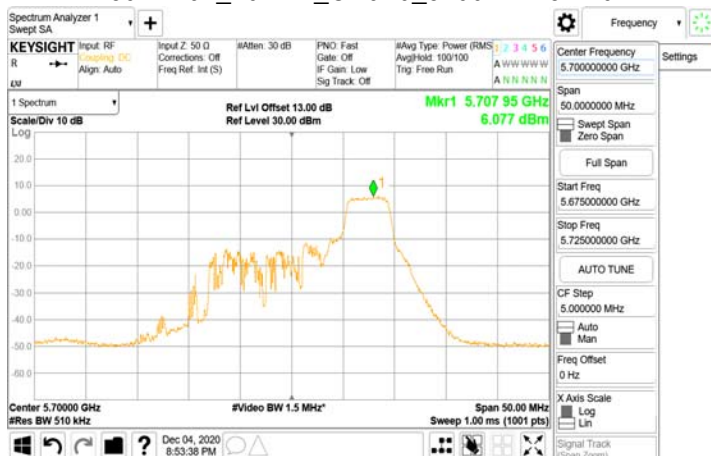
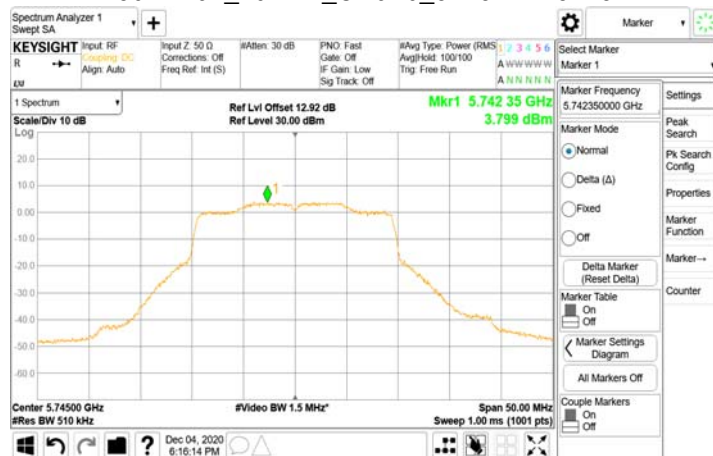


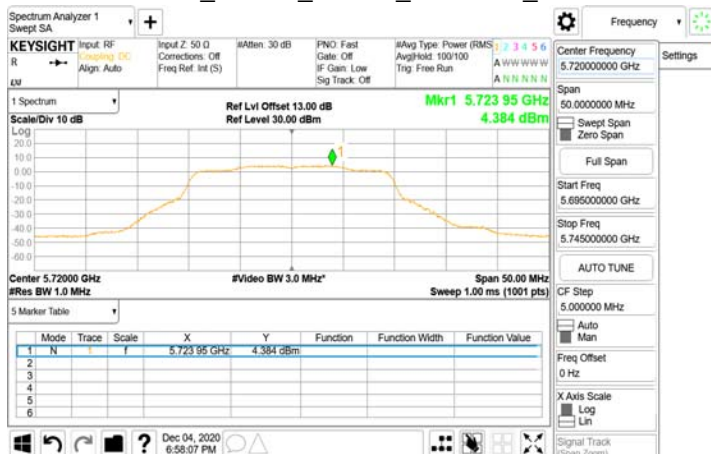
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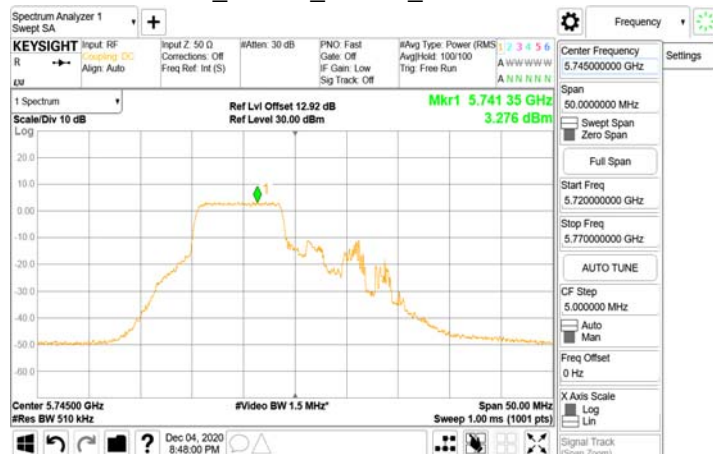
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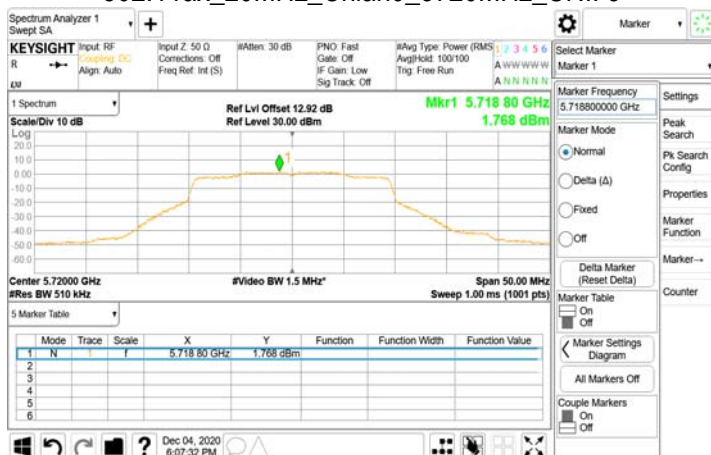
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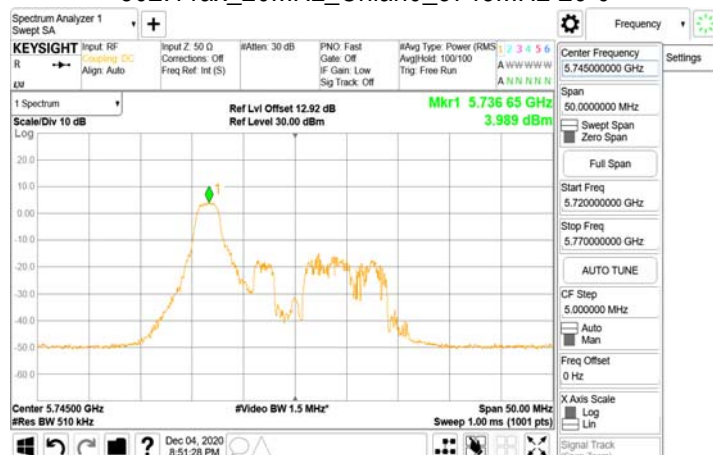
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802.11ax_20MHz_Chian0_5720MHz_UNII 3



802.11ax_20MHz_Chian0_5745MHz-26-0

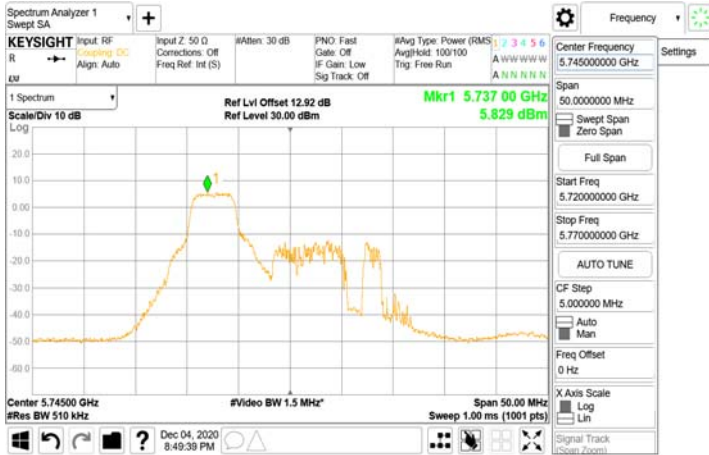


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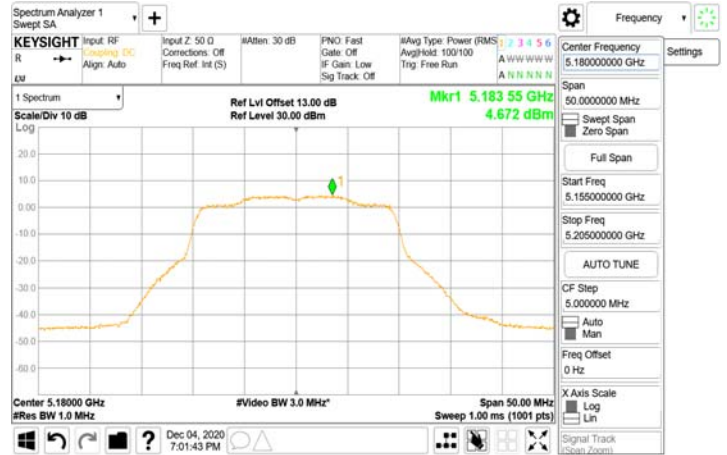
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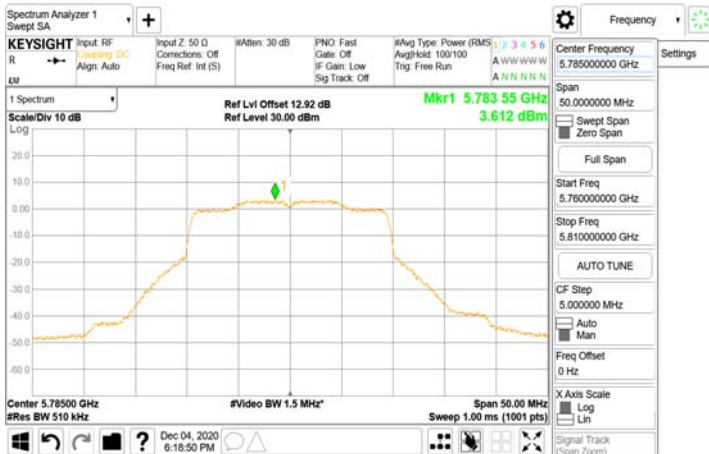
802.11ax_20MHz_Chian0_5745MHz-52-37



802.11ax_20MHz_Chain1_5180MHz-5180



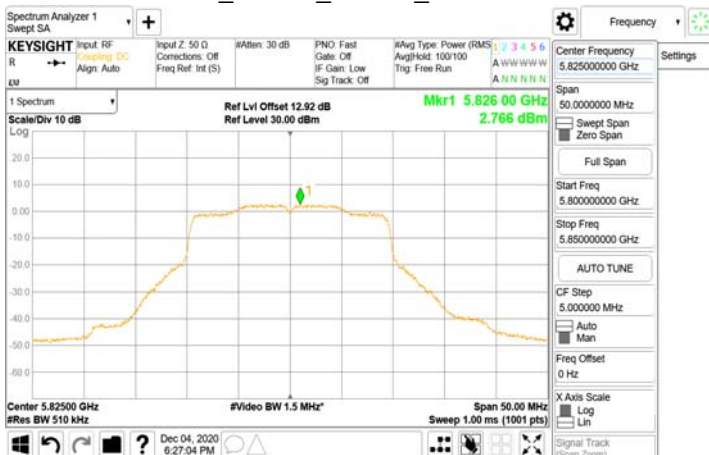
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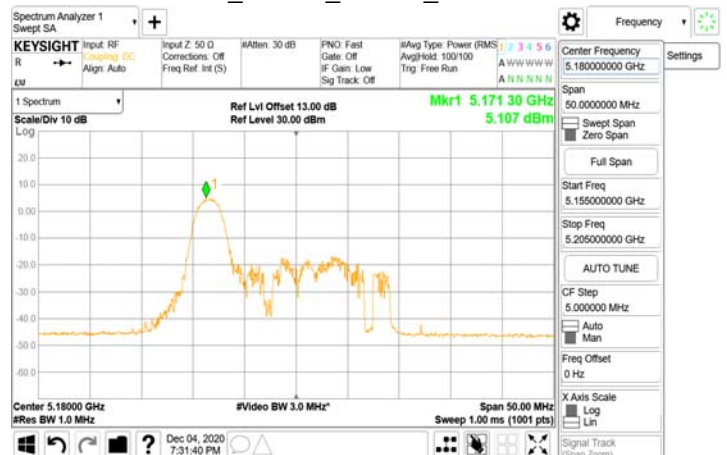
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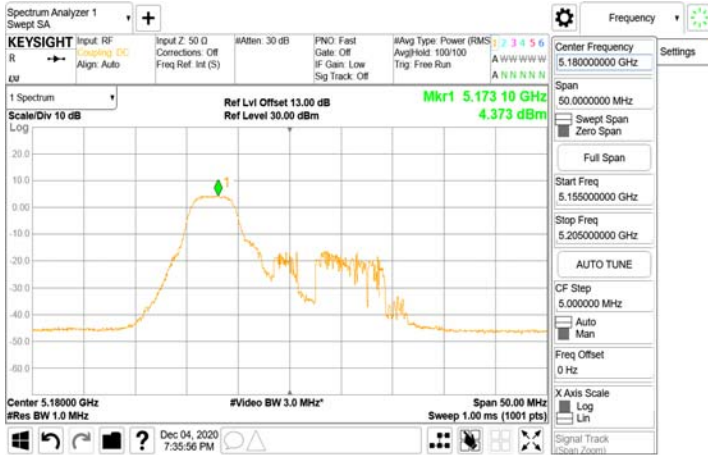


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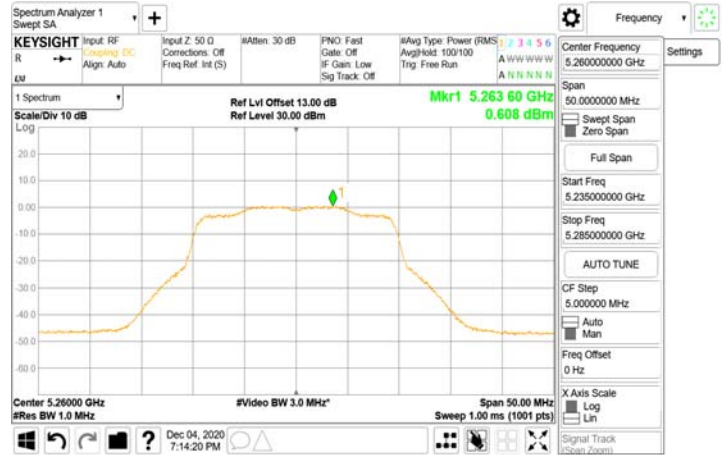
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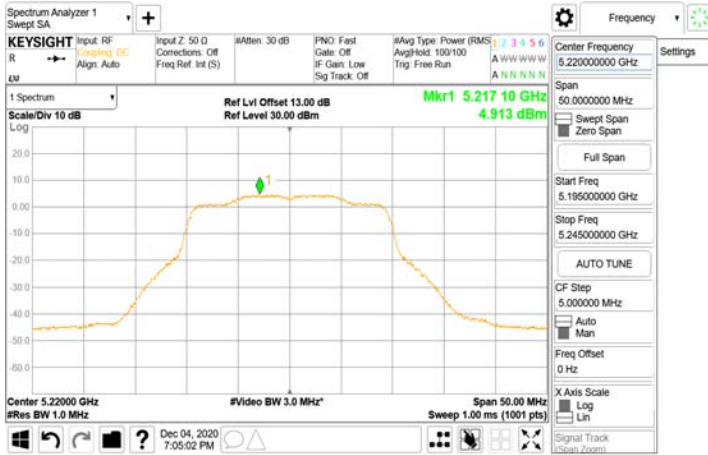
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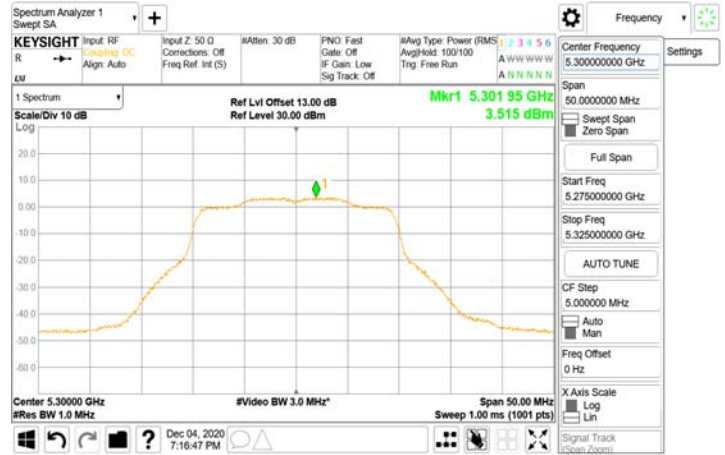
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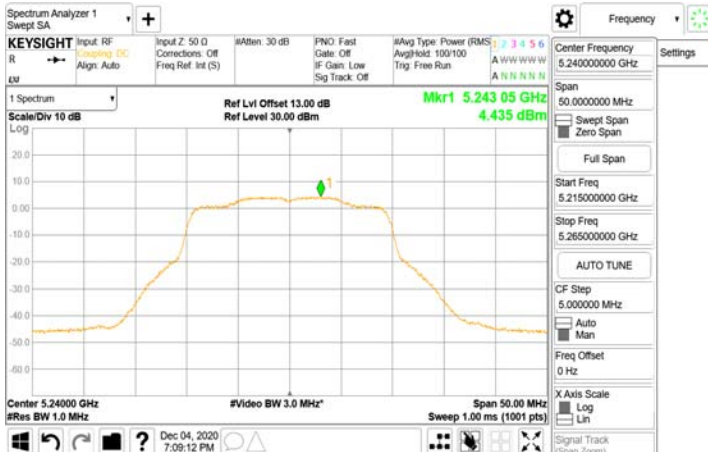
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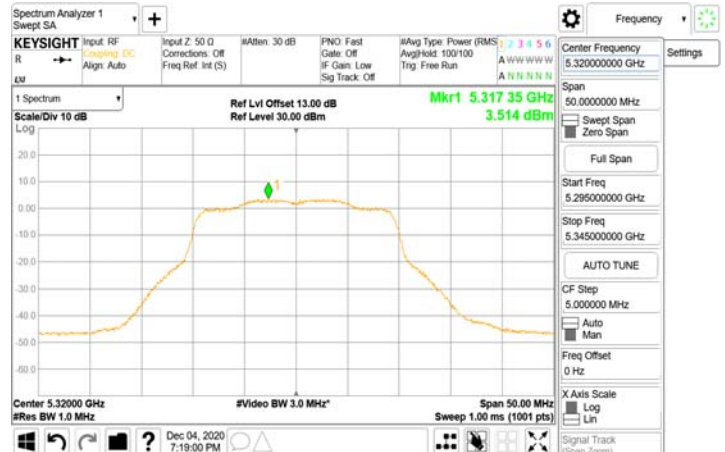
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802.11ax_20MHz_Chian1_5320MHz-5320

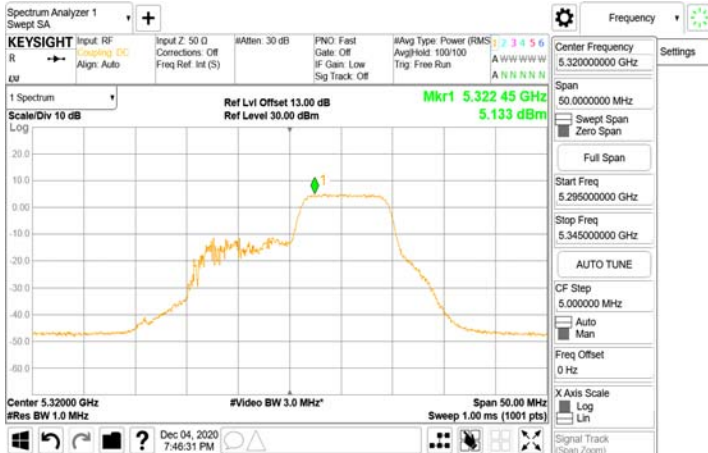


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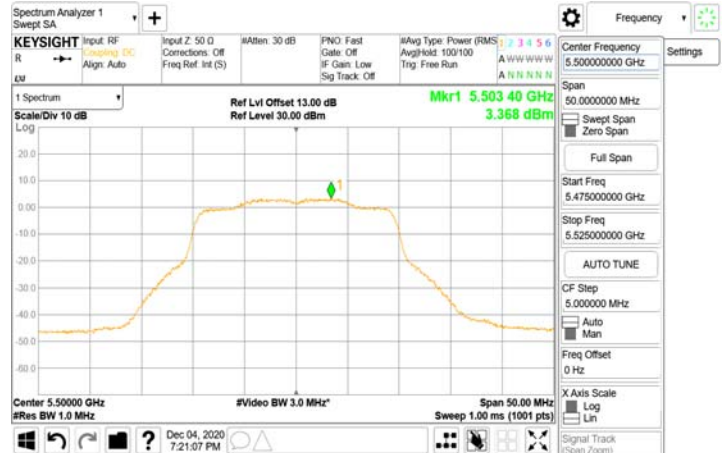
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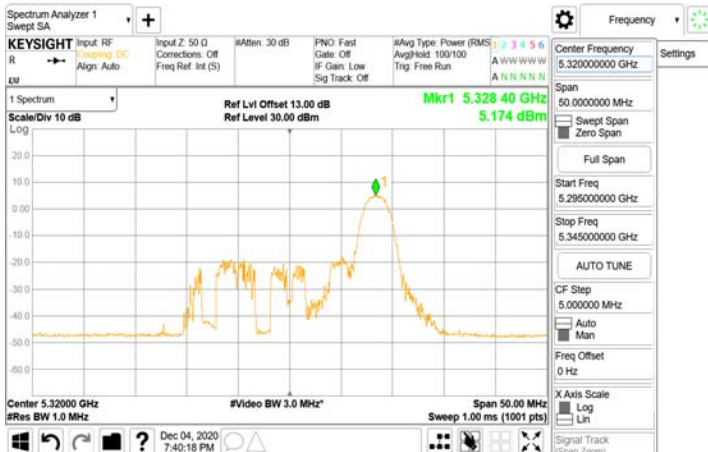
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802.11ax_20MHz_Chian1_5500MHz-5500



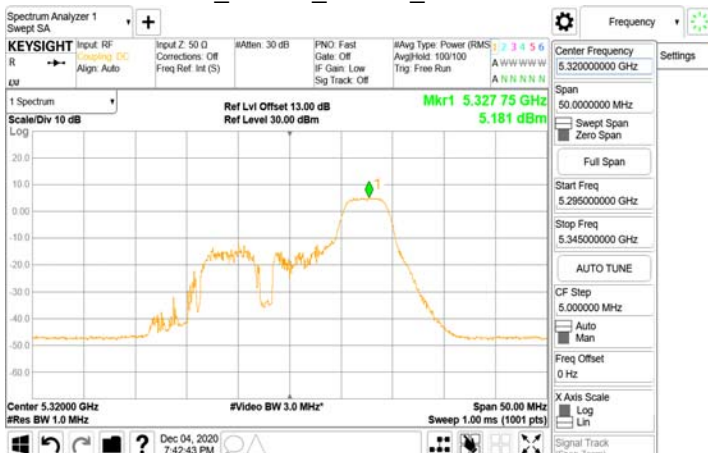
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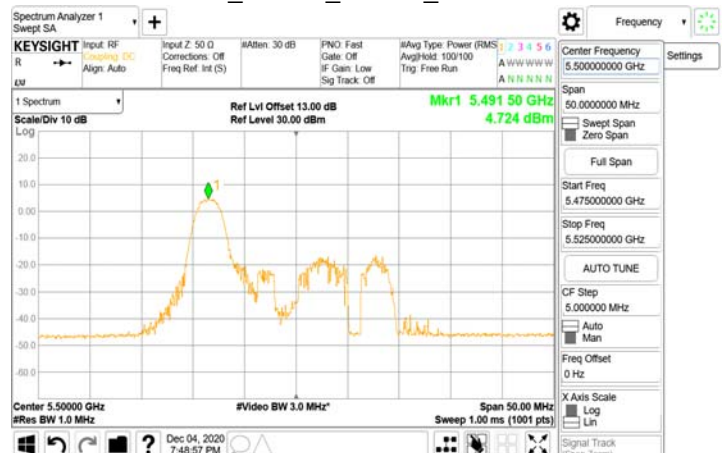
802.11ax_20MHz_Chian1_5500MHz-106-53



802.11ax_20MHz_Chian1_5320MHz-52-40



802.11ax_20MHz_Chain1_5500MHz-26-0

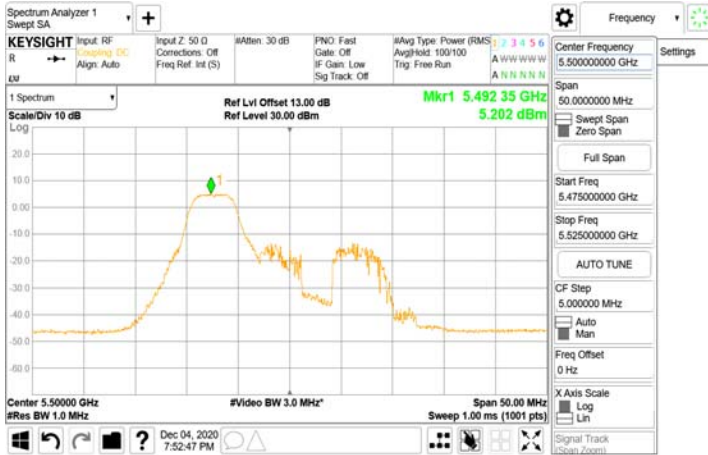


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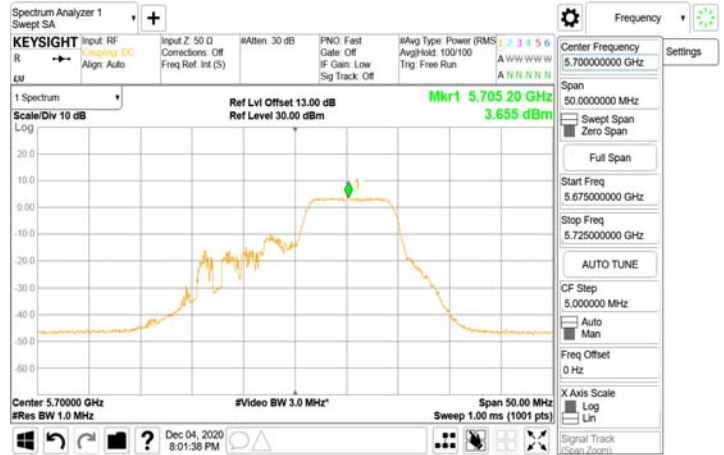
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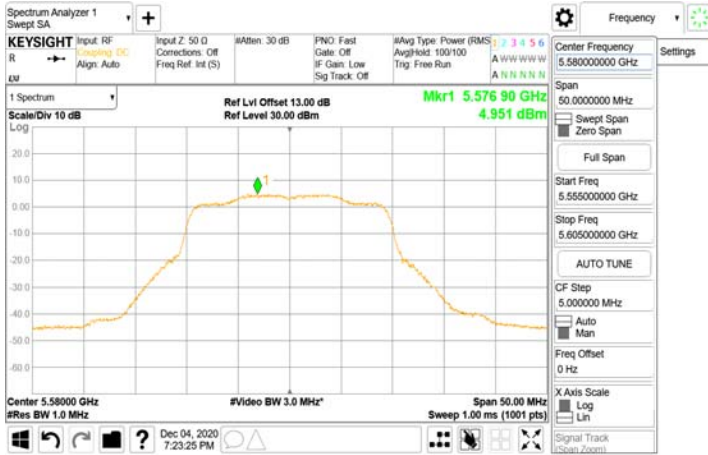
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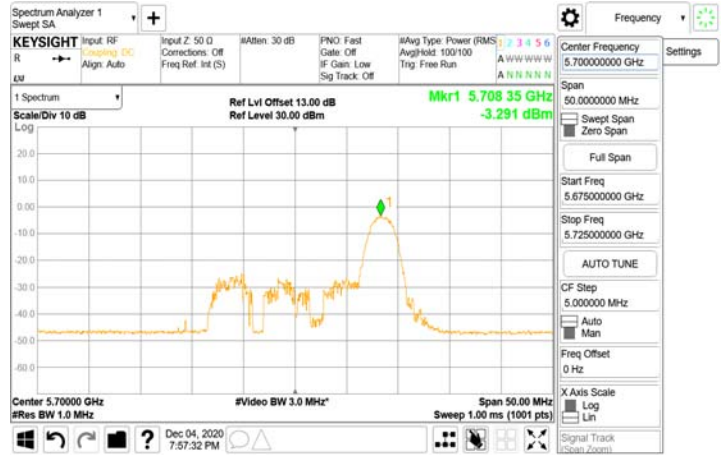
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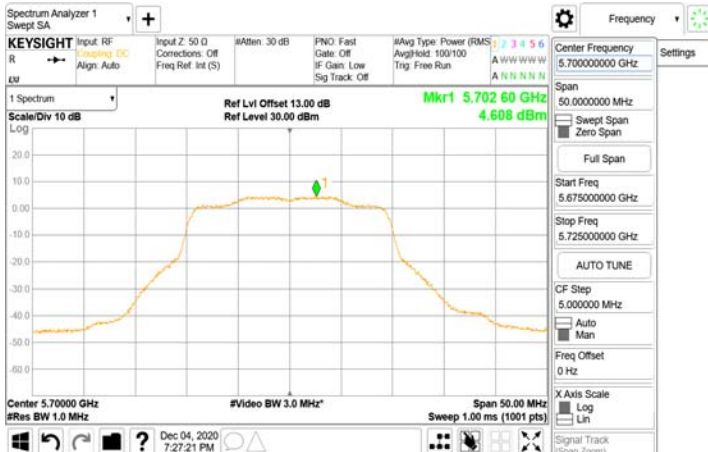
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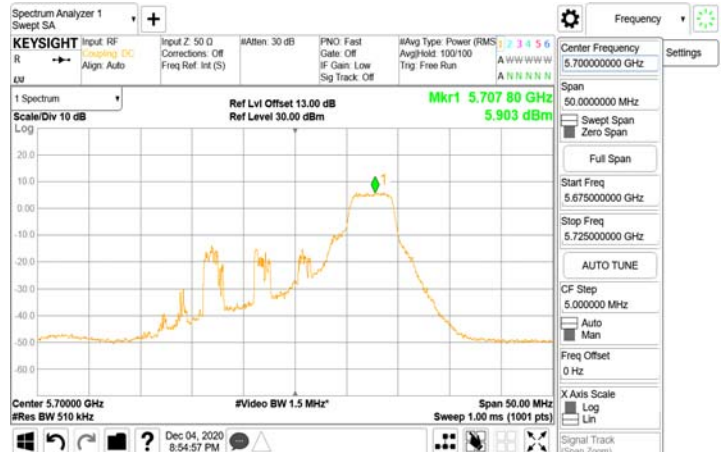
802.11ax_20MHz_Chian1_5700MHz-26-8



802.11ax_20MHz_Chian1_5700MHz-5700



802.11ax_20MHz_Chian1_5700MHz-52-40



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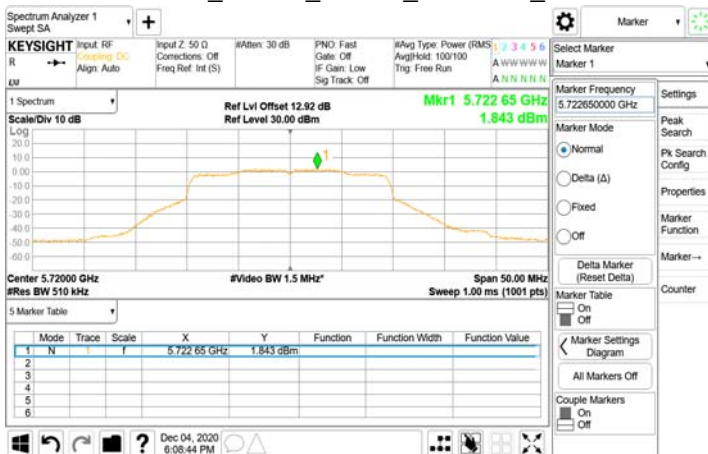
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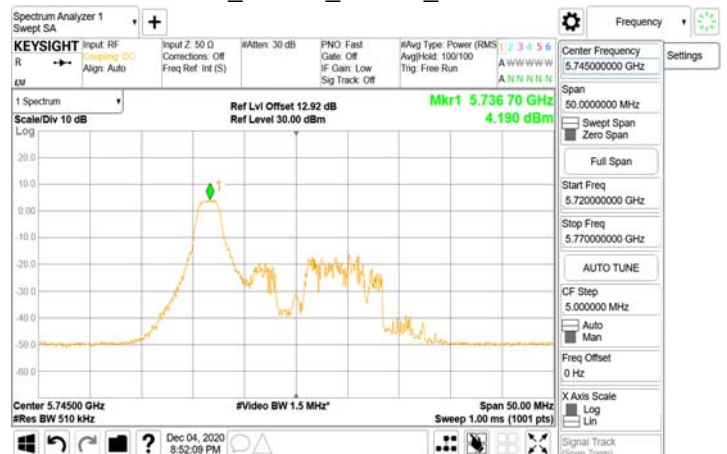
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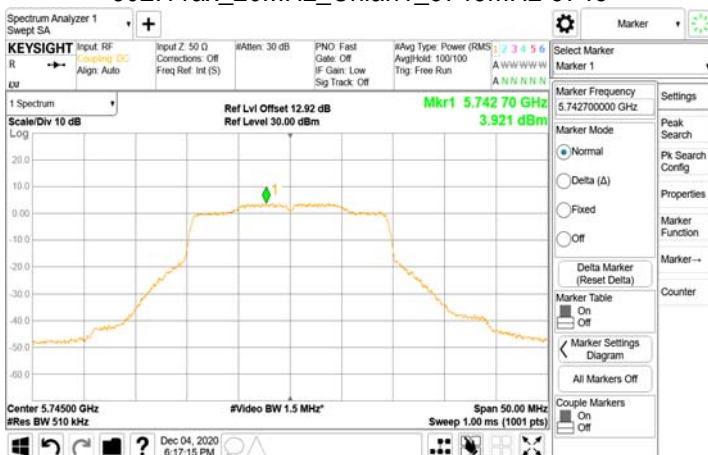
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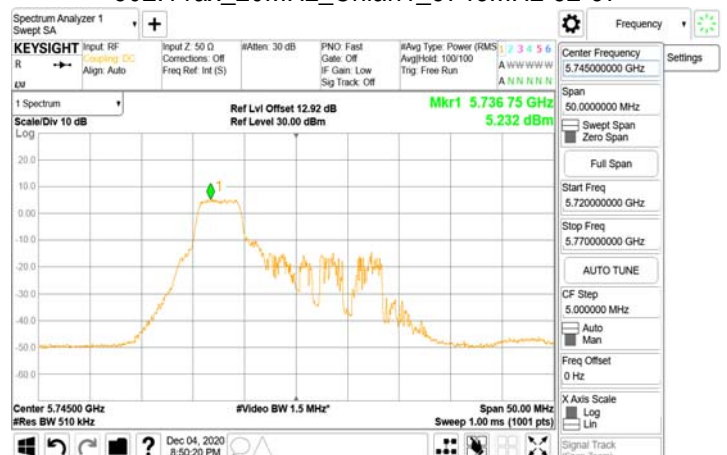
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802.11ax_20MHz_Chian1_5745MHz-5745



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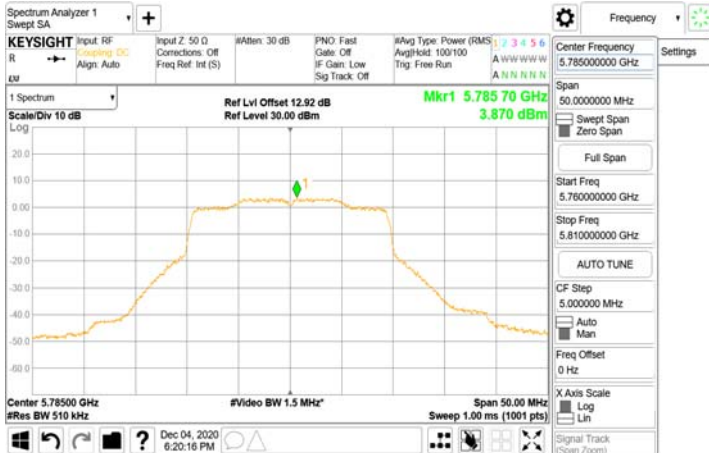


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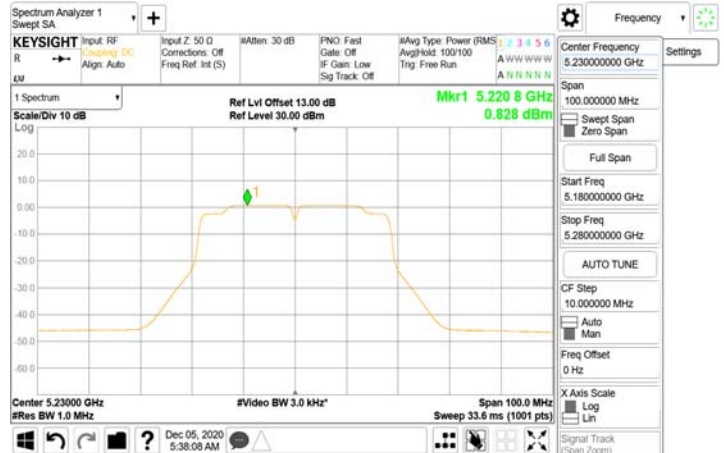
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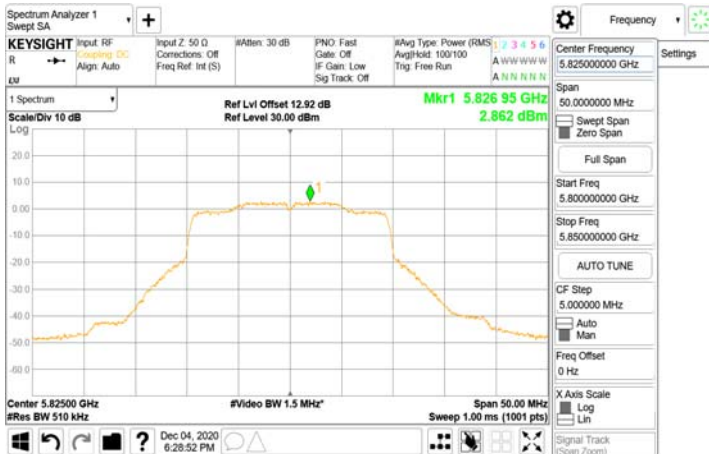
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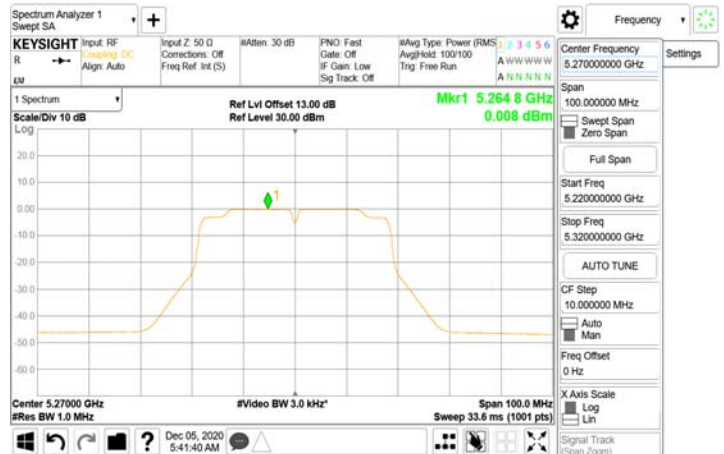
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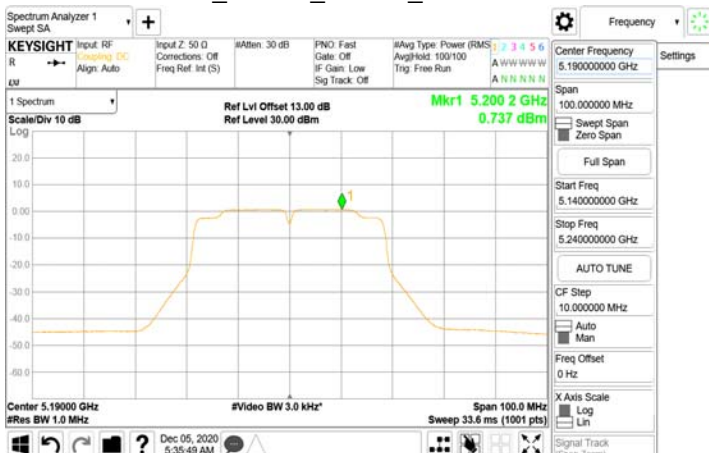
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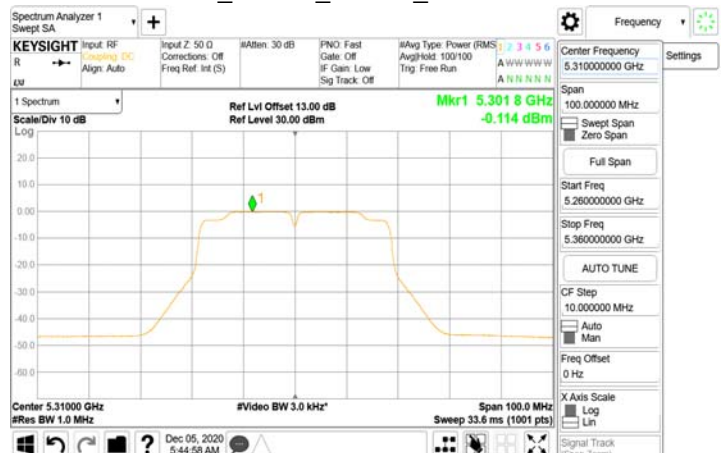
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802.11n_40MHz_Chian0_5190MHz-5190



802.11n_40MHz_Chian0_5310MHz-5310

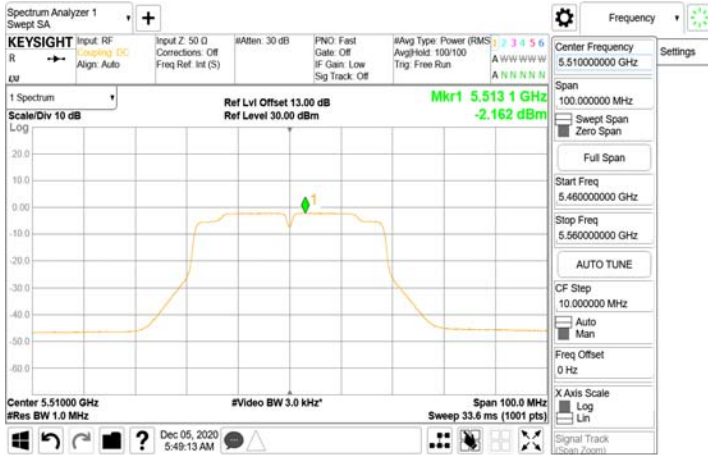


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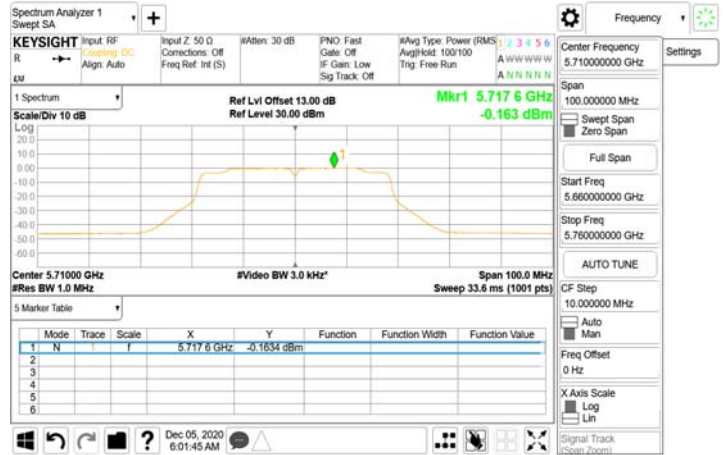
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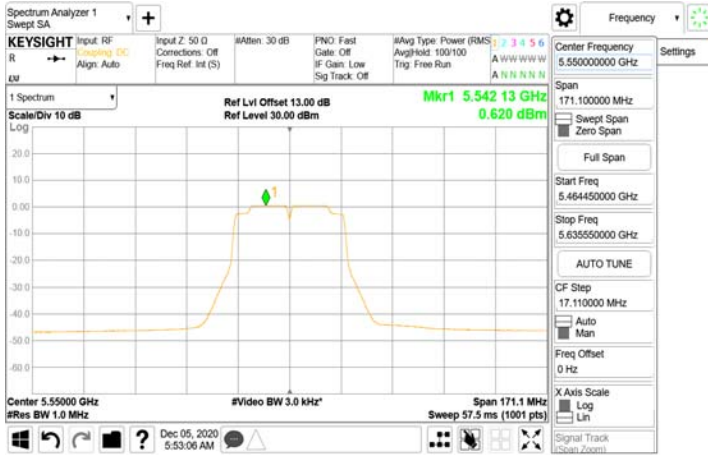
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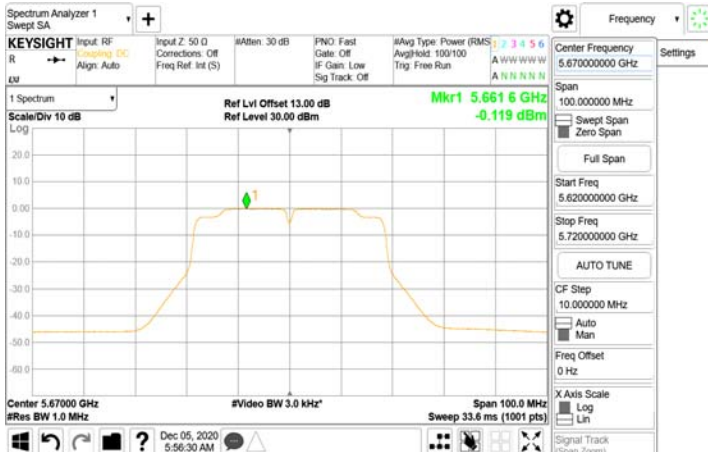
802.11n_40MHz_Chian0_5550MHz-5550



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802.11n_40MHz_Chian0_5755MHz-5755

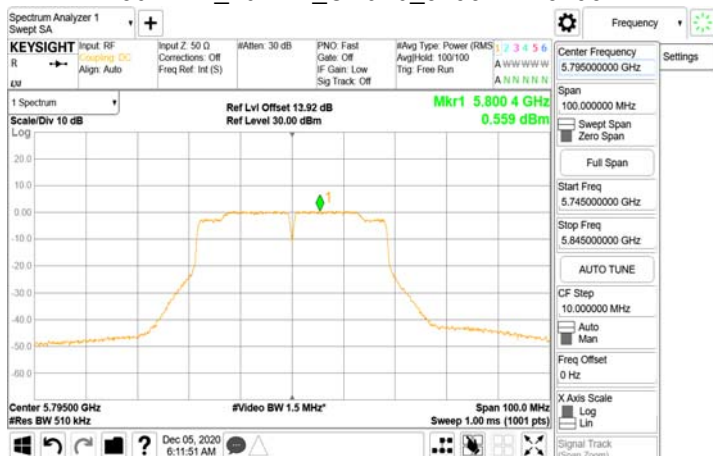


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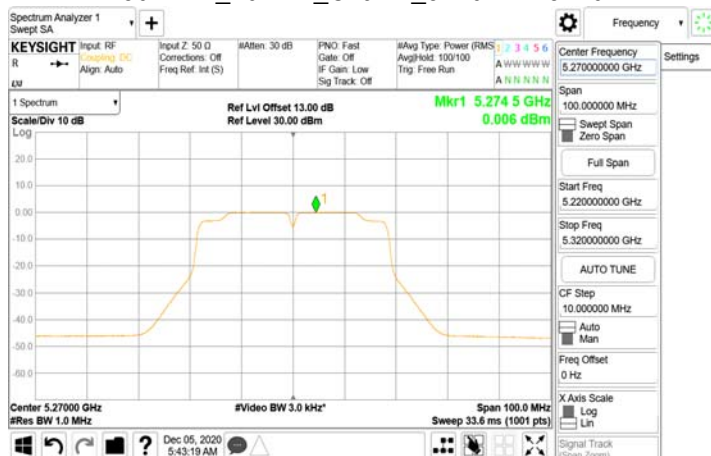
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802.11n_40MHz_Chian0_5795MHz-5795



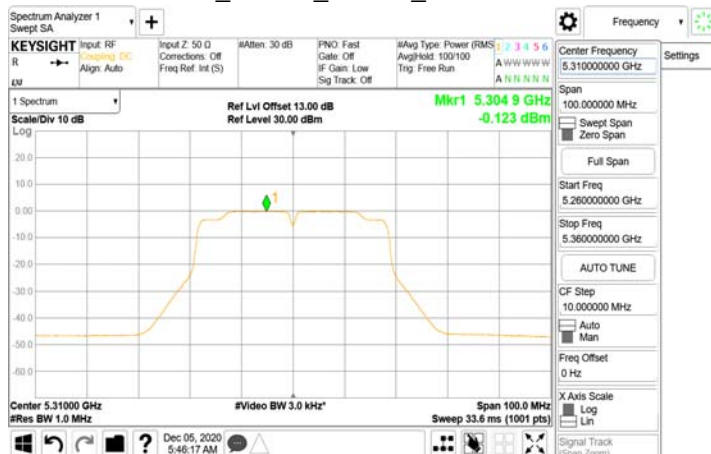
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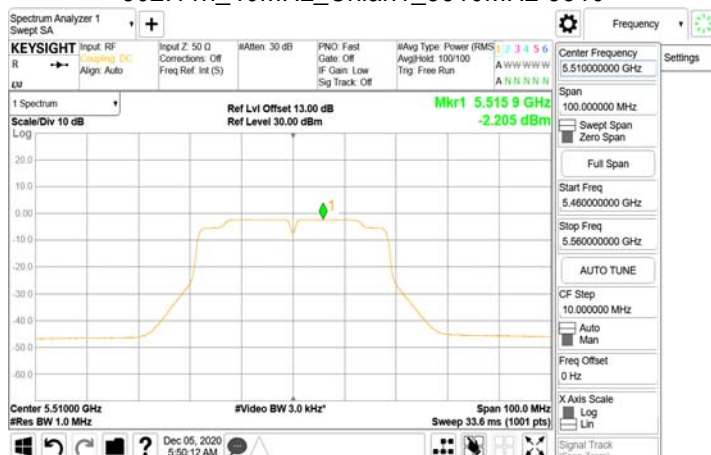
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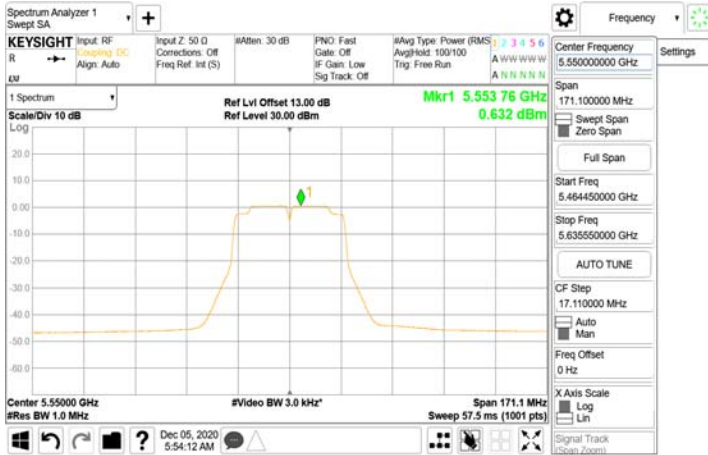


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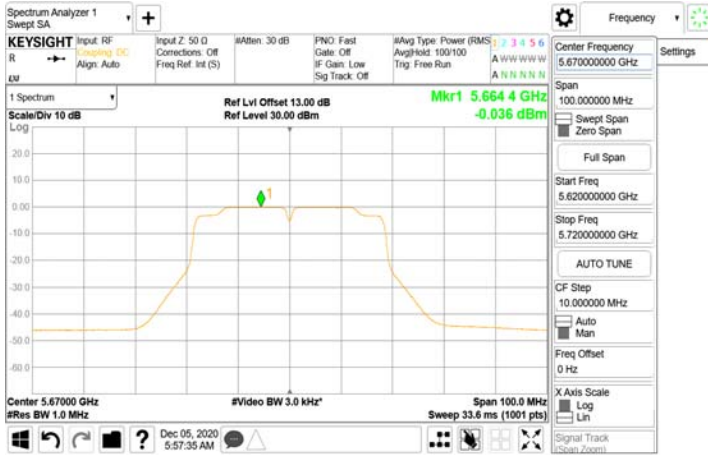
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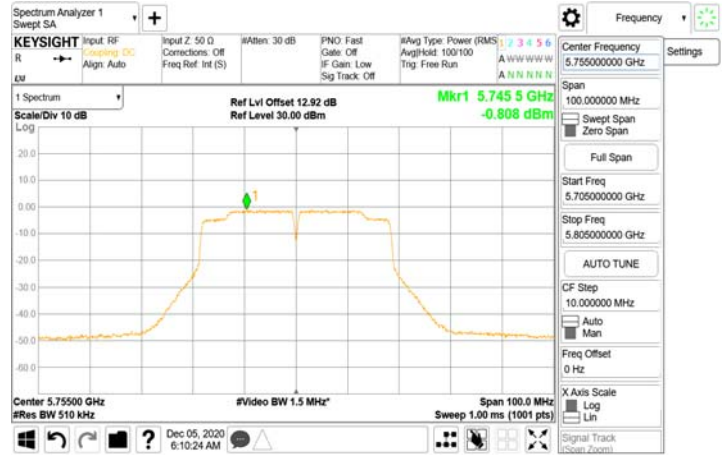
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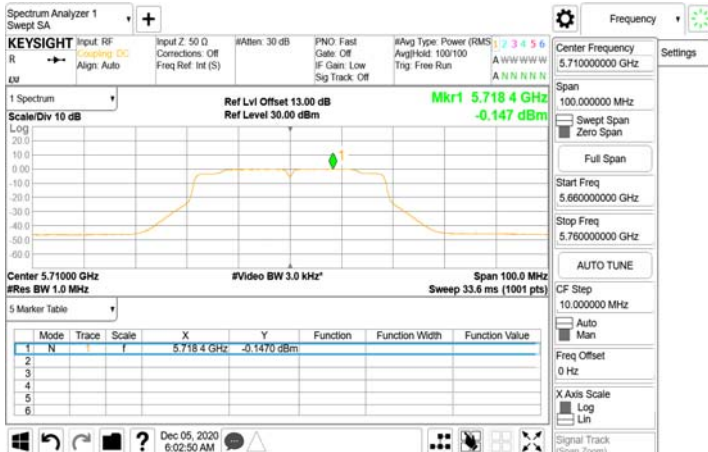
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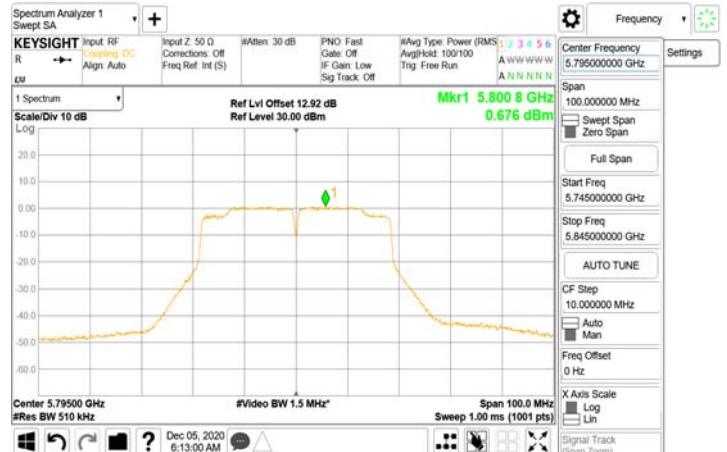
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802.11n_40MHz_Chian1_5710MHz_UNII 2C



802.11n_40MHz_Chian1_5795MHz-5795

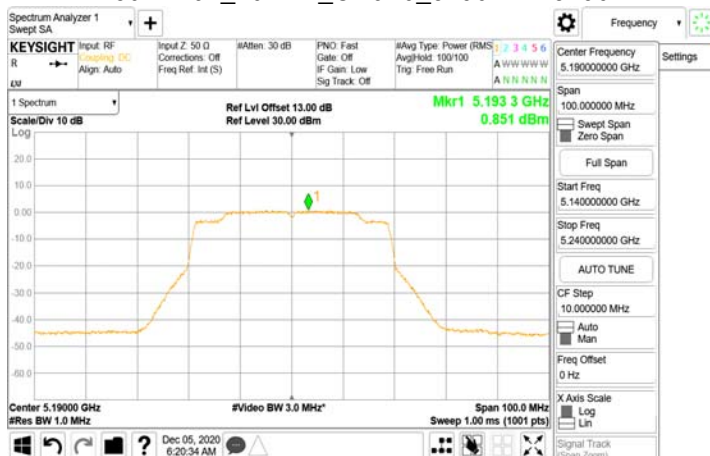


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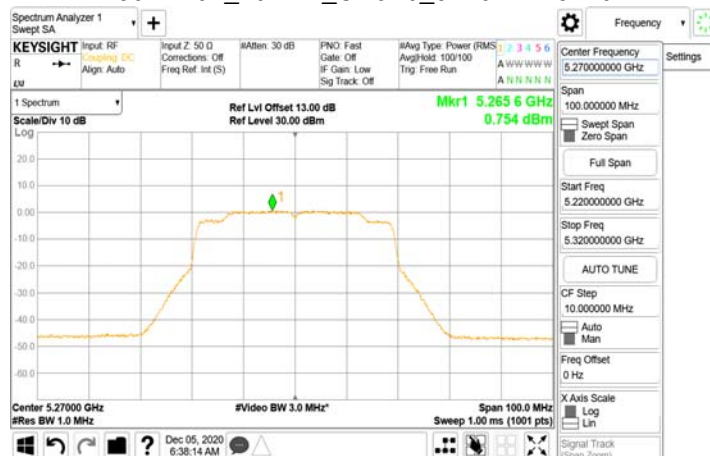
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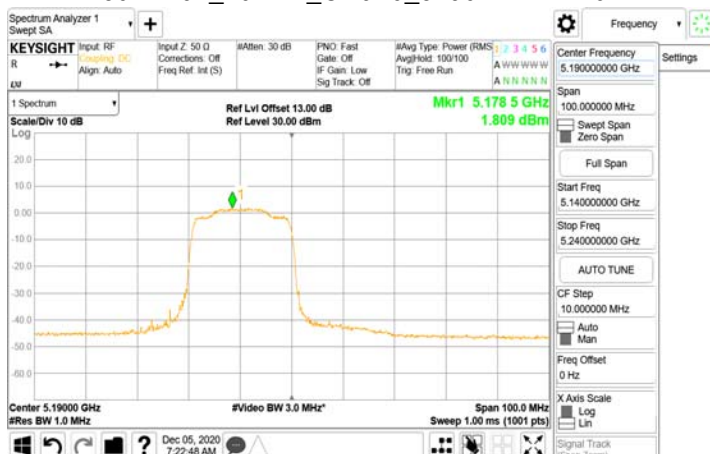
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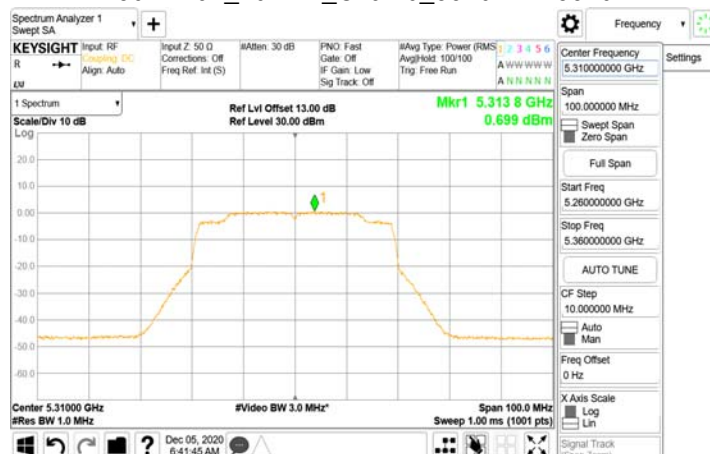
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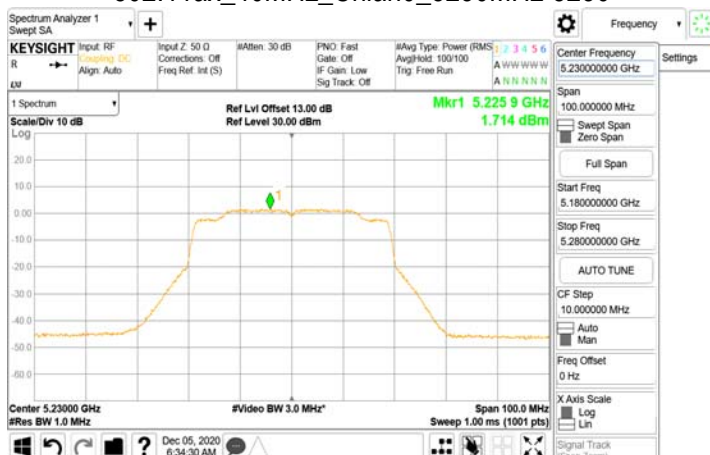
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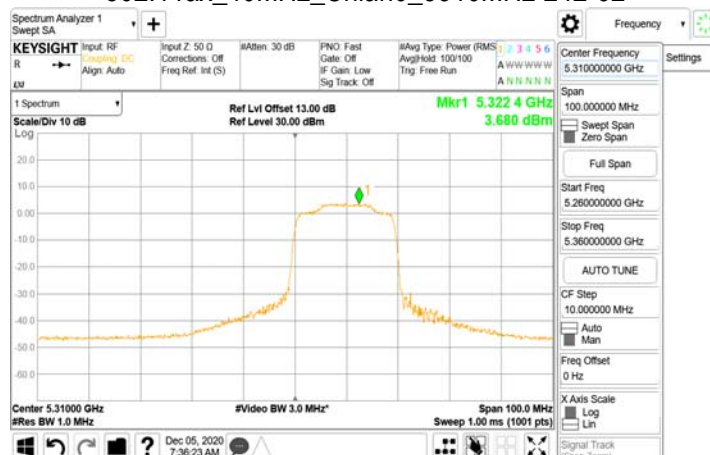
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802.11ax_40MHz_Chian0_5230MHz-5230



802.11ax_40MHz_Chian0_5310MHz-242-62

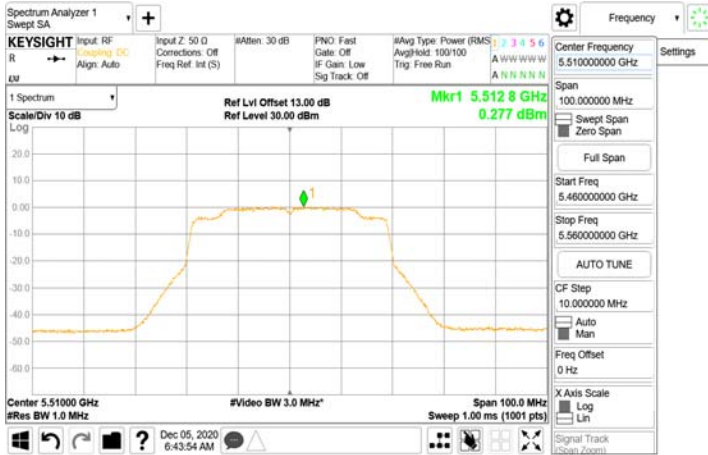


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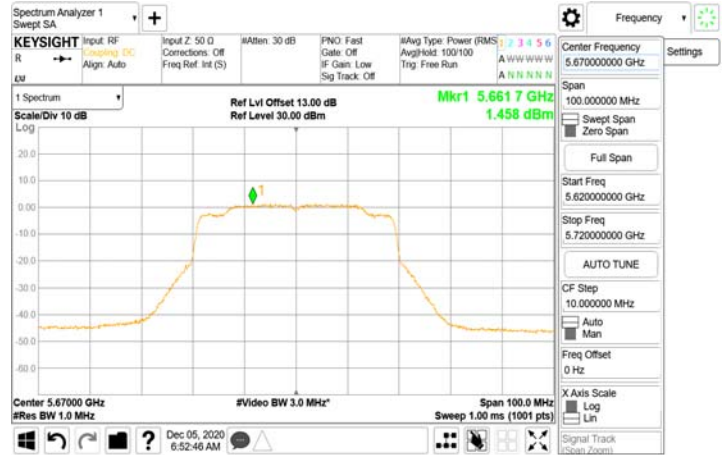
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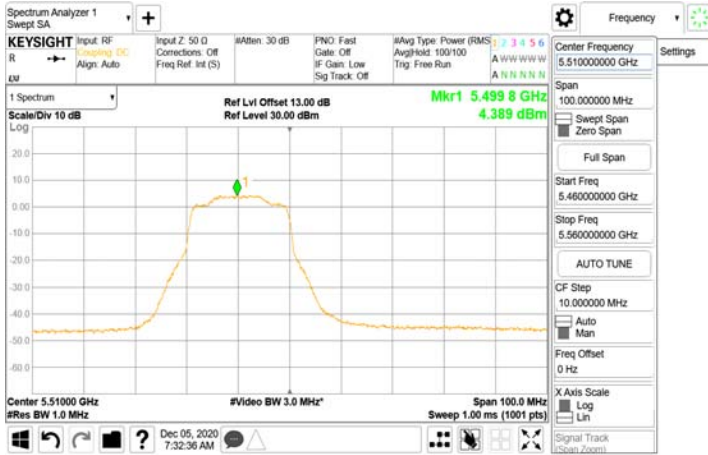
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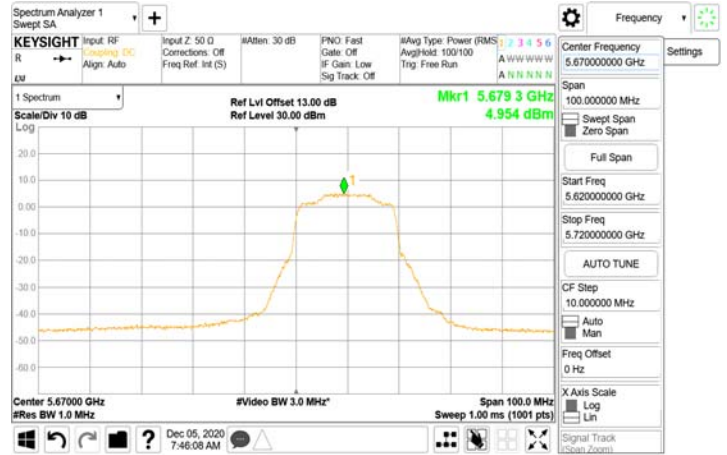
802.11ax_40MHz_Chian0_5670MHz-5670



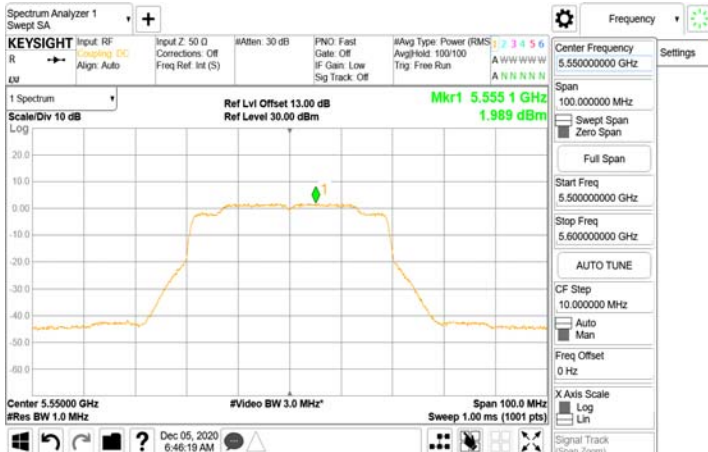
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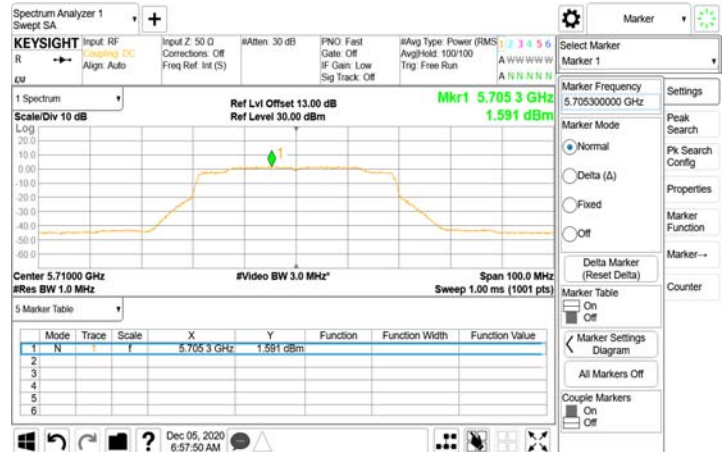
802.11ax_40MHz_Chian0_5670MHz-242-62



802.11ax_40MHz_Chian0_5550MHz-5550



802.11ax_40MHz_Chian0_5710MHz_UNII 2C

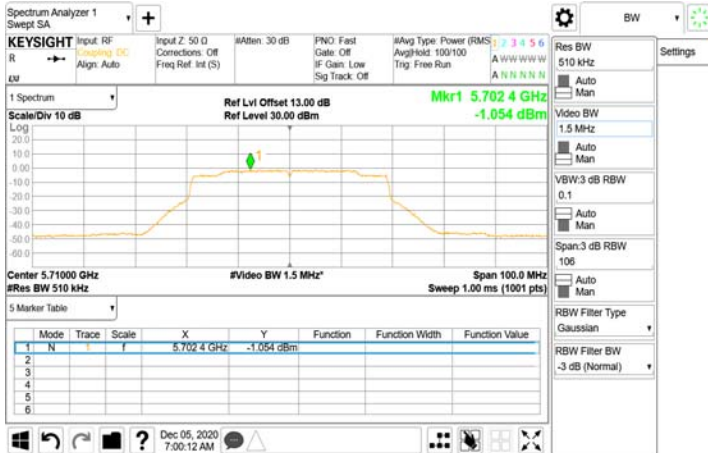


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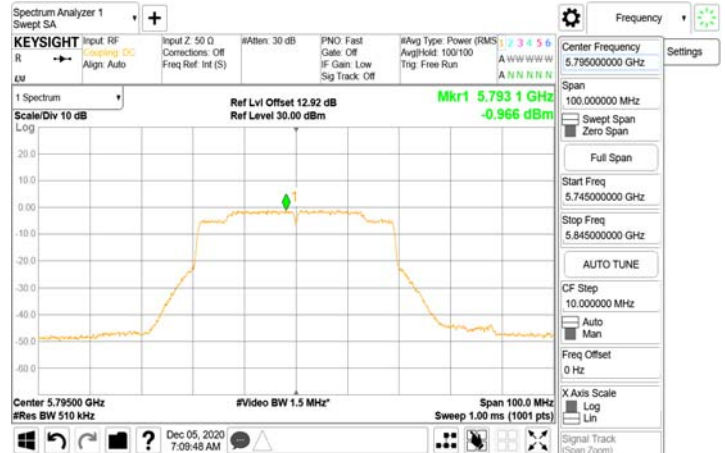
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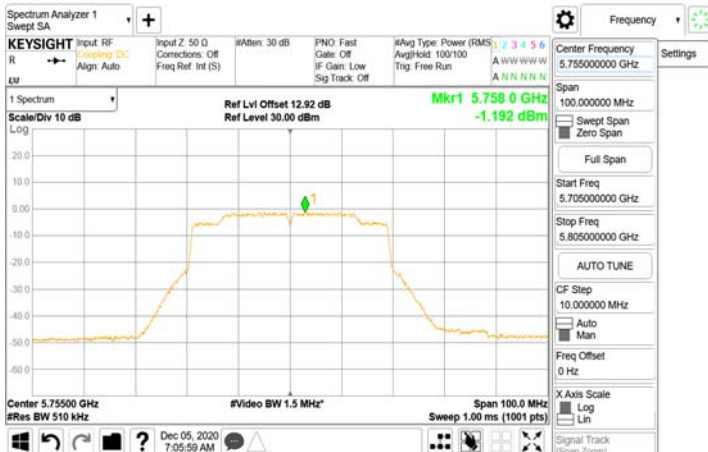
802.11ax_40MHz_Chian0_5710MHz_UNII 3



802.11ax_40MHz_Chian0_5795MHz-5795



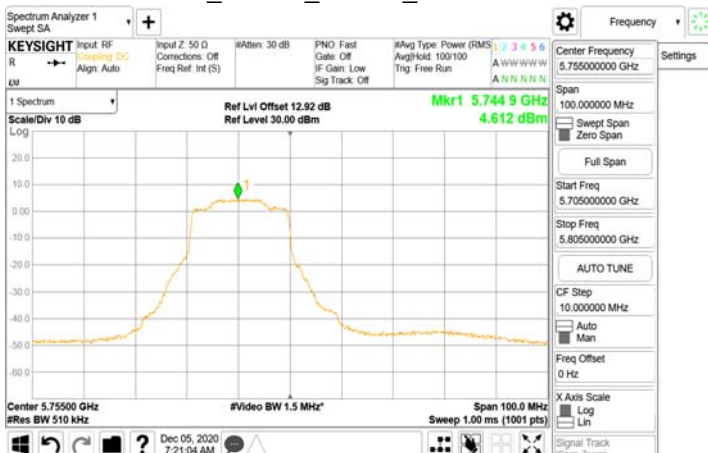
802.11ax_40MHz_Chian0_5755MHz-5755



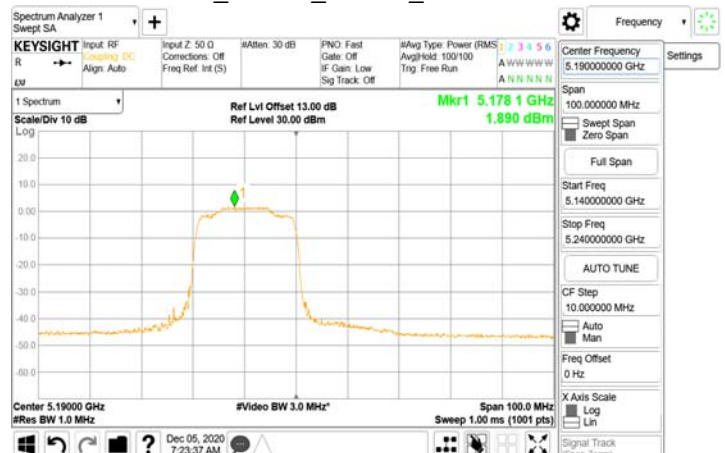
802.11ax_40MHz_Chian1_5190MHz-5190



802.11ax_40MHz_Chian0_5755MHz-242-61



802.11ax_40MHz_Chian1_5190MHz-242-61

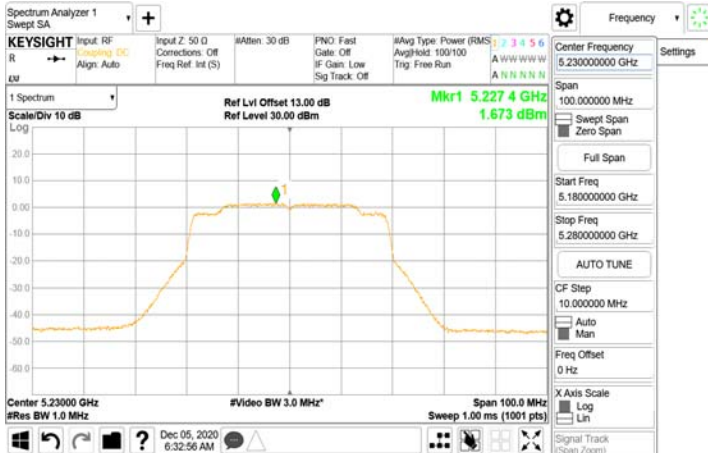


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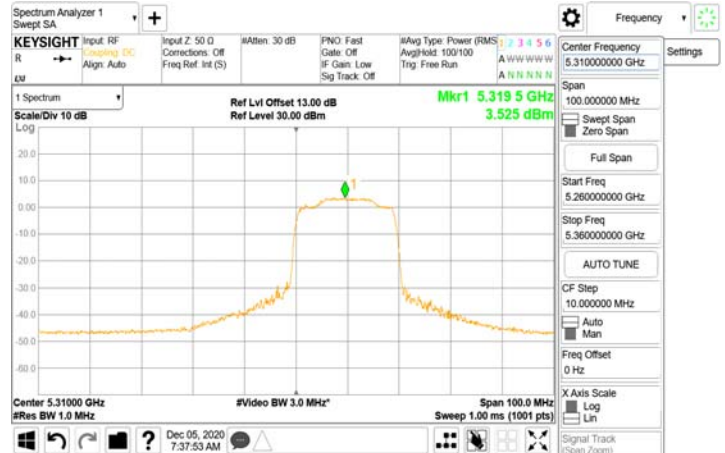
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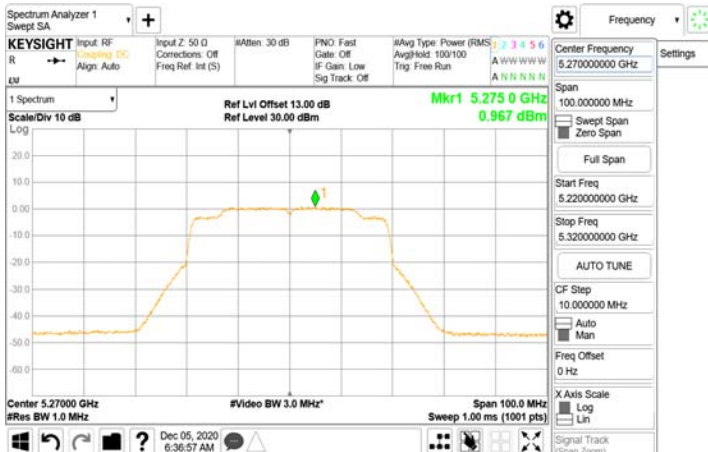
802.11ax_40MHz_Chian1_5230MHz-5230



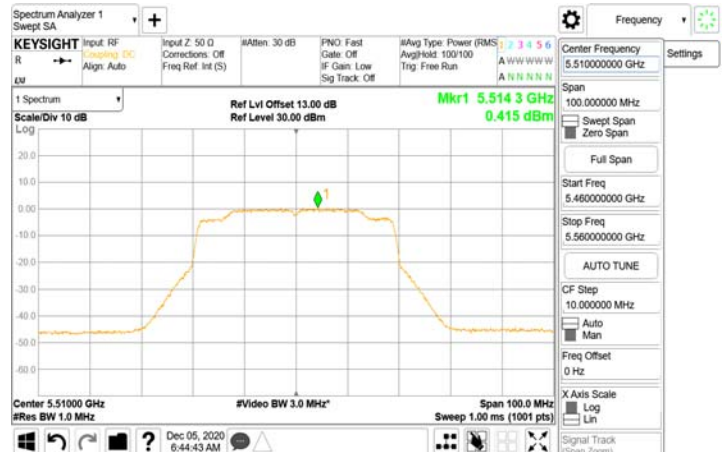
802.11ax_40MHz_Chian1_5310MHz-242-62



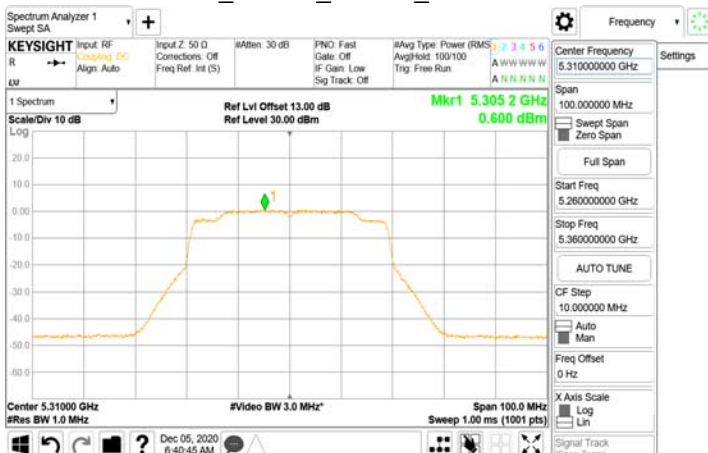
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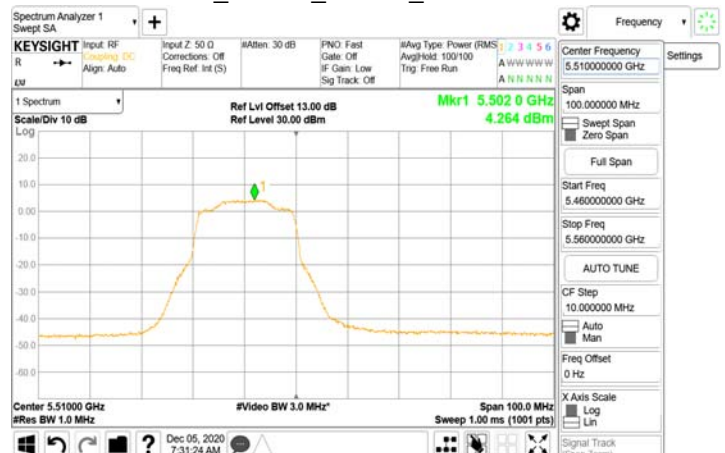
802.11ax_40MHz_Chian1_5510MHz-5510



802.11ax_40MHz_Chian1_5310MHz-5310



802.11ax_40MHz_Chian1_5510MHz-242-61

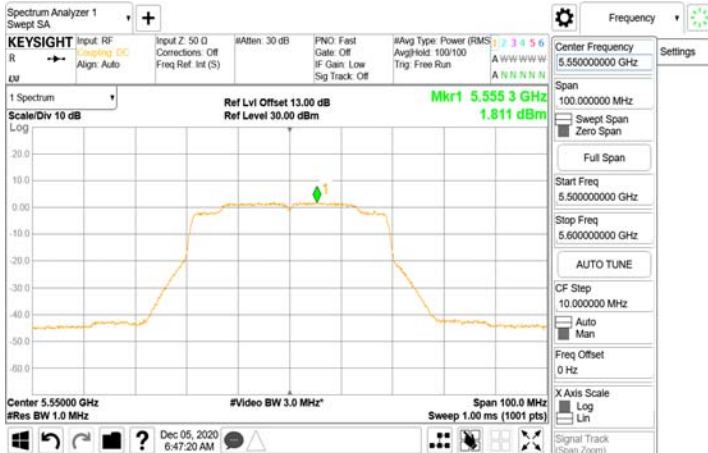


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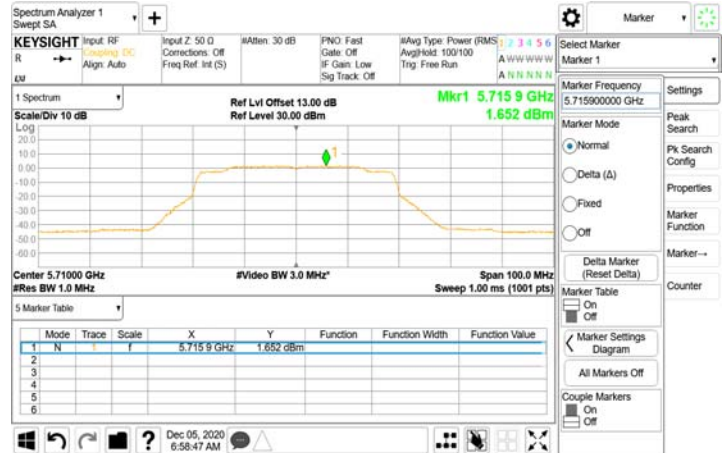
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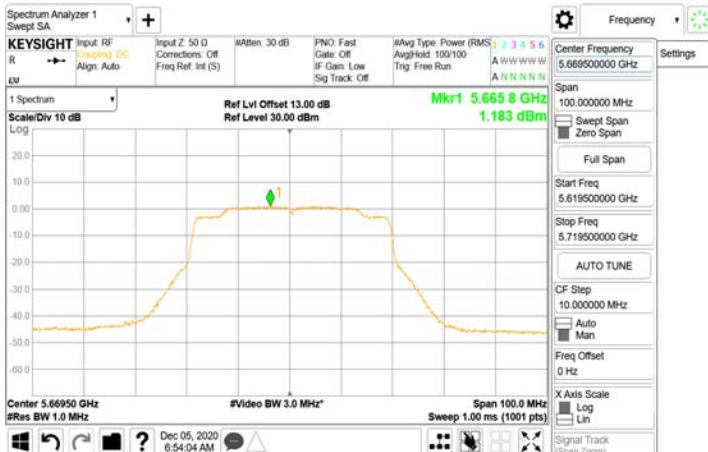
802.11ax_40MHz_Chian1_5550MHz-5550



802.11ax_40MHz_Chian1_5710MHz_UNII 2C



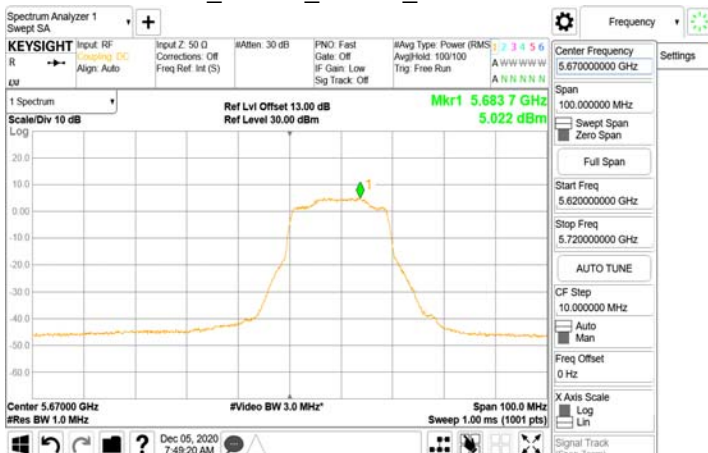
802.11ax_40MHz_Chian1_5670MHz-5670



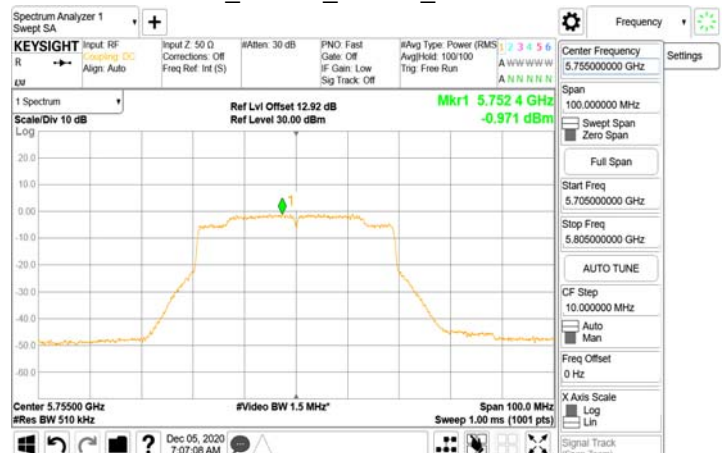
802.11ax_40MHz_Chian1_5710MHz_UNII 3



802.11ax_40MHz_Chian1_5670MHz-242-62



802.11ax_40MHz_Chian1_5755MHz-5755

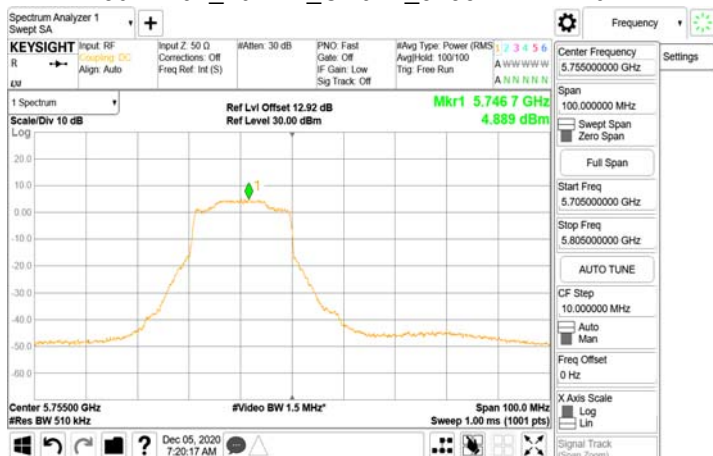


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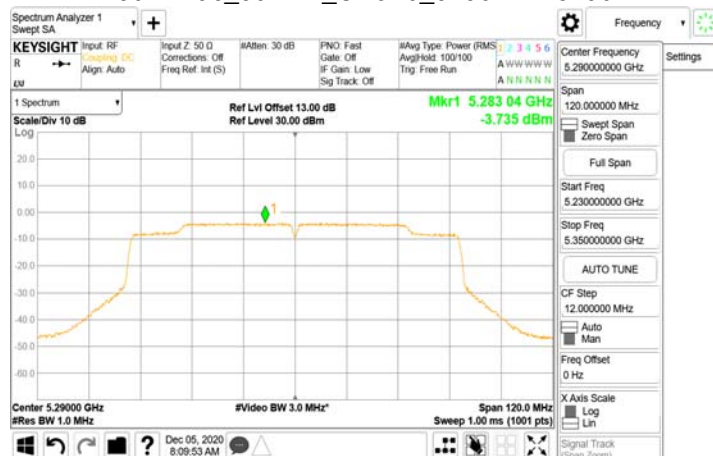
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802.11ax_40MHz_Chian1_5755MHz-242-61



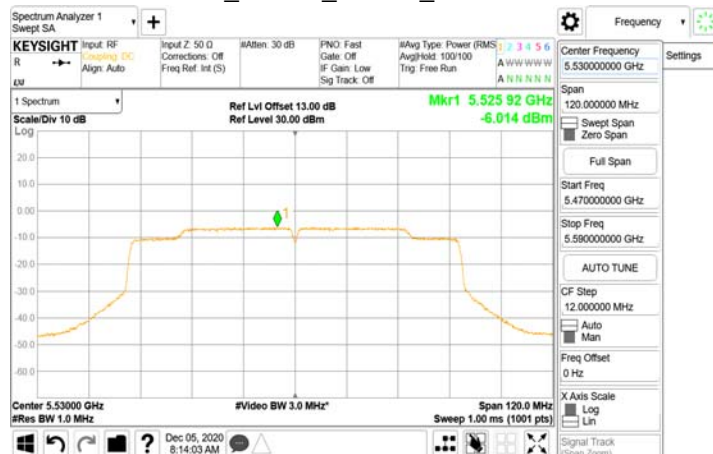
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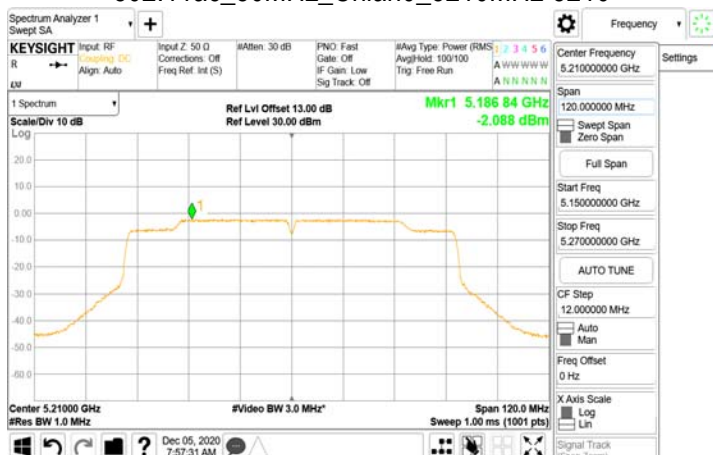
802.11ax_40MHz_Chian1_5795MHz-5795



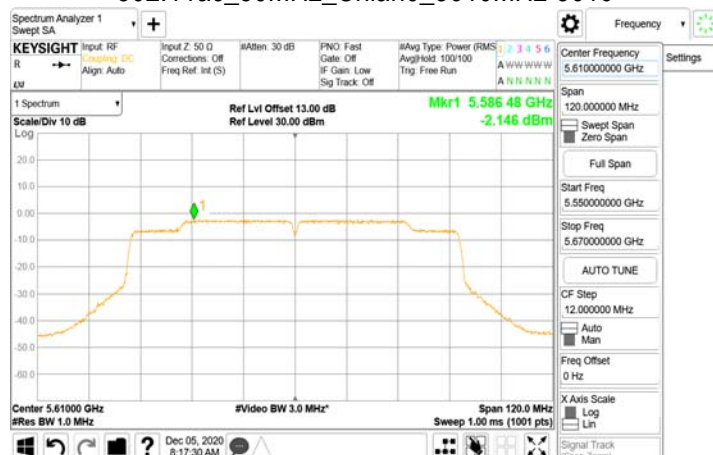
802.11ac_80MHz_Chian0_5530MHz-5530



802.11ac_80MHz_Chian0_5210MHz-5210



802.11ac_80MHz_Chian0_5610MHz-5610

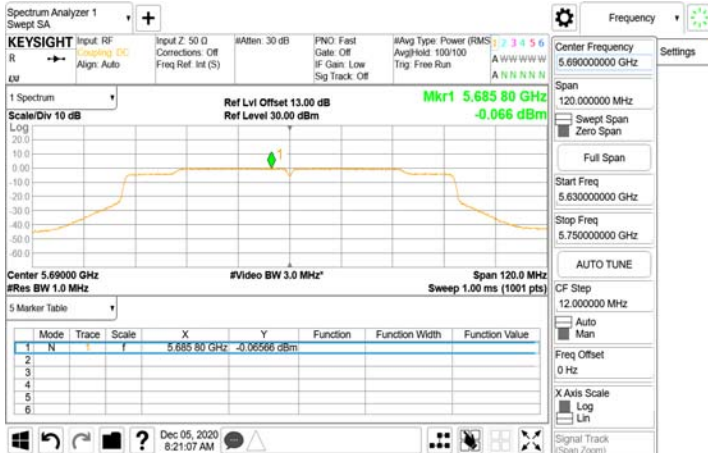


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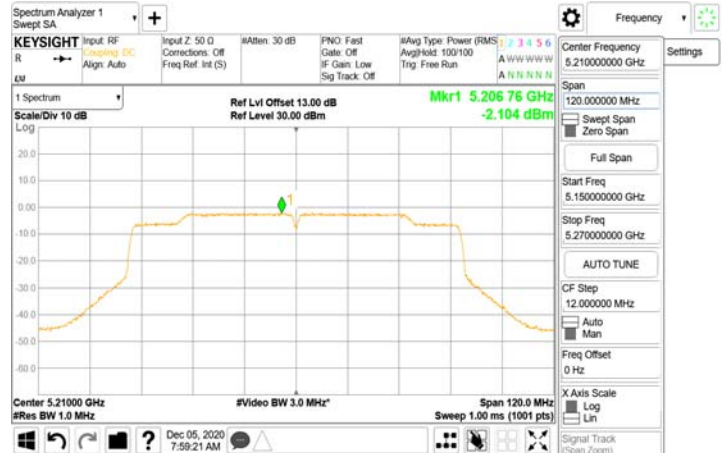
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802.11ac_80MHz_Chian0_5690MHz_UNII 2C



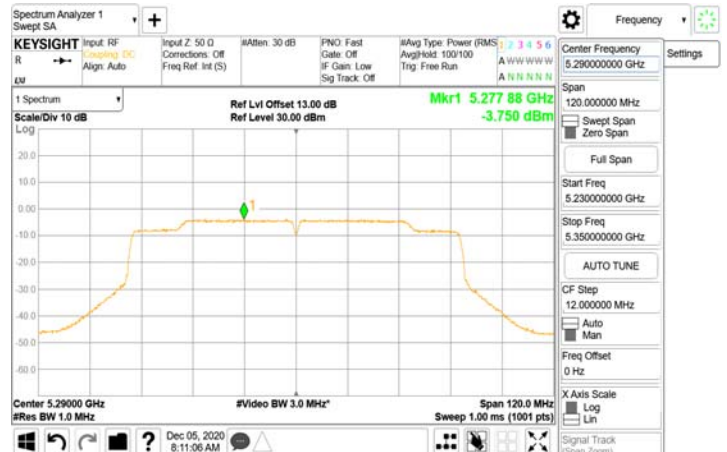
802.11ac_80MHz_Chian1_5210MHz-5210



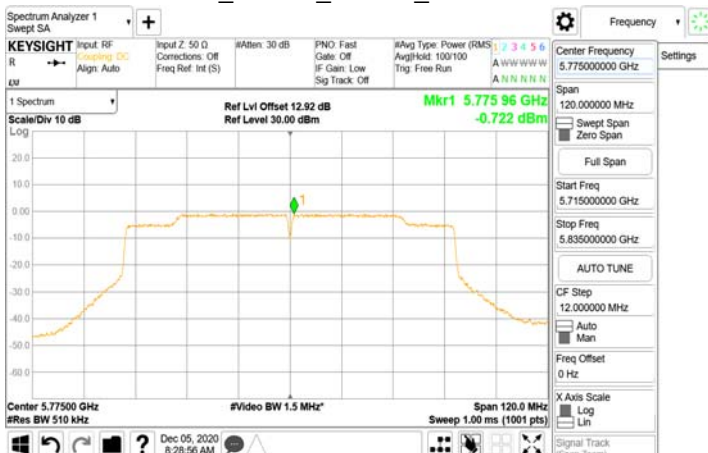
802.11ac_80MHz_Chian0_5690MHz_UNII 3



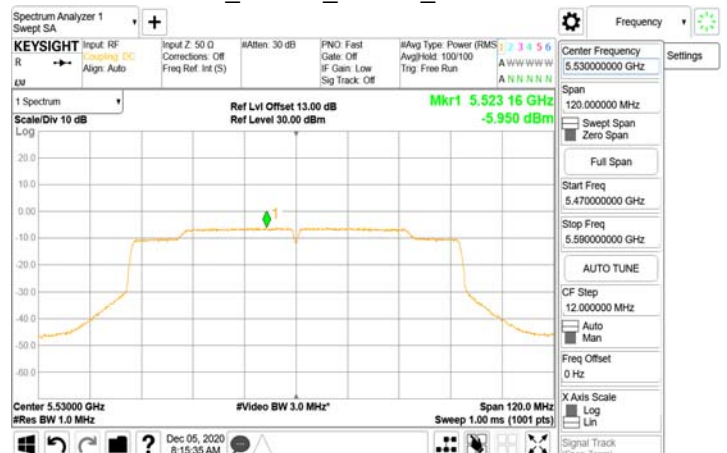
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802.11ac_80MHz_Chian0_5775MHz-5775



802.11ac_80MHz_Chain1_5530MHz-5530

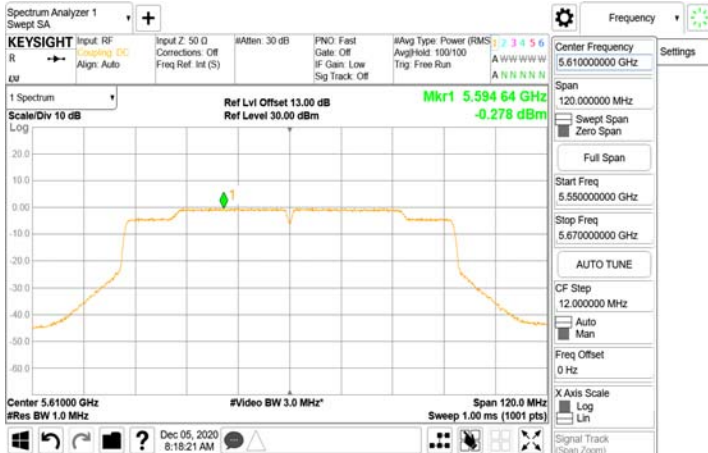


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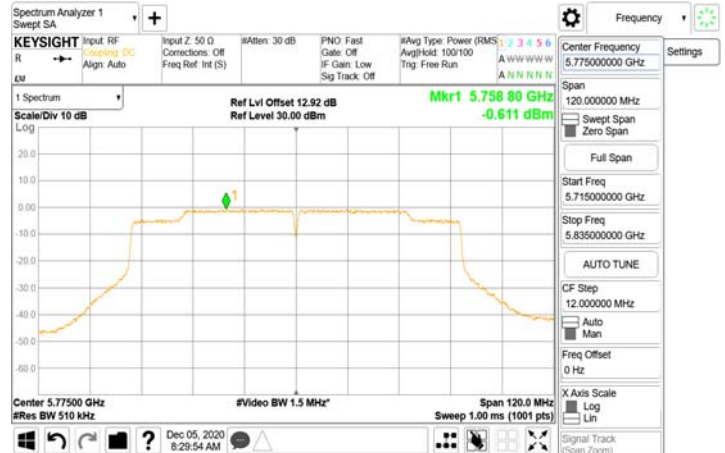
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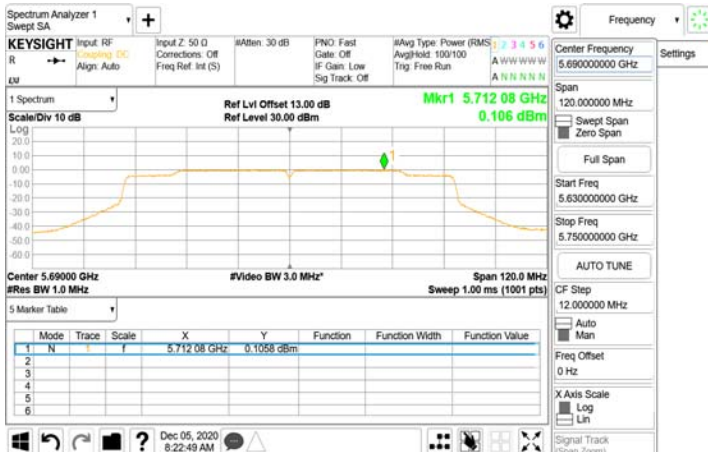
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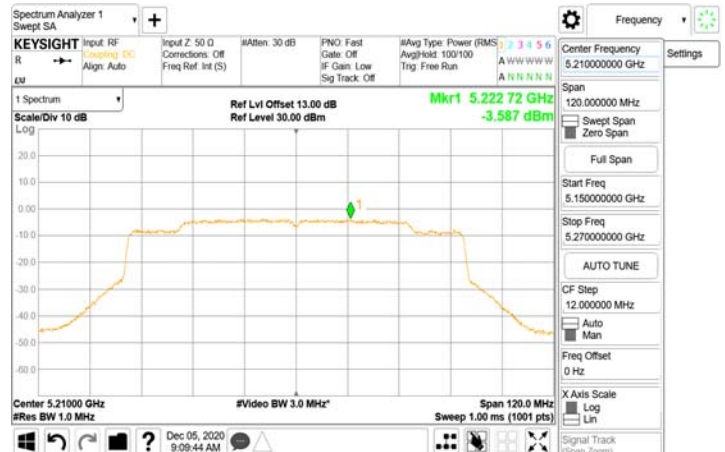
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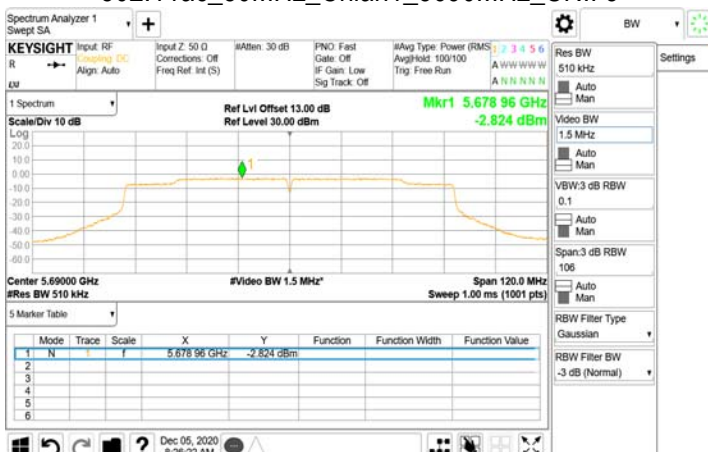
802.11ac_80MHz_Chian1_5690MHz_UNII 2C



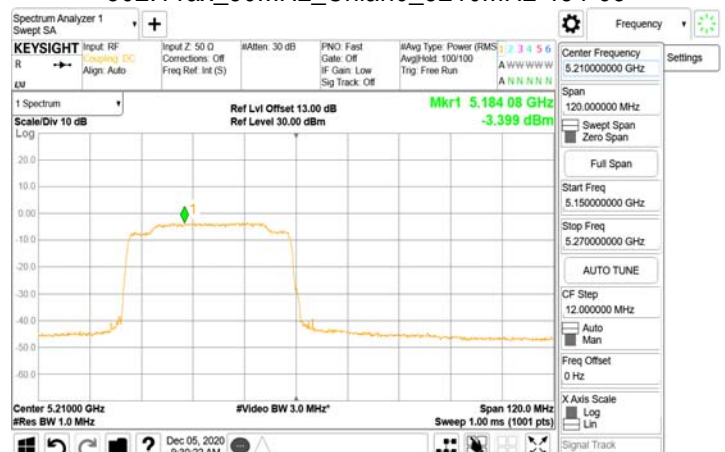
802.11ax_80MHz_Chian0_5210MHz-5210



802.11ac_80MHz_Chian1_5690MHz_UNII 3



802.11ax_80MHz_Chian0_5210MHz-484-65

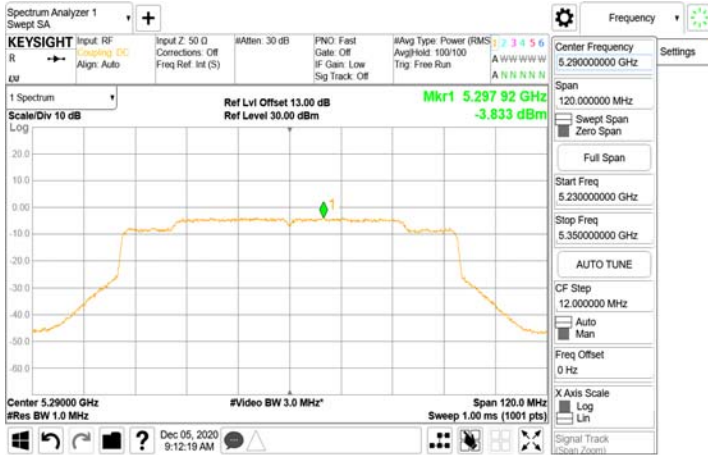


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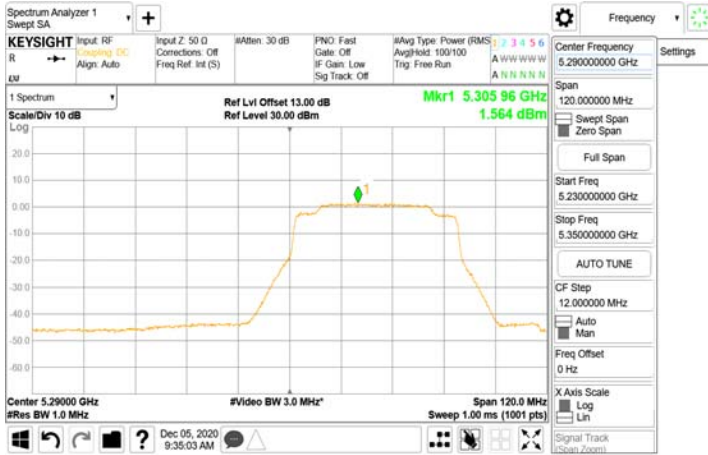
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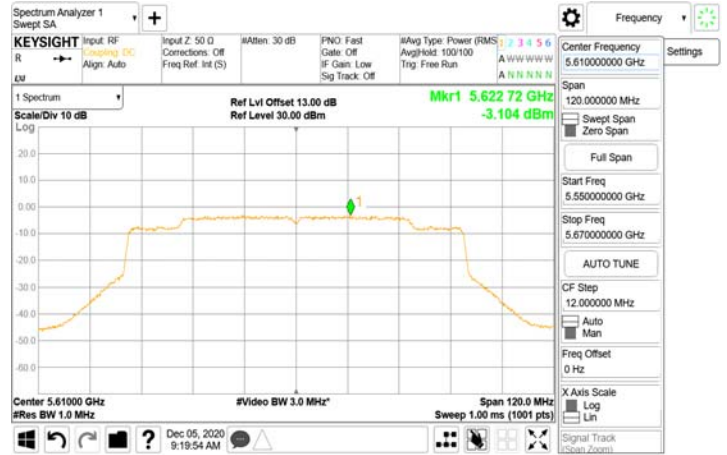
802.11ax_80MHz_Chian0_5530MHz-484-65



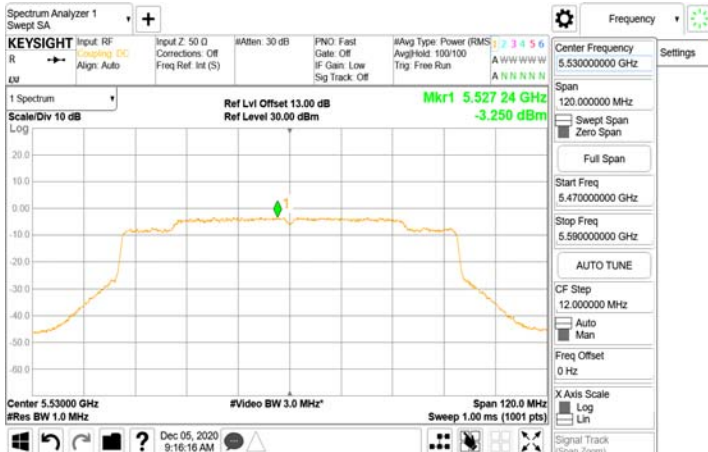
802.11ax_80MHz_Chian0_5290MHz-484-66



802.11ax_80MHz_Chian0_5610MHz-5610



802.11ax_80MHz_Chian0_5530MHz-5530



802.11ax_80MHz_Chian0_5690MHz_UNII 2C

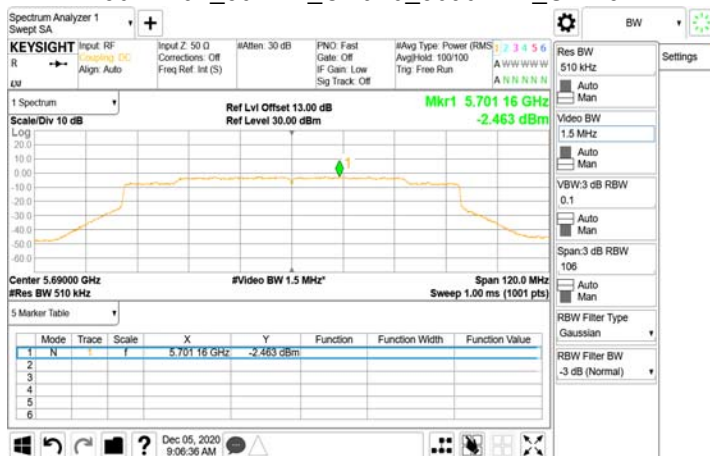


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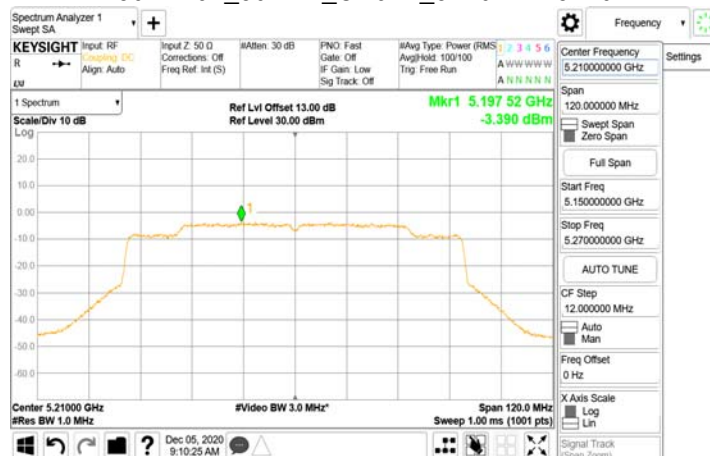
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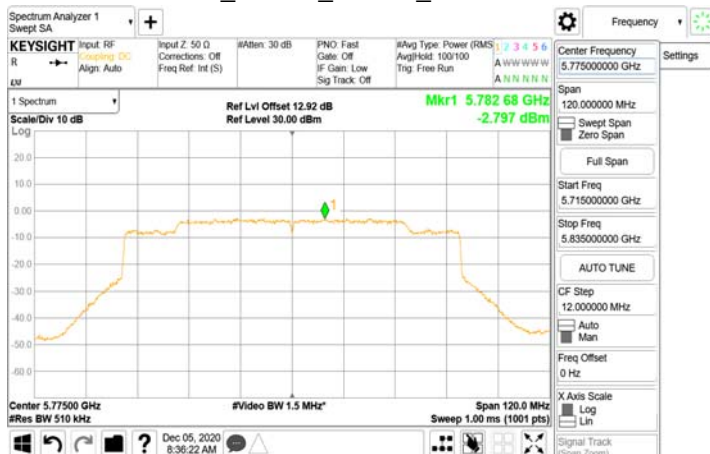
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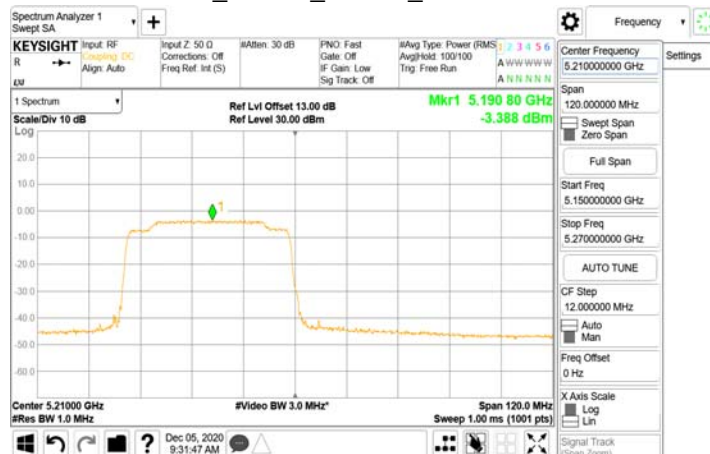
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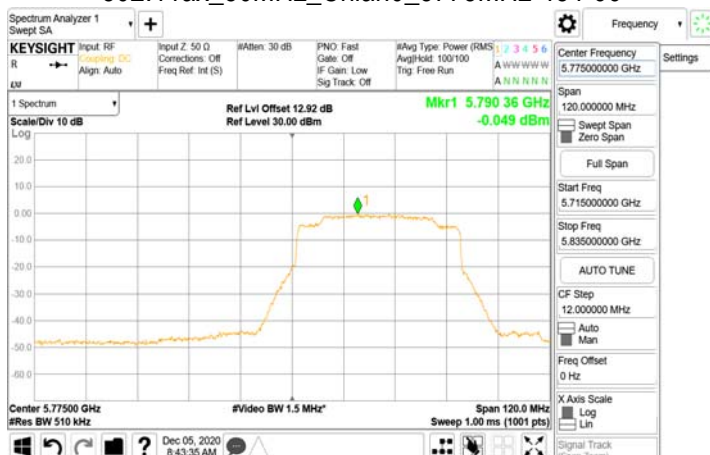
802.11ax_80MHz_Chian0_5775MHz-5775



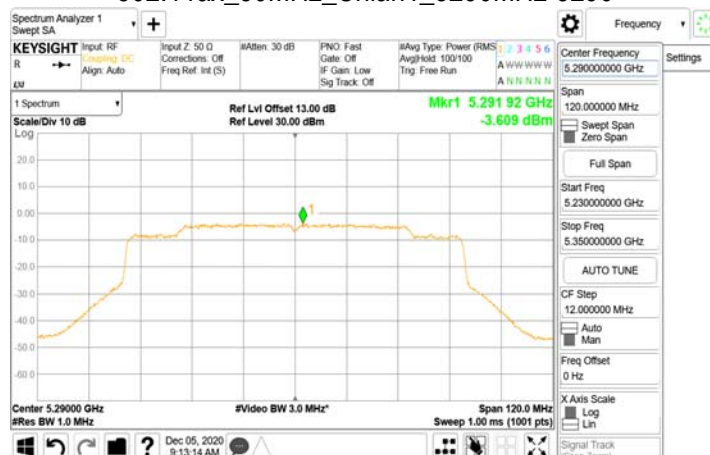
802.11ax_80MHz_Chian1_5210MHz-484-65



802.11ax_80MHz_Chian0_5775MHz-484-66



802.11ax_80MHz_Chian1_5290MHz-5290

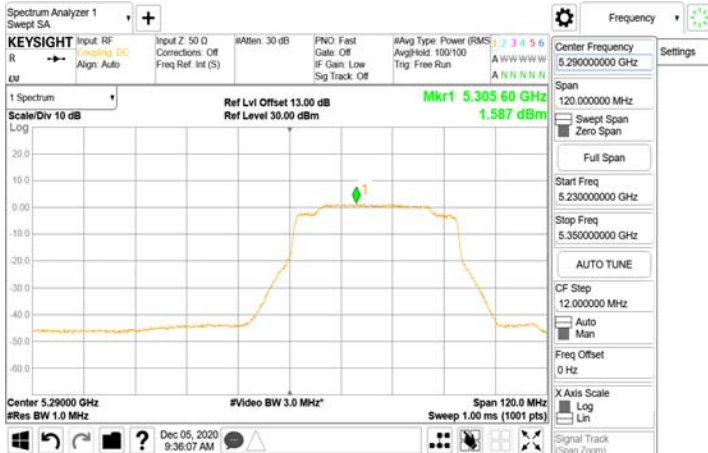


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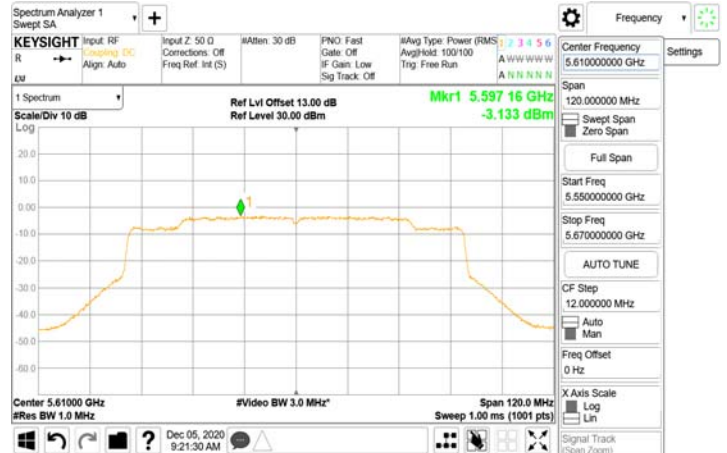
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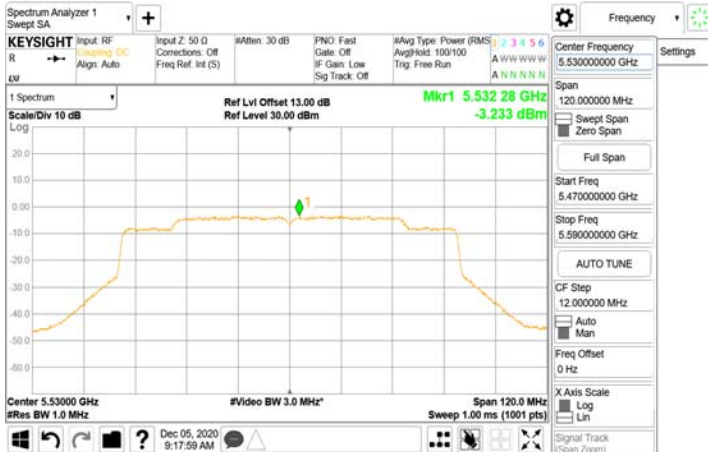
802.11ax_80MHz_Chain1_5290MHz-484-66



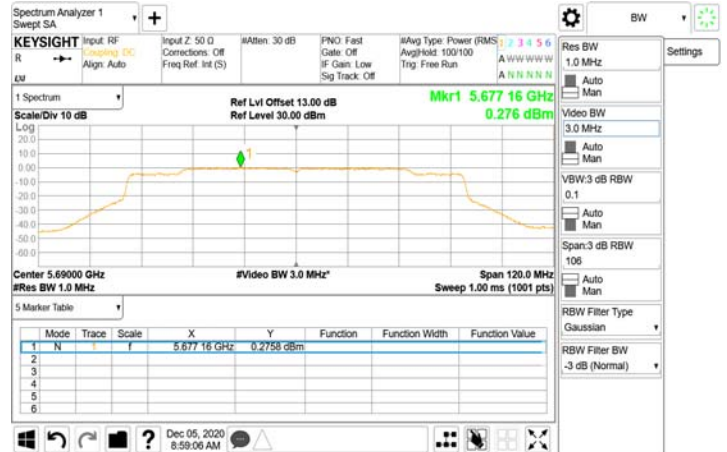
802.11ax_80MHz_Chain1_5610MHz-5610



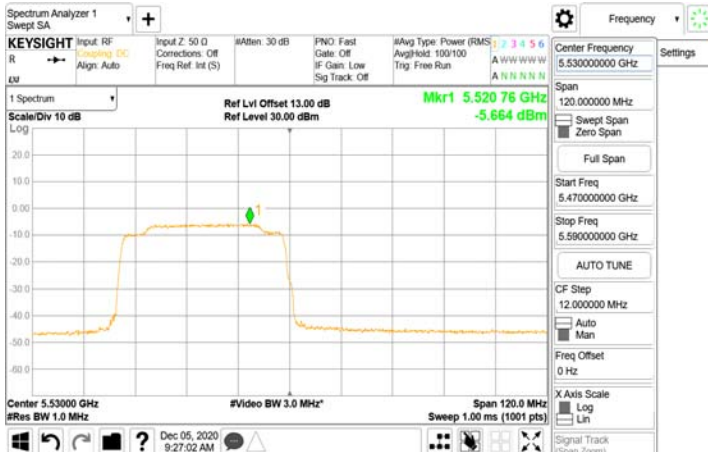
802.11ax_80MHz_Chain1_5530MHz-5530



802.11ax_80MHz_Chian1_5690MHz_UNII 2C



802.11ax_80MHz_Chian1_5530MHz-484-65



802.11ax_80MHz_Chian1_5690MHz_UNII 3



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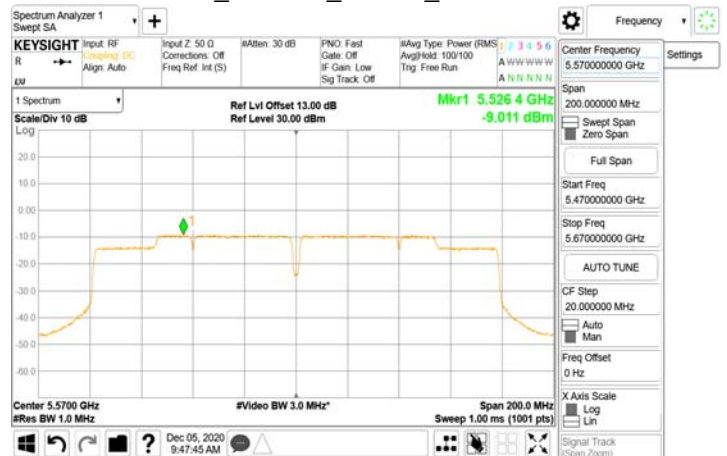
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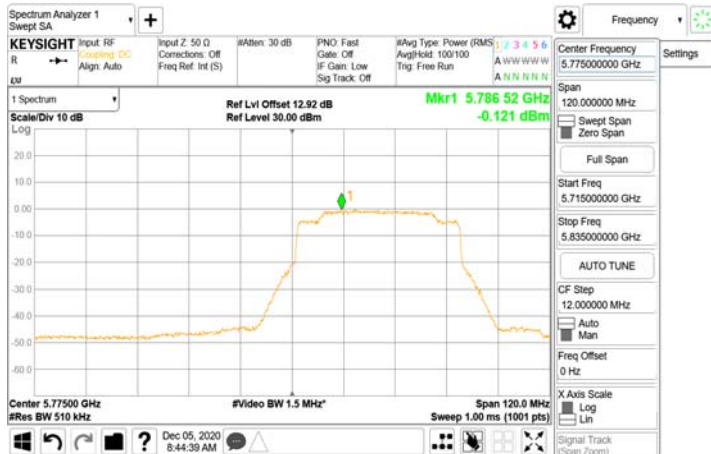
802.11ax_80MHz_Chian1_5775MHz-5775



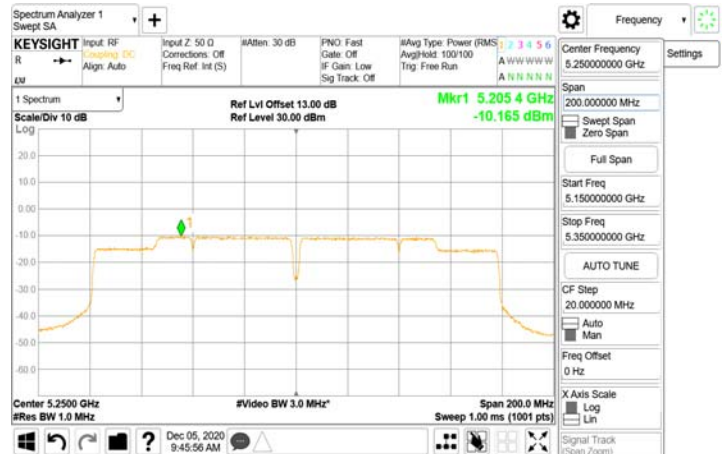
802.11ac_160MHz_Chian0_5570MHz-5570



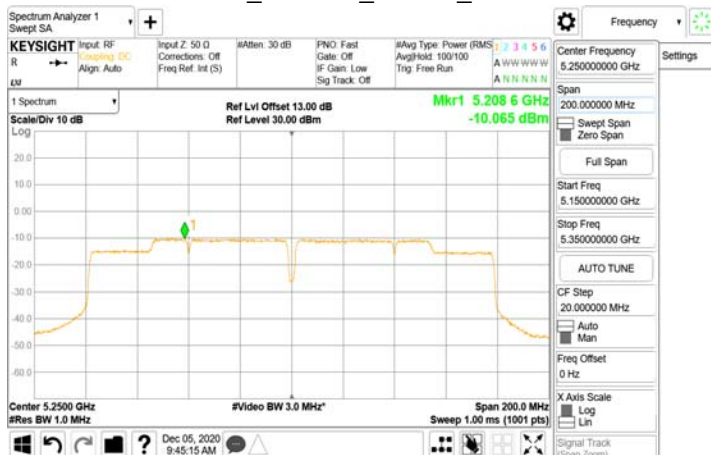
802.11ax_80MHz_Chian1_5775MHz-484-66



802.11ac_160MHz_Chian1_5250MHz



802.11ac_160MHz_Chian0_5250MHz



802.11ac_160MHz_Chian1_5570MHz-5570

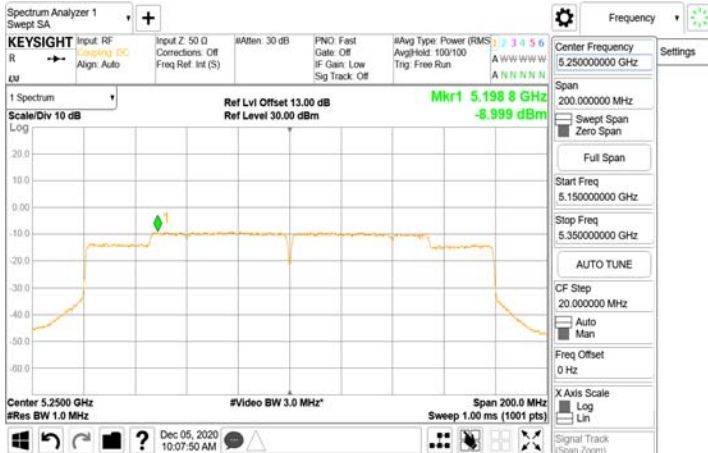


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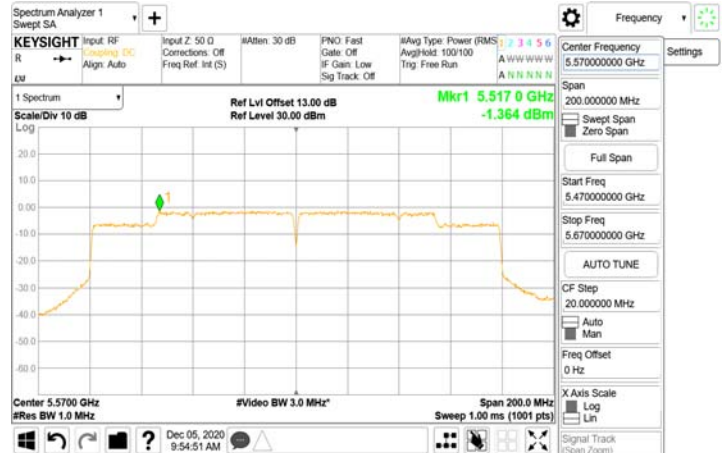
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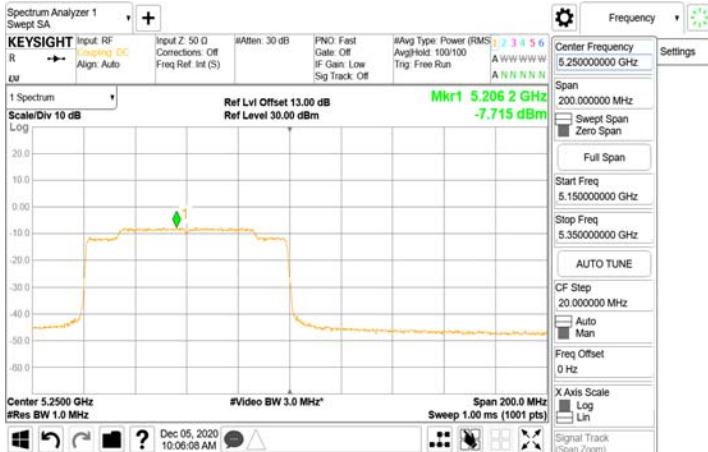
802.11ax_160MHz_Chian0_5250MHz



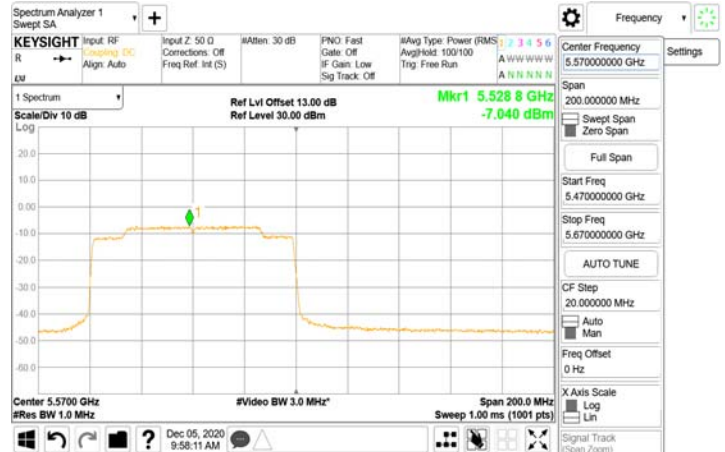
802.11ax_160MHz_Chian0_5570MHz



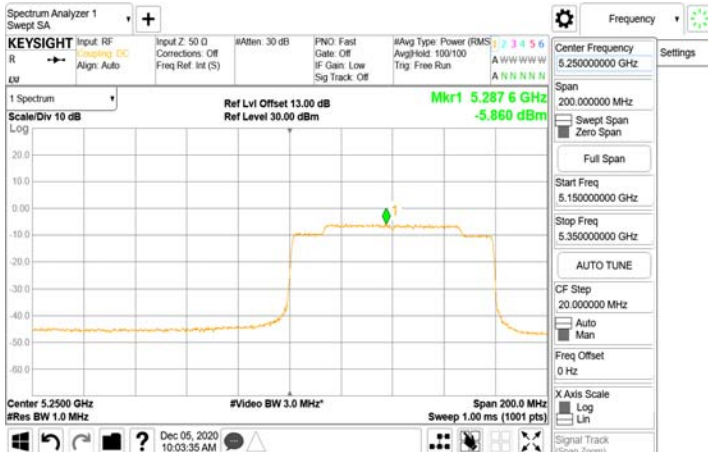
802.11ax_160MHz_Chian0_5250MHz -996-67



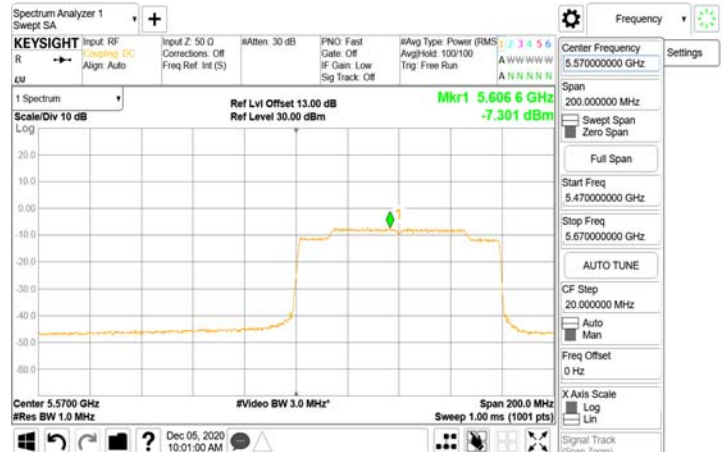
802.11ax_160MHz_Chian0_5570MHz-996-67



802.11ax_160MHz_Chian0_5250MHz -996-S67



802.11ax_160MHz_Chian0_5570MHz-996-S67

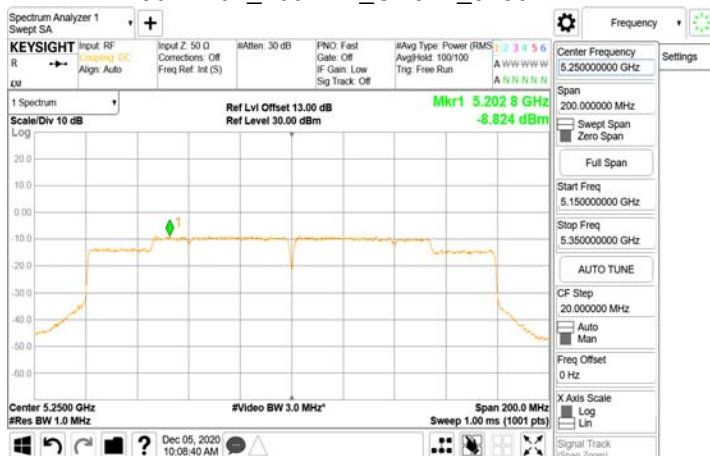


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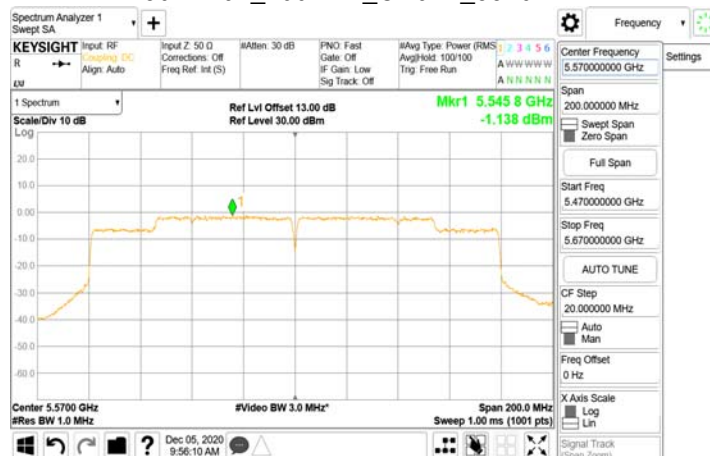
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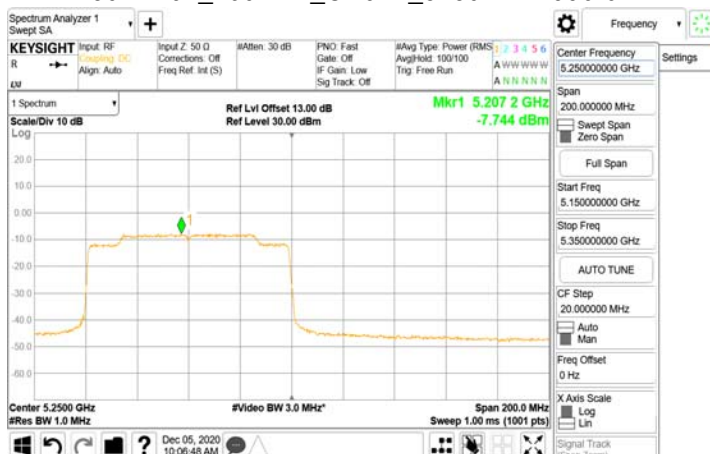
802.11ax_160MHz_Chian1_5250MHz



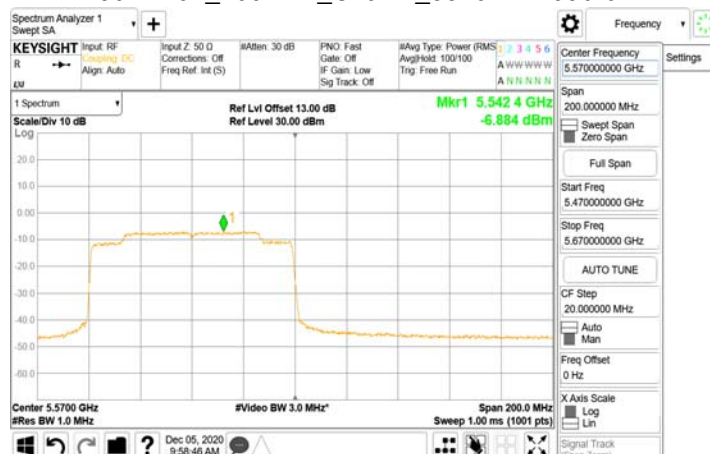
802.11ax_160MHz_Chian1_5570MHz



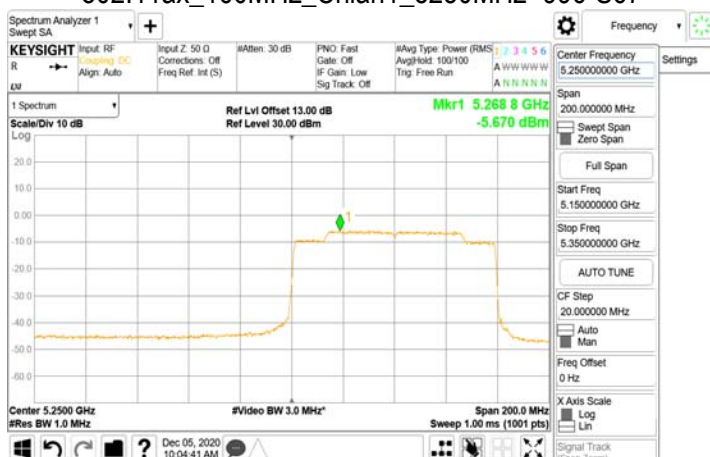
802.11ax_160MHz_Chian1_5250MHz -996-67



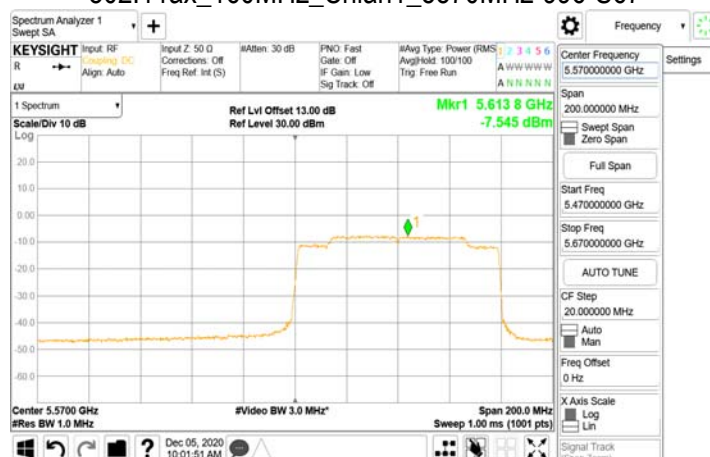
802.11ax_160MHz_Chian1_5570MHz-996-67



802.11ax_160MHz_Chian1_5250MHz -996-S67



802.11ax_160MHz_Chian1_5570MHz-996-S67



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E^2 d^2) / 30$, where E is the field in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

SGS SAC-III					
Name of Equip-ment	Manufacturer	Model	Serial Num-ber	Calibration Date	Calibration 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

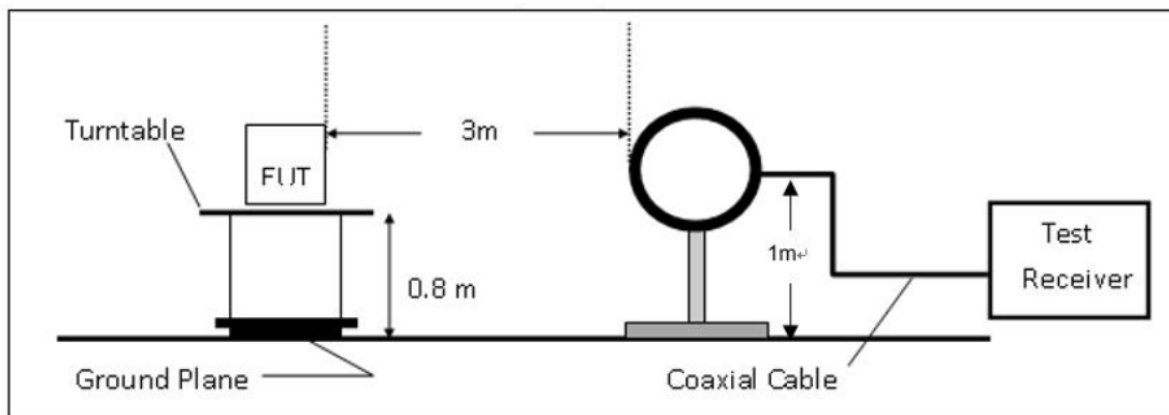
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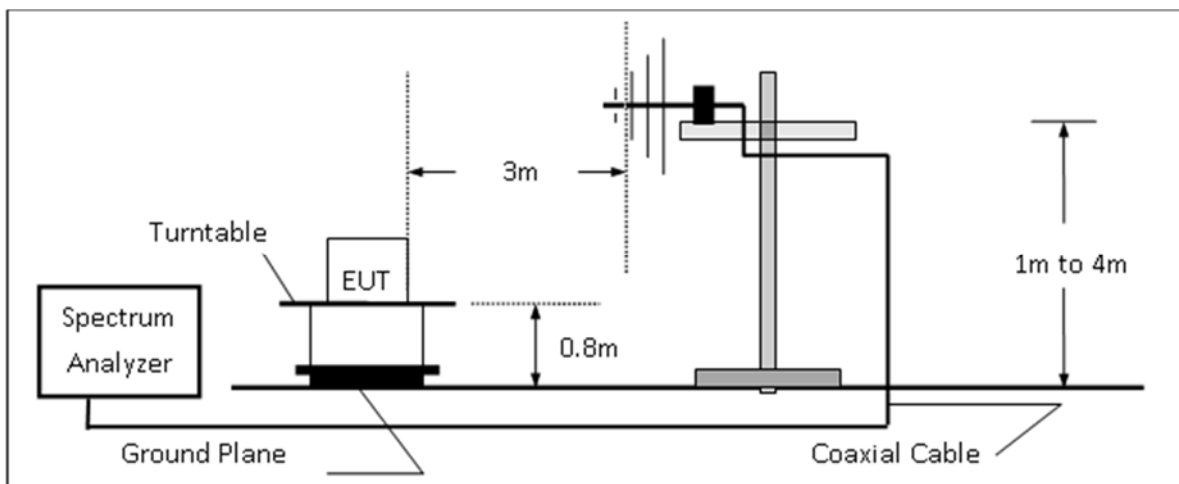
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11.3 Test SET-UP

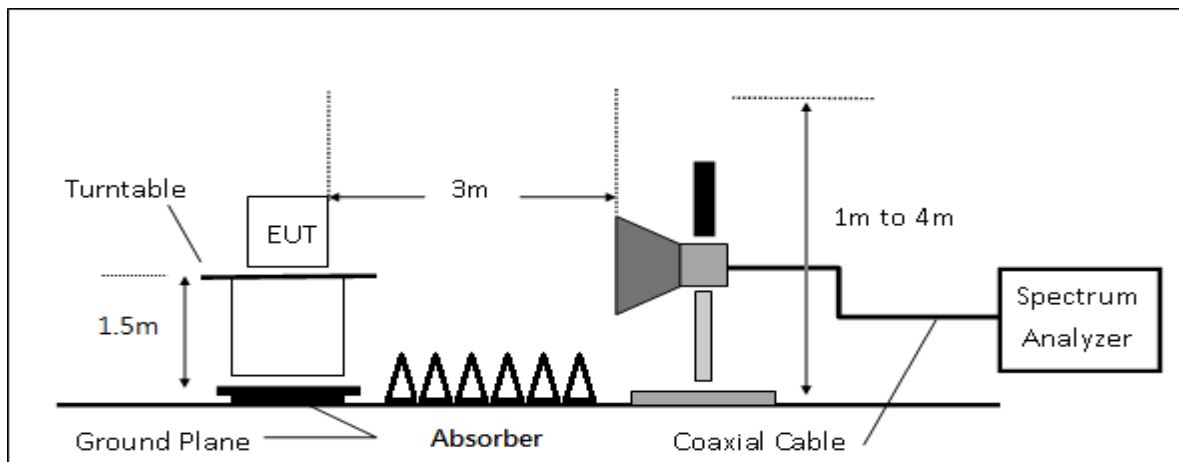
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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. At frequency above 1 GHz, Set the spectrum analyzer:
Set the spectrum analyzer as RBW=1 MHz, VBW as referring to section 7.1 of this report for Average Detector at frequency above 1 GHz.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency 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.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) was not reported.

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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Mode: Chain 0

Report Number :E2/2020/70034

Operation Mode :802.11a / Band 1

Test Frequency :5220 MHz

Test Mode :TX CH MID

EUT Pol :NB Plane

Ant Path / EUT :Chain 0 / Config 1

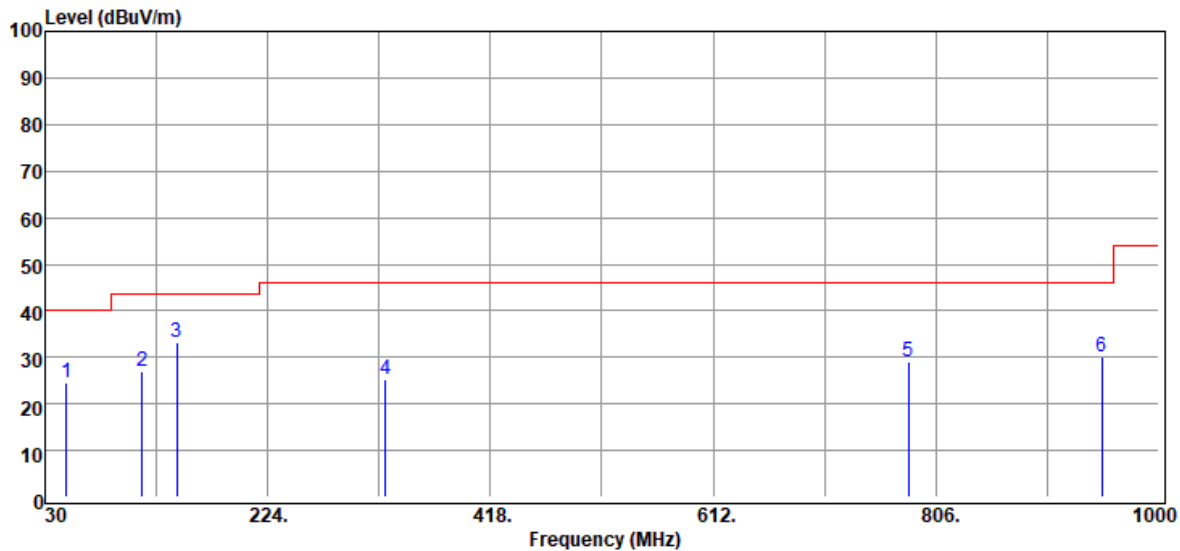
Test Site :966 Chamber D

Test Date :2020-07-15

Temp./Humi. :22.7/61

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
48.43	Peak	41.48	-16.86	24.62	40.00	-15.38
114.39	Peak	46.08	-19.17	26.91	43.50	-16.59
144.46	Peak	49.84	-16.66	33.18	43.50	-10.32
326.82	Peak	39.86	-14.44	25.42	46.00	-20.58
781.75	Peak	35.32	-6.28	29.04	46.00	-16.96
950.53	Peak	34.53	-4.53	30.00	46.00	-16.00

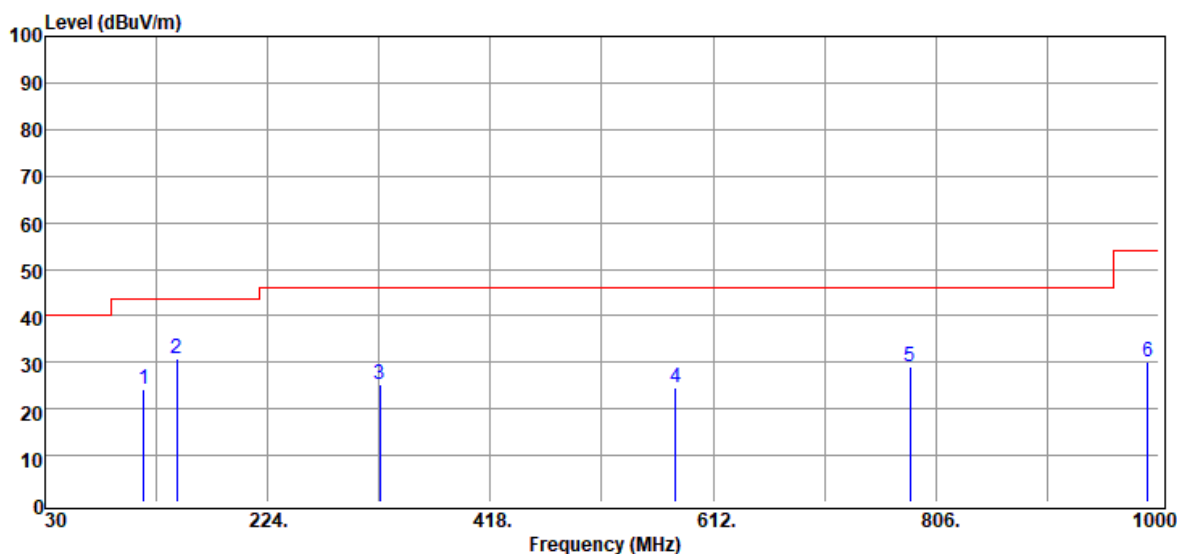
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.7/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
116.33	Peak	43.17	-19.00	24.17	43.50	-19.33
144.46	Peak	47.33	-16.66	30.67	43.50	-12.83
321.97	Peak	40.06	-14.70	25.36	46.00	-20.64
579.02	Peak	33.91	-9.38	24.53	46.00	-21.47
783.69	Peak	35.34	-6.21	29.13	46.00	-16.87
990.30	Peak	34.16	-4.05	30.11	54.00	-23.89

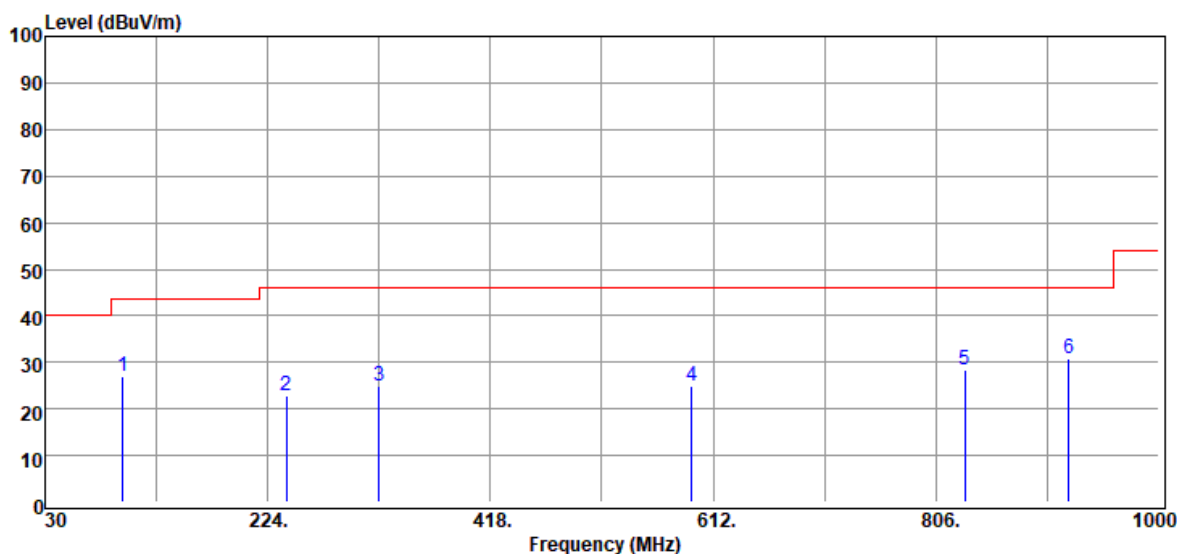
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Report Number :E2/2020/70034
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane
 Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
 Test Date :2020-07-15
 Temp./Humi. :22.7/61
 Antenna Pol. :VERTICAL
 Engineer :Kailin



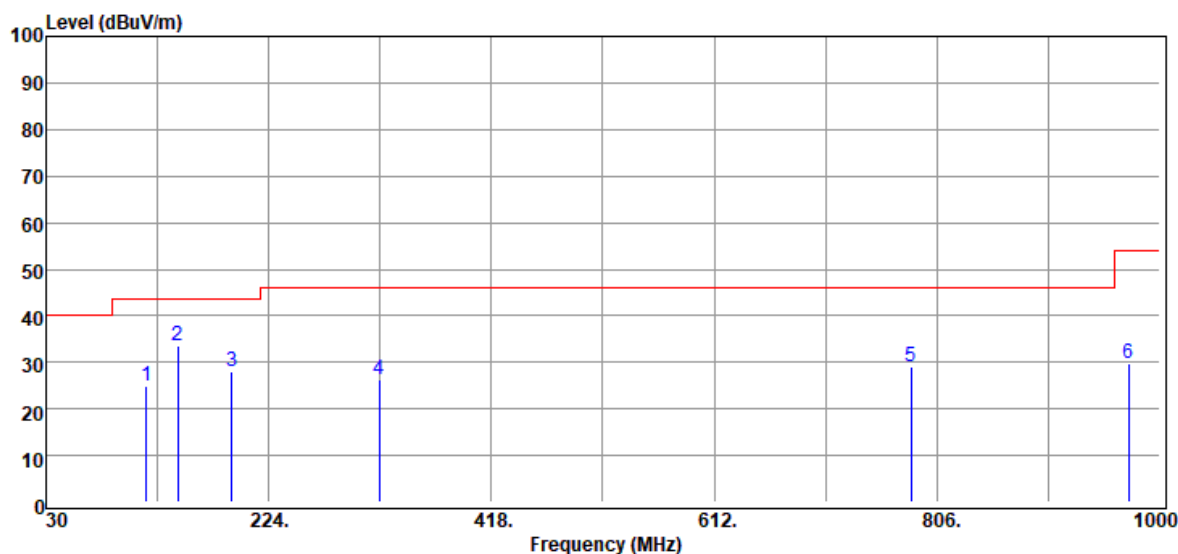
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
97.90	Peak	48.83	-21.85	26.98	43.50	-16.52
240.49	Peak	39.74	-16.97	22.77	46.00	-23.23
321.00	Peak	39.80	-14.77	25.03	46.00	-20.97
593.57	Peak	34.21	-9.13	25.08	46.00	-20.92
831.22	Peak	34.48	-6.20	28.28	46.00	-17.72
921.43	Peak	35.53	-4.77	30.76	46.00	-15.24

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Report Number	:E2/2020/70034	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 2	Test Date	:2020-07-15
Test Frequency	:5300 MHz	Temp./Humi.	:22.7/61
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:Chain 0 / Config 1		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
117.30	Peak	43.89	-18.96	24.93	43.50	-18.57
144.46	Peak	50.07	-16.66	33.41	43.50	-10.09
191.99	Peak	46.23	-18.18	28.05	43.50	-15.45
320.03	Peak	41.03	-14.84	26.19	46.00	-19.81
783.69	Peak	35.30	-6.21	29.09	46.00	-16.91
972.84	Peak	33.99	-4.11	29.88	54.00	-24.12

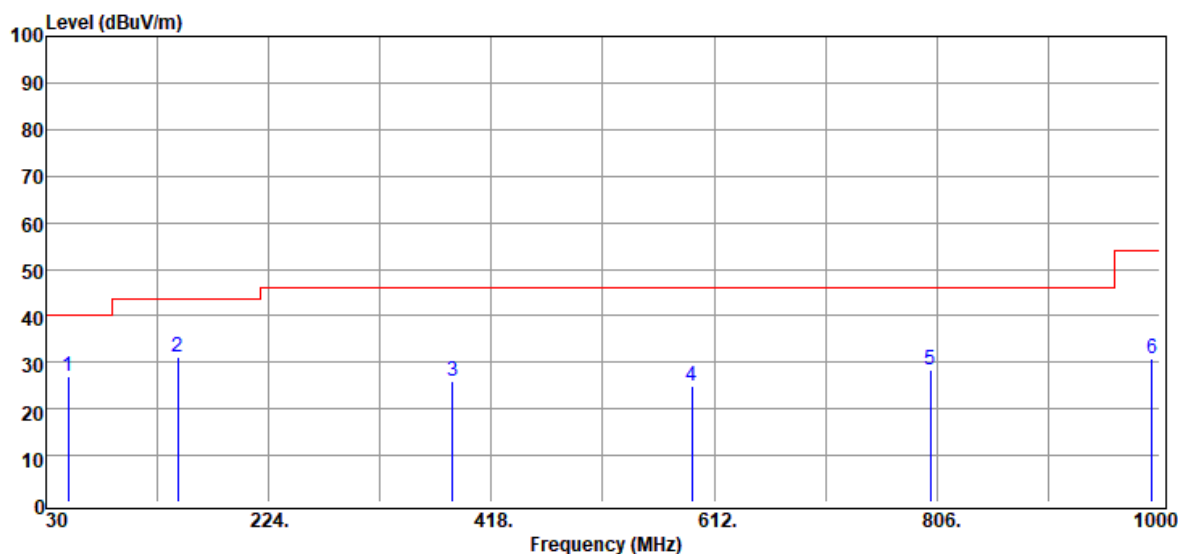
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
49.40	Peak	43.93	-16.82	27.11	40.00	-12.89
144.46	Peak	47.72	-16.66	31.06	43.50	-12.44
384.05	Peak	38.97	-13.06	25.91	46.00	-20.09
592.60	Peak	34.19	-9.22	24.97	46.00	-21.03
800.18	Peak	34.45	-6.22	28.23	46.00	-17.77
993.21	Peak	35.05	-4.09	30.96	54.00	-23.04

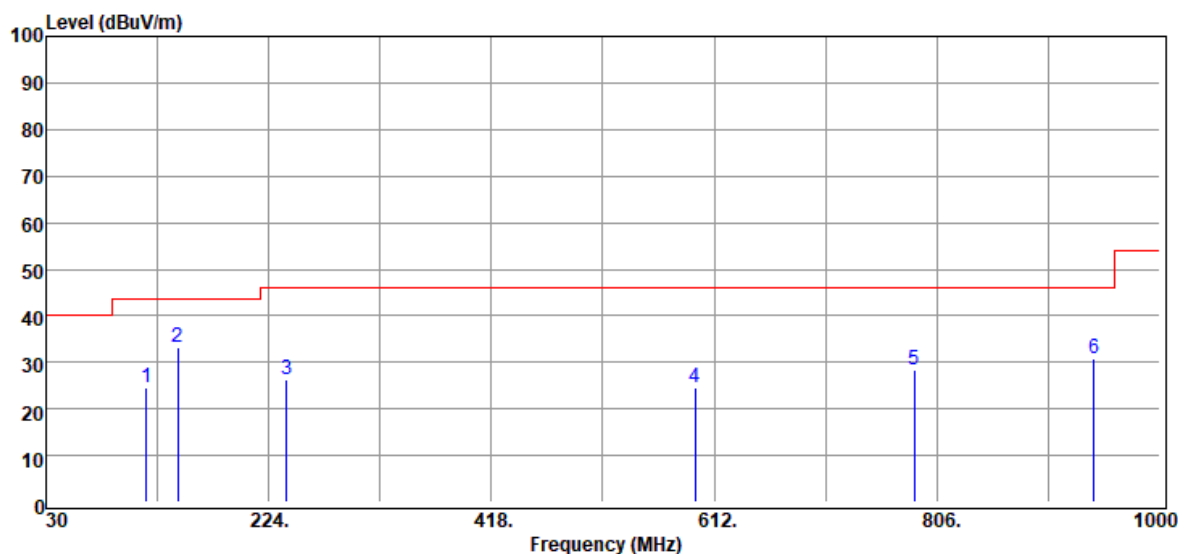
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
117.30	Peak	43.45	-18.96	24.49	43.50	-19.01
144.46	Peak	49.96	-16.66	33.30	43.50	-10.20
239.52	Peak	43.20	-17.00	26.20	46.00	-19.80
595.51	Peak	33.53	-8.94	24.59	46.00	-21.41
786.60	Peak	34.39	-6.15	28.24	46.00	-17.76
942.77	Peak	35.52	-4.71	30.81	46.00	-15.19

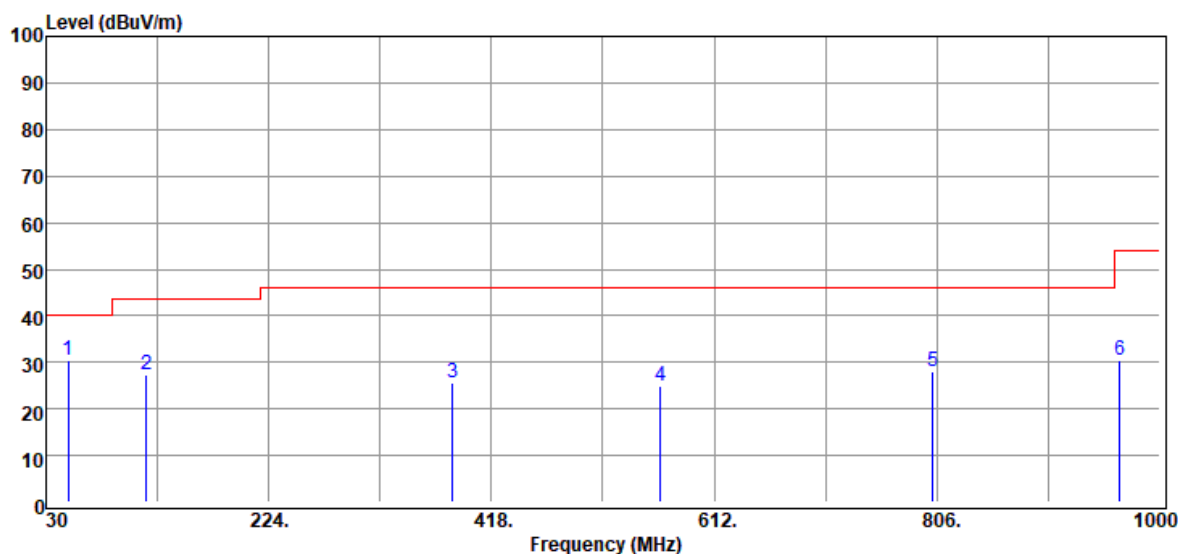
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/61
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
49.40	Peak	47.17	-16.82	30.35	40.00	-9.65
117.30	Peak	46.13	-18.96	27.17	43.50	-16.33
384.05	Peak	38.73	-13.06	25.67	46.00	-20.33
565.44	Peak	34.91	-9.93	24.98	46.00	-21.02
802.12	Peak	34.25	-6.20	28.05	46.00	-17.95
965.08	Peak	34.79	-4.20	30.59	54.00	-23.41

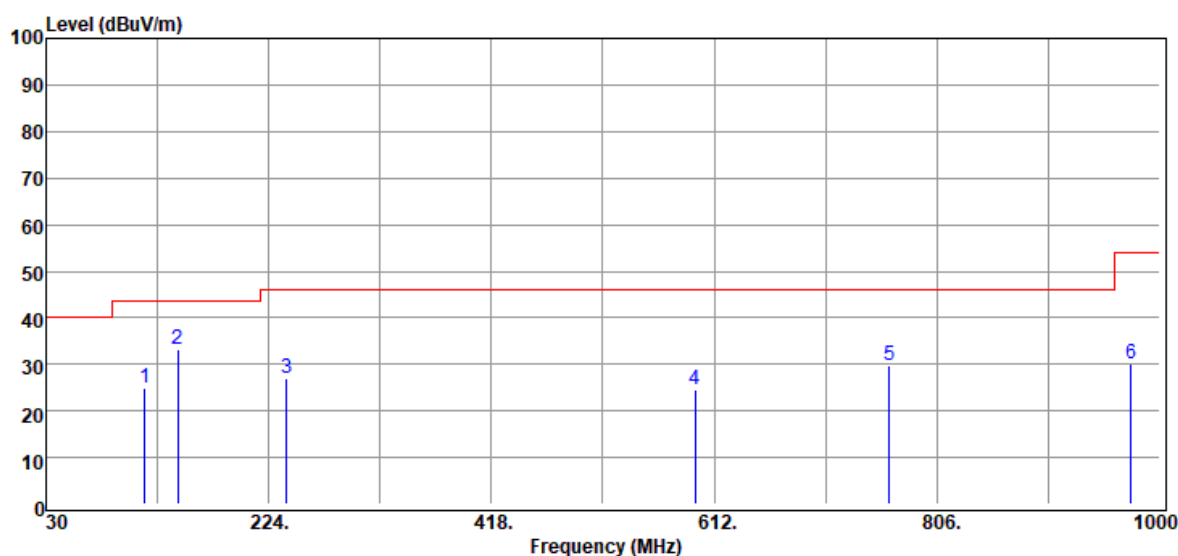
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Report Number :E2/2020/70034
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane
 Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
 Test Date :2020-07-15
 Temp./Humi. :22.8/61
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



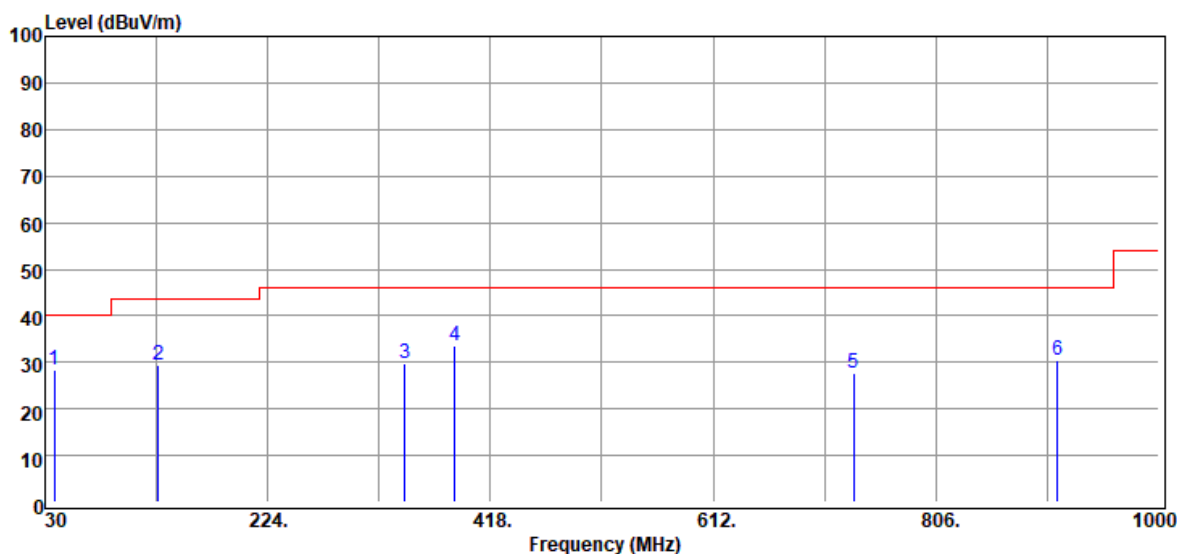
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
116.33	Peak	43.85	-19.00	24.85	43.50	-18.65
144.46	Peak	49.95	-16.66	33.29	43.50	-10.21
239.52	Peak	43.95	-17.00	26.95	46.00	-19.05
595.51	Peak	33.49	-8.94	24.55	46.00	-21.45
764.29	Peak	36.59	-6.71	29.88	46.00	-16.12
974.78	Peak	34.26	-4.12	30.14	54.00	-23.86

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Report Number	:E2/2020/70034	Test Site	:966 Chamber D
Operation Mode	:802.11ac160 / Band 1-2	Test Date	:2020-08-14
Test Frequency	:5250 MHz	Temp./Humi.	:23.6/58
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:Chain 0 / Config 1		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
37.76	Peak	45.99	-17.75	28.24	40.00	-11.76
128.94	Peak	47.40	-17.99	29.41	43.50	-14.09
343.31	Peak	43.56	-13.95	29.61	46.00	-16.39
386.96	Peak	46.39	-12.99	33.40	46.00	-12.60
734.22	Peak	34.87	-7.18	27.69	46.00	-18.31
911.73	Peak	35.58	-5.09	30.49	46.00	-15.51

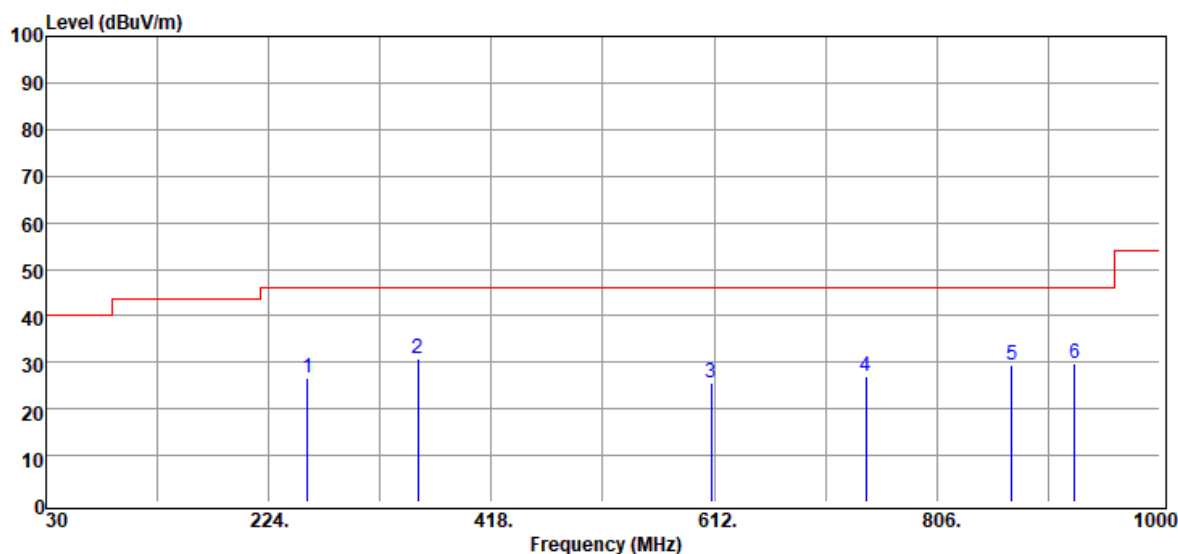
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Report Number :E2/2020/70034
Operation Mode :802.11ac160 / Band 1-2
Test Frequency :5250 MHz
Test Mode :TX CH LOW
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-08-14
Temp./Humi. :23.6/58
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
257.95	Peak	43.63	-17.02	26.61	46.00	-19.39
353.98	Peak	44.83	-14.04	30.79	46.00	-15.21
609.09	Peak	33.71	-8.17	25.54	46.00	-20.46
743.92	Peak	33.93	-6.93	27.00	46.00	-19.00
870.99	Peak	35.40	-5.86	29.54	46.00	-16.46
926.28	Peak	34.52	-4.78	29.74	46.00	-16.26

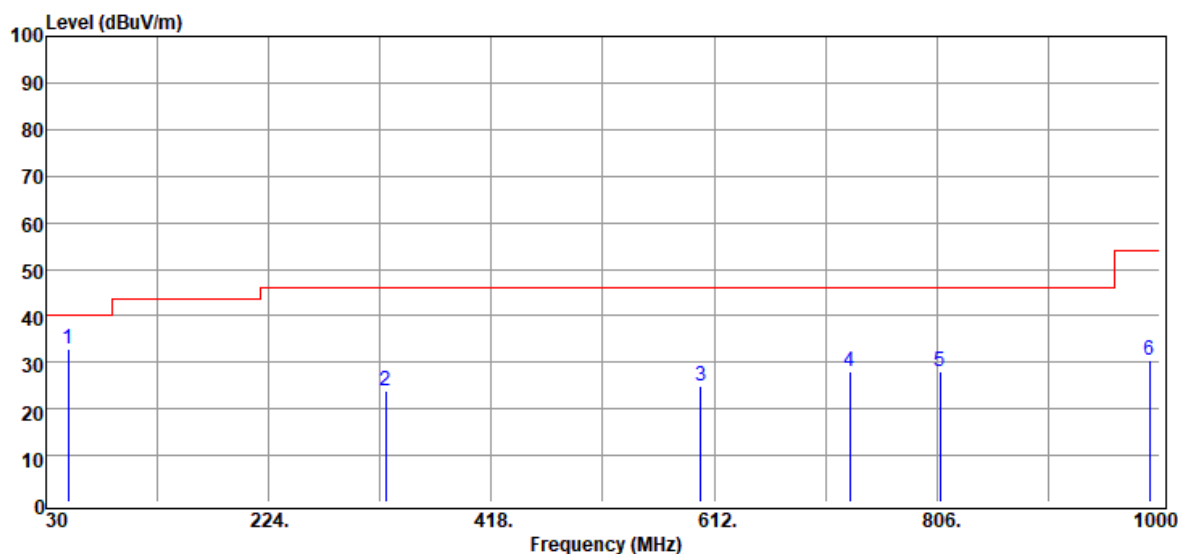
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Report Number :E2/2020/70034
Operation Mode :802.11ac160 / Band 3
Test Frequency :5570 MHz
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Ant Path / EUT :Chain 0 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/61
Antenna Pol. :VERTICAL
Engineer :Kailin



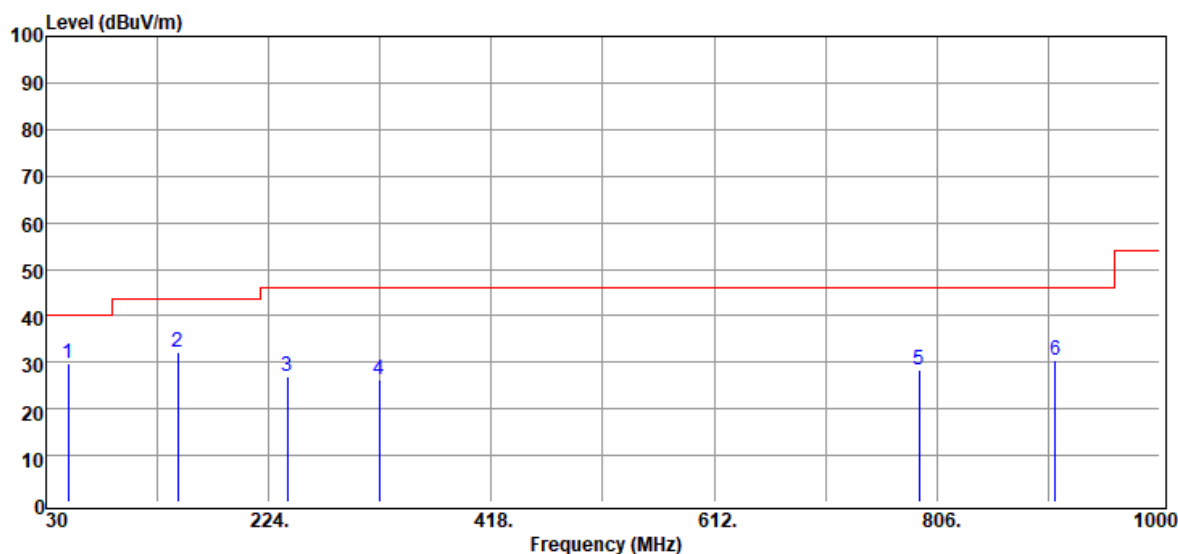
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	Peak	49.64	-16.82	32.82	40.00	-7.18
325.85	Peak	38.44	-14.47	23.97	46.00	-22.03
600.36	Peak	33.32	-8.49	24.83	46.00	-21.17
730.34	Peak	35.00	-7.14	27.86	46.00	-18.14
808.91	Peak	34.31	-6.13	28.18	46.00	-17.82
991.27	Peak	34.53	-4.07	30.46	54.00	-23.54

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Report Number	:E2/2020/70034	Test Site	:966 Chamber D
Operation Mode	:802.11ac160 / Band 3	Test Date	:2020-07-15
Test Frequency	:5570 MHz	Temp./Humi.	:22.8/61
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:Chain 0 / Config 1		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	Peak	46.58	-16.82	29.76	40.00	-10.24
144.46	Peak	48.94	-16.66	32.28	43.50	-11.22
240.49	Peak	44.09	-16.97	27.12	46.00	-18.88
320.03	Peak	41.09	-14.84	26.25	46.00	-19.75
790.48	Peak	34.42	-6.15	28.27	46.00	-17.73
908.82	Peak	35.61	-5.18	30.43	46.00	-15.57

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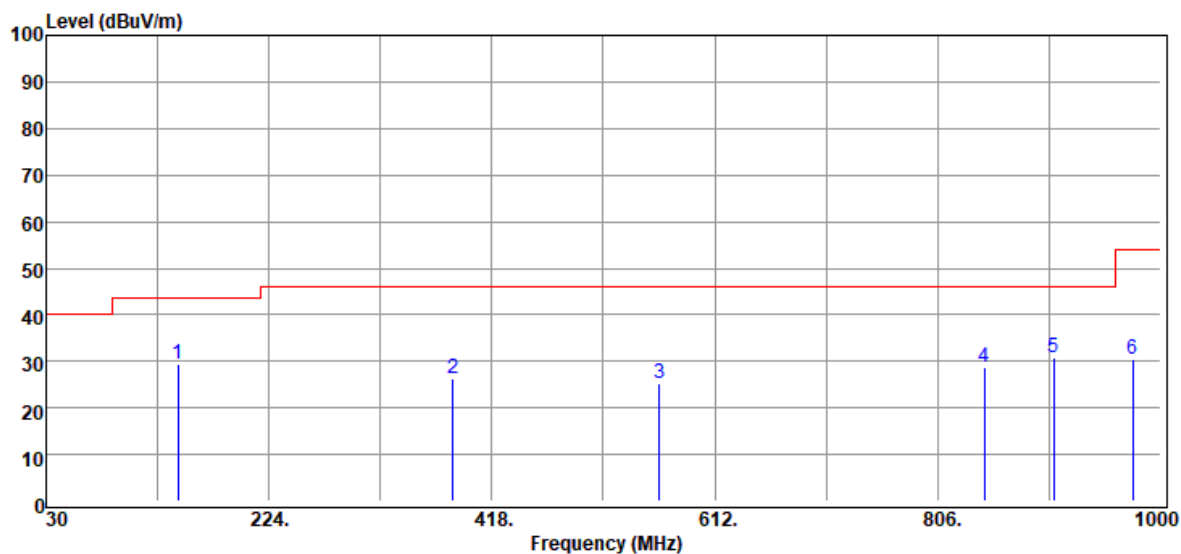
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Mode: Chain 1

Report Number :E2/2020/70034
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.7/61
Antenna Pol. :VERTICAL
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
144.46	Peak	46.20	-16.66	29.54	43.50	-13.96
384.05	Peak	39.32	-13.06	26.26	46.00	-19.74
563.50	Peak	35.19	-10.01	25.18	46.00	-20.82
846.74	Peak	34.92	-6.23	28.69	46.00	-17.31
906.88	Peak	35.88	-5.23	30.65	46.00	-15.35
975.75	Peak	34.73	-4.12	30.61	54.00	-23.39

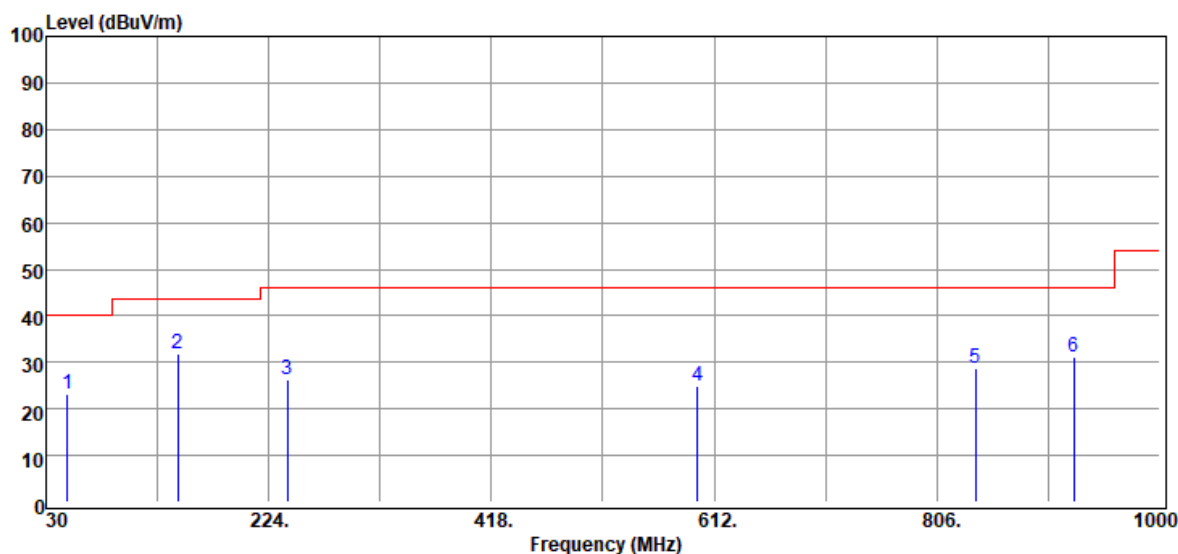
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.7/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	Peak	39.91	-16.86	23.05	40.00	-16.95
144.46	Peak	48.54	-16.66	31.88	43.50	-11.62
240.49	Peak	43.15	-16.97	26.18	46.00	-19.82
597.45	Peak	33.71	-8.76	24.95	46.00	-21.05
839.95	Peak	34.77	-6.18	28.59	46.00	-17.41
925.31	Peak	35.77	-4.78	30.99	46.00	-15.01

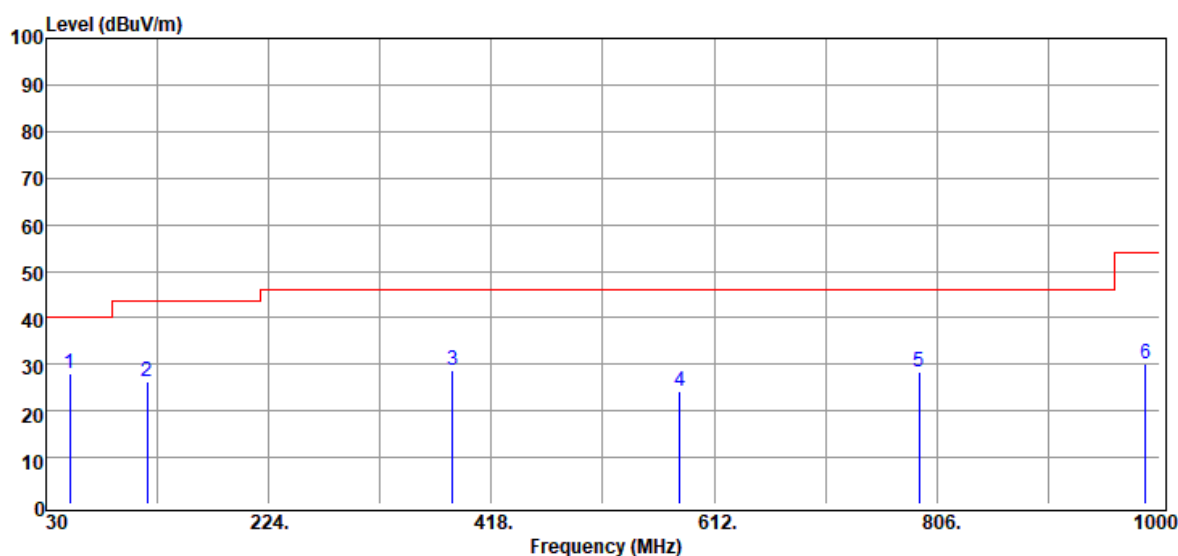
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Report Number :E2/2020/70034
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane
 Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
 Test Date :2020-07-15
 Temp./Humi. :22.7/61
 Antenna Pol. :VERTICAL
 Engineer :Kailin



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
50.37	Peak	44.88	-16.87	28.01	40.00	-11.99
118.27	Peak	45.35	-18.88	26.47	43.50	-17.03
384.05	Peak	41.68	-13.06	28.62	46.00	-17.38
581.93	Peak	33.64	-9.39	24.25	46.00	-21.75
790.48	Peak	34.51	-6.15	28.36	46.00	-17.64
987.39	Peak	34.20	-4.08	30.12	54.00	-23.88

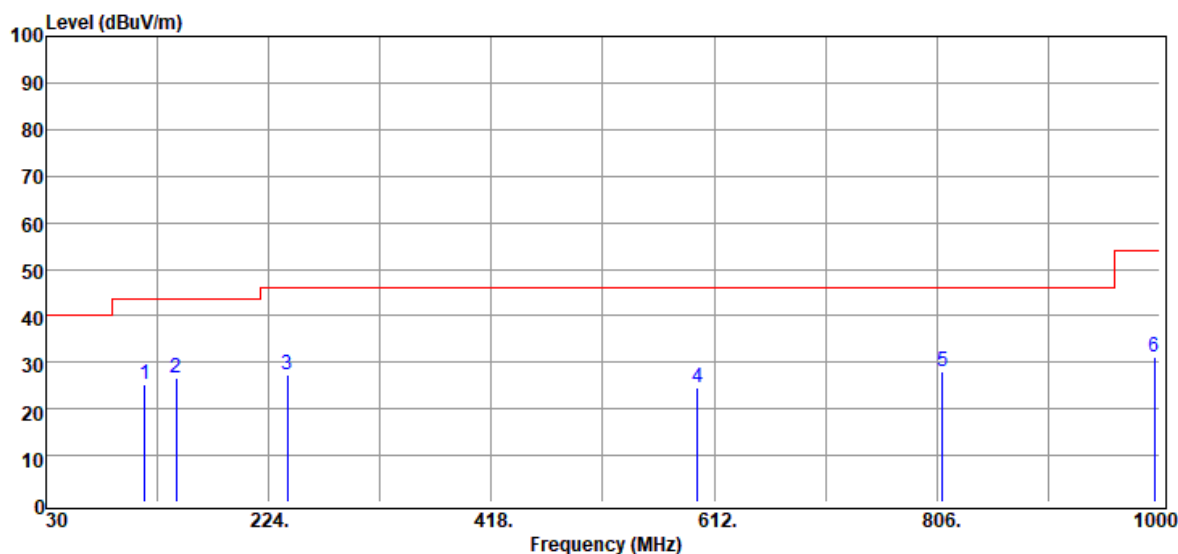
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.7/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
116.33	Peak	44.22	-19.00	25.22	43.50	-18.28
143.49	Peak	43.45	-16.70	26.75	43.50	-16.75
240.49	Peak	44.29	-16.97	27.32	46.00	-18.68
597.45	Peak	33.35	-8.76	24.59	46.00	-21.41
810.85	Peak	34.25	-6.12	28.13	46.00	-17.87
995.15	Peak	35.30	-4.12	31.18	54.00	-22.82

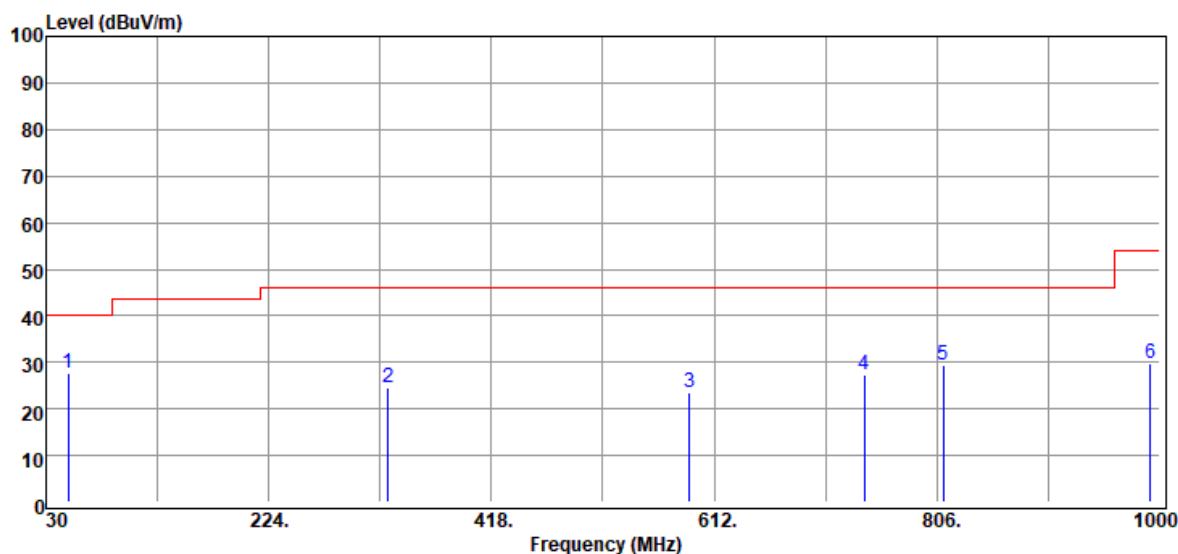
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/62
Antenna Pol. :VERTICAL
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
49.40	Peak	44.46	-16.82	27.64	40.00	-12.36
327.79	Peak	38.87	-14.41	24.46	46.00	-21.54
590.66	Peak	32.88	-9.40	23.48	46.00	-22.52
742.95	Peak	34.47	-6.96	27.51	46.00	-18.49
811.82	Peak	35.41	-6.11	29.30	46.00	-16.70
992.24	Peak	33.81	-4.08	29.73	54.00	-24.27

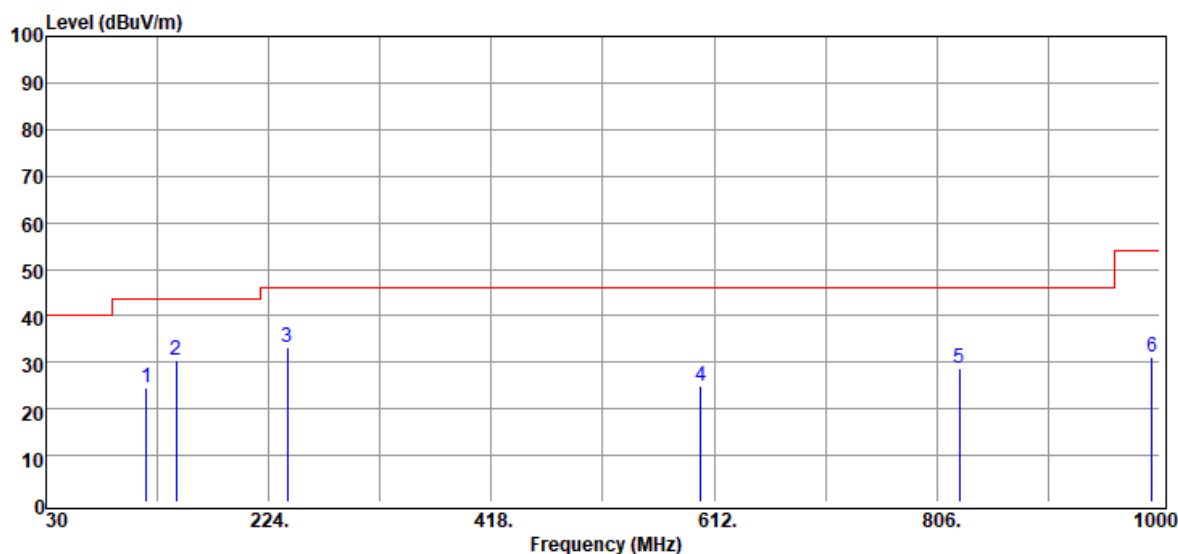
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
117.30	Peak	43.50	-18.96	24.54	43.50	-18.96
143.49	Peak	47.23	-16.70	30.53	43.50	-12.97
240.49	Peak	50.08	-16.97	33.11	46.00	-12.89
600.36	Peak	33.31	-8.49	24.82	46.00	-21.18
825.40	Peak	34.70	-6.06	28.64	46.00	-17.36
993.21	Peak	35.16	-4.09	31.07	54.00	-22.93

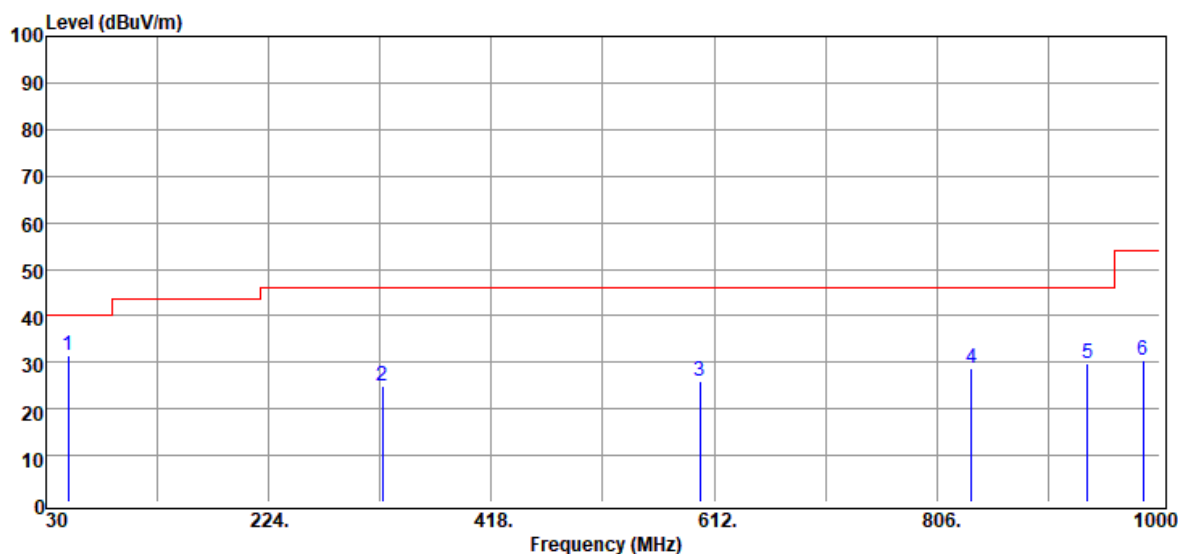
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/61
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
49.40	Peak	48.14	-16.82	31.32	40.00	-8.68
322.94	Peak	39.58	-14.63	24.95	46.00	-21.05
599.39	Peak	34.60	-8.57	26.03	46.00	-19.97
836.07	Peak	34.81	-6.19	28.62	46.00	-17.38
936.95	Peak	34.62	-4.73	29.89	46.00	-16.11
985.45	Peak	34.71	-4.11	30.60	54.00	-23.40

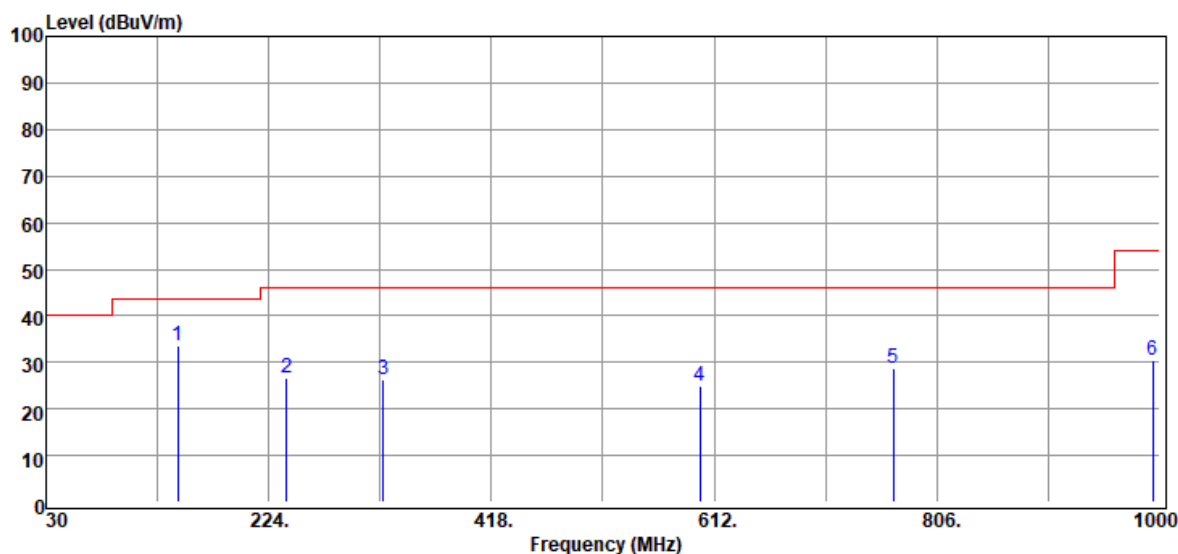
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Report Number :E2/2020/70034
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
144.46	Peak	50.10	-16.66	33.44	43.50	-10.06
239.52	Peak	43.73	-17.00	26.73	46.00	-19.27
323.91	Peak	40.97	-14.58	26.39	46.00	-19.61
599.39	Peak	33.44	-8.57	24.87	46.00	-21.13
768.17	Peak	35.40	-6.73	28.67	46.00	-17.33
994.18	Peak	34.70	-4.10	30.60	54.00	-23.40

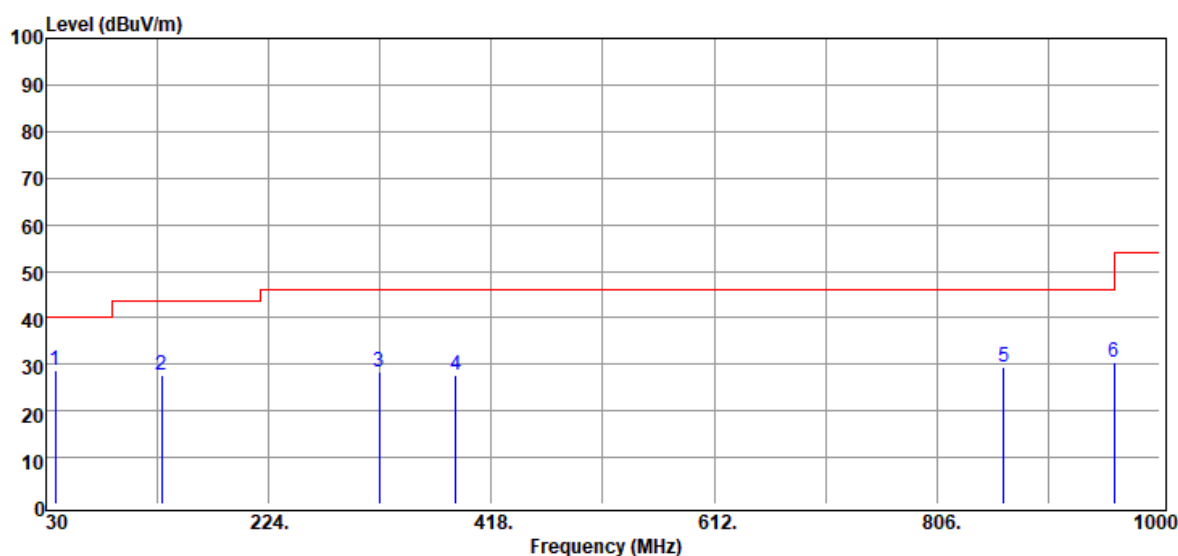
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Report Number :E2/2020/70034
Operation Mode :802.11ac160 / Band 1-2
Test Frequency :5250 MHz
Test Mode :TX CH LOW
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-08-14
Temp./Humi. :23.6/58
Antenna Pol. :VERTICAL
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
37.76	Peak	46.52	-17.75	28.77	40.00	-11.23
130.88	Peak	45.51	-17.79	27.72	43.50	-15.78
320.03	Peak	43.14	-14.84	28.30	46.00	-17.70
386.96	Peak	40.76	-12.99	27.77	46.00	-18.23
864.20	Peak	35.56	-6.01	29.55	46.00	-16.45
960.23	Peak	34.91	-4.32	30.59	54.00	-23.41

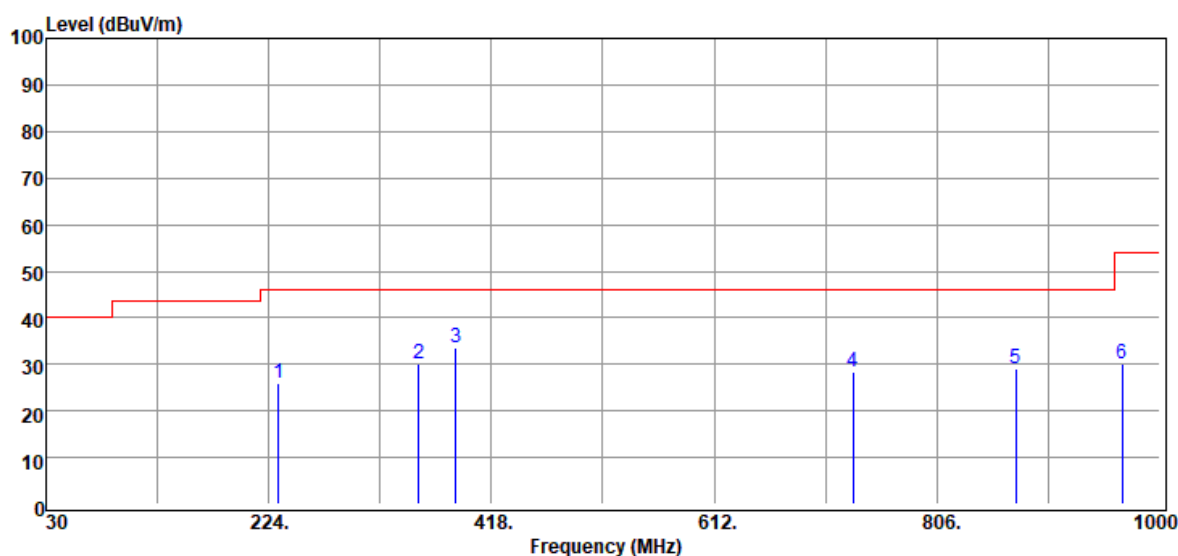
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Report Number :E2/2020/70034
Operation Mode :802.11ac160 / Band 1-2
Test Frequency :5250 MHz
Test Mode :TX CH LOW
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-08-14
Temp./Humi. :23.6/58
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
232.73	Peak	43.49	-17.51	25.98	46.00	-20.02
354.95	Peak	44.14	-14.04	30.10	46.00	-15.90
386.96	Peak	46.43	-12.99	33.44	46.00	-12.56
733.25	Peak	35.37	-7.17	28.20	46.00	-17.80
874.87	Peak	34.93	-5.74	29.19	46.00	-16.81
967.02	Peak	34.24	-4.15	30.09	54.00	-23.91

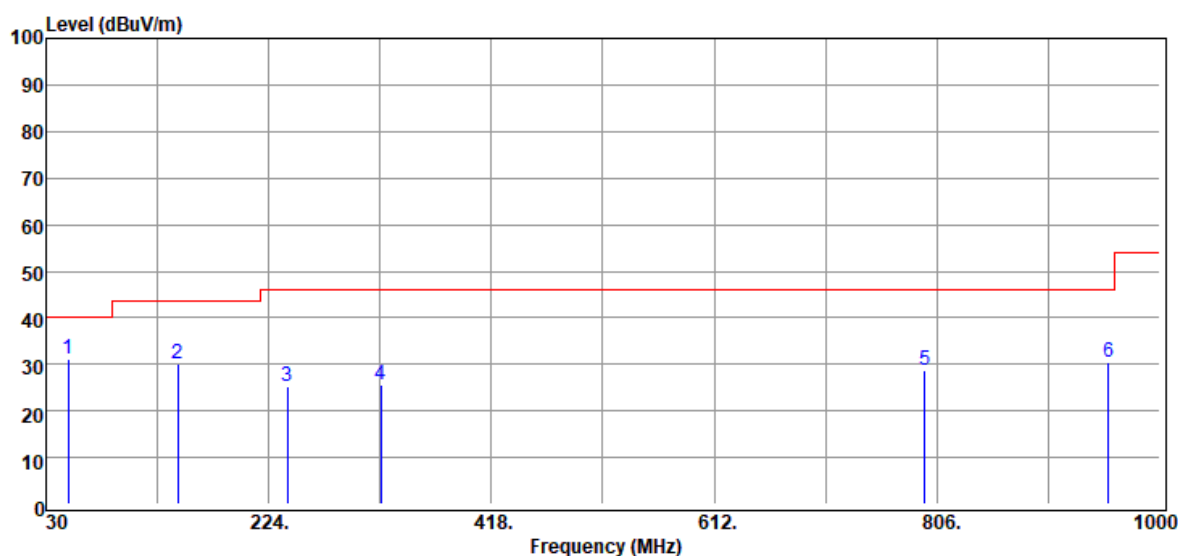
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Report Number :E2/2020/70034
 Operation Mode :802.11ac160 / Band 3
 Test Frequency :5570 MHz
 Test Mode :TX CH HIGH
 EUT Pol :NB Plane
 Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
 Test Date :2020-07-15
 Temp./Humi. :22.8/61
 Antenna Pol. :VERTICAL
 Engineer :Kailin



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
49.40	Peak	47.91	-16.82	31.09	40.00	-8.91
144.46	Peak	46.71	-16.66	30.05	43.50	-13.45
240.49	Peak	42.23	-16.97	25.26	46.00	-20.74
321.97	Peak	40.14	-14.70	25.44	46.00	-20.56
795.33	Peak	34.68	-6.09	28.59	46.00	-17.41
955.38	Peak	34.75	-4.43	30.32	46.00	-15.68

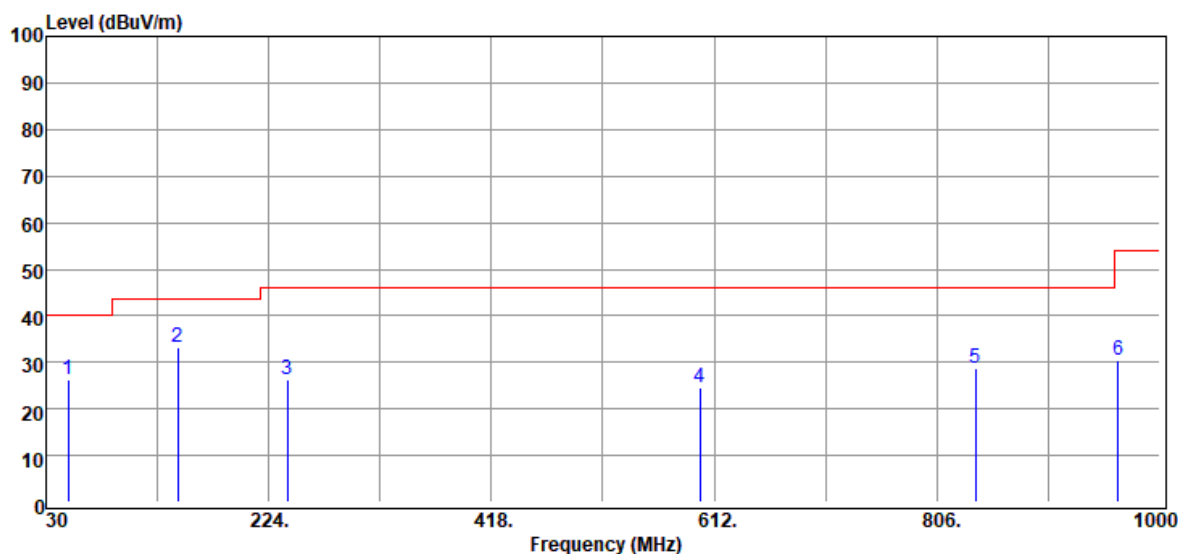
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Report Number :E2/2020/70034
Operation Mode :802.11ac160 / Band 3
Test Frequency :5570 MHz
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Ant Path / EUT :Chain 1 / Config 1

Test Site :966 Chamber D
Test Date :2020-07-15
Temp./Humi. :22.8/61
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	Peak	43.12	-16.82	26.30	40.00	-13.70
144.46	Peak	49.93	-16.66	33.27	43.50	-10.23
240.49	Peak	43.42	-16.97	26.45	46.00	-19.55
599.39	Peak	33.22	-8.57	24.65	46.00	-21.35
839.95	Peak	34.90	-6.18	28.72	46.00	-17.28
964.11	Peak	34.73	-4.22	30.51	54.00	-23.49

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Mode: MIMO

Report Number :E2/2020/70034

Operation Mode :802.11n40 / Band 1

Test Frequency :5190 MHz

Test Mode :TX CH LOW

EUT Pol :NB Plane

Ant Path / EUT :MIMO / Config 1

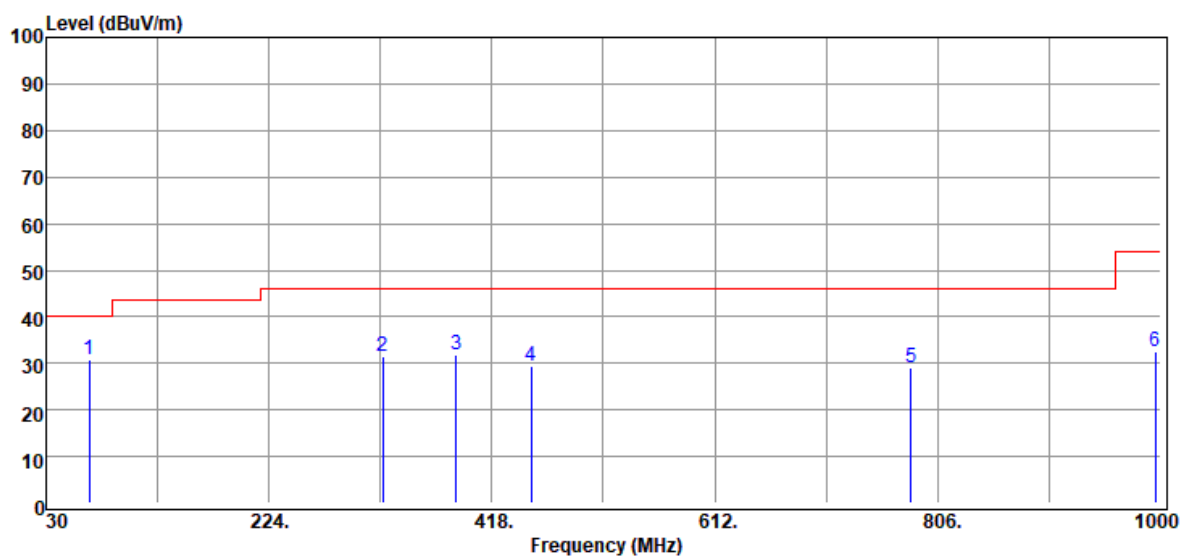
Test Site :966 Chamber D

Test Date :2020-08-19

Temp./Humi. :23.2/64

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
67.83	Peak	49.52	-18.66	30.86	40.00	-9.14
322.94	Peak	45.98	-14.63	31.35	46.00	-14.65
386.96	Peak	44.85	-12.99	31.86	46.00	-14.14
451.95	Peak	40.59	-11.31	29.28	46.00	-16.72
782.72	Peak	35.25	-6.25	29.00	46.00	-17.00
995.15	Peak	36.75	-4.12	32.63	54.00	-21.37

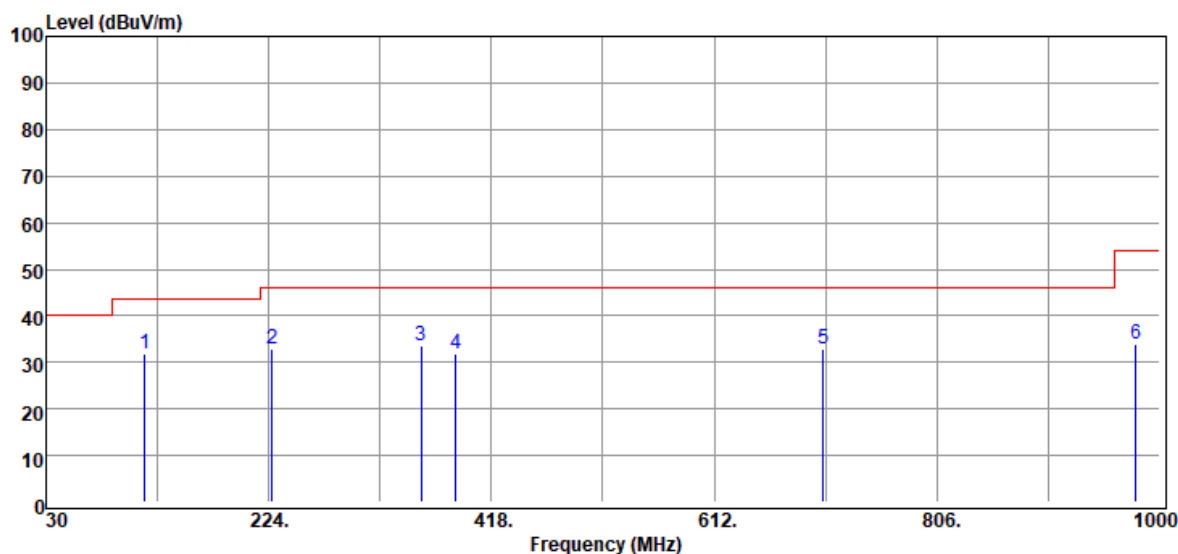
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Report Number :E2/2020/70034
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :TX CH LOW
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 1

Test Site :966 Chamber D
Test Date :2020-08-19
Temp./Humi. :23.2/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
116.33	Peak	50.89	-19.00	31.89	43.50	-11.61
226.91	Peak	50.95	-18.09	32.86	46.00	-13.14
356.89	Peak	47.51	-13.99	33.52	46.00	-12.48
386.96	Peak	44.90	-12.99	31.91	46.00	-14.09
707.06	Peak	41.26	-8.31	32.95	46.00	-13.05
979.63	Peak	38.06	-4.07	33.99	54.00	-20.01

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