

FCC ID: BCGA2301	 PCTEST Proud to be part of 	
IC: 579C-A2301		

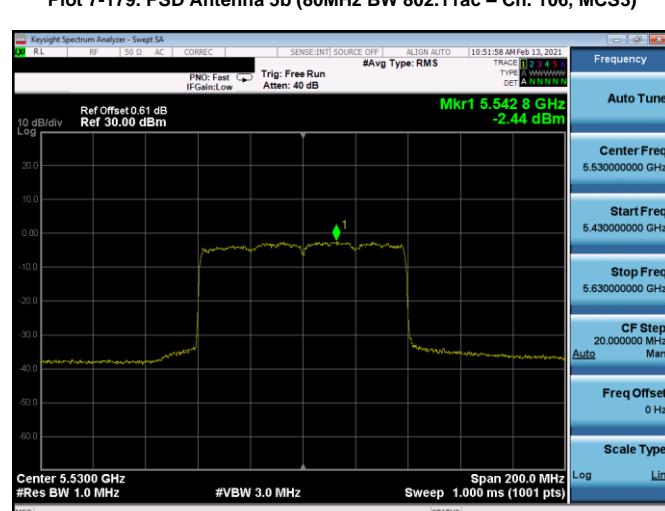
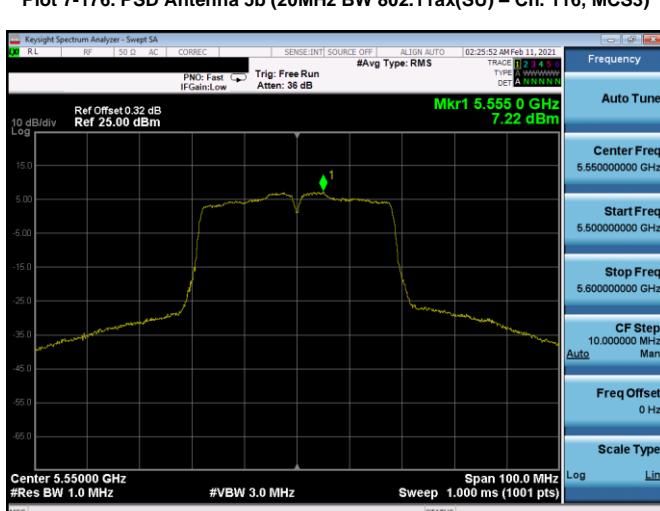
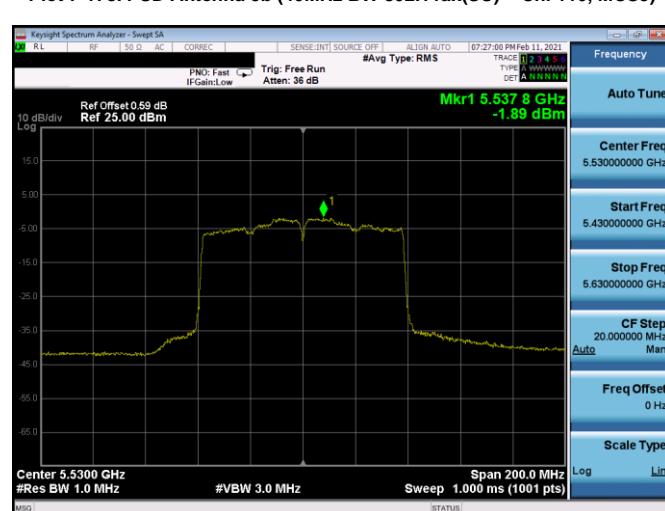
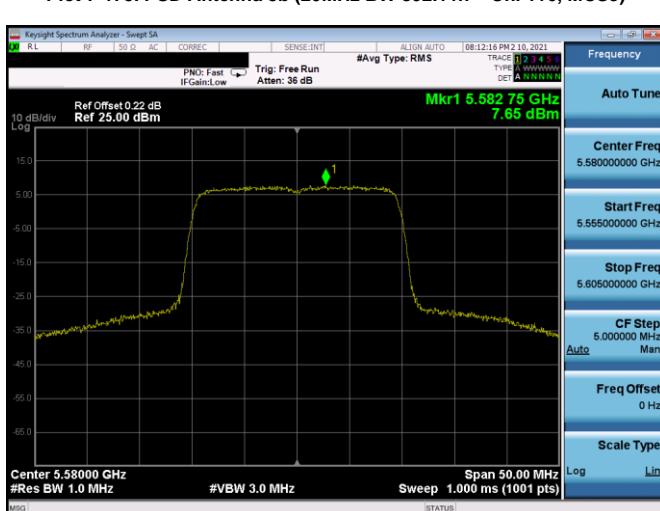
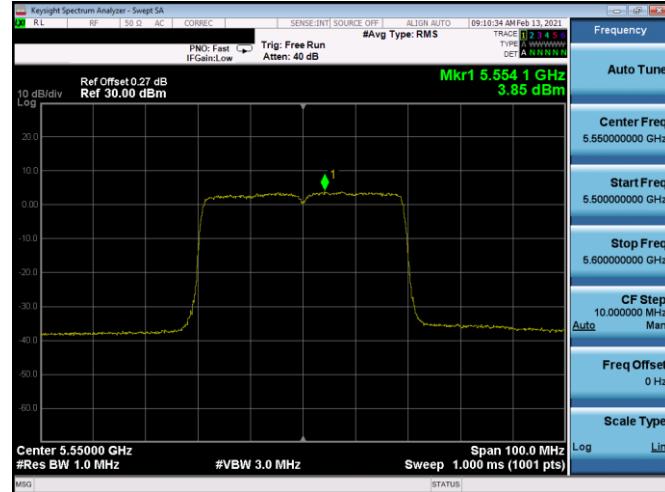
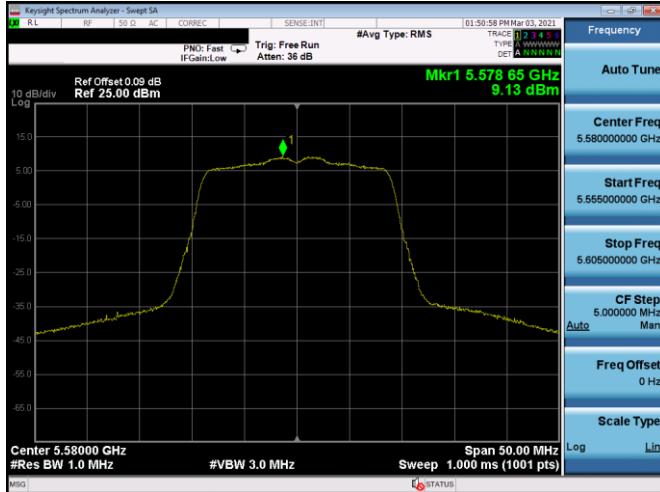
**MEASUREMENT REPORT
(CERTIFICATION)**
Approved by:
Quality Manager

Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device
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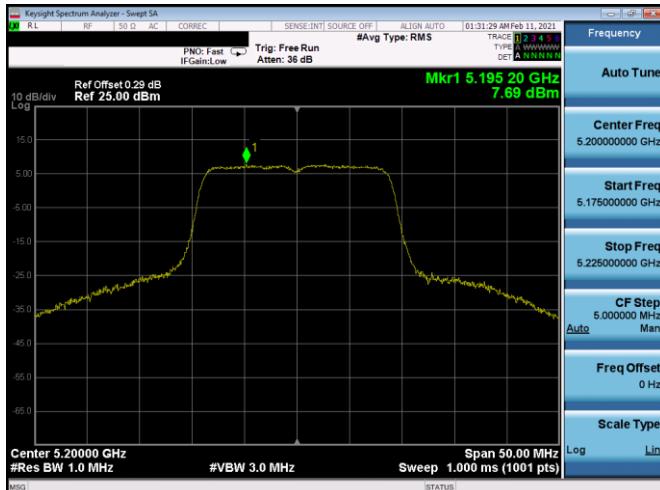
Page 93 of 354

V 10.3 11/16/2020

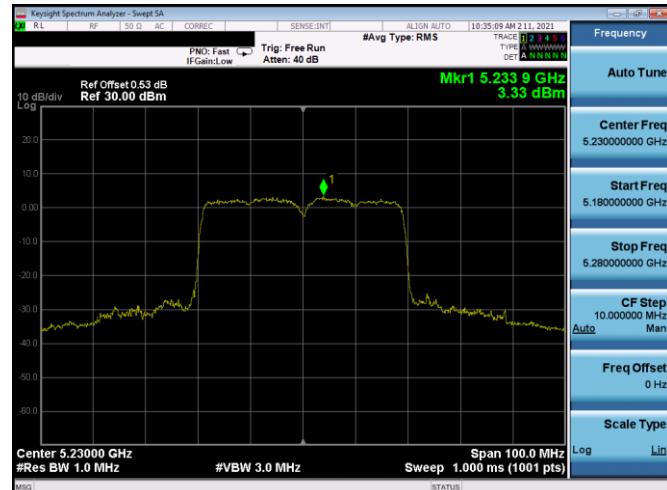
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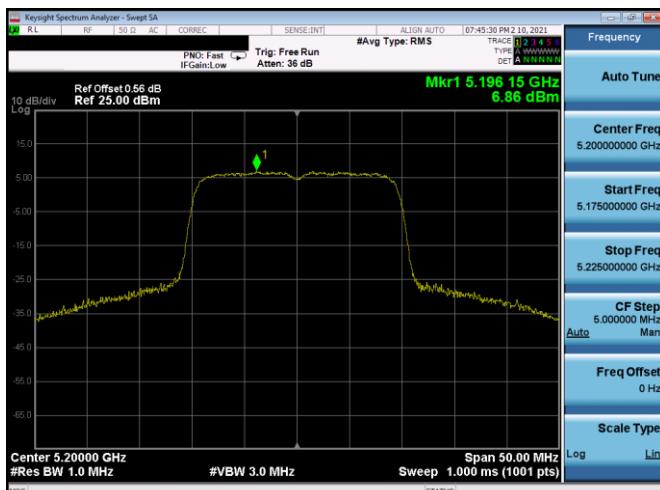
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 94 of 354	



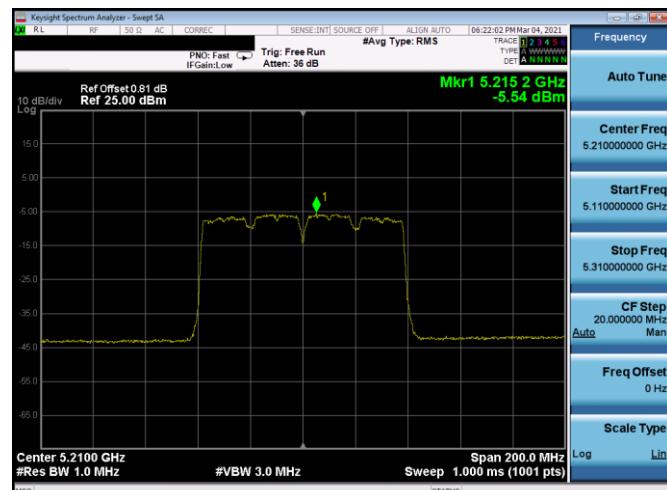
Plot 7-181. PSD Antenna 5b (20MHz BW 802.11n – Ch. 40, MCS5)



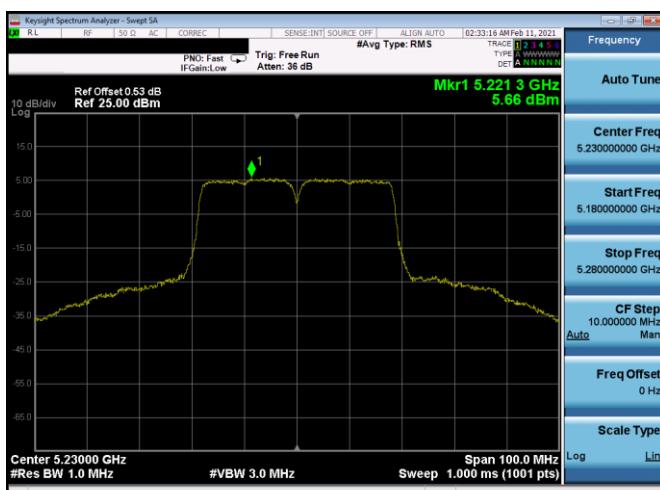
Plot 7-184. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 46, MCS11)



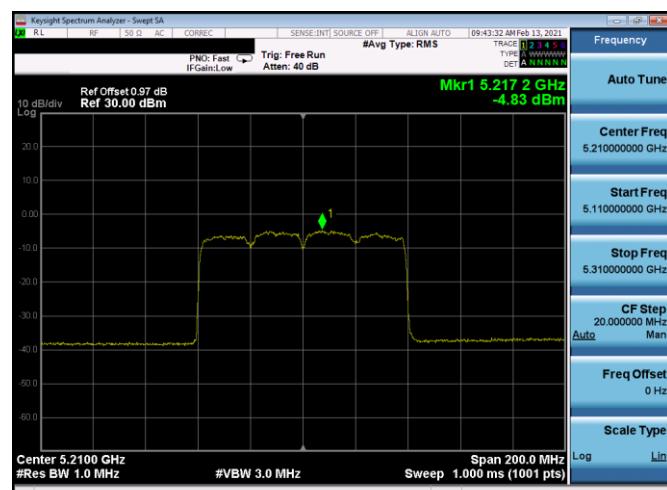
Plot 7-182. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 40, MCS11)



Plot 7-185. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 42, MCS5)

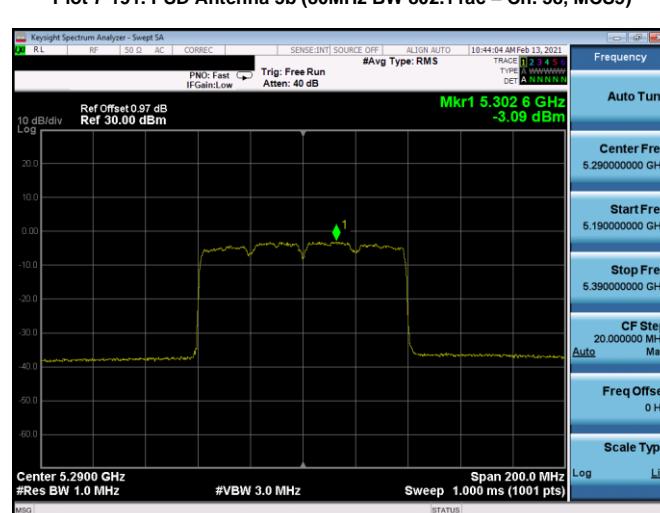
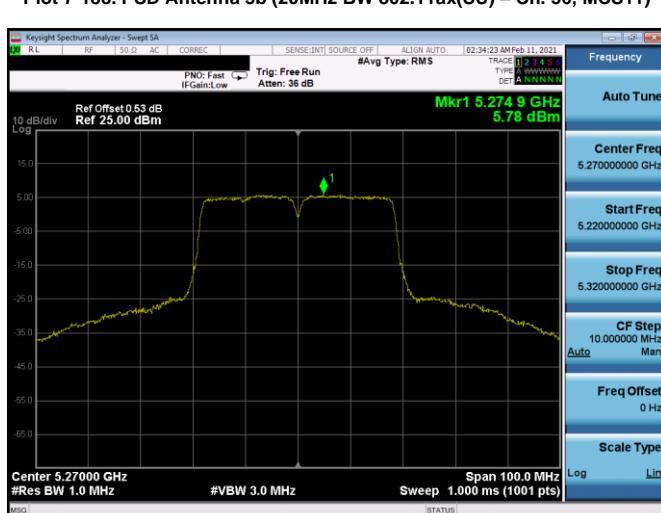
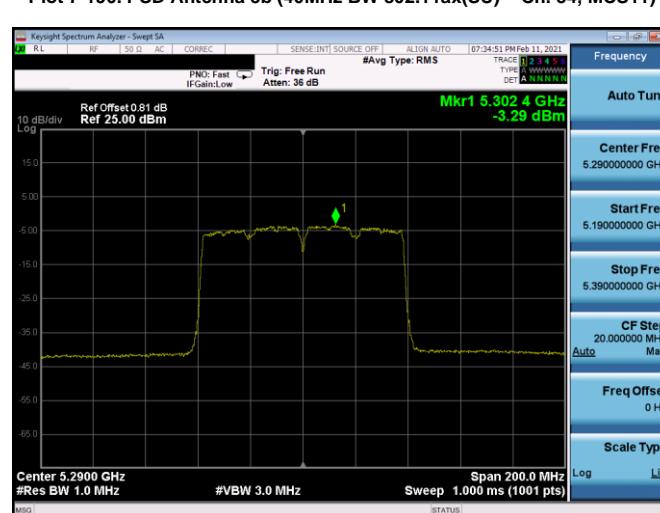
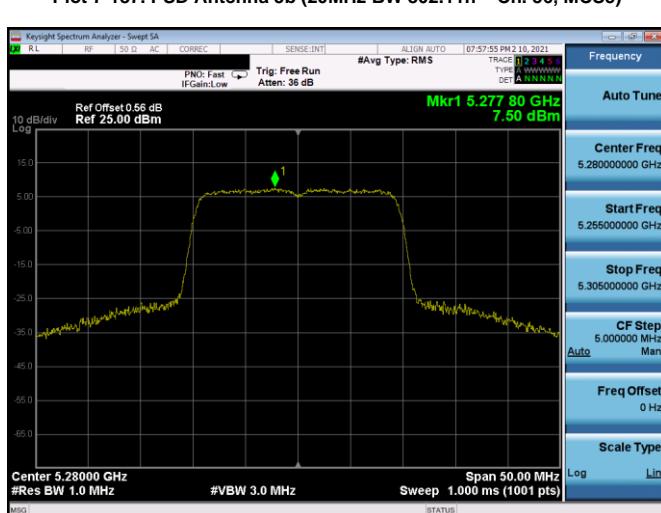
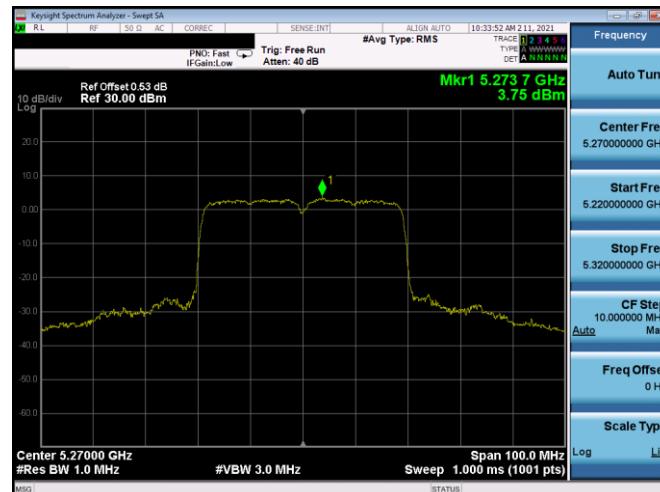
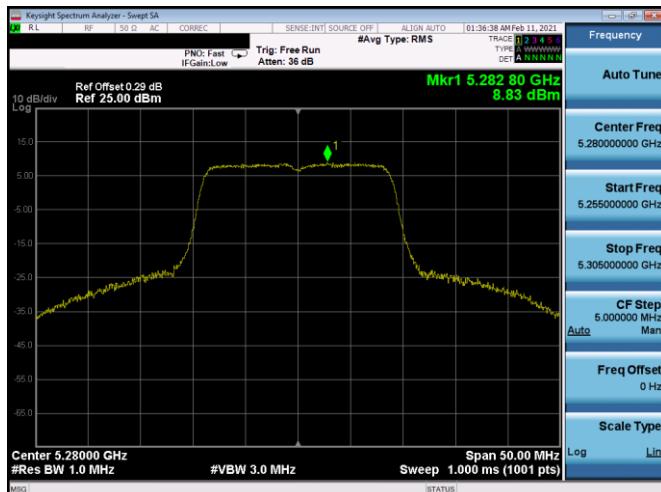


Plot 7-183. PSD Antenna 5b (40MHz BW 802.11n – Ch. 46, MCS5)

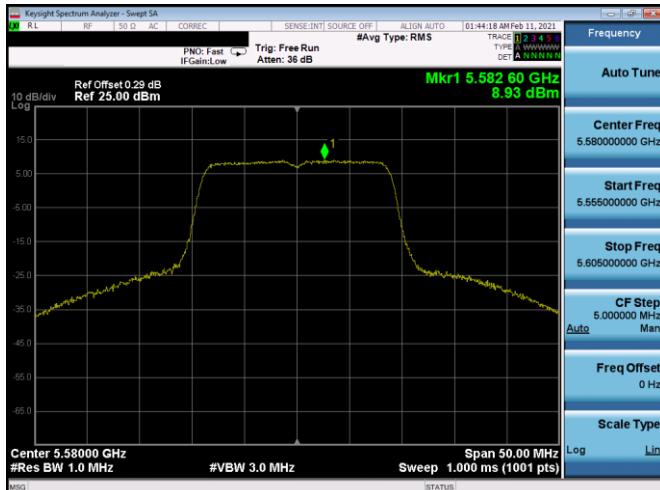


Plot 7-186. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 42, MCS11)

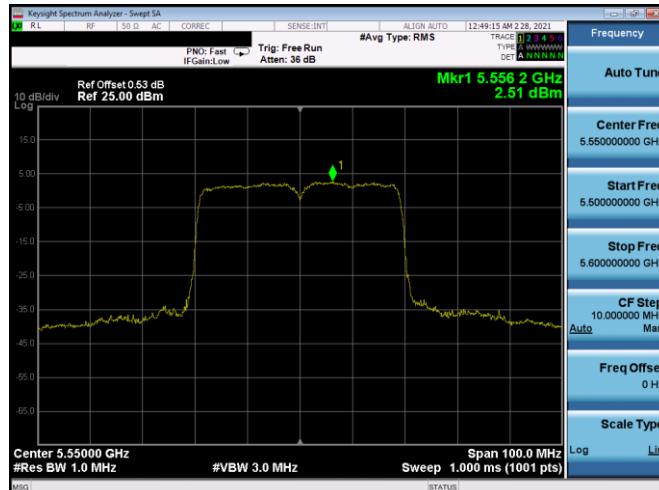
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 95 of 354



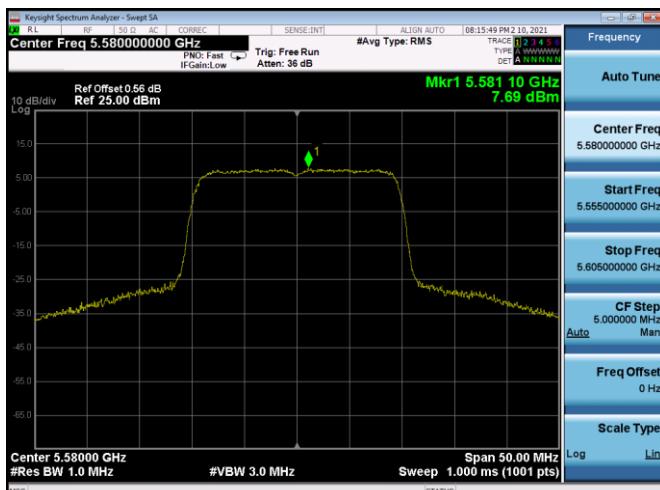
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 96 of 354



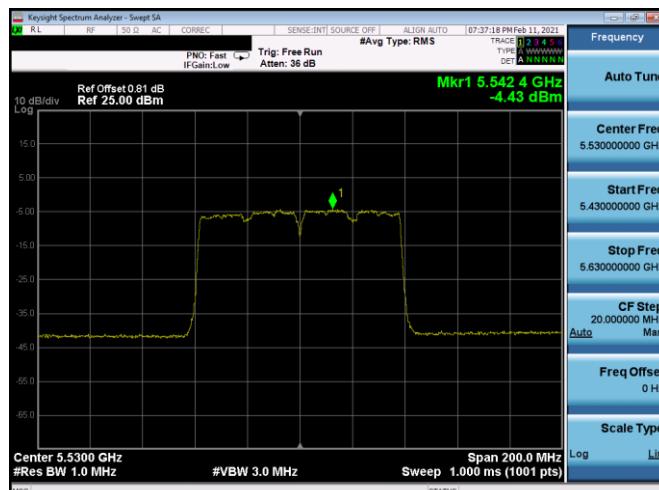
Plot 7-193. PSD Antenna 5b (20MHz BW 802.11n – Ch. 116, MCS5)



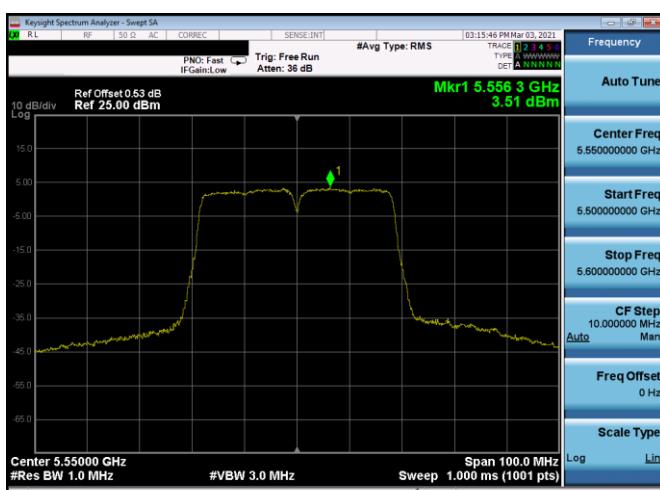
Plot 7-196. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 110, MCS11)



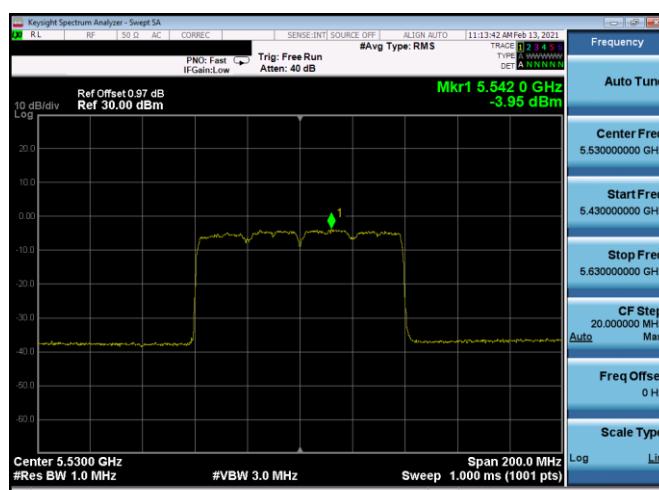
Plot 7-194. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 116, MCS11)



Plot 7-197. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 106, MCS5)



Plot 7-195. PSD Antenna 5b (40MHz BW 802.11n – Ch. 110, MCS5)



Plot 7-198. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 106, MCS11)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 97 of 354

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.77	30.0	-23.23
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.51	30.0	-23.49
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.64	30.0	-23.36
	5745	149	ax-SU (20MHz)	8/8.6 (MCS0)	4.43	30.0	-25.57
	5785	157	ax-SU (20MHz)	8/8.6 (MCS0)	4.05	30.0	-25.95
	5825	165	ax-SU (20MHz)	8/8.6 (MCS0)	4.55	30.0	-25.45
	5755	151	n (40MHz)	13.5/15 (MCS0)	3.84	30.0	-26.16
	5795	159	n (40MHz)	13.5/15 (MCS0)	3.91	30.0	-26.09
	5755	151	ax-SU (40MHz)	16/17.2 (MCS0)	1.30	30.0	-28.70
	5795	159	ax-SU (40MHz)	16/17.2 (MCS0)	1.64	30.0	-28.36
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	0.13	30.0	-29.87
	5775	155	ax-SU (80MHz)	34/36.0 (MCS0)	-2.79	30.0	-32.79

Table 7-95. Band 3 Power Spectral Density Measurements Antenna 5b (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	26/28.9 (MCS3)	7.56	30.0	-22.44
	5785	157	n (20MHz)	26/28.9 (MCS3)	6.98	30.0	-23.02
	5825	165	n (20MHz)	26/28.9 (MCS3)	7.01	30.0	-22.99
	5745	149	ax-SU (20MHz)	33/34.4 (MCS3)	5.46	30.0	-24.54
	5785	157	ax-SU (20MHz)	33/34.4 (MCS3)	5.01	30.0	-24.99
	5825	165	ax-SU (20MHz)	33/34.4 (MCS3)	5.38	30.0	-24.62
	5755	151	n (40MHz)	54/60 (MCS3)	4.25	30.0	-25.75
	5795	159	n (40MHz)	54/60 (MCS3)	4.44	30.0	-25.56
	5755	151	ax-SU (40MHz)	65/68.8 (MCS3)	1.75	30.0	-28.25
	5795	159	ax-SU (40MHz)	65/68.8 (MCS3)	1.75	30.0	-28.25
	5775	155	ac (80MHz)	117/130 (MCS3)	0.13	30.0	-29.87
	5775	155	ax-SU (80MHz)	136/144.1 (MCS3)	-2.48	30.0	-32.48

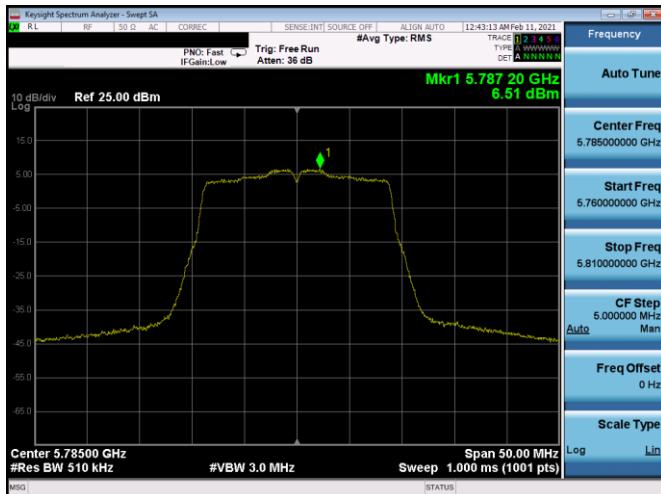
Table 7-96. Band 3 Power Spectral Density Measurements Antenna 5b (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 98 of 354

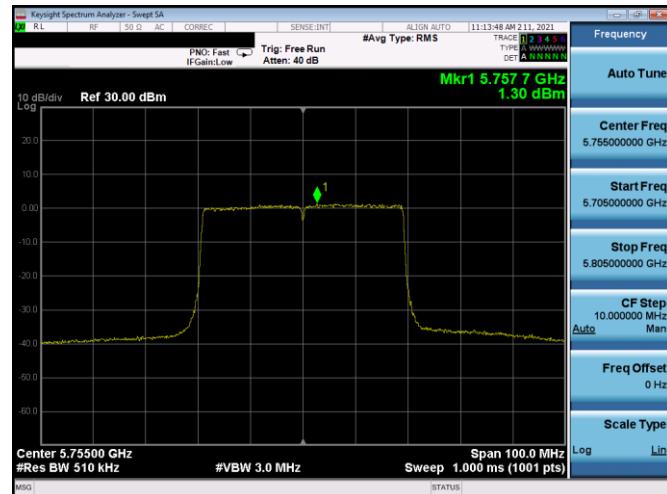
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	52/57.8 (MCS5)	6.07	30.0	-23.93
	5785	157	n (20MHz)	52/57.8 (MCS5)	5.77	30.0	-24.23
	5825	165	n (20MHz)	52/57.8 (MCS5)	5.93	30.0	-24.07
	5745	149	ax-SU (20MHz)	135/143.4 (MCS11)	5.31	30.0	-24.69
	5785	157	ax-SU (20MHz)	135/143.4 (MCS11)	5.26	30.0	-24.74
	5825	165	ax-SU (20MHz)	135/143.4 (MCS11)	5.57	30.0	-24.43
	5755	151	n (40MHz)	108/120 (MCS5)	3.51	30.0	-26.49
	5795	159	n (40MHz)	108/120 (MCS5)	3.20	30.0	-26.80
	5755	151	ax-SU (40MHz)	271/286.8 (MCS11)	2.51	30.0	-27.49
	5795	159	ax-SU (40MHz)	271/286.8 (MCS11)	2.33	30.0	-27.67
	5775	155	ac (80MHz)	234/260 (MCS5)	-1.94	30.0	-31.94
	5775	155	ax-SU (80MHz)	567/600.5 (MCS11)	-4.03	30.0	-34.03

Table 7-97. Band 3 Power Spectral Density Measurements Antenna 5b (High Data Rate)

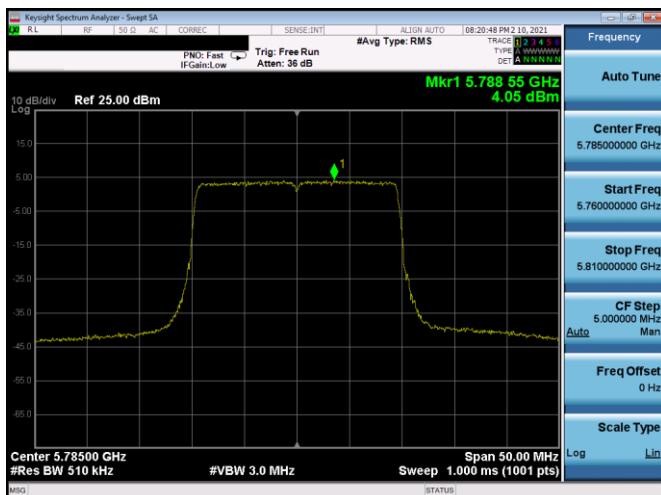
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 99 of 354	



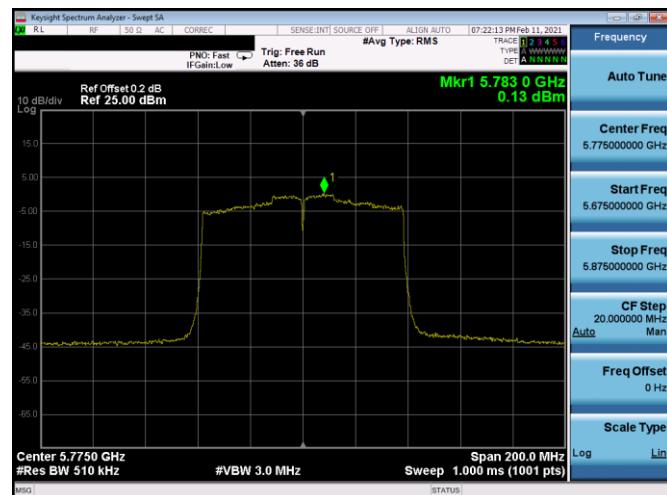
Plot 7-199. PSD Antenna 5b (20MHz BW 802.11n – Ch. 157, MCS0)



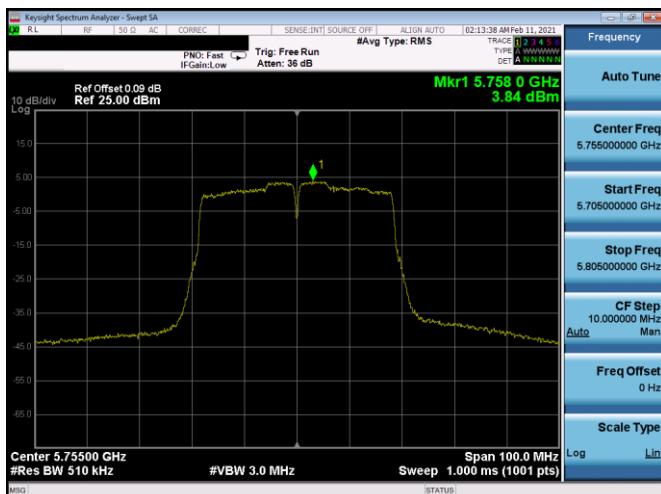
Plot 7-202. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 151, MCS0)



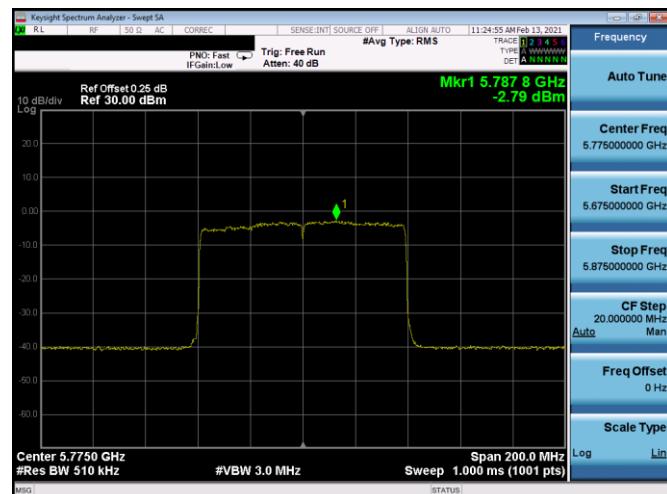
Plot 7-200. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 157, MCS0)



Plot 7-203. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 155, MCS0)

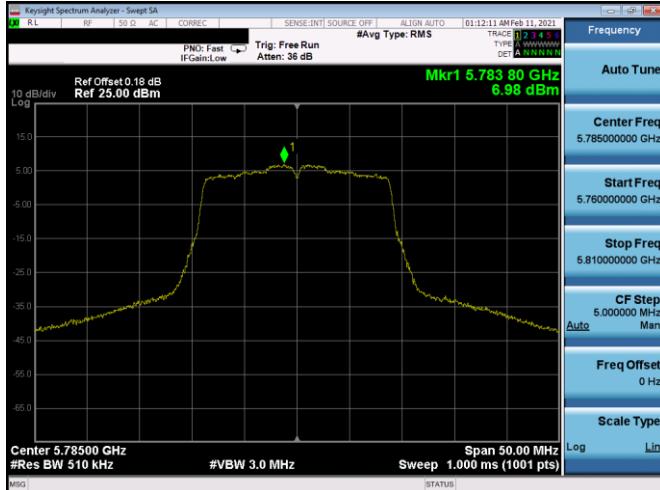


Plot 7-201. PSD Antenna 5b (40MHz BW 802.11n – Ch. 151, MCS0)

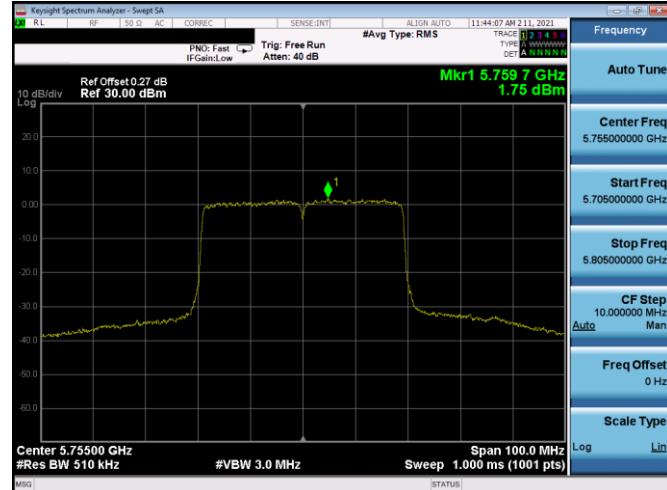


Plot 7-204. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 155, MCS0)

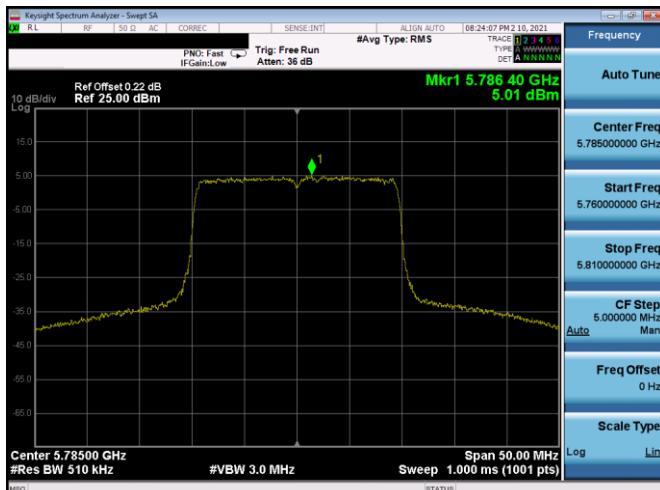
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 100 of 354



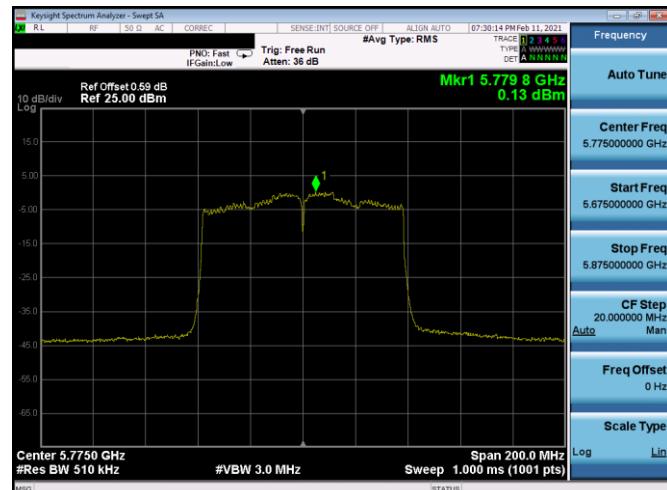
Plot 7-205. PSD Antenna 5b (20MHz BW 802.11n - Ch. 157, MCS3)



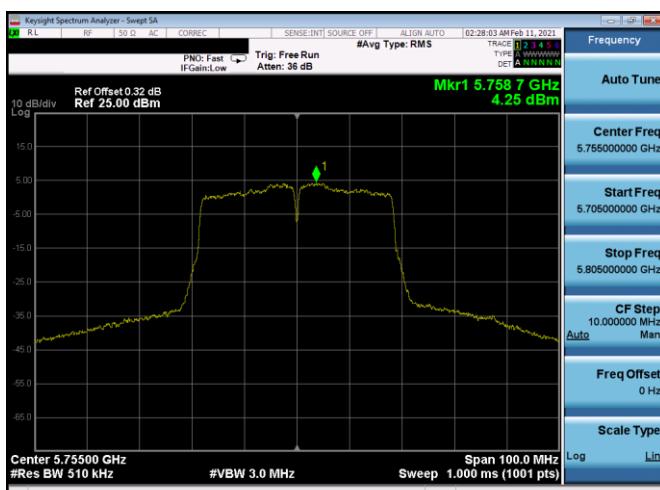
Plot 7-208. PSD Antenna 5b (40MHz BW 802.11ax(SU) - Ch. 151, MCS3)



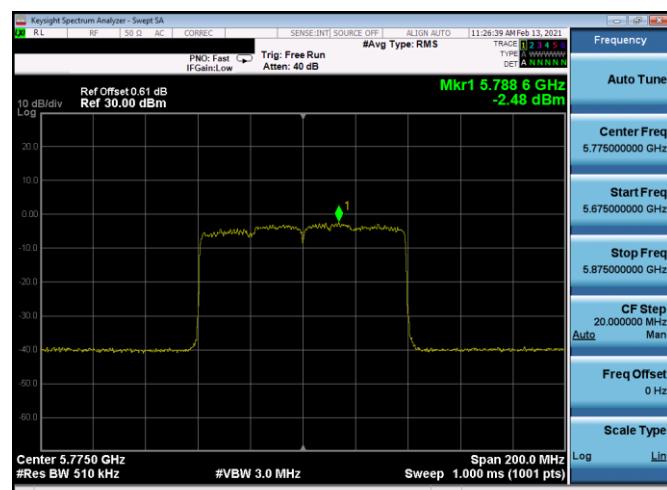
Plot 7-206. PSD Antenna 5b (20MHz BW 802.11ax(SU) - Ch. 157, MCS3)



Plot 7-209. PSD Antenna 5b (80MHz BW 802.11ac - Ch. 155, MCS3)

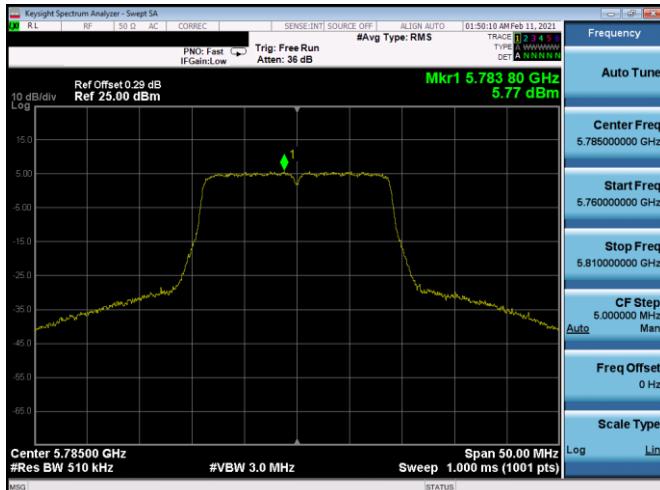


Plot 7-207. PSD Antenna 5b (40MHz BW 802.11n - Ch. 151, MCS3)

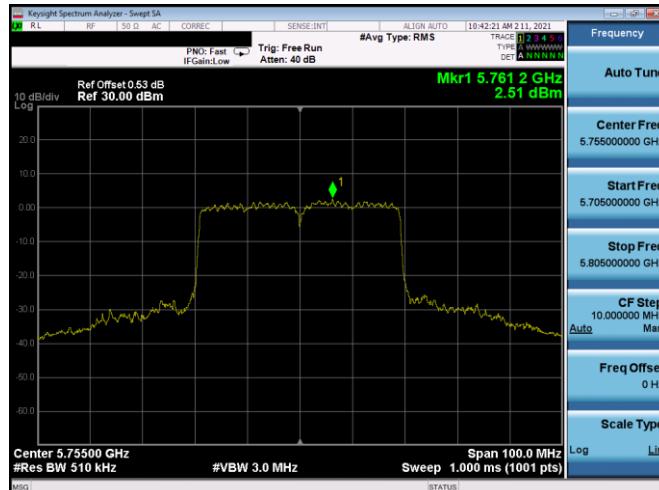


Plot 7-210. PSD Antenna 5b (80MHz BW 802.11ax(SU) - Ch. 155, MCS3)

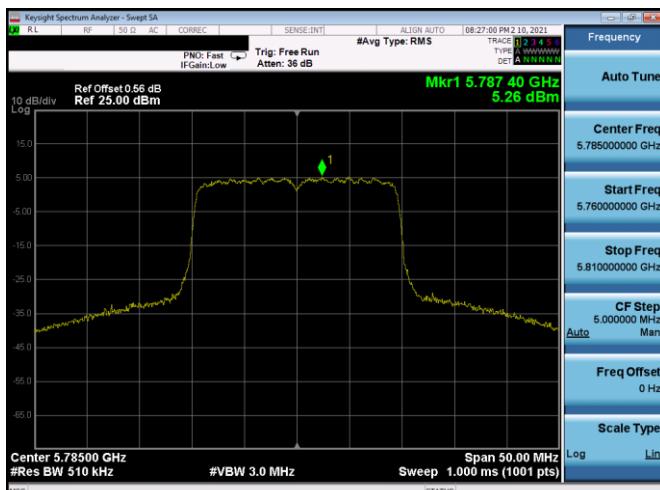
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 101 of 354



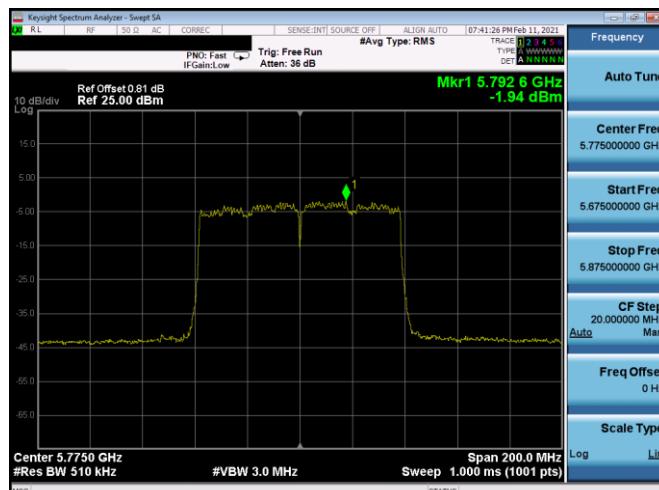
Plot 7-211. PSD Antenna 5b (20MHz BW 802.11n – Ch. 157, MCS5)



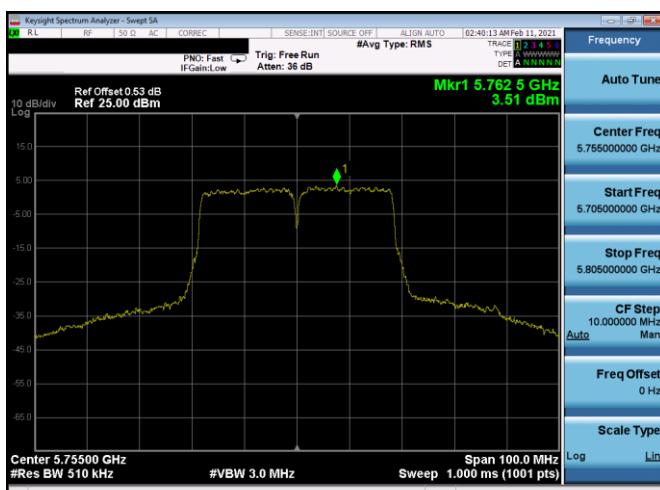
Plot 7-214. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



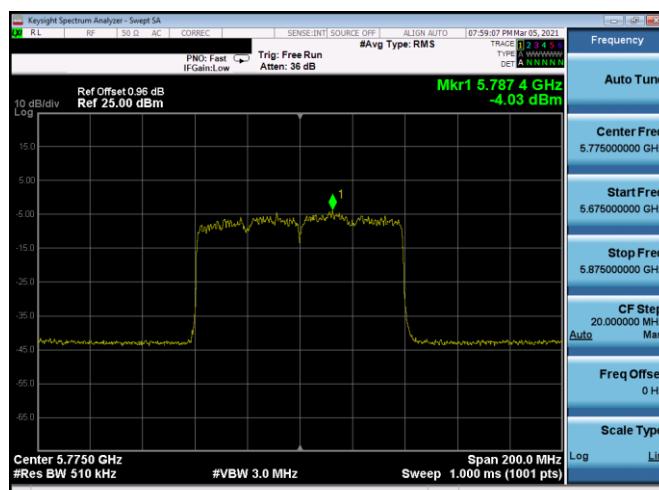
Plot 7-212. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-215. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 155, MCS5)



Plot 7-213. PSD Antenna 5b (40MHz BW 802.11n – Ch. 151, MCS5)



Plot 7-216. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 155, MCS11)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 102 of 354	

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	n (20MHz)	6.5/7.2 (MCS0)	1.63	5.50	7.13	10.0	-2.87
5200	40	n (20MHz)	6.5/7.2 (MCS0)	1.66	5.50	7.16	10.0	-2.84
5240	48	n (20MHz)	6.5/7.2 (MCS0)	1.90	5.50	7.40	10.0	-2.60
5180	36	ax-SU (20MHz)	8/8.6 (MCS0)	-0.09	5.50	5.41	10.0	-4.59
5200	40	ax-SU (20MHz)	8/8.6 (MCS0)	-0.14	5.50	5.36	10.0	-4.64
5240	48	ax-SU (20MHz)	8/8.6 (MCS0)	0.20	5.50	5.70	10.0	-4.30
5190	38	n (40MHz)	13.5/15 (MCS0)	1.08	5.50	6.58	10.0	-3.42
5230	46	n (40MHz)	13.5/15 (MCS0)	1.91	5.50	7.41	10.0	-2.59
5190	38	ax-SU (40MHz)	16/17.2 (MCS0)	-1.02	5.50	4.48	10.0	-5.52
5230	46	ax-SU (40MHz)	16/17.2 (MCS0)	-0.04	5.50	5.46	10.0	-4.54
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.98	5.50	2.52	10.0	-7.48
5210	42	ax-SU (80MHz)	34/36.0 (MCS0)	-4.34	5.50	1.16	10.0	-8.84

Table 7-98. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 5b (Low Data Rate)

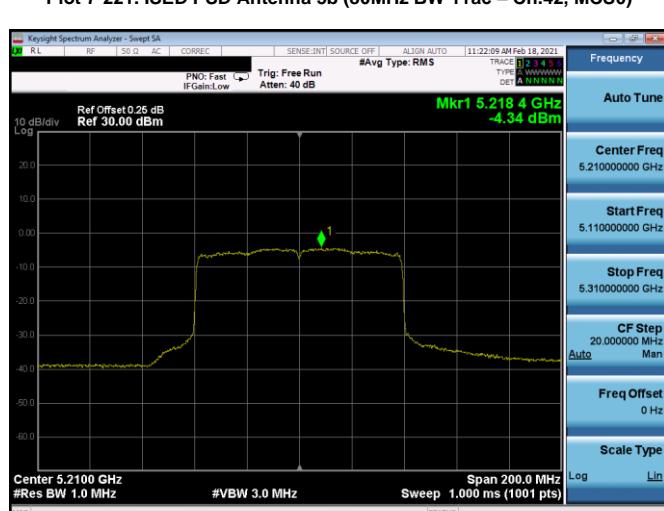
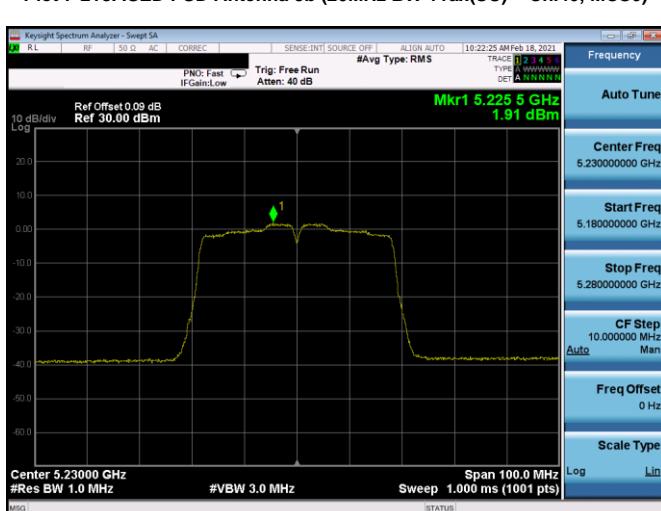
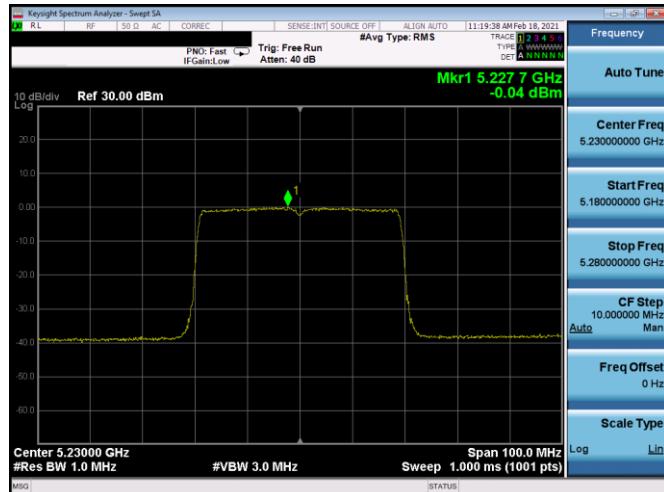
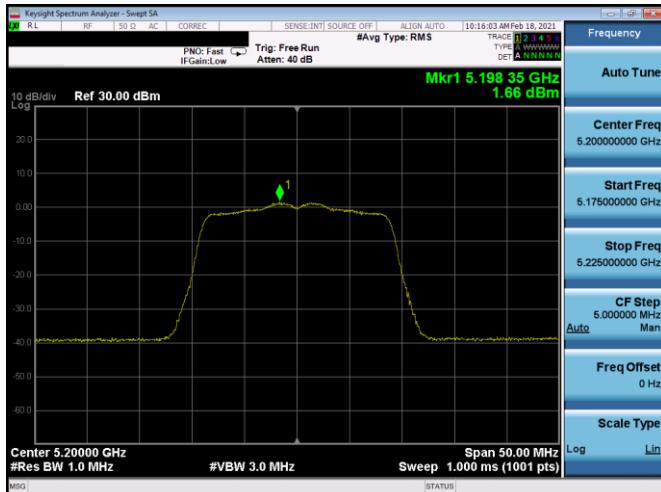
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	n (20MHz)	26/28.9 (MCS3)	2.82	5.50	8.32	10.0	-1.68
5200	40	n (20MHz)	26/28.9 (MCS3)	1.70	5.50	7.20	10.0	-2.80
5240	48	n (20MHz)	26/28.9 (MCS3)	2.00	5.50	7.50	10.0	-2.50
5180	36	ax-SU (20MHz)	33/34.4 (MCS3)	0.47	5.50	5.97	10.0	-4.03
5200	40	ax-SU (20MHz)	33/34.4 (MCS3)	0.33	5.50	5.83	10.0	-4.17
5240	48	ax-SU (20MHz)	33/34.4 (MCS3)	0.70	5.50	6.20	10.0	-3.80
5190	38	n (40MHz)	54/60 (MCS3)	0.81	5.50	6.31	10.0	-3.69
5230	46	n (40MHz)	54/60 (MCS3)	1.90	5.50	7.40	10.0	-2.60
5190	38	ax-SU (40MHz)	65/68.8 (MCS3)	-1.09	5.50	4.41	10.0	-5.59
5230	46	ax-SU (40MHz)	65/68.8 (MCS3)	0.43	5.50	5.93	10.0	-4.07
5210	42	ac (80MHz)	117/130 (MCS3)	-3.67	5.50	1.83	10.0	-8.17
5210	42	ax-SU (80MHz)	136/144.1 (MCS3)	-5.22	5.50	0.28	10.0	-9.72

Table 7-99. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 5b (Mid Data Rate)

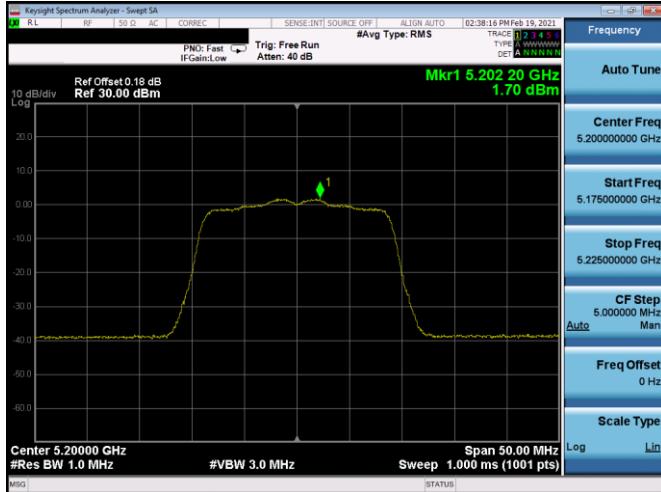
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	n (20MHz)	52/57.8 (MCS5)	0.96	5.50	6.46	10.0	-3.54
5200	40	n (20MHz)	52/57.8 (MCS5)	0.79	5.50	6.29	10.0	-3.71
5240	48	n (20MHz)	52/57.8 (MCS5)	1.09	5.50	6.59	10.0	-3.41
5180	36	ax-SU (20MHz)	135/143.4 (MCS11)	0.90	5.50	6.40	10.0	-3.60
5200	40	ax-SU (20MHz)	135/143.4 (MCS11)	0.72	5.50	6.22	10.0	-3.78
5240	48	ax-SU (20MHz)	135/143.4 (MCS11)	0.92	5.50	6.42	10.0	-3.58
5190	38	n (40MHz)	108/120 (MCS5)	-0.74	5.50	4.76	10.0	-5.24
5230	46	n (40MHz)	108/120 (MCS5)	0.83	5.50	6.33	10.0	-3.67
5190	38	ax-SU (40MHz)	271/286.8 (MCS11)	-2.89	5.50	2.61	10.0	-7.39
5230	46	ax-SU (40MHz)	271/286.8 (MCS11)	0.67	5.50	6.17	10.0	-3.83
5210	42	ac (80MHz)	234/260 (MCS5)	-5.60	5.50	-0.10	10.0	-10.10
5210	42	ax-SU (80MHz)	567/600.5 (MCS11)	-6.42	5.50	-0.92	10.0	-10.92

Table 7-100. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 5b (High Data Rate)

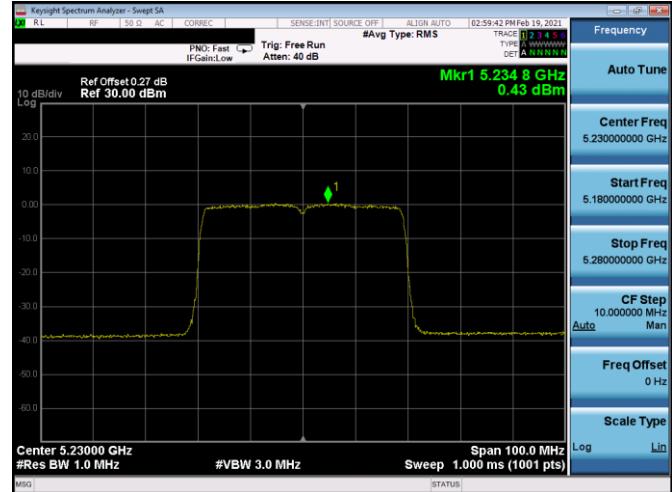
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 					MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device					Page 103 of 354



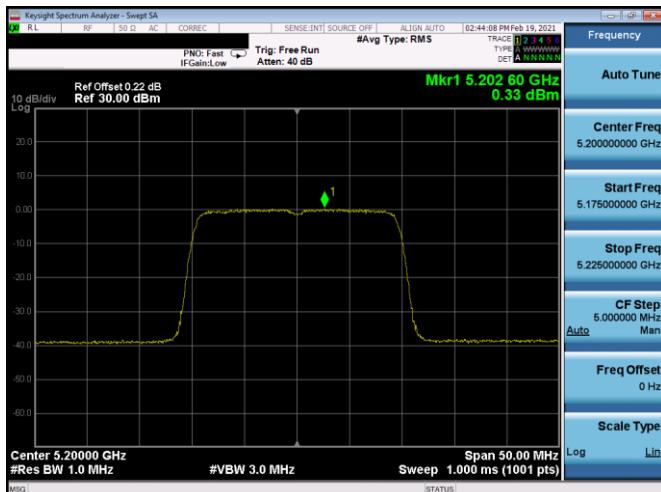
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 104 of 354



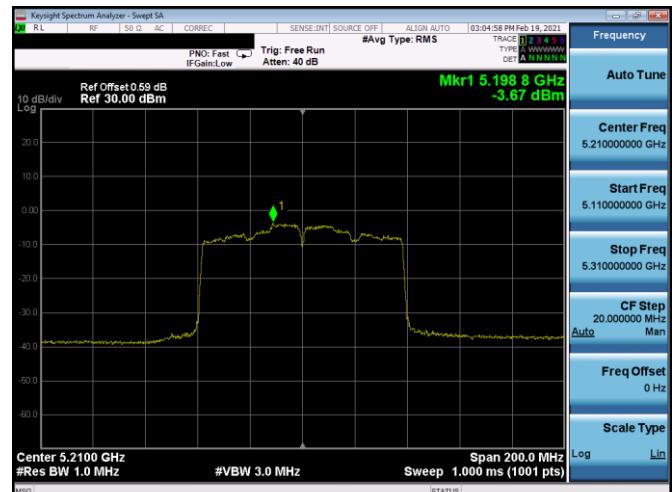
Plot 7-223. ISED PSD Antenna 5b (20MHz BW 11n – Ch.40, MCS3)



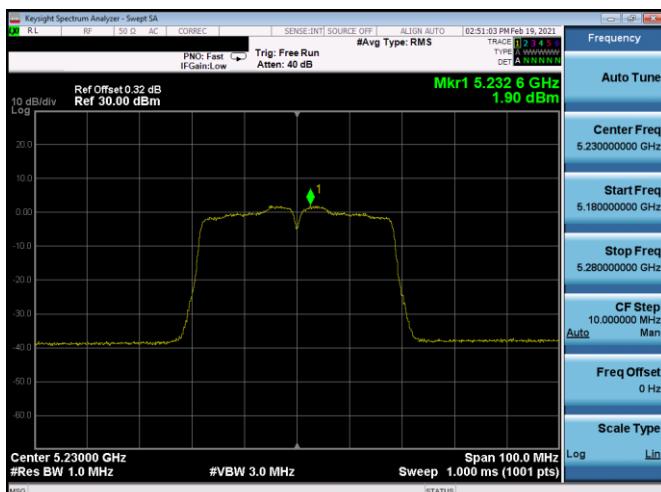
Plot 7-226. ISED PSD Antenna 5b (40MHz BW 11ax(SU) – Ch.46, MCS3)



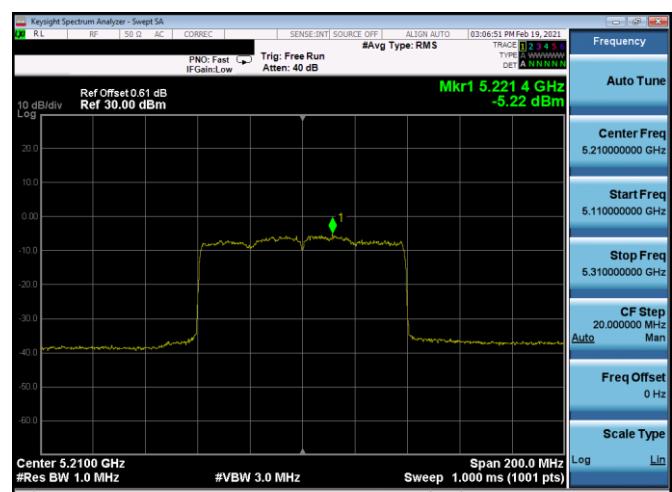
Plot 7-224. ISED PSD Antenna 5b (20MHz BW 11ax(SU) – Ch.40, MCS3)



Plot 7-227. ISED PSD Antenna 5b (80MHz BW 11ac – Ch.42, MCS3)



Plot 7-225. ISED PSD Antenna 5b (40MHz BW 11n – Ch.46, MCS3)



Plot 7-228. ISED PSD Antenna 5b (80MHz BW 11ax(SU) – Ch.42, MCS3)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 105 of 354	