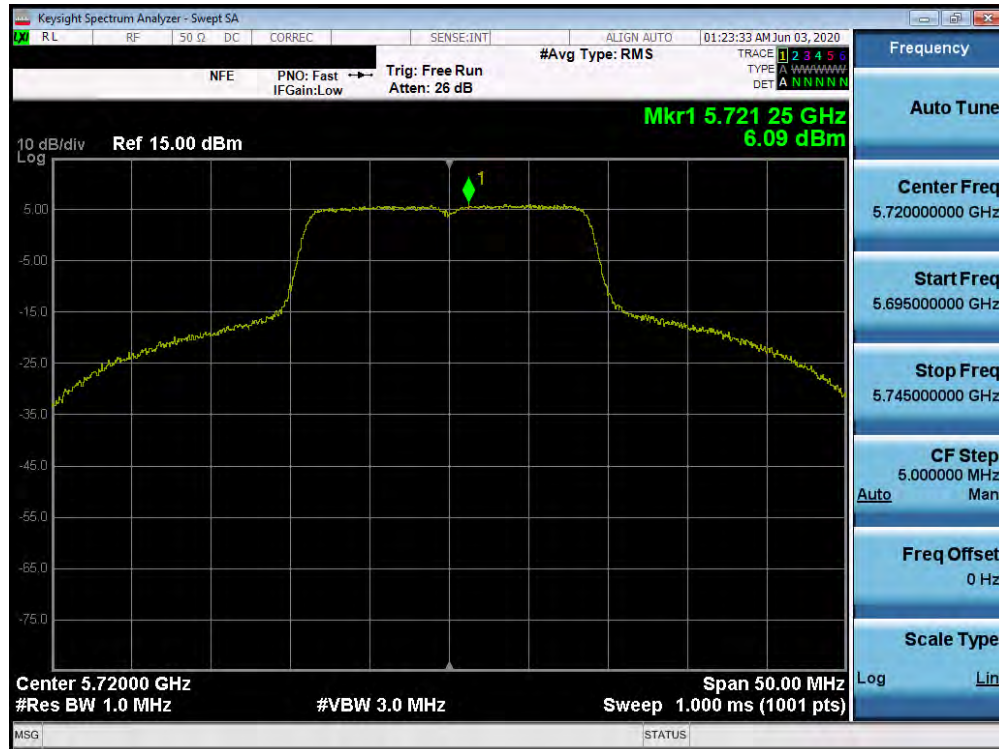
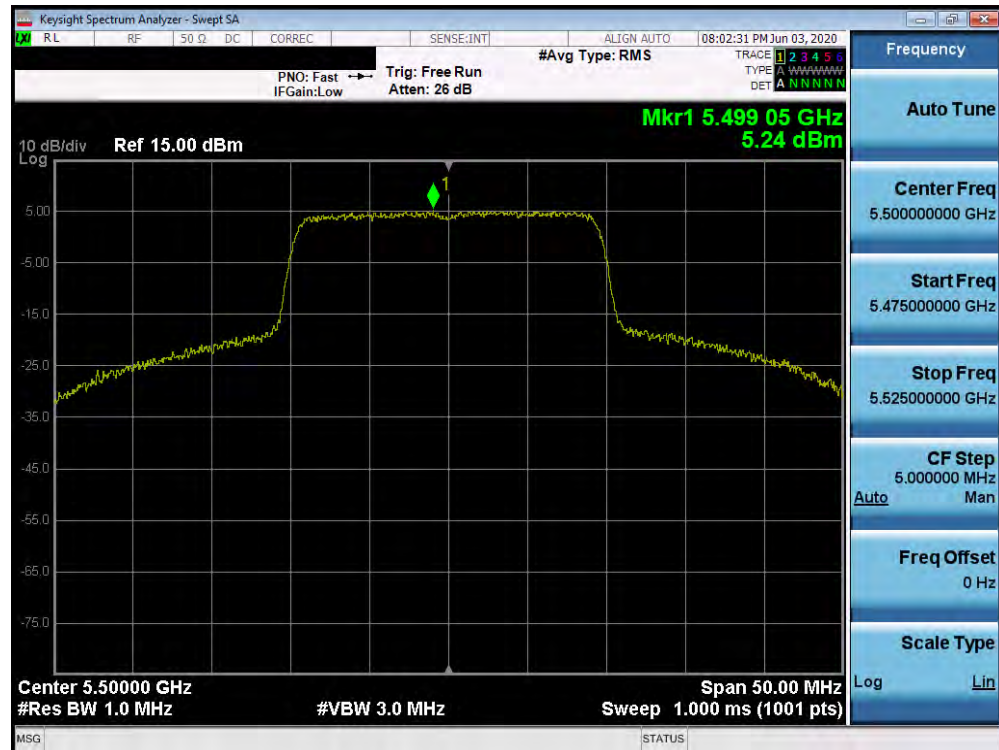


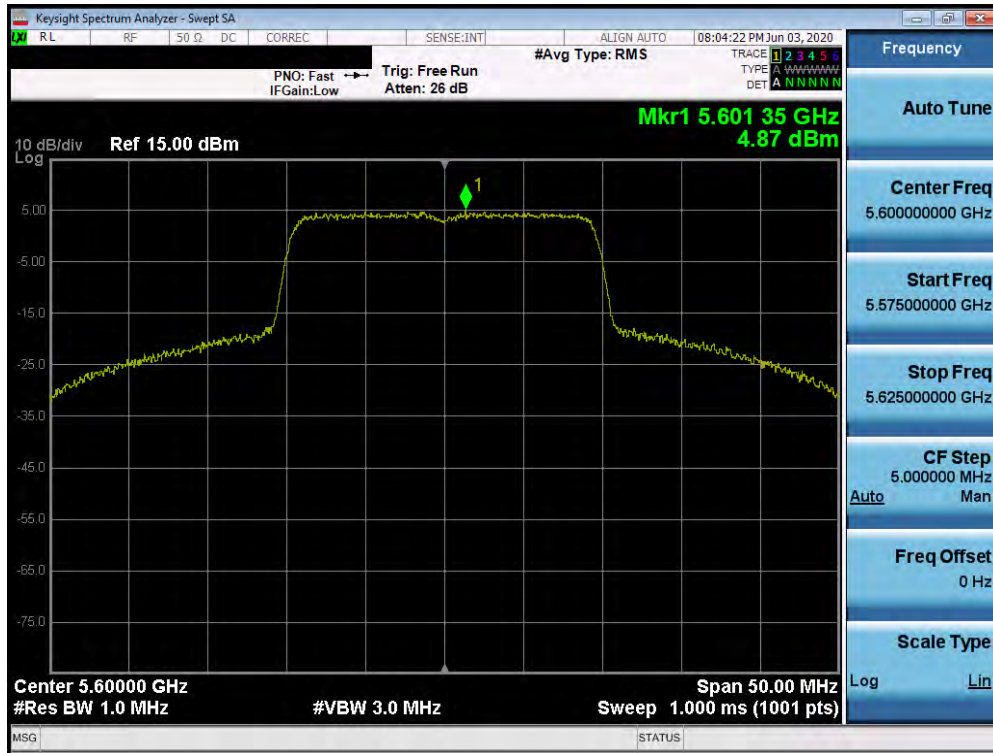


Plot 7-162. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

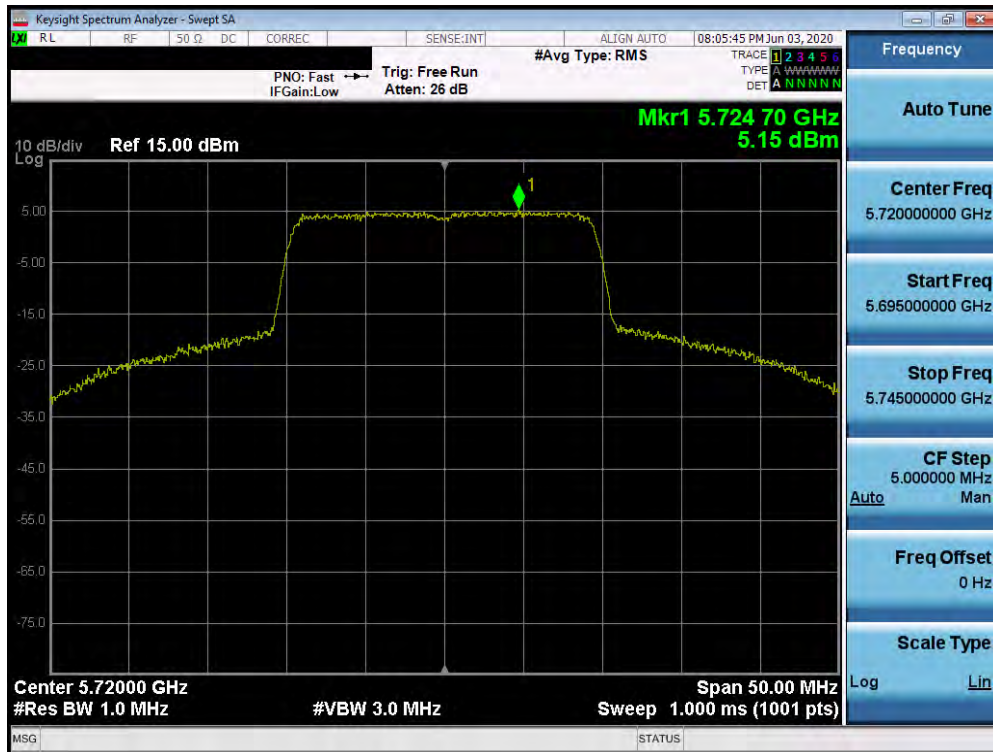


Plot 7-163. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 118 of 234

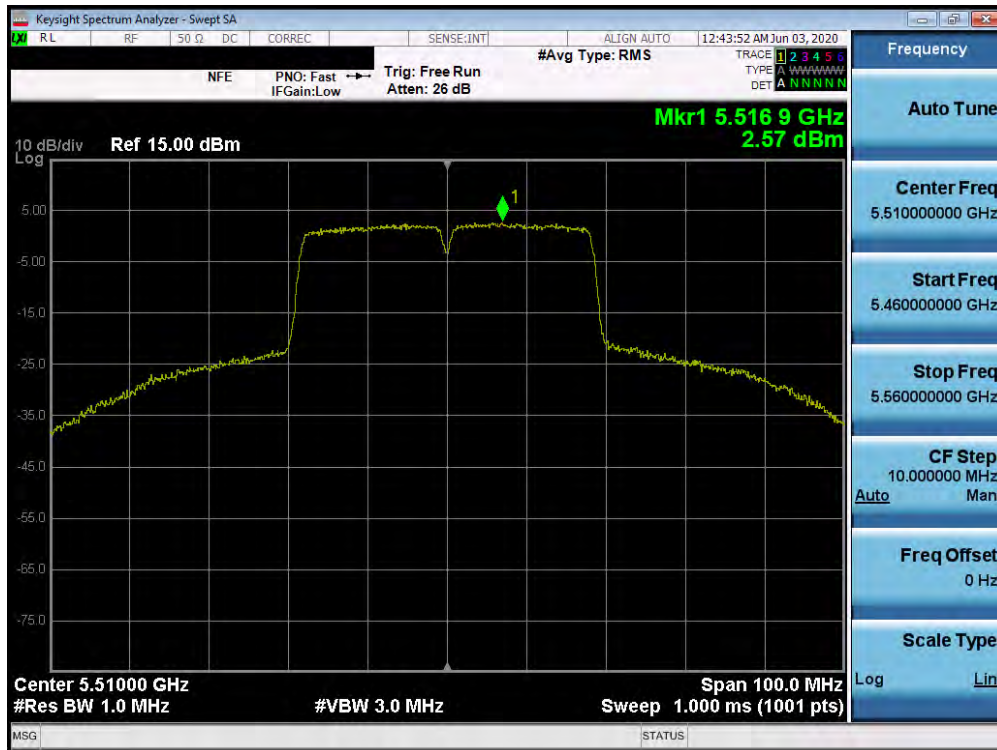


Plot 7-164. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

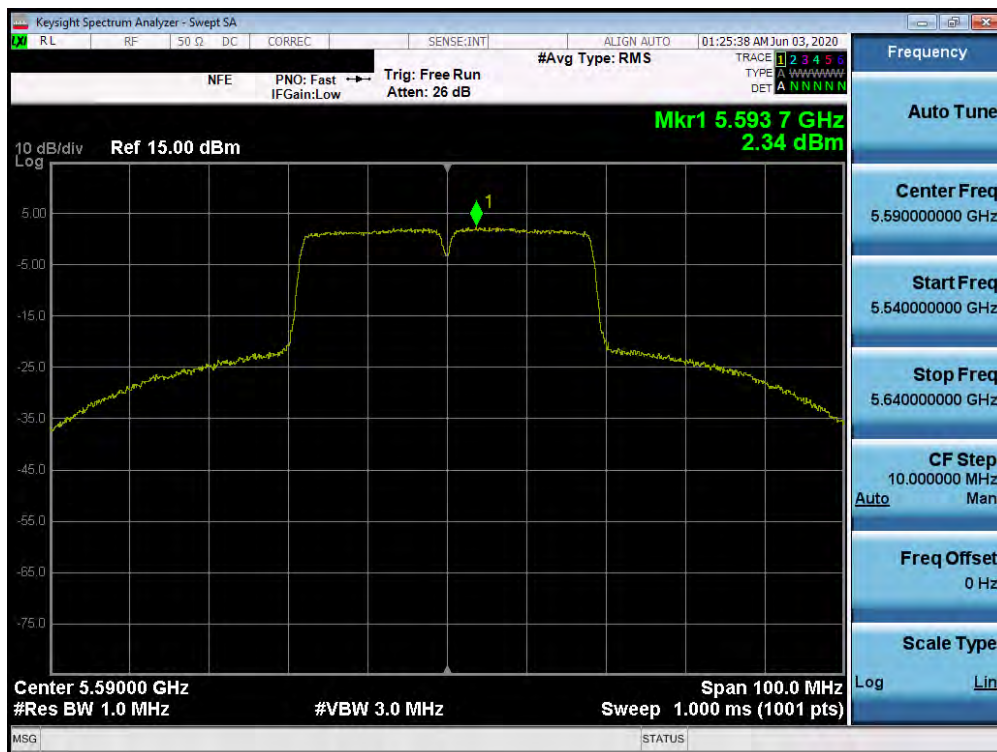


Plot 7-165. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 119 of 234

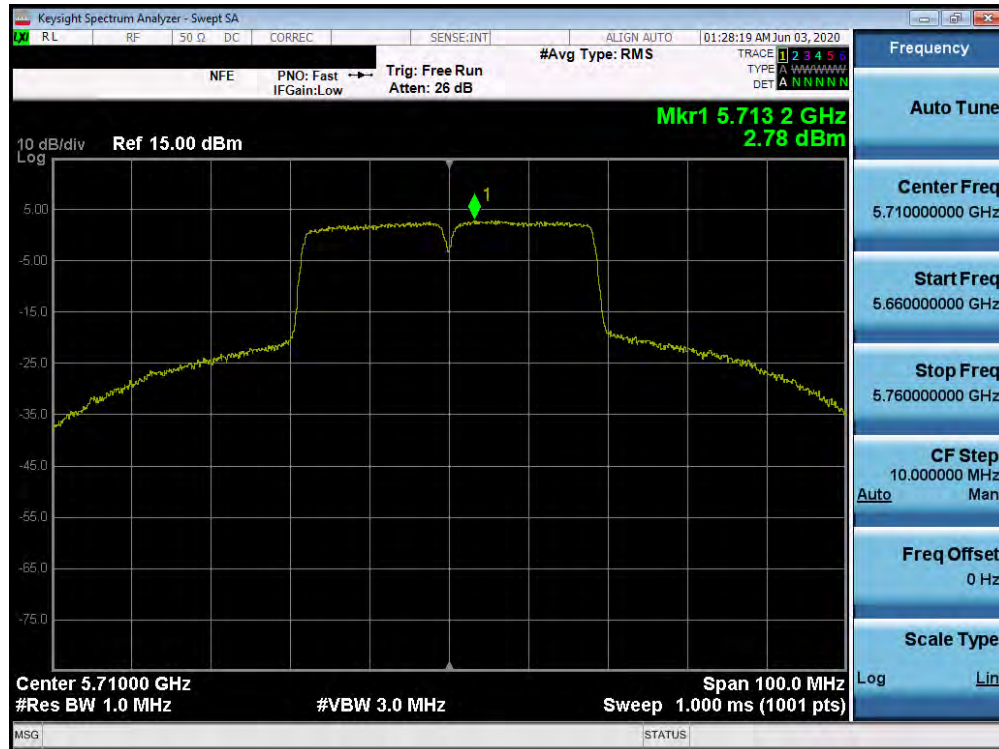


Plot 7-166. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

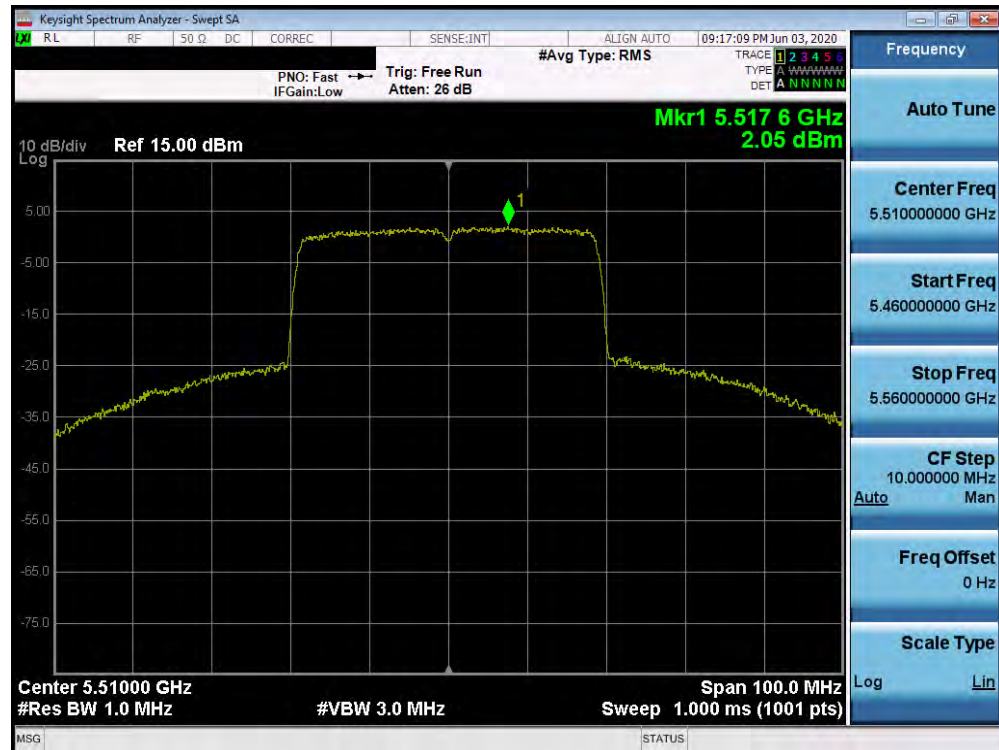


Plot 7-167. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 120 of 234

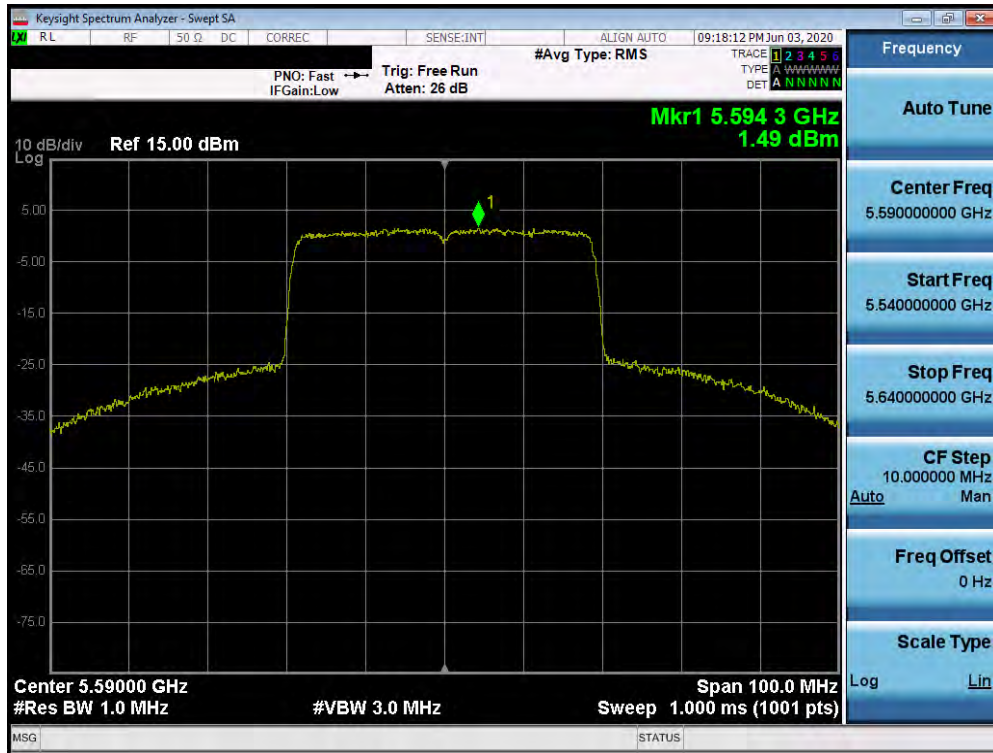


Plot 7-168. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

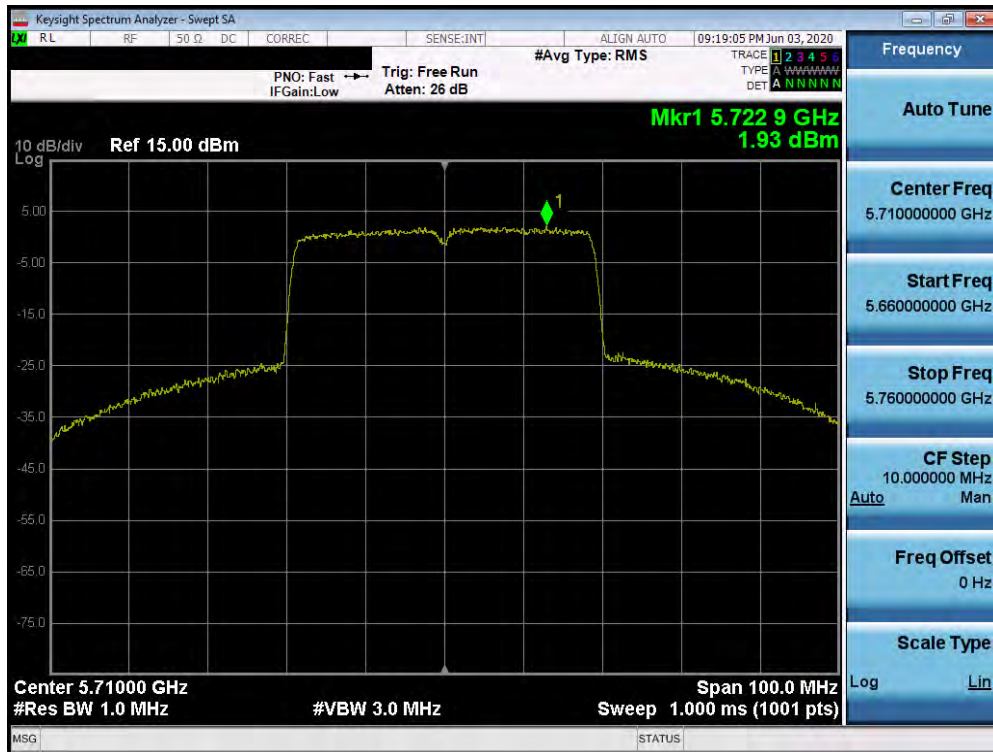


Plot 7-169. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 121 of 234

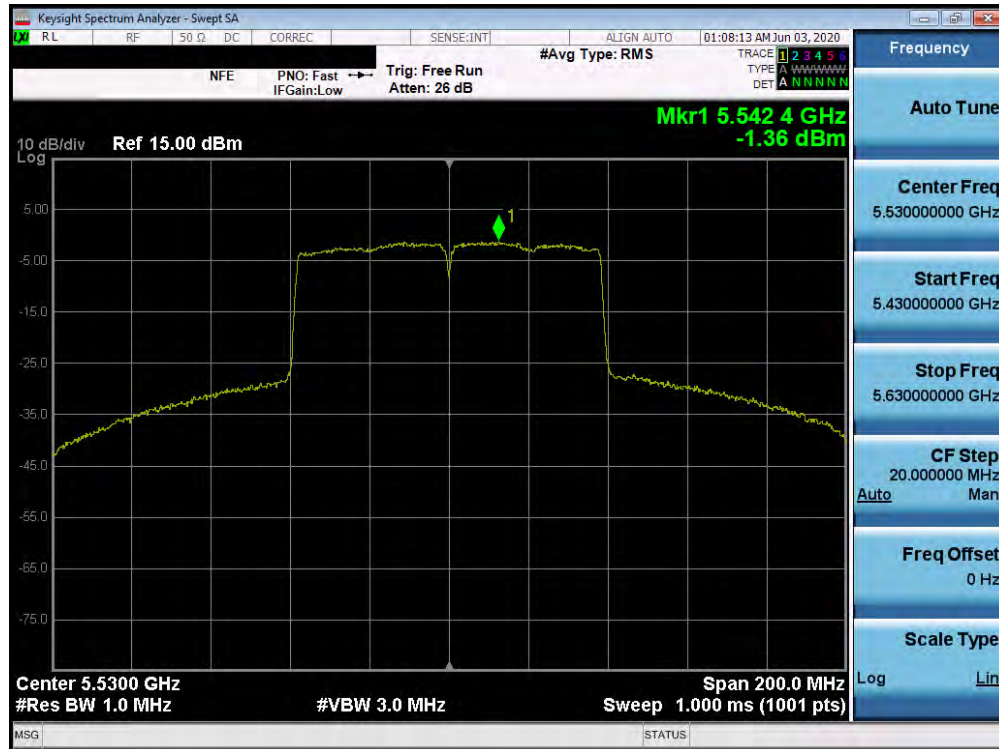


Plot 7-170. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

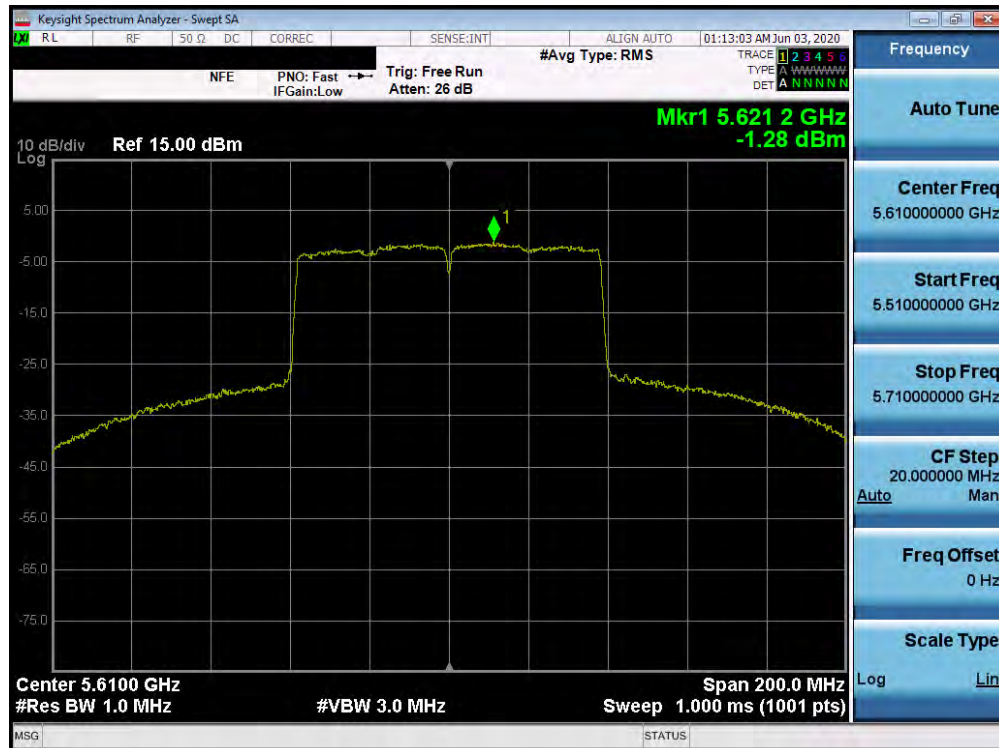


Plot 7-171. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 122 of 234

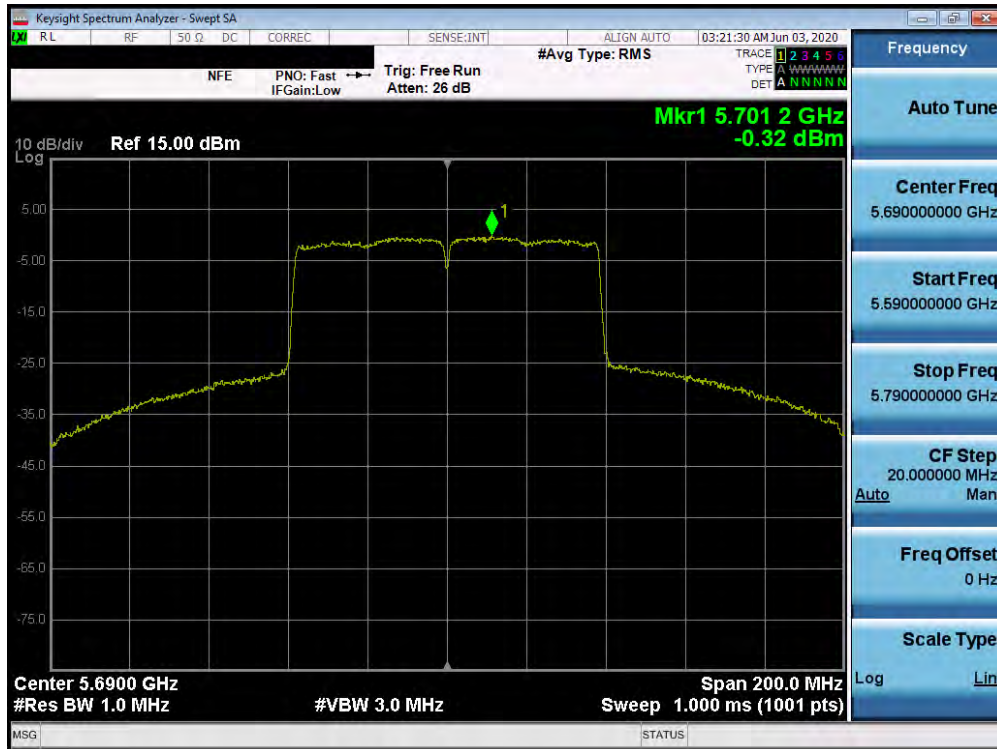


Plot 7-172. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

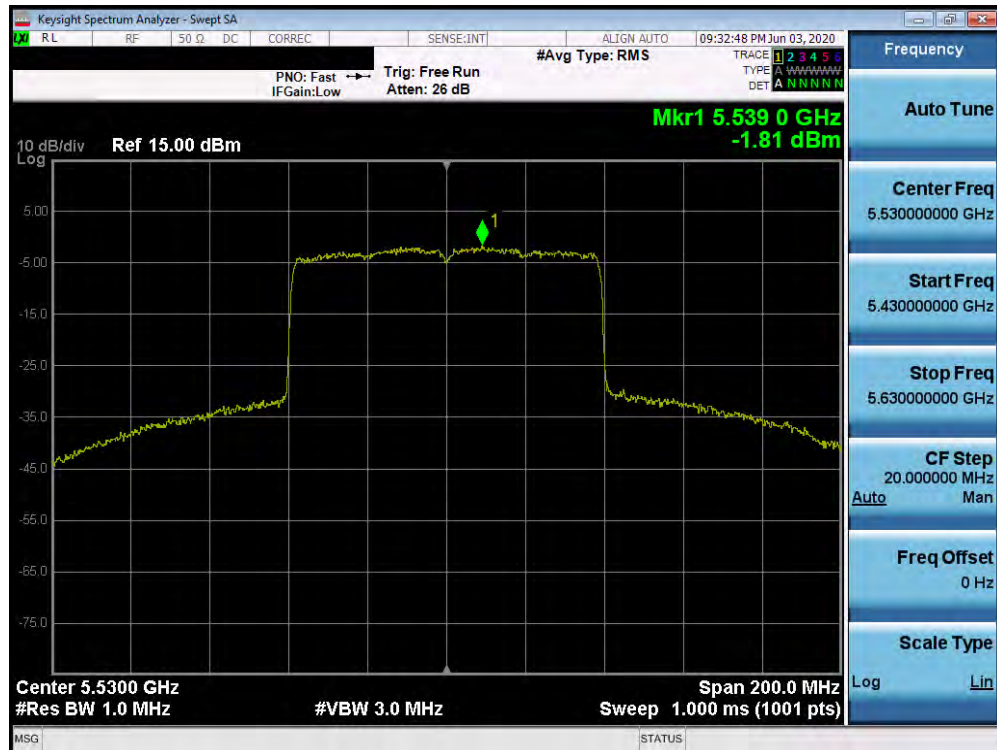


Plot 7-173. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 123 of 234

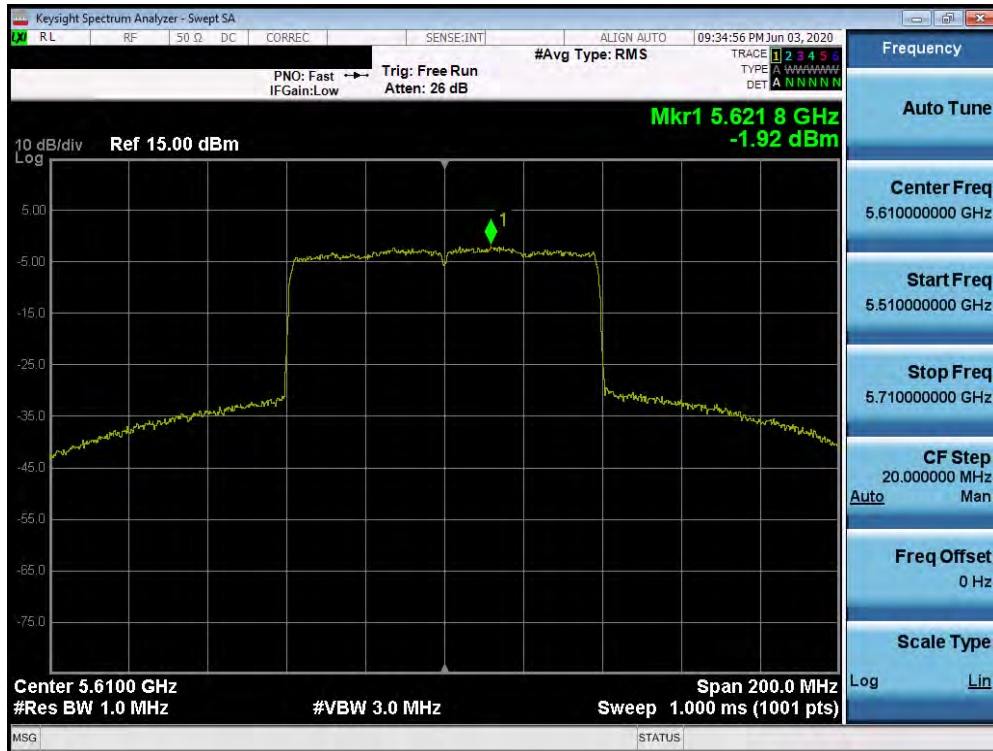


Plot 7-174. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

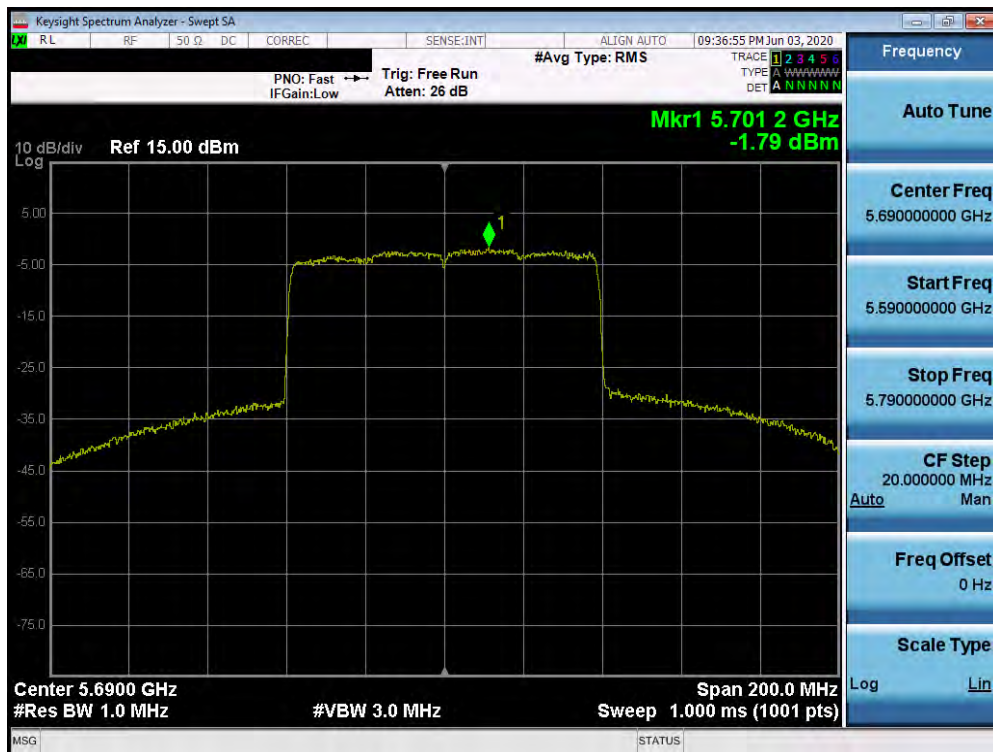


Plot 7-175. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 124 of 234



Plot 7-176. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

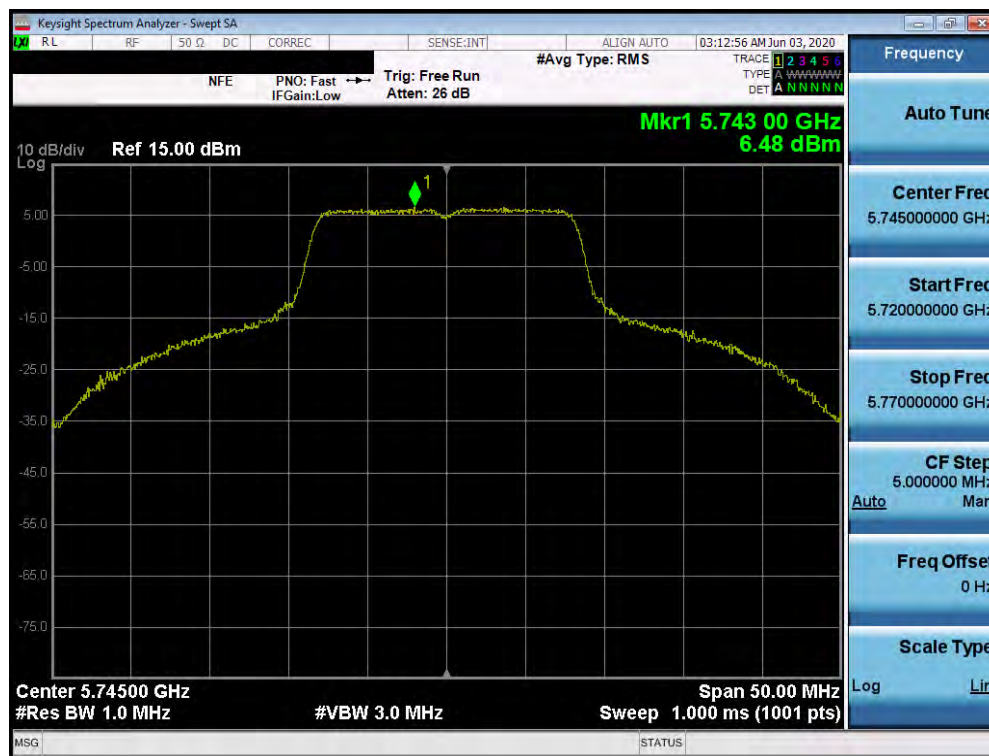


Plot 7-177. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 125 of 234

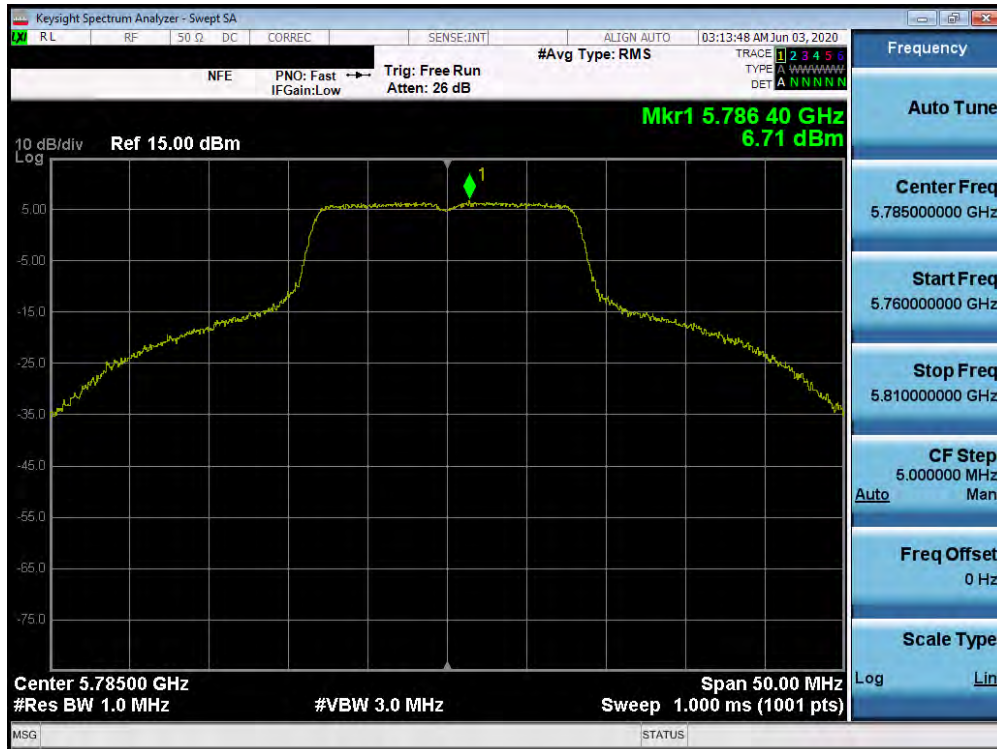
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	6.48	30.0	-23.52
	5785	157	a	6	6.71	30.0	-23.29
	5825	165	a	6	5.89	30.0	-24.11
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.19	30.0	-23.81
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	5.98	30.0	-24.02
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	5.51	30.0	-24.49
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.41	30.0	-24.59
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.30	30.0	-24.70
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.53	30.0	-24.47
	5755	151	n (40MHz)	13.5/15 (MCS0)	2.60	30.0	-27.40
	5795	159	n (40MHz)	13.5/15 (MCS0)	2.45	30.0	-27.55
	5755	151	ax (40MHz)	13.5/15 (MCS0)	1.86	30.0	-28.14
	5795	159	ax (40MHz)	13.5/15 (MCS0)	1.68	30.0	-28.32
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-14.20	30.0	-44.20
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-2.14	30.0	-32.14

Table 7-23. Band 3 Conducted Power Spectral Density Measurements SISO ANT1

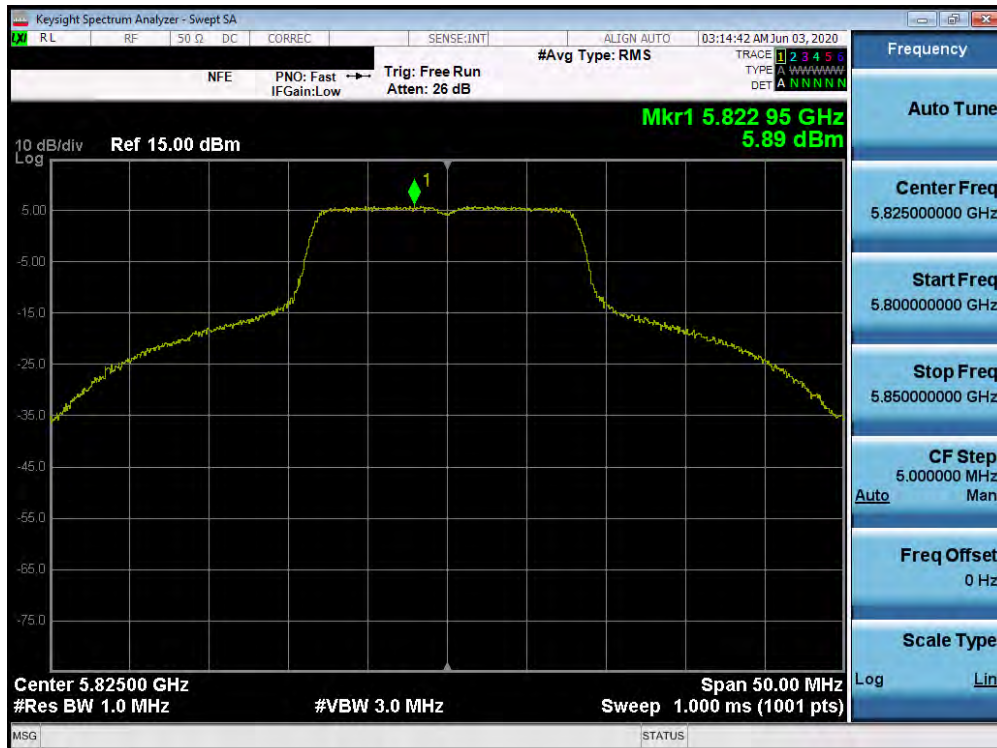


Plot 7-178. Power Spectral Density Plot SISO ANT1 (802.11a) (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 126 of 234

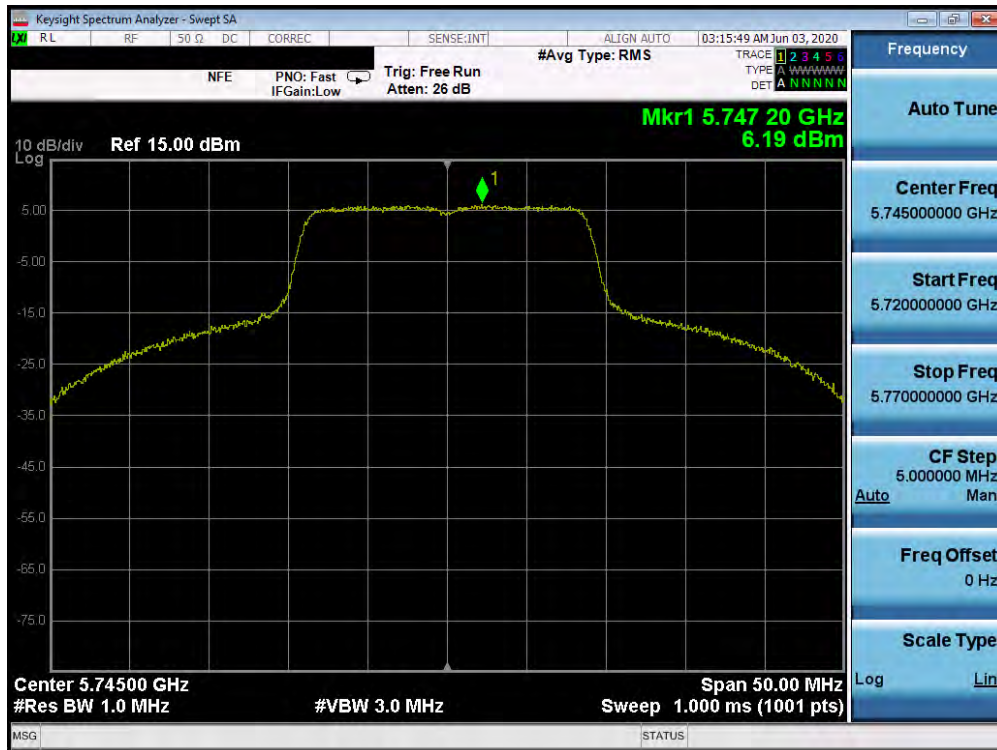


Plot 7-179. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)

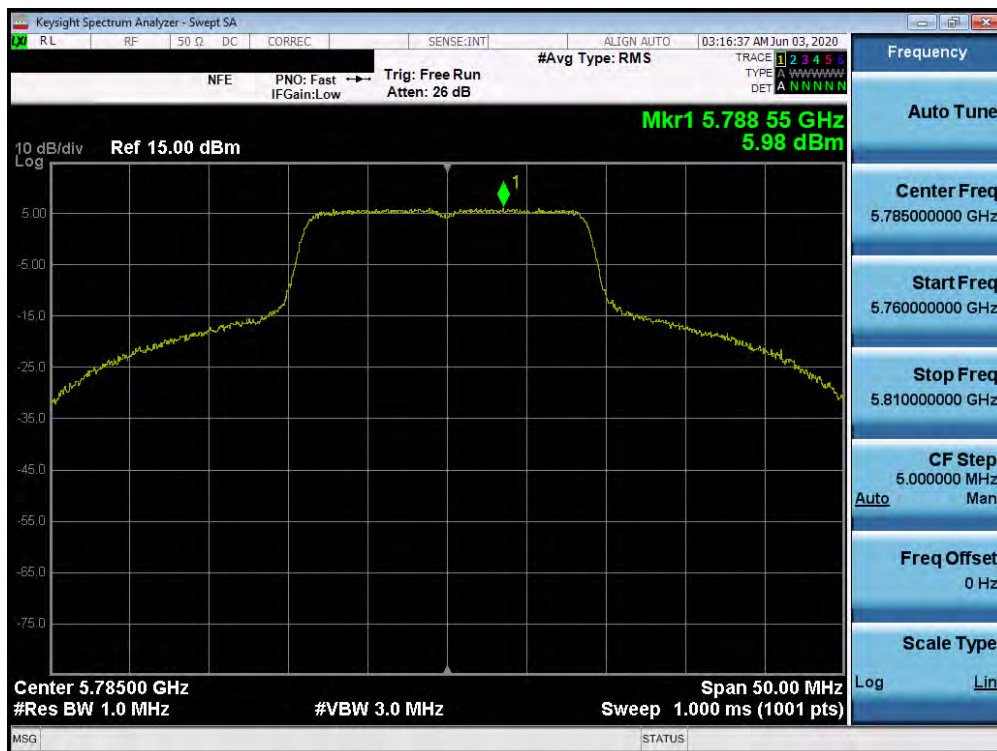


Plot 7-180. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 127 of 234

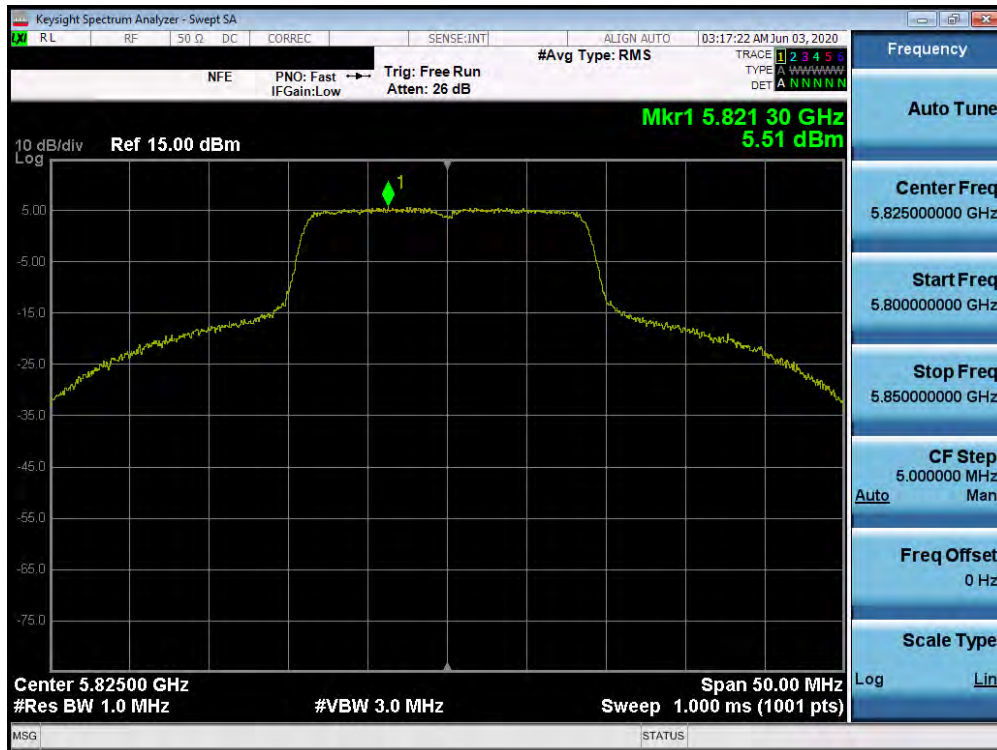


Plot 7-181. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

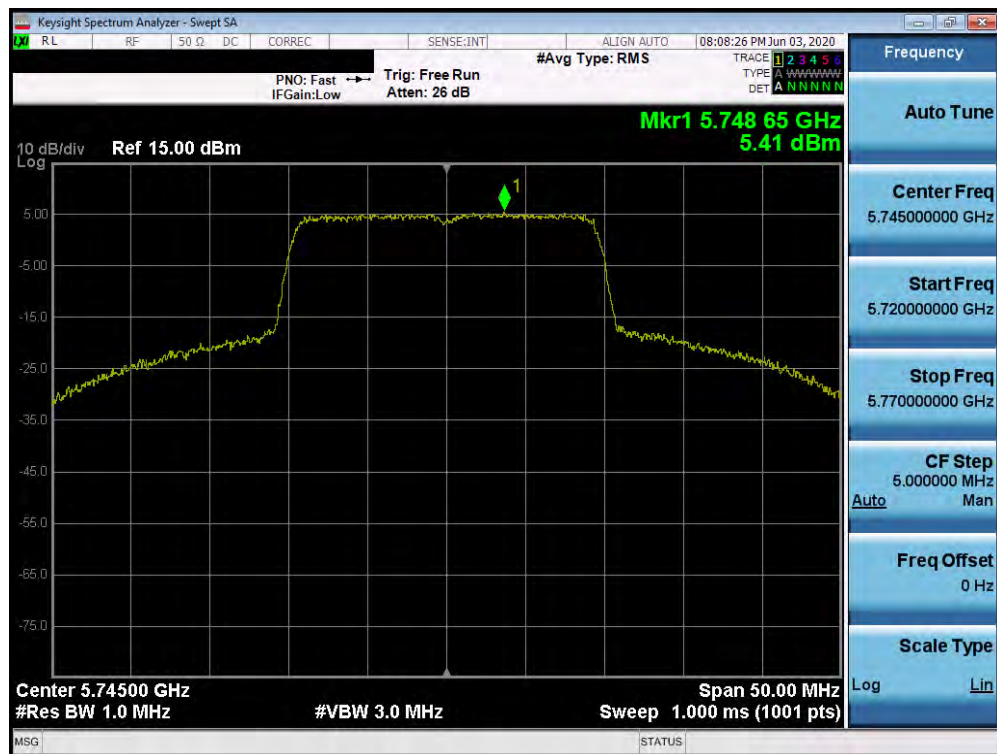


Plot 7-182. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 128 of 234

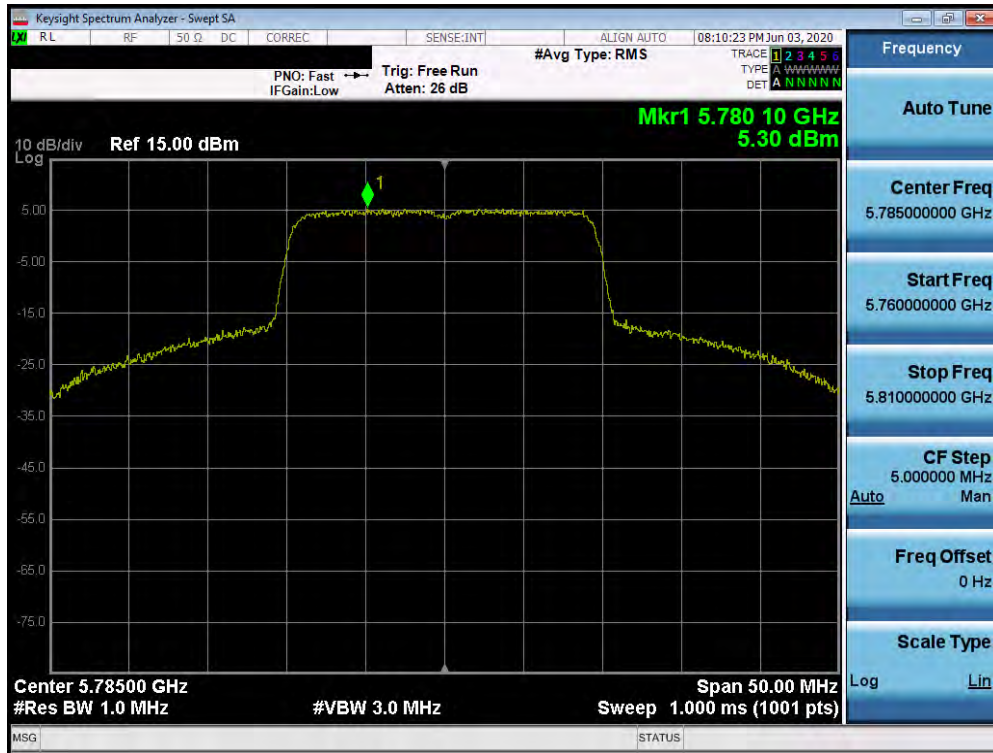


Plot 7-183. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

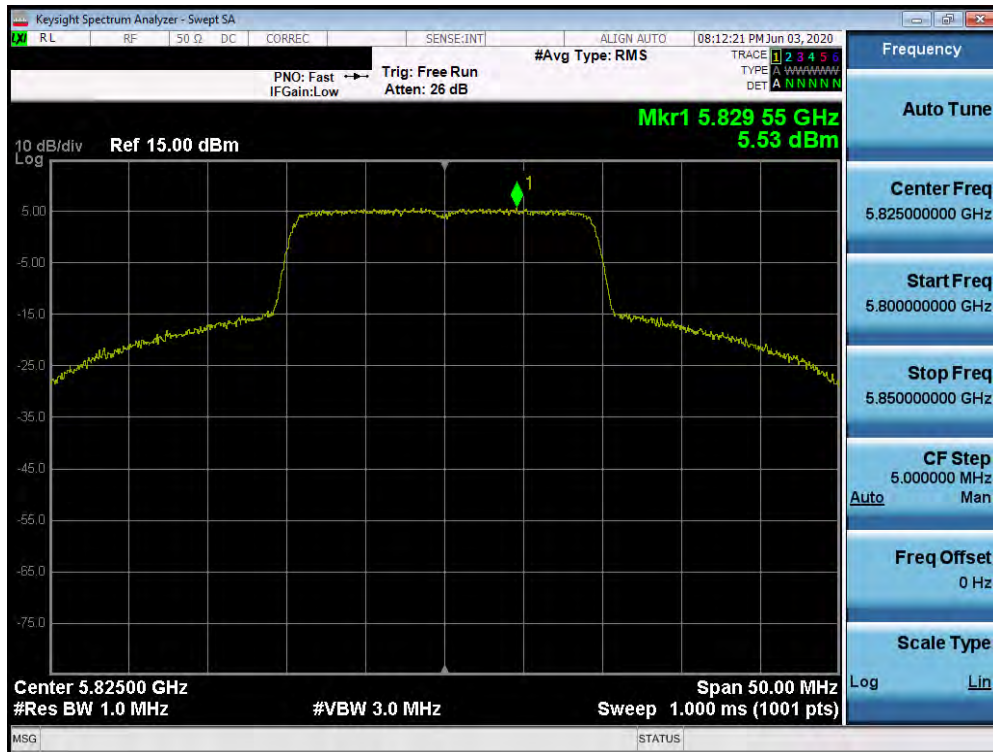


Plot 7-184. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 129 of 234

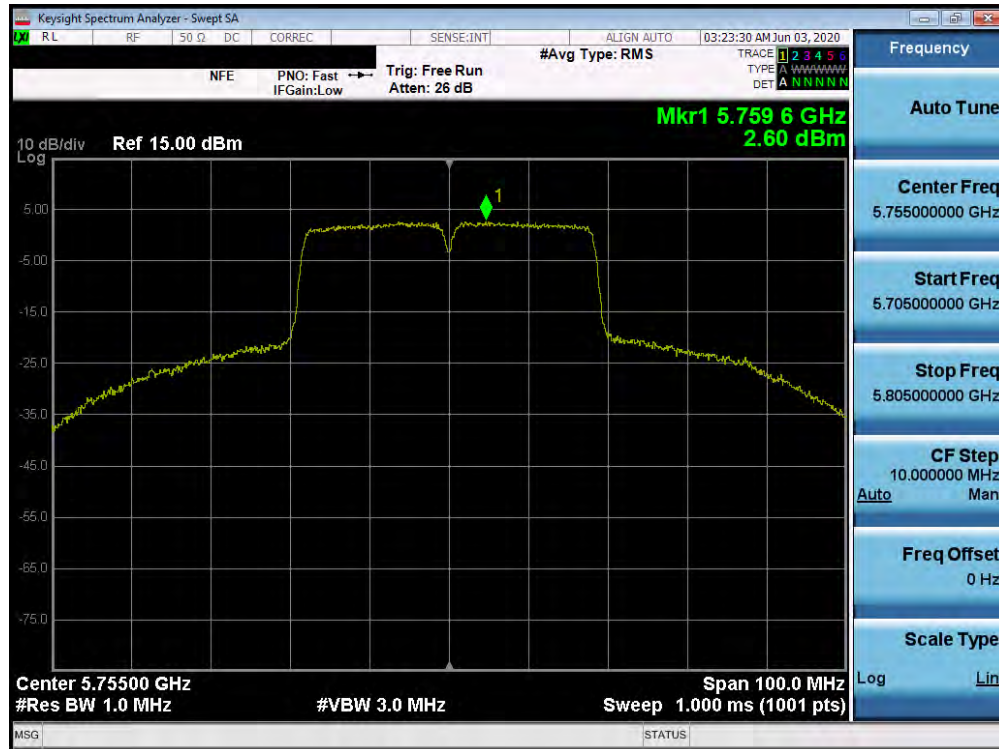


Plot 7-185. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

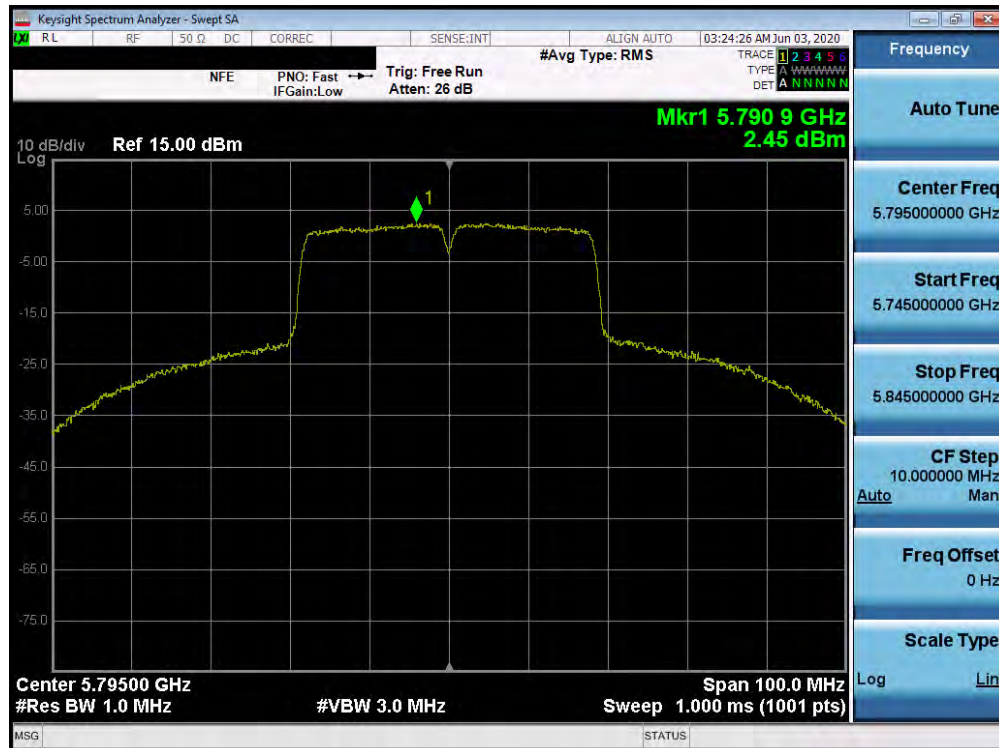


Plot 7-186. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 130 of 234

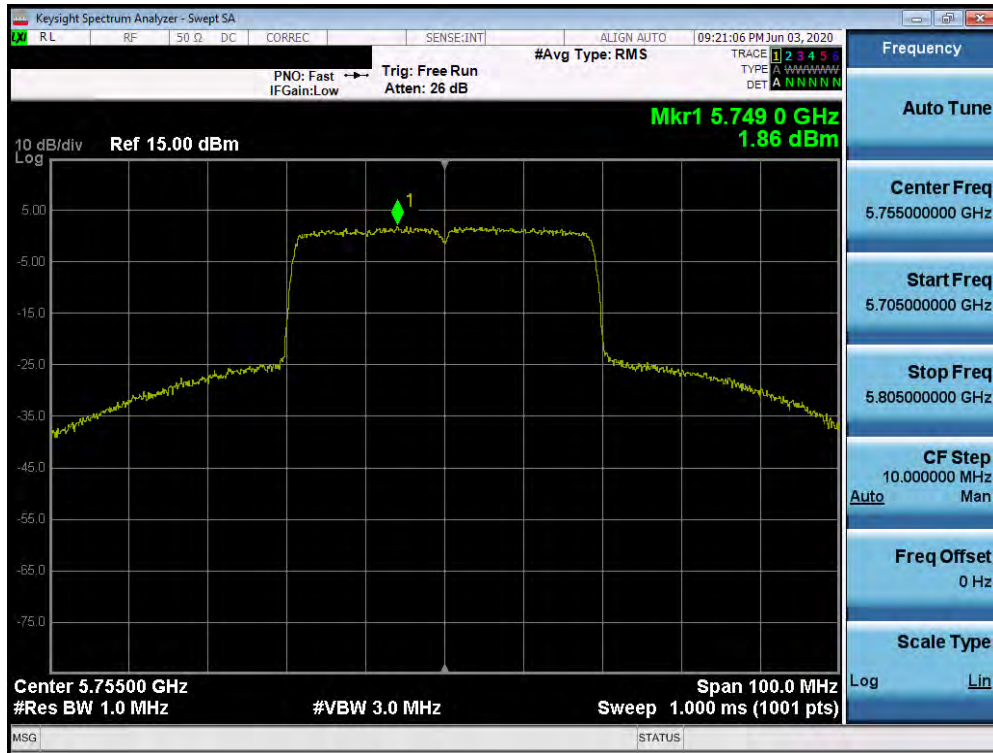


Plot 7-187. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

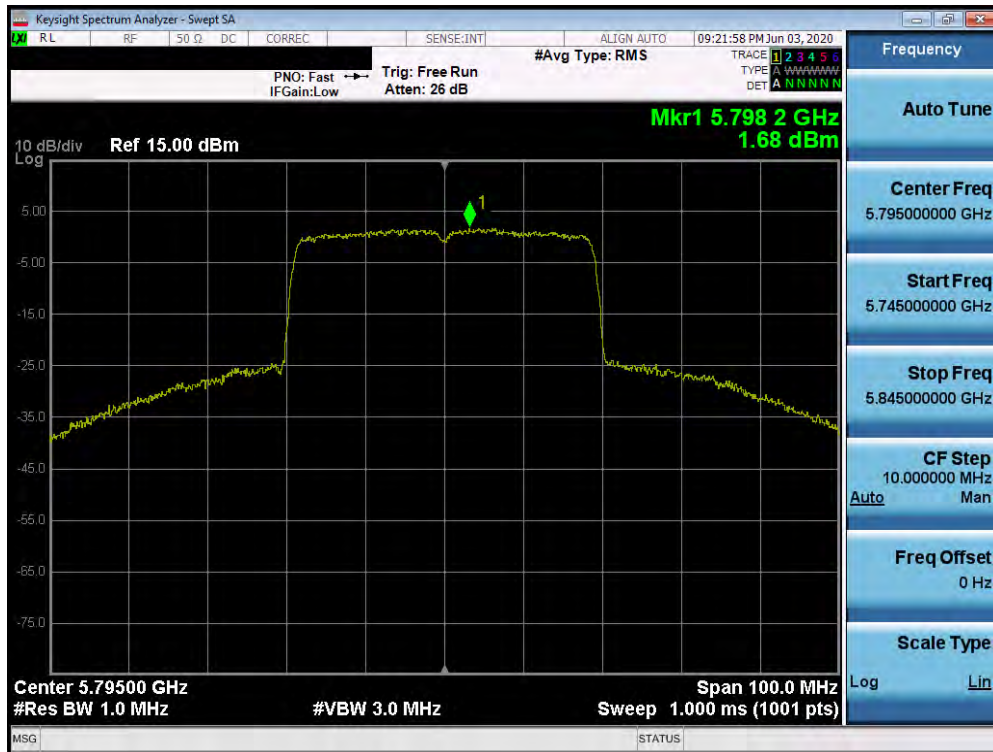


Plot 7-188. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 131 of 234

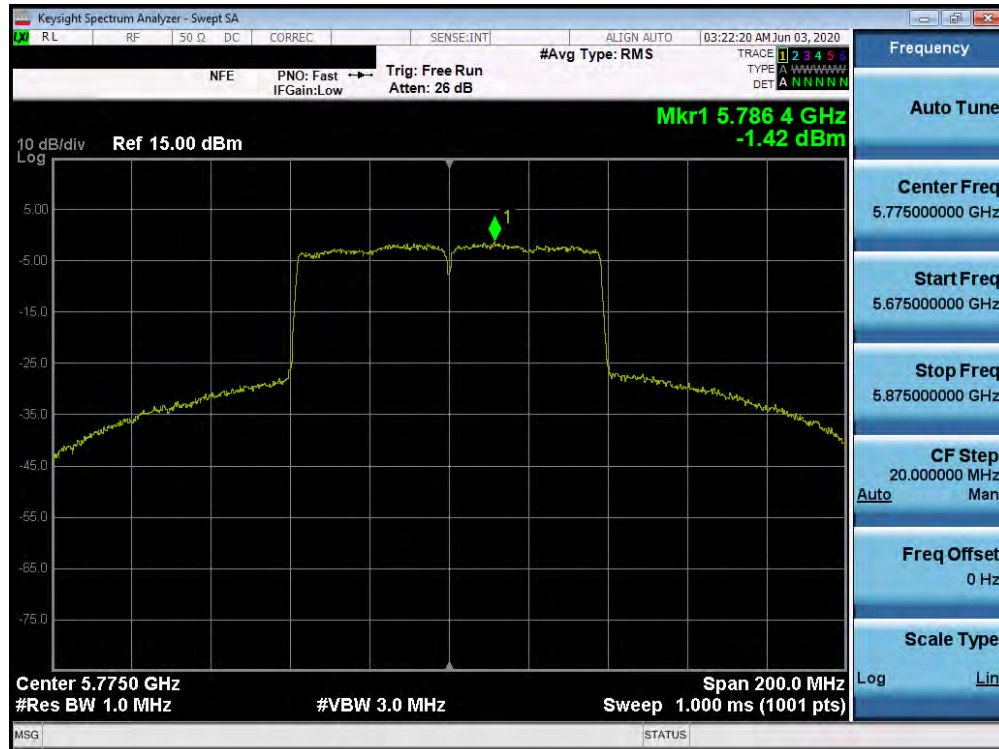


Plot 7-189. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

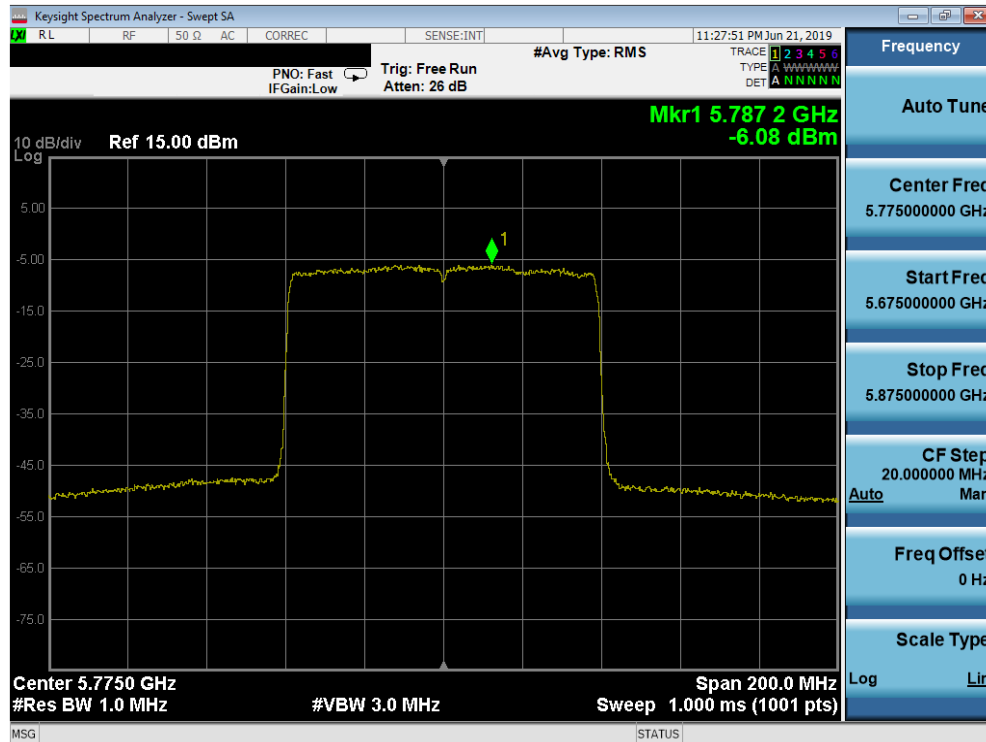


Plot 7-190. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 132 of 234



Plot 7-191. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-192. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 133 of 234

SISO Antenna-2 Power Spectral Density Measurements

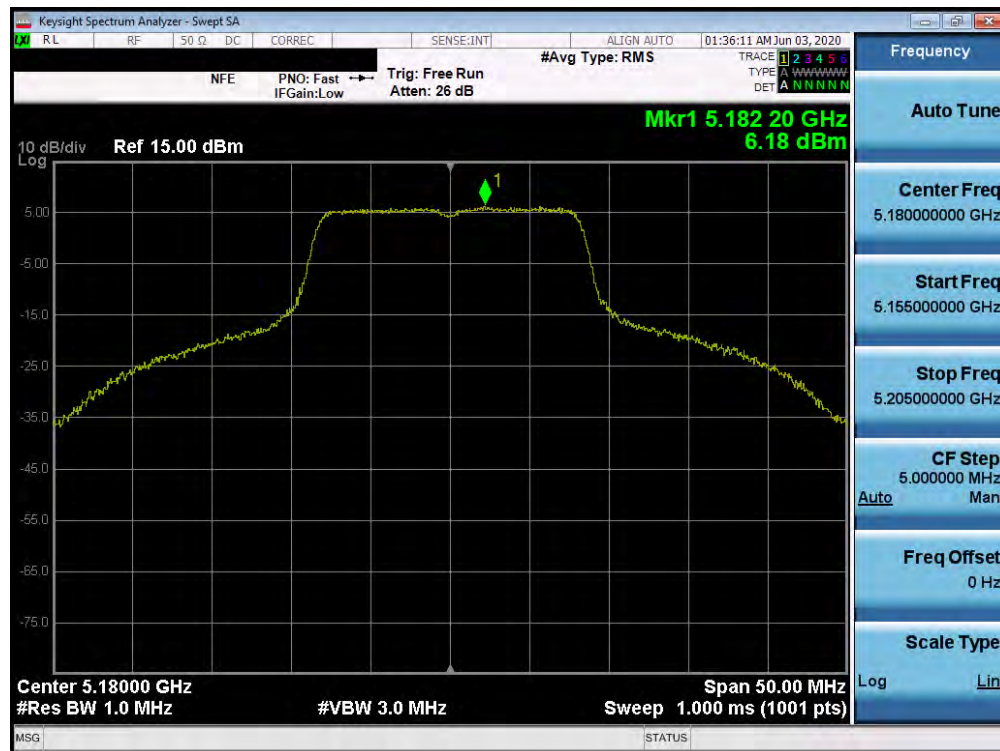
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	6.18	11.0	-4.82
	5200	40	a	6	6.29	11.0	-4.71
	5240	48	a	6	6.58	11.0	-4.42
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.78	11.0	-5.22
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	5.95	11.0	-5.05
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.35	11.0	-4.65
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.76	11.0	-6.24
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	5.13	11.0	-5.87
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.60	11.0	-5.40
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.81	11.0	-9.19
	5230	46	n (40MHz)	13.5/15 (MCS0)	1.96	11.0	-9.04
	5190	38	ax (40MHz)	13.5/15 (MCS0)	2.12	11.0	-8.88
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.24	11.0	-8.76
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.32	11.0	-12.32
Band 2A	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.02	11.0	-13.02
	5260	52	a	6	7.00	11.0	-4.00
	5280	56	a	6	6.87	11.0	-4.13
	5320	64	a	6	6.55	11.0	-4.45
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.69	11.0	-4.31
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.58	11.0	-4.42
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.11	11.0	-4.89
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.58	11.0	-5.42
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.72	11.0	-5.28
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	5.22	11.0	-5.78
	5270	54	n (40MHz)	13.5/15 (MCS0)	1.89	11.0	-9.11
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.77	11.0	-8.23
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.35	11.0	-8.65
	5310	62	ax (40MHz)	13.5/15 (MCS0)	1.86	11.0	-9.14
Band 2C	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.76	11.0	-12.76
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.70	11.0	-12.70
	5500	100	a	6	6.24	11.0	-4.76
	5600	120	a	6	5.55	11.0	-5.45
	5720	144	a	6	6.04	11.0	-4.96
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	5.75	11.0	-5.25
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.28	11.0	-5.72
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.89	11.0	-5.11
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.12	11.0	-5.88
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.40	11.0	-6.60
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	4.89	11.0	-6.11
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.52	11.0	-8.48
	5590	118	n (40MHz)	13.5/15 (MCS0)	1.78	11.0	-9.22
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.17	11.0	-8.83
	5510	102	ax (40MHz)	13.5/15 (MCS0)	1.91	11.0	-9.09
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.14	11.0	-9.86
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.56	11.0	-9.44
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.15	11.0	-12.15
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.55	11.0	-12.55
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-1.39	11.0	-12.39
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-2.60	11.0	-13.60
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.28	11.0	-13.28
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-1.92	11.0	-12.92

Table 7-24. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 134 of 234

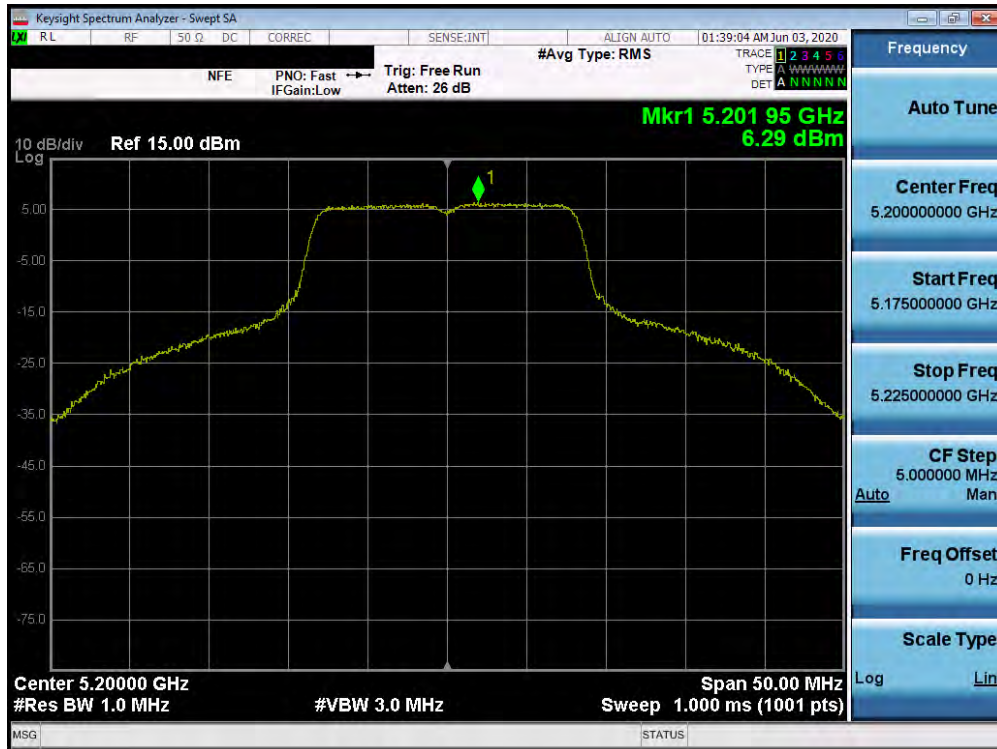
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	6.18	-5.46	0.72	10.0	-9.28
	5200	40	a	6	6.29	-5.46	0.83	10.0	-9.17
	5240	48	a	6	6.58	-5.46	1.12	10.0	-8.88
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.78	-5.46	0.32	10.0	-9.68
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	5.95	-5.46	0.49	10.0	-9.51
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.35	-5.46	0.89	10.0	-9.11
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.76	-5.46	-0.70	10.0	-10.70
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	5.13	-5.46	-0.33	10.0	-10.33
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.60	-5.46	0.14	10.0	-9.86
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.81	-5.46	-3.65	10.0	-13.65
	5230	46	n (40MHz)	13.5/15 (MCS0)	1.96	-5.46	-3.50	10.0	-13.50
	5190	38	ax (40MHz)	13.5/15 (MCS0)	2.12	-5.46	-3.34	10.0	-13.34
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.24	-5.46	-3.22	10.0	-13.22
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.32	-5.46	-6.78	10.0	-16.78
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.02	-5.46	-7.48	10.0	-17.48

Table 7-25. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED) SISO ANT2

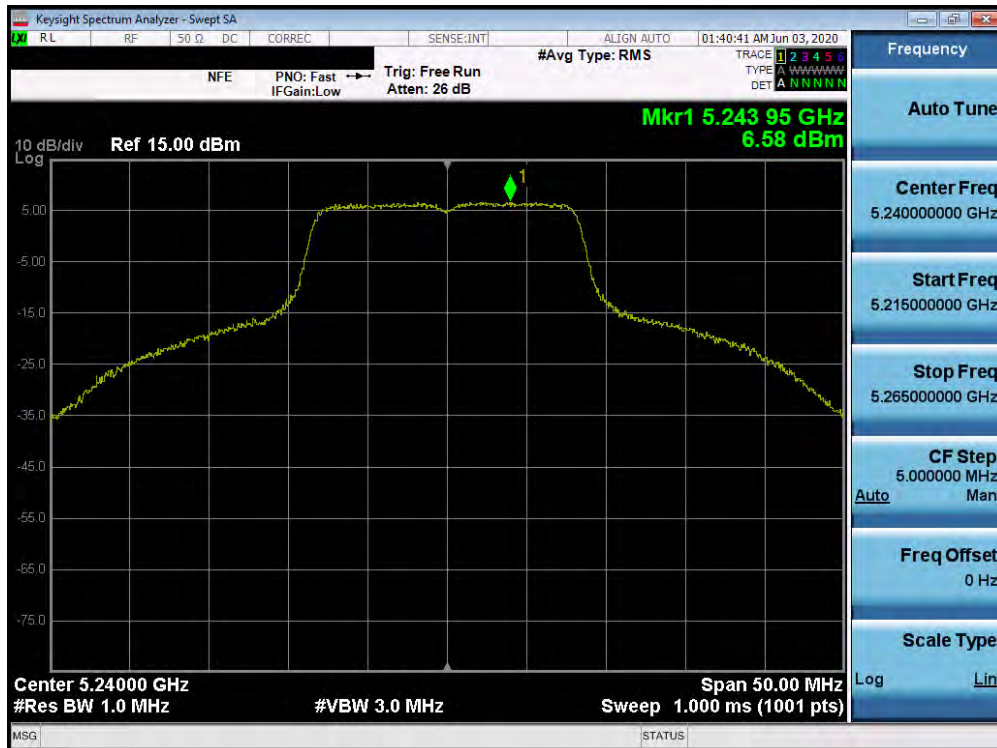


Plot 7-193. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 36)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 135 of 234

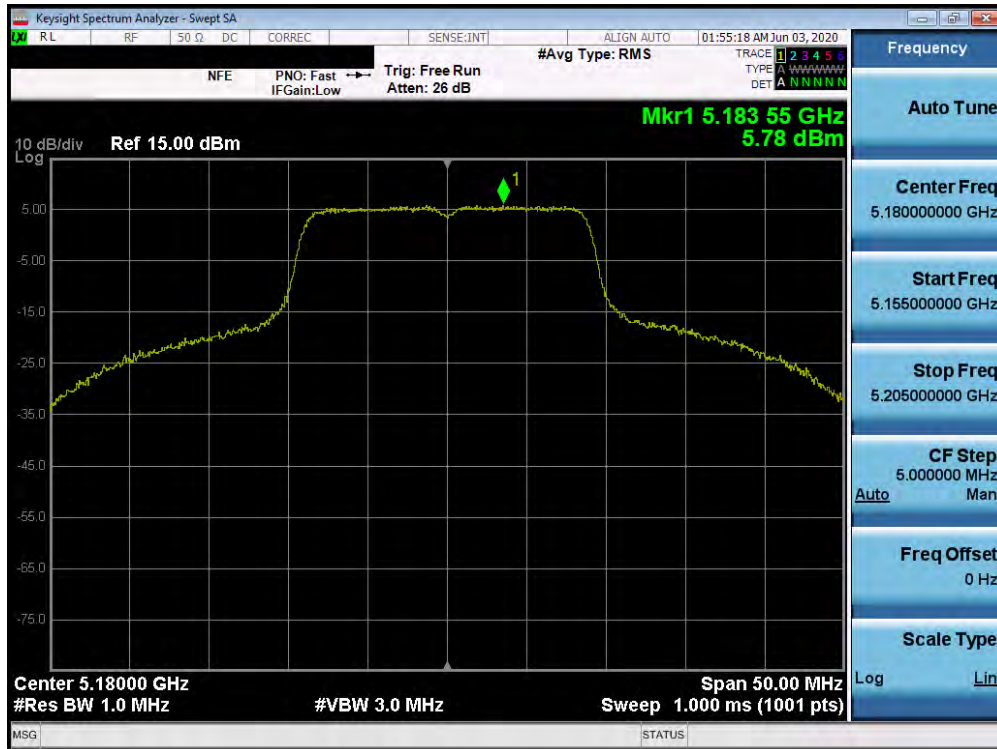


Plot 7-194. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 40)

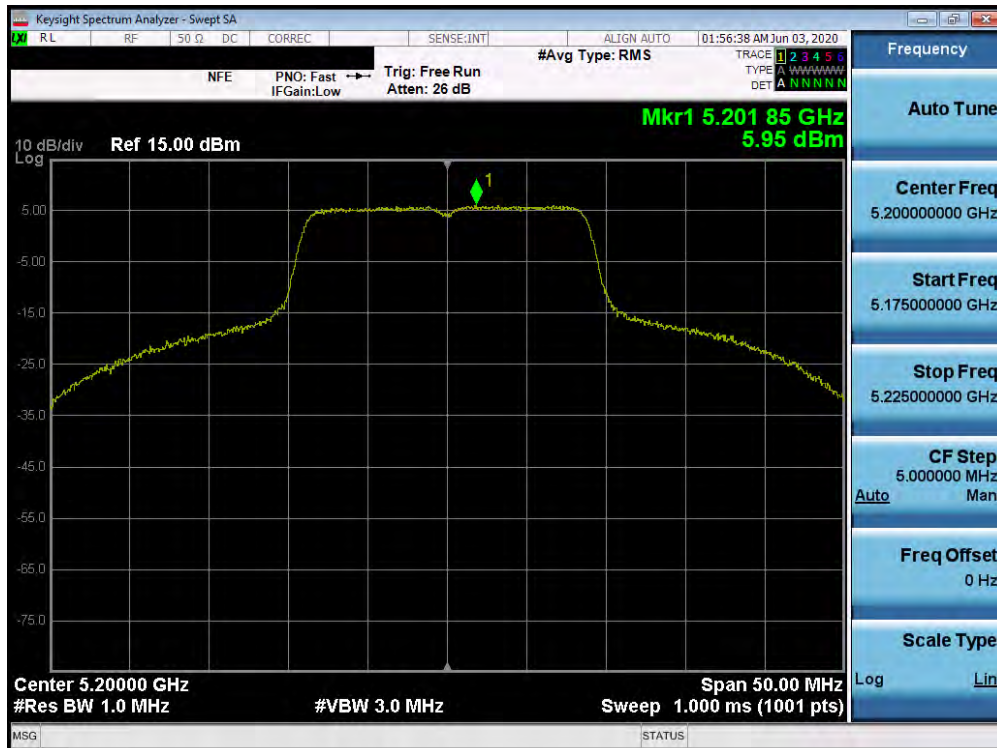


Plot 7-195. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 48)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 136 of 234

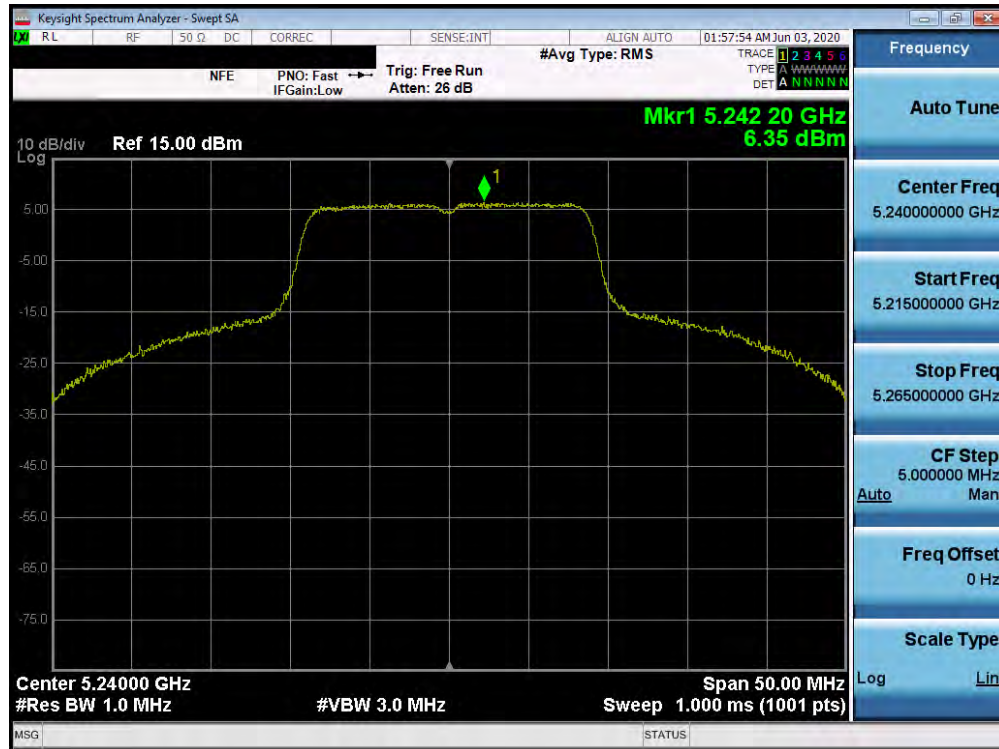


Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

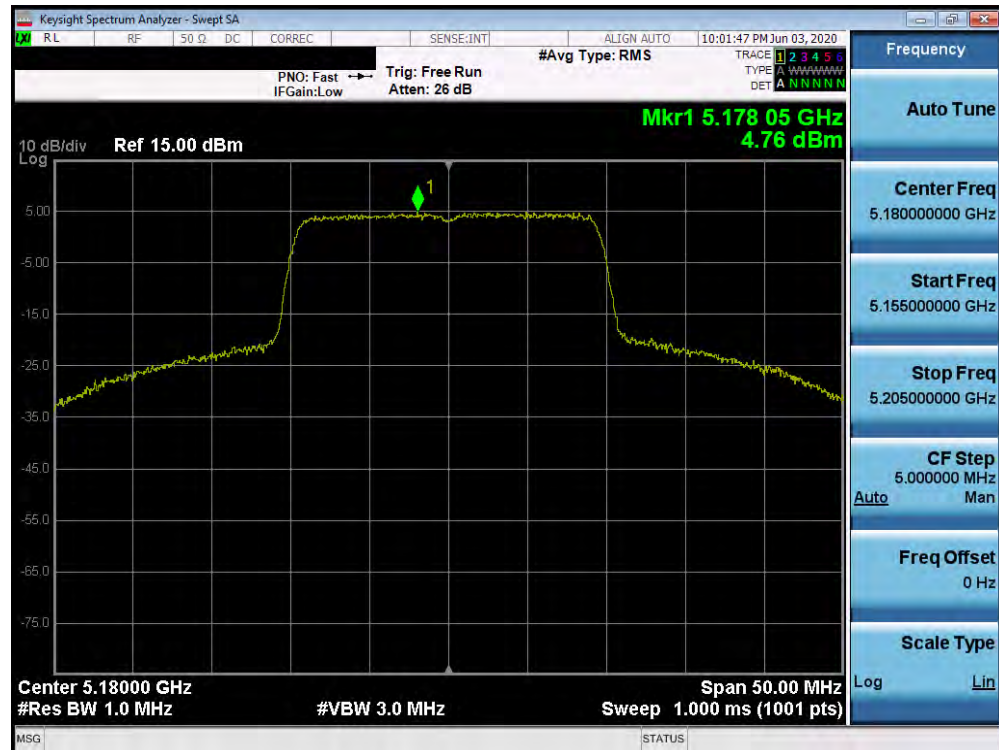


Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 137 of 234

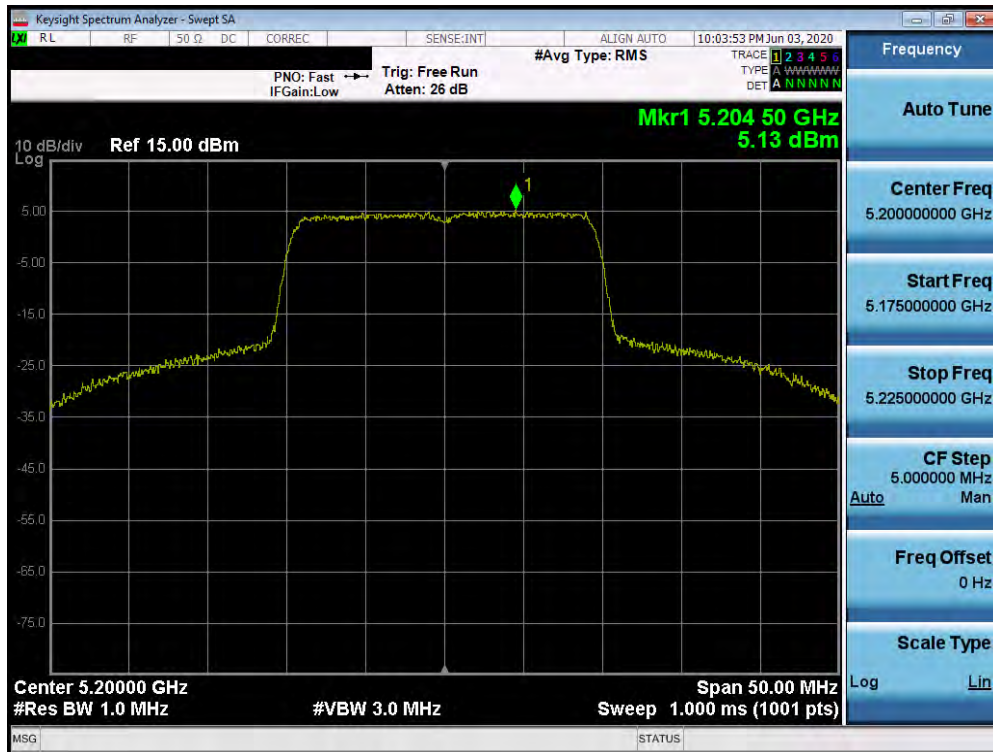


Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

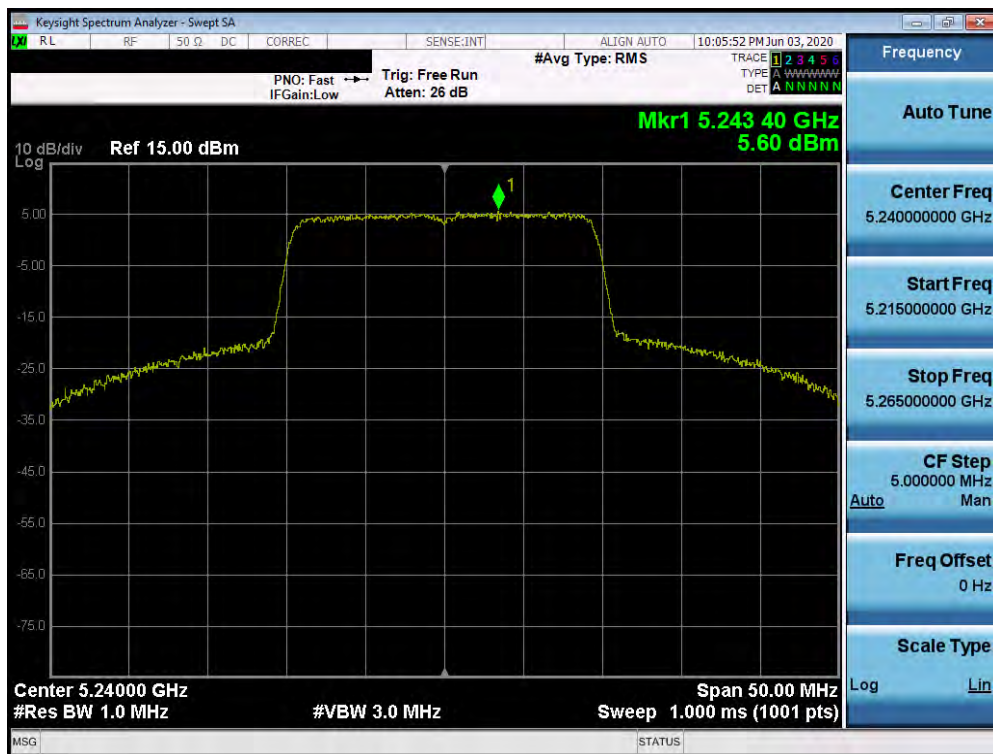


Plot 7-199. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 138 of 234

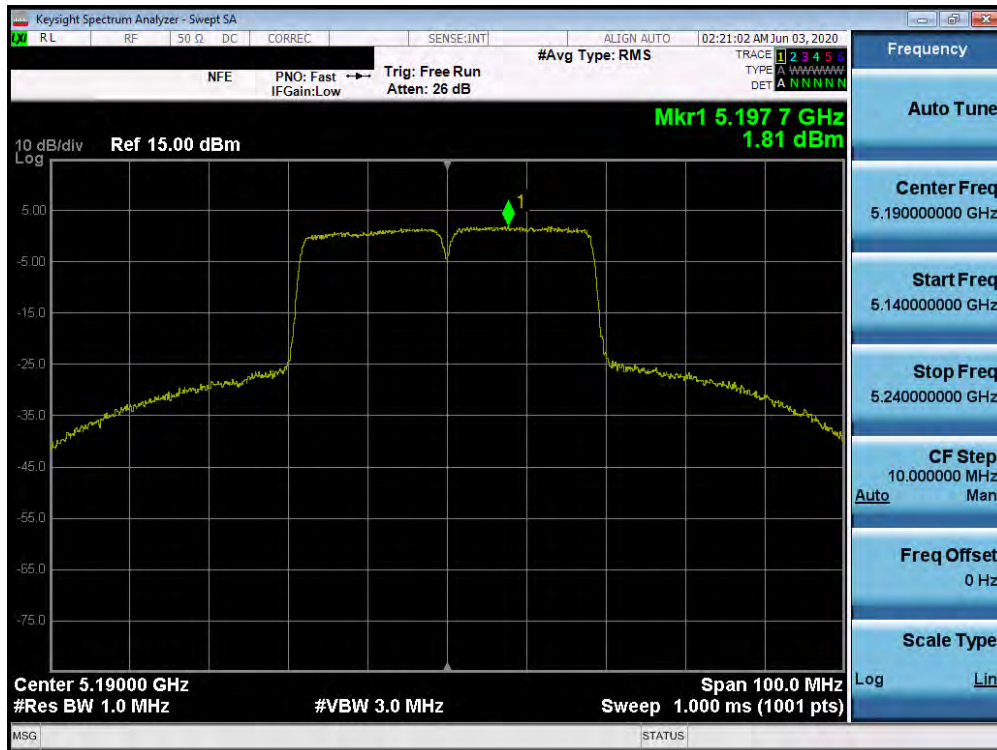


Plot 7-200. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

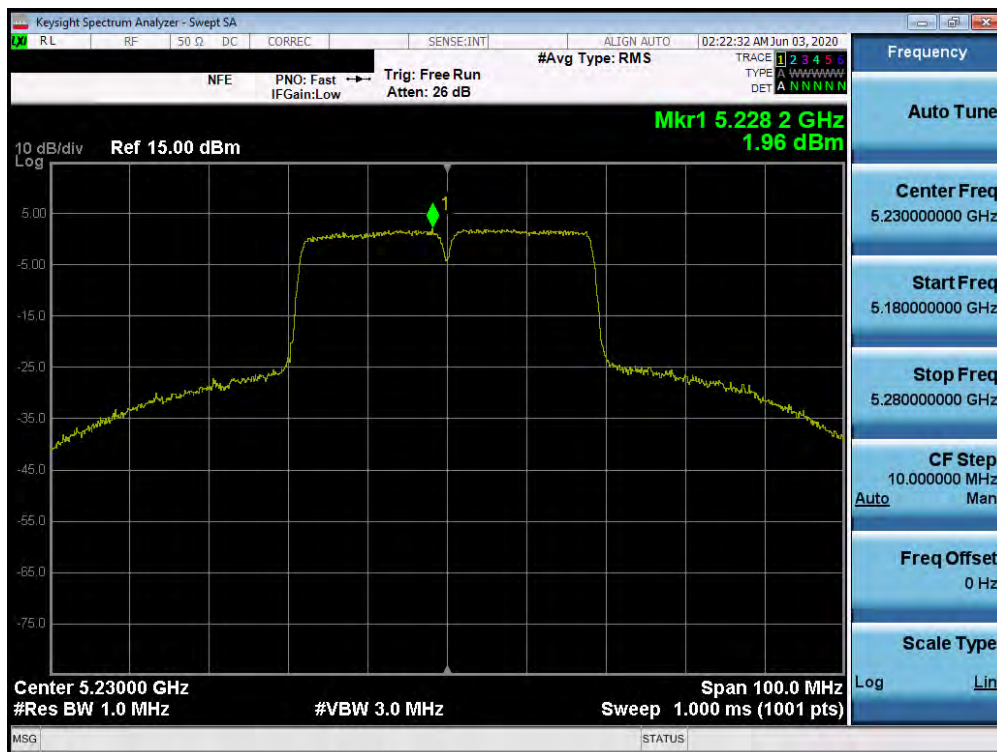


Plot 7-201. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 139 of 234

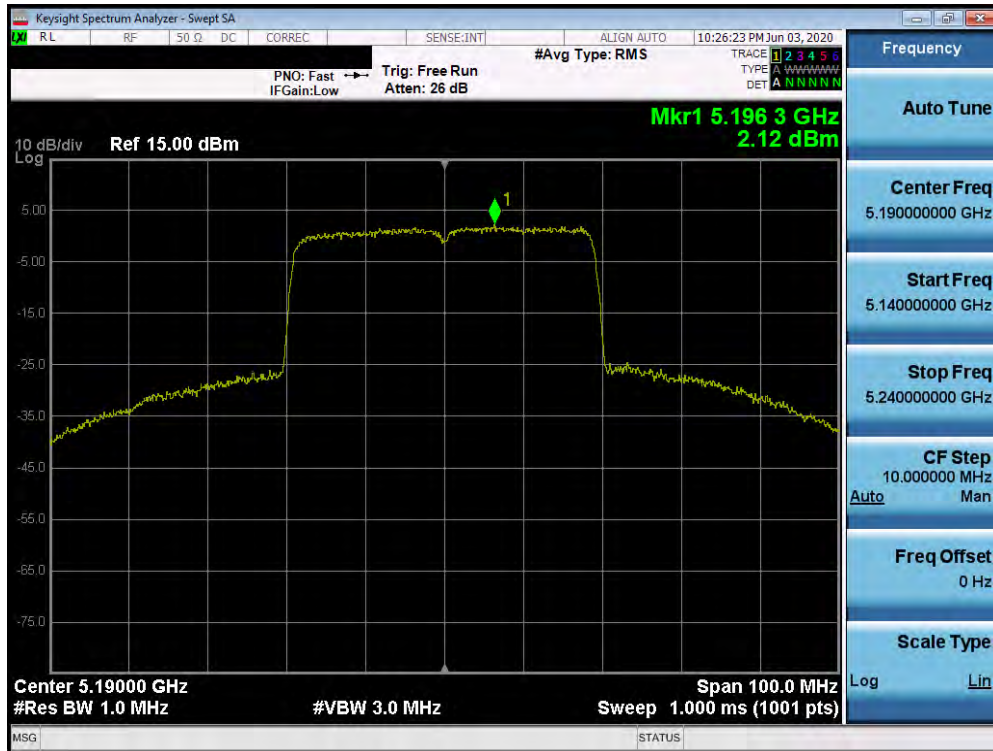


Plot 7-202. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

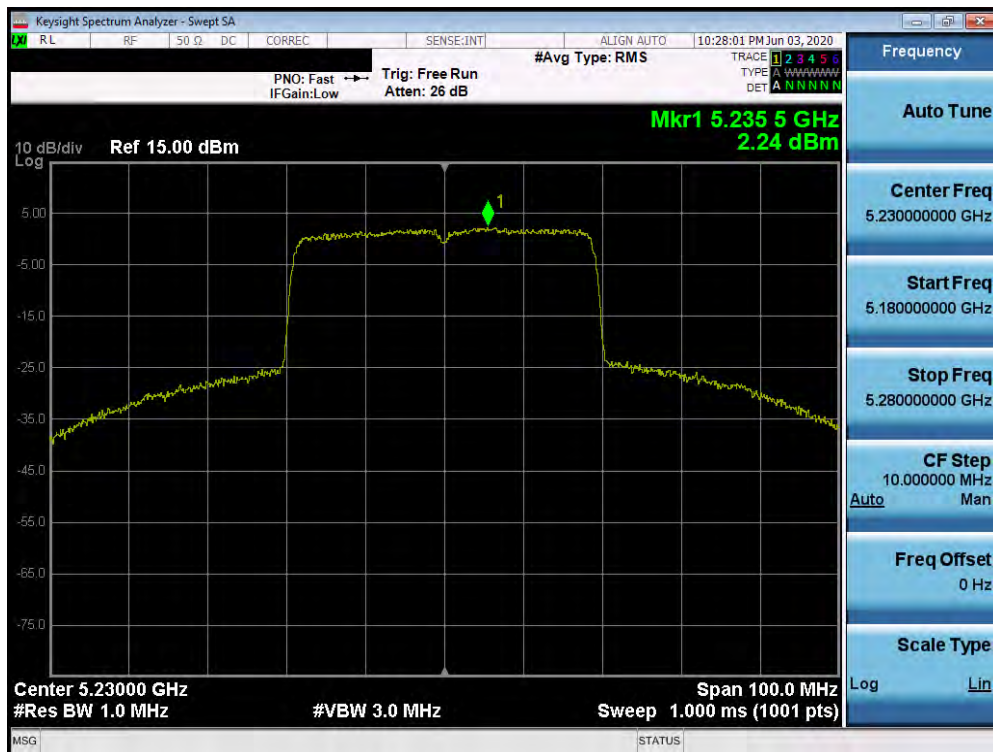


Plot 7-203. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 140 of 234

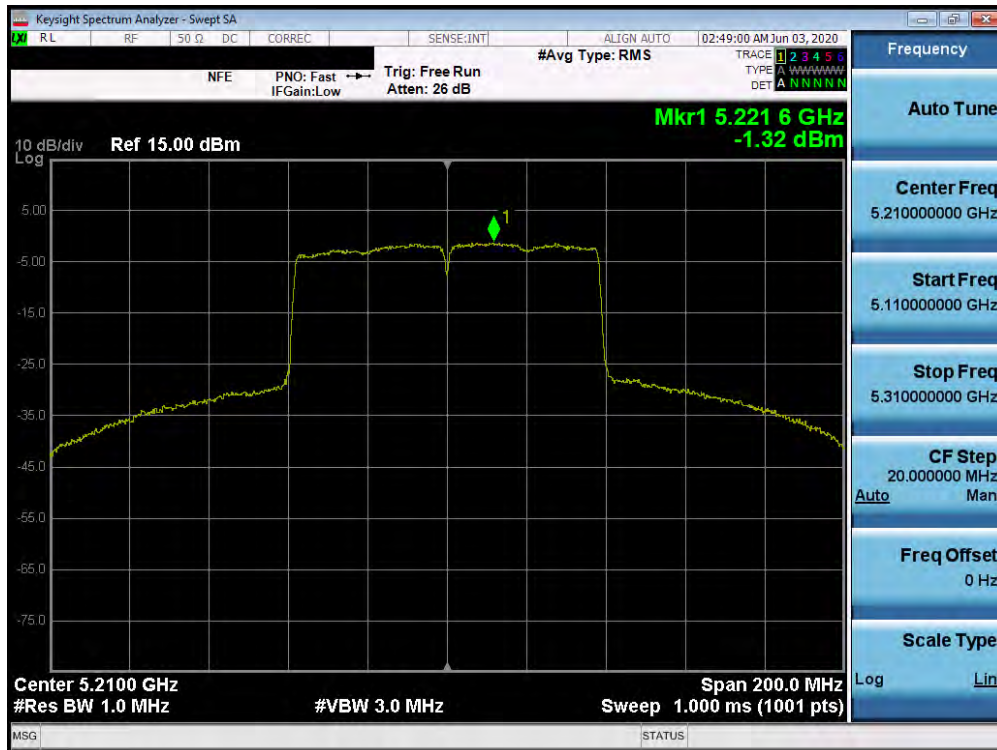


Plot 7-204. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

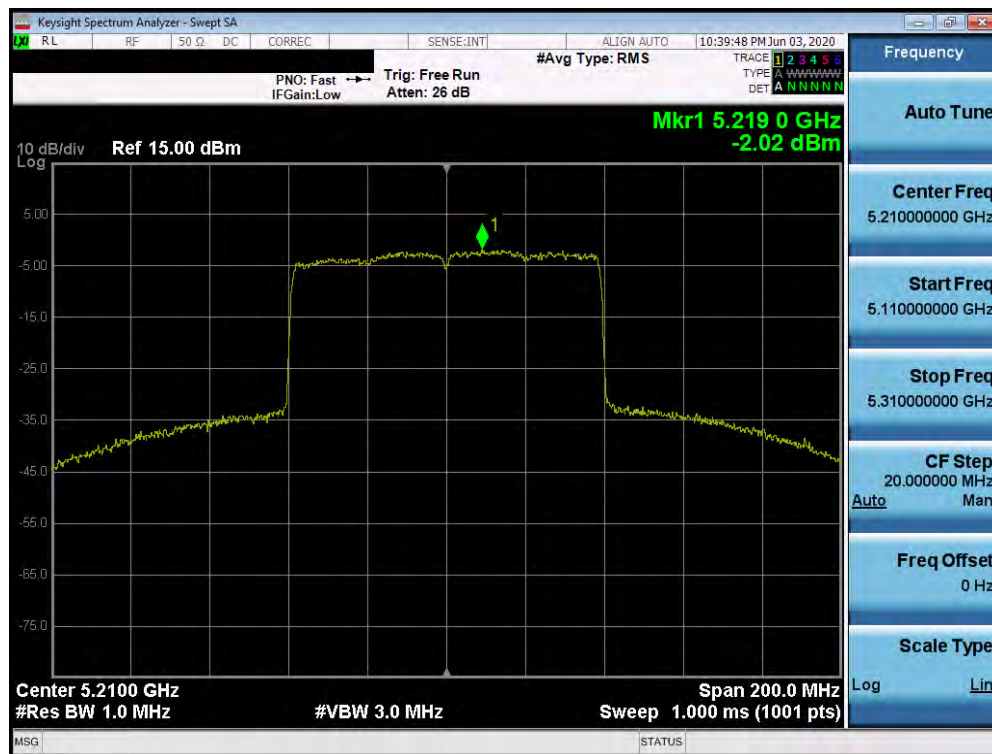


Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 141 of 234

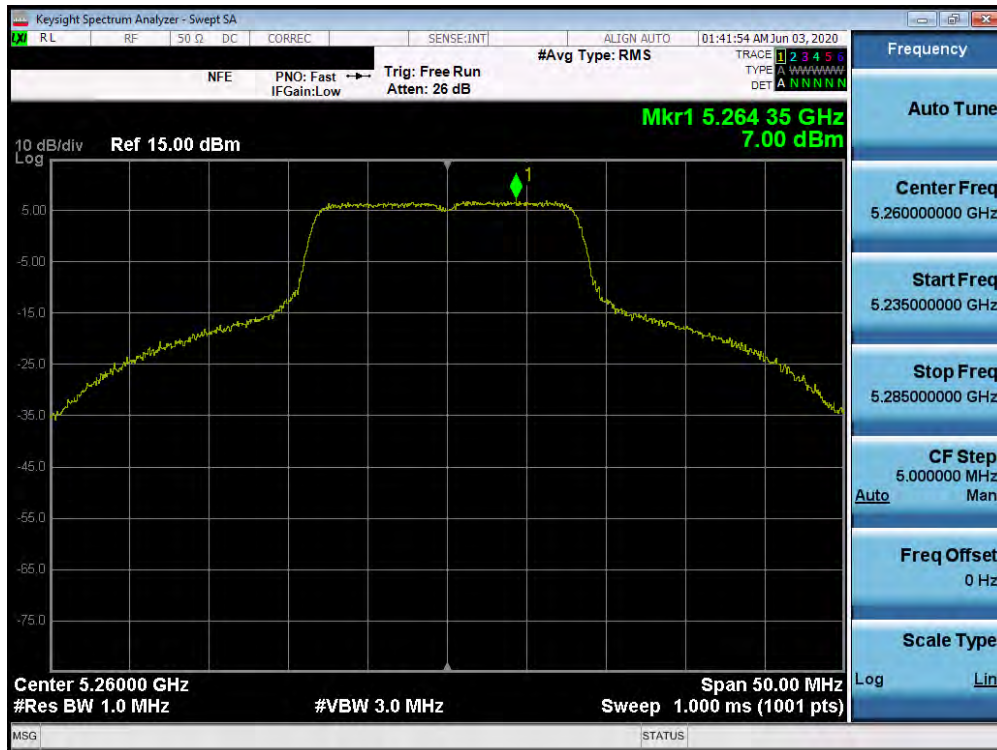


Plot 7-206. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

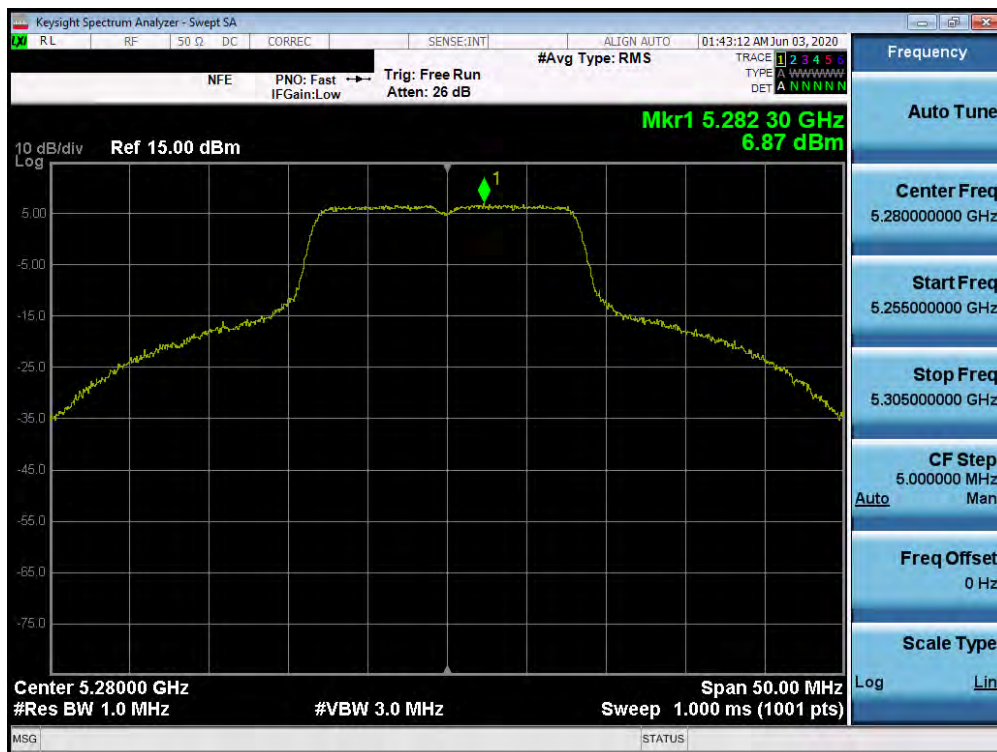


Plot 7-207. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

FCC ID: A3LSMN986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset	Page 142 of 234

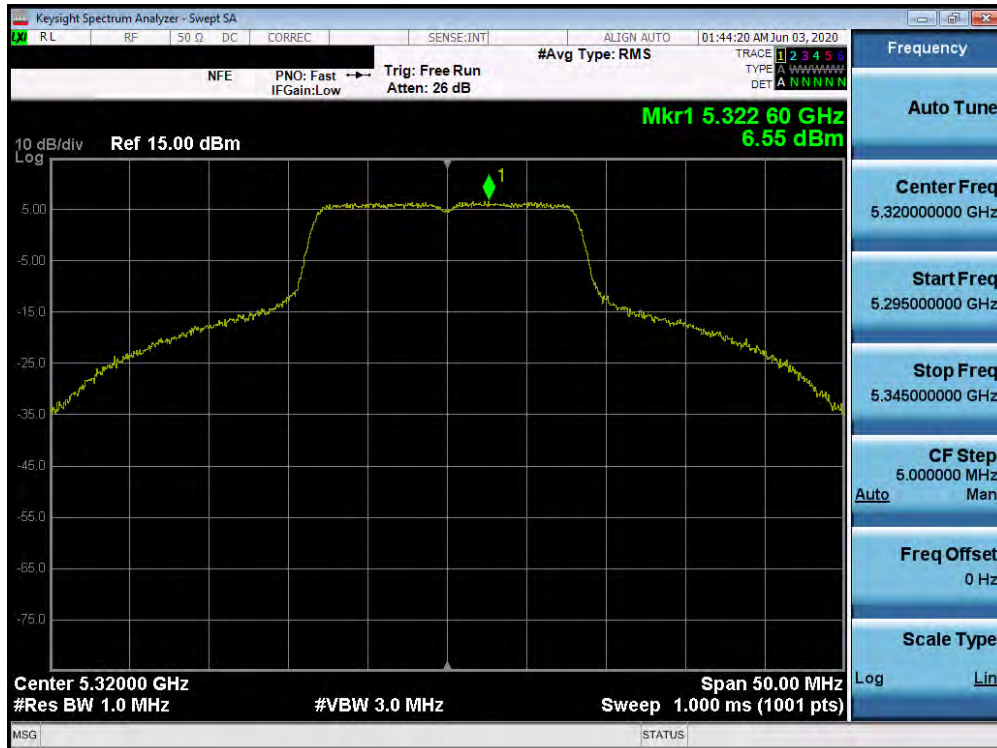


Plot 7-208. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

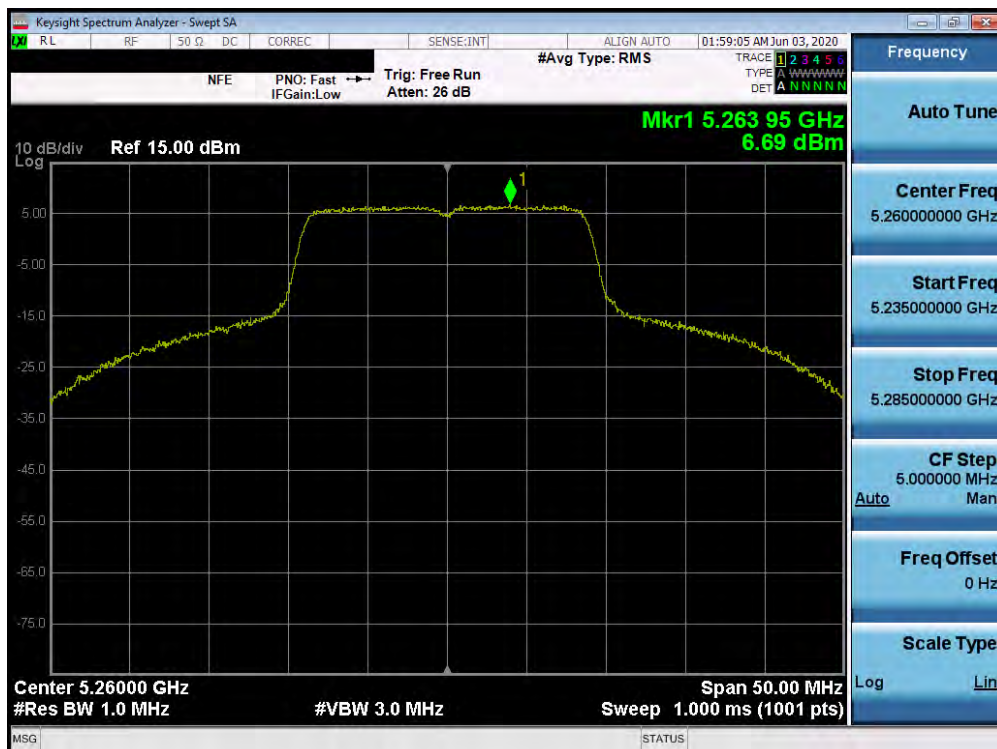


Plot 7-209. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 143 of 234

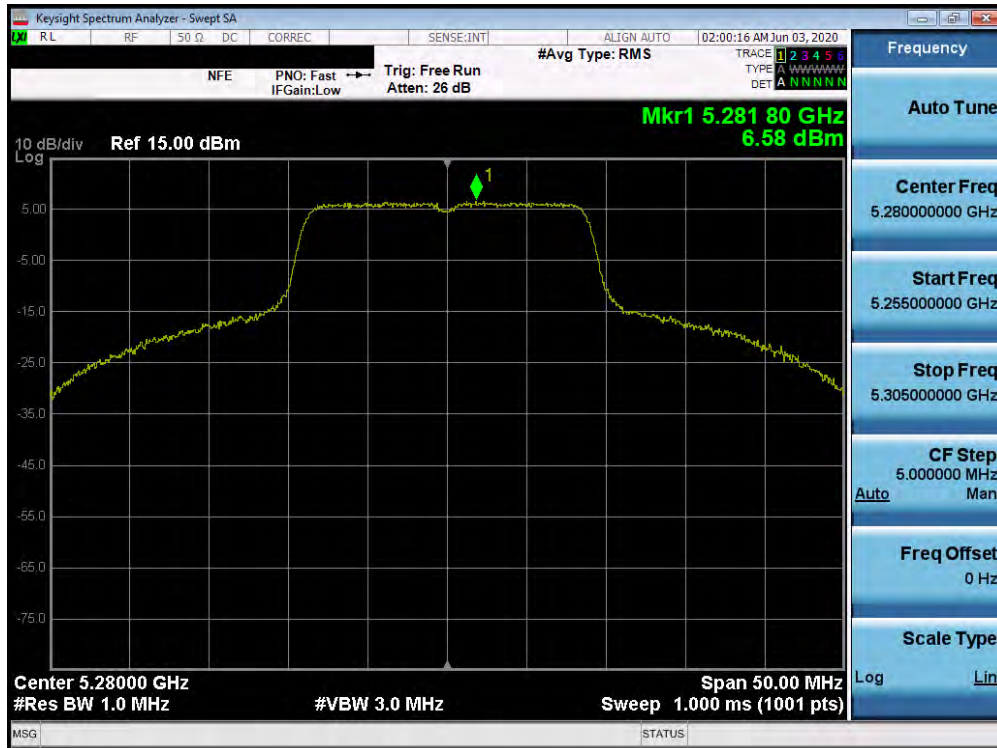


Plot 7-210. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 64)

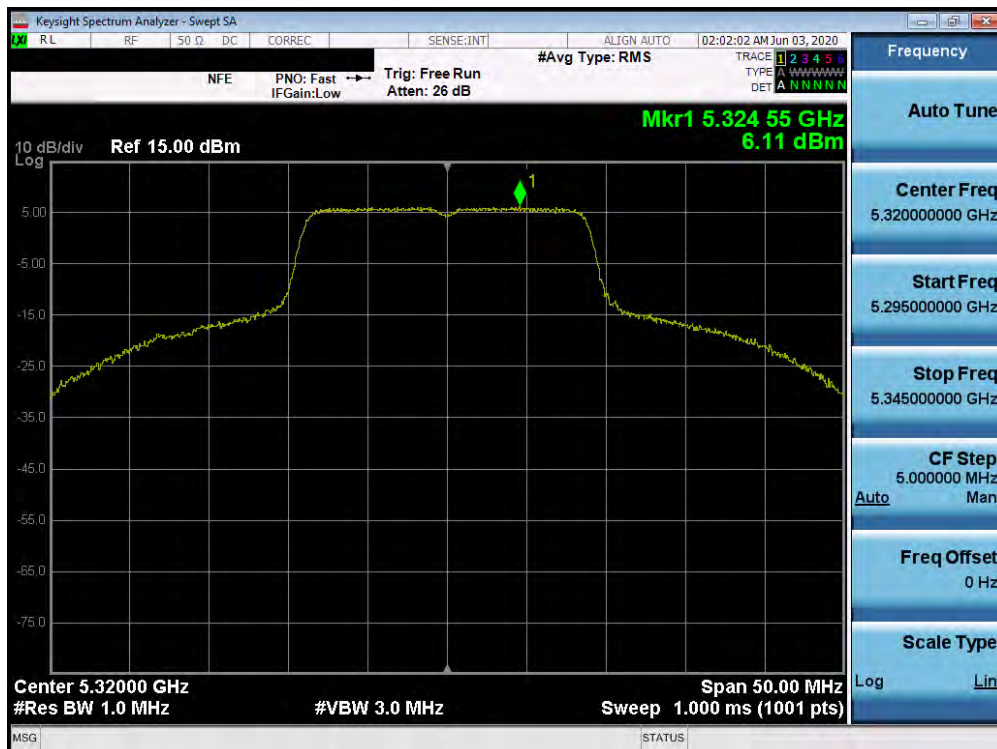


Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 144 of 234

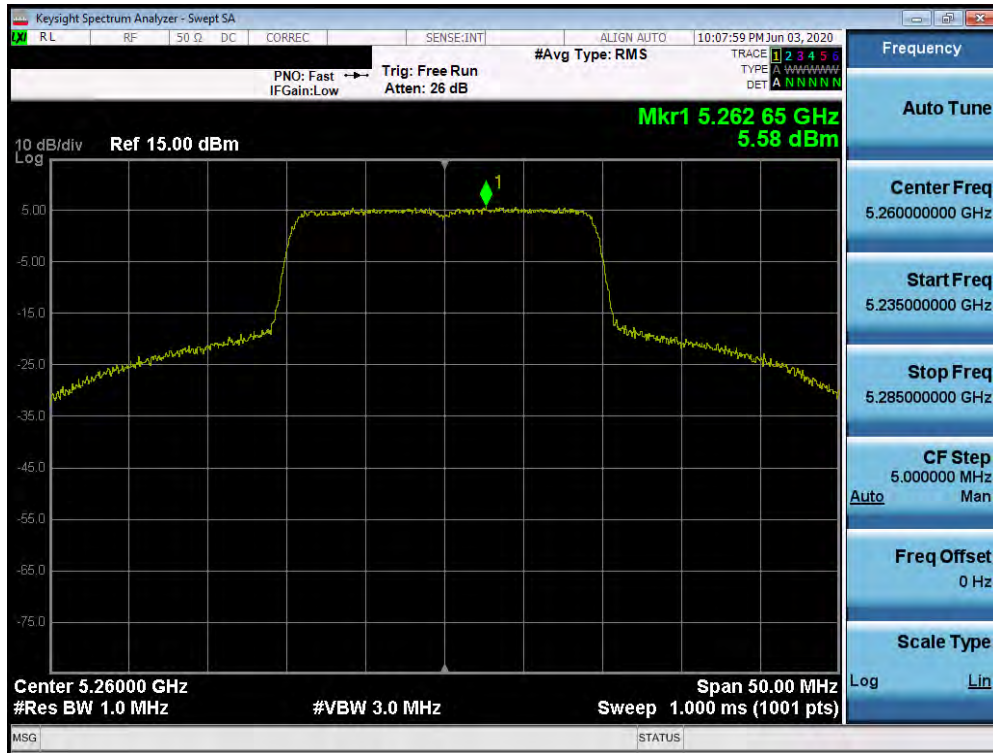


Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

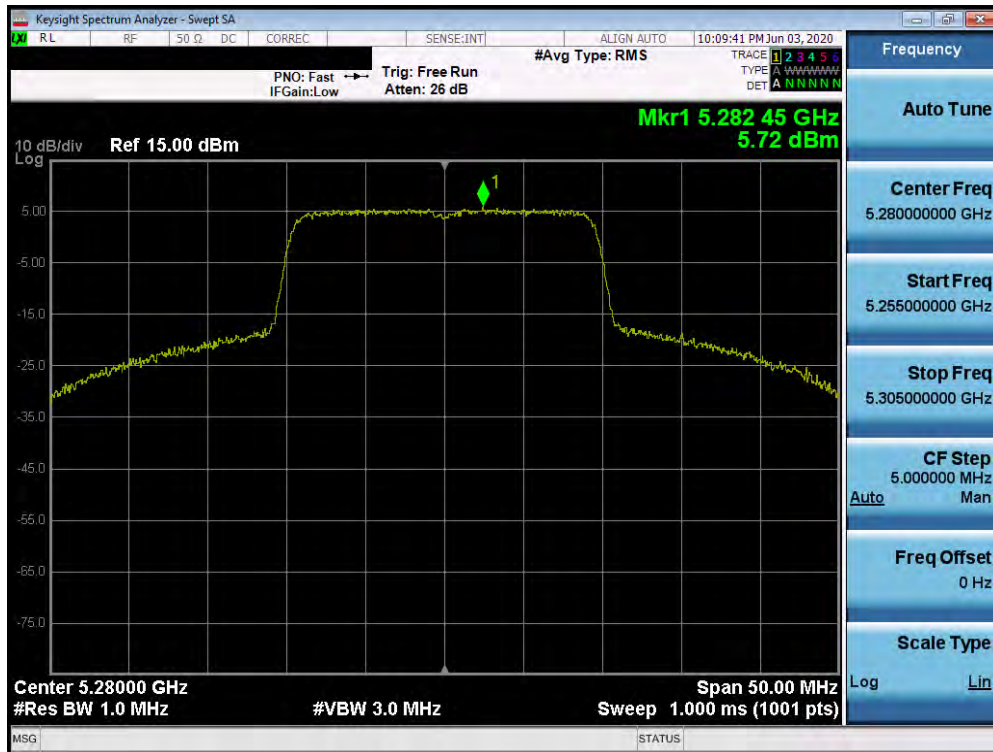


Plot 7-213. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 145 of 234

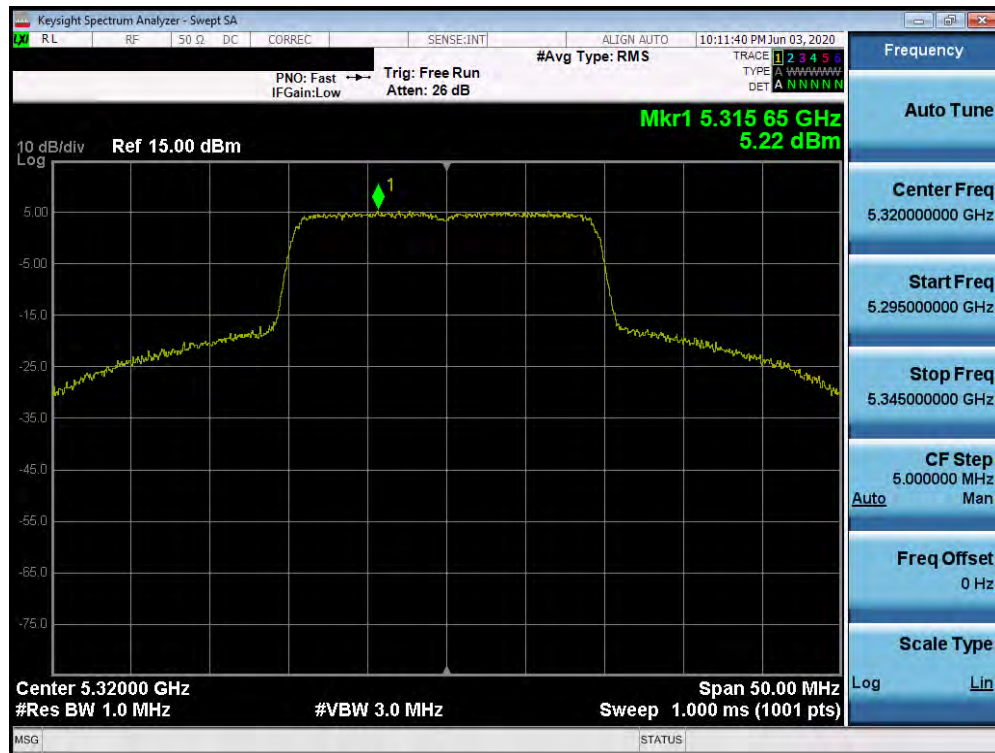


Plot 7-214. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

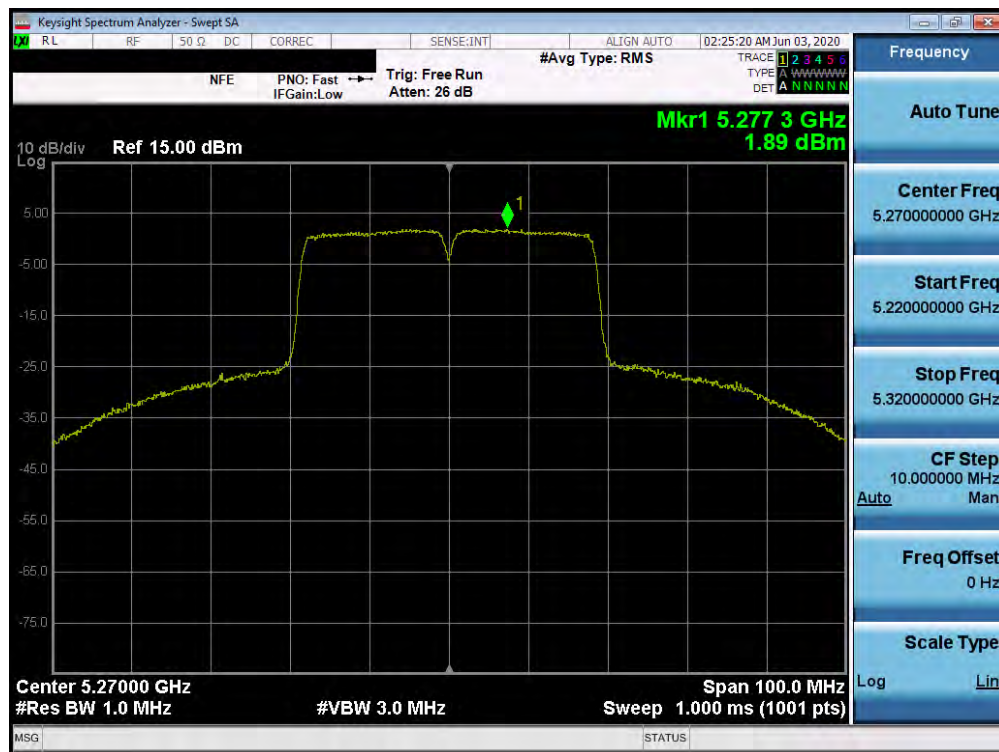


Plot 7-215. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 146 of 234

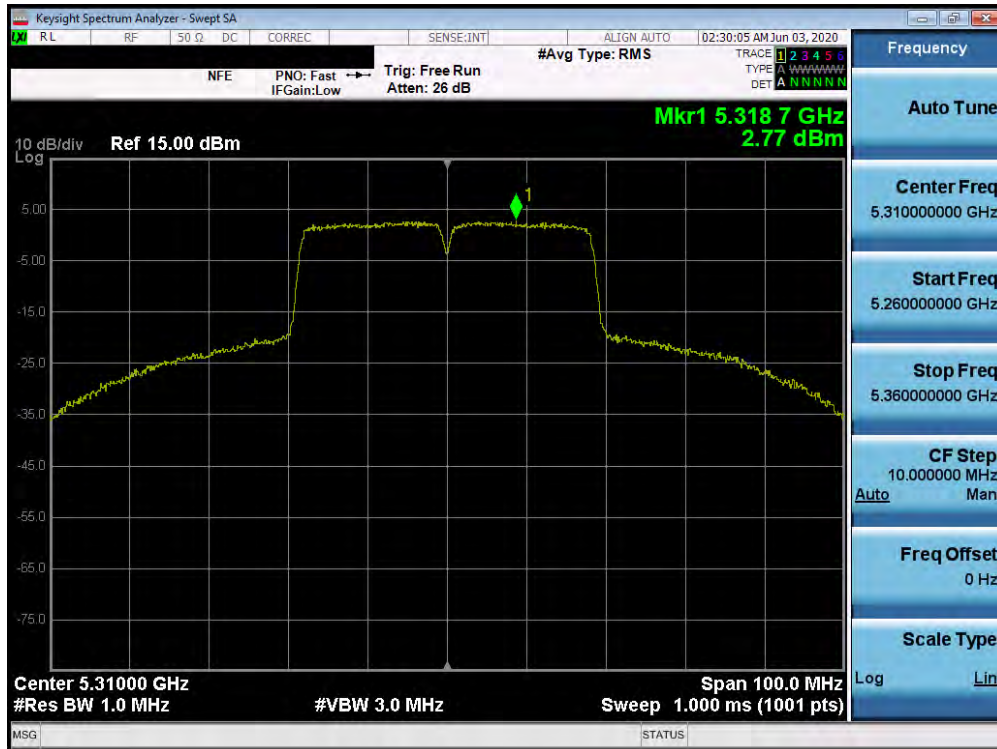


Plot 7-216. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

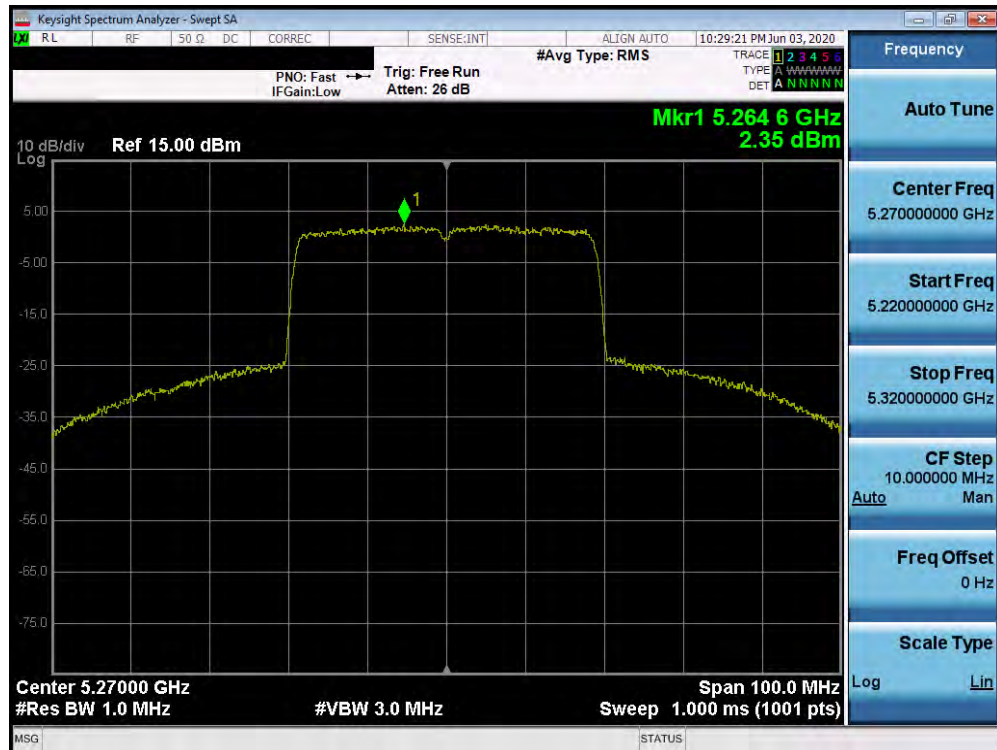


Plot 7-217. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 147 of 234

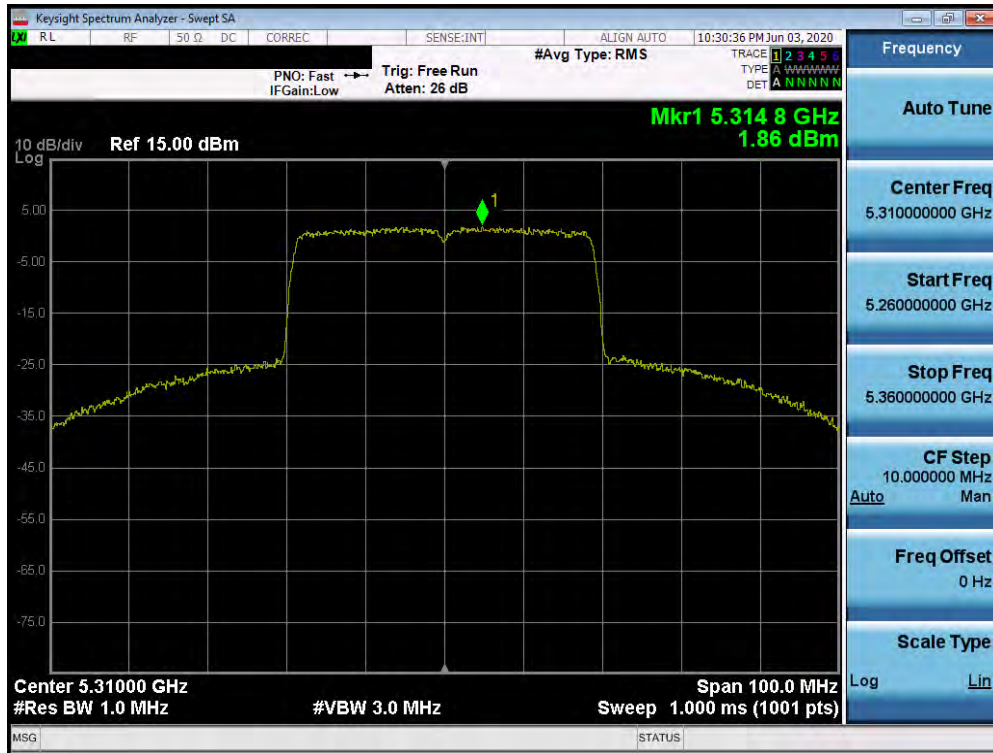


Plot 7-218. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

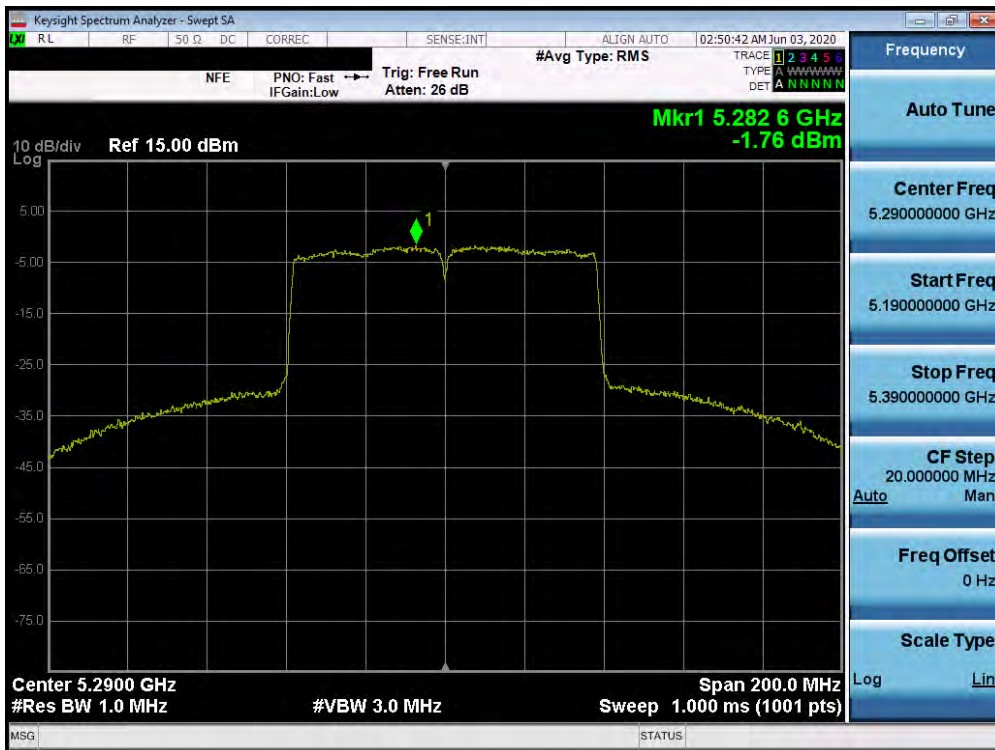


Plot 7-219. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 148 of 234

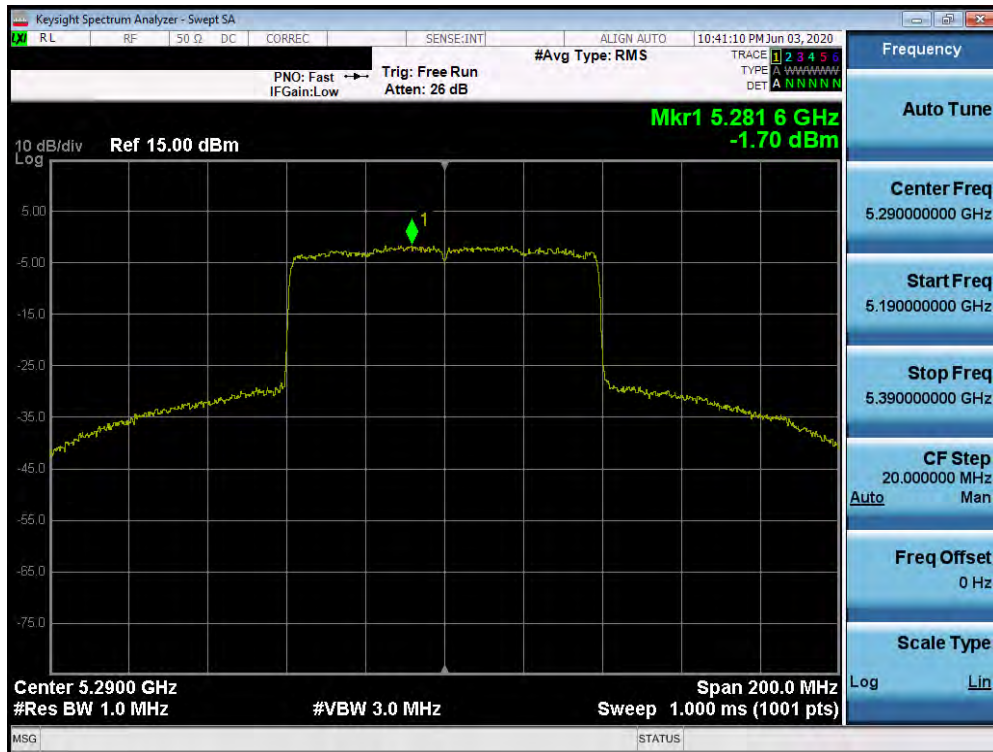


Plot 7-220. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

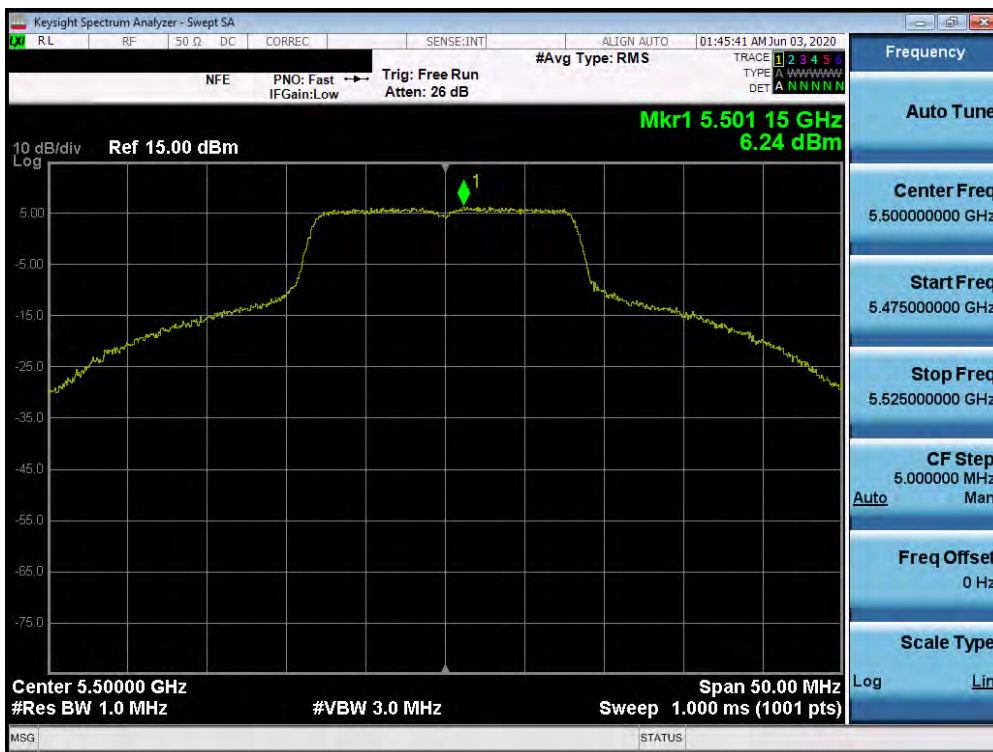


Plot 7-221. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 149 of 234

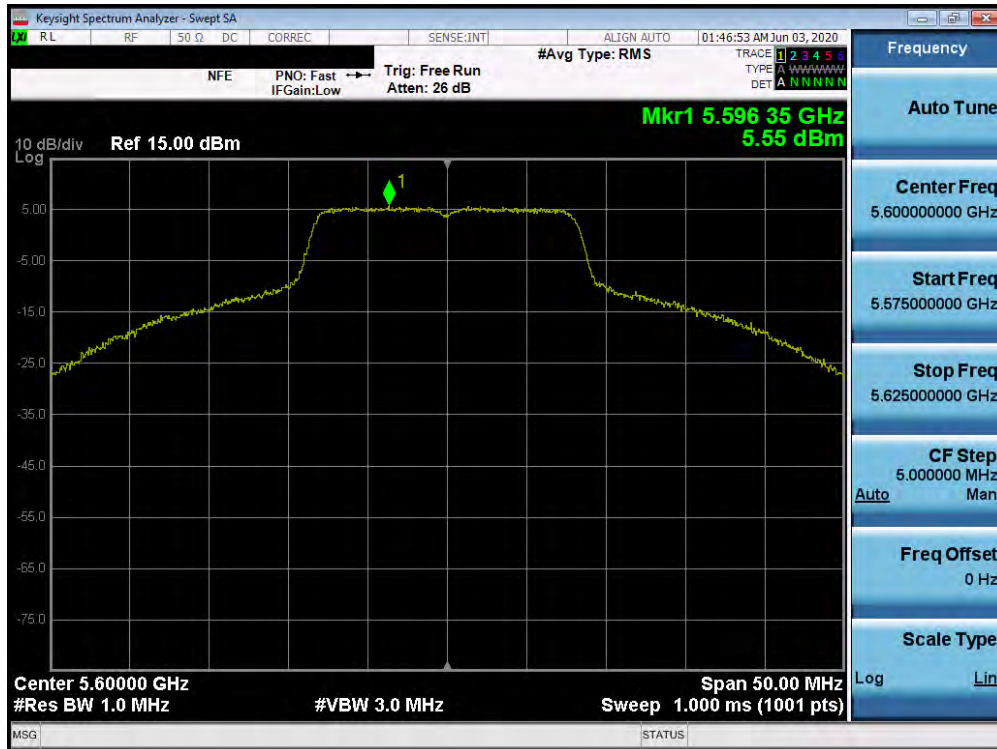


Plot 7-222. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

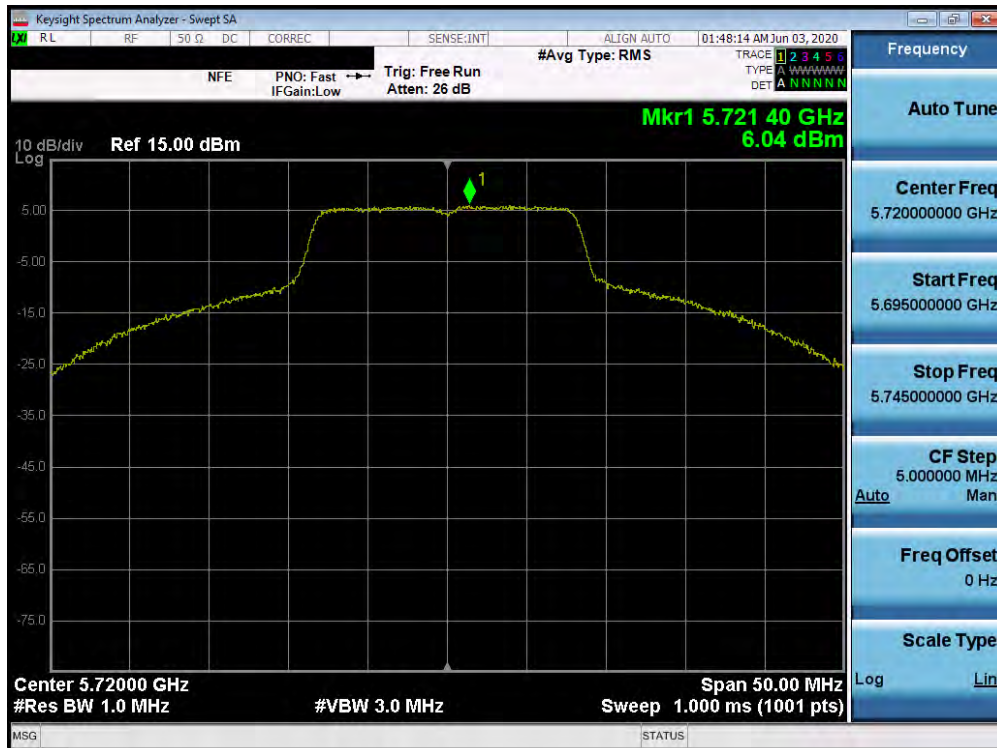


Plot 7-223. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 150 of 234

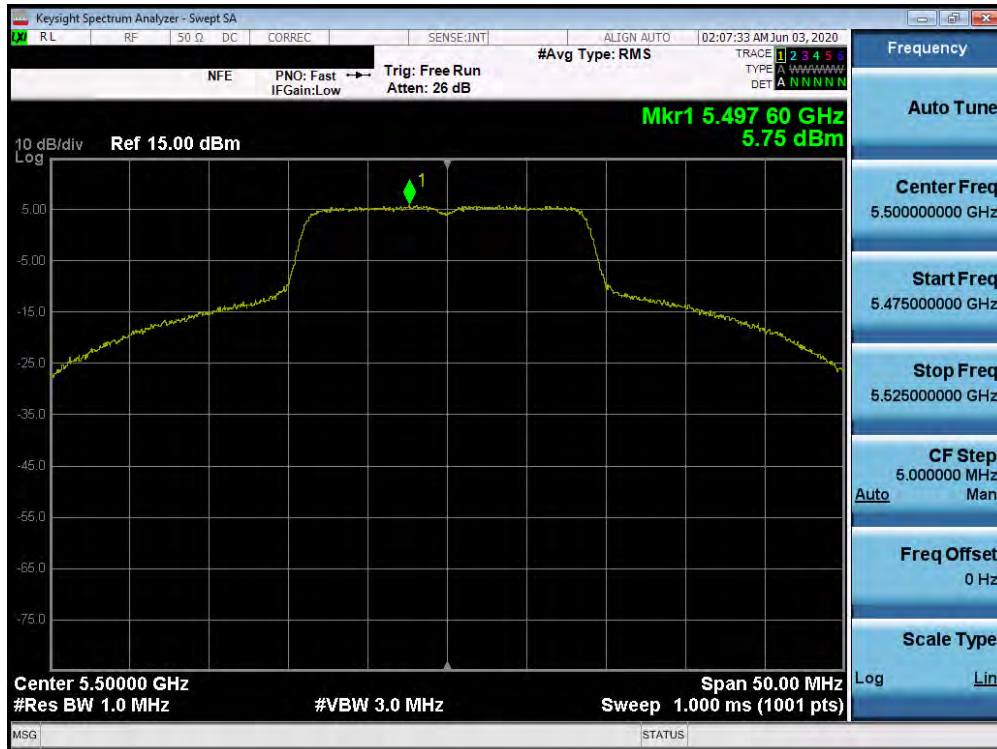


Plot 7-224. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

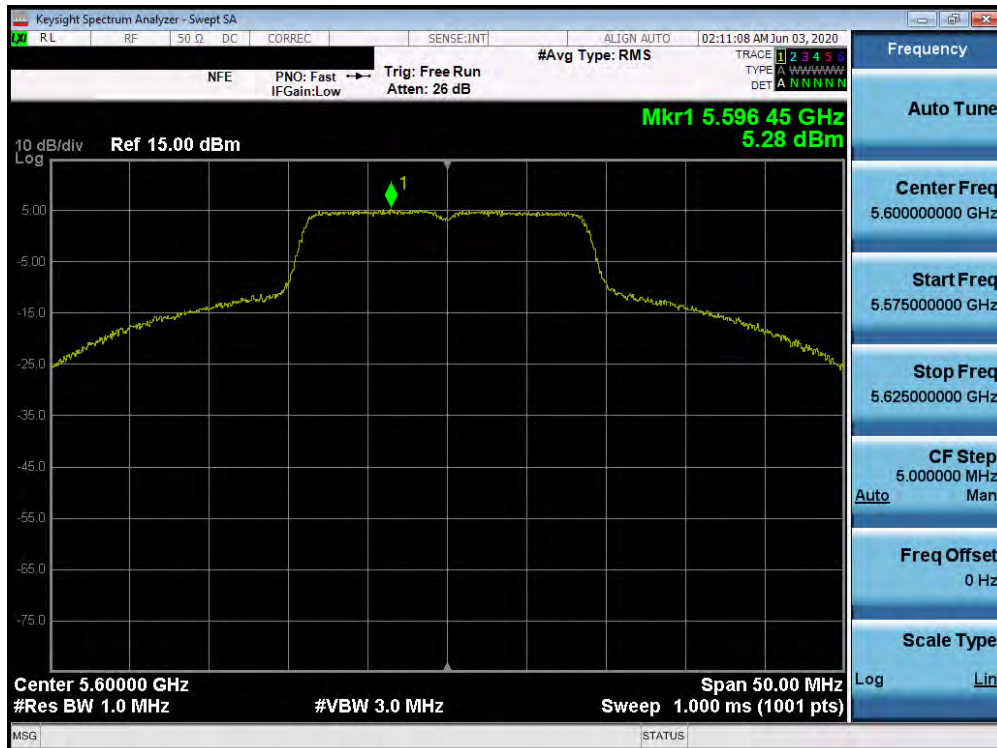


Plot 7-225. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 151 of 234

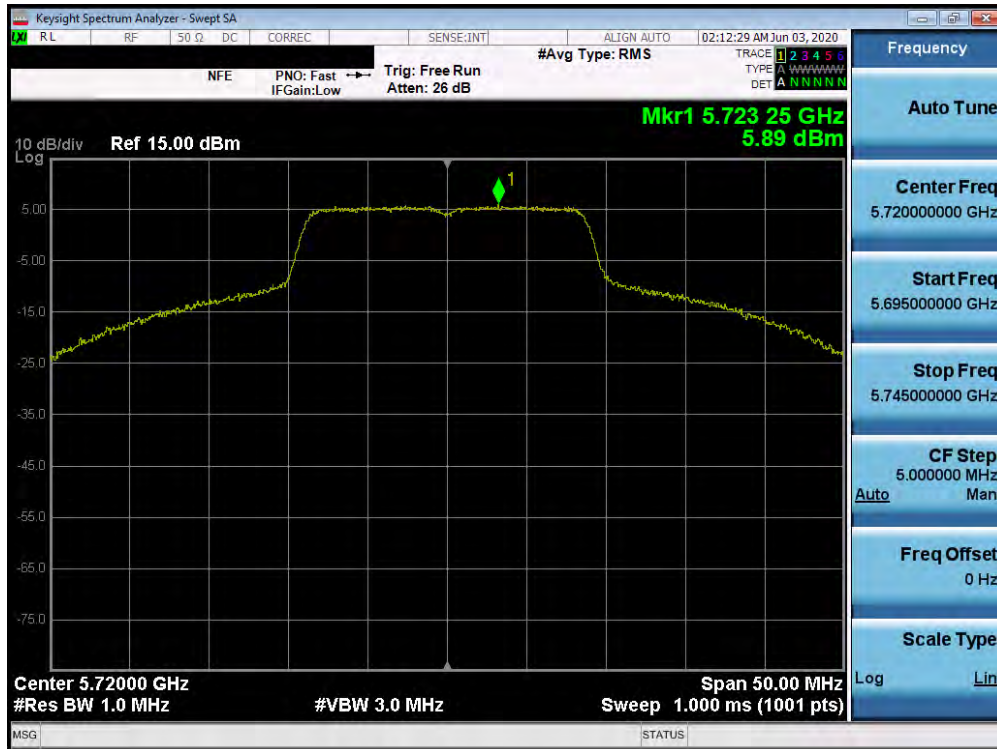


Plot 7-226. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

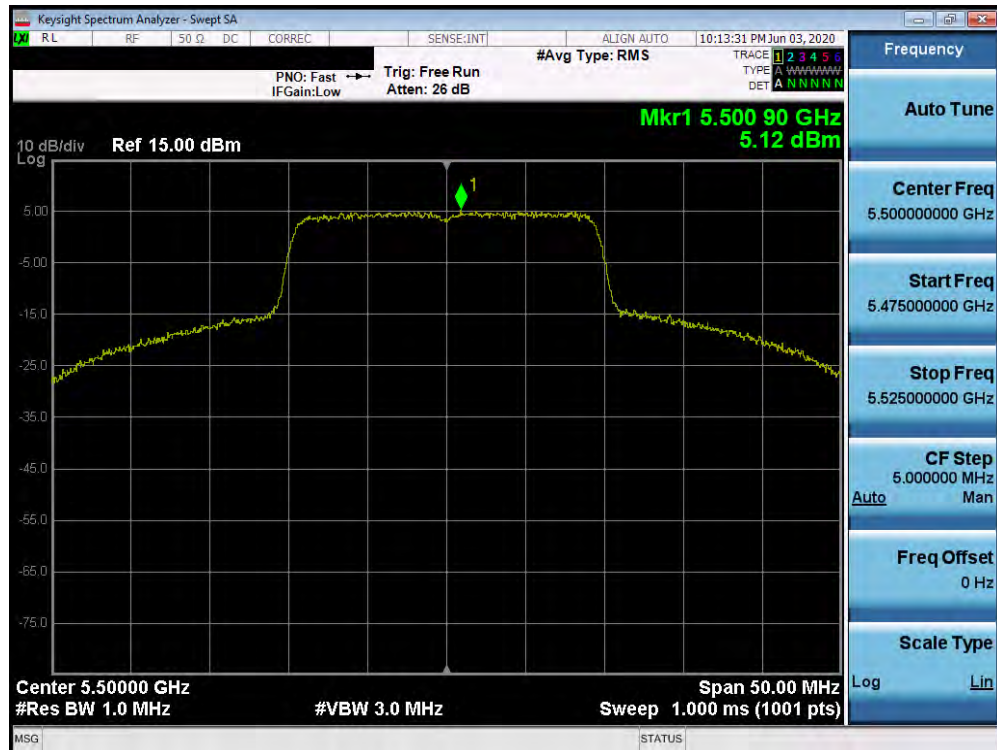


Plot 7-227. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 152 of 234

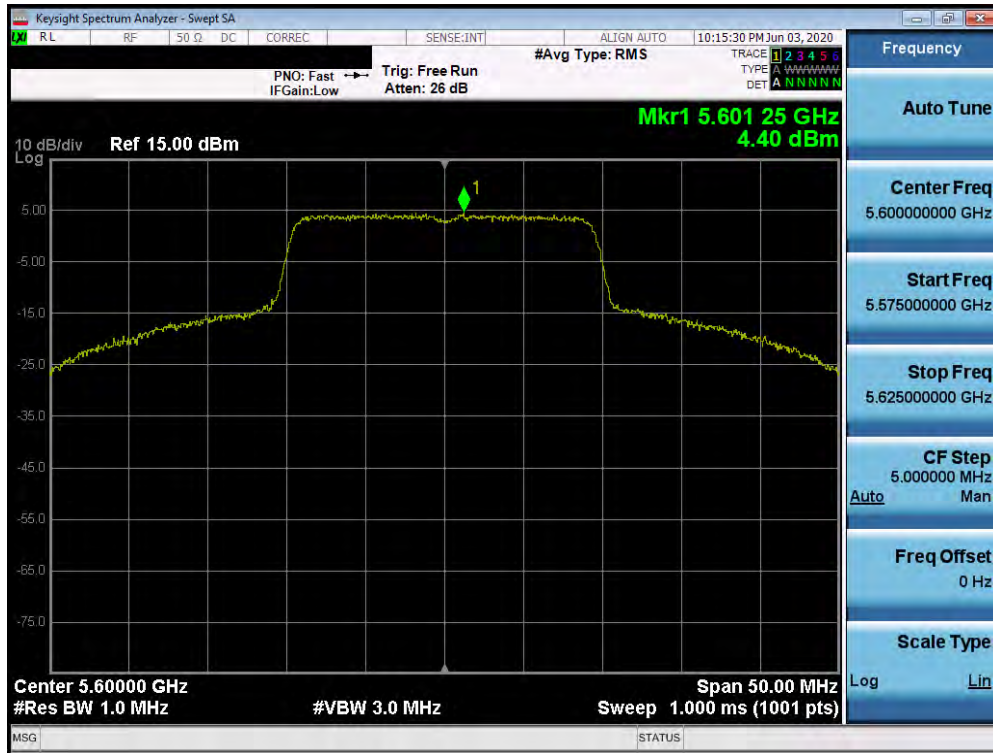


Plot 7-228. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

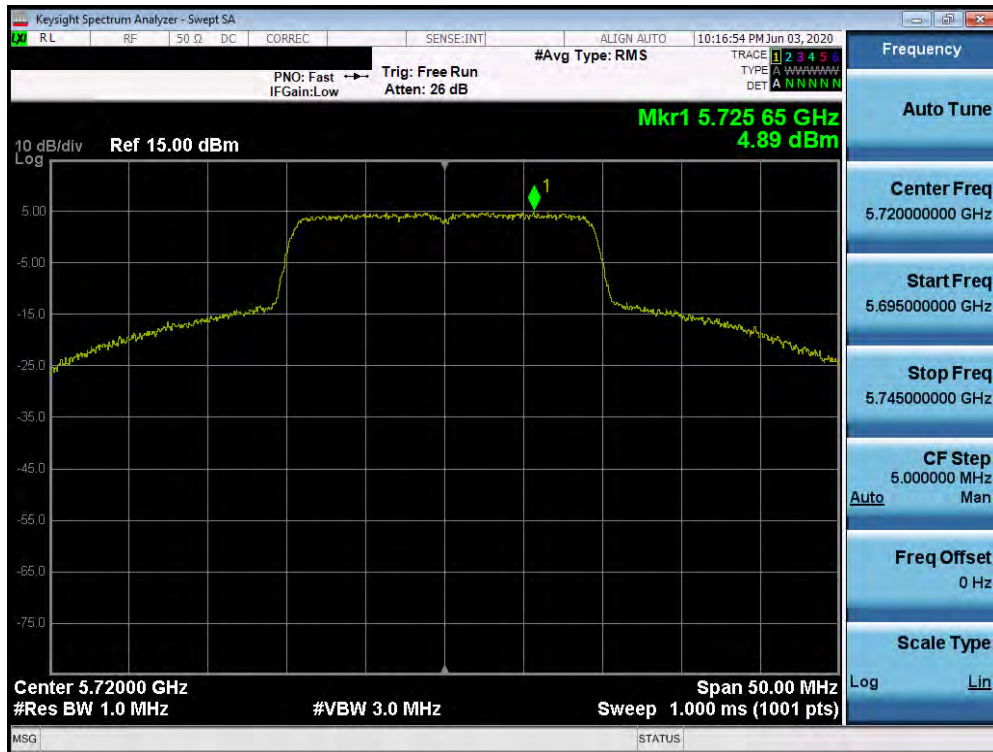


Plot 7-229. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 153 of 234

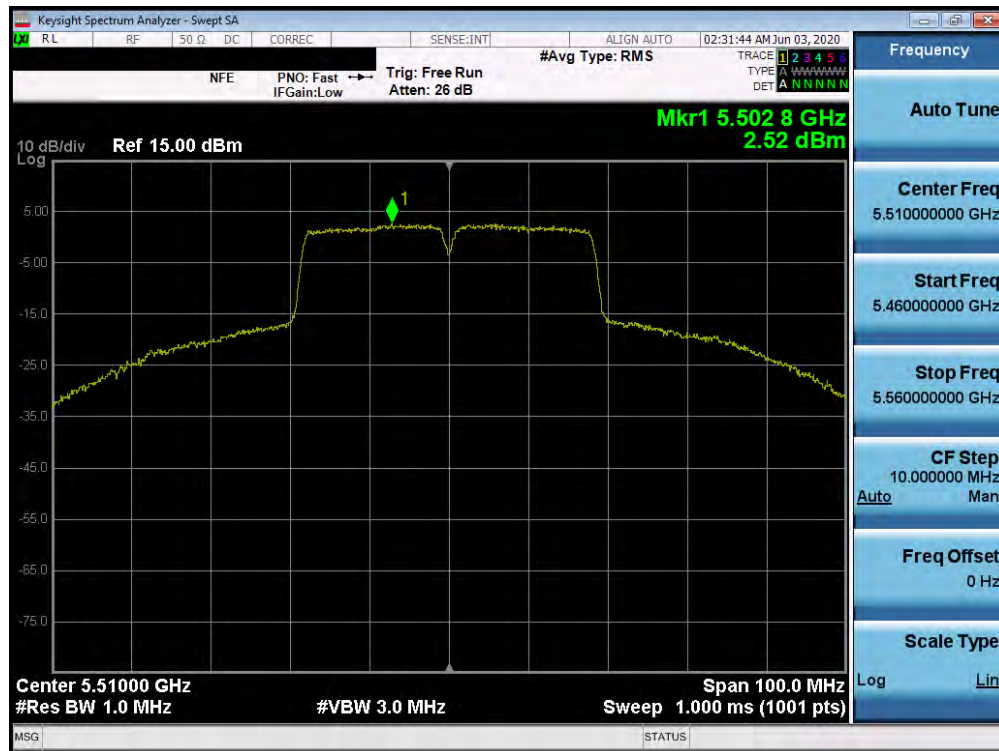


Plot 7-230. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

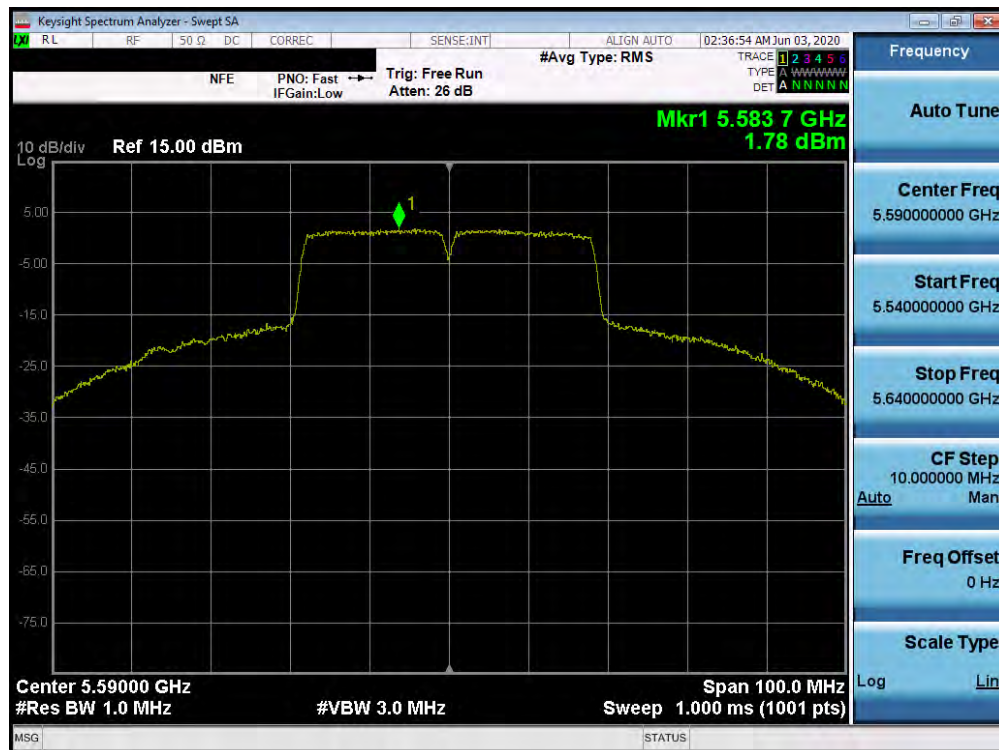


Plot 7-231. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 154 of 234

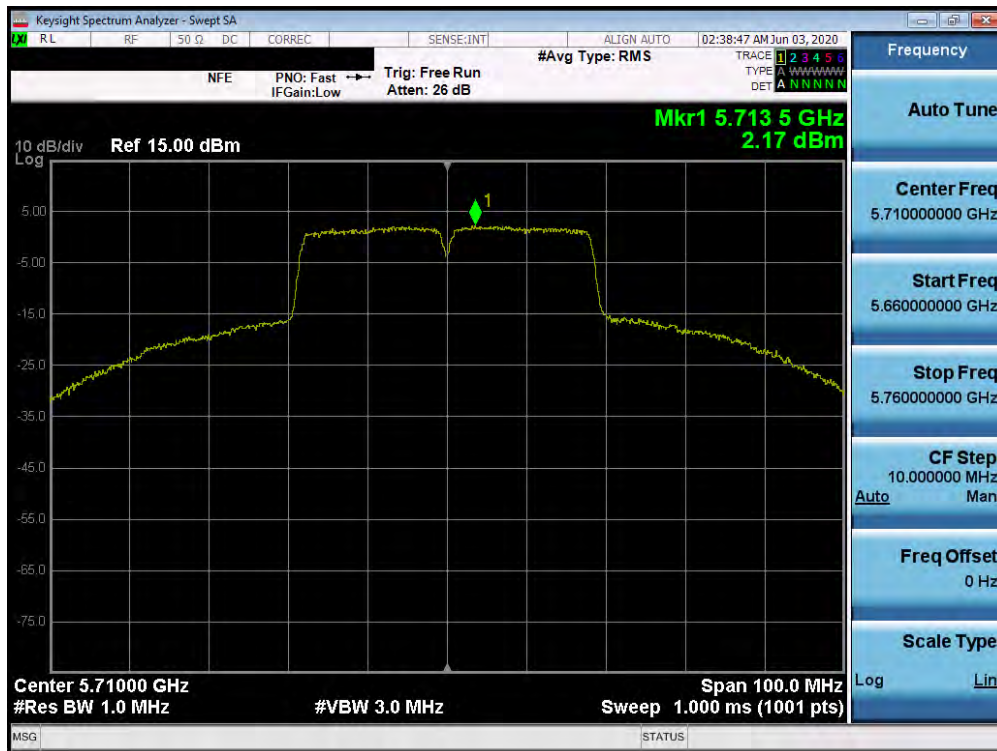


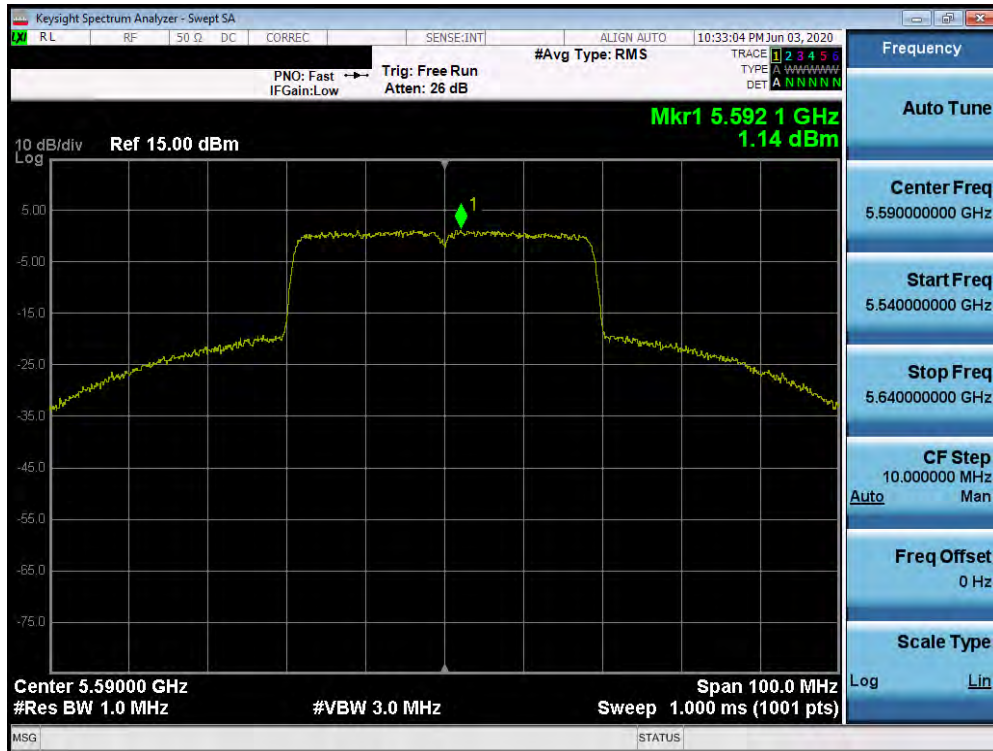
Plot 7-232. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)



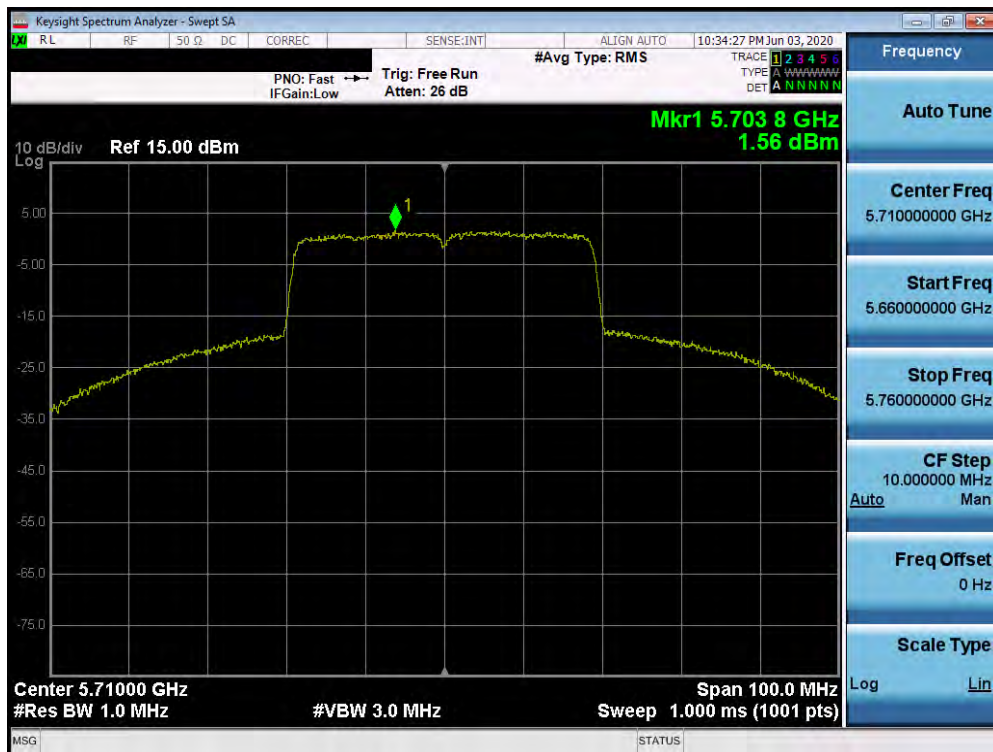
Plot 7-233. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 155 of 234



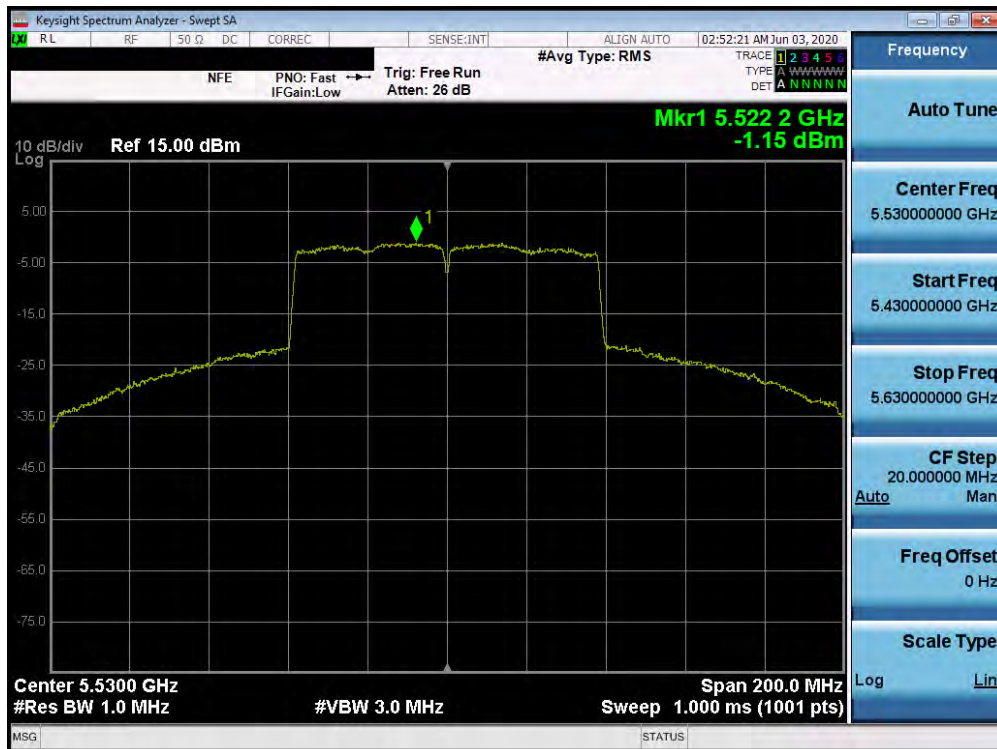


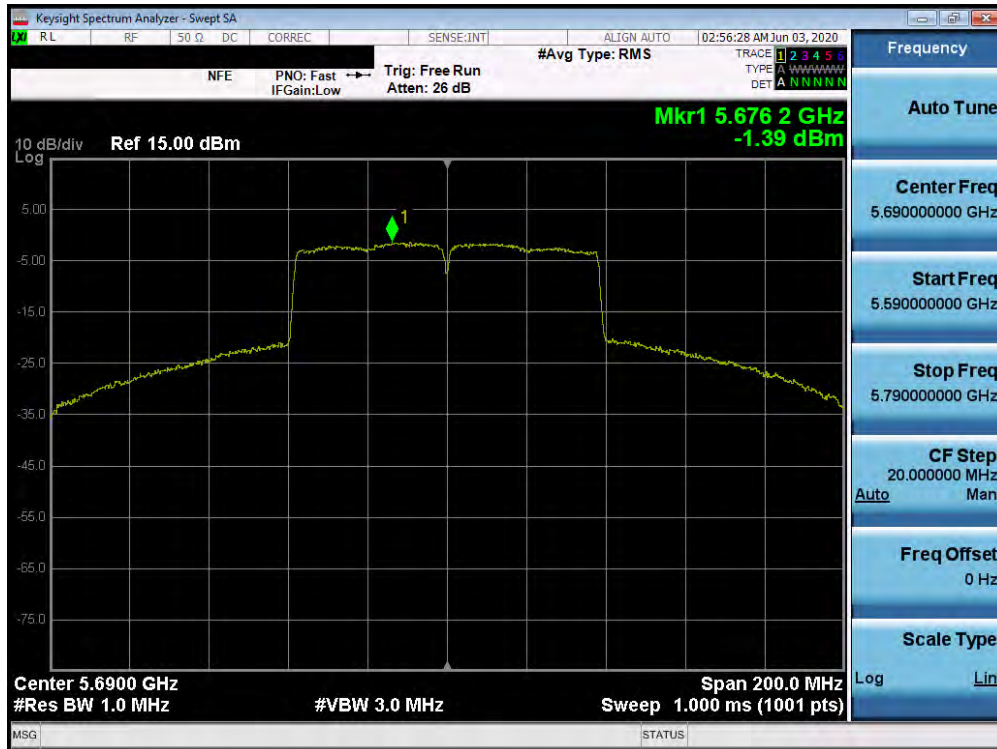
Plot 7-236. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)



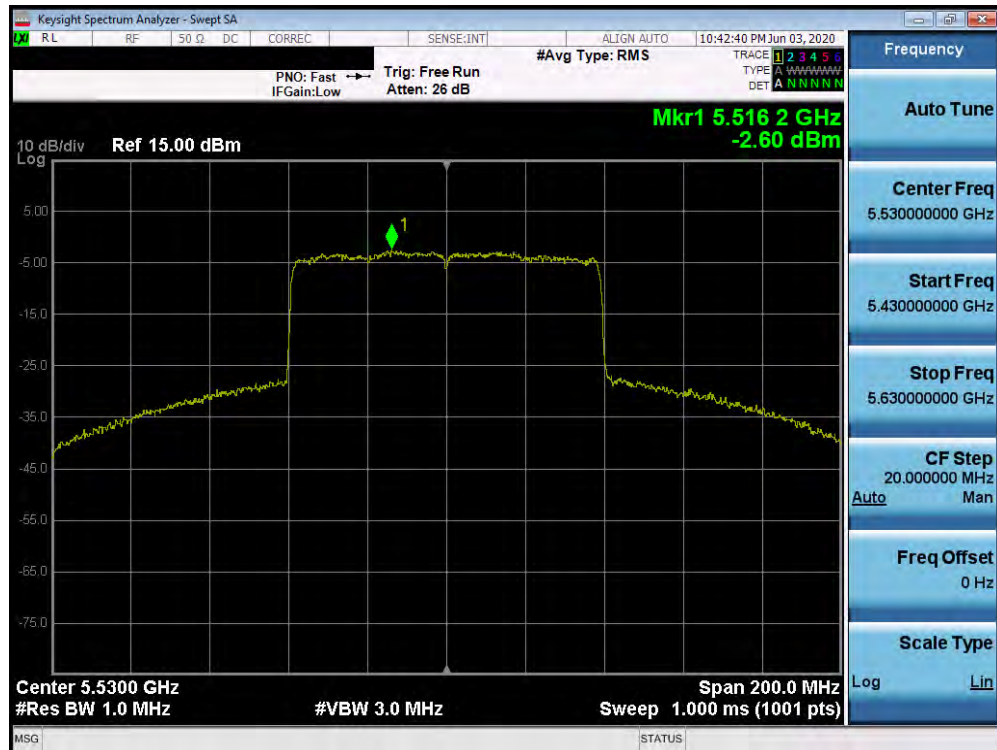
Plot 7-237. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 157 of 234



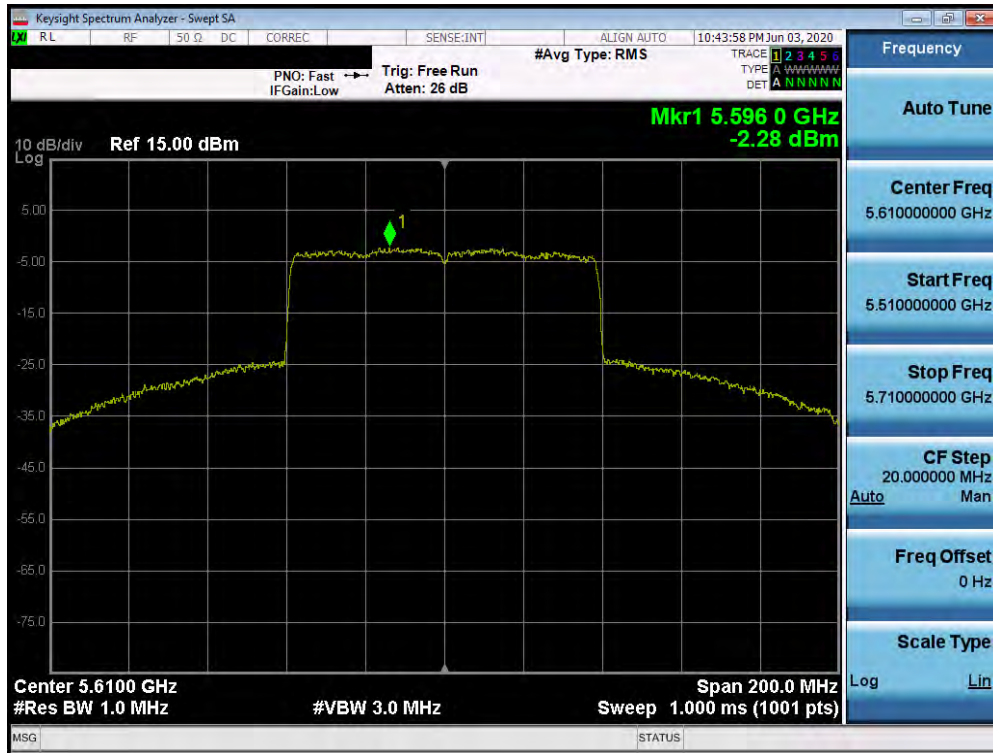


Plot 7-240. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

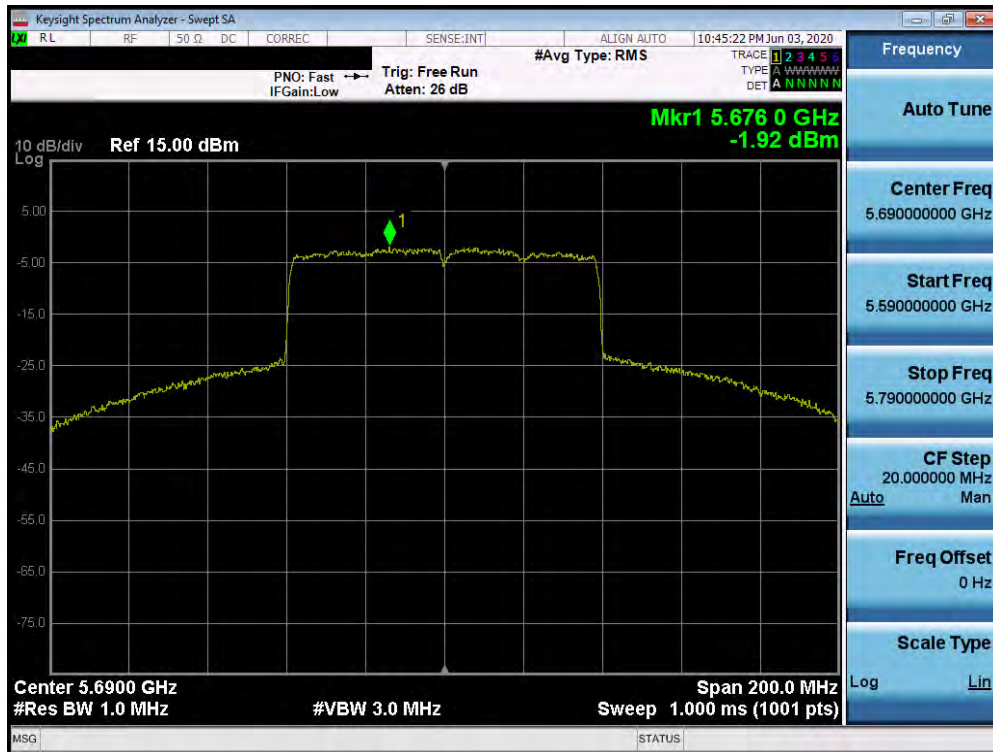


Plot 7-241. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 159 of 234



Plot 7-242. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

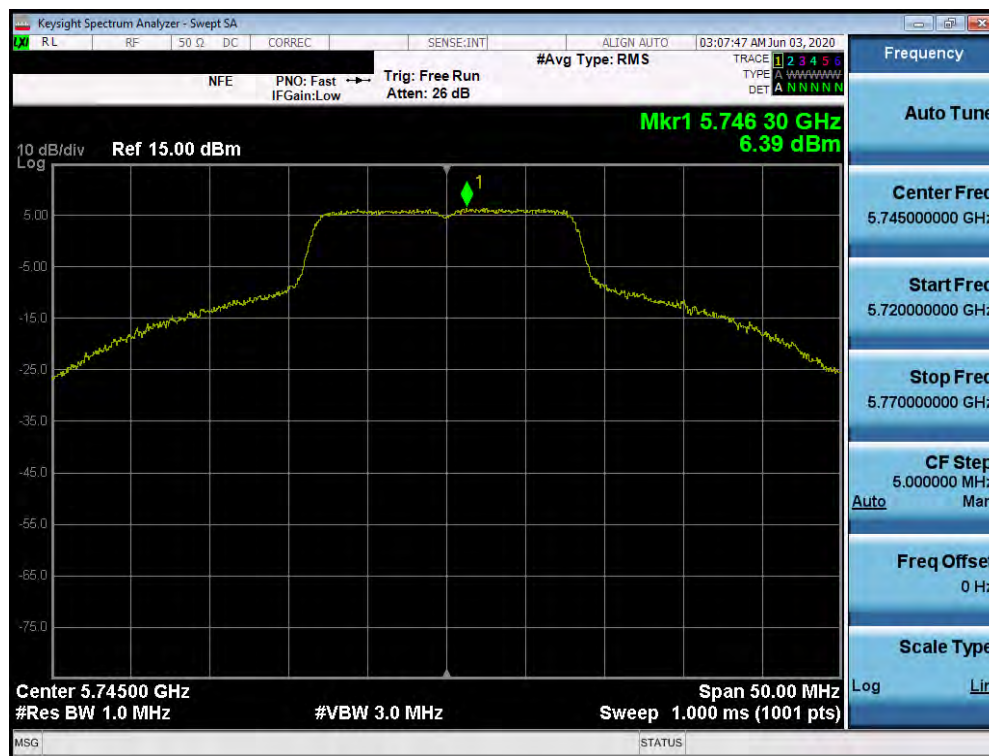


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 160 of 234

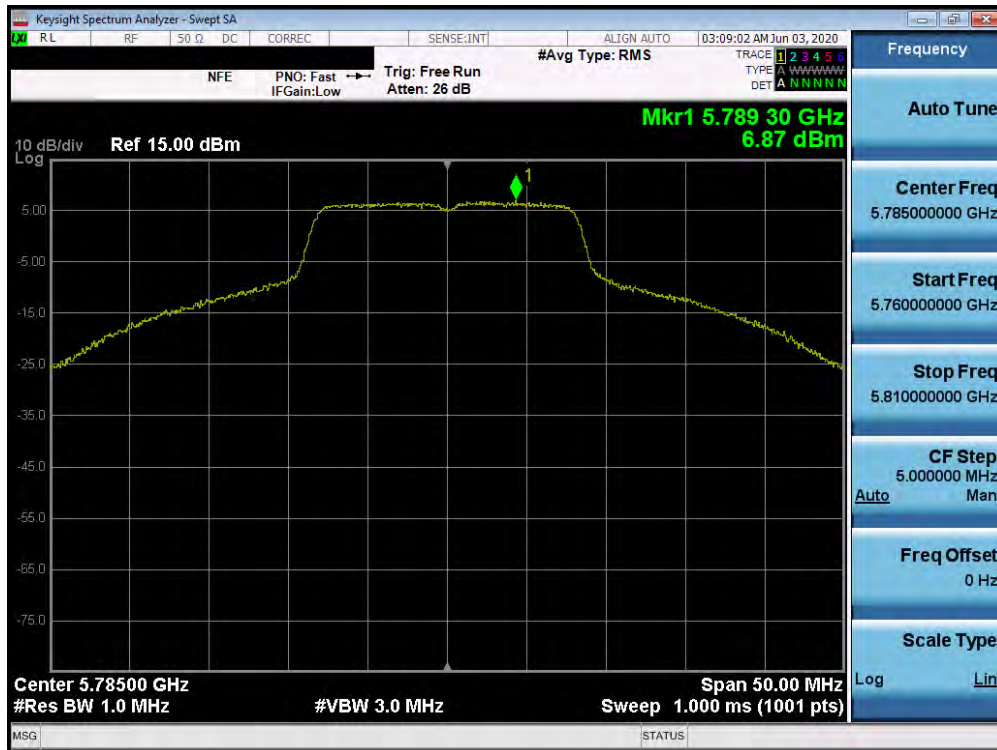
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	6.39	30.0	-23.61
	5785	157	a	6	6.87	30.0	-23.13
	5825	165	a	6	6.41	30.0	-23.59
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.00	30.0	-24.00
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.50	30.0	-23.50
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.06	30.0	-23.94
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.08	30.0	-24.92
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.45	30.0	-24.55
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.35	30.0	-24.65
	5755	151	n (40MHz)	13.5/15 (MCS0)	1.89	30.0	-28.11
	5795	159	n (40MHz)	13.5/15 (MCS0)	1.61	30.0	-28.39
	5755	151	ax (40MHz)	13.5/15 (MCS0)	2.15	30.0	-27.85
	5795	159	ax (40MHz)	13.5/15 (MCS0)	2.22	30.0	-27.78
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.98	30.0	-30.98
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-1.55	30.0	-31.55

Table 7-26. Band 3 Conducted Power Spectral Density Measurements SISO ANT2

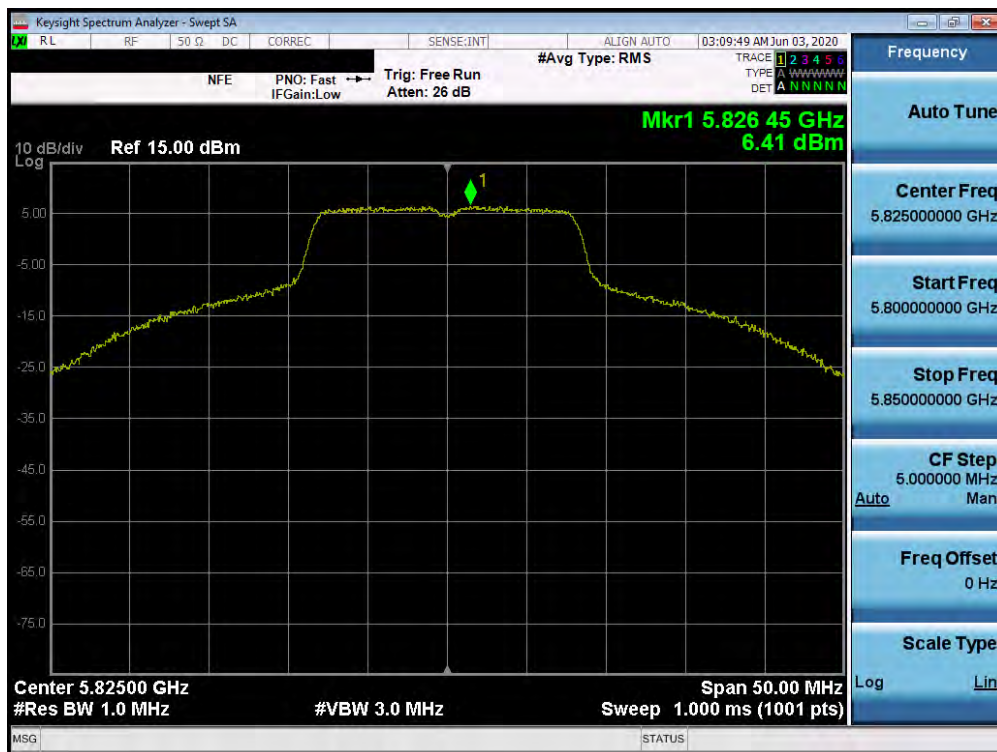


Plot 7-244. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 161 of 234

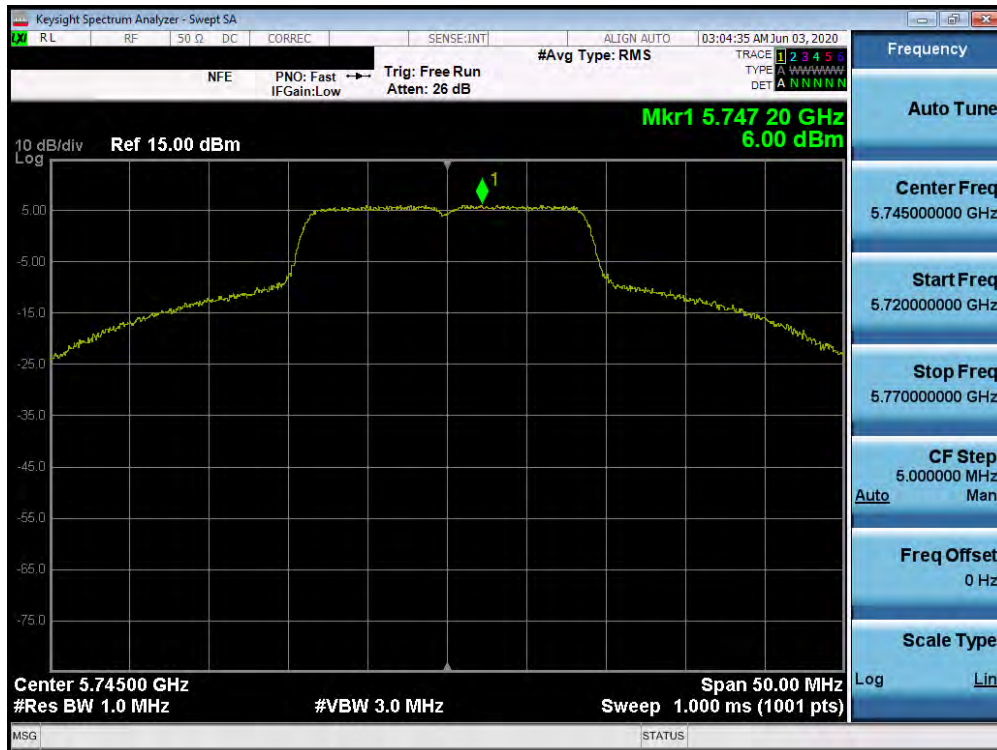


Plot 7-245. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

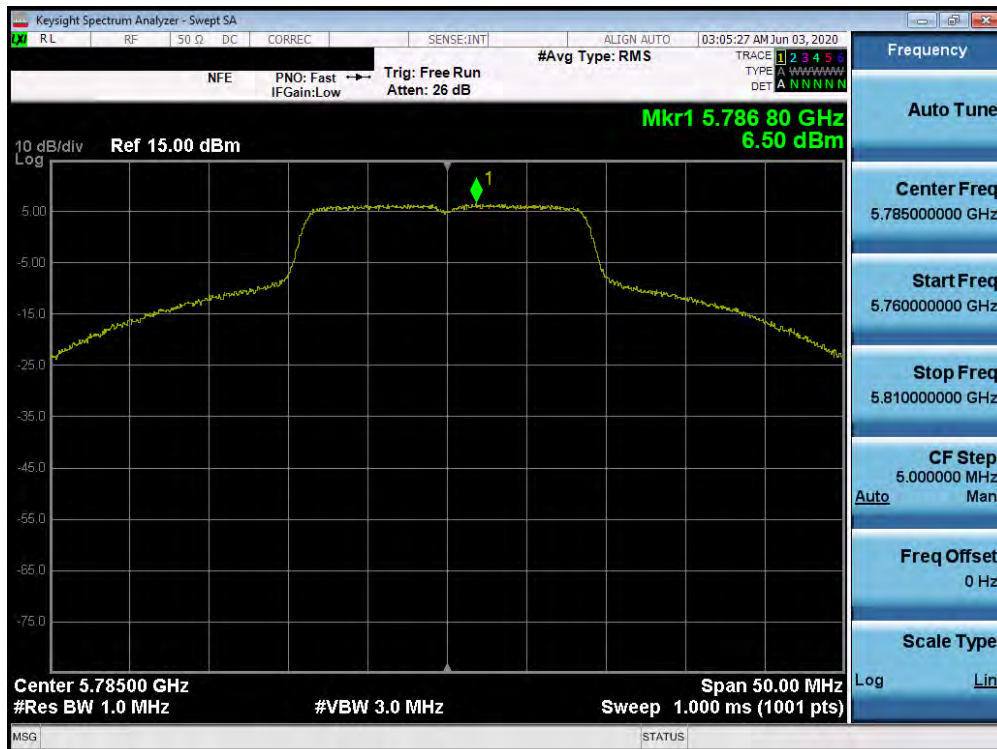


Plot 7-246. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 162 of 234

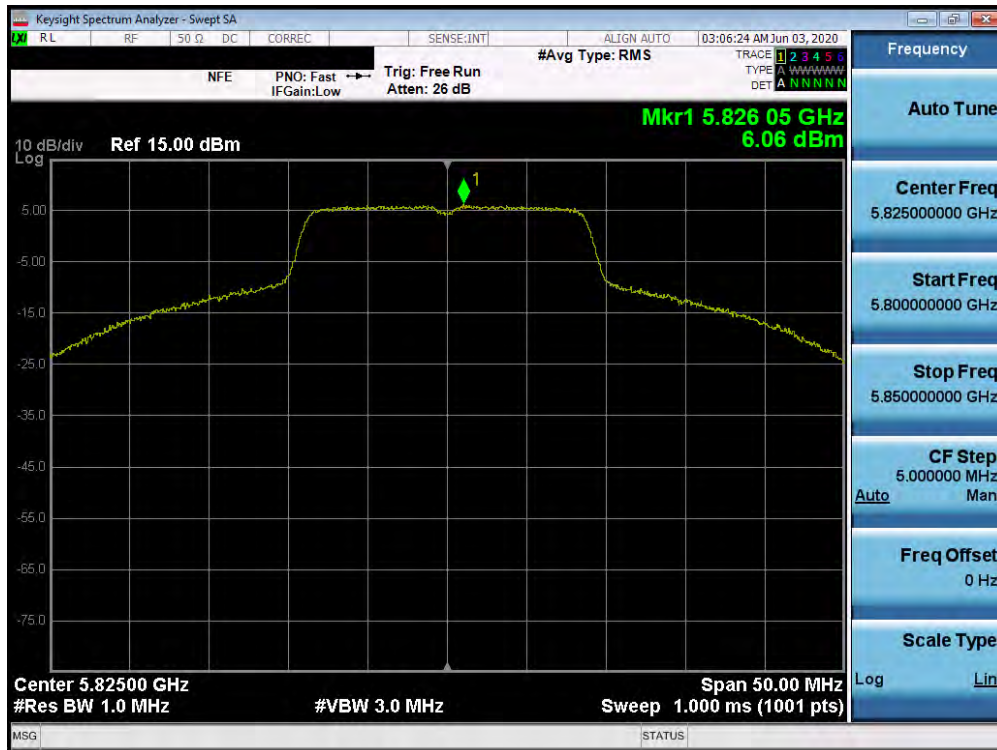


Plot 7-247. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

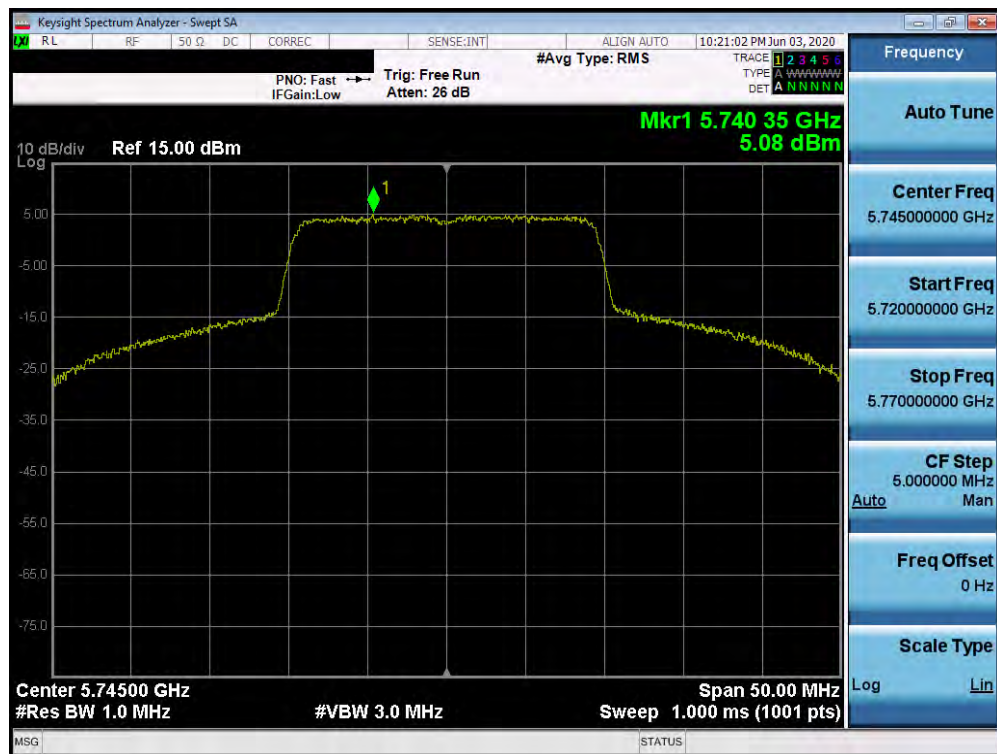


Plot 7-248. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 163 of 234



Plot 7-249. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)



Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004170065-09-R2.A3L	Test Dates: 4/17 - 6/12/2020	EUT Type: Portable Handset		Page 164 of 234