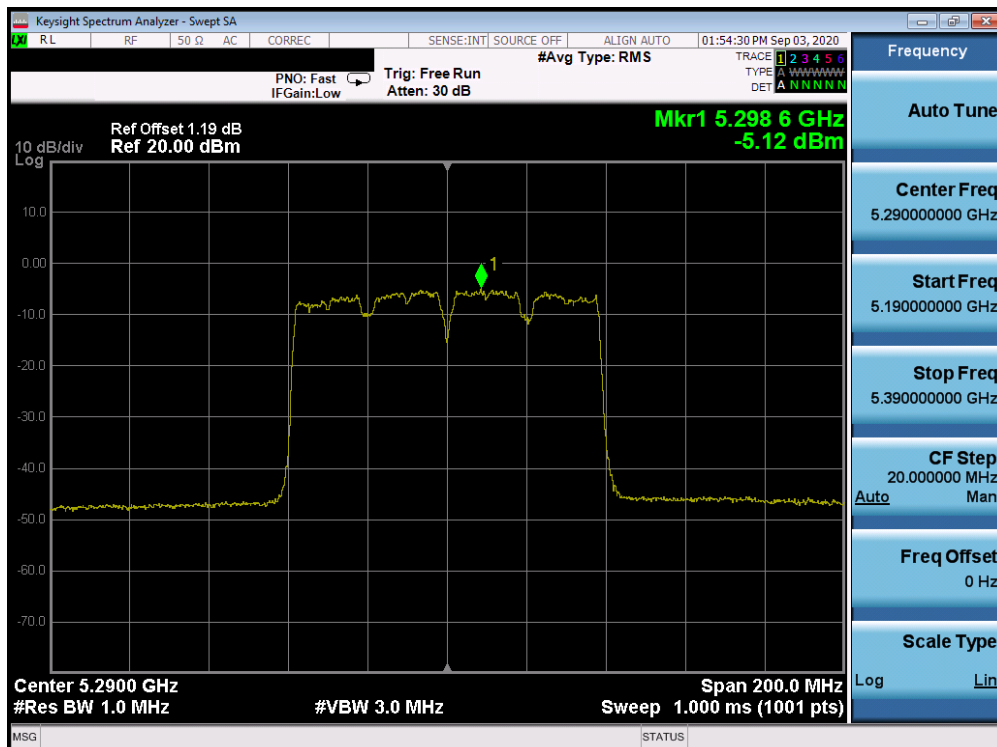
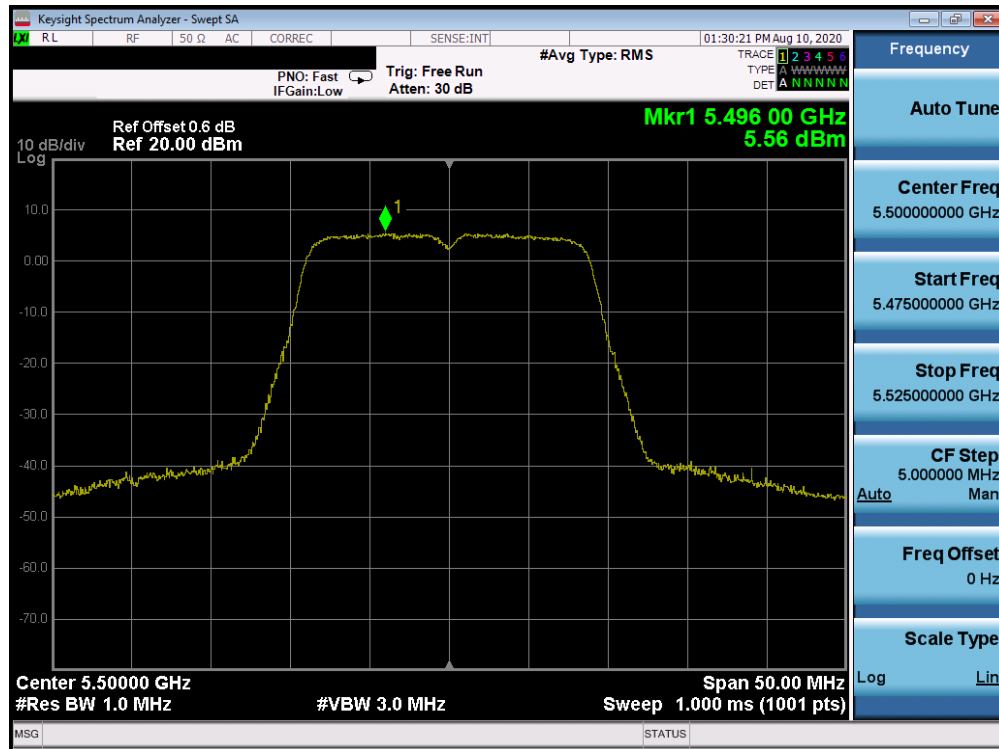


Plot 7-207. Power Spectral Density Plot CDD Primary Antenna 2b (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

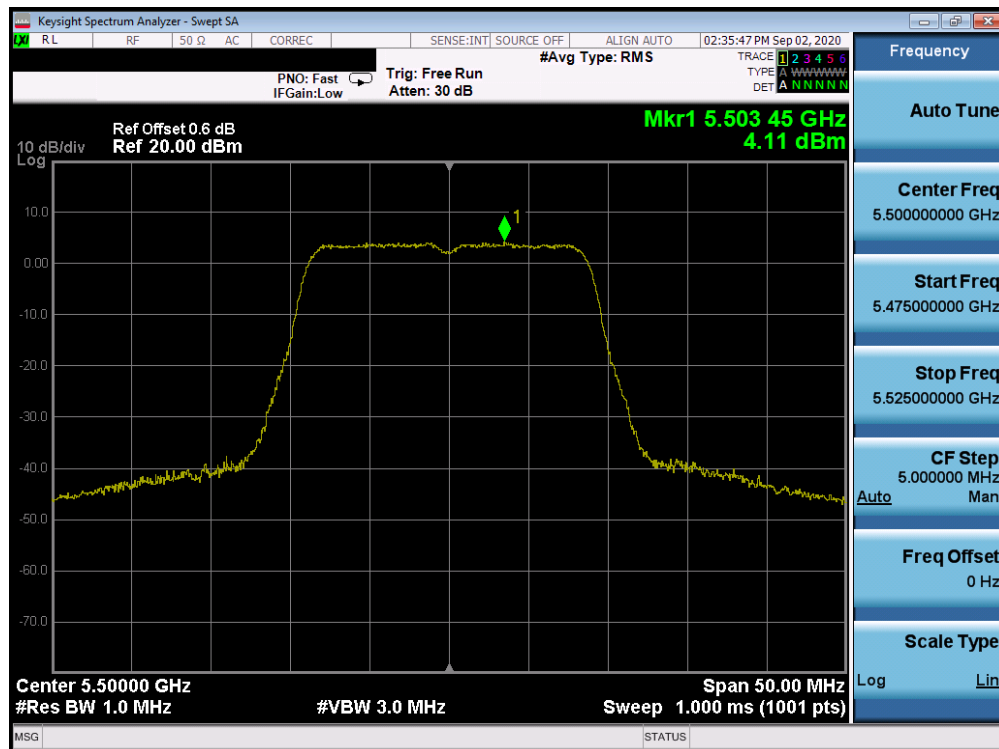


Plot 7-208. Power Spectral Density Plot CDD Primary Antenna 2a (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 148 of 344

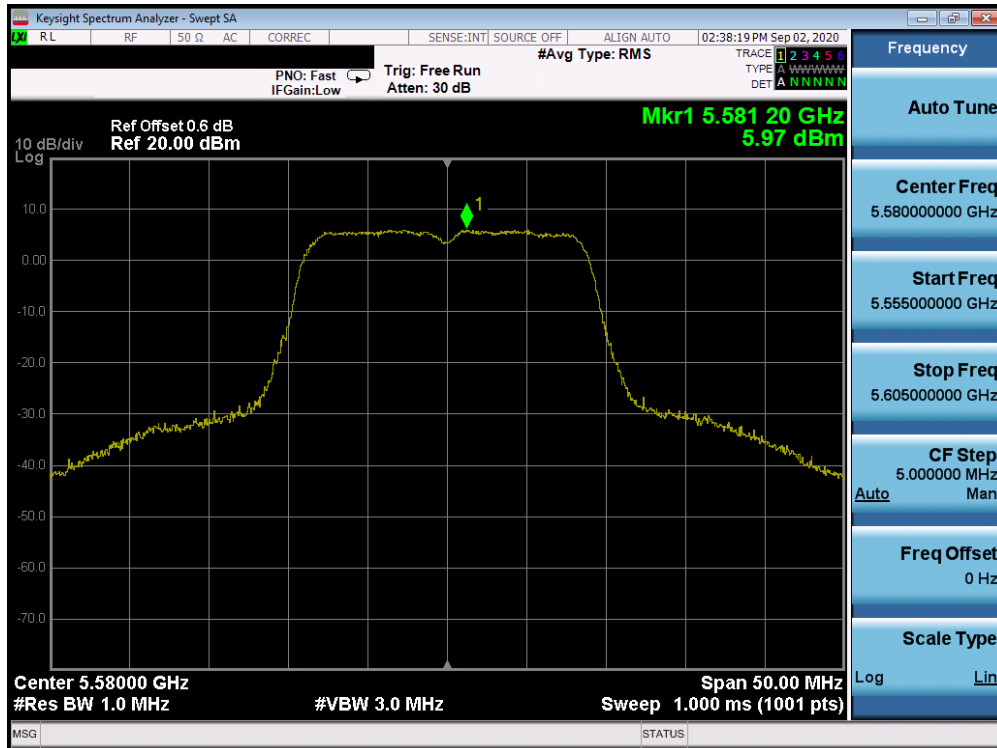


Plot 7-209. Power Spectral Density Plot CDD Primary Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

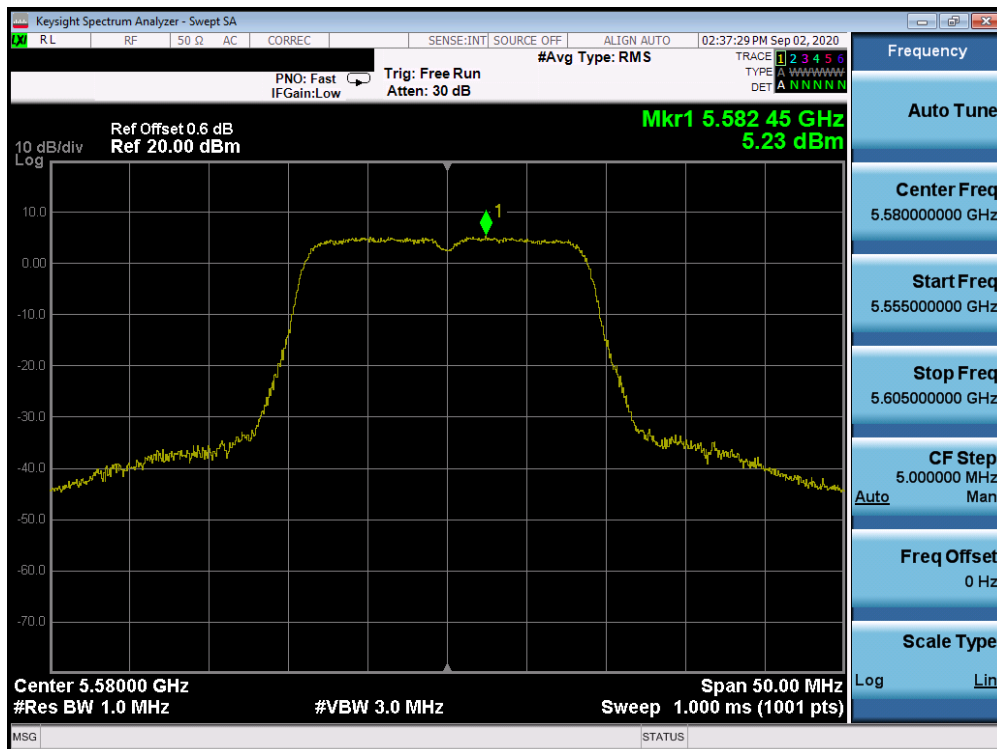


Plot 7-210. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 149 of 344

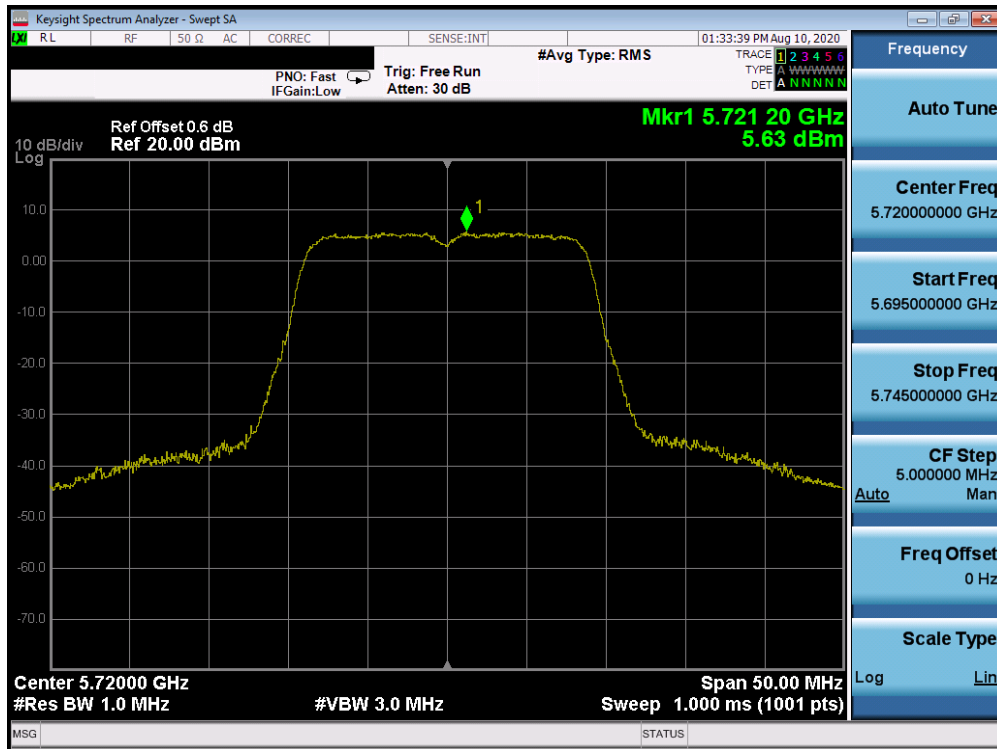


Plot 7-211. Power Spectral Density Plot CDD Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 116

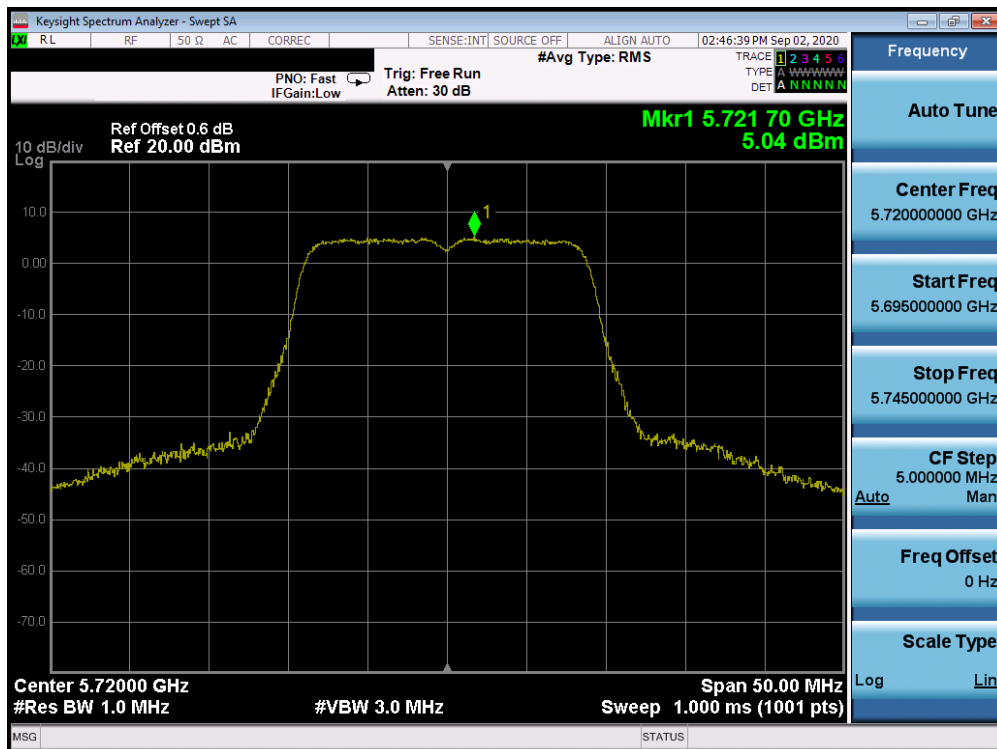


Plot 7-212. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 150 of 344

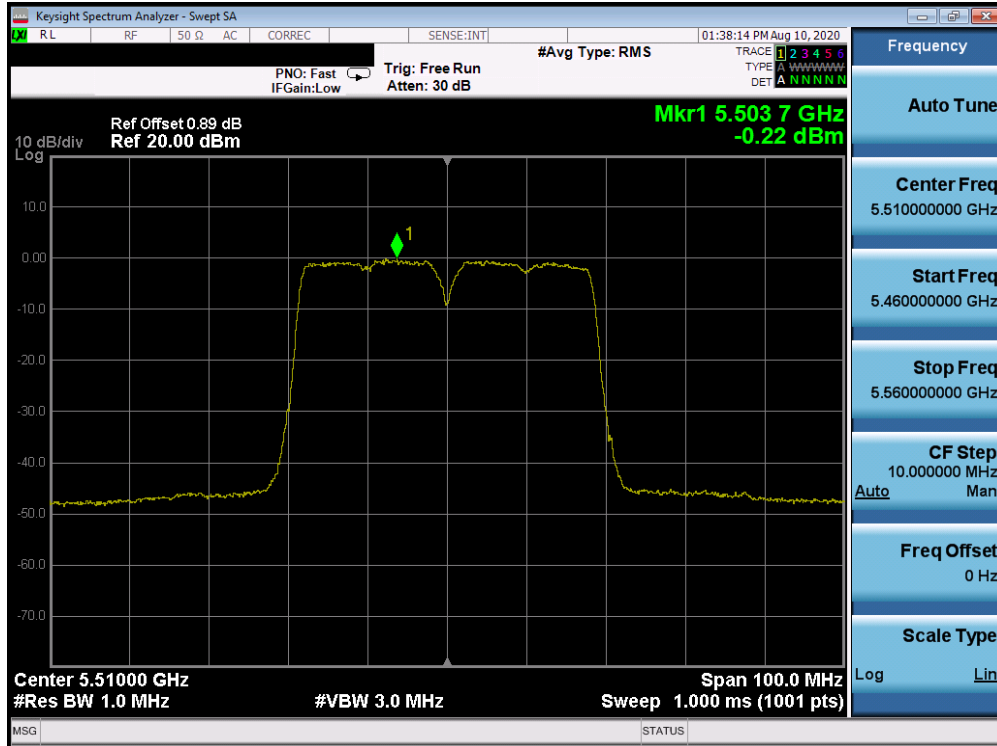


Plot 7-213. Power Spectral Density Plot CDD Primary Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 144

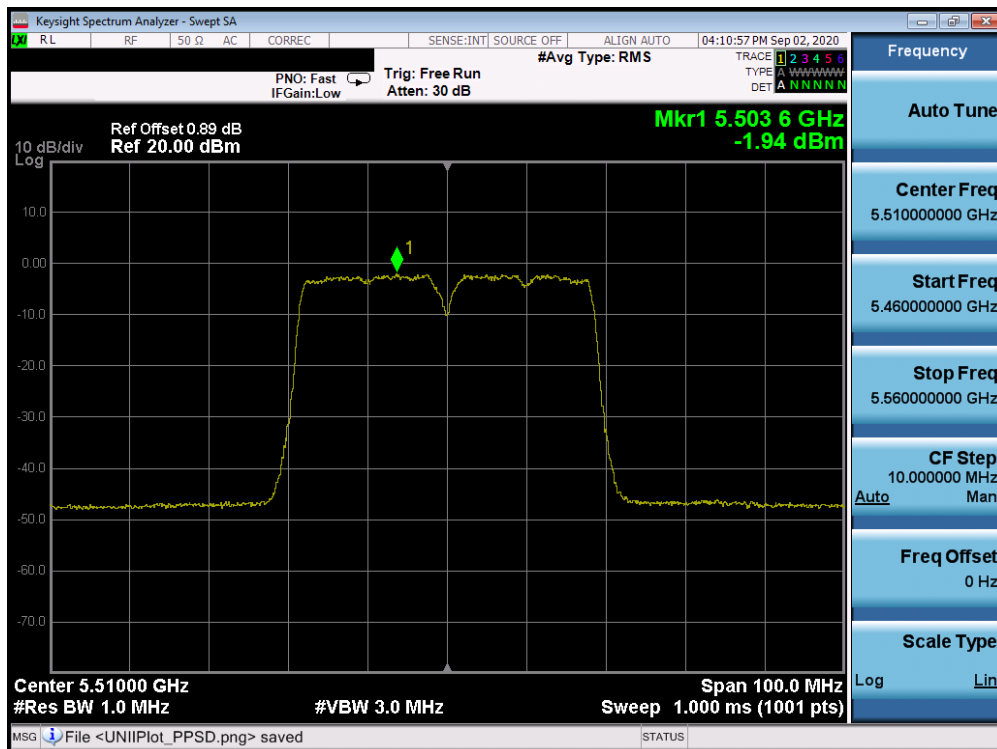


Plot 7-214. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 151 of 344

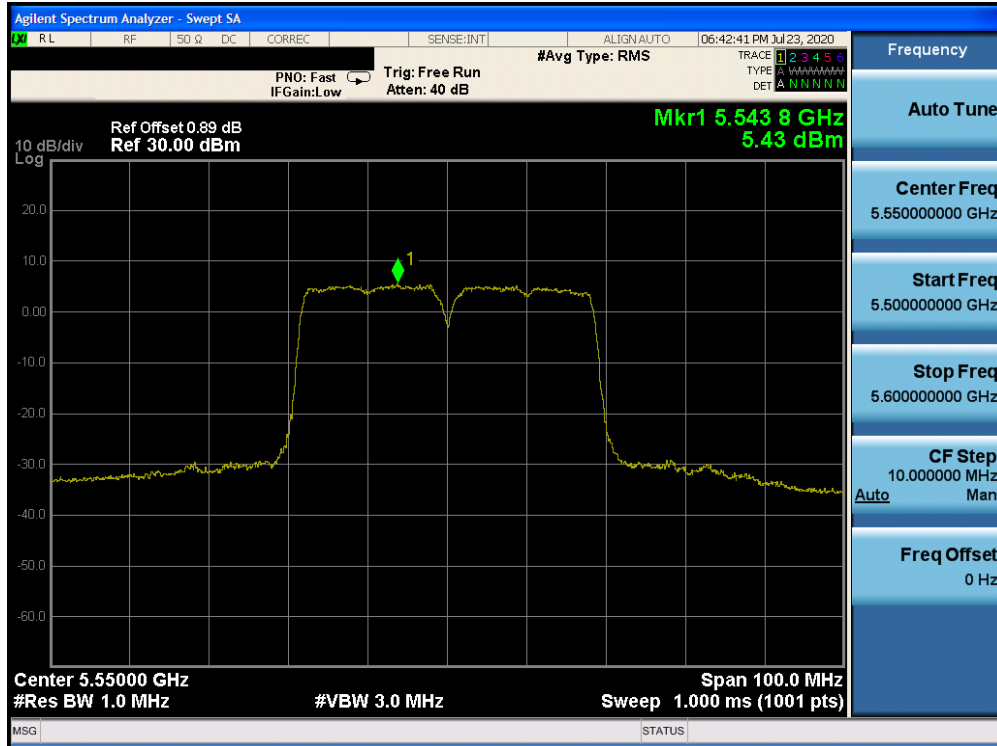


Plot 7-215. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

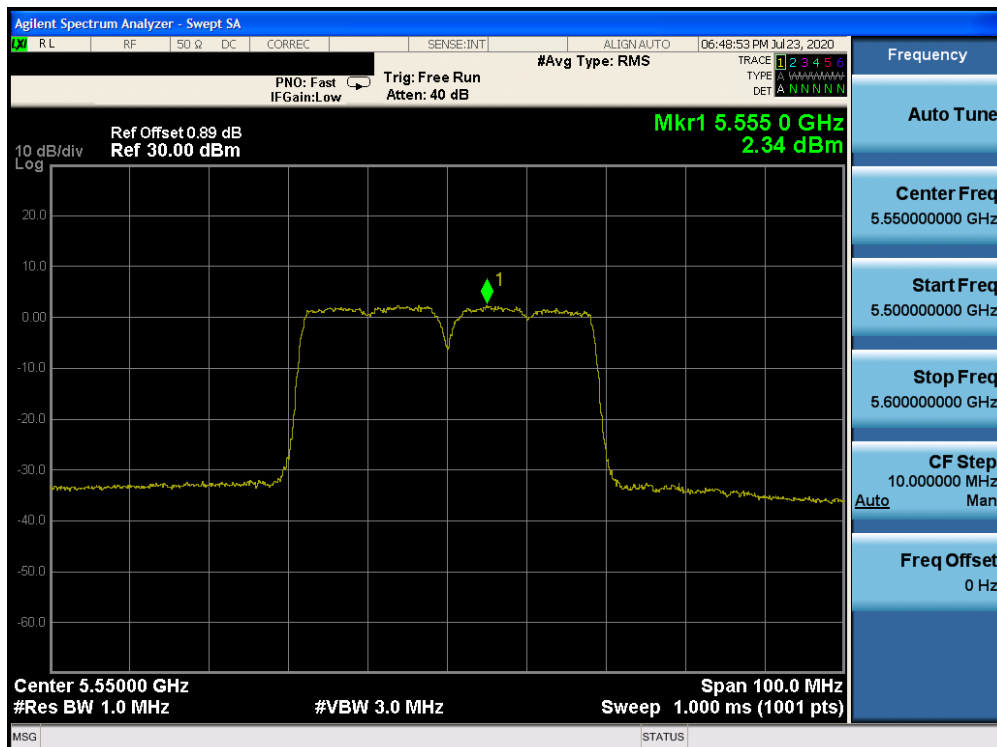


Plot 7-216. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 152 of 344

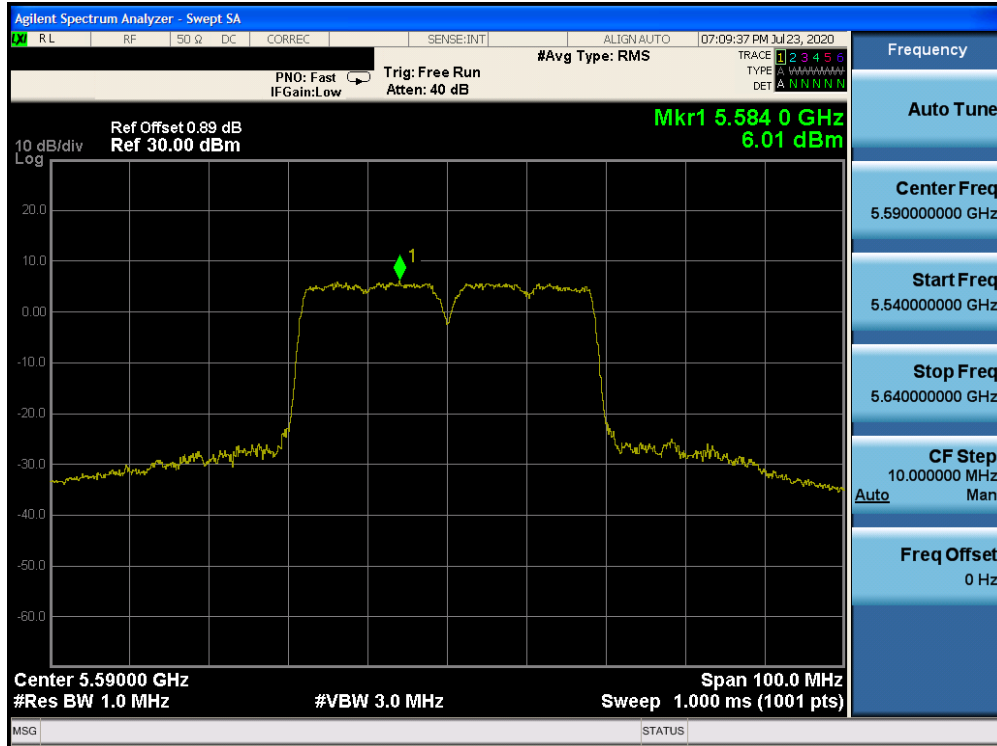


Plot 7-217. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

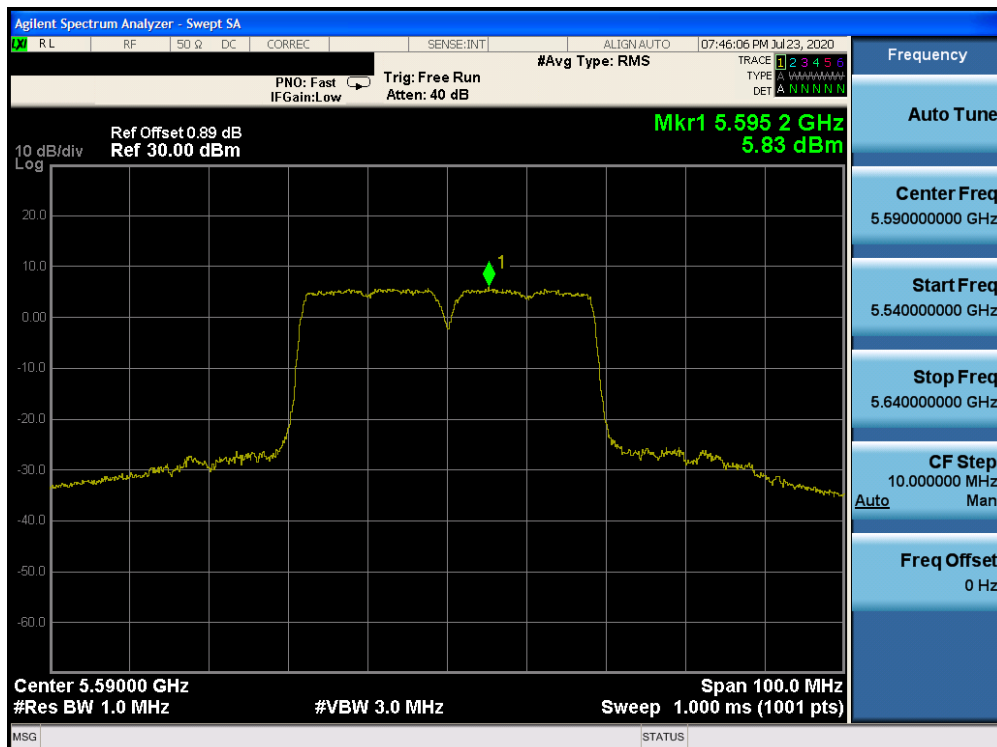


Plot 7-218. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 153 of 344

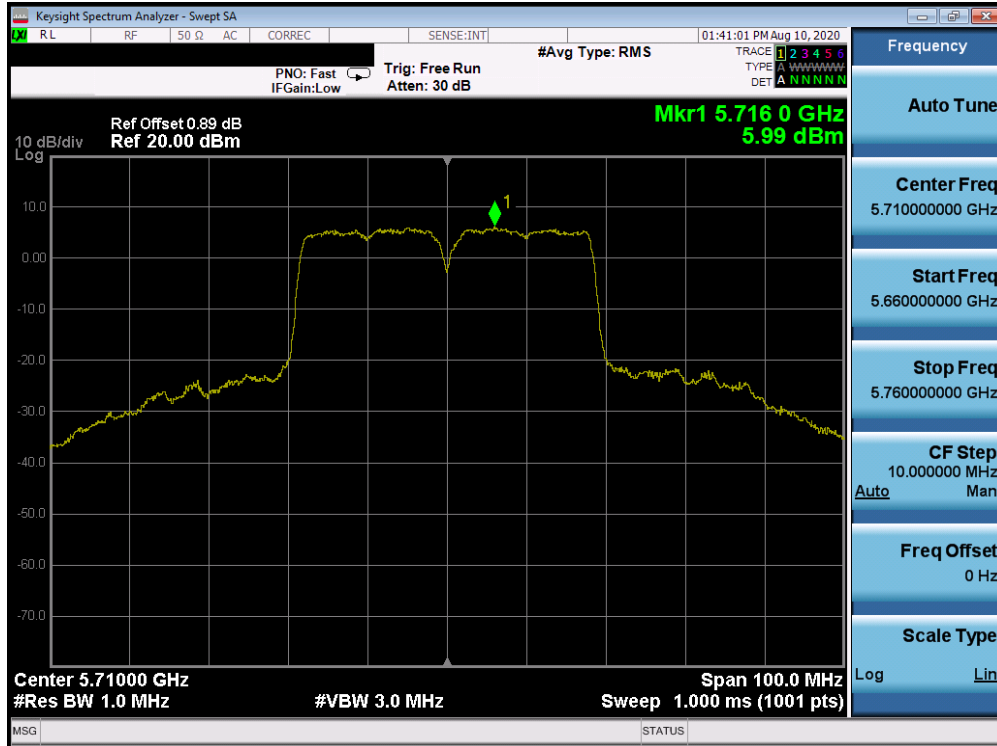


Plot 7-219. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

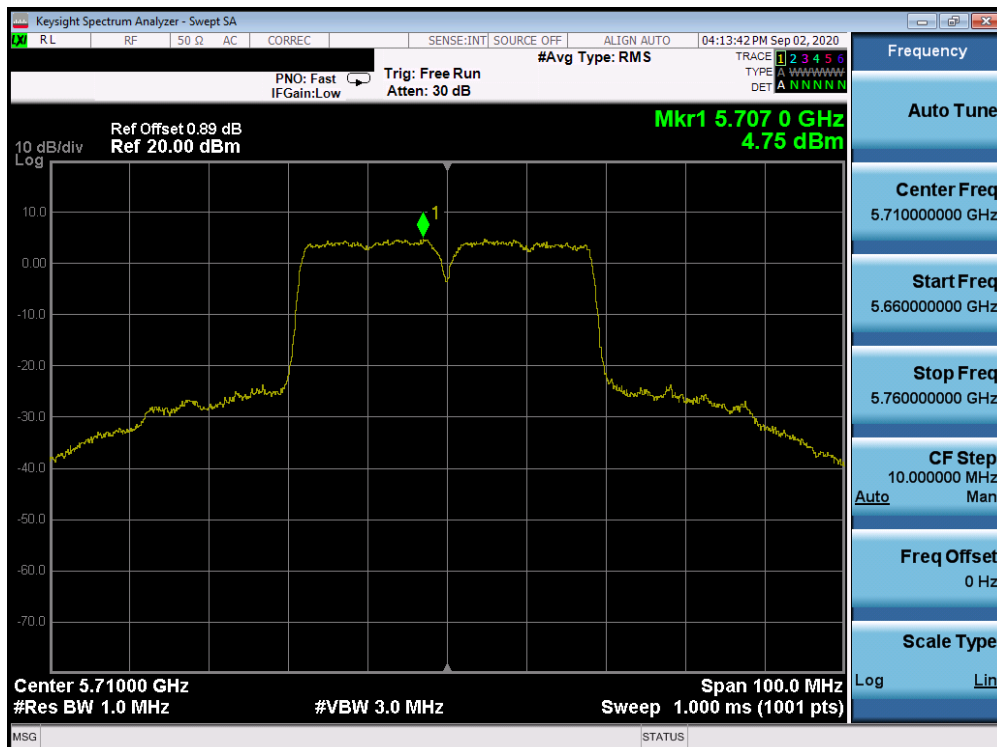


Plot 7-220. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 154 of 344



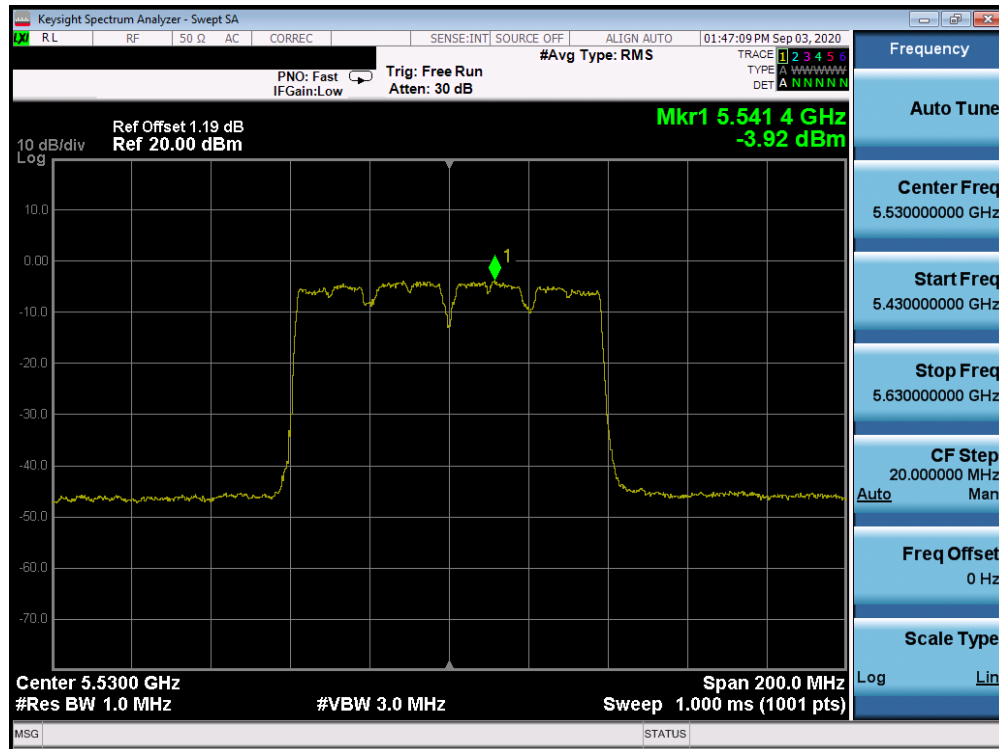
Plot 7-221. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)



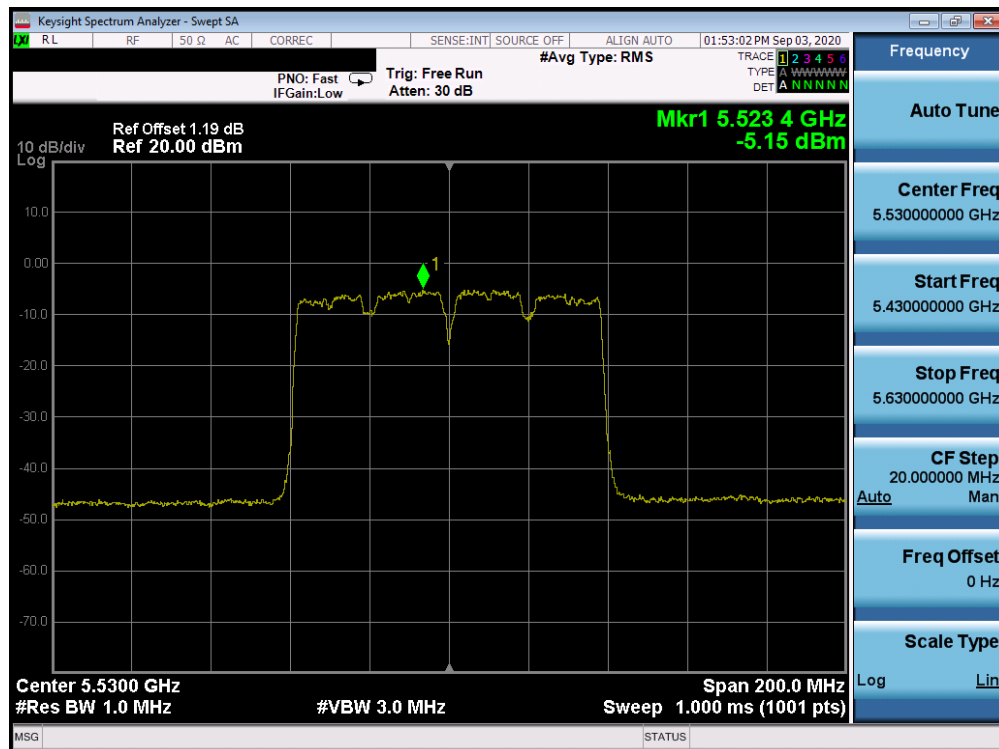
Plot 7-222. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 155 of 344



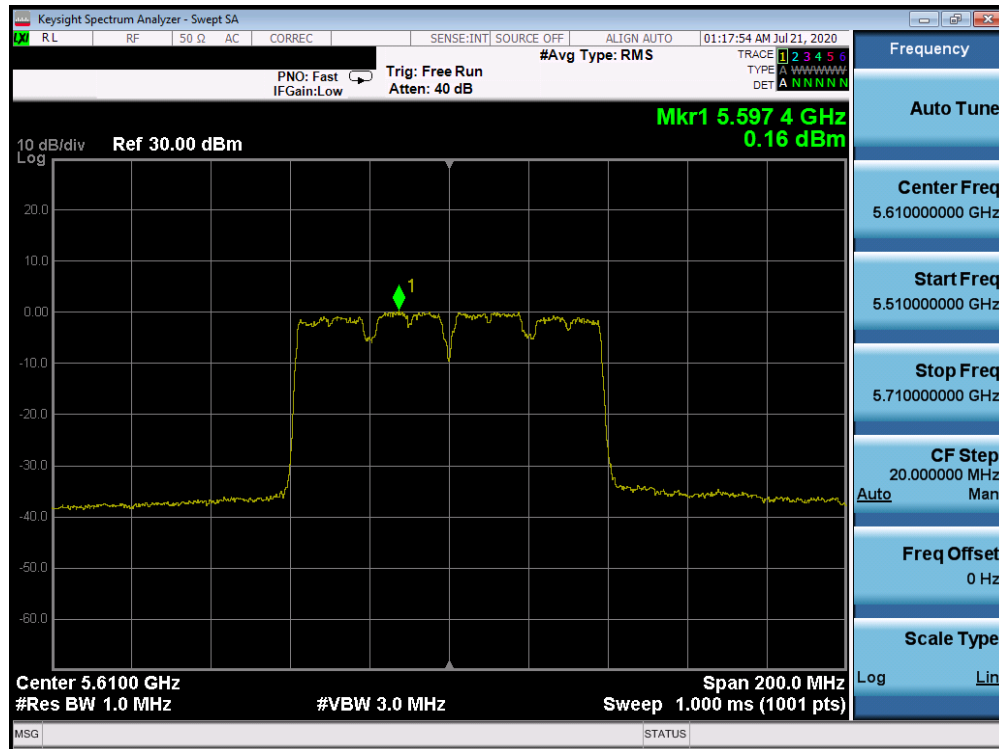


Plot 7-223. Power Spectral Density Plot CDD Primary Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

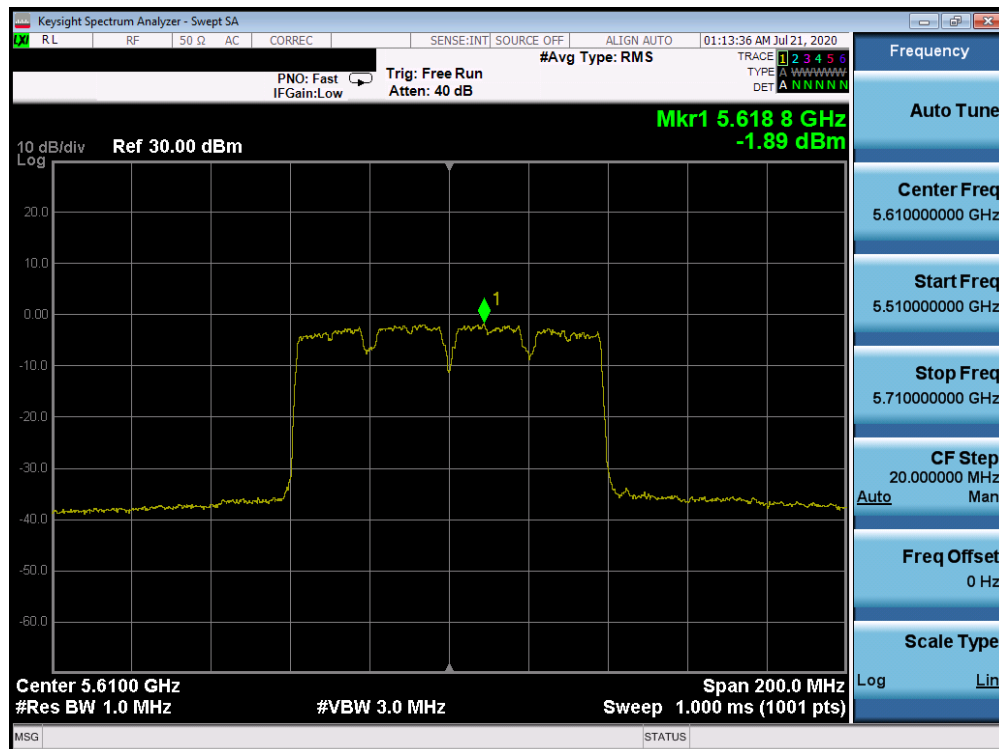


Plot 7-224. Power Spectral Density Plot CDD Primary Antenna 2a (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 156 of 344

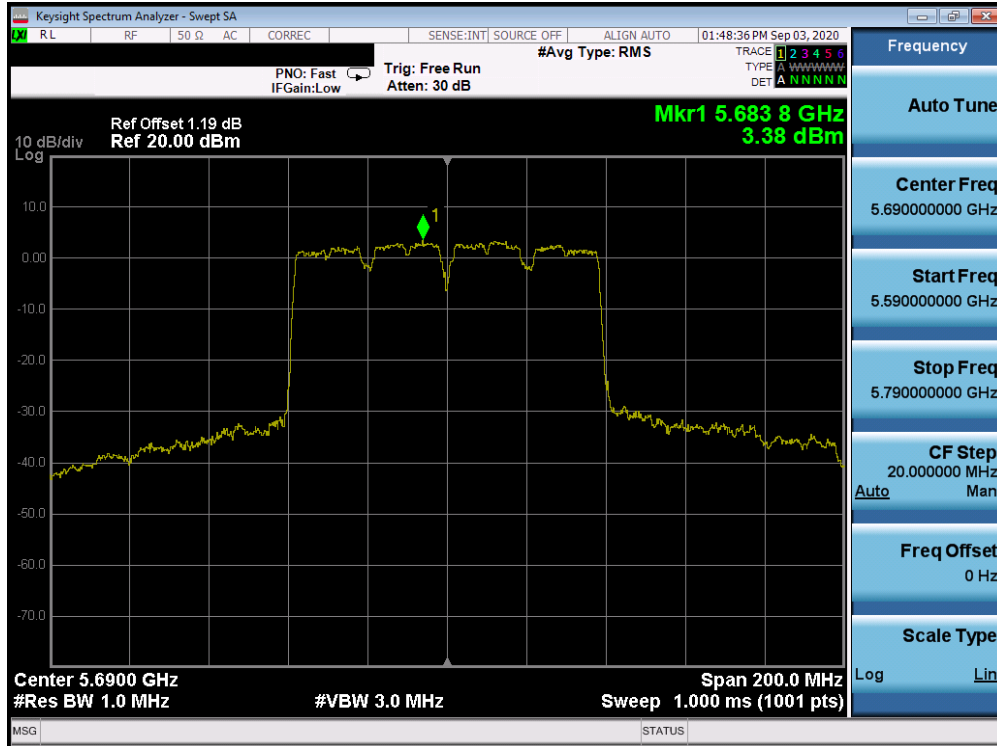


Plot 7-225. Power Spectral Density Plot CDD Primary Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

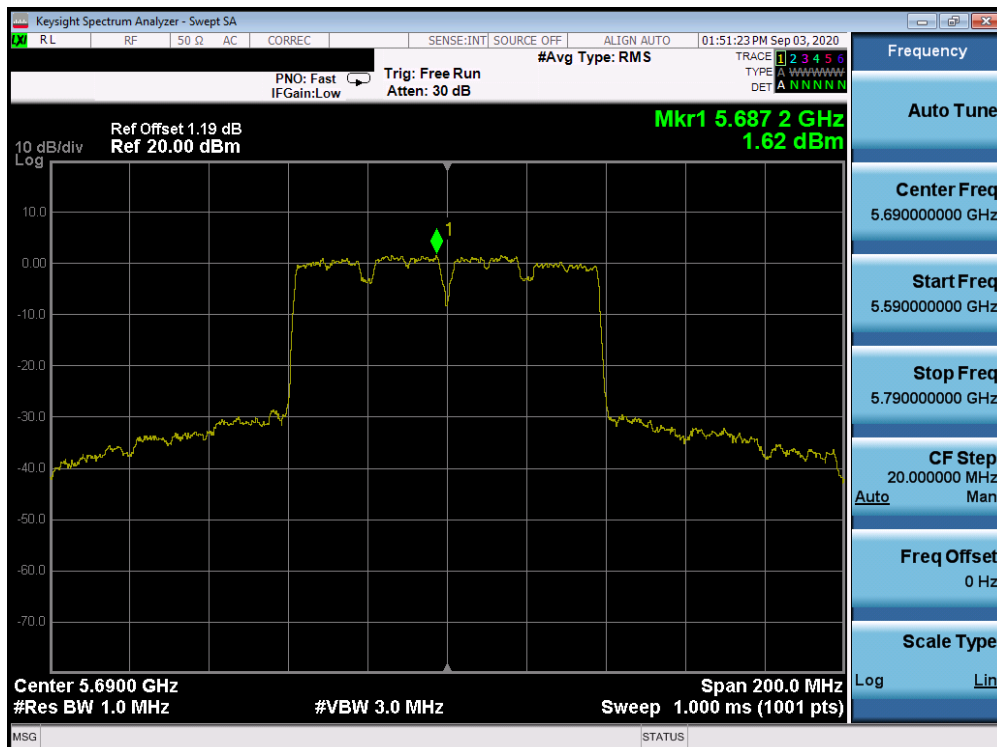


Plot 7-226. Power Spectral Density Plot CDD Primary Antenna 2a (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 157 of 344



Plot 7-227. Power Spectral Density Plot CDD Primary Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)



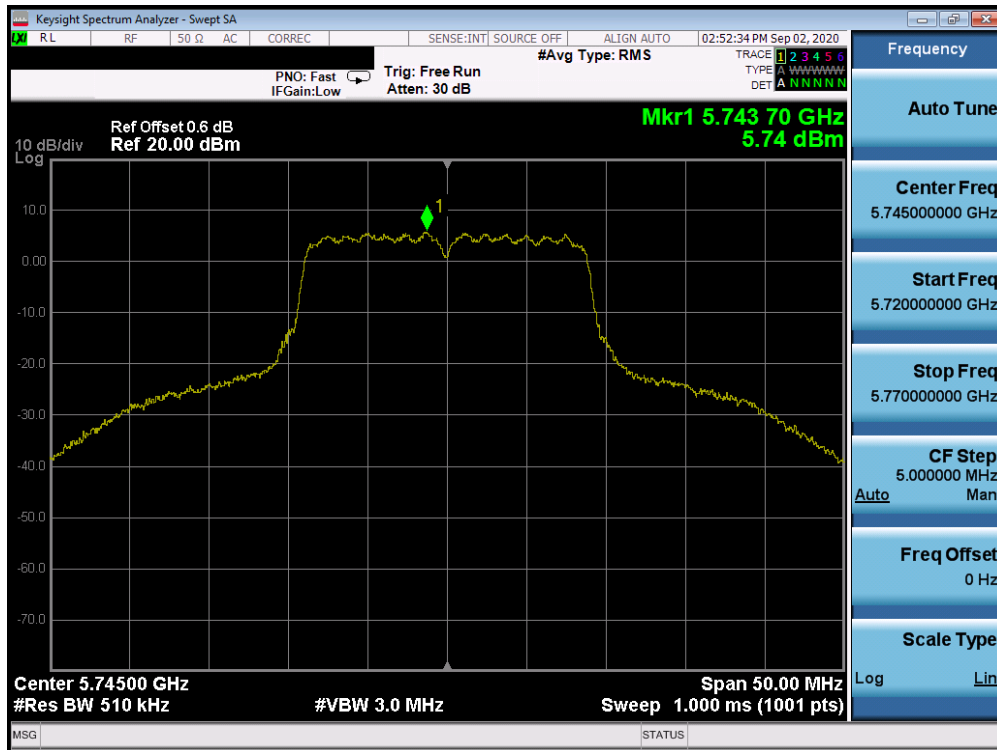
Plot 7-228. Power Spectral Density Plot CDD Primary Antenna 2a (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 158 of 344

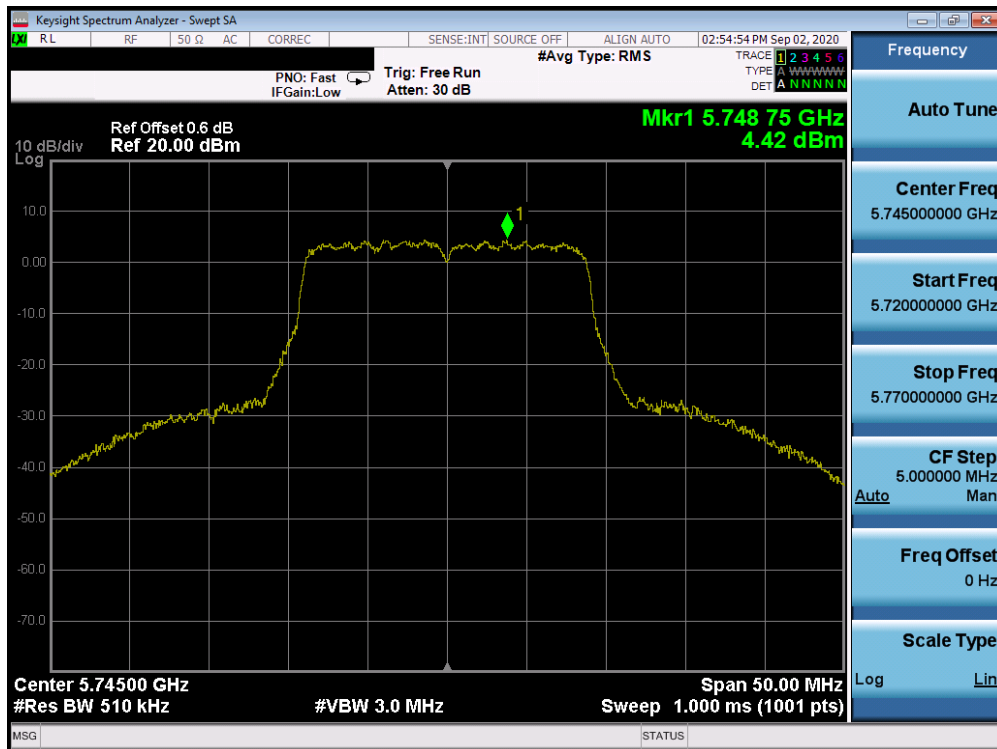
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 2b Power Density [dBm/500kHz]	Antenna 2a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	130/144.4 (MCS15)	5.74	4.42	8.14	30.0	-21.86
	5785	157	n (20MHz)	130/144.4 (MCS15)	5.96	4.38	8.25	30.0	-21.75
	5825	165	n (20MHz)	130/144.4 (MCS15)	5.69	4.91	8.33	30.0	-21.67
	5755	151	n (40MHz)	270/300 (MCS15)	4.52	3.13	6.89	30.0	-23.11
	5795	159	n (40MHz)	270/300 (MCS15)	4.36	3.21	6.83	30.0	-23.17
	5775	155	ac (80MHz)	780/866.7 (MCS9)	-0.20	-1.49	2.21	30.0	-27.79

**Table 7-53. Band 3 CDD Primary Power Spectral Density Measurements**

FCC ID: BCGA2072	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 159 of 344

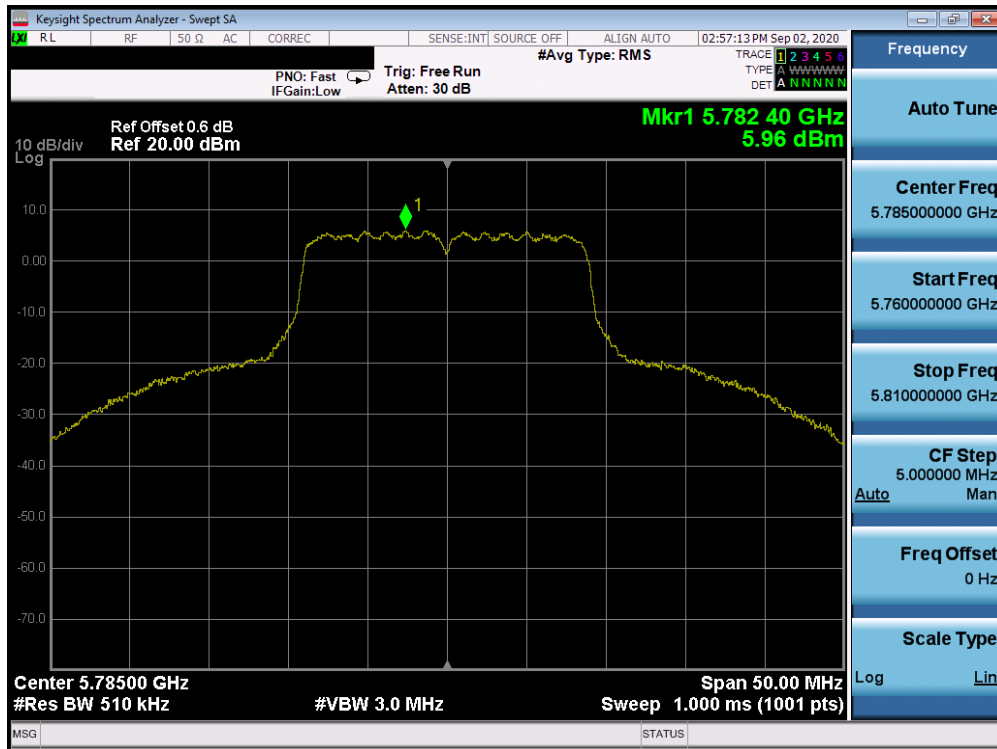


Plot 7-229. Power Spectral Density Plot CDD Primary Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

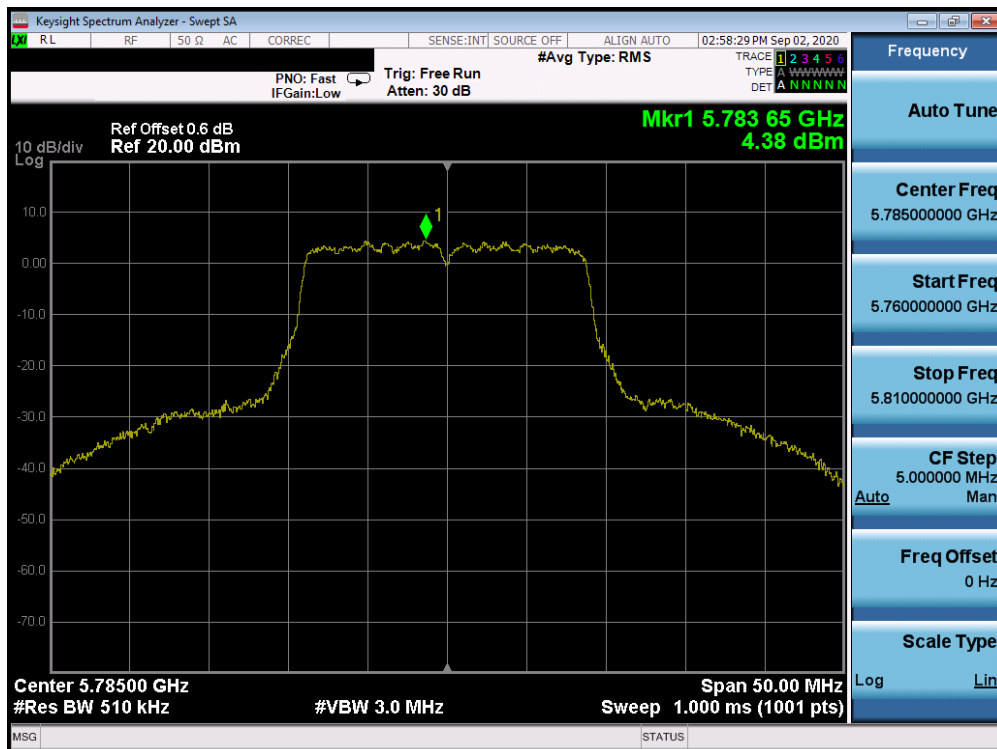


Plot 7-230. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 160 of 344

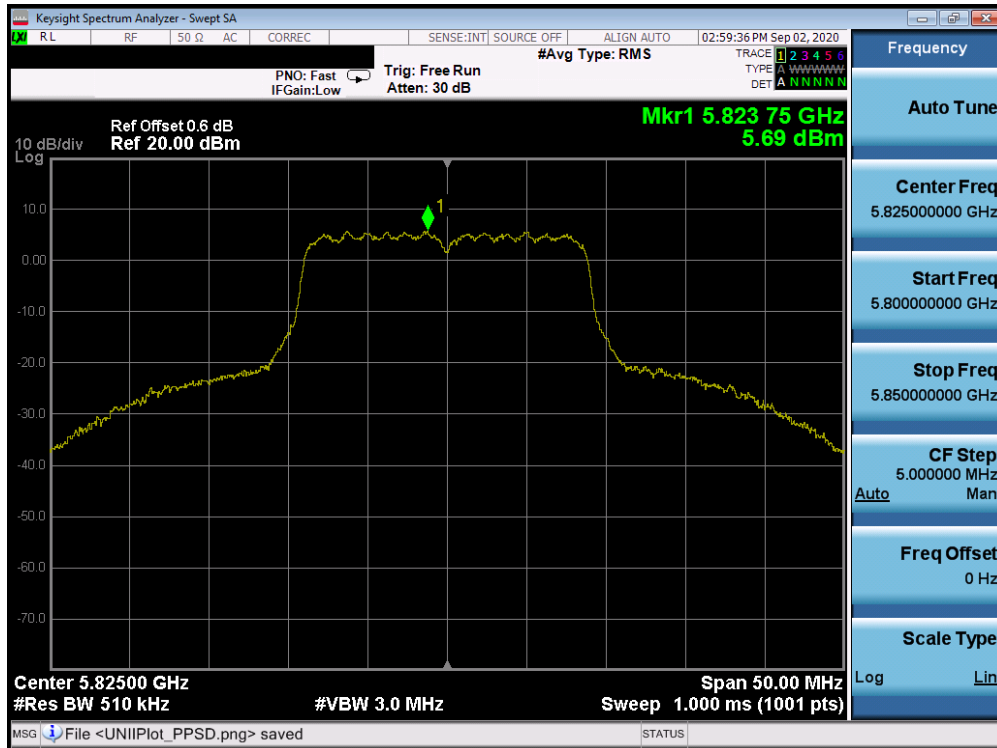


Plot 7-231. Power Spectral Density Plot CDD Primary Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

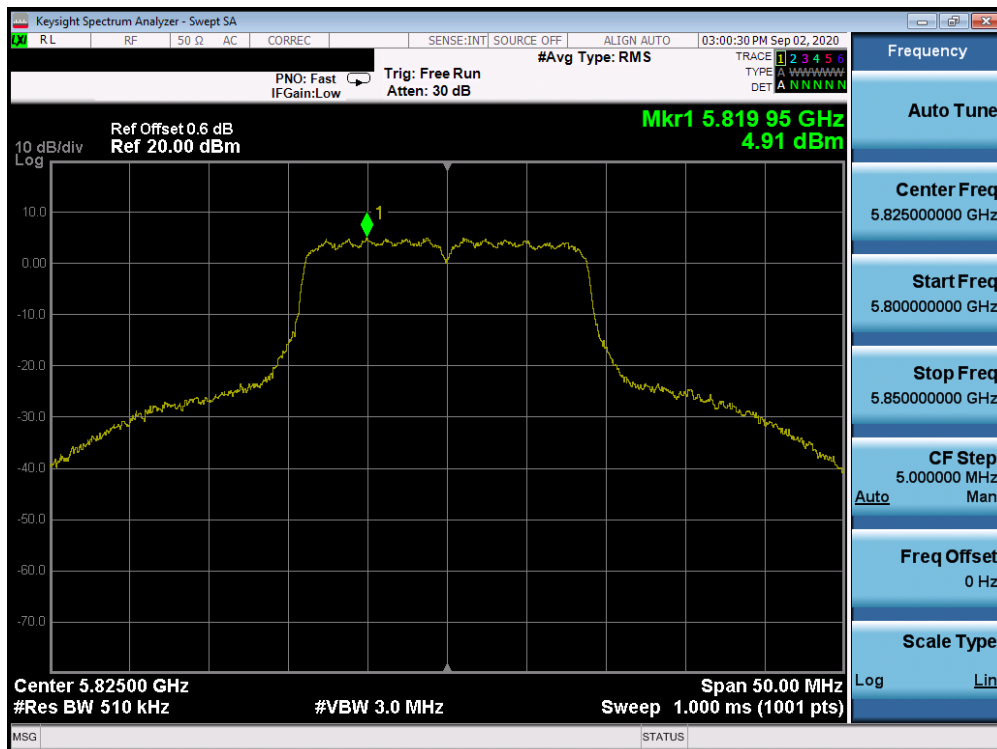


Plot 7-232. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 161 of 344

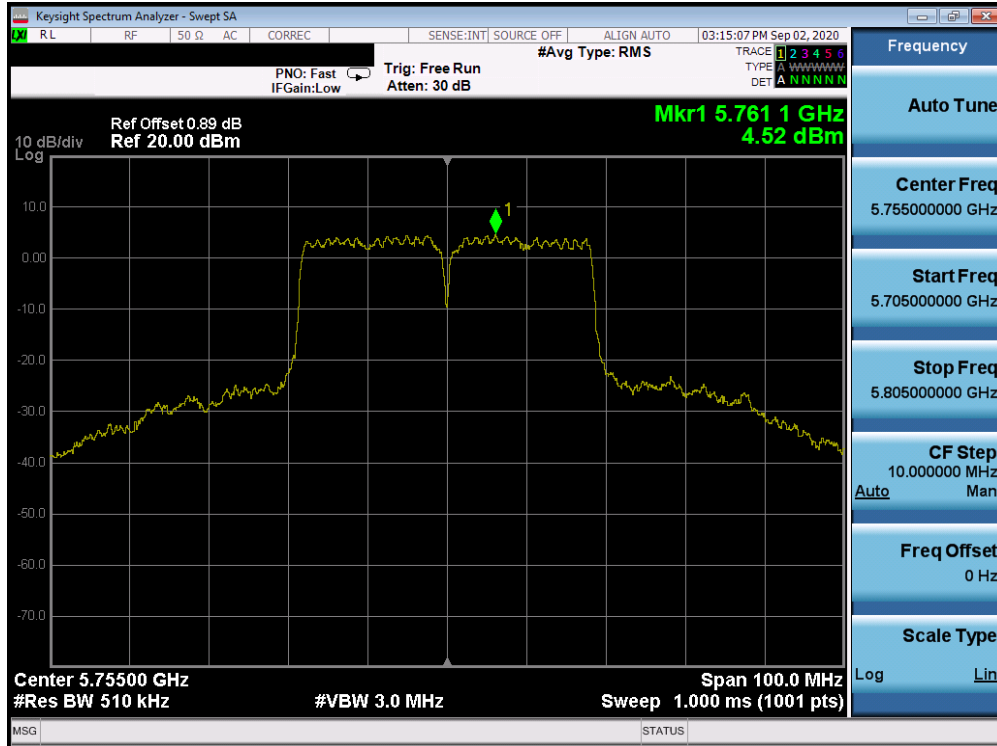


Plot 7-233. Power Spectral Density Plot CDD Primary Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

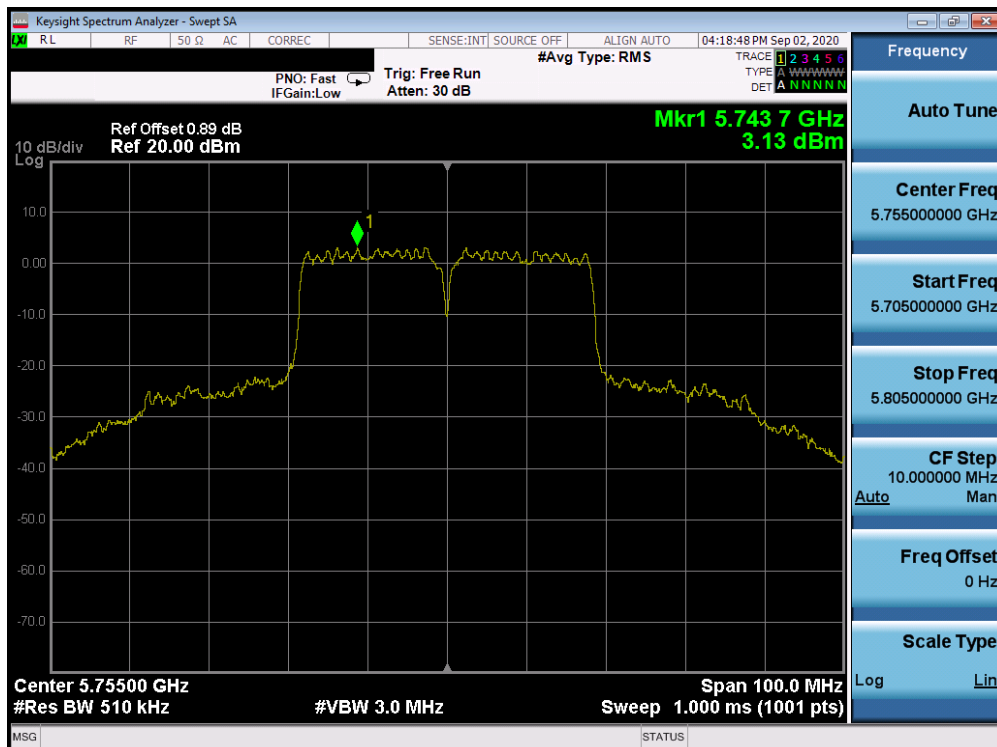


Plot 7-234. Power Spectral Density Plot CDD Primary Antenna 2a (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 162 of 344



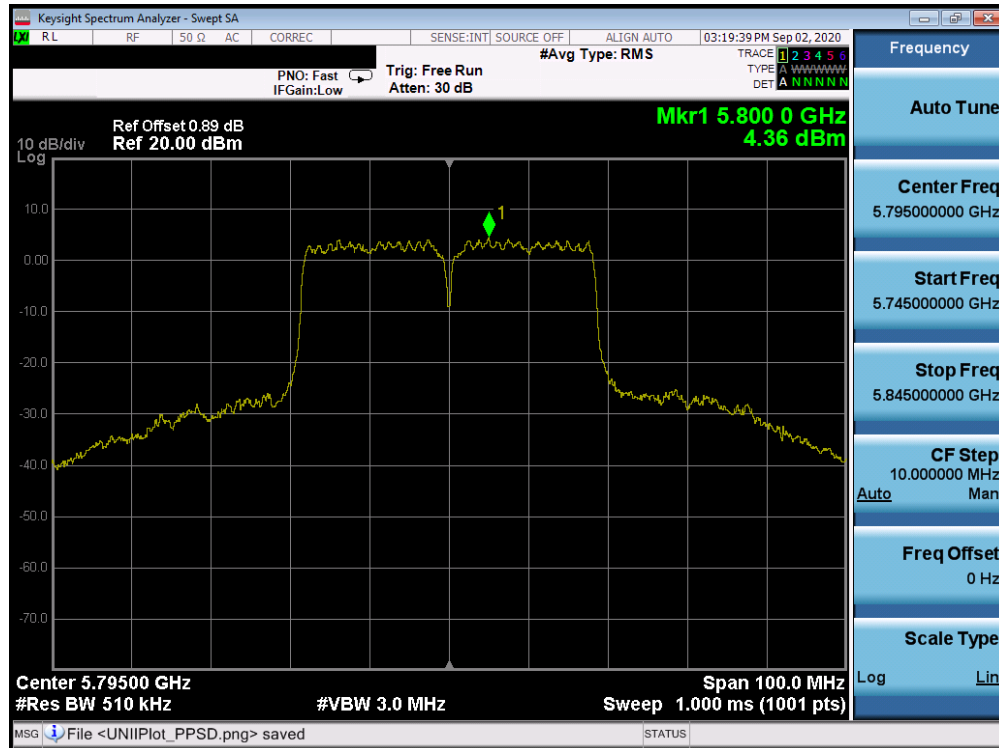
Plot 7-235. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



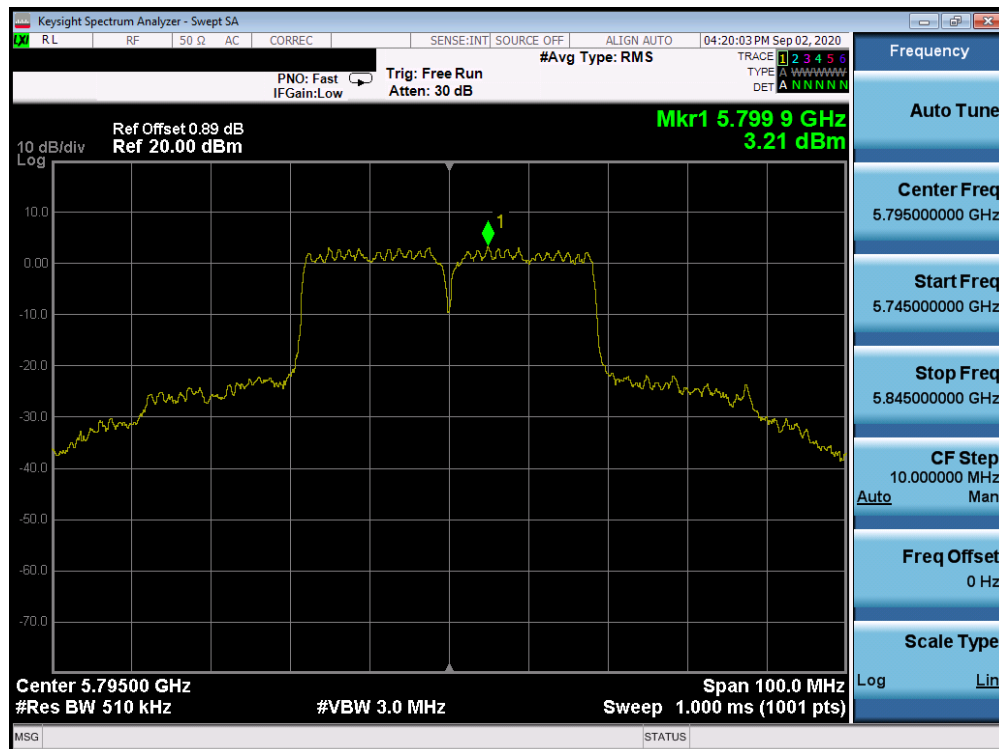
Plot 7-236. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 163 of 344



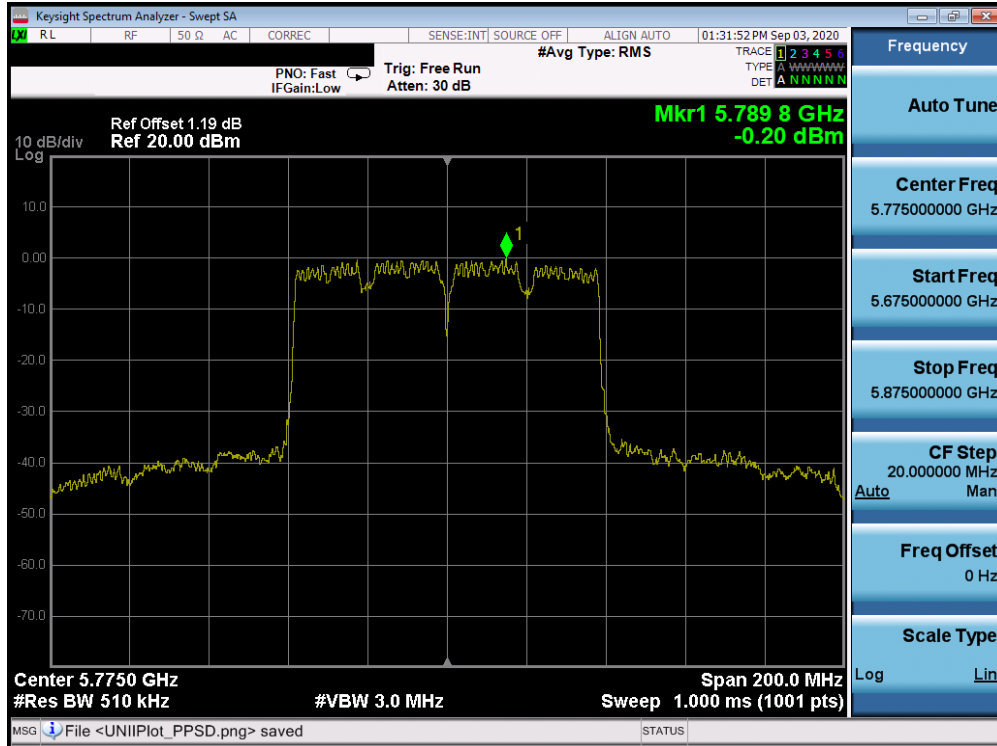


Plot 7-237. Power Spectral Density Plot CDD Primary Antenna 2b (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

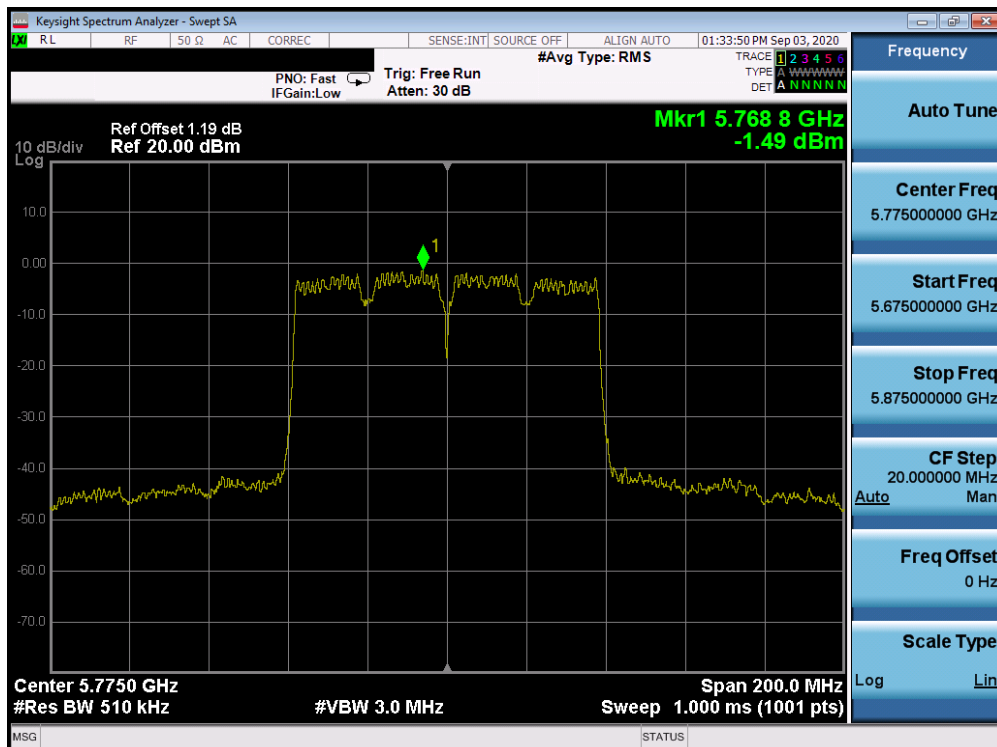


Plot 7-238. Power Spectral Density Plot CDD Primary Antenna 2a (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 164 of 344



Plot 7-239. Power Spectral Density Plot CDD Primary Antenna 2b (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-240. Power Spectral Density Plot CDD Primary Antenna 2a (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 165 of 344

## Summed CDD/SDM Diversity Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 2b Power Density [dBm/MHz]	Antenna 1b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	130/144.4 (MCS15)	5.88	5.70	8.80	11.0	-2.20
	5200	40	n (20MHz)	130/144.4 (MCS15)	6.18	6.40	9.30	11.0	-1.70
	5240	48	n (20MHz)	130/144.4 (MCS15)	6.21	6.31	9.27	11.0	-1.73
	5190	38	n (40MHz)	270/300 (MCS15)	-0.18	-0.42	2.71	11.0	-8.29
	5230	46	n (40MHz)	270/300 (MCS15)	5.25	5.32	8.30	11.0	-2.70
	5210	42	ac (80MHz)	780/866.7 (MCS9)	-3.56	-3.15	-0.34	11.0	-11.34
Band 2A	5260	52	n (20MHz)	130/144.4 (MCS15)	6.23	6.17	9.21	11.0	-1.79
	5280	56	n (20MHz)	130/144.4 (MCS15)	6.44	6.35	9.41	11.0	-1.59
	5320	64	n (20MHz)	130/144.4 (MCS15)	6.26	5.67	8.99	11.0	-2.01
	5270	54	n (40MHz)	270/300 (MCS15)	6.40	5.95	9.19	11.0	-1.81
	5310	62	n (40MHz)	270/300 (MCS15)	-0.74	0.38	2.87	11.0	-8.13
	5290	58	ac (80MHz)	780/866.7 (MCS9)	-3.95	-4.07	-1.00	11.0	-12.00
Band 2C	5500	100	n (20MHz)	130/144.4 (MCS15)	5.56	5.33	8.46	11.0	-2.54
	5580	116	n (20MHz)	130/144.4 (MCS15)	5.97	5.84	8.92	11.0	-2.08
	5720	144	n (20MHz)	130/144.4 (MCS15)	5.63	5.57	8.61	11.0	-2.39
	5510	102	n (40MHz)	270/300 (MCS15)	-0.22	-0.13	2.84	11.0	-8.16
	5550	110	n (40MHz)	270/300 (MCS15)	5.43	4.89	8.18	11.0	-2.82
	*5590	118	n (40MHz)	270/300 (MCS15)	6.01	5.49	8.77	11.0	-2.23
	5710	142	n (40MHz)	270/300 (MCS15)	5.99	5.83	8.92	11.0	-2.08
	5530	106	ac (80MHz)	780/866.7 (MCS9)	-3.92	-4.00	-0.95	11.0	-11.95
	*5610	122	ac (80MHz)	780/866.7 (MCS9)	0.16	-0.35	2.92	11.0	-8.08
	5690	138	ac (80MHz)	780/866.7 (MCS9)	3.38	3.30	6.35	11.0	-4.65

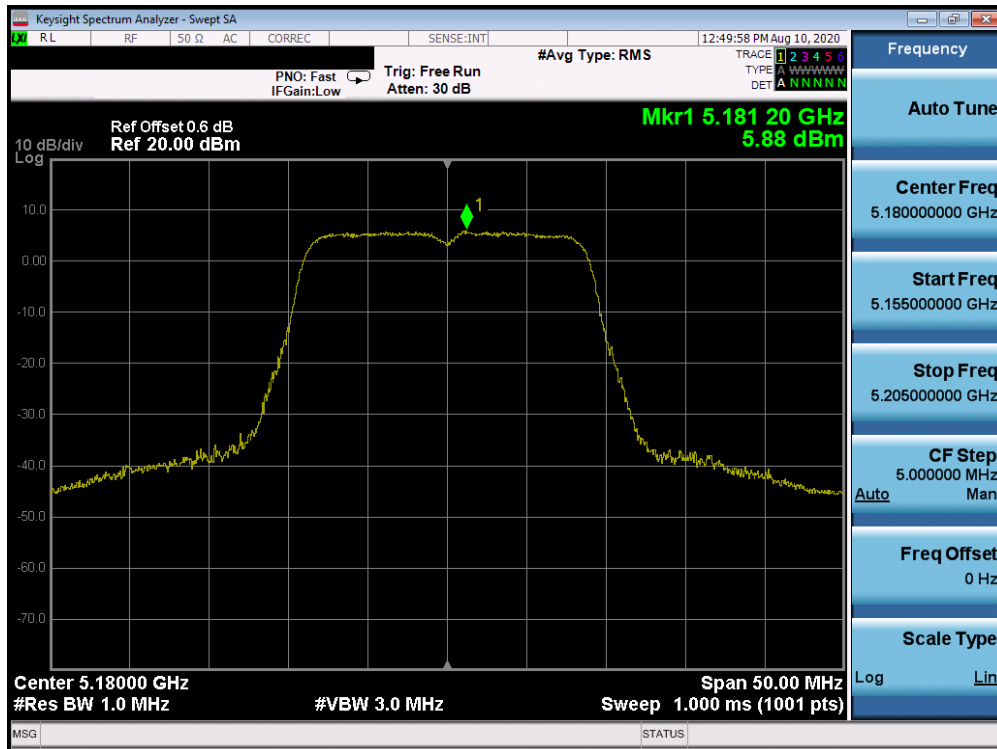
**Table 7-54. Bands 1, 2A, 2C CDD/SDM Diversity Power Spectral Density Measurements**

\*TDWR channel is not supported for ISSED (denoted by a \* next to the frequency)

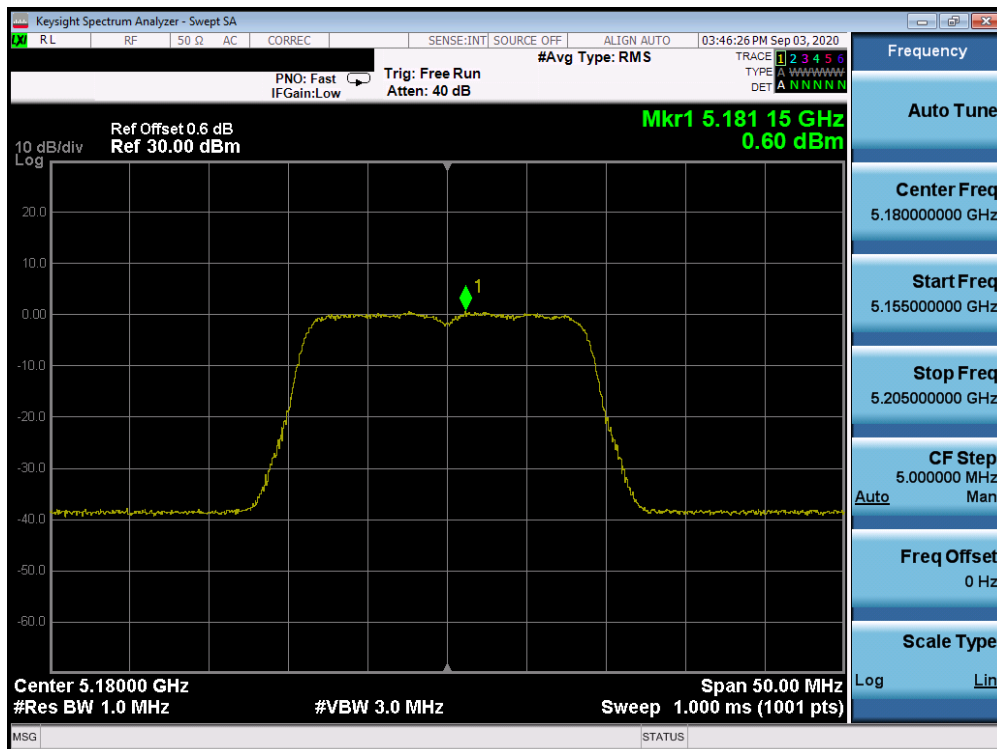
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 2b Power Density [dBm/MHz]	Antenna 1b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	130/144.4 (MCS15)	0.60	0.06	3.35	-0.63	2.72	10.0	-7.28
	5200	40	n (20MHz)	130/144.4 (MCS15)	0.35	0.20	3.29	-0.63	2.66	10.0	-7.34
	5240	48	n (20MHz)	130/144.4 (MCS15)	0.94	0.90	3.93	-0.63	3.30	10.0	-6.70
	5190	38	n (40MHz)	270/300 (MCS15)	-1.34	-1.56	1.56	-0.63	0.93	10.0	-9.07
	5230	46	n (40MHz)	270/300 (MCS15)	-1.01	-1.39	1.81	-0.63	1.19	10.0	-8.81
	5210	42	ac (80MHz)	780/866.7 (MCS9)	-3.56	-3.15	-0.34	2.37	2.03	10.0	-7.97

**Table 7-55. Band 1 CDD/SDM Diversity e.i.r.p. Power Spectral Density Measurements (ISED)**

FCC ID: BCGA2072	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 166 of 344

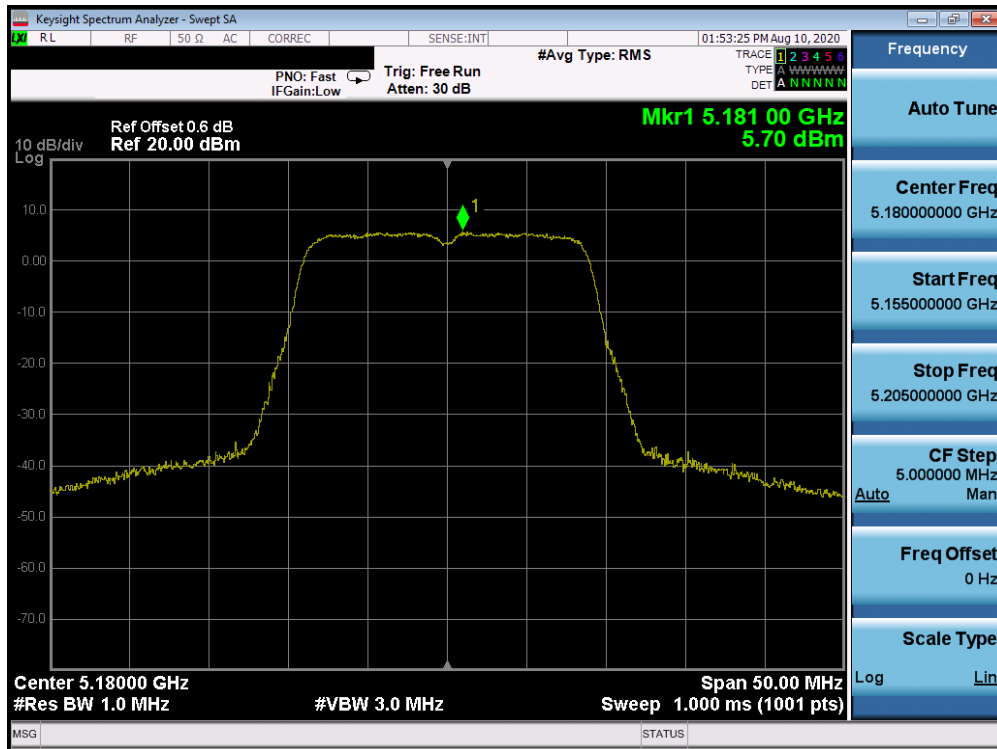


Plot 7-241. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

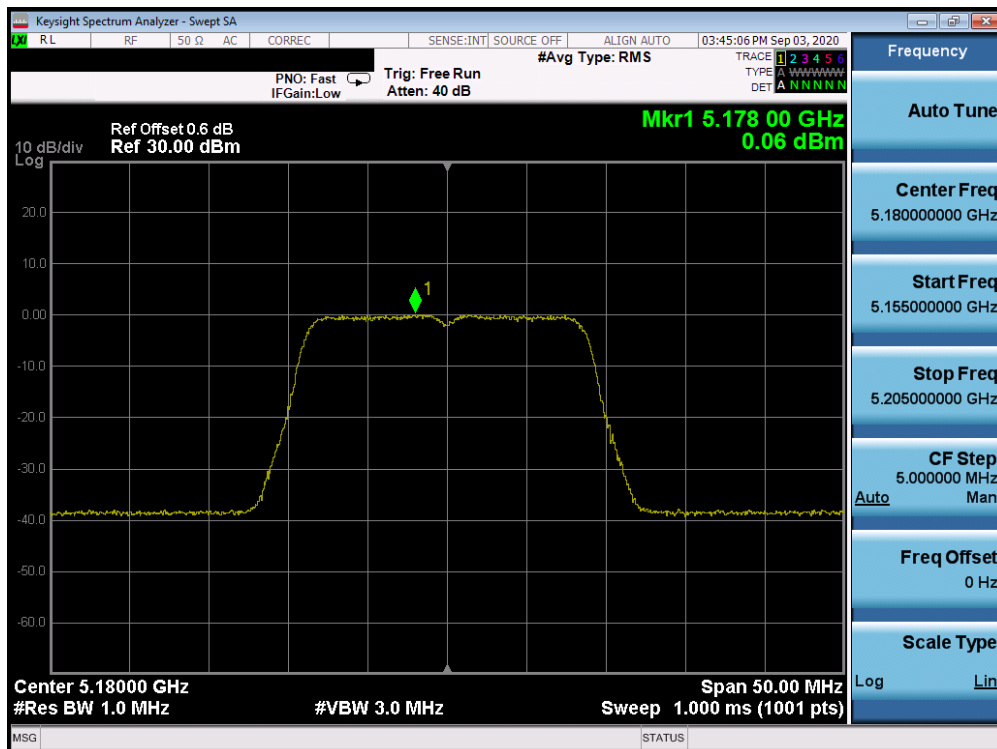


Plot 7-242. ISD Power Spectral Density Plot SDM Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 167 of 344

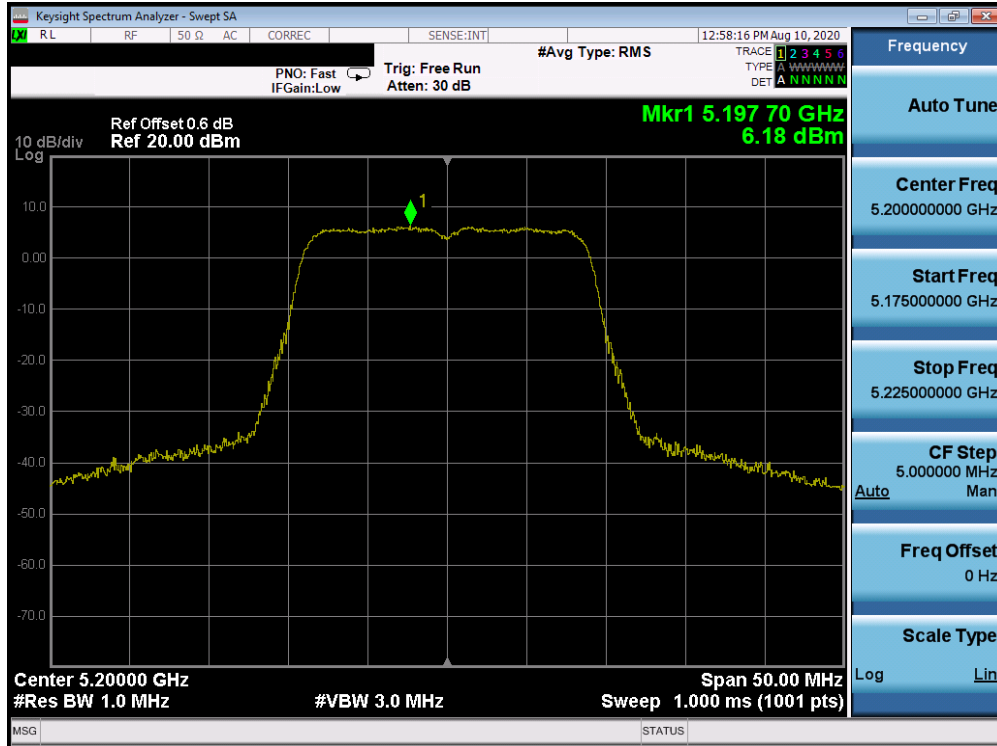


Plot 7-243. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

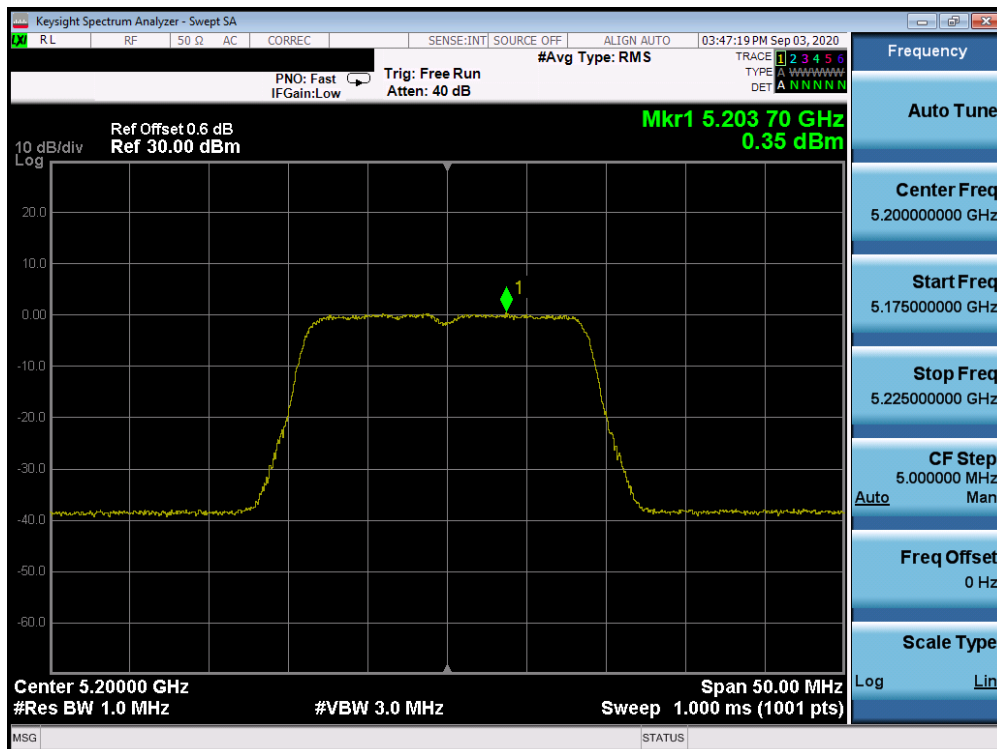


Plot 7-244. ISD Power Spectral Density Plot SDM Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 168 of 344

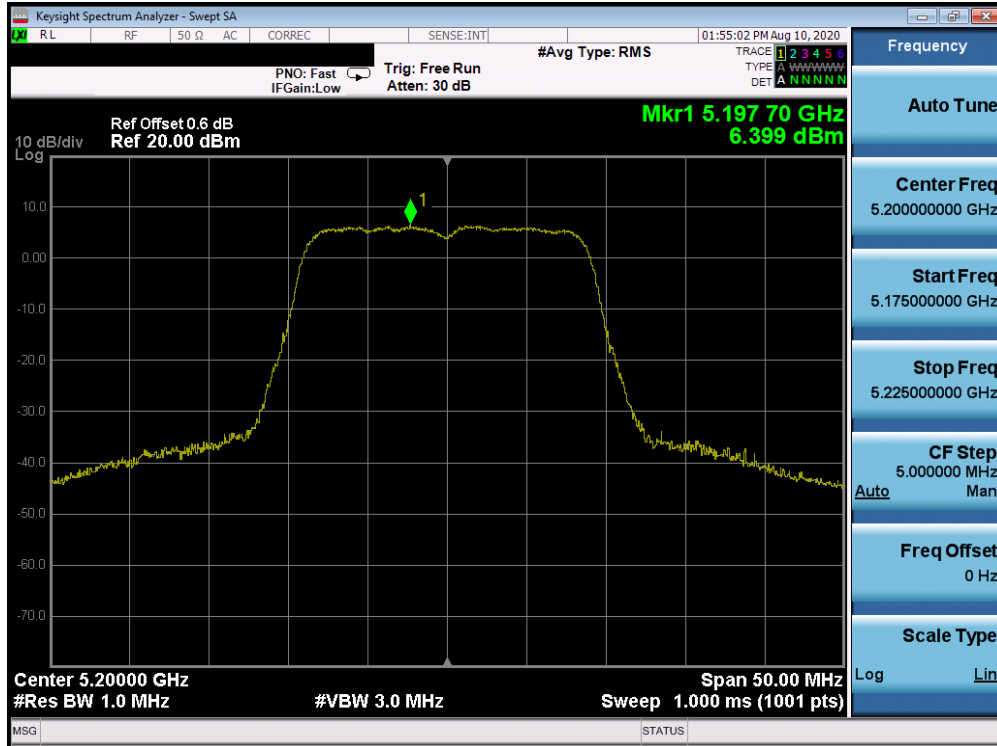


Plot 7-245. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

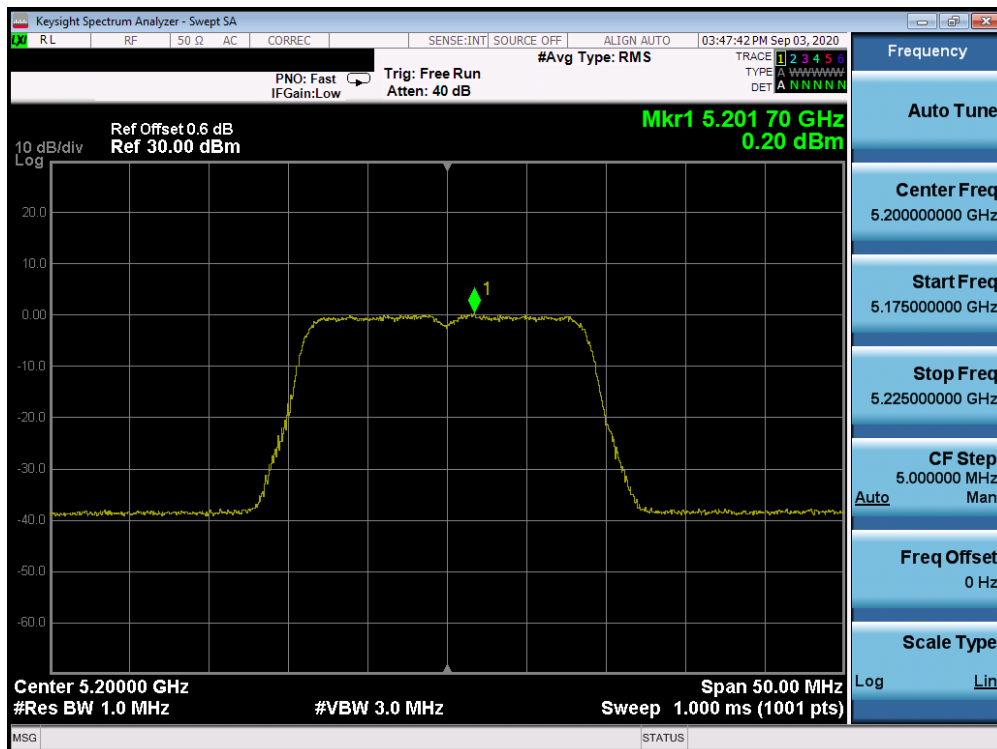


Plot 7-246. ISD Power Spectral Density Plot SDM Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 169 of 344



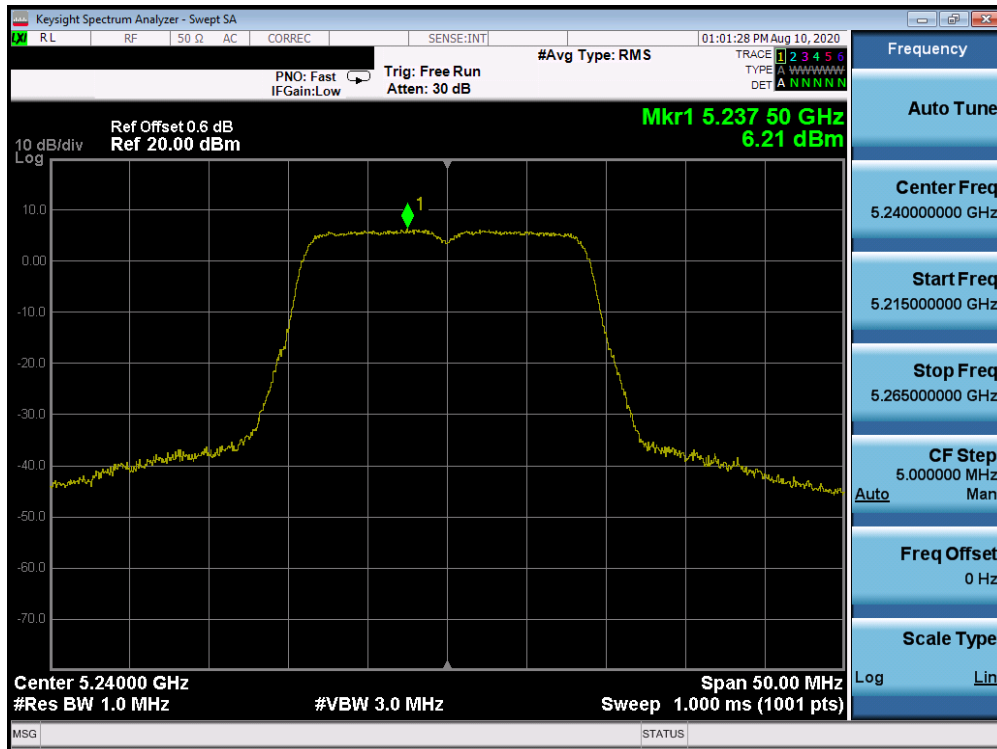
Plot 7-247. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 40)



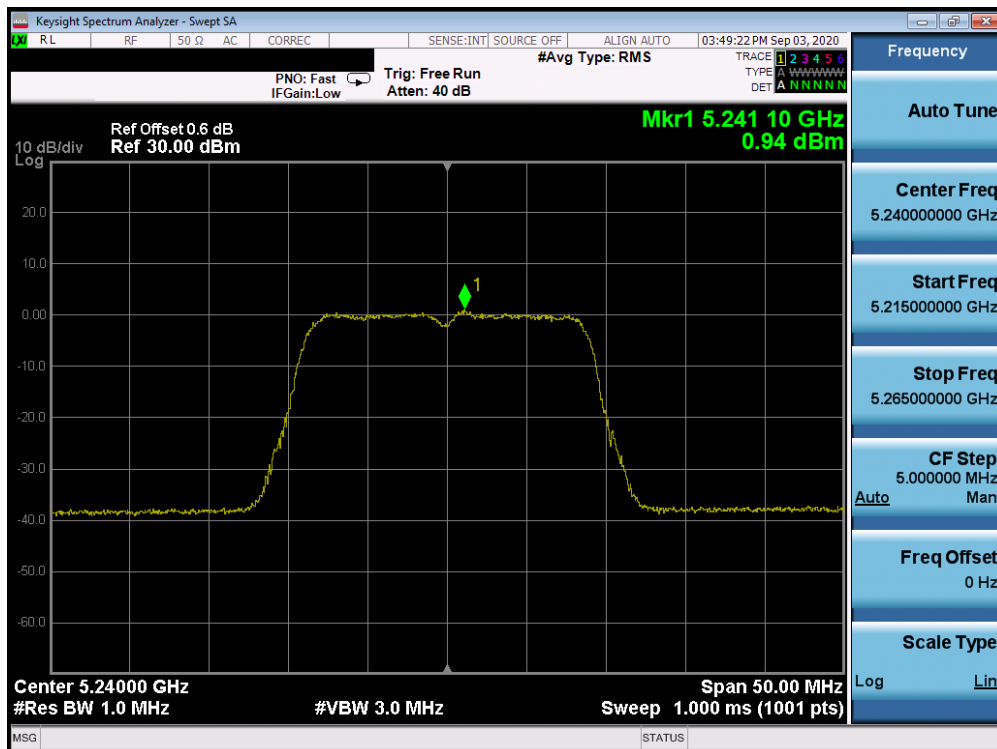
Plot 7-248. ISD Power Spectral Density Plot SDM Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 170 of 344





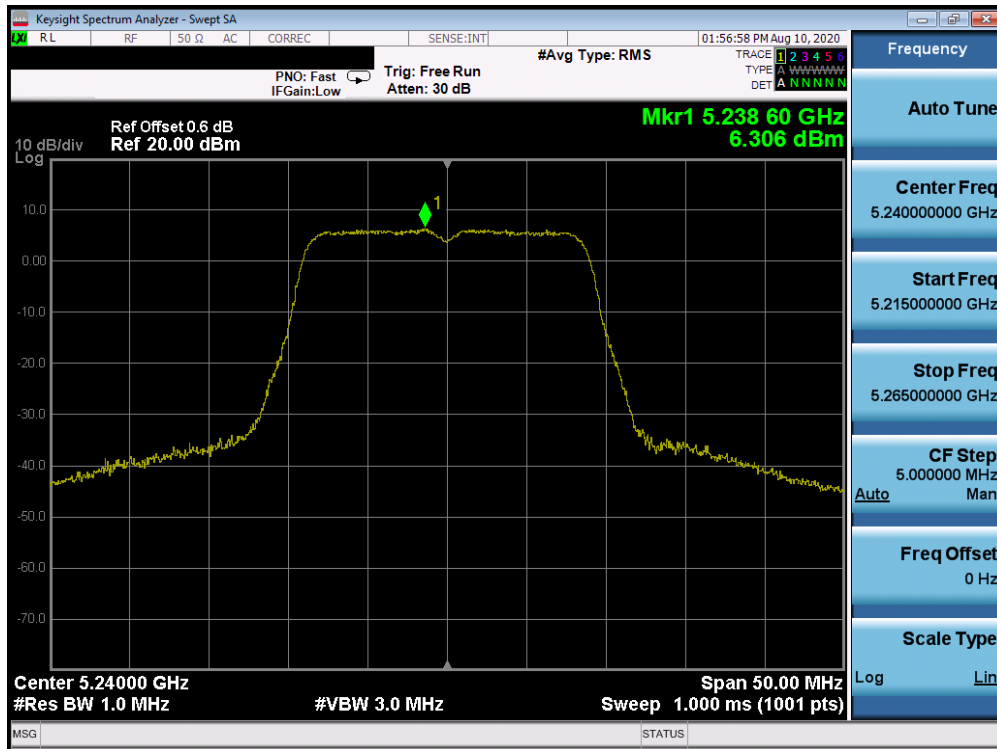
Plot 7-249. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 48)



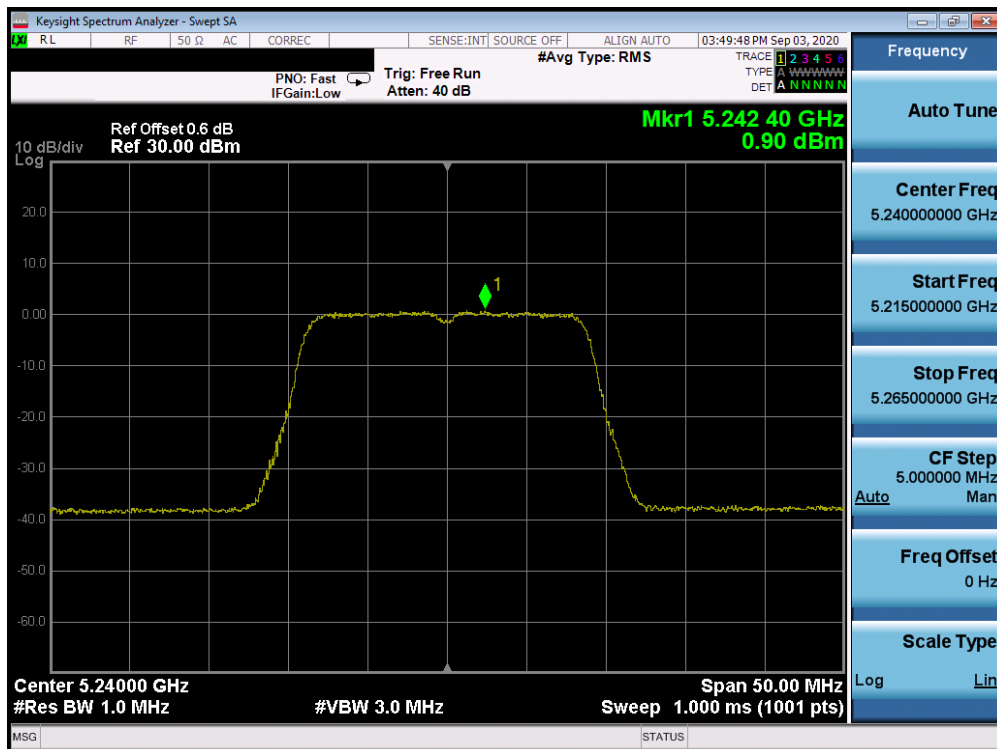
Plot 7-250. ISED Power Spectral Density Plot SDM Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 171 of 344



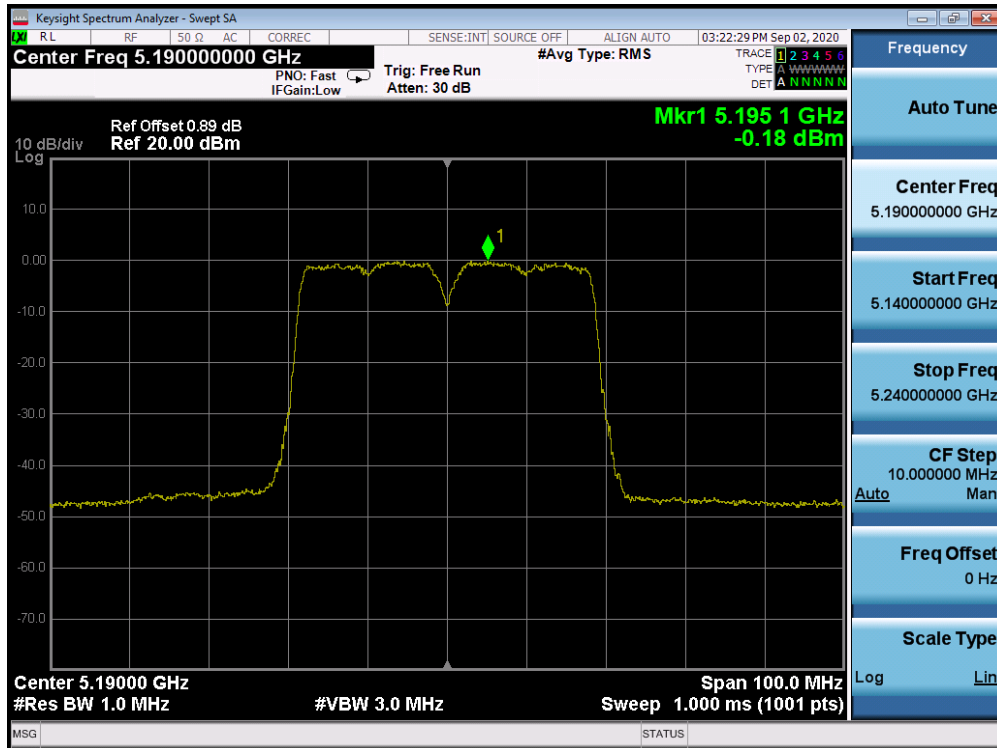


Plot 7-251. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

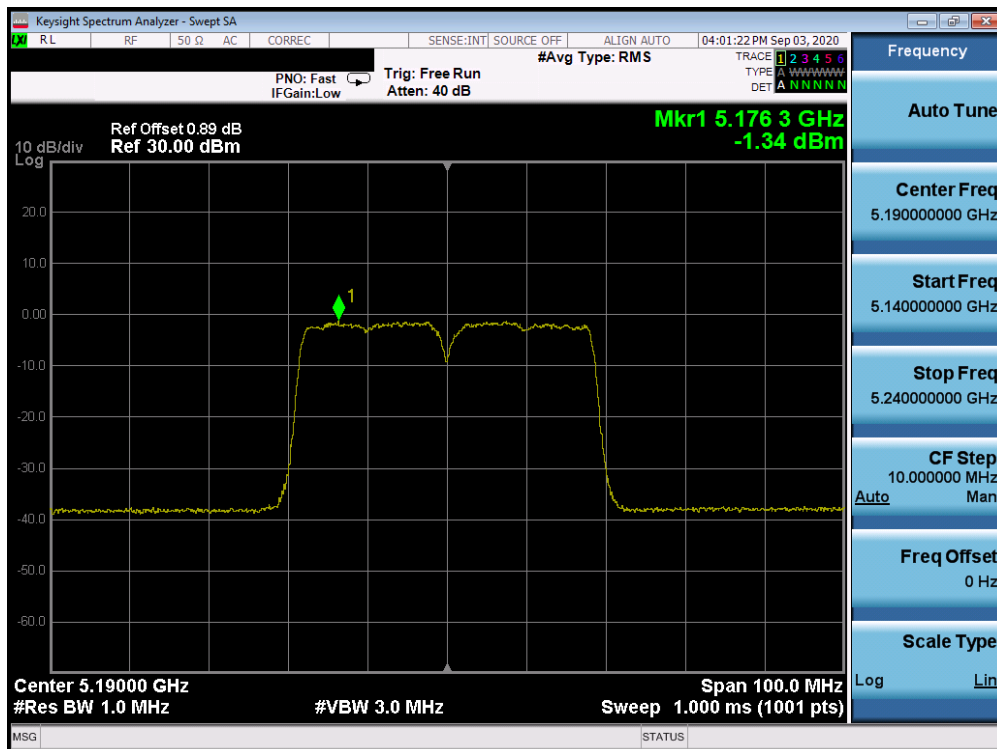


Plot 7-252. ISD Power Spectral Density Plot SDM Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 172 of 344

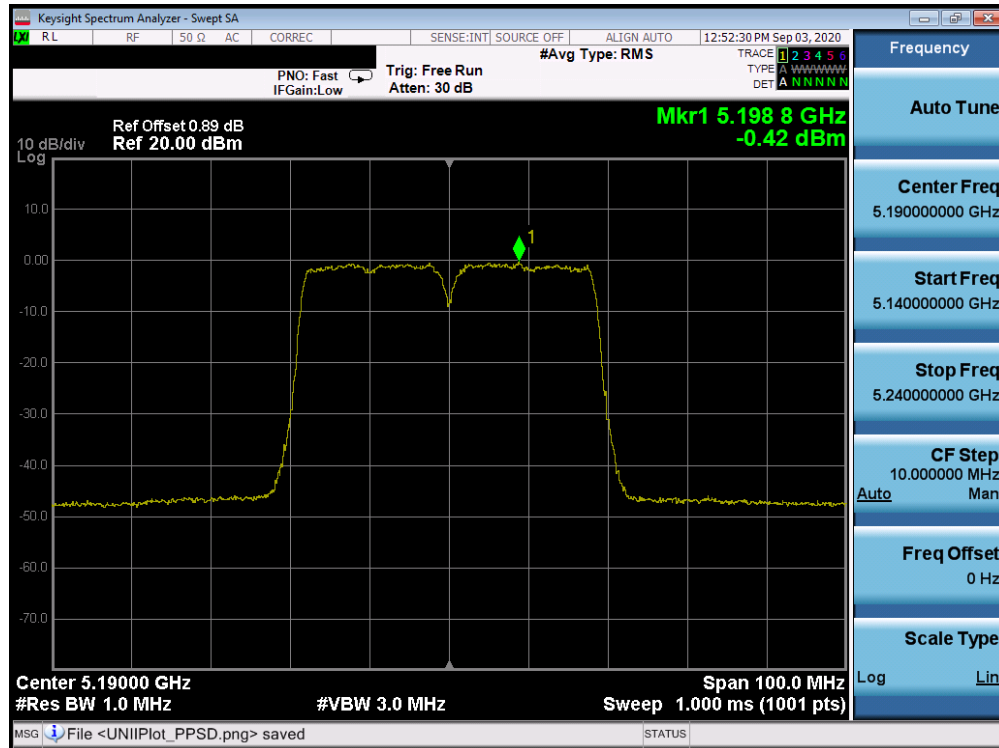


Plot 7-253. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

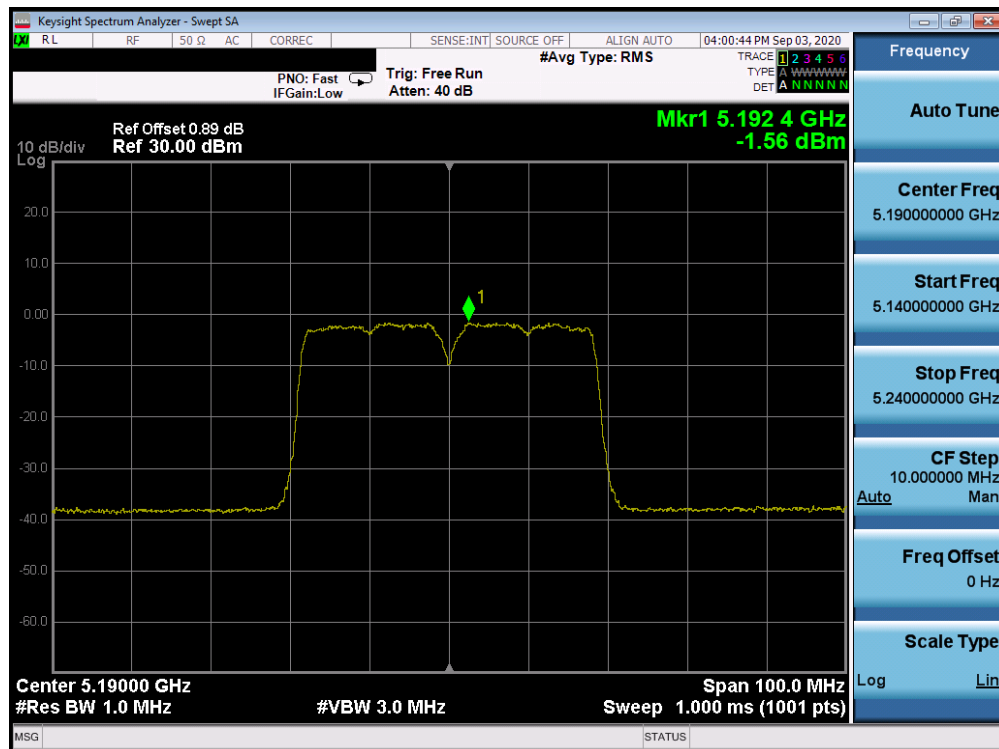


Plot 7-254. ISED Power Spectral Density Plot SDM Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 173 of 344

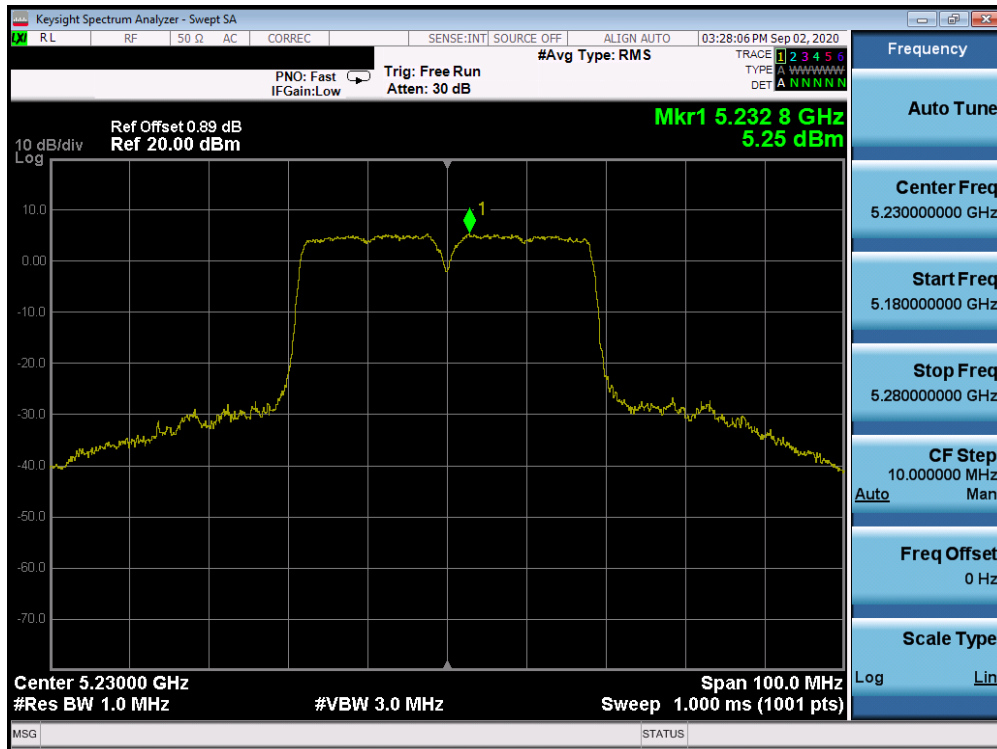


Plot 7-255. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

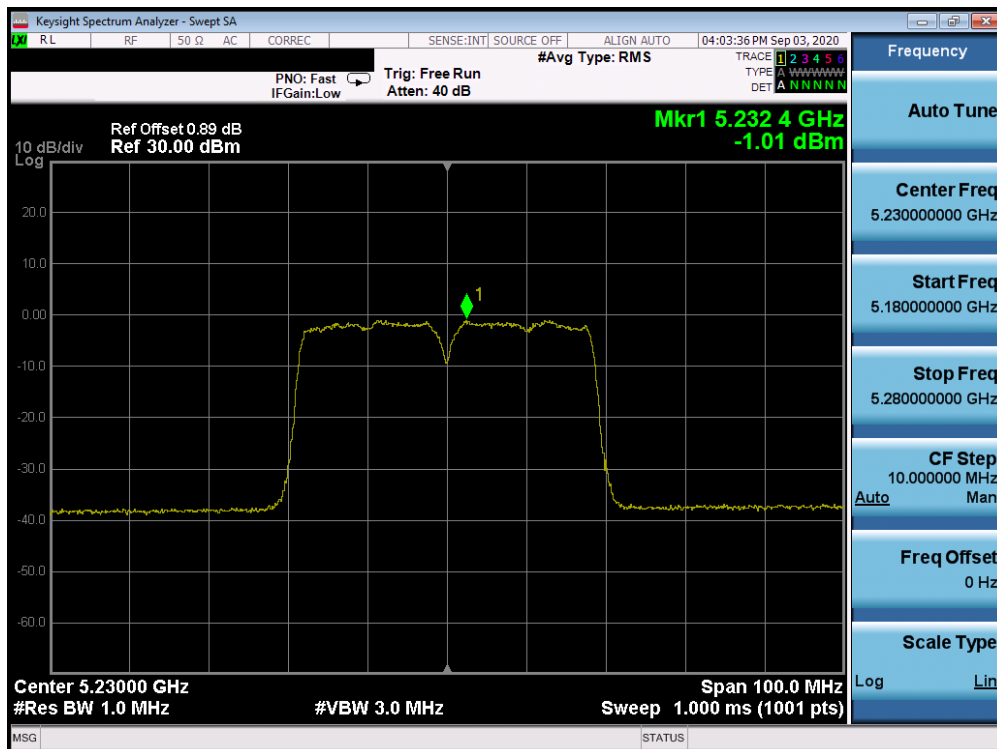


Plot 7-256. ISED Power Spectral Density Plot SDM Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 174 of 344



Plot 7-257. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

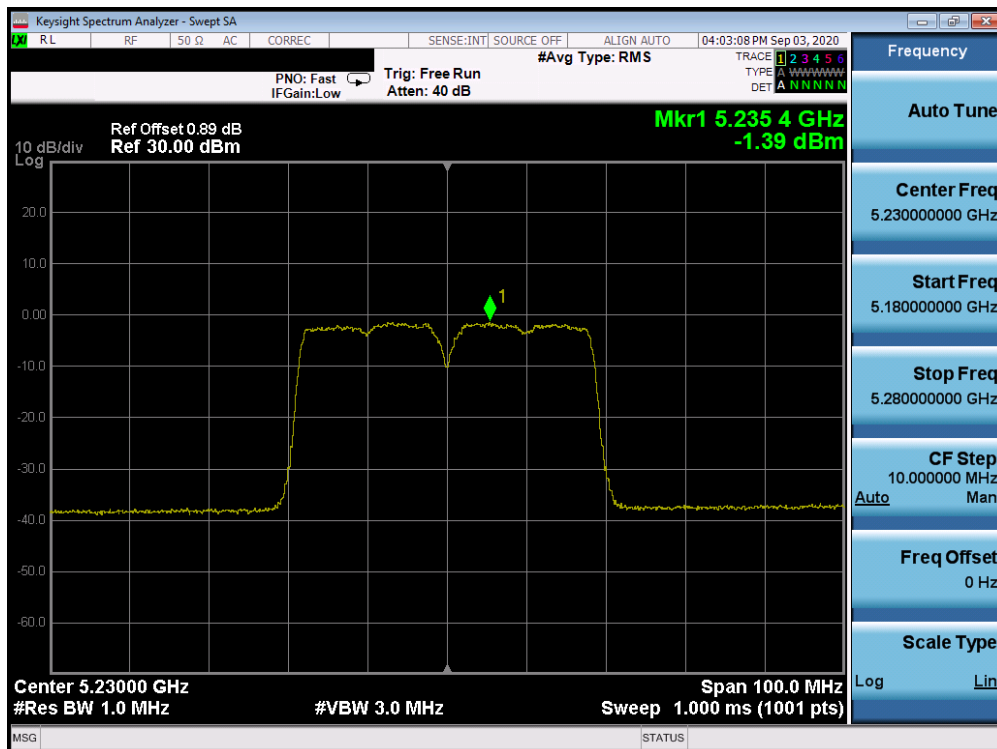


Plot 7-258. ISD Power Spectral Density Plot SDM Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 175 of 344

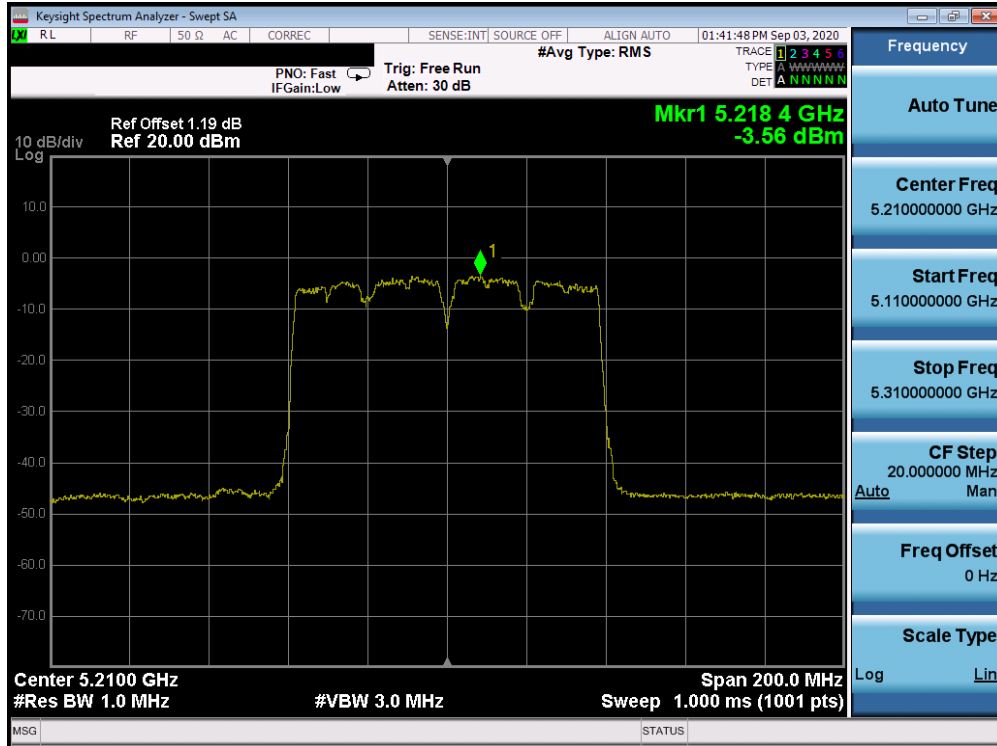


Plot 7-259. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

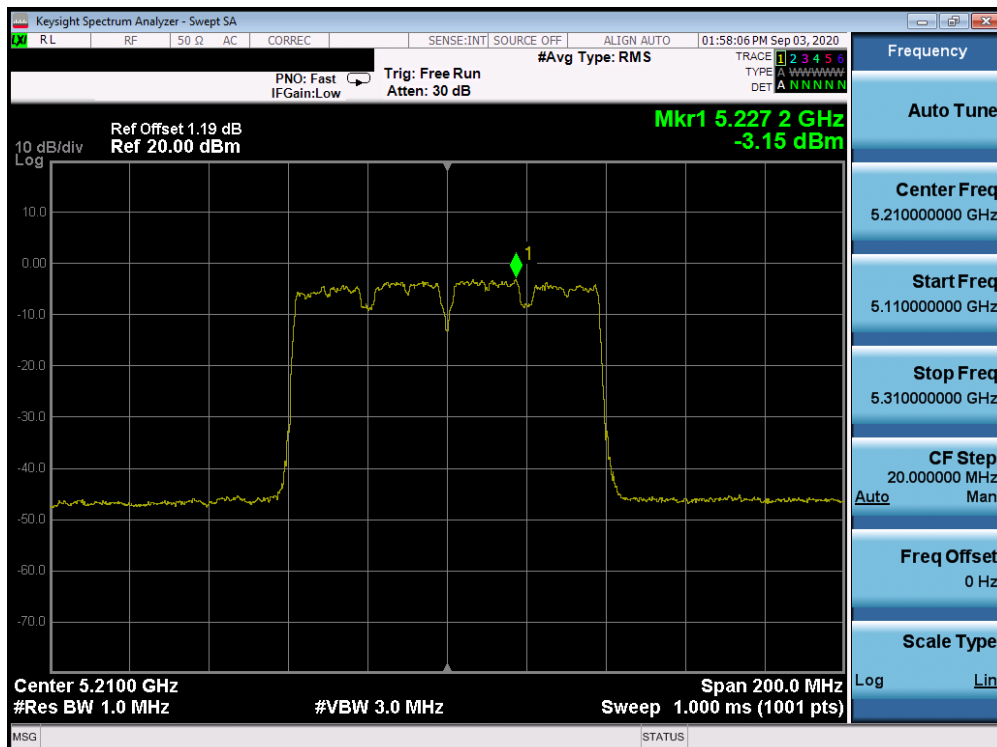


Plot 7-260. ISED Power Spectral Density Plot SDM Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 176 of 344

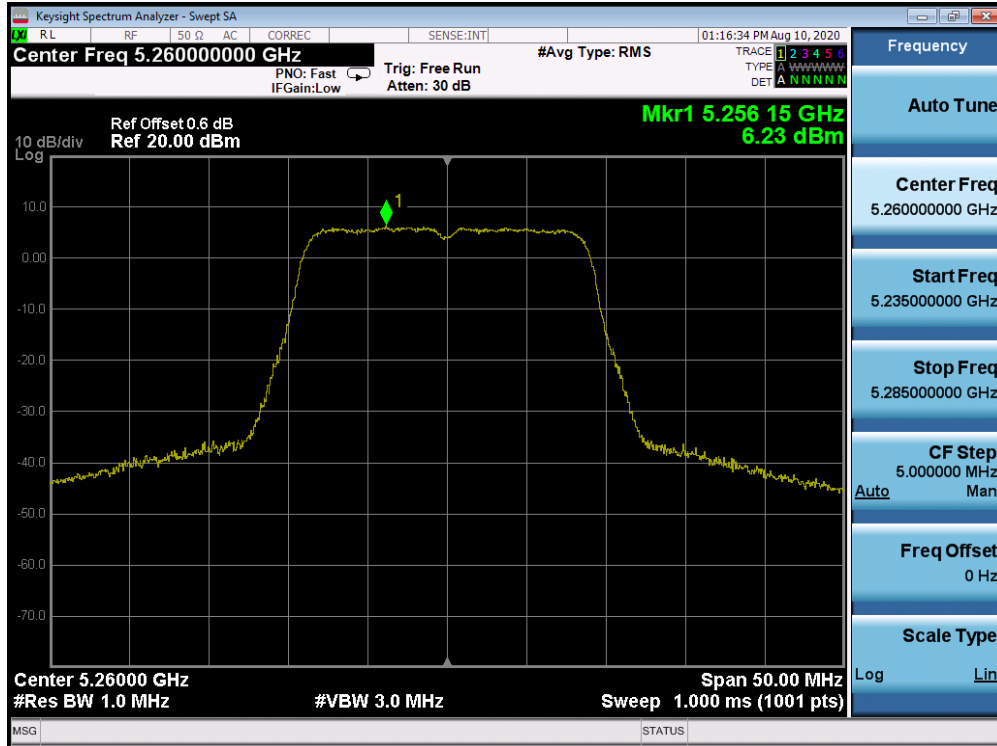


Plot 7-261. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

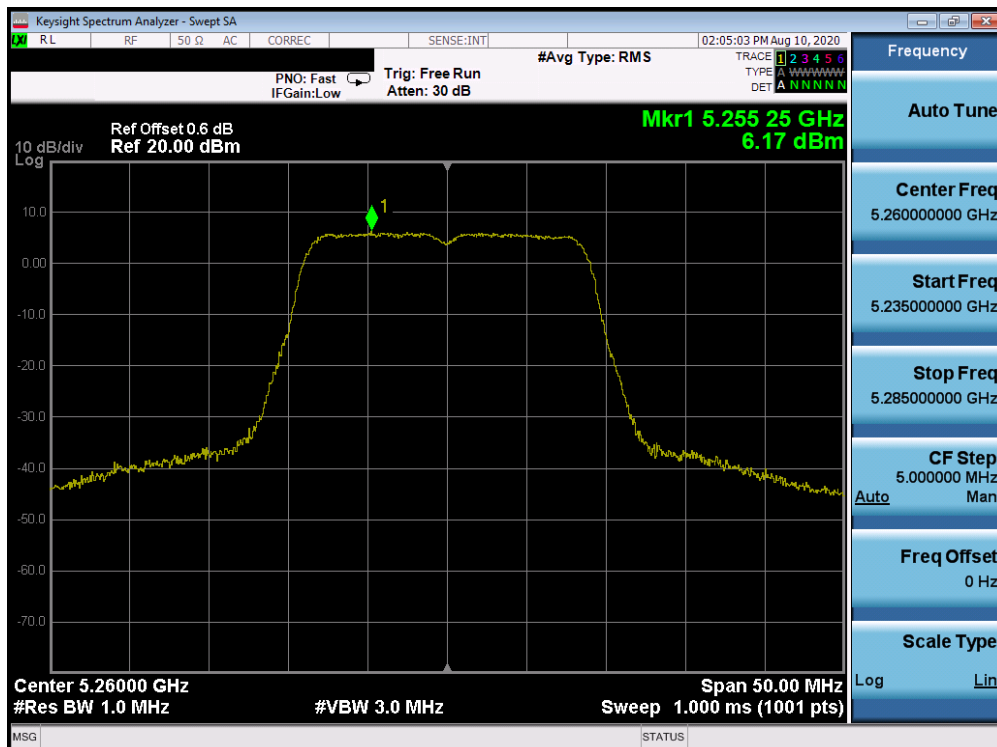


Plot 7-262. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 177 of 344

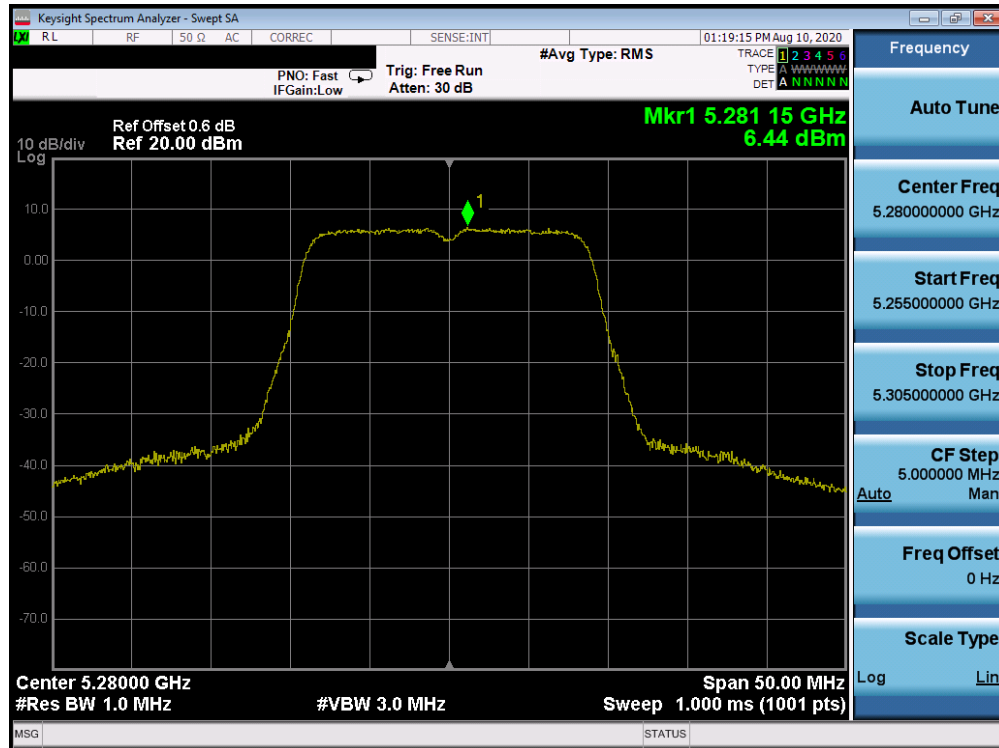


Plot 7-263. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

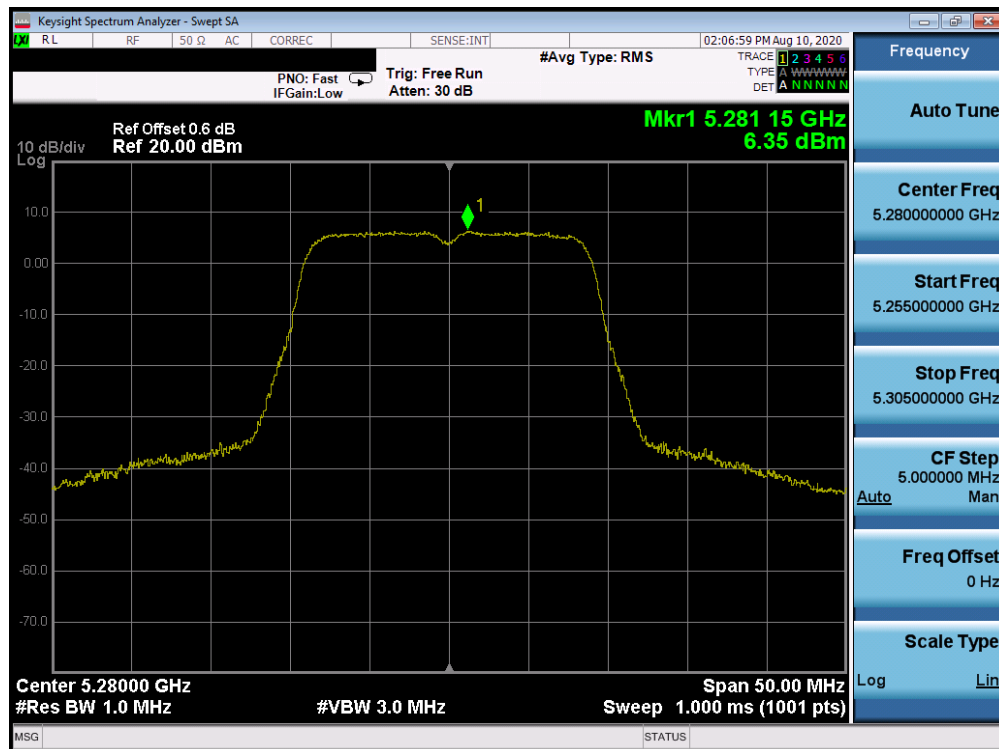


Plot 7-264. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 178 of 344



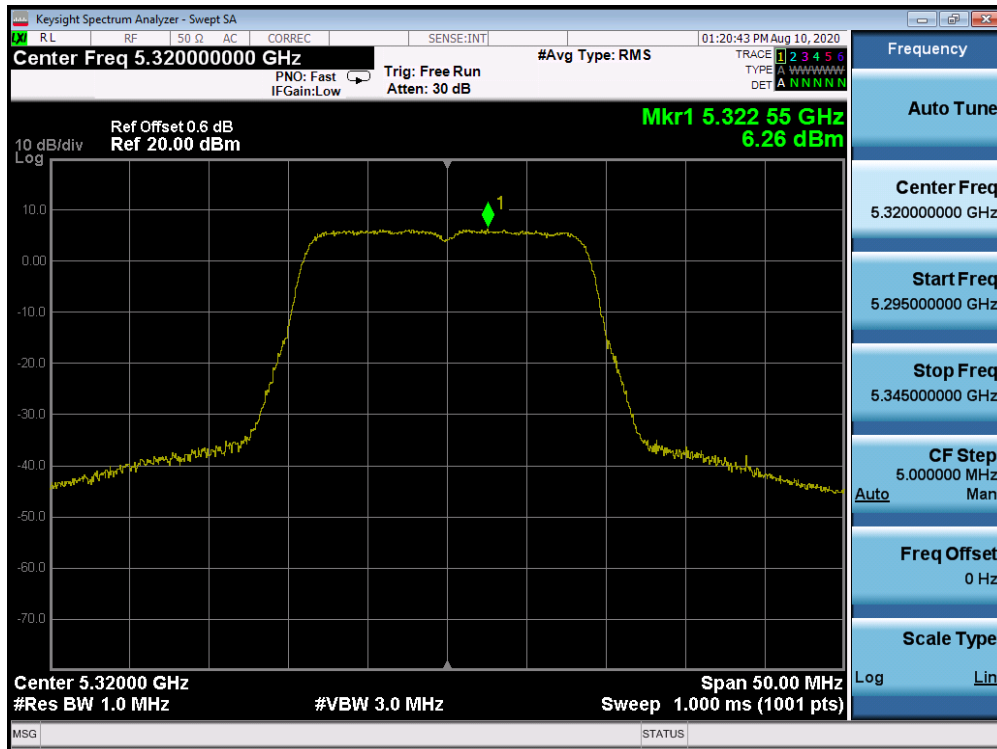
Plot 7-265. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)



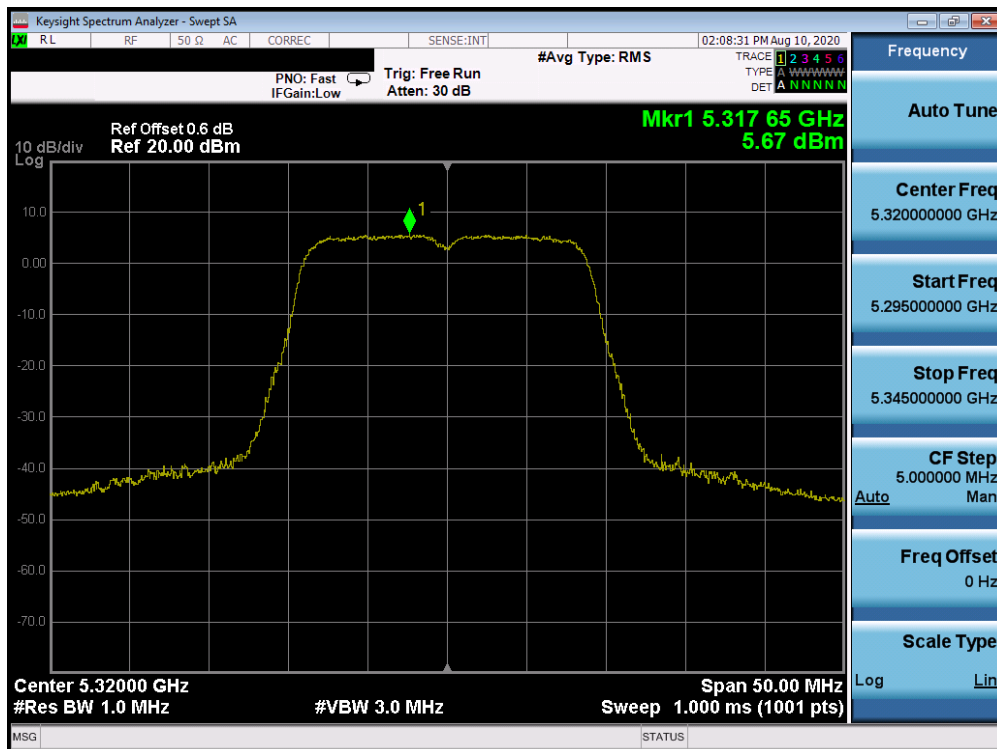
Plot 7-266. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: BCGA2072	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 179 of 344



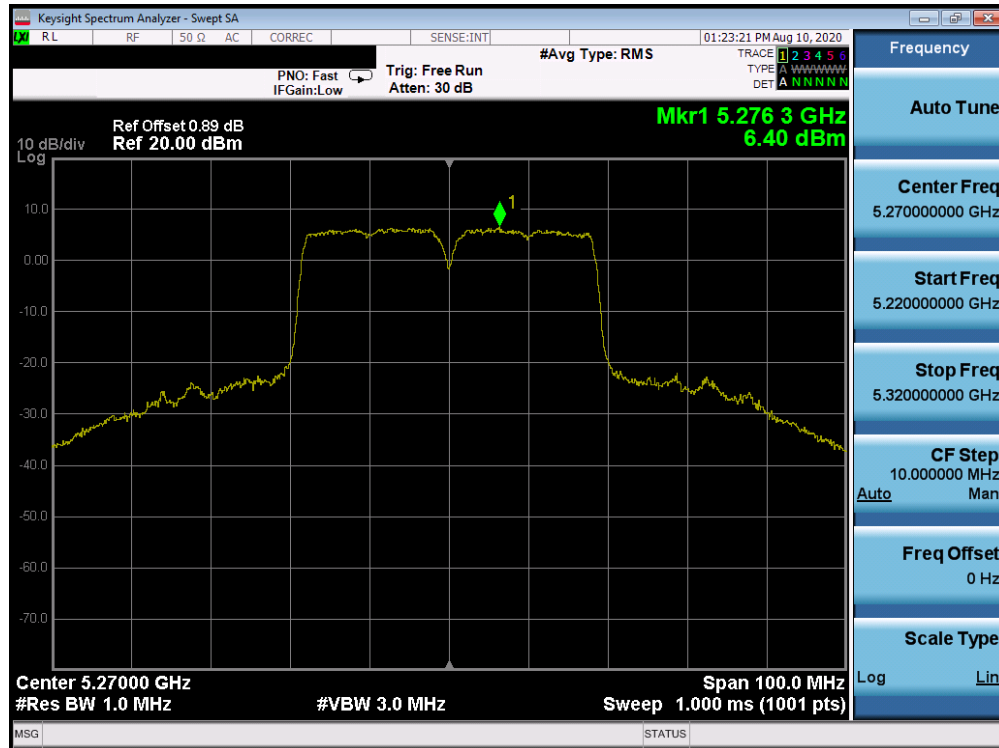


Plot 7-267. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

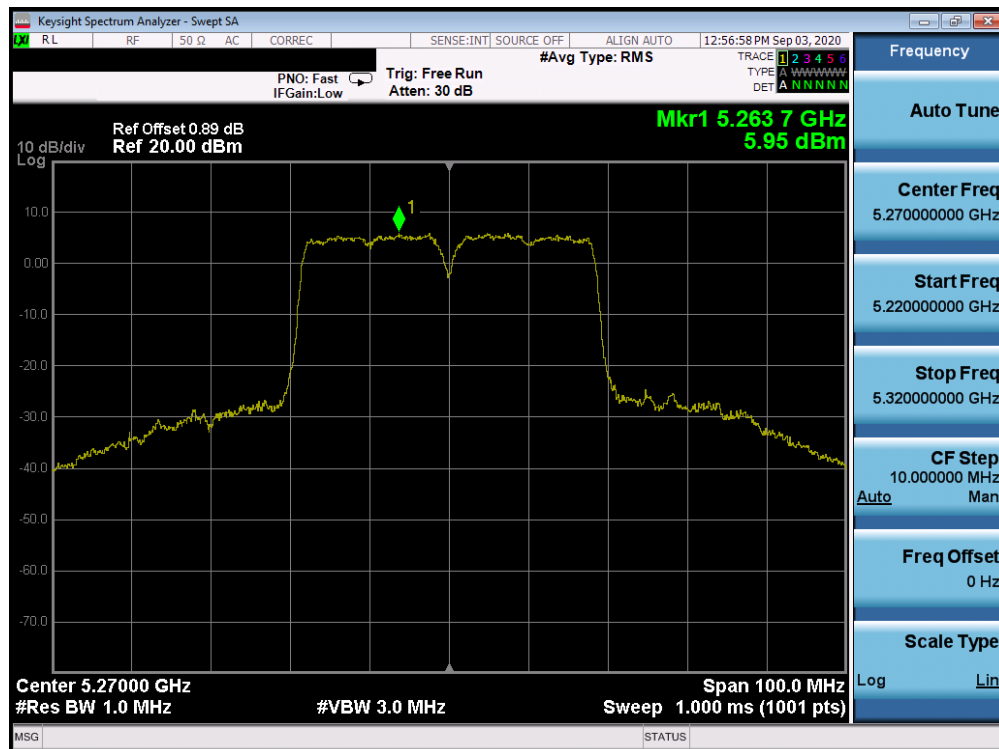


Plot 7-268. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 180 of 344

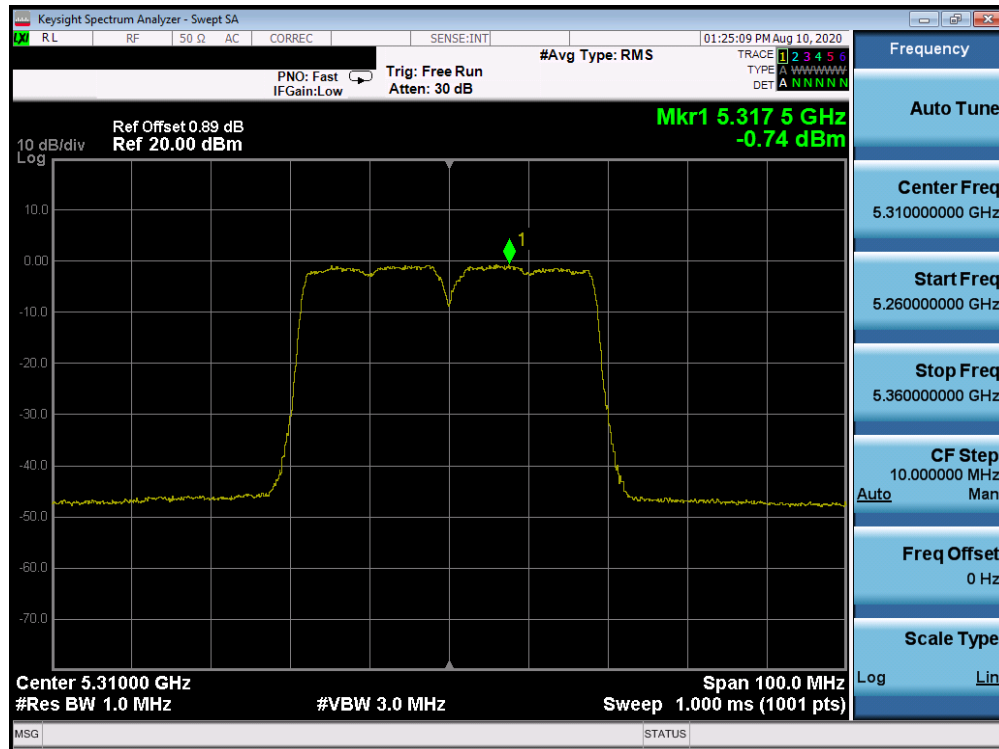


Plot 7-269. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

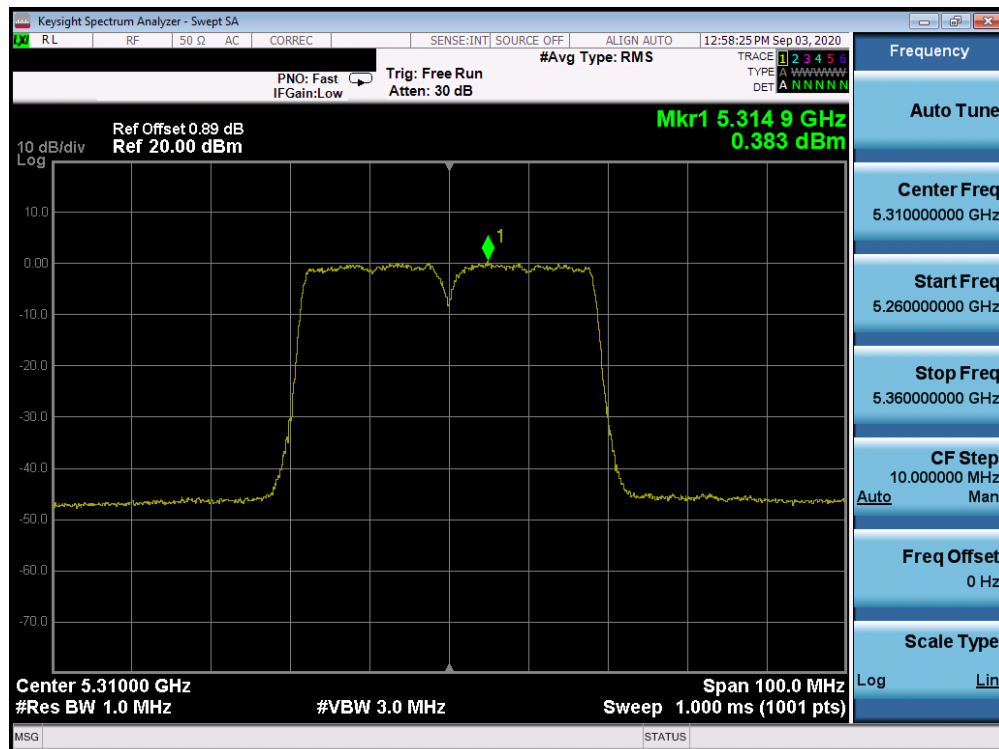


Plot 7-270. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 181 of 344

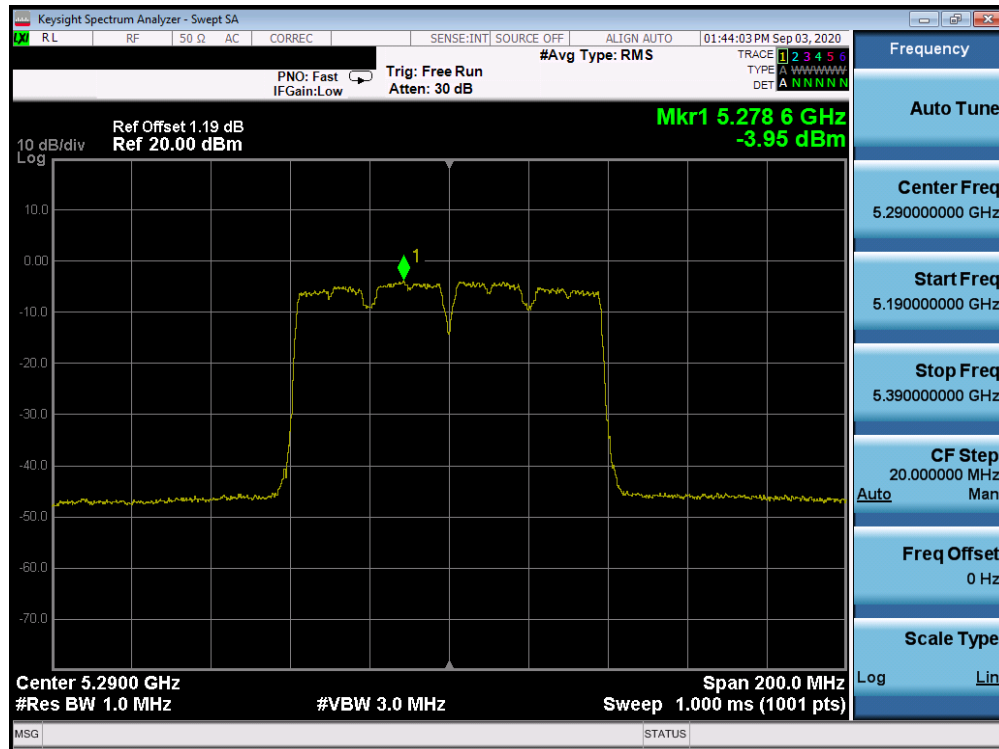


Plot 7-271. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

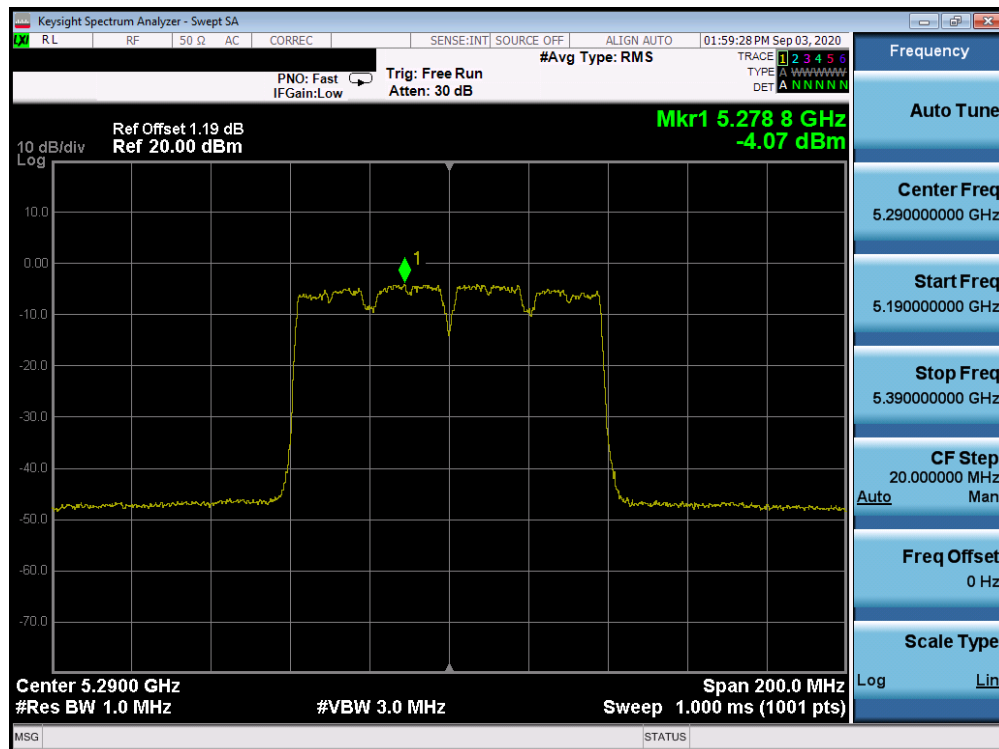


Plot 7-272. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 182 of 344

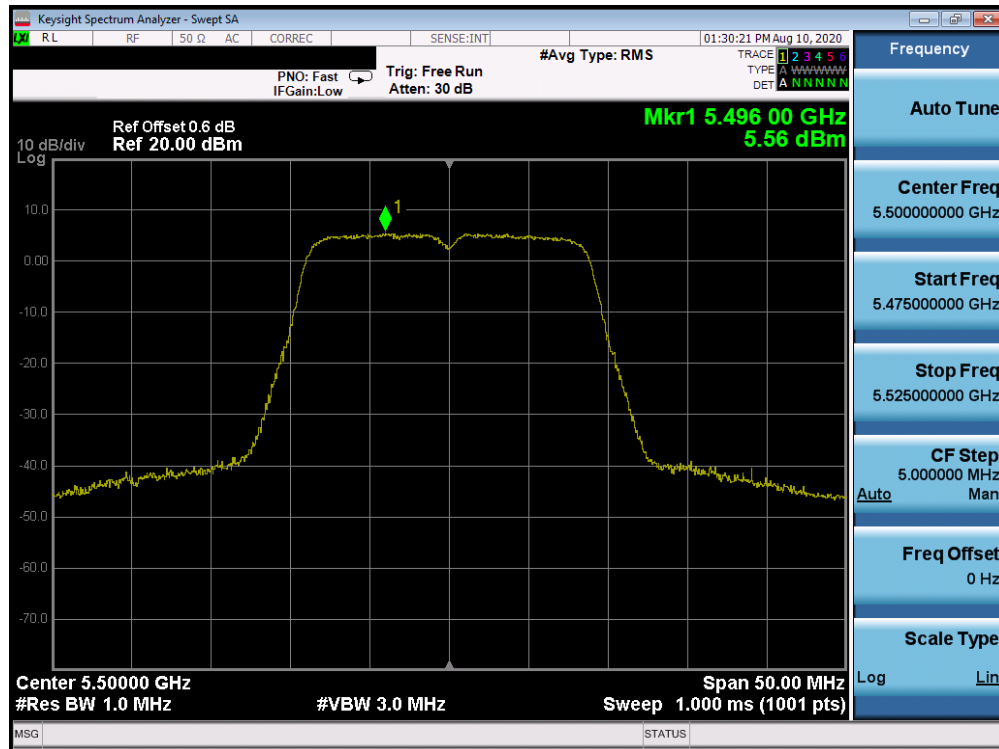


Plot 7-273. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

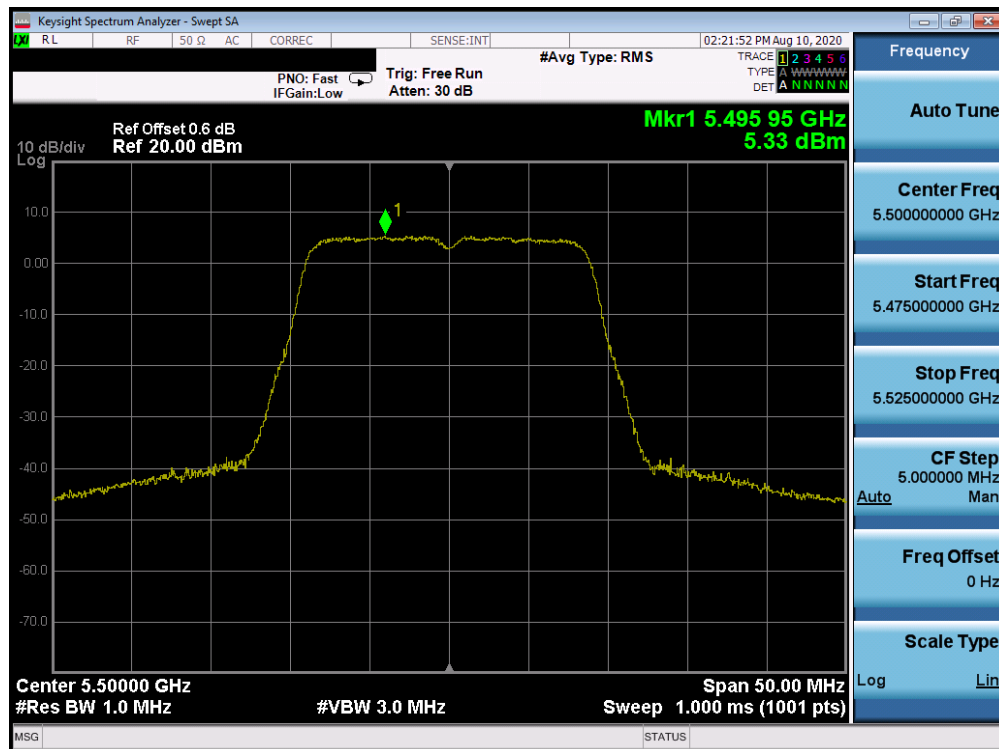


Plot 7-274. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 183 of 344

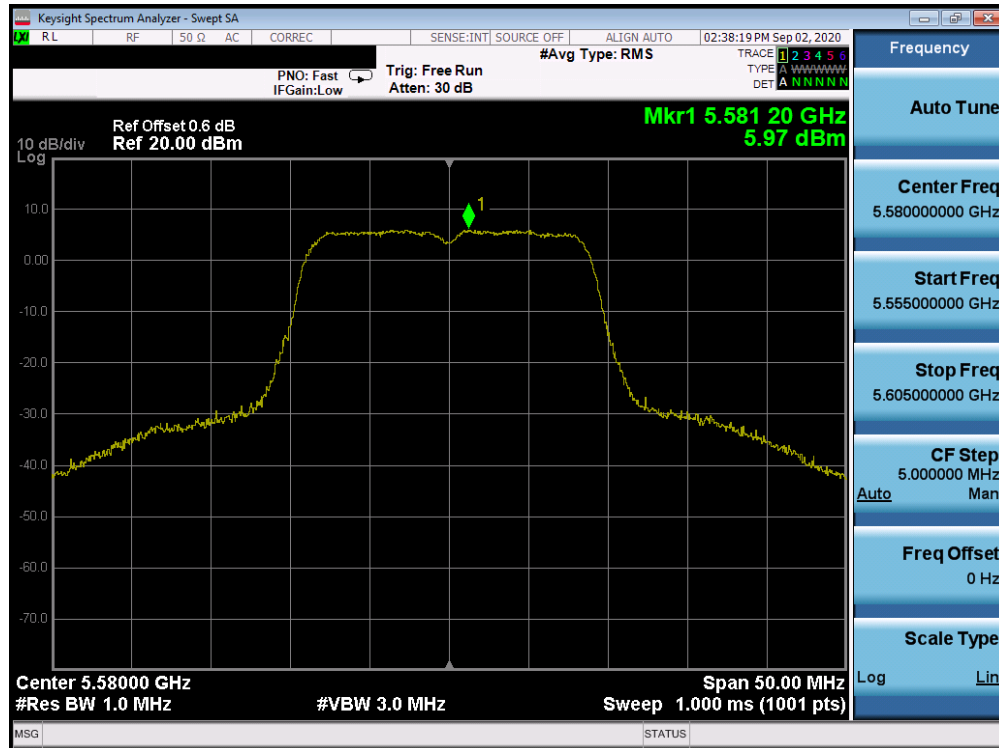


Plot 7-275. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

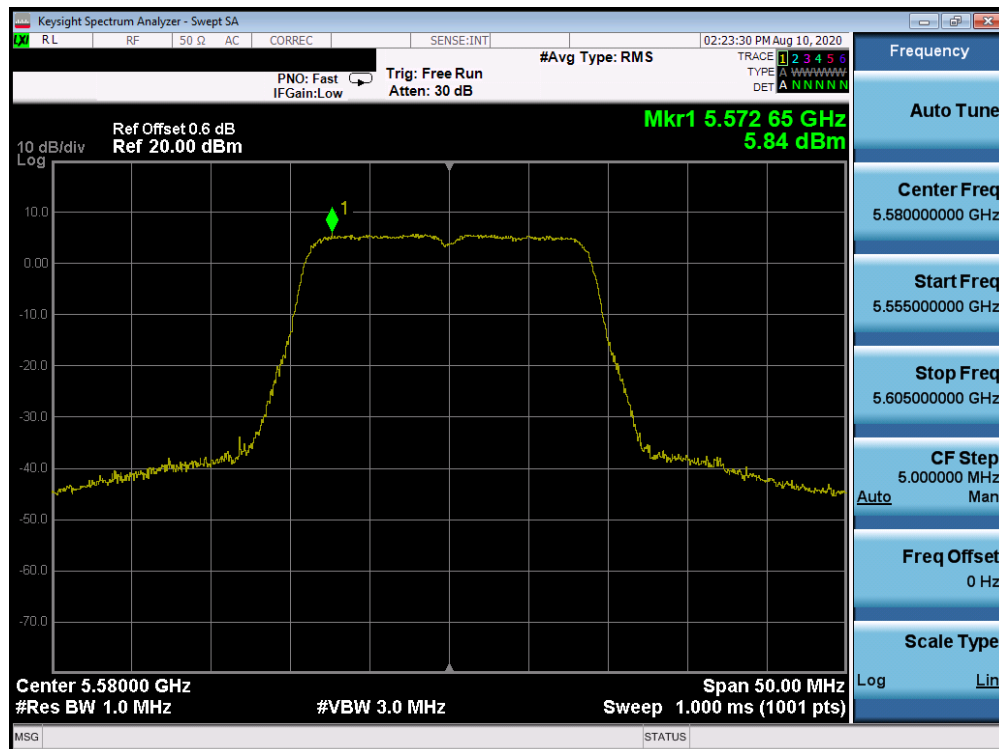


Plot 7-276. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 184 of 344

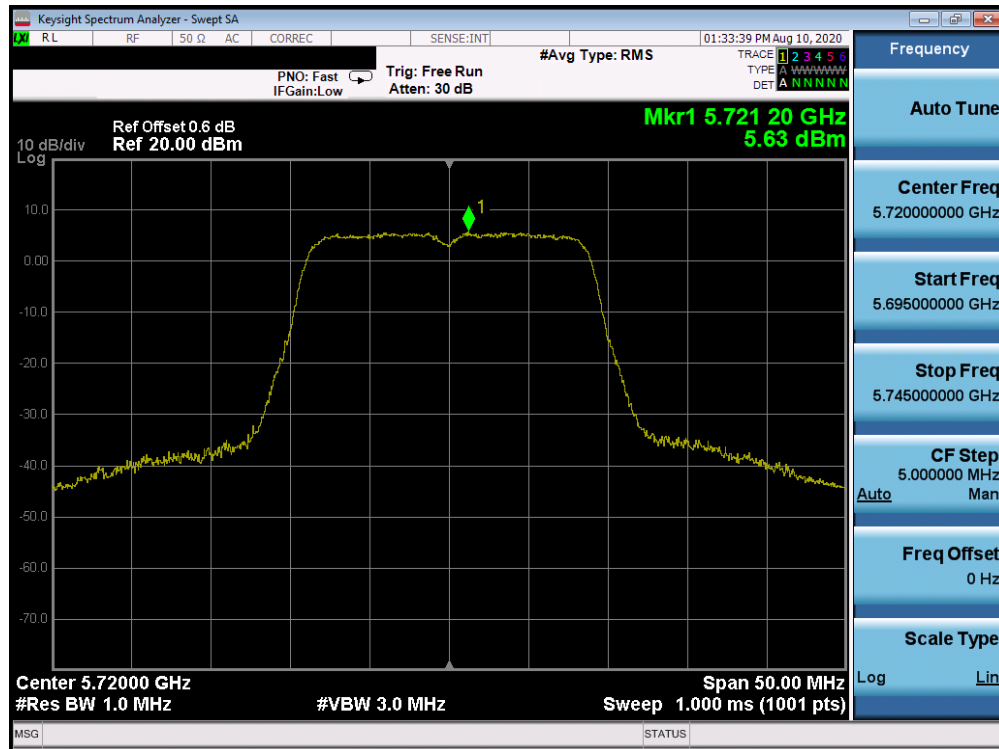


Plot 7-277. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 116

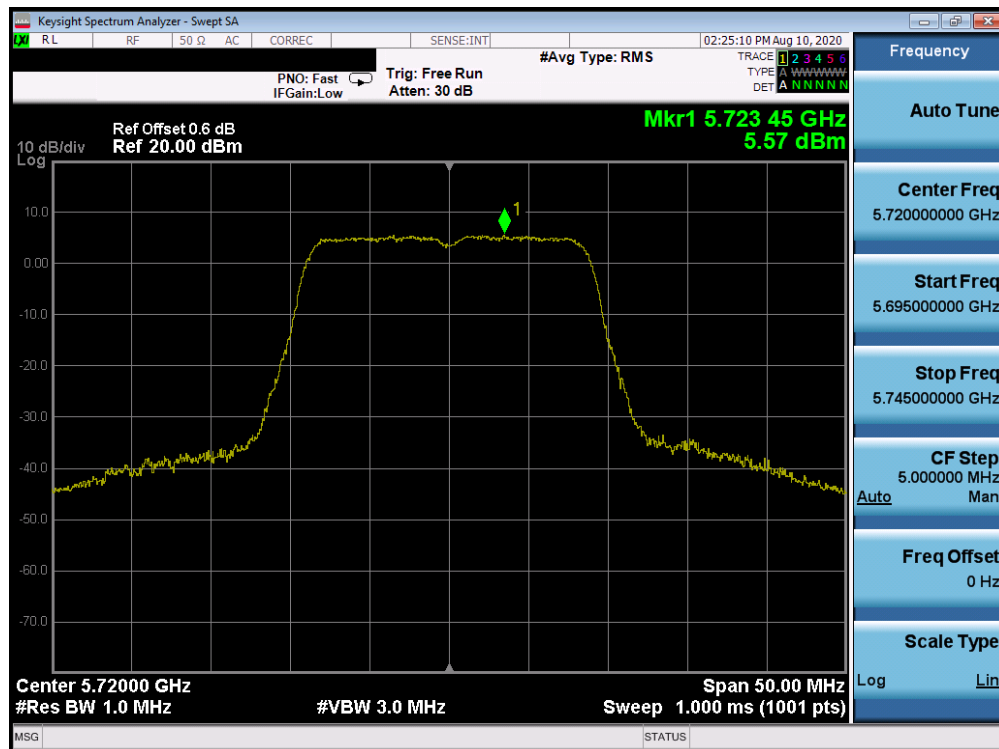


Plot 7-278. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 185 of 344

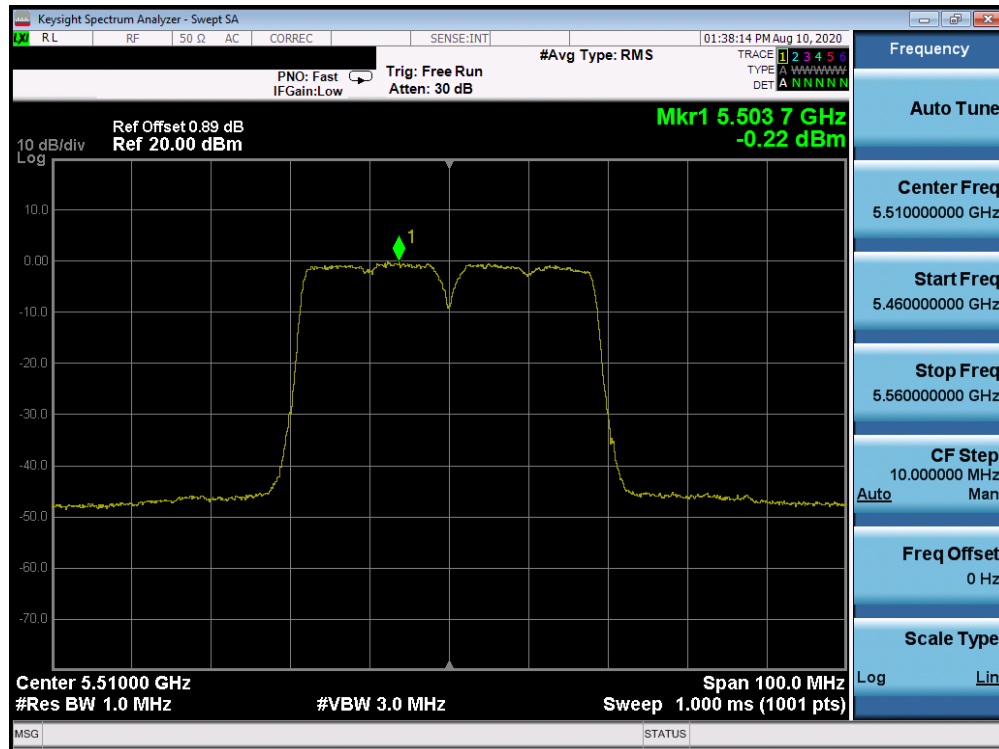


Plot 7-279. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 2C) – Ch. 144

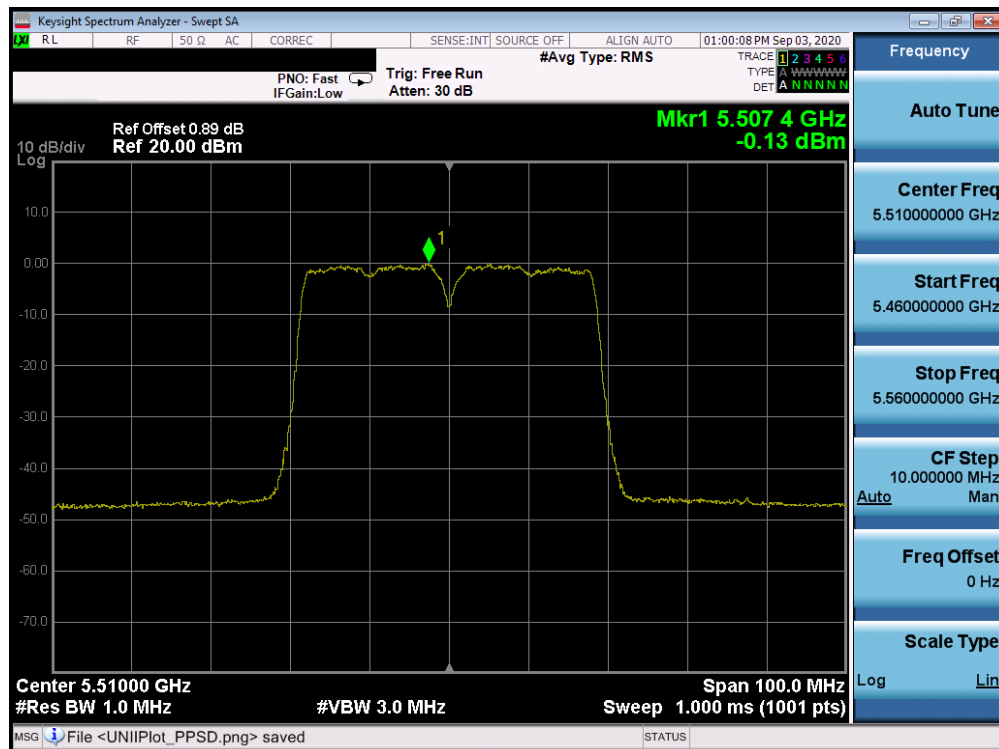


Plot 7-280. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 186 of 344



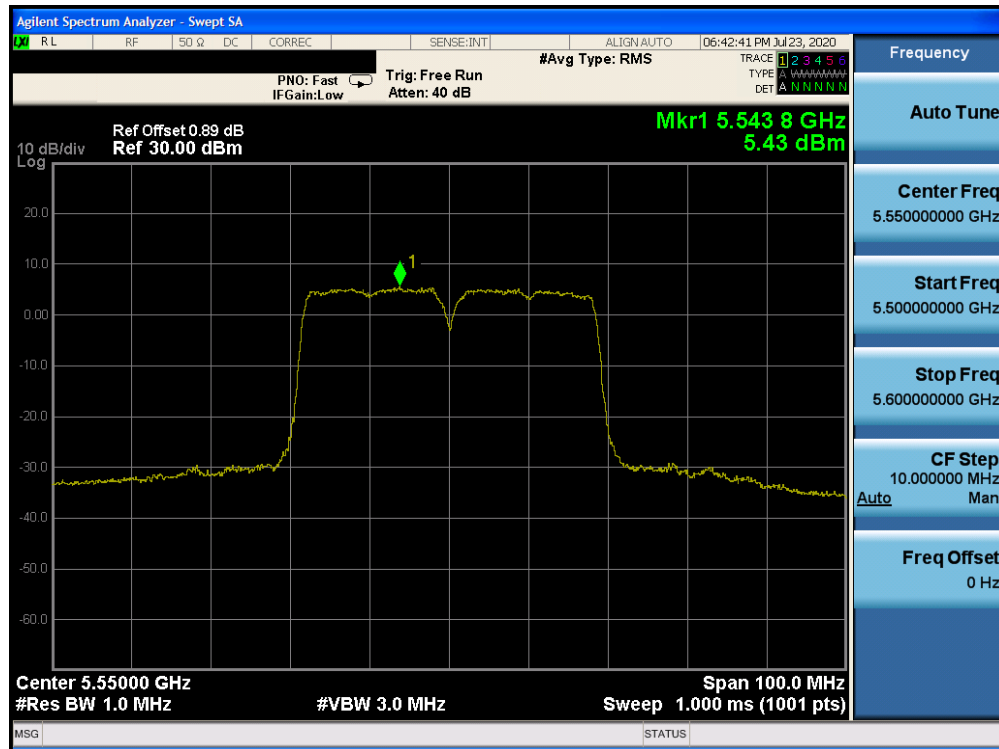
Plot 7-281. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)



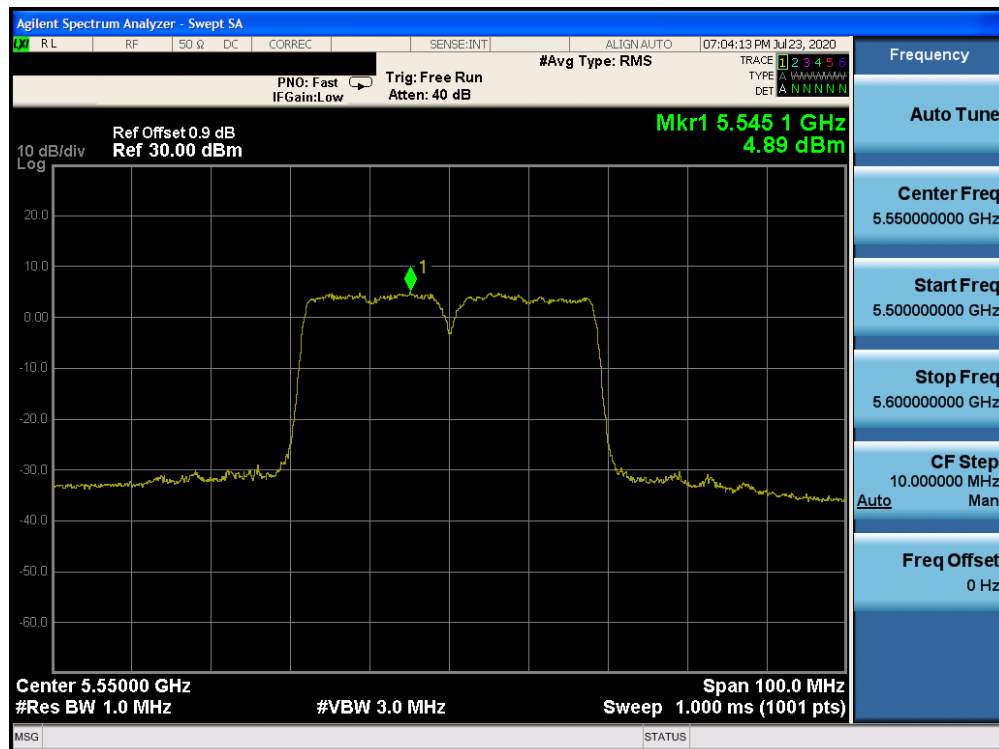
Plot 7-282. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 187 of 344



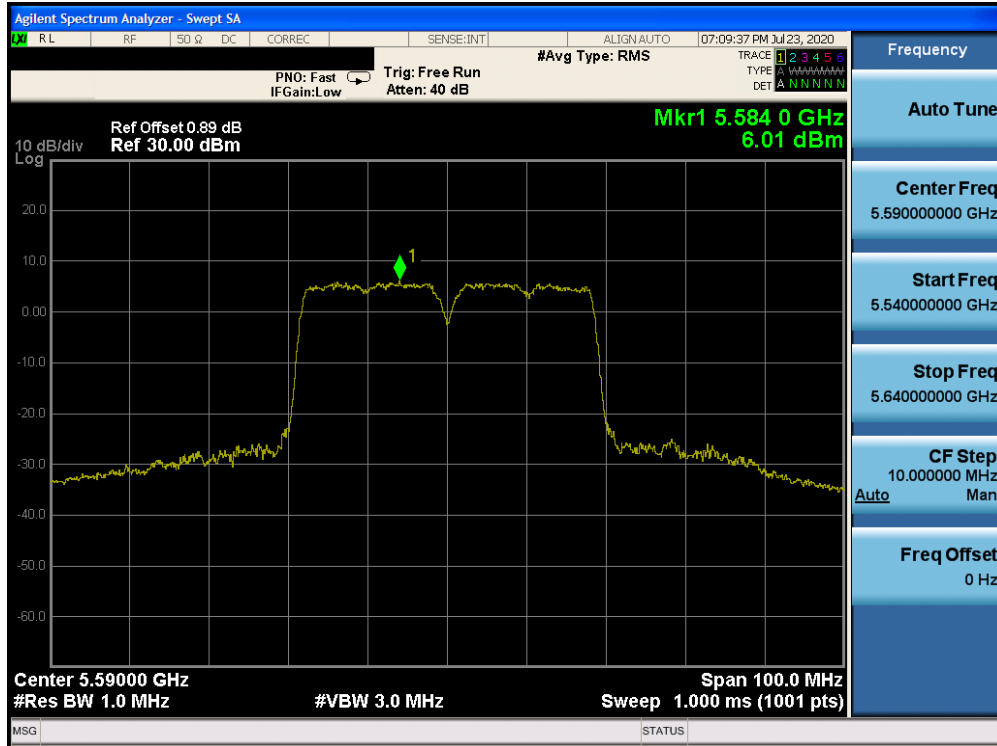


Plot 7-283. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

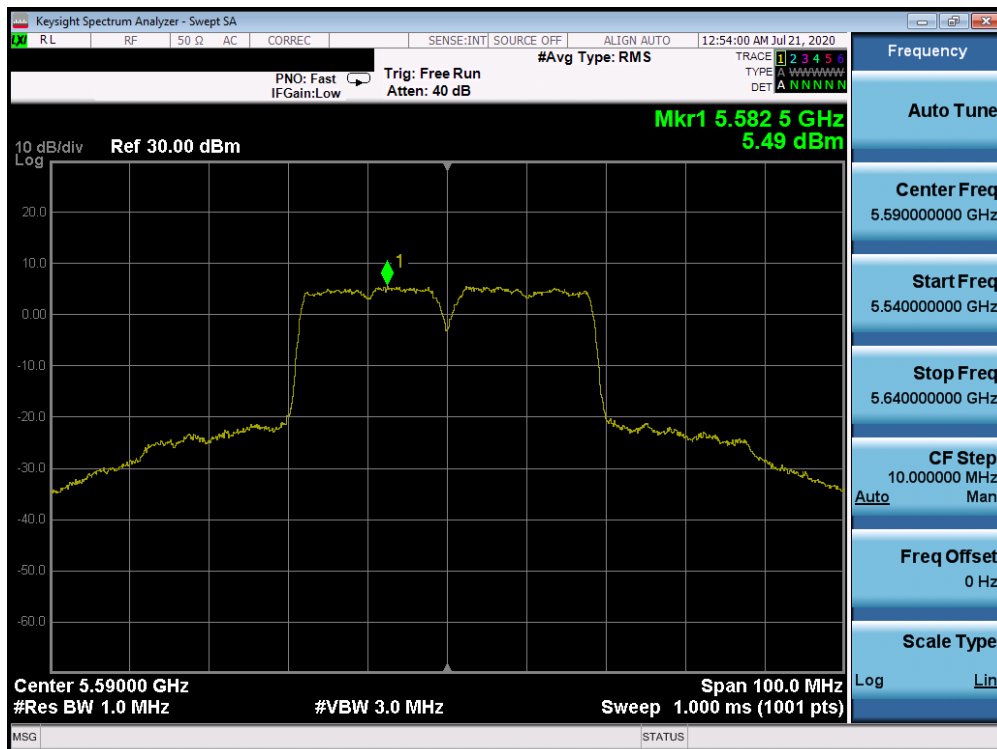


Plot 7-284. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 188 of 344

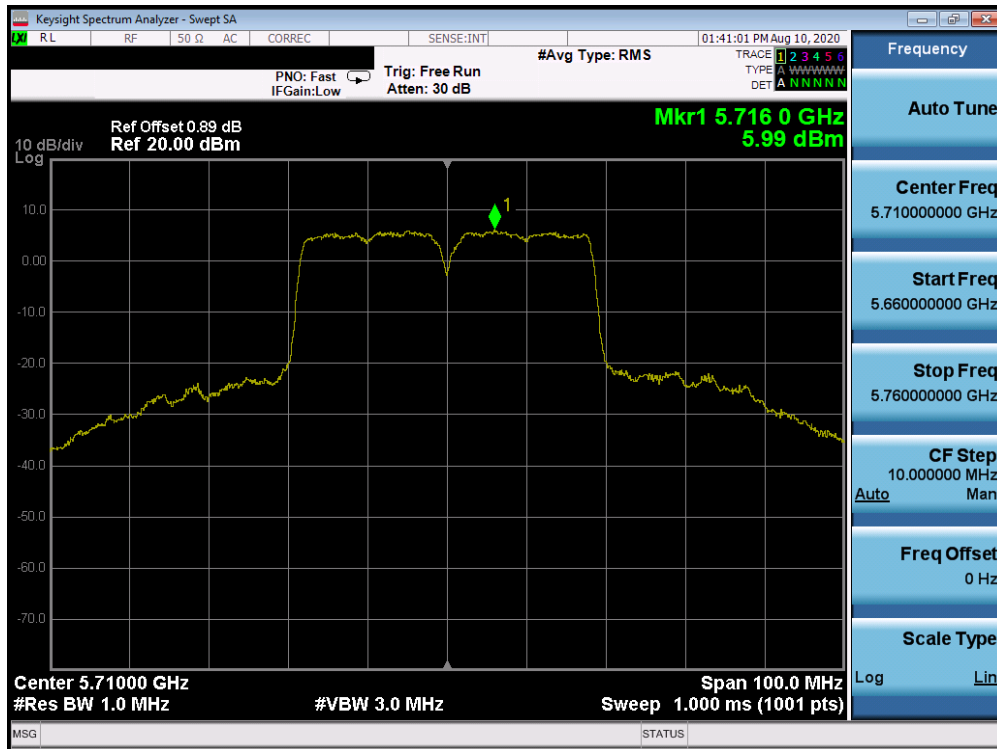


Plot 7-285. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)



Plot 7-286. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 189 of 344

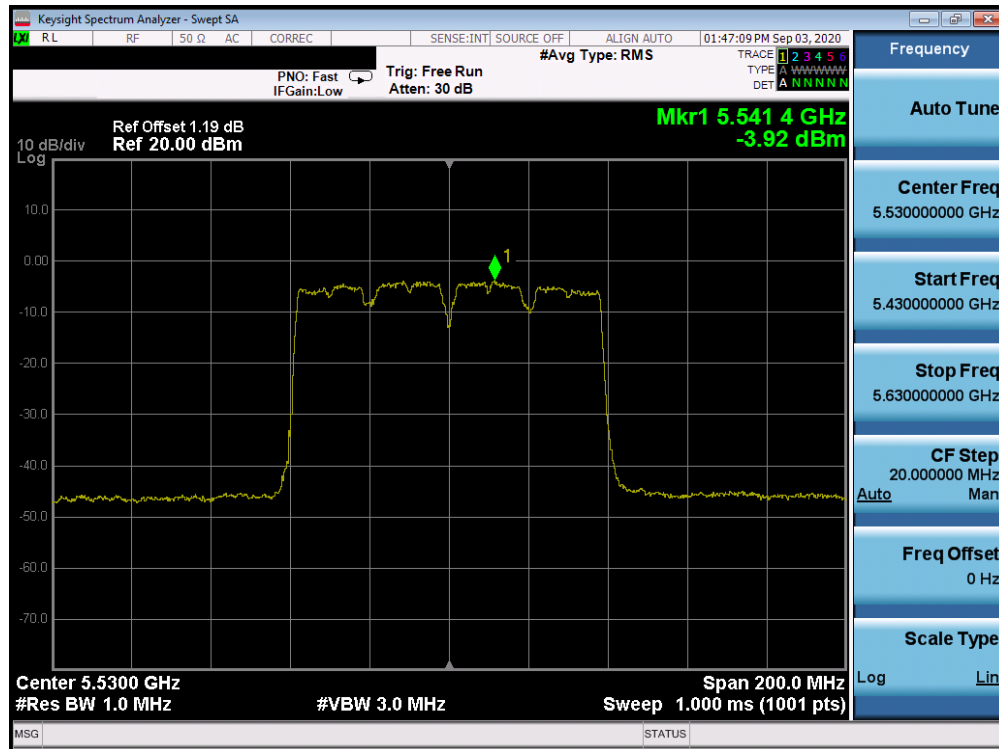


Plot 7-287. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

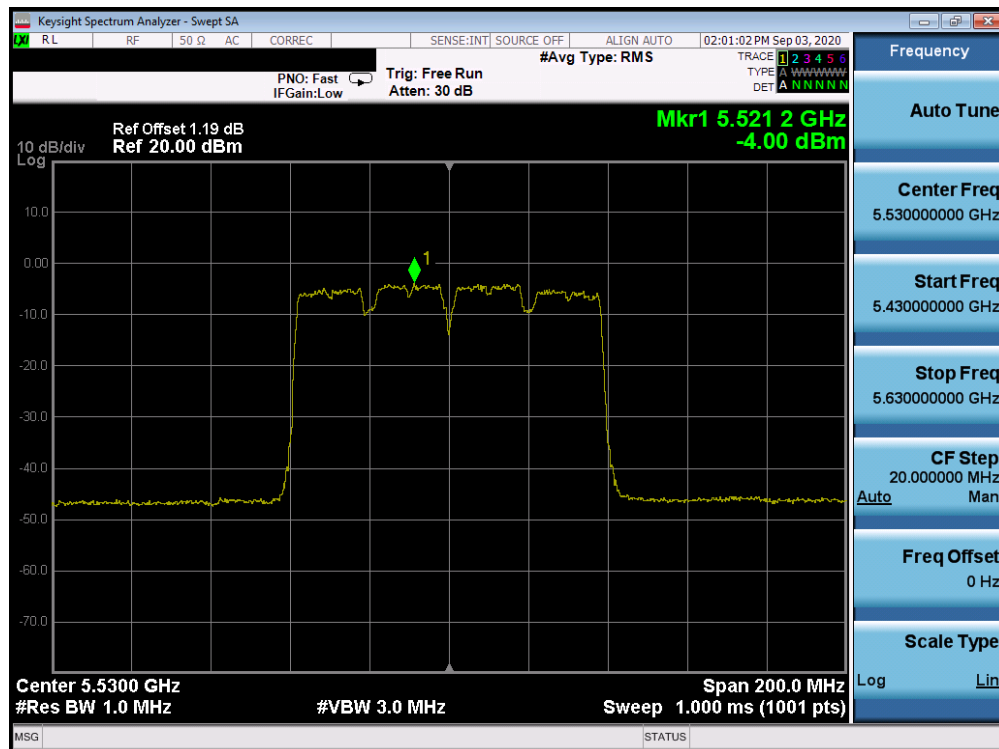


Plot 7-288. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 190 of 344

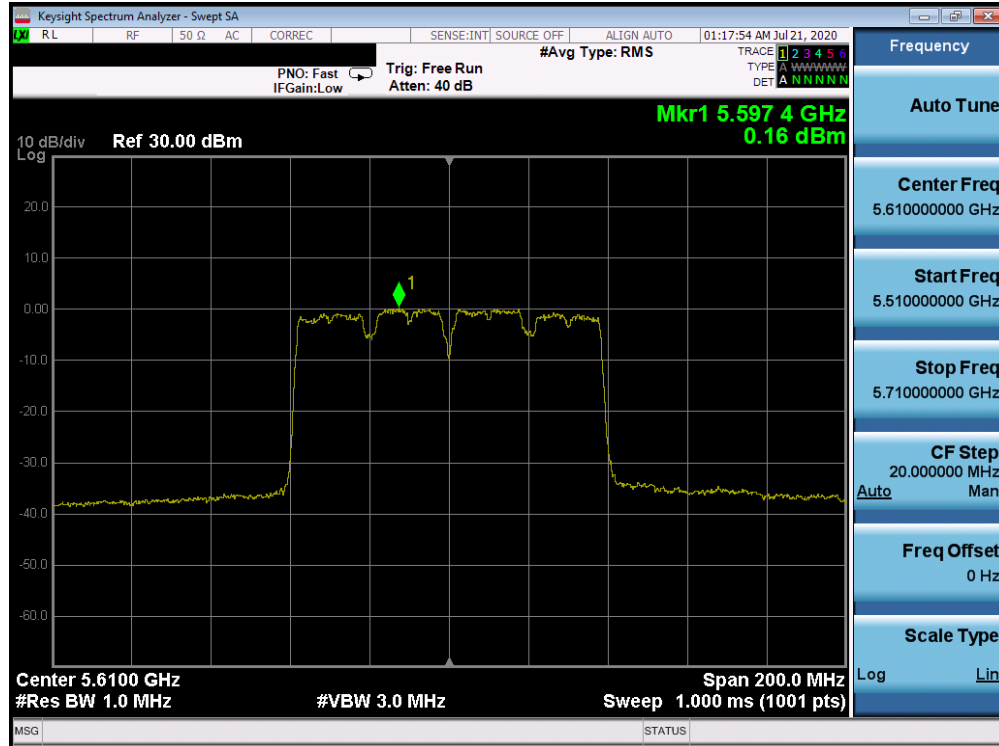


Plot 7-289. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

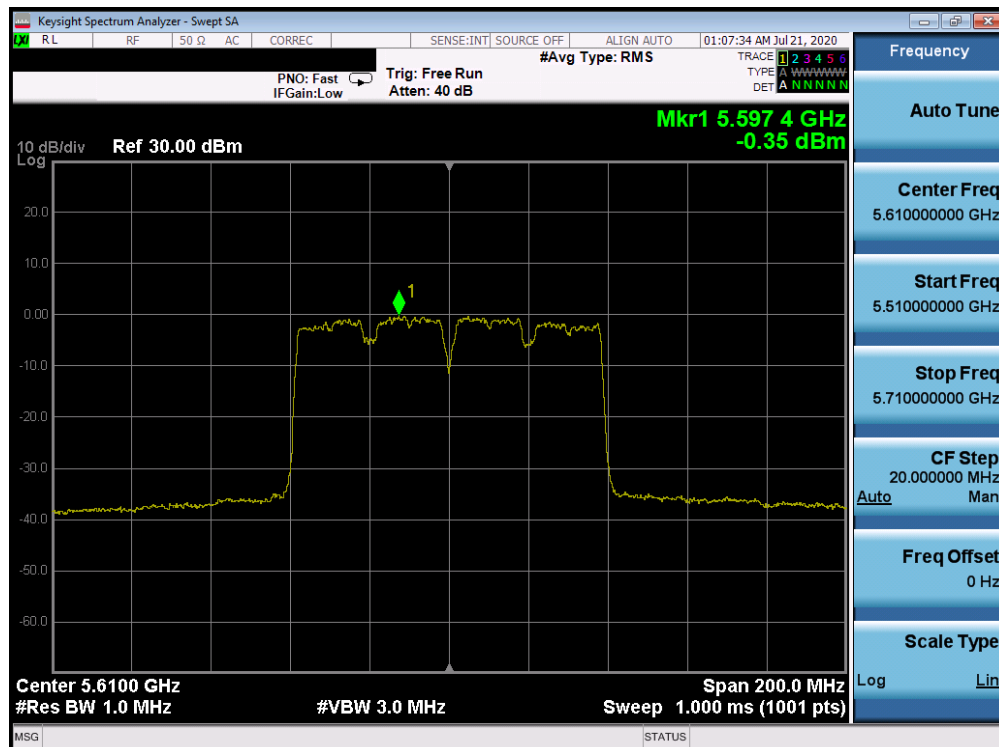


Plot 7-290. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 191 of 344

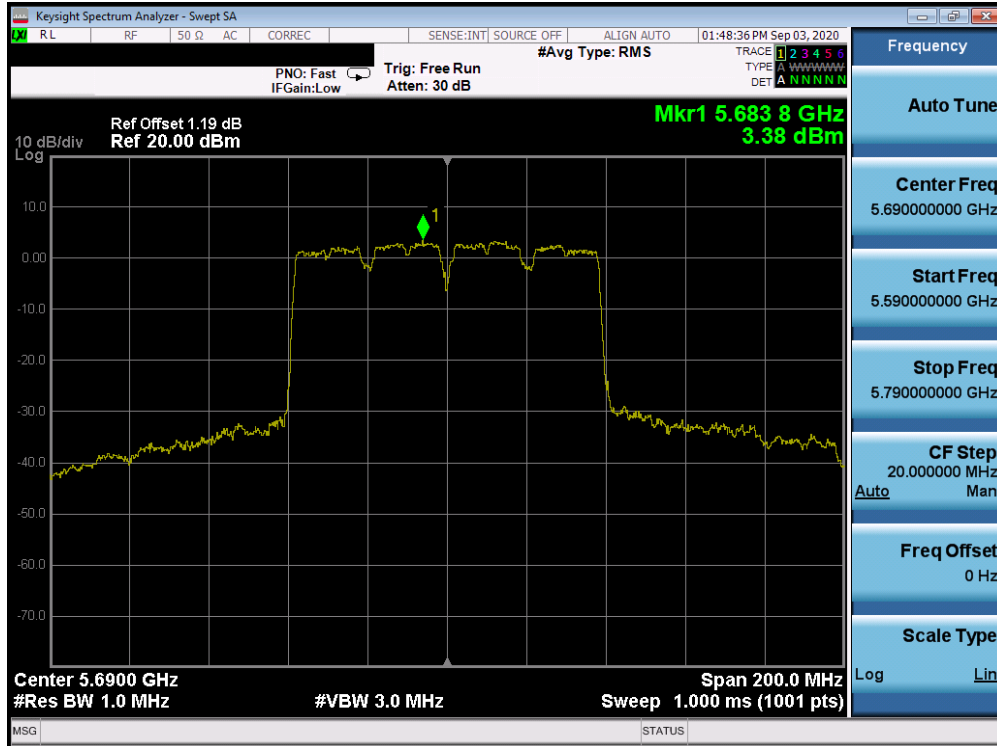


Plot 7-291. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

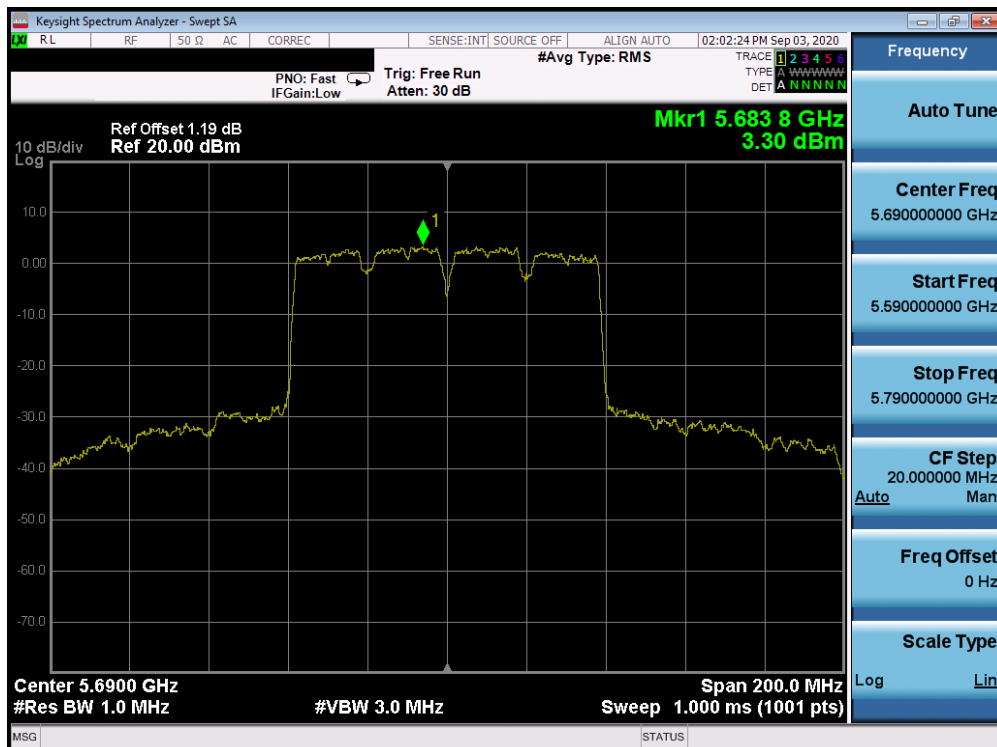


Plot 7-292. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 192 of 344



Plot 7-293. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)



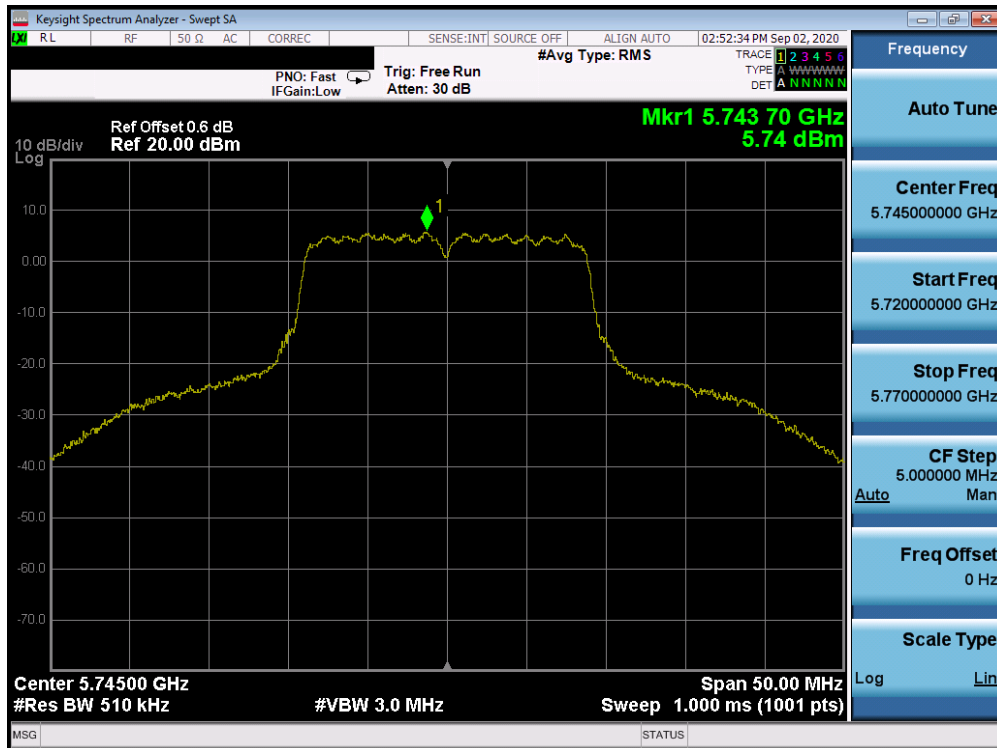
Plot 7-294. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 193 of 344

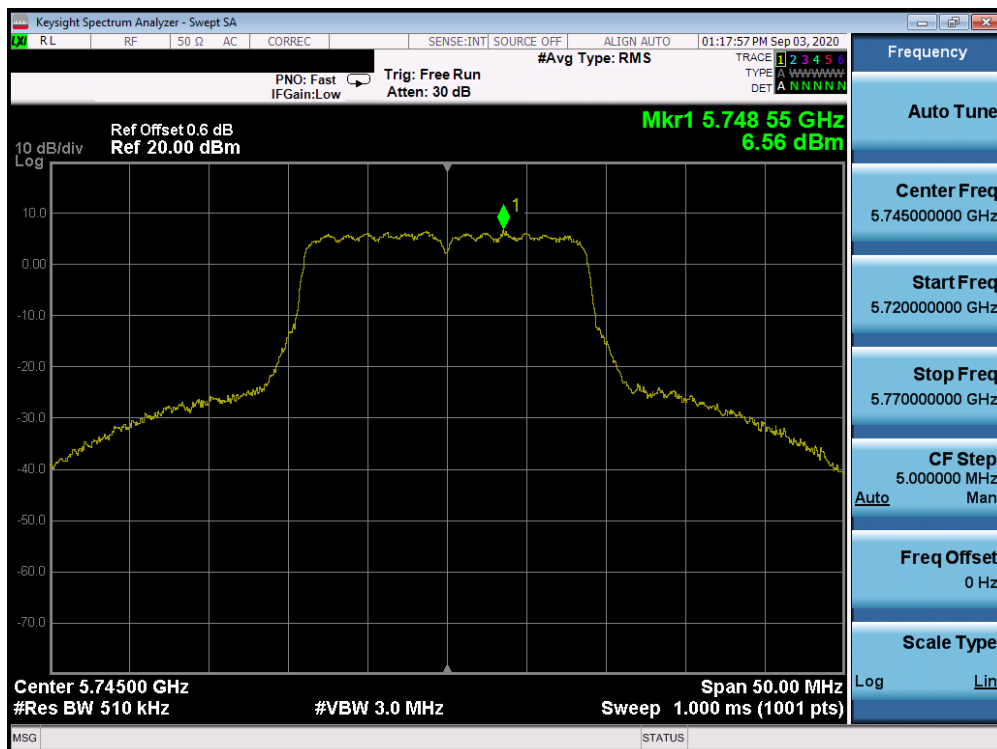
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 2b Power Density [dBm/500kHz]	Antenna 1b Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	130/144.4 (MCS15)	5.74	6.56	9.18	30.0	-20.82
	5785	157	n (20MHz)	130/144.4 (MCS15)	5.96	6.11	9.05	30.0	-20.95
	5825	165	n (20MHz)	130/144.4 (MCS15)	5.69	6.63	9.20	30.0	-20.80
	5755	151	n (40MHz)	270/300 (MCS15)	4.52	4.34	7.44	30.0	-22.56
	5795	159	n (40MHz)	270/300 (MCS15)	4.36	4.51	7.45	30.0	-22.55
	5775	155	ac (80MHz)	780/866.7 (MCS9)	-0.20	-0.04	2.89	30.0	-27.11

**Table 7-56. Band 3 CDD Diversity Power Spectral Density Measurements**

FCC ID: BCGA2072	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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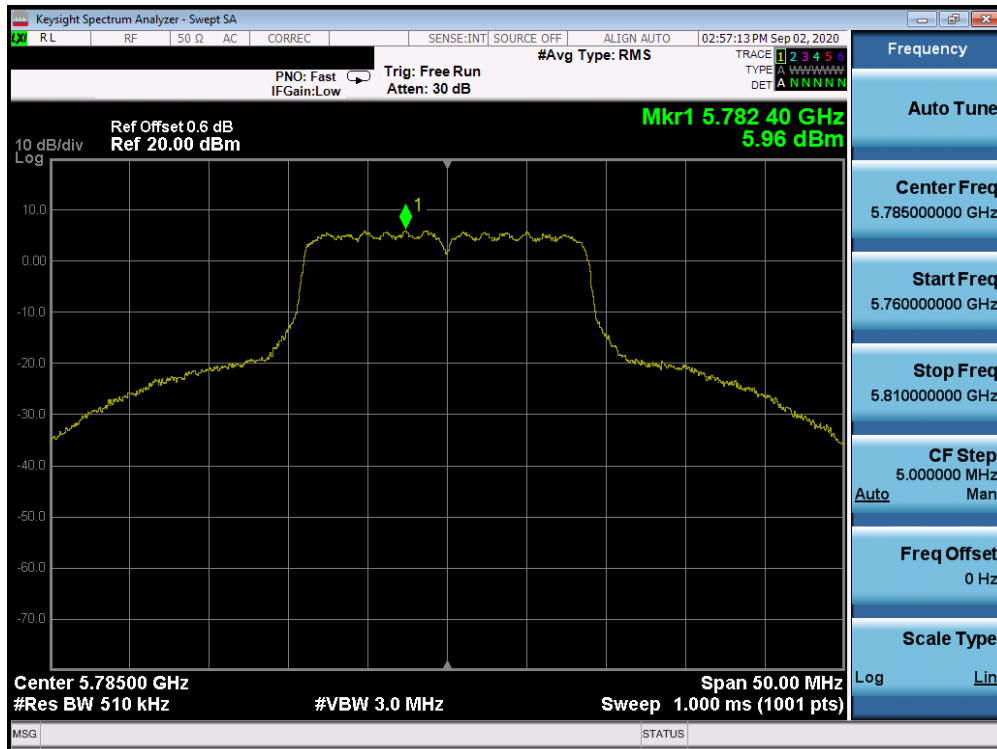
Plot 7-295. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 149)



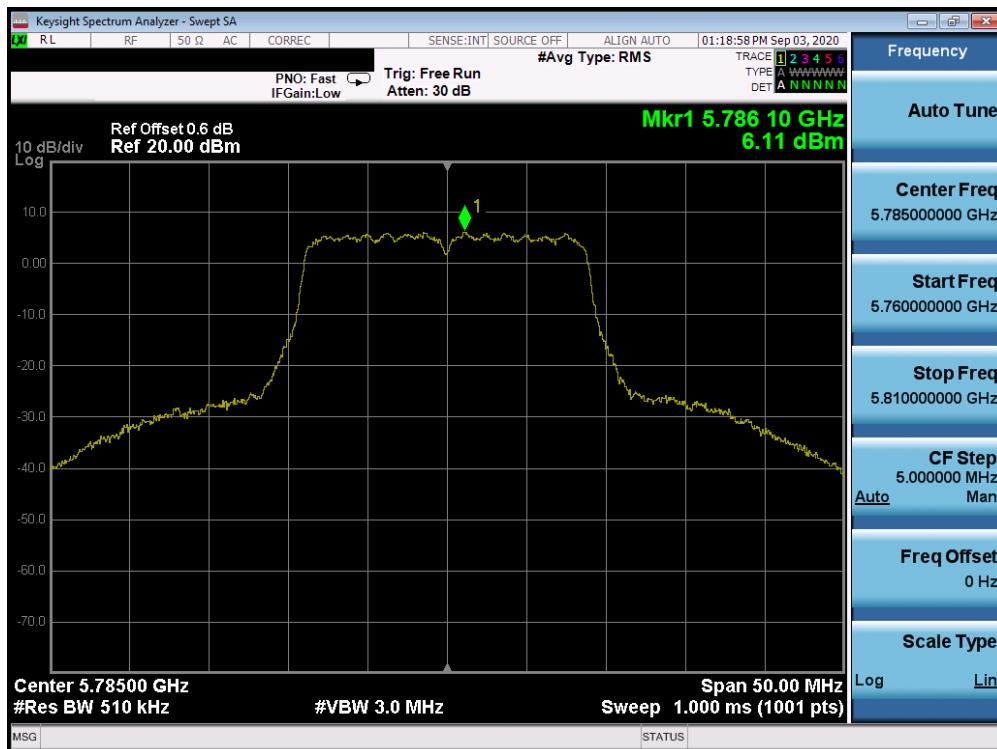
Plot 7-296. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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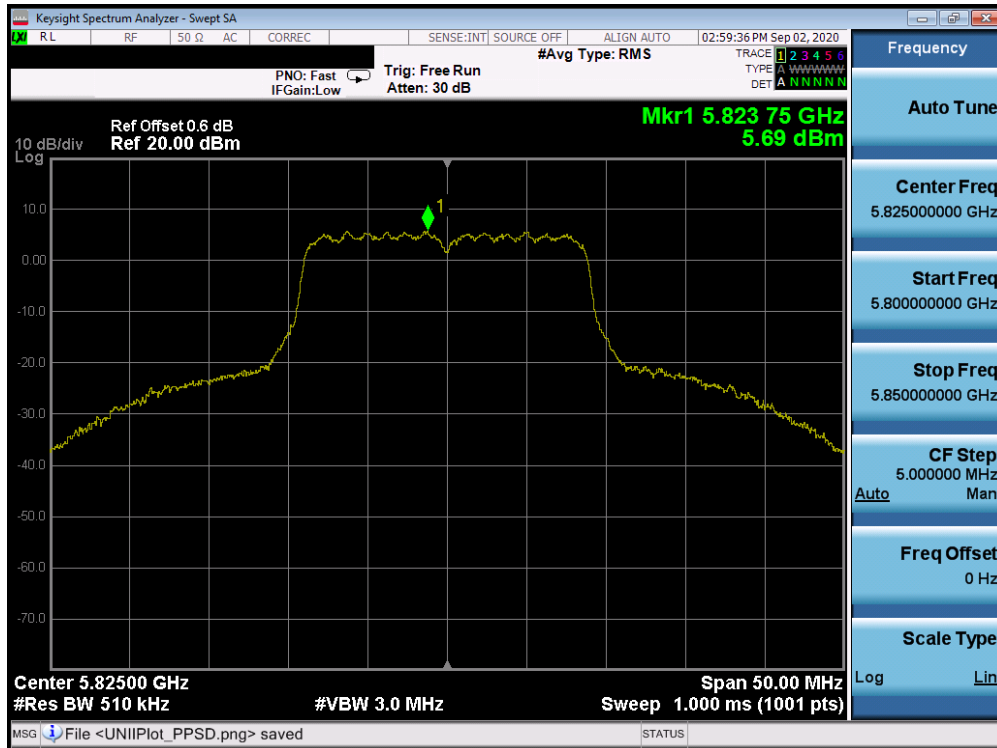


Plot 7-297. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

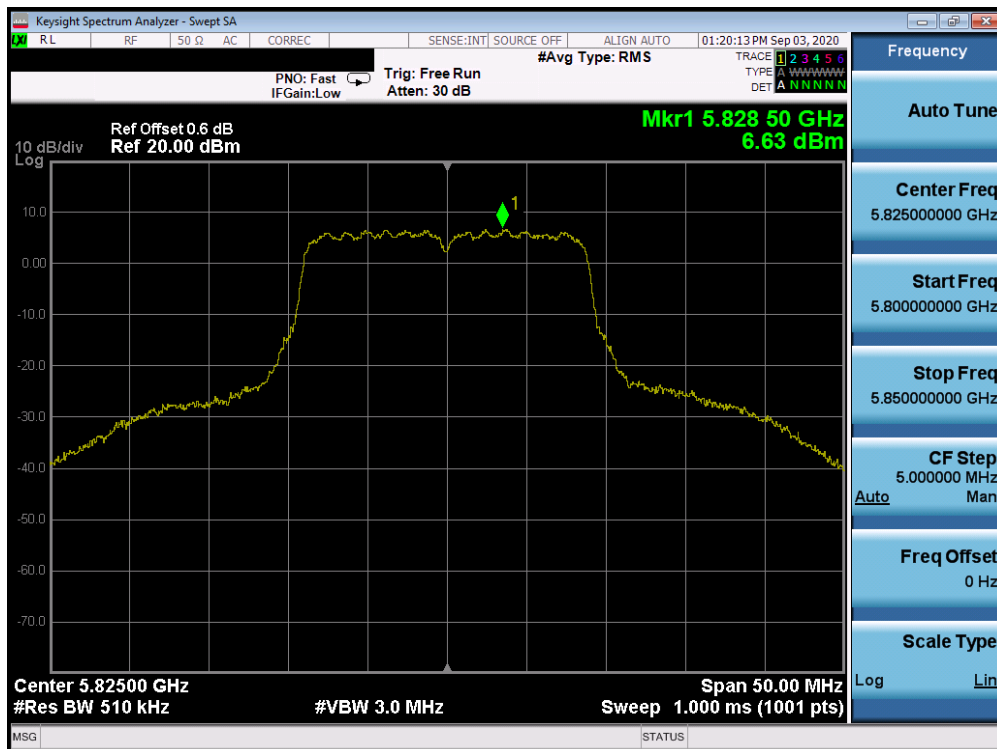


Plot 7-298. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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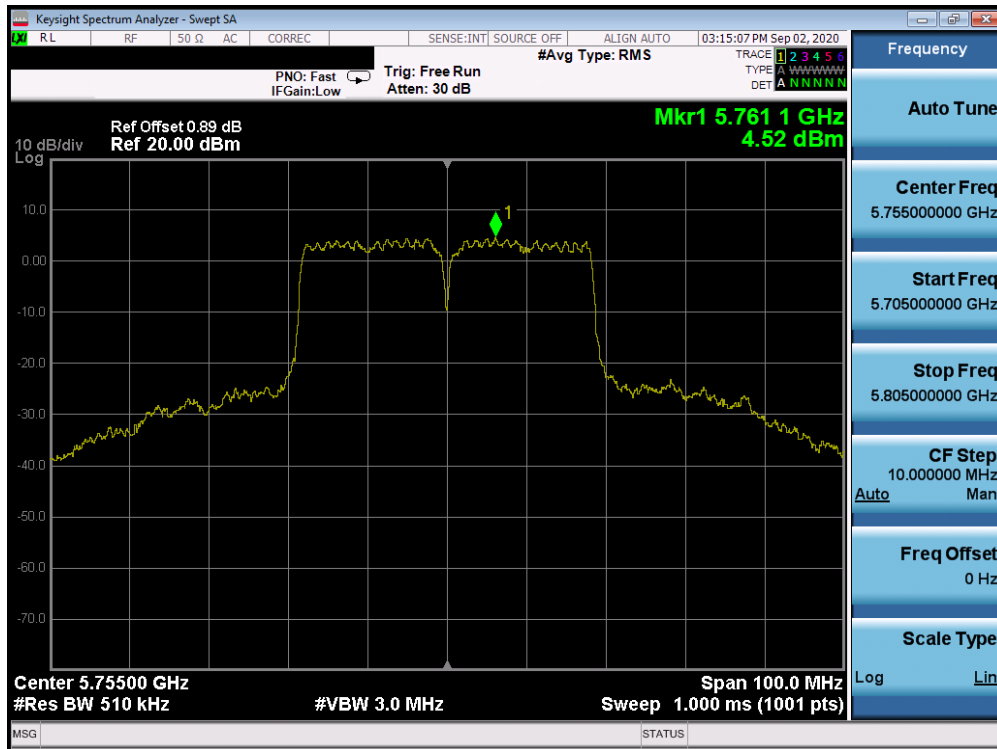


Plot 7-299. Power Spectral Density Plot CDD Diversity Antenna 2b (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

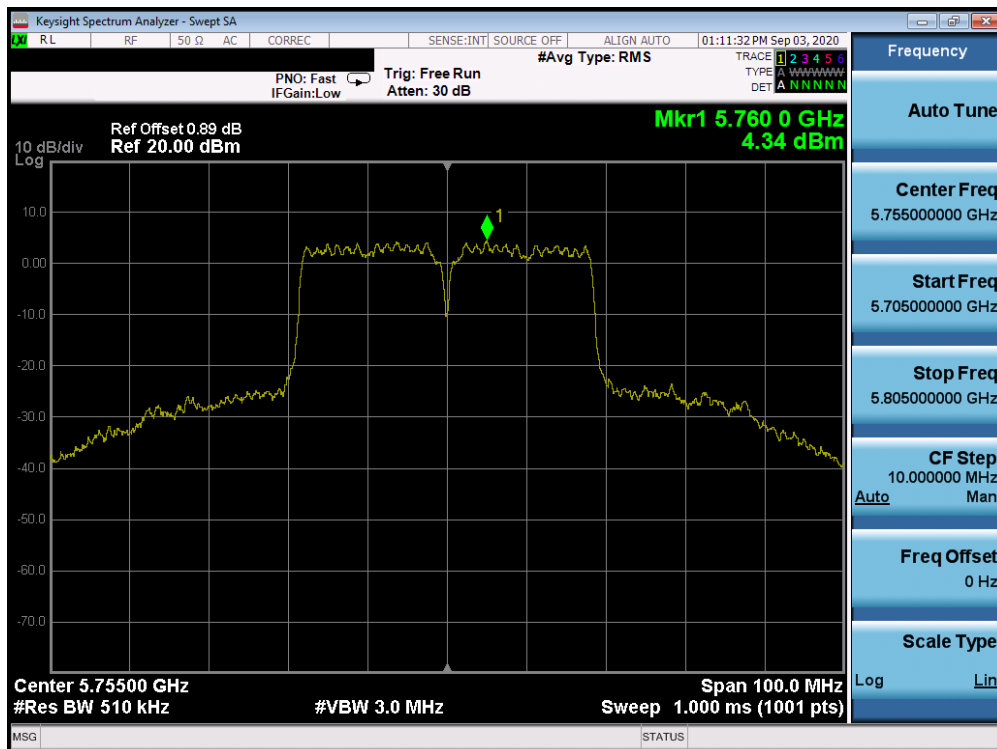


Plot 7-300. Power Spectral Density Plot CDD Diversity Antenna 1b (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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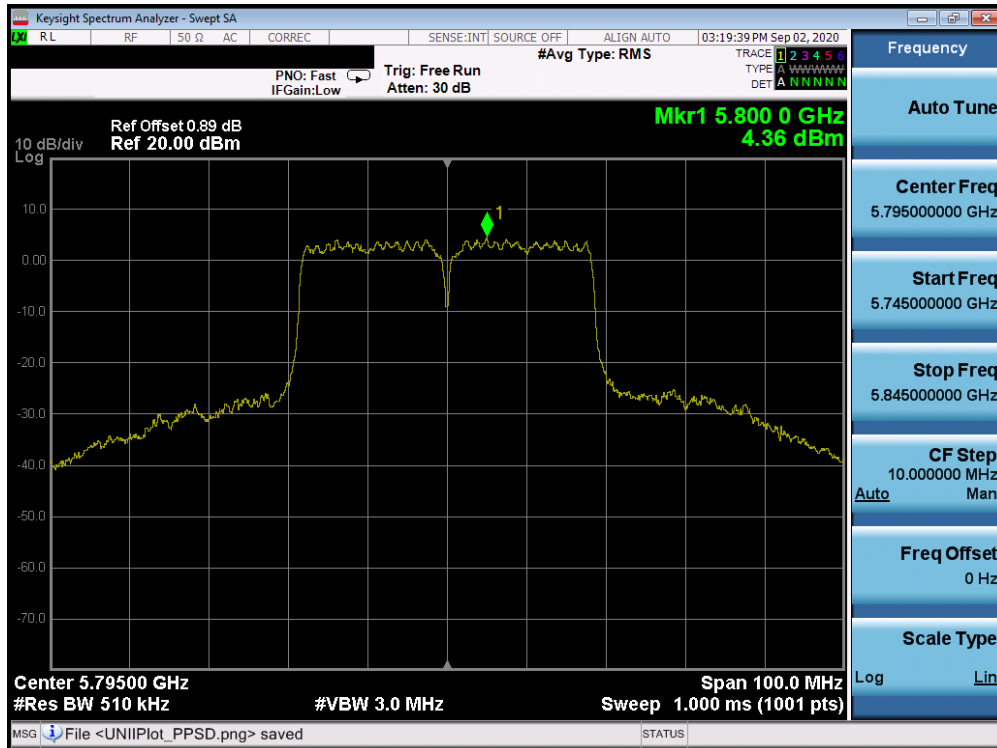


Plot 7-301. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

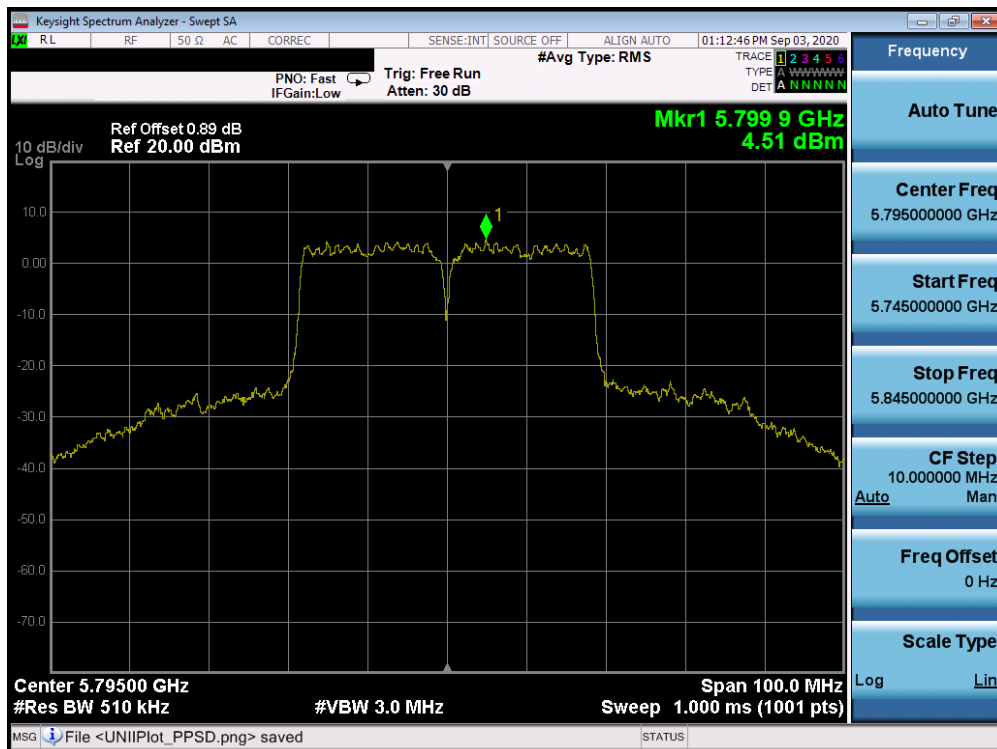


Plot 7-302. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 198 of 344

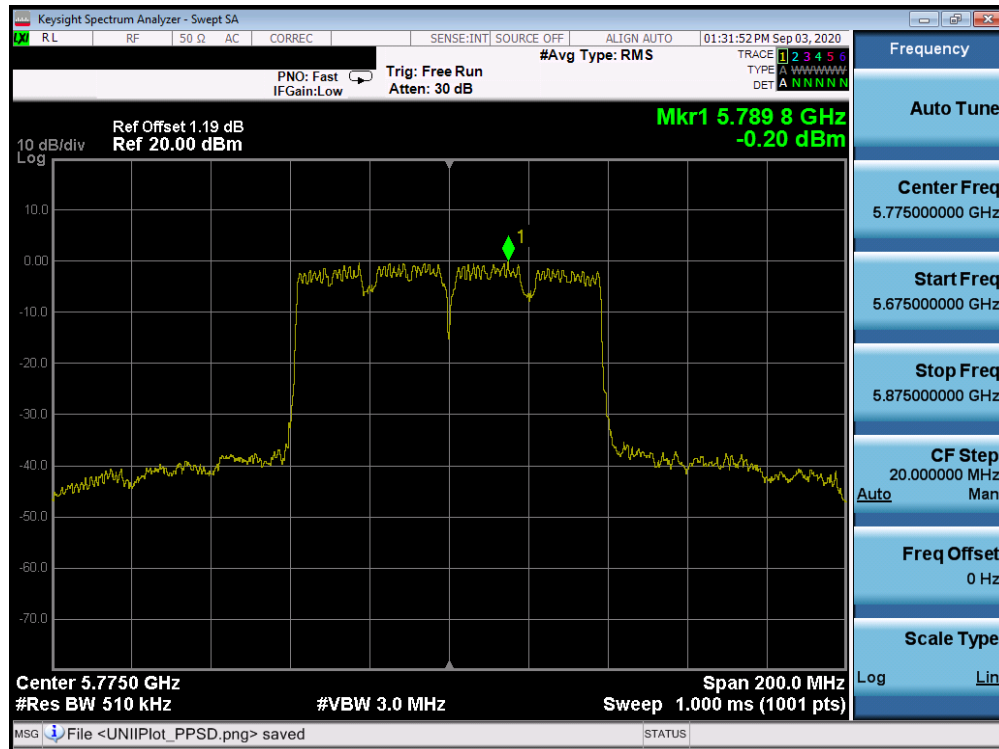


Plot 7-303. Power Spectral Density Plot CDD Diversity Antenna 2b (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

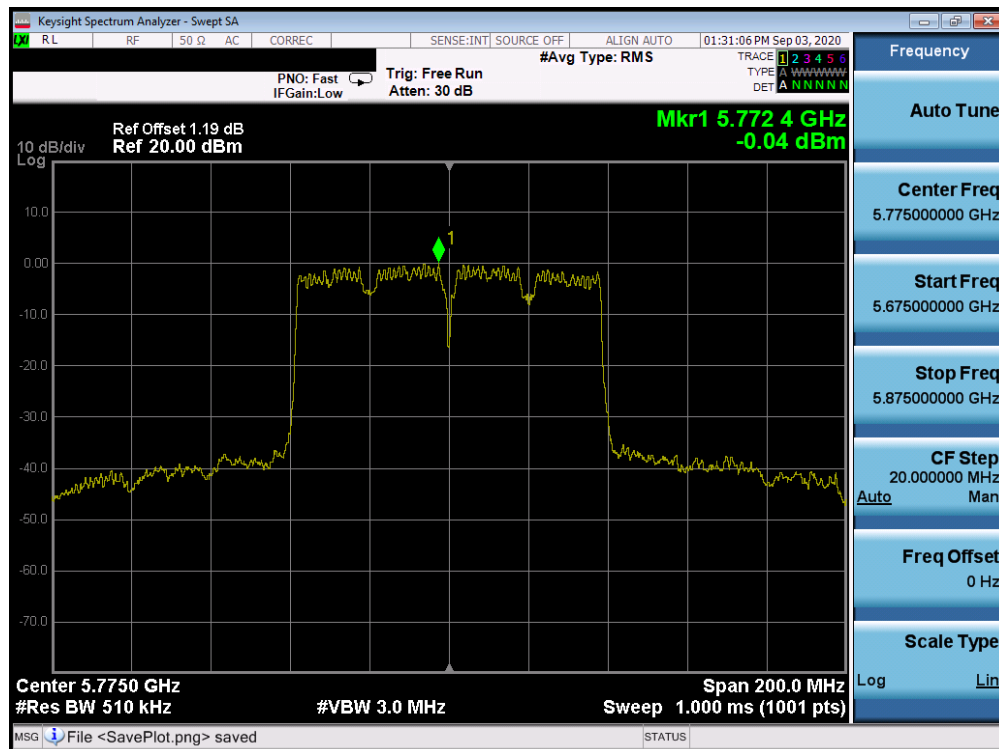


Plot 7-304. Power Spectral Density Plot CDD Diversity Antenna 1b (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-305. Power Spectral Density Plot CDD Diversity Antenna 2b (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-306. Power Spectral Density Plot CDD Diversity Antenna 1b (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: BCGA2072	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

**Sample CDD/SDM Primary Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.88 dBm for Antenna 2b and 5.19 dBm for Antenna 2a.

Antenna 2b + Antenna 2a = CDD/SDM Primary

$$(5.88 \text{ dBm} + 5.19 \text{ dBm}) = (3.87 \text{ mW} + 3.30 \text{ mW}) = 7.18 \text{ mW} = 8.56 \text{ dBm}$$

**Sample e.i.r.p Power Spectral Density Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 8.56 dBm with directional gain of 1.42 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$8.56 \text{ dBm} + 1.42 \text{ dBi} = 4.44 \text{ dBm}$$

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## 7.6 Radiated Spurious Emissions – Above 1GHz

**§15.407(b) §15.205 §15.209; RSS-Gen [8.9]**

### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.***

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-57 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

**Table 7-57. Radiated Limits**

### **Test Procedures Used**

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5  
 KDB 789033 D02 v02r01 – Section G

### **Test Settings**

#### **Average Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

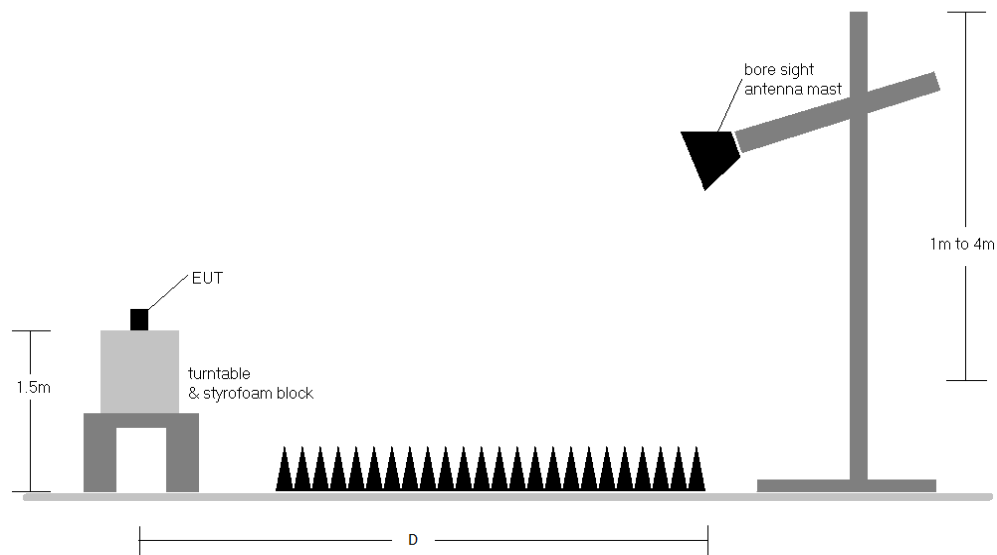
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### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup**

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## Test Notes

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-57.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-57. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB $\mu$ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
9. All data rates were investigated and only the worse case is reported
10. The unit was tested with all possible modes and only the highest emission is reported.
11. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
12. Spot-check testing of the following data was performed and confirmed to be within guidance per Data Re-use KDB defined by the FCC.

## Sample Calculations

### Determining Spurious Emissions Levels

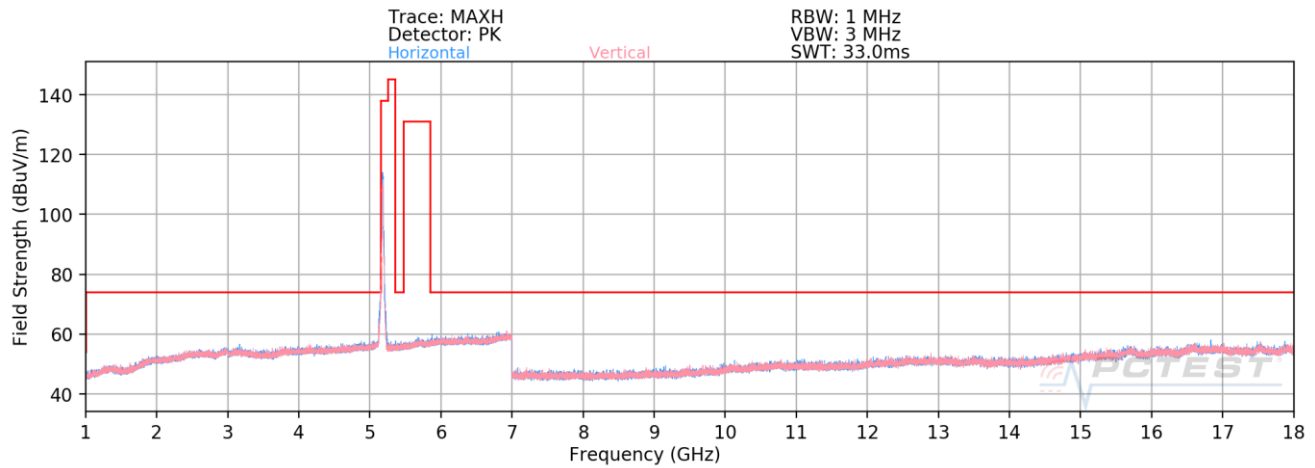
- Field Strength Level [dB $\mu$ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB $\mu$ V/m] – Limit [dB $\mu$ V/m]

### Radiated Band Edge Measurement Offset

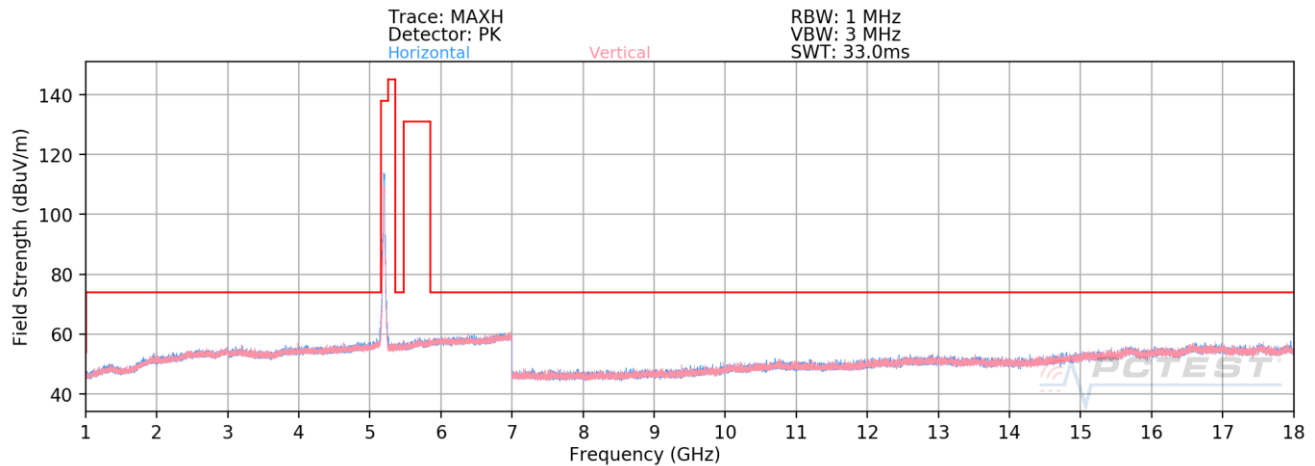
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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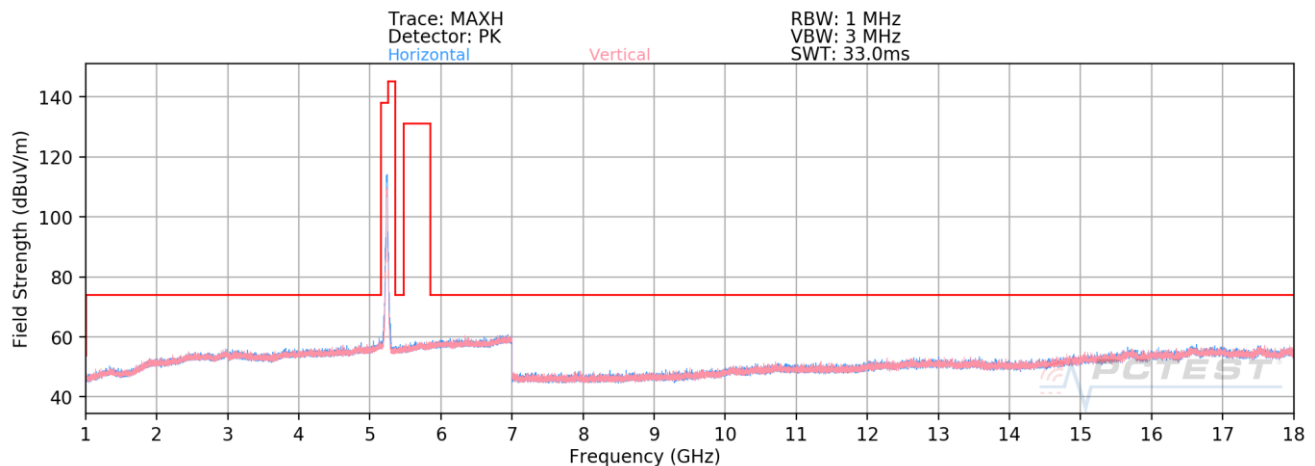
## 7.6.1 Antenna 2b Radiated Spurious Emission



**Plot 7-307. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 1 Ch. 36)**

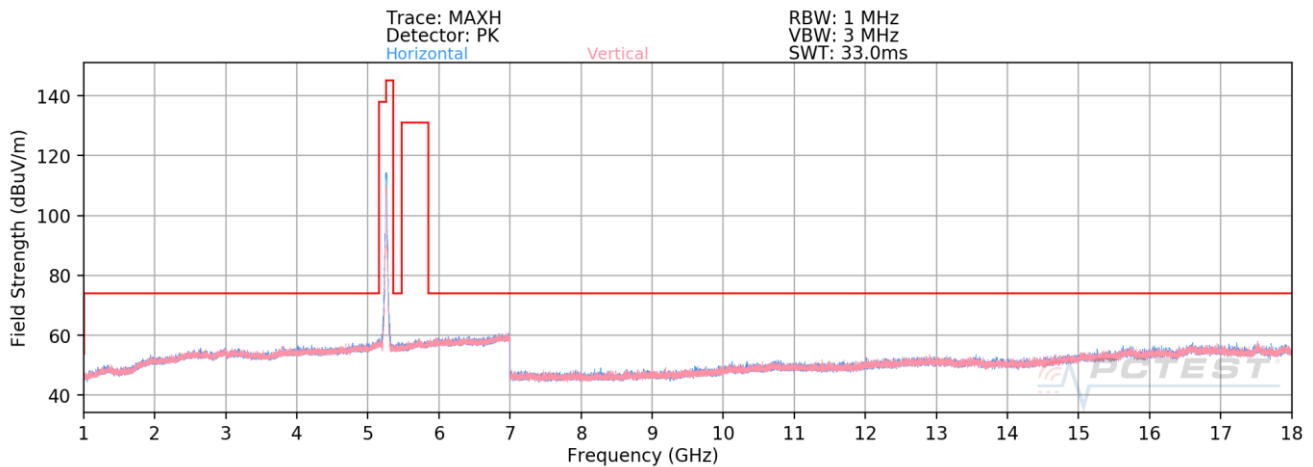


**Plot 7-308. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 1 Ch. 40)**

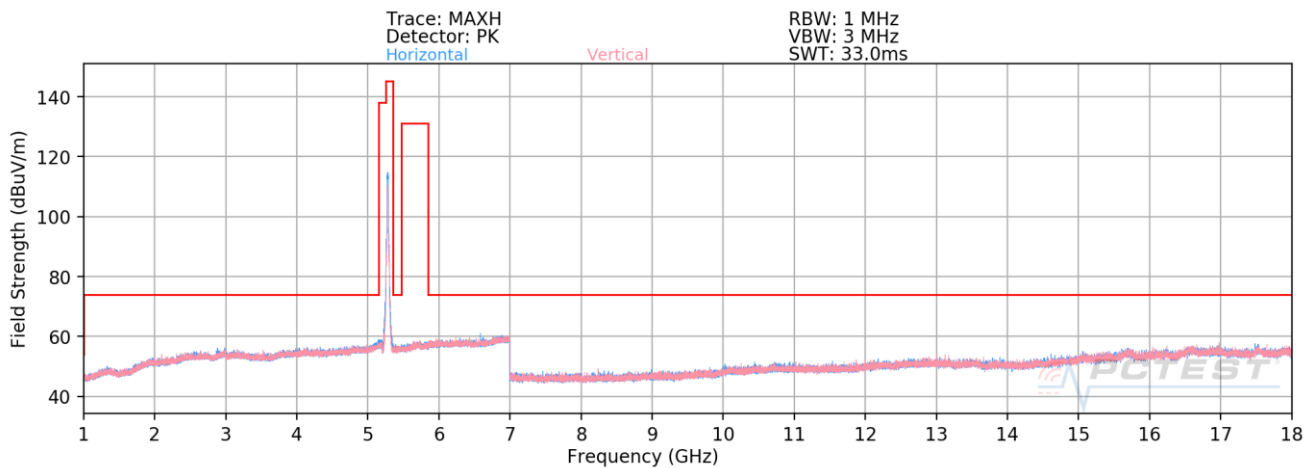


**Plot 7-309. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 1 Ch. 48)**

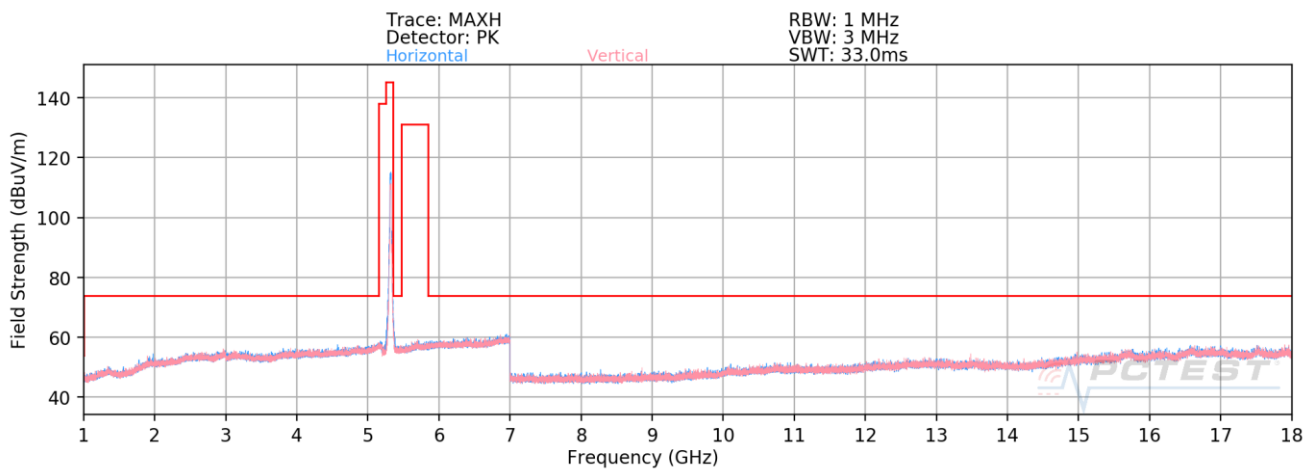
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**Plot 7-310. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 2A Ch. 52)**



**Plot 7-311. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 2A Ch. 56)**



**Plot 7-312. Radiated Spurious Emissions above 1GHz Antenna 2b (802.11n – UNII 2A Ch. 64)**

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