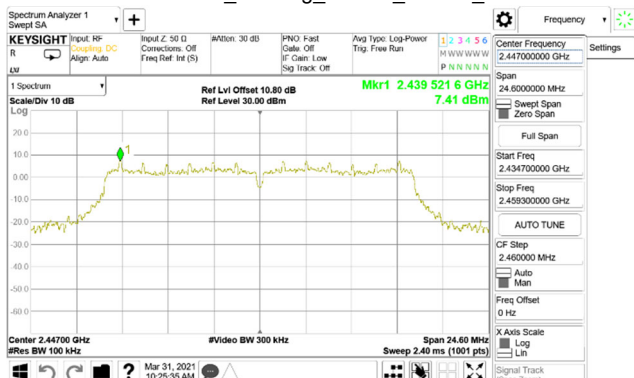
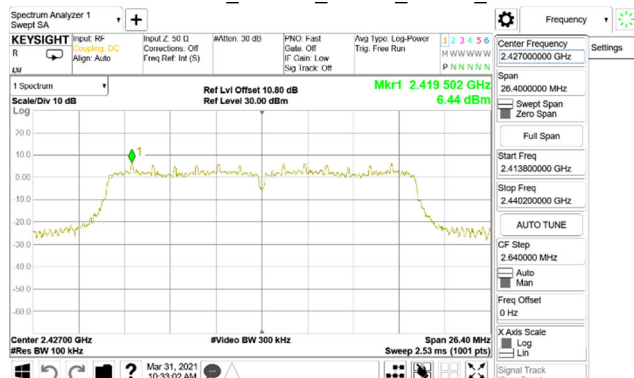


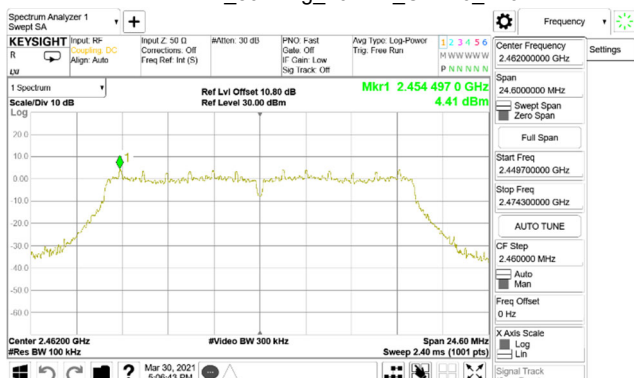
Reference Level_802.11g_20MHz_Chain0_2447MHz



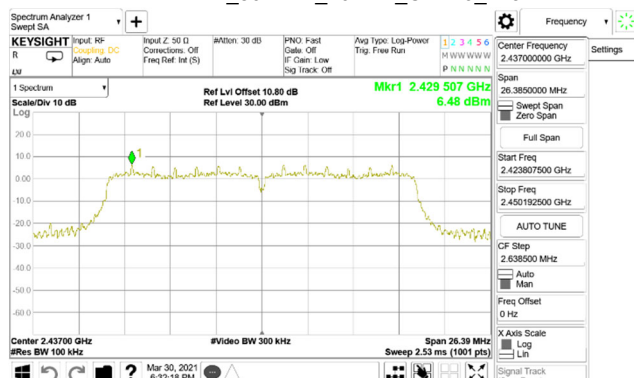
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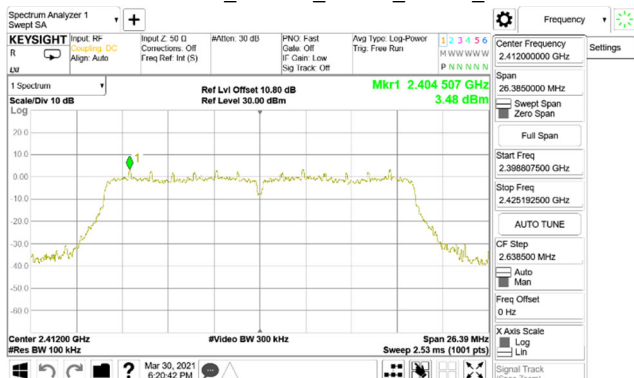
Reference Level_802.11g_20MHz_Chain0_2462MHz



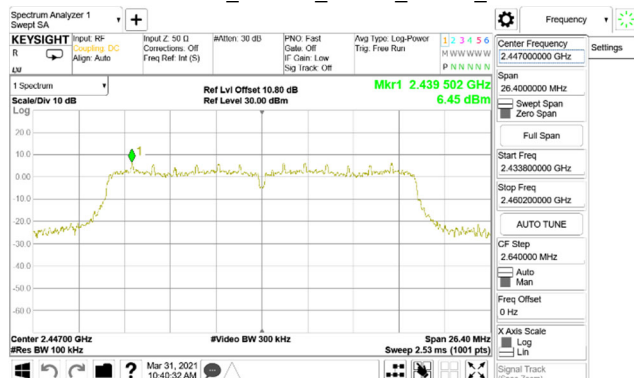
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Reference Level_802.11n_20MHz_Chain0_2412MHz



Reference Level_802.11n_20MHz_Chain0_2447MHz

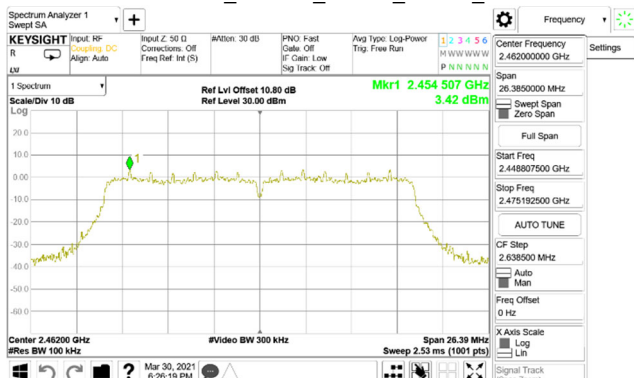


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Reference Level_802.11n_20MHz_Chain0_2462MHz

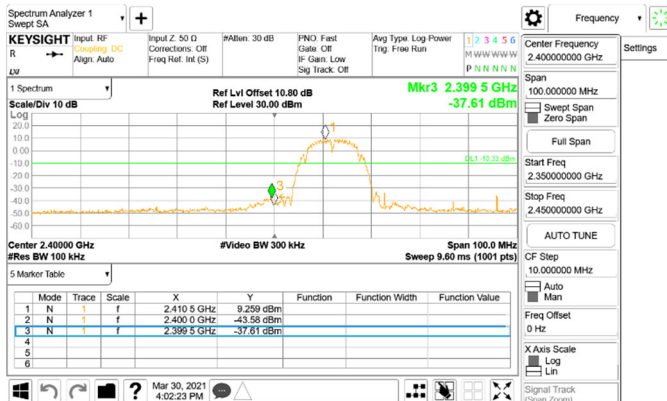


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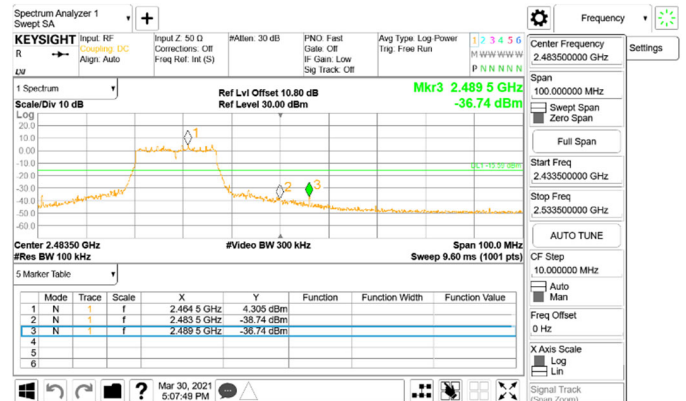
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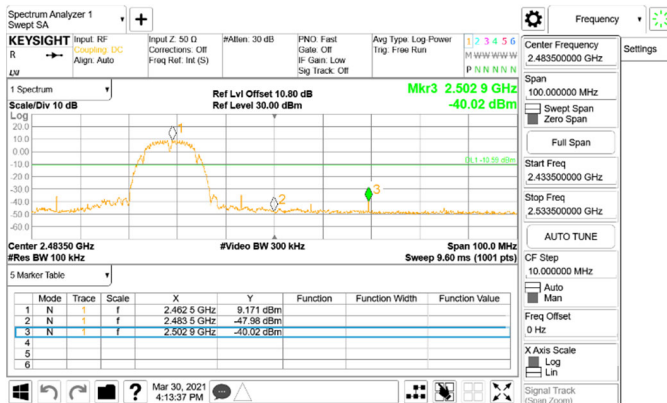
Band Edge_802.11b_20MHz_Chain0_2412MHz



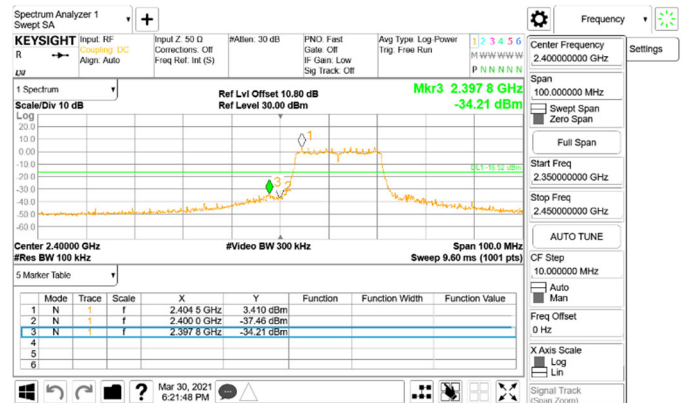
Band Edge_802.11g_20MHz_Chain0_2462MHz



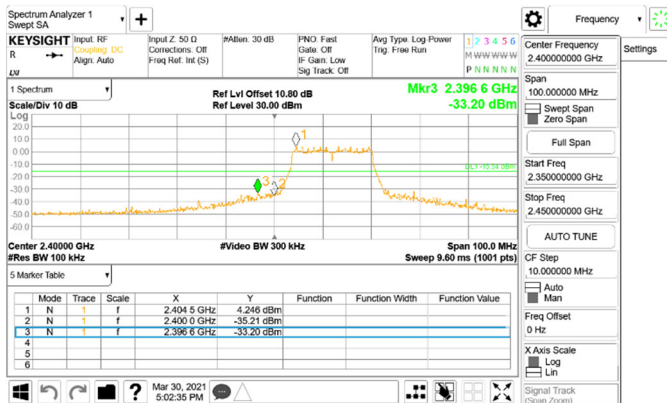
Band Edge_802.11b_20MHz_Chain0_2462MHz



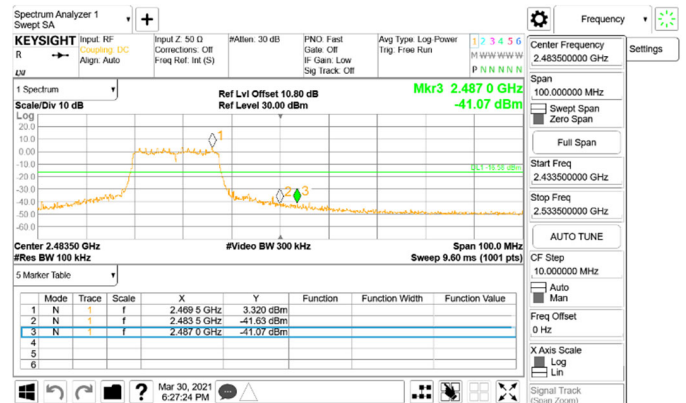
Band Edge_802.11n_20MHz_Chain0_2412MHz



Band Edge_802.11g_20MHz_Chain0_2412MHz



Band Edge_802.11n_20MHz_Chain0_2462MHz

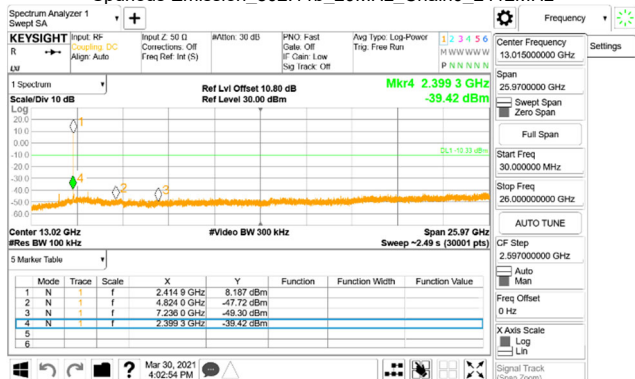


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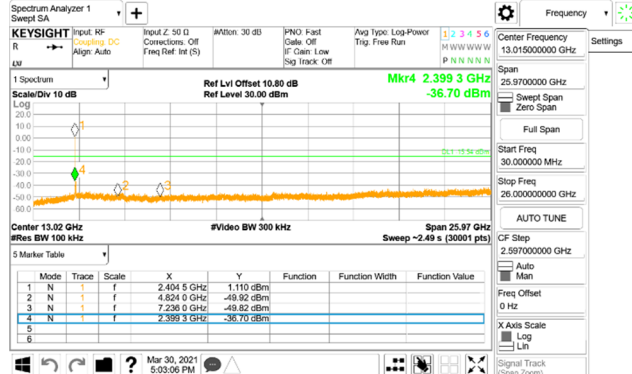
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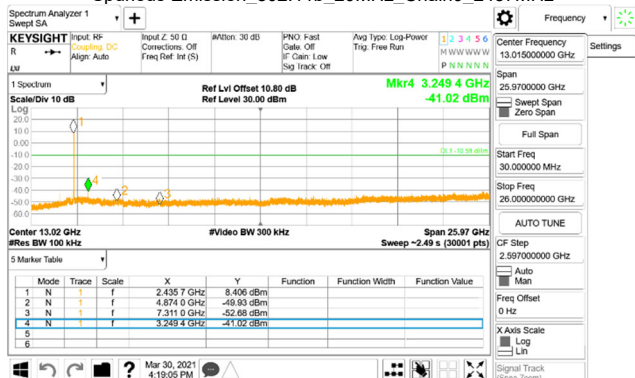
Spurious Emission_802.11b_20MHz_Chain0_2412MHz



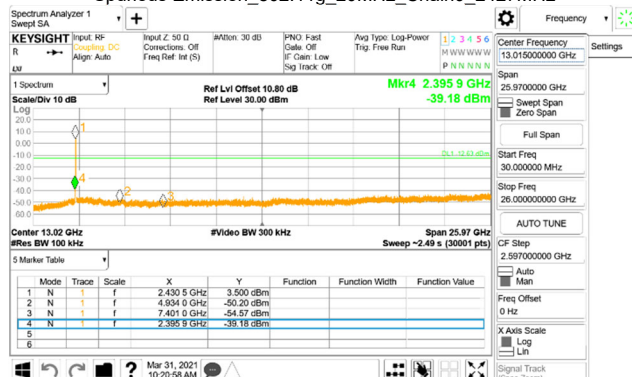
Spurious Emission_802.11a_20MHz_Chain0_2412MHz



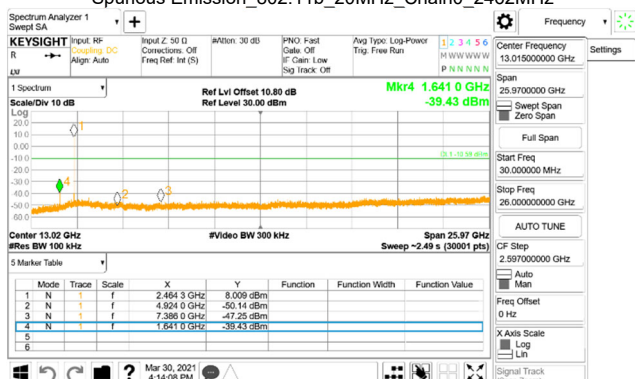
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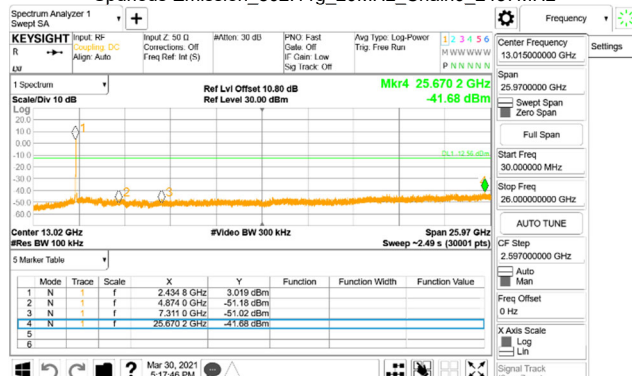
Spurious Emission_802.11g_20MHz_Chain0_2427MHz



Spurious Emission_802.11b_20MHz_Chain0_2462MHz



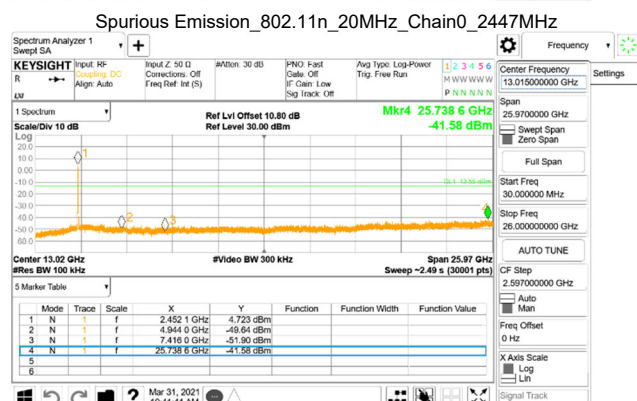
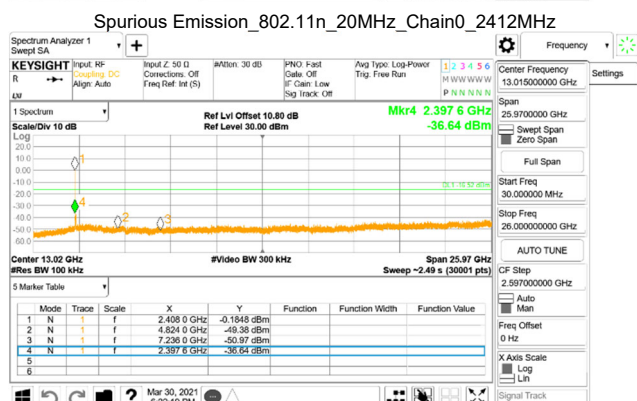
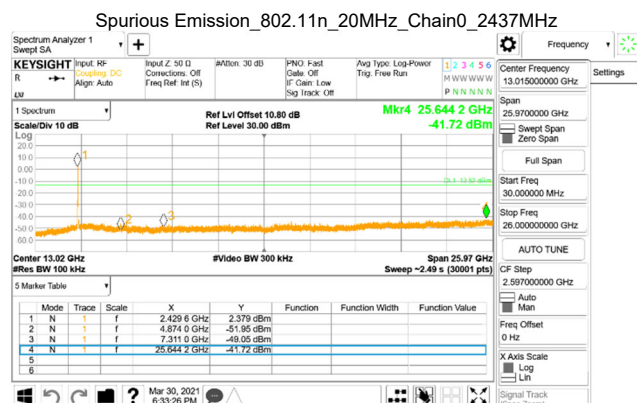
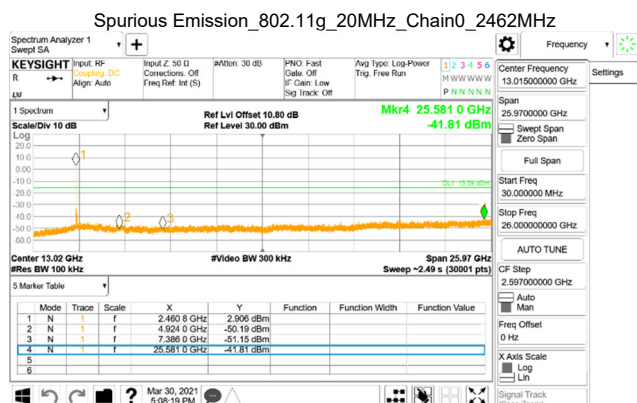
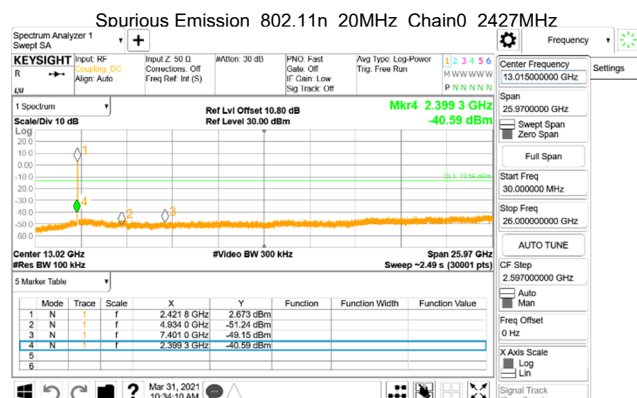
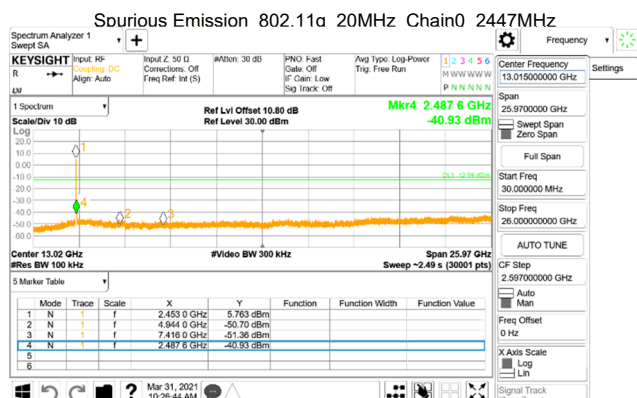
Spurious Emission_802.11g_20MHz_Chain0_2437MHz



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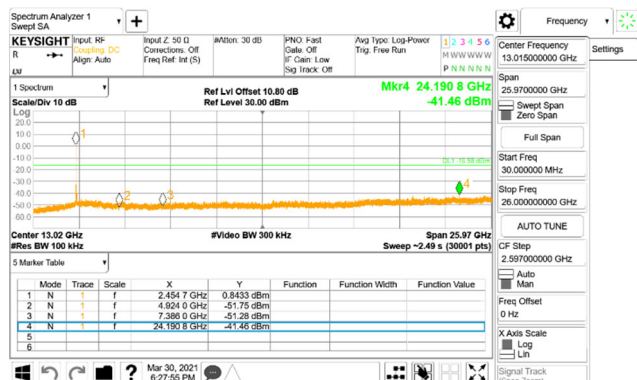


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Spurious Emission_802.11n_20MHz_Chain0_2462MHz



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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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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 C					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGR EN	6502	148045	10/19/2020	10/18/2021
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS- 10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Notebook	Lenovo	L440	P0000367	N/A	N/A
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021

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

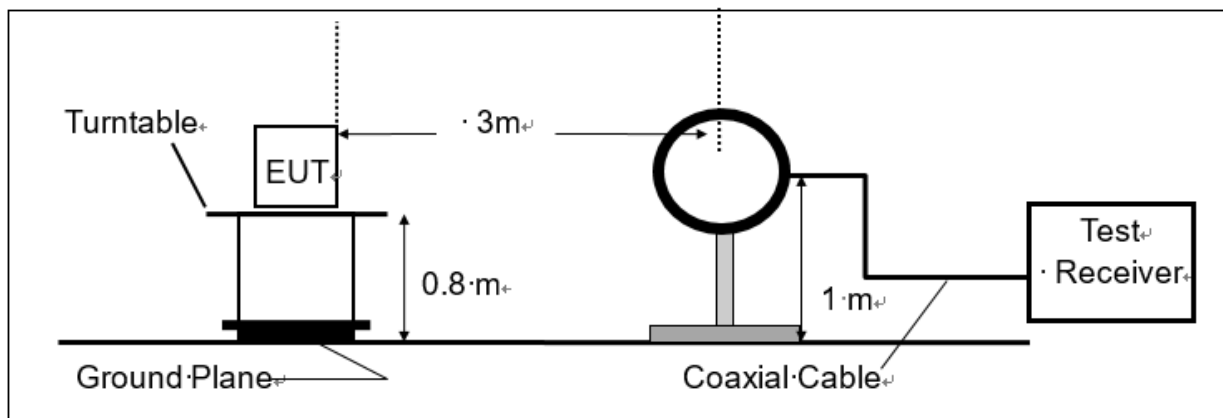
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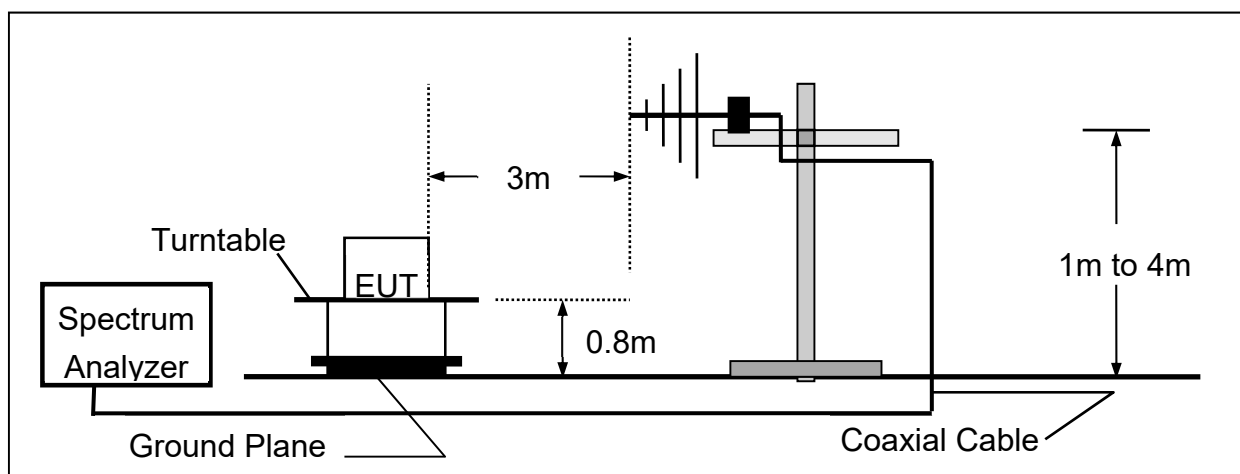
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11.3 Test SET-UP

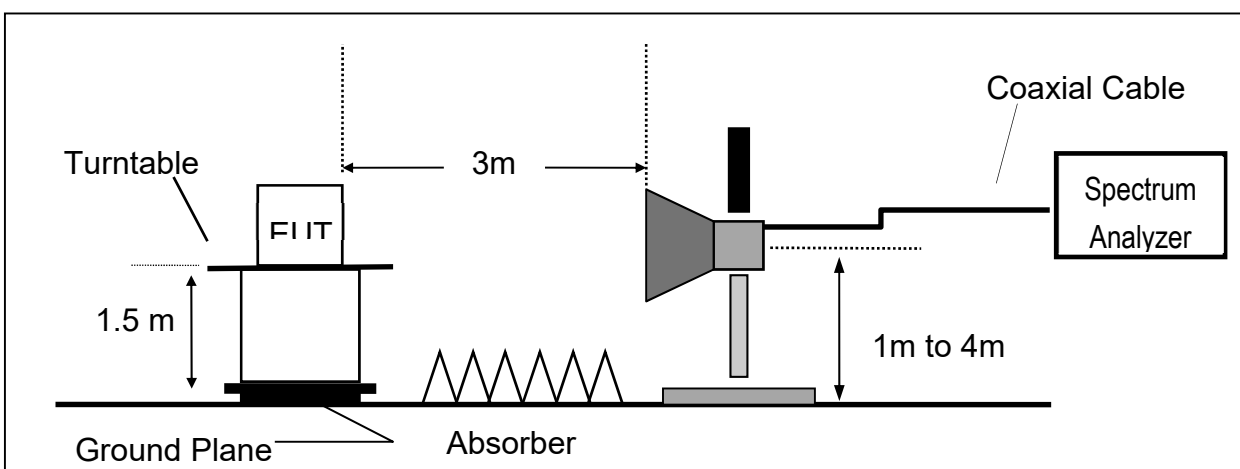
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 ≥ 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 $20 \cdot \log(uV/m)$

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) & RSS-GEN §6.13.2 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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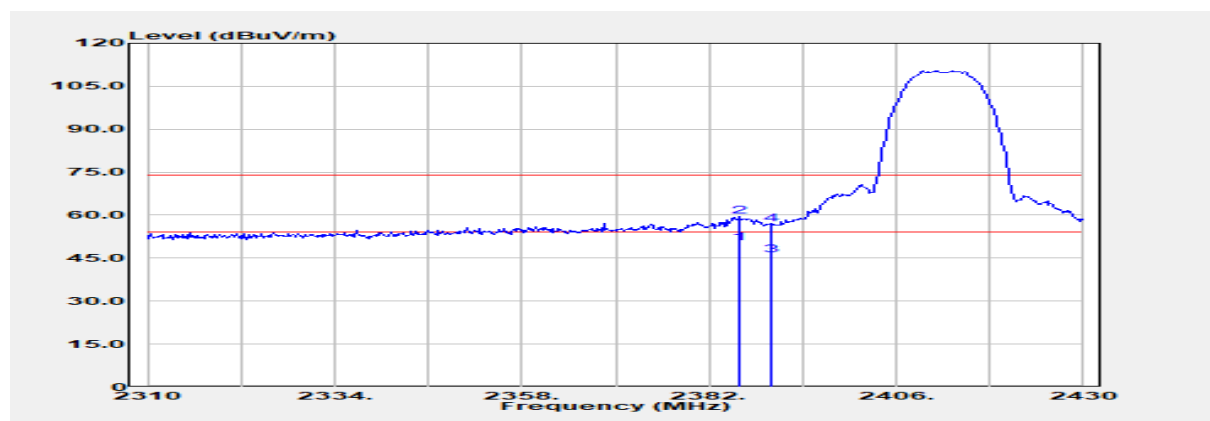
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11.7.1 Radiated Band Edge Measurement Result

11.7.2 Monopole Ant.

Report Number :E2/2021/30018
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :BE CH 01
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :22.7/57
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.961	Average	45.15	5.00	50.15	54.00	-3.85
2385.961	Peak	54.41	5.00	59.41	74.00	-14.59
2390.000	Average	40.94	5.18	46.12	54.00	-7.88
2390.000	Peak	51.74	5.18	56.92	74.00	-17.08

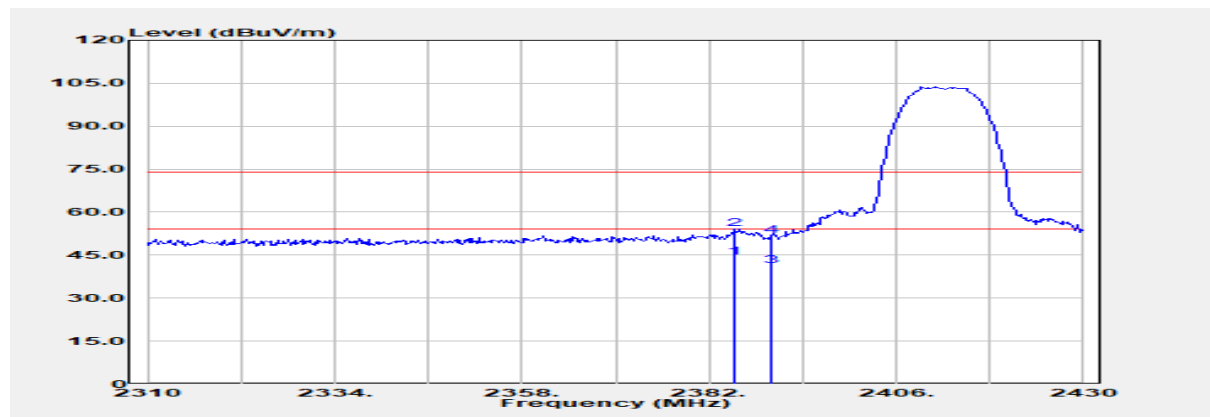
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.7/57
 Antenna Pol. :Horizontal
 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
2385.385	Average	39.27	4.98	44.25	54.00	-9.75
2385.385	Peak	49.23	4.98	54.21	74.00	-19.79
2390.000	Average	35.92	5.18	41.10	54.00	-12.90
2390.000	Peak	46.49	5.18	51.68	74.00	-22.32

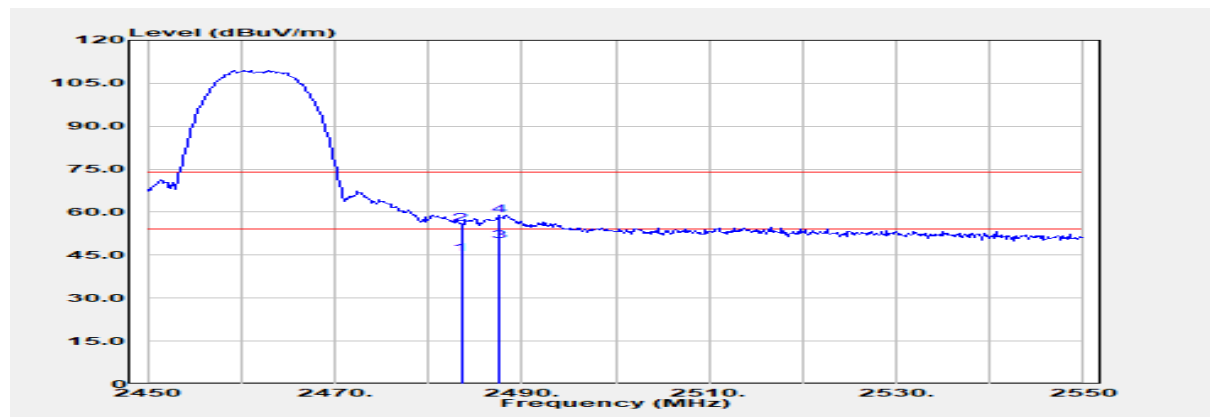
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.7/57
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	41.35	4.04	45.39	54.00	-8.61
2483.500	Peak	51.90	4.04	55.94	74.00	-18.06
2487.500	Average	45.78	4.00	49.78	54.00	-4.22
2487.500	Peak	54.96	4.00	58.95	74.00	-15.05

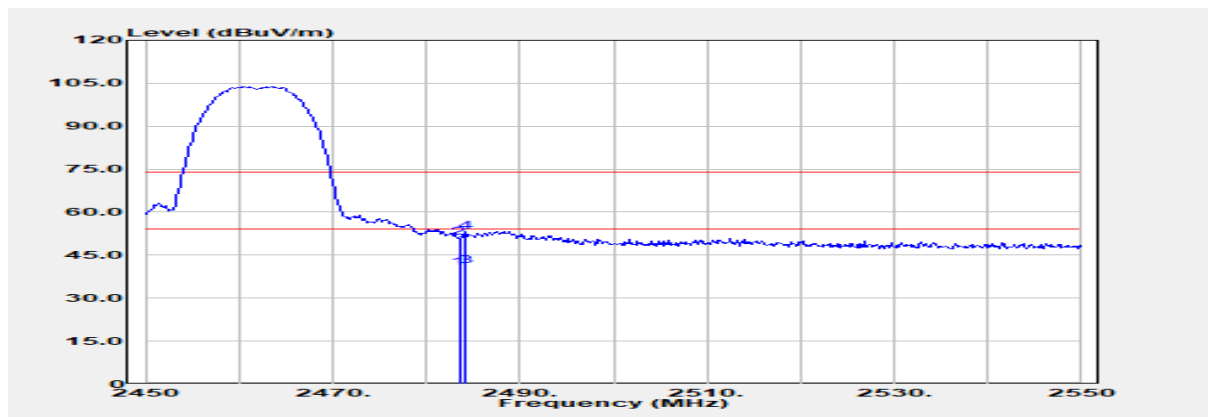
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.7/57
 Antenna Pol. :Horizontal
 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
2483.500	Average	36.54	4.04	40.58	54.00	-13.42
2483.500	Peak	47.19	4.04	51.23	74.00	-22.77
2484.135	Average	37.15	4.03	41.18	54.00	-12.82
2484.135	Peak	49.33	4.03	53.36	74.00	-20.64

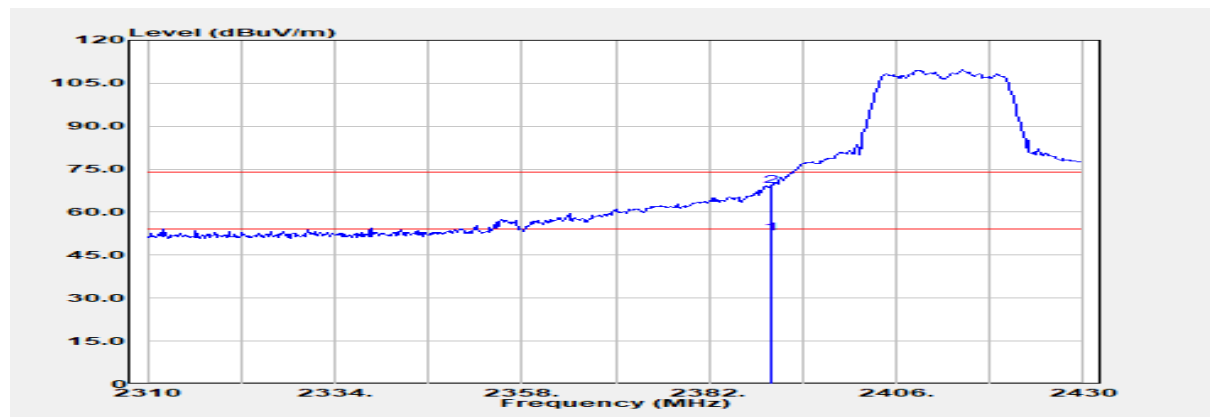
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 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
2390.000	Average	47.57	5.18	52.75	54.00	-1.25
2390.000	Peak	64.10	5.18	69.28	74.00	-4.72

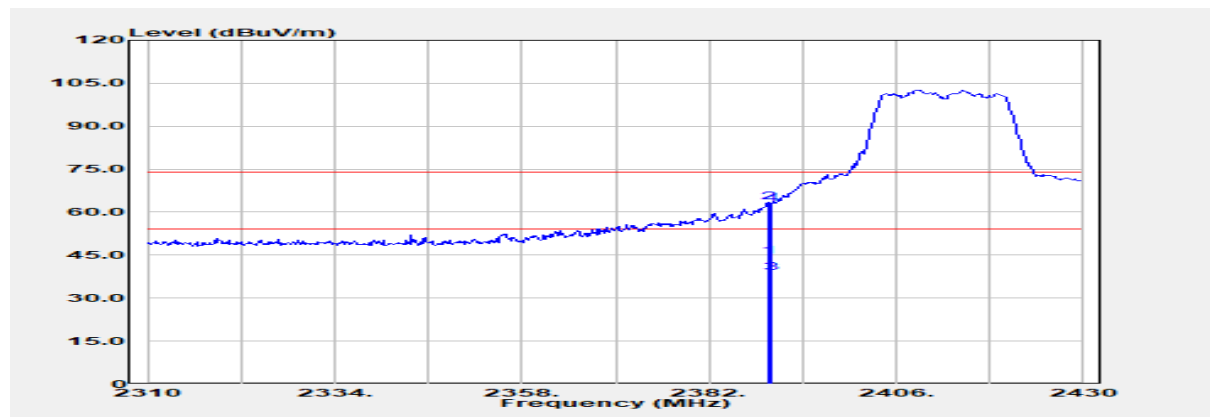
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Report Number :E2/2021/30018
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :BE CH 01
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :22.6/51
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.615	Average	39.32	5.16	44.48	54.00	-9.52
2389.615	Peak	58.21	5.16	63.38	74.00	-10.62
2390.000	Average	33.64	5.18	38.82	54.00	-15.18
2390.000	Peak	57.77	5.18	62.95	74.00	-11.05

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Report Number :E2/2021/30018

Test Site :SAC C

Operation Mode :802.11g

Test Date :2021-05-04

Test Frequency :2422 MHz

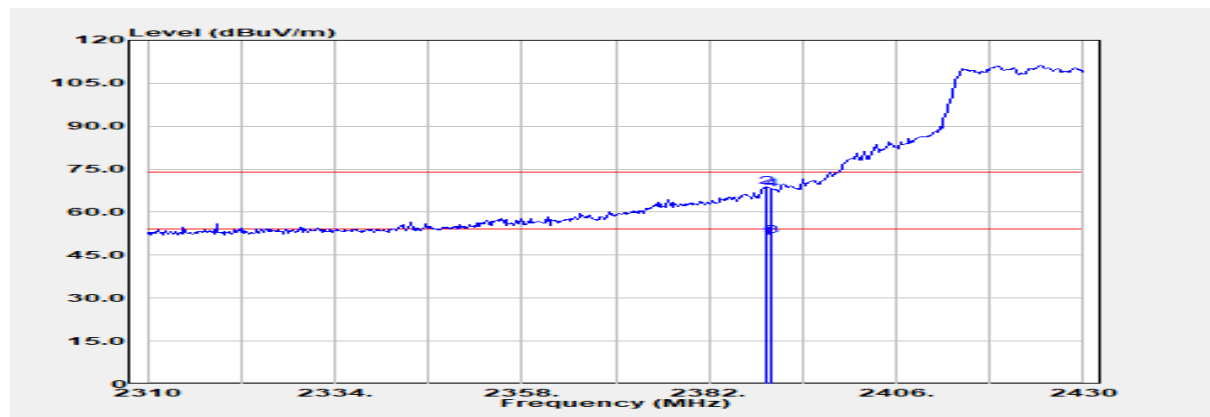
Temp./Humi. :22.6/51

Test Mode :BE CH 03

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.231	Average	46.08	5.15	51.23	54.00	-2.77
2389.231	Peak	63.86	5.15	69.01	74.00	-4.99
2390.000	Average	46.51	5.18	51.69	54.00	-2.31
2390.000	Peak	62.66	5.18	67.84	74.00	-6.16

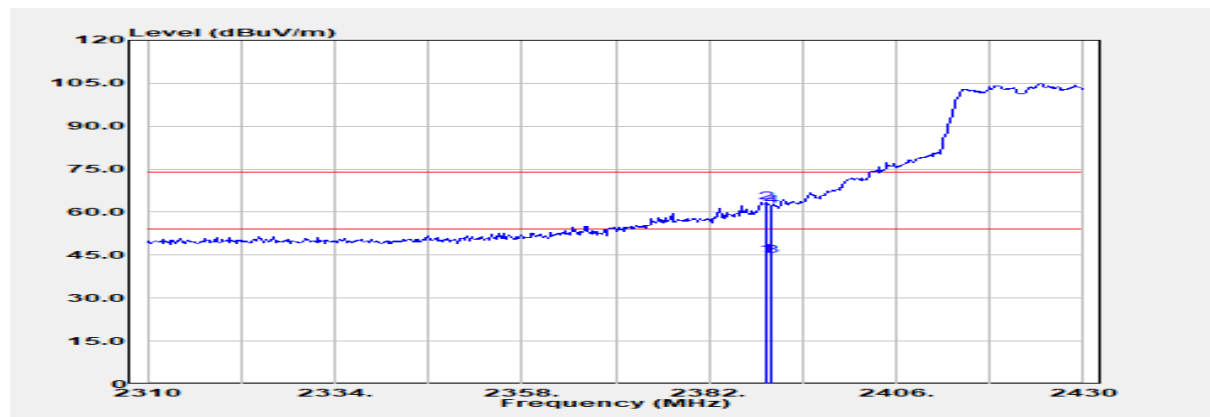
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Horizontal
 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
2389.423	Average	39.95	5.15	45.10	54.00	-8.90
2389.423	Peak	58.45	5.15	63.61	74.00	-10.39
2390.000	Average	39.78	5.18	44.96	54.00	-9.04
2390.000	Peak	57.00	5.18	62.18	74.00	-11.82

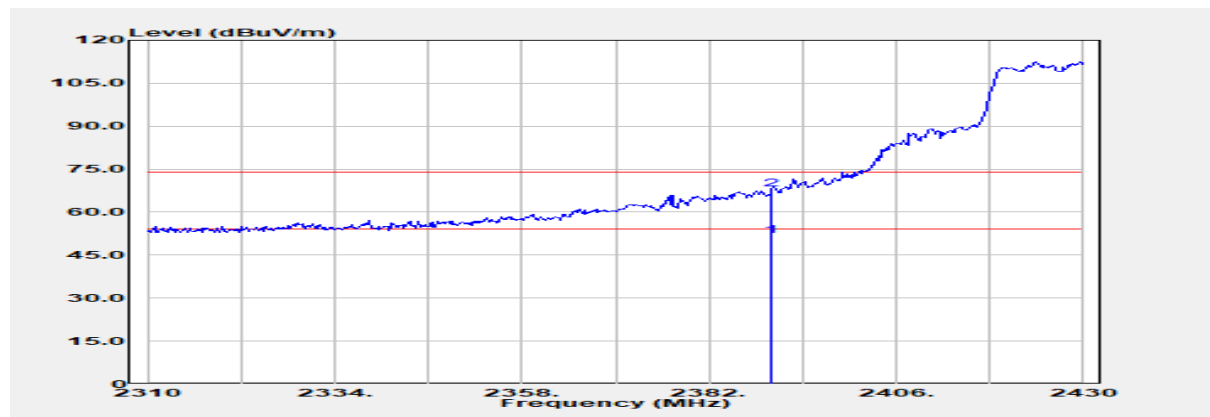
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	46.58	5.18	51.76	54.00	-2.24
2390.000	Peak	62.83	5.18	68.01	74.00	-5.99

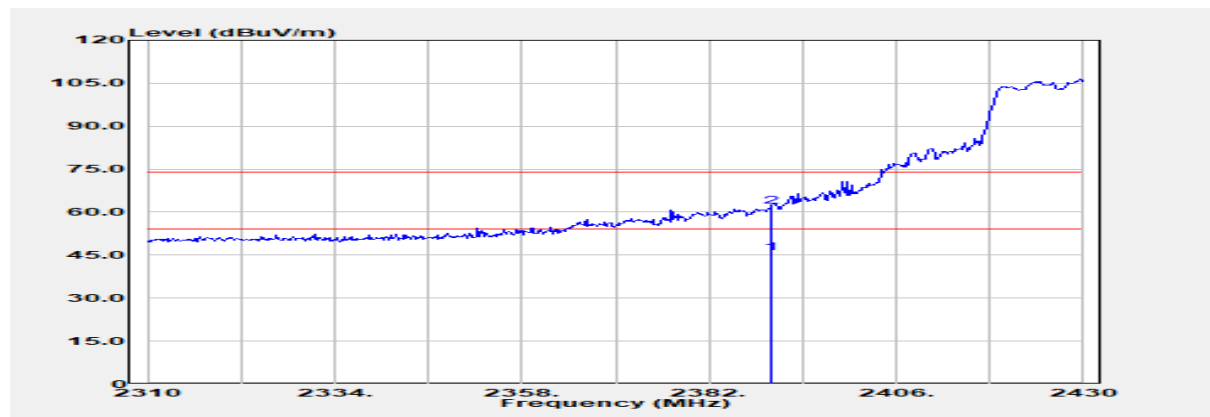
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Horizontal
 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
2390.000	Average	40.63	5.18	45.81	54.00	-8.19
2390.000	Peak	56.87	5.18	62.05	74.00	-11.95

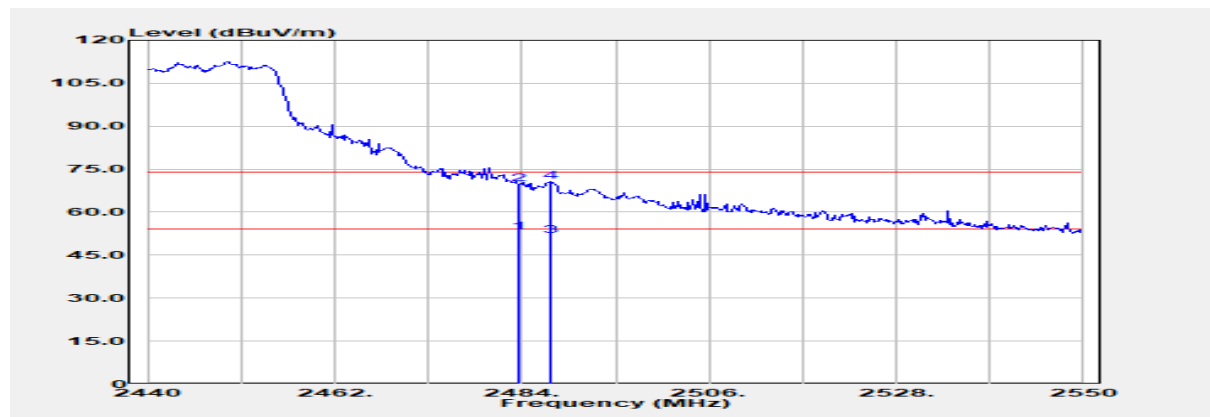
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	48.92	4.04	52.96	54.00	-1.04
2483.500	Peak	65.63	4.04	69.66	74.00	-4.34
2487.420	Average	47.86	4.00	51.86	54.00	-2.14
2487.420	Peak	66.61	4.00	70.61	74.00	-3.39

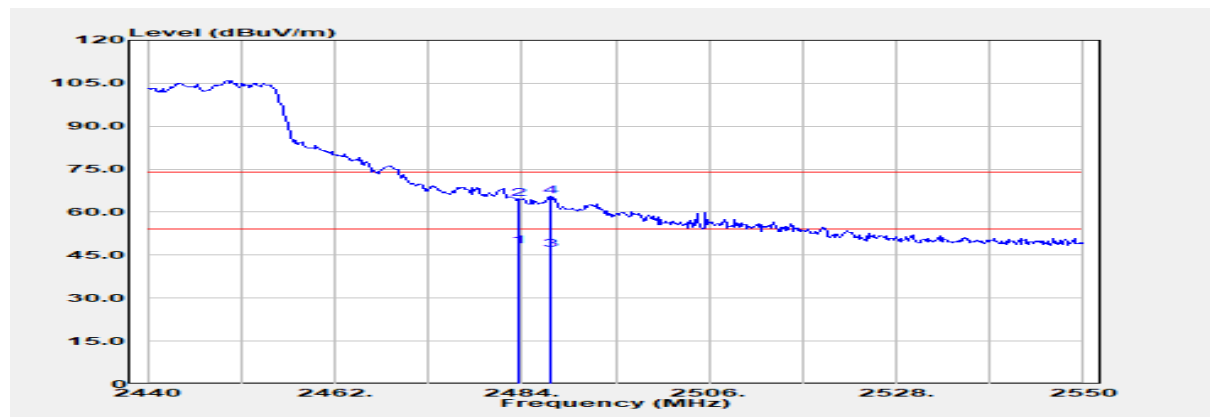
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Horizontal
 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
2483.500	Average	44.04	4.04	48.08	54.00	-5.92
2483.500	Peak	60.76	4.04	64.80	74.00	-9.20
2487.244	Average	42.87	4.00	46.87	54.00	-7.13
2487.244	Peak	61.61	4.00	65.61	74.00	-8.39

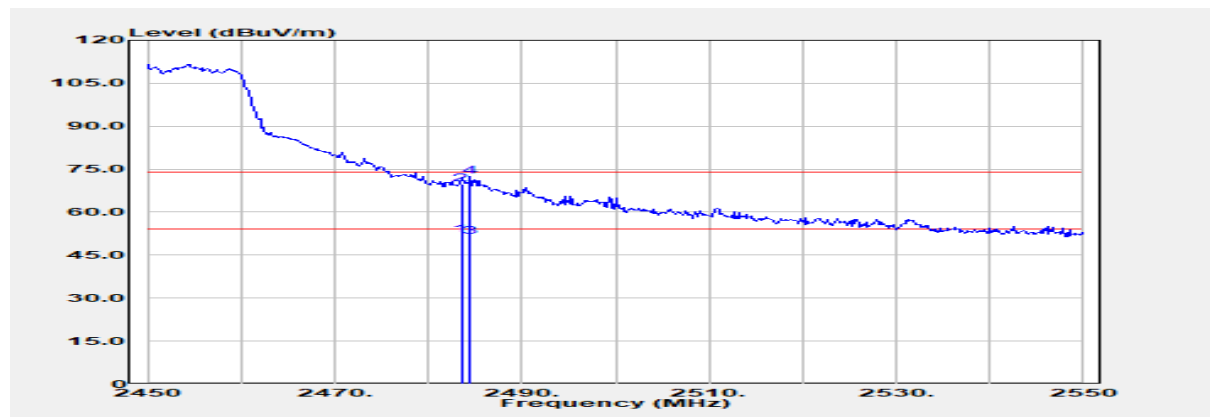
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 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
2483.500	Average	47.99	4.04	52.03	54.00	-1.97
2483.500	Peak	65.88	4.04	69.91	74.00	-4.09
2484.455	Average	47.54	4.03	51.57	54.00	-2.43
2484.455	Peak	68.49	4.03	72.52	74.00	-1.48

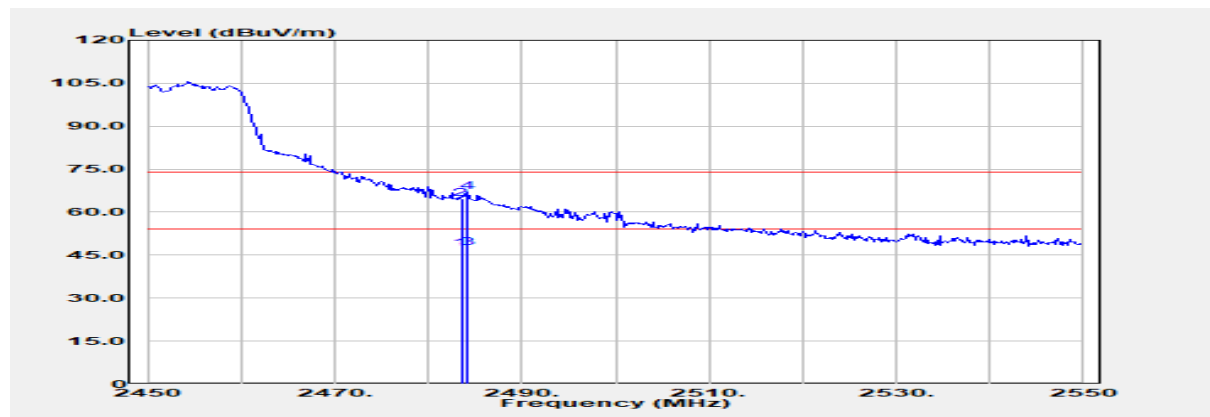
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Horizontal
 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
2483.500	Average	43.17	4.04	47.21	54.00	-6.79
2483.500	Peak	60.65	4.04	64.69	74.00	-9.31
2484.135	Average	43.63	4.03	47.66	54.00	-6.34
2484.135	Peak	63.06	4.03	67.09	74.00	-6.91

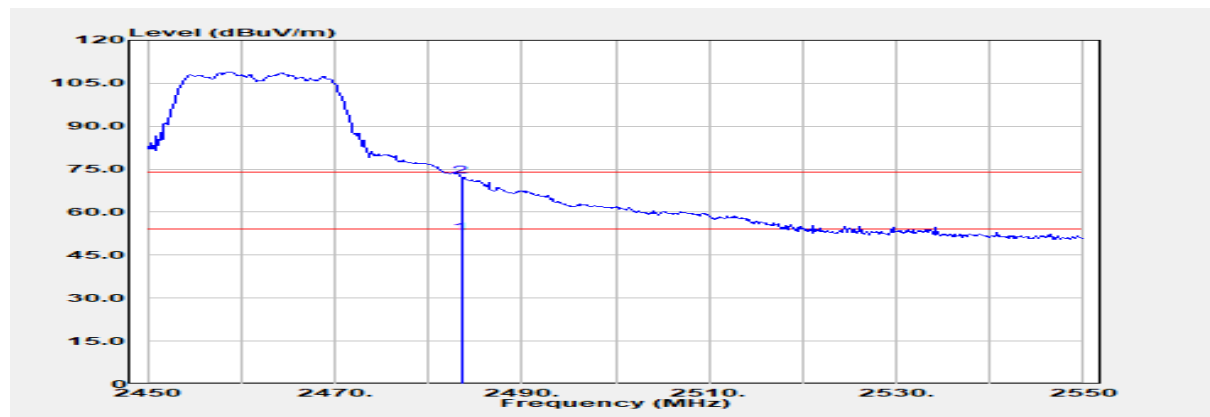
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Vertical
 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
2483.500	Average	48.46	4.04	52.50	54.00	-1.50
2483.500	Peak	68.51	4.04	72.54	74.00	-1.46

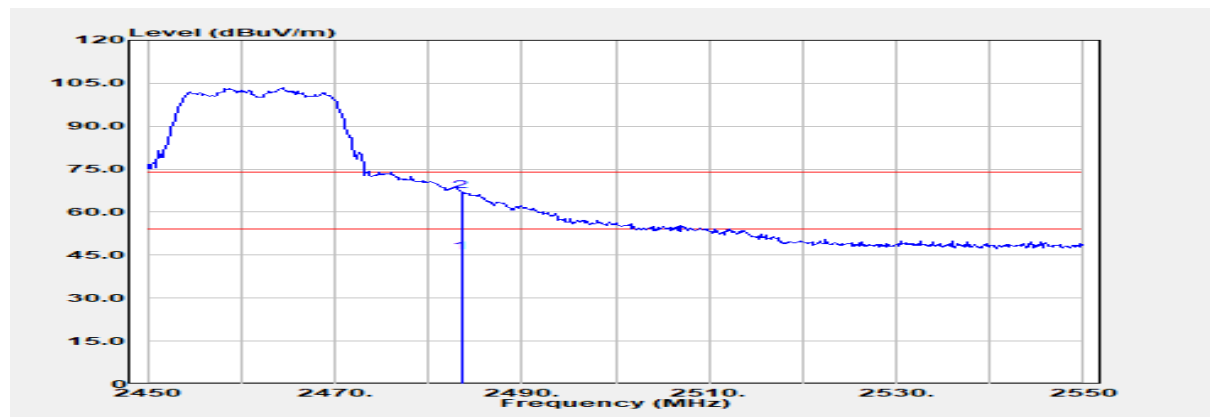
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/51
 Antenna Pol. :Horizontal
 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
2483.500	Average	42.04	4.04	46.08	54.00	-7.92
2483.500	Peak	63.37	4.04	67.41	74.00	-6.59

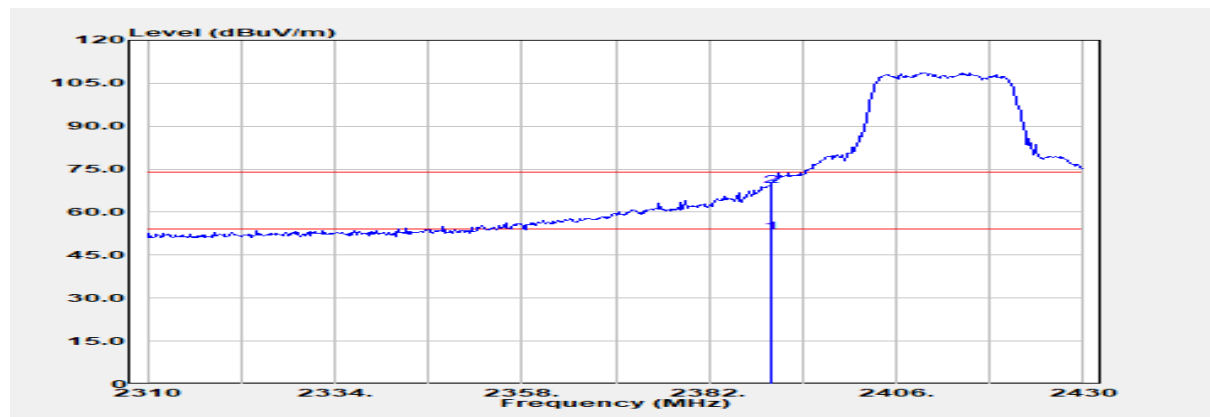
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.6/52
 Antenna Pol. :Vertical
 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
2390.000	Average	47.78	5.18	52.96	54.00	-1.04
2390.000	Peak	64.11	5.18	69.29	74.00	-4.71

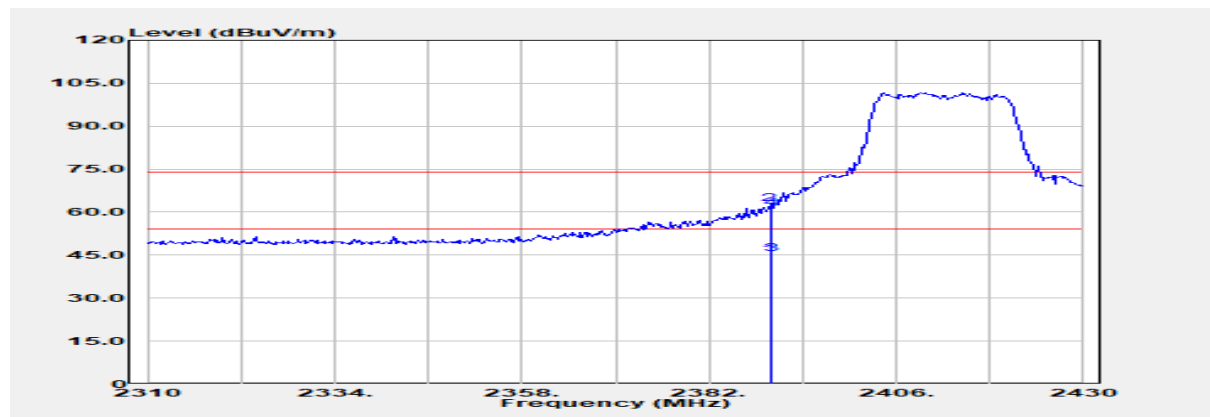
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Report Number :E2/2021/30018
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :BE CH 01
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :23.6/52
Antenna Pol. :Horizontal
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
2389.808	Average	40.01	5.17	45.18	54.00	-8.82
2389.808	Peak	57.78	5.17	62.96	74.00	-11.04
2390.000	Average	40.24	5.18	45.42	54.00	-8.58
2390.000	Peak	56.10	5.18	61.28	74.00	-12.72

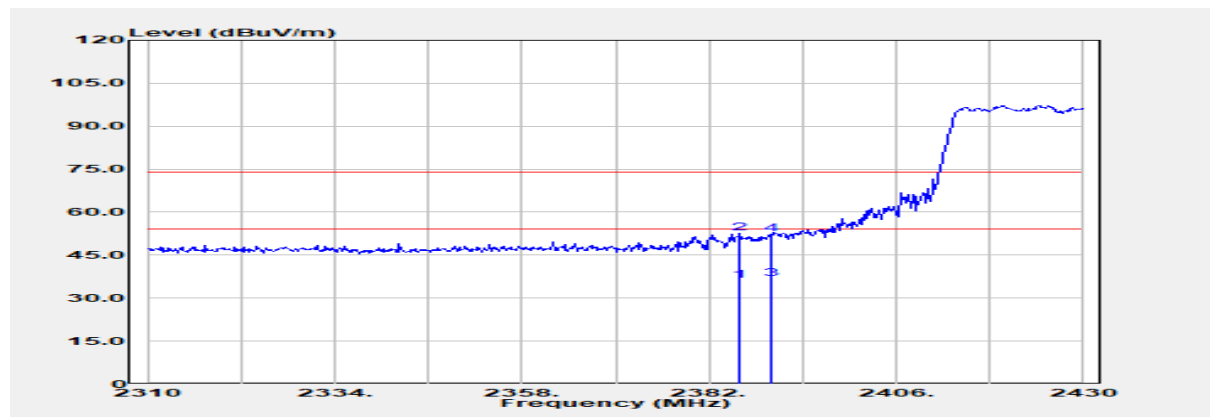
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.5/57
 Antenna Pol. :Vertical
 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
2385.961	Average	31.21	5.00	36.21	54.00	-17.79
2385.961	Peak	47.65	5.00	52.66	74.00	-21.34
2390.000	Average	31.46	5.18	36.64	54.00	-17.36
2390.000	Peak	47.24	5.18	52.42	74.00	-21.58

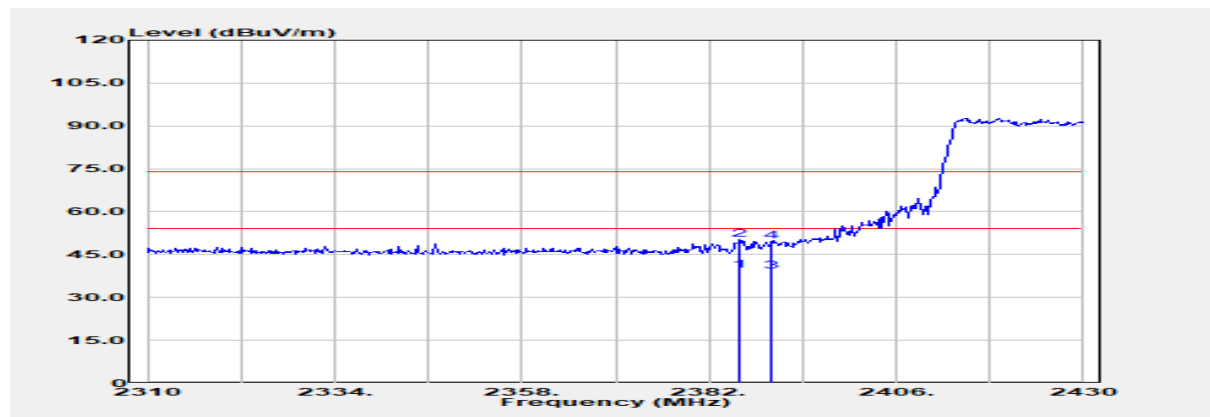
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.5/57
 Antenna Pol. :Horizontal
 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
2385.961	Average	34.46	5.00	39.46	54.00	-14.54
2385.961	Peak	45.32	5.00	50.32	74.00	-23.68
2390.000	Average	33.92	5.18	39.10	54.00	-14.90
2390.000	Peak	44.30	5.18	49.48	74.00	-24.52

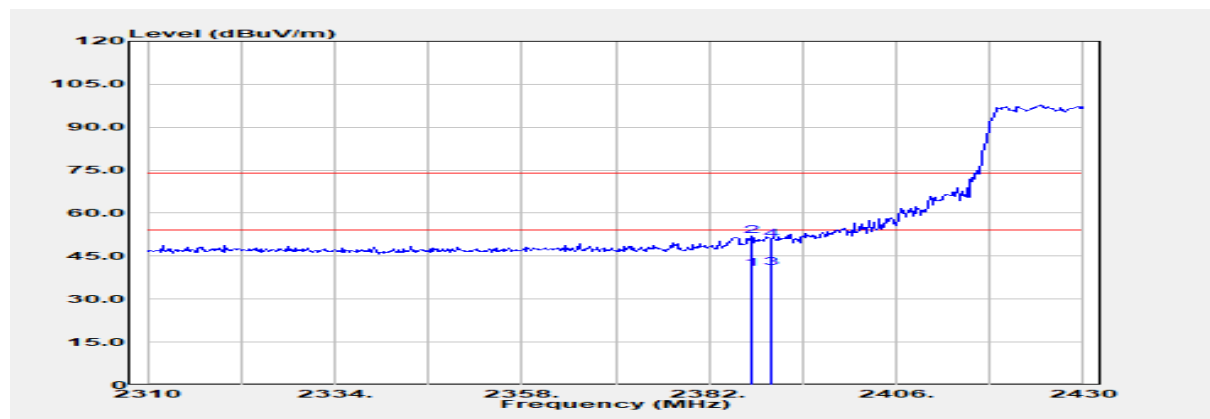
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-11
 Temp./Humi. :23.5/57
 Antenna Pol. :Vertical
 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
2387.308	Average	35.47	5.06	40.53	54.00	-13.47
2387.308	Peak	46.88	5.06	51.94	74.00	-22.06
2390.000	Average	35.80	5.18	40.98	54.00	-13.02
2390.000	Peak	45.63	5.18	50.81	74.00	-23.19

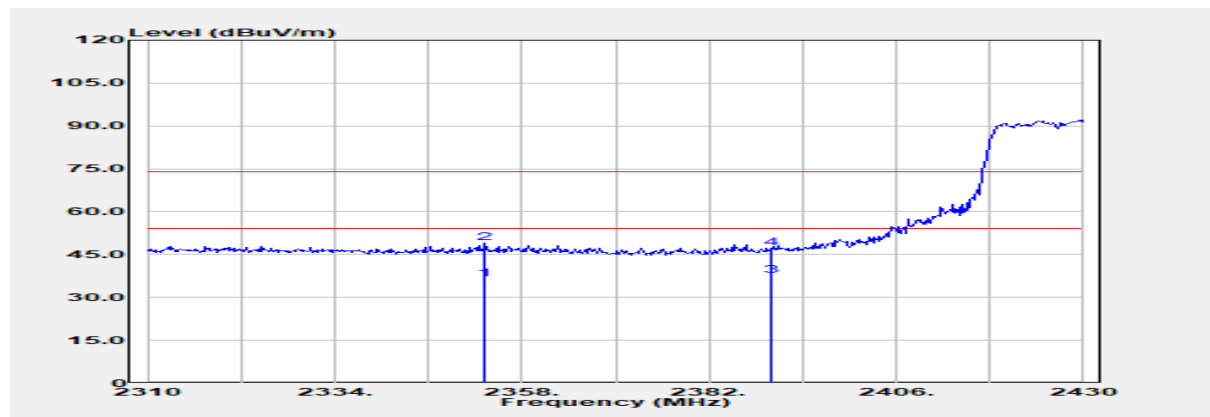
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-11
 Temp./Humi. :23.5/57
 Antenna Pol. :Horizontal
 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
2353.269	Average	30.94	5.40	36.34	54.00	-17.66
2353.269	Peak	43.72	5.40	49.12	74.00	-24.88
2390.000	Average	32.46	5.18	37.64	54.00	-16.36
2390.000	Peak	42.17	5.18	47.35	74.00	-26.65

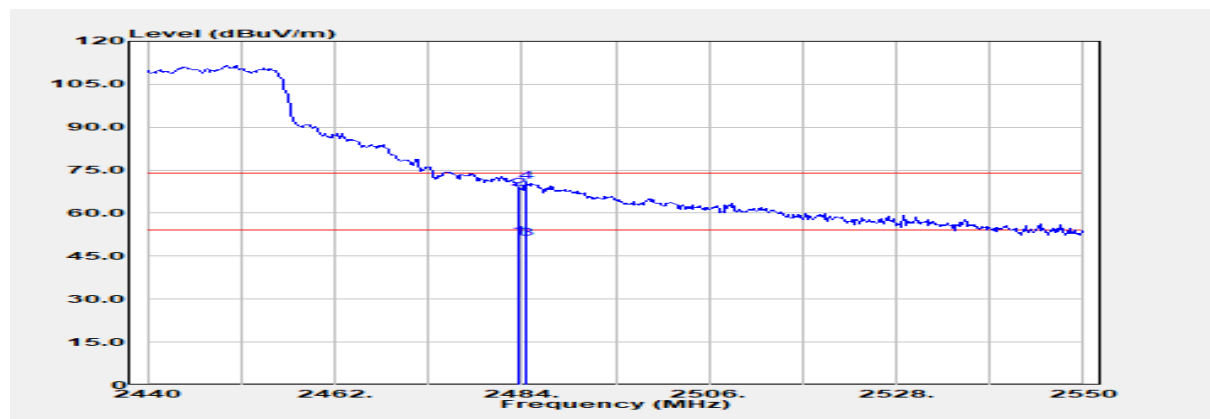
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Vertical
 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
2483.500	Average	47.75	4.04	51.79	54.00	-2.21
2483.500	Peak	64.63	4.04	68.66	74.00	-5.34
2484.599	Average	47.14	4.03	51.17	54.00	-2.83
2484.599	Peak	66.87	4.03	70.89	74.00	-3.11

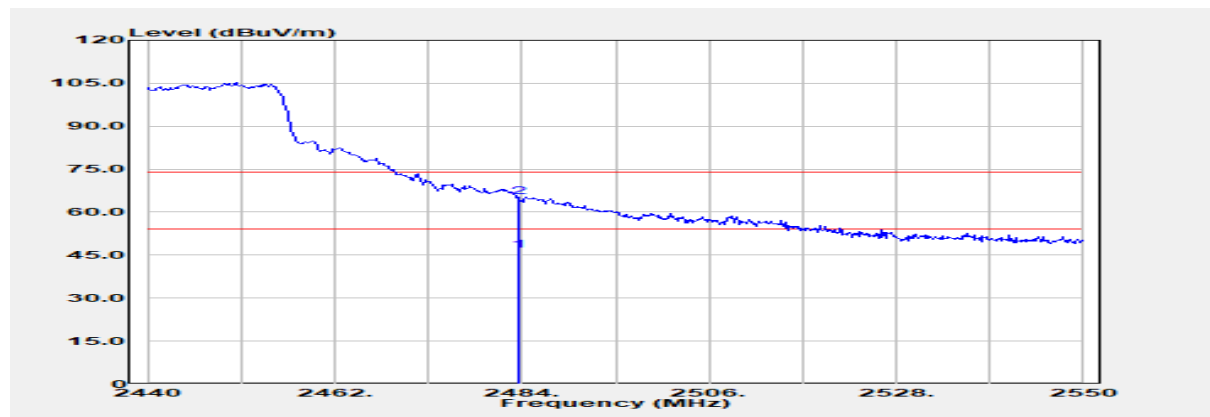
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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	42.69	4.04	46.73	54.00	-7.27
2483.500	Peak	61.31	4.04	65.35	74.00	-8.65

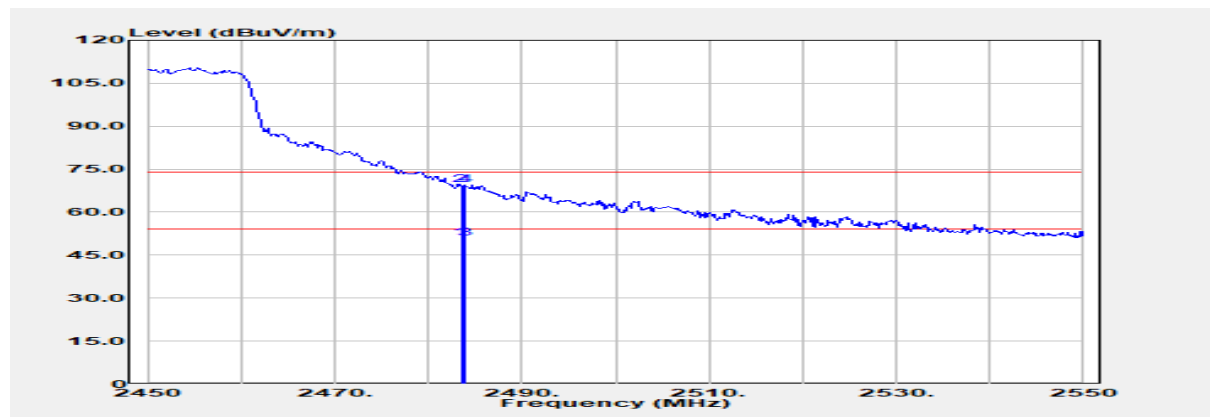
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Vertical
 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
2483.500	Average	46.87	4.04	50.91	54.00	-3.09
2483.500	Peak	65.45	4.04	69.49	74.00	-4.51
2483.814	Average	46.71	4.03	50.74	54.00	-3.26
2483.814	Peak	65.58	4.03	69.62	74.00	-4.38

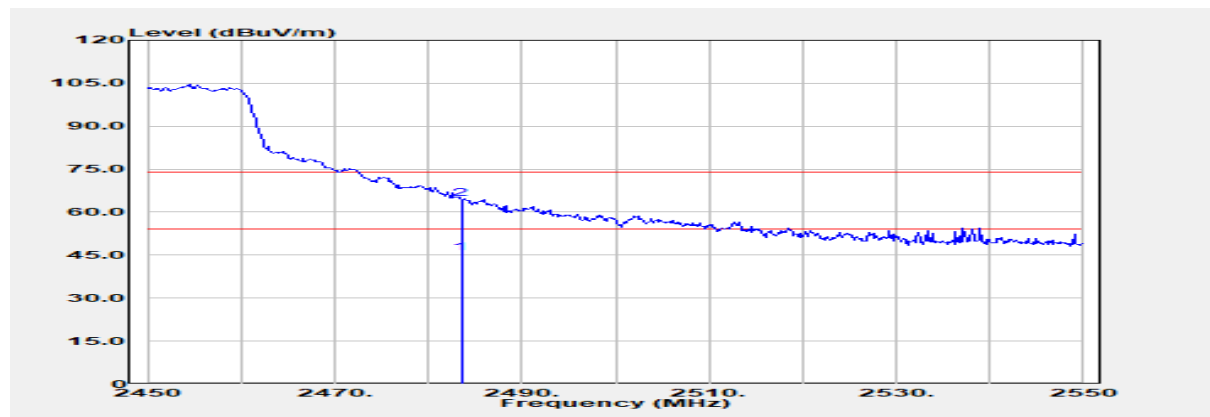
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.500	Average	41.76	4.04	45.80	54.00	-8.20
2483.500	Peak	60.76	4.04	64.80	74.00	-9.20

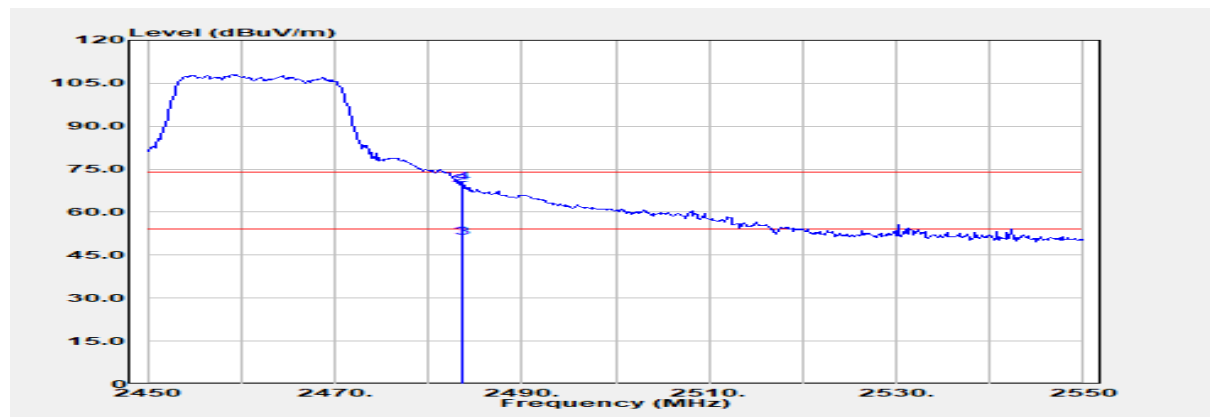
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Vertical
 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
2483.500	Average	47.28	4.04	51.32	54.00	-2.68
2483.500	Peak	65.58	4.04	69.62	74.00	-4.38
2483.654	Average	47.18	4.03	51.21	54.00	-2.79
2483.654	Peak	66.27	4.03	70.30	74.00	-3.70

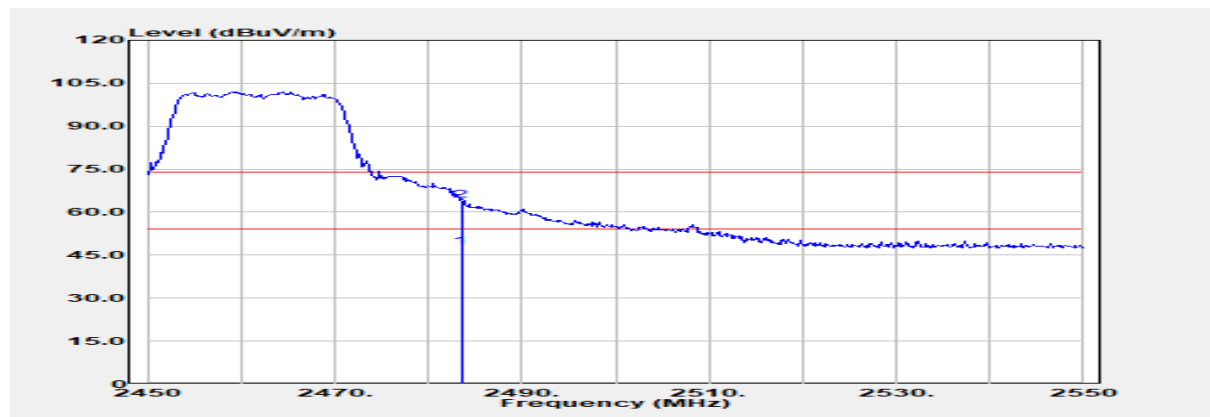
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.3/55
 Antenna Pol. :Horizontal
 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
2483.500	Average	43.78	4.04	47.82	54.00	-6.18
2483.500	Peak	60.10	4.04	64.14	74.00	-9.86

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

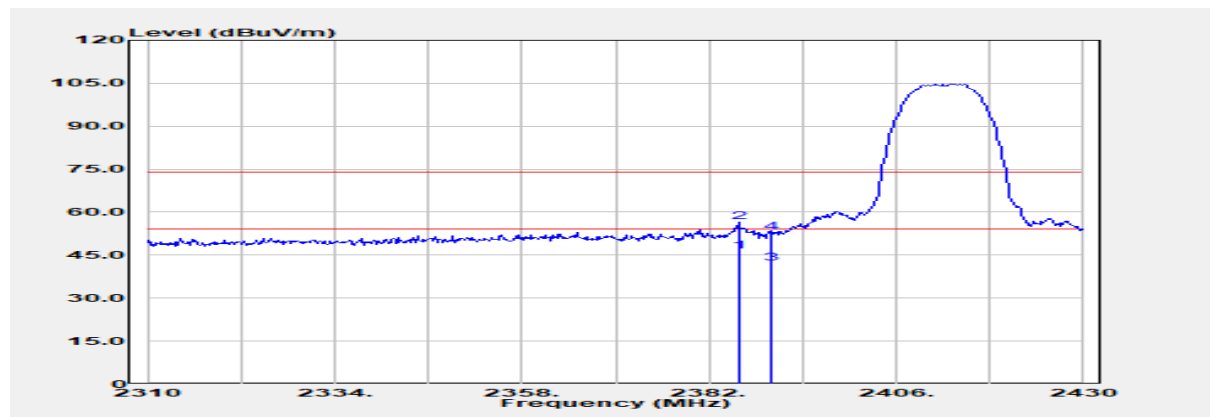
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11.7.3 Dipole Ant.

Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.6/69
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2385.769	Average	41.18	4.99	46.17	54.00	-7.83
2385.769	Peak	51.40	4.99	56.40	74.00	-17.60
2390.000	Average	36.81	5.18	41.99	54.00	-12.01
2390.000	Peak	47.65	5.18	52.83	74.00	-21.17

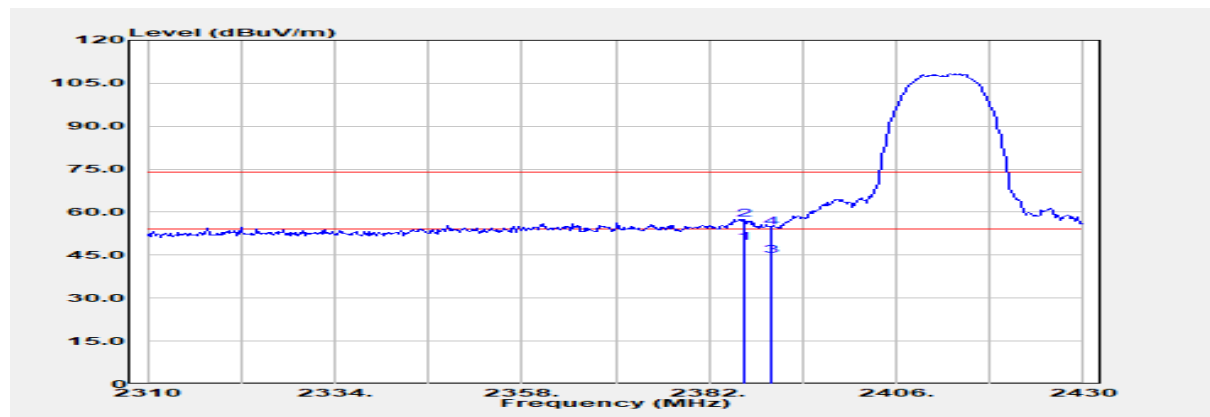
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.6/69
 Antenna Pol. :Horizontal
 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
2386.539	Average	44.37	5.03	49.40	54.00	-4.60
2386.539	Peak	52.37	5.03	57.40	74.00	-16.60
2390.000	Average	39.74	5.18	44.92	54.00	-9.08
2390.000	Peak	49.66	5.18	54.84	74.00	-19.16

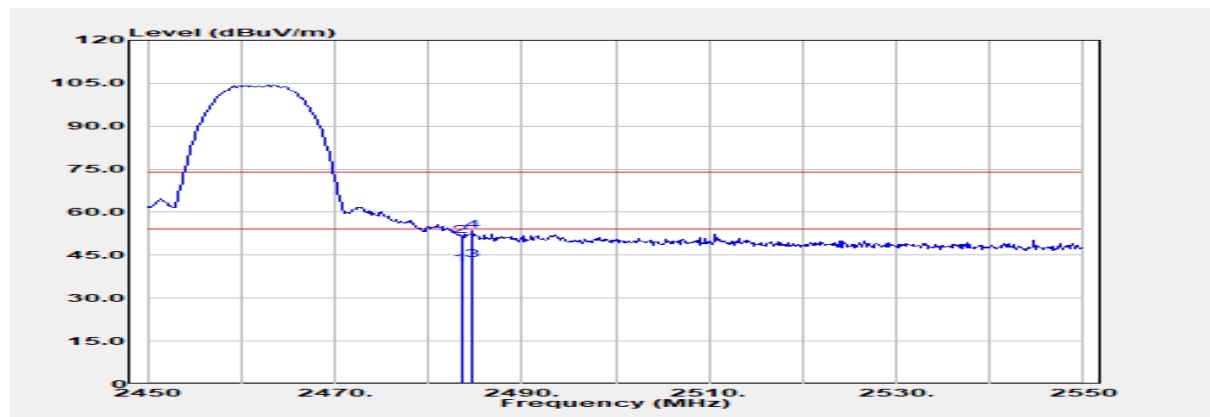
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Report Number :E2/2021/30018
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :BE CH 11
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-05-03
Temp./Humi. :23.6/69
Antenna Pol. :Vertical
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
2483.500	Average	37.62	4.04	41.66	54.00	-12.34
2483.500	Peak	47.61	4.04	51.64	74.00	-22.36
2484.776	Average	39.19	4.02	43.21	54.00	-10.79
2484.776	Peak	49.42	4.02	53.45	74.00	-20.55

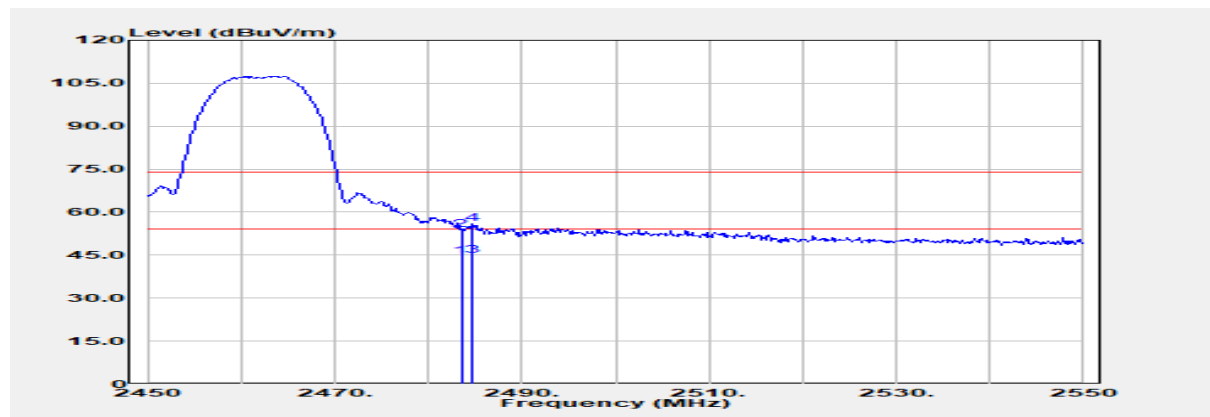
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.6/69
 Antenna Pol. :Horizontal
 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
2483.500	Average	40.37	4.04	44.41	54.00	-9.59
2483.500	Peak	49.68	4.04	53.71	74.00	-20.29
2484.615	Average	40.71	4.03	44.74	54.00	-9.26
2484.615	Peak	51.82	4.03	55.84	74.00	-18.16

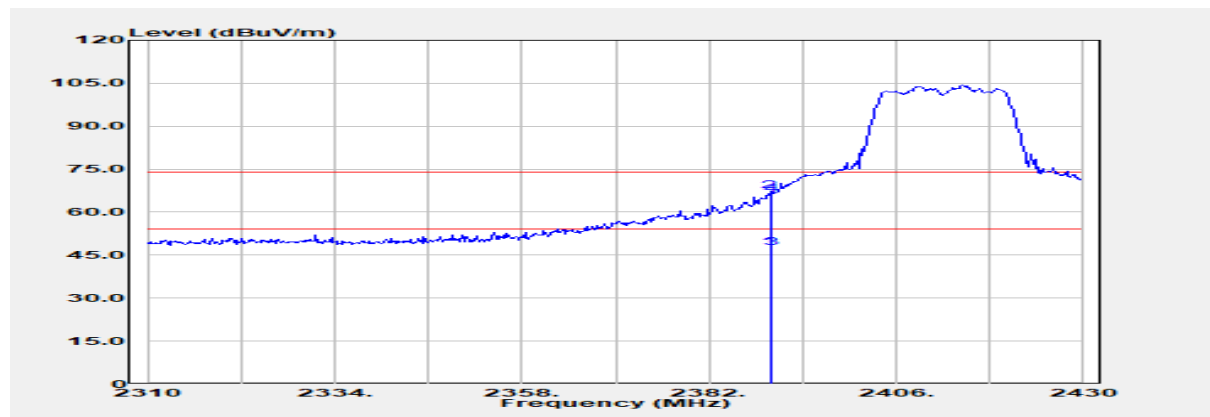
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.808	Average	42.31	5.17	47.48	54.00	-6.52
2389.808	Peak	62.30	5.17	67.47	74.00	-6.53
2390.000	Average	42.44	5.18	47.62	54.00	-6.38
2390.000	Peak	60.84	5.18	66.02	74.00	-7.98

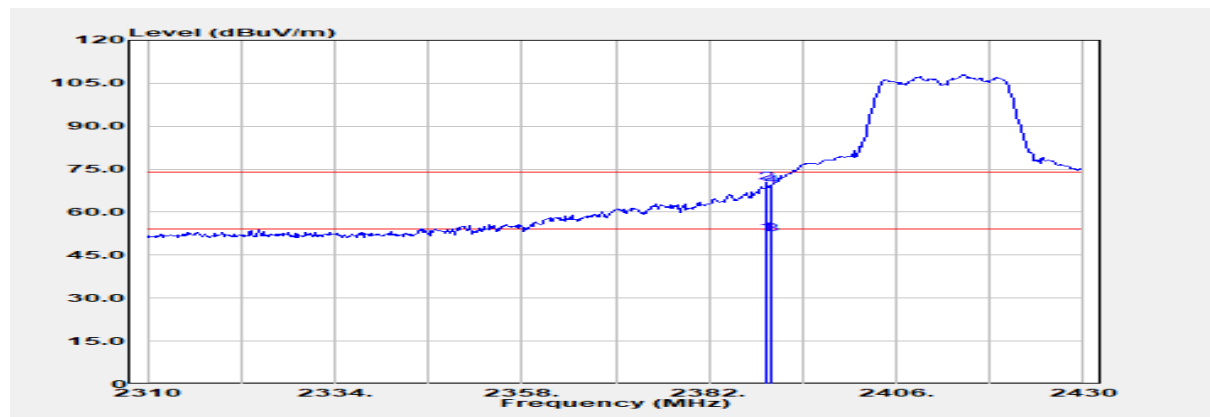
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Horizontal
 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
2389.423	Average	47.46	5.15	52.61	54.00	-1.39
2389.423	Peak	65.30	5.15	70.46	74.00	-3.54
2390.000	Average	47.04	5.18	52.22	54.00	-1.78
2390.000	Peak	64.08	5.18	69.26	74.00	-4.74

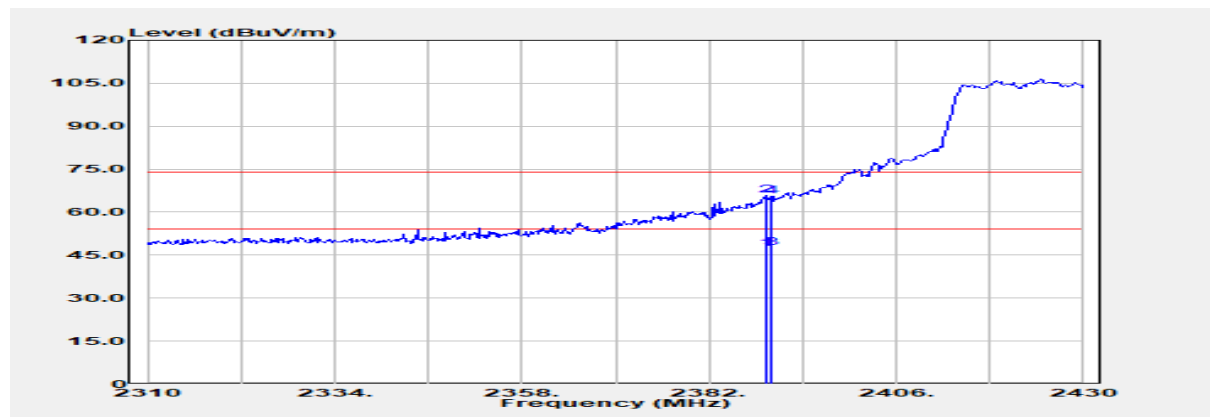
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Vertical
 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
2389.423	Average	41.93	5.15	47.08	54.00	-6.92
2389.423	Peak	60.81	5.15	65.96	74.00	-8.04
2390.000	Average	42.24	5.18	47.42	54.00	-6.58
2390.000	Peak	60.25	5.18	65.43	74.00	-8.57

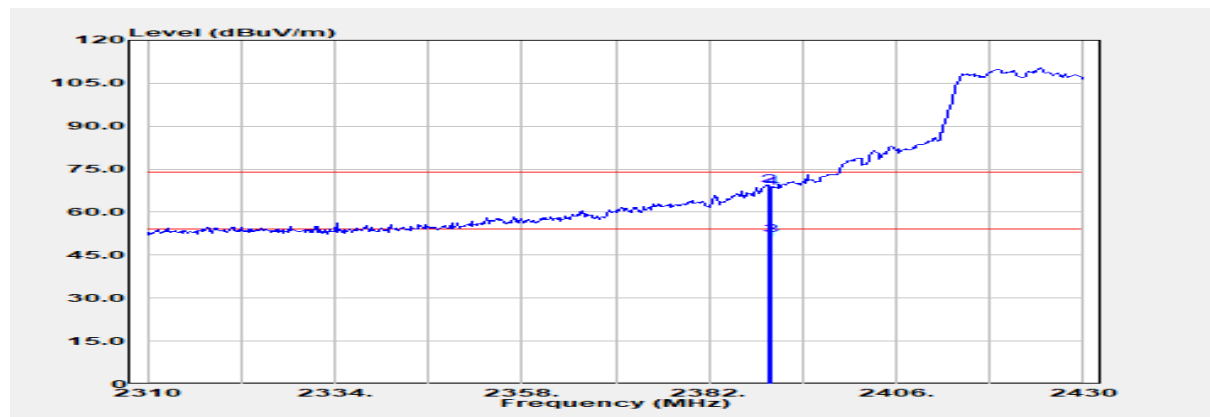
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.615	Average	45.43	5.16	50.59	54.00	-3.41
2389.615	Peak	64.41	5.16	69.58	74.00	-4.42
2390.000	Average	46.93	5.18	52.11	54.00	-1.89
2390.000	Peak	63.32	5.18	68.50	74.00	-5.50

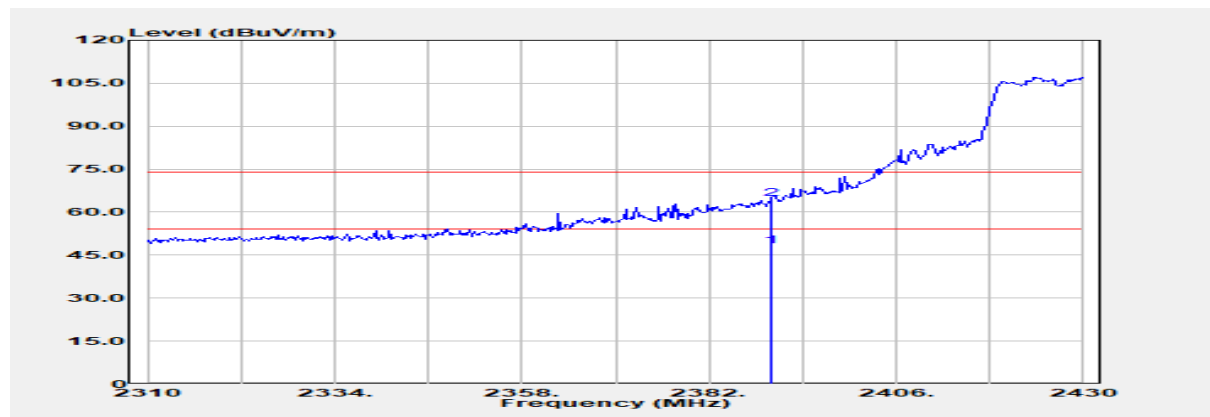
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	43.09	5.18	48.27	54.00	-5.73
2390.000	Peak	59.40	5.18	64.58	74.00	-9.42

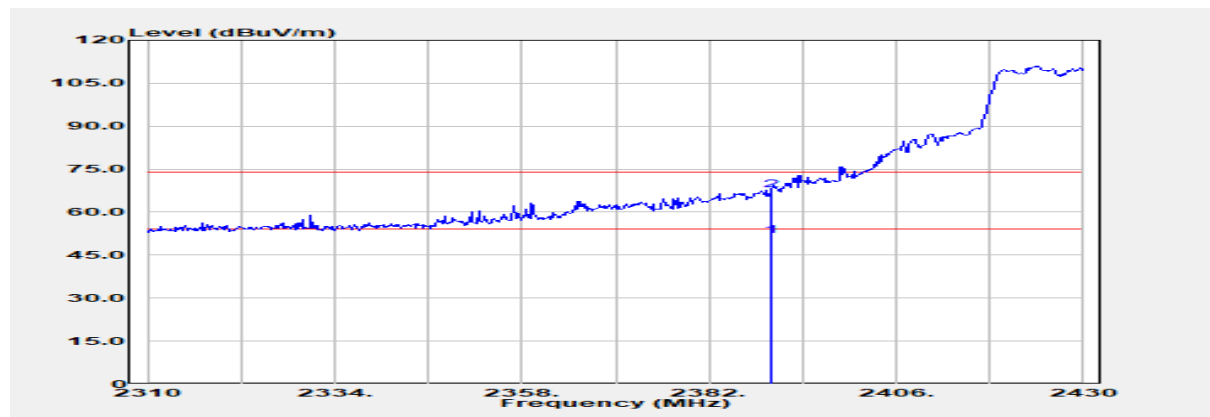
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Horizontal
 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
2390.000	Average	46.51	5.18	51.69	54.00	-2.31
2390.000	Peak	62.49	5.18	67.67	74.00	-6.33

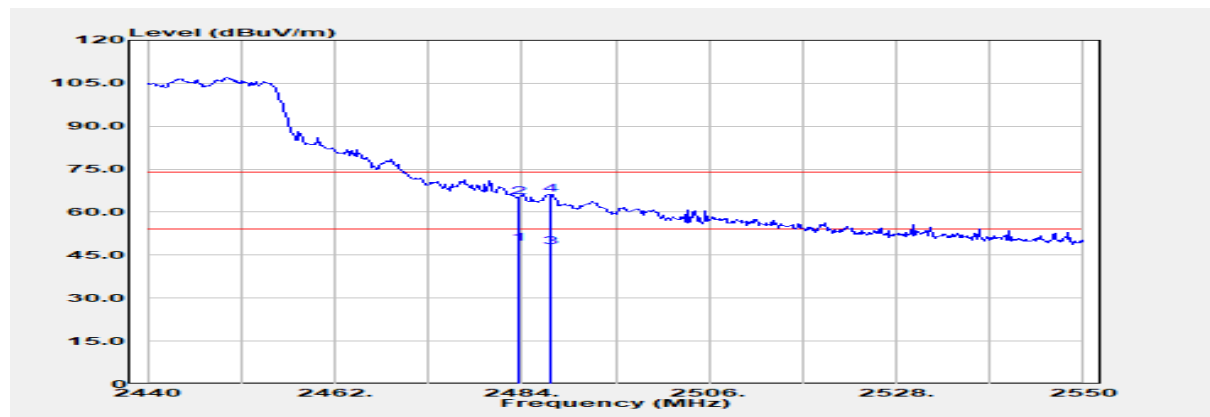
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 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
2483.500	Average	44.94	4.04	48.98	54.00	-5.02
2483.500	Peak	61.37	4.04	65.40	74.00	-8.60
2487.244	Average	43.71	4.00	47.71	54.00	-6.29
2487.244	Peak	62.19	4.00	66.19	74.00	-7.81

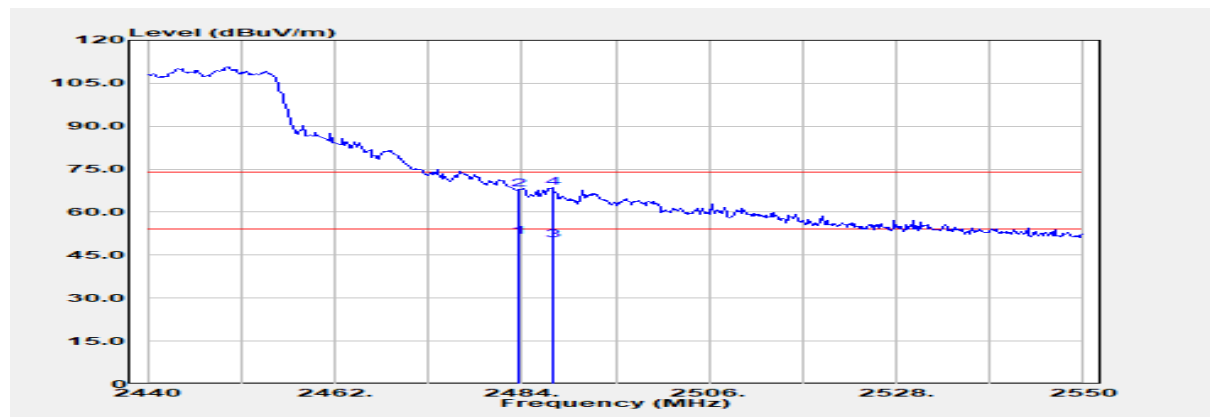
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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	47.46	4.04	51.50	54.00	-2.50
2483.500	Peak	63.87	4.04	67.91	74.00	-6.09
2487.596	Average	46.16	4.00	50.16	54.00	-3.84
2487.596	Peak	64.44	4.00	68.44	74.00	-5.56

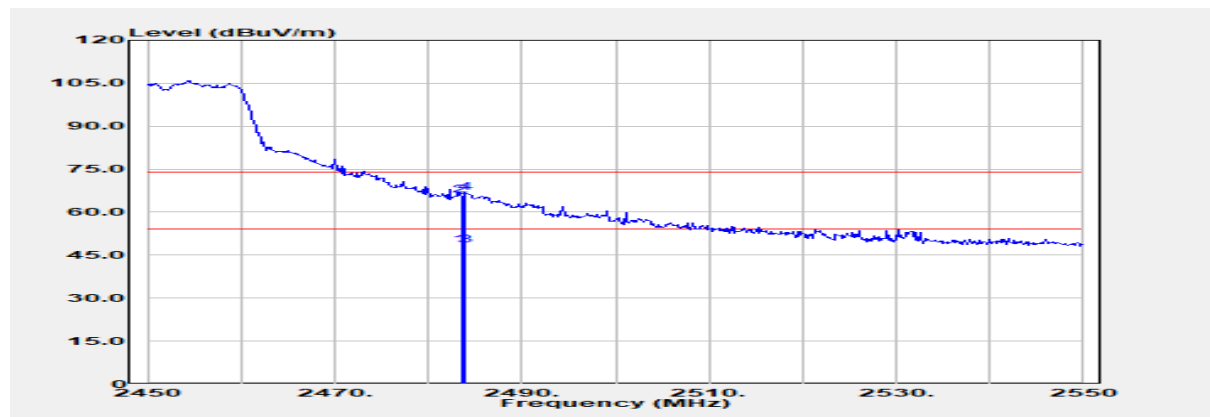
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.5/62
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.500	Average	44.49	4.04	48.53	54.00	-5.47
2483.500	Peak	61.79	4.04	65.83	74.00	-8.17
2483.814	Average	44.31	4.03	48.34	54.00	-5.66
2483.814	Peak	62.74	4.03	66.77	74.00	-7.23

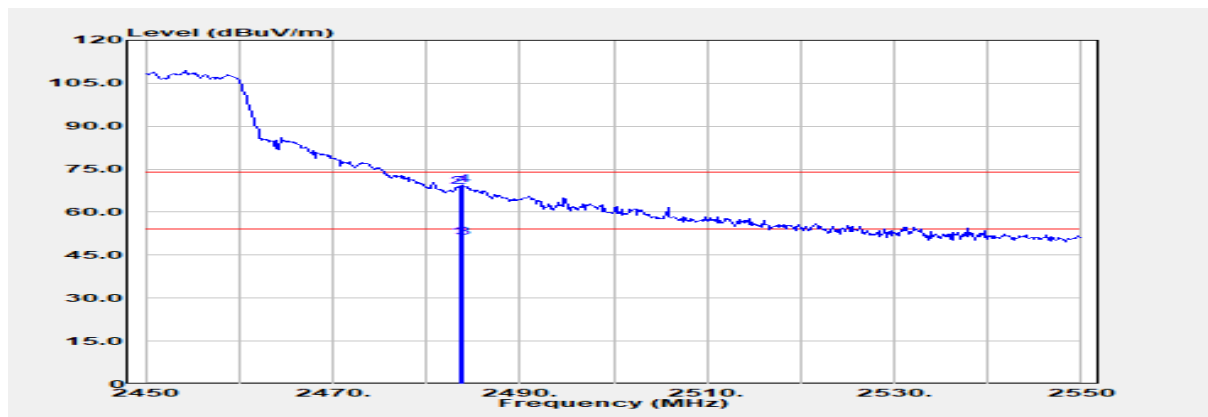
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.5/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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	47.21	4.04	51.25	54.00	-2.75
2483.500	Peak	64.72	4.04	68.75	74.00	-5.25
2483.814	Average	47.02	4.03	51.05	54.00	-2.95
2483.814	Peak	65.42	4.03	69.45	74.00	-4.55

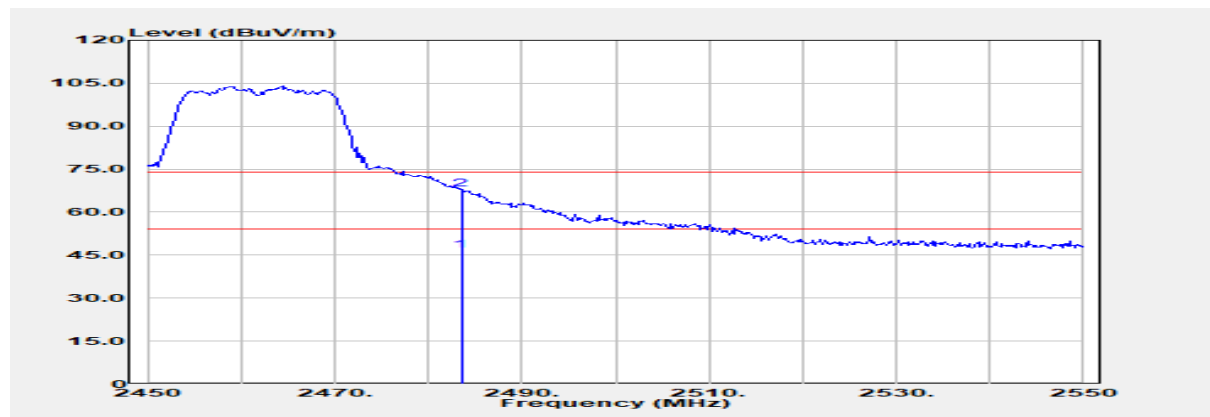
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	42.65	4.04	46.69	54.00	-7.31
2483.500	Peak	63.80	4.04	67.84	74.00	-6.16

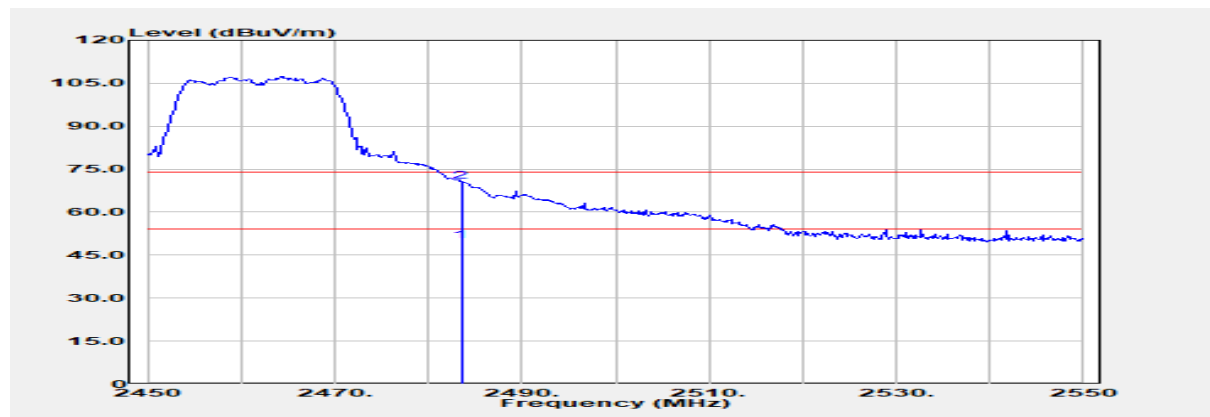
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-03
 Temp./Humi. :23.8/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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	46.01	4.04	50.05	54.00	-3.95
2483.500	Peak	66.52	4.04	70.55	74.00	-3.45

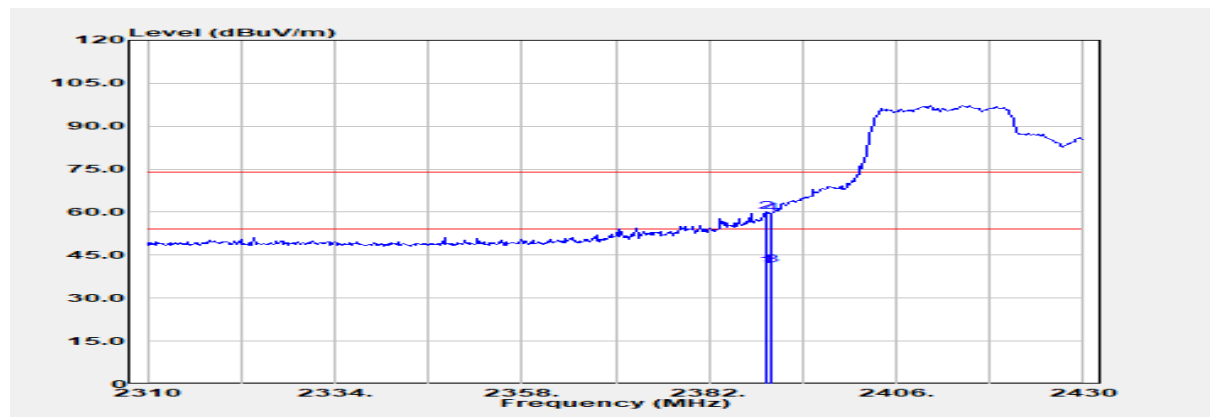
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.1/64
 Antenna Pol. :Vertical
 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
2389.231	Average	36.15	5.15	41.30	54.00	-12.70
2389.231	Peak	55.04	5.15	60.19	74.00	-13.81
2390.000	Average	36.31	5.18	41.49	54.00	-12.51
2390.000	Peak	54.45	5.18	59.63	74.00	-14.37

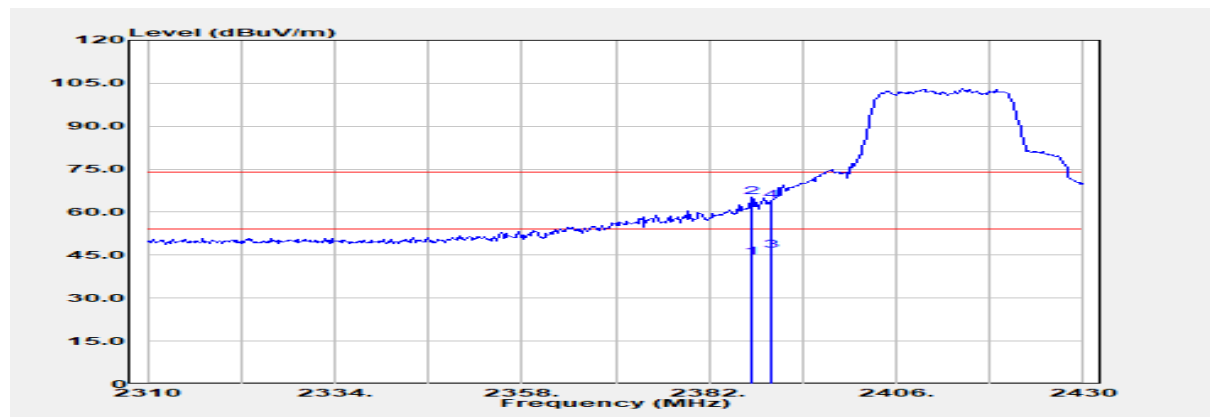
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.1/64
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.308	Average	39.05	5.06	44.11	54.00	-9.89
2387.308	Peak	60.13	5.06	65.19	74.00	-8.81
2390.000	Average	41.44	5.18	46.62	54.00	-7.38
2390.000	Peak	58.76	5.18	63.94	74.00	-10.06

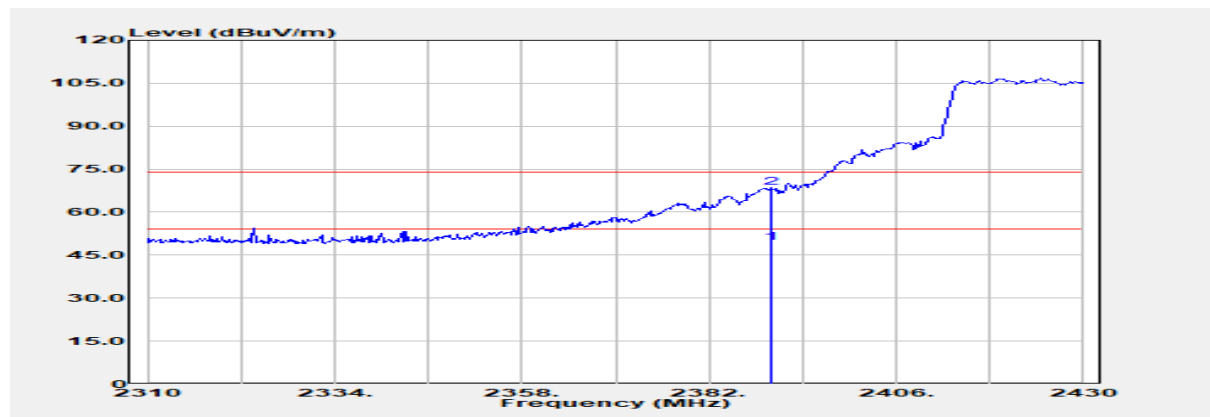
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.9/62
 Antenna Pol. :Vertical
 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
2390.000	Average	44.07	5.18	49.25	54.00	-4.75
2390.000	Peak	63.53	5.18	68.71	74.00	-5.29

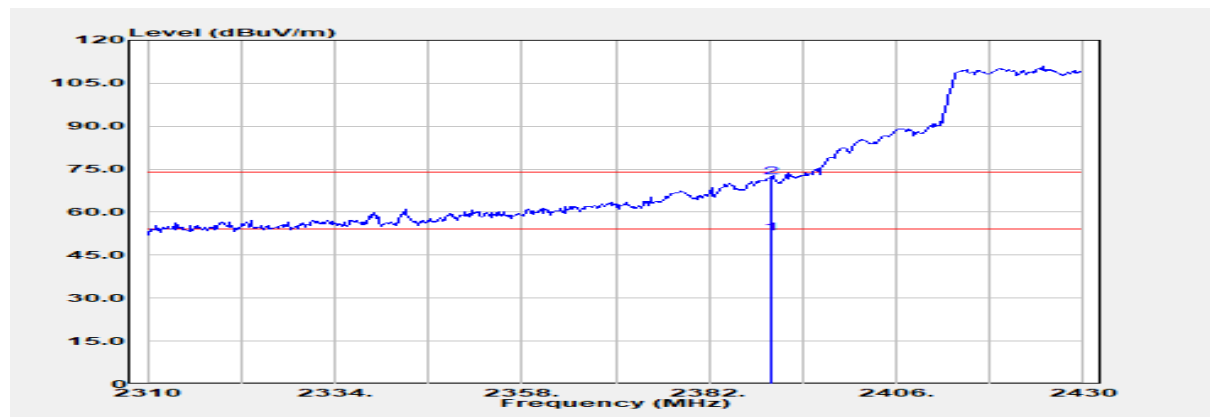
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.9/62
 Antenna Pol. :Horizontal
 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
2390.000	Average	47.42	5.18	52.60	54.00	-1.40
2390.000	Peak	67.13	5.18	72.31	74.00	-1.69

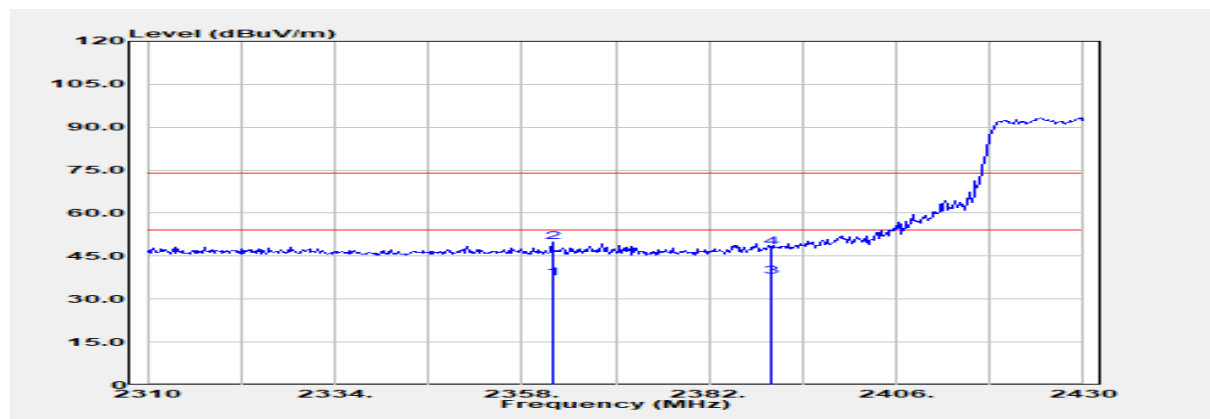
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-11
 Temp./Humi. :23.1/64
 Antenna Pol. :Vertical
 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
2361.923	Average	32.02	5.37	37.39	54.00	-16.61
2361.923	Peak	44.47	5.37	49.84	74.00	-24.16
2390.000	Average	32.64	5.18	37.82	54.00	-16.18
2390.000	Peak	42.98	5.18	48.16	74.00	-25.84

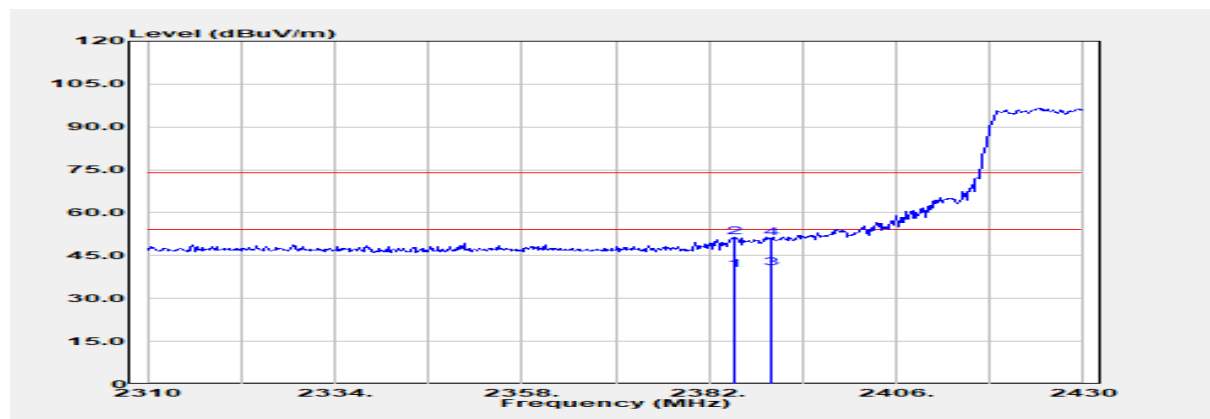
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-11
 Temp./Humi. :23.1/64
 Antenna Pol. :Horizontal
 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
2385.192	Average	35.17	4.97	40.14	54.00	-13.86
2385.192	Peak	46.43	4.97	51.40	74.00	-22.60
2390.000	Average	35.37	5.18	40.55	54.00	-13.45
2390.000	Peak	46.04	5.18	51.22	74.00	-22.78

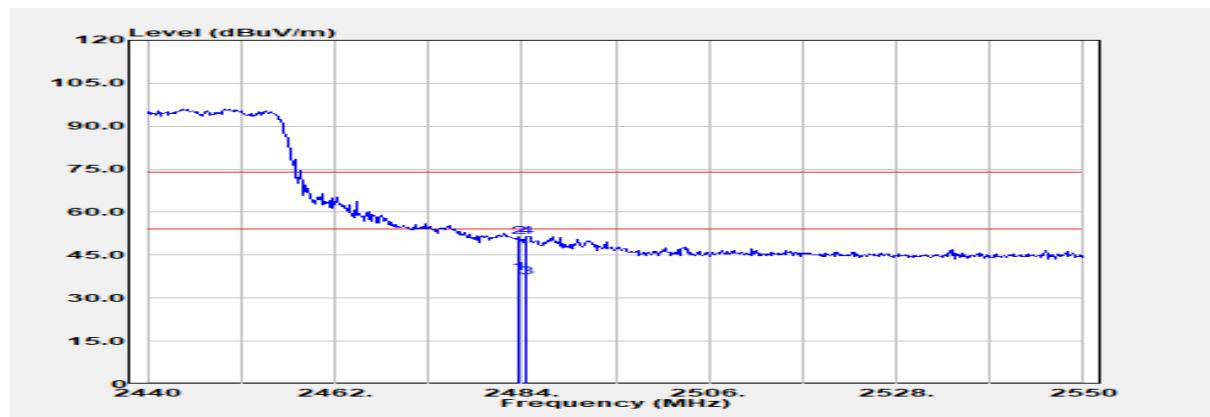
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Report Number :E2/2021/30018
Operation Mode :802.11n20
Test Frequency :2447 MHz
Test Mode :BE CH 08
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-05-11
Temp./Humi. :23.1/64
Antenna Pol. :Vertical
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
2483.500	Average	34.64	4.04	38.68	54.00	-15.32
2483.500	Peak	47.25	4.04	51.28	74.00	-22.72
2484.599	Average	33.19	4.03	37.22	54.00	-16.78
2484.599	Peak	47.43	4.03	51.46	74.00	-22.54

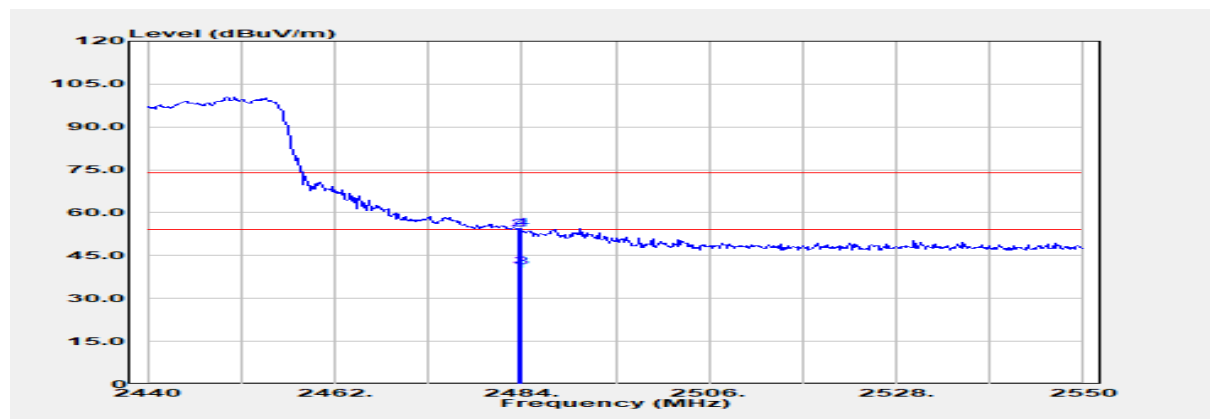
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-11
 Temp./Humi. :23.1/64
 Antenna Pol. :Horizontal
 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
2483.500	Average	35.72	4.04	39.76	54.00	-14.24
2483.500	Peak	50.02	4.04	54.05	74.00	-19.95
2483.894	Average	36.91	4.03	40.94	54.00	-13.06
2483.894	Peak	50.36	4.03	54.39	74.00	-19.61

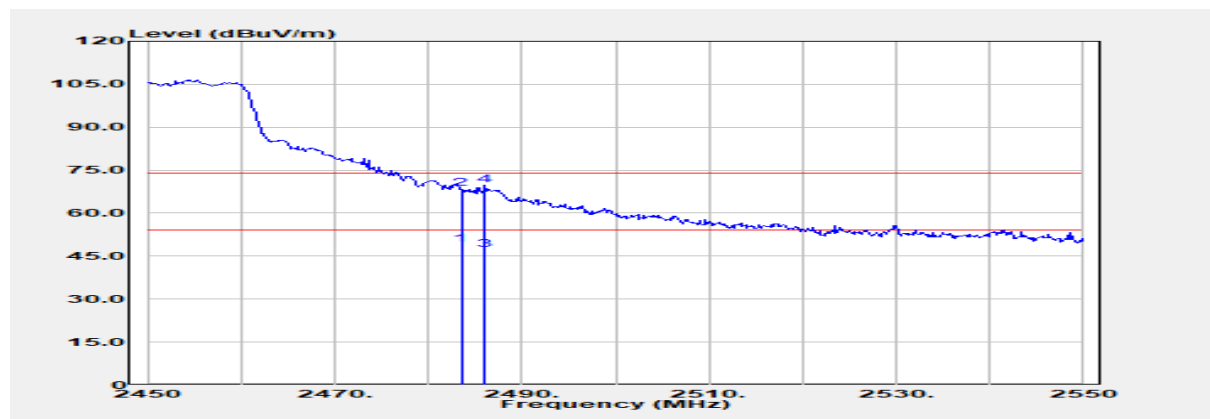
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.9/62
 Antenna Pol. :Vertical
 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
2483.500	Average	45.11	4.04	49.15	54.00	-4.85
2483.500	Peak	64.47	4.04	68.51	74.00	-5.49
2486.058	Average	43.35	4.01	47.36	54.00	-6.64
2486.058	Peak	65.65	4.01	69.66	74.00	-4.34

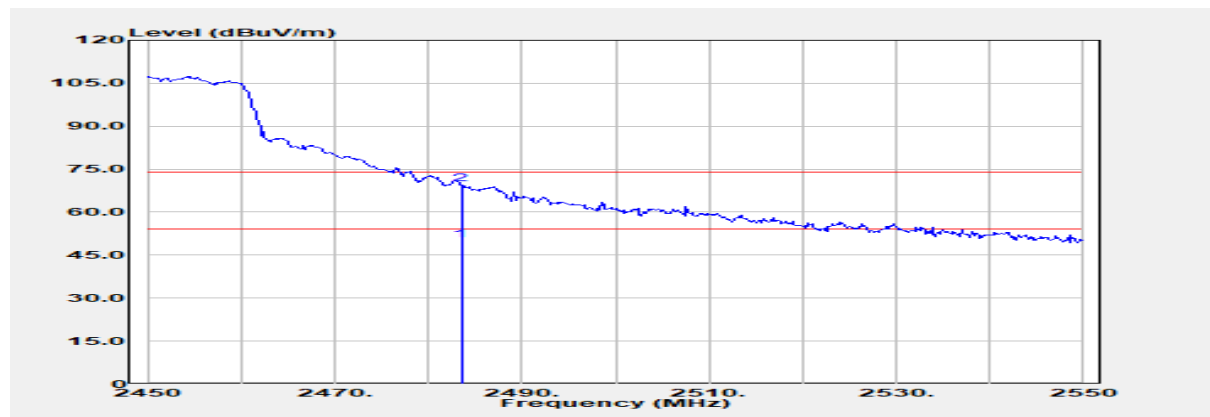
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-17
 Temp./Humi. :23.9/62
 Antenna Pol. :Horizontal
 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
2483.500	Average	46.25	4.04	50.29	54.00	-3.71
2483.500	Peak	65.62	4.04	69.66	74.00	-4.34

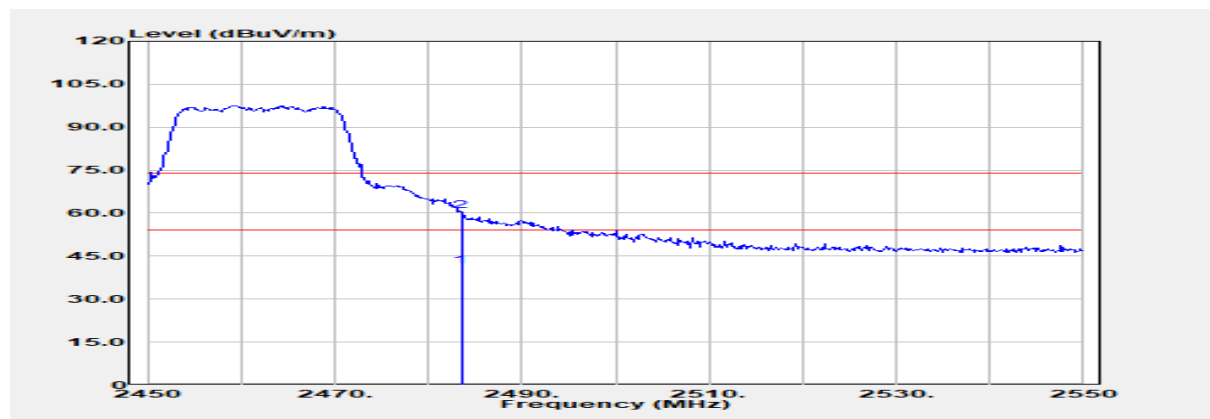
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Report Number :E2/2021/30018
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :BE CH 11
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :23.1/64
Antenna Pol. :Vertical
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
2483.500	Average	37.37	4.04	41.41	54.00	-12.59
2483.500	Peak	56.75	4.04	60.79	74.00	-13.21

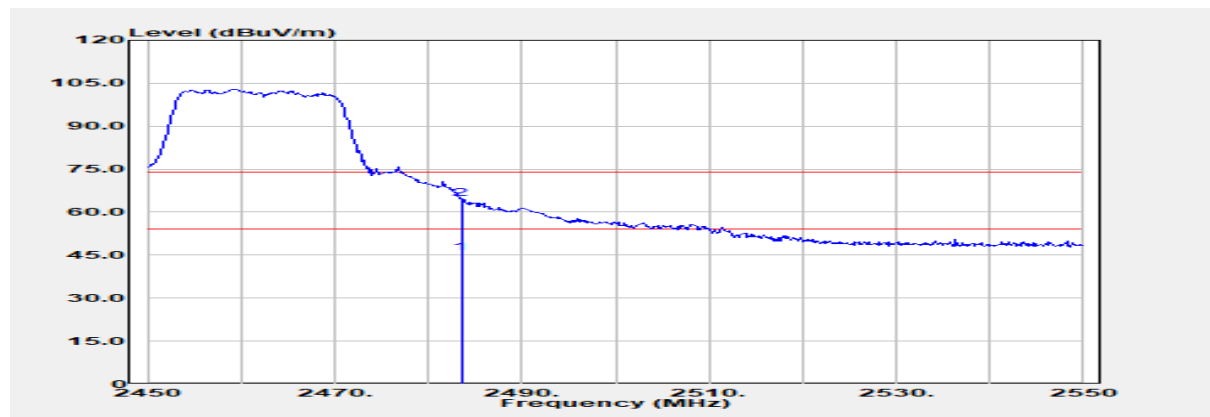
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :23.1/64
 Antenna Pol. :Horizontal
 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
2483.500	Average	41.78	4.04	45.82	54.00	-8.18
2483.500	Peak	60.72	4.04	64.75	74.00	-9.25

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11.7.4 Below 1GHz Worst-Case Emission:

11.7.5 Monopole Ant.

Report Number :E2/2021/30018

Test Site :SAC C

Operation Mode :802.11g

Test Date :2021-05-04

Test Frequency :2437 MHz

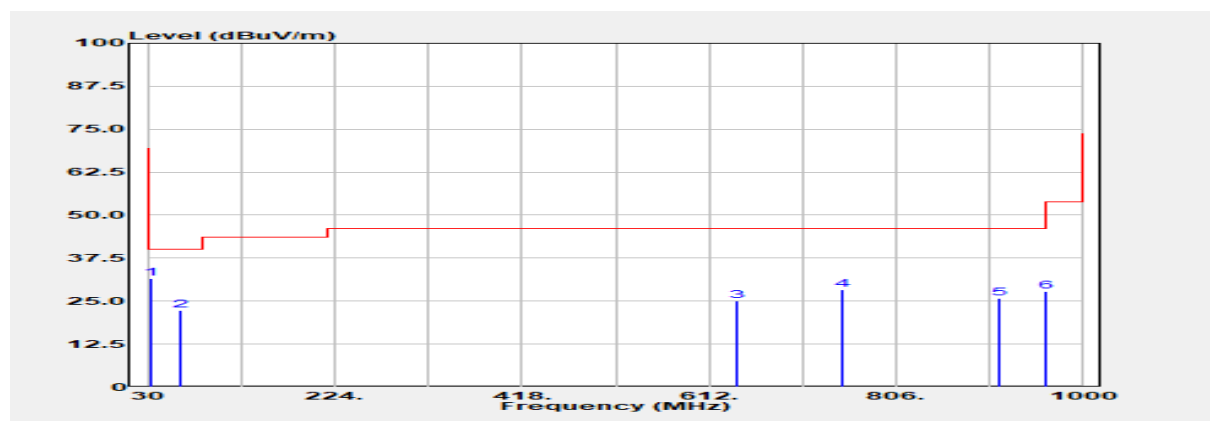
Temp./Humi. :22.1/66

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.663	Peak	40.35	-8.86	31.49	40.00	-8.51
64.199	Peak	45.63	-23.33	22.31	40.00	-17.69
640.914	Peak	33.19	-8.19	25.00	46.00	-21.00
749.728	Peak	35.63	-7.29	28.34	46.00	-17.66
912.949	Peak	32.33	-6.49	25.84	46.00	-20.16
961.138	Peak	33.75	-5.96	27.79	54.00	-26.21

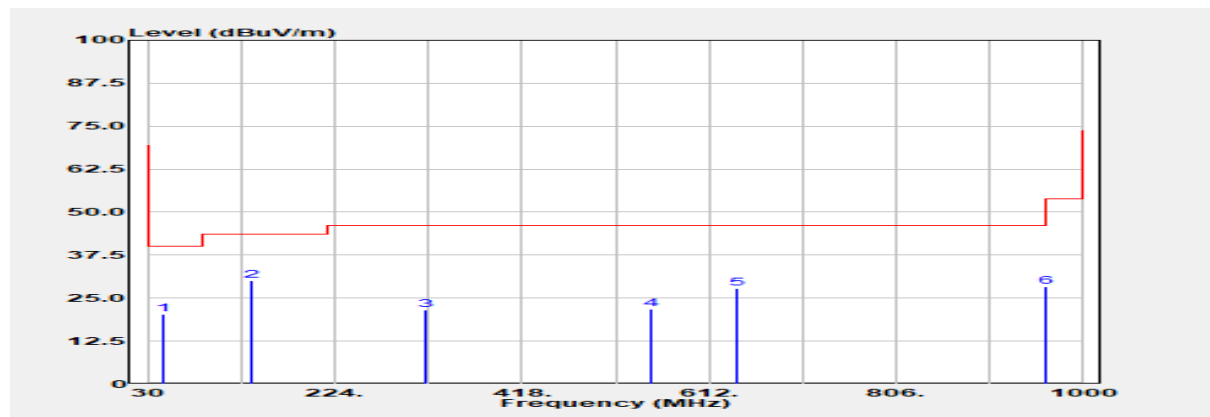
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Report Number :E2/2021/30018
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :22.1/66
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
47.099	Peak	37.59	-17.39	20.21	40.00	-19.79
138.814	Peak	47.28	-17.16	30.12	43.50	-13.38
319.135	Peak	36.66	-15.00	21.66	46.00	-24.34
552.308	Peak	30.67	-8.97	21.70	46.00	-24.30
640.914	Peak	36.05	-8.19	27.86	46.00	-18.14
961.138	Peak	34.24	-5.96	28.28	54.00	-25.72

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

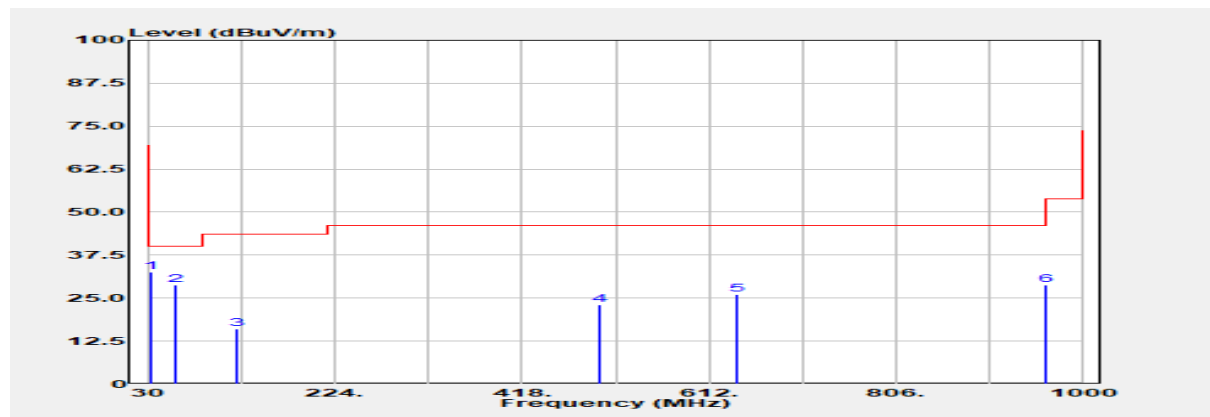
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11.7.6 Dipole Ant.

Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.3/69
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
34.663	Peak	41.56	-8.86	32.70	40.00	-7.30
59.535	Peak	52.96	-24.11	28.86	40.00	-11.14
123.269	Peak	32.87	-16.83	16.04	43.50	-27.46
499.455	Peak	33.76	-10.63	23.14	46.00	-22.86
640.914	Peak	34.29	-8.19	26.10	46.00	-19.90
961.138	Peak	34.68	-5.96	28.73	54.00	-25.27

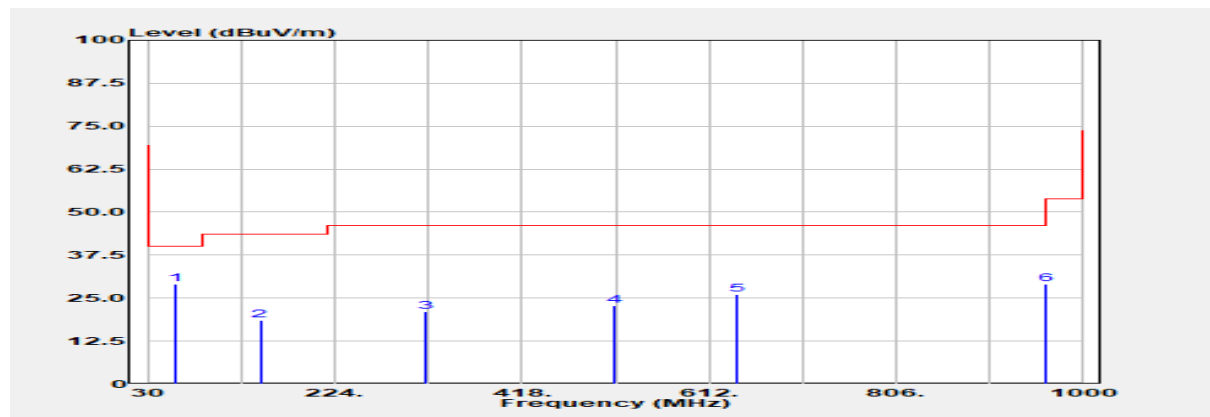
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.3/69
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
59.535	Peak	53.06	-24.11	28.95	40.00	-11.05
146.587	Peak	36.45	-17.93	18.52	43.50	-24.98
319.135	Peak	35.97	-15.00	20.98	46.00	-25.02
513.446	Peak	33.44	-10.66	22.78	46.00	-23.22
640.914	Peak	34.35	-8.19	26.16	46.00	-19.84
961.138	Peak	35.08	-5.96	29.12	54.00	-24.88

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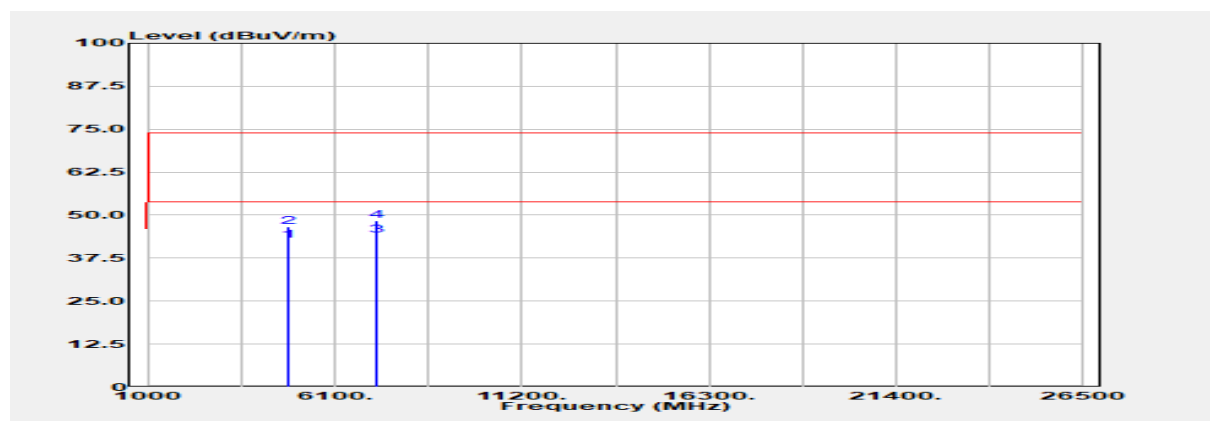
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11.7.7 Above 1GHz Emission:

11.7.8 Monopole Ant.

Report Number :E2/2021/30018
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-05
Temp./Humi. :21.9/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	31.90	10.61	42.51	54.00	-11.49
4824.000	Peak	36.05	10.61	46.65	74.00	-27.35
7236.000	Average	26.59	17.62	44.21	54.00	-9.79
7236.000	Peak	30.77	17.62	48.39	74.00	-25.61

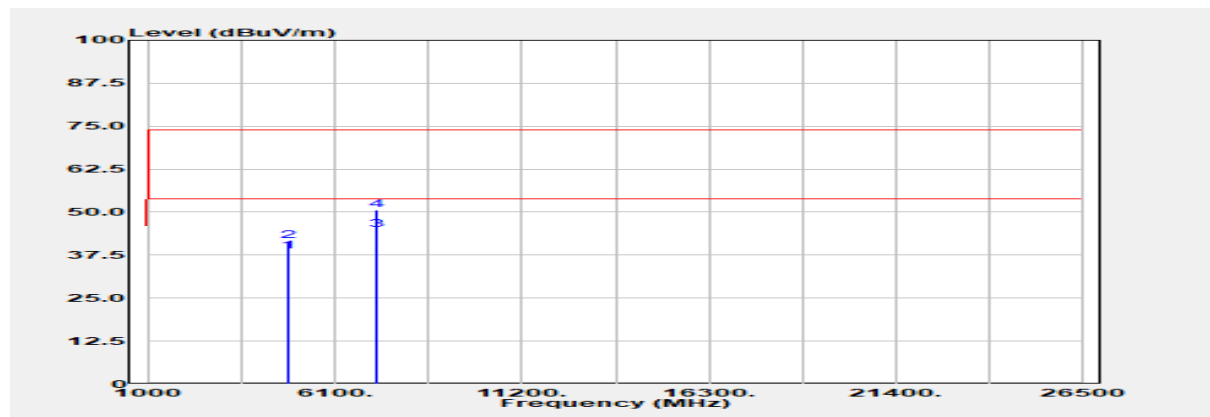
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :21.9/62
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.10	10.61	38.71	54.00	-15.29
4824.000	Peak	30.90	10.61	41.50	74.00	-32.50
7236.000	Average	27.32	17.62	44.94	54.00	-9.06
7236.000	Peak	32.98	17.62	50.60	74.00	-23.40

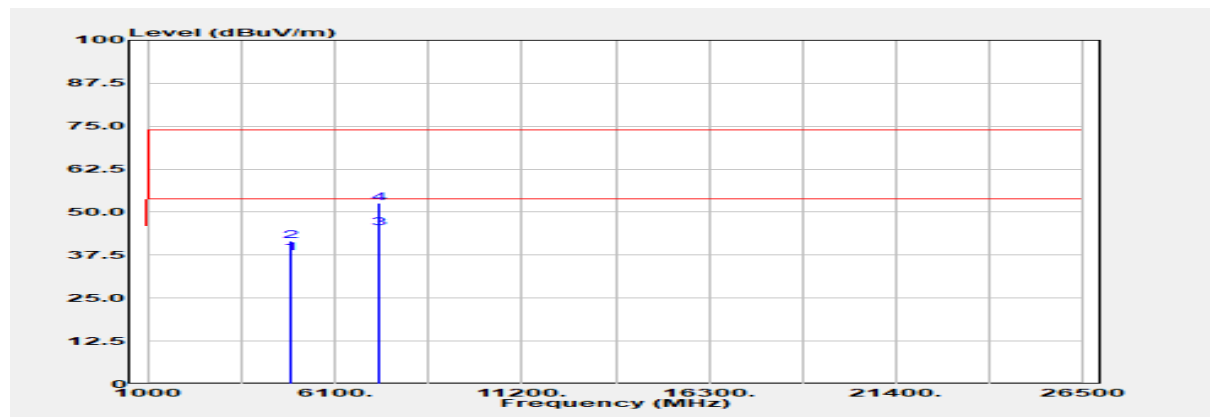
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :21.9/62
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	27.67	10.38	38.05	54.00	-15.95
4874.000	Peak	31.25	10.38	41.63	74.00	-32.37
7311.000	Average	27.31	17.97	45.28	54.00	-8.72
7311.000	Peak	34.60	17.97	52.57	74.00	-21.43

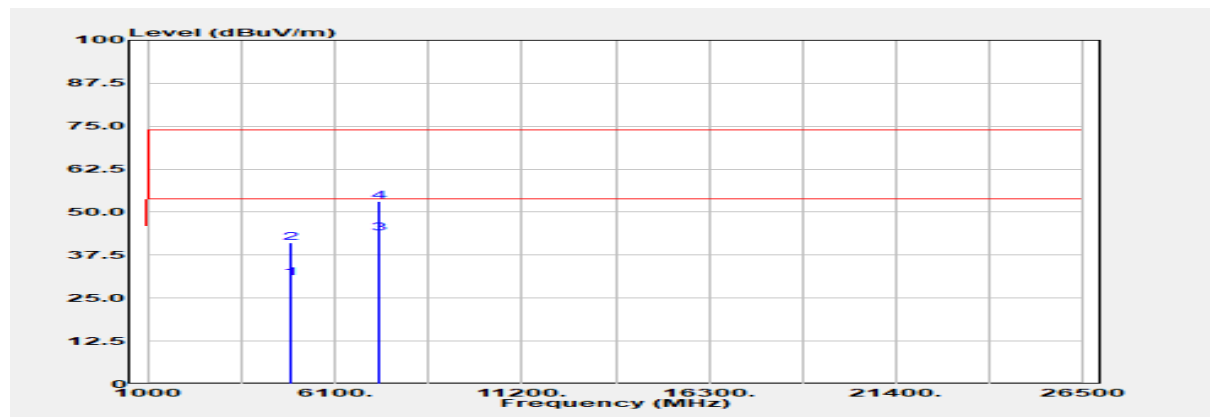
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :21.9/62
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.52	10.38	30.90	54.00	-23.10
4874.000	Peak	30.80	10.38	41.18	74.00	-32.82
7311.000	Average	25.92	17.97	43.89	54.00	-10.11
7311.000	Peak	35.07	17.97	53.04	74.00	-20.96

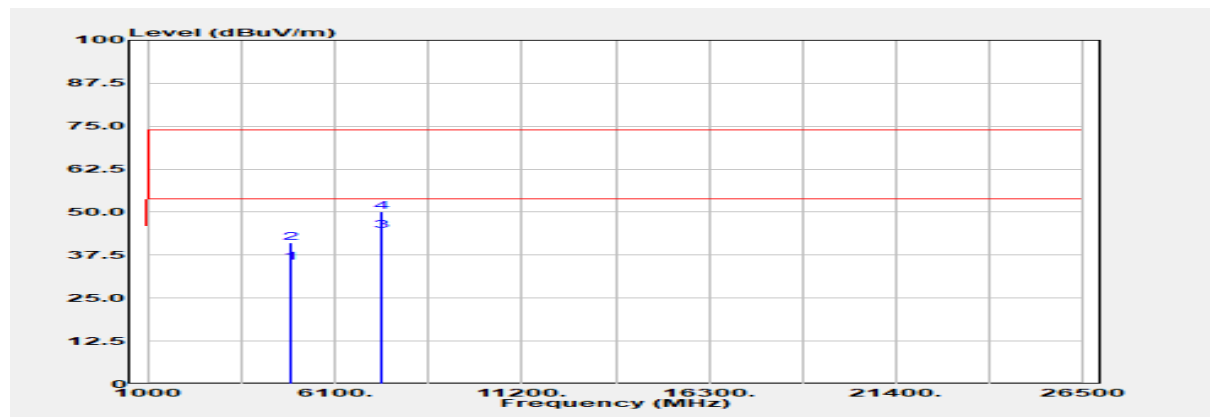
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :21.9/62
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	25.29	10.12	35.41	54.00	-18.59
4924.000	Peak	30.95	10.12	41.07	74.00	-32.93
7386.000	Average	26.47	18.22	44.69	54.00	-9.31
7386.000	Peak	31.98	18.22	50.20	74.00	-23.80

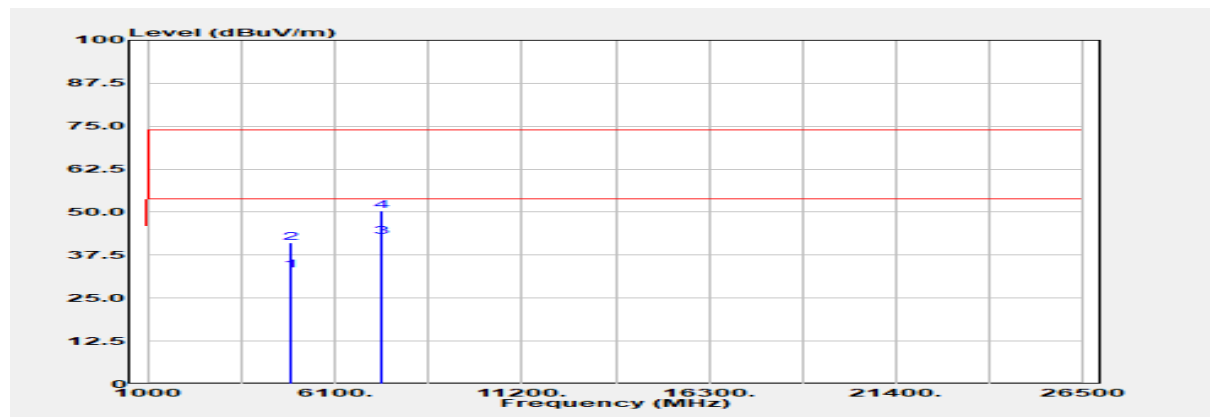
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :21.9/62
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	22.89	10.12	33.01	54.00	-20.99
4924.000	Peak	30.91	10.12	41.03	74.00	-32.97
7386.000	Average	24.56	18.22	42.78	54.00	-11.22
7386.000	Peak	32.11	18.22	50.32	74.00	-23.68

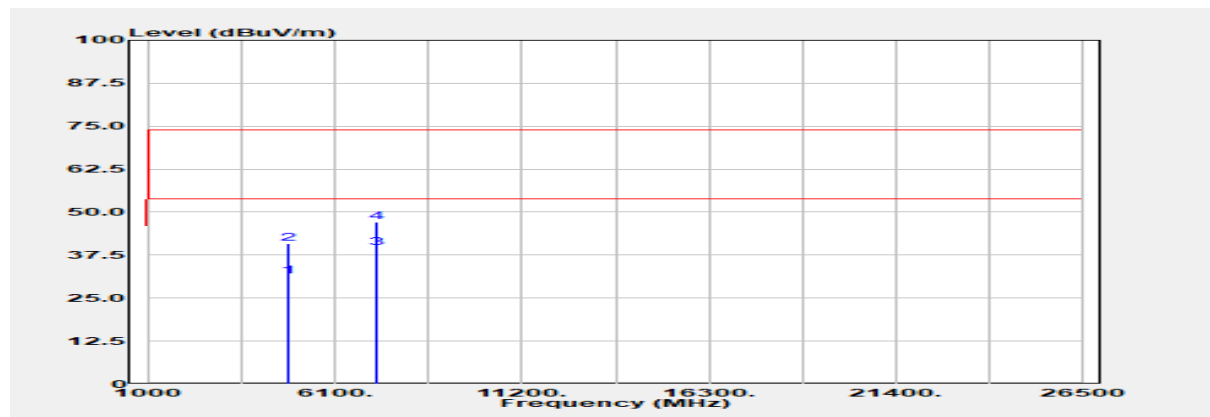
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Report Number :E2/2021/30018
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-05
Temp./Humi. :23.8/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.77	10.61	31.38	54.00	-22.62
4824.000	Peak	30.24	10.61	40.85	74.00	-33.15
7236.000	Average	22.03	17.62	39.65	54.00	-14.35
7236.000	Peak	29.54	17.62	47.16	74.00	-26.84

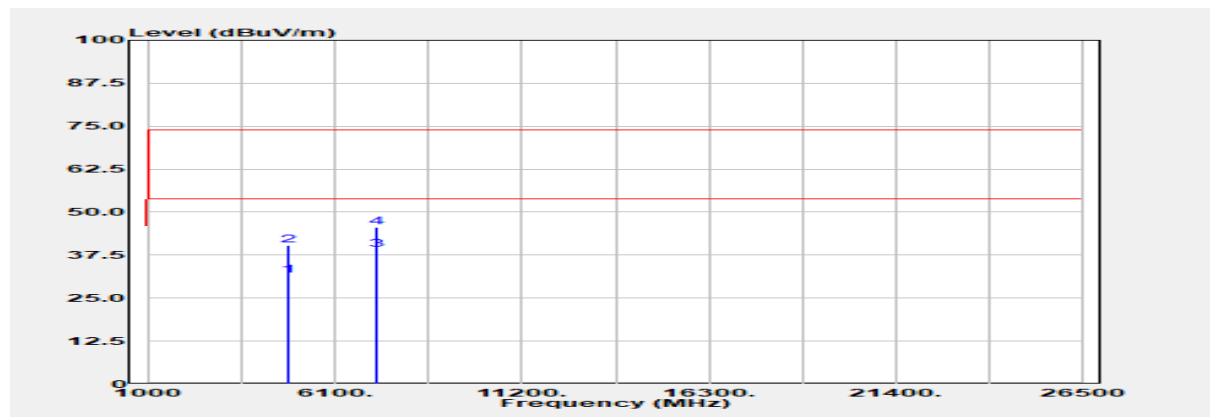
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.8/65
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.97	10.61	31.58	54.00	-22.42
4824.000	Peak	29.77	10.61	40.38	74.00	-33.62
7236.000	Average	21.41	17.62	39.03	54.00	-14.97
7236.000	Peak	27.97	17.62	45.59	74.00	-28.41

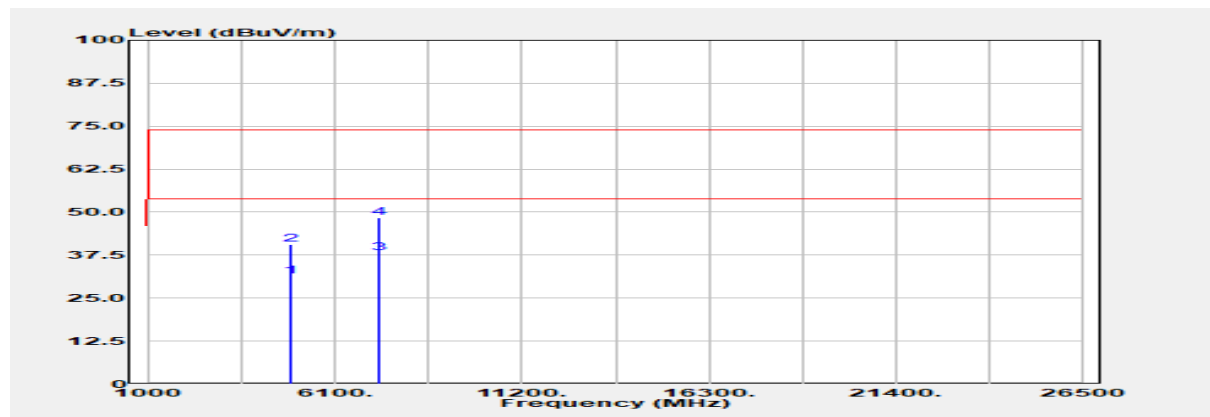
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.8/65
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	20.95	10.38	31.33	54.00	-22.67
4874.000	Peak	30.14	10.38	40.51	74.00	-33.49
7311.000	Average	20.23	17.97	38.20	54.00	-15.80
7311.000	Peak	30.43	17.97	48.41	74.00	-25.59

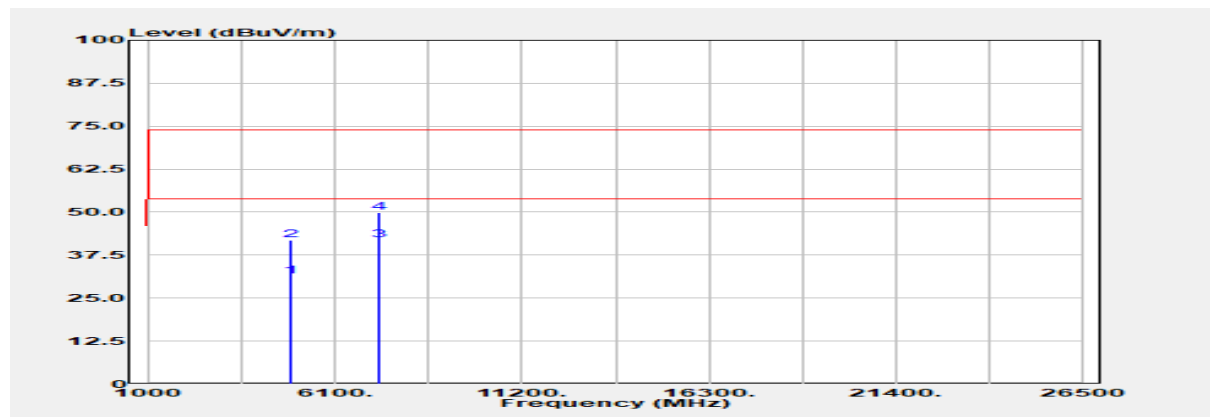
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.8/65
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.91	10.38	31.29	54.00	-22.71
4874.000	Peak	31.36	10.38	41.74	74.00	-32.26
7311.000	Average	23.95	17.97	41.92	54.00	-12.08
7311.000	Peak	32.03	17.97	50.00	74.00	-24.00

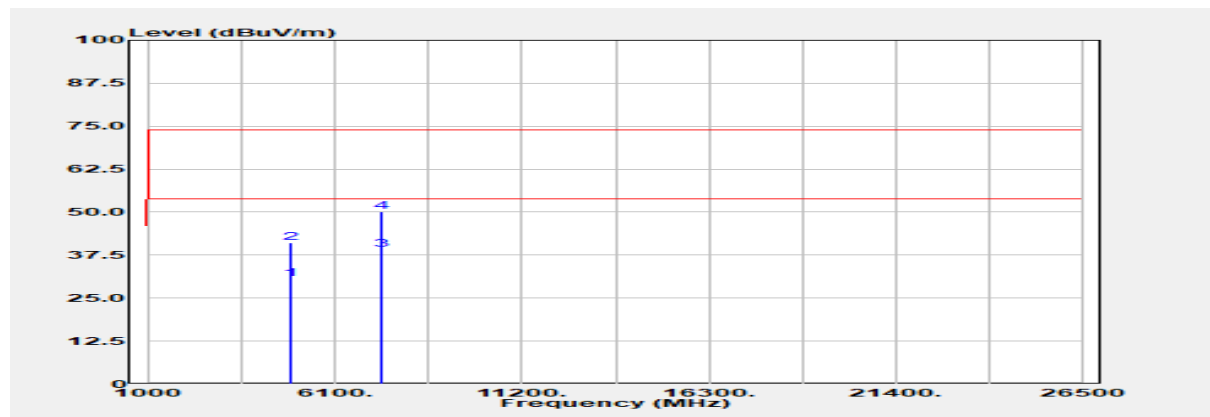
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Report Number :E2/2021/30018
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-05
Temp./Humi. :23.8/65
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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	20.55	10.12	30.67	54.00	-23.33
4924.000	Peak	30.97	10.12	41.09	74.00	-32.91
7386.000	Average	20.77	18.22	38.99	54.00	-15.01
7386.000	Peak	31.80	18.22	50.02	74.00	-23.98

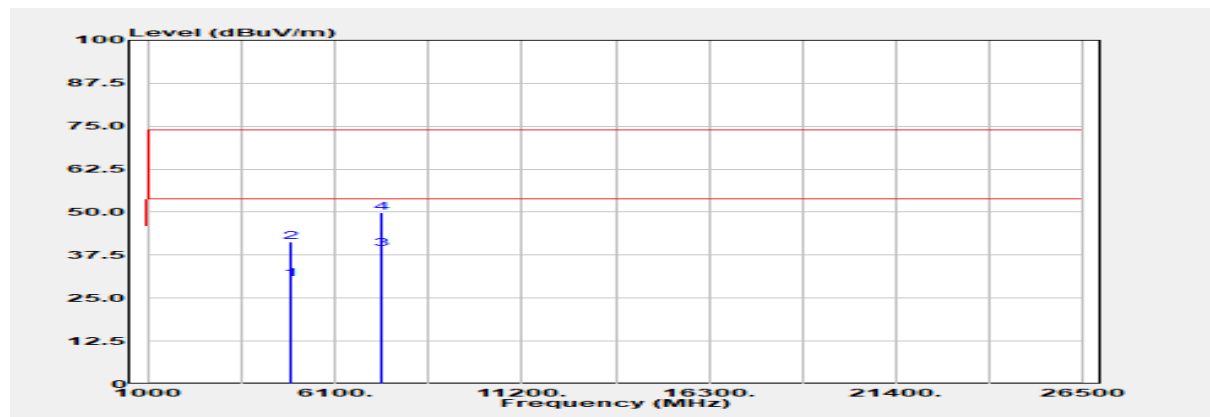
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :23.8/65
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.58	10.12	30.70	54.00	-23.30
4924.000	Peak	31.28	10.12	41.40	74.00	-32.60
7386.000	Average	21.25	18.22	39.47	54.00	-14.53
7386.000	Peak	31.55	18.22	49.77	74.00	-24.23

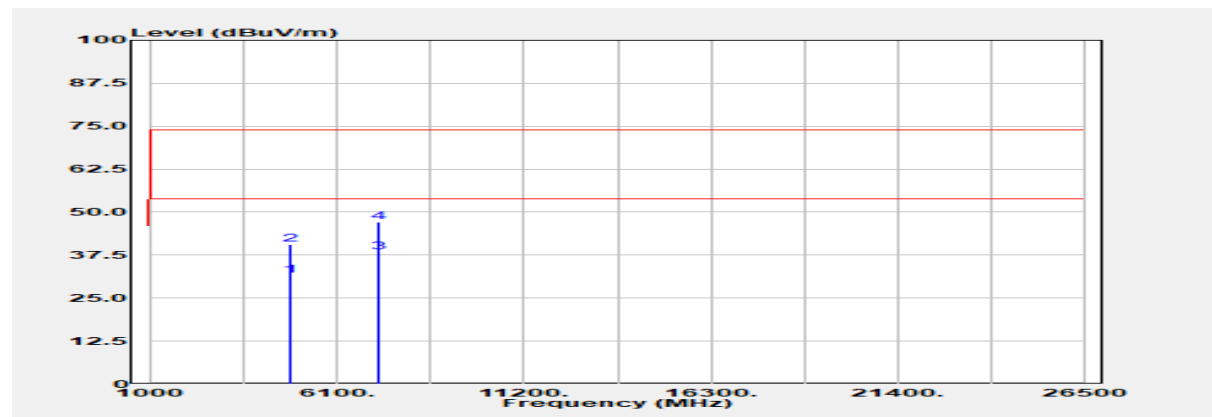
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :24.7/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.89	10.61	31.50	54.00	-22.50
4824.000	Peak	30.09	10.61	40.69	74.00	-33.31
7236.000	Average	20.70	17.62	38.32	54.00	-15.68
7236.000	Peak	29.40	17.62	47.02	74.00	-26.98

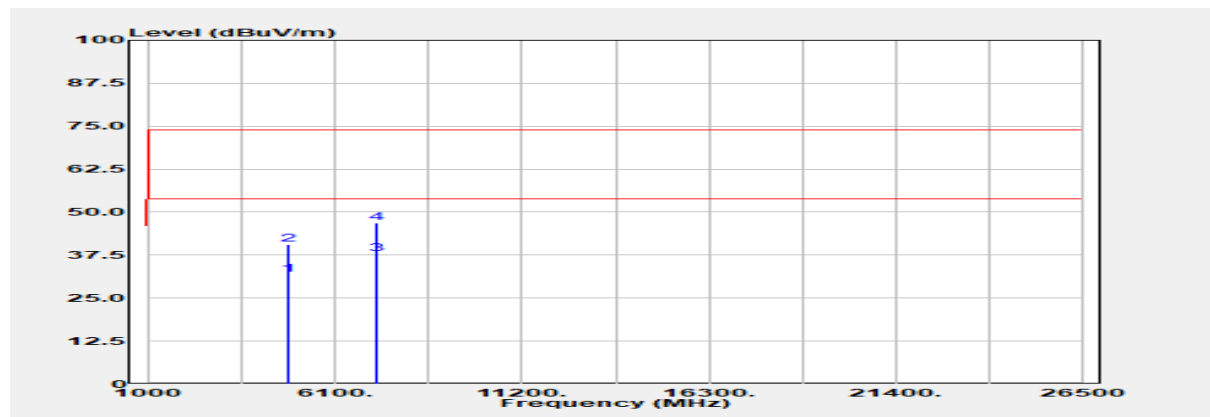
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :24.7/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	21.33	10.61	31.94	54.00	-22.06
4824.000	Peak	30.12	10.61	40.72	74.00	-33.28
7236.000	Average	20.29	17.62	37.91	54.00	-16.09
7236.000	Peak	29.19	17.62	46.81	74.00	-27.19

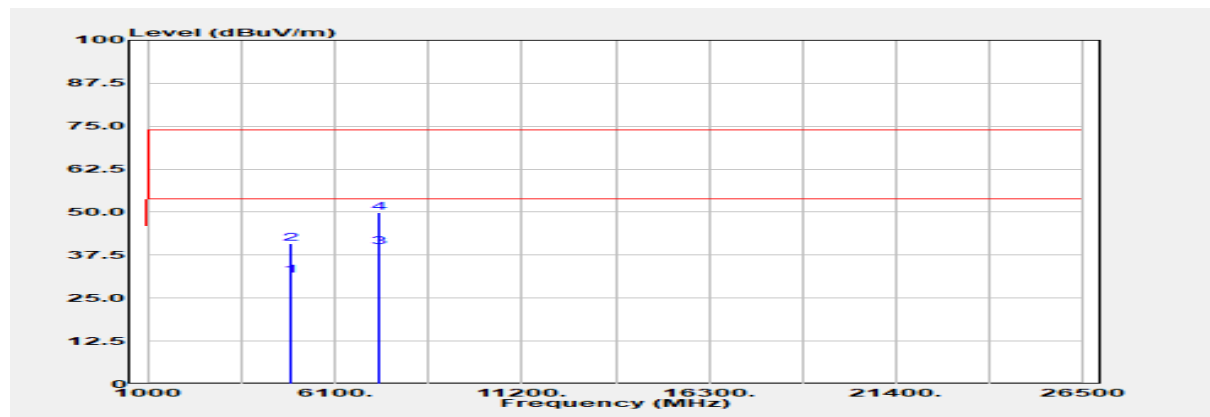
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Report Number :E2/2021/30018
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-05
Temp./Humi. :24.7/58
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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	21.18	10.38	31.56	54.00	-22.44
4874.000	Peak	30.46	10.38	40.84	74.00	-33.16
7311.000	Average	21.89	17.97	39.86	54.00	-14.14
7311.000	Peak	31.82	17.97	49.80	74.00	-24.20

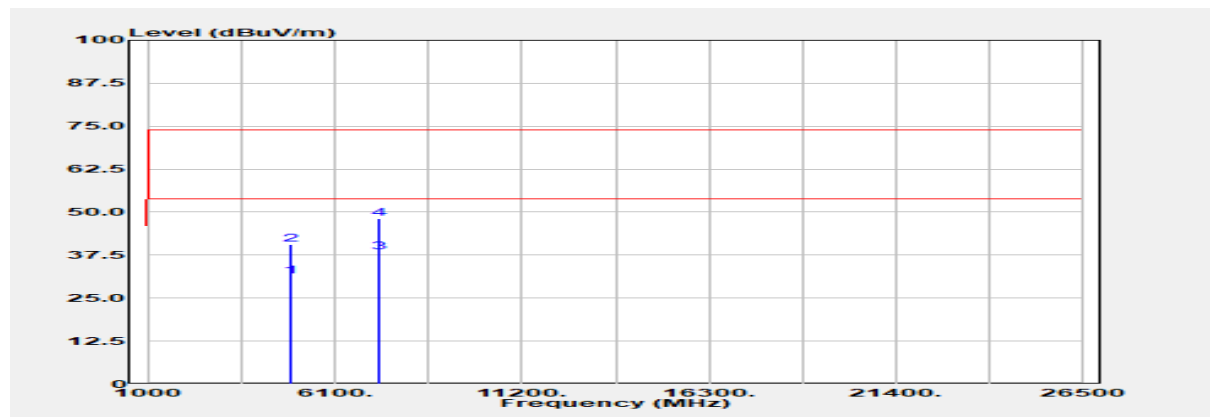
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Report Number :E2/2021/30018
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2021-05-05
Temp./Humi. :24.7/58
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



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	20.96	10.38	31.34	54.00	-22.66
4874.000	Peak	30.23	10.38	40.60	74.00	-33.40
7311.000	Average	20.26	17.97	38.23	54.00	-15.77
7311.000	Peak	30.16	17.97	48.13	74.00	-25.87

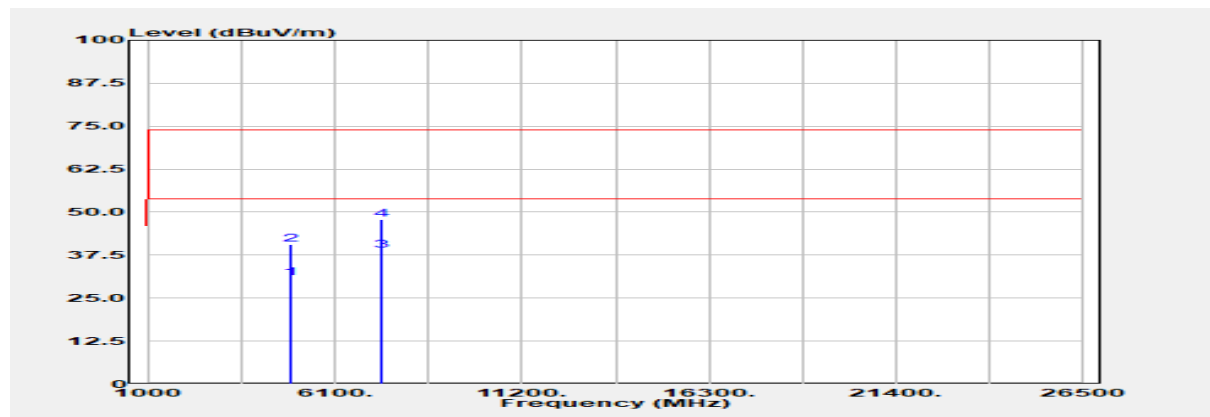
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :24.7/58
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	20.74	10.12	30.86	54.00	-23.14
4924.000	Peak	30.59	10.12	40.71	74.00	-33.29
7386.000	Average	20.57	18.22	38.79	54.00	-15.21
7386.000	Peak	29.62	18.22	47.83	74.00	-26.17

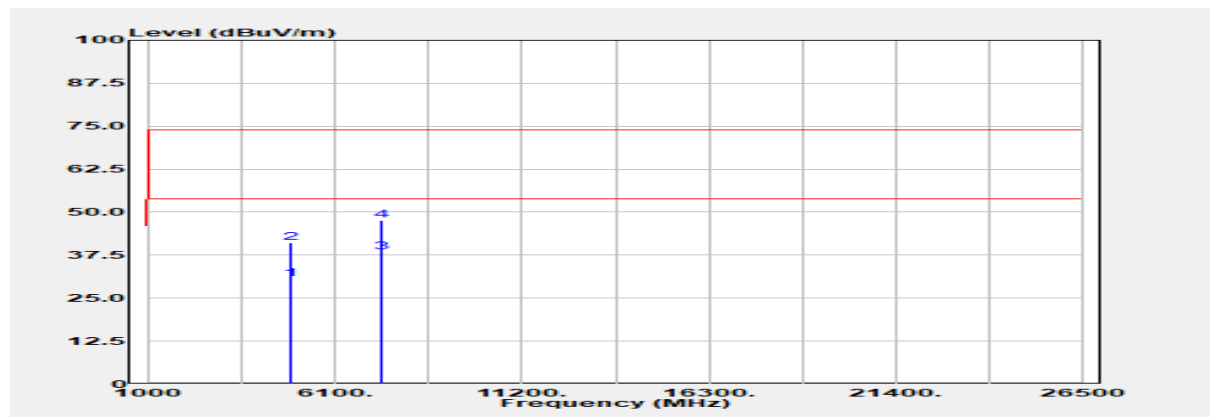
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2021-05-05
 Temp./Humi. :24.7/58
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.57	10.12	30.69	54.00	-23.31
4924.000	Peak	30.90	10.12	41.02	74.00	-32.98
7386.000	Average	20.08	18.22	38.30	54.00	-15.70
7386.000	Peak	29.51	18.22	47.73	74.00	-26.27

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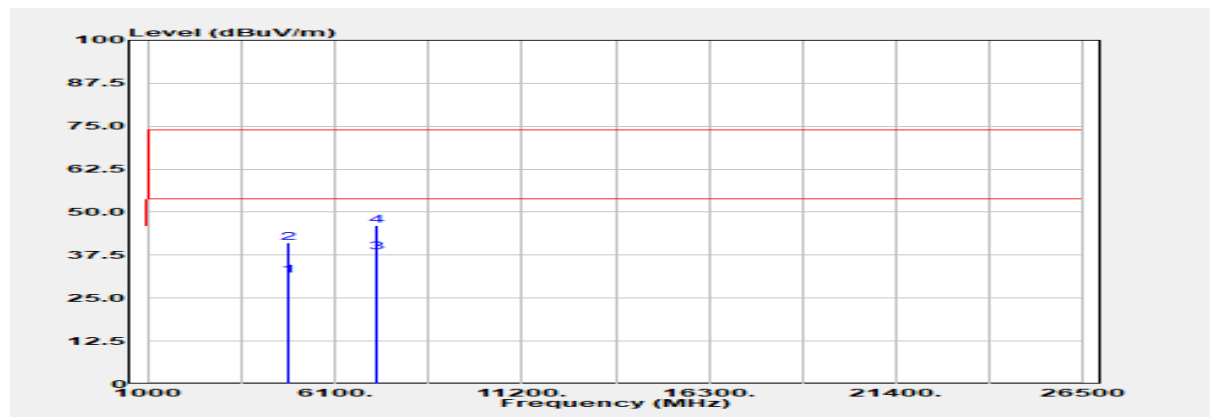
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11.7.9 Dipole Ant.

Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.99	10.61	31.60	54.00	-22.40
4824.000	Peak	30.50	10.61	41.11	74.00	-32.89
7236.000	Average	20.72	17.62	38.34	54.00	-15.66
7236.000	Peak	28.47	17.62	46.09	74.00	-27.91

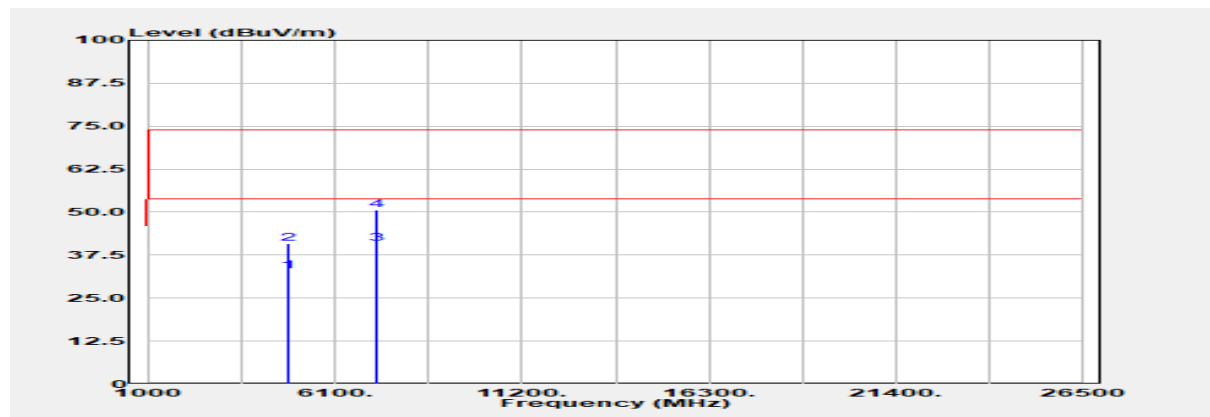
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	22.33	10.61	32.94	54.00	-21.06
4824.000	Peak	30.27	10.61	40.88	74.00	-33.12
7236.000	Average	23.18	17.62	40.80	54.00	-13.20
7236.000	Peak	32.95	17.62	50.57	74.00	-23.43

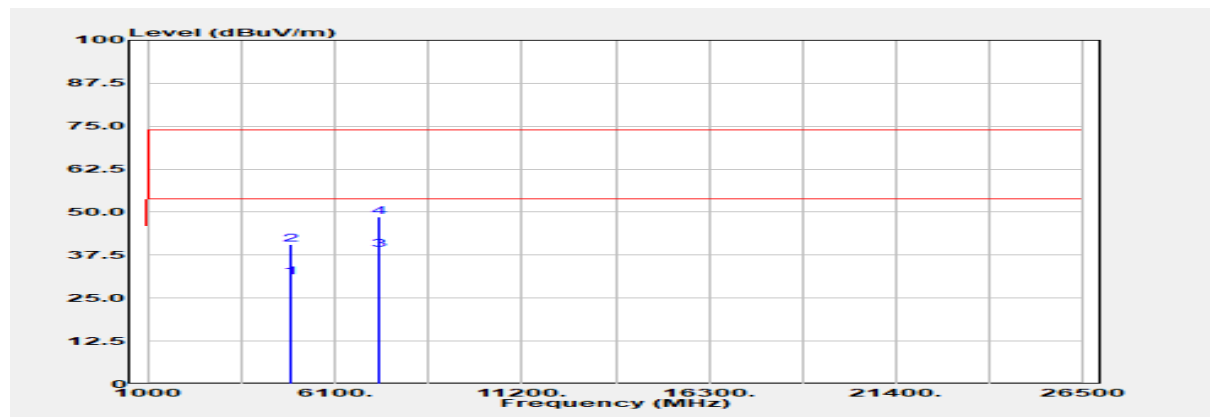
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	20.65	10.38	31.03	54.00	-22.97
4874.000	Peak	30.14	10.38	40.51	74.00	-33.49
7311.000	Average	21.11	17.97	39.08	54.00	-14.92
7311.000	Peak	30.53	17.97	48.50	74.00	-25.50

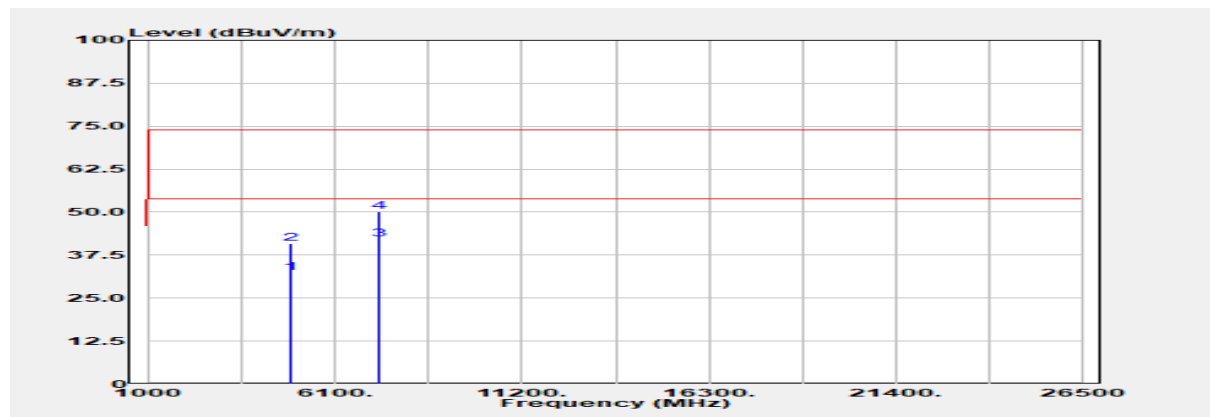
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	21.89	10.38	32.27	54.00	-21.73
4874.000	Peak	30.46	10.38	40.84	74.00	-33.16
7311.000	Average	24.17	17.97	42.14	54.00	-11.86
7311.000	Peak	32.18	17.97	50.15	74.00	-23.85

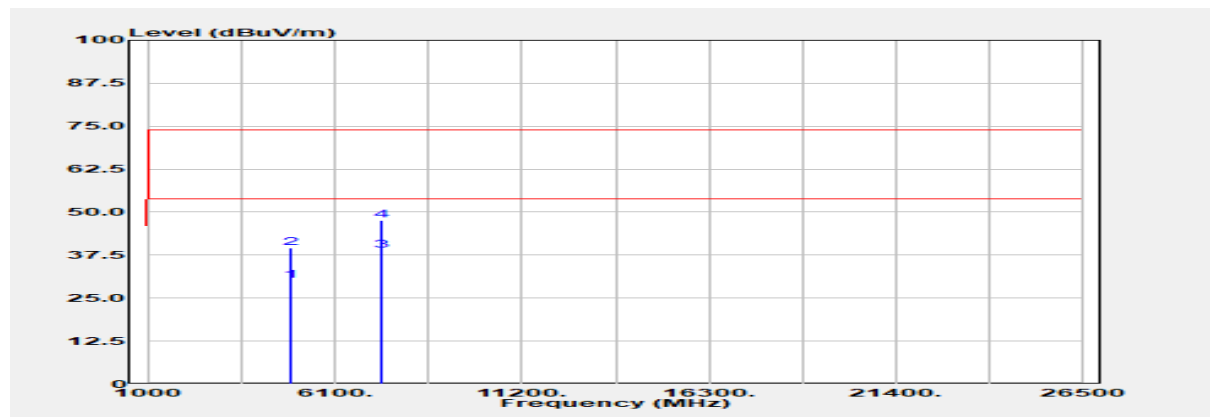
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	20.05	10.12	30.17	54.00	-23.83
4924.000	Peak	29.37	10.12	39.49	74.00	-34.51
7386.000	Average	20.54	18.22	38.76	54.00	-15.24
7386.000	Peak	29.52	18.22	47.74	74.00	-26.26

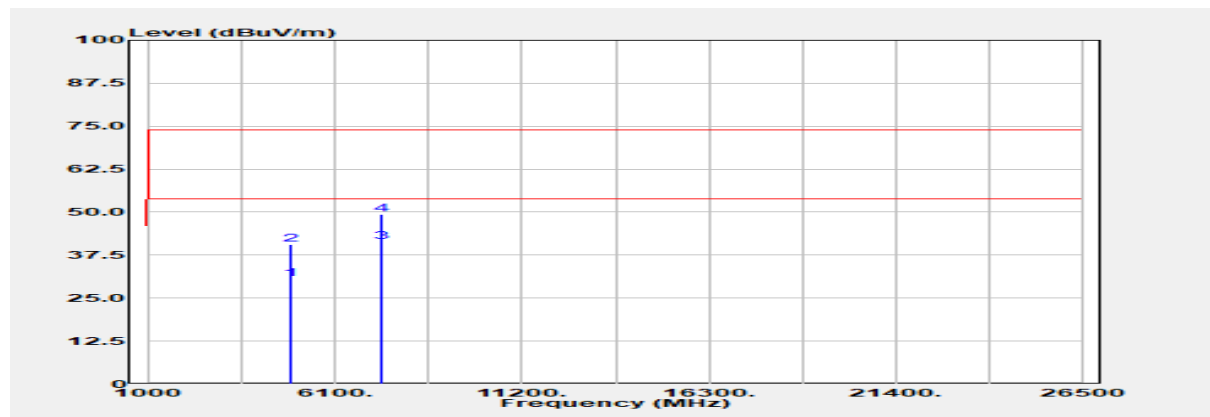
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Report Number :E2/2021/30018
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.6/56
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.57	10.12	30.69	54.00	-23.31
4924.000	Peak	30.51	10.12	40.63	74.00	-33.37
7386.000	Average	23.20	18.22	41.42	54.00	-12.58
7386.000	Peak	31.06	18.22	49.28	74.00	-24.72

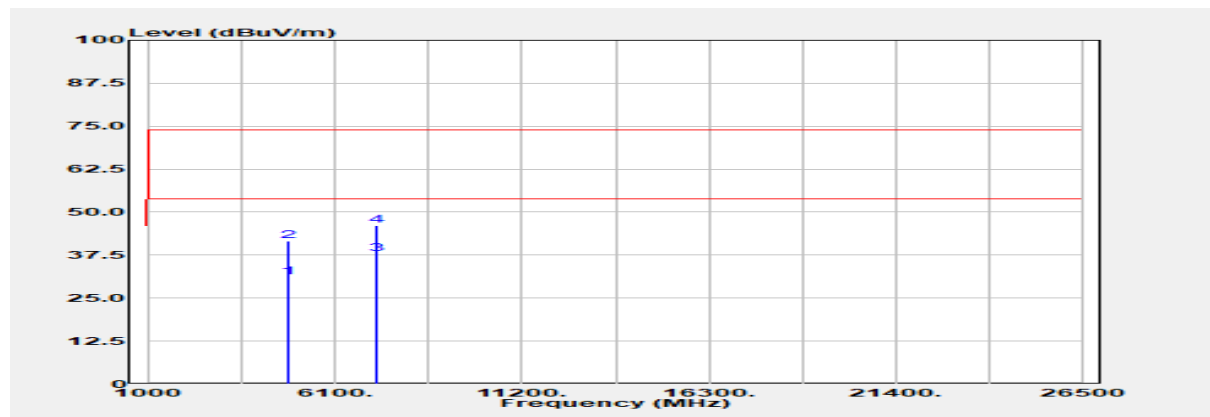
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :21.8/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.40	10.61	31.01	54.00	-22.99
4824.000	Peak	30.91	10.61	41.52	74.00	-32.48
7236.000	Average	20.14	17.62	37.76	54.00	-16.24
7236.000	Peak	28.53	17.62	46.16	74.00	-27.84

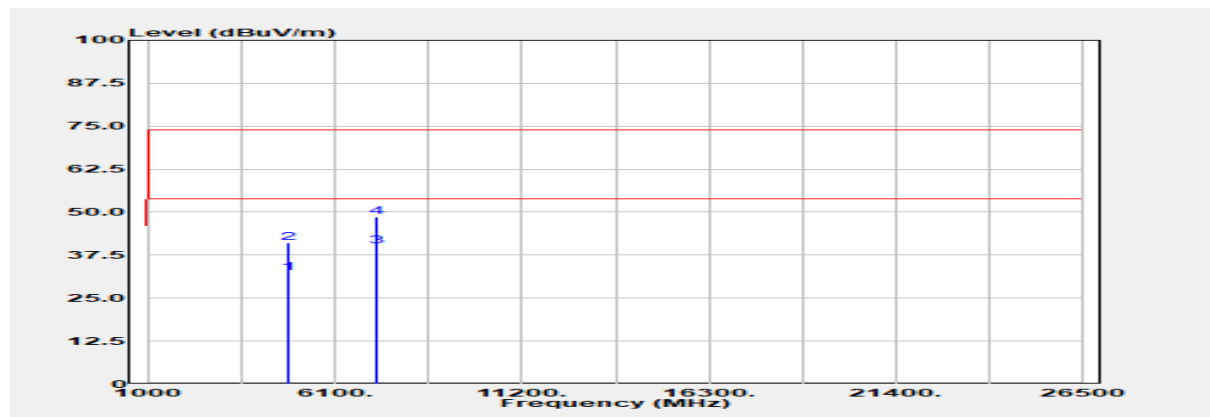
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :21.8/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	21.73	10.61	32.34	54.00	-21.66
4824.000	Peak	30.38	10.61	40.98	74.00	-33.02
7236.000	Average	22.47	17.62	40.09	54.00	-13.91
7236.000	Peak	31.11	17.62	48.73	74.00	-25.27

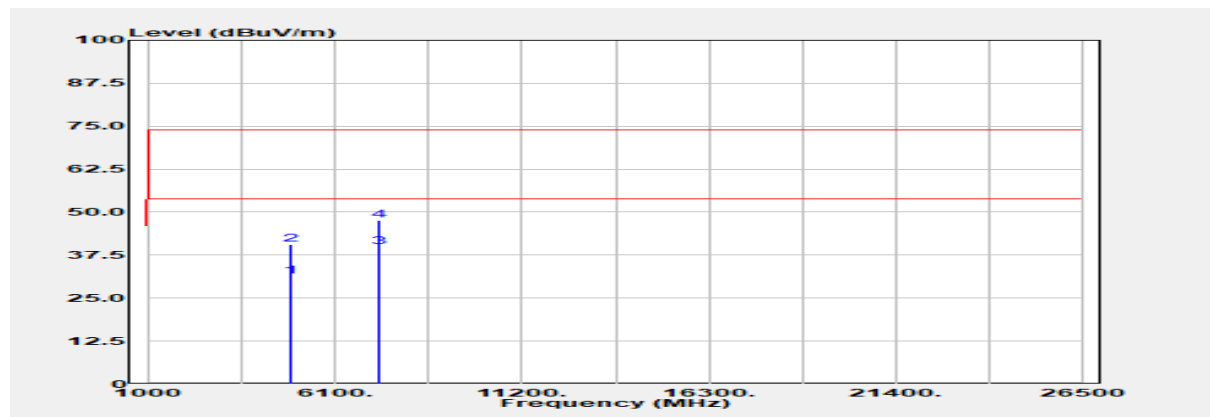
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Report Number :E2/2021/30018
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-05-04
Temp./Humi. :21.8/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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	20.93	10.38	31.31	54.00	-22.69
4874.000	Peak	30.29	10.38	40.67	74.00	-33.33
7311.000	Average	21.87	17.97	39.84	54.00	-14.16
7311.000	Peak	29.60	17.97	47.57	74.00	-26.43

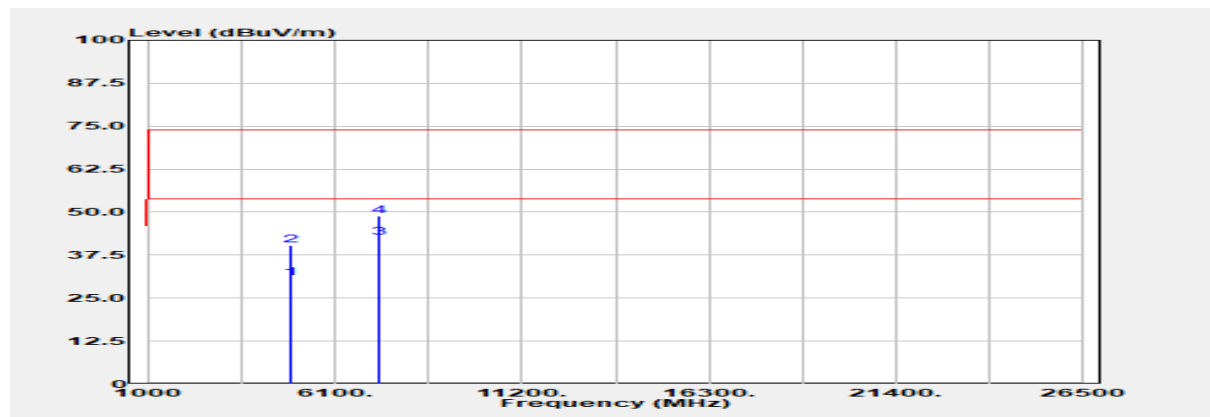
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :21.8/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.55	10.38	30.93	54.00	-23.07
4874.000	Peak	29.89	10.38	40.27	74.00	-33.73
7311.000	Average	24.60	17.97	42.57	54.00	-11.43
7311.000	Peak	30.80	17.97	48.77	74.00	-25.23

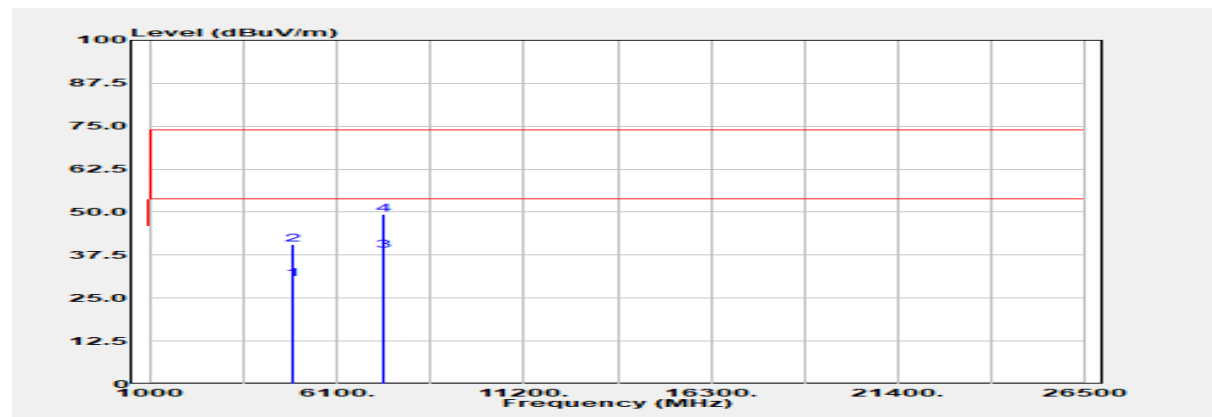
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :21.8/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	20.39	10.12	30.51	54.00	-23.49
4924.000	Peak	30.42	10.12	40.54	74.00	-33.46
7386.000	Average	20.75	18.22	38.97	54.00	-15.03
7386.000	Peak	31.16	18.22	49.38	74.00	-24.62

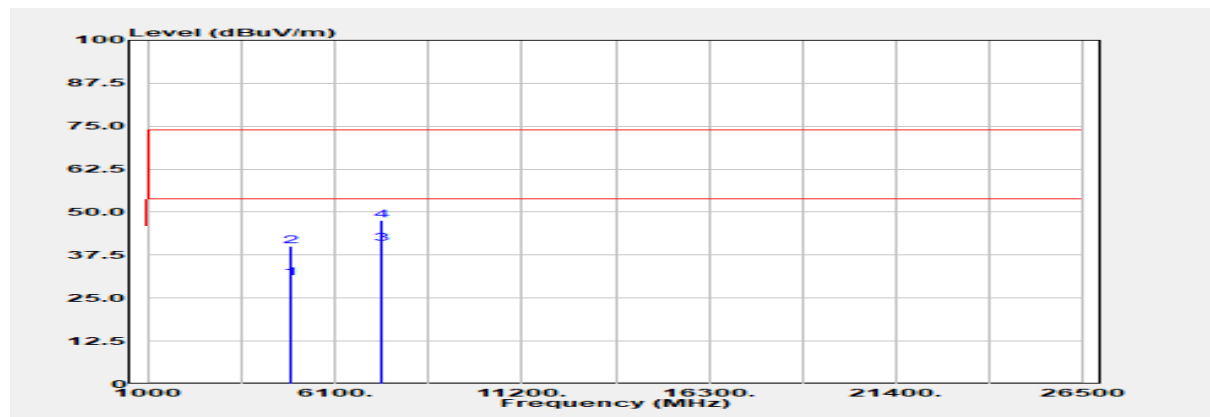
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Report Number :E2/2021/30018
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :21.8/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.63	10.12	30.75	54.00	-23.25
4924.000	Peak	29.91	10.12	40.02	74.00	-33.98
7386.000	Average	22.55	18.22	40.77	54.00	-13.23
7386.000	Peak	29.48	18.22	47.70	74.00	-26.30

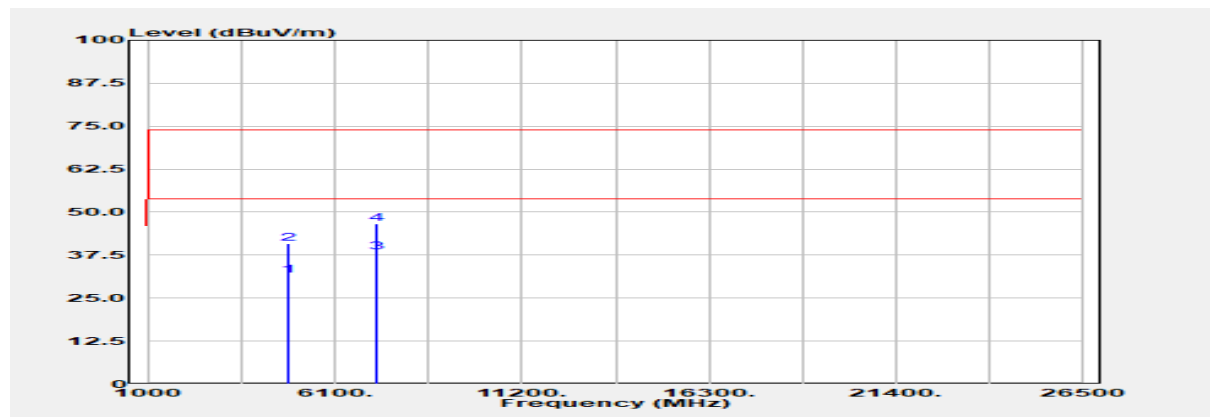
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :24.4/51
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.94	10.61	31.55	54.00	-22.45
4824.000	Peak	30.13	10.61	40.73	74.00	-33.27
7236.000	Average	20.79	17.62	38.41	54.00	-15.59
7236.000	Peak	29.01	17.62	46.63	74.00	-27.37

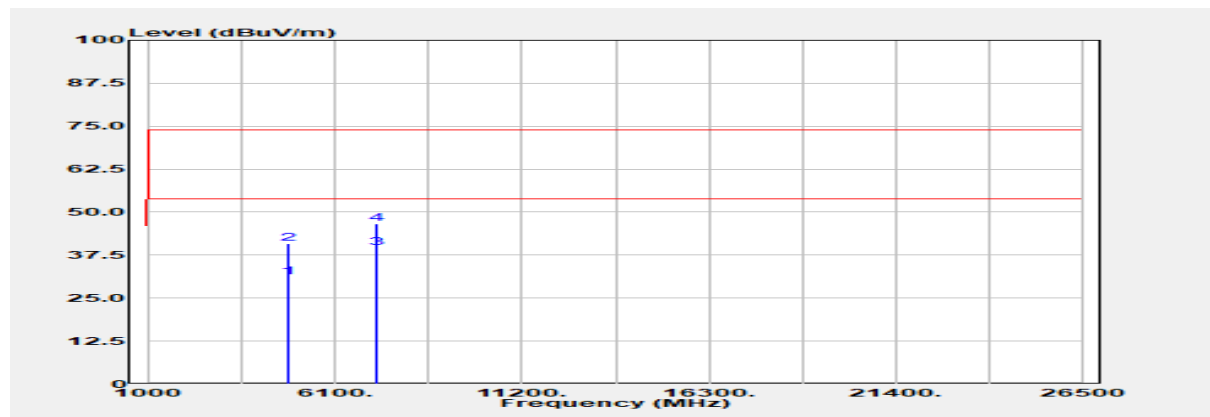
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :24.4/51
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	20.53	10.61	31.14	54.00	-22.86
4824.000	Peak	30.21	10.61	40.82	74.00	-33.18
7236.000	Average	21.95	17.62	39.57	54.00	-14.43
7236.000	Peak	28.93	17.62	46.55	74.00	-27.45

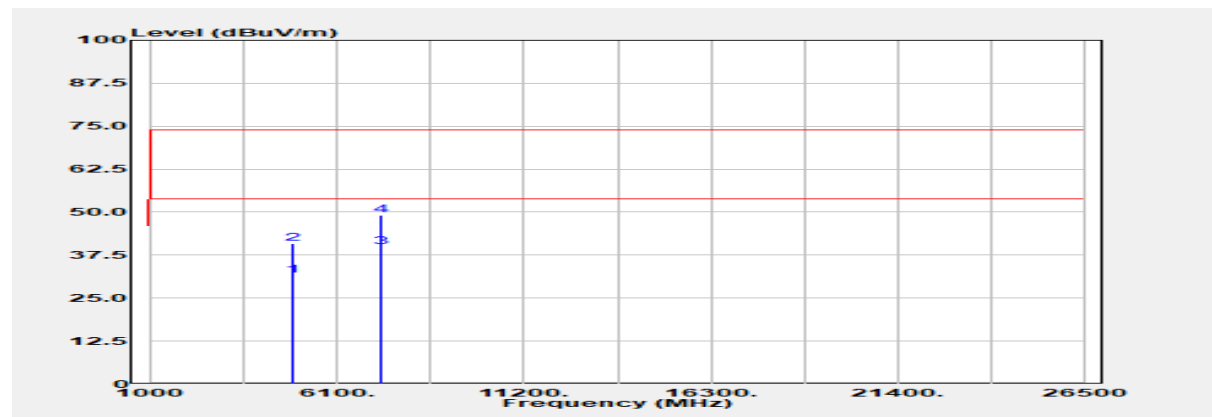
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :24.4/51
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



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	21.12	10.38	31.50	54.00	-22.50
4874.000	Peak	30.58	10.38	40.96	74.00	-33.04
7311.000	Average	21.87	17.97	39.84	54.00	-14.16
7311.000	Peak	31.22	17.97	49.20	74.00	-24.80

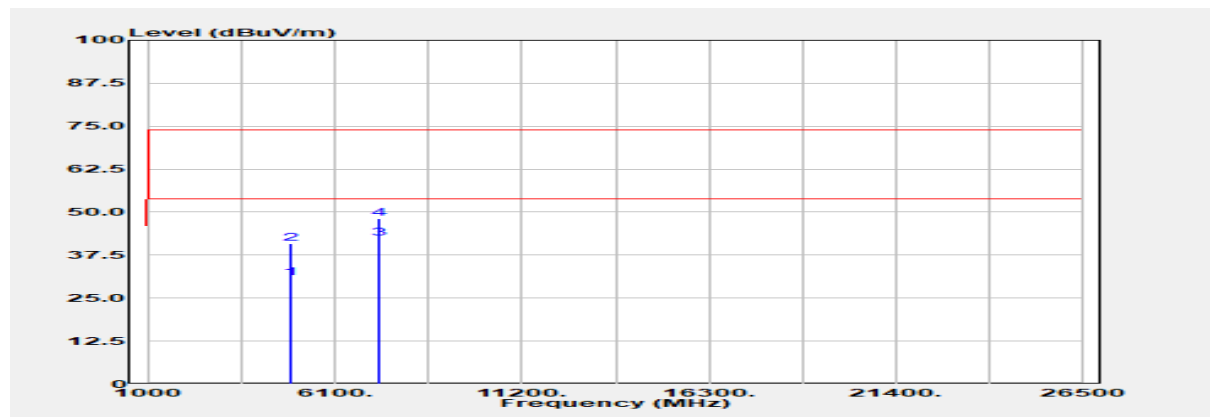
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :24.4/51
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



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	20.53	10.38	30.91	54.00	-23.09
4874.000	Peak	30.35	10.38	40.73	74.00	-33.27
7311.000	Average	24.41	17.97	42.38	54.00	-11.62
7311.000	Peak	30.25	17.97	48.22	74.00	-25.78

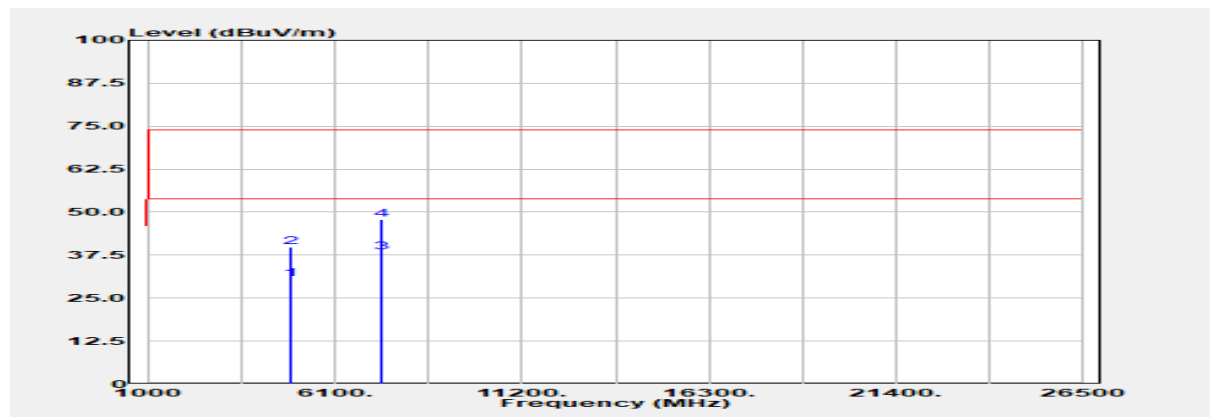
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 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
4924.000	Average	20.55	10.12	30.67	54.00	-23.33
4924.000	Peak	29.83	10.12	39.95	74.00	-34.05
7386.000	Average	20.16	18.22	38.38	54.00	-15.62
7386.000	Peak	29.62	18.22	47.83	74.00	-26.17

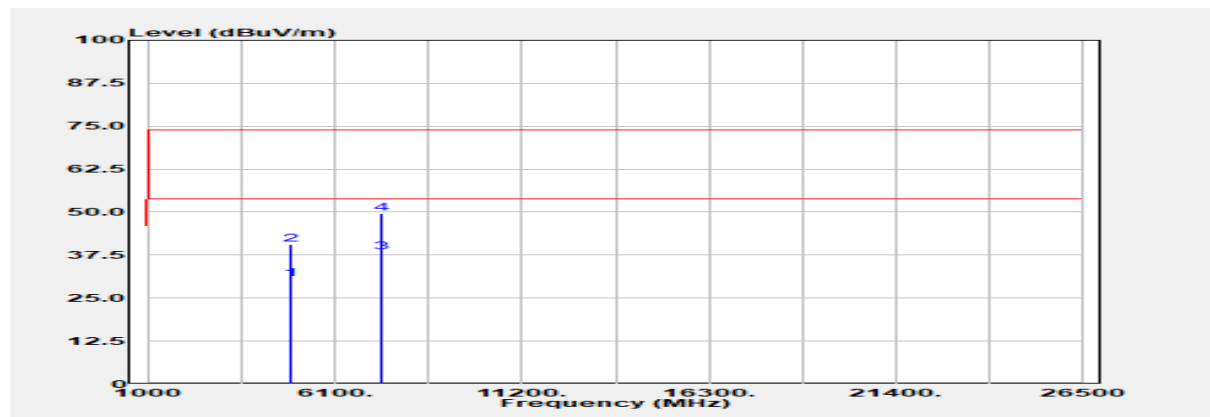
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Report Number :E2/2021/30018
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-05-04
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 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
4924.000	Average	20.56	10.12	30.68	54.00	-23.32
4924.000	Peak	30.50	10.12	40.62	74.00	-33.38
7386.000	Average	20.13	18.22	38.35	54.00	-15.65
7386.000	Peak	31.46	18.22	49.68	74.00	-24.32

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

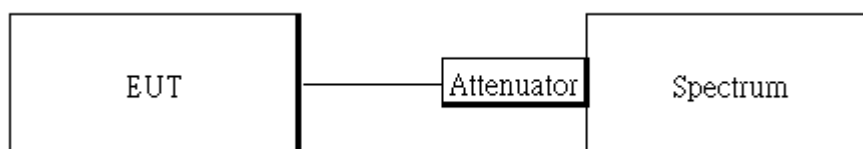
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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 A					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/26/2020	06/25/2021
DC Power Supply	Agilent	E3640A	MY53130054	09/07/2020	09/06/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	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

Gain			3.60	dBi
Mimo support			SISO	
POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-2.24	-2.24	8.00	PASS
2437	-0.31	-0.31	8.00	PASS
2462	-2.54	-2.54	8.00	PASS

Gain			3.60	dBi
Mimo support			SISO	
POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.31	-11.31	8.00	PASS
2427	-8.16	-8.16	8.00	PASS
2437	-8.42	-8.42	8.00	PASS
2447	-8.3	-8.30	8.00	PASS
2462	-11.31	-11.31	8.00	PASS

Gain			3.60	dBi
Mimo support			SISO	
POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.34	-11.34	8.00	PASS
2427	-8.88	-8.88	8.00	PASS
2437	-7.96	-7.96	8.00	PASS
2447	-8.74	-8.74	8.00	PASS
2462	-11.33	-11.33	8.00	PASS

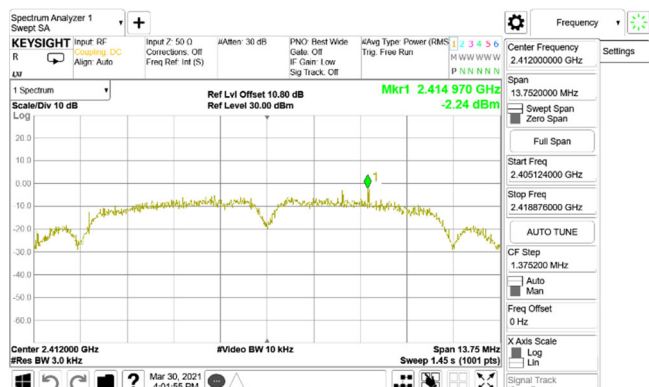
**Refer to next page for plots*

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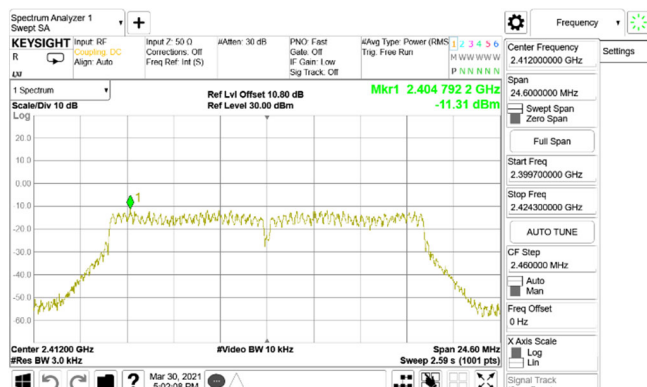
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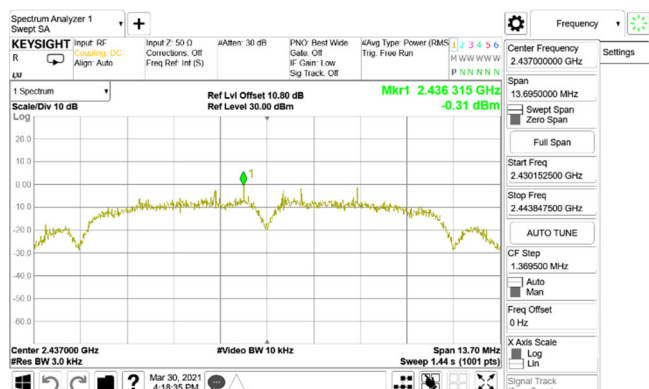
Power Density_802.11b_20MHz_Chain0_2412MHz



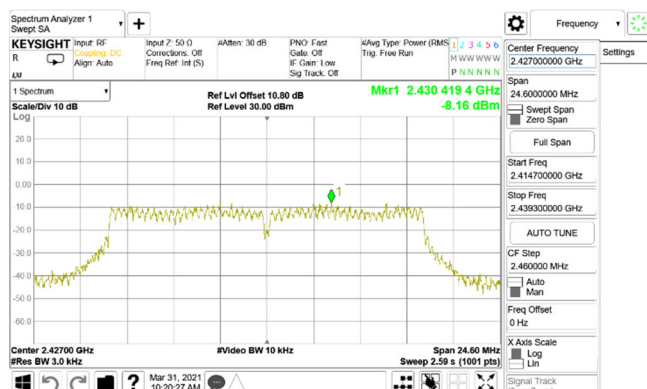
Power Density_802.11g_20MHz_Chain0_2412MHz



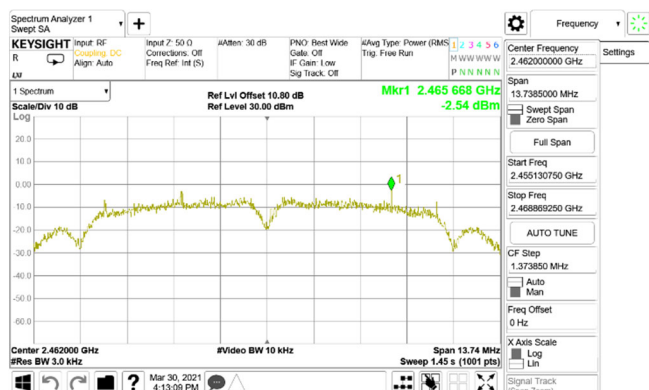
Power Density_802.11b_20MHz_Chain0_2437MHz



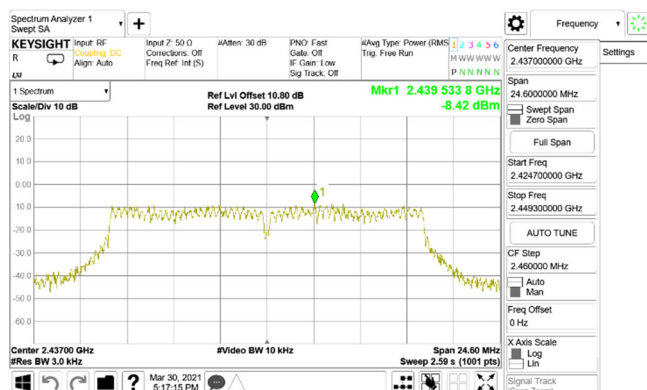
Power Density_802.11g_20MHz_Chain0_2427MHz



Power Density_802.11b_20MHz_Chain0_2462MHz



Power Density_802.11g_20MHz_Chain0_2437MHz



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