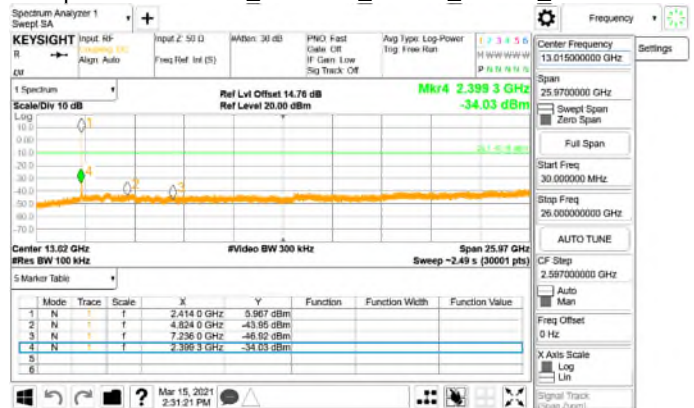


Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11ax_20MHz_Chain0_2412MHz



Spurious Emission_802.11n_20MHz_Chain0_2437MHz



Spurious Emission_802.11ax_20MHz_Chain0_2437MHz



Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11ax_20MHz_Chain0_2462MHz



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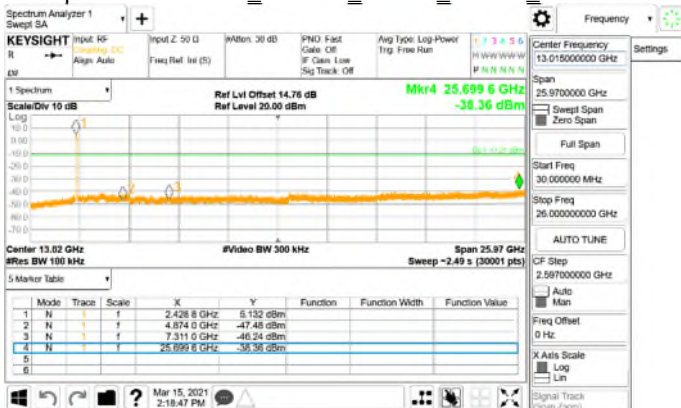
Spurious Emission_802.11n_40MHz_Chain0_2422MHz



Spurious Emission_802.11ax_40MHz_Chain0_2422MHz



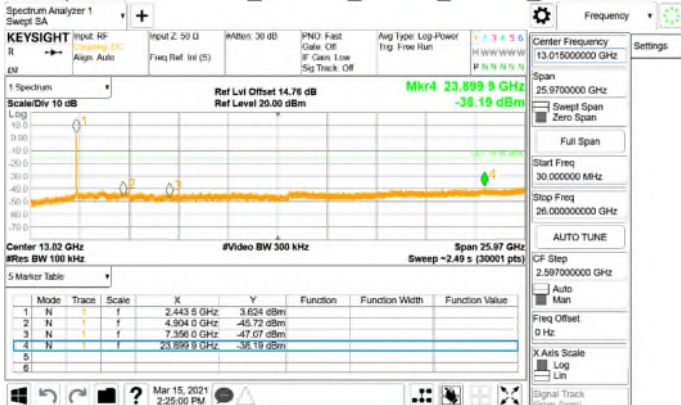
Spurious Emission_802.11n_40MHz_Chain0_2437MHz



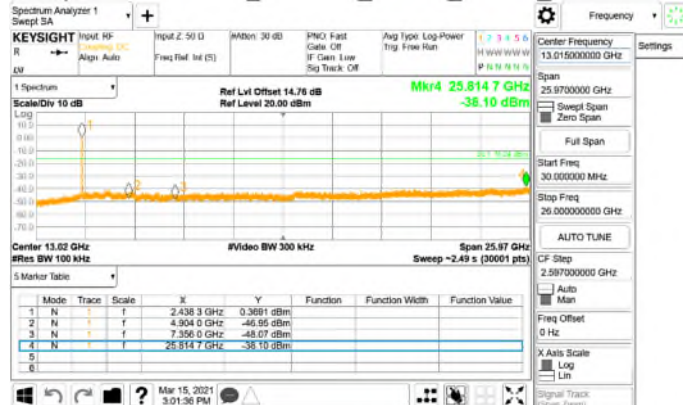
Spurious Emission_802.11ax_40MHz_Chain0_2437MHz



Spurious Emission_802.11n_40MHz_Chain0_2452MHz



Spurious Emission_802.11ax_40MHz_Chain0_2452MHz



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Beamforming

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.08	-11.92
2437	7.65	-12.35
2462	8.24	-11.76

Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	7.05	-12.95
2437	7.21	-12.79
2462	7.74	-12.26

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	5.22	-14.78
2437	6.21	-13.79
2452	0.99	-19.01

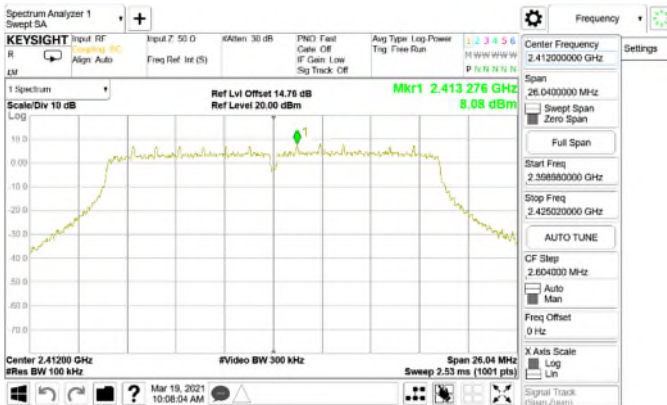
Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	4.67	-15.33
2437	5.04	-14.96
2452	0.7	-19.30

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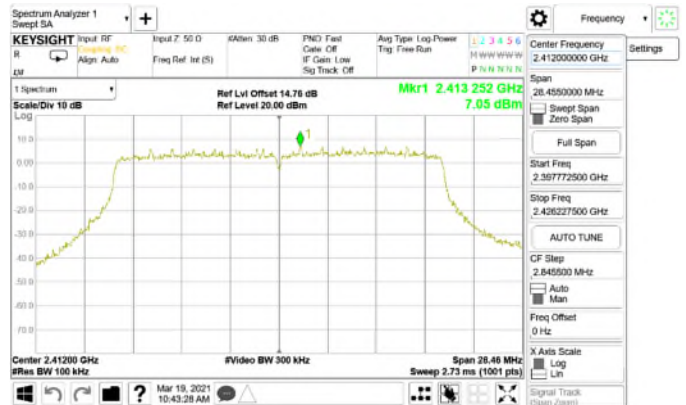
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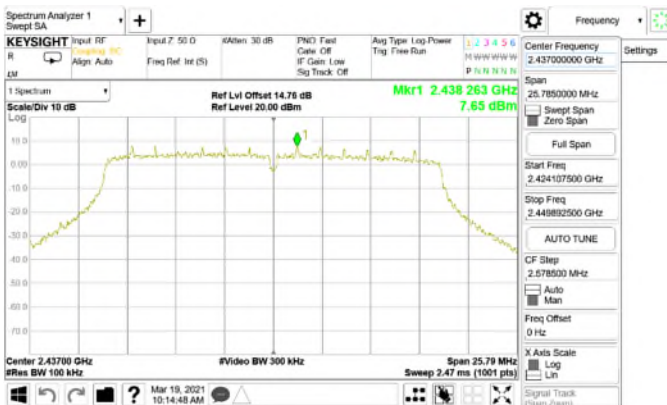
Reference Level_802.11n_20MHz_Chain0_2412MHz



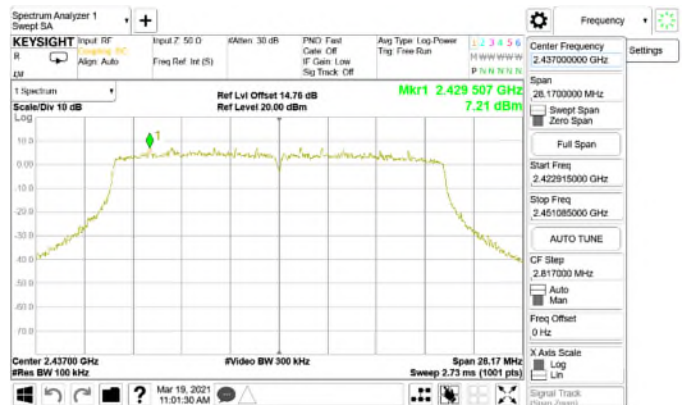
Reference Level_802.11ax_20MHz_Chain0_2412MHz



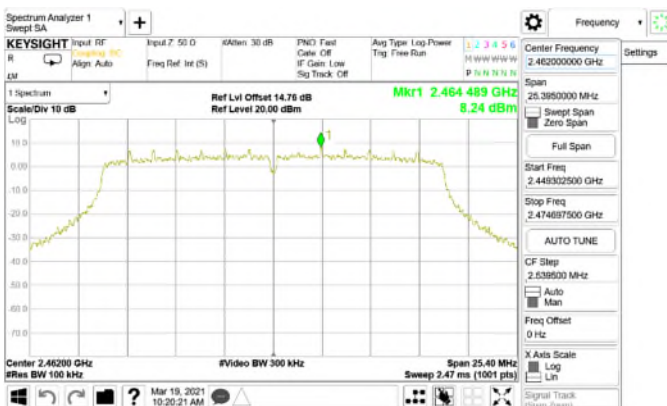
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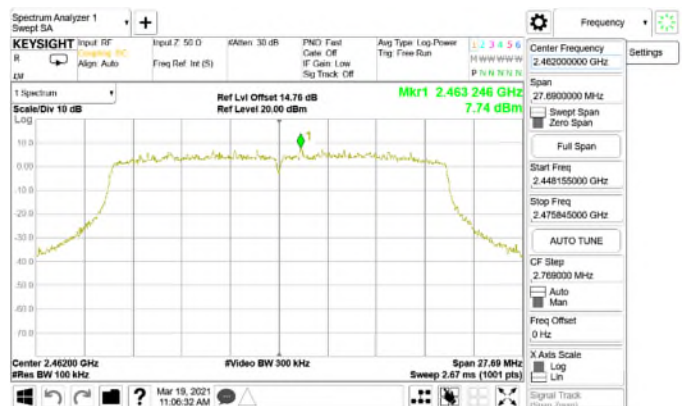
Reference Level_802.11ax_20MHz_Chain0_2437MHz



Reference Level_802.11n_20MHz_Chain0_2462MHz



Reference Level_802.11ax_20MHz_Chain0_2462MHz

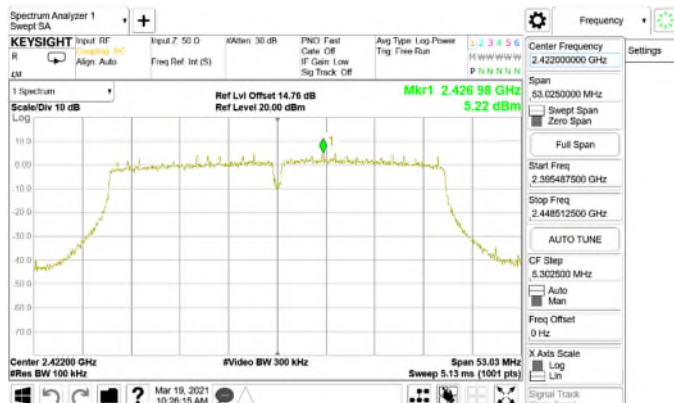


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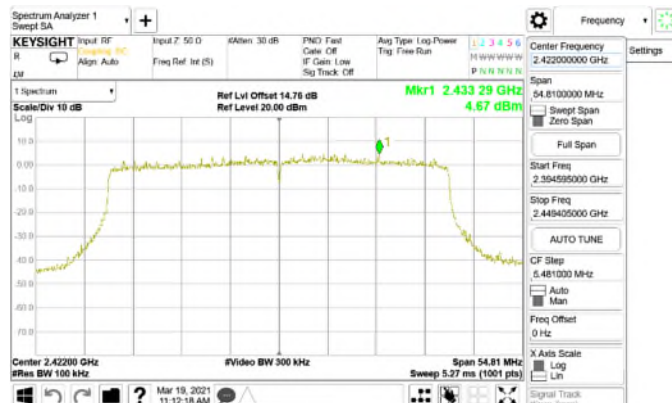
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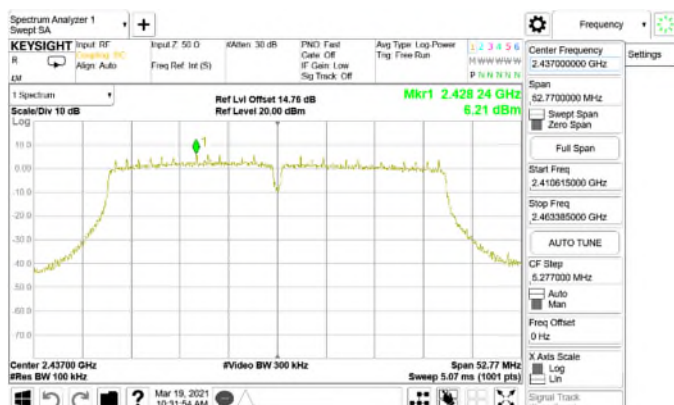
Reference Level_802.11n_40MHz_Chain0_2422MHz



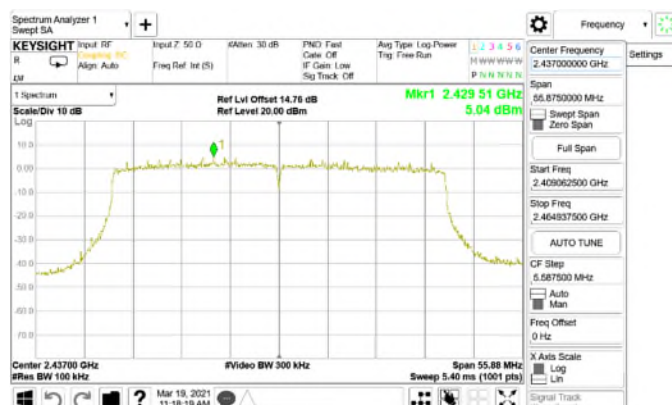
Reference Level_802.11ax_40MHz_Chain0_2422MHz



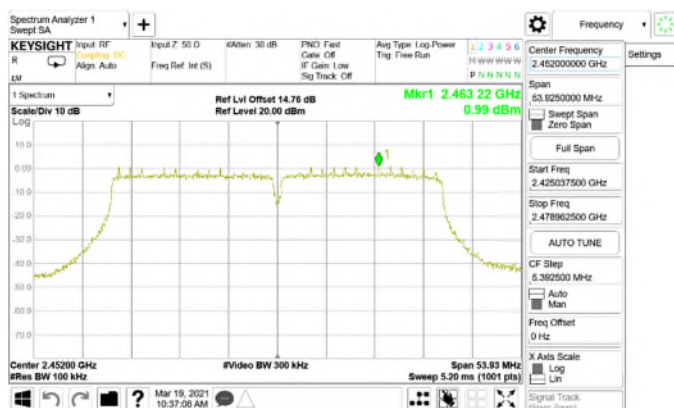
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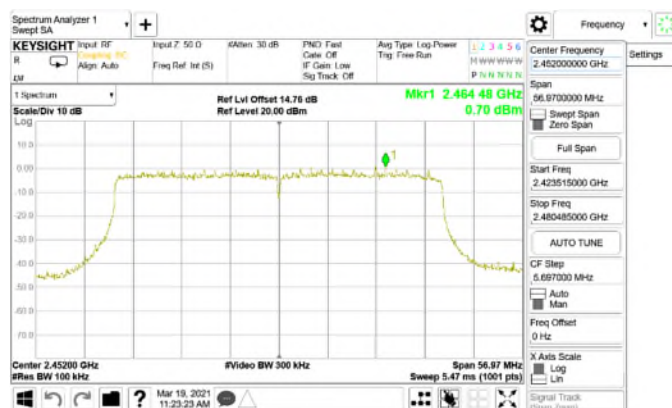
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Reference Level_802.11n_40MHz_Chain0_2452MHz



Reference Level_802.11ax_40MHz_Chain0_2452MHz

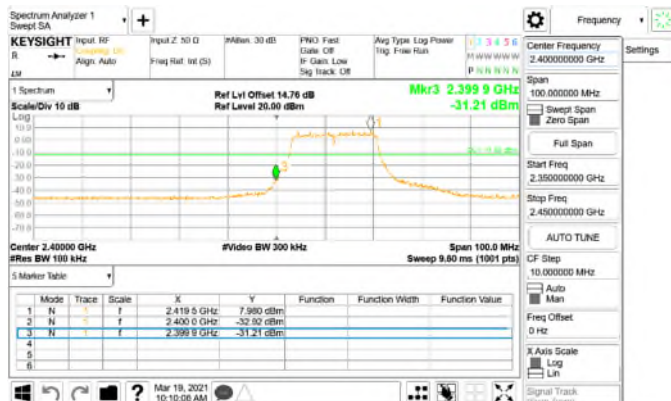


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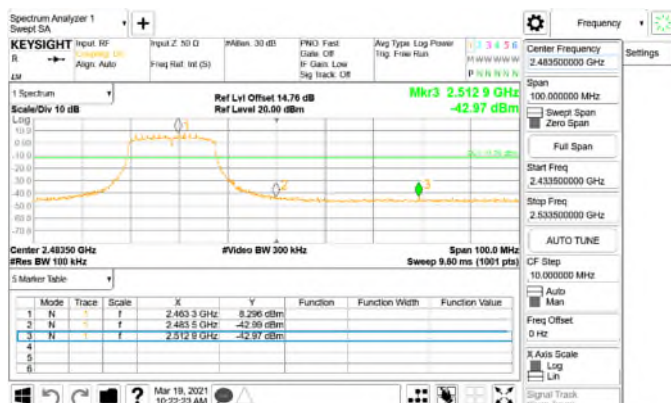
Bandedge_802.11n_20MHz_Chain0_2412MHz



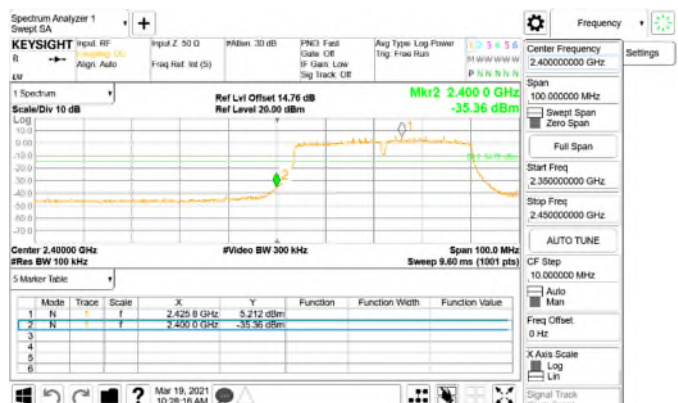
Bandedge_802.11ax_20MHz_Chain0_2462MHz



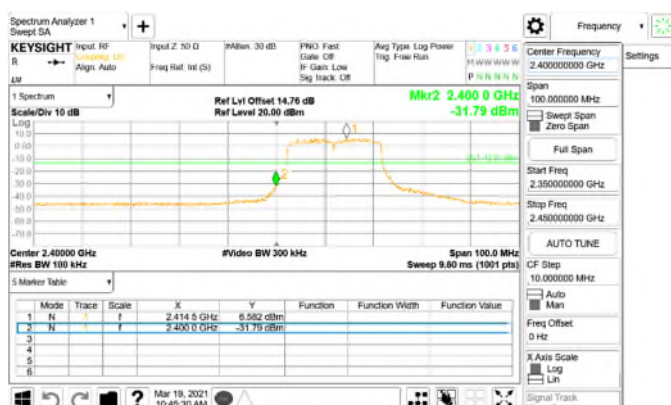
Bandedge_802.11n_20MHz_Chain0_2462MHz



Bandedge_802.11n_40MHz_Chain0_2422MHz



Bandedge_802.11ax_20MHz_Chain0_2412MHz



Bandedge_802.11n_40MHz_Chain0_2452MHz

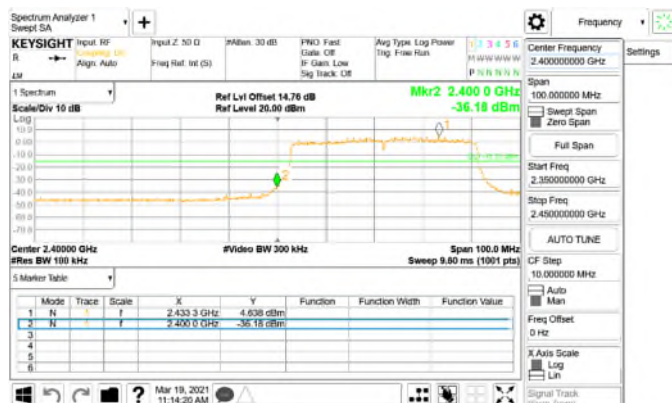


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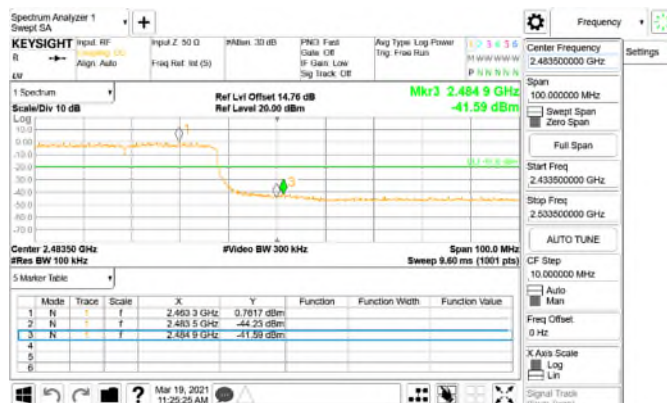
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Bandedge_802.11ax_40MHz_Chain0_2422MHz



Bandedge_802.11ax_40MHz_Chain0_2452MHz

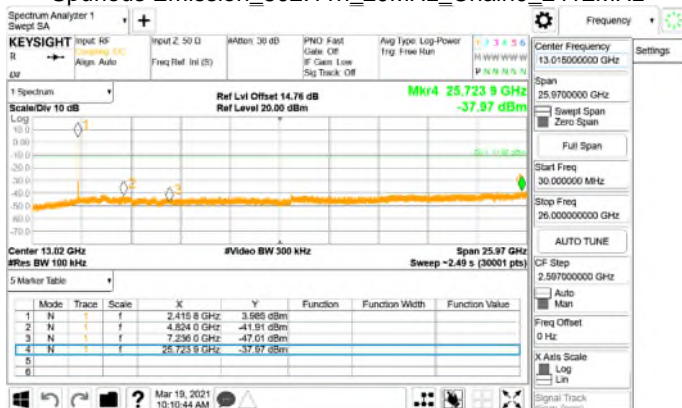


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Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11ax_20MHz_Chain0_2412MHz



Spurious Emission_802.11n_20MHz_Chain0_2437MHz



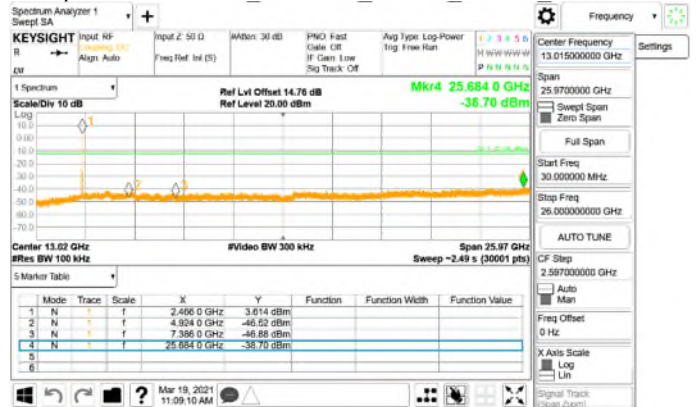
Spurious Emission_802.11ax_20MHz_Chain0_2437MHz



Spurious Emission_802.11n_20MHz_Chain0_2462MHz



Spurious Emission_802.11ax_20MHz_Chain0_2462MHz



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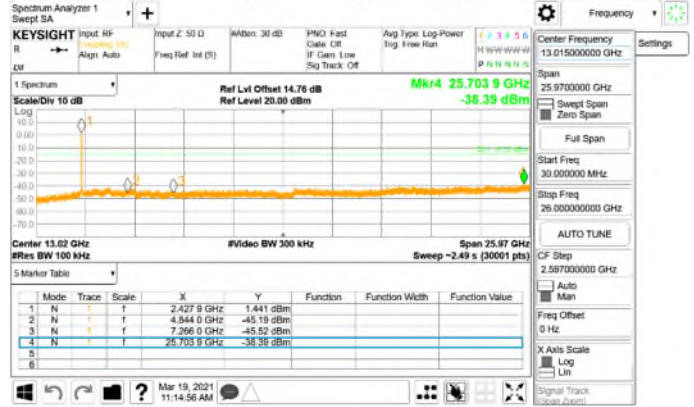
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Spurious Emission_802.11n_40MHz_Chain0_2422MHz



Spurious Emission_802.11ax_40MHz_Chain0_2422MHz



Spurious Emission_802.11n_40MHz_Chain0_2437MHz



Spurious Emission_802.11ax_40MHz_Chain0_2437MHz



Spurious Emission_802.11n_40MHz_Chain0_2452MHz



Spurious Emission_802.11ax_40MHz_Chain0_2452MHz



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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 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC III chamber	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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

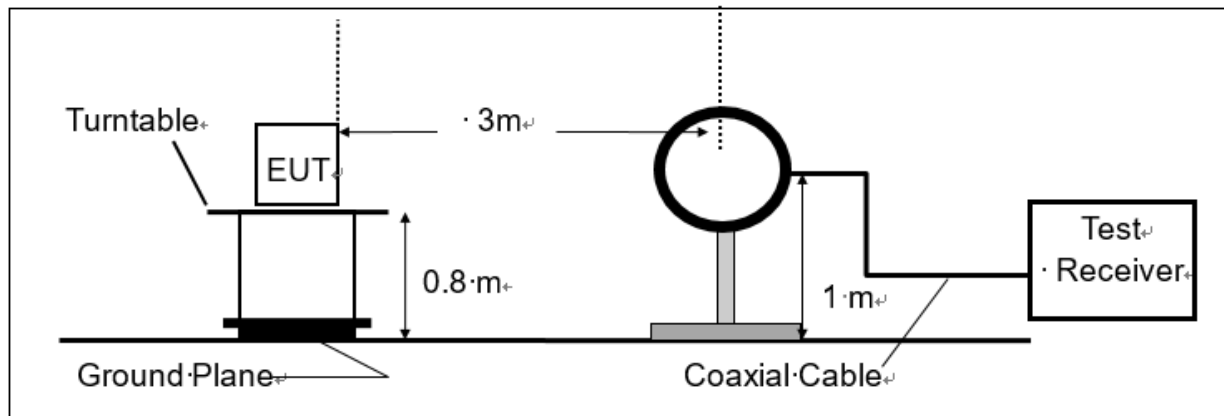
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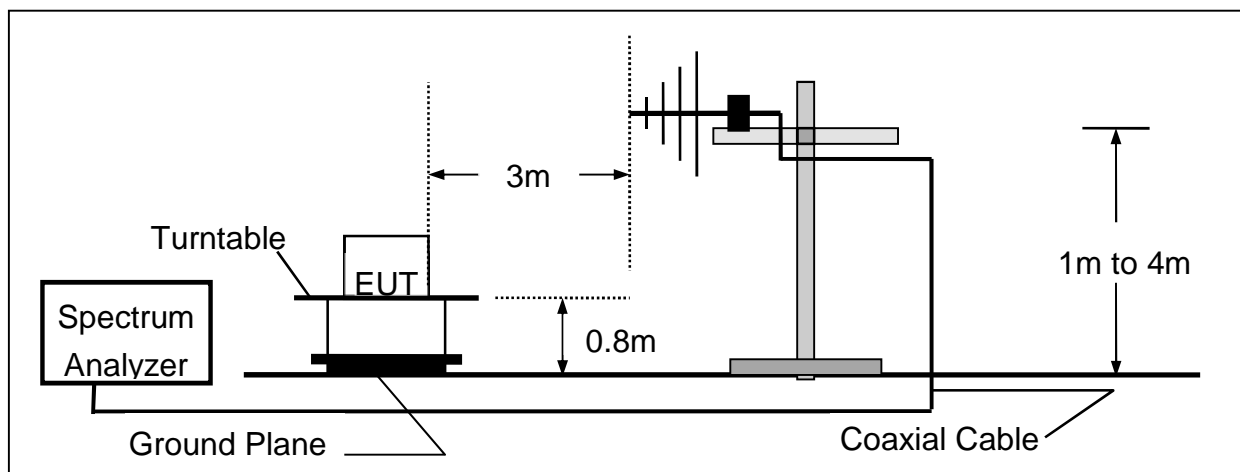
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11.3 Test SET-UP

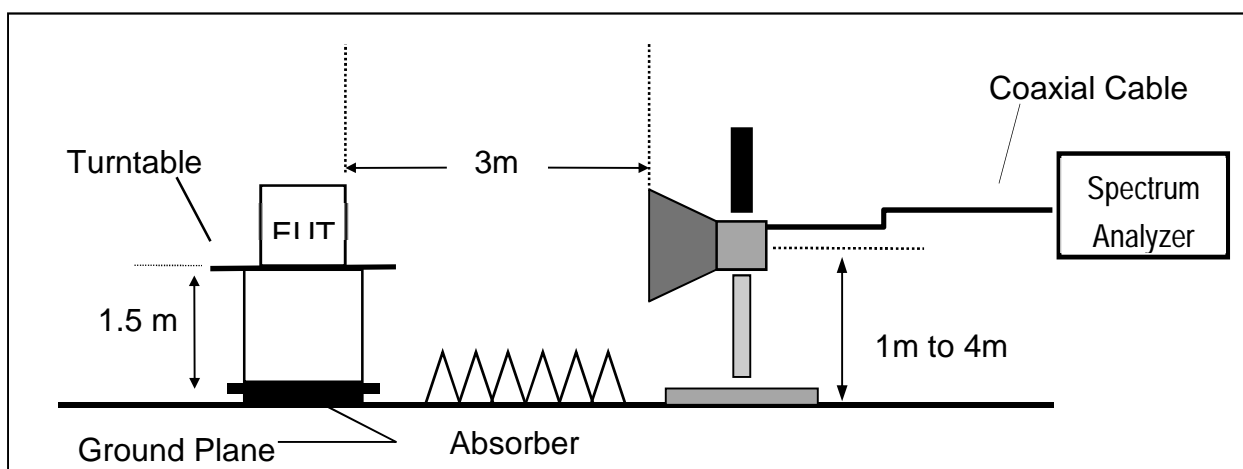
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 $20 \cdot \log(uV/m)$

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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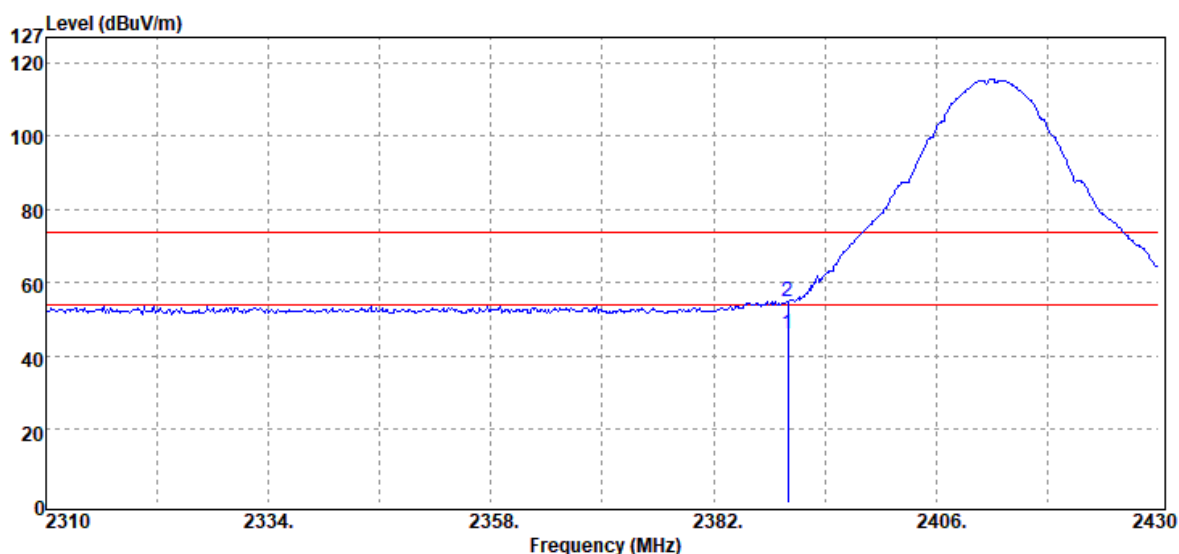
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11.7.1 Radiated Band Edge Measurement Result

CDD

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2021-02-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.2/62
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	45.39	0.76	46.15	54.00	-7.85
2390.00	Peak	54.29	0.76	55.05	74.00	-18.95

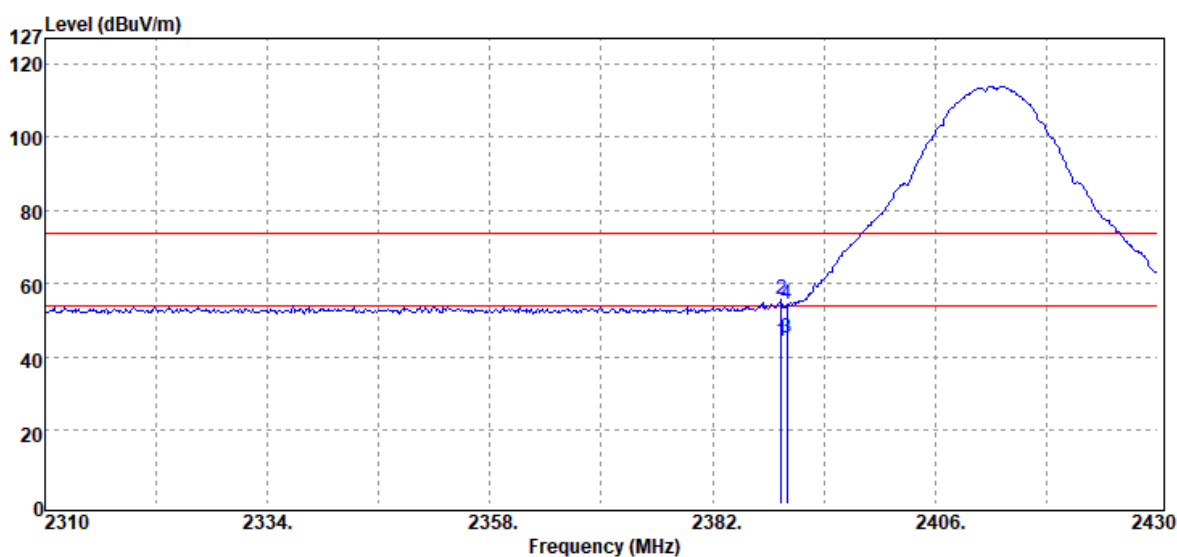
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.44	Average	43.63	0.76	44.39	54.00	-9.61
2389.44	Peak	54.90	0.76	55.66	74.00	-18.34
2390.00	Average	44.37	0.76	45.13	54.00	-8.87
2390.00	Peak	53.57	0.76	54.33	74.00	-19.67

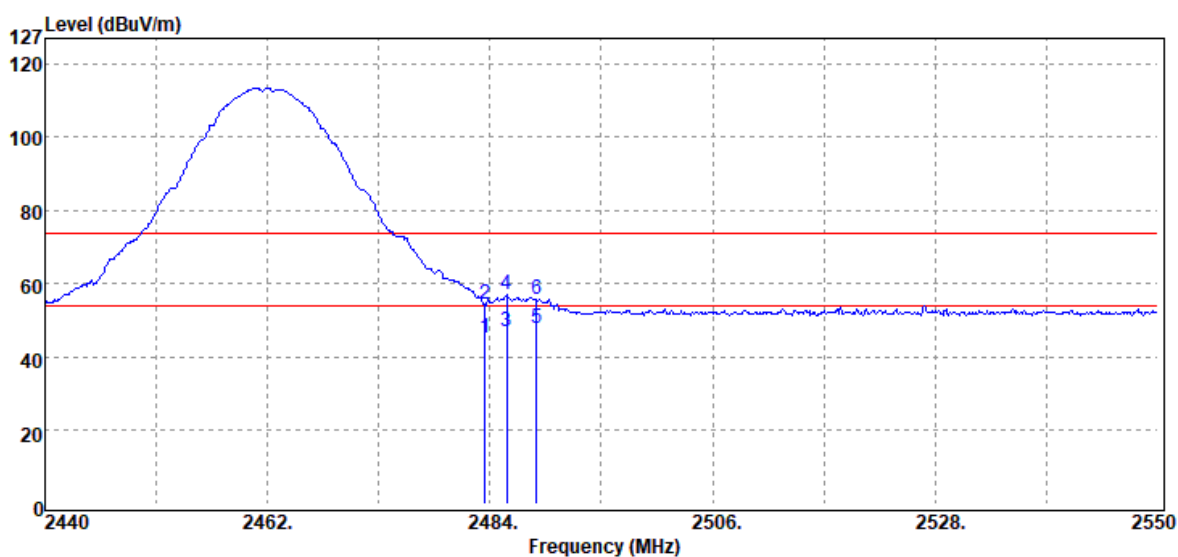
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	44.53	0.54	45.07	54.00	-8.93
2483.50	Peak	53.76	0.54	54.30	74.00	-19.70
2485.65	Average	46.66	0.54	47.20	54.00	-6.80
2485.65	Peak	56.37	0.54	56.91	74.00	-17.09
2488.60	Average	47.58	0.53	48.11	54.00	-5.89
2488.60	Peak	55.07	0.53	55.60	74.00	-18.40

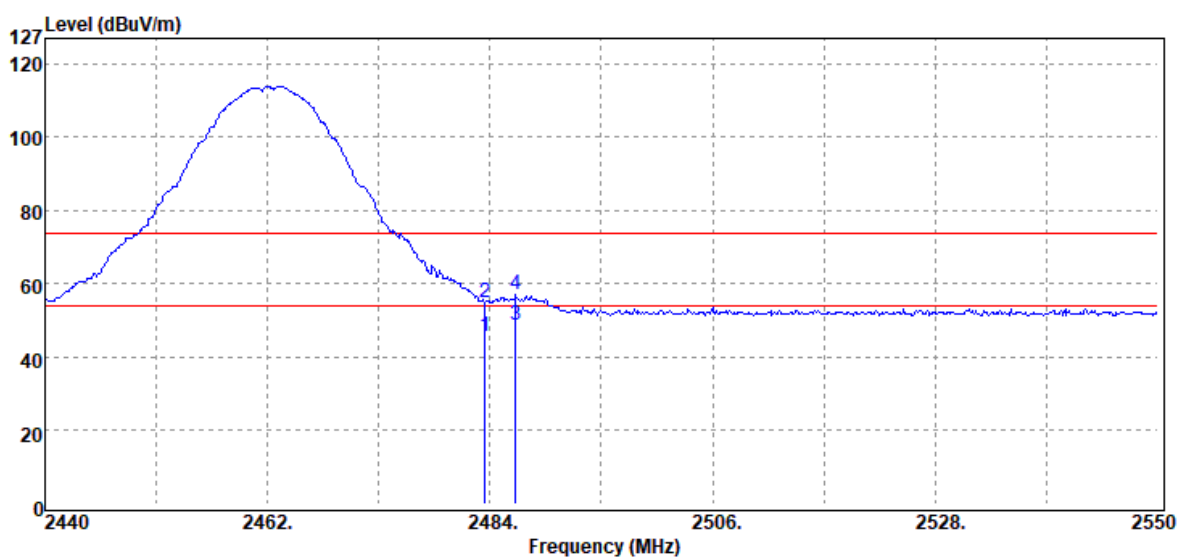
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 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	45.35	0.54	45.89	54.00	-8.11
2483.50	Peak	54.49	0.54	55.03	74.00	-18.97
2486.53	Average	48.28	0.54	48.82	54.00	-5.18
2486.53	Peak	56.42	0.54	56.96	74.00	-17.04

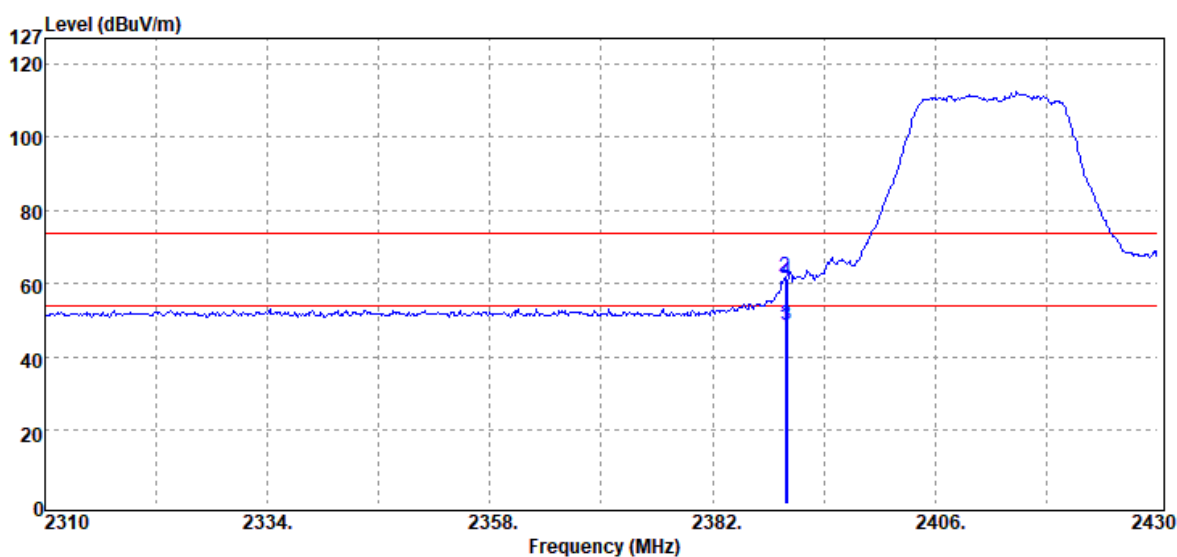
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2389.80	Average	47.67	0.76	48.43	54.00	-5.57
2389.80	Peak	61.17	0.76	61.93	74.00	-12.07
2390.00	Average	48.08	0.76	48.84	54.00	-5.16
2390.00	Peak	60.03	0.76	60.79	74.00	-13.21

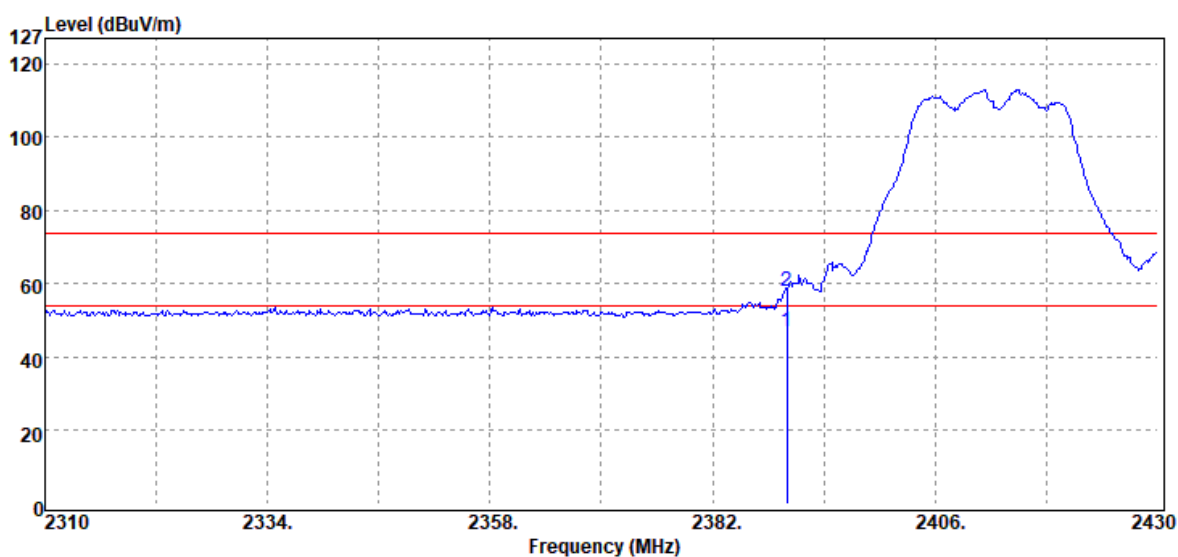
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 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	46.45	0.76	47.21	54.00	-6.79
2390.00	Peak	57.17	0.76	57.93	74.00	-16.07

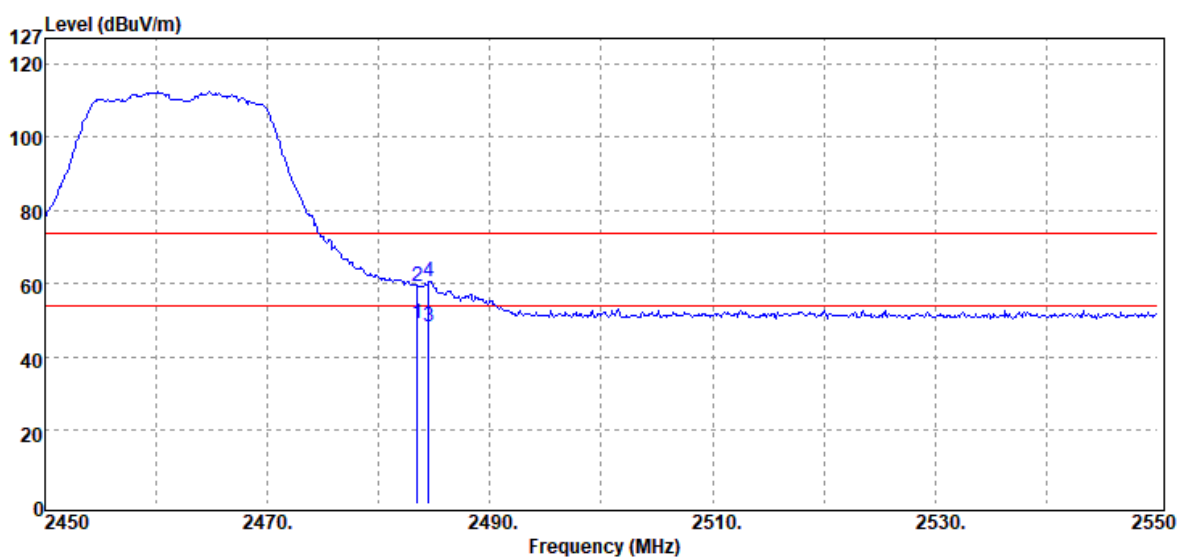
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 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.67	0.54	49.21	54.00	-4.79
2483.50	Peak	58.81	0.54	59.35	74.00	-14.65
2484.50	Average	47.89	0.54	48.43	54.00	-5.57
2484.50	Peak	60.32	0.54	60.86	74.00	-13.14

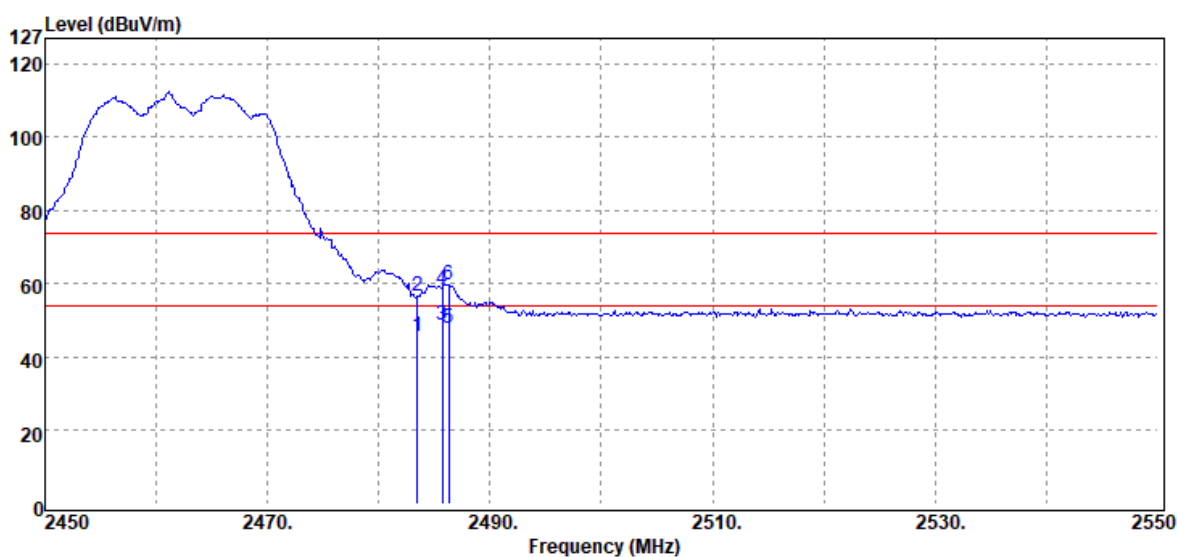
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Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	45.38	0.54	45.92	54.00	-8.08
2483.50	Peak	56.09	0.54	56.63	74.00	-17.37
2485.70	Average	48.12	0.54	48.66	54.00	-5.34
2485.70	Peak	58.07	0.54	58.61	74.00	-15.39
2486.30	Average	47.54	0.54	48.08	54.00	-5.92
2486.30	Peak	59.21	0.54	59.75	74.00	-14.25

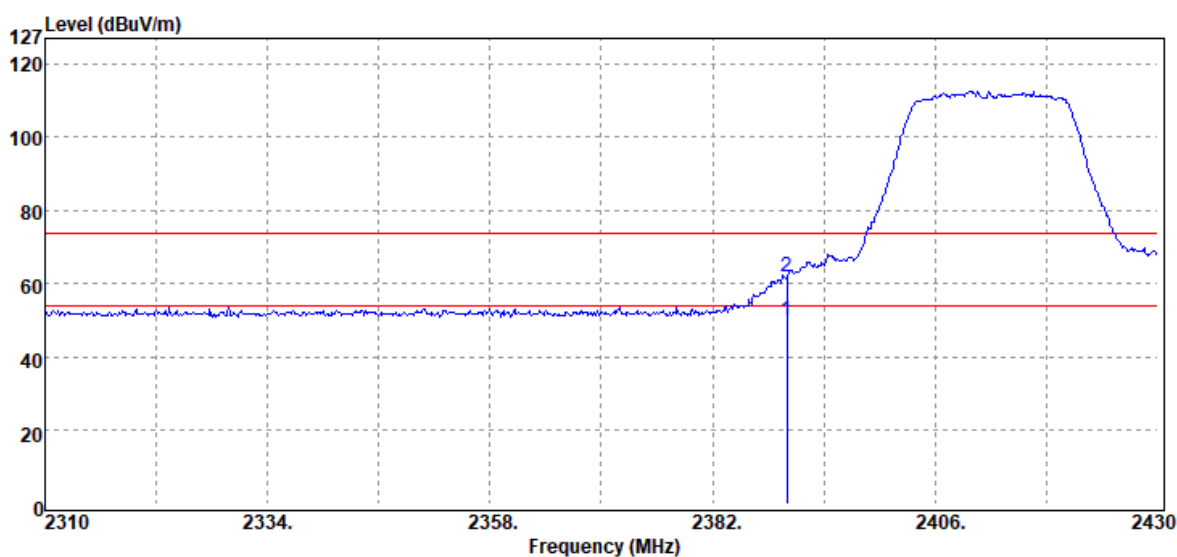
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	49.39	0.76	50.15	54.00	-3.85
2390.00	Peak	61.26	0.76	62.02	74.00	-11.98

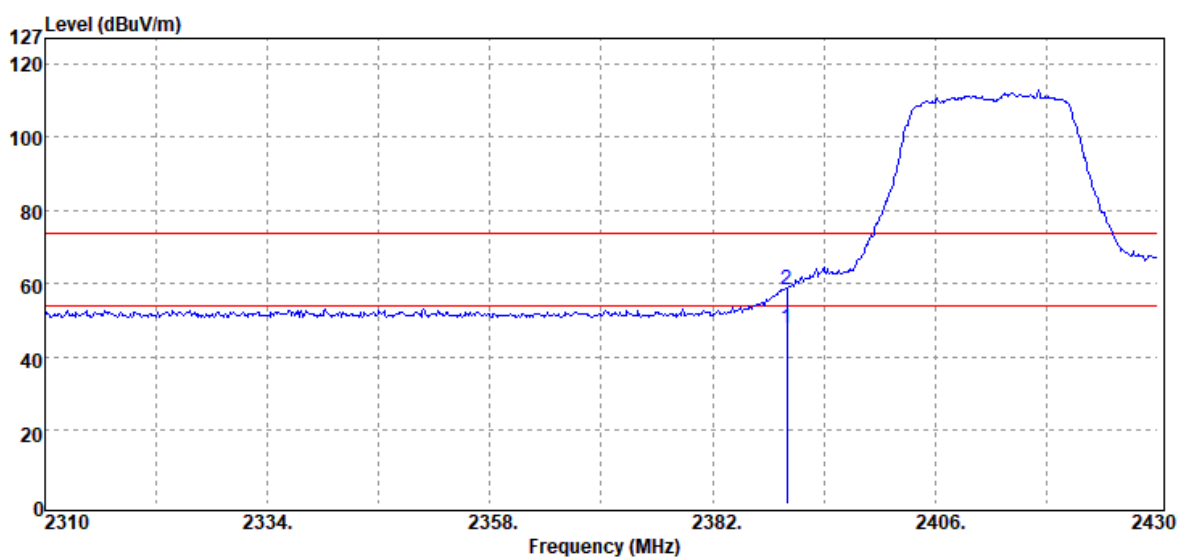
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	46.99	0.76	47.75	54.00	-6.25
2390.00	Peak	57.89	0.76	58.65	74.00	-15.35

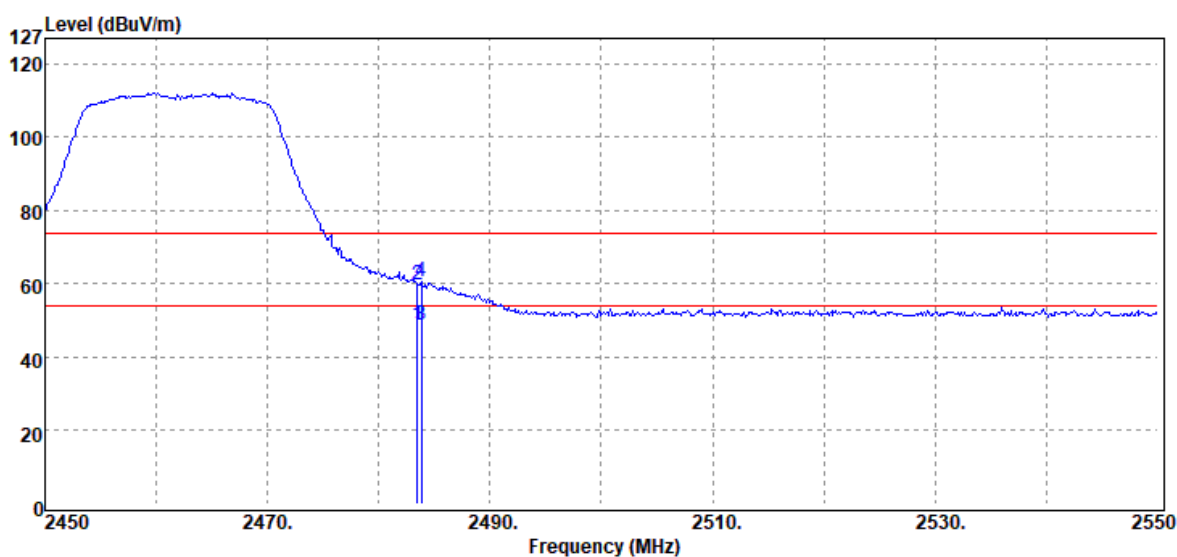
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.38	0.54	48.92	54.00	-5.08
2483.50	Peak	59.27	0.54	59.81	74.00	-14.19
2483.80	Average	48.06	0.54	48.60	54.00	-5.40
2483.80	Peak	60.00	0.54	60.54	74.00	-13.46

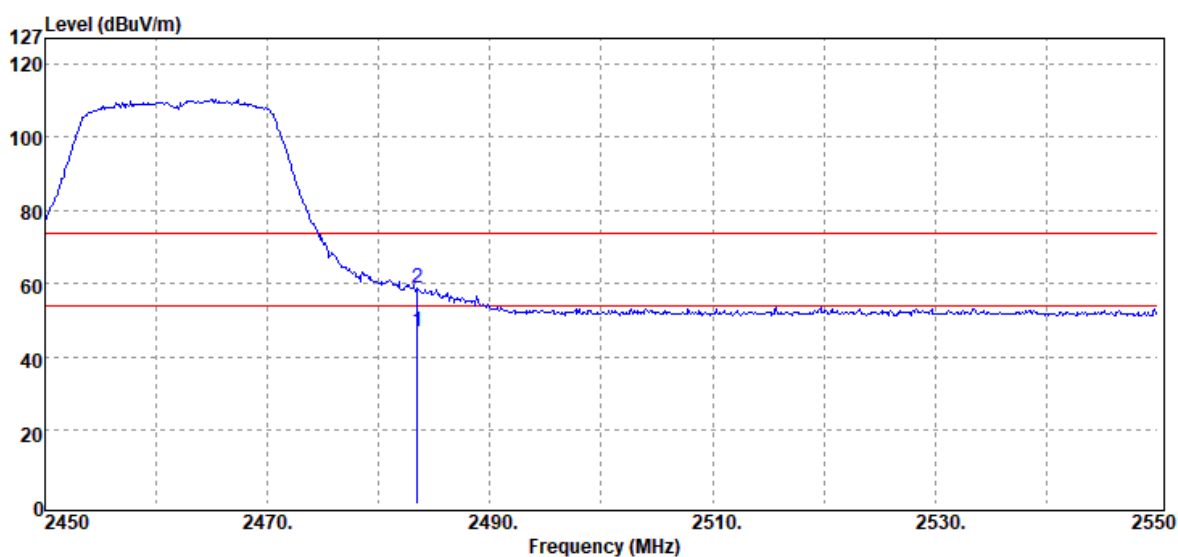
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	46.53	0.54	47.07	54.00	-6.93
2483.50	Peak	58.56	0.54	59.10	74.00	-14.90

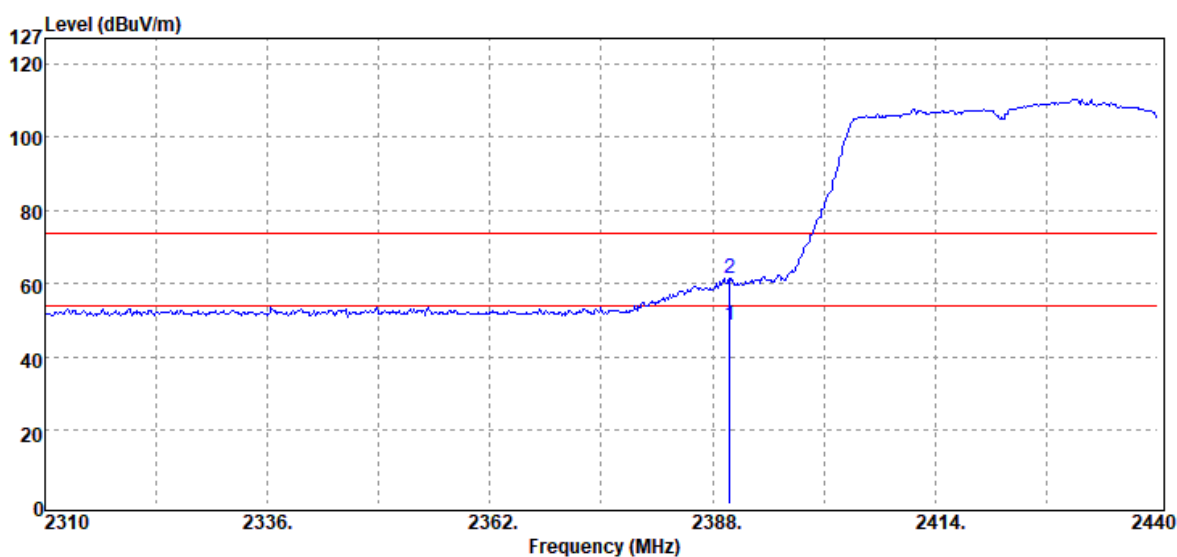
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	48.18	0.76	48.94	54.00	-5.06
2390.00	Peak	60.63	0.76	61.39	74.00	-12.61

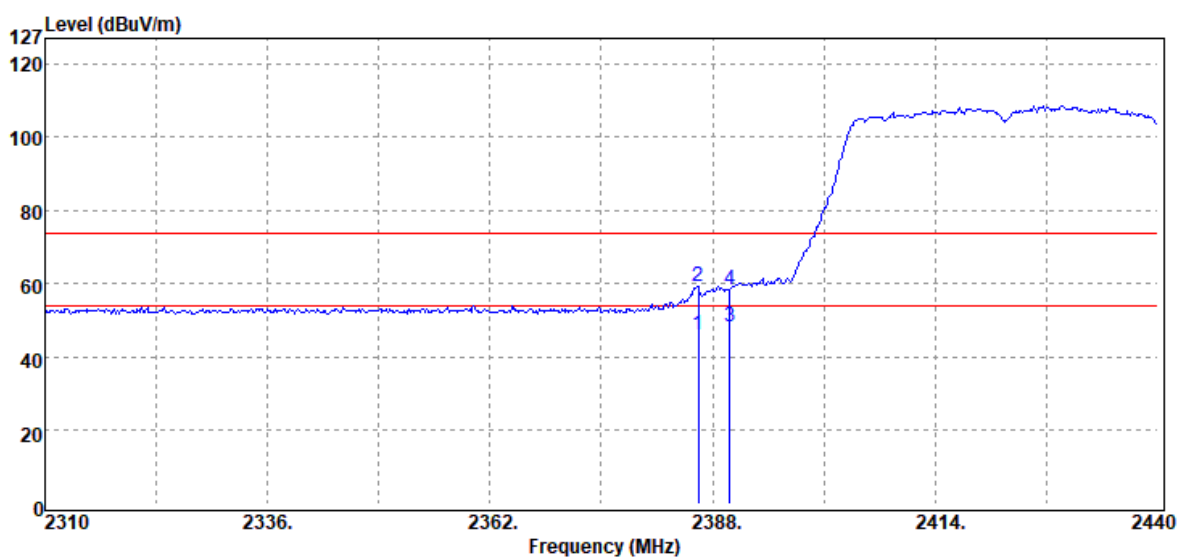
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2386.31	Average	45.40	0.76	46.16	54.00	-7.84
2386.31	Peak	58.51	0.76	59.27	74.00	-14.73
2390.00	Average	47.65	0.76	48.41	54.00	-5.59
2390.00	Peak	57.77	0.76	58.53	74.00	-15.47

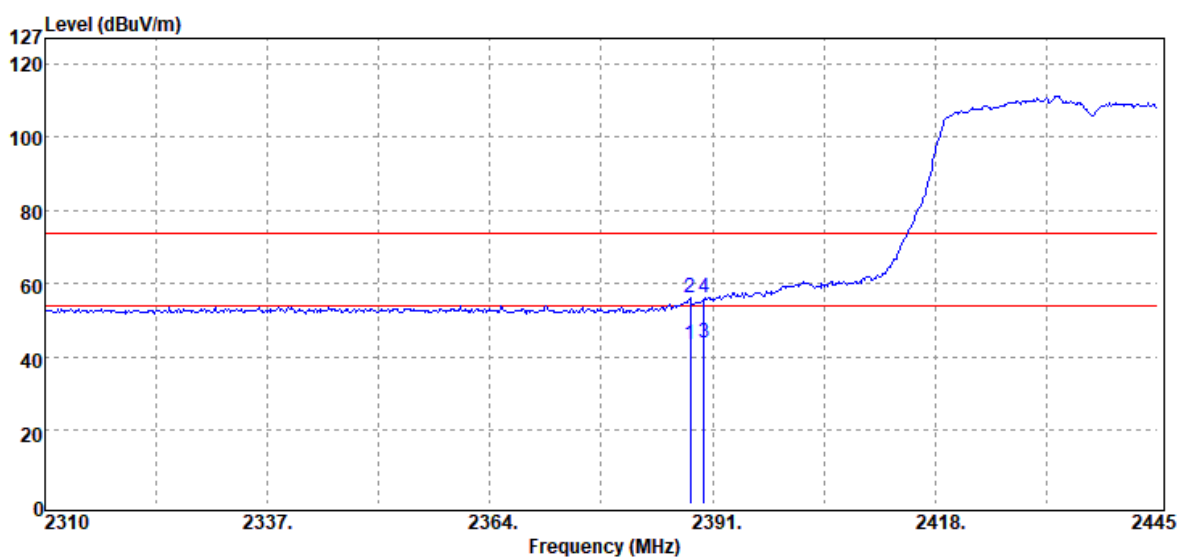
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2388.30	Average	42.85	0.76	43.61	54.00	-10.39
2388.30	Peak	55.60	0.76	56.36	74.00	-17.64
2390.00	Average	43.39	0.76	44.15	54.00	-9.85
2390.00	Peak	55.41	0.76	56.17	74.00	-17.83

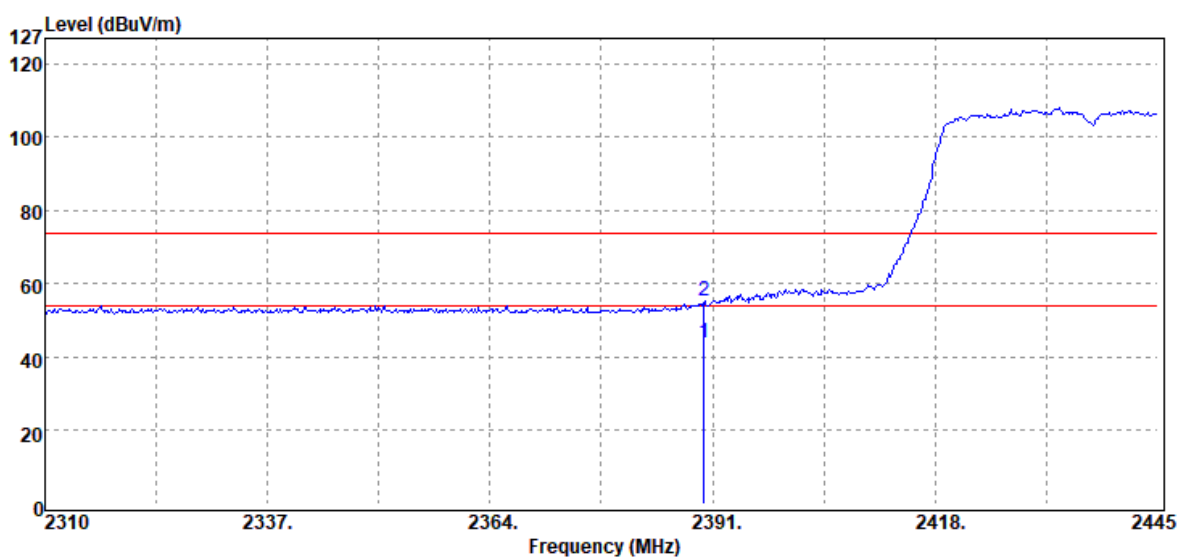
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	43.23	0.76	43.99	54.00	-10.01
2390.00	Peak	54.72	0.76	55.48	74.00	-18.52

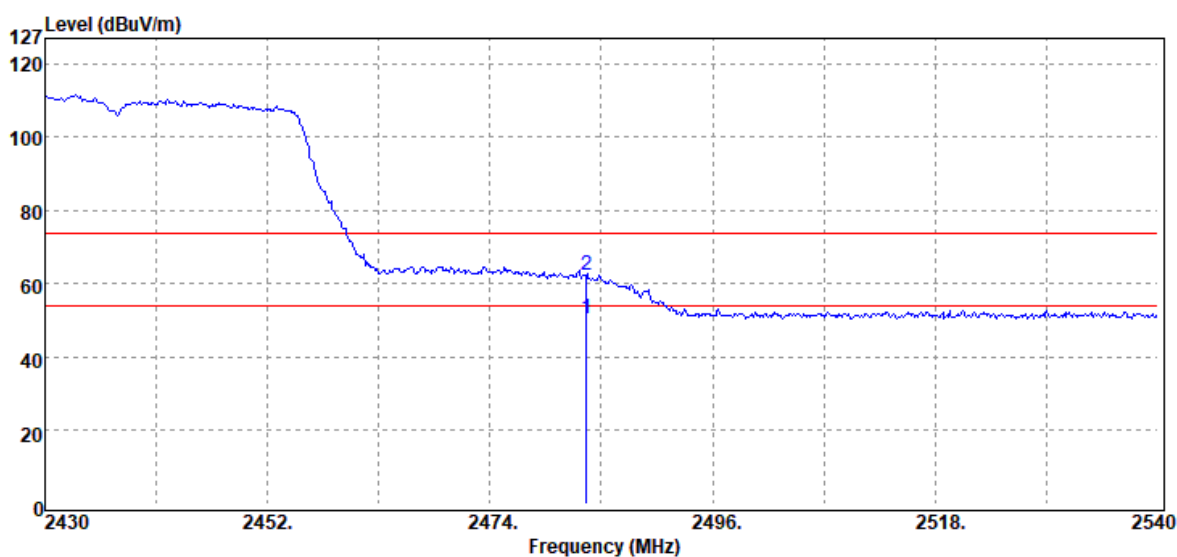
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	49.78	0.54	50.32	54.00	-3.68
2483.50	Peak	62.03	0.54	62.57	74.00	-11.43

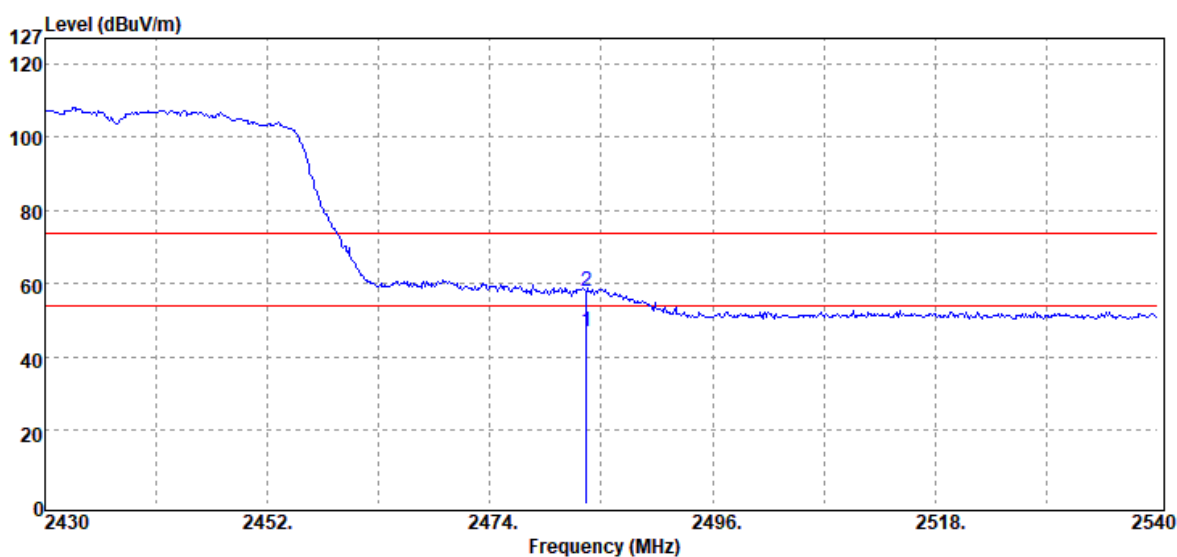
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	46.27	0.54	46.81	54.00	-7.19
2483.50	Peak	57.63	0.54	58.17	74.00	-15.83

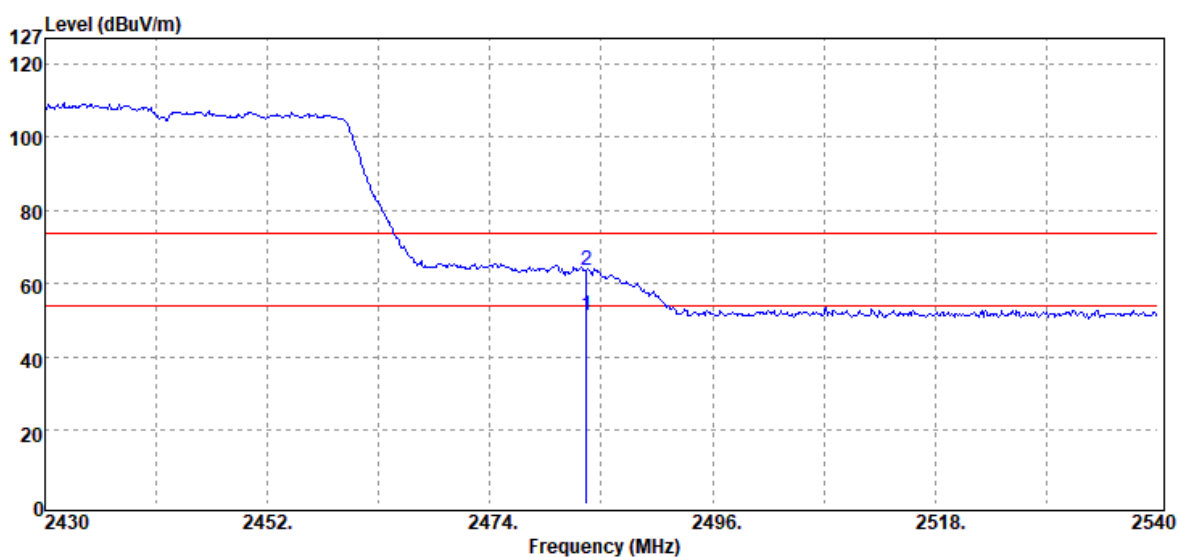
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.93	0.54	51.47	54.00	-2.53
2483.50	Peak	63.34	0.54	63.88	74.00	-10.12

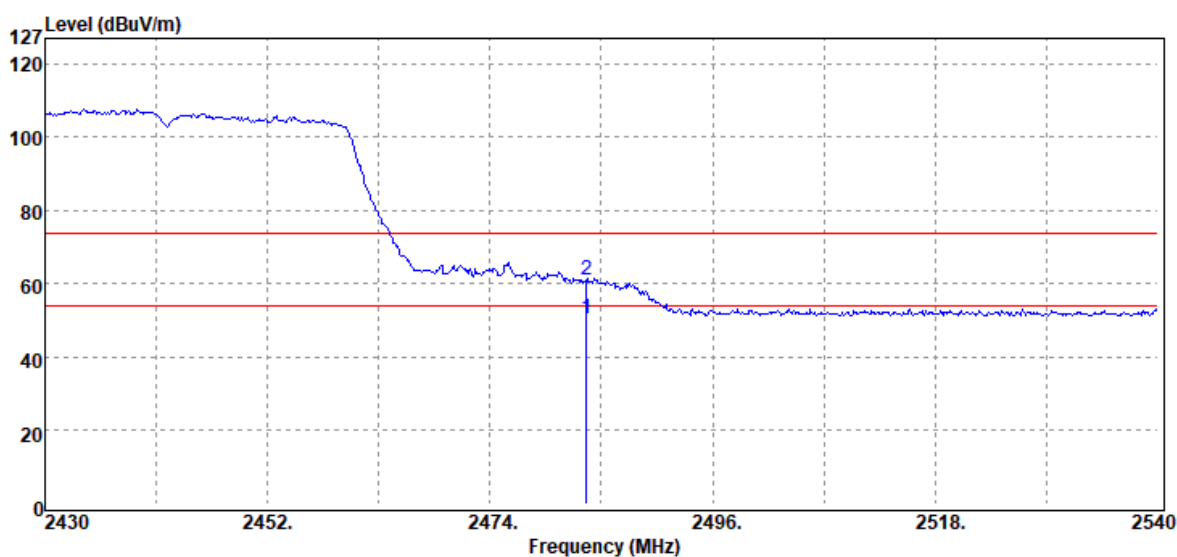
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	49.82	0.54	50.36	54.00	-3.64
2483.50	Peak	60.70	0.54	61.24	74.00	-12.76

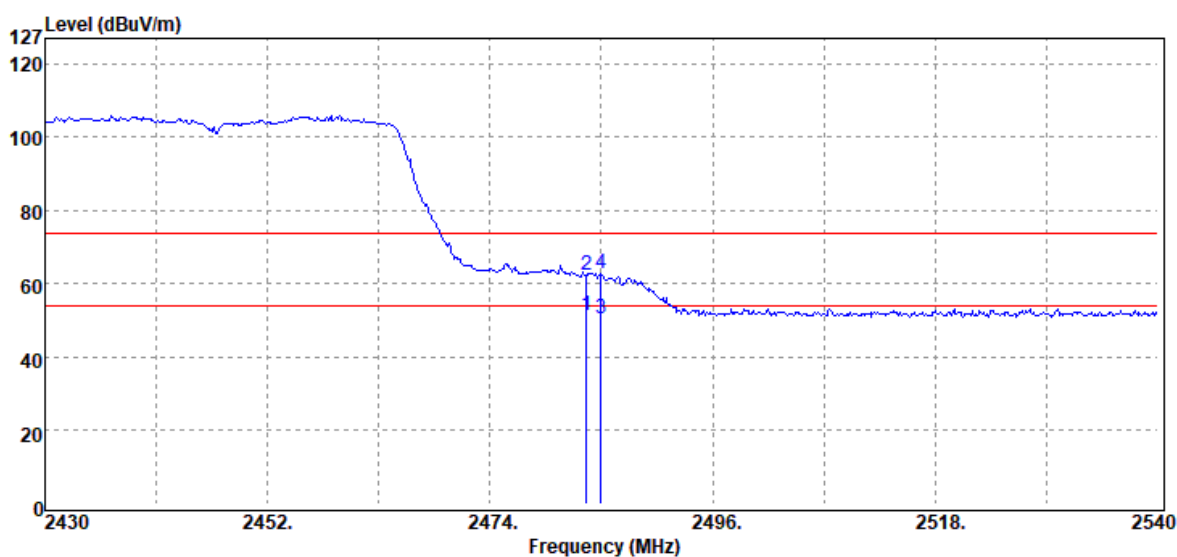
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.85	0.54	51.39	54.00	-2.61
2483.50	Peak	61.74	0.54	62.28	74.00	-11.72
2485.00	Average	50.16	0.54	50.70	54.00	-3.30
2485.00	Peak	62.43	0.54	62.97	74.00	-11.03

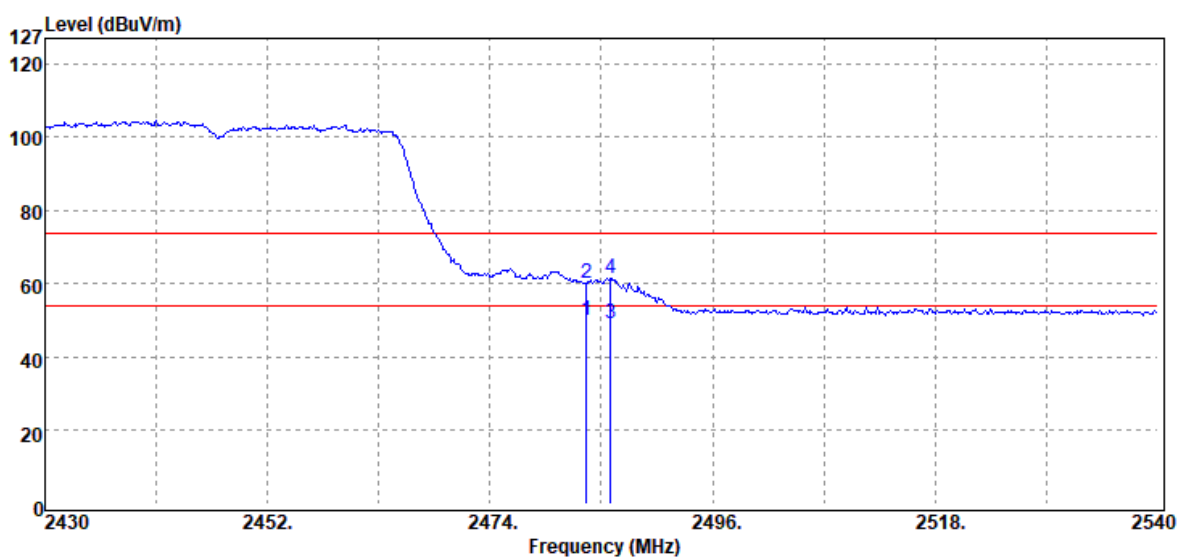
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	49.46	0.54	50.00	54.00	-4.00
2483.50	Peak	59.72	0.54	60.26	74.00	-13.74
2485.88	Average	48.67	0.54	49.21	54.00	-4.79
2485.88	Peak	61.11	0.54	61.65	74.00	-12.35

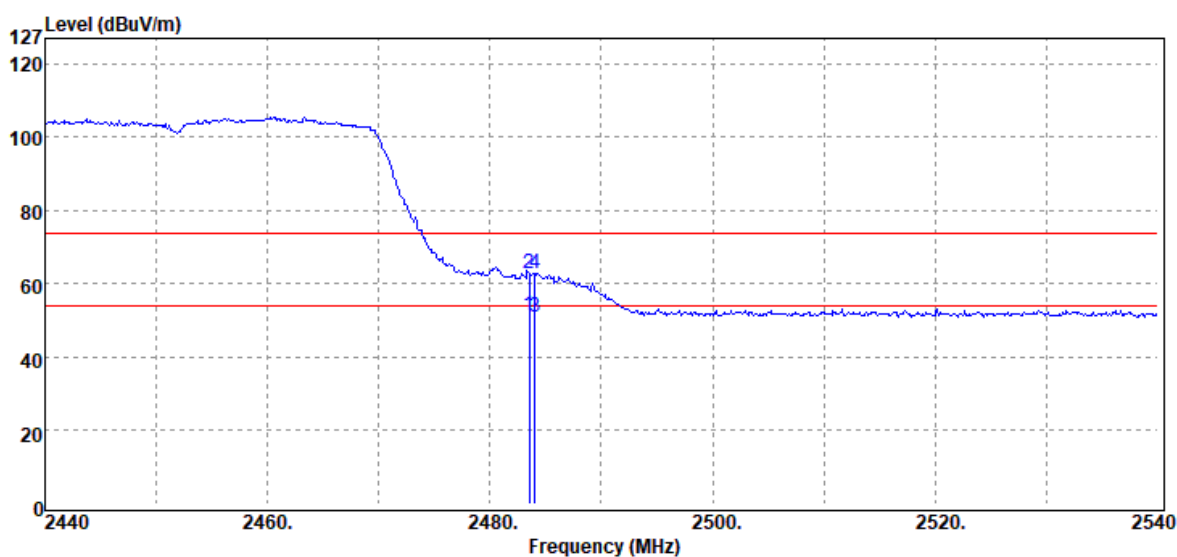
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	50.71	0.54	51.25	54.00	-2.75
2483.50	Peak	62.23	0.54	62.77	74.00	-11.23
2484.00	Average	50.45	0.54	50.99	54.00	-3.01
2484.00	Peak	62.43	0.54	62.97	74.00	-11.03

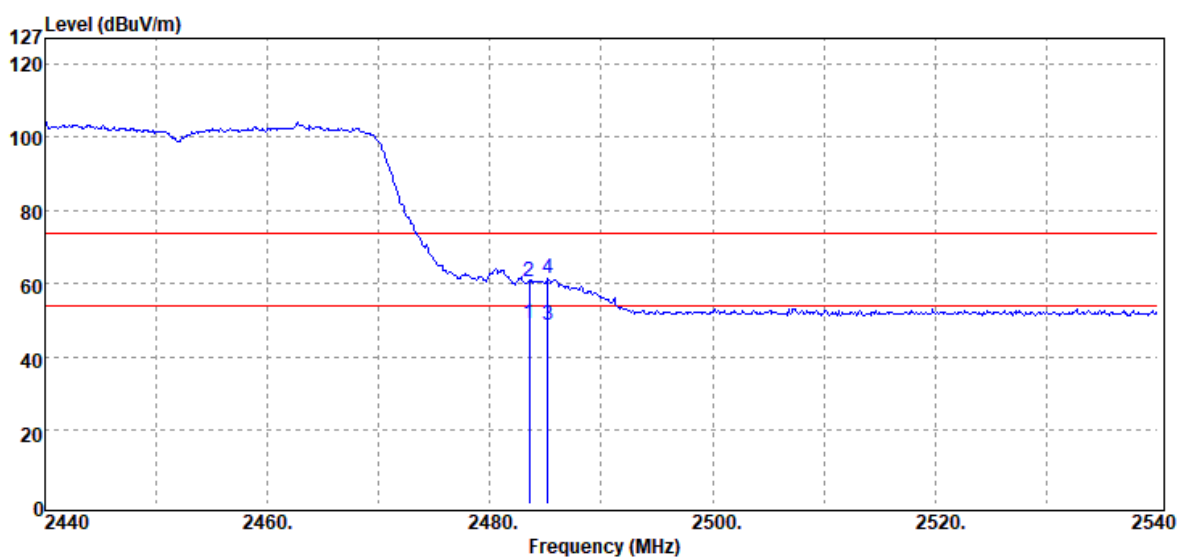
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	48.67	0.54	49.21	54.00	-4.79
2483.50	Peak	60.24	0.54	60.78	74.00	-13.22
2485.20	Average	48.03	0.54	48.57	54.00	-5.43
2485.20	Peak	60.89	0.54	61.43	74.00	-12.57

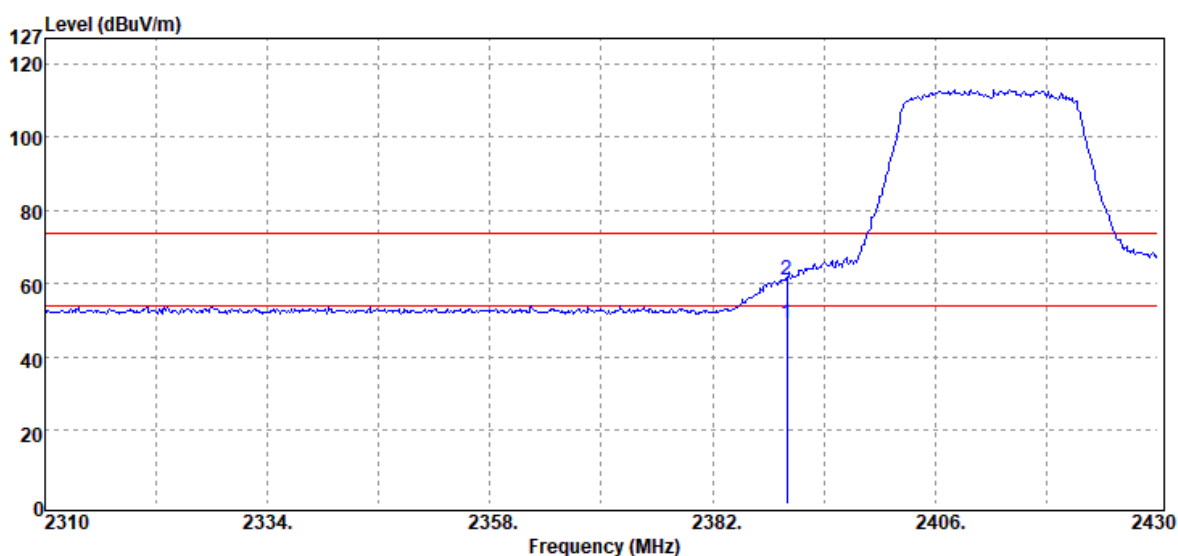
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	48.63	0.76	49.39	54.00	-4.61
2390.00	Peak	60.22	0.76	60.98	74.00	-13.02

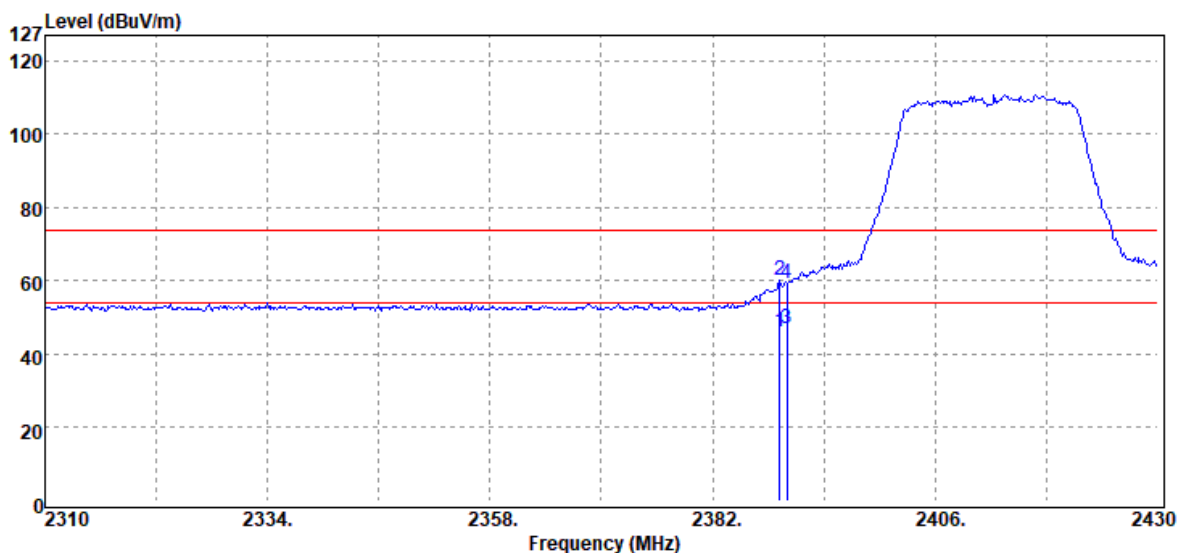
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.20	Average	45.39	0.76	46.15	54.00	-7.85
2389.20	Peak	59.41	0.76	60.17	74.00	-13.83
2390.00	Average	46.25	0.76	47.01	54.00	-6.99
2390.00	Peak	58.78	0.76	59.54	74.00	-14.46

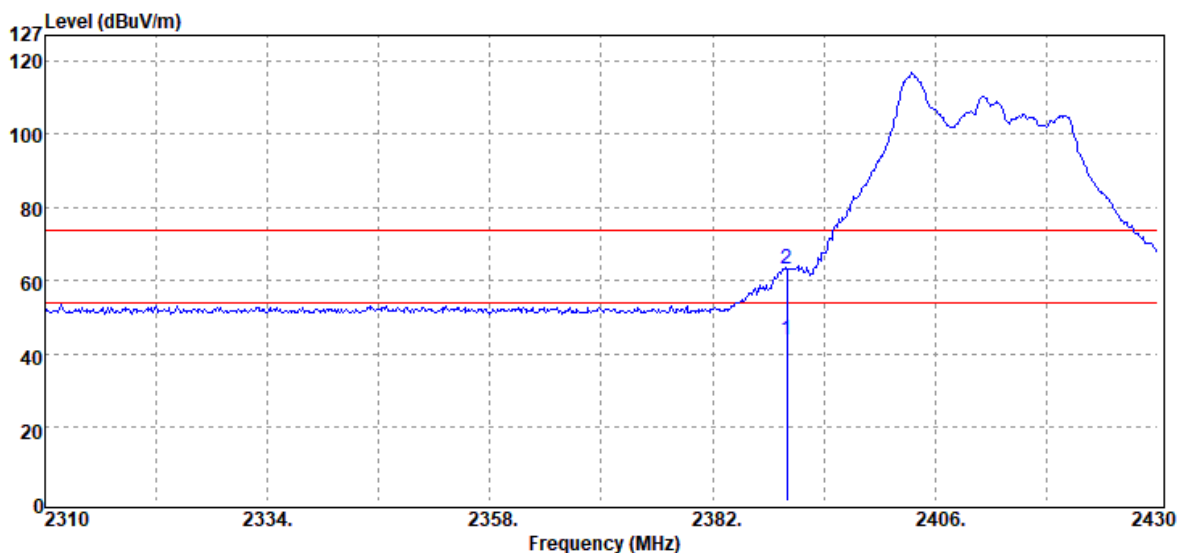
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.08	0.76	43.84	54.00	-10.16
2390.00	Peak	62.57	0.76	63.33	74.00	-10.67

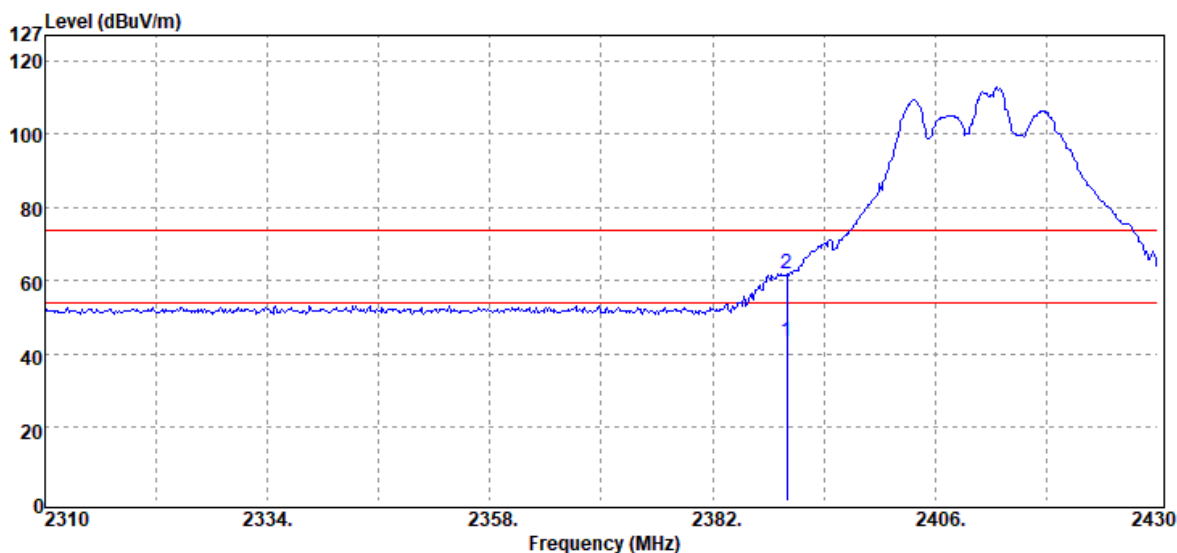
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.89	0.76	43.65	54.00	-10.35
2390.00	Peak	61.17	0.76	61.93	74.00	-12.07

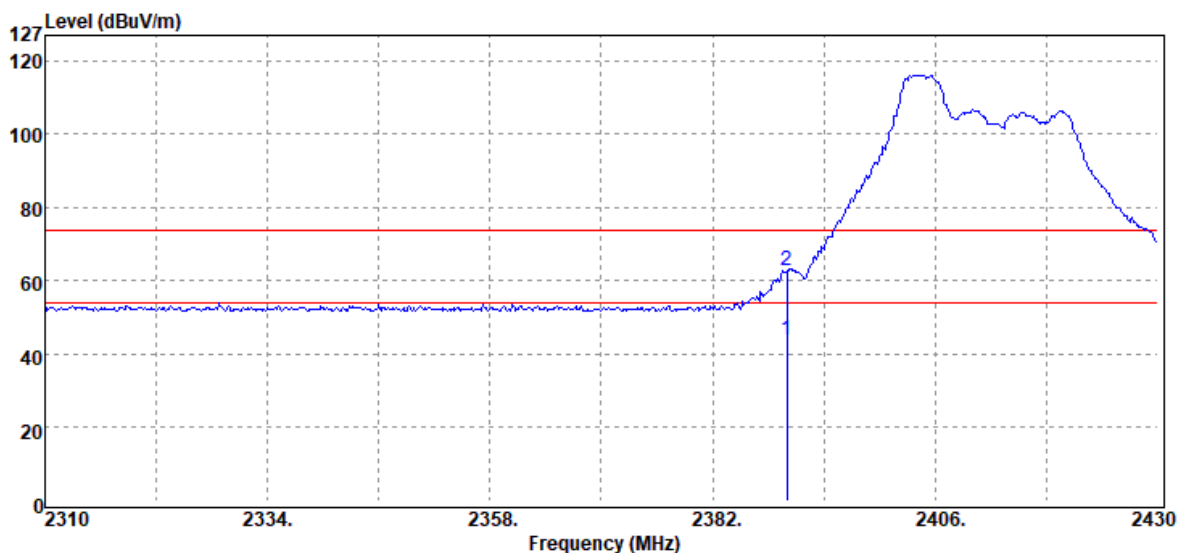
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.37	0.76	44.13	54.00	-9.87
2390.00	Peak	61.97	0.76	62.73	74.00	-11.27

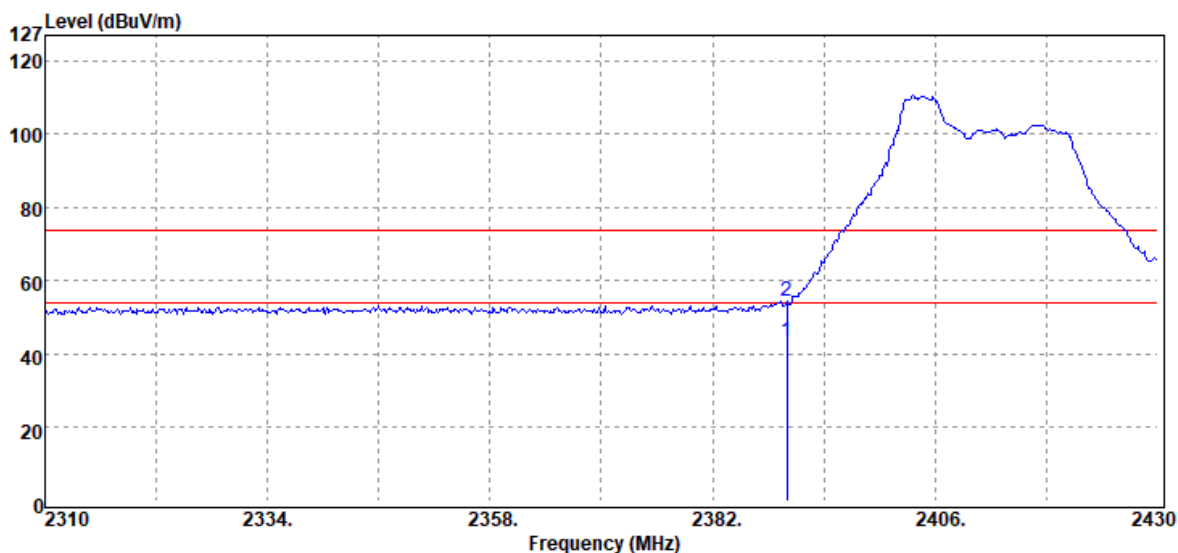
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	42.67	0.76	43.43	54.00	-10.57
2390.00	Peak	53.71	0.76	54.47	74.00	-19.53

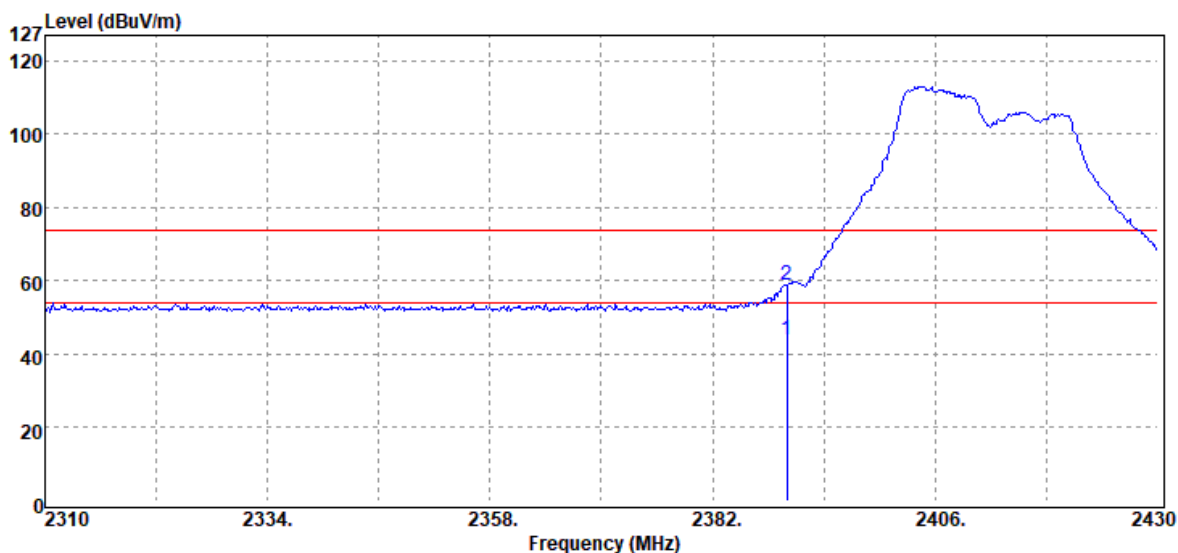
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.02	0.76	43.78	54.00	-10.22
2390.00	Peak	58.17	0.76	58.93	74.00	-15.07

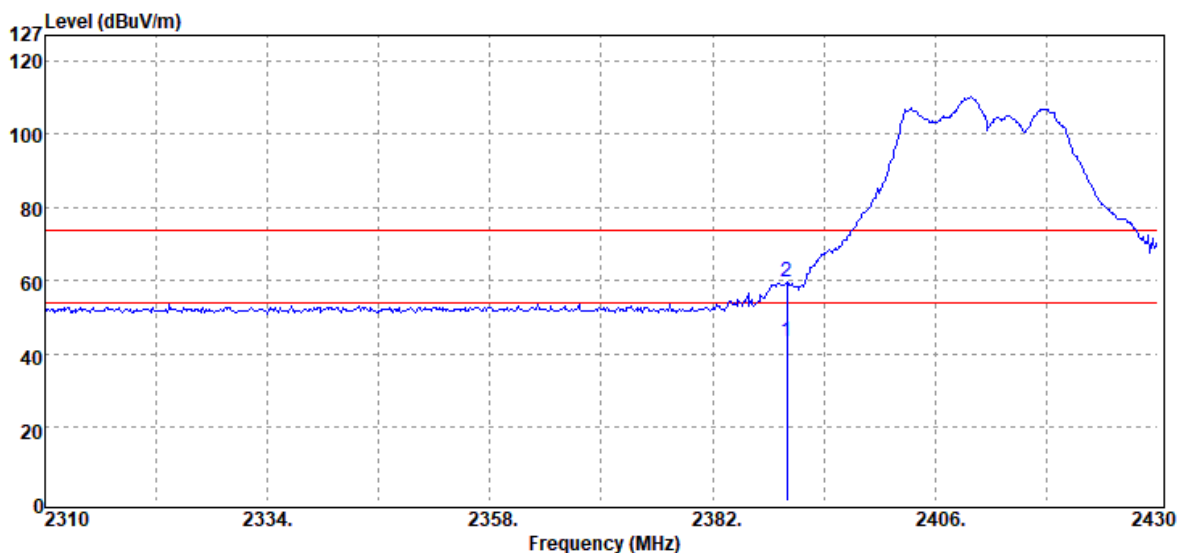
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.72	0.76	43.48	54.00	-10.52
2390.00	Peak	59.03	0.76	59.79	74.00	-14.21

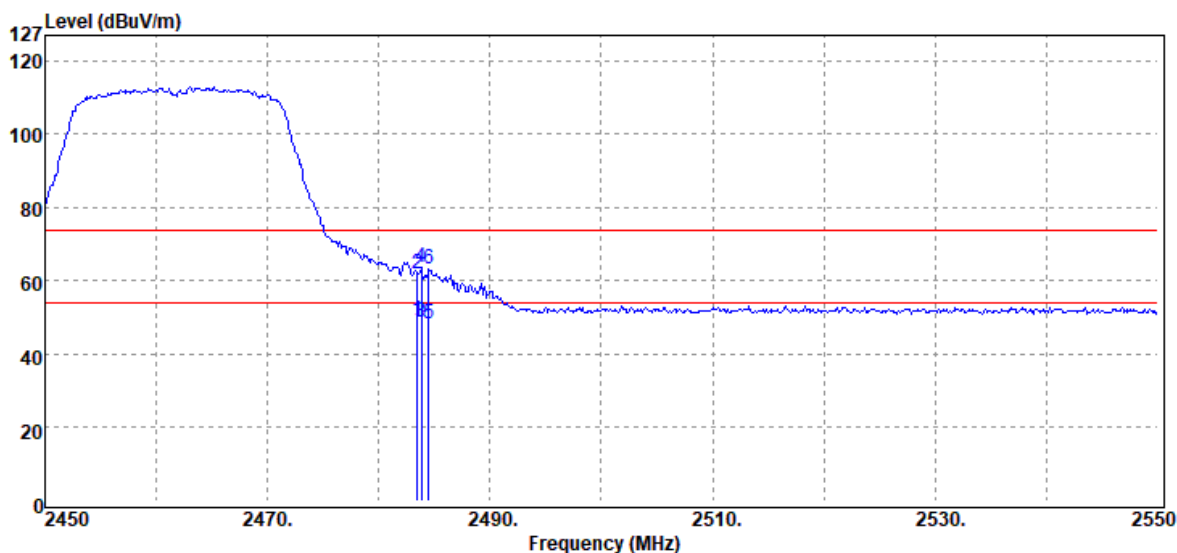
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.59	0.54	49.13	54.00	-4.87
2483.50	Peak	61.52	0.54	62.06	74.00	-11.94
2483.80	Average	48.33	0.54	48.87	54.00	-5.13
2483.80	Peak	62.98	0.54	63.52	74.00	-10.48
2484.50	Average	47.75	0.54	48.29	54.00	-5.71
2484.50	Peak	62.68	0.54	63.22	74.00	-10.78

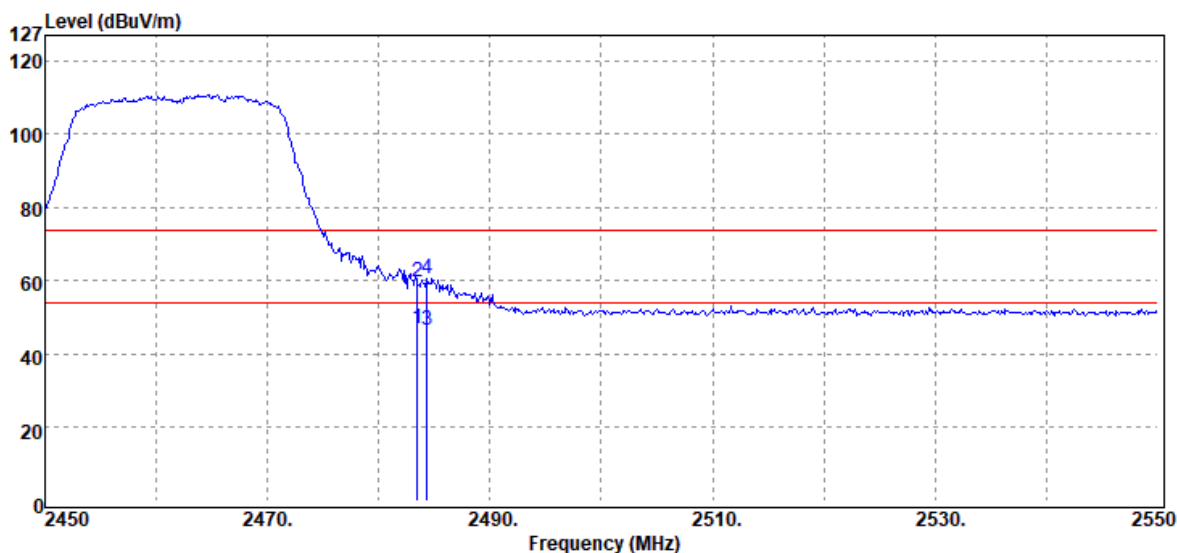
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.42	0.54	46.96	54.00	-7.04
2483.50	Peak	59.34	0.54	59.88	74.00	-14.12
2484.30	Average	45.93	0.54	46.47	54.00	-7.53
2484.30	Peak	60.07	0.54	60.61	74.00	-13.39

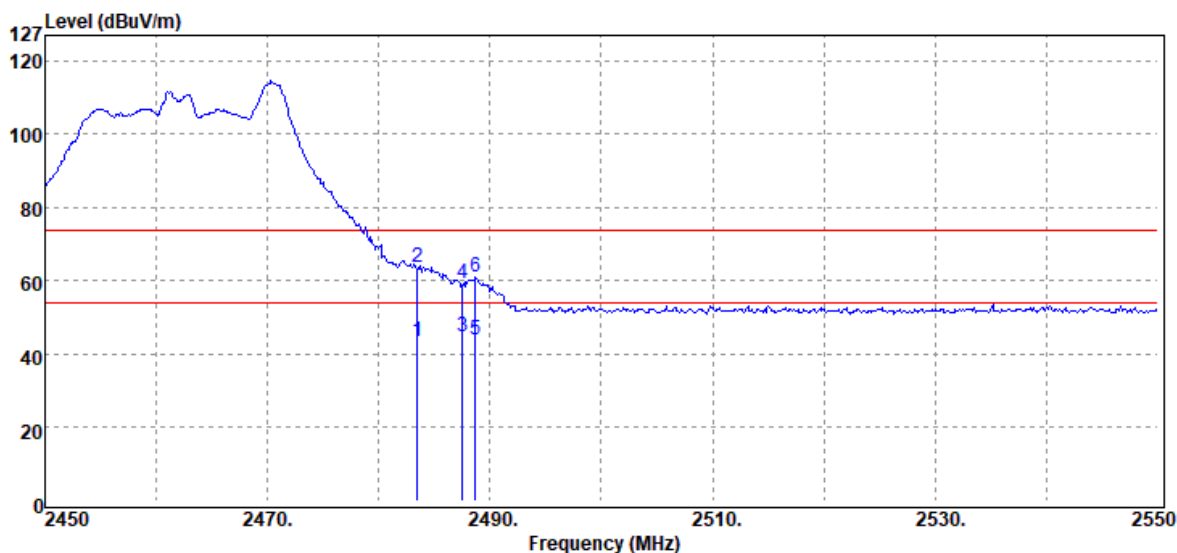
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.99	0.54	43.53	54.00	-10.47
2483.50	Peak	63.21	0.54	63.75	74.00	-10.25
2487.50	Average	44.33	0.53	44.86	54.00	-9.14
2487.50	Peak	58.62	0.53	59.15	74.00	-14.85
2488.70	Average	43.45	0.53	43.98	54.00	-10.02
2488.70	Peak	60.71	0.53	61.24	74.00	-12.76

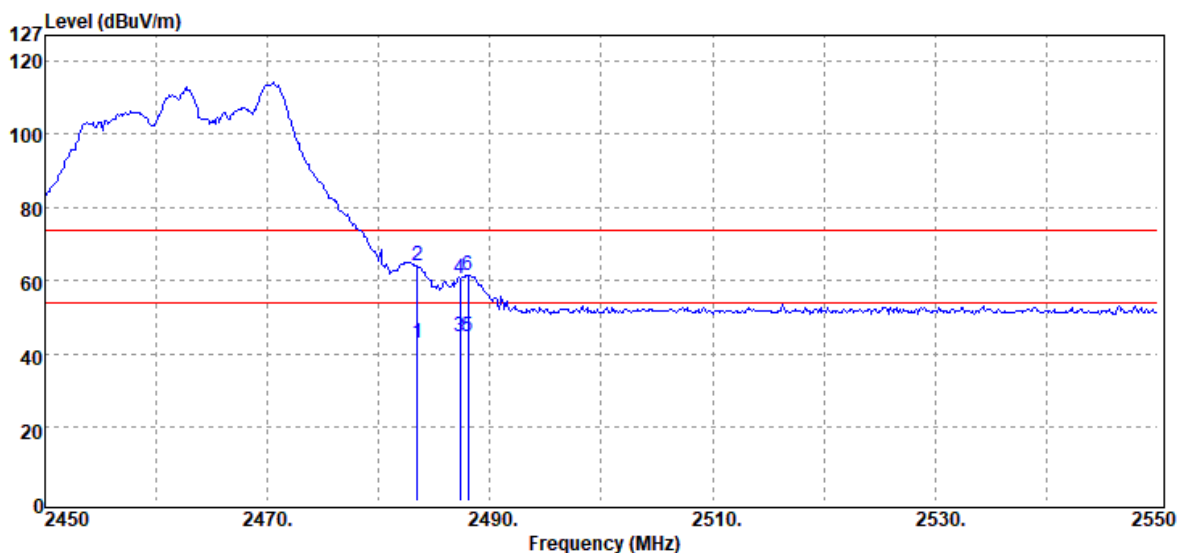
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.63	0.54	43.17	54.00	-10.83
2483.50	Peak	63.63	0.54	64.17	74.00	-9.83
2487.30	Average	44.50	0.54	45.04	54.00	-8.96
2487.30	Peak	59.90	0.54	60.44	74.00	-13.56
2488.00	Average	44.09	0.53	44.62	54.00	-9.38
2488.00	Peak	61.13	0.53	61.66	74.00	-12.34

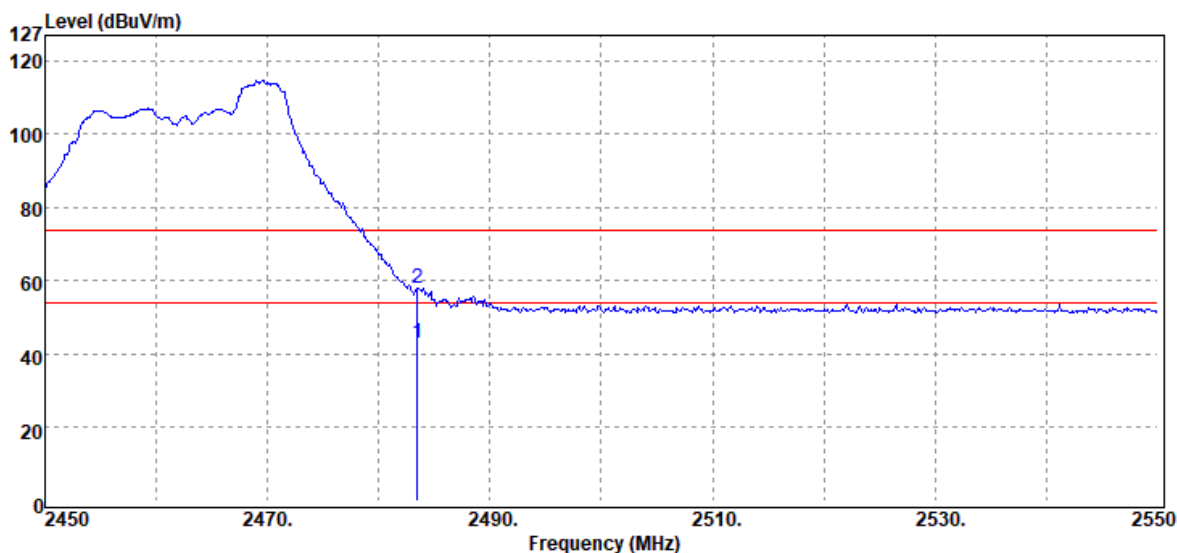
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.31	0.54	42.85	54.00	-11.15
2483.50	Peak	57.28	0.54	57.82	74.00	-16.18

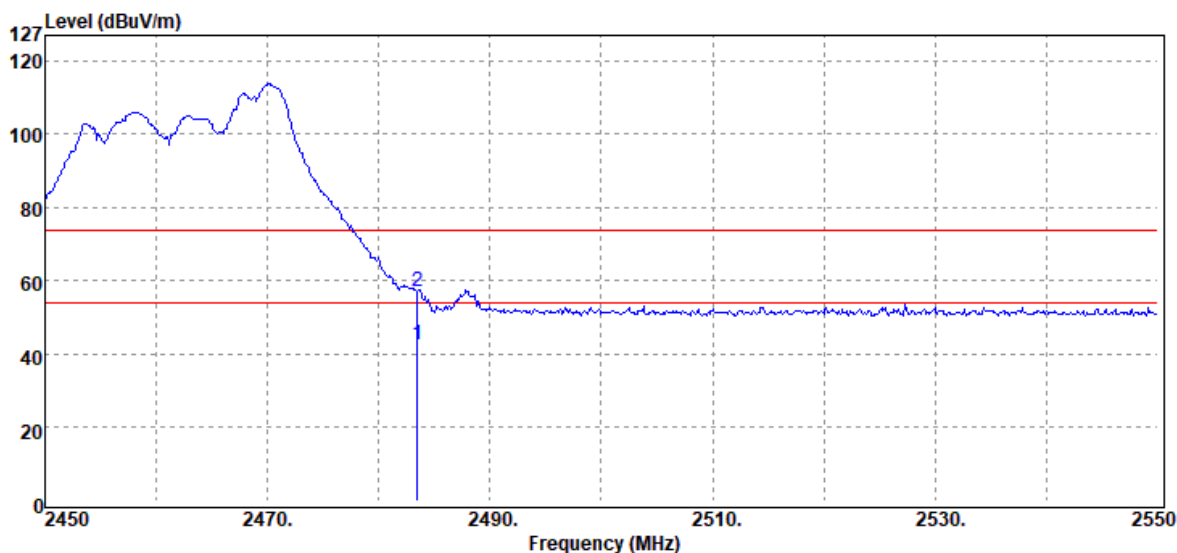
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.22	0.54	42.76	54.00	-11.24
2483.50	Peak	56.48	0.54	57.02	74.00	-16.98

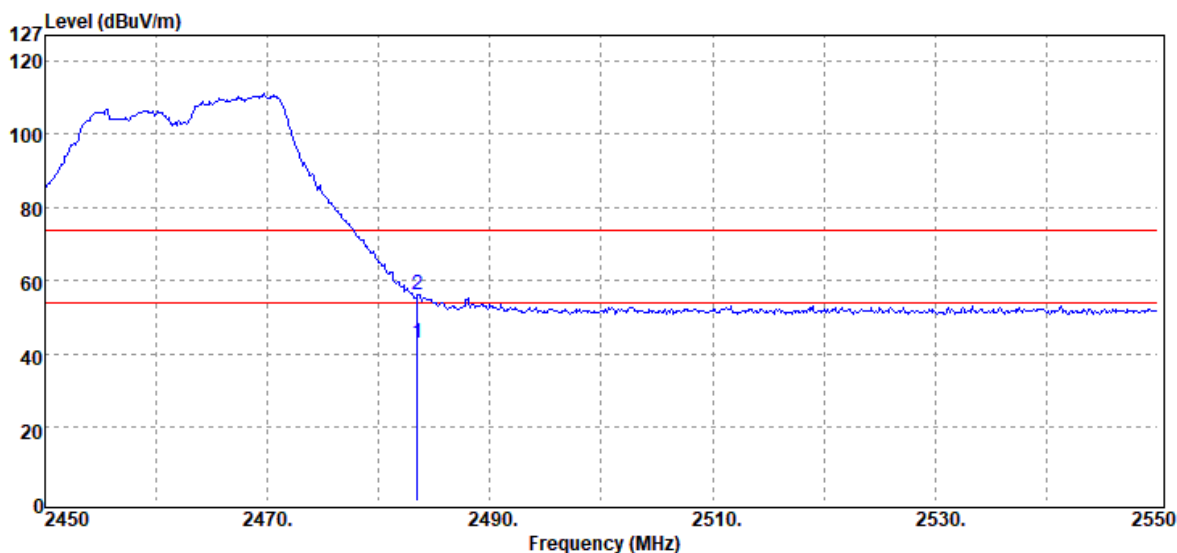
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.48	0.54	43.02	54.00	-10.98
2483.50	Peak	55.57	0.54	56.11	74.00	-17.89

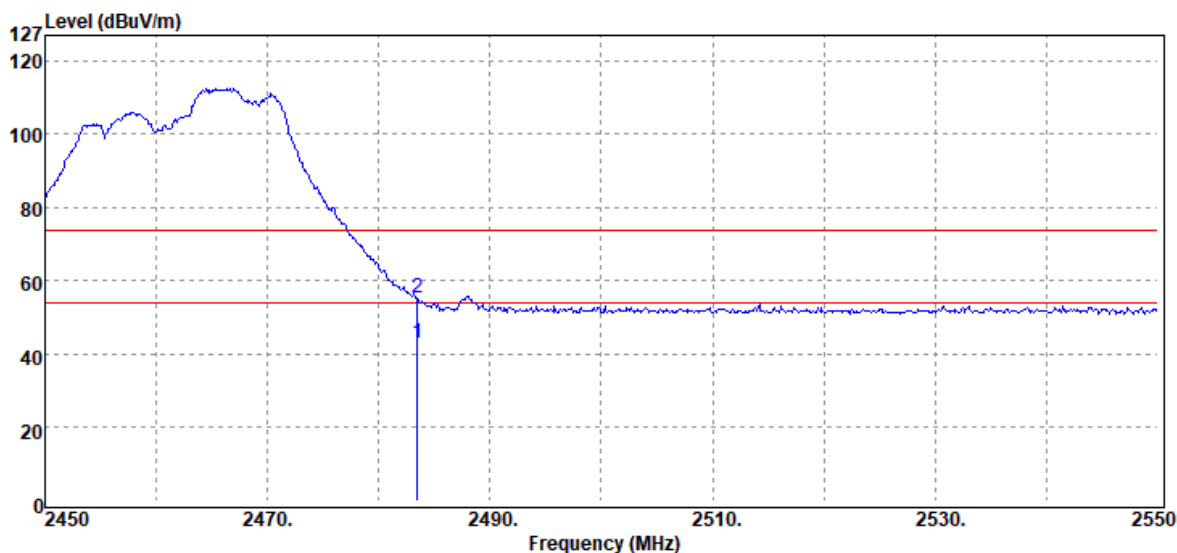
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.33	0.54	42.87	54.00	-11.13
2483.50	Peak	54.75	0.54	55.29	74.00	-18.71

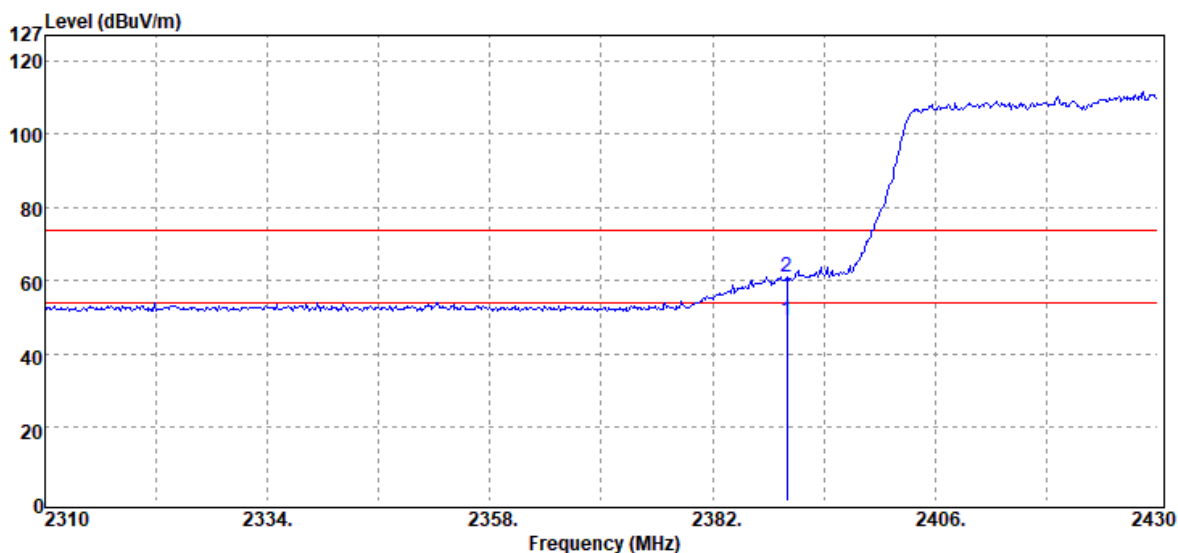
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	48.59	0.76	49.35	54.00	-4.65
2390.00	Peak	60.15	0.76	60.91	74.00	-13.09

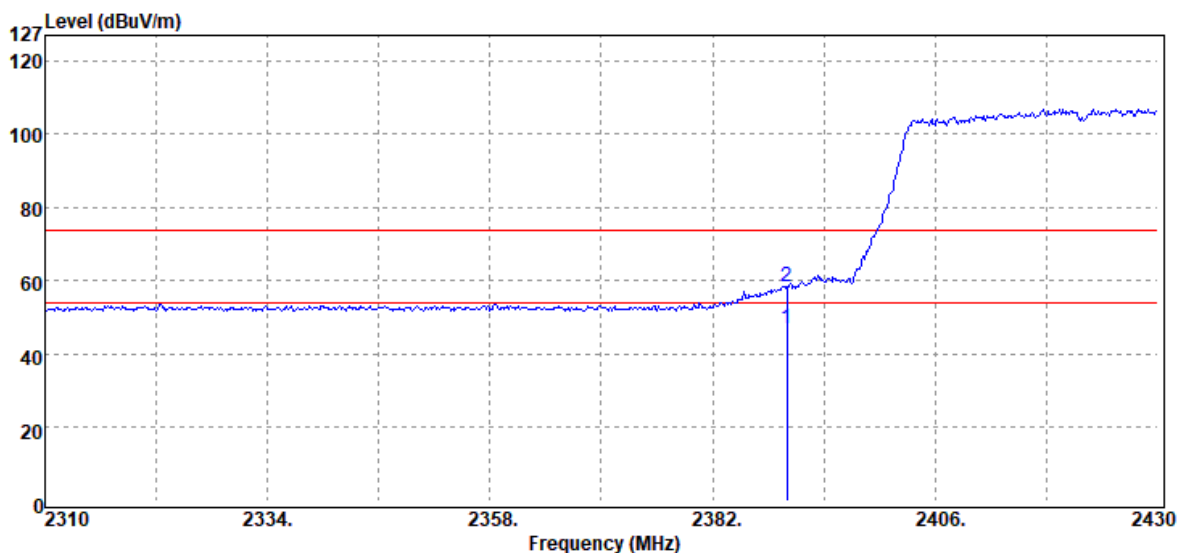
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	46.35	0.76	47.11	54.00	-6.89
2390.00	Peak	57.57	0.76	58.33	74.00	-15.67

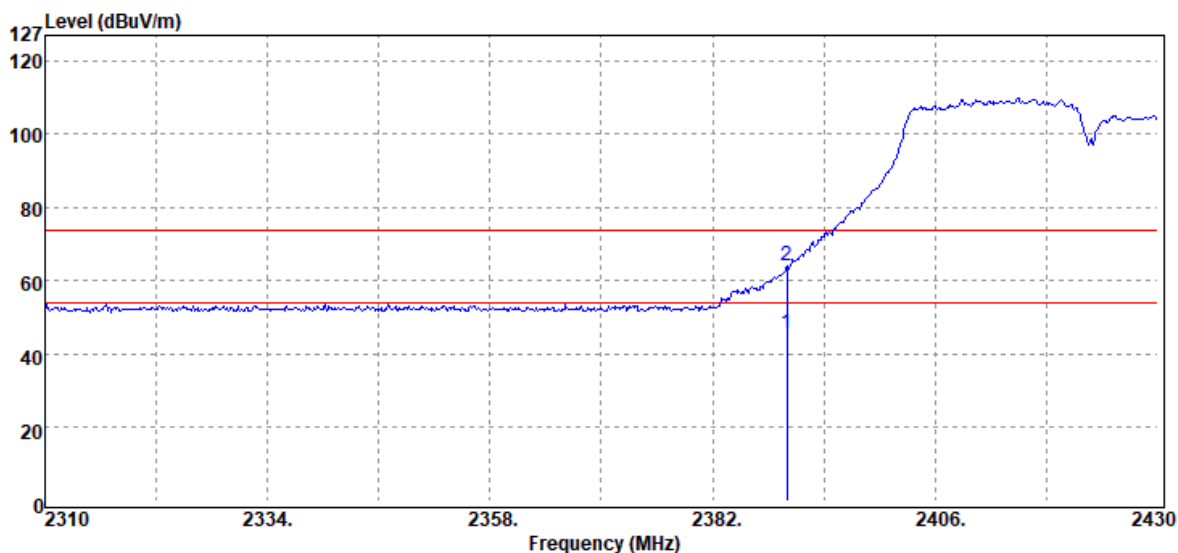
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.11	0.76	45.87	54.00	-8.13
2390.00	Peak	63.60	0.76	64.36	74.00	-9.64

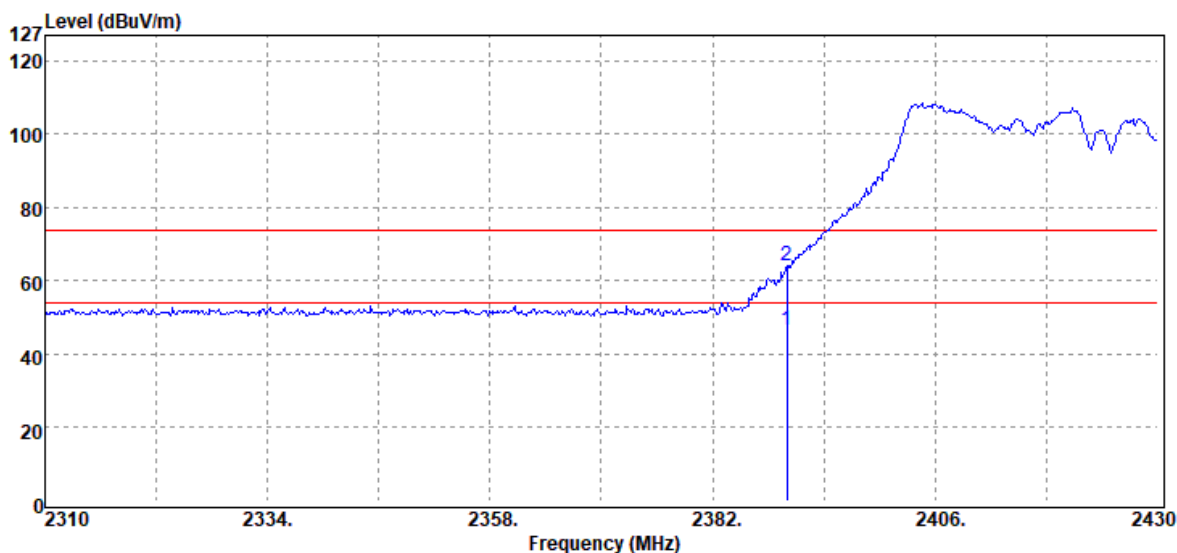
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.69	0.76	46.45	54.00	-7.55
2390.00	Peak	63.29	0.76	64.05	74.00	-9.95

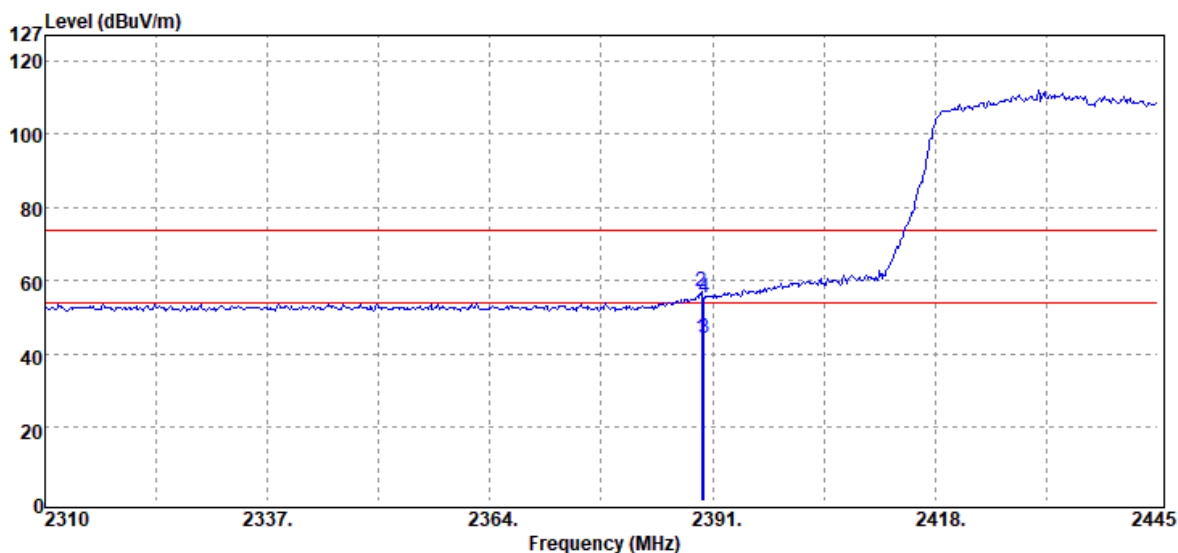
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.65	Average	43.45	0.76	44.21	54.00	-9.79
2389.65	Peak	56.41	0.76	57.17	74.00	-16.83
2390.00	Average	43.55	0.76	44.31	54.00	-9.69
2390.00	Peak	54.83	0.76	55.59	74.00	-18.41

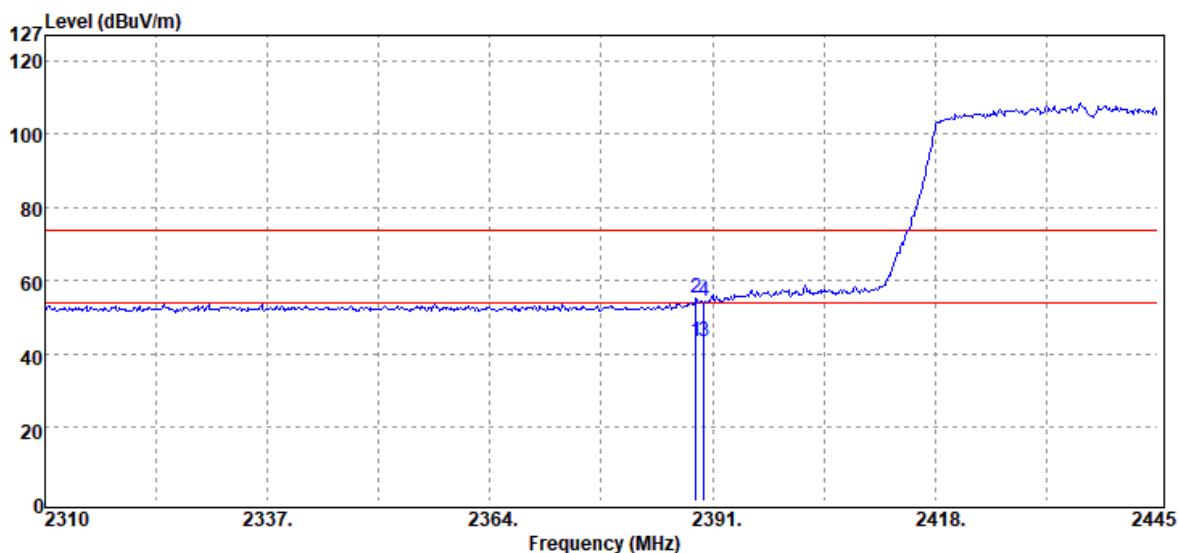
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.98	Average	42.59	0.76	43.35	54.00	-10.65
2388.98	Peak	54.73	0.76	55.49	74.00	-18.51
2390.00	Average	42.89	0.76	43.65	54.00	-10.35
2390.00	Peak	53.71	0.76	54.47	74.00	-19.53

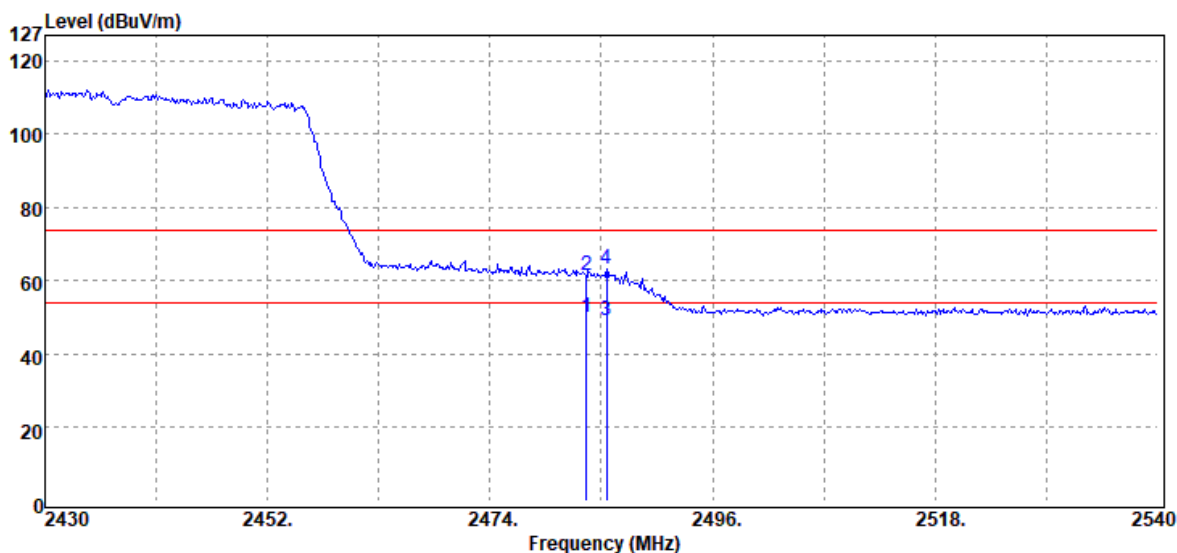
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	49.56	0.54	50.10	54.00	-3.90
2483.50	Peak	60.98	0.54	61.52	74.00	-12.48
2485.55	Average	48.70	0.54	49.24	54.00	-4.76
2485.55	Peak	62.54	0.54	63.08	74.00	-10.92

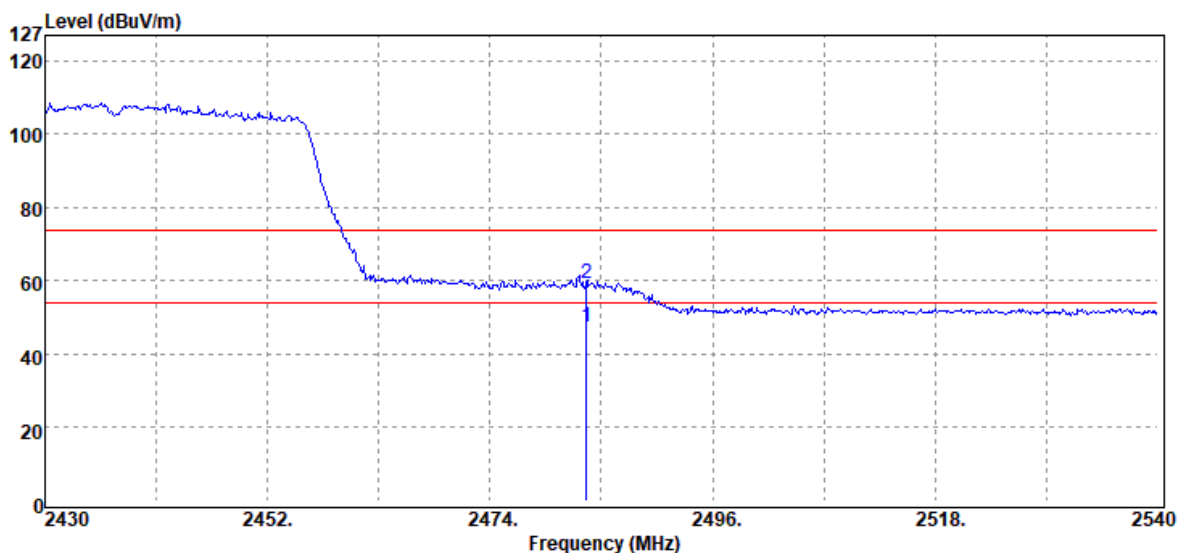
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-02-26
 Temp./Humi. :22.2/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.79	0.54	47.33	54.00	-6.67
2483.50	Peak	58.59	0.54	59.13	74.00	-14.87

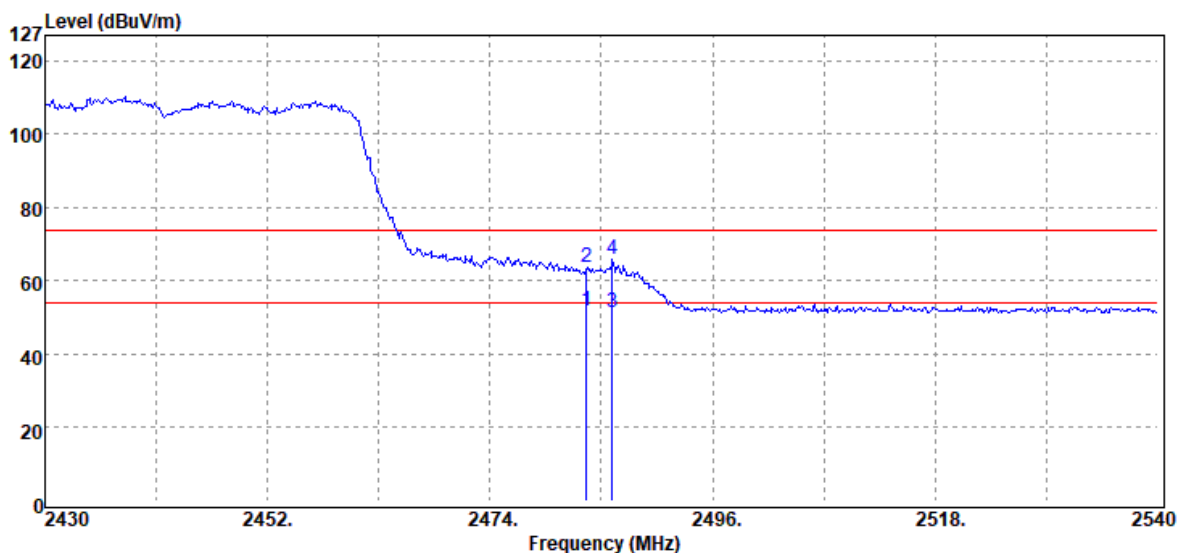
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.38	0.54	51.92	54.00	-2.08
2483.50	Peak	63.23	0.54	63.77	74.00	-10.23
2486.10	Average	50.87	0.54	51.41	54.00	-2.59
2486.10	Peak	65.43	0.54	65.97	74.00	-8.03

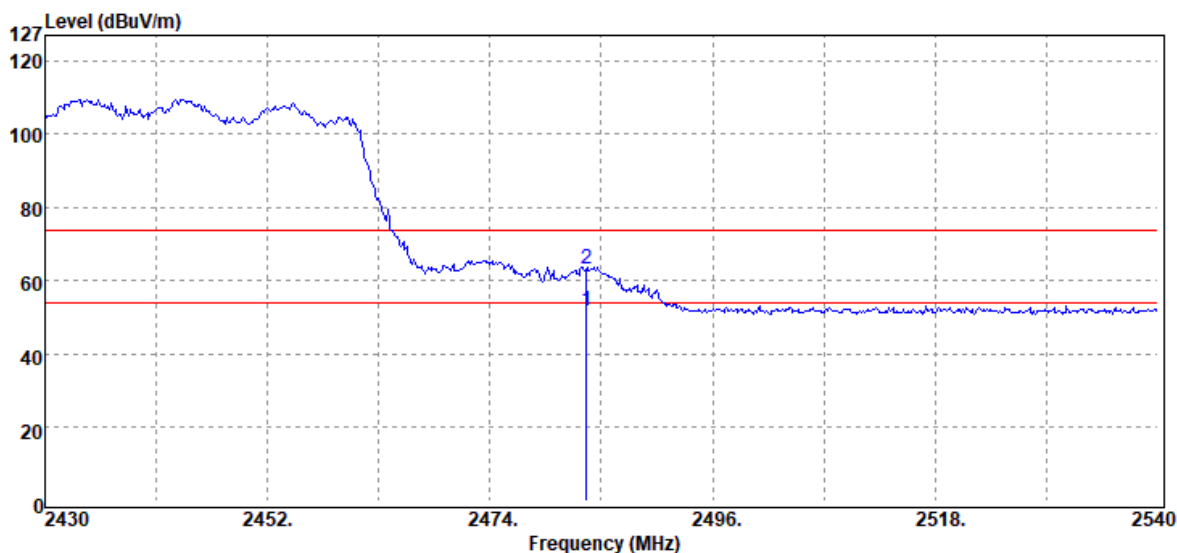
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.12	0.54	51.66	54.00	-2.34
2483.50	Peak	62.81	0.54	63.35	74.00	-10.65

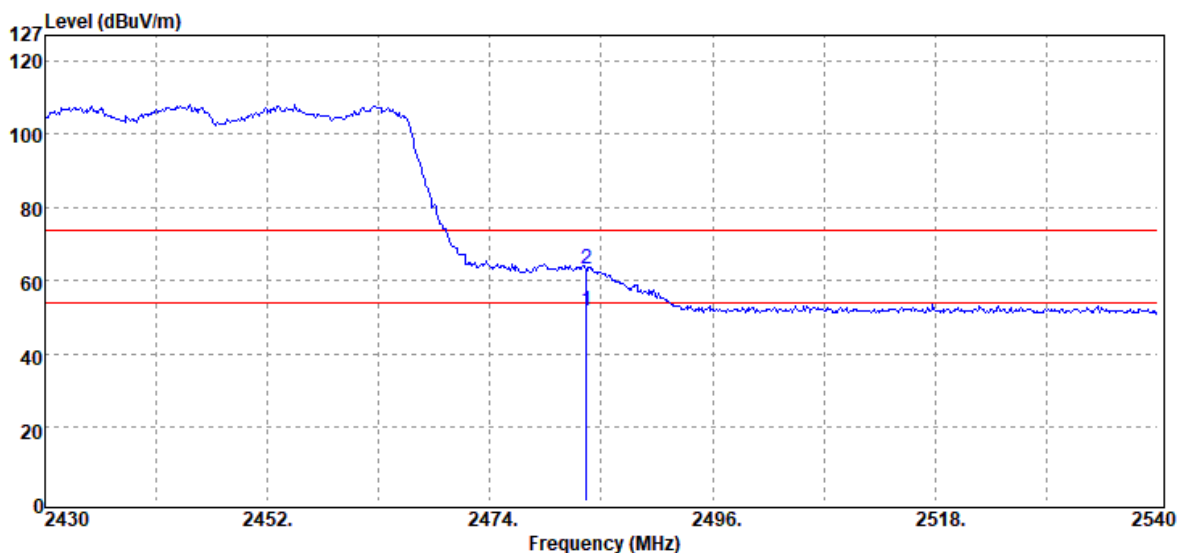
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.25	0.54	51.79	54.00	-2.21
2483.50	Peak	62.94	0.54	63.48	74.00	-10.52

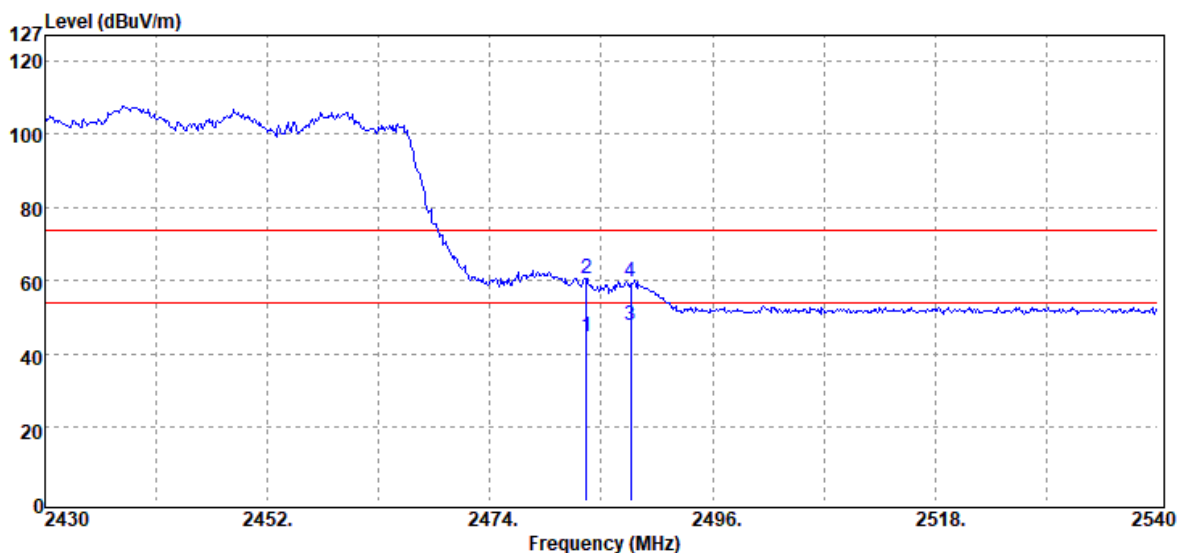
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.38	0.54	44.92	54.00	-9.08
2483.50	Peak	60.05	0.54	60.59	74.00	-13.41
2487.90	Average	47.30	0.53	47.83	54.00	-6.17
2487.90	Peak	59.26	0.53	59.79	74.00	-14.21

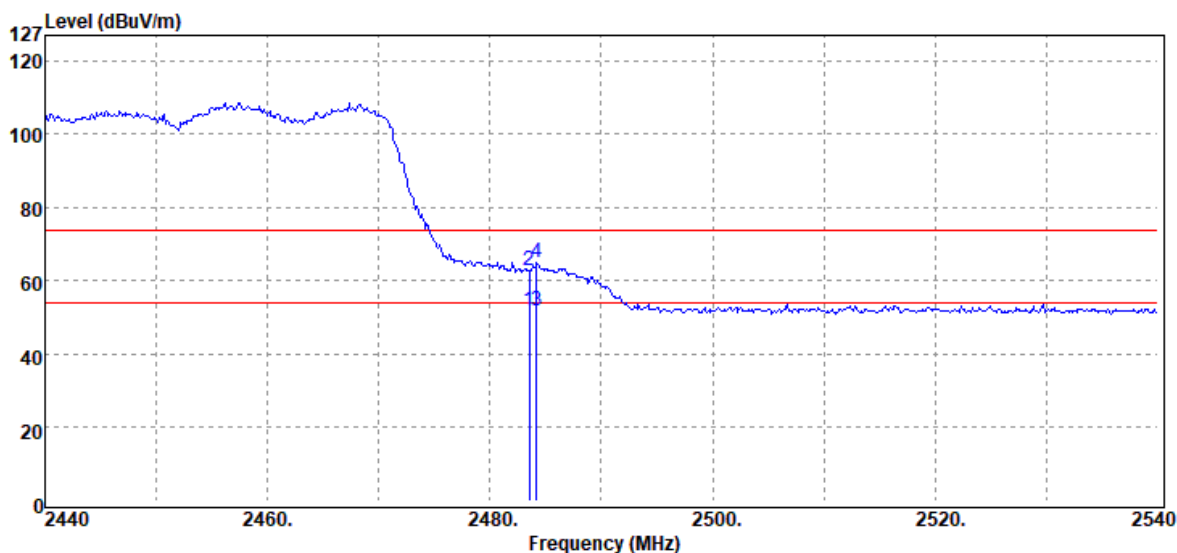
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.23	0.54	51.77	54.00	-2.23
2483.50	Peak	62.48	0.54	63.02	74.00	-10.98
2484.20	Average	51.30	0.54	51.84	54.00	-2.16
2484.20	Peak	64.33	0.54	64.87	74.00	-9.13

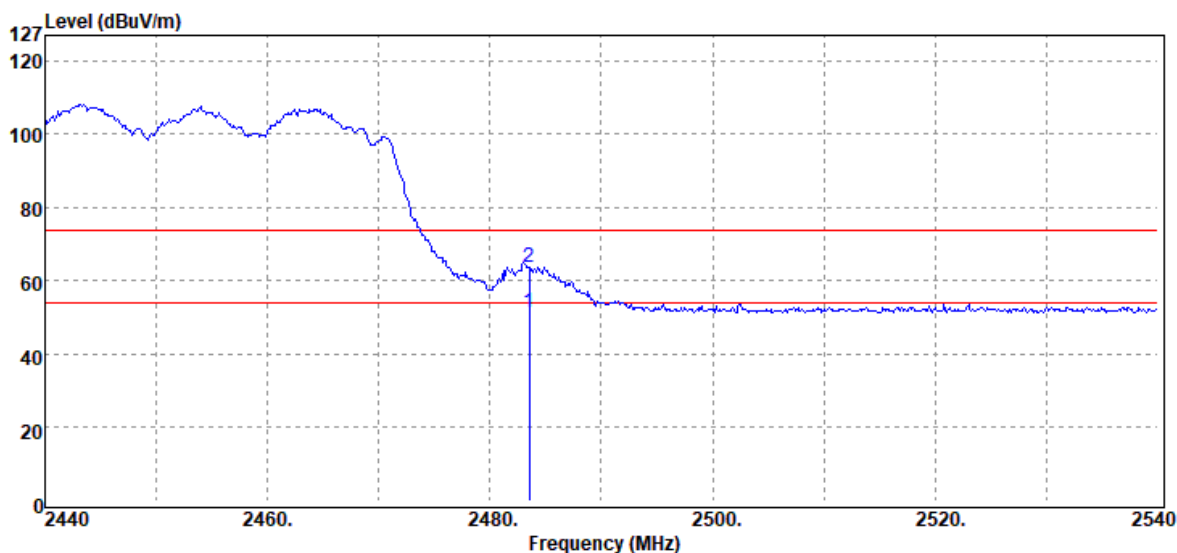
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.02	0.54	51.56	54.00	-2.44
2483.50	Peak	63.20	0.54	63.74	74.00	-10.26

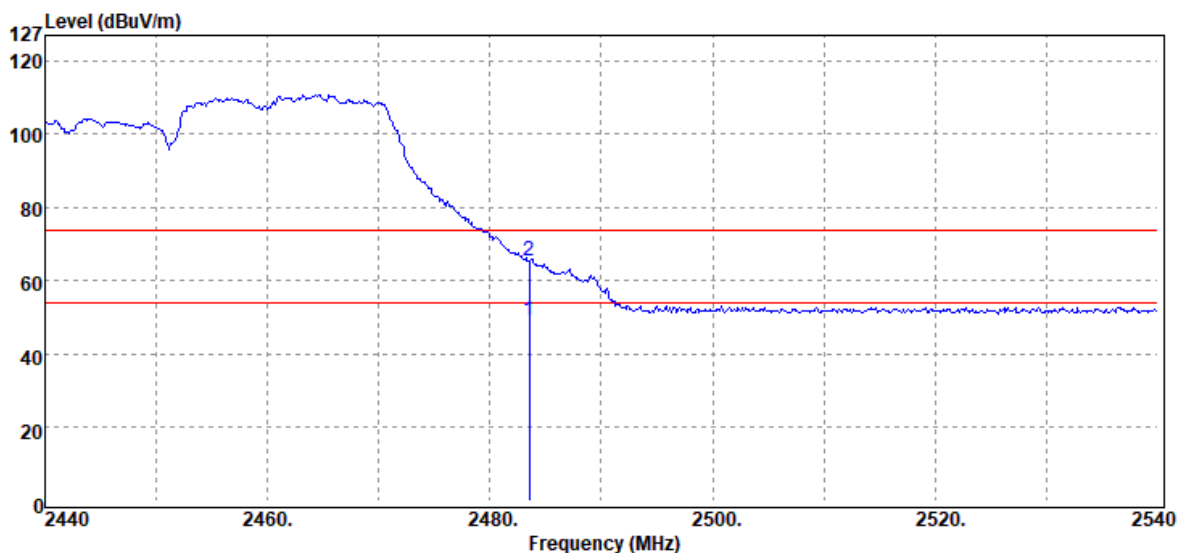
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	48.64	0.54	49.18	54.00	-4.82
2483.50	Peak	64.78	0.54	65.32	74.00	-8.68

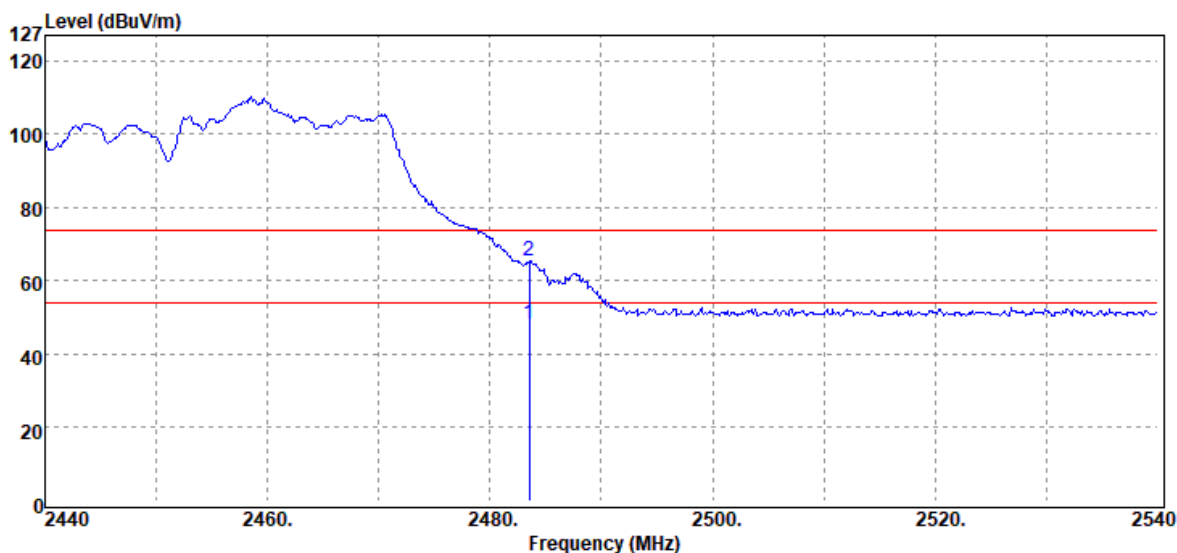
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-02
 Temp./Humi. :21.9/57
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.62	0.54	48.16	54.00	-5.84
2483.50	Peak	64.97	0.54	65.51	74.00	-8.49

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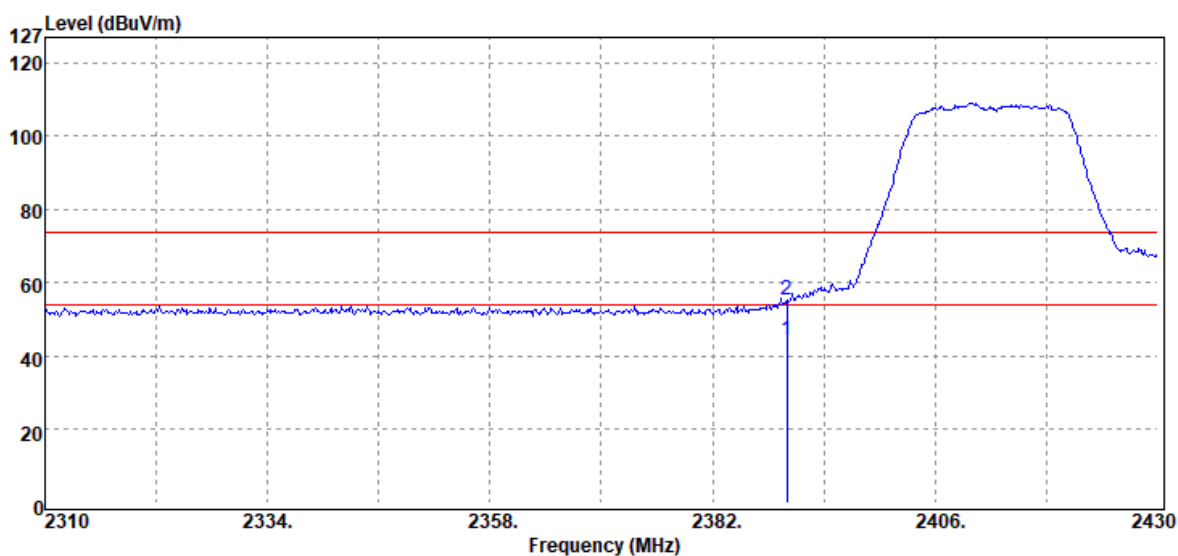
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Beamforming

Report Number :ER-2021-20091
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Site :SAC III Chamber
Test Date :2021-03-15
Temp./Humi. :22.4/61
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.59	0.76	44.35	54.00	-9.65
2390.00	Peak	54.41	0.76	55.17	74.00	-18.83

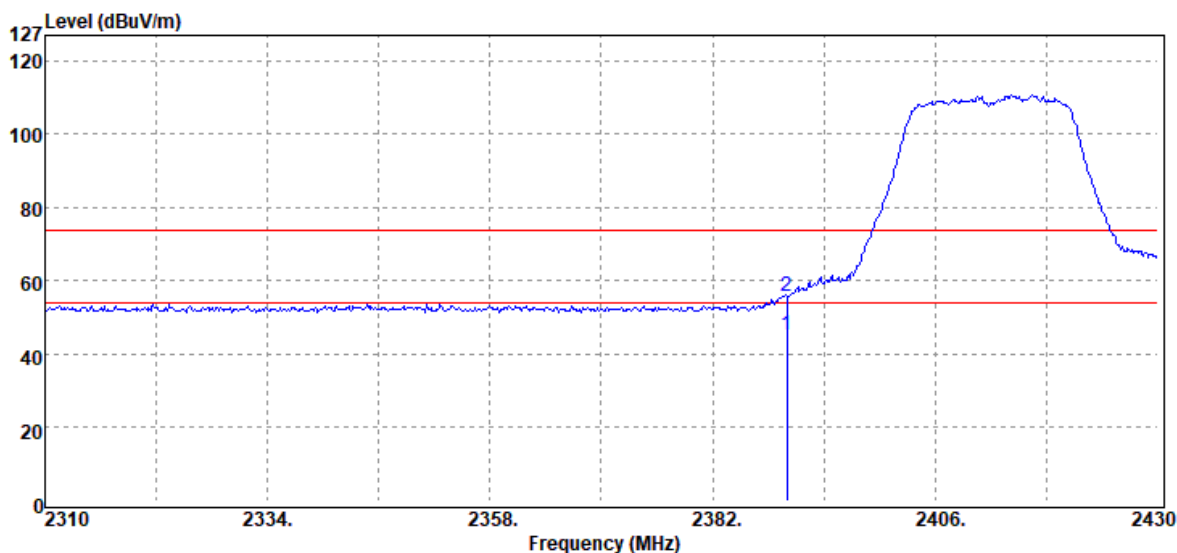
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.30	0.76	45.06	54.00	-8.94
2390.00	Peak	55.08	0.76	55.84	74.00	-18.16

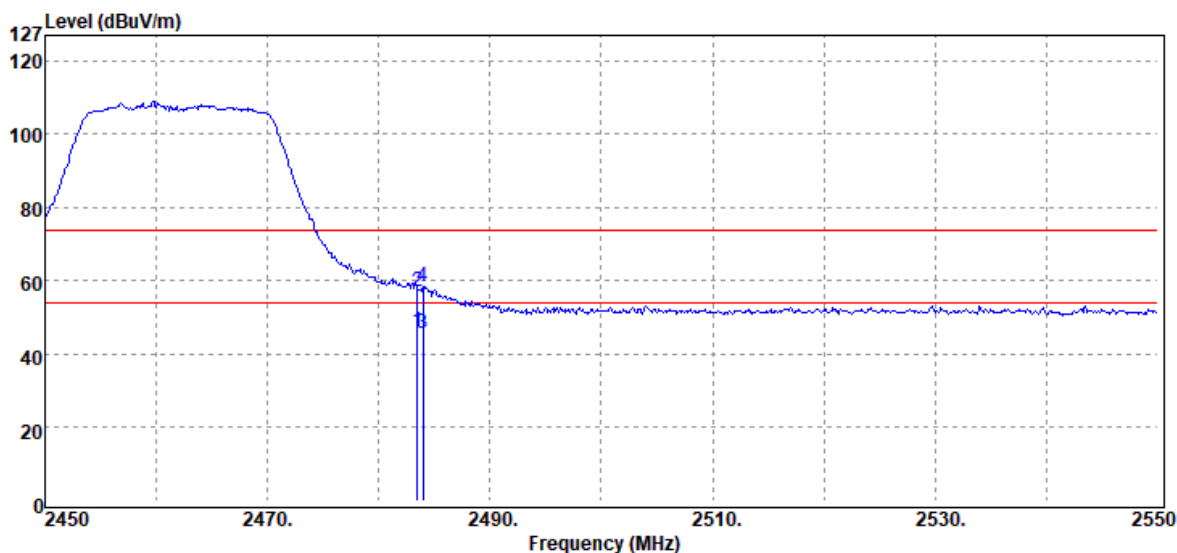
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.41	0.54	45.95	54.00	-8.05
2483.50	Peak	56.69	0.54	57.23	74.00	-16.77
2484.00	Average	45.04	0.54	45.58	54.00	-8.42
2484.00	Peak	58.06	0.54	58.60	74.00	-15.40

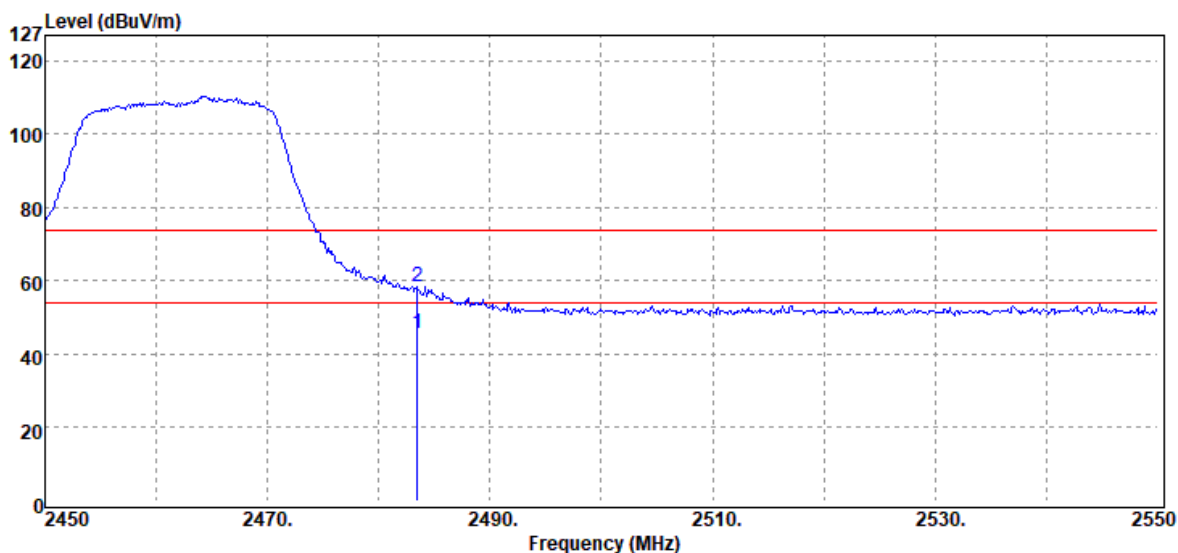
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.31	0.54	45.85	54.00	-8.15
2483.50	Peak	57.80	0.54	58.34	74.00	-15.66

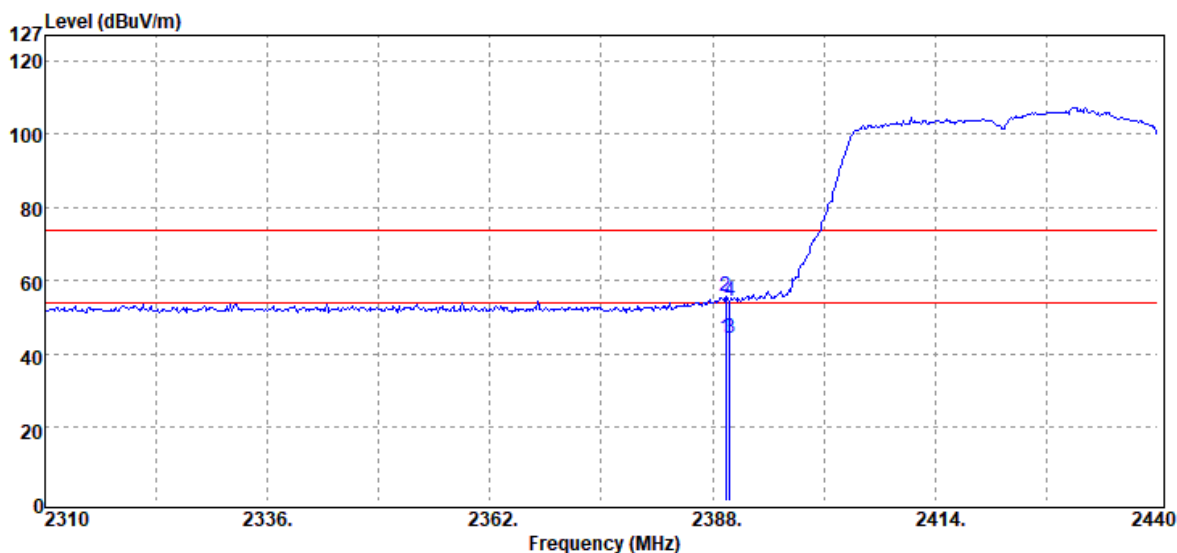
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.56	Average	43.55	0.76	44.31	54.00	-9.69
2389.56	Peak	54.88	0.76	55.64	74.00	-18.36
2390.00	Average	43.61	0.76	44.37	54.00	-9.63
2390.00	Peak	53.77	0.76	54.53	74.00	-19.47

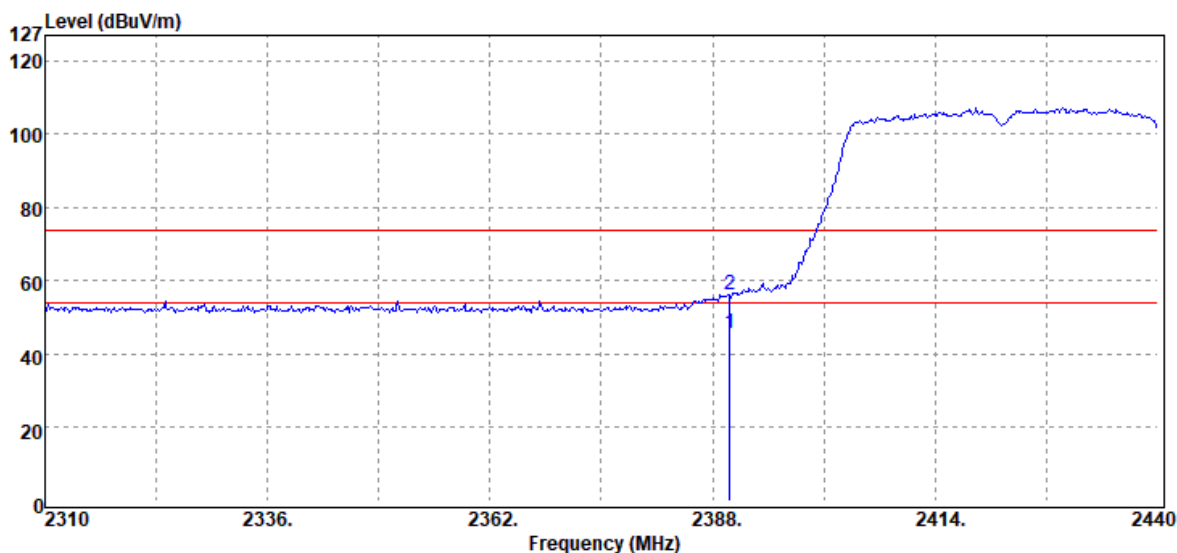
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.96	0.76	45.72	54.00	-8.28
2390.00	Peak	55.34	0.76	56.10	74.00	-17.90

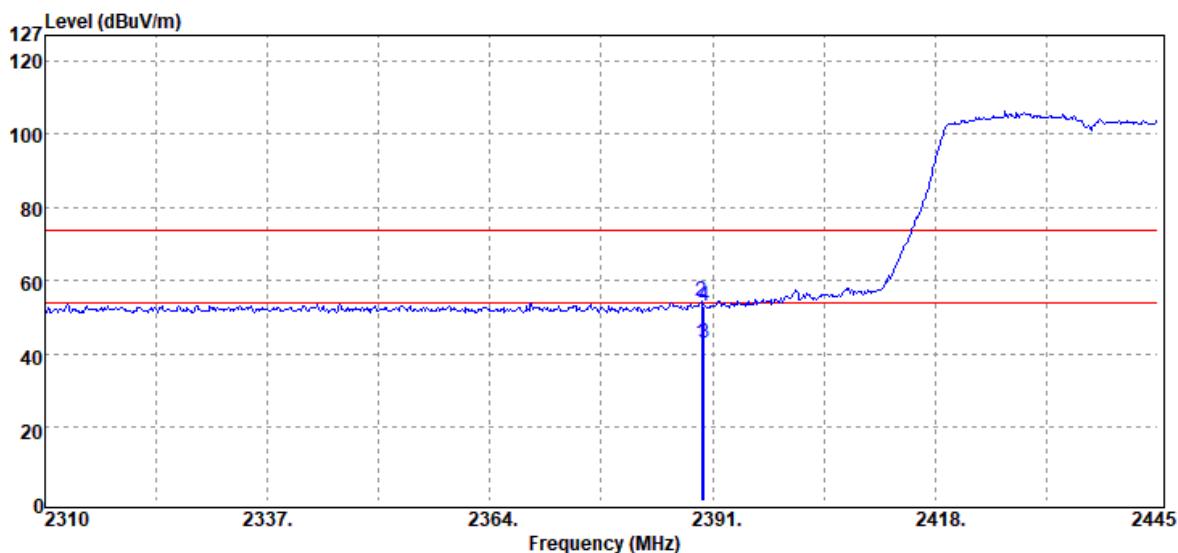
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.65	Average	42.41	0.76	43.17	54.00	-10.83
2389.65	Peak	53.61	0.76	54.37	74.00	-19.63
2390.00	Average	42.45	0.76	43.21	54.00	-10.79
2390.00	Peak	52.26	0.76	53.02	74.00	-20.98

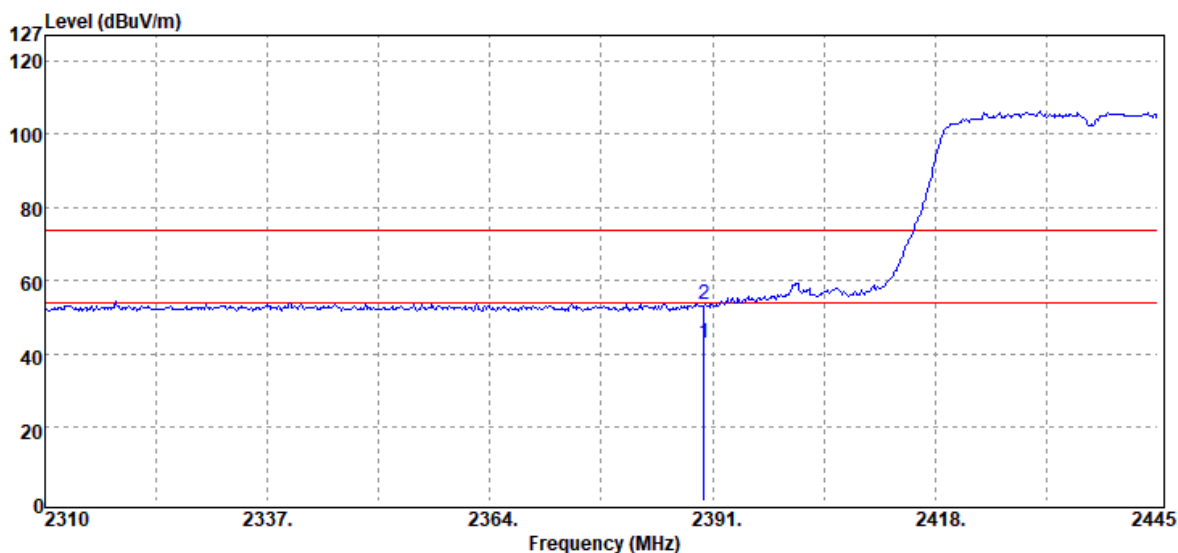
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	42.21	0.76	42.97	54.00	-11.03
2390.00	Peak	52.71	0.76	53.47	74.00	-20.53

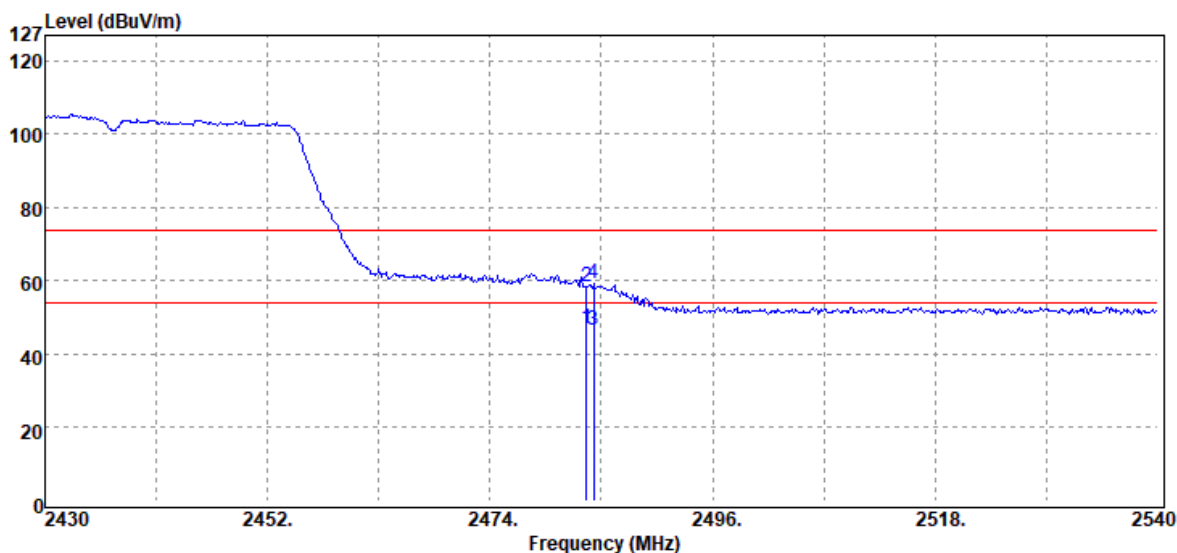
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.35	0.54	46.89	54.00	-7.11
2483.50	Peak	57.92	0.54	58.46	74.00	-15.54
2484.23	Average	45.99	0.54	46.53	54.00	-7.47
2484.23	Peak	58.79	0.54	59.33	74.00	-14.67

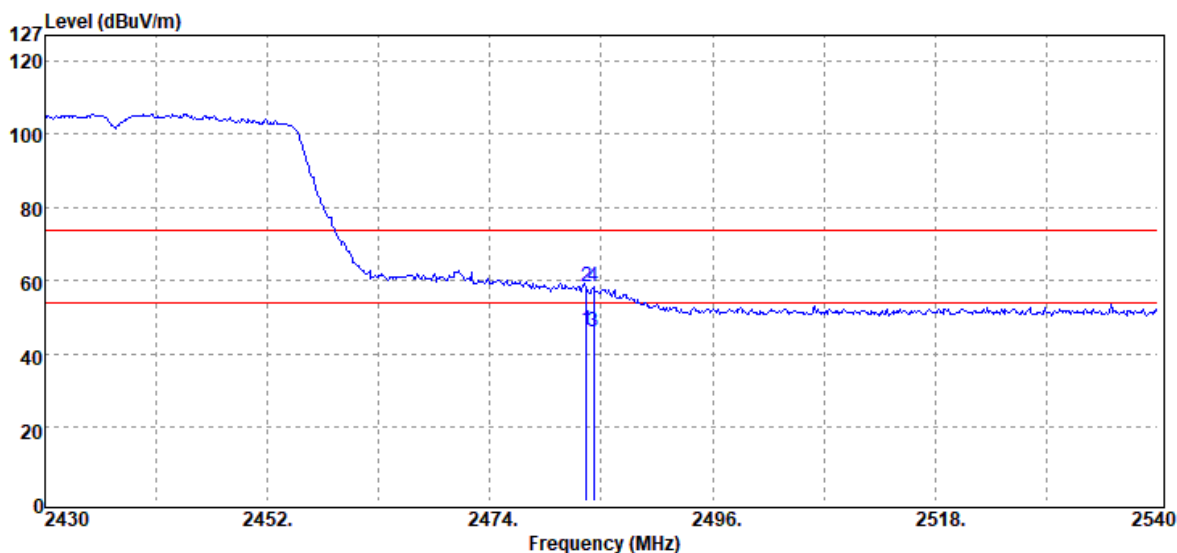
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.11	0.54	46.65	54.00	-7.35
2483.50	Peak	57.91	0.54	58.45	74.00	-15.55
2484.23	Average	45.76	0.54	46.30	54.00	-7.70
2484.23	Peak	57.77	0.54	58.31	74.00	-15.69

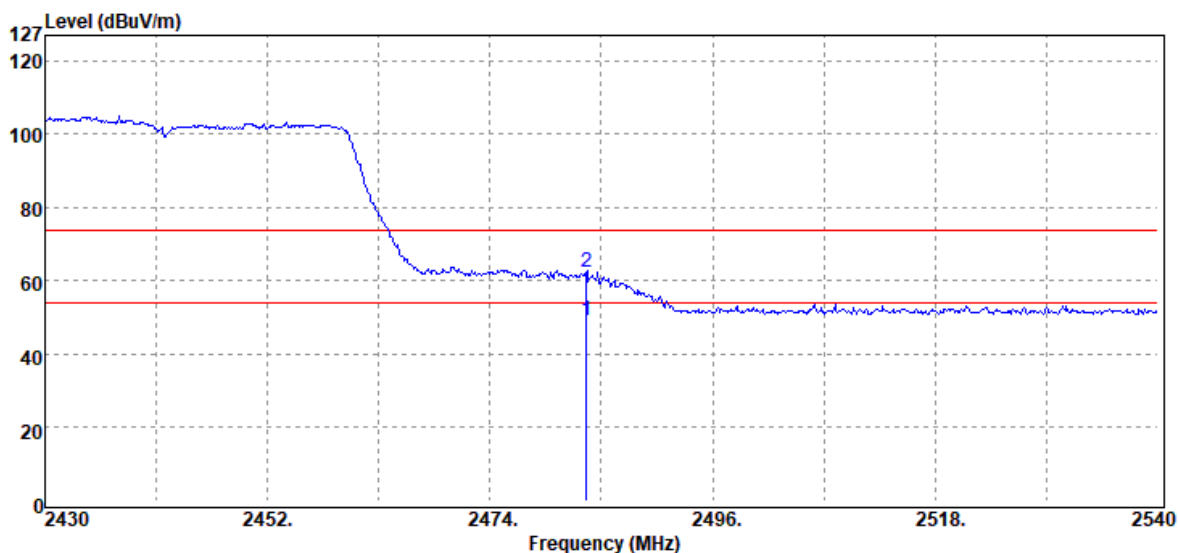
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.66	0.54	49.20	54.00	-4.80
2483.50	Peak	61.75	0.54	62.29	74.00	-11.71

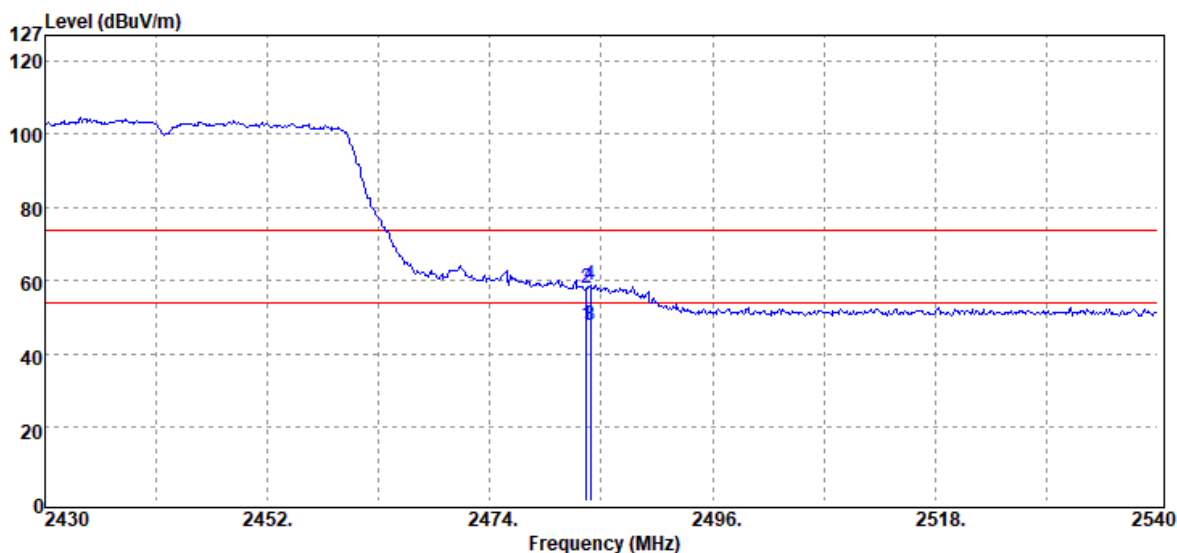
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.25	0.54	47.79	54.00	-6.21
2483.50	Peak	57.66	0.54	58.20	74.00	-15.80
2483.90	Average	47.15	0.54	47.69	54.00	-6.31
2483.90	Peak	58.41	0.54	58.95	74.00	-15.05

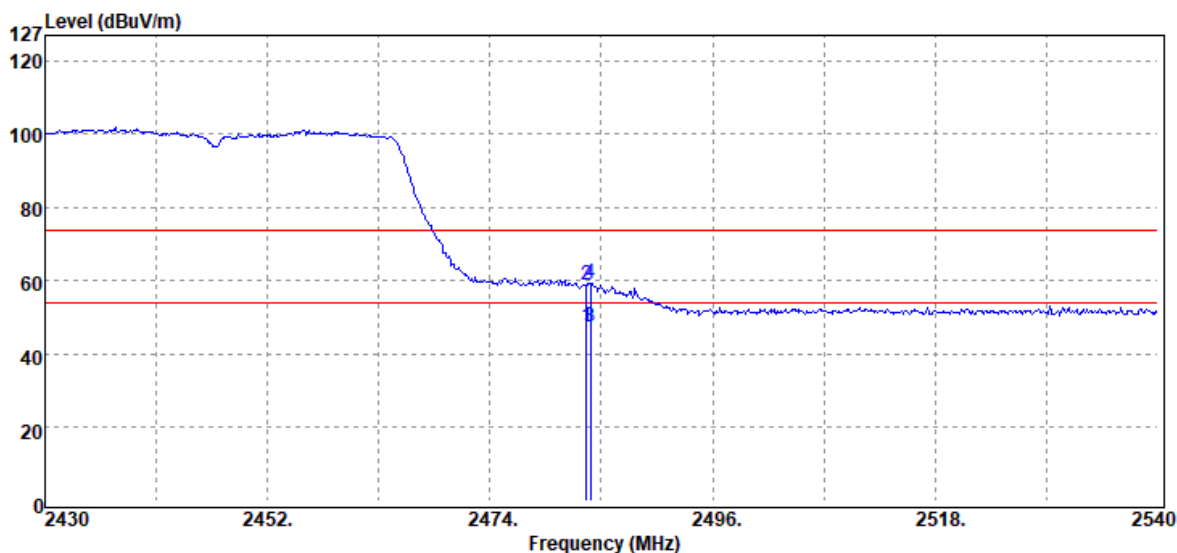
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.05	0.54	47.59	54.00	-6.41
2483.50	Peak	58.55	0.54	59.09	74.00	-14.91
2483.90	Average	46.85	0.54	47.39	54.00	-6.61
2483.90	Peak	58.99	0.54	59.53	74.00	-14.47

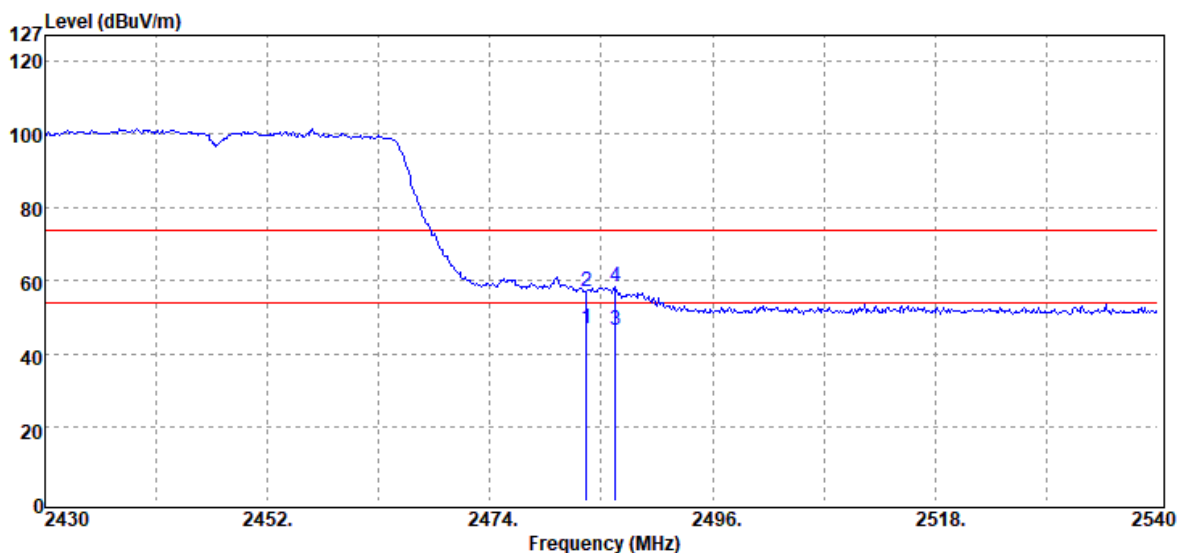
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.52	0.54	47.06	54.00	-6.94
2483.50	Peak	56.67	0.54	57.21	74.00	-16.79
2486.43	Average	45.86	0.54	46.40	54.00	-7.60
2486.43	Peak	57.83	0.54	58.37	74.00	-15.63

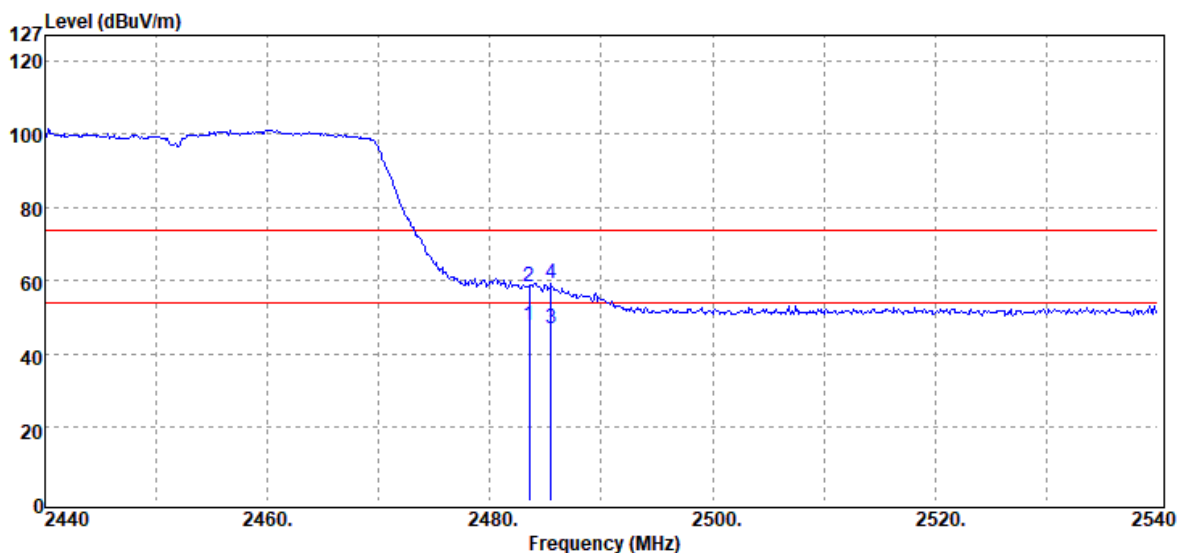
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.19	0.54	47.73	54.00	-6.27
2483.50	Peak	58.12	0.54	58.66	74.00	-15.34
2485.50	Average	46.40	0.54	46.94	54.00	-7.06
2485.50	Peak	58.68	0.54	59.22	74.00	-14.78

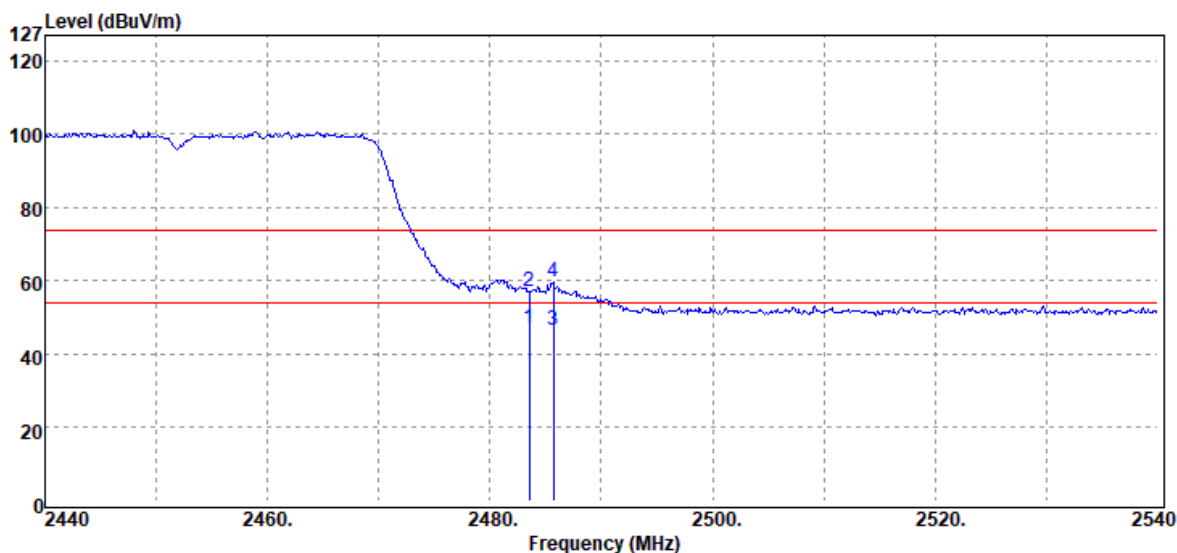
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.61	0.54	47.15	54.00	-6.85
2483.50	Peak	56.46	0.54	57.00	74.00	-17.00
2485.70	Average	46.14	0.54	46.68	54.00	-7.32
2485.70	Peak	59.08	0.54	59.62	74.00	-14.38

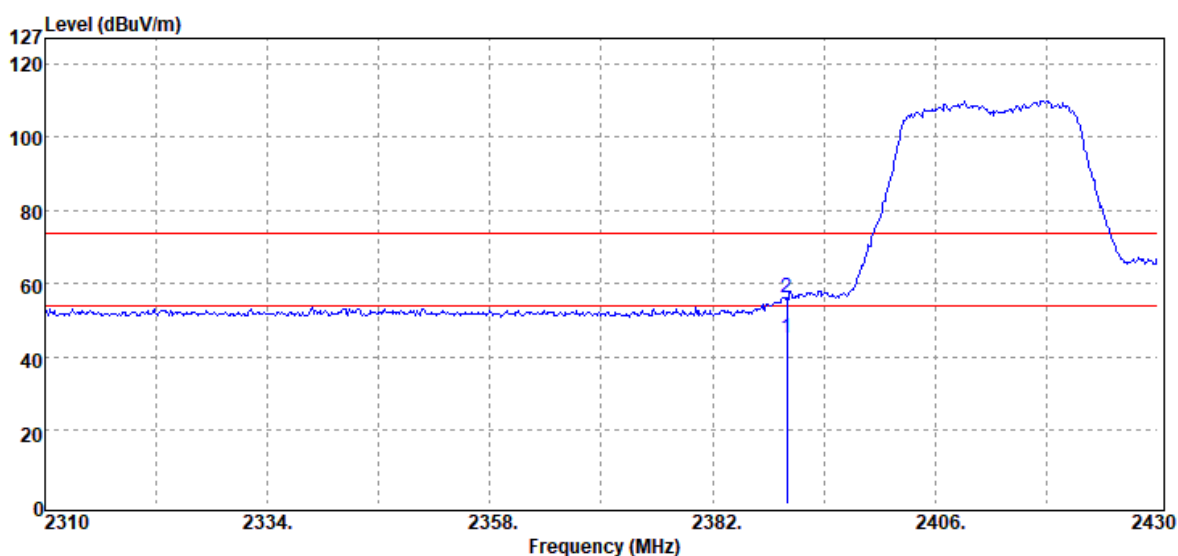
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.36	0.76	45.12	54.00	-8.88
2390.00	Peak	55.39	0.76	56.15	74.00	-17.85

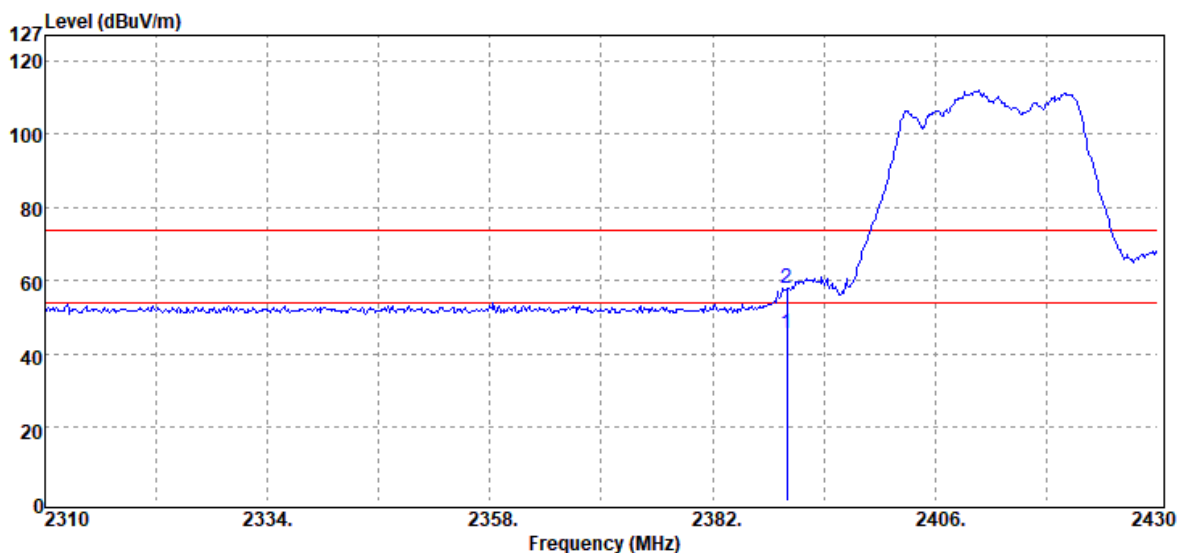
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.98	0.76	45.74	54.00	-8.26
2390.00	Peak	57.13	0.76	57.89	74.00	-16.11

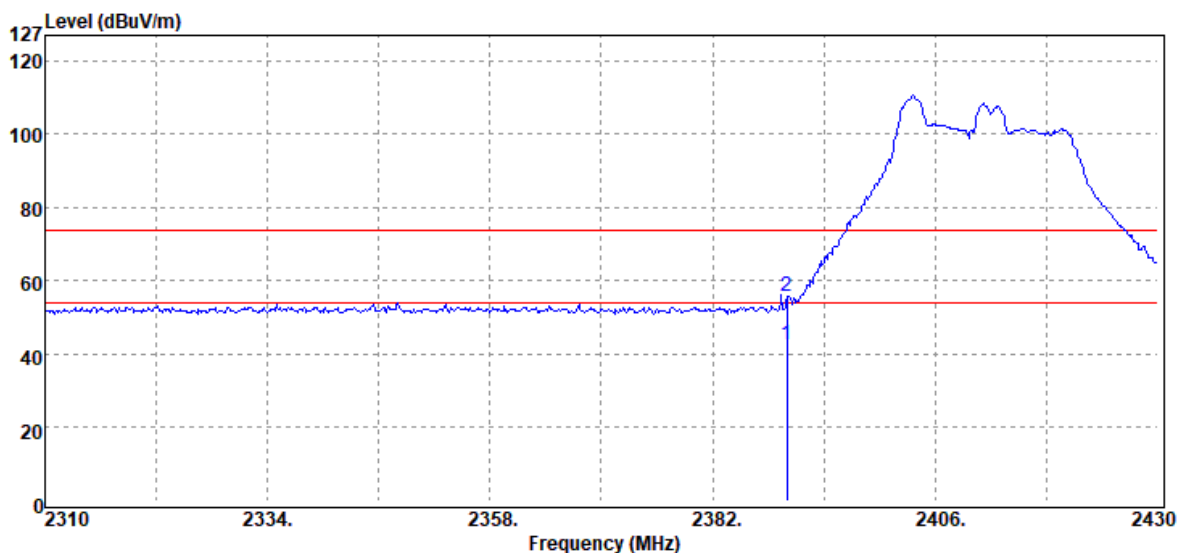
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.72	0.76	42.48	54.00	-11.52
2390.00	Peak	55.16	0.76	55.92	74.00	-18.08

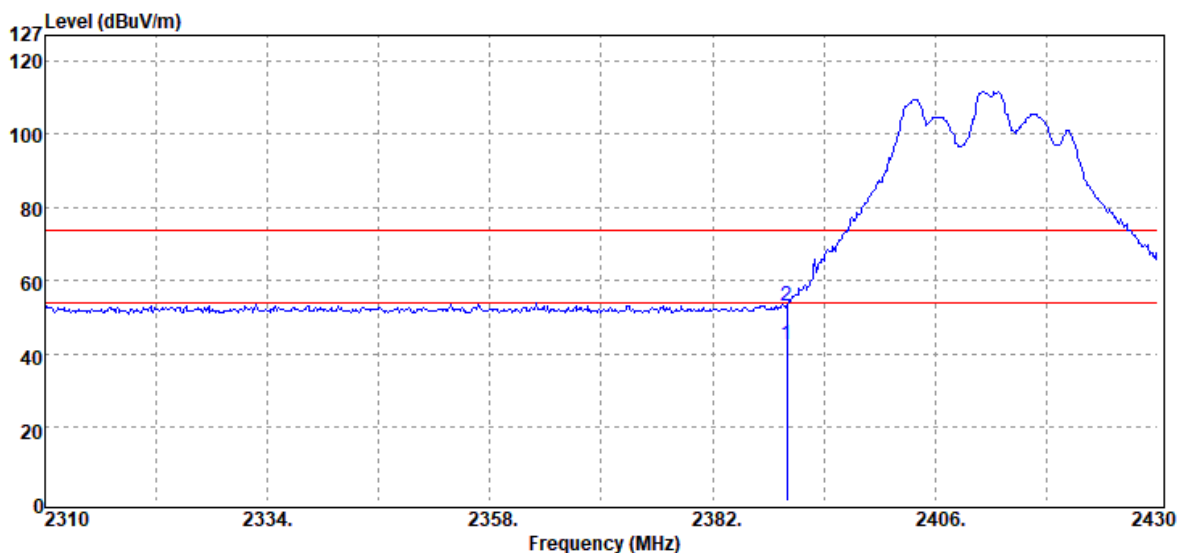
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.83	0.76	42.59	54.00	-11.41
2390.00	Peak	52.44	0.76	53.20	74.00	-20.80

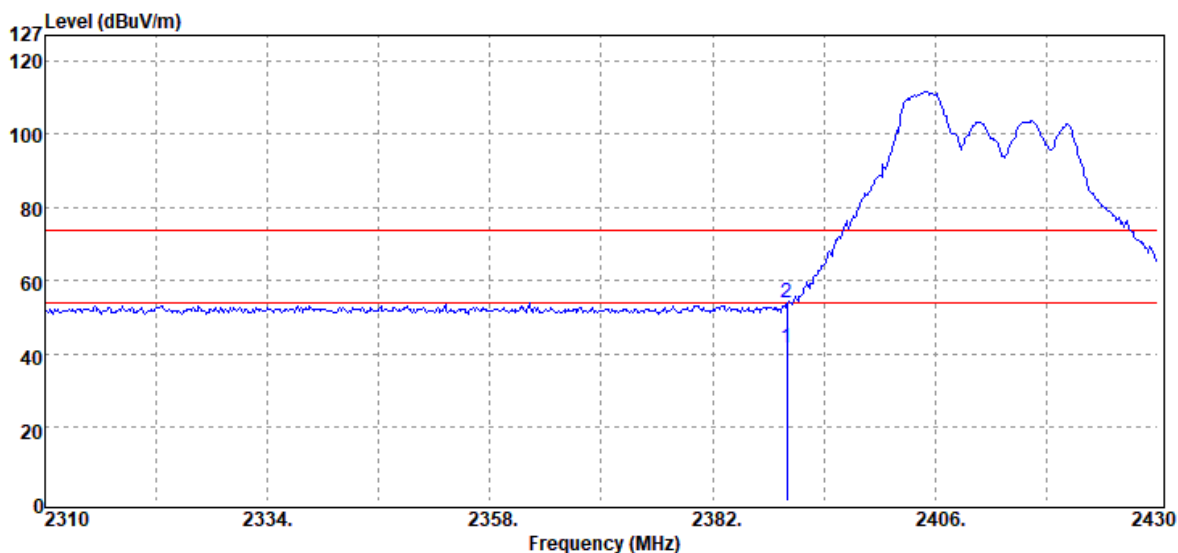
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.15	0.76	41.91	54.00	-12.09
2390.00	Peak	53.09	0.76	53.85	74.00	-20.15

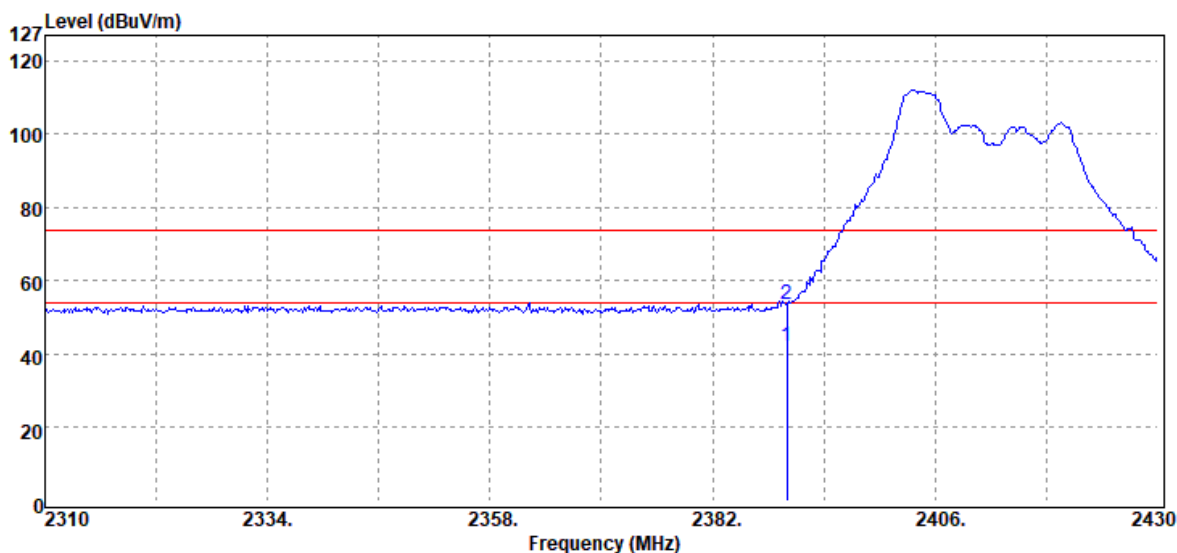
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.56	0.76	42.32	54.00	-11.68
2390.00	Peak	53.05	0.76	53.81	74.00	-20.19

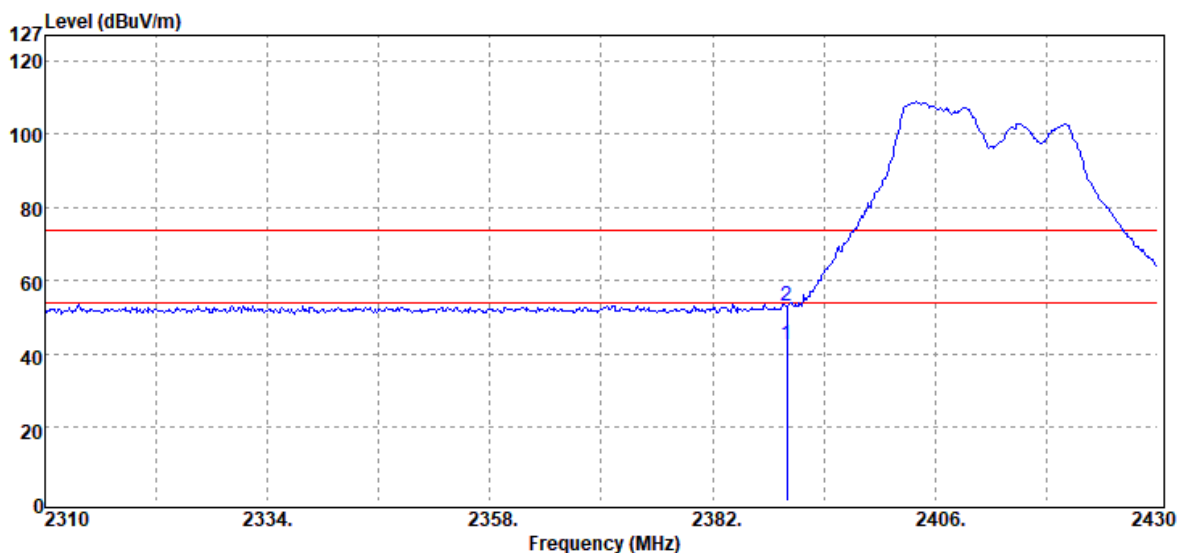
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.67	0.76	42.43	54.00	-11.57
2390.00	Peak	52.45	0.76	53.21	74.00	-20.79

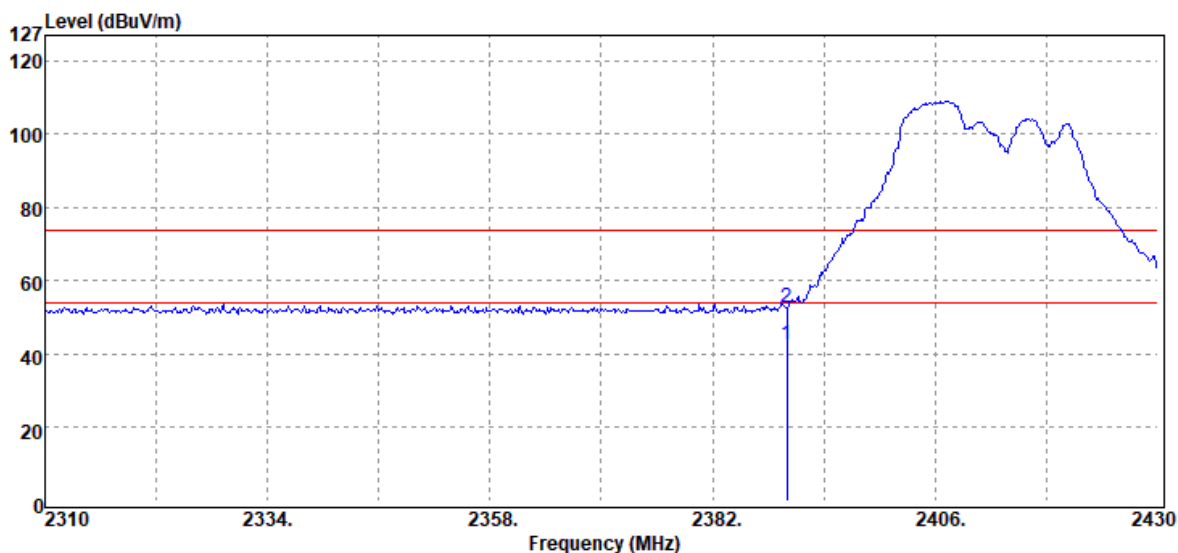
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.69	0.76	42.45	54.00	-11.55
2390.00	Peak	52.14	0.76	52.90	74.00	-21.10

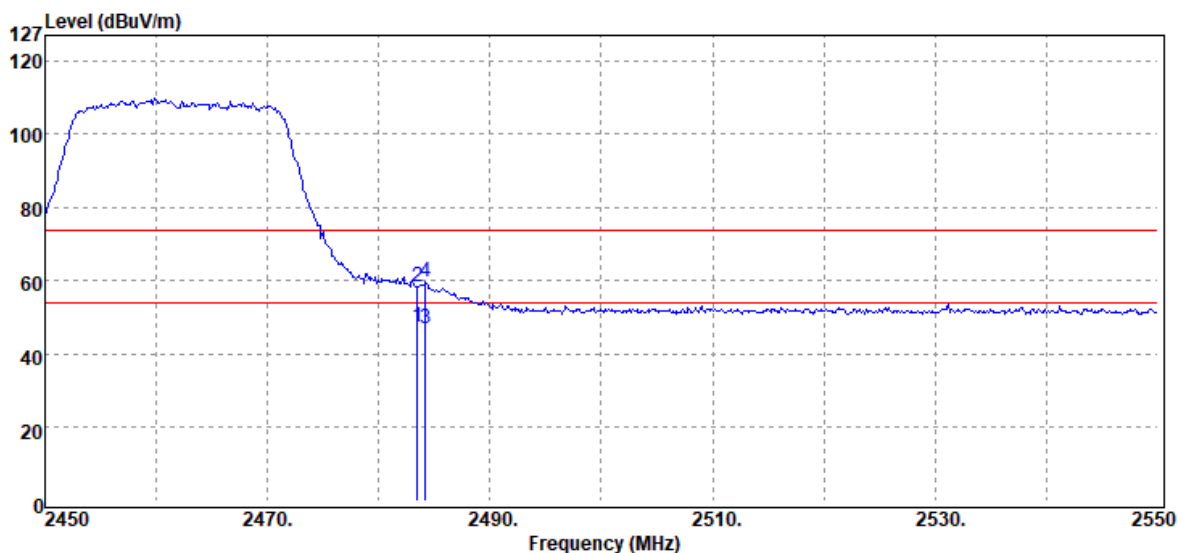
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.83	0.54	47.37	54.00	-6.63
2483.50	Peak	57.89	0.54	58.43	74.00	-15.57
2484.20	Average	46.52	0.54	47.06	54.00	-6.94
2484.20	Peak	59.39	0.54	59.93	74.00	-14.07

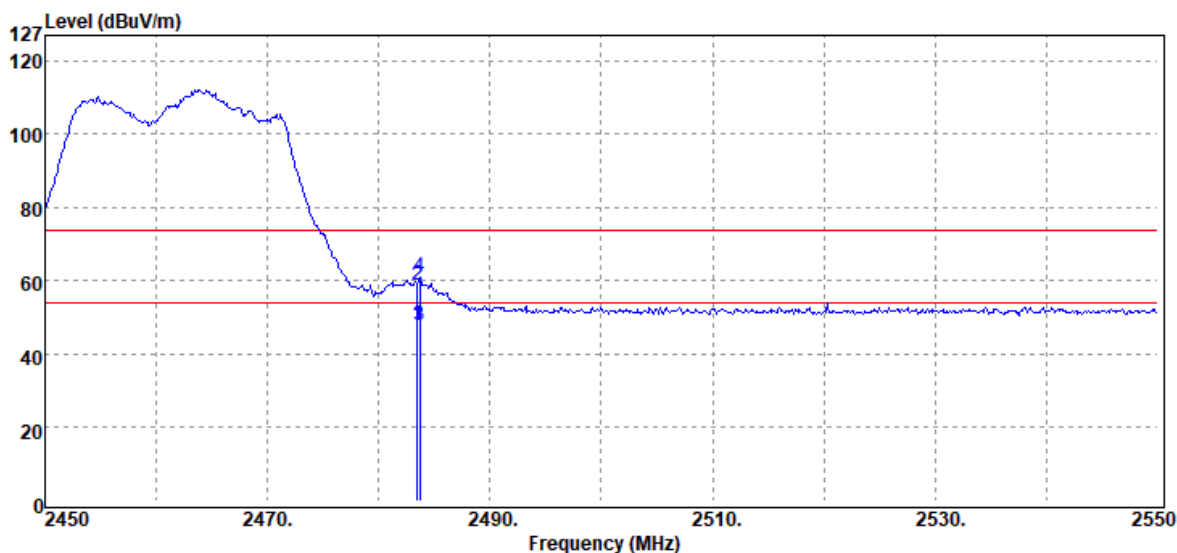
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.54	0.54	48.08	54.00	-5.92
2483.50	Peak	58.25	0.54	58.79	74.00	-15.21
2483.70	Average	47.32	0.54	47.86	54.00	-6.14
2483.70	Peak	60.74	0.54	61.28	74.00	-12.72

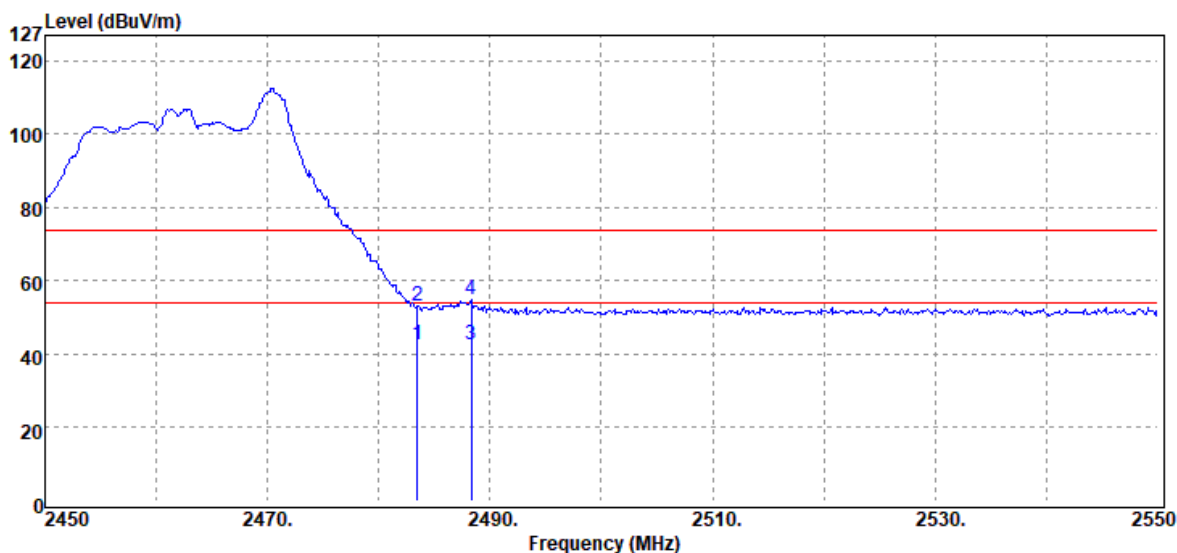
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.88	0.54	42.42	54.00	-11.58
2483.50	Peak	52.82	0.54	53.36	74.00	-20.64
2488.30	Average	42.05	0.53	42.58	54.00	-11.42
2488.30	Peak	54.55	0.53	55.08	74.00	-18.92

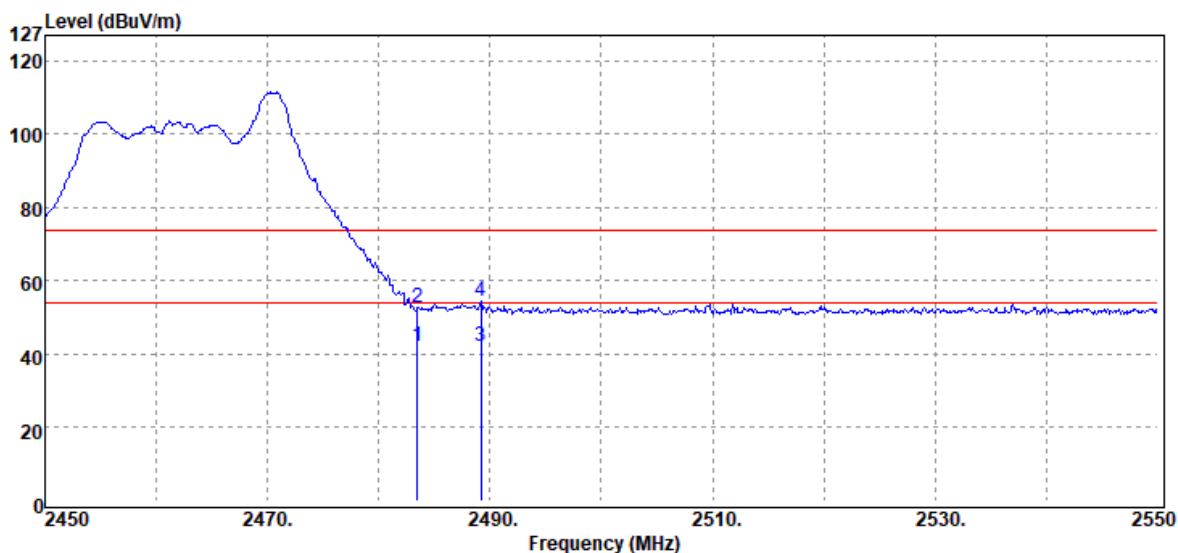
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	41.69	0.54	42.23	54.00	-11.77
2483.50	Peak	52.31	0.54	52.85	74.00	-21.15
2489.20	Average	41.73	0.53	42.26	54.00	-11.74
2489.20	Peak	53.97	0.53	54.50	74.00	-19.50

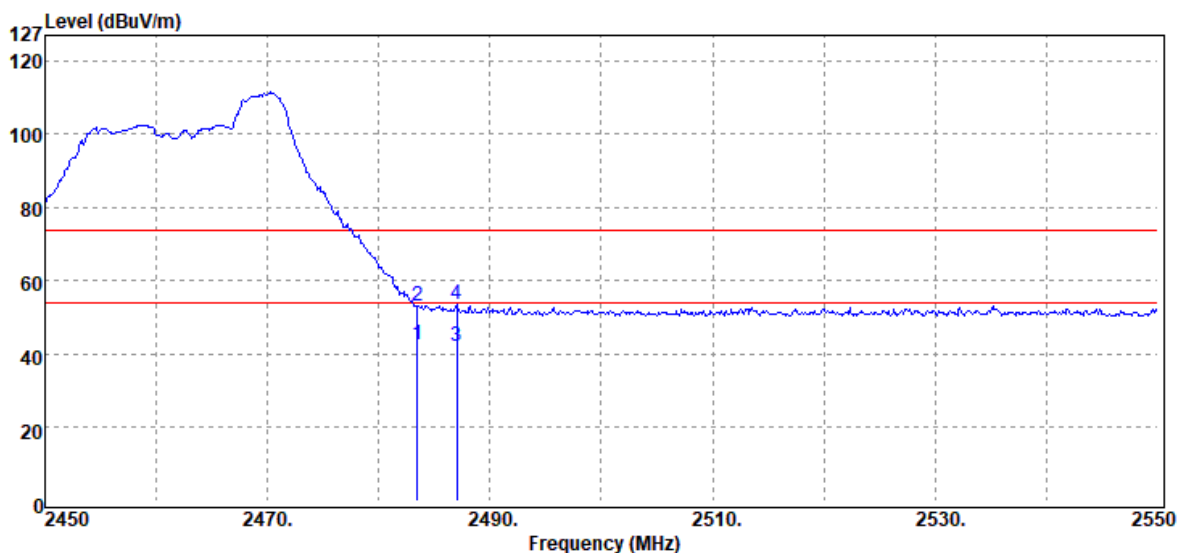
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.02	0.54	42.56	54.00	-11.44
2483.50	Peak	52.66	0.54	53.20	74.00	-20.80
2487.00	Average	41.80	0.54	42.34	54.00	-11.66
2487.00	Peak	52.99	0.54	53.53	74.00	-20.47

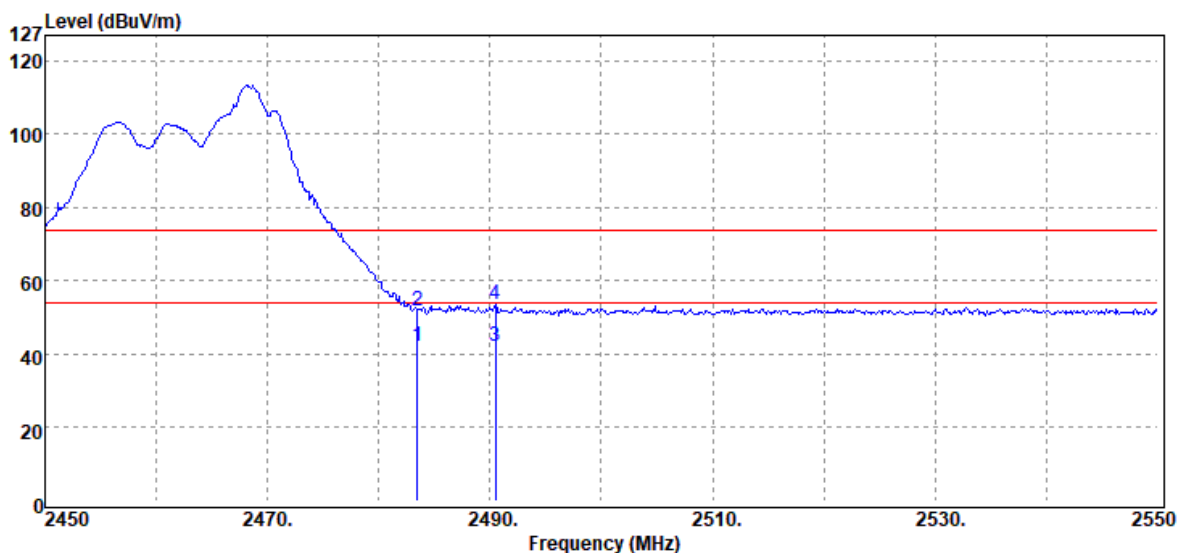
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.59	0.54	42.13	54.00	-11.87
2483.50	Peak	51.52	0.54	52.06	74.00	-21.94
2490.50	Average	41.54	0.53	42.07	54.00	-11.93
2490.50	Peak	53.18	0.53	53.71	74.00	-20.29

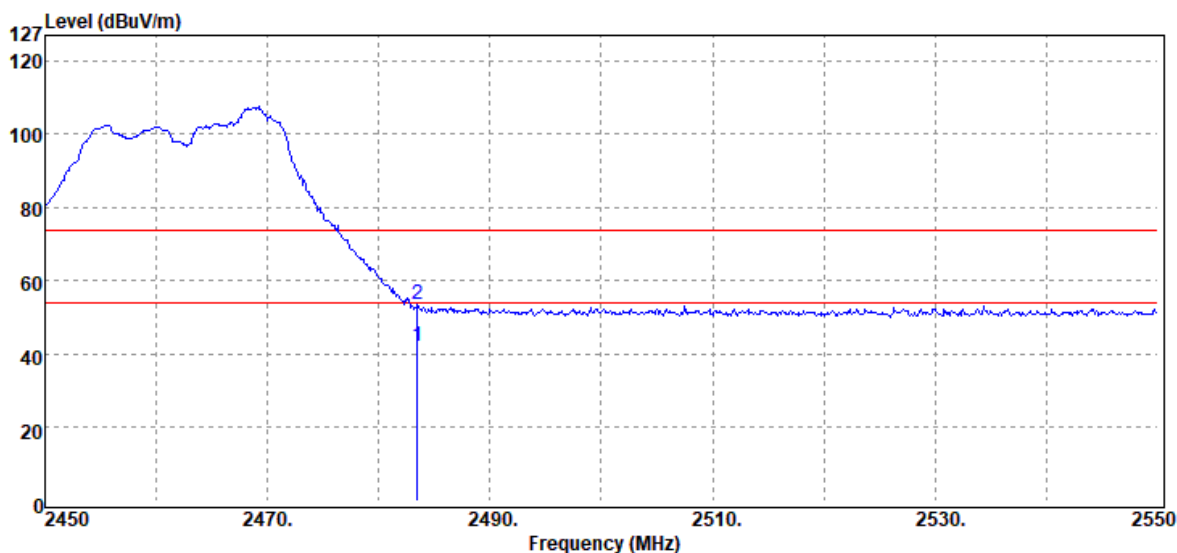
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.75	0.54	42.29	54.00	-11.71
2483.50	Peak	53.04	0.54	53.58	74.00	-20.42

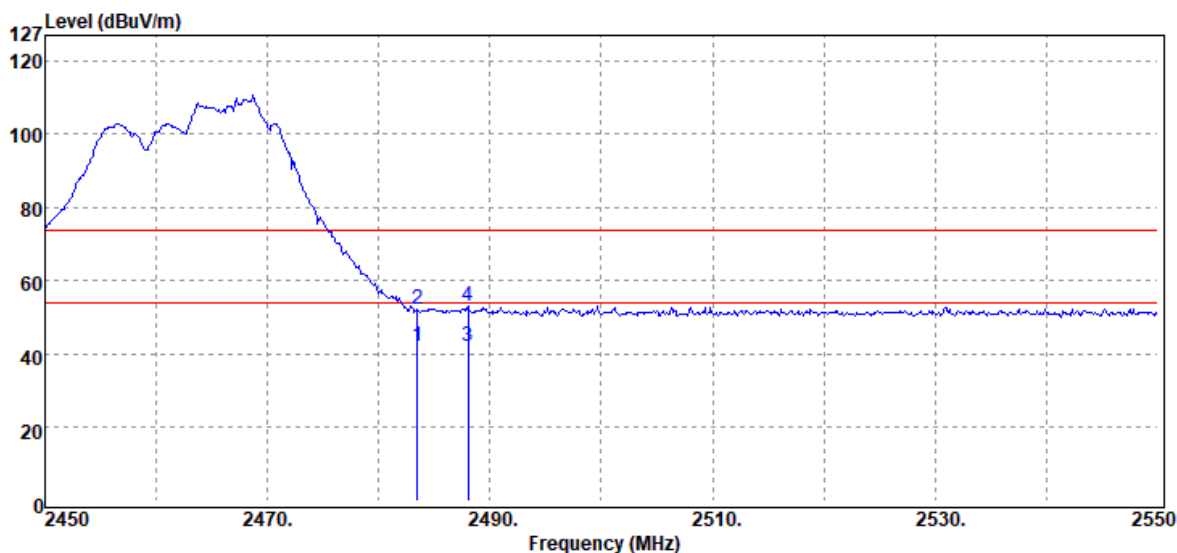
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.59	0.54	42.13	54.00	-11.87
2483.50	Peak	51.66	0.54	52.20	74.00	-21.80
2488.00	Average	41.49	0.53	42.02	54.00	-11.98
2488.00	Peak	52.68	0.53	53.21	74.00	-20.79

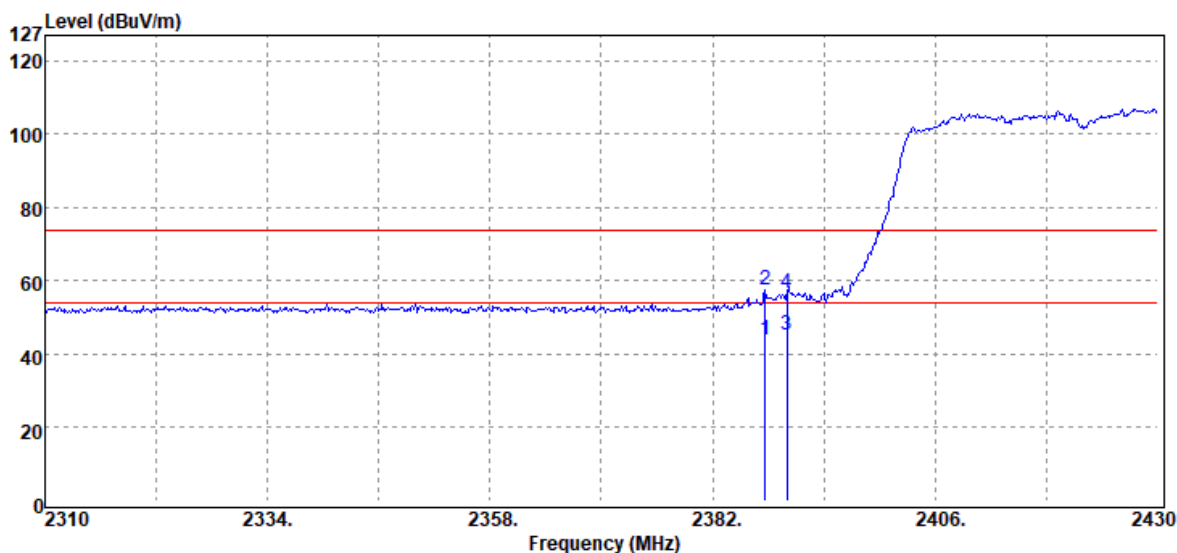
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.64	Average	43.31	0.76	44.07	54.00	-9.93
2387.64	Peak	56.75	0.76	57.51	74.00	-16.49
2390.00	Average	44.52	0.76	45.28	54.00	-8.72
2390.00	Peak	55.85	0.76	56.61	74.00	-17.39

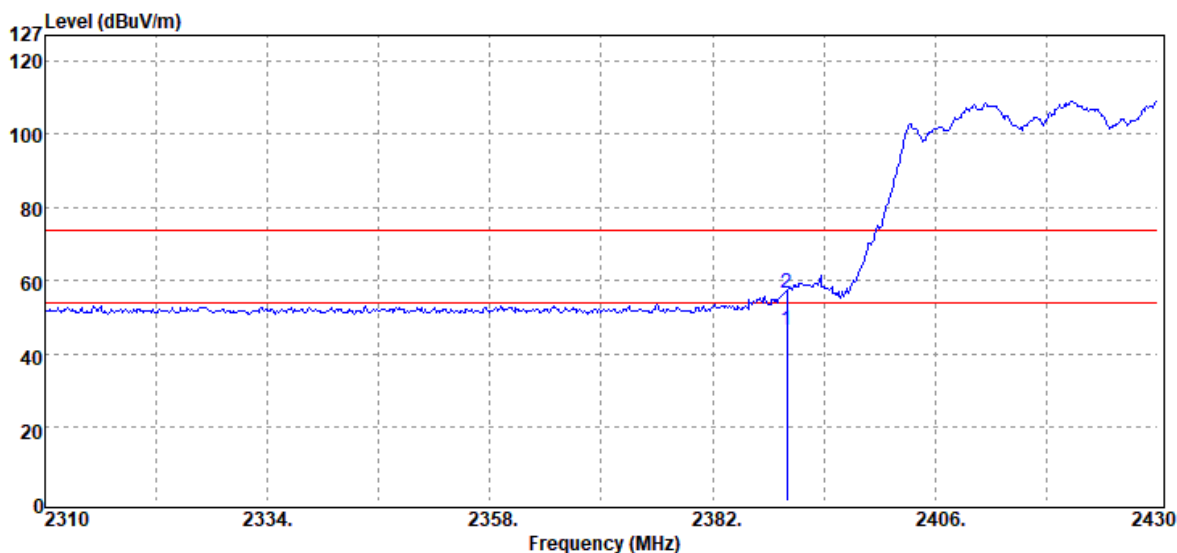
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.67	0.76	46.43	54.00	-7.57
2390.00	Peak	56.00	0.76	56.76	74.00	-17.24

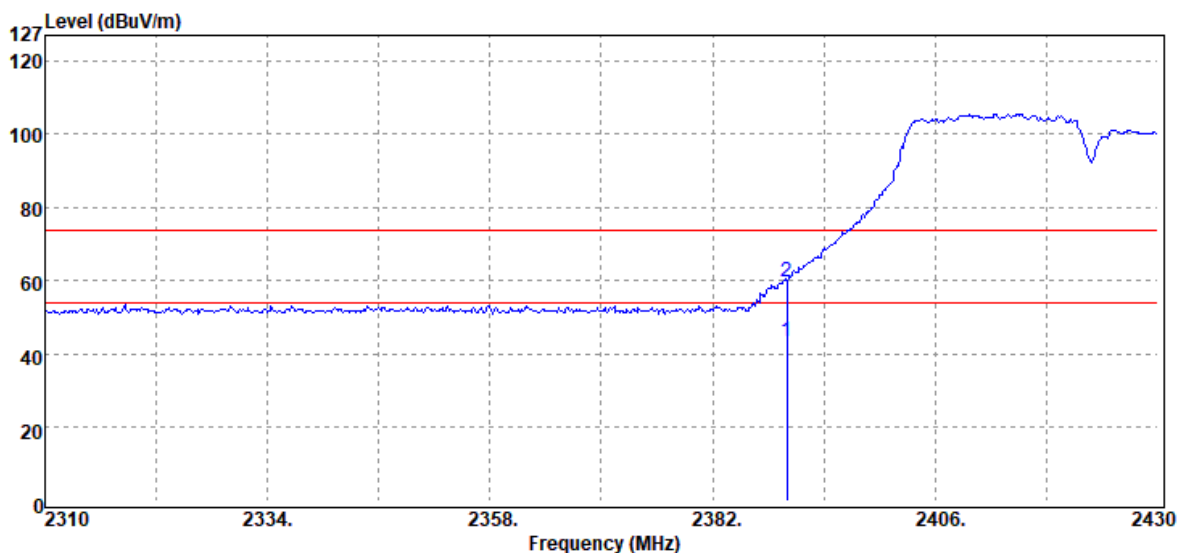
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.82	0.76	43.58	54.00	-10.42
2390.00	Peak	59.18	0.76	59.94	74.00	-14.06

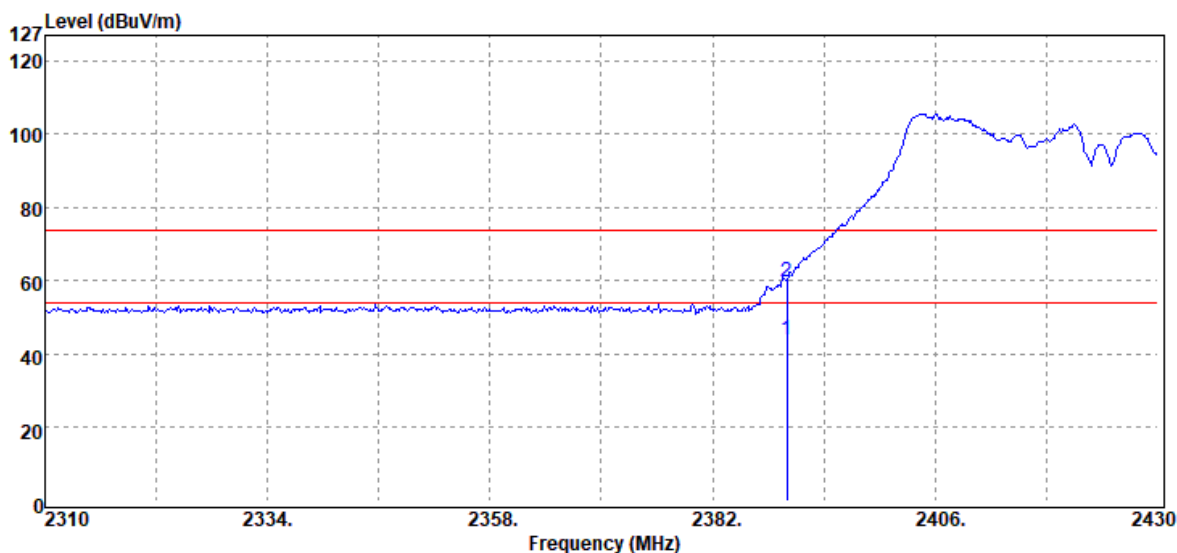
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.25	0.76	44.01	54.00	-9.99
2390.00	Peak	59.13	0.76	59.89	74.00	-14.11

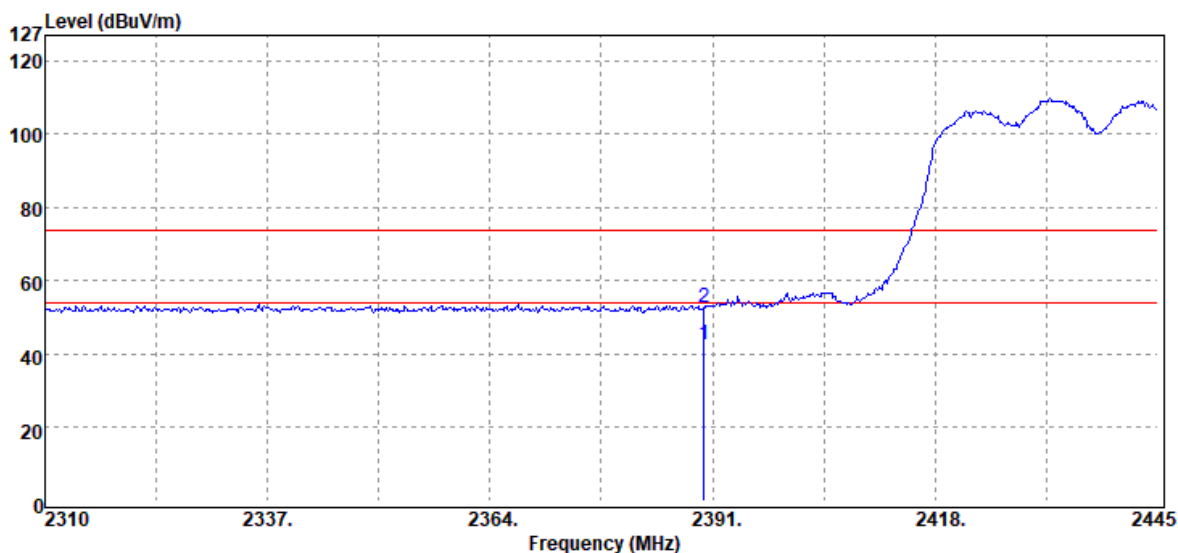
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.79	0.76	42.55	54.00	-11.45
2390.00	Peak	52.17	0.76	52.93	74.00	-21.07

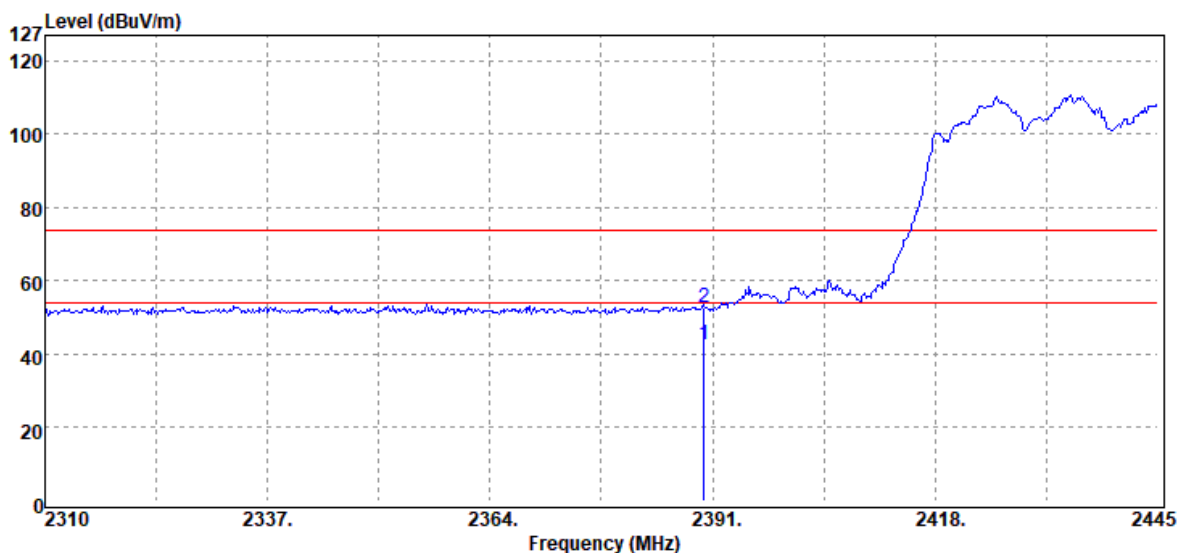
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.93	0.76	42.69	54.00	-11.31
2390.00	Peak	52.03	0.76	52.79	74.00	-21.21

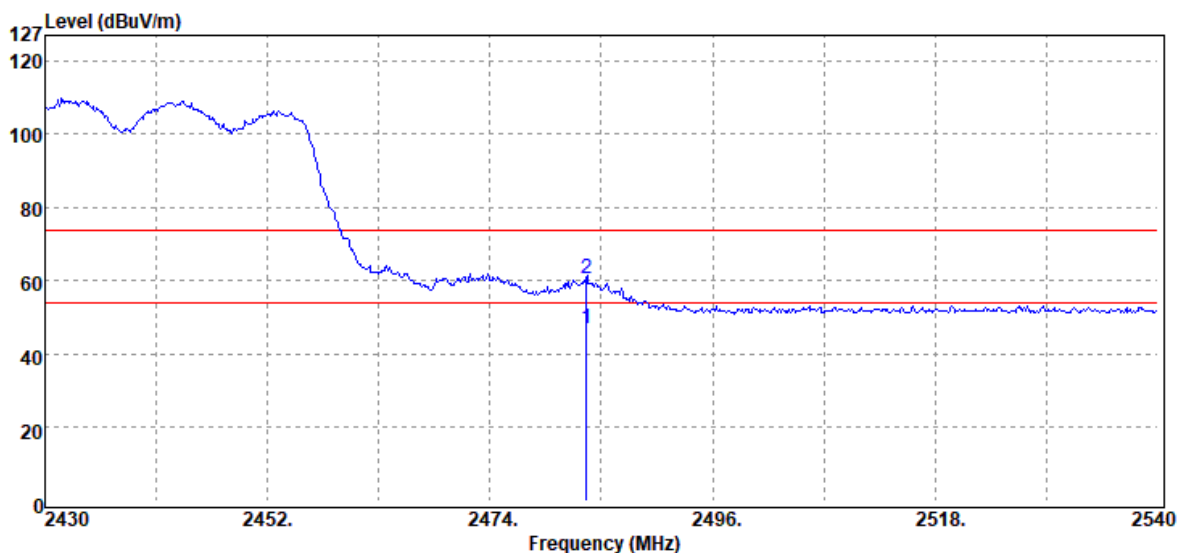
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.35	0.54	46.89	54.00	-7.11
2483.50	Peak	60.21	0.54	60.75	74.00	-13.25

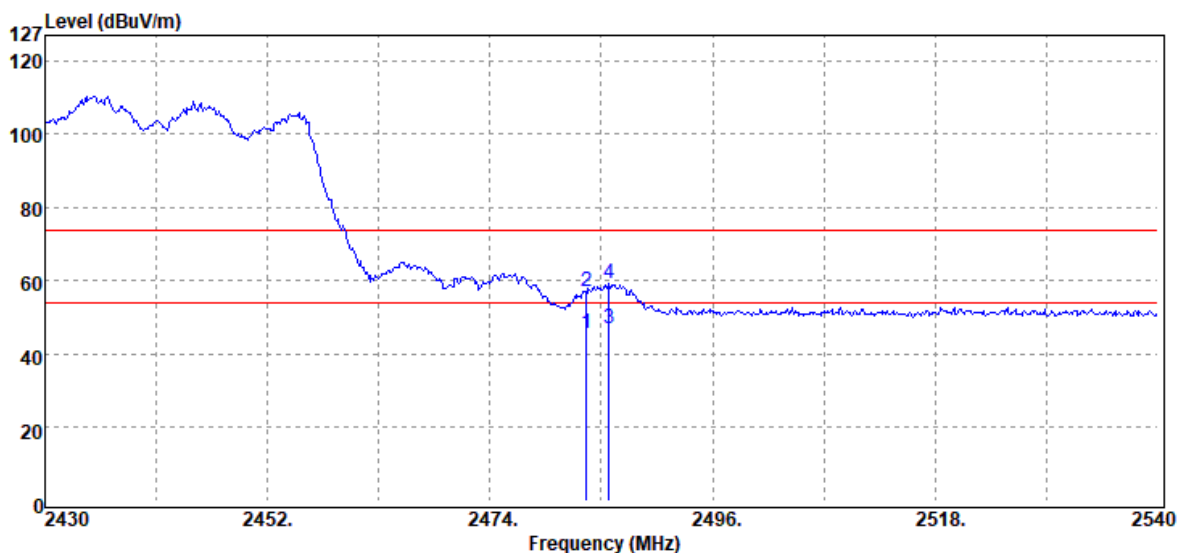
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.25	0.54	45.79	54.00	-8.21
2483.50	Peak	56.42	0.54	56.96	74.00	-17.04
2485.77	Average	46.28	0.54	46.82	54.00	-7.18
2485.77	Peak	59.00	0.54	59.54	74.00	-14.46

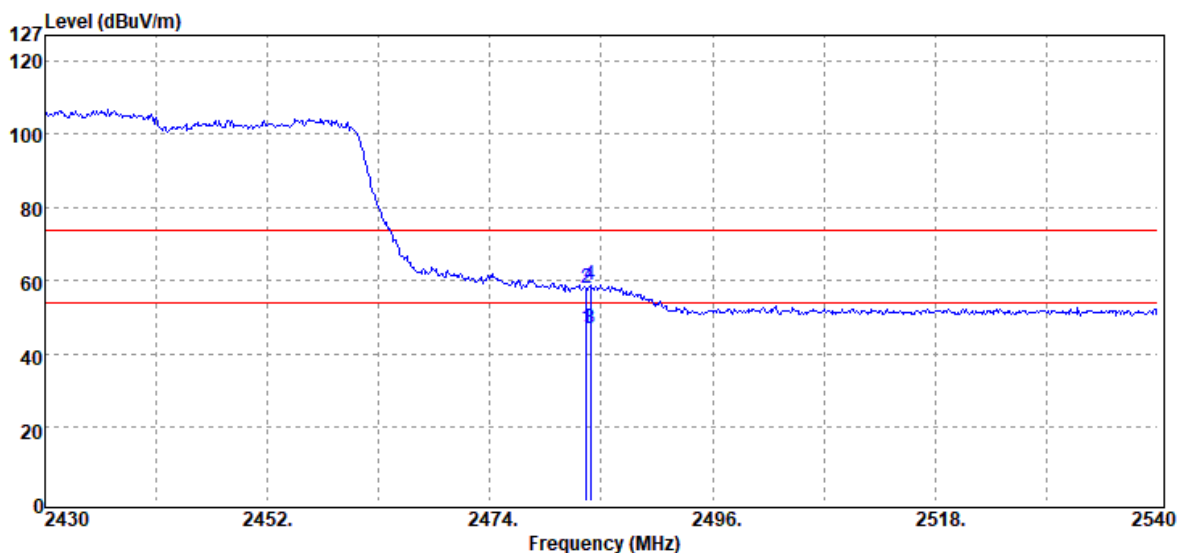
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.45	0.54	46.99	54.00	-7.01
2483.50	Peak	57.49	0.54	58.03	74.00	-15.97
2483.90	Average	46.47	0.54	47.01	54.00	-6.99
2483.90	Peak	58.45	0.54	58.99	74.00	-15.01

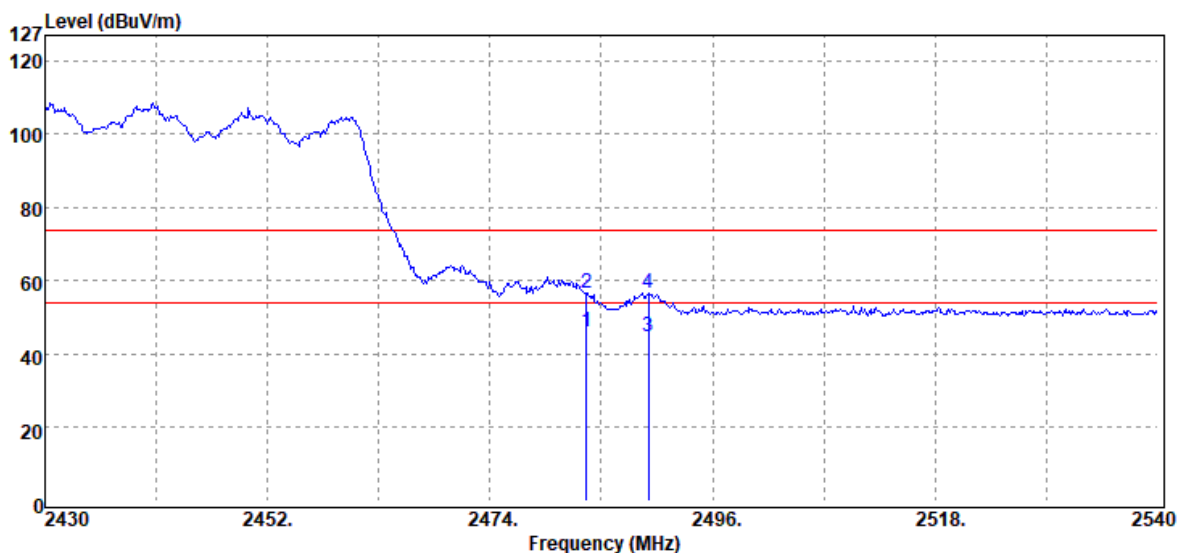
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.52	0.54	46.06	54.00	-7.94
2483.50	Peak	56.12	0.54	56.66	74.00	-17.34
2489.62	Average	44.16	0.53	44.69	54.00	-9.31
2489.62	Peak	56.29	0.53	56.82	74.00	-17.18

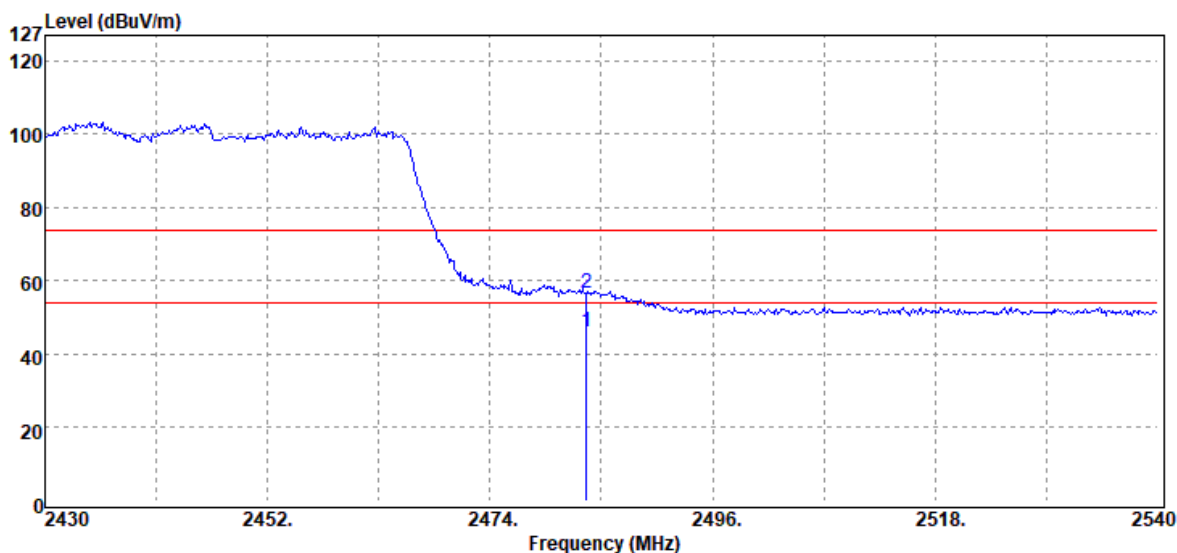
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.66	0.54	46.20	54.00	-7.80
2483.50	Peak	56.14	0.54	56.68	74.00	-17.32

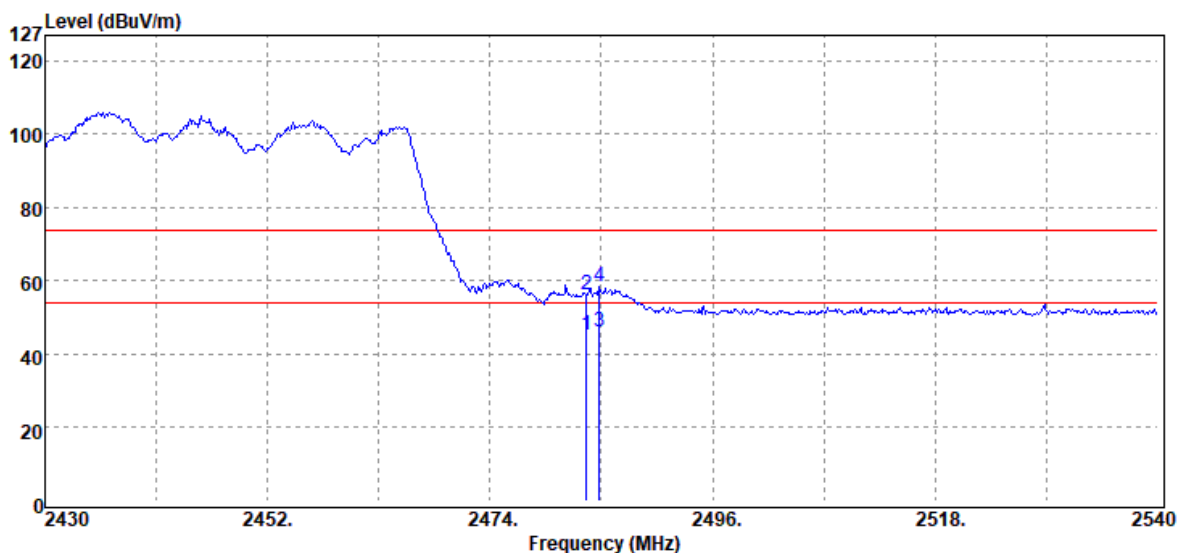
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.93	0.54	45.47	54.00	-8.53
2483.50	Peak	55.84	0.54	56.38	74.00	-17.62
2484.78	Average	45.68	0.54	46.22	54.00	-7.78
2484.78	Peak	57.81	0.54	58.35	74.00	-15.65

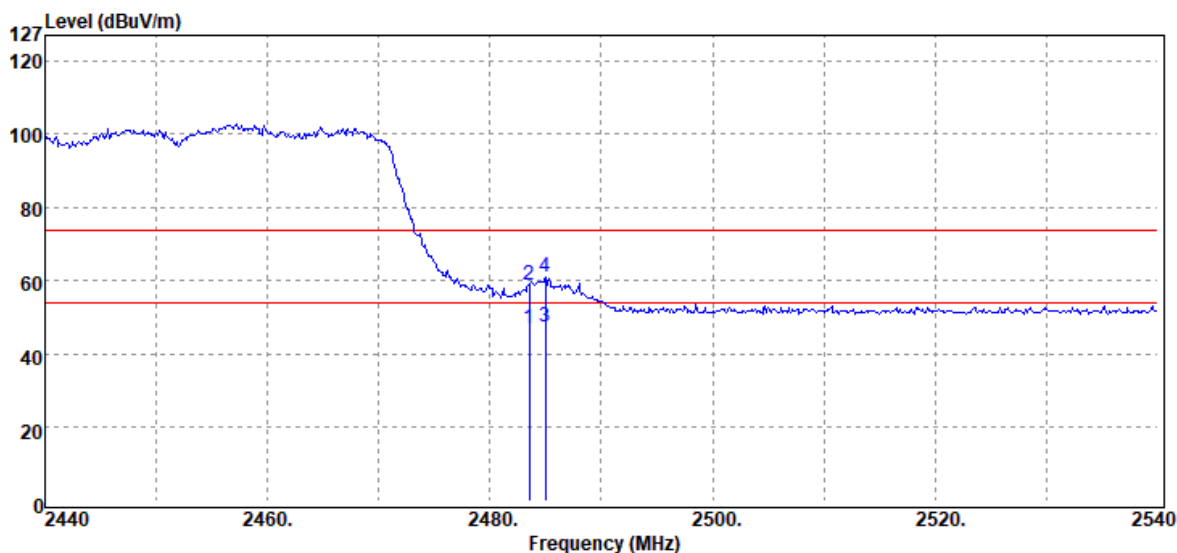
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.32	0.54	46.86	54.00	-7.14
2483.50	Peak	58.41	0.54	58.95	74.00	-15.05
2485.00	Average	46.94	0.54	47.48	54.00	-6.52
2485.00	Peak	60.49	0.54	61.03	74.00	-12.97

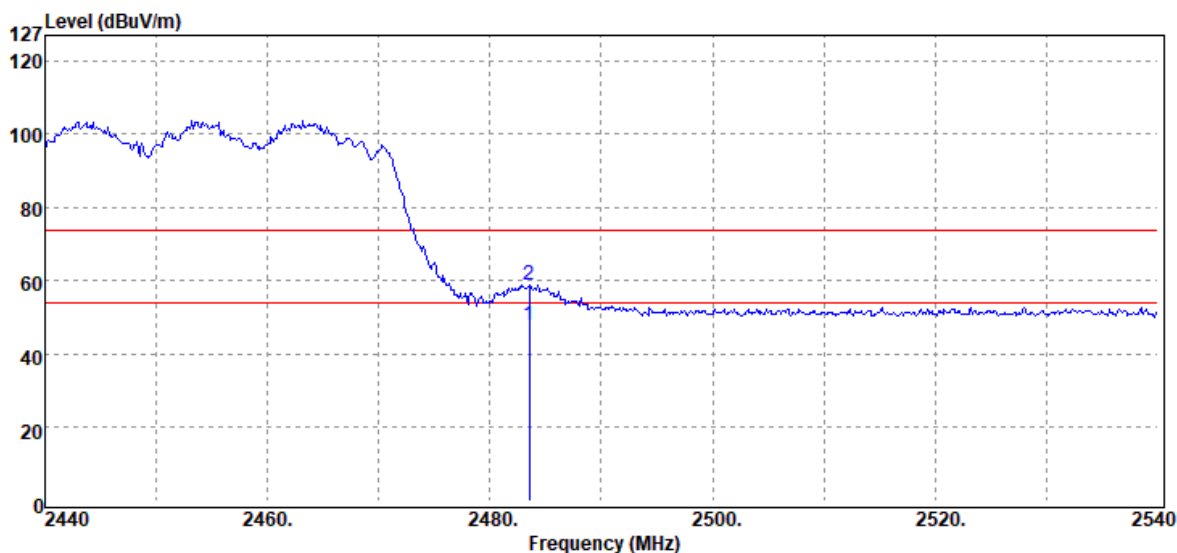
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.42	0.54	47.96	54.00	-6.04
2483.50	Peak	58.42	0.54	58.96	74.00	-15.04

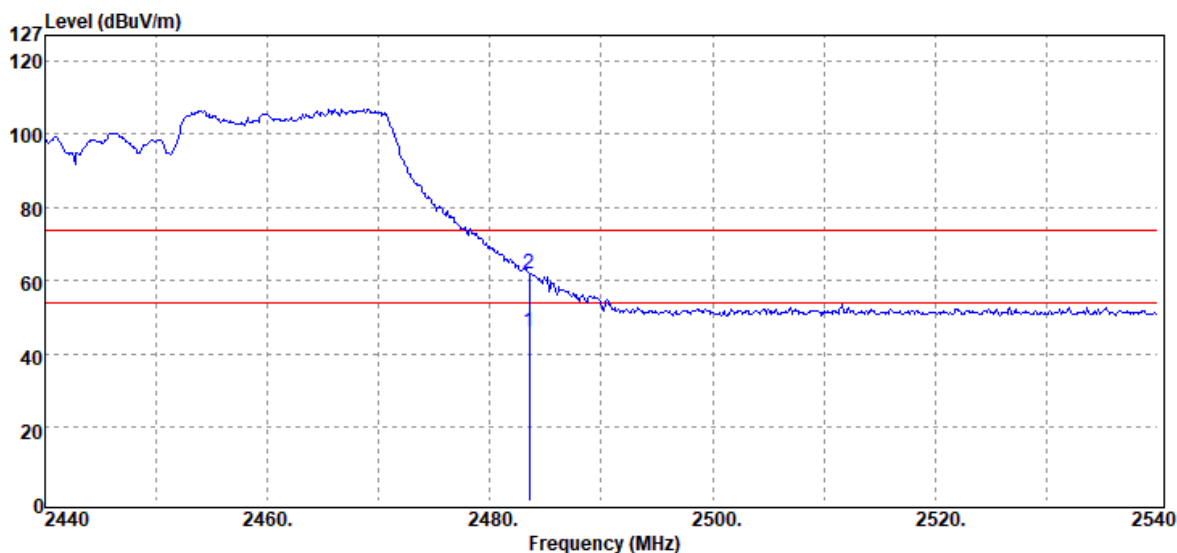
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.48	0.54	46.02	54.00	-7.98
2483.50	Peak	61.45	0.54	61.99	74.00	-12.01

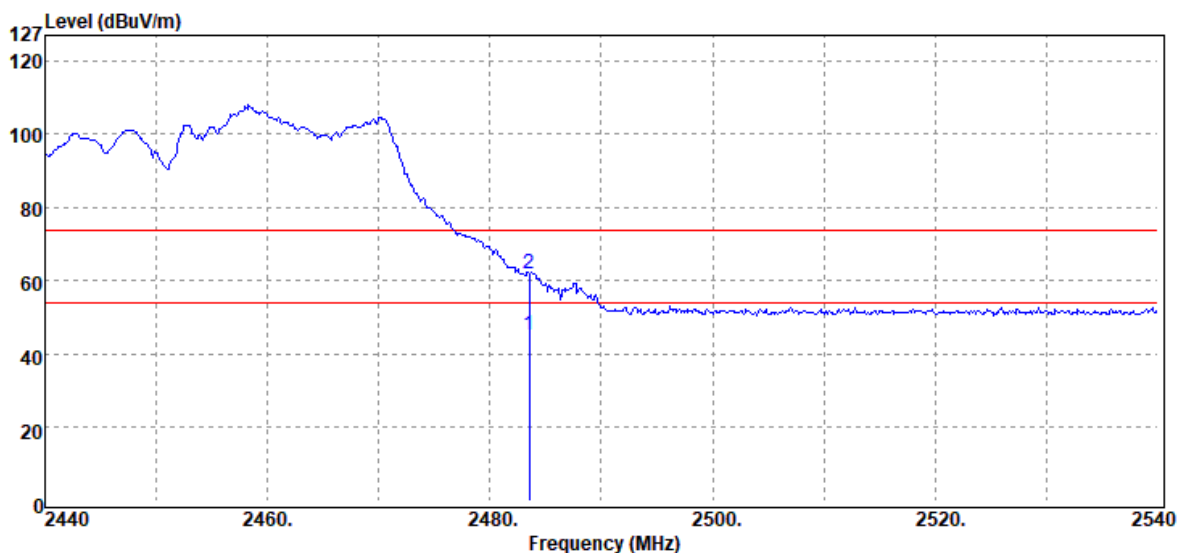
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-15
 Temp./Humi. :22.4/61
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.72	0.54	45.26	54.00	-8.74
2483.50	Peak	61.47	0.54	62.01	74.00	-11.99

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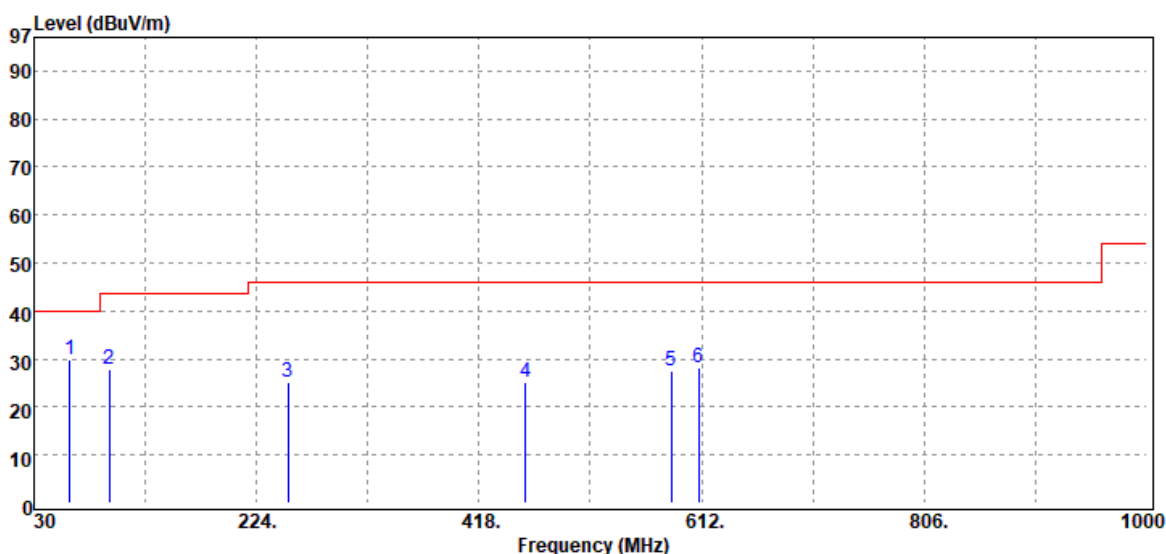
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11.7.2 Below 1GHz Worst-Case Emission:

CDD

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11g	Test Date	:2021-03-05
Test Frequency	:2437 MHz	Temp./Humi.	:21.8/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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
61.04	Peak	39.06	-9.19	29.87	40.00	-10.13
95.96	Peak	41.98	-13.99	27.99	43.50	-15.51
251.16	Peak	33.99	-8.72	25.27	46.00	-20.73
458.74	Peak	28.26	-3.05	25.21	46.00	-20.79
585.81	Peak	28.31	-0.67	27.64	46.00	-18.36
609.09	Peak	28.01	0.04	28.05	46.00	-17.95

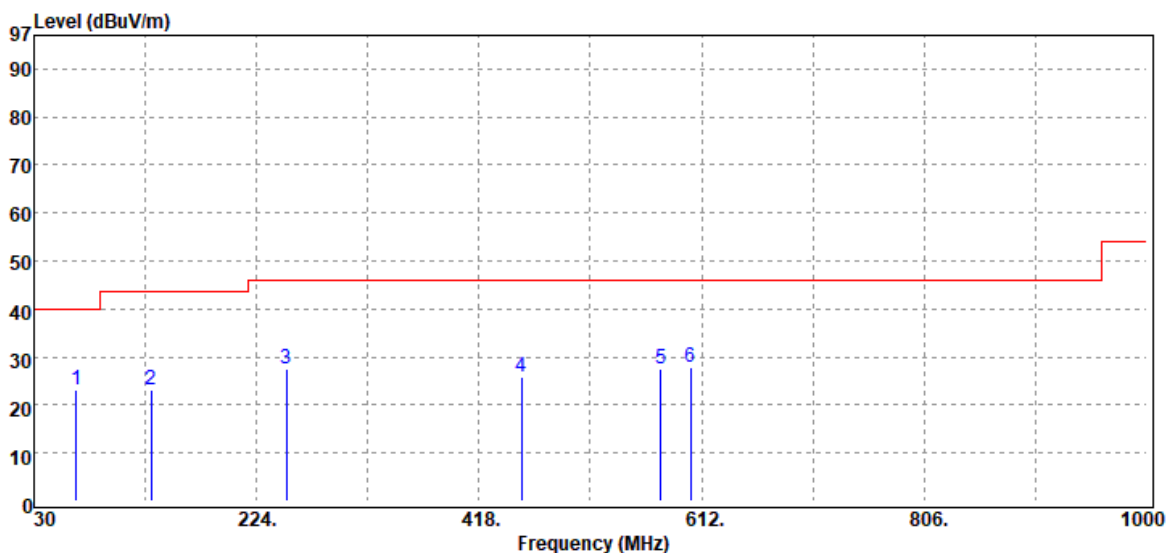
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



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
66.86	Peak	33.03	-9.98	23.05	40.00	-16.95
131.85	Peak	32.08	-8.81	23.27	43.50	-20.23
250.19	Peak	36.22	-8.79	27.43	46.00	-18.57
454.86	Peak	28.95	-3.14	25.81	46.00	-20.19
576.11	Peak	28.53	-1.04	27.49	46.00	-18.51
602.30	Peak	28.18	-0.29	27.89	46.00	-18.11

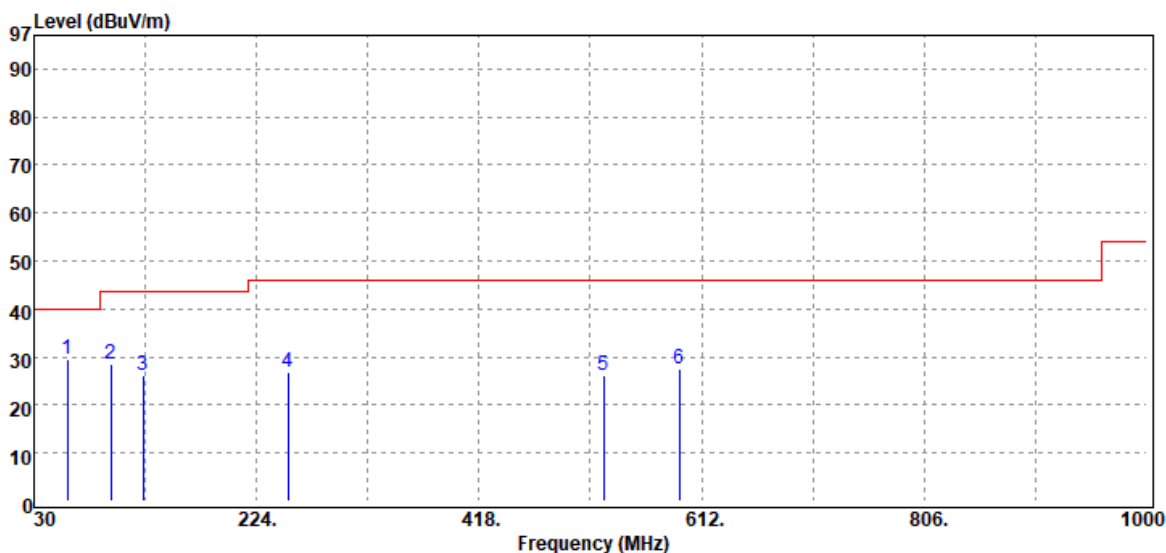
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
59.10	Peak	38.80	-9.27	29.53	40.00	-10.47
96.93	Peak	42.21	-13.61	28.60	43.50	-14.90
125.06	Peak	35.55	-9.47	26.08	43.50	-17.42
251.16	Peak	35.66	-8.72	26.94	46.00	-19.06
526.64	Peak	29.01	-2.71	26.30	46.00	-19.70
592.60	Peak	28.21	-0.52	27.69	46.00	-18.31

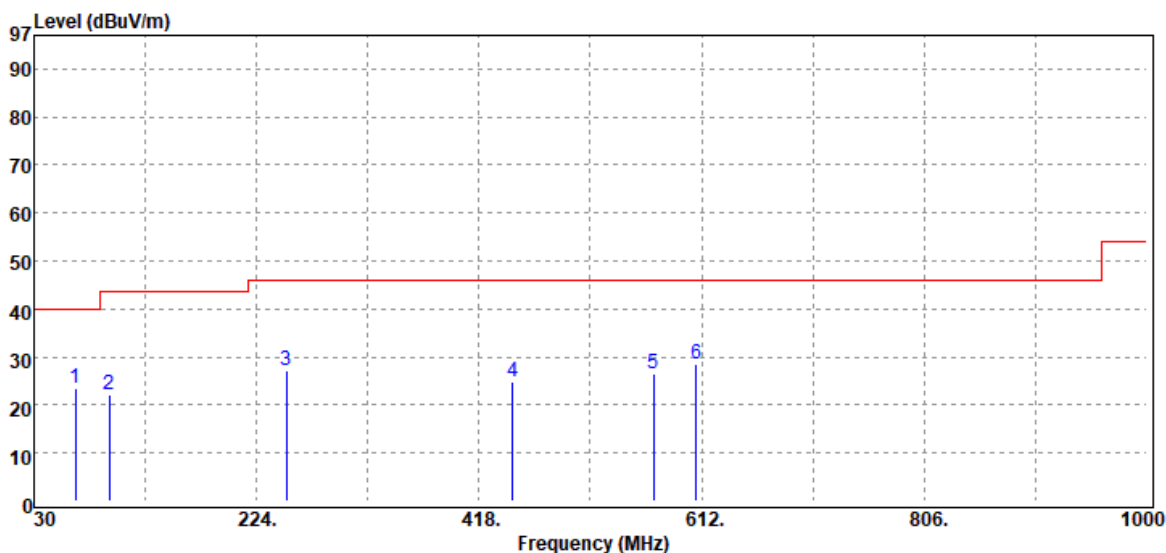
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-05
 Temp./Humi. :21.8/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



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
65.89	Peak	33.37	-9.96	23.41	40.00	-16.59
95.96	Peak	36.29	-13.99	22.30	43.50	-21.20
250.19	Peak	35.84	-8.79	27.05	46.00	-18.95
447.10	Peak	28.31	-3.37	24.94	46.00	-21.06
570.29	Peak	27.99	-1.43	26.56	46.00	-19.44
607.15	Peak	28.50	-0.06	28.44	46.00	-17.56

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Beamforming

Report Number :ER-2021-20091

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Tx CH Mid

EUT Pol :H Plane

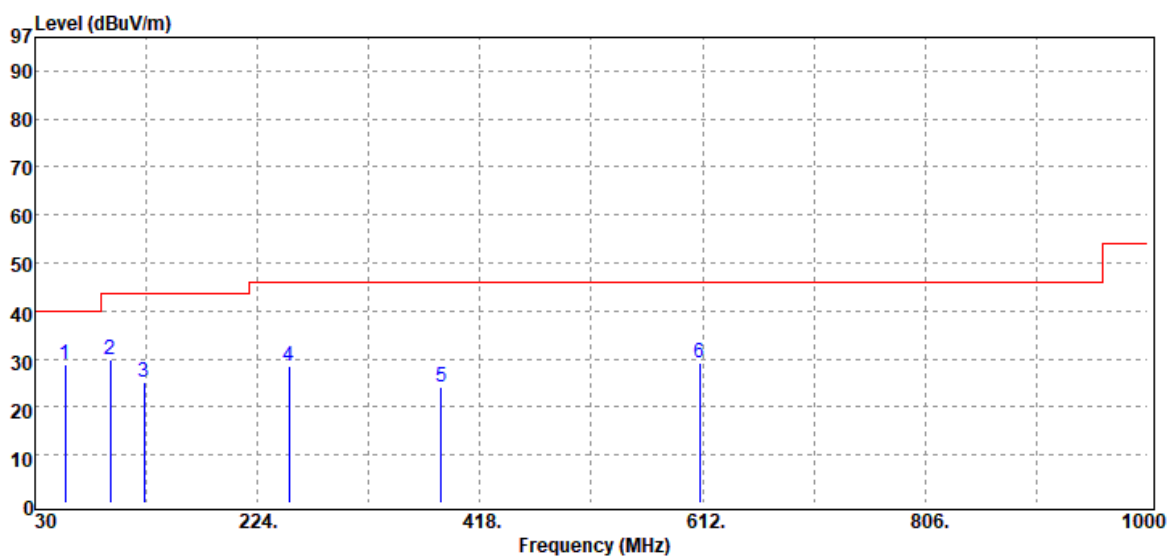
Test Site :SAC III Chamber

Test Date :2021-03-17

Temp./Humi. :22.8/65

Antenna Pol. :VERTICAL

Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	37.82	-9.01	28.81	40.00	-11.19
95.96	Peak	43.98	-13.99	29.99	43.50	-13.51
125.06	Peak	34.76	-9.47	25.29	43.50	-18.21
251.16	Peak	37.39	-8.72	28.67	46.00	-17.33
384.05	Peak	29.38	-5.17	24.21	46.00	-21.79
609.09	Peak	29.05	0.04	29.09	46.00	-16.91

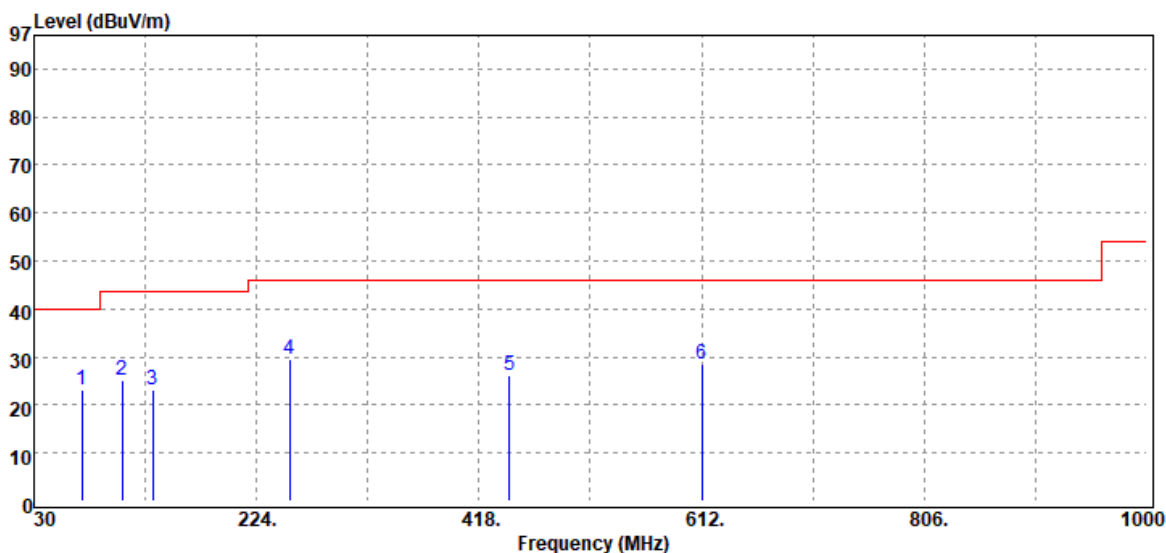
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	Peak	33.78	-10.50	23.28	40.00	-16.72
106.63	Peak	37.15	-11.87	25.28	43.50	-18.22
133.79	Peak	32.02	-8.80	23.22	43.50	-20.28
253.10	Peak	38.29	-8.59	29.70	46.00	-16.30
444.19	Peak	29.67	-3.44	26.23	46.00	-19.77
612.00	Peak	28.67	0.02	28.69	46.00	-17.31

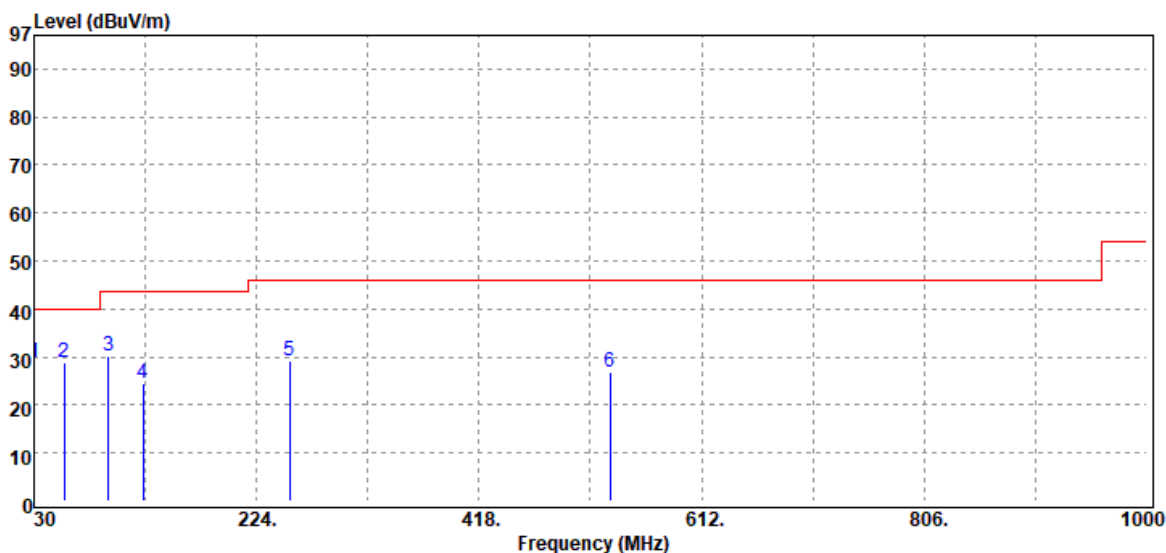
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	38.55	-9.68	28.87	40.00	-11.13
56.19	Peak	37.77	-9.01	28.76	40.00	-11.24
94.99	Peak	44.29	-14.00	30.29	43.50	-13.21
125.06	Peak	33.83	-9.47	24.36	43.50	-19.14
253.10	Peak	37.96	-8.59	29.37	46.00	-16.63
532.46	Peak	29.23	-2.44	26.79	46.00	-19.21

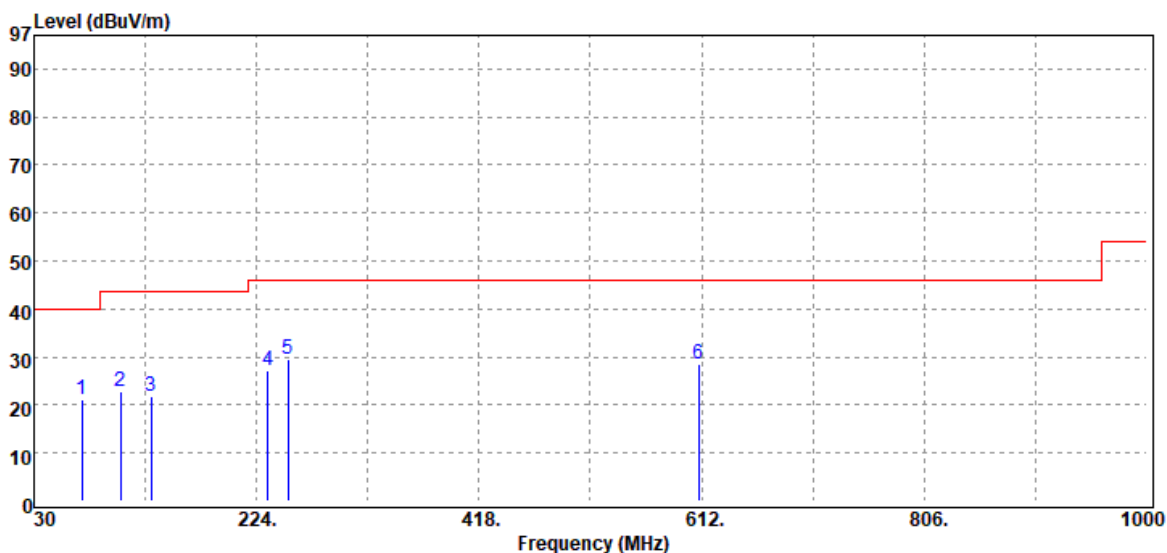
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.71	Peak	31.78	-10.50	21.28	40.00	-18.72
105.66	Peak	34.93	-12.03	22.90	43.50	-20.60
131.85	Peak	30.63	-8.81	21.82	43.50	-21.68
233.70	Peak	36.77	-9.42	27.35	46.00	-18.65
251.16	Peak	38.26	-8.72	29.54	46.00	-16.46
609.09	Peak	28.62	0.04	28.66	46.00	-17.34

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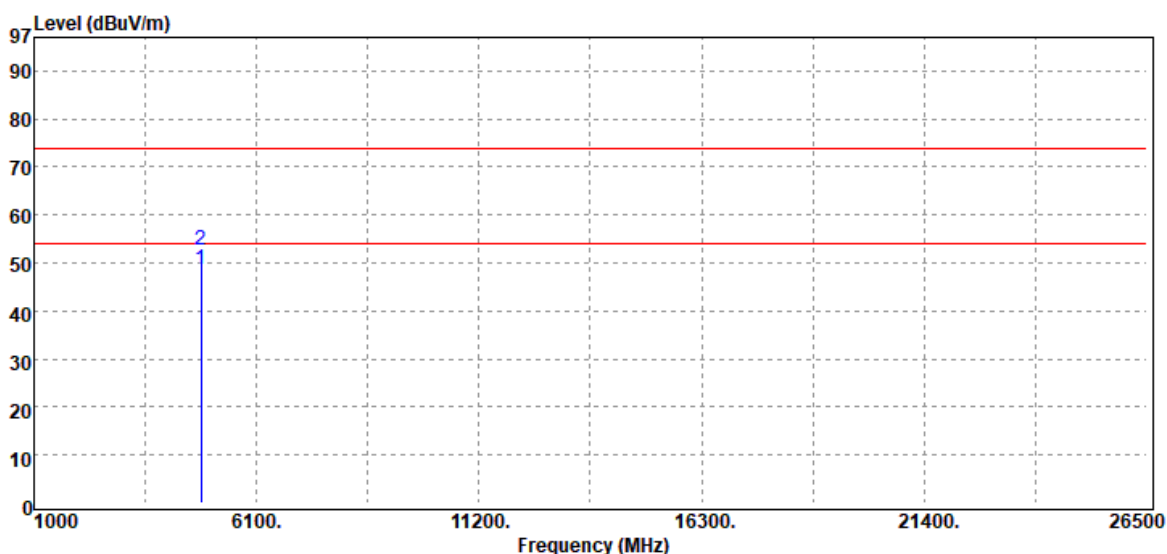
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11.7.3 Above 1GHz Emission:

CDD

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2021-03-04
Test Frequency	:2412 MHz	Temp./Humi.	:21.3/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



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
4824.00	Average	41.26	7.38	48.64	54.00	-5.36
4824.00	Peak	45.46	7.38	52.84	74.00	-21.16

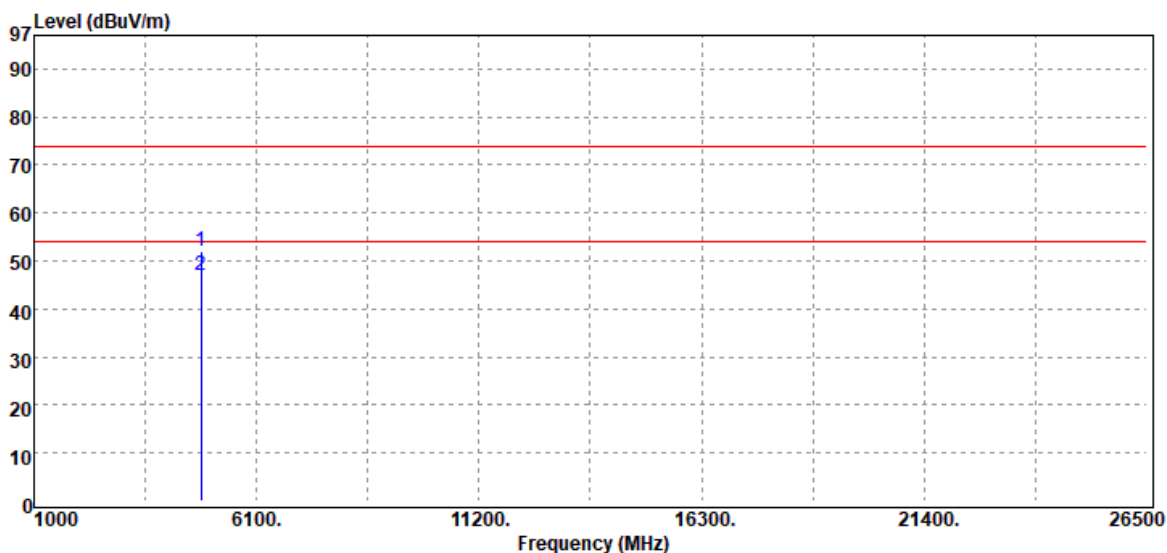
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	44.58	7.38	51.96	54.00	-2.04
4824.00	Peak	39.70	7.38	47.08	74.00	-26.92

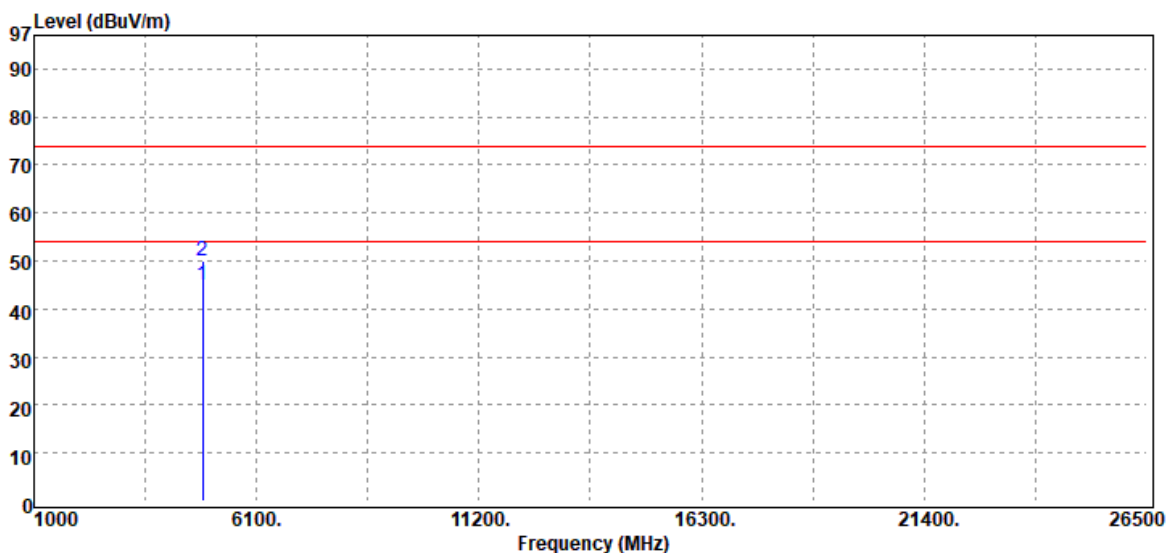
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4874.00	Average	37.96	7.09	45.05	54.00	-8.95
4874.00	Peak	42.90	7.09	49.99	74.00	-24.01

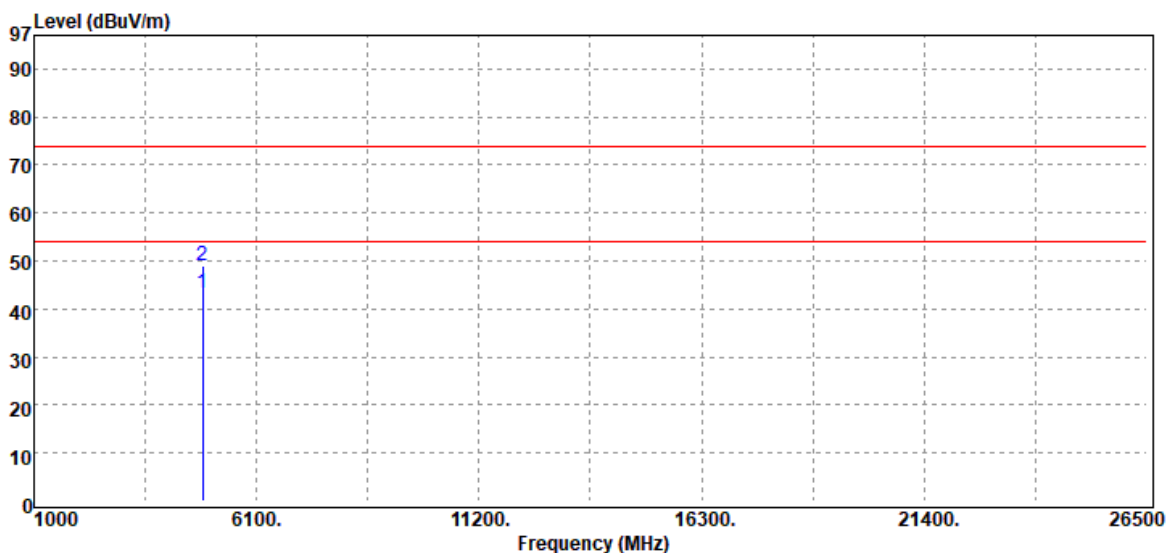
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	36.32	7.09	43.41	54.00	-10.59
4874.00	Peak	41.97	7.09	49.06	74.00	-24.94

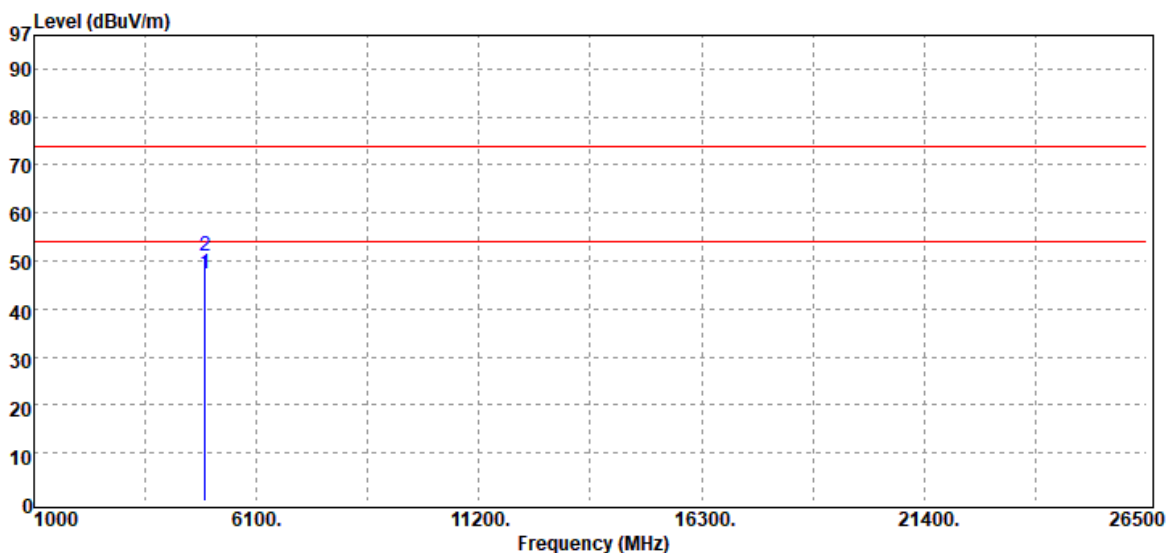
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4924.00	Average	40.24	7.06	47.30	54.00	-6.70
4924.00	Peak	44.12	7.06	51.18	74.00	-22.82

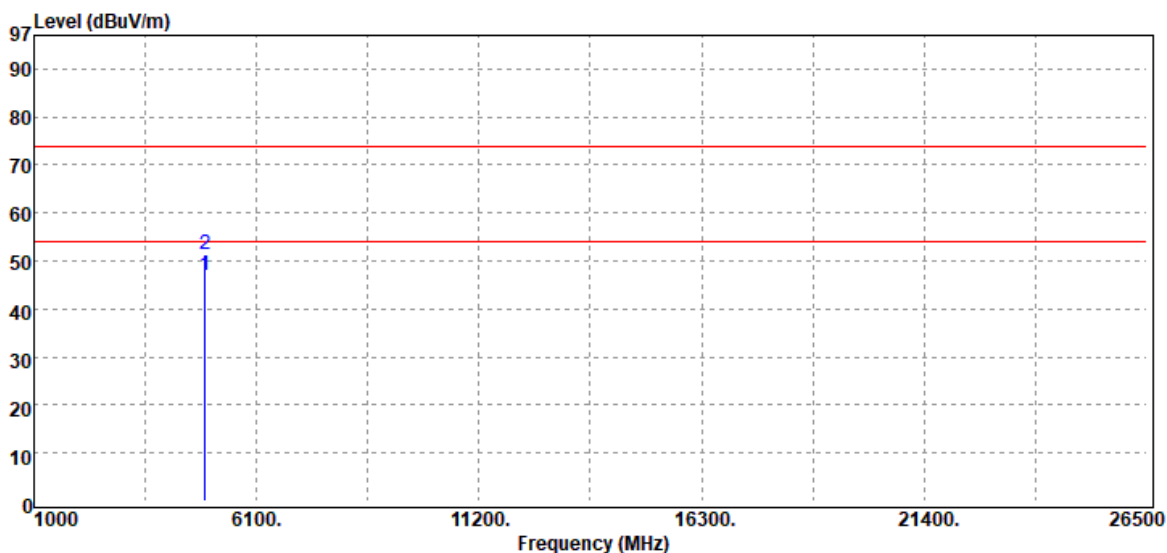
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	39.89	7.06	46.95	54.00	-7.05
4924.00	Peak	44.37	7.06	51.43	74.00	-22.57

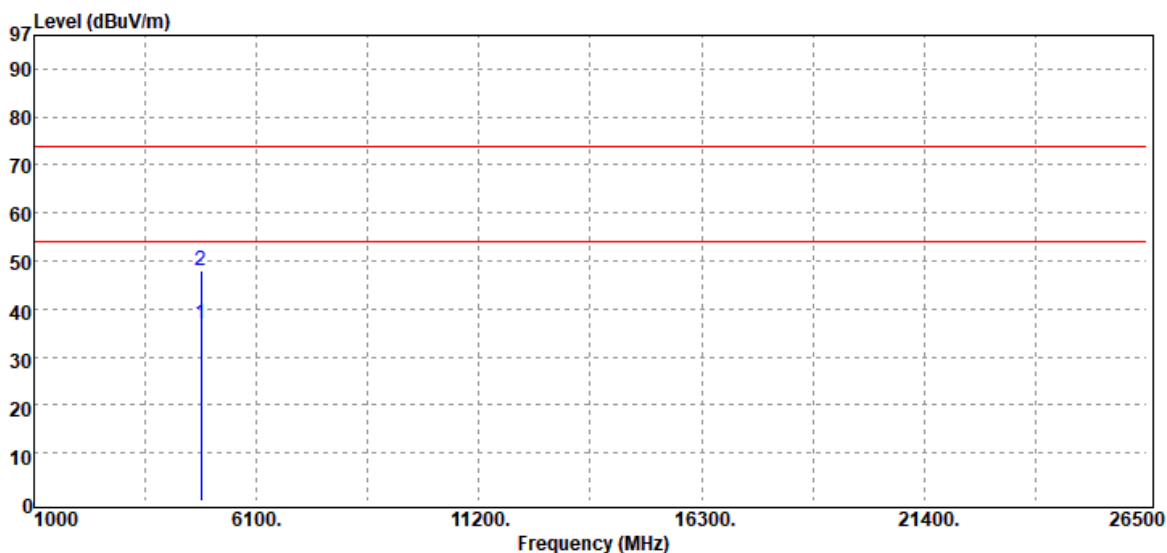
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4824.00	Average	29.50	7.38	36.88	54.00	-17.12
4824.00	Peak	40.51	7.38	47.89	74.00	-26.11

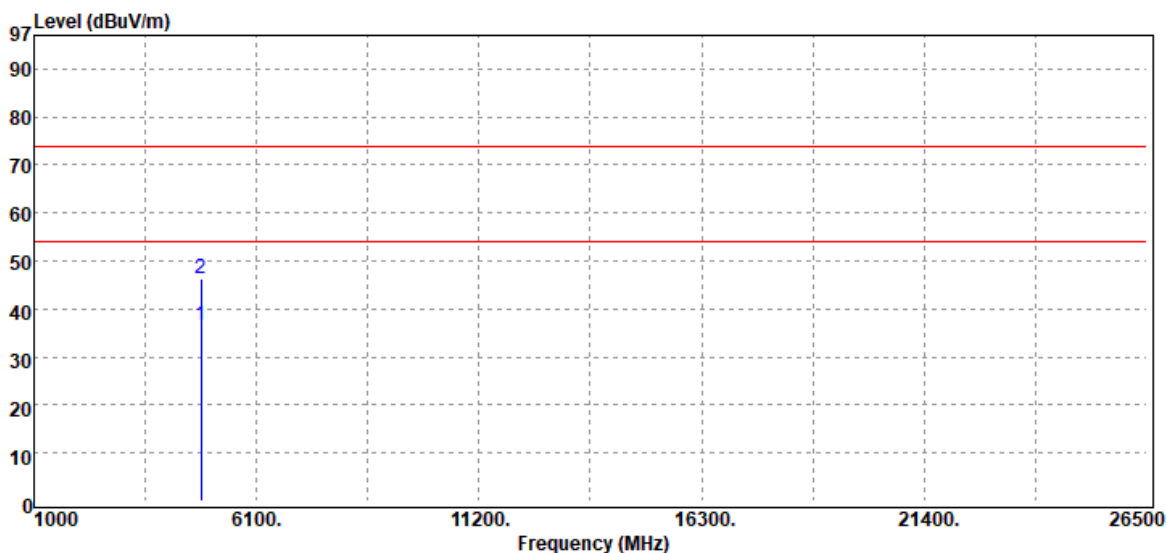
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4824.00	Average	29.21	7.38	36.59	54.00	-17.41
4824.00	Peak	39.04	7.38	46.42	74.00	-27.58

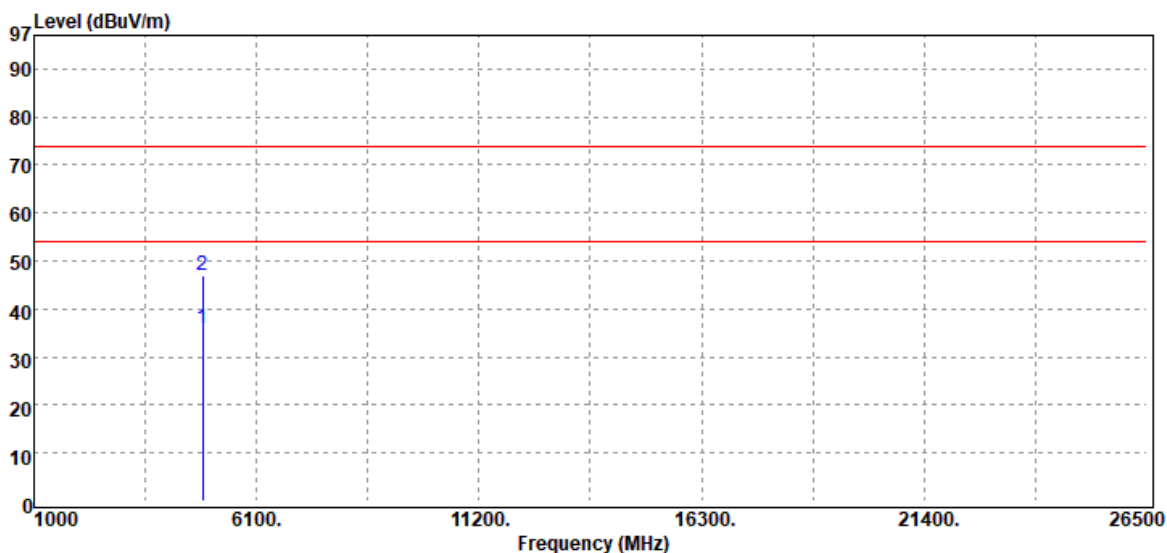
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4874.00	Average	28.83	7.09	35.92	54.00	-18.08
4874.00	Peak	39.93	7.09	47.02	74.00	-26.98

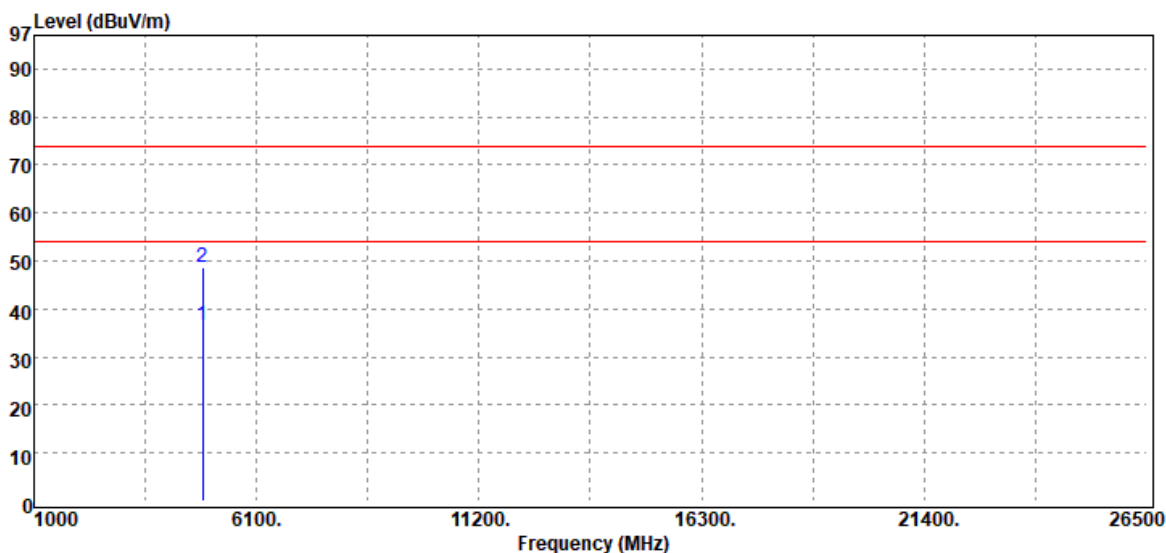
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	29.56	7.09	36.65	54.00	-17.35
4874.00	Peak	41.60	7.09	48.69	74.00	-25.31

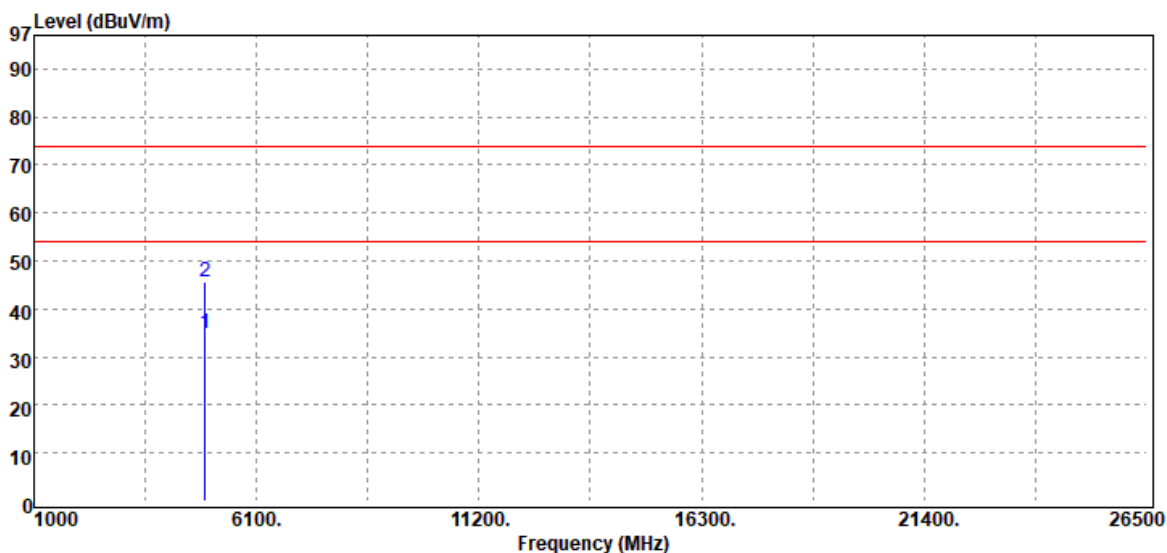
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.98	7.06	35.04	54.00	-18.96
4924.00	Peak	38.51	7.06	45.57	74.00	-28.43

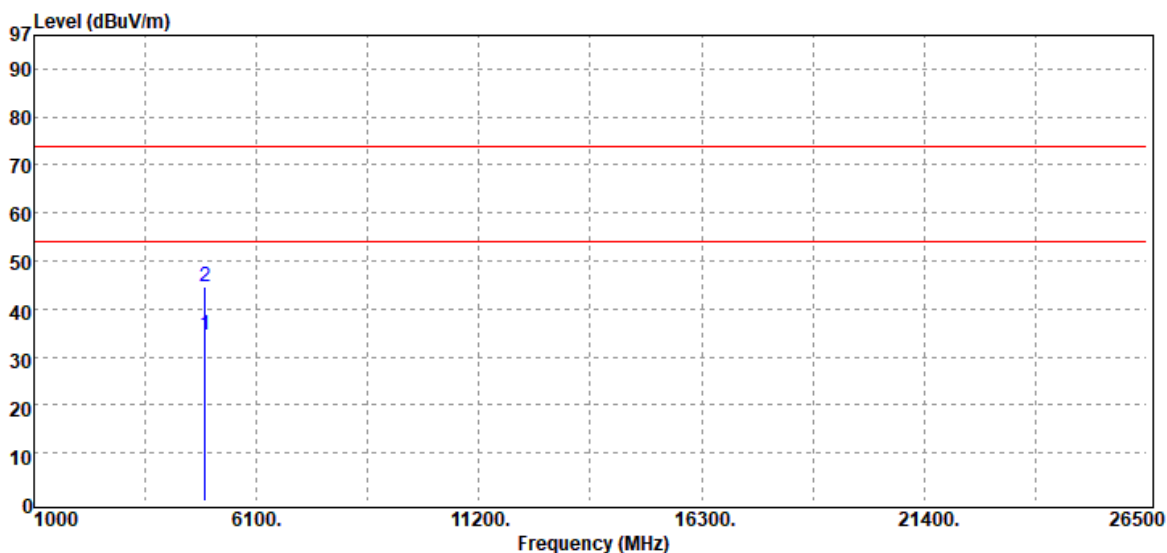
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4924.00	Average	27.67	7.06	34.73	54.00	-19.27
4924.00	Peak	37.63	7.06	44.69	74.00	-29.31

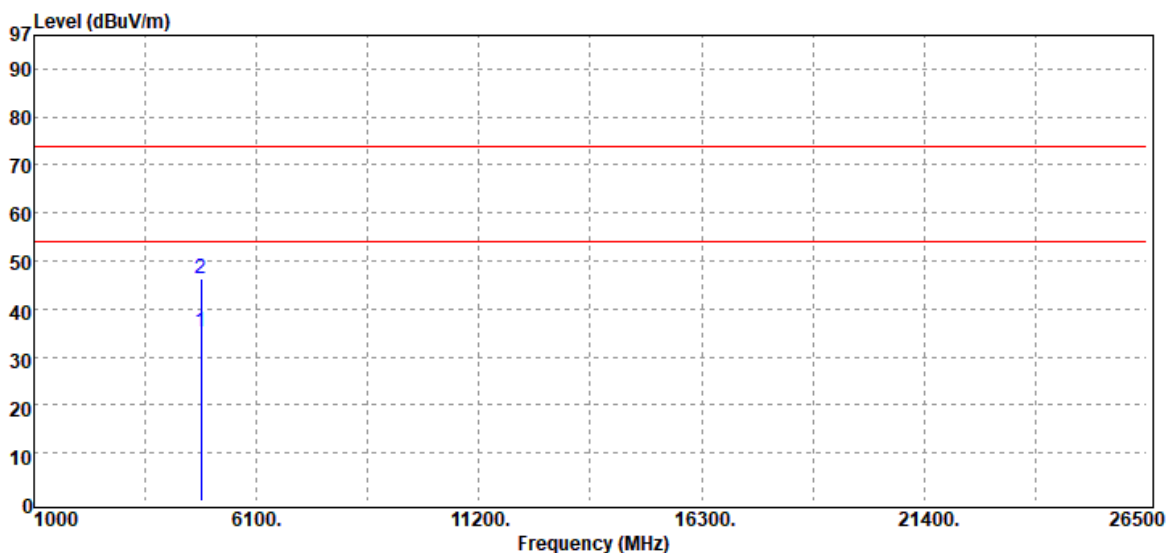
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4824.00	Average	27.83	7.38	35.21	54.00	-18.79
4824.00	Peak	39.02	7.38	46.40	74.00	-27.60

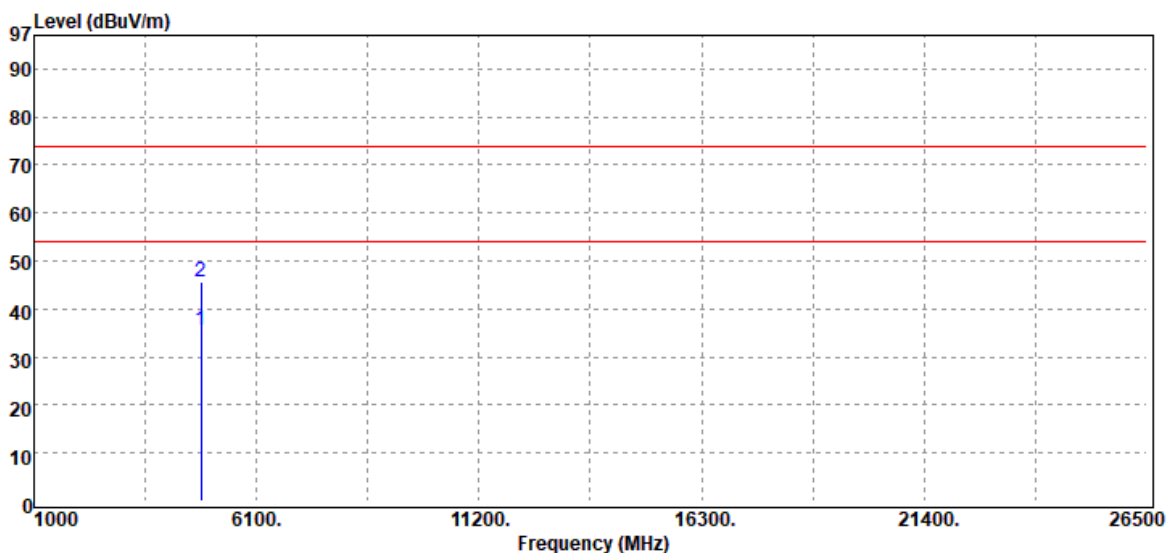
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4824.00	Average	28.11	7.38	35.49	54.00	-18.51
4824.00	Peak	38.42	7.38	45.80	74.00	-28.20

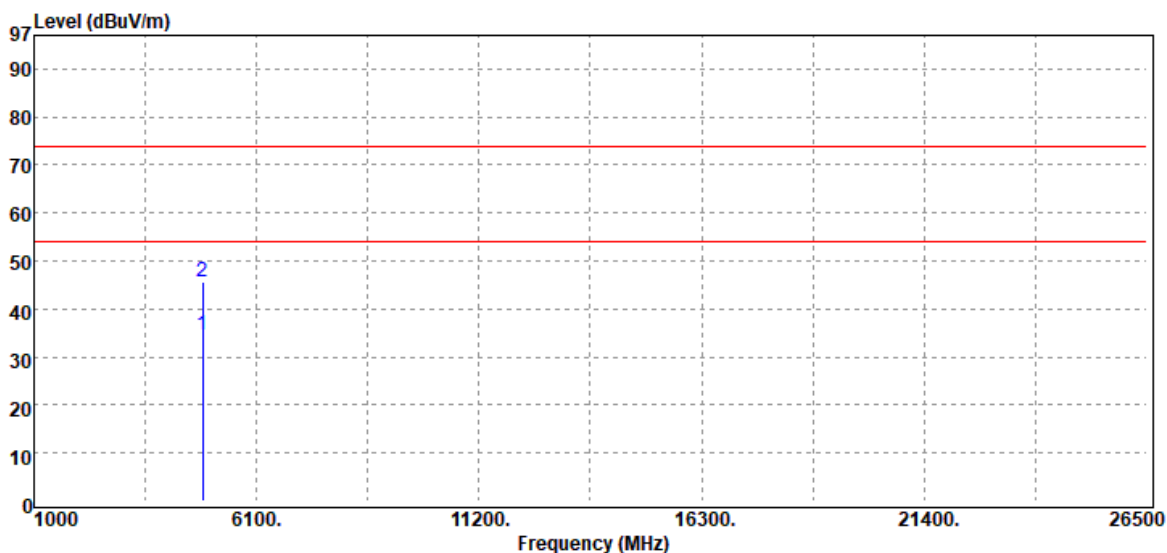
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	27.58	7.09	34.67	54.00	-19.33
4874.00	Peak	38.70	7.09	45.79	74.00	-28.21

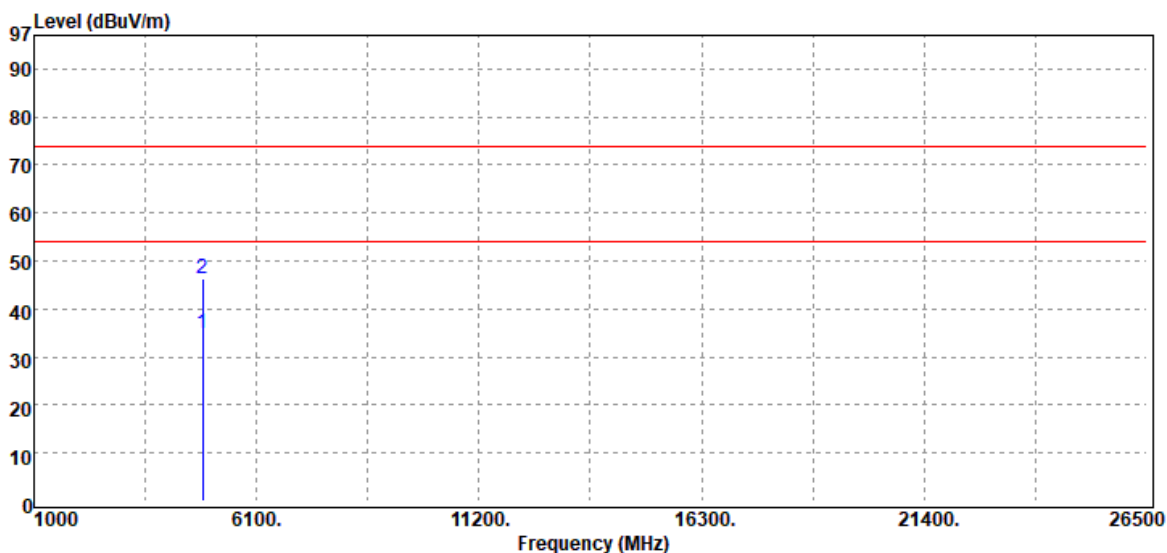
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	27.85	7.09	34.94	54.00	-19.06
4874.00	Peak	39.09	7.09	46.18	74.00	-27.82

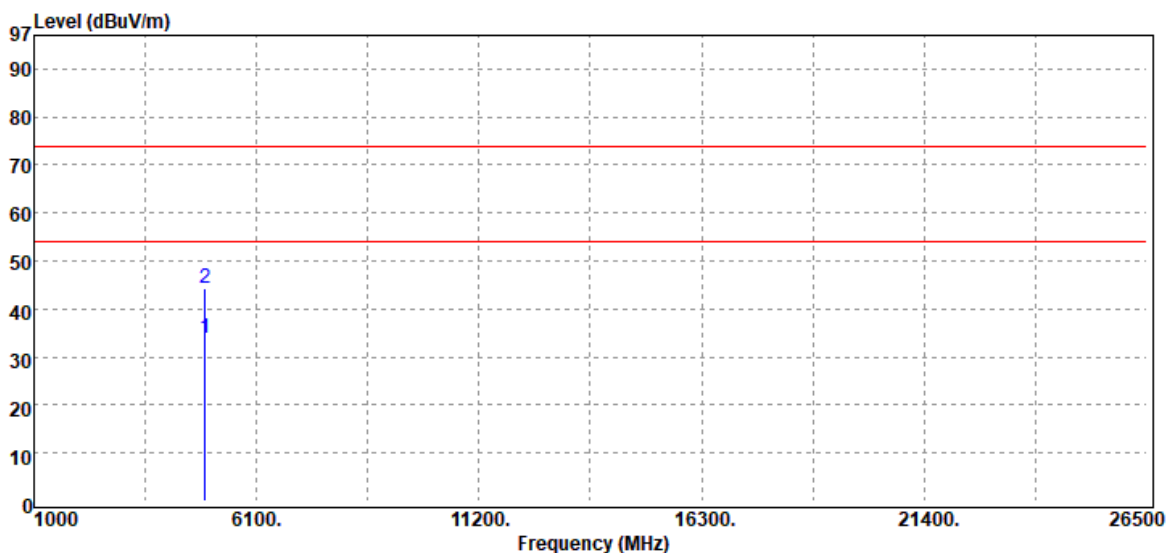
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4924.00	Average	26.69	7.06	33.75	54.00	-20.25
4924.00	Peak	37.37	7.06	44.43	74.00	-29.57

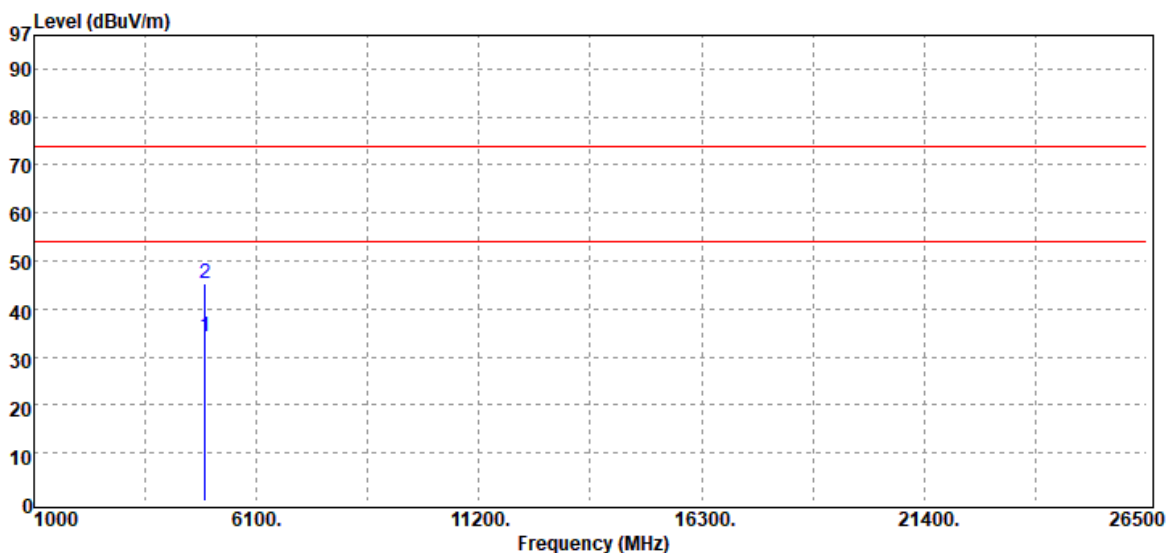
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4924.00	Average	27.12	7.06	34.18	54.00	-19.82
4924.00	Peak	38.24	7.06	45.30	74.00	-28.70

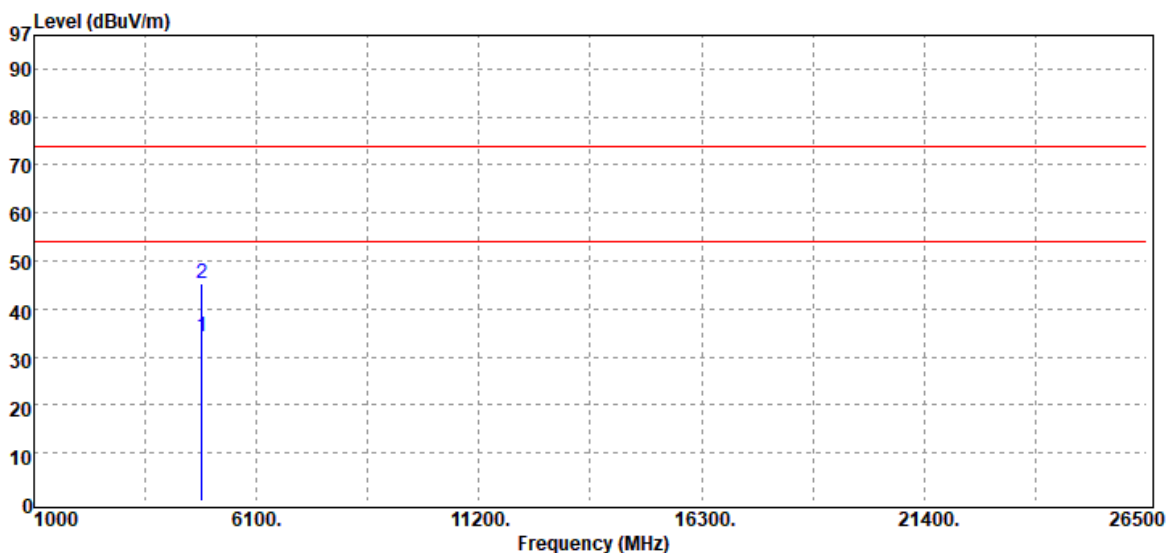
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4844.00	Average	27.03	7.29	34.32	54.00	-19.68
4844.00	Peak	37.98	7.29	45.27	74.00	-28.73

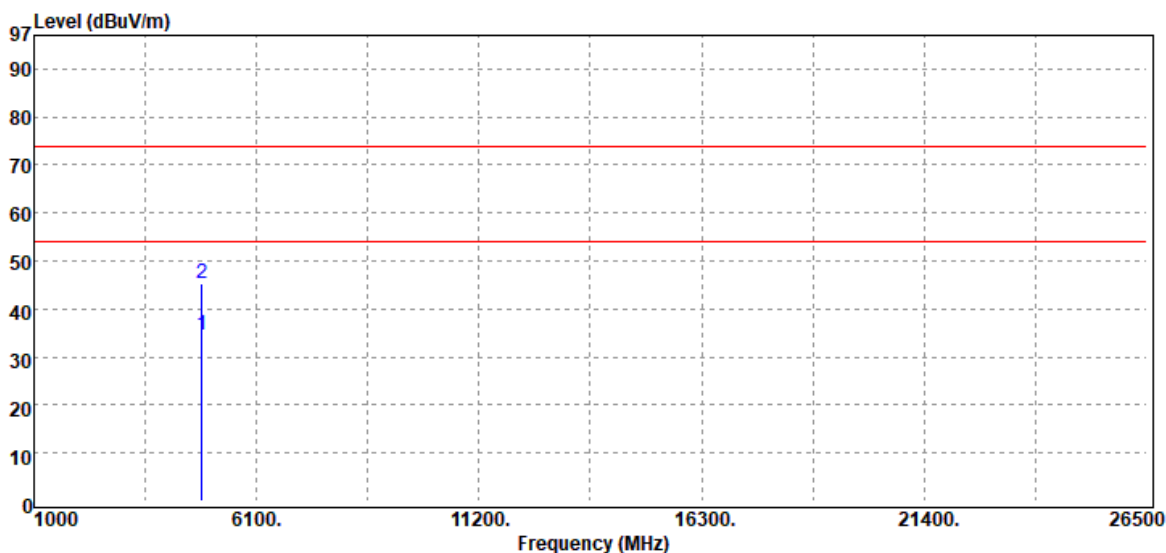
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4844.00	Average	27.24	7.29	34.53	54.00	-19.47
4844.00	Peak	37.90	7.29	45.19	74.00	-28.81

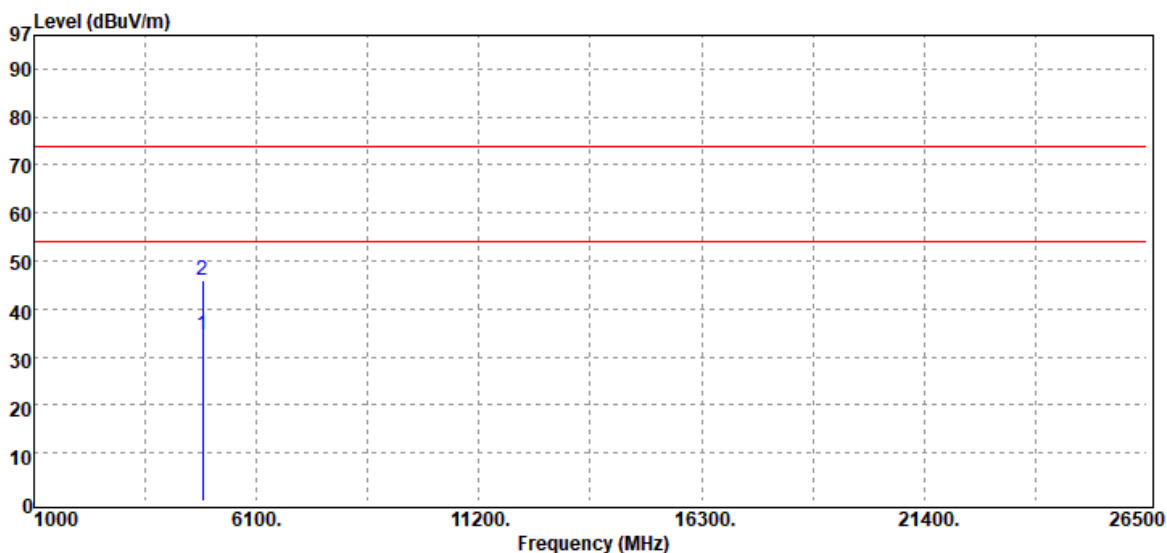
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4874.00	Average	27.46	7.09	34.55	54.00	-19.45
4874.00	Peak	38.82	7.09	45.91	74.00	-28.09

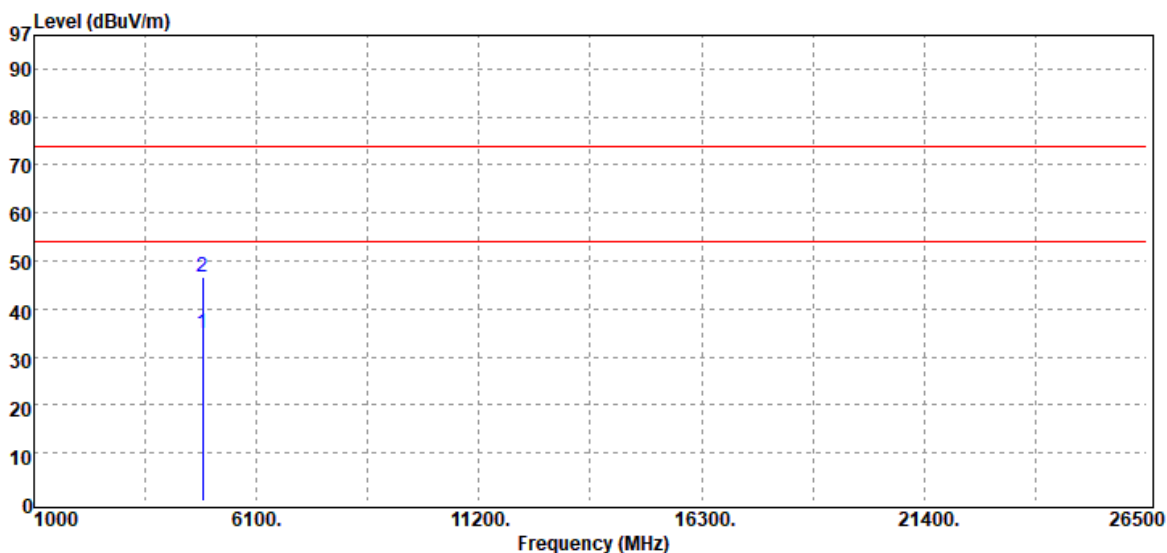
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	27.83	7.09	34.92	54.00	-19.08
4874.00	Peak	39.60	7.09	46.69	74.00	-27.31

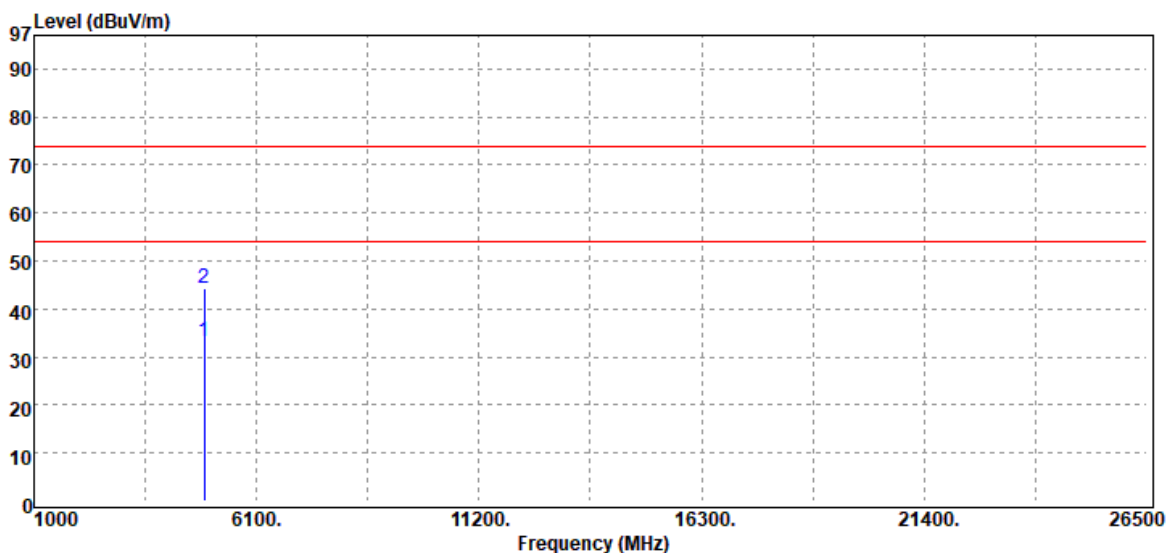
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4904.00	Average	26.23	6.93	33.16	54.00	-20.84
4904.00	Peak	37.42	6.93	44.35	74.00	-29.65

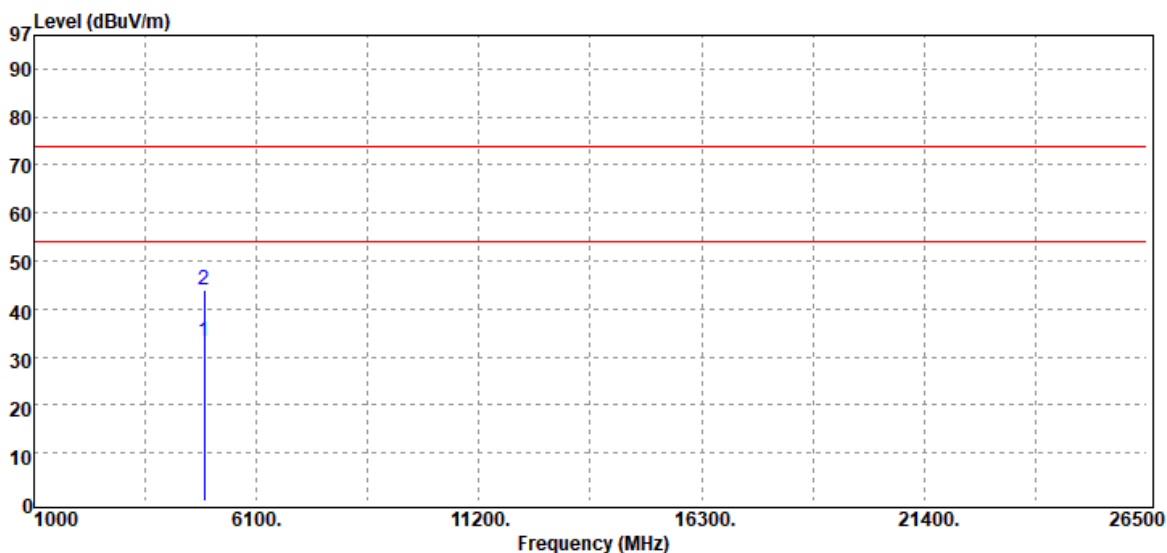
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4904.00	Average	26.21	6.93	33.14	54.00	-20.86
4904.00	Peak	36.94	6.93	43.87	74.00	-30.13

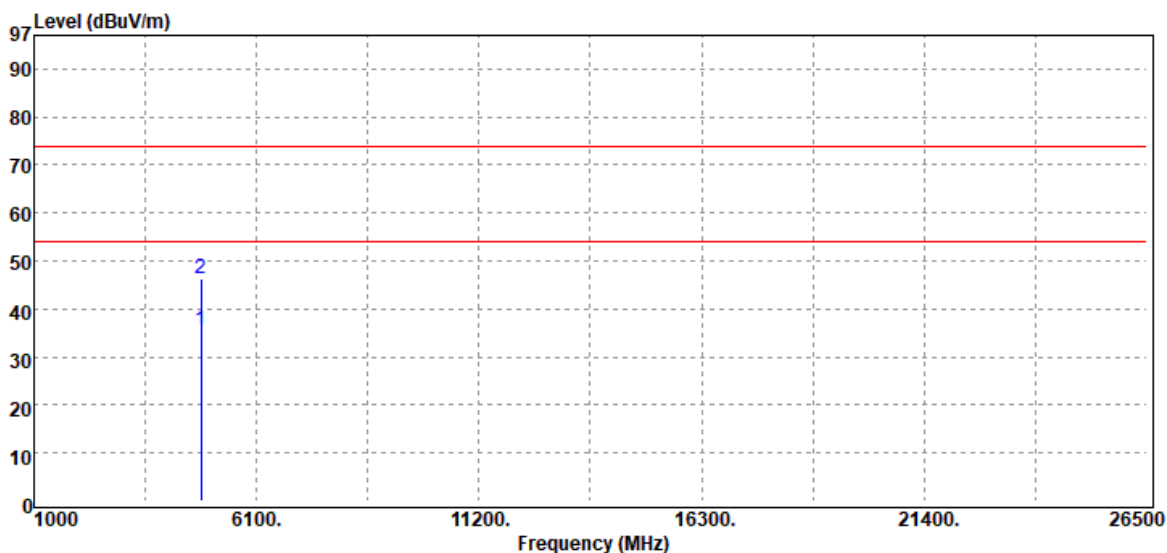
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	28.36	7.38	35.74	54.00	-18.26
4824.00	Peak	38.79	7.38	46.17	74.00	-27.83

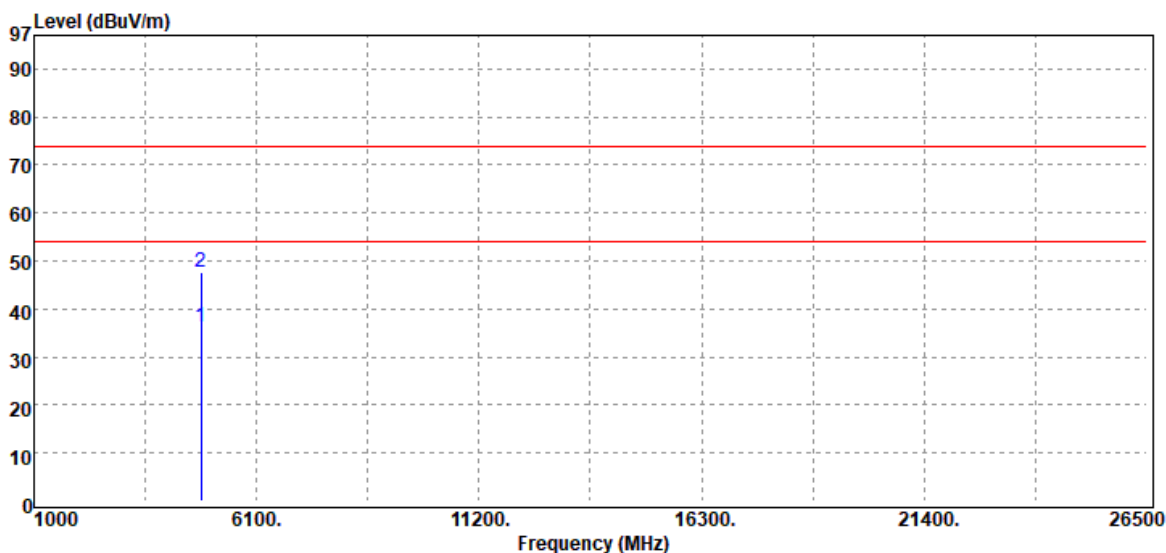
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4824.00	Average	28.91	7.38	36.29	54.00	-17.71
4824.00	Peak	40.41	7.38	47.79	74.00	-26.21

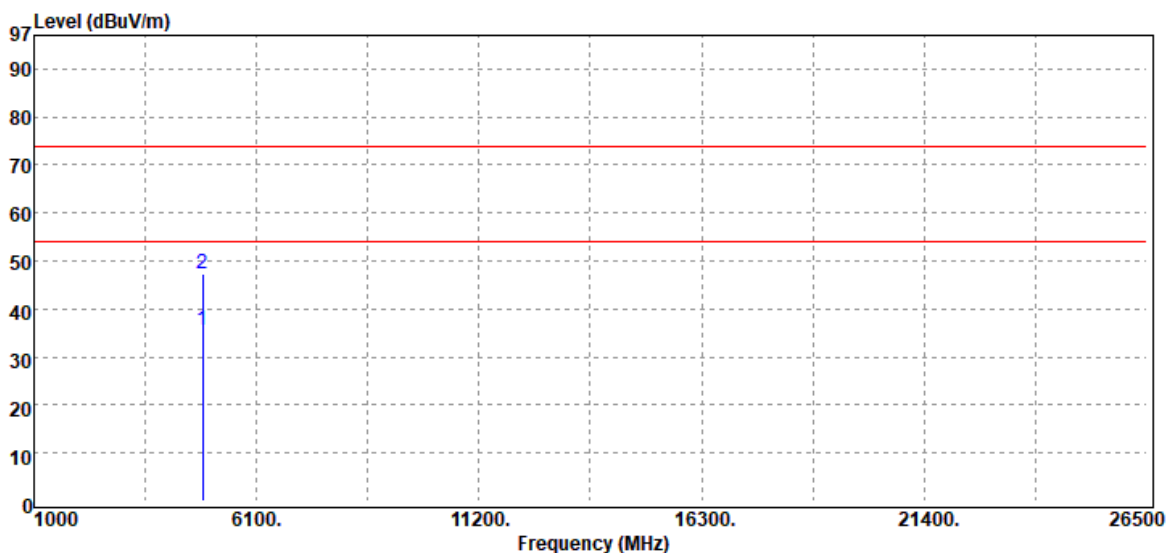
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.50	7.09	35.59	54.00	-18.41
4874.00	Peak	40.19	7.09	47.28	74.00	-26.72

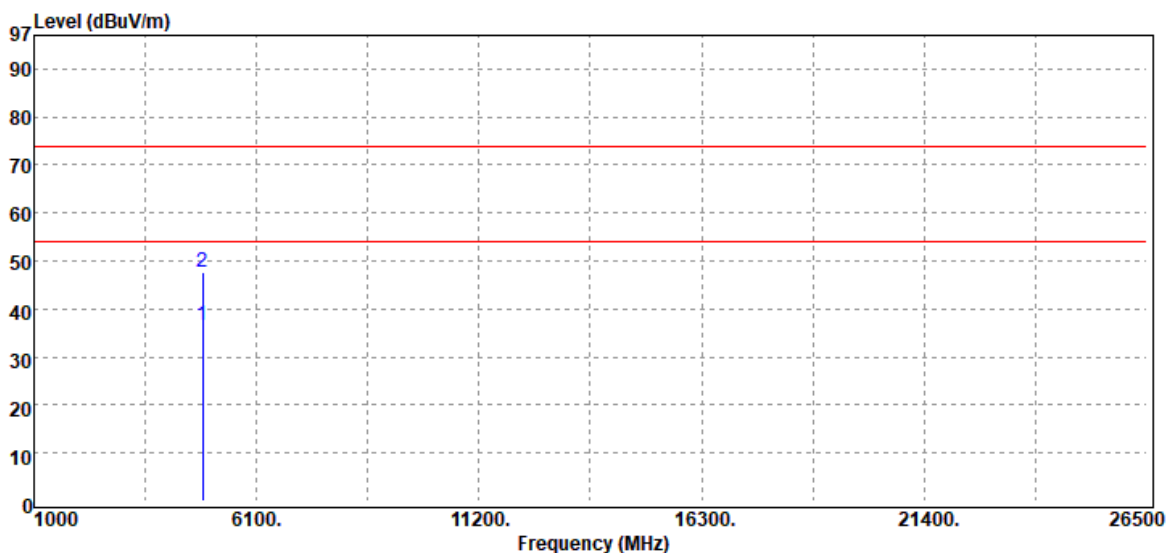
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	29.64	7.09	36.73	54.00	-17.27
4874.00	Peak	40.46	7.09	47.55	74.00	-26.45

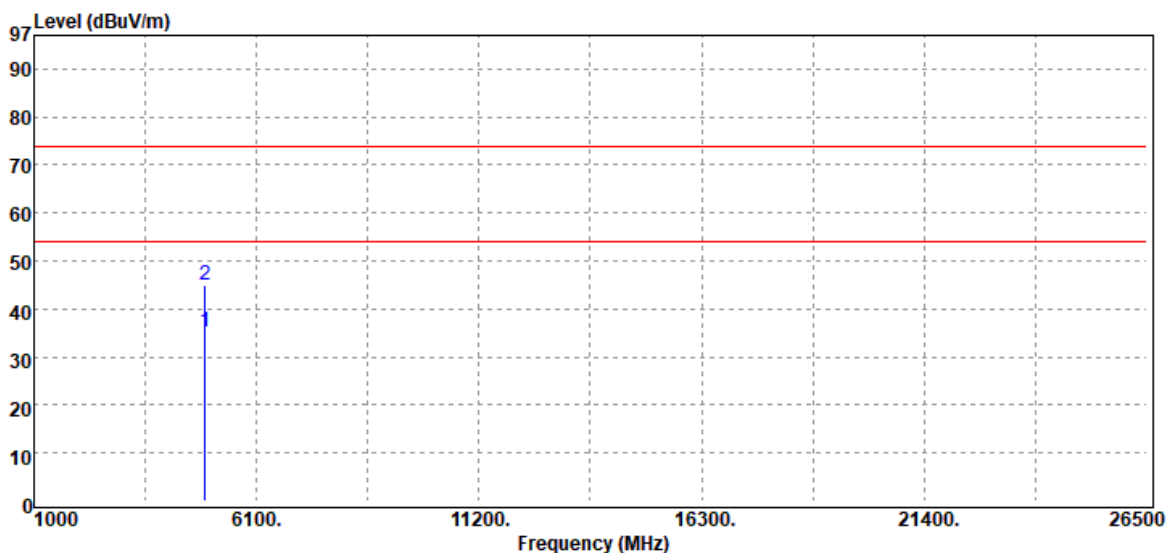
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	28.21	7.06	35.27	54.00	-18.73
4924.00	Peak	37.95	7.06	45.01	74.00	-28.99

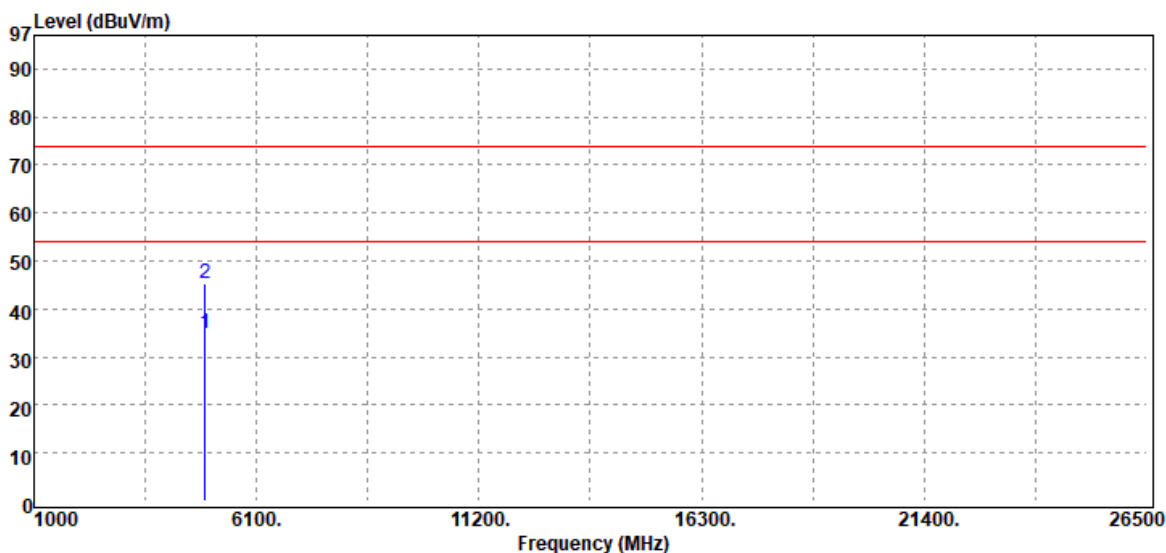
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4924.00	Average	27.95	7.06	35.01	54.00	-18.99
4924.00	Peak	38.40	7.06	45.46	74.00	-28.54

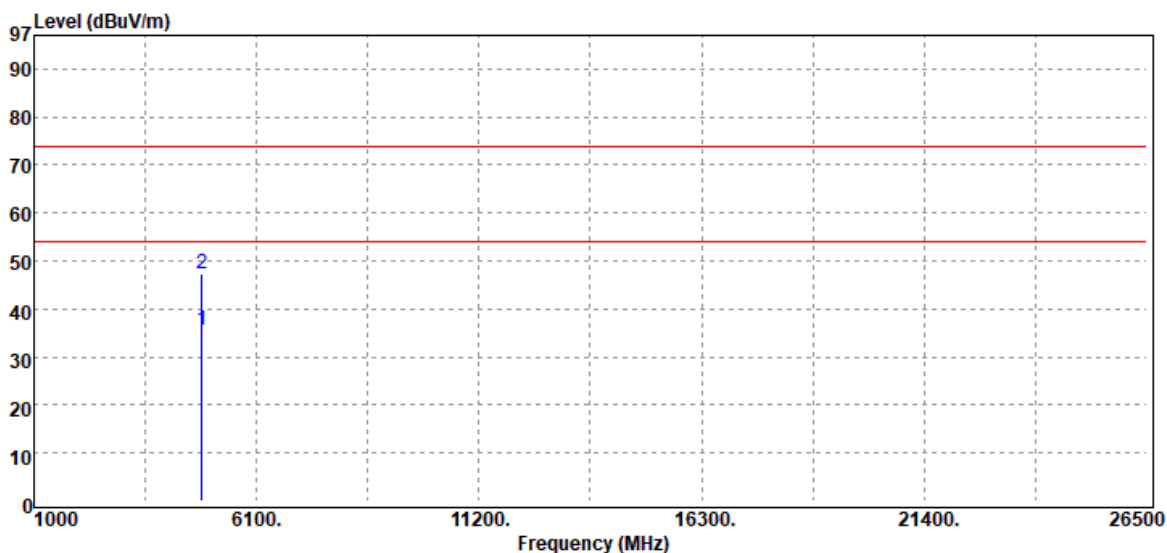
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4844.00	Average	28.26	7.29	35.55	54.00	-18.45
4844.00	Peak	40.12	7.29	47.41	74.00	-26.59

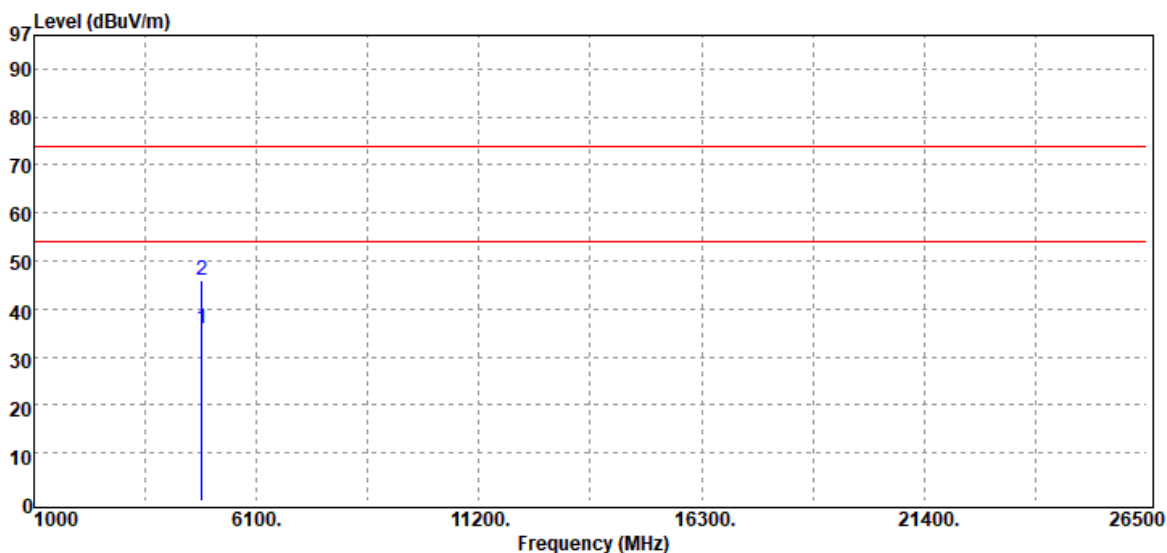
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4844.00	Average	28.78	7.29	36.07	54.00	-17.93
4844.00	Peak	38.63	7.29	45.92	74.00	-28.08

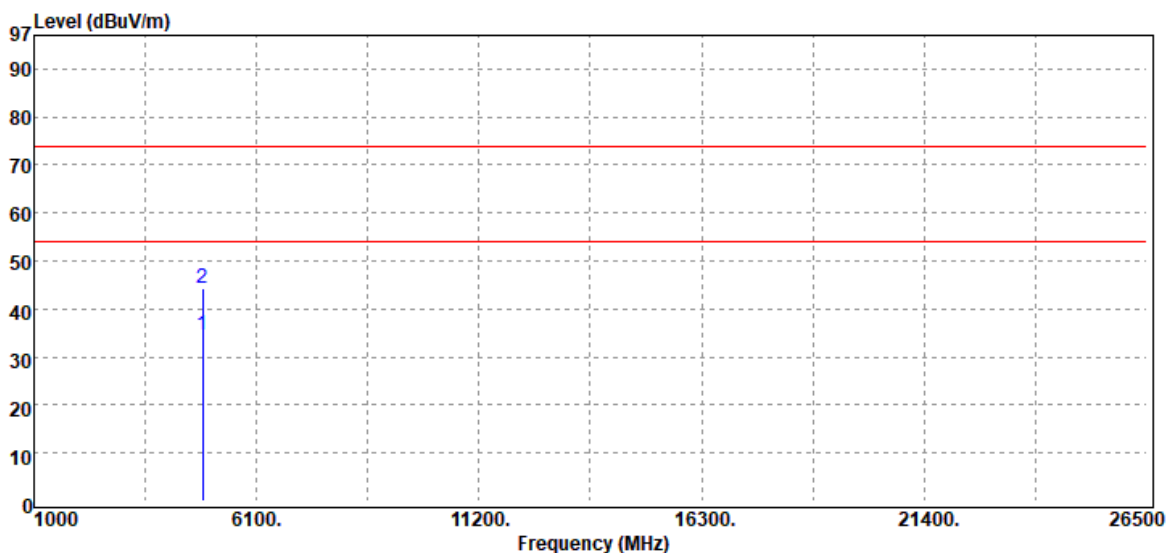
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.64	7.09	34.73	54.00	-19.27
4874.00	Peak	37.26	7.09	44.35	74.00	-29.65

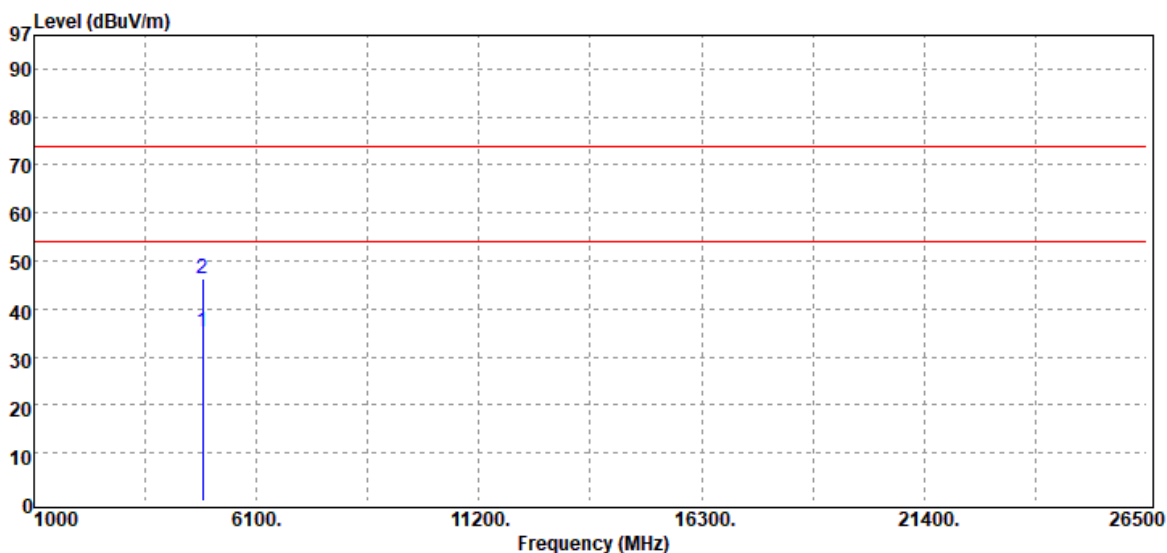
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4874.00	Average	28.03	7.09	35.12	54.00	-18.88
4874.00	Peak	39.19	7.09	46.28	74.00	-27.72

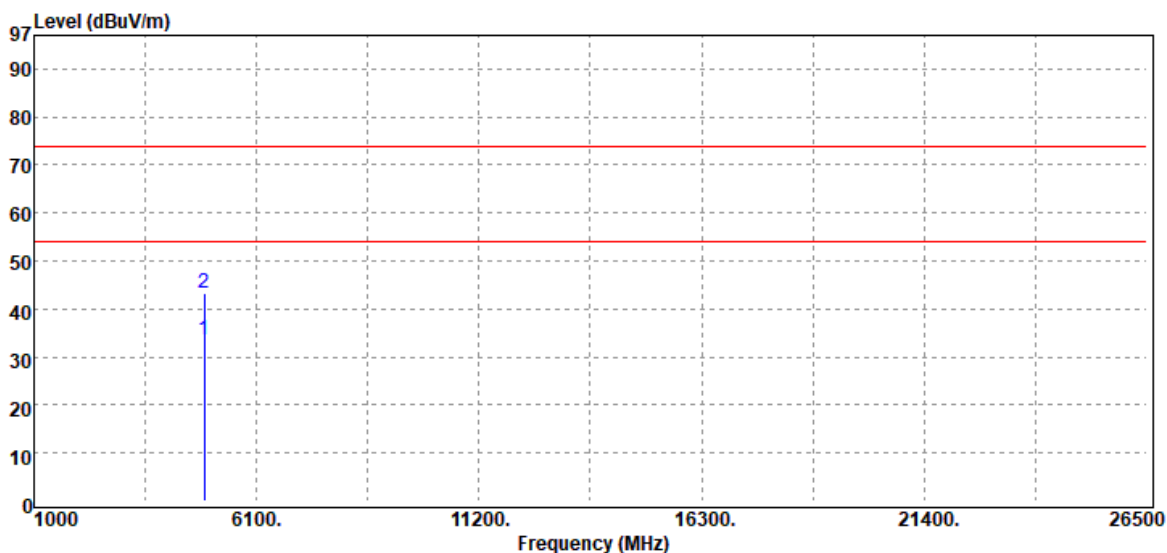
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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
4904.00	Average	26.64	6.93	33.57	54.00	-20.43
4904.00	Peak	36.47	6.93	43.40	74.00	-30.60

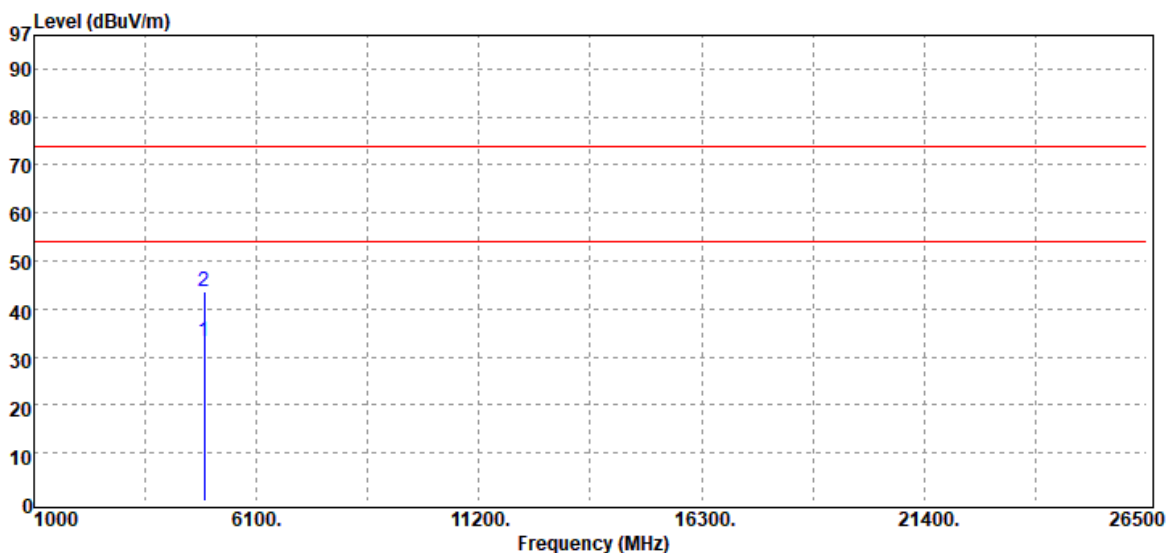
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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
4904.00	Average	26.31	6.93	33.24	54.00	-20.76
4904.00	Peak	36.76	6.93	43.69	74.00	-30.31

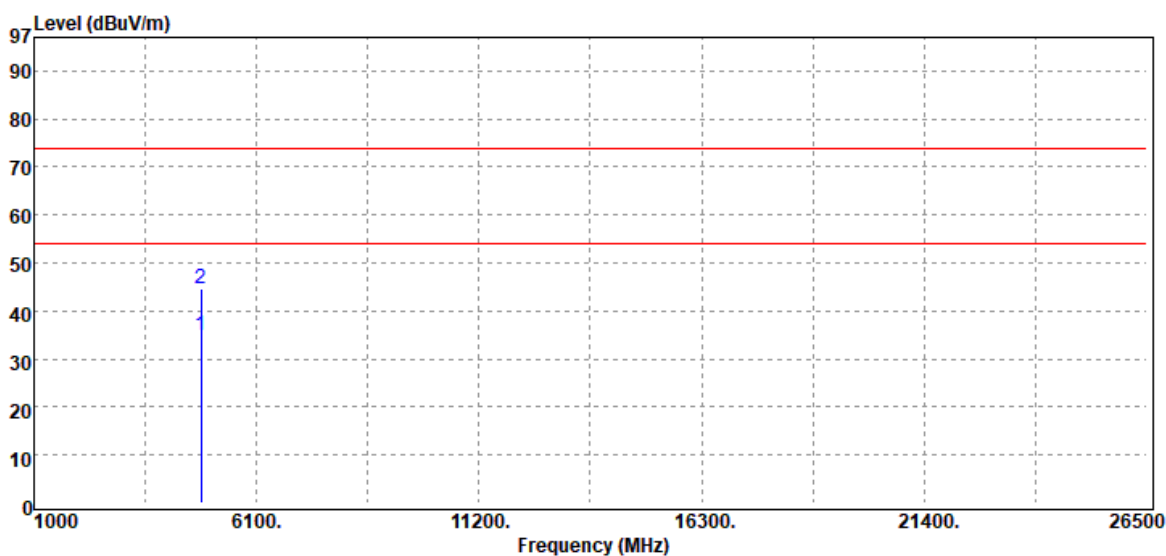
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Beamforming

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2021-03-17
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.59	7.38	34.97	54.00	-19.03
4824.00	Peak	37.23	7.38	44.61	74.00	-29.39

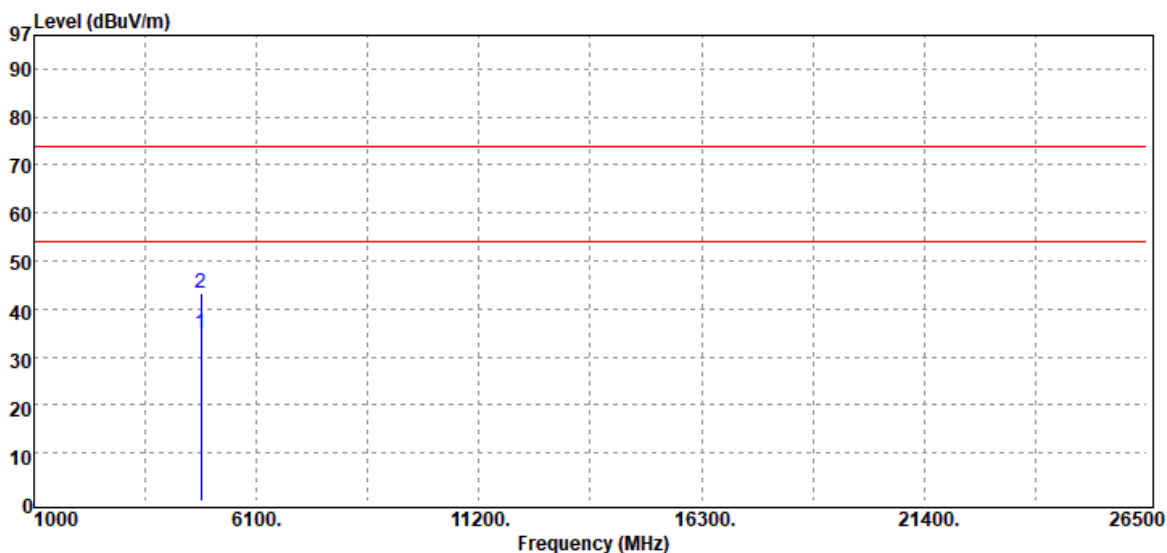
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	27.57	7.38	34.95	54.00	-19.05
4824.00	Peak	36.08	7.38	43.46	74.00	-30.54

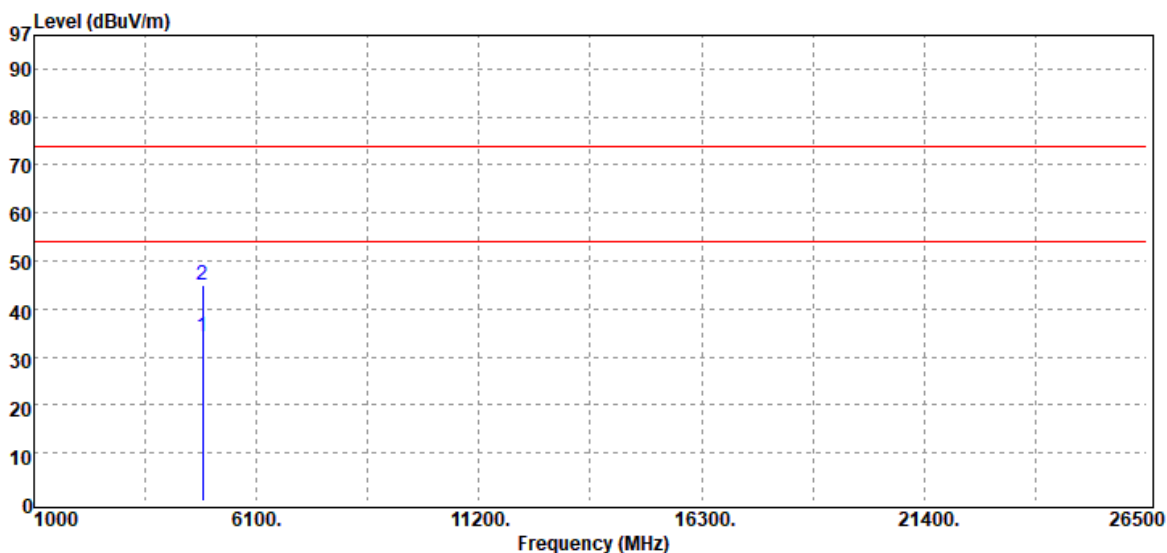
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.24	7.09	34.33	54.00	-19.67
4874.00	Peak	37.88	7.09	44.97	74.00	-29.03

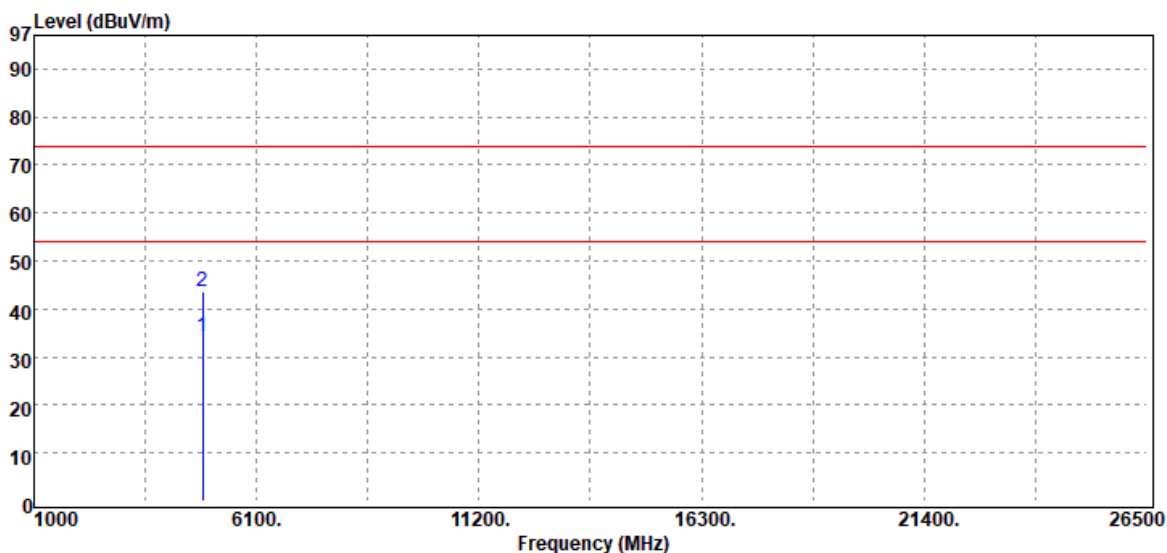
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.12	7.09	34.21	54.00	-19.79
4874.00	Peak	36.56	7.09	43.65	74.00	-30.35

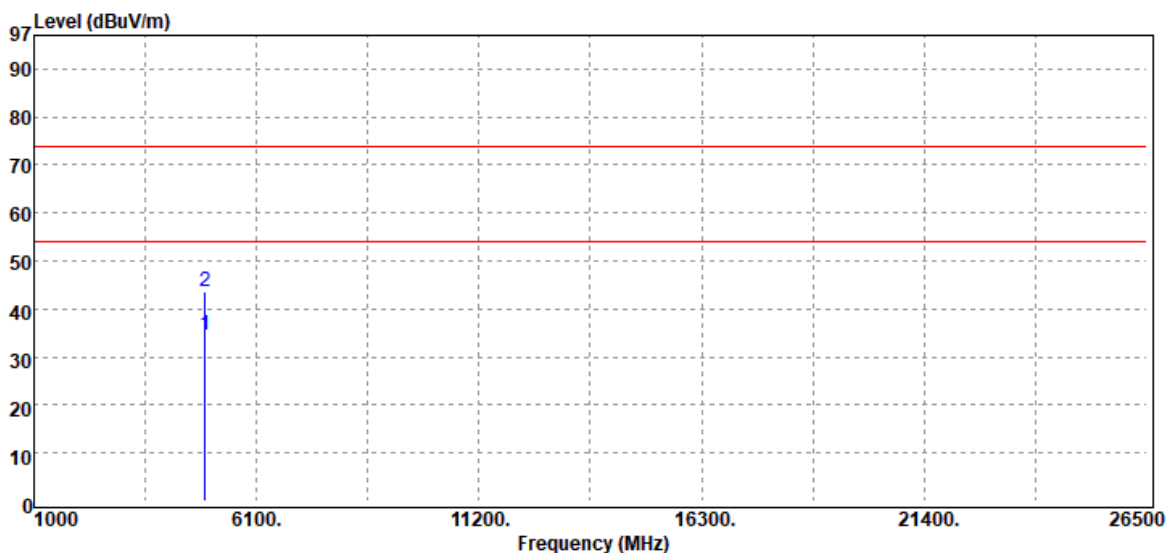
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	27.46	7.06	34.52	54.00	-19.48
4924.00	Peak	36.55	7.06	43.61	74.00	-30.39

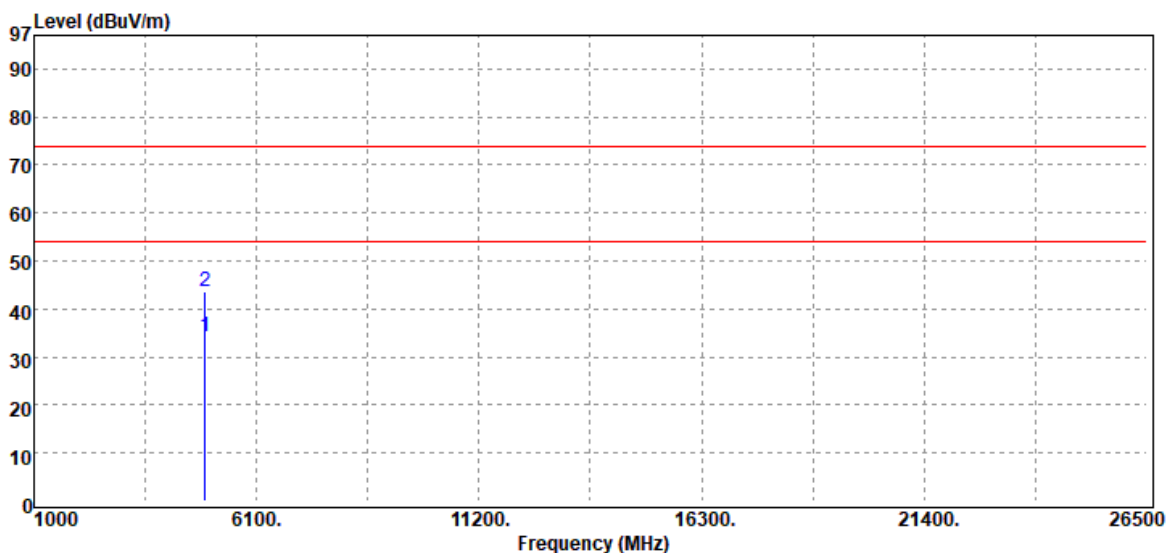
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	27.25	7.06	34.31	54.00	-19.69
4924.00	Peak	36.69	7.06	43.75	74.00	-30.25

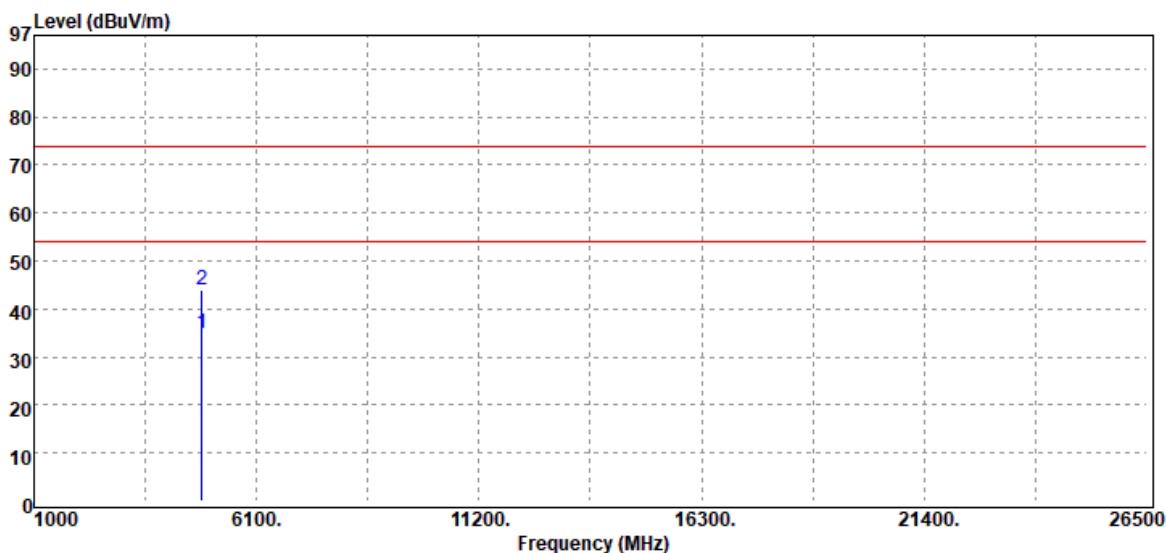
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4844.00	Average	27.60	7.29	34.89	54.00	-19.11
4844.00	Peak	36.82	7.29	44.11	74.00	-29.89

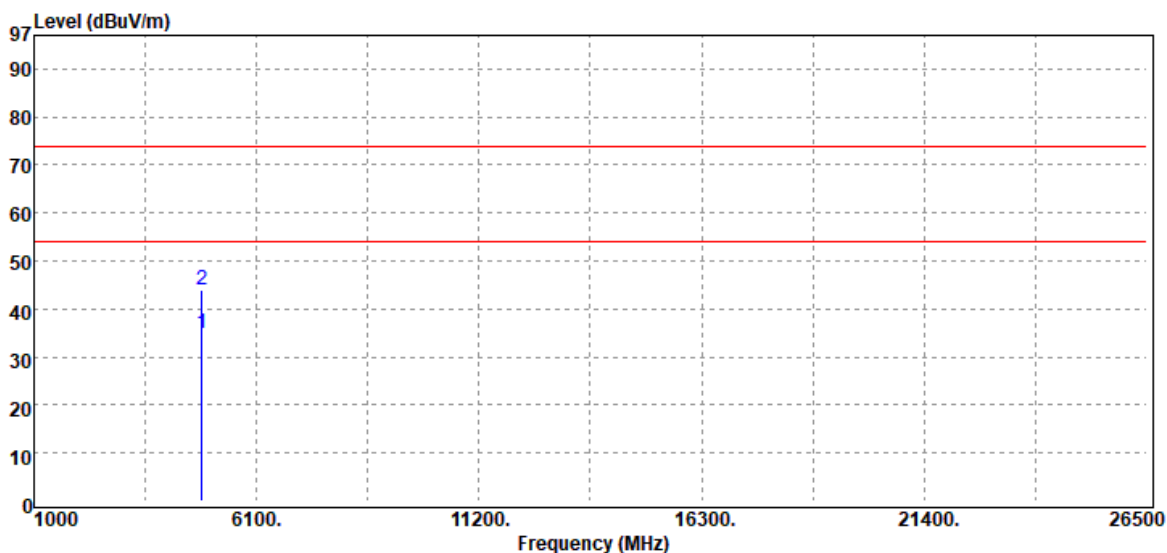
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4844.00	Average	27.45	7.29	34.74	54.00	-19.26
4844.00	Peak	36.64	7.29	43.93	74.00	-30.07

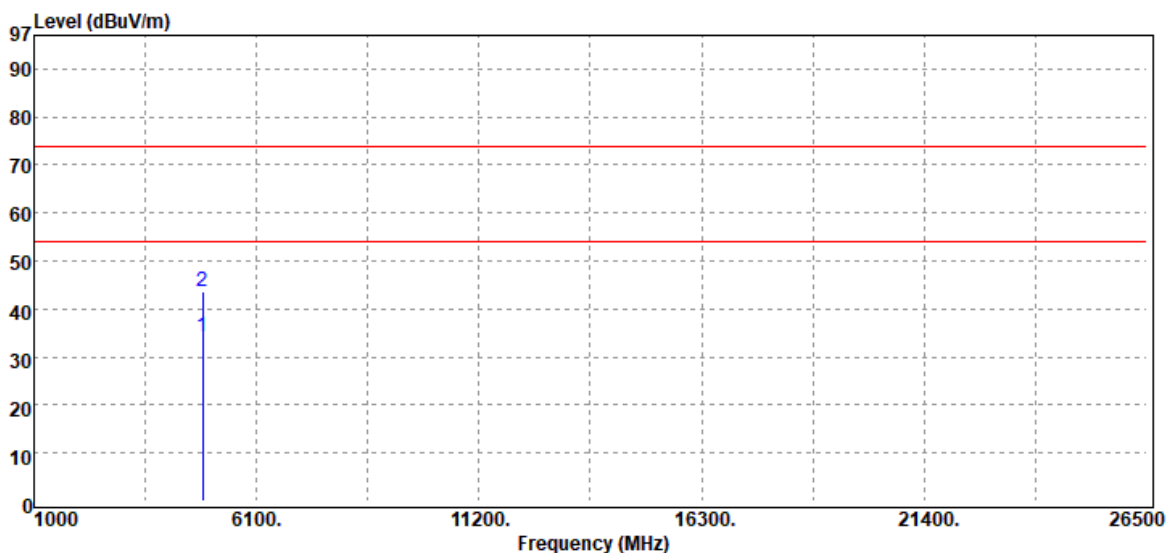
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.18	7.09	34.27	54.00	-19.73
4874.00	Peak	36.62	7.09	43.71	74.00	-30.29

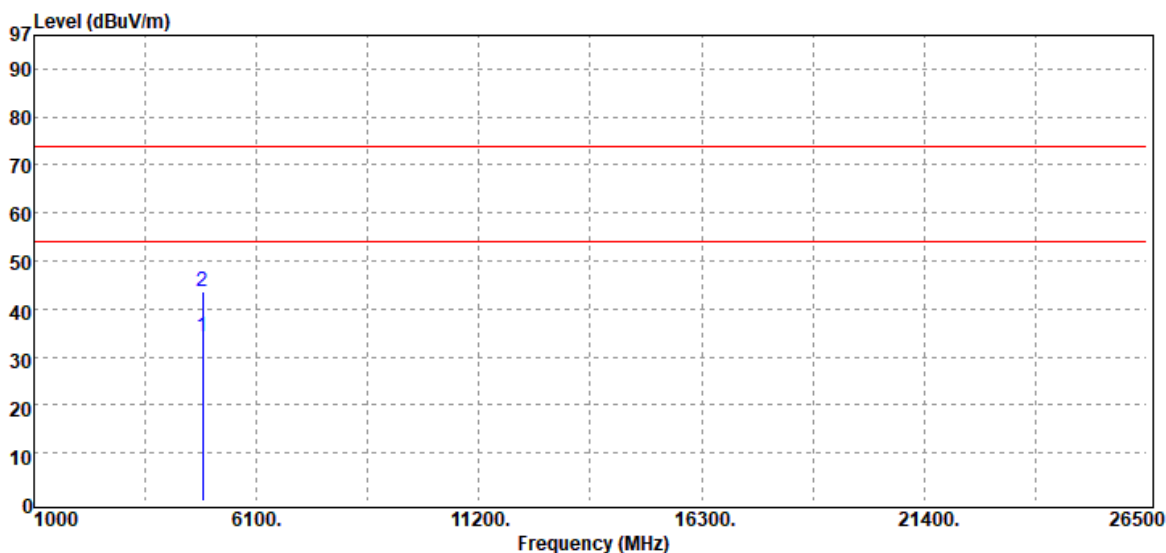
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.05	7.09	34.14	54.00	-19.86
4874.00	Peak	36.41	7.09	43.50	74.00	-30.50

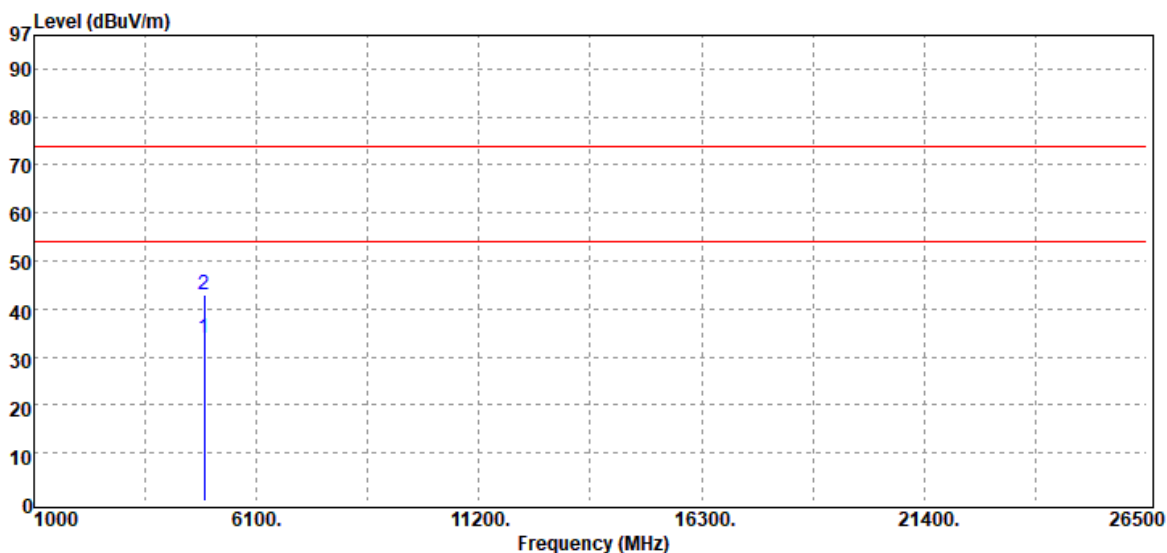
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4904.00	Average	27.06	6.93	33.99	54.00	-20.01
4904.00	Peak	36.18	6.93	43.11	74.00	-30.89

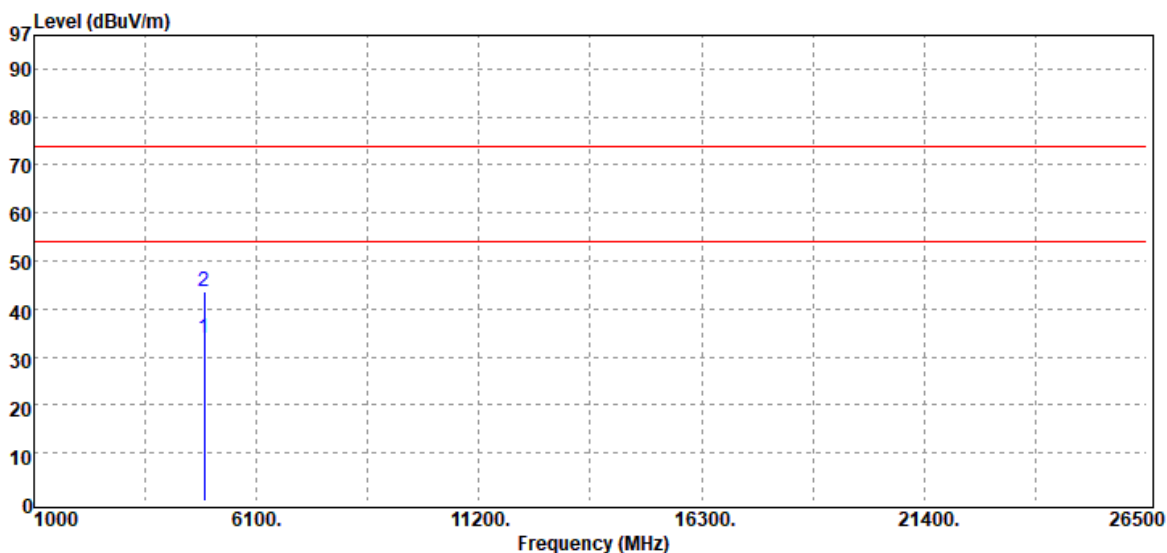
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4904.00	Average	26.90	6.93	33.83	54.00	-20.17
4904.00	Peak	36.72	6.93	43.65	74.00	-30.35

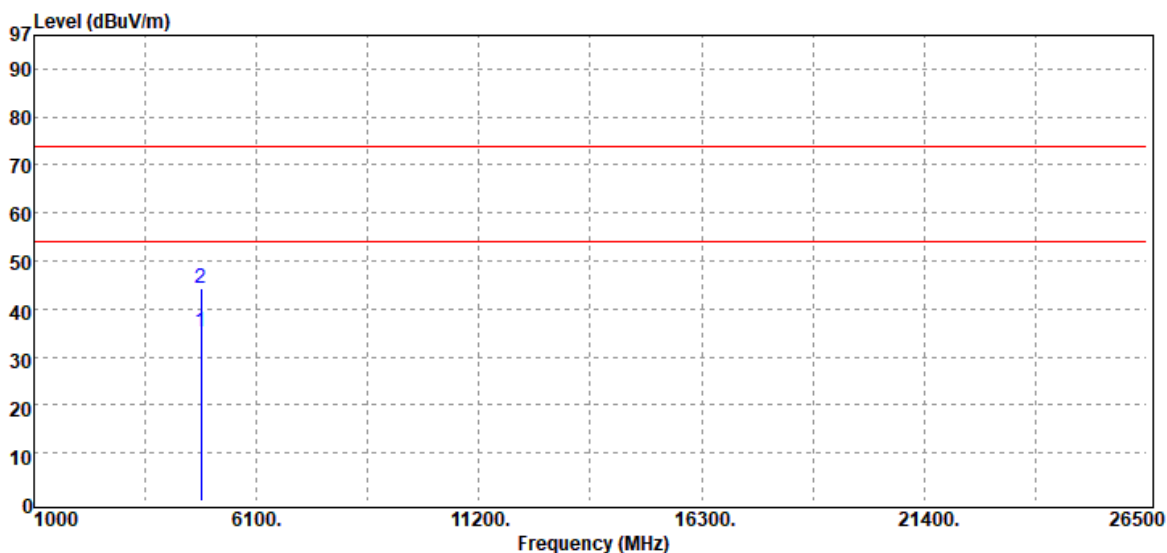
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	27.98	7.38	35.36	54.00	-18.64
4824.00	Peak	36.87	7.38	44.25	74.00	-29.75

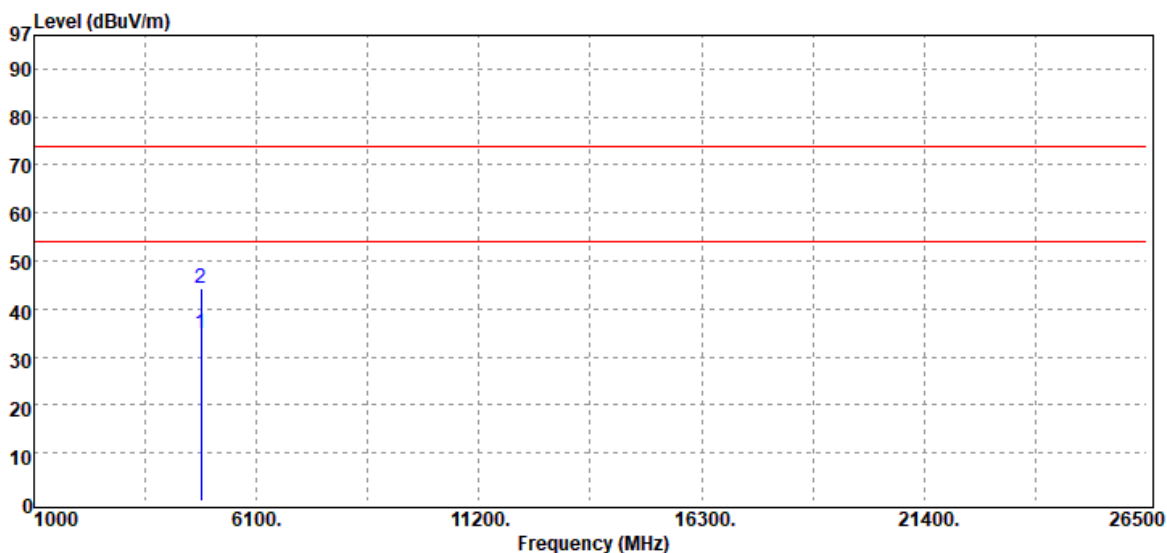
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	27.66	7.38	35.04	54.00	-18.96
4824.00	Peak	36.89	7.38	44.27	74.00	-29.73

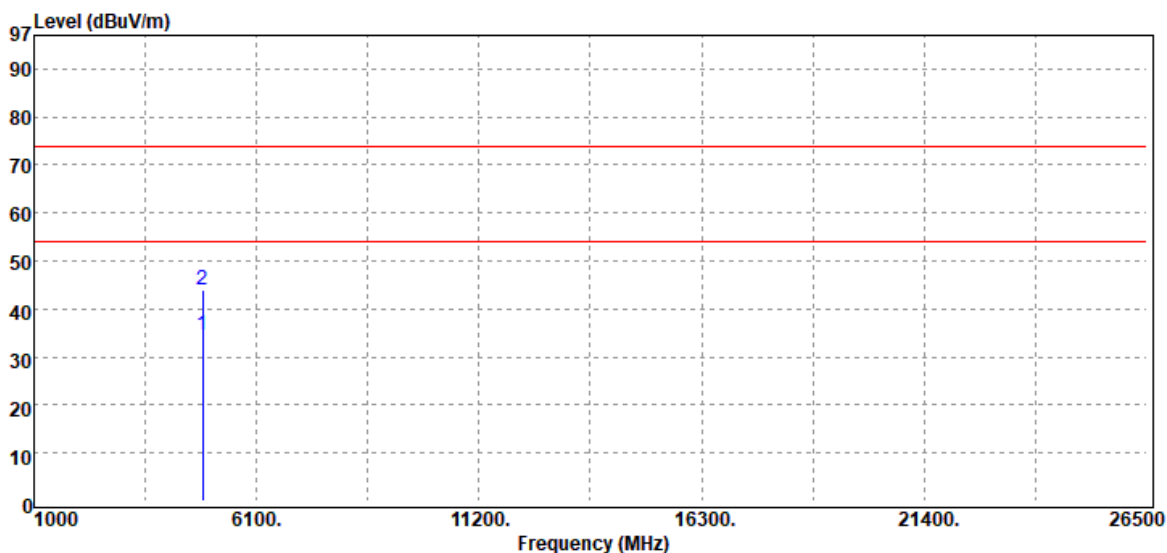
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.39	7.09	34.48	54.00	-19.52
4874.00	Peak	36.87	7.09	43.96	74.00	-30.04

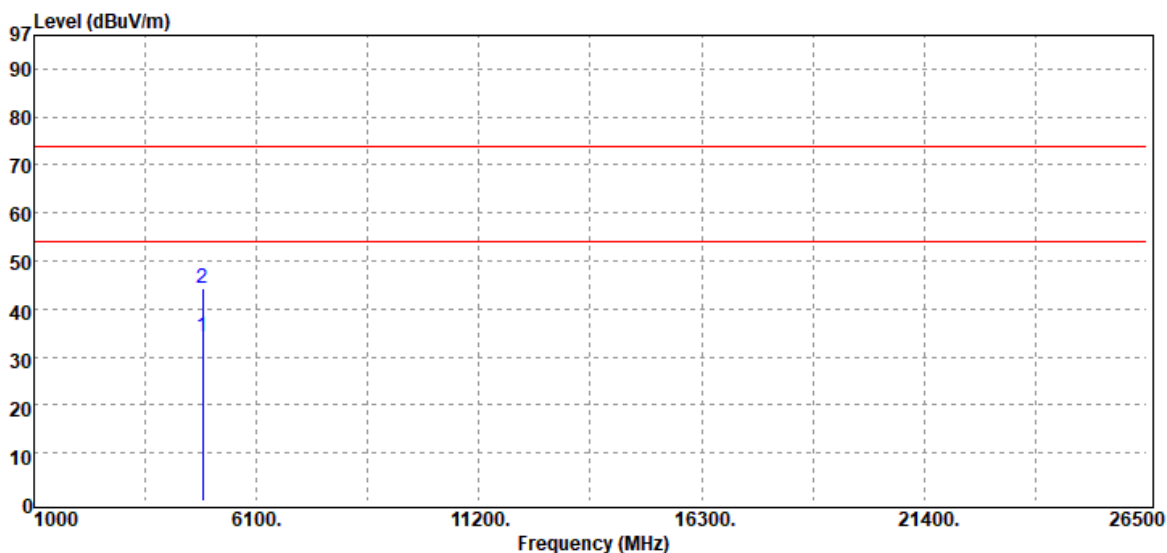
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.27	7.09	34.36	54.00	-19.64
4874.00	Peak	37.11	7.09	44.20	74.00	-29.80

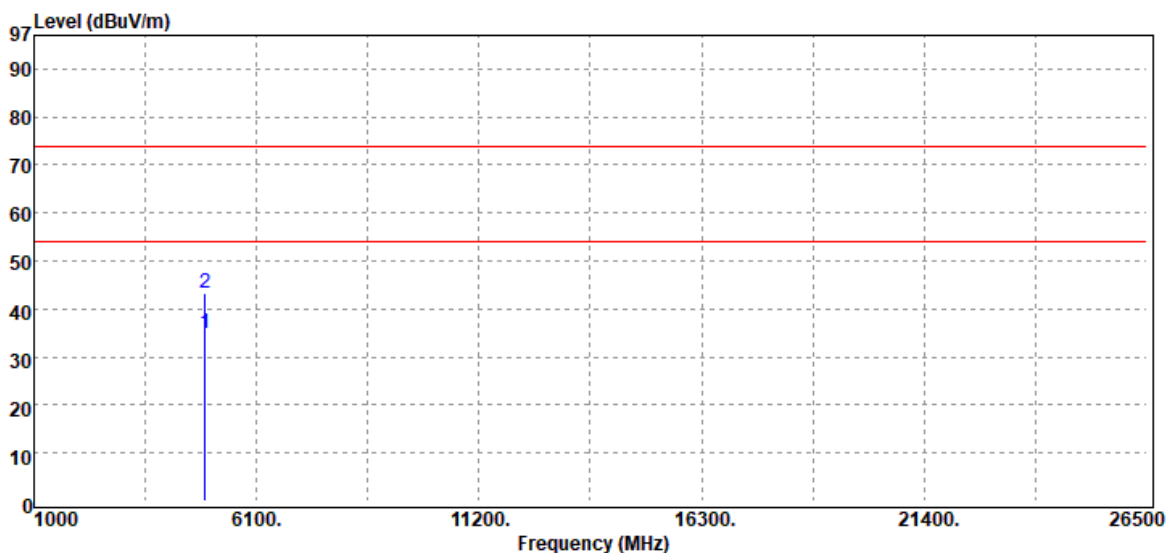
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	27.71	7.06	34.77	54.00	-19.23
4924.00	Peak	36.27	7.06	43.33	74.00	-30.67

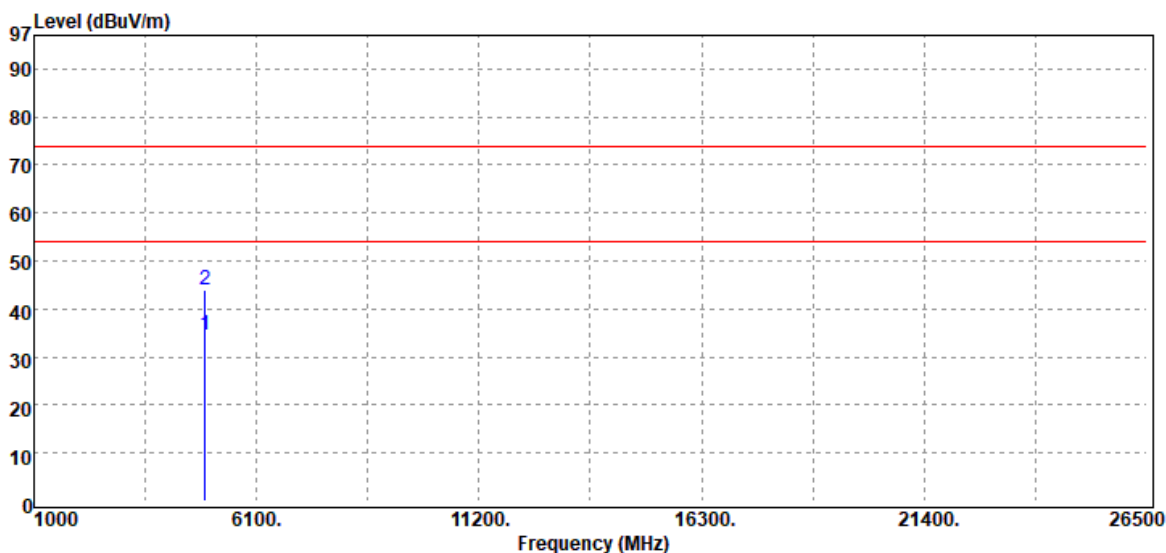
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	27.41	7.06	34.47	54.00	-19.53
4924.00	Peak	36.85	7.06	43.91	74.00	-30.09

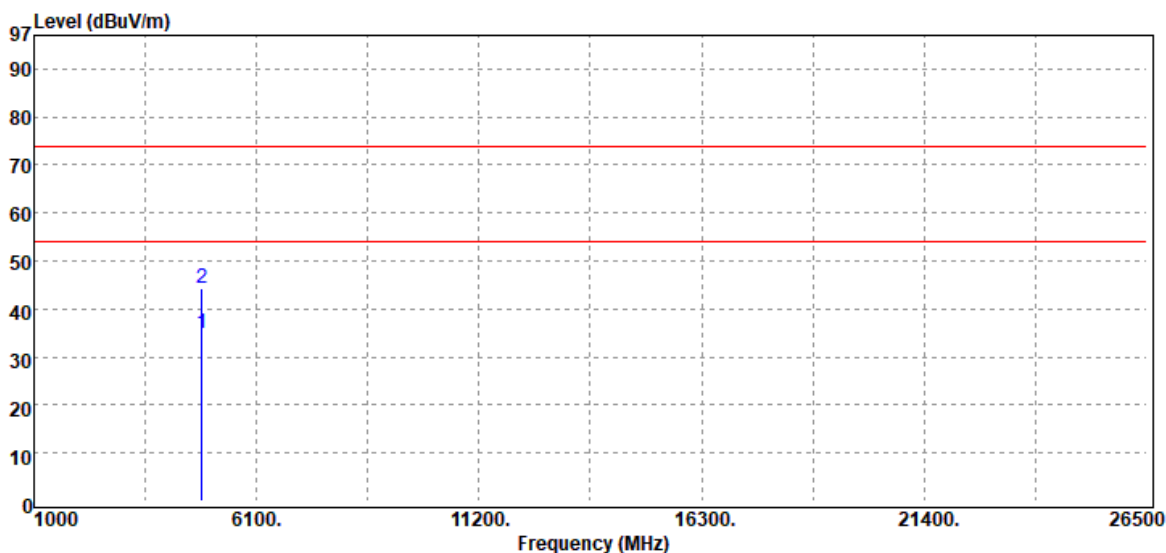
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	27.68	7.29	34.97	54.00	-19.03
4844.00	Peak	36.86	7.29	44.15	74.00	-29.85

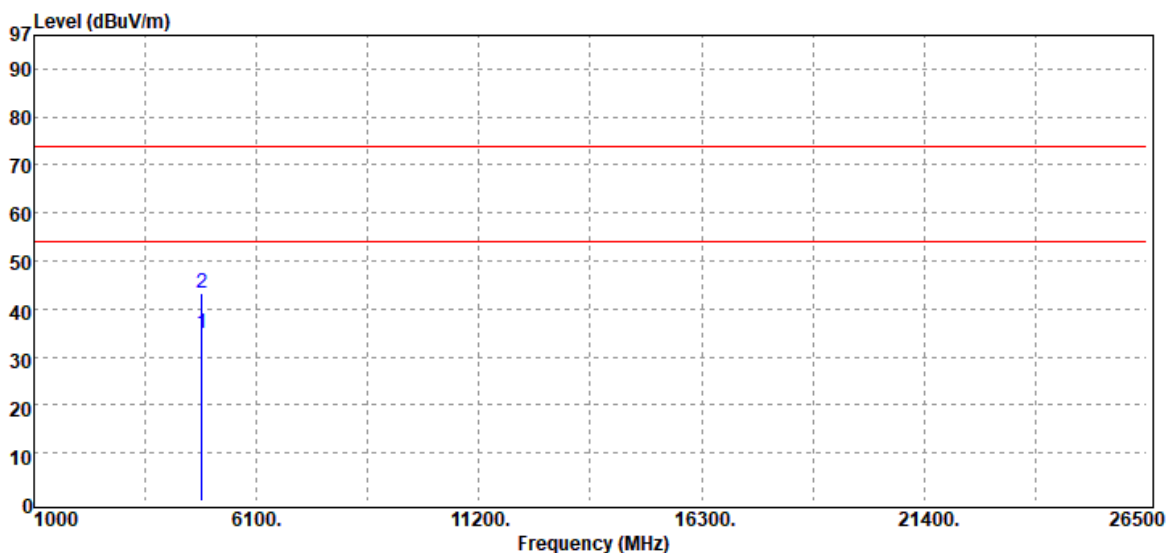
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4844.00	Average	27.51	7.29	34.80	54.00	-19.20
4844.00	Peak	36.15	7.29	43.44	74.00	-30.56

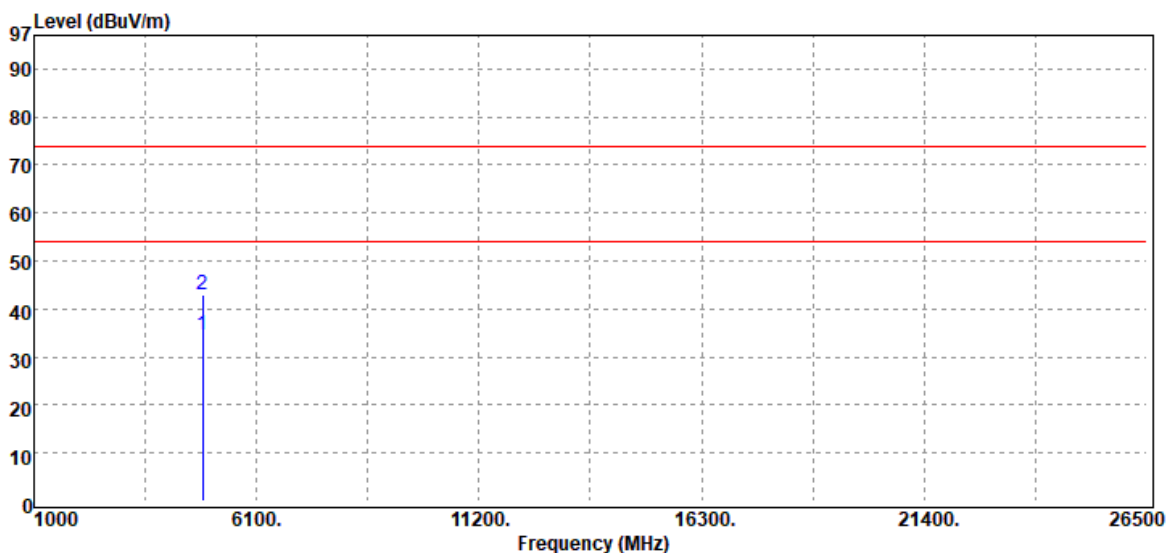
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.32	7.09	34.41	54.00	-19.59
4874.00	Peak	35.90	7.09	42.99	74.00	-31.01

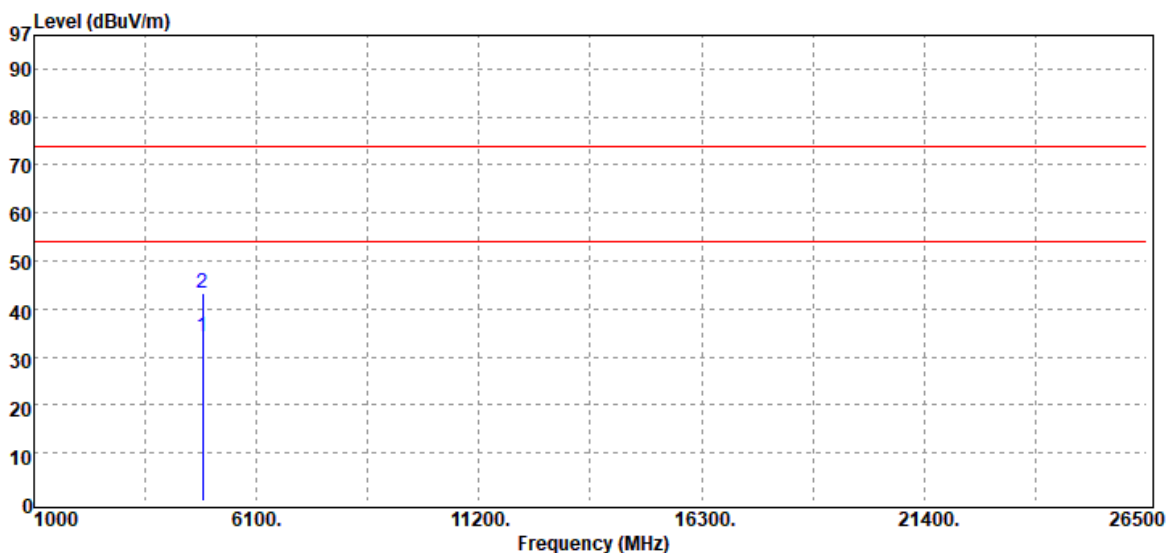
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	27.01	7.09	34.10	54.00	-19.90
4874.00	Peak	36.25	7.09	43.34	74.00	-30.66

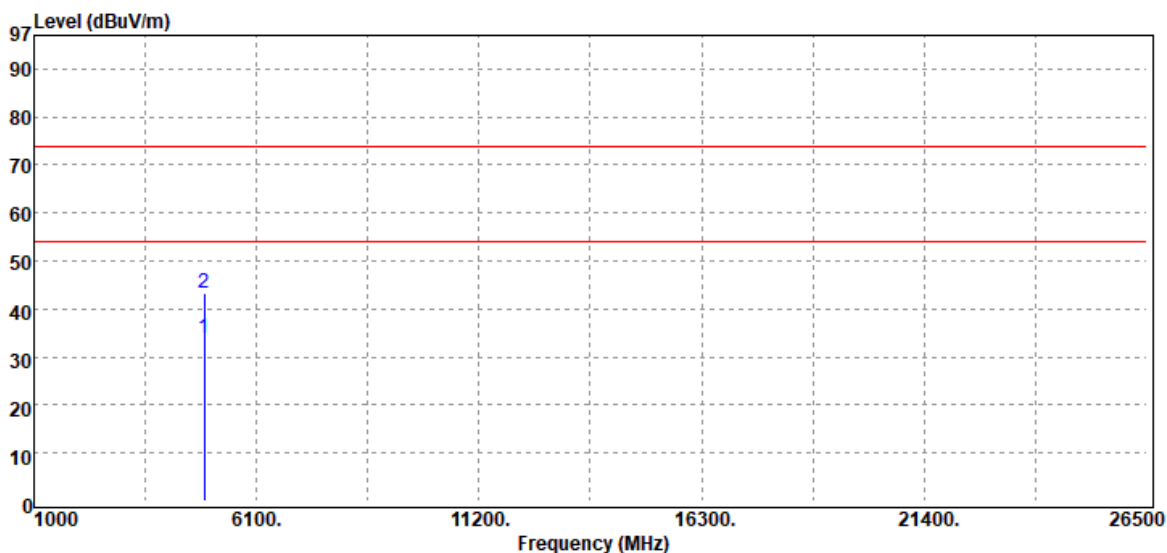
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	27.02	6.93	33.95	54.00	-20.05
4904.00	Peak	36.31	6.93	43.24	74.00	-30.76

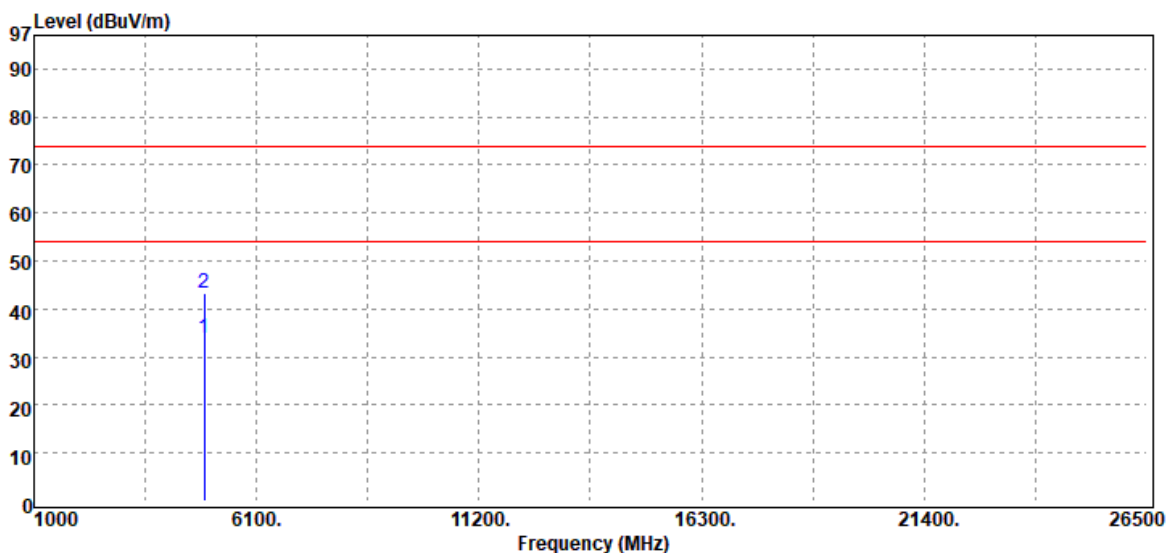
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4904.00	Average	26.87	6.93	33.80	54.00	-20.20
4904.00	Peak	36.48	6.93	43.41	74.00	-30.59

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

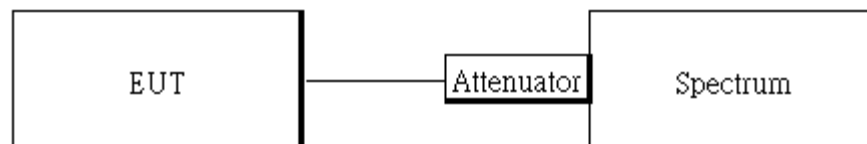
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

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12.6 Power spectral density

CDD

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	0.67	1.63	4.19	8.00	PASS
2437	1.46	0.82	4.16	8.00	PASS
2462	0.89	1.47	4.20	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.32	-7.53	-5.32	8.00	PASS
2437	-9.41	-8.18	-5.74	8.00	PASS
2462	-8.23	-8.3	-5.25	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.42	-6.4	-3.40	8.00	PASS
2437	-7.37	-6.54	-3.92	8.00	PASS
2462	-6.68	-6.58	-3.62	8.00	PASS

POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-8.61	-7.51	-5.01	8.00	PASS
	26/0	-5.54	-4.73	-2.11	8.00	PASS
	52/37	-5.37	-5.3	-2.32	8.00	PASS
	106/53	-9.57	-7.2	-5.21	8.00	PASS
2437	full	-8.62	-7.55	-5.04	8.00	PASS
2462	full	-8.11	-7.41	-4.74	8.00	PASS
	26/8	-5.85	-5.42	-2.62	8.00	PASS
	52/40	-6.21	-5.49	-2.82	8.00	PASS
	106/54	-9.23	-7.96	-5.54	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-8.58	-10.2	-6.30	8.00	PASS
2437	-8.36	-9.05	-5.68	8.00	PASS
2452	-13.33	-13.78	-10.54	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-9.92	-9.8	-6.85	8.00	PASS
	242/61	-11.62	-11.7	-8.65	8.00	PASS
2437	full	-11.21	-10.23	-7.68	8.00	PASS
2452	full	-15.26	-13.82	-11.47	8.00	PASS
	242/62	-10.63	-10.24	-7.42	8.00	PASS

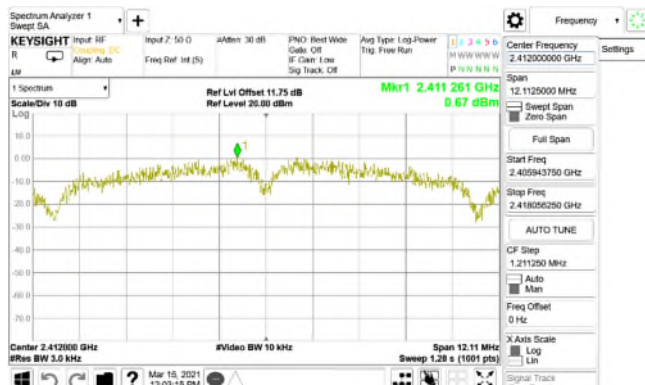
*Refer to next page for plots

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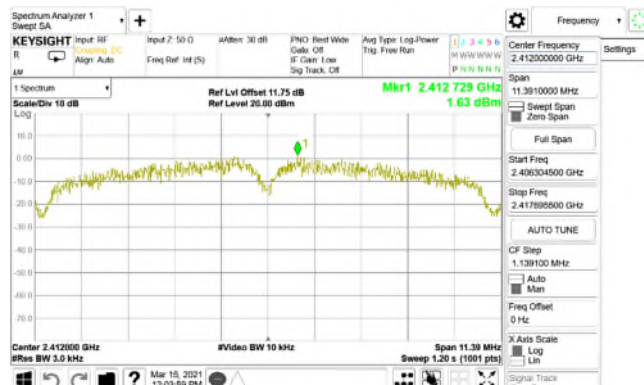
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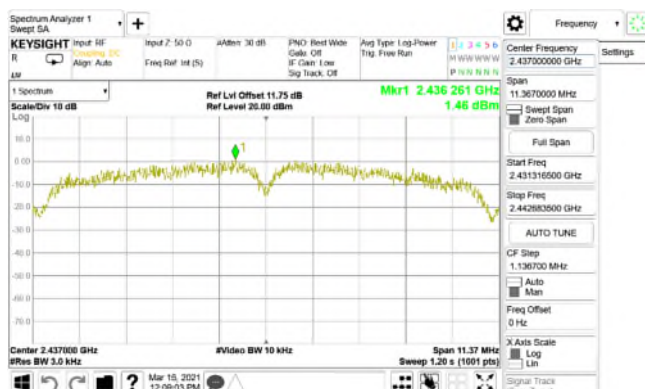
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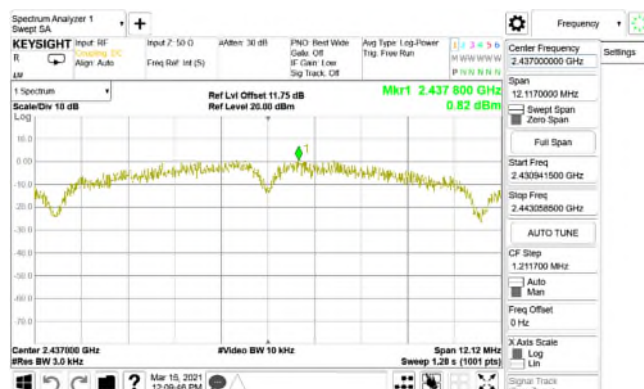
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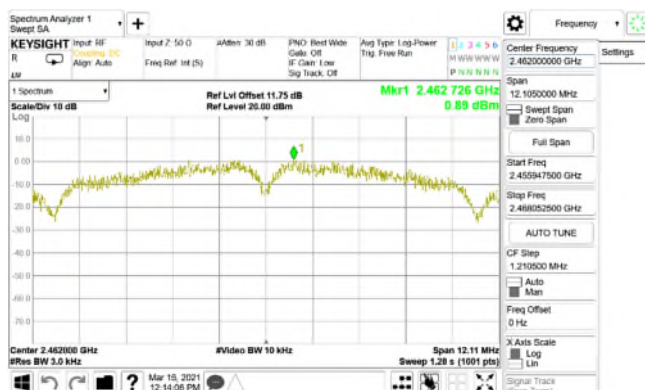
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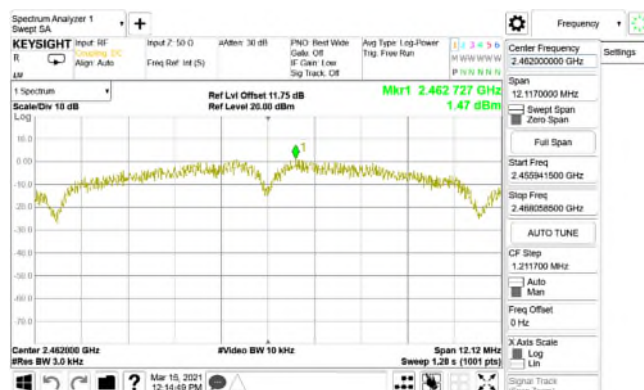
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Power Density_802.11b_20MHz_Chain0_2462MHz



Power Density_802.11b_20MHz_Chain1_2462MHz

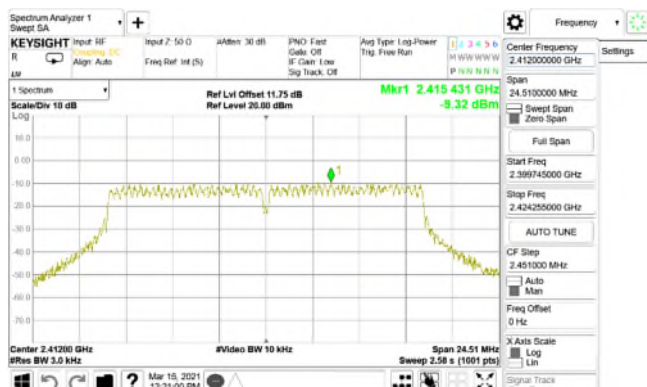


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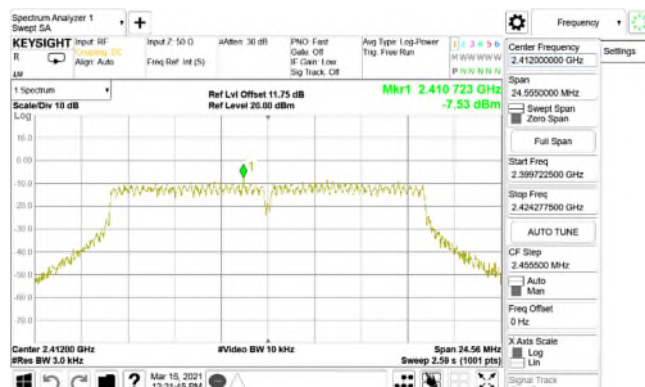
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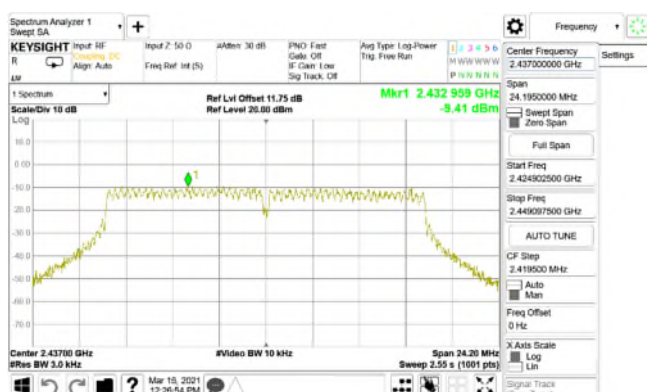
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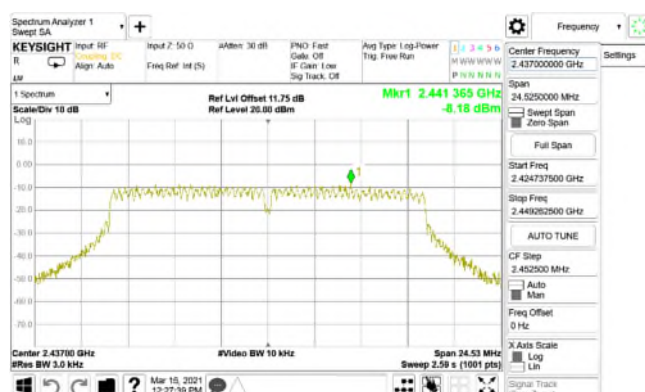
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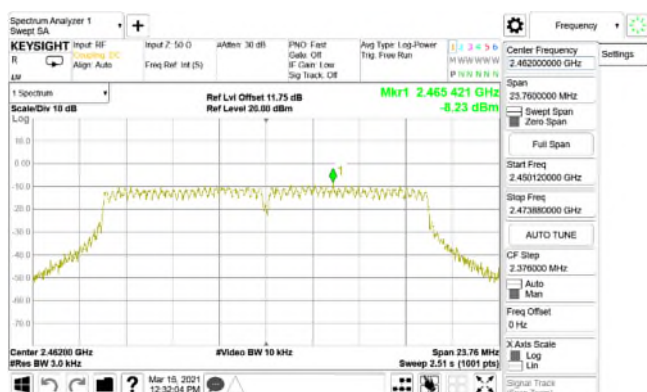
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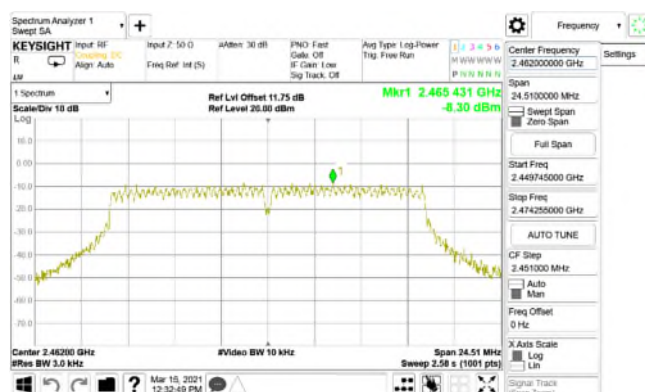
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Power Density_802.11g_20MHz_Chain0_2462MHz



Power Density_802.11g_20MHz_Chain1_2462MHz

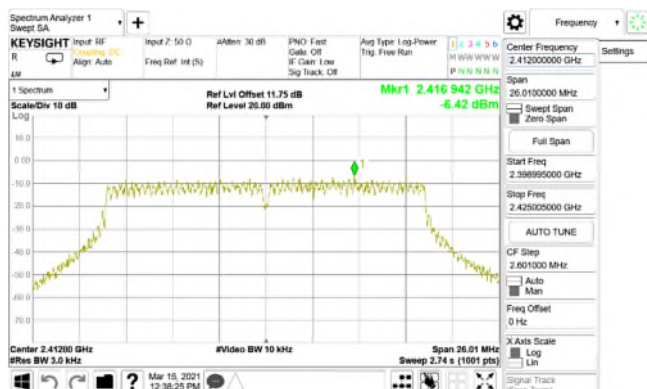


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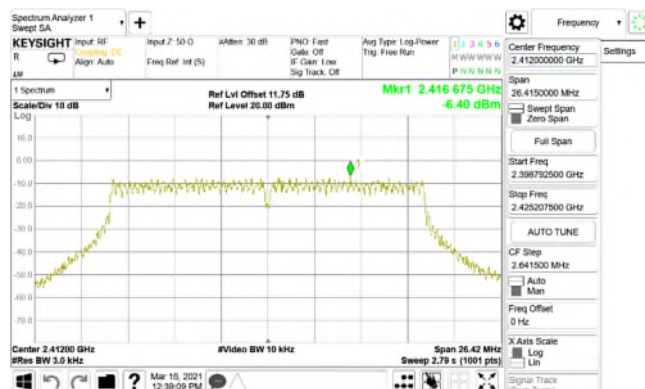
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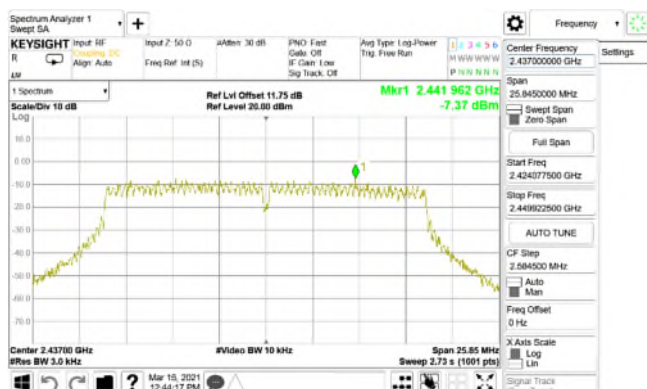
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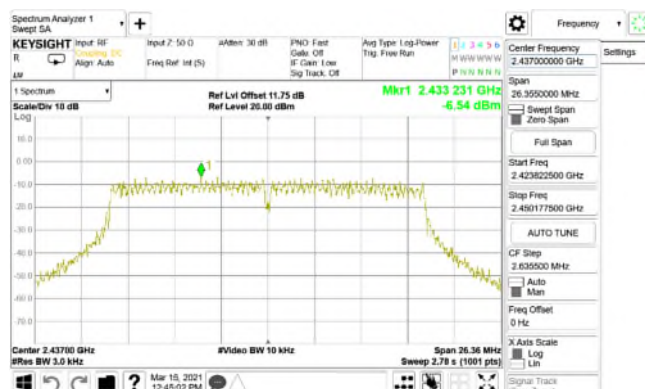
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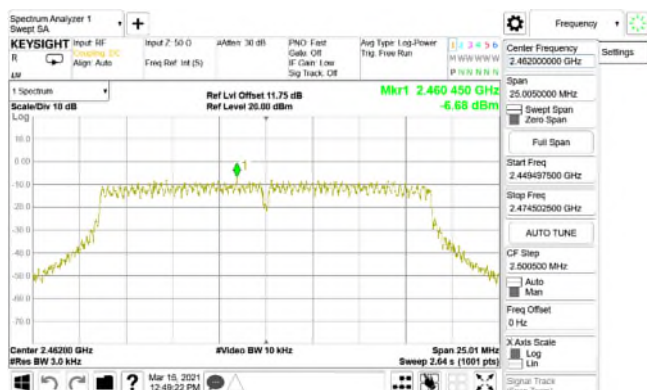
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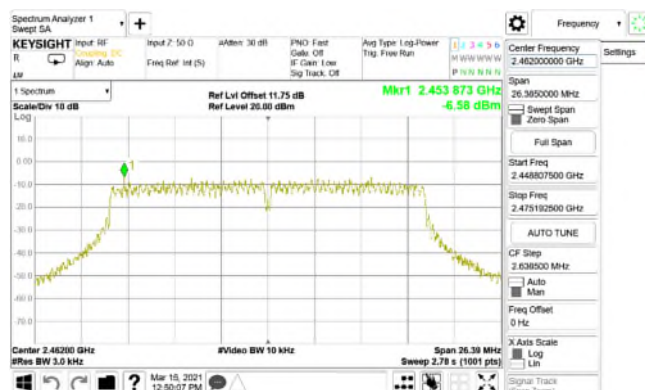
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Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain1_2462MHz

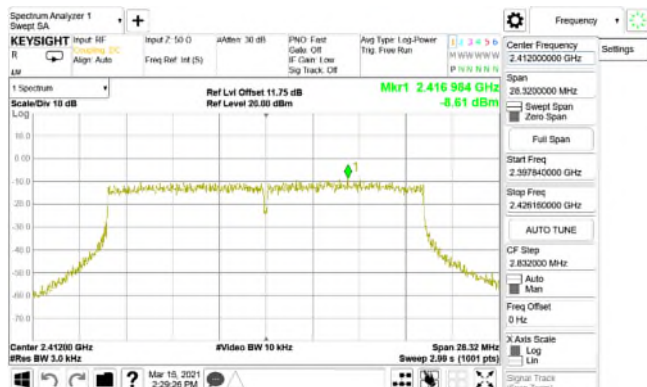


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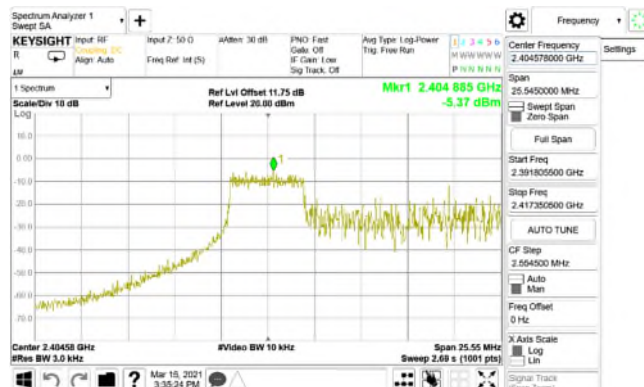
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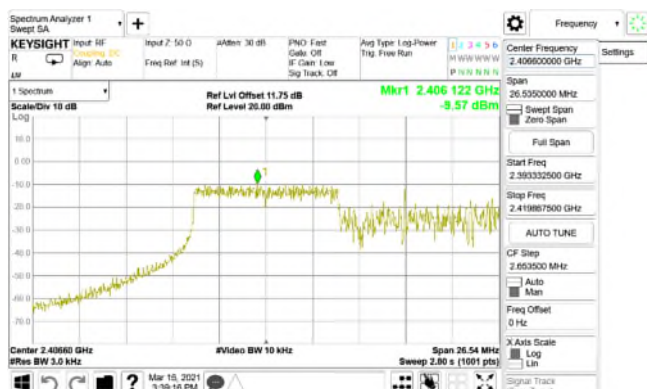
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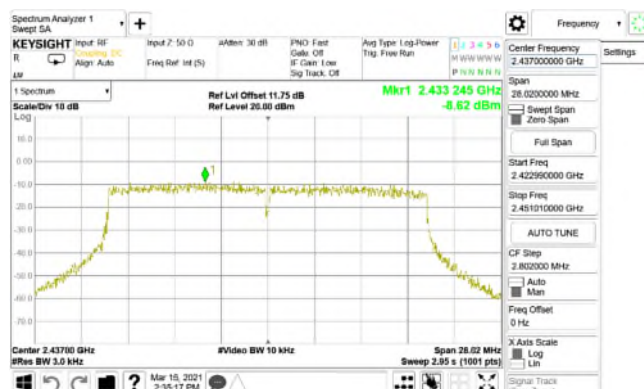
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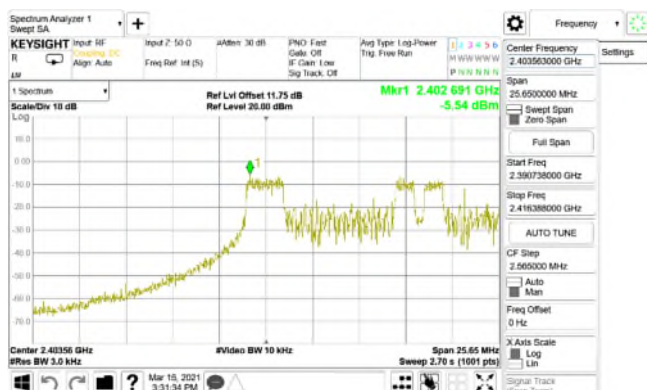
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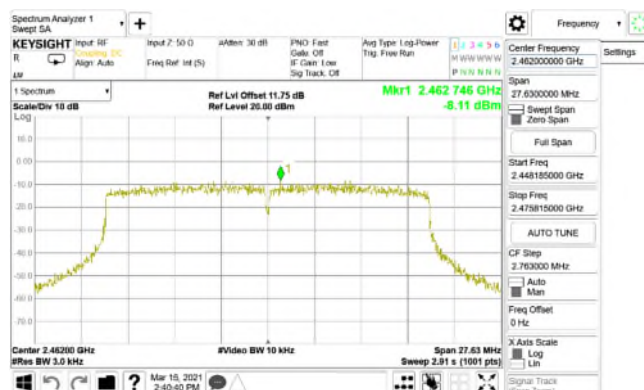
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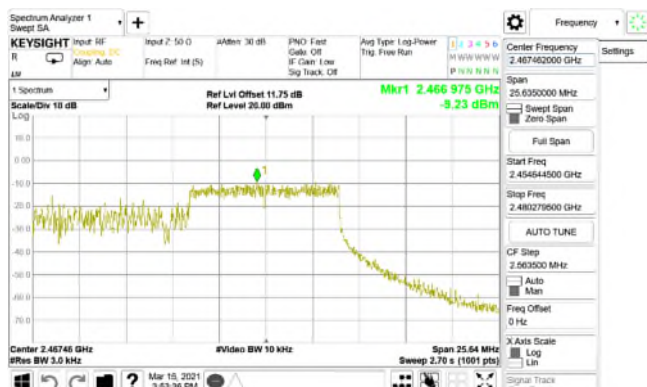


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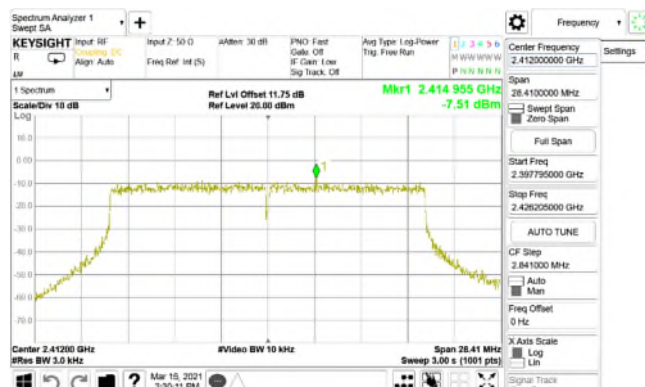
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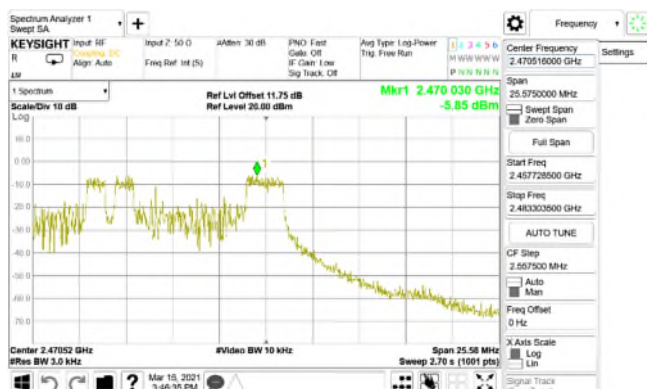
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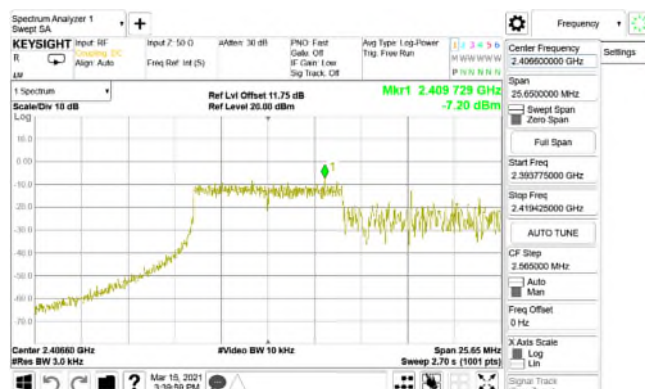
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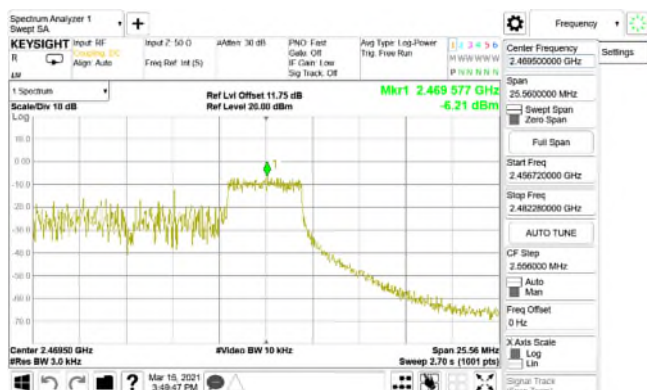
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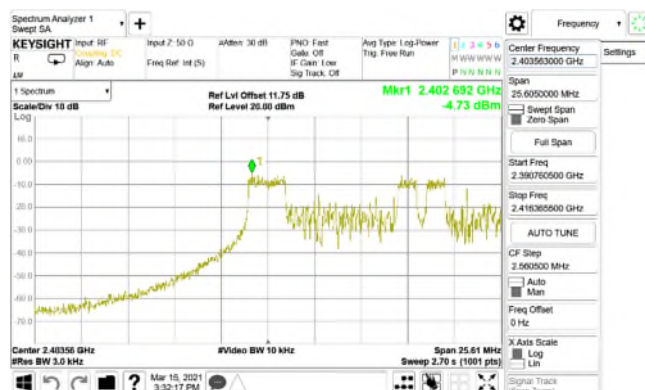
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Power Density_802.11ax_20MHz_Chain0_2462MHz_RU52_40



Power Density_802.11ax_20MHz_Chain1_2412MHz_RU26_0

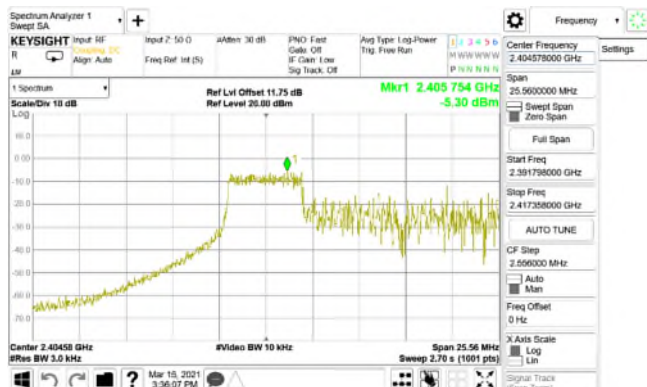


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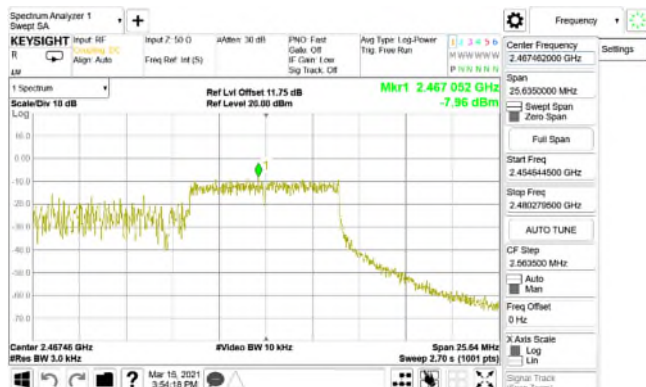
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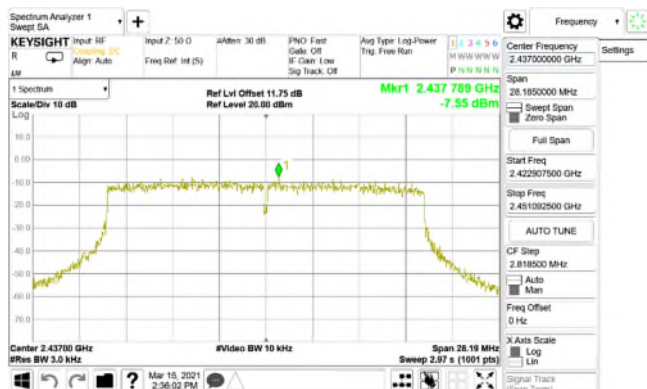
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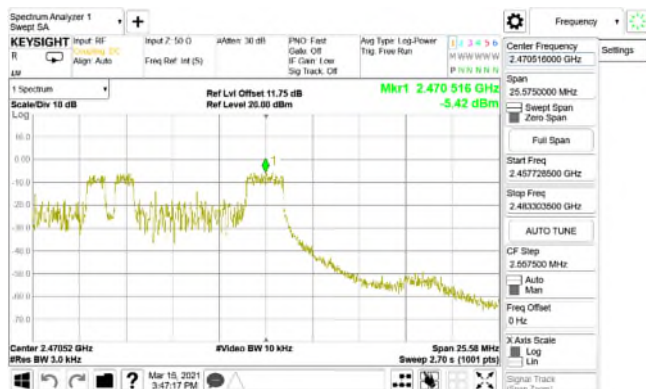
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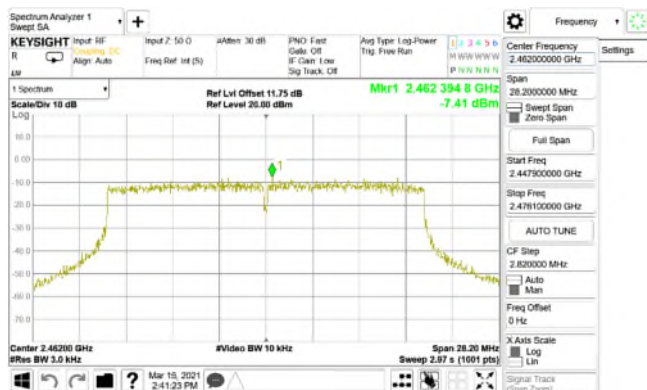
Power Density_802.11ax_20MHz_Chain1_2437MHz



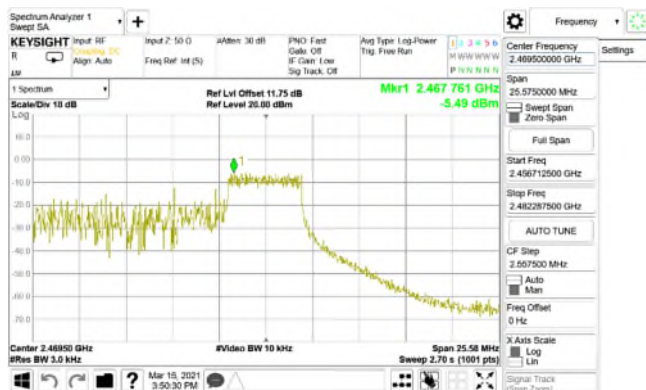
Power Density_802.11ax_20MHz_Chain1_2462MHz_RU26_8



Power Density_802.11ax_20MHz_Chain1_2462MHz



Power Density_802.11ax_20MHz_Chain1_2462MHz_RU52_40

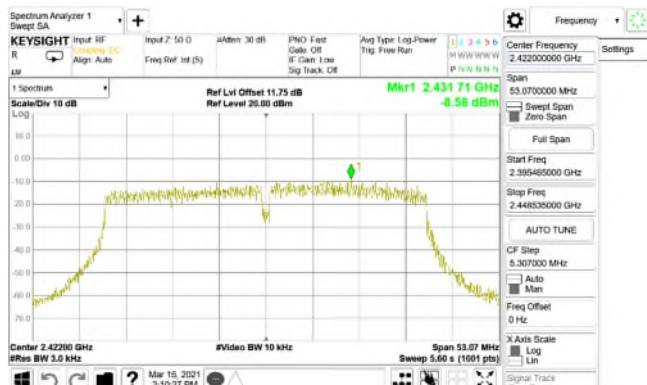


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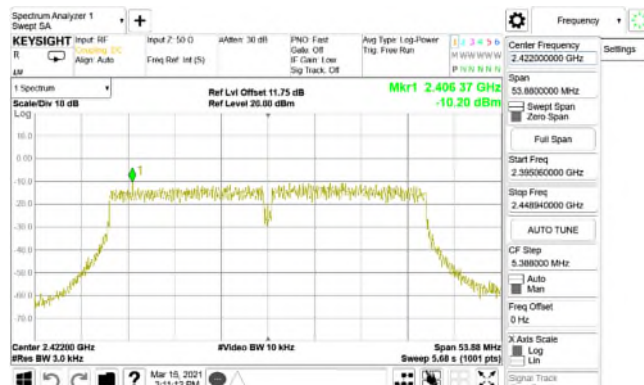
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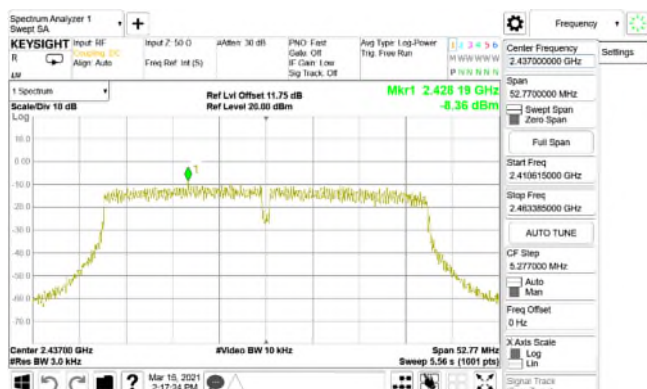
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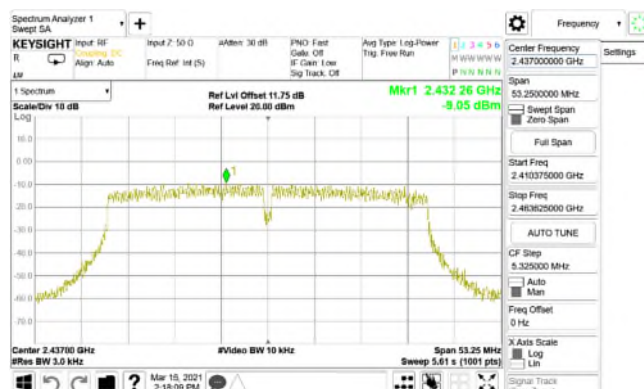
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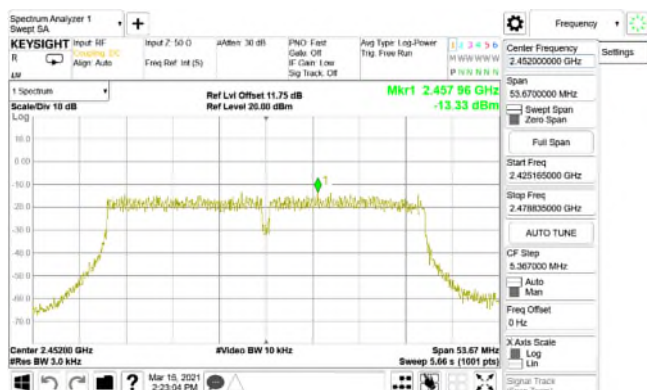
Power Density_802.11n_40MHz_Chain0_2437MHz



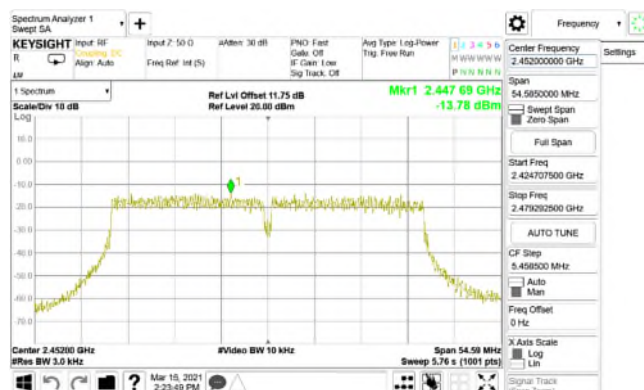
Power Density_802.11n_40MHz_Chain1_2437MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



Power Density_802.11n_40MHz_Chain1_2452MHz

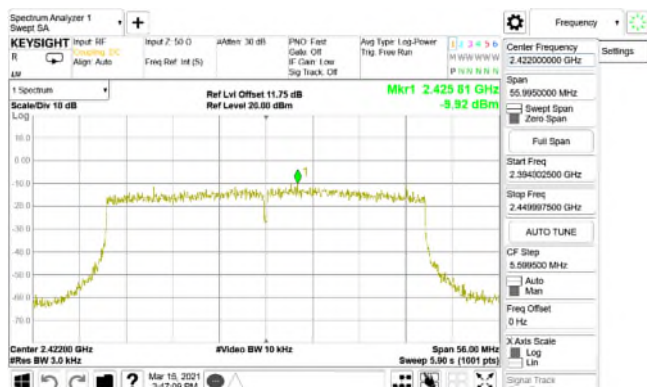


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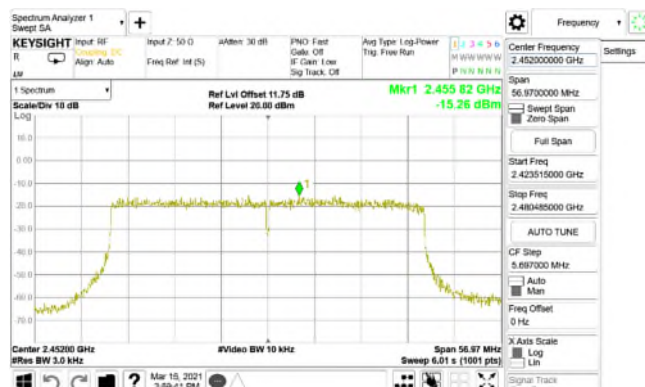
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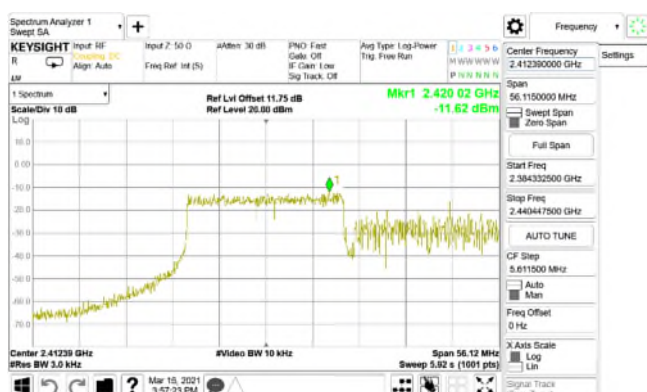
Power Density_802.11ax_40MHz_Chain0_2422MHz



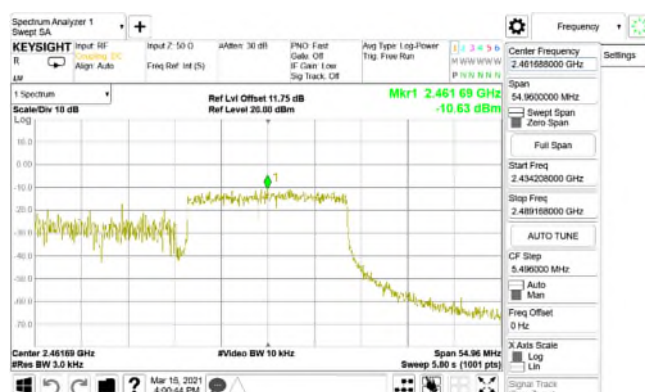
Power Density_802.11ax_40MHz_Chain0_2452MHz



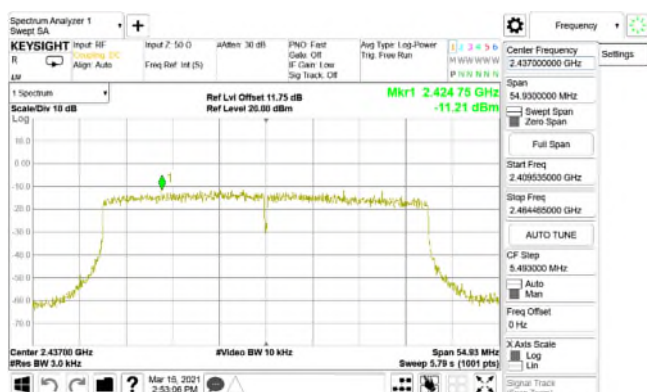
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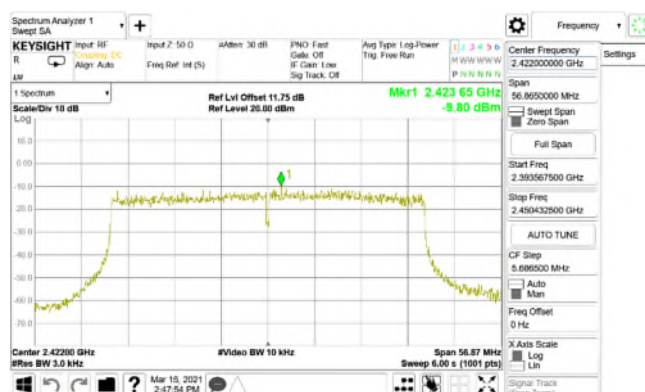
Power Density_802.11ax_40MHz_Chain0_2452MHz_RU242_62



Power Density_802.11ax_40MHz_Chain0_2437MHz



Power Density_802.11ax_40MHz_Chain1_2422MHz

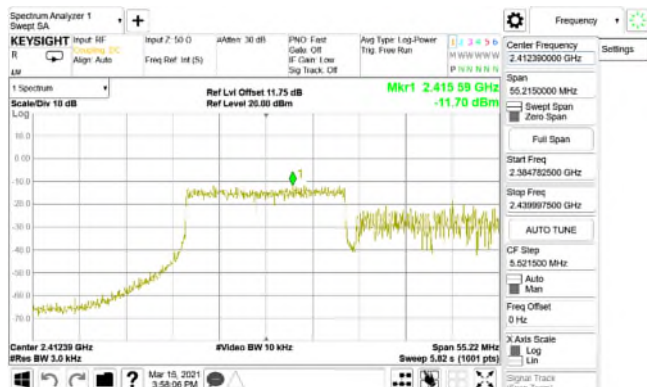


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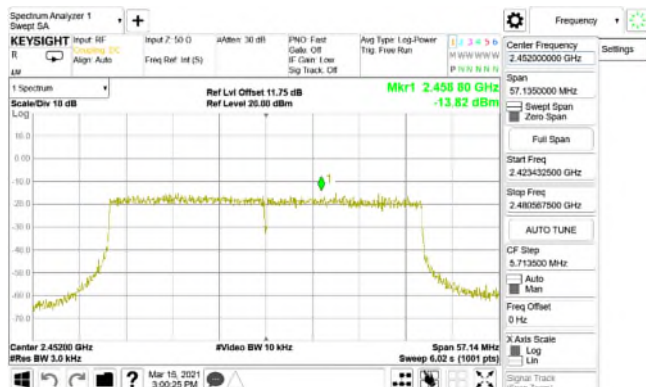
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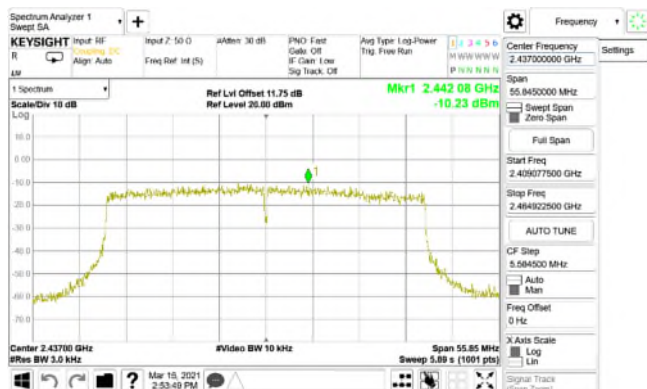
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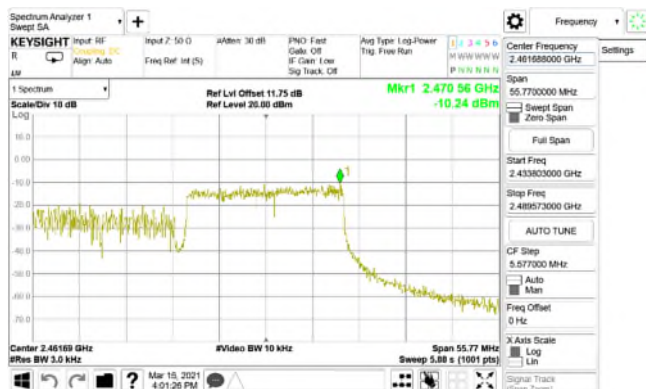
Power Density_802.11ax_40MHz_Chain1_2452MHz



Power Density_802.11ax_40MHz_Chain1_2437MHz



Power Density_802.11ax_40MHz_Chain1_2452MHz_RU242_62



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Beamforming

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.5	-9.49	-6.48	8.00	PASS
2437	-10.52	-9.05	-6.71	8.00	PASS
2462	-9.18	-9.72	-6.43	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-12.39	-12.79	-9.58	8.00	PASS
2437	-11.18	-12.05	-8.58	8.00	PASS
2452	-15.54	-16.6	-13.03	8.00	PASS

POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-11.67	-11.42	-8.53	8.00	PASS
	26/0	-8.9	-6.94	-4.80	8.00	PASS
	52/37	-8.84	-7.06	-4.85	8.00	PASS
	106/53	-12.87	-11.78	-9.28	8.00	PASS
2437	full	-11.44	-10.59	-7.98	8.00	PASS
2462	full	-11.01	-10.54	-7.76	8.00	PASS
	26/8	-7.97	-8.78	-5.35	8.00	PASS
	52/40	-9.91	-8.11	-5.91	8.00	PASS
	106/54	-11.96	-11.58	-8.76	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-14.22	-14.11	-11.15	8.00	PASS
	242/61	-14.58	-14.93	-11.74	8.00	PASS
2437	full	-13.97	-13.05	-10.48	8.00	PASS
2452	full	-18.81	-16.91	-14.75	8.00	PASS
	242/62	-13.52	-12.67	-10.06	8.00	PASS

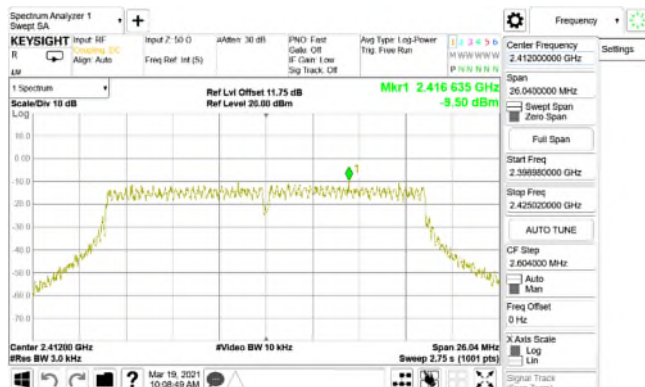
*Refer to next page for plots

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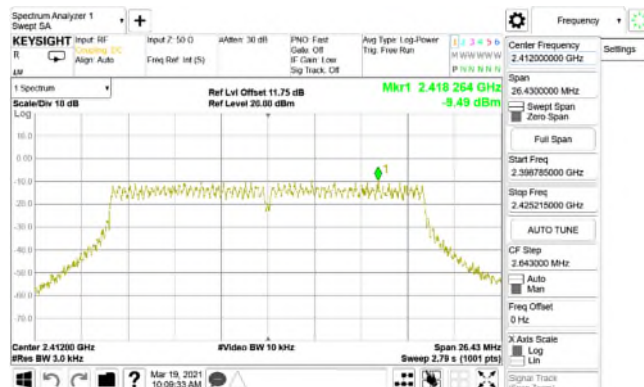
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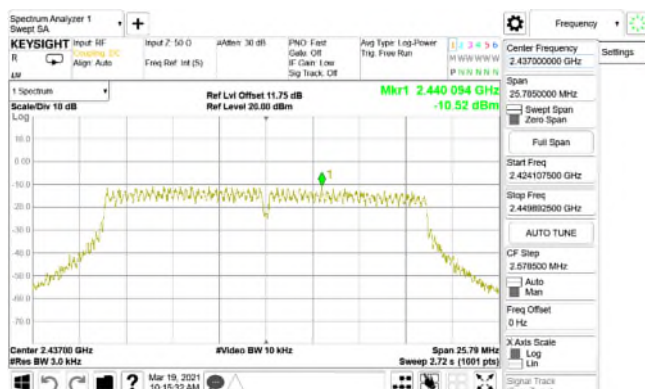
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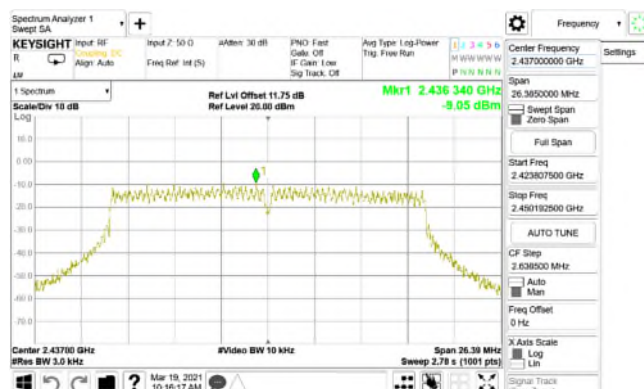
Power Density_802.11n_20MHz_Chain1_2412MHz



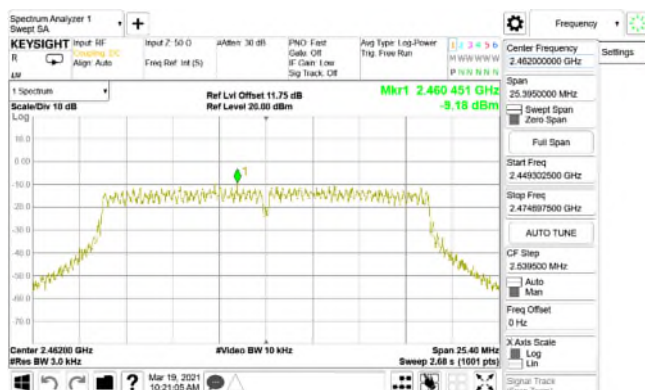
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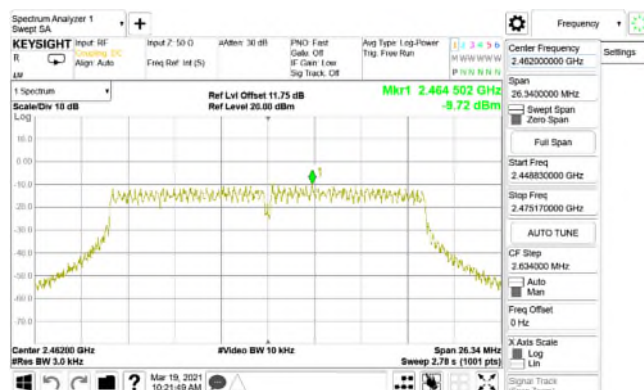
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Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain1_2462MHz

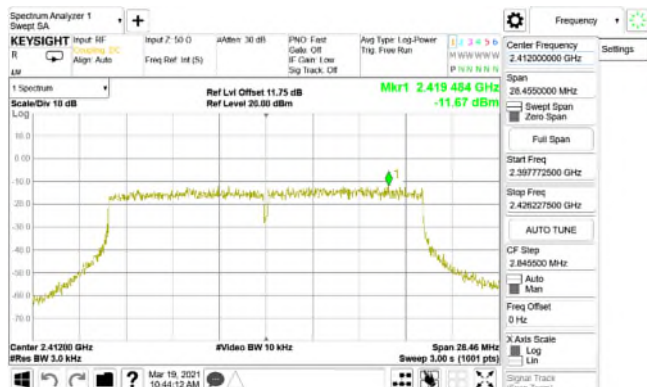


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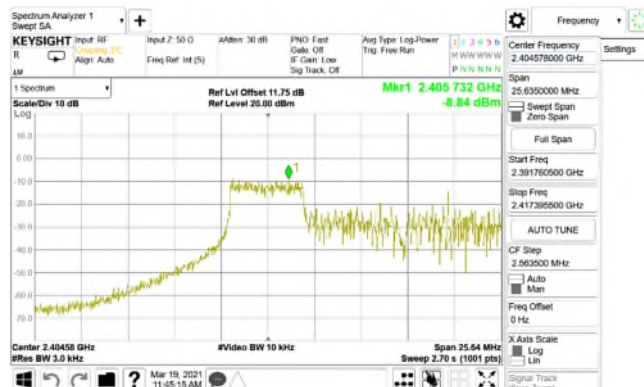
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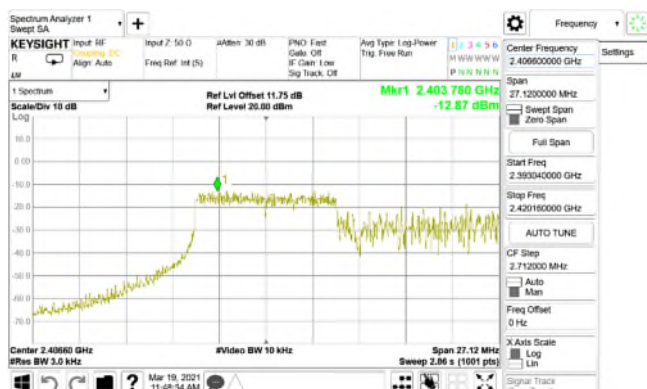
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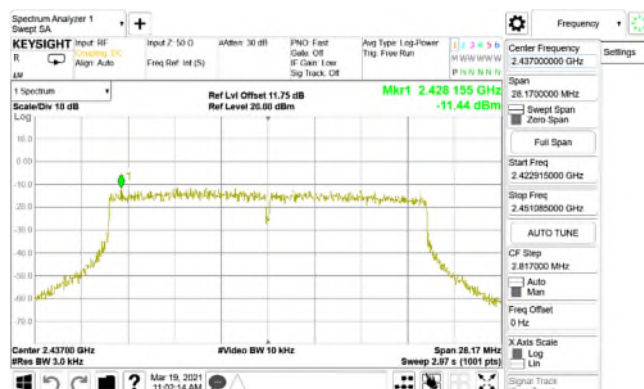
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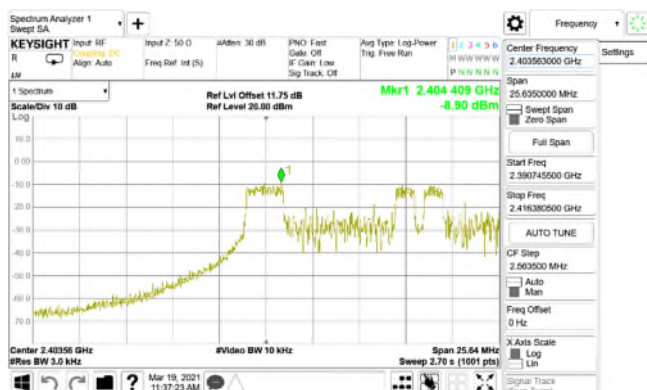
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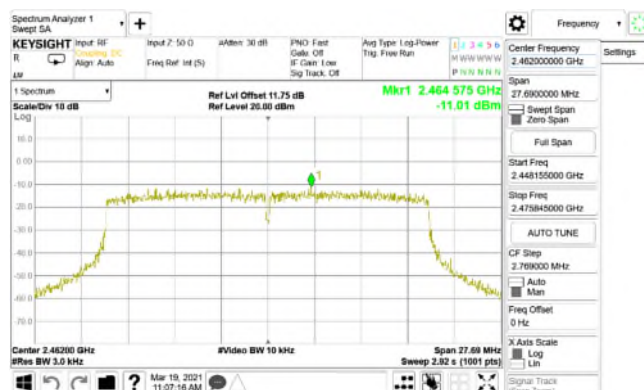
Power Density_802.11ax_20MHz_Chain0_2437MHz



Power Density_802.11ax_20MHz_Chain0_2412MHz_RU26_0



Power Density_802.11ax_20MHz_Chain0_2462MHz



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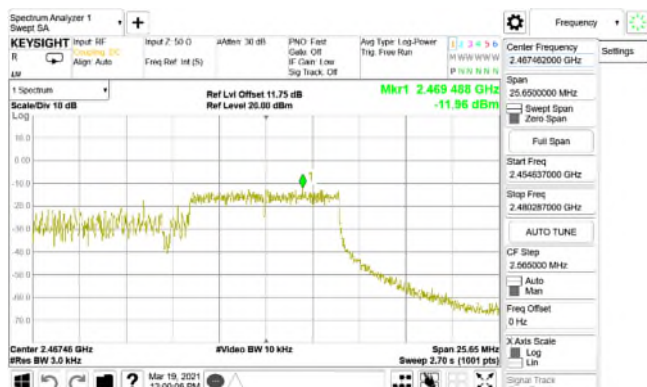
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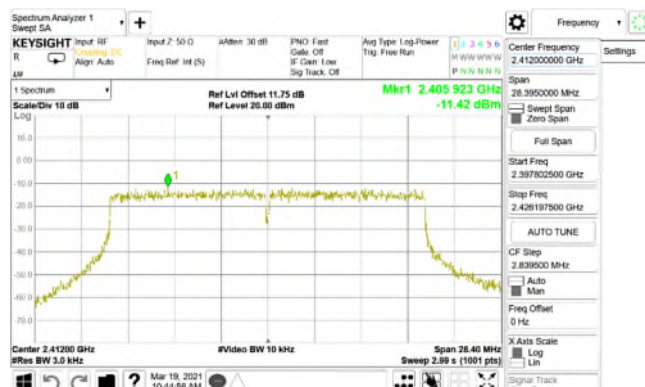
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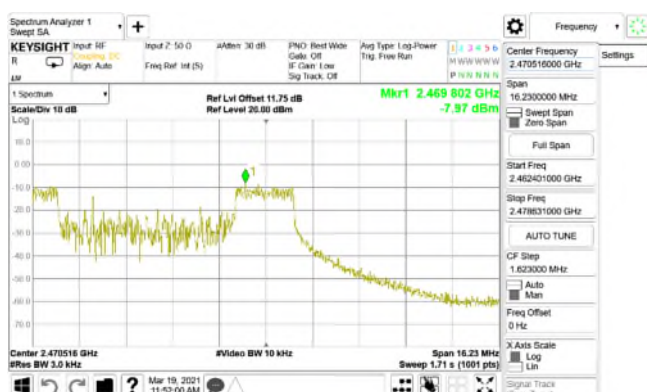
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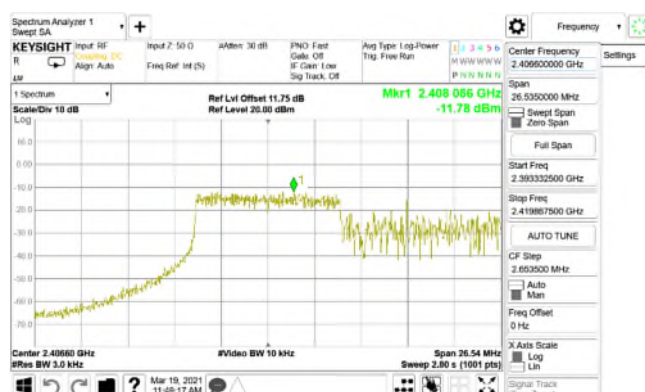
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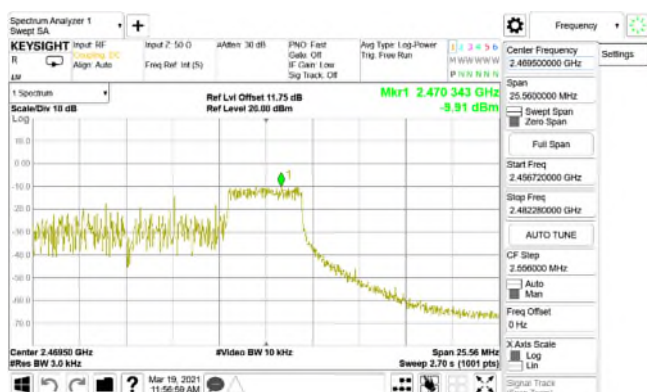
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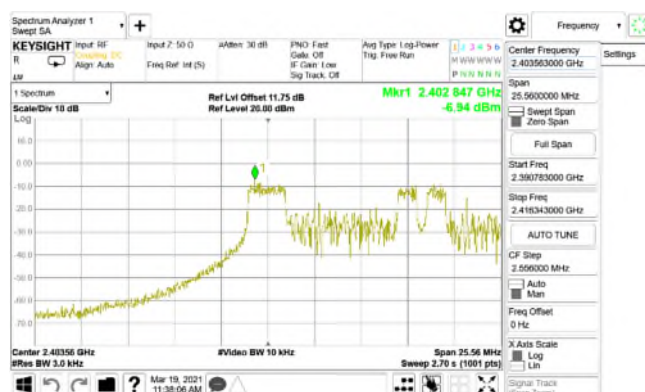
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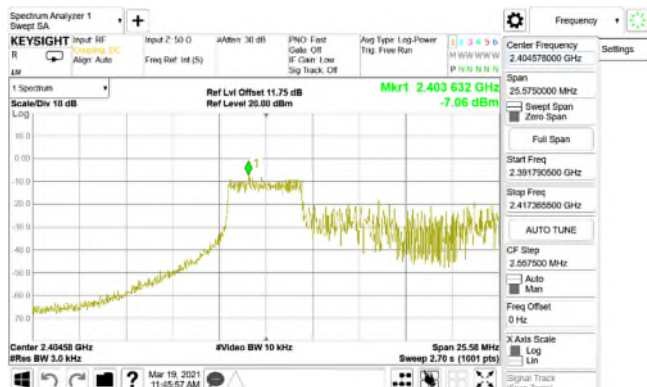


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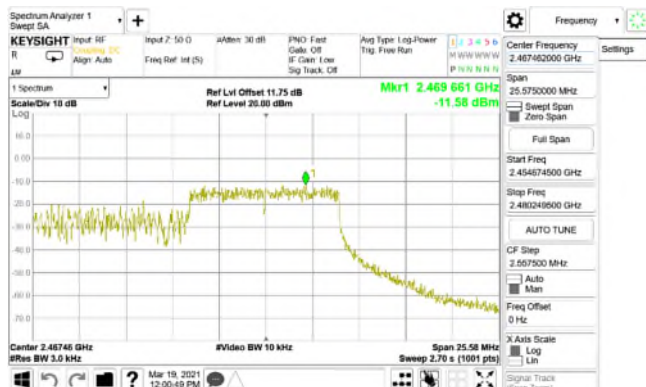
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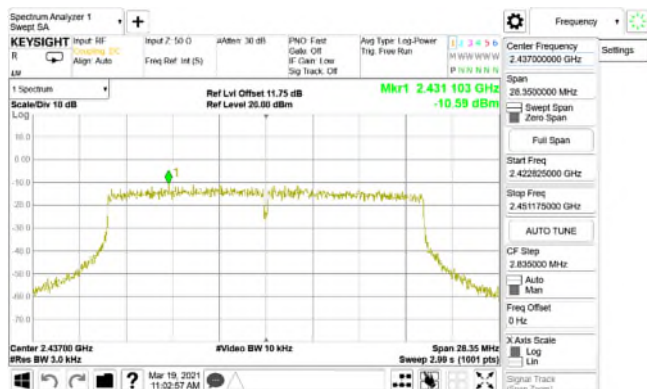
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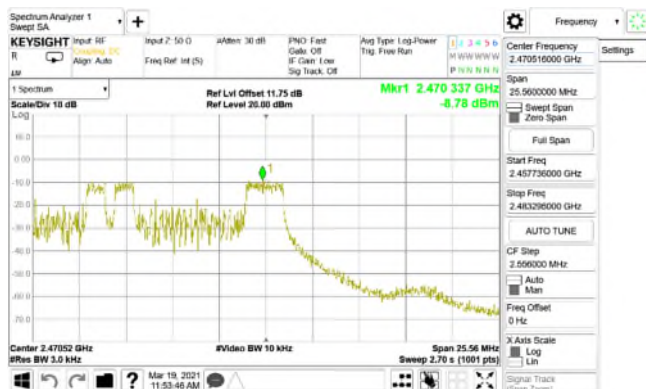
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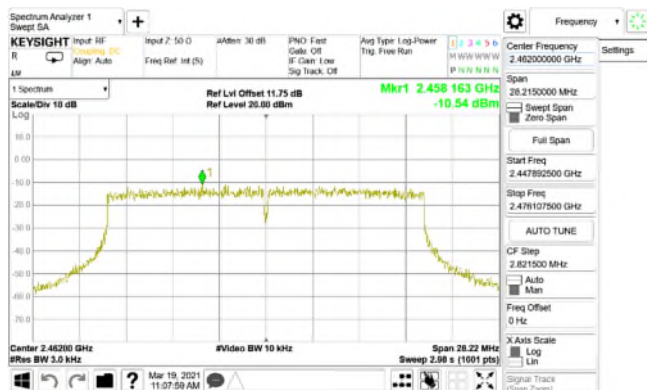
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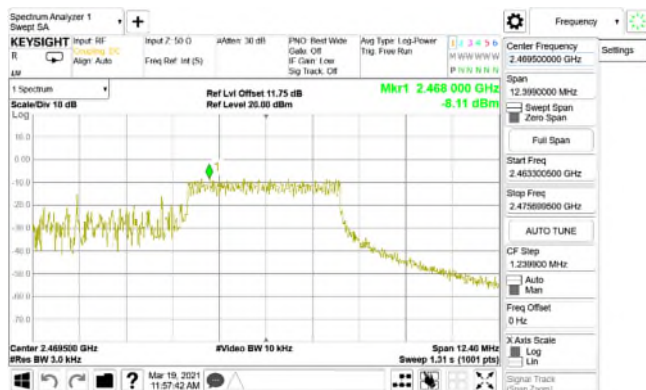
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Power Density_802.11ax_20MHz_Chain1_2462MHz



Power Density_802.11ax_20MHz_Chain1_2462MHz_RU52_40

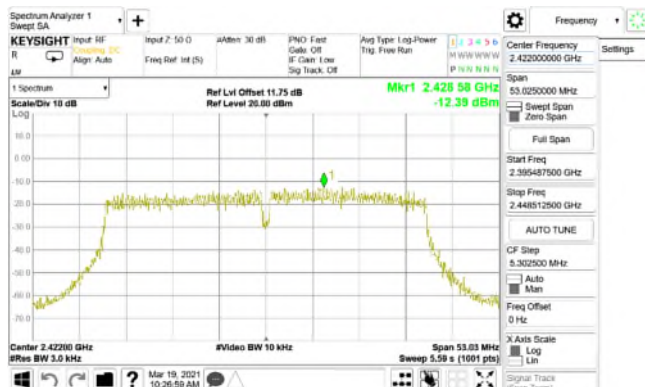


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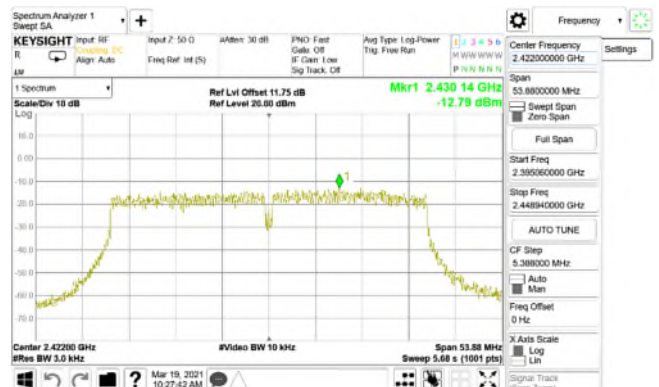
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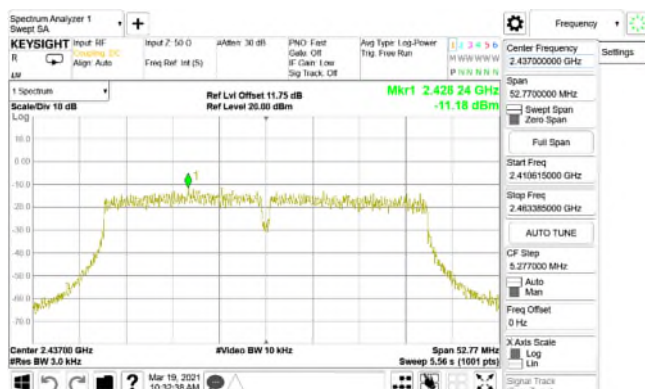
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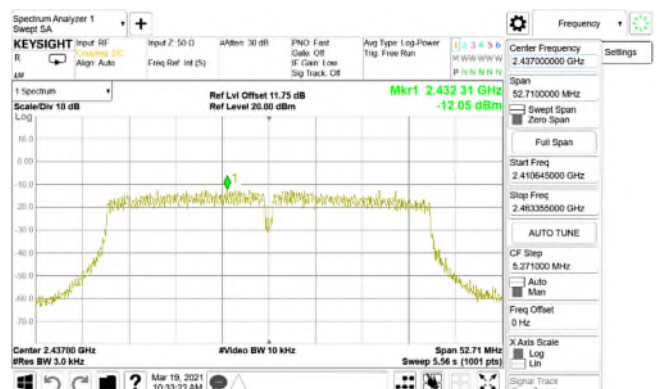
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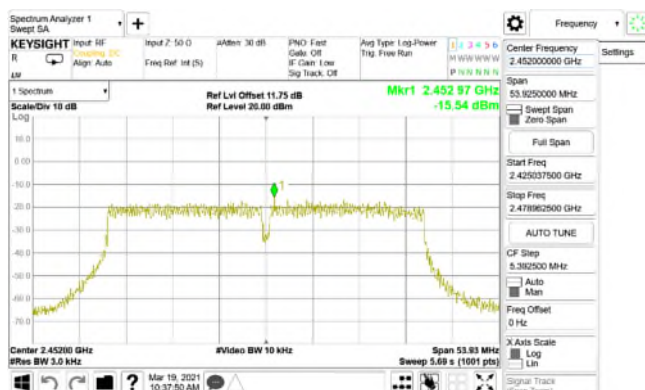
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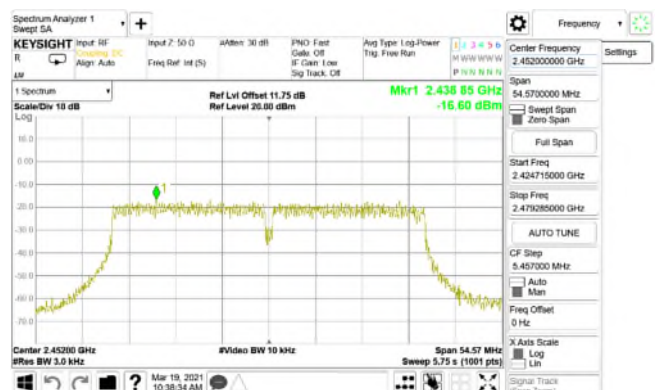
Power Density_802.11n_40MHz_Chain1_2437MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



Power Density_802.11n_40MHz_Chain1_2452MHz

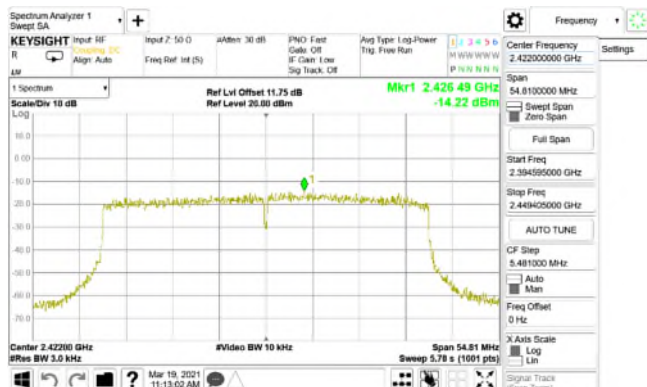


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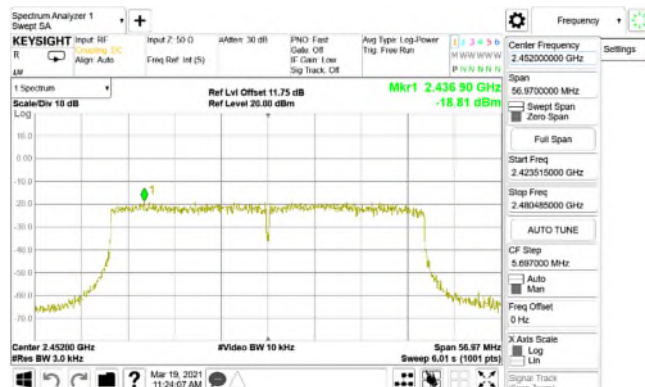
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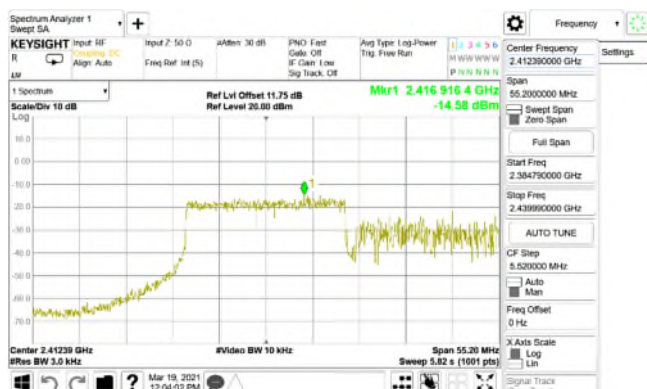
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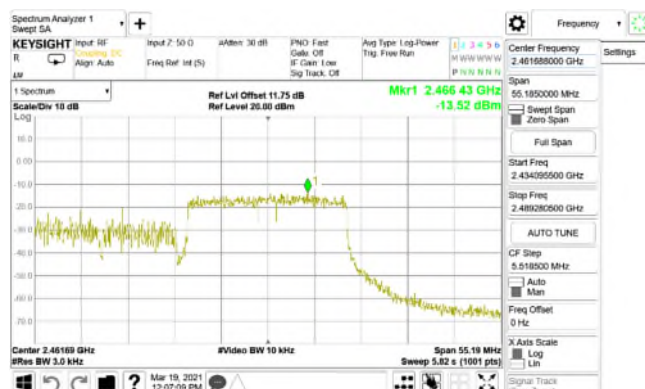
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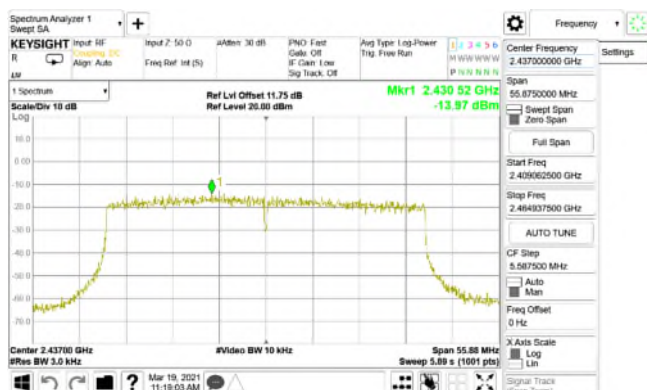
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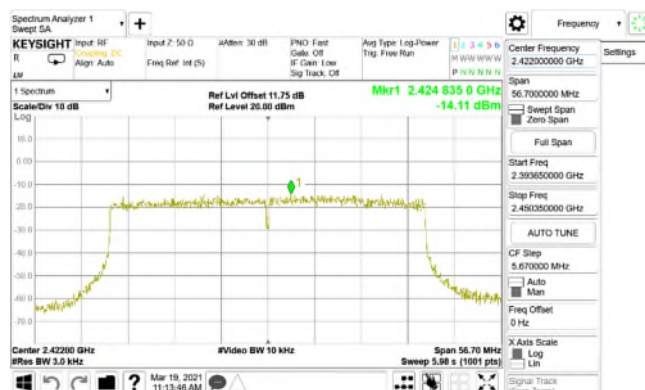
Power Density_802.11ax_40MHz_Chain0_2452MHz_RU242_62



Power Density_802.11ax_40MHz_Chain0_2437MHz



Power Density_802.11ax_40MHz_Chain1_2422MHz

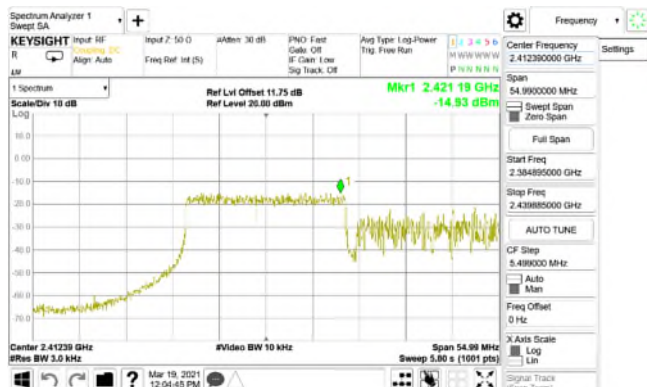


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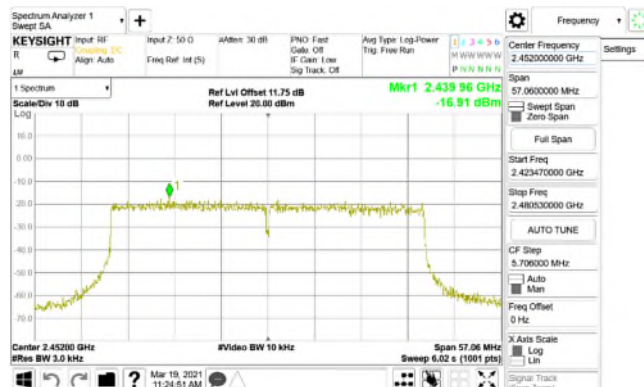
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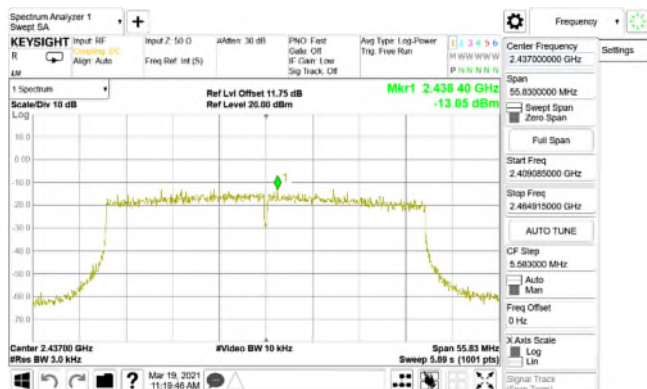
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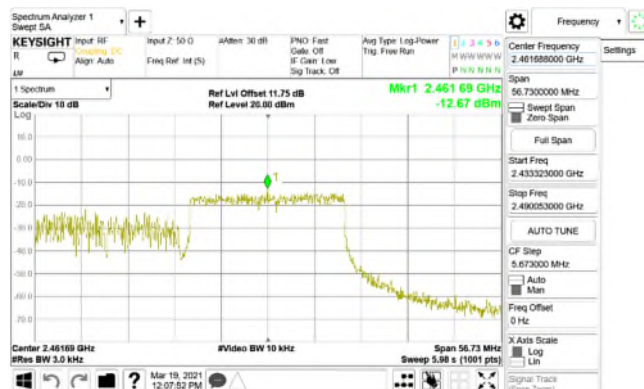
Power Density_802.11ax_40MHz_Chain1_2452MHz



Power Density_802.11ax_40MHz_Chain1_2437MHz



Power Density_802.11ax_40MHz_Chain1_2452MHz_RU242_62



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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