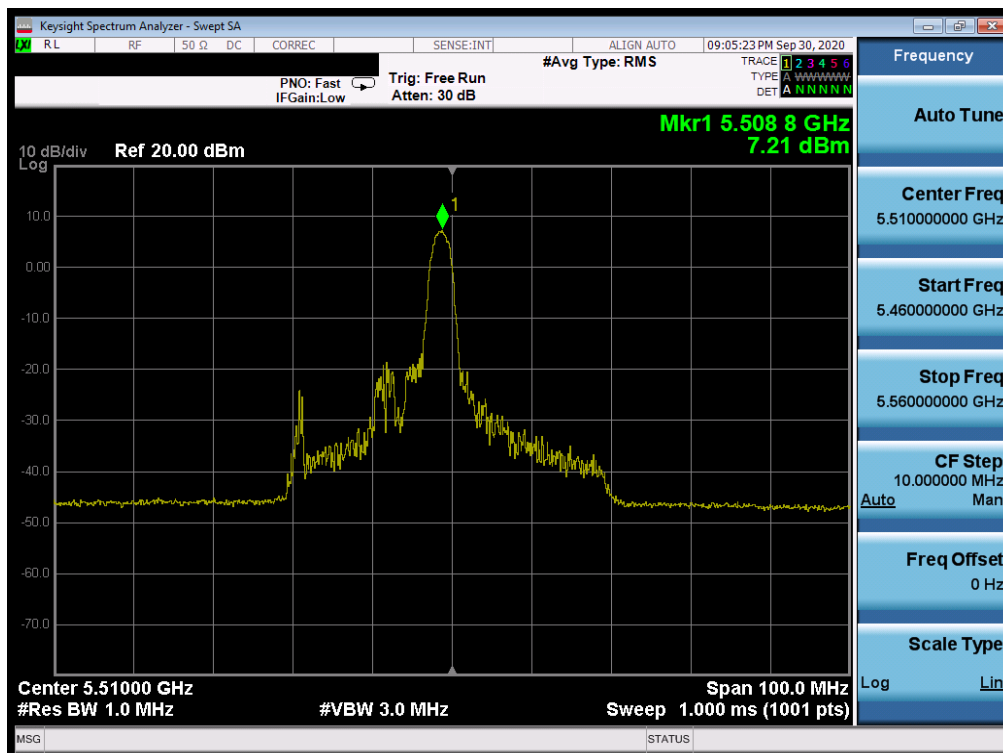
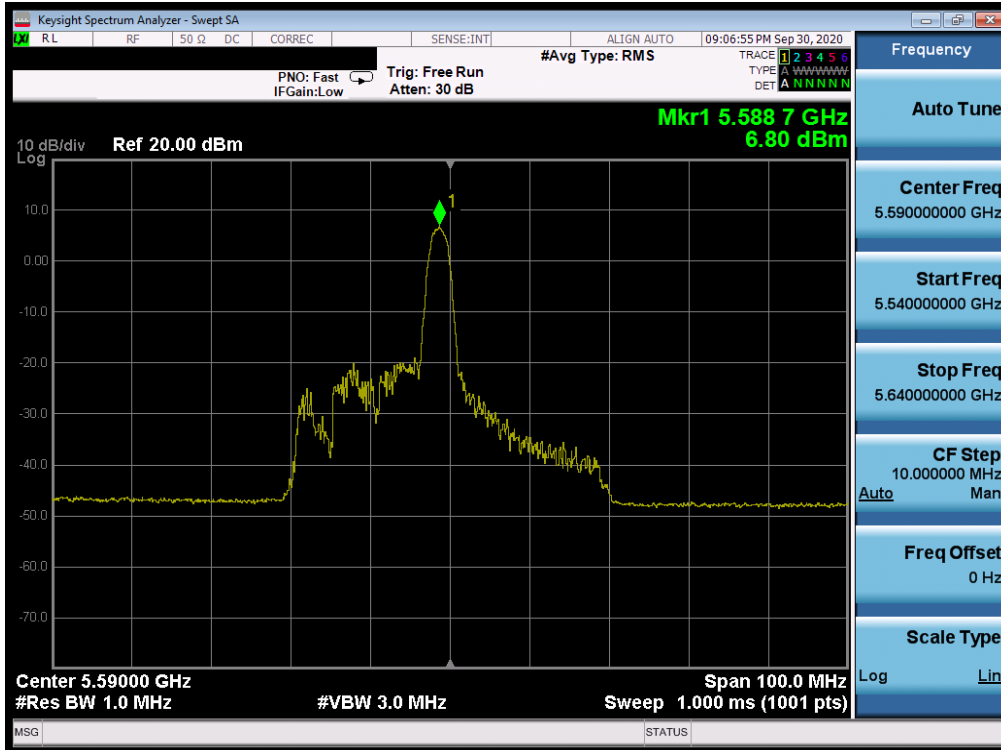


Plot 7-177. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

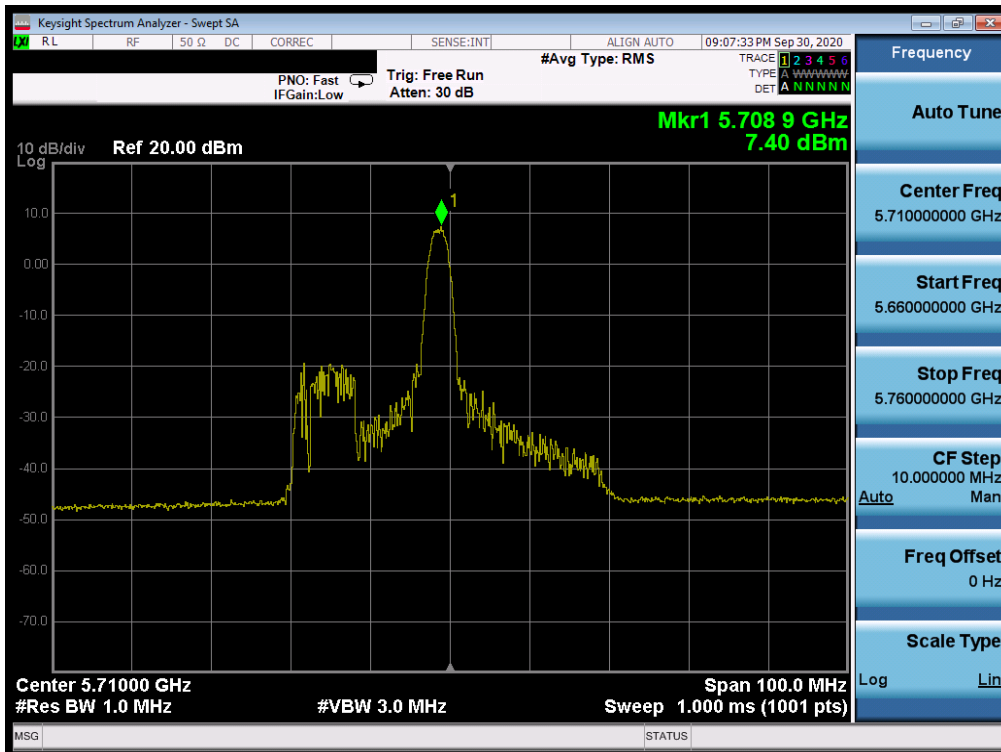


Plot 7-178. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 141 of 307

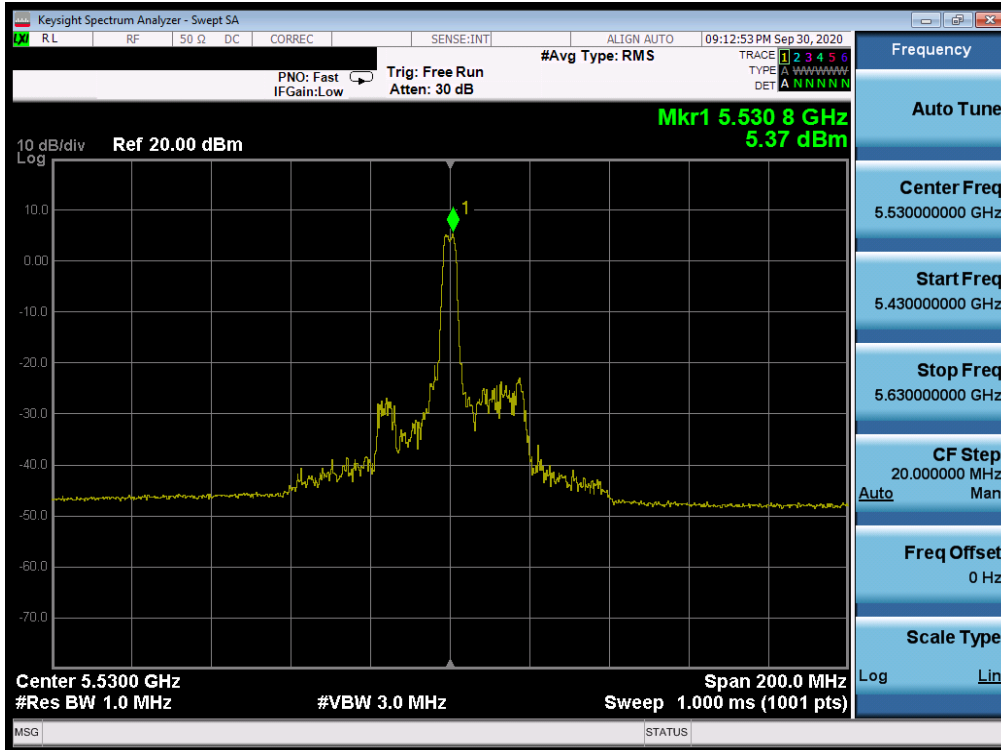


Plot 7-179. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-180. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 142 of 307

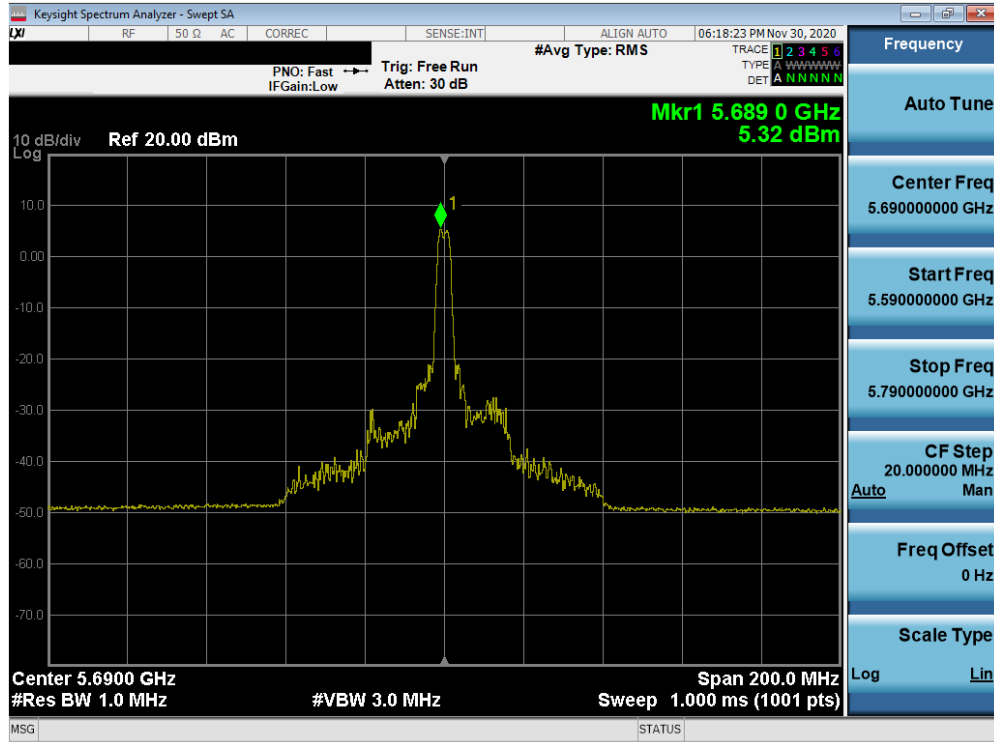


Plot 7-181. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 143 of 307



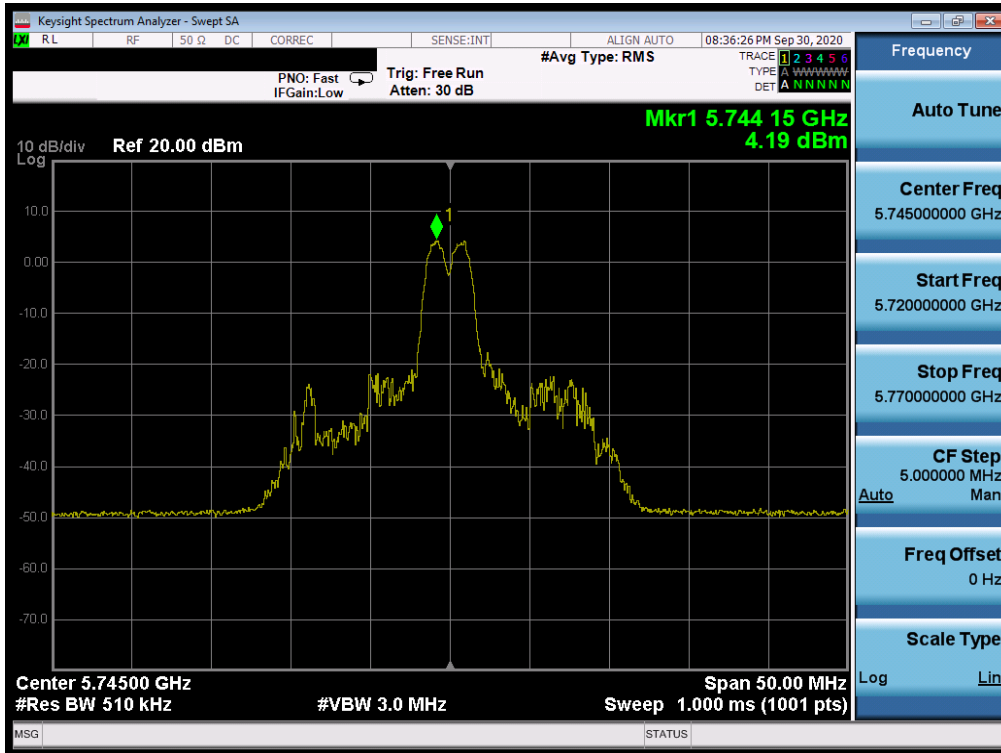
Plot 7-183. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG996U		<p align="center"><b>MEASUREMENT REPORT (CERTIFICATION)</b></p> 	<p>Approved by: Quality Manager</p>
<p>Test Report S/N: 1M2009140143-09.A3L</p>	<p>Test Dates: 09/15 - 12/01/2020</p>	<p>EUT Type: Portable Handset</p>	<p>Page 144 of 307</p>

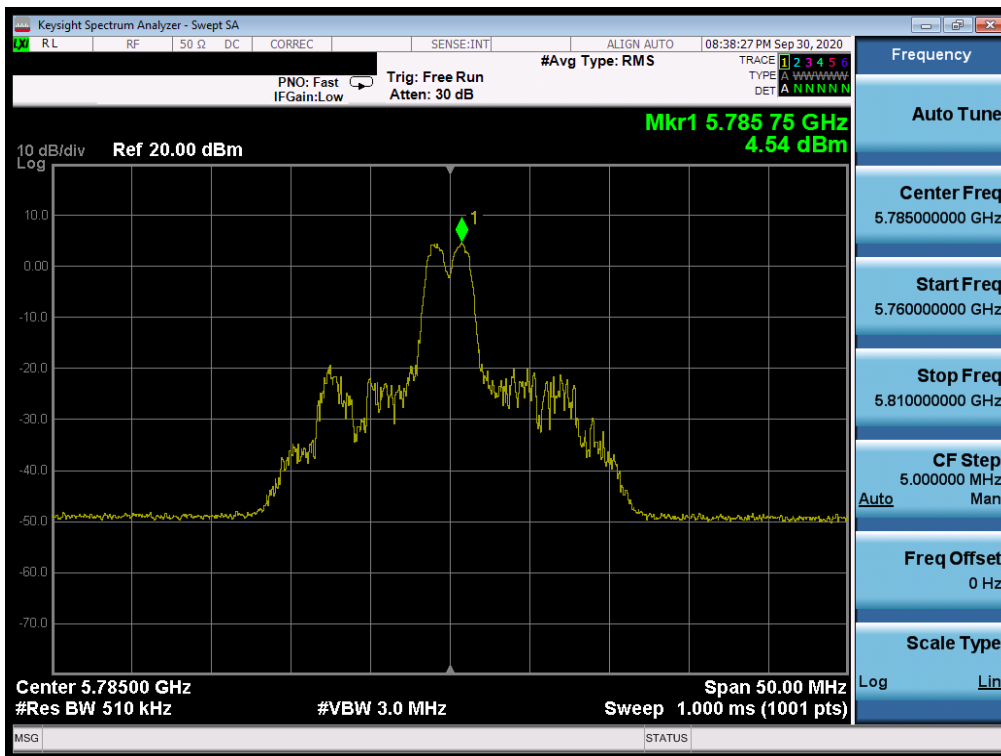
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	ax (20MHz)	26T	MCS0	4.19	30.00	-25.81
	5785	157	ax (20MHz)	26T	MCS0	4.54	30.00	-25.46
	5825	165	ax (20MHz)	26T	MCS0	3.80	30.00	-26.21
	5755	151	ax (40MHz)	26T	MCS0	5.18	30.00	-24.82
	5795	159	ax (40MHz)	26T	MCS0	4.98	30.00	-25.02
	5775	155	ax (80MHz)	26T	MCS0	6.76	30.00	-23.24

**Table 7-60. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)**

FCC ID: A3LSMG996U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2009140143-09.A3L	<b>Test Dates:</b> 09/15 - 12/01/2020	<b>EUT Type:</b> Portable Handset	Page 145 of 307	



Plot 7-184. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

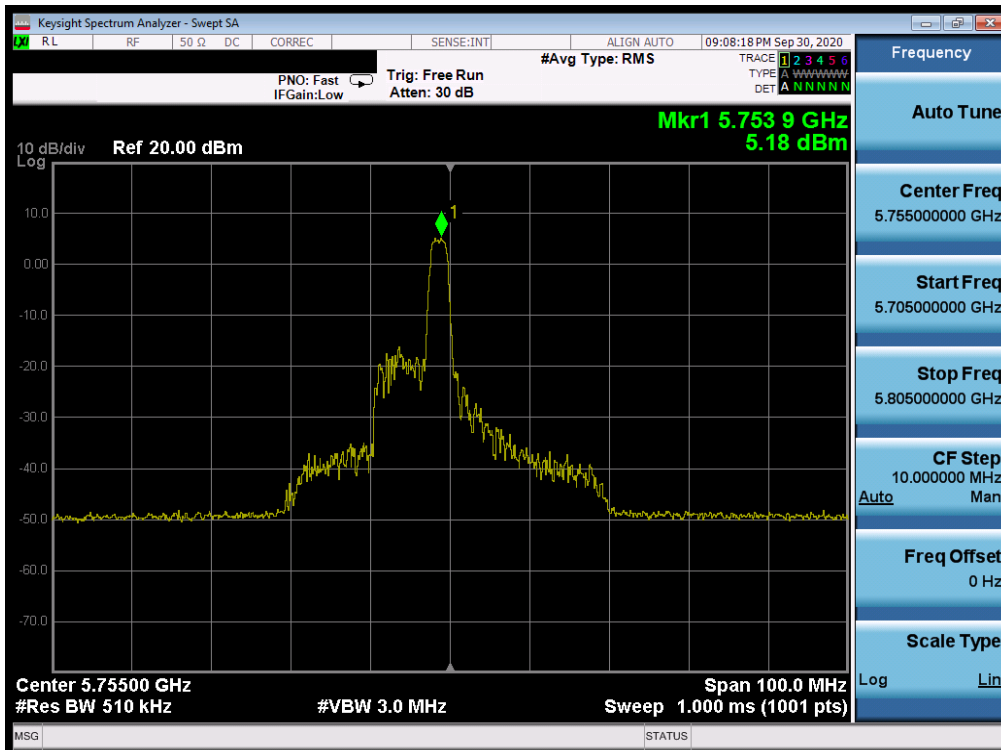


Plot 7-185. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 146 of 307

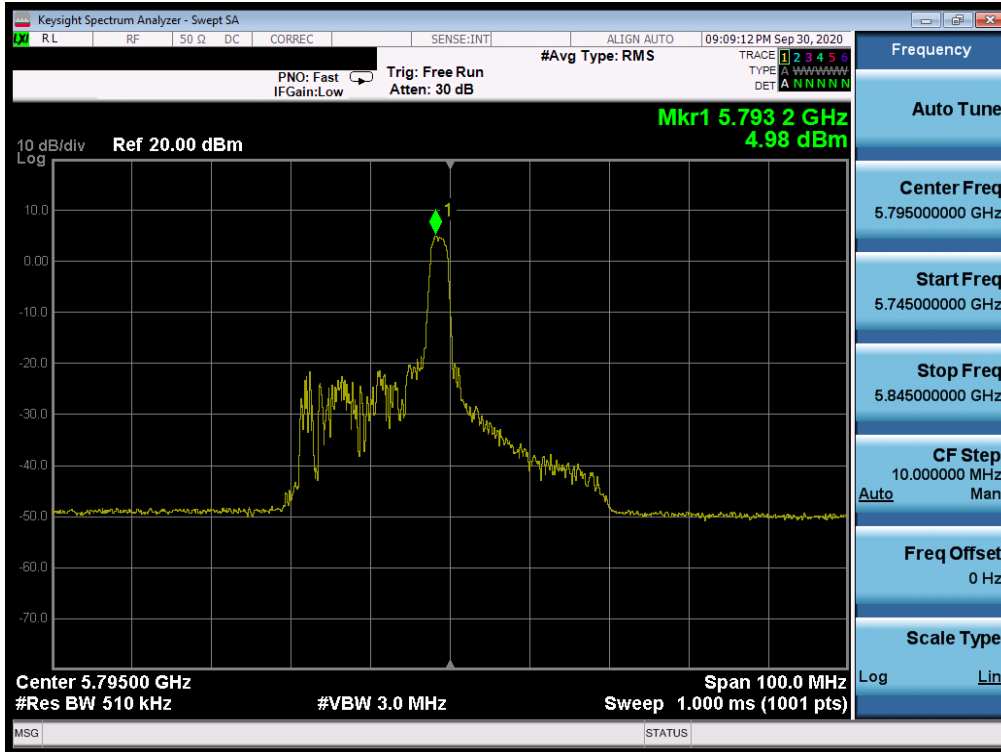


Plot 7-186. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

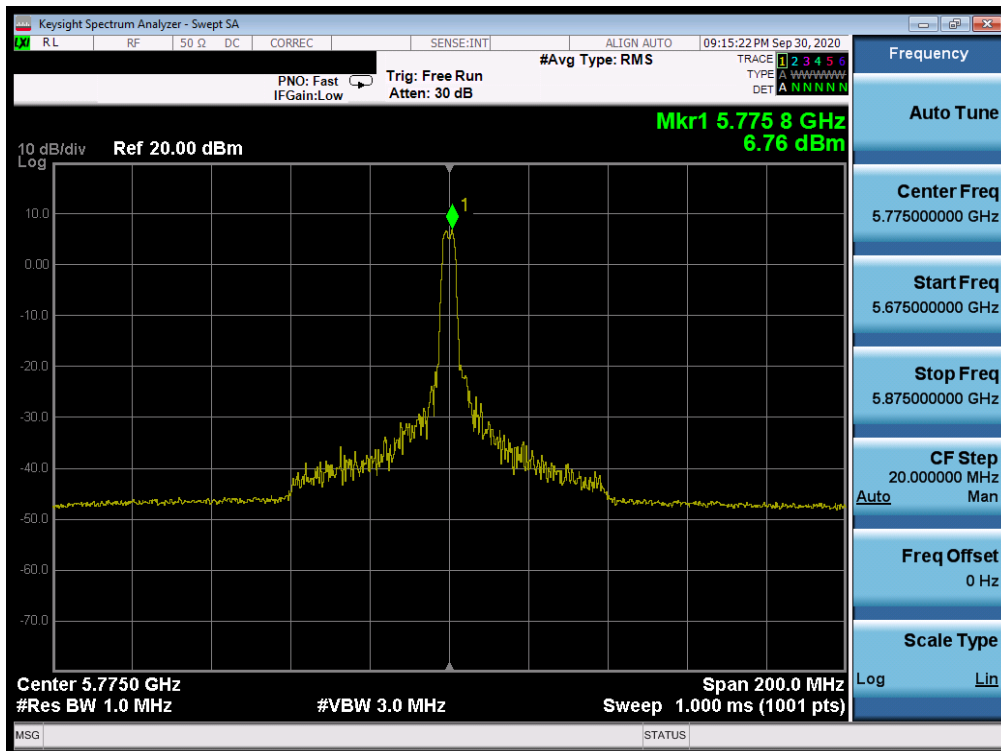


Plot 7-187. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 147 of 307



Plot 7-188. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-189. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 148 of 307

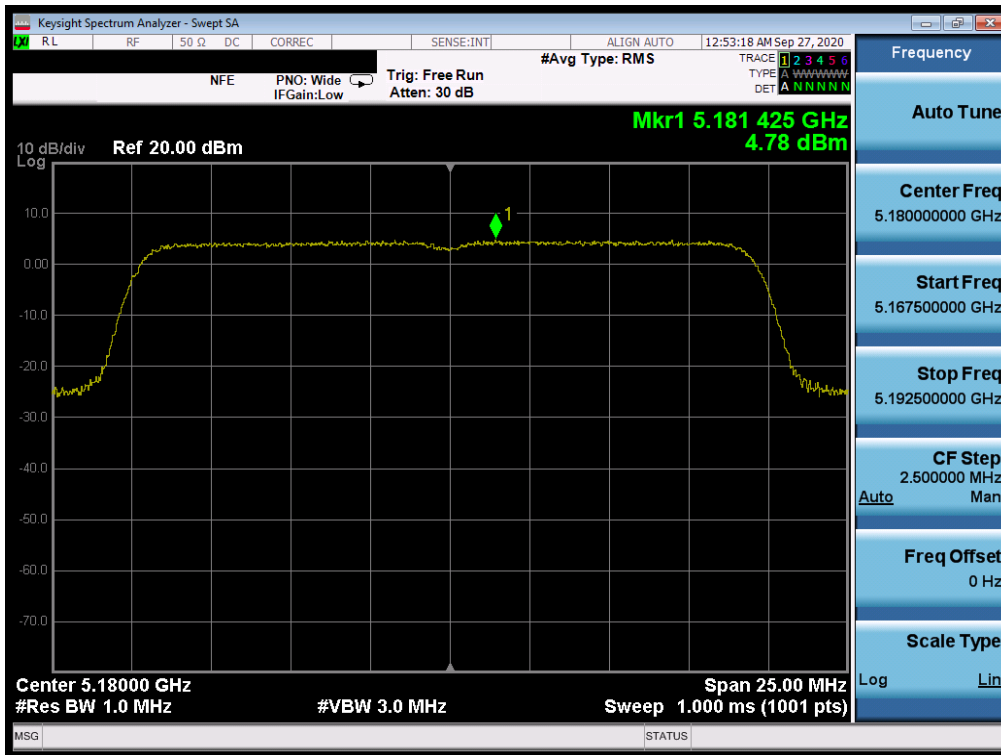


## SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

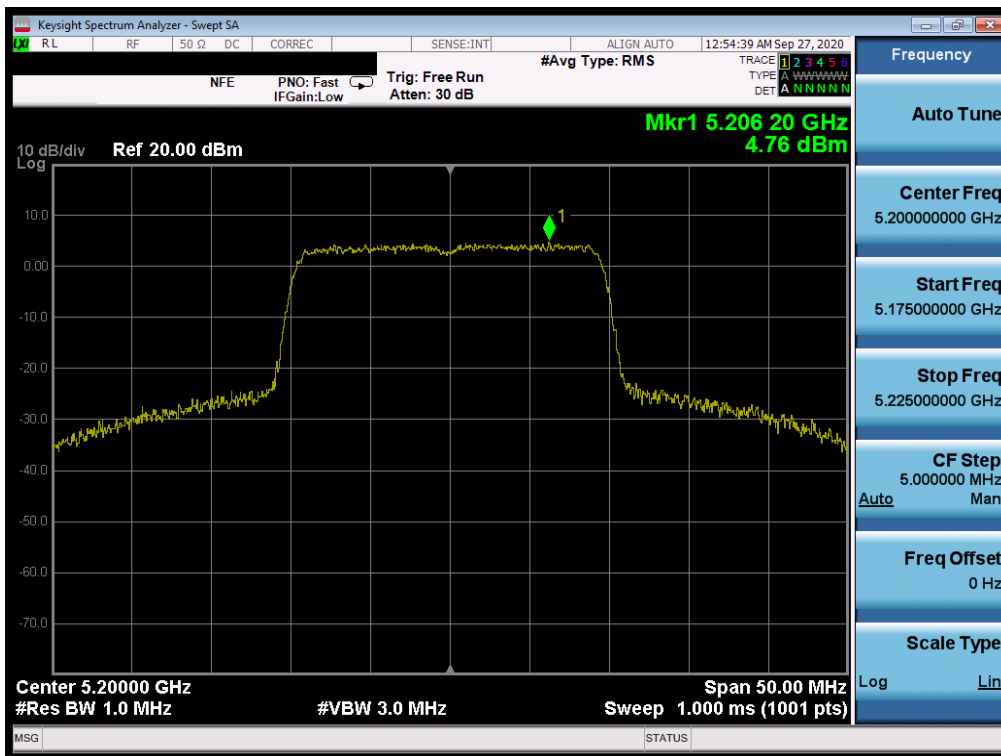
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	4.78	11.0	-6.22
	5200	40	ax (20MHz)	242T	MCS0	4.76	11.0	-6.24
	5240	48	ax (20MHz)	242T	MCS0	4.92	11.0	-6.08
	5190	38	ax (40MHz)	484T	MCS0	1.44	11.0	-9.56
	5230	46	ax (40MHz)	484T	MCS0	1.15	11.0	-9.85
	5210	42	ax (80MHz)	996T	MCS0	-3.01	11.0	-14.01
Band 2A	5260	52	ax (20MHz)	242T	MCS0	4.87	11.0	-6.13
	5280	56	ax (20MHz)	242T	MCS0	5.40	11.0	-5.60
	5320	64	ax (20MHz)	242T	MCS0	4.92	11.0	-6.08
	5270	54	ax (40MHz)	484T	MCS0	1.53	11.0	-9.47
	5310	62	ax (40MHz)	484T	MCS0	0.20	11.0	-10.80
	5290	58	ax (80MHz)	996T	MCS0	-2.98	11.0	-13.98
Band 2C	5500	100	ax (20MHz)	242T	MCS0	5.11	11.0	-5.89
	5600	120	ax (20MHz)	242T	MCS0	4.63	11.0	-6.37
	5720	144	ax (20MHz)	242T	MCS0	4.75	11.0	-6.25
	5510	102	ax (40MHz)	484T	MCS0	1.24	11.0	-9.76
	5590	118	ax (40MHz)	484T	MCS0	1.14	11.0	-9.86
	5710	142	ax (40MHz)	484T	MCS0	1.27	11.0	-9.73
	5530	106	ax (80MHz)	996T	MCS0	-3.41	11.0	-14.41
	5610	122	ax (80MHz)	996T	MCS0	-2.13	11.0	-13.13
	5690	138	ax (80MHz)	996T	MCS0	-4.03	11.0	-15.03

Table 7-61. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 149 of 307

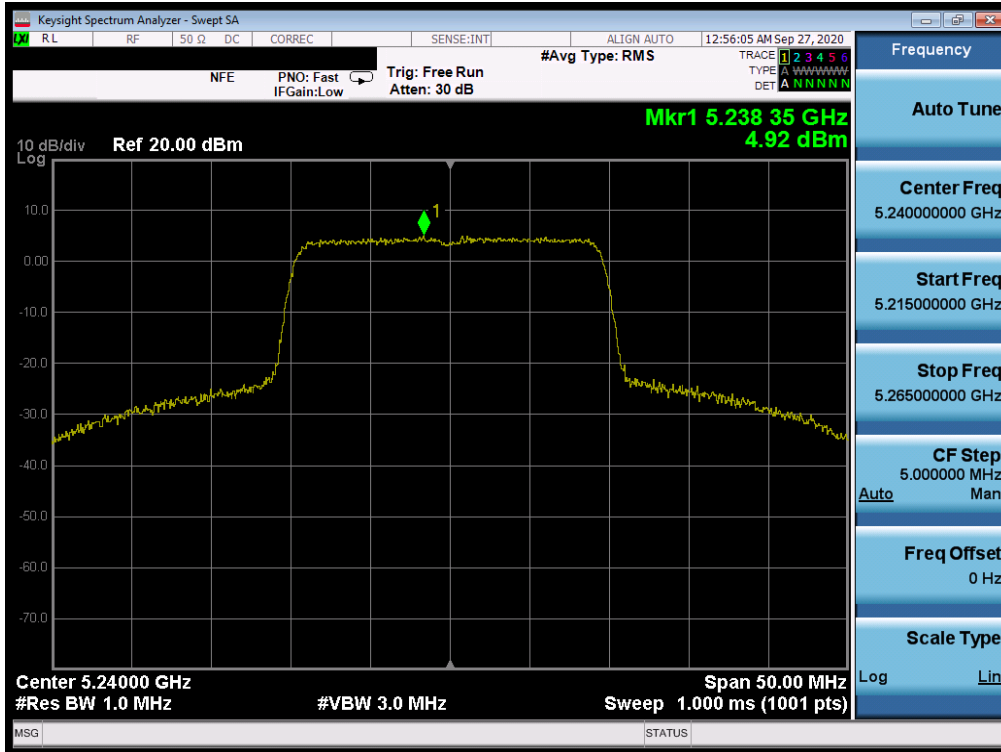


Plot 7-190. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

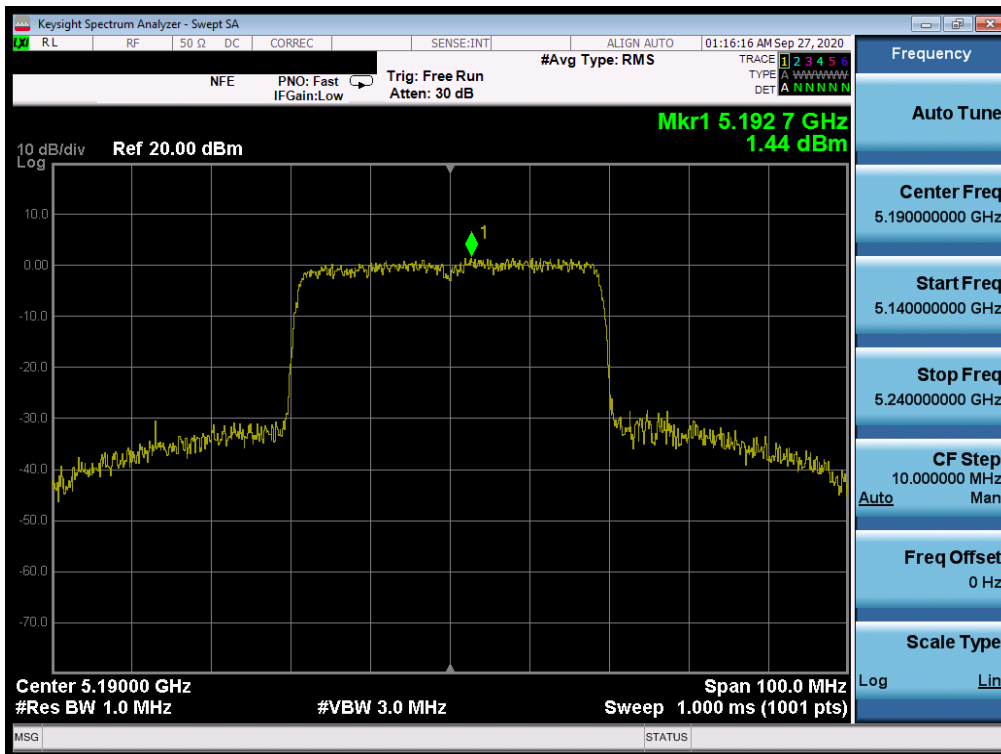


Plot 7-191. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG996U	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 150 of 307

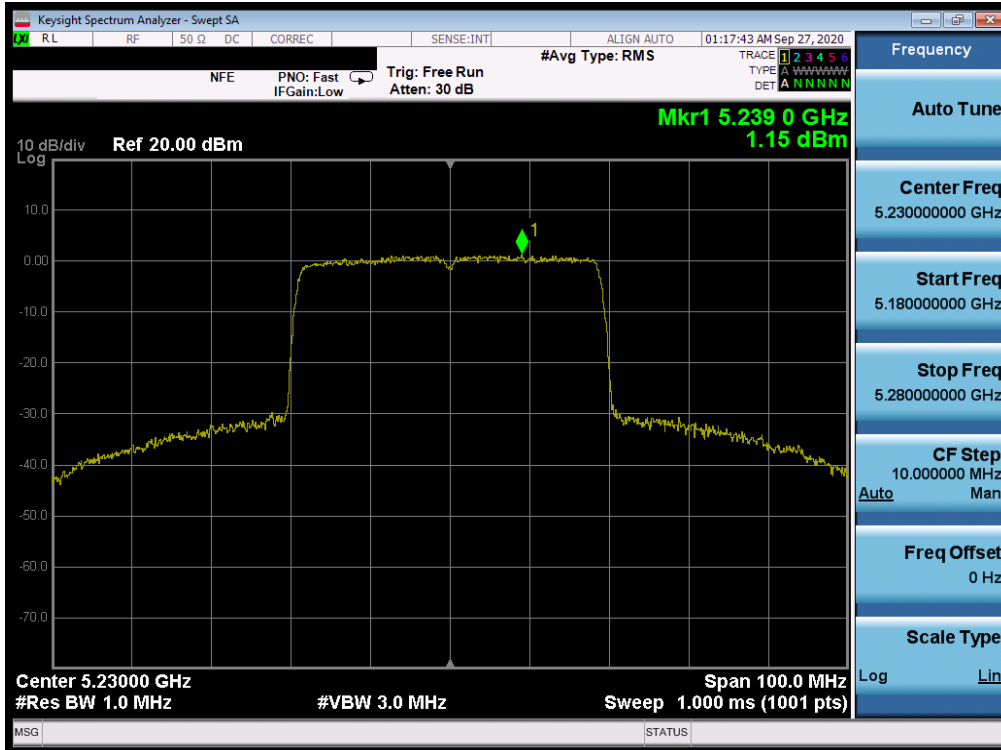


Plot 7-192. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

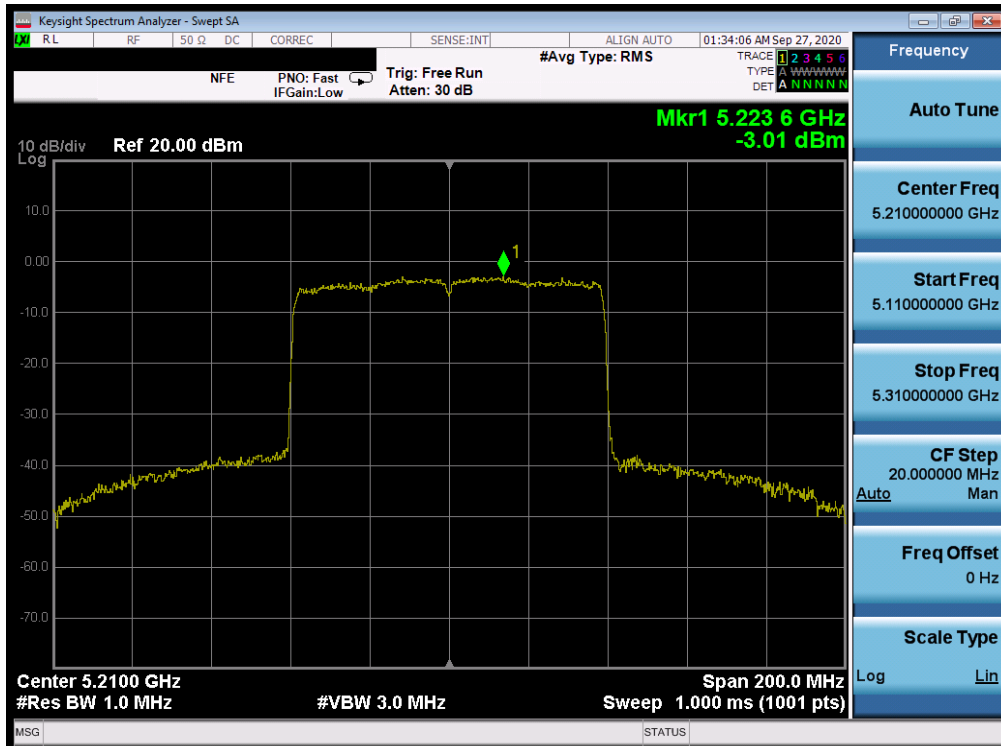


Plot 7-193. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 151 of 307

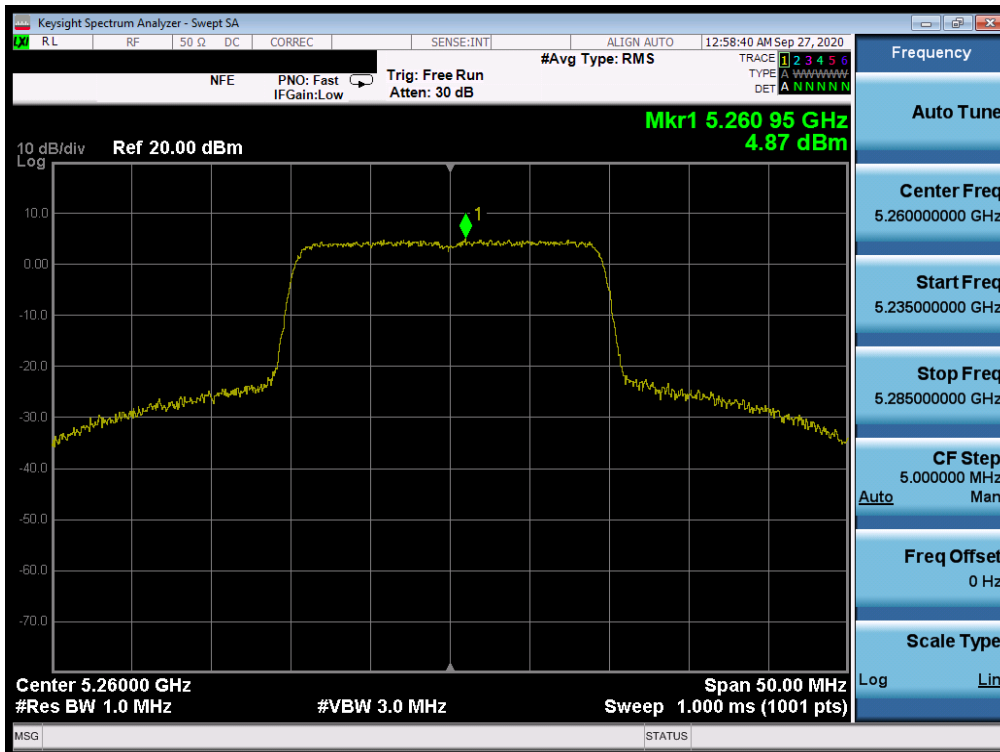


Plot 7-194. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

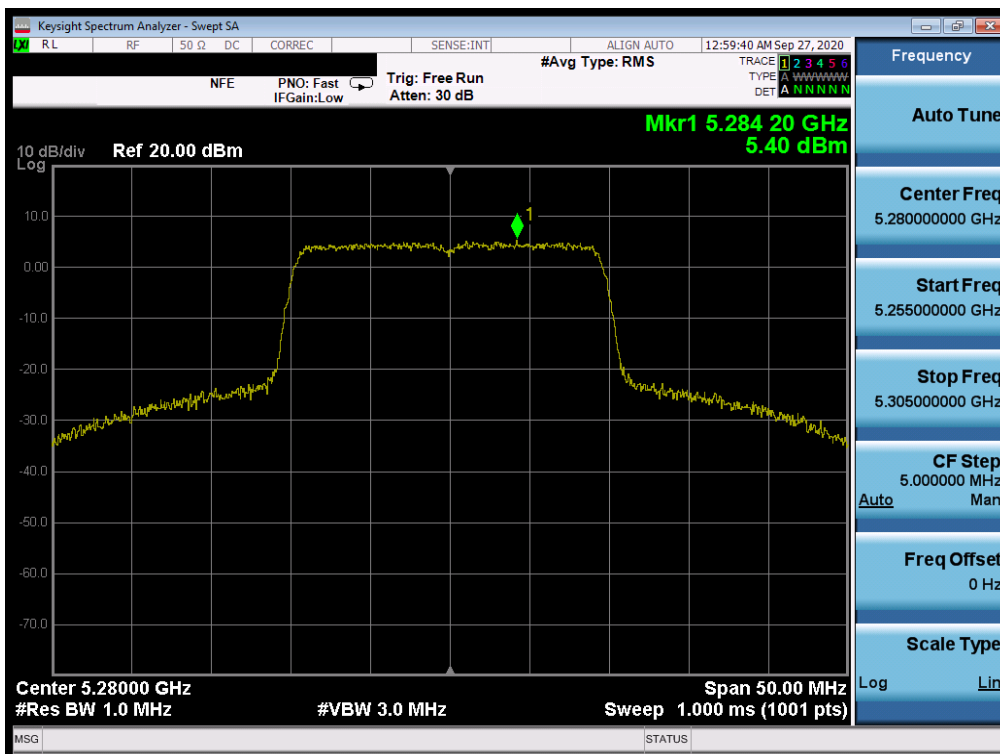


Plot 7-195. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 152 of 307

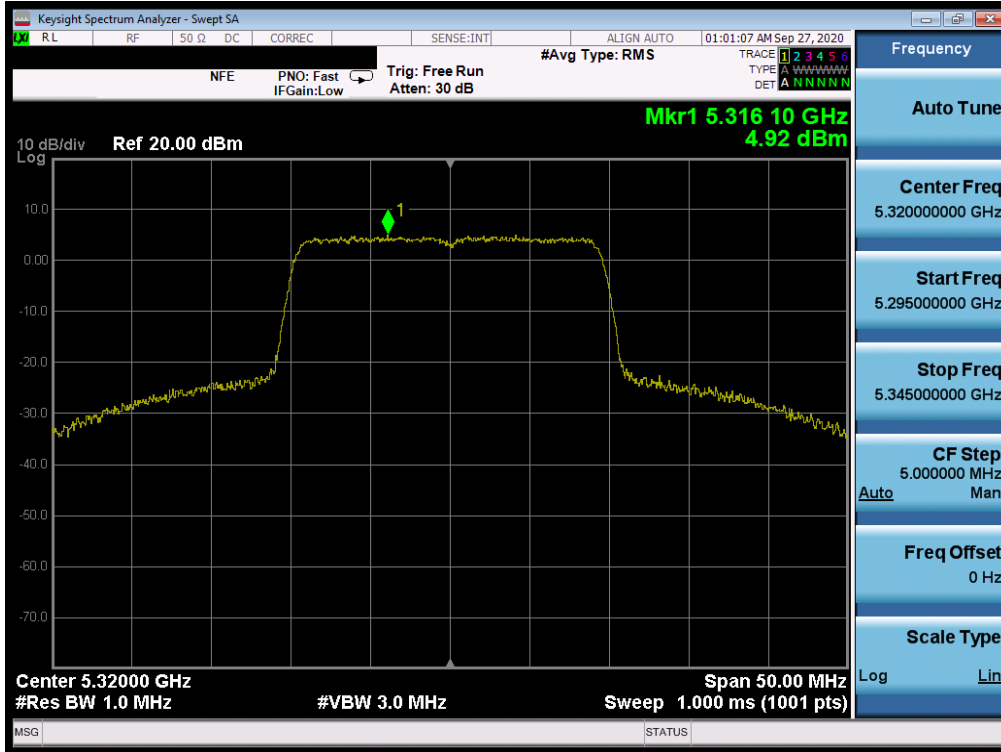


Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

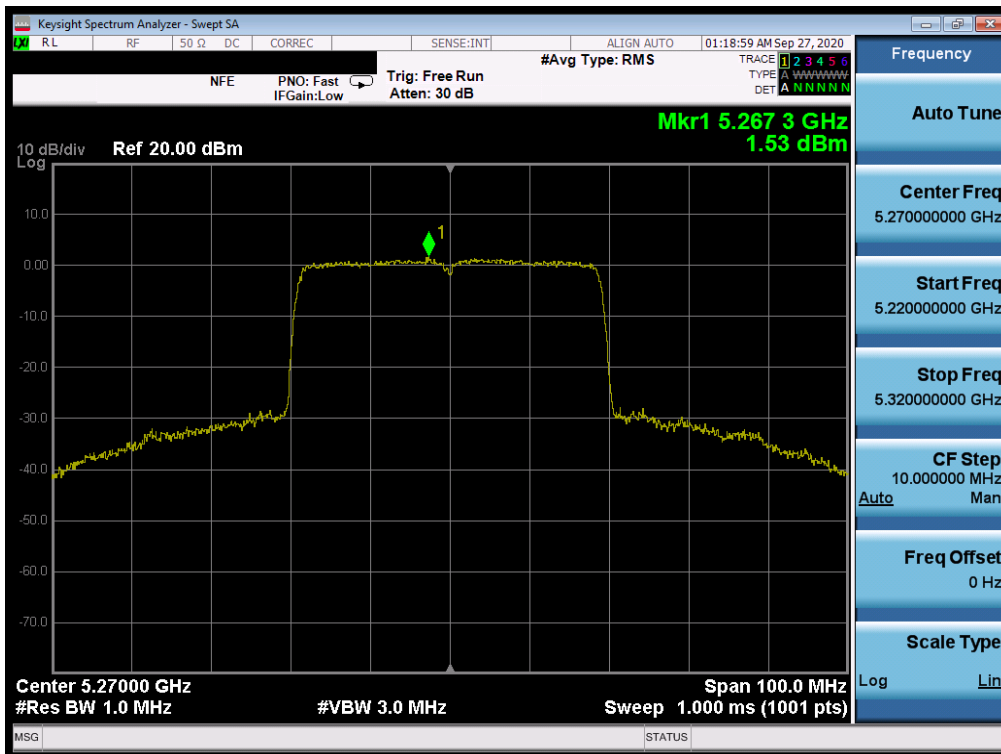


Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 153 of 307

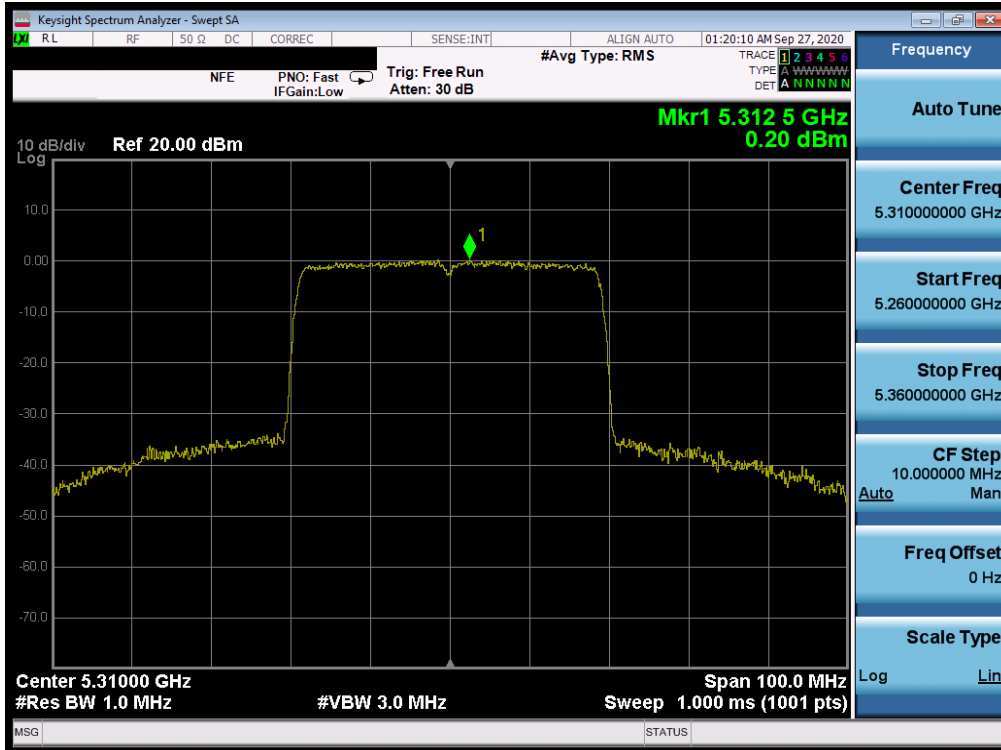


Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

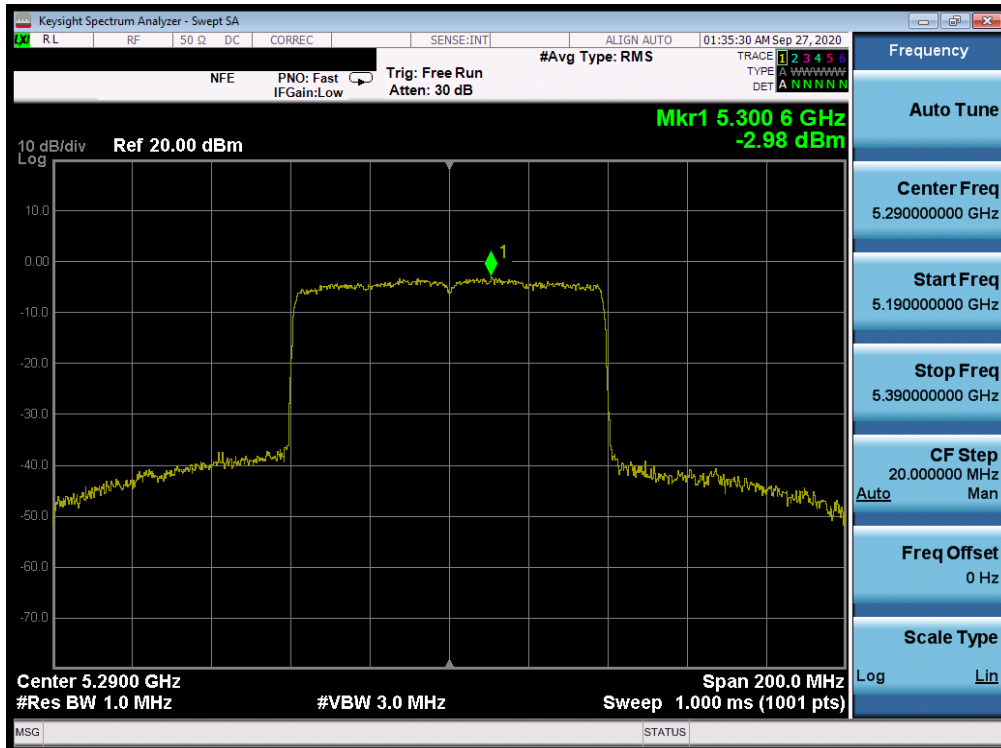


Plot 7-199. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 154 of 307

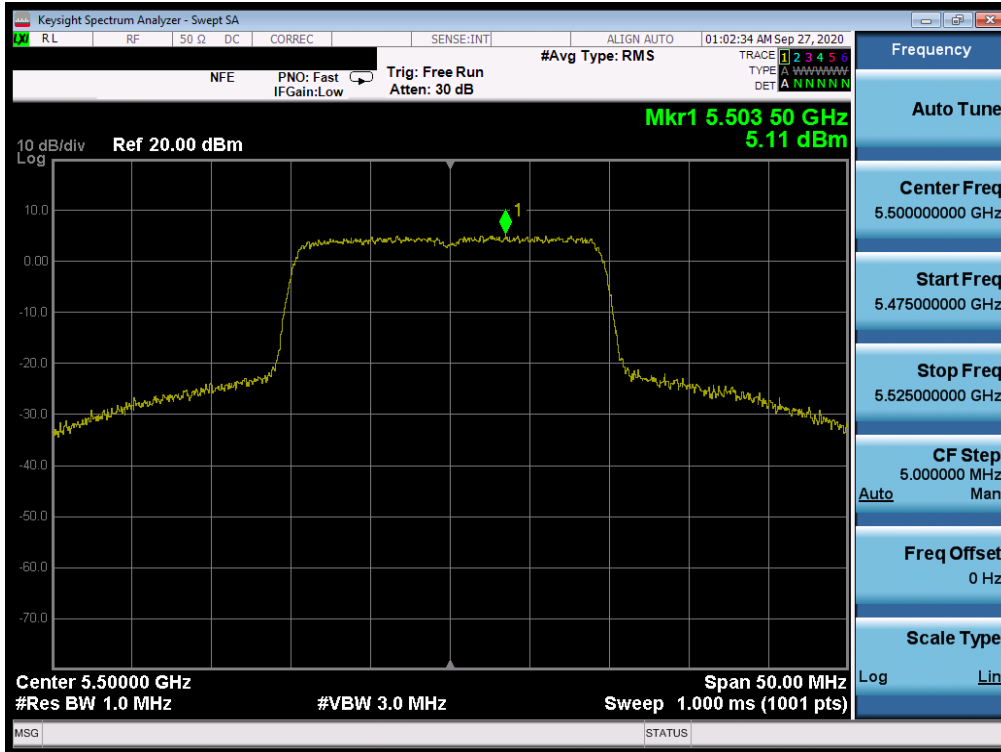


Plot 7-200. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

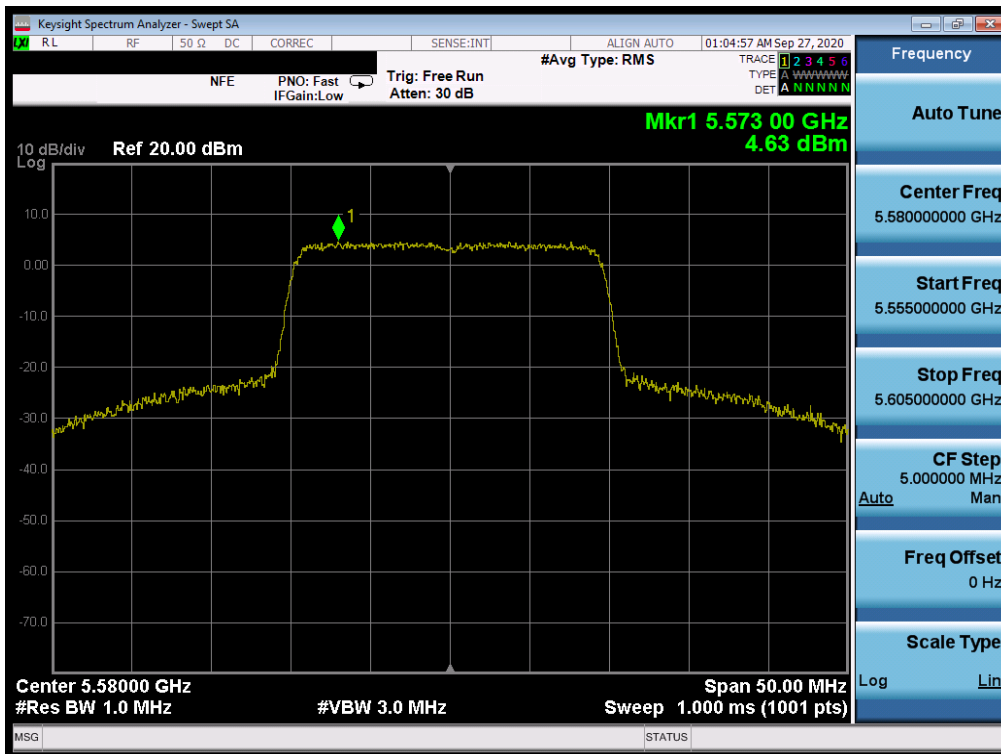


Plot 7-201. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 155 of 307



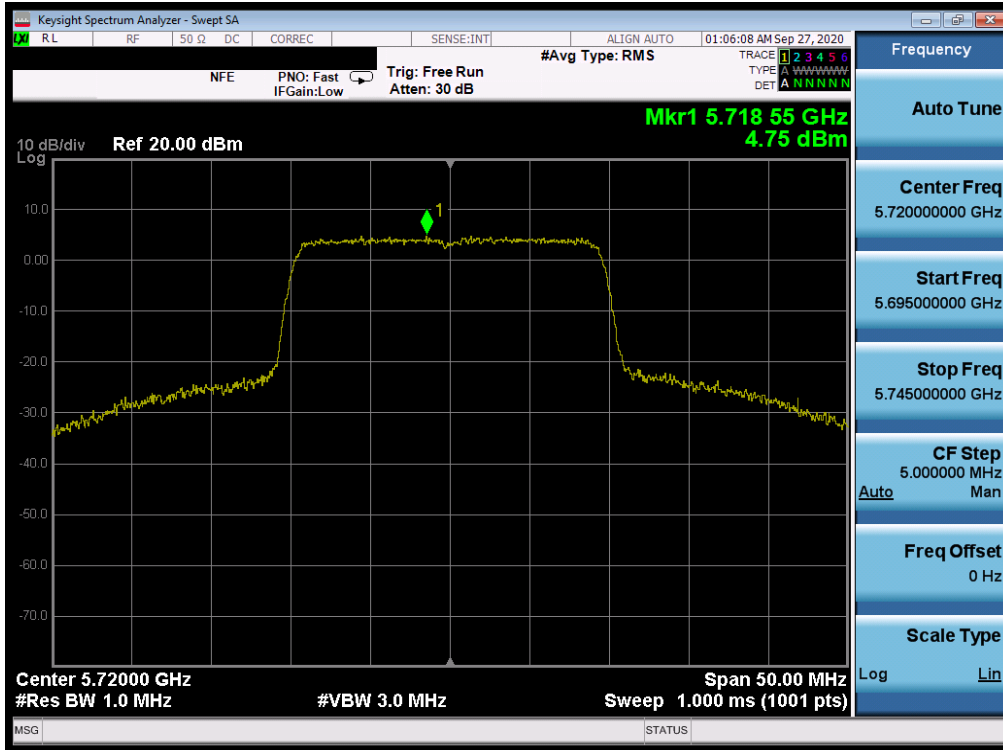
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)



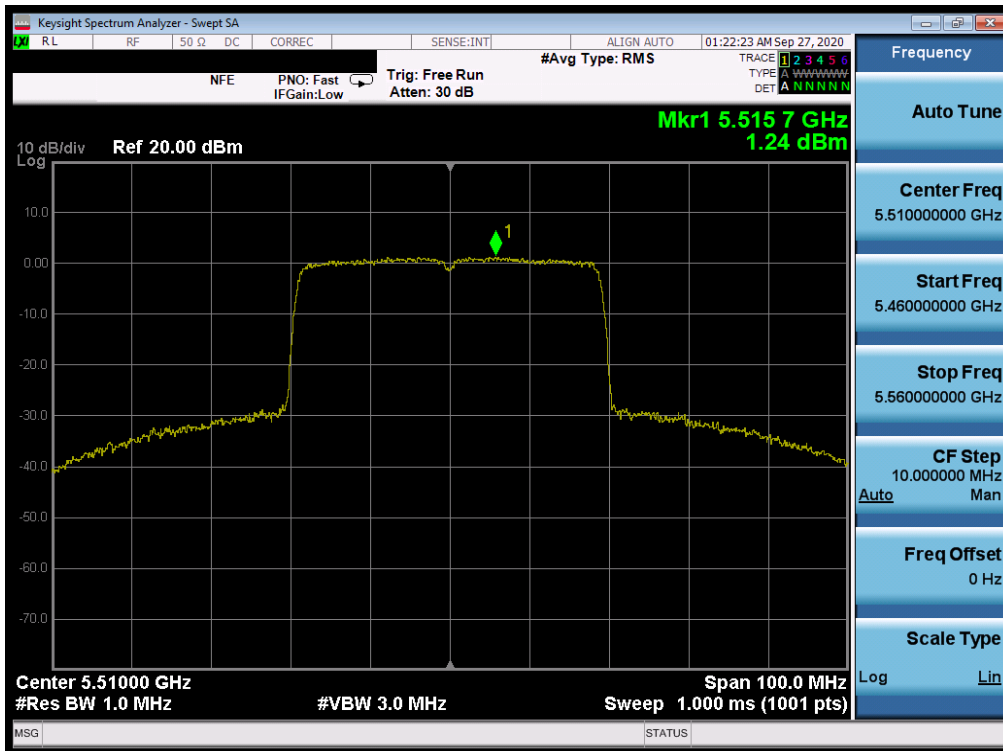
Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 156 of 307



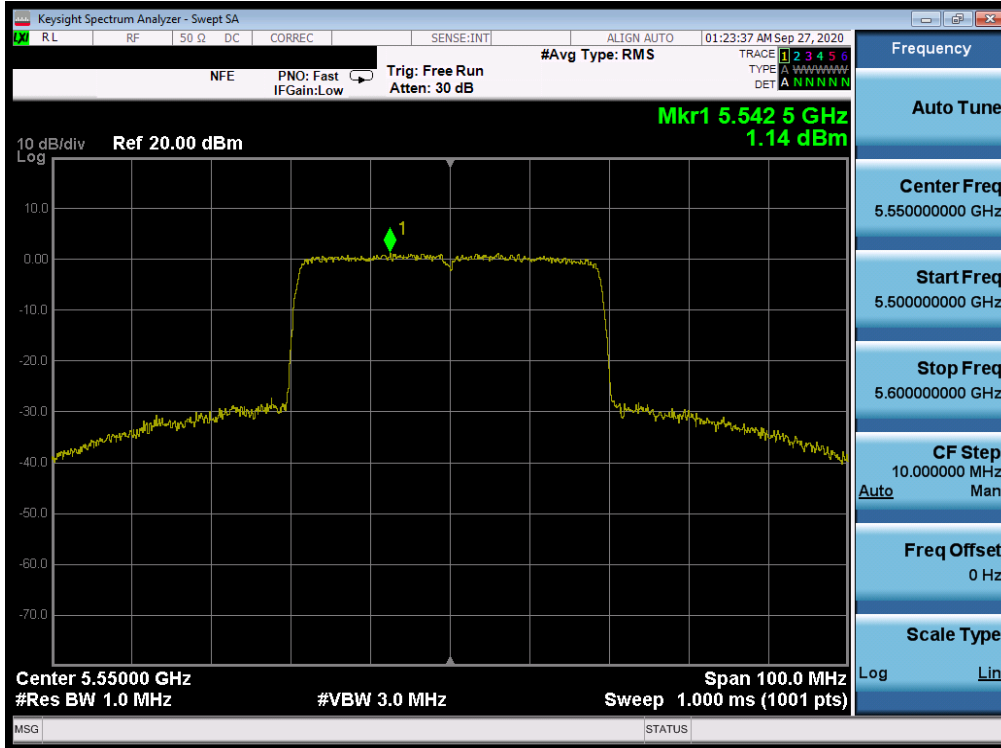


Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

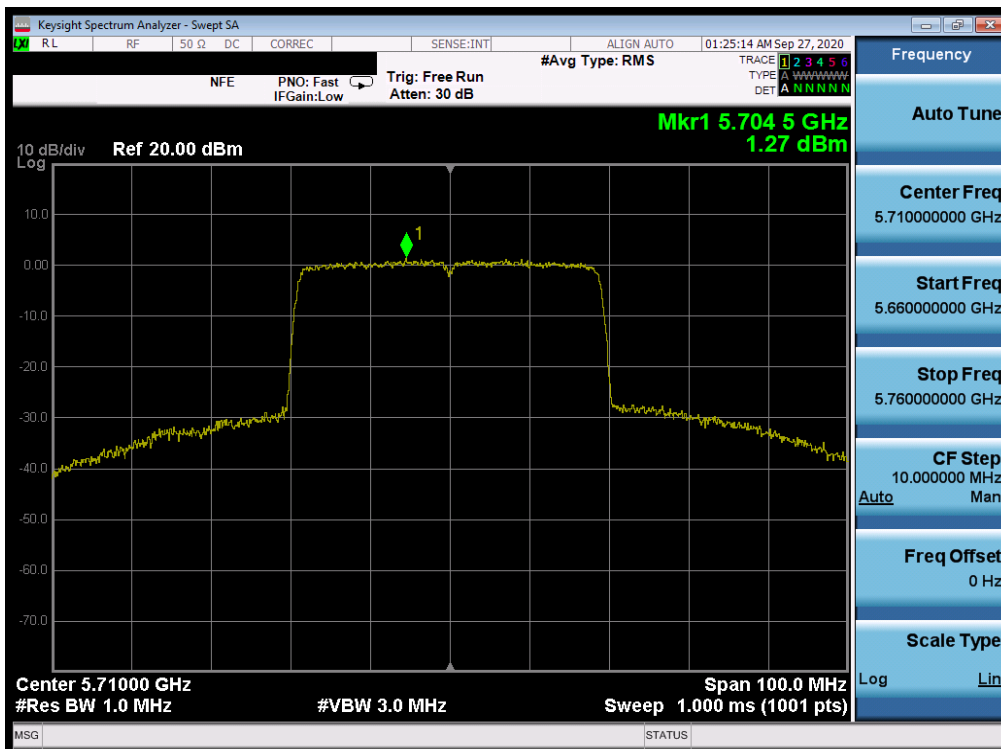


Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 157 of 307

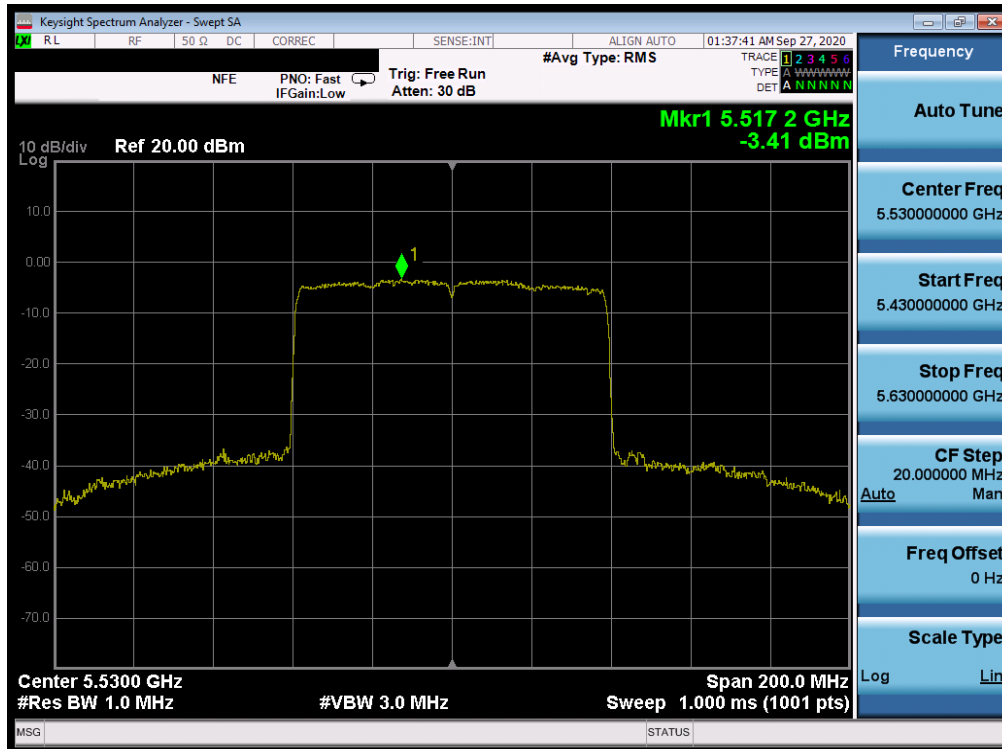


Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

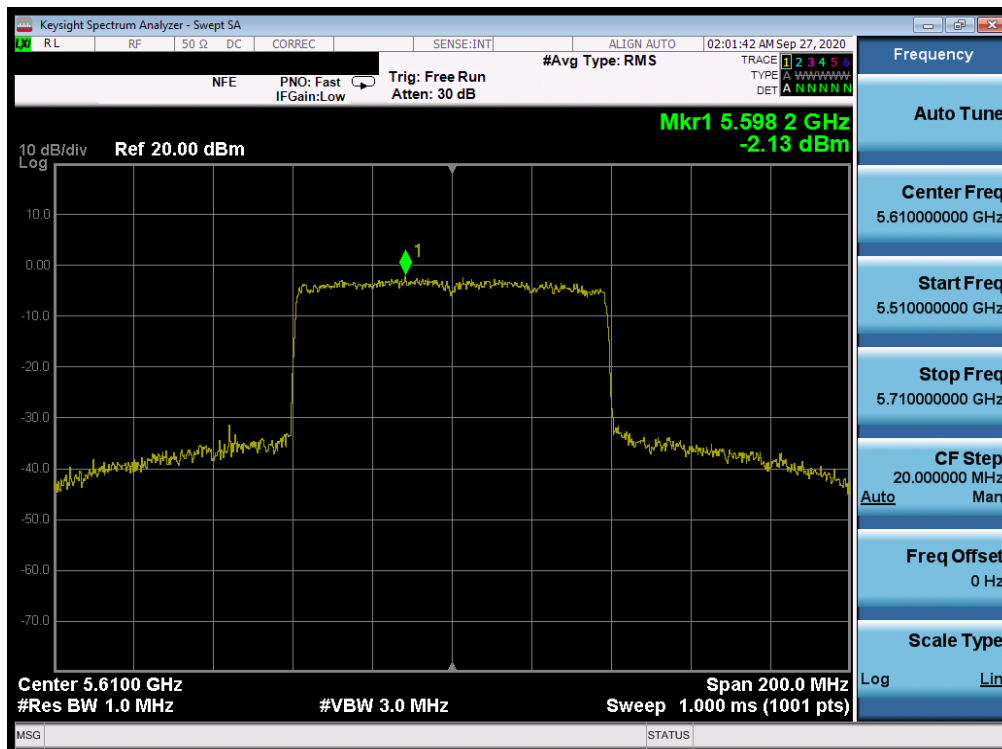


Plot 7-207. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG996U	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 158 of 307

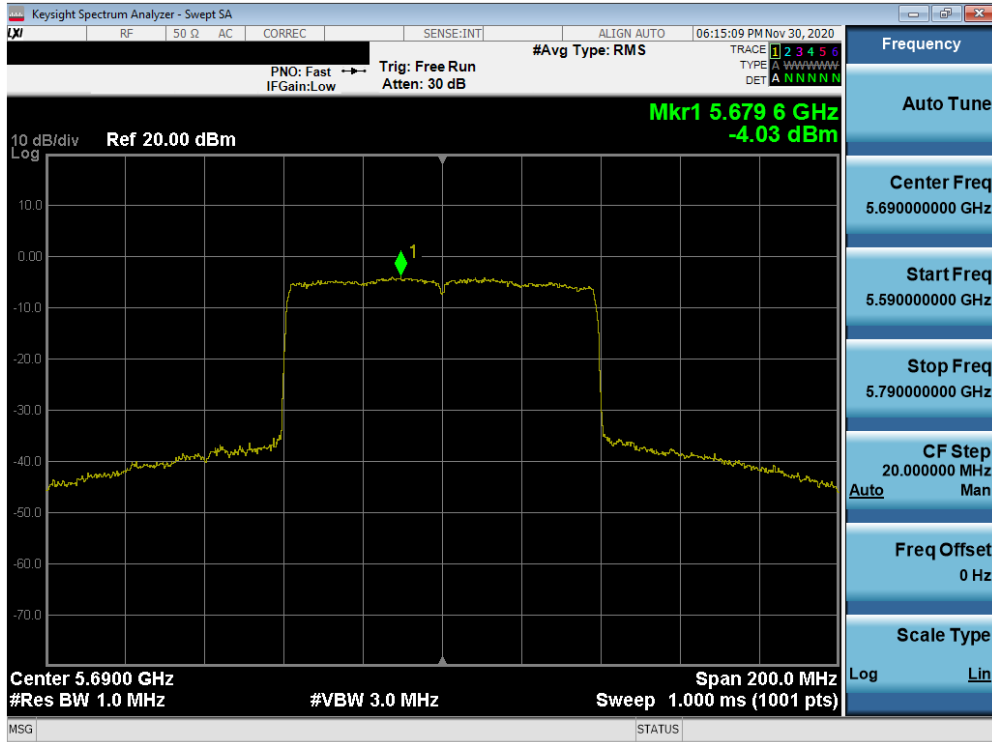


Plot 7-208. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset	Page 159 of 307	



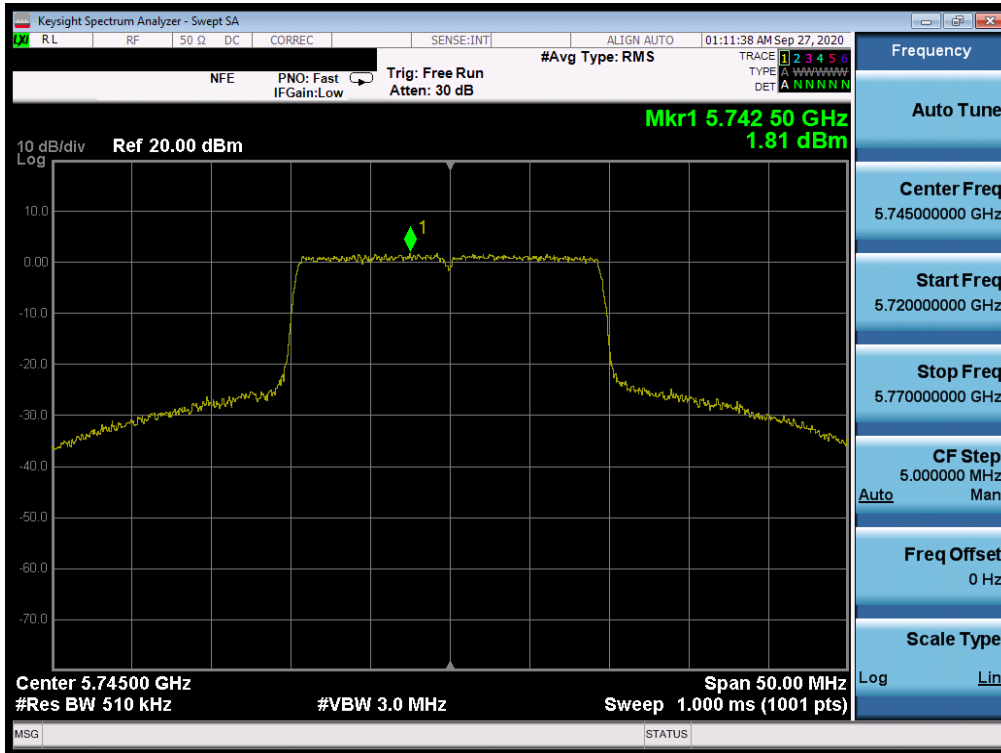
Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 160 of 307

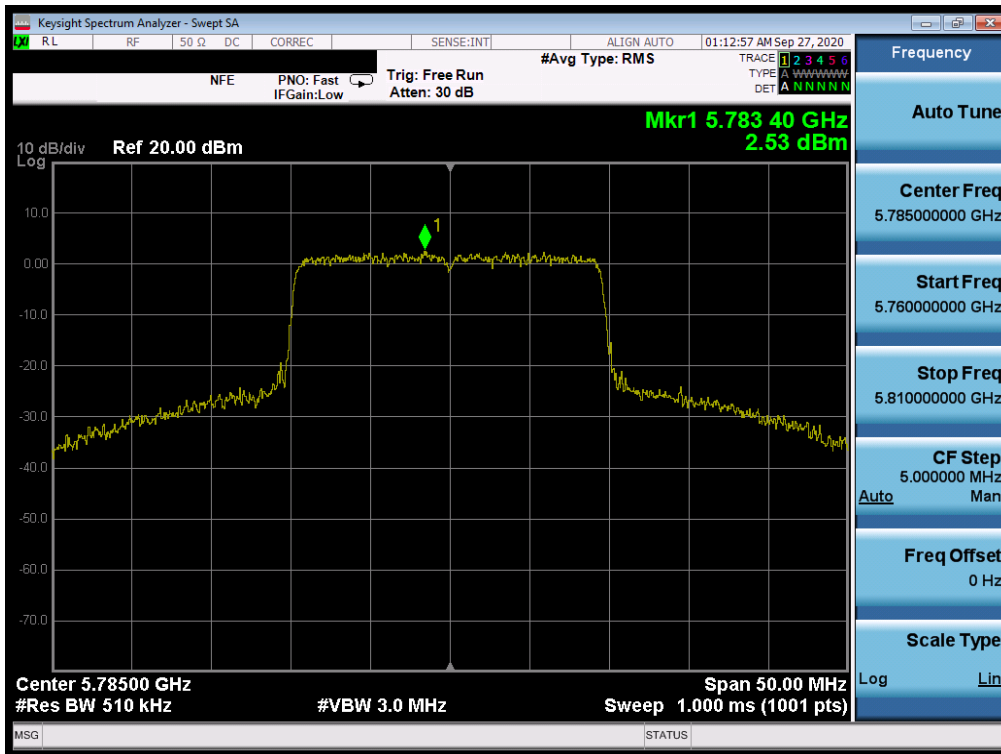
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	ax (20MHz)	242T	MCS0	1.81	30.00	-28.19
	5785	157	ax (20MHz)	242T	MCS0	2.53	30.00	-27.47
	5825	165	ax (20MHz)	242T	MCS0	2.12	30.00	-27.88
	5755	151	ax (40MHz)	484T	MCS0	-2.32	30.00	-32.32
	5795	159	ax (40MHz)	484T	MCS0	-2.52	30.00	-32.52
	5775	155	ax (80MHz)	996T	MCS0	-6.12	30.00	-36.12

**Table 7-62. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)**

FCC ID: A3LSMG996U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2009140143-09.A3L	<b>Test Dates:</b> 09/15 - 12/01/2020	<b>EUT Type:</b> Portable Handset			Page 161 of 307

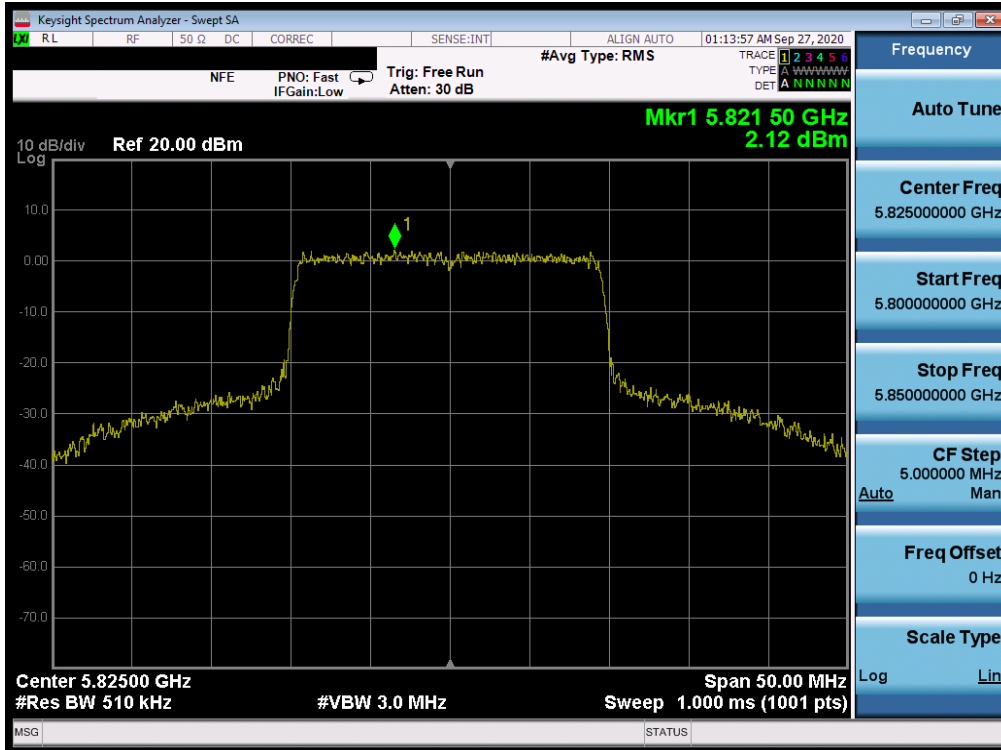


Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

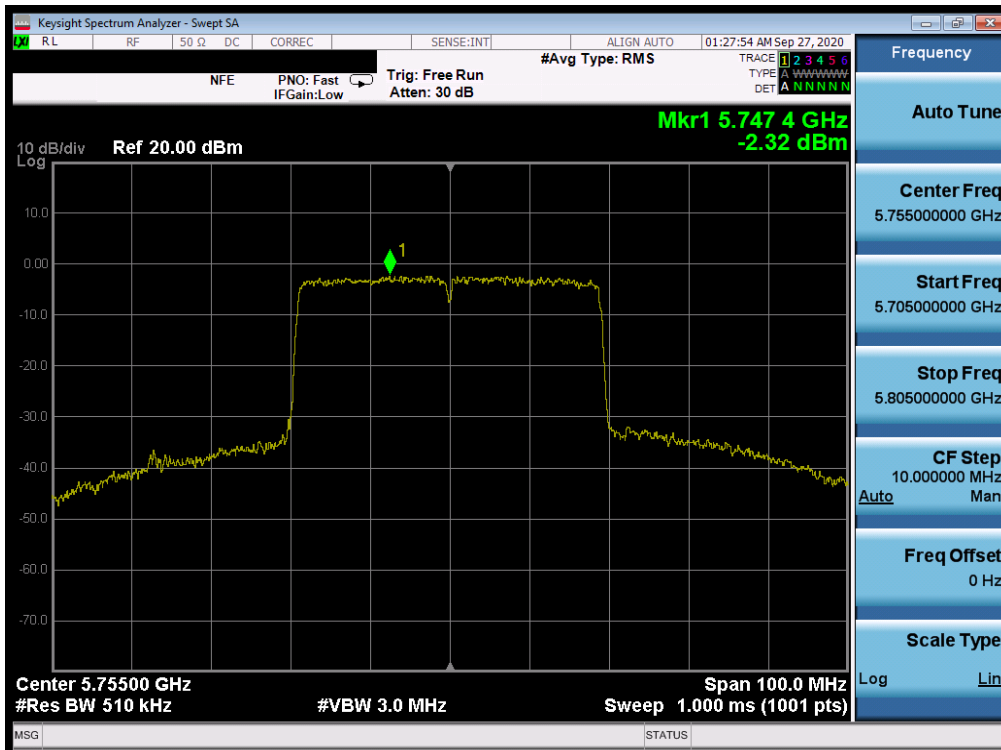


Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 162 of 307

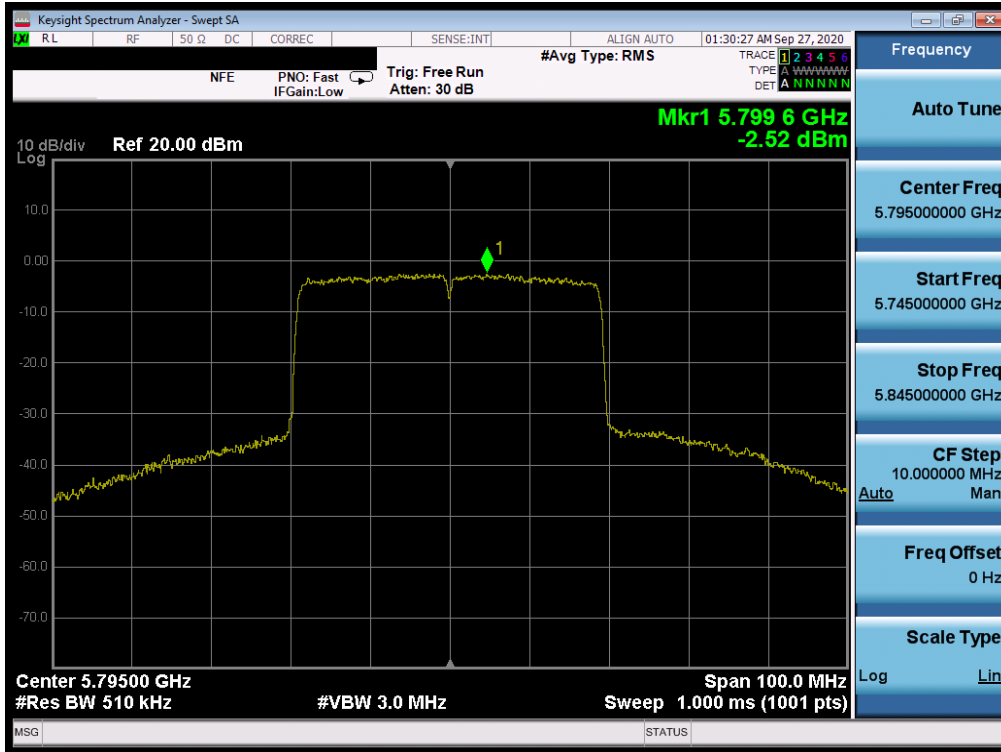


Plot 7-213. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

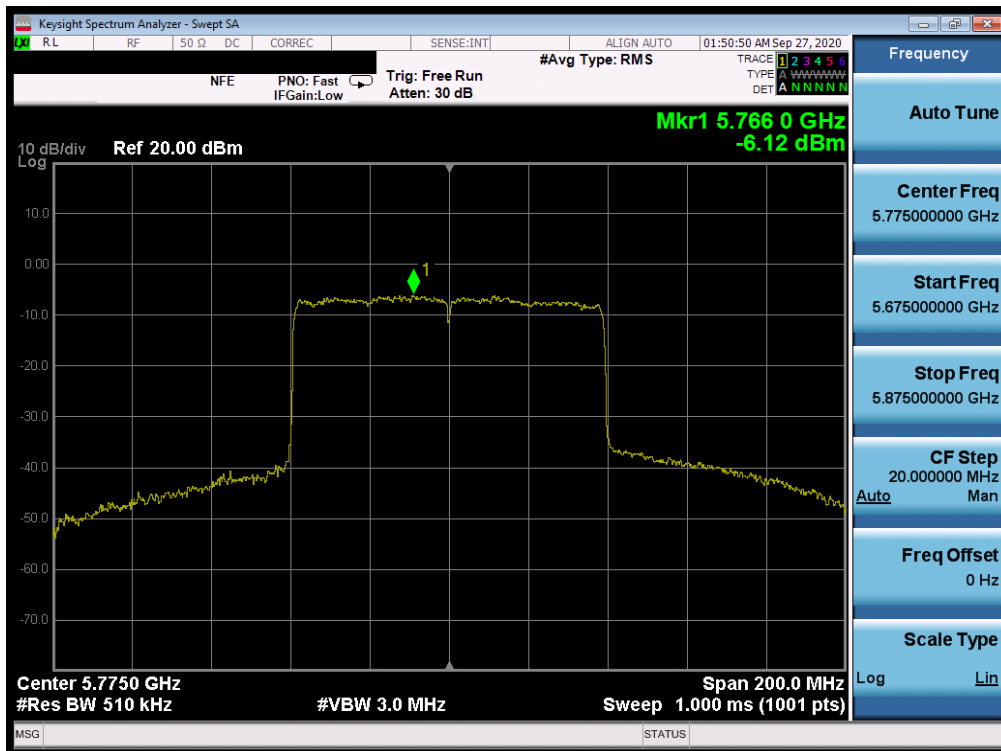


Plot 7-214. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 163 of 307



Plot 7-215. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-216. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 164 of 307



## Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.31	4.14	7.78	11.00	-3.22
	5200	40	ax (20MHz)	26T	MCS0	3.67	2.44	6.11	11.00	-4.89
	5240	48	ax (20MHz)	26T	MCS0	3.61	2.59	6.14	11.00	-4.86
	5190	38	ax (40MHz)	26T	MCS0	5.21	4.02	7.67	11.00	-3.33
	5230	46	ax (40MHz)	26T	MCS0	5.01	4.14	7.61	11.00	-3.39
	5210	42	ax (80MHz)	26T	MCS0	4.34	3.06	6.76	11.00	-4.24
Band 2A	5260	52	ax (20MHz)	26T	MCS0	3.40	2.60	6.03	11.00	-4.97
	5280	56	ax (20MHz)	26T	MCS0	5.95	4.15	8.15	11.00	-2.85
	5320	64	ax (20MHz)	26T	MCS0	3.74	2.45	6.16	11.00	-4.84
	5270	54	ax (40MHz)	26T	MCS0	5.15	4.02	7.63	11.00	-3.37
	5310	62	ax (40MHz)	26T	MCS0	5.17	4.05	7.66	11.00	-3.34
	5290	58	ax (80MHz)	26T	MCS0	4.95	3.19	7.17	11.00	-3.83
Band 2C	5500	100	ax (20MHz)	26T	MCS0	3.44	2.89	6.18	11.00	-4.82
	5600	120	ax (20MHz)	26T	MCS0	4.14	2.61	6.45	11.00	-4.55
	5720	144	ax (20MHz)	26T	MCS0	4.01	2.64	6.39	11.00	-4.61
	5510	102	ax (40MHz)	26T	MCS0	5.71	4.46	8.14	11.00	-2.86
	5590	118	ax (40MHz)	26T	MCS0	5.31	4.16	7.78	11.00	-3.22
	5710	142	ax (40MHz)	26T	MCS0	5.67	4.16	7.99	11.00	-3.01
	5530	106	ax (80MHz)	26T	MCS0	5.08	3.67	7.44	11.00	-3.56
	5610	122	ax (80MHz)	26T	MCS0	5.06	3.95	7.55	11.00	-3.45
5690	138	ax (80MHz)	26T	MCS0	3.12	0.62	5.06	11.00	-5.94	

Table 7-63. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	1.59	1.33	4.47	30.00	-25.53
	5785	157	ax (20MHz)	26T	MCS0	1.57	1.38	4.49	30.00	-25.51
	5825	165	ax (20MHz)	26T	MCS0	1.87	1.61	4.75	30.00	-25.25
	5755	151	ax (40MHz)	26T	MCS0	1.92	1.83	4.89	30.00	-25.11
	5795	159	ax (40MHz)	26T	MCS0	2.28	1.70	5.01	30.00	-24.99
	5775	155	ax (80MHz)	26T	MCS0	4.80	5.23	8.03	30.00	-21.97

Table 7-64. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 165 of 307

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.33	2.44	5.92	11.00	-5.08
	5200	40	ax (20MHz)	242T	MCS0	3.35	2.47	5.94	11.00	-5.06
	5240	48	ax (20MHz)	242T	MCS0	3.14	2.37	5.78	11.00	-5.22
	5190	38	ax (40MHz)	484T	MCS0	-0.79	-1.77	1.76	11.00	-9.24
	5230	46	ax (40MHz)	484T	MCS0	-0.73	-1.52	1.90	11.00	-9.10
	5210	42	ax (80MHz)	996T	MCS0	-3.71	-4.89	-1.25	11.00	-12.25
Band 2A	5260	52	ax (20MHz)	242T	MCS0	3.12	2.36	5.77	11.00	-5.23
	5280	56	ax (20MHz)	242T	MCS0	3.15	2.38	5.79	11.00	-5.21
	5320	64	ax (20MHz)	242T	MCS0	3.23	2.58	5.93	11.00	-5.07
	5270	54	ax (40MHz)	484T	MCS0	-0.76	-1.54	1.88	11.00	-9.12
	5310	62	ax (40MHz)	484T	MCS0	-0.83	-1.64	1.79	11.00	-9.21
	5290	58	ax (80MHz)	996T	MCS0	-3.74	-5.12	-1.37	11.00	-12.37
Band 2C	5500	100	ax (20MHz)	242T	MCS0	3.16	2.85	6.02	11.00	-4.98
	5600	120	ax (20MHz)	242T	MCS0	3.37	2.80	6.10	11.00	-4.90
	5720	144	ax (20MHz)	242T	MCS0	3.24	2.66	5.97	11.00	-5.03
	5510	102	ax (40MHz)	484T	MCS0	-0.77	-1.06	2.10	11.00	-8.90
	5590	118	ax (40MHz)	484T	MCS0	-0.75	-1.71	1.81	11.00	-9.19
	5710	142	ax (40MHz)	484T	MCS0	0.25	-0.60	2.86	11.00	-8.14
	5530	106	ax (80MHz)	996T	MCS0	-4.40	-4.80	-1.59	11.00	-12.59
	5610	122	ax (80MHz)	996T	MCS0	-4.82	-4.94	-1.87	11.00	-12.87
5690	138	ax (80MHz)	996T	MCS0	-6.73	-6.84	-3.77	11.00	-14.77	

Table 7-65. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	-0.21	-0.13	2.84	30.00	-27.16
	5785	157	ax (20MHz)	242T	MCS0	-0.09	-0.39	2.77	30.00	-27.23
	5825	165	ax (20MHz)	242T	MCS0	-0.19	-0.07	2.88	30.00	-27.12
	5755	151	ax (40MHz)	484T	MCS0	-3.14	-2.86	0.01	30.00	-29.99
	5795	159	ax (40MHz)	484T	MCS0	-3.22	-3.13	-0.16	30.00	-30.16
	5775	155	ax (80MHz)	996T	MCS0	-4.35	-4.26	-1.29	30.00	-31.29

Table 7-66. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 166 of 307

**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 with reduced Antenna 1 and Antenna 2 powers per manufacture’s tune-up document. The measured values were then summed in linear power units then converted back to dBm.

**Sample Directional Gain Calculation:**

Assuming the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

$$\begin{aligned} \text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] \text{ dBi} \\ &= (-5.12) \text{ dBi} \end{aligned}$$

**Sample MIMO Calculation:**

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

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

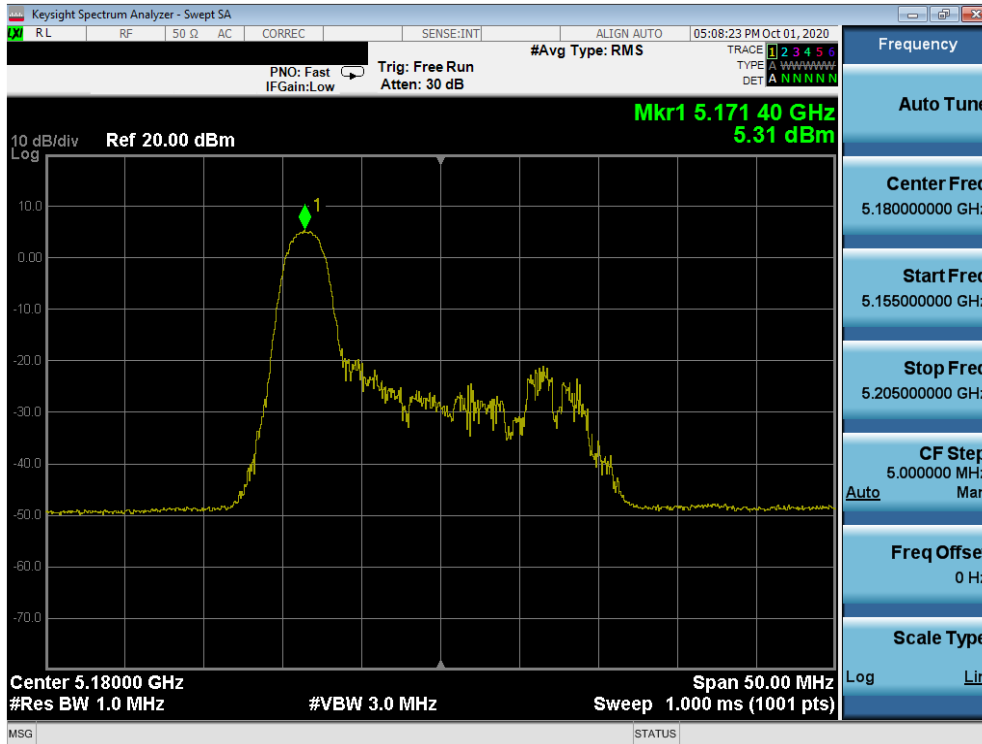
Assuming the average MIMO power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

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

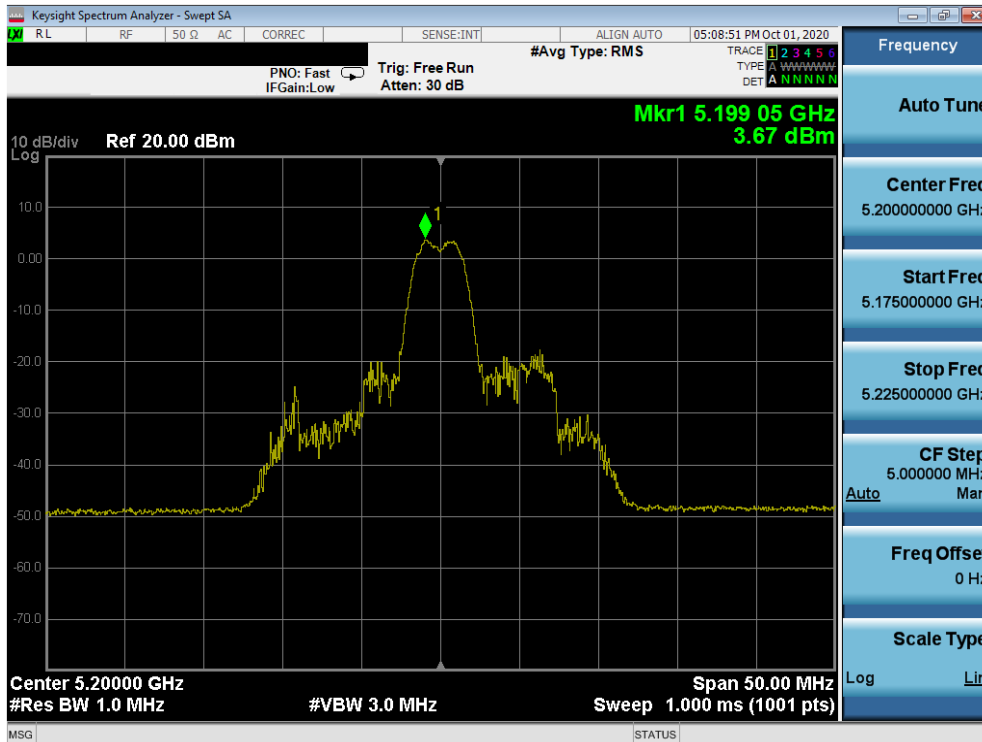
$$9.09 \text{ dBm} + (-5.12) \text{ dBi} = 3.97 \text{ dBm}$$

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset	Page 167 of 307	

## MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)

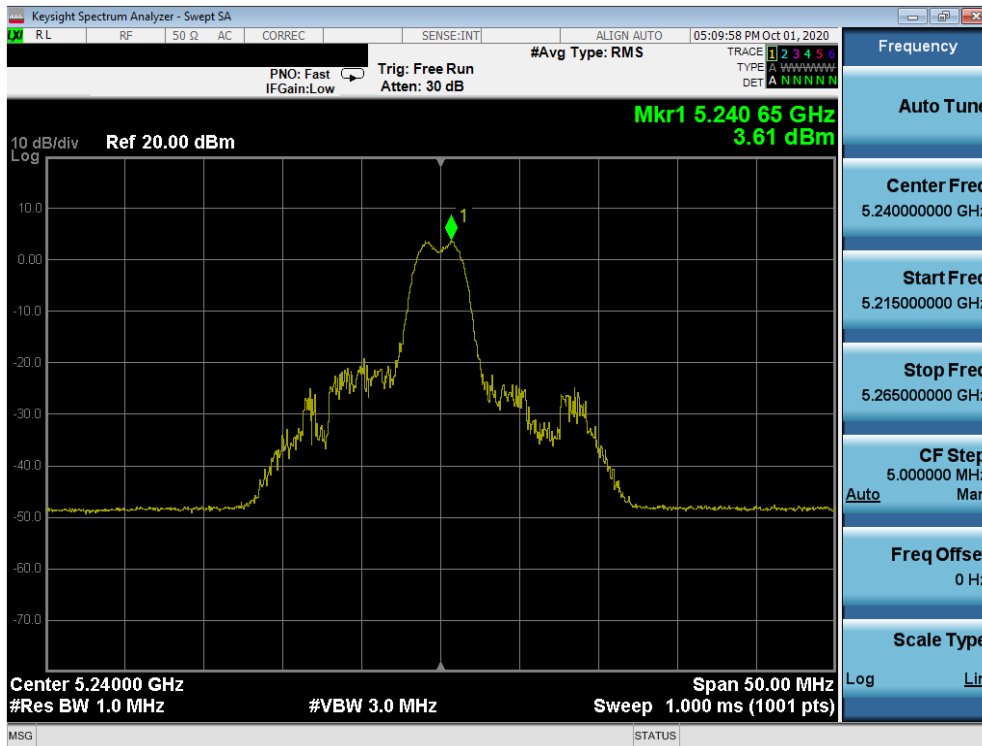


Plot 7-217. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

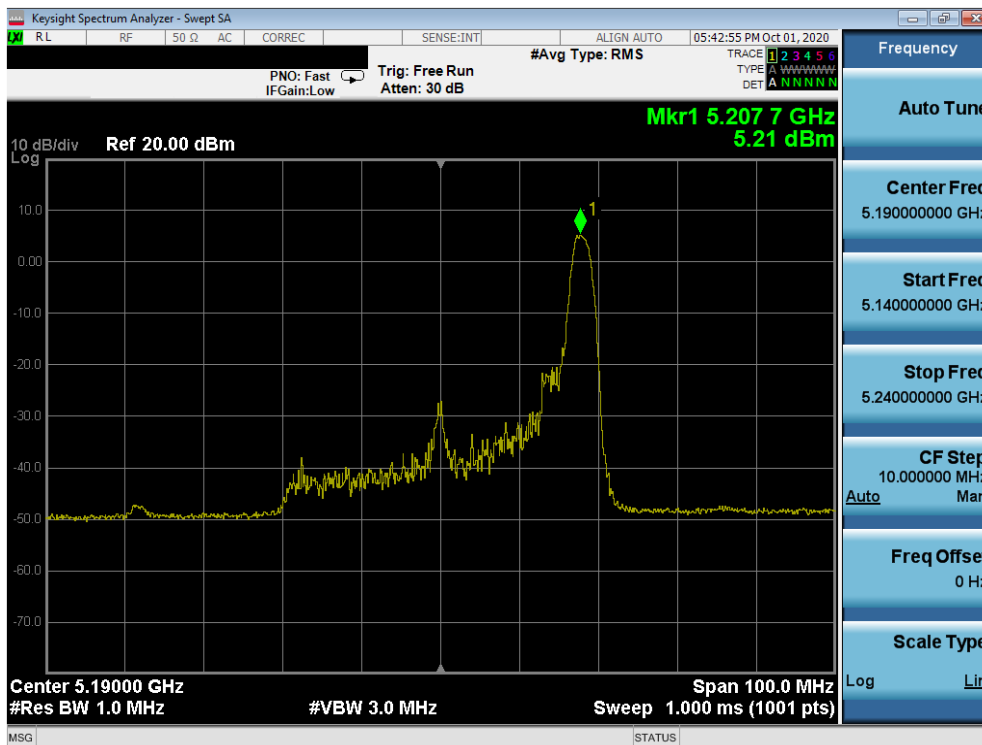


Plot 7-218. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 168 of 307

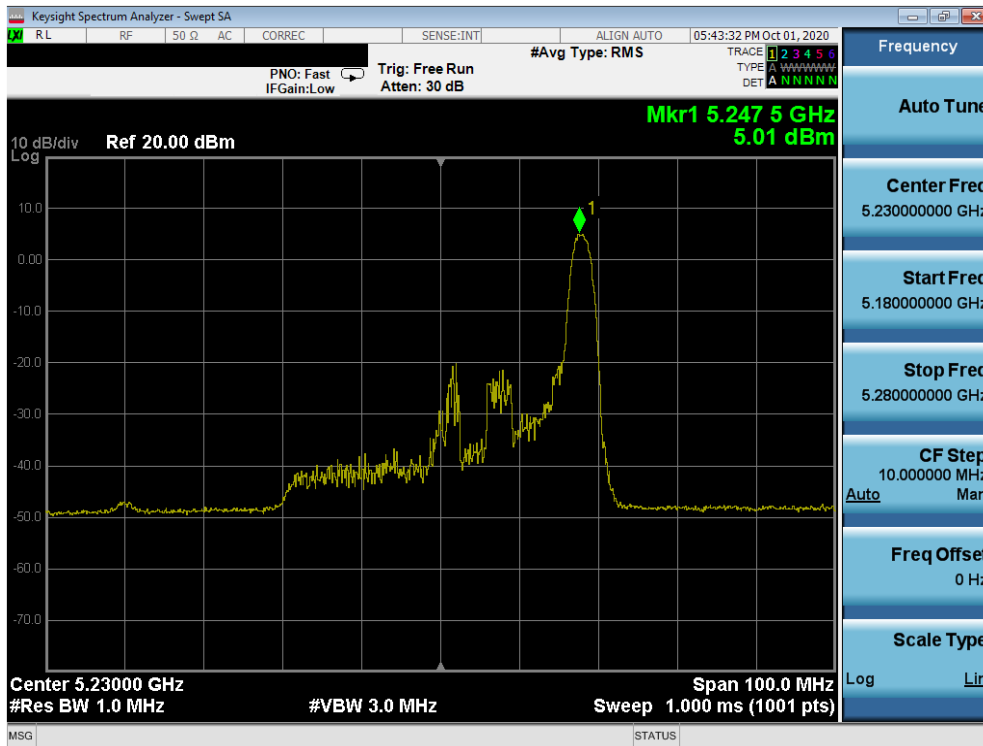


Plot 7-219. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

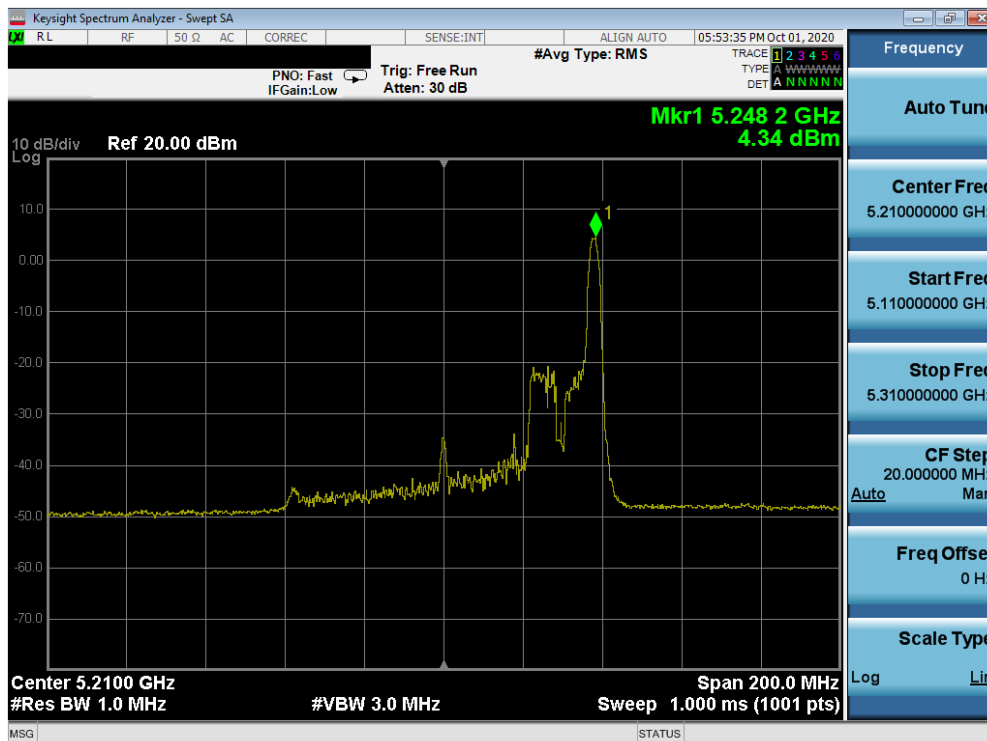


Plot 7-220. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 169 of 307

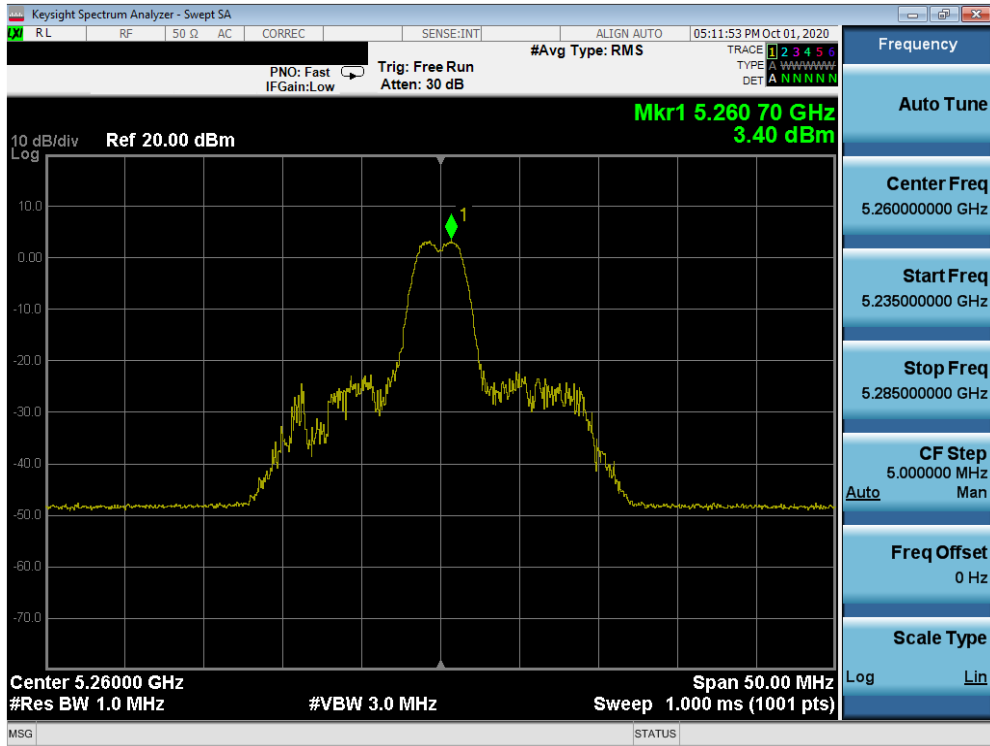


Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

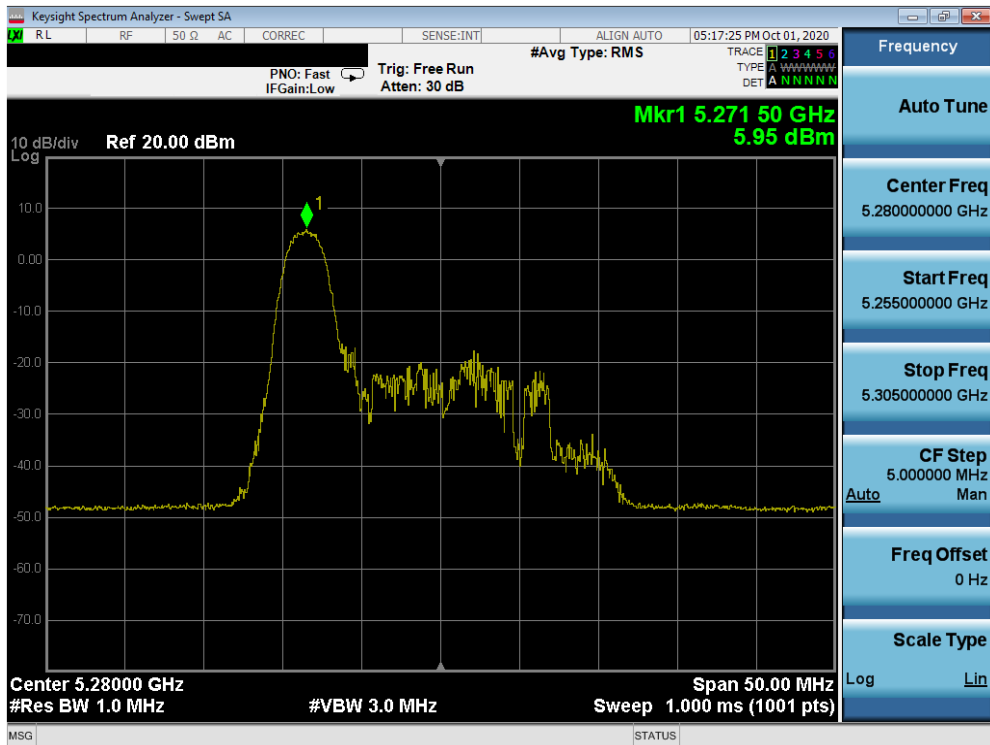


Plot 7-222. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 170 of 307

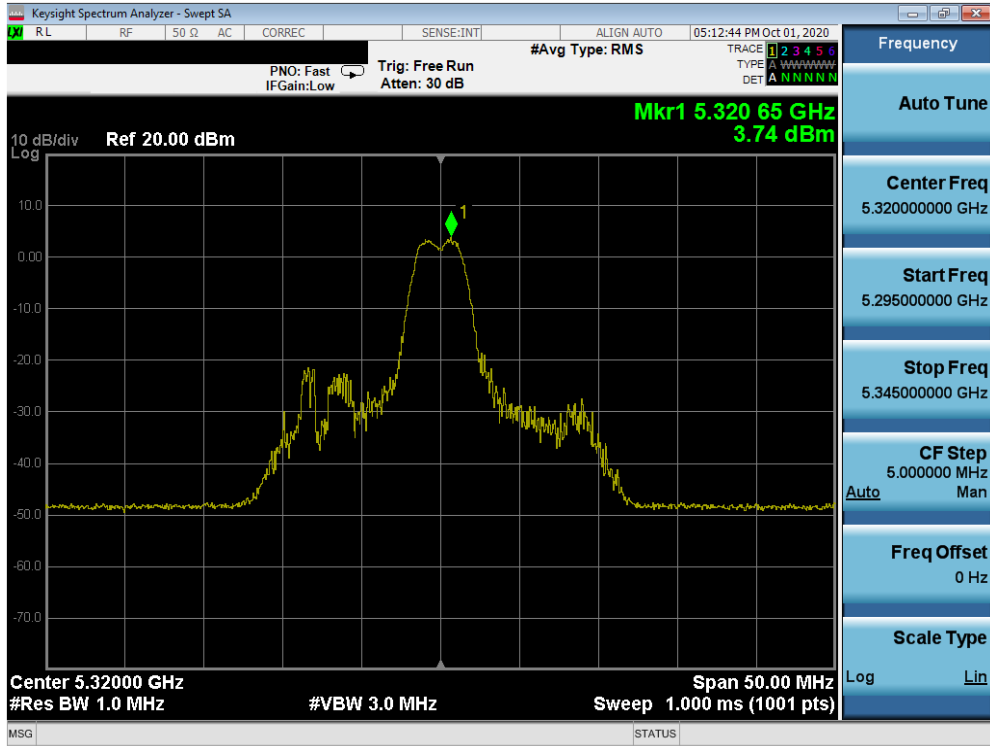


Plot 7-223. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

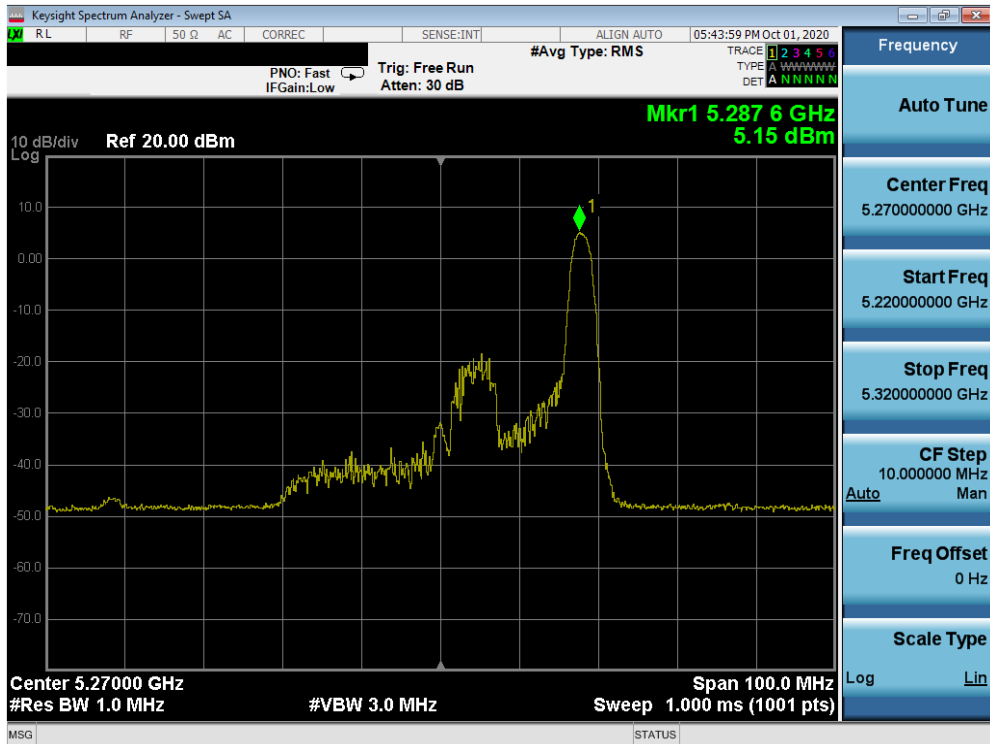


Plot 7-224. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 171 of 307



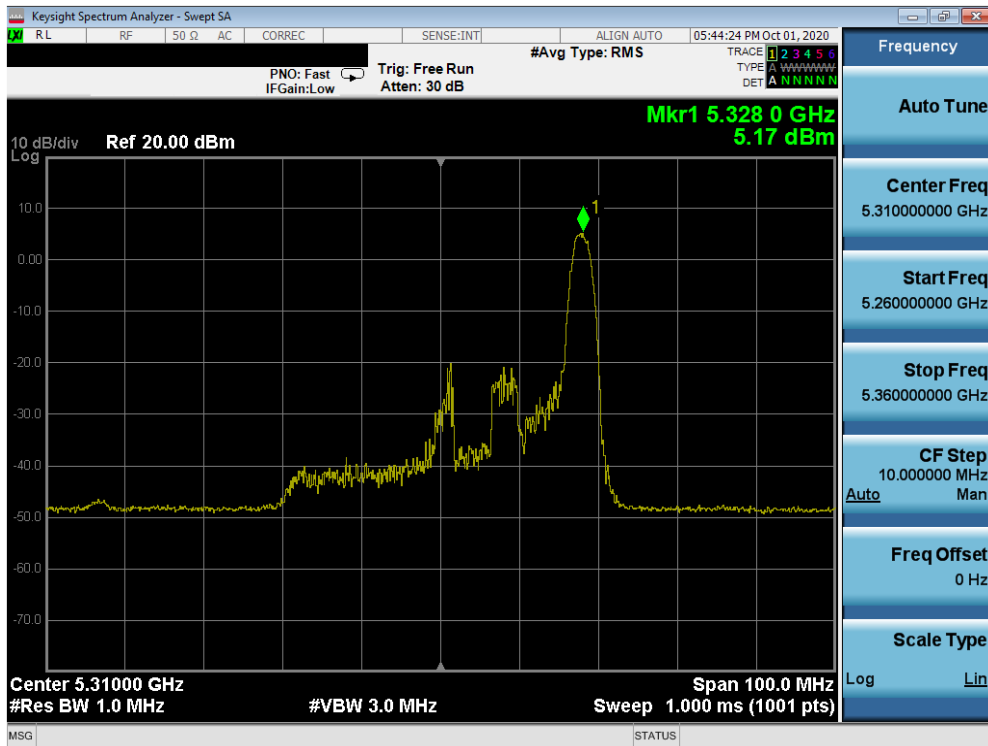
Plot 7-225. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



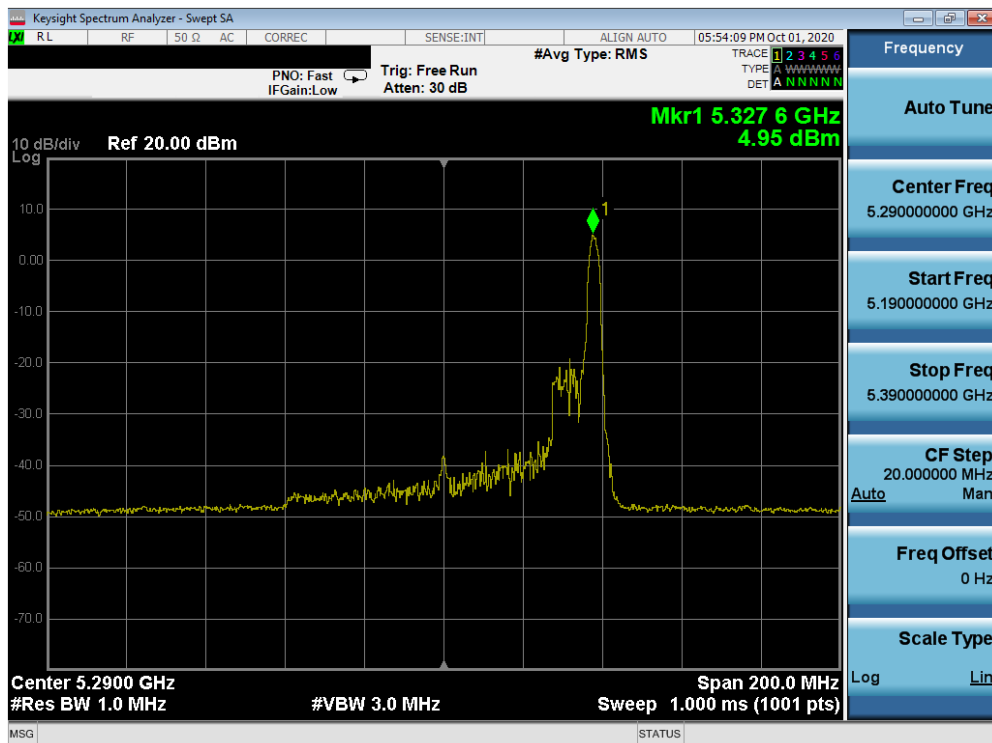
Plot 7-226. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 172 of 307



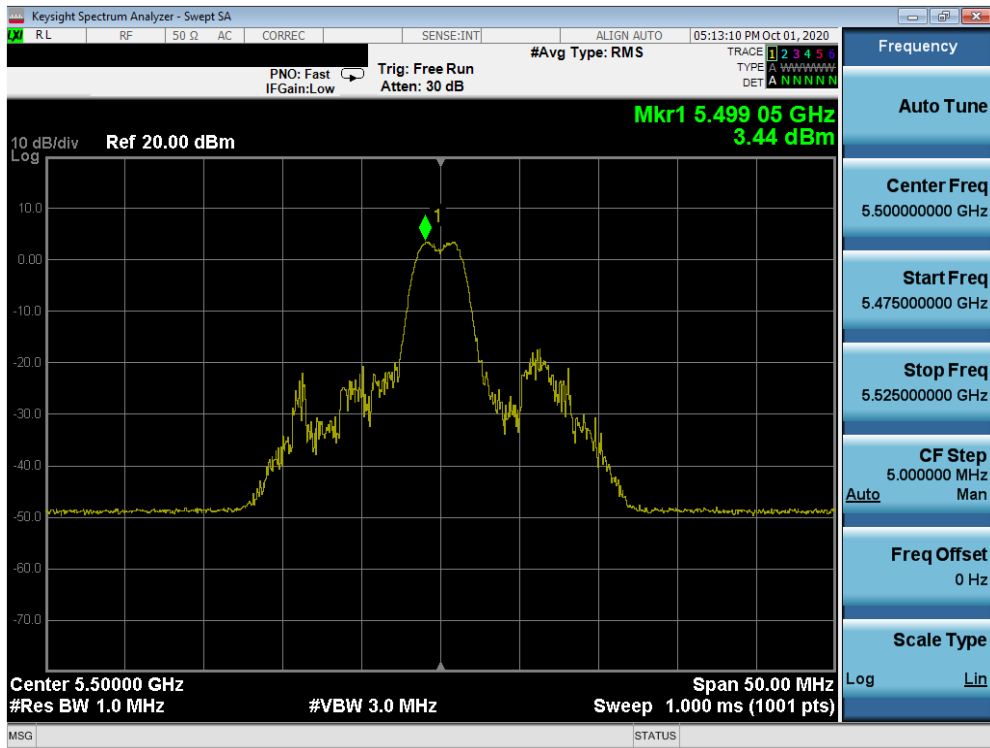


Plot 7-227. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

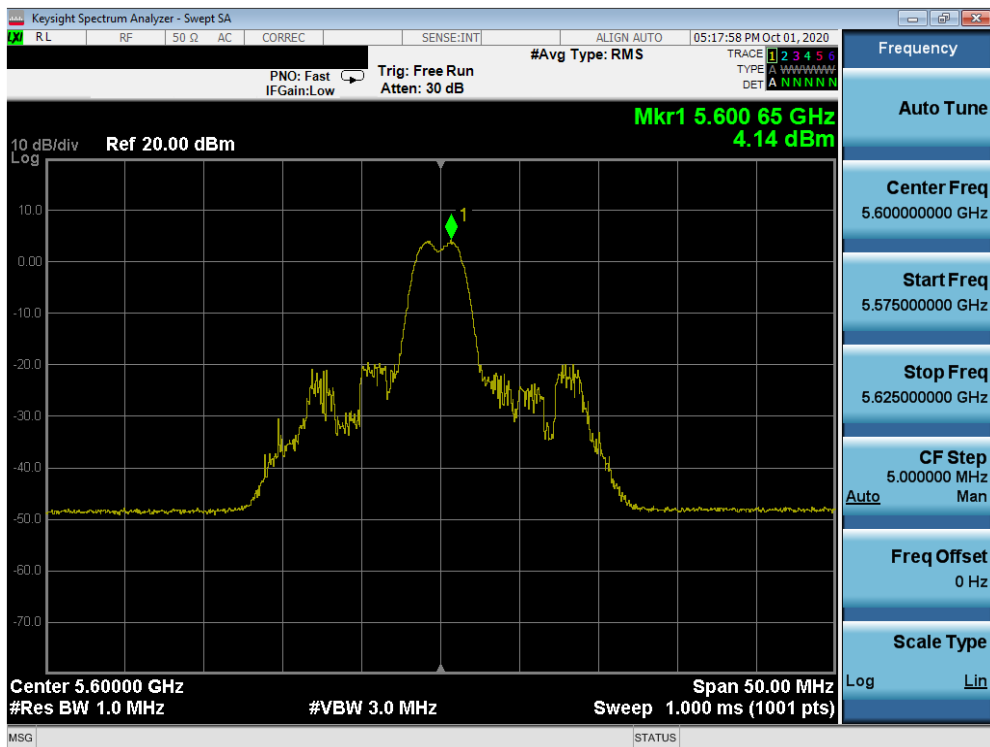


Plot 7-228. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 173 of 307

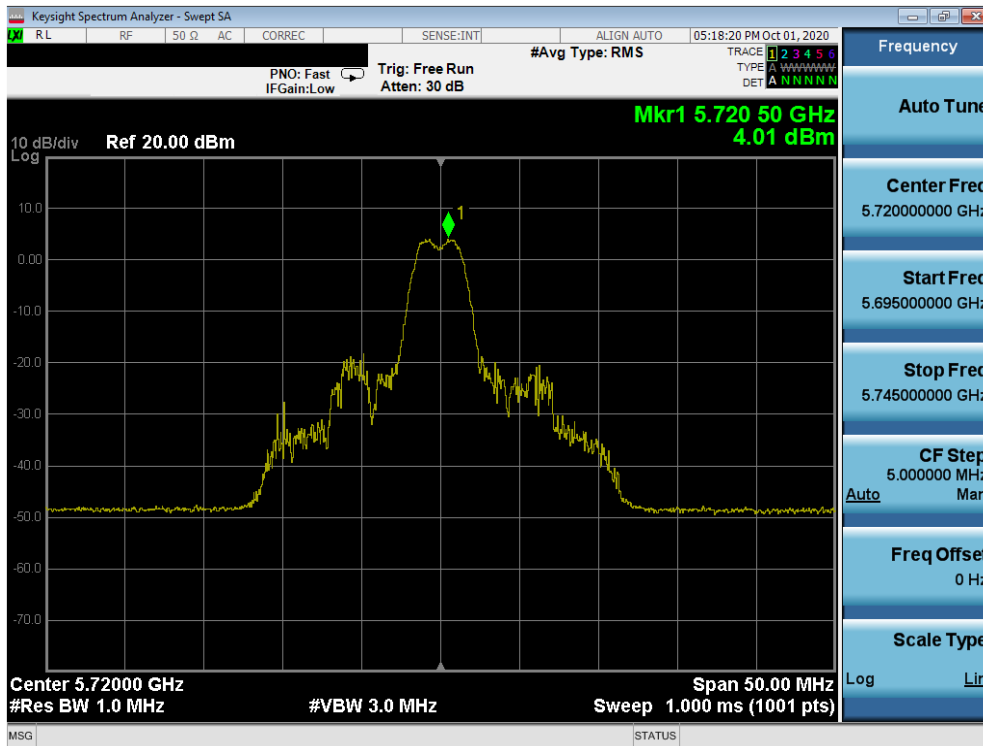


Plot 7-229. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

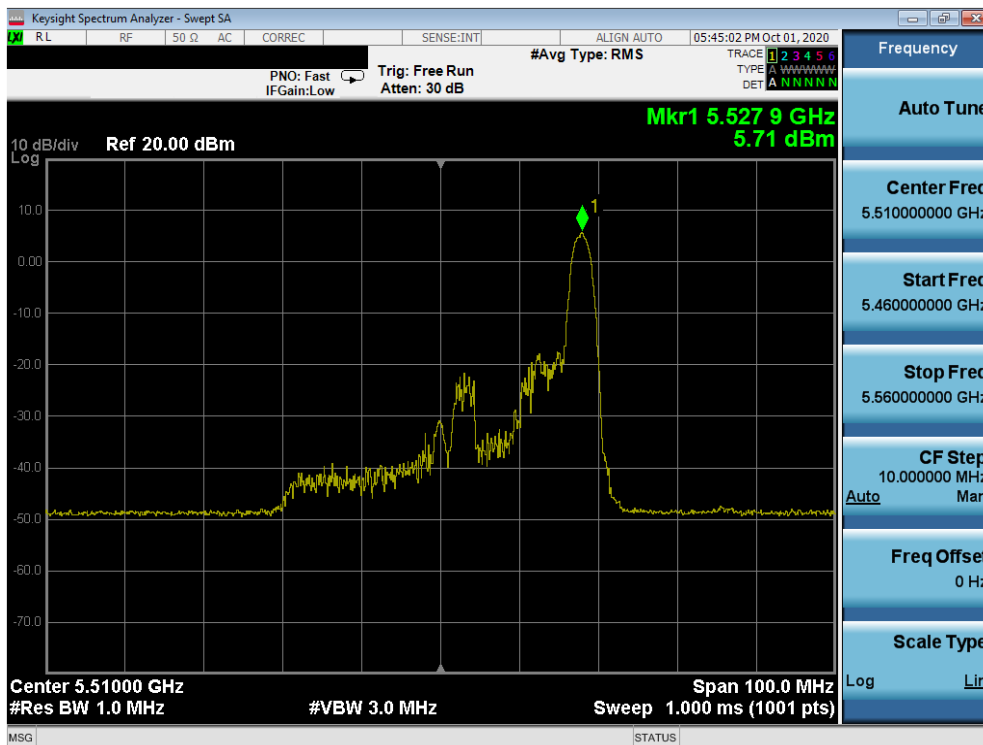


Plot 7-230. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 174 of 307

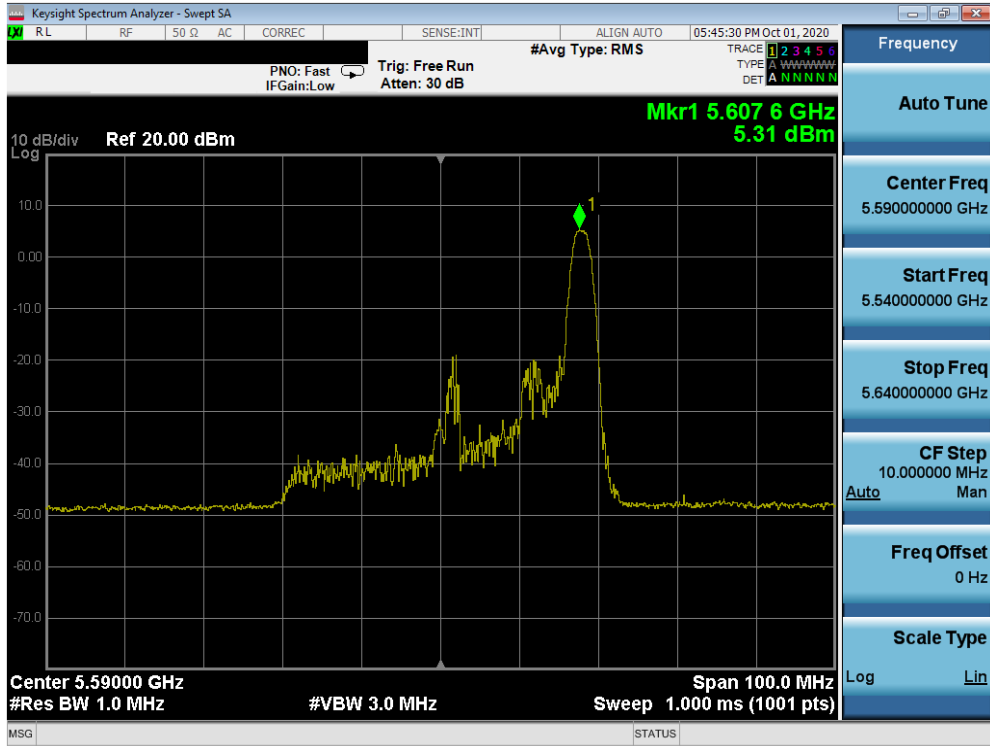


Plot 7-231. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

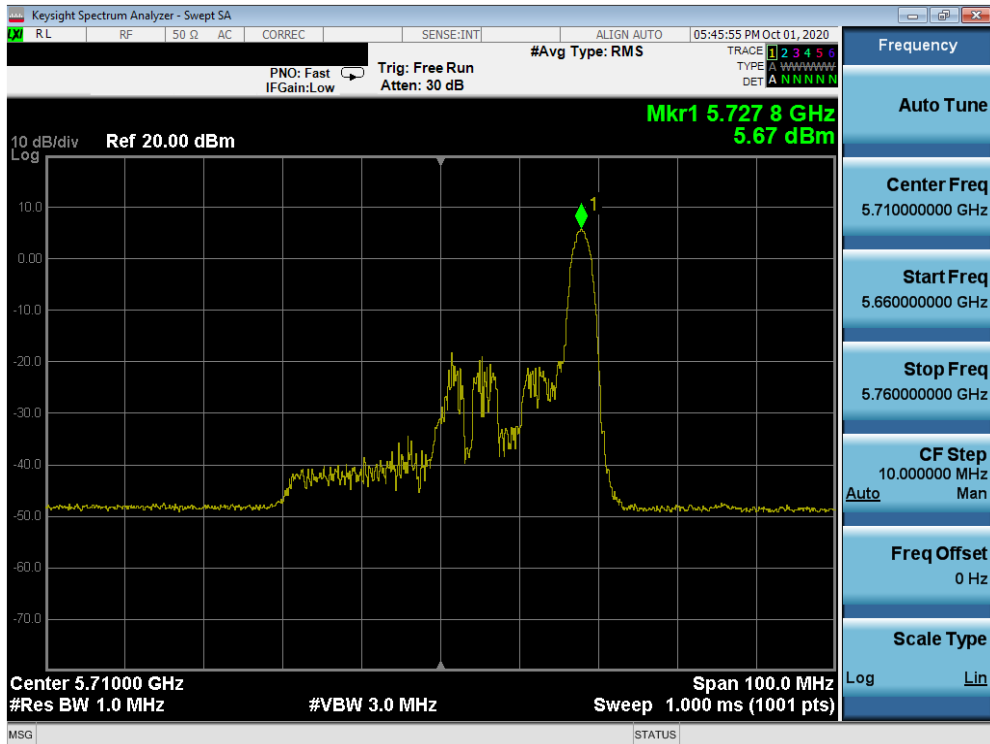


Plot 7-232. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 175 of 307

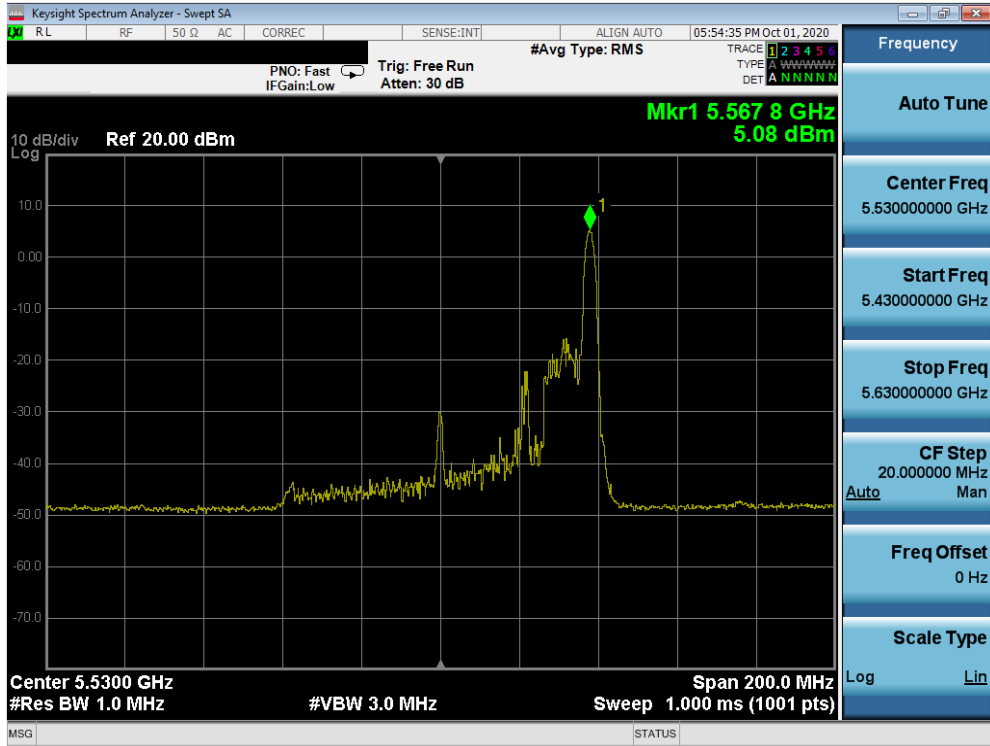


Plot 7-233. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

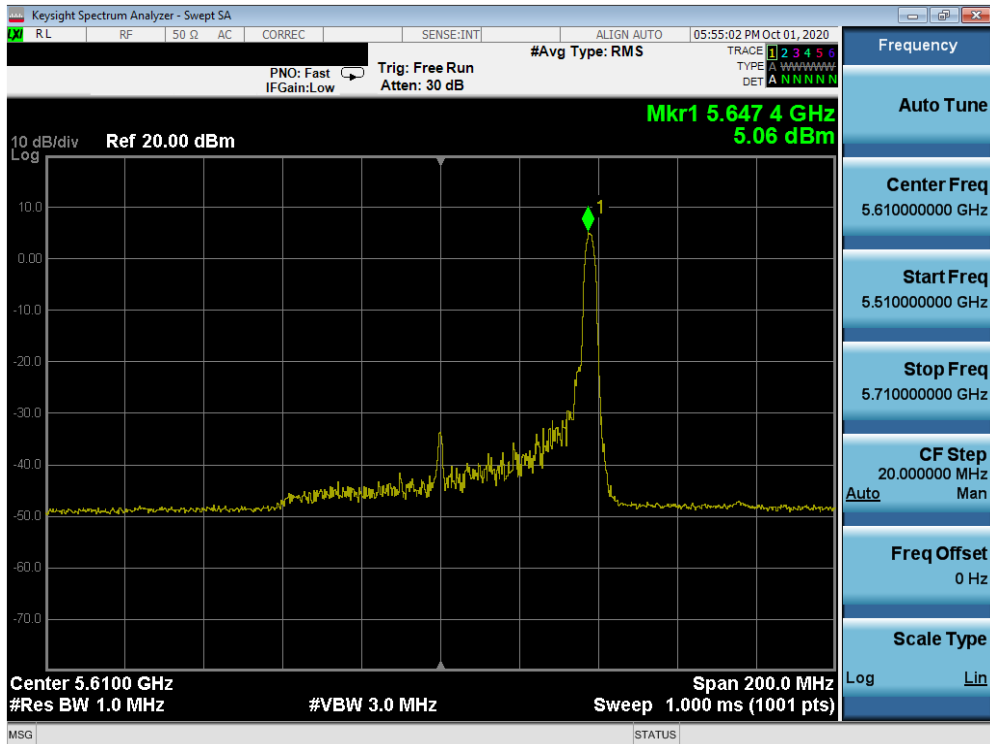


Plot 7-234. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 176 of 307

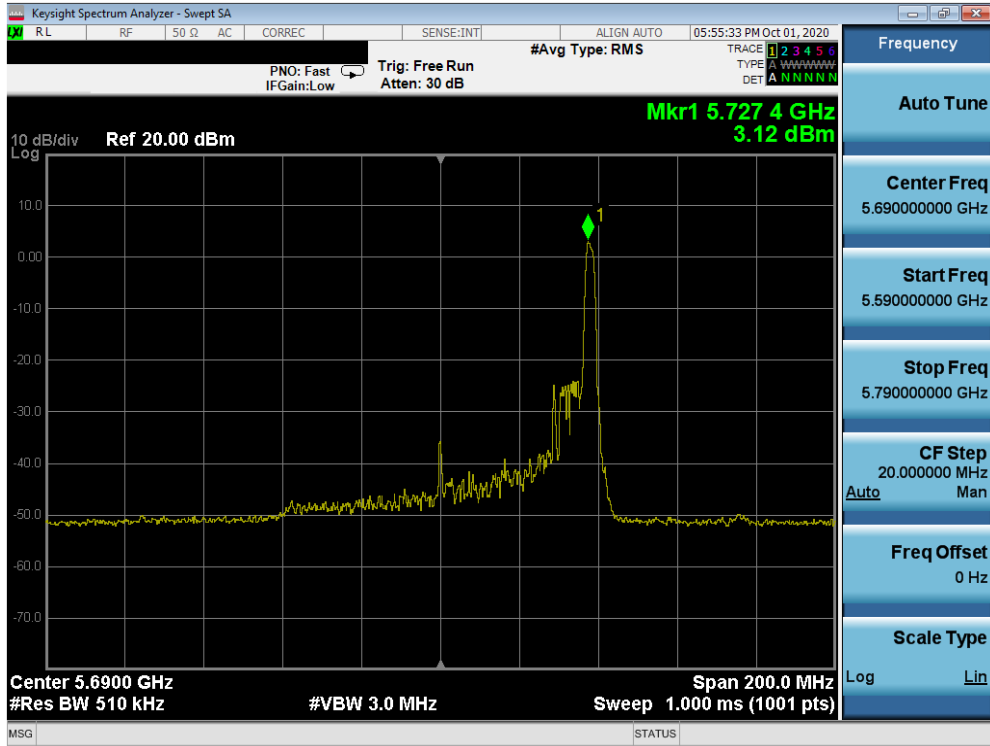


Plot 7-235. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-236. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG996U	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 177 of 307

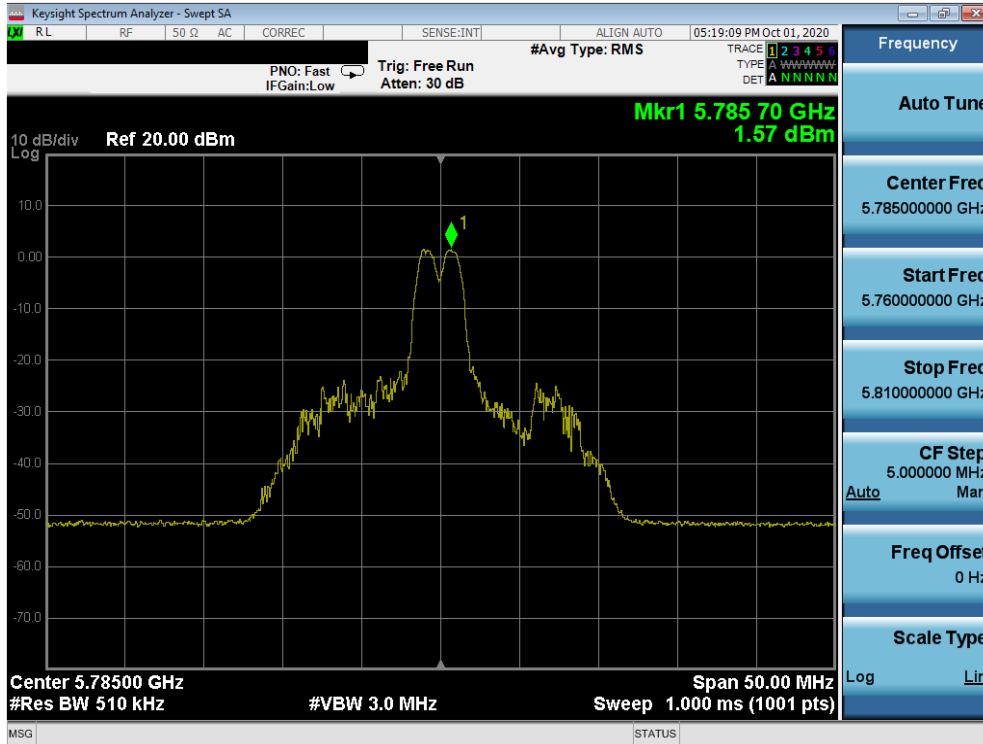


Plot 7-237. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

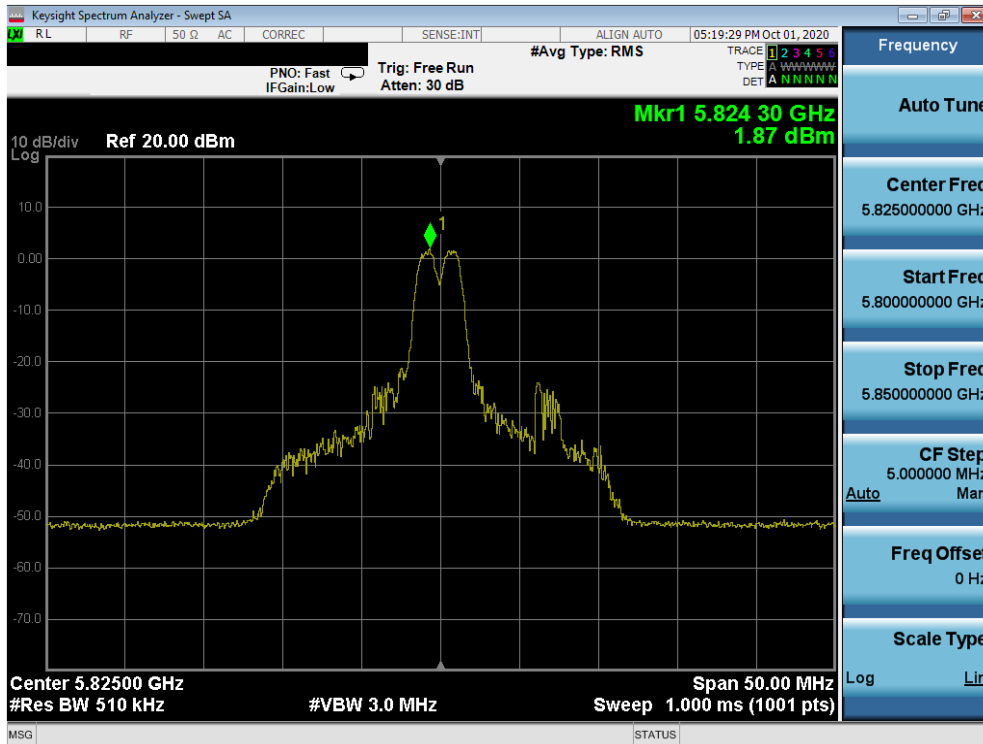


Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 178 of 307

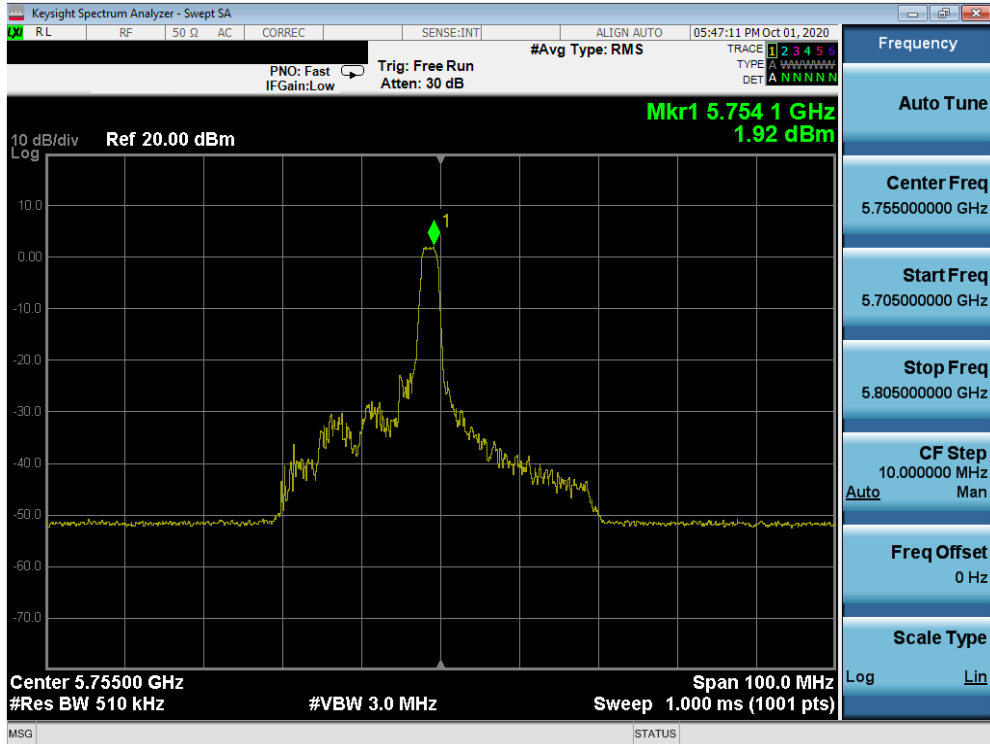


Plot 7-239. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

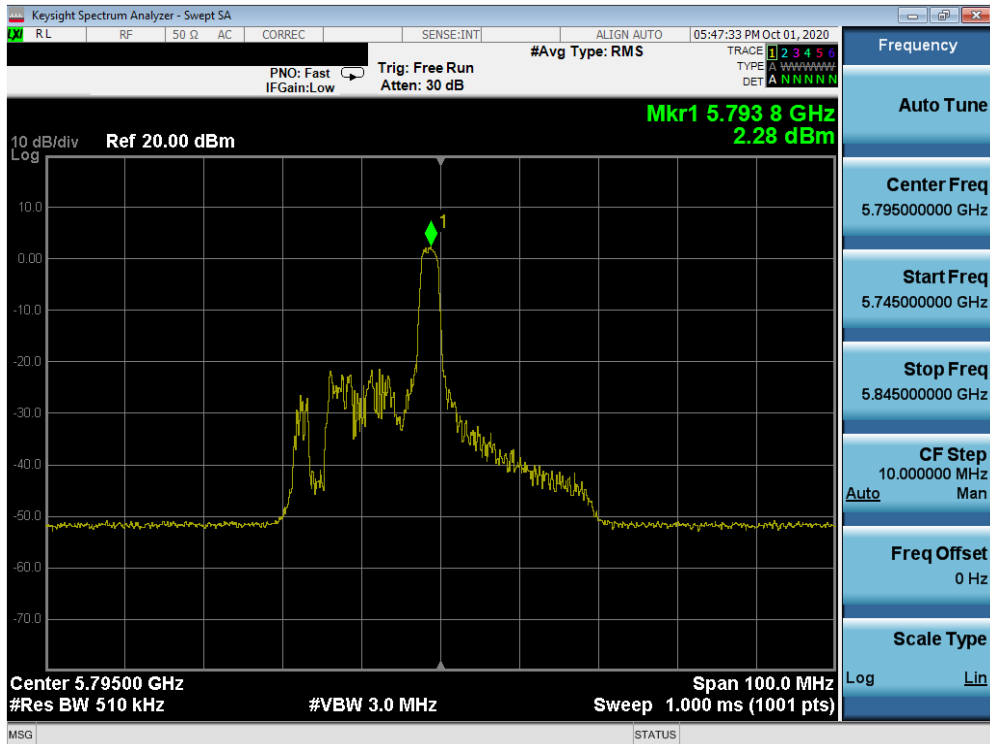


Plot 7-240. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 179 of 307



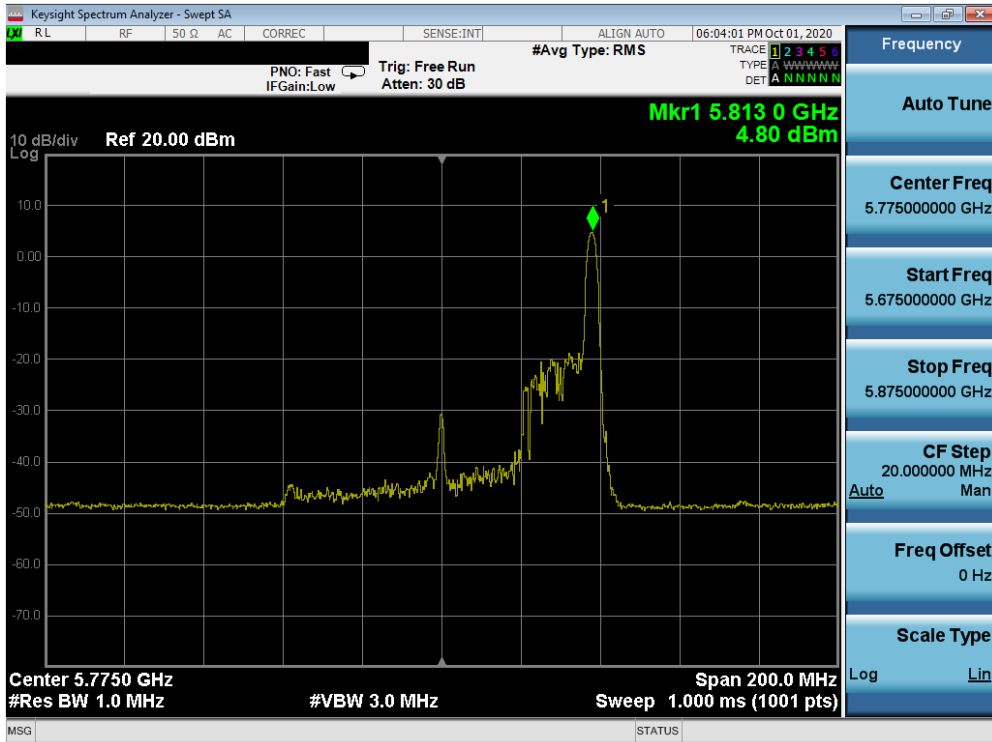
Plot 7-241. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-242. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

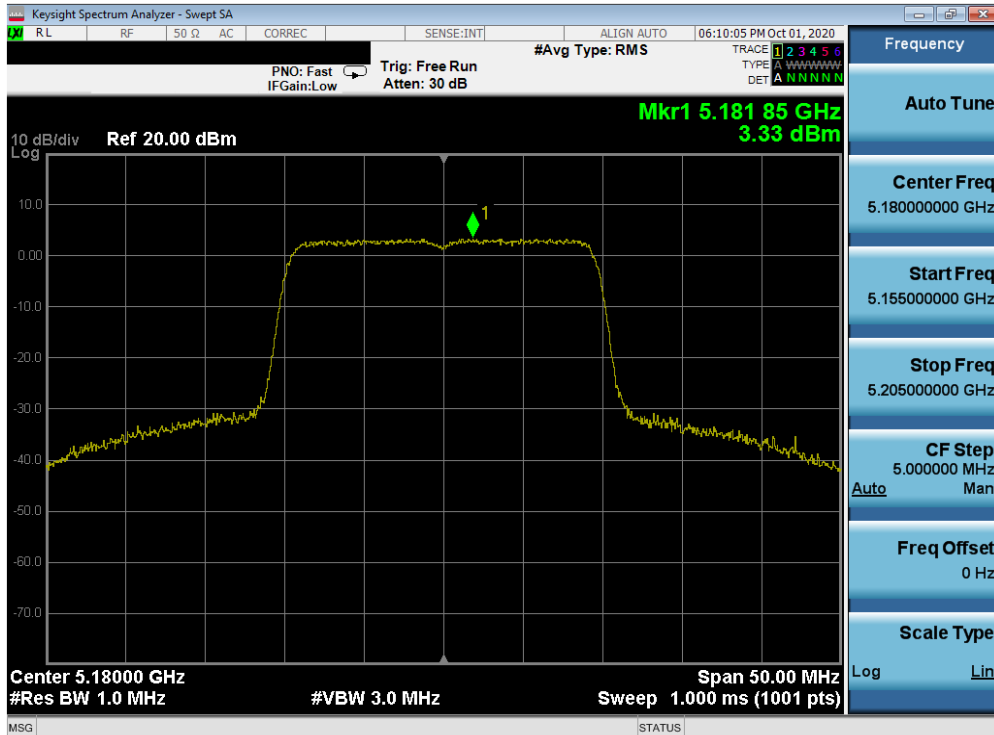
FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 180 of 307



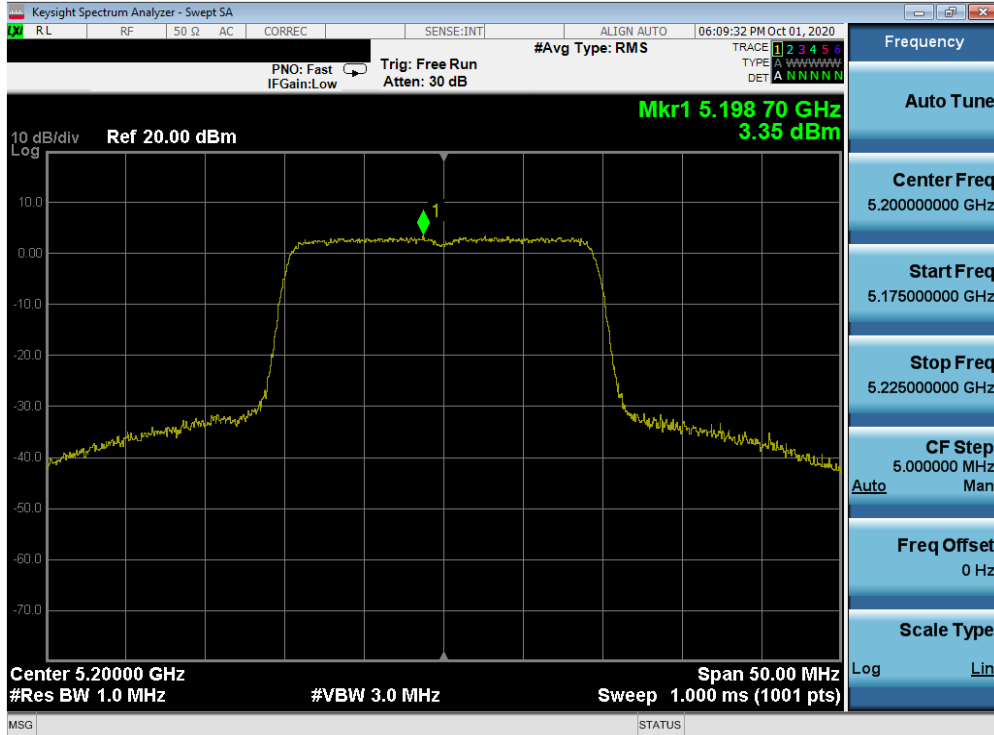


Plot 7-243. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 181 of 307

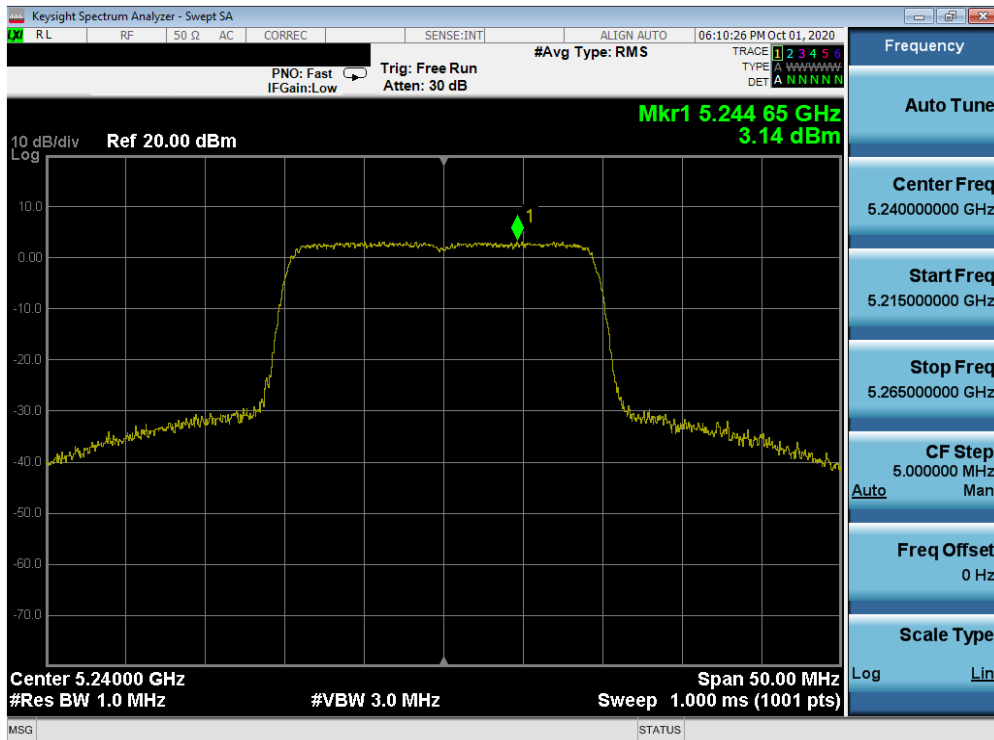


Plot 7-244. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

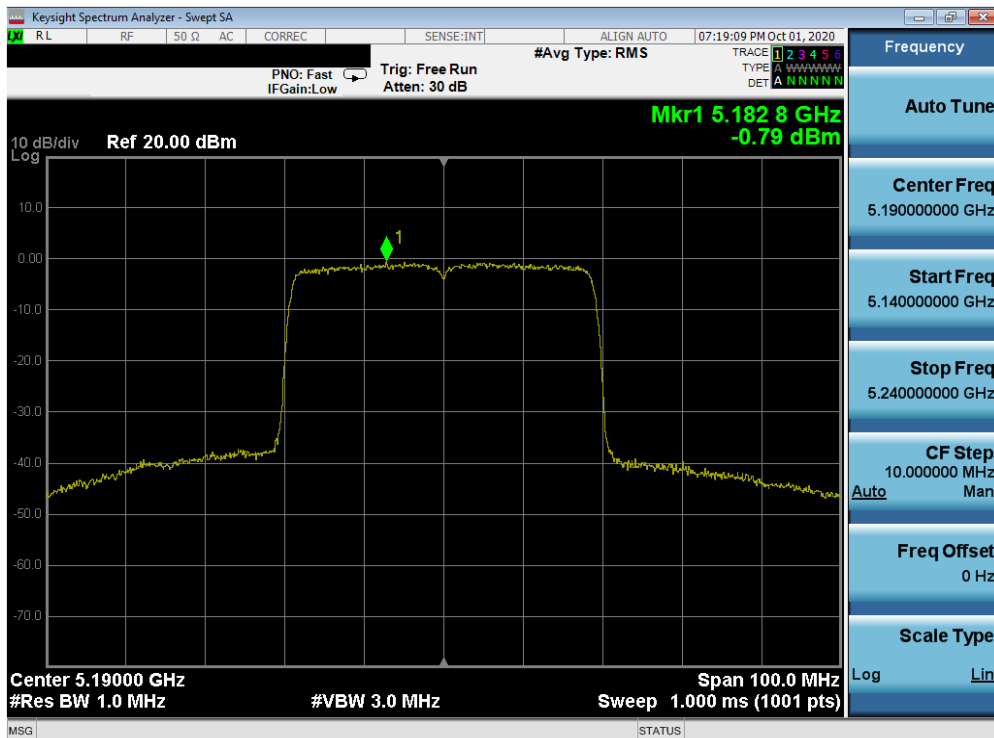


Plot 7-245. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 182 of 307

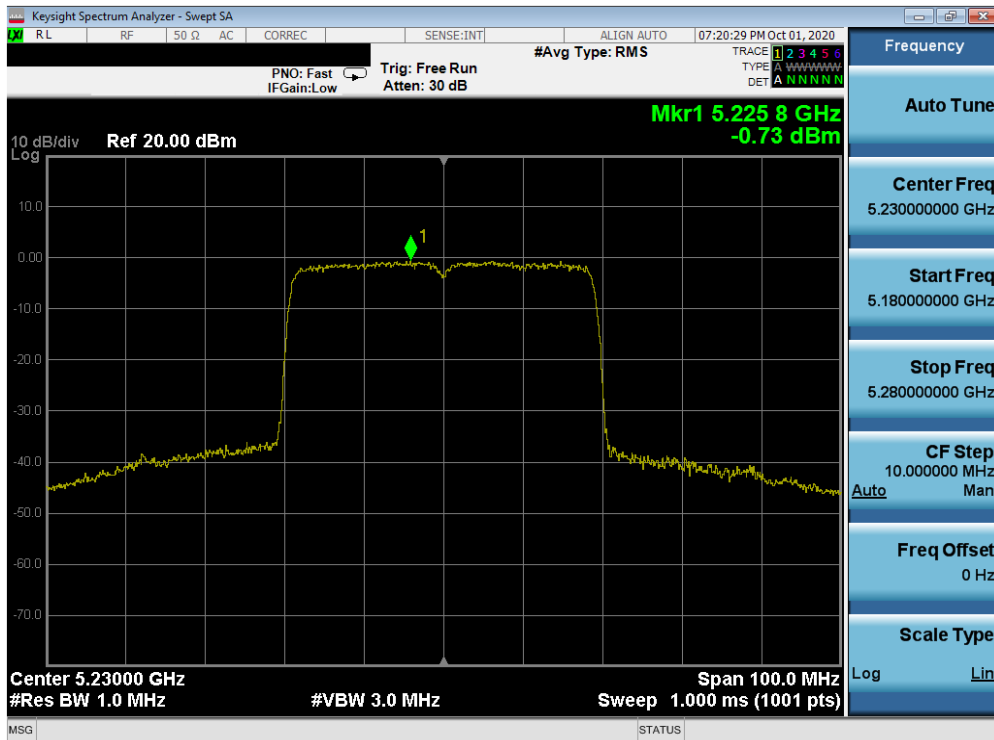


Plot 7-246. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

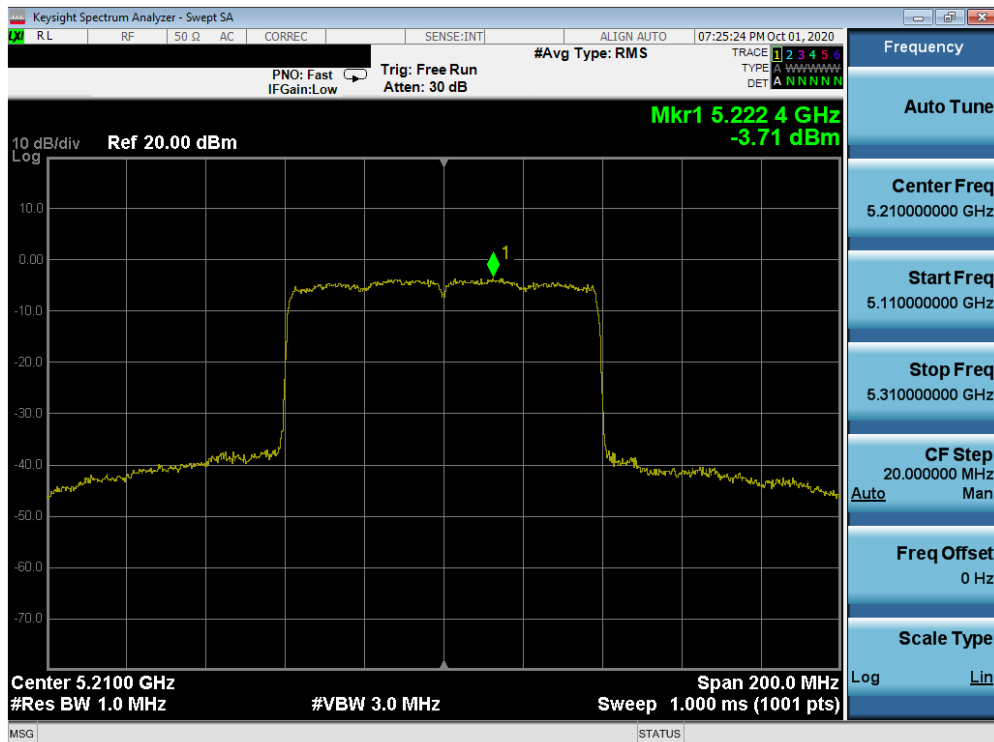


Plot 7-247. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 183 of 307

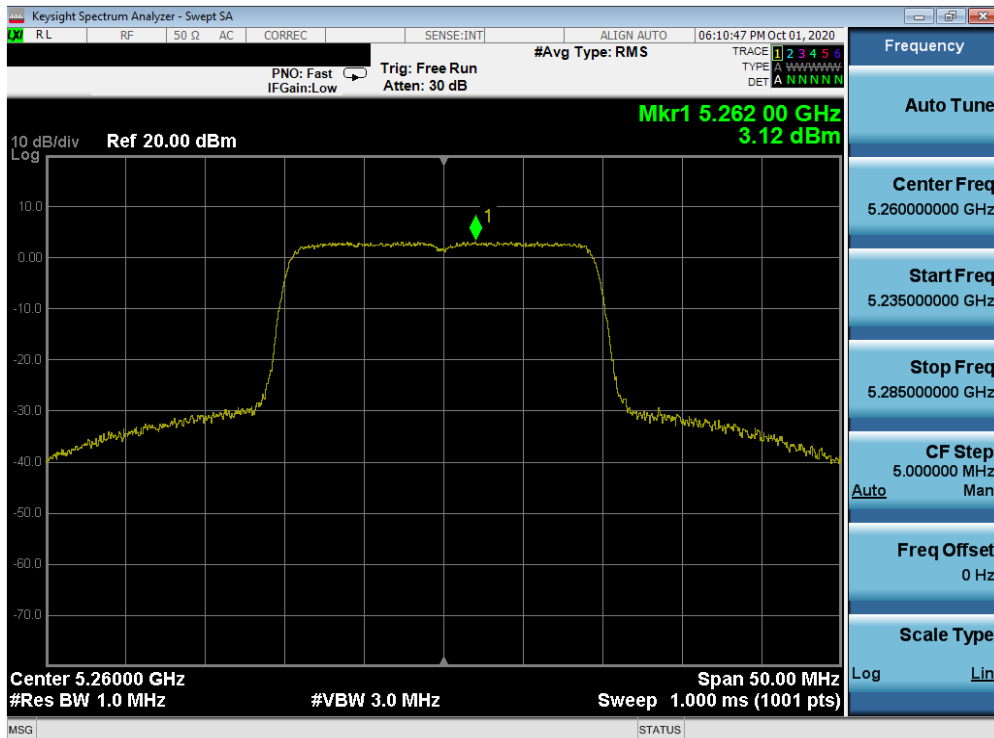


Plot 7-248. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

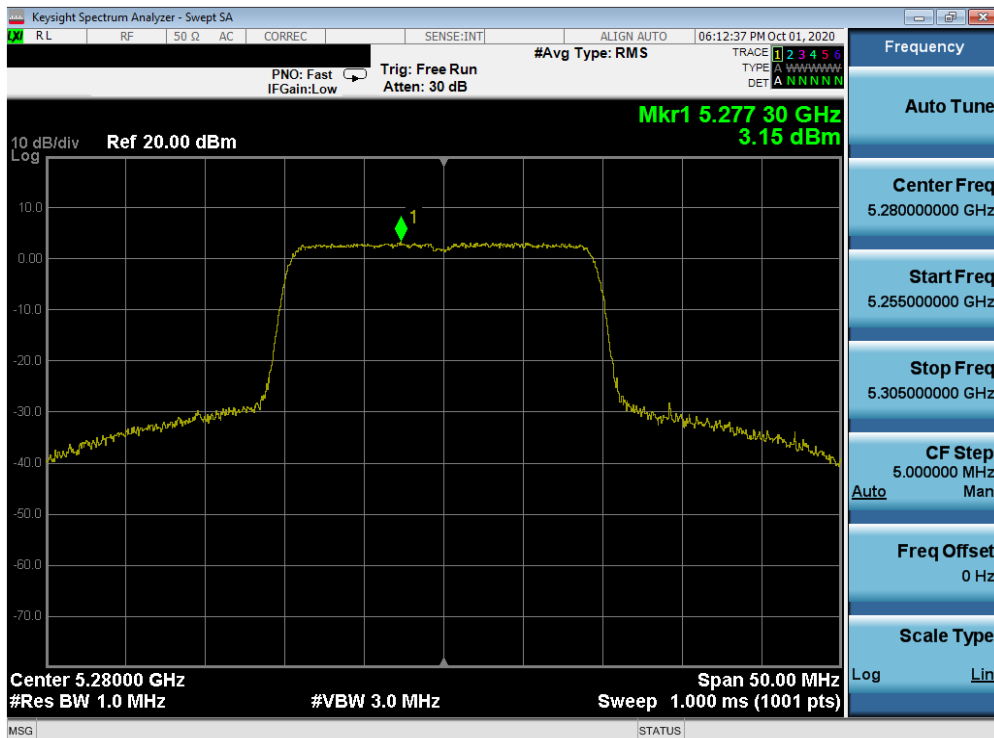


Plot 7-249. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 184 of 307

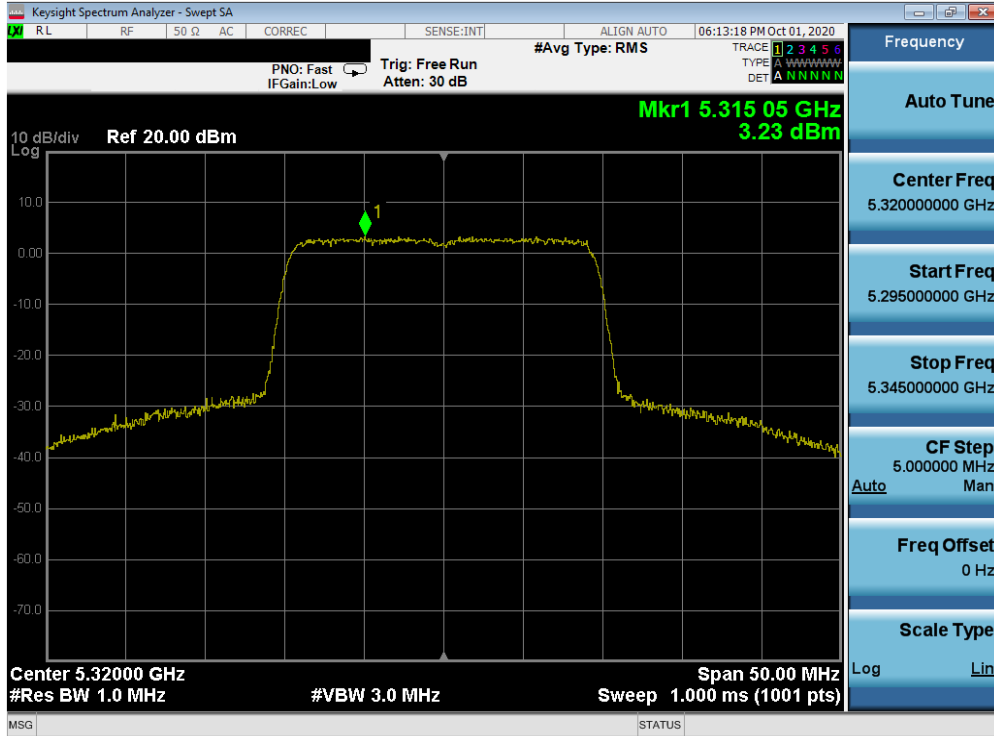


Plot 7-250. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

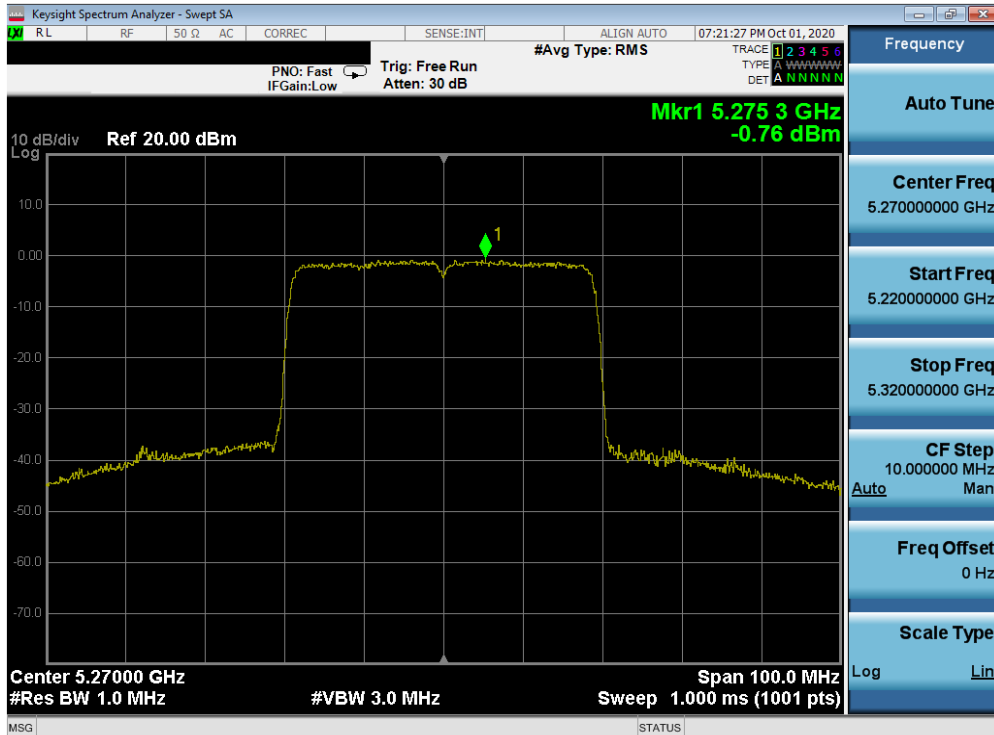


Plot 7-251. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 185 of 307

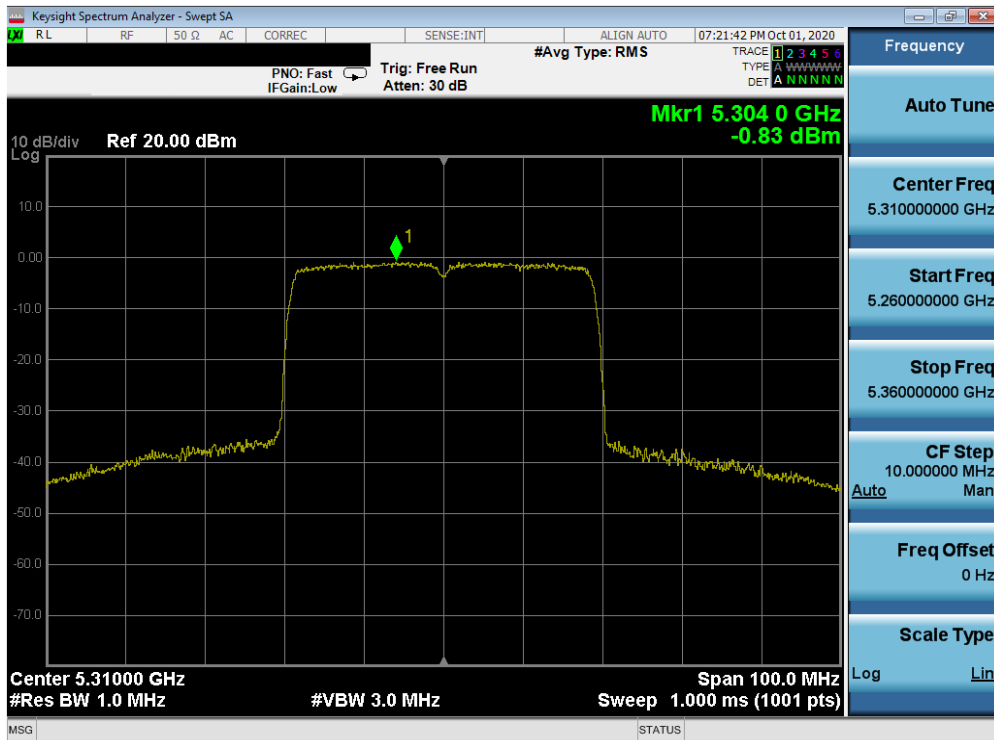


Plot 7-252. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

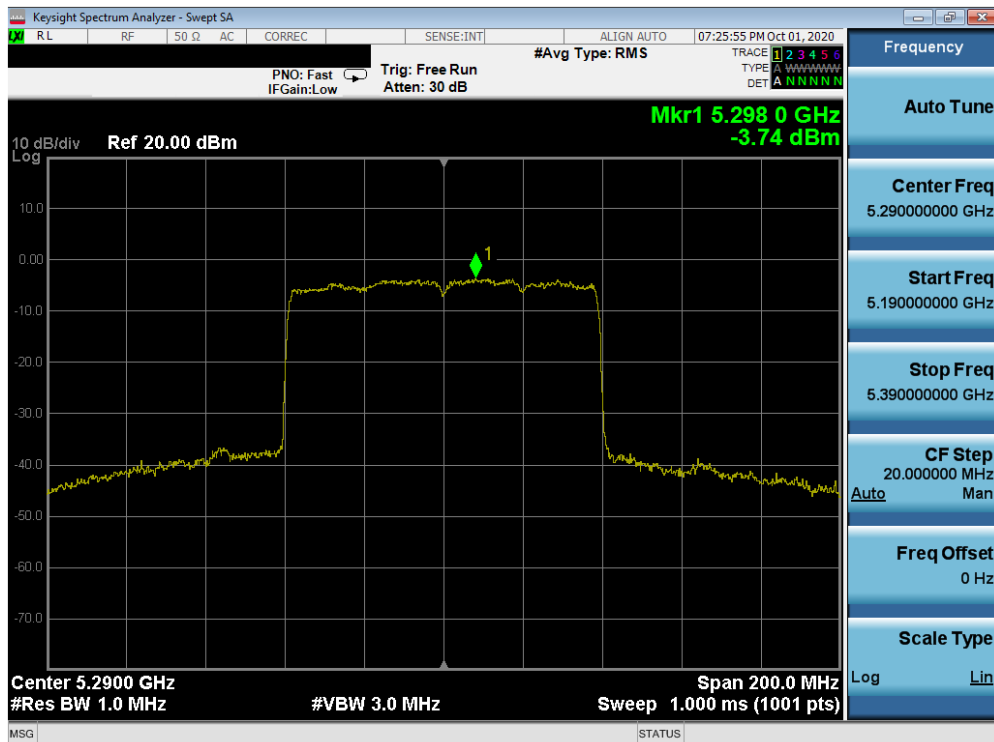


Plot 7-253. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 186 of 307

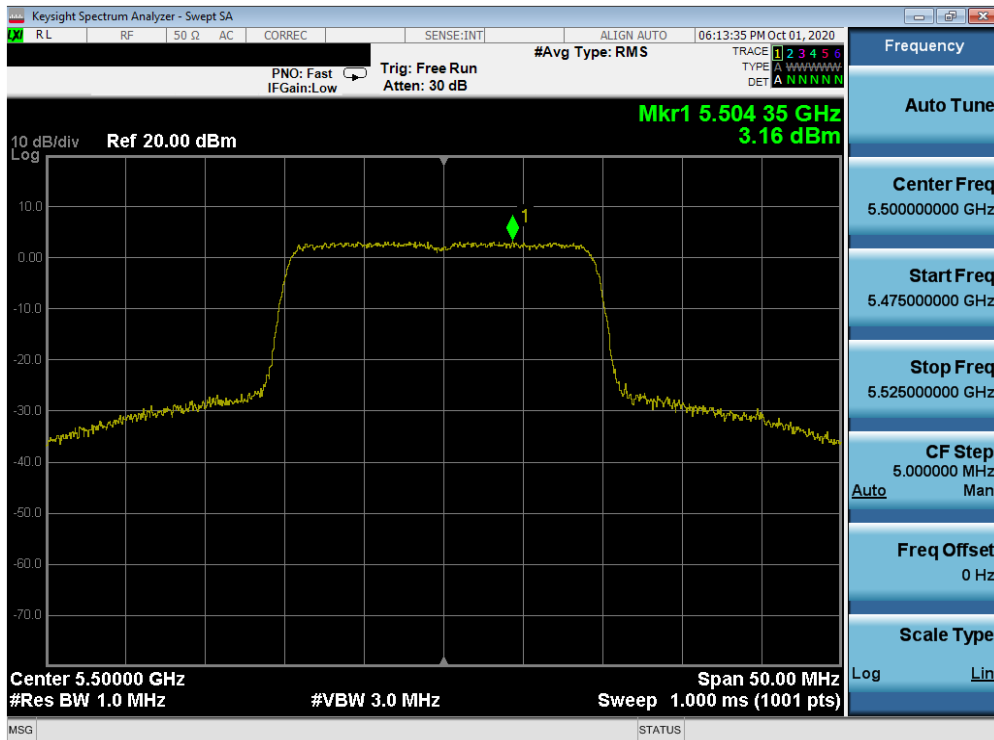


Plot 7-254. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

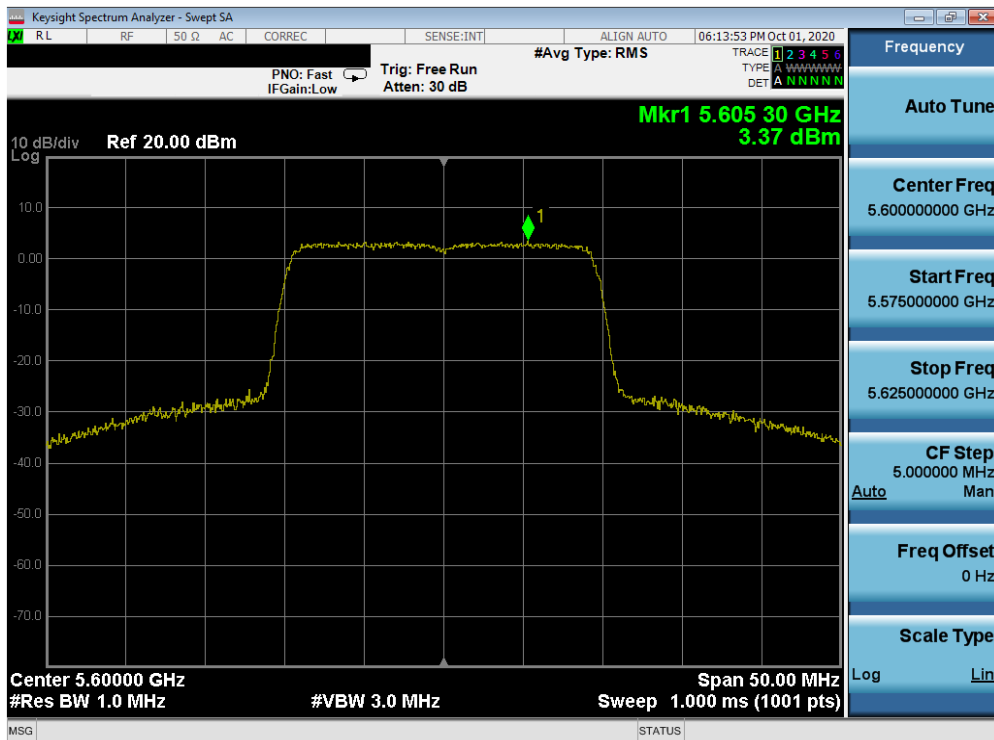


Plot 7-255. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 187 of 307



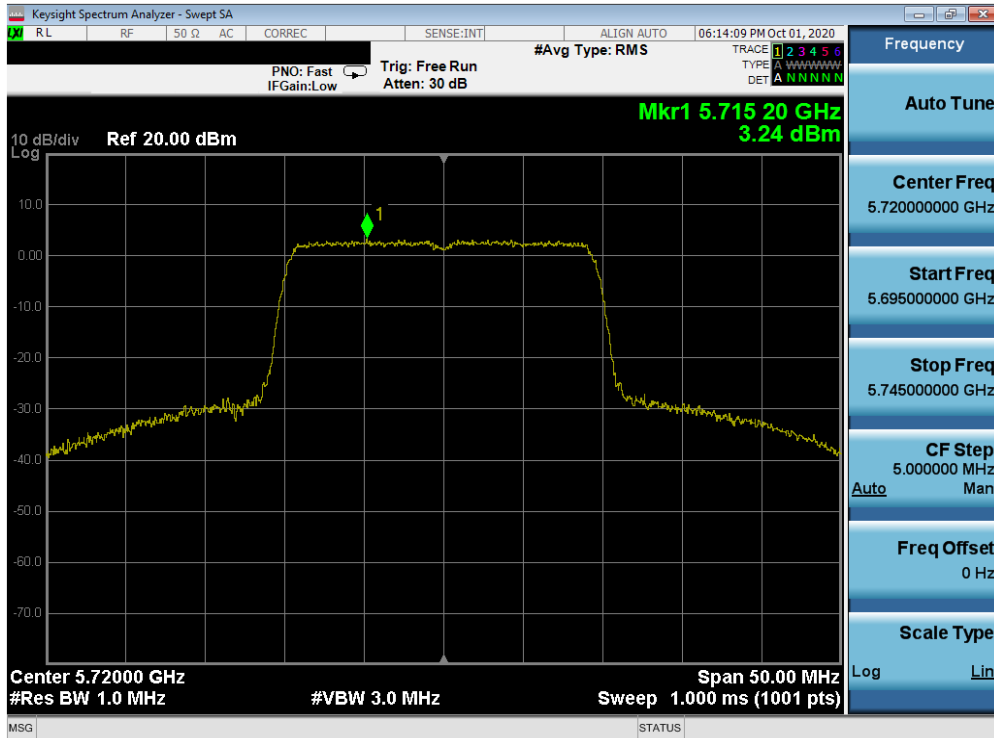
Plot 7-256. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)



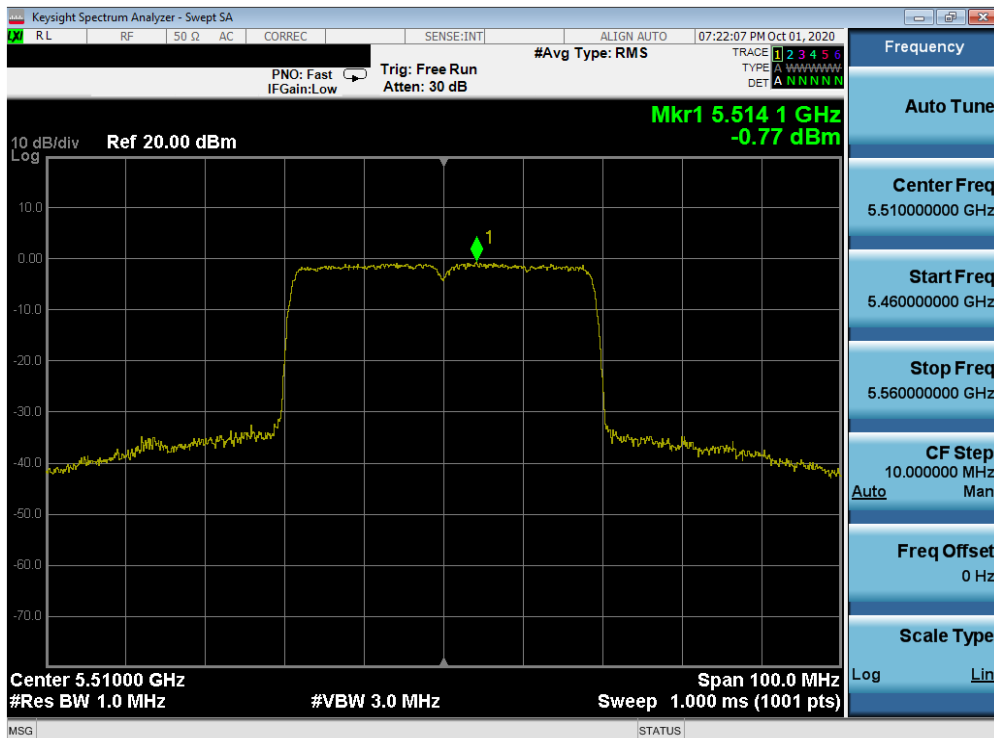
Plot 7-257. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 188 of 307



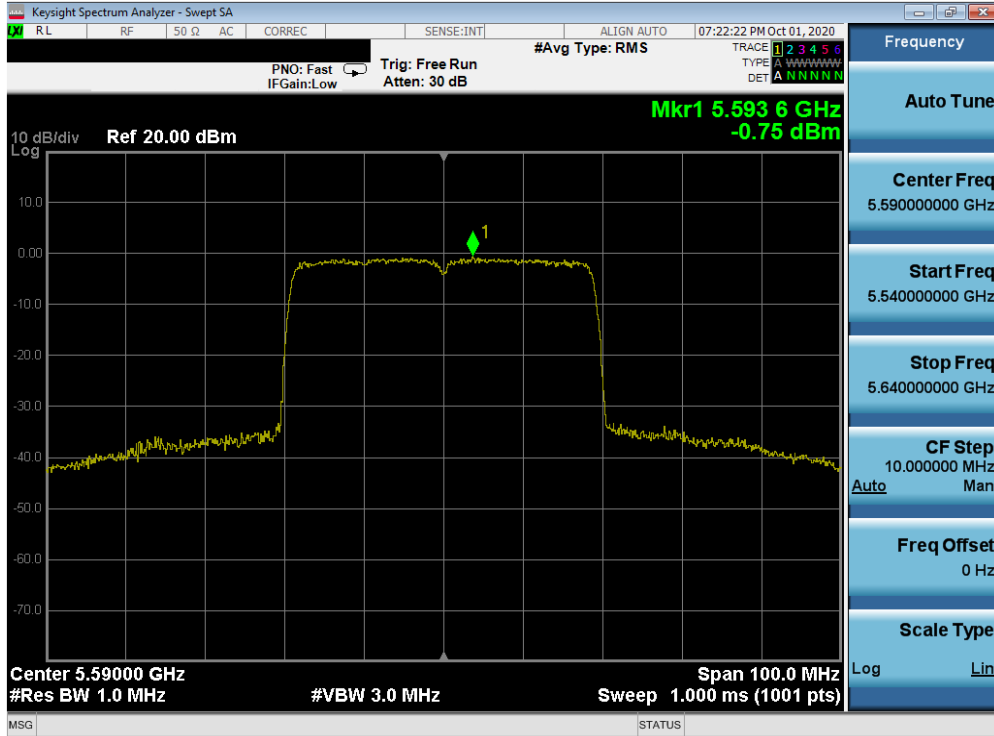


Plot 7-258. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

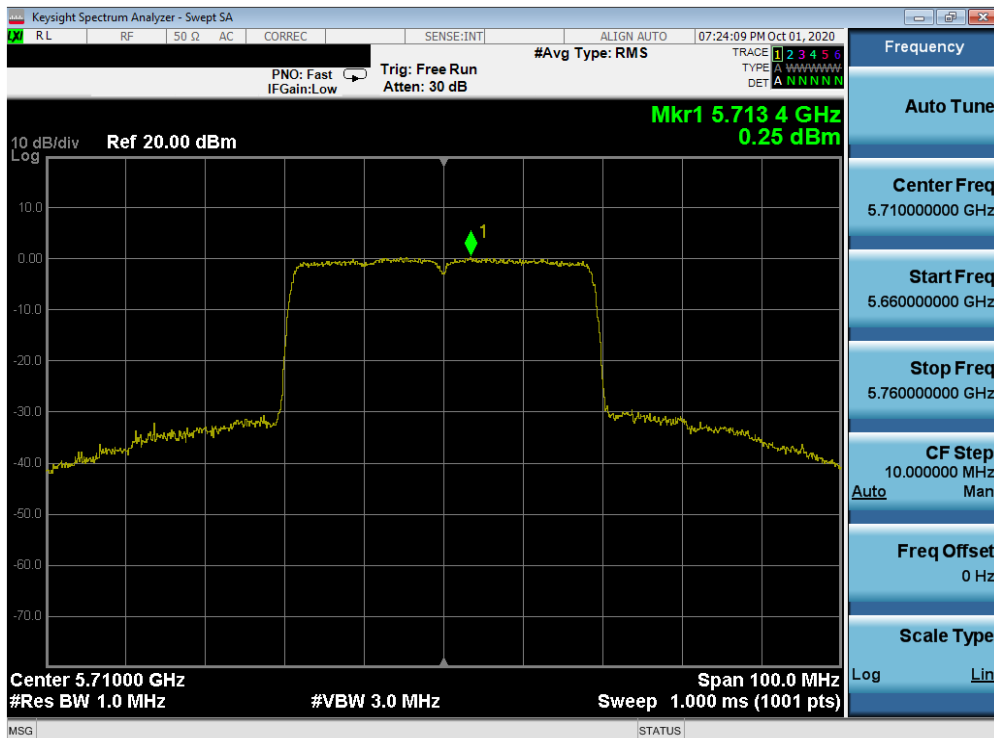


Plot 7-259. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 189 of 307

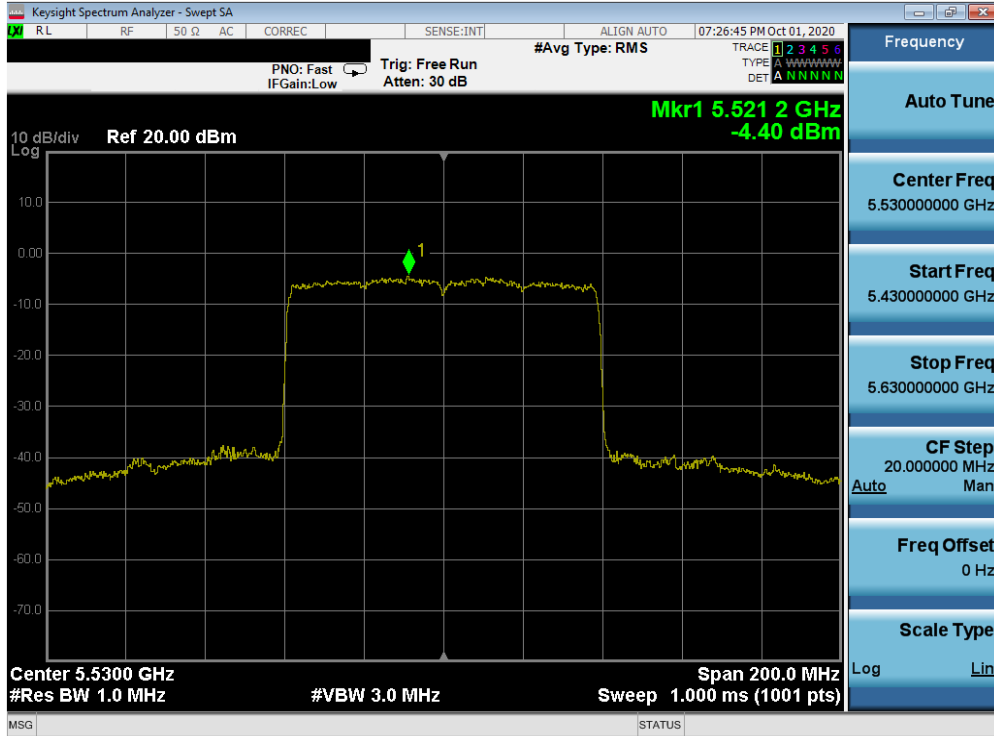


Plot 7-260. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

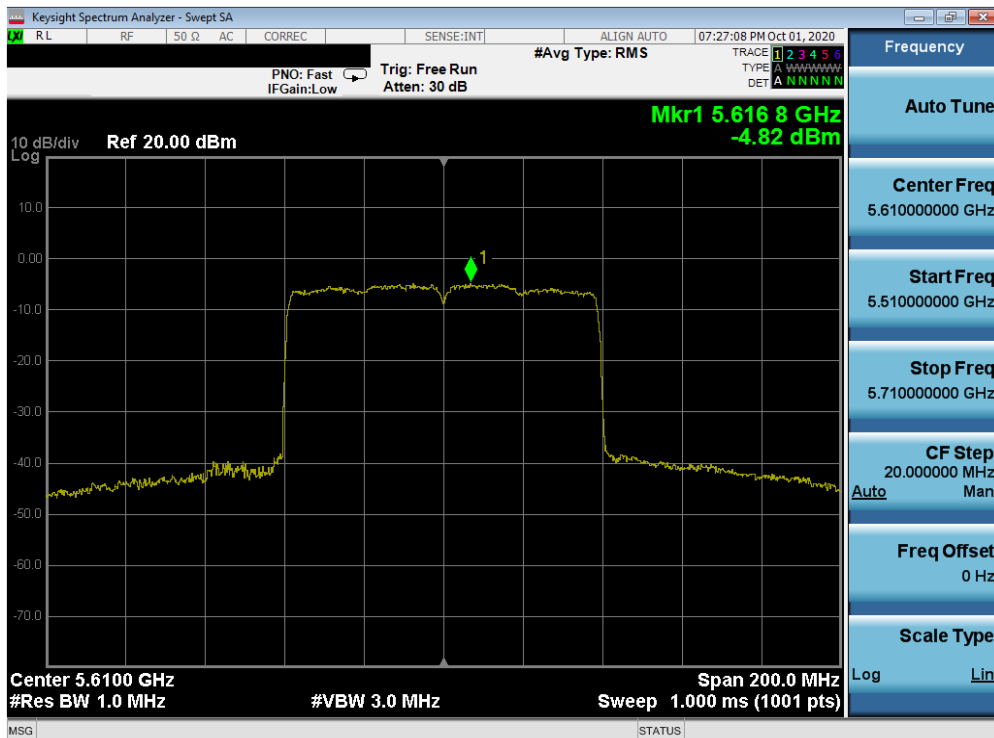


Plot 7-261. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 190 of 307

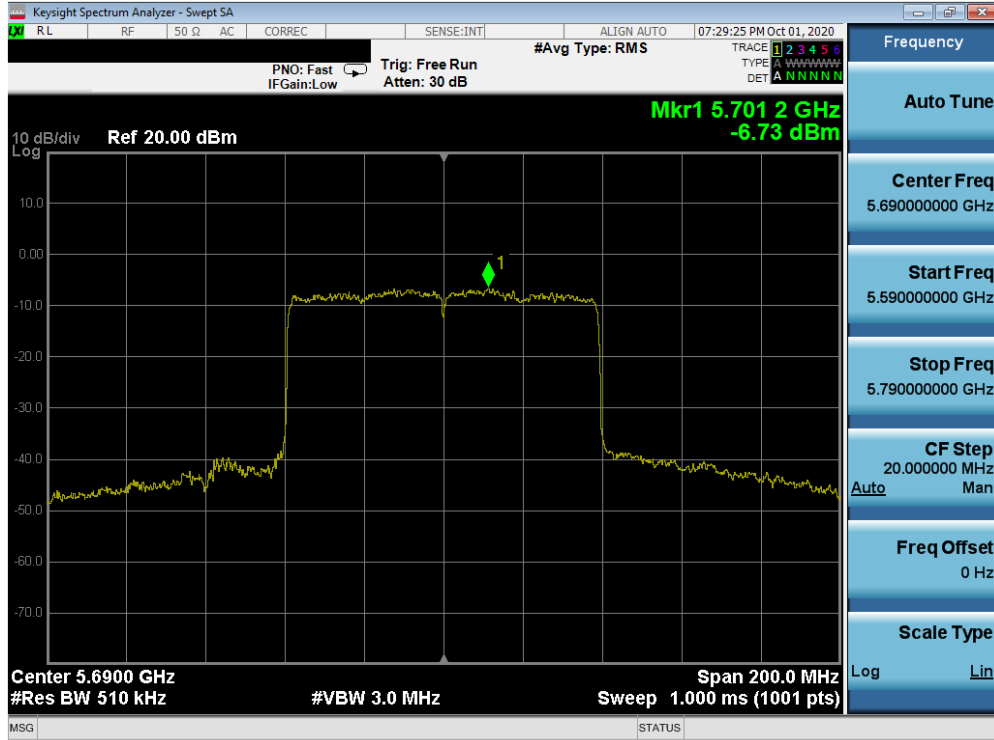


Plot 7-262. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

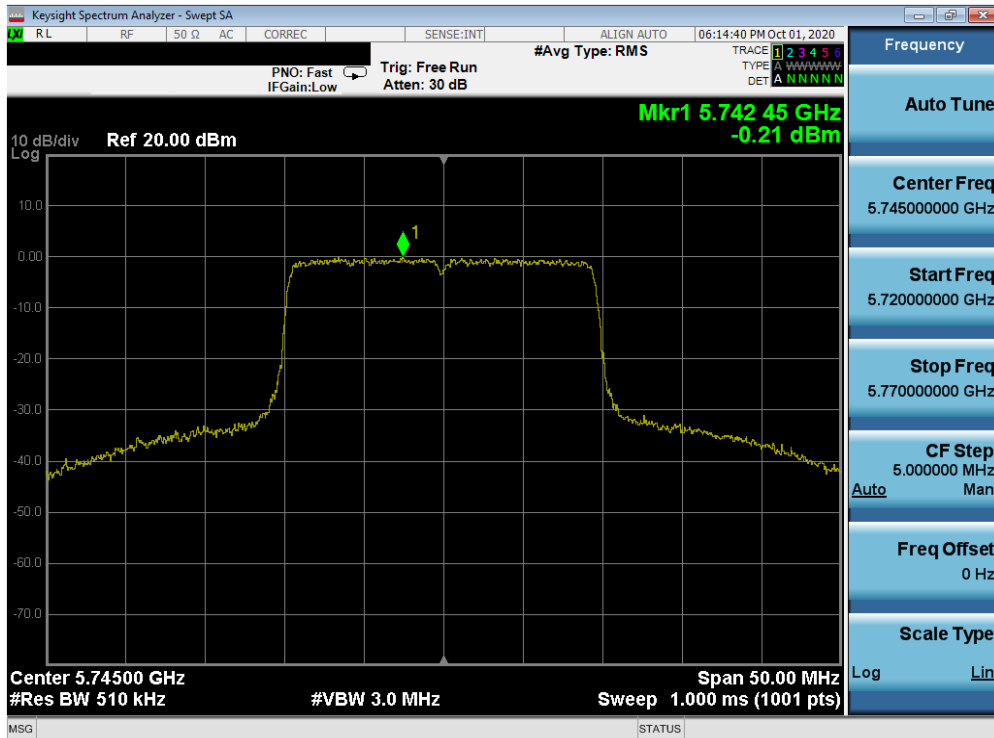


Plot 7-263. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG996U	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 191 of 307

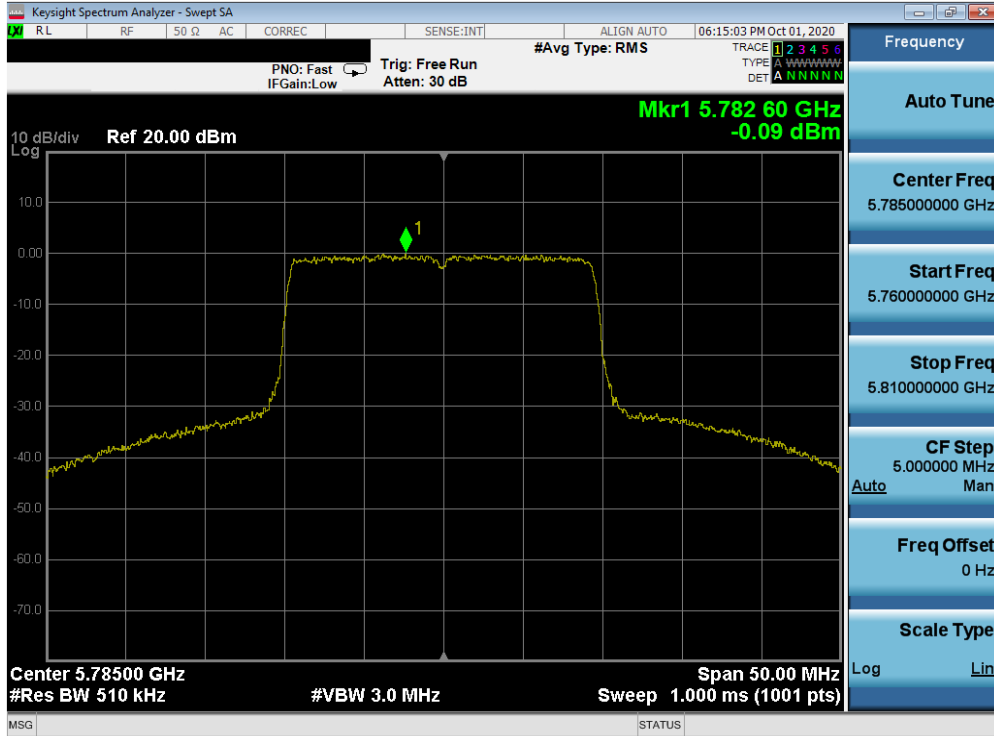


Plot 7-264. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

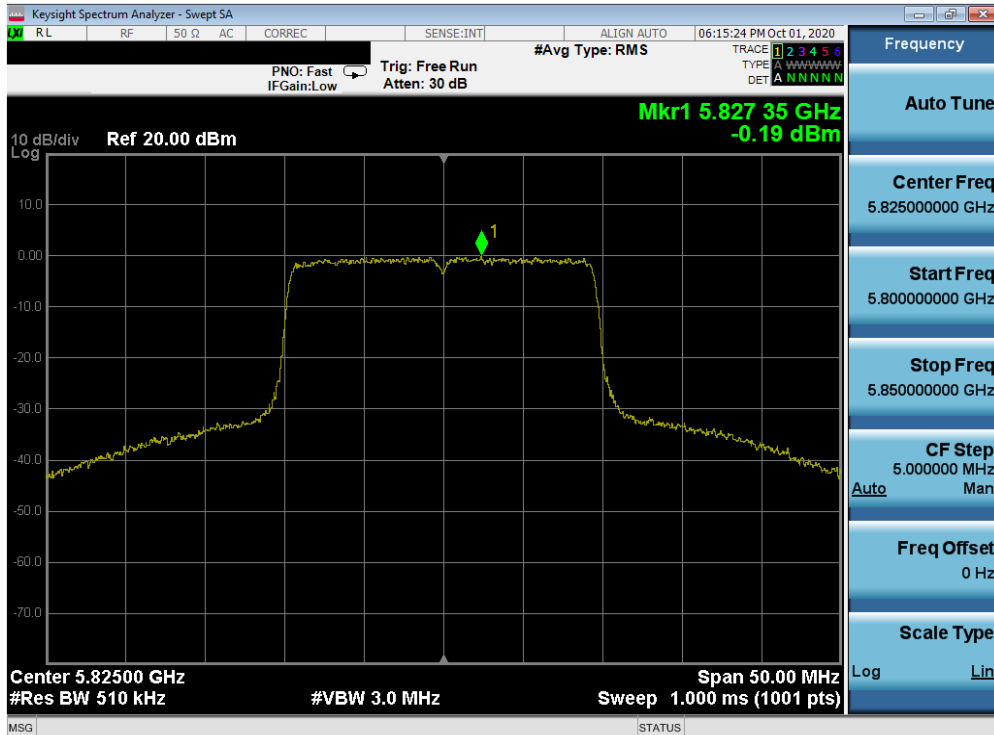


Plot 7-265. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 192 of 307

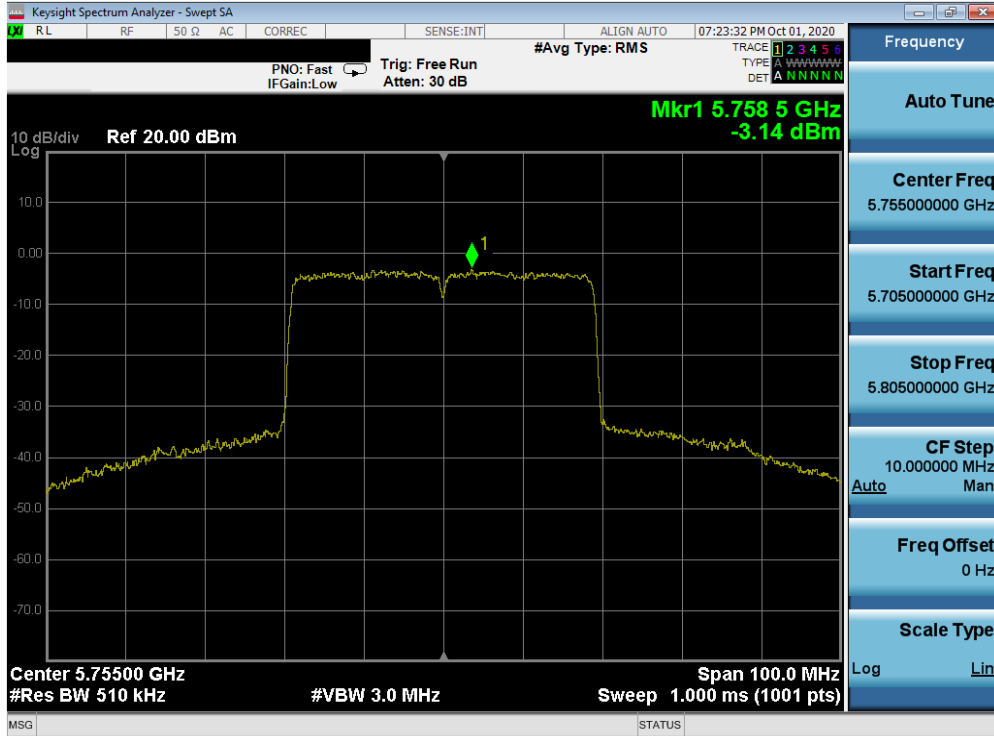


Plot 7-266. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

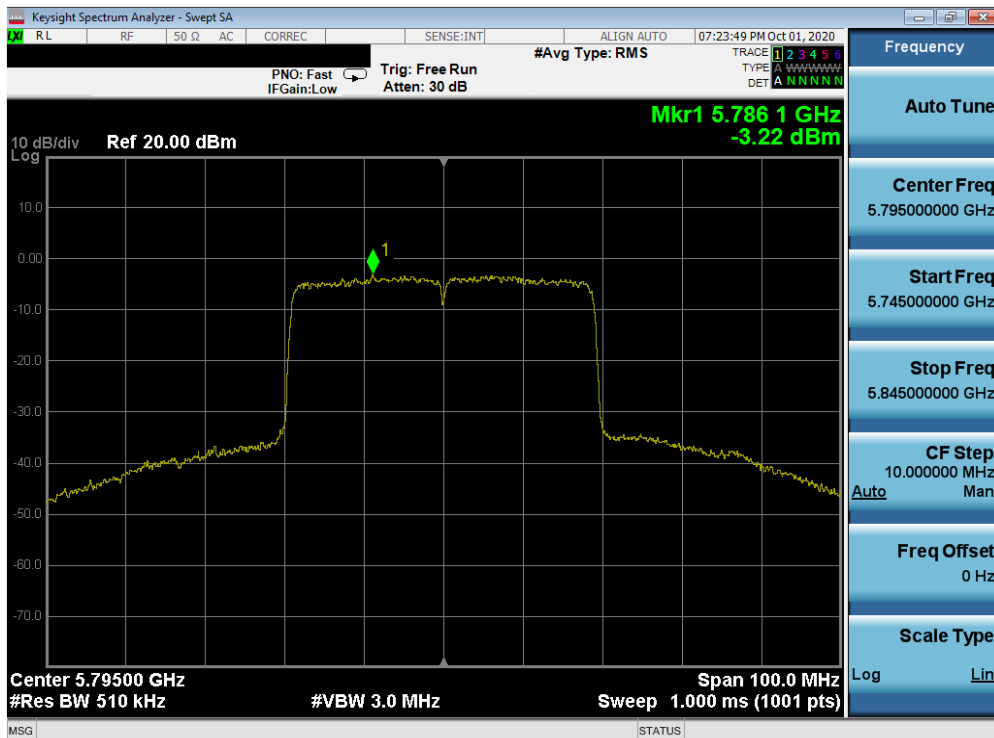


Plot 7-267. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 193 of 307

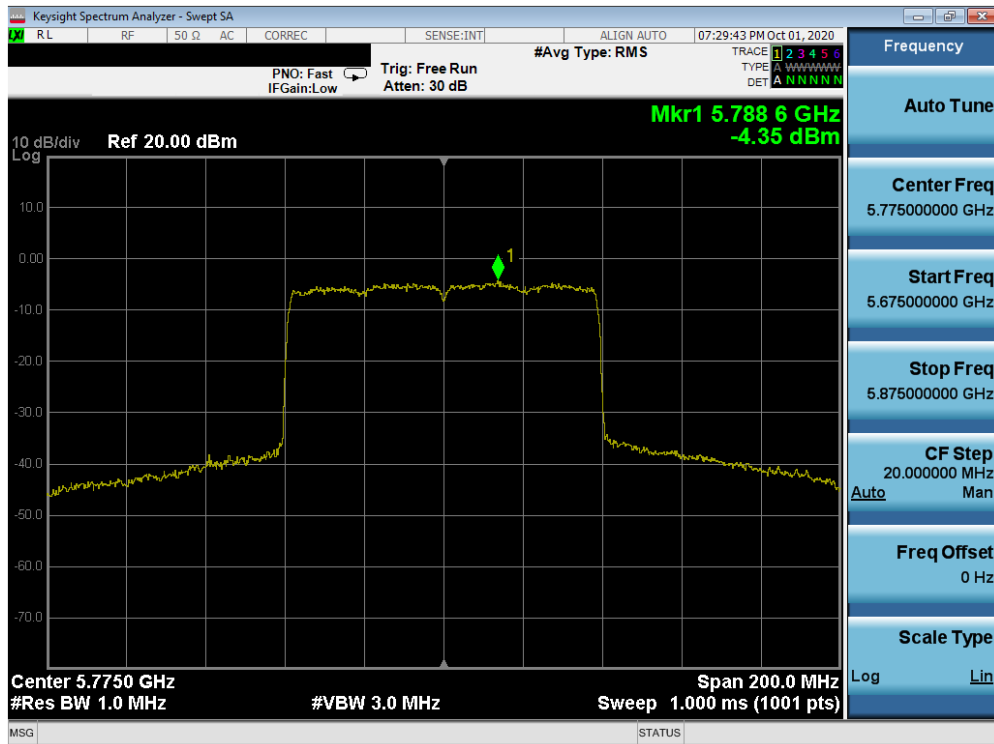


Plot 7-268. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



Plot 7-269. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

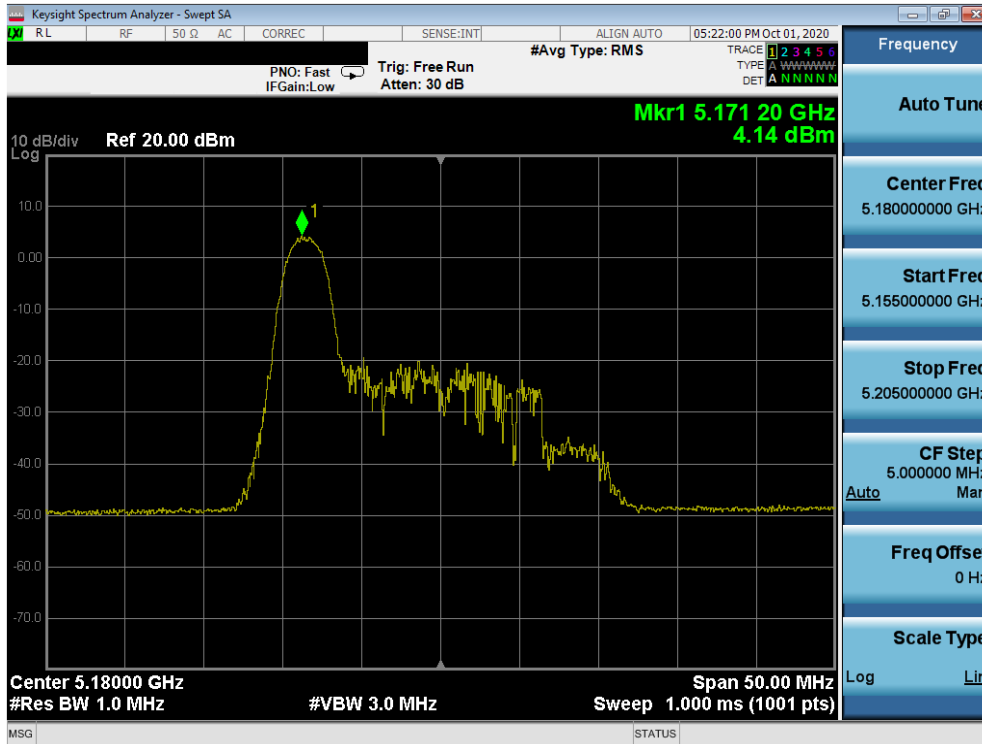
FCC ID: A3LSMG996U	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 194 of 307



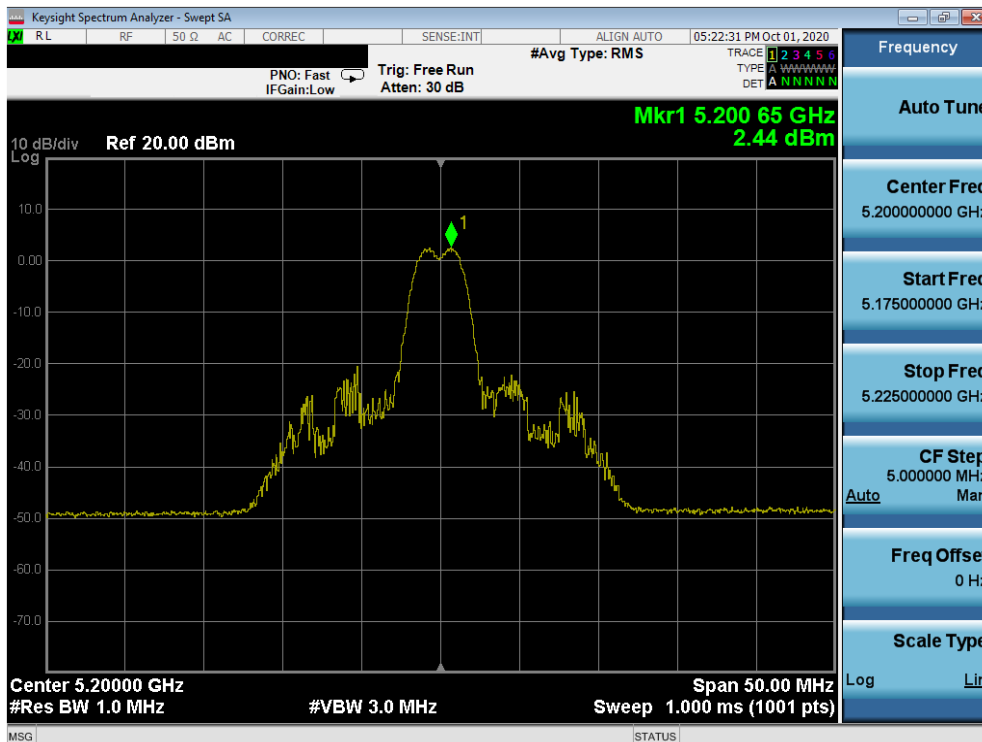
Plot 7-270. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 195 of 307

## MIMO Antenna-2 Power Spectral Density Measurements (26 Tones)



Plot 7-271. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



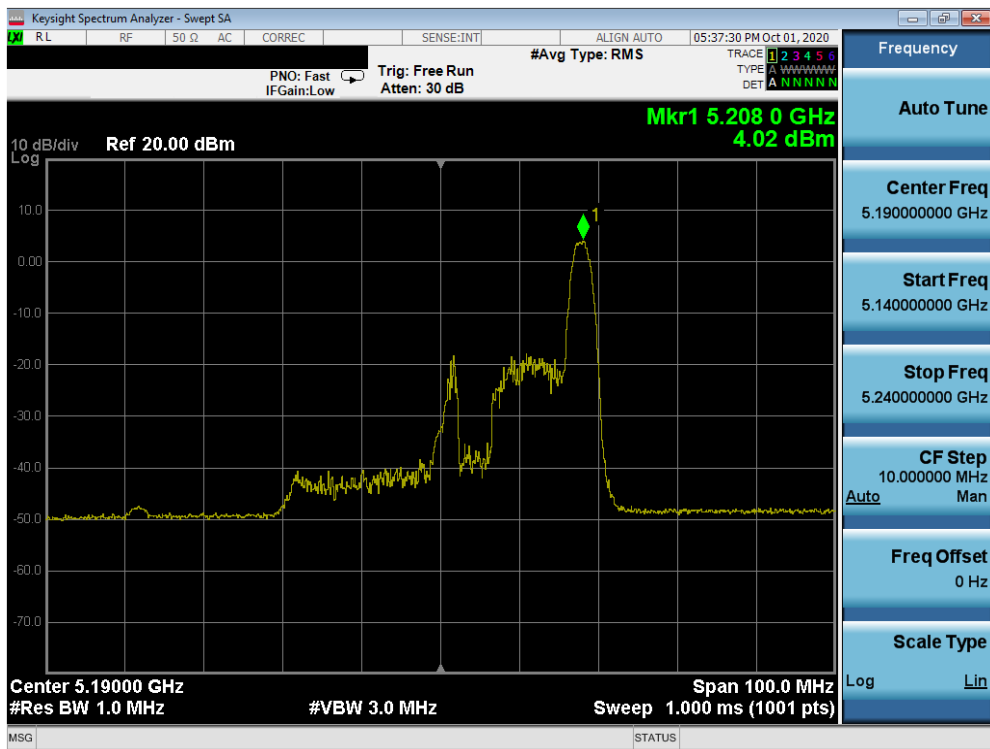
Plot 7-272. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 196 of 307



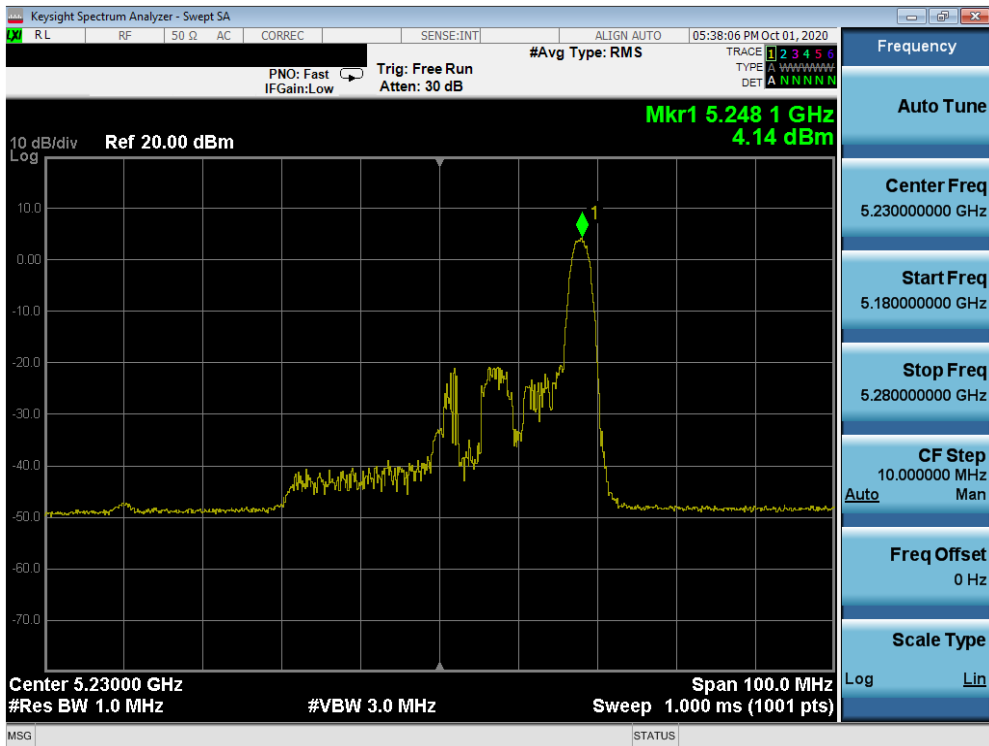


Plot 7-273. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

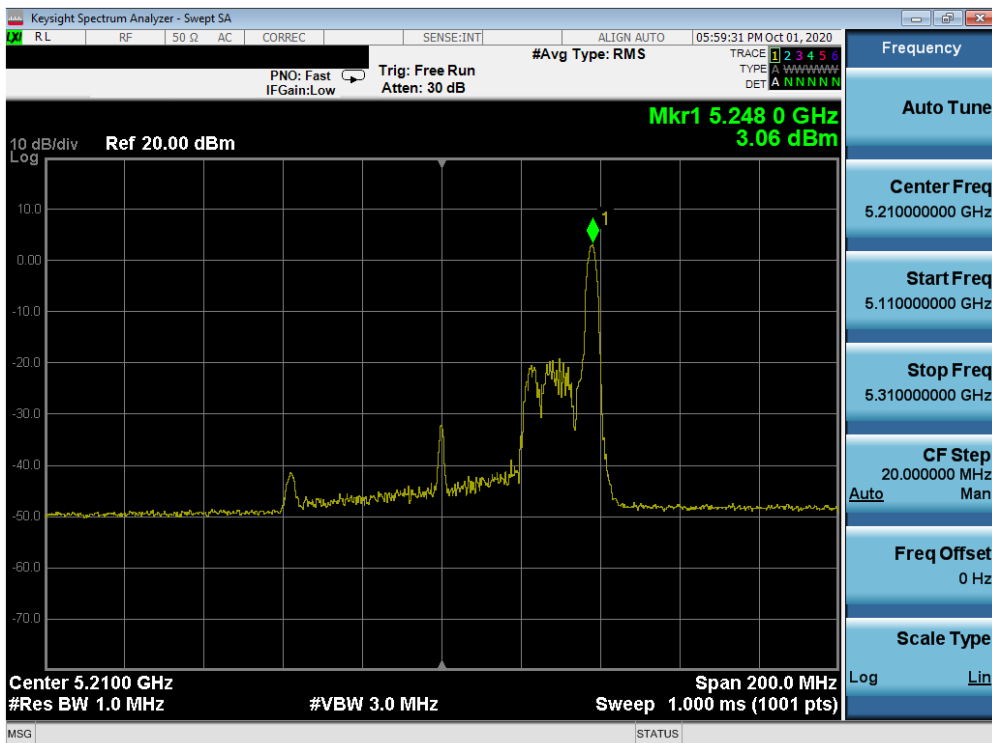


Plot 7-274. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 197 of 307

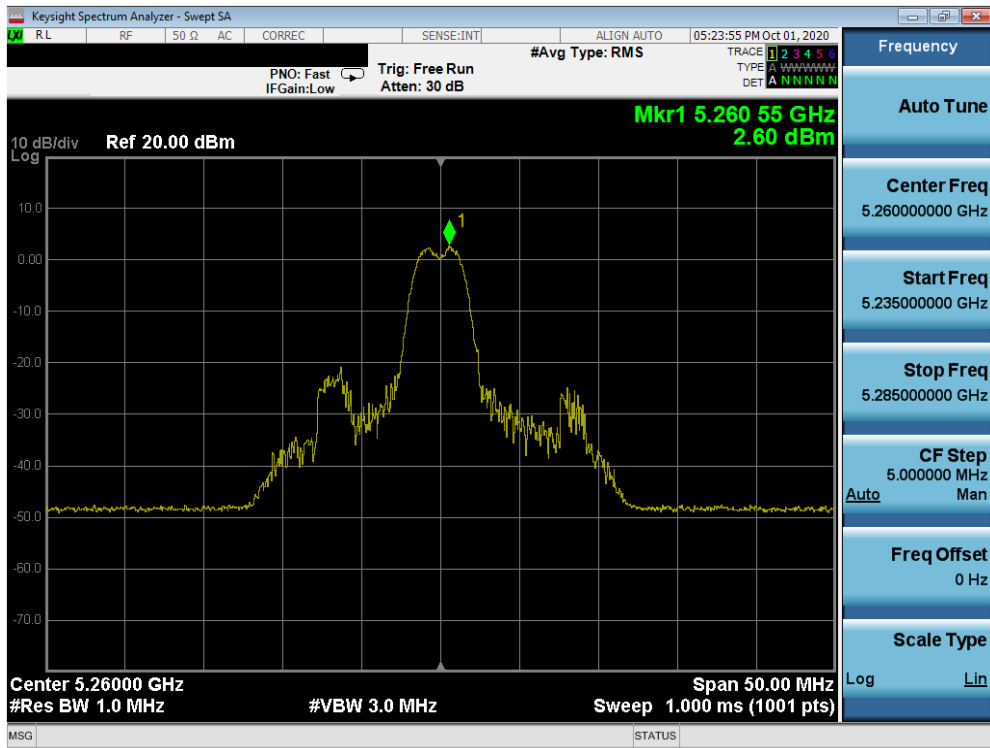


Plot 7-275. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

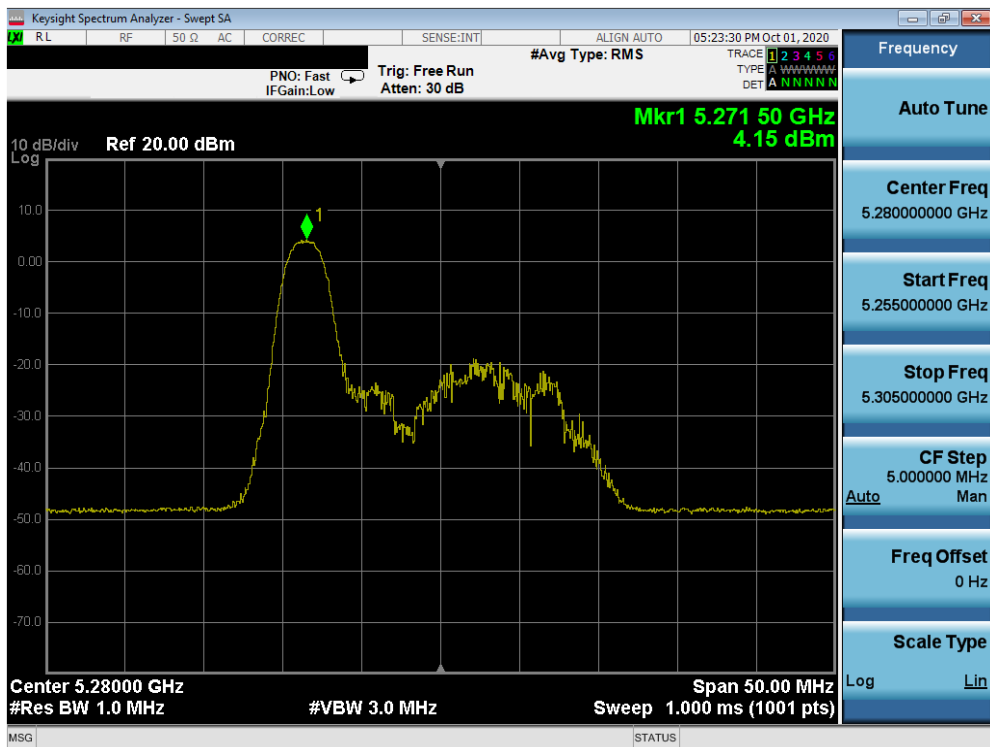


Plot 7-276. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 198 of 307

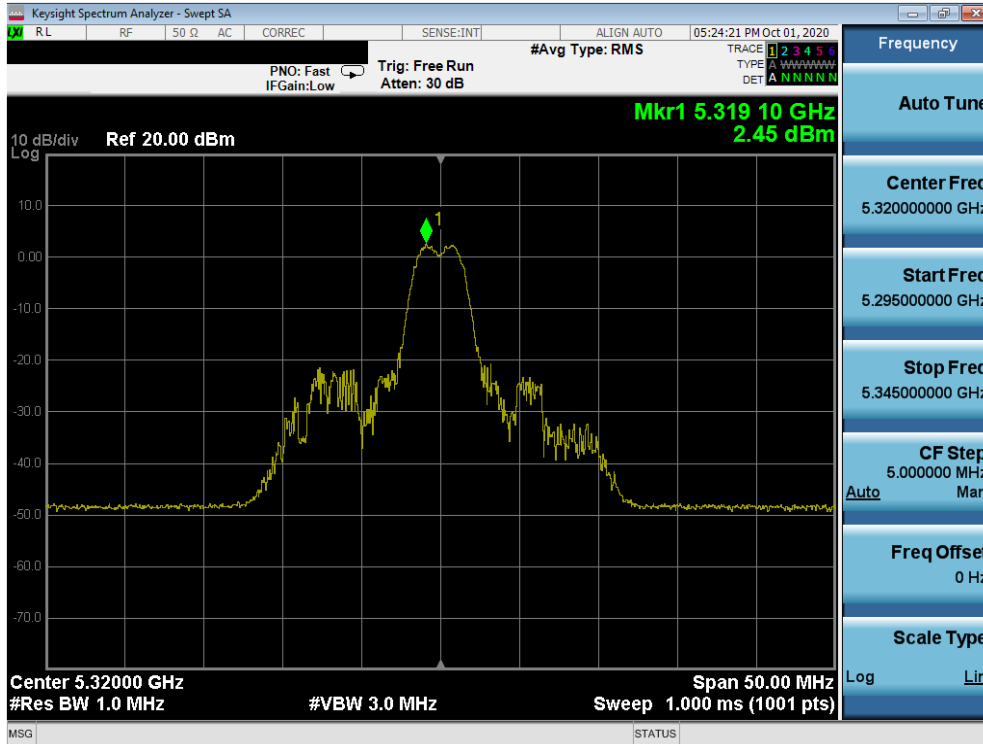


Plot 7-277. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

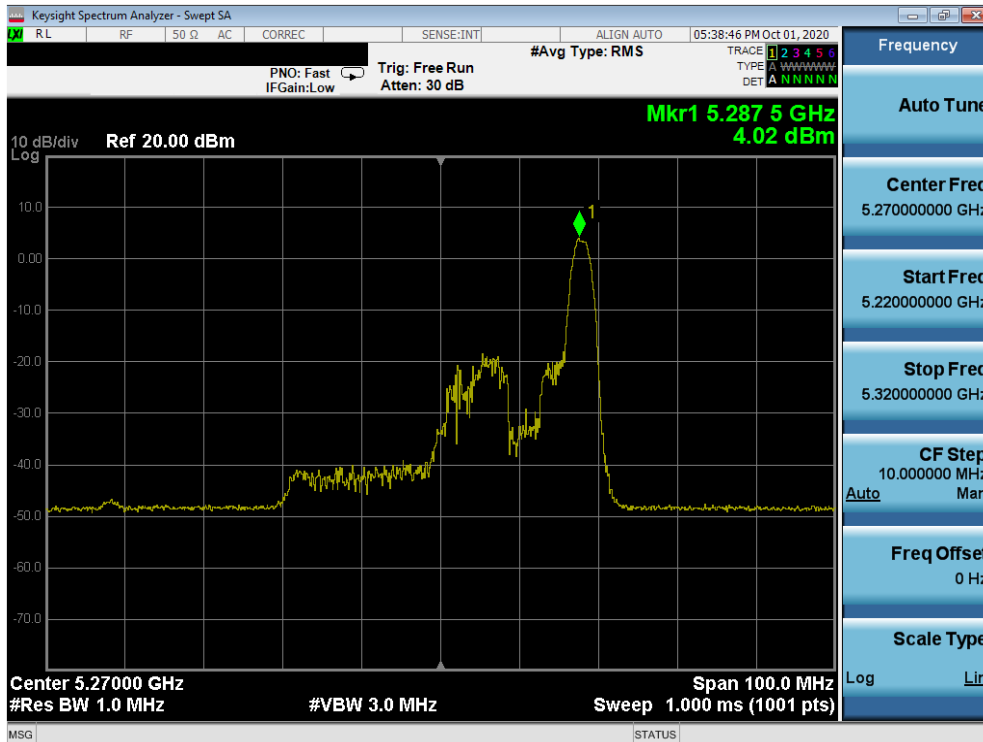


Plot 7-278. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG996U	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 199 of 307

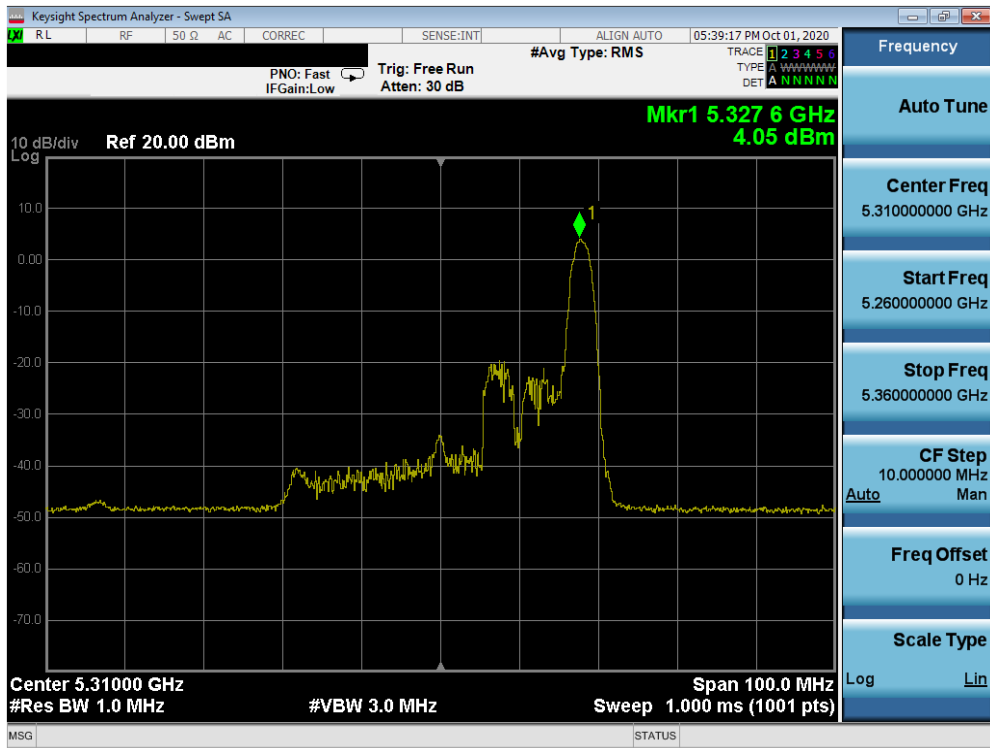


Plot 7-279. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

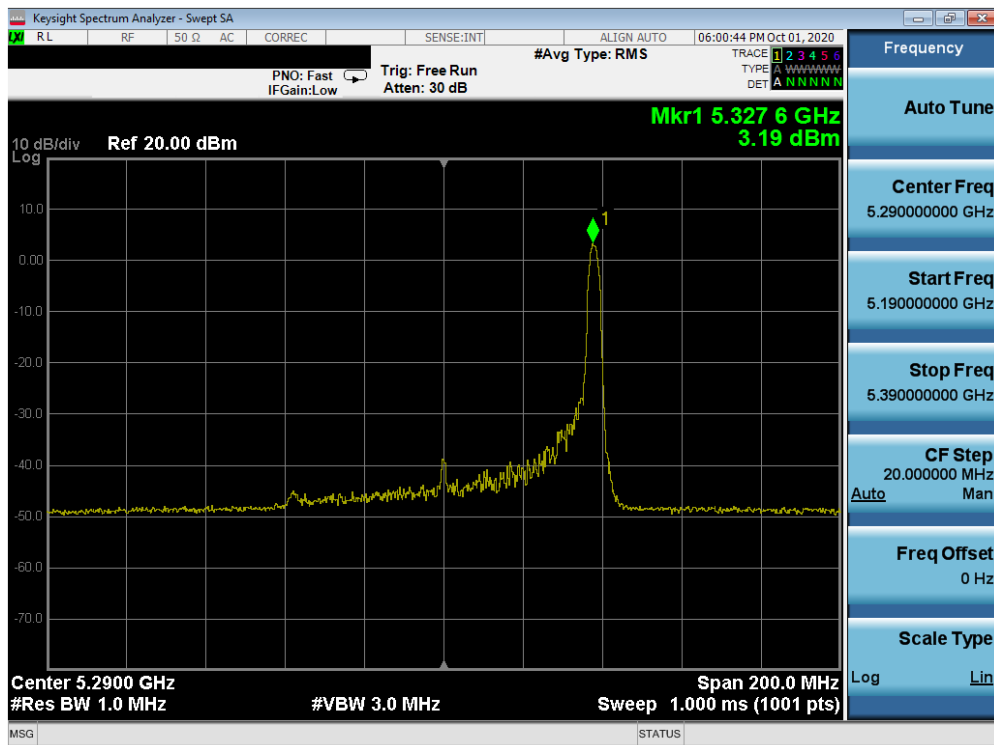


Plot 7-280. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 200 of 307

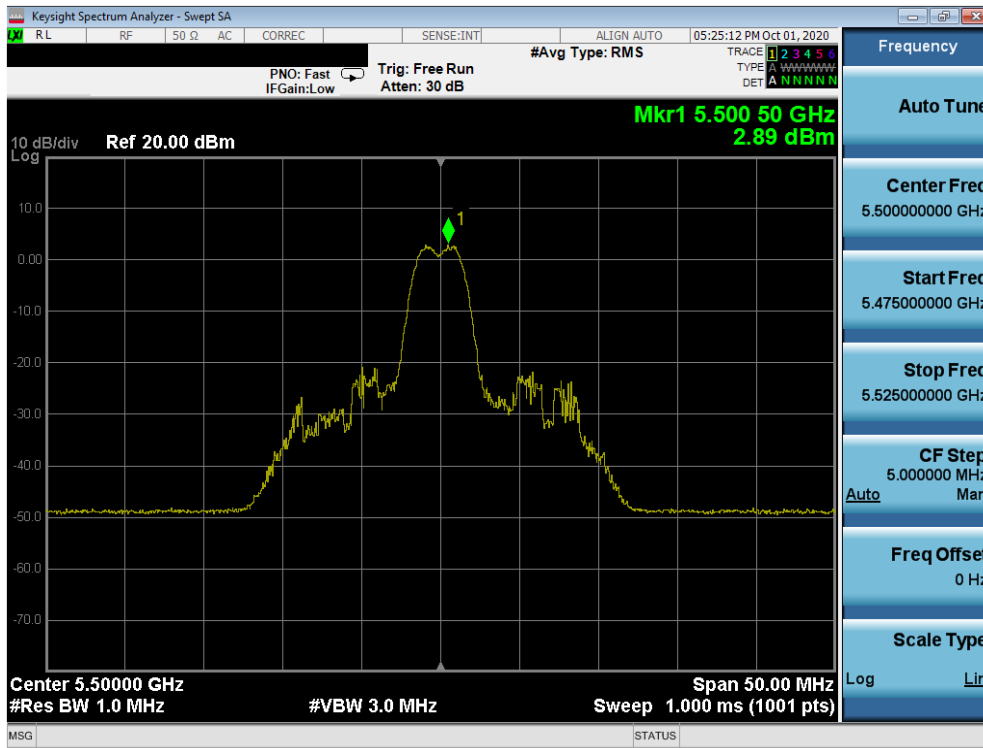


Plot 7-281. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

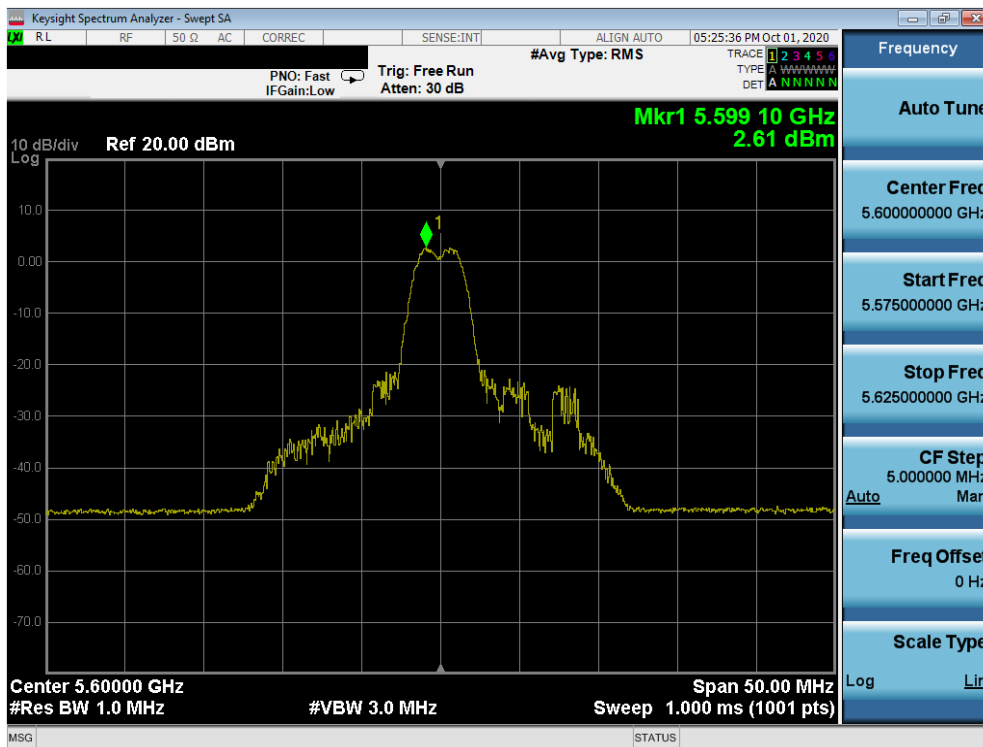


Plot 7-282. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 201 of 307

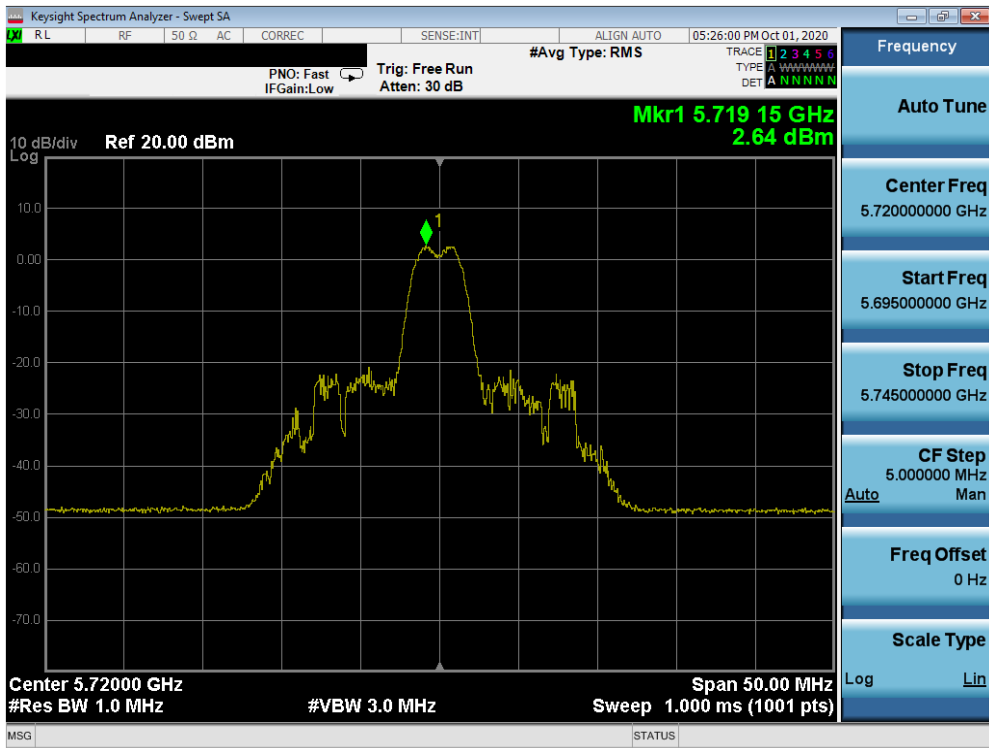


Plot 7-283. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

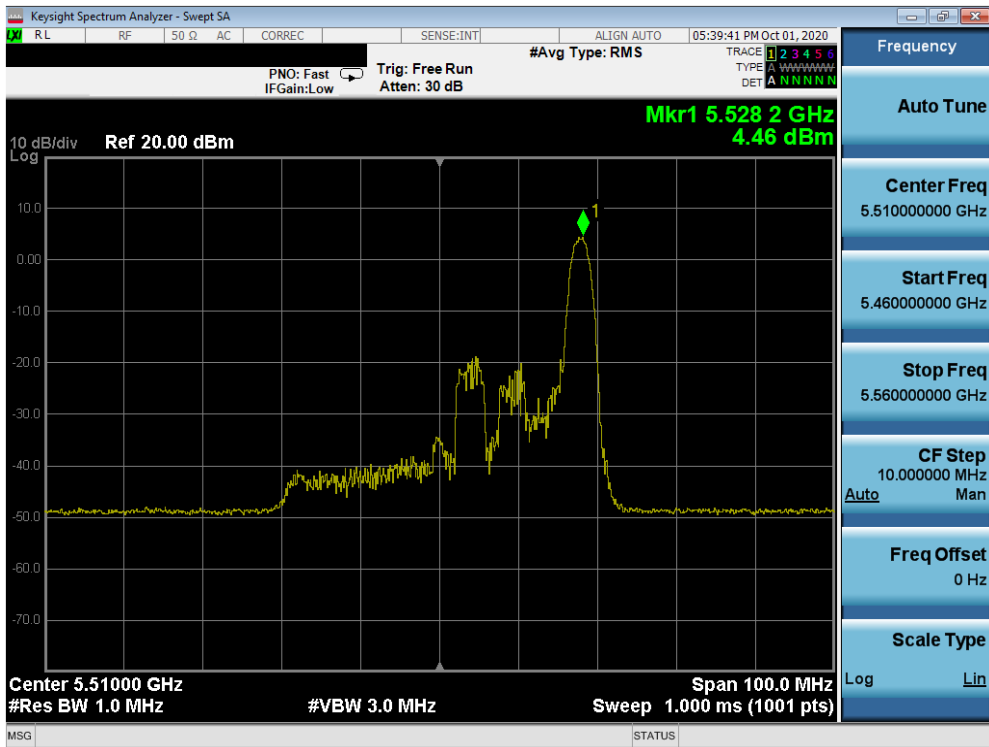


Plot 7-284. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 202 of 307

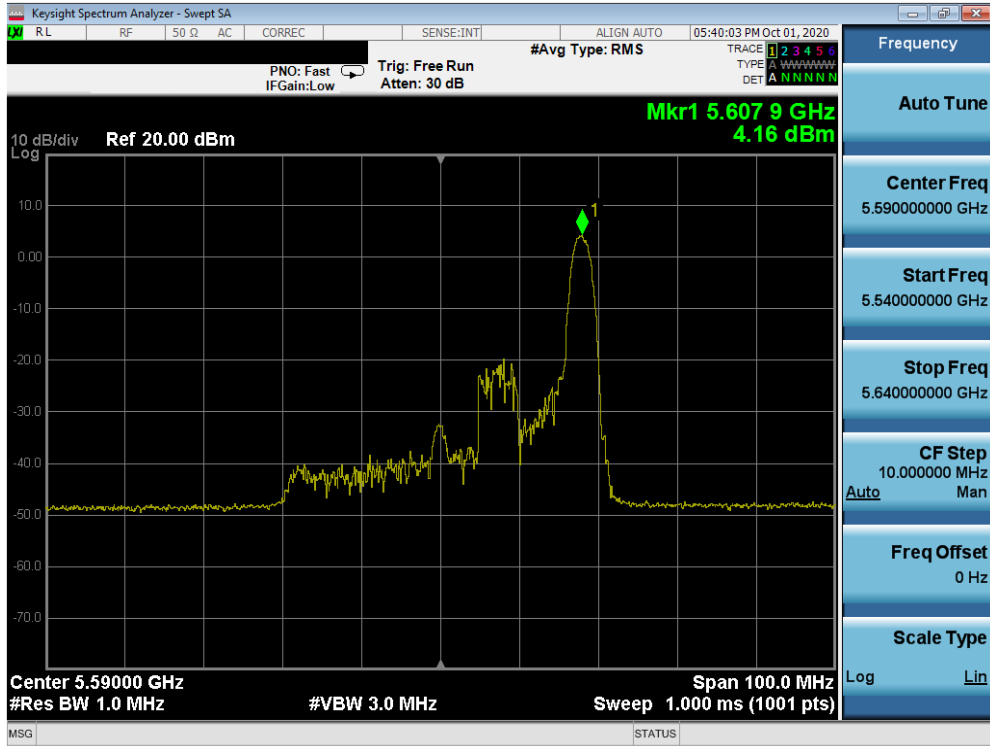


Plot 7-285. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

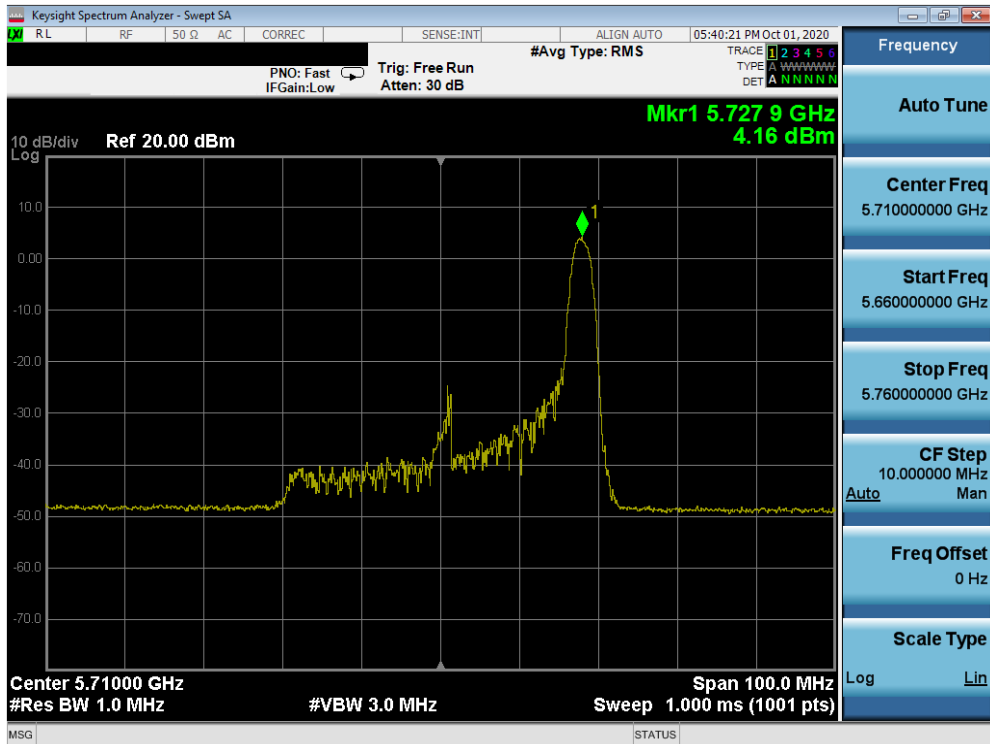


Plot 7-286. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)


FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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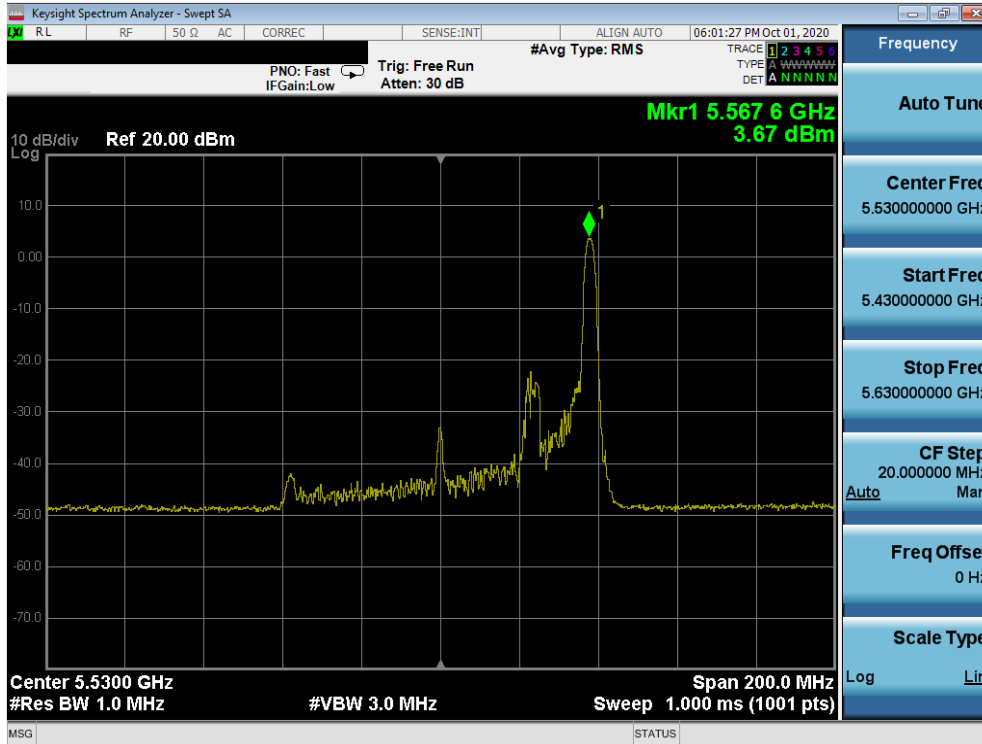
Plot 7-287. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



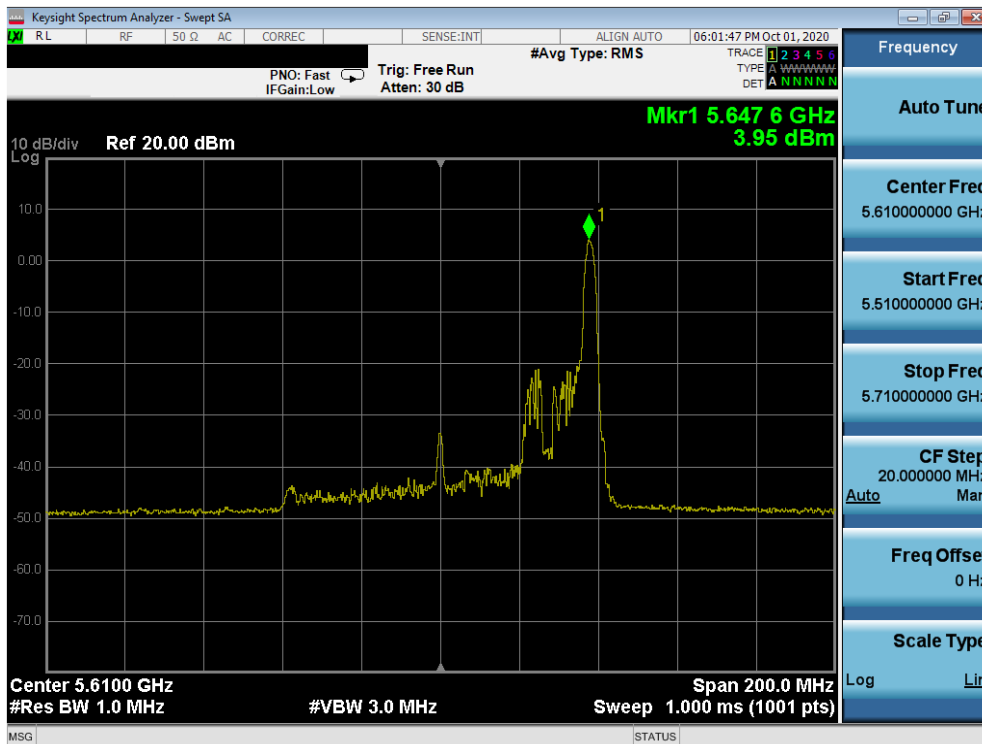
Plot 7-288. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 204 of 307



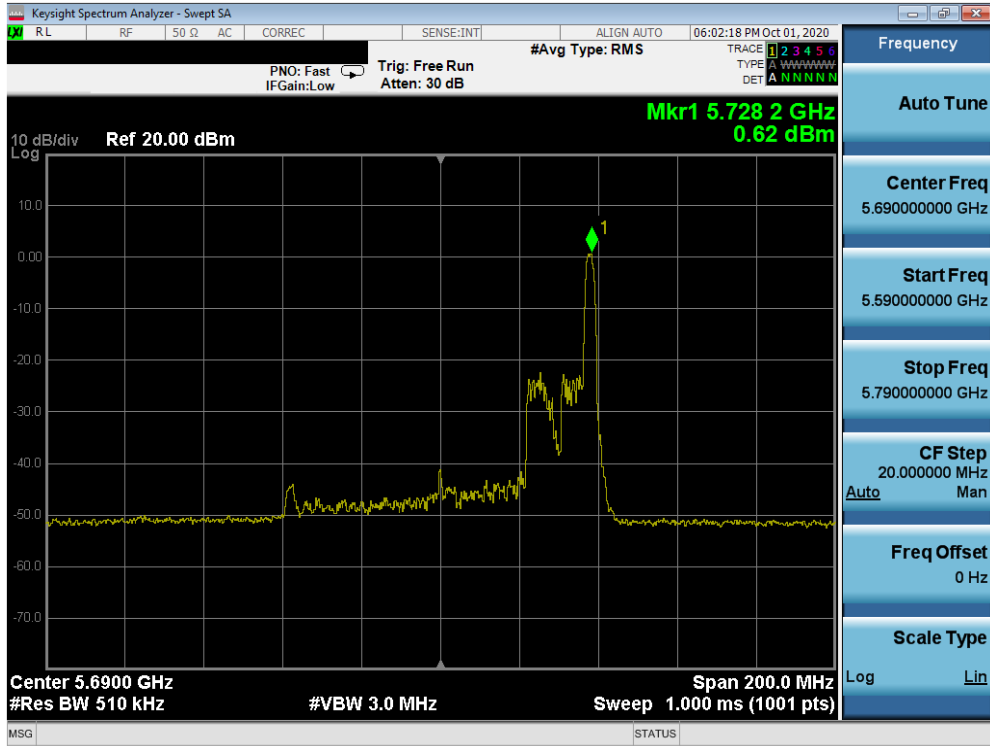


Plot 7-289. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

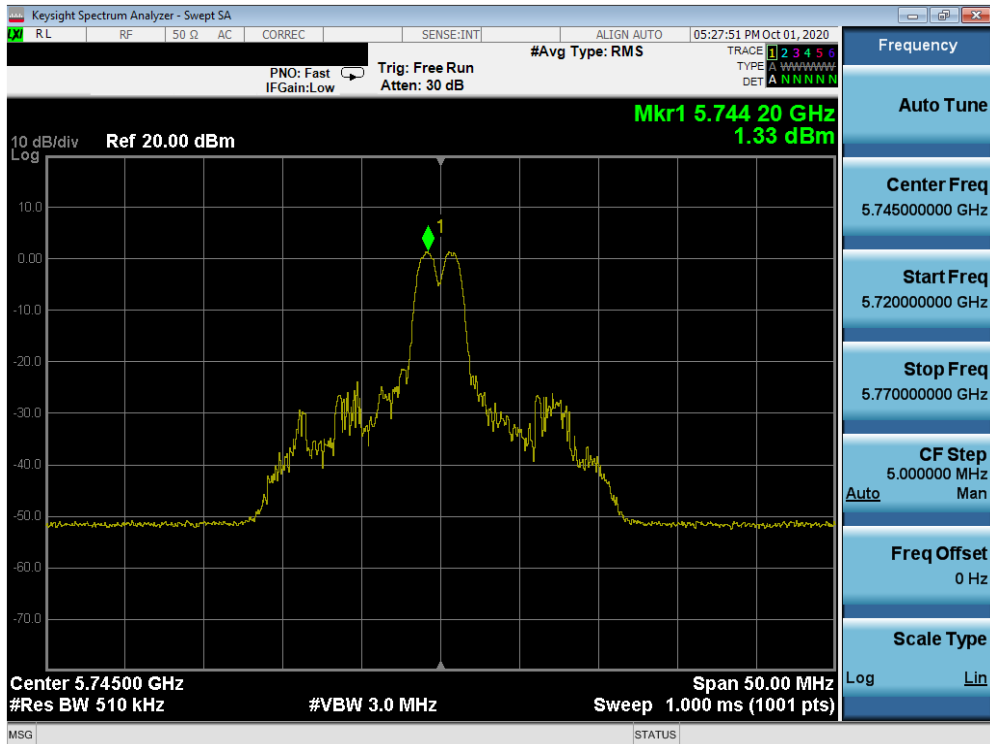


Plot 7-290. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG996U	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-291. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-292. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-09.A3L	Test Dates: 09/15 - 12/01/2020	EUT Type: Portable Handset		Page 206 of 307