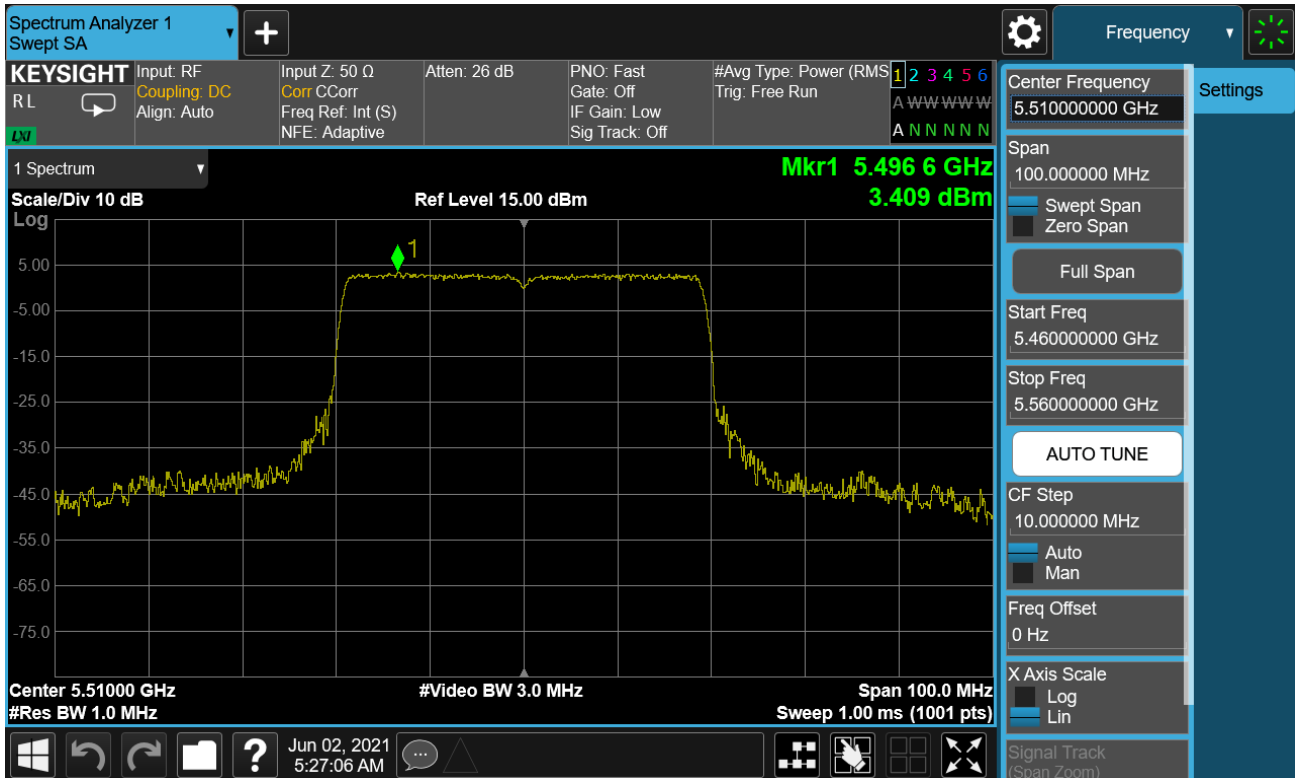
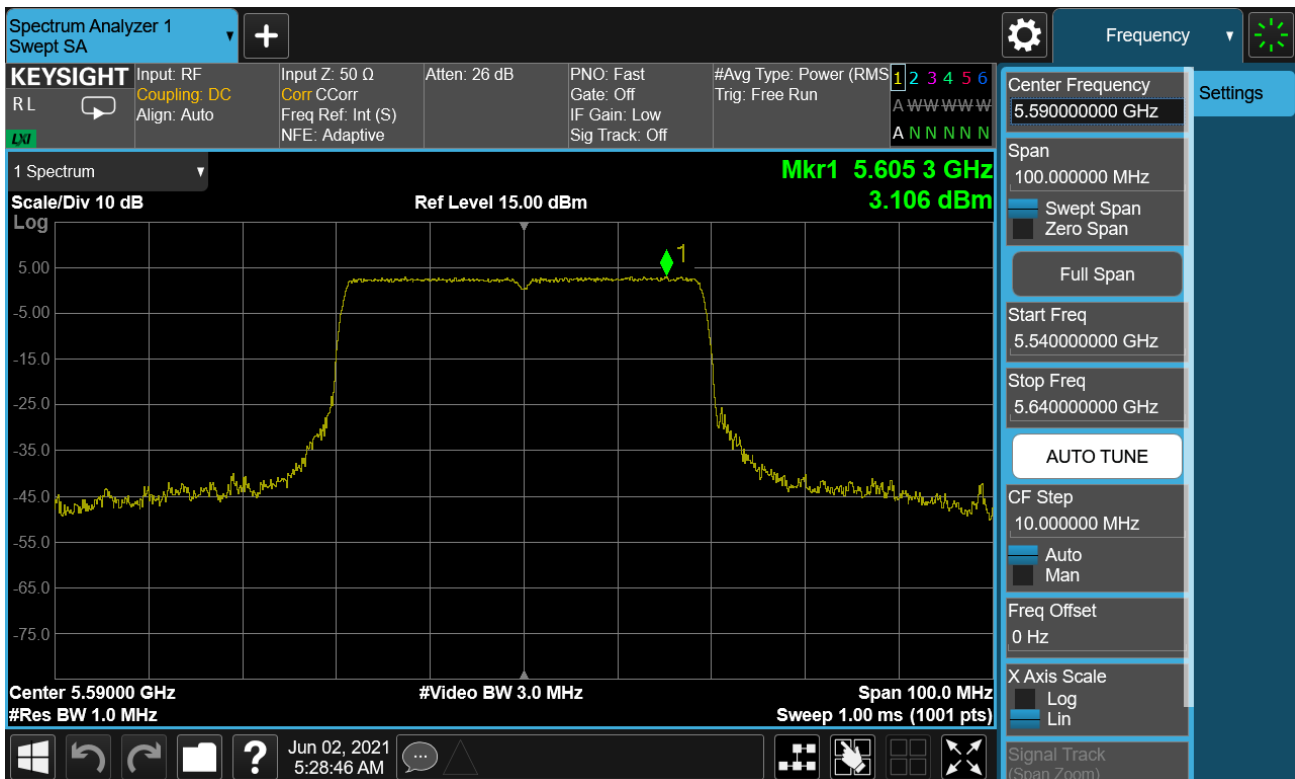


FCC ID: C3K1995 IC: 3048A-1995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 136 of 341

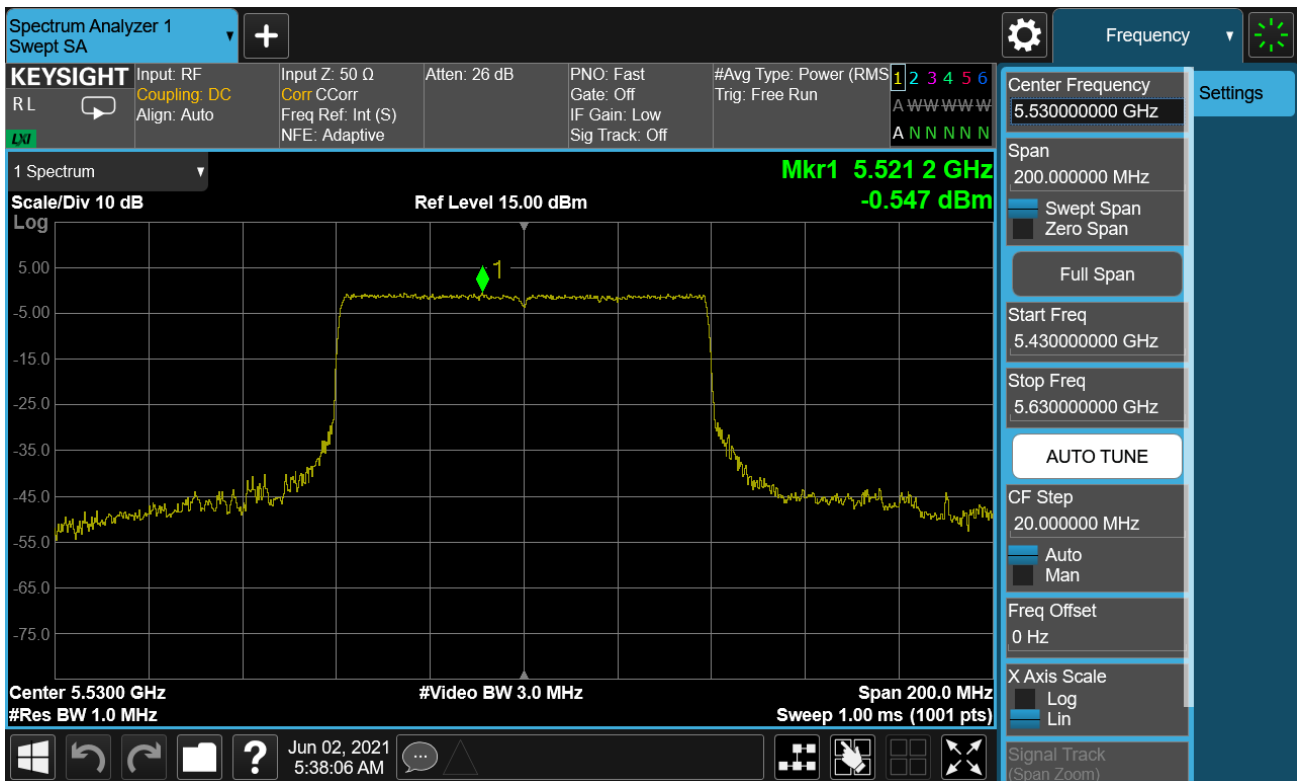
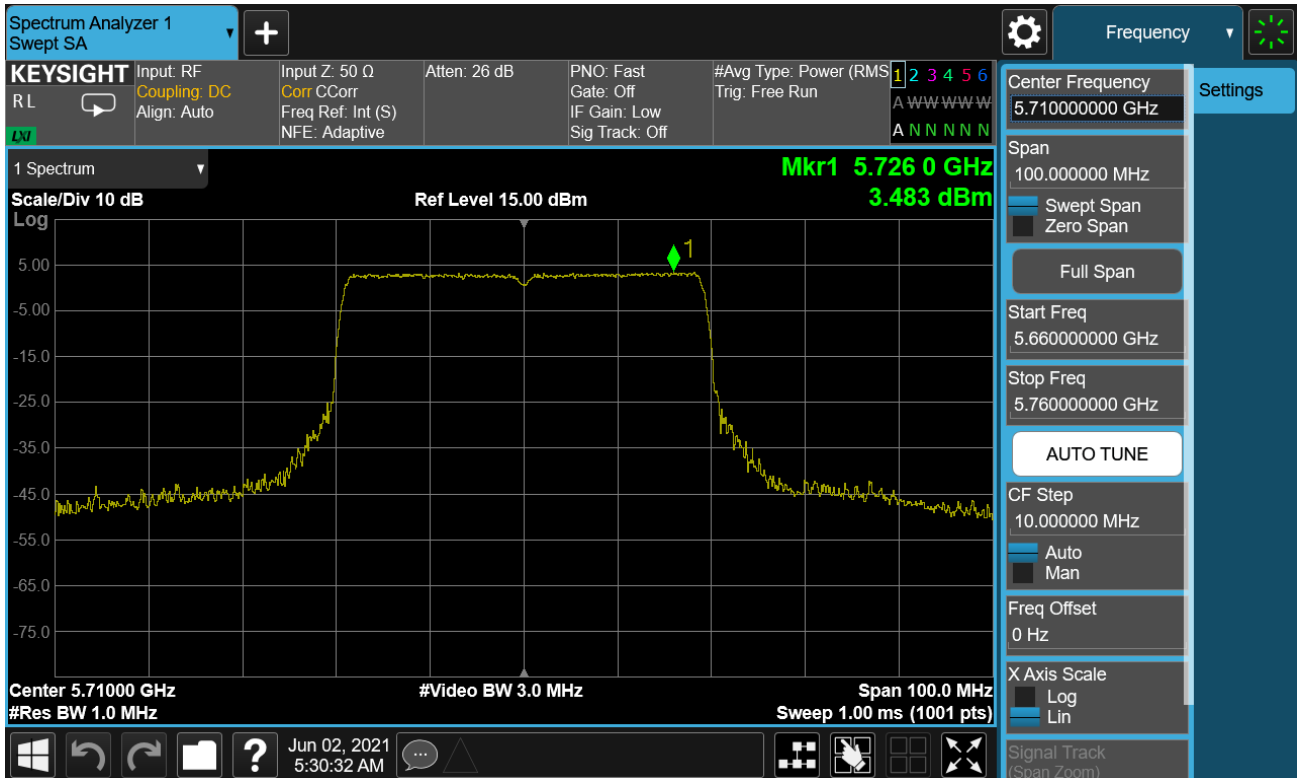


Plot 7-173. Power Spectral Density Plot SISO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

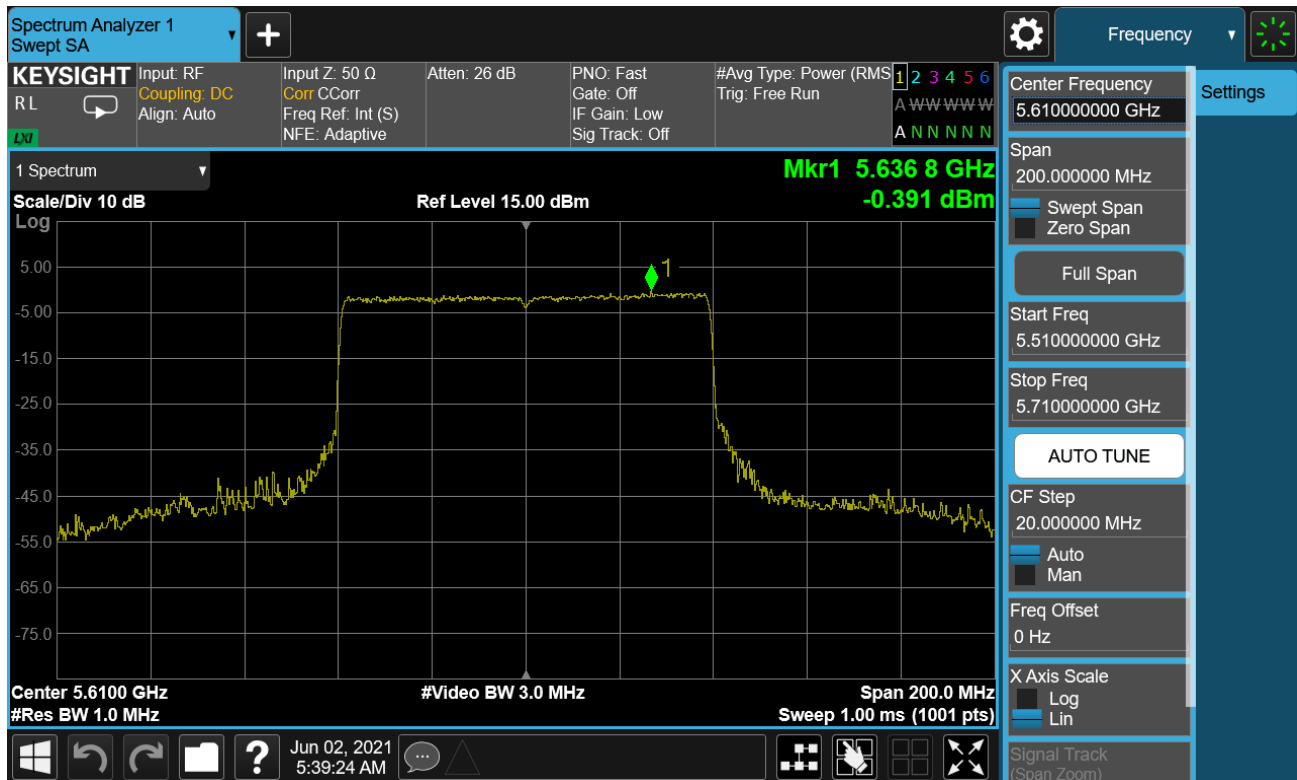


Plot 7-174. Power Spectral Density Plot SISO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

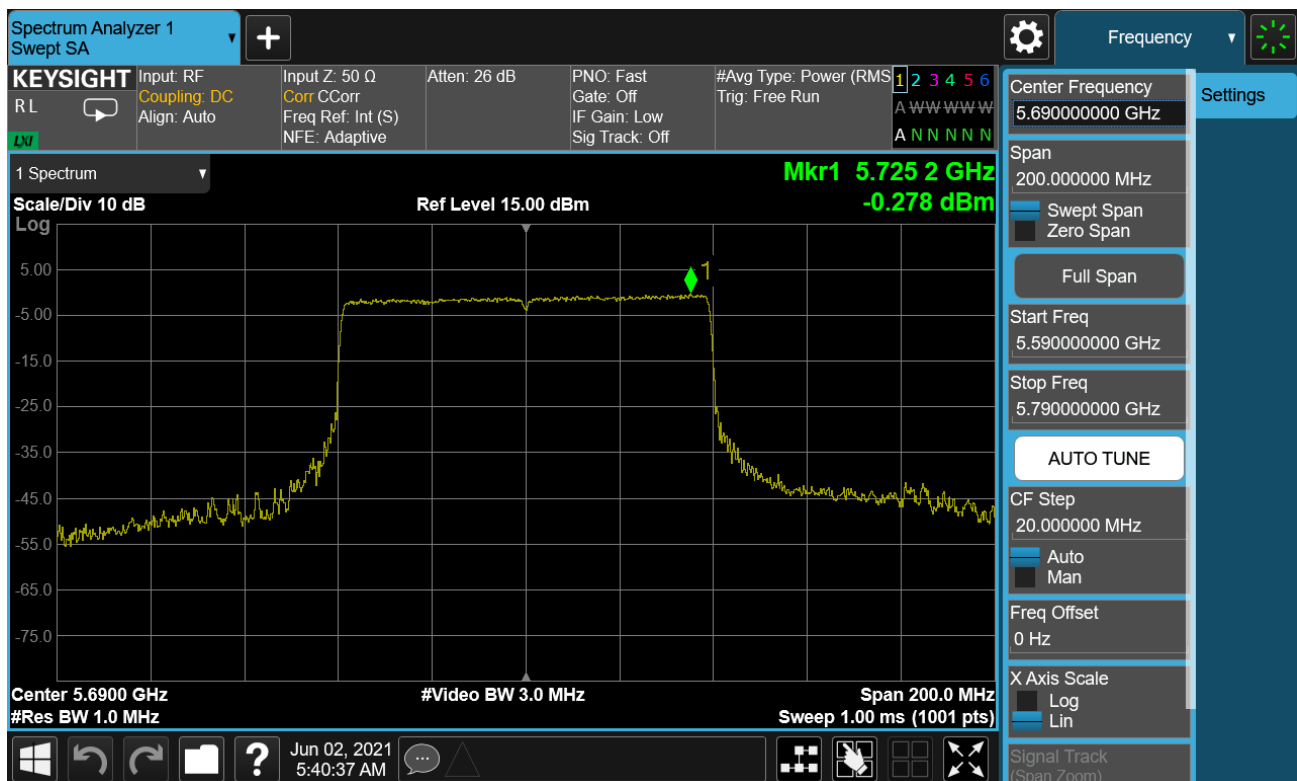
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 137 of 341



FCC ID: C3K1995 IC: 3048A-1995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 138 of 341

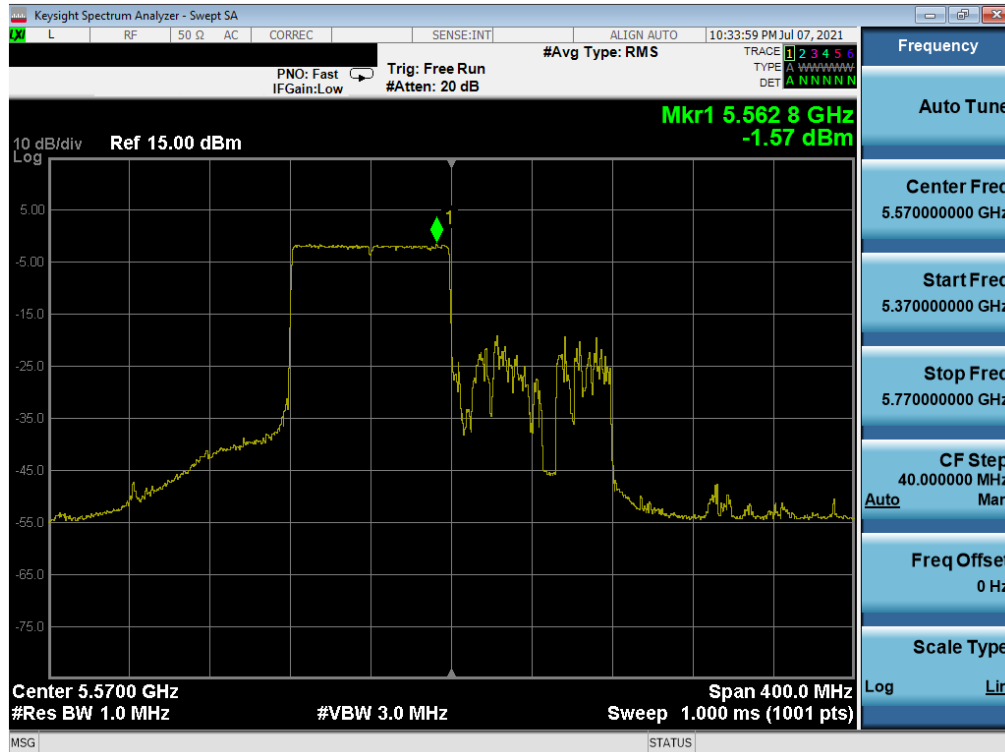


Plot 7-177. Power Spectral Density Plot SISO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

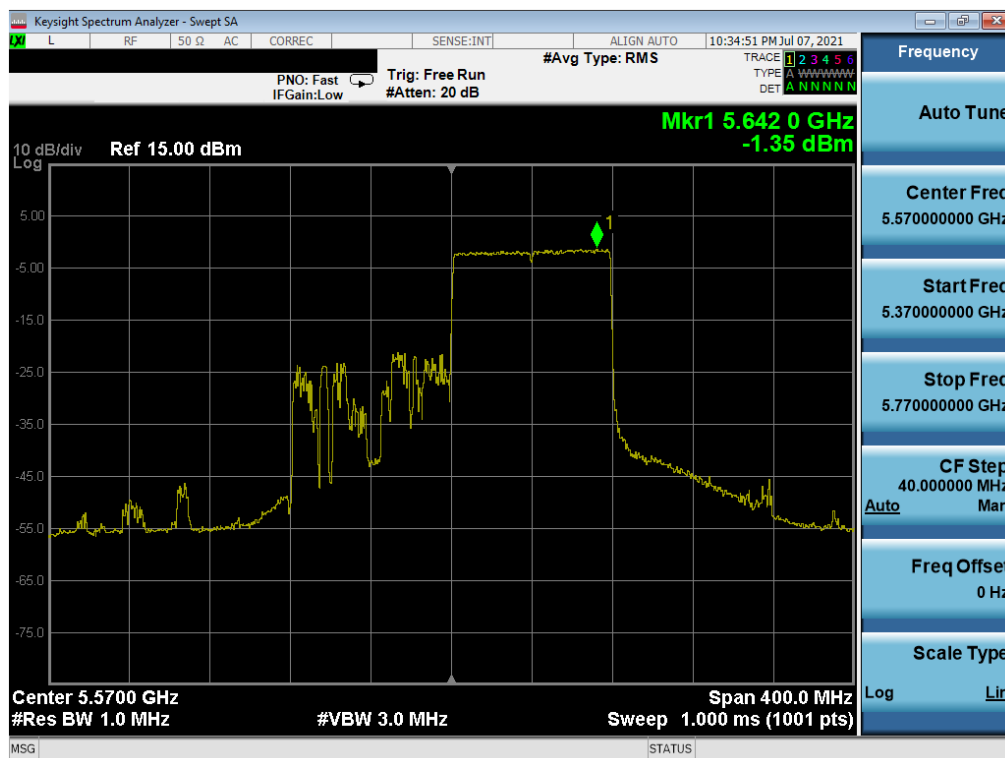


Plot 7-178. Power Spectral Density Plot SISO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 139 of 341



Plot 7-179. Power Spectral Density Plot SISO SOUTH (160MHz BW (L) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)



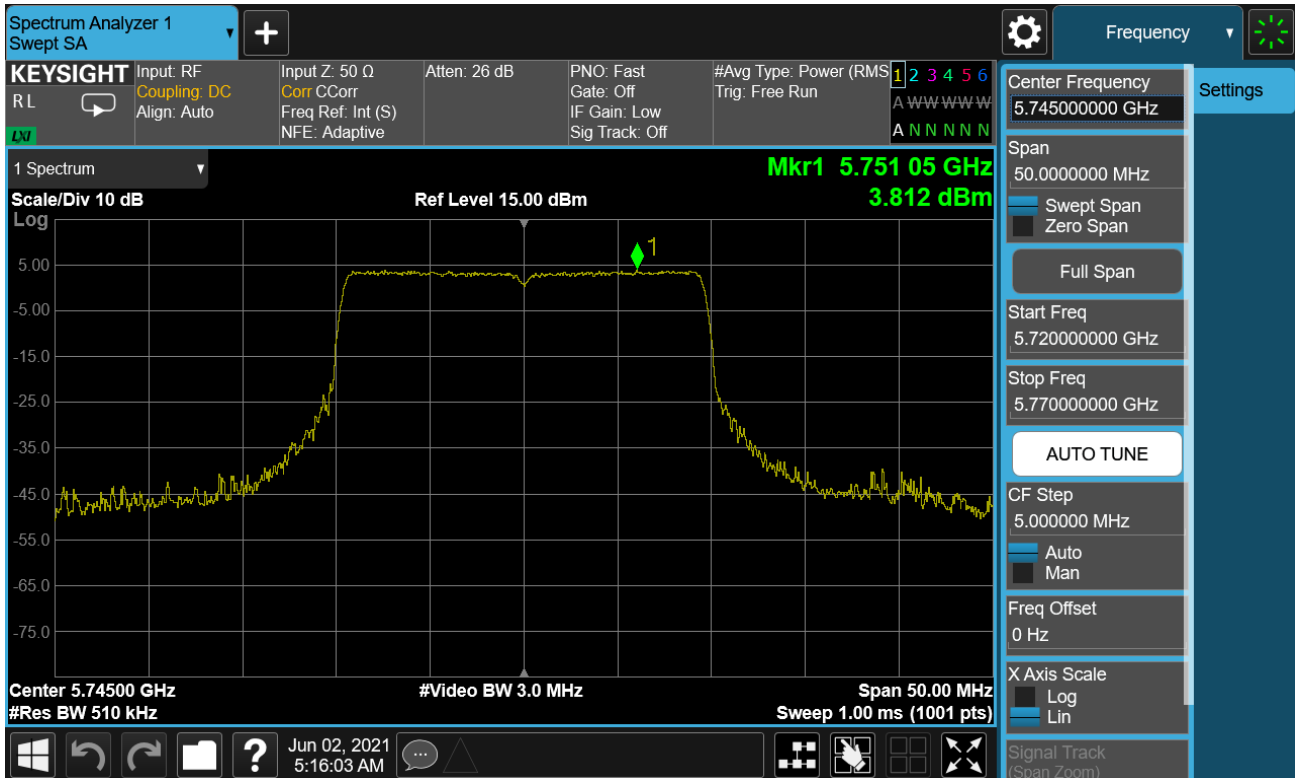
Plot 7-180. Power Spectral Density Plot SISO SOUTH (160MHz BW (U) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 140 of 341

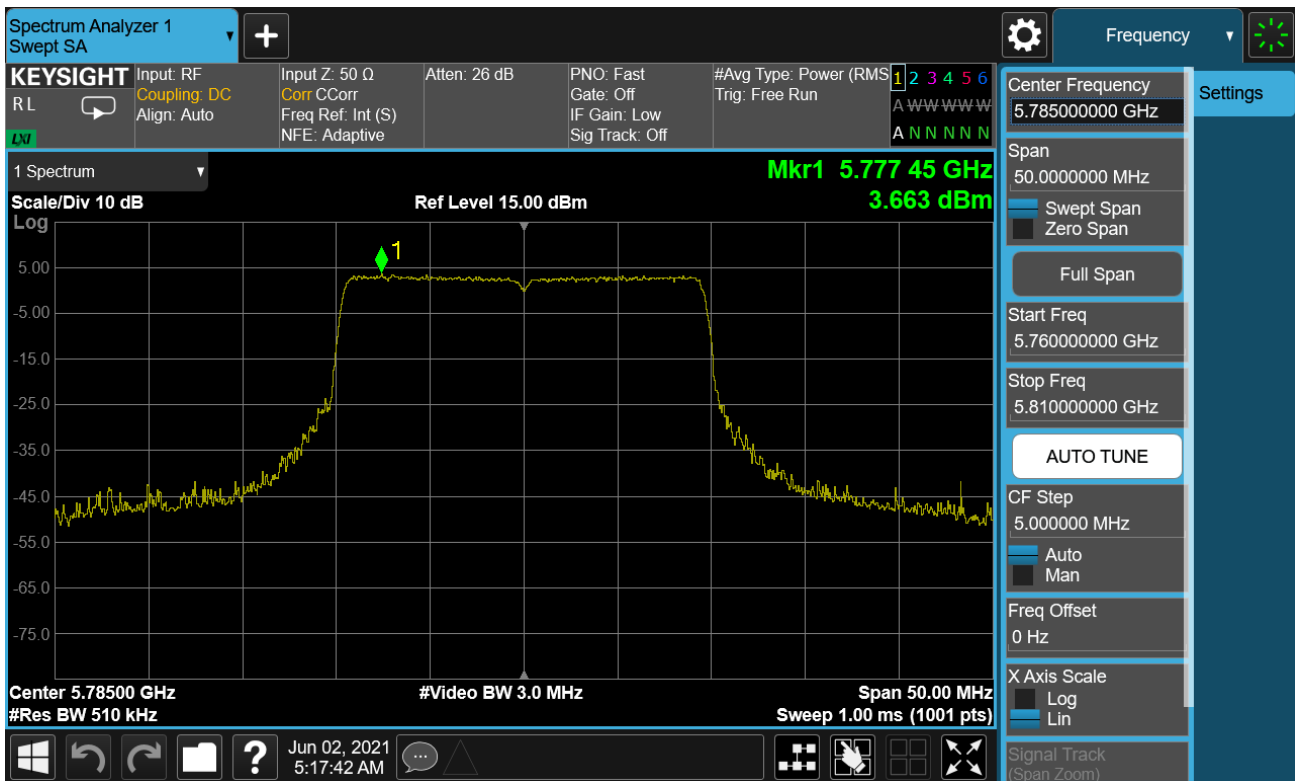
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	3.81	30.00	-26.19
	5785	157	ax (20MHz)	242T	MCS0	3.66	30.00	-26.34
	5825	165	ax (20MHz)	242T	MCS0	3.21	30.00	-26.79
	5755	151	ax (40MHz)	484T	MCS0	0.61	30.00	-29.39
	5795	159	ax (40MHz)	484T	MCS0	0.11	30.00	-29.89
	5775	155	ax (80MHz)	996T	MCS0	-3.41	30.00	-33.41

Table 7-96. Band 3 Conducted Power Spectral Density Measurements SISO SOUTH (Full Tones)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 141 of 341

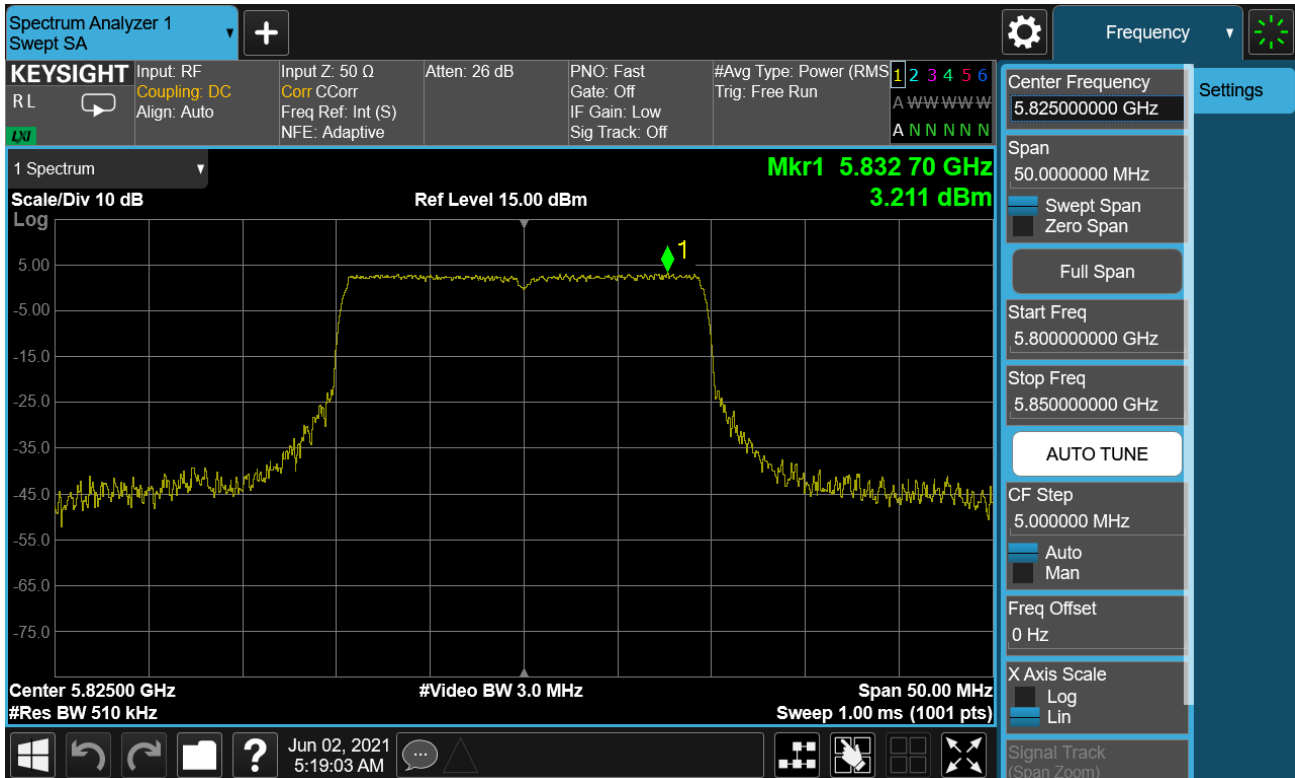


Plot 7-181. Power Spectral Density Plot SISO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

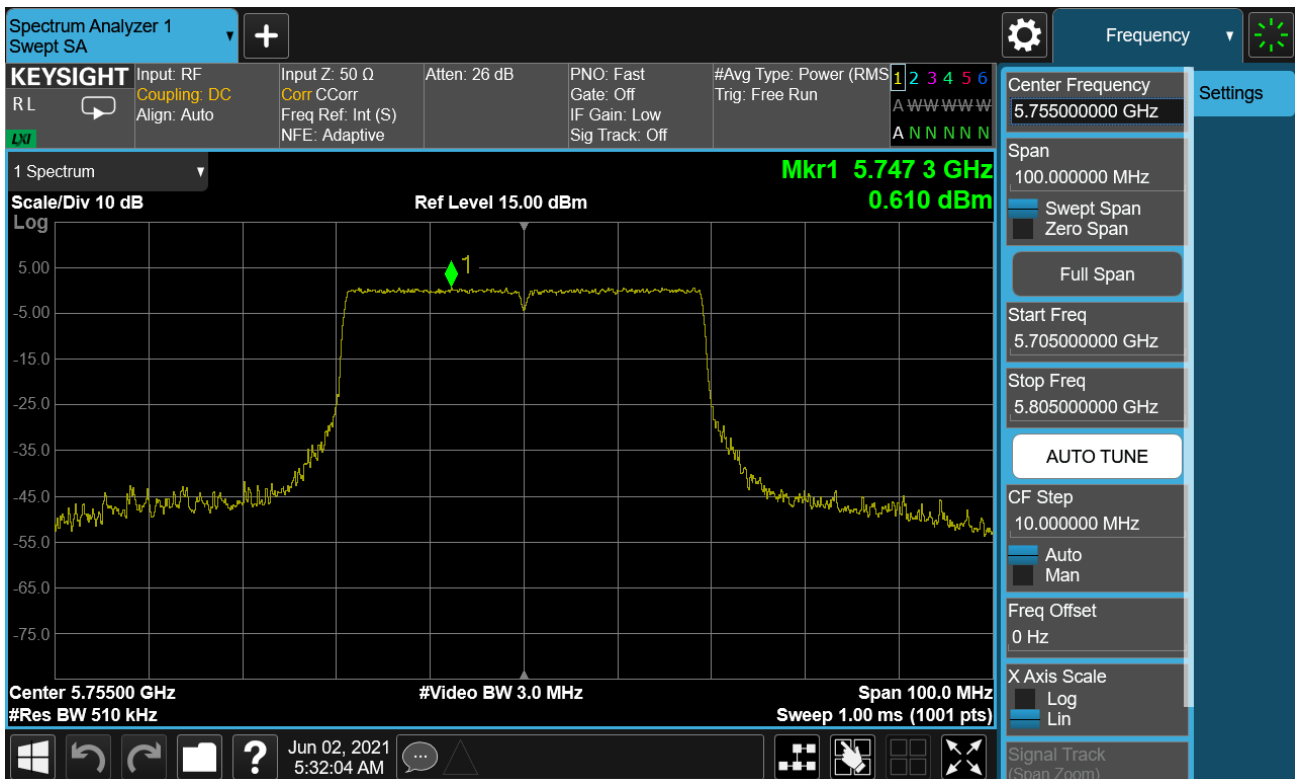


Plot 7-182. Power Spectral Density Plot SISO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 142 of 341

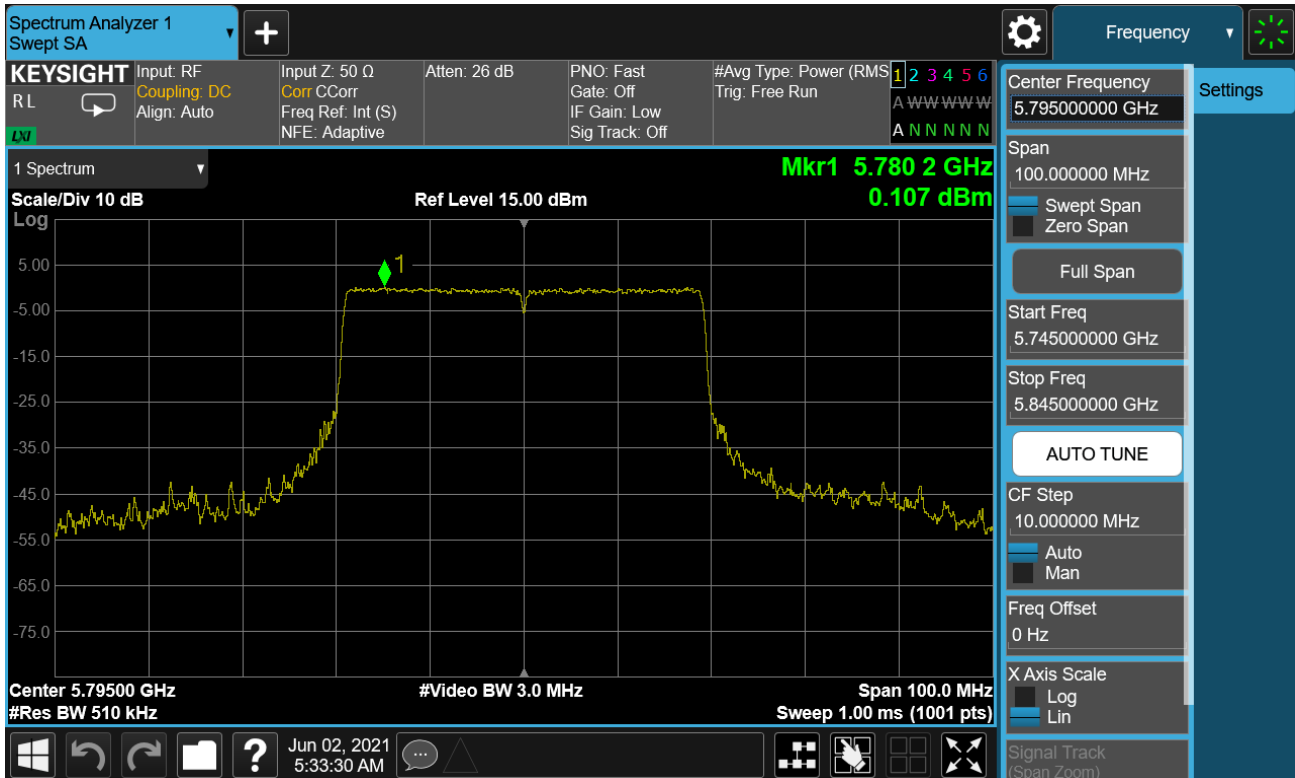


Plot 7-183. Power Spectral Density Plot SISO SOUTH (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

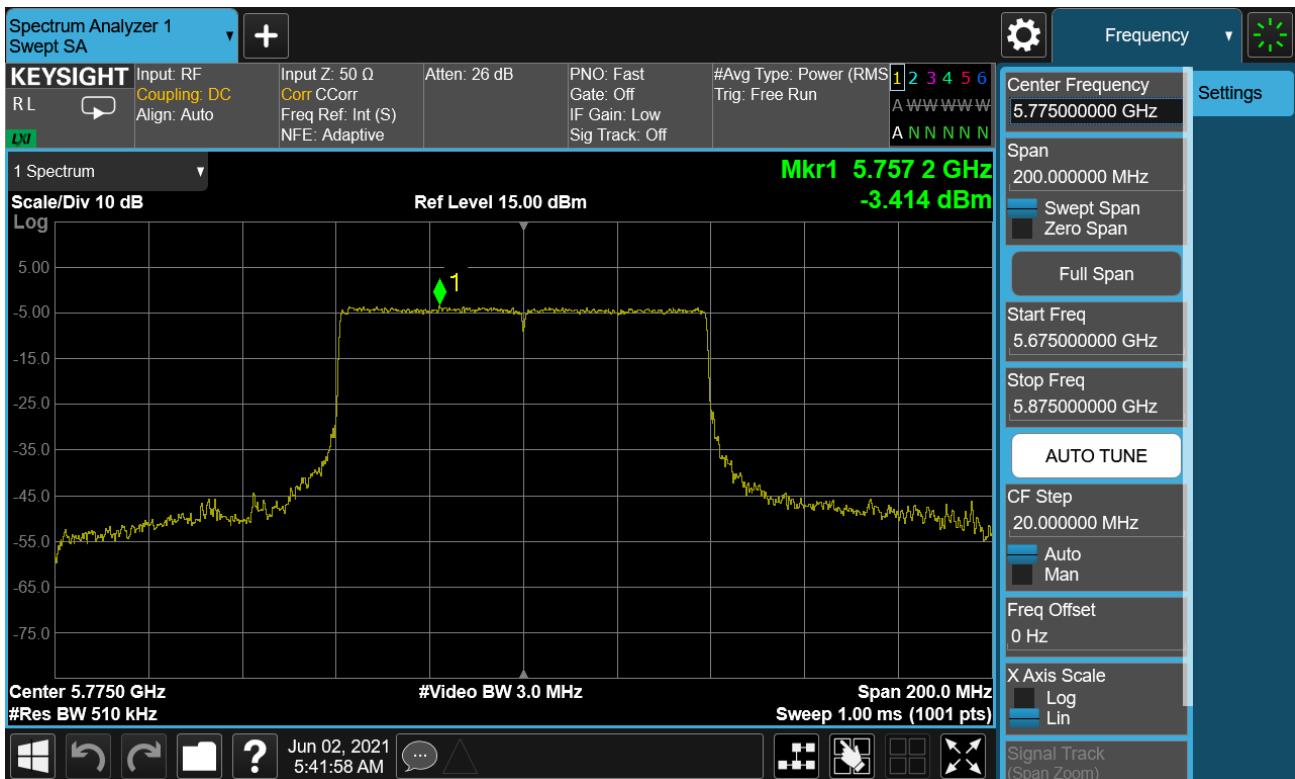


Plot 7-184. Power Spectral Density Plot SISO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 143 of 341



Plot 7-185. Power Spectral Density Plot SISO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-186. Power Spectral Density Plot SISO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 144 of 341

SISO NORTH Power Spectral Density Measurements (26 Tones)

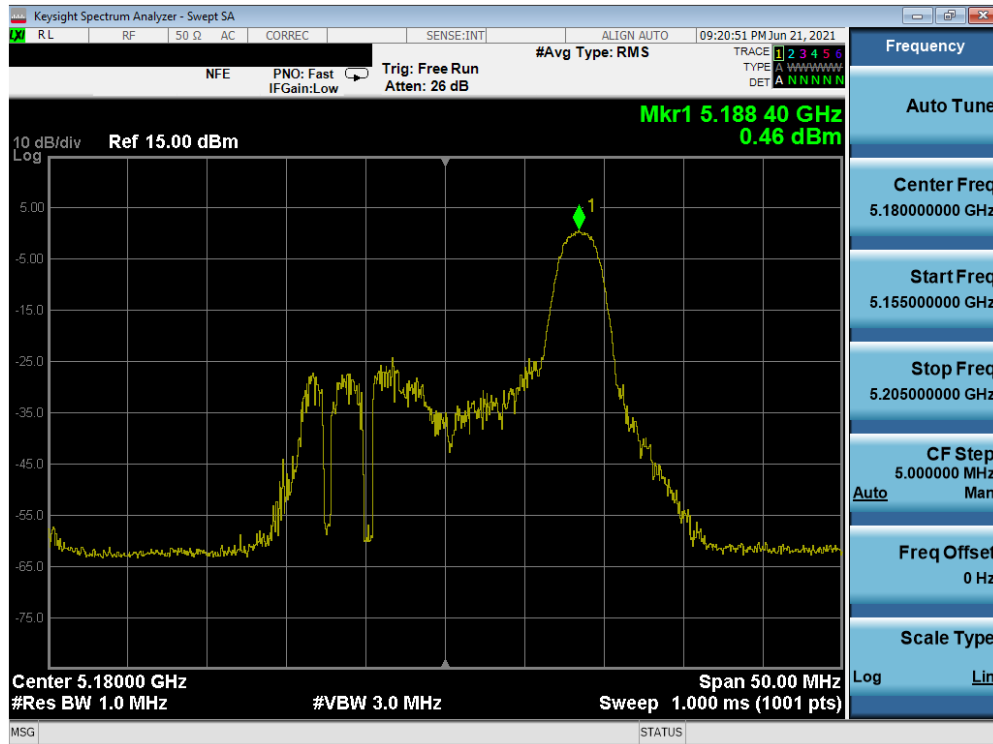
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	0.46	11.00	-10.54
	5200	40	ax (20MHz)	26T	MCS0	0.54	11.00	-10.46
	5240	48	ax (20MHz)	26T	MCS0	0.51	11.00	-10.49
	5190	38	ax (40MHz)	26T	MCS0	0.58	11.00	-10.42
	5230	46	ax (40MHz)	26T	MCS0	0.85	11.00	-10.15
	5210	42	ax (80MHz)	26T	MCS0	0.62	11.00	-10.38
Band 1/2A	5250	50	ax (160 MHz L)	26T	MCS0	-0.76	11.00	-11.76
	5250	50	ax (160 MHz U)	26T	MCS0	6.82	11.00	-4.18
Band 2A	5260	52	ax (20MHz)	26T	MCS0	6.04	11.00	-4.96
	5280	56	ax (20MHz)	26T	MCS0	5.98	11.00	-5.02
	5320	64	ax (20MHz)	26T	MCS0	5.99	11.00	-5.01
	5270	54	ax (40MHz)	26T	MCS0	6.58	11.00	-4.43
	5310	62	ax (40MHz)	26T	MCS0	6.65	11.00	-4.35
	5290	58	ax (80MHz)	26T	MCS0	5.58	11.00	-5.42
Band 2C	5500	100	ax (20MHz)	26T	MCS0	5.53	11.00	-5.47
	5600	120	ax (20MHz)	26T	MCS0	5.28	11.00	-5.72
	5720	144	ax (20MHz)	26T	MCS0	5.49	11.00	-5.51
	5510	102	ax (40MHz)	26T	MCS0	6.49	11.00	-4.51
	5590	118	ax (40MHz)	26T	MCS0	6.62	11.00	-4.38
	5710	142	ax (40MHz)	26T	MCS0	6.79	11.00	-4.21
	5530	106	ax (80MHz)	26T	MCS0	5.92	11.00	-5.08
	5610	122	ax (80MHz)	26T	MCS0	5.84	11.00	-5.16
	5690	138	ax (80MHz)	26T	MCS0	7.24	11.00	-3.76
	5570	114	ax (160 MHz L)	26T	MCS0	6.56	11.00	-4.44
	5570	114	ax (160 MHz U)	26T	MCS0	6.39	11.00	-4.61

Table 7-97. Conducted Power Spectral Density Measurements SISO NORTH (26 Tones)

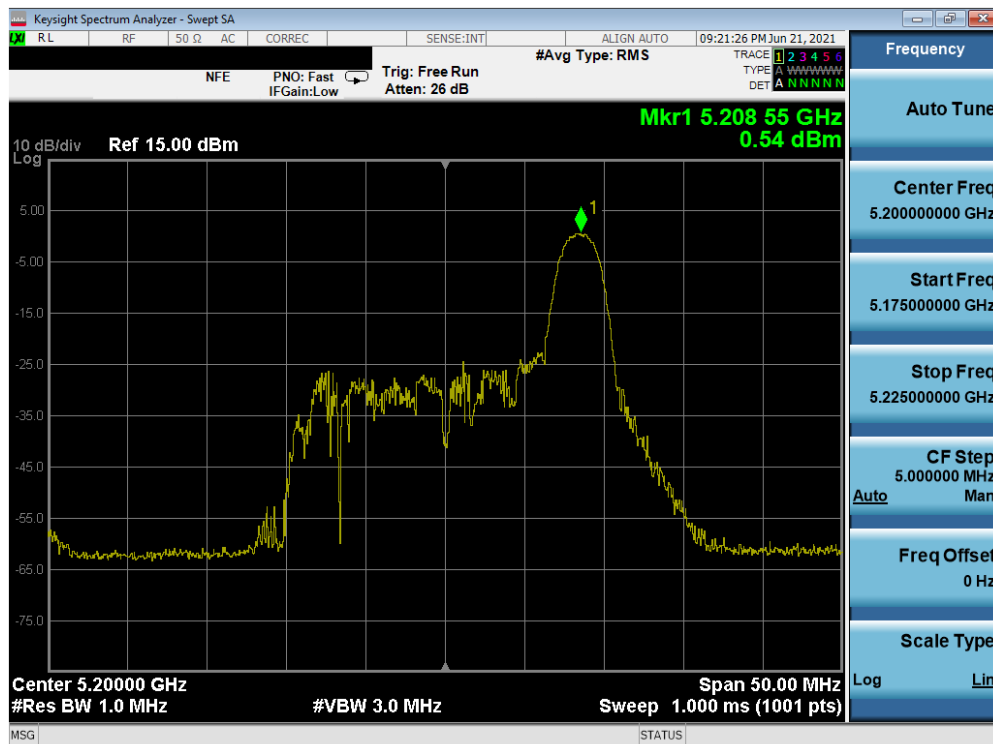
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	0.46	-2.10	-1.64	10.0	-11.64
	5200	40	ax (20MHz)	26T	MCS0	0.54	-2.10	-1.56	10.0	-11.56
	5240	48	ax (20MHz)	26T	MCS0	0.51	-2.10	-1.59	10.0	-11.59
	5190	38	ax (40MHz)	26T	MCS0	0.58	-2.10	-1.52	10.0	-11.52
	5230	46	ax (40MHz)	26T	MCS0	0.85	-2.10	-1.25	10.0	-11.25
	5210	42	ax (80MHz)	26T	MCS0	0.62	-2.10	-1.48	10.0	-11.48
	5210	50	ax (160 MHz L)	26T	MCS0	-0.76	-2.10	-2.86	10.0	-12.86

Table 7-98. Bands 1 e.i.r.p. Conducted Power Spectral Density Measurements SISO NORTH (26 Tones) ISED

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 145 of 341

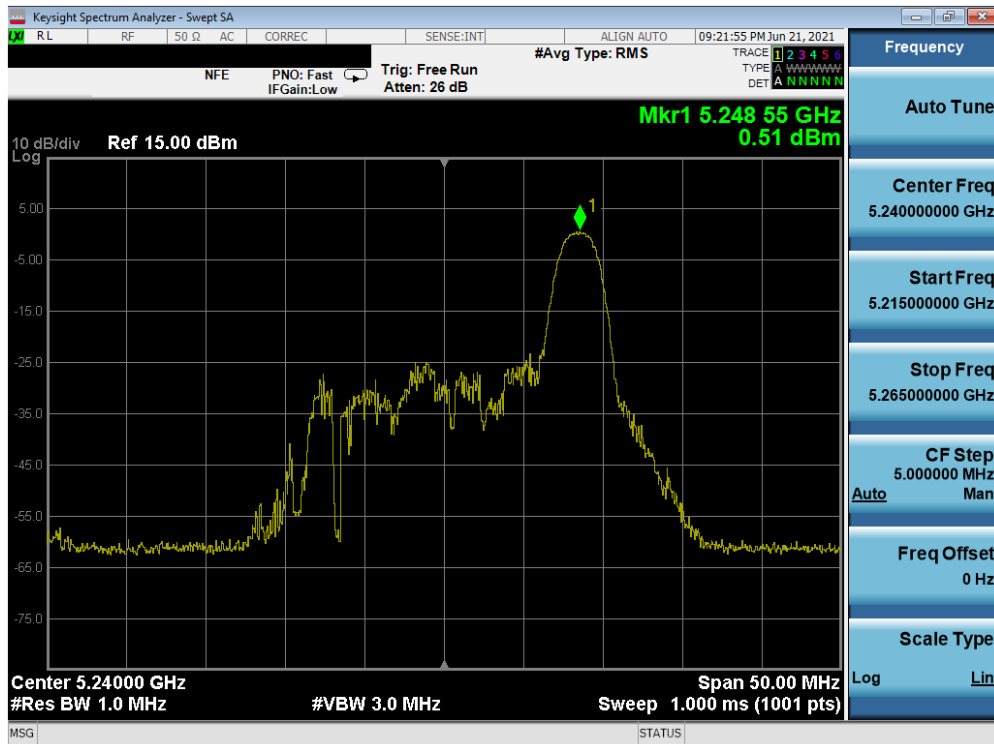


Plot 7-187. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

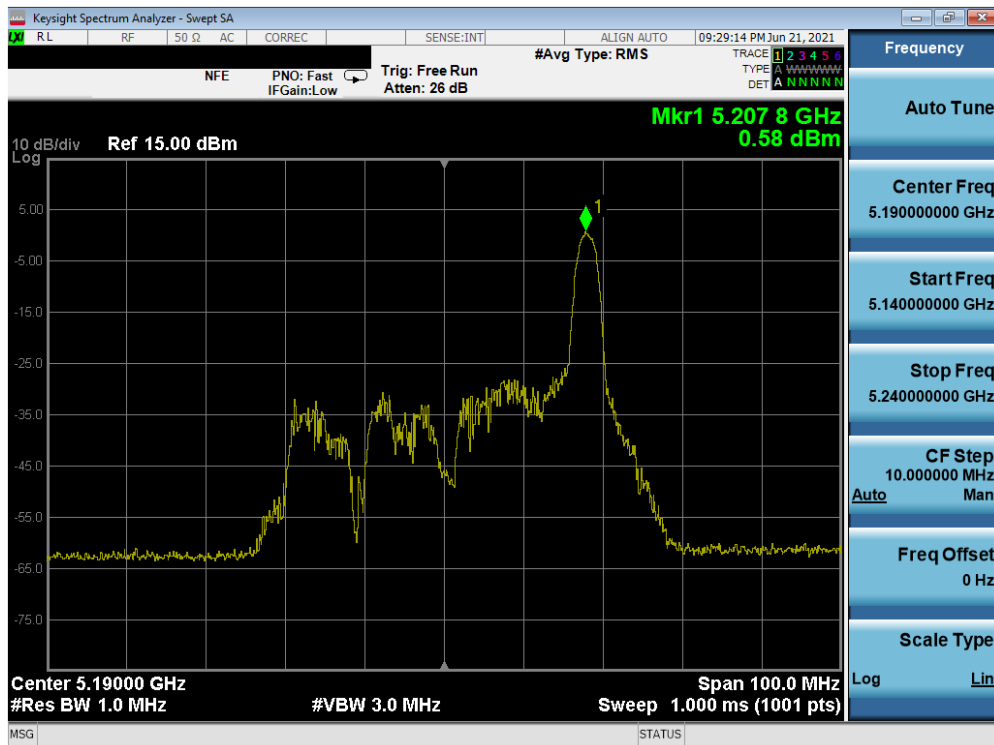


Plot 7-188. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 146 of 341

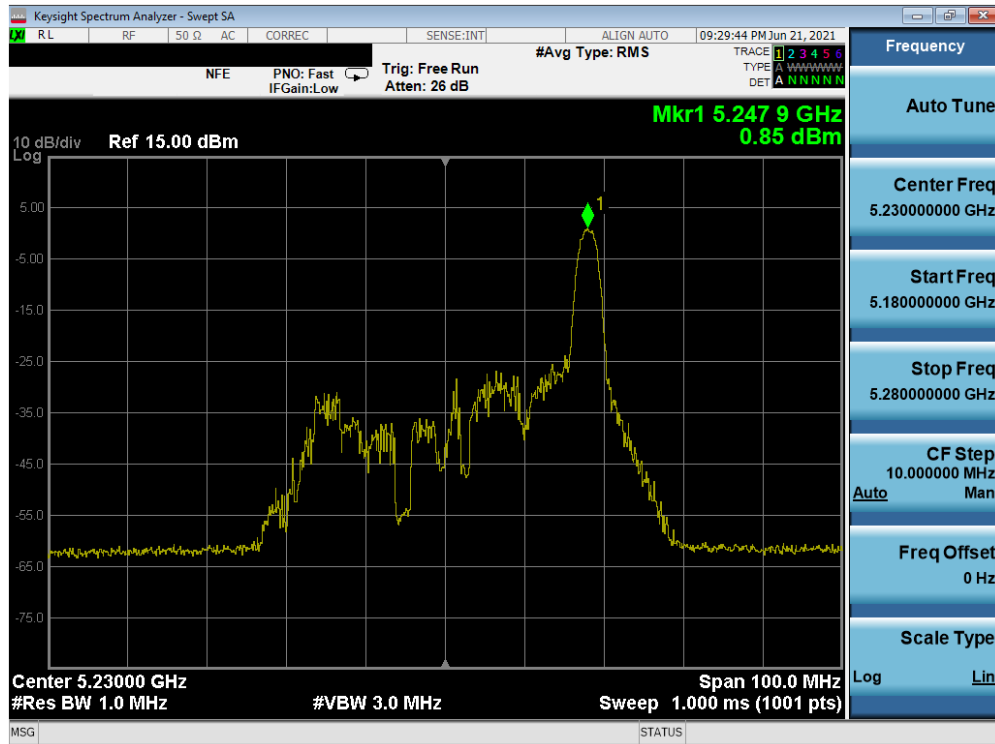


Plot 7-189. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11 ax – 26 Tones (UNII Band 1) – Ch. 48)

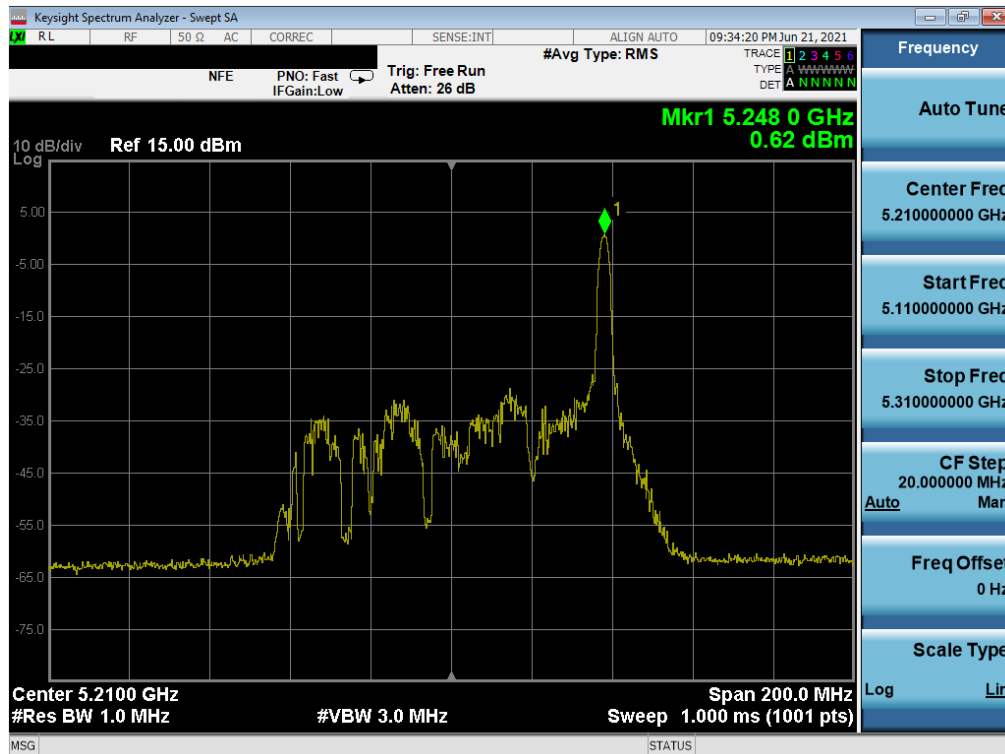


Plot 7-190. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11 ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 147 of 341

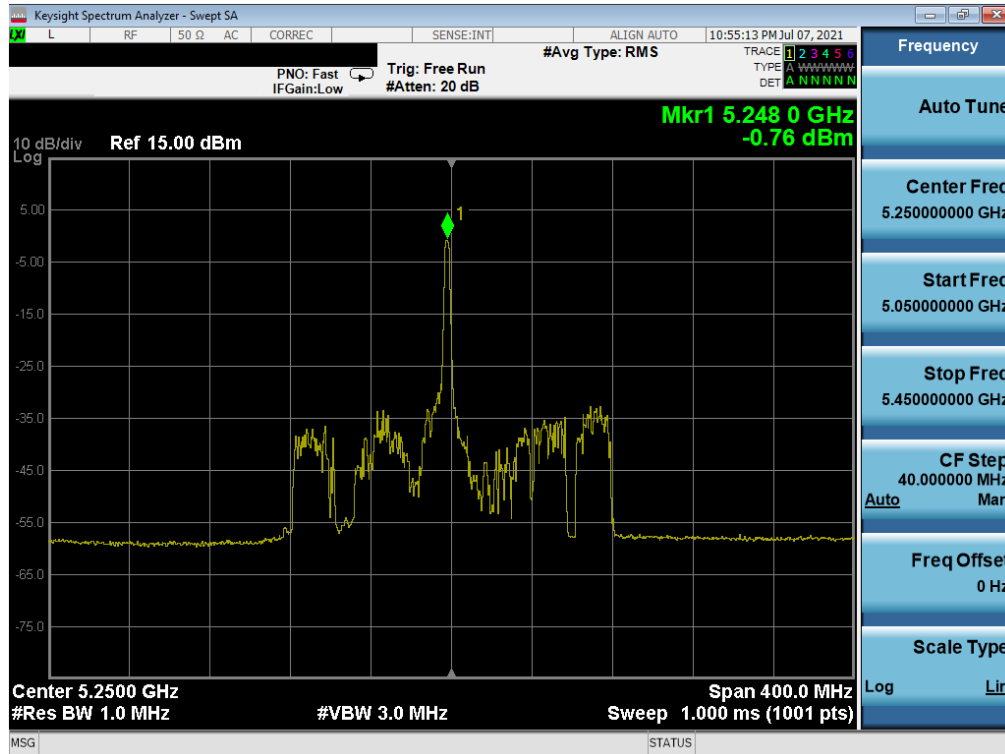


Plot 7-191. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

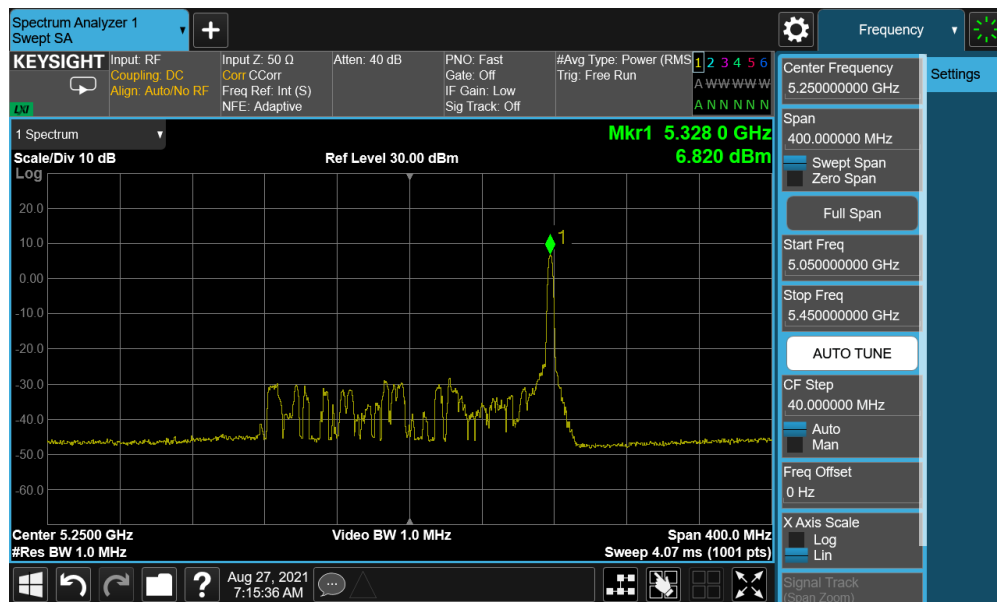


Plot 7-192. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 148 of 341

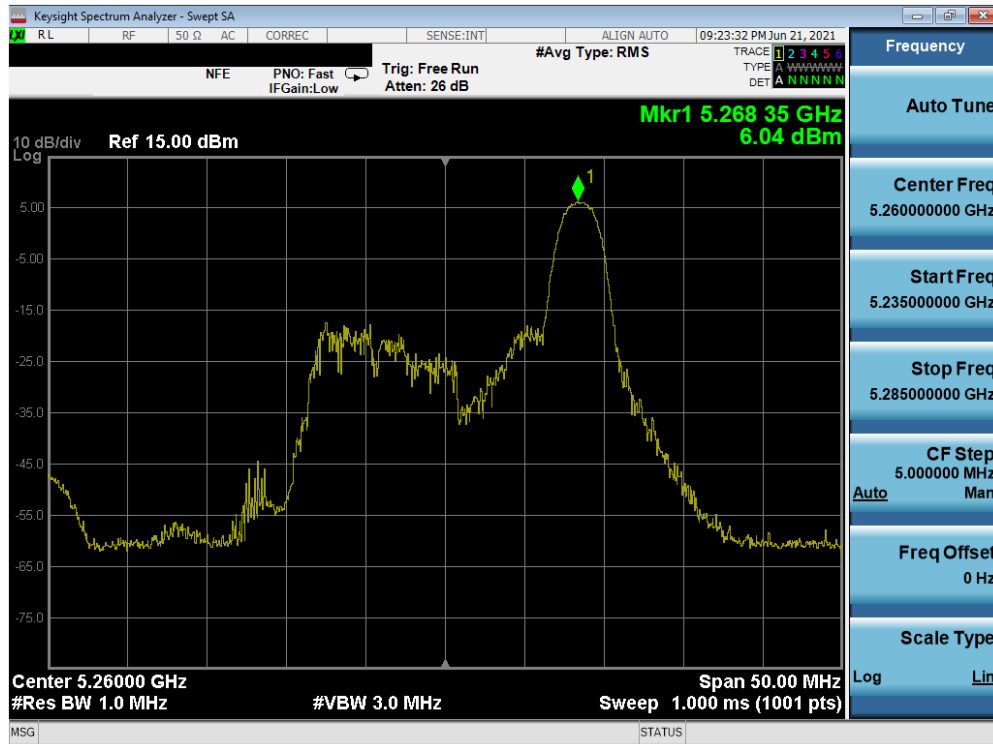


Plot 7-193. Power Spectral Density Plot SISO NORTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 1) – Ch. 50)

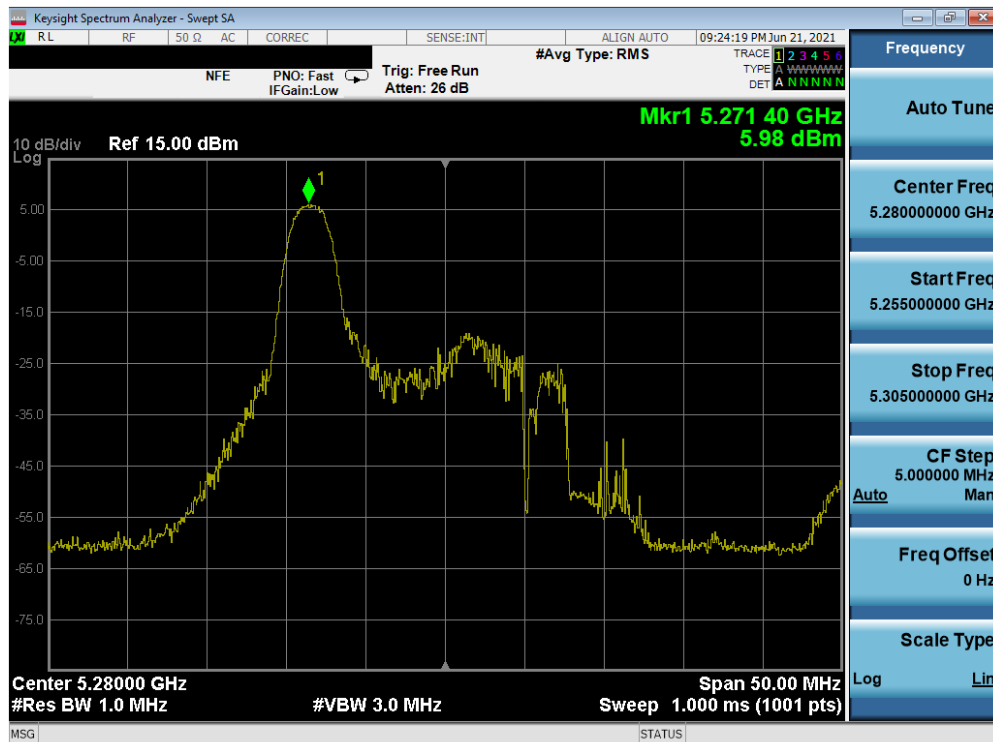


Plot 7-194. Power Spectral Density Plot SISO NORTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2A) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 149 of 341

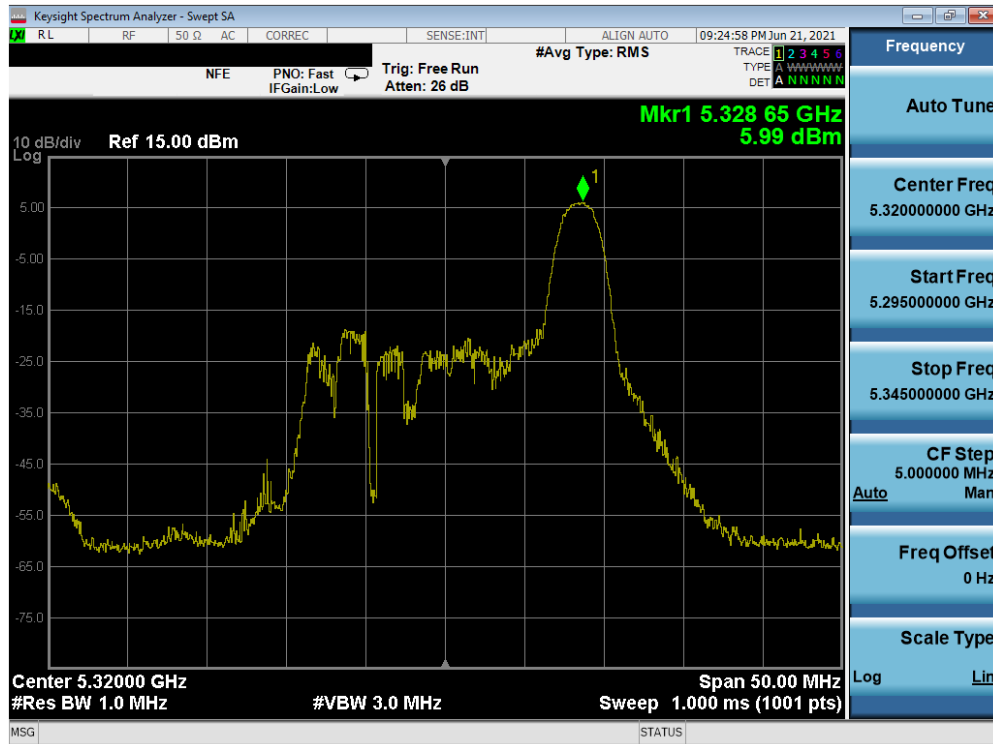


Plot 7-195. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

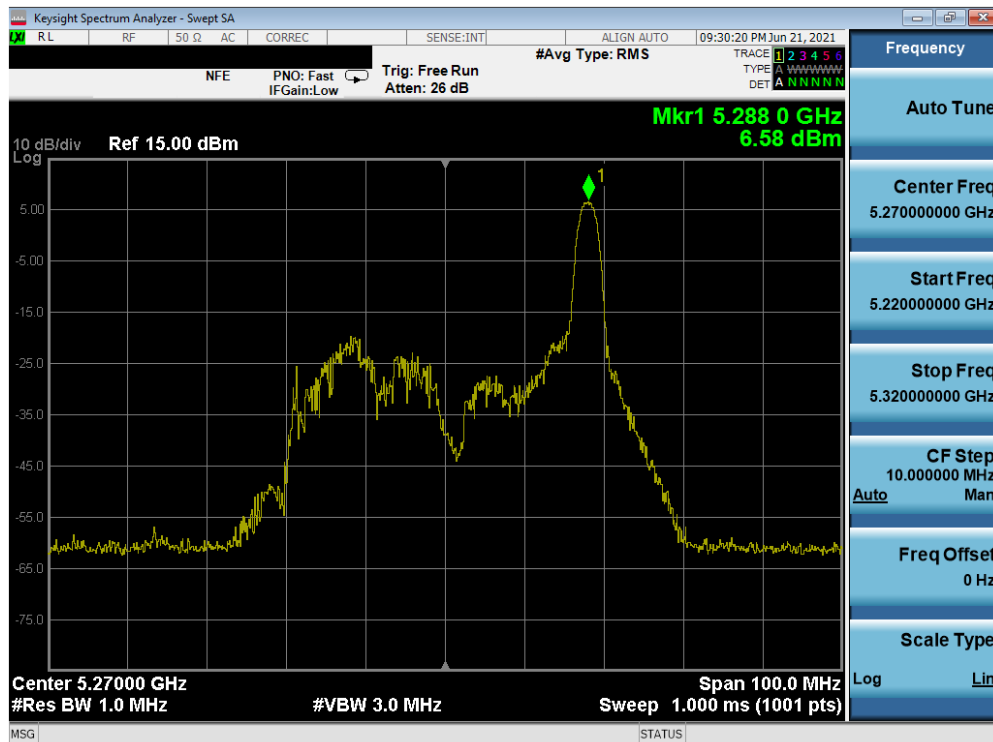


Plot 7-196. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 150 of 341

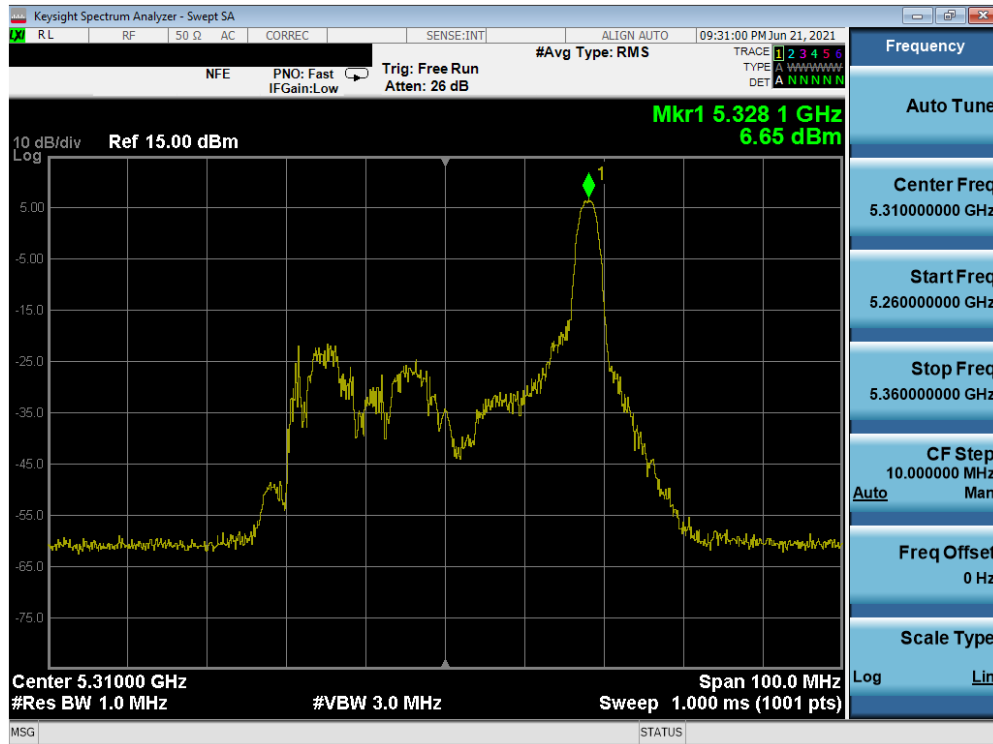


Plot 7-197. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

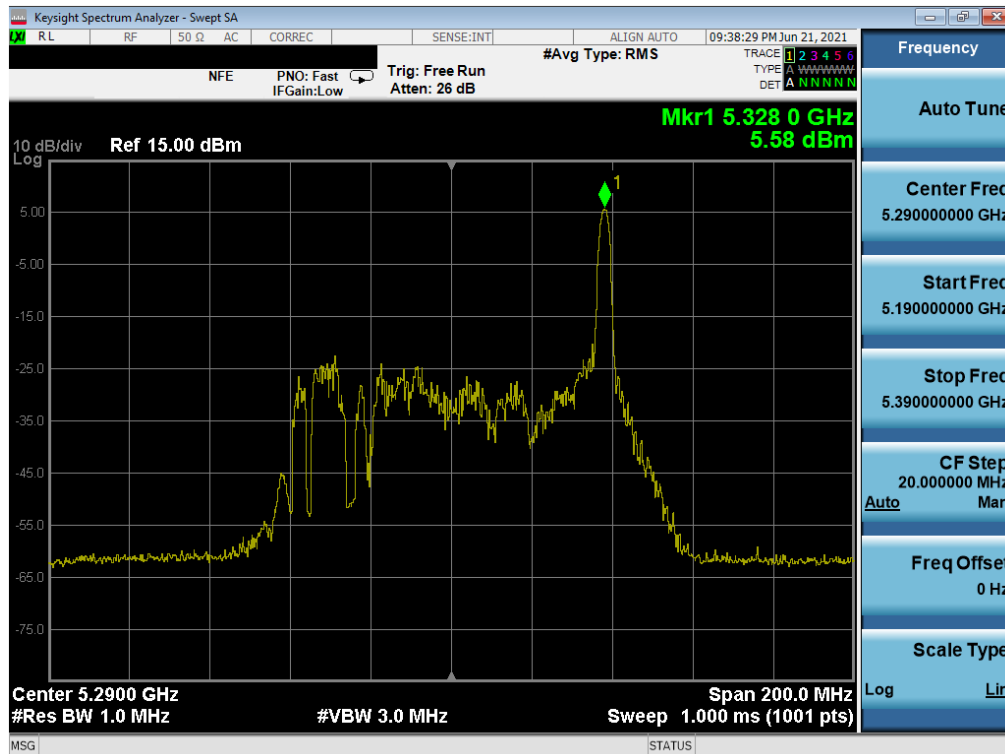


Plot 7-198. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 151 of 341

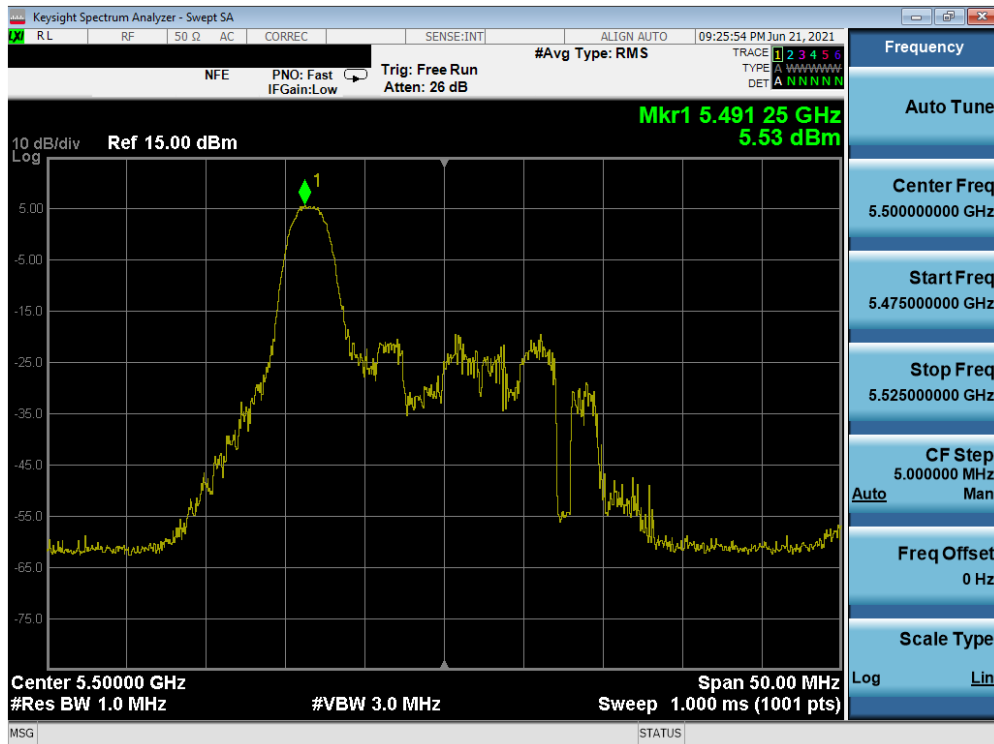


Plot 7-199. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

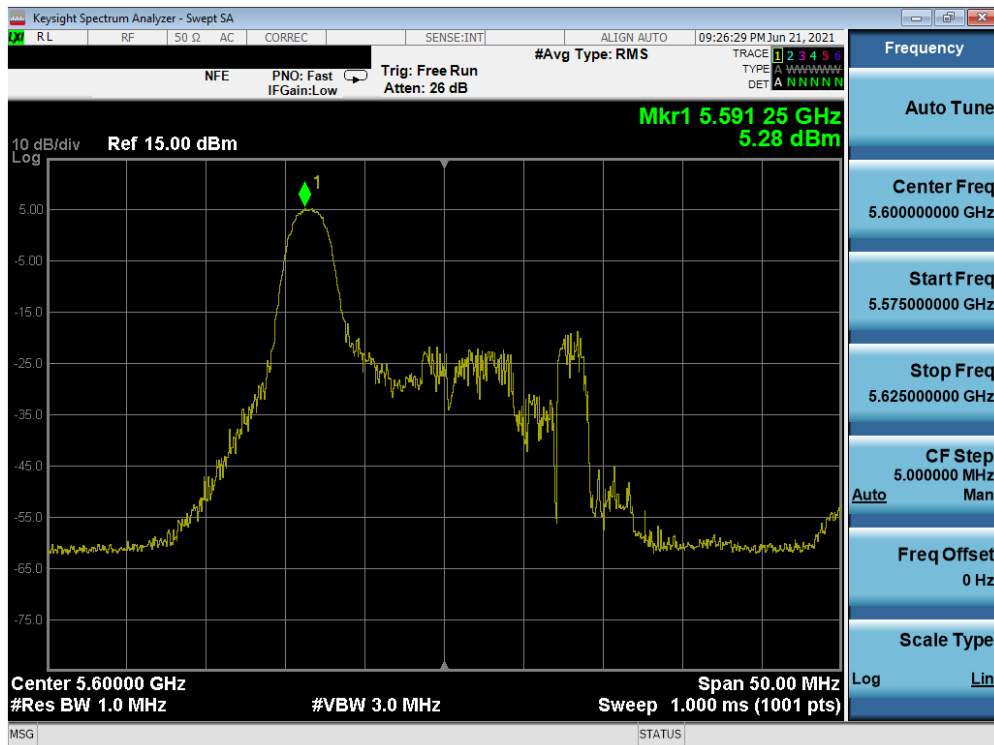


Plot 7-200. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 152 of 341

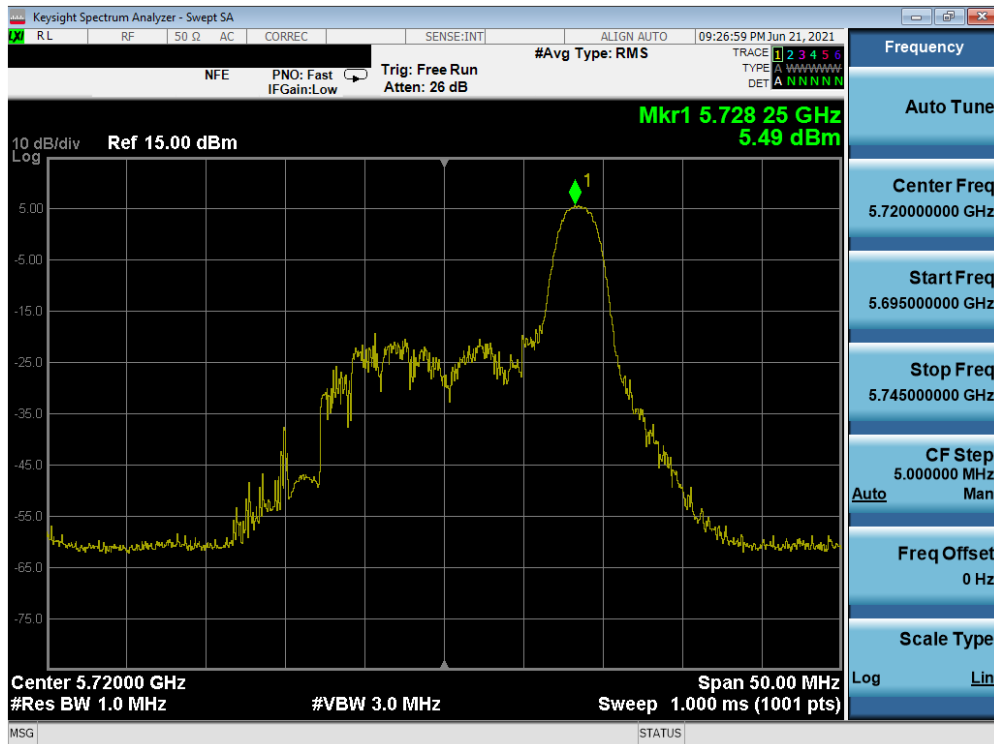


Plot 7-201. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

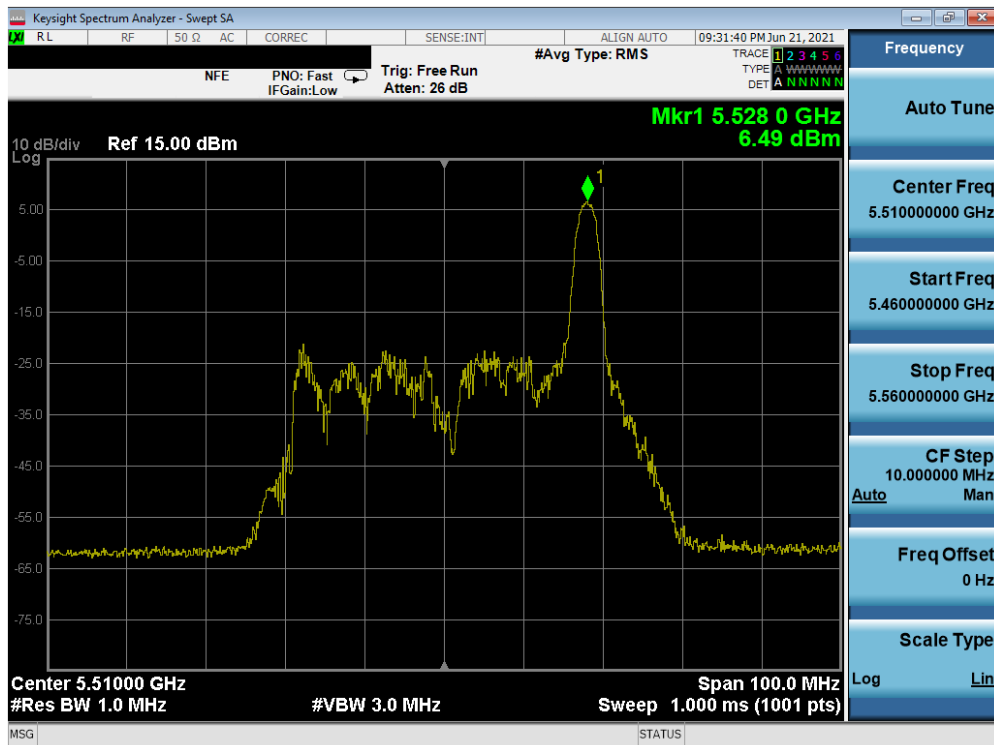


Plot 7-202. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 153 of 341

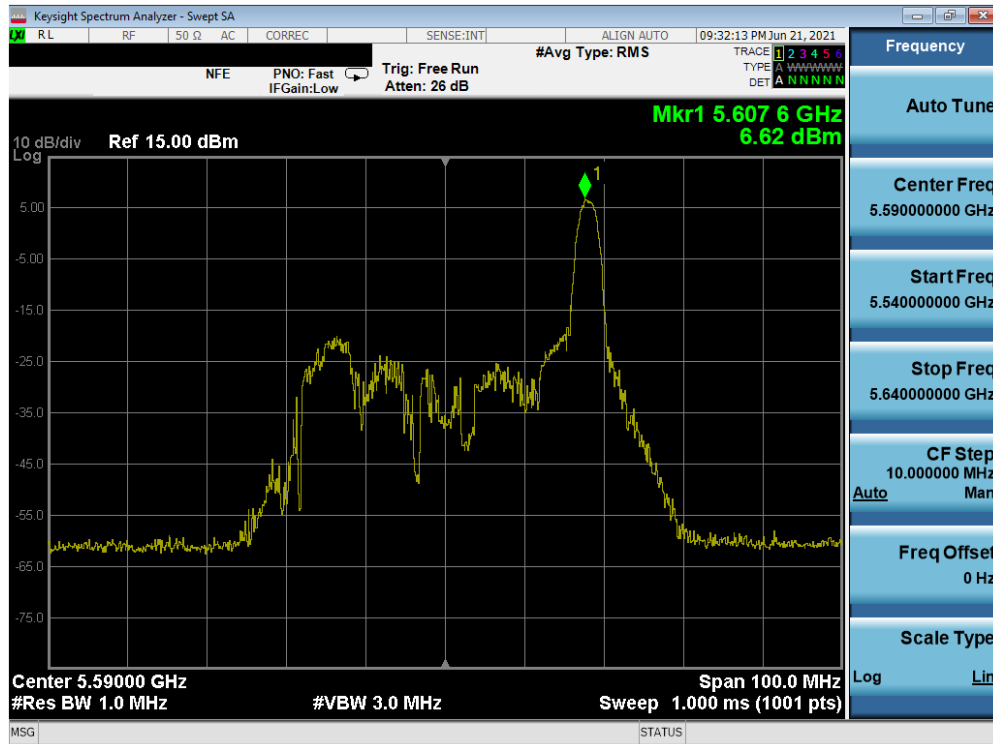


Plot 7-203. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

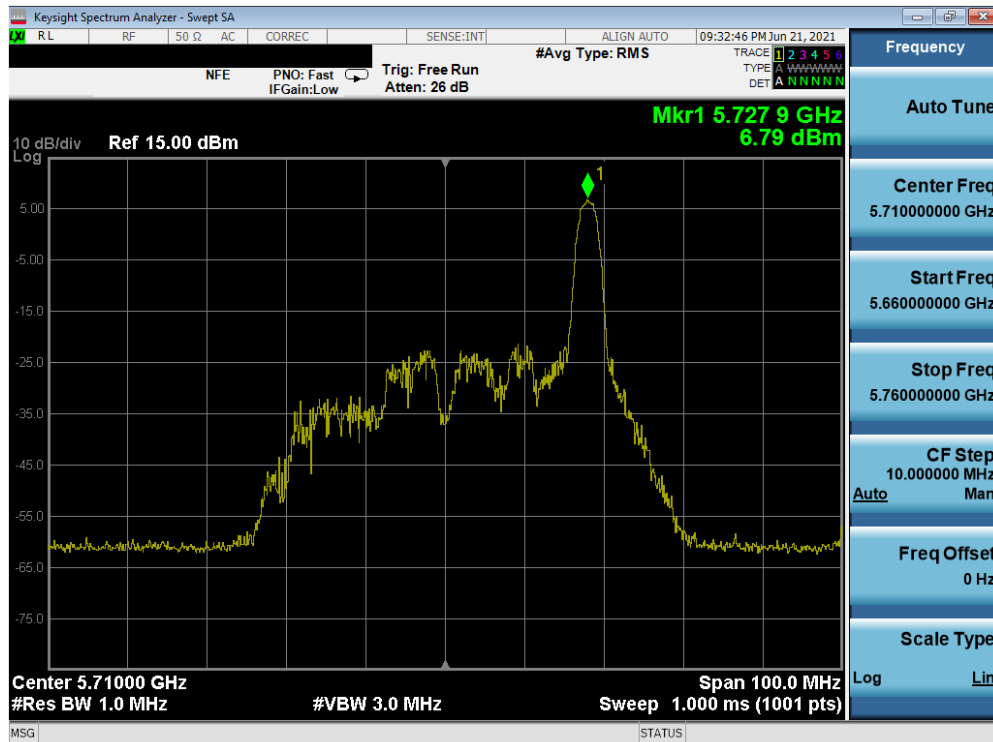


Plot 7-204. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 154 of 341

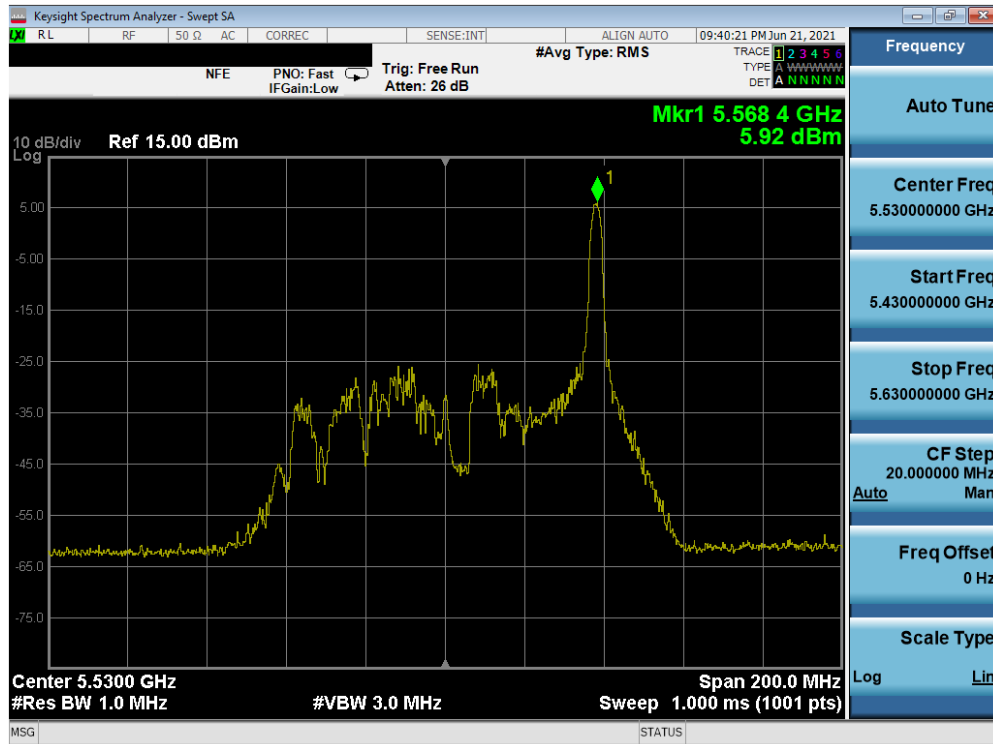


Plot 7-205. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

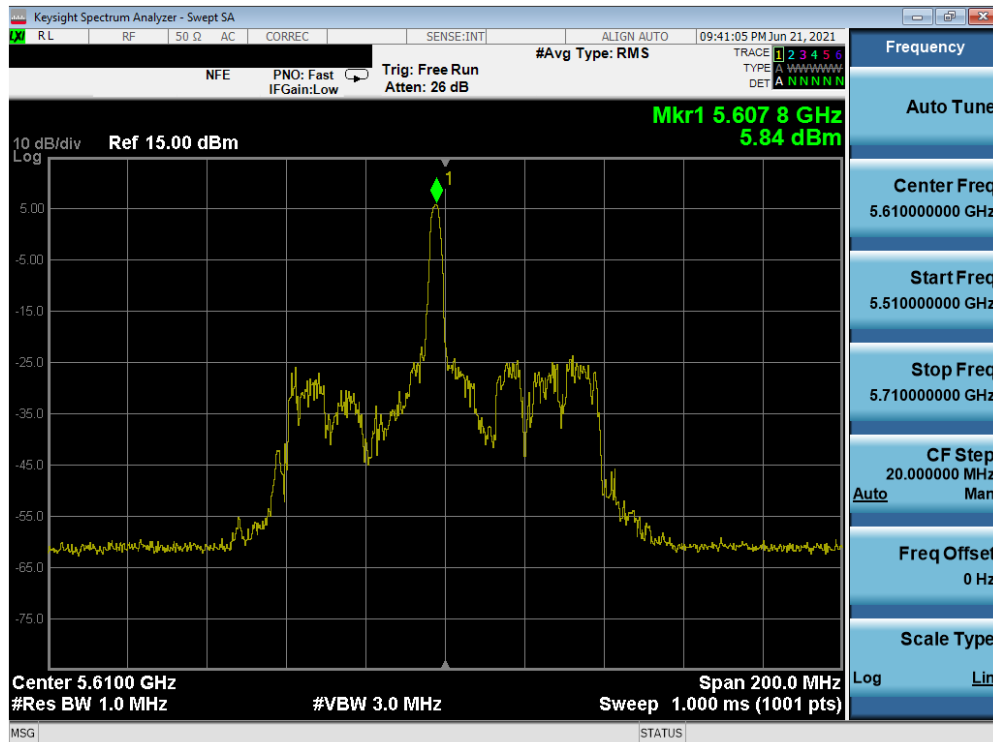


Plot 7-206. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 155 of 341

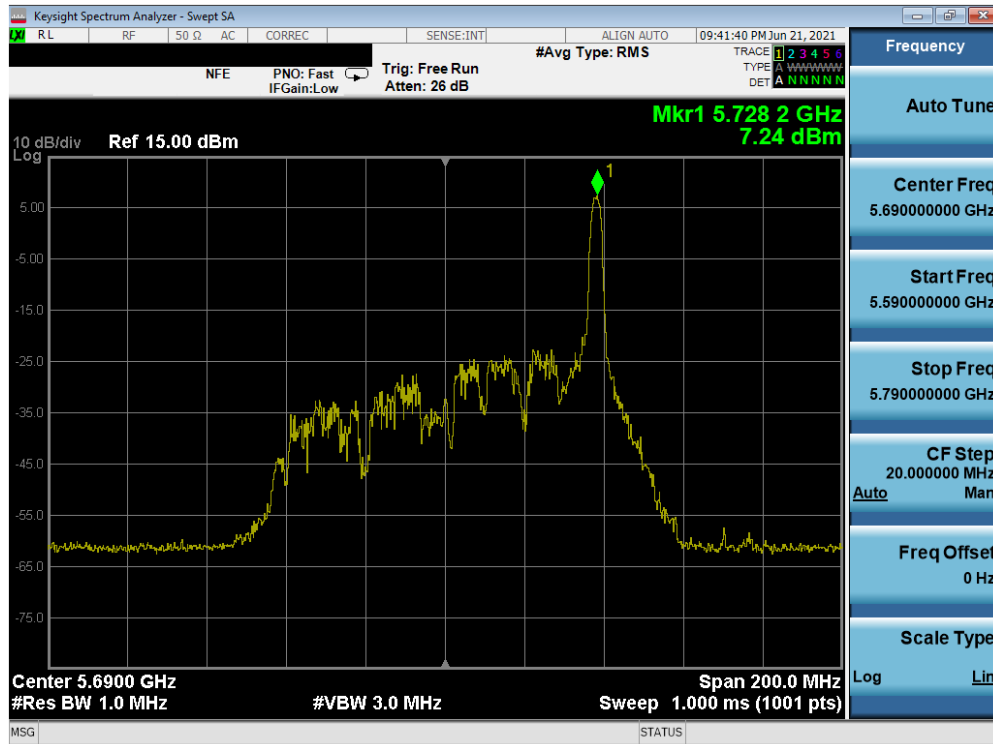


Plot 7-207. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

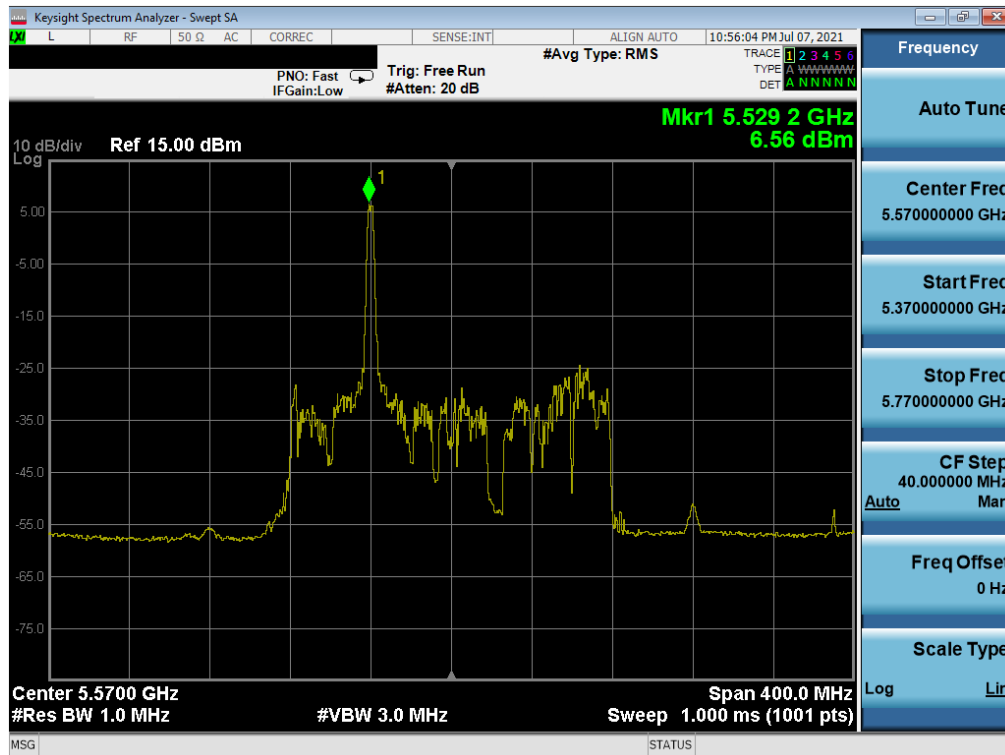


Plot 7-208. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 156 of 341

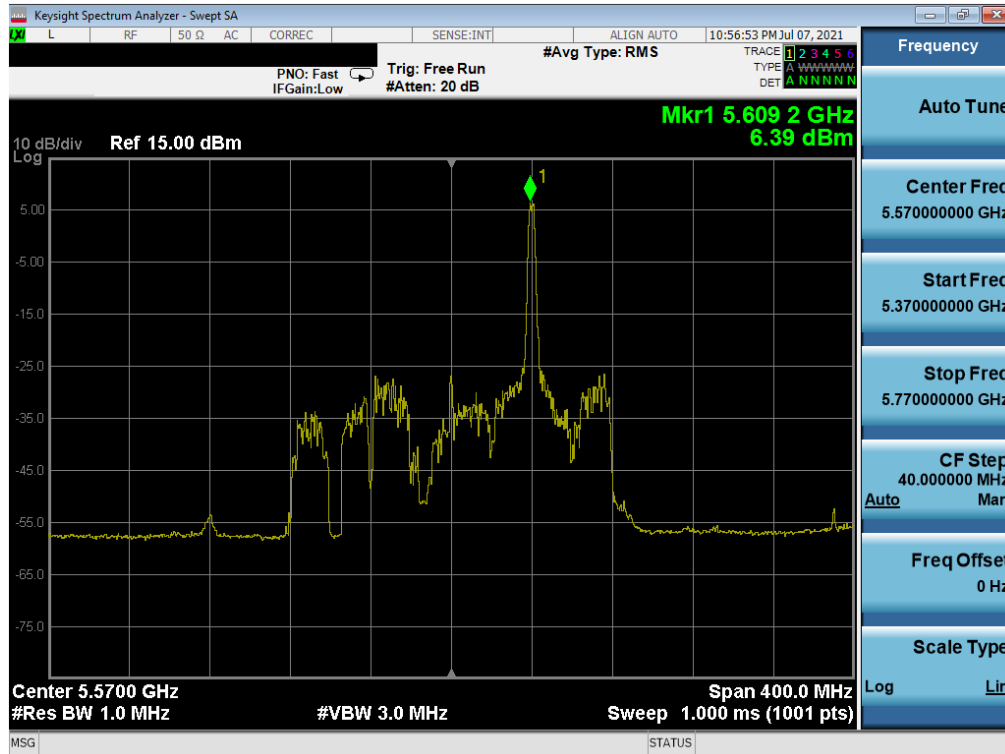


Plot 7-209. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-210. Power Spectral Density Plot SISO NORTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 157 of 341



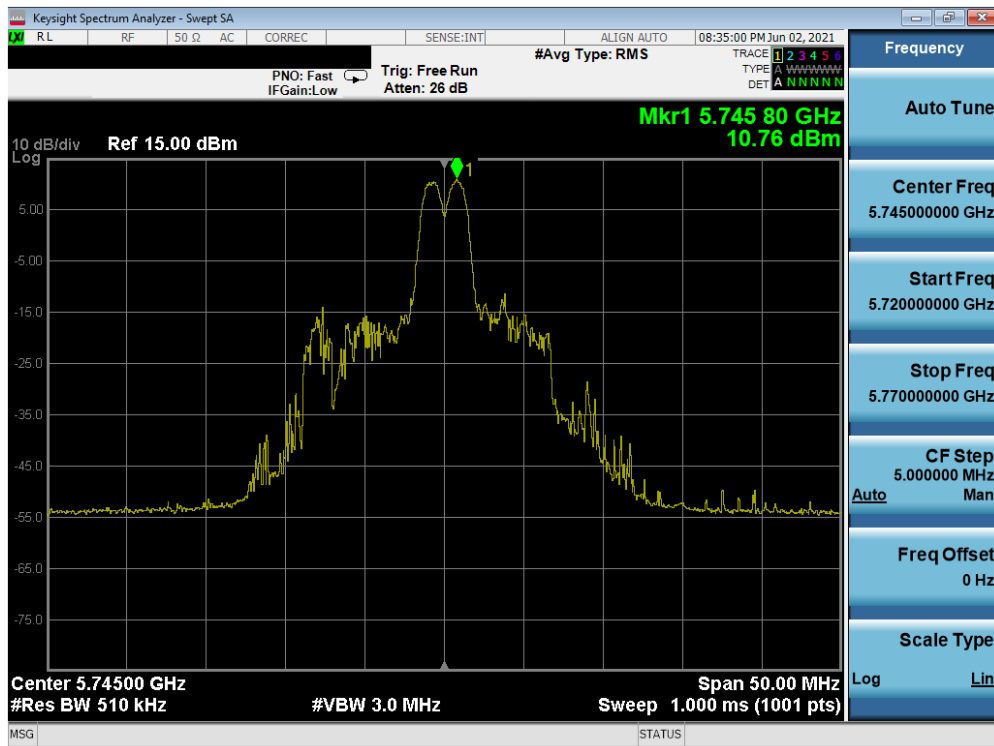
Plot 7-211. Power Spectral Density Plot SISO NORTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 158 of 341

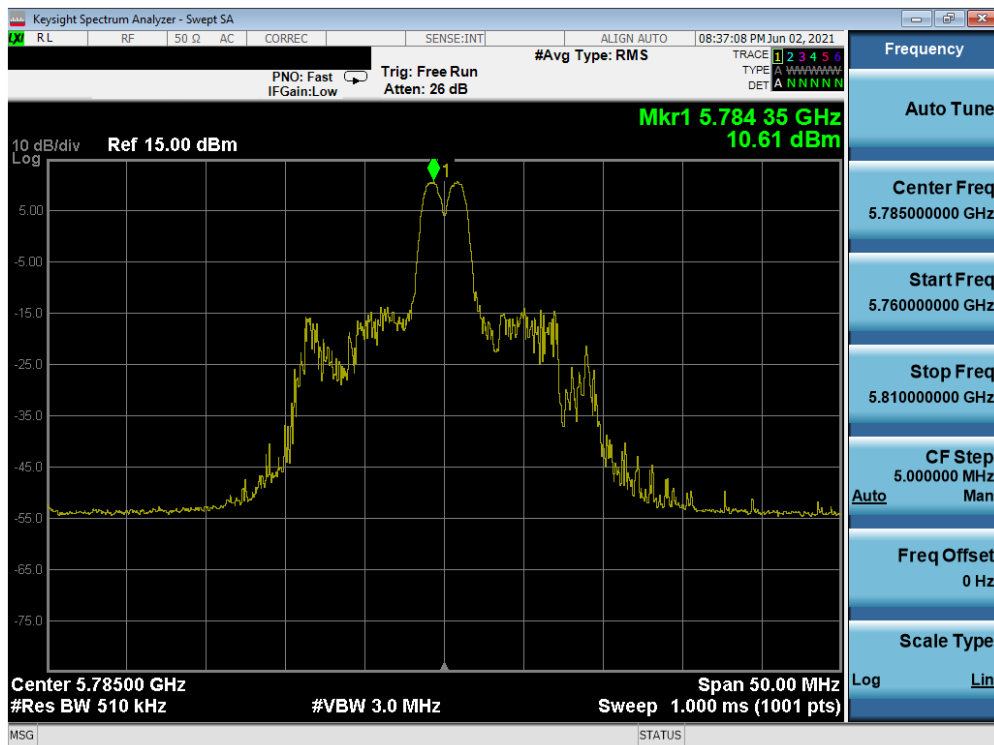
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	10.76	30.00	-19.24
	5785	157	ax (20MHz)	26T	MCS0	10.61	30.00	-19.39
	5825	165	ax (20MHz)	26T	MCS0	10.72	30.00	-19.28
	5755	151	ax (40MHz)	26T	MCS0	11.59	30.00	-18.41
	5795	159	ax (40MHz)	26T	MCS0	11.61	30.00	-18.39
	5775	155	ax (80MHz)	26T	MCS0	11.12	30.00	-18.88

Table 7-99. Band 3 Conducted Power Spectral Density Measurements SISO NORTH (26 Tones)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 159 of 341



Plot 7-212. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

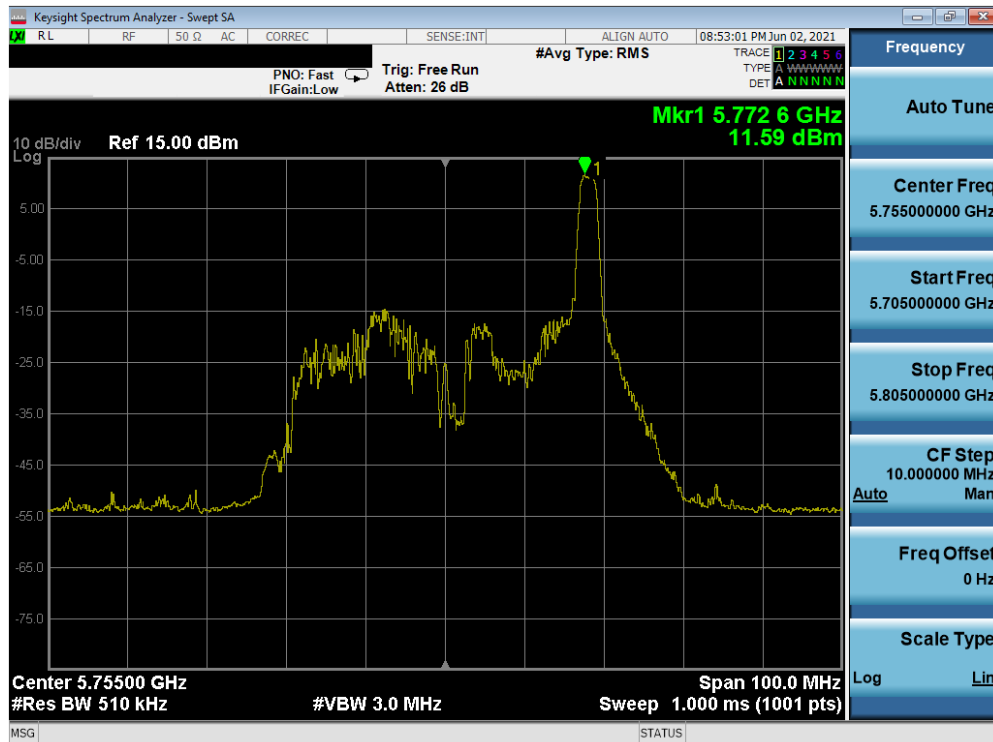


Plot 7-213. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 160 of 341

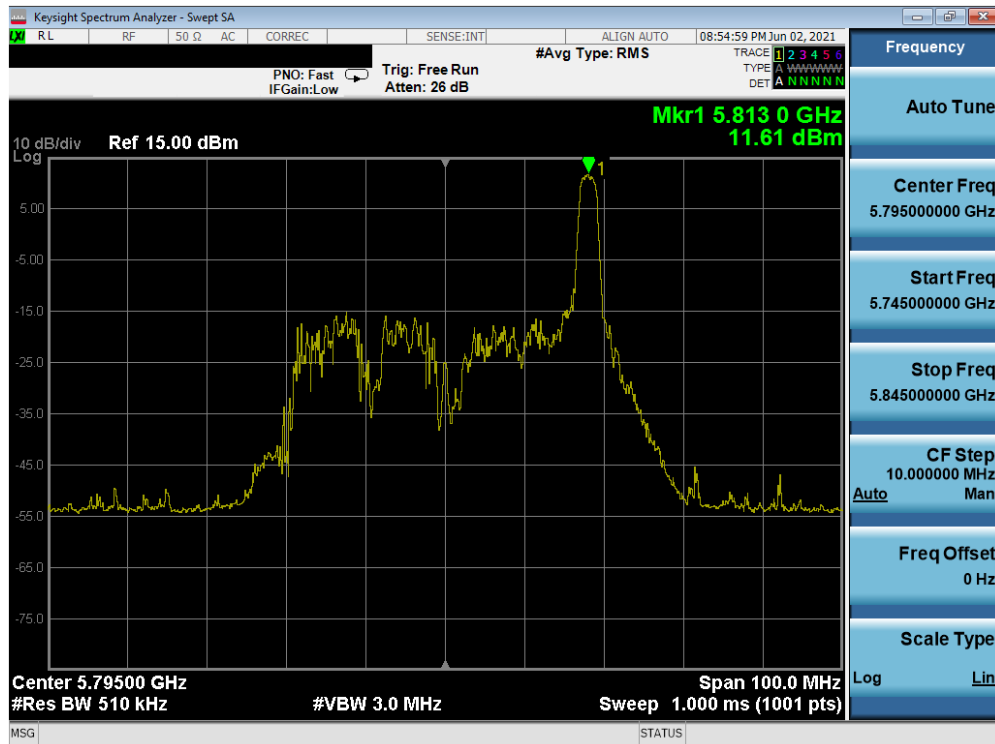


Plot 7-214. Power Spectral Density Plot SISO NORTH (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

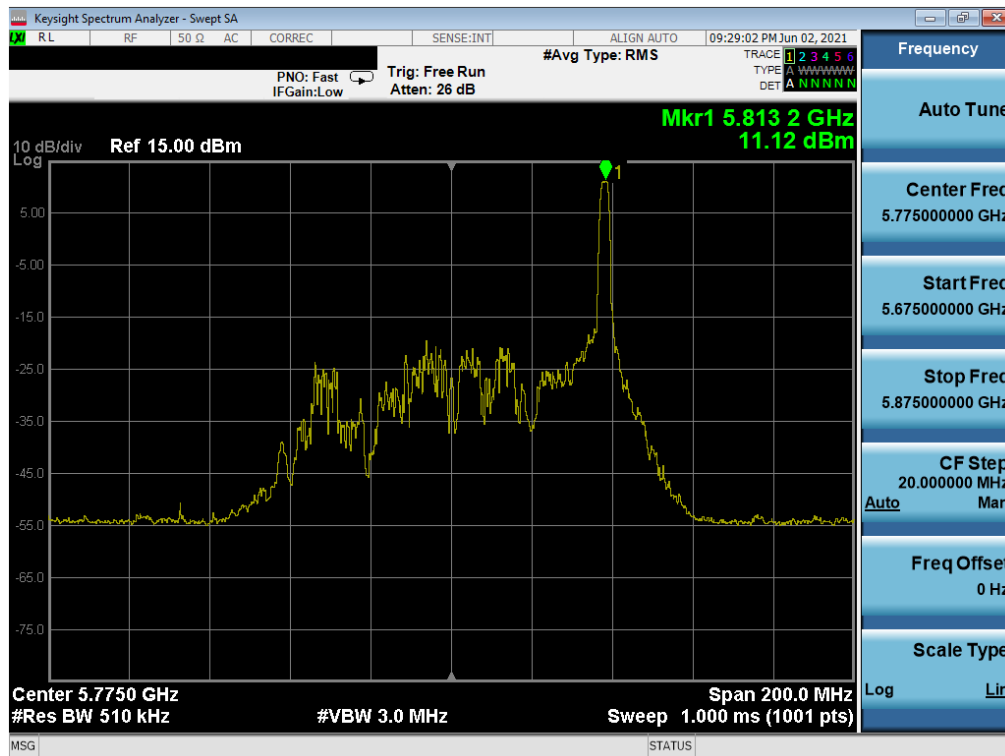


Plot 7-215. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 161 of 341



Plot 7-216. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-217. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 162 of 341

SISO NORTH 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	2.31	11.00	-8.69
	5200	40	ax (20MHz)	242T	MCS0	2.29	11.00	-8.71
	5240	48	ax (20MHz)	242T	MCS0	2.66	11.00	-8.34
	5190	38	ax (40MHz)	484T	MCS0	0.77	11.00	-10.24
	5230	46	ax (40MHz)	484T	MCS0	1.23	11.00	-9.77
	5210	42	ax (80MHz)	996T	MCS0	-2.15	11.00	-13.15
Band 1/2A	5250	50	ax (160 MHz L)	996T	MCS0	-2.39	11.00	-13.39
	5250	50	ax (160 MHz U)	996T	MCS0	-1.33	11.00	-12.33
Band 2A	5260	52	ax (20MHz)	242T	MCS0	6.32	11.00	-4.68
	5280	56	ax (20MHz)	242T	MCS0	6.02	11.00	-4.98
	5320	64	ax (20MHz)	242T	MCS0	5.94	11.00	-5.06
	5270	54	ax (40MHz)	484T	MCS0	3.05	11.00	-7.95
	5310	62	ax (40MHz)	484T	MCS0	2.67	11.00	-8.33
	5290	58	ax (80MHz)	996T	MCS0	-1.58	11.00	-12.58
Band 2C	5500	100	ax (20MHz)	242T	MCS0	6.20	11.00	-4.80
	5600	120	ax (20MHz)	242T	MCS0	5.42	11.00	-5.58
	5720	144	ax (20MHz)	242T	MCS0	6.18	11.00	-4.82
	5510	102	ax (40MHz)	484T	MCS0	2.71	11.00	-8.29
	5590	118	ax (40MHz)	484T	MCS0	2.52	11.00	-8.48
	5710	142	ax (40MHz)	484T	MCS0	2.93	11.00	-8.07
	5530	106	ax (80MHz)	996T	MCS0	-1.01	11.00	-12.01
	5610	122	ax (80MHz)	996T	MCS0	-0.78	11.00	-11.78
	5690	138	ax (80MHz)	996T	MCS0	-0.25	11.00	-11.25
	5570	114	ax (160 MHz L)	996T	MCS0	-2.42	11.0	-13.42
	5570	114	ax (160 MHz U)	996T	MCS0	-2.10	11.0	-13.10

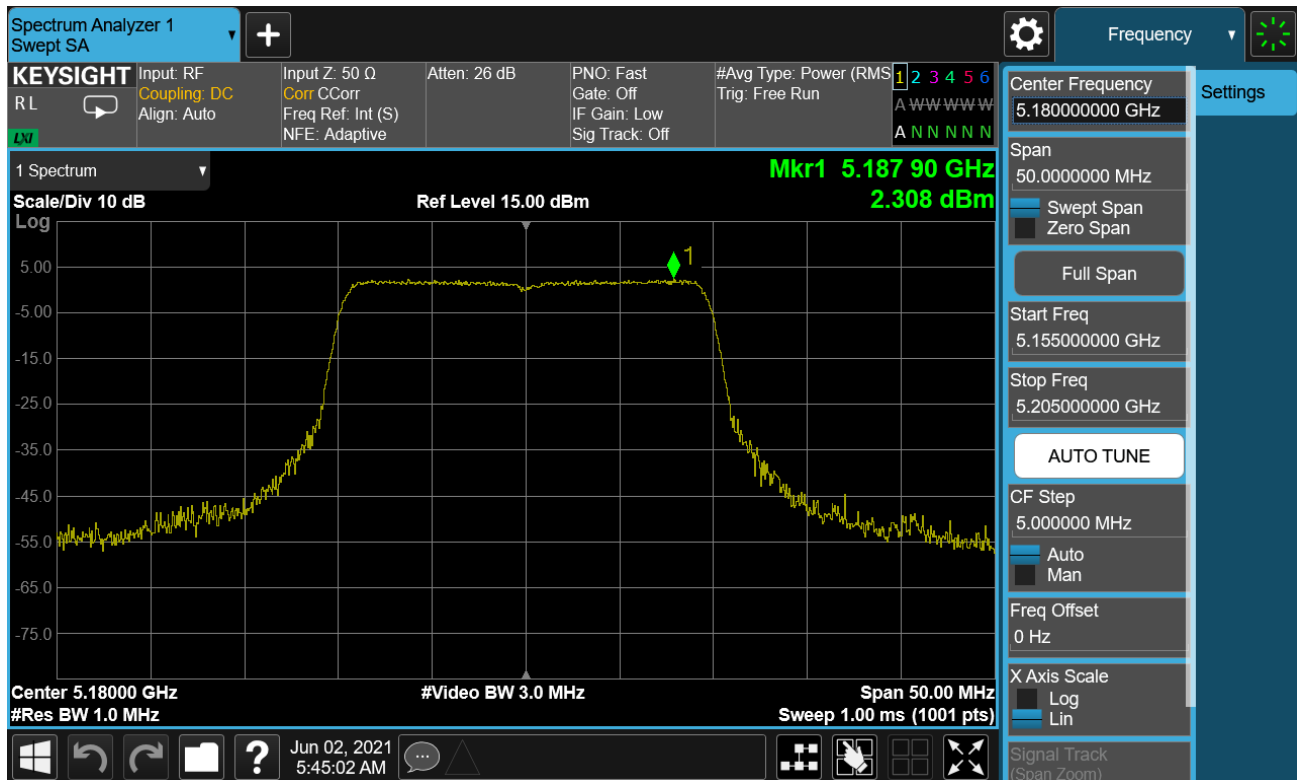
Table 7-100. Conducted Power Spectral Density Measurements SISO NORTH (Full Tones)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 163 of 341

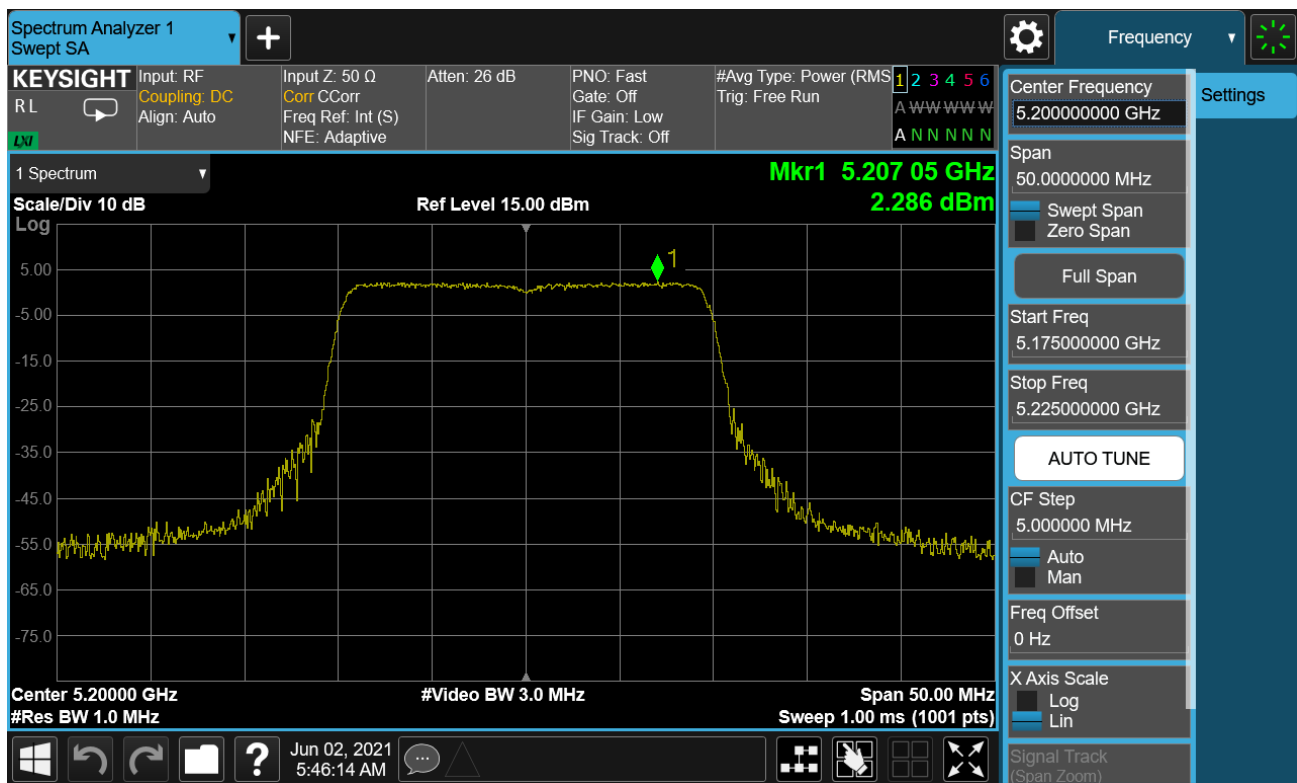
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	2.31	-2.10	0.21	10.0	-9.79
	5200	40	ax (20MHz)	242T	MCS0	2.29	-2.10	0.19	10.0	-9.81
	5240	48	ax (20MHz)	242T	MCS0	2.66	-2.10	0.56	10.0	-9.44
	5190	38	ax (40MHz)	484T	MCS0	0.77	-2.10	-1.33	10.0	-11.33
	5230	46	ax (40MHz)	484T	MCS0	1.23	-2.10	-0.87	10.0	-10.87
	5210	42	ax (80MHz)	996T	MCS0	-2.15	-2.10	-4.25	10.0	-14.25
	5210	50	ax (160 MHz L)	996T	MCS0	-2.39	-2.10	-4.49	10.0	-14.49

Table 7-101. Bands 1 e.i.r.p. Conducted Power Spectral Density Measurements SISO NORTH (Full Tones) (ISED)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 164 of 341

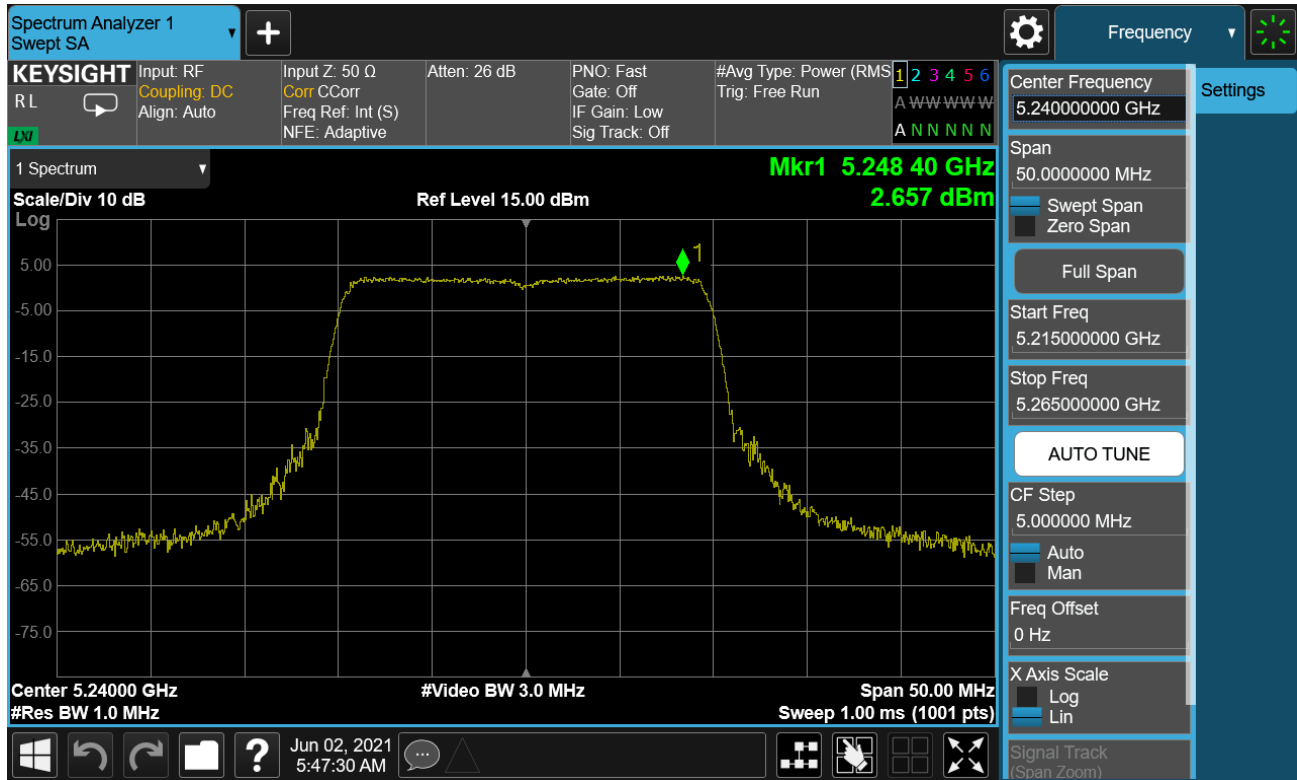


Plot 7-218. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

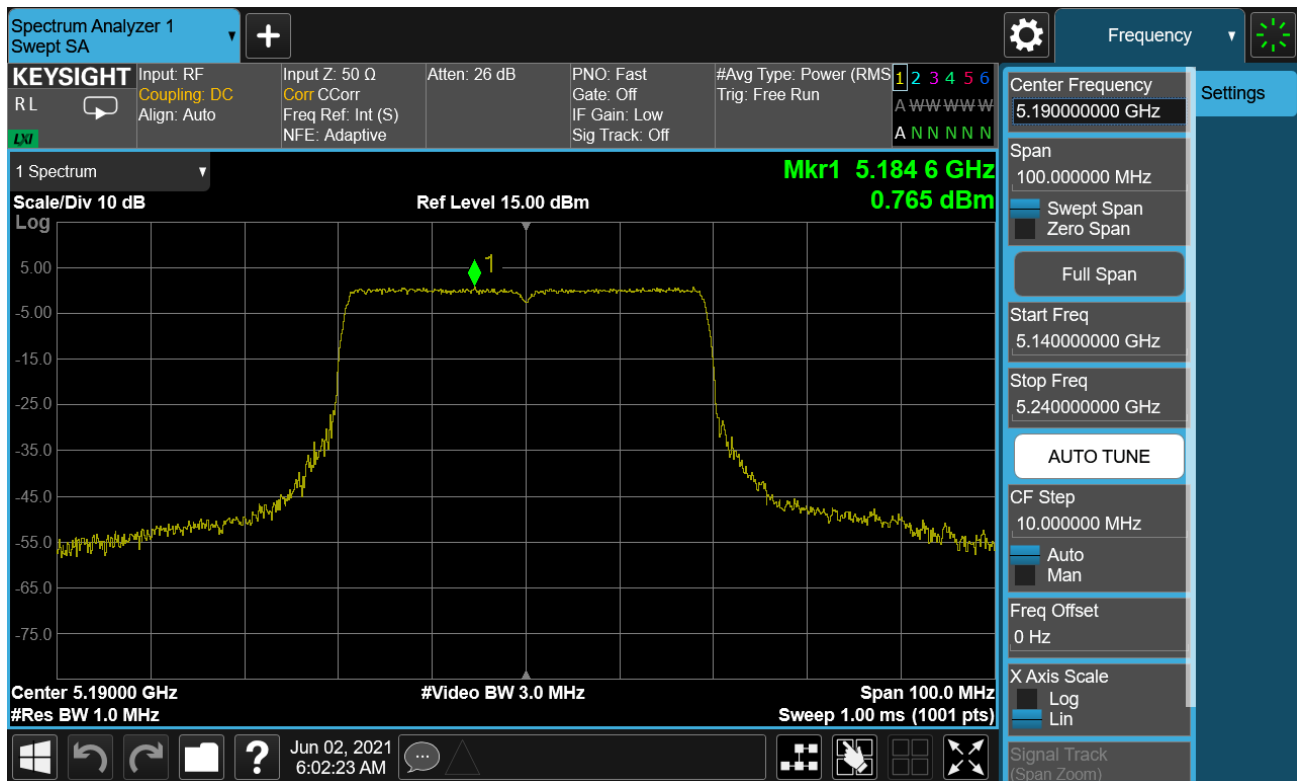


Plot 7-219. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 165 of 341

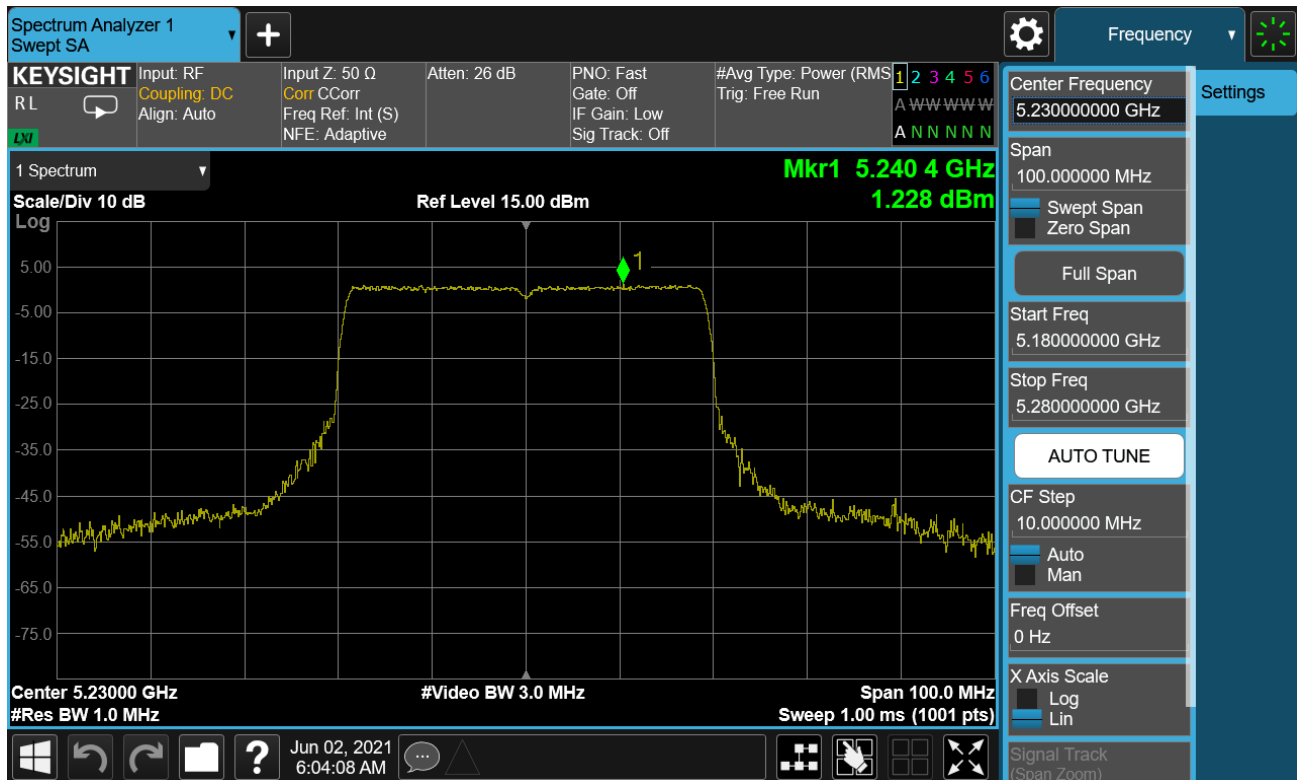


Plot 7-220. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

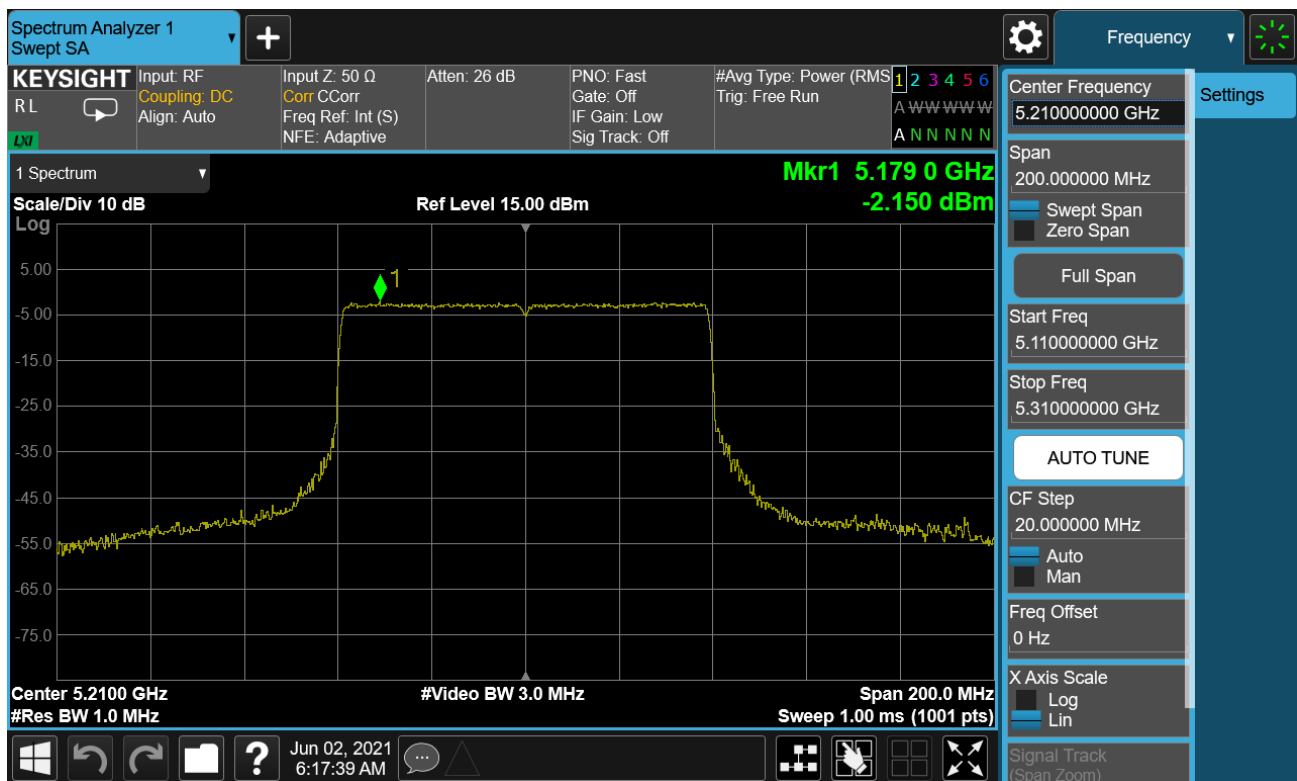


Plot 7-221. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 166 of 341

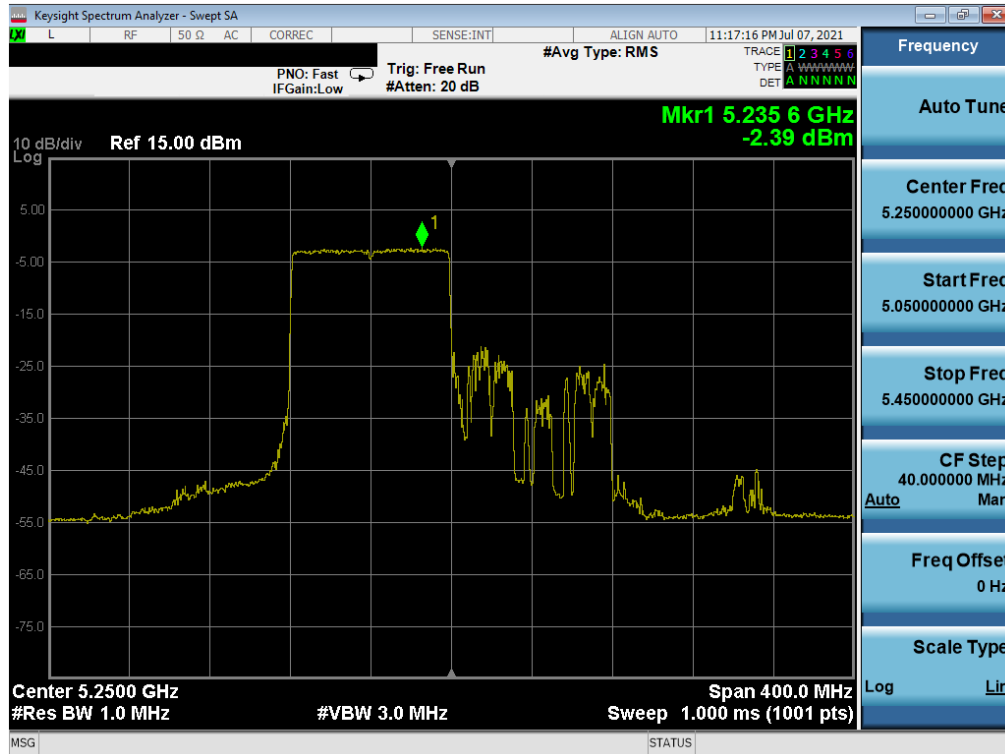


Plot 7-222. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

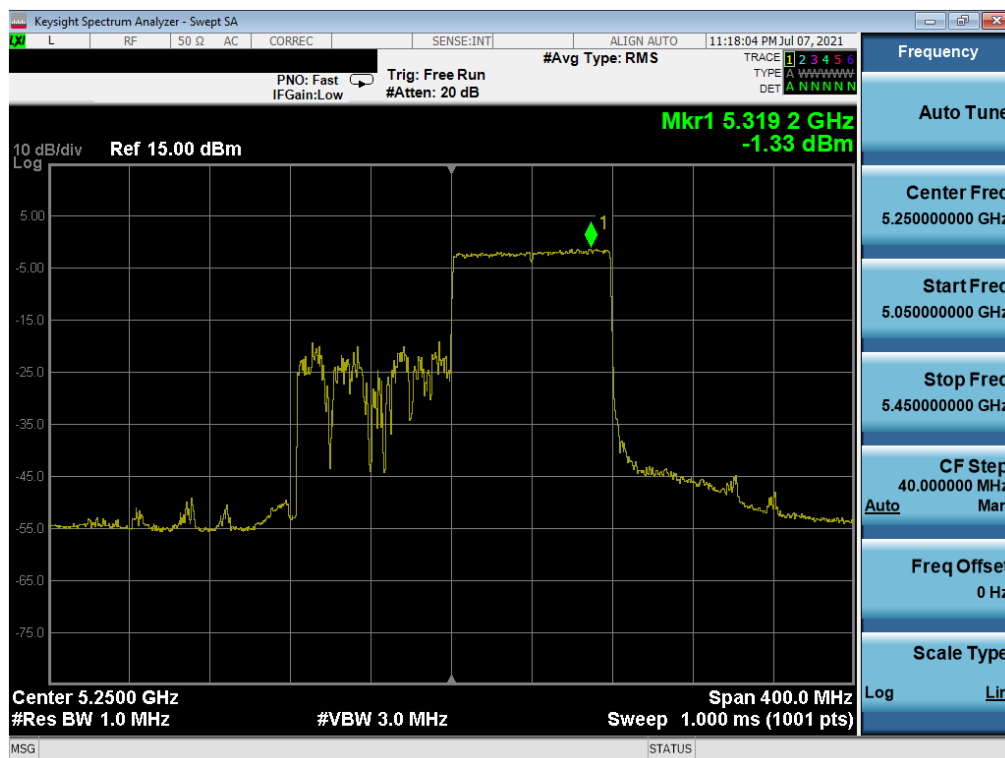


Plot 7-223. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 167 of 341

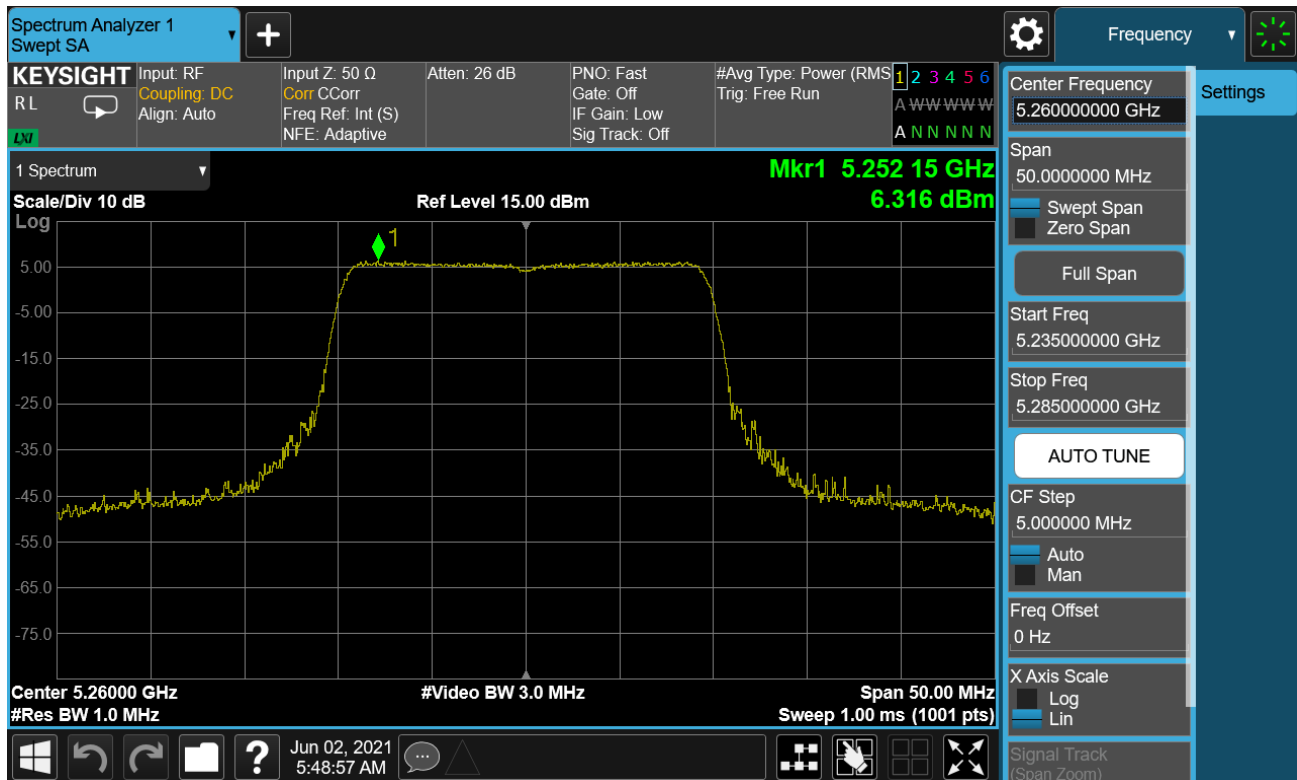


Plot 7-224. Power Spectral Density Plot SISO NORTH (160MHz BW (L) 802.11ax – Full Tones (UNII Band 1) – Ch. 50)

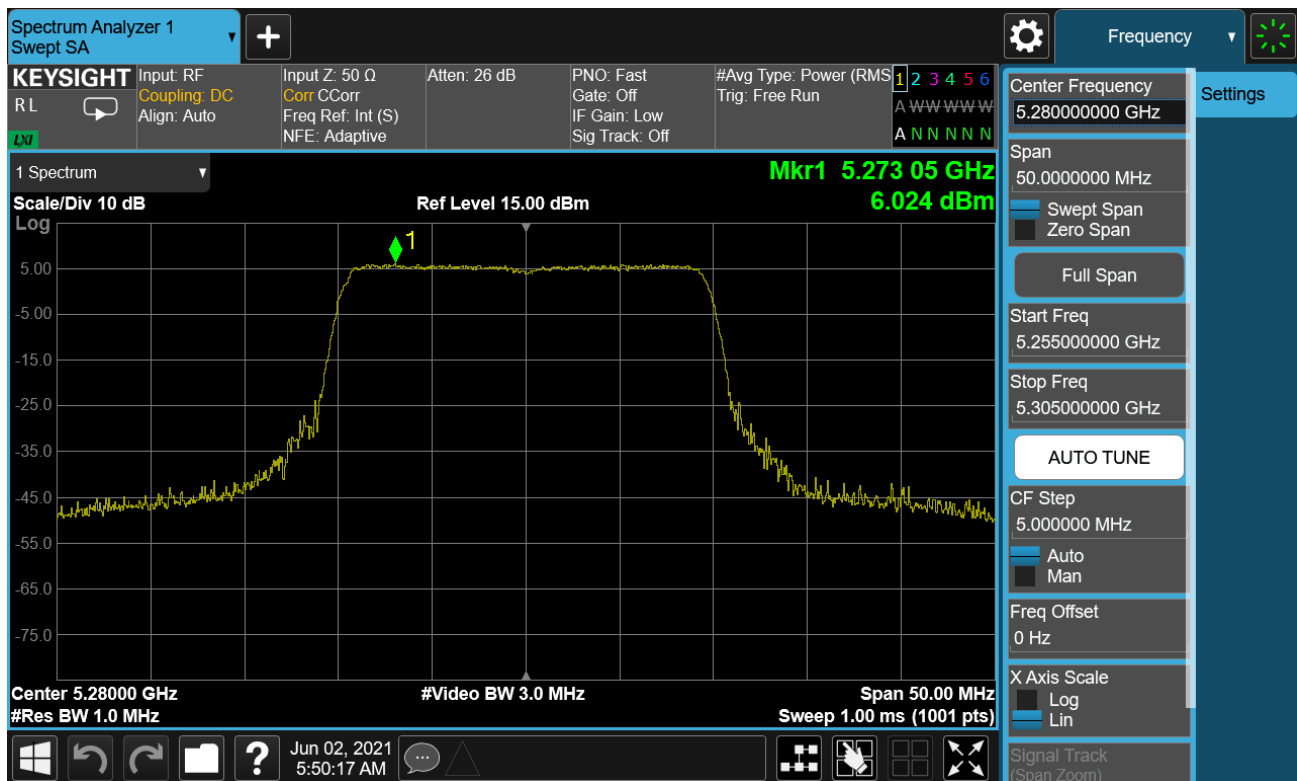


Plot 7-225. Power Spectral Density Plot SISO NORTH (160MHz BW (U) 802.11ax – Full Tones (UNII Band 2A) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 168 of 341

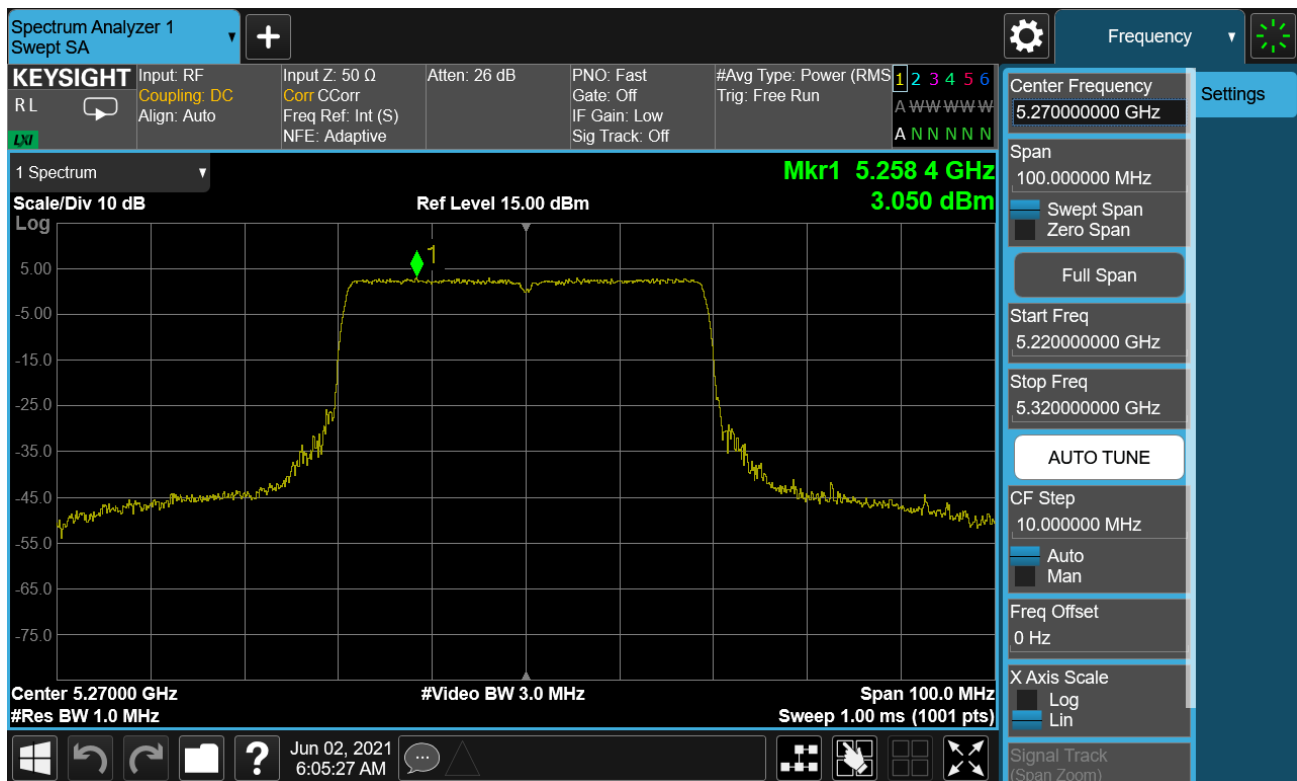
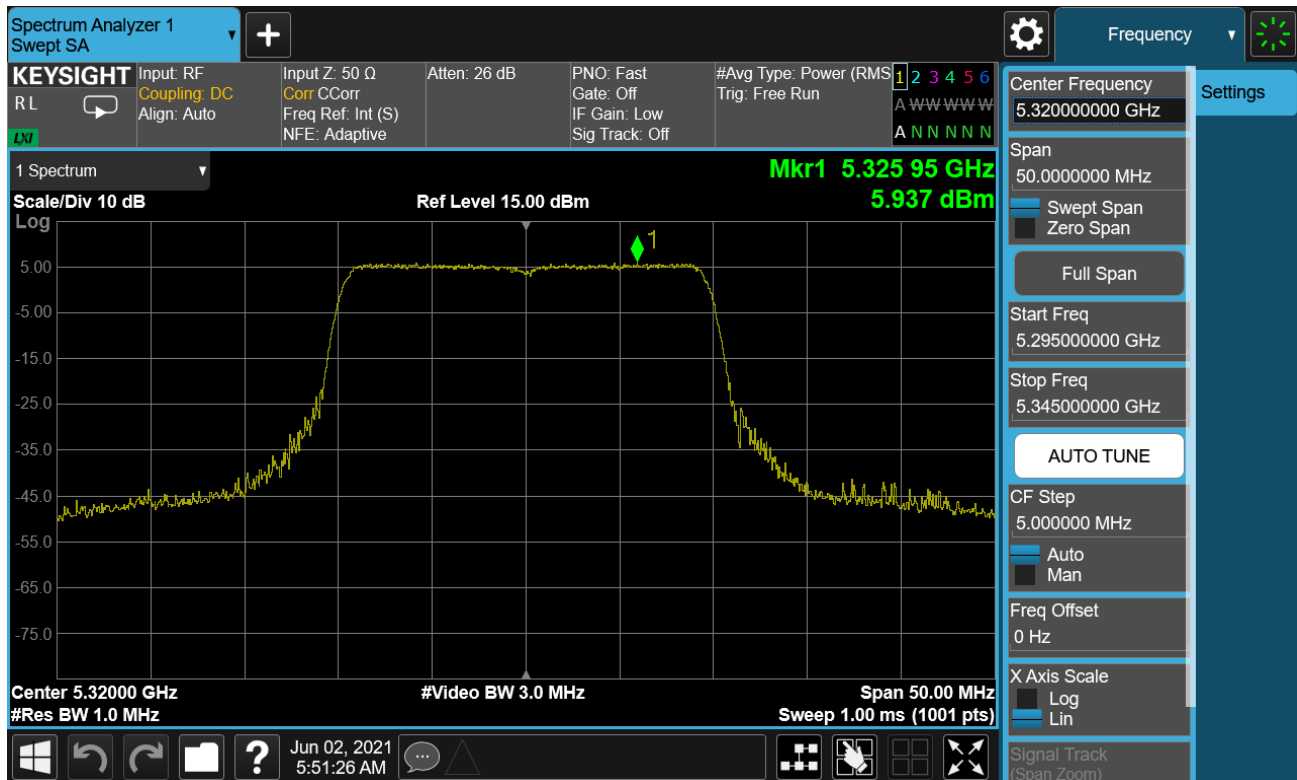


Plot 7-226. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)

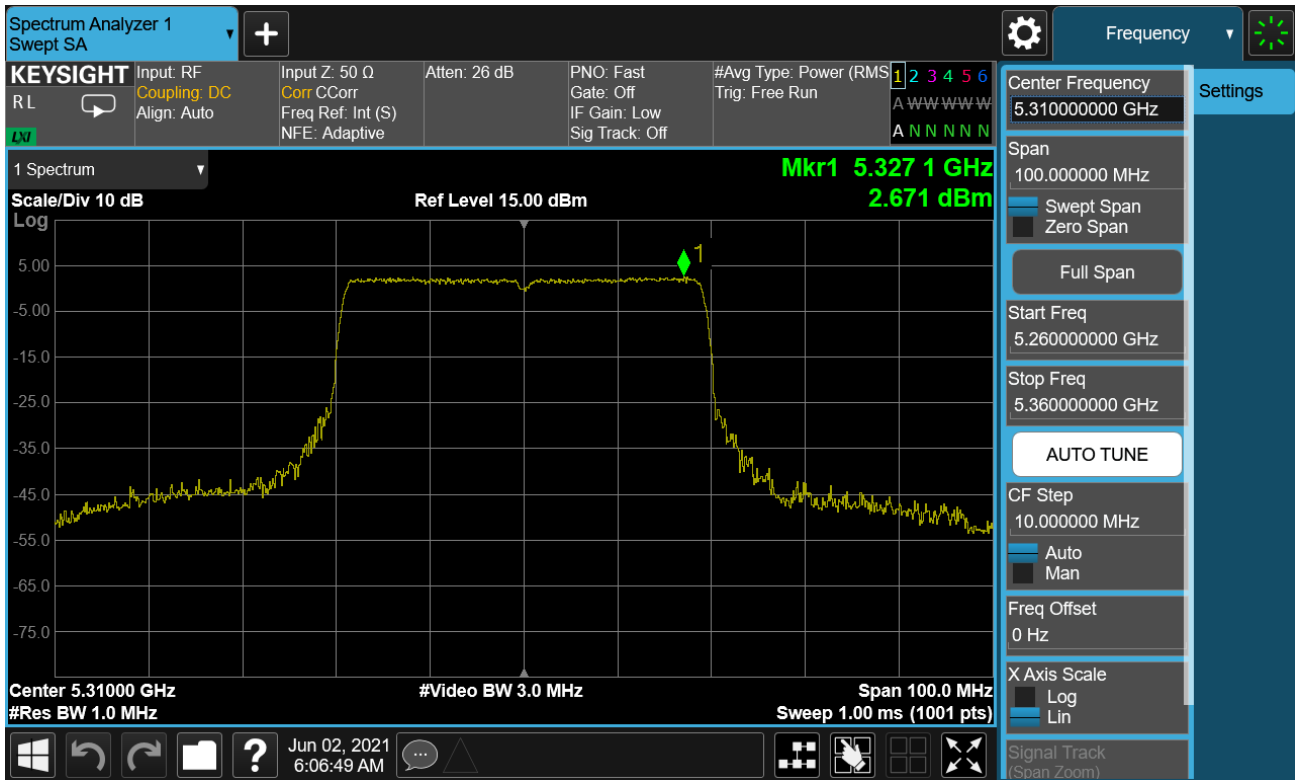


Plot 7-227. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

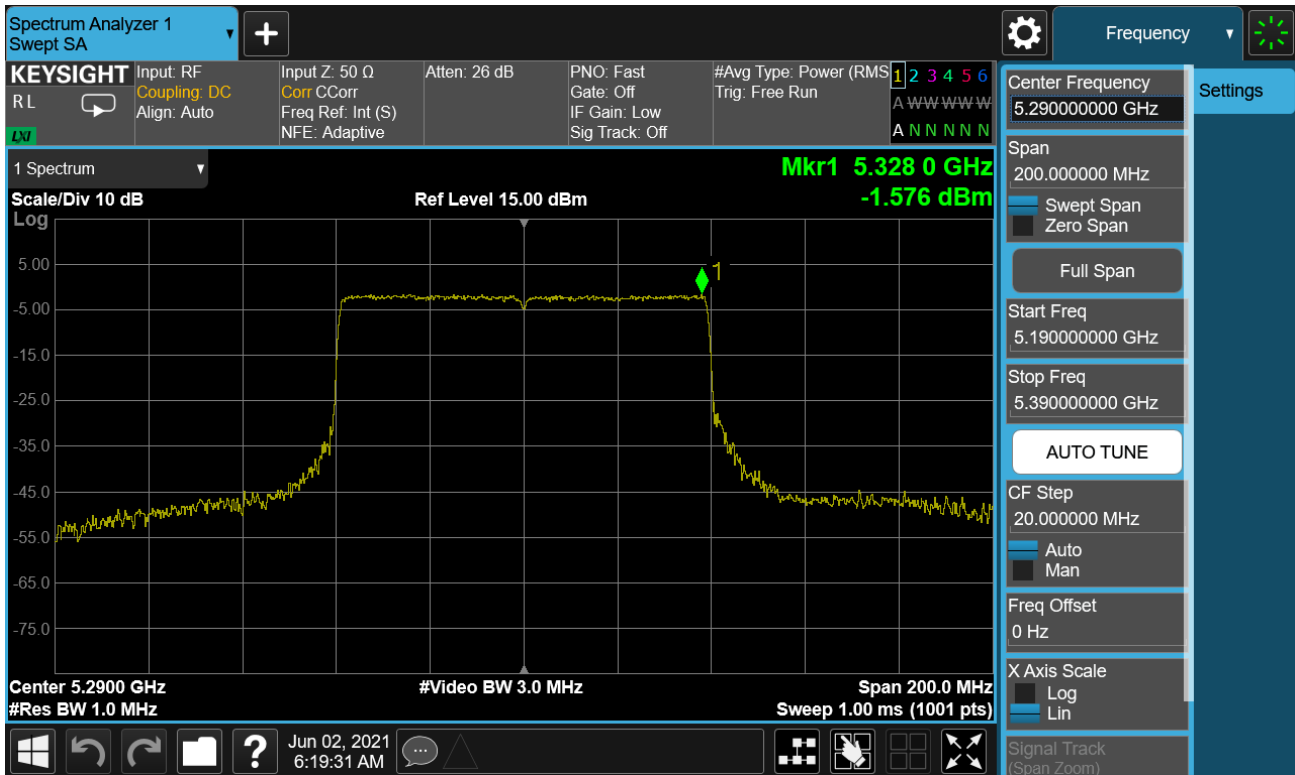
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 169 of 341



FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 170 of 341

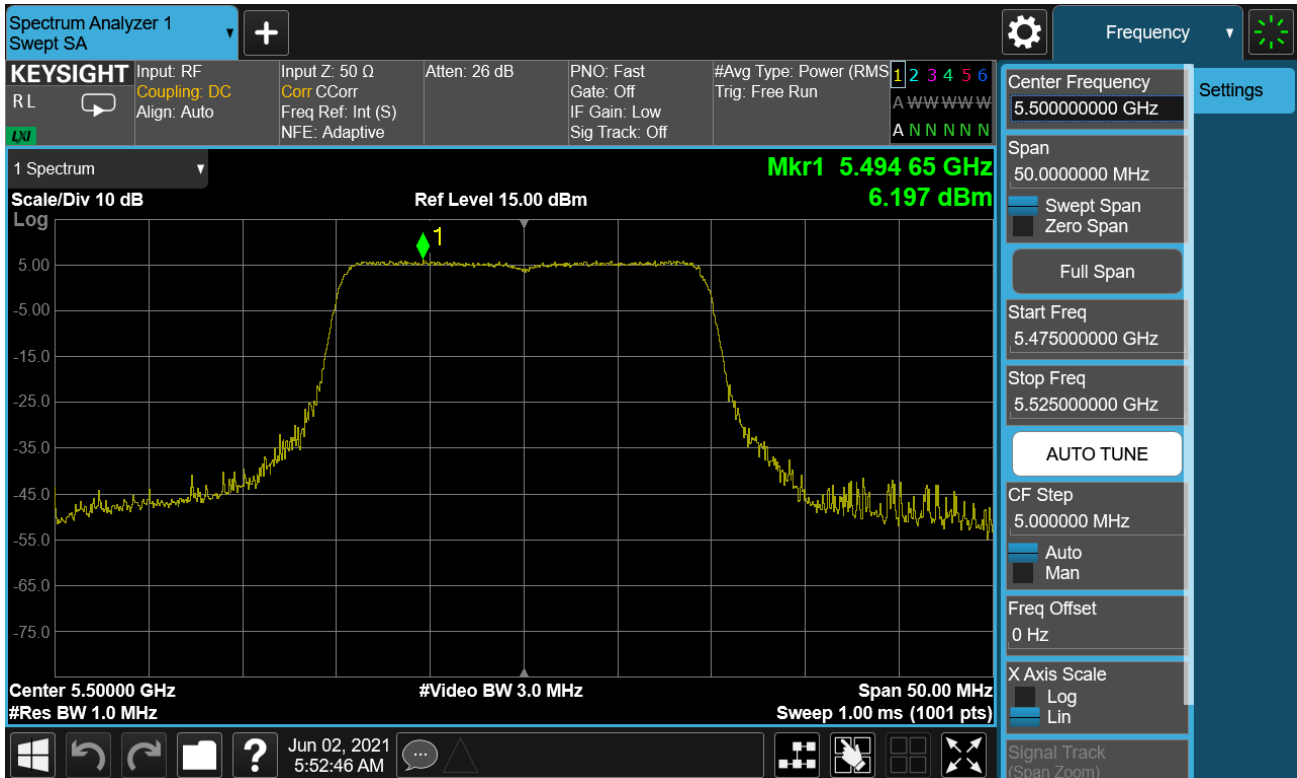


Plot 7-230. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

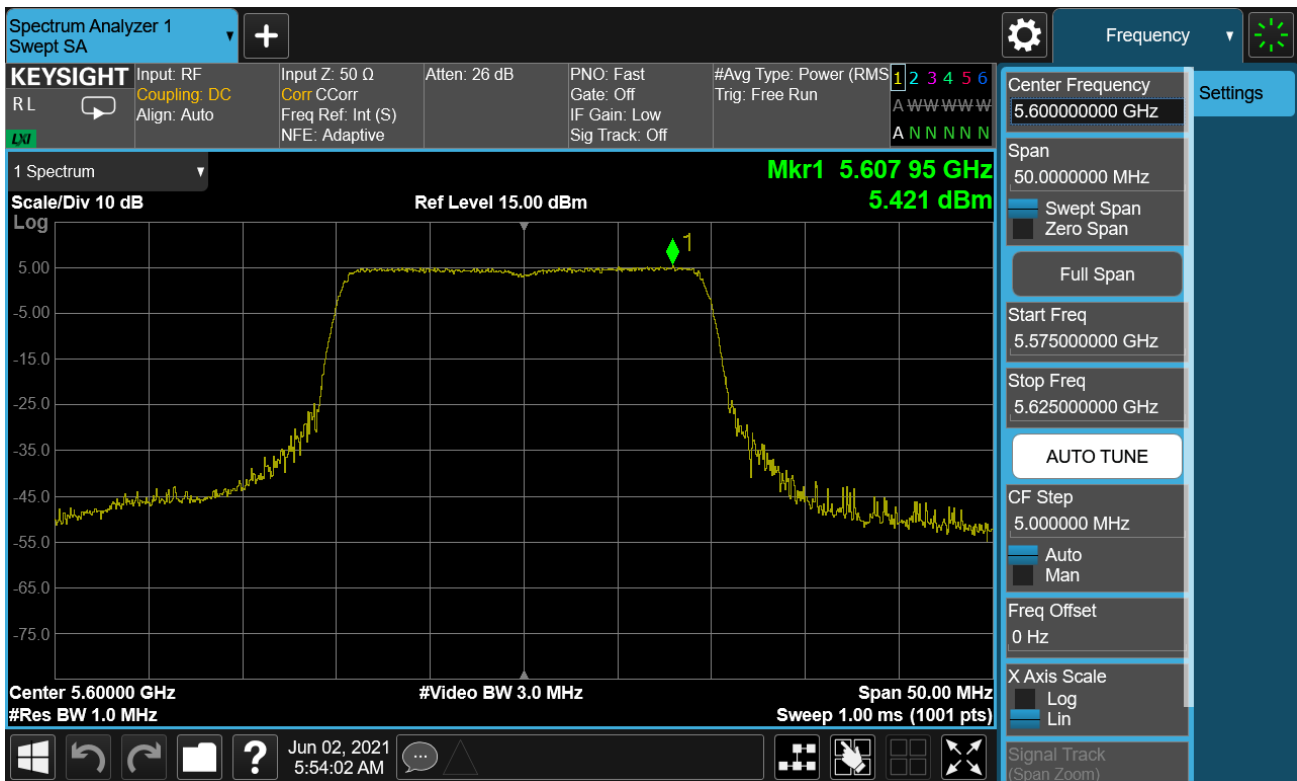


Plot 7-231. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 171 of 341

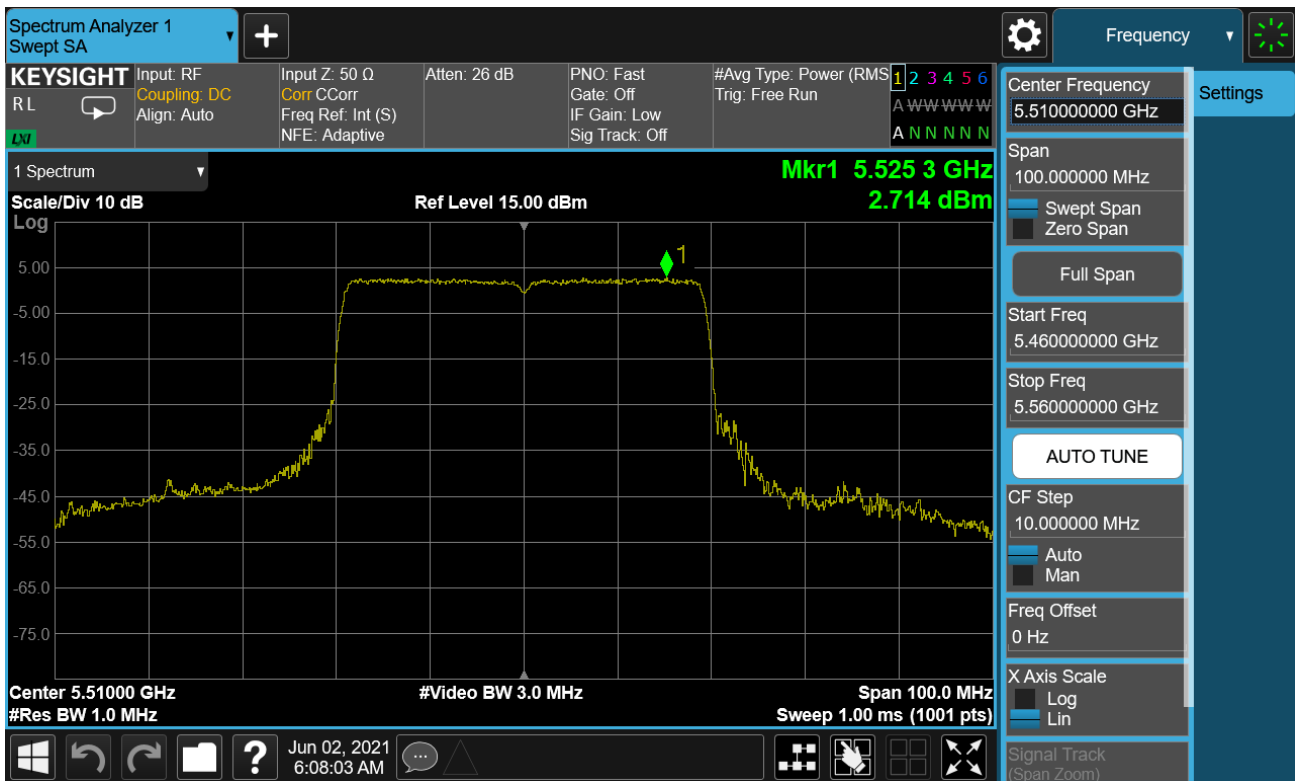
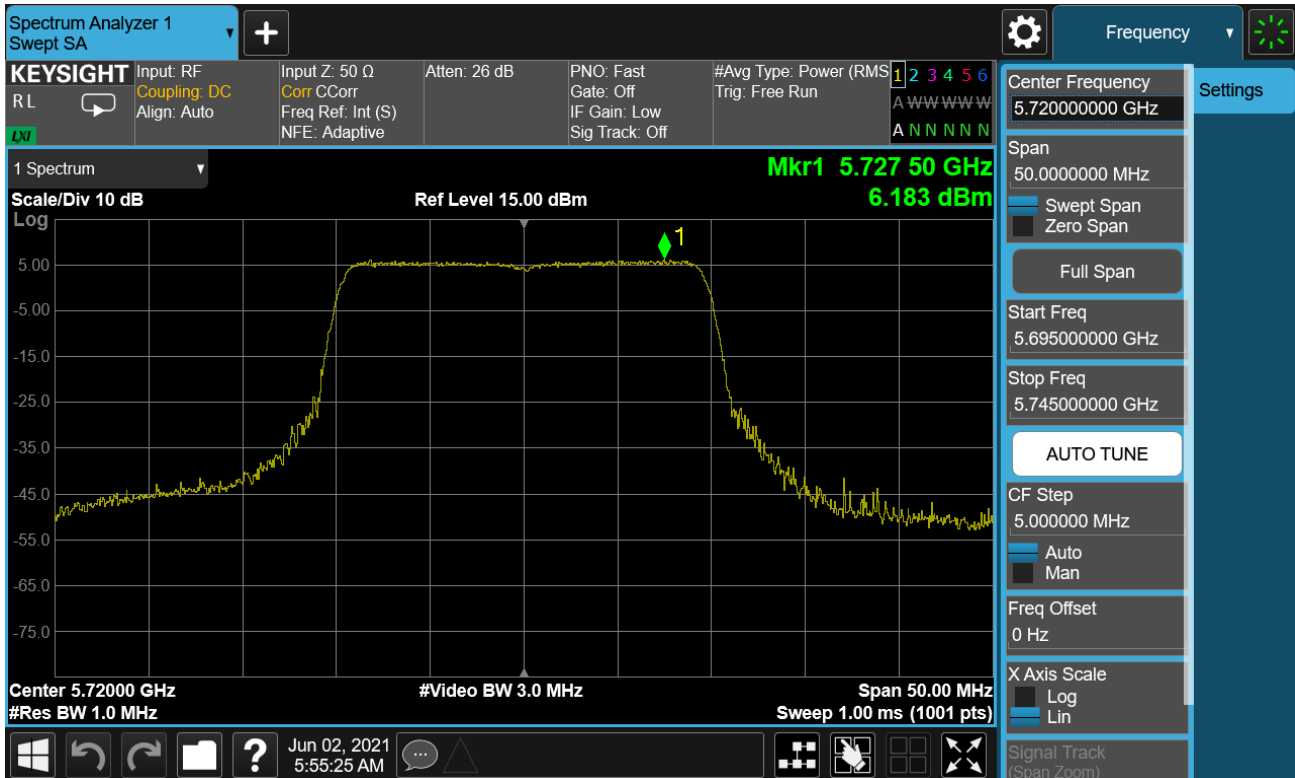


Plot 7-232. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

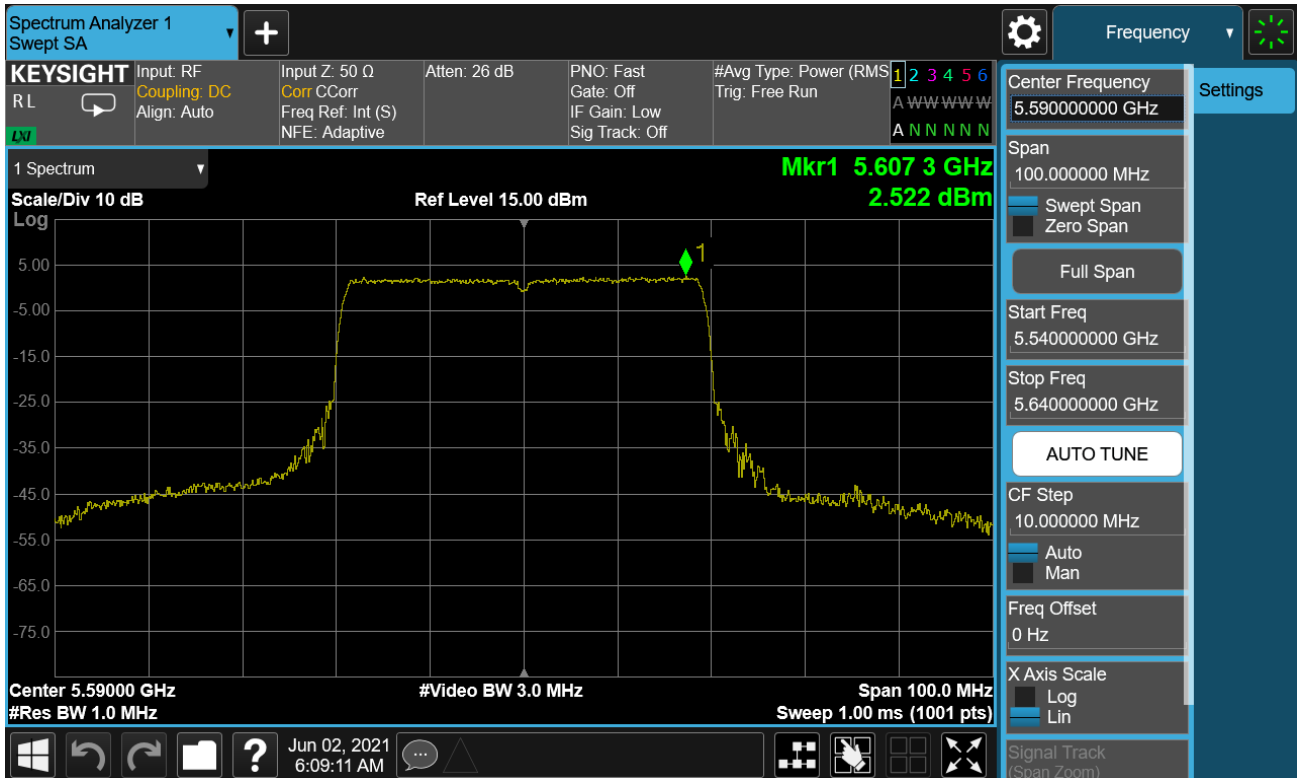


Plot 7-233. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

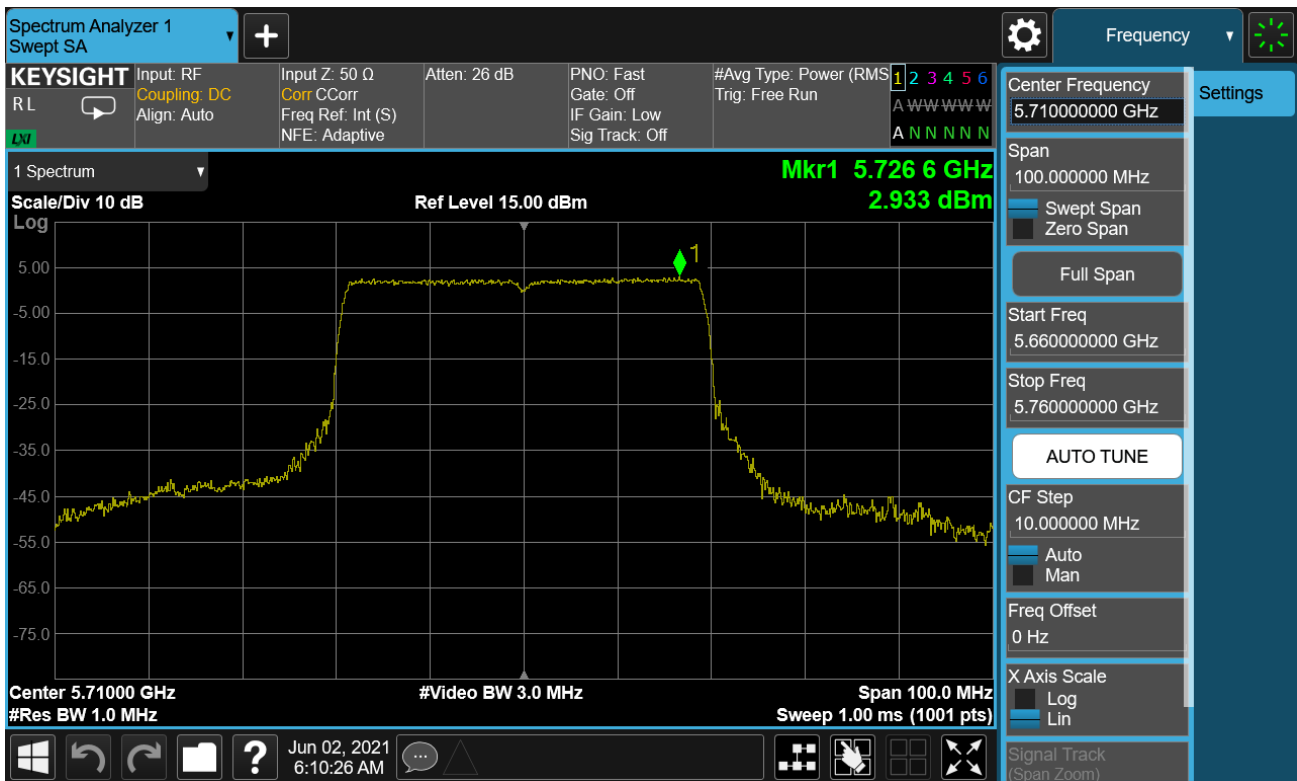
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 172 of 341



FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 173 of 341

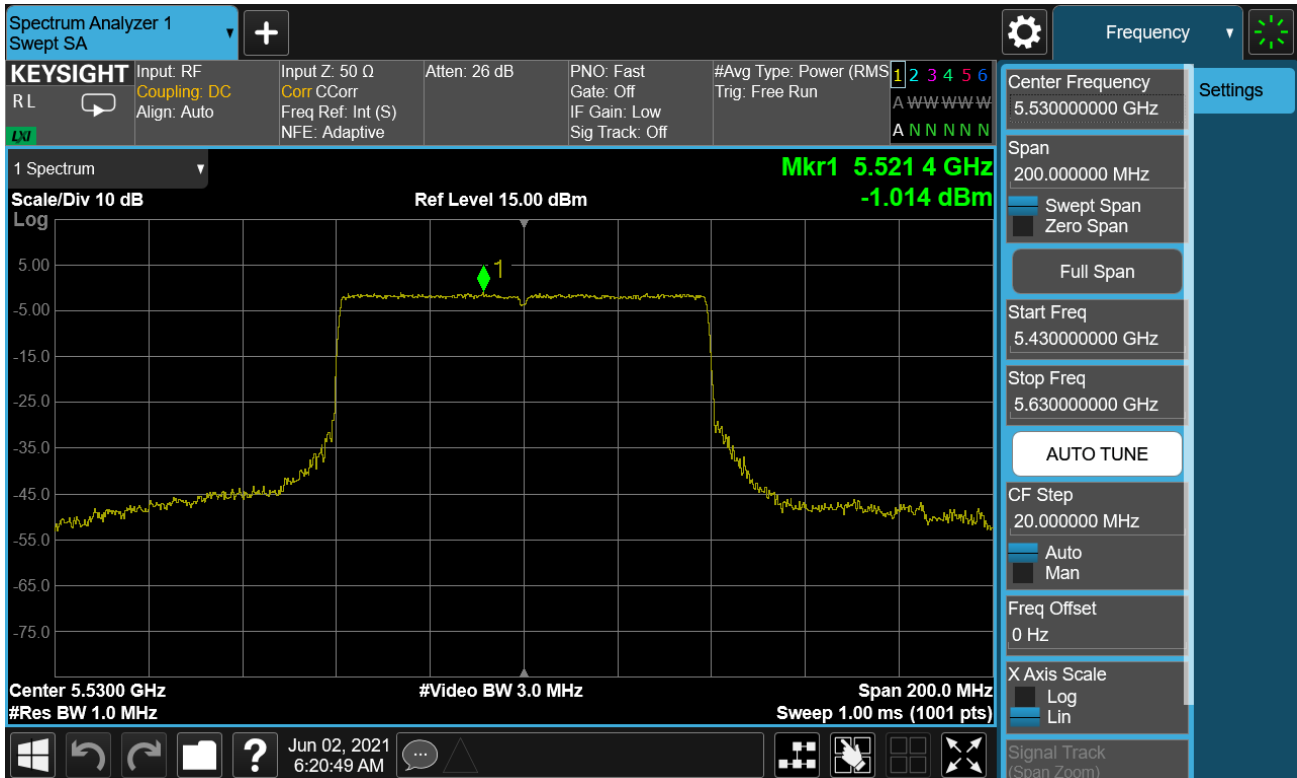


Plot 7-236. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

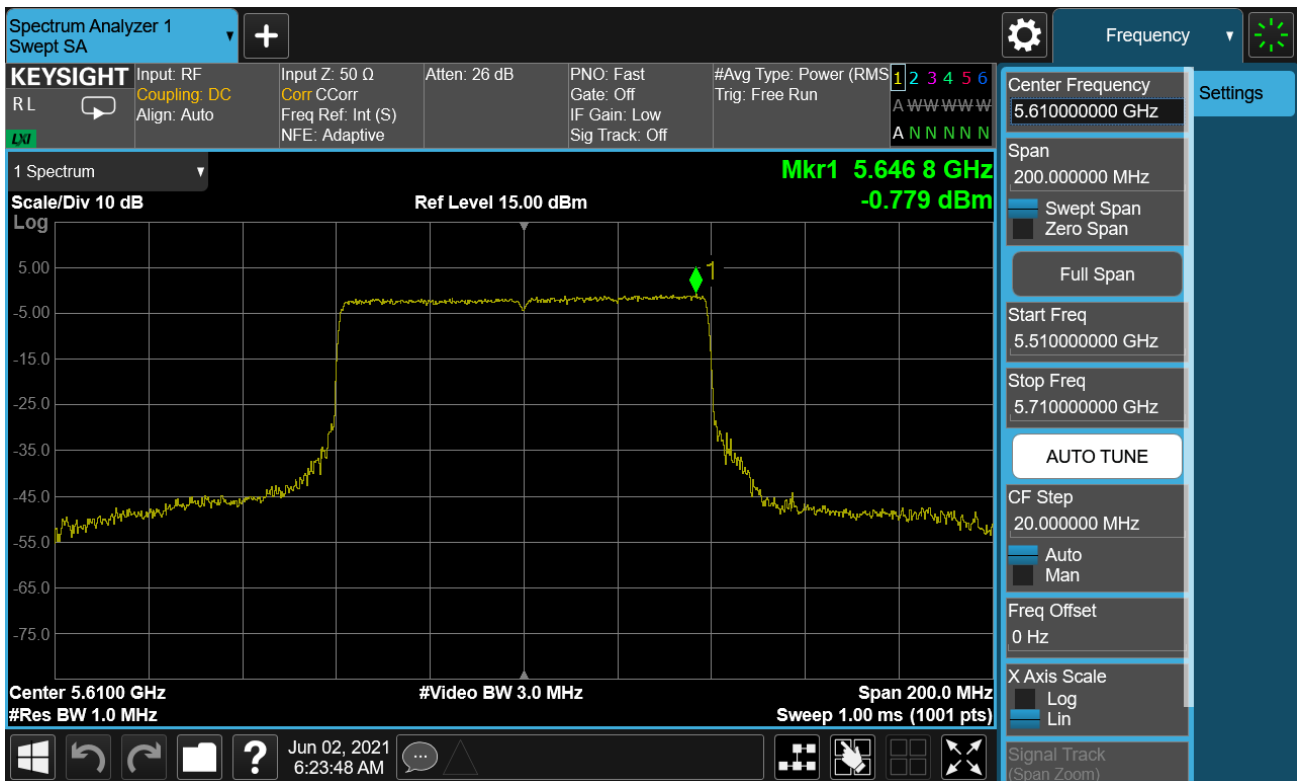


Plot 7-237. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 174 of 341

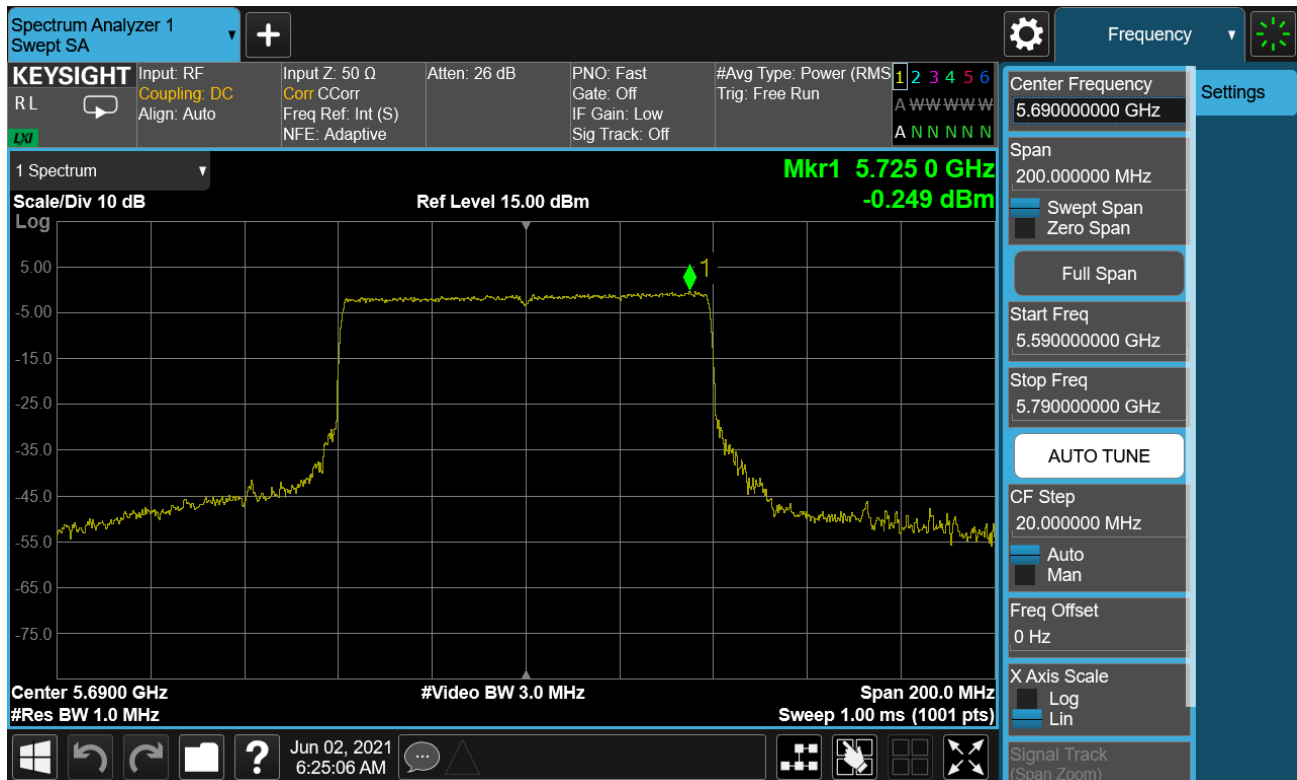


Plot 7-238. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

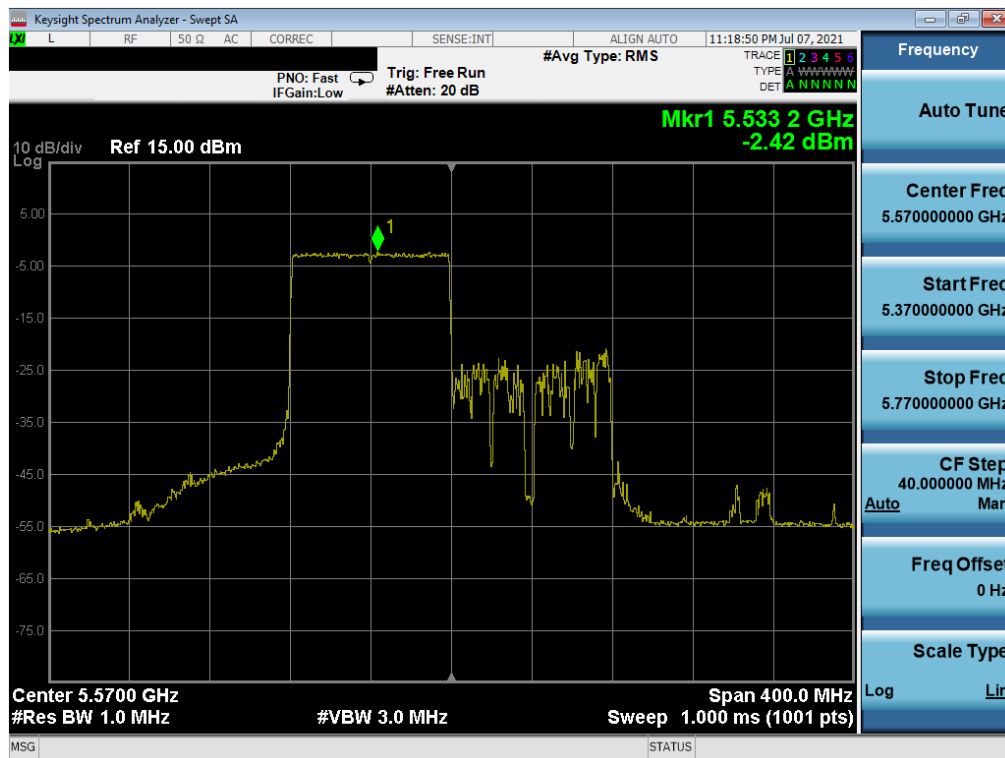


Plot 7-239. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 175 of 341

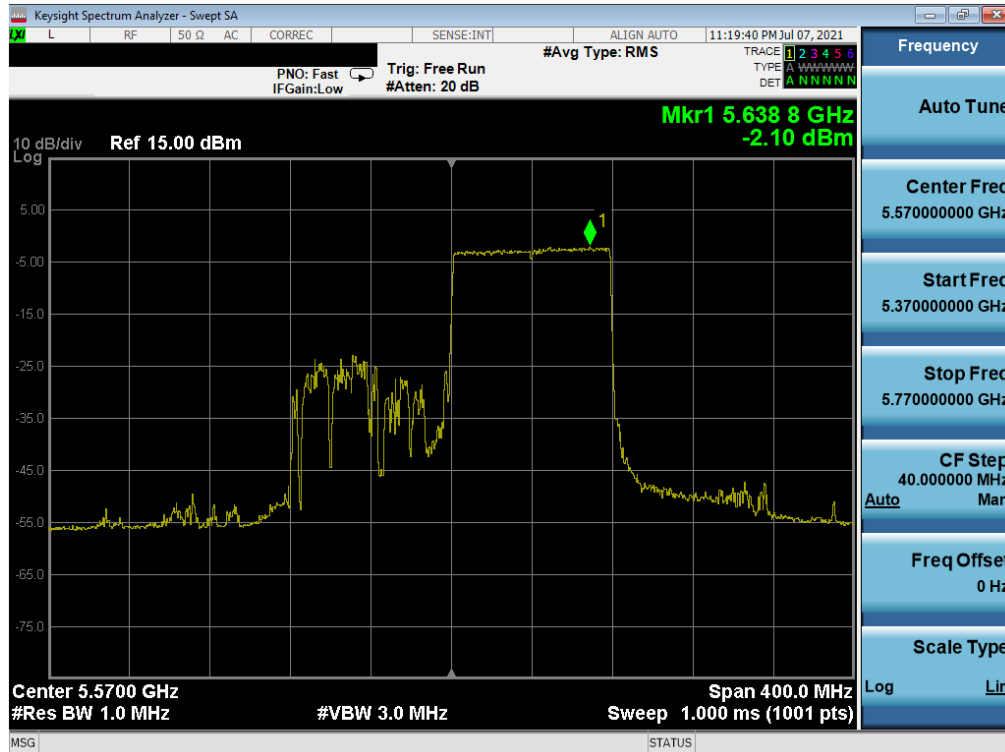


Plot 7-240. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)



Plot 7-241. Power Spectral Density Plot SISO NORTH (160MHz BW (L) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 176 of 341



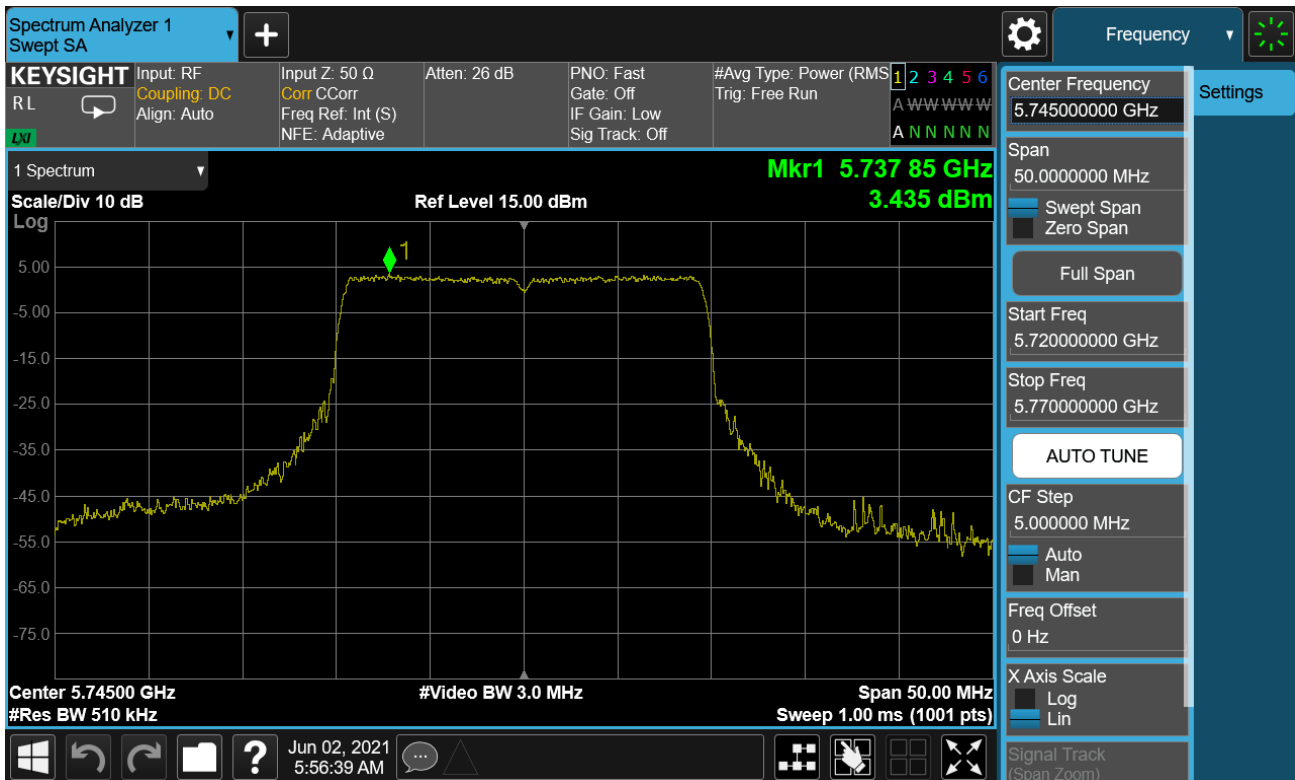
Plot 7-242. Power Spectral Density Plot SISO NORTH (160MHz BW (U) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 177 of 341

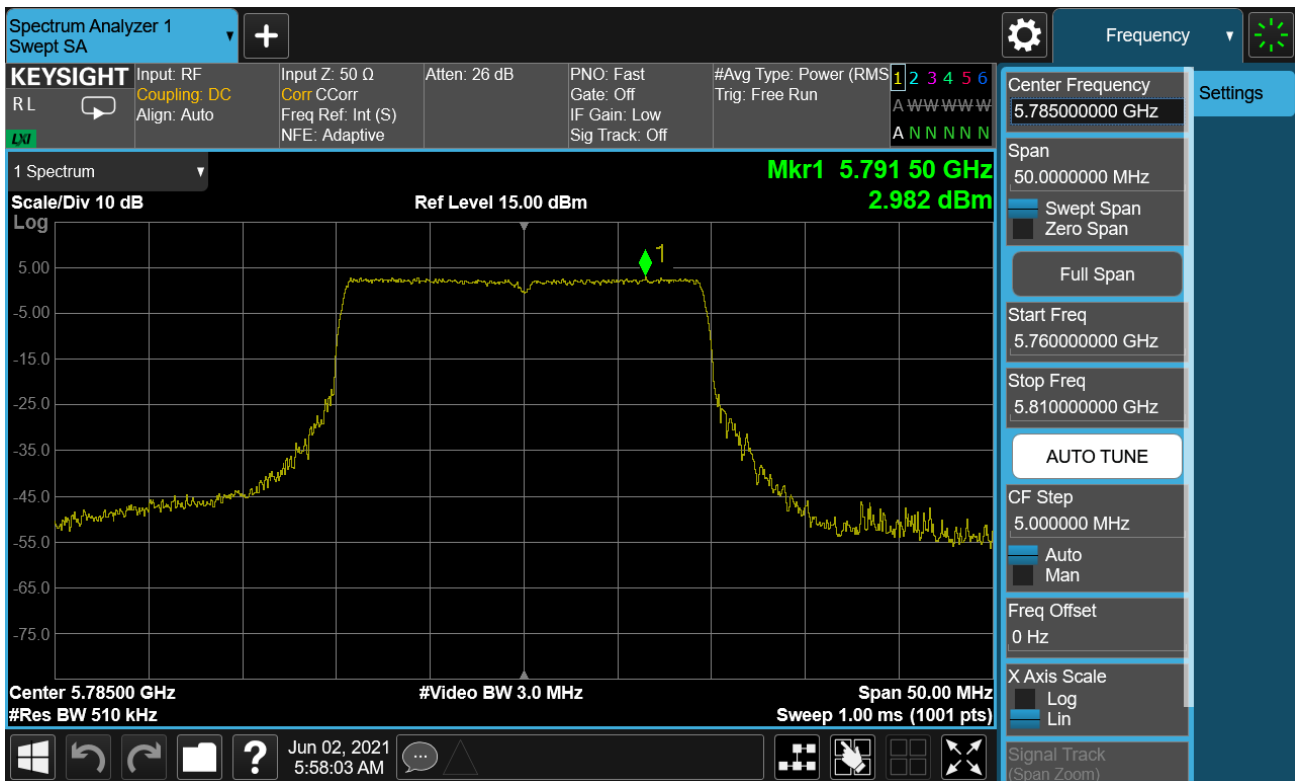
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	3.44	30.00	-26.57
	5785	157	ax (20MHz)	242T	MCS0	2.98	30.00	-27.02
	5825	165	ax (20MHz)	242T	MCS0	2.98	30.00	-27.02
	5755	151	ax (40MHz)	484T	MCS0	-1.05	30.00	-31.05
	5795	159	ax (40MHz)	484T	MCS0	-1.00	30.00	-31.00
	5775	155	ax (80MHz)	996T	MCS0	-3.97	30.00	-33.97

Table 7-102. Band 3 Conducted Power Spectral Density Measurements SISO NORTH (Full Tones)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 178 of 341

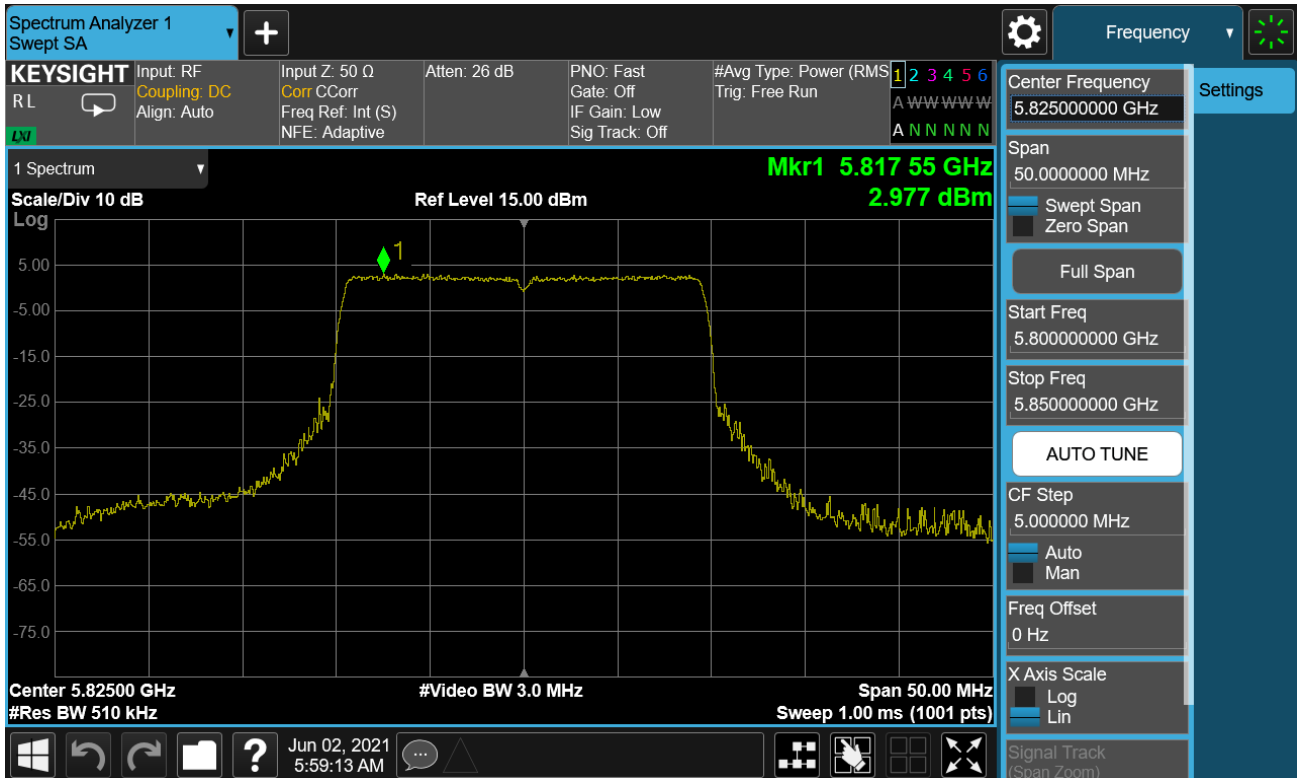


Plot 7-243. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

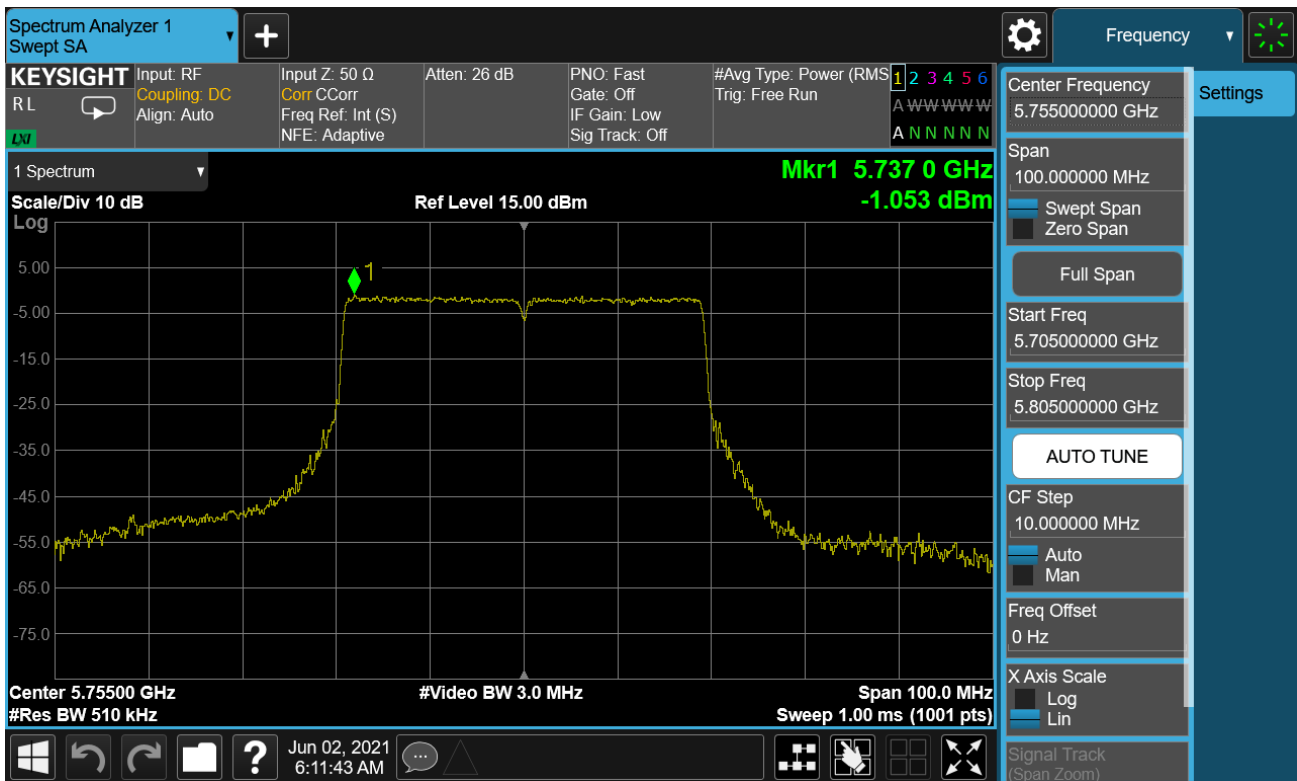


Plot 7-244. Power Spectral Density Plot SISO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 179 of 341

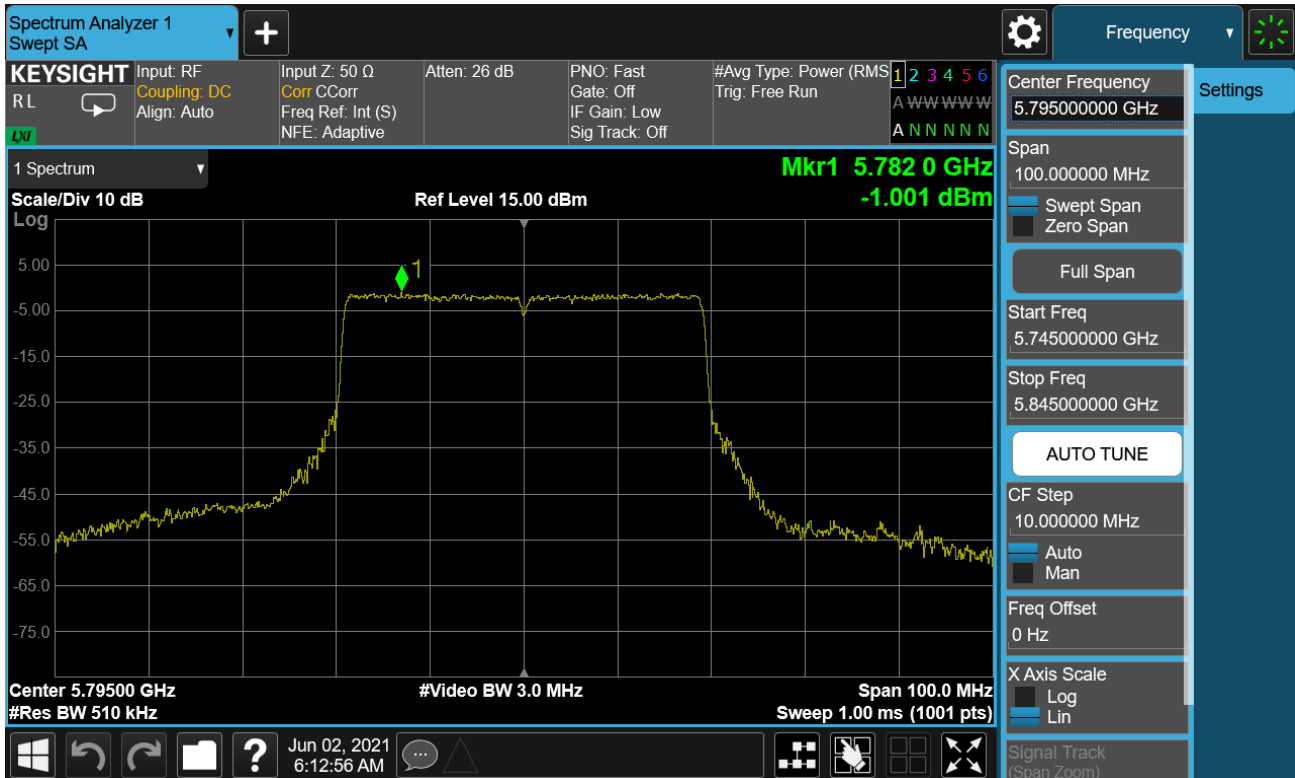


Plot 7-245. Power Spectral Density Plot SISO NORTH (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

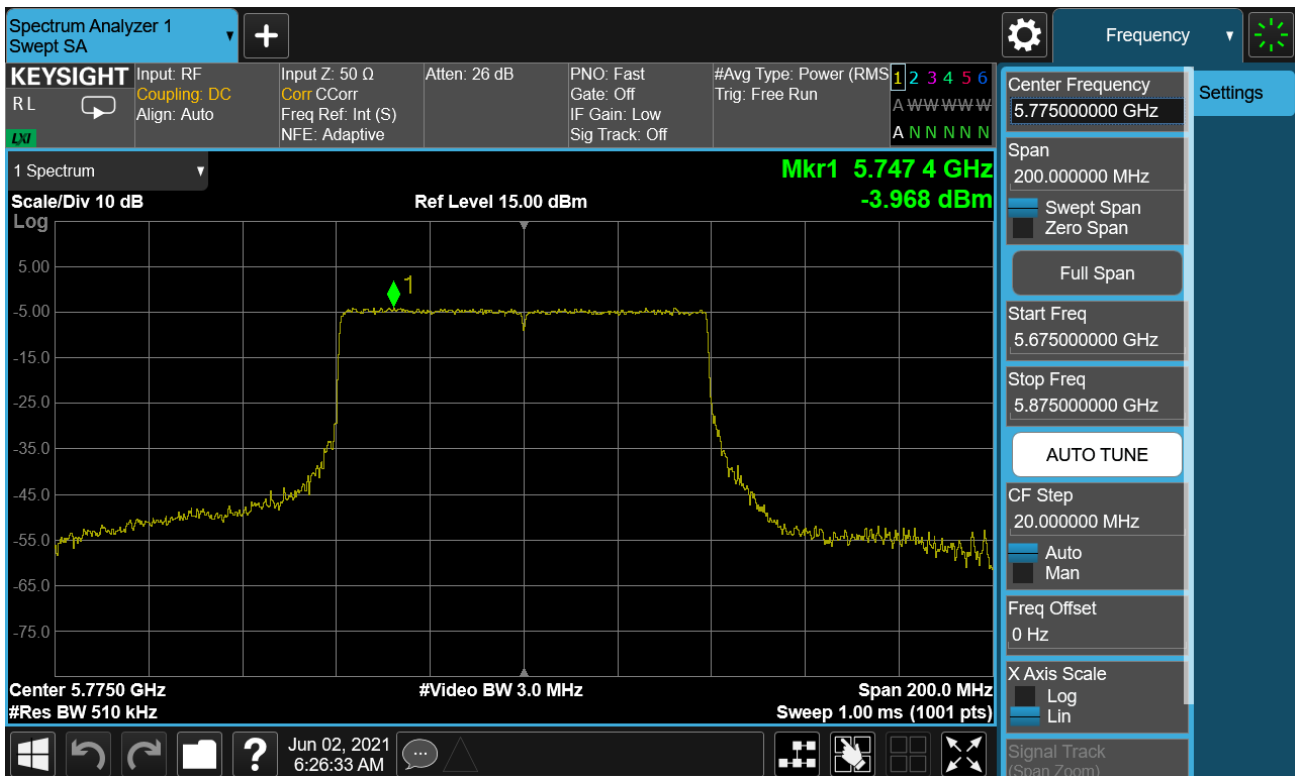


Plot 7-246. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 180 of 341



Plot 7-247. Power Spectral Density Plot SISO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-248. Power Spectral Density Plot SISO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 181 of 341

Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	1.12	-0.08	3.57	10.98	-7.41
	5200	40	ax (20MHz)	26T	MCS0	1.40	0.28	3.89	10.98	-7.09
	5240	48	ax (20MHz)	26T	MCS0	1.04	0.34	3.71	10.98	-7.27
	5190	38	ax (40MHz)	26T	MCS0	1.20	-0.63	3.39	10.98	-7.59
	5230	46	ax (40MHz)	26T	MCS0	1.18	0.31	3.78	10.98	-7.20
	5210	42	ax (80MHz)	26T	MCS0	0.99	0.38	3.71	10.98	-7.27
Band 1/2A	5250	50	ax (160 MHz L)	26T	MCS0	1.25	-1.18	3.21	10.98	-7.77
	5250	50	ax (160 MHz U)	26T	MCS0	7.16	6.74	9.96	10.53	-0.57
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.46	6.32	9.94	10.53	-0.59
	5280	56	ax (20MHz)	26T	MCS0	7.19	6.27	9.77	10.53	-0.76
	5320	64	ax (20MHz)	26T	MCS0	7.38	6.33	9.89	10.53	-0.64
	5270	54	ax (40MHz)	26T	MCS0	7.57	6.52	10.09	10.53	-0.44
	5310	62	ax (40MHz)	26T	MCS0	7.53	6.71	10.15	10.53	-0.38
	5290	58	ax (80MHz)	26T	MCS0	7.30	6.32	9.84	10.53	-0.69
Band 2C	5500	100	ax (20MHz)	26T	MCS0	7.10	5.71	9.47	10.61	-1.14
	5600	120	ax (20MHz)	26T	MCS0	7.54	7.34	10.45	10.61	-0.16
	5720	144	ax (20MHz)	26T	MCS0	7.70	6.57	10.18	10.61	-0.43
	5510	102	ax (40MHz)	26T	MCS0	7.42	7.27	10.36	10.61	-0.25
	5590	118	ax (40MHz)	26T	MCS0	7.15	7.57	10.38	10.61	-0.23
	5710	142	ax (40MHz)	26T	MCS0	7.63	7.08	10.37	10.61	-0.24
	5530	106	ax (80MHz)	26T	MCS0	7.77	7.22	10.51	10.61	-0.10
	5610	122	ax (80MHz)	26T	MCS0	7.72	7.39	10.57	10.61	-0.04
	5690	138	ax (80MHz)	26T	MCS0	7.88	6.37	10.20	10.61	-0.41
	5570	114	ax (160 MHz L)	26T	MCS0	7.43	6.78	10.12	10.61	-0.49
	5570	114	ax (160 MHz U)	26T	MCS0	7.51	6.36	9.98	10.61	-0.63

Table 7-103. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	1.12	-0.08	3.57	6.02	9.59	10.0	-0.41
	5200	40	ax (20MHz)	26T	MCS0	1.40	0.28	3.89	6.02	9.90	10.0	-0.10
	5240	48	ax (20MHz)	26T	MCS0	1.04	0.34	3.71	6.02	9.73	10.0	-0.27
	5190	38	ax (40MHz)	26T	MCS0	1.20	-0.63	3.39	6.02	9.41	10.0	-0.59
	5230	46	ax (40MHz)	26T	MCS0	1.18	0.31	3.78	6.02	9.79	10.0	-0.21
	5210	42	ax (80MHz)	26T	MCS0	0.99	0.38	3.71	6.02	9.73	10.0	-0.27
	5210	50	ax (160 MHz L)	26T	MCS0	1.25	-1.18	3.21	6.02	9.23	10.0	-0.77
	5210	50	ax (160 MHz U)	26T	MCS0	7.16	6.74	9.96	6.02	10.53	10.0	-0.57

Table 7-104. Bands 1 e.i.r.p. Conducted Power Spectral Density Measurements MIMO (26 Tones) (ISED)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	10.69	11.04	13.88	30.00	-16.12
	5785	157	ax (20MHz)	26T	MCS0	11.75	10.89	14.35	30.00	-15.65
	5825	165	ax (20MHz)	26T	MCS0	12.19	9.83	14.18	30.00	-15.82
	5755	151	ax (40MHz)	26T	MCS0	12.10	11.74	14.93	30.00	-15.07
	5795	159	ax (40MHz)	26T	MCS0	12.41	11.08	14.81	30.00	-15.19
	5775	155	ax (80MHz)	26T	MCS0	15.30	11.67	16.86	30.00	-13.14

Table 7-105. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: C3K1995 IC: 3048A-1995		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 182 of 341	

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	0.94	-0.30	3.37	10.98	10.98
	5200	40	ax (20MHz)	242T	MCS0	0.95	0.56	3.77	10.98	10.98
	5240	48	ax (20MHz)	242T	MCS0	1.17	0.65	3.93	10.98	10.98
	5190	38	ax (40MHz)	484T	MCS0	0.27	-1.23	2.59	10.98	10.98
	5230	46	ax (40MHz)	484T	MCS0	0.41	-0.29	3.08	10.98	10.98
	5210	42	ax (80MHz)	996T	MCS0	-1.76	-2.65	0.83	10.98	10.98
Band 1/2A	5250	50	ax (160 MHz L)	996T	MCS0	-1.91	-2.36	0.88	10.98	-10.10
	5250	50	ax (160 MHz U)	996T	MCS0	-1.09	-1.59	1.68	10.53	-8.85
Band 2A	5260	52	ax (20MHz)	242T	MCS0	6.20	5.66	8.95	10.53	10.53
	5280	56	ax (20MHz)	242T	MCS0	5.99	5.45	8.74	10.53	10.53
	5320	64	ax (20MHz)	242T	MCS0	6.33	5.69	9.04	10.53	10.53
	5270	54	ax (40MHz)	484T	MCS0	2.96	2.34	5.67	10.53	10.53
	5310	62	ax (40MHz)	484T	MCS0	2.89	2.45	5.69	10.53	10.53
	5290	58	ax (80MHz)	996T	MCS0	-1.16	-1.57	1.65	10.53	10.53
Band 2C	5500	100	ax (20MHz)	242T	MCS0	6.18	4.78	8.54	10.61	10.61
	5600	120	ax (20MHz)	242T	MCS0	5.74	5.10	8.44	10.61	10.61
	5720	144	ax (20MHz)	242T	MCS0	6.44	5.20	8.87	10.61	10.61
	5510	102	ax (40MHz)	484T	MCS0	3.50	2.52	6.05	10.61	10.61
	5590	118	ax (40MHz)	484T	MCS0	2.98	2.57	5.79	10.61	10.61
	5710	142	ax (40MHz)	484T	MCS0	3.84	2.61	6.28	10.61	10.61
	5530	106	ax (80MHz)	996T	MCS0	-1.00	-1.75	1.65	10.61	10.61
	5610	122	ax (80MHz)	996T	MCS0	-0.79	-1.83	1.73	10.61	10.61
	5690	138	ax (80MHz)	996T	MCS0	-0.46	-1.76	1.95	10.61	10.61
	5570	114	ax (160 MHz L)	996T	MCS0	-1.55	-2.37	1.07	10.61	-9.54
	5570	114	ax (160 MHz U)	996T	MCS0	-1.40	-2.03	1.31	10.61	-9.30

Table 7-106. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	0.94	-0.30	3.37	6.02	9.39	10.0	-0.61
	5200	40	ax (20MHz)	242T	MCS0	0.95	0.56	3.77	6.02	9.79	10.0	-0.21
	5240	48	ax (20MHz)	242T	MCS0	1.17	0.65	3.93	6.02	9.95	10.0	-0.05
	5190	38	ax (40MHz)	484T	MCS0	0.27	-1.23	2.59	6.02	8.61	10.0	-1.39
	5230	46	ax (40MHz)	484T	MCS0	0.41	-0.29	3.08	6.02	9.10	10.0	-0.90
	5210	42	ax (80MHz)	996T	MCS0	-1.76	-2.65	0.83	6.02	6.85	10.0	-3.15
	5210	50	ax (160 MHz L)	996T	MCS0	-1.91	-2.36	0.88	6.02	6.90	10.0	-3.10

Table 7-107. Bands 1 e.i.r.p. Conducted Power Spectral Density Measurements MIMO (Full Tones) (ISED)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 183 of 341

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	South Power Density [dBm]	North Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.47	1.79	5.15	30.00	-24.85
	5785	157	ax (20MHz)	242T	MCS0	3.01	1.87	5.49	30.00	-24.51
	5825	165	ax (20MHz)	242T	MCS0	3.44	2.23	5.89	30.00	-24.11
	5755	151	ax (40MHz)	484T	MCS0	-2.56	-1.74	0.88	30.00	-29.12
	5795	159	ax (40MHz)	484T	MCS0	-0.83	-2.38	1.47	30.00	-28.53
	5775	155	ax (80MHz)	996T	MCS0	-3.66	-4.74	-1.16	30.00	-31.16

Table 7-108. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 184 of 341

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at South Antenna and North Antenna were first measured separately with reduced South Antenna and North Antenna 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 6.2 dBi for SOUTH and -2.10 dBi for NORTH.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{6.2/20} + 10^{-2.10/20} / 2] \text{ dBi} \\ &= (6.02) \text{ dBi}\end{aligned}$$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for SOUTH and 6.27 dBm for NORTH.

South Antenna + North Antenna = 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:

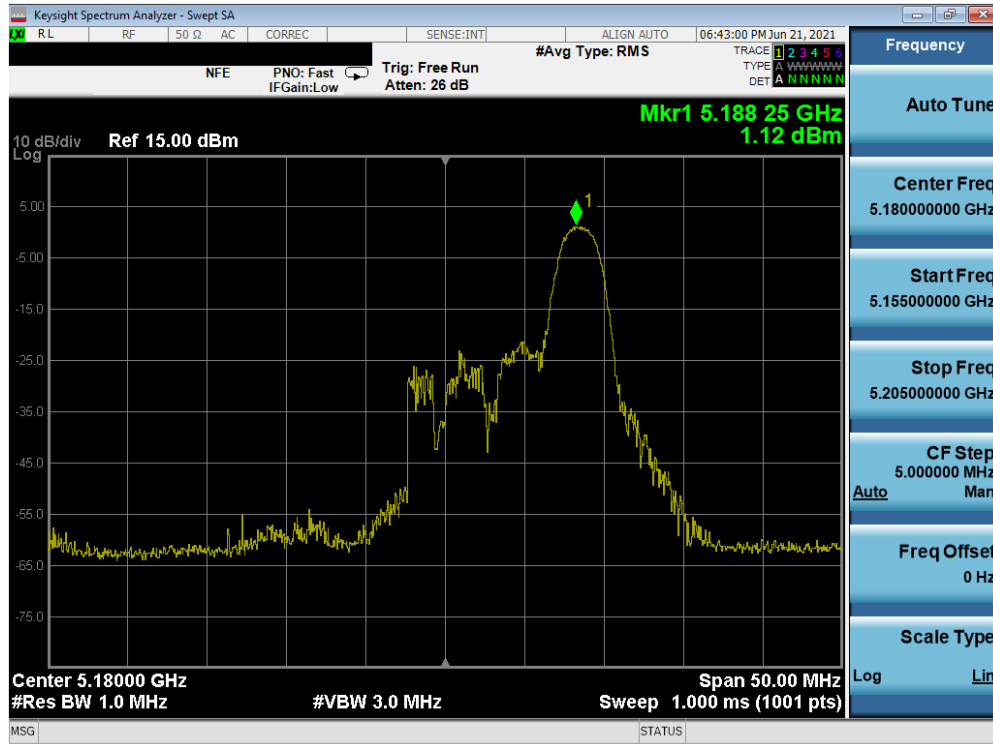
Assuming the average MIMO power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

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

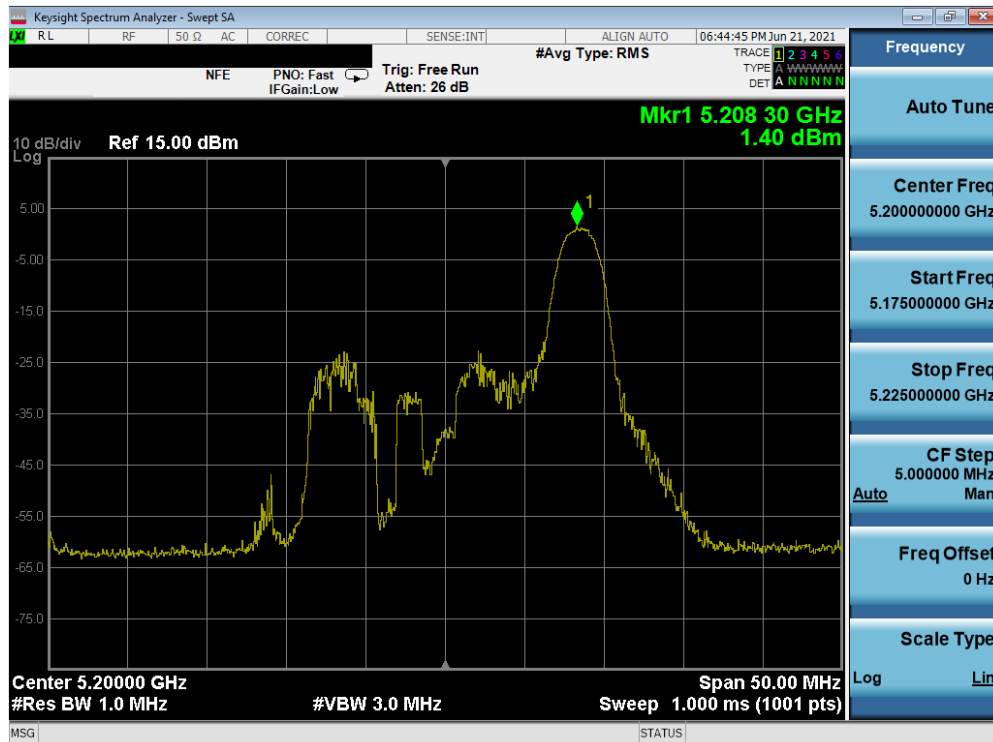
$$9.09 \text{ dBm} + (-5.12) \text{ dBi} = 3.97 \text{ dBm}$$

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 185 of 341

MIMO SOUTH Power Spectral Density Measurements (26 Tones)

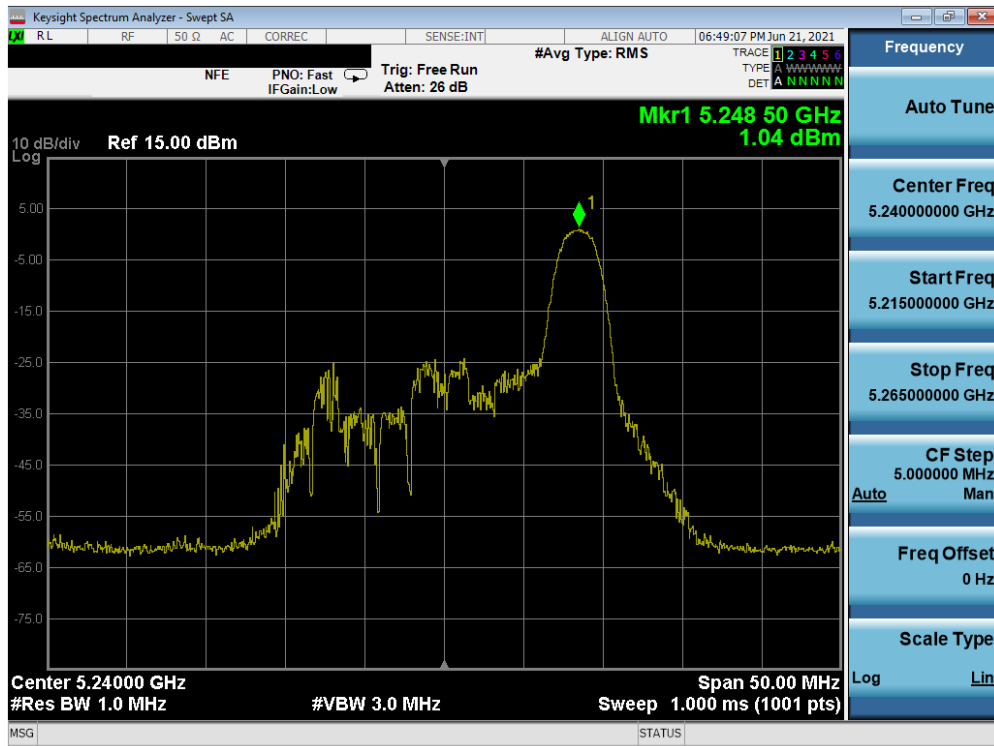


Plot 7-249. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

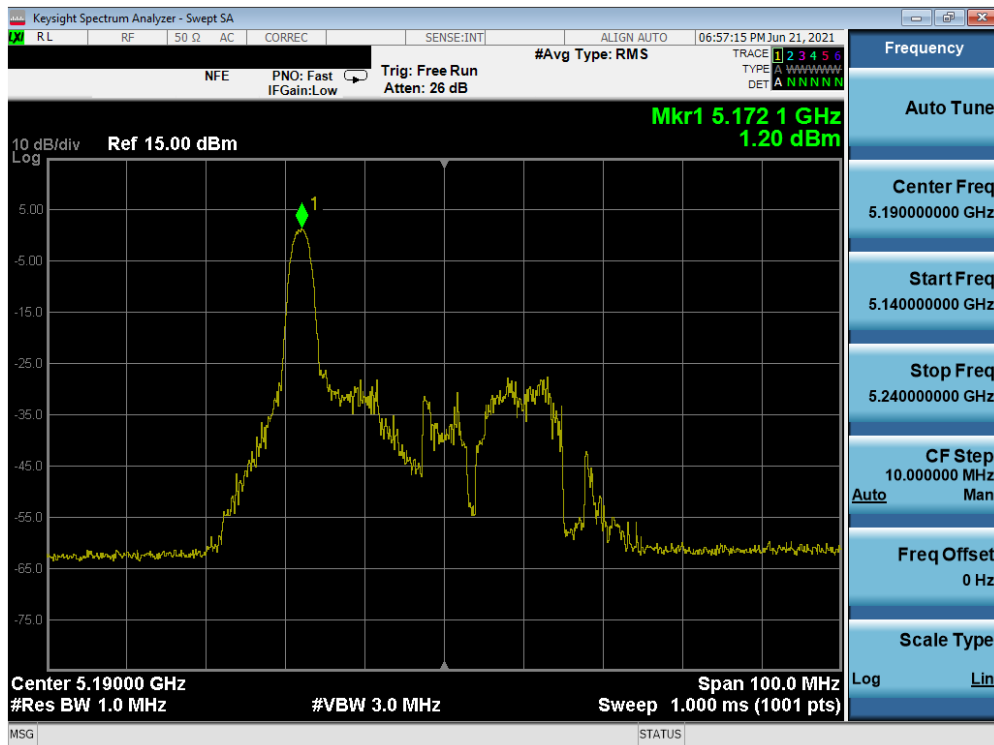


Plot 7-250. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 186 of 341

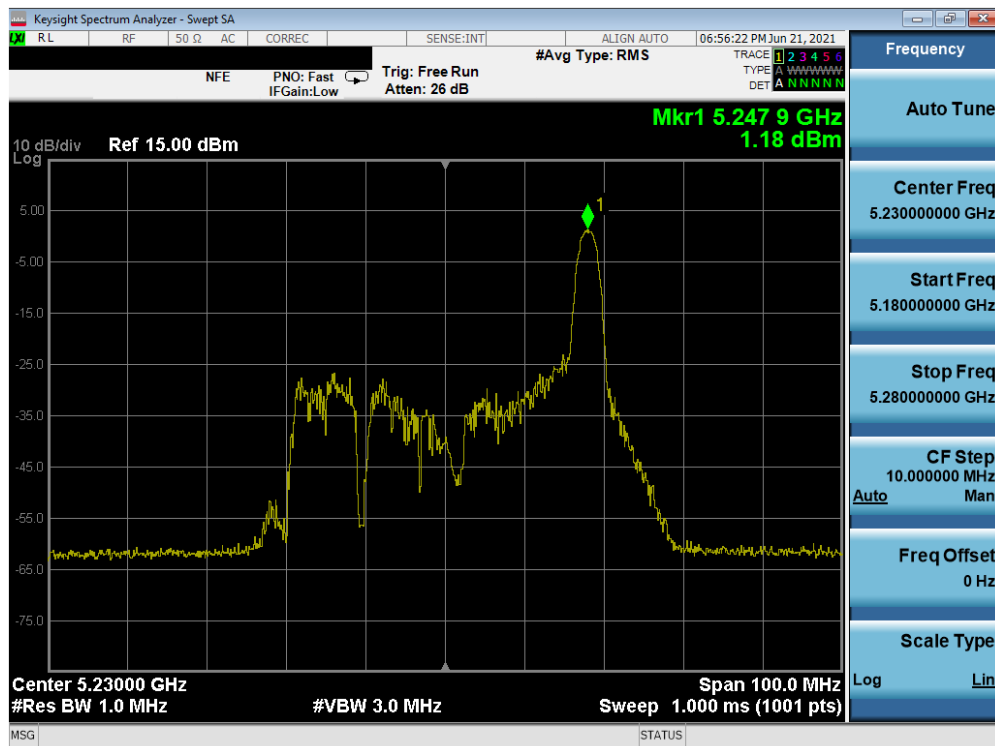


Plot 7-251. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

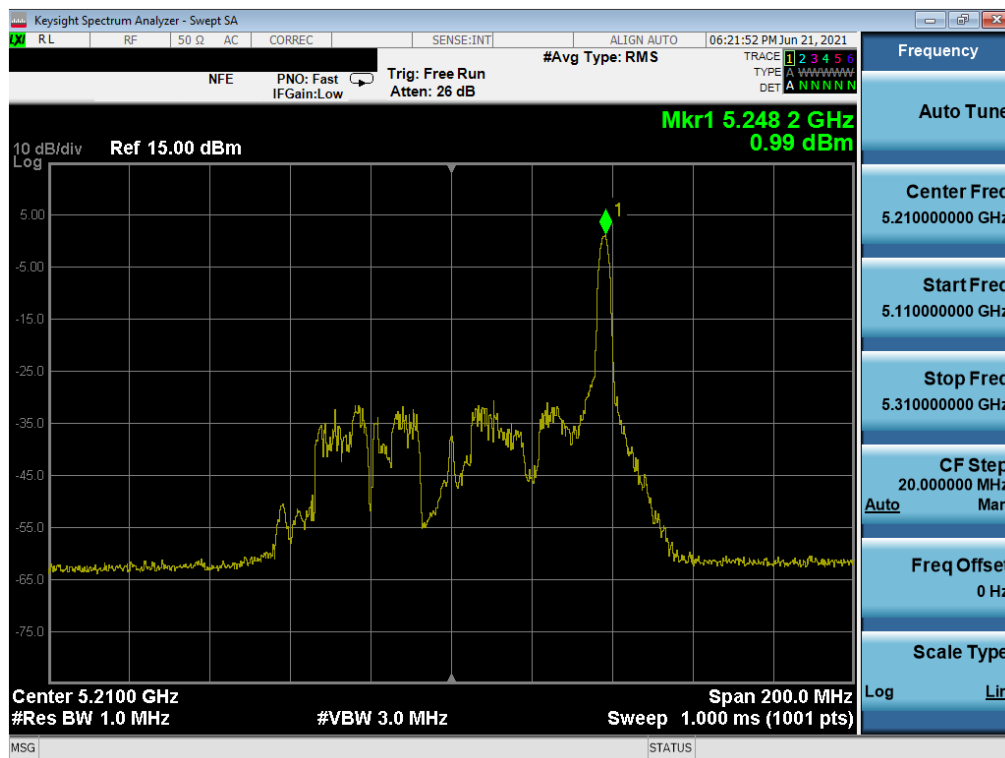


Plot 7-252. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 187 of 341



Plot 7-253. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-254. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 188 of 341