

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

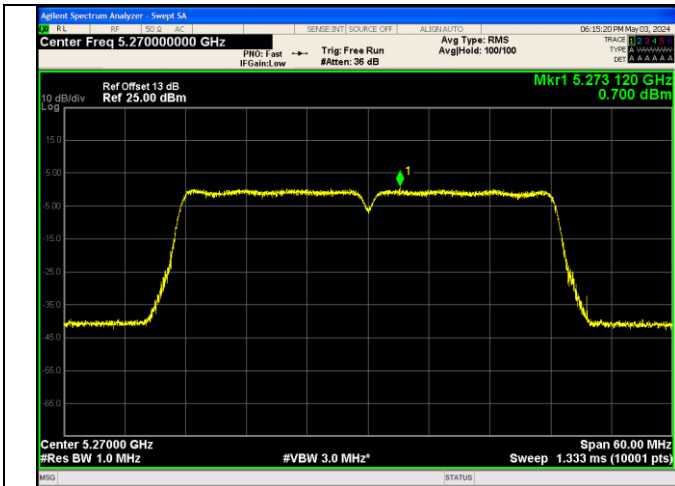
Tel: +86-755-28230888

Fax: +86-755-28230886

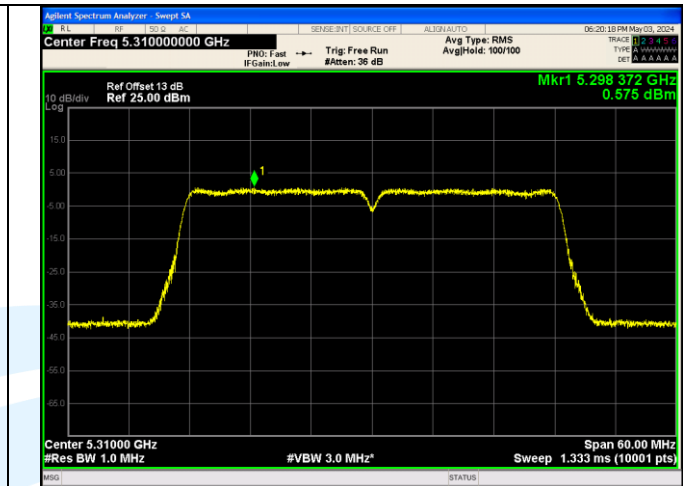
E-mail: info@uttlab.com

<http://www.uttlab.com>

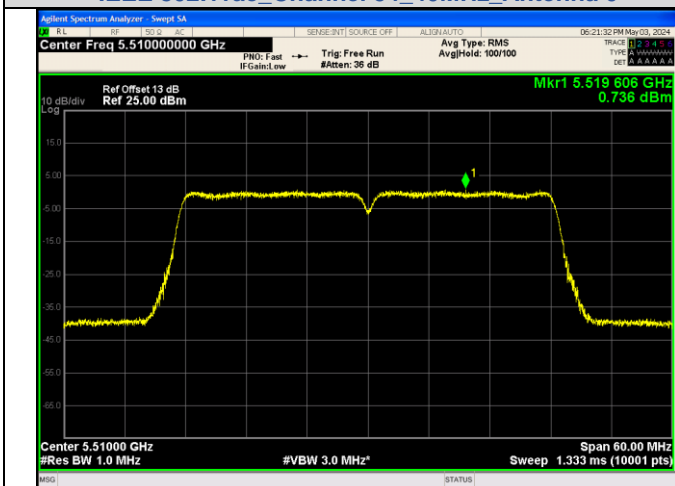
UTTR-RF-RSS247-V1.1



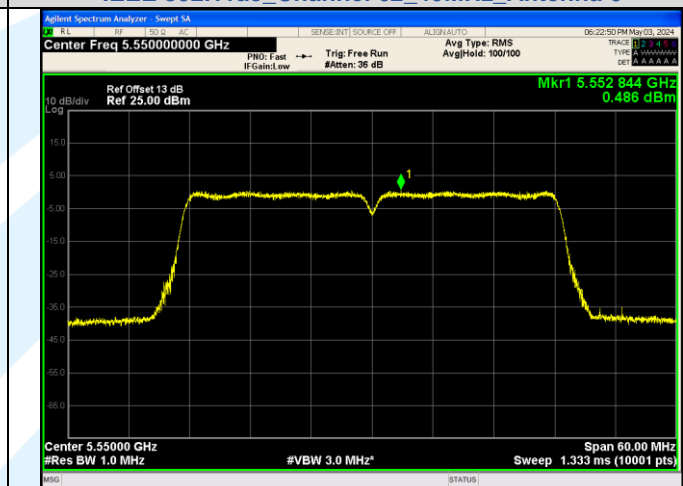
IEEE 802.11ac\_Channel 54\_40MHz\_Antenna 0



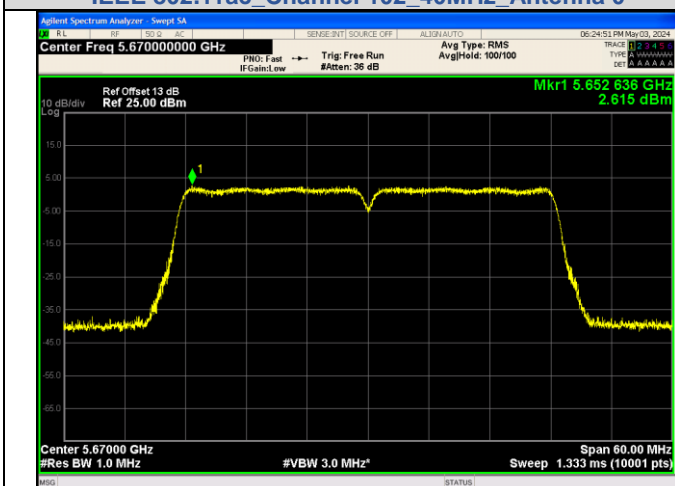
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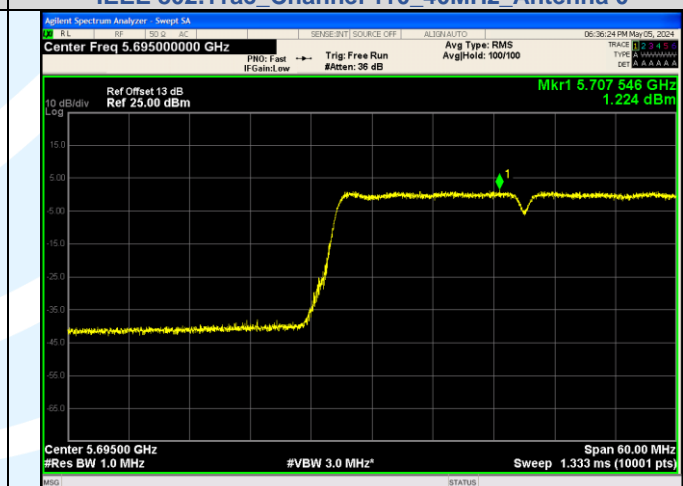
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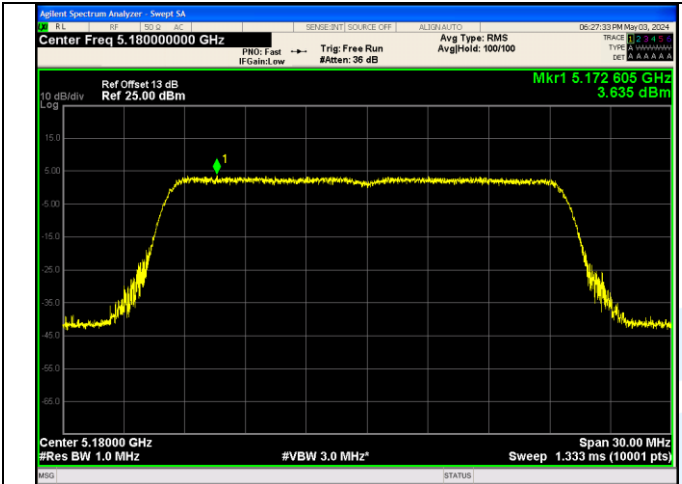
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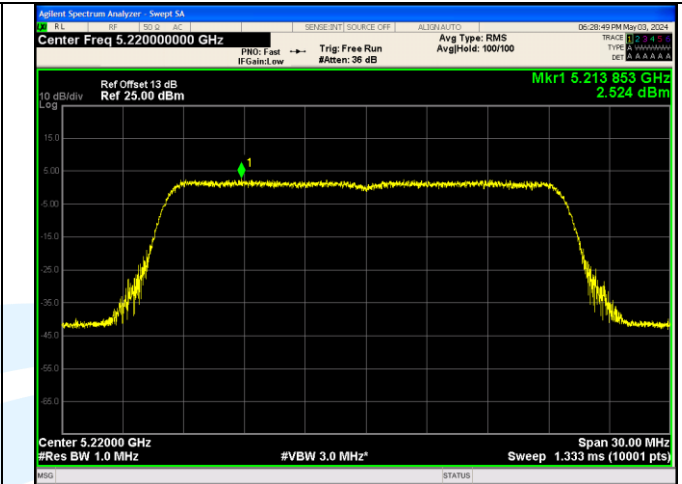
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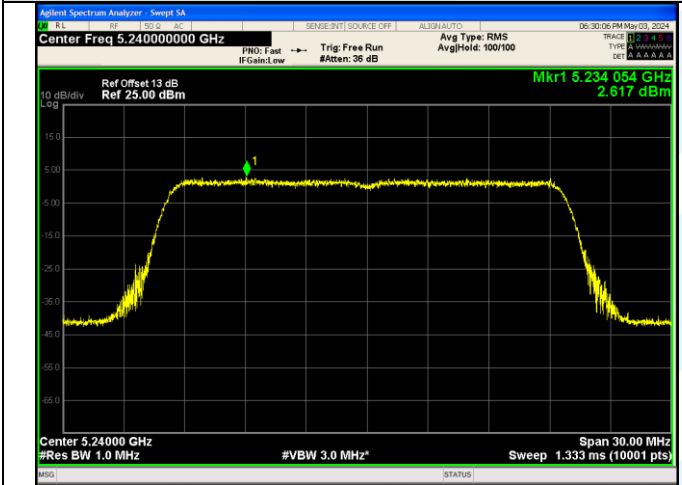
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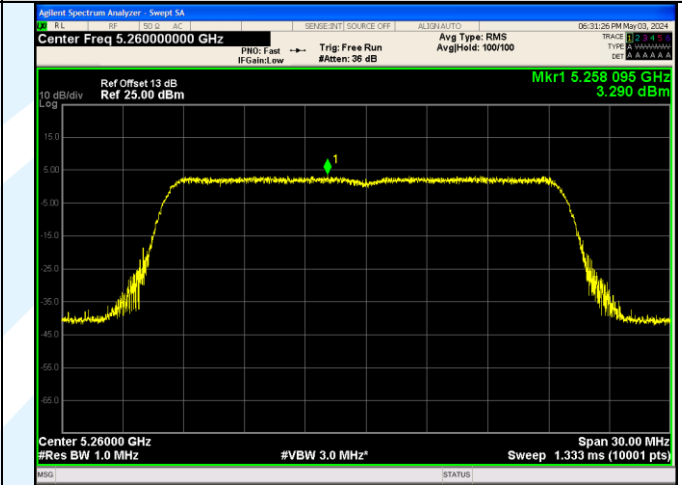
IEEE 802.11ax\_Channel 36\_20MHz\_Antenna 0\_RU&Index SU



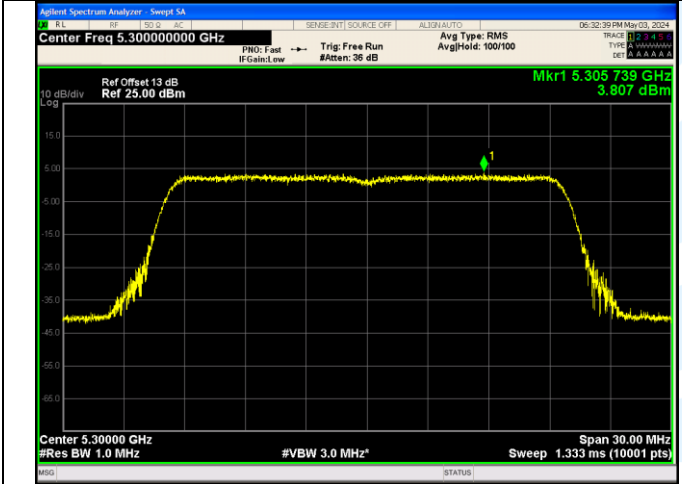
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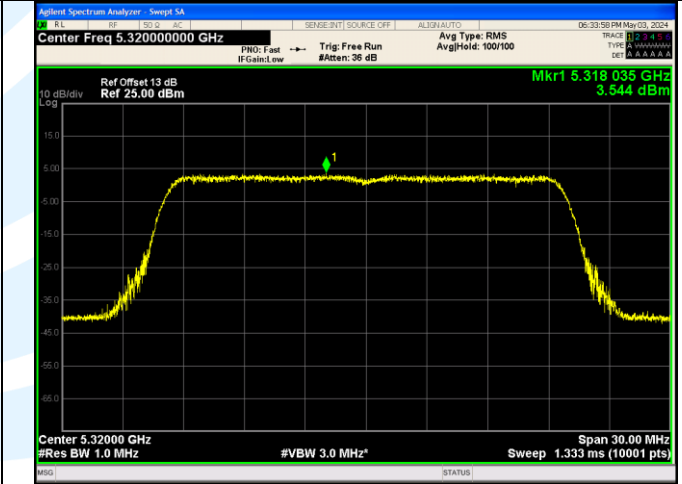
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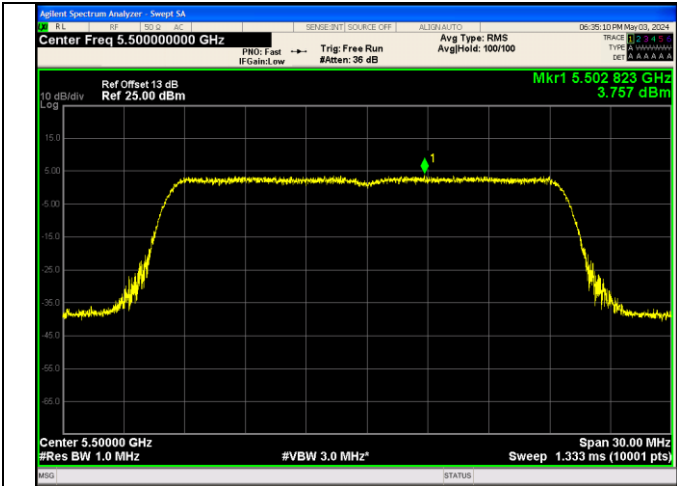
IEEE 802.11ax\_Channel 52\_20MHz\_Antenna 0\_RU&Index SU



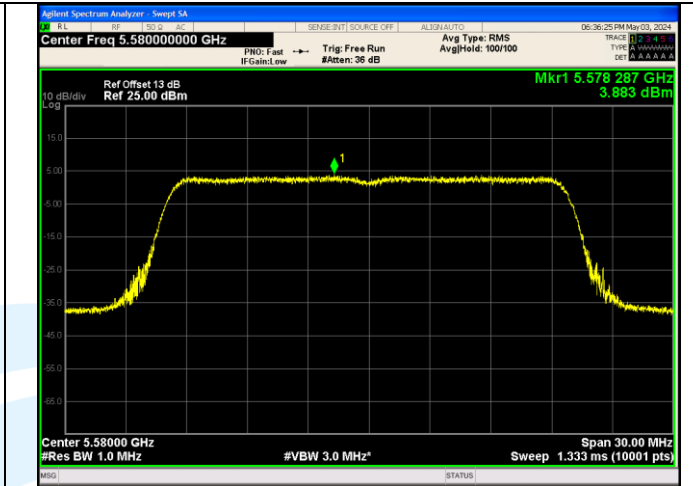
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IEEE 802.11ax\_Channel 64\_20MHz\_Antenna 0\_RU&Index SU



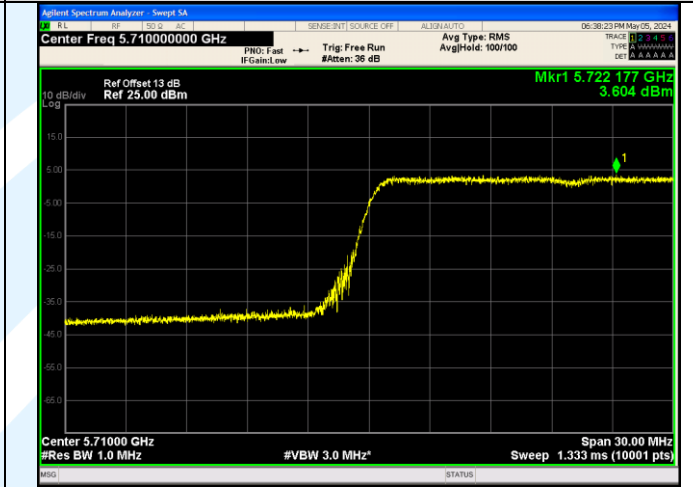
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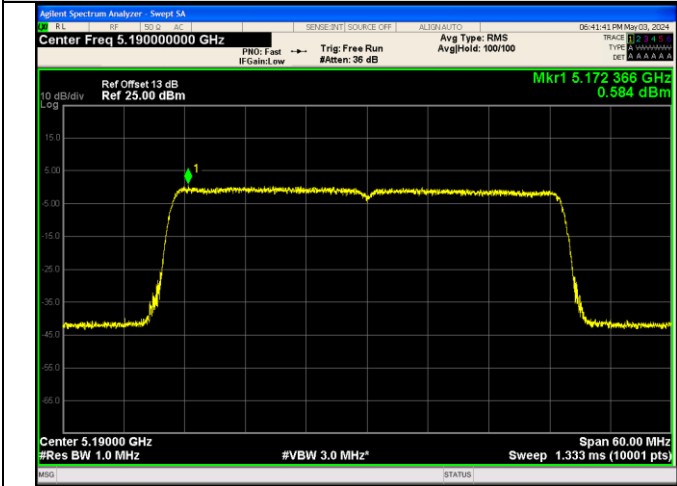
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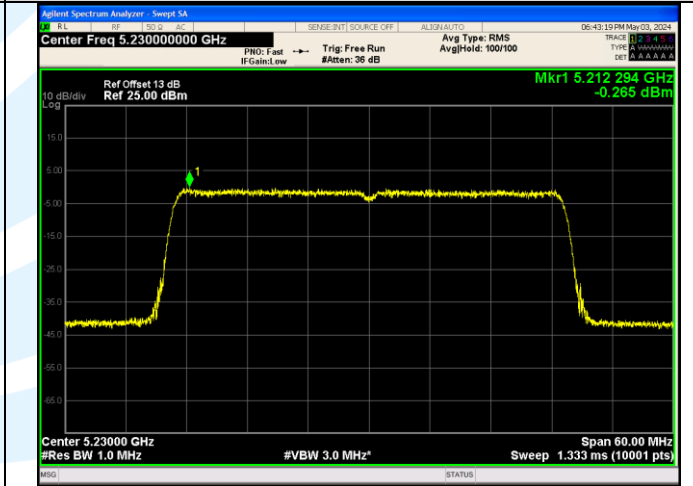
IEEE 802.11ax\_Channel 140\_20MHz\_Antenna 0\_RU&Index SU



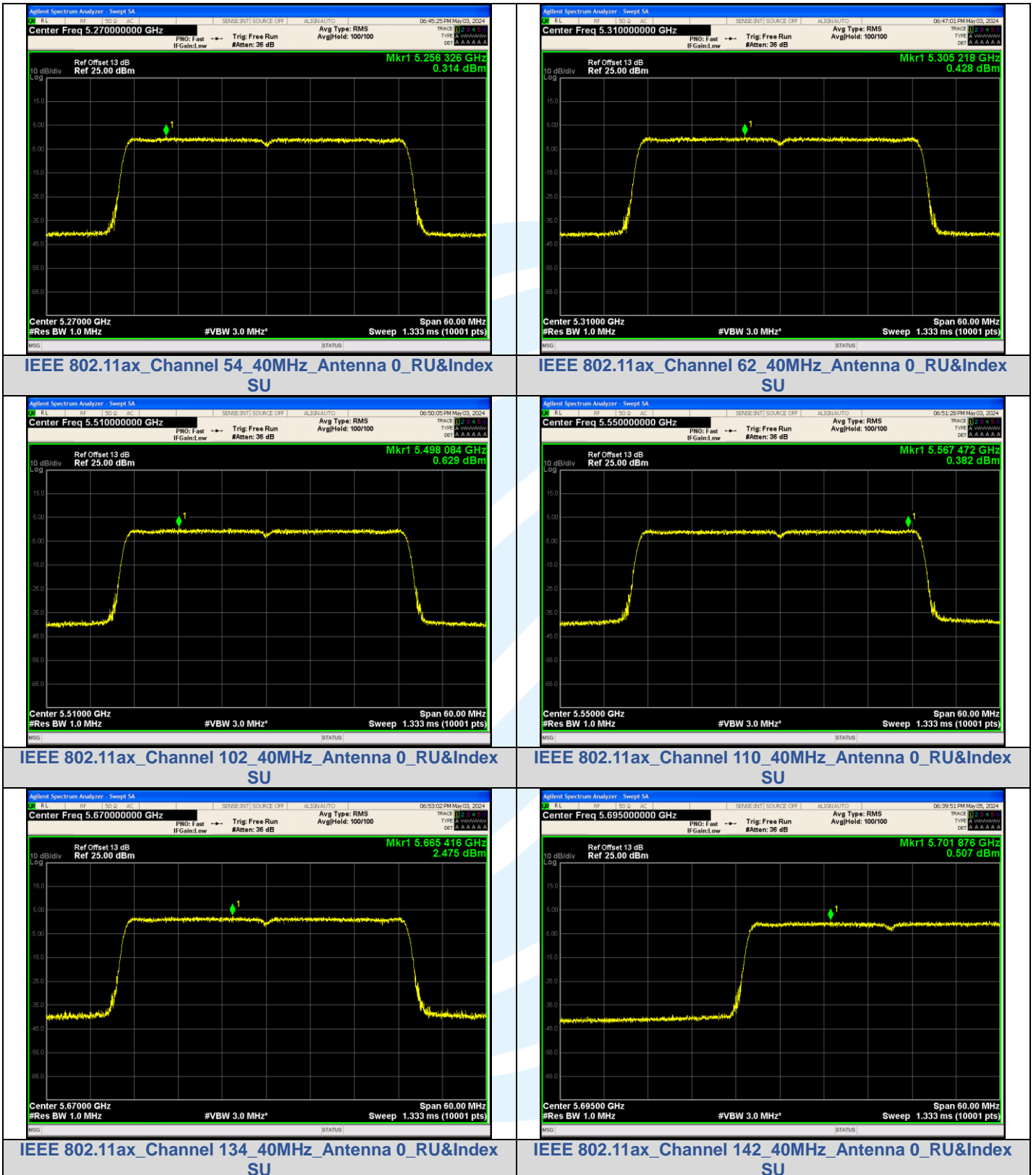
IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 38\_40MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 46\_40MHz\_Antenna 0\_RU&Index SU



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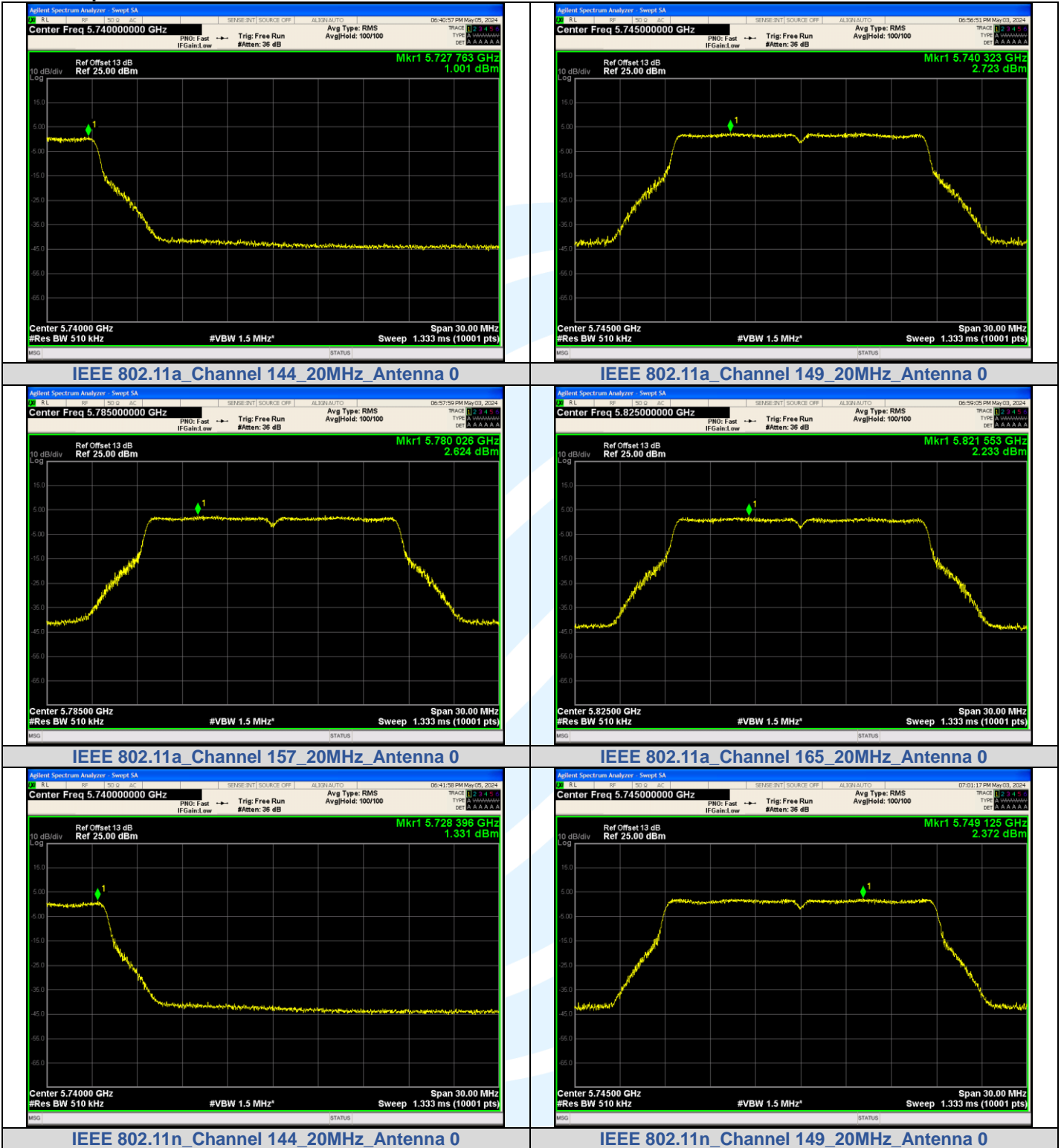
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For U-NII-3 band

Mode	Channel	RU & Index	Ant. 0 Meas PSD (dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/0.5MHz)	Limit (dBm/0.5MHz)	Result
IEEE 802.11a	144	N/A	1.001	1.14	30	PASS
	149		2.723	2.86		PASS
	157		2.624	2.76		PASS
	165		2.233	2.37		PASS
IEEE 802.11n_20	144		1.331	1.47		PASS
	149		2.372	2.51		PASS
	157		2.416	2.56		PASS
	165		1.92	2.06		PASS
IEEE 802.11n_40	142		-2.328	-2.02		PASS
	151		-0.273	0.04		PASS
	159		-0.966	-0.66		PASS
IEEE 802.11ac_20	144		1.319	1.46		PASS
	149		2.619	2.76		PASS
	157		2.517	2.66		PASS
	165		2.013	2.15		PASS
IEEE 802.11ac_40	142		-1.725	-1.53		PASS
	151	-0.436	-0.24	PASS		
	159	-0.561	-0.36	PASS		
IEEE 802.11ax_20	144	SU	1.21	1.41	PASS	
	149		2.309	2.51	PASS	
	157		2.155	2.36	PASS	
	165		1.602	1.80	PASS	
IEEE 802.11ax_40	142		-1.574	-1.35	PASS	
	151		-0.459	-0.24	PASS	
	159		-0.665	-0.45	PASS	

## Test Graphs



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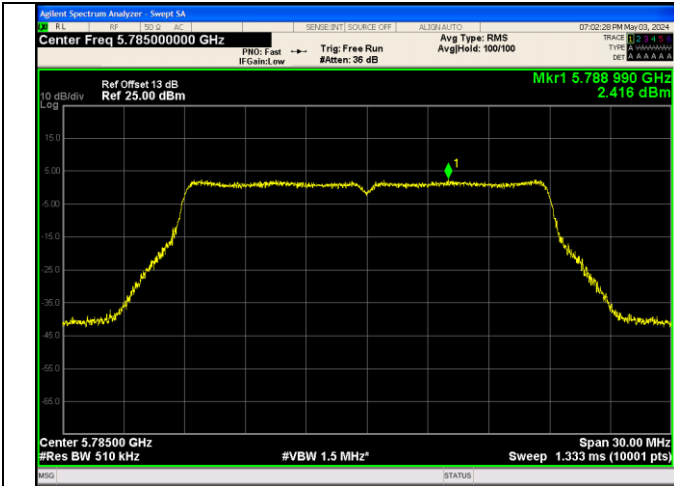
Tel: +86-755-28230888

Fax: +86-755-28230886

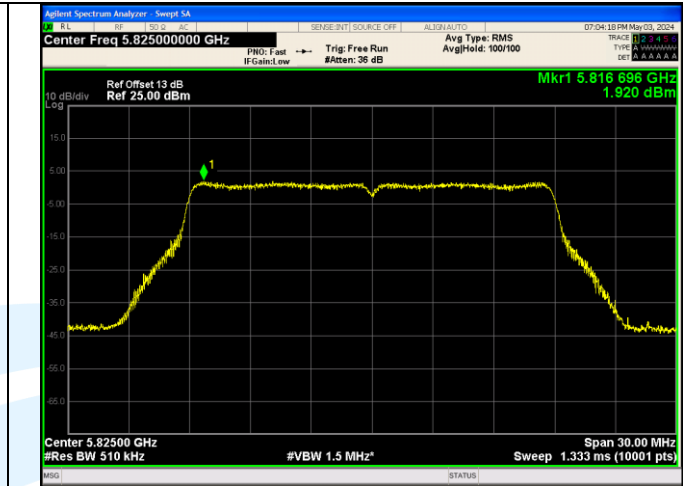
E-mail: info@uttlab.com

<http://www.uttlab.com>

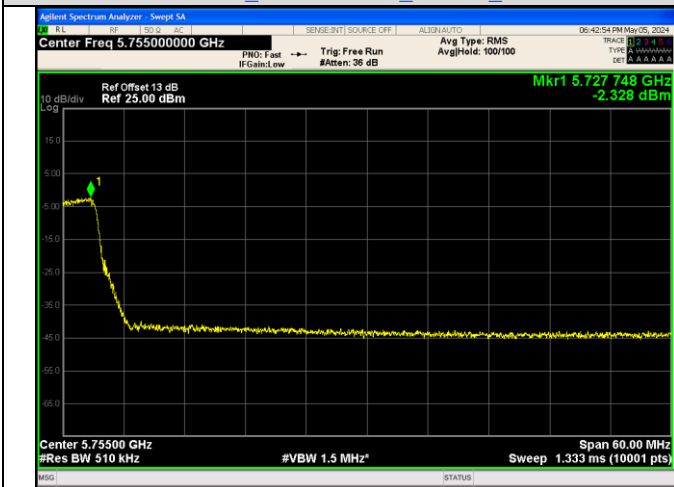
UTTR-RF-RSS247-V1.1



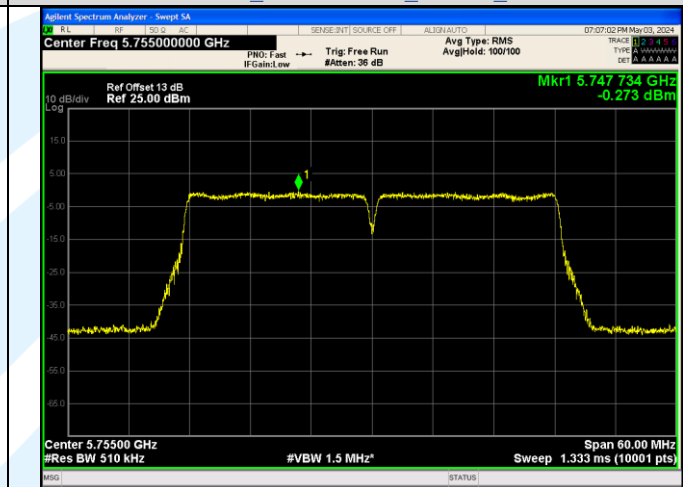
IEEE 802.11n\_Channel 157\_20MHz\_Antenna 0



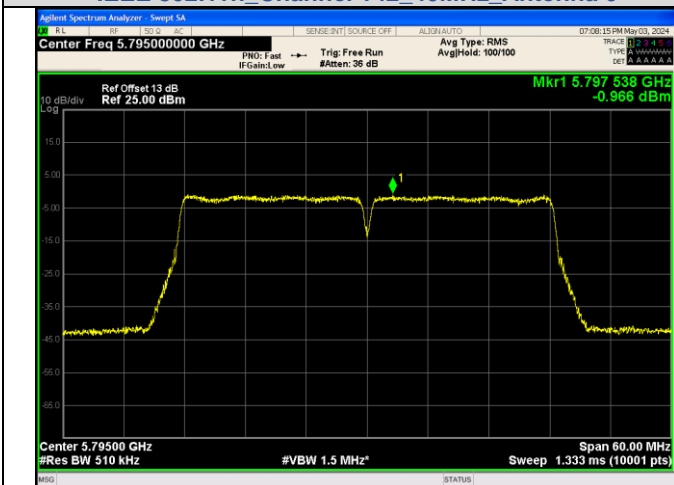
IEEE 802.11n\_Channel 165\_20MHz\_Antenna 0



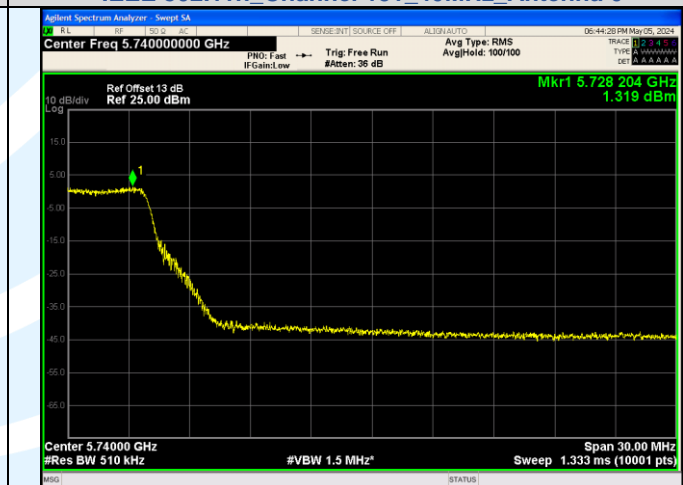
IEEE 802.11n\_Channel 142\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 151\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 159\_40MHz\_Antenna 0



IEEE 802.11ac\_Channel 144\_20MHz\_Antenna 0

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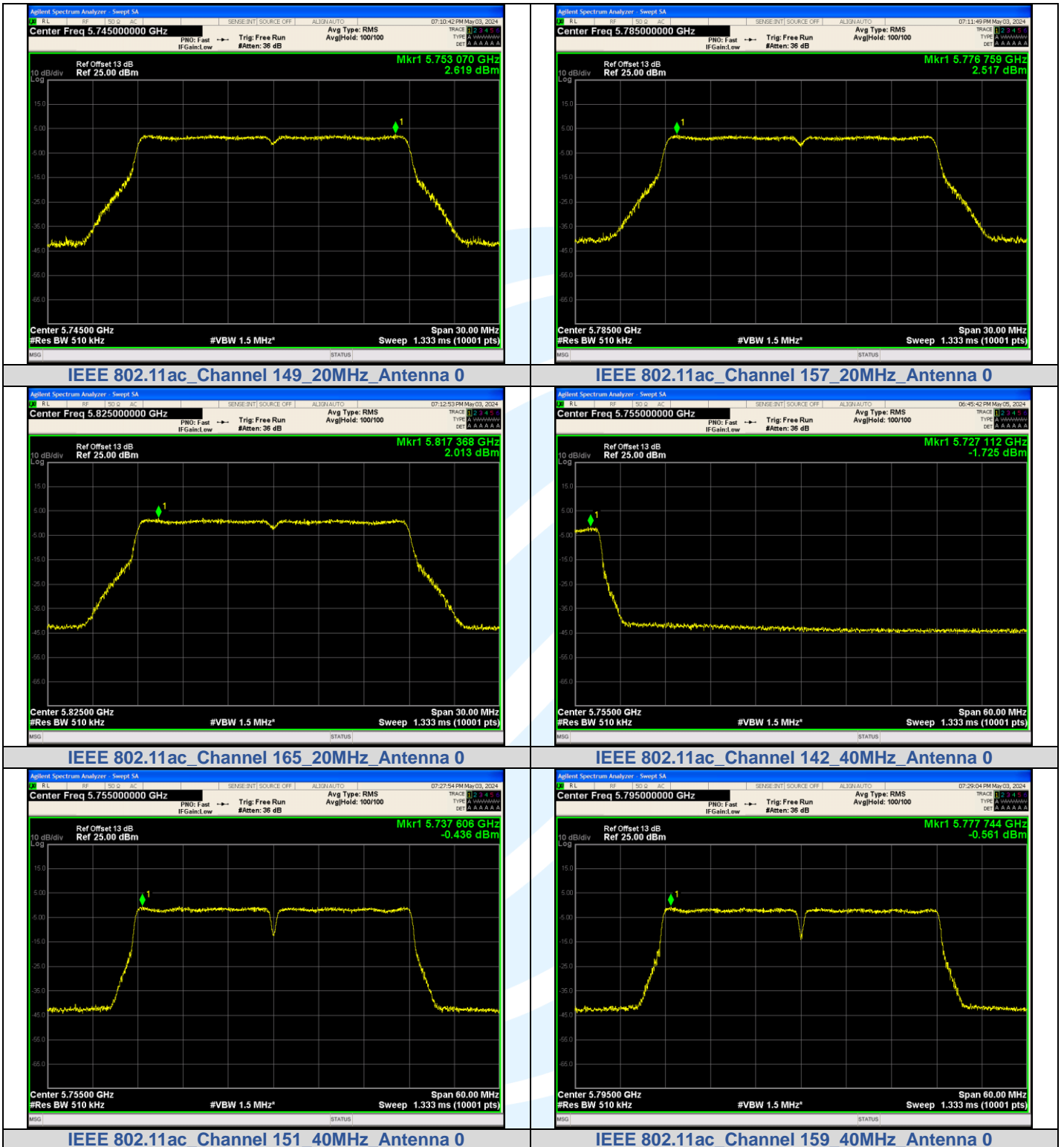
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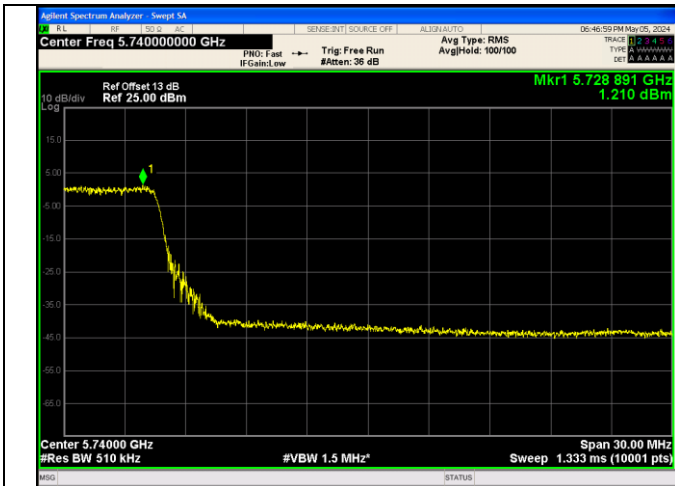
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Fax: +86-755-28230886

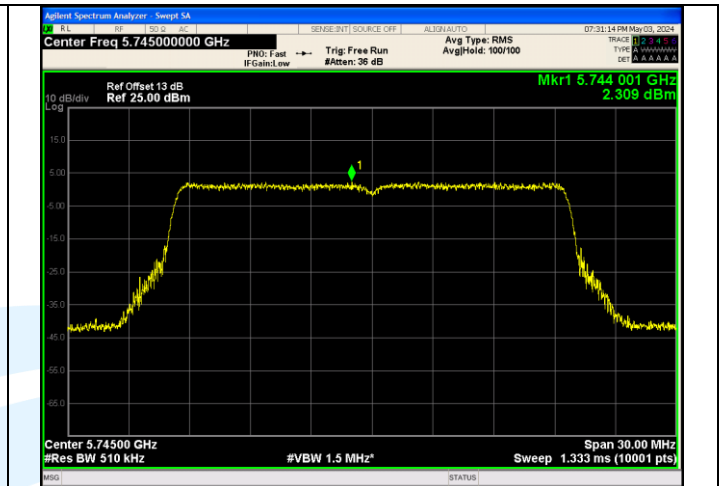
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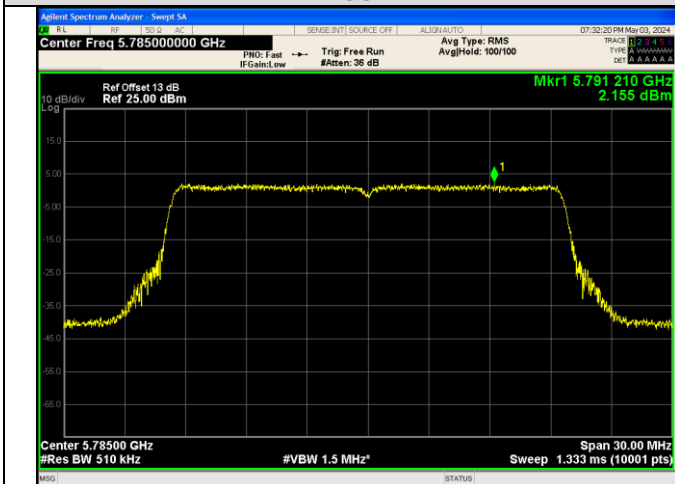
UTTR-RF-RSS247-V1.1



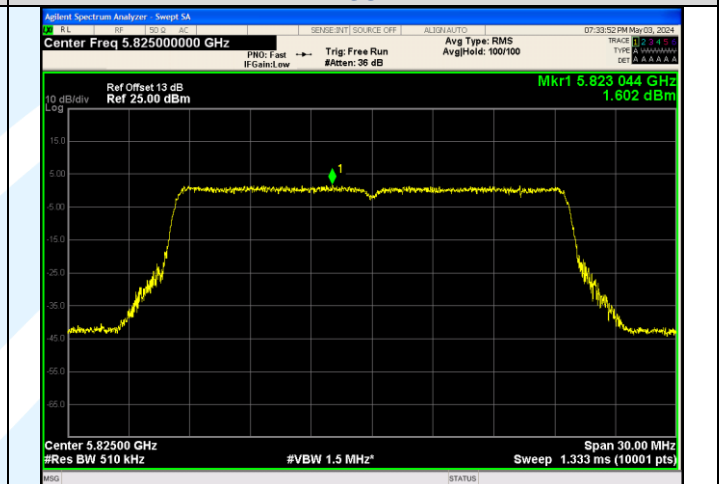
IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU



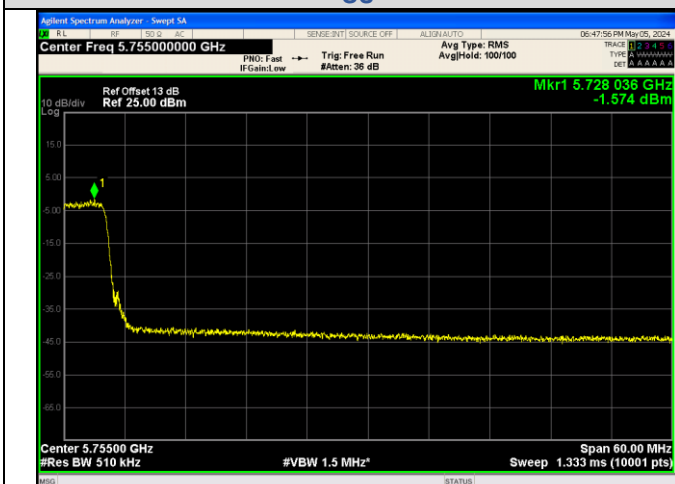
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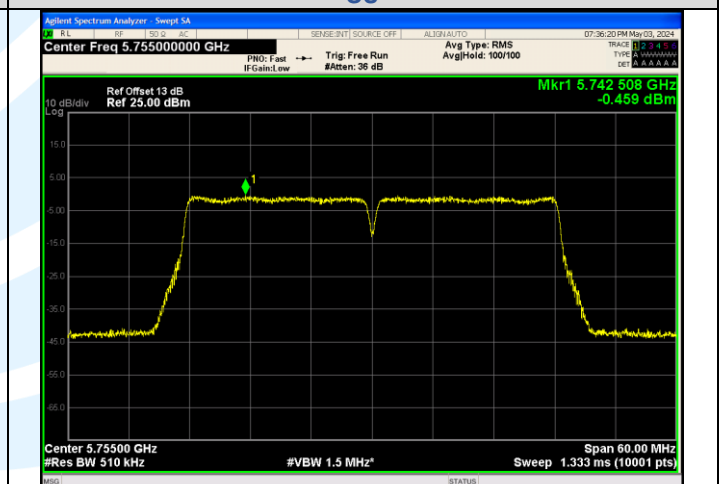
IEEE 802.11ax\_Channel 157\_20MHz\_Antenna 0\_RU&Index SU



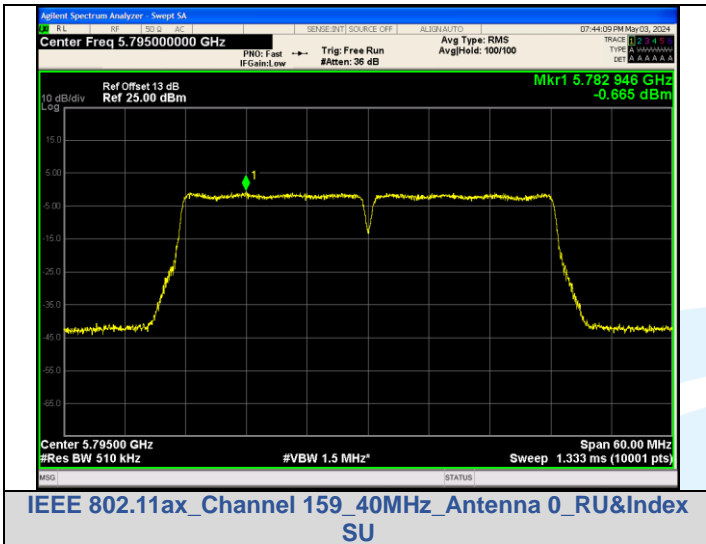
IEEE 802.11ax\_Channel 165\_20MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 142\_40MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 151\_40MHz\_Antenna 0\_RU&Index SU



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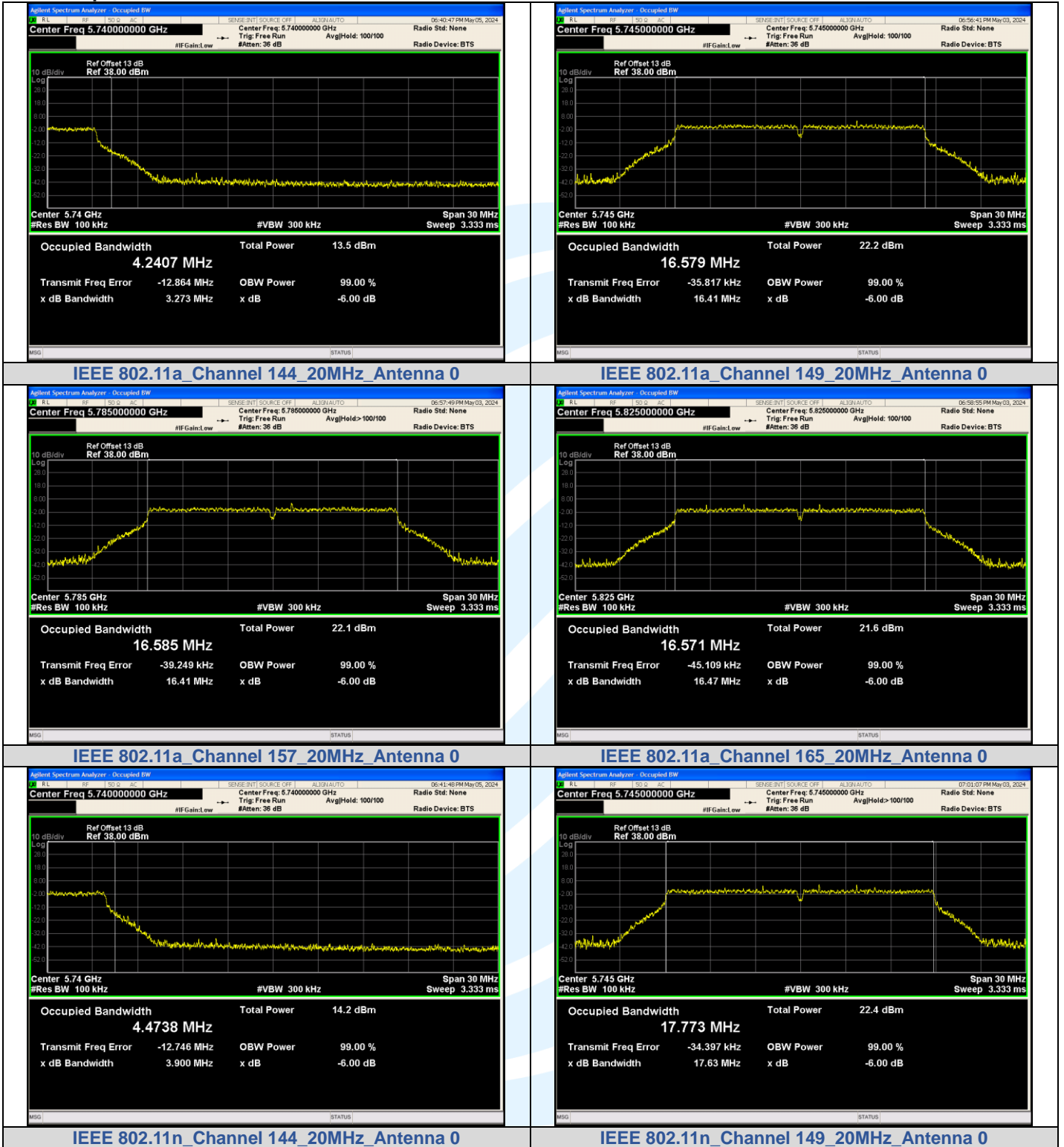
UTTR-RF-RSS247-V1.1

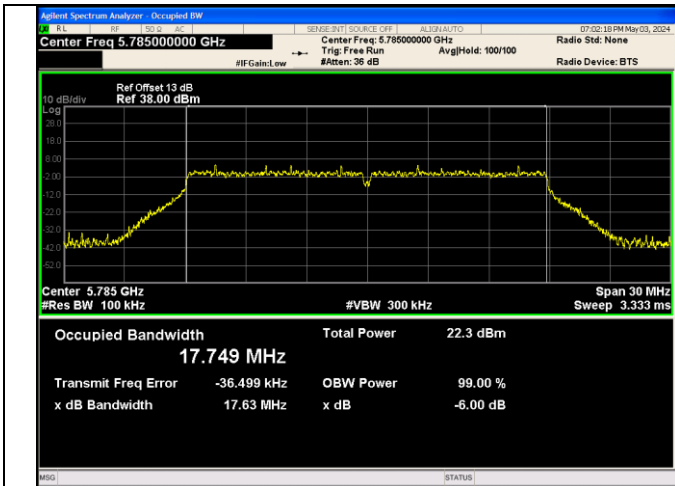
### A.4 6DB BANDWIDTH

For U-NII-3 band

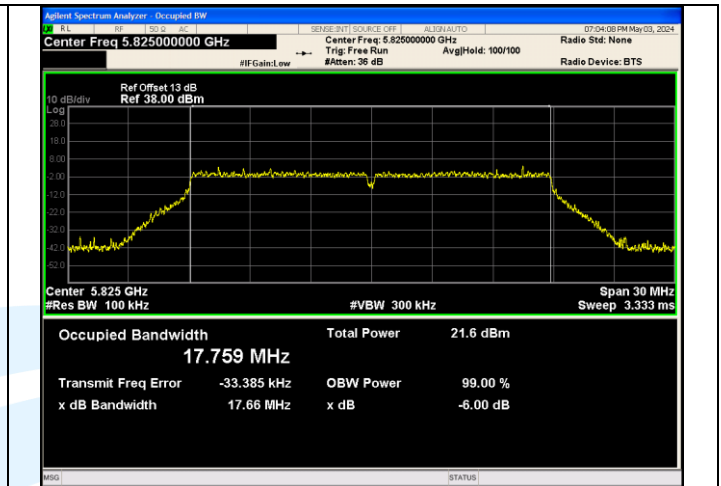
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	144	N/A	0	5740	3.273	0.5	PASS
	149			5745	16.41		PASS
	157			5785	16.41		PASS
	165			5825	16.47		PASS
IEEE 802.11n_20	144			5740	3.900		PASS
	149			5745	17.63		PASS
	157			5785	17.63		PASS
	165			5825	17.66		PASS
IEEE 802.11n_40	142			5755	3.137		PASS
	151			5755	36.34		PASS
	159			5795	36.35		PASS
IEEE 802.11ac_20	144			5740	3.873		PASS
	149			5745	17.73		PASS
	157			5785	17.65		PASS
	165			5825	17.80		PASS
IEEE 802.11ac_40	142			5755	3.226		PASS
	151	5755	36.35	PASS			
	159	5795	36.35	PASS			
	IEEE 802.11ax_20	144	5740	4.511	PASS		
149		5745	19.13	PASS			
157		5785	19.14	PASS			
165		5825	19.01	PASS			
IEEE 802.11ax_40		142	5755	4.077	PASS		
	151	5755	36.47	PASS			
	159	5795	36.34	PASS			

## Test Graphs

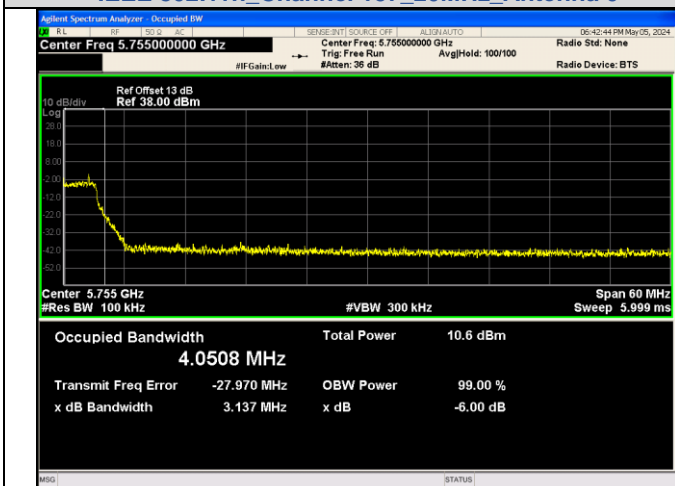




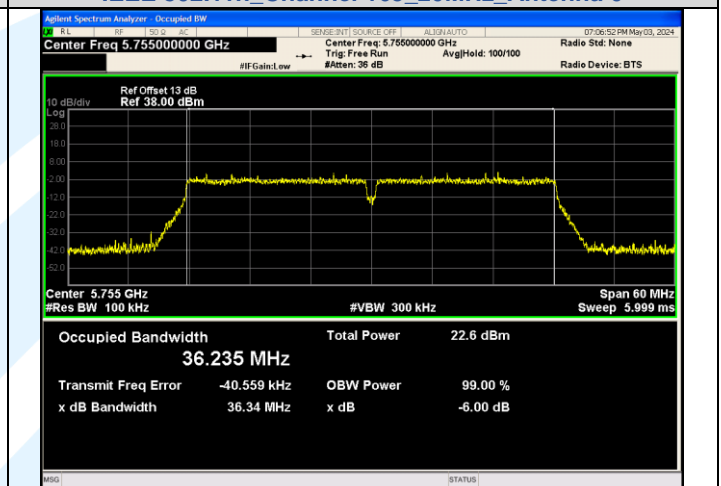
IEEE 802.11n\_Channel 157\_20MHz\_Antenna 0



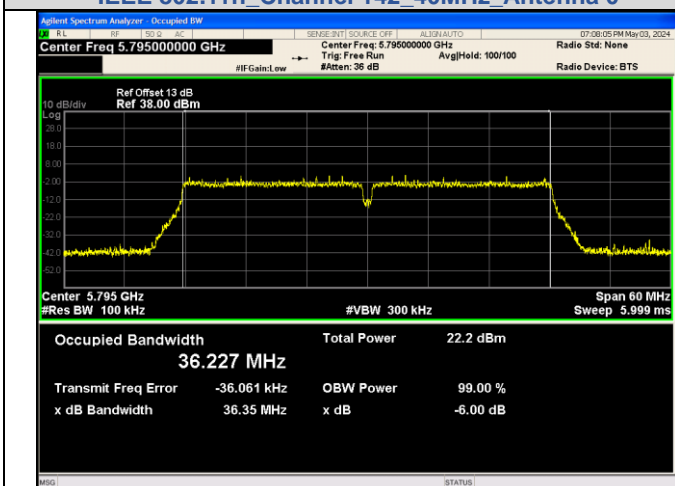
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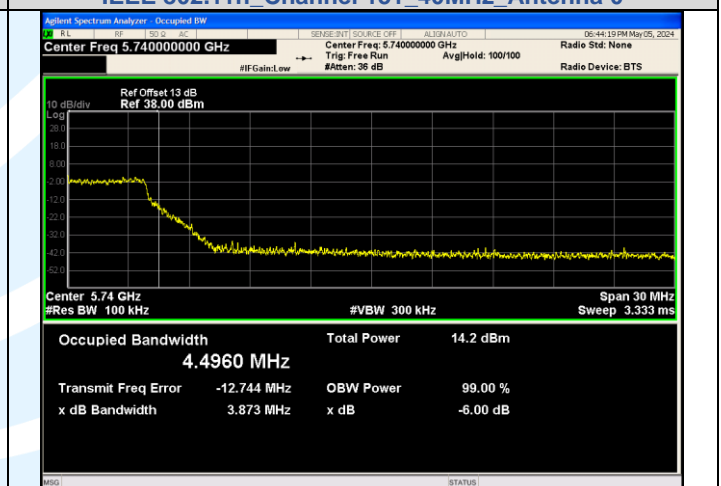
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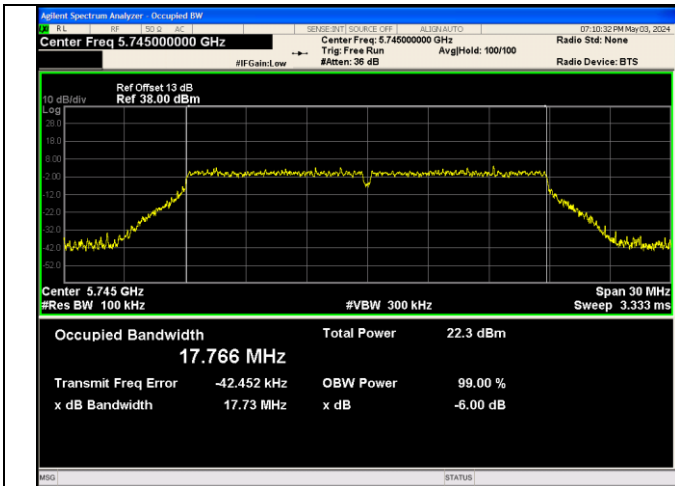
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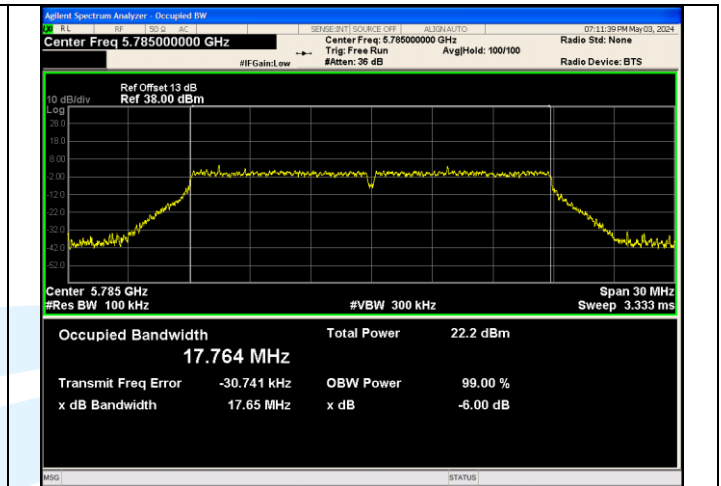
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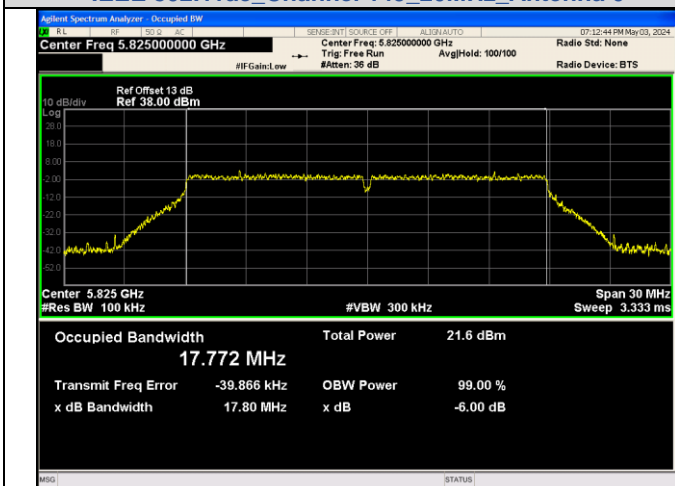
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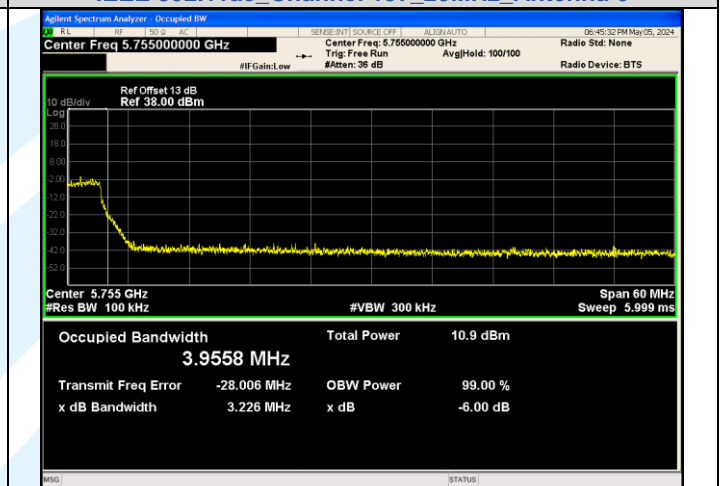
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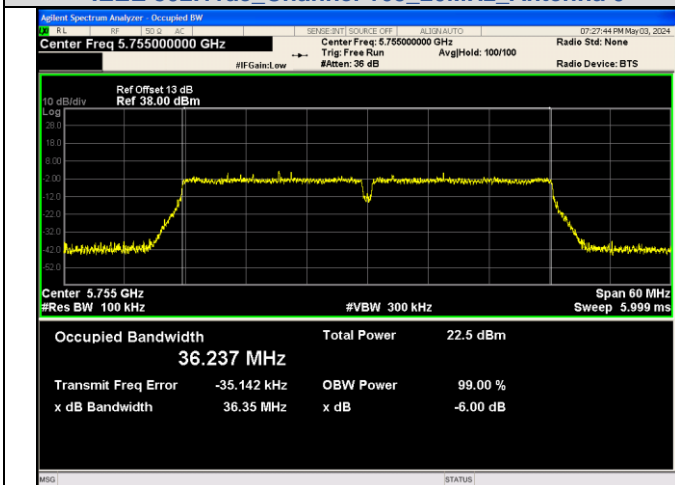
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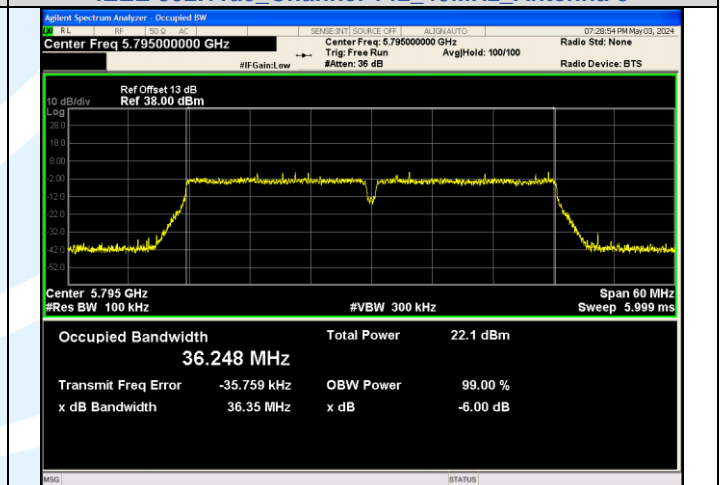
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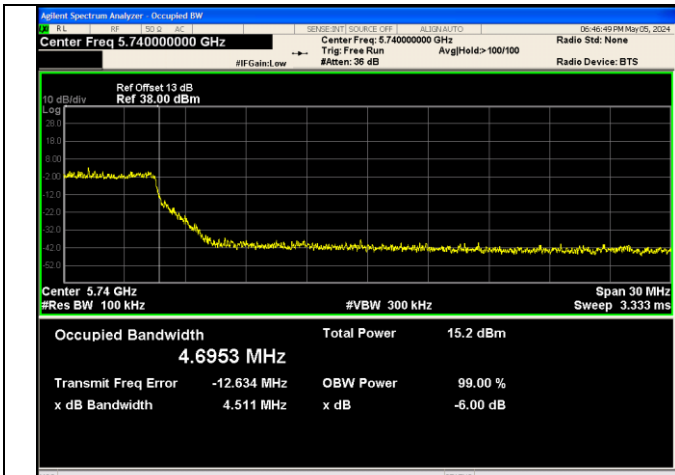
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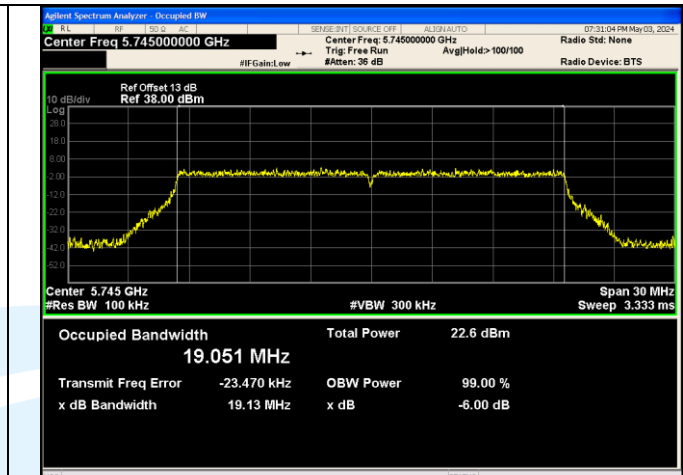
IEEE 802.11ac\_Channel 151\_40MHz\_Antenna 0



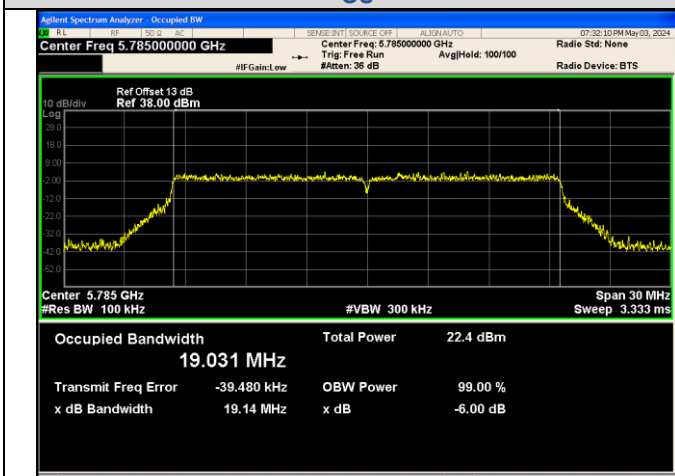
IEEE 802.11ac\_Channel 159\_40MHz\_Antenna 0



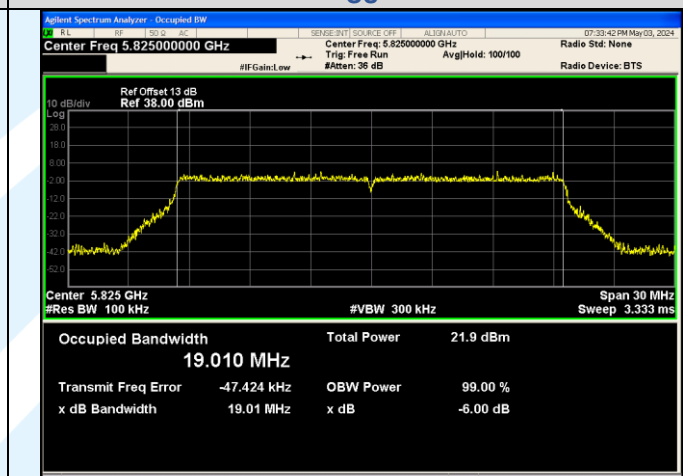
IEEE 802.11ax\_Channel 144\_20MHz\_Antenna 0\_RU&Index SU



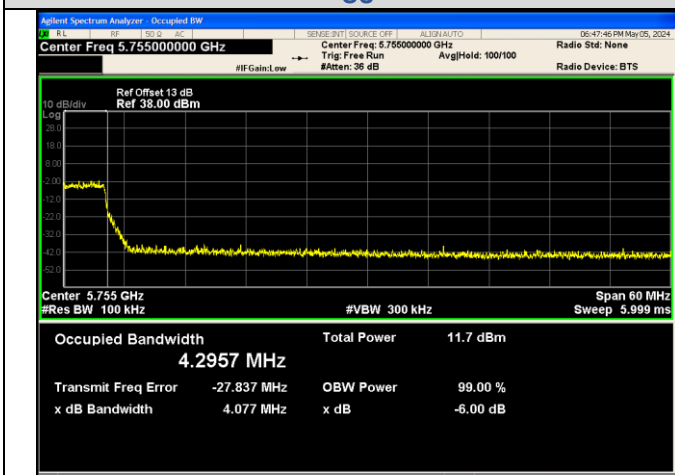
IEEE 802.11ax\_Channel 149\_20MHz\_Antenna 0\_RU&Index SU



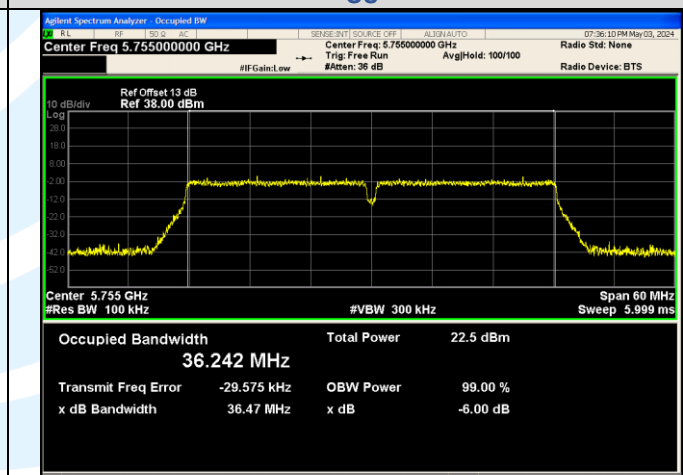
IEEE 802.11ax\_Channel 157\_20MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 165\_20MHz\_Antenna 0\_RU&Index SU

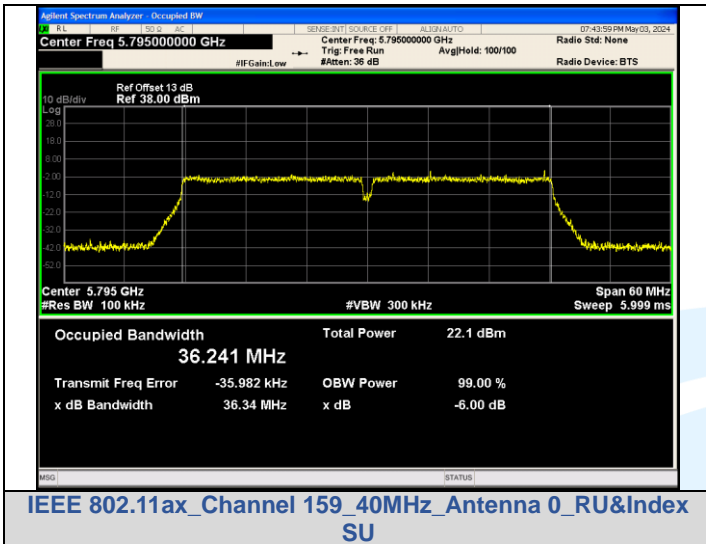


IEEE 802.11ax\_Channel 142\_40MHz\_Antenna 0\_RU&Index SU



IEEE 802.11ax\_Channel 151\_40MHz\_Antenna 0\_RU&Index SU





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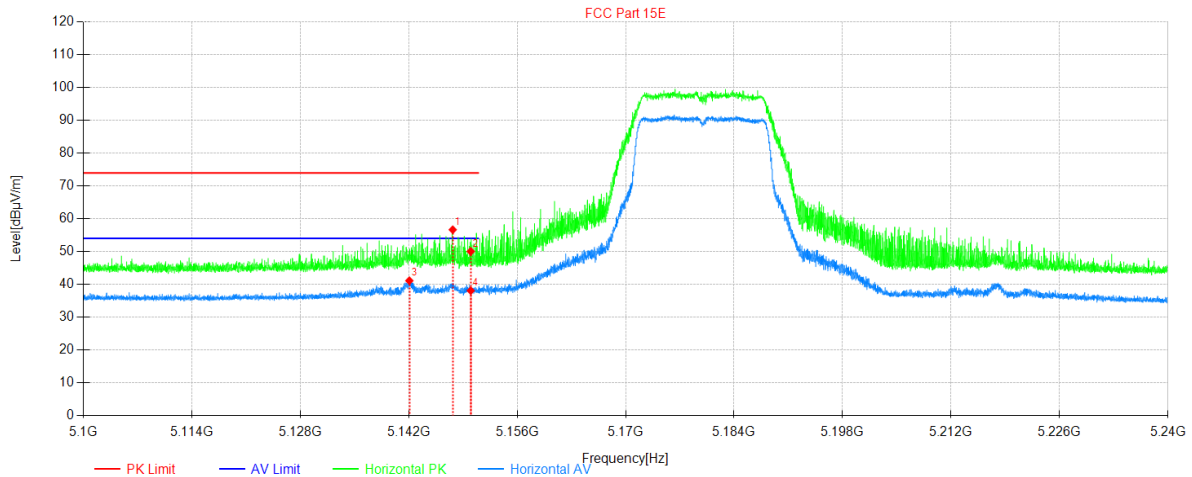
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## A.5 RADIATED SPURIOUS EMISSIONS& BAND EDGE MEASUREMENTS (RADIATED)

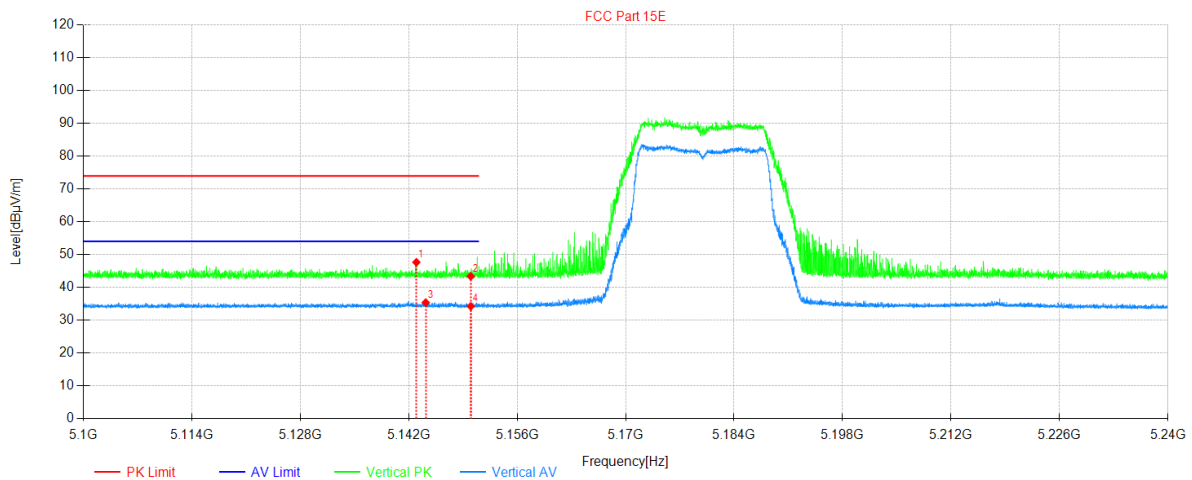
**Radiated Emission Test Data (9 KHz ~ 30 MHz):**  
 The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

IEEE 802.11a\_ Channel 36  
 Test Graph



Data List												
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict	
1	5147.688	58.01	-1.35	56.66	74.00	17.34	150	193	PK	Horizontal	PASS	
2	5150.013	51.43	-1.38	50.05	74.00	23.95	150	200	PK	Horizontal	PASS	
3	5142.088	42.43	-1.33	41.10	54.00	12.90	150	200	AV	Horizontal	PASS	
4	5150.013	39.45	-1.38	38.07	54.00	15.93	150	200	AV	Horizontal	PASS	

Test Graph



Data List												
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NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	5142.998	48.97	-1.32	47.65	74.00	26.35	150	86	PK	Vertical	PASS
2	5150.013	44.77	-1.38	43.39	74.00	30.61	150	63	PK	Vertical	PASS
3	5144.202	36.69	-1.33	35.36	54.00	18.64	150	78	AV	Vertical	PASS
4	5150.013	35.60	-1.38	34.22	54.00	19.78	150	71	AV	Vertical	PASS



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