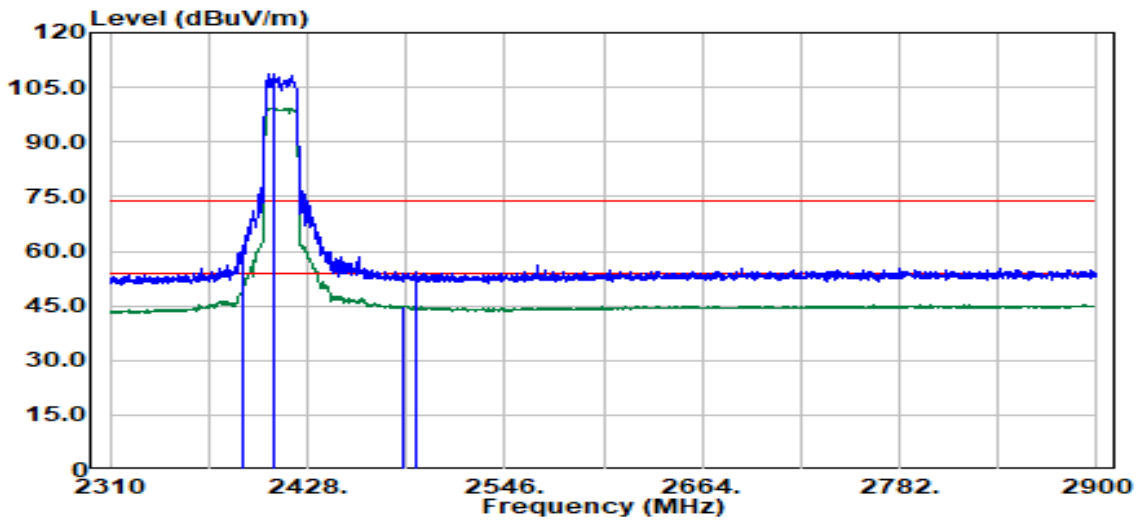
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2389.53	Average	48.28	4.80	53.08	54.00	-0.92
2390.00	Peak	59.82	4.80	64.62	74.00	-9.38
2415.30	Average	96.30	4.57	100.87	--	--
2418.55	Peak	105.75	4.61	110.35	--	--
2485.57	Peak	50.84	4.59	55.43	74.00	-18.57
2485.57	Average	40.97	4.59	45.56	54.00	-8.44

Report No.: TMWK2307002435KR

Rev.: 00

Report Number :TMWK2307002435KR  
 Operation Band :802.11ax40 RU242/61  
 Frequency :2422 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E2  
 Setting :13.25

Test Date :2023-08-24  
 Temp./Humi. :25.7/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Czerny Lin  
 Test Chamber : 966D



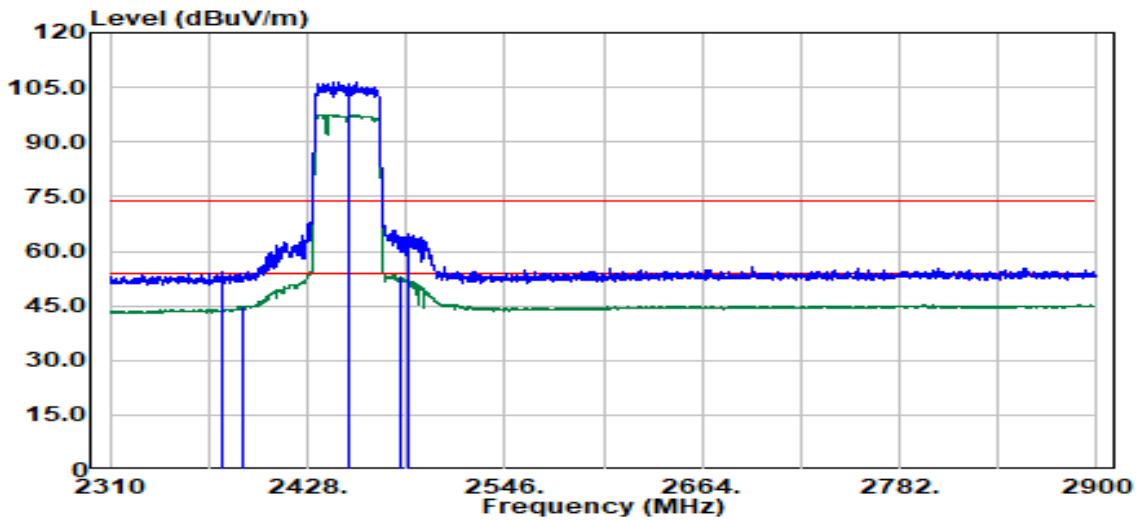
Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
2389.78	Peak	56.91	4.80	61.72	74.00	-12.28
2390.00	Average	45.75	4.80	50.55	54.00	-3.45
2408.04	Peak	104.25	4.51	108.76	--	--
2408.29	Average	94.72	4.51	99.23	--	--
2484.57	Average	40.42	4.60	45.02	54.00	-8.98
2492.33	Peak	49.68	4.57	54.25	74.00	-19.75

Report No.: TMWK2307002435KR

Rev.: 00

Report Number	:TMWK2307002435KR	Test Date	:2023-08-24
Operation Band	:802.11ax40 Full	Temp./Humi.	:25.7/57
Frequency	:2452 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:E2	Test Chamber	: 966D
Setting	:12.25		



Trace: 1

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2377.03	Peak	49.42	4.77	54.18	74.00	-19.82
2389.03	Average	39.94	4.80	44.74	54.00	-9.26
2452.00	Peak	101.79	4.56	106.35	--	--
2452.00	Average	92.80	4.56	97.36	--	--
2483.57	Average	48.43	4.61	53.04	54.00	-0.96
2487.83	Peak	60.30	4.57	64.87	74.00	-9.13