

Plot 7-189. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 151 of 514

SISO Antenna-1 Power Spectral Density Measurements (242 Tones)

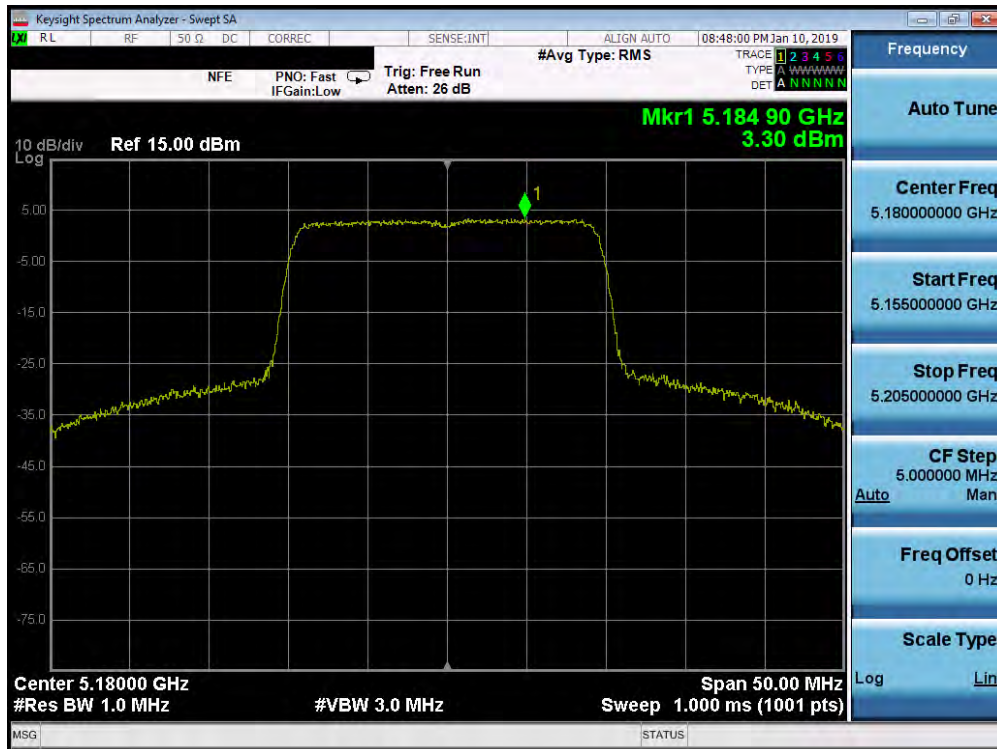
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	11.00	-7.70
	5200	40	ax (20MHz)	242T	MCS0	6.19	11.00	-4.81
	5240	48	ax (20MHz)	242T	MCS0	7.55	11.00	-3.45
	5190	38	ax (40MHz)	242T	MCS0	0.89	11.00	-10.11
	5230	46	ax (40MHz)	242T	MCS0	5.37	11.00	-5.63
	5210	42	ax (80MHz)	242T	MCS0	-0.57	11.00	-11.57
Band 2A	5260	52	ax (20MHz)	242T	MCS0	7.56	11.00	-3.44
	5280	56	ax (20MHz)	242T	MCS0	8.05	11.00	-2.95
	5320	64	ax (20MHz)	242T	MCS0	5.00	11.00	-6.00
	5270	54	ax (40MHz)	242T	MCS0	5.39	11.00	-5.61
	5310	62	ax (40MHz)	242T	MCS0	0.39	11.00	-10.61
	5290	58	ax (80MHz)	242T	MCS0	-0.54	11.00	-11.54
Band 2C	5500	100	ax (20MHz)	242T	MCS0	7.93	11.00	-3.07
	5600	120	ax (20MHz)	242T	MCS0	6.54	11.00	-4.46
	5720	144	ax (20MHz)	242T	MCS0	6.66	11.00	-4.34
	5510	102	ax (40MHz)	242T	MCS0	0.11	11.00	-10.89
	5590	118	ax (40MHz)	242T	MCS0	4.24	11.00	-6.76
	5710	142	ax (40MHz)	242T	MCS0	4.61	11.00	-6.39
	5530	106	ax (80MHz)	242T	MCS0	0.64	11.00	-10.36
	5610	122	ax (80MHz)	242T	MCS0	6.19	11.00	-4.81
	5690	138	ax (80MHz)	242T	MCS0	6.44	11.00	-4.56

Table 7-72. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

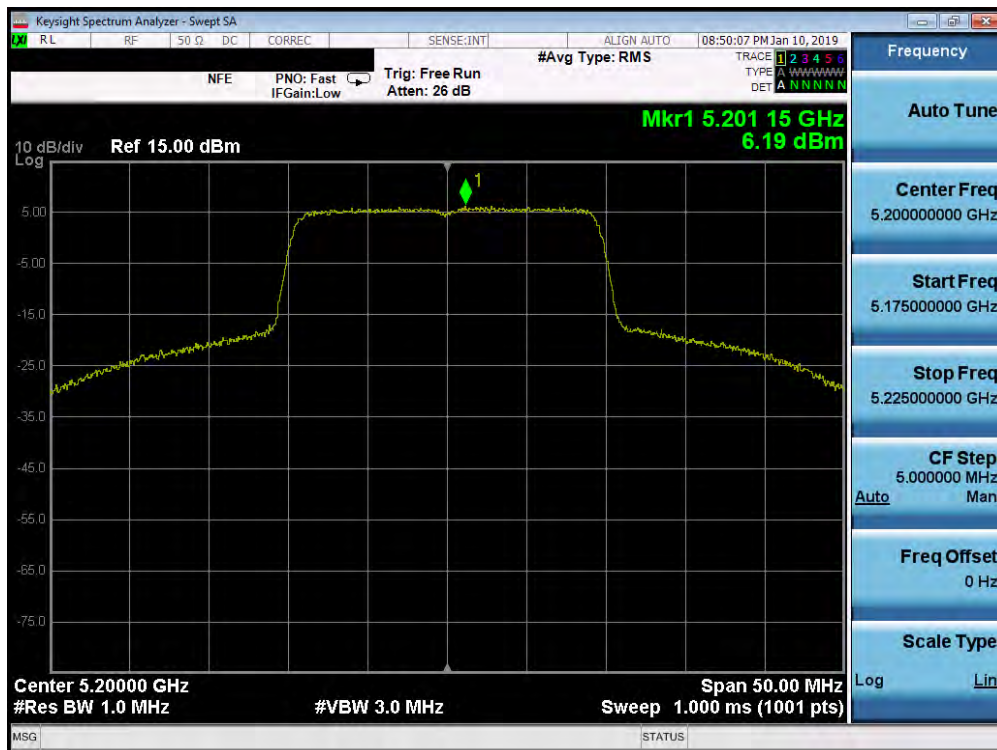
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	-7.94	-4.64	10.0	-14.64
	5200	40	ax (20MHz)	242T	MCS0	6.19	-7.51	-1.32	10.0	-11.32
	5240	48	ax (20MHz)	242T	MCS0	7.55	-7.44	0.11	10.0	-9.89
	5190	38	ax (40MHz)	242T	MCS0	0.89	-7.94	-7.05	10.0	-17.05
	5230	46	ax (40MHz)	242T	MCS0	5.37	-7.44	-2.07	10.0	-12.07
	5210	42	ax (80MHz)	242T	MCS0	-0.57	-7.94	-8.51	10.0	-18.51

Table 7-73. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

FCC ID: A3LSMG9730	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	
			Page 152 of 514

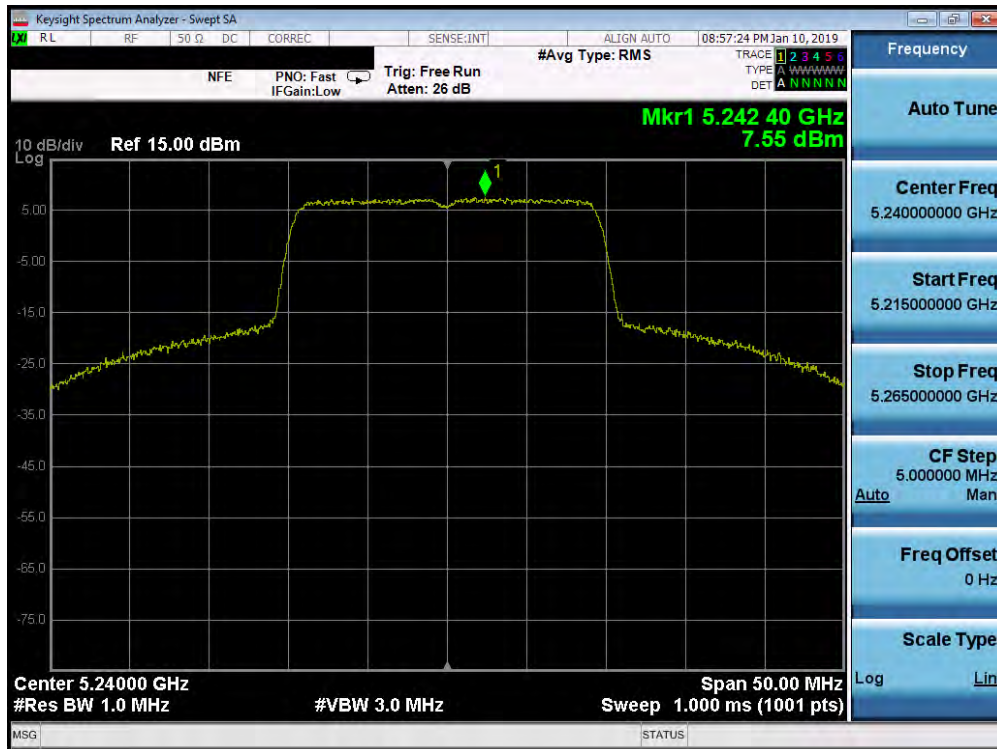


Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

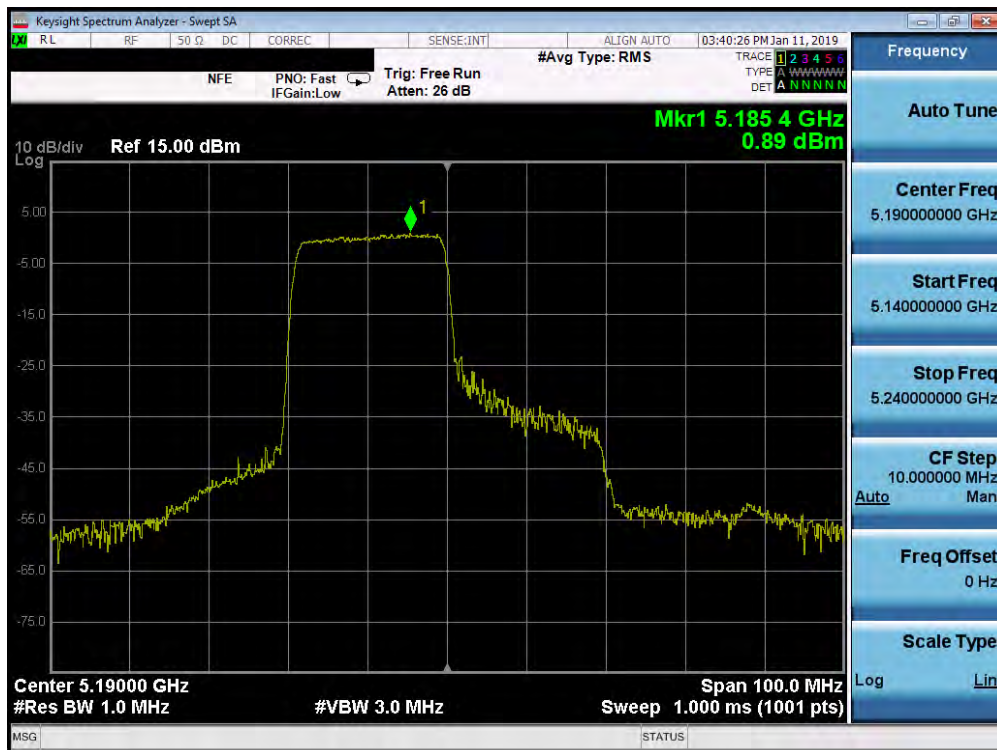


Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 153 of 514

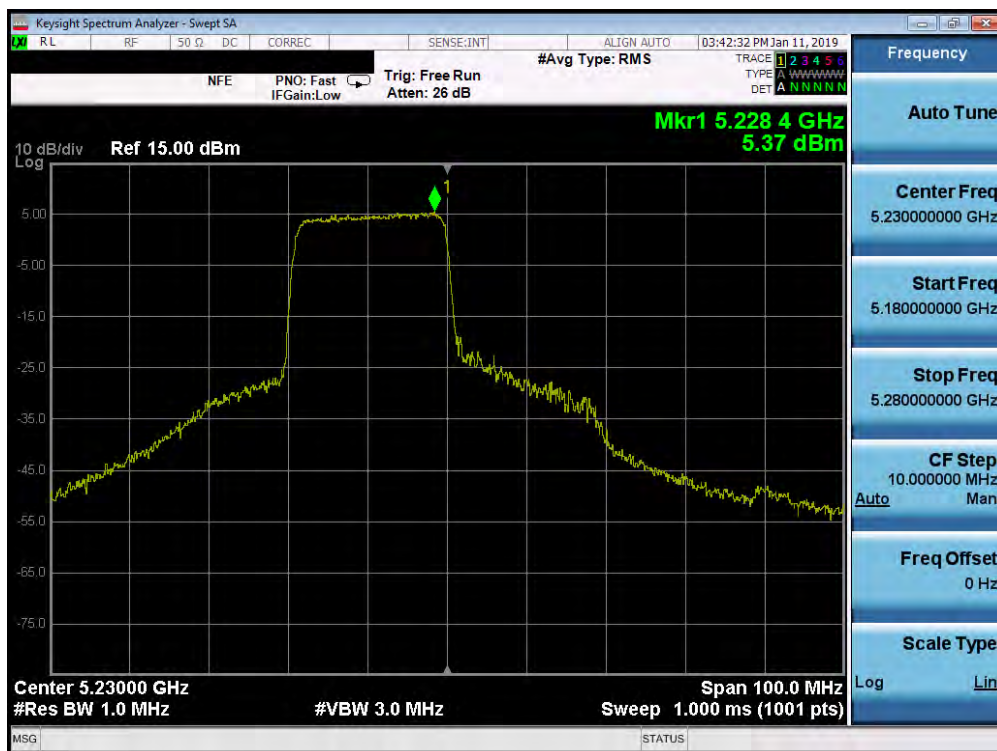


Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

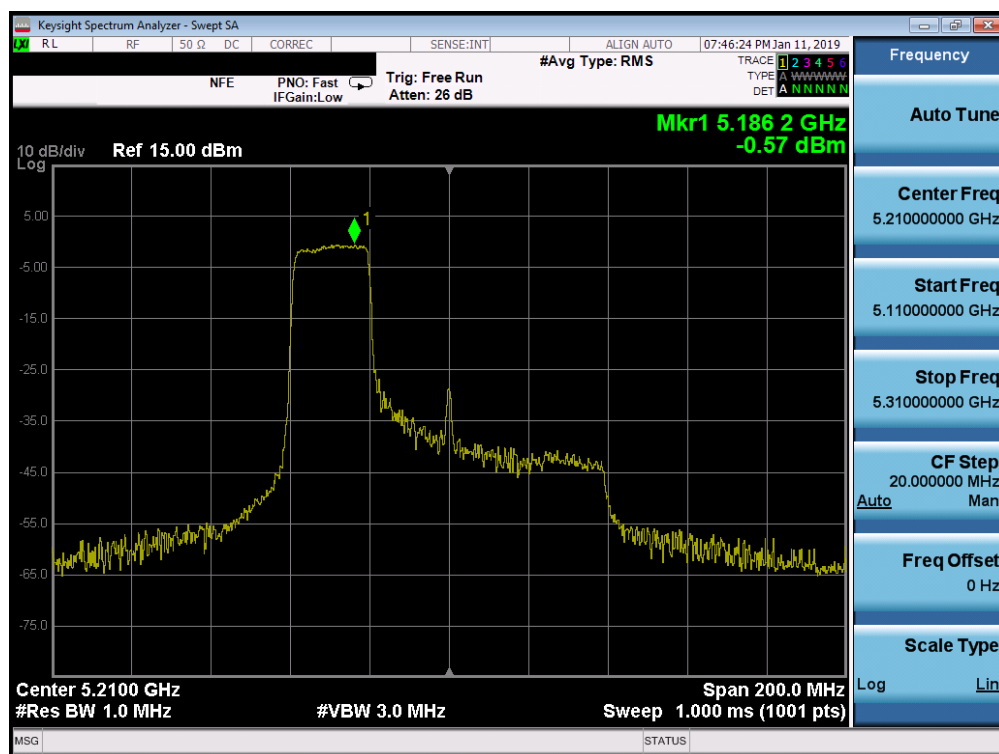


Plot 7-193. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 154 of 514

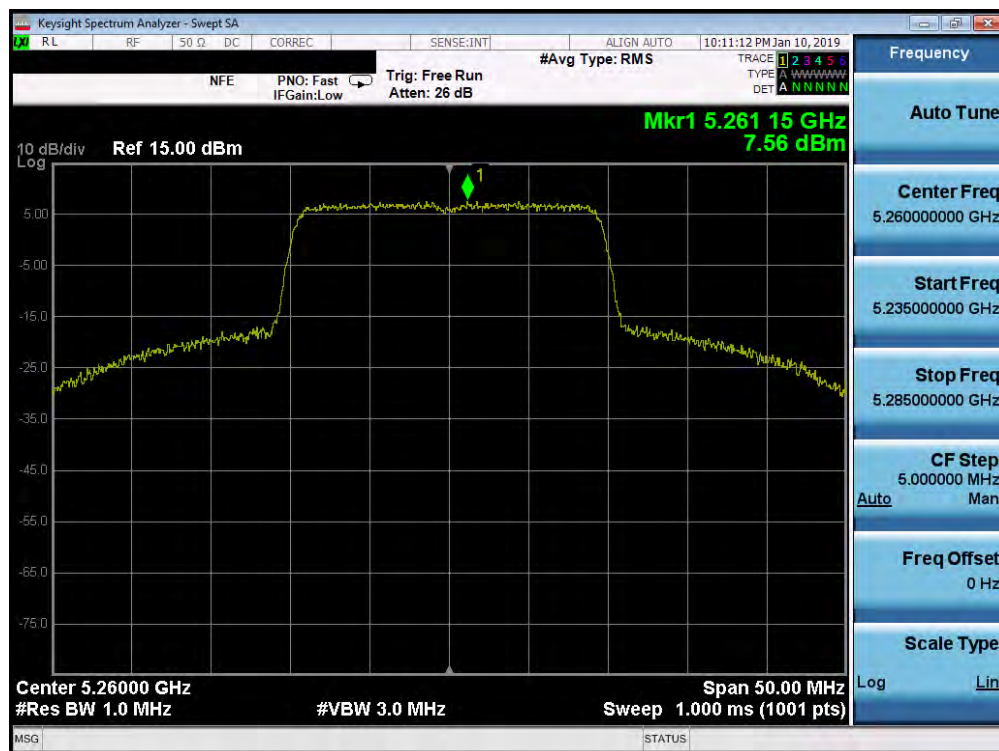


Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

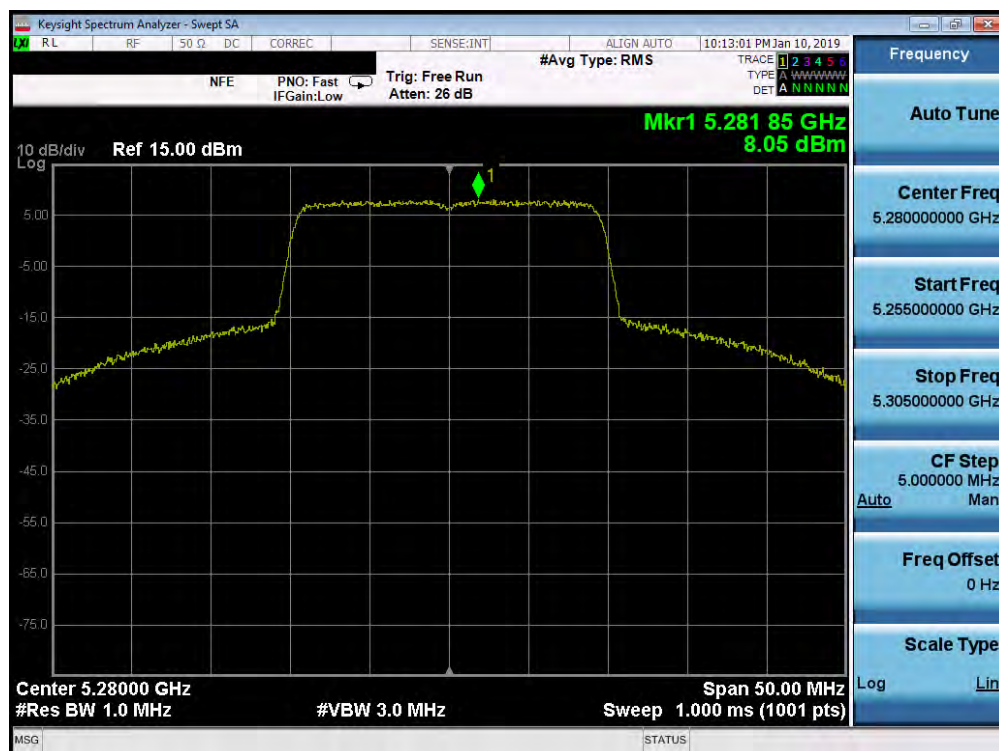


Plot 7-195. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG9730	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	Page 155 of 514

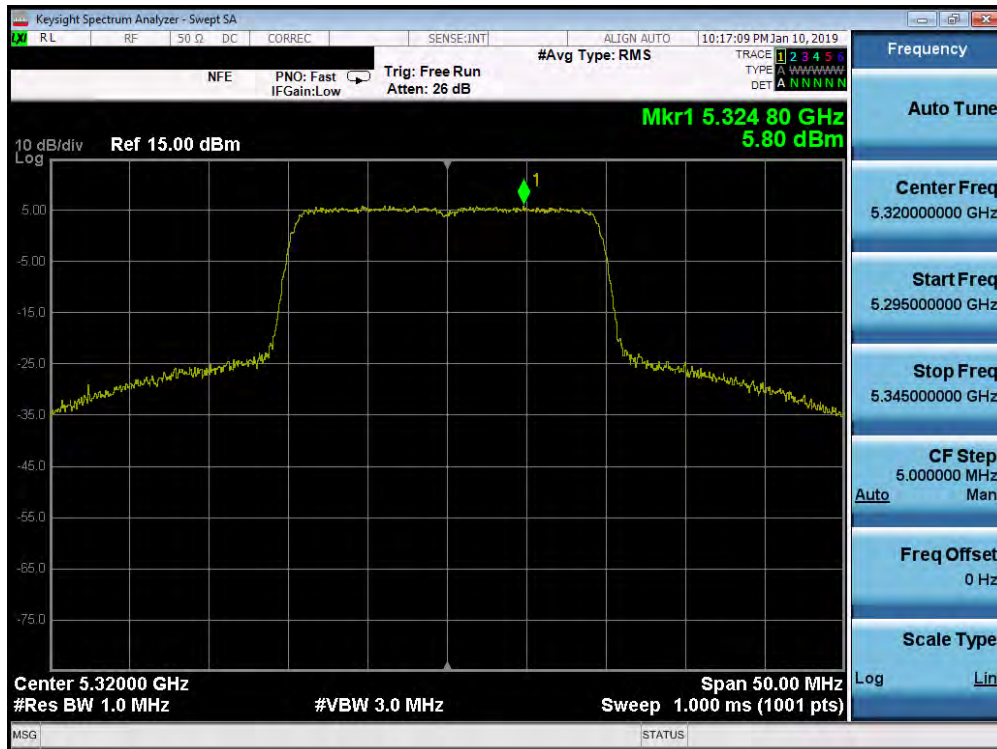


Plot 7-196. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

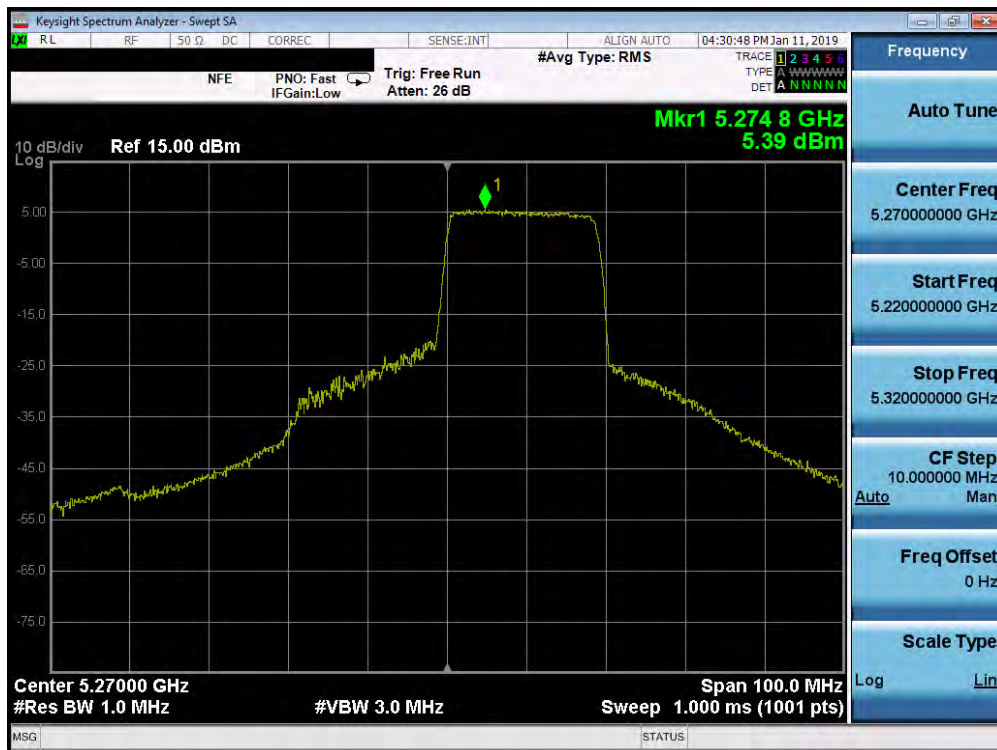


Plot 7-197. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 156 of 514

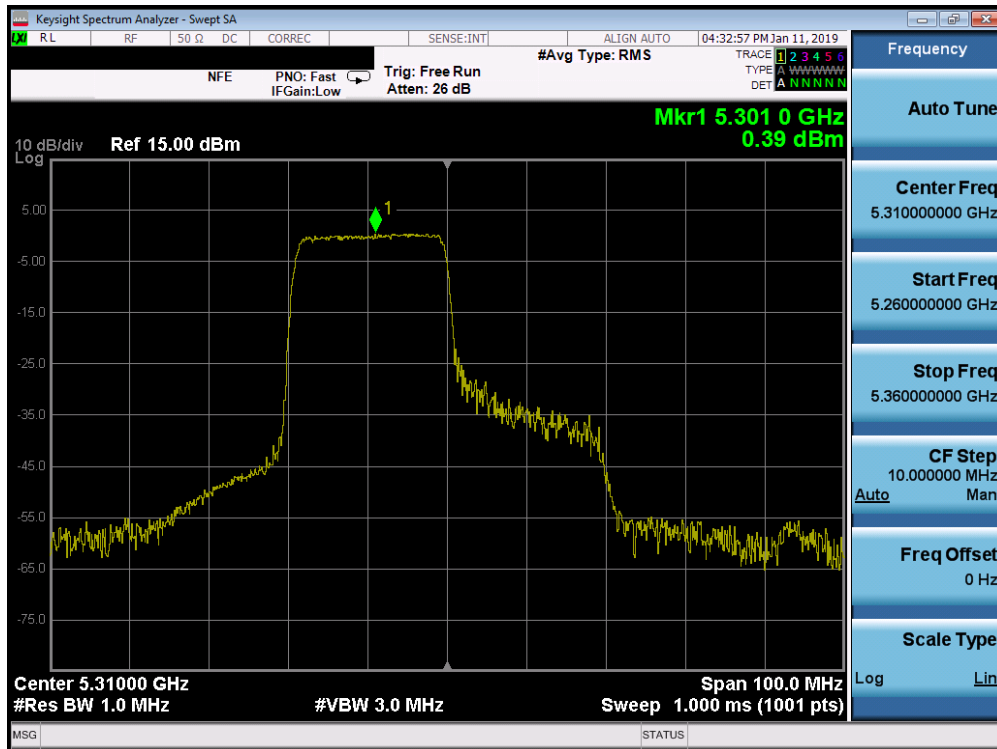


Plot 7-198. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

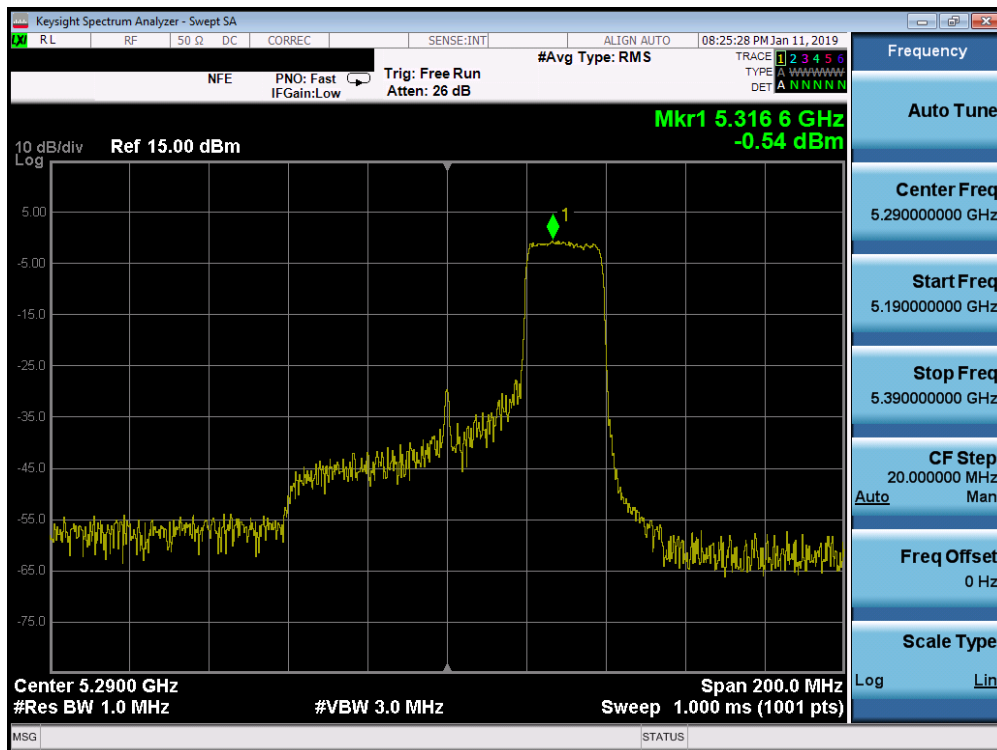


Plot 7-199. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 157 of 514

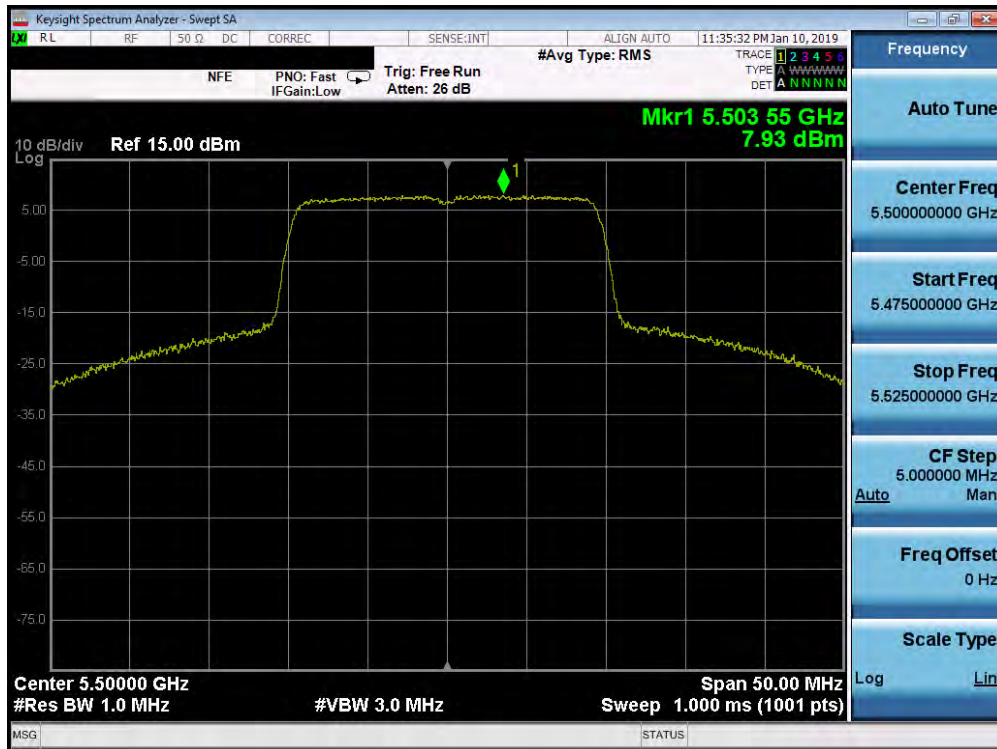


Plot 7-200. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

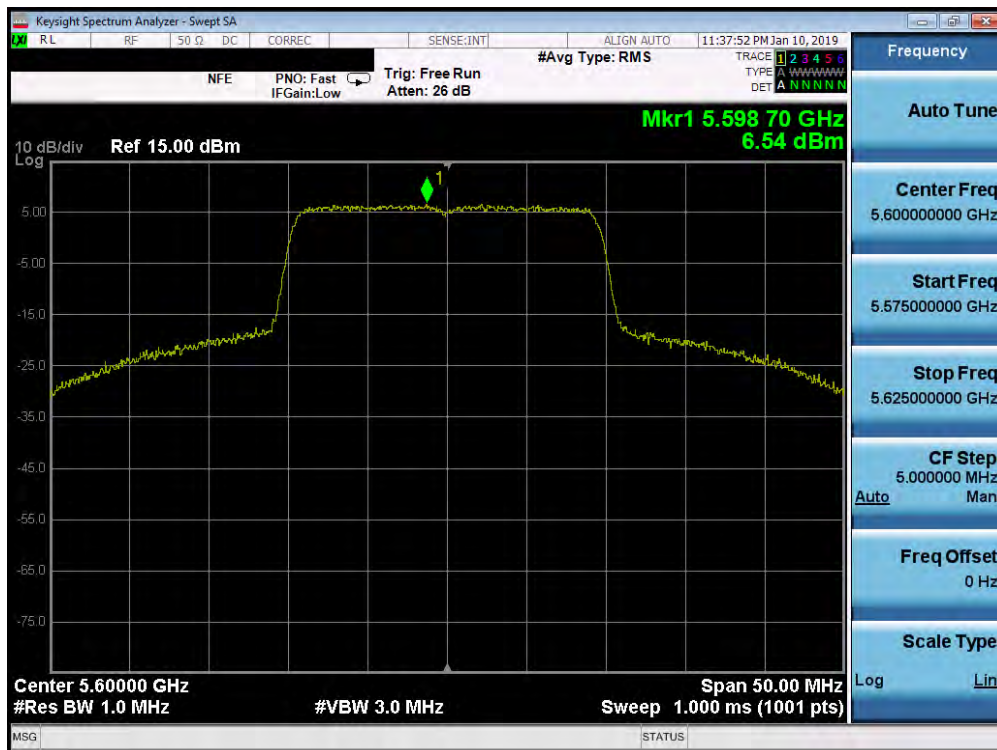


Plot 7-201. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 158 of 514

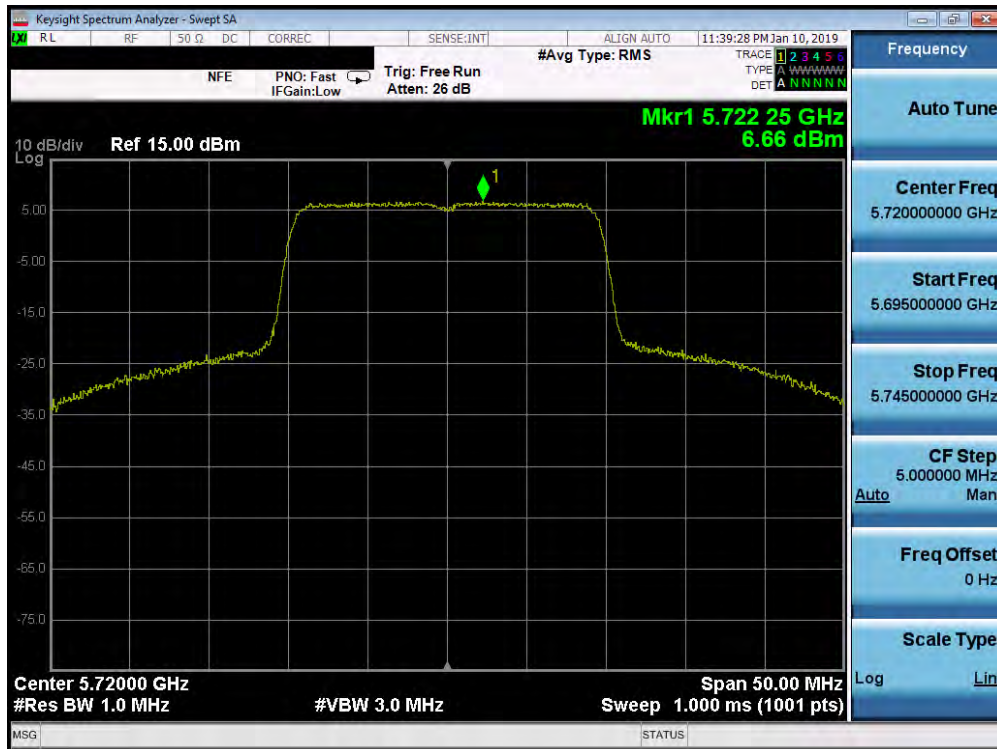


Plot 7-202. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

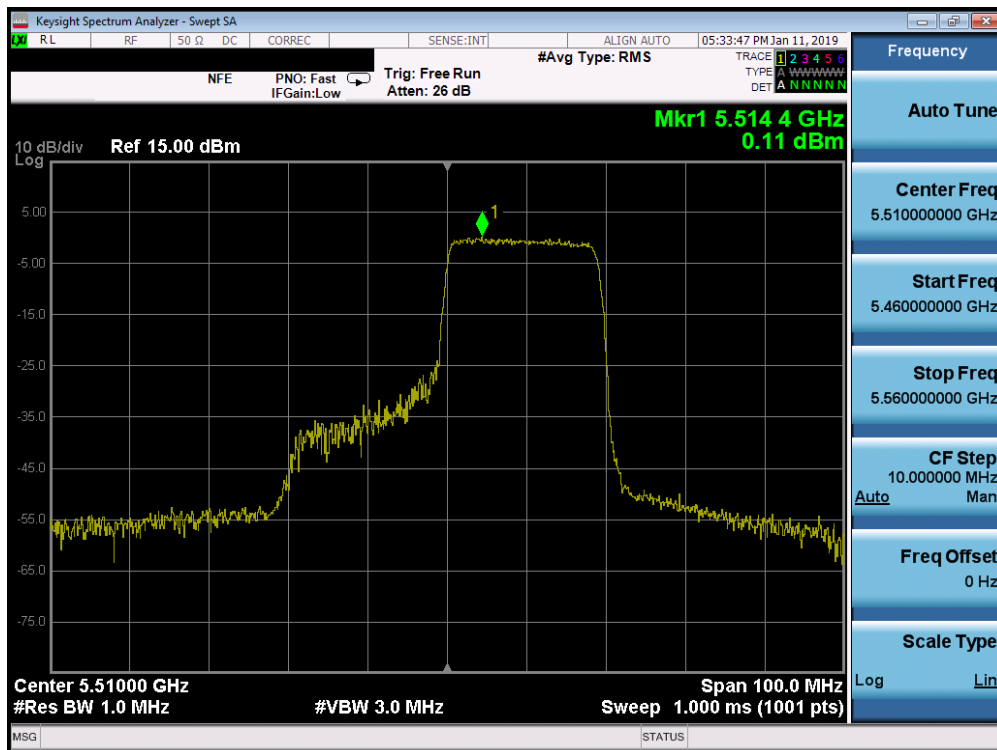


Plot 7-203. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 159 of 514

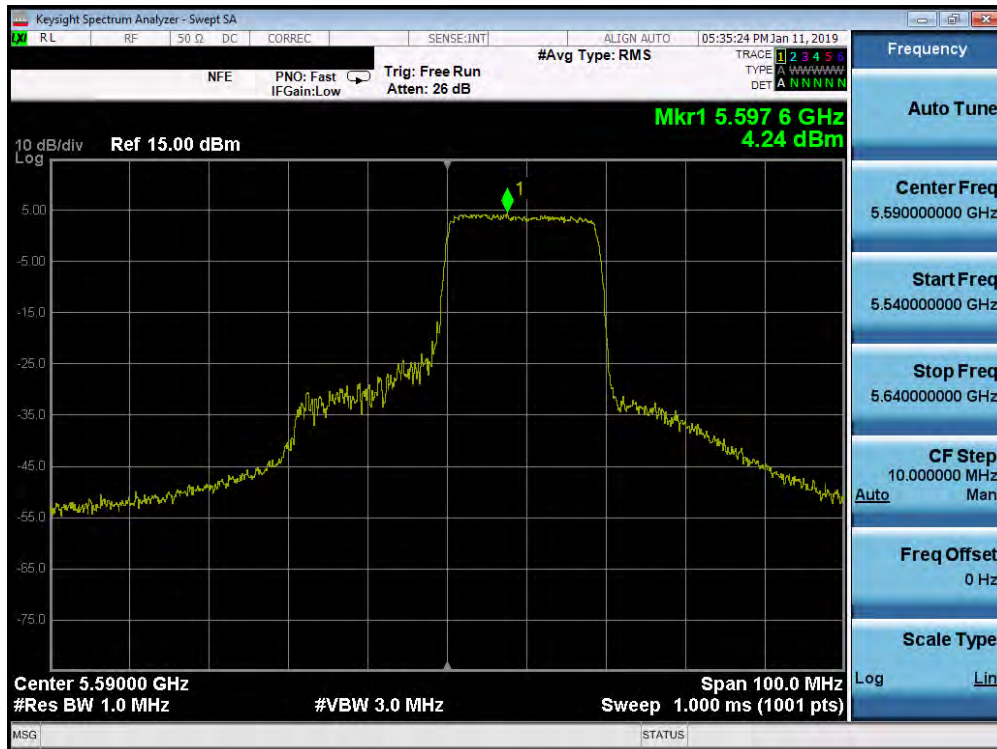


Plot 7-204. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

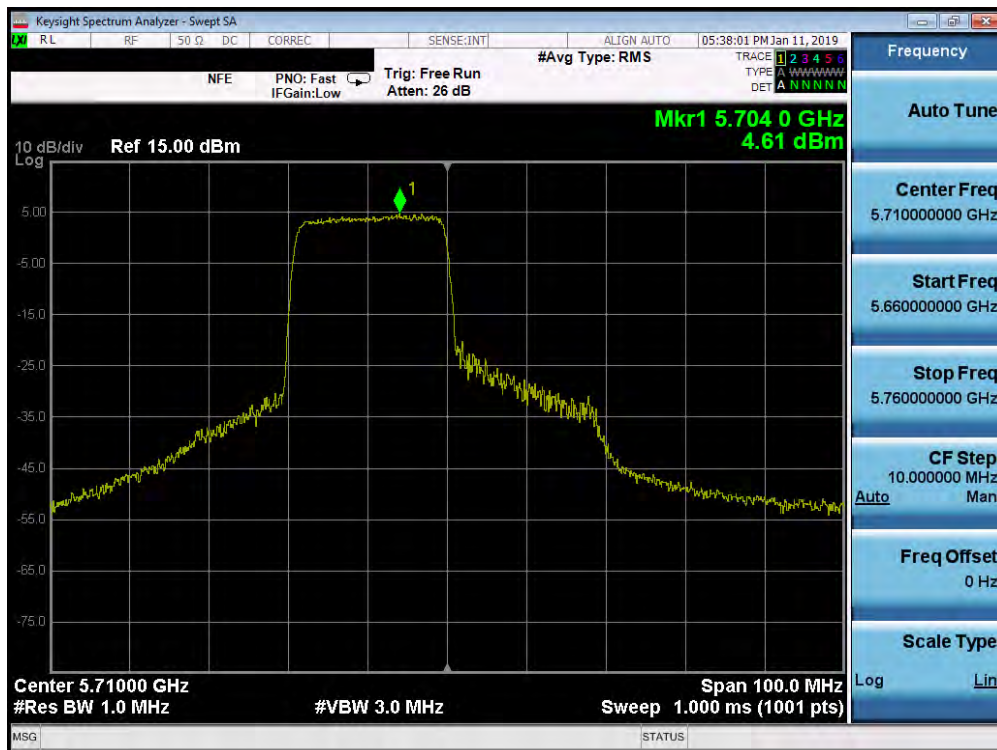


Plot 7-205. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 160 of 514

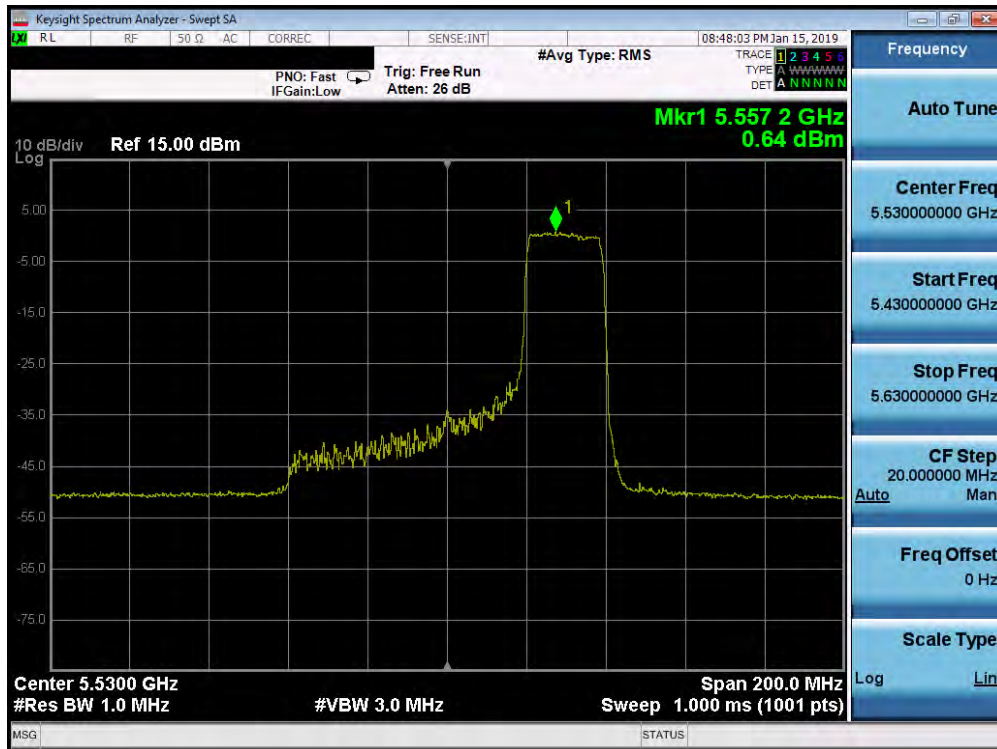


Plot 7-206. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)



Plot 7-207. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 161 of 514

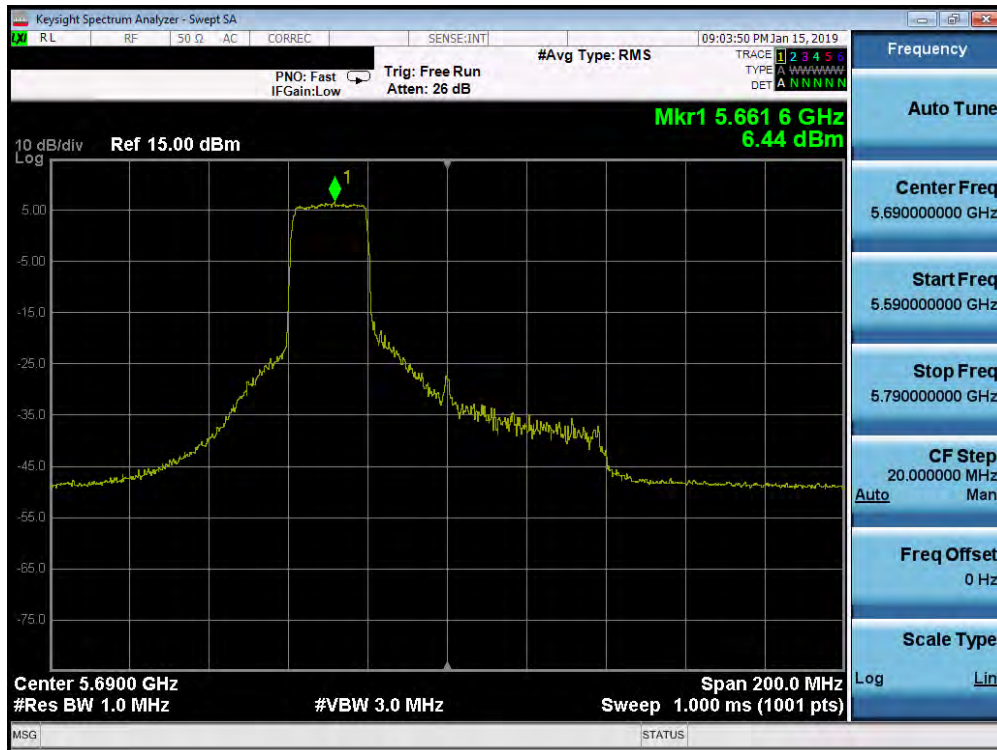


Plot 7-208. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 162 of 514

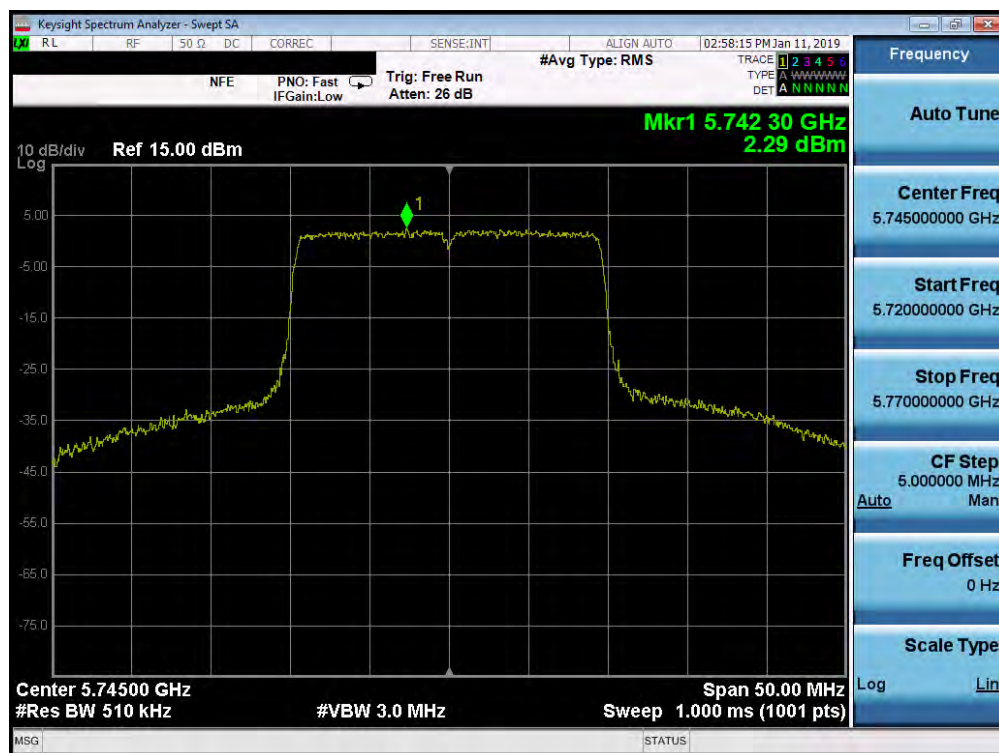


Plot 7-210. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 163 of 514

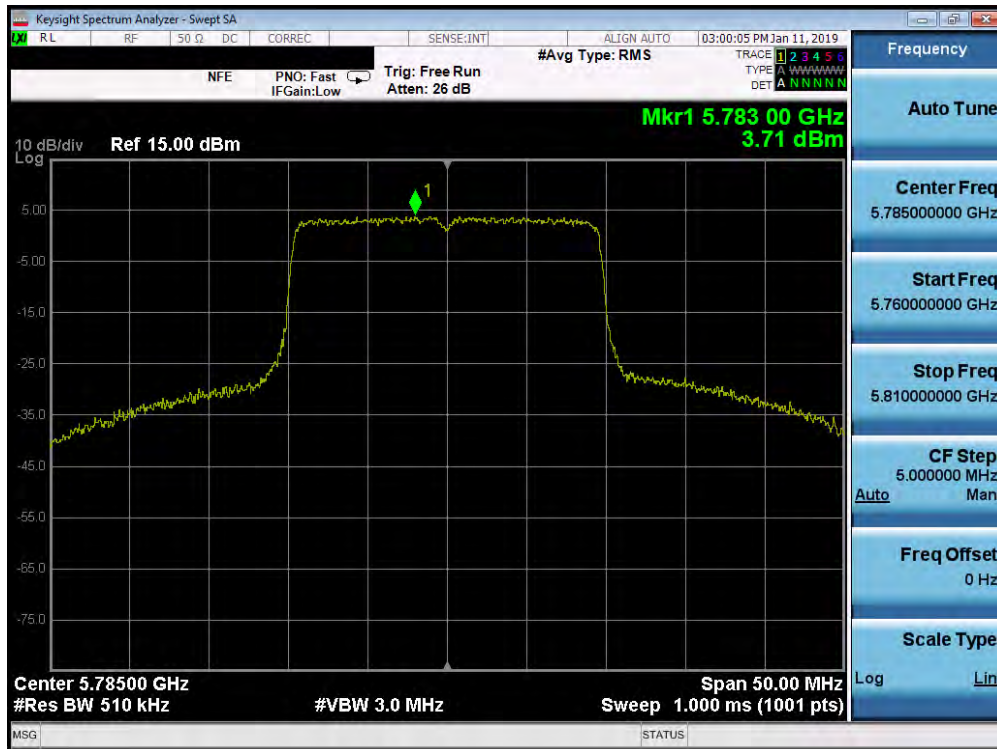
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.29	30.00	-27.71
	5785	157	ax (20MHz)	242T	MCS0	3.71	30.00	-26.29
	5825	165	ax (20MHz)	242T	MCS0	2.37	30.00	-27.63
	5755	151	ax (40MHz)	242T	MCS0	2.33	30.00	-27.67
	5795	159	ax (40MHz)	242T	MCS0	2.89	30.00	-27.11
	5775	155	ax (80MHz)	242T	MCS0	7.25	30.00	-22.75

Table 7-74. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

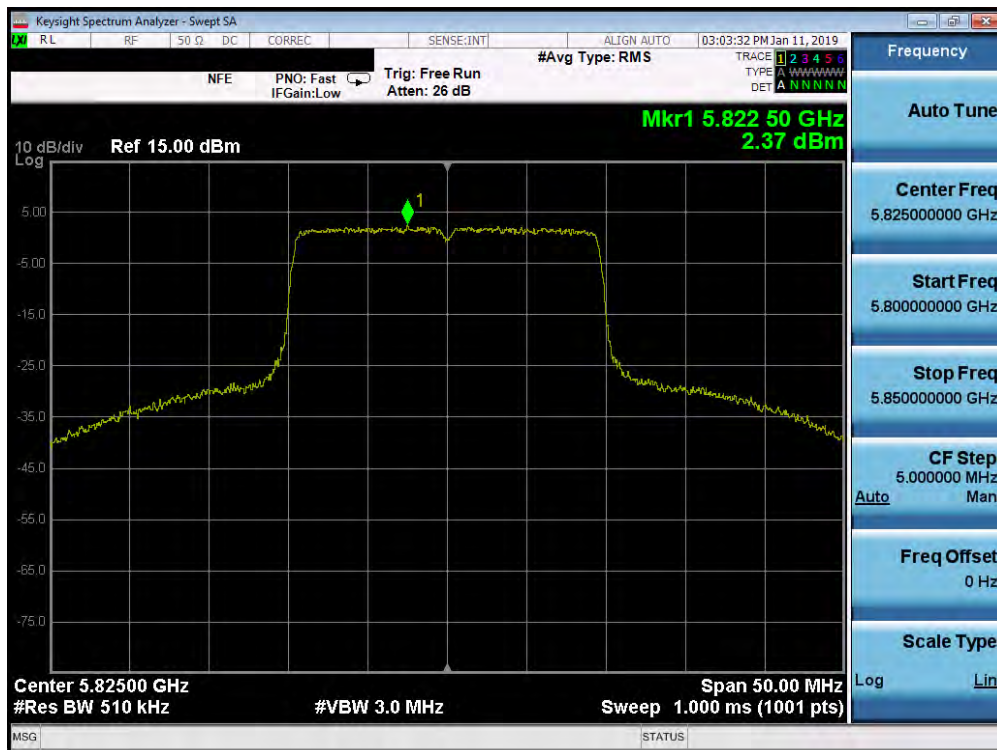


Plot 7-211. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 164 of 514

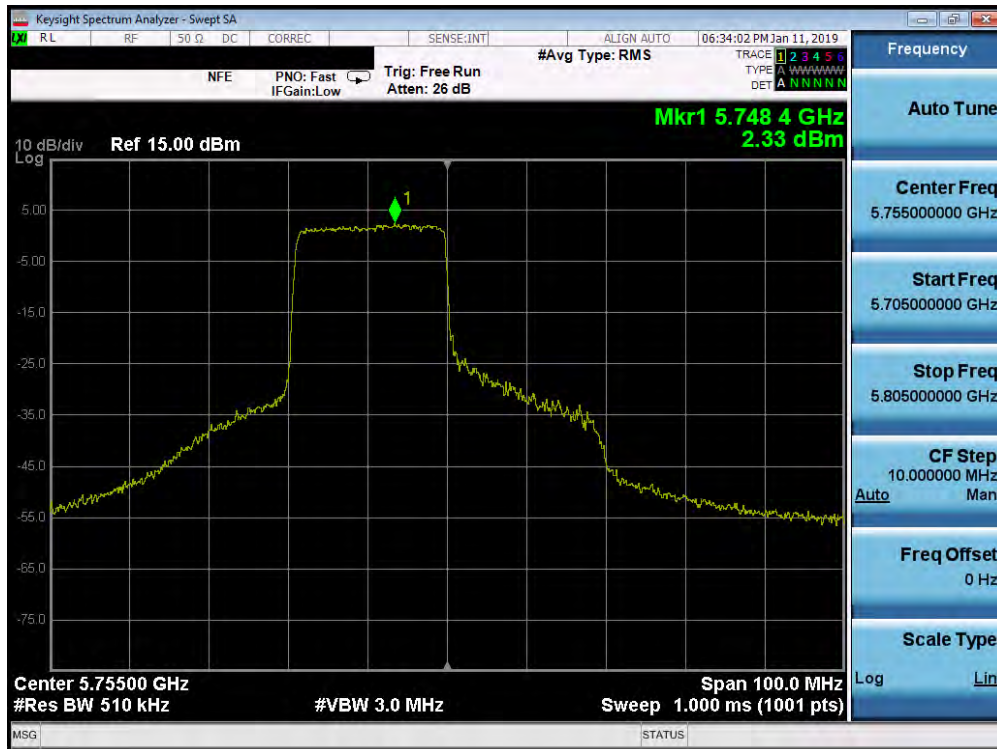


Plot 7-212. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

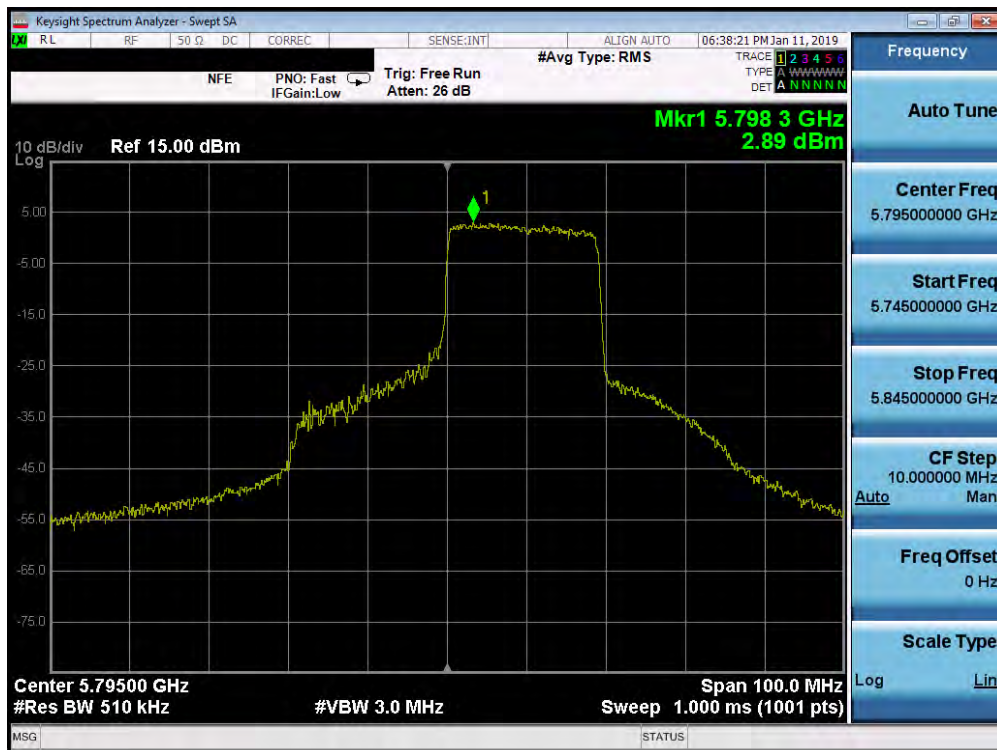


Plot 7-213. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 165 of 514

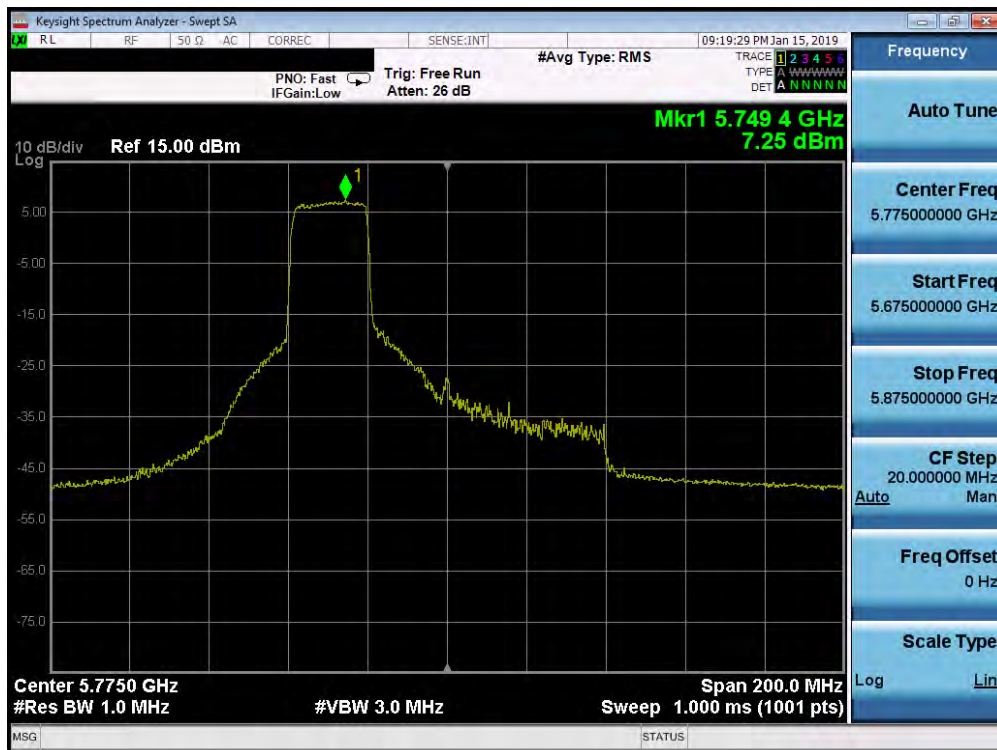


Plot 7-214. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 151)



Plot 7-215. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 166 of 514



SISO Antenna-1 Power Spectral Density Measurements (484 Tones)

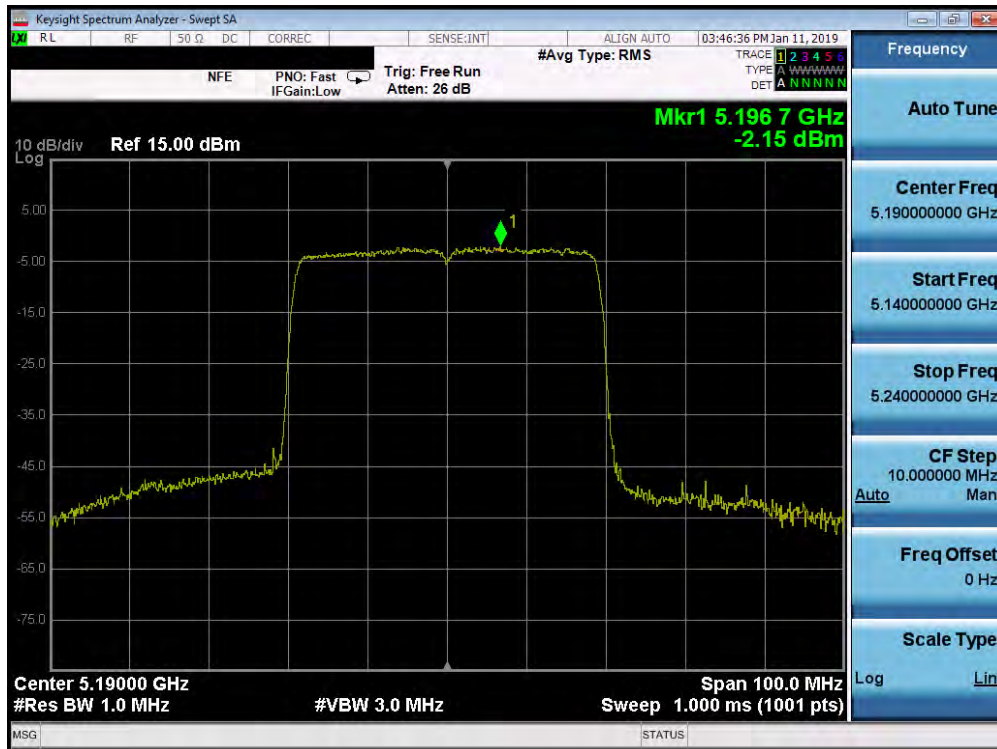
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	11.00	-13.15
	5230	46	ax (40MHz)	484T	MCS0	0.95	11.00	-10.05
	5210	42	ax (80MHz)	484T	MCS0	-3.65	11.00	-14.65
Band 2A	5270	54	ax (40MHz)	484T	MCS0	1.48	11.00	-9.52
	5310	62	ax (40MHz)	484T	MCS0	-2.02	11.00	-13.02
	5290	58	ax (80MHz)	484T	MCS0	-3.52	11.00	-14.52
Band 2C	5510	102	ax (40MHz)	484T	MCS0	-3.29	11.00	-14.29
	5590	118	ax (40MHz)	484T	MCS0	0.19	11.00	-10.81
	5710	142	ax (40MHz)	484T	MCS0	0.49	11.00	-10.51
	5530	106	ax (80MHz)	484T	MCS0	-2.25	11.00	-13.25
	5610	122	ax (80MHz)	484T	MCS0	2.45	11.00	-8.55
	5690	138	ax (80MHz)	484T	MCS0	3.13	11.00	-7.87

Table 7-75. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

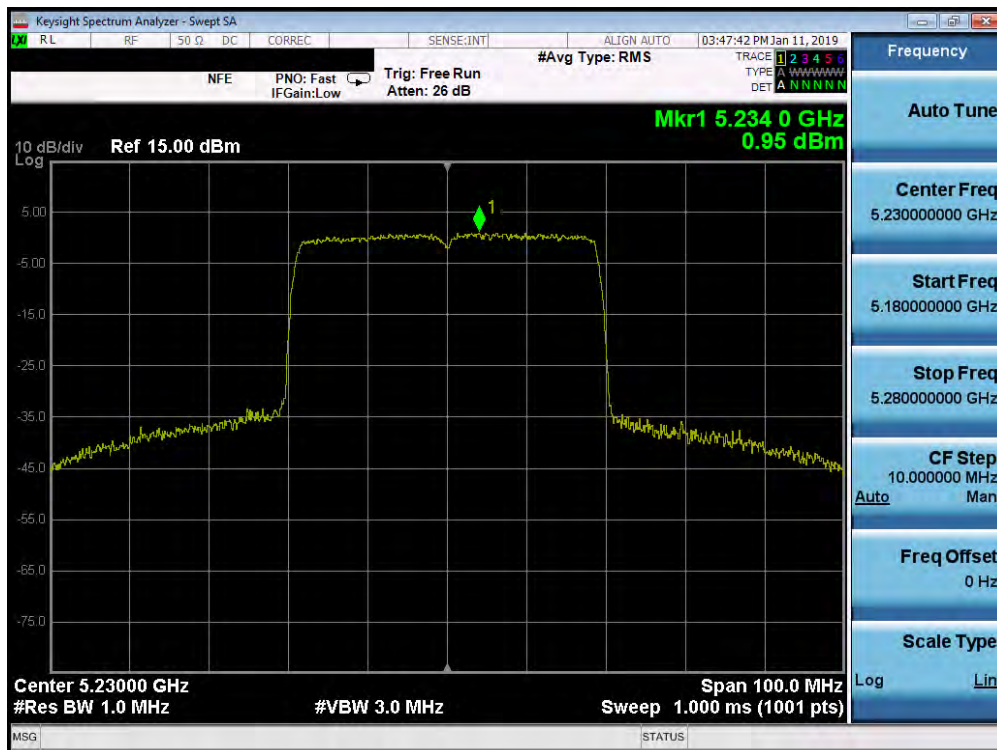
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	-7.94	-10.09	10.0	-20.09
	5230	46	ax (40MHz)	484T	MCS0	0.95	-7.44	-6.49	10.0	-16.49
	5210	42	ax (80MHz)	484T	MCS0	-3.65	-7.94	-11.59	10.0	-21.59

Table 7-76. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 484 Tones)

FCC ID: A3LSMG9730	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	Page 168 of 514

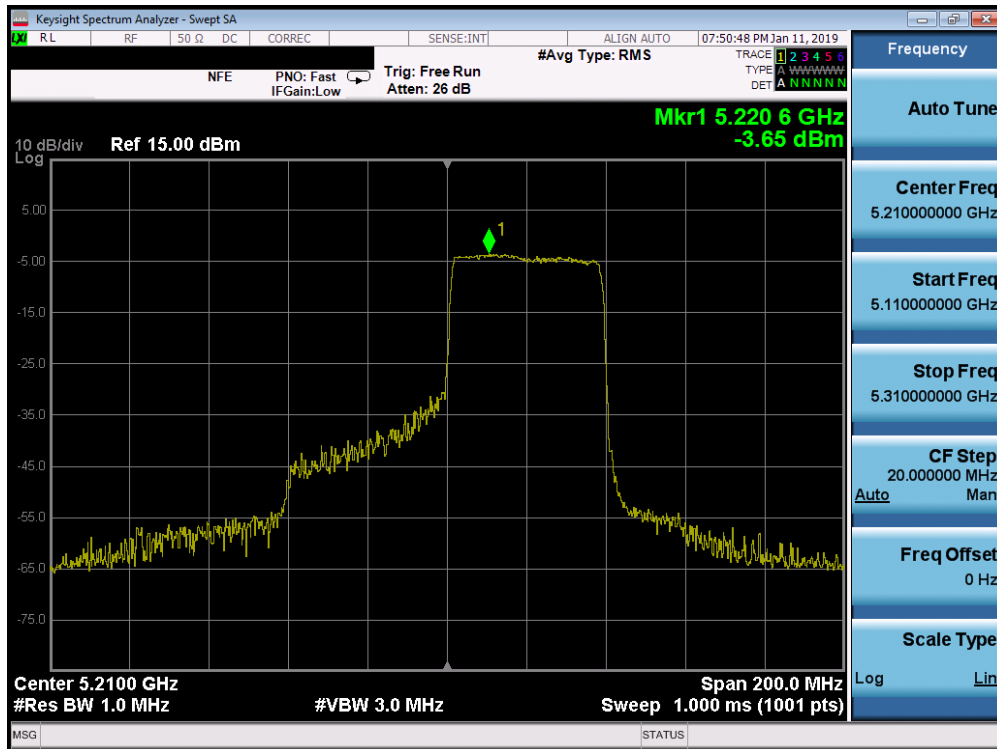


Plot 7-217. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

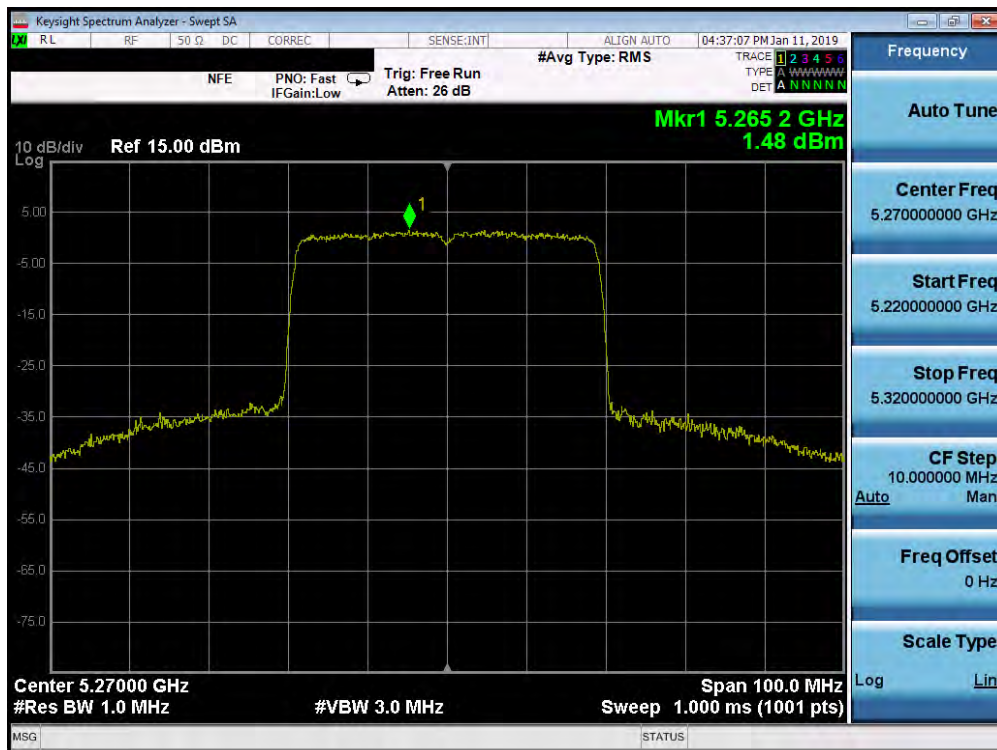


Plot 7-218. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 169 of 514

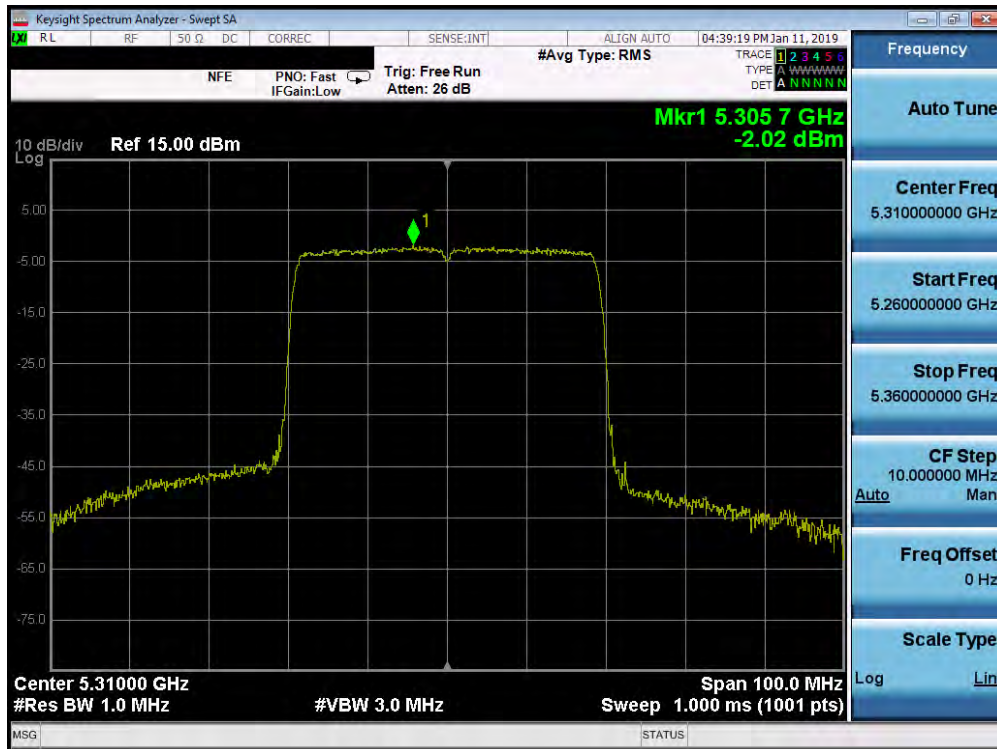


Plot 7-219. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)

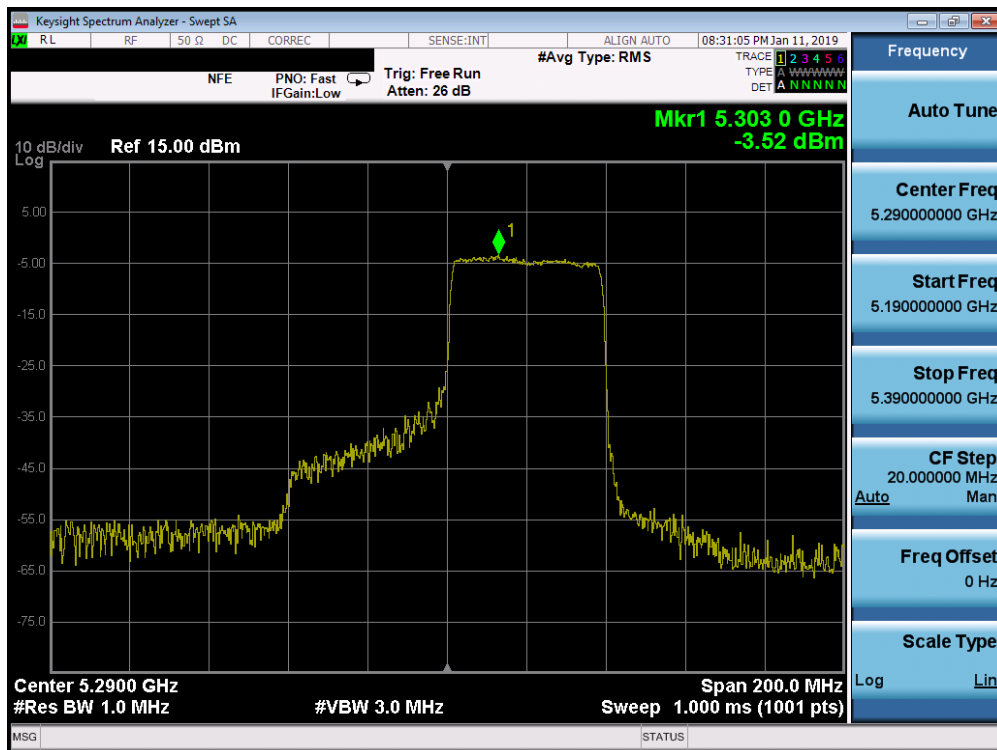


Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 170 of 514

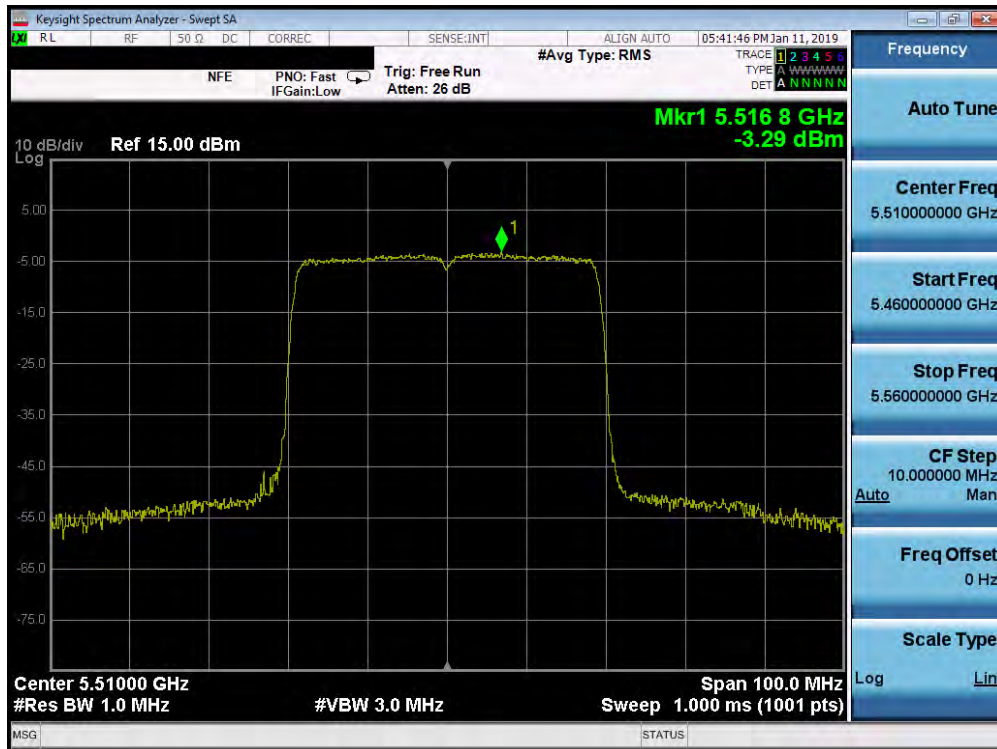


Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

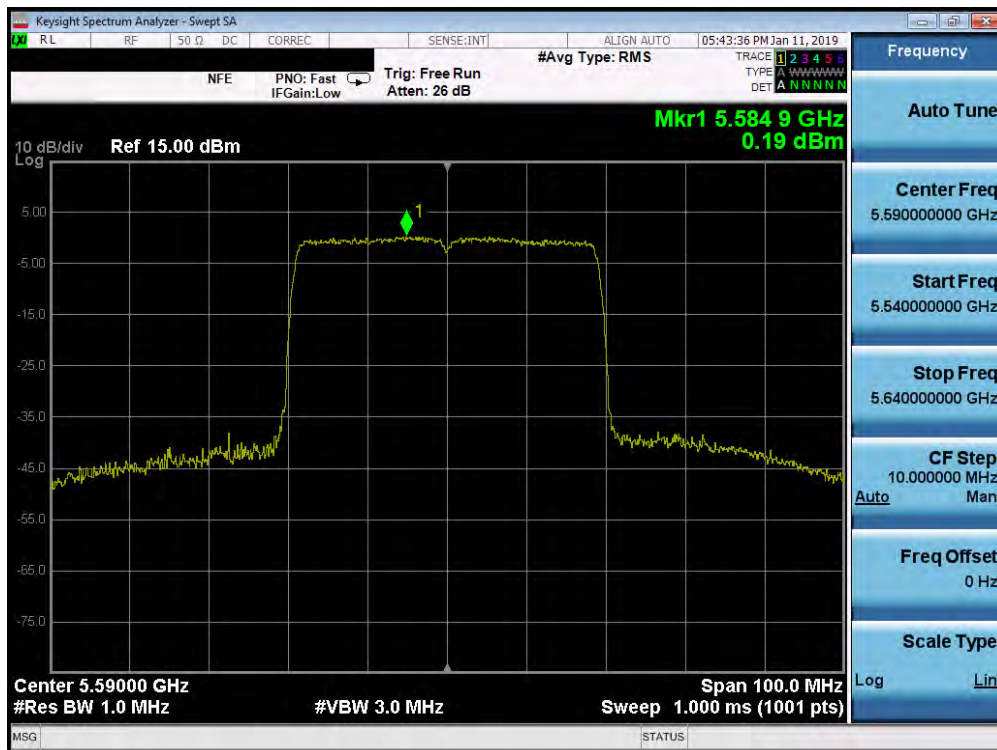


Plot 7-222. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 171 of 514

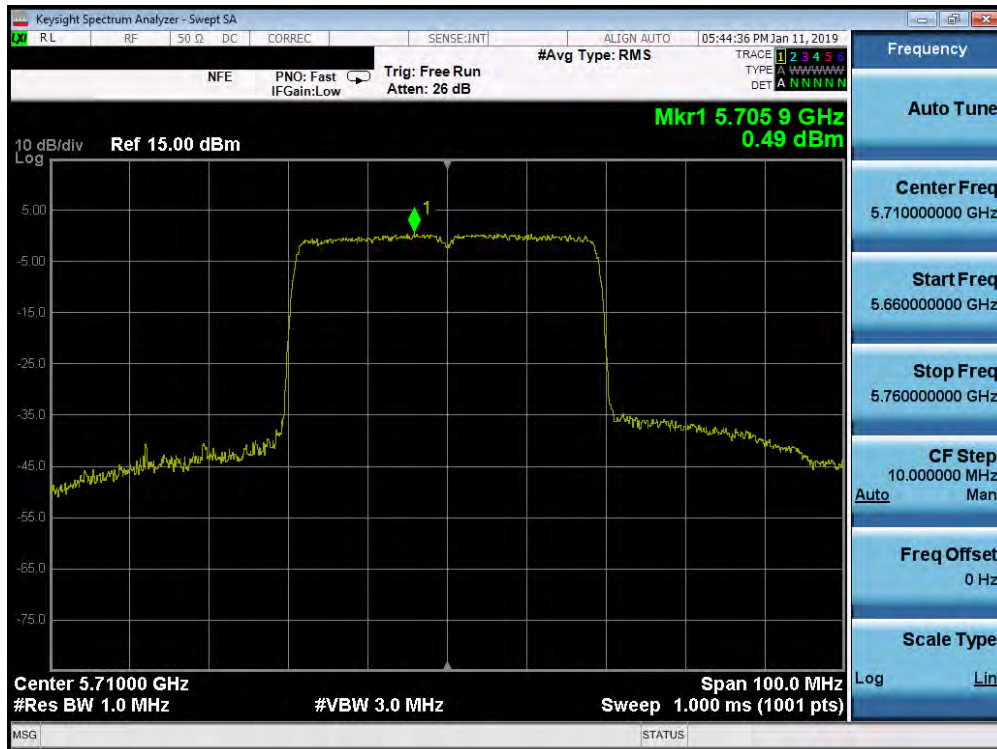


Plot 7-223. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

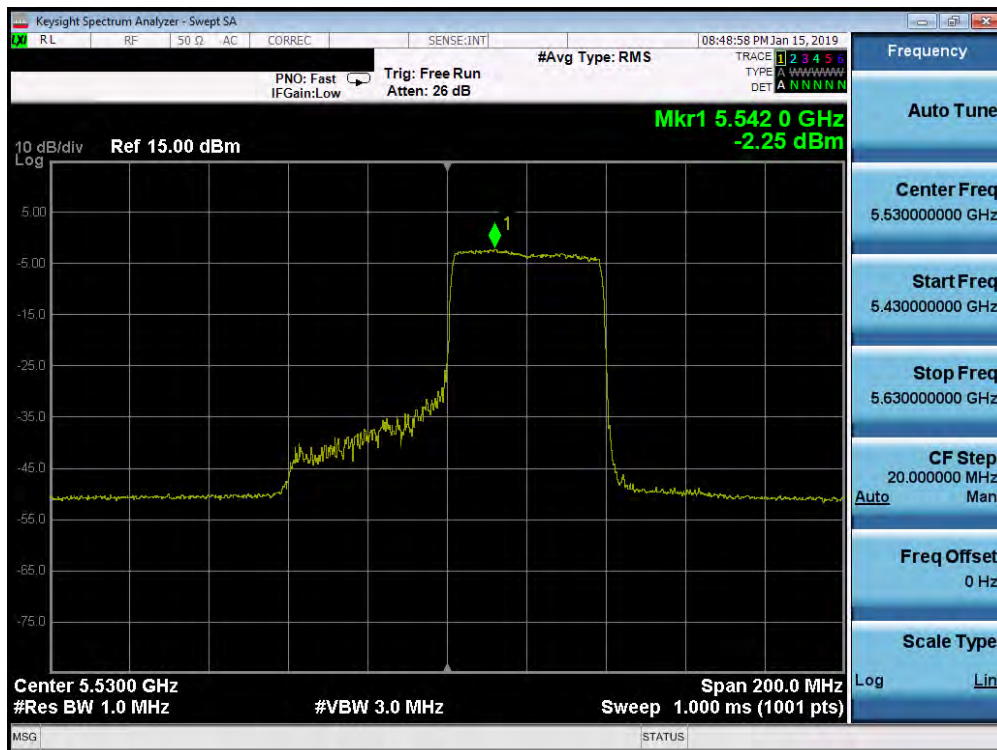


Plot 7-224. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 172 of 514

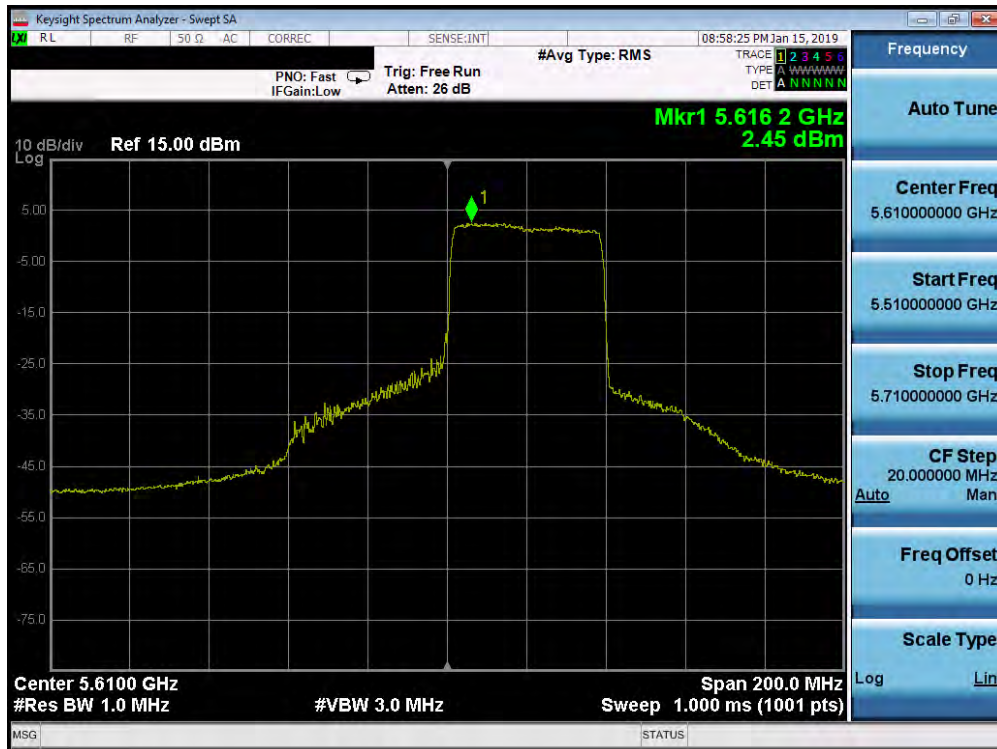


Plot 7-225. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

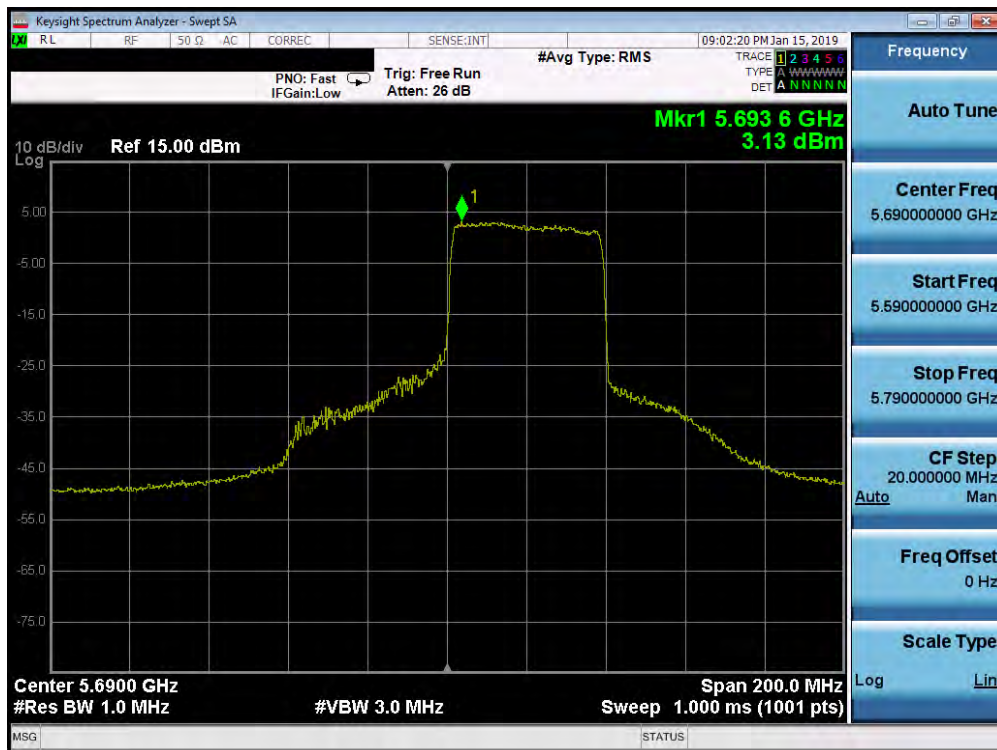


Plot 7-226. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 173 of 514



Plot 7-227. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)



Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 174 of 514

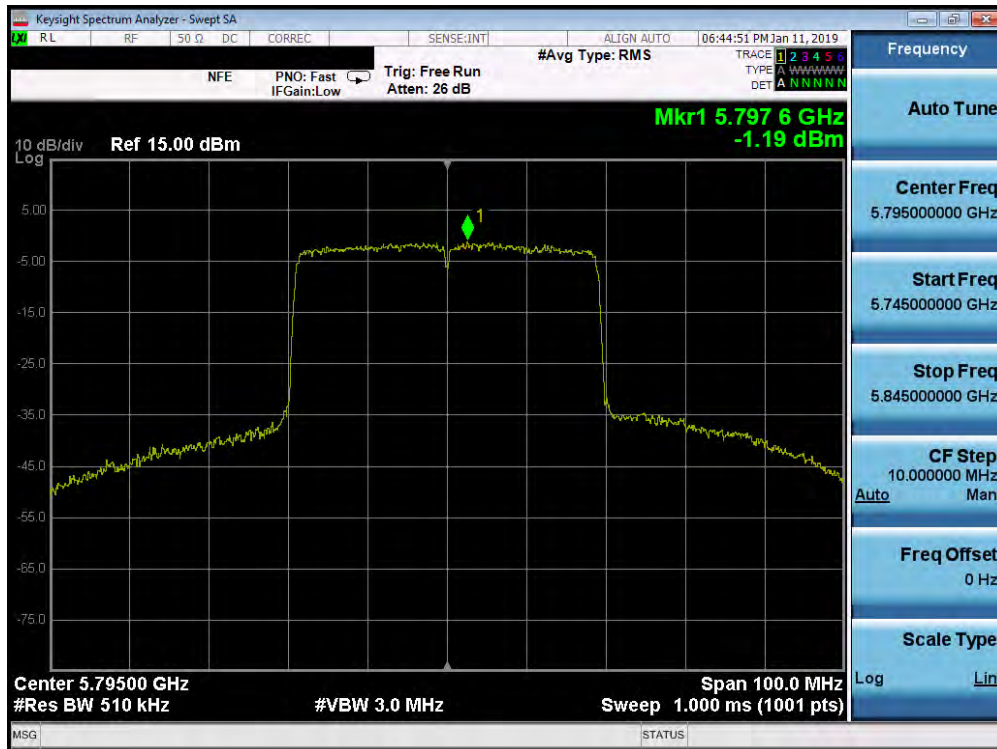
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5755	151	ax (40MHz)	484T	MCS0	-1.69	30.00	-31.69
	5795	159	ax (40MHz)	484T	MCS0	-1.19	30.00	-31.19
	5775	155	ax (80MHz)	484T	MCS0	3.43	30.00	-26.57

Table 7-77. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

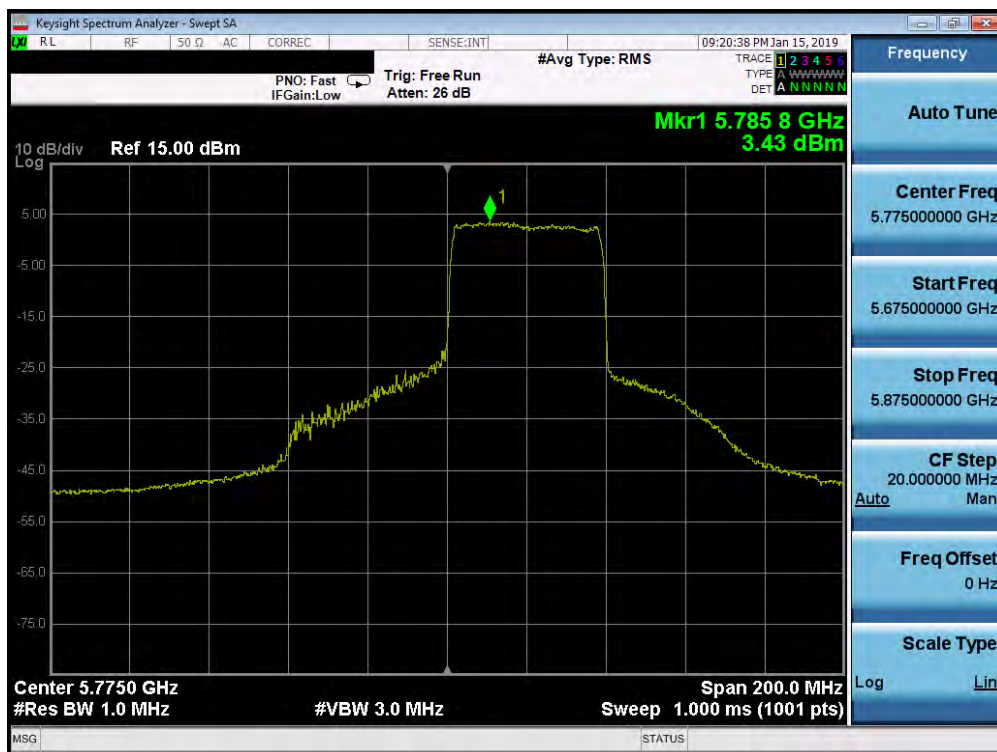


Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 175 of 514



Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-231. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 176 of 514

SISO Antenna-1 Power Spectral Density Measurements (996 Tones)

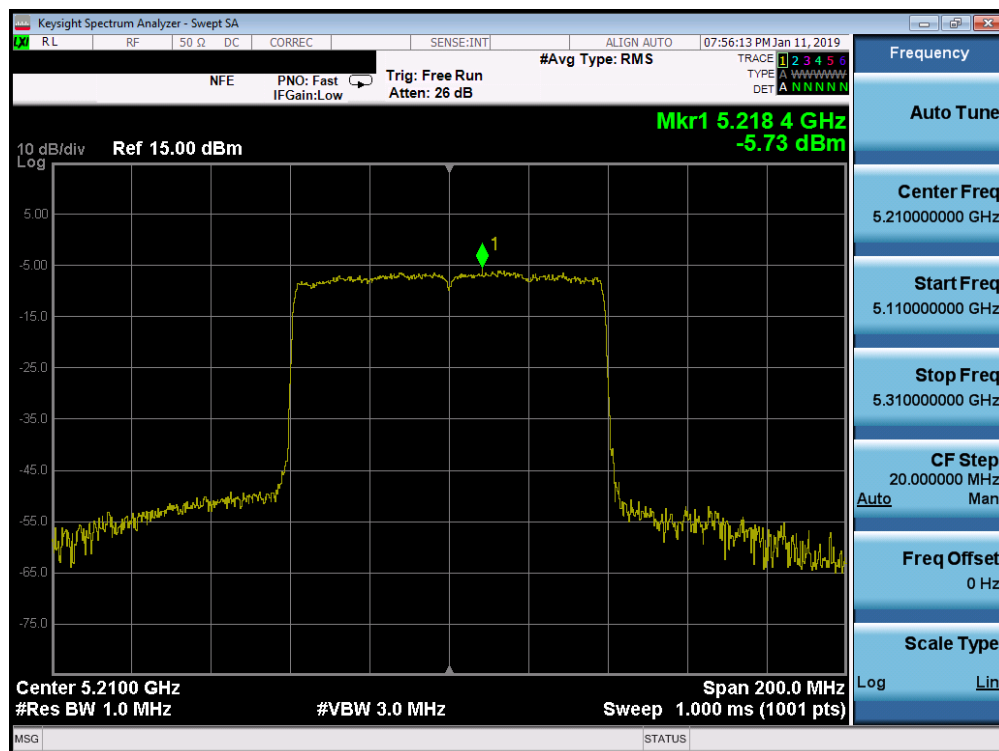
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	11.00	-16.73
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-6.40	11.00	-17.40
Band 2C	5530	106	ax (80MHz)	996T	MCS0	-5.43	11.00	-16.43
	5610	122	ax (80MHz)	996T	MCS0	-1.60	11.00	-12.60
	5690	138	ax (80MHz)	996T	MCS0	-5.03	11.00	-16.03

Table 7-78. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)

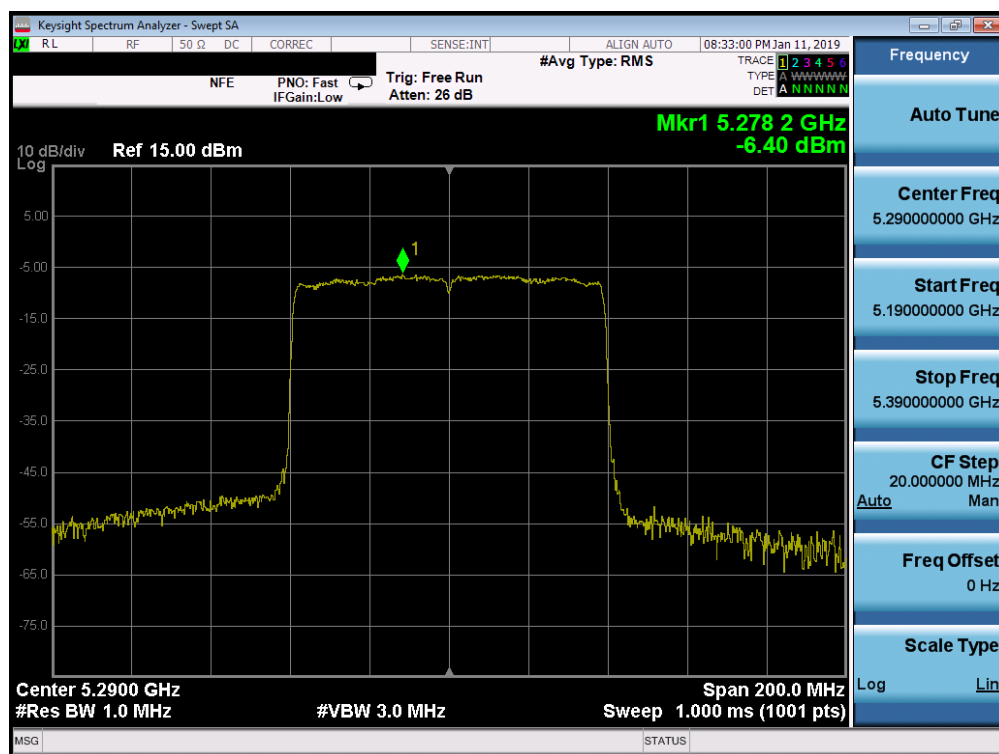
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	-7.94	-13.67	10.0	-23.67

Table 7-79. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

FCC ID: A3LSMG9730	<div>MEASUREMENT REPORT (CERTIFICATION)<div></div></div>			Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	Page 177 of 514	

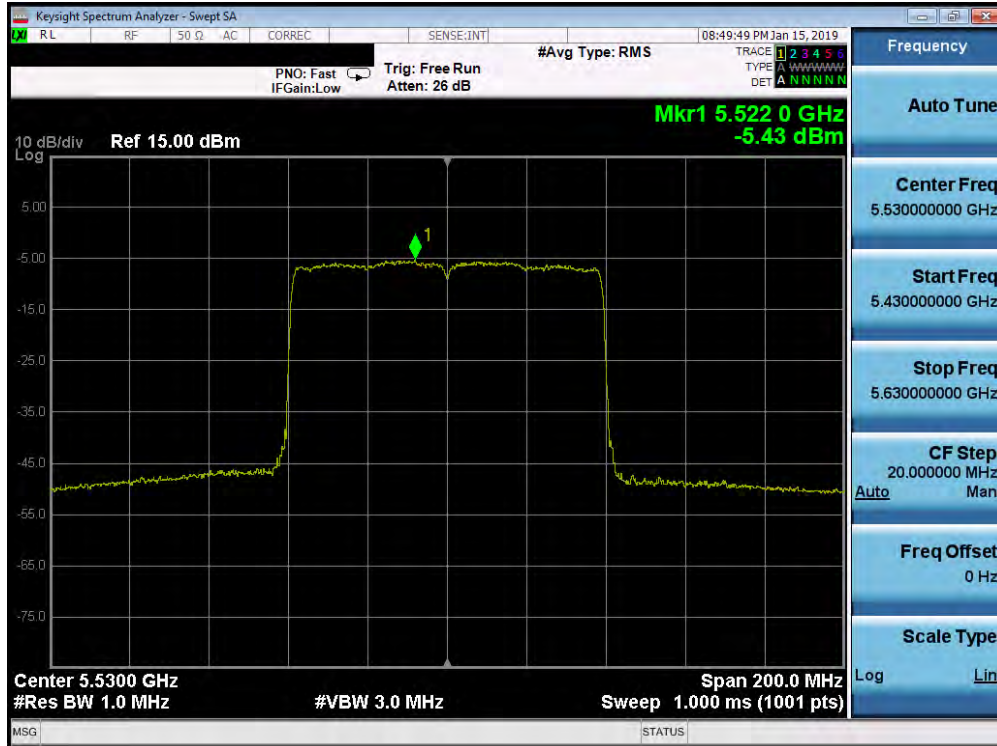


Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

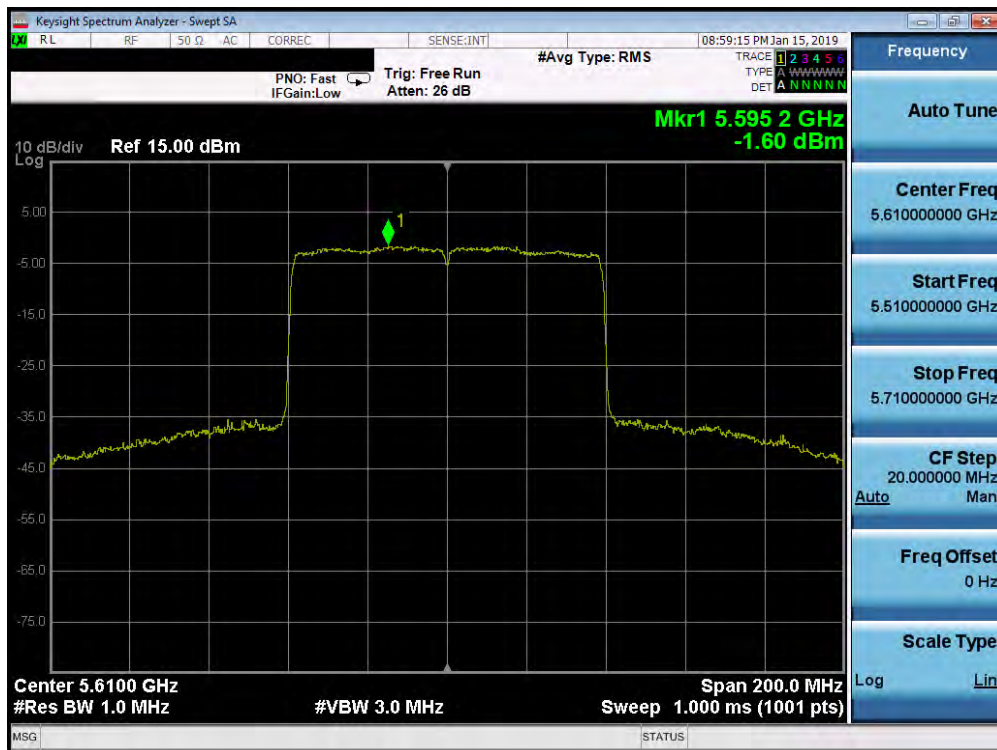


Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 178 of 514

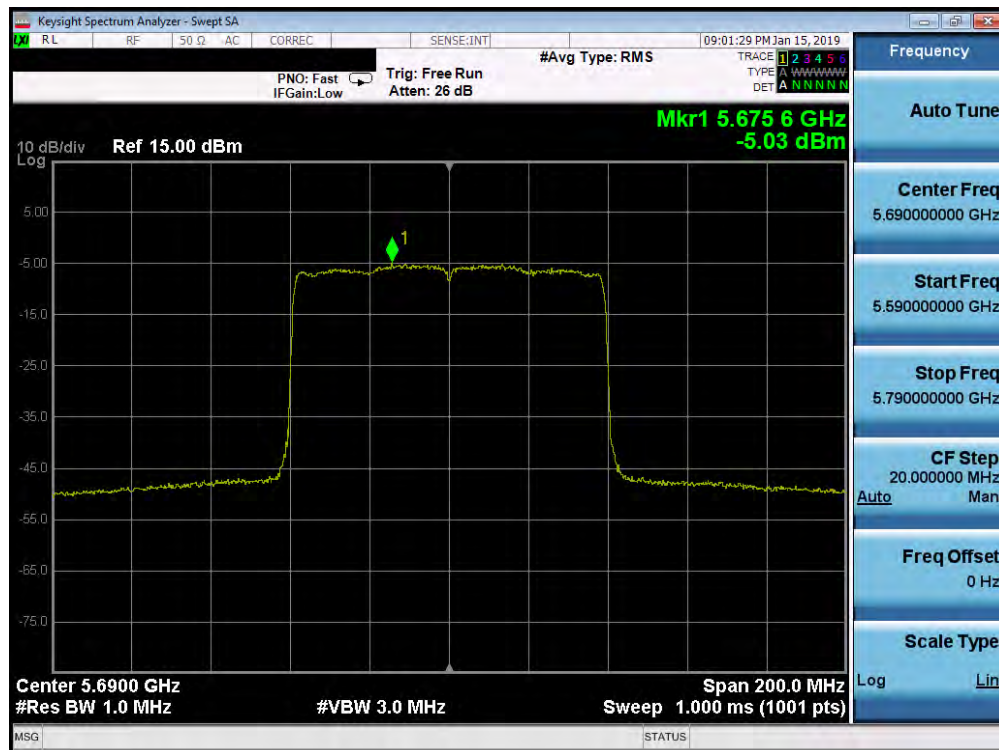


Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 179 of 514

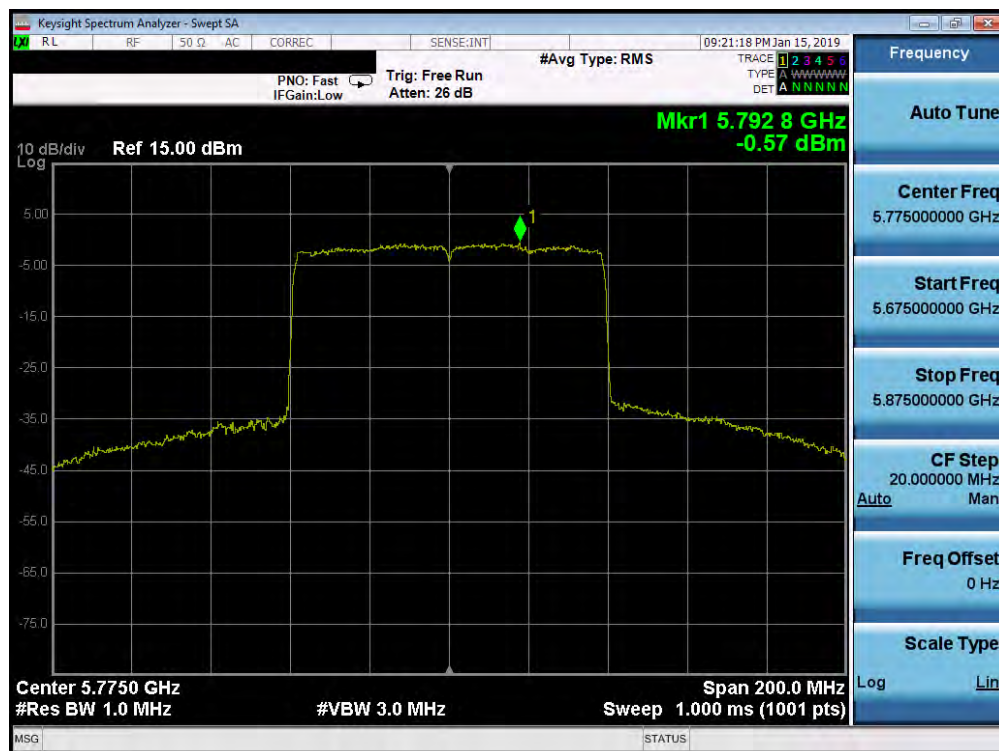


Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 180 of 514

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	-0.57	30.00	-30.57

Table 7-80. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)



Plot 7-237. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 181 of 514

SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

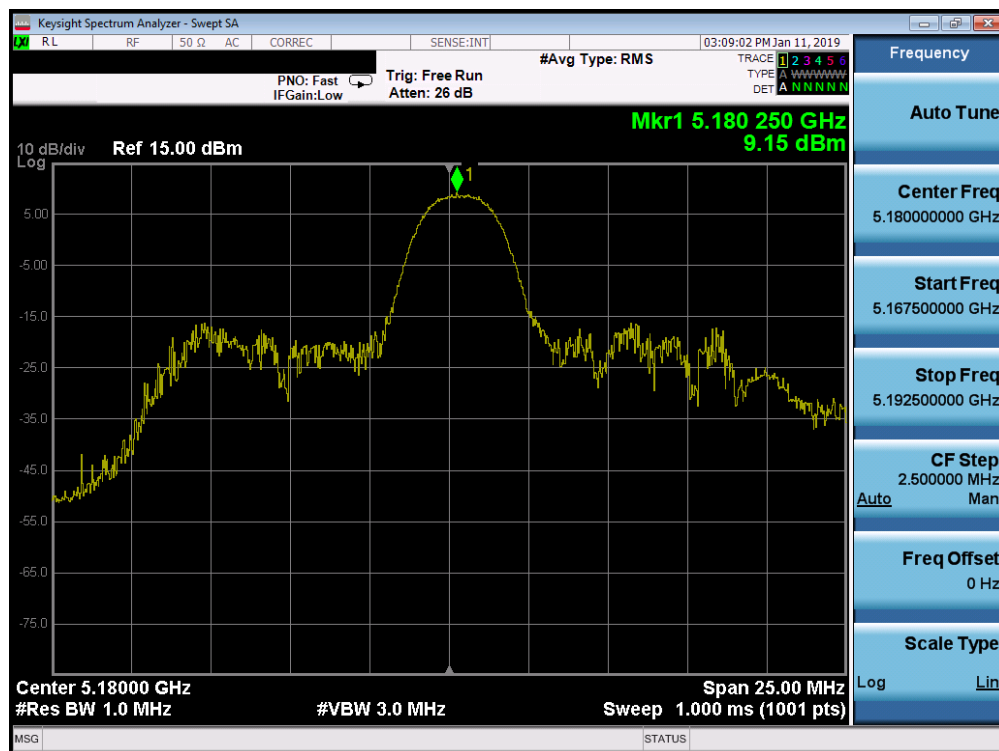
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	11.00	-1.85
	5200	40	ax (20MHz)	26T	MCS0	8.84	11.00	-2.16
	5240	48	ax (20MHz)	26T	MCS0	8.98	11.00	-2.02
	5190	38	ax (40MHz)	26T	MCS0	8.02	11.00	-2.98
	5230	46	ax (40MHz)	26T	MCS0	8.55	11.00	-2.45
	5210	42	ax (80MHz)	26T	MCS0	9.39	11.00	-1.61
Band 2A	5260	52	ax (20MHz)	26T	MCS0	8.71	11.00	-2.29
	5280	56	ax (20MHz)	26T	MCS0	8.62	11.00	-2.38
	5320	64	ax (20MHz)	26T	MCS0	8.79	11.00	-2.21
	5270	54	ax (40MHz)	26T	MCS0	8.26	11.00	-2.74
	5310	62	ax (40MHz)	26T	MCS0	8.10	11.00	-2.90
	5290	58	ax (80MHz)	26T	MCS0	10.01	11.00	-0.99
Band 2C	5500	100	ax (20MHz)	26T	MCS0	9.53	11.00	-1.47
	5600	120	ax (20MHz)	26T	MCS0	9.51	11.00	-1.49
	5720	144	ax (20MHz)	26T	MCS0	9.36	11.00	-1.64
	5510	102	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5590	118	ax (40MHz)	26T	MCS0	8.47	11.00	-2.53
	5710	142	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5530	106	ax (80MHz)	26T	MCS0	9.98	11.00	-1.02
	5610	122	ax (80MHz)	26T	MCS0	10.10	11.00	-0.90
	5690	138	ax (80MHz)	26T	MCS0	10.42	11.00	-0.58

Table 7-81. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

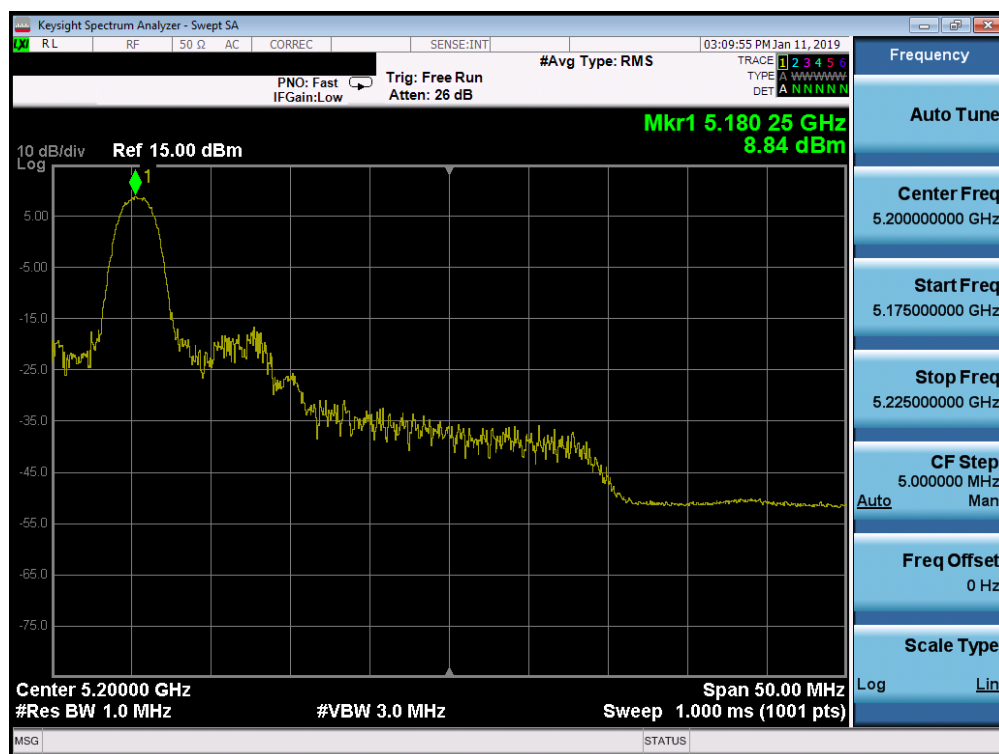
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	-7.70	1.45	10.0	-8.55
	5200	40	ax (20MHz)	26T	MCS0	8.84	-7.57	1.27	10.0	-8.73
	5240	48	ax (20MHz)	26T	MCS0	8.98	-8.01	0.97	10.0	-9.03
	5190	38	ax (40MHz)	26T	MCS0	8.02	-7.57	0.45	10.0	-9.55
	5230	46	ax (40MHz)	26T	MCS0	8.55	-8.01	0.54	10.0	-9.46
	5210	42	ax (80MHz)	26T	MCS0	9.39	-7.57	1.82	10.0	-8.18

Table 7-82. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 26 Tones)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 182 of 514

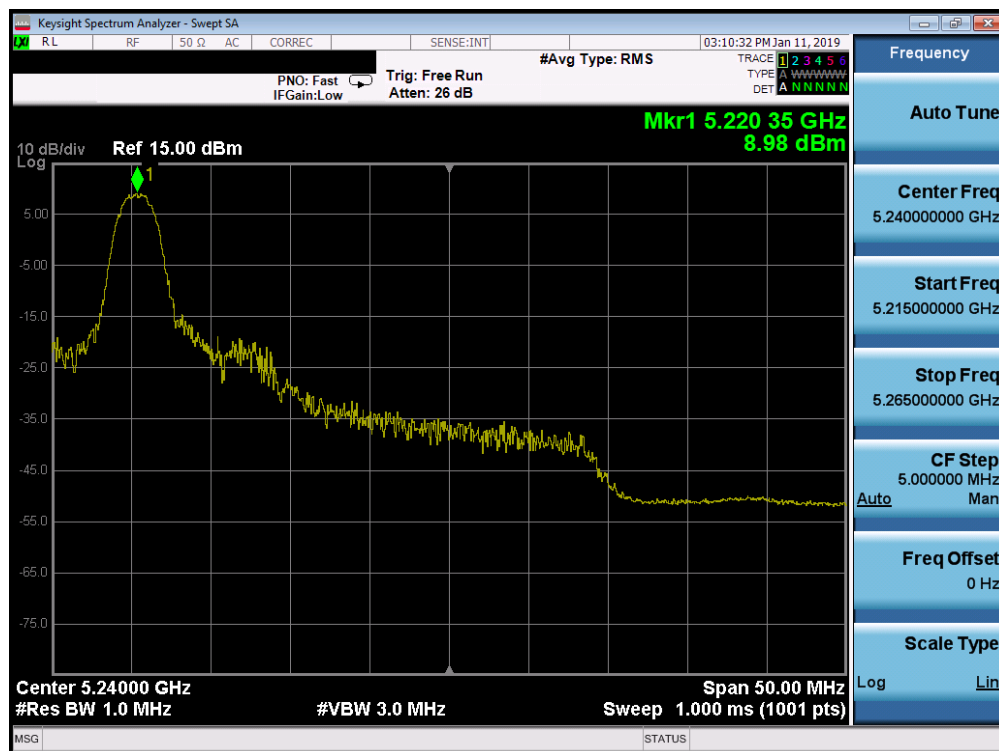


Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

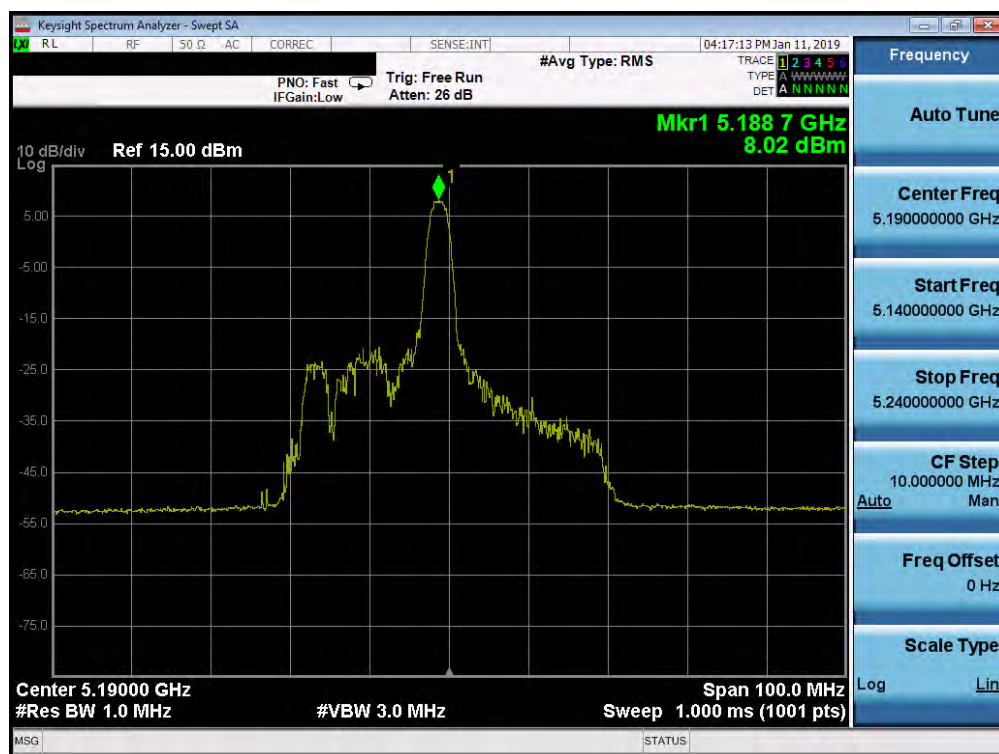


Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 183 of 514

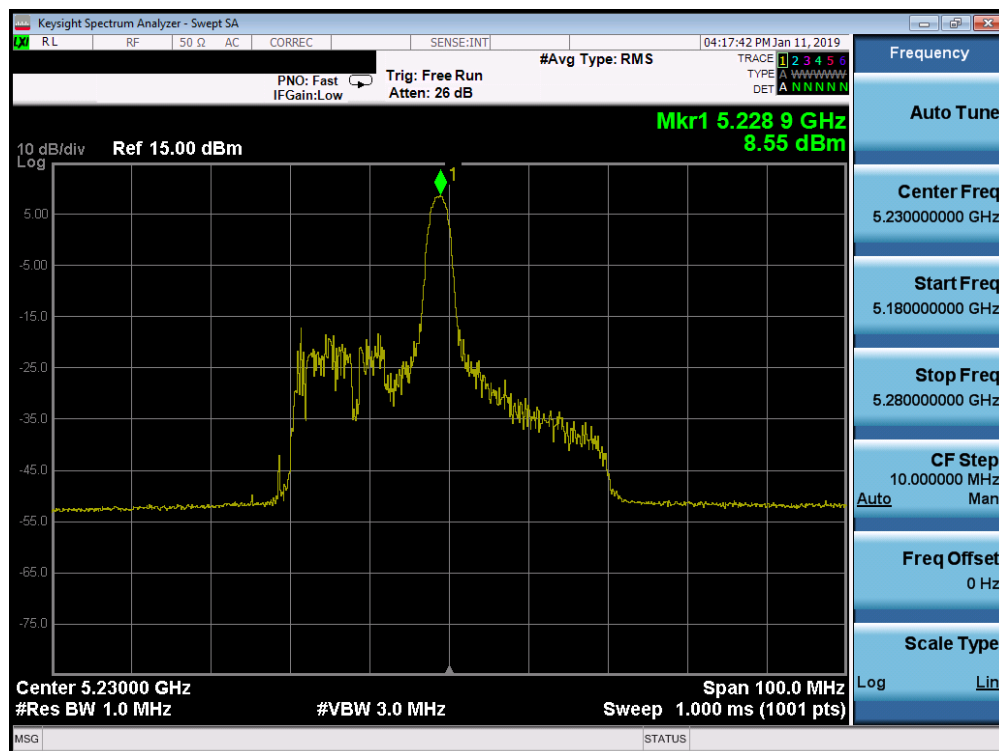


Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

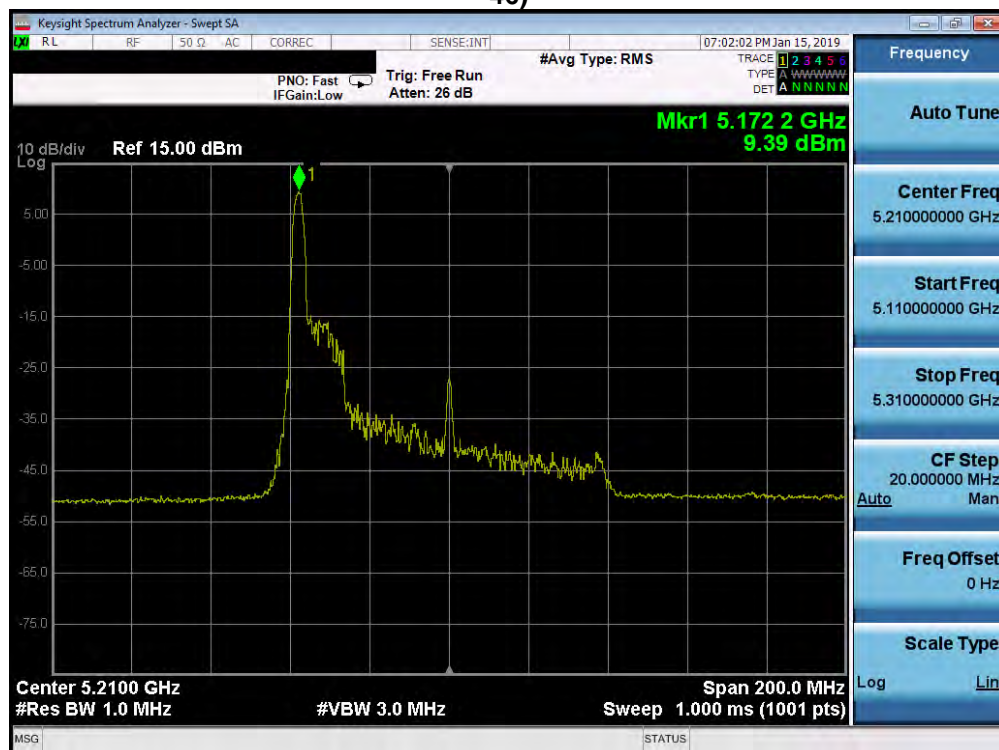


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 184 of 514

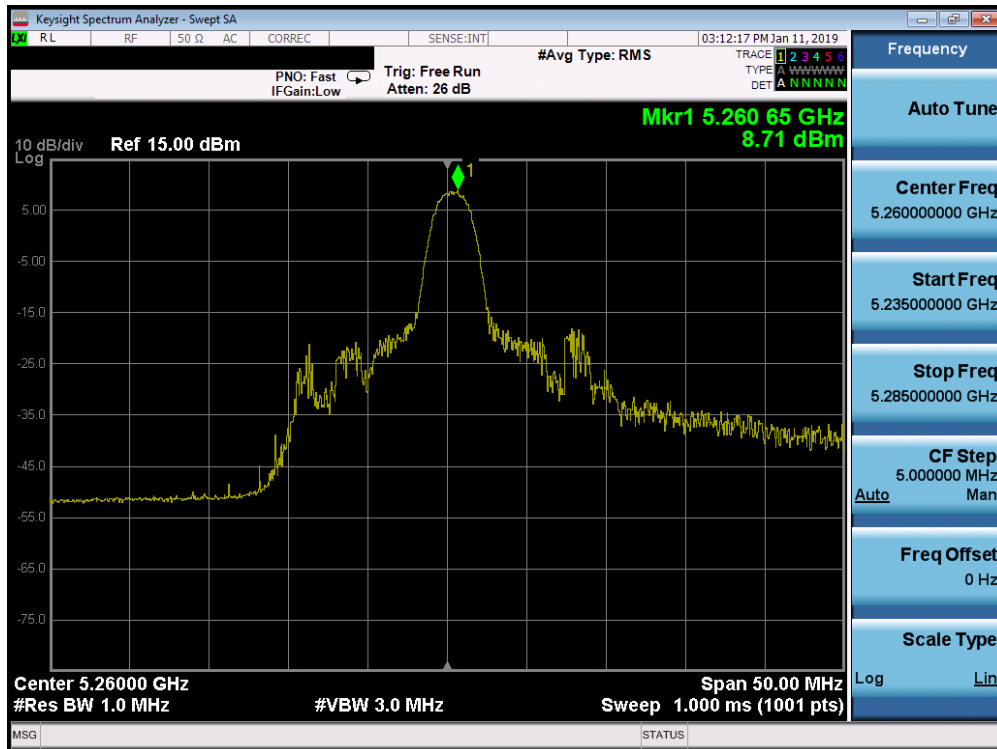


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

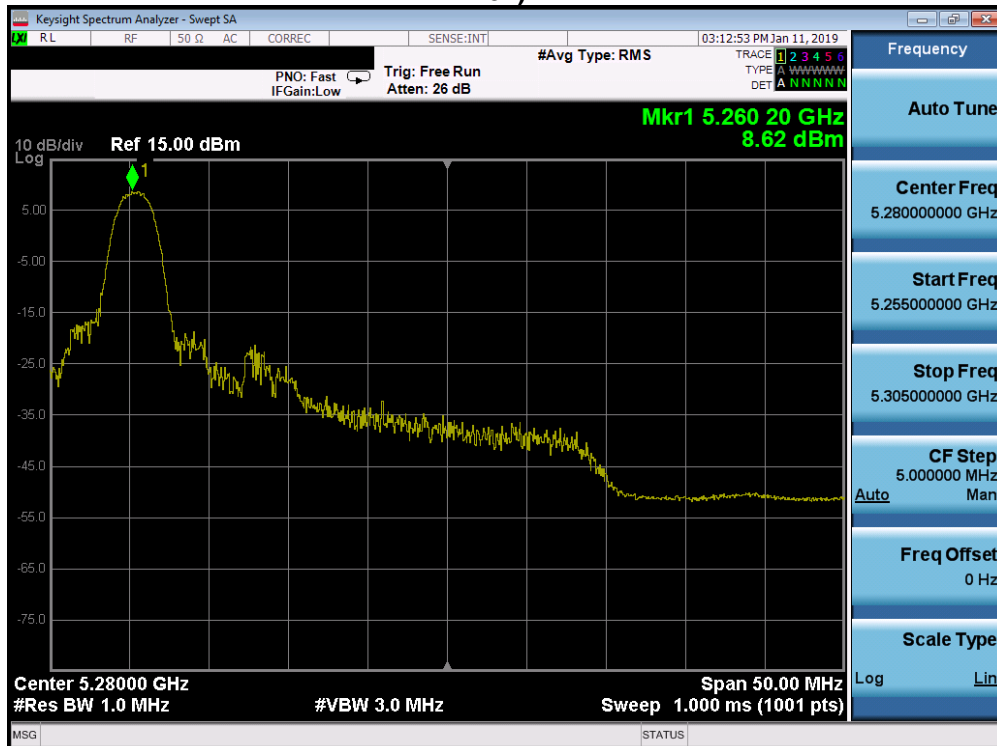


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 185 of 514



Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 186 of 514

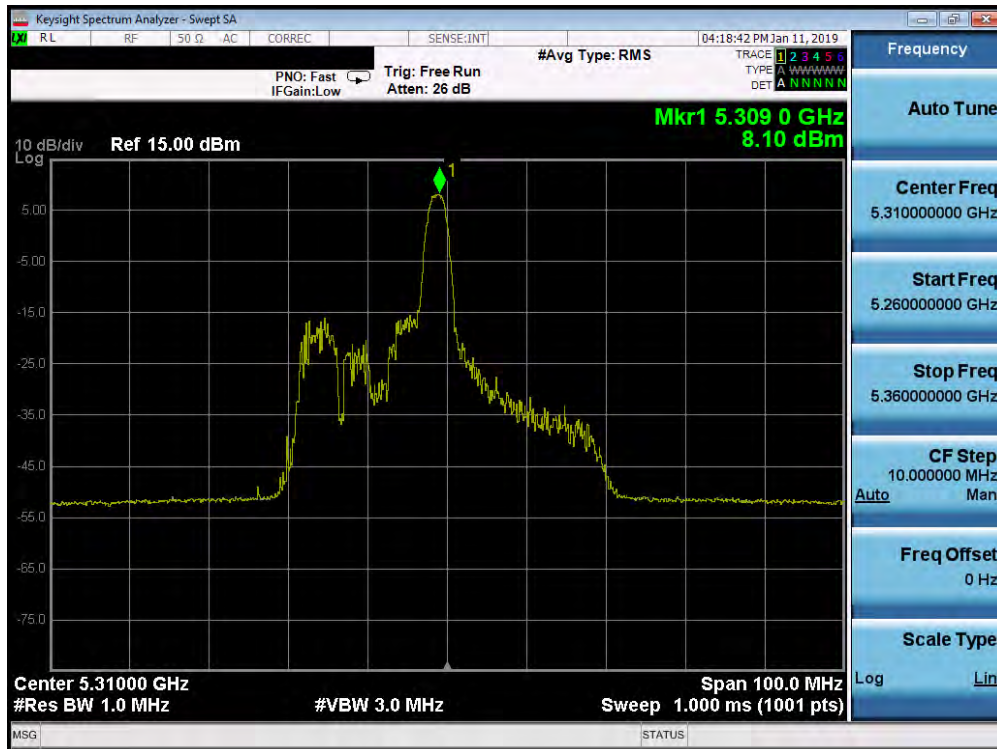


Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

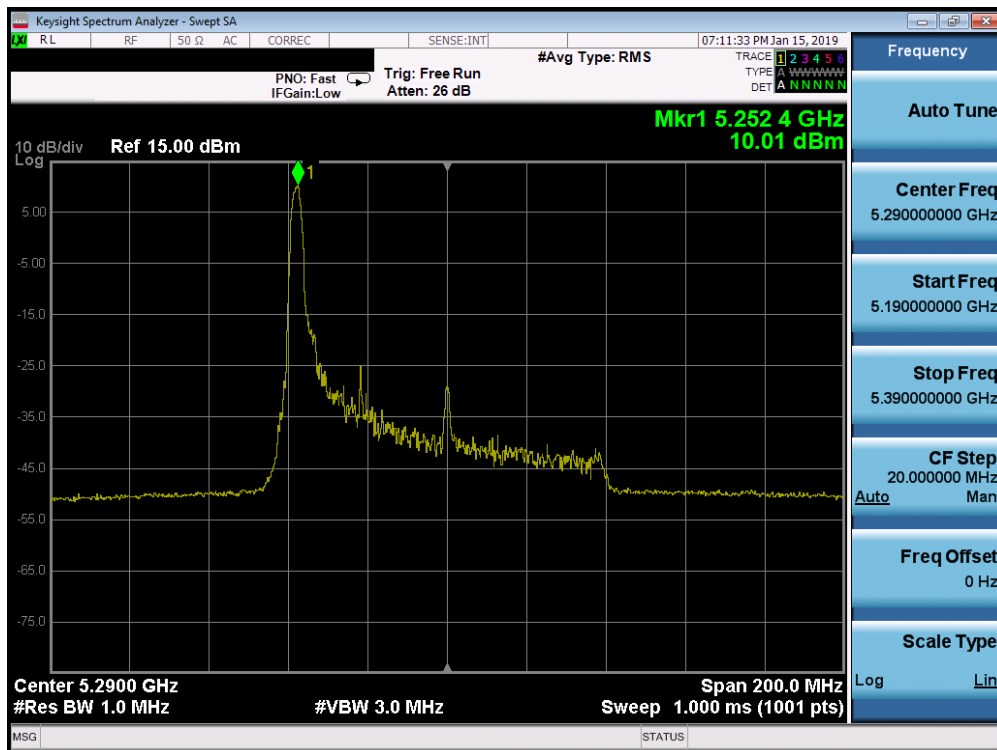


Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 187 of 514

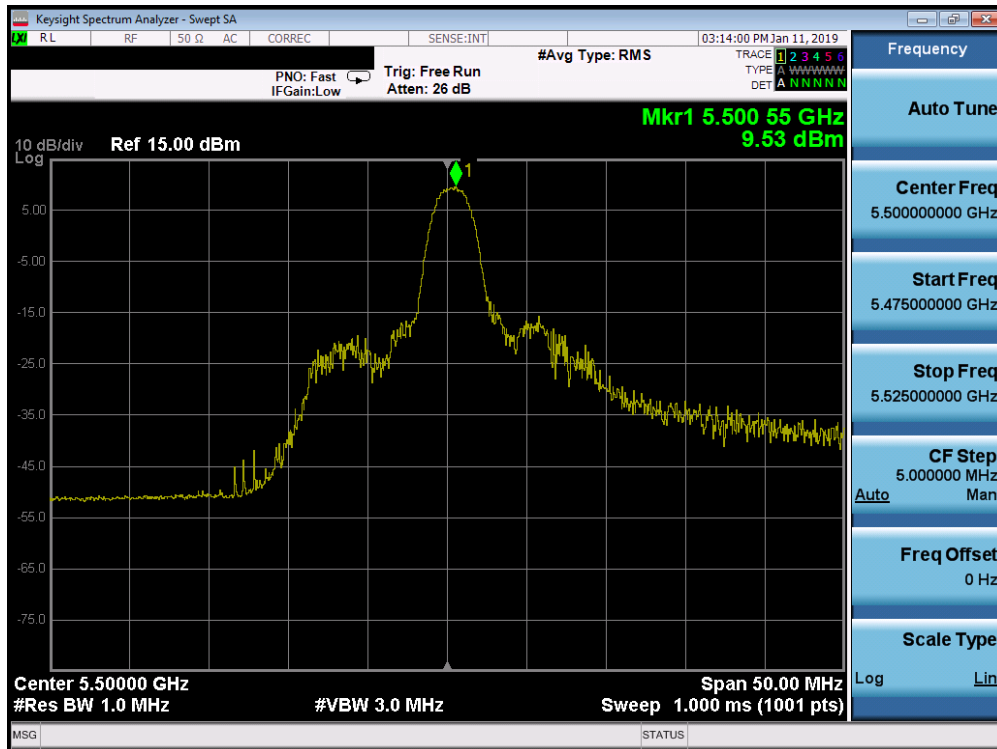


Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

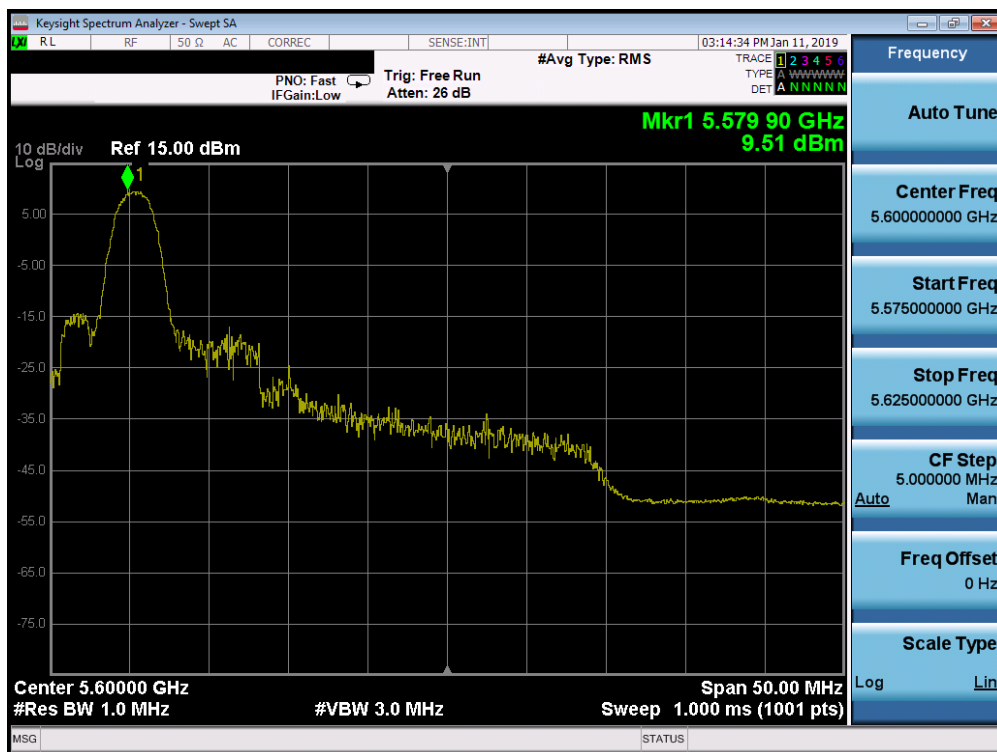


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 188 of 514

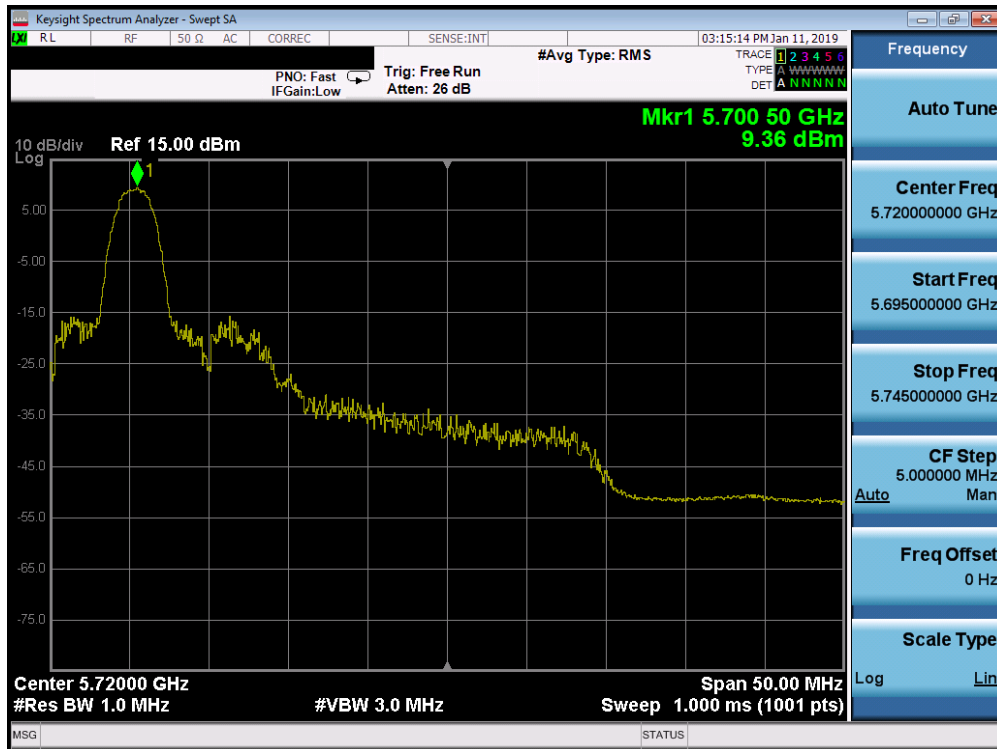


Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

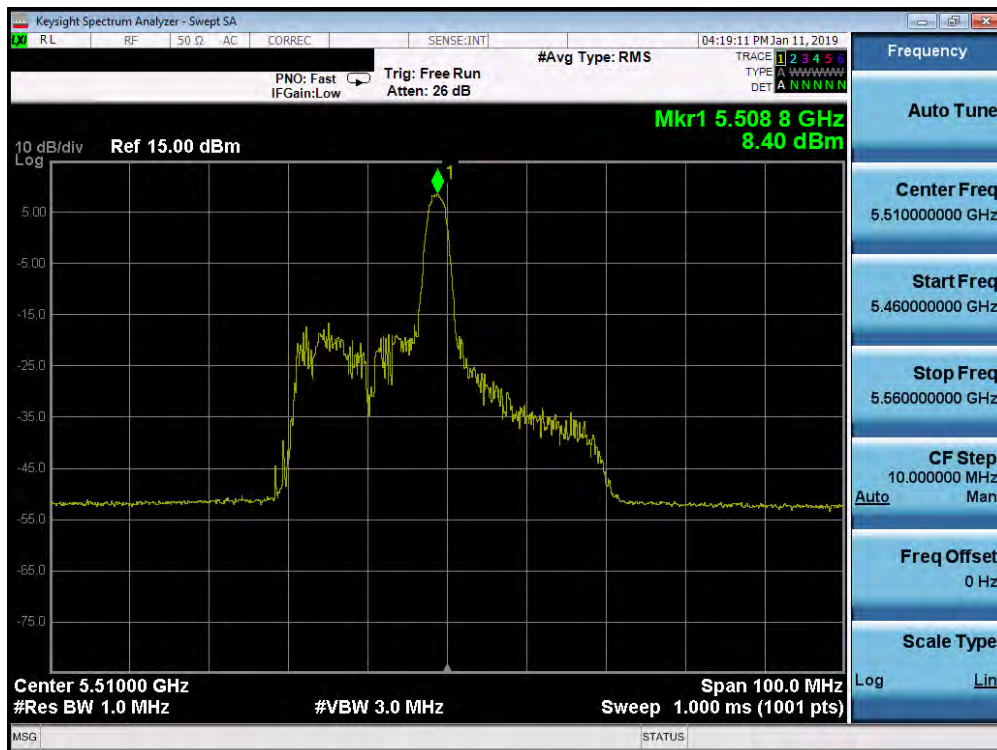


Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 189 of 514



Plot 7-252. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

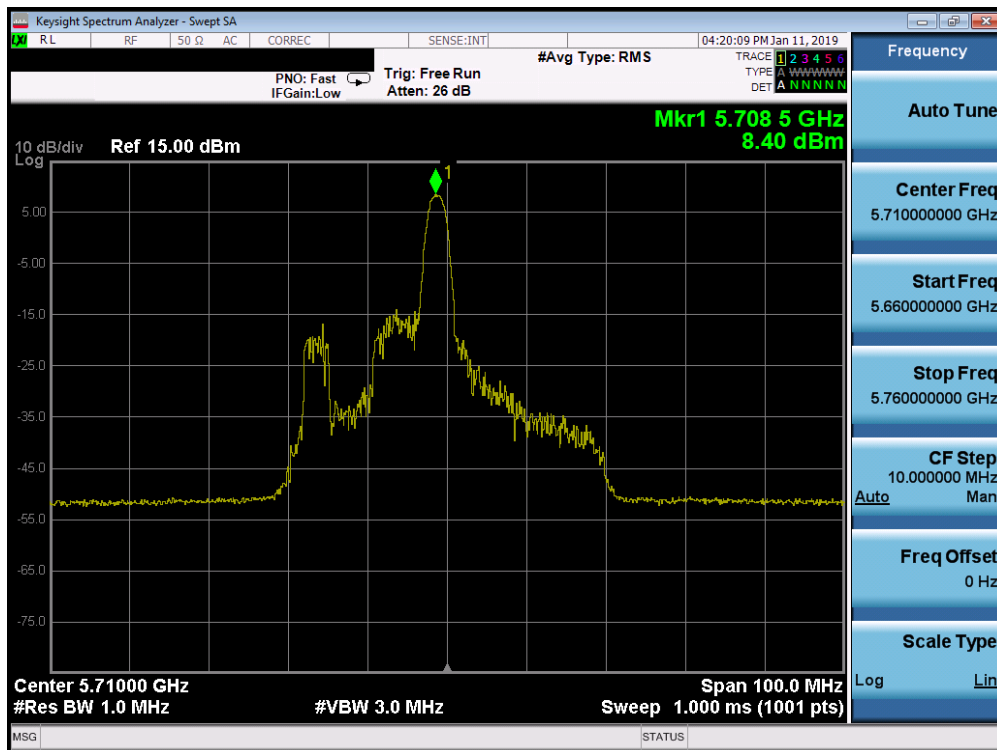


Plot 7-253. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 190 of 514

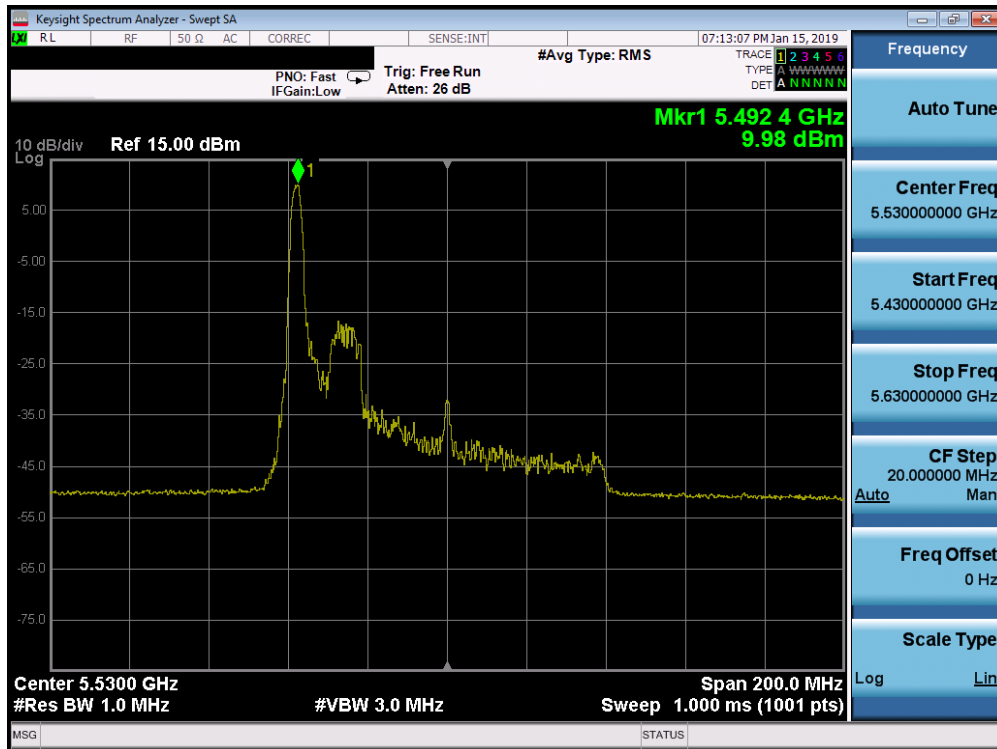


Plot 7-254. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

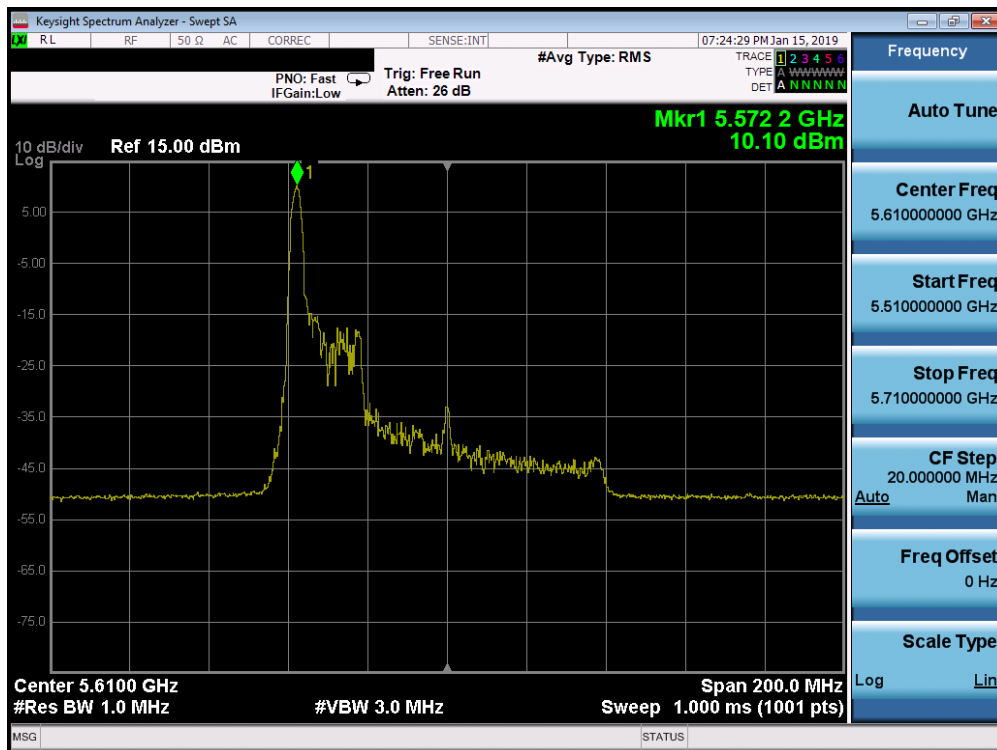


Plot 7-255. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 191 of 514

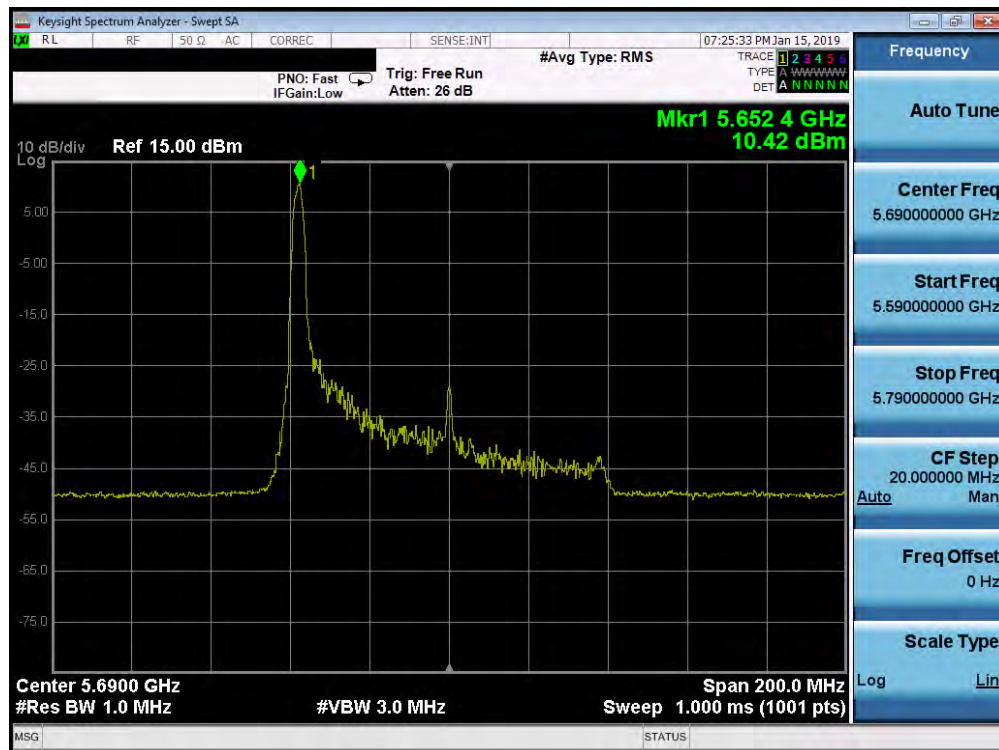


Plot 7-256. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-257. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 192 of 514

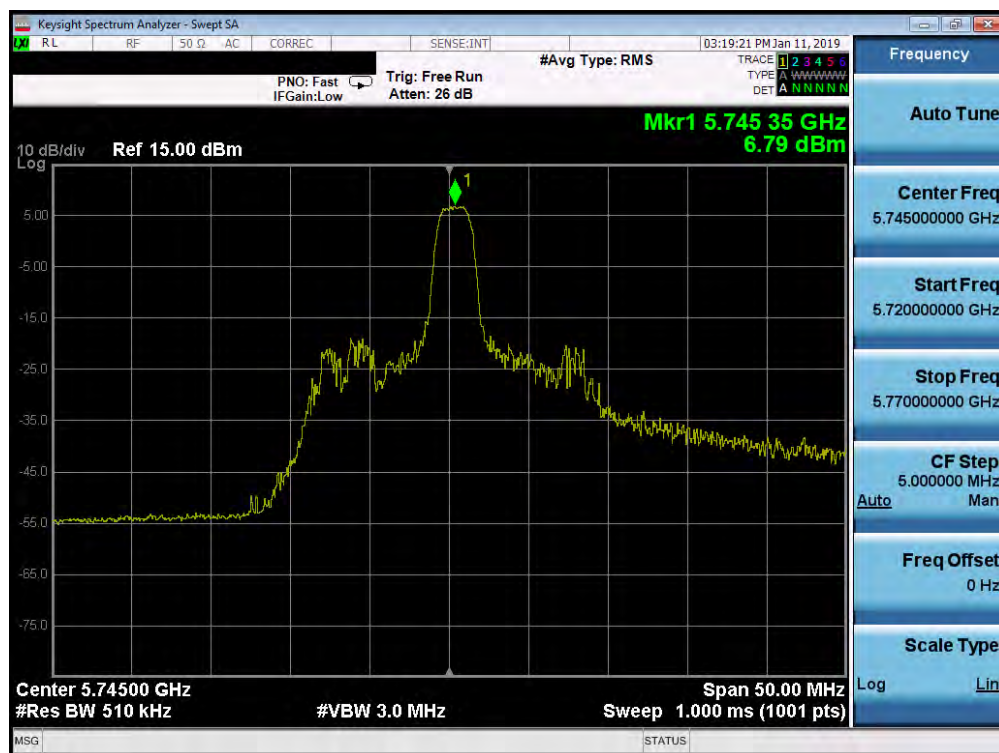


Plot 7-258. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 193 of 514

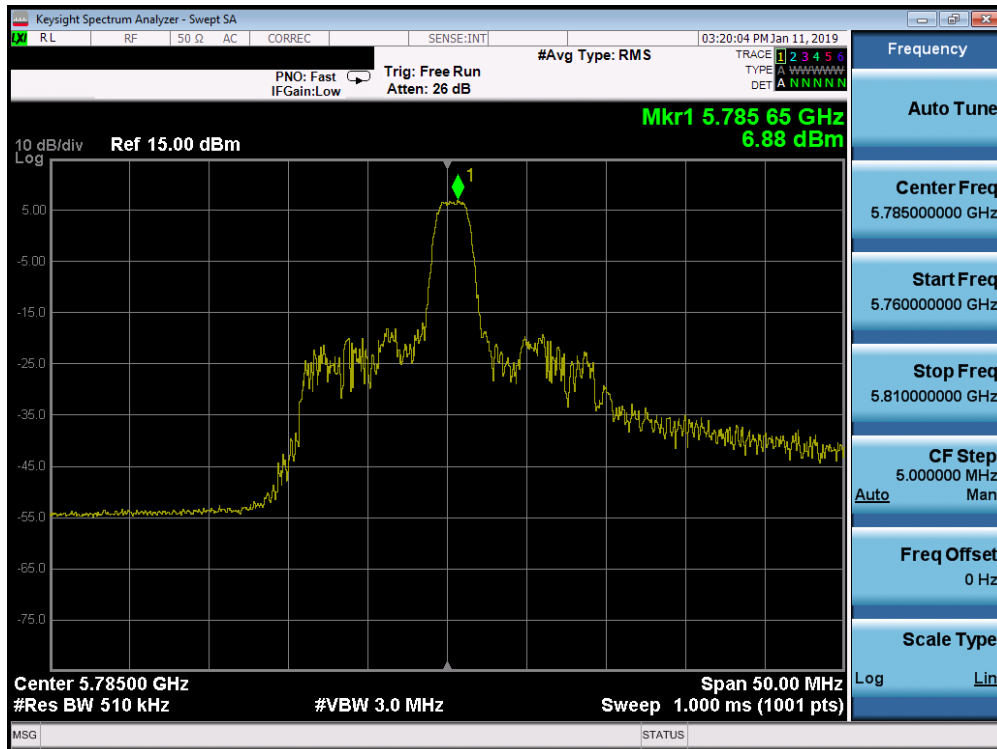
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	6.79	30.00	-23.21
	5785	157	ax (20MHz)	26T	MCS0	6.88	30.00	-23.12
	5825	165	ax (20MHz)	26T	MCS0	6.63	30.00	-23.37
	5755	151	ax (40MHz)	26T	MCS0	6.34	30.00	-23.66
	5795	159	ax (40MHz)	26T	MCS0	6.34	30.00	-23.66
	5775	155	ax (80MHz)	26T	MCS0	10.52	30.00	-19.48

Table 7-83. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

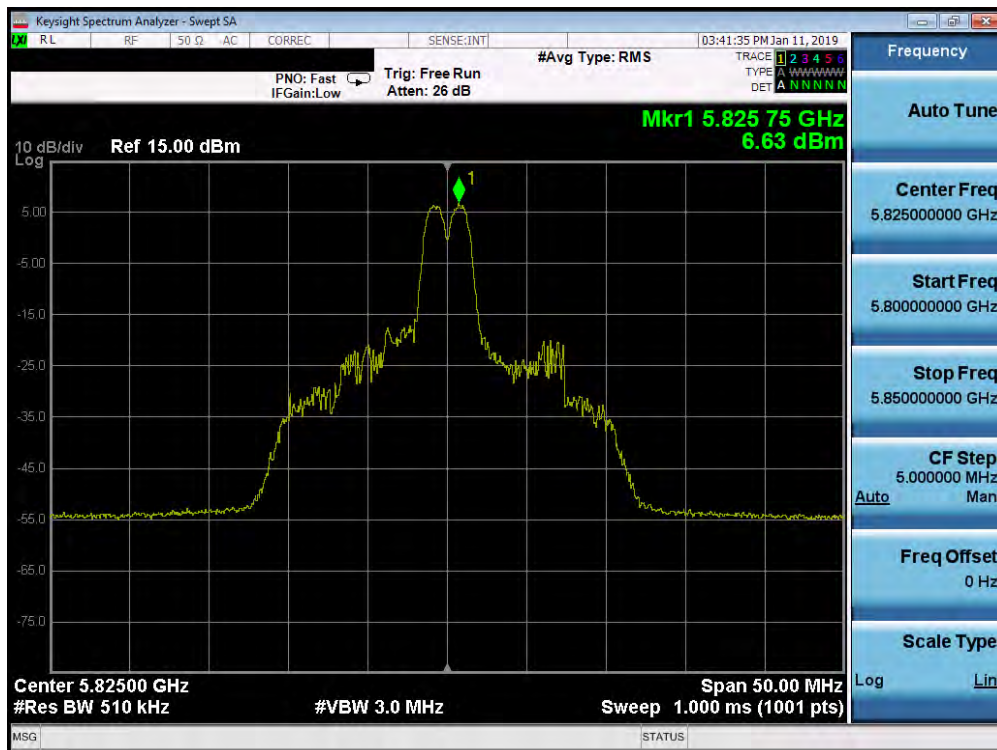


Plot 7-259. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG9730	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	Page 194 of 514

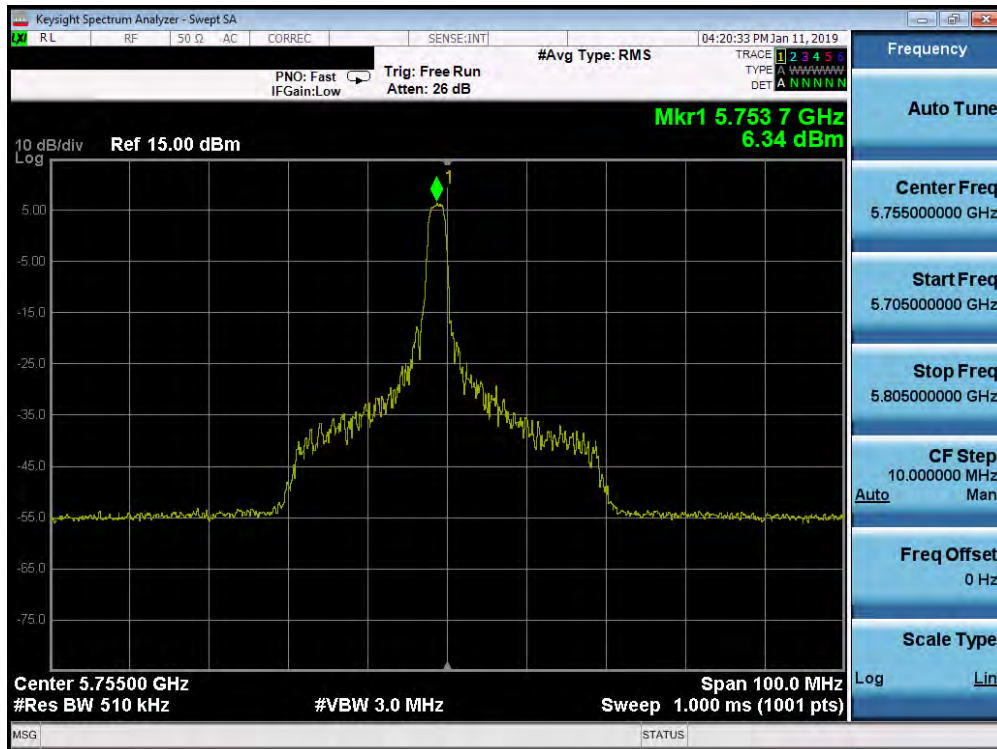


Plot 7-260. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

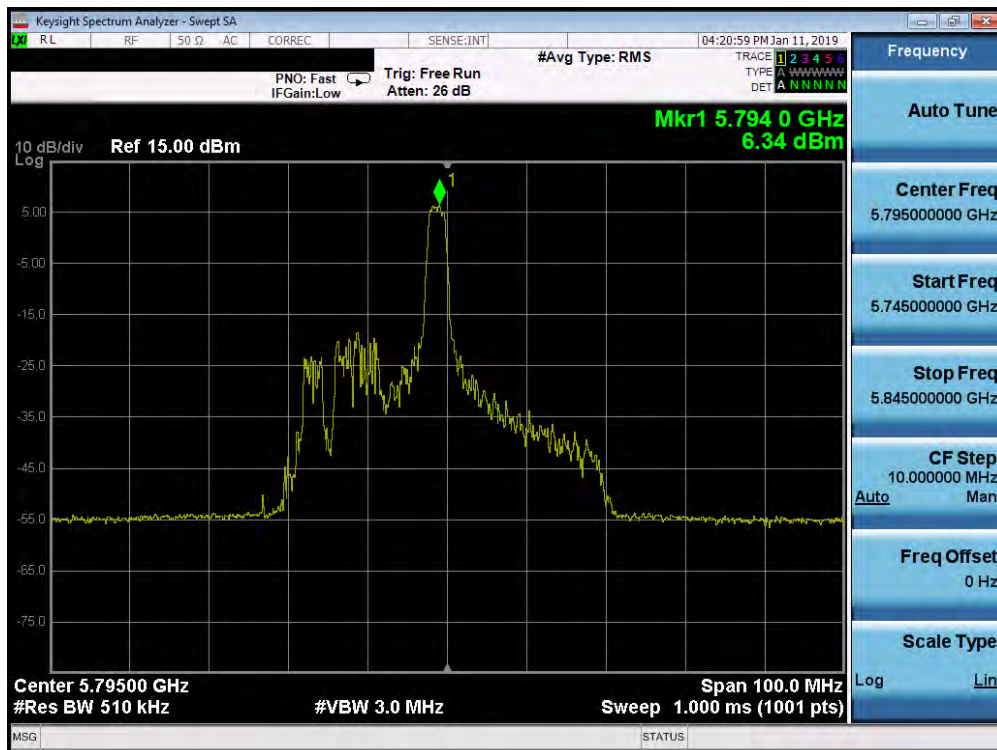


Plot 7-261. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 195 of 514

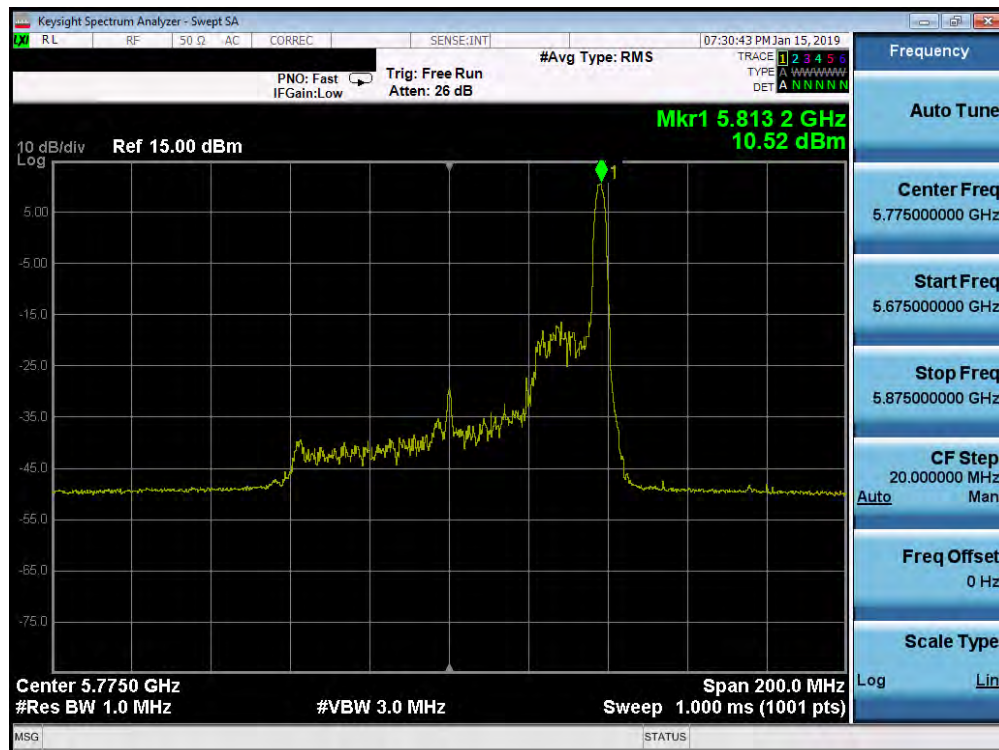


Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-263. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 196 of 514



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 197 of 514

SISO Antenna-2 Power Spectral Density Measurements (52 Tones)

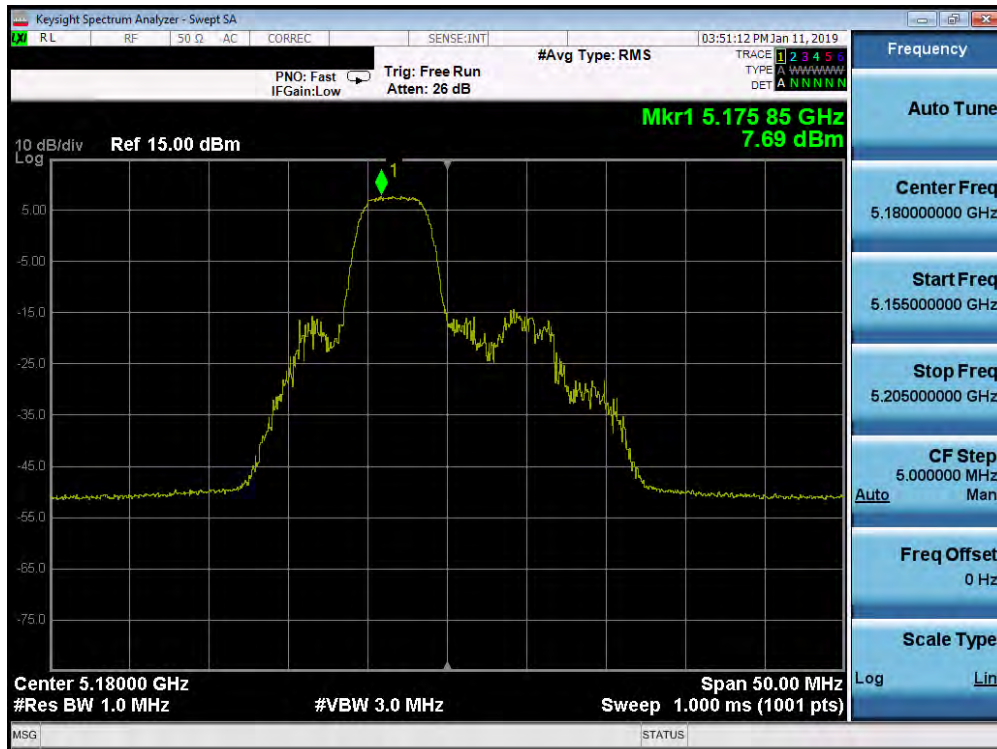
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	7.69	11.00	-3.31
	5200	40	ax (20MHz)	52T	MCS0	7.79	11.00	-3.21
	5240	48	ax (20MHz)	52T	MCS0	7.88	11.00	-3.12
	5190	38	ax (40MHz)	52T	MCS0	7.60	11.00	-3.40
	5230	46	ax (40MHz)	52T	MCS0	7.79	11.00	-3.21
	5210	42	ax (80MHz)	52T	MCS0	9.40	11.00	-1.60
Band 2A	5260	52	ax (20MHz)	52T	MCS0	7.63	11.00	-3.37
	5280	56	ax (20MHz)	52T	MCS0	7.64	11.00	-3.36
	5320	64	ax (20MHz)	52T	MCS0	8.06	11.00	-2.94
	5270	54	ax (40MHz)	52T	MCS0	7.29	11.00	-3.71
	5310	62	ax (40MHz)	52T	MCS0	7.65	11.00	-3.35
	5290	58	ax (80MHz)	52T	MCS0	8.76	11.00	-2.24
Band 2C	5500	100	ax (20MHz)	52T	MCS0	8.60	11.00	-2.40
	5600	120	ax (20MHz)	52T	MCS0	8.60	11.00	-2.40
	5720	144	ax (20MHz)	52T	MCS0	8.19	11.00	-2.81
	5510	102	ax (40MHz)	52T	MCS0	7.78	11.00	-3.22
	5590	118	ax (40MHz)	52T	MCS0	7.78	11.00	-3.22
	5710	142	ax (40MHz)	52T	MCS0	7.53	11.00	-3.47
	5530	106	ax (80MHz)	52T	MCS0	9.03	11.00	-1.97
	5610	122	ax (80MHz)	52T	MCS0	9.70	11.00	-1.30
	5690	138	ax (80MHz)	52T	MCS0	9.50	11.00	-1.50

Table 7-84. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (52 Tones)

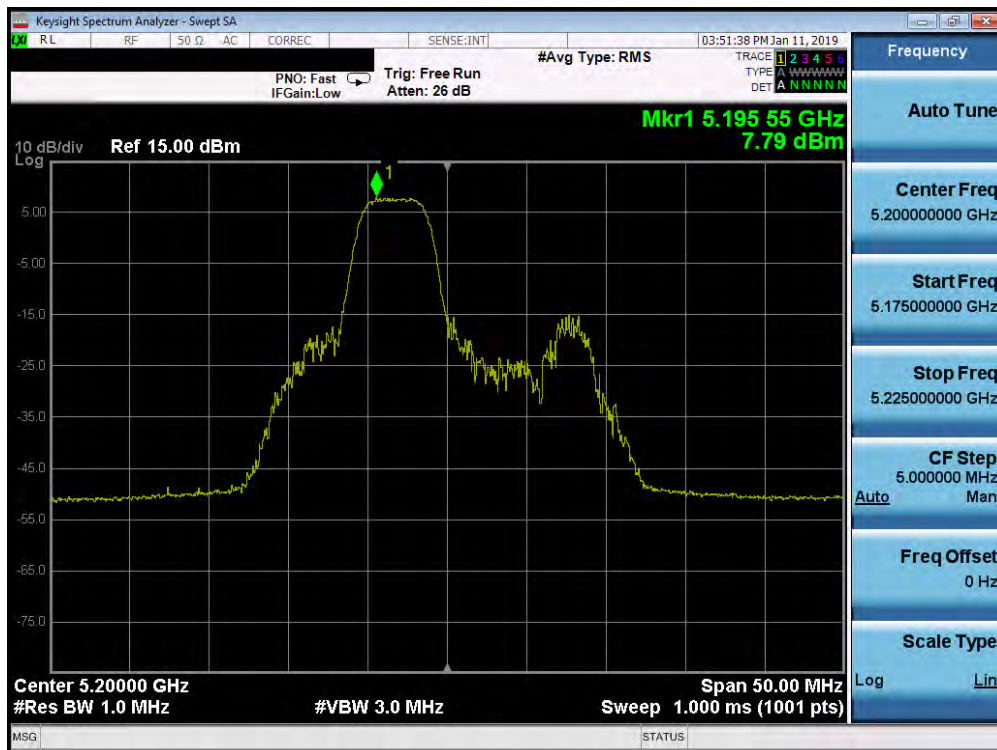
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	7.69	-7.70	-0.01	10.0	-10.01
	5200	40	ax (20MHz)	52T	MCS0	7.79	-7.57	0.22	10.0	-9.78
	5240	48	ax (20MHz)	52T	MCS0	7.88	-8.01	-0.13	10.0	-10.13
	5190	38	ax (40MHz)	52T	MCS0	7.60	-7.57	0.03	10.0	-9.97
	5230	46	ax (40MHz)	52T	MCS0	7.79	-8.01	-0.22	10.0	-10.22
	5210	42	ax (80MHz)	52T	MCS0	9.40	-7.57	1.83	10.0	-8.17

Table 7-85. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 52 Tones)

FCC ID: A3LSMG9730	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset	
			Page 198 of 514

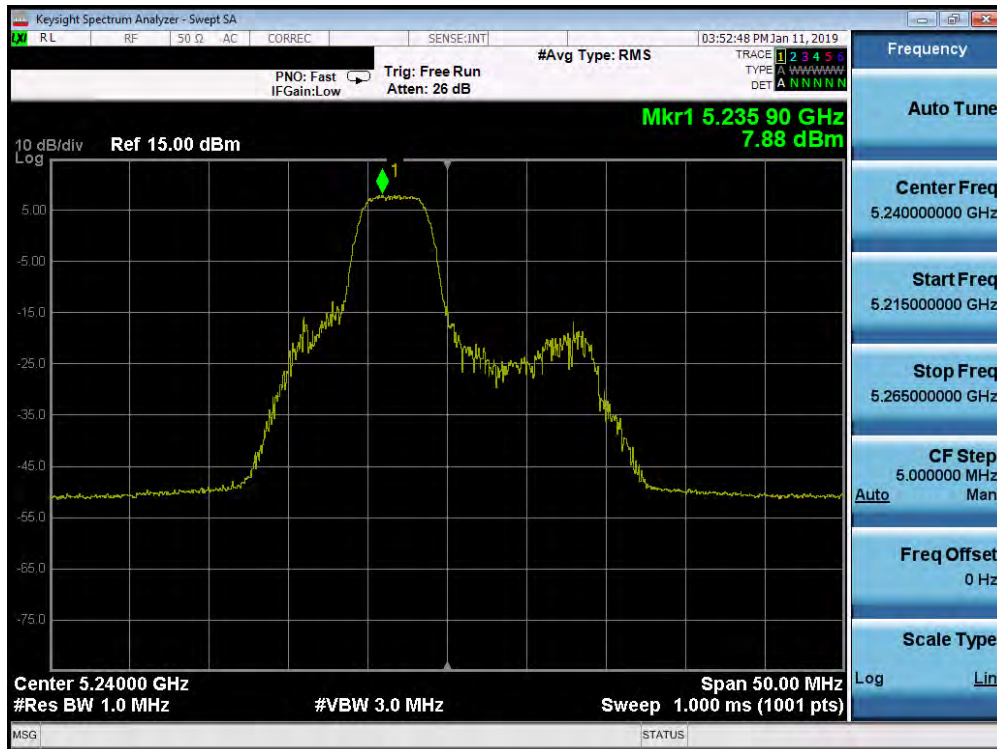


Plot 7-265. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)

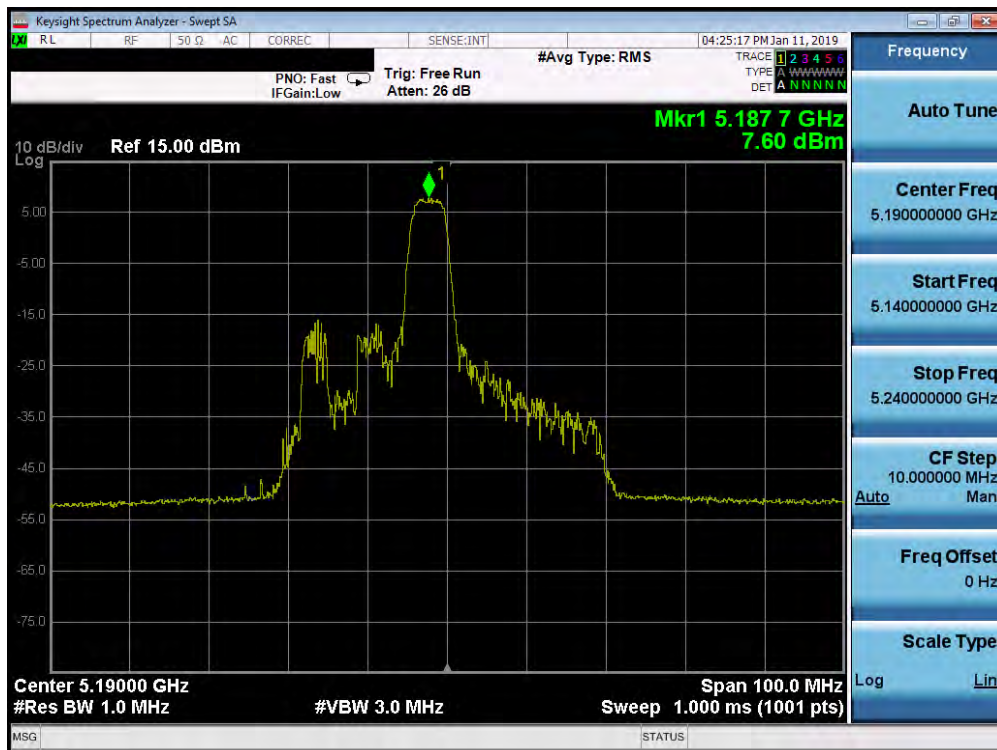


Plot 7-266. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 199 of 514

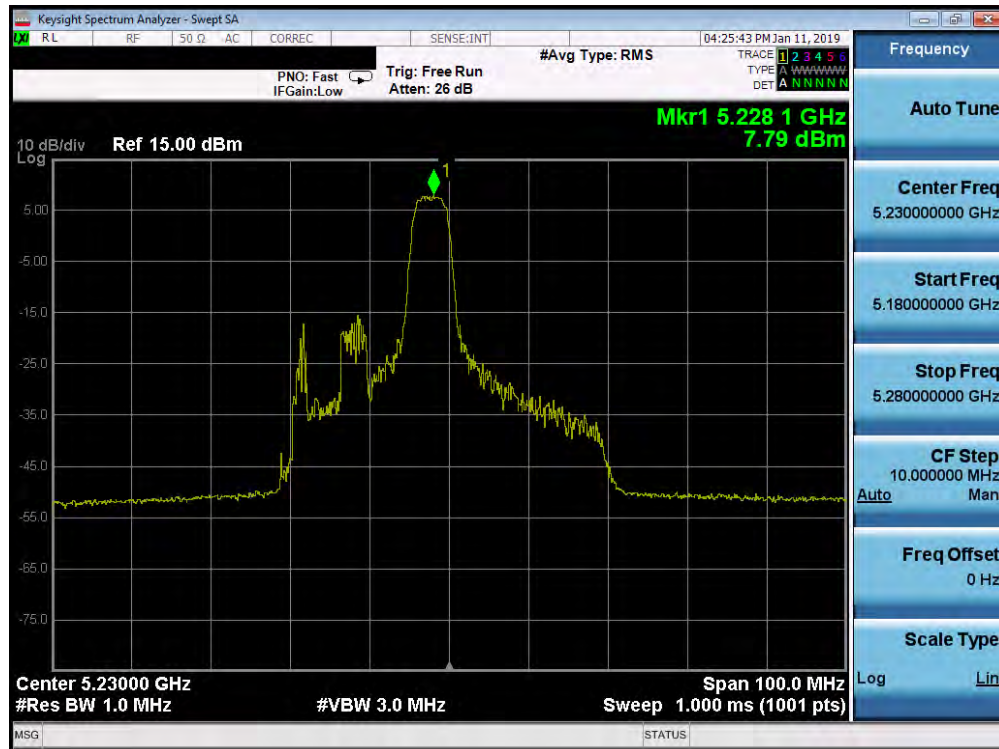


Plot 7-267. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

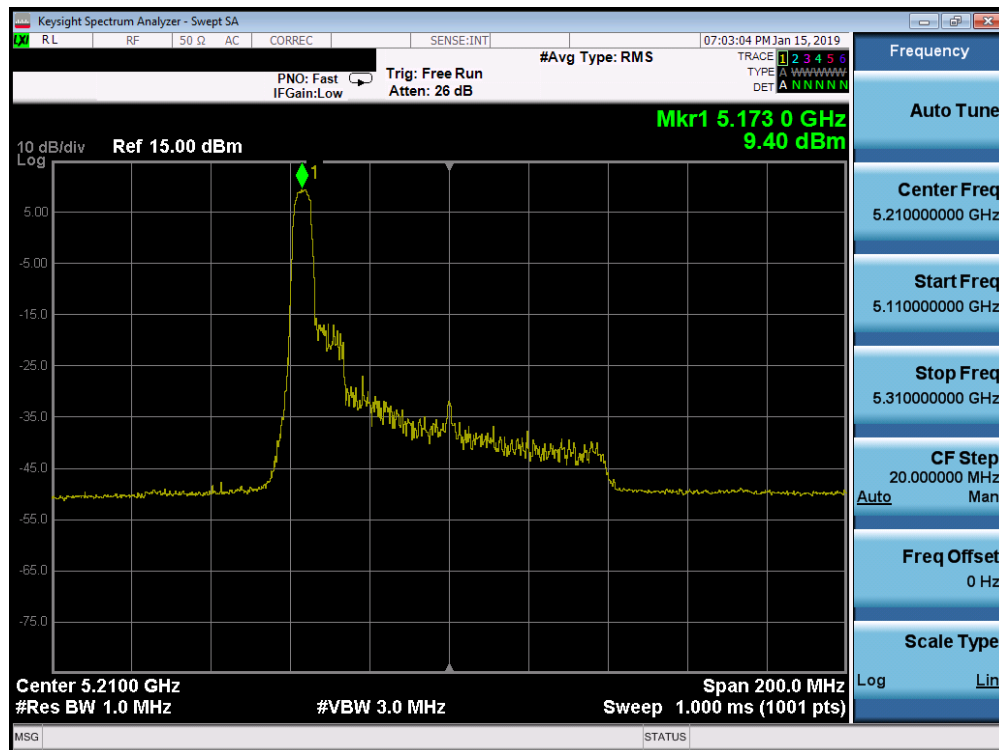


Plot 7-268. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 200 of 514

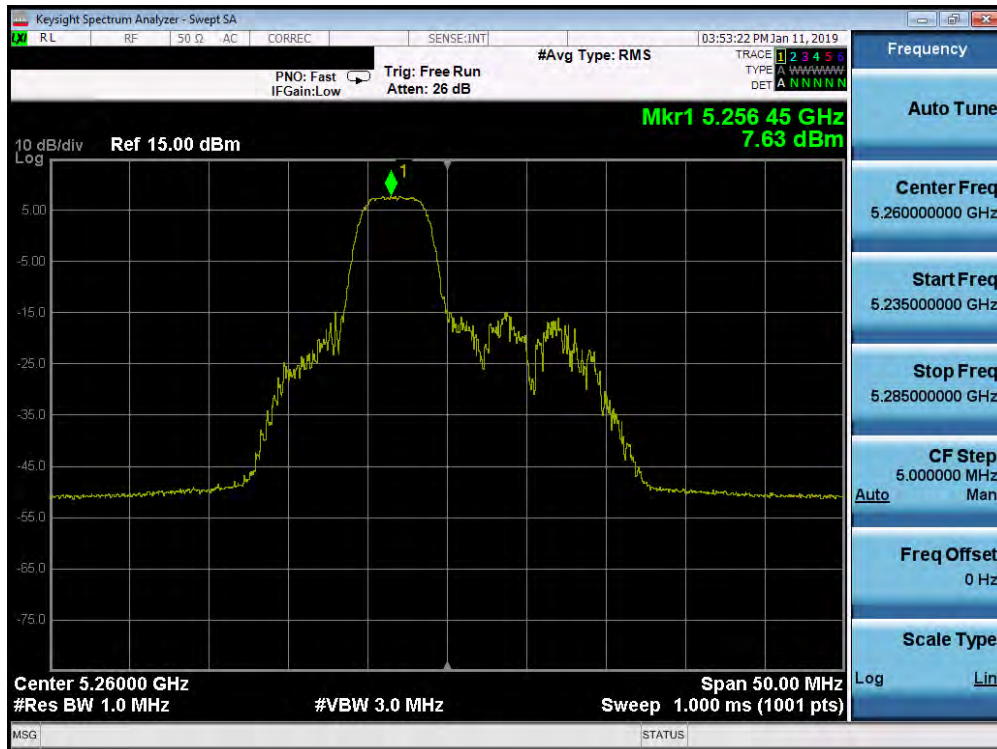


Plot 7-269. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

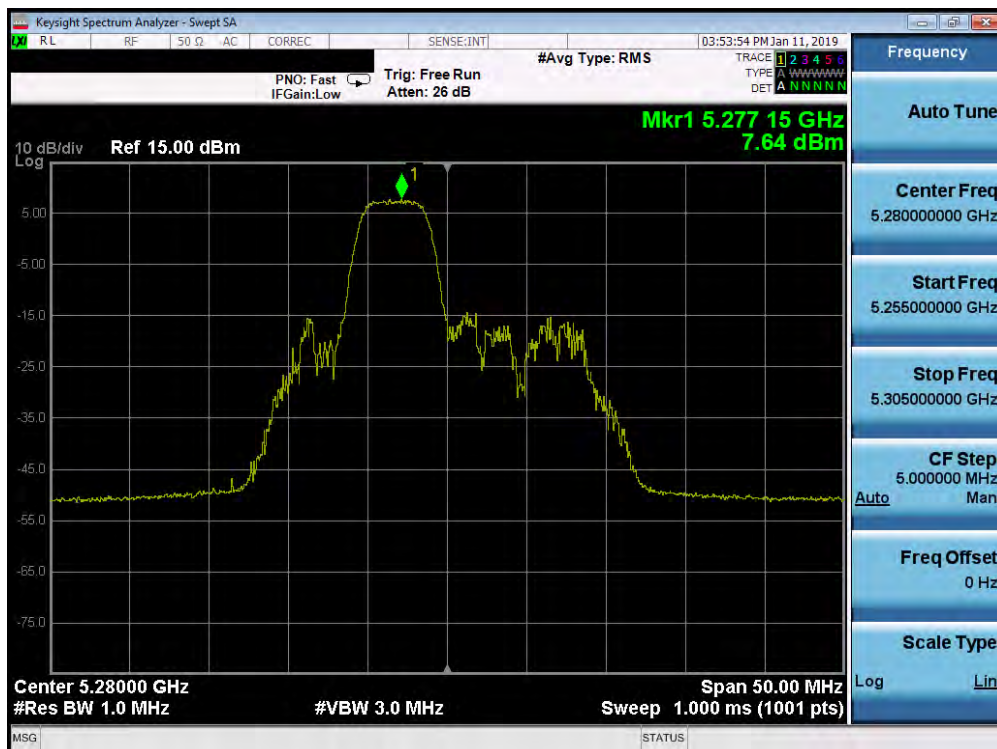


Plot 7-270. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 201 of 514

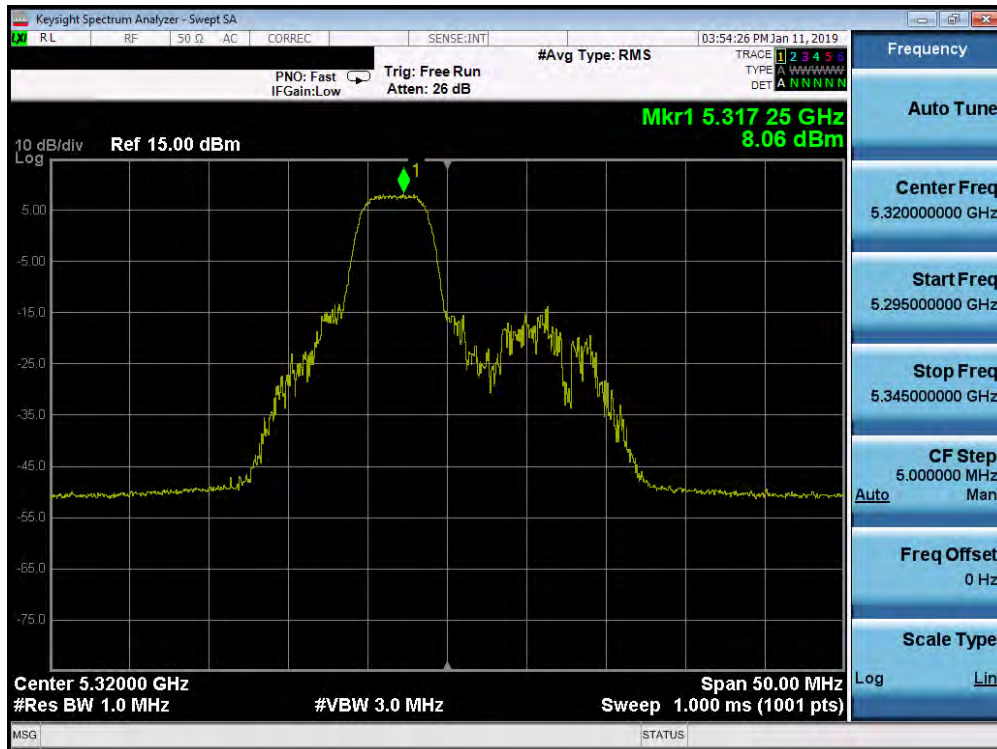


Plot 7-271. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

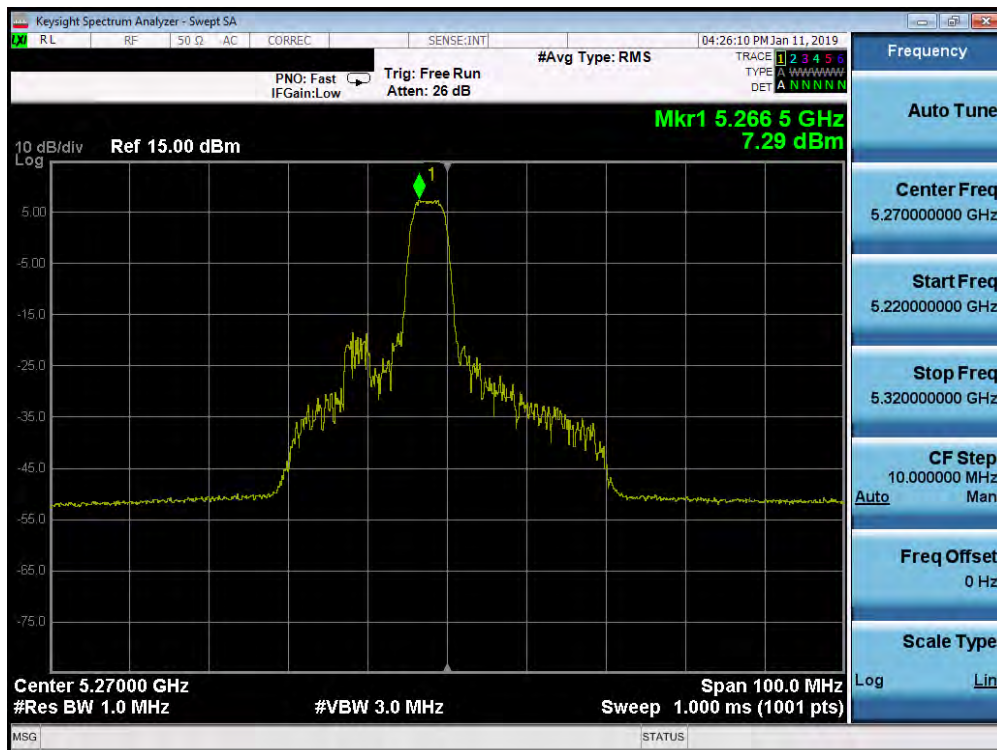


Plot 7-272. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 202 of 514

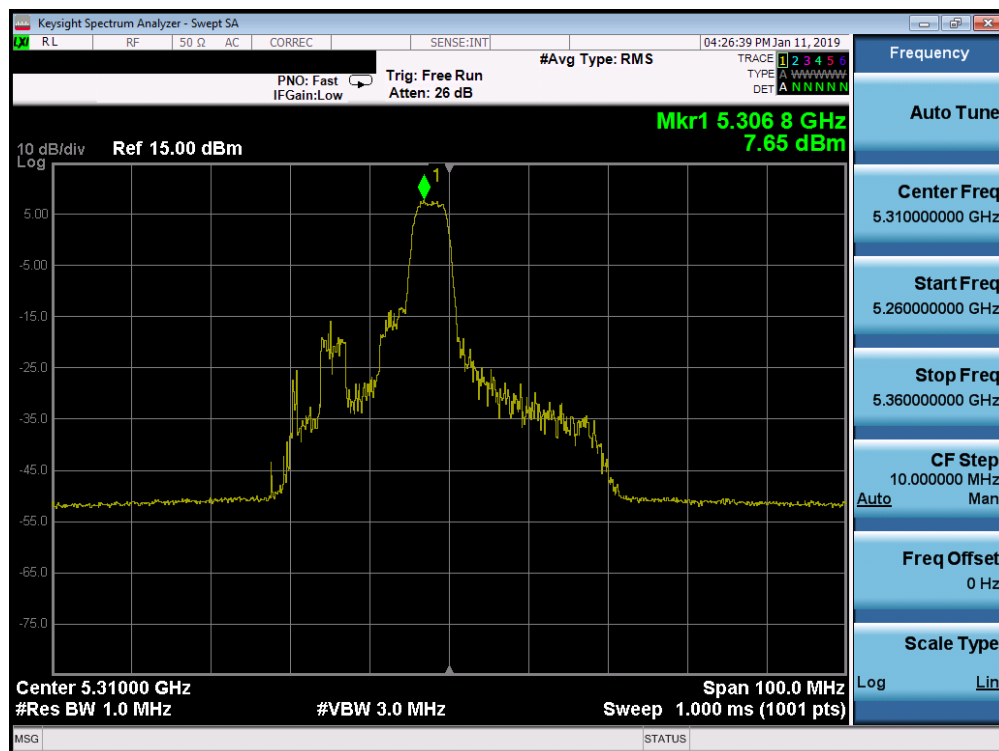


Plot 7-273. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

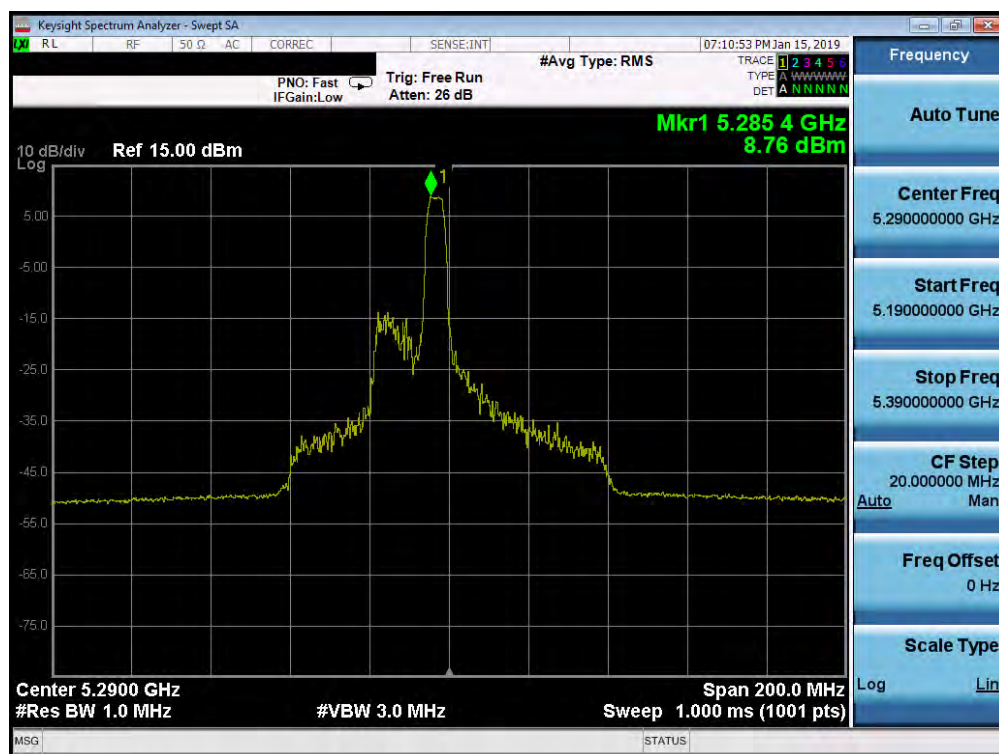


Plot 7-274. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 203 of 514

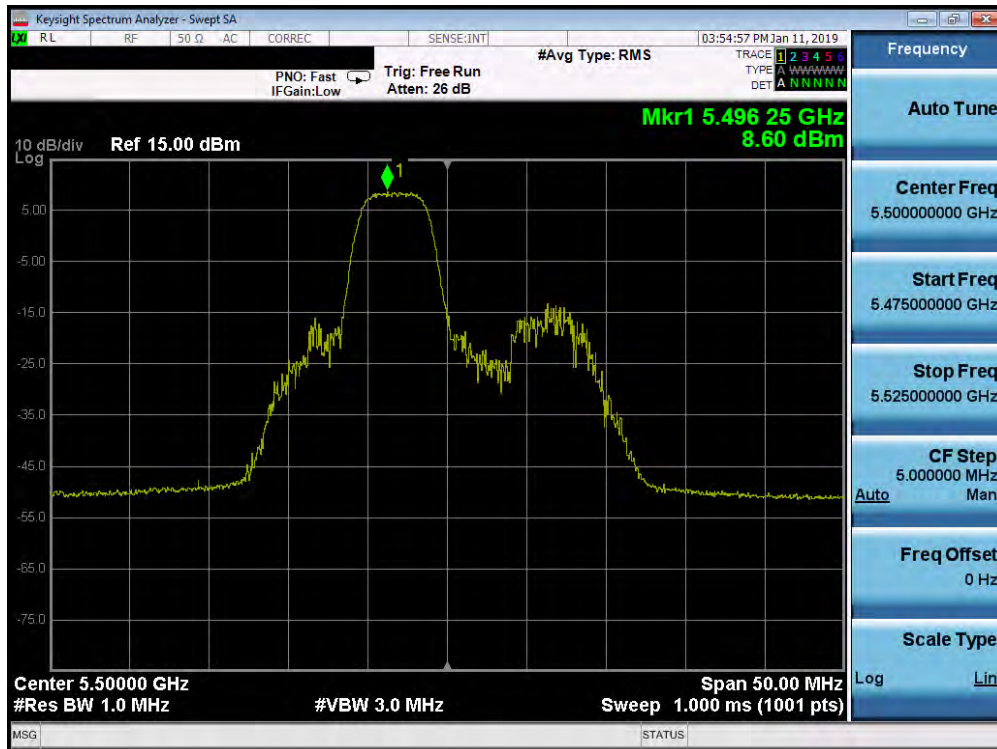


Plot 7-275. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

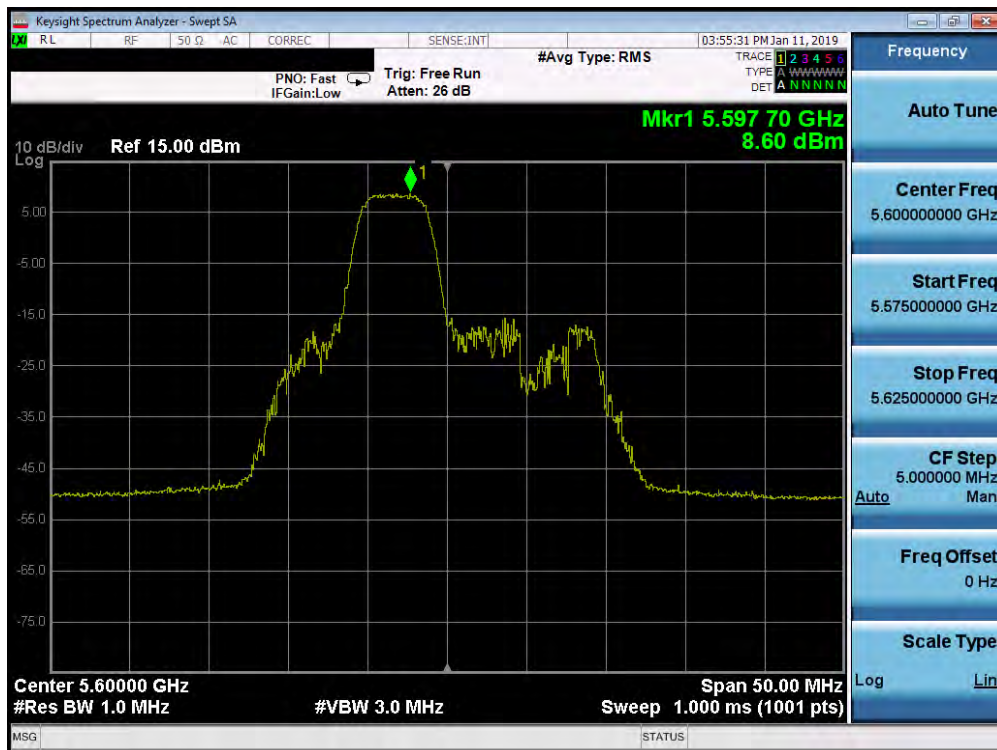


Plot 7-276. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 204 of 514

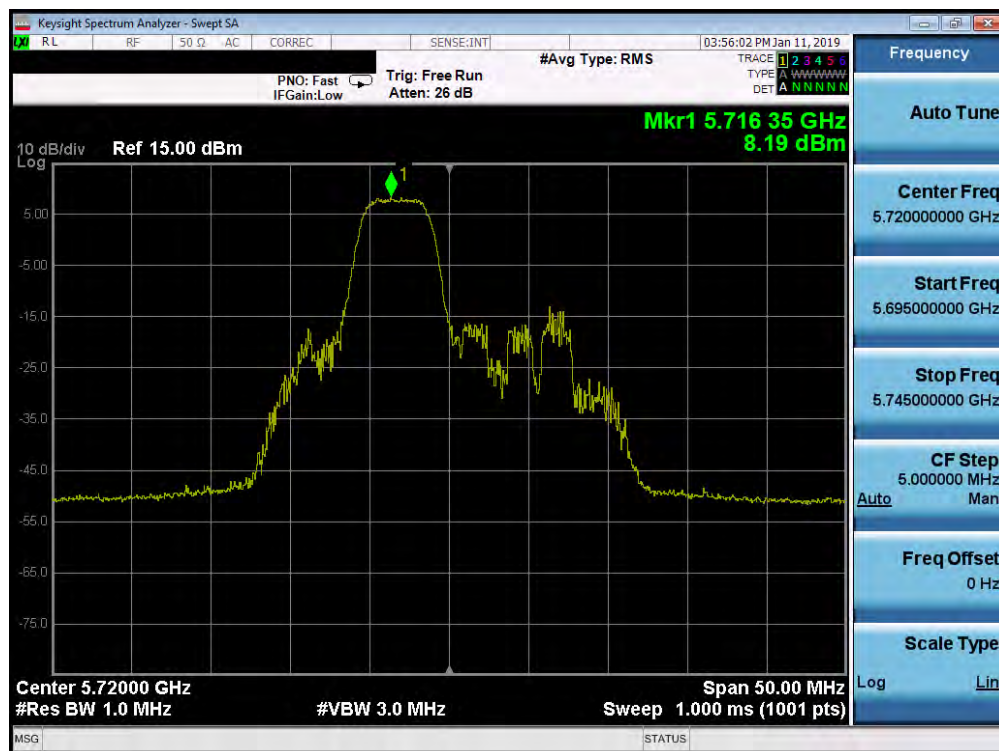


Plot 7-277. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

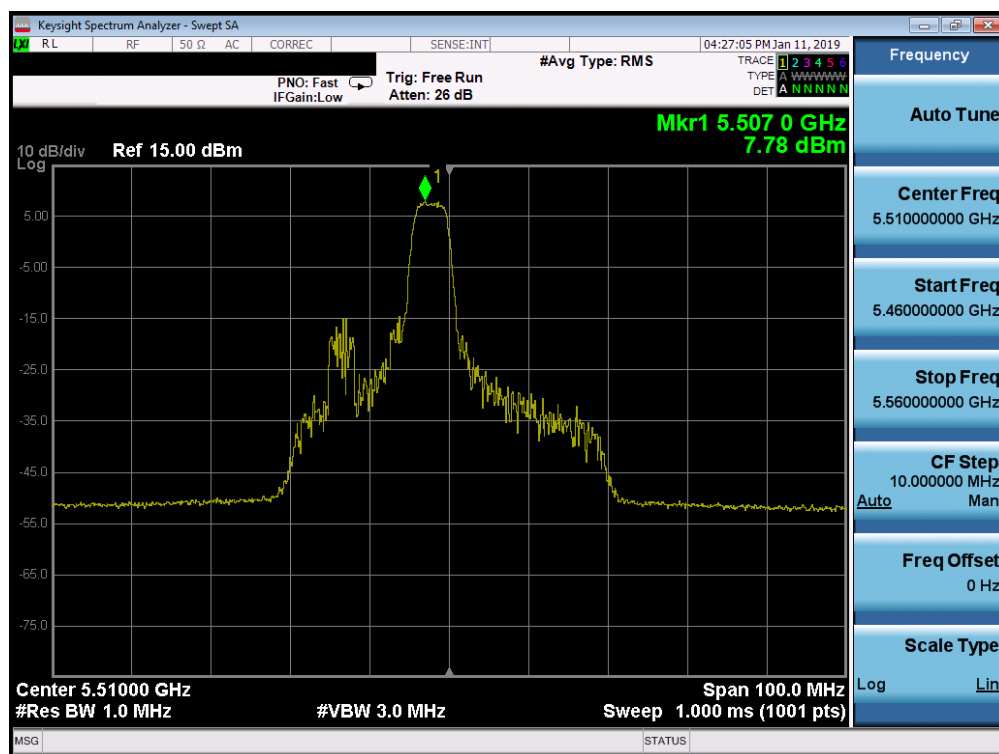


Plot 7-278. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 205 of 514

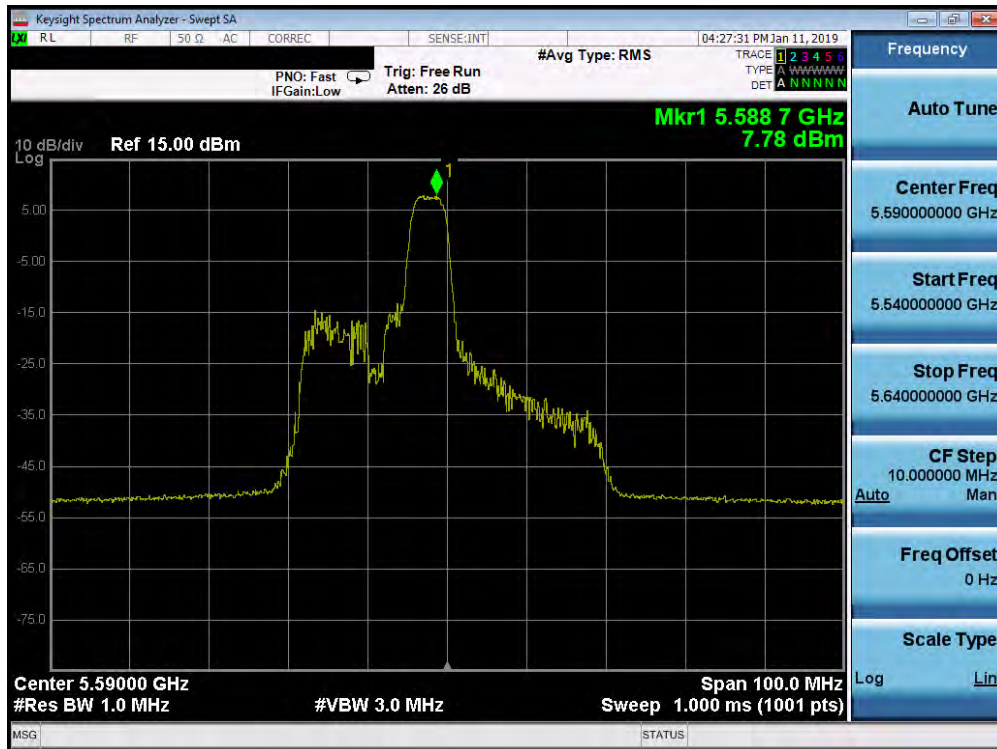


Plot 7-279. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

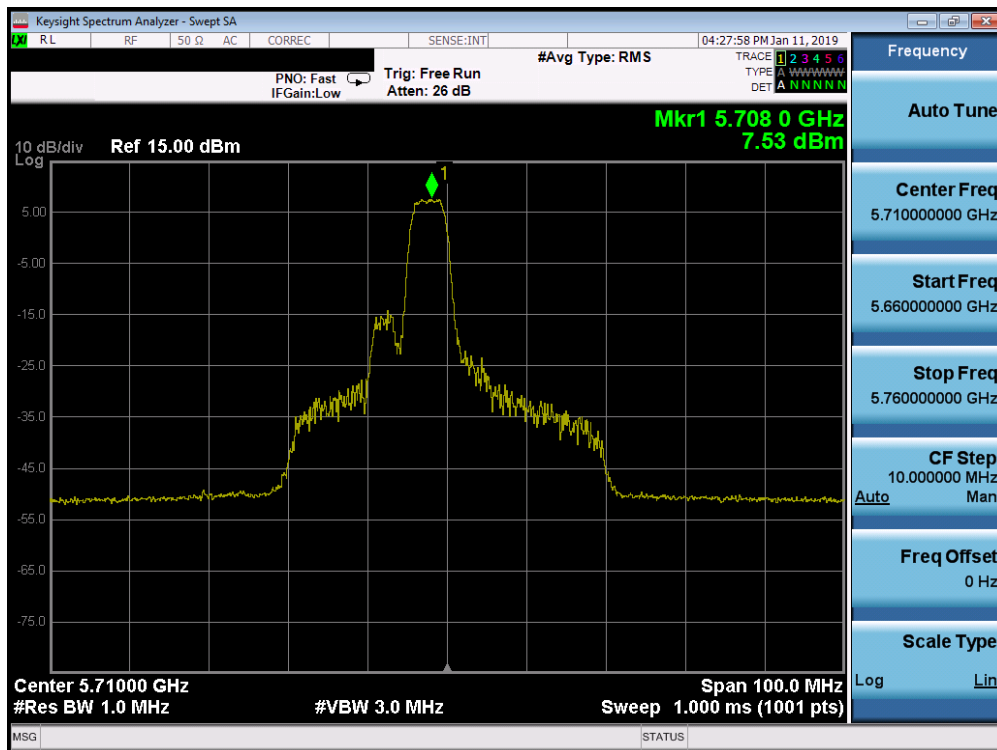


Plot 7-280. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 206 of 514

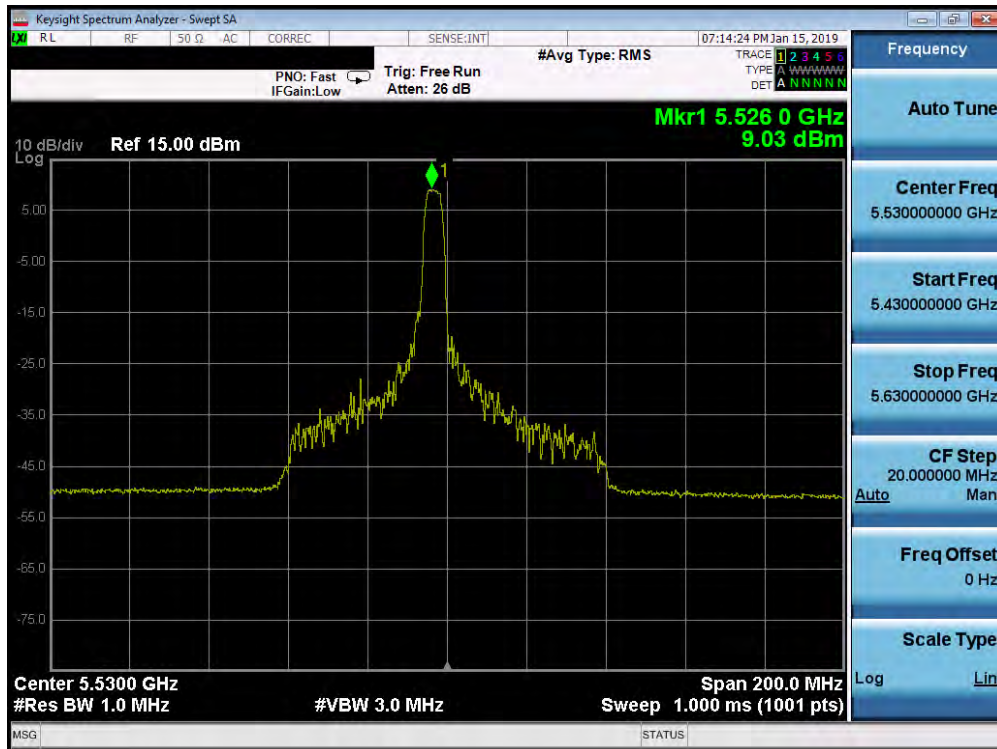


Plot 7-281. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

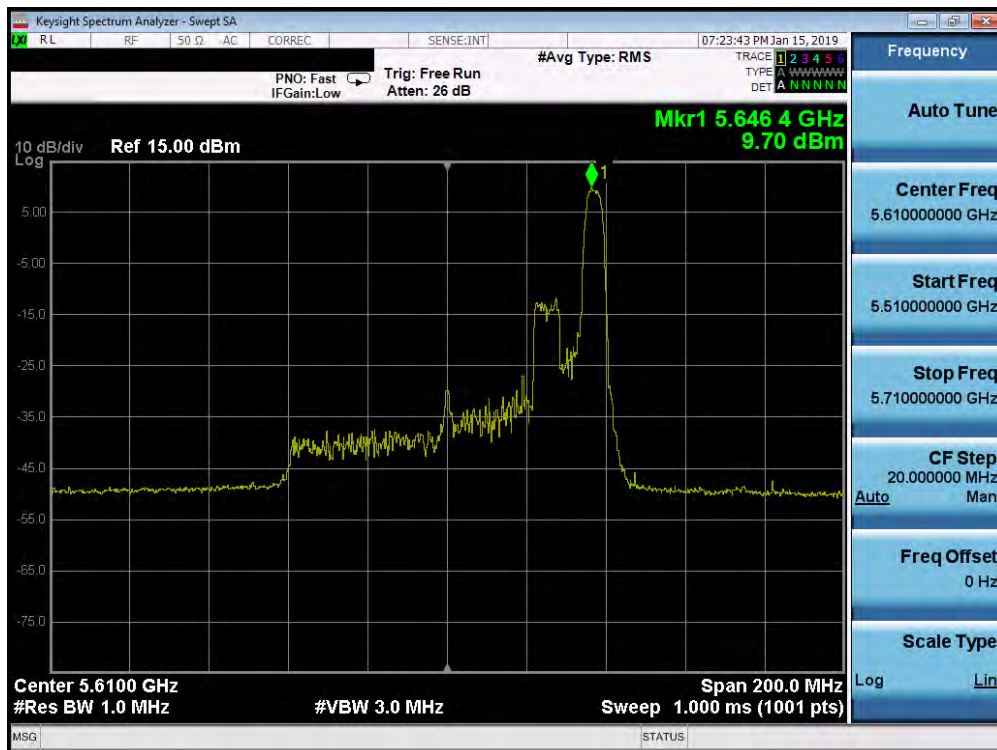


Plot 7-282. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 207 of 514

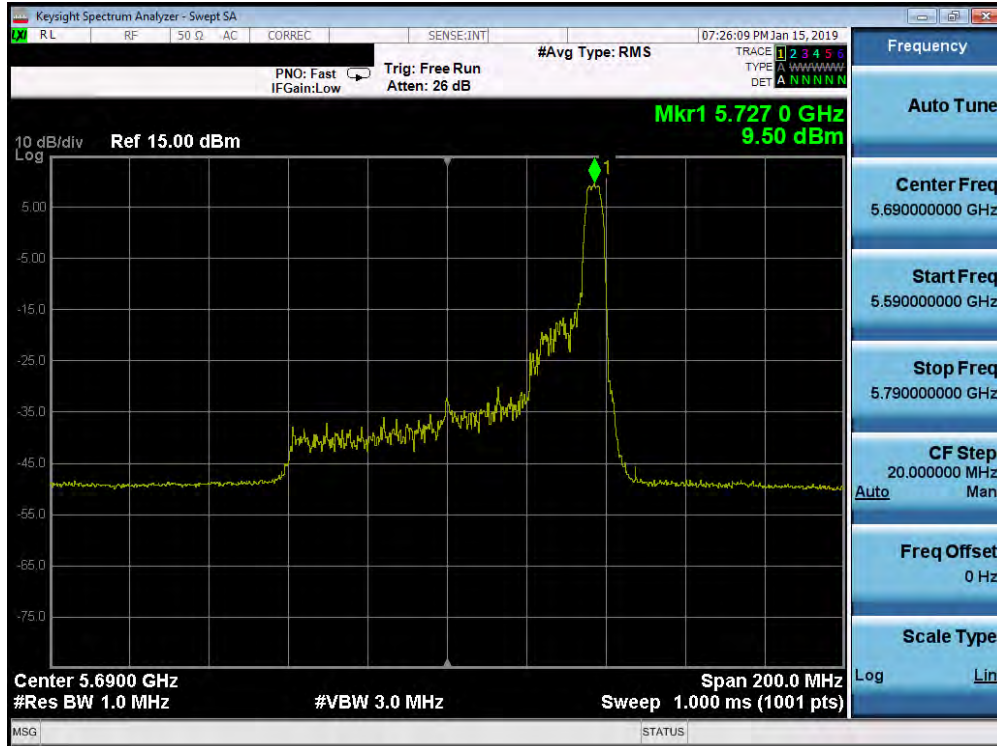


Plot 7-283. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)



Plot 7-284. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 208 of 514

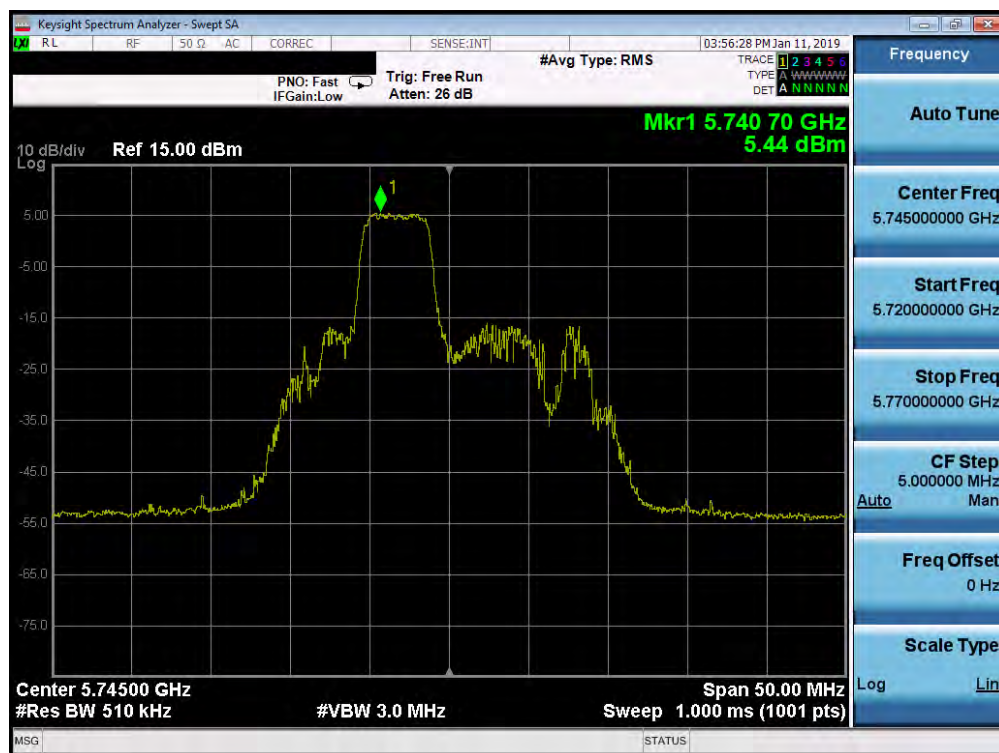


Plot 7-285. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 209 of 514

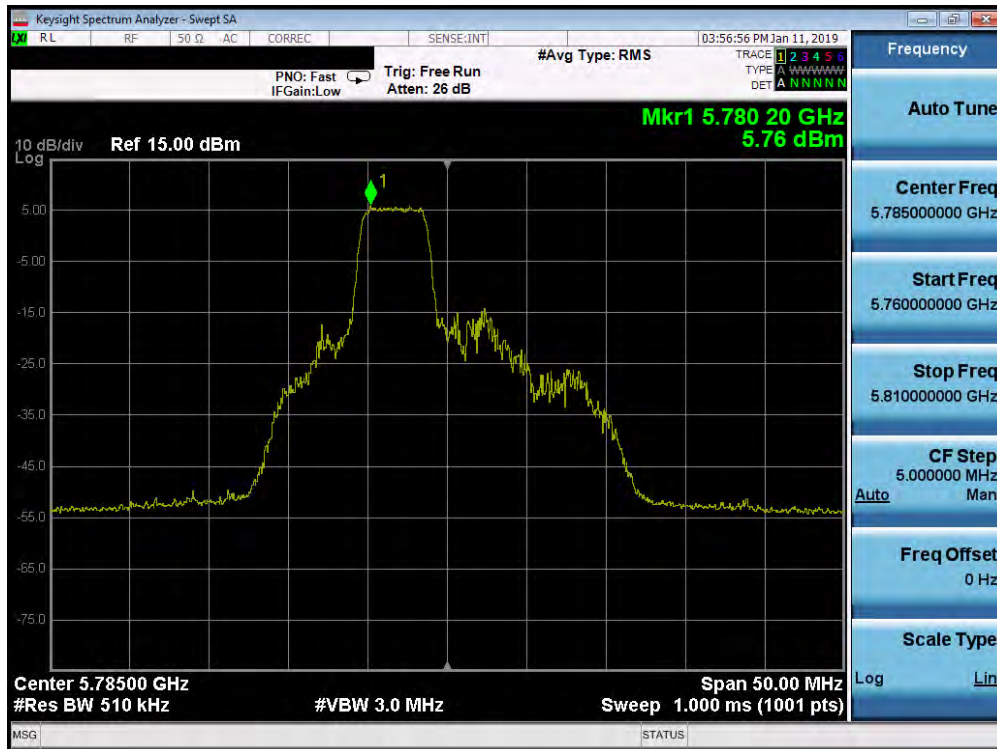
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	52T	MCS0	5.44	30.00	-24.56
	5785	157	ax (20MHz)	52T	MCS0	5.76	30.00	-24.24
	5825	165	ax (20MHz)	52T	MCS0	5.47	30.00	-24.53
	5755	151	ax (40MHz)	52T	MCS0	5.18	30.00	-24.82
	5795	159	ax (40MHz)	52T	MCS0	5.03	30.00	-24.97
	5775	155	ax (80MHz)	52T	MCS0	10.24	30.00	-19.76

Table 7-86. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (52 Tones)

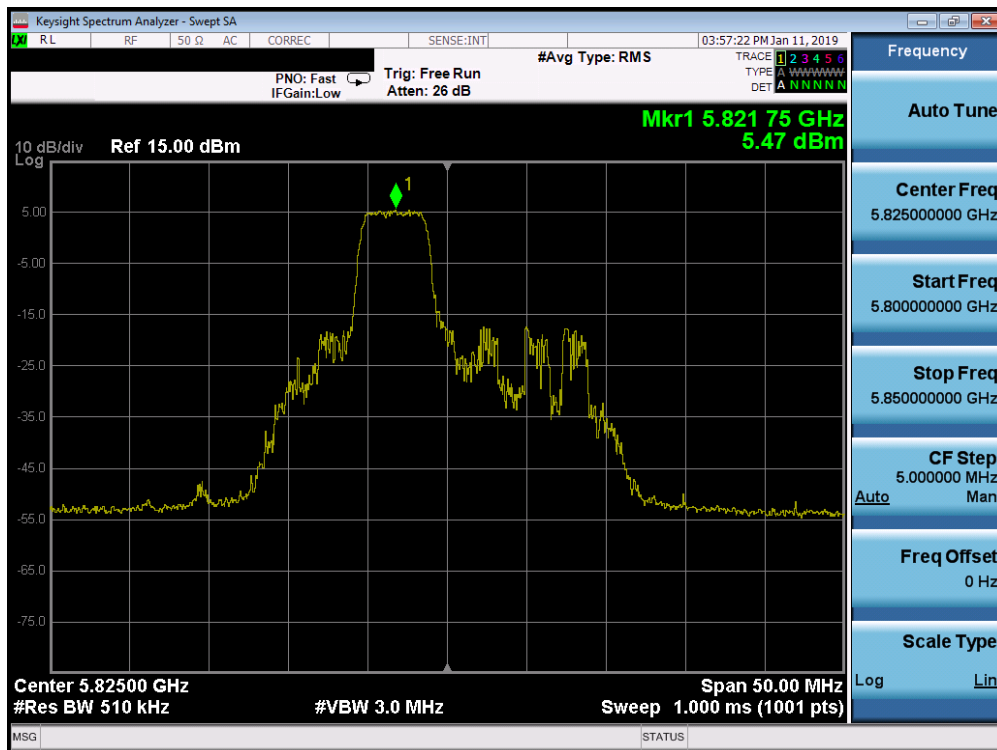


Plot 7-286. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 210 of 514

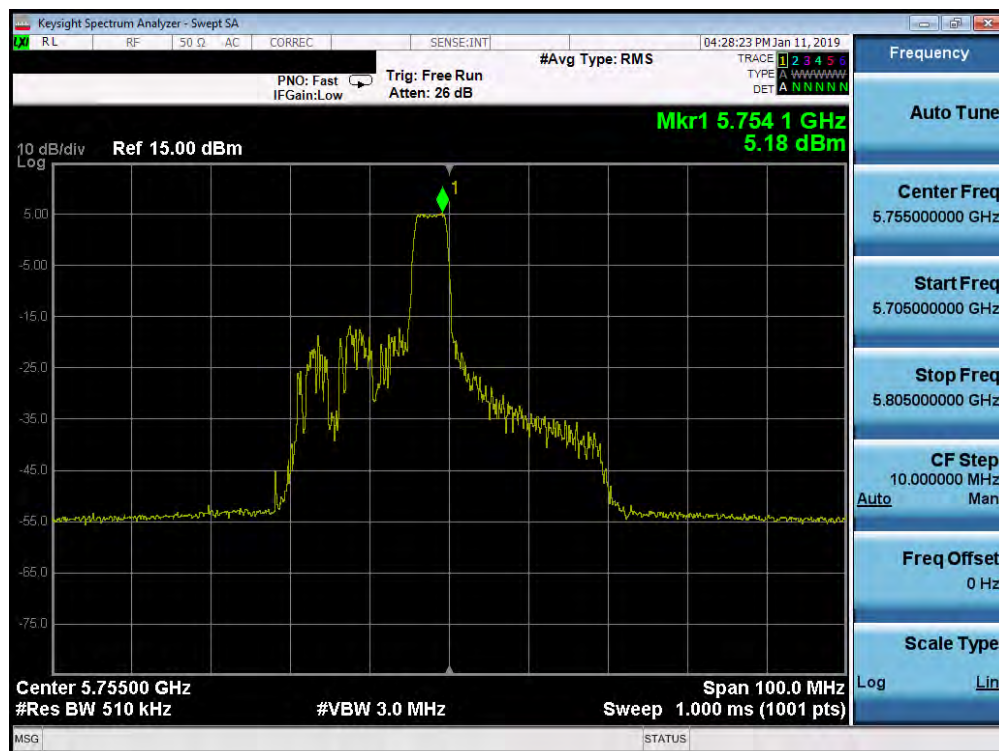


Plot 7-287. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

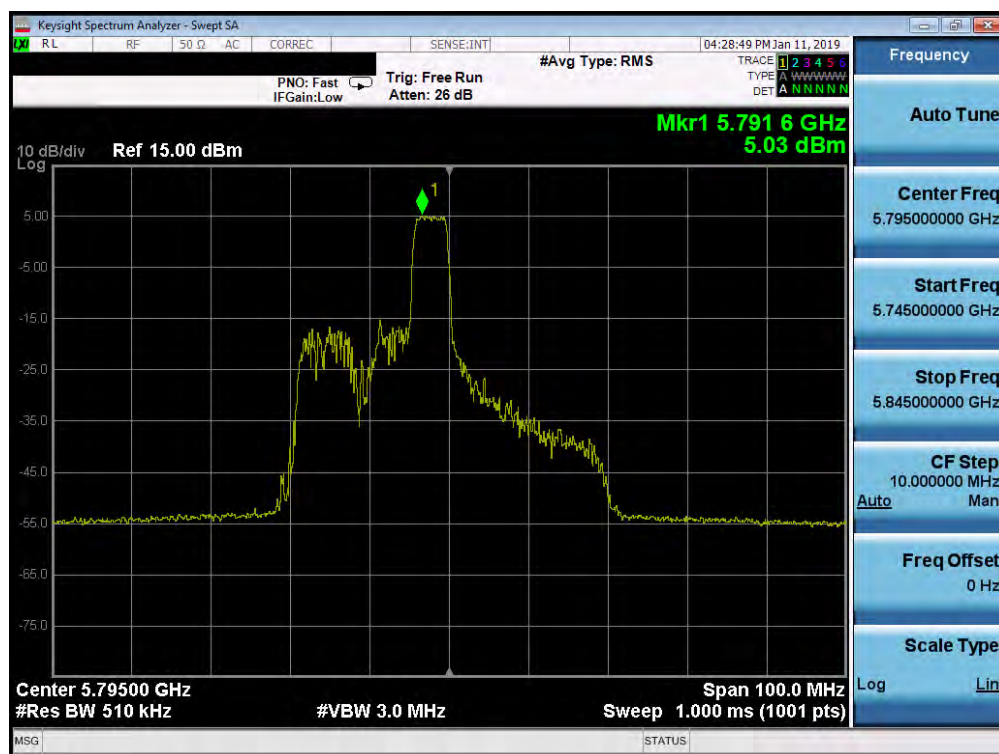


Plot 7-288. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG9730	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 211 of 514



Plot 7-289. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)



Plot 7-290. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9730		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1811230206-15.A3L	Test Dates: 10/23 - 1/26/2018	EUT Type: Portable Handset		Page 212 of 514