

Appendix A: Test Results of 5GHz Wi-Fi

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Appendix A.1: Test Results of 26dB Bandwidth and 99% Emission Bandwidth

Test Result

U-NII-1:

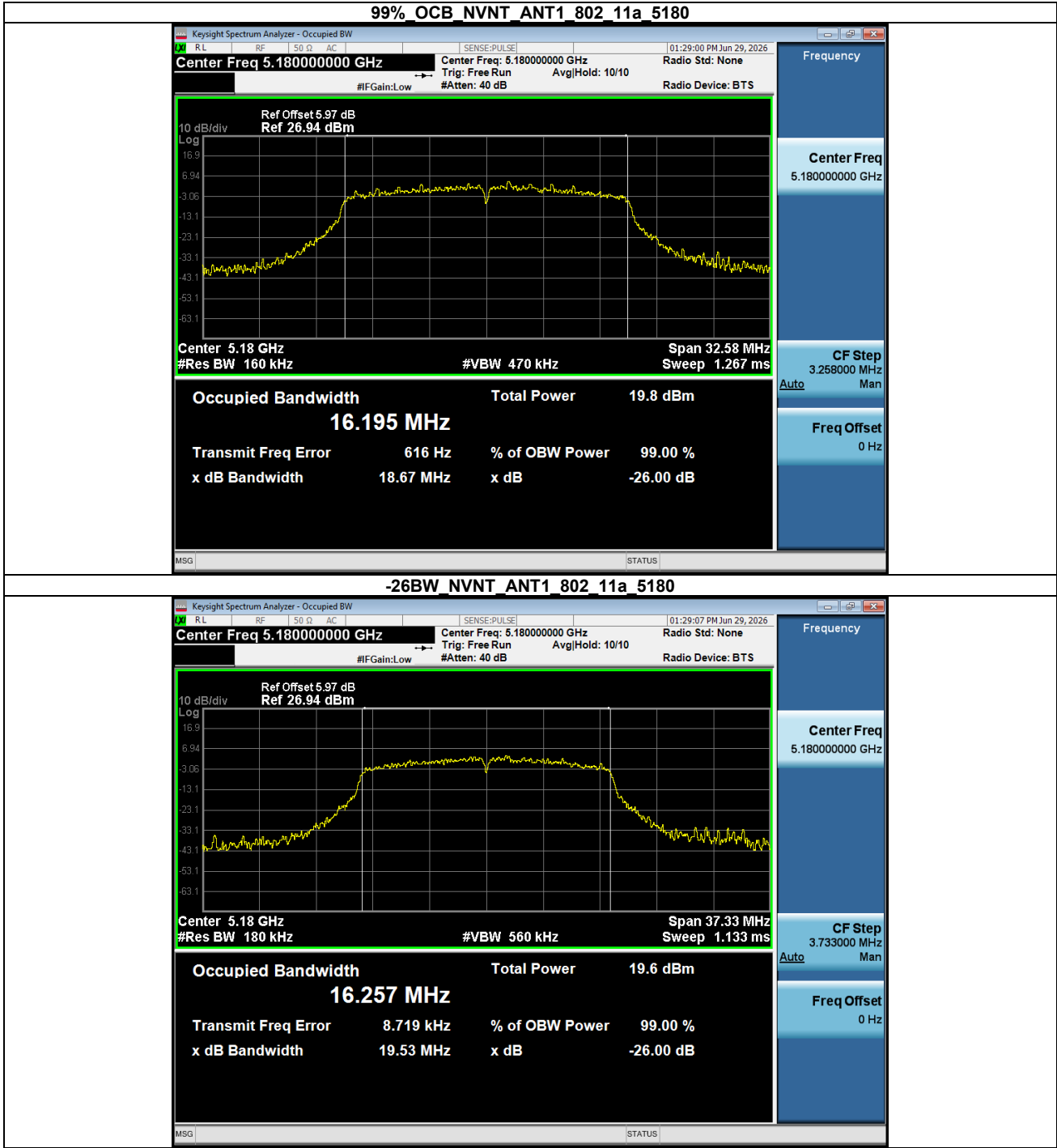
Condition	Antenna	Modulation	Frequency(MHz)	26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.53	16.20
NVNT	ANT1	802.11a	5200.00	19.40	16.24
NVNT	ANT1	802.11a	5240.00	18.85	16.23
NVNT	ANT1	802.11n(HT20)	5180.00	19.98	17.30
NVNT	ANT1	802.11n(HT20)	5200.00	20.22	17.34
NVNT	ANT1	802.11n(HT20)	5240.00	20.03	17.31
NVNT	ANT1	802.11n(HT40)	5190.00	37.82	35.29
NVNT	ANT1	802.11n(HT40)	5230.00	40.38	36.08

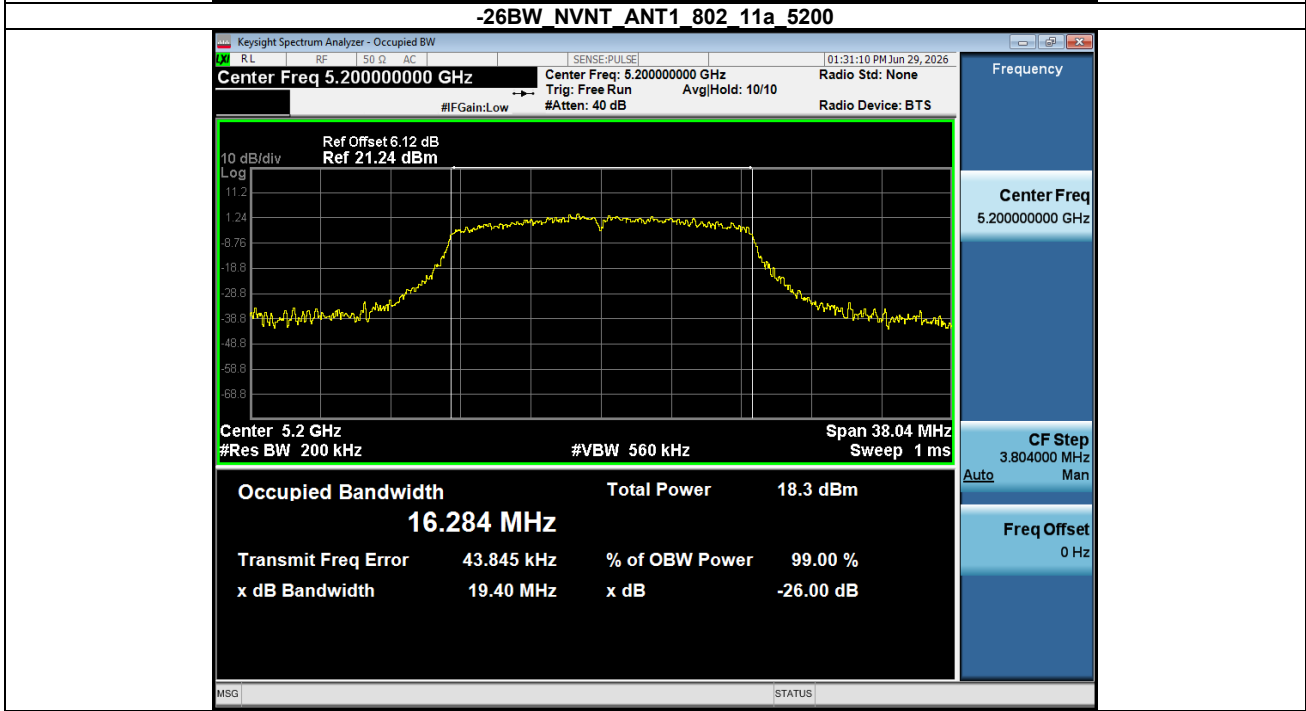
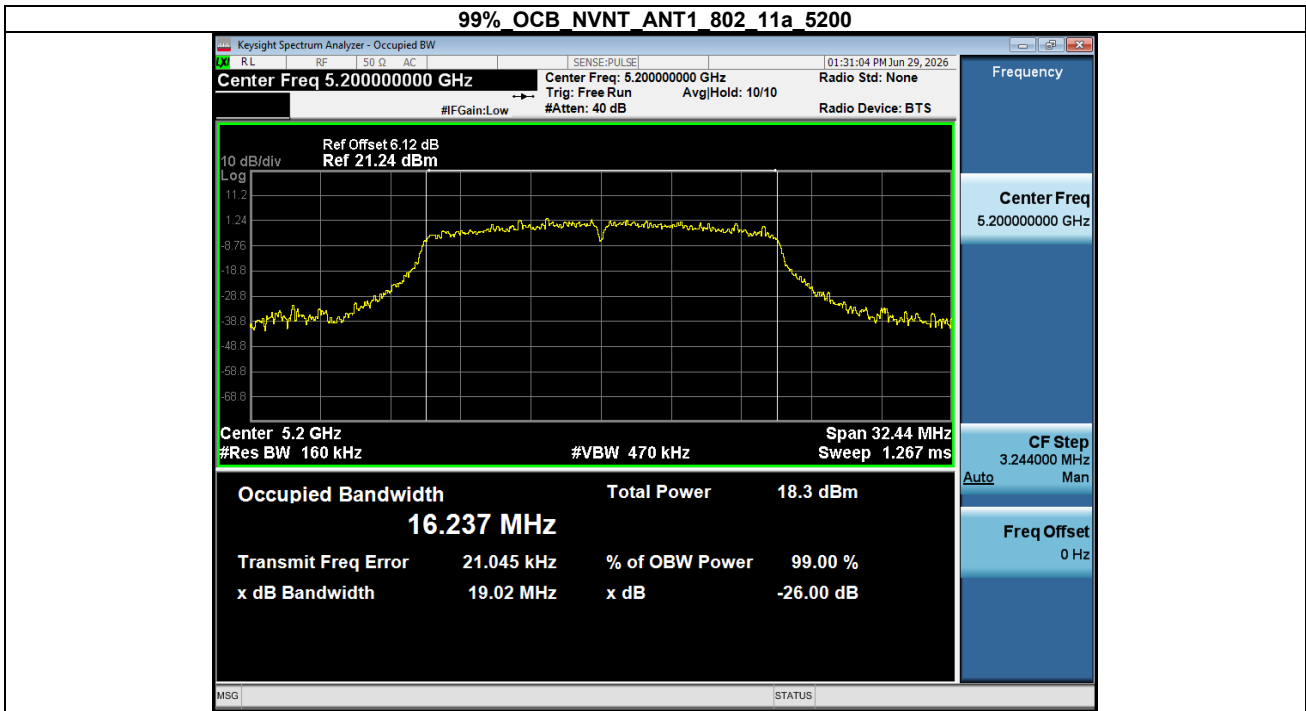
U-NII-3:

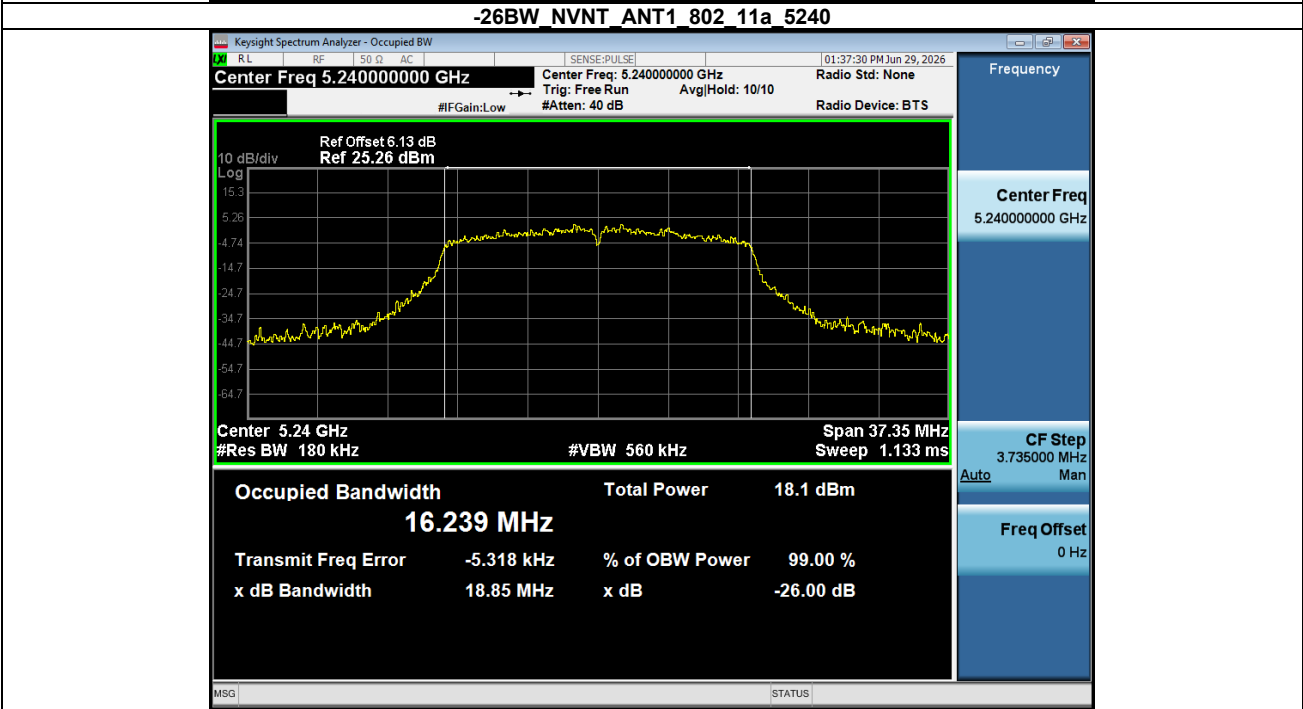
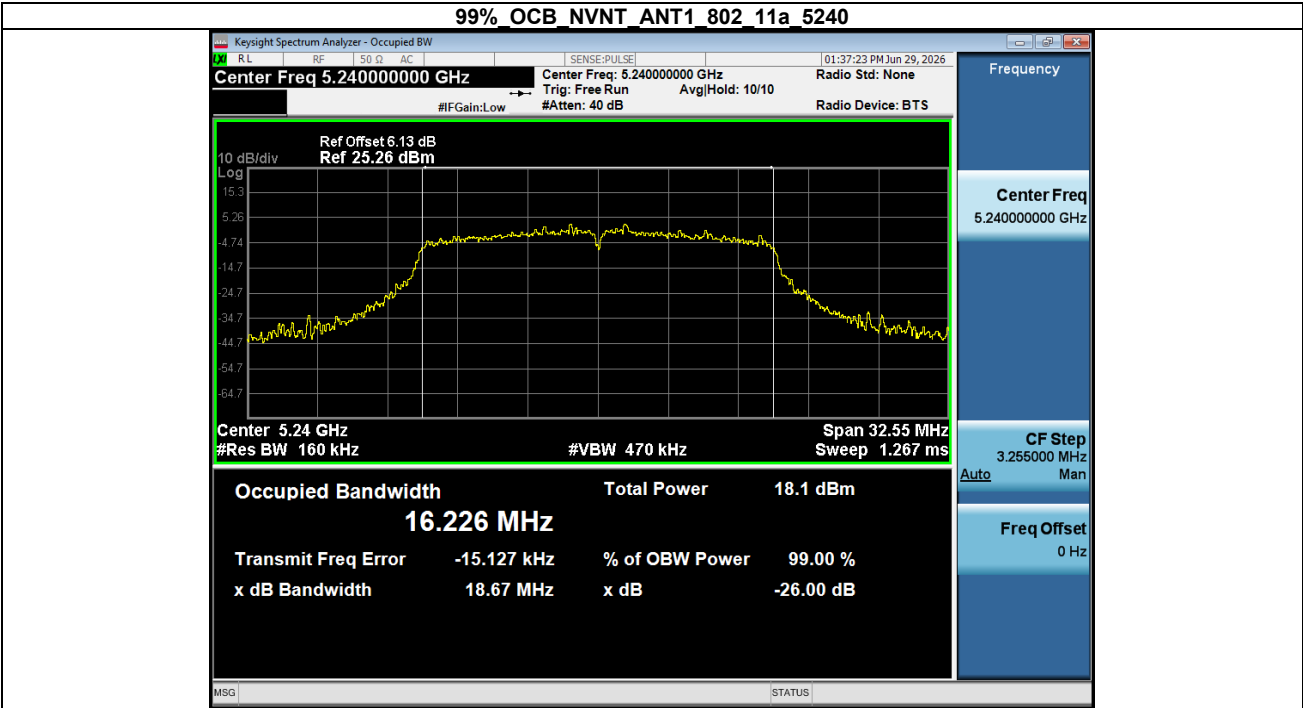
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11a	5745.00	16.536
NVNT	ANT1	802.11a	5785.00	16.626
NVNT	ANT1	802.11a	5825.00	16.509
NVNT	ANT1	802.11n(HT20)	5745.00	17.538
NVNT	ANT1	802.11n(HT20)	5785.00	17.619
NVNT	ANT1	802.11n(HT20)	5825.00	17.535
NVNT	ANT1	802.11n(HT40)	5755.00	35.167
NVNT	ANT1	802.11n(HT40)	5795.00	35.280

Test Graphs

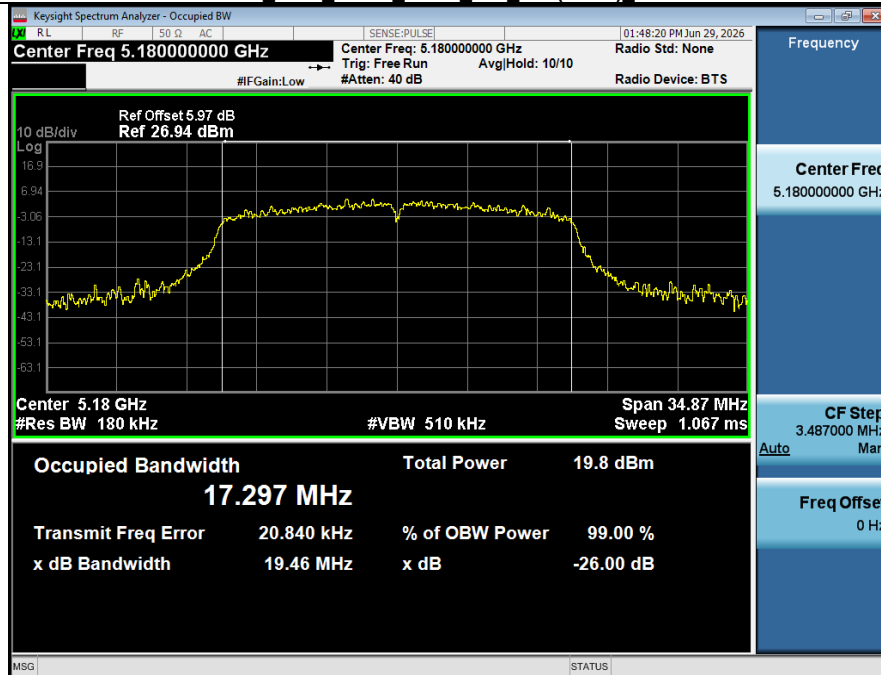
U-NII-1:



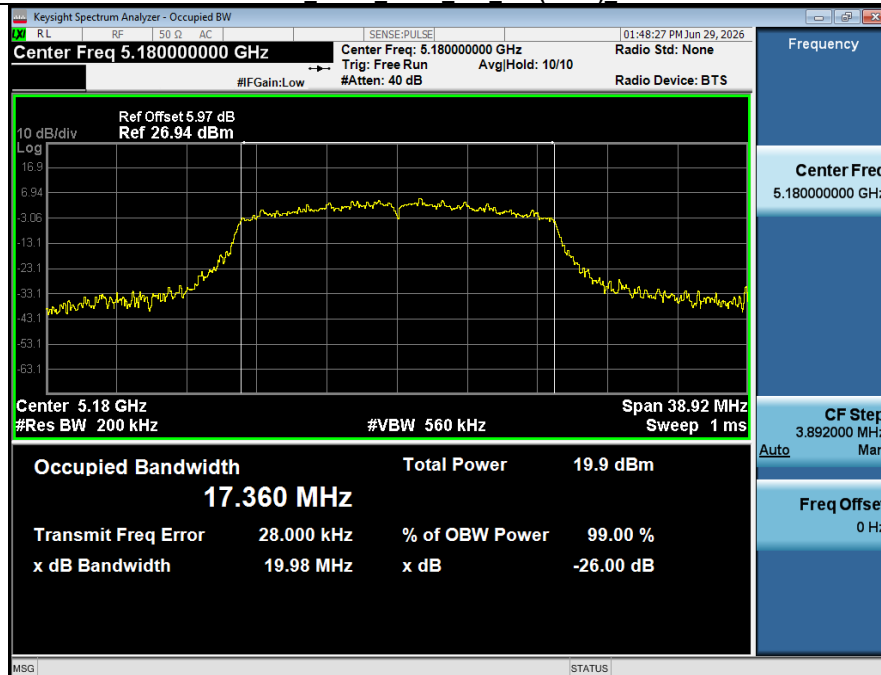




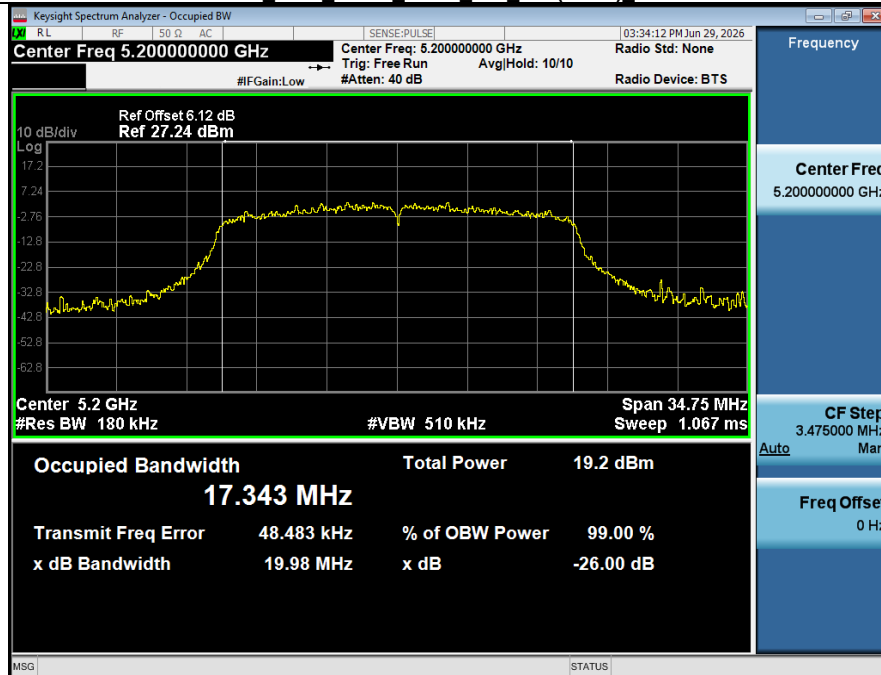
99% OCB NVNT ANT1 802 11n(HT20) 5180



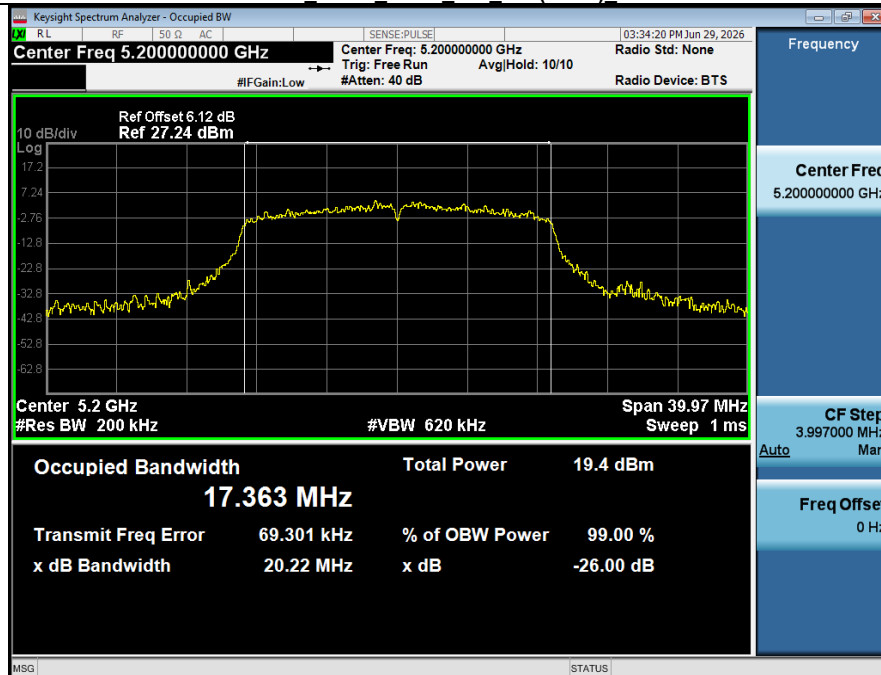
-26BW NVNT ANT1 802 11n(HT20) 5180

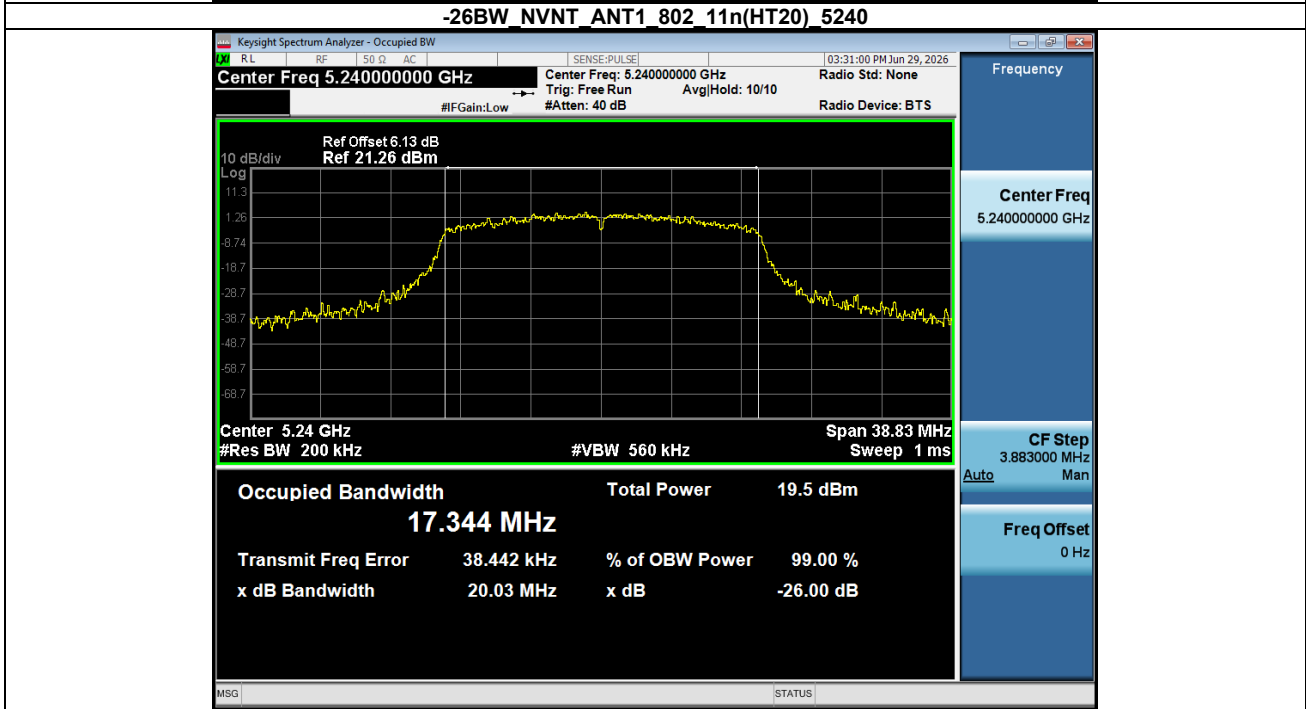
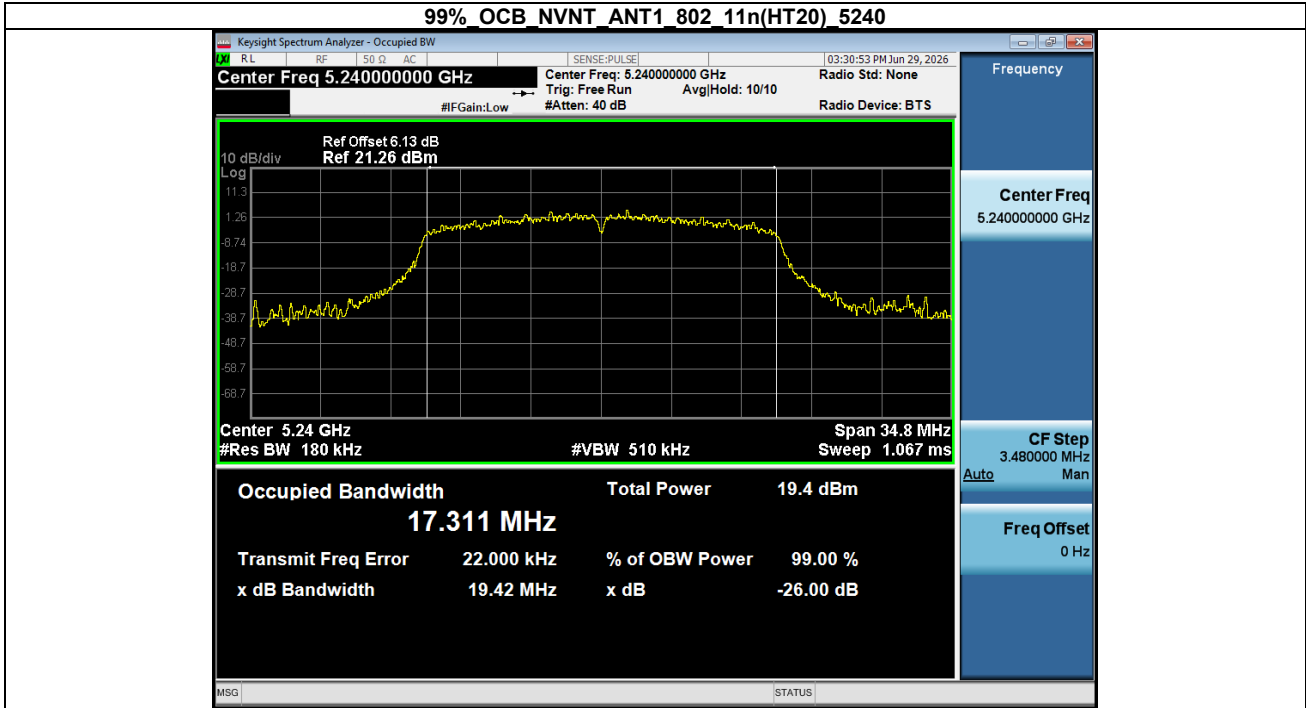


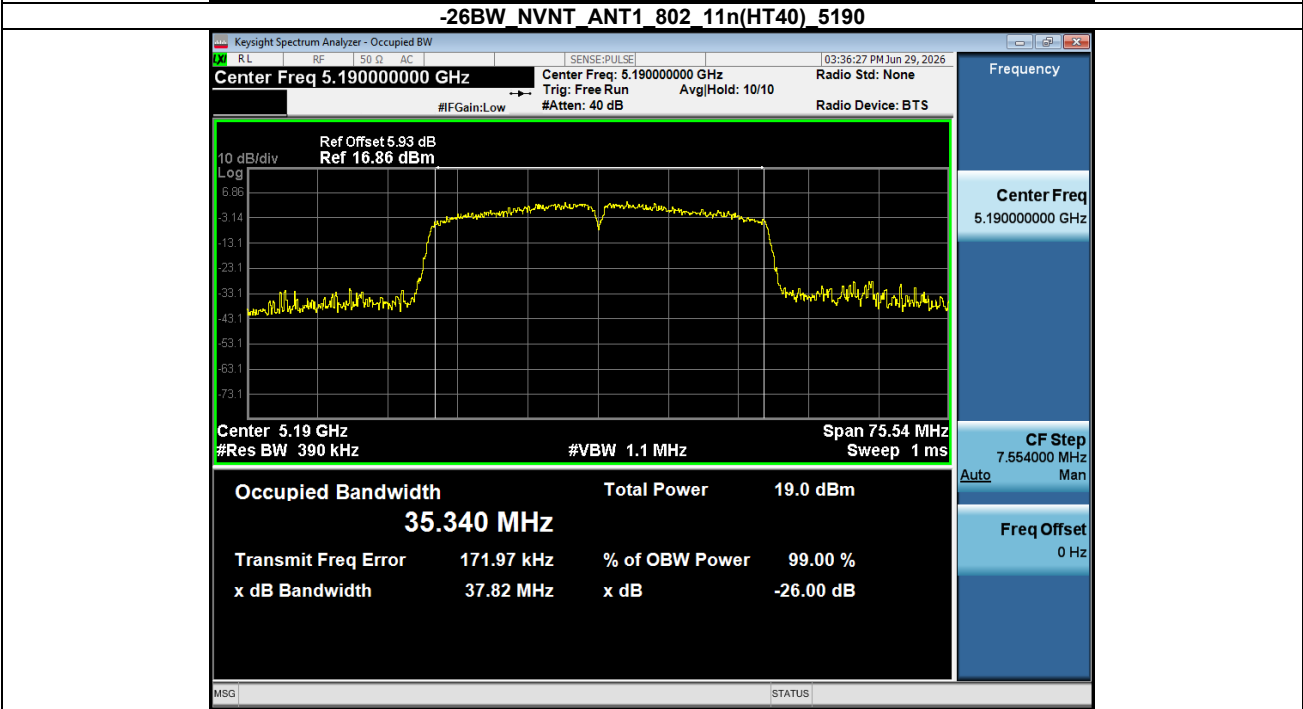
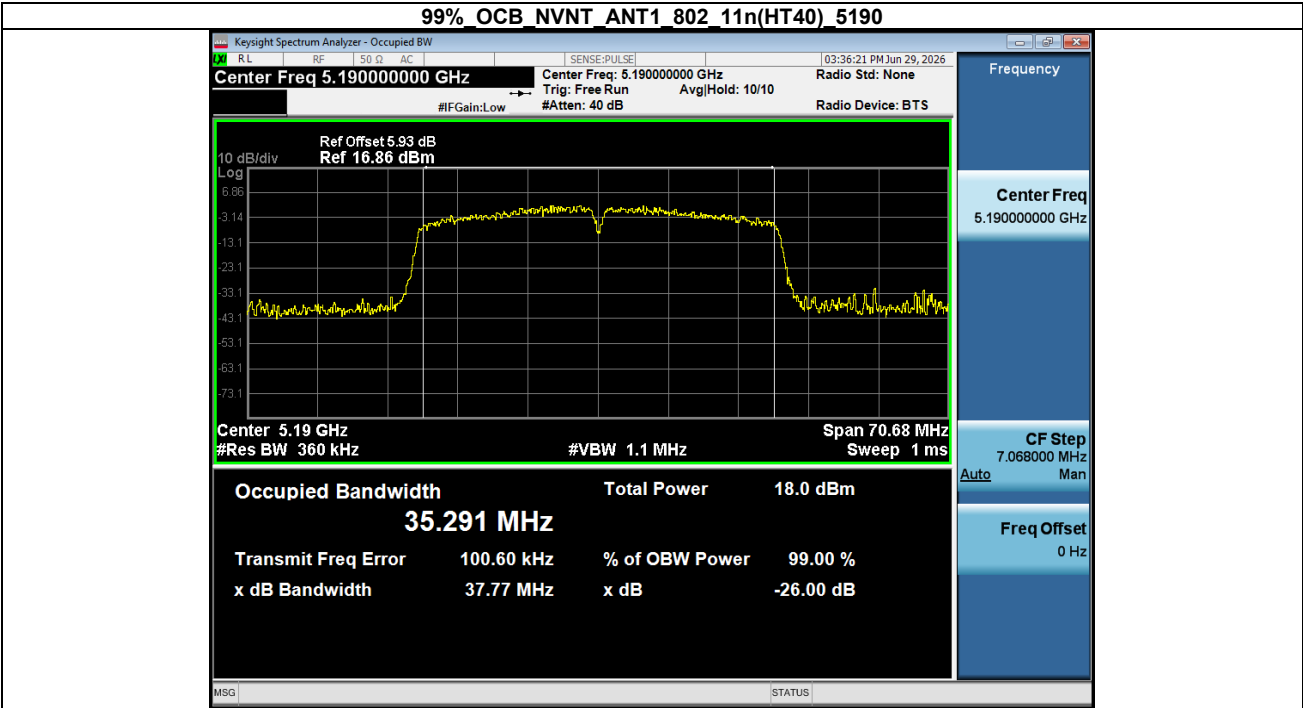
99% OCB NVNT ANT1 802 11n(HT20) 5200

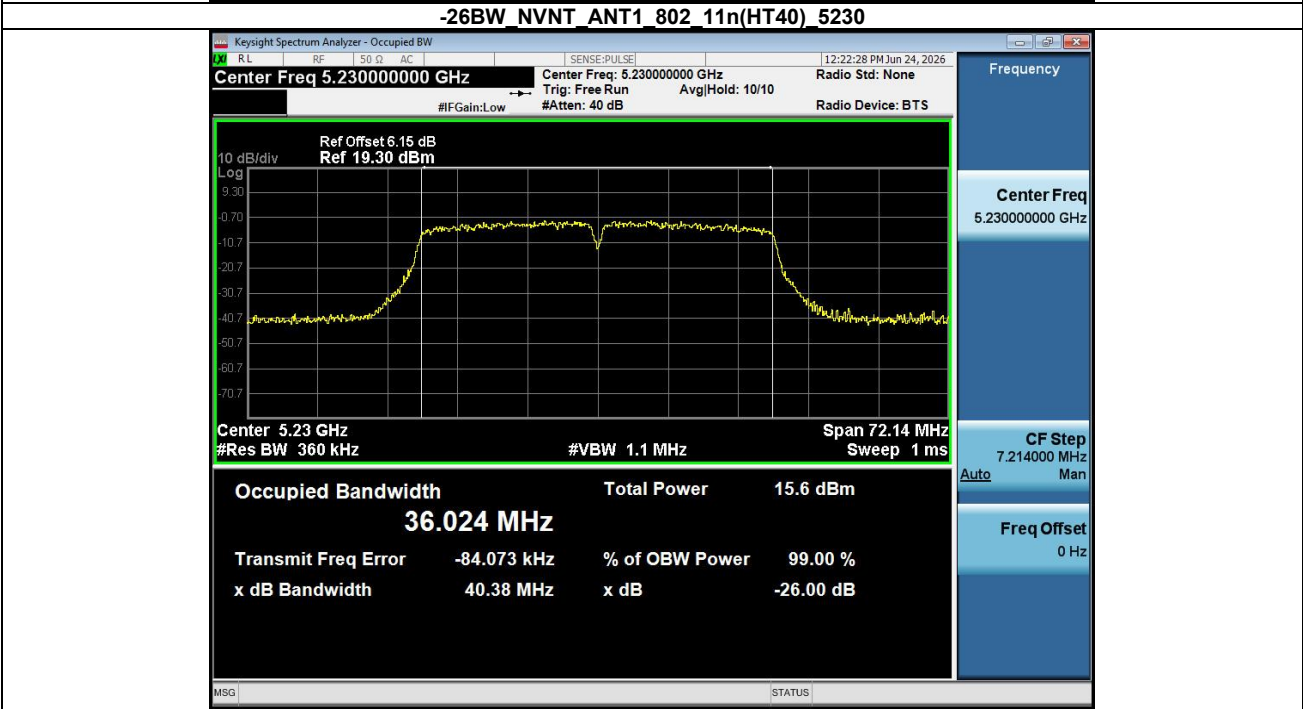
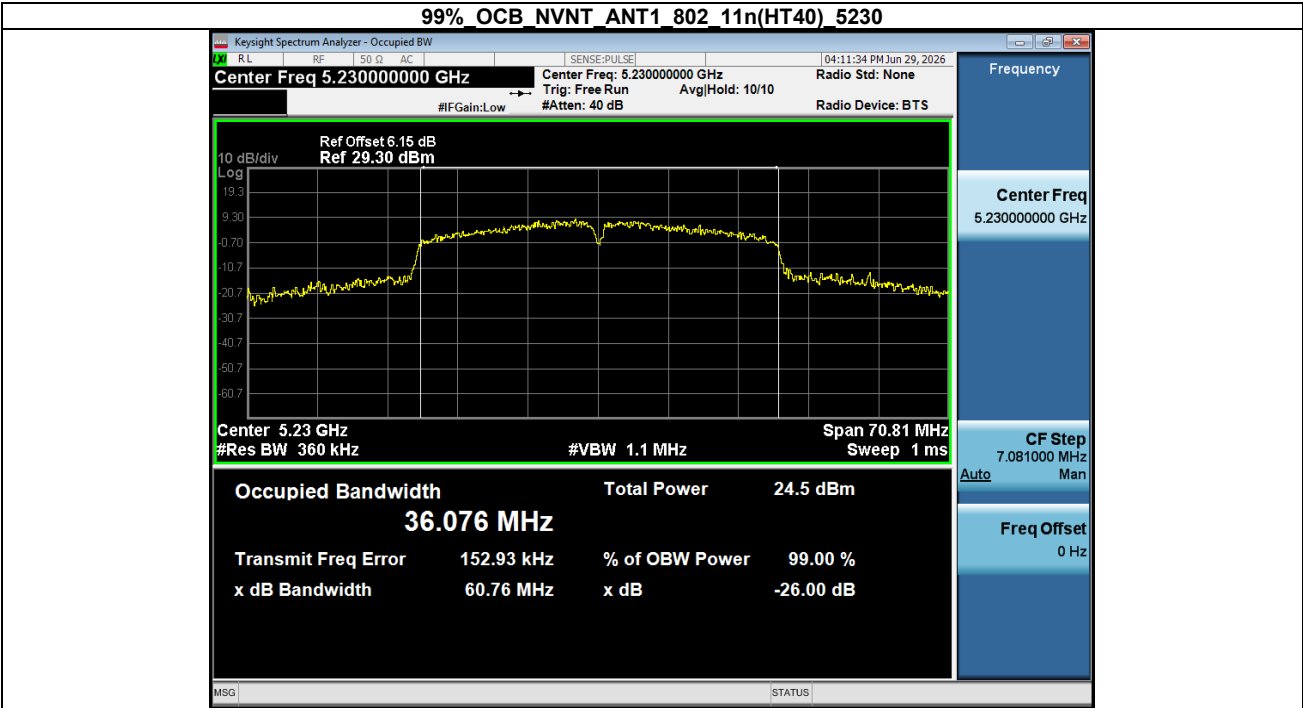


-26BW NVNT ANT1 802 11n(HT20) 5200

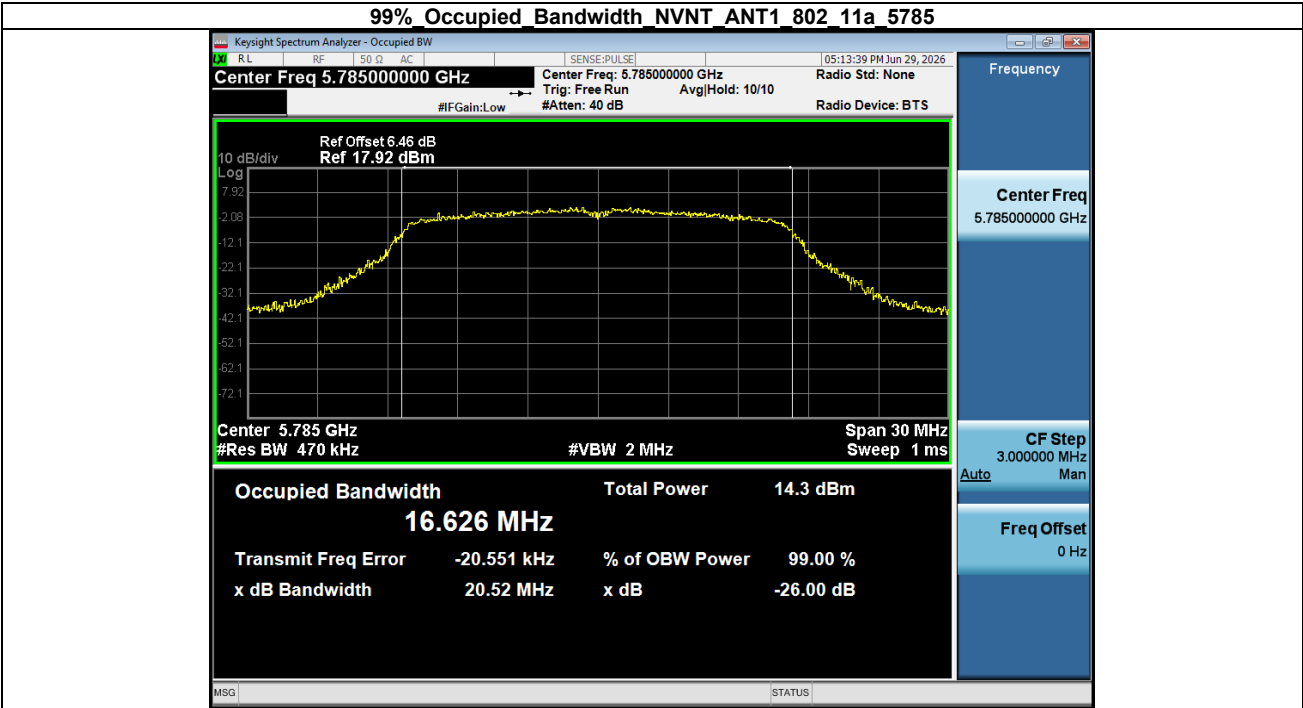
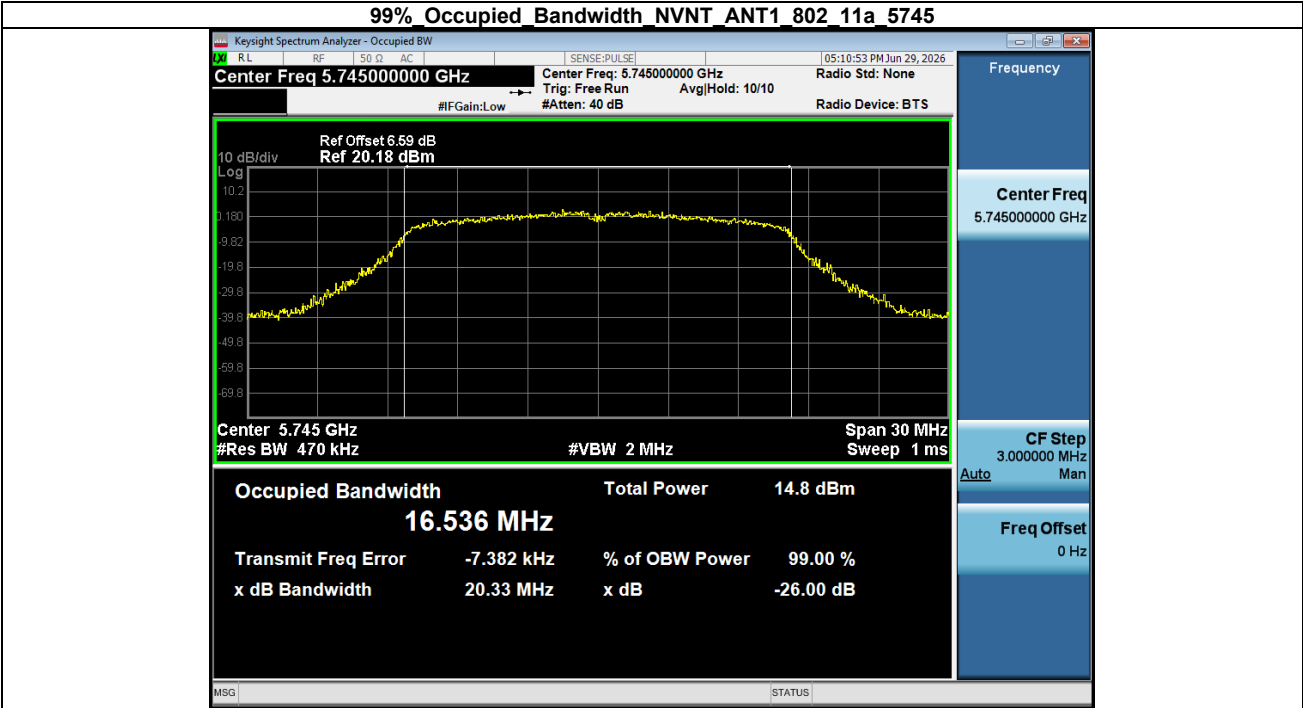


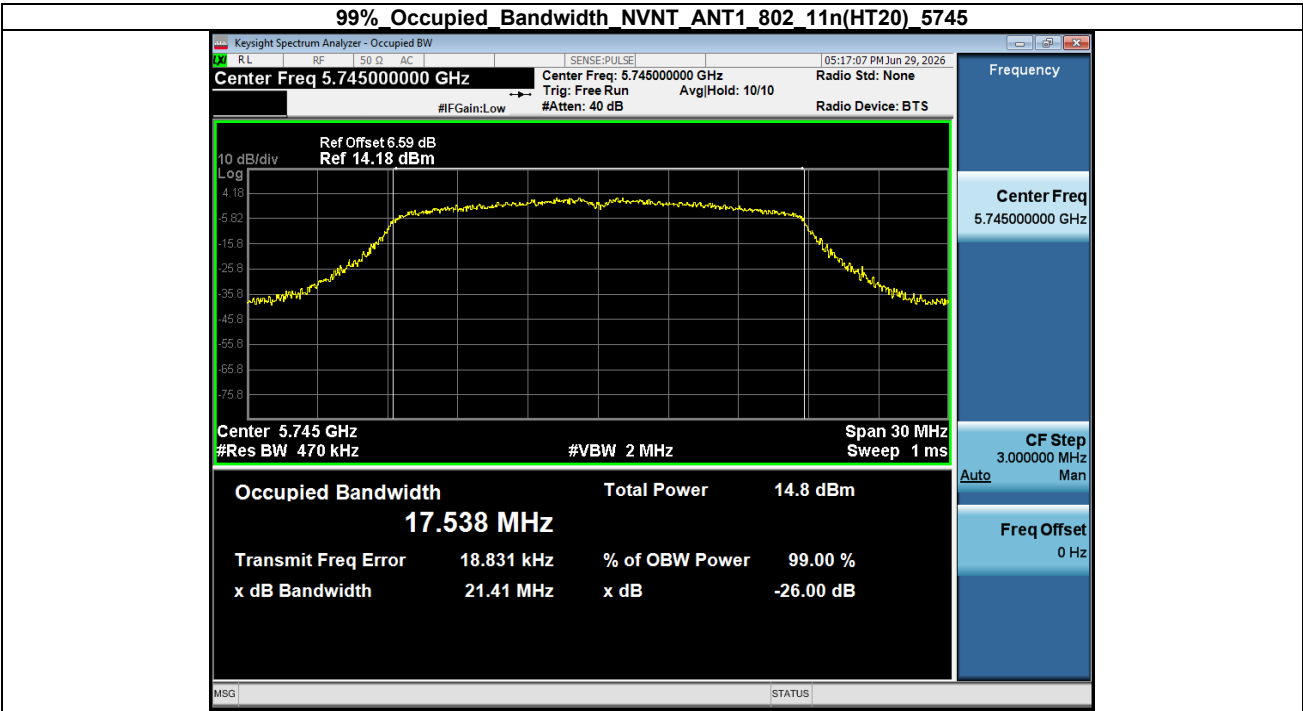






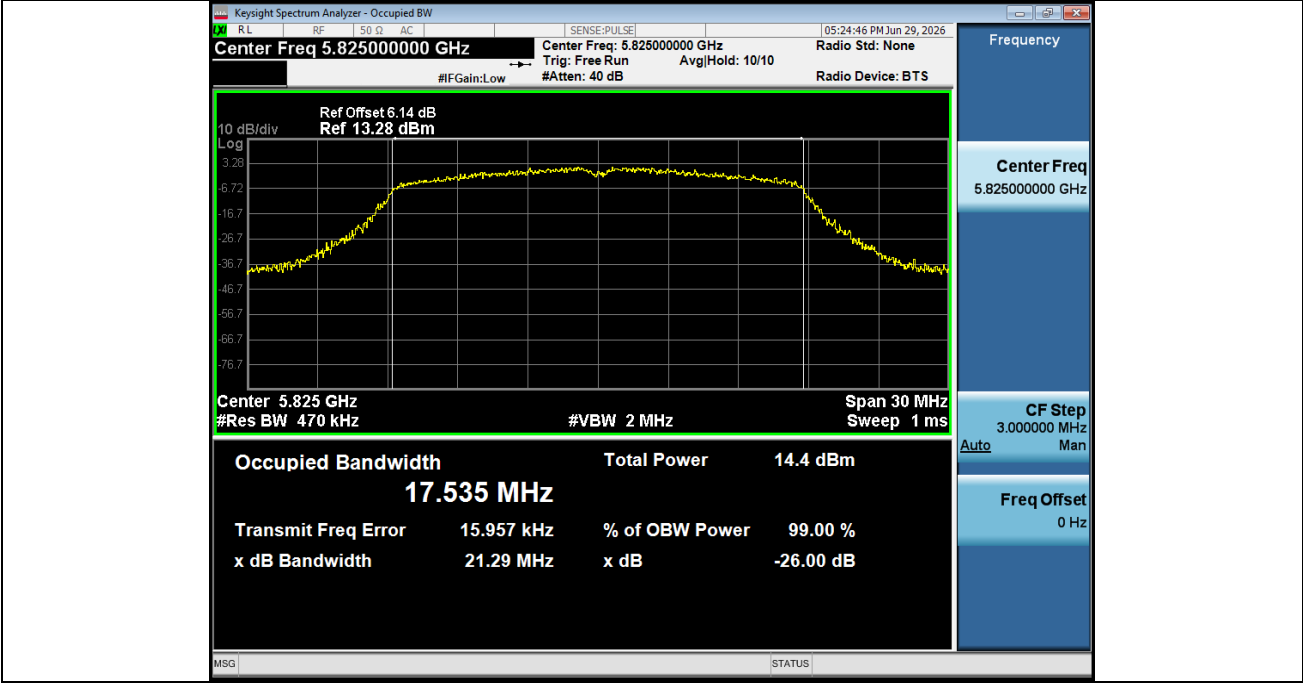
U-NII-3:







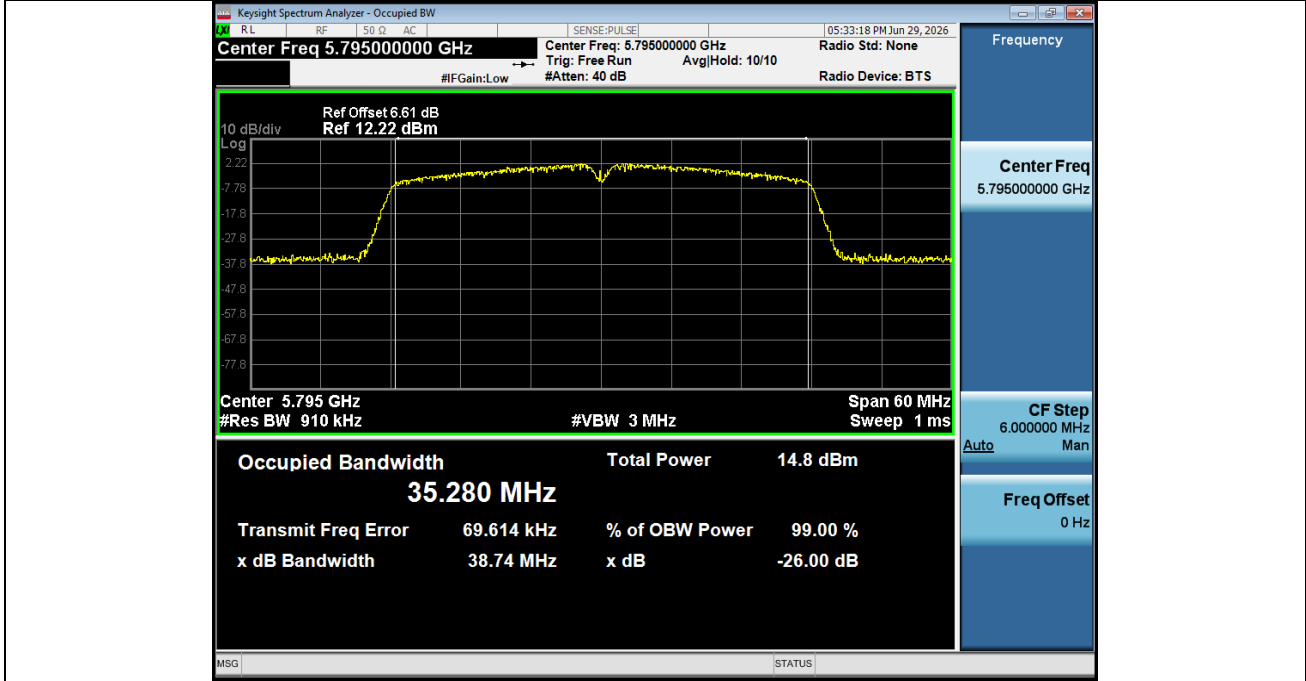
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_5825



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_5755



99% Occupied Bandwidth NVNT ANT1 802 11n(HT40) 5795

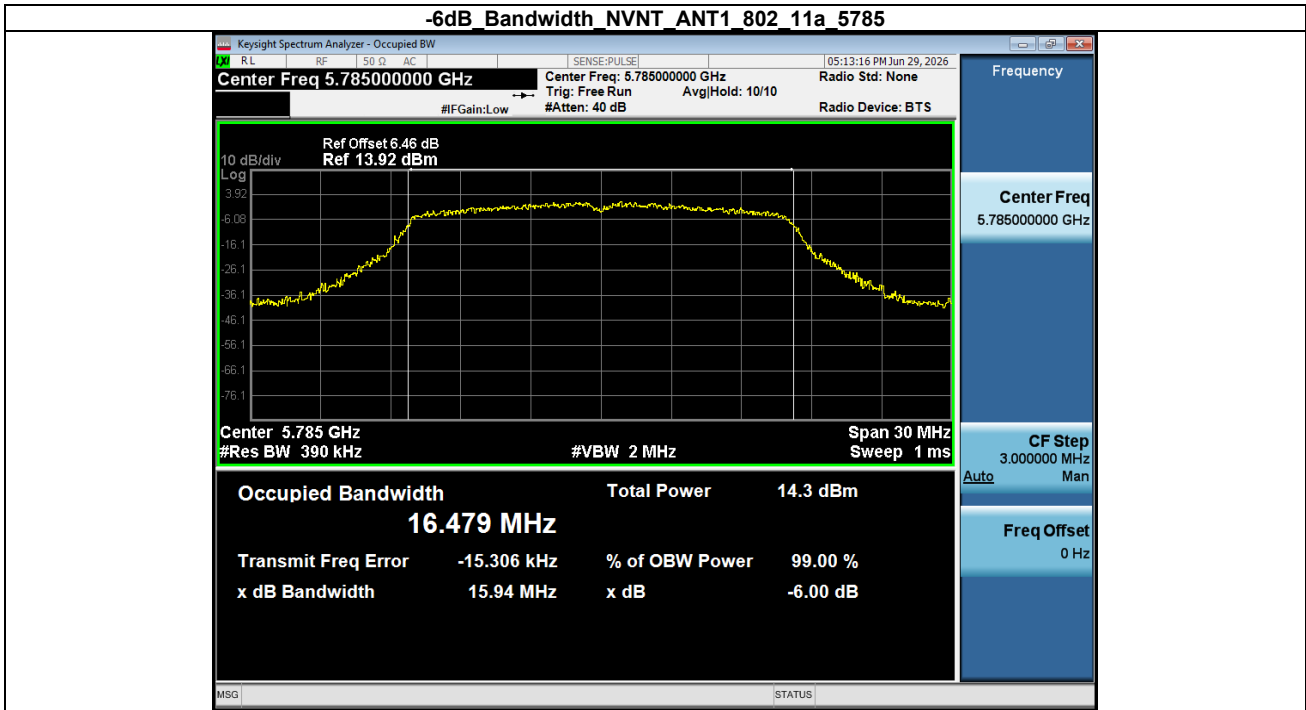
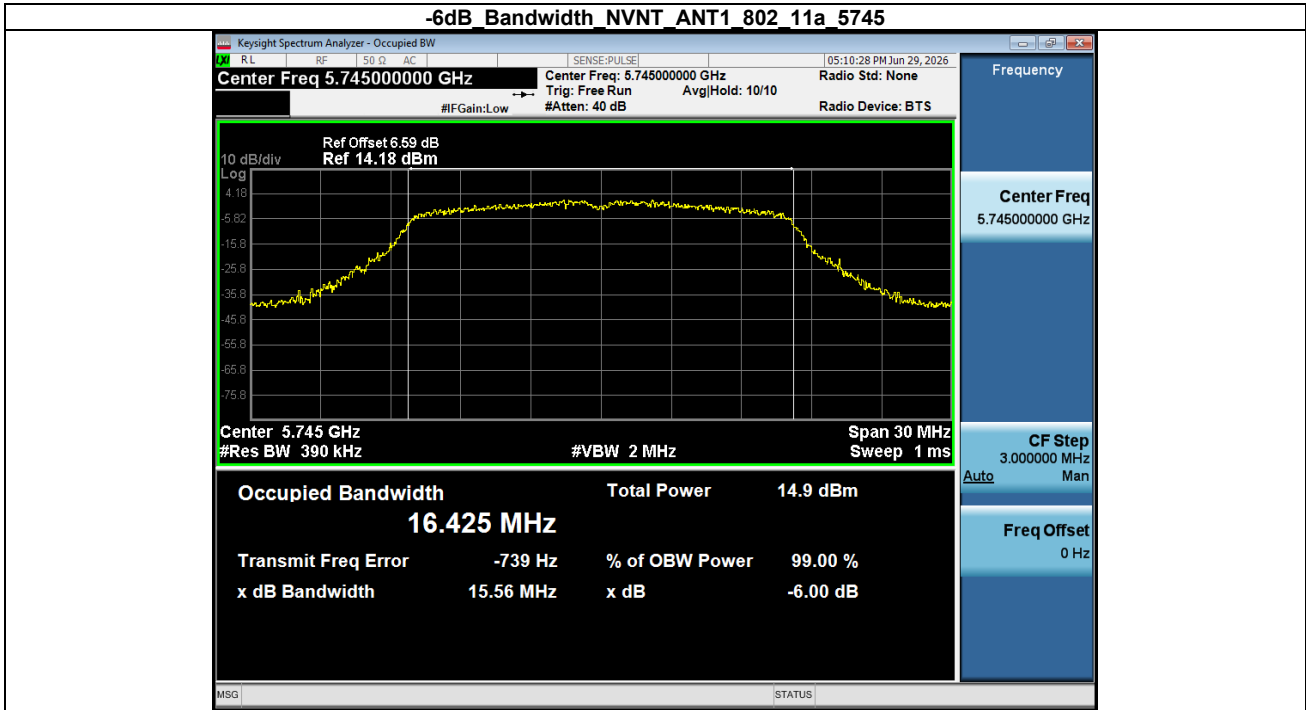


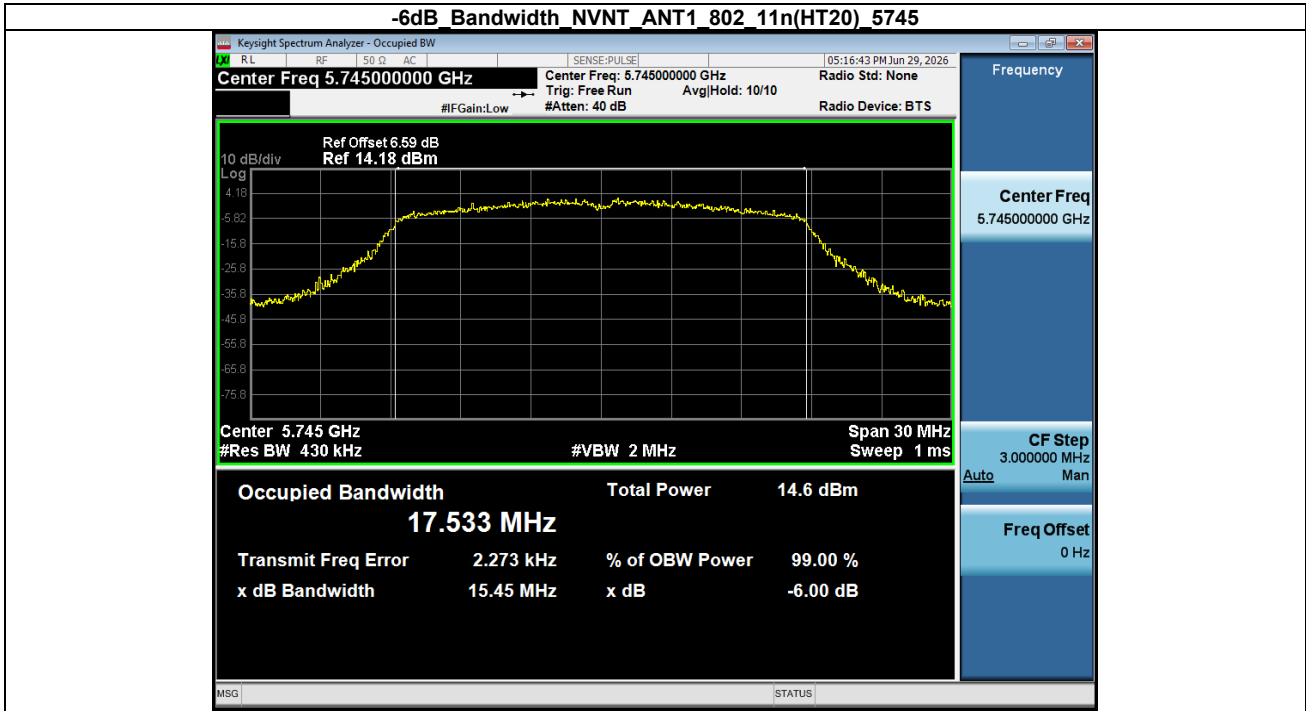
Appendix A.2: Test Results of 6dB Bandwidth

Test Result

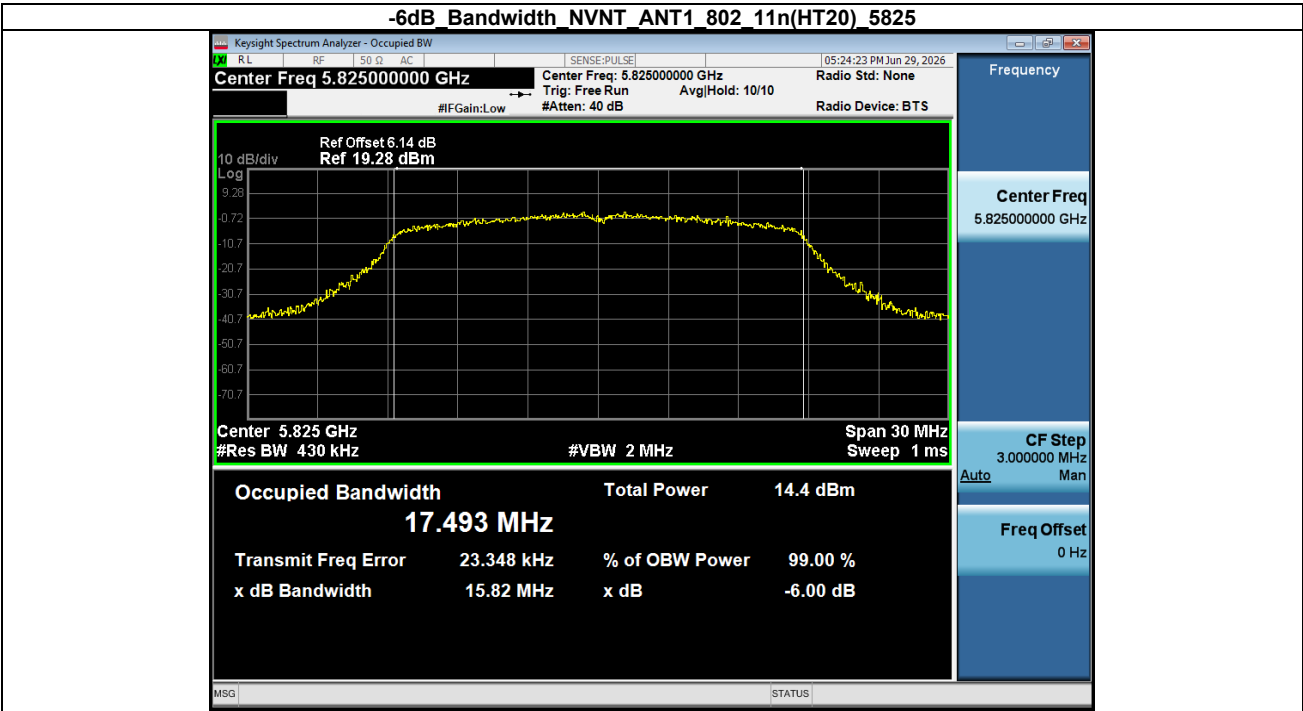
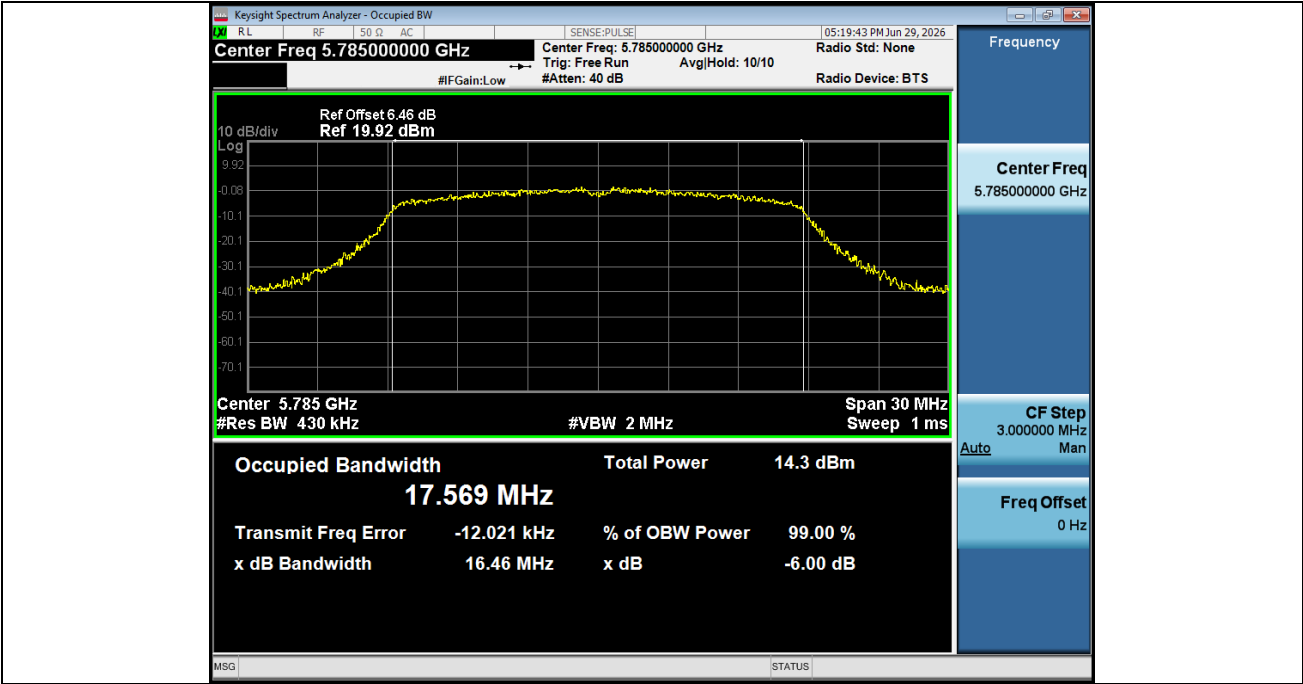
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11a	5745.00	15.56	500	Pass
NVNT	ANT1	802.11a	5785.00	15.94	500	Pass
NVNT	ANT1	802.11a	5825.00	15.58	500	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	15.45	500	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	16.46	500	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	15.82	500	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	32.25	500	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	31.61	500	Pass

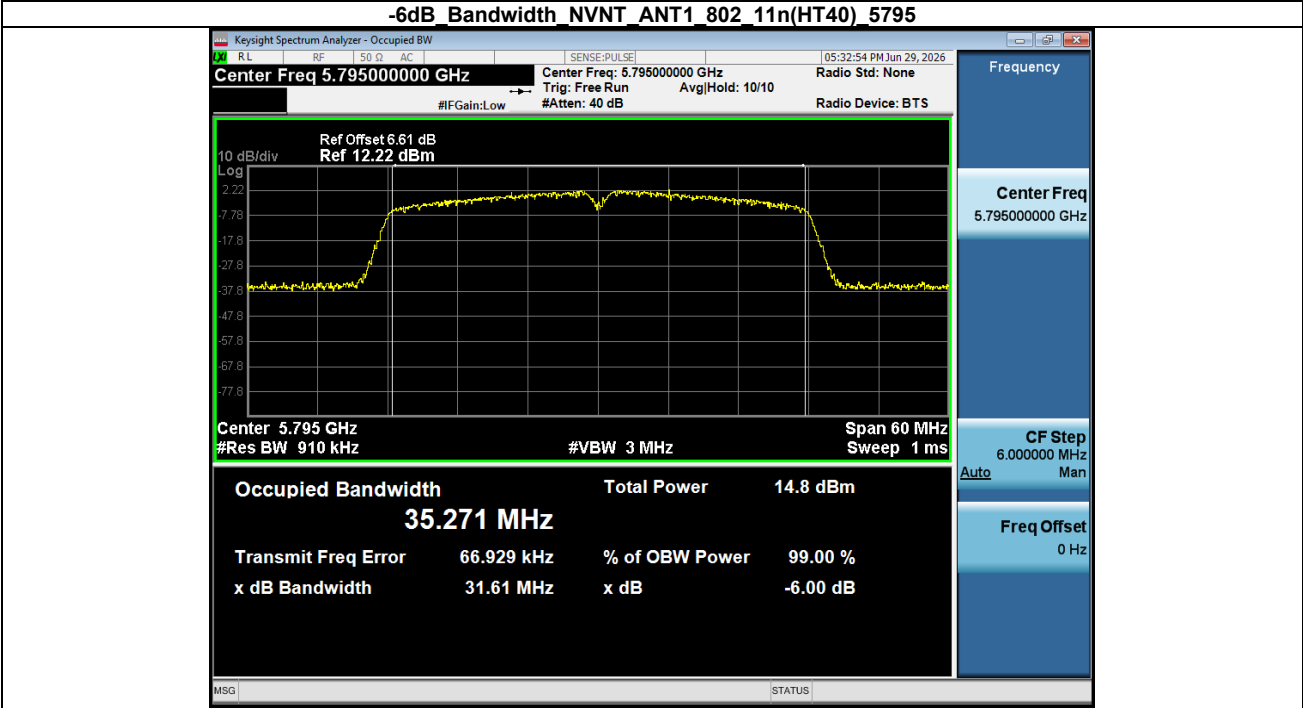
Test Graphs





-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_5785





Appendix A.3: Test Results of Maximum Output Power

Test Result

Conducted Power:

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.29	24	Pass
NVNT	ANT1	802.11a	5200.00	11.97	24	Pass
NVNT	ANT1	802.11a	5240.00	12.45	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	13.26	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.96	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	12.81	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	17.61	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	17.05	24	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	15.25	30	Pass
NVNT	ANT1	802.11a	5785.00	14.58	30	Pass
NVNT	ANT1	802.11a	5825.00	14.88	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	15.03	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	14.59	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	14.64	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	14.14	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	14.32	30	Pass

ISED EIRP for U-NII 1 (5150-5250 MHz)

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	EIRP Power(dBm)	EIRP limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.29	15.81	22.09	Pass
NVNT	ANT1	802.11a	5200.00	11.97	15.49	22.09	Pass
NVNT	ANT1	802.11a	5240.00	12.45	15.97	22.09	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	13.26	16.78	22.38	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	12.96	16.48	22.38	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	12.81	16.33	22.38	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	17.61	21.13	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	17.05	20.57	24	Pass

Appendix A.4: Test Results of Conducted Power Spectral Density

Test Result

Conducted PSD

Condition	Antenna	Modulation	Frequency (MHz)	PSD (dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	-1.95	11	Pass
NVNT	ANT1	802.11a	5200.00	-2.16	11	Pass
NVNT	ANT1	802.11a	5240.00	-1.94	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-1.41	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-1.73	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-1.79	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-3.95	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-3.70	11	Pass

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/RBW)	Limit (dBm/500kHz)	Result
NVNT	ANT1	802.11a	5745.00	-2.20	30	Pass
NVNT	ANT1	802.11a	5785.00	-3.81	30	Pass
NVNT	ANT1	802.11a	5825.00	-2.13	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-2.30	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-3.21	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-3.62	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-7.23	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-6.85	30	Pass

(U-NII-1) ISSED EIRP (dBm/MHz)

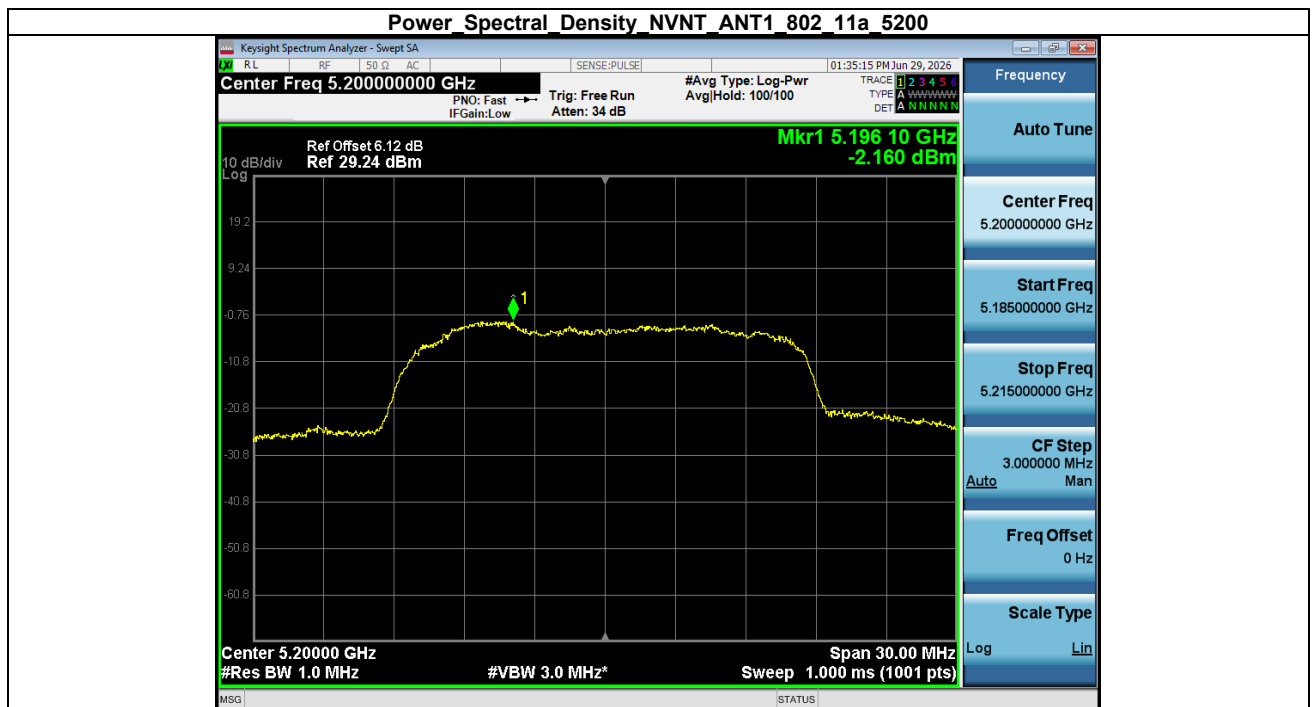
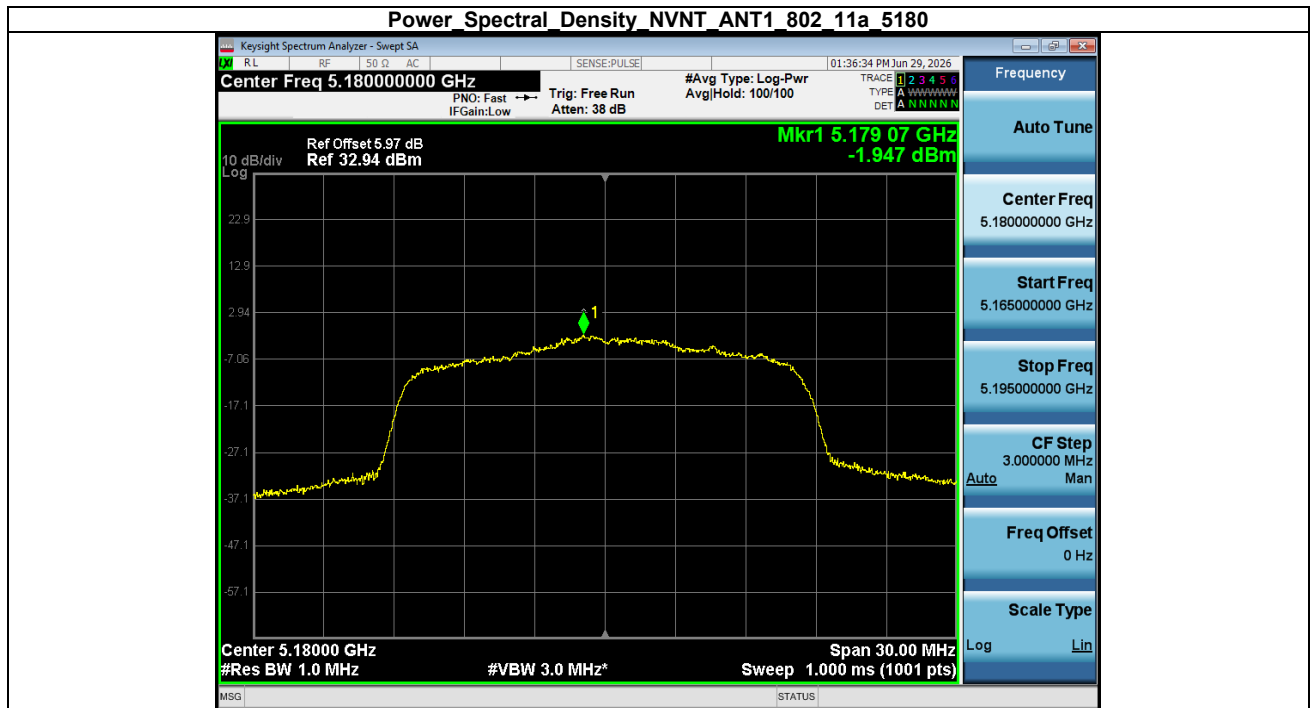
Condition	Antenna	Modulation	Frequency (MHz)	PSD (dBm/MHz)	EIRP Power (dBm/MHz)	EIRP limit(dBm/MHz)	Result
NVNT	ANT1	802.11a	5180.00	-1.60	1.57	10	Pass
NVNT	ANT1	802.11a	5200.00	-1.92	1.36	10	Pass
NVNT	ANT1	802.11a	5240.00	-1.64	1.58	10	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-0.68	2.11	10	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-1.73	1.79	10	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-0.95	1.73	10	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	1.04	-0.43	10	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	0.25	-0.18	10	Pass

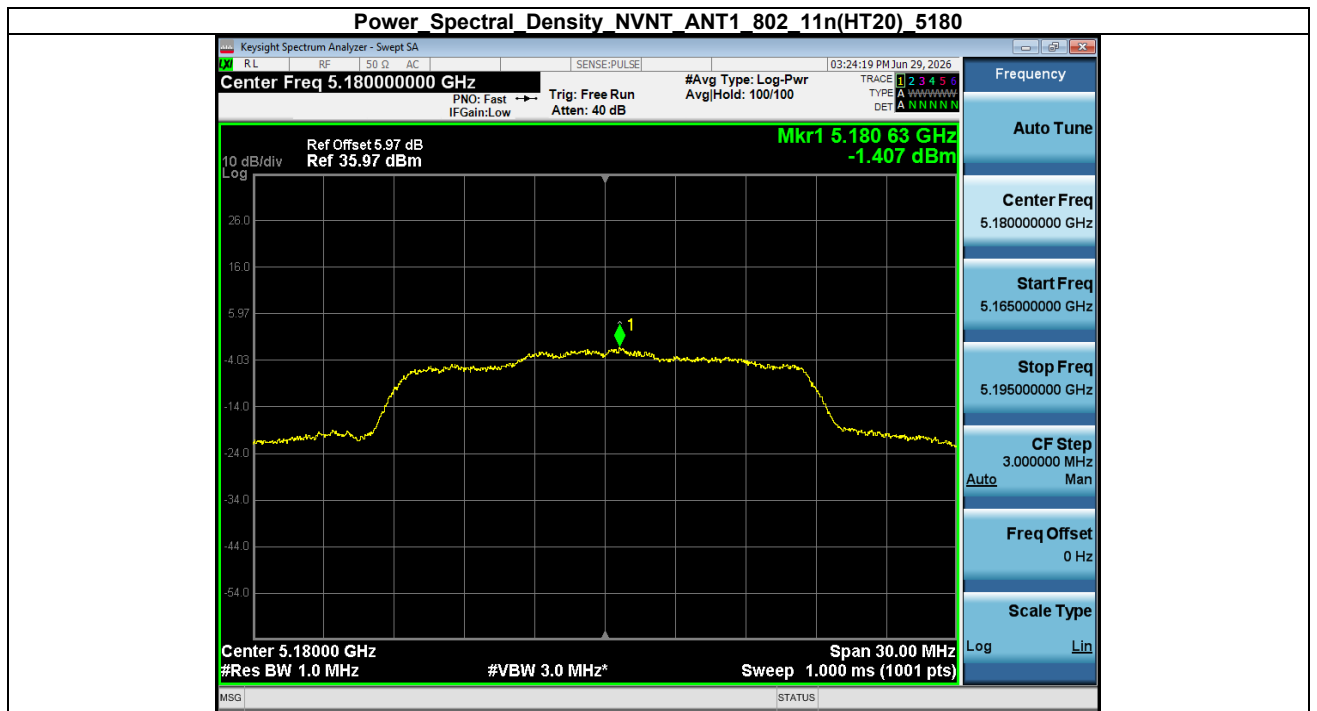
Note:

- 1) The Duty Cycle Factor is compensated in the graph.
- 2); e.i.r.p.=P(Conducted power)+ G (3.52dBi)

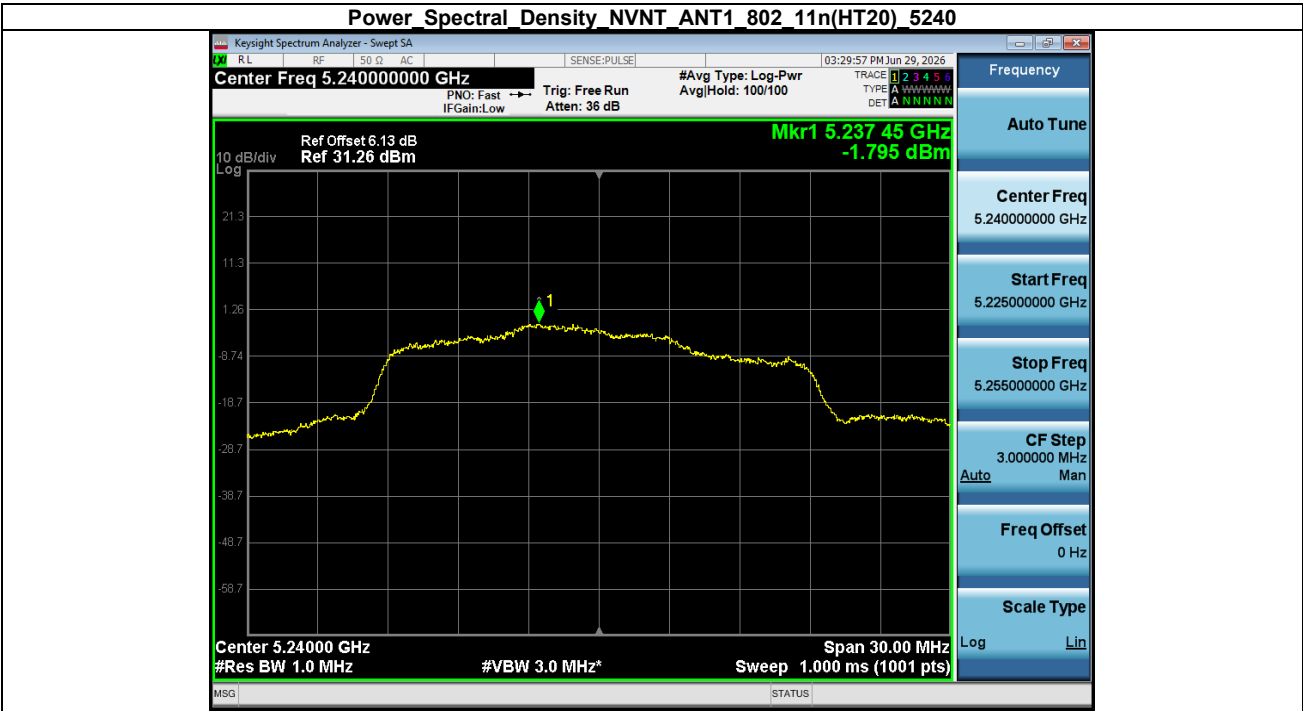
Test Graphs

U-NII-1:

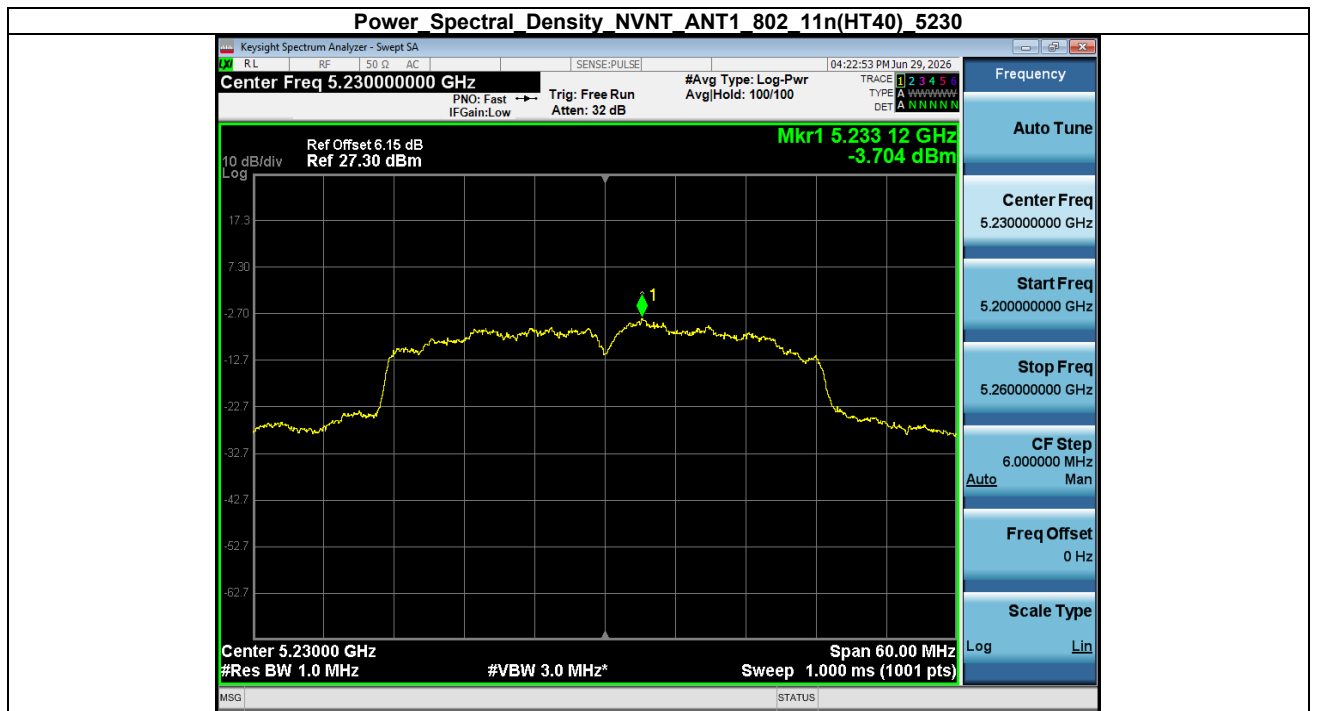




Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



U-NII-3:

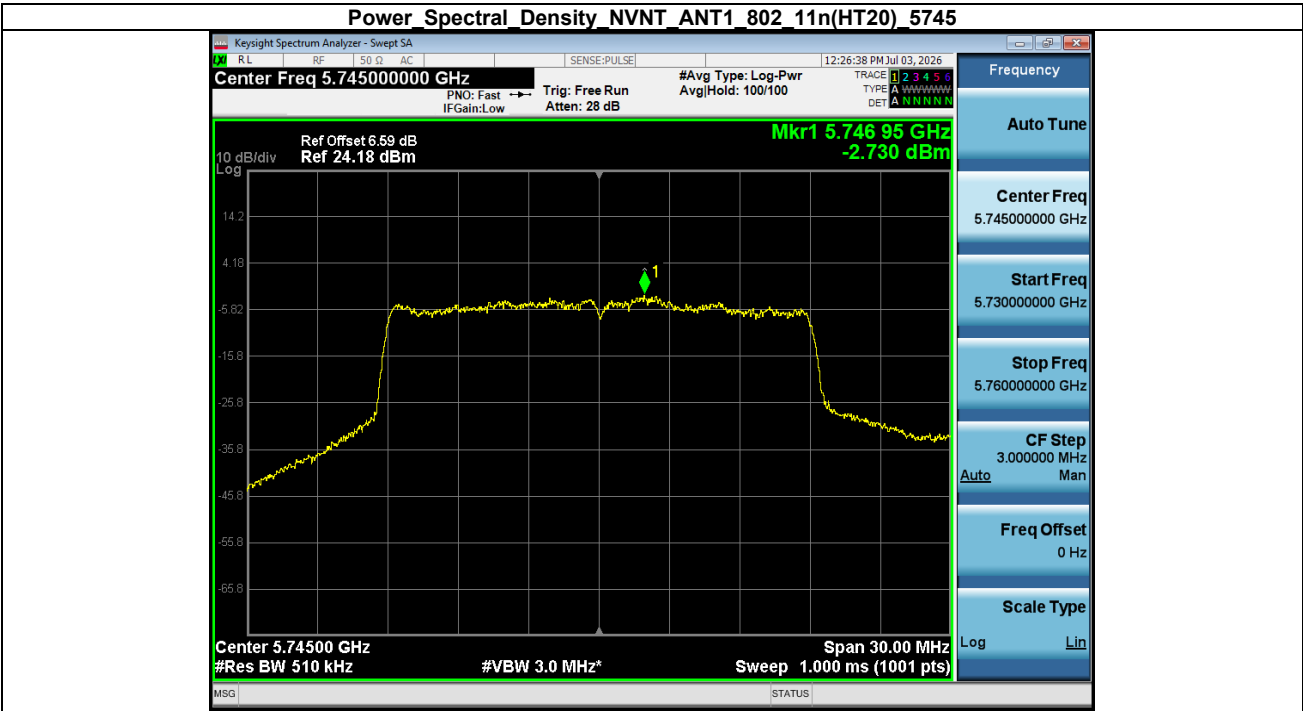
Power_Spectral_Density_NVNT_ANT1_802_11a_5745



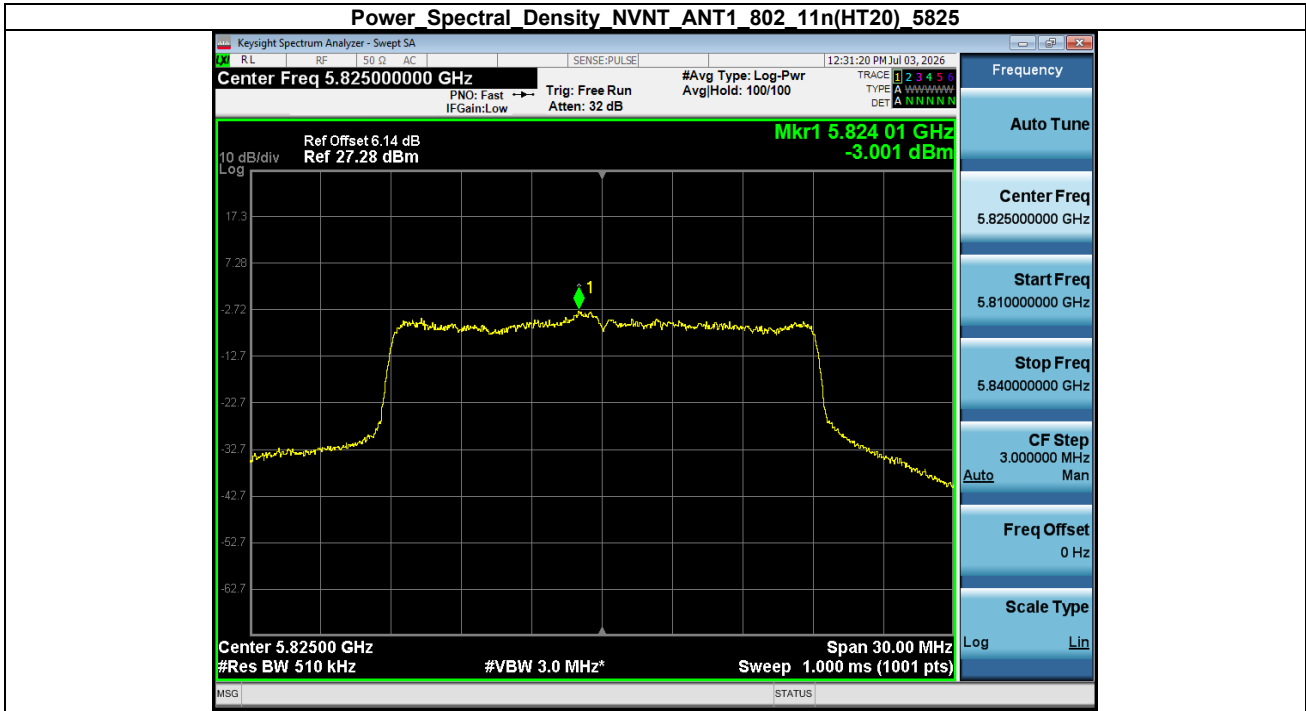
Power_Spectral_Density_NVNT_ANT1_802_11a_5785



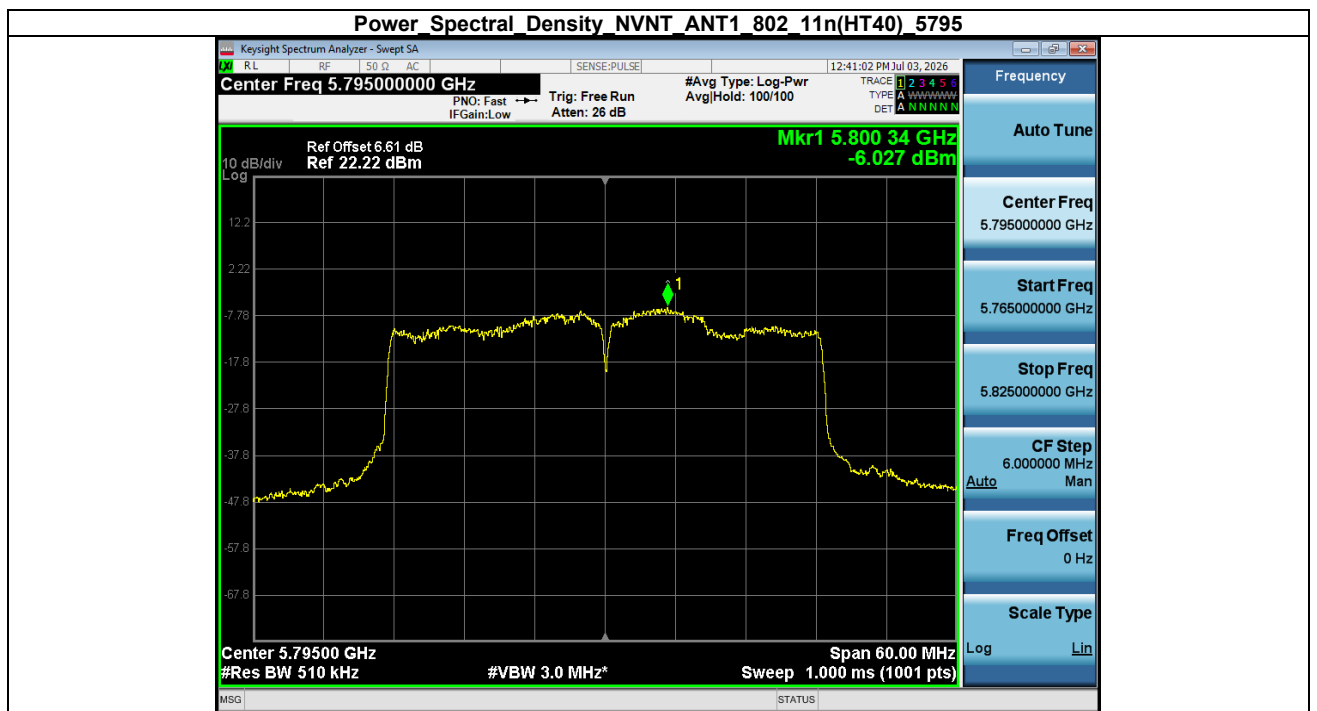
Power_Spectral_Density_NVNT_ANT1_802_11a_5825



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5785



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5755



Appendix A.5: Test Results of Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-10000	-1.931	20	PASS
		5200	NV	NT	-10900	-2.096	20	PASS
		5240	NV	NT	-11200	-2.137	20	PASS
		5745	NV	NT	-13000	-2.263	20	PASS
		5785	NV	NT	-12400	-2.143	20	PASS
		5825	NV	NT	-13000	-2.232	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	0	-10300	-1.988	20	PASS
			NV	40	-10300	-1.988	20	PASS
		5200	NV	0	-10600	-2.038	20	PASS
			NV	40	-11200	-2.154	20	PASS
		5240	NV	0	-11200	-2.137	20	PASS
			NV	40	-11500	-2.195	20	PASS
		5745	NV	0	-10400	-1.810	20	PASS
			NV	40	-10700	-1.862	20	PASS
		5785	NV	0	-10400	-1.798	20	PASS
			NV	40	-10400	-1.798	20	PASS
		5825	NV	0	-11000	-1.888	20	PASS
			NV	40	-11000	-1.888	20	PASS

Appendix A.6: Test Results of Radiated Spurious Emissions

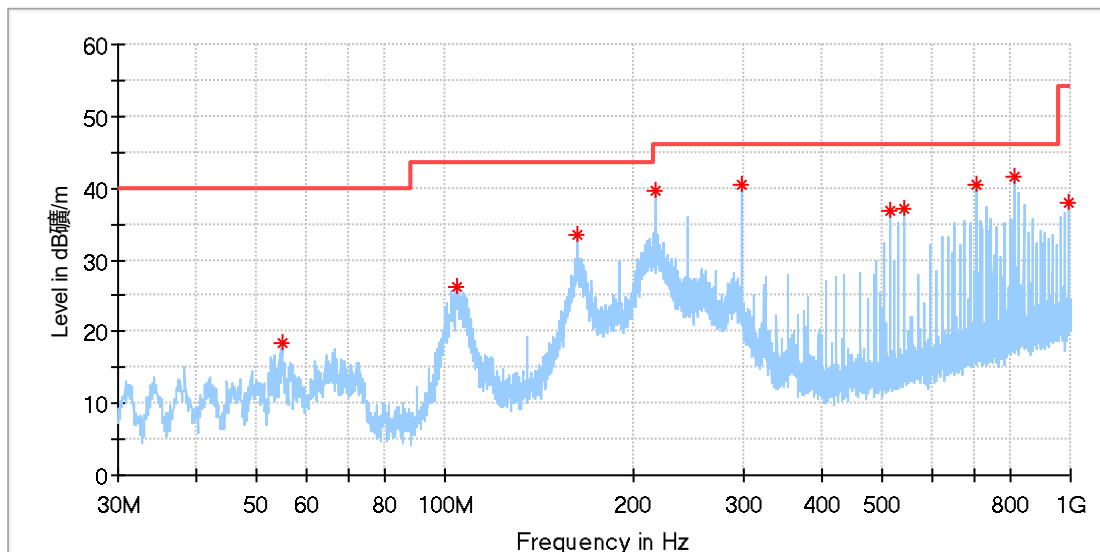
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 40GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

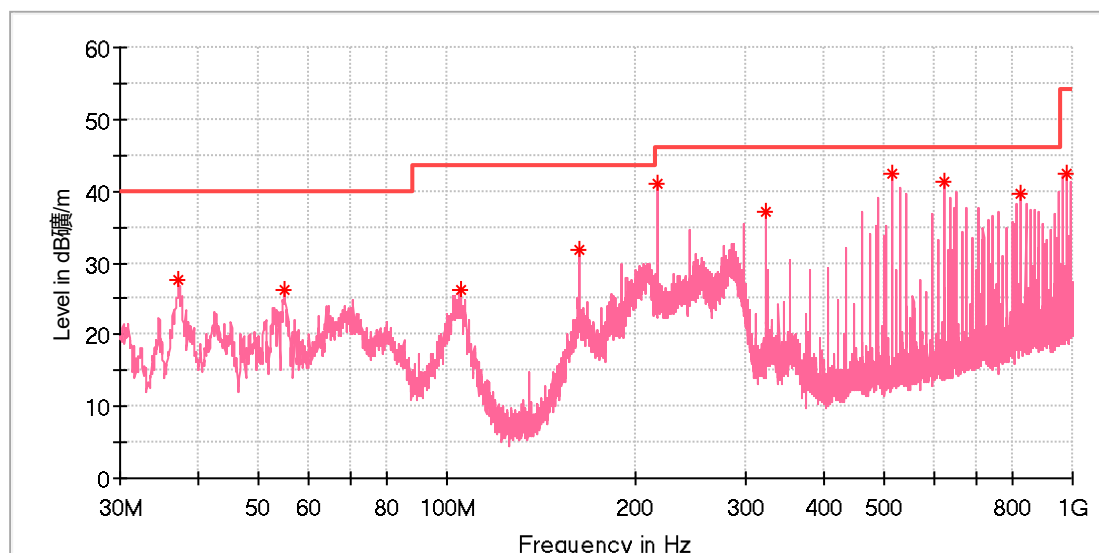
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.788889	18.55	40.00	21.45	100.0	H	16.0	-18.5
104.420556	26.13	43.50	17.37	100.0	H	52.0	-18.9
162.728333	33.51	43.50	9.99	100.0	H	200.0	-21.7
216.994444	39.75	46.00	6.25	100.0	H	127.0	-18.7
298.366667	40.56	46.00	5.44	100.0	H	61.0	-16.3
515.323333	36.80	46.00	9.20	100.0	H	266.0	-11.6
542.429444	37.08	46.00	8.92	100.0	H	274.0	-11.0
705.173889	40.55	46.00	5.45	100.0	H	266.0	-7.8
813.706111	41.53	46.00	4.47	100.0	H	281.0	-5.9
989.976667	37.82	54.00	16.18	100.0	H	127.0	-3.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch44
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.221111	27.74	40.00	12.26	100.0	V	242.0	-21.1
54.896667	26.10	40.00	13.90	100.0	V	330.0	-18.5
105.067222	26.22	43.50	17.28	100.0	V	235.0	-18.9
162.728333	31.95	43.50	11.55	100.0	V	330.0	-21.7
216.994444	41.04	46.00	4.96	100.0	V	256.0	-18.7
324.017778	37.16	46.00	8.84	100.0	V	146.0	-15.5
515.323333	42.36	46.00	3.64	100.0	V	235.0	-11.6
623.801667	41.34	46.00	4.66	100.0	V	66.0	-9.2
827.232222	39.54	46.00	6.46	100.0	V	102.0	-5.6
976.450556	42.52	54.00	11.48	100.0	V	22.0	-3.9

Final_Result

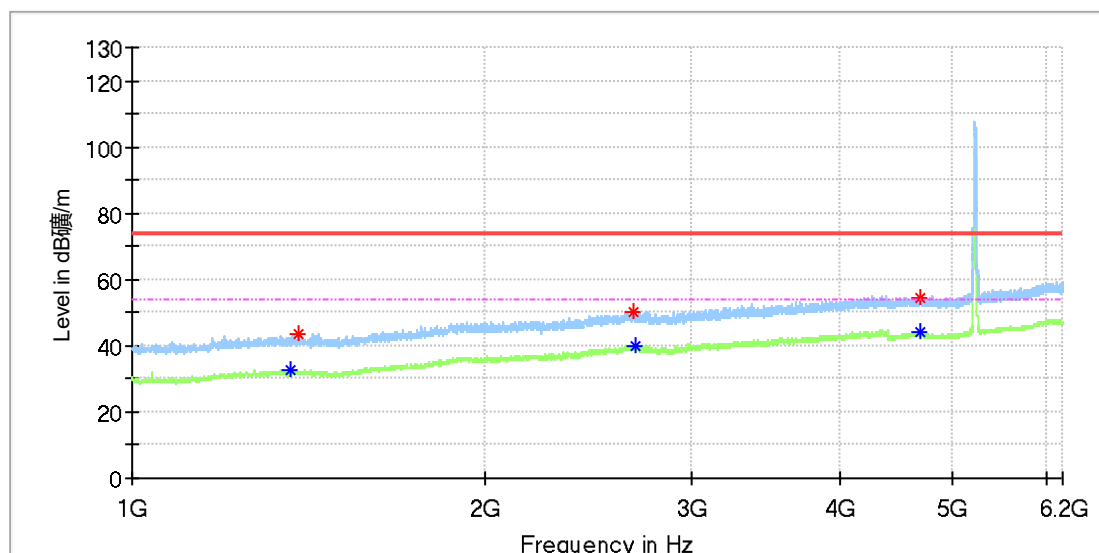
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is 5GHz Wi-Fi Fundamental.

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1363.500000	---	32.63	54.00	21.37	150.0	H	306.0	3.1
1384.000000	43.55	---	74.00	30.45	150.0	H	119.0	3.0
2672.500000	50.36	---	74.00	23.64	150.0	H	223.0	10.2
2687.500000	---	39.95	54.00	14.05	150.0	H	223.0	10.1
4691.000000	54.54	---	74.00	19.47	150.0	H	49.0	13.5
4695.000000	---	44.12	54.00	9.88	150.0	H	226.0	13.5

Final Result

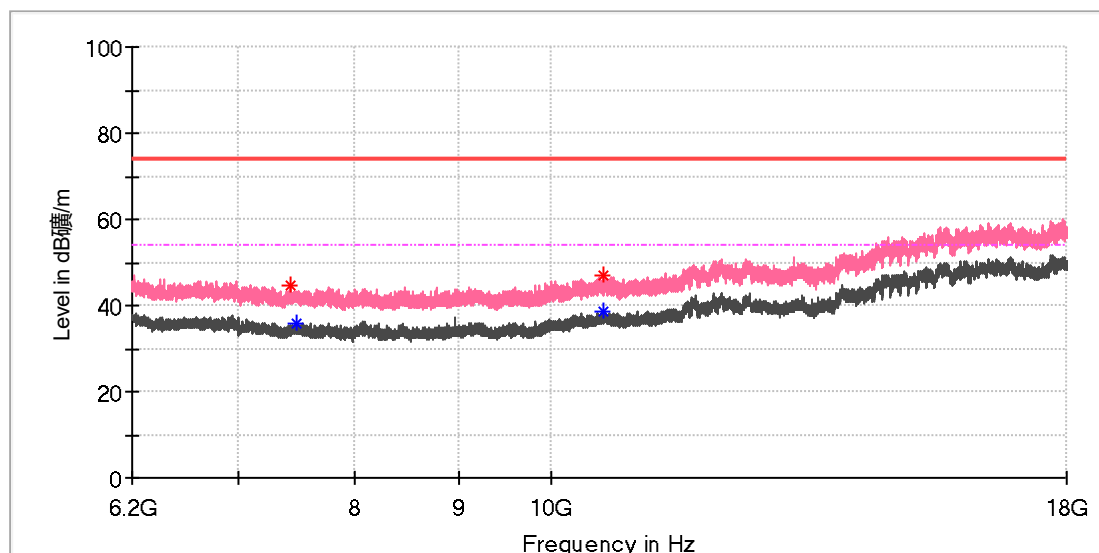
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11a_Ch44
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7429.166667	44.64	---	74.00	29.36	150.0	V	339.0	8.4
7481.775000	---	35.73	54.00	18.27	150.0	V	353.0	8.7
10609.266667	47.16	---	74.00	26.84	150.0	V	255.0	12.1
10623.525000	---	38.68	54.00	15.32	150.0	V	0.0	12.0

Final Result

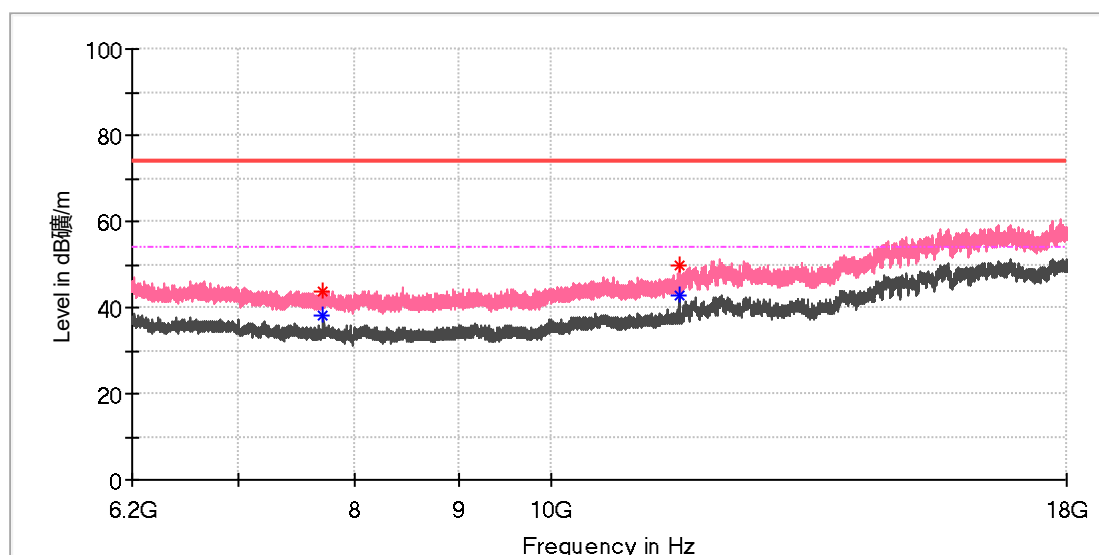
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch157
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7713.350000	43.63	---	74.00	30.37	150.0	V	291.0	8.7
7713.350000	---	38.33	54.00	15.67	150.0	V	291.0	8.7
11566.050000	49.73	---	74.00	24.27	150.0	V	125.0	13.4
11566.541667	---	42.59	54.00	11.41	150.0	V	125.0	13.4

Final_Result

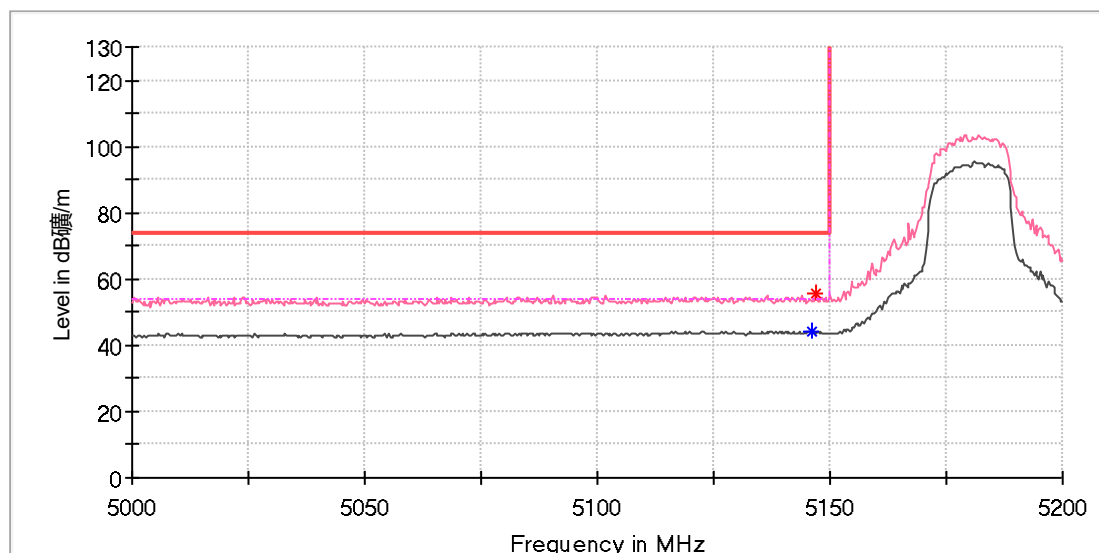
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Co-location Mode (Wi-Fi+NFC)

It verified that there were no evident emissions found for simultaneous mode in Wi-Fi and NFC, thus no records listed.

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

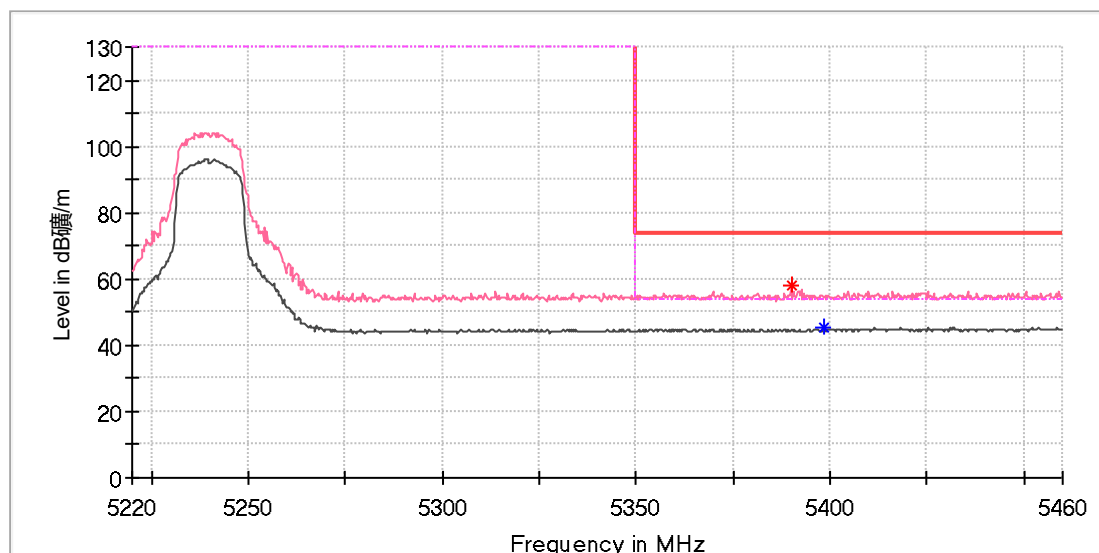
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.022222	---	44.42	54.00	9.58	150.0	V	107.0	13.9
5147.005556	55.51	---	74.00	18.49	150.0	V	305.0	13.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

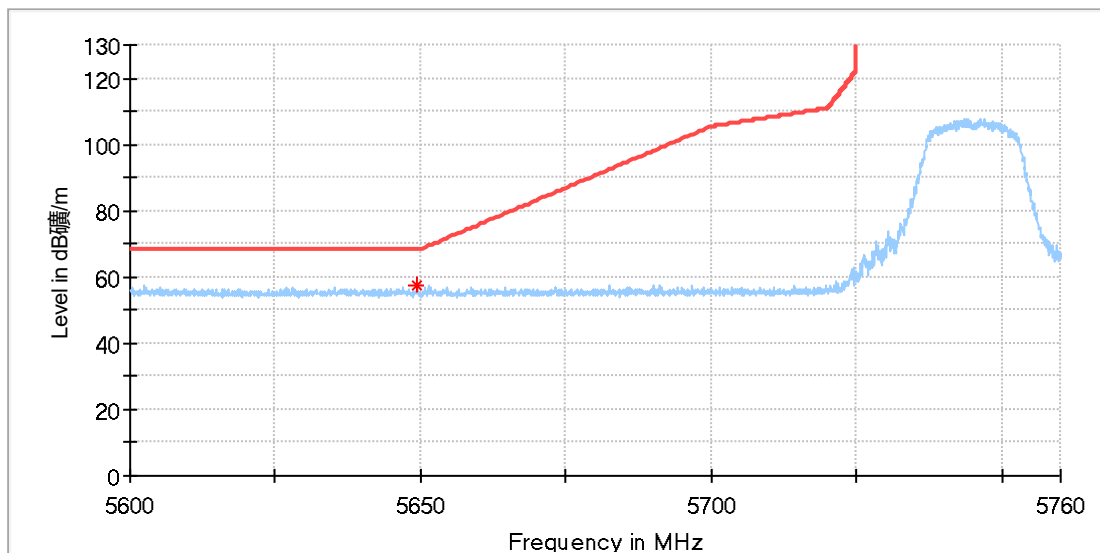
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5389.922222	57.75	---	74.00	16.25	150.0	V	181.0	14.9
5398.461111	---	45.21	54.00	8.79	150.0	V	291.0	14.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch149
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

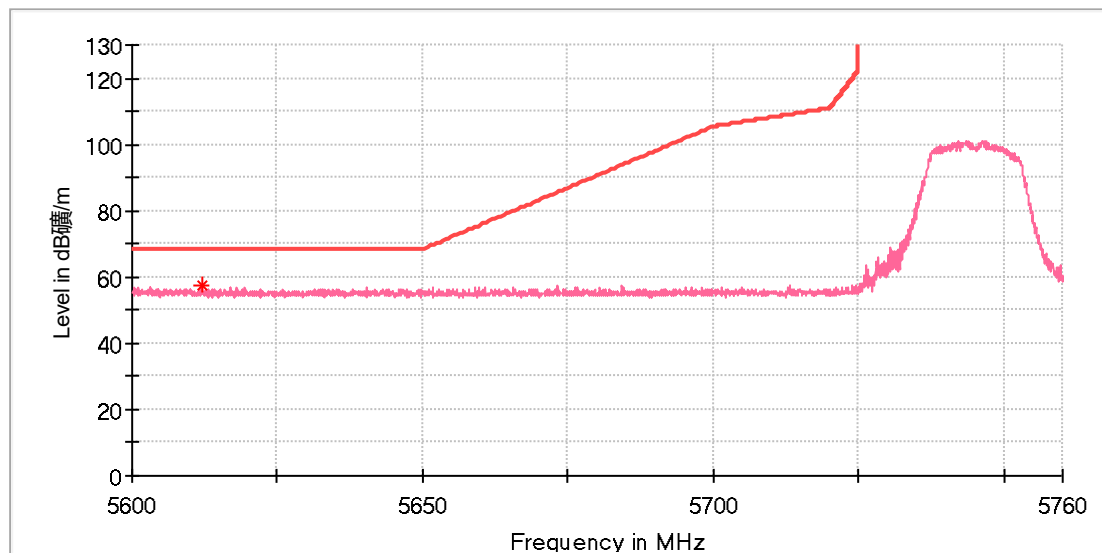
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5649.438889	57.48	68.20	10.72	150.0	H	54.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch149
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

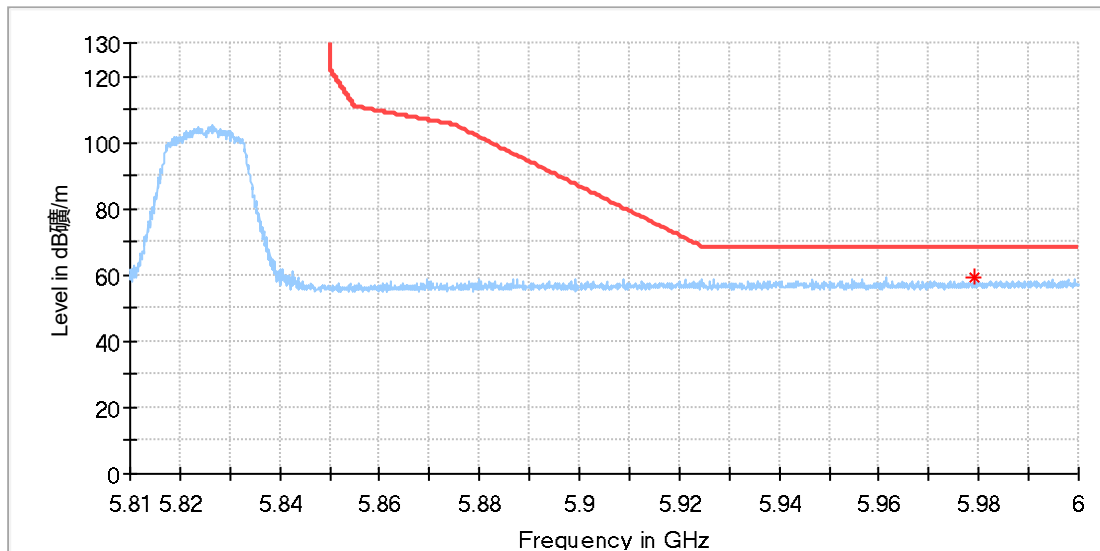
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5611.916667	57.35	68.20	10.85	150.0	V	342.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch165
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

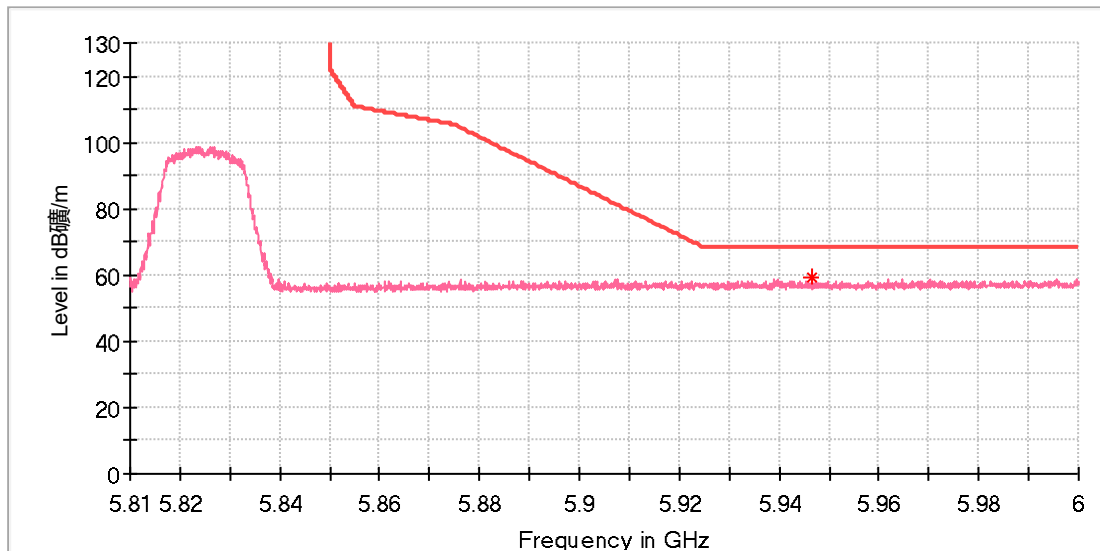
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5979.298611	59.11	68.20	9.09	150.0	H	2.0	16.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11a_Ch165
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5946.527778	58.96	68.20	9.24	150.0	V	21.0	16.3

Final_Result

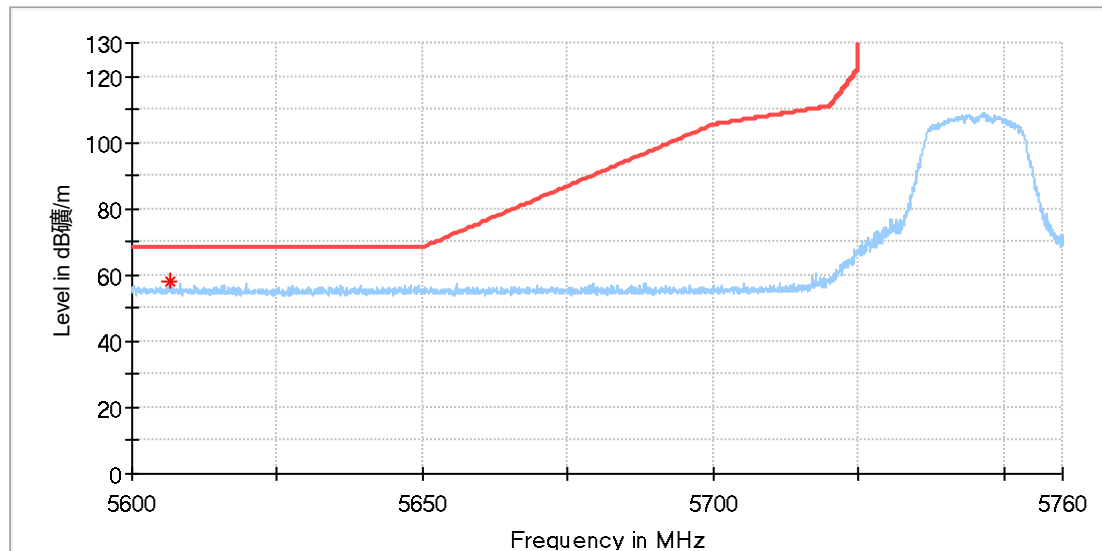
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n20_Ch149
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

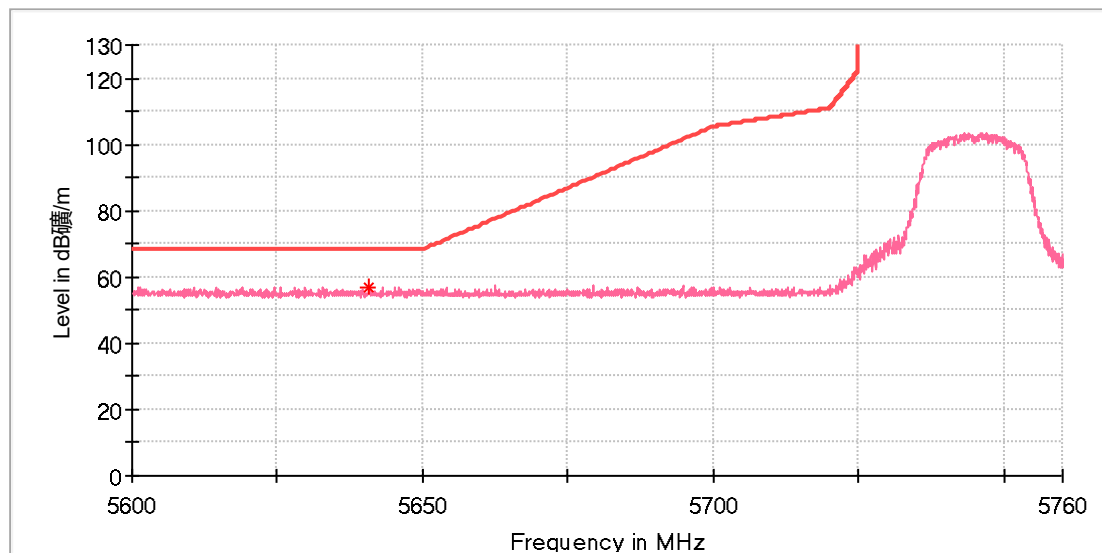
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5606.416667	57.98	68.20	10.22	150.0	H	295.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n20_Ch149
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

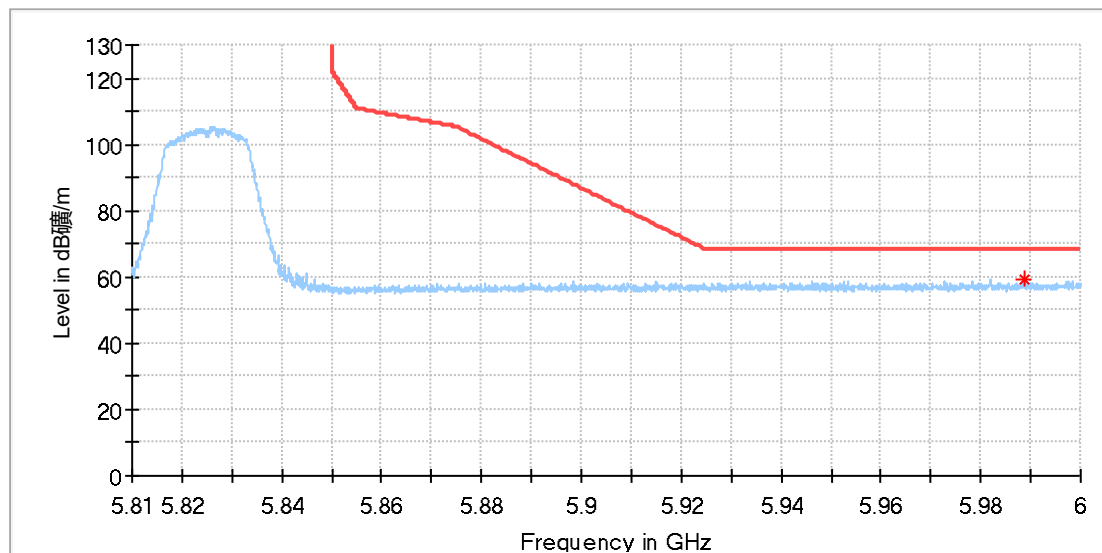
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5640.761111	56.82	68.20	11.38	150.0	V	243.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n20_Ch165
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

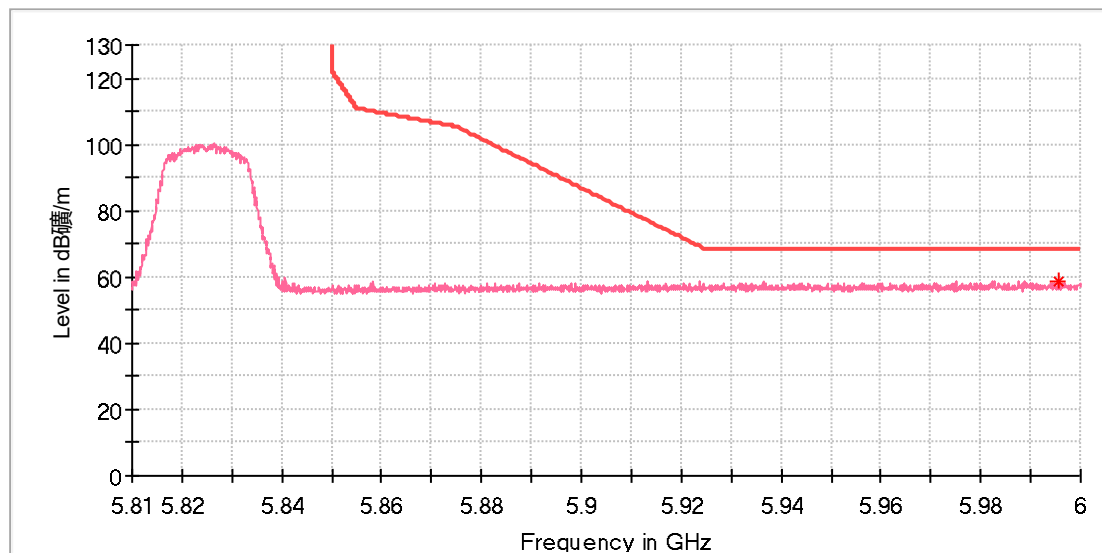
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5988.847222	59.05	68.20	9.15	150.0	H	112.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n20_Ch165
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5995.416667	58.78	68.20	9.42	150.0	V	269.0	16.5

Final Result

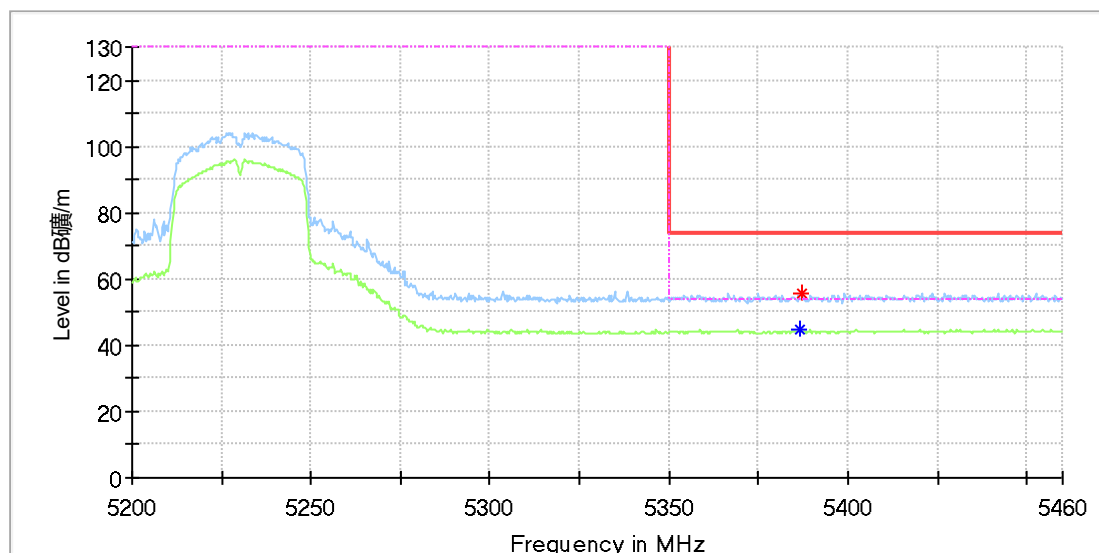
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	WIFI 5G_11n40_Ch46
Order No/Sample No:	27201377/A004195427-002
Test Voltage:	AC 120V, 60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

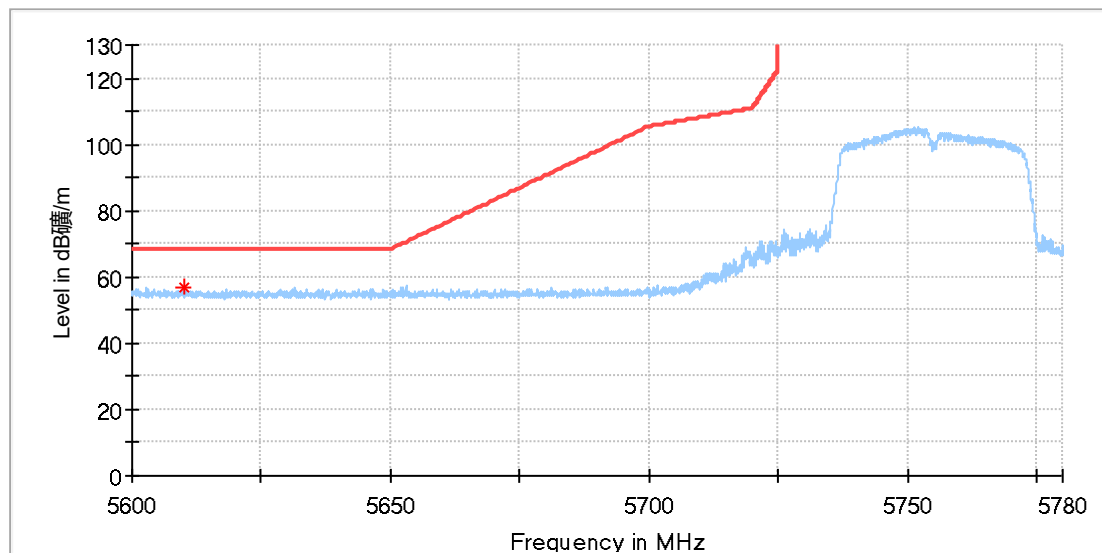
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5386.388889	---	44.52	54.00	9.48	150.0	H	200.0	14.9
5387.272222	55.88	---	74.00	18.12	150.0	H	35.0	14.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n40_Ch151
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

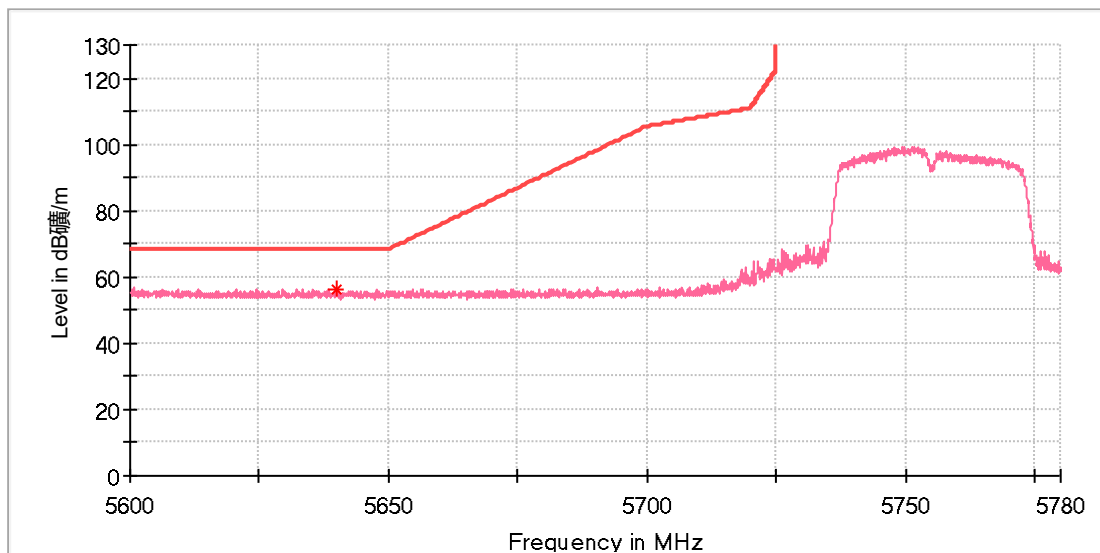
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5610.02222	56.63	68.20	11.57	150.0	H	0.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n40_Ch151
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

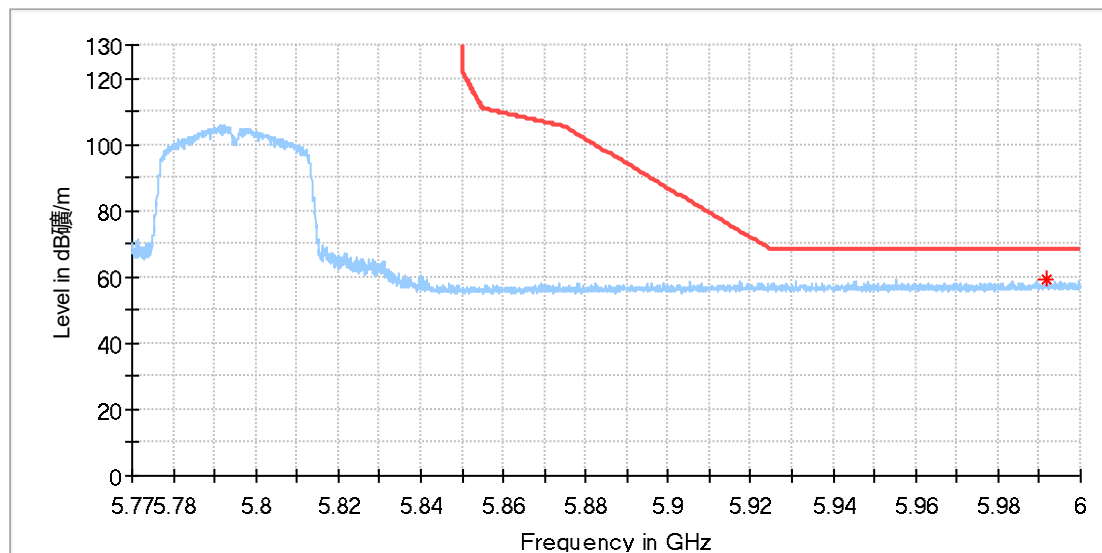
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5640.027778	56.31	68.20	11.89	150.0	V	50.0	15.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n40_Ch159
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

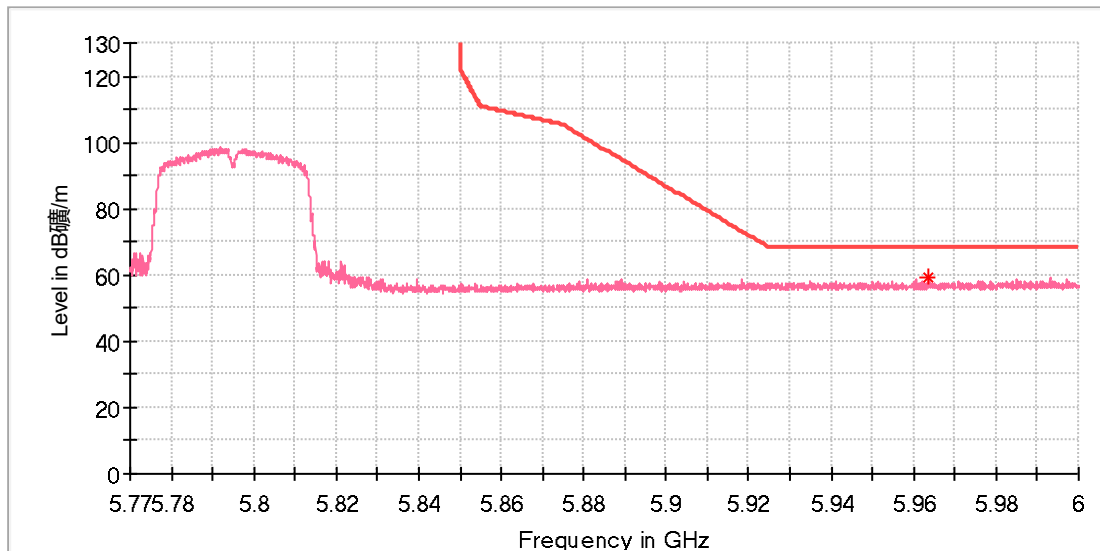
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5991.673611	59.50	68.20	8.70	150.0	H	351.0	16.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: WIFI 5G_11n40_Ch159
Order No/Sample No: 27201377/A004195427-002
Test Voltage: AC 120V, 60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5963.715278	59.18	68.20	9.02	150.0	V	5.0	16.3

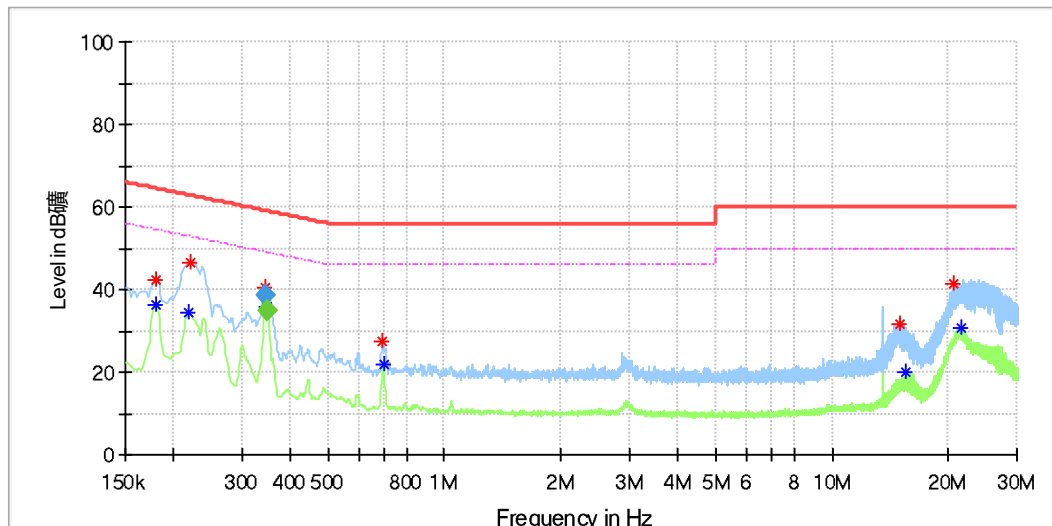
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: 3D Printer
Order Number: 27201377(P02234644)
Model: AccuFab-Aris
Test Mode: Wi-Fi Connecting+NFC
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Aric Wang/ Charlie Zha
Tem./Hum./Pressure: 24.2°C/50.3%/101kPa
Remark: SR2



Critical Freqs

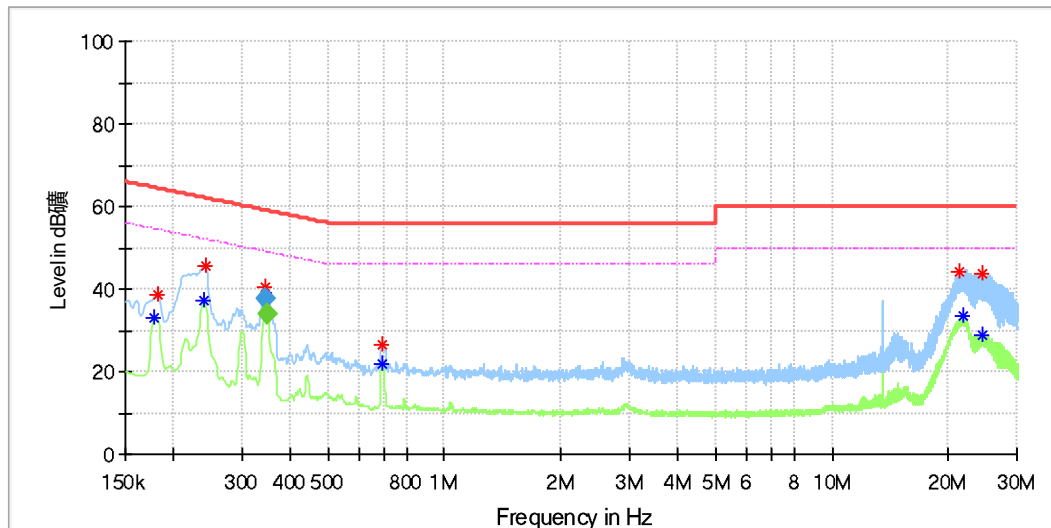
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.18	42.14	---	64.49	22.36	L1	10.24
0.18	---	36.34	54.49	18.15	L1	10.24
0.22	---	34.60	52.83	18.23	L1	10.24
0.22	46.72	---	62.77	16.05	L1	10.24
0.34	40.61	---	59.07	18.46	L1	10.25
0.35	---	35.99	49.03	13.04	L1	10.25
0.69	27.33	---	56.00	28.67	L1	10.28
0.70	---	21.94	46.00	24.06	L1	10.28
14.95	31.70	---	60.00	28.30	L1	10.77
15.48	---	19.84	50.00	30.16	L1	10.80
20.63	41.42	---	60.00	18.58	L1	11.15
21.44	---	30.53	50.00	19.47	L1	11.18

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.34	38.59	---	59.09	20.50	1000.00	9.00	L1	10.25
0.35	---	34.73	48.95	14.22	1000.00	9.00	L1	10.25

EUT Information

EUT Name: 3D Printer
Order Number: 27201377(P02234644)
Model: AccuFab-Aris
Test Mode: Wi-Fi Connecting+NFC
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Aric Wang/ Charlie Zha
Tem./Hum./Pressure: 24.2°C/50.3%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.18	---	32.85	54.57	21.72	N	10.25
0.18	38.75	---	64.42	25.66	N	10.25
0.24	---	37.13	52.11	14.98	N	10.25
0.24	45.63	---	62.06	16.43	N	10.25
0.34	40.40	---	59.11	18.70	N	10.26
0.35	---	38.08	49.03	10.95	N	10.26
0.69	26.44	---	56.00	29.56	N	10.29
0.69	---	21.93	46.00	24.07	N	10.29
21.36	44.19	---	60.00	15.81	N	11.17
21.70	---	33.32	50.00	16.68	N	11.19
24.30	---	28.83	50.00	21.17	N	11.28
24.42	43.57	---	60.00	16.43	N	11.29

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.34	37.87	---	59.13	21.26	1000.00	9.00	N	10.26
0.35	---	34.18	48.95	14.77	1000.00	9.00	N	10.26