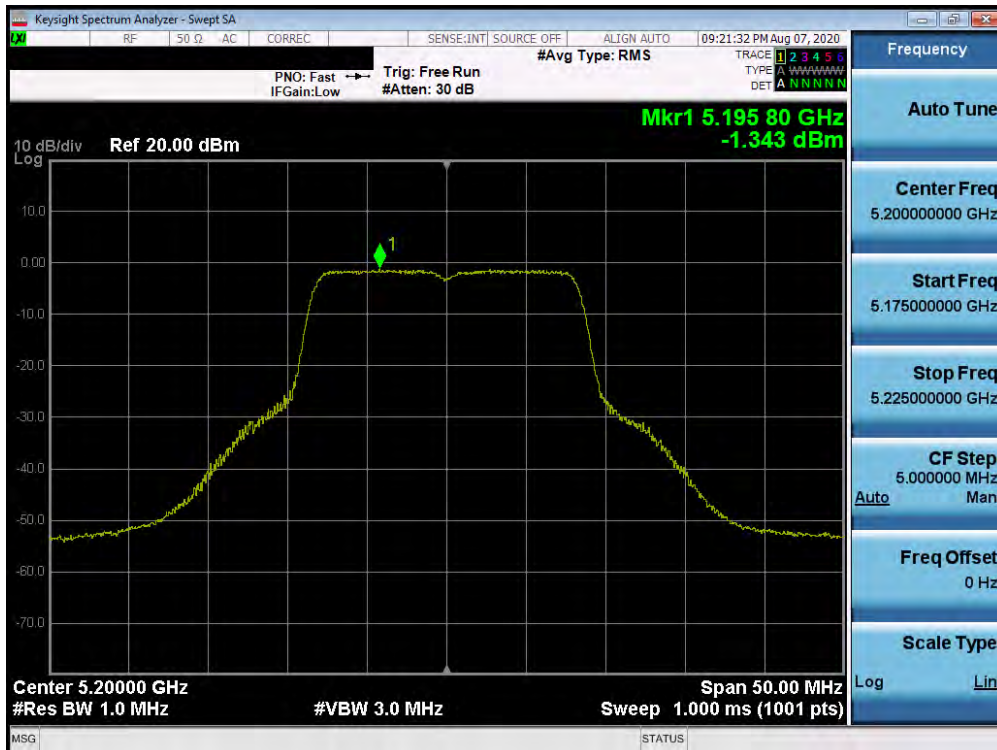
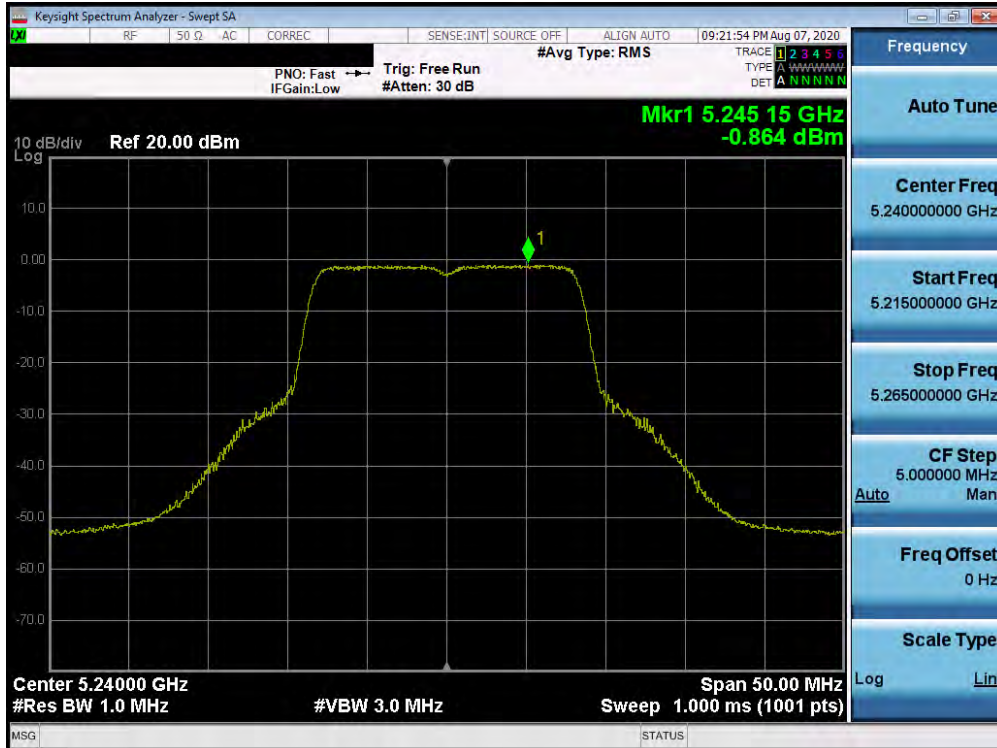


Plot 7-199. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 36)

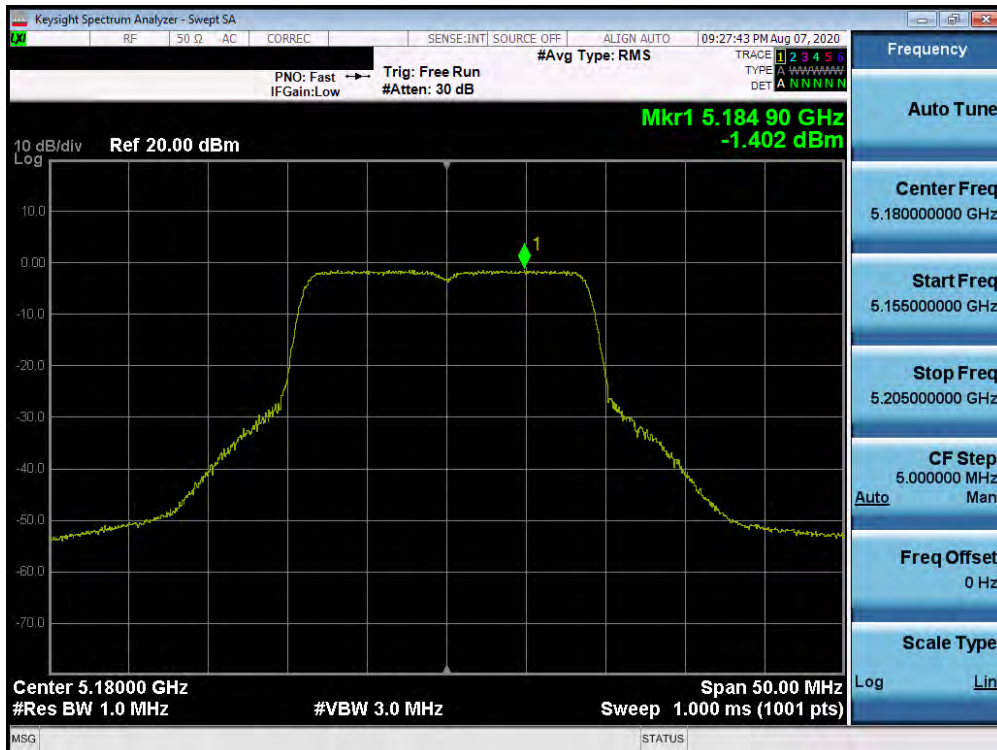


Plot 7-200. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 40)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 133 of 228

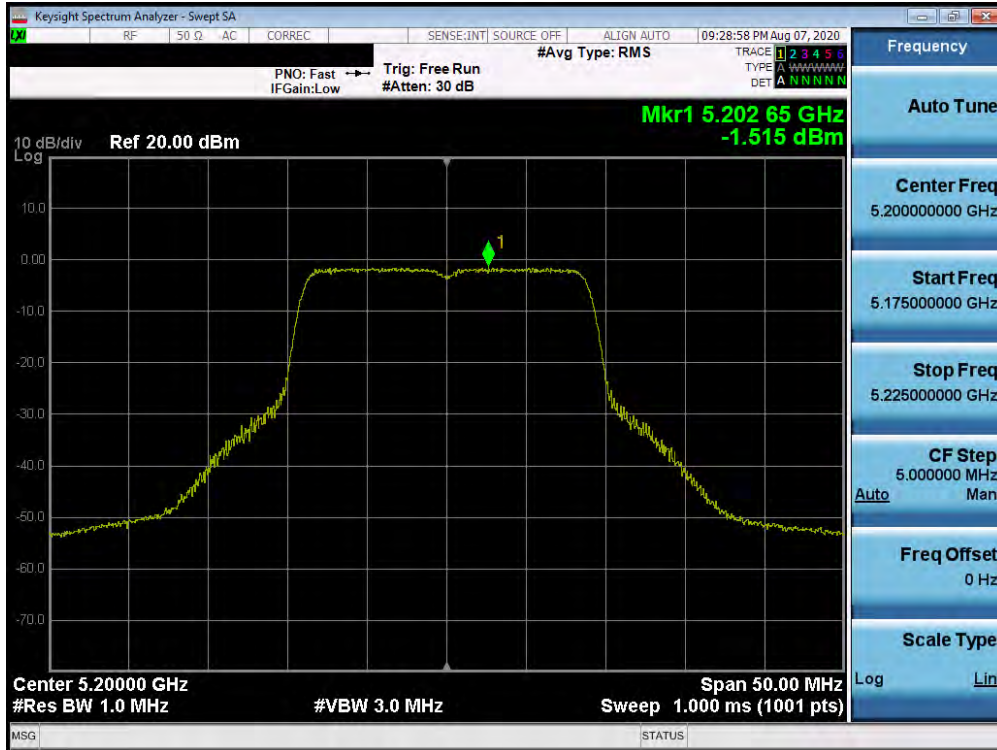


Plot 7-201. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 48)

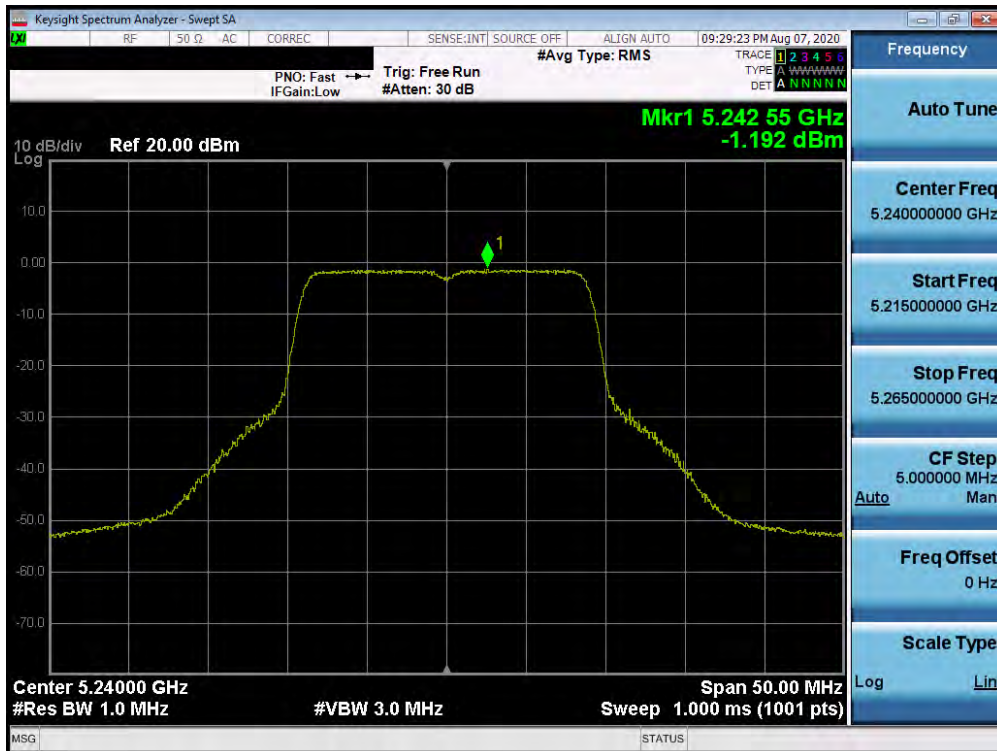


Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 134 of 228

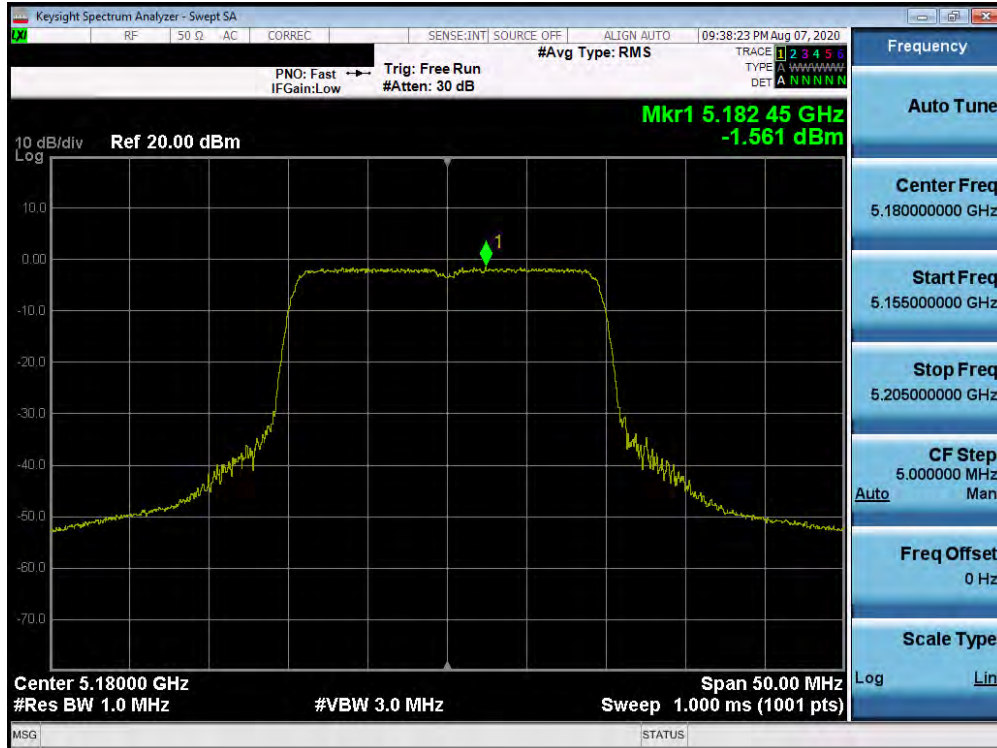


Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

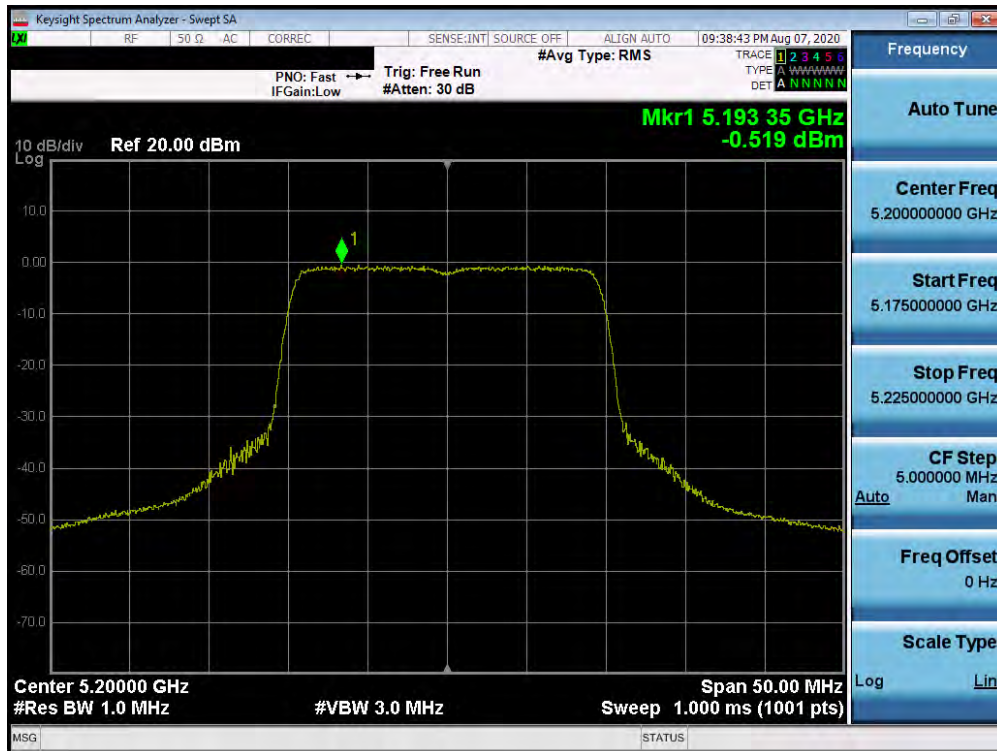


Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 135 of 228

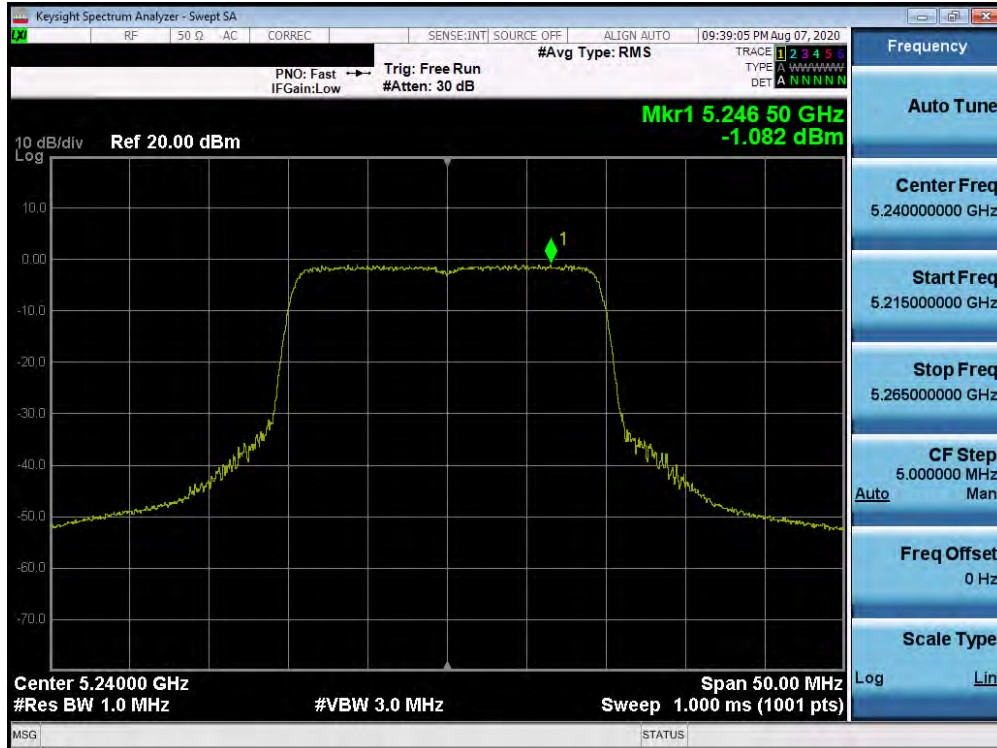


Plot 7-205. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)

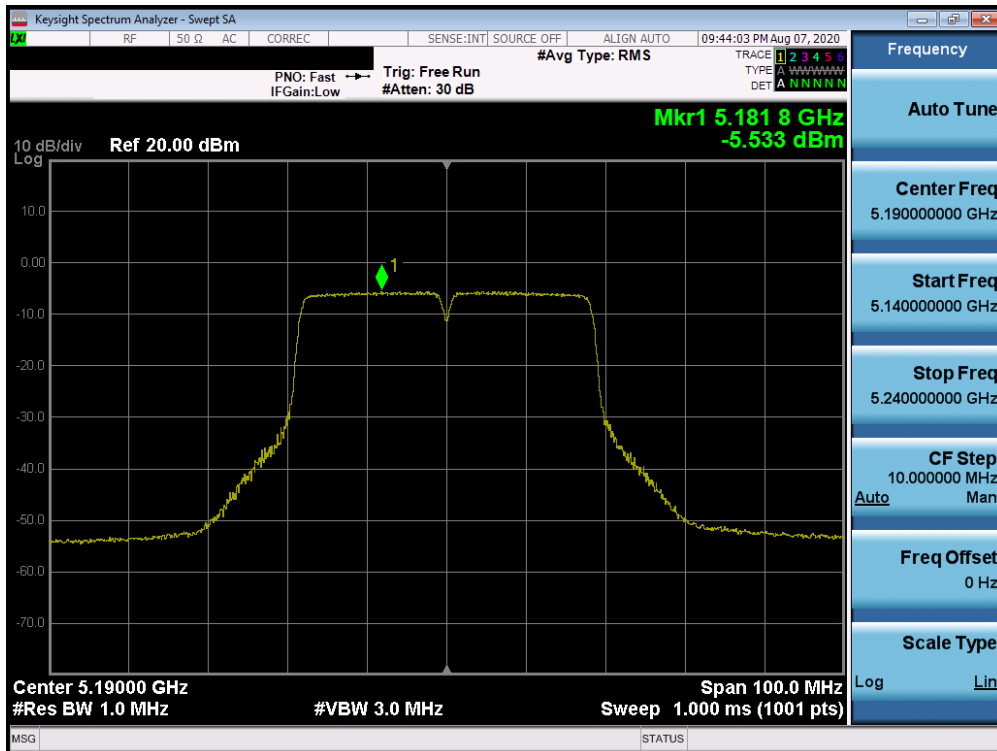


Plot 7-206. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 136 of 228

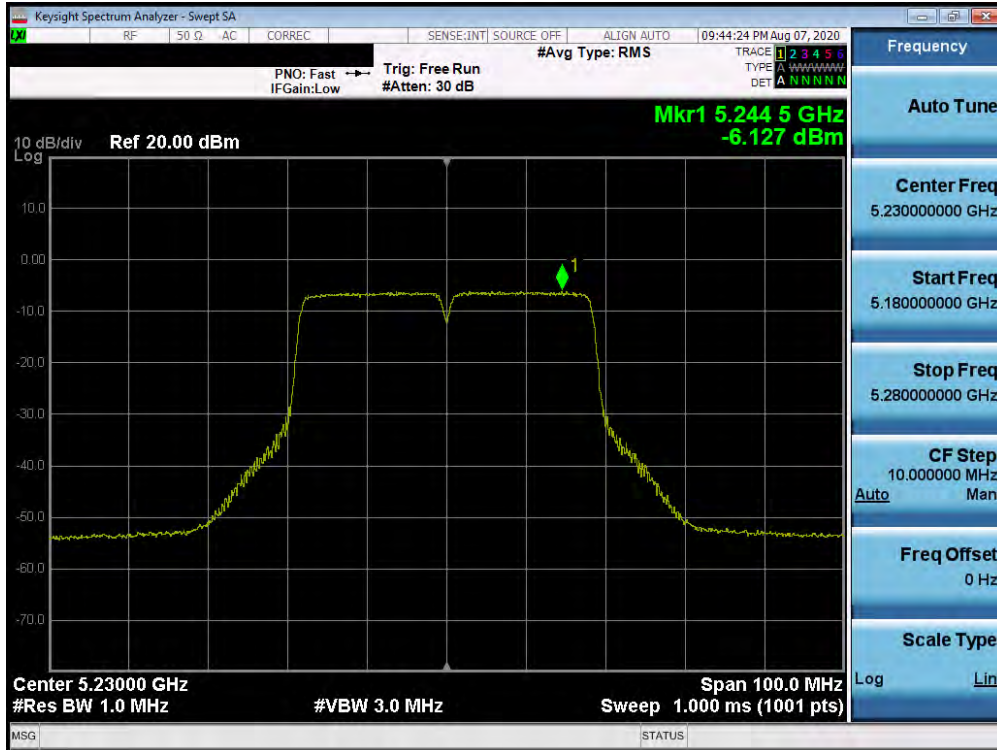


Plot 7-207. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

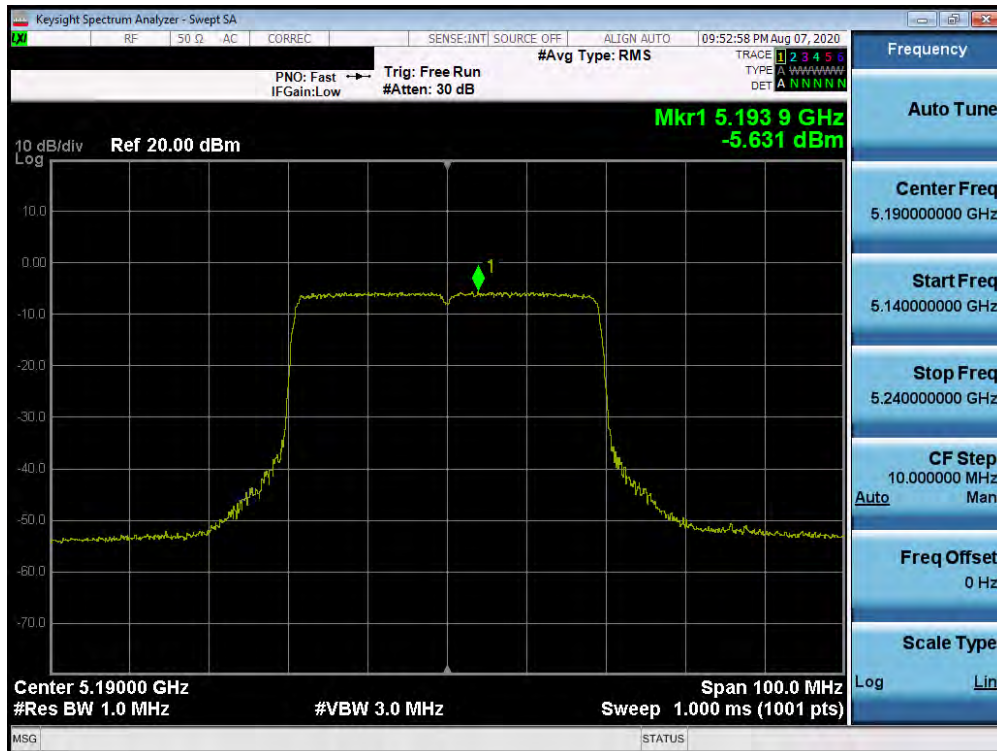


Plot 7-208. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 137 of 228

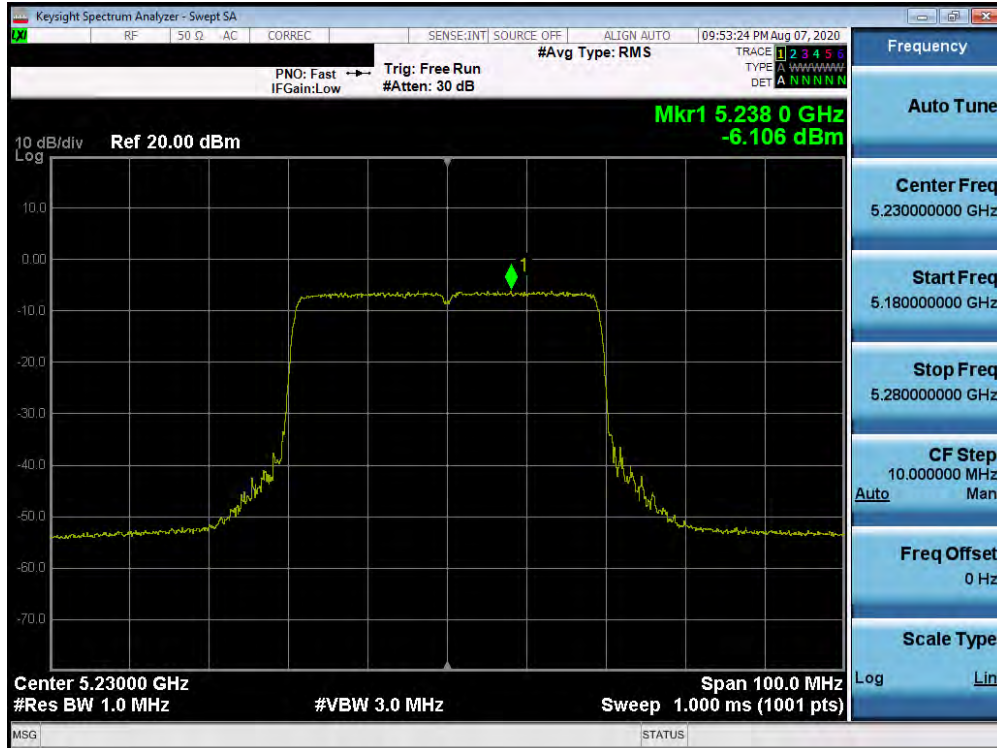


Plot 7-209. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

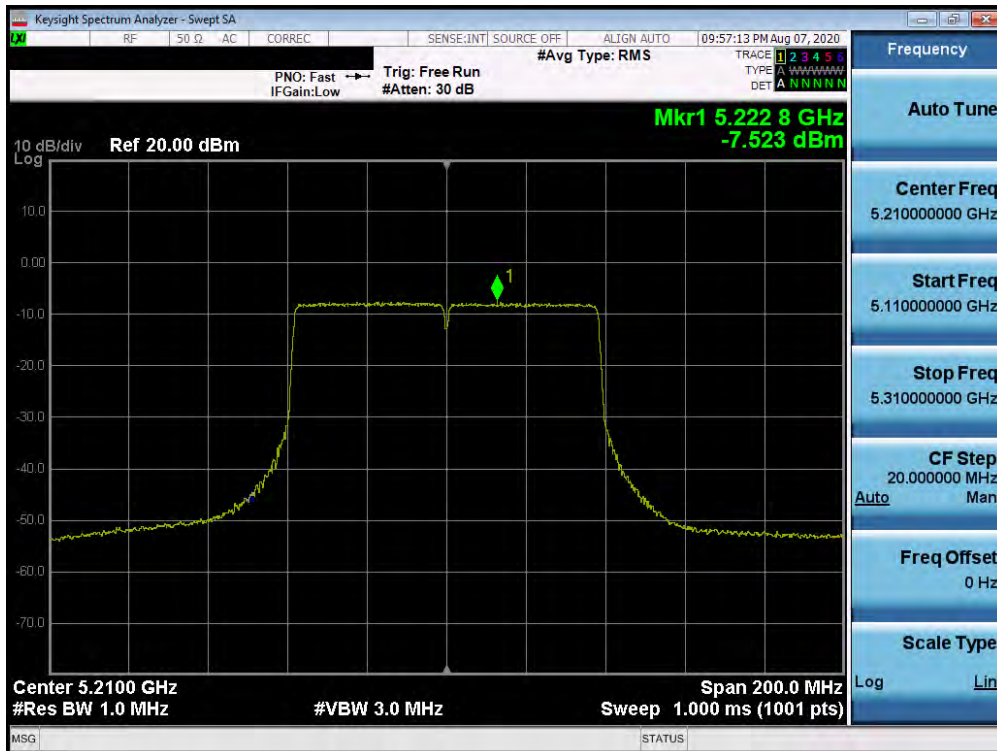


Plot 7-210. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 138 of 228

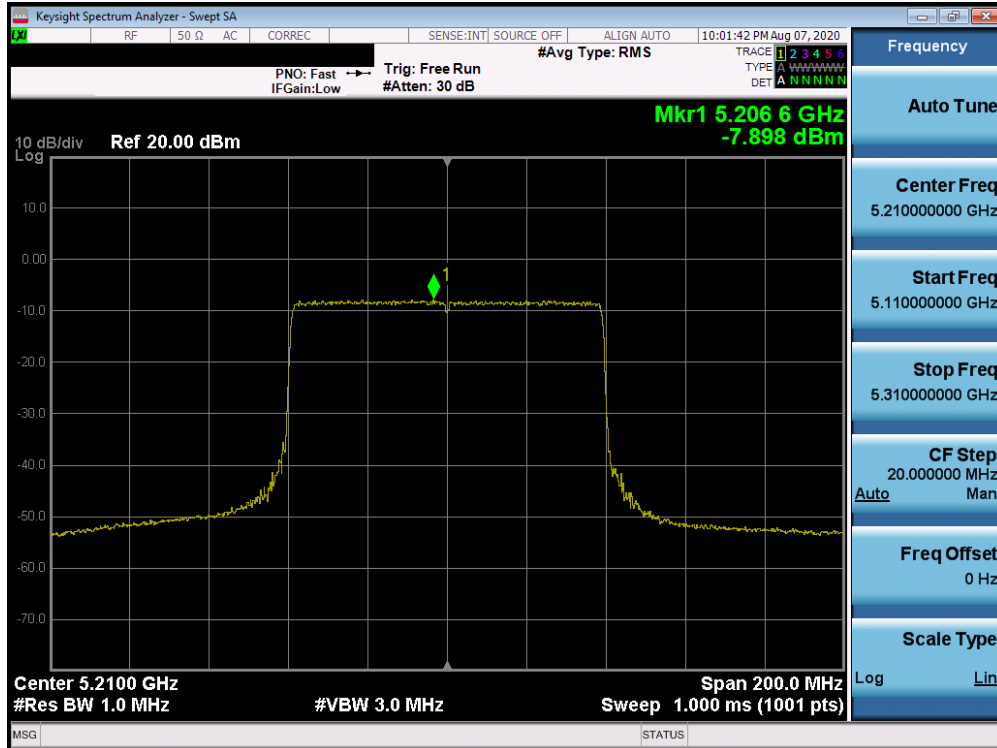


Plot 7-211. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

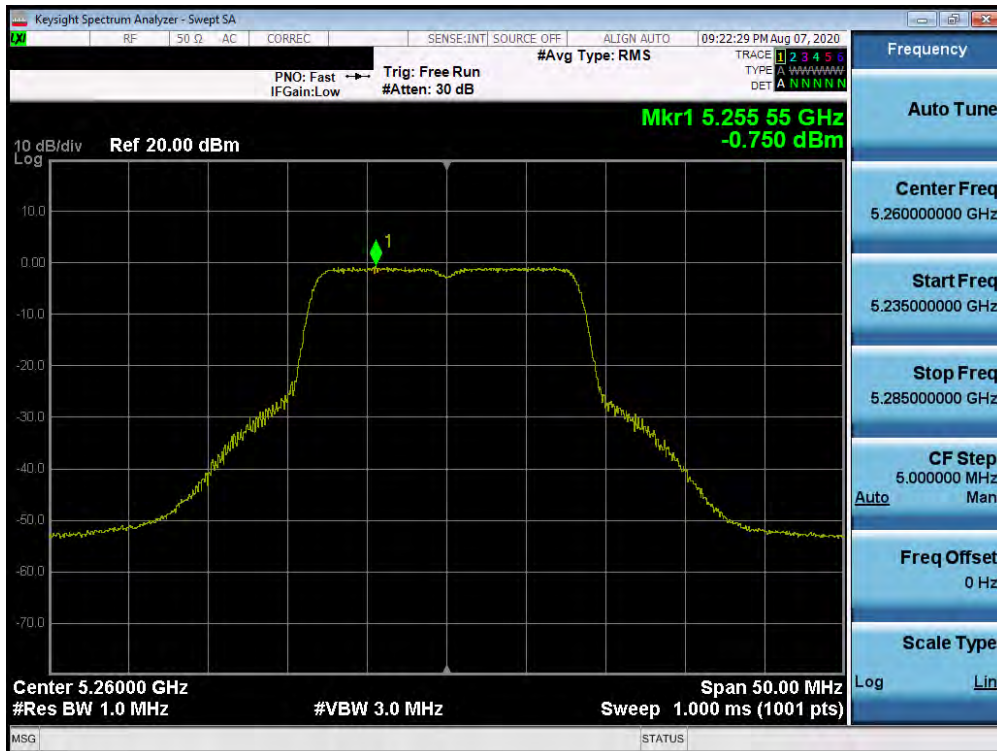


Plot 7-212. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 139 of 228



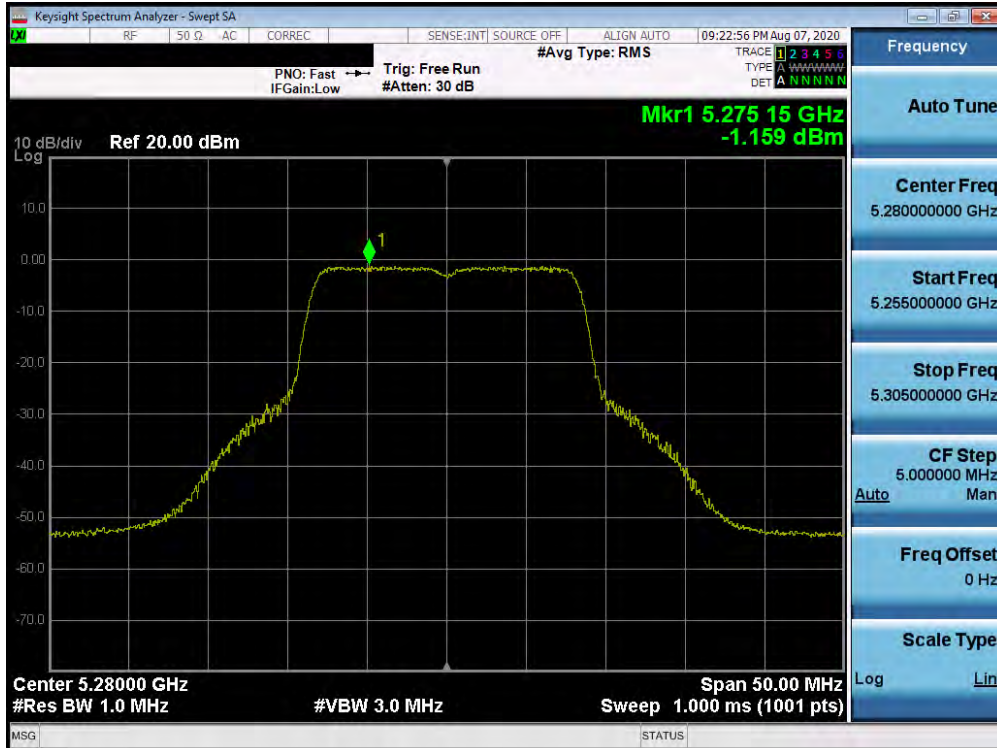
Plot 7-213. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)



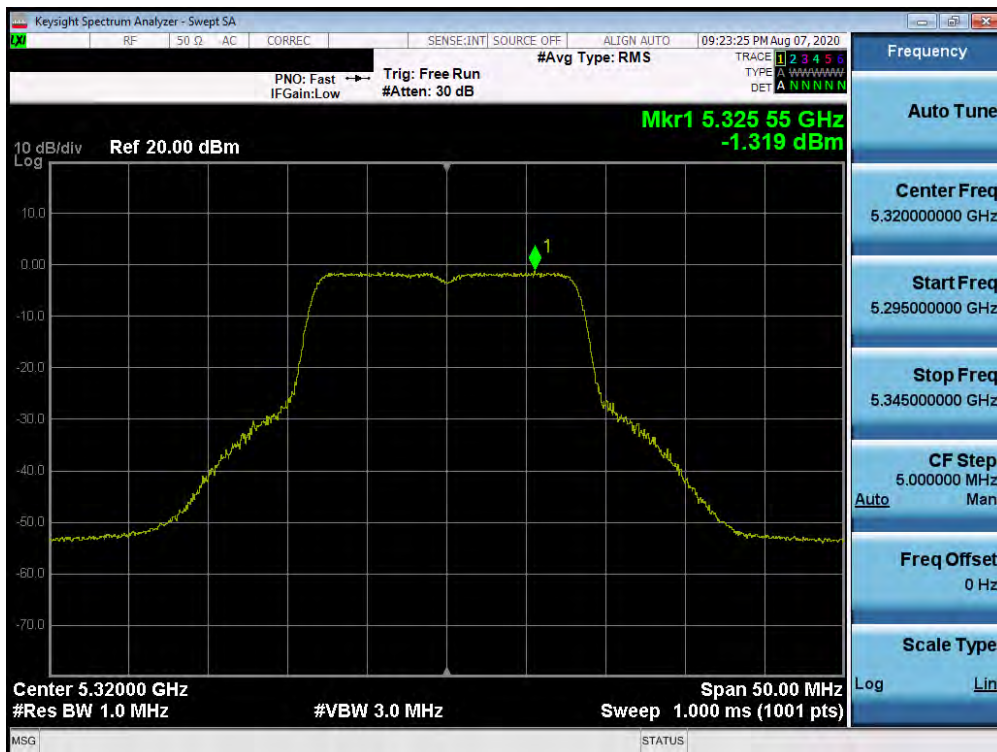
Plot 7-214. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 140 of 228



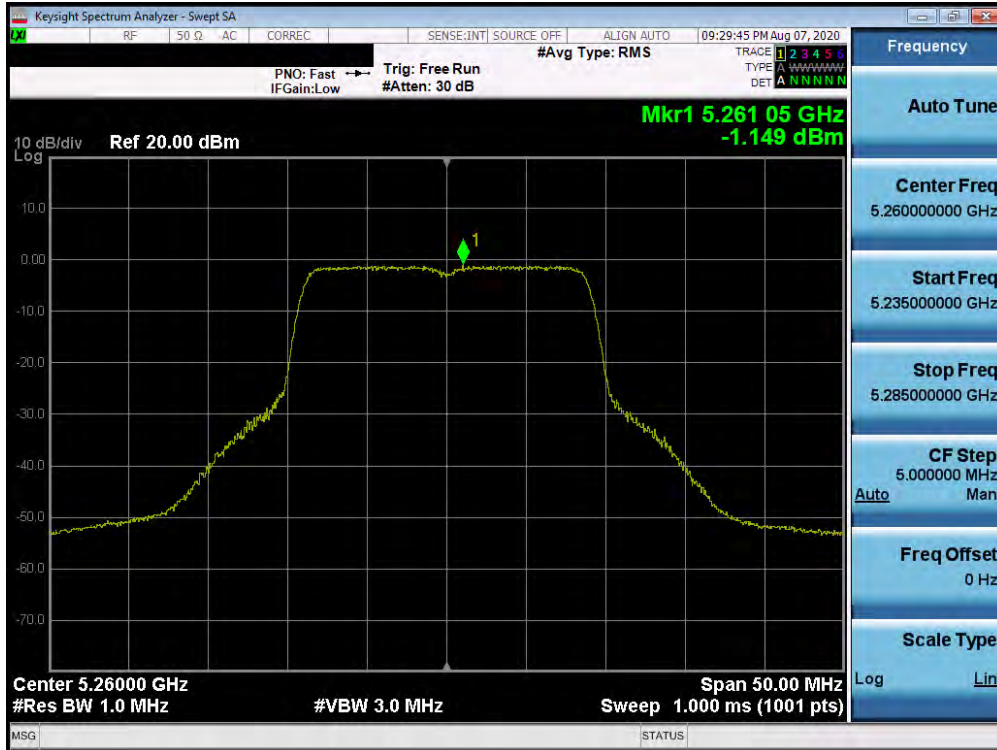


Plot 7-215. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 56)

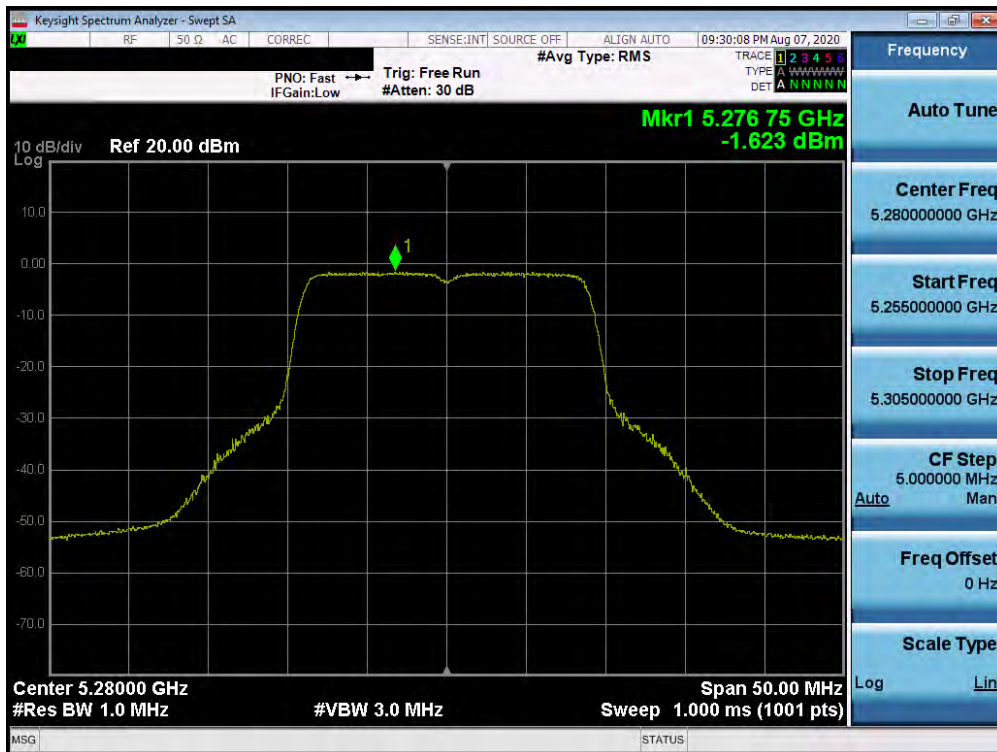


Plot 7-216. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 141 of 228

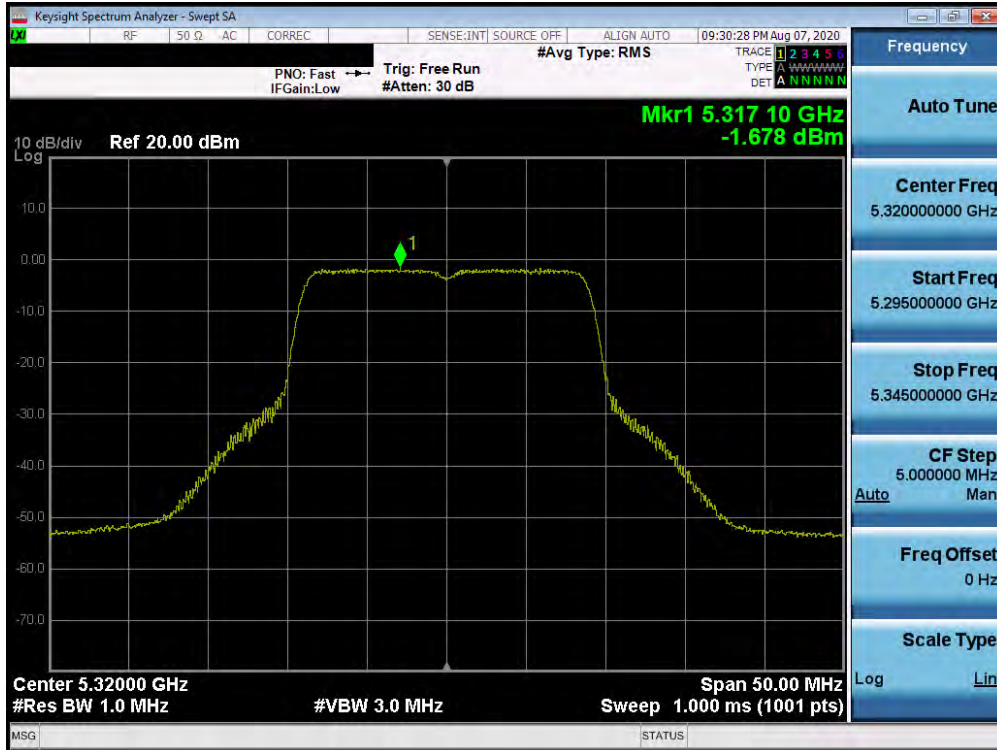


Plot 7-217. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

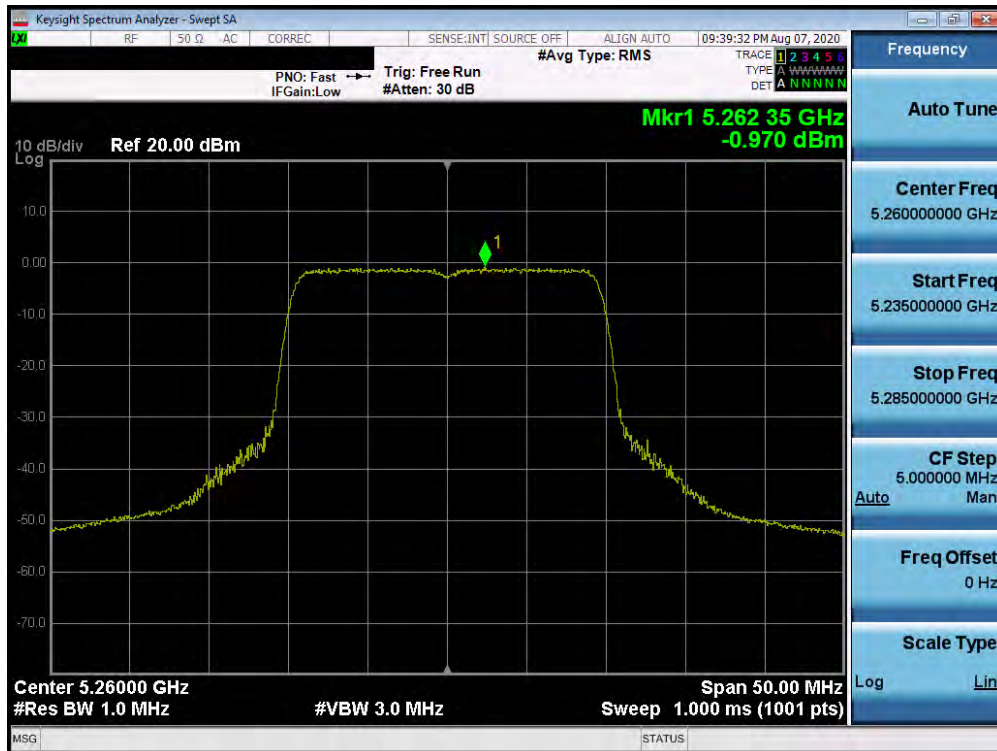


Plot 7-218. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 142 of 228

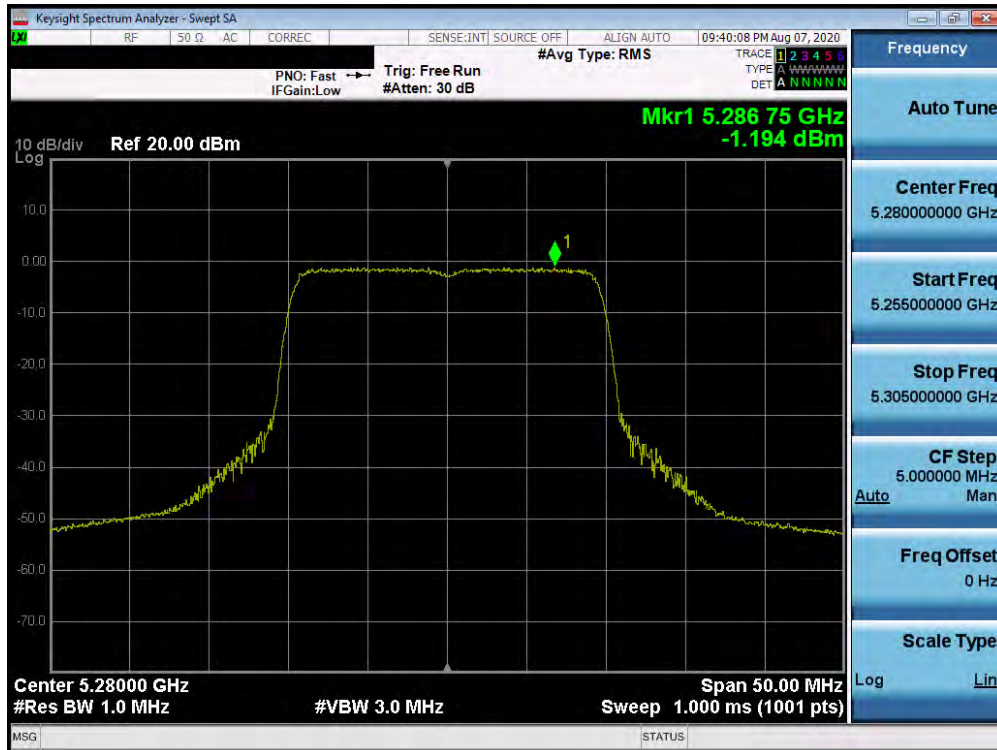


Plot 7-219. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

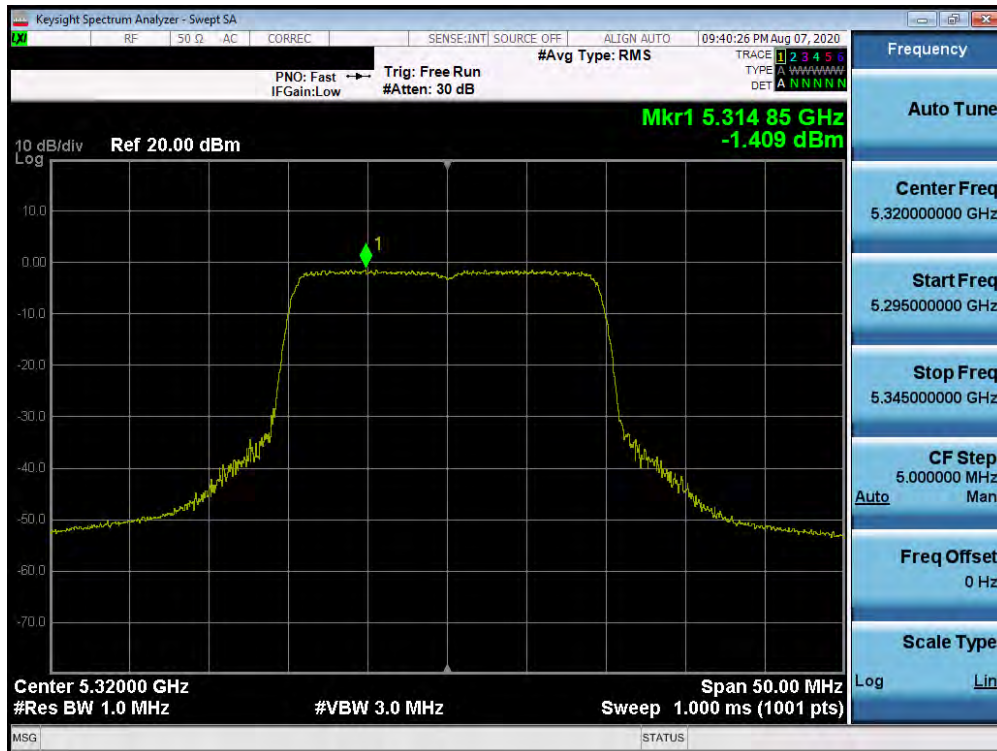


Plot 7-220. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 143 of 228

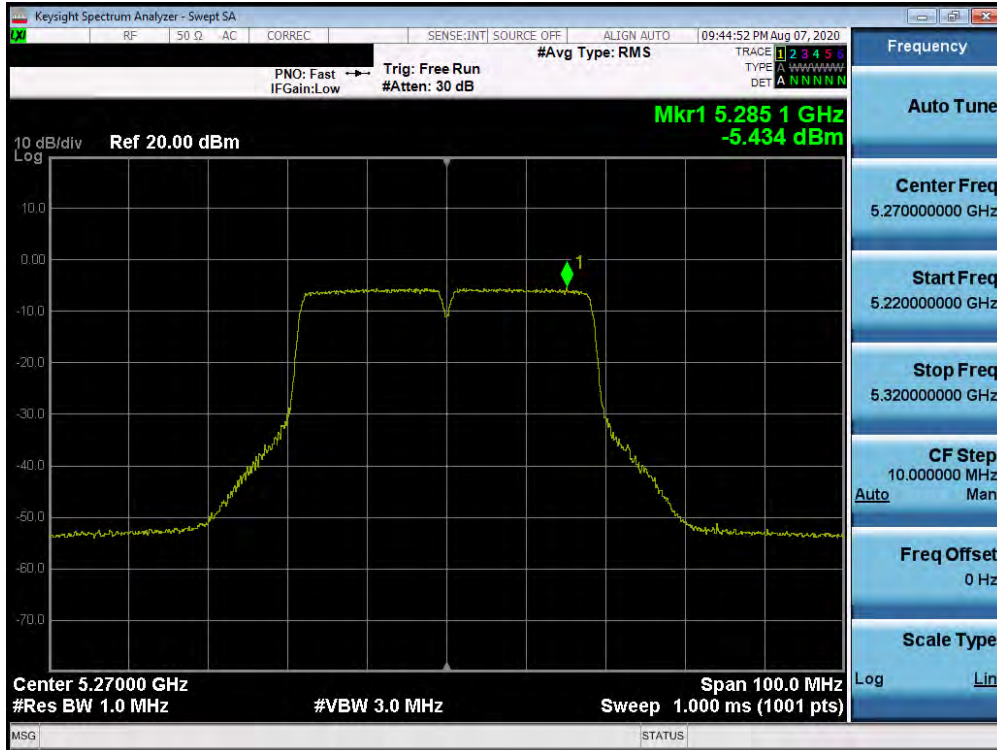


Plot 7-221. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)

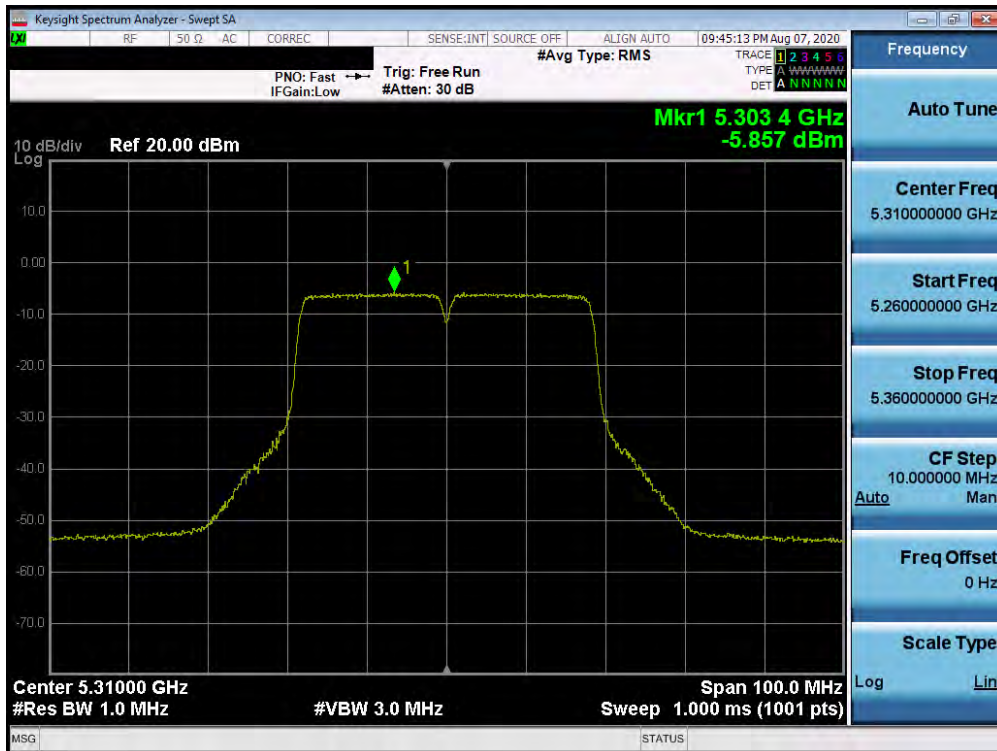


Plot 7-222. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 144 of 228

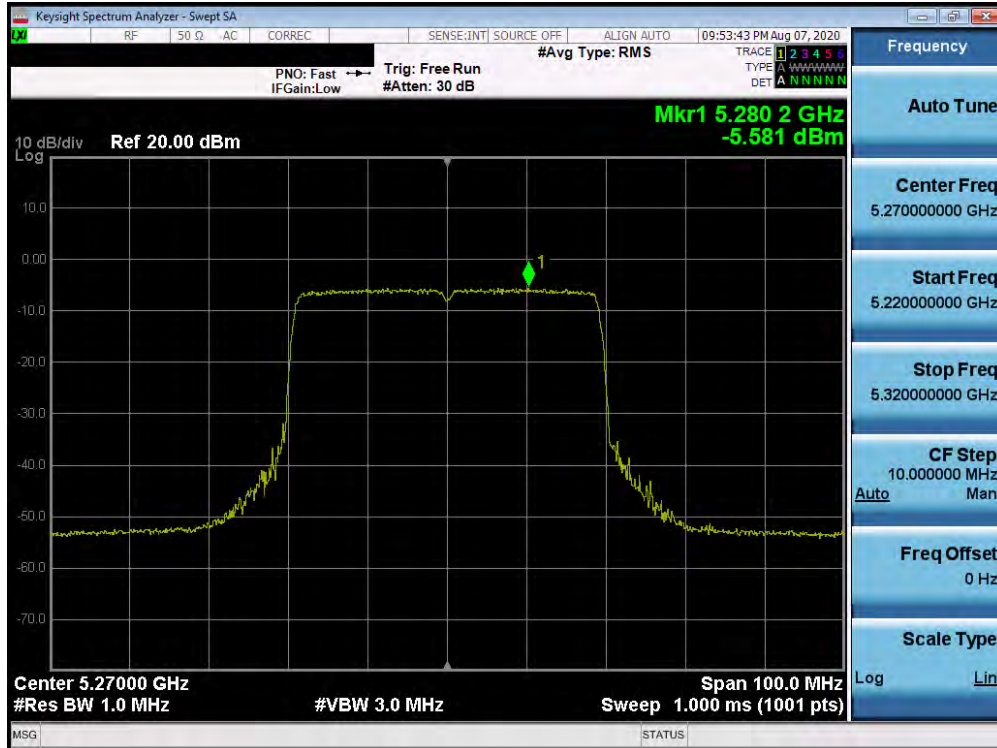


Plot 7-223. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

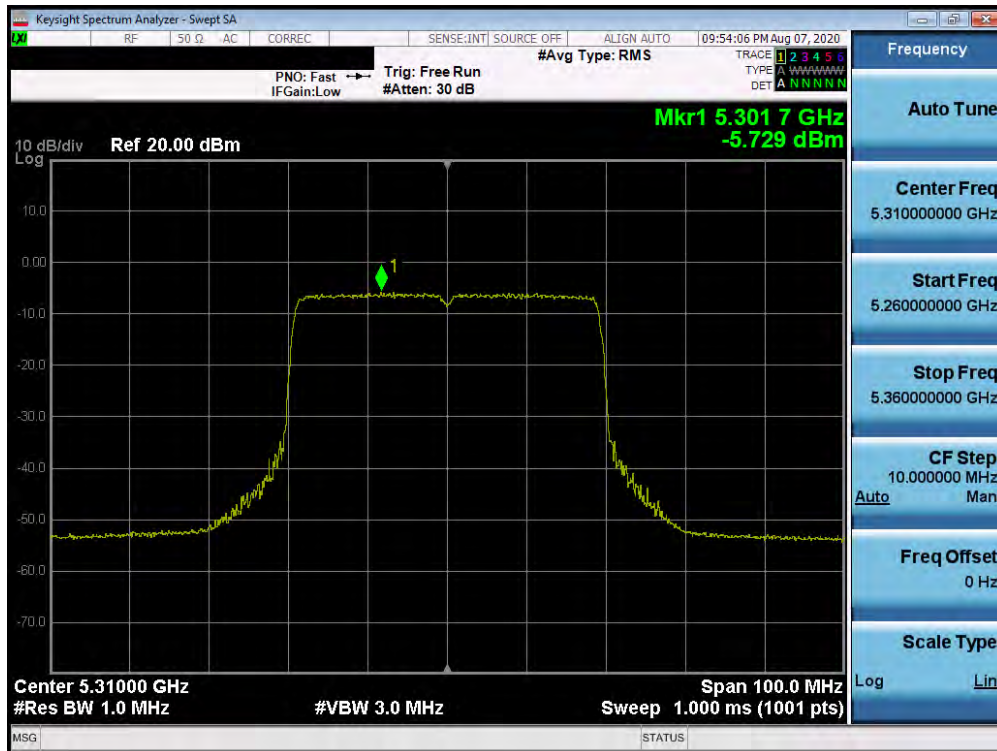


Plot 7-224. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 145 of 228

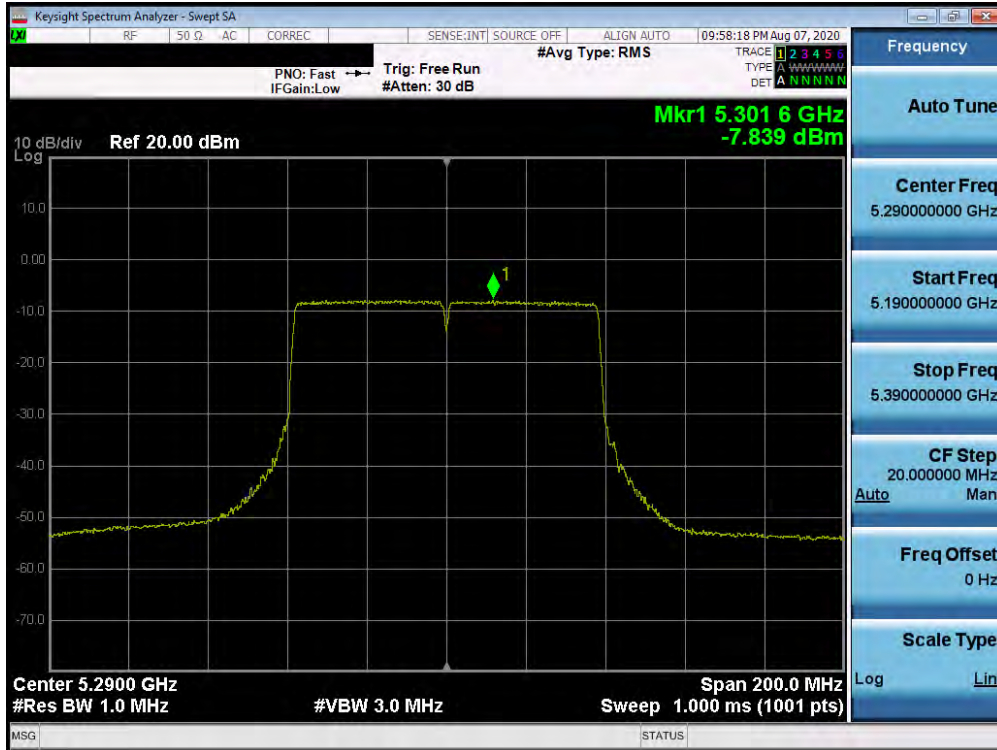


Plot 7-225. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

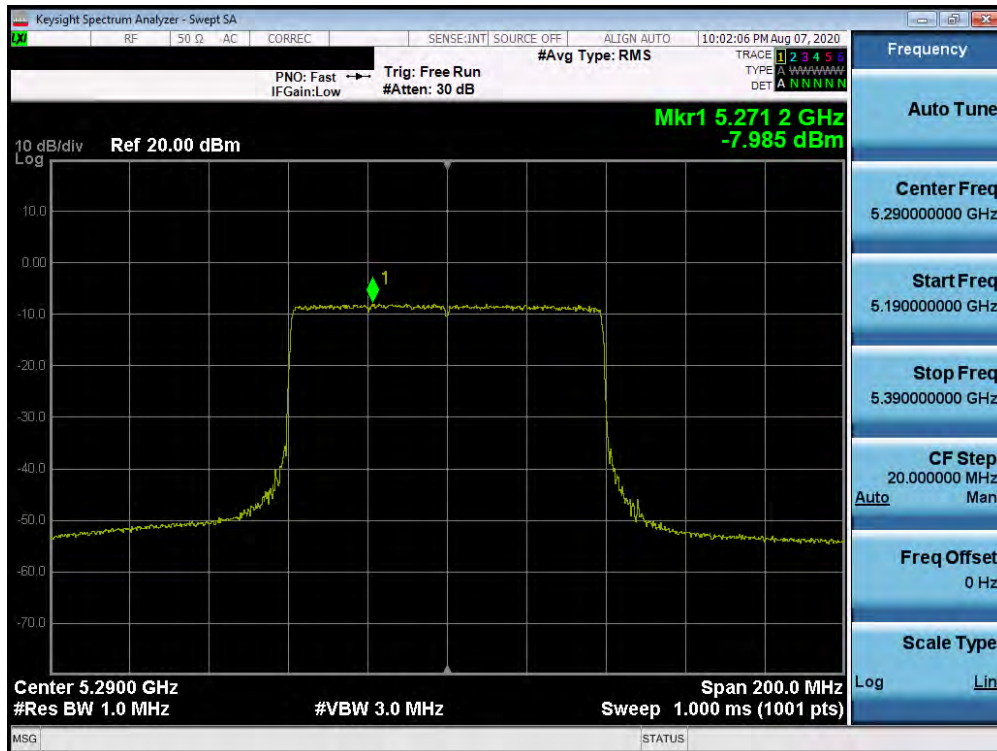


Plot 7-226. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 146 of 228

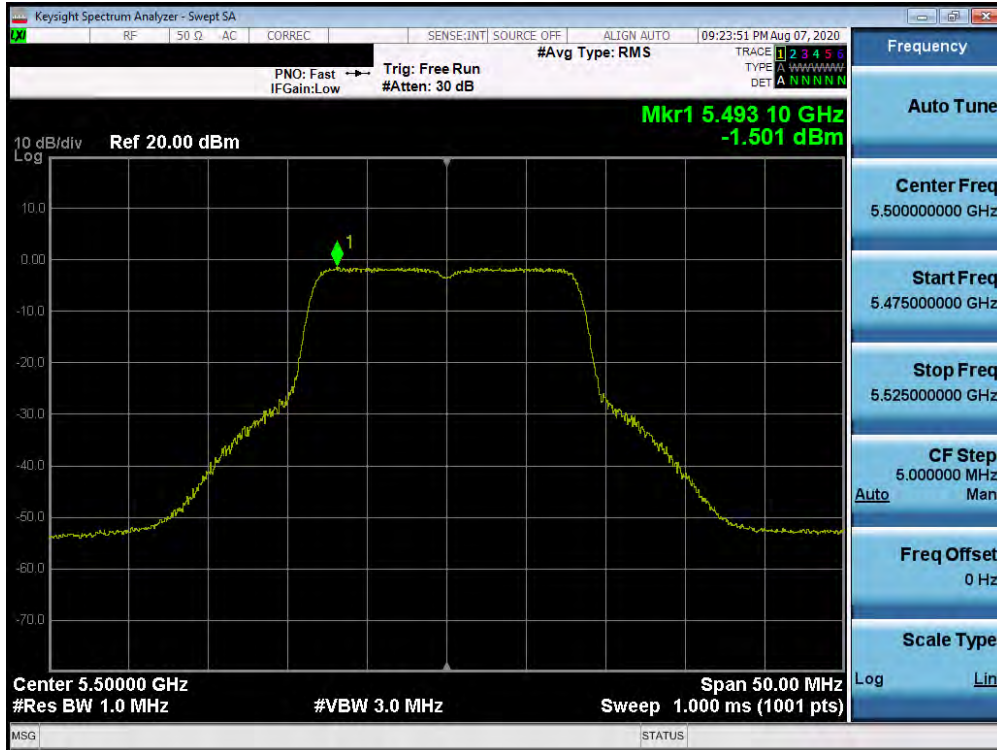


Plot 7-227. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

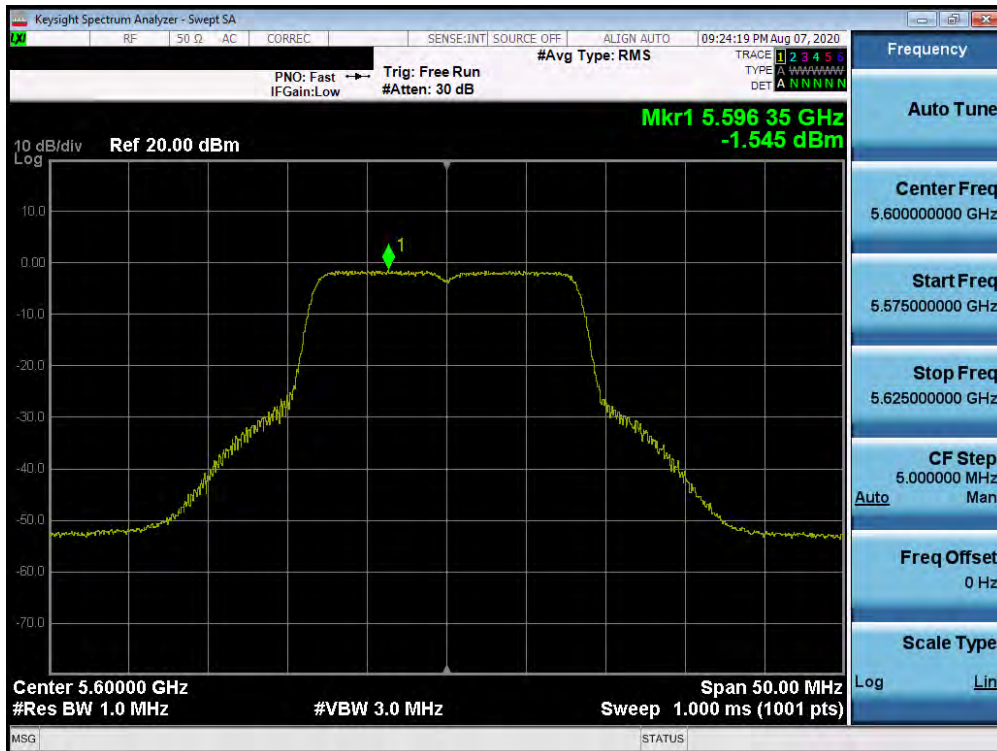


Plot 7-228. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 147 of 228



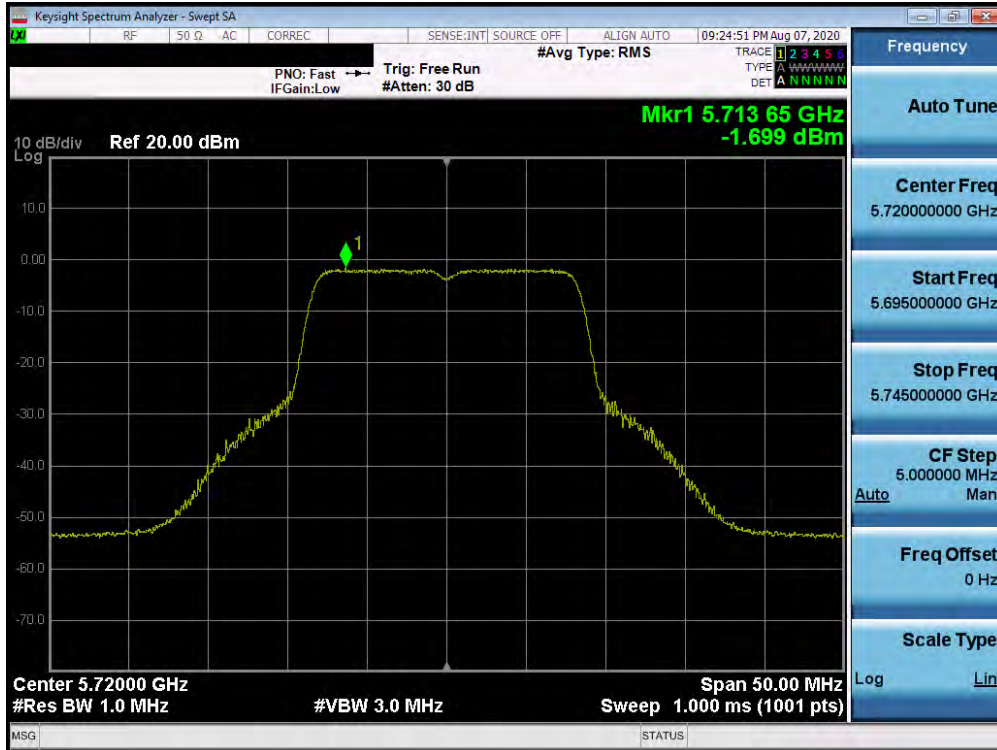
Plot 7-229. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)



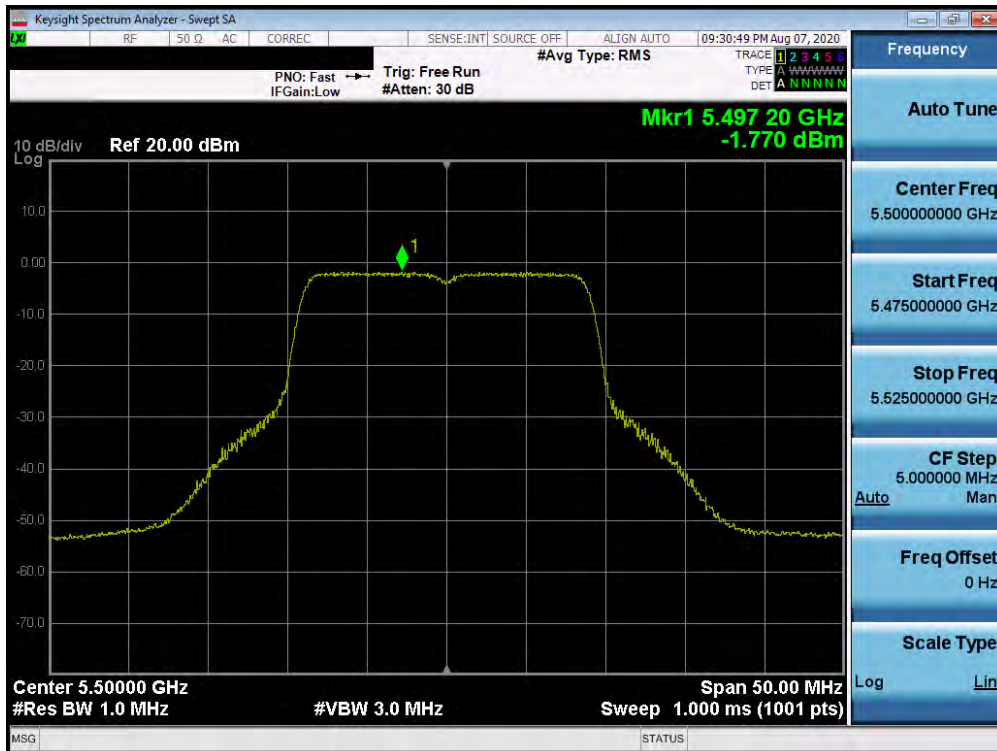
Plot 7-230. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 148 of 228



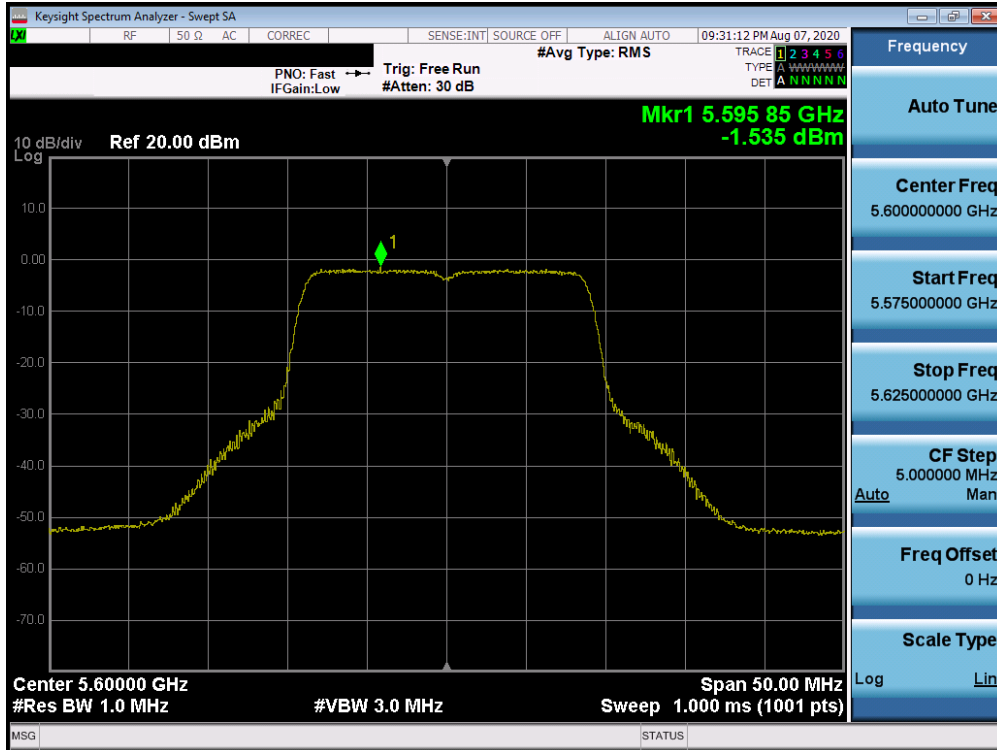


Plot 7-231. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 144)

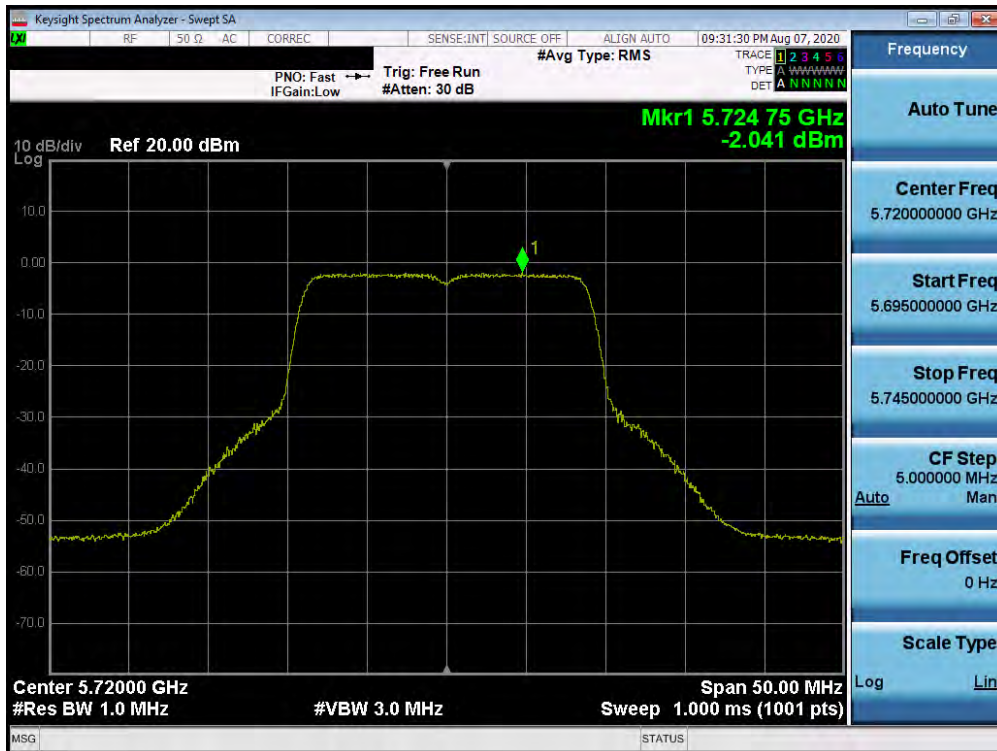


Plot 7-232. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 149 of 228

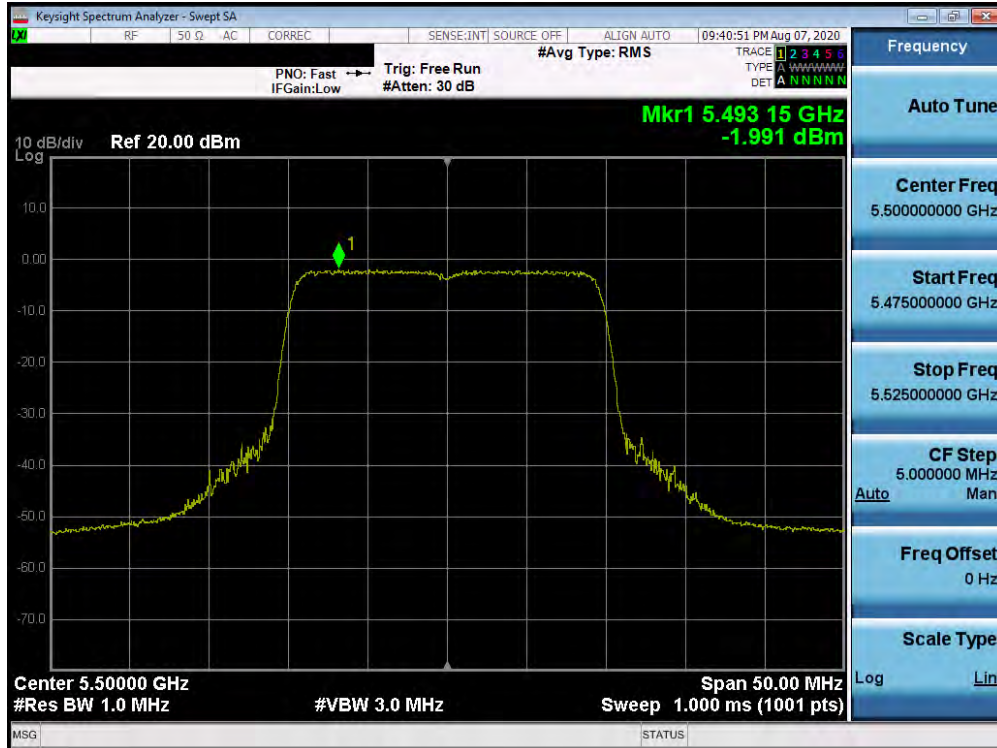


Plot 7-233. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

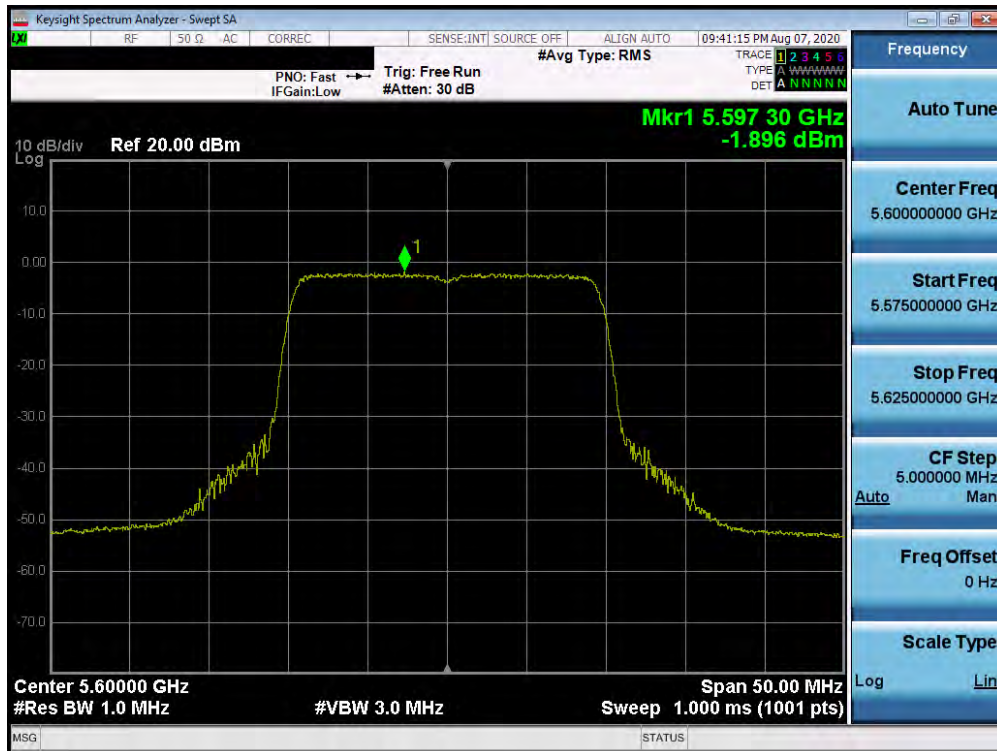


Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 150 of 228

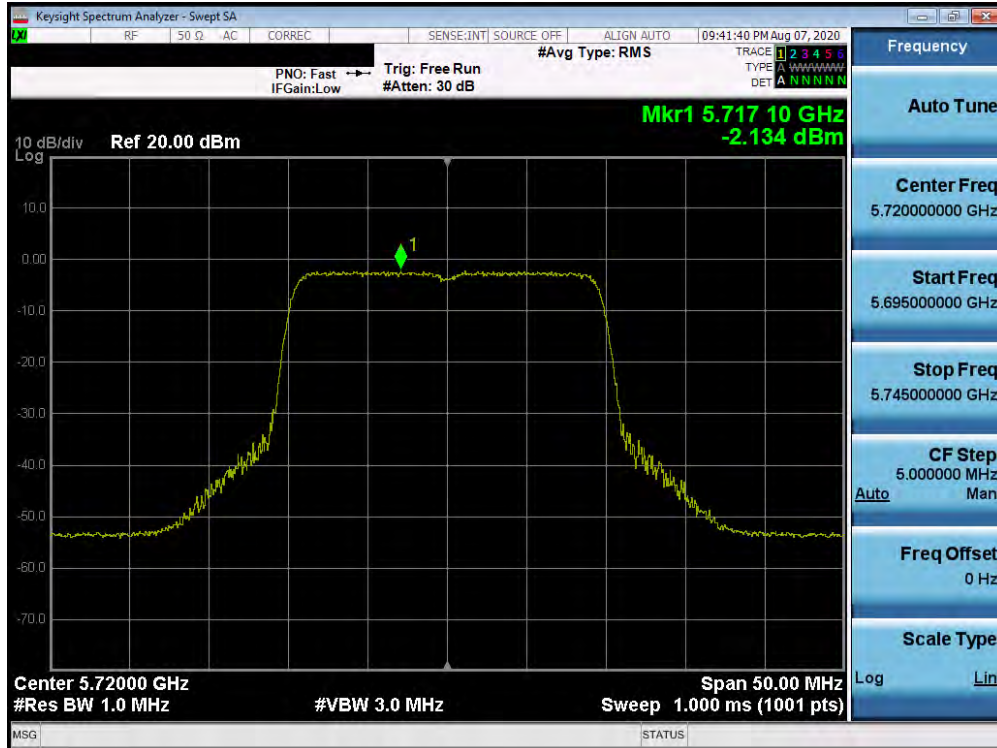


Plot 7-235. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

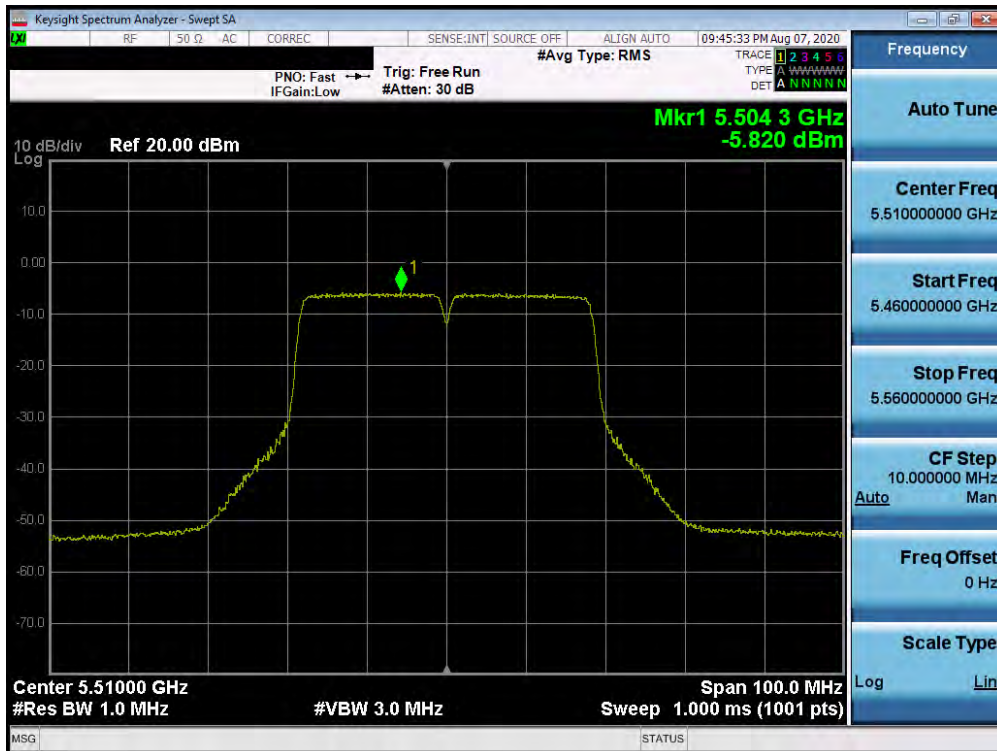


Plot 7-236. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 151 of 228

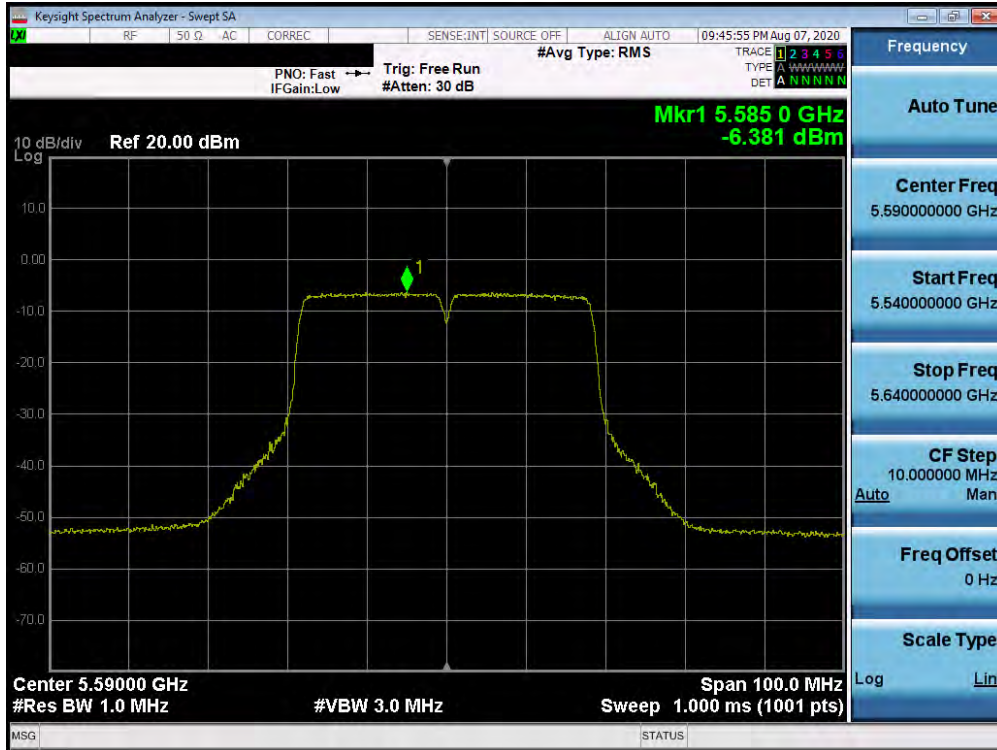


Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

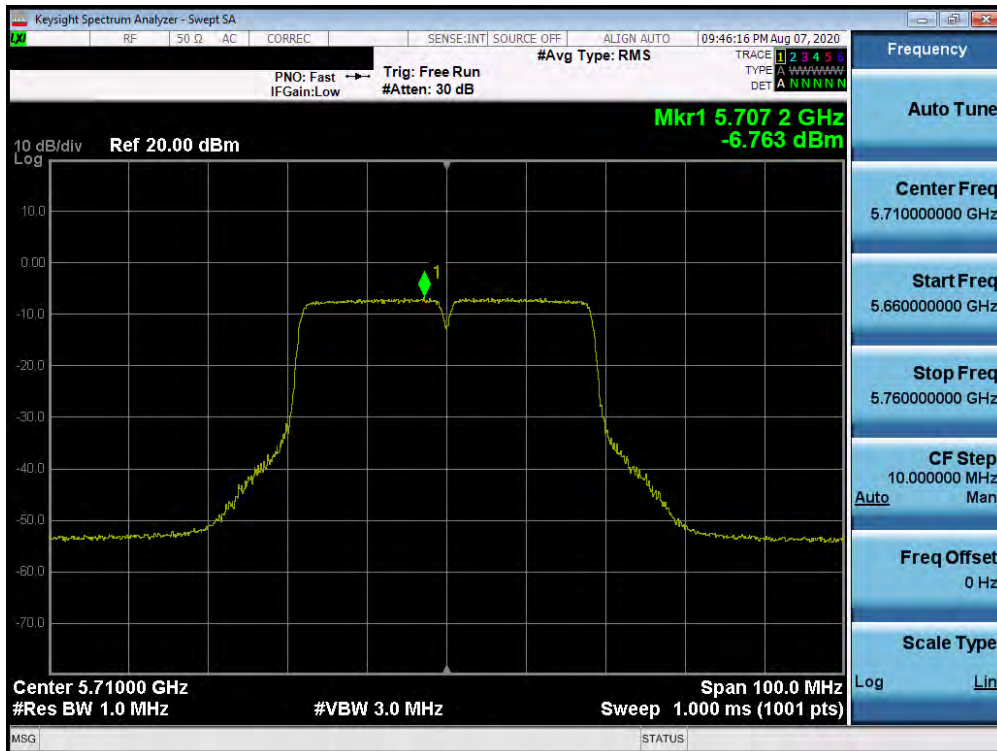


Plot 7-238. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 152 of 228

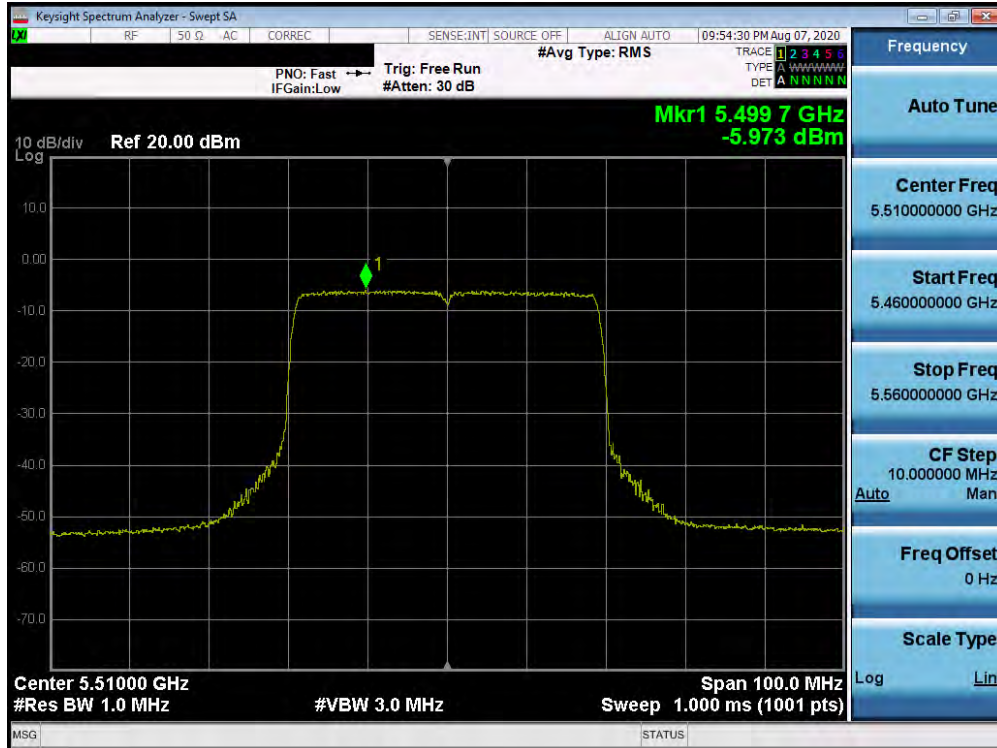


Plot 7-239. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

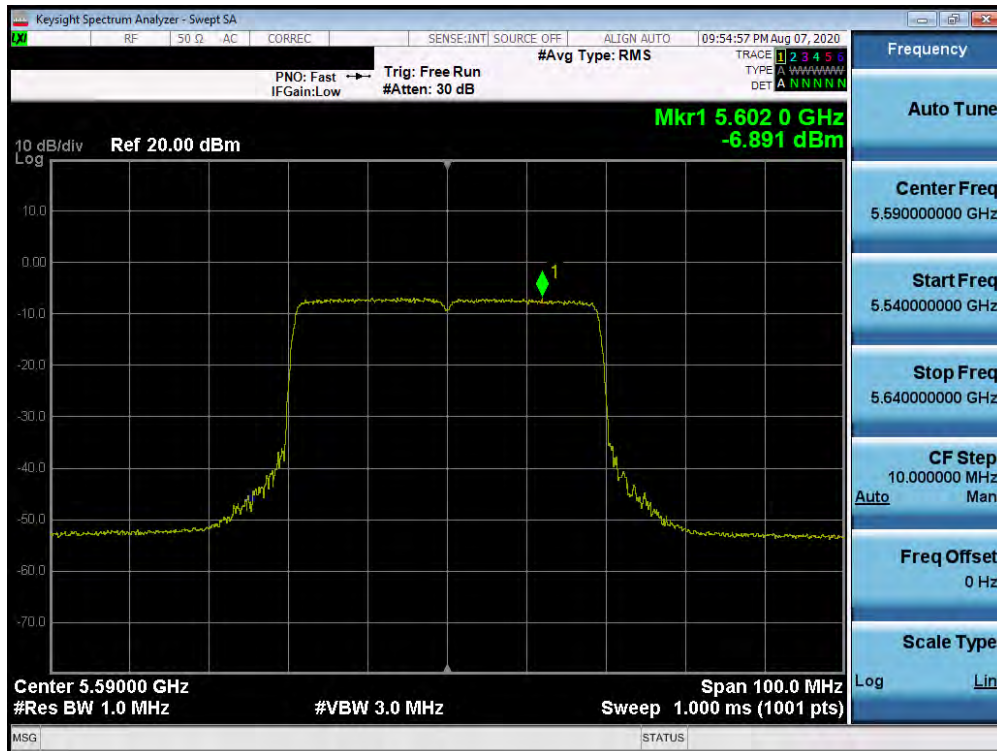


Plot 7-240. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 153 of 228

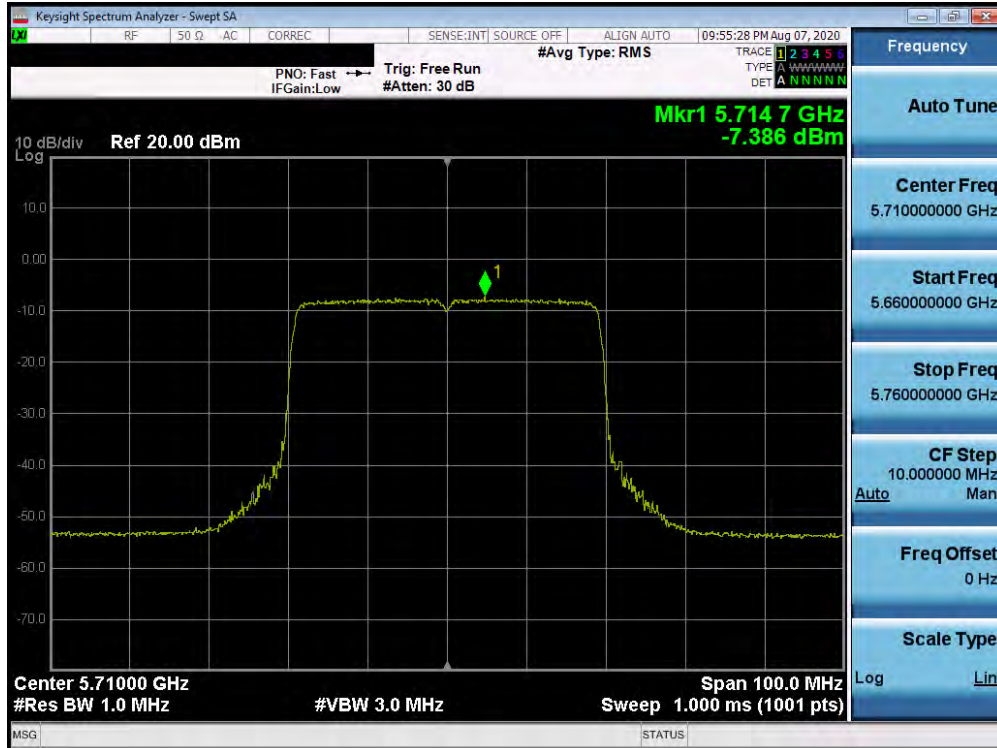


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

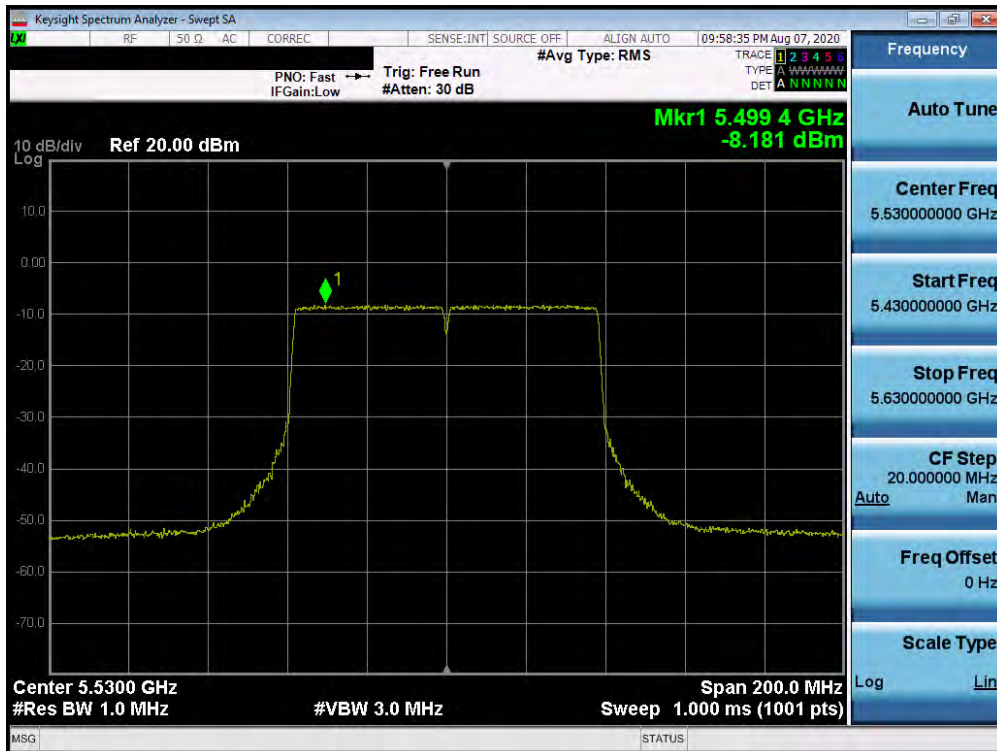


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 154 of 228

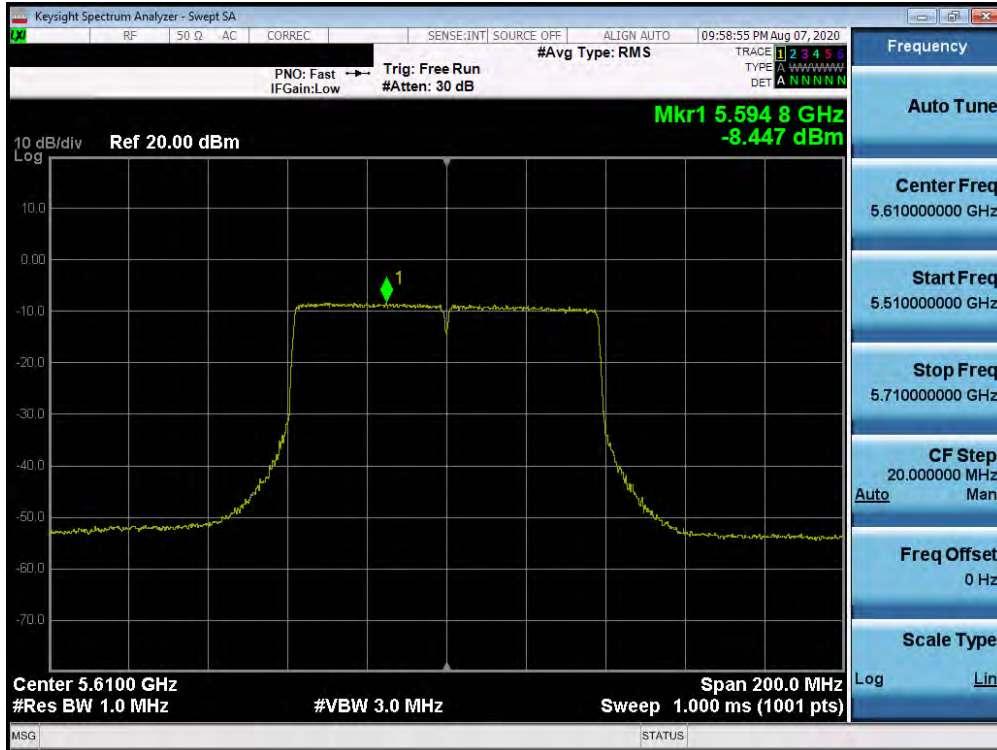


Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

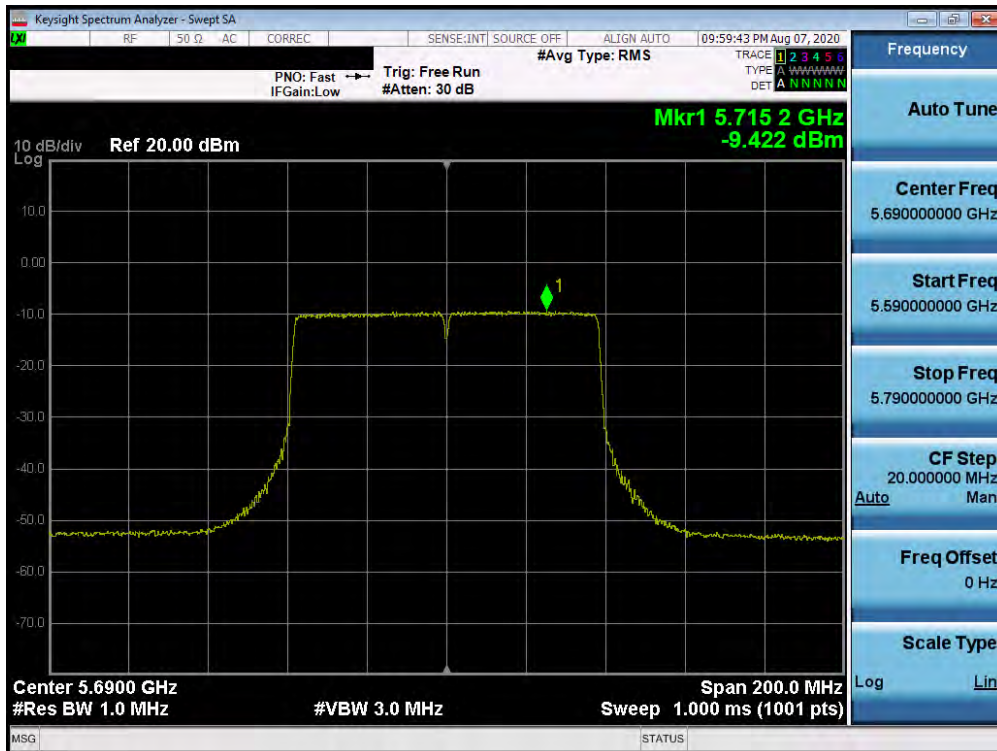


Plot 7-244. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 155 of 228



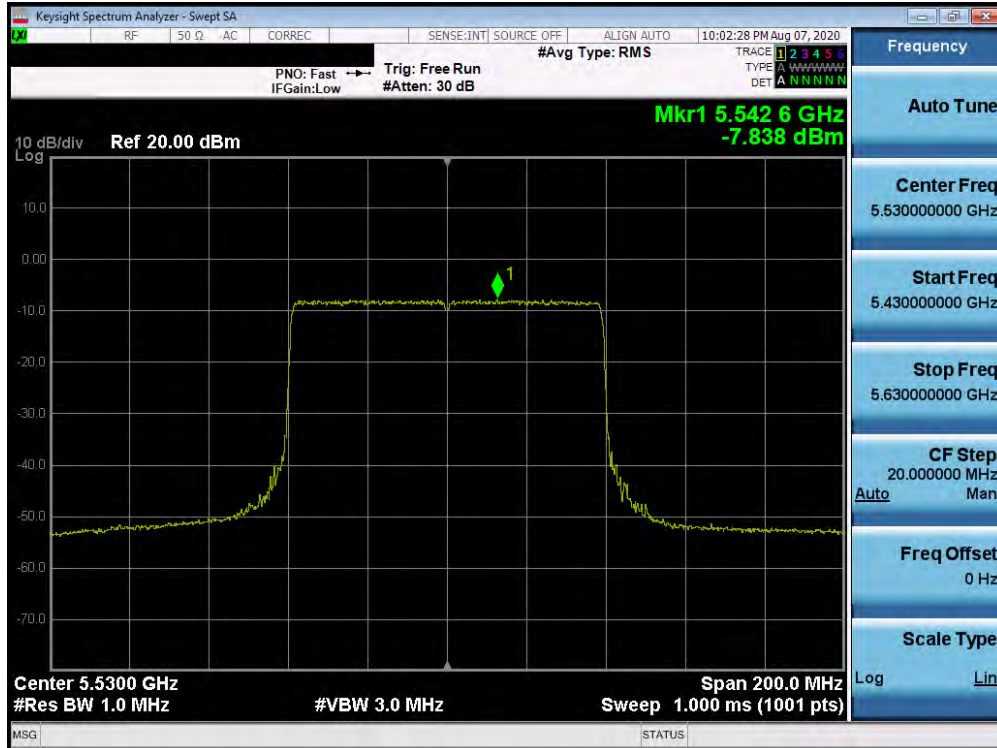
Plot 7-245. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)



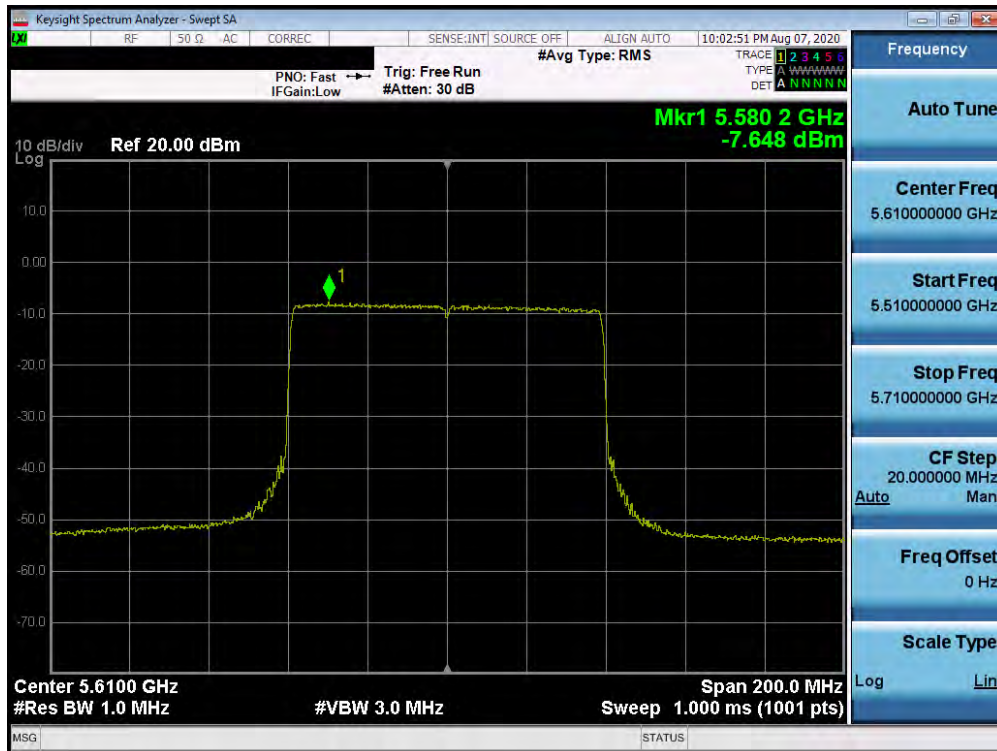
Plot 7-246. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 156 of 228



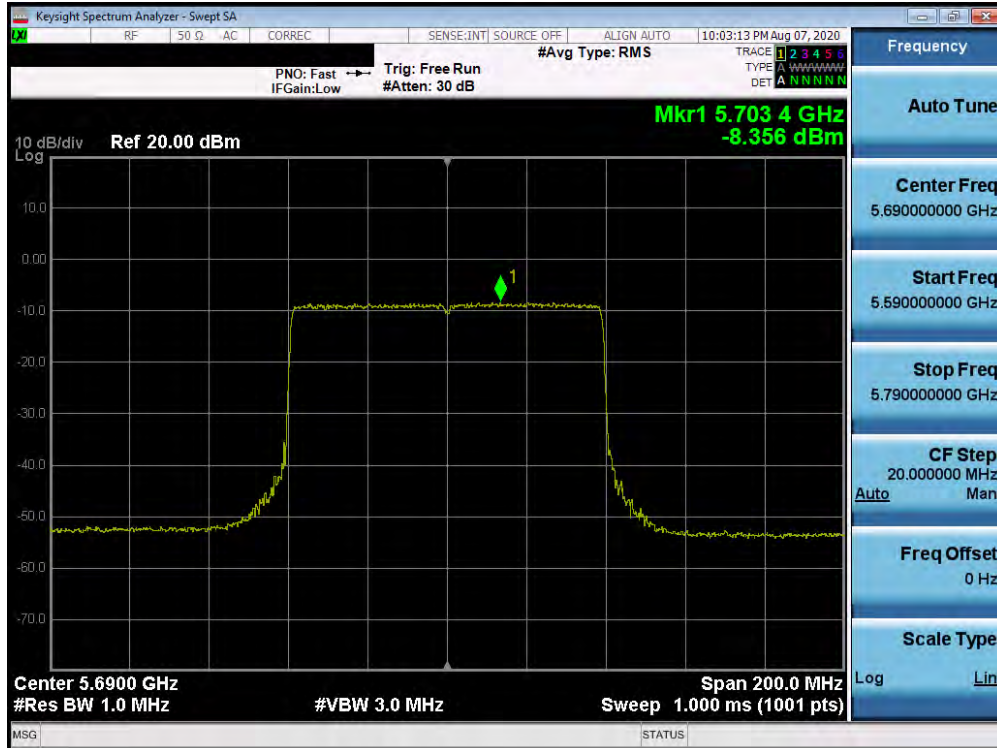


Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)



Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 157 of 228

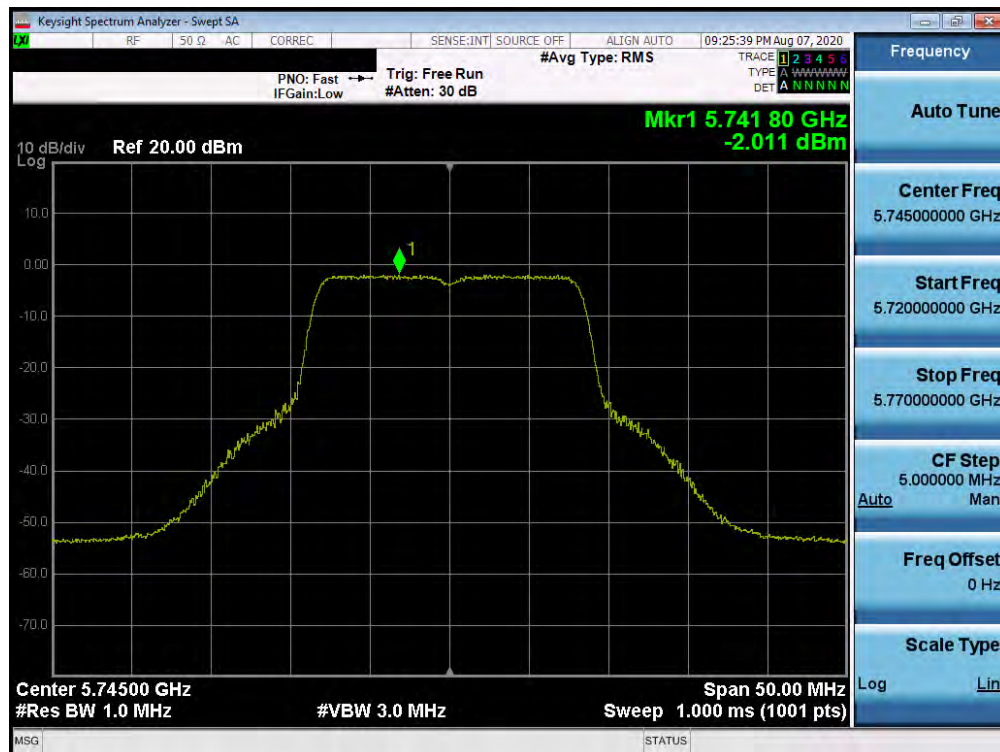


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 158 of 228

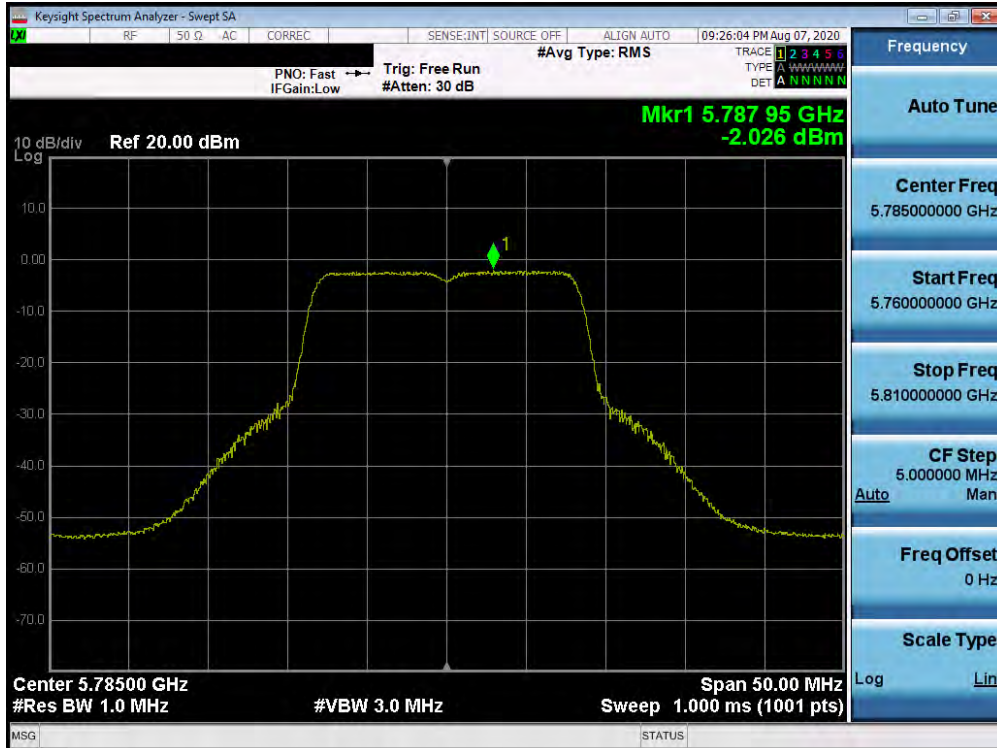
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	a	6	-2.01	30.0	-32.01
	5785	157	a	6	-2.03	30.0	-32.03
	5825	165	a	6	-1.76	30.0	-31.76
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-2.35	30.0	-32.35
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-2.33	30.0	-32.33
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-2.19	30.0	-32.19
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	-2.43	30.0	-32.43
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	-2.70	30.0	-32.70
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	-2.41	30.0	-32.41
	5755	151	n (40MHz)	13.5/15 (MCS0)	-7.48	30.0	-37.48
	5795	159	n (40MHz)	13.5/15 (MCS0)	-7.14	30.0	-37.14
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-7.48	30.0	-37.48
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-7.12	30.0	-37.12
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-8.55	30.0	-38.55
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-7.80	30.0	-37.80

Table 7-23. Band 3 Conducted Power Spectral Density Measurements SISO ANT2

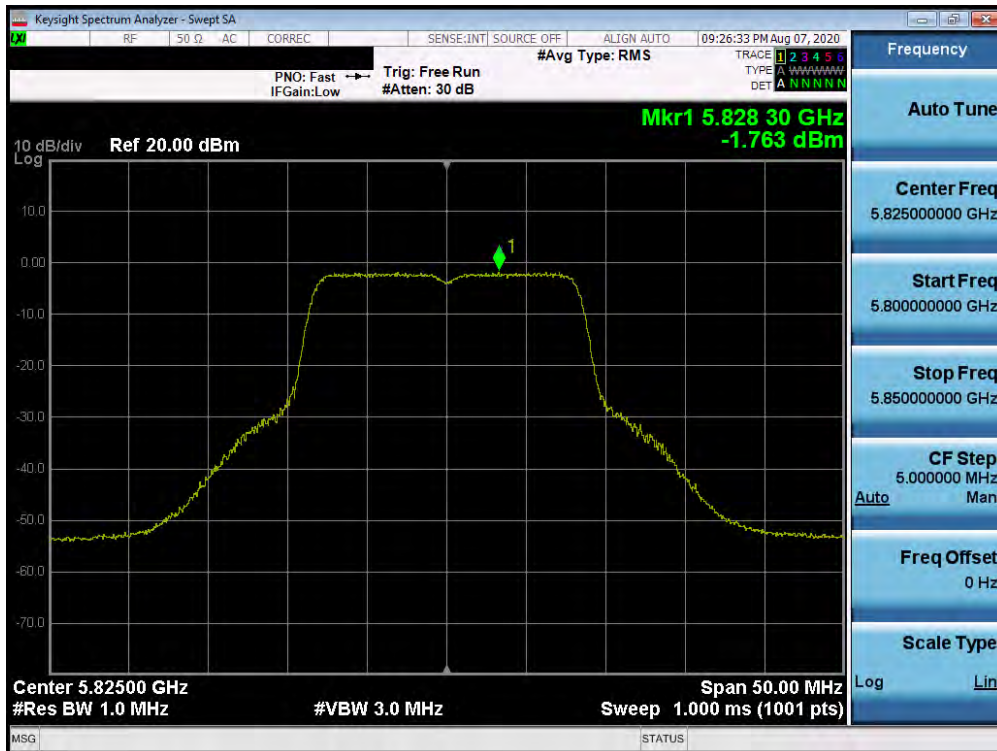


Plot 7-250. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 159 of 228

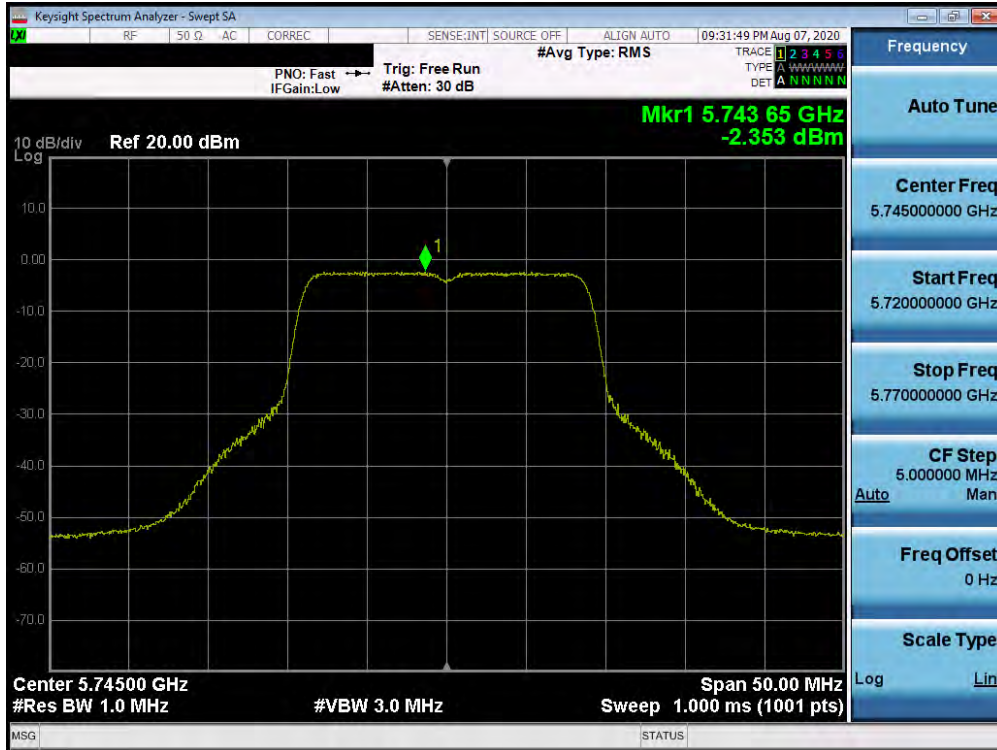


Plot 7-251. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

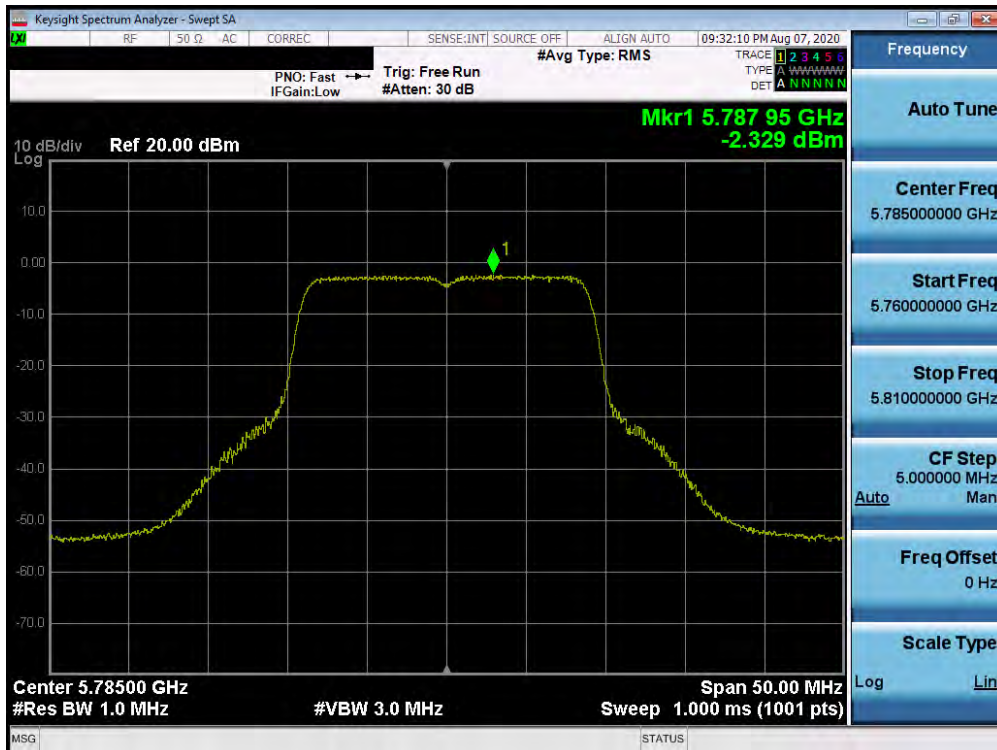


Plot 7-252. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 160 of 228

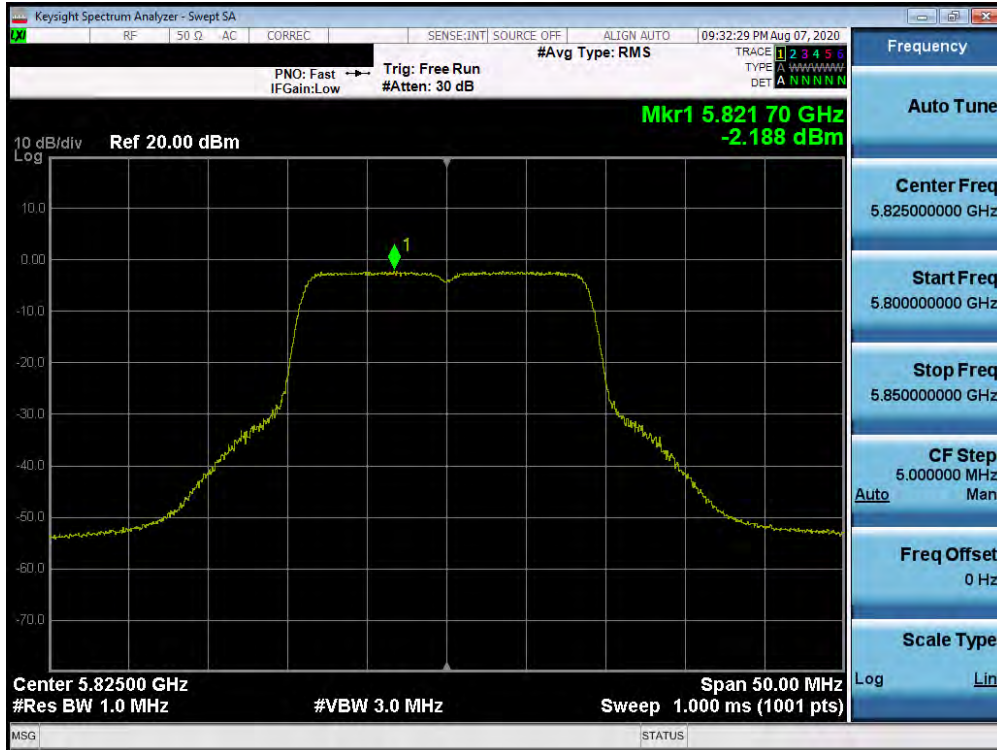


Plot 7-253. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

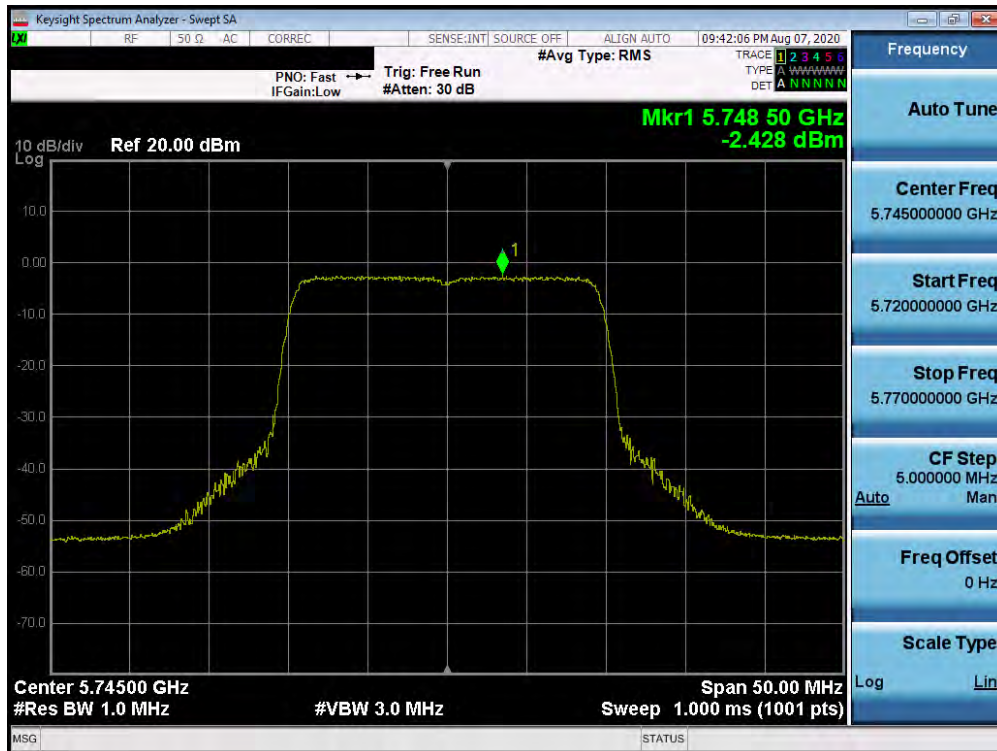


Plot 7-254. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 161 of 228

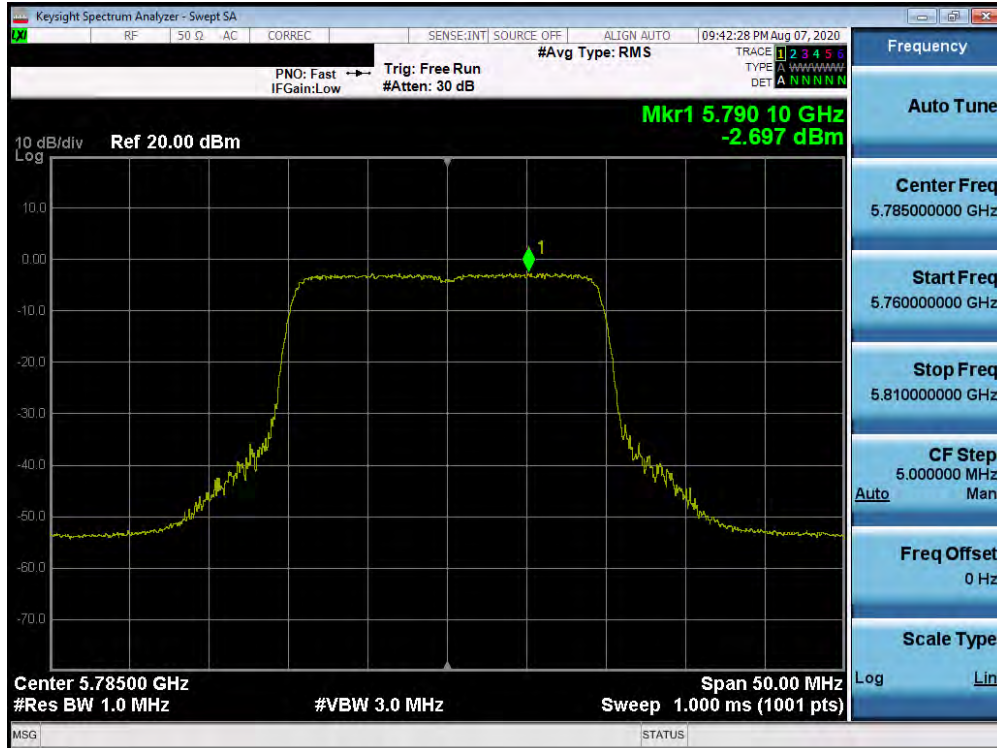


Plot 7-255. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

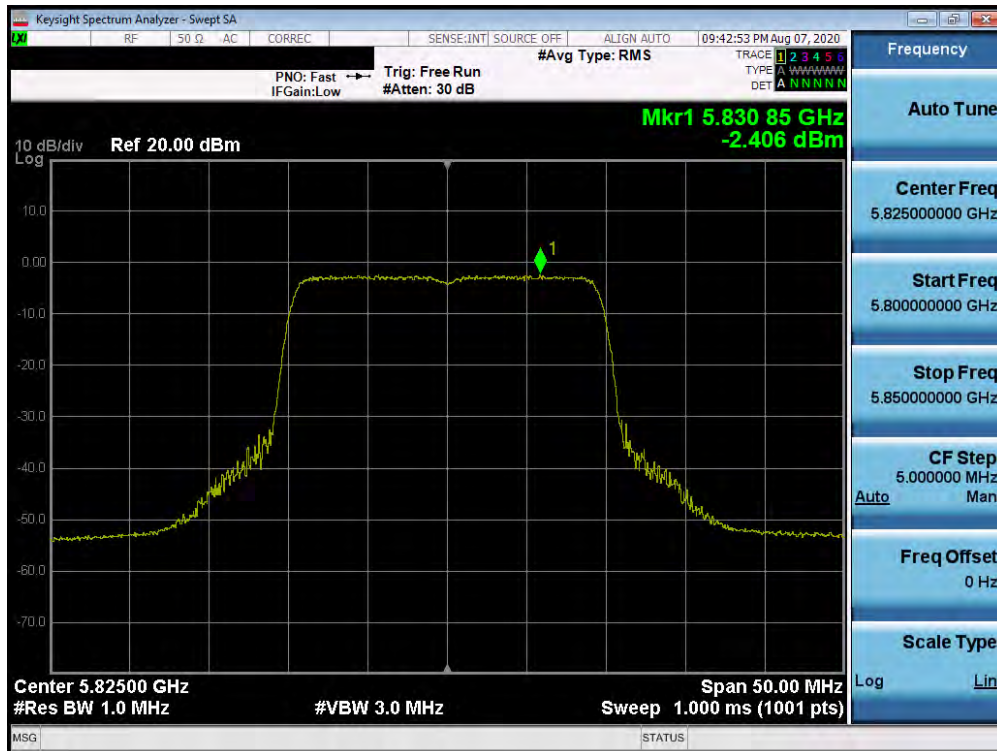


Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 162 of 228

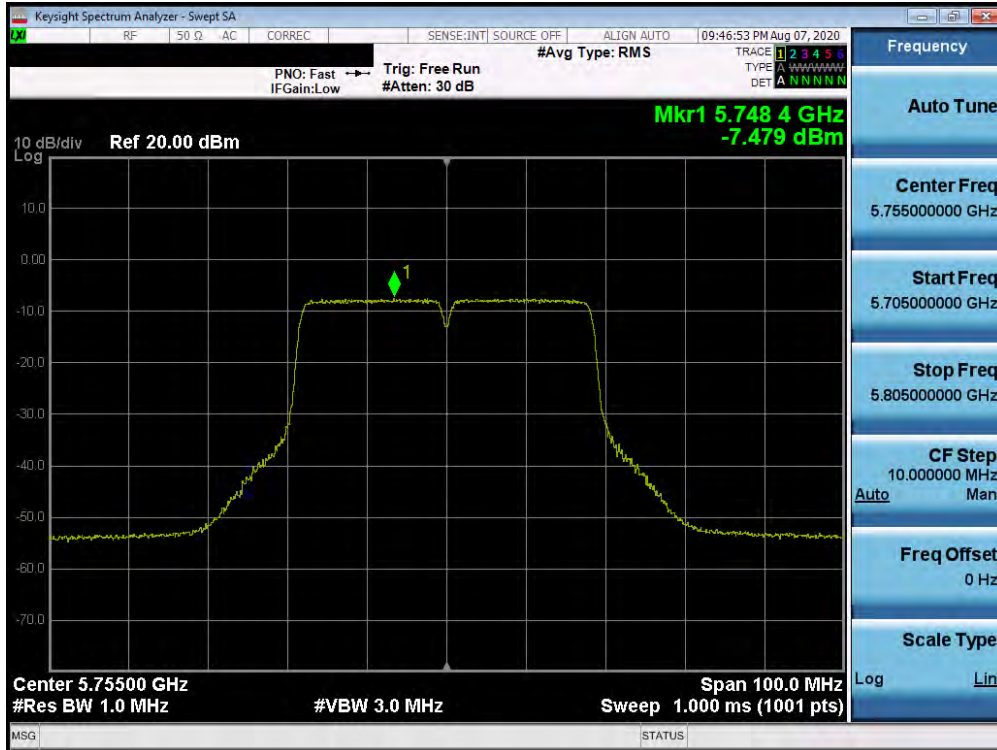


Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

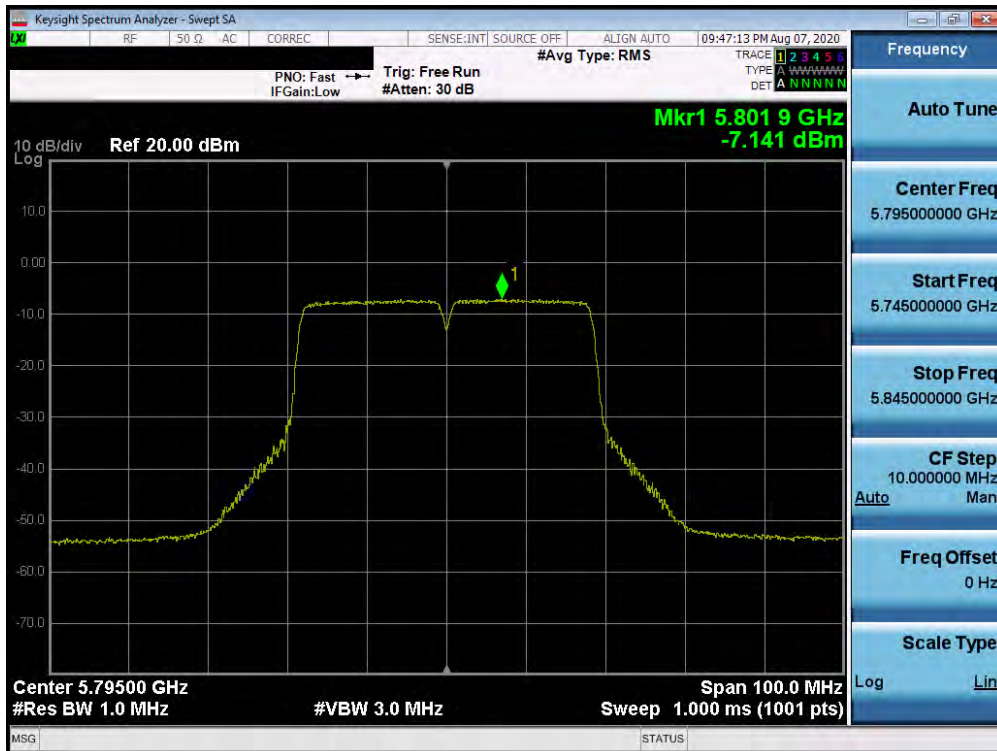


Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 163 of 228



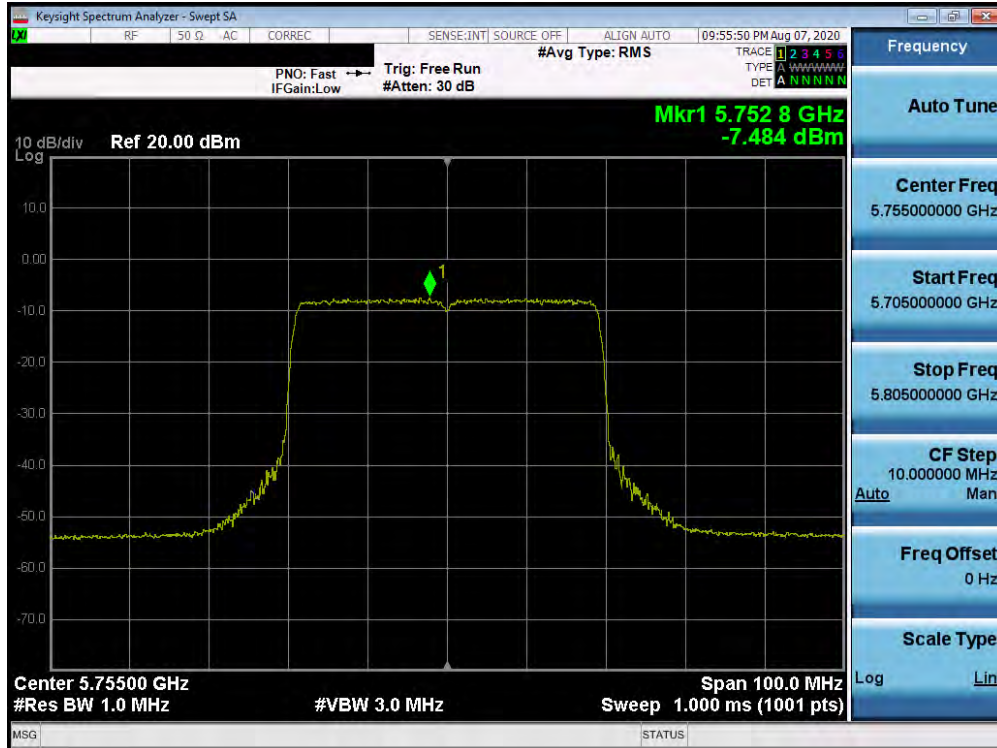
Plot 7-259. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



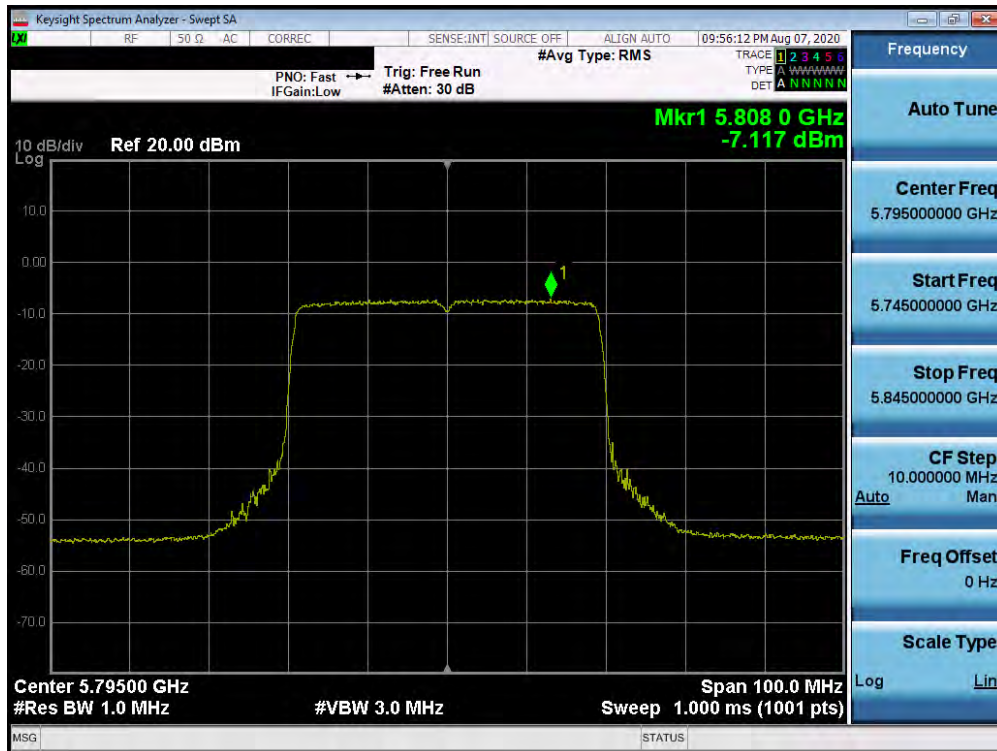
Plot 7-260. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: PY7-57441Y	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 164 of 228



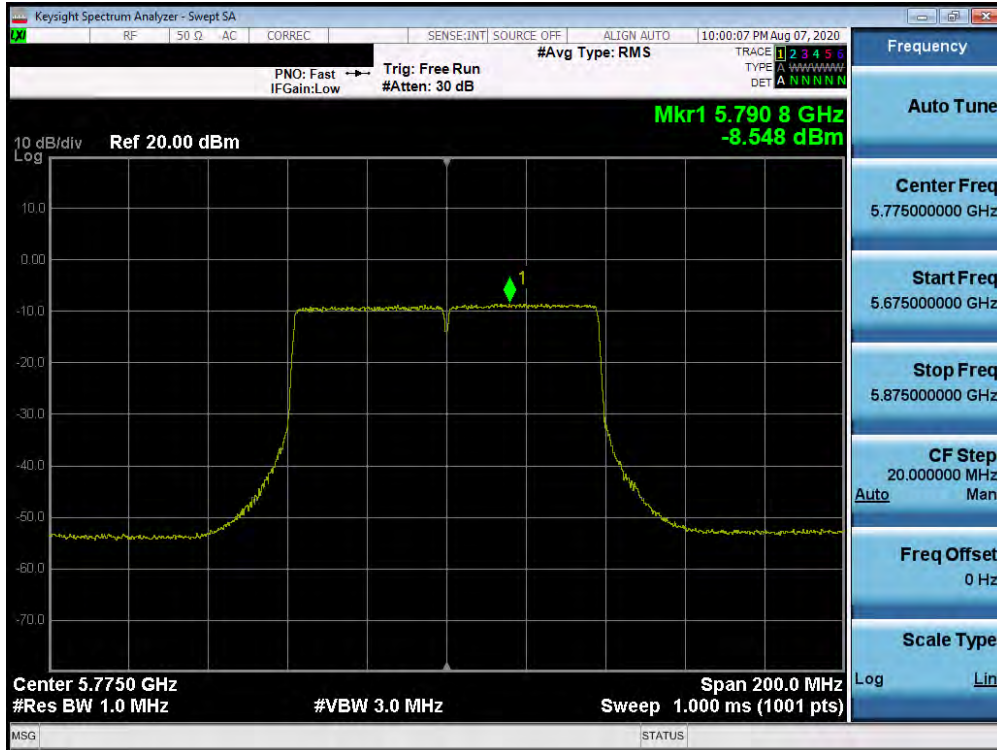


Plot 7-261. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

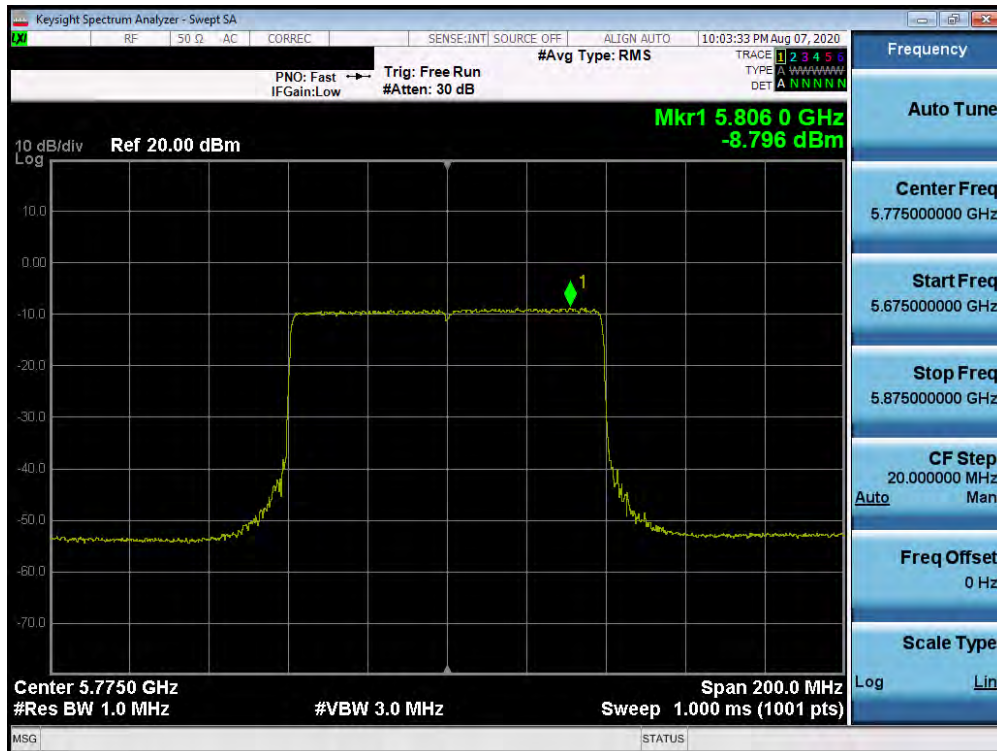


Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 165 of 228



Plot 7-263. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



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

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 166 of 228

## Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	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	a	6	-3.27	-1.12	0.95	11.0	-10.05
	5200	40	a	6	-3.54	-1.34	0.71	11.0	-10.29
	5240	48	a	6	-3.42	-0.86	1.05	11.0	-9.95
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-3.42	-1.40	0.72	11.0	-10.28
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-3.60	-1.52	0.58	11.0	-10.42
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-3.57	-1.19	0.79	11.0	-10.21
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	-3.79	-1.56	0.48	11.0	-10.52
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	-3.78	-0.52	1.16	11.0	-9.84
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	-3.66	-1.08	0.83	11.0	-10.17
	5190	38	n (40MHz)	13.5/15 (MCS0)	-6.23	-5.53	-2.86	11.0	-13.86
	5230	46	n (40MHz)	13.5/15 (MCS0)	-6.41	-6.13	-3.26	11.0	-14.26
	5190	38	ax (40MHz)	13.5/15 (MCS0)	-6.88	-5.63	-3.20	11.0	-14.20
5230	46	ax (40MHz)	13.5/15 (MCS0)	-6.60	-6.11	-3.34	11.0	-14.34	
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-9.98	-7.52	-5.57	11.0	-16.57	
5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-10.10	-7.90	-5.85	11.0	-16.85	
Band 2A	5260	52	a	6	-3.42	-0.75	1.13	11.0	-9.87
	5280	56	a	6	-3.91	-1.16	0.69	11.0	-10.31
	5320	64	a	6	-4.30	-1.32	0.45	11.0	-10.55
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-3.81	-1.15	0.73	11.0	-10.27
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-4.22	-1.62	0.28	11.0	-10.72
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-4.08	-1.68	0.29	11.0	-10.71
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	-3.93	-0.97	0.81	11.0	-10.19
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	-4.42	-1.19	0.50	11.0	-10.50
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	-4.69	-1.41	0.26	11.0	-10.74
	5270	54	n (40MHz)	13.5/15 (MCS0)	-6.75	-5.43	-3.03	11.0	-14.03
	5310	62	n (40MHz)	13.5/15 (MCS0)	-6.79	-5.86	-3.29	11.0	-14.29
	5270	54	ax (40MHz)	13.5/15 (MCS0)	-6.96	-5.58	-3.20	11.0	-14.20
5310	62	ax (40MHz)	13.5/15 (MCS0)	-7.81	-5.73	-3.63	11.0	-14.63	
5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-9.99	-7.84	-5.77	11.0	-16.77	
5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-10.23	-7.99	-5.95	11.0	-16.95	
Band 2C	5500	100	a	6	-5.57	-1.50	-0.06	11.0	-11.06
	5600	120	a	6	-5.62	-1.55	-0.11	11.0	-11.11
	5720	144	a	6	-4.36	-1.70	0.18	11.0	-10.82
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-6.06	-1.77	-0.40	11.0	-11.40
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	-6.01	-1.54	-0.21	11.0	-11.21
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	-4.93	-2.04	-0.24	11.0	-11.24
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	-6.31	-1.99	-0.63	11.0	-11.63
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	-6.10	-1.90	-0.50	11.0	-11.50
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	-4.97	-2.13	-0.32	11.0	-11.32
	5510	102	n (40MHz)	13.5/15 (MCS0)	-9.08	-5.82	-4.14	11.0	-15.14
	5590	118	n (40MHz)	13.5/15 (MCS0)	-9.05	-6.38	-4.50	11.0	-15.50
	5710	142	n (40MHz)	13.5/15 (MCS0)	-8.07	-6.76	-4.36	11.0	-15.36
	5510	102	ax (40MHz)	13.5/15 (MCS0)	-9.00	-5.97	-4.22	11.0	-15.22
	5590	118	ax (40MHz)	13.5/15 (MCS0)	-9.22	-6.89	-4.89	11.0	-15.89
	5710	142	ax (40MHz)	13.5/15 (MCS0)	-8.29	-7.39	-4.81	11.0	-15.81
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-12.48	-8.18	-6.81	11.0	-17.81
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-12.30	-8.45	-6.95	11.0	-17.95
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-11.05	-9.42	-7.15	11.0	-18.15
5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-12.74	-7.84	-6.62	11.0	-17.62	
5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-12.50	-7.65	-6.42	11.0	-17.42	
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-11.28	-8.36	-6.57	11.0	-17.57	

Table 7-24. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 167 of 228

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	a	6	-4.50	-2.01	-0.07	30.0	-30.07
	5785	157	a	6	-4.61	-2.03	-0.12	30.0	-30.12
	5825	165	a	6	-4.27	-1.76	0.17	30.0	-29.83
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-4.74	-2.35	-0.37	30.0	-30.37
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-4.90	-2.33	-0.42	30.0	-30.42
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-4.43	-2.19	-0.15	30.0	-30.15
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	-5.03	-2.43	-0.53	30.0	-30.53
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	-5.12	-2.70	-0.73	30.0	-30.73
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	-4.75	-2.41	-0.41	30.0	-30.41
	5755	151	n (40MHz)	13.5/15 (MCS0)	-7.85	-7.48	-4.65	30.0	-34.65
	5795	159	n (40MHz)	13.5/15 (MCS0)	-7.79	-7.14	-4.44	30.0	-34.44
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-7.89	-7.48	-4.67	30.0	-34.67
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-7.81	-7.12	-4.44	30.0	-34.44
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-11.23	-8.55	-6.68	30.0	-36.68
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-11.20	-7.80	-6.16	30.0	-36.16

**Table 7-25. Band 3 MIMO Conducted Power Spectral Density Measurements**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 168 of 228

**Note:**

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

**Sample MIMO Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be -3.42 dBm for Antenna-1 and -1.40 dBm for Antenna-2.

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

$$(-3.42 \text{ dBm} + -1.40 \text{ dBm}) = (0.46 \text{ mW} + 0.72 \text{ mW}) = 1.18 \text{ mW} = 0.72 \text{ dBm}$$

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 169 of 228

## 7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

### Test Overview and Limit

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

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

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

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

**All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-26 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-26. Radiated Limits

### Test Procedures Used

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

### Test Settings

#### Average Measurements above 1GHz (Method AD)

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

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### Peak Measurements above 1GHz

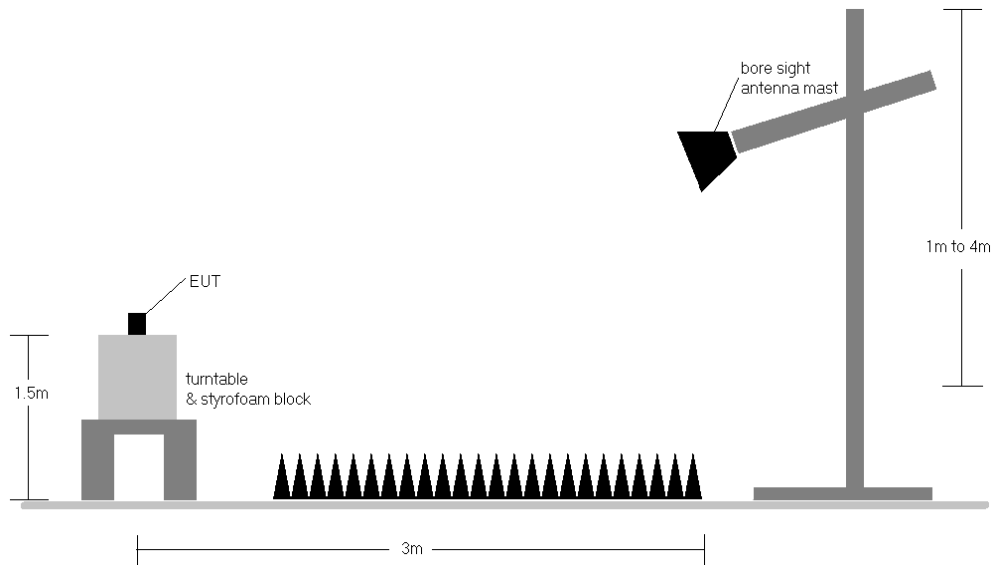
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

### Test Setup

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



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

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## Test Notes

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-26.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-26. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB $\mu$ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

## Sample Calculations

### Determining Spurious Emissions Levels

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

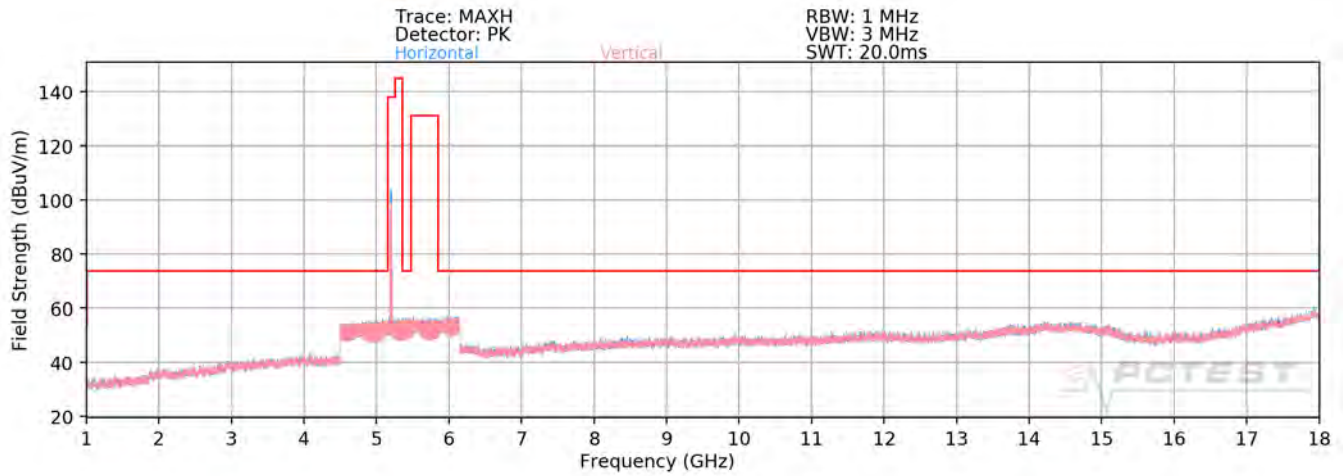
### Radiated Band Edge Measurement Offset

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

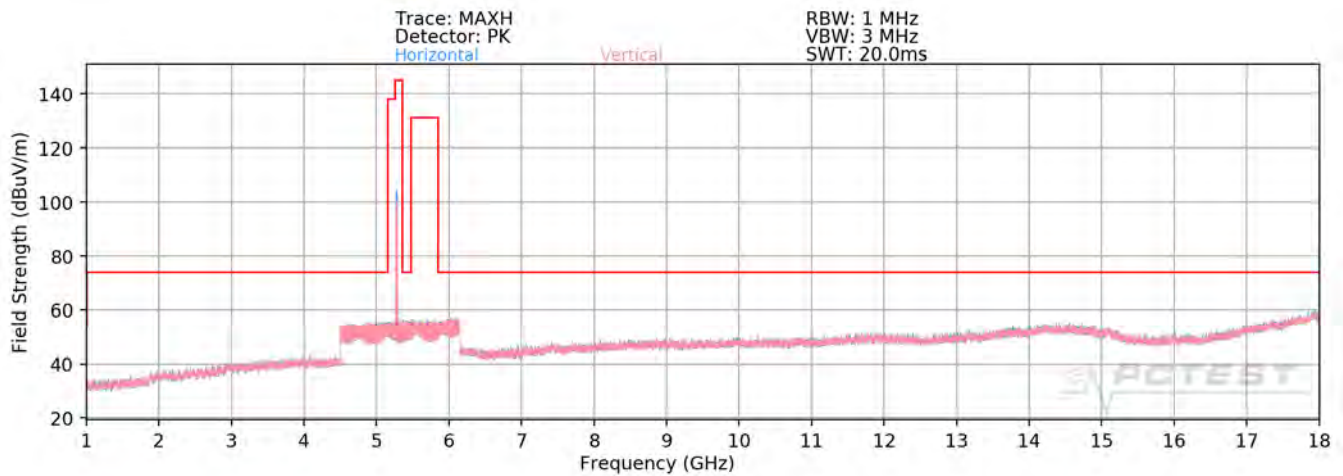
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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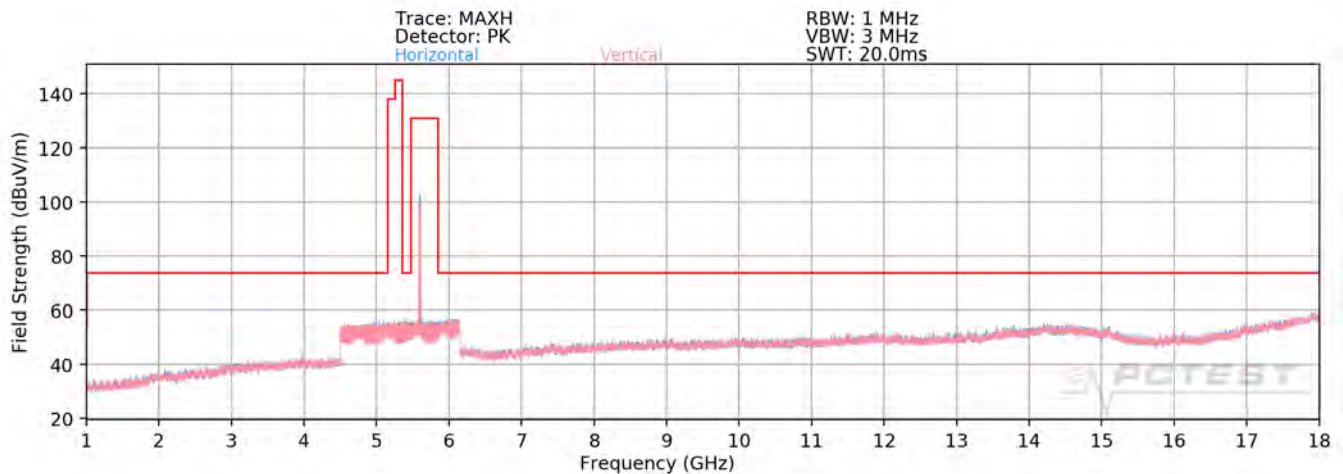
### 7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40)

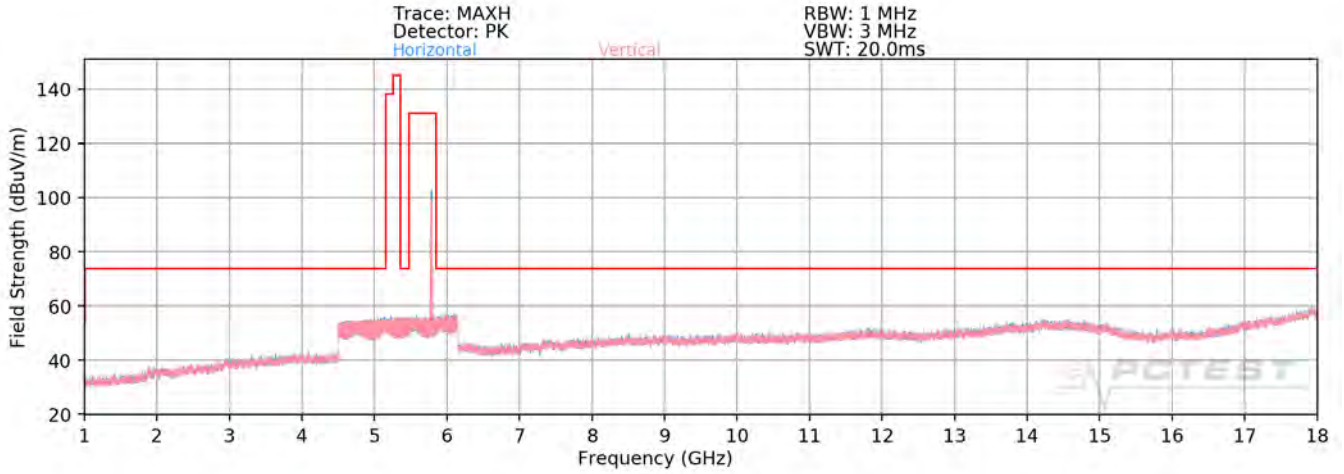


Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

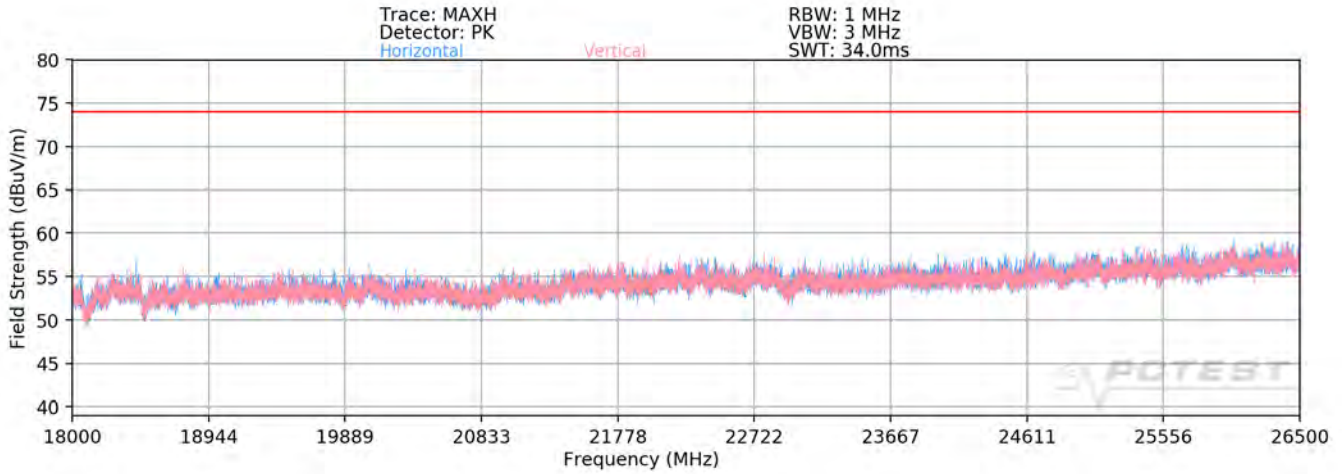
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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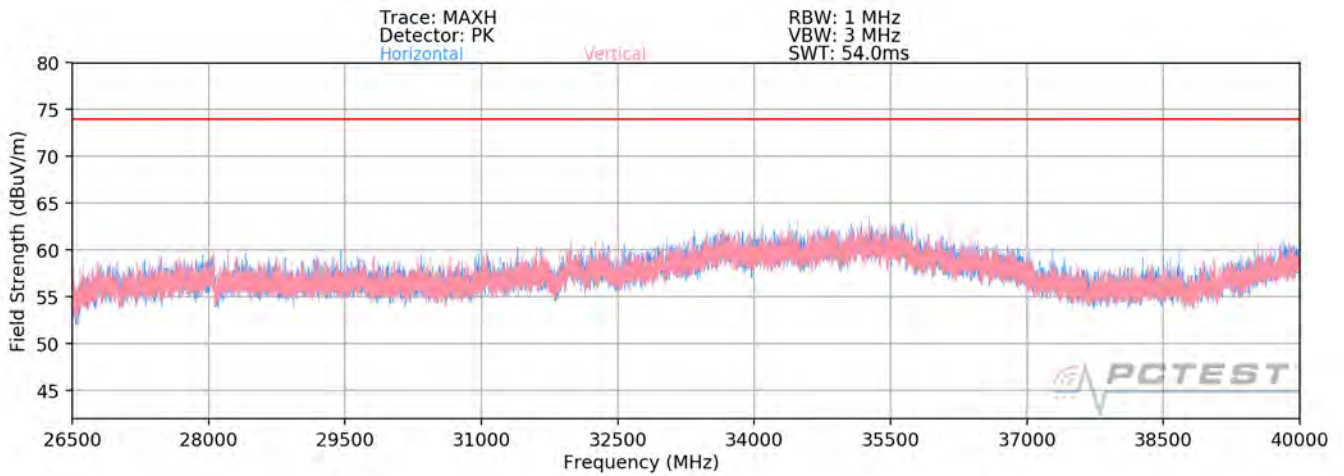
**Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157)**

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### SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-269. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)**



**Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)**

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## SISO Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-68.75	11.67	0.00	49.92	68.20	-18.28
* 15540.00	Average	H	-	-	-81.58	13.37	0.00	38.79	53.98	-15.19
* 15540.00	Peak	H	-	-	-69.52	13.37	0.00	50.85	73.98	-23.13
* 20720.00	Average	H	-	-	-64.10	0.47	-9.54	33.83	53.98	-20.15
* 20720.00	Peak	H	-	-	-51.59	0.47	-9.54	46.34	73.98	-27.64
25900.00	Peak	H	-	-	-51.27	2.80	-9.54	48.99	68.20	-19.21

Table 7-27. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	312	65	-64.34	11.44	0.00	54.10	68.20	-14.10
* 15600.00	Average	H	-	-	-82.34	14.07	0.00	38.73	53.98	-15.25
* 15600.00	Peak	H	-	-	-70.36	14.07	0.00	50.71	73.98	-23.27
* 20800.00	Average	H	-	-	-63.82	0.57	-9.54	34.21	53.98	-19.77
* 20800.00	Peak	H	-	-	-51.79	0.57	-9.54	46.24	73.98	-27.74
26000.00	Peak	H	-	-	-49.98	3.06	-9.54	50.53	68.20	-17.67

Table 7-28. Radiated Measurements SISO ANT1

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-68.11	11.98	0.00	50.87	68.20	-17.33
* 15720.00	Average	H	-	-	-81.84	13.52	0.00	38.68	53.98	-15.30
* 15720.00	Peak	H	-	-	-69.90	13.52	0.00	50.62	73.98	-23.36
* 20960.00	Average	H	-	-	-63.52	0.89	-9.54	34.83	53.98	-19.15
* 20960.00	Peak	H	-	-	-51.54	0.89	-9.54	46.81	73.98	-27.17
26200.00	Peak	H	-	-	-50.90	3.36	-9.54	49.91	68.20	-18.29

Table 7-29. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	111	68	-62.13	12.16	0.00	57.03	68.20	-11.17
* 15780.00	Average	H	-	-	-81.70	14.07	0.00	39.37	53.98	-14.61
* 15780.00	Peak	H	-	-	-69.26	14.07	0.00	51.81	73.98	-22.17
* 21040.00	Average	H	-	-	-63.64	0.80	-9.54	34.62	53.98	-19.36
* 21040.00	Peak	H	-	-	-51.64	0.80	-9.54	46.62	73.98	-27.36
26300.00	Peak	H	-	-	-50.21	3.24	-9.54	50.49	68.20	-17.71

Table 7-30. Radiated Measurements SISO ANT1

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	113	65	-62.80	11.96	0.00	56.16	68.20	-12.04
* 15840.00	Average	H	-	-	-81.57	13.43	0.00	38.86	53.98	-15.12
* 15840.00	Peak	H	-	-	-69.49	13.43	0.00	50.94	73.98	-23.04
* 21120.00	Average	H	-	-	-63.96	1.01	-9.54	34.51	53.98	-19.47
* 21120.00	Peak	H	-	-	-51.75	1.01	-9.54	46.72	73.98	-27.26
26400.00	Peak	H	-	-	-50.19	3.46	-9.54	50.72	68.20	-17.48

Table 7-31. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	114	58	-76.26	12.21	0.00	42.95	53.98	-11.03
* 10640.00	Peak	H	114	58	-62.20	12.21	0.00	57.01	73.98	-16.97
* 15960.00	Average	H	-	-	-81.68	14.44	0.00	39.76	53.98	-14.22
* 15960.00	Peak	H	-	-	-70.02	14.44	0.00	51.42	73.98	-22.56
* 21280.00	Average	H	-	-	-64.08	1.07	-9.54	34.45	53.98	-19.53
* 21280.00	Peak	H	-	-	-51.99	1.07	-9.54	46.54	73.98	-27.44
26600.00	Peak	H	-	-	-51.14	3.86	-9.54	50.17	68.20	-18.03

Table 7-32. Radiated Measurements SISO ANT1

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	319	67	-78.19	12.31	0.00	41.12	53.98	-12.86
* 11000.00	Peak	H	319	67	-65.16	12.31	0.00	54.15	73.98	-19.83
16500.00	Peak	H	-	-	-69.34	14.99	0.00	52.65	68.20	-15.55
22000.00	Peak	H	-	-	-50.62	1.32	-9.54	48.16	68.20	-20.04
27500.00	Peak	H	-	-	-49.26	3.29	-9.54	51.49	68.20	-16.71

Table 7-33. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5600MHz  
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-80.64	16.98	0.00	43.34	53.98	-10.64
* 11200.00	Peak	H	-	-	-69.28	16.98	0.00	54.70	73.98	-19.28
16800.00	Peak	H	-	-	-70.54	23.78	0.00	60.24	68.20	-7.96
* 22400.00	Average	H	-	-	-63.78	1.80	-9.54	35.48	53.98	-18.50
* 22400.00	Peak	H	-	-	-51.18	1.80	-9.54	48.08	73.98	-25.90
28000.00	Peak	H	-	-	-49.71	3.88	-9.54	51.62	68.20	-16.58

Table 7-34. Radiated Measurements SISO ANT1

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5720MHz  
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-81.18	16.92	0.00	42.74	53.98	-11.24
* 11440.00	Peak	H	-	-	-69.66	16.92	0.00	54.26	73.98	-19.72
17160.00	Peak	H	-	-	-69.85	23.37	0.00	60.52	68.20	-7.68
* 22880.00	Average	H	-	-	-63.12	1.70	-9.54	36.04	53.98	-17.94
* 22880.00	Peak	H	-	-	-50.75	1.70	-9.54	48.41	73.98	-25.57
28600.00	Peak	H	-	-	-50.90	3.98	-9.54	50.53	68.20	-17.67

Table 7-35. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.11	13.85	0.00	39.74	53.98	-14.24
* 11490.00	Peak	H	-	-	-69.12	13.85	0.00	51.73	73.98	-22.25
17235.00	Peak	H	-	-	-69.23	18.00	0.00	55.77	68.20	-12.43
* 22980.00	Average	H	-	-	-63.48	1.59	-9.54	35.57	53.98	-18.41
* 22980.00	Peak	H	-	-	-51.46	1.59	-9.54	47.59	73.98	-26.39
28725.00	Peak	H	-	-	-50.70	3.89	-9.54	50.65	68.20	-17.55

Table 7-36. Radiated Measurements SISO ANT1

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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-80.94	16.62	0.00	42.68	53.98	-11.30
* 11570.00	Peak	H	-	-	-69.32	16.62	0.00	54.30	73.98	-19.68
17355.00	Peak	H	-	-	-70.71	24.47	0.00	60.76	68.20	-7.44
23140.00	Peak	H	-	-	-50.81	1.64	-9.54	48.29	68.20	-19.91
28925.00	Peak	H	-	-	-50.83	3.45	-9.54	50.08	68.20	-18.12

Table 7-37. Radiated Measurements SISO ANT1

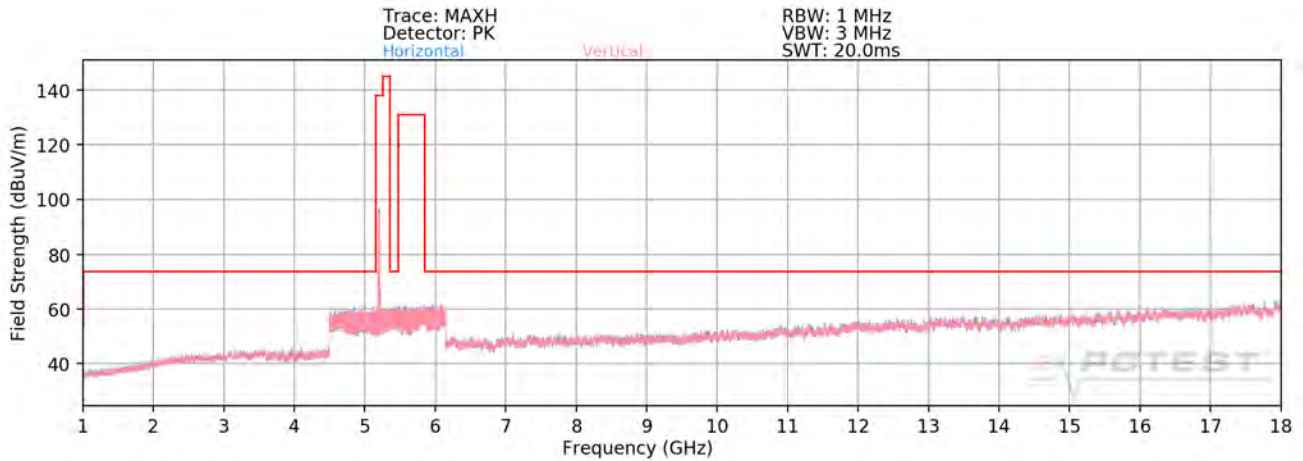
Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	306	63	-78.02	13.55	0.00	42.53	53.98	-11.45
* 11650.00	Peak	H	306	63	-64.62	13.55	0.00	55.93	73.98	-18.05
17475.00	Peak	H	-	-	-69.06	18.86	0.00	56.80	68.20	-11.40
23300.00	Peak	H	-	-	-51.62	1.66	-9.54	47.50	68.20	-20.70
29125.00	Peak	H	-	-	-50.67	3.67	-9.54	50.46	68.20	-17.74

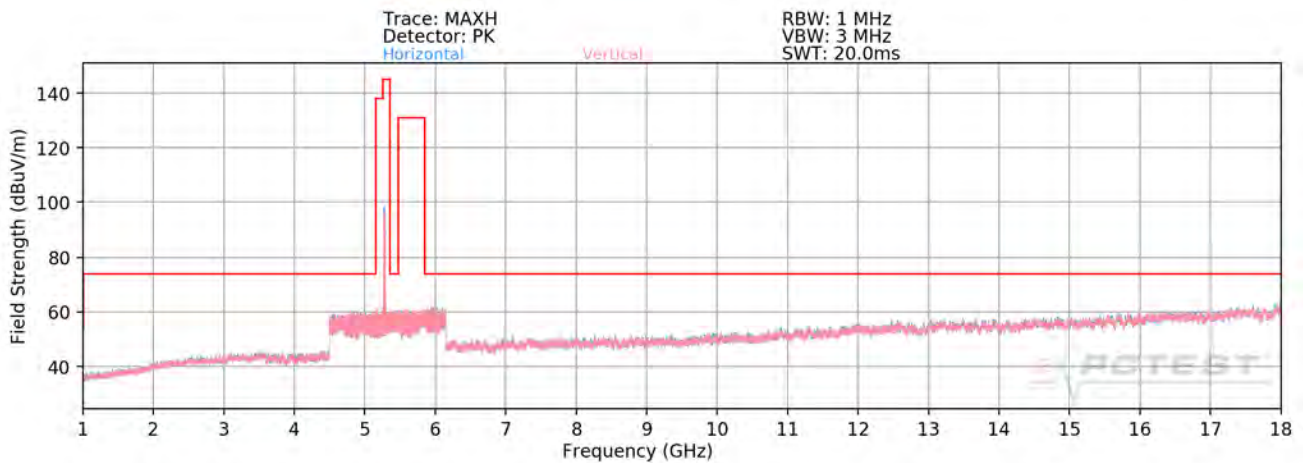
Table 7-38. Radiated Measurements SISO ANT1

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 181 of 228

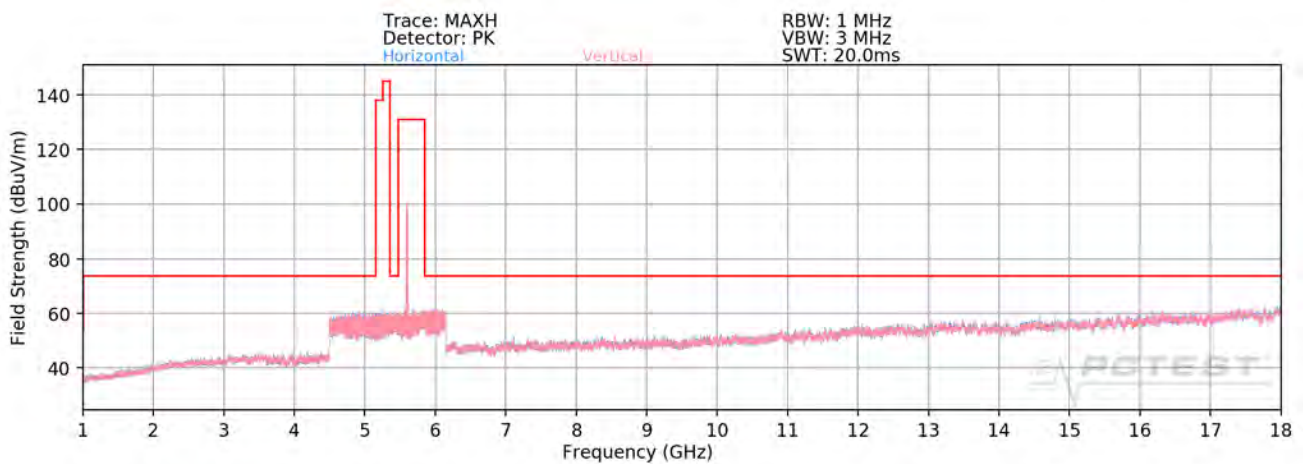
## 7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U1 Ch. 40)

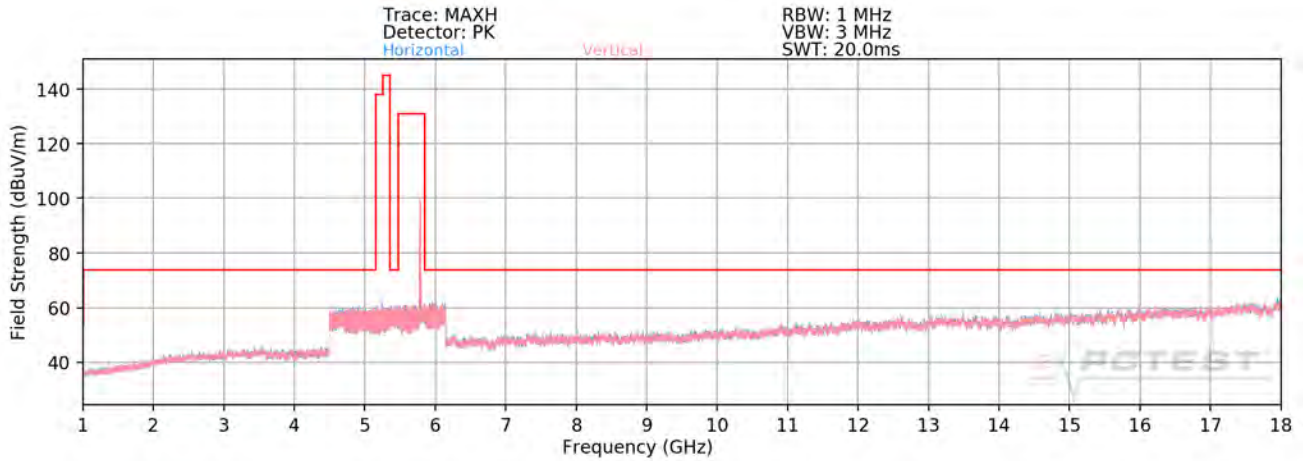


Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-273. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 120)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 182 of 228



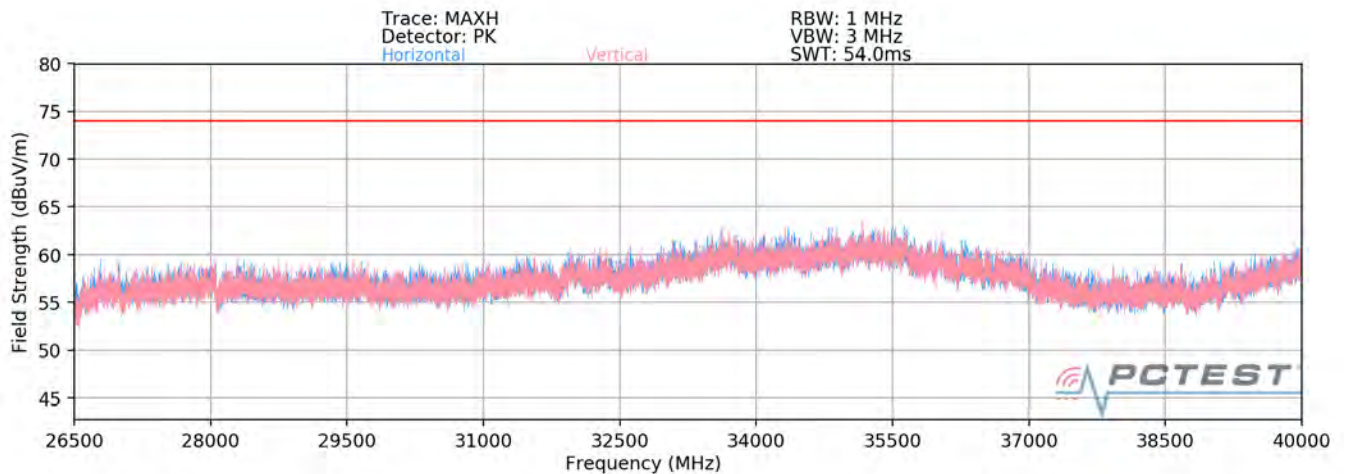
**Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U3 Ch. 157)**

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 183 of 228

## SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)**



**Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 184 of 228

## SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-69.75	15.16	0.00	52.41	68.20	-15.79
* 15540.00	Average	H	-	-	-81.54	22.41	0.00	47.87	53.98	-6.11
* 15540.00	Peak	H	-	-	-70.46	22.41	0.00	58.95	73.98	-15.03
* 20720.00	Average	H	-	-	-64.04	0.47	-9.54	33.89	53.98	-20.09
* 20720.00	Peak	H	-	-	-51.50	0.47	-9.54	46.43	73.98	-27.55
25900.00	Peak	H	-	-	-50.39	2.80	-9.54	49.87	68.20	-18.33

Table 7-39. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-69.08	14.86	0.00	52.78	68.20	-15.42
* 15600.00	Average	H	-	-	-81.52	22.47	0.00	47.95	53.98	-6.03
* 15600.00	Peak	H	-	-	-70.31	22.47	0.00	59.16	73.98	-14.82
* 20800.00	Average	H	-	-	-63.78	0.57	-9.54	34.25	53.98	-19.73
* 20800.00	Peak	H	-	-	-51.60	0.57	-9.54	46.43	73.98	-27.55
26000.00	Peak	H	-	-	-50.15	3.06	-9.54	50.36	68.20	-17.84

Table 7-40. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 185 of 228	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-69.34	15.17	0.00	52.83	68.20	-15.37
* 15720.00	Average	H	-	-	-81.44	21.99	0.00	47.55	53.98	-6.43
* 15720.00	Peak	H	-	-	-69.70	21.99	0.00	59.29	73.98	-14.69
* 20960.00	Average	H	-	-	-63.54	0.89	-9.54	34.81	53.98	-19.17
* 20960.00	Peak	H	-	-	-51.27	0.89	-9.54	47.08	73.98	-26.90
26200.00	Peak	H	-	-	-50.86	3.36	-9.54	49.95	68.20	-18.25

Table 7-41. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.62	15.64	0.00	53.02	68.20	-15.18
* 15780.00	Average	H	-	-	-81.39	21.09	0.00	46.70	53.98	-7.28
* 15780.00	Peak	H	-	-	-70.31	21.09	0.00	57.78	73.98	-16.20
* 21040.00	Average	H	-	-	-63.64	0.80	-9.54	34.62	53.98	-19.36
* 21040.00	Peak	H	-	-	-51.15	0.80	-9.54	47.11	73.98	-26.87
26300.00	Peak	H	-	-	-49.84	3.24	-9.54	50.86	68.20	-17.34

Table 7-42. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 186 of 228	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-69.87	15.65	0.00	52.78	68.20	-15.42
* 15840.00	Average	H	-	-	-81.38	23.57	0.00	49.19	53.98	-4.79
* 15840.00	Peak	H	-	-	-69.64	23.57	0.00	60.93	73.98	-13.05
* 21120.00	Average	H	-	-	-63.98	1.01	-9.54	34.49	53.98	-19.49
* 21120.00	Peak	H	-	-	-51.95	1.01	-9.54	46.52	73.98	-27.46
26400.00	Peak	H	-	-	-49.50	3.46	-9.54	51.41	68.20	-16.79

Table 7-43. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-81.02	15.76	0.00	41.74	53.98	-12.24
* 10640.00	Peak	H	-	-	-69.47	15.76	0.00	53.29	73.98	-20.69
* 15960.00	Average	H	-	-	-81.48	22.83	0.00	48.35	53.98	-5.63
* 15960.00	Peak	H	-	-	-70.09	22.83	0.00	59.74	73.98	-14.24
* 21280.00	Average	H	-	-	-64.06	1.07	-9.54	34.47	53.98	-19.51
* 21280.00	Peak	H	-	-	-51.72	1.07	-9.54	46.81	73.98	-27.17
26600.00	Peak	H	-	-	-50.71	3.86	-9.54	50.60	68.20	-17.60

Table 7-44. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 187 of 228

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-80.27	16.02	0.00	42.75	53.98	-11.23
* 11000.00	Peak	H	-	-	-68.69	16.02	0.00	54.33	73.98	-19.65
16500.00	Peak	H	-	-	-69.94	24.10	0.00	61.16	68.20	-7.04
22000.00	Peak	H	-	-	-51.39	1.32	-9.54	47.39	68.20	-20.81
27500.00	Peak	H	-	-	-50.54	3.29	-9.54	50.21	68.20	-17.99

Table 7-45. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5600MHz  
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-80.64	16.98	0.00	43.34	53.98	-10.64
* 11200.00	Peak	H	-	-	-69.28	16.98	0.00	54.70	73.98	-19.28
16800.00	Peak	H	-	-	-70.54	23.78	0.00	60.24	68.20	-7.96
* 22400.00	Average	H	-	-	-63.78	1.80	-9.54	35.48	53.98	-18.50
* 22400.00	Peak	H	-	-	-51.18	1.80	-9.54	48.08	73.98	-25.90
28000.00	Peak	H	-	-	-49.71	3.88	-9.54	51.62	68.20	-16.58

Table 7-46. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 188 of 228



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5720MHz  
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-81.18	16.92	0.00	42.74	53.98	-11.24
* 11440.00	Peak	H	-	-	-69.66	16.92	0.00	54.26	73.98	-19.72
17160.00	Peak	H	-	-	-69.85	23.37	0.00	60.52	68.20	-7.68
* 22880.00	Average	H	-	-	-63.12	1.70	-9.54	36.04	53.98	-17.94
* 22880.00	Peak	H	-	-	-50.75	1.70	-9.54	48.41	73.98	-25.57
28600.00	Peak	H	-	-	-50.90	3.98	-9.54	50.53	68.20	-17.67

Table 7-47. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.15	17.46	0.00	43.31	53.98	-10.67
* 11490.00	Peak	H	-	-	-69.73	17.46	0.00	54.73	73.98	-19.25
17235.00	Peak	H	-	-	-70.21	24.92	0.00	61.71	68.20	-6.49
* 22980.00	Average	H	-	-	-63.32	1.59	-9.54	35.73	53.98	-18.25
* 22980.00	Peak	H	-	-	-51.17	1.59	-9.54	47.88	73.98	-26.10
28725.00	Peak	H	-	-	-50.72	3.89	-9.54	50.63	68.20	-17.57

Table 7-48. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 189 of 228	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-80.94	16.62	0.00	42.68	53.98	-11.30
* 11570.00	Peak	H	-	-	-69.32	16.62	0.00	54.30	73.98	-19.68
17355.00	Peak	H	-	-	-70.71	24.47	0.00	60.76	68.20	-7.44
23140.00	Peak	H	-	-	-50.81	1.64	-9.54	48.29	68.20	-19.91
28925.00	Peak	H	-	-	-50.83	3.45	-9.54	50.08	68.20	-18.12

Table 7-49. Radiated Measurements SISO ANT2

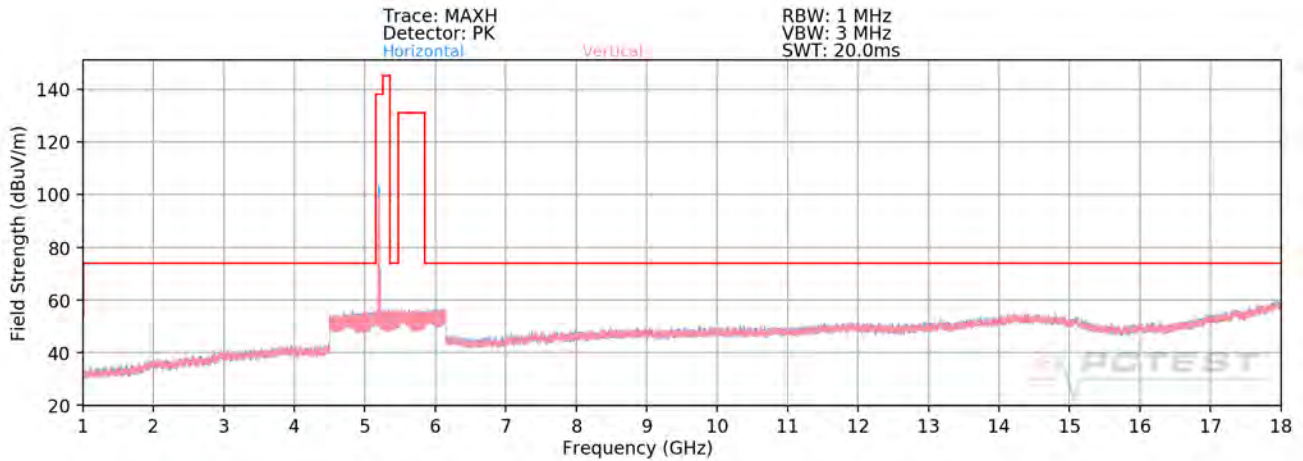
Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-81.21	17.51	0.00	43.30	53.98	-10.68
* 11650.00	Peak	H	-	-	-69.94	17.51	0.00	54.57	73.98	-19.41
17475.00	Peak	H	-	-	-70.67	26.14	0.00	62.47	68.20	-5.73
23300.00	Peak	H	-	-	-51.15	1.66	-9.54	47.97	68.20	-20.23
29125.00	Peak	H	-	-	-50.56	3.67	-9.54	50.57	68.20	-17.63

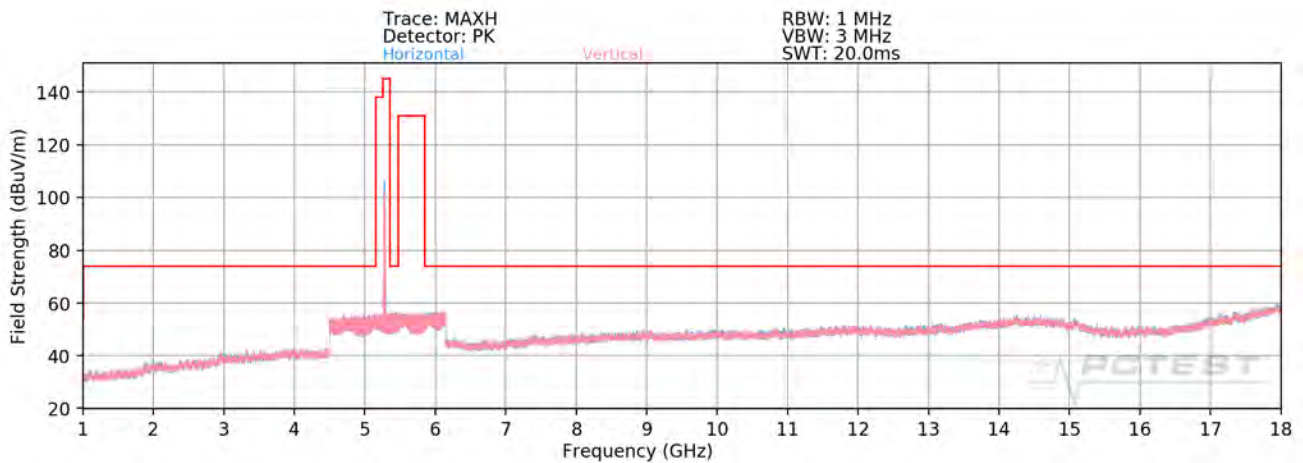
Table 7-50. Radiated Measurements SISO ANT2

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 190 of 228	

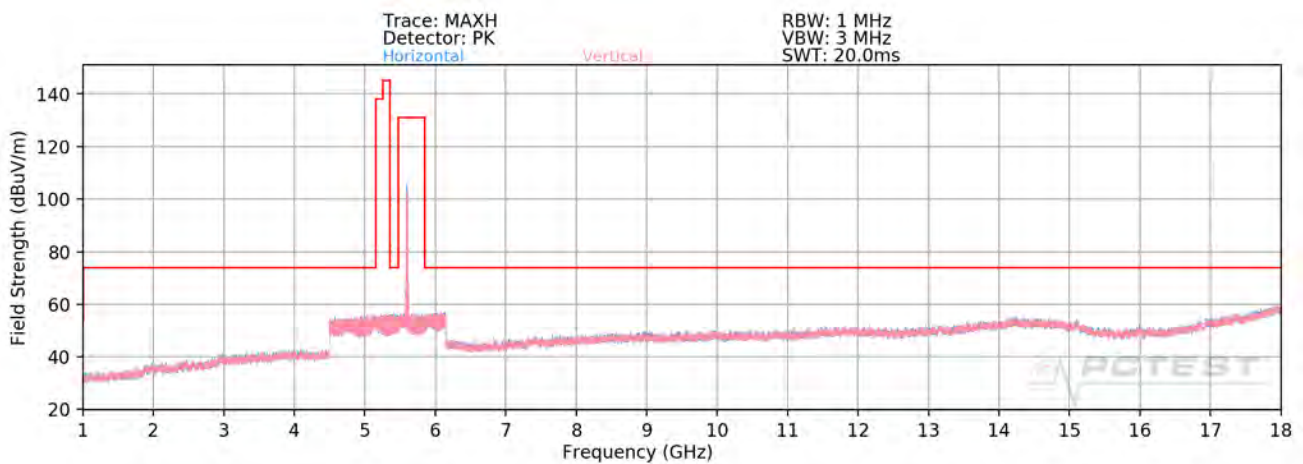
### 7.6.3 MIMO Radiated Spurious Emission Measurements



Plot 7-277. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 40)

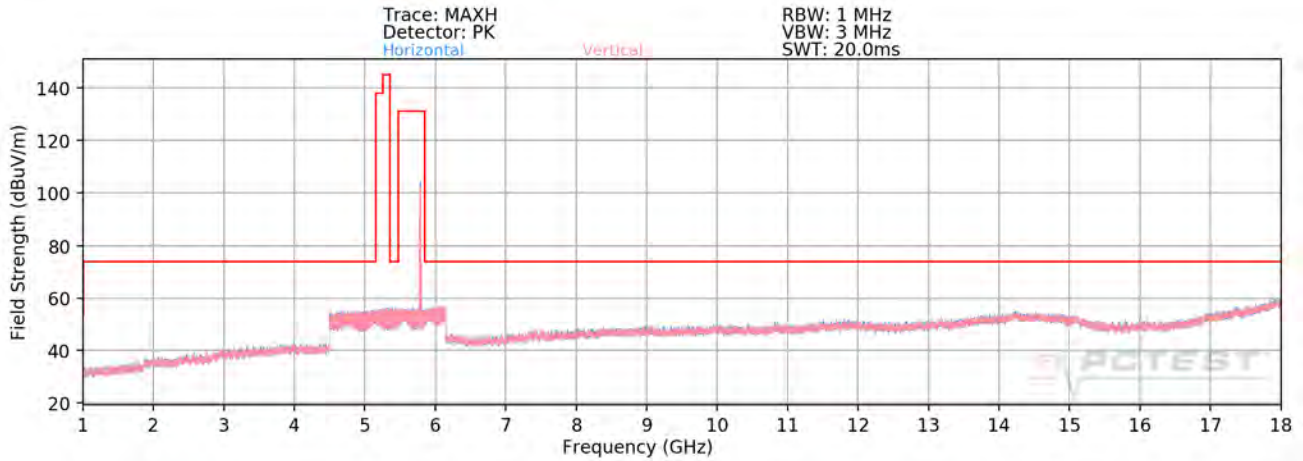


Plot 7-278. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 56)



Plot 7-279. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 116120)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 191 of 228



**Plot 7-280. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 157)**

FCC ID: PY7-57441Y	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 192 of 228

## MIMO Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-68.46	11.67	0.00	50.21	68.20	-17.99
* 15540.00	Average	H	-	-	-81.43	13.37	0.00	38.94	53.98	-15.04
* 15540.00	Peak	H	-	-	-68.99	13.37	0.00	51.38	73.98	-22.60
* 20720.00	Average	H	-	-	-63.54	0.47	-9.54	34.39	53.98	-19.59
* 20720.00	Peak	H	-	-	-50.91	0.47	-9.54	47.02	73.98	-26.96
25900.00	Peak	H	-	-	-51.06	2.80	-9.54	49.20	68.20	-19.00

**Table 7-51. Radiated Measurements MIMO**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-68.44	11.44	0.00	50.00	68.20	-18.20
* 15600.00	Average	H	-	-	-81.33	14.07	0.00	39.74	53.98	-14.24
* 15600.00	Peak	H	-	-	-69.46	14.07	0.00	51.61	73.98	-22.37
* 20800.00	Average	H	-	-	-63.14	0.57	-9.54	34.89	53.98	-19.09
* 20800.00	Peak	H	-	-	-51.55	0.57	-9.54	46.48	73.98	-27.50
26000.00	Peak	H	-	-	-50.10	3.06	-9.54	50.41	68.20	-17.79

**Table 7-52. Radiated Measurements MIMO**

Worst Case Mode: 802.11a

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 193 of 228	

Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	H	-	-	-68.62	11.98	0.00	50.36	68.20	-17.84
* 15720.00	Average	H	-	-	-81.54	13.52	0.00	38.98	53.98	-15.00
* 15720.00	Peak	H	-	-	-70.02	13.52	0.00	50.50	73.98	-23.48
* 20960.00	Average	H	-	-	-63.45	0.89	-9.54	34.90	53.98	-19.08
* 20960.00	Peak	H	-	-	-50.82	0.89	-9.54	47.53	73.98	-26.45
26200.00	Peak	H	-	-	-51.04	3.36	-9.54	49.77	68.20	-18.43

**Table 7-53. Radiated Measurements MIMO**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	H	-	-	-68.94	12.16	0.00	50.22	68.20	-17.98
* 15780.00	Average	H	-	-	-81.61	14.07	0.00	39.46	53.98	-14.52
* 15780.00	Peak	H	-	-	-69.66	14.07	0.00	51.41	73.98	-22.57
* 21040.00	Average	H	-	-	-63.72	0.80	-9.54	34.54	53.98	-19.44
* 21040.00	Peak	H	-	-	-51.27	0.80	-9.54	46.99	73.98	-26.99
26300.00	Peak	H	-	-	-49.83	3.24	-9.54	50.87	68.20	-17.33

**Table 7-54. Radiated Measurements MIMO**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 194 of 228

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-68.89	11.96	0.00	50.07	68.20	-18.13
* 15840.00	Average	H	-	-	-81.88	13.43	0.00	38.55	53.98	-15.43
* 15840.00	Peak	H	-	-	-69.48	13.43	0.00	50.95	73.98	-23.03
* 21120.00	Average	H	-	-	-63.94	1.01	-9.54	34.53	53.98	-19.45
* 21120.00	Peak	H	-	-	-51.86	1.01	-9.54	46.61	73.98	-27.37
26400.00	Peak	H	-	-	-51.03	3.46	-9.54	49.88	68.20	-18.32

Table 7-55. Radiated Measurements MIMO

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-80.74	12.21	0.00	38.47	53.98	-15.51
* 10640.00	Peak	H	-	-	-68.21	12.21	0.00	51.00	73.98	-22.98
* 15960.00	Average	H	-	-	-82.06	14.44	0.00	39.38	53.98	-14.60
* 15960.00	Peak	H	-	-	-69.68	14.44	0.00	51.76	73.98	-22.22
* 21280.00	Average	H	-	-	-63.96	1.07	-9.54	34.57	53.98	-19.41
* 21280.00	Peak	H	-	-	-51.51	1.07	-9.54	47.02	73.98	-26.96
26600.00	Peak	H	-	-	-50.50	3.86	-9.54	50.81	68.20	-17.39

Table 7-56. Radiated Measurements MIMO

Worst Case Mode: 802.11a

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 195 of 228	

Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-80.54	12.31	0.00	38.77	53.98	-15.21
* 11000.00	Peak	H	-	-	-67.93	12.31	0.00	51.38	73.98	-22.60
16500.00	Peak	H	-	-	-69.12	14.99	0.00	52.87	68.20	-15.33
22000.00	Peak	H	-	-	-51.13	1.32	-9.54	47.65	68.20	-20.55
27500.00	Peak	H	-	-	-50.13	3.29	-9.54	50.62	68.20	-17.58

**Table 7-57. Radiated Measurements MIMO**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-80.65	12.57	0.00	38.92	53.98	-15.06
* 11200.00	Peak	H	-	-	-68.54	12.57	0.00	51.03	73.98	-22.95
16800.00	Peak	H	-	-	-69.87	15.97	0.00	53.10	68.20	-15.10
* 22400.00	Average	H	-	-	-63.64	1.80	-9.54	35.62	53.98	-18.36
* 22400.00	Peak	H	-	-	-50.59	1.80	-9.54	48.67	73.98	-25.31
28000.00	Peak	H	-	-	-51.55	3.88	-9.54	49.78	68.20	-18.42

**Table 7-58. Radiated Measurements MIMO**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 196 of 228



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-81.02	12.92	0.00	38.90	53.98	-15.08
* 11440.00	Peak	H	-	-	-68.62	12.92	0.00	51.30	73.98	-22.68
17160.00	Peak	H	-	-	-68.70	17.83	0.00	56.13	68.20	-12.07
* 22880.00	Average	H	-	-	-63.04	1.70	-9.54	36.12	53.98	-17.86
* 22880.00	Peak	H	-	-	-50.46	1.70	-9.54	48.70	73.98	-25.28
28600.00	Peak	H	-	-	-50.92	3.98	-9.54	50.51	68.20	-17.69

**Table 7-59. Radiated Measurements MIMO**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.29	13.85	0.00	39.56	53.98	-14.42
* 11490.00	Peak	H	-	-	-69.23	13.85	0.00	51.62	73.98	-22.36
17235.00	Peak	H	-	-	-69.03	18.00	0.00	55.97	68.20	-12.23
* 22980.00	Average	H	-	-	-63.40	1.59	-9.54	35.65	53.98	-18.33
* 22980.00	Peak	H	-	-	-51.50	1.59	-9.54	47.55	73.98	-26.43
28725.00	Peak	H	-	-	-50.85	3.89	-9.54	50.50	69.20	-18.70

**Table 7-60. Radiated Measurements MIMO**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 197 of 228	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-81.65	12.96	0.00	38.31	53.98	-15.67
* 11570.00	Peak	H	-	-	-69.91	12.96	0.00	50.05	73.98	-23.93
17355.00	Peak	H	-	-	-69.94	19.73	0.00	56.79	68.20	-11.41
23140.00	Peak	H	-	-	-51.55	1.64	-9.54	47.55	68.20	-20.65
28925.00	Peak	H	-	-	-51.05	3.45	-9.54	49.86	68.20	-18.34

**Table 7-61. Radiated Measurements MIMO**

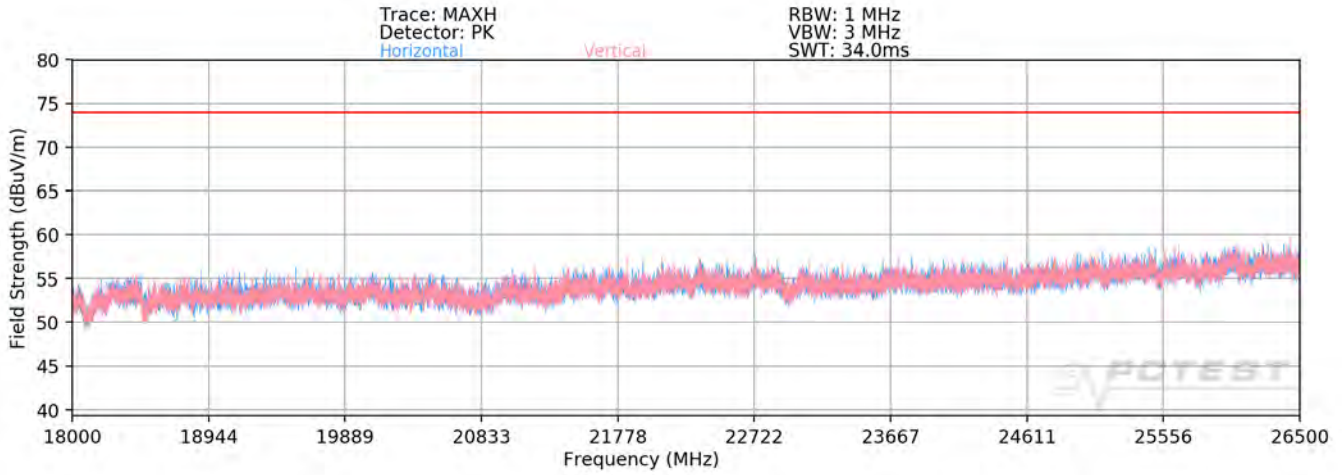
Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-81.39	13.55	0.00	39.16	53.98	-14.82
* 11650.00	Peak	H	-	-	-69.56	13.55	0.00	50.99	73.98	-22.99
17475.00	Peak	H	-	-	-69.52	18.86	0.00	56.34	68.20	-11.86
23300.00	Peak	H	-	-	-51.82	1.66	-9.54	47.30	68.20	-20.90
29125.00	Peak	H	-	-	-51.30	3.67	-9.54	49.83	68.20	-18.37

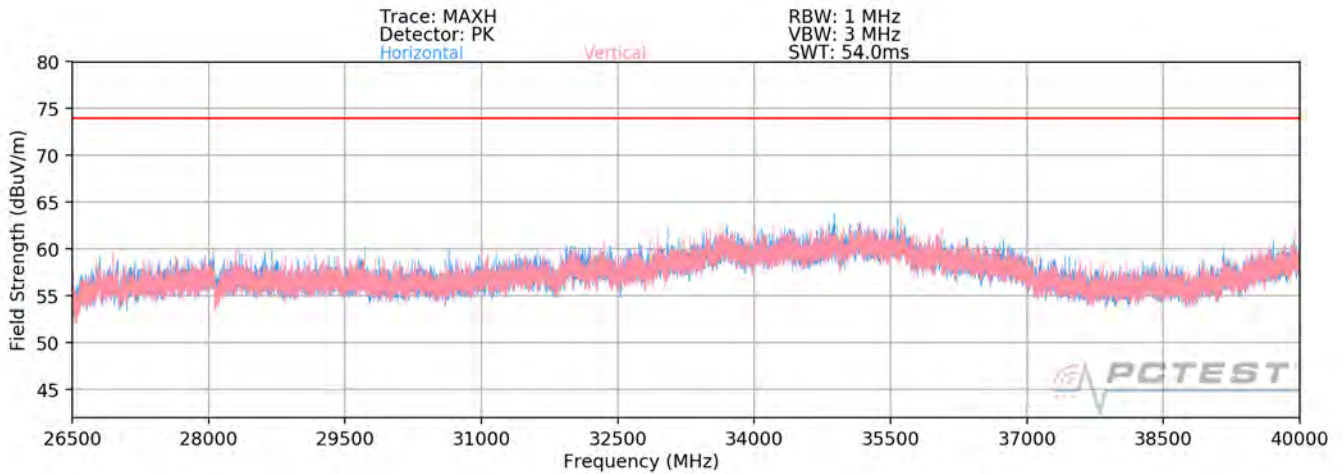
**Table 7-62. Radiated Measurements MIMO**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset	Page 198 of 228	

## MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-281. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a)**

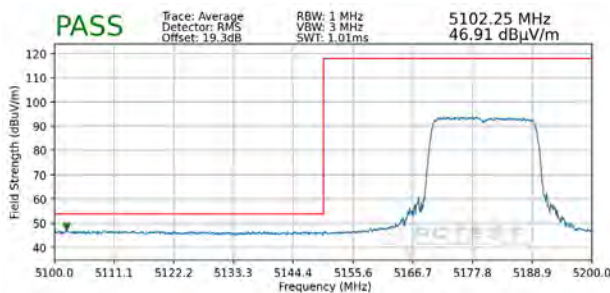


**Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)**

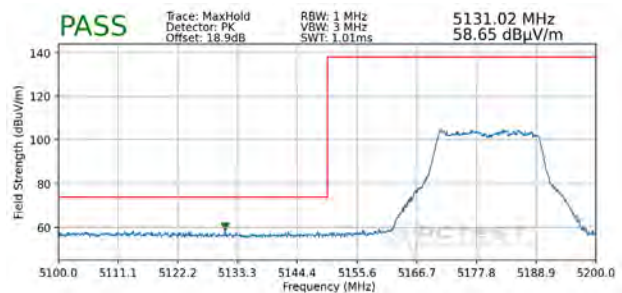
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 199 of 228

### 7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

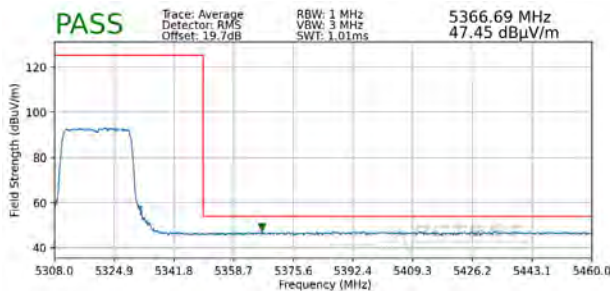


Plot 7-283. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

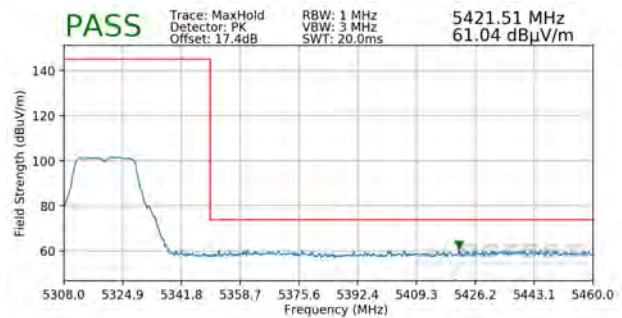


Plot 7-284. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



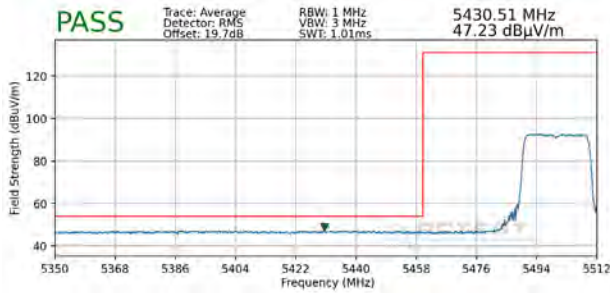
Plot 7-285. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



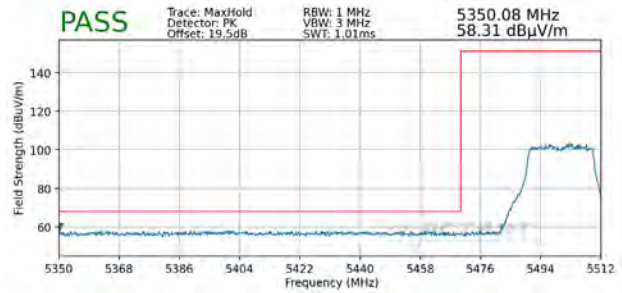
Plot 7-286. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 200 of 228

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

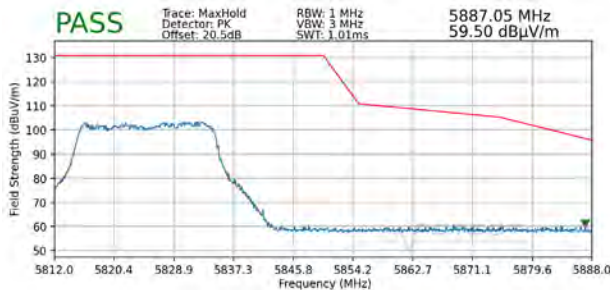


**Plot 7-287. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-288. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

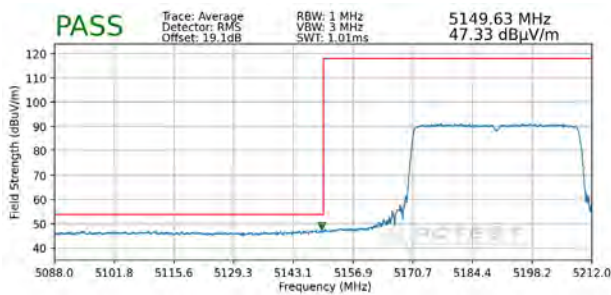


**Plot 7-289. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

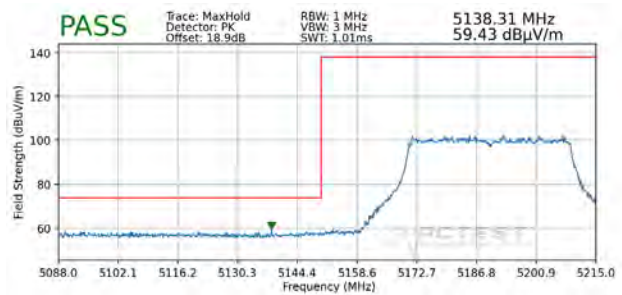
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 201 of 228

### 7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

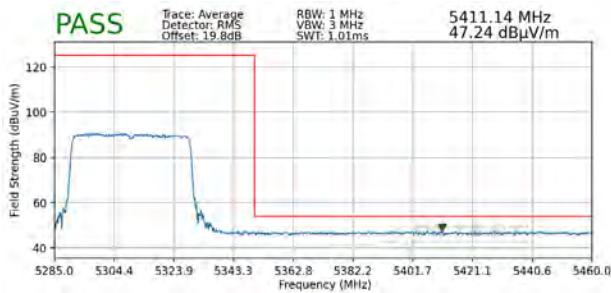


**Plot 7-290. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)**

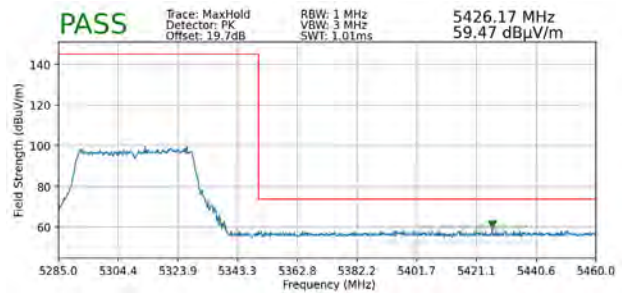


**Plot 7-291. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)**

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



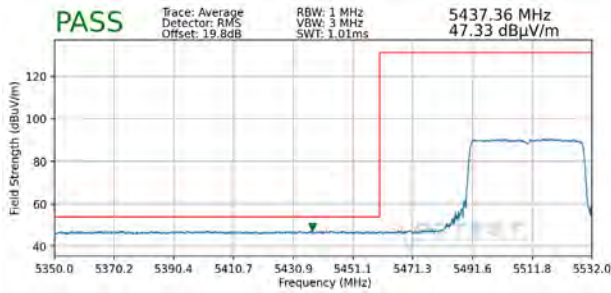
**Plot 7-292. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)**



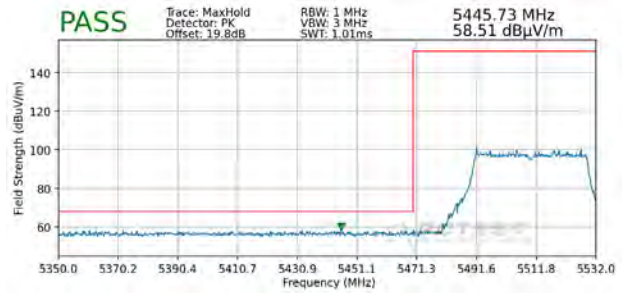
**Plot 7-293. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 202 of 228

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

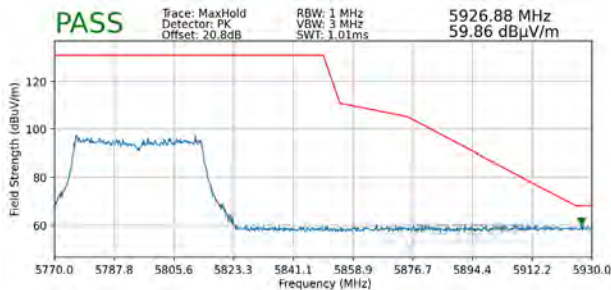


**Plot 7-294. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-295. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

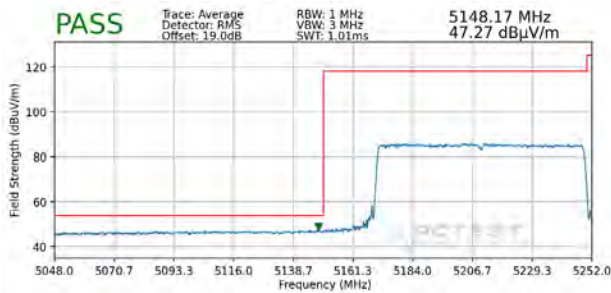


**Plot 7-296. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

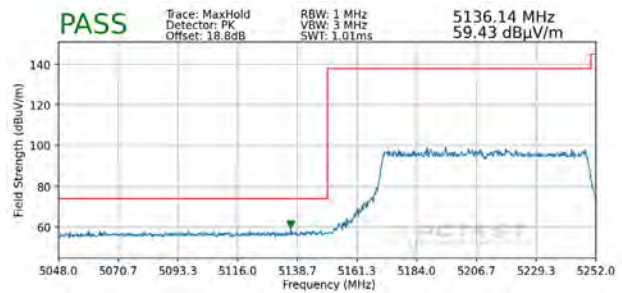
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 203 of 228

### 7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

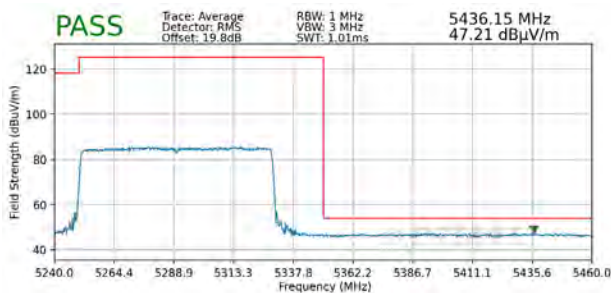


**Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)**

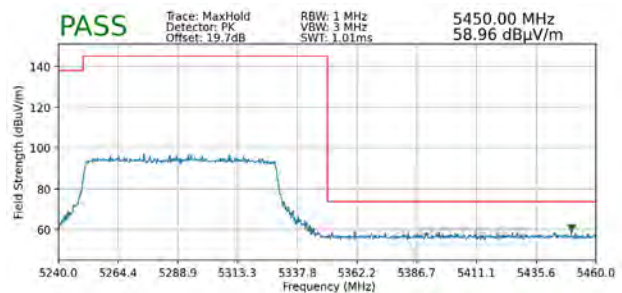


**Plot 7-298. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)**

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



**Plot 7-299. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)**

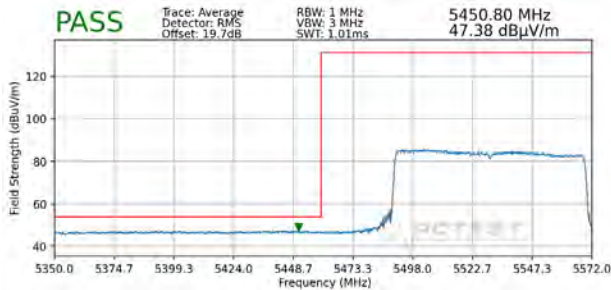


**Plot 7-300. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)**

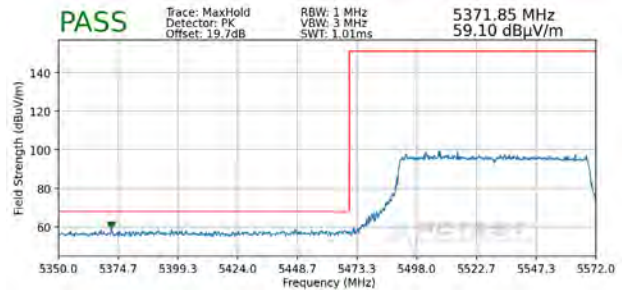
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 204 of 228



Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

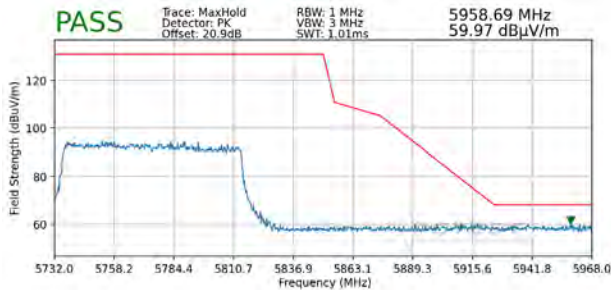


**Plot 7-301. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-302. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155

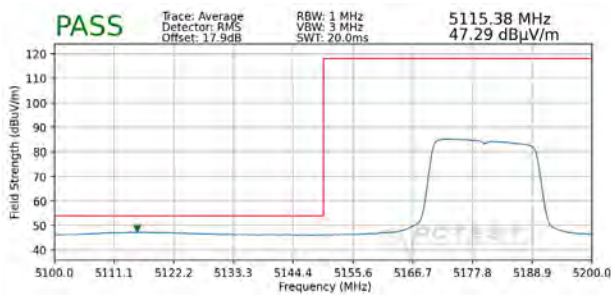


**Plot 7-303. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

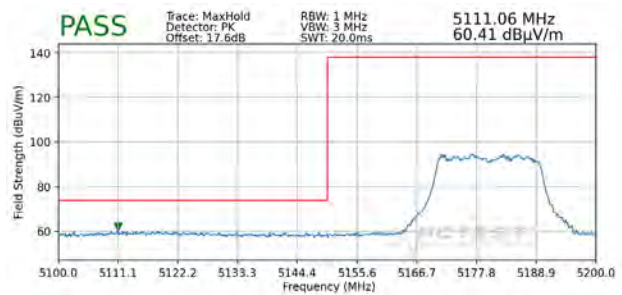
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 205 of 228

### 7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

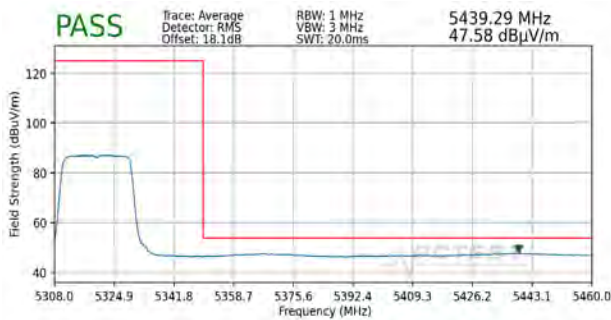


**Plot 7-304. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

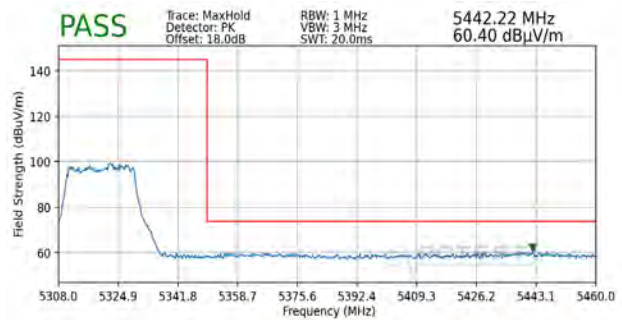


**Plot 7-305. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



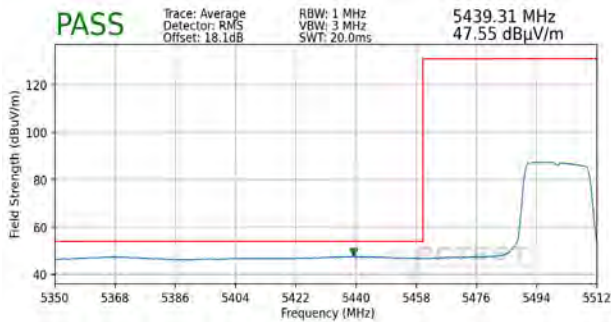
**Plot 7-306. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



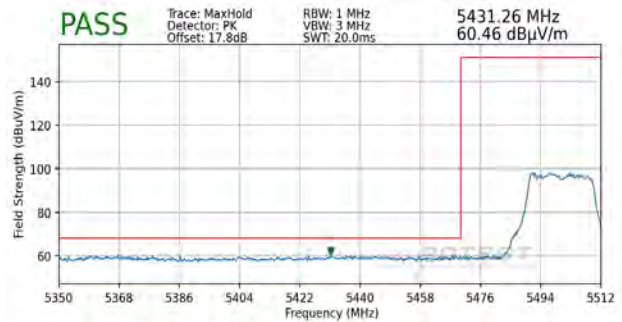
**Plot 7-307. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 206 of 228

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

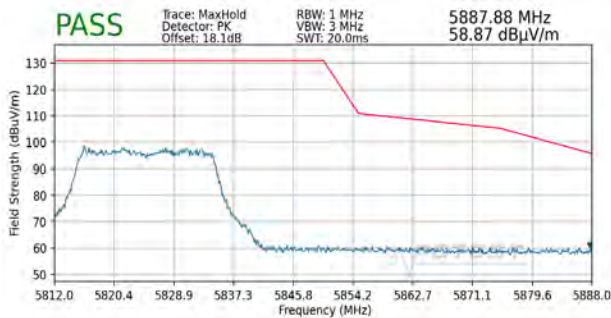


**Plot 7-308. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-309. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

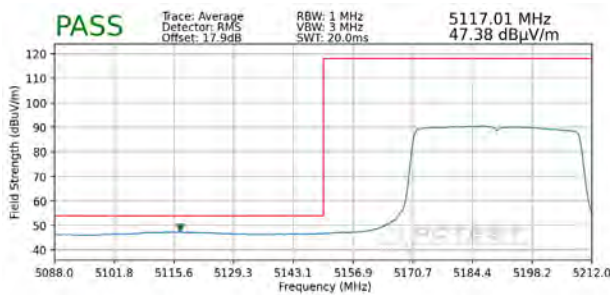


**Plot 7-310. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

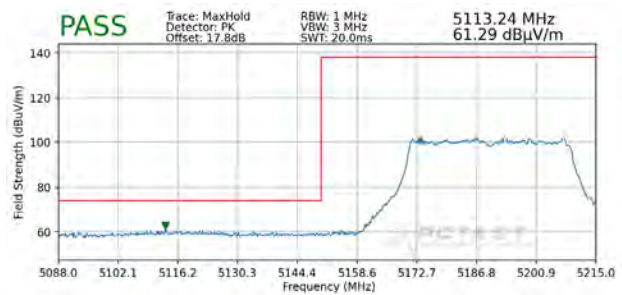
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 207 of 228

### 7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5190MHz  
 Channel: 38

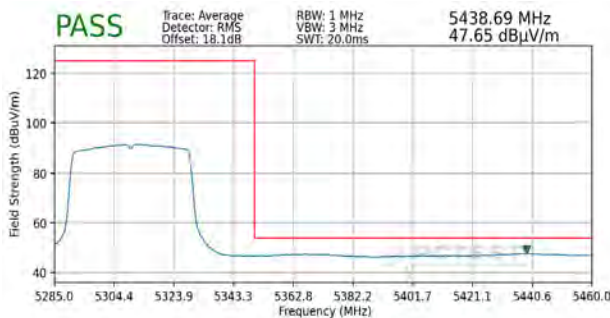


**Plot 7-311. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

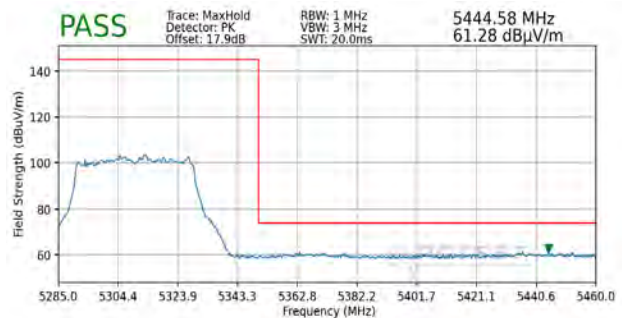


**Plot 7-312. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5310MHz  
 Channel: 62



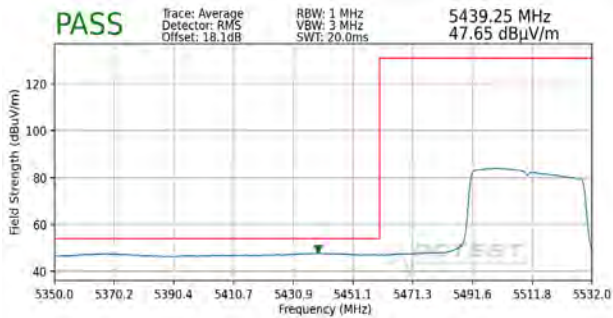
**Plot 7-313. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



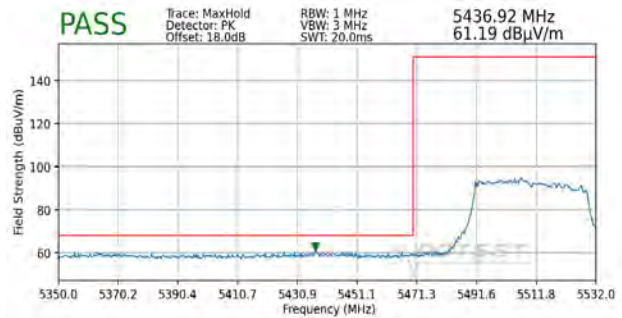
**Plot 7-314. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 208 of 228

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

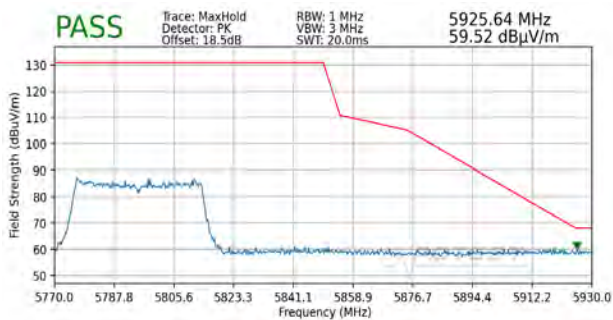


Plot 7-315. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-316. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

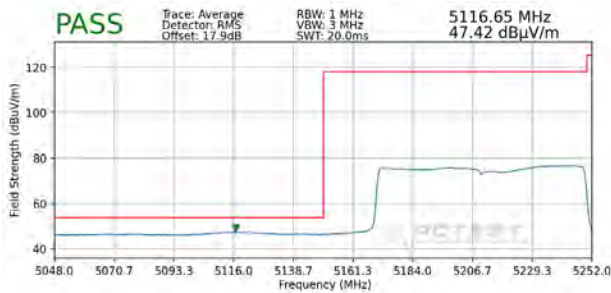


Plot 7-317. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

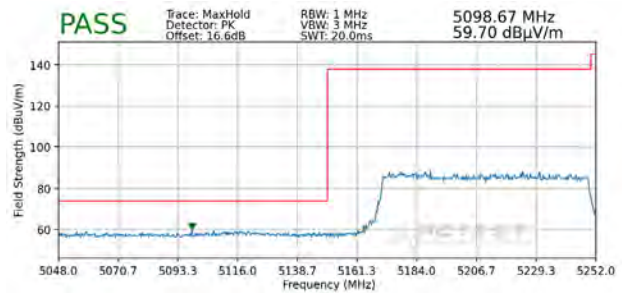
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 209 of 228

### 7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

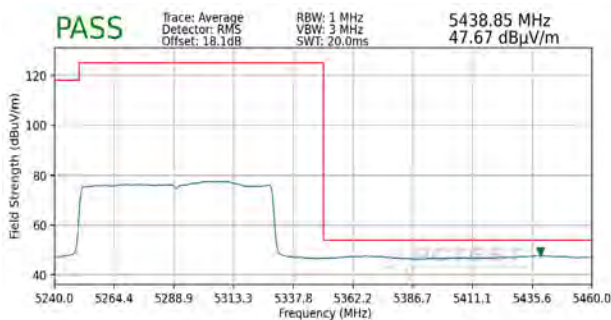


Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

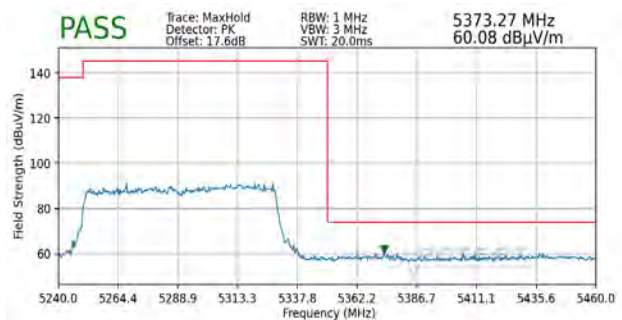


Plot 7-319. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



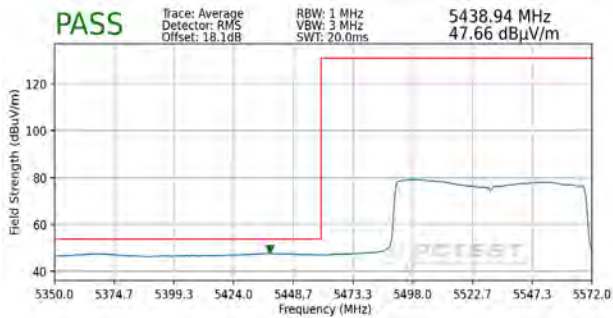
Plot 7-320. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



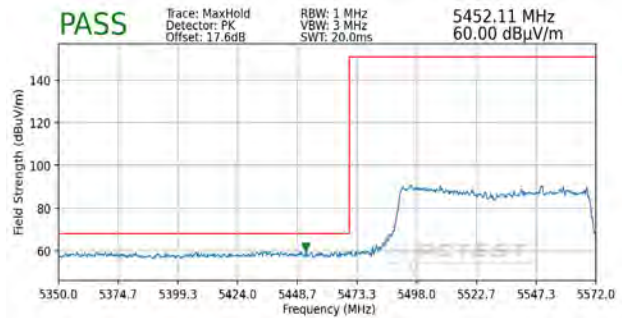
Plot 7-321. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 210 of 228

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

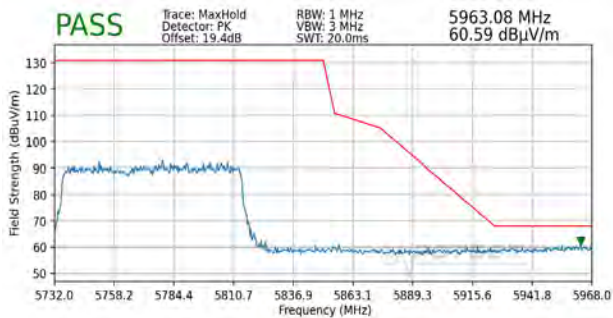


**Plot 7-322. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-323. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155

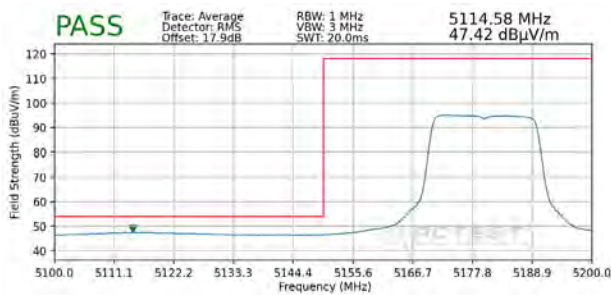


**Plot 7-324. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

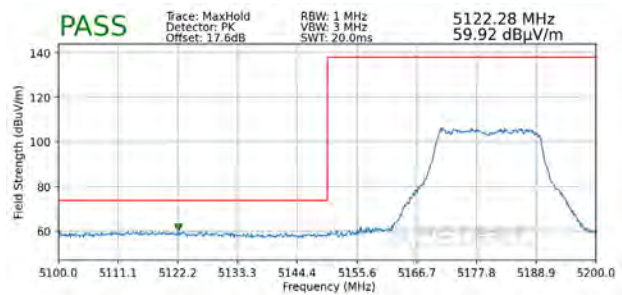
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 211 of 228

### 7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

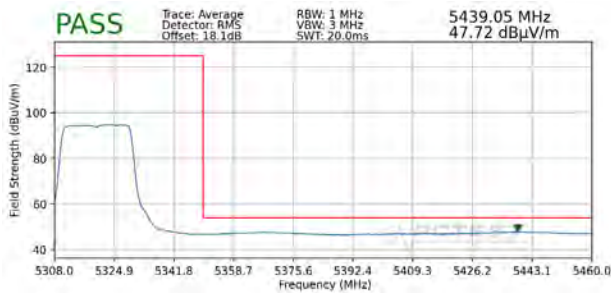


Plot 7-325. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

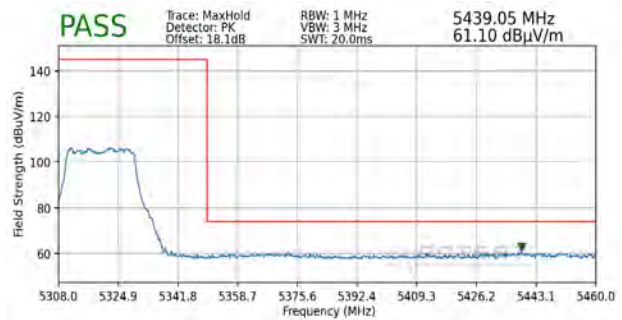


Plot 7-326. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-327. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)

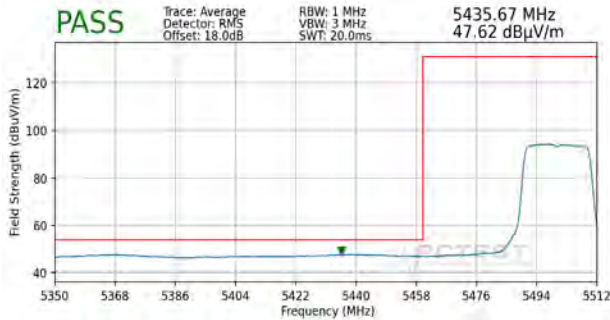


Plot 7-328. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

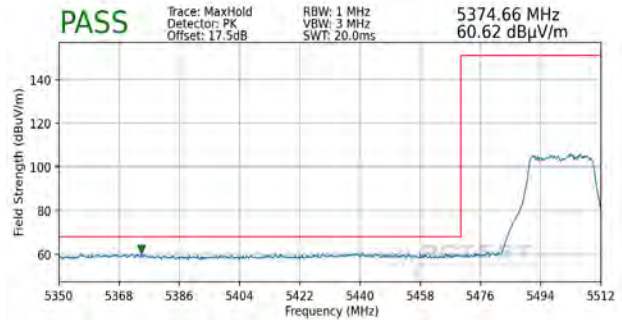
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 212 of 228



Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

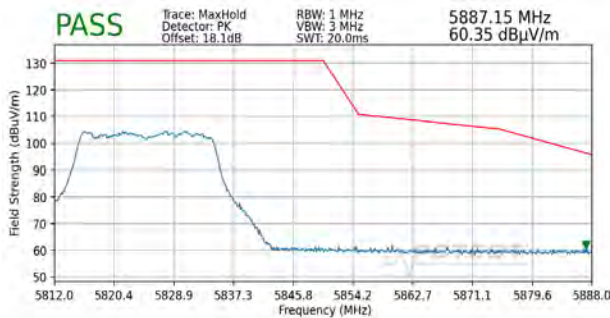


**Plot 7-329. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-330. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165

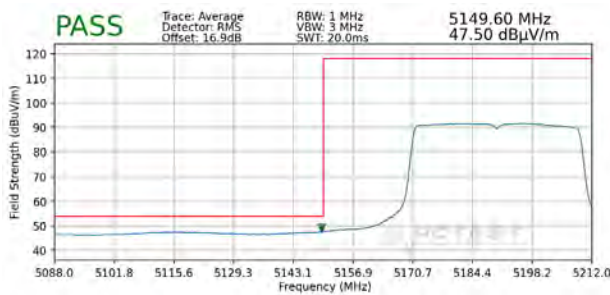


**Plot 7-331. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

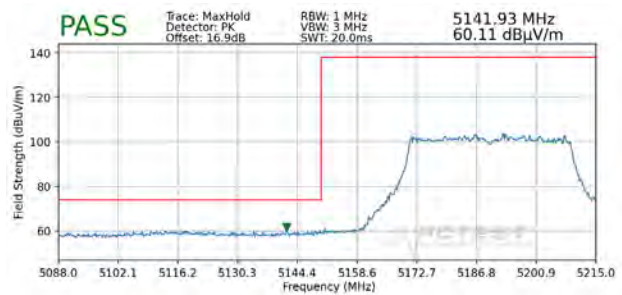
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 213 of 228

### 7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

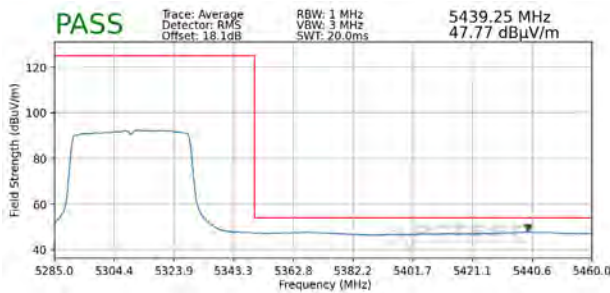


**Plot 7-332. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

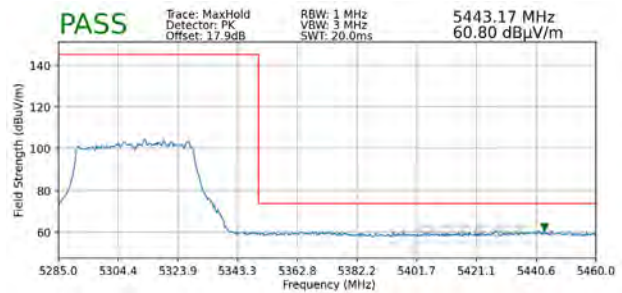


**Plot 7-333. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



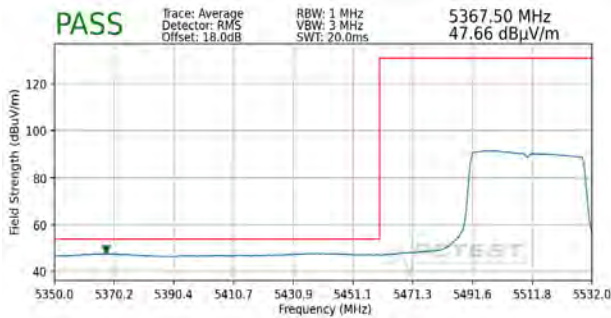
**Plot 7-334. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



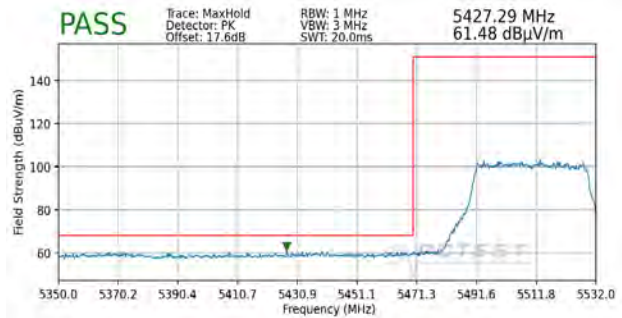
**Plot 7-335. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 214 of 228

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

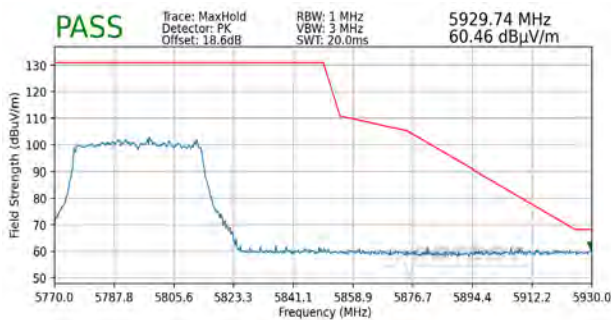


**Plot 7-336. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-337. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

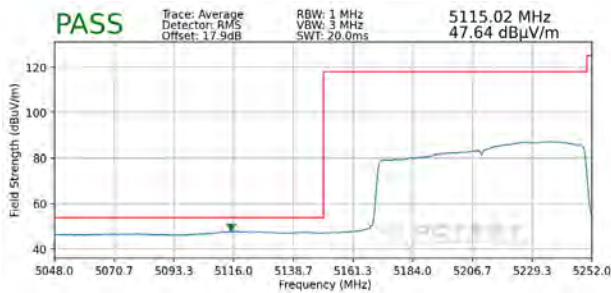


**Plot 7-338. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

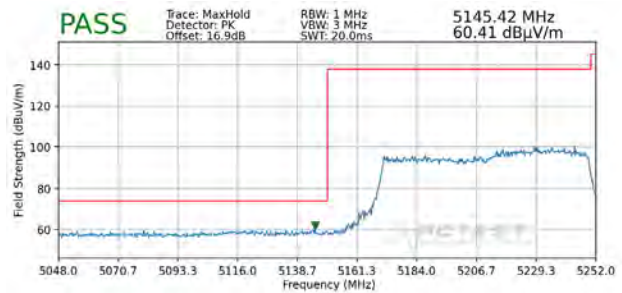
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 215 of 228

### 7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42

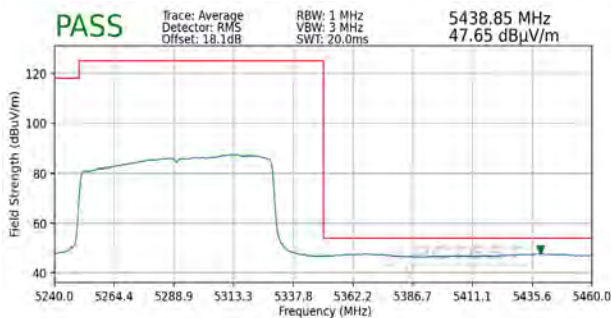


**Plot 7-339. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

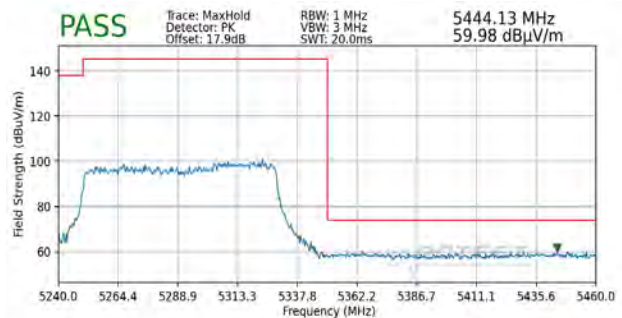


**Plot 7-340. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



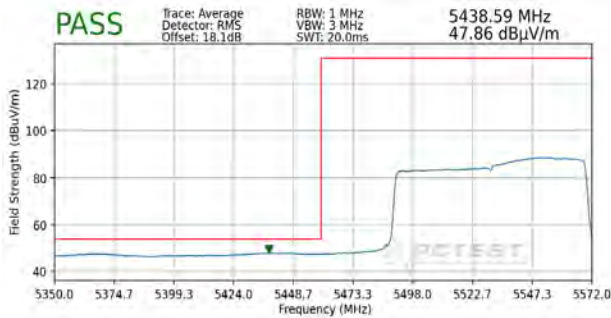
**Plot 7-341. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



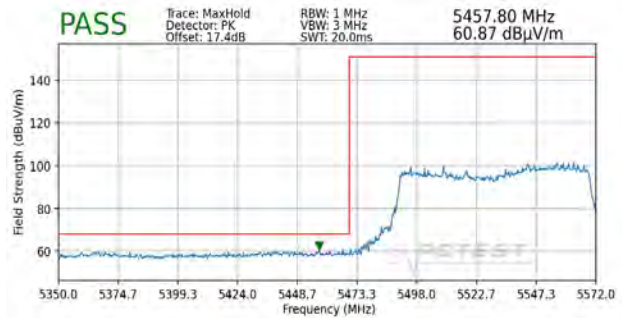
**Plot 7-342. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 216 of 228

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

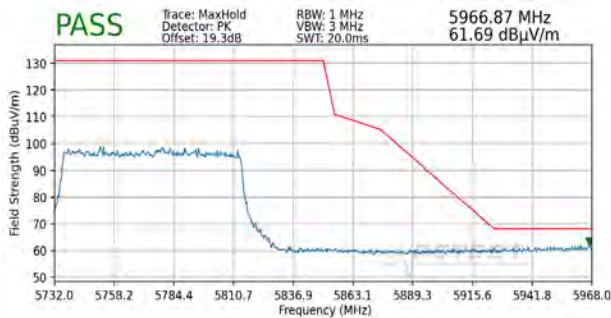


**Plot 7-343. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-344. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155



**Plot 7-345. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
Test Report S/N: 1M2007070106-06-R2.PY7	Test Dates: 7/29 - 9/18-2020	EUT Type: Portable Handset		Page 217 of 228

## 7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

**All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-63 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu$ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-63. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

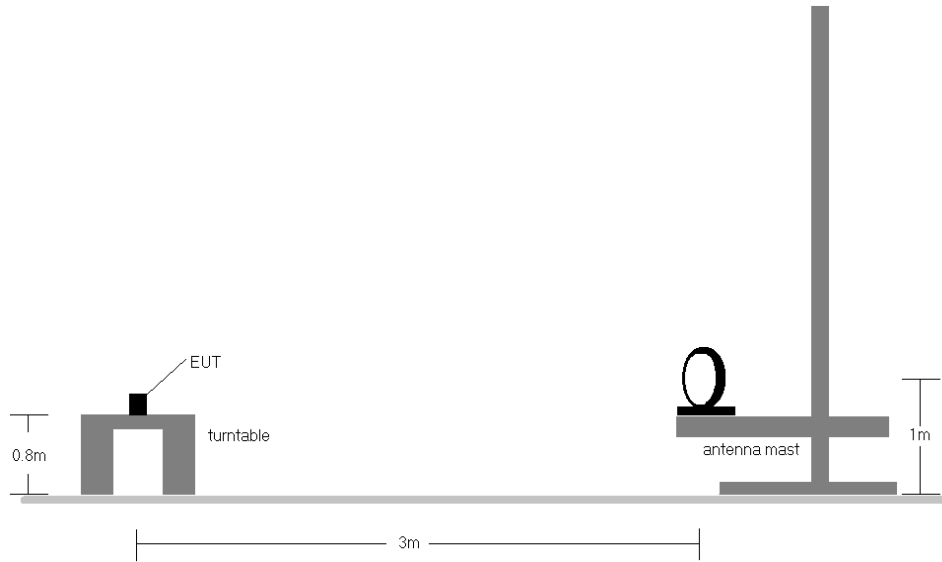
#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

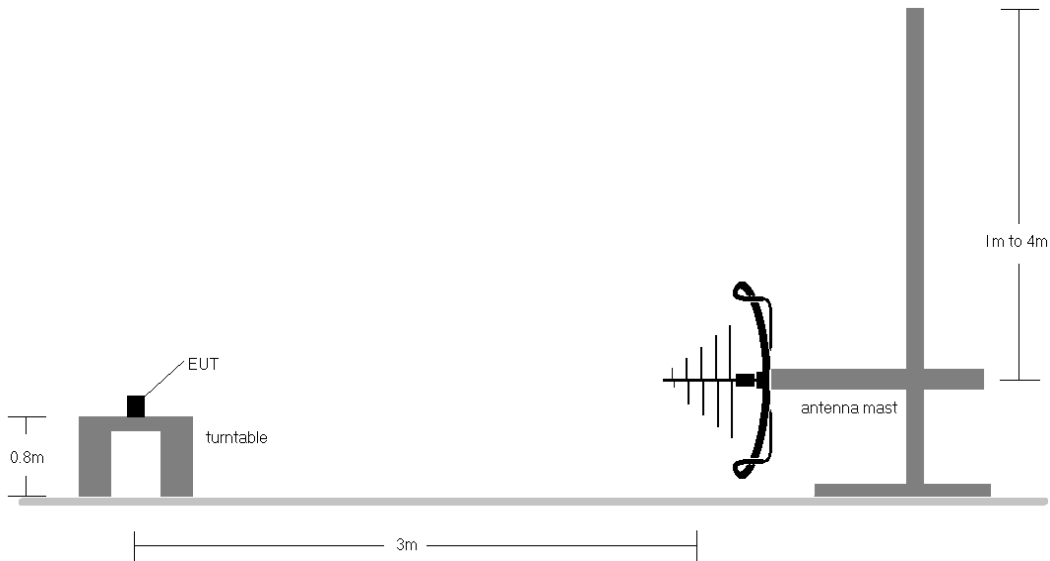
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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### Test Setup

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



**Figure 7-6. Radiated Test Setup < 30MHz**



**Figure 7-7. Radiated Test Setup < 1GHz**

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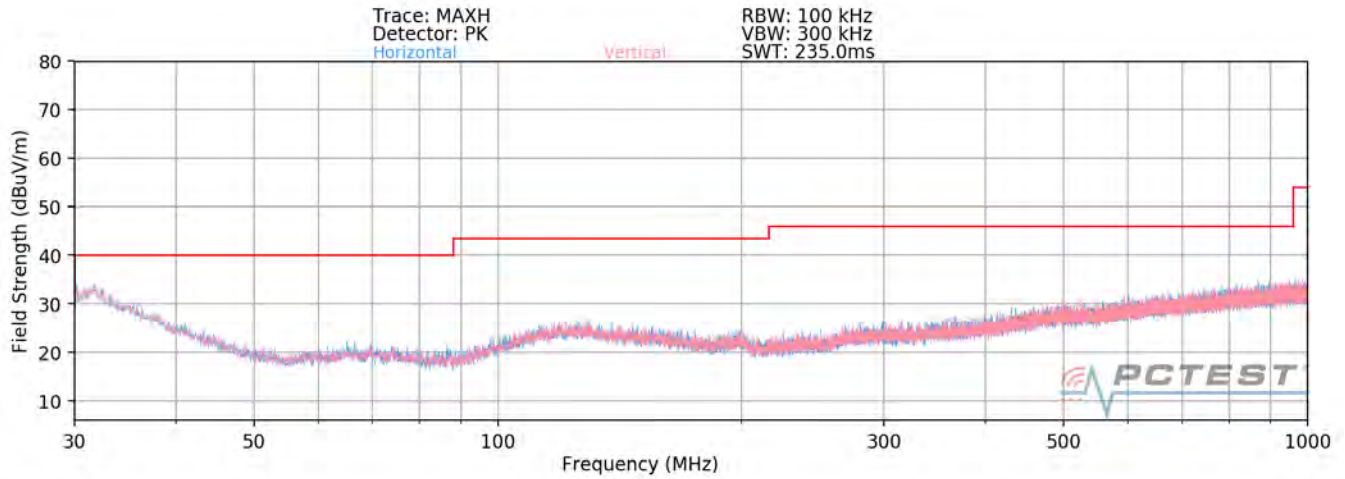
**Test Notes**

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-63.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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**Radiated Spurious Emissions Measurements (Below 1GHz)**  
**§15.209; RSS-Gen [8.9]**



**Plot 7-346. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a – U3 Ch. 157)**

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## 7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).**

Frequency of emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-64. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

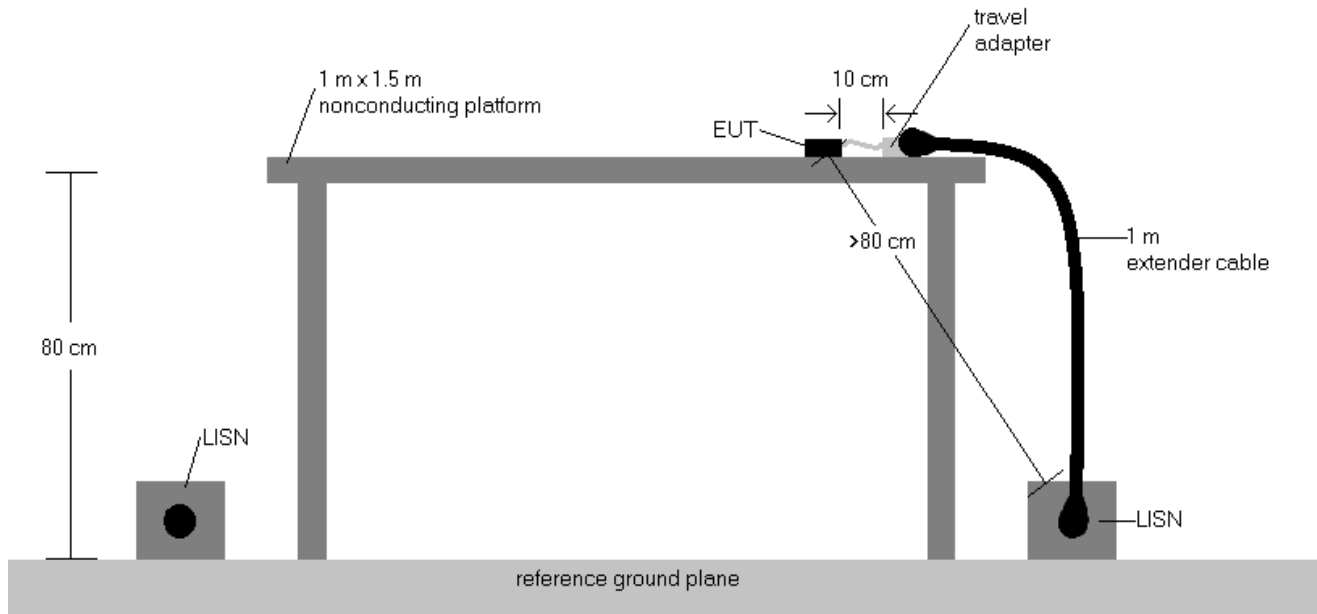
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

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

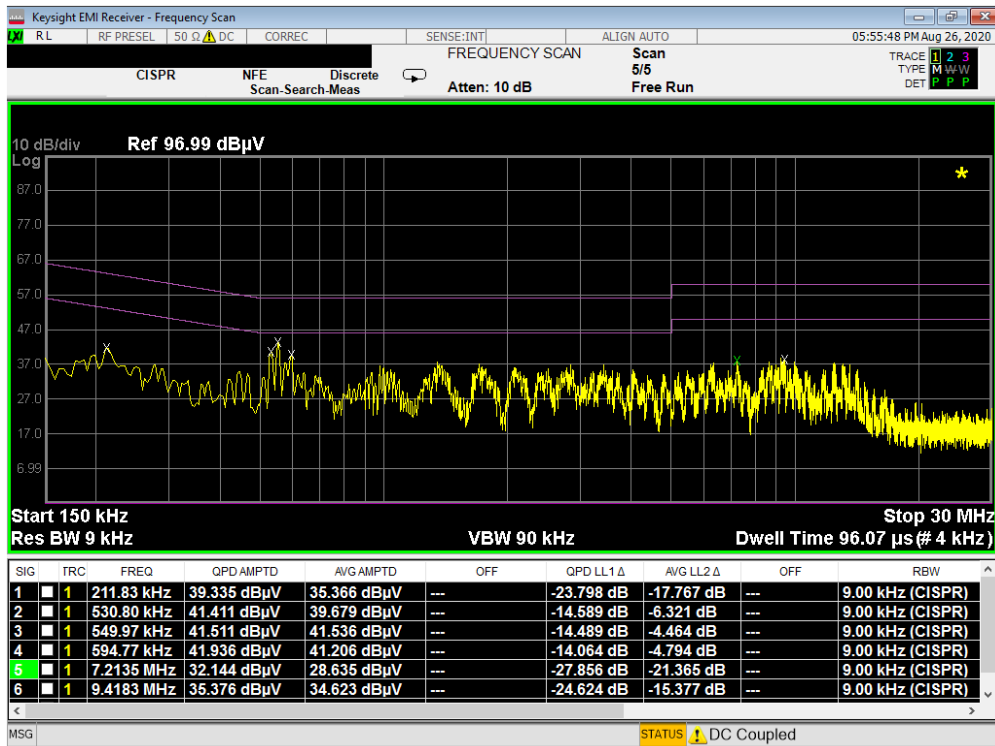


**Figure 7-8. Test Instrument & Measurement Setup**

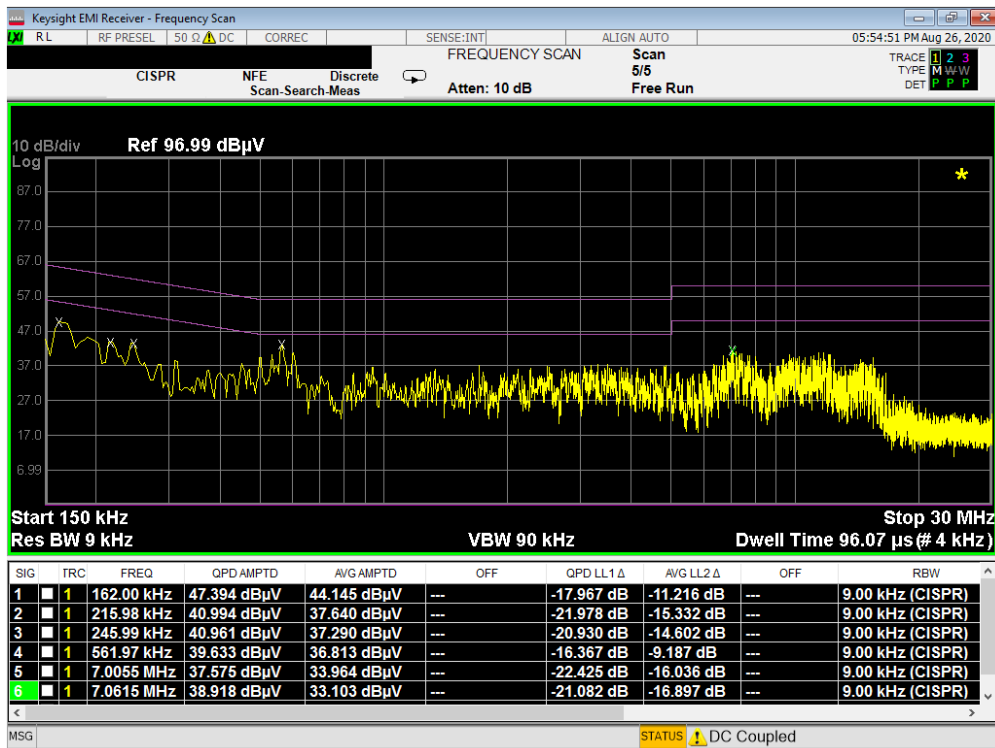
## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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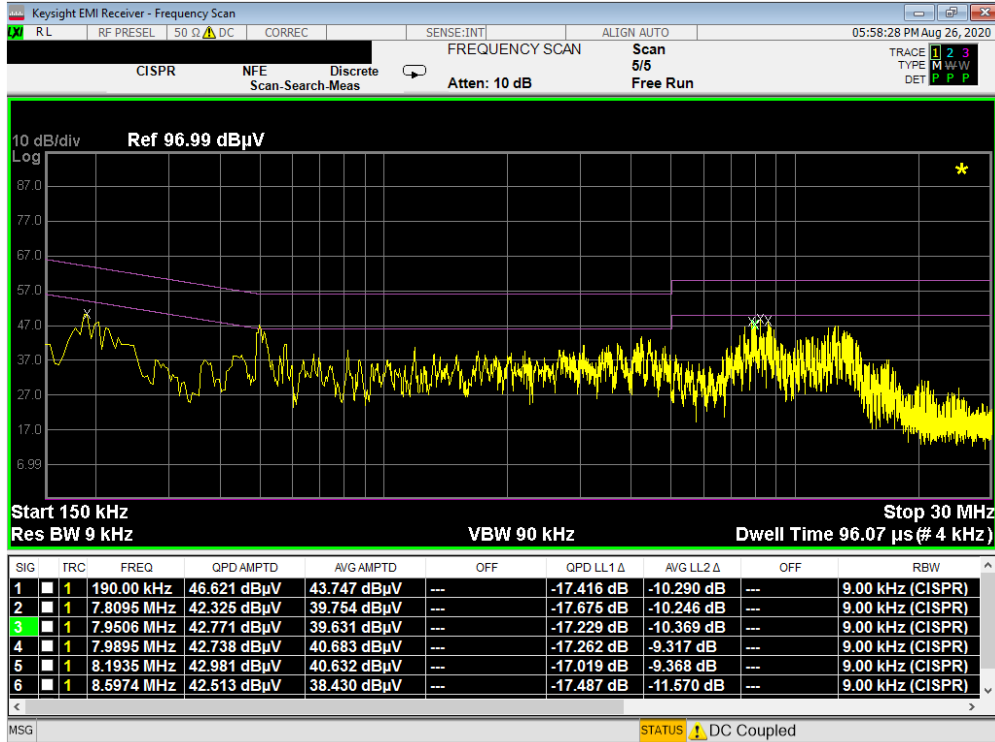


Plot 7-347. Line Conducted Plot with 802.11a UNII Band 1 (L1)

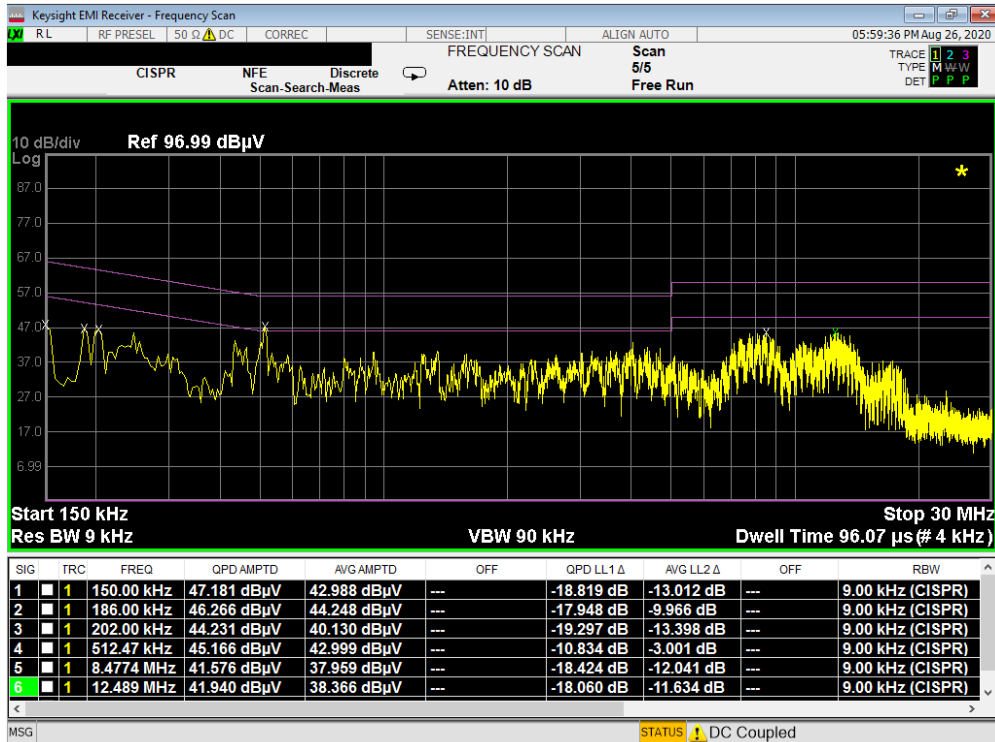


Plot 7-348. Line Conducted Plot with 802.11a UNII Band 1 (N)

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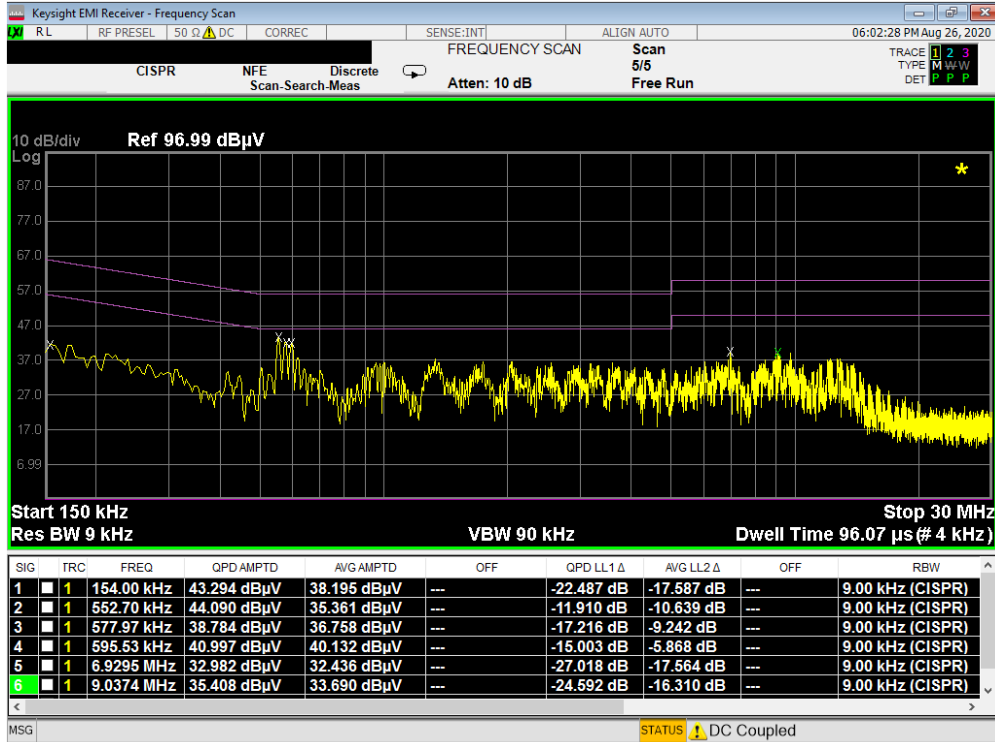


Plot 7-349. Line Conducted Plot with 802.11a UNII Band 2A (L1)

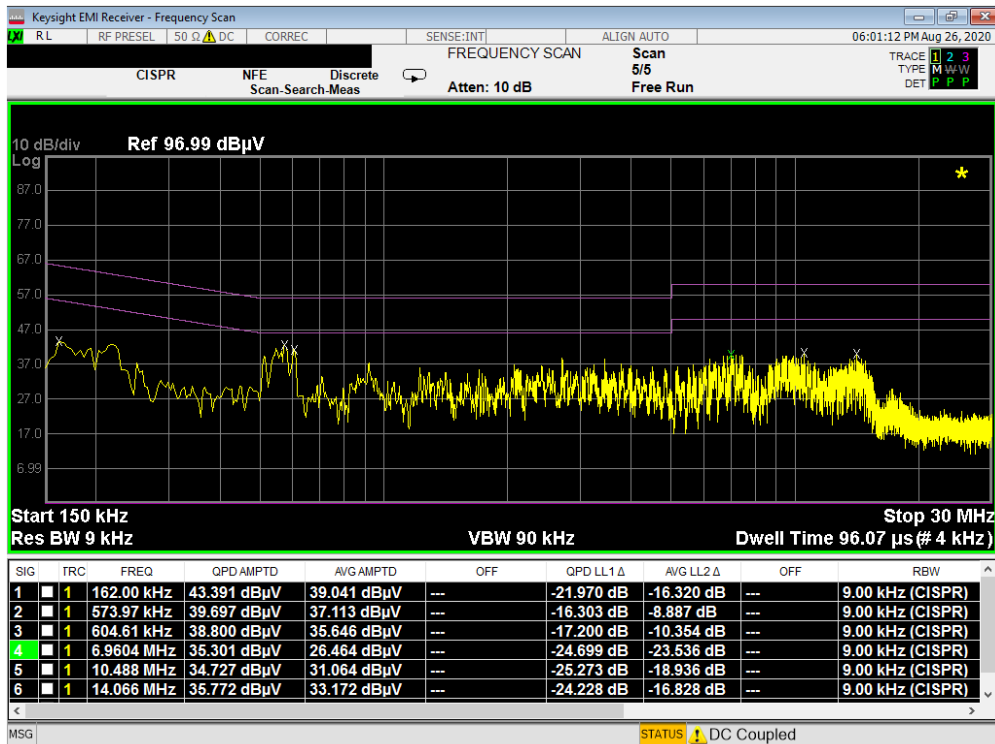


Plot 7-350. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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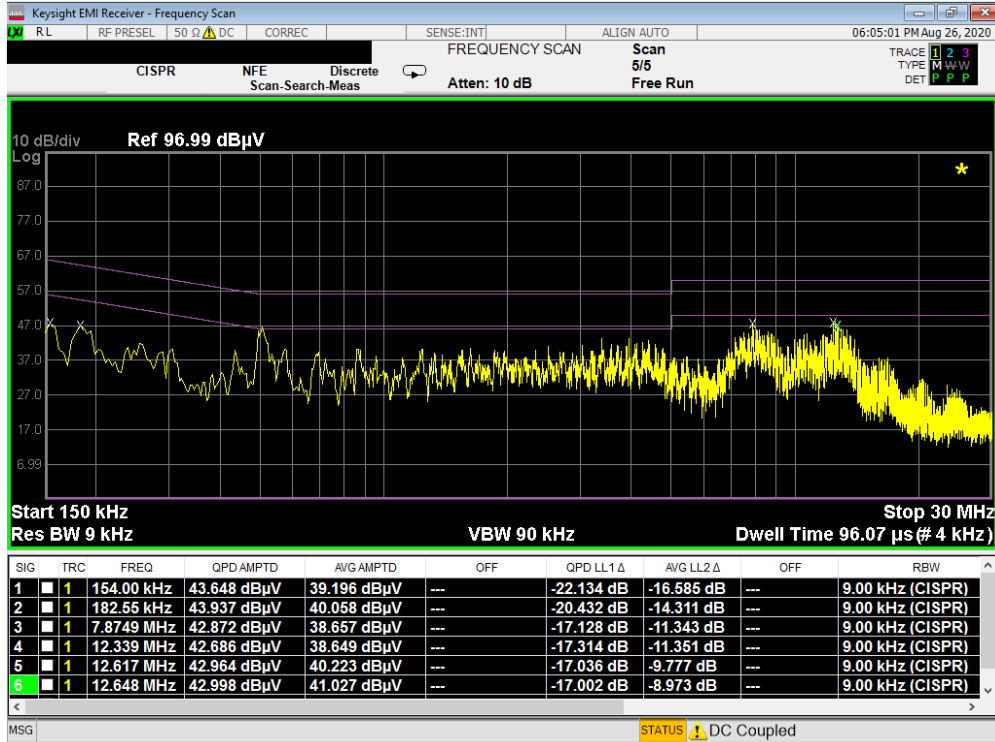


Plot 7-351. Line Conducted Plot with 802.11a UNII Band 2C (L1)

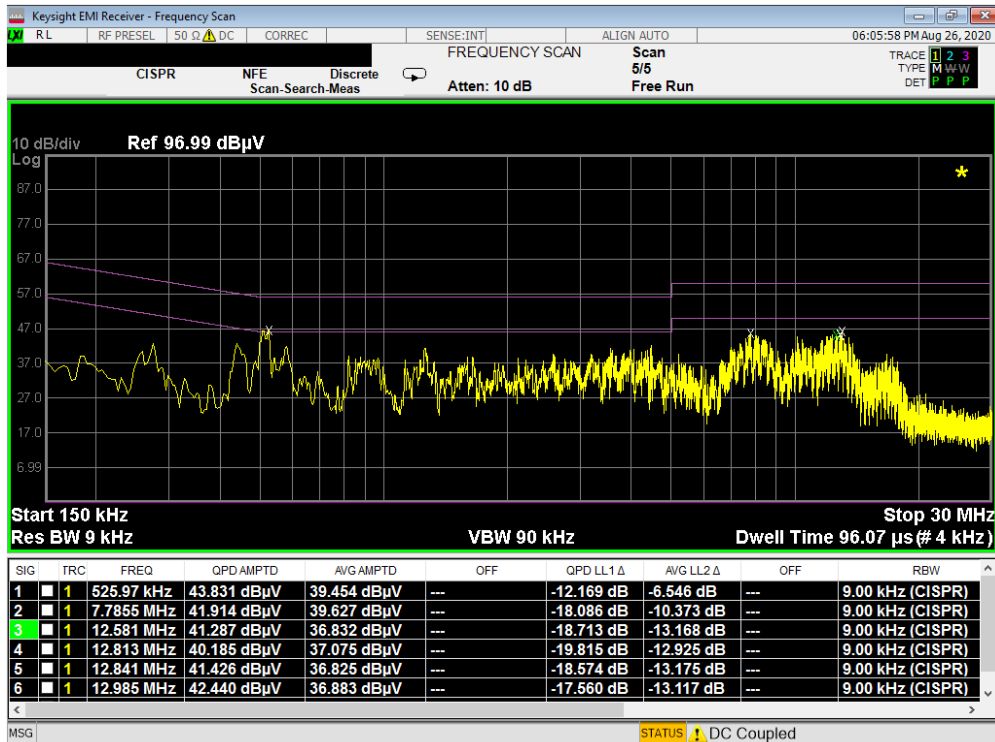


Plot 7-352. Line Conducted Plot with 802.11a UNII Band 2C (N)

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Plot 7-353. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-354. Line Conducted Plot with 802.11a UNII Band 3 (N)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Quality Manager
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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **SONY Portable Handset FCC ID: PY7-57441Y** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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