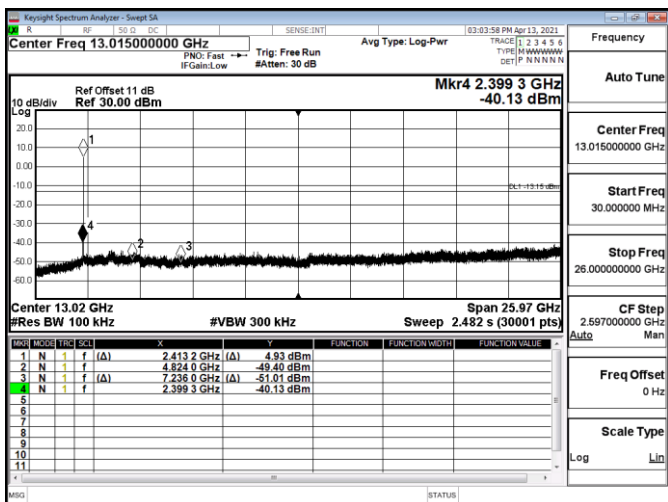
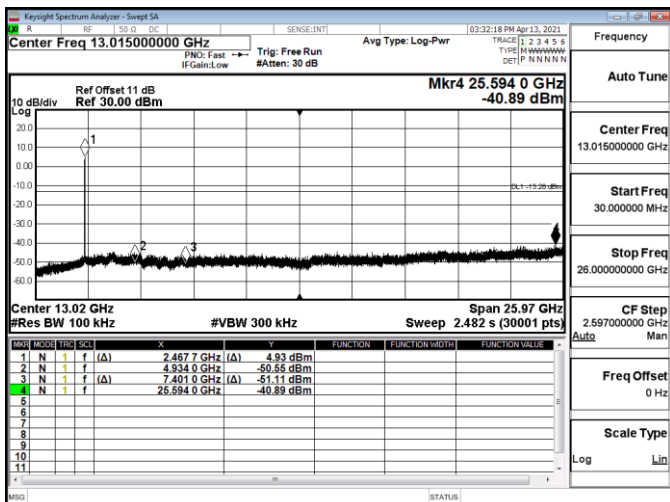


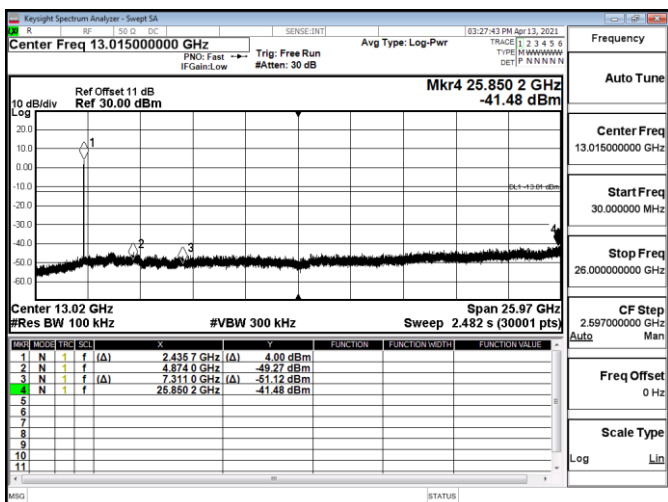
Spurious Emission_802.11b_20MHz_Chain0_2412MHz



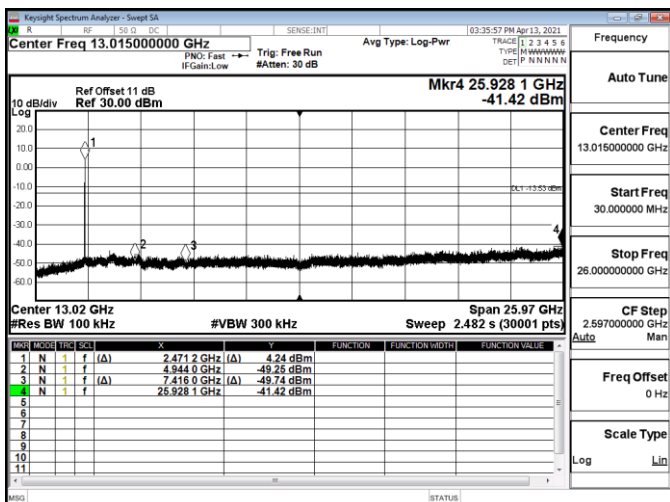
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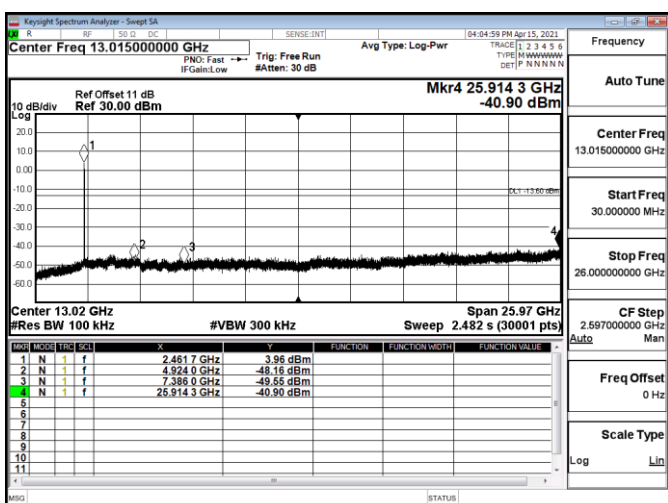
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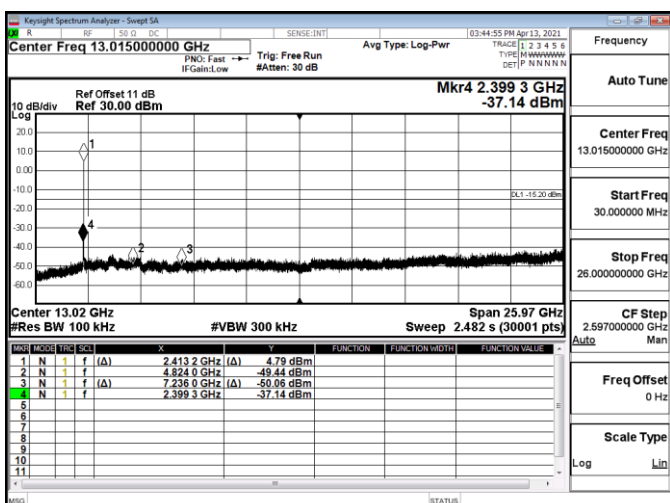
Spurious Emission_802.11b_20MHz_Chain0_2472MHz



Spurious Emission_802.11b_20MHz_Chain0_2462MHz



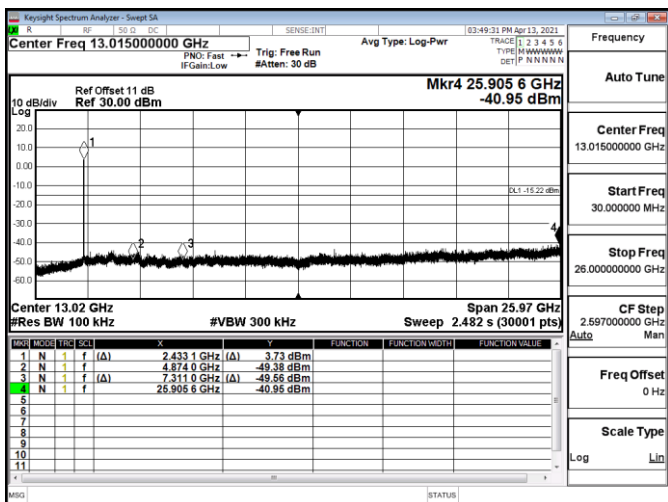
Spurious Emission_802.11g_20MHz_Chain0_2412MHz



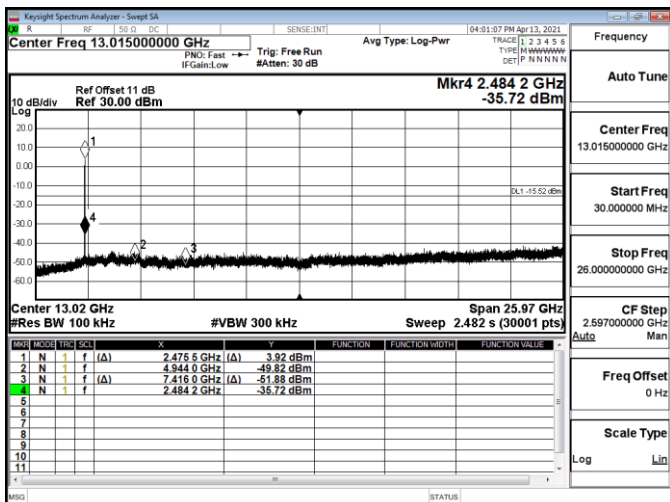
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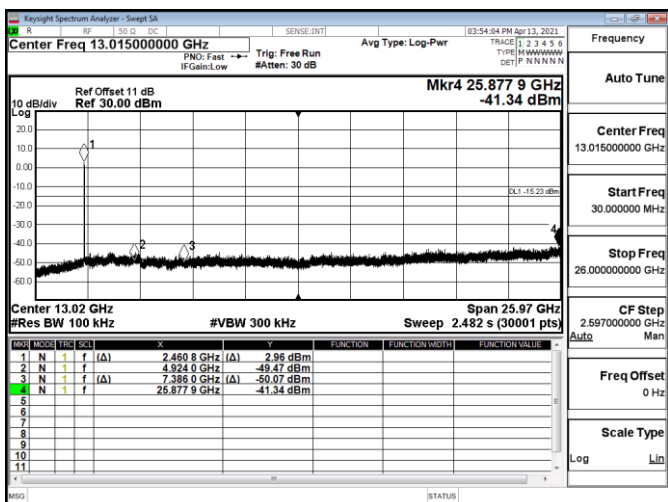
Spurious Emission_802.11g_20MHz_Chain0_2437MHz



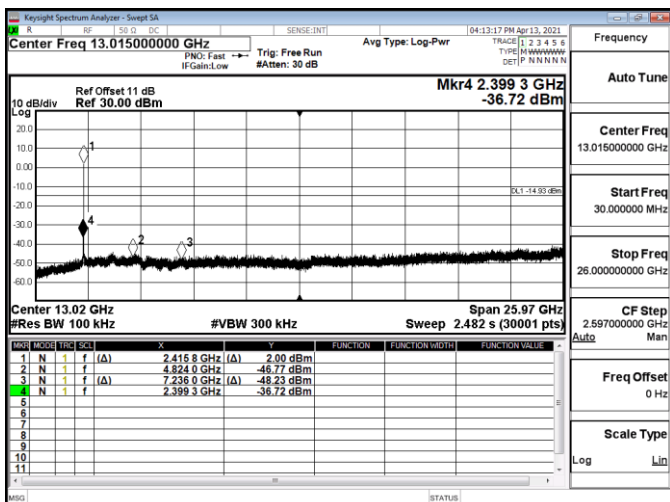
Spurious Emission_802.11g_20MHz_Chain0_2472MHz



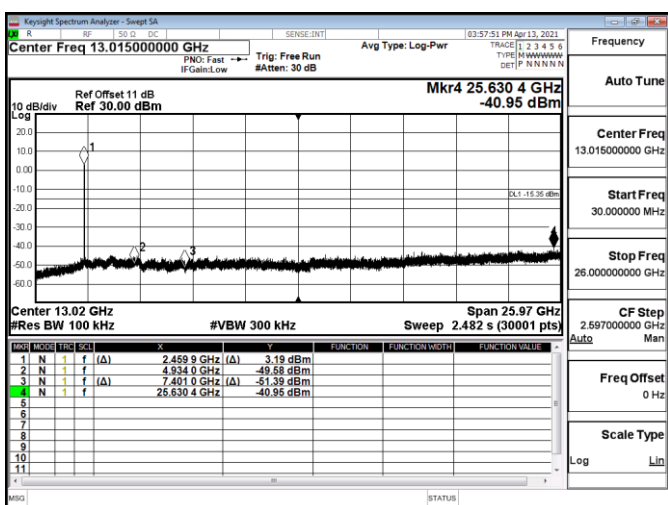
Spurious Emission_802.11g_20MHz_Chain0_2462MHz



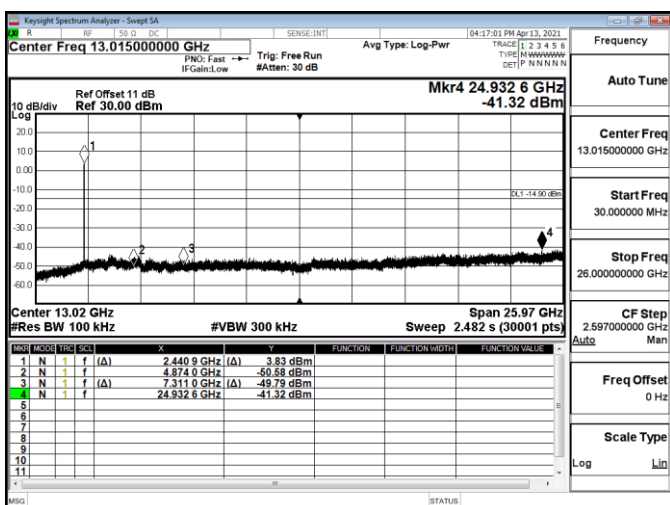
Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11g_20MHz_Chain0_2467MHz



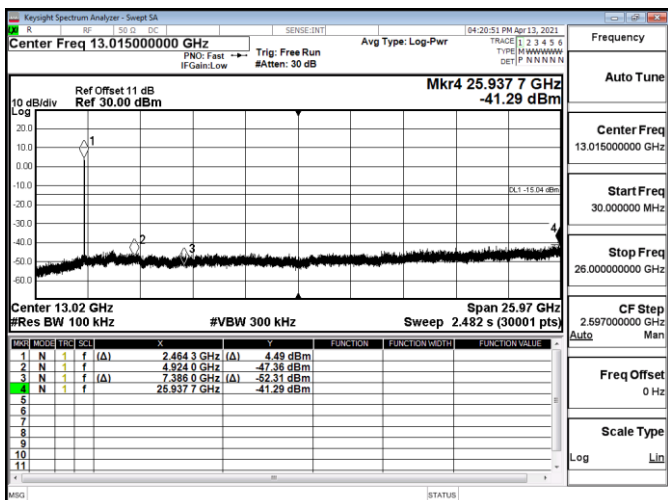
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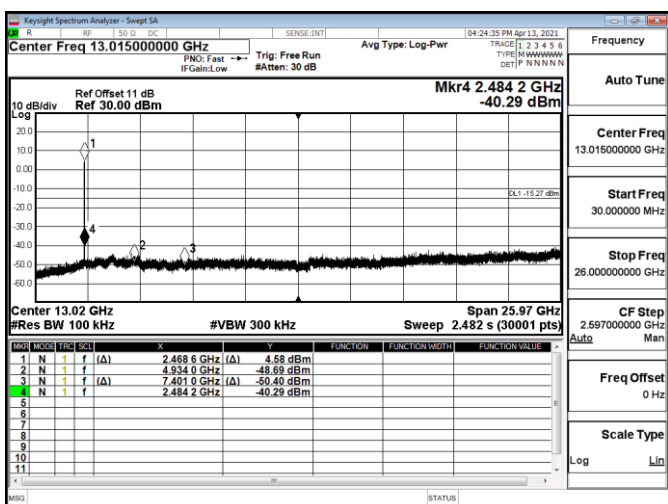
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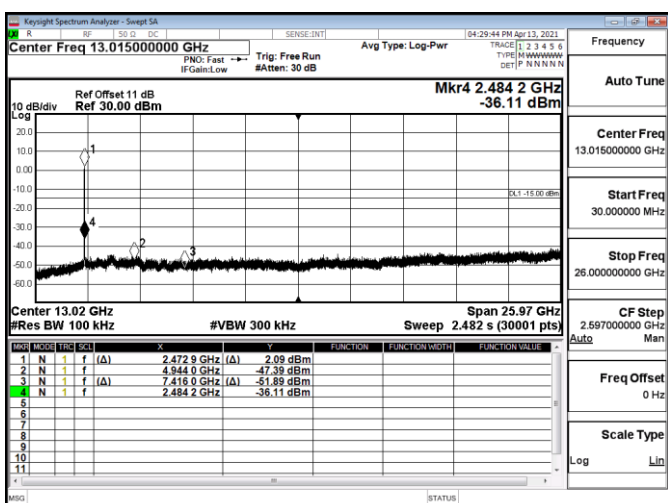
Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11n_20MHz_Chain0_2467MHz



Spurious Emission_802.11n_20MHz_Chain0_2472MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

Radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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11.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/11/2020	11/10/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Woken	WATT-218FS-10	RF03	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

NOTE: N.C.R refers to Not Calibrated Required.

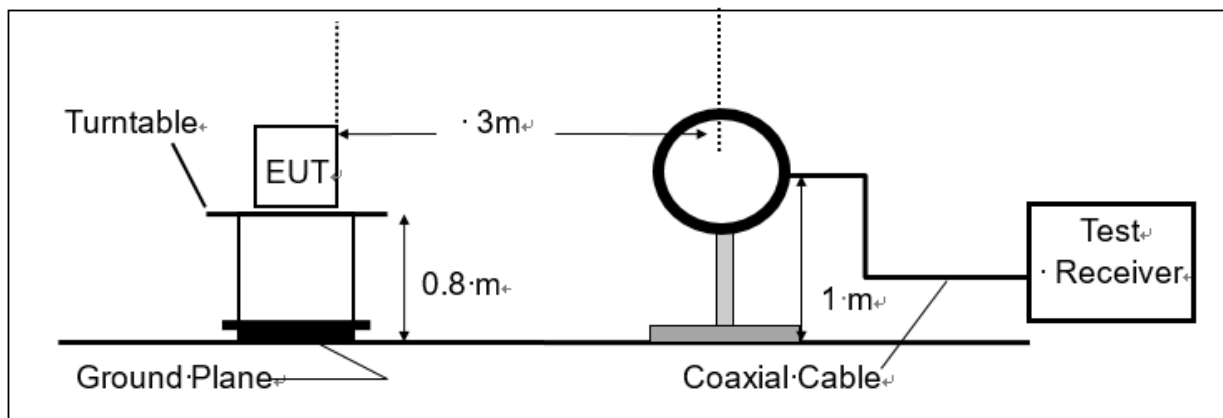
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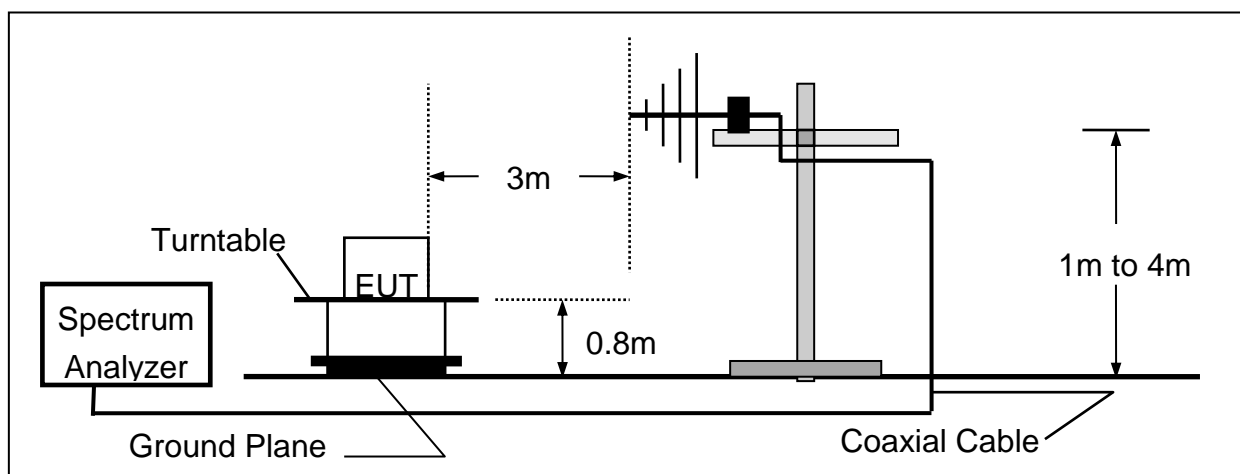
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11.3 Test SET-UP

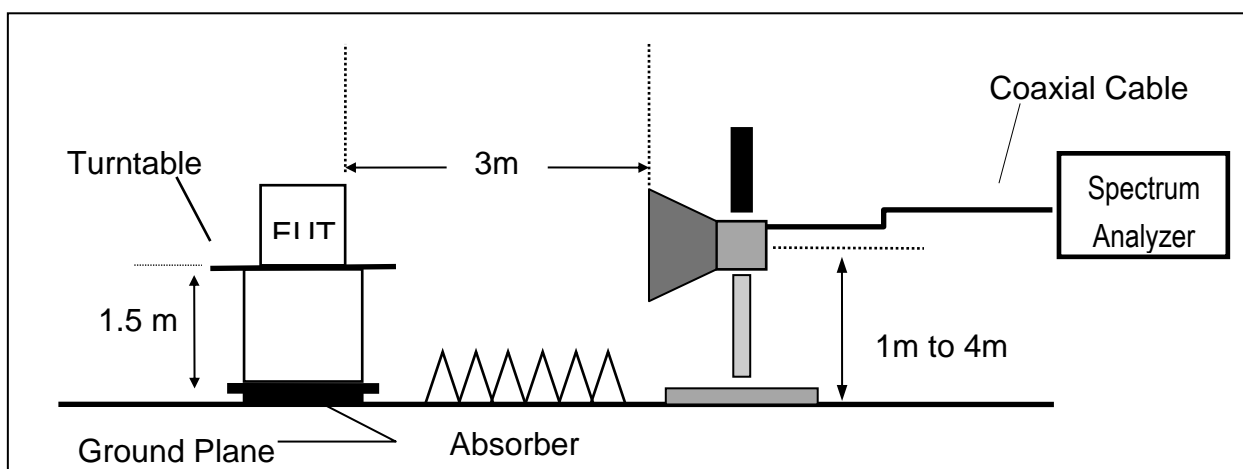
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu V/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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11.7.1 Radiated Band Edge Measurement Result

Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-23

Test Frequency :2412 MHz

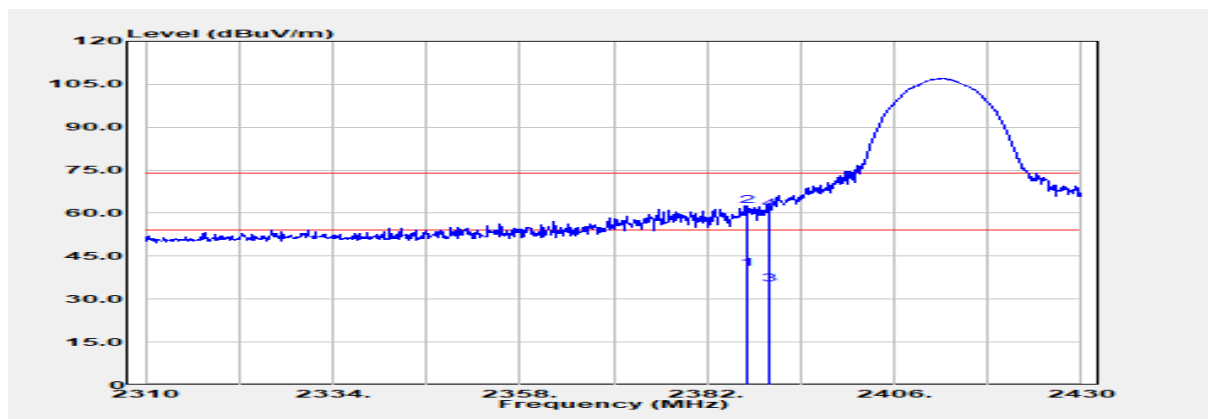
Temp./Humi. :21.5/67

Test Mode :BE CH Low

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2387.160	Average	48.57	-7.90	40.67	54.00	-13.33
2387.160	Peak	70.46	-7.90	62.56	74.00	-11.44
2390.000	Average	43.23	-7.99	35.24	54.00	-18.76
2390.000	Peak	69.19	-7.99	61.21	74.00	-12.79

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :BE CH Low

EUT Pol :E2 Plane

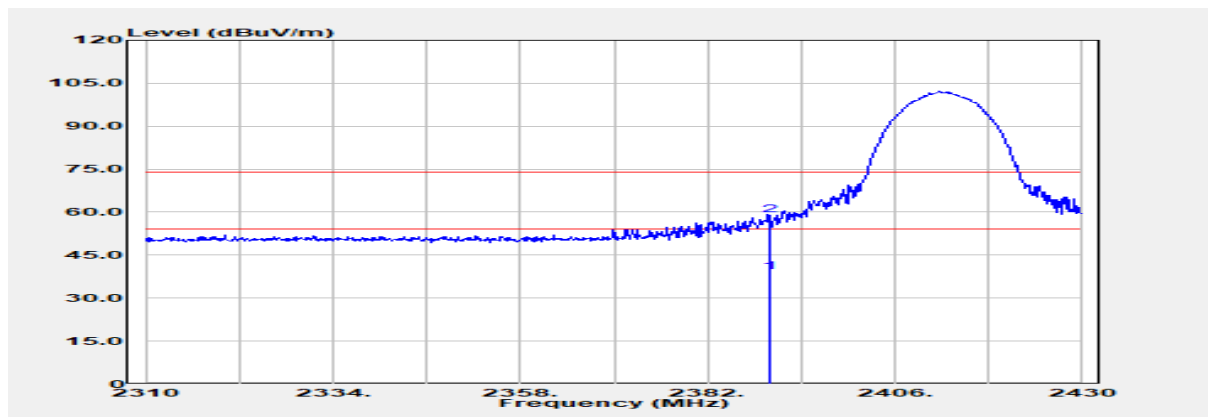
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	47.09	-7.99	39.10	74.00	-34.90
2390.000	Peak	67.01	-7.99	59.02	74.00	-14.98

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH High

EUT Pol :E2 Plane

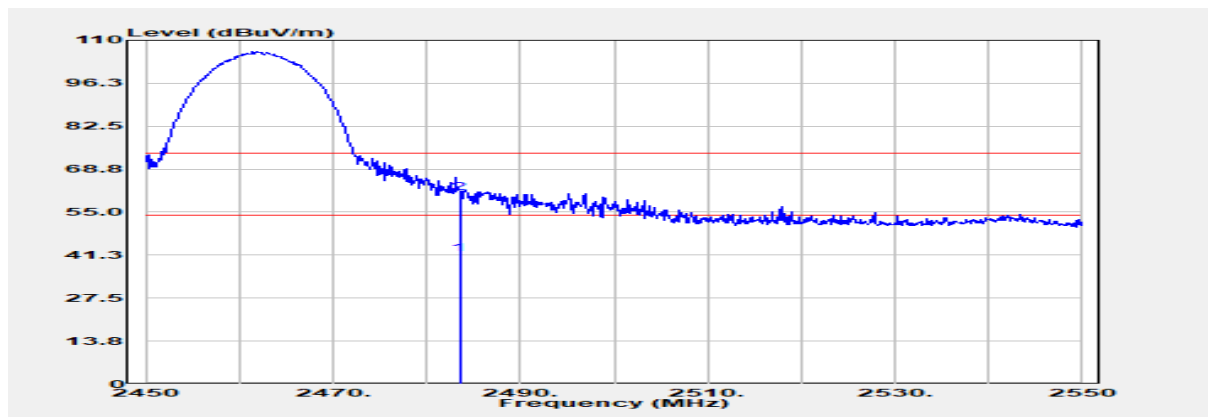
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	49.75	-8.12	41.63	54.00	-12.37
2483.500	Peak	69.33	-8.12	61.21	74.00	-12.79

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH High

EUT Pol :E2 Plane

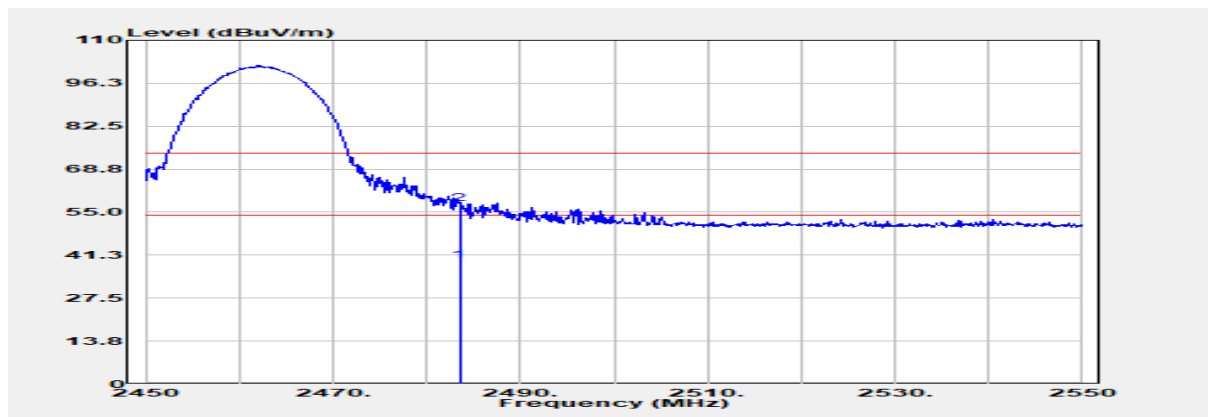
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.64	-8.12	39.52	54.00	-14.48
2483.500	Peak	65.72	-8.12	57.60	74.00	-16.40

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

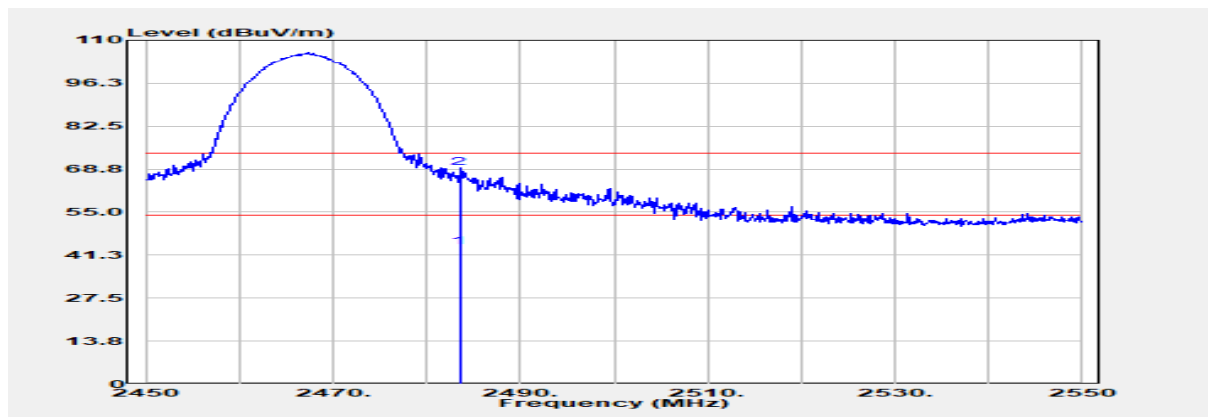
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	51.91	-8.12	43.79	54.00	-10.21
2483.500	Peak	77.43	-8.12	69.31	74.00	-4.69

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

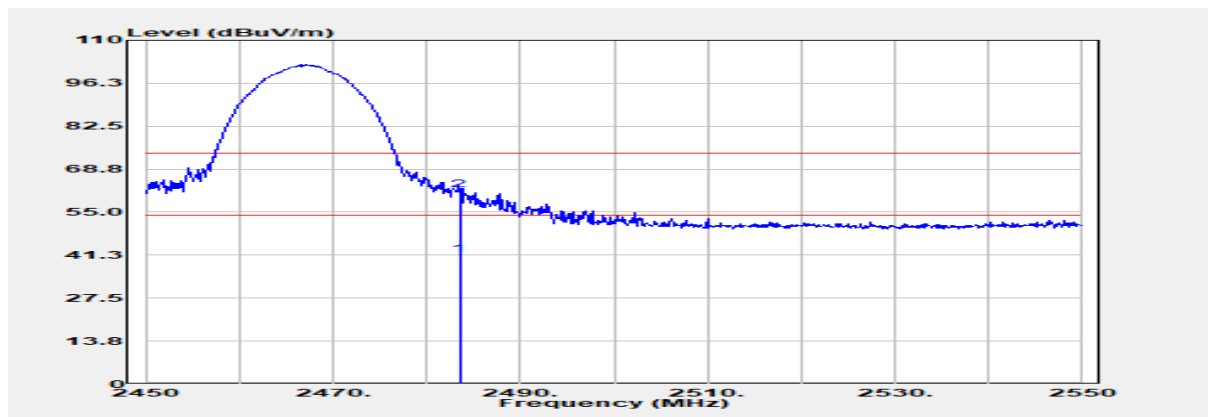
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	49.48	-8.12	41.36	54.00	-12.64
2483.500	Peak	70.06	-8.12	61.95	74.00	-12.05

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

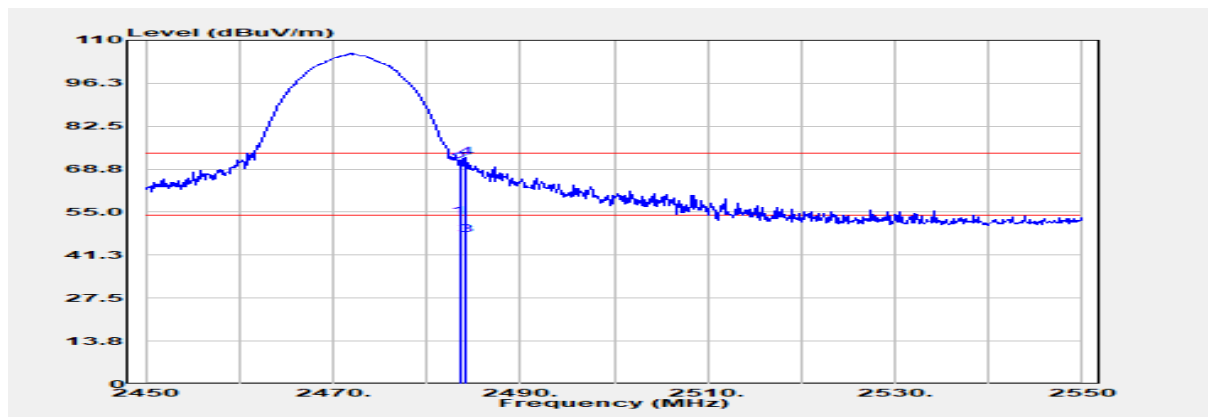
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	61.60	-8.12	53.48	54.00	-0.52
2483.500	Peak	78.79	-8.12	70.67	74.00	-3.33
2484.100	Average	55.95	-8.12	47.83	54.00	-6.17
2484.100	Peak	80.61	-8.12	72.48	74.00	-1.52

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

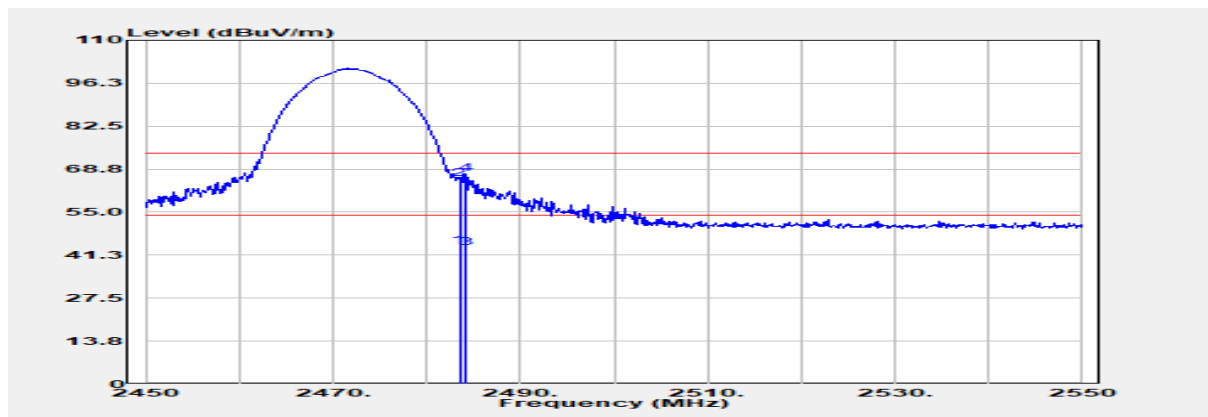
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.11	-8.12	43.99	54.00	-10.01
2483.500	Peak	73.81	-8.12	65.69	74.00	-8.31
2484.100	Average	51.79	-8.12	43.67	54.00	-10.33
2484.100	Peak	75.37	-8.12	67.25	74.00	-6.75

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-23

Test Frequency :2412 MHz

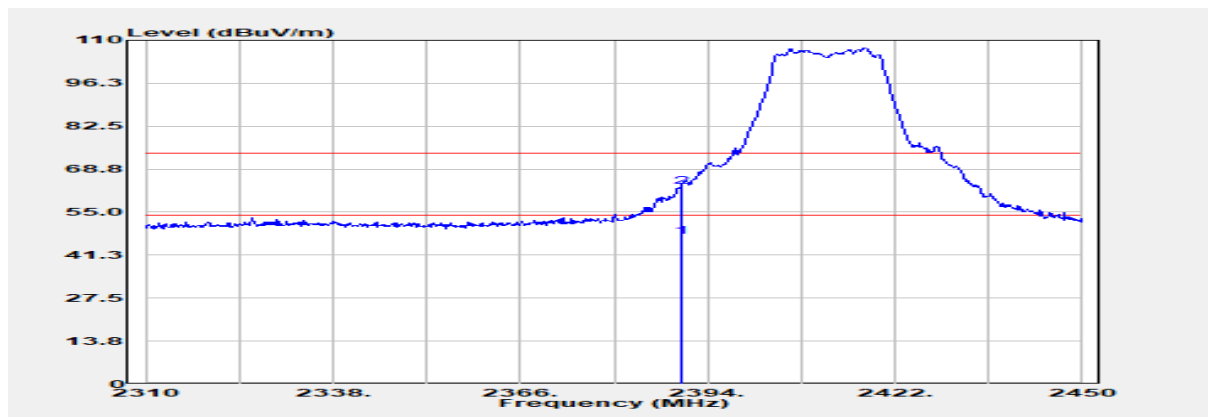
Temp./Humi. :21.5/67

Test Mode :BE CH Low

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.000	Average	55.03	-7.99	47.04	54.00	-6.96
2390.000	Peak	71.11	-7.99	63.12	74.00	-10.88

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-23

Test Frequency :2412 MHz

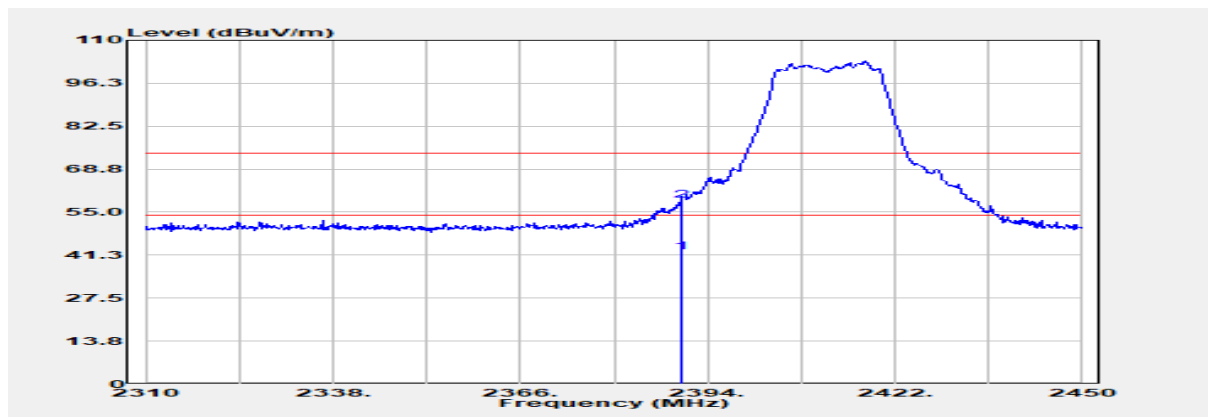
Temp./Humi. :21.5/67

Test Mode :BE CH Low

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	50.24	-7.99	42.25	54.00	-11.75
2390.000	Peak	66.58	-7.99	58.60	74.00	-15.40

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-23

Test Frequency :2462 MHz

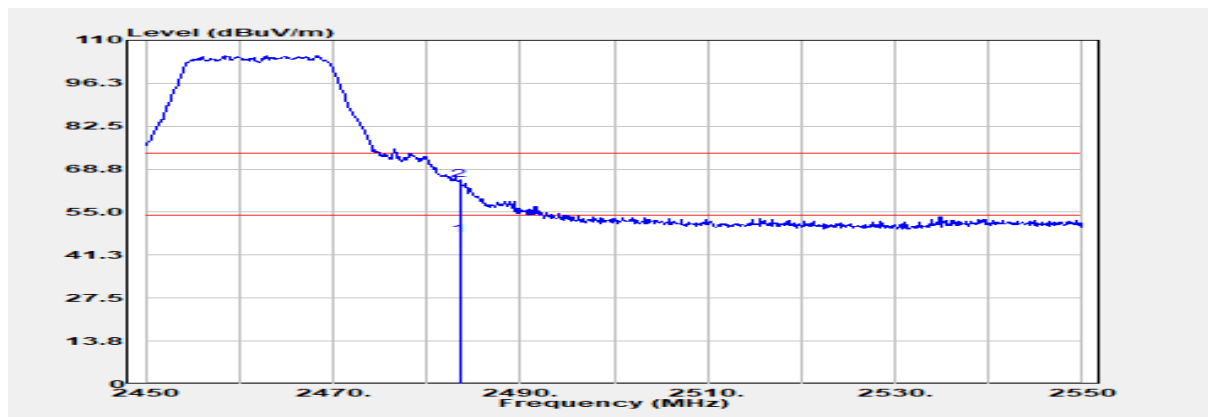
Temp./Humi. :21.5/67

Test Mode :BE CH High

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	55.73	-8.12	47.61	54.00	-6.39
2483.500	Peak	73.51	-8.12	65.39	74.00	-8.61

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-23

Test Frequency :2462 MHz

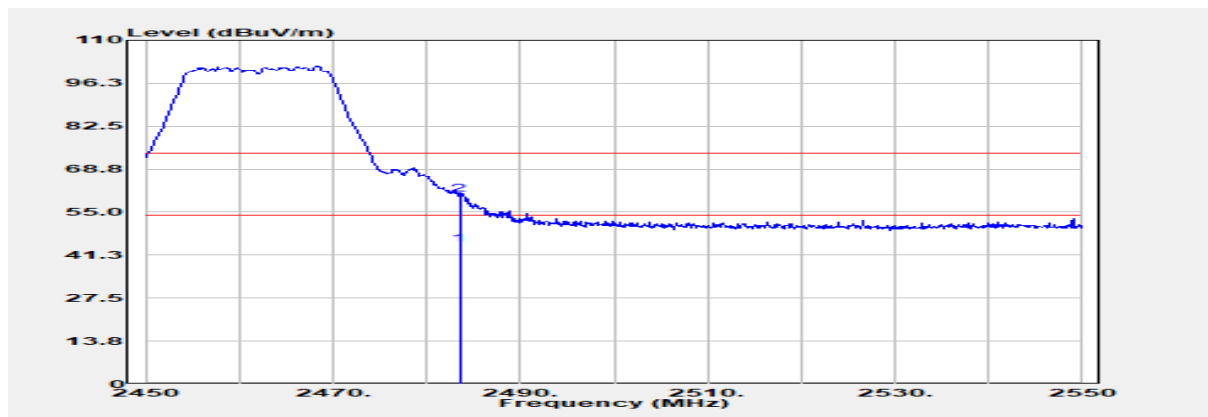
Temp./Humi. :21.5/67

Test Mode :BE CH High

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.82	-8.12	44.70	54.00	-9.30
2483.500	Peak	68.71	-8.12	60.59	74.00	-13.41

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

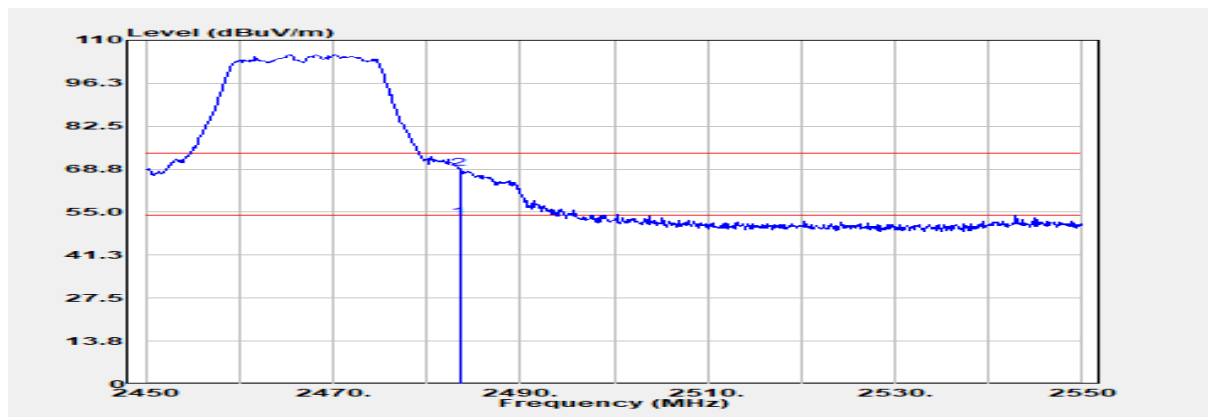
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	61.22	-8.12	53.10	54.00	-0.90
2483.500	Peak	77.13	-8.12	69.01	74.00	-4.99

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

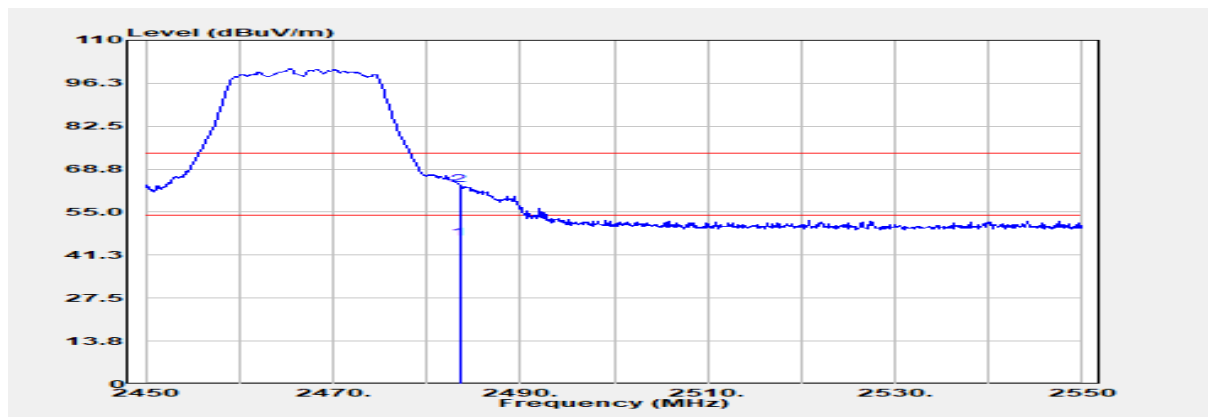
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.73	-8.12	46.61	54.00	-7.39
2483.500	Peak	71.91	-8.12	63.79	74.00	-10.21

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

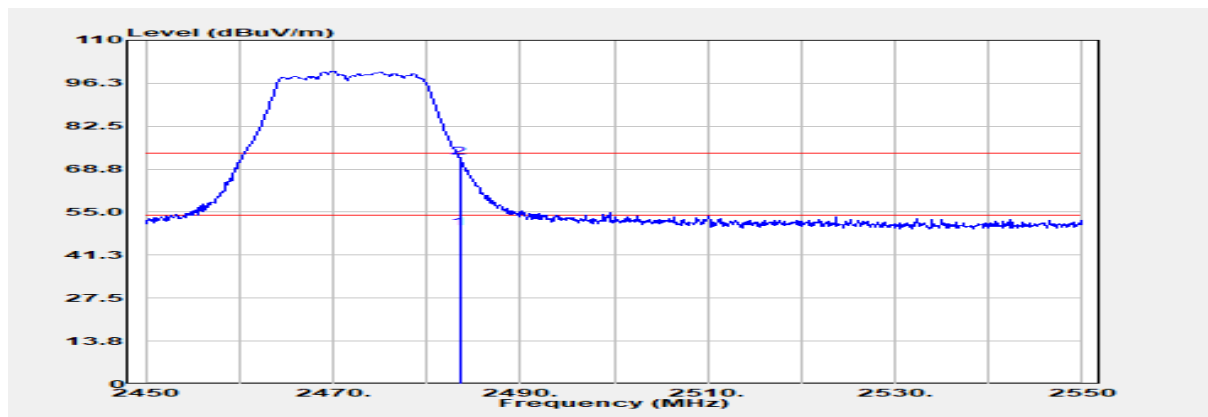
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	58.12	-8.12	50.00	54.00	-4.00
2483.500	Peak	80.52	-8.12	72.40	74.00	-1.60

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

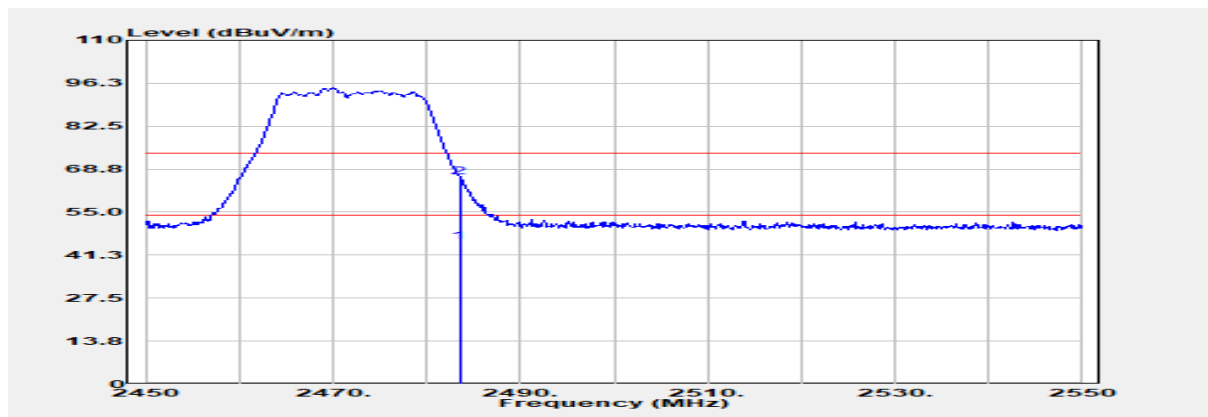
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	53.66	-8.12	45.54	54.00	-8.46
2483.500	Peak	74.33	-8.12	66.21	74.00	-7.79

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11n20

Test Date :2021-04-23

Test Frequency :2412 MHz

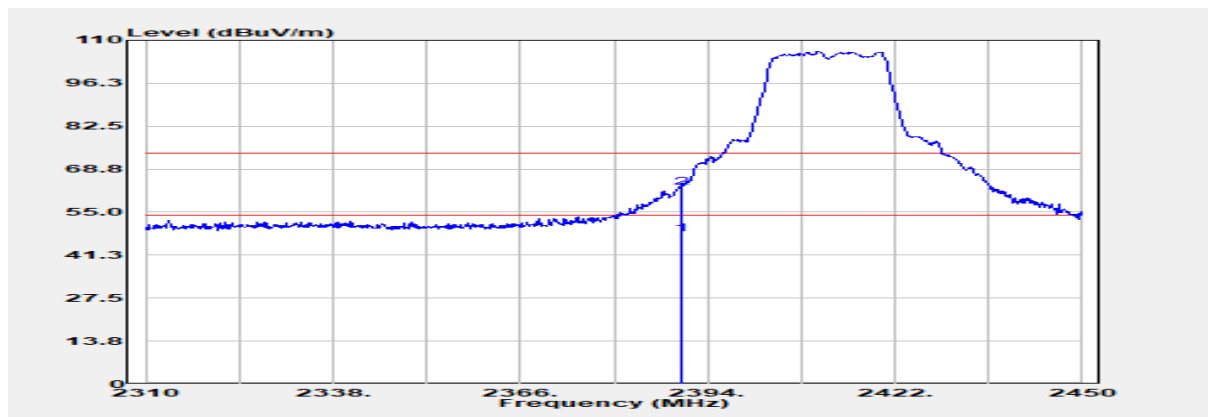
Temp./Humi. :21.5/67

Test Mode :BE CH Low

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.000	Average	56.07	-7.99	48.08	54.00	-5.92
2390.000	Peak	70.75	-7.99	62.77	74.00	-11.23

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11n20

Test Date :2021-04-23

Test Frequency :2412 MHz

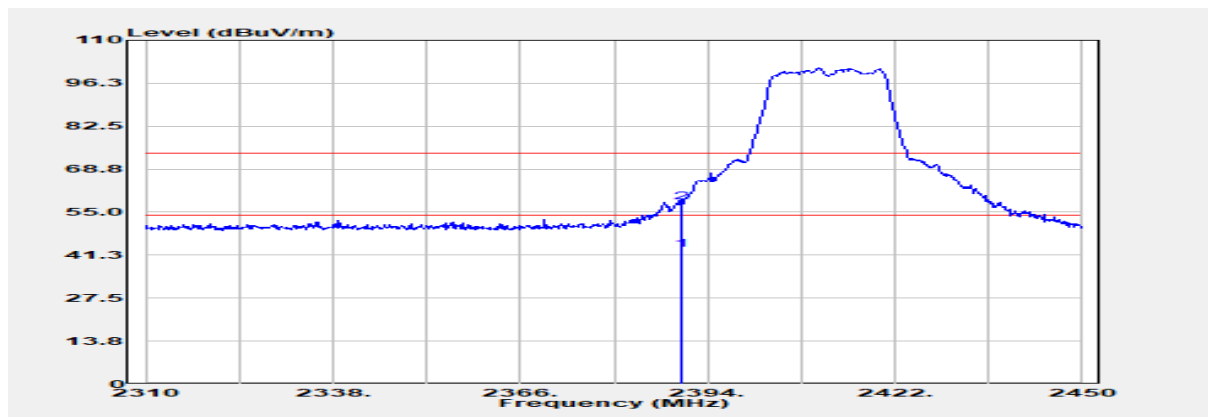
Temp./Humi. :21.5/67

Test Mode :BE CH Low

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	50.94	-7.99	42.95	54.00	-11.05
2390.000	Peak	66.23	-7.99	58.24	74.00	-15.76

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :BE CH High

EUT Pol :E2 Plane

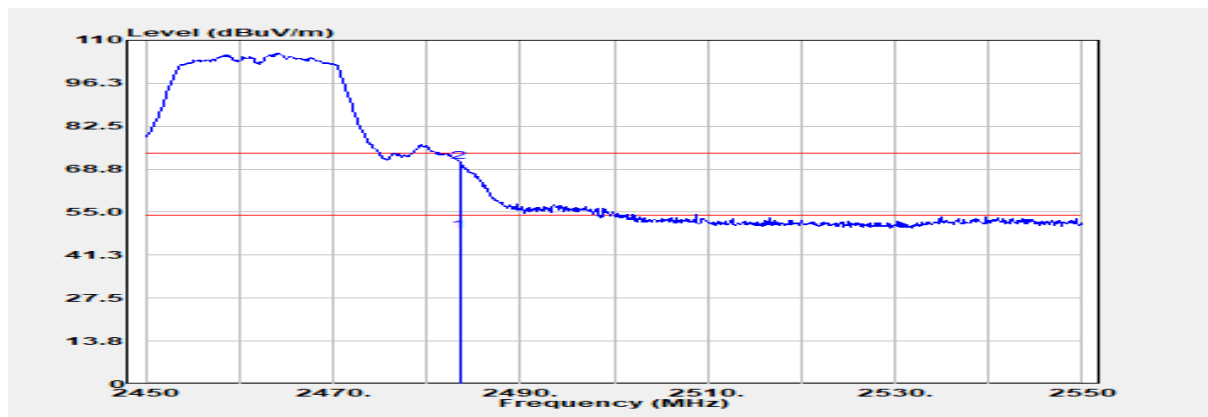
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	57.28	-8.12	49.16	54.00	-4.84
2483.500	Peak	79.28	-8.12	71.16	74.00	-2.84

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11n20

Test Date :2021-04-23

Test Frequency :2462 MHz

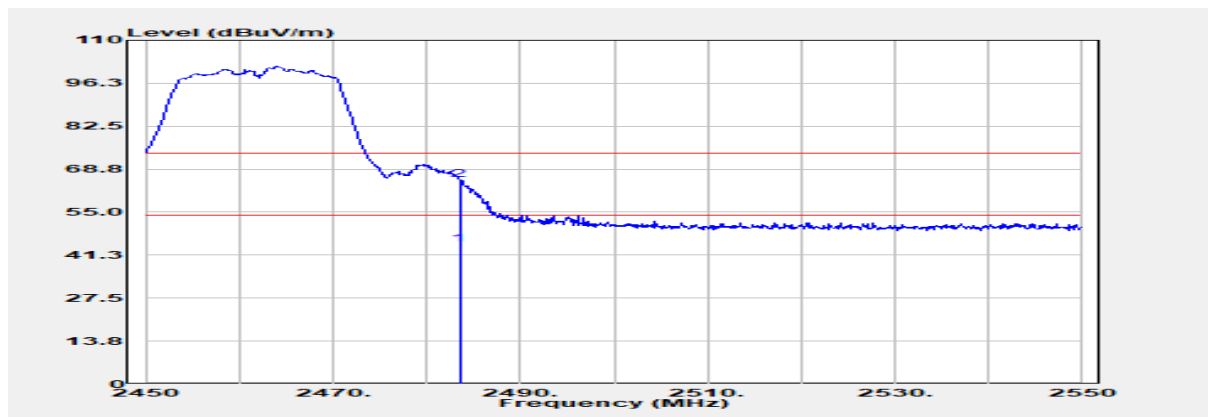
Temp./Humi. :21.5/67

Test Mode :BE CH High

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.67	-8.12	44.55	54.00	-9.45
2483.500	Peak	73.34	-8.12	65.22	74.00	-8.78

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

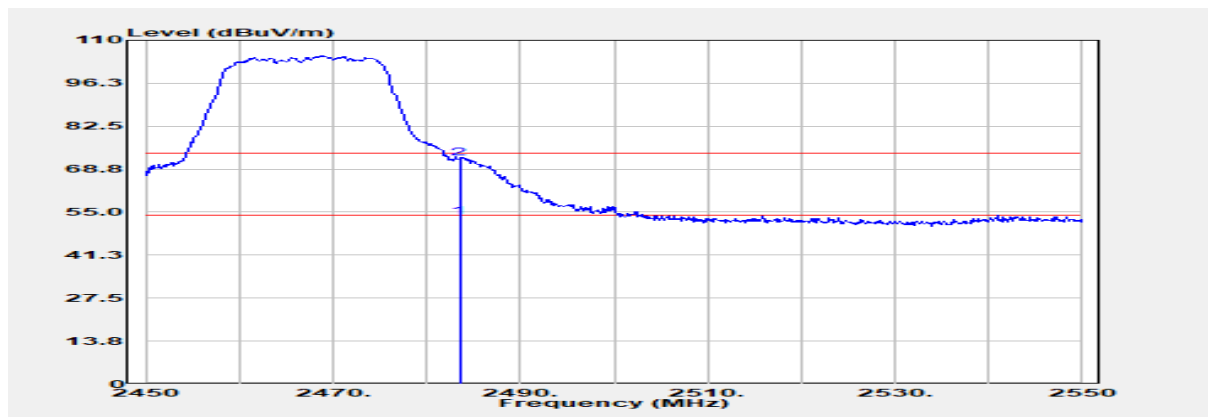
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	61.52	-8.12	53.40	54.00	-0.60
2483.500	Peak	80.47	-8.12	72.35	74.00	-1.65

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :E2 Plane

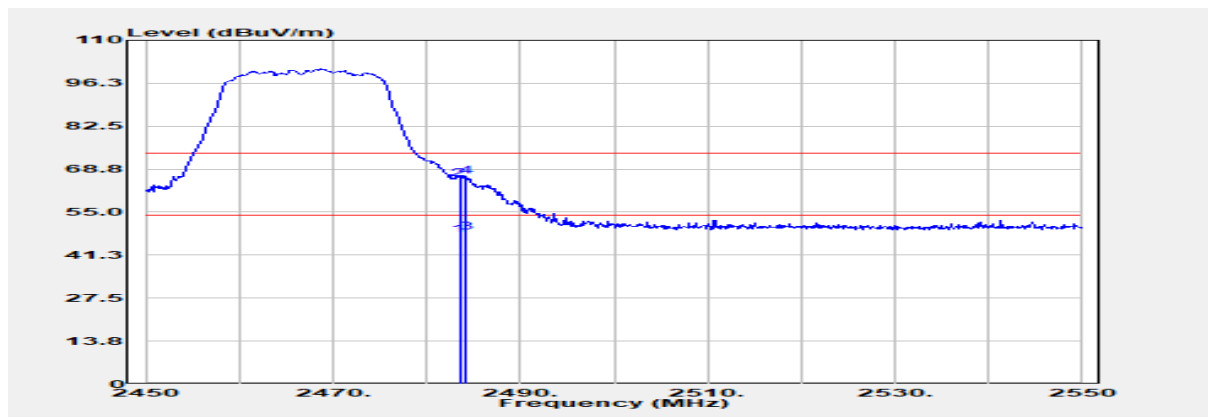
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	55.79	-8.12	47.67	54.00	-6.33
2483.500	Peak	73.86	-8.12	65.74	74.00	-8.26
2484.200	Average	56.66	-8.12	48.54	54.00	-5.46
2484.200	Peak	74.69	-8.12	66.56	74.00	-7.44

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

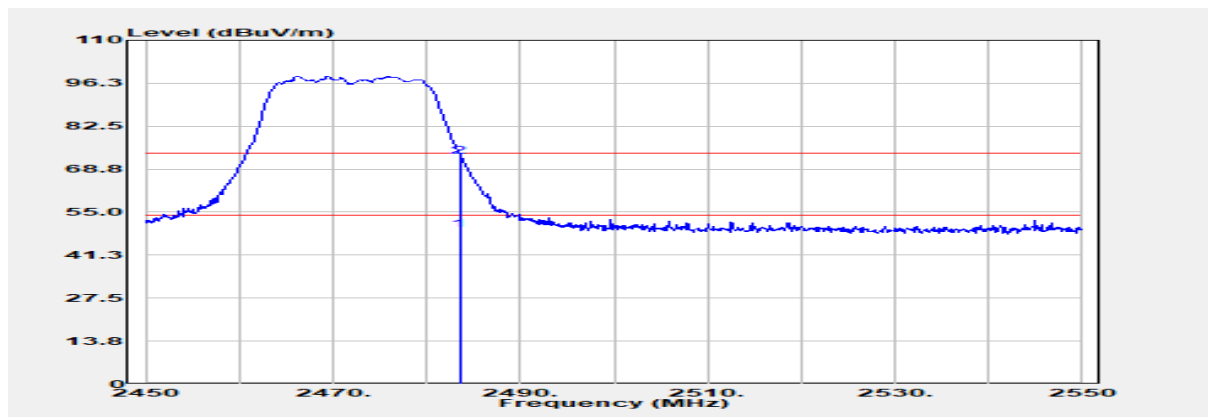
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	57.58	-8.12	49.46	54.00	-4.54
2483.500	Peak	81.02	-8.12	72.90	74.00	-1.10

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :E2 Plane

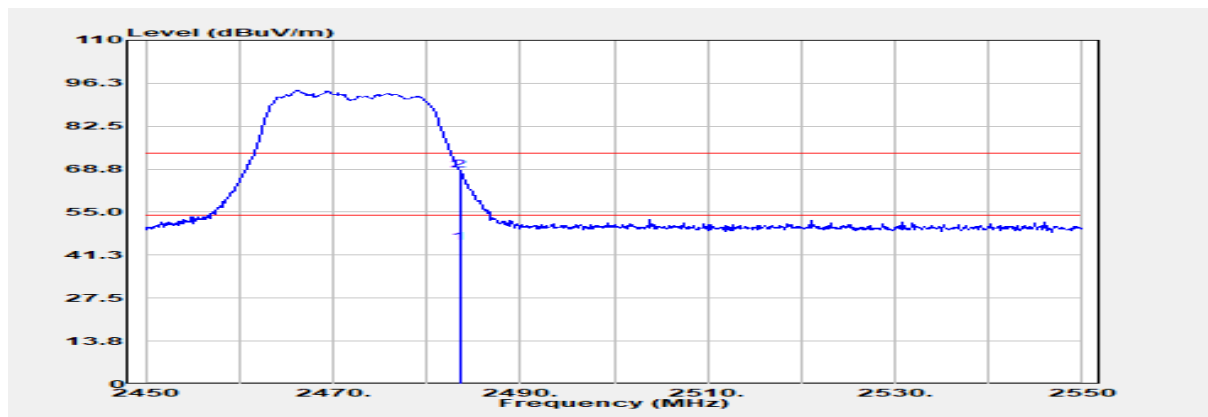
Test Site :966 Chamber D

Test Date :2021-04-23

Temp./Humi. :21.5/67

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.36	-8.12	45.24	54.00	-8.76
2483.500	Peak	76.50	-8.12	68.38	74.00	-5.62

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11.7.2 Below 1GHz Worst-Case Emission:

Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-28

Test Frequency :2437 MHz

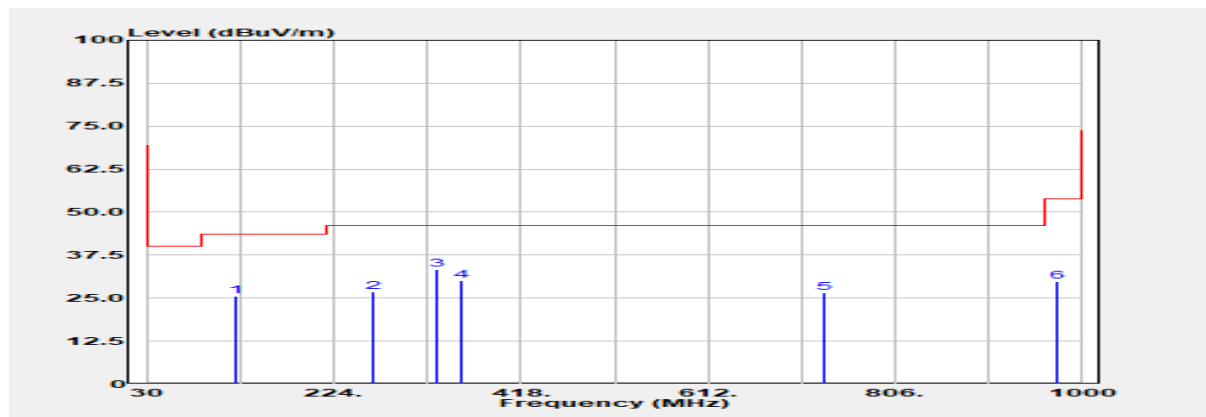
Temp./Humi. :22.3/66

Test Mode :Tx CH Mid

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
122.150	Peak	44.60	-19.03	25.57	43.50	-17.93
265.710	Peak	44.18	-17.30	26.89	46.00	-19.11
331.670	Peak	48.68	-15.40	33.28	46.00	-12.72
356.890	Peak	44.83	-14.82	30.01	46.00	-15.99
731.310	Peak	33.99	-7.38	26.61	46.00	-19.39
972.840	Peak	34.09	-4.16	29.93	54.00	-24.07

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-28

Test Frequency :2437 MHz

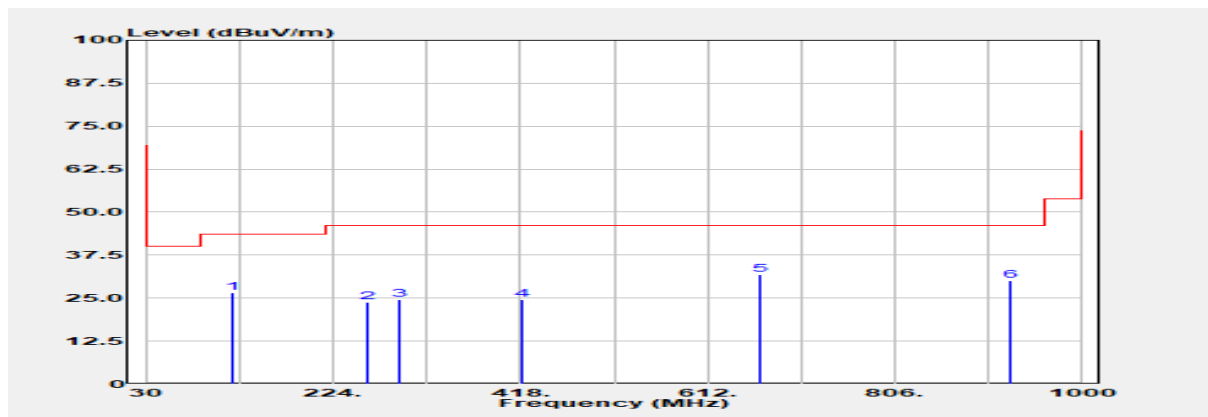
Temp./Humi. :22.3/66

Test Mode :Tx CH Mid

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
120.210	Peak	45.78	-19.27	26.51	43.50	-16.99
258.920	Peak	41.57	-17.88	23.69	46.00	-22.31
291.900	Peak	40.85	-16.33	24.53	46.00	-21.47
420.910	Peak	37.91	-13.23	24.68	46.00	-21.32
666.320	Peak	41.22	-9.30	31.92	46.00	-14.08
924.340	Peak	35.15	-5.09	30.06	46.00	-15.94

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11.7.3 Above 1GHz Emission:

Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-28

Test Frequency :2412 MHz

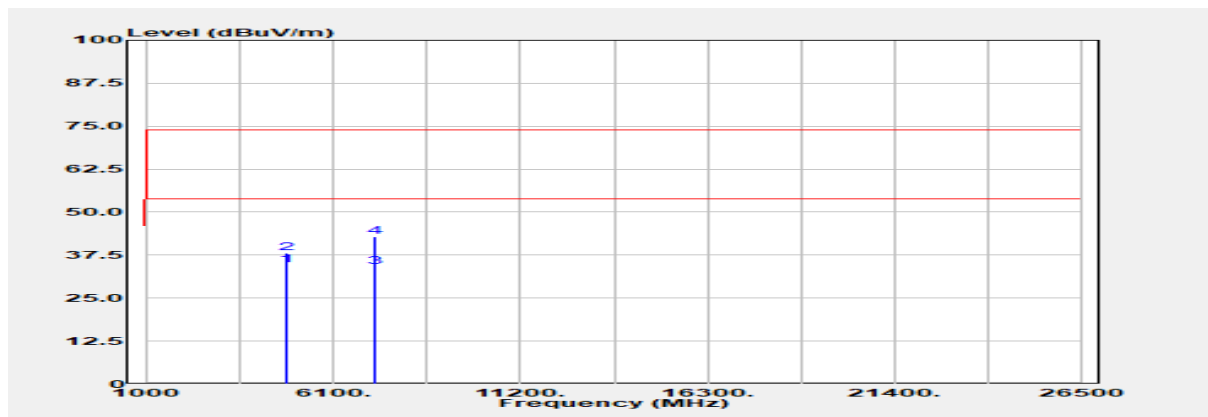
Temp./Humi. :22.3/69

Test Mode :Tx CH Low

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	37.82	-3.13	34.69	54.00	-19.31
4824.000	Peak	41.21	-3.13	38.08	74.00	-35.92
7236.000	Average	31.62	2.41	34.03	54.00	-19.97
7236.000	Peak	40.33	2.41	42.74	74.00	-31.26

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Tx CH Low

EUT Pol :E2 Plane

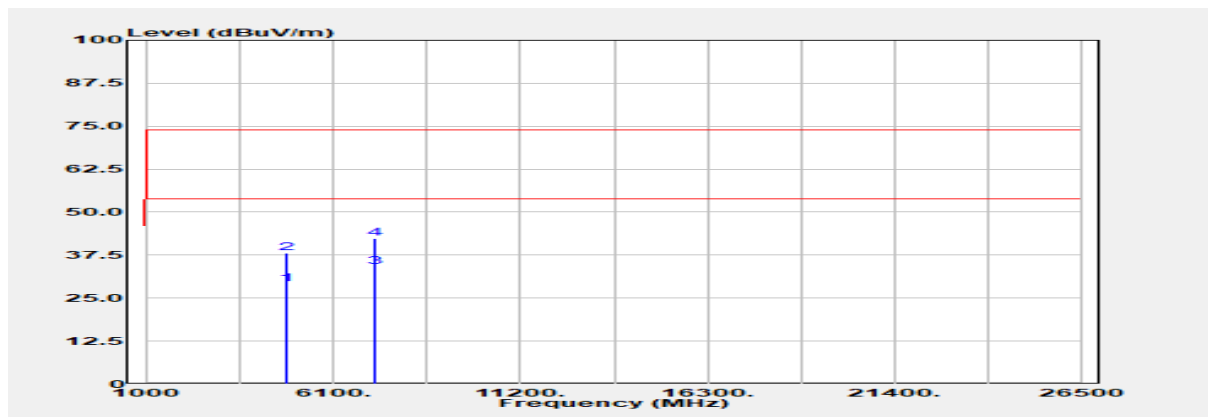
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.28	-3.13	29.15	54.00	-24.85
4824.000	Peak	41.13	-3.13	38.01	74.00	-35.99
7236.000	Average	31.59	2.41	34.00	54.00	-20.00
7236.000	Peak	39.84	2.41	42.25	74.00	-31.75

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-28

Test Frequency :2437 MHz

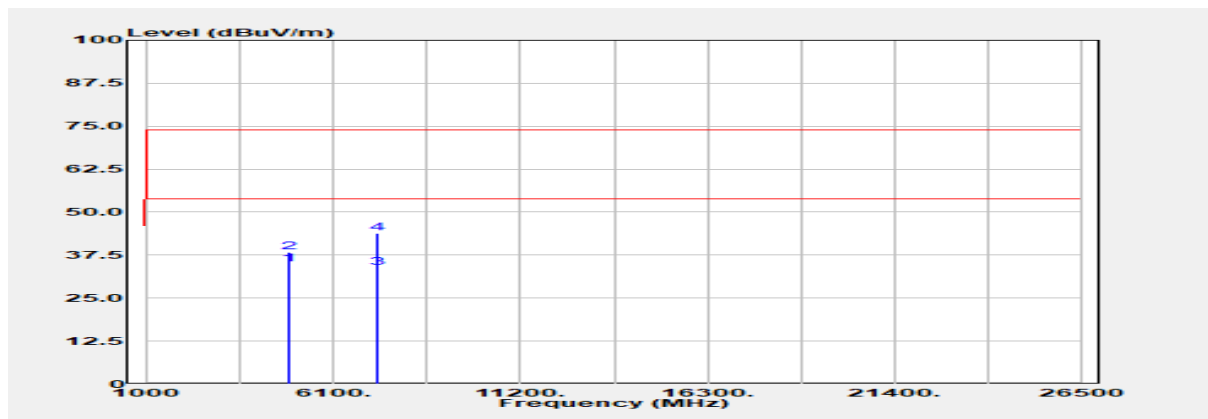
Temp./Humi. :22.3/69

Test Mode :Tx CH Mid

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	37.75	-3.00	34.75	54.00	-19.25
4874.000	Peak	41.39	-3.00	38.39	74.00	-35.61
7311.000	Average	29.96	3.86	33.82	54.00	-20.18
7311.000	Peak	39.96	3.86	43.82	74.00	-30.18

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-28

Test Frequency :2437 MHz

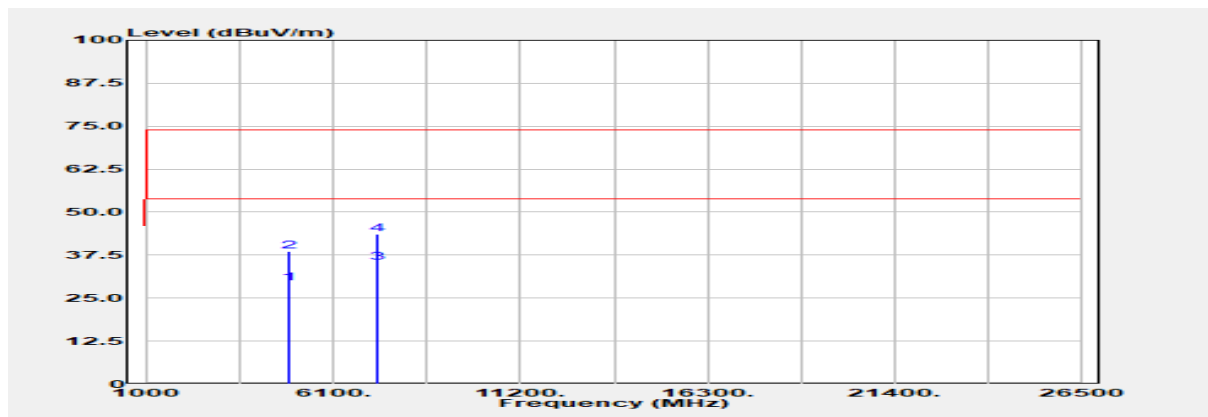
Temp./Humi. :22.3/69

Test Mode :Tx CH Mid

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	32.40	-3.00	29.40	54.00	-24.60
4874.000	Peak	41.52	-3.00	38.52	74.00	-35.48
7311.000	Average	31.45	3.86	35.31	54.00	-18.69
7311.000	Peak	39.75	3.86	43.61	74.00	-30.39

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-28

Test Frequency :2462 MHz

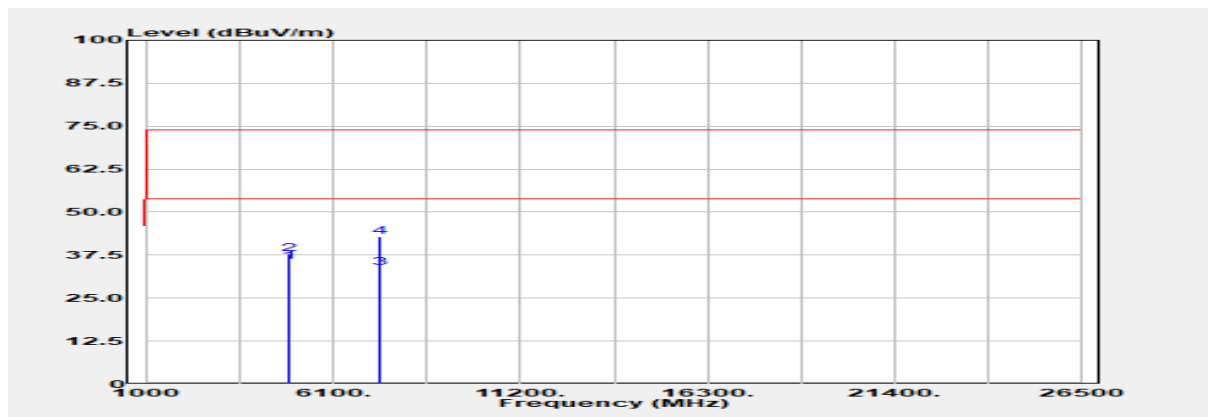
Temp./Humi. :22.3/69

Test Mode :Tx CH High

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	38.81	-3.21	35.60	54.00	-18.40
4924.000	Peak	40.98	-3.21	37.77	74.00	-36.23
7386.000	Average	30.90	3.04	33.94	54.00	-20.06
7386.000	Peak	39.70	3.04	42.73	74.00	-31.27

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11b

Test Date :2021-04-28

Test Frequency :2462 MHz

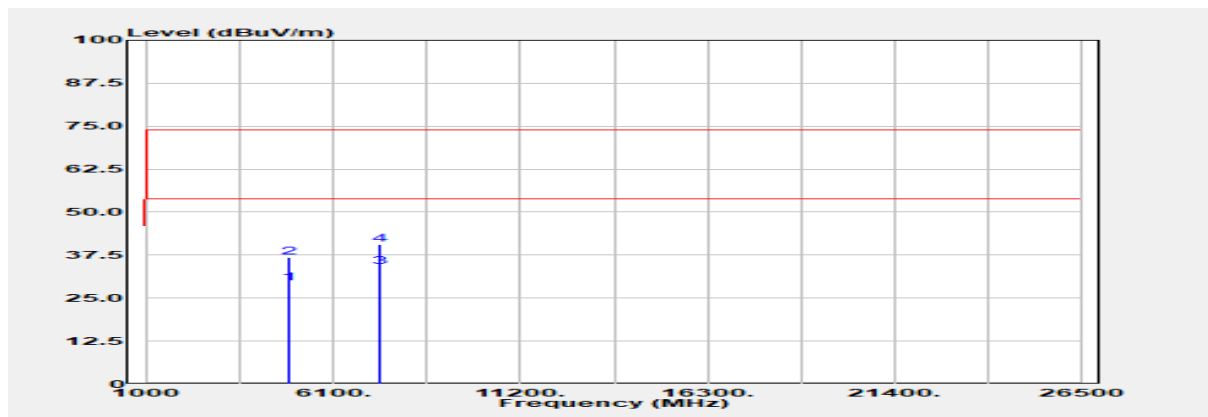
Temp./Humi. :22.3/69

Test Mode :Tx CH High

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.58	-3.21	29.37	54.00	-24.63
4924.000	Peak	40.02	-3.21	36.81	74.00	-37.19
7386.000	Average	31.01	3.04	34.05	54.00	-19.95
7386.000	Peak	37.64	3.04	40.68	74.00	-33.32

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

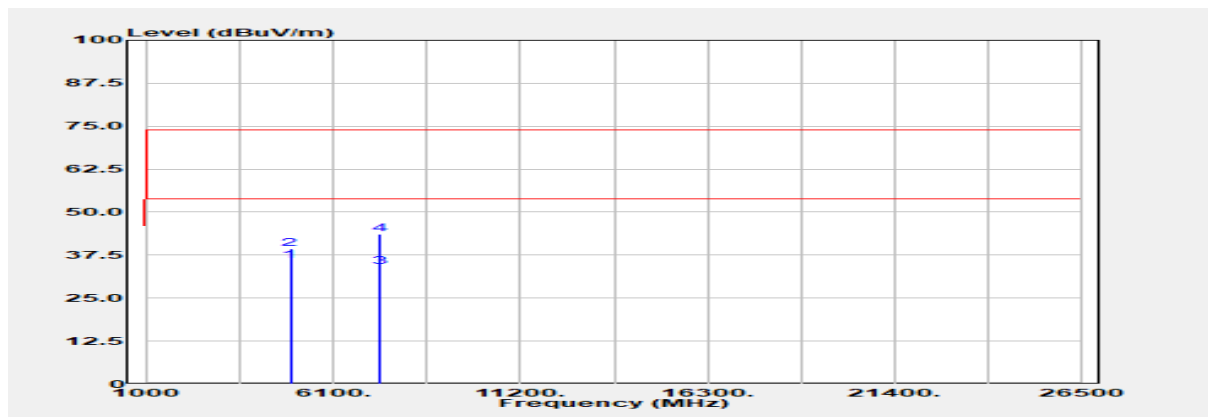
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	38.78	-3.06	35.72	54.00	-18.28
4934.000	Peak	42.40	-3.06	39.34	74.00	-34.66
7401.000	Average	30.61	3.53	34.14	54.00	-19.86
7401.000	Peak	40.04	3.53	43.57	74.00	-30.43

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

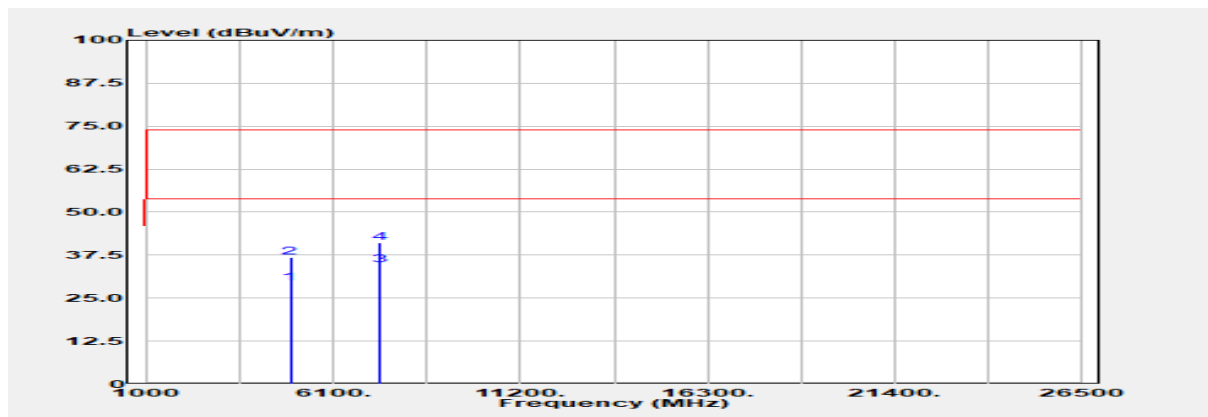
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	32.47	-3.06	29.41	54.00	-24.59
4934.000	Peak	39.95	-3.06	36.89	74.00	-37.11
7401.000	Average	31.08	3.53	34.61	54.00	-19.39
7401.000	Peak	37.67	3.53	41.20	74.00	-32.80

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

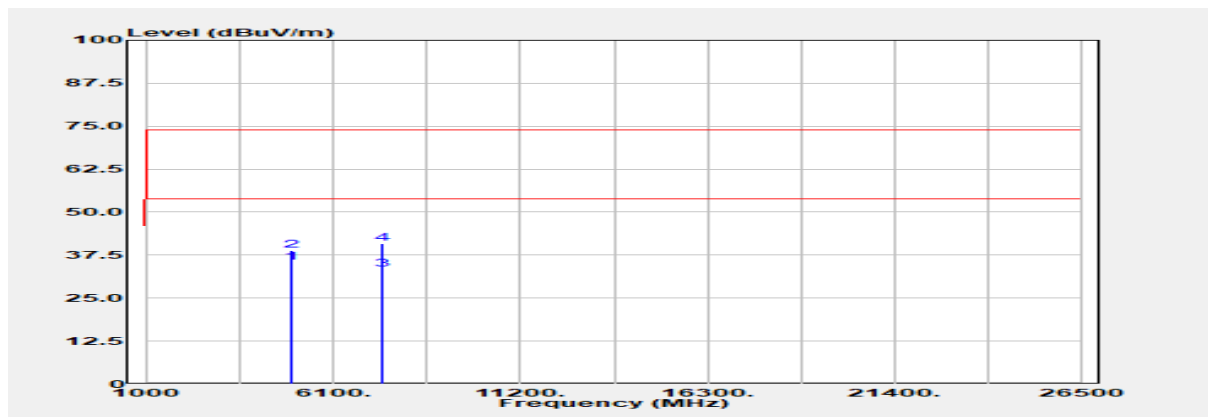
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Average	37.82	-2.58	35.24	54.00	-18.76
4944.000	Peak	41.36	-2.58	38.78	74.00	-35.22
7416.000	Average	30.70	2.75	33.45	54.00	-20.55
7416.000	Peak	38.20	2.75	40.95	74.00	-33.05

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Report Number :E2/2021/30065

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

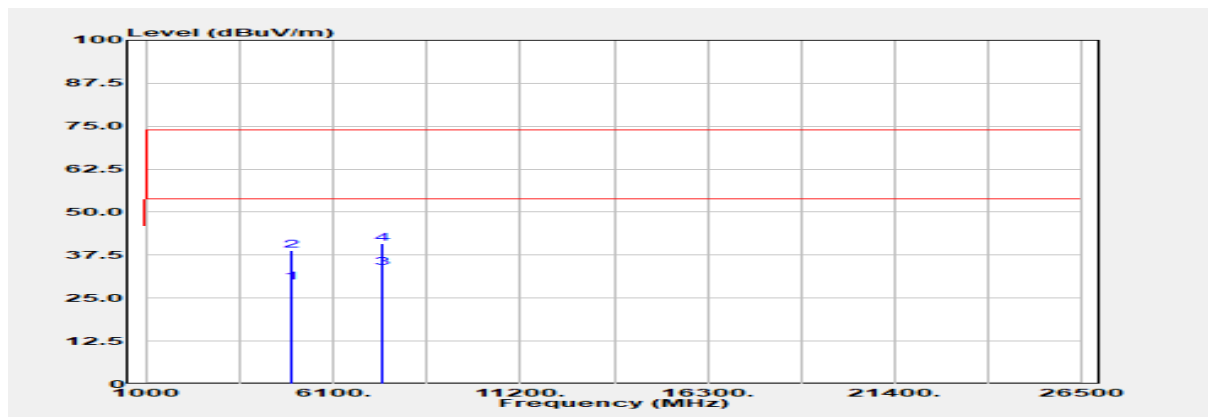
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4944.000	Average	32.16	-2.58	29.58	54.00	-24.42
4944.000	Peak	41.41	-2.58	38.83	74.00	-35.17
7416.000	Average	31.10	2.75	33.85	54.00	-20.15
7416.000	Peak	38.14	2.75	40.89	74.00	-33.11

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Report Number :E2/2021/30065

Test Site :966 Chamber D

Operation Mode :802.11g

Test Date :2021-04-28

Test Frequency :2412 MHz

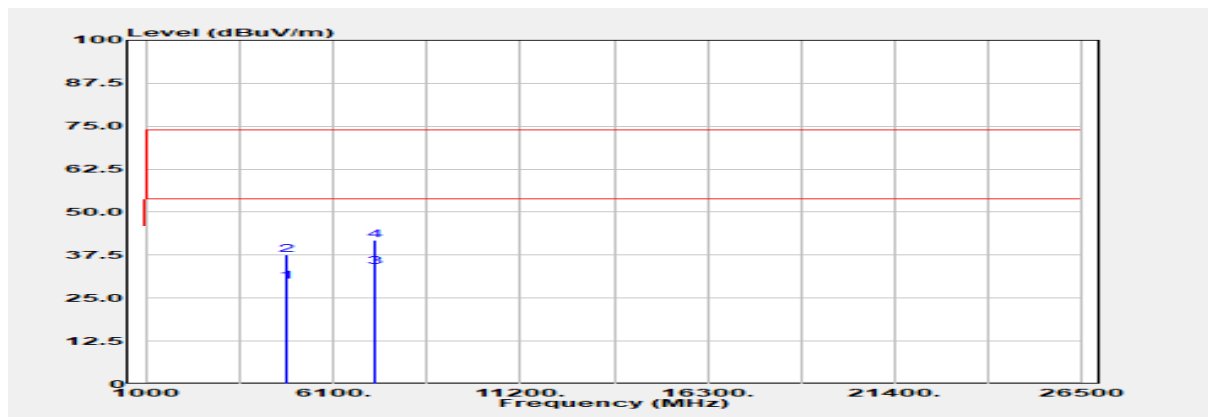
Temp./Humi. :22.3/69

Test Mode :Tx CH Low

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.91	-3.13	29.78	54.00	-24.22
4824.000	Peak	40.82	-3.13	37.69	74.00	-36.31
7236.000	Average	31.63	2.41	34.04	54.00	-19.96
7236.000	Peak	39.53	2.41	41.94	74.00	-32.06

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Tx CH Low

EUT Pol :E2 Plane

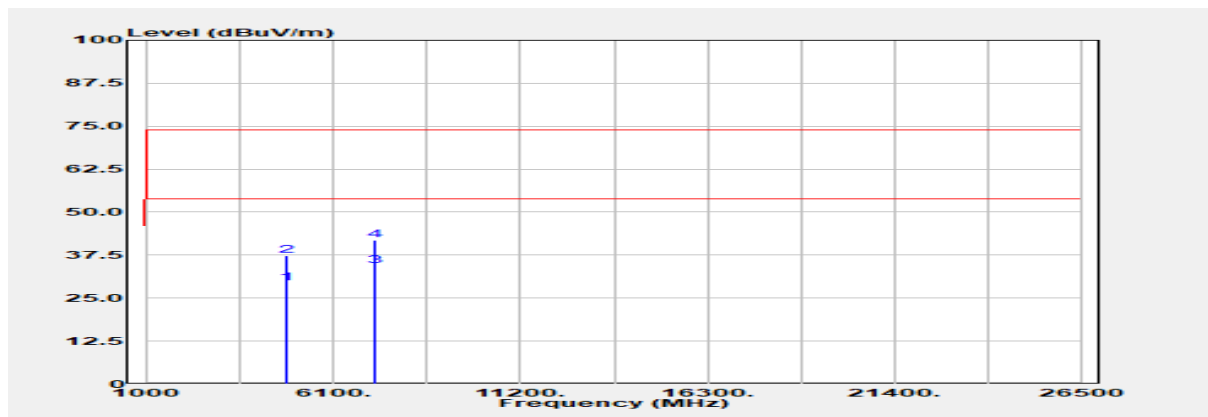
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.35	-3.13	29.22	74.00	-44.78
4824.000	Peak	40.51	-3.13	37.39	74.00	-36.61
7236.000	Average	31.99	2.41	34.40	54.00	-19.60
7236.000	Peak	39.54	2.41	41.95	74.00	-32.05

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

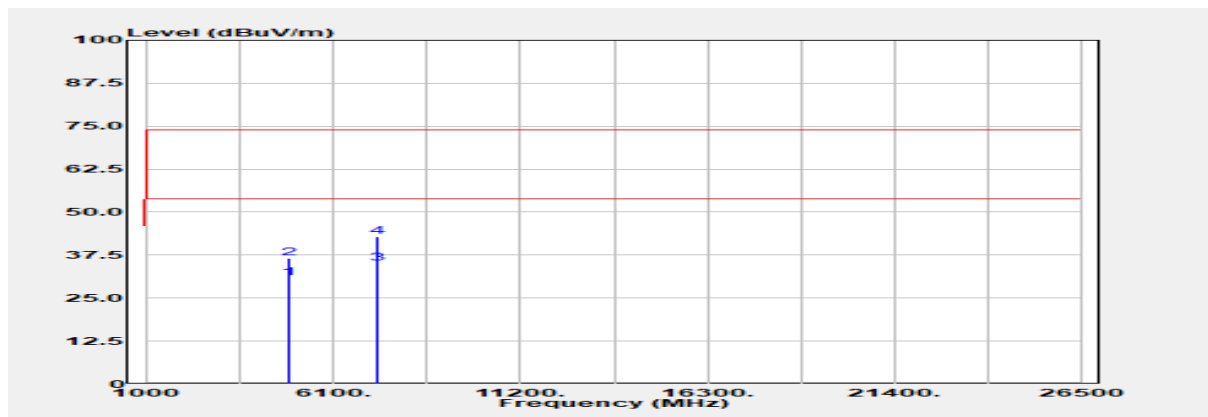
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	33.71	-3.00	30.71	54.00	-23.29
4874.000	Peak	39.65	-3.00	36.65	74.00	-37.35
7311.000	Average	31.31	3.86	35.17	54.00	-18.83
7311.000	Peak	38.90	3.86	42.76	74.00	-31.24

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

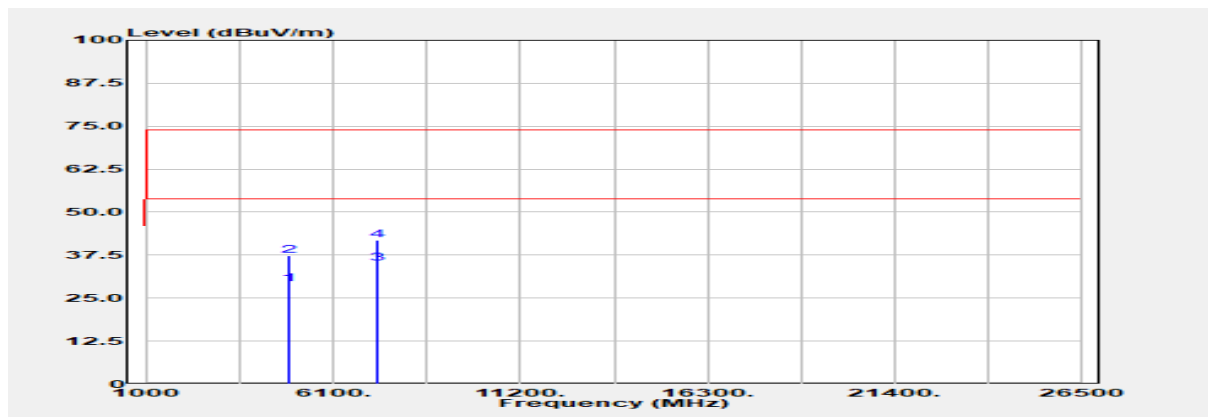
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	32.17	-3.00	29.17	54.00	-24.83
4874.000	Peak	40.44	-3.00	37.44	74.00	-36.56
7311.000	Average	31.27	3.86	35.13	54.00	-18.87
7311.000	Peak	37.89	3.86	41.75	74.00	-32.25

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Tx CH High

EUT Pol :E2 Plane

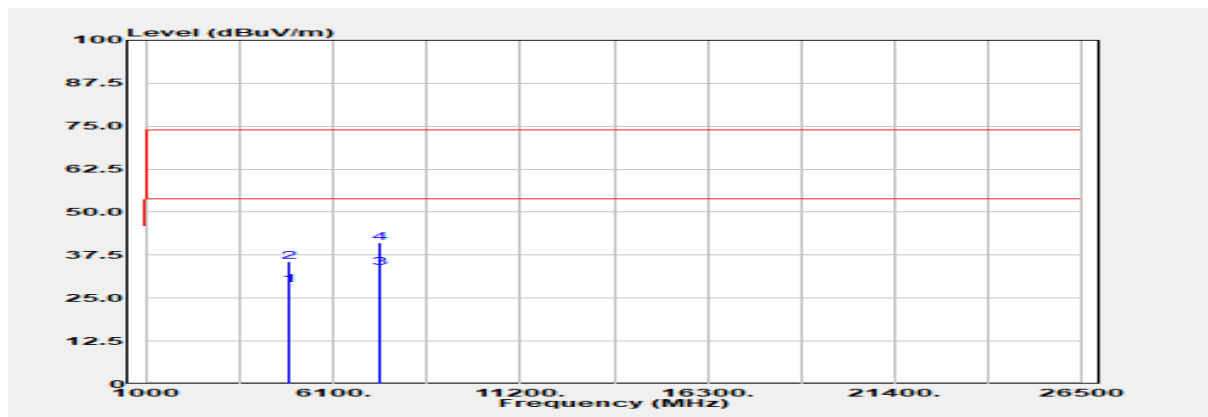
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.10	-3.21	28.89	54.00	-25.11
4924.000	Peak	38.87	-3.21	35.66	74.00	-38.34
7386.000	Average	30.79	3.04	33.83	54.00	-20.17
7386.000	Peak	38.15	3.04	41.19	74.00	-32.81

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Tx CH High

EUT Pol :E2 Plane

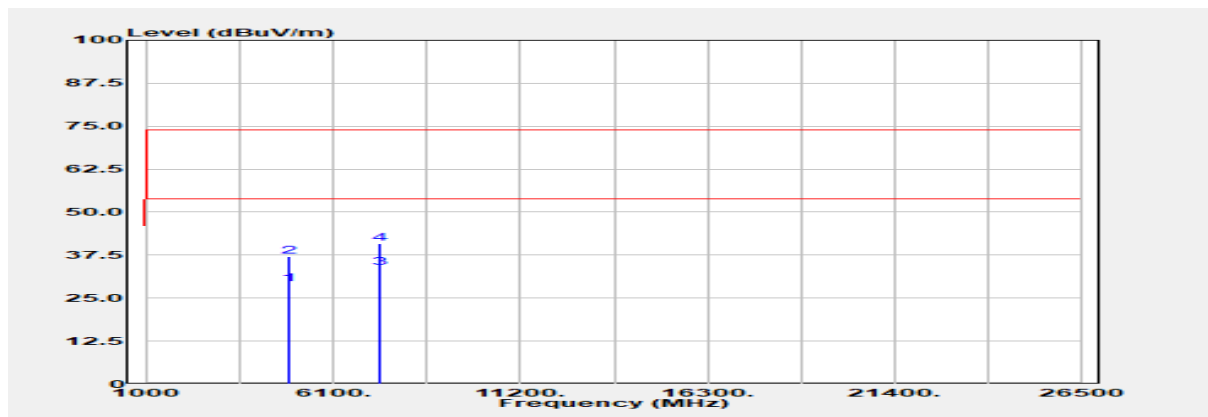
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.34	-3.21	29.13	54.00	-24.87
4924.000	Peak	40.38	-3.21	37.17	74.00	-36.83
7386.000	Average	30.80	3.04	33.84	54.00	-20.16
7386.000	Peak	37.73	3.04	40.77	74.00	-33.23

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

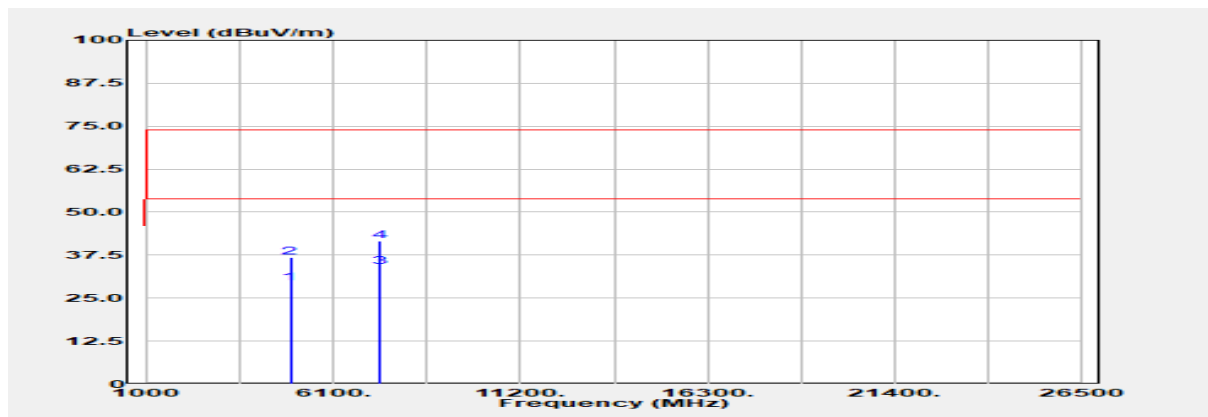
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	32.28	-3.06	29.22	54.00	-24.78
4934.000	Peak	39.85	-3.06	36.78	74.00	-37.22
7401.000	Average	30.54	3.53	34.07	54.00	-19.93
7401.000	Peak	37.96	3.53	41.49	74.00	-32.51

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

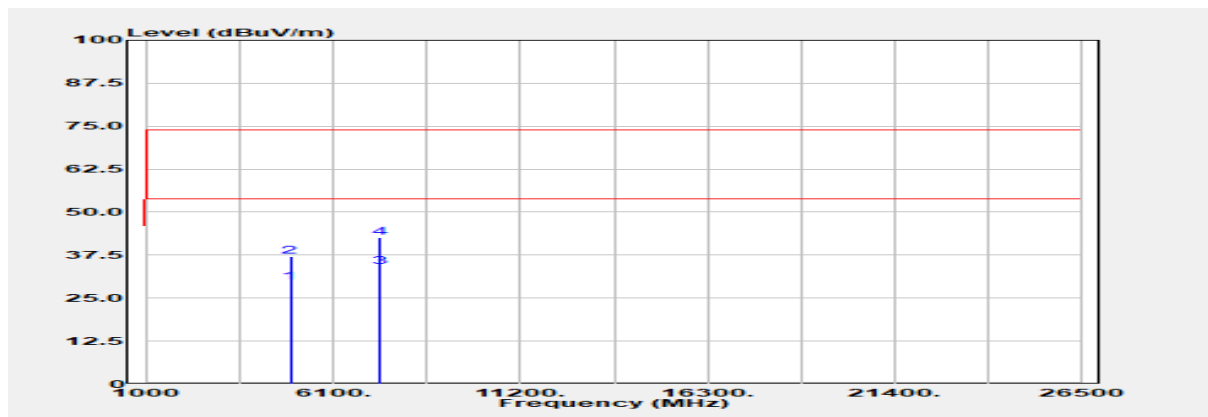
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	32.52	-3.06	29.46	54.00	-24.54
4934.000	Peak	40.22	-3.06	37.16	74.00	-36.84
7401.000	Average	30.46	3.53	33.99	54.00	-20.01
7401.000	Peak	39.04	3.53	42.57	74.00	-31.43

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

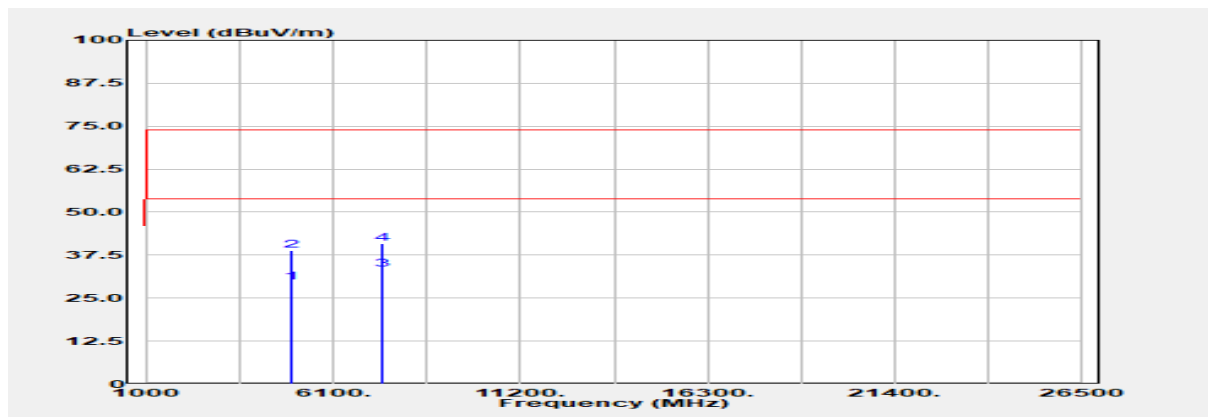
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Average	32.27	-2.58	29.69	54.00	-24.31
4944.000	Peak	41.51	-2.58	38.93	74.00	-35.07
7416.000	Average	30.48	2.75	33.23	54.00	-20.77
7416.000	Peak	38.09	2.75	40.84	74.00	-33.16

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Report Number :E2/2021/30065

Operation Mode :802.11g

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

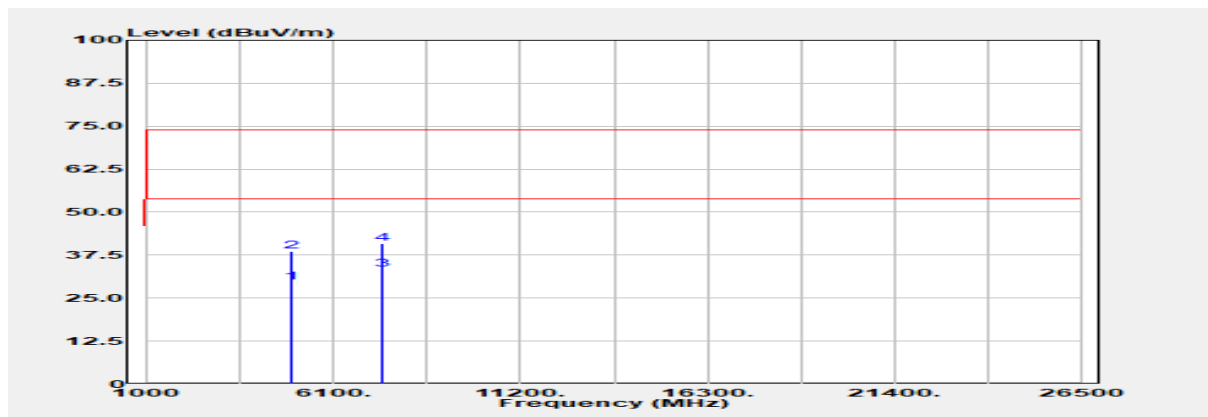
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4944.000	Average	32.25	-2.58	29.67	54.00	-24.33
4944.000	Peak	41.19	-2.58	38.61	74.00	-35.39
7416.000	Average	30.52	2.75	33.27	54.00	-20.73
7416.000	Peak	38.13	2.75	40.88	74.00	-33.12

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx CH Low

EUT Pol :E2 Plane

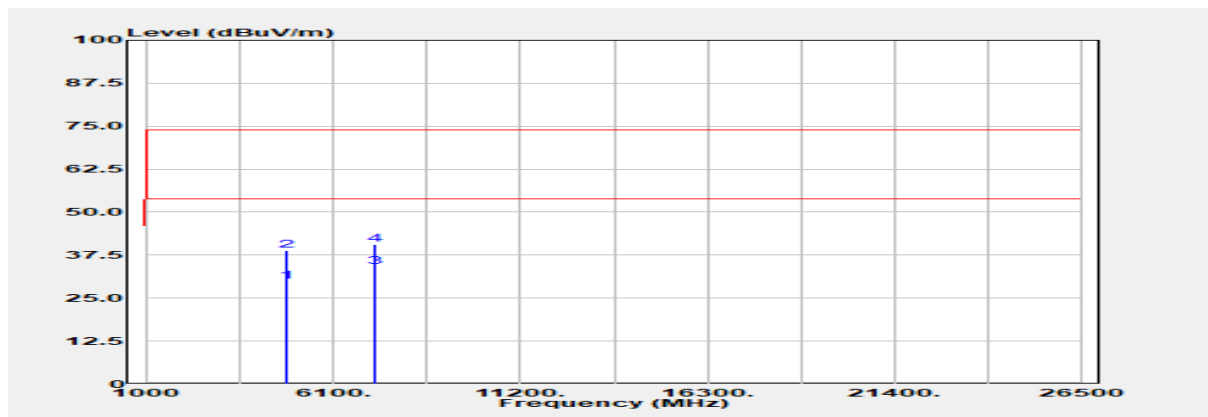
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.86	-3.13	29.73	54.00	-24.27
4824.000	Peak	42.10	-3.13	38.97	74.00	-35.03
7236.000	Average	31.55	2.41	33.96	54.00	-20.04
7236.000	Peak	38.29	2.41	40.70	74.00	-33.30

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx CH Low

EUT Pol :E2 Plane

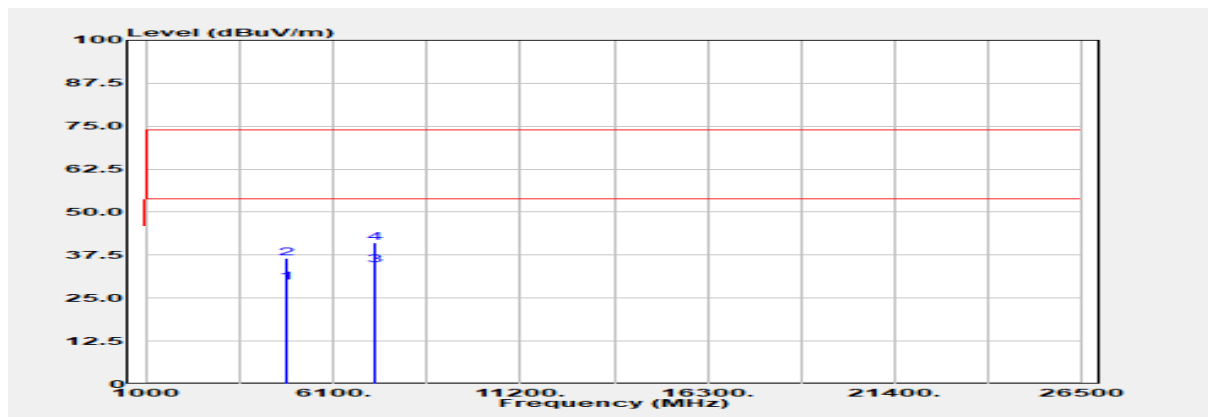
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.75	-3.13	29.62	54.00	-24.38
4824.000	Peak	39.78	-3.13	36.65	74.00	-37.35
7236.000	Average	32.26	2.41	34.67	54.00	-19.33
7236.000	Peak	38.71	2.41	41.12	74.00	-32.88

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

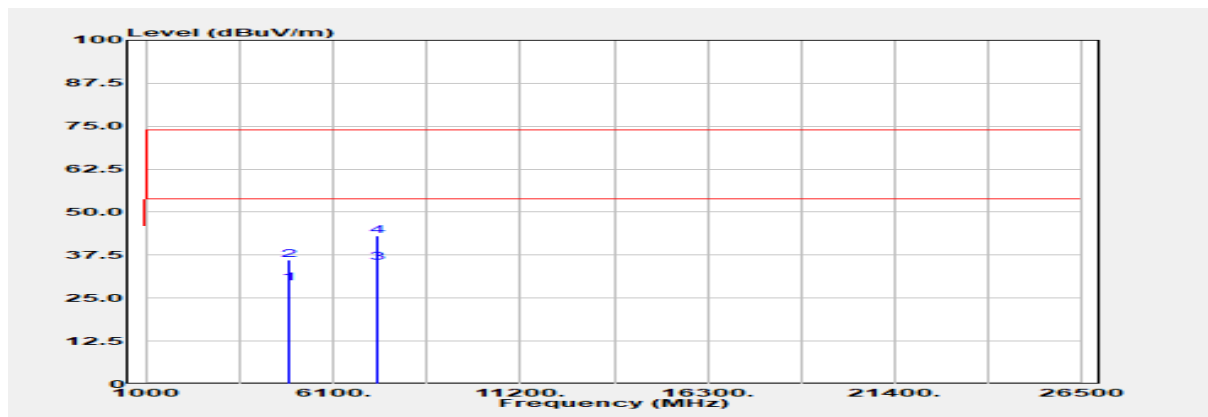
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	32.21	-3.00	29.21	54.00	-24.79
4874.000	Peak	39.16	-3.00	36.16	74.00	-37.84
7311.000	Average	31.45	3.86	35.31	54.00	-18.69
7311.000	Peak	39.19	3.86	43.05	74.00	-30.95

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :E2 Plane

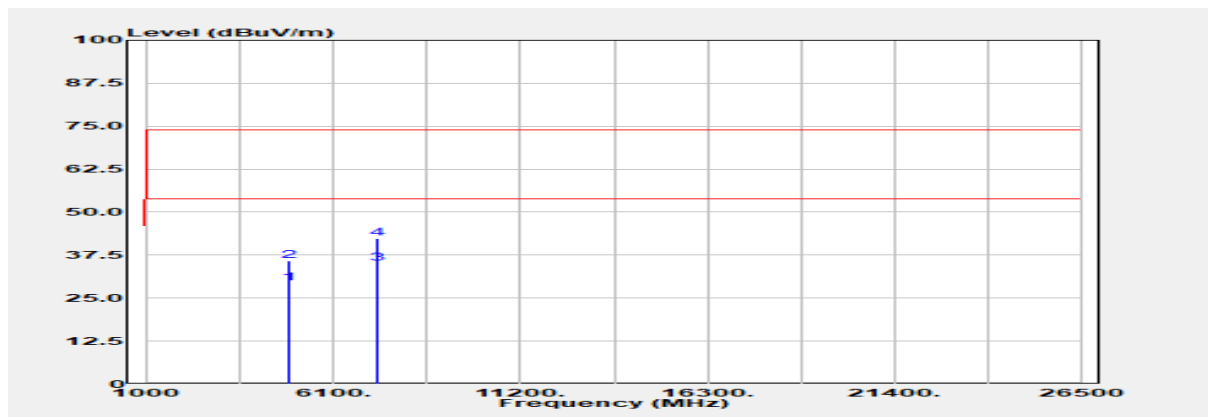
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	32.42	-3.00	29.42	54.00	-24.58
4874.000	Peak	38.87	-3.00	35.87	74.00	-38.13
7311.000	Average	31.17	3.86	35.03	54.00	-18.97
7311.000	Peak	38.58	3.86	42.44	74.00	-31.56

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Tx CH High

EUT Pol :E2 Plane

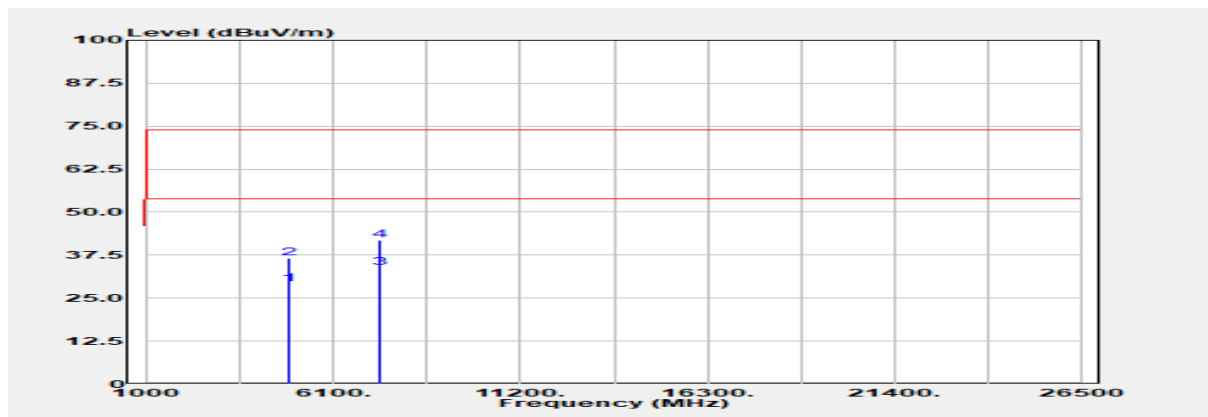
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.40	-3.21	29.19	54.00	-24.81
4924.000	Peak	39.70	-3.21	36.49	74.00	-37.51
7386.000	Average	30.78	3.04	33.82	54.00	-20.18
7386.000	Peak	38.83	3.04	41.87	74.00	-32.13

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Tx CH High

EUT Pol :E2 Plane

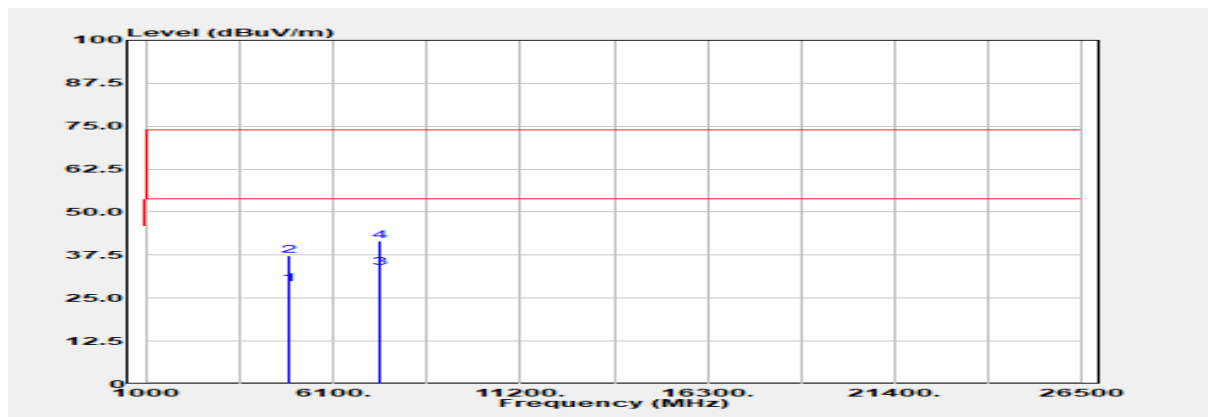
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	32.22	-3.21	29.01	54.00	-24.99
4924.000	Peak	40.55	-3.21	37.35	74.00	-36.65
7386.000	Average	30.84	3.04	33.88	54.00	-20.12
7386.000	Peak	38.62	3.04	41.66	74.00	-32.34

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

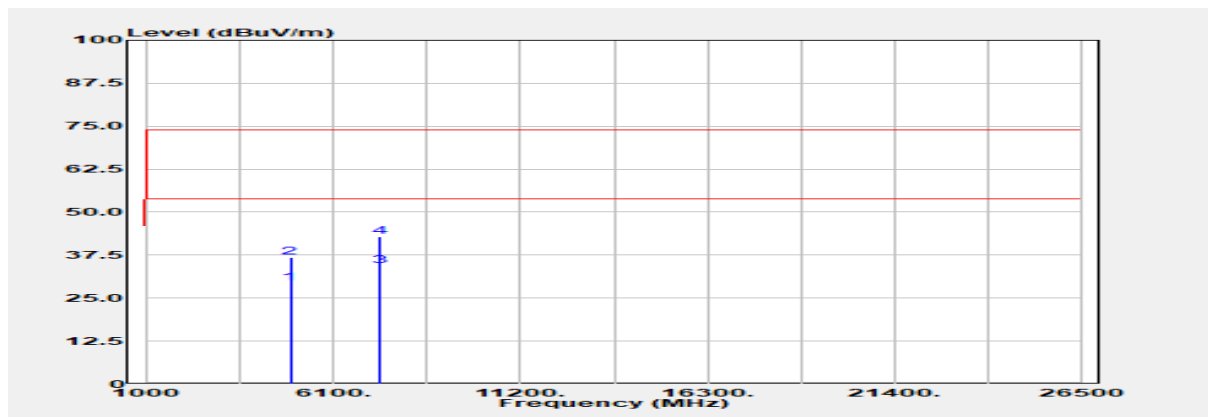
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4934.000	Average	32.42	-3.06	29.36	54.00	-24.64
4934.000	Peak	39.87	-3.06	36.81	74.00	-37.19
7401.000	Average	30.70	3.53	34.23	54.00	-19.77
7401.000	Peak	39.40	3.53	42.93	74.00	-31.07

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2467 MHz

Test Mode :Tx CH 12

EUT Pol :E2 Plane

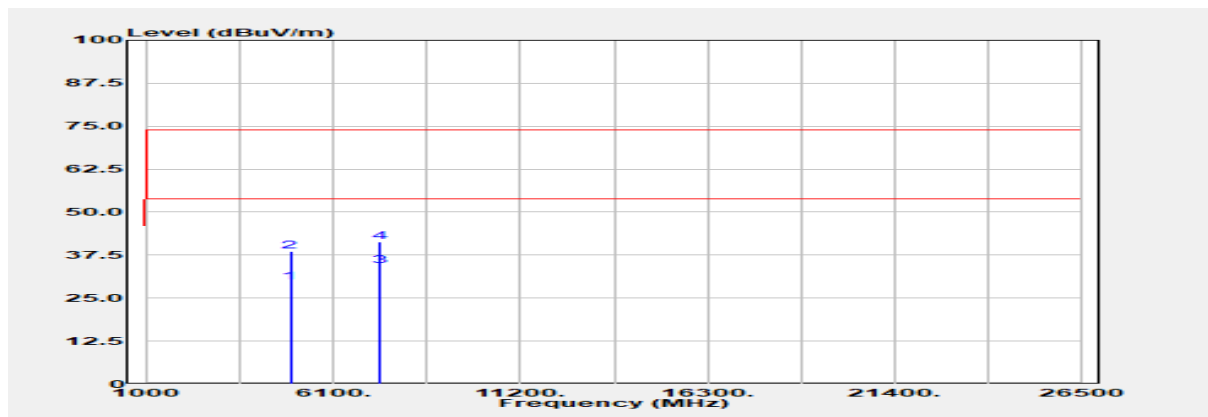
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Average	32.74	-3.06	29.68	54.00	-24.32
4934.000	Peak	41.72	-3.06	38.66	74.00	-35.34
7401.000	Average	30.70	3.53	34.23	54.00	-19.77
7401.000	Peak	37.94	3.53	41.47	74.00	-32.53

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

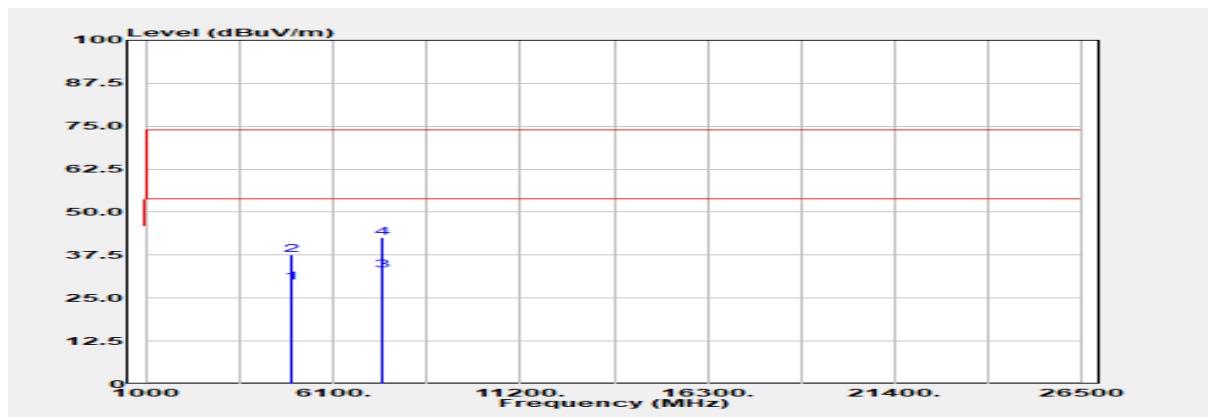
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Horizontal

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Average	32.13	-2.58	29.55	54.00	-24.45
4944.000	Peak	40.28	-2.58	37.71	74.00	-36.29
7416.000	Average	30.44	2.75	33.19	54.00	-20.81
7416.000	Peak	39.76	2.75	42.51	74.00	-31.49

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Report Number :E2/2021/30065

Operation Mode :802.11n20

Test Frequency :2472 MHz

Test Mode :Tx CH 13

EUT Pol :E2 Plane

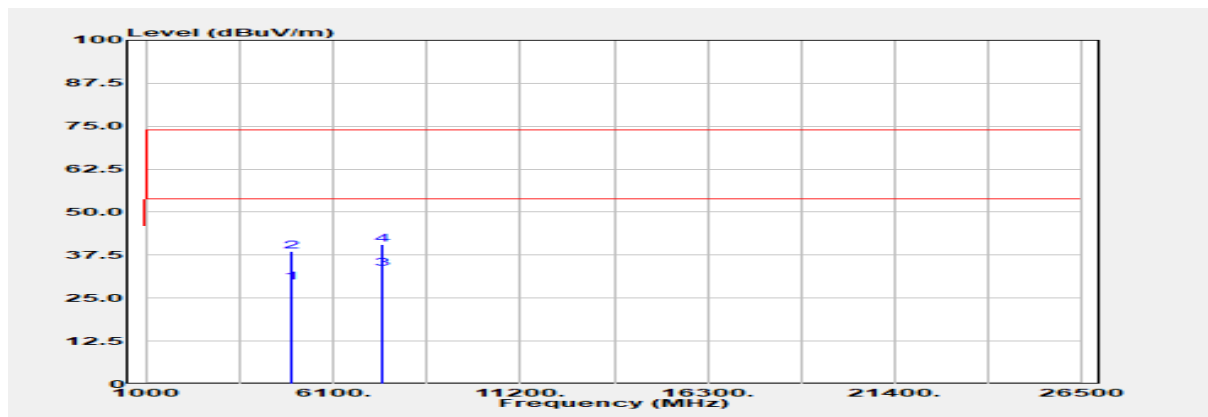
Test Site :966 Chamber D

Test Date :2021-04-28

Temp./Humi. :22.3/69

Antenna Pol. :Vertical

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4944.000	Average	32.09	-2.58	29.51	54.00	-24.49
4944.000	Peak	41.09	-2.58	38.51	74.00	-35.49
7416.000	Average	30.77	2.75	33.52	54.00	-20.48
7416.000	Peak	37.88	2.75	40.63	74.00	-33.37

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

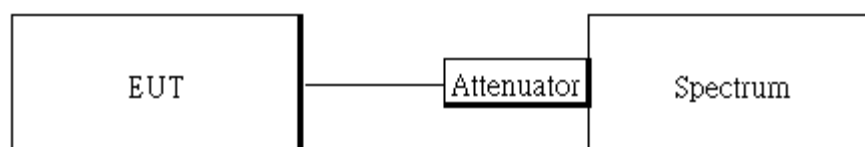
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF15	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF155	11/19/2020	11/18/2021

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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12.5 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.55	-7.55	8.00	PASS
2437	-9.25	-9.25	8.00	PASS
2462	-8.95	-8.95	8.00	PASS
2467	-8.59	-8.59	8.00	PASS
2472	-10	-10.00	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.64	-9.64	8.00	PASS
2437	-9.88	-9.88	8.00	PASS
2462	-10.08	-10.08	8.00	PASS
2467	-9.72	-9.72	8.00	PASS
2472	-10.63	-10.63	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.27	-10.27	8.00	PASS
2437	-10.21	-10.21	8.00	PASS
2462	-10.1	-10.10	8.00	PASS
2467	-10.86	-10.86	8.00	PASS
2472	-9.9	-9.90	8.00	PASS

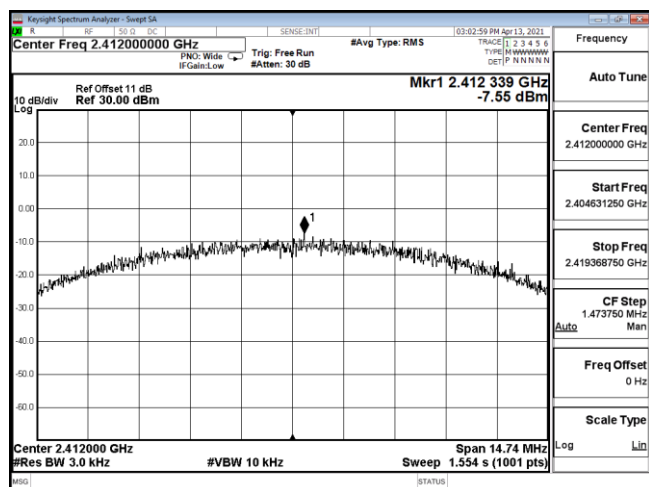
*Refer to next page for plots

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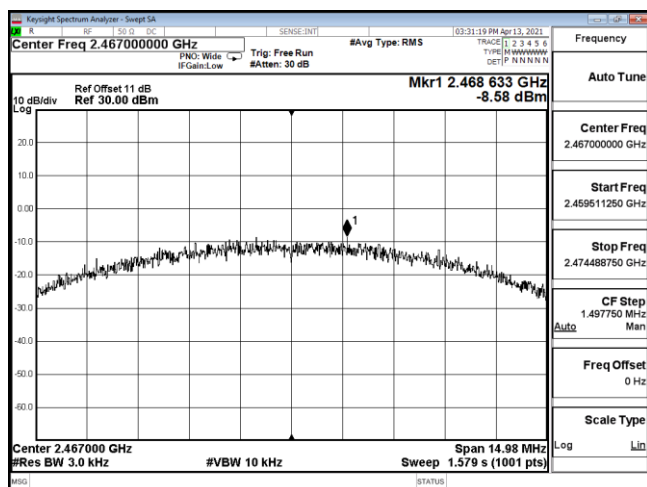
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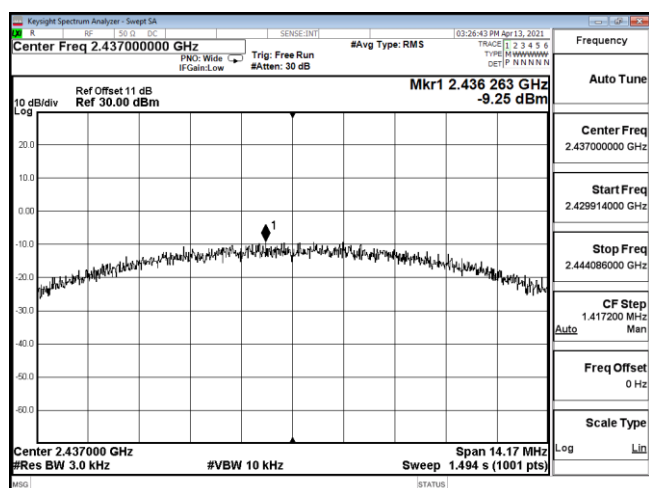
Power Density_802.11b_20MHz_Chain0_2412MHz



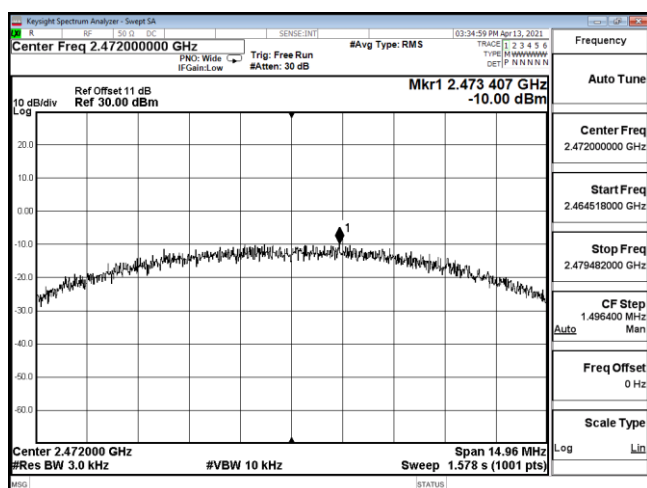
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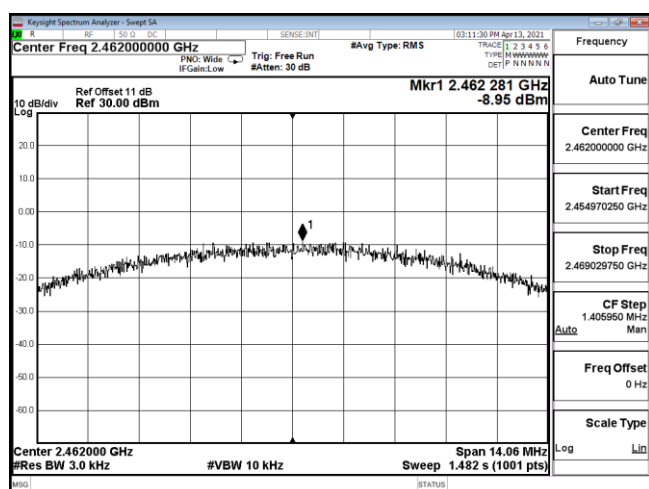
Power Density_802.11b_20MHz_Chain0_2437MHz



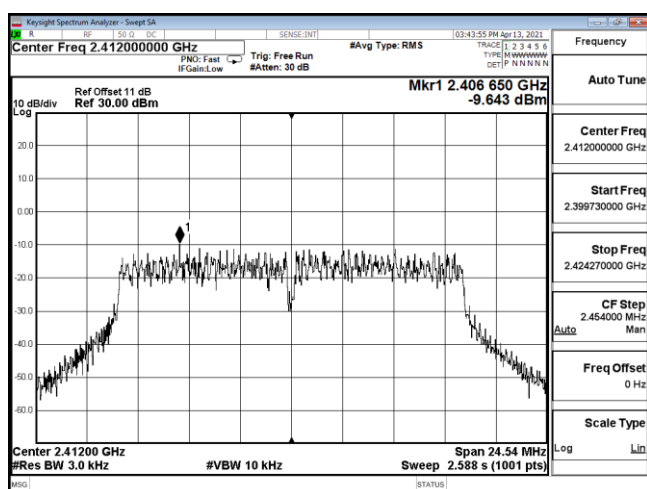
Power Density_802.11b_20MHz_Chain0_2472MHz



Power Density_802.11b_20MHz_Chain0_2462MHz



Power Density_802.11g_20MHz_Chain0_2412MHz

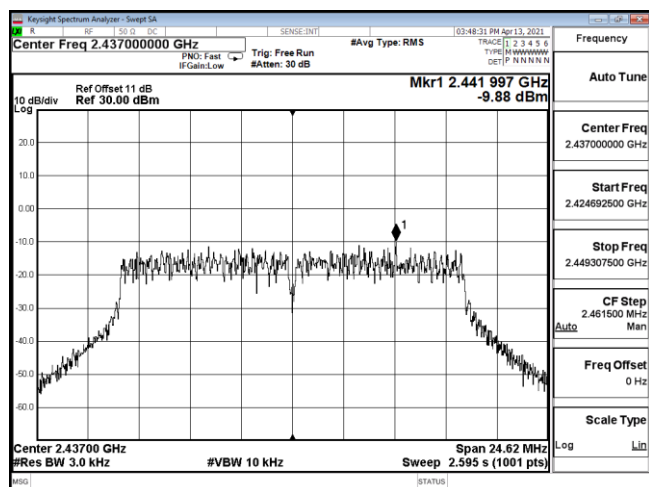


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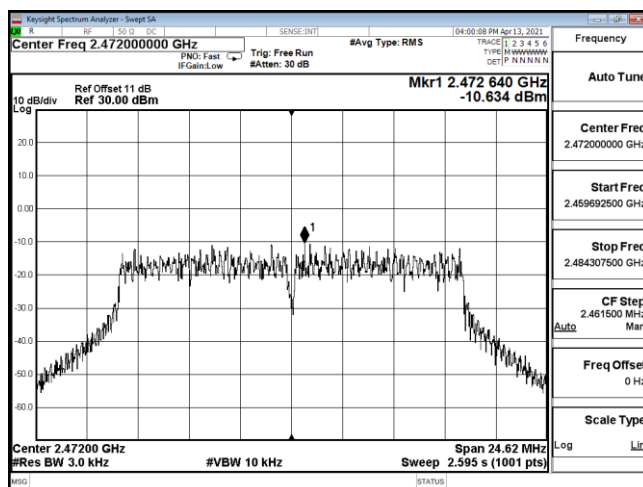
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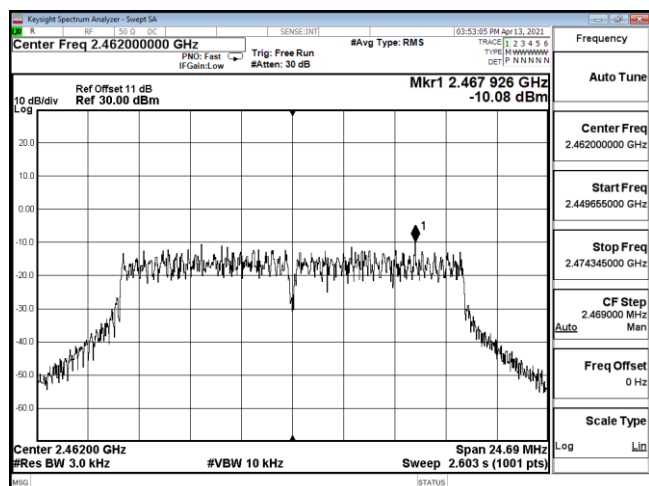
Power Density_802.11g_20MHz_Chain0_2437MHz



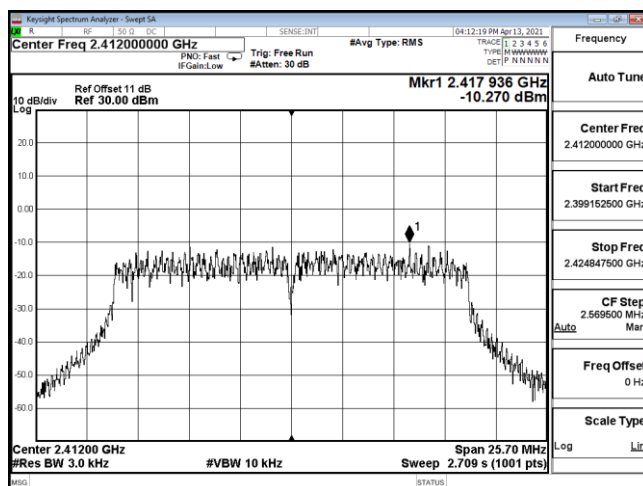
Power Density_802.11g_20MHz_Chain0_2472MHz



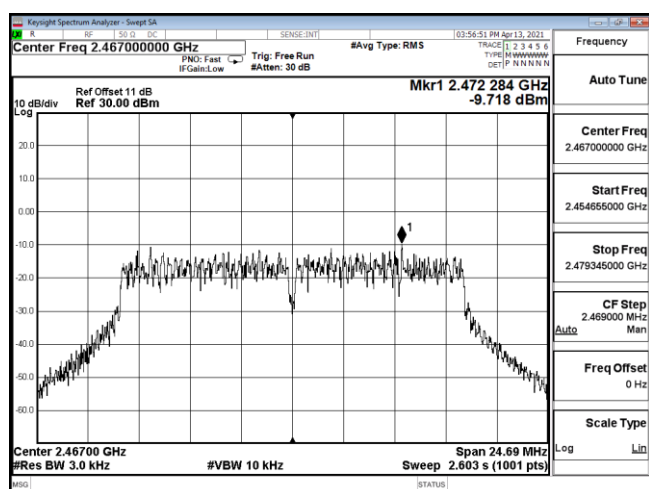
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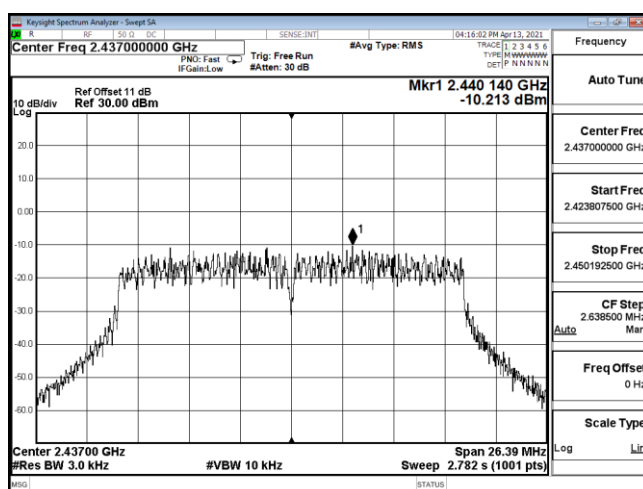
Power Density_802.11n_20MHz_Chain0_2412MHz



Power Density_802.11g_20MHz_Chain0_2467MHz



Power Density_802.11n_20MHz_Chain0_2437MHz



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