



Project No: TM-2503000067P
Report No.: TMWK2503001053KR

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4.3.4 Test Result

Temperature: 19.2 ~ 25.2°C **Test date:** March 14 ~ April 21, 2025
Humidity: 50 ~ 64% RH **Tested by:** David Li

FCC :

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	3.359	0.16	3.52		9.80 dBm/MHz	-6.28
5220	3.185	0.16	3.35		9.80 dBm/MHz	-6.46
5240	3.119	0.16	3.28		9.80 dBm/MHz	-6.52
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	3.802	0.16	2.22	6.18	22.80 dBm/500kHz	-16.62
5785	3.485	0.16	2.22	5.87	22.80 dBm/500kHz	-16.94
5825	4.415	0.16	2.22	6.80	22.80 dBm/500kHz	-16.01

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(antenna gain-6)=9.8
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(antenna gain-6)=22.8
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-1.104	-0.270	0.95	3.29		6.79 dBm/MHz	-3.50
5220	-0.058	-0.537	0.95	3.67		6.79 dBm/MHz	-3.12
5240	-0.273	-0.443	0.95	3.60		6.79 dBm/MHz	-3.19
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	0.745	1.817	0.95	2.22	7.49	19.79 dBm/500kHz	-12.30
5785	0.121	0.233	0.95	2.22	6.36	19.79 dBm/500kHz	-13.43
5825	0.262	0.373	0.95	2.22	6.50	19.79 dBm/500kHz	-13.29

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.



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POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-4.381	-3.999	0.95	-0.23		6.79 dBm/MHz	-7.02
5230	-2.723	-3.362	0.95	0.93		6.79 dBm/MHz	-5.86
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-2.361	-1.543	0.95	2.22	4.25	19.79 dBm/500kHz	-15.54
5795	-2.494	-2.448	0.95	2.22	3.71	19.79 dBm/500kHz	-16.08

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-5.113	-7.429	0.95	-2.16		6.79 dBm/MHz	-8.95
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-6.249	-6.310	0.95	2.22	-0.10	19.79 dBm/500kHz	-19.89

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	-0.145	-0.771	0.94	3.50		6.79 dBm/MHz	-3.29
5220	full	0.701	-1.235	0.94	3.79		6.79 dBm/MHz	-3.00
5240	full	-0.030	-0.585	0.94	3.65		6.79 dBm/MHz	-3.14
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	full	0.959	1.810	0.94	2.22	7.58	19.79 dBm/500kHz	-12.21
5785	full	0.035	0.328	0.94	2.22	6.35	19.79 dBm/500kHz	-13.44
5825	full	0.328	0.494	0.94	2.22	6.58	19.79 dBm/500kHz	-13.21

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-3.111	-3.281	0.96	0.78		6.79 dBm/MHz	-6.01
5230	full	-3.002	-4.001	0.96	0.50		6.79 dBm/MHz	-6.29
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	full	-2.391	-1.961	0.96	2.22	4.02	19.79 dBm/500kHz	-15.77
5795	full	-3.385	-2.848	0.96	2.22	3.08	19.79 dBm/500kHz	-16.71

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-5.752	-6.746	0.95	-2.26		6.79 dBm/MHz	-9.05
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	full	-6.844	-7.085	0.95	2.22	-0.78	19.79 dBm/500kHz	-20.57

*Note:

1. cable loss as dB that offsets in the spectrum.
2. The FCC UNII-1 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 17-(Direction gain -6)=6.79
3. The FCC UNII-3 power density limits antenna gain to greater than 6 dB, so power limit attenuation was applied to the test results. 30-(Direction gain-6)=19.79
4. RBW conversion factor from 300 kHz to 500 kHz: $10 \cdot \log(500 \text{ kHz} / 300 \text{ kHz}) = 2.22 \text{ dB}$.

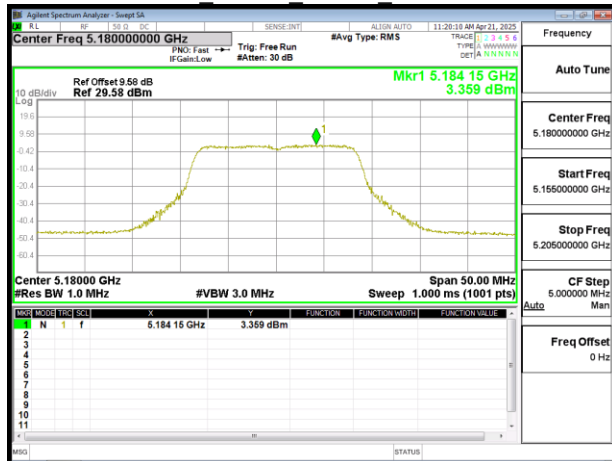


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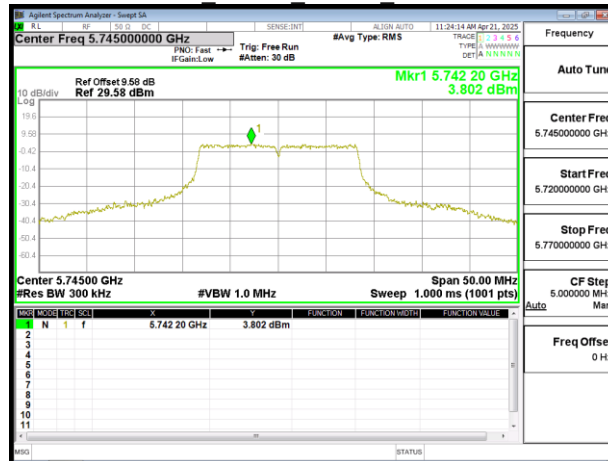
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Test Data

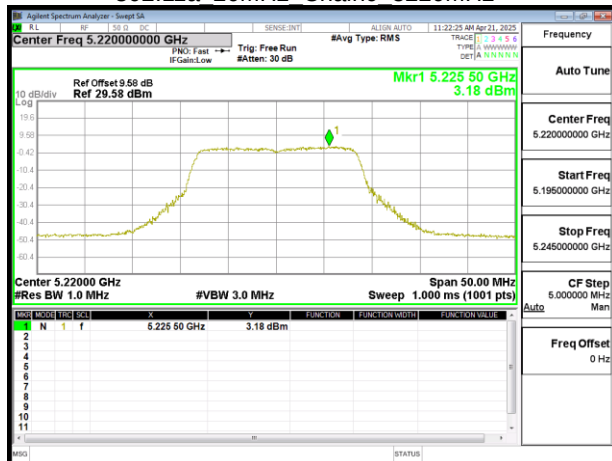
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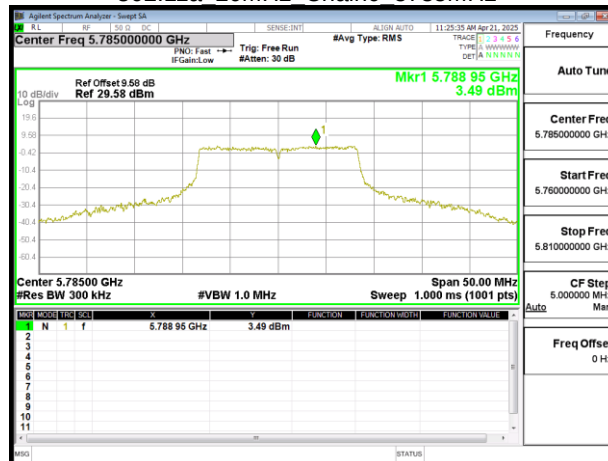
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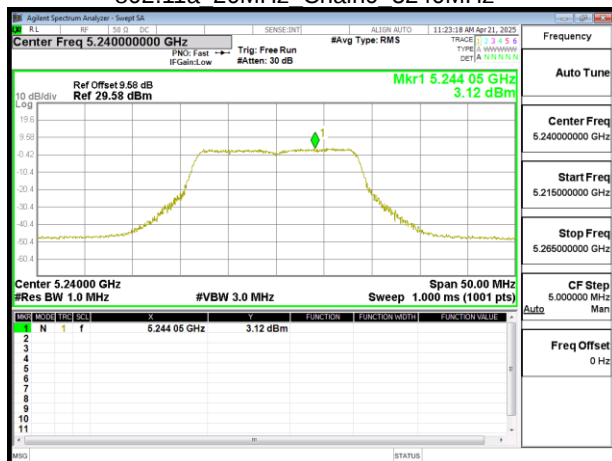
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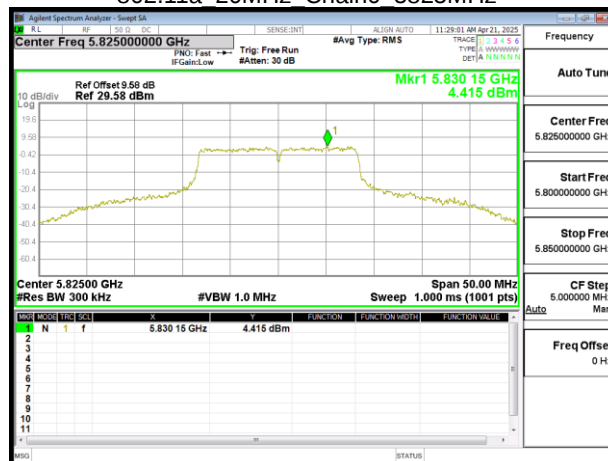
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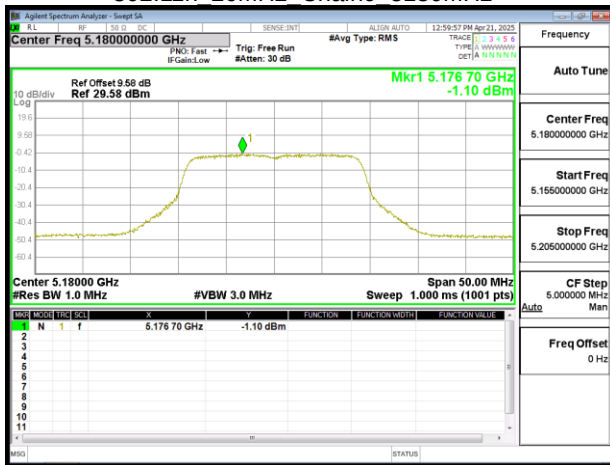




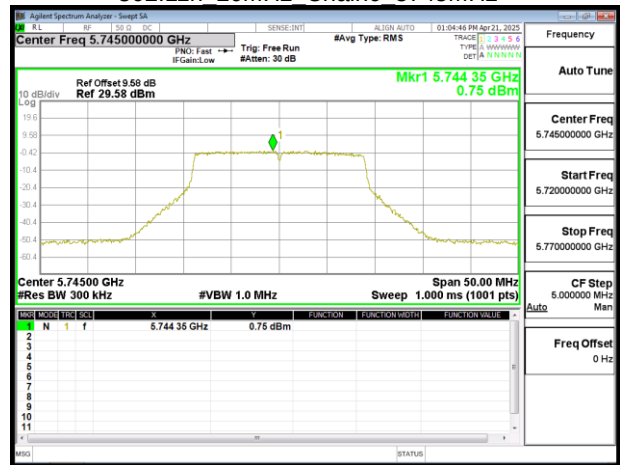
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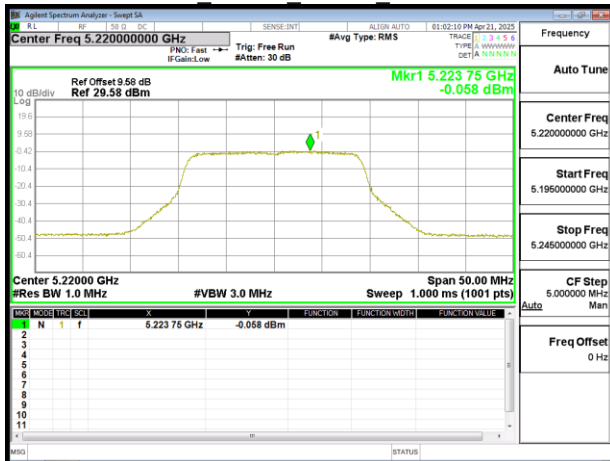
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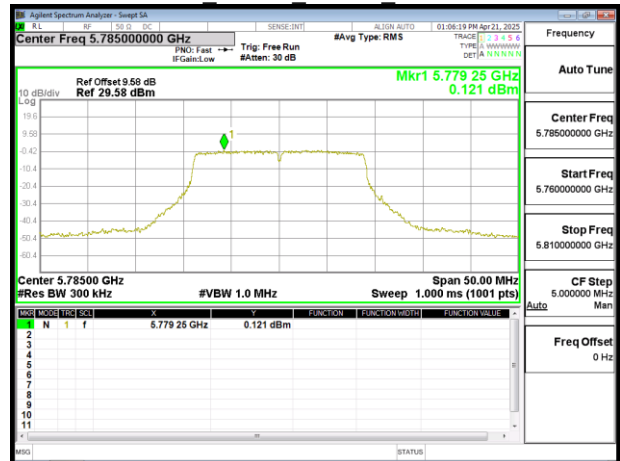
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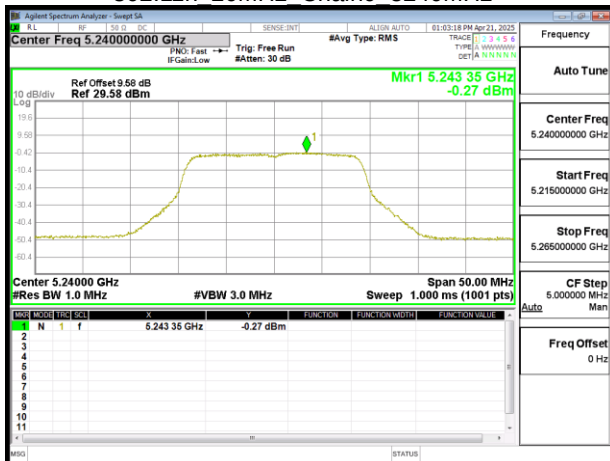
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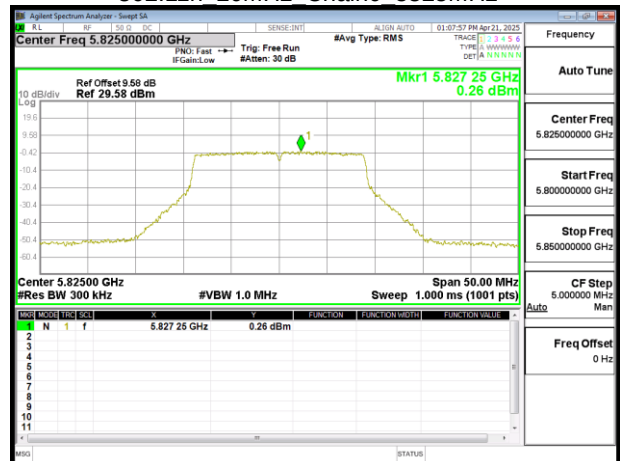
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802.11n 20MHz Chain0 5240MHz



802.11n 20MHz Chain0 5825MHz

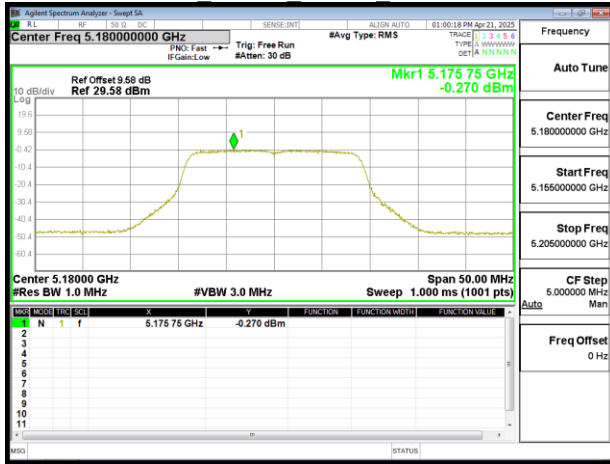




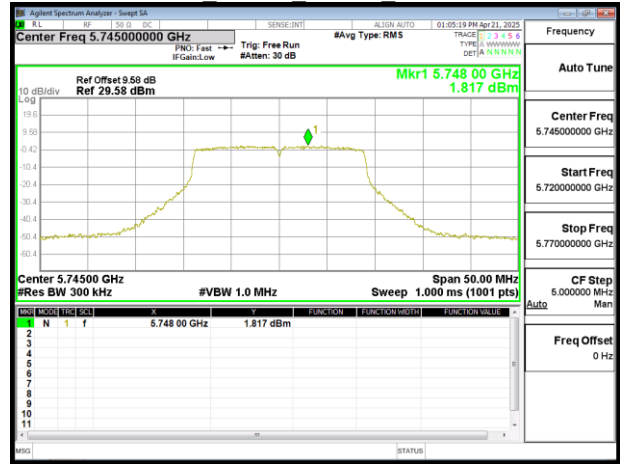
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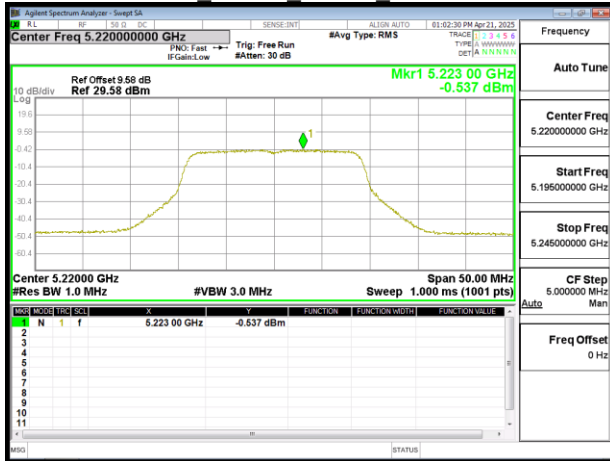
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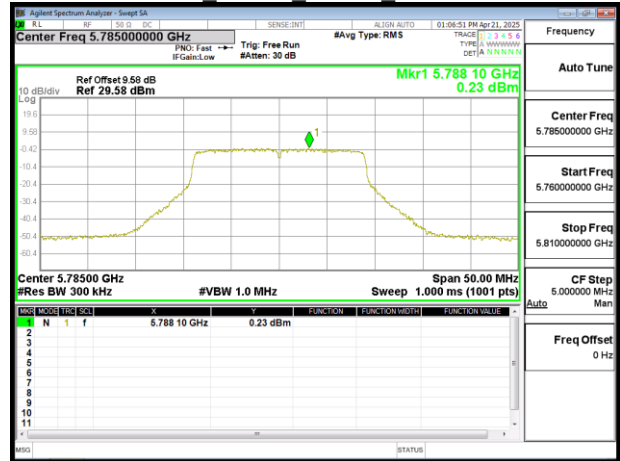
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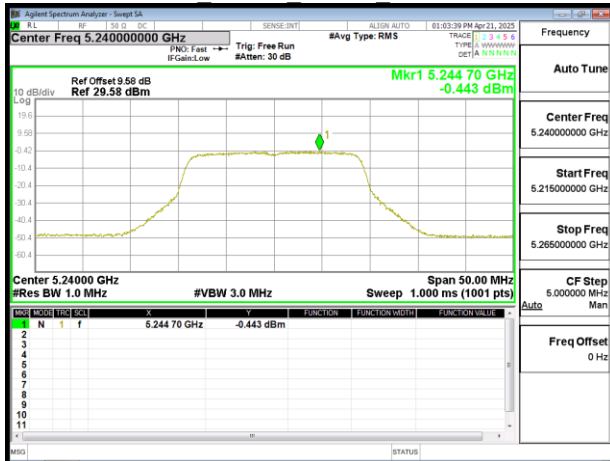
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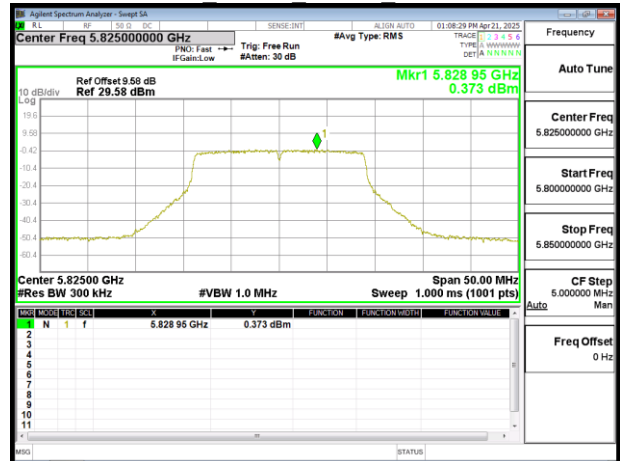
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802.11n 20MHz Chain1 5240MHz



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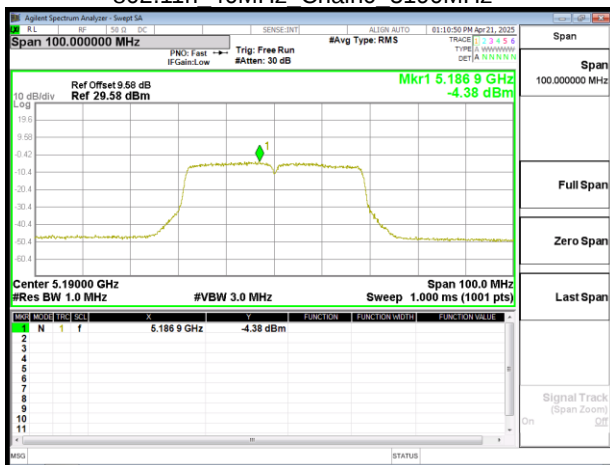




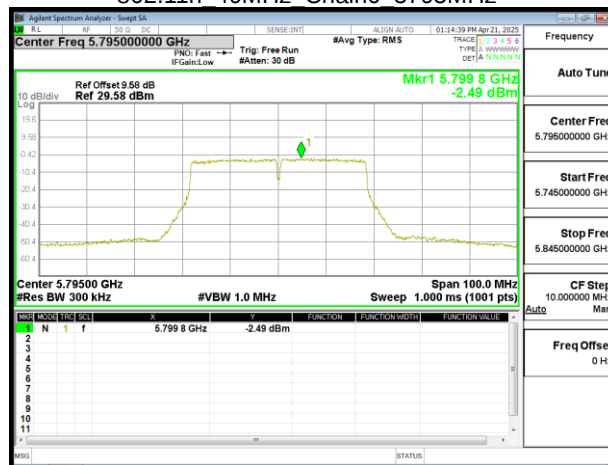
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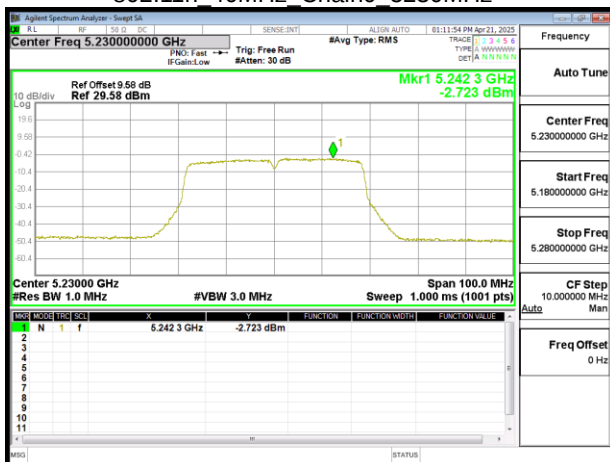
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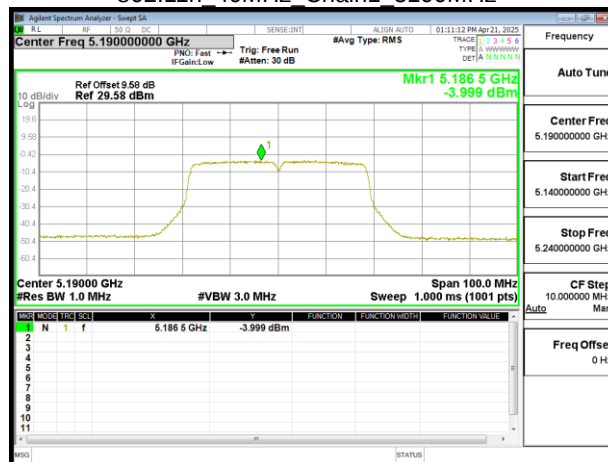
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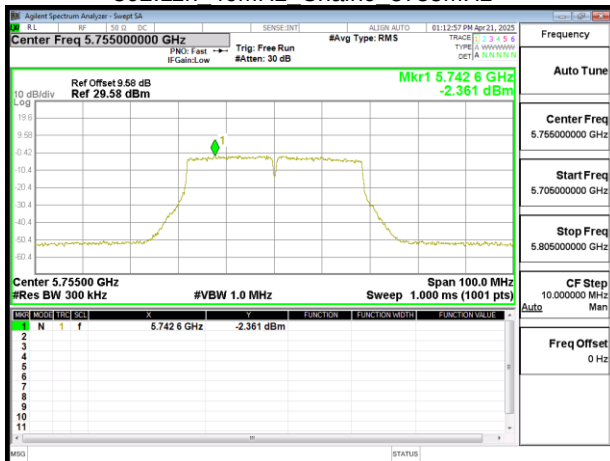
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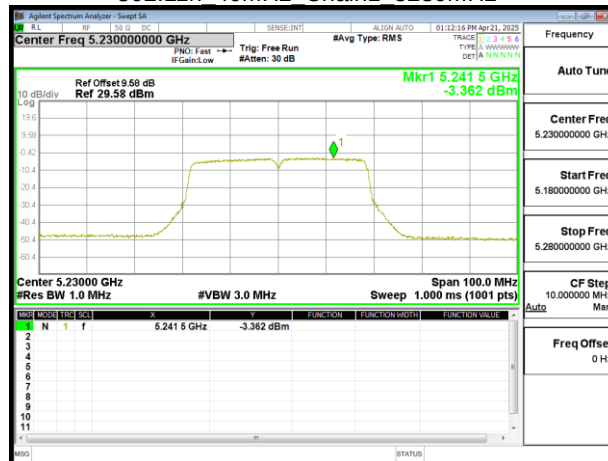
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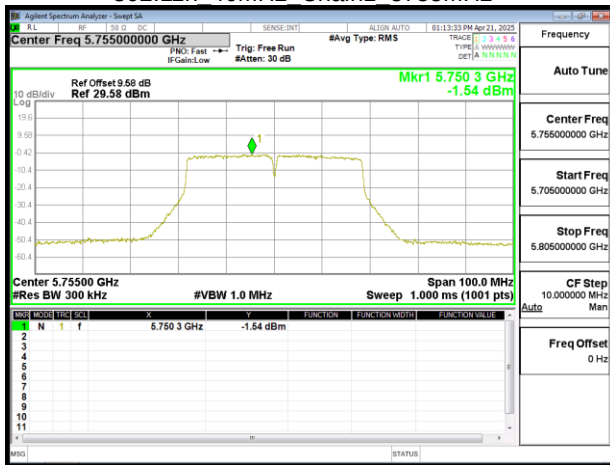




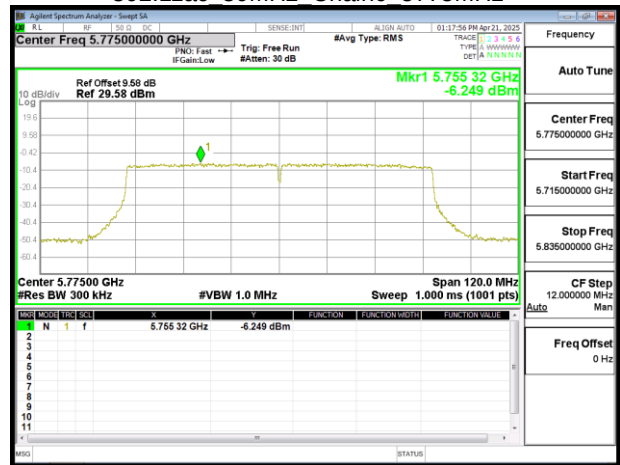
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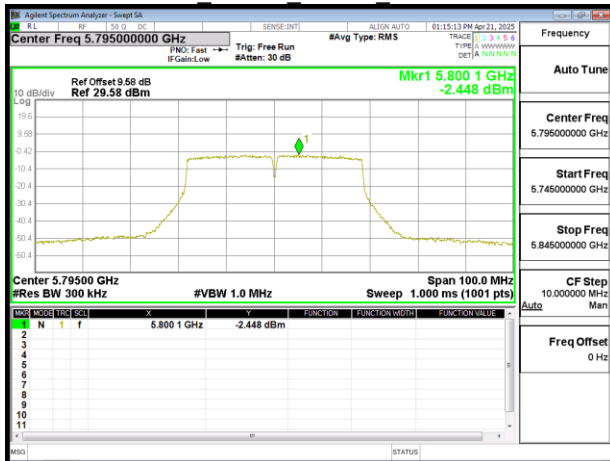
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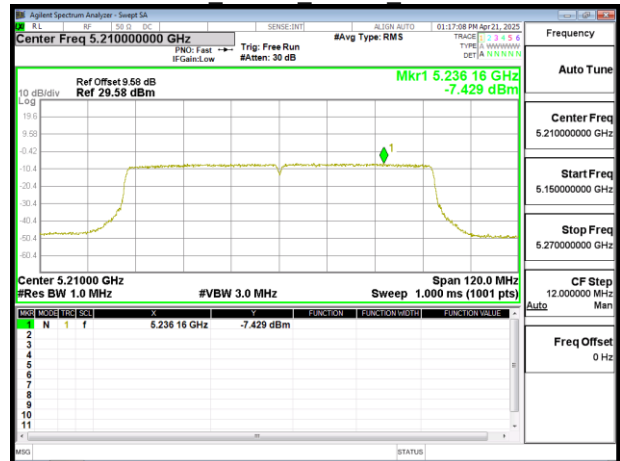
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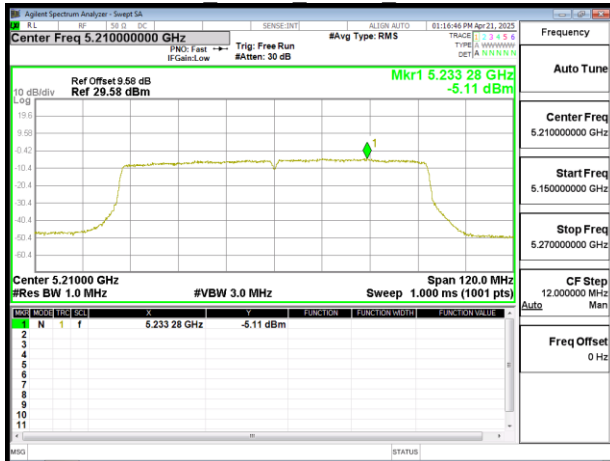
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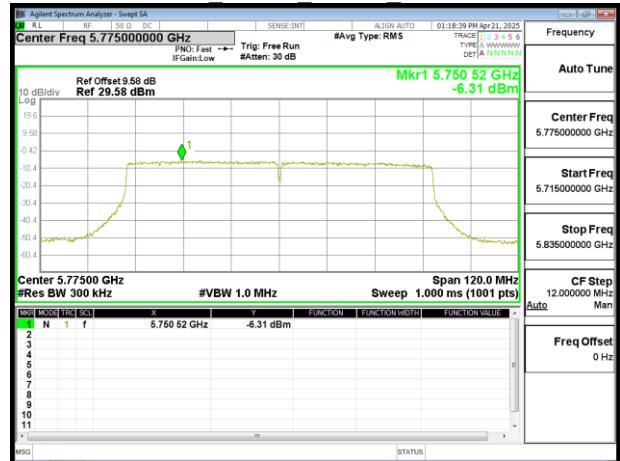
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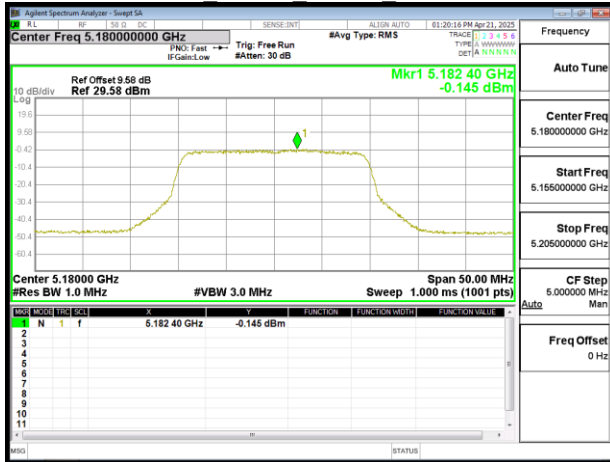




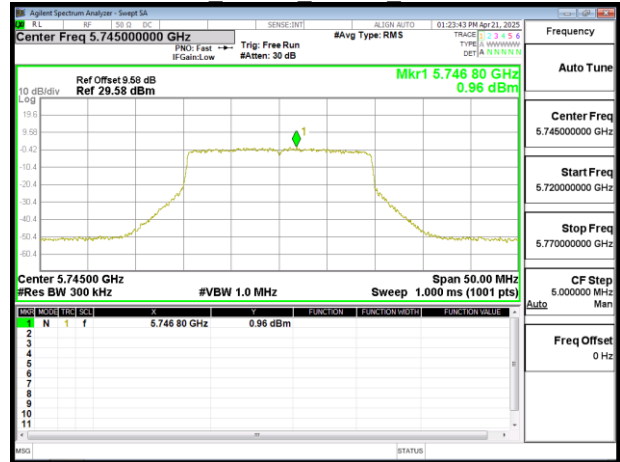
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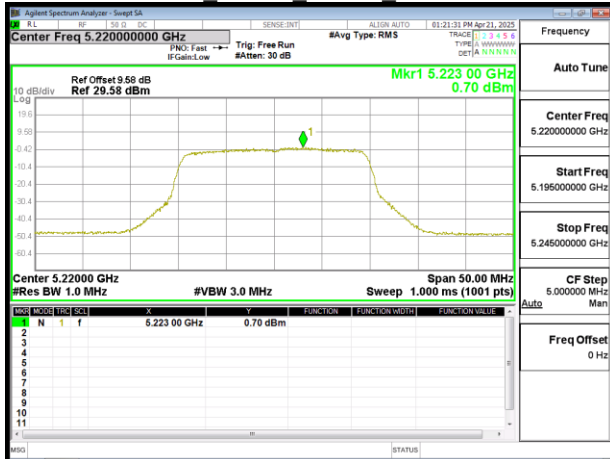
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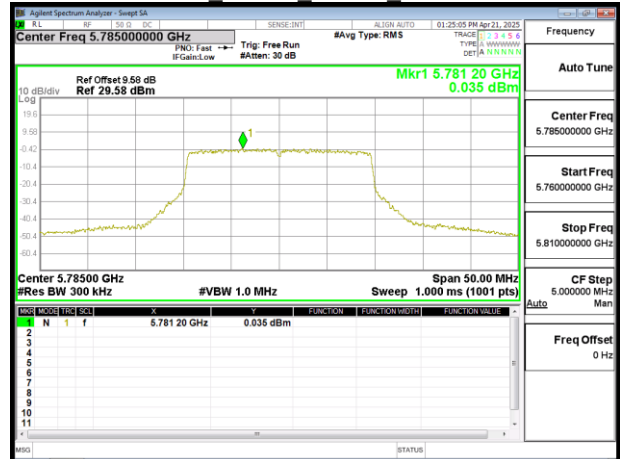
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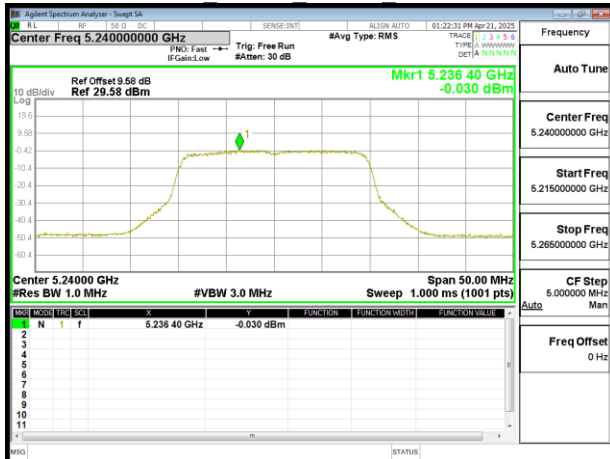
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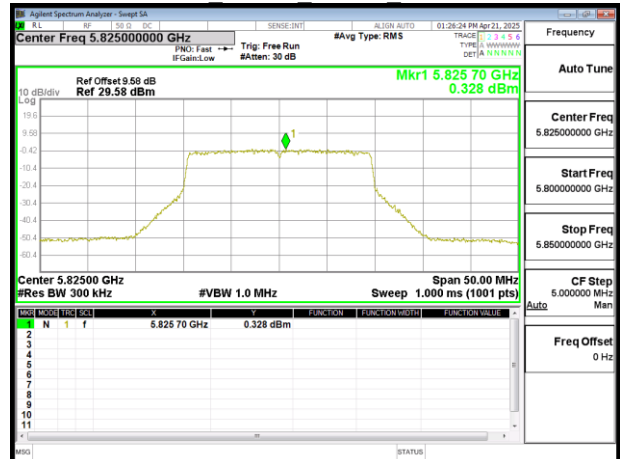
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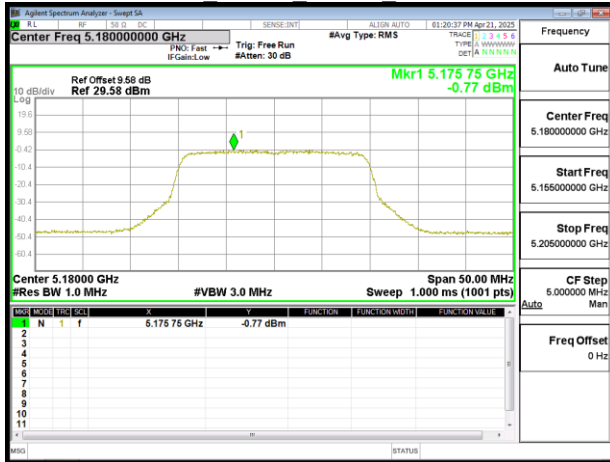




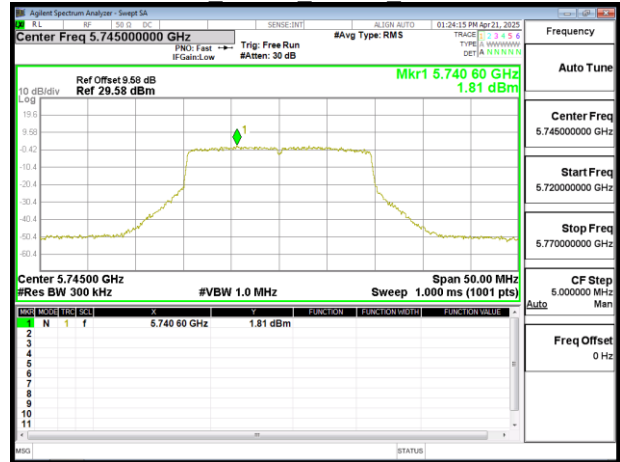
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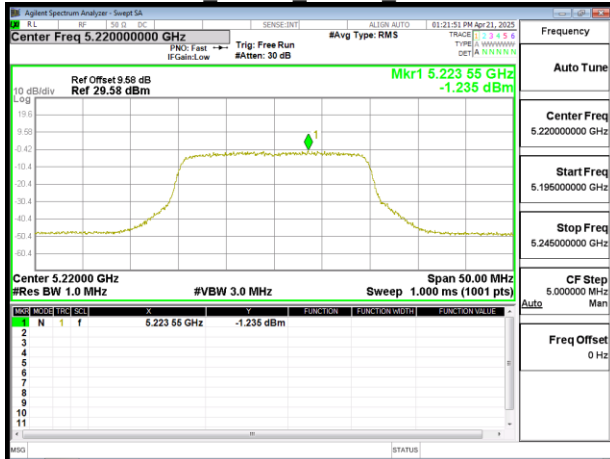
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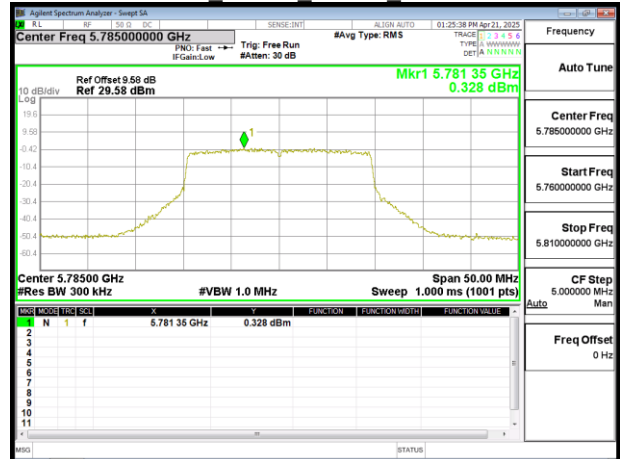
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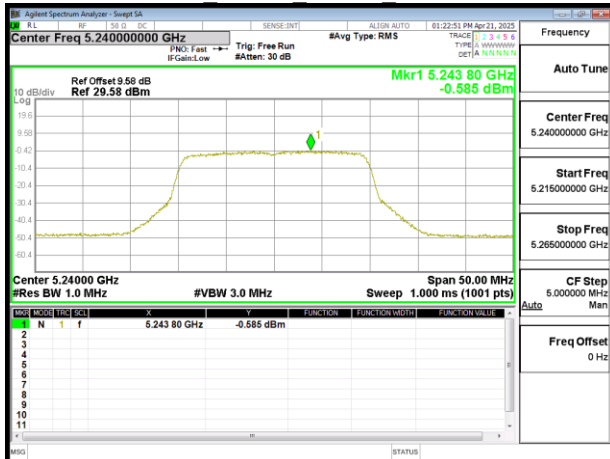
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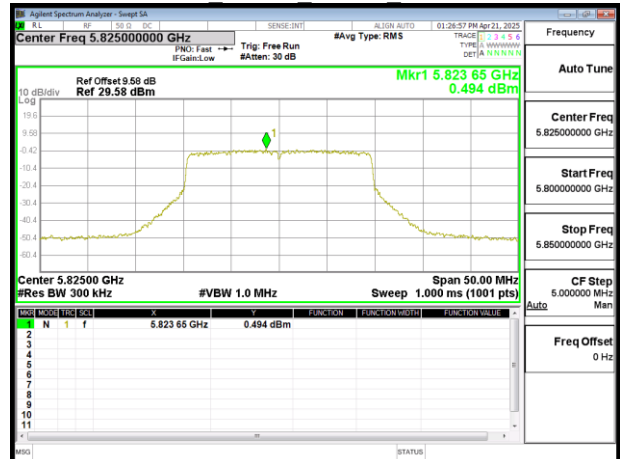
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802.11ax 20MHz Chain1 5240MHz



802.11ax 20MHz Chain1 5825MHz

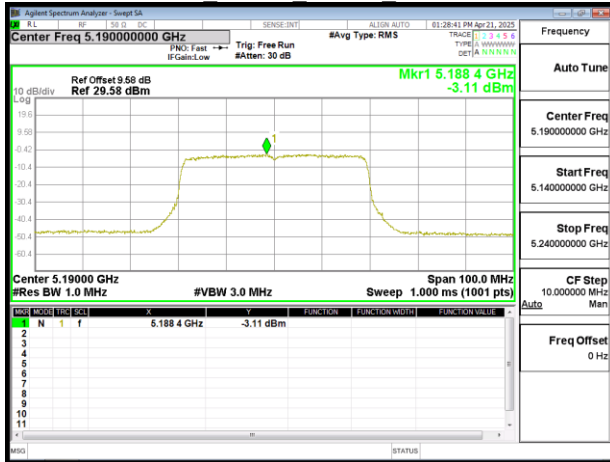




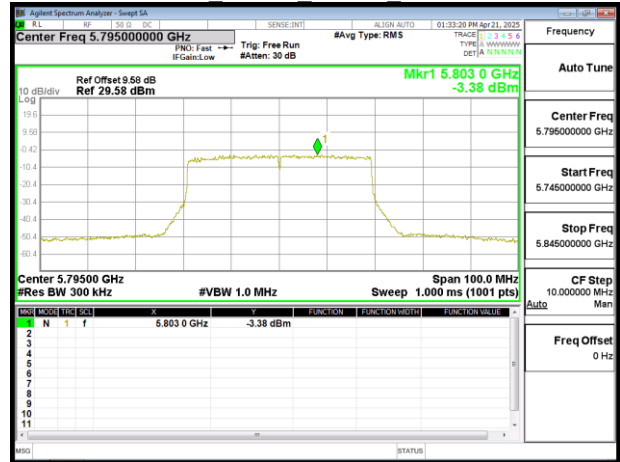
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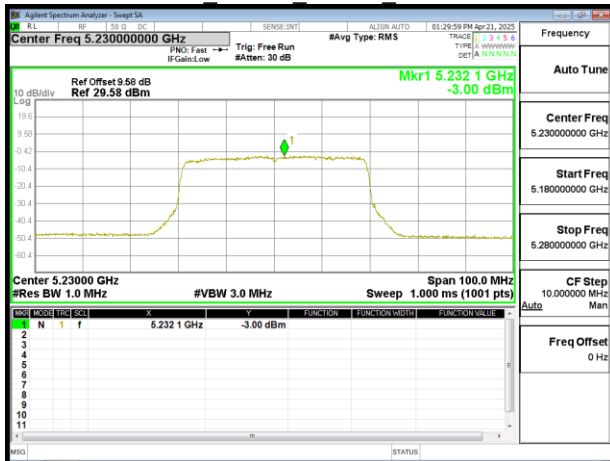
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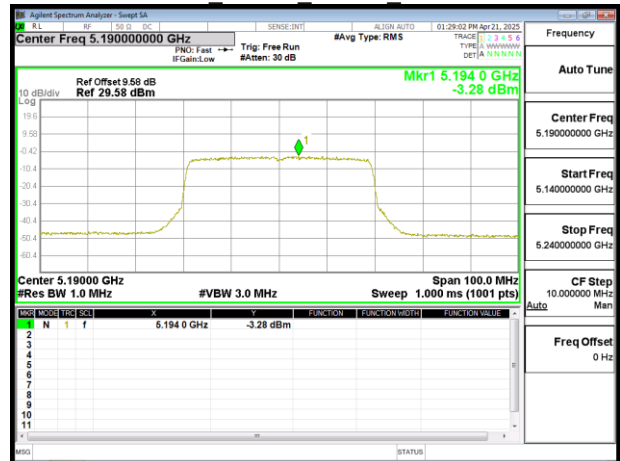
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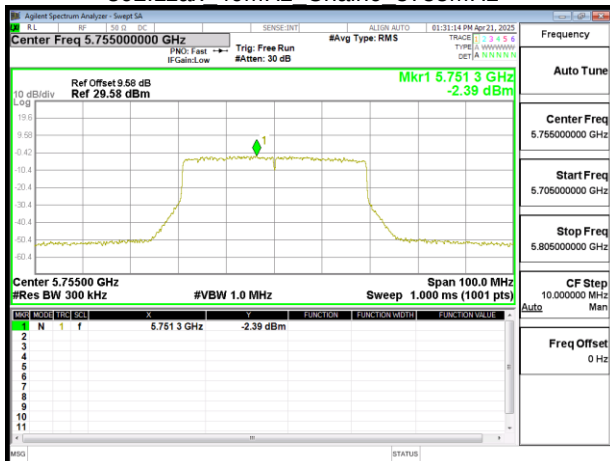
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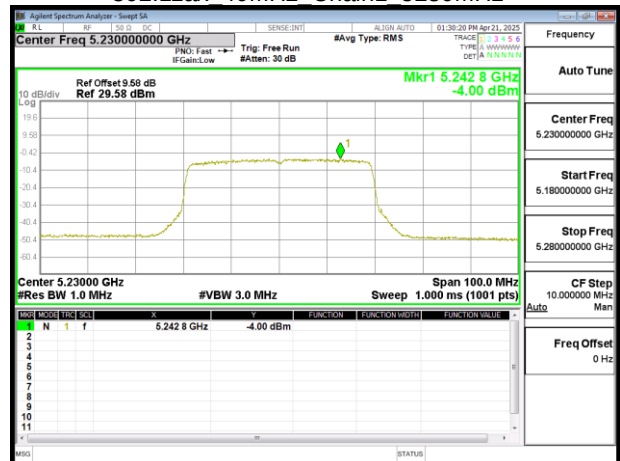
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802.11ax 40MHz Chain0 5755MHz



802.11ax 40MHz Chain1 5230MHz

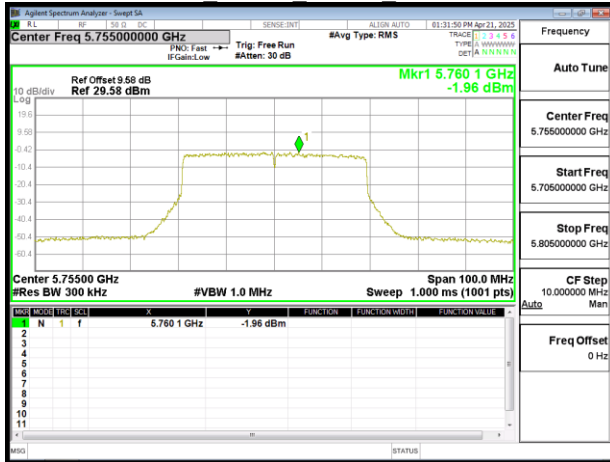




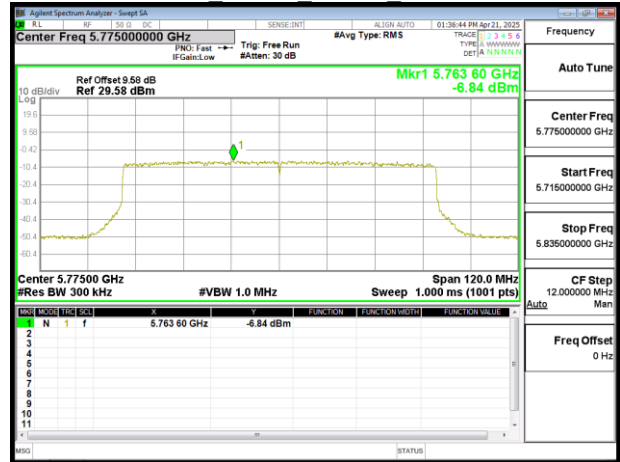
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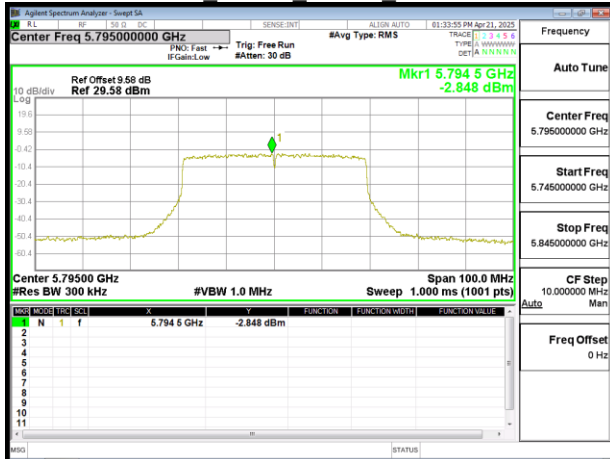
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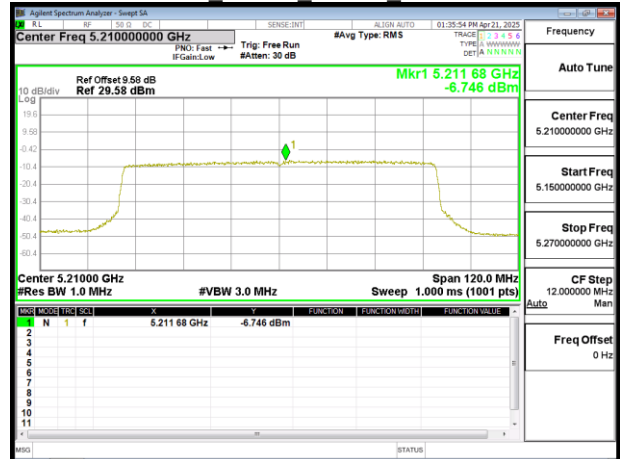
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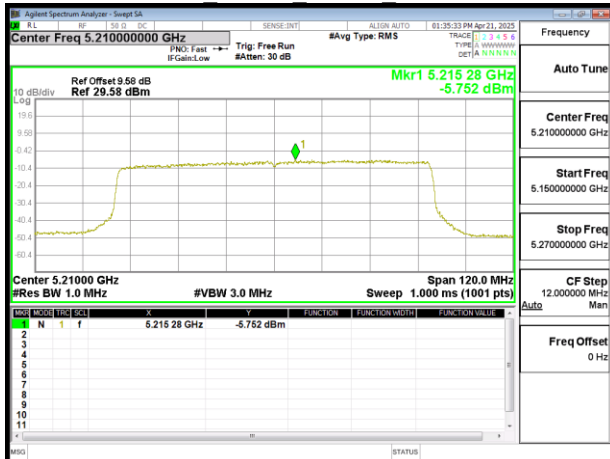
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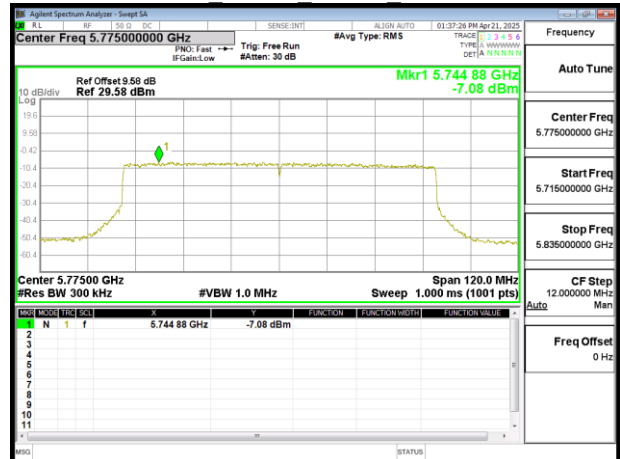
802.11ax 80MHz Chain1 5210MHz



802.11ax 80MHz Chain0 5210MHz



802.11ax 80MHz Chain1 5775MHz



--End of Test Report--