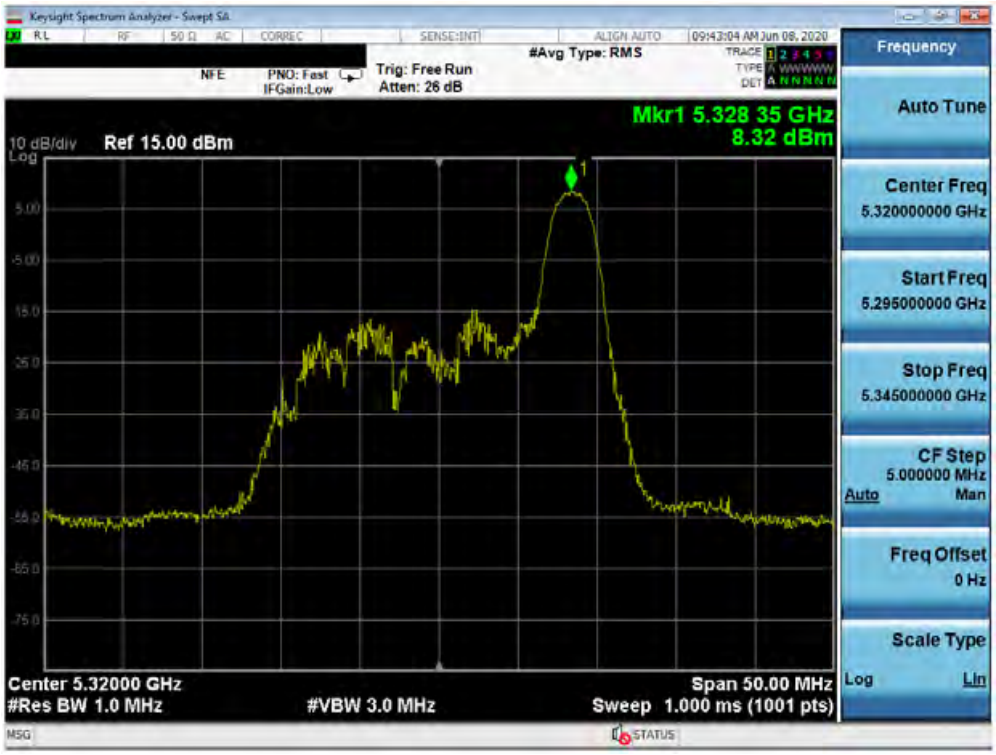
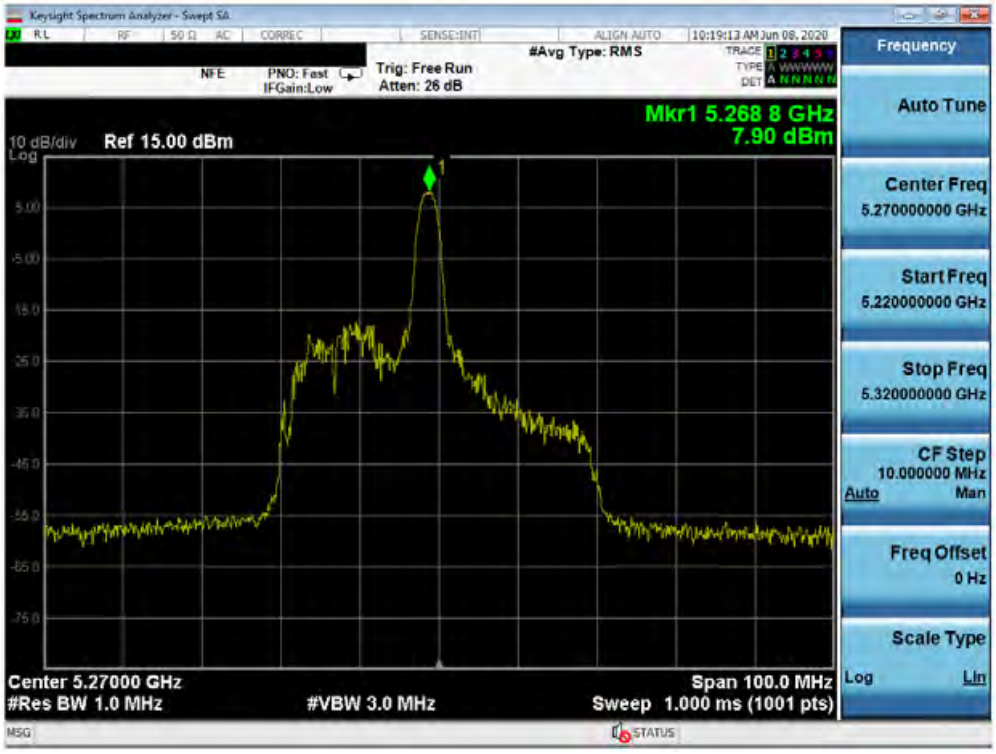
Plot 7-169. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

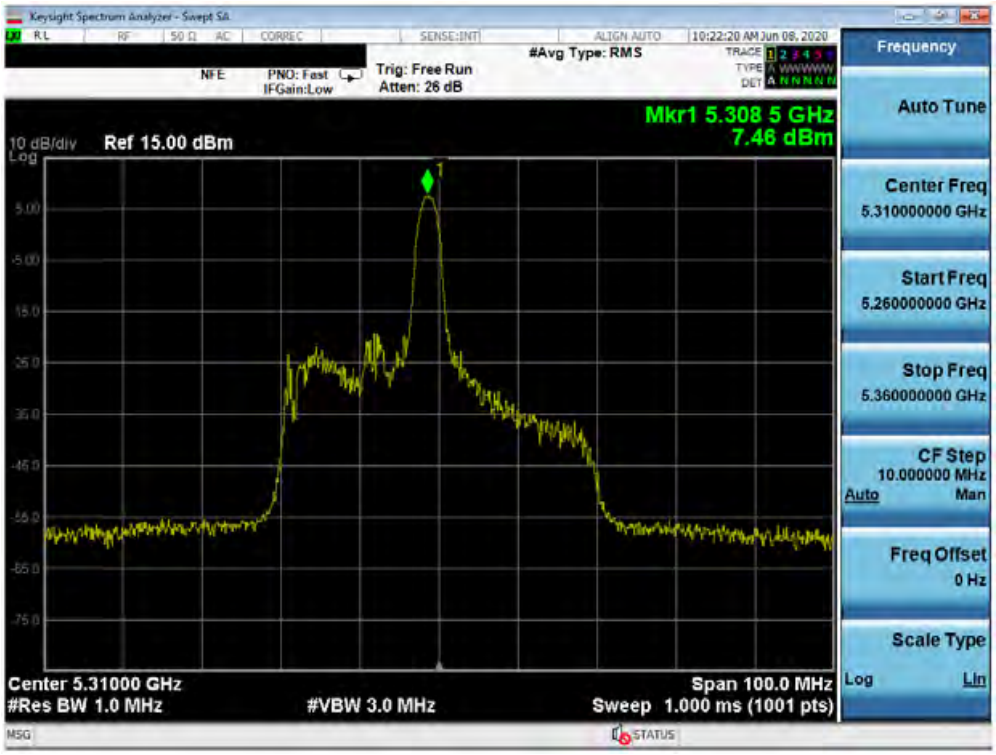
Plot 7-170. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)



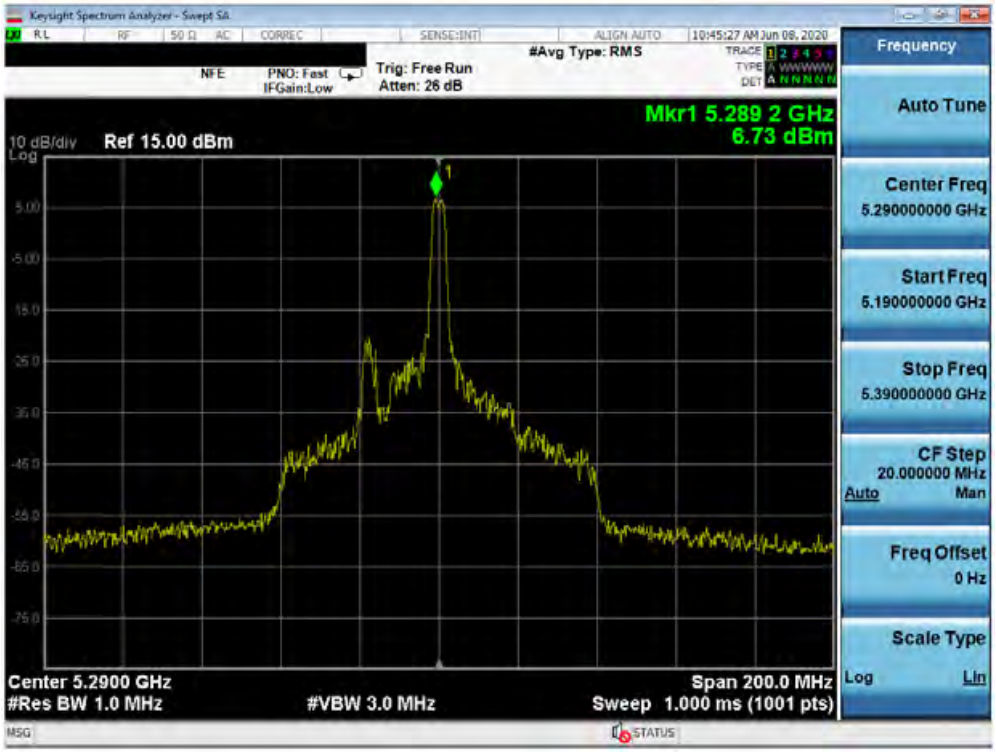
Plot 7-171. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



Plot 7-172. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)



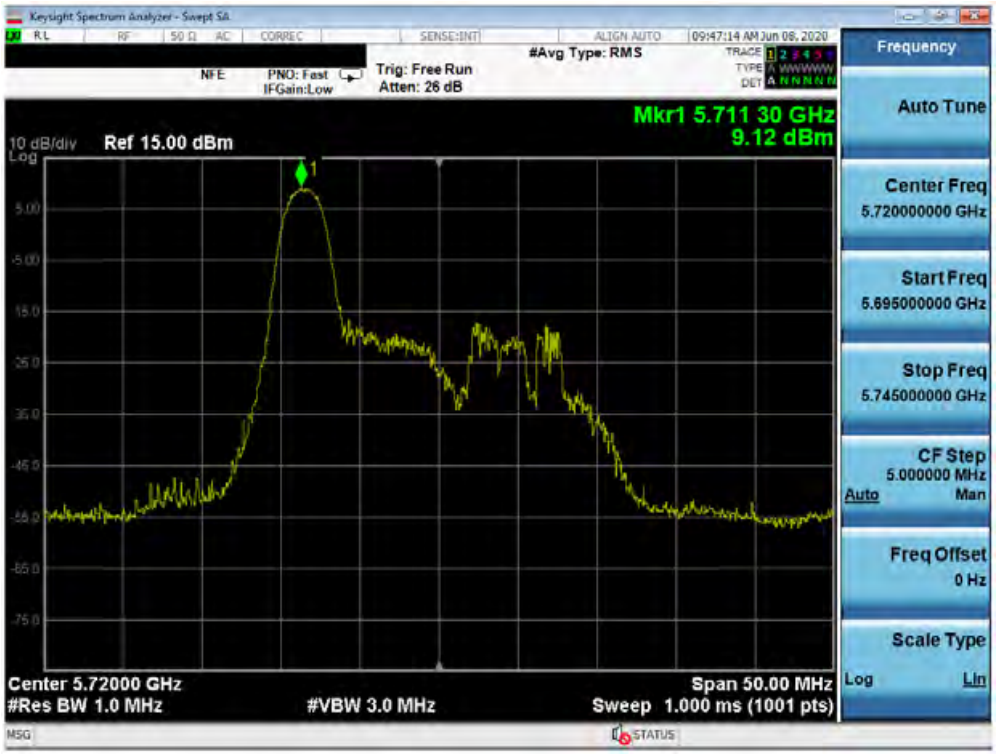
Plot 7-173. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



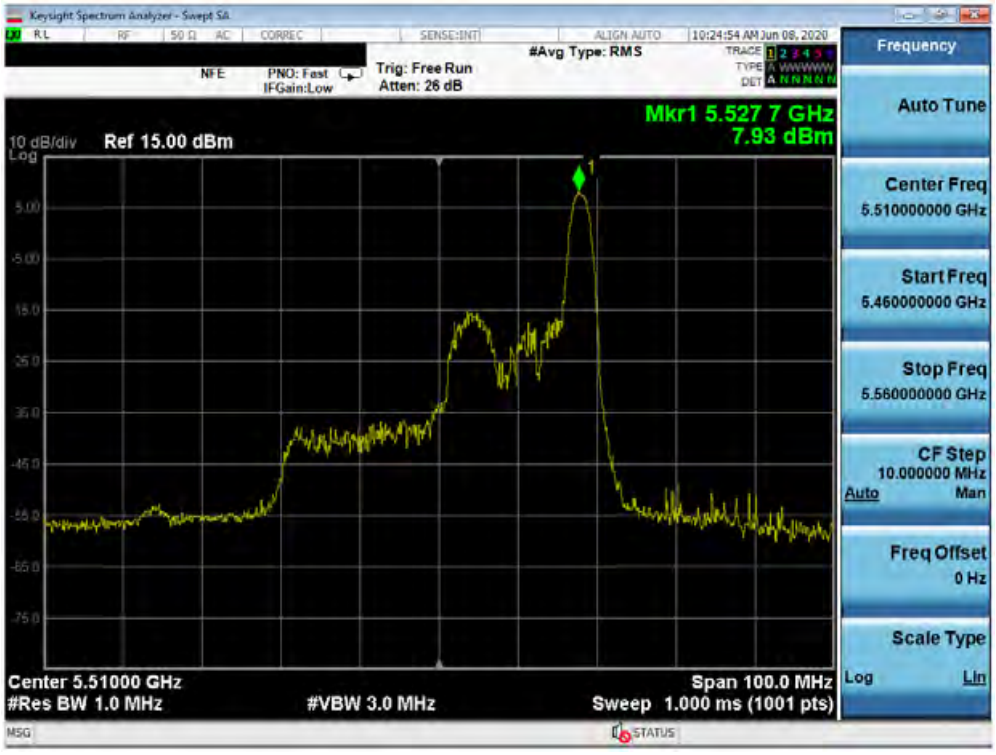
Plot 7-174. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

Plot 7-175. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

Plot 7-176. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

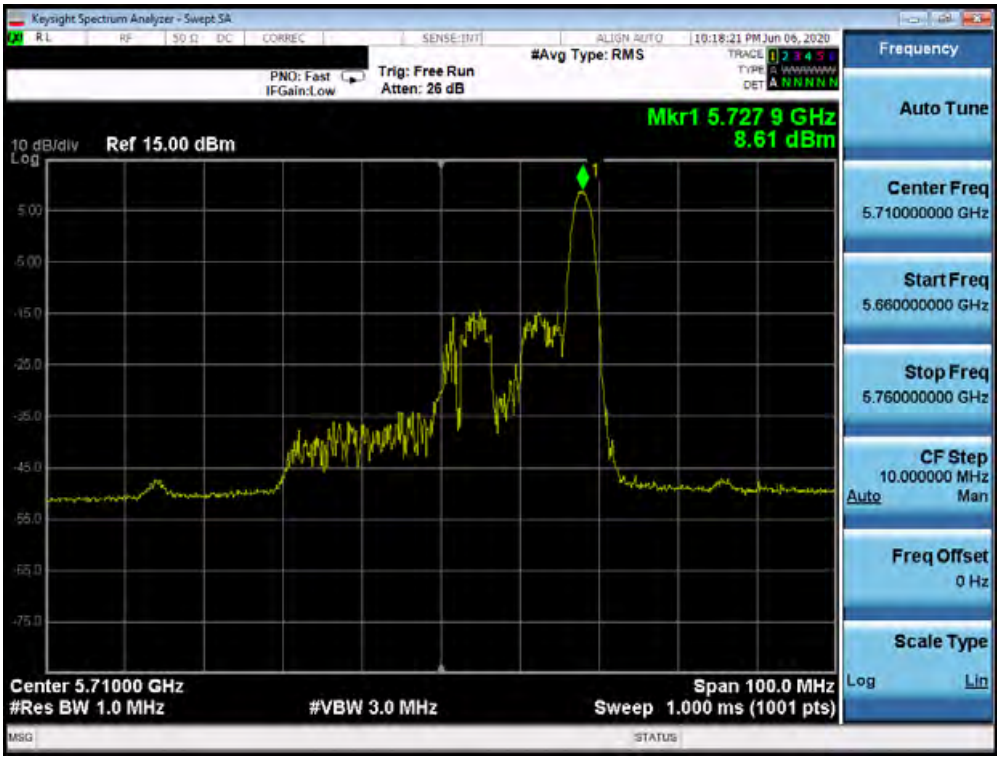


Plot 7-177. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

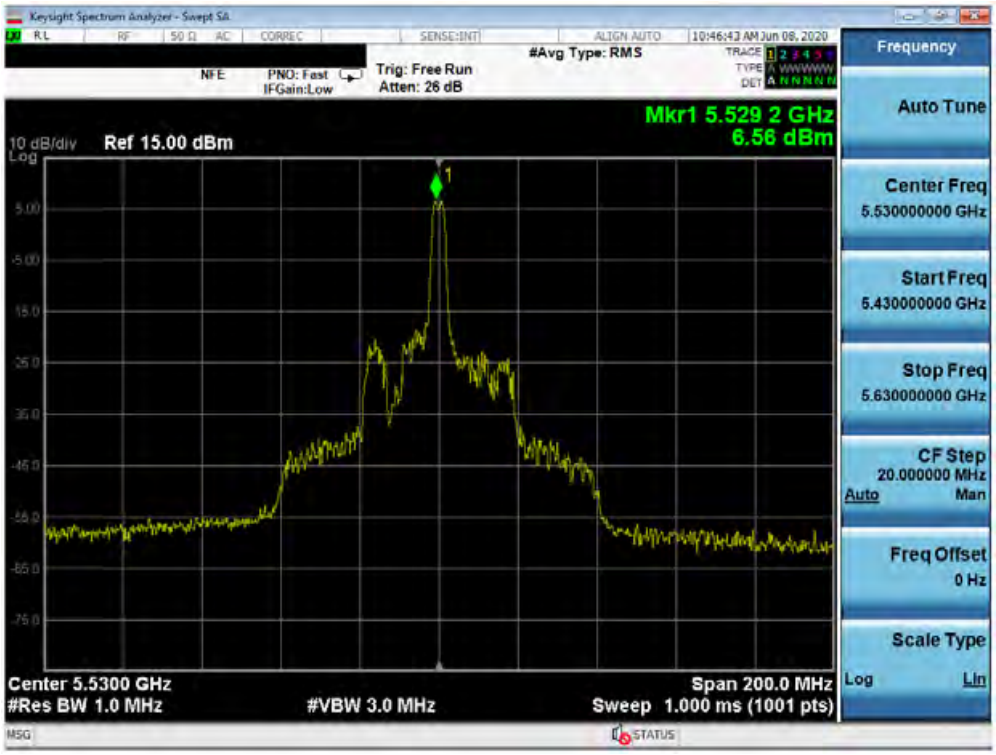


Plot 7-178. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

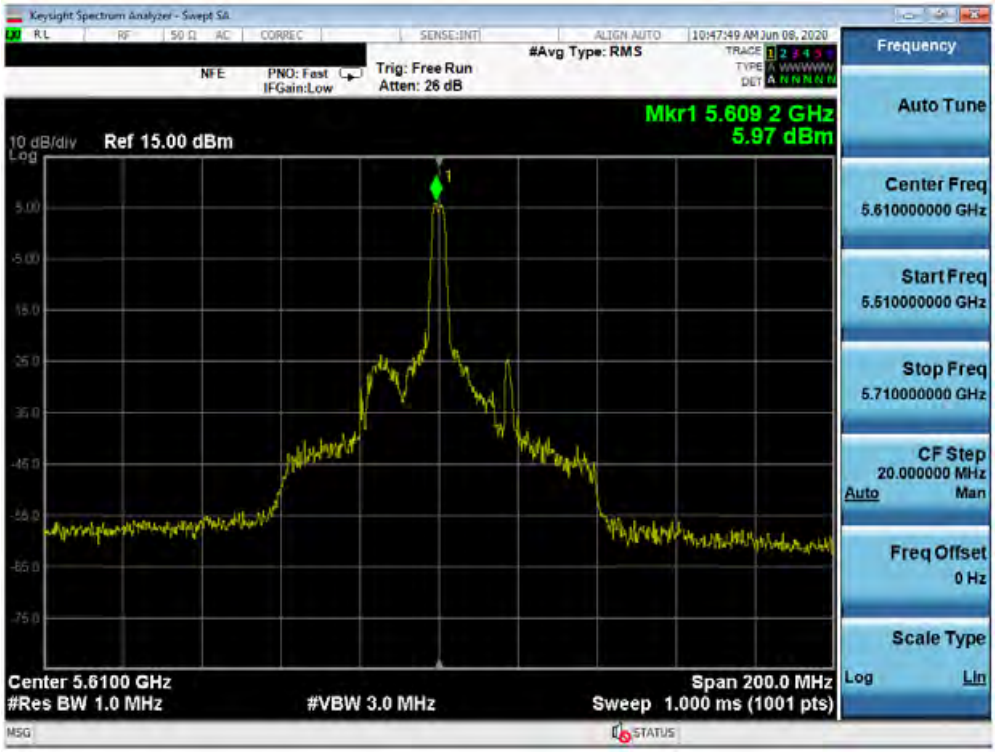
Plot 7-179. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



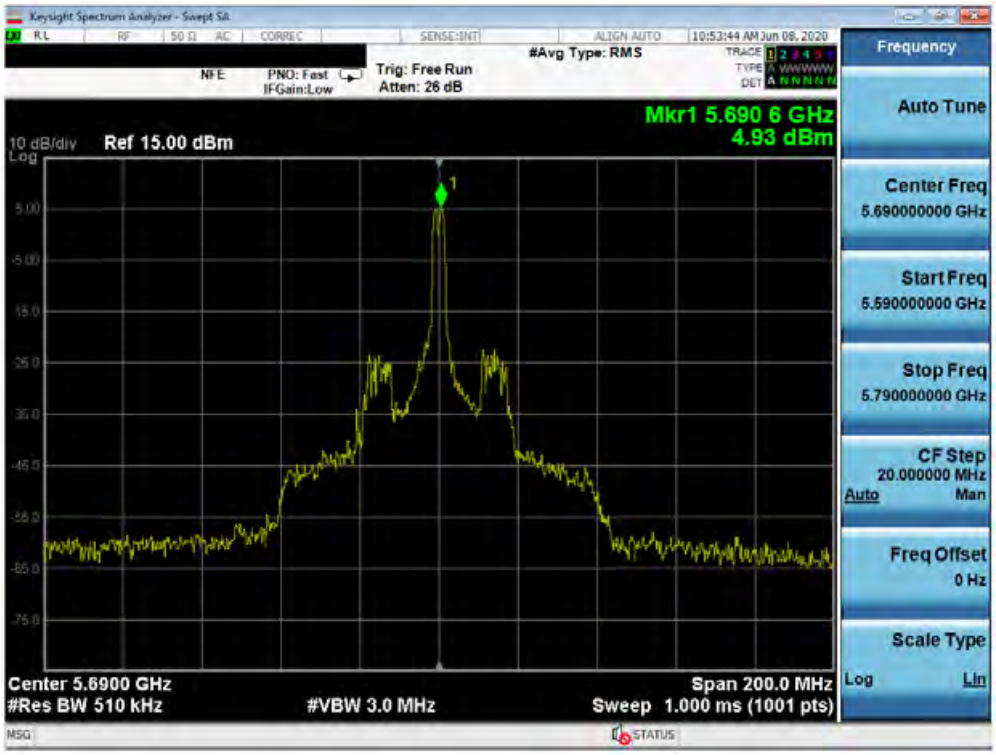
Plot 7-180. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)



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



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

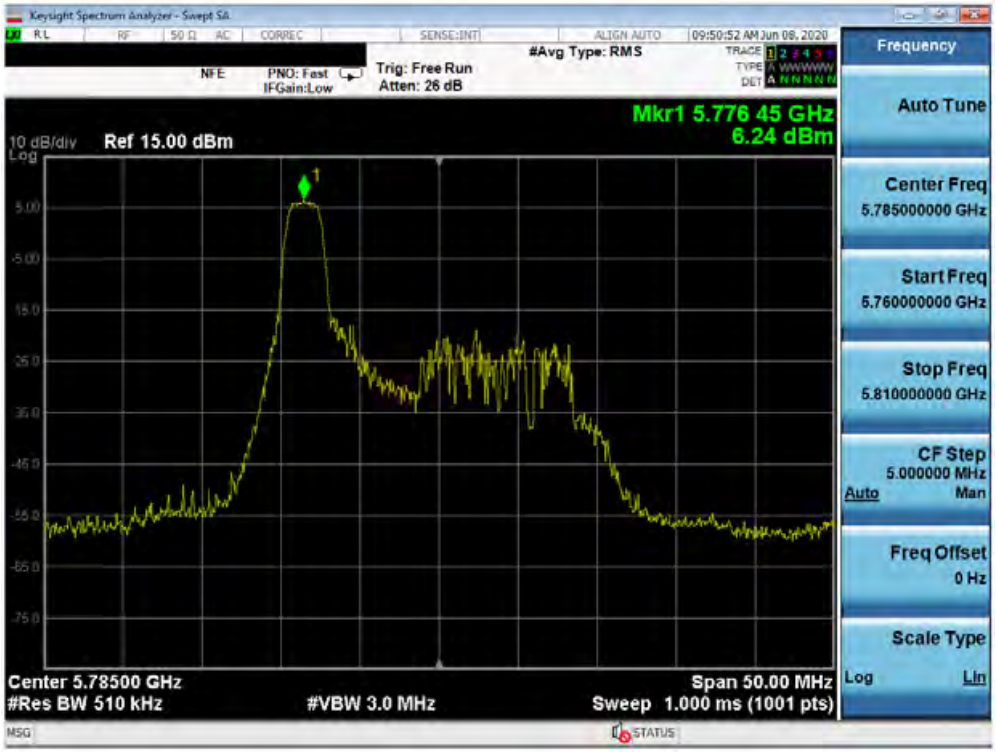


Plot 7-183. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	6.26	30.00	-23.74
	5785	157	ax (20MHz)	26T	MCS0	6.24	30.00	-23.76
	5825	165	ax (20MHz)	26T	MCS0	6.10	30.00	-23.90
	5755	151	ax (40MHz)	26T	MCS0	6.19	30.00	-23.81
	5795	159	ax (40MHz)	26T	MCS0	6.67	30.00	-23.33
	5775	155	ax (80MHz)	26T	MCS0	7.99	30.00	-22.01

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

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



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

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

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

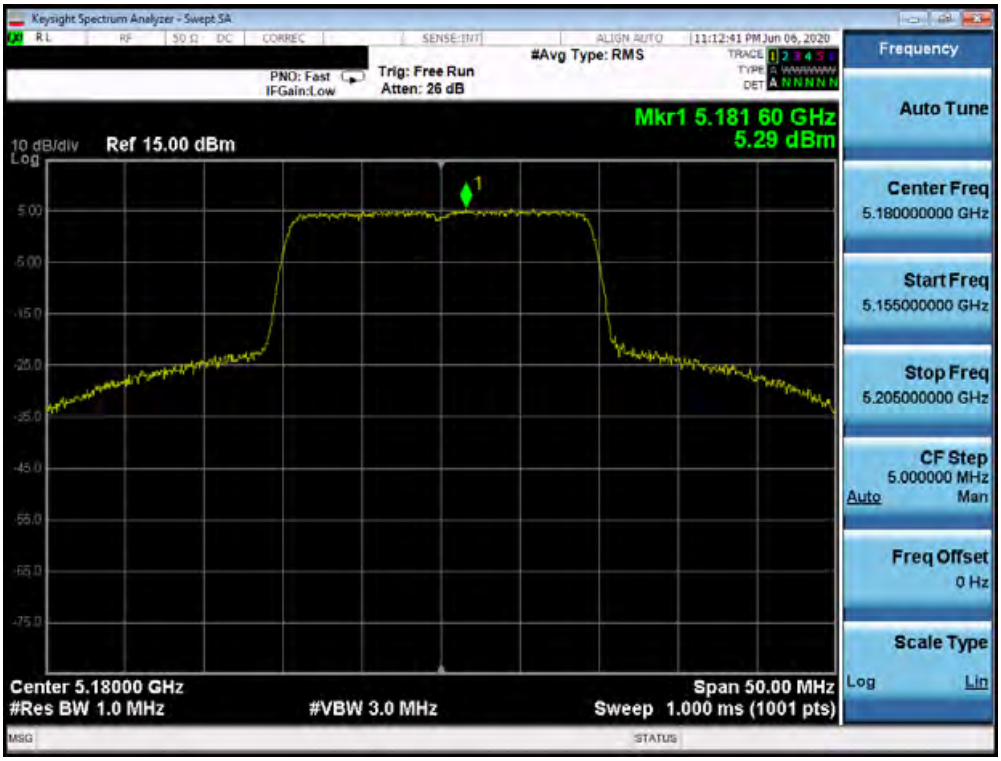
Plot 7-188. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

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

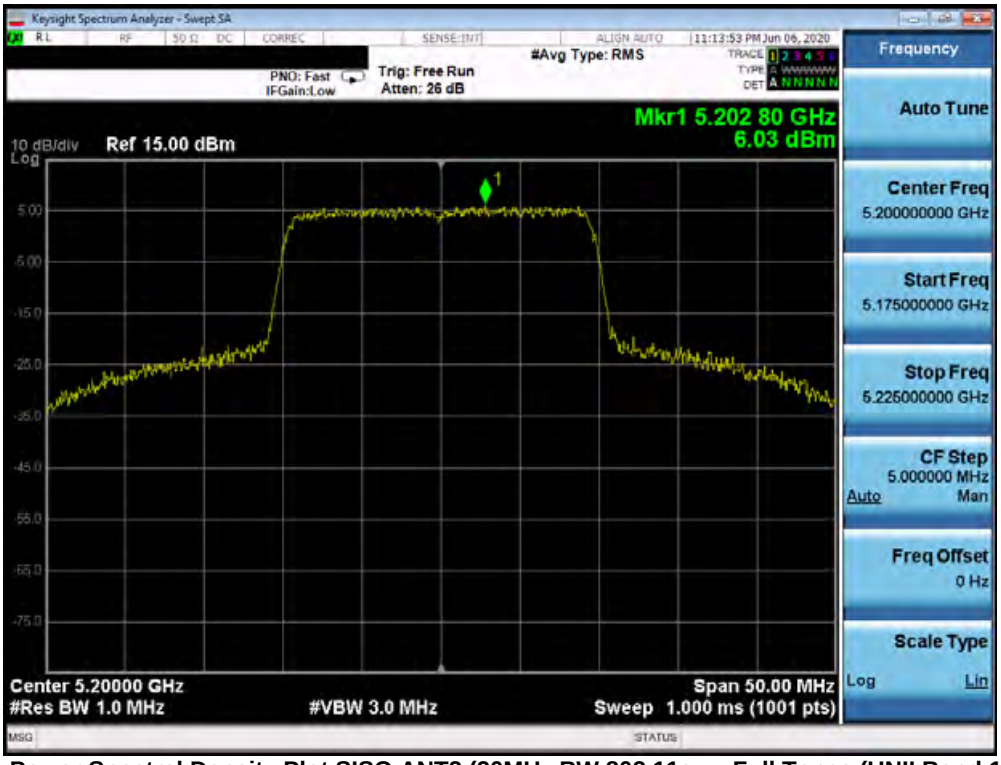
SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	5.29	11.0	-5.71
	5200	40	ax (20MHz)	242T	MCS0	6.03	11.0	-4.97
	5240	48	ax (20MHz)	242T	MCS0	5.87	11.0	-5.13
	5190	38	ax (40MHz)	484T	MCS0	2.11	11.0	-8.89
	5230	46	ax (40MHz)	484T	MCS0	2.14	11.0	-8.86
	5210	42	ax (80MHz)	996T	MCS0	-1.43	11.0	-12.43
Band 2A	5260	52	ax (20MHz)	242T	MCS0	6.33	11.0	-4.67
	5280	56	ax (20MHz)	242T	MCS0	6.35	11.0	-4.65
	5320	64	ax (20MHz)	242T	MCS0	5.38	11.0	-5.62
	5270	54	ax (40MHz)	484T	MCS0	2.64	11.0	-8.36
	5310	62	ax (40MHz)	484T	MCS0	1.56	11.0	-9.44
	5290	58	ax (80MHz)	996T	MCS0	-2.44	11.0	-13.44
Band 2C	5500	100	ax (20MHz)	242T	MCS0	5.45	11.0	-5.55
	5580	116	ax (20MHz)	242T	MCS0	4.63	11.0	-6.37
	5700	140	ax (20MHz)	242T	MCS0	5.91	11.0	-5.09
	5510	102	ax (40MHz)	484T	MCS0	2.37	11.0	-8.63
	5590	118	ax (40MHz)	484T	MCS0	1.47	11.0	-9.53
	5710	142	ax (40MHz)	484T	MCS0	2.05	11.0	-8.95
	5530	106	ax (80MHz)	996T	MCS0	-1.74	11.0	-12.74
	5610	122	ax (80MHz)	996T	MCS0	-1.88	11.0	-12.88
	5690	138	ax (80MHz)	996T	MCS0	-4.32	11.0	-15.32

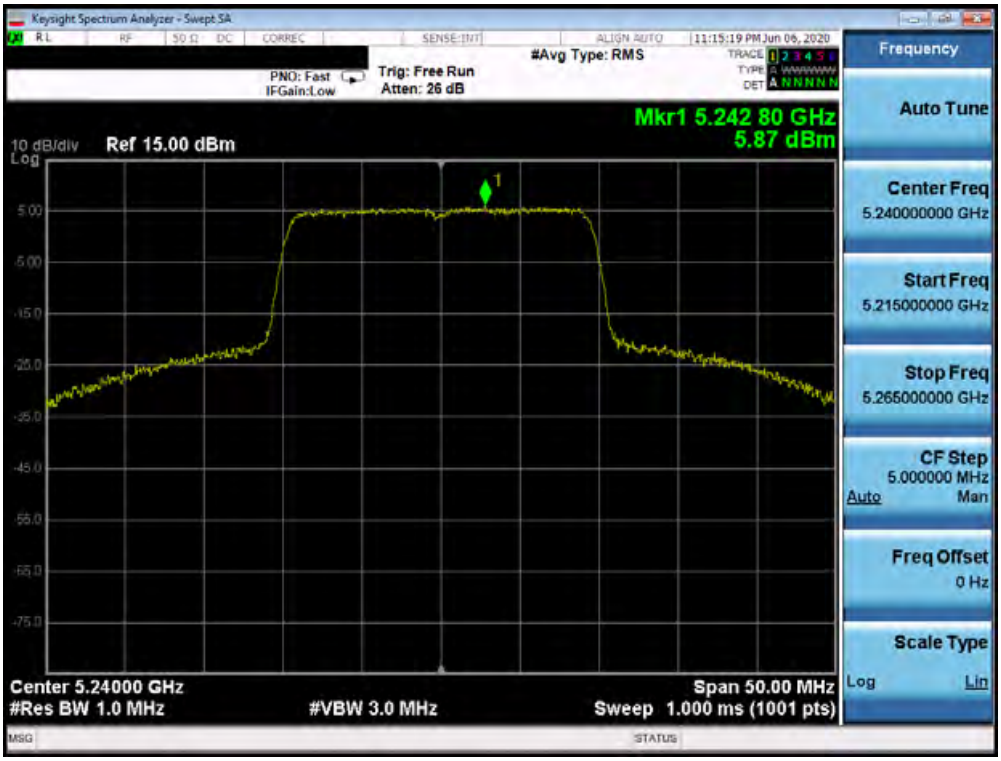
Table 7-61. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)



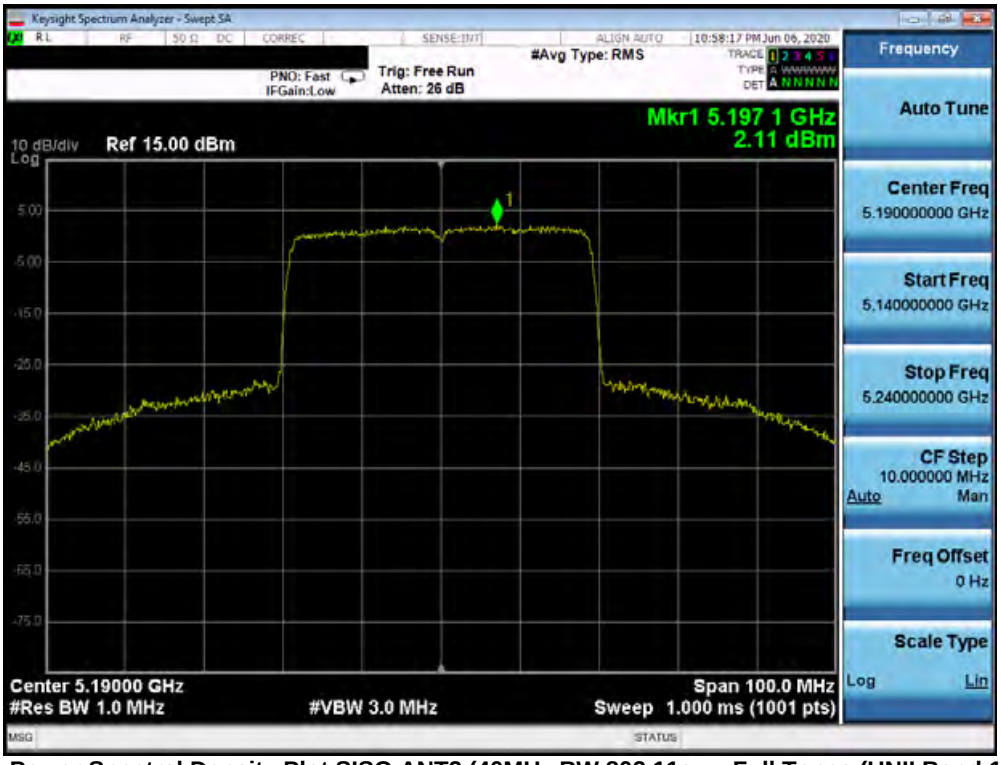
Plot 7-190. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)



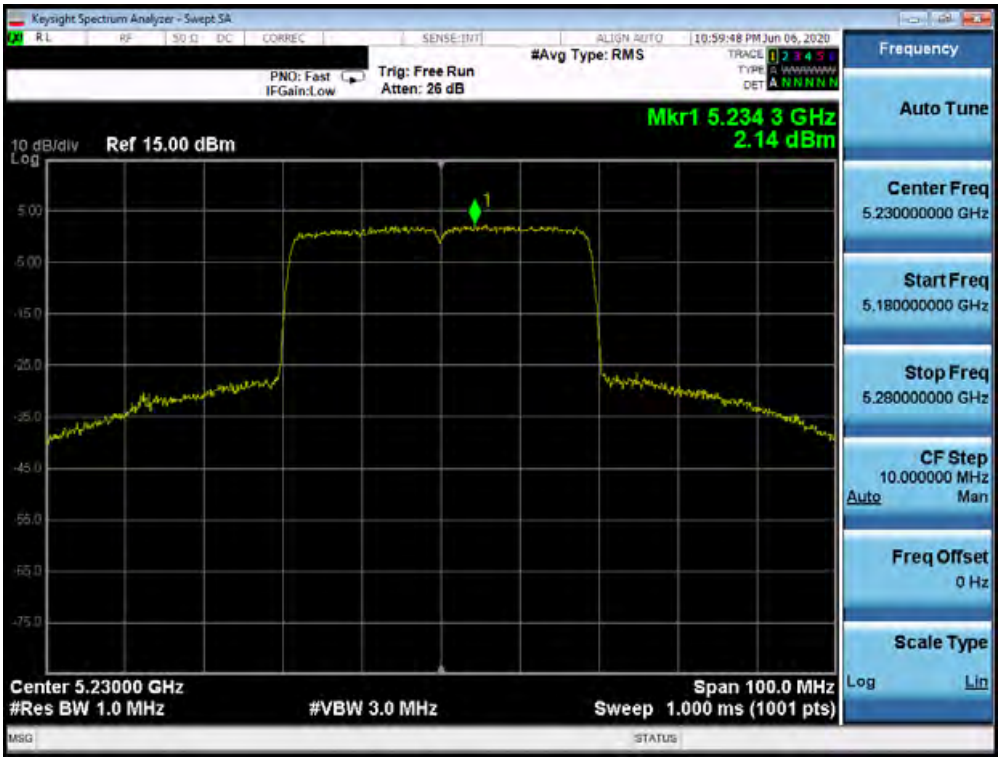
Plot 7-191. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)



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

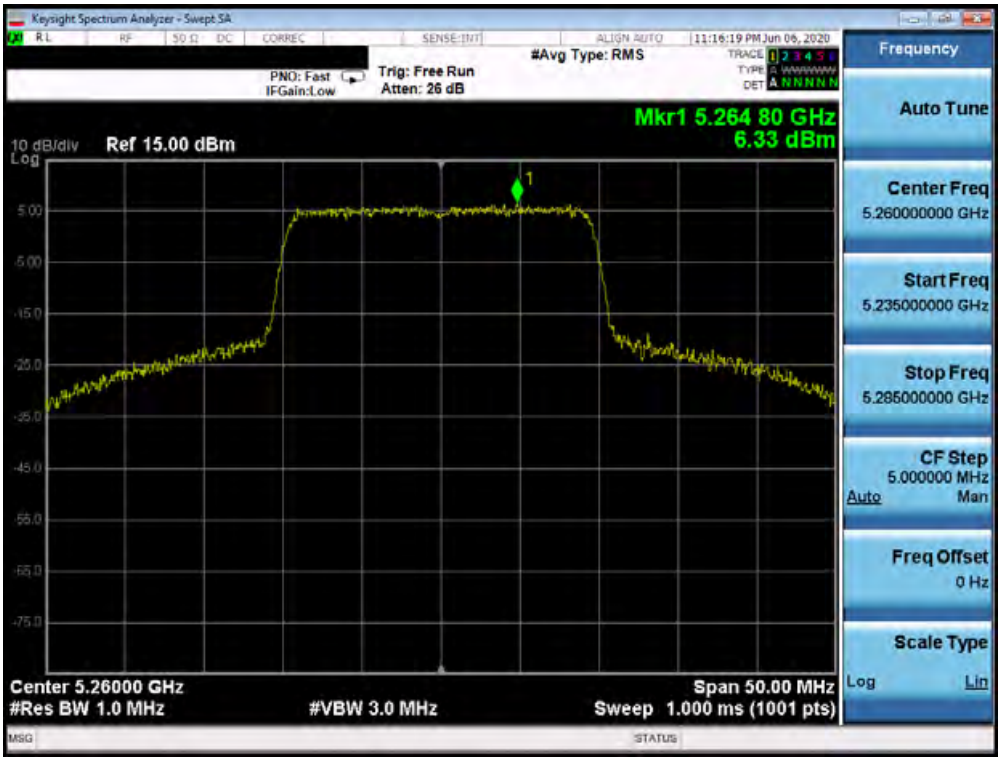


Plot 7-193. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

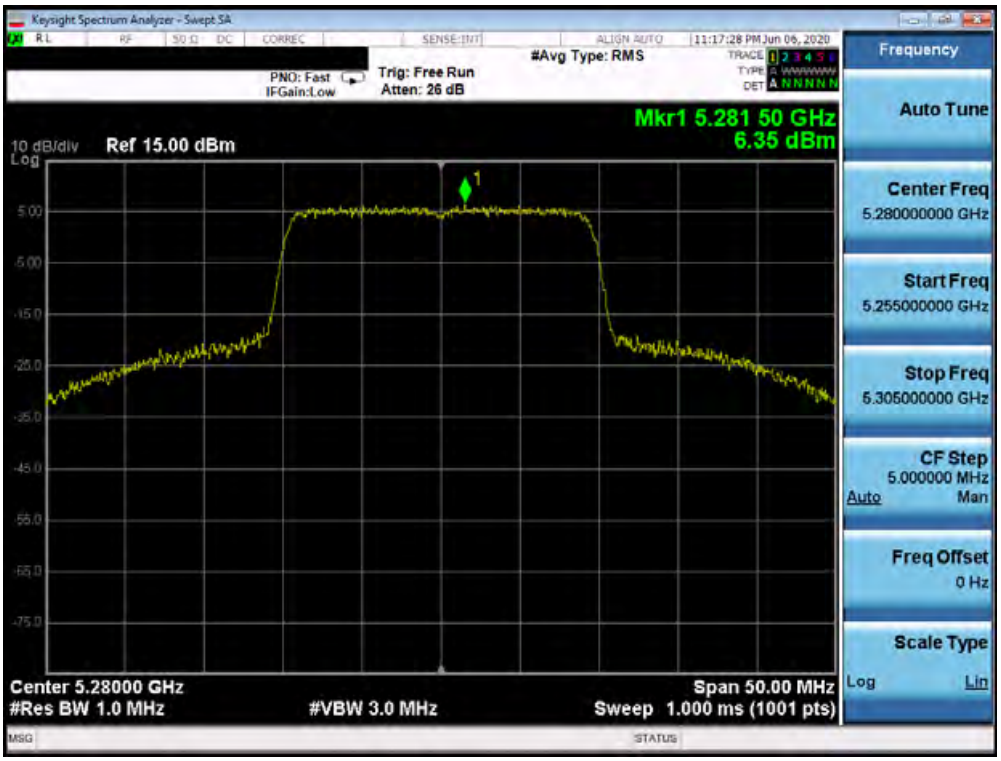


Plot 7-194. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

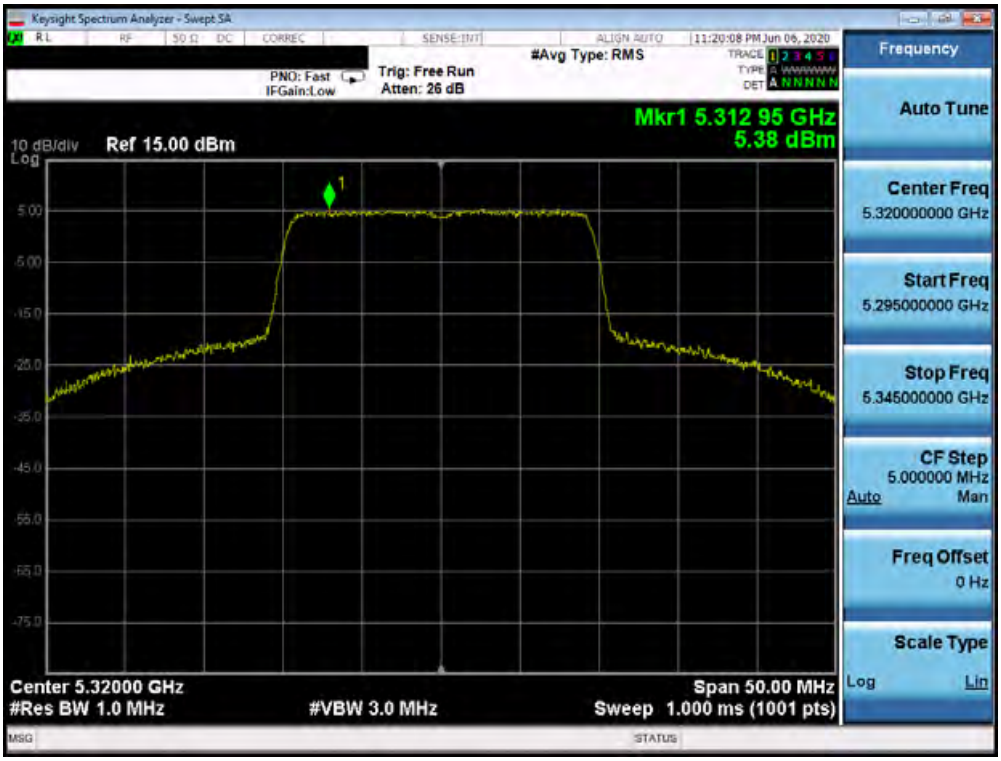
Plot 7-195. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)



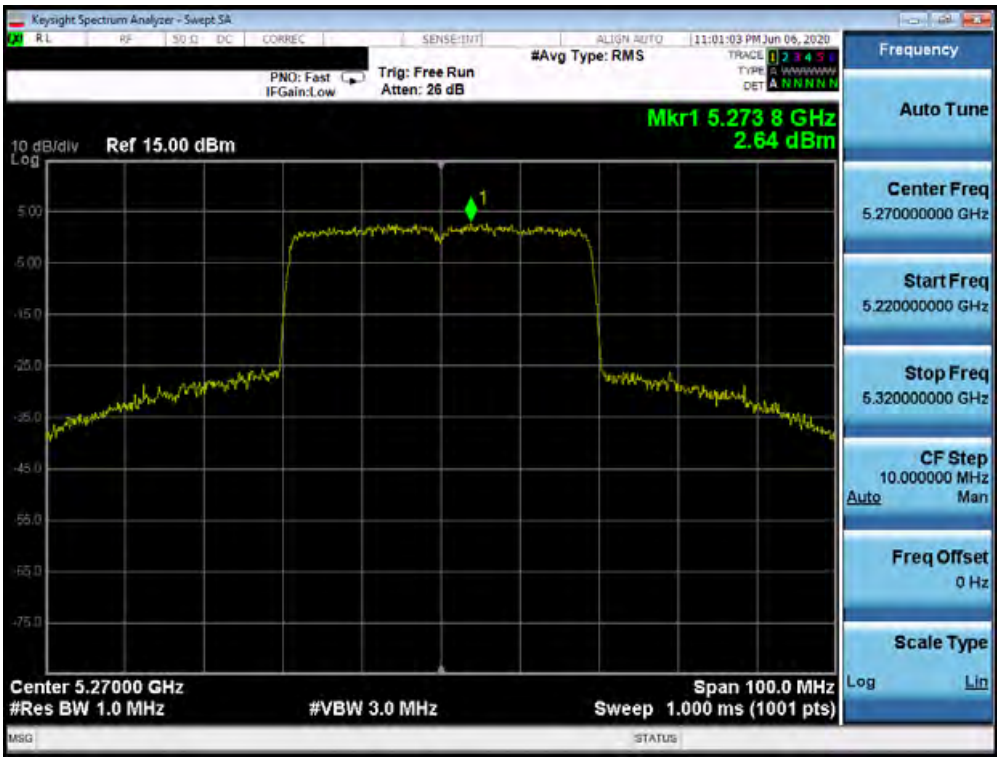
Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)



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

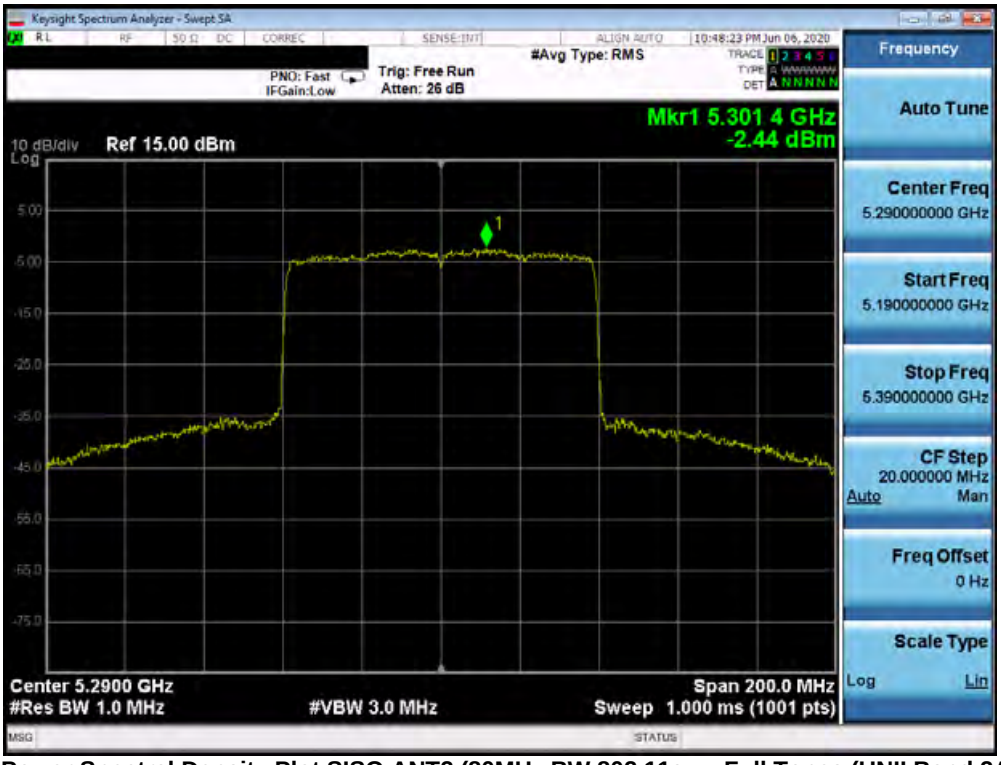


Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

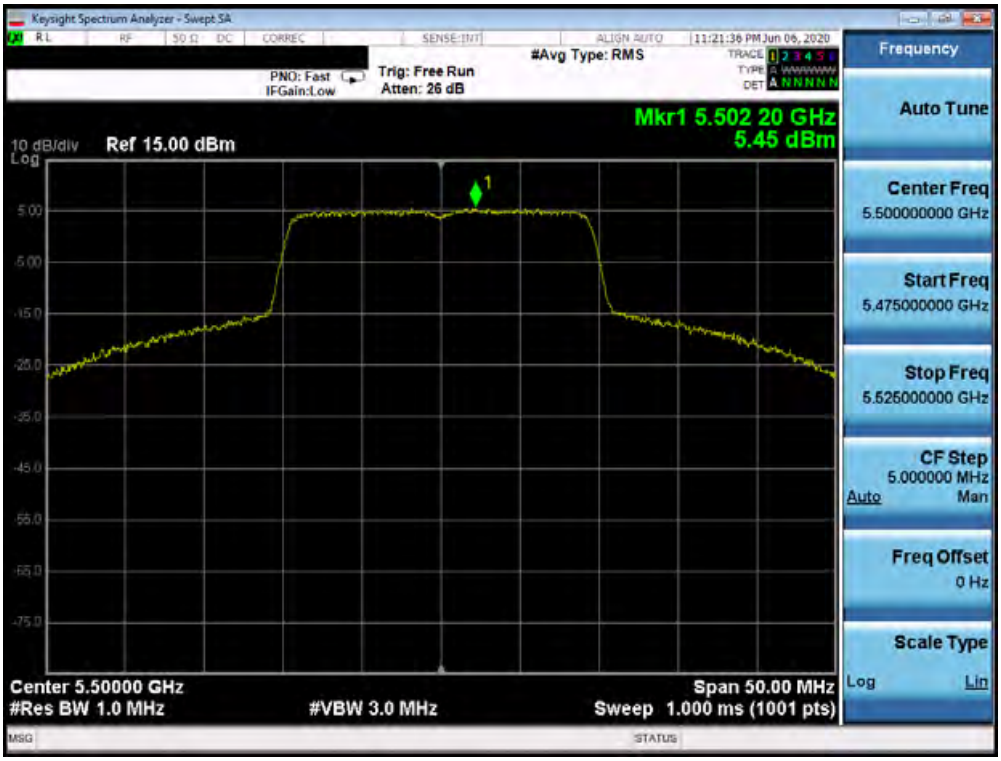


Plot 7-199. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

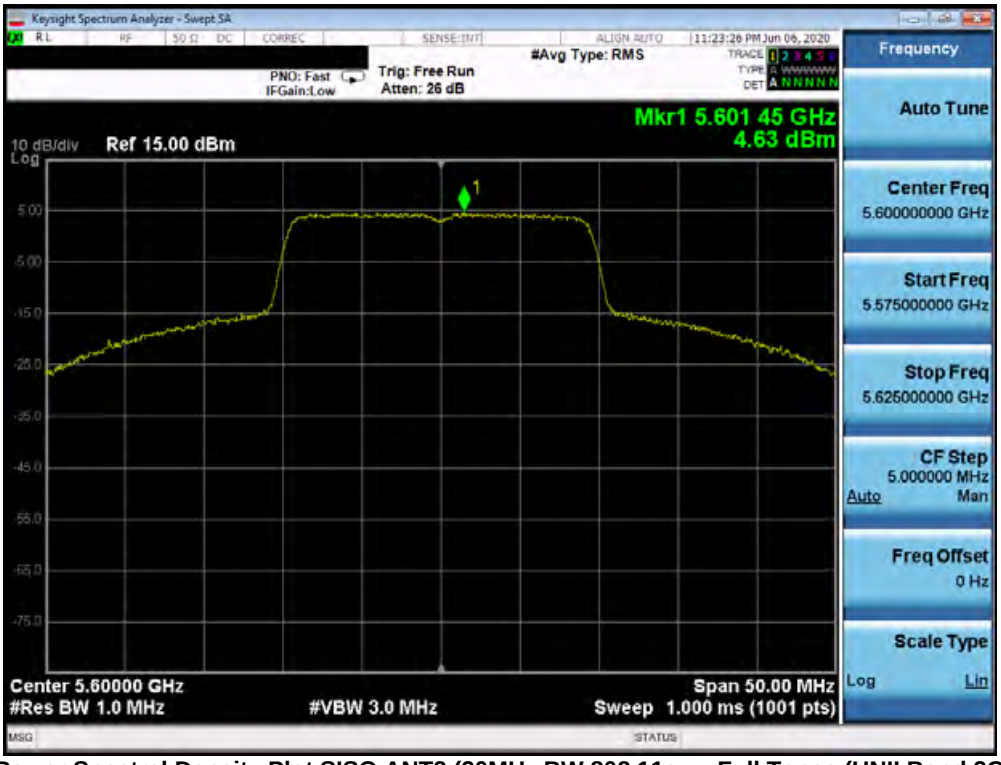
Plot 7-200. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)



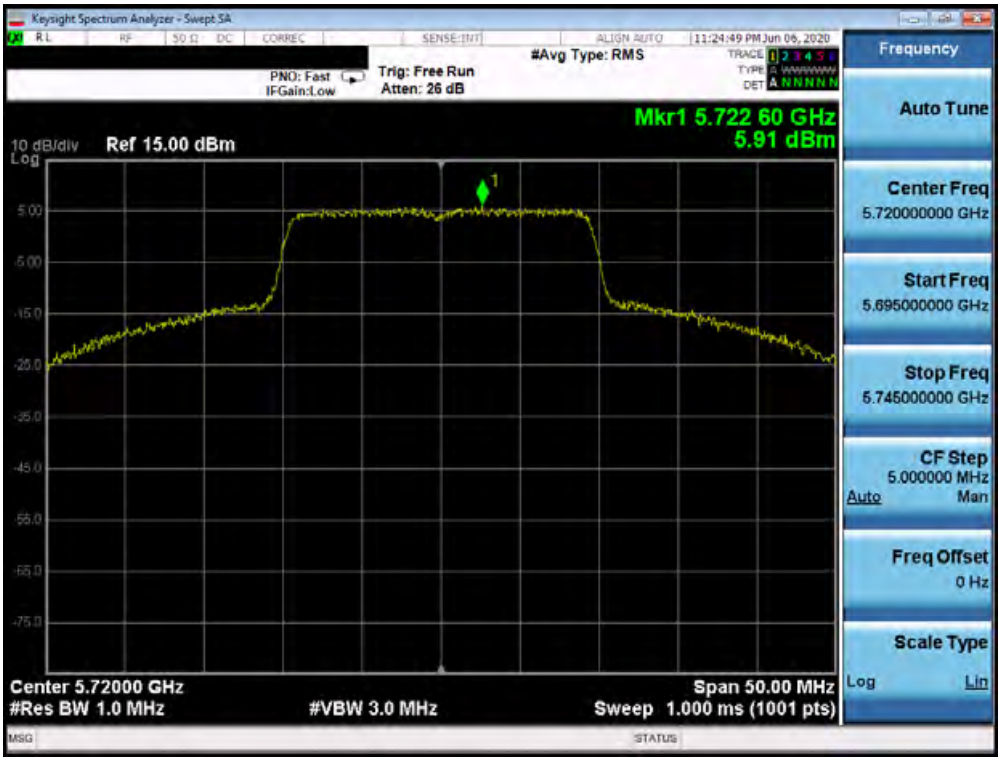
Plot 7-201. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)



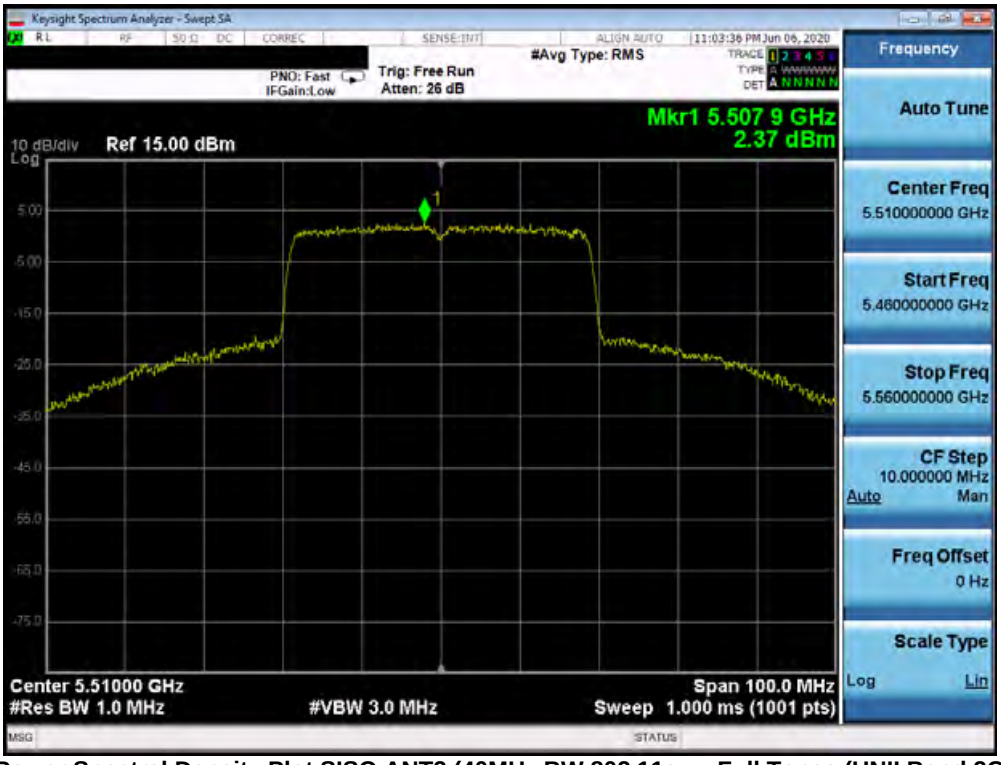
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)



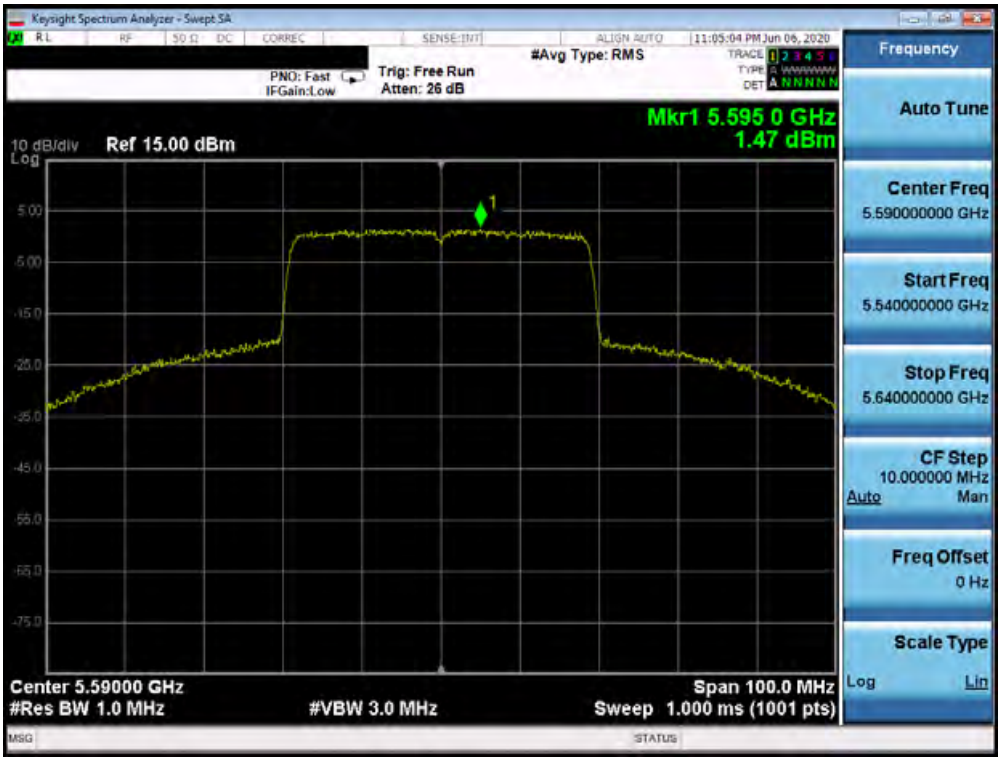
Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)



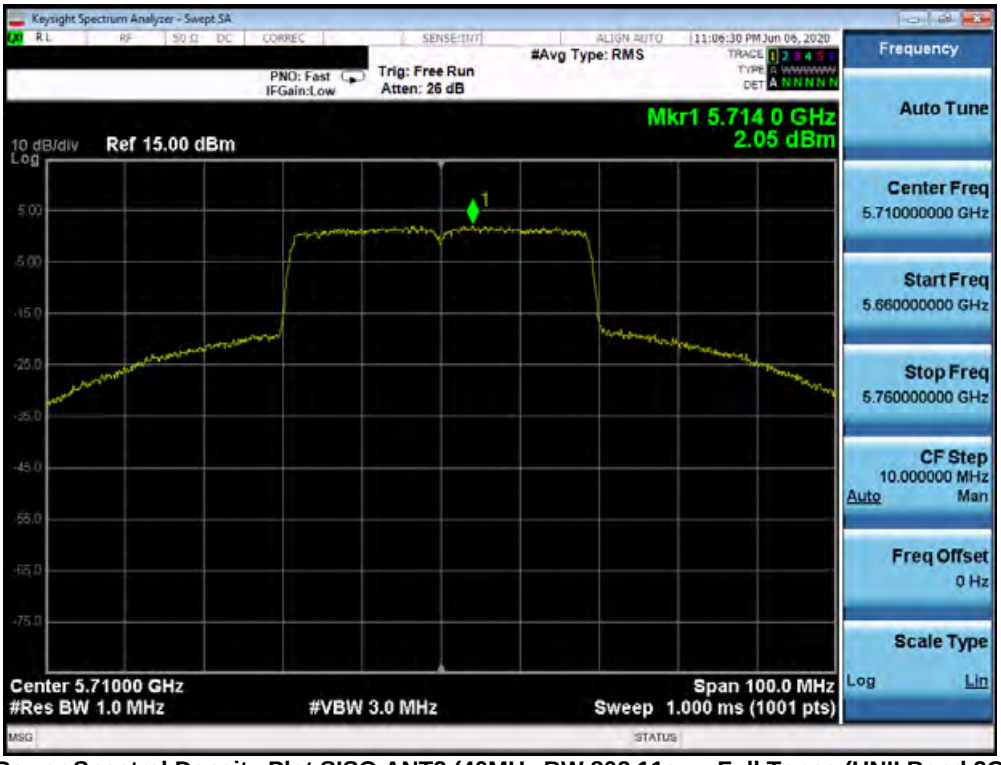
Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)



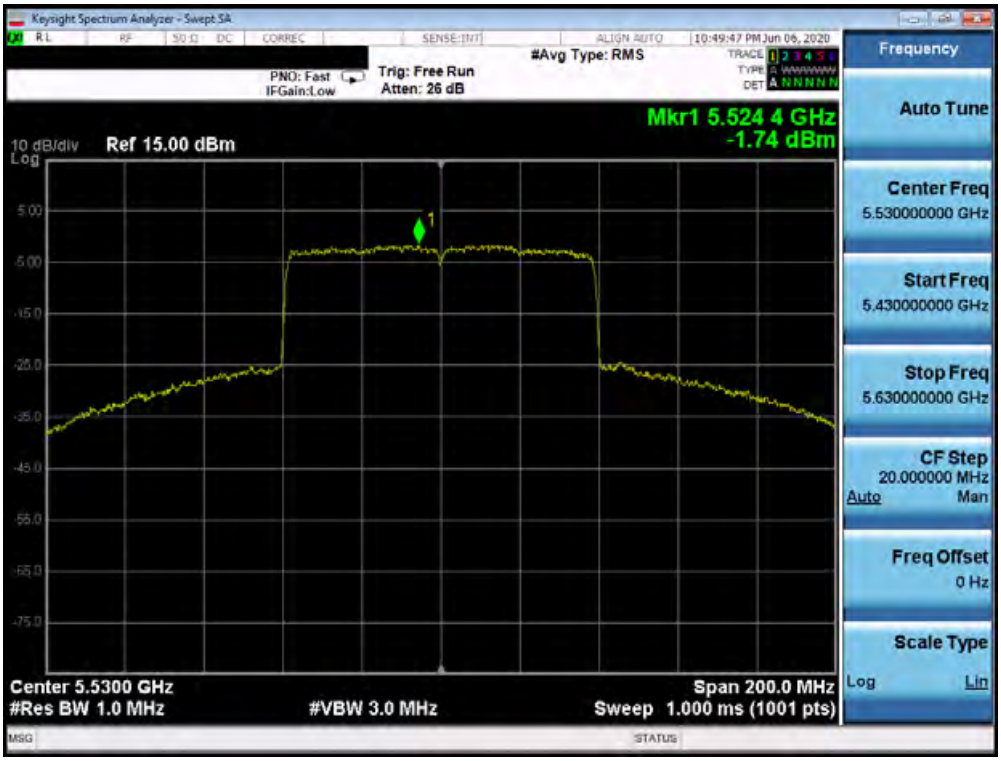
Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)



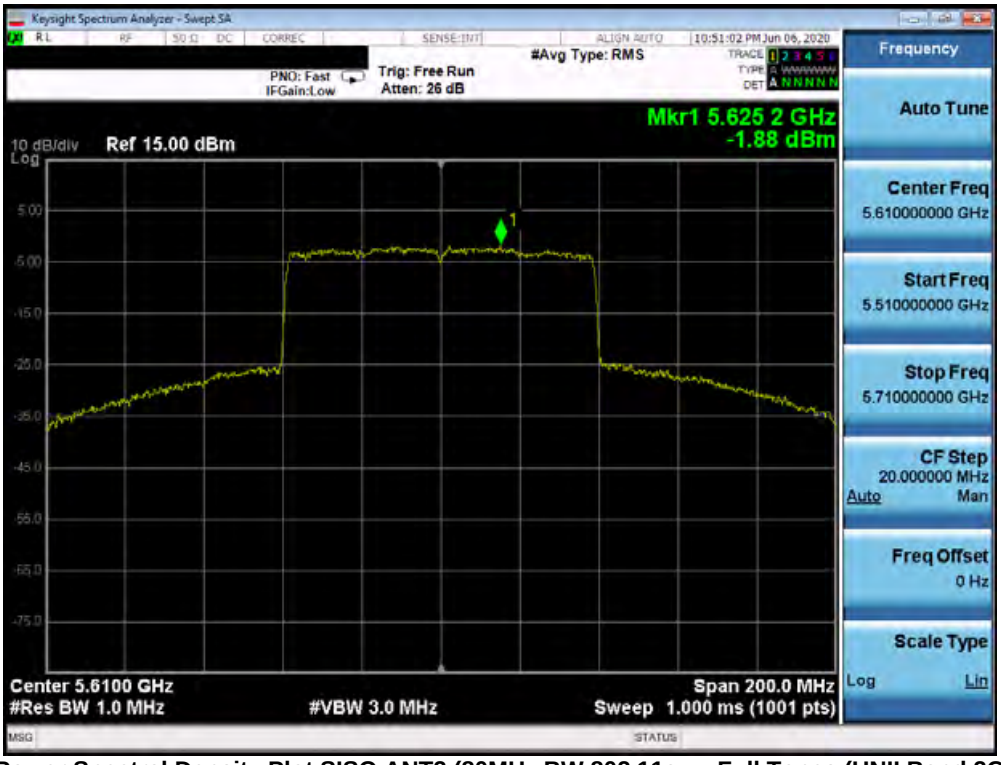
Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)



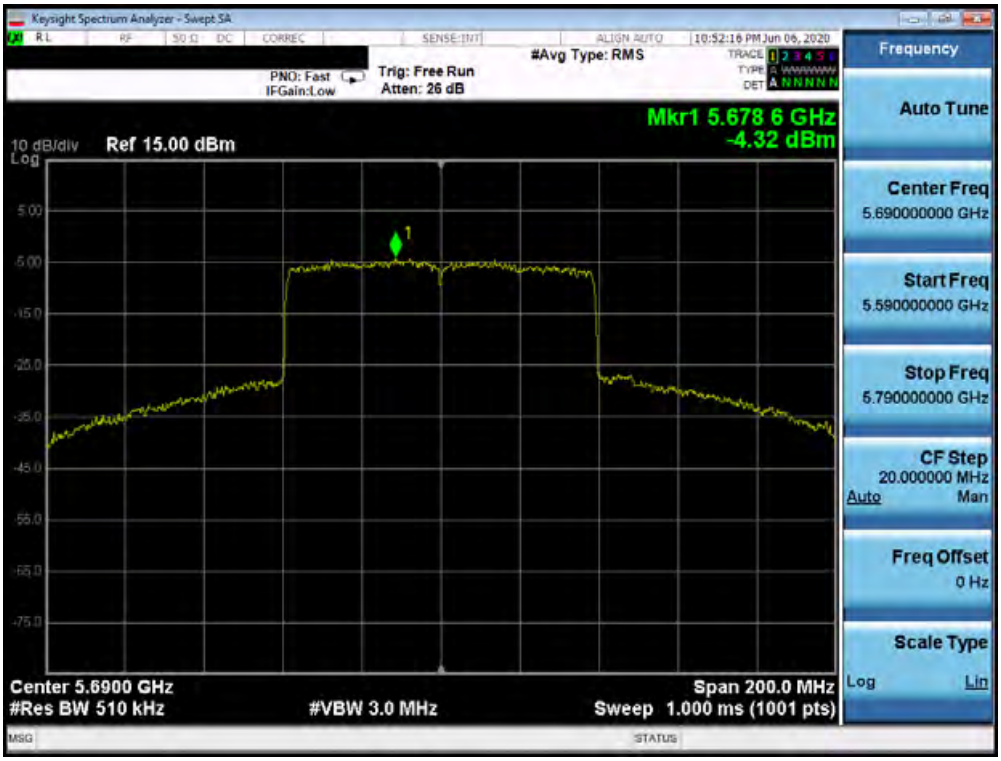
Plot 7-207. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)



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



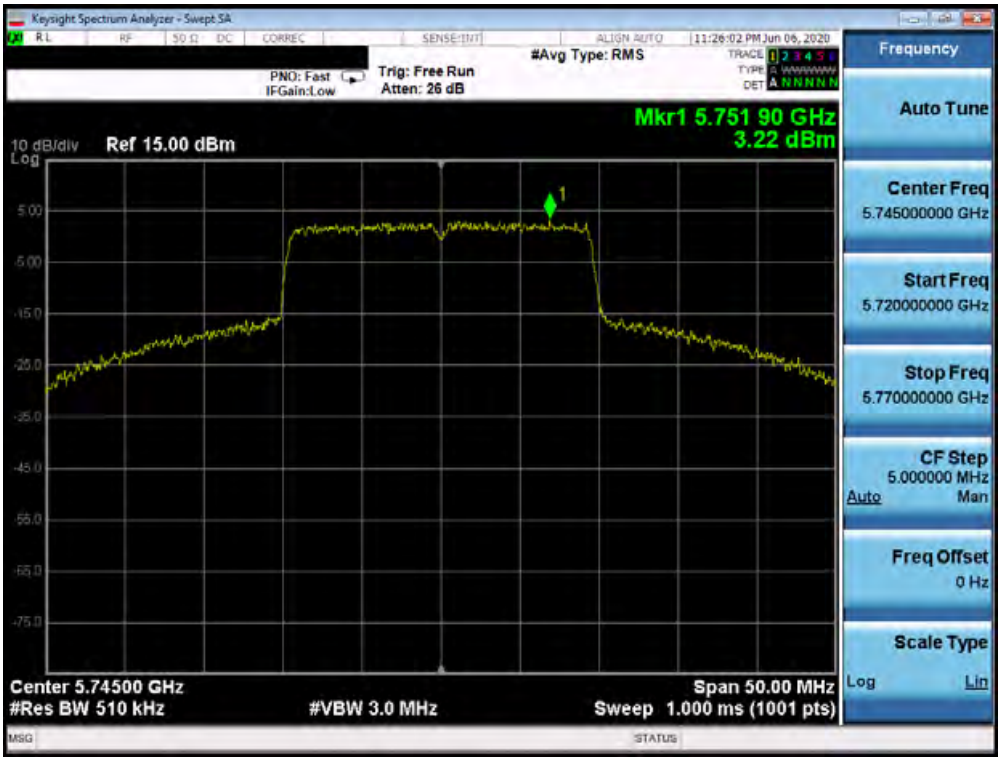
Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)



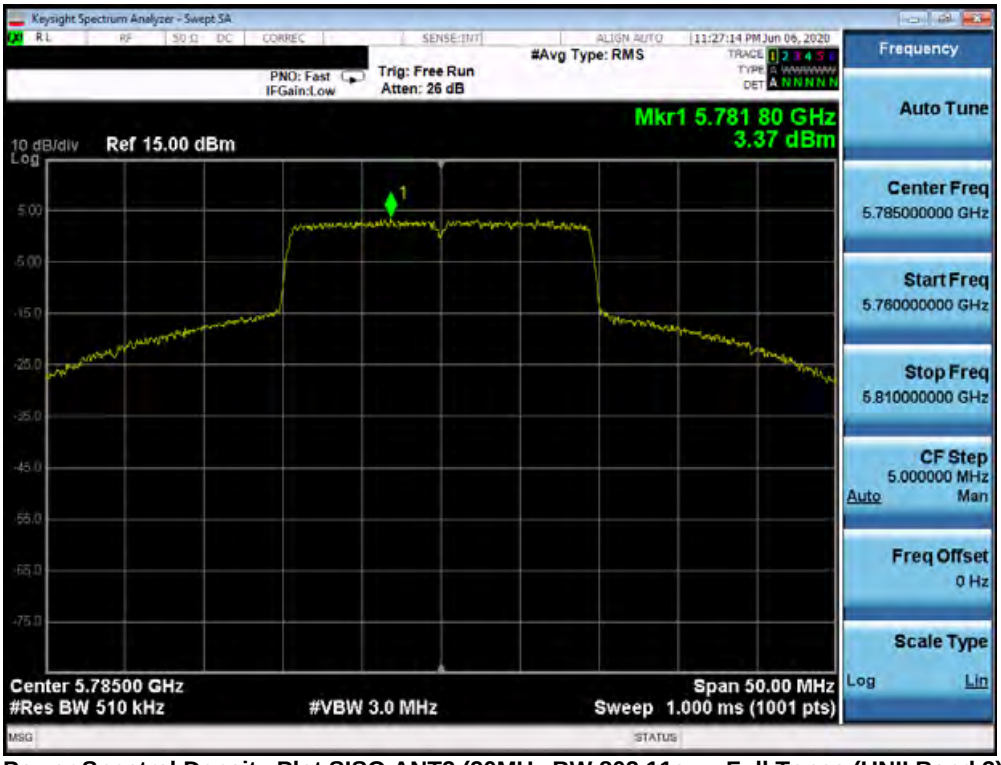
Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	3.22	30.00	-26.78
	5785	157	ax (20MHz)	242T	MCS0	3.37	30.00	-26.63
	5825	165	ax (20MHz)	242T	MCS0	2.93	30.00	-27.07
	5755	151	ax (40MHz)	484T	MCS0	-0.28	30.00	-30.28
	5795	159	ax (40MHz)	484T	MCS0	-0.24	30.00	-30.24
	5775	155	ax (80MHz)	996T	MCS0	-1.64	30.00	-31.64

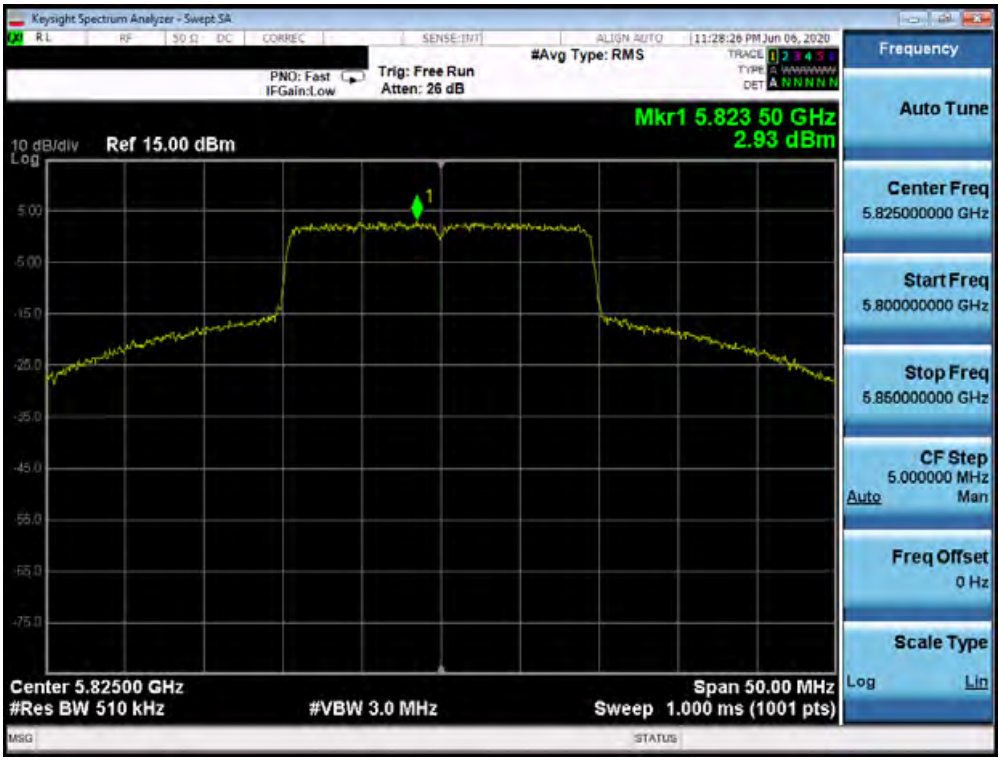
Table 7-62. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)



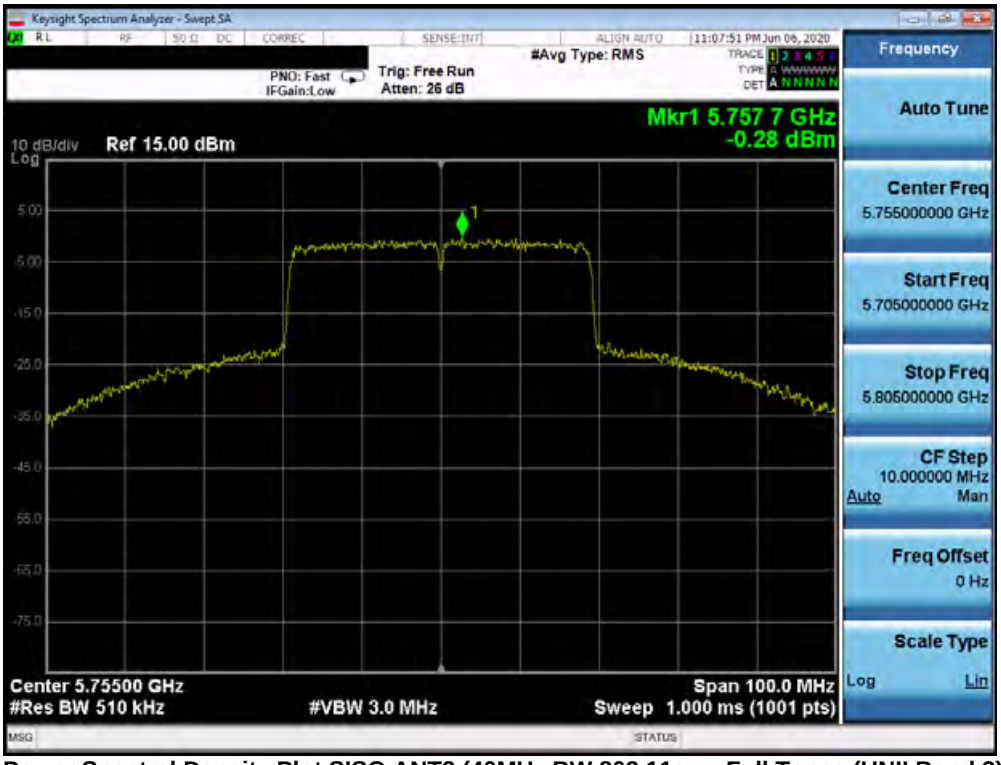
Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)



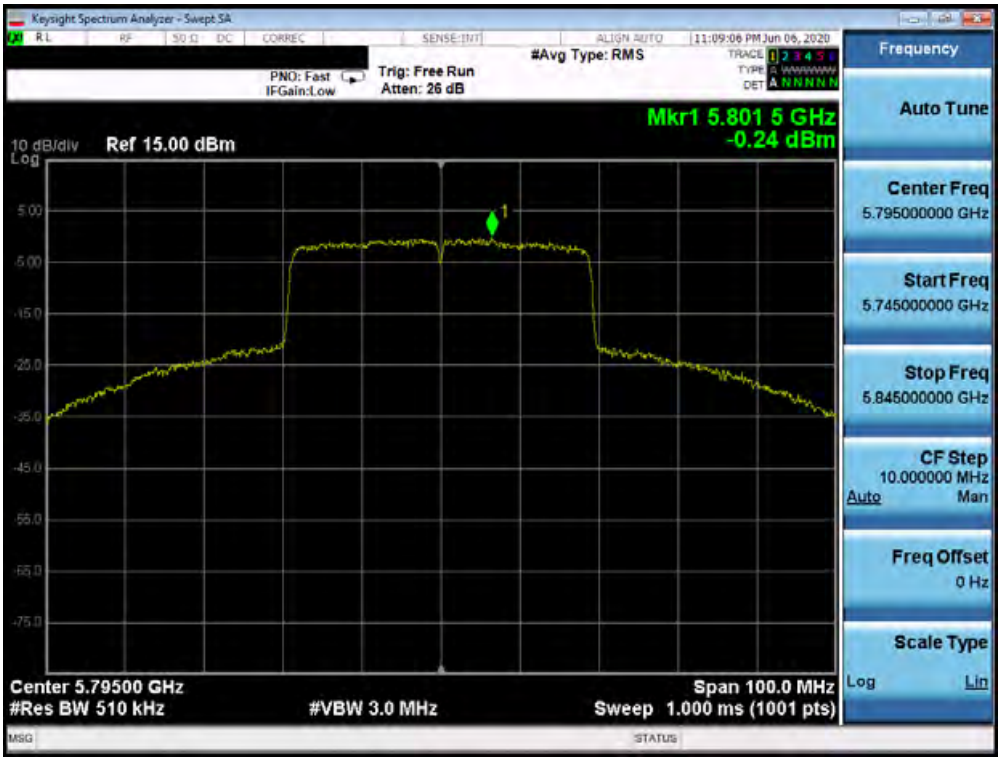
Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)



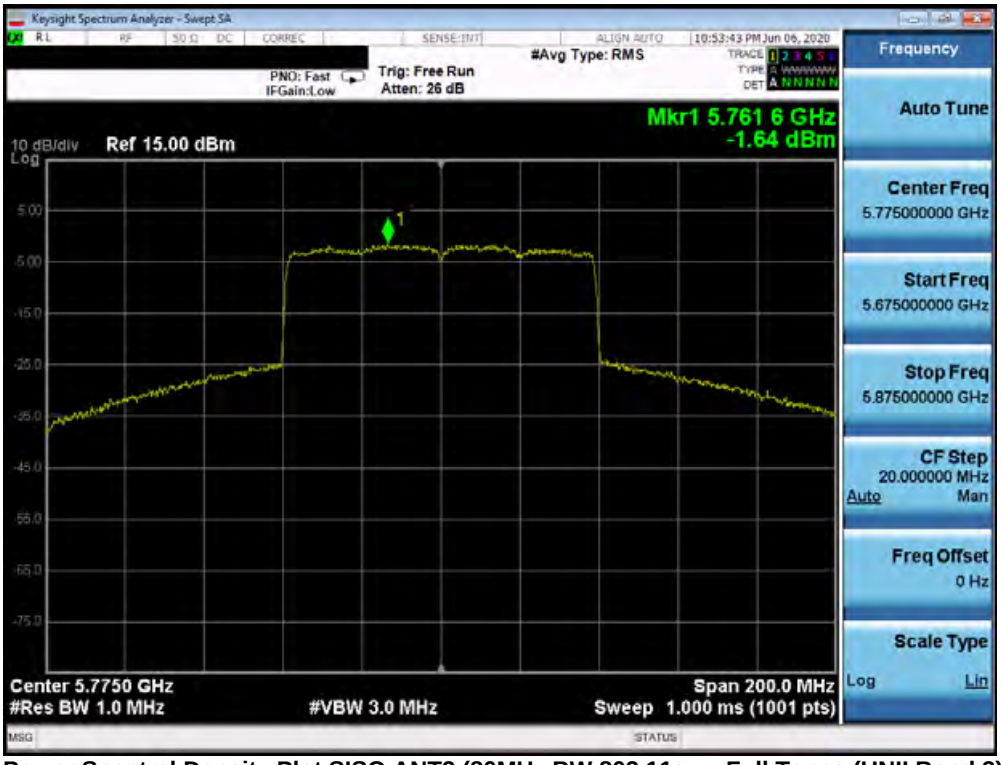
Plot 7-213. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)



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



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



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

Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	4.19	5.01	7.63	11.00	-3.37
	5200	40	ax (20MHz)	26T	MCS0	4.33	5.17	7.78	11.00	-3.22
	5240	48	ax (20MHz)	26T	MCS0	4.61	5.23	7.94	11.00	-3.06
	5190	38	ax (40MHz)	26T	MCS0	4.56	5.21	7.91	11.00	-3.09
	5230	46	ax (40MHz)	26T	MCS0	5.18	5.55	8.38	11.00	-2.62
	5210	42	ax (80MHz)	26T	MCS0	3.89	4.48	7.21	11.00	-3.79
Band 2A	5260	52	ax (20MHz)	26T	MCS0	4.57	5.13	7.87	11.00	-3.13
	5280	56	ax (20MHz)	26T	MCS0	4.31	4.83	7.59	11.00	-3.41
	5320	64	ax (20MHz)	26T	MCS0	4.45	4.44	7.46	11.00	-3.54
	5270	54	ax (40MHz)	26T	MCS0	4.50	4.86	7.69	11.00	-3.31
	5310	62	ax (40MHz)	26T	MCS0	4.56	4.62	7.60	11.00	-3.40
	5290	58	ax (80MHz)	26T	MCS0	3.43	3.78	6.62	11.00	-4.38
Band 2C	5500	100	ax (20MHz)	26T	MCS0	5.03	4.69	7.87	11.00	-3.13
	5600	120	ax (20MHz)	26T	MCS0	5.13	4.51	7.84	11.00	-3.16
	5720	144	ax (20MHz)	26T	MCS0	5.10	5.45	8.29	11.00	-2.71
	5510	102	ax (40MHz)	26T	MCS0	5.38	4.35	7.91	11.00	-3.09
	5590	118	ax (40MHz)	26T	MCS0	5.10	4.73	7.93	11.00	-3.07
	5710	142	ax (40MHz)	26T	MCS0	4.86	4.90	7.89	11.00	-3.11
	5530	106	ax (80MHz)	26T	MCS0	4.27	3.95	7.12	11.00	-3.88
	5610	122	ax (80MHz)	26T	MCS0	4.84	4.11	7.50	11.00	-3.50
	5690	138	ax (80MHz)	26T	MCS0	-10.45	-9.87	-7.14	11.00	-18.14

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

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	3.29	3.50	6.41	30.00	-23.59
	5785	157	ax (20MHz)	26T	MCS0	3.14	4.11	6.66	30.00	-23.34
	5825	165	ax (20MHz)	26T	MCS0	2.86	3.69	6.31	30.00	-23.69
	5755	151	ax (40MHz)	26T	MCS0	2.51	2.99	5.77	30.00	-24.23
	5795	159	ax (40MHz)	26T	MCS0	3.51	4.30	6.93	30.00	-23.07
	5775	155	ax (80MHz)	26T	MCS0	4.53	5.21	7.89	30.00	-22.11

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

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	1.65	1.69	4.68	11.00	-6.32
	5200	40	ax (20MHz)	242T	MCS0	2.70	2.66	5.69	11.00	-5.31
	5240	48	ax (20MHz)	242T	MCS0	2.58	3.21	5.92	11.00	-5.08
	5190	38	ax (40MHz)	484T	MCS0	-2.90	-2.52	0.30	11.00	-10.70
	5230	46	ax (40MHz)	484T	MCS0	-2.48	-2.56	0.49	11.00	-10.51
	5210	42	ax (80MHz)	996T	MCS0	-7.68	-7.44	-4.55	11.00	-15.55
Band 2A	5260	52	ax (20MHz)	242T	MCS0	2.48	2.69	5.60	11.00	-5.40
	5280	56	ax (20MHz)	242T	MCS0	2.52	2.68	5.61	11.00	-5.39
	5320	64	ax (20MHz)	242T	MCS0	2.66	2.29	5.49	11.00	-5.51
	5270	54	ax (40MHz)	484T	MCS0	-3.00	-2.62	0.20	11.00	-10.80
	5310	62	ax (40MHz)	484T	MCS0	-4.03	-4.17	-1.09	11.00	-12.09
	5290	58	ax (80MHz)	996T	MCS0	-7.74	-8.00	-4.86	11.00	-15.86
Band 2C	5500	100	ax (20MHz)	242T	MCS0	2.75	2.53	5.65	11.00	-5.35
	5580	116	ax (20MHz)	242T	MCS0	2.89	2.12	5.53	11.00	-5.47
	5700	140	ax (20MHz)	242T	MCS0	2.83	2.67	5.76	11.00	-5.24
	5510	102	ax (40MHz)	484T	MCS0	-1.78	-1.93	1.16	11.00	-9.84
	5590	118	ax (40MHz)	484T	MCS0	-1.98	-2.53	0.76	11.00	-10.24
	5710	142	ax (40MHz)	484T	MCS0	-1.82	-1.51	1.35	11.00	-9.65
	5530	106	ax (80MHz)	996T	MCS0	-7.94	-6.94	-4.40	11.00	-15.40
	5610	122	ax (80MHz)	996T	MCS0	-8.05	-7.56	-4.79	11.00	-15.79
	5690	138	ax (80MHz)	996T	MCS0	-9.42	-9.76	-6.58	11.00	-17.58

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

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	0.33	-0.12	3.12	30.00	-26.88
	5785	157	ax (20MHz)	242T	MCS0	-0.07	0.04	3.00	30.00	-27.00
	5825	165	ax (20MHz)	242T	MCS0	-0.62	-0.20	2.61	30.00	-27.39
	5755	151	ax (40MHz)	484T	MCS0	-3.99	-3.89	-0.93	30.00	-30.93
	5795	159	ax (40MHz)	484T	MCS0	-4.28	-3.72	-0.98	30.00	-30.98
	5775	155	ax (80MHz)	996T	MCS0	-6.33	-6.17	-3.24	30.00	-33.24

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

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately with reduced Antenna 1 and Antenna 2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

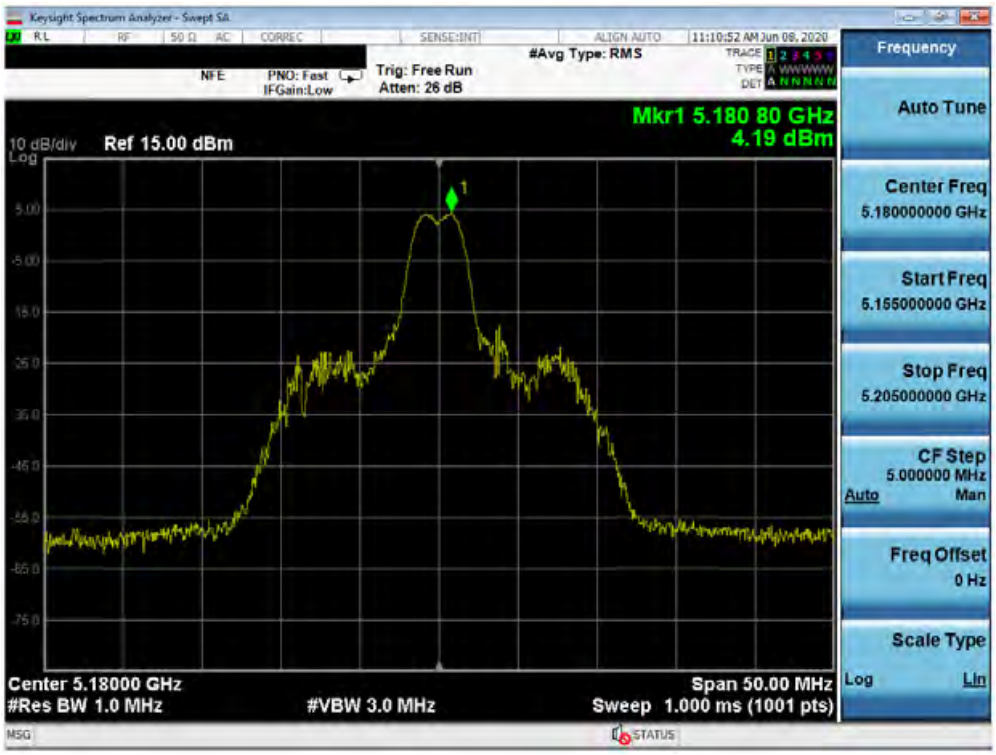
Sample MIMO Calculation:

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

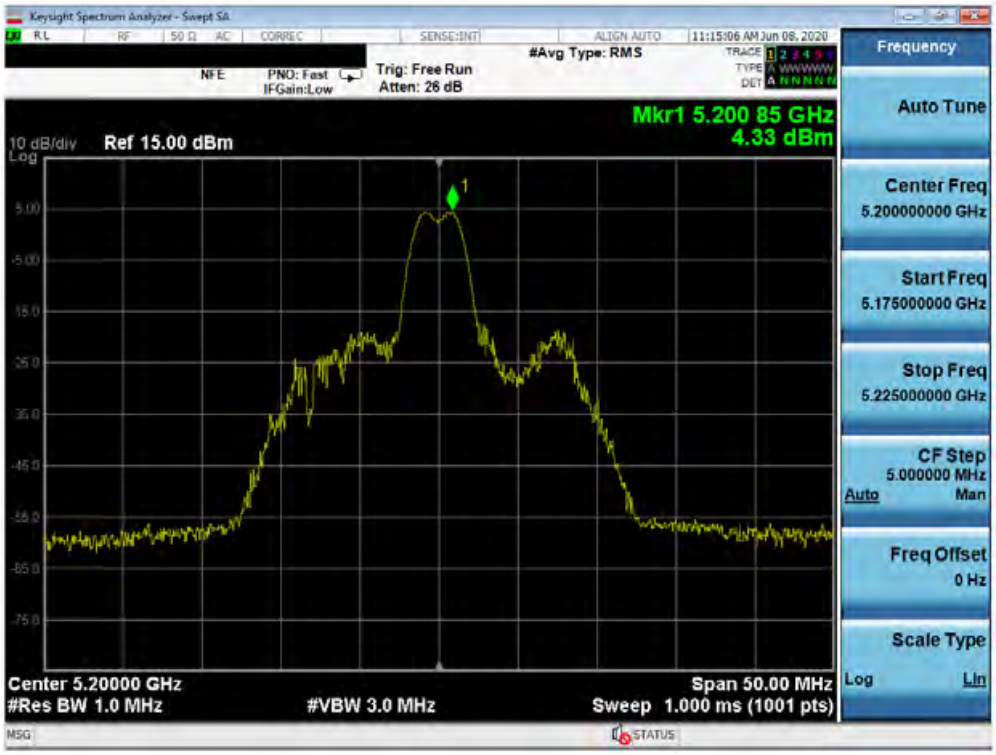
Antenna 1 + Antenna 2 = MIMO

(5.88 dBm + 6.27 dBm) = (3.87 mW + 4.24 mW) = 8.11mW = 9.09 dBm

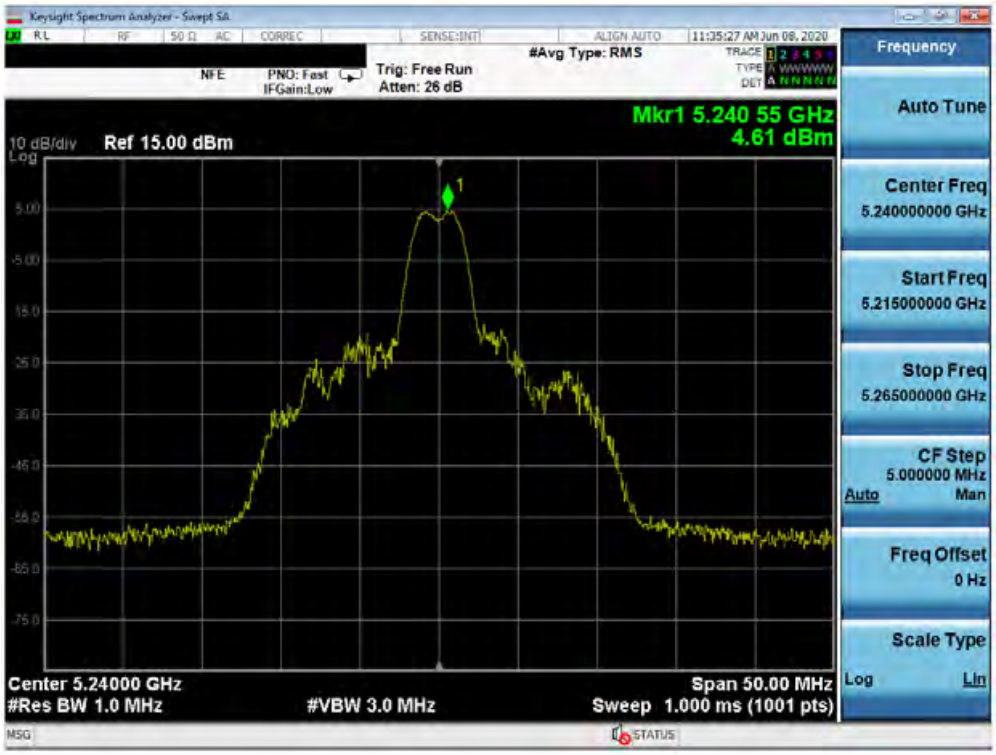
MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)



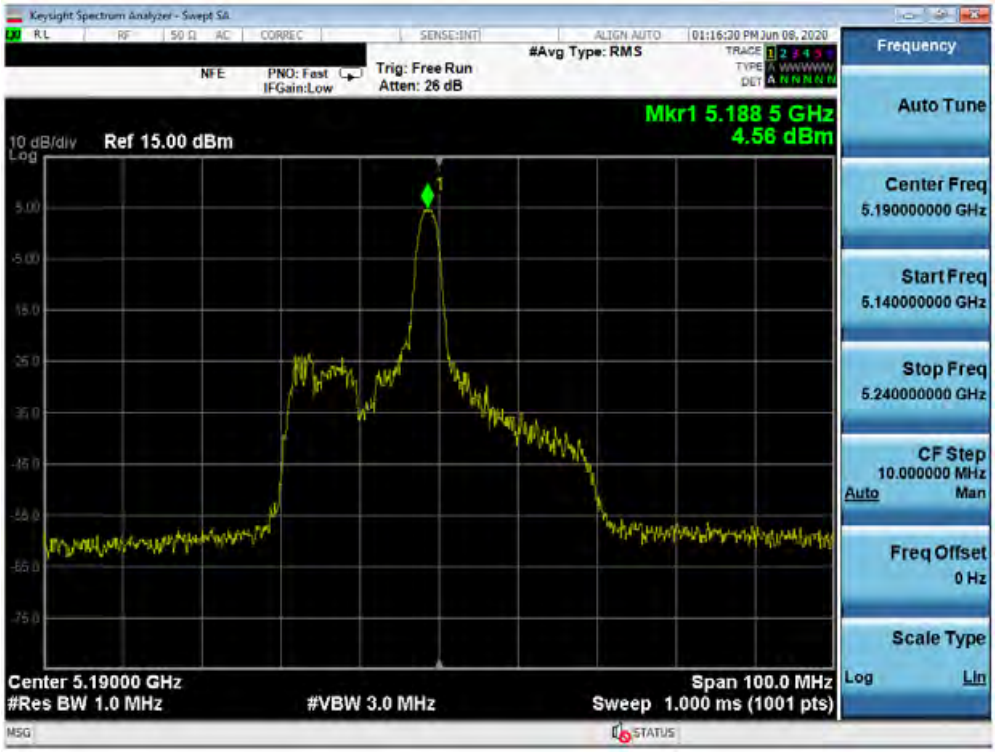
Plot 7-217. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



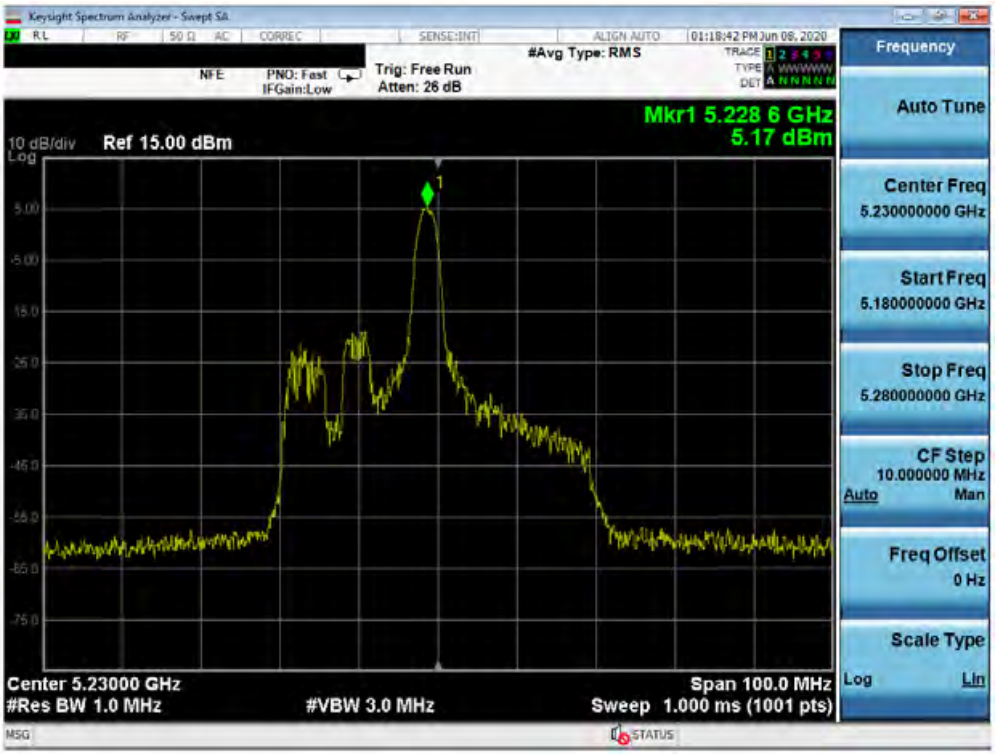
Plot 7-218. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)



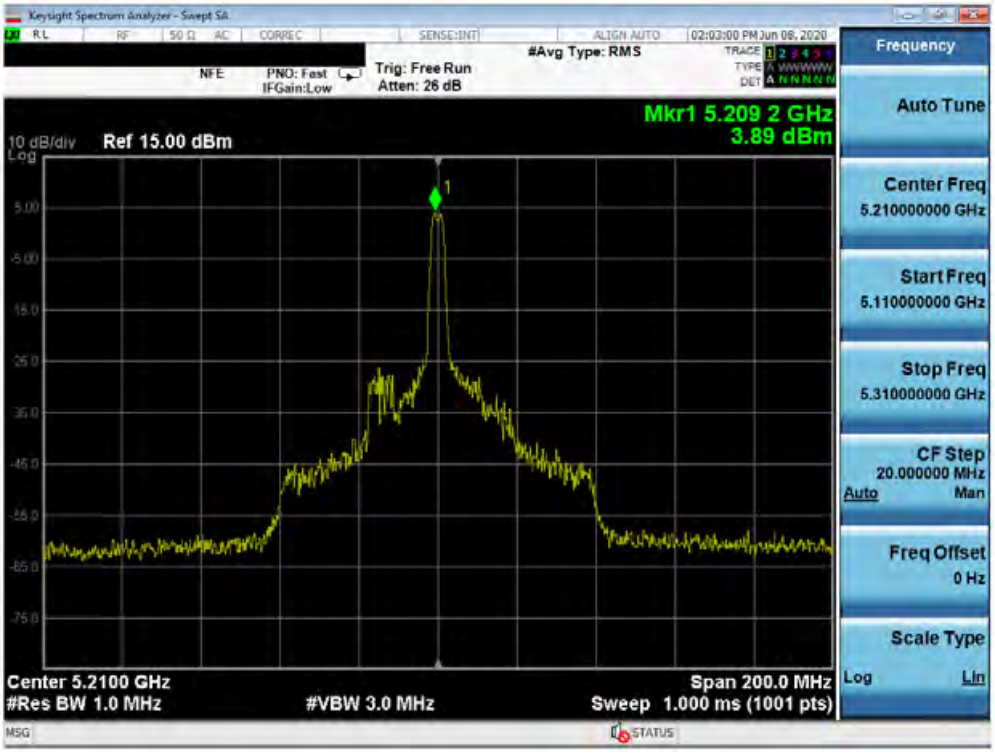
Plot 7-219. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



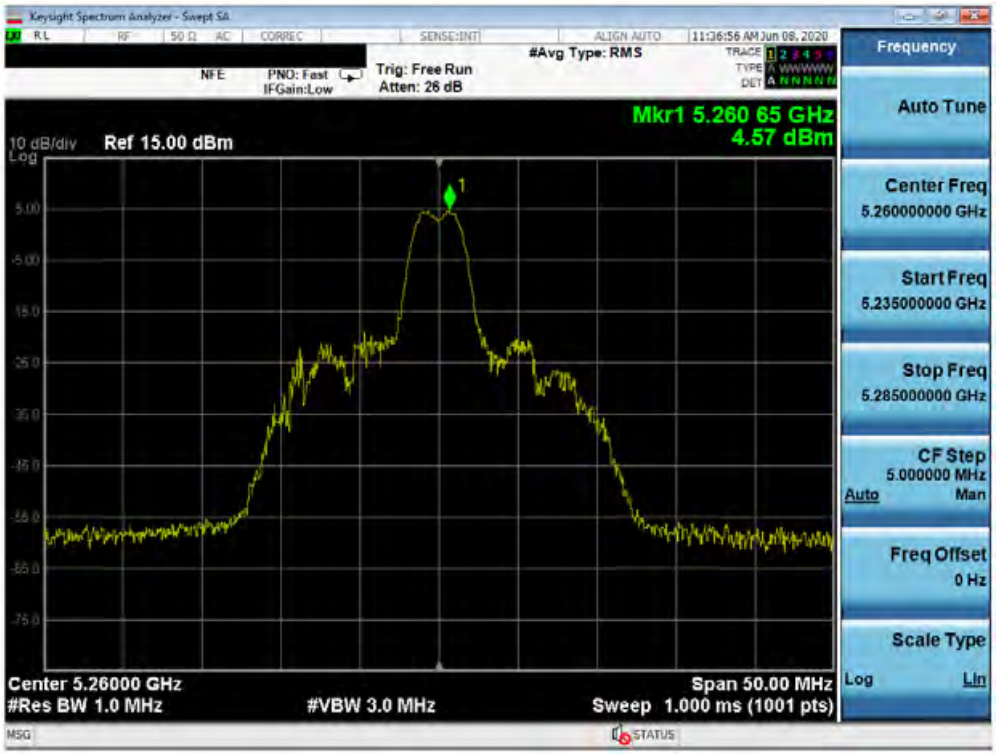
Plot 7-220. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)



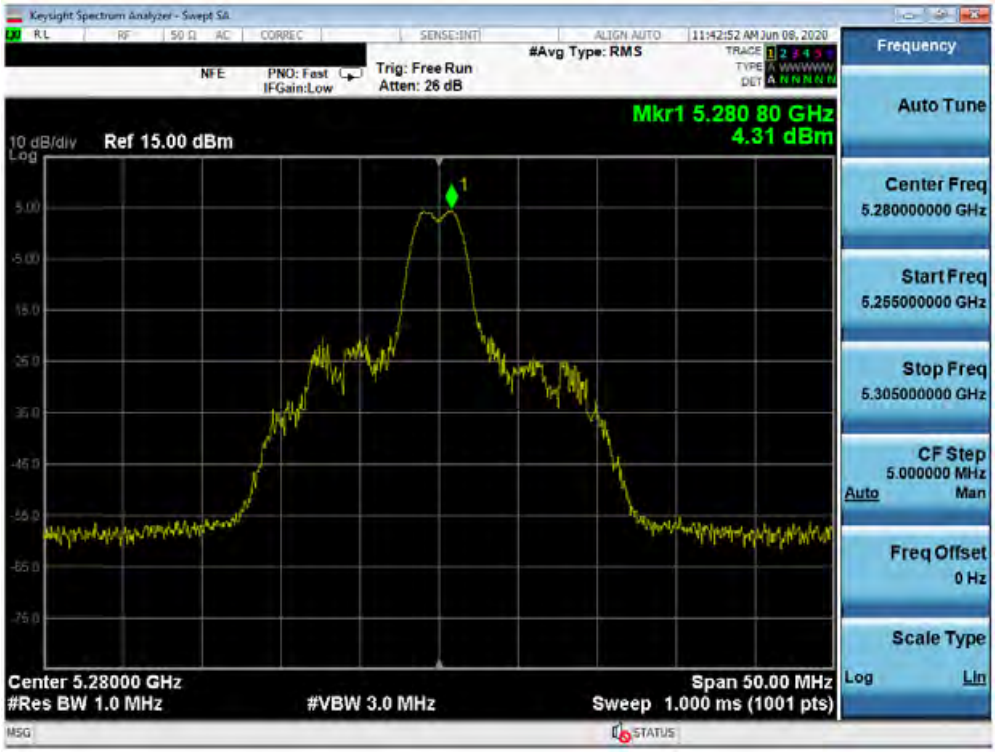
Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



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

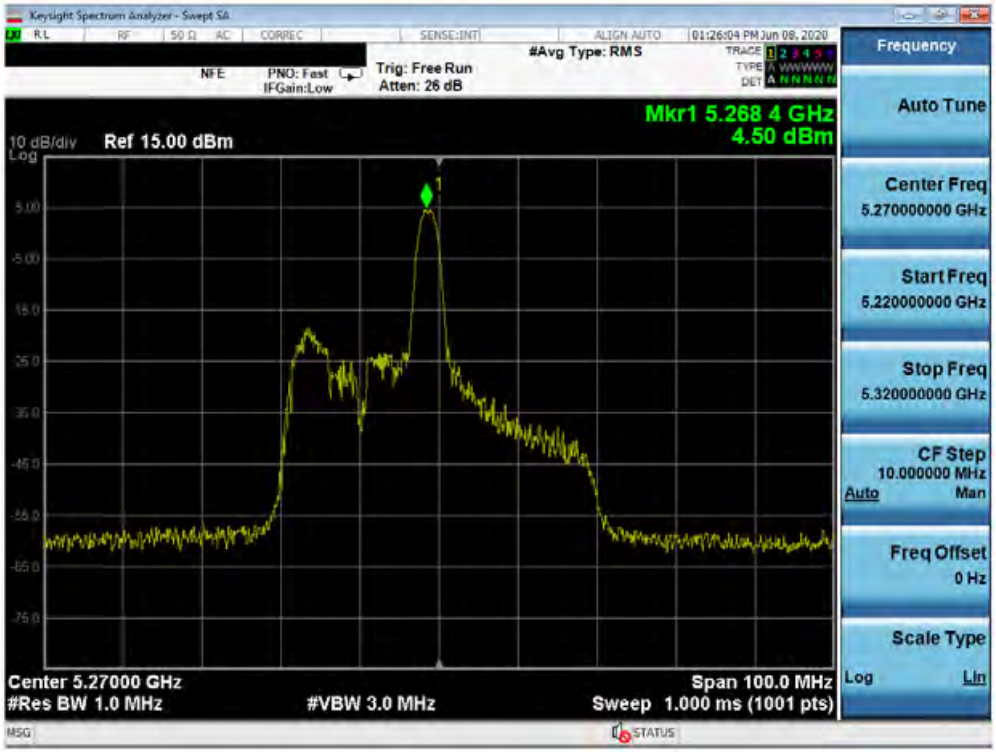


Plot 7-223. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

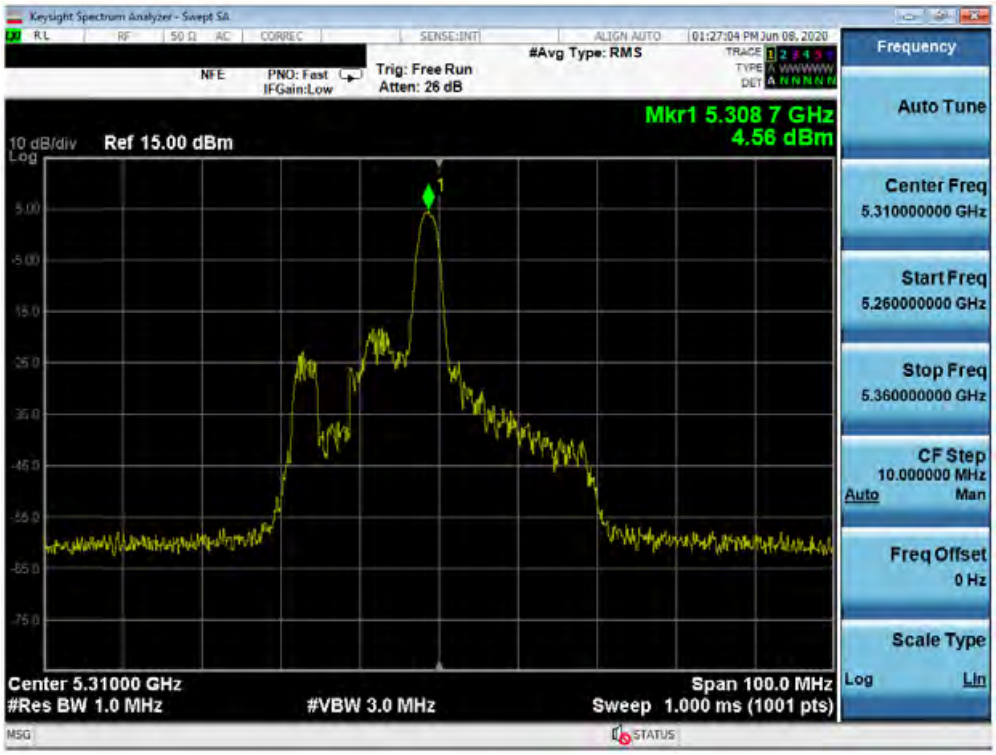


Plot 7-224. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

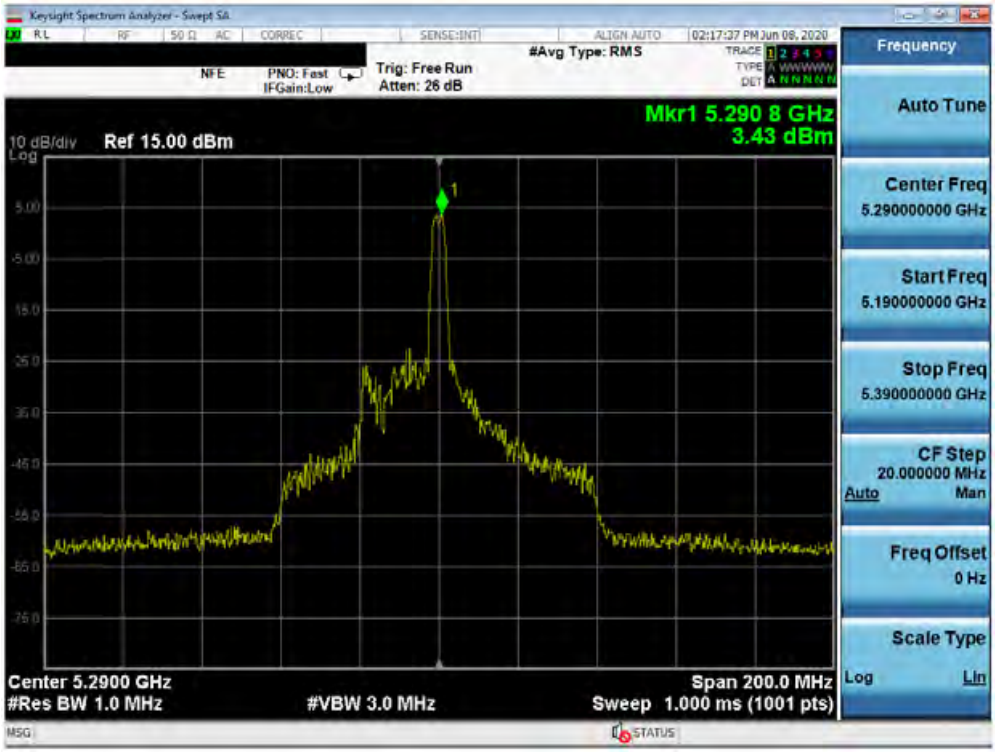
Plot 7-225. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



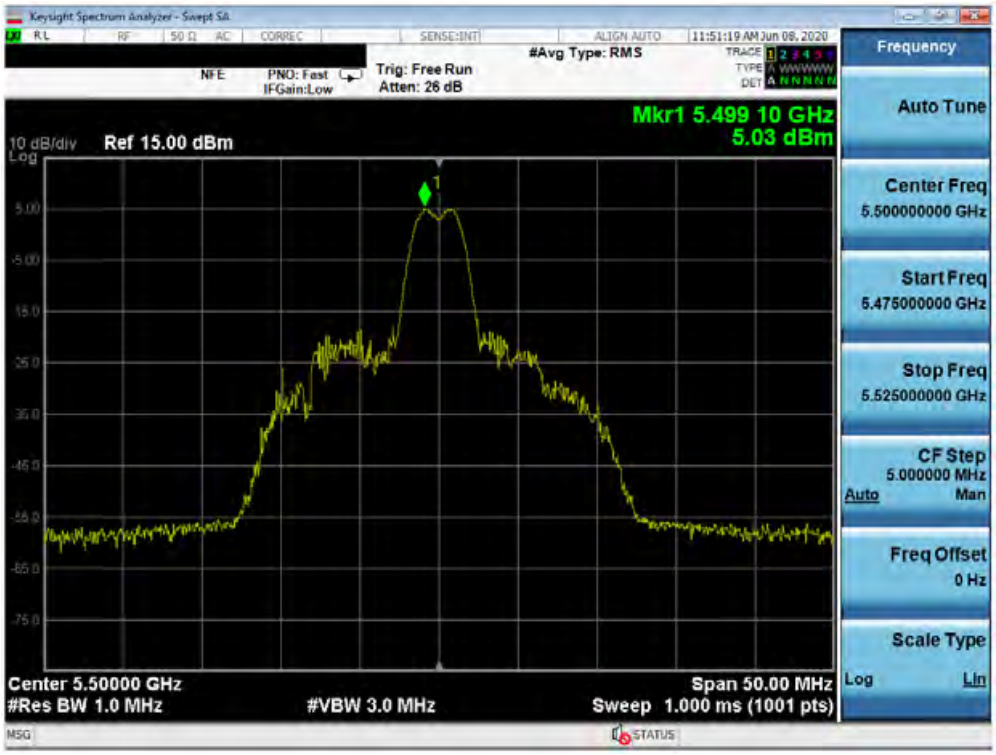
Plot 7-226. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)



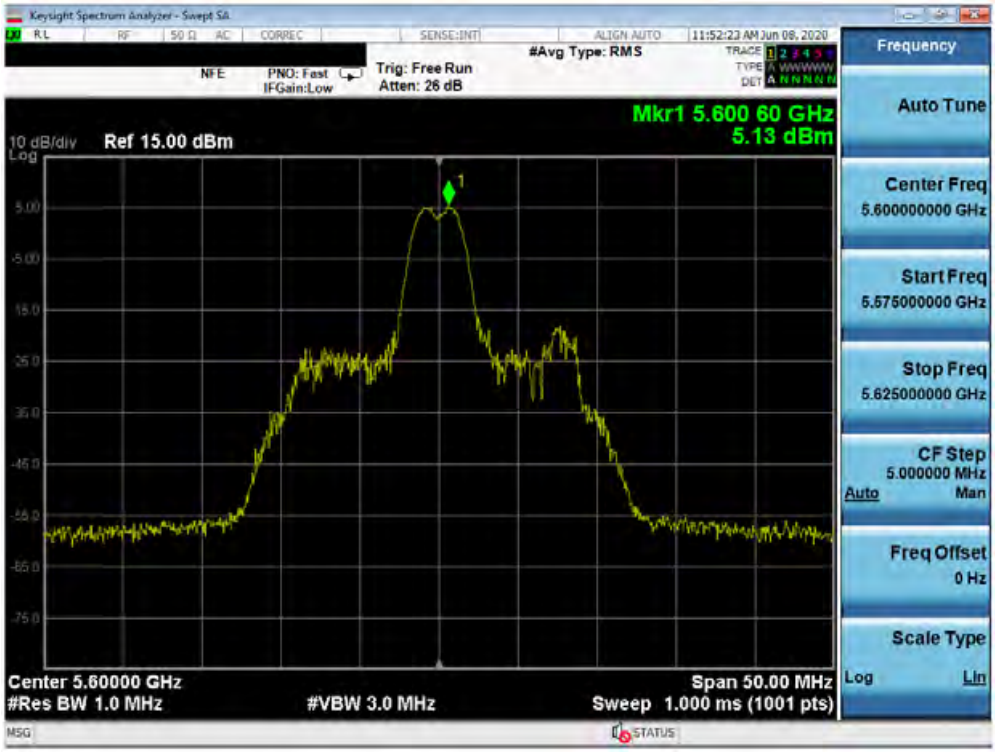
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



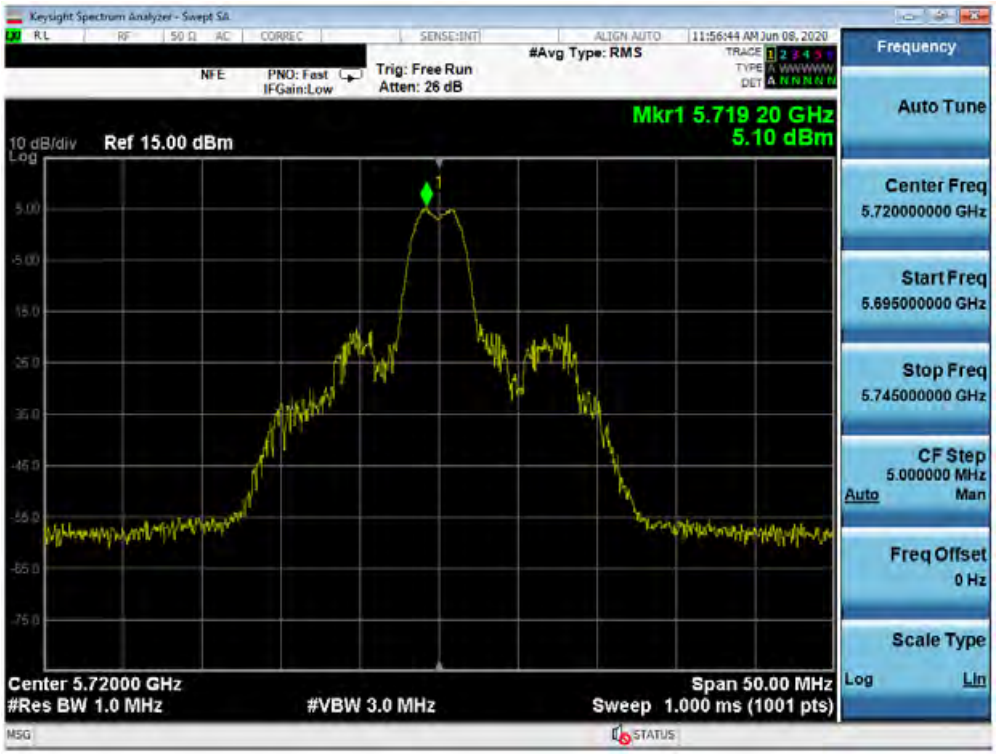
Plot 7-228. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)



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



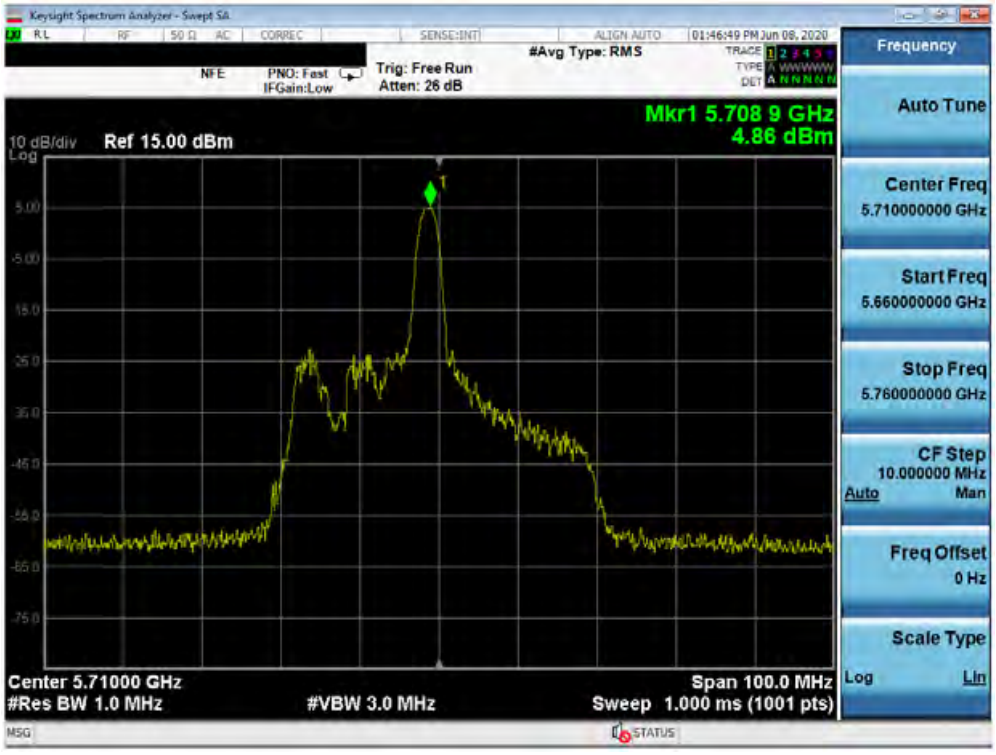
Plot 7-230. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)



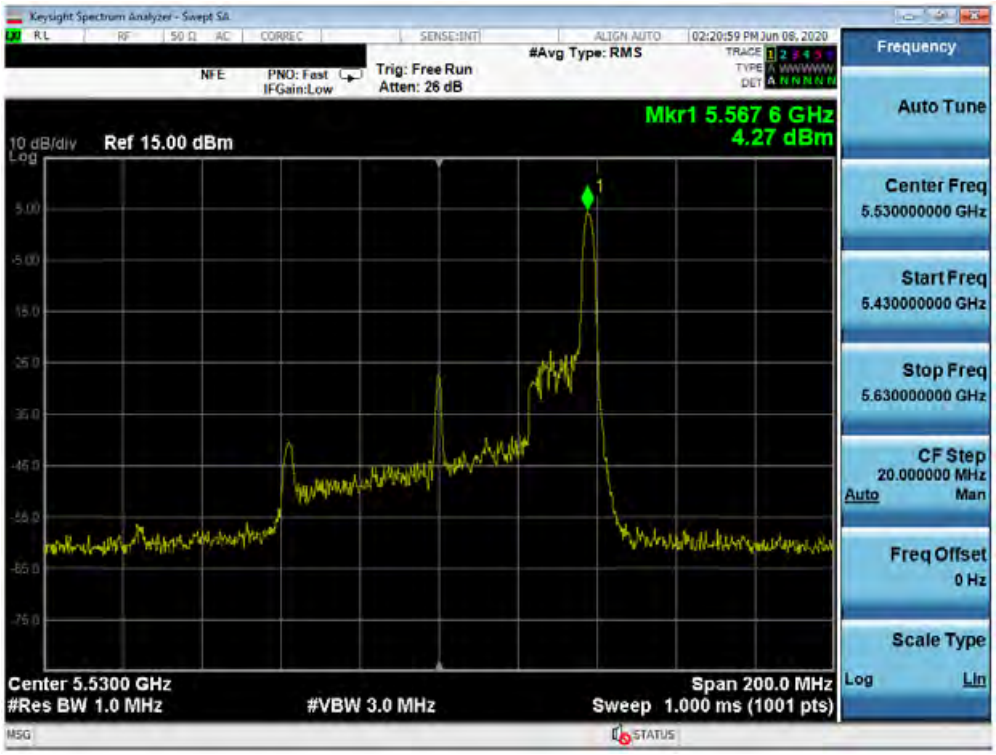
Plot 7-231. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

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

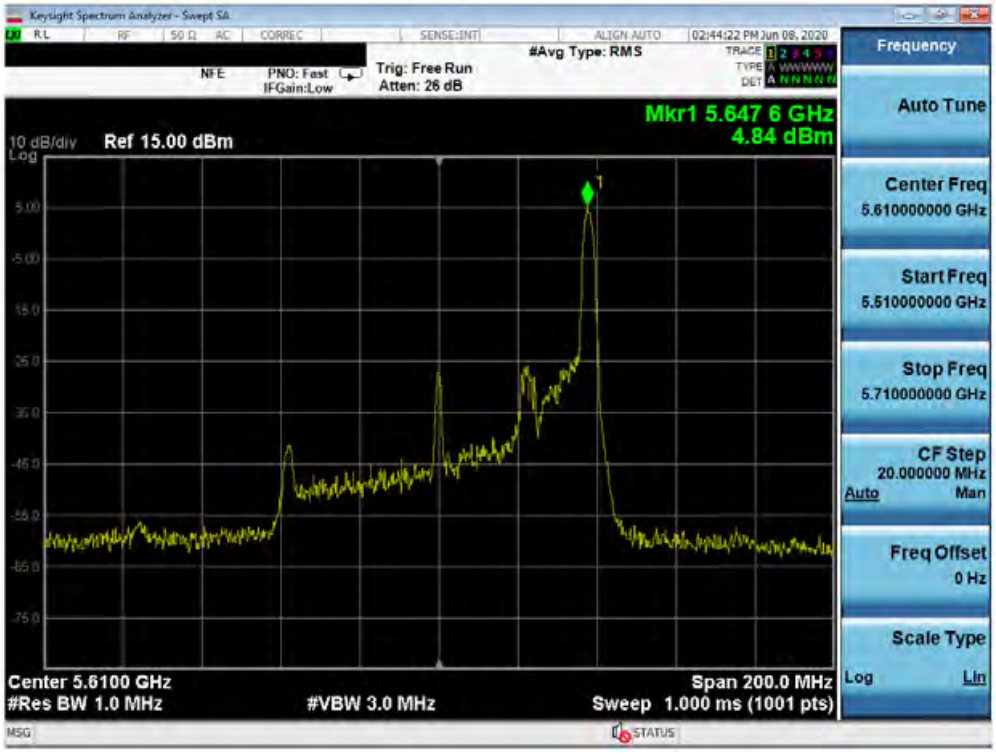
Plot 7-233. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



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

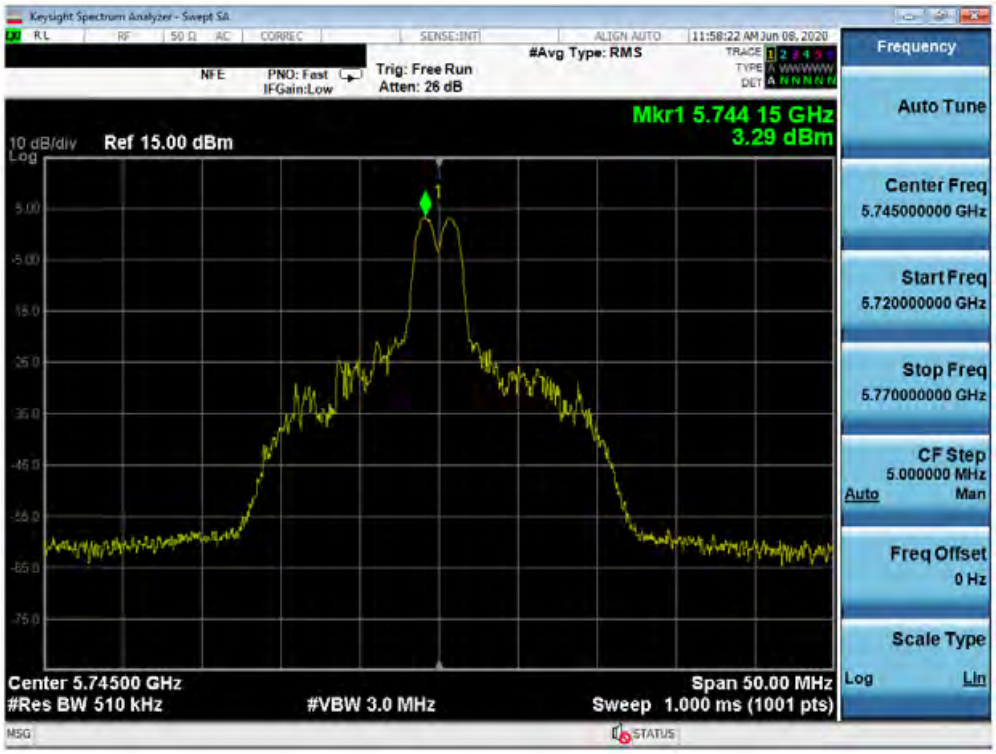


Plot 7-235. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

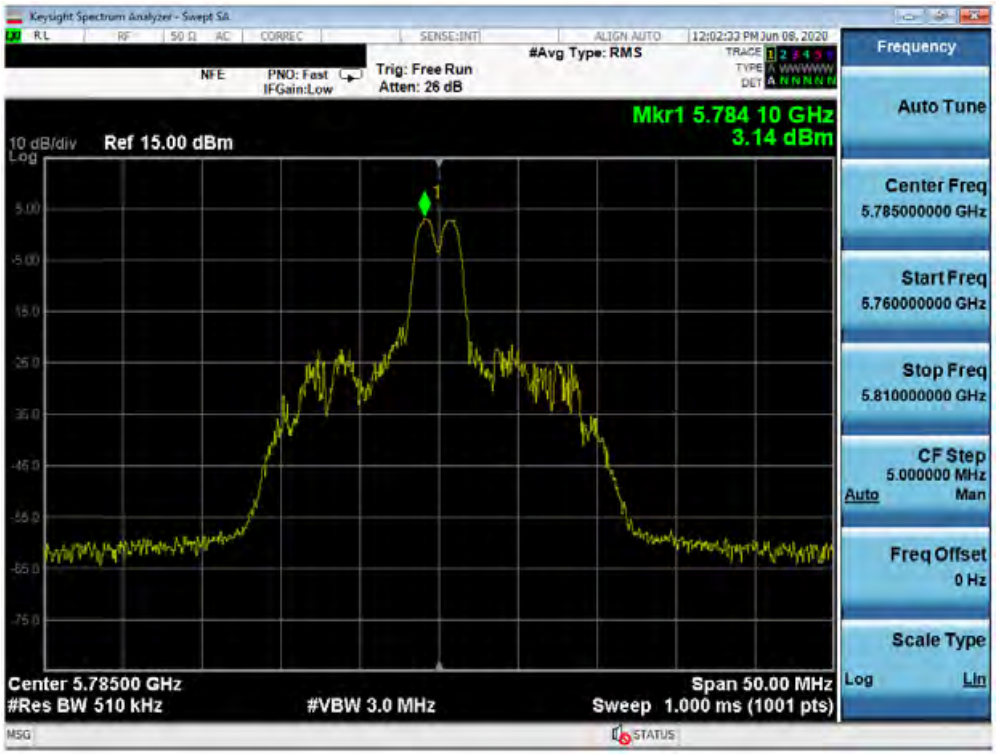


Plot 7-236. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

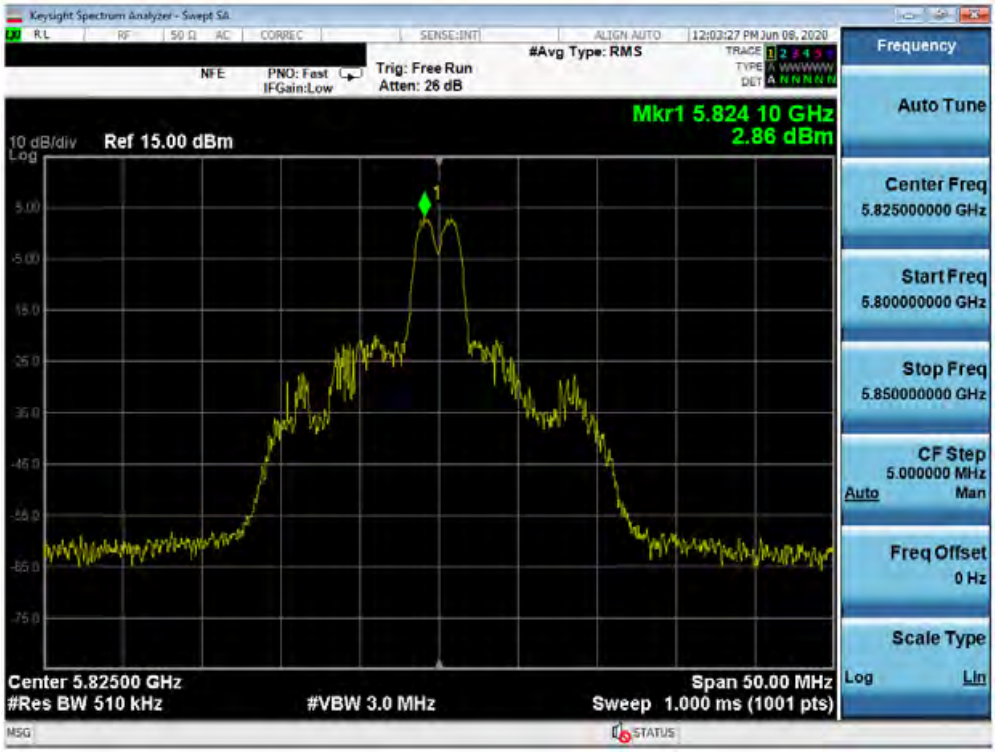
Plot 7-237. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



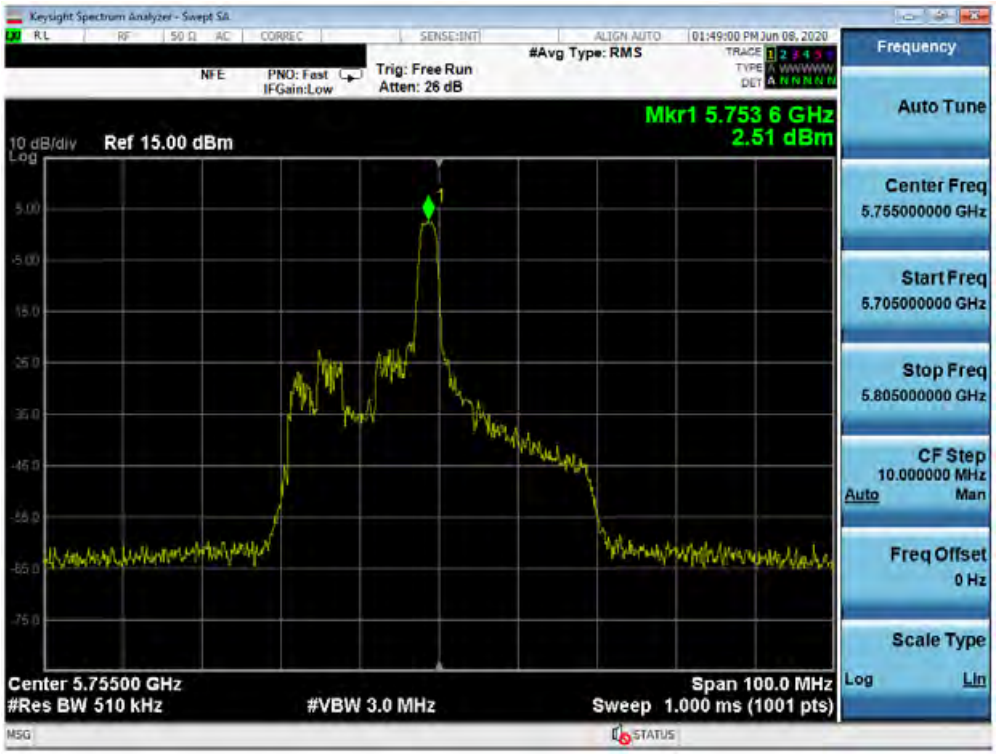
Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



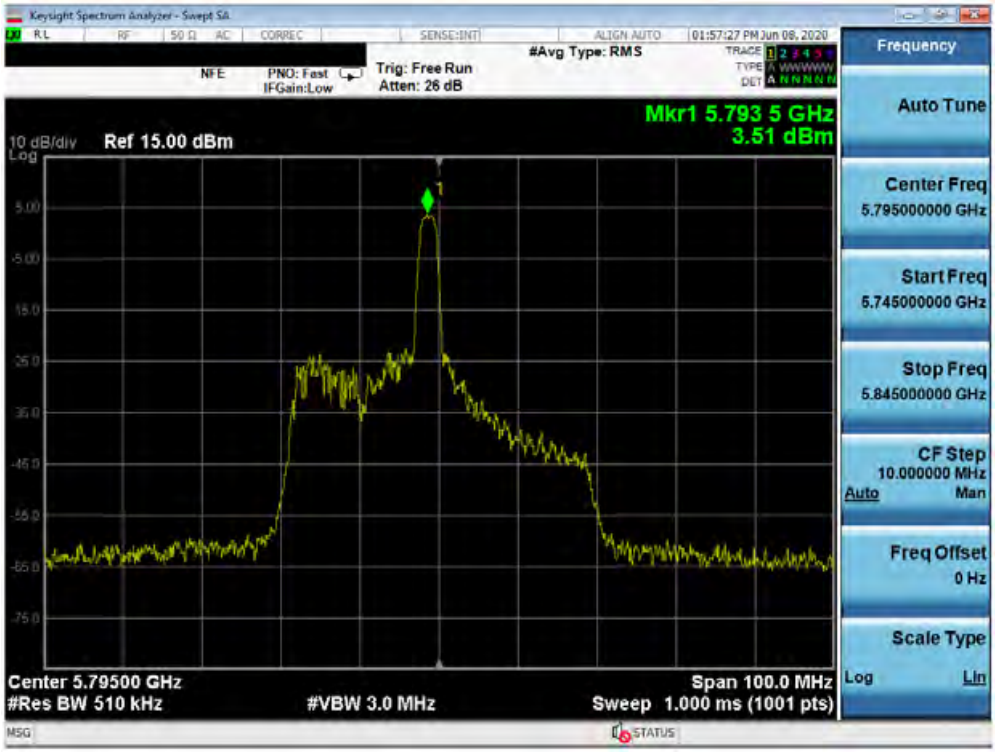
Plot 7-239. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



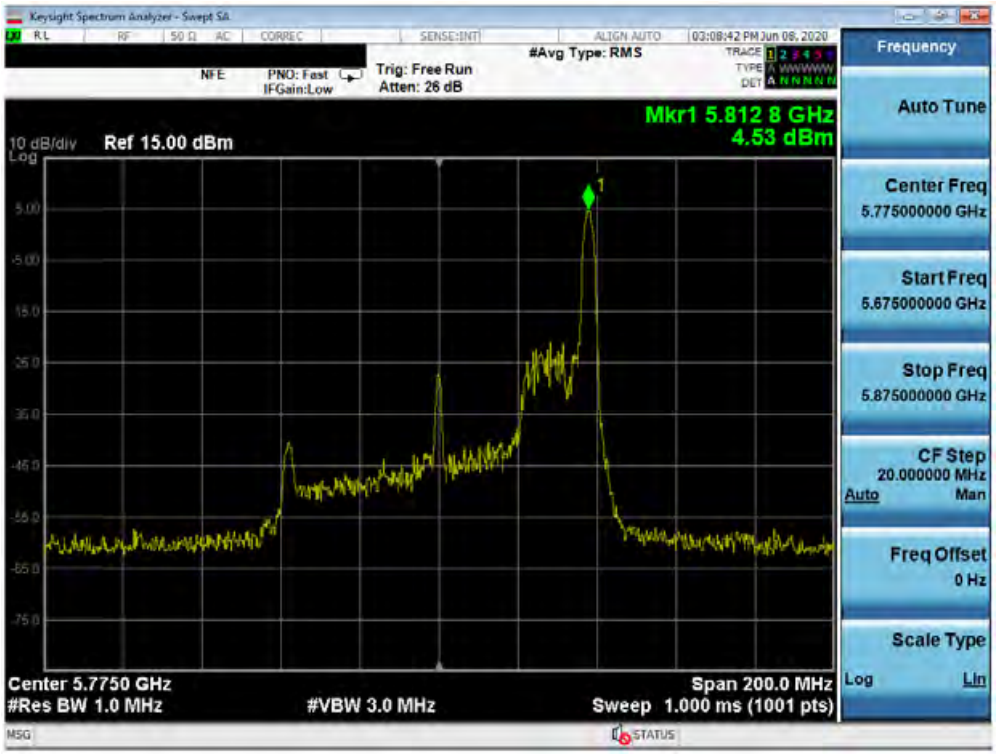
Plot 7-240. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



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



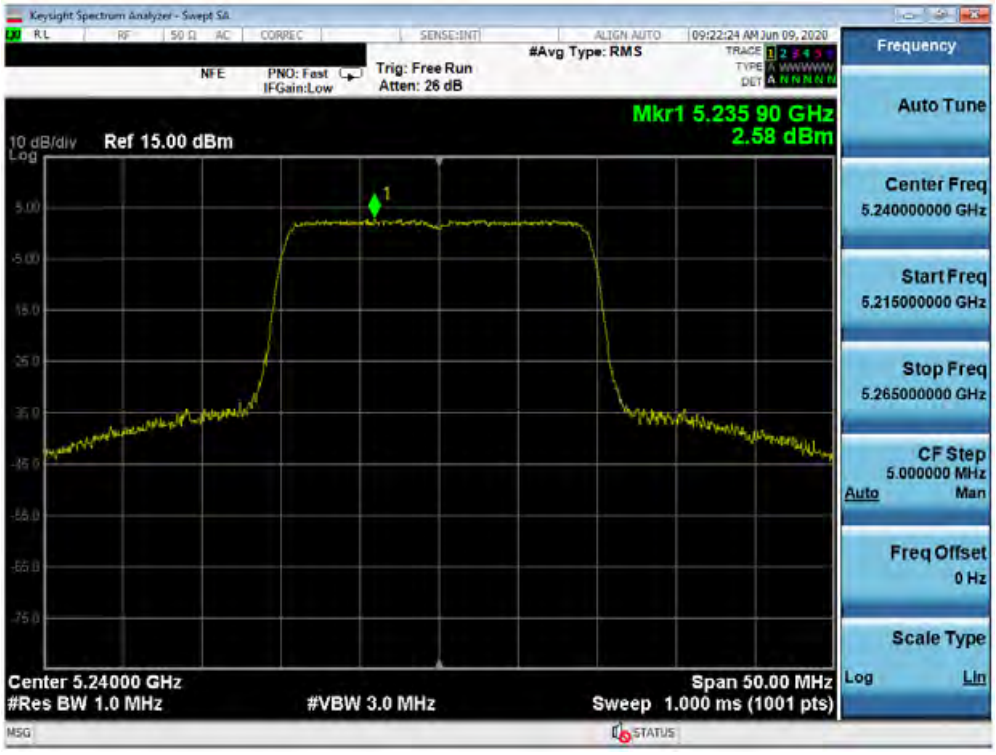
Plot 7-242. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



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

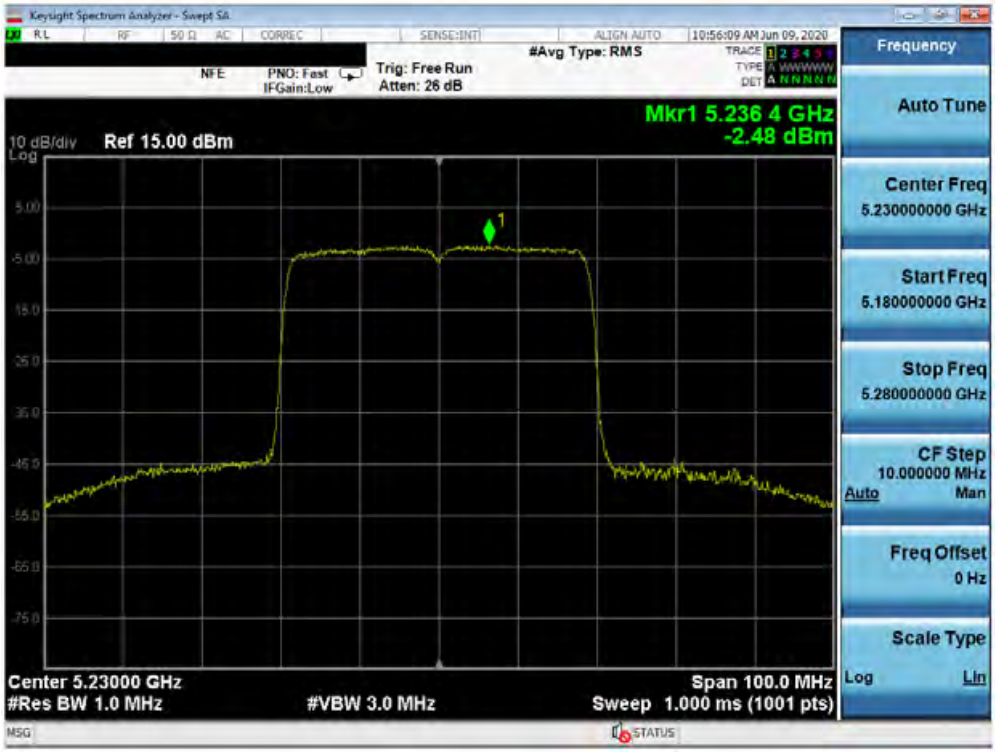
Plot 7-244. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

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

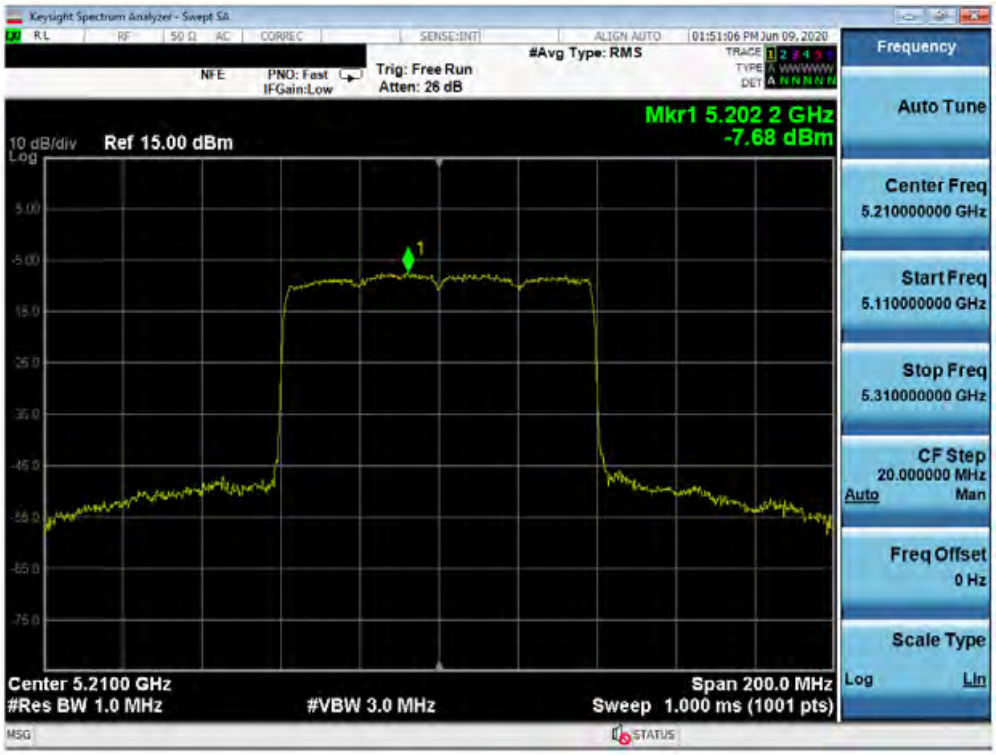


Plot 7-246. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

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



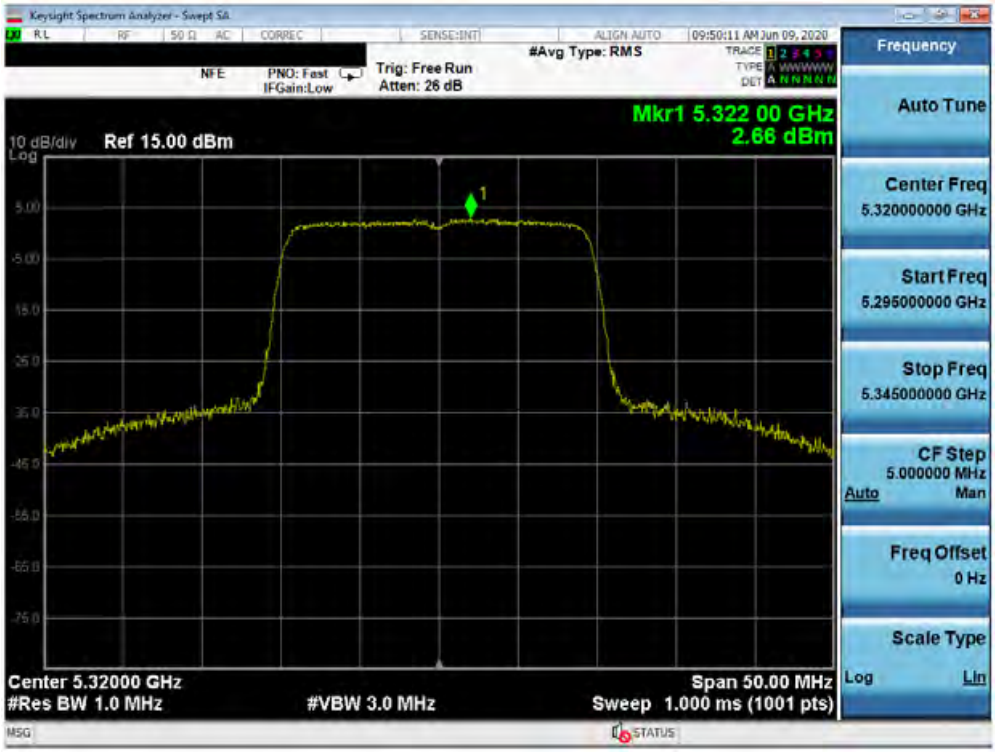
Plot 7-248. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)



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

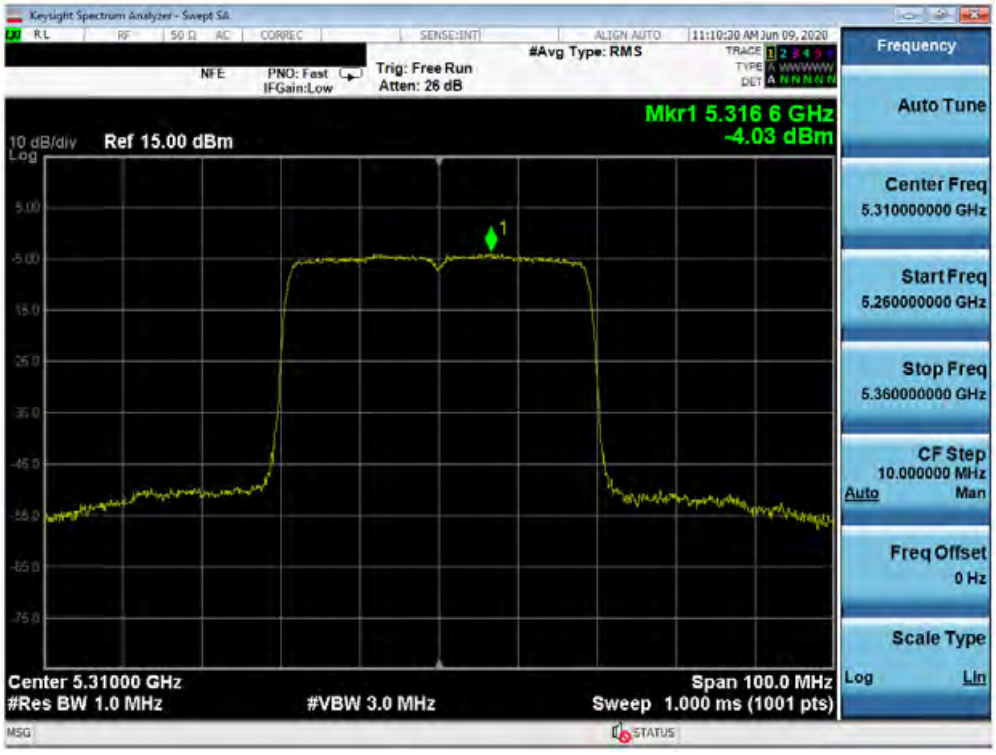
Plot 7-250. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

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

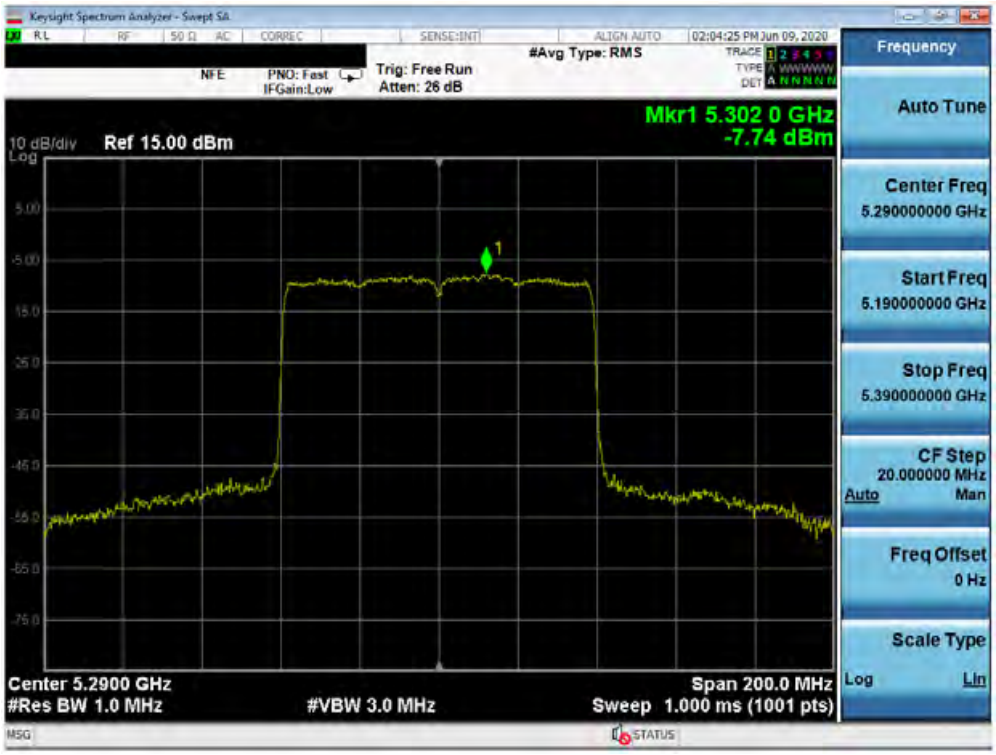


Plot 7-252. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

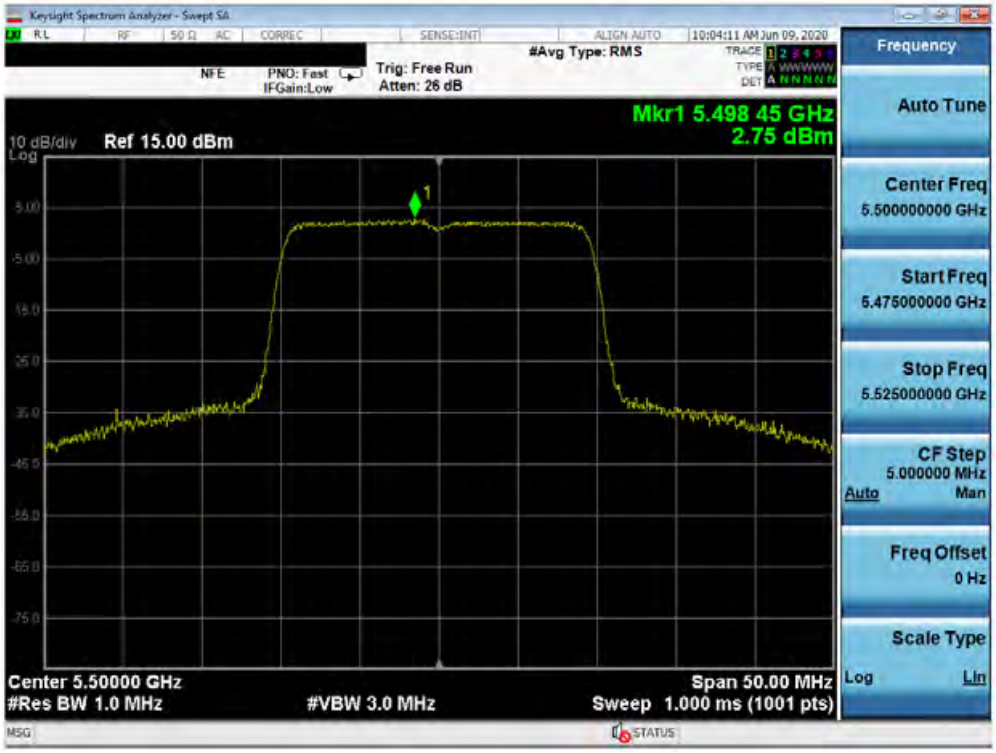
Plot 7-253. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)



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

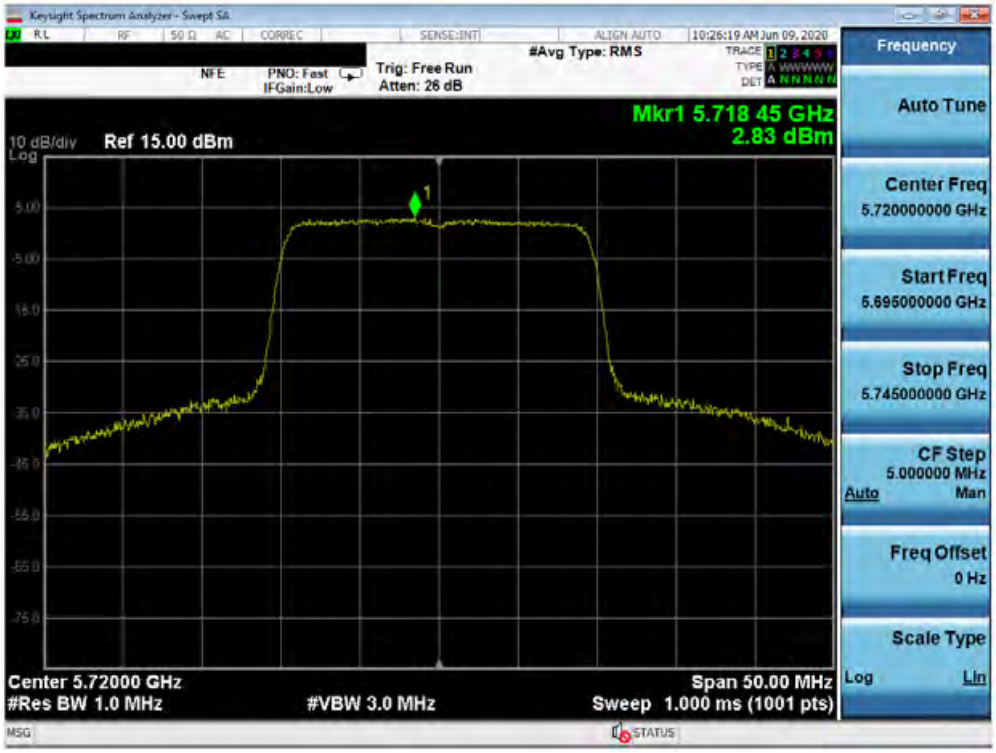


Plot 7-255. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)



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

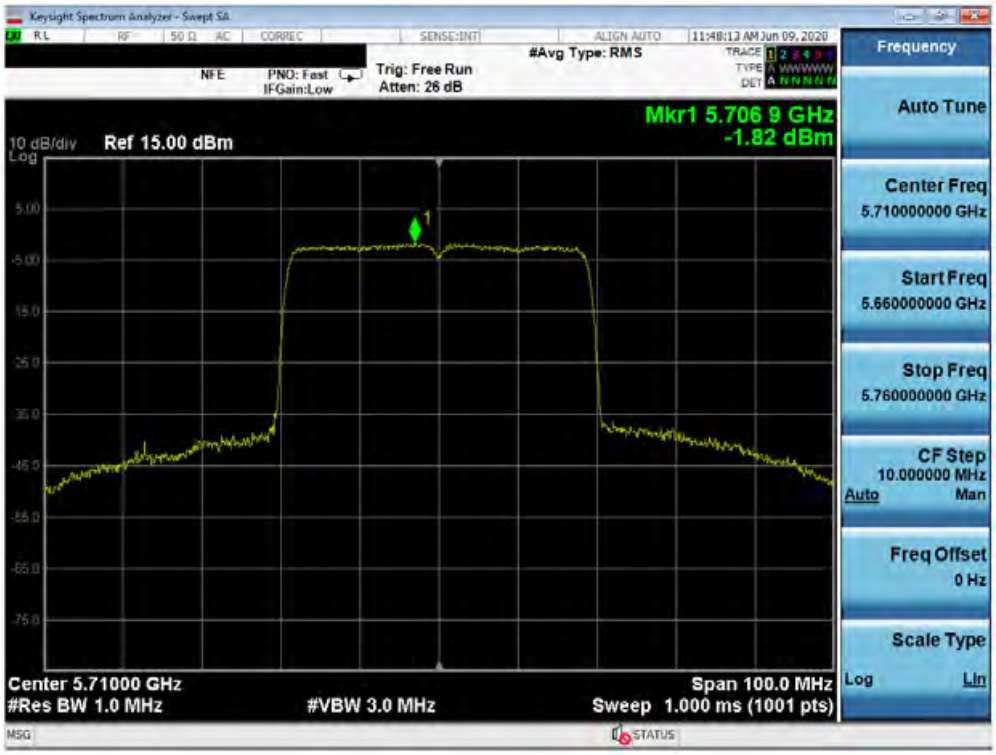
Plot 7-257. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)



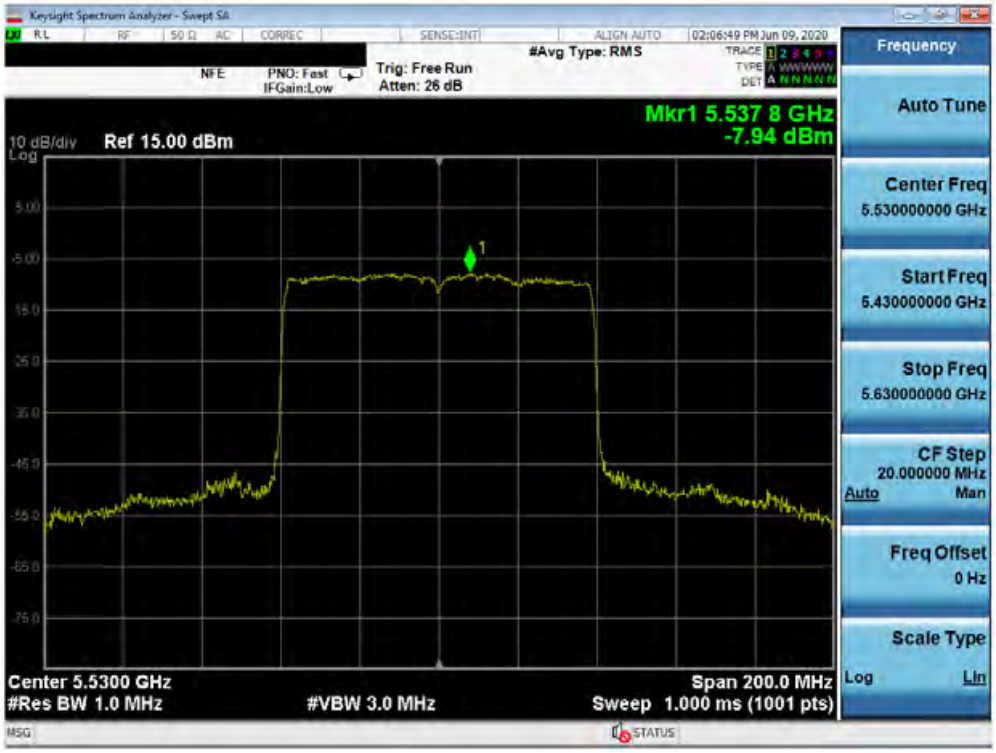
Plot 7-258. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

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

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



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



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

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

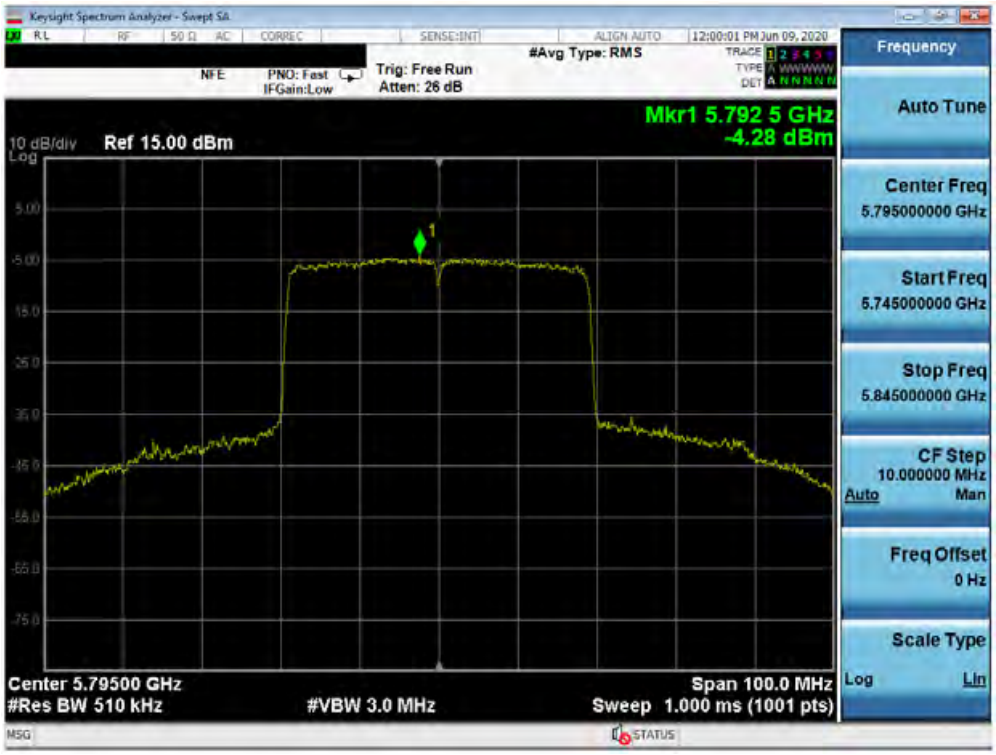
Plot 7-264. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

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

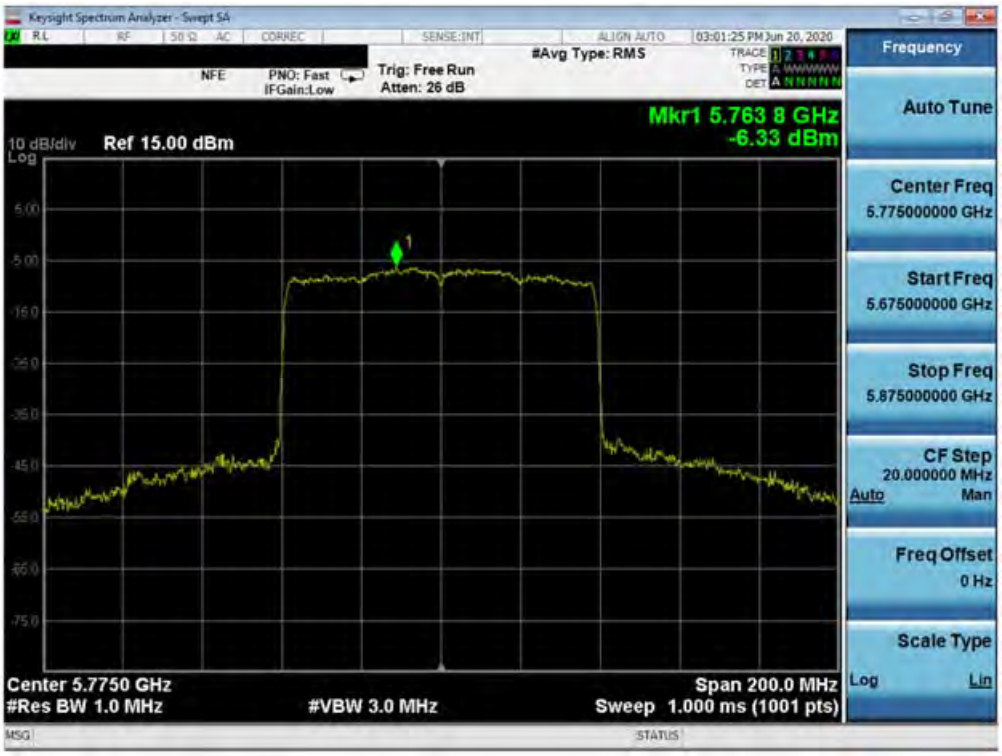
Plot 7-266. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

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

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

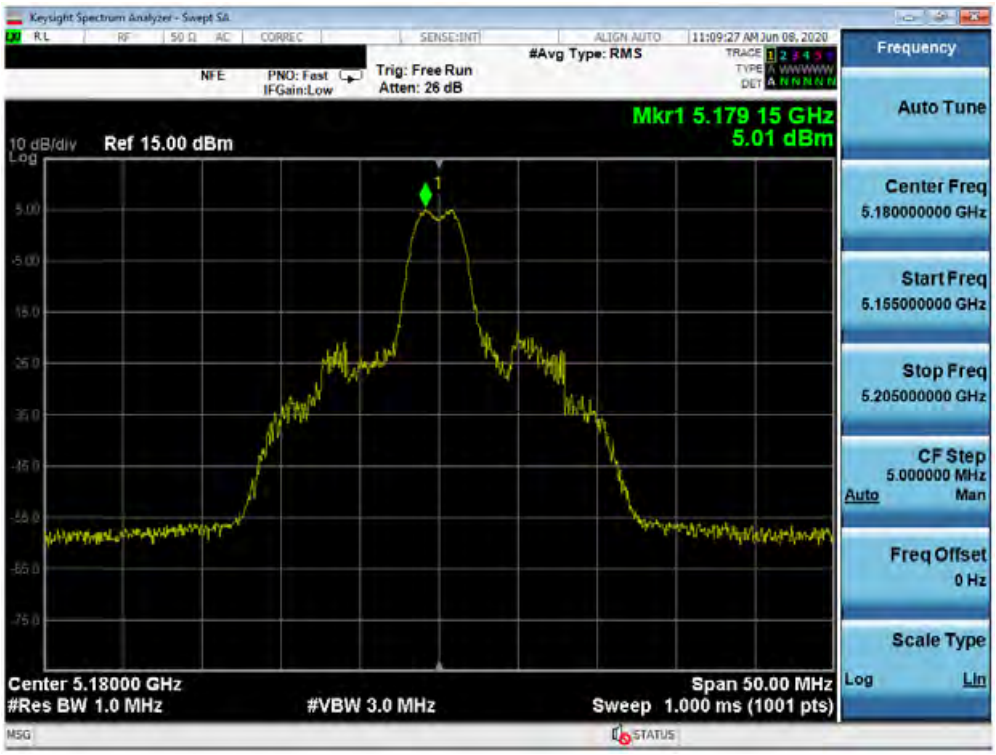


Plot 7-269. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

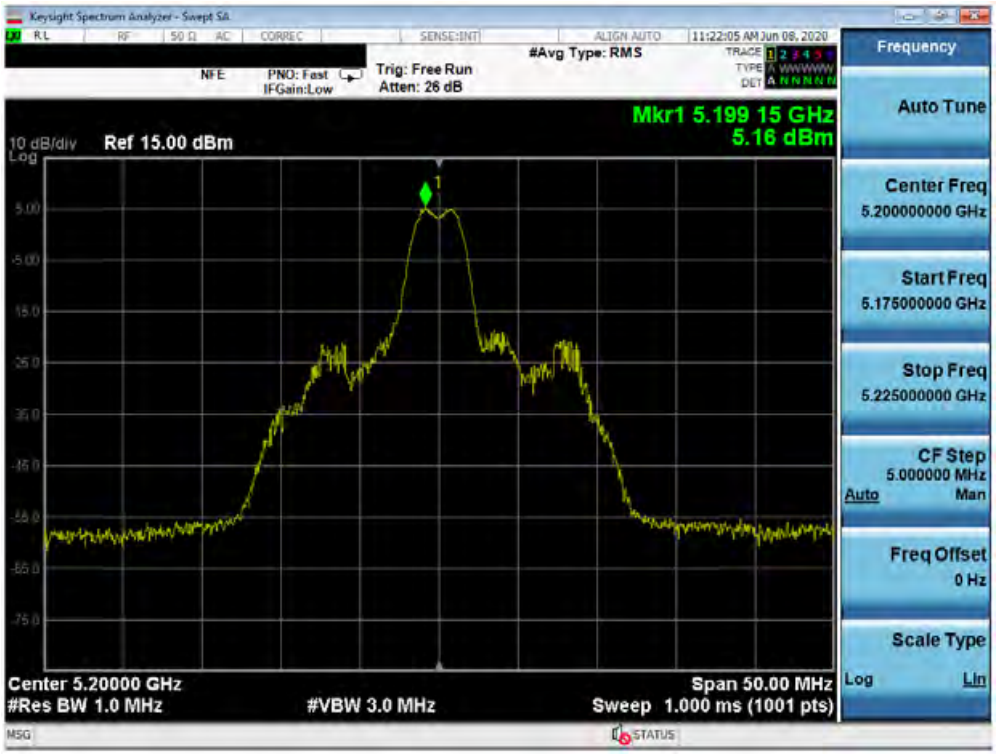


Plot 7-270. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

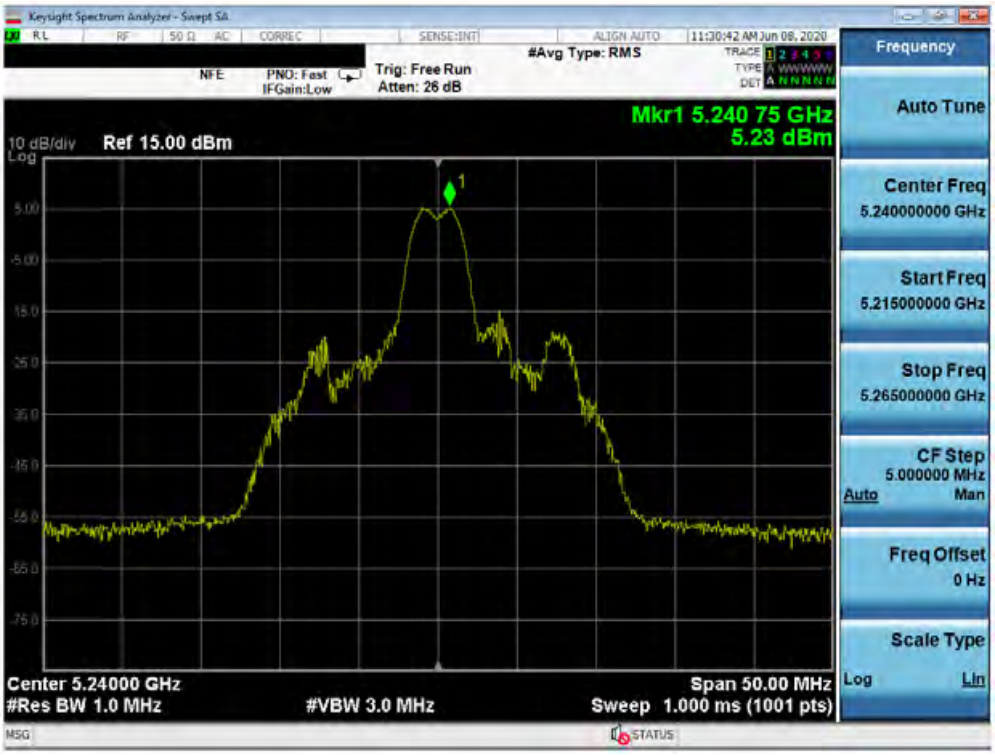
MIMO Antenna-2 Power Spectral Density Measurements (26 Tones)



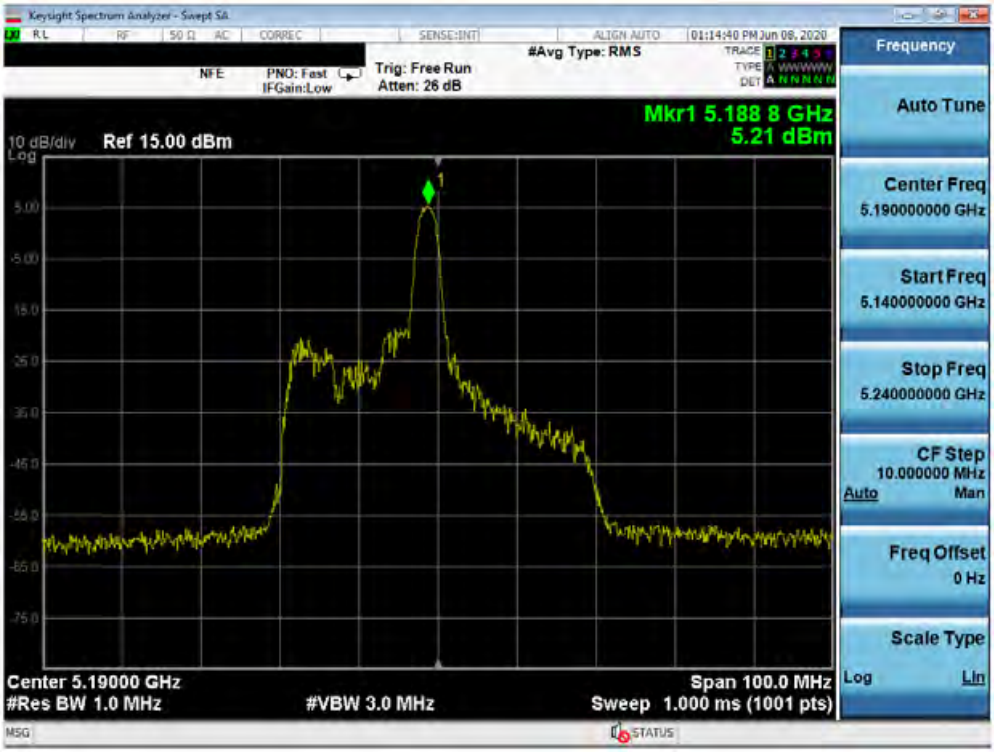
Plot 7-271. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



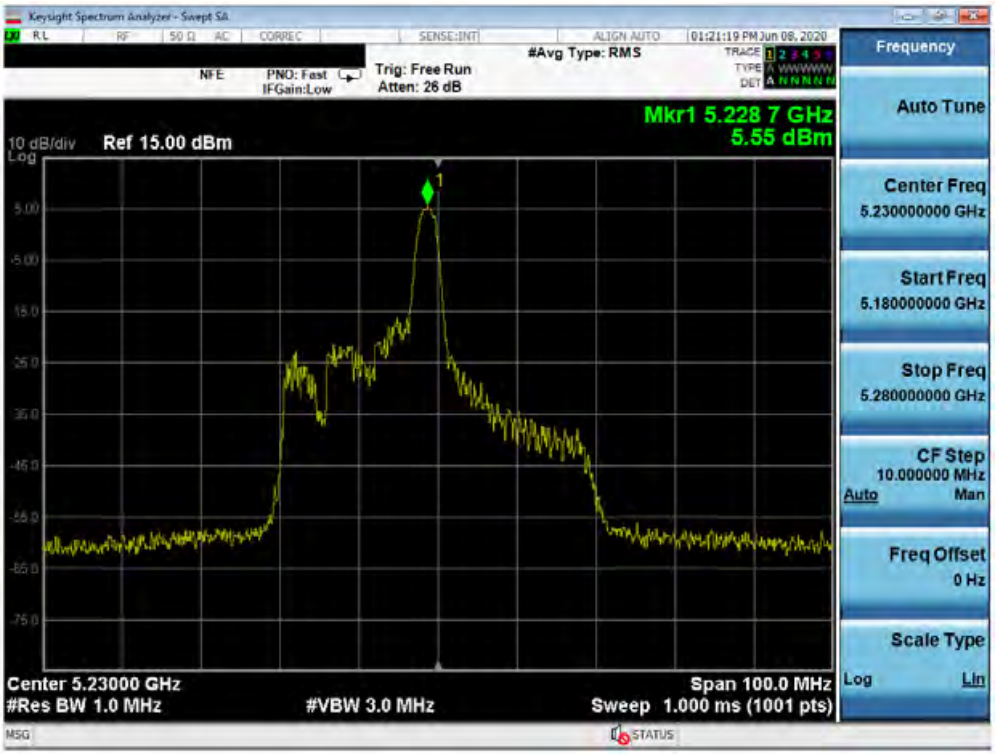
Plot 7-272. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)



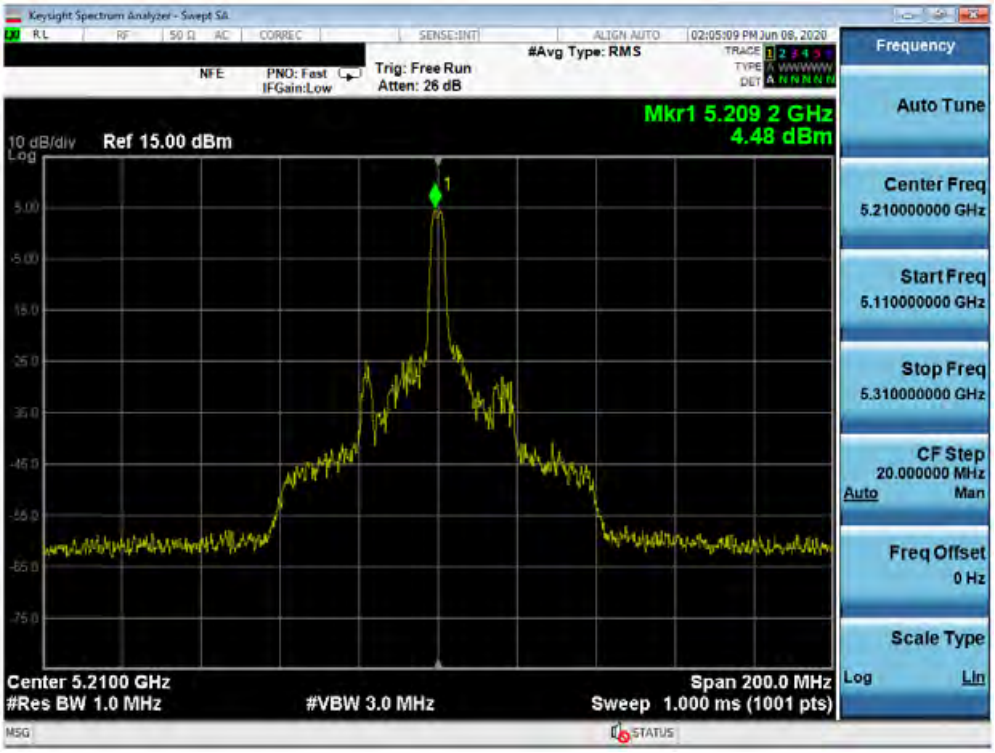
Plot 7-273. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



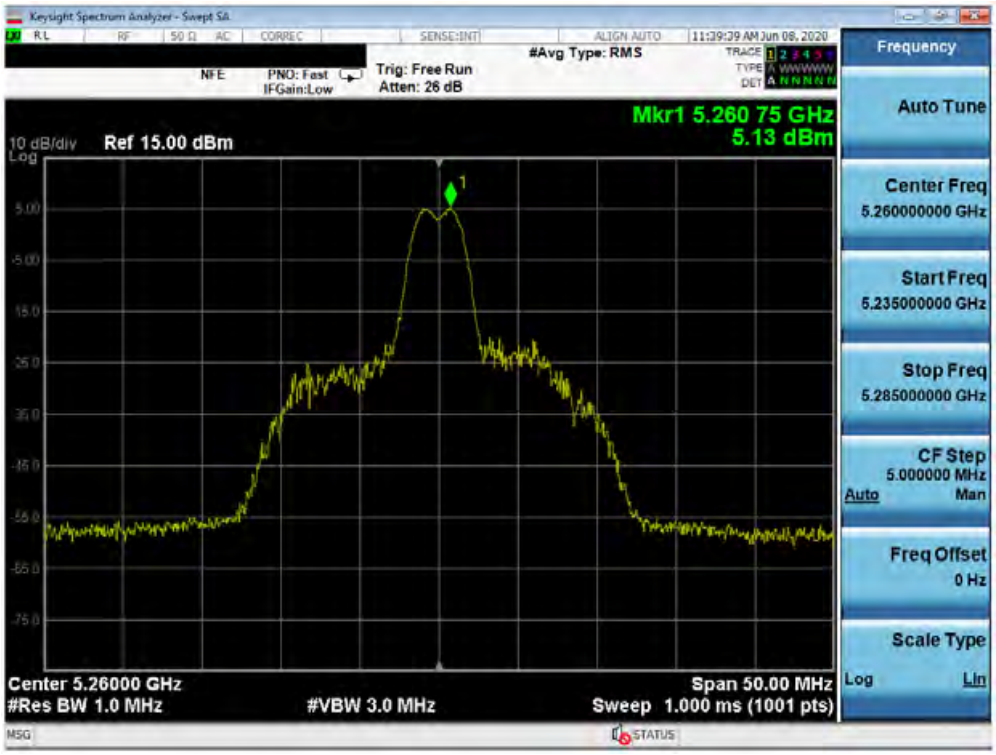
Plot 7-274. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)



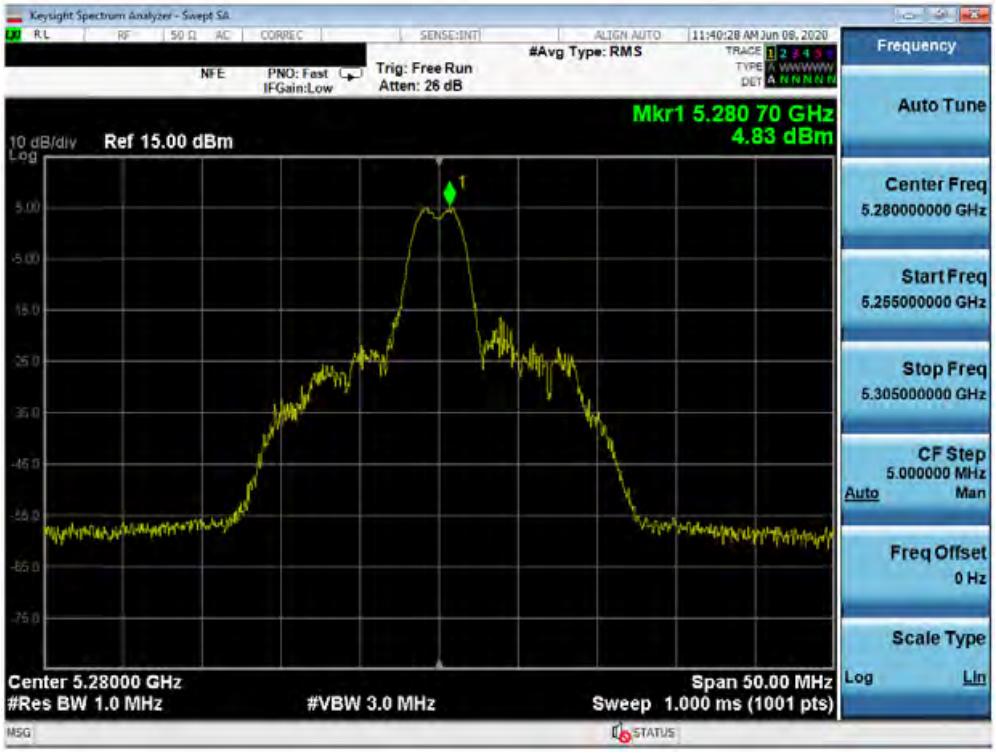
Plot 7-275. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



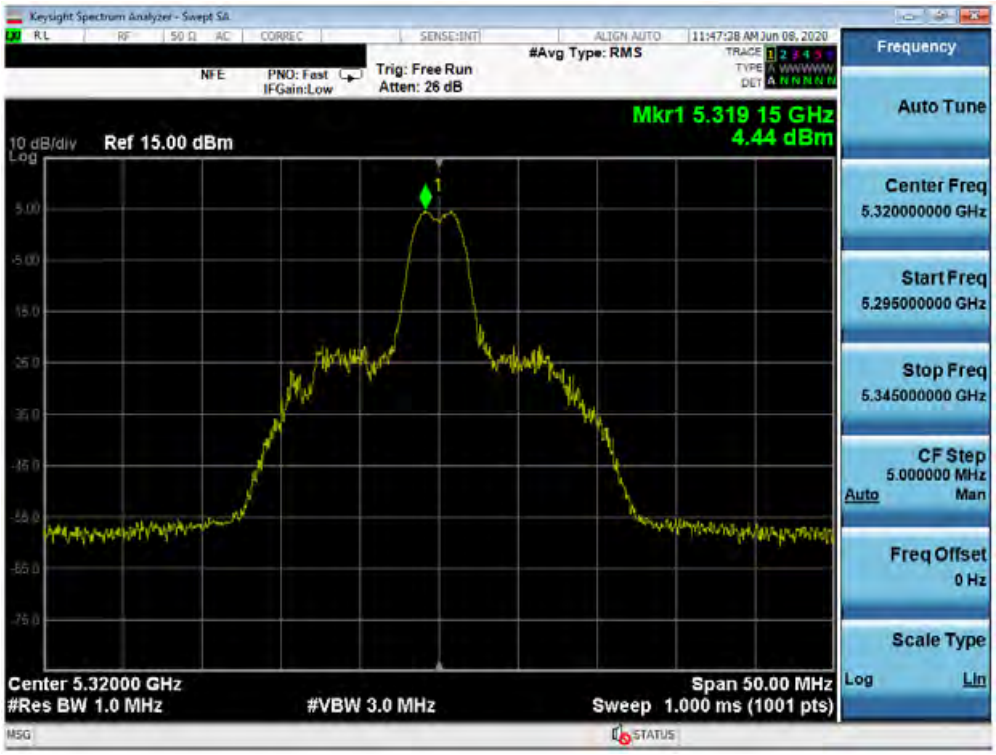
Plot 7-276. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)



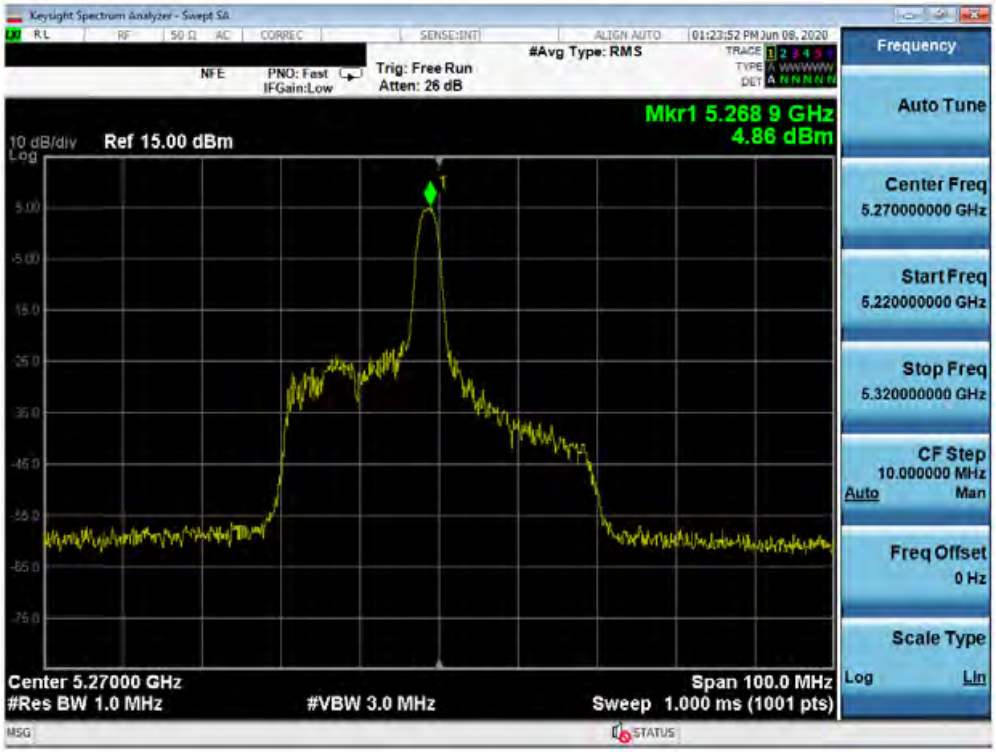
Plot 7-277. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



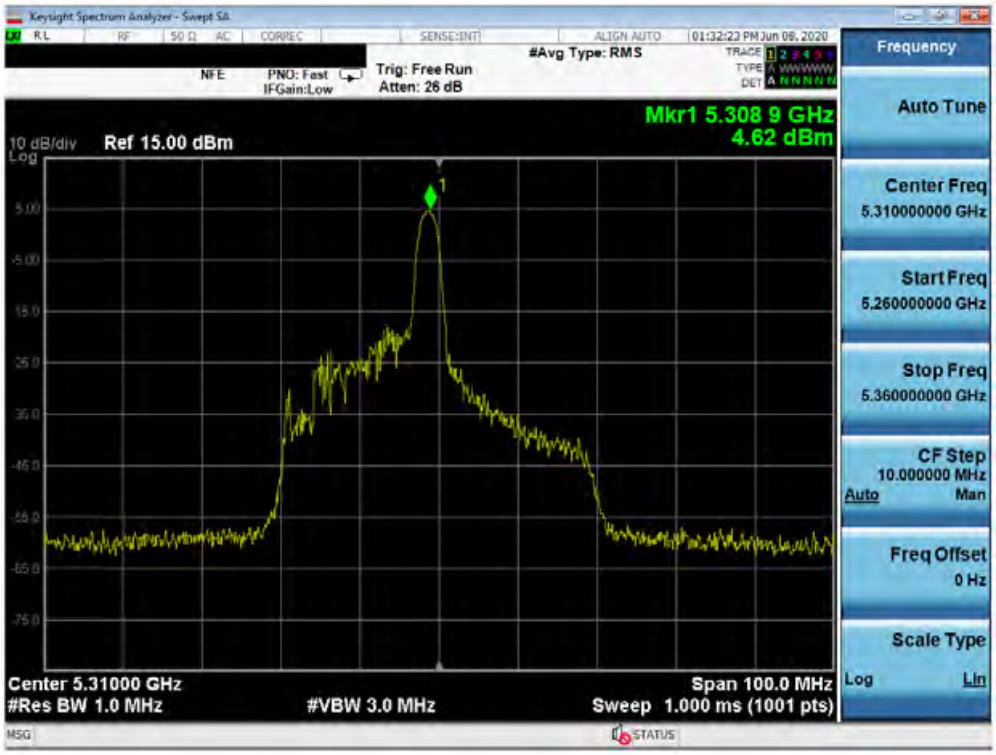
Plot 7-278. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)



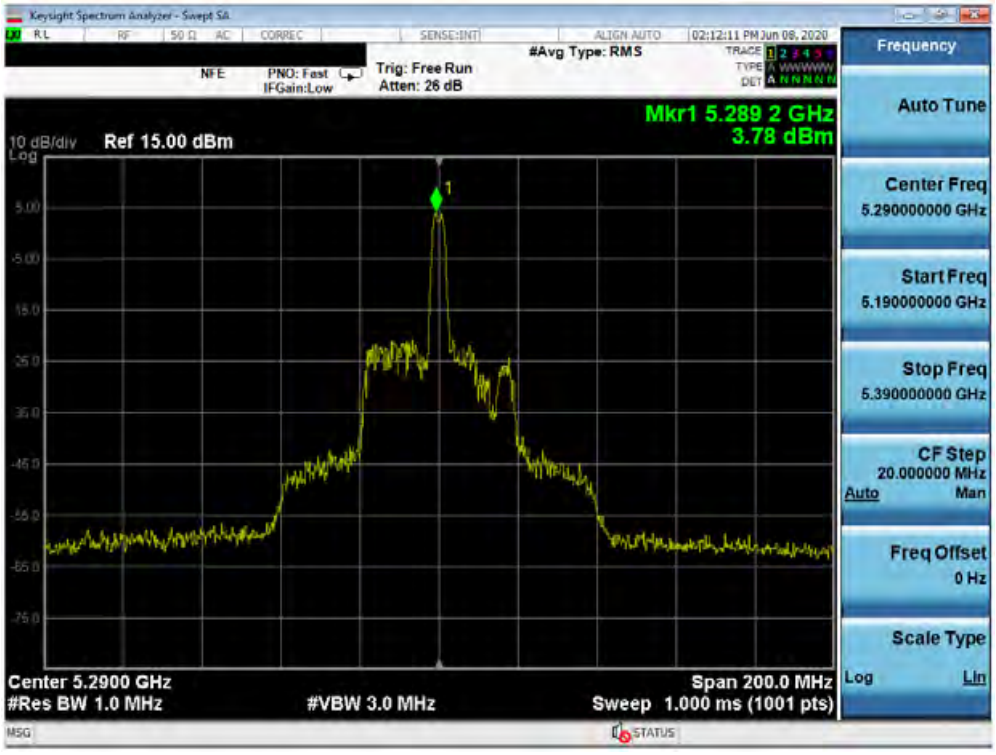
Plot 7-279. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



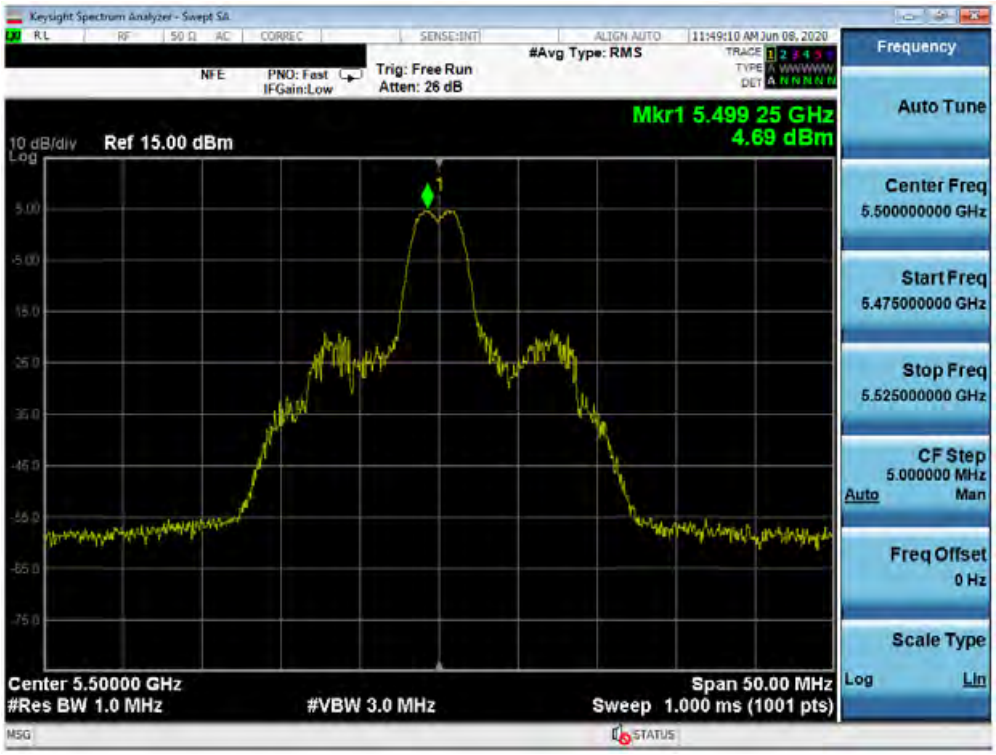
Plot 7-280. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)



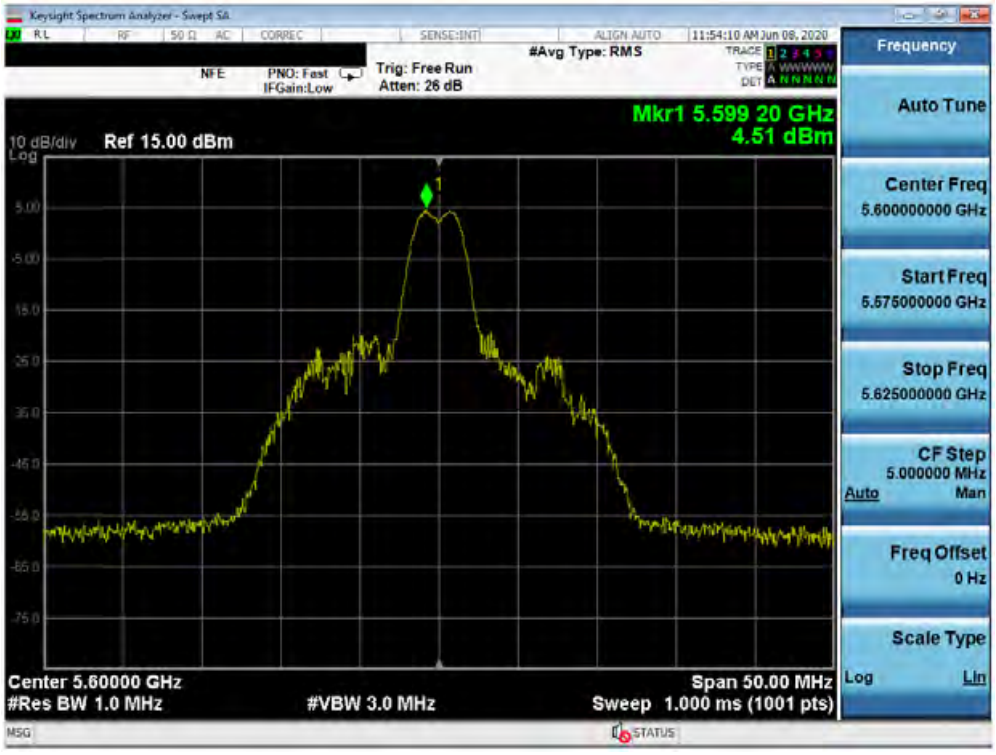
Plot 7-281. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



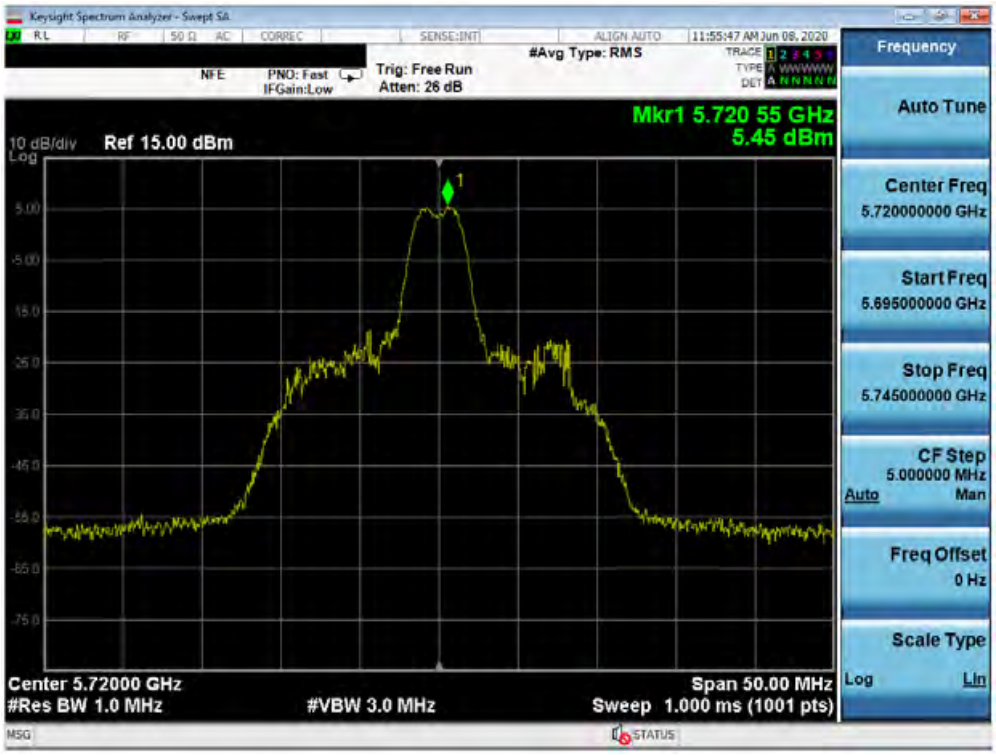
Plot 7-282. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)



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

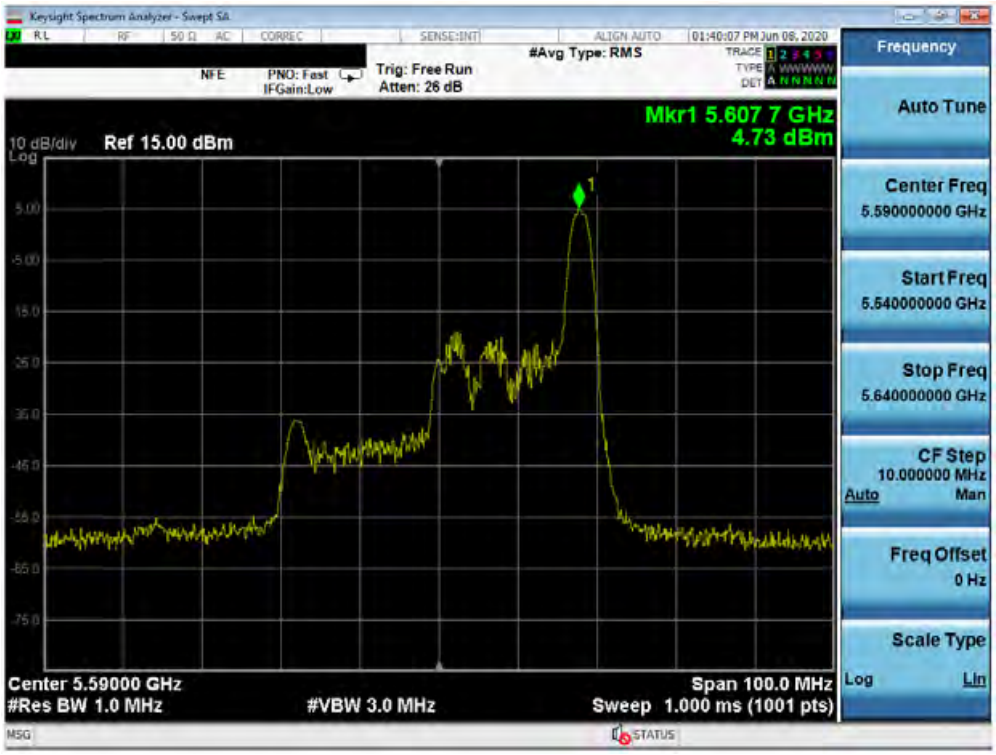


Plot 7-284. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

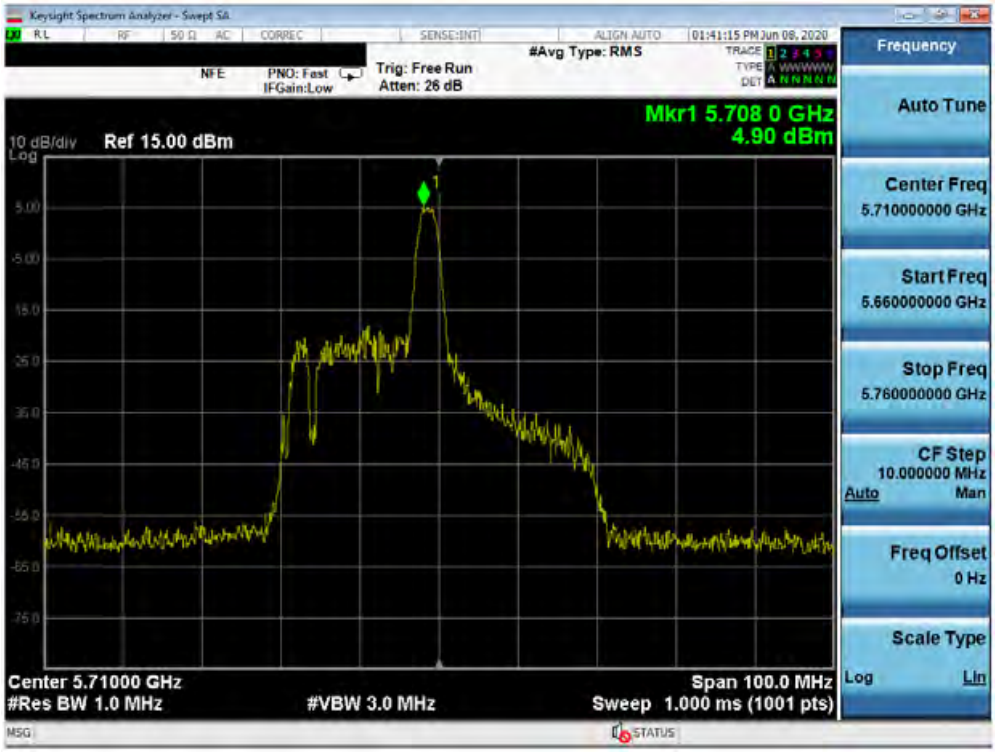


Plot 7-285. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

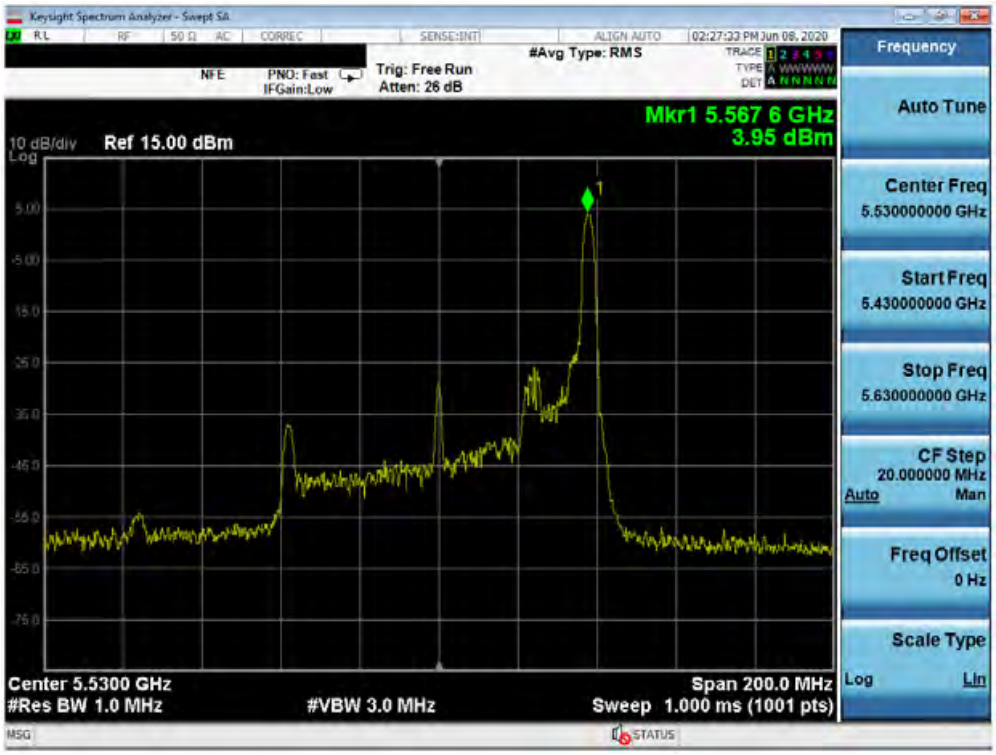
Plot 7-286. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)



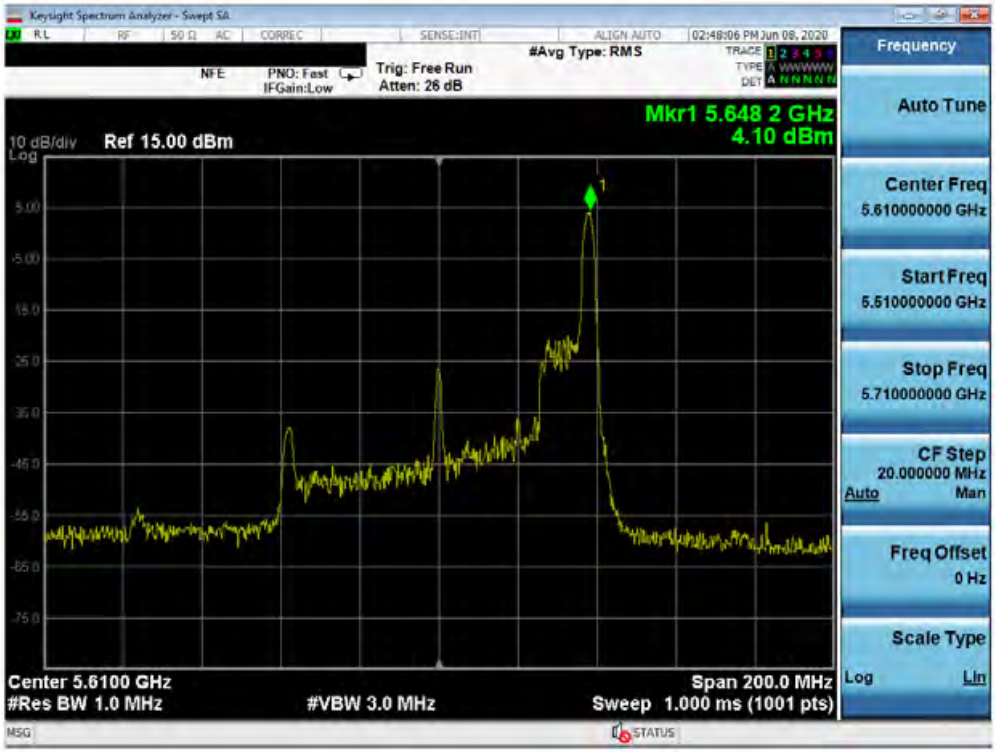
Plot 7-287. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



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

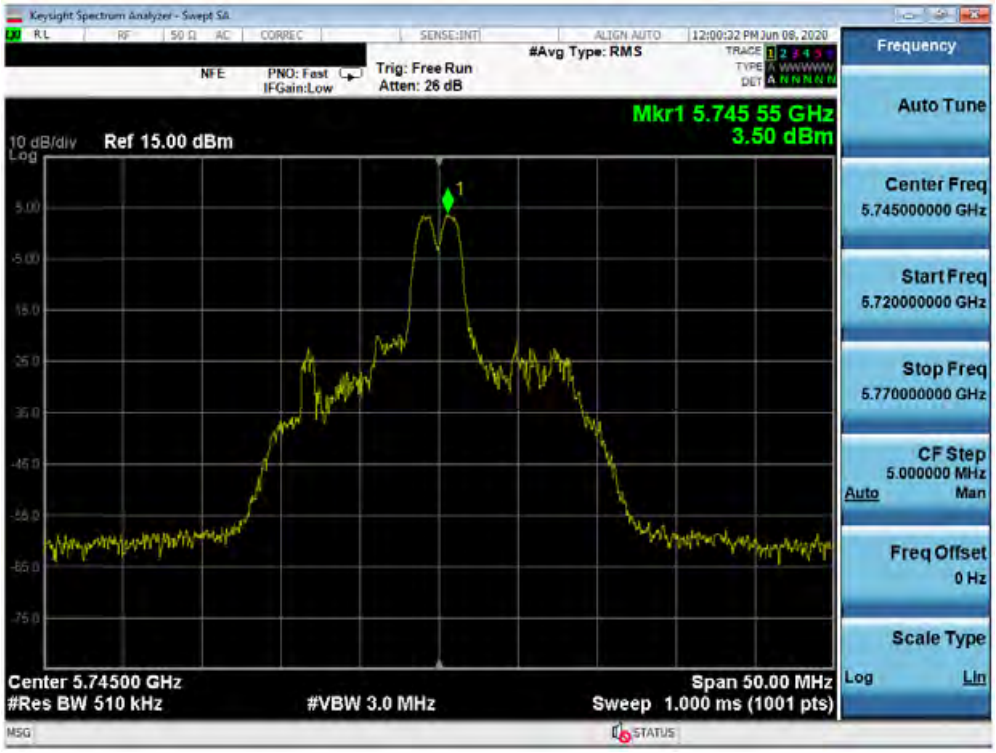


Plot 7-289. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

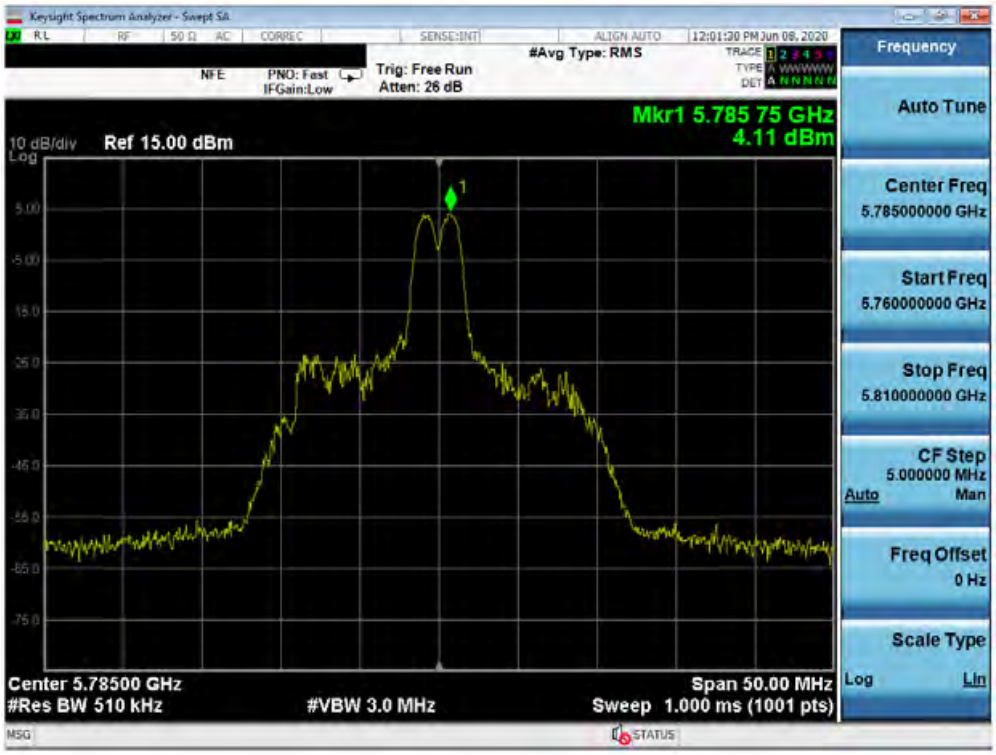


Plot 7-290. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

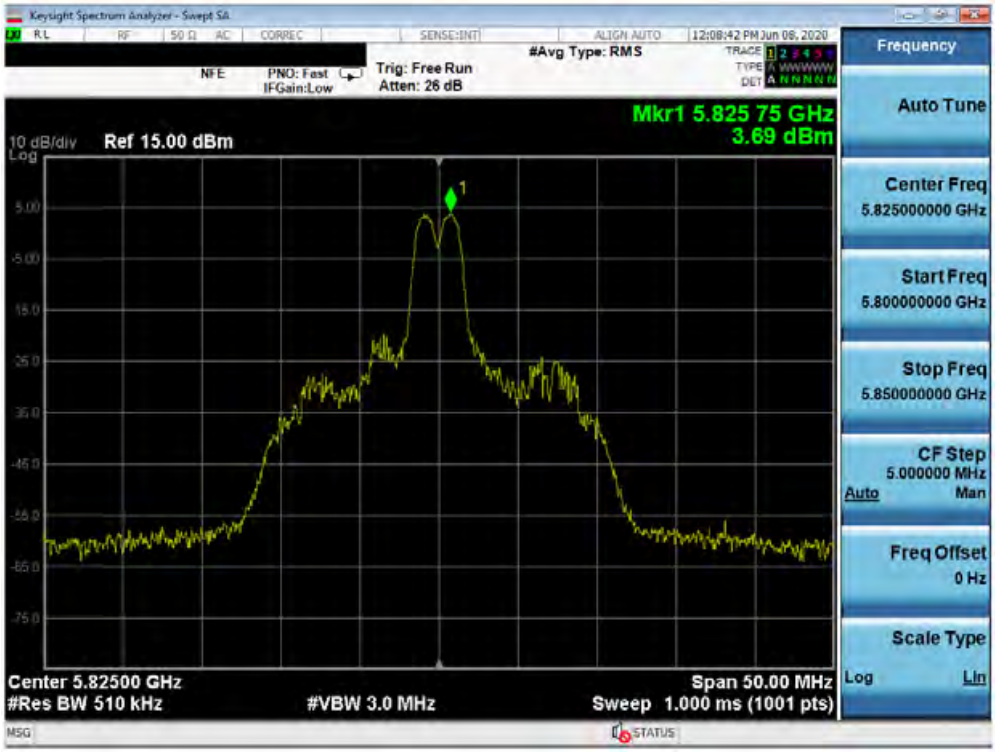
Plot 7-291. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



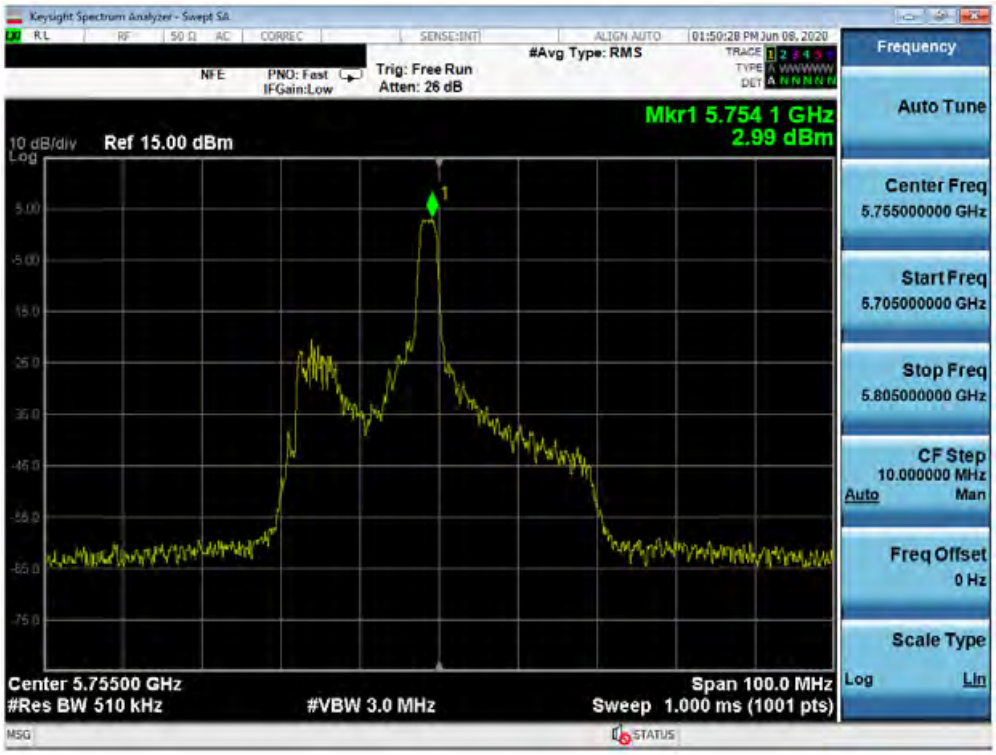
Plot 7-292. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



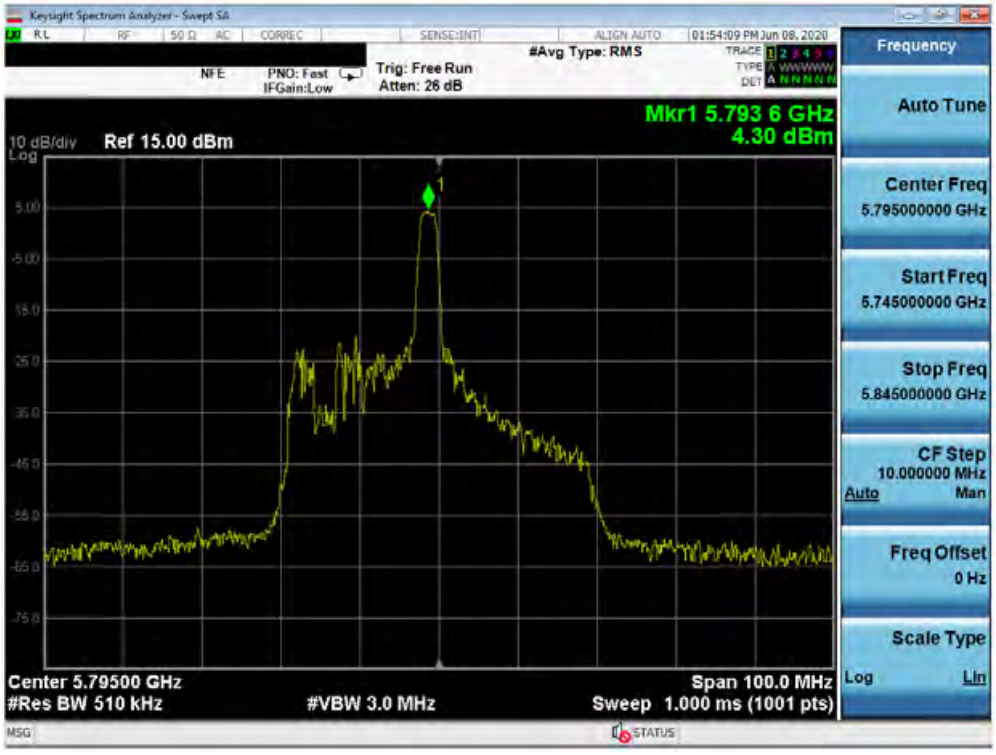
Plot 7-293. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



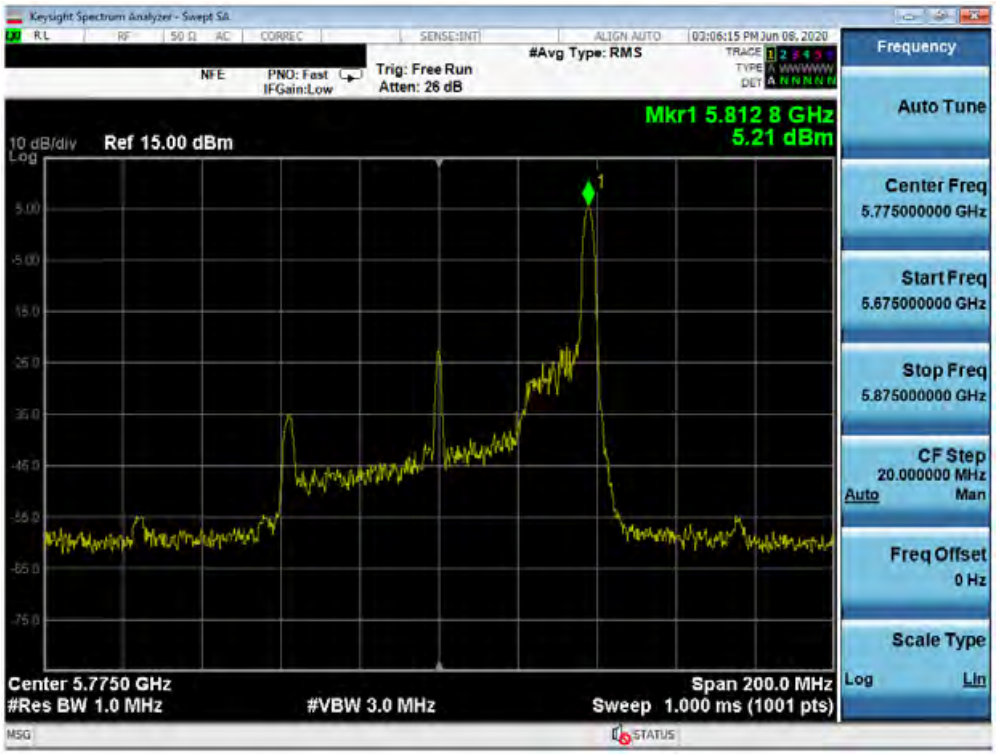
Plot 7-294. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



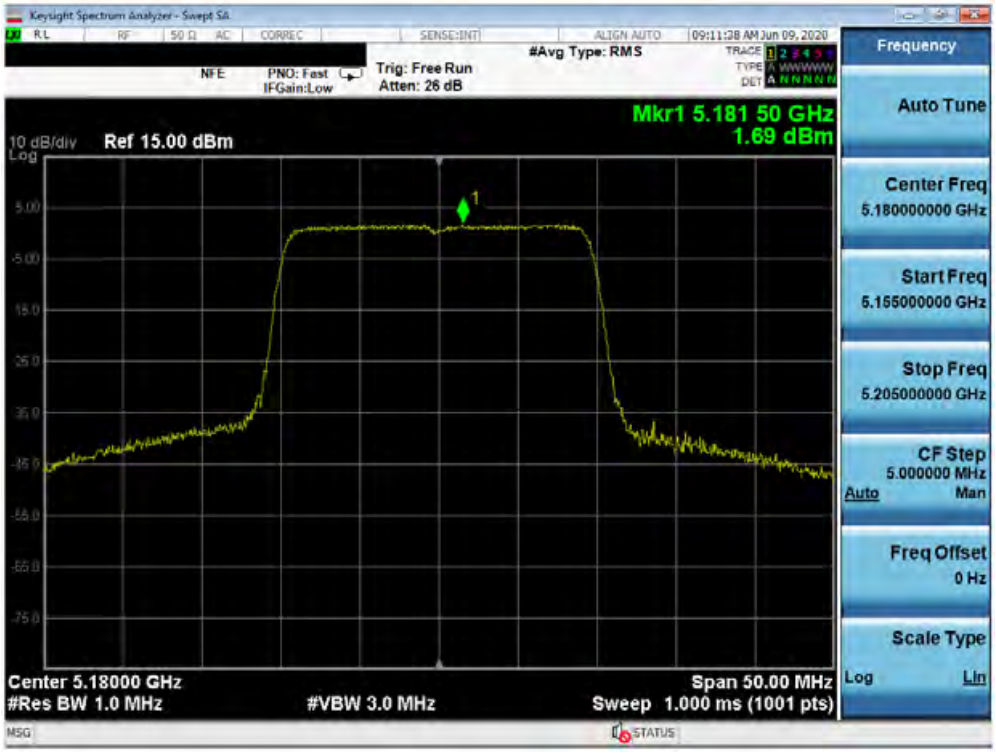
Plot 7-295. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-296. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

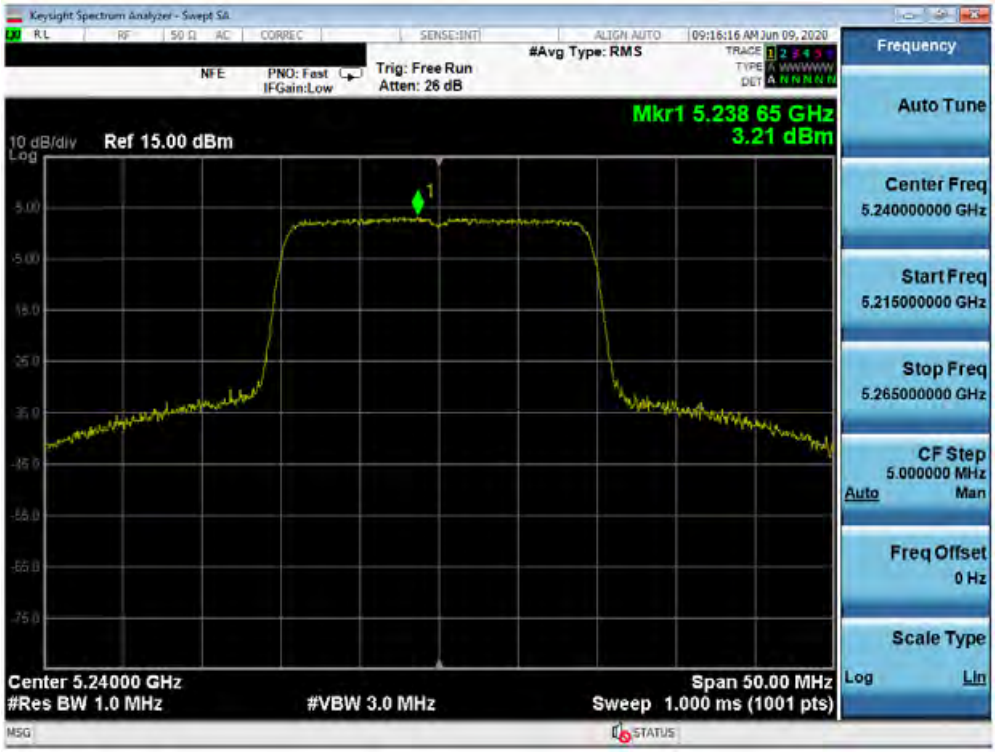


Plot 7-297. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

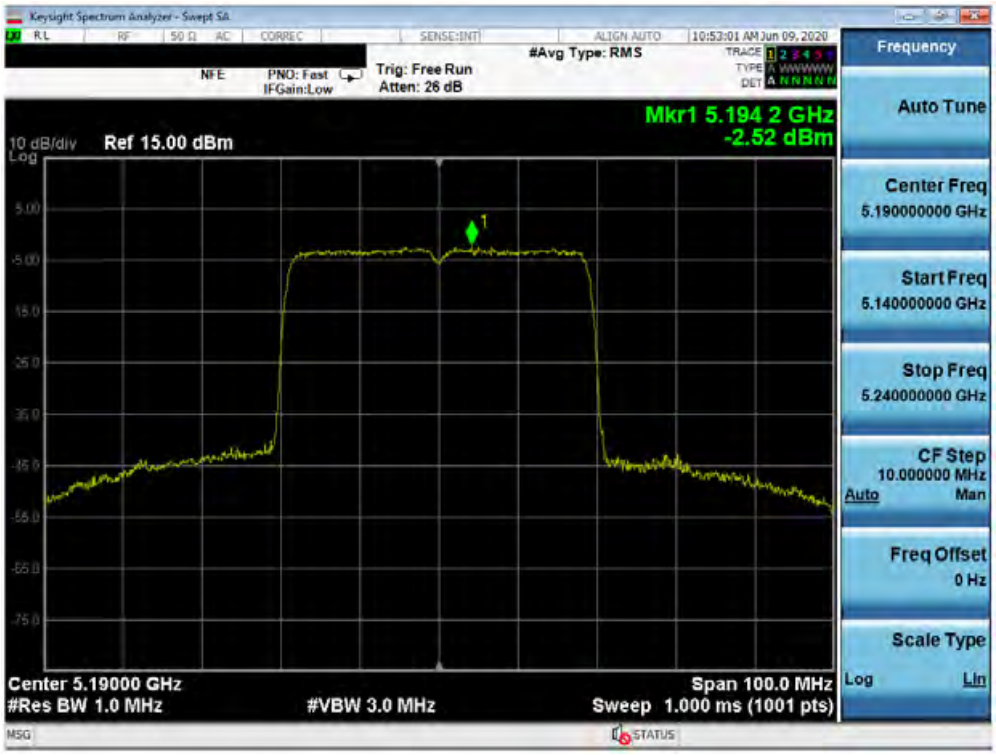


Plot 7-298. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

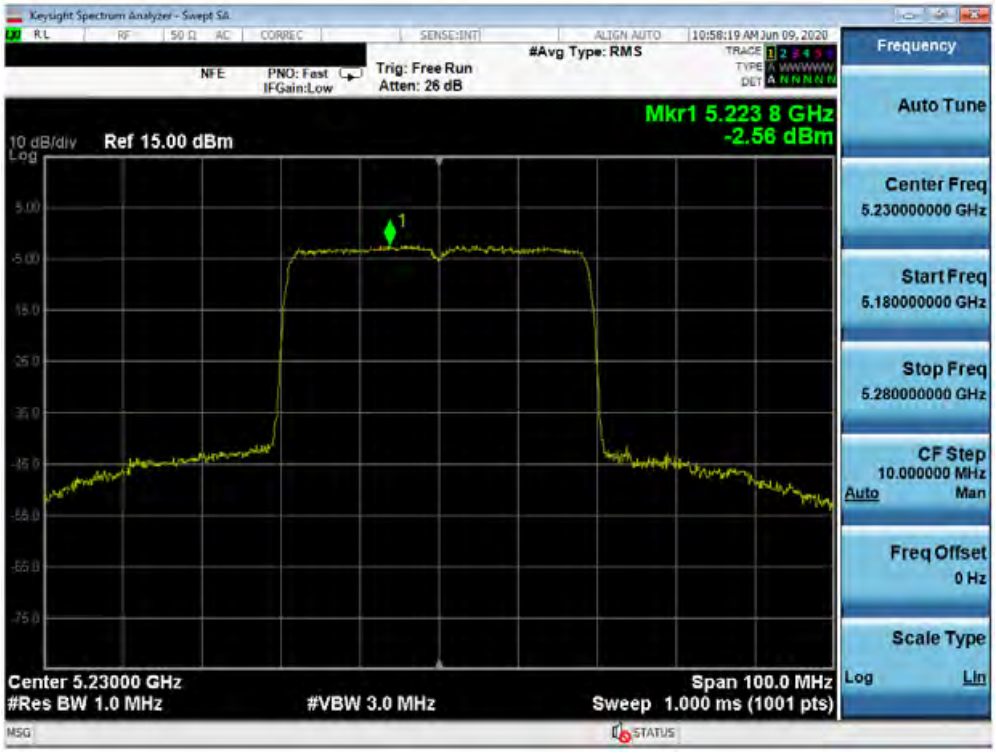
Plot 7-299. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)



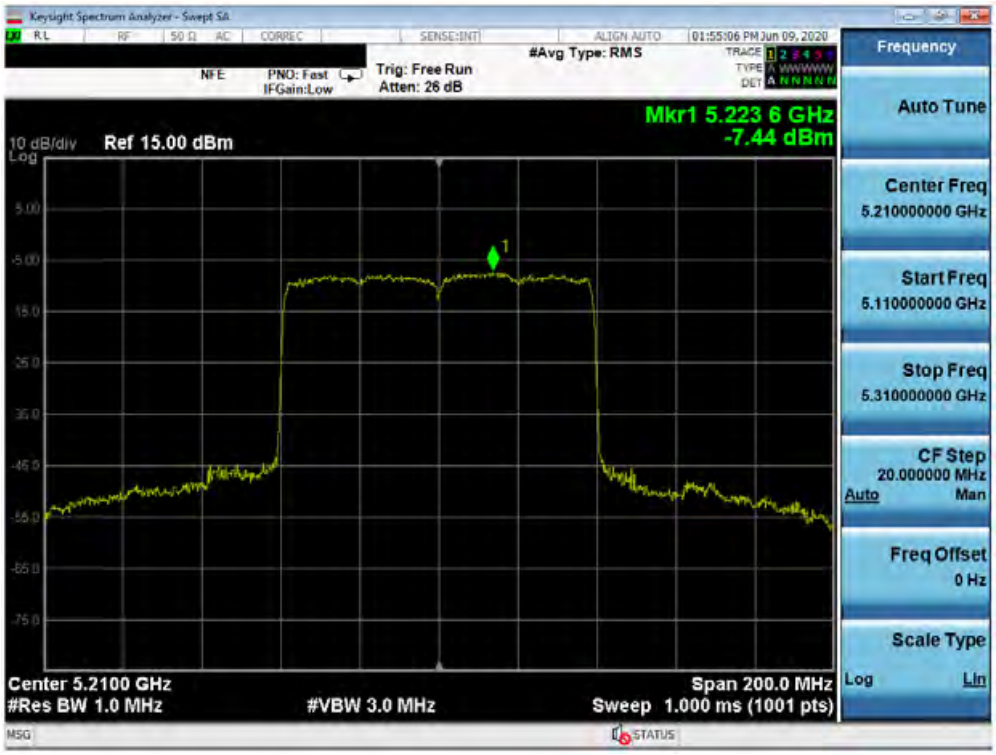
Plot 7-300. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)



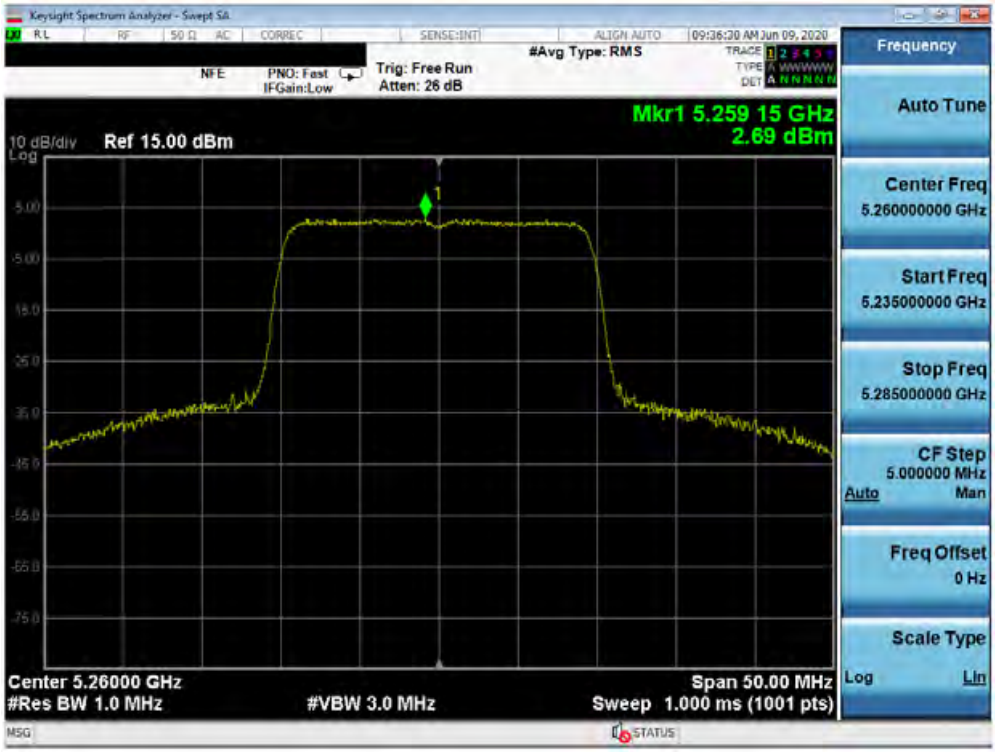
Plot 7-301. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)



Plot 7-302. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

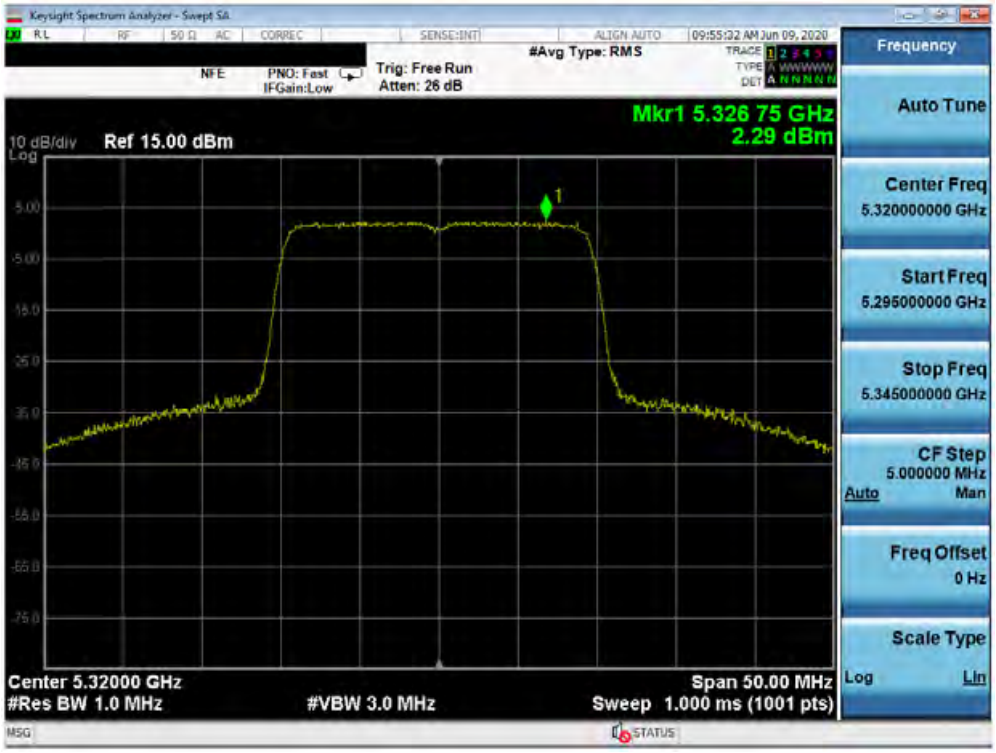


Plot 7-303. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)



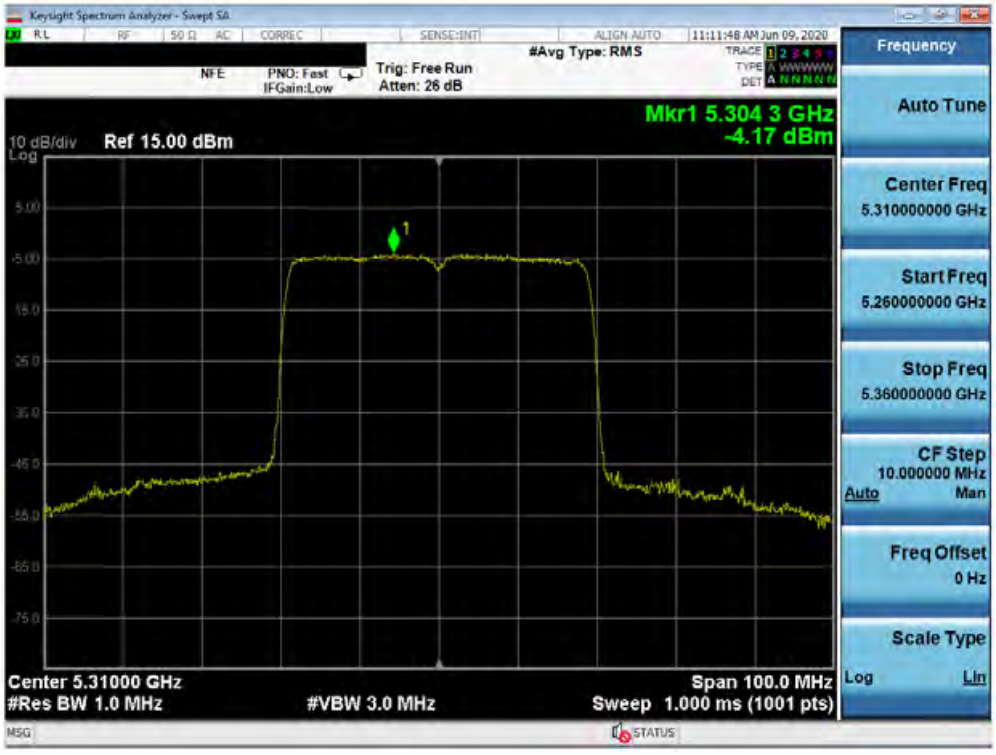
Plot 7-304. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

Plot 7-305. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)



Plot 7-306. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

Plot 7-307. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

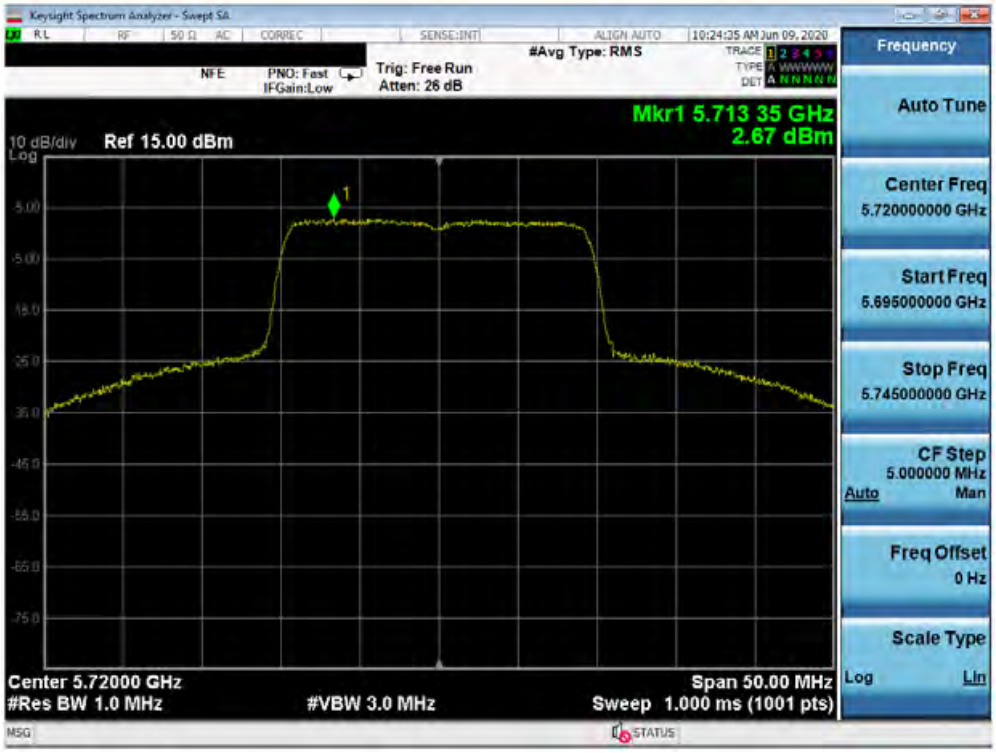


Plot 7-308. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

Plot 7-309. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

Plot 7-310. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

Plot 7-311. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)



Plot 7-312. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

Plot 7-313. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

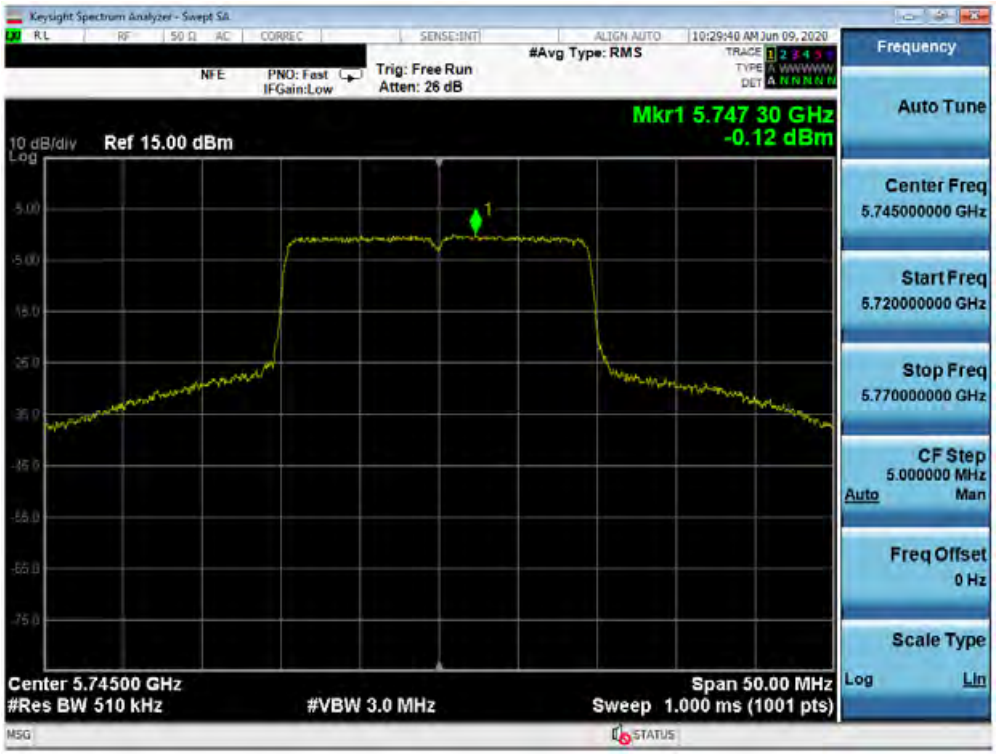
Plot 7-314. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

Plot 7-315. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

Plot 7-316. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

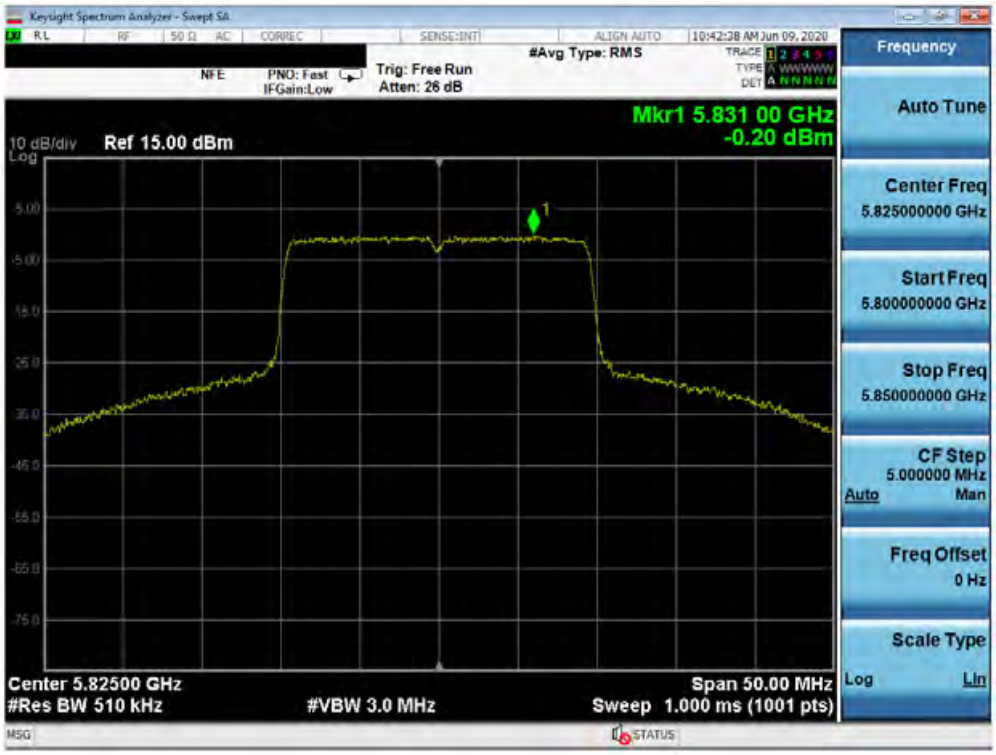
Plot 7-317. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

Plot 7-318. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)



Plot 7-319. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

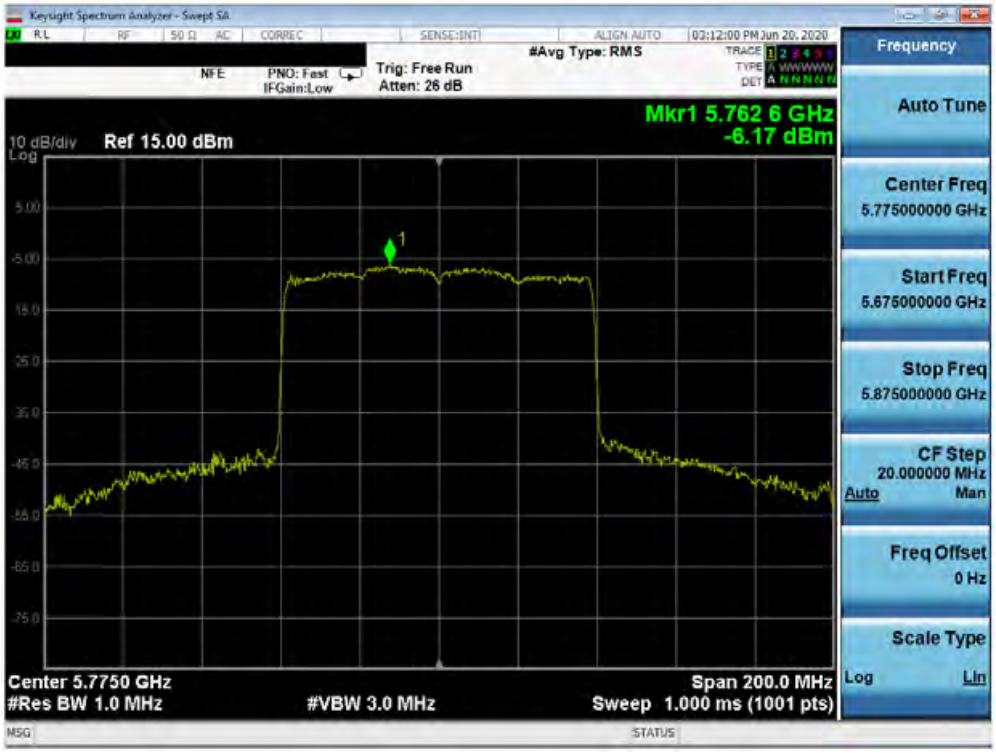
Plot 7-320. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)



Plot 7-321. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

Plot 7-322. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

Plot 7-323. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-324. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

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. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), 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 7-67 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-67. 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 ≥ 2 x span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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.

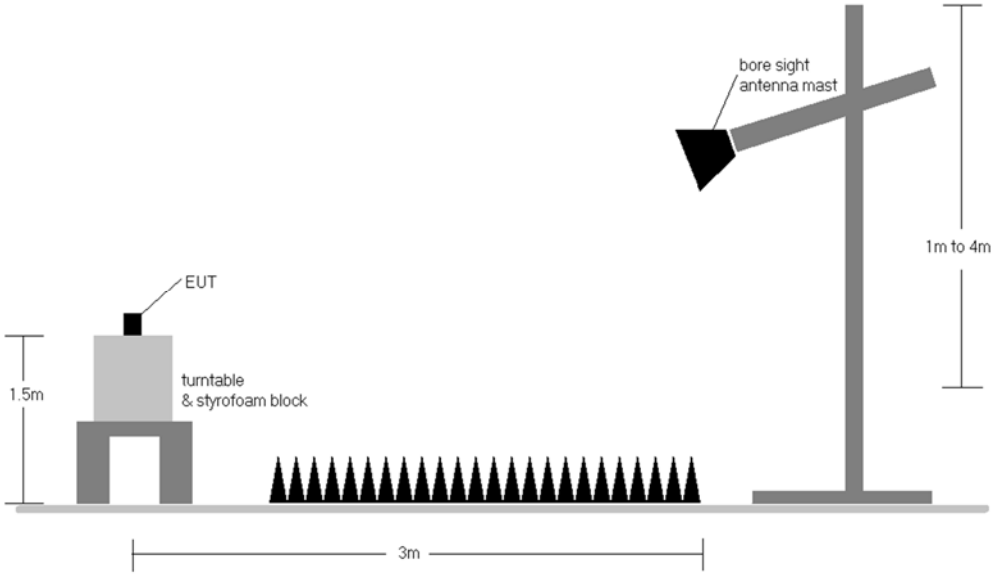


Figure 7-5. Test Instrument & Measurement Setup

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 7-67.
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 7-67. 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 dBμV/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 68.2dBμV/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. 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

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

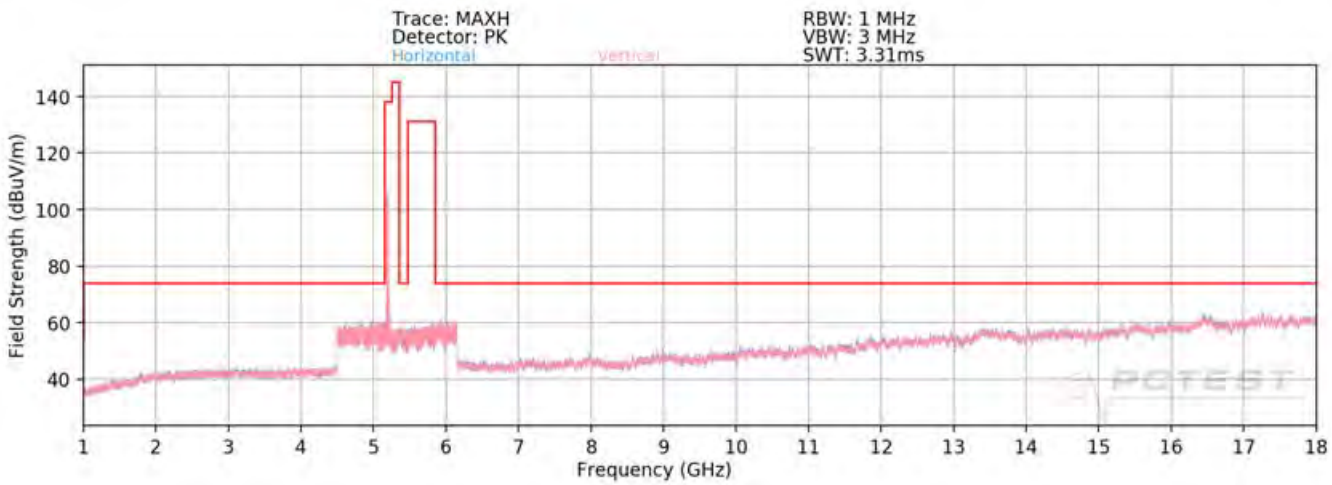
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

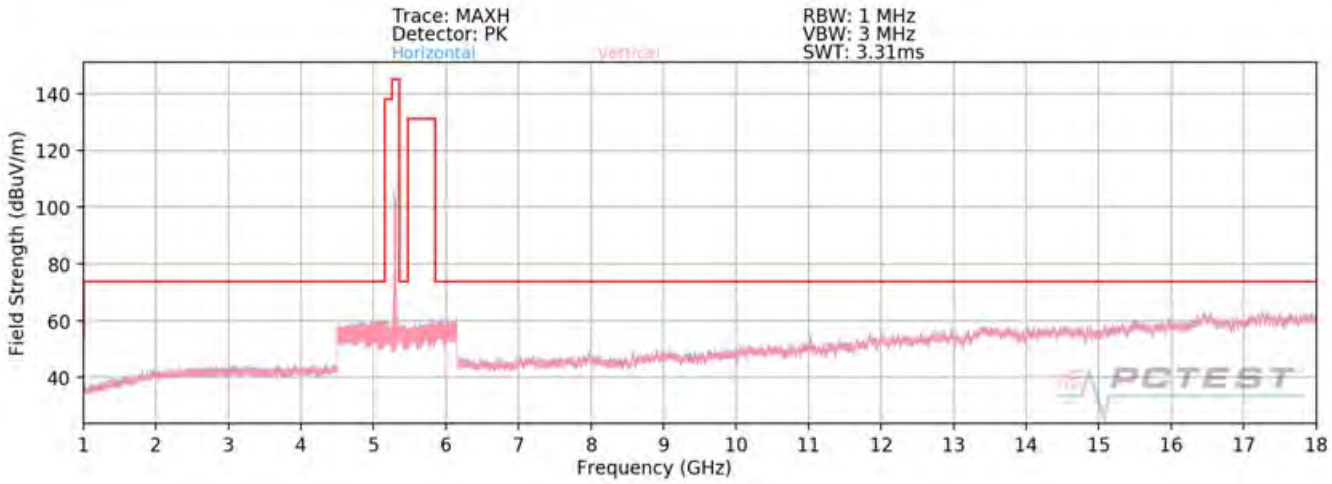
  Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

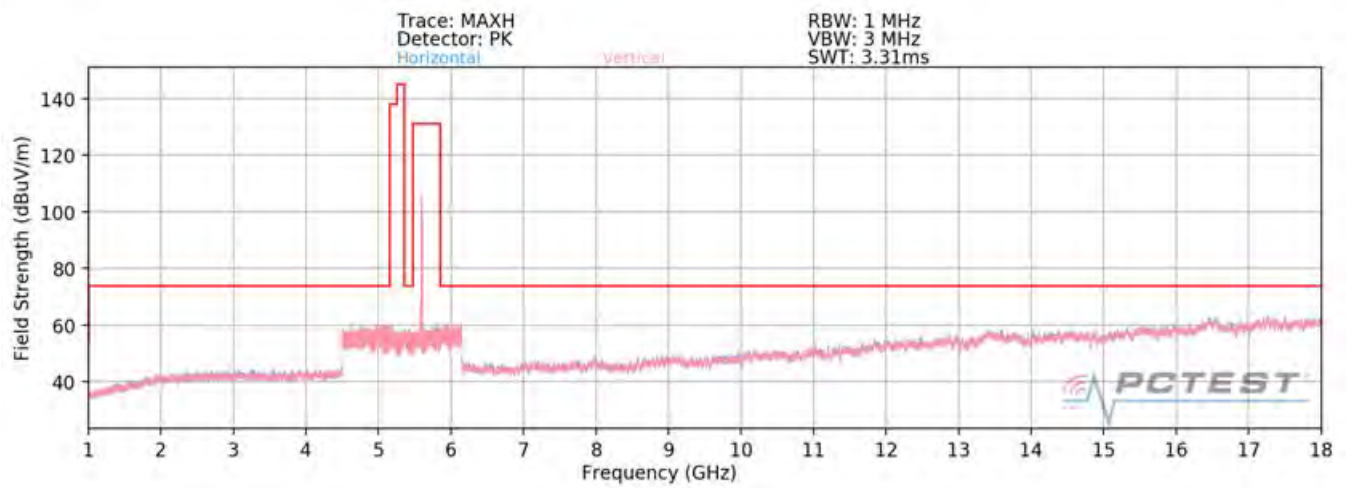
26 Tones



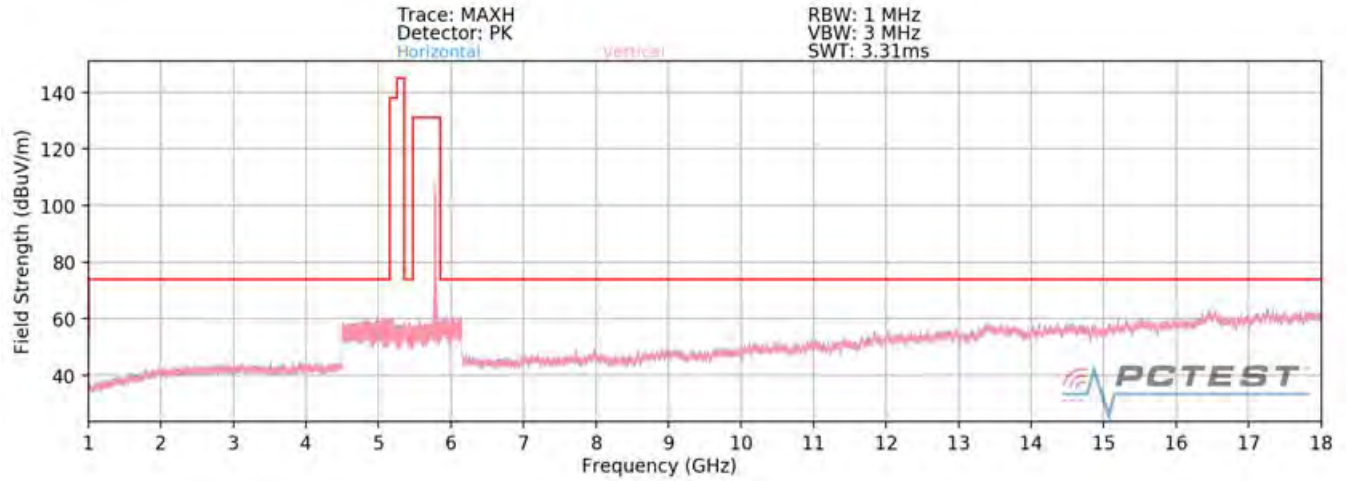
Plot 7-325. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 26 Tones)



Plot 7-326. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 26 Tones)

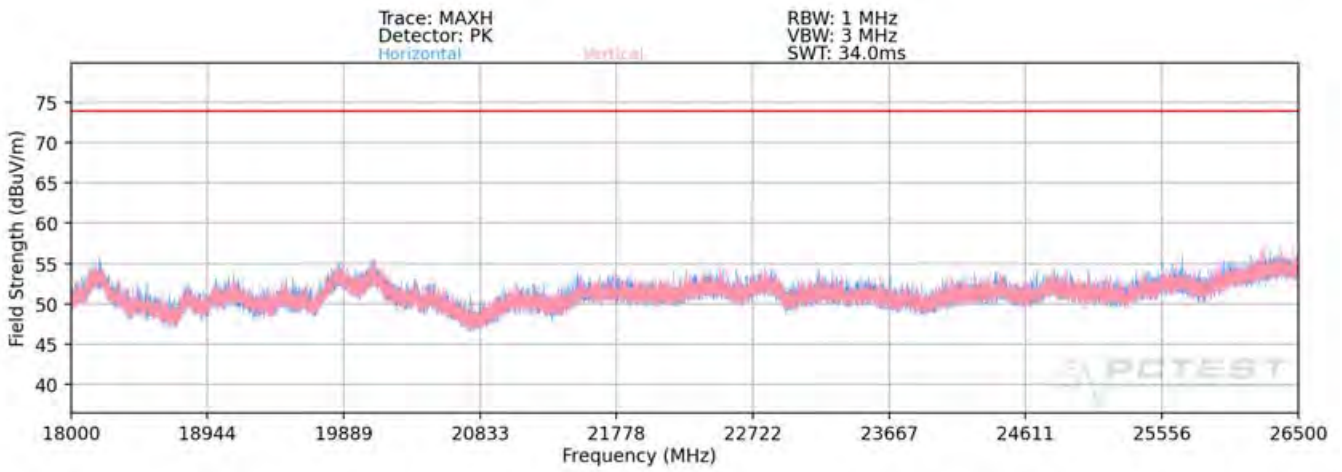


Plot 7-327. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)

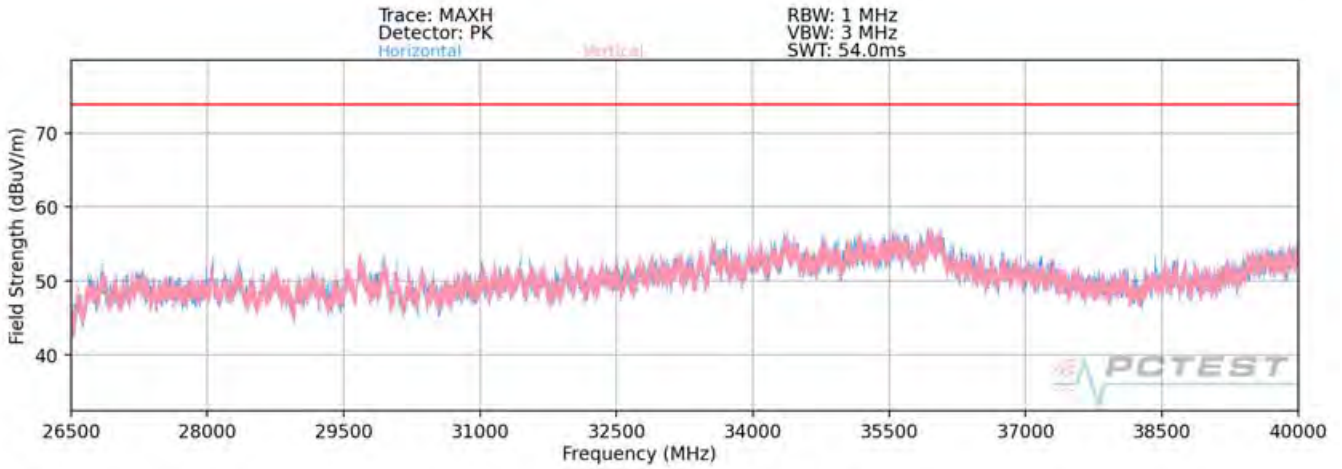


Plot 7-328. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)

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



Plot 7-329. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 26 Tones)



Plot 7-330. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 26 Tones)

SISO Antenna-1 Radiated Spurious Emission Measurements (26 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-70.21	14.45	0.00	51.24	68.20	-16.96
*	15540.00	Average	V	175	45	-82.01	21.74	0.00	46.73	53.98	-7.25
*	15540.00	Peak	V	175	45	-70.22	21.74	0.00	58.52	73.98	-15.46
*	20720.00	Average	V	-	-	-75.24	17.88	-9.54	40.10	53.98	-13.88
*	20720.00	Peak	V	-	-	-65.30	17.88	-9.54	50.04	73.98	-23.94
	25900.00	Peak	V	-	-	-64.18	20.40	-9.54	53.68	68.20	-14.52

Table 7-68. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-70.01	14.60	0.00	51.59	68.20	-16.61
*	15600.00	Average	V	166	51	-81.54	21.90	0.00	47.36	53.98	-6.62
*	15600.00	Peak	V	166	51	-69.82	21.90	0.00	59.08	73.98	-14.90
*	20800.00	Average	V	-	-	-76.28	18.08	-9.54	39.26	53.98	-14.72
*	20800.00	Peak	V	-	-	-69.85	18.08	-9.54	45.69	73.98	-28.29
	26000.00	Peak	V	-	-	-63.83	20.68	-9.54	54.30	68.20	-13.90

Table 7-69. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-71.01	14.57	0.00	50.56	68.20	-17.64
*	15720.00	Average	V	-	-	-80.11	22.17	0.00	49.06	53.98	-4.92
*	15720.00	Peak	V	-	-	-70.00	22.17	0.00	59.17	73.98	-14.81
*	20960.00	Average	V	-	-	-74.88	18.46	-9.54	41.04	53.98	-12.94
*	20960.00	Peak	V	-	-	-66.18	18.46	-9.54	49.74	73.98	-24.24
	26200.00	Peak	V	-	-	-63.99	20.96	-9.54	54.43	68.20	-13.77

Table 7-70. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-70.25	15.10	0.00	51.85	68.20	-16.35
*	15780.00	Average	V	-	-	-88.21	21.87	0.00	40.66	53.98	-13.32
*	15780.00	Peak	V	-	-	-69.87	21.87	0.00	59.00	73.98	-14.98
*	21040.00	Average	V	-	-	-74.54	18.64	-9.54	41.55	53.98	-12.43
*	21040.00	Peak	V	-	-	-64.30	18.64	-9.54	51.79	73.98	-22.19
	26300.00	Peak	V	-	-	-63.46	21.23	-9.54	55.23	68.20	-12.97

Table 7-71. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-69.88	14.95	0.00	52.07	68.20	-16.13
*	15840.00	Average	V	-	-	-87.22	22.33	0.00	42.11	53.98	-11.87
*	15840.00	Peak	V	-	-	-68.95	22.33	0.00	60.38	73.98	-13.60
*	21120.00	Average	V	-	-	-73.63	18.80	-9.54	42.63	53.98	-11.35
*	21120.00	Peak	V	-	-	-66.09	18.80	-9.54	50.17	73.98	-23.81
	26400.00	Peak	V	-	-	-62.47	21.49	-9.54	56.47	68.20	-11.73

Table 7-72. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-82.33	15.37	0.00	40.04	53.98	-13.94
*	10640.00	Peak	V	-	-	-69.32	15.37	0.00	53.05	73.98	-20.93
*	15960.00	Average	V	-	-	-83.01	22.27	0.00	46.26	53.98	-7.72
*	15960.00	Peak	V	-	-	-69.99	22.27	0.00	59.28	73.98	-14.70
*	21280.00	Average	V	-	-	-75.62	18.76	-9.54	40.60	53.98	-13.38
*	21280.00	Peak	V	-	-	-65.53	18.76	-9.54	50.69	73.98	-23.29
	26600.00	Peak	V	-	-	-64.96	6.35	-9.54	38.84	68.20	-29.36

Table 7-73. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-83.21	16.28	0.00	40.07	53.98	-13.91
*	11000.00	Peak	V	-	-	-70.11	16.28	0.00	53.17	73.98	-20.81
	16500.00	Peak	V	-	-	-68.21	23.88	0.00	62.67	68.20	-5.53
	22000.00	Peak	V	-	-	-64.92	19.37	-9.54	51.91	68.20	-16.29
	27500.00	Peak	V	-	-	-54.34	5.07	-9.54	48.19	68.20	-20.01

Table 7-74. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-81.05	16.05	0.00	42.00	53.98	-11.98
*	11200.00	Peak	V	-	-	-67.54	16.05	0.00	55.51	73.98	-18.47
	16800.00	Peak	V	-	-	-71.22	24.05	0.00	59.83	68.20	-8.37
*	22400.00	Average	V	-	-	-74.10	20.25	-9.54	43.60	53.98	-10.38
*	22400.00	Peak	V	-	-	-65.33	20.25	-9.54	52.37	73.98	-21.61
	28000.00	Peak	V	-	-	-56.38	6.42	-9.54	47.50	68.20	-20.70

Table 7-75. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-81.24	17.03	0.00	42.79	53.98	-11.19
*	11440.00	Peak	V	-	-	-70.09	17.03	0.00	53.94	73.98	-20.04
	17160.00	Peak	V	-	-	-68.86	23.47	0.00	61.61	68.20	-6.59
*	22880.00	Average	V	-	-	-73.64	19.64	-9.54	43.46	53.98	-10.52
*	22880.00	Peak	V	-	-	-65.04	19.64	-9.54	52.06	73.98	-21.92
	28600.00	Peak	V	-	-	-54.72	5.12	-9.54	47.85	68.20	-20.35

Table 7-76. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-80.29	16.80	0.00	43.51	53.98	-10.47
*	11490.00	Peak	V	-	-	-67.58	16.80	0.00	56.22	73.98	-17.76
	17235.00	Peak	V	-	-	-70.65	24.70	0.00	61.05	68.20	-7.15
*	22980.00	Average	V	-	-	-75.08	19.39	-9.54	41.77	53.98	-12.21
*	22980.00	Peak	V	-	-	-65.25	19.39	-9.54	51.60	73.98	-22.38
	28725.00	Peak	V	-	-	-55.69	6.24	-9.54	48.01	68.20	-20.19

Table 7-77. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-80.65	16.48	0.00	42.83	53.98	-11.15
*	11570.00	Peak	V	-	-	-65.32	16.48	0.00	58.16	73.98	-15.82
	17355.00	Peak	V	-	-	-69.87	25.37	0.00	62.50	68.20	-5.70
	23140.00	Peak	V	-	-	-62.45	19.78	-9.54	54.78	68.20	-13.42
	28925.00	Peak	V	-	-	-54.29	5.18	-9.54	48.35	68.20	-19.85

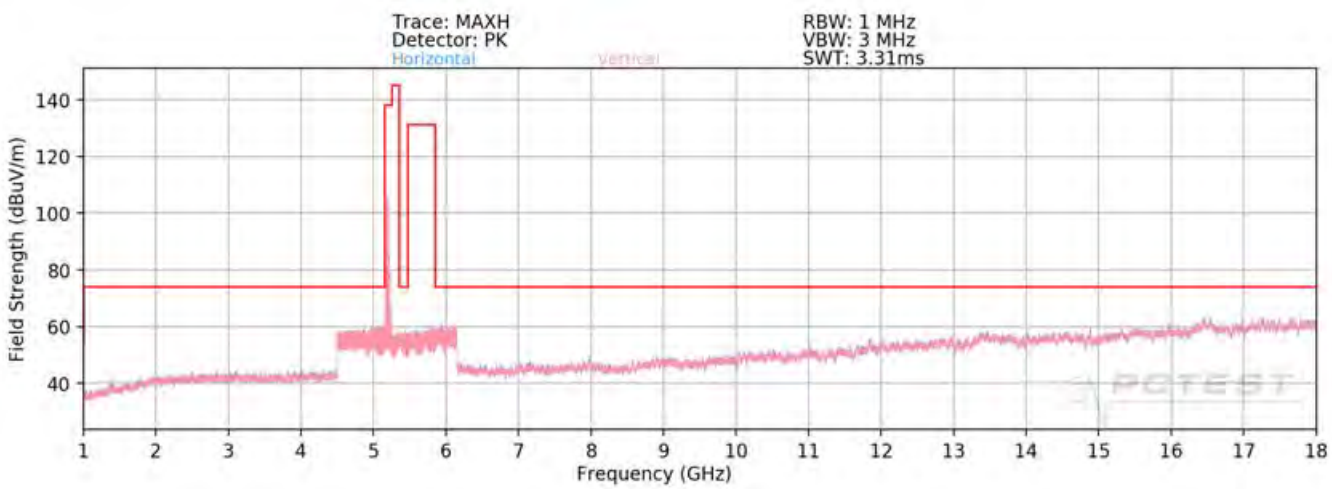
Table 7-78. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

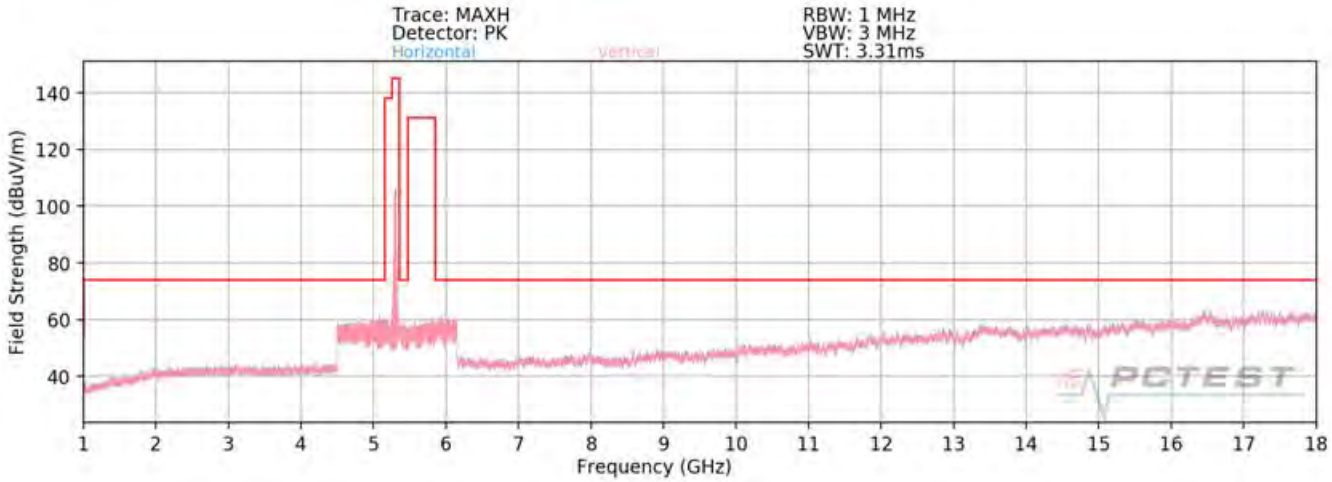
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	-	-	-80.69	16.99	0.00	43.30	53.98	-10.67
*	11650.00	Peak	V	-	-	-67.20	16.99	0.00	56.79	73.98	-17.18
	17475.00	Peak	V	-	-	-71.04	25.73	0.00	61.69	68.20	-6.51
	23300.00	Peak	V	-	-	-63.23	20.06	-9.54	54.29	68.20	-13.91
	29125.00	Peak	V	-	-	-53.25	4.94	-9.54	49.15	68.20	-19.05

Table 7-79. Radiated Measurements SISO ANT1 (26 Tones)

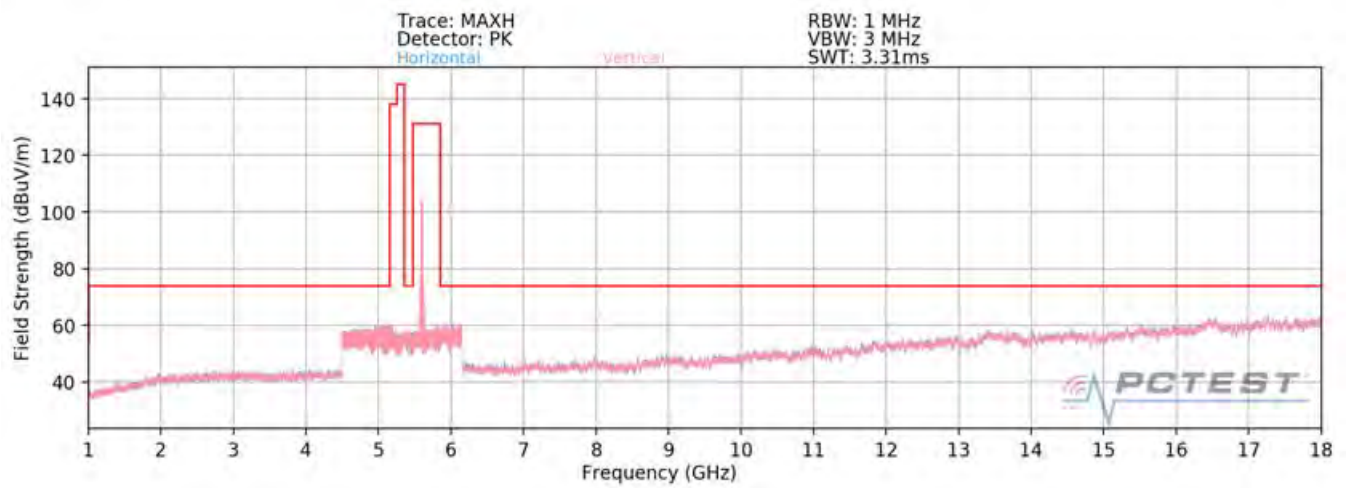
242 Tones



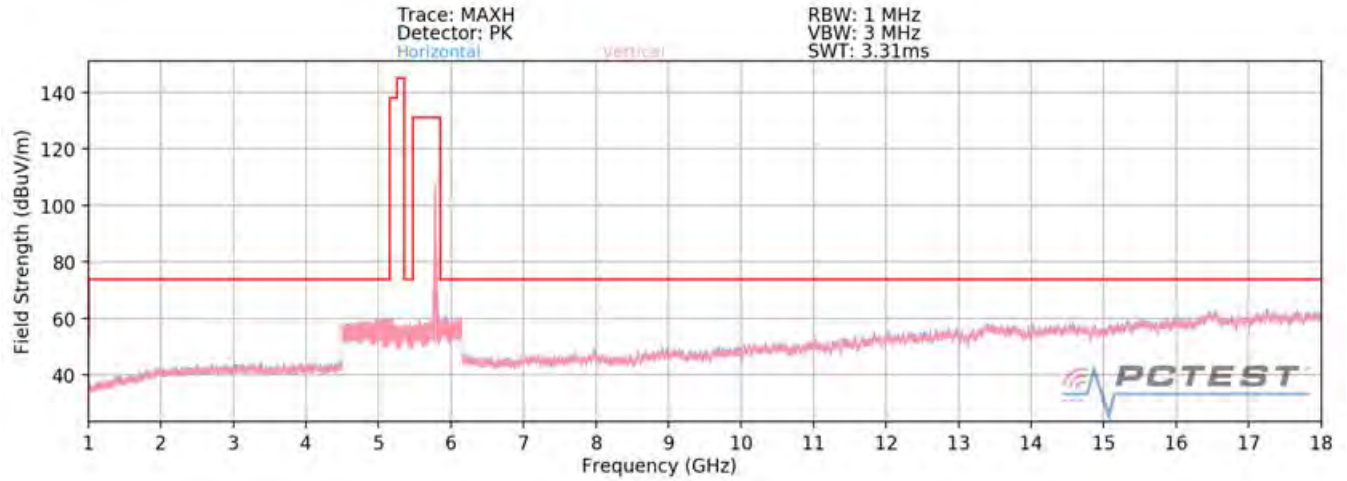
Plot 7-331. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-332. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)

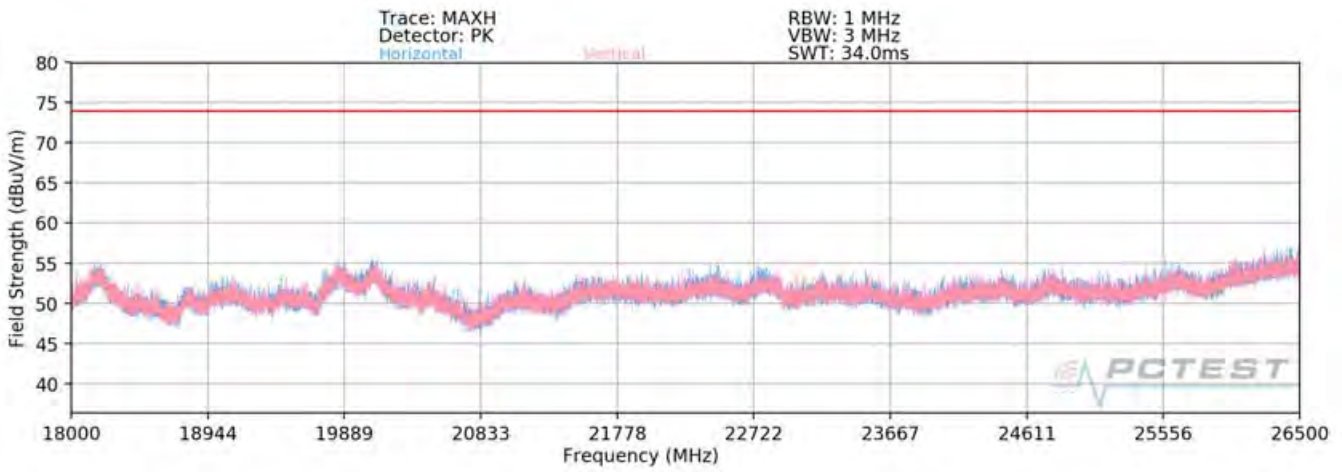


Plot 7-333. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

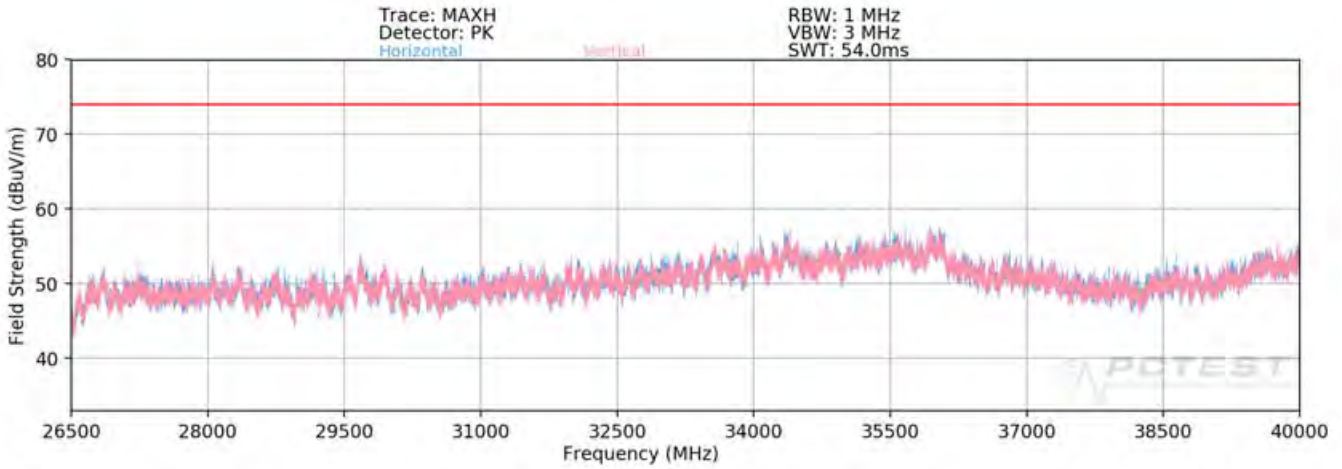


Plot 7-334. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

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



Plot 7-335. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)



Plot 7-336. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)

SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-69.36	14.45	0.00	52.09	68.20	-16.11
*	15540.00	Average	V	179	45	-80.86	21.74	0.00	47.88	53.98	-6.10
*	15540.00	Peak	V	179	45	-69.59	21.74	0.00	59.15	73.98	-14.83
*	20720.00	Average	V	-	-	-74.52	17.88	-9.54	40.82	53.98	-13.16
*	20720.00	Peak	V	-	-	-65.52	17.88	-9.54	49.82	73.98	-24.16
	25900.00	Peak	V	-	-	-63.67	20.40	-9.54	54.19	68.20	-14.01

Table 7-80. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-69.56	14.60	0.00	52.04	68.20	-16.16
*	15600.00	Average	V	167	25	-80.14	21.90	0.00	48.76	53.98	-5.22
*	15600.00	Peak	V	167	25	-68.18	21.90	0.00	60.72	73.98	-13.26
*	20800.00	Average	V	-	-	-75.93	18.08	-9.54	39.61	53.98	-14.37
*	20800.00	Peak	V	-	-	-66.90	18.08	-9.54	48.64	73.98	-25.34
	26000.00	Peak	V	-	-	-63.68	20.68	-9.54	54.45	68.20	-13.75

Table 7-81. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-69.48	14.57	0.00	52.09	68.20	-16.11
*	15720.00	Average	V	307	309	-80.52	22.17	0.00	48.65	53.98	-5.33
*	15720.00	Peak	V	307	309	-68.99	22.17	0.00	60.18	73.98	-13.80
*	20960.00	Average	V	-	-	-75.20	18.46	-9.54	40.72	53.98	-13.26
*	20960.00	Peak	V	-	-	-66.94	18.46	-9.54	48.98	73.98	-25.00
	26200.00	Peak	V	-	-	-63.96	20.96	-9.54	54.46	68.20	-13.74

Table 7-82. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-69.84	15.10	0.00	52.26	68.20	-15.94
*	15780.00	Average	V	351	327	-80.10	21.87	0.00	48.77	53.98	-5.21
*	15780.00	Peak	V	351	327	-69.43	21.87	0.00	59.44	73.98	-14.54
*	21040.00	Average	V	-	-	-74.65	18.64	-9.54	41.44	53.98	-12.54
*	21040.00	Peak	V	-	-	-65.75	18.64	-9.54	50.34	73.98	-23.64
	26300.00	Peak	V	-	-	-64.14	21.23	-9.54	54.55	68.20	-13.65

Table 7-83. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-69.53	14.95	0.00	52.42	68.20	-15.78
*	15840.00	Average	V	362	341	-81.19	22.33	0.00	48.14	53.98	-5.84
*	15840.00	Peak	V	362	341	-69.55	22.33	0.00	59.78	73.98	-14.20
*	21120.00	Average	V	-	-	-74.86	18.80	-9.54	41.40	53.98	-12.58
*	21120.00	Peak	V	-	-	-65.77	18.80	-9.54	50.49	73.98	-23.49
	26400.00	Peak	V	-	-	-62.17	21.49	-9.54	56.77	68.20	-11.43

Table 7-84. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	-	-	-81.04	15.37	0.00	41.33	53.98	-12.65
*	10640.00	Peak	V	-	-	-70.03	15.37	0.00	52.34	73.98	-21.64
*	15960.00	Average	V	376	345	-81.62	22.27	0.00	47.65	53.98	-6.33
*	15960.00	Peak	V	376	345	-69.46	22.27	0.00	59.81	73.98	-14.17
*	21280.00	Average	V	-	-	-74.80	18.76	-9.54	41.42	53.98	-12.56
*	21280.00	Peak	V	-	-	-66.01	18.76	-9.54	50.21	73.98	-23.77
	26600.00	Peak	V	-	-	-64.25	6.35	-9.54	39.55	68.20	-28.65

Table 7-85. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	202	363	-80.08	16.28	0.00	43.20	53.98	-10.78
*	11000.00	Peak	V	202	363	-68.82	16.28	0.00	54.46	73.98	-19.52
	16500.00	Peak	V	-	-	-70.00	23.88	0.00	60.88	68.20	-7.32
	22000.00	Peak	V	-	-	-66.09	19.37	-9.54	50.74	68.20	-17.46
	27500.00	Peak	V	-	-	-52.41	5.07	-9.54	50.12	68.20	-18.08

Table 7-86. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	188	349	-79.84	16.05	0.00	43.21	53.98	-10.77
*	11200.00	Peak	V	188	349	-68.34	16.05	0.00	54.71	73.98	-19.27
	16800.00	Peak	V	-	-	-70.19	24.05	0.00	60.86	68.20	-7.34
*	22400.00	Average	V	-	-	-74.43	20.25	-9.54	43.27	53.98	-10.71
*	22400.00	Peak	V	-	-	-65.12	20.25	-9.54	52.58	73.98	-21.40
	28000.00	Peak	V	-	-	-54.41	6.42	-9.54	49.47	68.20	-18.73

Table 7-87. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	188	359	-78.70	17.03	0.00	45.33	53.98	-8.65
*	11440.00	Peak	V	188	359	-64.43	17.03	0.00	59.60	73.98	-14.38
	17160.00	Peak	V	-	-	-69.29	23.47	0.00	61.18	68.20	-7.02
*	22880.00	Average	V	-	-	-73.44	19.64	-9.54	43.66	53.98	-10.32
*	22880.00	Peak	V	-	-	-64.70	19.64	-9.54	52.40	73.98	-21.58
	28600.00	Peak	V	-	-	-54.25	5.12	-9.54	48.32	68.20	-19.88

Table 7-88. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	176	6	-78.08	16.80	0.00	45.72	53.98	-8.26
*	11490.00	Peak	V	176	6	-64.00	16.80	0.00	59.80	73.98	-14.18
	17235.00	Peak	V	-	-	-70.41	24.70	0.00	61.29	68.20	-6.91
*	22980.00	Average	V	-	-	-75.63	19.39	-9.54	41.22	53.98	-12.76
*	22980.00	Peak	V	-	-	-66.38	19.39	-9.54	50.47	73.98	-23.51
	28725.00	Peak	V	-	-	-53.43	6.24	-9.54	50.27	68.20	-17.93

Table 7-89. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	176	356	-76.79	16.48	0.00	46.69	53.98	-7.29
*	11570.00	Peak	V	176	356	-62.92	16.48	0.00	60.56	73.98	-13.42
	17355.00	Peak	V	-	-	-70.79	25.37	0.00	61.58	68.20	-6.62
	23140.00	Peak	V	-	-	-65.43	19.78	-9.54	51.80	68.20	-16.40
	28925.00	Peak	V	-	-	-54.50	5.18	-9.54	48.14	68.20	-20.06

Table 7-90. Radiated Measurements SISO ANT1 (242 Tones)

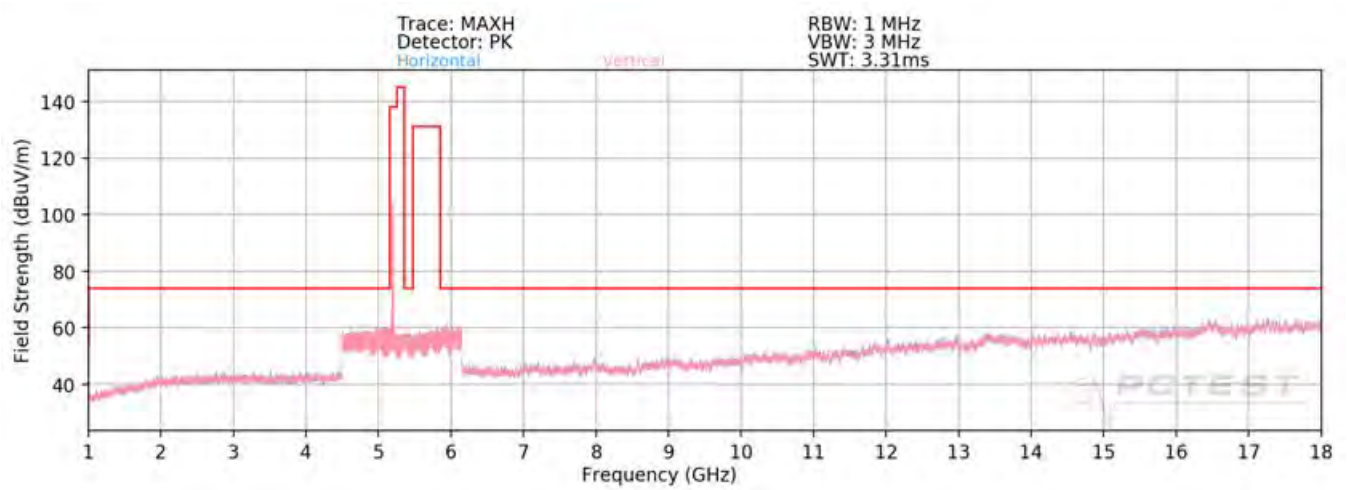
Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

	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	V	184	3	-76.61	16.99	0.00	47.38	53.98	-6.59
*	11650.00	Peak	V	184	3	-62.94	16.99	0.00	61.05	73.98	-12.92
	17475.00	Peak	V	-	-	-70.53	25.73	0.00	62.20	68.20	-6.00
	23300.00	Peak	V	-	-	-64.77	20.06	-9.54	52.75	68.20	-15.45
	29125.00	Peak	V	-	-	-52.70	4.94	-9.54	49.70	68.20	-18.50

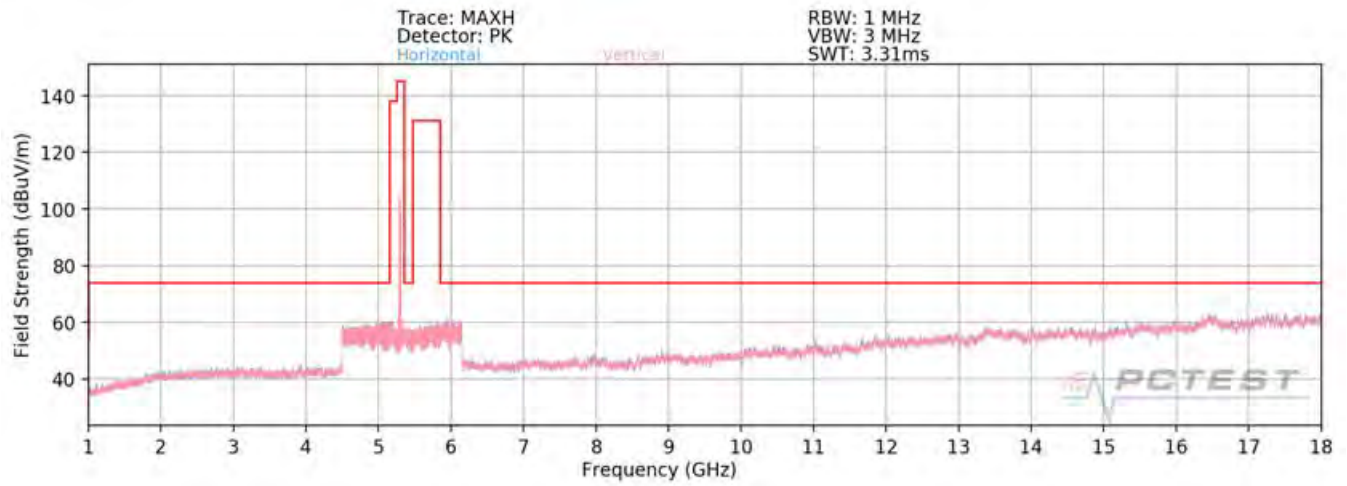
Table 7-91. Radiated Measurements SISO ANT1 (242 Tones)

7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

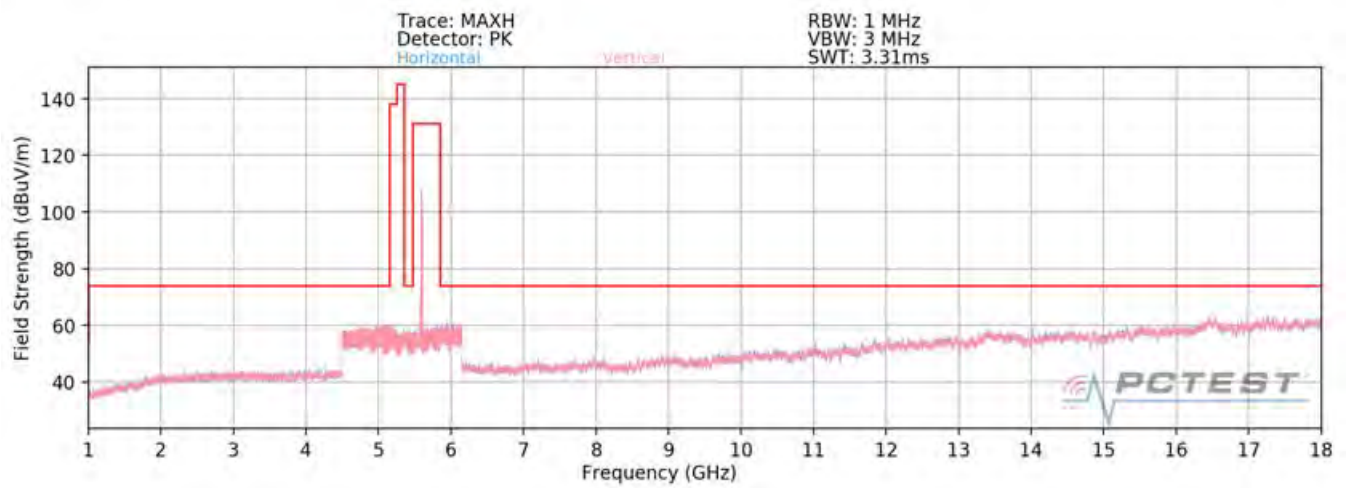
26 Tones



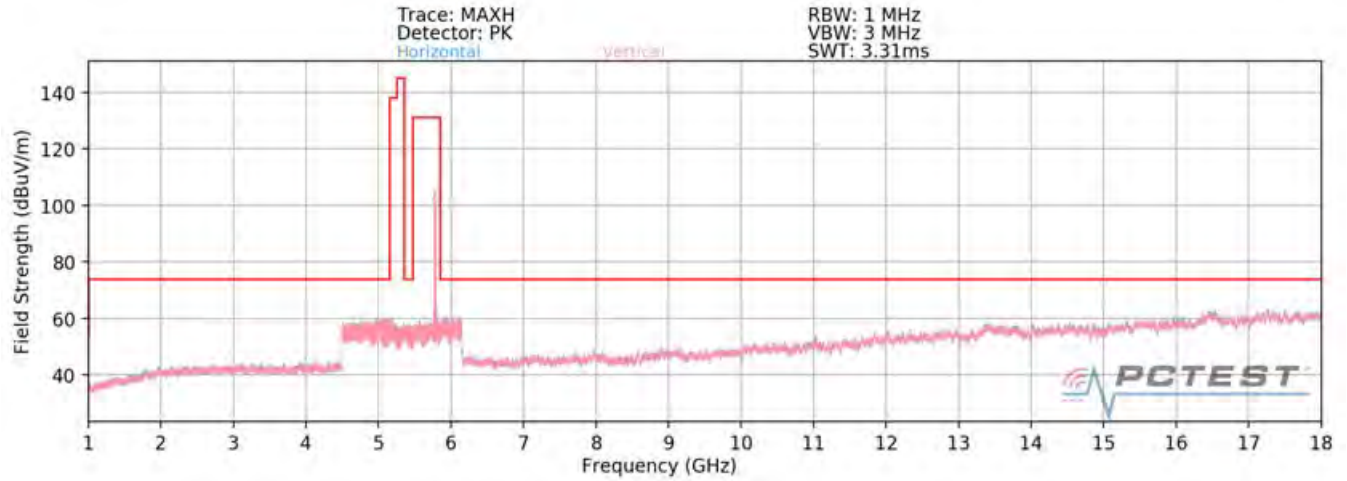
Plot 7-337. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 26 Tones)



Plot 7-338. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)

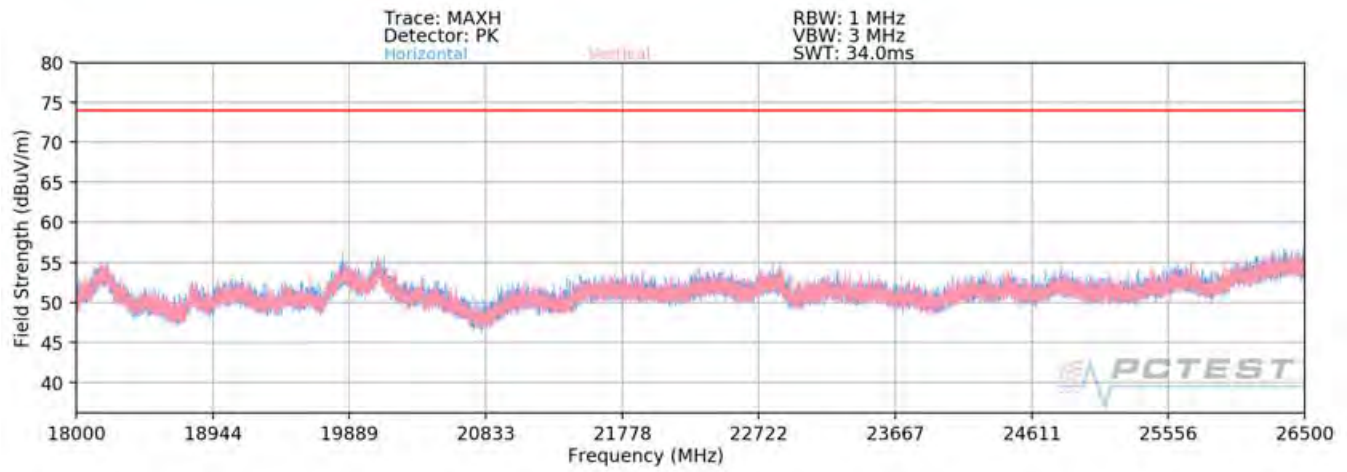


Plot 7-339. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)

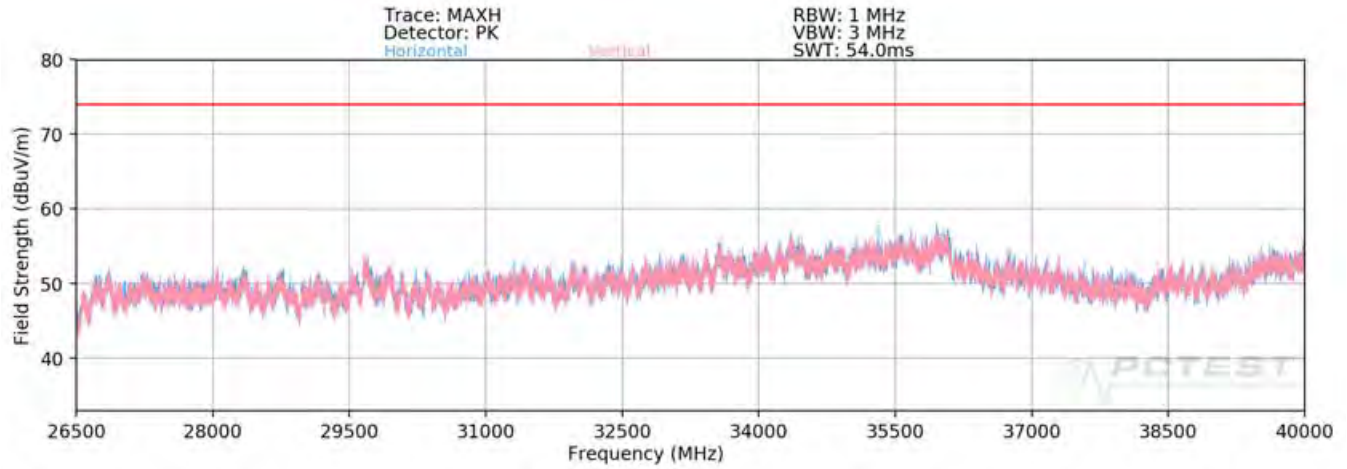


Plot 7-340. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 26 Tones)

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



Plot 7-341. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 26 Tones)



Plot 7-342. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 26 Tones)

SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-69.35	14.45	0.00	52.10	68.20	-16.10
*	15540.00	Average	V	187	329	-80.51	21.74	0.00	48.23	53.98	-5.75
*	15540.00	Peak	V	187	329	-63.63	21.74	0.00	65.11	73.98	-8.87
*	20720.00	Average	V	-	-	-74.84	17.88	-9.54	40.50	53.98	-13.48
*	20720.00	Peak	V	-	-	-65.97	17.88	-9.54	49.37	73.98	-24.61
	25900.00	Peak	V	-	-	-63.60	20.40	-9.54	54.26	68.20	-13.94

Table 7-92. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-69.06	14.60	0.00	52.54	68.20	-15.66
*	15600.00	Average	V	191	321	-78.39	21.90	0.00	50.51	53.98	-3.47
*	15600.00	Peak	V	191	321	-61.06	21.90	0.00	67.84	73.98	-6.14
*	20800.00	Average	V	-	-	-76.36	18.08	-9.54	39.18	53.98	-14.80
*	20800.00	Peak	V	-	-	-66.38	18.08	-9.54	49.16	73.98	-24.82
	26000.00	Peak	V	-	-	-63.99	20.68	-9.54	54.14	68.20	-14.06

Table 7-93. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-69.61	14.57	0.00	51.96	68.20	-16.24
*	15720.00	Average	V	188	329	-78.60	22.17	0.00	50.57	53.98	-3.41
*	15720.00	Peak	V	188	329	-63.48	22.17	0.00	65.69	73.98	-8.29
*	20960.00	Average	V	-	-	-75.08	18.46	-9.54	40.84	53.98	-13.14
*	20960.00	Peak	V	-	-	-65.32	18.46	-9.54	50.60	73.98	-23.38
	26200.00	Peak	V	-	-	-64.07	20.96	-9.54	54.35	68.20	-13.85

Table 7-94. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-68.60	15.10	0.00	53.50	68.20	-14.70
*	15780.00	Average	V	264	341	-78.83	21.87	0.00	50.04	53.98	-3.94
*	15780.00	Peak	V	264	341	-62.12	21.87	0.00	66.75	73.98	-7.23
*	21040.00	Average	V	-	-	-74.73	18.64	-9.54	41.36	53.98	-12.62
*	21040.00	Peak	V	-	-	-65.22	18.64	-9.54	50.87	73.98	-23.11
	26300.00	Peak	V	-	-	-62.73	21.23	-9.54	55.96	68.20	-12.24

Table 7-95. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-69.60	14.95	0.00	52.35	68.20	-15.85
*	15840.00	Average	V	191	317	-80.05	22.33	0.00	49.28	53.98	-4.70
*	15840.00	Peak	V	191	317	-66.28	22.33	0.00	63.05	73.98	-10.93
*	21120.00	Average	V	-	-	-75.09	18.80	-9.54	41.17	53.98	-12.81
*	21120.00	Peak	V	-	-	-65.43	18.80	-9.54	50.83	73.98	-23.15
	26400.00	Peak	V	-	-	-63.51	21.49	-9.54	55.43	68.20	-12.77

Table 7-96. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-81.05	15.37	0.00	41.32	53.98	-12.66
*	10640.00	Peak	V	-	-	-69.28	15.37	0.00	53.09	73.98	-20.89
*	15960.00	Average	V	261	331	-79.76	22.27	0.00	49.51	53.98	-4.47
*	15960.00	Peak	V	261	331	-64.18	22.27	0.00	65.09	73.98	-8.89
*	21280.00	Average	V	-	-	-75.75	18.76	-9.54	40.47	53.98	-13.51
*	21280.00	Peak	V	-	-	-65.38	18.76	-9.54	50.84	73.98	-23.14
	26600.00	Peak	V	-	-	-64.62	6.35	-9.54	39.18	68.20	-29.02

Table 7-97. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	-	-	-80.19	16.28	0.00	43.09	53.98	-10.89
*	11000.00	Peak	V	-	-	-68.04	16.28	0.00	55.24	73.98	-18.74
	16500.00	Peak	V	183	325	-68.10	23.88	0.00	62.78	68.20	-5.42
	22000.00	Peak	V	-	-	-64.47	19.37	-9.54	52.36	68.20	-15.84
	27500.00	Peak	V	-	-	-53.04	5.07	-9.54	49.49	68.20	-18.71

Table 7-98. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	293	291	-80.08	16.05	0.00	42.97	53.98	-11.01
*	11200.00	Peak	V	293	291	-66.96	16.05	0.00	56.09	73.98	-17.89
	16800.00	Peak	V	-	-	-70.16	24.05	0.00	60.89	68.20	-7.31
*	22400.00	Average	V	-	-	-73.99	20.25	-9.54	43.71	53.98	-10.27
*	22400.00	Peak	V	-	-	-65.07	20.25	-9.54	52.63	73.98	-21.35
	28000.00	Peak	V	-	-	-55.50	6.42	-9.54	48.38	68.20	-19.82

Table 7-99. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	269	295	-80.53	17.03	0.00	43.50	53.98	-10.48
*	11440.00	Peak	V	269	295	-69.49	17.03	0.00	54.54	73.98	-19.44
	17160.00	Peak	V	-	-	-68.88	23.47	0.00	61.59	68.20	-6.61
*	22880.00	Average	V	-	-	-73.39	19.64	-9.54	43.71	53.98	-10.27
*	22880.00	Peak	V	-	-	-64.36	19.64	-9.54	52.74	73.98	-21.24
	28600.00	Peak	V	-	-	-53.56	5.12	-9.54	49.01	68.20	-19.19

Table 7-100. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	214	294	-79.91	16.80	0.00	43.89	53.98	-10.09
*	11490.00	Peak	V	214	294	-67.00	16.80	0.00	56.80	73.98	-17.18
	17235.00	Peak	V	-	-	-69.50	24.70	0.00	62.20	68.20	-6.00
*	22980.00	Average	V	-	-	-74.92	19.39	-9.54	41.93	53.98	-12.05
*	22980.00	Peak	V	-	-	-65.62	19.39	-9.54	51.23	73.98	-22.75
	28725.00	Peak	V	-	-	-52.16	6.24	-9.54	51.54	68.20	-16.66

Table 7-101. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	V	200	296	-79.32	16.48	0.00	44.16	53.98	-9.82
*	11570.00	Peak	V	200	296	-64.22	16.48	0.00	59.26	73.98	-14.72
	17355.00	Peak	V	-	-	-69.61	25.37	0.00	62.76	68.20	-5.44
	23140.00	Peak	V	-	-	-65.86	19.78	-9.54	51.37	68.20	-16.83
	28925.00	Peak	V	-	-	-55.19	5.18	-9.54	47.45	68.20	-20.75

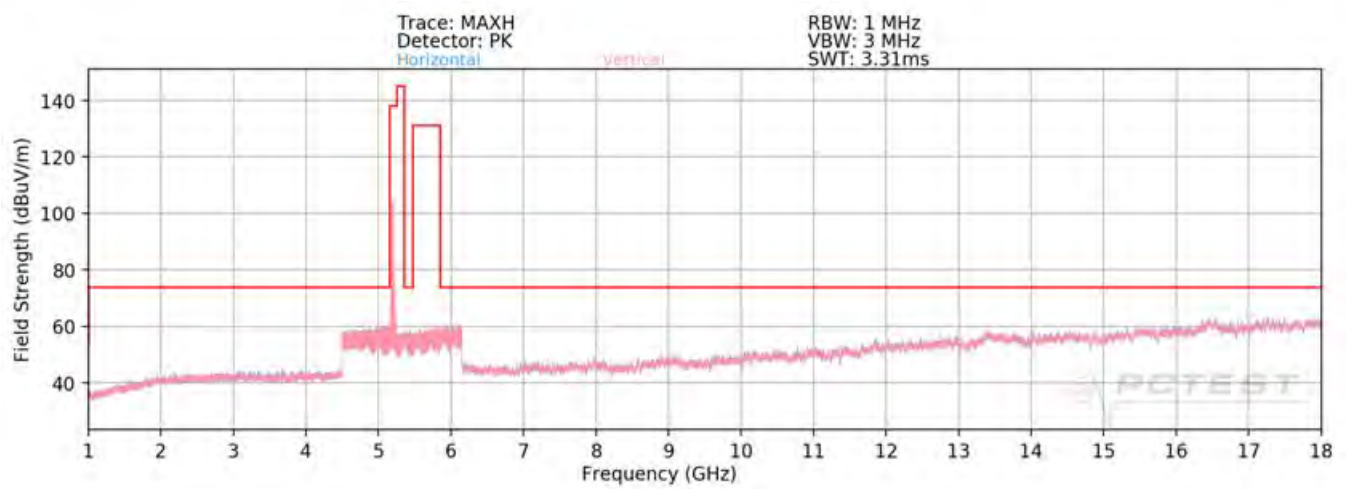
Table 7-102. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

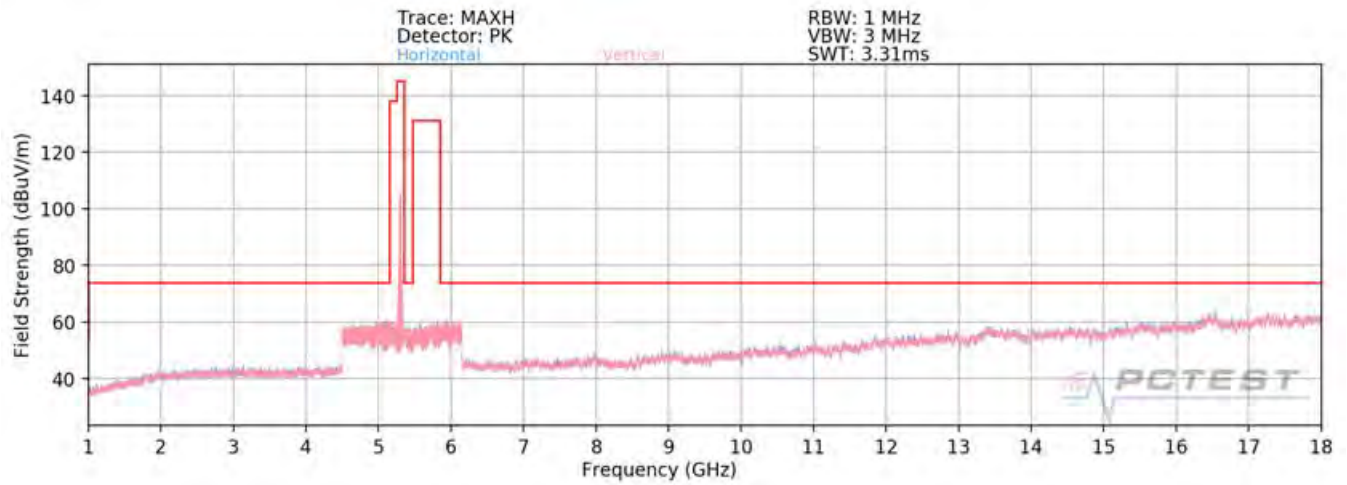
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	176	292	-79.02	16.99	0.00	44.97	53.98	-9.00
*	11650.00	Peak	V	176	292	-64.17	16.99	0.00	59.82	73.98	-14.15
	17475.00	Peak	V	-	-	-70.07	25.73	0.00	62.66	68.20	-5.54
	23300.00	Peak	V	-	-	-65.23	20.06	-9.54	52.29	68.20	-15.91
	29125.00	Peak	V	-	-	-51.96	4.94	-9.54	50.44	68.20	-17.76

Table 7-103. Radiated Measurements SISO ANT2 (26 Tones)

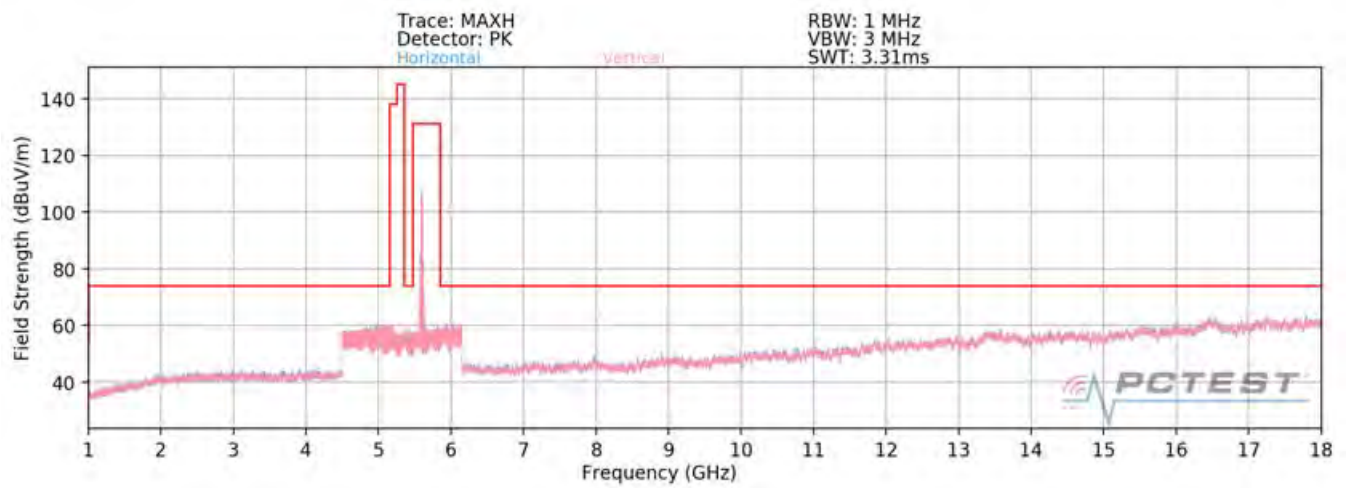
242 Tones



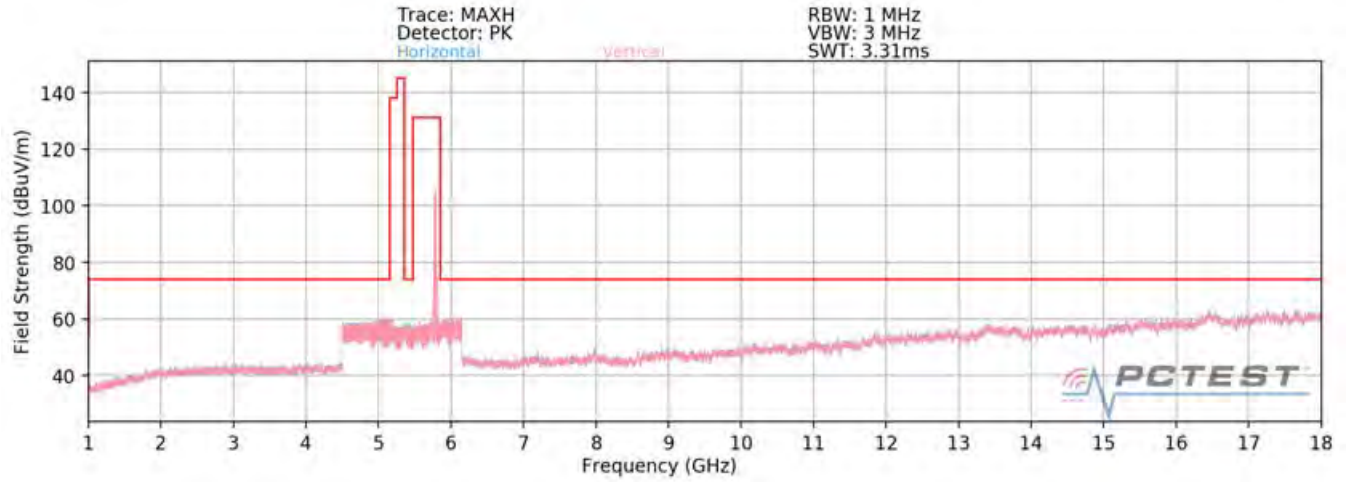
Plot 7-343. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-344. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)

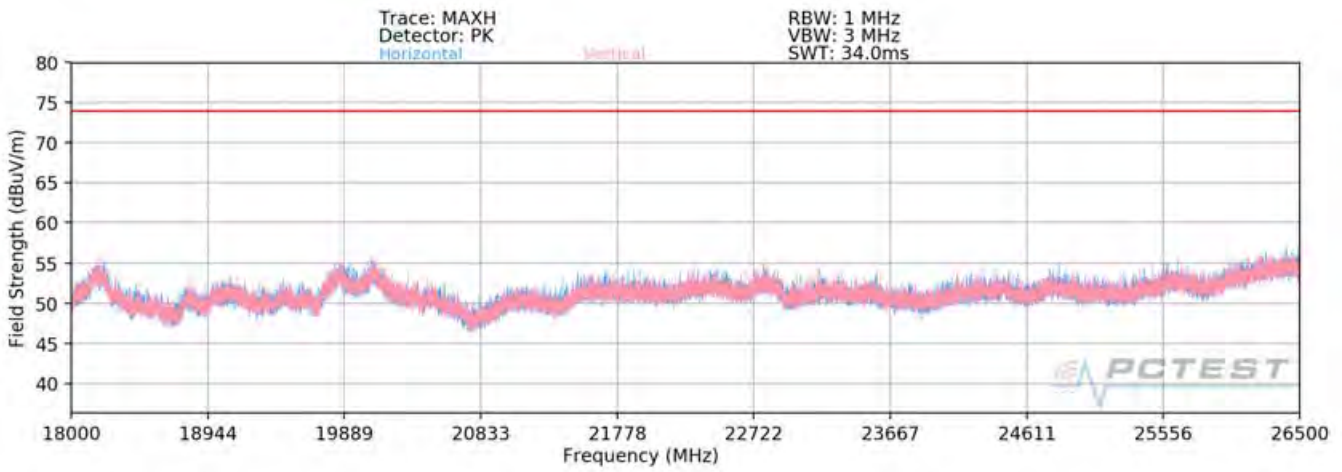


Plot 7-345. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)

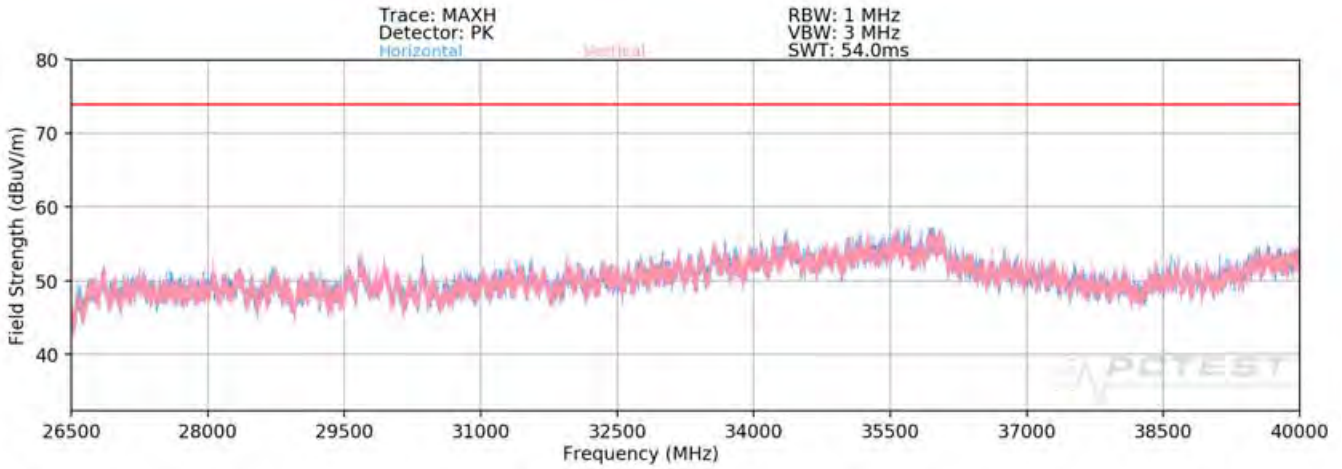


Plot 7-346. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

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



Plot 7-347. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 242 Tones)



Plot 7-348. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 242 Tones)

SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	190	328	-68.91	14.45	0.00	52.54	68.20	-15.66
*	15540.00	Average	V	-	-	-81.22	21.74	0.00	47.52	53.98	-6.46
*	15540.00	Peak	V	-	-	-70.04	21.74	0.00	58.70	73.98	-15.28
*	20720.00	Average	V	-	-	-74.16	17.88	-9.54	41.18	53.98	-12.80
*	20720.00	Peak	V	-	-	-64.72	17.88	-9.54	50.62	73.98	-23.36
	25900.00	Peak	V	-	-	-64.90	20.40	-9.54	52.96	68.20	-15.24

Table 7-104. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	193	330	-68.49	14.60	0.00	53.11	68.20	-15.09
*	15600.00	Average	V	-	-	-81.07	21.90	0.00	47.83	53.98	-6.15
*	15600.00	Peak	V	-	-	-69.38	21.90	0.00	59.52	73.98	-14.46
*	20800.00	Average	V	-	-	-75.81	18.08	-9.54	39.73	53.98	-14.25
*	20800.00	Peak	V	-	-	-66.88	18.08	-9.54	48.66	73.98	-25.32
	26000.00	Peak	V	-	-	-63.57	20.68	-9.54	54.56	68.20	-13.64

Table 7-105. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	198	329	-67.88	14.57	0.00	53.69	68.20	-14.51
*	15720.00	Average	V	-	-	-80.87	22.17	0.00	48.30	53.98	-5.68
*	15720.00	Peak	V	-	-	-69.36	22.17	0.00	59.81	73.98	-14.17
*	20960.00	Average	V	-	-	-75.19	18.46	-9.54	40.73	53.98	-13.25
*	20960.00	Peak	V	-	-	-65.01	18.46	-9.54	50.91	73.98	-23.07
	26200.00	Peak	V	-	-	-63.02	20.96	-9.54	55.40	68.20	-12.80

Table 7-106. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	216	325	-68.48	15.10	0.00	53.62	68.20	-14.58
*	15780.00	Average	V	-	-	-81.34	21.87	0.00	47.53	53.98	-6.45
*	15780.00	Peak	V	-	-	-70.04	21.87	0.00	58.83	73.98	-15.15
*	21040.00	Average	V	-	-	-74.95	18.64	-9.54	41.14	53.98	-12.84
*	21040.00	Peak	V	-	-	-65.26	18.64	-9.54	50.83	73.98	-23.15
	26300.00	Peak	V	-	-	-64.73	21.23	-9.54	53.96	68.20	-14.24

Table 7-107. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	303	341	-68.51	14.95	0.00	53.44	68.20	-14.76
*	15840.00	Average	V	-	-	-81.43	22.33	0.00	47.90	53.98	-6.08
*	15840.00	Peak	V	-	-	-70.39	22.33	0.00	58.94	73.98	-15.04
*	21120.00	Average	V	-	-	-74.26	18.80	-9.54	42.00	53.98	-11.98
*	21120.00	Peak	V	-	-	-65.31	18.80	-9.54	50.95	73.98	-23.03
	26400.00	Peak	V	-	-	-63.91	21.49	-9.54	55.03	68.20	-13.17

Table 7-108. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	213	343	-71.51	15.37	0.00	50.86	53.98	-3.12
*	10640.00	Peak	V	-	-	-80.41	15.37	0.00	41.96	73.98	-32.02
*	15960.00	Average	V	-	-	-82.17	22.27	0.00	47.10	53.98	-6.88
*	15960.00	Peak	V	-	-	-70.35	22.27	0.00	58.92	73.98	-15.06
*	21280.00	Average	V	-	-	-74.79	18.76	-9.54	41.43	53.98	-12.55
*	21280.00	Peak	V	-	-	-65.93	18.76	-9.54	50.29	73.98	-23.69
	26600.00	Peak	V	-	-	-64.24	6.35	-9.54	39.56	68.20	-28.64

Table 7-109. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	152	345	-72.27	16.28	0.00	51.01	53.98	-2.97
*	11000.00	Peak	V	-	-	-80.24	16.28	0.00	43.04	73.98	-30.94
	16500.00	Peak	V	-	-	-70.29	23.88	0.00	60.59	68.20	-7.61
	22000.00	Peak	V	-	-	-64.99	19.37	-9.54	51.84	68.20	-16.36
	27500.00	Peak	V	-	-	-53.33	5.07	-9.54	49.20	68.20	-19.00

Table 7-110. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	190	340	-80.04	16.05	0.00	43.01	53.98	-10.97
*	11200.00	Peak	V	190	340	-68.68	16.05	0.00	54.37	73.98	-19.61
	16800.00	Peak	V	-	-	-69.29	24.05	0.00	61.76	68.20	-6.44
*	22400.00	Average	V	-	-	-74.44	20.25	-9.54	43.26	53.98	-10.72
*	22400.00	Peak	V	-	-	-66.30	20.25	-9.54	51.40	73.98	-22.58
	28000.00	Peak	V	-	-	-53.48	6.42	-9.54	50.40	68.20	-17.80

Table 7-111. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	173	9	-80.55	17.03	0.00	43.48	53.98	-10.50
*	11440.00	Peak	V	173	9	-68.92	17.03	0.00	55.11	73.98	-18.87
	17160.00	Peak	V	-	-	-68.26	23.47	0.00	62.21	68.20	-5.99
*	22880.00	Average	V	-	-	-73.30	19.64	-9.54	43.80	53.98	-10.18
*	22880.00	Peak	V	-	-	-65.03	19.64	-9.54	52.07	73.98	-21.91
	28600.00	Peak	V	-	-	-53.42	5.12	-9.54	49.15	68.20	-19.05

Table 7-112. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	108	359	-73.26	16.80	0.00	50.54	53.98	-3.44
*	11490.00	Peak	V	108	359	-69.58	16.80	0.00	54.22	73.98	-19.76
	17235.00	Peak	V	-	-	-69.57	24.70	0.00	62.13	68.20	-6.07
*	22980.00	Average	V	-	-	-75.19	19.39	-9.54	41.66	53.98	-12.32
*	22980.00	Peak	V	-	-	-65.32	19.39	-9.54	51.53	73.98	-22.45
	28725.00	Peak	V	-	-	-52.20	6.24	-9.54	51.50	68.20	-16.70

Table 7-113. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	234	176	-73.58	16.48	0.00	49.90	53.98	-4.08
*	11570.00	Peak	V	234	176	-69.85	16.48	0.00	53.63	73.98	-20.35
	17355.00	Peak	V	-	-	-70.84	25.37	0.00	61.53	68.20	-6.67
	23140.00	Peak	V	-	-	-65.62	19.78	-9.54	51.61	68.20	-16.59
	28925.00	Peak	V	-	-	-54.50	5.18	-9.54	48.14	68.20	-20.06

Table 7-114. Radiated Measurements SISO ANT2 (242 Tones)

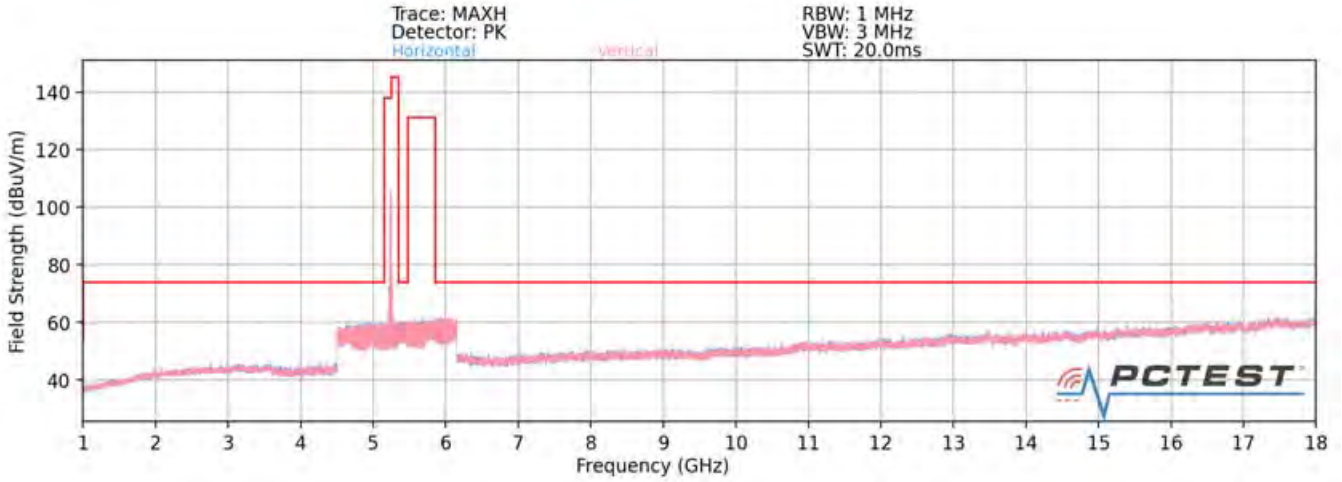
Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

	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	V	-	-	-74.11	16.99	0.00	49.88	53.98	-4.09
*	11650.00	Peak	V	-	-	-69.93	16.99	0.00	54.06	73.98	-19.91
	17475.00	Peak	V	-	-	-70.68	25.73	0.00	62.05	68.20	-6.15
	23300.00	Peak	V	-	-	-64.88	20.06	-9.54	52.64	68.20	-15.56
	29125.00	Peak	V	-	-	-52.75	4.94	-9.54	49.65	68.20	-18.55

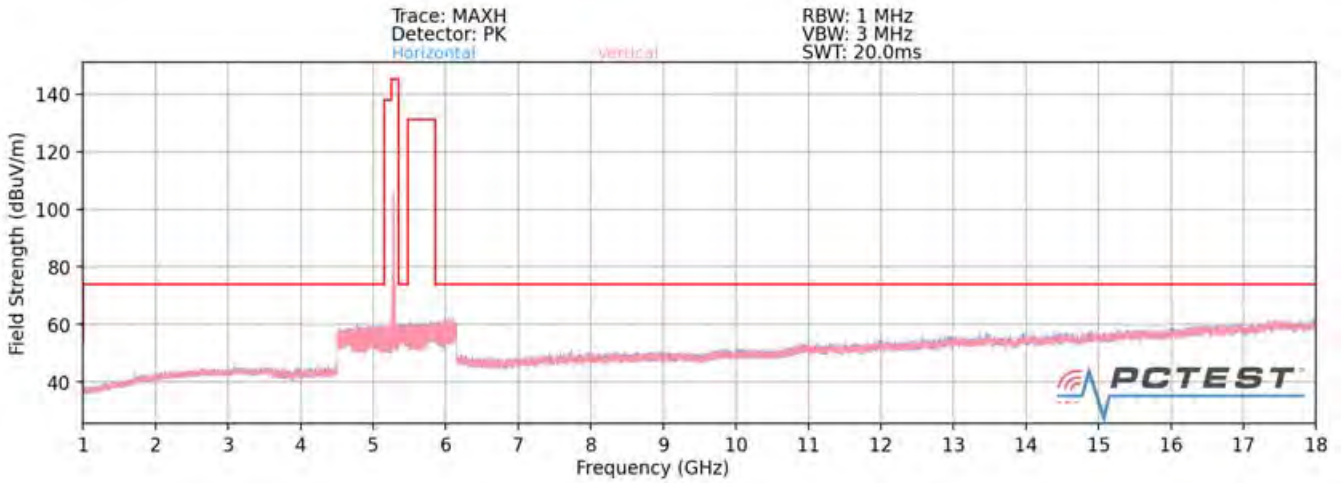
Table 7-115. Radiated Measurements SISO ANT2 (242 Tones)

7.6.3 MIMO Radiated Spurious Emission Measurements

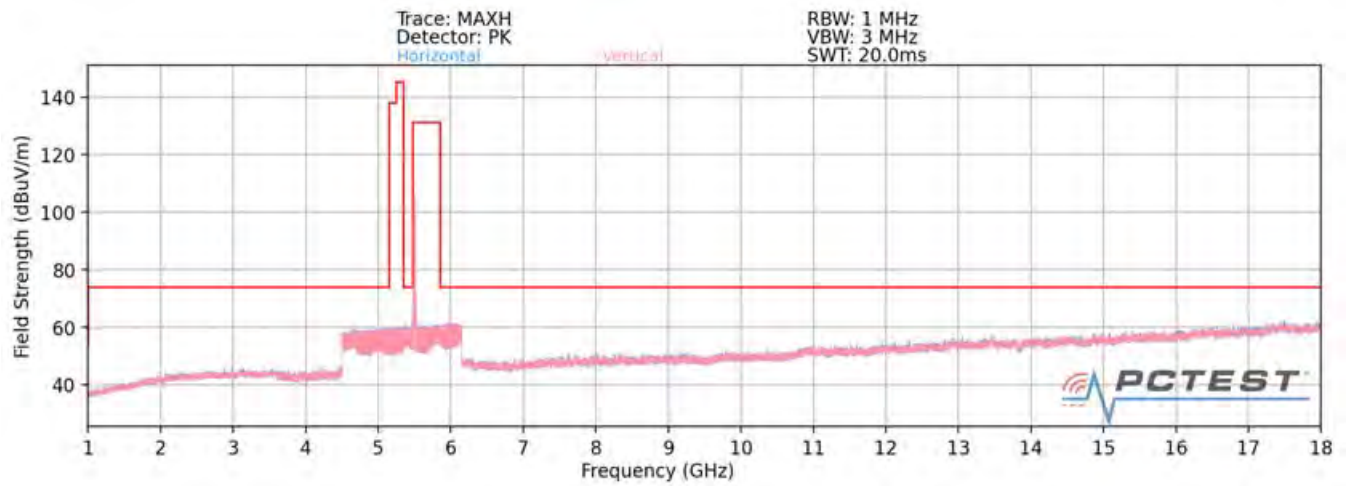
242 Tones



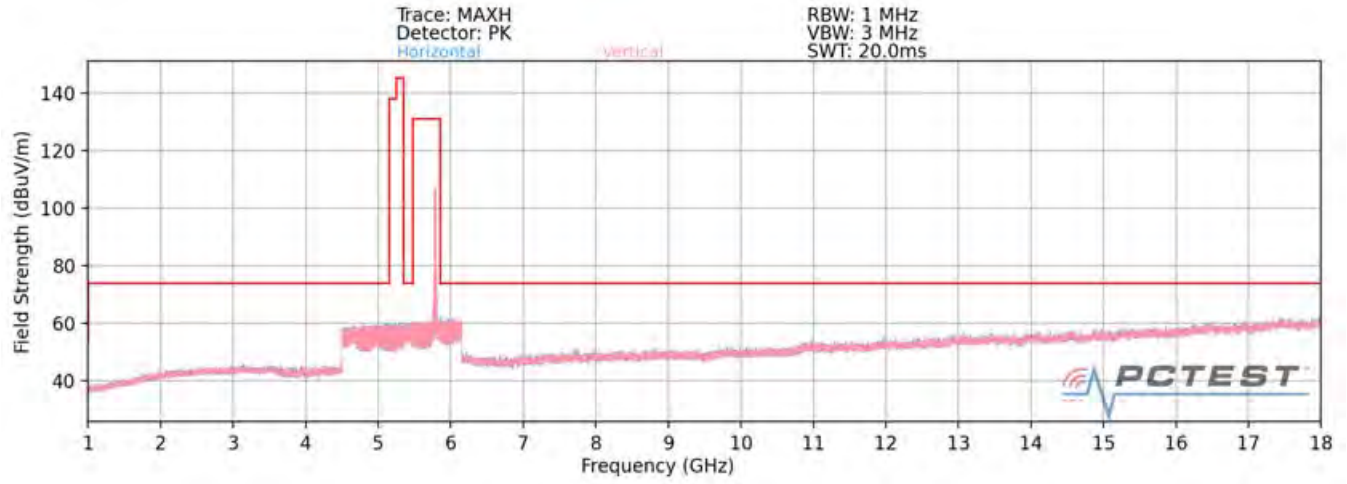
Plot 7-349. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones)



Plot 7-350. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones)

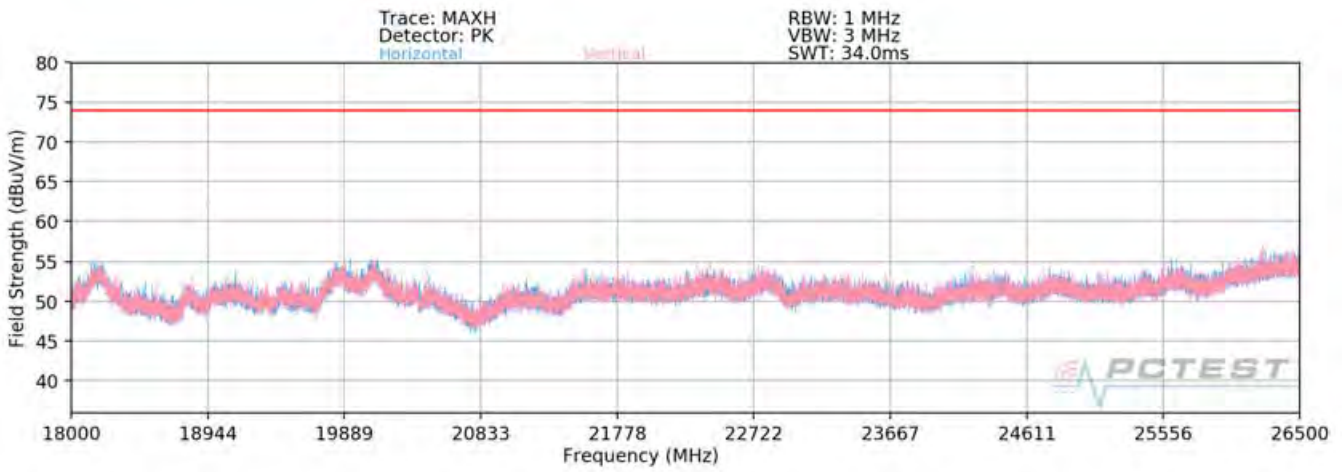


Plot 7-351. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones)

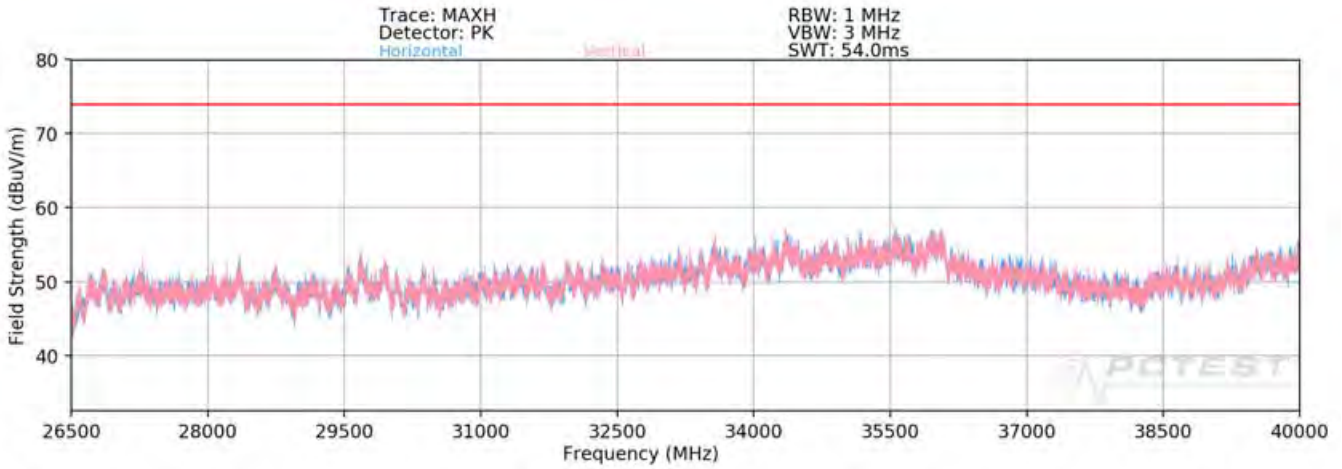


Plot 7-352. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones)

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-353. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones)



Plot 7-354. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones)

MIMO Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	325	332	-68.63	14.45	0.00	52.82	68.20	-15.38
*	15540.00	Average	V	-	-	-81.47	21.74	0.00	47.27	53.98	-6.71
*	15540.00	Peak	V	-	-	-69.53	21.74	0.00	59.21	73.98	-14.77
*	20720.00	Average	V	-	-	-75.42	17.88	-9.54	39.92	53.98	-14.06
*	20720.00	Peak	V	-	-	-66.09	17.88	-9.54	49.25	73.98	-24.73
	25900.00	Peak	V	-	-	-64.99	20.40	-9.54	52.87	68.20	-15.33

Table 7-116. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	317	324	-69.44	14.60	0.00	52.16	68.20	-16.04
*	15600.00	Average	V	-	-	-81.23	21.90	0.00	47.67	53.98	-6.31
*	15600.00	Peak	V	-	-	-69.88	21.90	0.00	59.02	73.98	-14.96
*	20800.00	Average	V	-	-	-76.13	18.08	-9.54	39.41	53.98	-14.57
*	20800.00	Peak	V	-	-	-66.01	18.08	-9.54	49.53	73.98	-24.45
	26000.00	Peak	V	-	-	-64.02	20.68	-9.54	54.11	68.20	-14.09

Table 7-117. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	320	341	-68.77	14.57	0.00	52.80	68.20	-15.40
*	15720.00	Average	V	-	-	-81.28	22.17	0.00	47.89	53.98	-6.09
*	15720.00	Peak	V	-	-	-69.59	22.17	0.00	59.58	73.98	-14.40
*	20960.00	Average	V	-	-	-75.57	18.46	-9.54	40.35	53.98	-13.63
*	20960.00	Peak	V	-	-	-64.54	18.46	-9.54	51.38	73.98	-22.60
	26200.00	Peak	V	-	-	-63.18	20.96	-9.54	55.24	68.20	-12.96

Table 7-118. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	256	7	-69.61	15.10	0.00	52.49	68.20	-15.71
*	15780.00	Average	V	-	-	-81.41	21.87	0.00	47.46	53.98	-6.52
*	15780.00	Peak	V	-	-	-69.77	21.87	0.00	59.10	73.98	-14.88
*	21040.00	Average	V	-	-	-74.34	18.64	-9.54	41.75	53.98	-12.23
*	21040.00	Peak	V	-	-	-65.38	18.64	-9.54	50.71	73.98	-23.27
	26300.00	Peak	V	-	-	-63.09	21.23	-9.54	55.60	68.20	-12.60

Table 7-119. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	291	347	-69.36	14.95	0.00	52.59	68.20	-15.61
*	15840.00	Average	V	-	-	-81.46	22.33	0.00	47.87	53.98	-6.11
*	15840.00	Peak	V	-	-	-70.06	22.33	0.00	59.27	73.98	-14.71
*	21120.00	Average	V	-	-	-74.48	18.80	-9.54	41.78	53.98	-12.20
*	21120.00	Peak	V	-	-	-64.04	18.80	-9.54	52.22	73.98	-21.76
	26400.00	Peak	V	-	-	-62.70	21.49	-9.54	56.24	68.20	-11.96

Table 7-120. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	348	84	-81.13	15.37	0.00	41.24	53.98	-12.74
*	10640.00	Peak	V	348	84	-69.29	15.37	0.00	53.08	73.98	-20.90
*	15960.00	Average	V	-	-	-81.68	22.27	0.00	47.59	53.98	-6.39
*	15960.00	Peak	V	-	-	-69.79	22.27	0.00	59.48	73.98	-14.50
*	21280.00	Average	V	-	-	-74.89	18.76	-9.54	41.33	53.98	-12.65
*	21280.00	Peak	V	-	-	-66.28	18.76	-9.54	49.94	73.98	-24.04
	26600.00	Peak	V	-	-	-65.26	6.35	-9.54	38.54	68.20	-29.66

Table 7-121. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	119	8	-80.29	16.28	0.00	42.99	53.98	-10.99
*	11000.00	Peak	V	119	8	-68.61	16.28	0.00	54.67	73.98	-19.31
	16500.00	Peak	V	-	-	-70.17	23.88	0.00	60.71	68.20	-7.49
	22000.00	Peak	V	-	-	-64.38	19.37	-9.54	52.45	68.20	-15.75
	27500.00	Peak	V	-	-	-53.88	5.07	-9.54	48.65	68.20	-19.55

Table 7-122. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5580MHz
Channel:	116

	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	V	206	346	-80.00	16.05	0.00	43.05	53.98	-10.93
*	11200.00	Peak	V	206	346	-68.18	16.05	0.00	54.87	73.98	-19.11
	16800.00	Peak	V	-	-	-70.16	24.05	0.00	60.89	68.20	-7.31
*	22400.00	Average	V	-	-	-74.54	20.25	-9.54	43.16	53.98	-10.82
*	22400.00	Peak	V	-	-	-63.53	20.25	-9.54	54.17	73.98	-19.81
	28000.00	Peak	V	-	-	-54.01	6.42	-9.54	49.87	68.20	-18.33

Table 7-123. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5700MHz
Channel:	140

	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	V	208	356	-80.71	17.03	0.00	43.32	53.98	-10.66
*	11440.00	Peak	V	208	356	-68.92	17.03	0.00	55.11	73.98	-18.87
	17160.00	Peak	V	-	-	-70.26	23.47	0.00	60.21	68.20	-7.99
*	22880.00	Average	V	-	-	-73.60	19.64	-9.54	43.50	53.98	-10.48
*	22880.00	Peak	V	-	-	-64.53	19.64	-9.54	52.57	73.98	-21.41
	28600.00	Peak	V	-	-	-54.69	5.12	-9.54	47.88	68.20	-20.32

Table 7-124. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	178	1	-80.72	16.80	0.00	43.08	53.98	-10.90
*	11490.00	Peak	V	178	1	-69.41	16.80	0.00	54.39	73.98	-19.59
	17235.00	Peak	V	-	-	-70.20	24.70	0.00	61.50	68.20	-6.70
*	22980.00	Average	V	-	-	-75.39	19.39	-9.54	41.46	53.98	-12.52
*	22980.00	Peak	V	-	-	-65.89	19.39	-9.54	50.96	73.98	-23.02
	28725.00	Peak	V	-	-	-53.99	6.24	-9.54	49.71	68.20	-18.49

Table 7-125. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	189	357	-80.38	16.48	0.00	43.10	53.98	-10.88
*	11570.00	Peak	V	189	357	-69.31	16.48	0.00	54.17	73.98	-19.81
	17355.00	Peak	V	-	-	-70.29	25.37	0.00	62.08	68.20	-6.12
	23140.00	Peak	V	-	-	-63.42	19.78	-9.54	53.81	68.20	-14.39
	28925.00	Peak	V	-	-	-54.10	5.18	-9.54	48.54	68.20	-19.66

Table 7-126. Radiated Measurements MIMO (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	V	392	355	-80.79	16.99	0.00	43.20	53.98	-10.77
*	11650.00	Peak	V	392	355	-68.22	16.99	0.00	55.77	73.98	-18.20
	17475.00	Peak	V	-	-	-70.49	25.73	0.00	62.24	68.20	-5.96
	23300.00	Peak	V	-	-	-64.14	20.06	-9.54	53.38	68.20	-14.82
	29125.00	Peak	V	-	-	-51.53	4.94	-9.54	50.87	68.20	-17.33

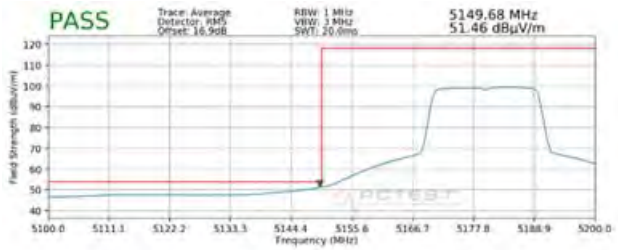
Table 7-127. Radiated Measurements MIMO (242 Tones)

7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

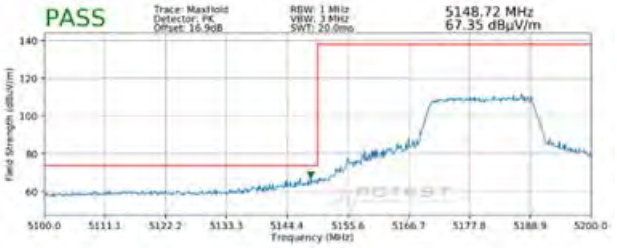
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

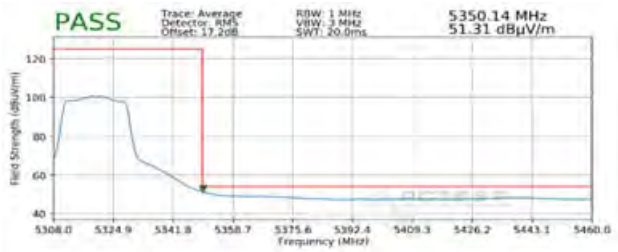


Plot 7-355. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

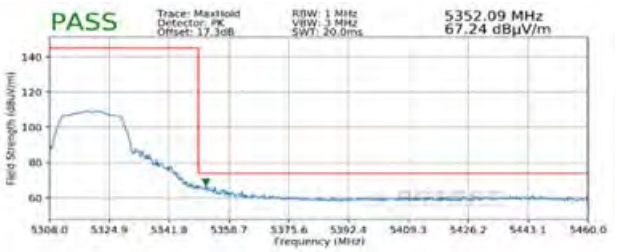


Plot 7-356. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64

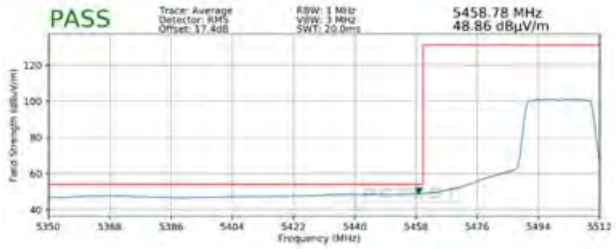


Plot 7-357. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)

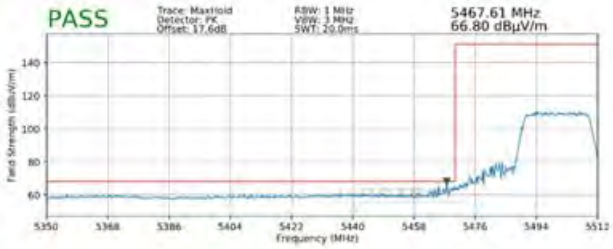


Plot 7-358. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

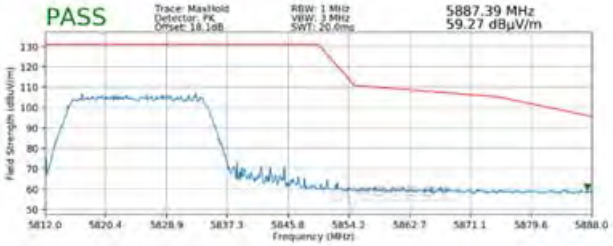


Plot 7-359. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-360. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



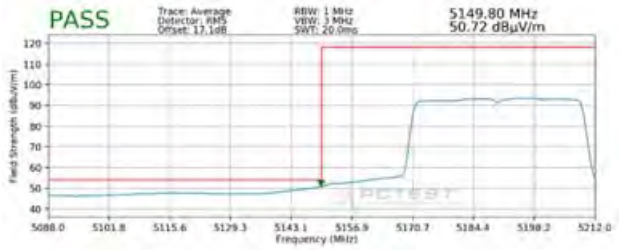
Plot 7-361. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

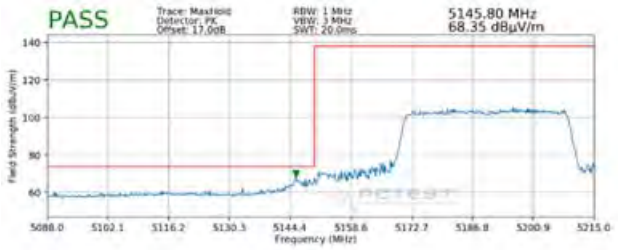
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

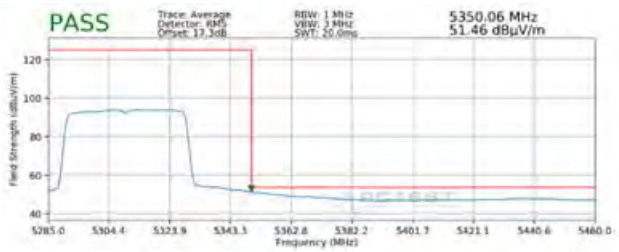


Plot 7-362. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

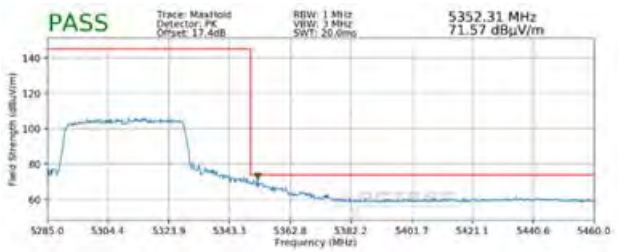


Plot 7-363. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62

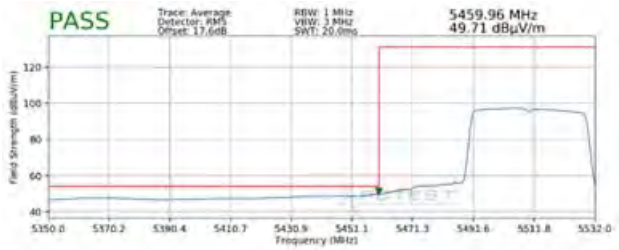


Plot 7-364. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)

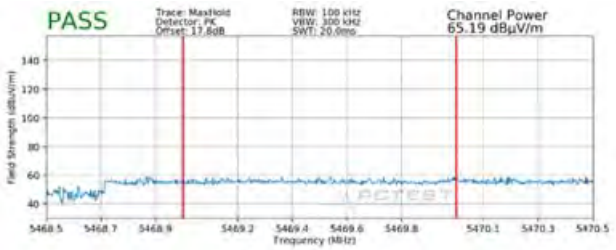


Plot 7-365. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

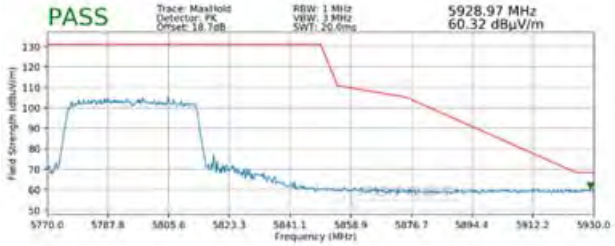


Plot 7-366. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-367. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



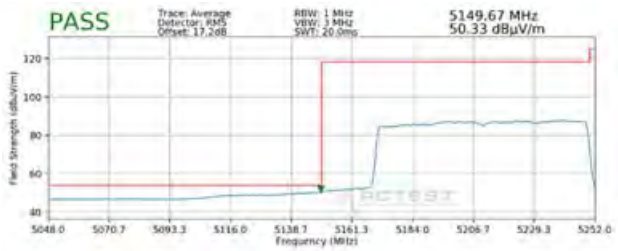
Plot 7-368. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

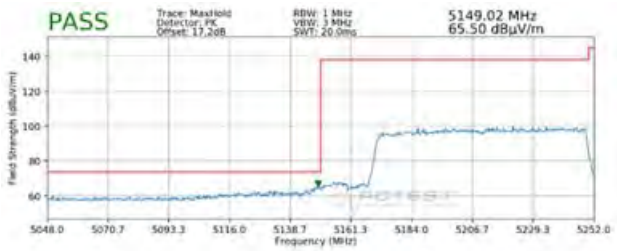
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



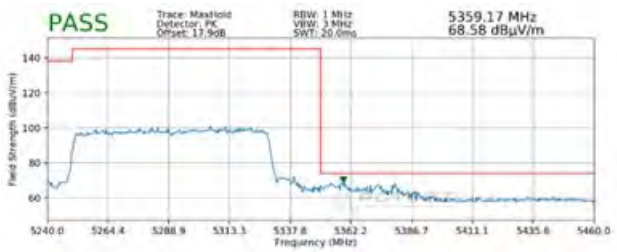
Plot 7-369. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)



Plot 7-370. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

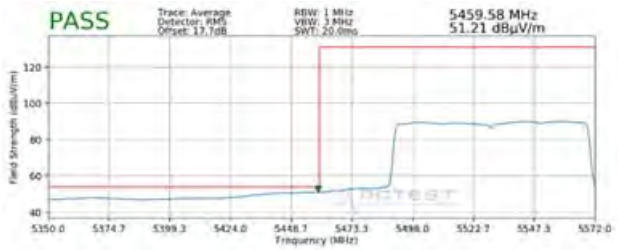
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58

Plot 7-371. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)

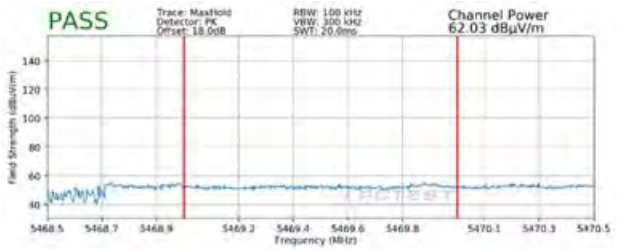


Plot 7-372. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

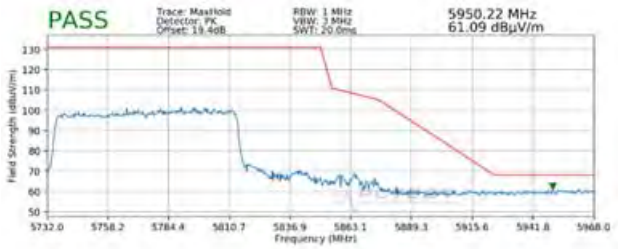


Plot 7-373. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-374. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



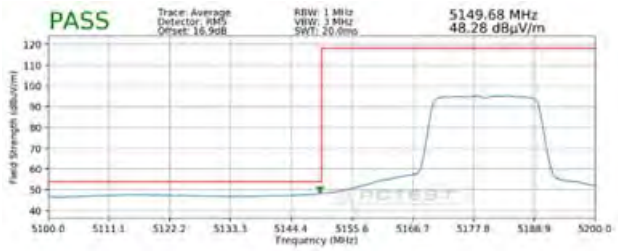
Plot 7-375. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

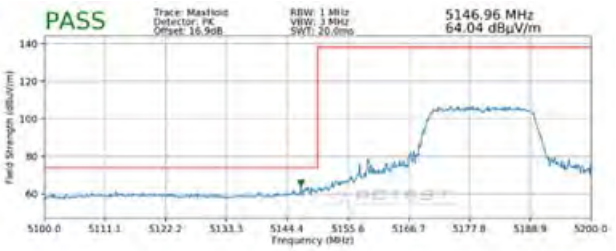
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

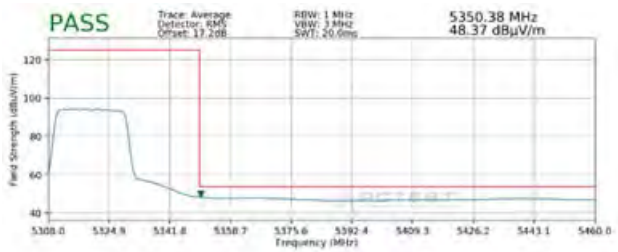


Plot 7-376. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

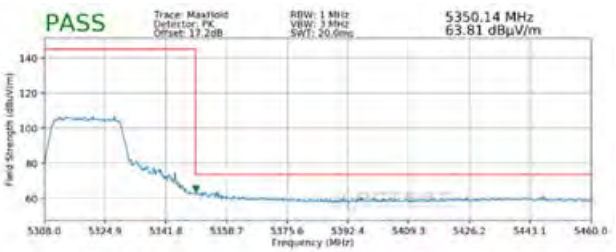


Plot 7-377. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64

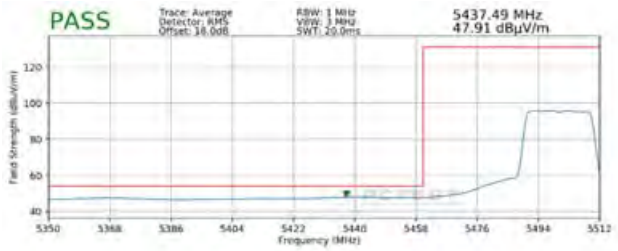


Plot 7-378. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)

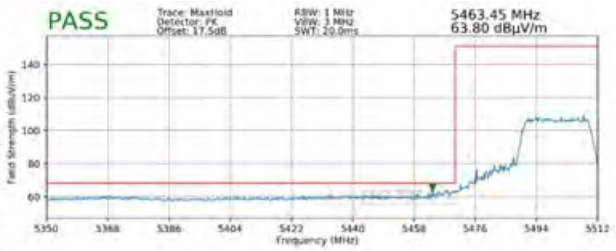


Plot 7-379. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

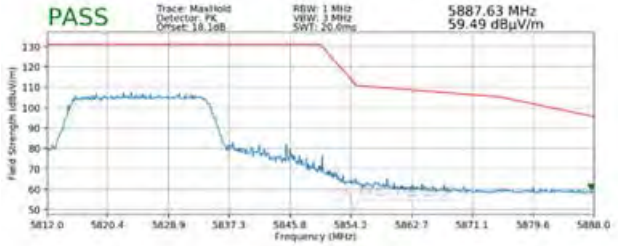


Plot 7-380. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-381. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



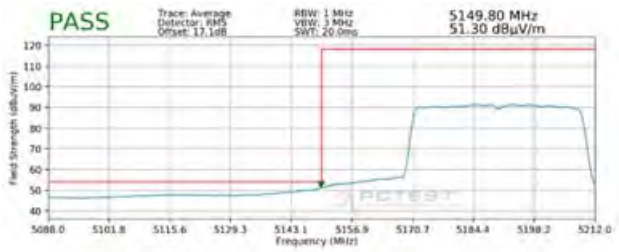
Plot 7-382. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

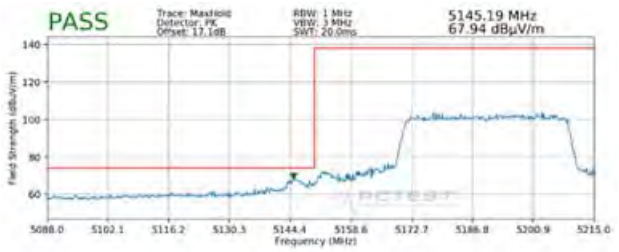
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



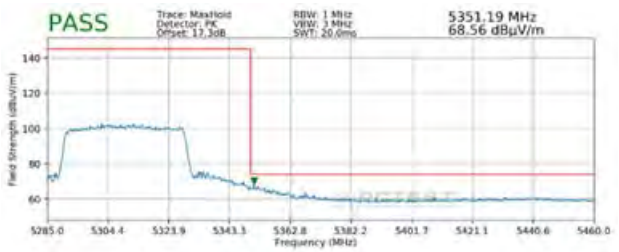
Plot 7-383. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)



Plot 7-384. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

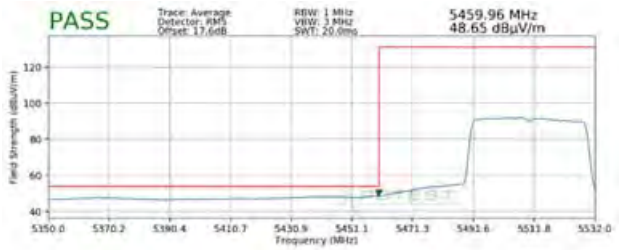
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62

Plot 7-385. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)

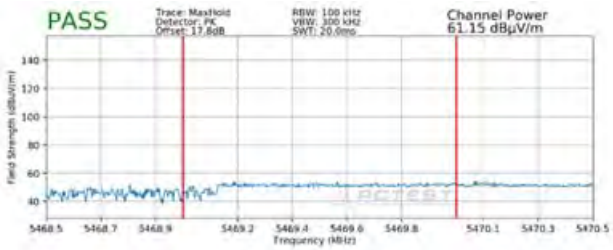


Plot 7-386. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

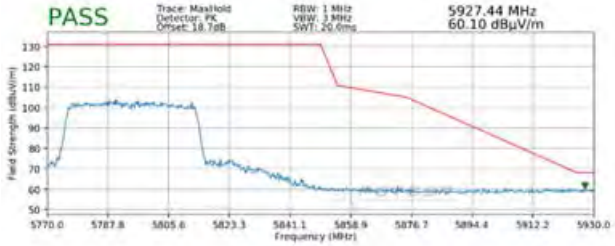


Plot 7-387. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-388. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



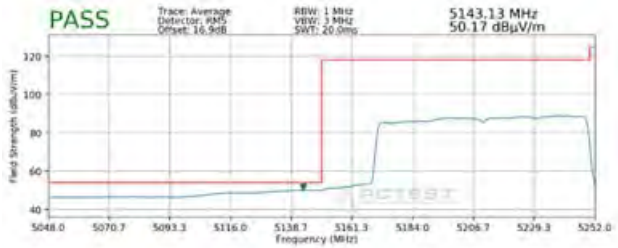
Plot 7-389. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

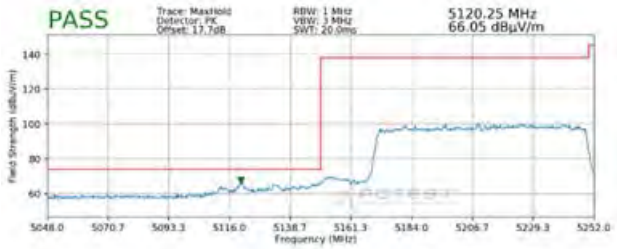
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

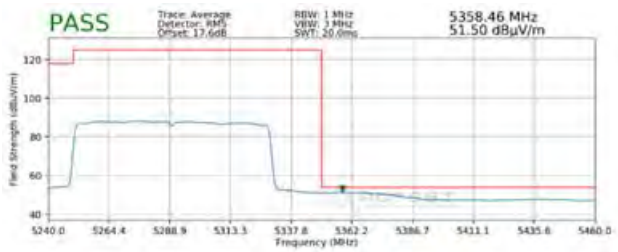


Plot 7-390. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

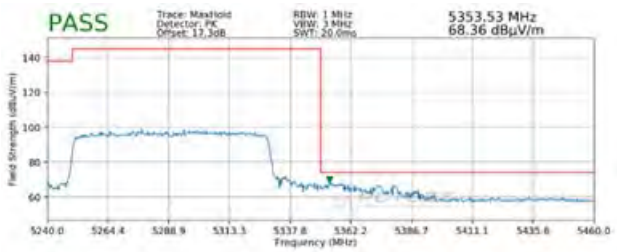


Plot 7-391. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58

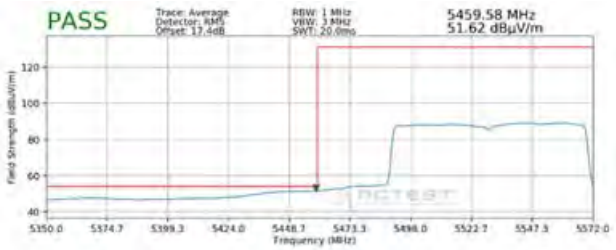


Plot 7-392. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 996 Tones)

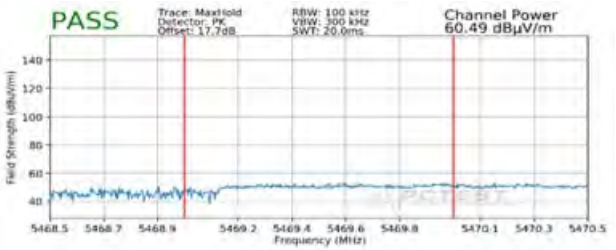


Plot 7-393. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

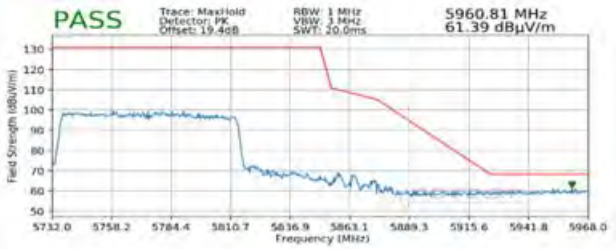


Plot 7-394. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-395. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-396. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

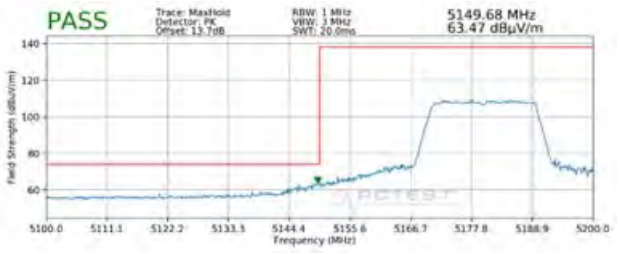
7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

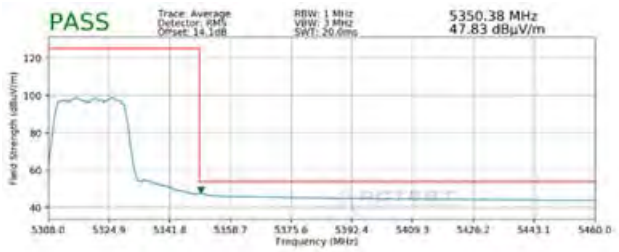
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

Plot 7-397. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

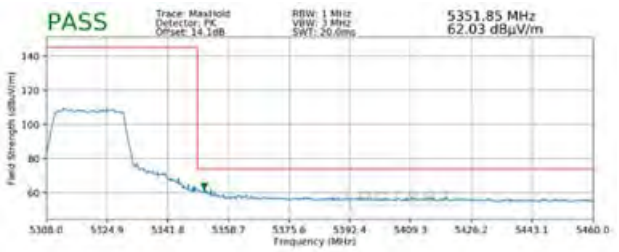


Plot 7-398. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64

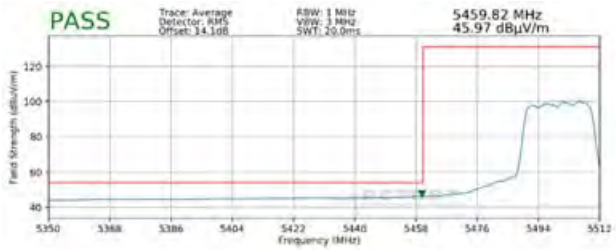


Plot 7-399. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)

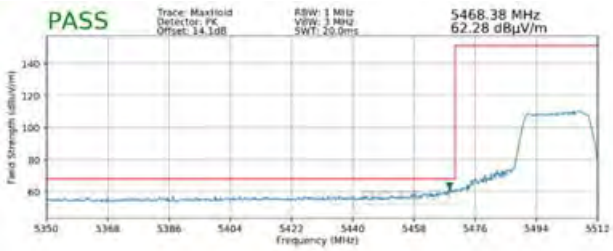


Plot 7-400. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

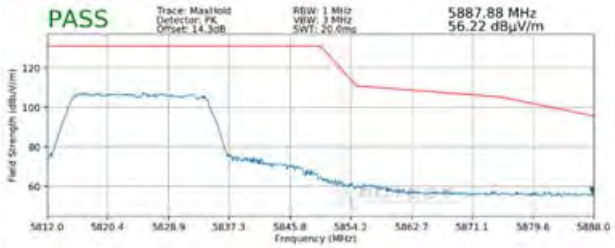


Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-402. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-403. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

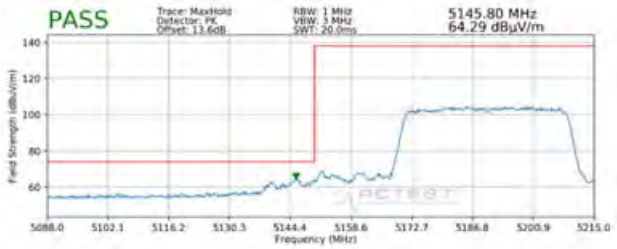
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

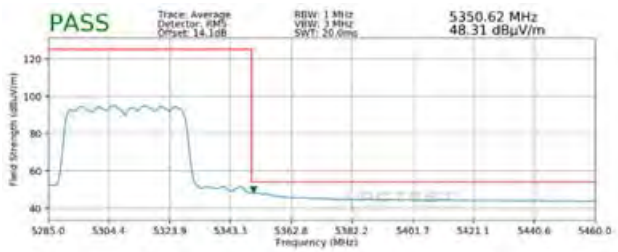
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

Plot 7-404. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 484 Tones)

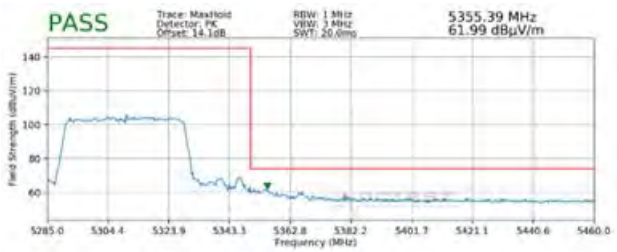


Plot 7-405. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62

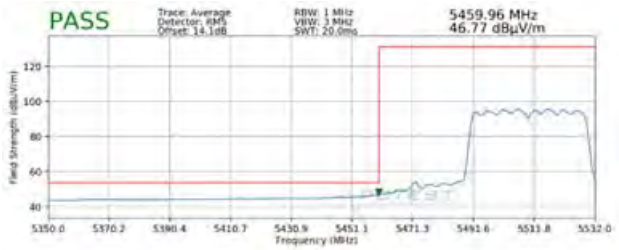


Plot 7-406. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 484 Tones)

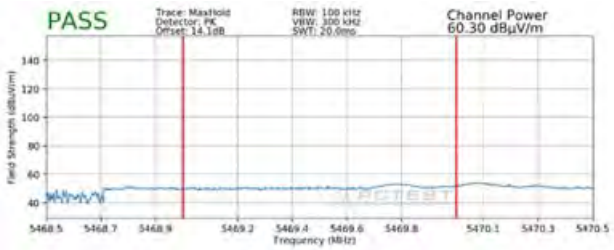


Plot 7-407. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

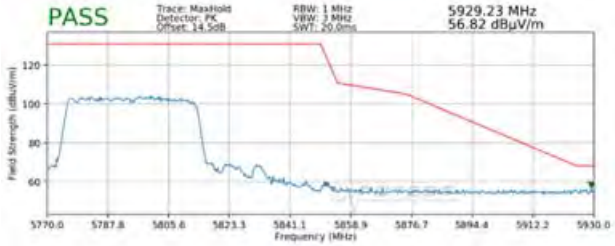


Plot 7-408. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-409. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



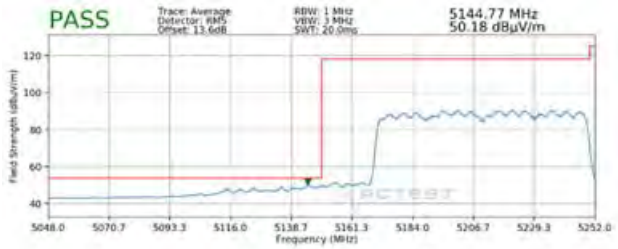
Plot 7-410. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW)

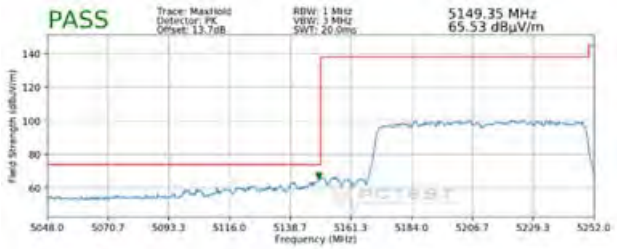
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

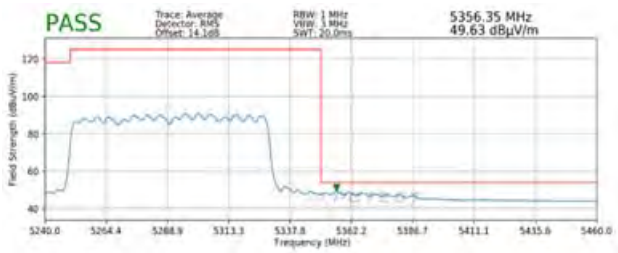


Plot 7-411. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

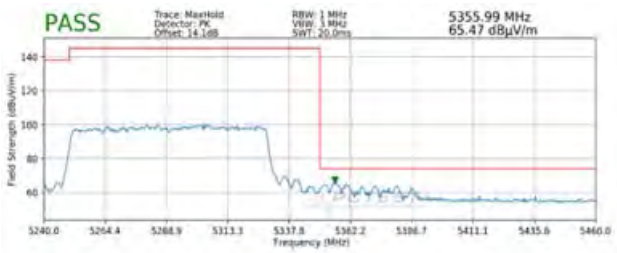


Plot 7-412. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58

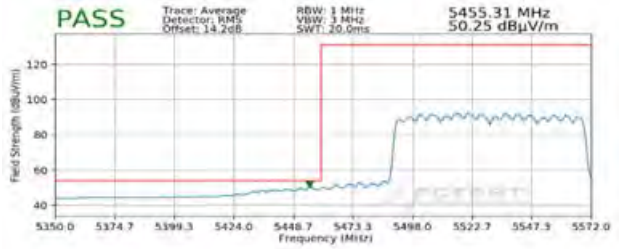


Plot 7-413. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)

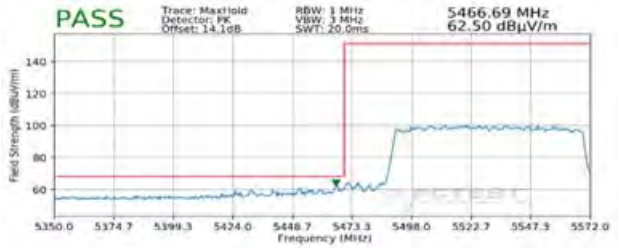


Plot 7-414. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

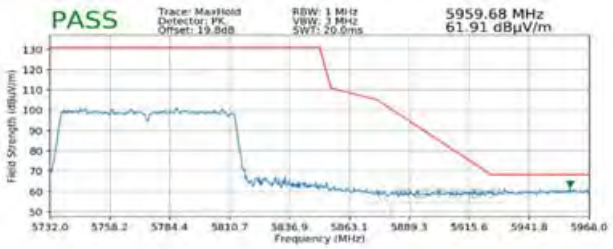


Plot 7-415. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-416. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-417. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

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 7-128 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [µV/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 7-128. 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

Test Setup

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

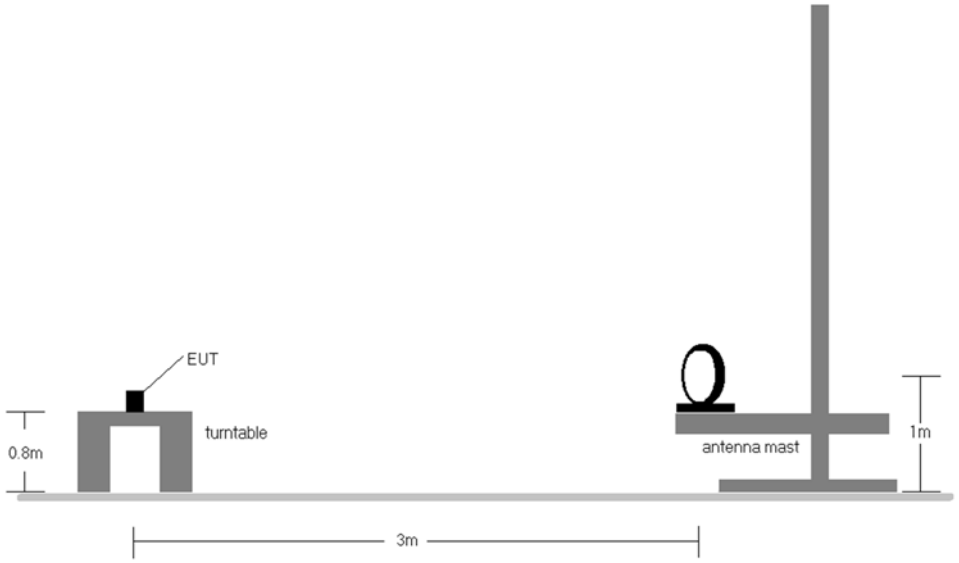


Figure 7-6. Radiated Test Setup < 30MHz

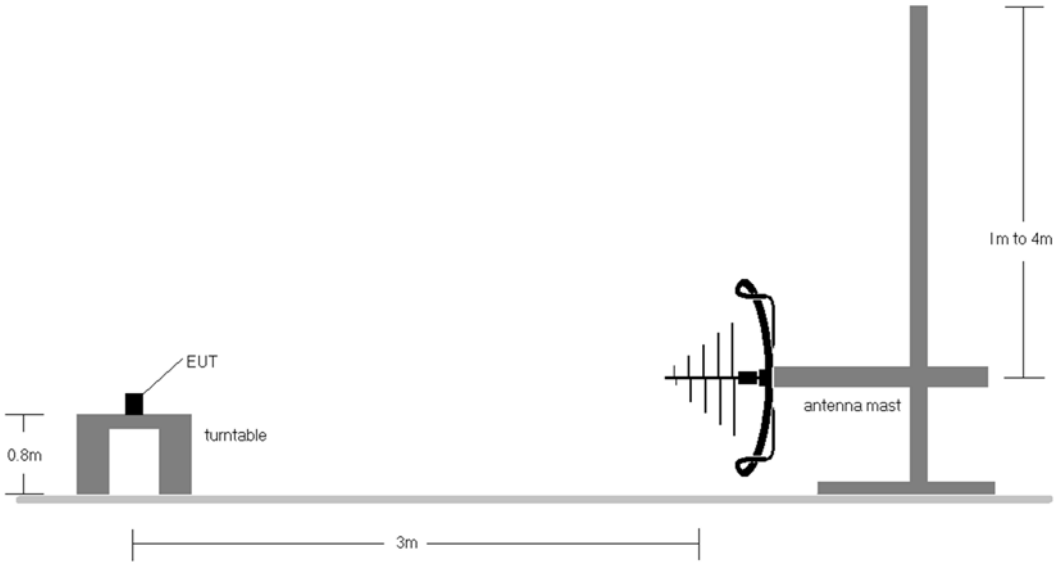


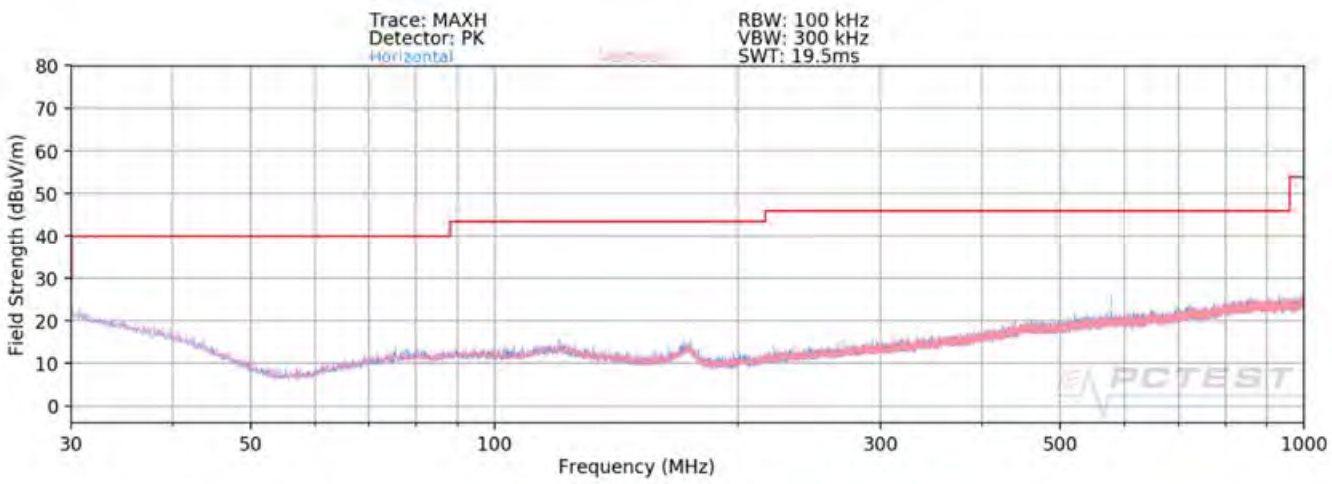
Figure 7-7. Radiated Test Setup < 1GHz

Test Notes

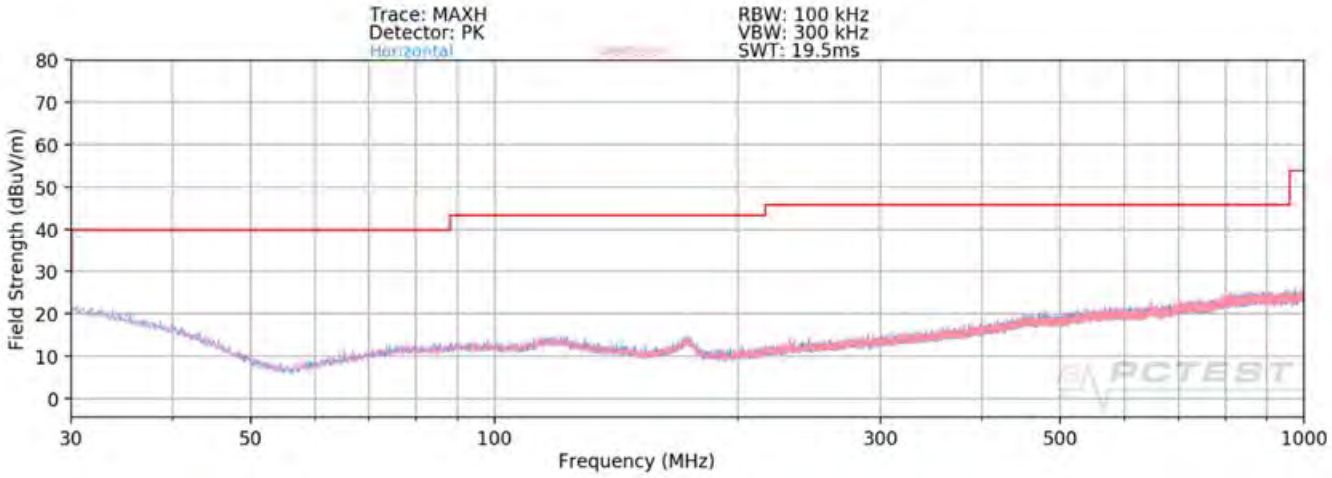
1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-128.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This 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.

MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-418. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 26 Tones – U3 Ch. 157)



Plot 7-419. Radiated Spurious Plot below 1GHz MIMO (802.11ax – 242 Tones – U3 Ch. 157)

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSCG06** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.