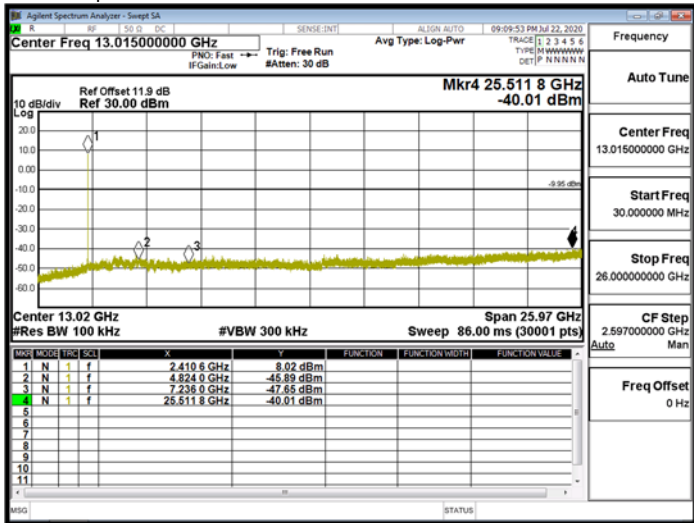
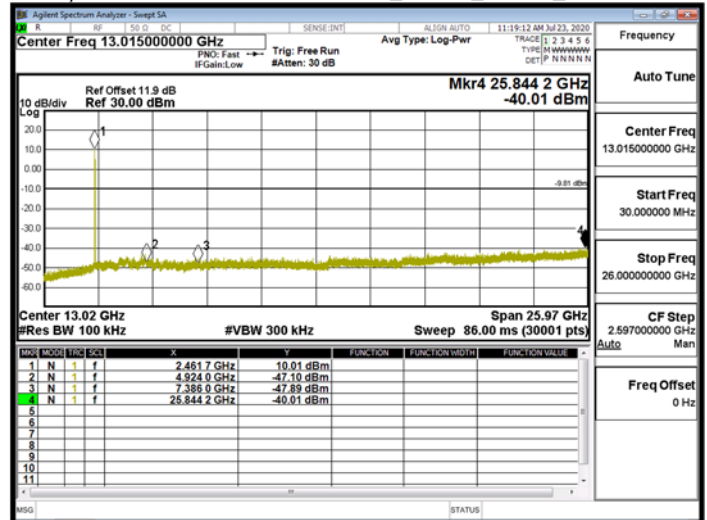


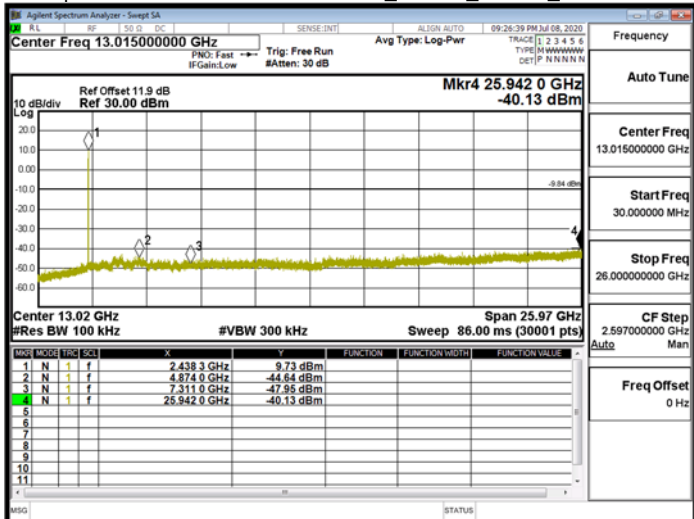
Ch1 Spurious Emission\WLAN\802.11b_20MHz_Chain1_2412MHz



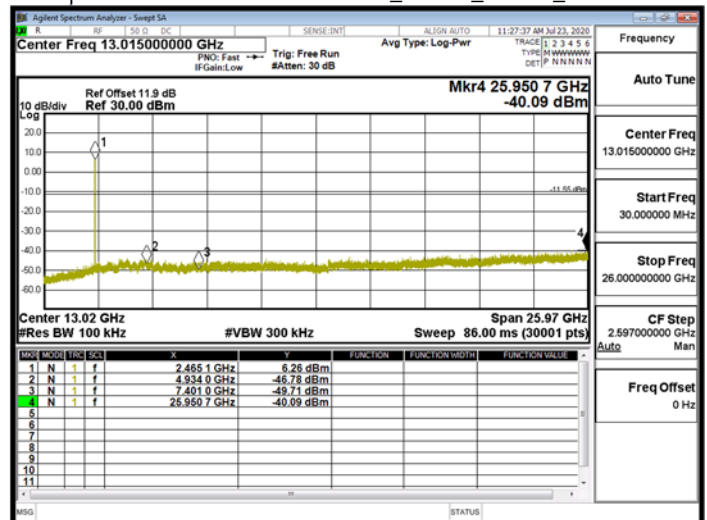
Spurious Emission\WLAN\802.11b_20MHz_Chain1_2462MHz



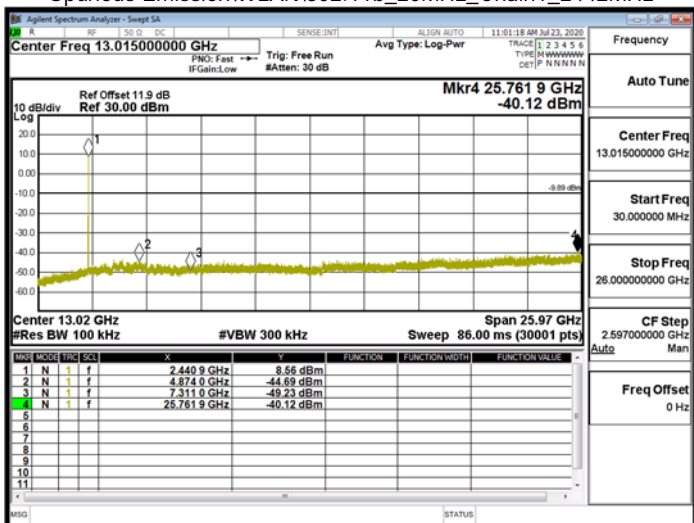
Spurious Emission\WLAN\802.11b_20MHz_Chain1_2437MHz



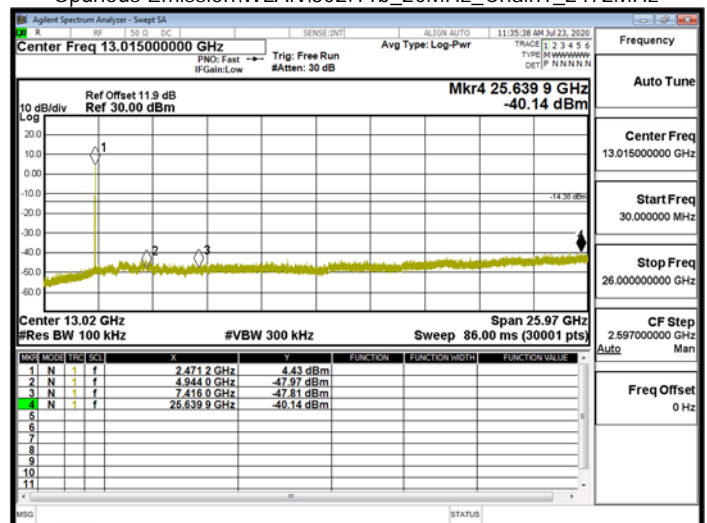
Spurious Emission\WLAN\802.11b_20MHz_Chain1_2467MHz



Spurious Emission\WLAN\802.11b_20MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11b_20MHz_Chain1_2472MHz

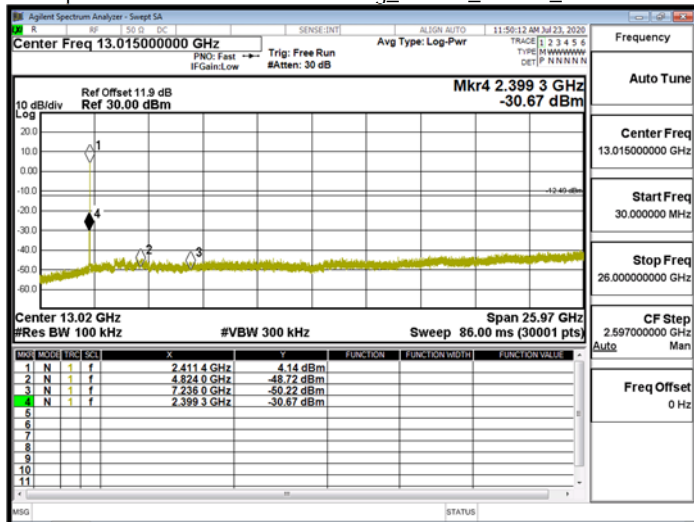


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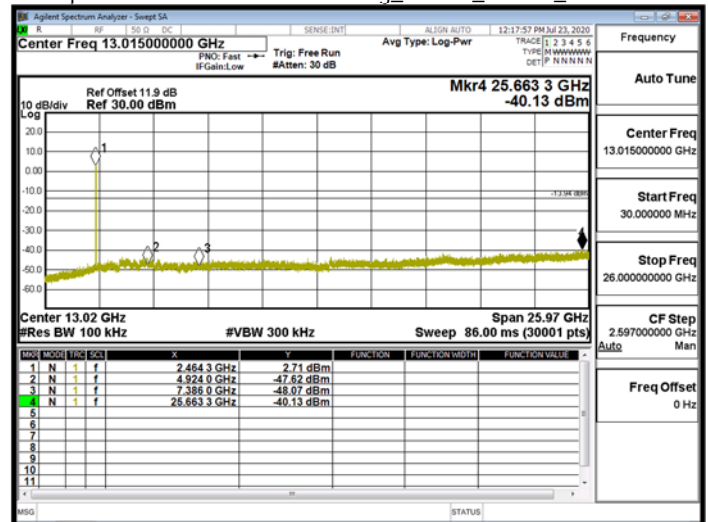
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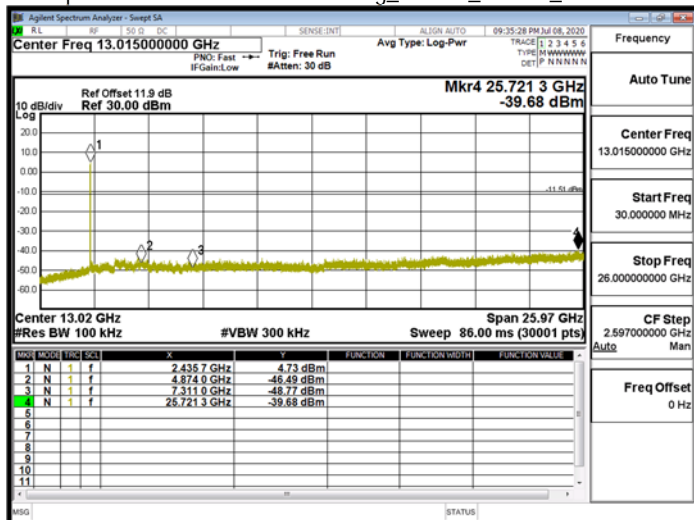
Spurious Emission\WLAN\802.11g_20MHz_Chain1_2412MHz



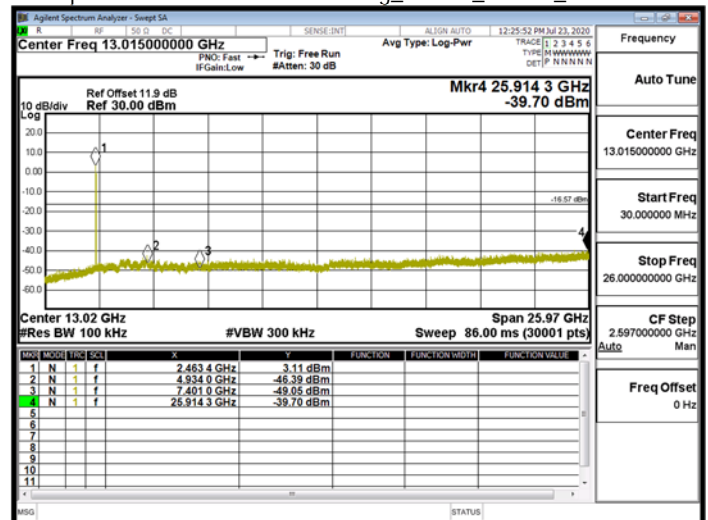
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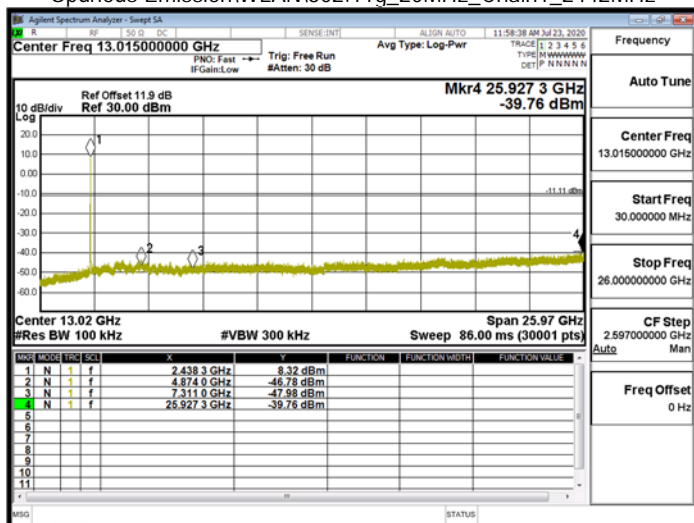
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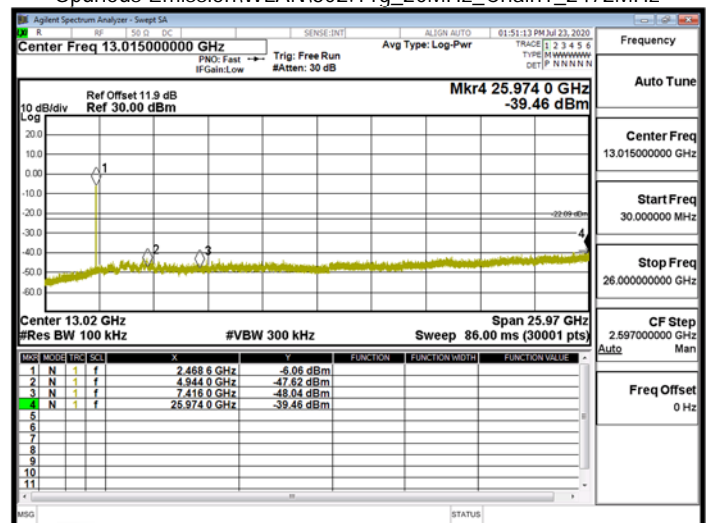
Spurious Emission\WLAN\802.11g_20MHz_Chain1_2467MHz



Spurious Emission\WLAN\802.11g_20MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11g_20MHz_Chain1_2472MHz

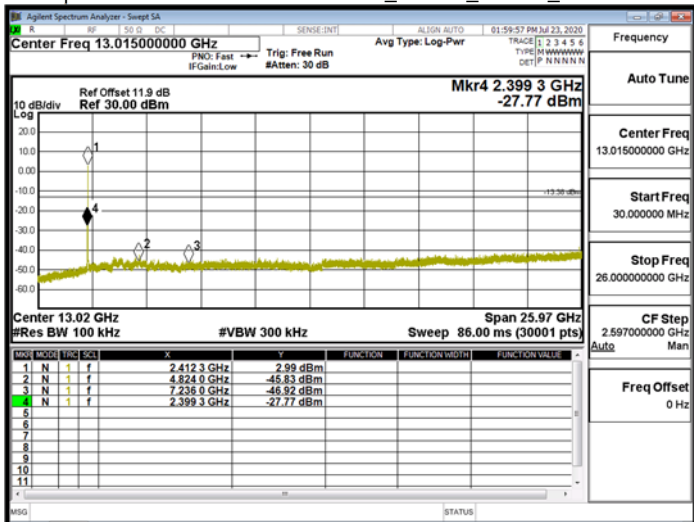


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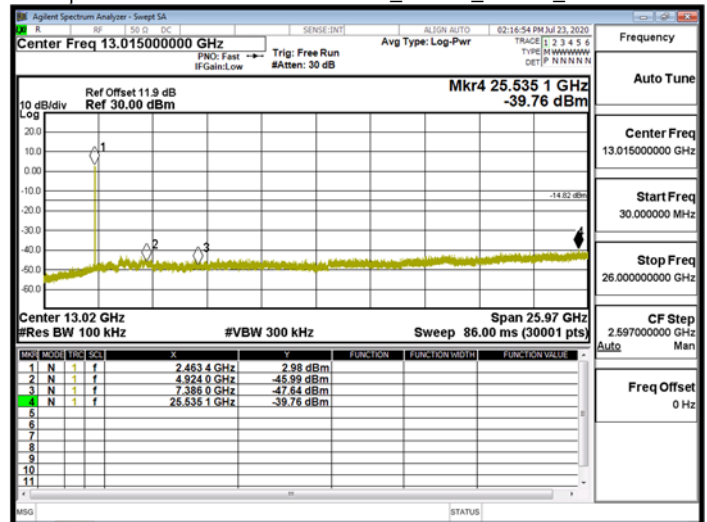
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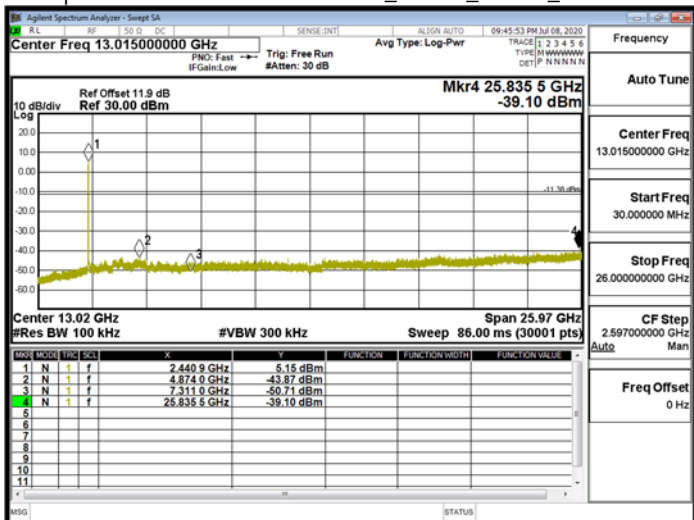
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2412MHz



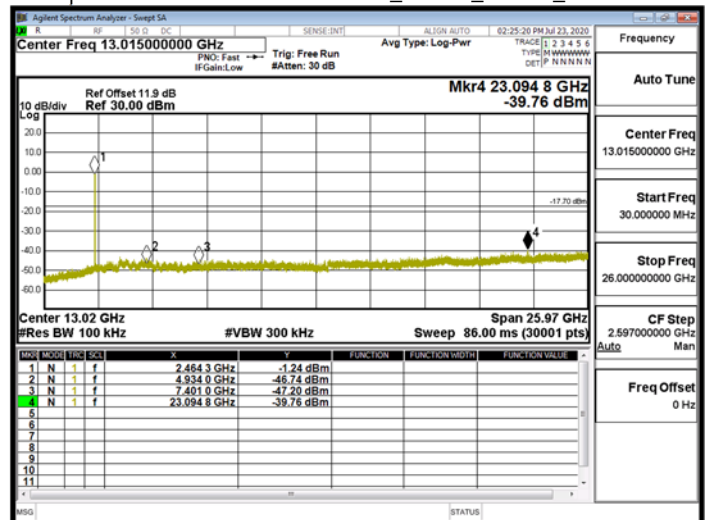
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2462MHz



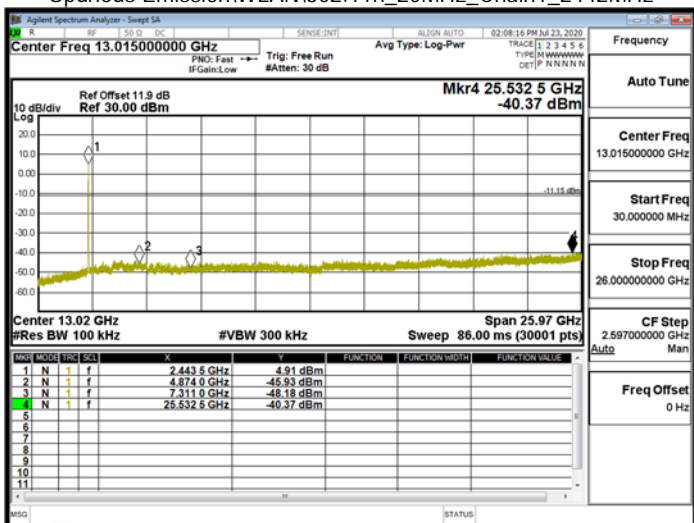
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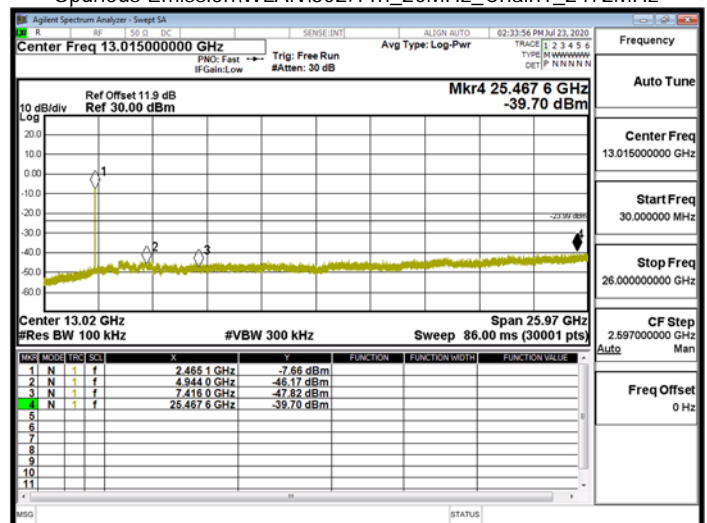
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2467MHz



Spurious Emission\WLAN\802.11n_20MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11n_20MHz_Chain1_2472MHz

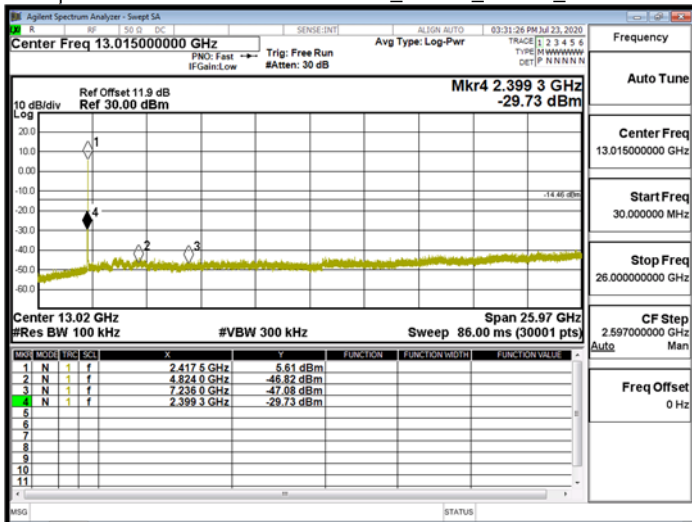


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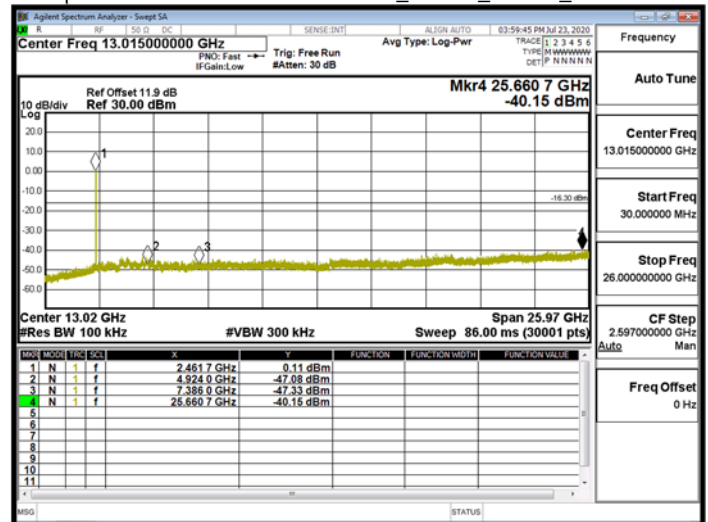
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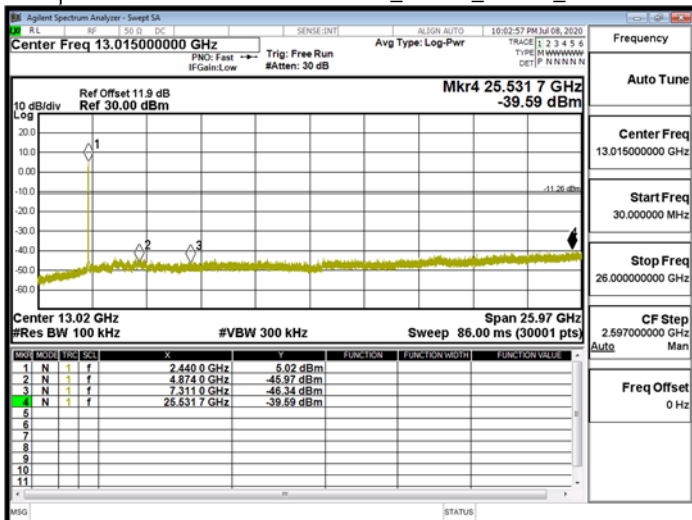
Spurious Emission\WLAN\802.11ax_20MHz_Chain1_2412MHz



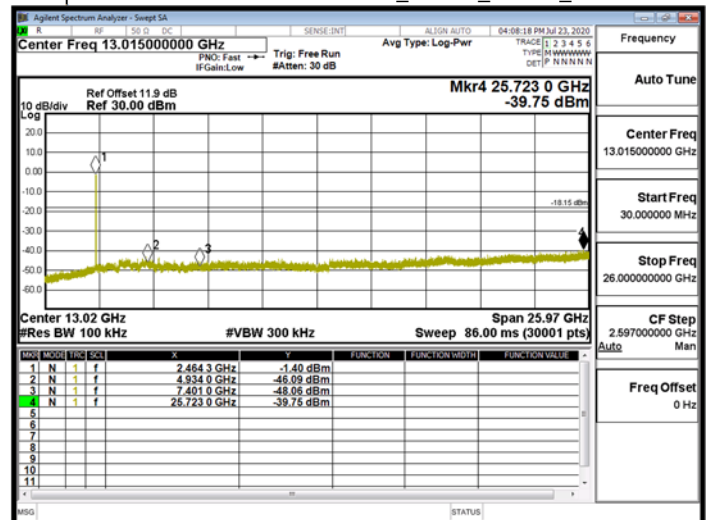
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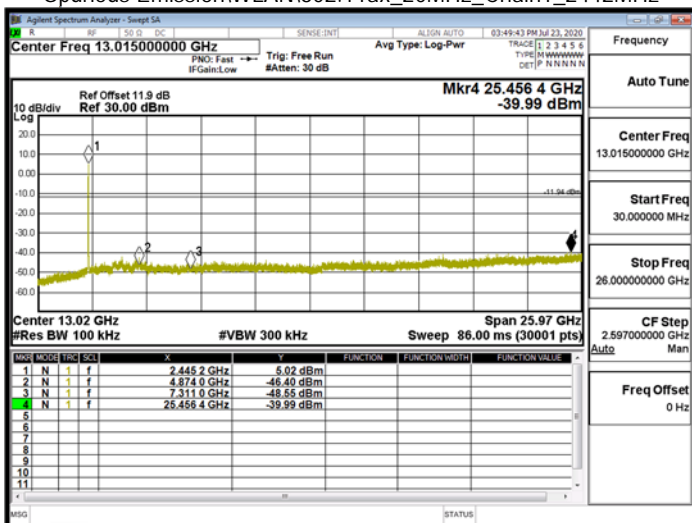
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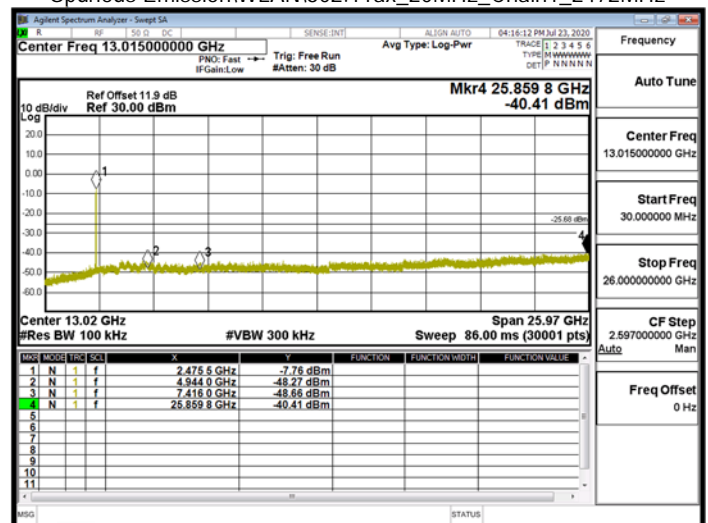
Spurious Emission\WLAN\802.11ax_20MHz_Chain1_2467MHz



Spurious Emission\WLAN\802.11ax_20MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11ax_20MHz_Chain1_2472MHz

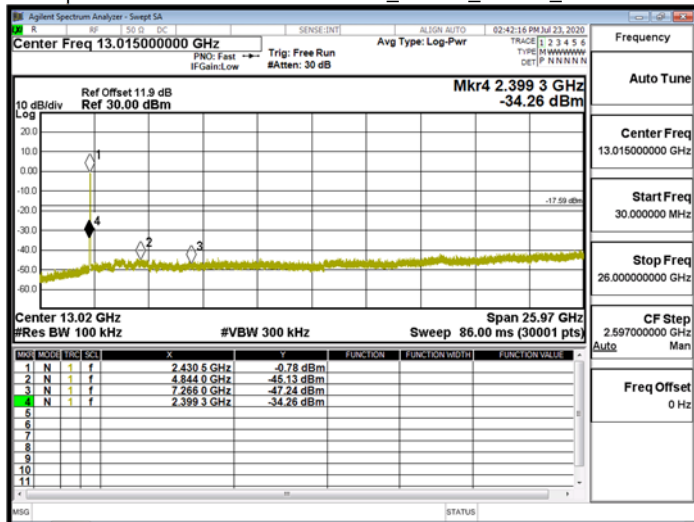


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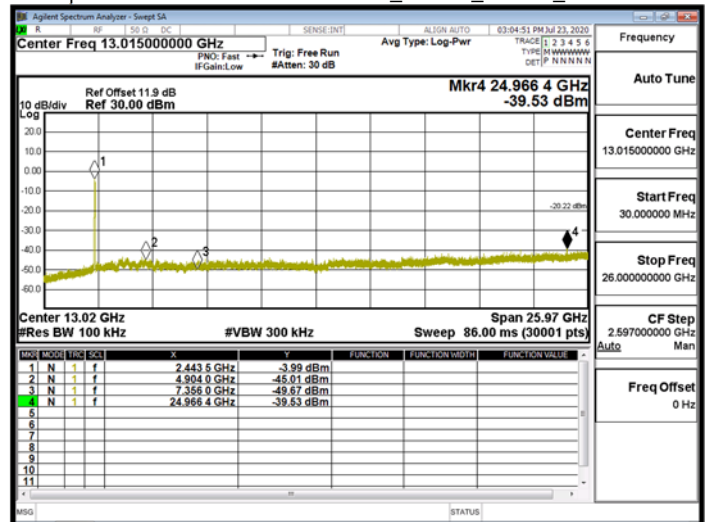
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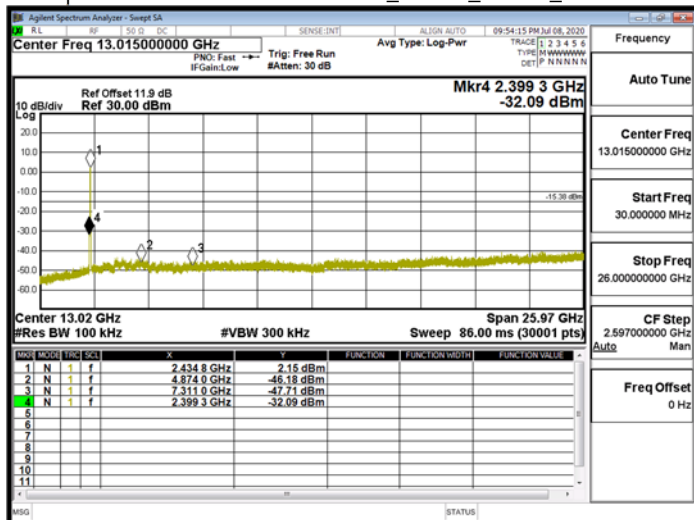
Spurious Emission\WLAN\802.11n_40MHz_Chain1_2422MHz



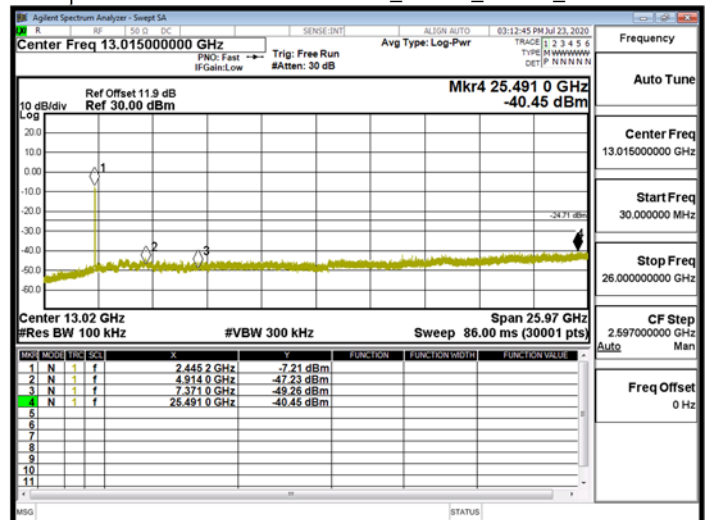
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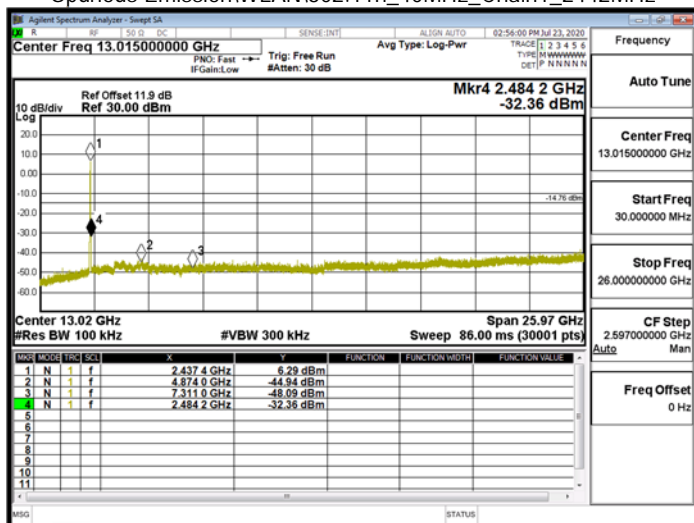
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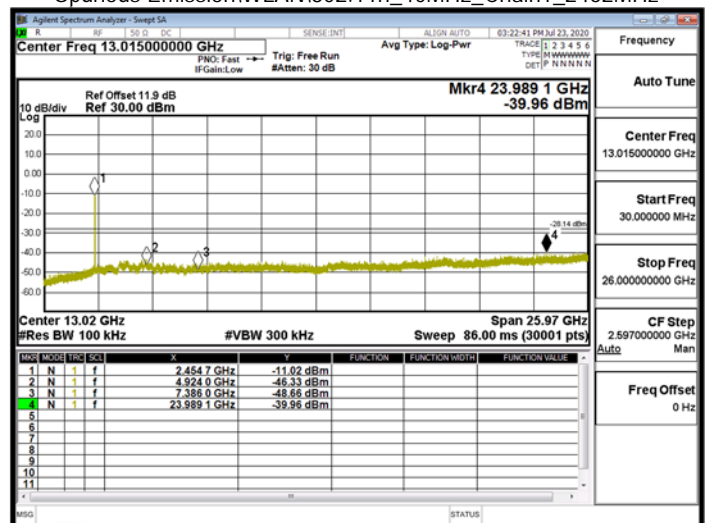
Spurious Emission\WLAN\802.11n_40MHz_Chain1_2457MHz



Spurious Emission\WLAN\802.11n_40MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11n_40MHz_Chain1_2462MHz

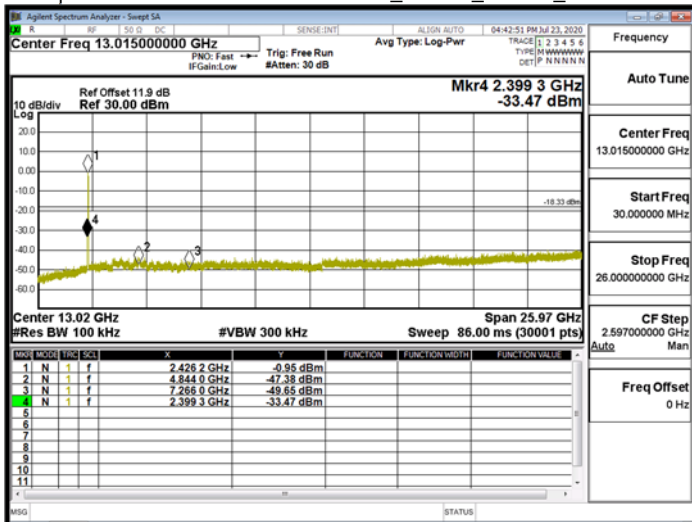


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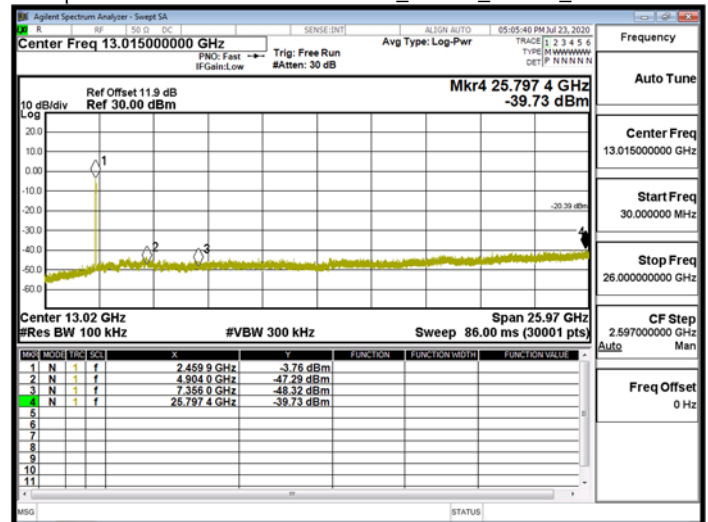
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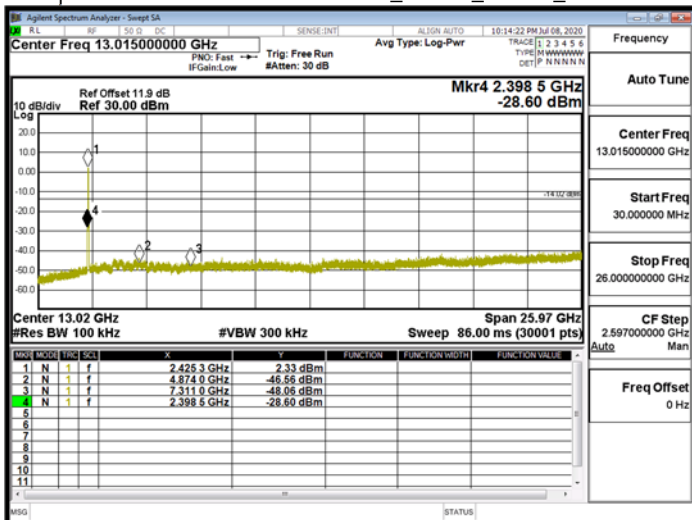
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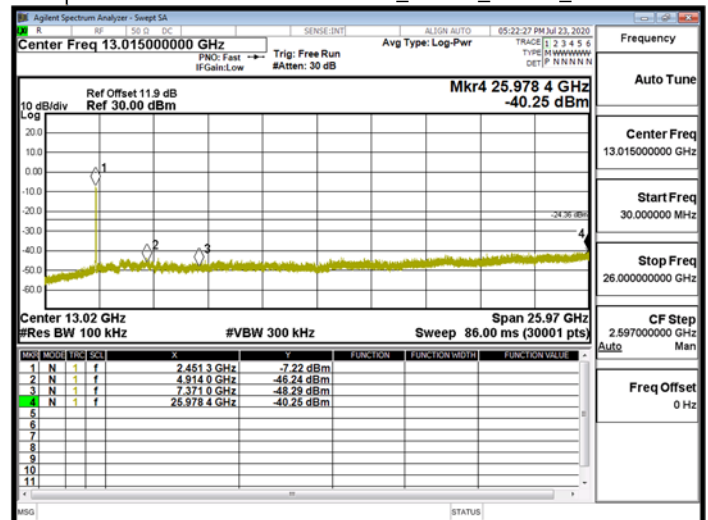
Spurious Emission\WLAN\802.11ax_40MHz_Chain1_2452MHz



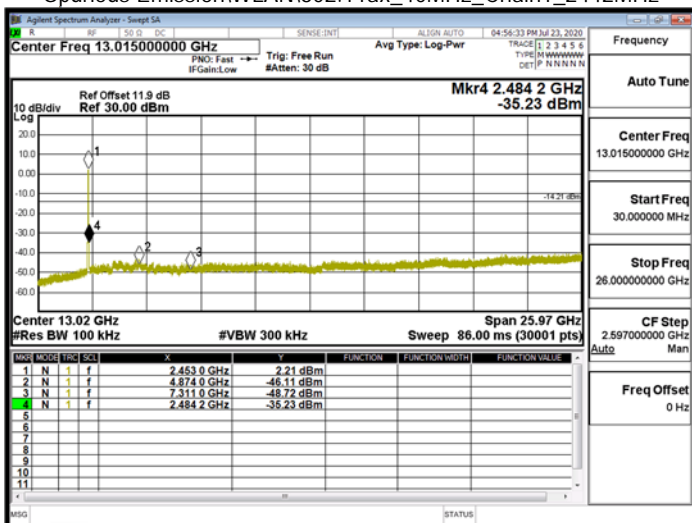
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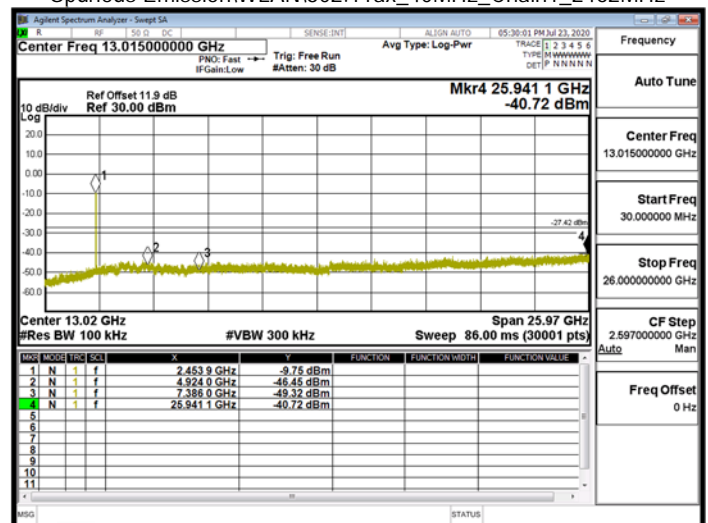
Spurious Emission\WLAN\802.11ax_40MHz_Chain1_2457MHz



Spurious Emission\WLAN\802.11ax_40MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11ax_40MHz_Chain1_2462MHz

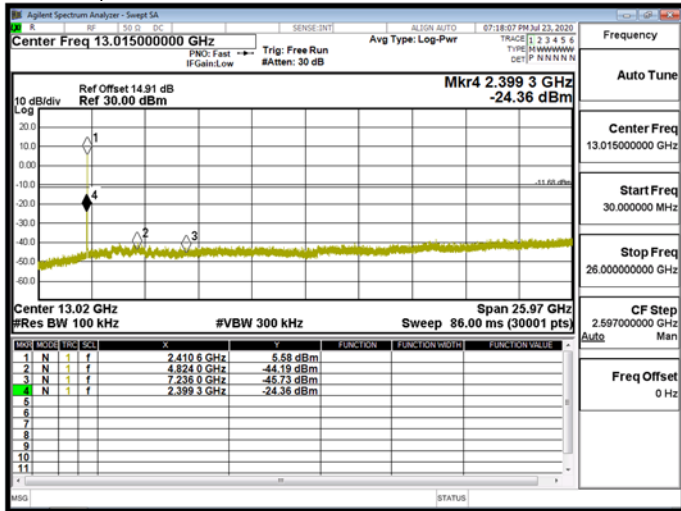


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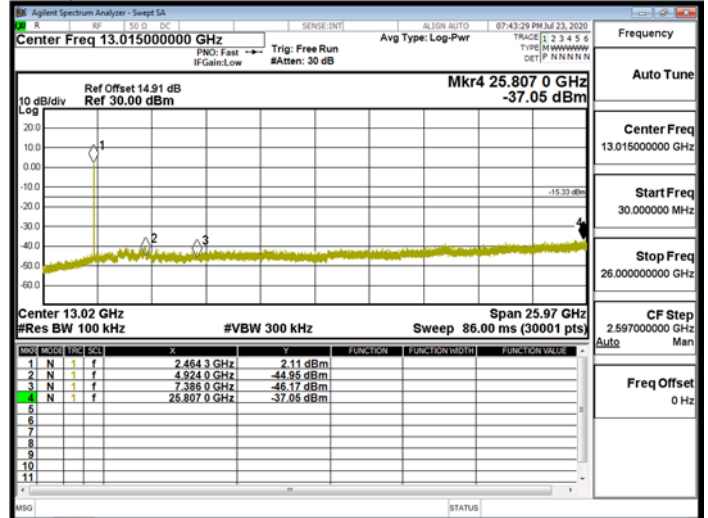
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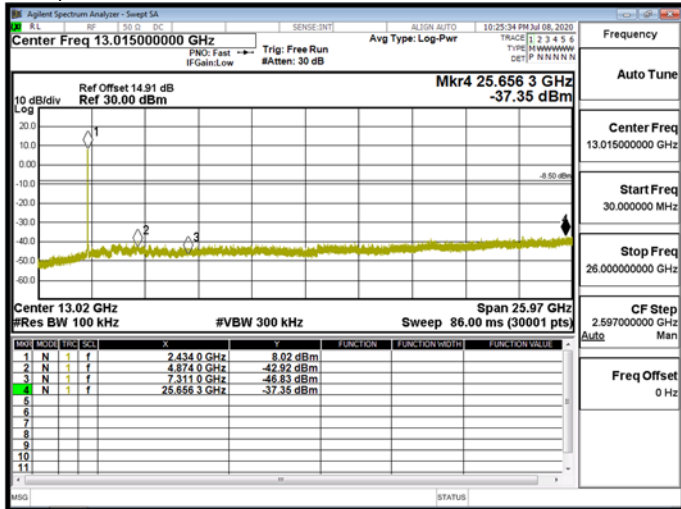
MIMO Spurious Emission\WLAN\802.11n_20MHz_Chain1_2412MHz



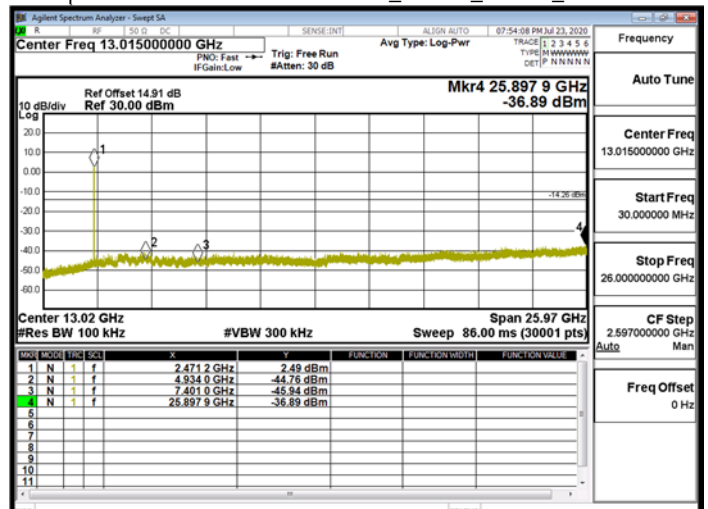
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2462MHz



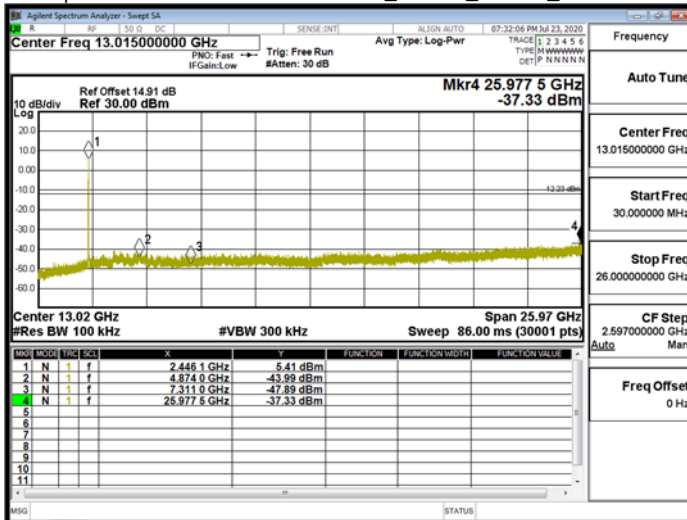
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2437MHz



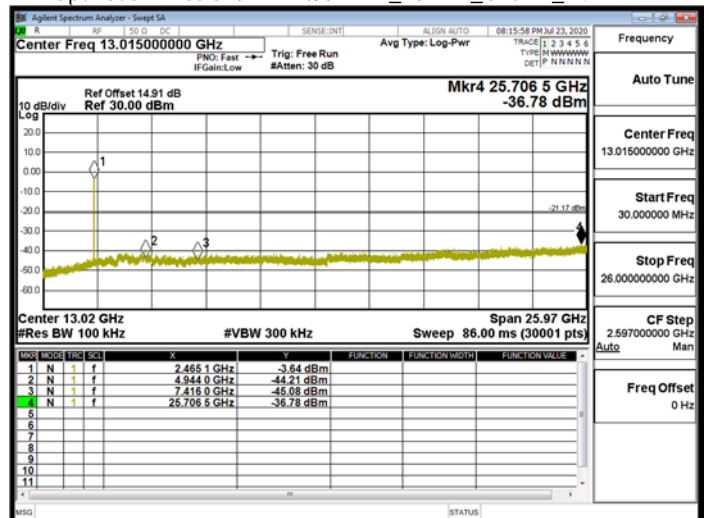
Spurious Emission\WLAN\802.11n_20MHz_Chain1_2467MHz



Spurious Emission\WLAN\802.11n_20MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11n_20MHz_Chain1_2472MHz

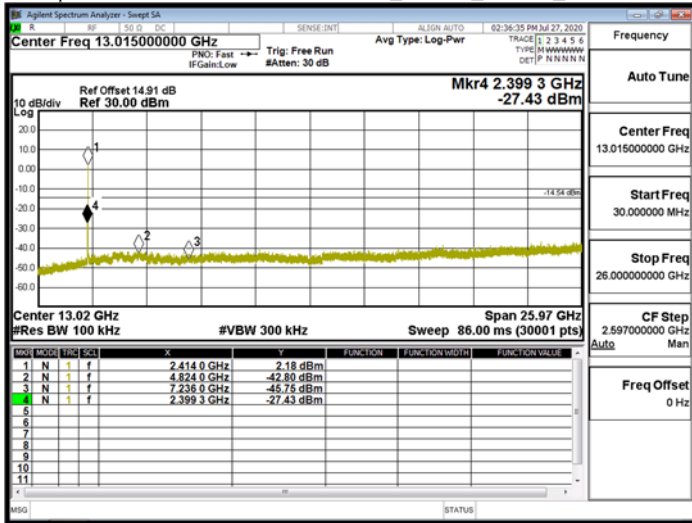


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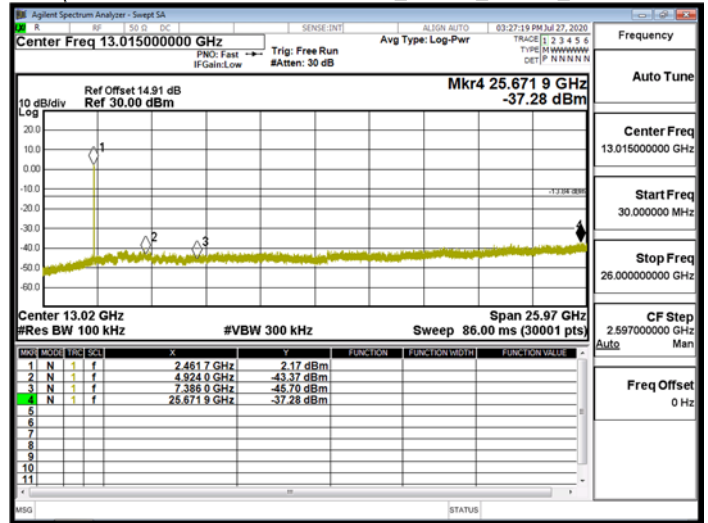
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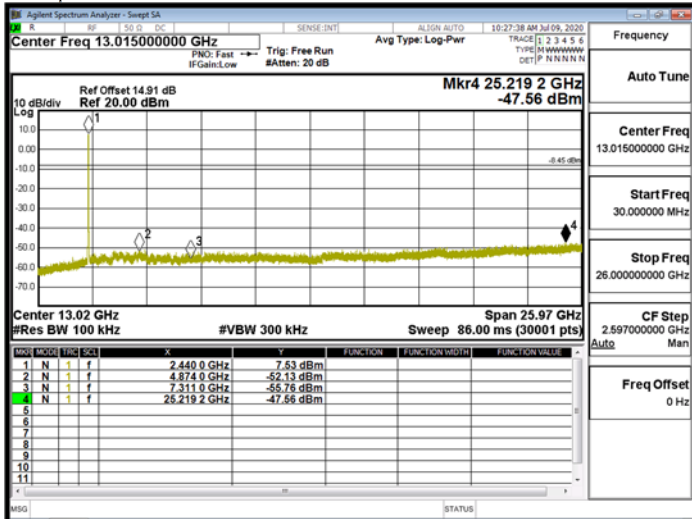
Spurious EmissionWLAN\802.11ax_20MHz_Chain1_2412MHz



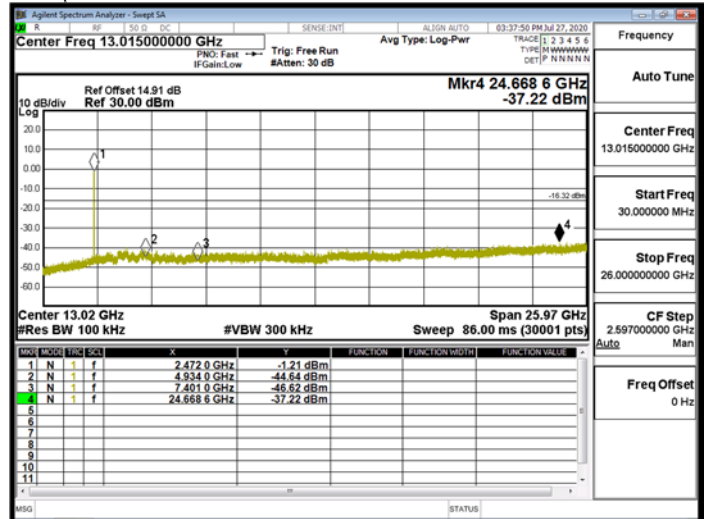
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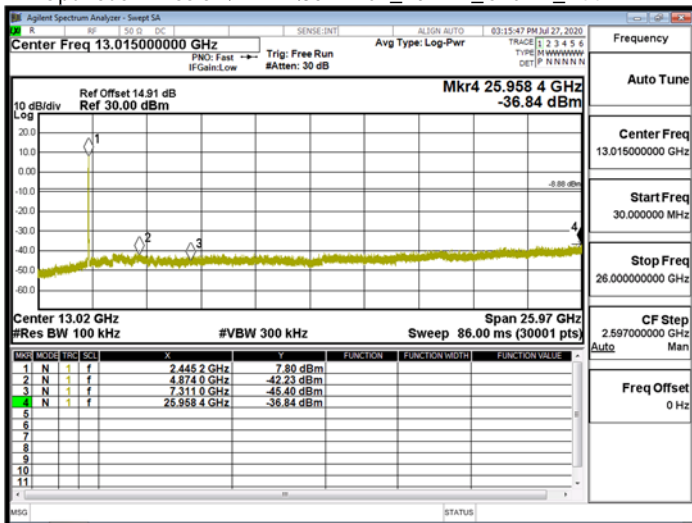
Spurious EmissionWLAN\802.11ax_20MHz_Chain1_2437MHz



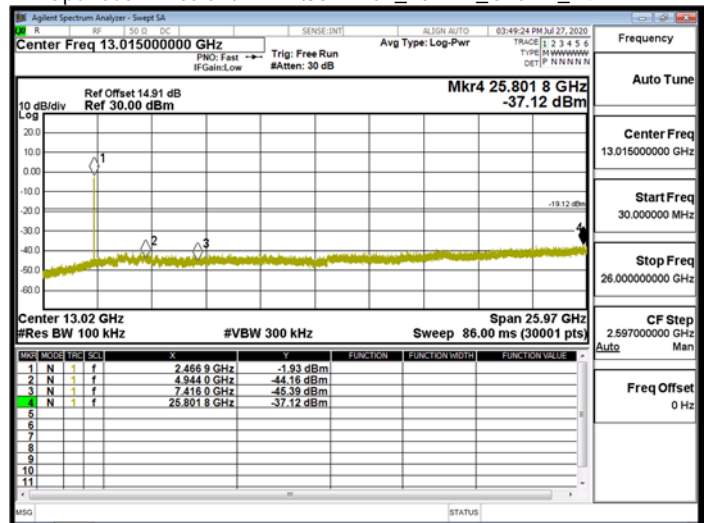
Spurious EmissionWLAN\802.11ax_20MHz_Chain1_2467MHz



Spurious EmissionWLAN\802.11ax_20MHz_Chain1_2442MHz



Spurious EmissionWLAN\802.11ax_20MHz_Chain1_2472MHz

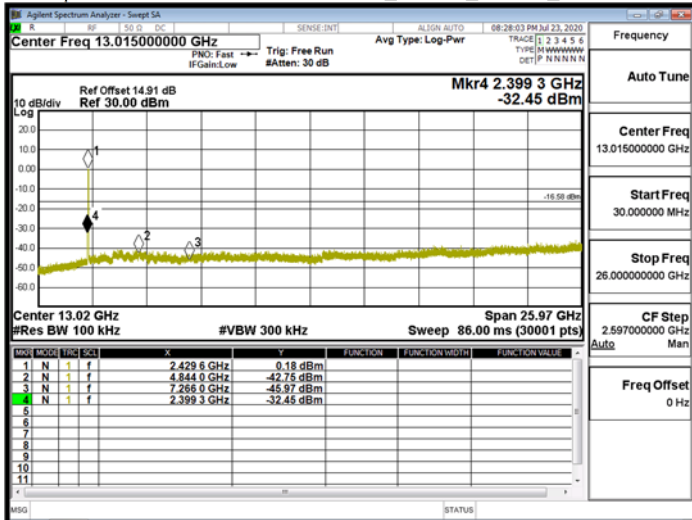


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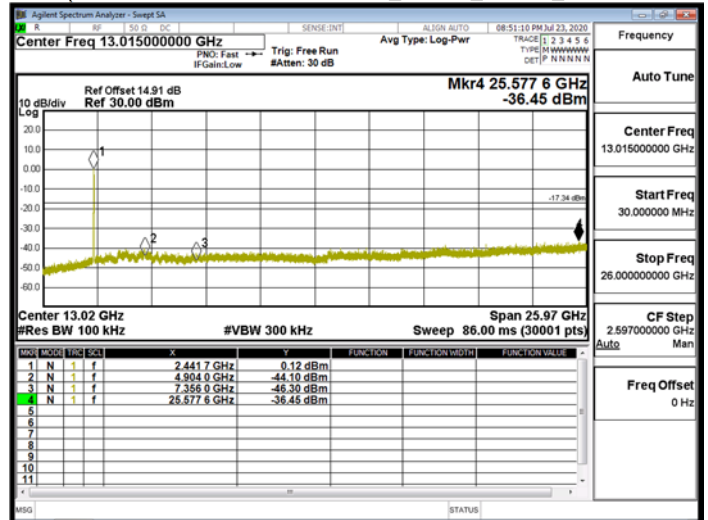
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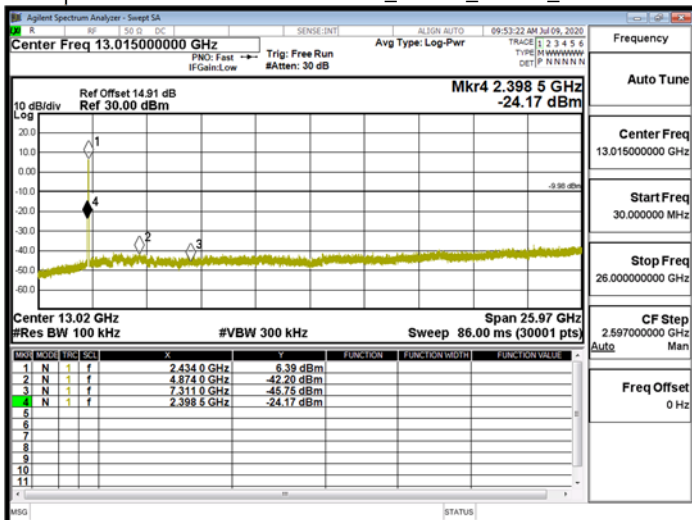
Spurious Emission\WLAN\802.11n_40MHz_Chain1_2422MHz



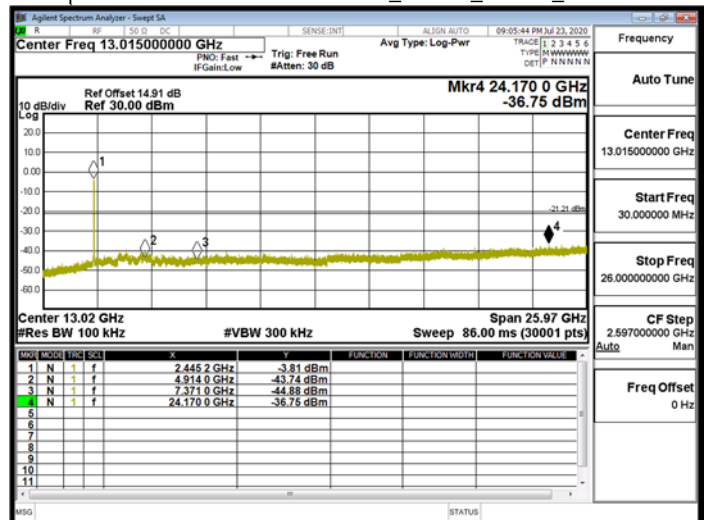
Spurious Emission\WLAN\802.11n_40MHz_Chain1_2452MHz



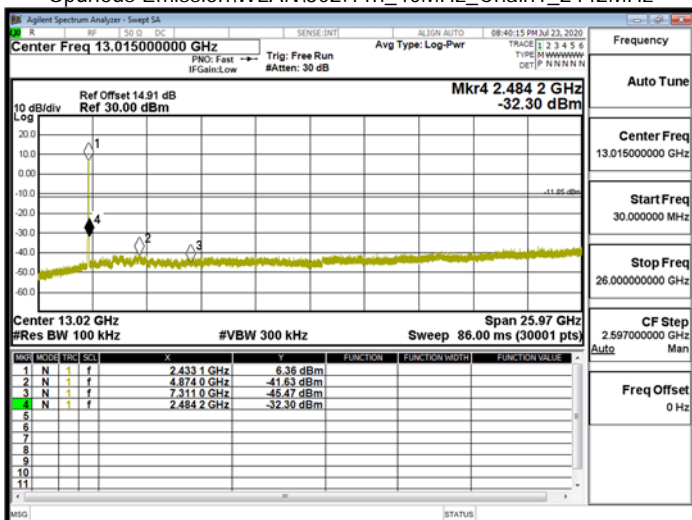
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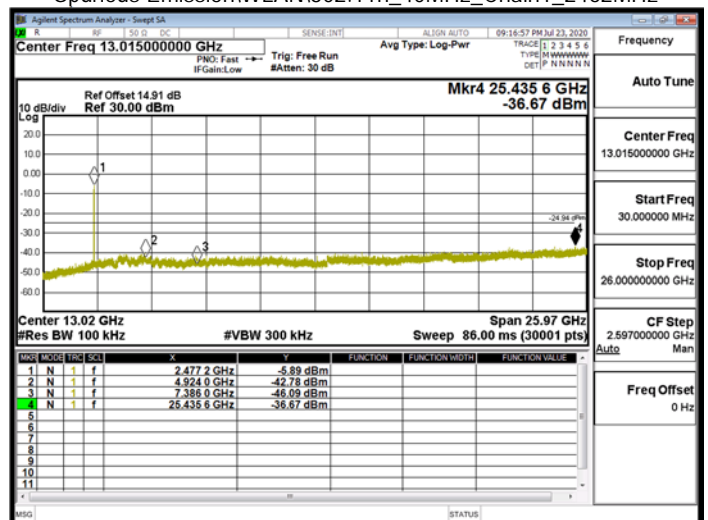
Spurious Emission\WLAN\802.11n_40MHz_Chain1_2457MHz



Spurious Emission\WLAN\802.11n_40MHz_Chain1_2442MHz



Spurious Emission\WLAN\802.11n_40MHz_Chain1_2462MHz

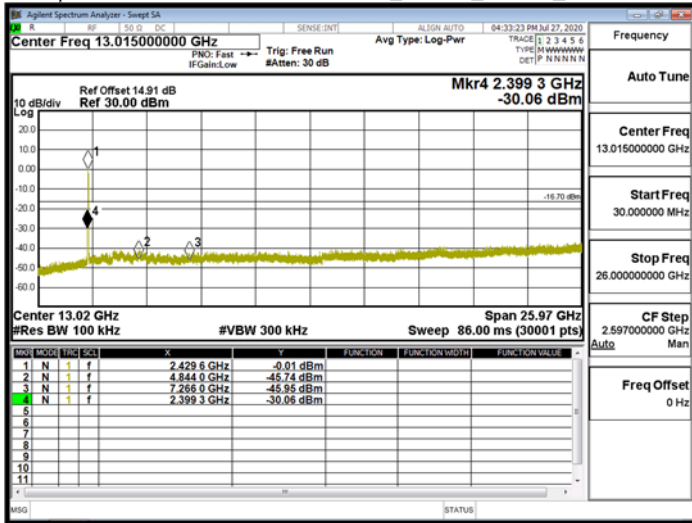


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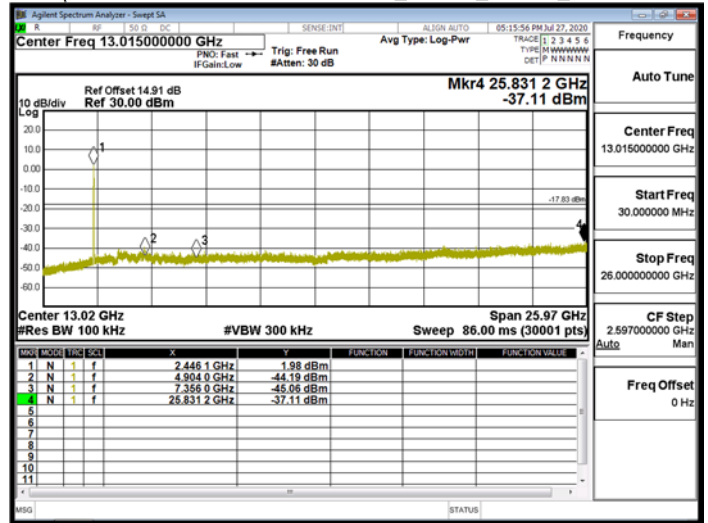
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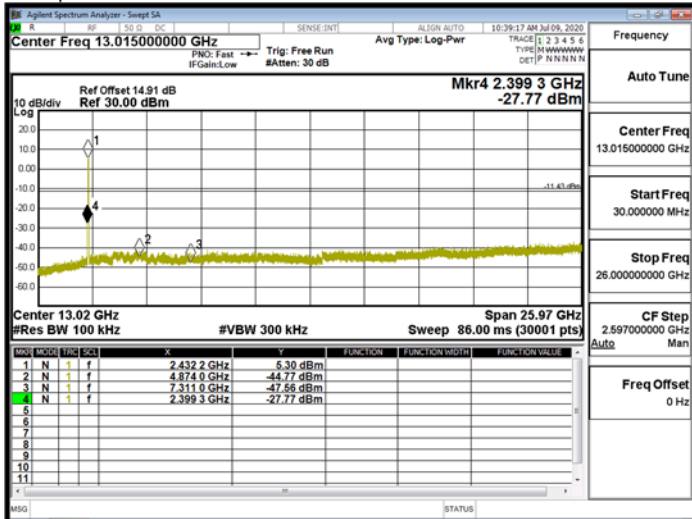
Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2422MHz



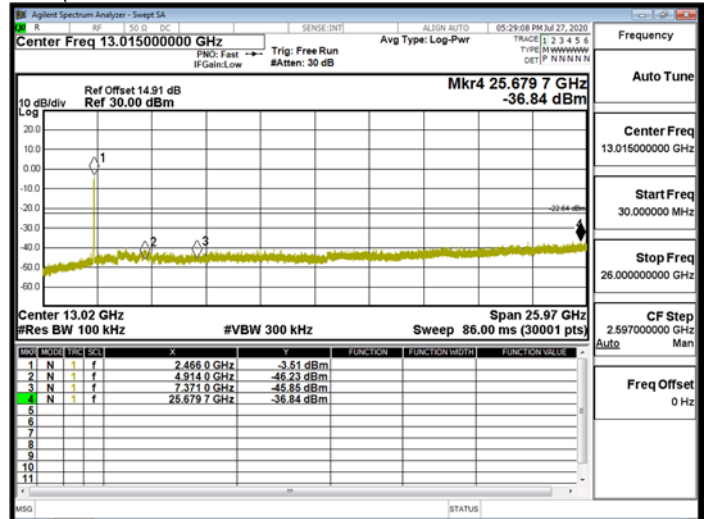
Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2452MHz



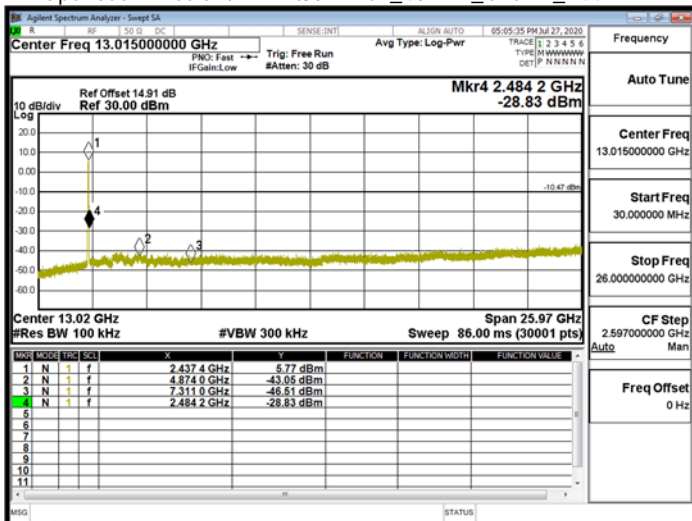
Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2437MHz



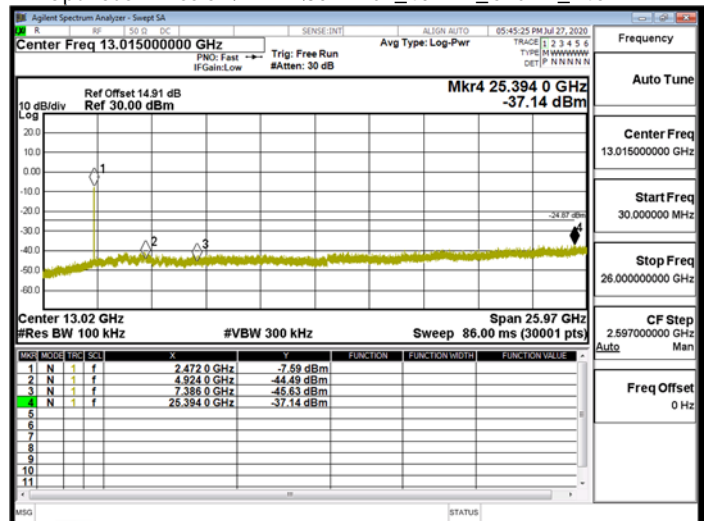
Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2457MHz



Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2442MHz



Spurious EmissionWLAN\802.11ax_40MHz_Chain1_2462MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

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

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	11/20/2019	11/19/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	11/20/2019	11/19/2020
Notch Filter	EWT	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/11/2020	11/10/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021

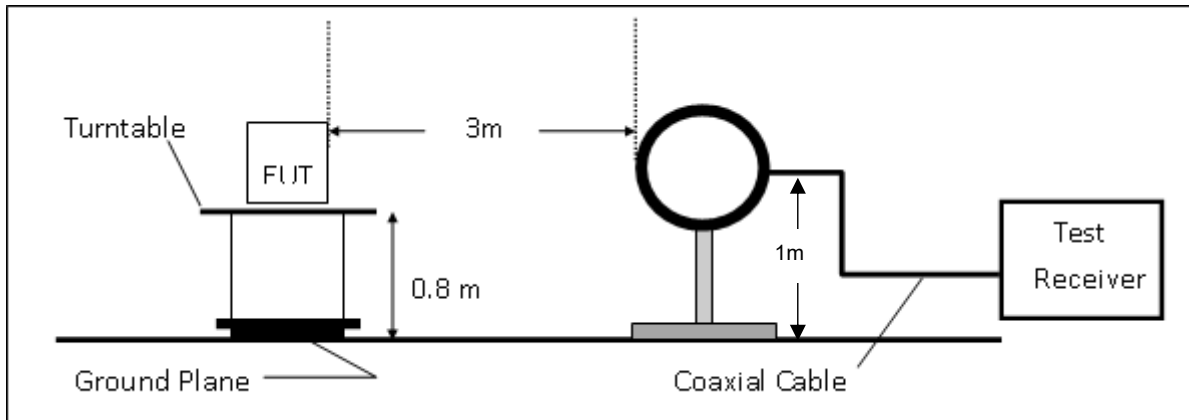
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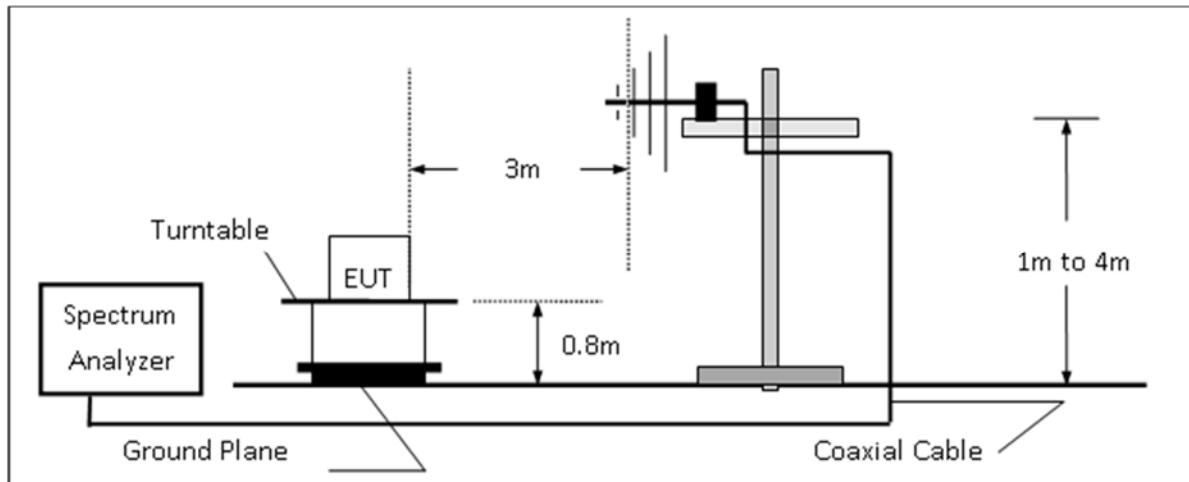
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11.3 Test SET-UP

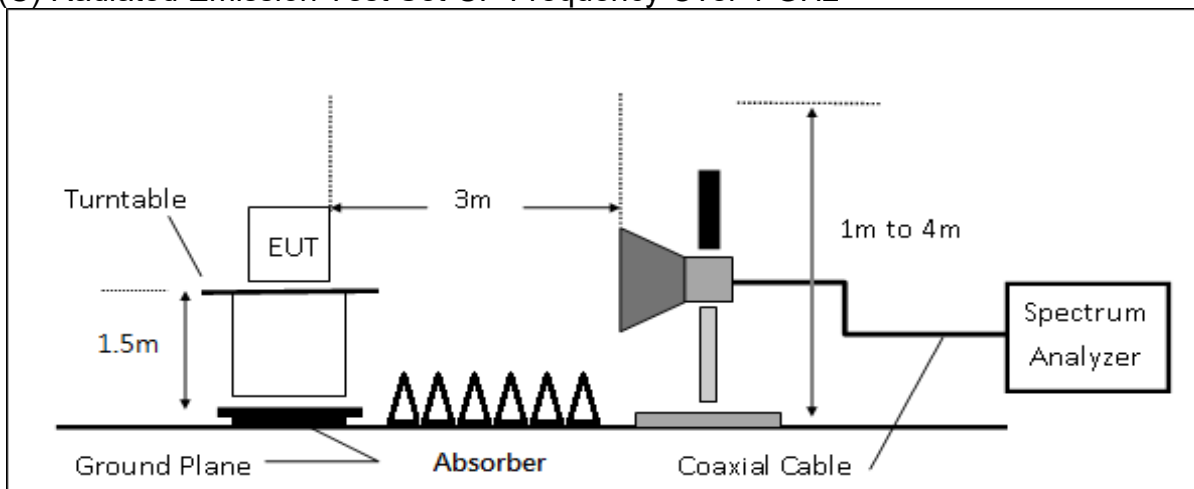
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 as referring to section 7.2 of this report for Average Detector at frequency above 1 GHz.
8. Averaging type = power.
9. Sweep time = auto.
10. Perform a trace average of at least 100 traces.
11. 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.
12. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
13. 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 set VBW as referring to section 7.2 of this report if average reading is measured.
14. 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) 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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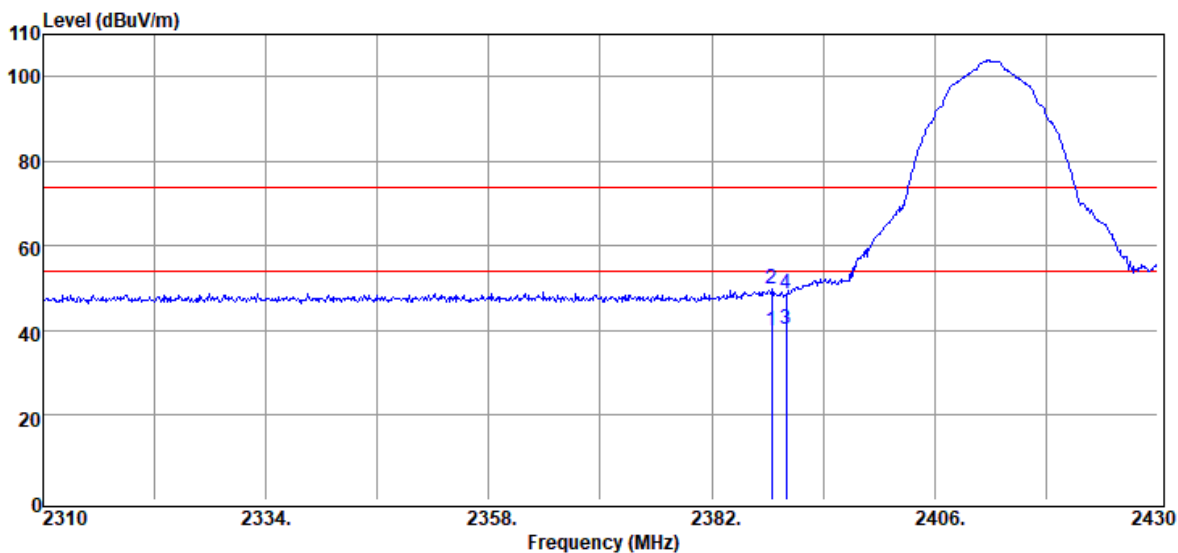
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11.7.1 Radiated Band Edge Measurement Result

Mode: Chain 0

Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11b	Test Date	:2020-08-04
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/68
Test Mode	:BE CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:Chain 0 / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.48	Average	45.62	-5.50	40.12	54.00	-13.88
2388.48	Peak	55.30	-5.50	49.80	74.00	-24.20
2390.00	Average	45.85	-5.50	40.35	54.00	-13.65
2390.00	Peak	54.12	-5.50	48.62	74.00	-25.38

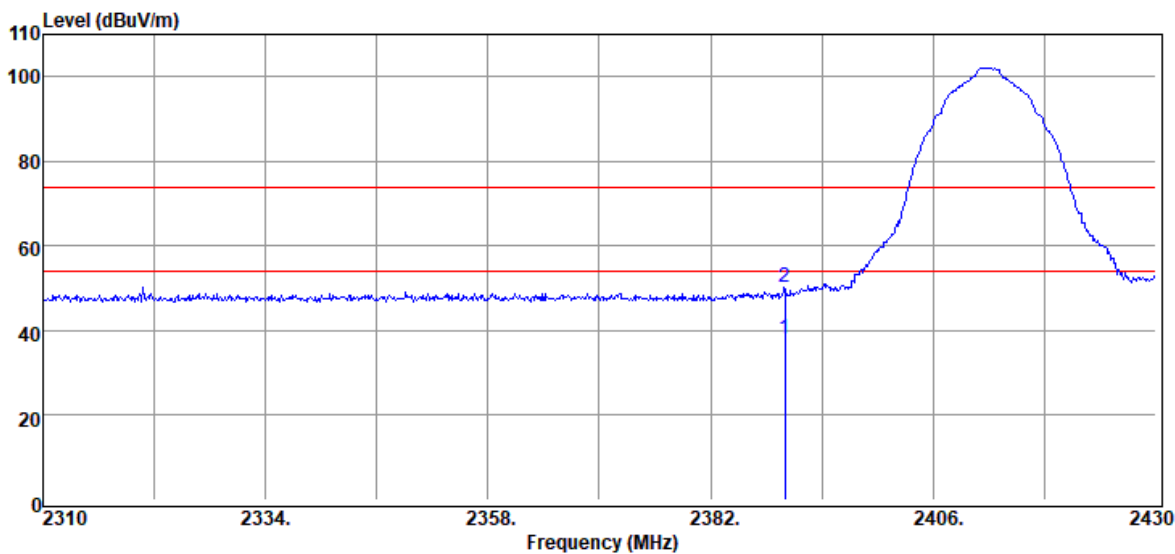
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Report Number :E2/2020/70036
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 2

Test Site :966 Chamber D
Test Date :2020-08-04
Temp./Humi. :22.5/68
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	43.62	-5.50	38.12	54.00	-15.88
2390.00	Peak	55.84	-5.50	50.34	74.00	-23.66

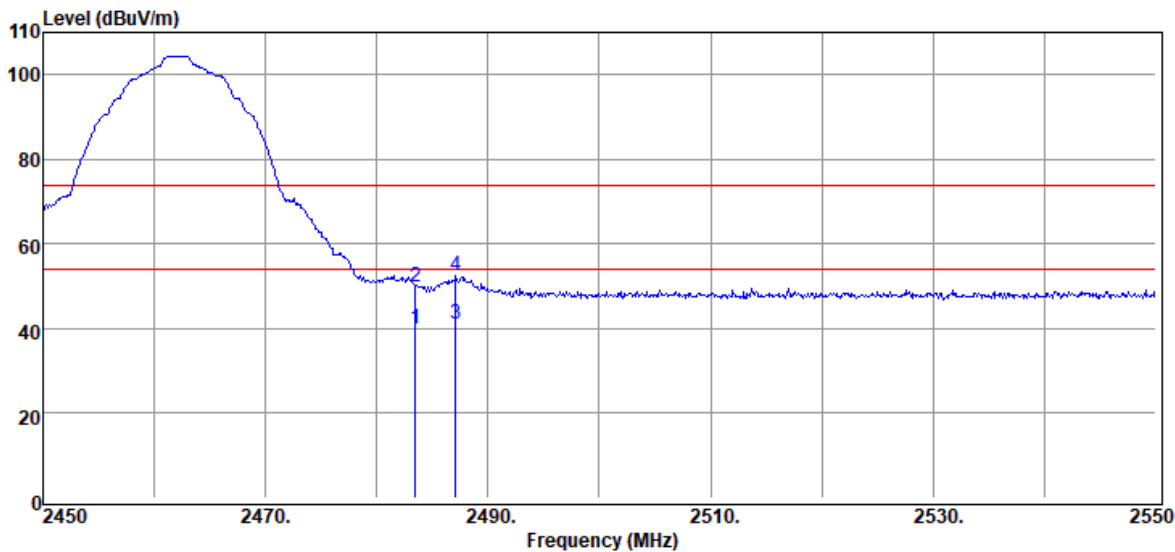
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Report Number :E2/2020/70036
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 2

Test Site :966 Chamber D
Test Date :2020-08-04
Temp./Humi. :22.4/67
Antenna Pol. :VERTICAL
Engineer :Kailin



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	45.56	-5.56	40.00	54.00	-14.00
2483.50	Peak	55.48	-5.56	49.92	74.00	-24.08
2487.10	Average	46.69	-5.56	41.13	54.00	-12.87
2487.10	Peak	58.11	-5.56	52.55	74.00	-21.45

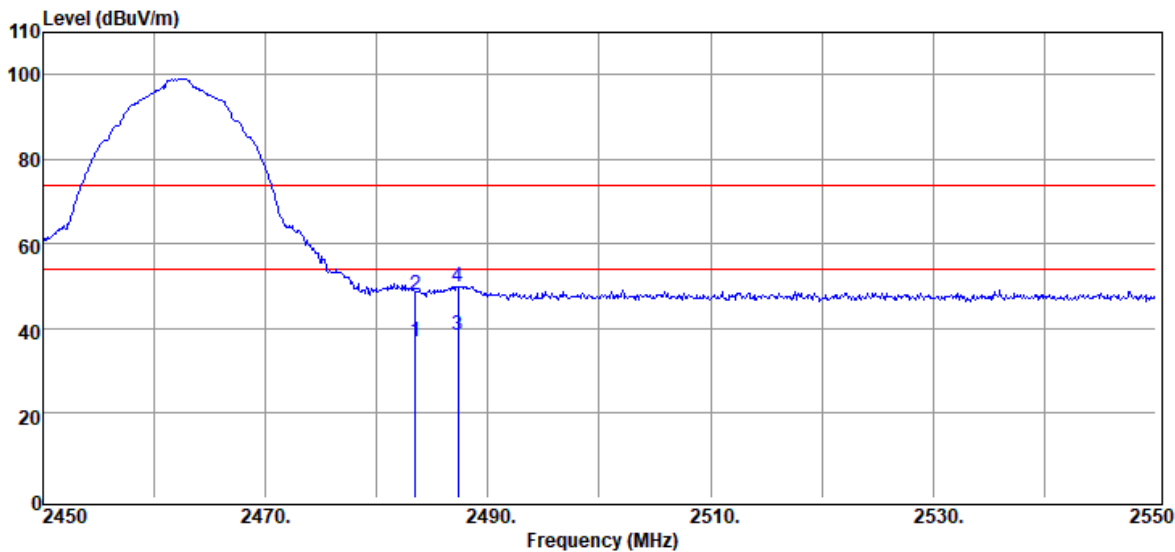
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Report Number :E2/2020/70036
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 2

Test Site :966 Chamber D
Test Date :2020-08-04
Temp./Humi. :22.4/67
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.50	-5.56	36.94	54.00	-17.06
2483.50	Peak	53.55	-5.56	47.99	74.00	-26.01
2487.30	Average	44.14	-5.56	38.58	54.00	-15.42
2487.30	Peak	55.54	-5.56	49.98	74.00	-24.02

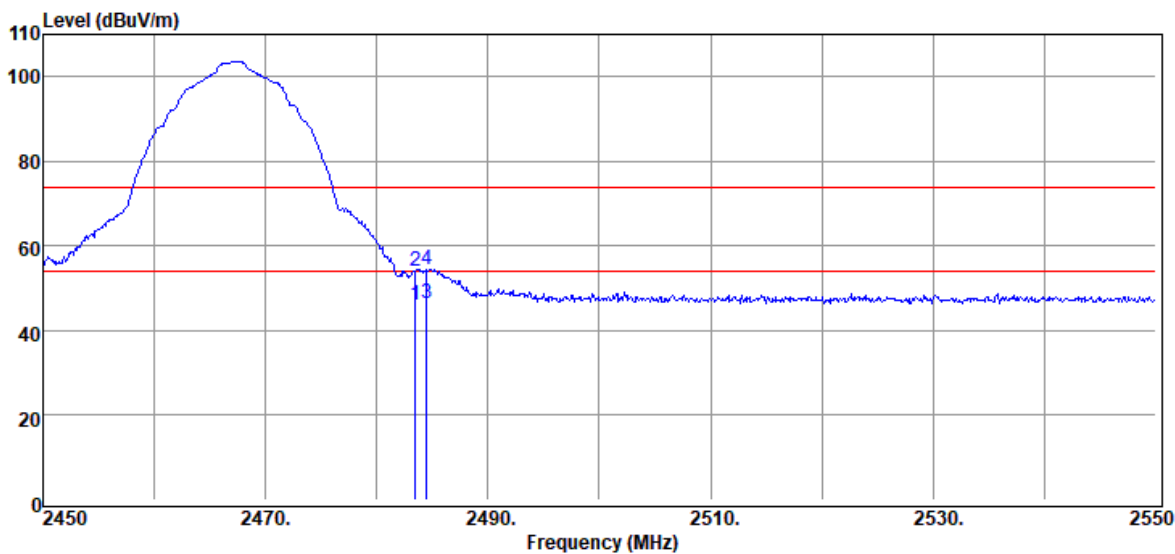
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Report Number :E2/2020/70036
Operation Mode :802.11b
Test Frequency :2467 MHz
Test Mode :BE CH 12
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 2

Test Site :966 Chamber D
Test Date :2020-08-04
Temp./Humi. :22.4/67
Antenna Pol. :VERTICAL
Engineer :Kailin



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	51.54	-5.56	45.98	54.00	-8.02
2483.50	Peak	59.77	-5.56	54.21	74.00	-19.79
2484.50	Average	52.15	-5.56	46.59	54.00	-7.41
2484.50	Peak	60.09	-5.56	54.53	74.00	-19.47

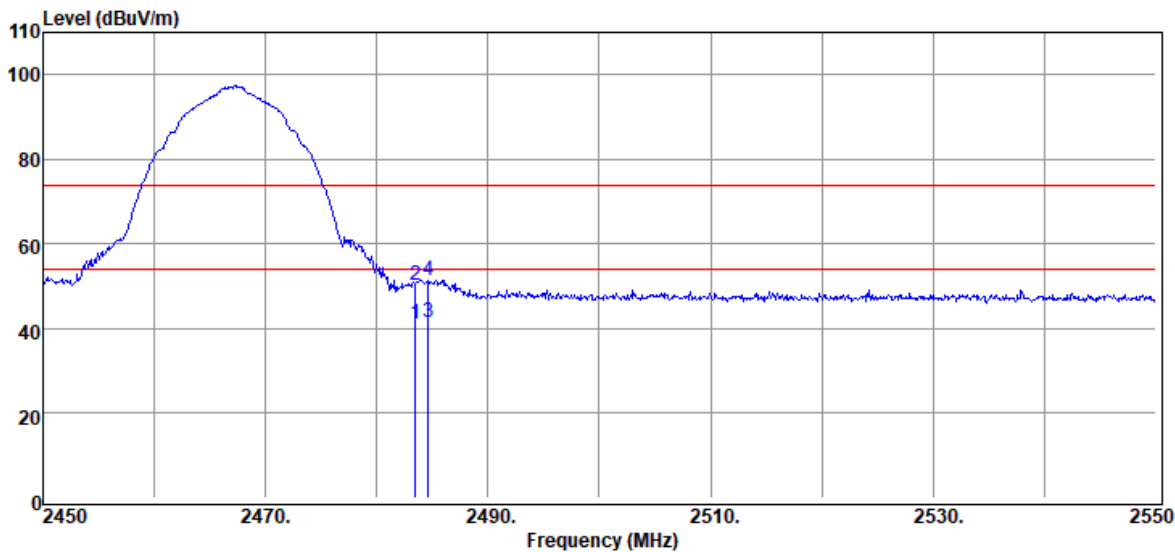
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Report Number :E2/2020/70036
Operation Mode :802.11b
Test Frequency :2467 MHz
Test Mode :BE CH 12
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 2

Test Site :966 Chamber D
Test Date :2020-08-04
Temp./Humi. :22.4/67
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.58	-5.56	41.02	54.00	-12.98
2483.50	Peak	55.97	-5.56	50.41	74.00	-23.59
2484.60	Average	47.15	-5.56	41.59	54.00	-12.41
2484.60	Peak	57.06	-5.56	51.50	74.00	-22.50

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