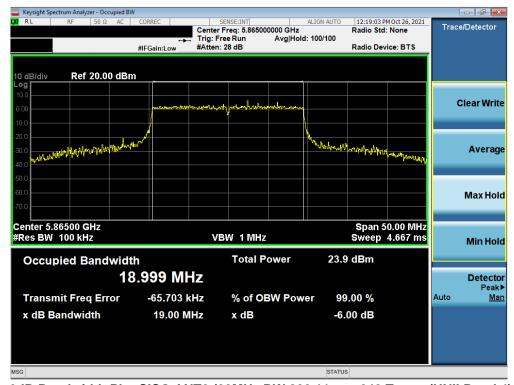


Plot 7-127. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3/4) - Ch. 169)

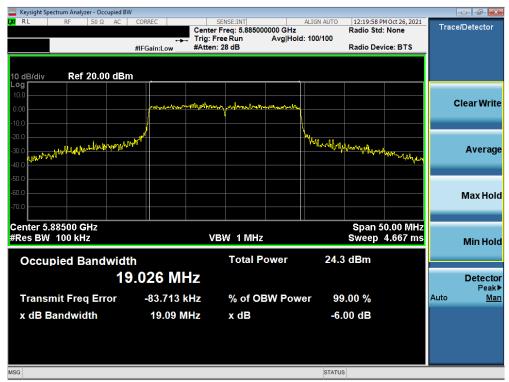


Plot 7-128. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 02 of 200	
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 93 of 309	
© 2022 PCTEST			V 9.0 02/01/2019	

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





Plot 7-129. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 177)



Plot 7-130. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMS901JPN	PCTEST* Proud to be part of selement	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 04 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 94 of 309
© 2022 DCTEST			\/ 0 0 02/01/2010





Plot 7-131. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 175)



Plot 7-132. 6dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 05 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 95 of 309
© 2022 PCTEST	•	<u> </u>	V 9.0 02/01/2019



7.4 UNII Output Power Measurement – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or 10 + 10 log10B, dBm.

In the 5.25 - 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10log_{10}(26$ dB BW) = 11 dBm + $10log_{10}(17.99)$ = 23.55 dBm. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10log_{10}(26dB \ BW) = 11 \ dBm + <math>10log_{10}(17.99) = 23.55 \ dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

In the 5.850 - 5.895 GHz band, the maximum permissible e.i.r.p is 30dBm.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 06 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 96 of 309



SISO Antenna-1 Conducted Output Power Measurements (26 Tones)

	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
					0	4	8	[dBm]	Margin [dB]
N (5180	36	AVG	26T	10.76	10.61	10.75	23.98	-13.22
¥ ב	5200	40	AVG	26T	10.71	10.97	10.98	23.98	-13.00
돌풍	5240	48	AVG	26T	10.88	10.96	10.59	23.98	-13.02
 	5260	52	AVG	26T	10.45	10.57	10.61	23.47	-12.86
<u>S</u> <u>≥</u>	5280	56	AVG	26T	10.46	10.56	10.53	23.47	-12.91
N S	5320	64	AVG	26T	10.56	10.67	10.60	23.47	-12.80
一声	5500	100	AVG	26T	10.87	10.97	10.57	22.80	-11.83
(D)	5600	120	AVG	26T	10.75	10.89	10.88	22.80	-11.91
5	5720	144	AVG	26T	10.85	10.94	10.95	22.80	-11.85
	5745	149	AVG	26T	10.60	10.75	10.72	30.00	-19.25
	5785	157	AVG	26T	10.57	10.73	10.71	30.00	-19.27
	5825	165	AVG	26T	10.57	10.71	10.66	30.00	-19.29

Table 7-14. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

N _	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
Ϊ́Ξ 🤝					0	8	17	[dBm]	Margin [dB]
夏黄	5190	38	AVG	26T	10.59	10.82	10.53	23.98	-13.16
E. B	5230	46	AVG	26T	10.85	10.89	10.52	23.98	-13.09
4 ≥	5270	54	AVG	26T	10.93	10.99	10.58	23.47	-12.48
	5310	62	AVG	26T	10.98	10.94	10.97	23.47	-12.49
무드	5510	102	AVG	26T	10.64	10.82	10.62	22.80	-11.98
完 Sa	5590	118	AVG	26T	10.80	10.89	10.51	22.80	-11.91
5G B	5710	142	AVG	26T	10.55	10.99	10.63	22.80	-11.81
	5755	151	AVG	26T	10.76	10.86	10.91	30.00	-19.09
	5795	159	AVG	26T	10.58	10.86	10.71	30.00	-19.14

Table 7-15. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Z	Freq [MHz] Channel		Channel Detector		RU Index			Conducted Power Limit	Conducted Power
MHz (h)					0	18	36	[dBm]	Margin [dB]
(80MI	5210	42	AVG	26T	10.96	10.89	10.71	23.98	-13.02
	5290	58	AVG	26T	10.75	10.84	10.49	23.47	-12.63
GHz Band	5530	106	AVG	26T	10.69	10.83	10.51	22.80	-11.97
GF Ba	5610	122	AVG	26T	10.98	10.54	10.62	22.80	-11.82
5	5690	138	AVG	26T	10.92	10.47	10.51	22.80	-11.88
	5775	155	AVG	26T	10.81	10.98	10.73	30.00	-19.02

Table 7-16. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 07 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 97 of 309



SISO Antenna-1 Conducted Output Power Measurements (52 Tones)

	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
					37	39	40	[dBm]	Margin [dB]
N (5180	36	AVG	52T	13.16	13.45	13.48	23.98	-10.50
¥ ב	5200	40	AVG	52T	13.17	13.34	13.38	23.98	-10.60
돌풍	5240	48	AVG	52T	13.32	13.42	13.39	23.98	-10.56
	5260	52	AVG	52T	13.41	13.47	13.48	23.47	-9.99
<u>S</u> <u>≥</u>	5280	56	AVG	52T	13.39	13.46	13.43	23.47	-10.01
N S	5320	64	AVG	52T	13.18	13.24	13.18	23.47	-10.23
E E	5500	100	AVG	52T	13.42	13.04	13.01	22.80	-9.38
(D)	5600	120	AVG	52T	13.01	13.10	13.03	22.80	-9.70
5	5720	144	AVG	52T	13.32	13.42	13.31	22.80	-9.38
	5745	149	AVG	52T	13.45	13.05	13.01	30.00	-16.55
	5785	157	AVG	52T	13.28	13.38	13.33	30.00	-16.62
	5825	165	AVG	52T	13.33	13.44	13.43	30.00	-16.56

Table 7-17. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

N _	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
Ϊ́Ξ 🤝					37	40	44	[dBm]	Margin [dB]
巨芸	5190	38	AVG	52T	13.13	13.22	13.49	23.98	-10.49
E. B	5230	46	AVG	52T	13.19	13.29	13.34	23.98	-10.64
4 ≥	5270	54	AVG	52T	13.37	13.31	13.33	23.47	-10.10
	5310	62	AVG	52T	13.16	13.48	13.16	23.47	-9.99
무드	5510	102	AVG	52T	13.06	13.10	13.26	22.80	-9.54
完 Sa	5590	118	AVG	52T	13.18	13.15	13.29	22.80	-9.51
5G B	5710	142	AVG	52T	13.14	13.16	13.19	22.80	-9.61
	5755	151	AVG	52T	13.32	13.29	13.39	30.00	-16.61
	5795	159	AVG	52T	13.16	13.18	13.25	30.00	-16.75

Table 7-18. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

z	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
/Hz (h:					37	44	52	[dBm]	Margin [dB]
(80MI	5210	42	AVG	52T	13.38	13.49	13.17	23.98	-10.49
	5290	58	AVG	52T	13.21	13.47	12.99	23.47	-10.00
5GHz Band	5530	106	AVG	52T	13.22	13.48	13.05	22.80	-9.32
G Ba	5610	122	AVG	52T	13.32	12.97	13.00	22.80	-9.48
5	5690	138	AVG	52T	13.02	13.15	13.08	22.80	-9.65
	5775	155	AVG	52T	13.34	13.11	13.27	30.00	-16.66

Table 7-19. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 98 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 90 of 309



SISO Antenna-1 Conducted Output Power Measurements (106 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index		Conducted Power Limit	Conducted Power
					53	54	[dBm]	Margin [dB]
N _	5180	36	AVG	106T	16.21	16.03	23.98	-7.77
王 三	5200	40	AVG	106T	16.23	16.31	23.98	-7.67
돌	5240	48	AVG	106T	16.13	16.11	23.98	-7.85
(20) wic	5260	52	AVG	106T	16.44	16.49	23.47	-6.98
S ≥	5280	56	AVG	106T	15.93	16.24	23.47	-7.23
N S	5320	64	AVG	106T	16.11	16.20	23.47	-7.27
両工	5500	100	AVG	106T	16.26	16.39	22.80	-6.41
C m	5600	120	AVG	106T	16.29	16.27	22.80	-6.51
5	5720	144	AVG	106T	16.39	16.38	22.80	-6.41
	5745	149	AVG	106T	16.35	16.48	30.00	-13.52
	5785	157	AVG	106T	16.33	16.43	30.00	-13.57
	5825	165	AVG	106T	16.37	16.39	30.00	-13.61

Table 7-20. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

N	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
P (53	54	56	[dBm]	Margin [dB]
宣芸	5190	38	AVG	106T	16.41	16.22	16.07	23.98	-7.57
E. 6	5230	46	AVG	106T	16.43	16.17	16.31	23.98	-7.55
4 >	5270	54	AVG	106T	16.06	16.32	16.03	23.47	-7.15
-	5310	62	AVG	106T	16.06	16.27	16.42	23.47	-7.05
4 5	5510	102	AVG	106T	16.24	16.48	16.19	22.80	-6.32
完 Sa	5590	118	AVG	106T	16.13	16.35	16.47	22.80	-6.33
5G B	5710	142	AVG	106T	16.23	16.41	16.05	22.80	-6.39
4,	5755	151	AVG	106T	16.22	16.45	16.17	30.00	-13.55
	5795	159	AVG	106T	16.04	16.31	16.03	30.00	-13.69

Table 7-21. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

N	Freq [MHz]	Channel	Detector	Tones		RU Index	Conducted Power Limit	Conducted Power	
₹	<u> ਵ</u> ਿੰ				53	56	60	[dBm]	Margin [dB]
(80MHz width)	5210	42	AVG	106T	16.27	16.20	15.95	23.98	-7.71
	5290	58	AVG	106T	16.16	16.36	16.09	23.47	-7.11
rd nd	5530	106	AVG	106T	16.15	16.35	15.98	22.80	-6.45
5GHz Band	5610	122	AVG	106T	16.05	16.19	16.18	22.80	-6.61
5	5690	138	AVG	106T	16.21	16.28	16.28	22.80	-6.52
	5775	155	AVG	106T	16.14	16.37	16.05	30.00	-13.63

Table 7-22. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 00 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 99 of 309



SISO Antenna-1 Conducted Output Power Measurements (242 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
					61	[dBm]	Margin [dB]
N	5180	36	AVG	242T	16.79	23.98	-7.19
OMH, idth)	5200	40	AVG	242T	17.97	23.98	-6.01
OM idt	5240	48	AVG	242T	17.86	23.98	-6.12
20 7	5260	52	AVG	242T	17.81	23.47	-5.66
<u>₹</u>	5280	56	AVG	242T	17.71	23.47	-5.76
Z S	5320	64	AVG	242T	17.63	23.47	-5.84
Hz	5500	100	AVG	242T	17.51	22.80	-5.29
(D)	5600	120	AVG	242T	17.55	22.80	-5.25
5	5720	144	AVG	242T	17.79	22.80	-5.01
	5745	149	AVG	242T	17.87	30.00	-12.13
	5785	157	AVG	242T	17.73	30.00	-12.27
	5825	165	AVG	242T	17.79	30.00	-12.21

Table 7-23. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

N	Freq [MHz]	Channel	Detector	Tones	RU I	ndex	Conducted Power Limit	Conducted Power
T C					61	62	[dBm]	Margin [dB]
三	5190	38	AVG	242T	17.68	17.85	23.98	-6.13
	5230	46	AVG	242T	17.65	17.72	23.98	-6.26
(40 ×	5270	54	AVG	242T	17.66	17.61	23.47	-5.81
$\overline{}$	5310	62	AVG	242T	17.73	17.77	23.47	-5.70
HZ	5510	102	AVG	242T	17.68	17.82	22.80	-4.98
4	5590	118	AVG	242T	17.50	17.84	22.80	-4.96
5G B	5710	142	AVG	242T	17.83	17.89	22.80	-4.91
	5755	151	AVG	242T	17.58	17.62	30.00	-12.38
	5795	159	AVG	242T	17.95	17.97	30.00	-12.03

Table 7-24. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

Z	Freq [MHz]	Channel	Detector	Tones	RU Index		Conducted Power Limit	Conducted Power	
₹ €					61	61 62 64		[dBm]	Margin [dB]
(80MHz width)	5210	42	AVG	242T	17.54	17.79	17.70	23.98	-6.19
	5290	58	AVG	242T	17.61	17.76	17.72	23.47	-5.71
5GHz Band	5530	106	AVG	242T	17.70	17.86	17.95	22.80	-4.85
G Ba	5610	122	AVG	242T	17.69	17.87	17.82	22.80	-4.93
5	5690	138	AVG	242T	17.64	17.75	17.65	22.80	-5.05
	5775	155	AVG	242T	17.69	17.92	17.84	30.00	-12.08

Table 7-25. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 100 of 309

© 2022 PCTEST V 9.0 02/01/2019



SISO Antenna-1 Conducted Output Power Measurements (484 Tones)

N	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
Hz (u					65	[dBm]	Margin [dB]
MH dth)	5190	38	AVG	484T	16.34	23.98	-7.64
	5230	46	AVG	484T	17.82	23.98	-6.16
4 >	5270	54	AVG	484T	17.65	23.47	-5.82
	5310	62	AVG	484T	16.46	23.47	-7.01
Hz	5510	102	AVG	484T	15.97	22.80	-6.83
45	5590	118	AVG	484T	17.83	22.80	-4.97
56 B	5710	142	AVG	484T	17.75	22.80	-5.05
	5755	151	AVG	484T	17.99	30.00	-12.01
	5795	159	AVG	484T	17.88	30.00	-12.12

Table 7-26. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

Z	Freq [MHz]	Channel	Detector	Tones	RU I	ndex	Conducted Power Limit	Conducted Power
(80MH)					65	66	[dBm]	Margin [dB]
	5210	42	AVG	484T	17.61	17.92	23.98	-6.06
	5290	58	AVG	484T	17.69	17.80	23.47	-5.67
GHz Band	5530	106	AVG	484T	17.85	17.97	22.80	-4.83
G Ba	5610	122	AVG	484T	17.82	17.80	22.80	-4.98
5	5690	138	AVG	484T	17.60	17.69	22.80	-5.11
	5775	155	AVG	484T	17.82	17.83	30.00	-12.17

Table 7-27. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 101 of 309



SISO Antenna-1 Conducted Output Power Measurements (996 Tones)

N	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
₹					67	[dBm]	Margin [dB]
(80MH)	5210	42	AVG	996T	16.21	23.98	-7.77
<u>8</u> <u>8</u>	5290	58	AVG	996T	16.20	23.47	-7.27
Hz (and	5530	106	AVG	996T	15.98	22.80	-6.82
U m	5610	122	AVG	996T	17.80	22.80	-5.00
5	5690	138	AVG	996T	17.61	22.80	-5.19
	5775	155	AVG	996T	17.77	30.00	-12.23

Table 7-28. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 102 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 102 of 309



Frequency	Bandwidth	Channel	Mode	Tone	RU index	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
5845	20MHz	169	ax RU	26T	0	Average	10.82	-6.2	4.62	30.00	-25.38
5845	20MHz	169	ax RU	26T	4	Average	10.92	-6.2	4.72	30.00	-25.28
5845	20MHz	169	ax RU	26T	8	Average	10.78	-6.2	4.58	30.00	-25.42
5845	20MHz	169	ax RU	52T	37	Average	13.10	-6.2	6.90	30.00	-23.10
5845	20MHz	169	ax RU	52T	39	Average	13.12	-6.2	6.92	30.00	-23.08
5845	20MHz	169	ax RU	52T	40	Average	13.49	-6.2	7.29	30.00	-22.71
5845	20MHz	169	ax RU	106T	53	Average	16.48	-6.2	10.28	30.00	-19.72
5845	20MHz	169	ax RU	106T	54	Average	16.46	-6.2	10.26	30.00	-19.74
5845	20MHz	169	ax RU	242T	61	Average	17.95	-6.2	11.75 4.77	30.00	-18.25
5865	20MHz	173	ax RU	26T	0 4	Average	10.97	-6.2 -6.2		30.00 30.00	-25.23
5865 5865	20MHz 20MHz	173 173	ax RU ax RU	26T 26T	8	Average Average	10.88 10.98	-6.2	4.68 4.78	30.00	-25.32 -25.22
5865	20MHz	173	ax RU	52T	37	Average	13.49	-6.2	7.29	30.00	-23.22
5865	20MHz	173	ax RU	52T	39	Average	13.14	-6.2	6.94	30.00	-23.06
5865	20MHz	173	ax RU	52T	40	Average	13.49	-6.2	7.29	30.00	-22.71
5865	20MHz	173	ax RU	106T	53	Average	16.46	-6.2	10.26	30.00	-19.74
5865	20MHz	173	ax RU	106T	54	Average	16.43	-6.2	10.23	30.00	-19.77
5865	20MHz	173	ax RU	242T	61	Average	17.99	-6.2	11.79	30.00	-18.21
5885	20MHz	177	ax RU	26T	0	Average	10.82	-6.2	4.62	30.00	-25.38
5885	20MHz	177	ax RU	26T	4	Average	10.95	-6.2	4.75	30.00	-25.25
5885	20MHz	177	ax RU	26T	8	Average	10.76	-6.2	4.56	30.00	-25.44
5885	20MHz	177	ax RU	52T	37	Average	13.35	-6.2	7.15	30.00	-22.85
5885	20MHz	177	ax RU	52T	39	Average	13.41	-6.2	7.21	30.00	-22.79
5885	20MHz	177	ax RU	52T	40	Average	13.33	-6.2	7.13	30.00	-22.87
5885	20MHz	177	ax RU	106T	53	Average	16.48	-6.2	10.28	30.00	-19.72
5885	20MHz	177	ax RU	106T	54	Average	16.39	-6.2	10.19	30.00	-19.81
5885	20MHz	177	ax RU	242T	61	Average	17.82	-6.2	11.62	30.00	-18.38
5835	40MHz	167	ax RU	26T	0	Average	10.97	-6.2	4.77	30.00	-25.23
5835	40MHz	167	ax RU	26T	8	Average	10.66	-6.2	4.46	30.00	-25.54
5835	40MHz	167	ax RU	26T	17	Average	10.91	-6.2	4.71	30.00	-25.29
5835	40MHz	167	ax RU	52T	37	Average	13.49	-6.2	7.29	30.00	-22.71
5835	40MHz	167	ax RU	52T	40	Average	13.45	-6.2	7.25	30.00	-22.75
5835	40MHz	167	ax RU	52T	44	Average	13.46	-6.2	7.26	30.00	-22.74
5835	40MHz	167	ax RU	106T	53	Average	16.21	-6.2	10.01	30.00	-19.99
5835 5835	40MHz	167	ax RU	106T	54 56	Average	16.49 16.22	-6.2 -6.2	10.29 10.02	30.00 30.00	-19.71 -19.98
	40MHz 40MHz	167 167	ax RU	106T 242T	61	Average				30.00	
5835 5835	40MHz	167	ax RU ax RU	242T	62	Average Average	17.29 17.30	-6.2 -6.2	11.09 11.10	30.00	-18.91 -18.90
5835	40MHz	167	ax RU	484T	65	Average	17.28	-6.2	11.10	30.00	-18.92
5875	40MHz	175	ax RU	26T	0	Average	10.96	-6.2	4.76	30.00	-25.24
5875	40MHz	175	ax RU	26T	8	Average	10.99	-6.2	4.79	30.00	-25.21
5875	40MHz	175	ax RU	26T	17	Average	10.86	-6.2	4.66	30.00	-25.34
5875	40MHz	175	ax RU	52T	37	Average	13.43	-6.2	7.23	30.00	-22.77
5875	40MHz	175	ax RU	52T	40	Average	13.46	-6.2	7.26	30.00	-22.74
5875	40MHz	175	ax RU	52T	44	Average	13.44	-6.2	7.24	30.00	-22.76
5875	40MHz	175	ax RU	106T	53	Average	16.12	-6.2	9.92	30.00	-20.08
5875	40MHz	175	ax RU	106T	54	Average	16.36	-6.2	10.16	30.00	-19.84
5875	40MHz	175	ax RU	106T	56	Average	16.10	-6.2	9.90	30.00	-20.10
5875	40MHz	175	ax RU	242T	61	Average	17.26	-6.2	11.06	30.00	-18.94
5875	40MHz	175	ax RU	242T	62	Average	17.27	-6.2	11.07	30.00	-18.93
5875	40MHz	175	ax RU	484T	65	Average	17.25	-6.2	11.05	30.00	-18.95
5855	80MHz	171	ax RU	26T	0	Average	10.85	-6.2	4.65	30.00	-25.35
5855	80MHz	171	ax RU	26T	18	Average	10.90	-6.2	4.70	30.00	-25.30
5855	80MHz	171	ax RU	26T	36	Average	10.87	-6.2	4.67	30.00	-25.33
5855	80MHz	171	ax RU	52T	37	Average	13.16	-6.2	6.96	30.00	-23.04
5855	80MHz	171	ax RU	52T	44	Average	13.47	-6.2	7.27	30.00	-22.73
5855	80MHz	171	ax RU	52T	52	Average	13.42	-6.2	7.22	30.00	-22.78
5855	80MHz	171	ax RU	106T	53	Average	16.20	-6.2	10.00	30.00	-20.00
5855	80MHz	171	ax RU	106T	56	Average	16.32	-6.2	10.12	30.00	-19.88
5855	80MHz	171	ax RU	106T	60	Average	16.42	-6.2	10.22 11.05	30.00	-19.78
5855 5855	80MHz	171 171	ax RU	242T	61	Average	17.25	-6.2 -6.2		30.00	-18.95
5855	80MHz	171	ax RU	242T	62	Average	17.39	-6.2	11.19	30.00	-18.81
5855	80MHz	171	ax RU	242T	64	Average	17.29	-6.2	11.09	30.00	-18.91 -18.95
5855	80MHz	171 171	ax RU ax RU	484T 484T	65 66	Average Average	17.25 17.23	-6.2 -6.2	11.05 11.03	30.00 30.00	-18.95
5855	80MHz										

Table 7-29. SISO ANT1 UNII-4 Maximum e.i.r.p (All Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 102 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 103 of 309



SISO Antenna-2 Conducted Output Power Measurements (26 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power
					0	4	8	[dBm]	Margin [dB]
N (5180	36	AVG	26T	10.52	10.54	10.67	23.98	-13.31
I C	5200	40	AVG	26T	10.53	10.54	10.59	23.98	-13.39
₹	5240	48	AVG	26T	10.61	10.57	10.65	23.98	-13.33
\circ	5260	52	AVG	26T	10.96	10.93	10.93	23.47	-12.51
≥ (2)	5280	56	AVG	26T	10.93	10.87	10.93	23.47	-12.54
Z S	5320	64	AVG	26T	10.69	10.65	10.68	23.47	-12.78
五声	5500	100	AVG	26T	10.71	10.64	10.67	22.80	-12.09
OM	5600	120	AVG	26T	10.67	10.56	10.61	22.80	-12.13
5	5720	144	AVG	26T	10.51	10.96	10.44	22.80	-11.84
	5745	149	AVG	26T	10.83	10.78	10.87	30.00	-19.13
	5785	157	AVG	26T	10.84	10.81	10.88	30.00	-19.12
	5825	165	AVG	26T	10.48	10.92	10.94	30.00	-19.06

Table 7-30. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

N	Freq [MHz] Channel Detector		Tones		RU Index		Conducted Power Limit	Conducted Power	
7 0					0	8	17	[dBm]	Margin [dB]
三	5190	38	AVG	26T	10.85	10.88	10.49	23.98	-13.10
5 5	5230	46	AVG	26T	10.87	10.89	10.98	23.98	-13.00
4 ≥	5270	54	AVG	26T	10.79	10.76	10.77	23.47	-12.68
5	5310	62	AVG	26T	10.57	10.54	10.46	23.47	-12.90
부드	5510	102	AVG	26T	10.57	10.95	10.91	22.80	-11.85
注 Se	5590	118	AVG	26T	10.55	10.98	10.81	22.80	-11.82
5G B	5710	142	AVG	26T	10.89	10.79	10.79	22.80	-11.91
	5755	151	AVG	26T	10.51	10.99	10.52	30.00	-19.01
	5795	159	AVG	26T	10.66	10.77	10.68	30.00	-19.23

Table 7-31. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

N .	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
∄ (€					0	18	36	[dBm]	Margin [dB]
(80MHz lwidth)	5210	42	AVG	26T	10.51	10.55	10.44	23.98	-13.43
	5290	58	AVG	26T	10.52	10.68	10.94	23.47	-12.53
5GHz Band	5530	106	AVG	26T	10.87	10.87	10.97	22.80	-11.83
G Ba	5610	122	AVG	26T	10.91	10.89	10.55	22.80	-11.89
5	5690	138	AVG	26T	10.79	10.80	10.55	22.80	-12.00
	5775	155	AVG	26T	10.88	10.70	10.95	30.00	-19.05

Table 7-32. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 104 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 104 of 309



SISO Antenna-2 Conducted Output Power Measurements (52 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power
					37	39	40	[dBm]	Margin [dB]
N	5180	36	AVG	52T	13.19	13.39	13.31	23.98	-10.59
I C	5200	40	AVG	52T	13.18	13.37	13.26	23.98	-10.61
N T	5240	48	AVG	52T	12.99	13.12	12.98	23.98	-10.86
O .=	5260	52	AVG	52T	13.45	12.97	13.43	23.47	-10.02
<u>S</u> ≥	5280	56	AVG	52T	13.45	12.96	13.41	23.47	-10.02
N	5320	64	AVG	52T	13.37	13.45	13.32	23.47	-10.02
五声	5500	100	AVG	52T	13.48	13.09	13.40	22.80	-9.32
C M	5600	120	AVG	52T	13.30	13.38	13.22	22.80	-9.42
5	5720	144	AVG	52T	13.17	13.25	13.13	22.80	-9.55
	5745	149	AVG	52T	13.18	13.31	13.22	30.00	-16.69
	5785	157	AVG	52T	13.30	13.41	13.32	30.00	-16.59
	5825	165	AVG	52T	13.21	13.32	13.18	30.00	-16.68

Table 7-33. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

N _	Freq [MHz] Channel Detector		Tones		RU Index	Conducted Power Limit	Conducted Power		
1					37	40	44	[dBm]	Margin [dB]
三 美	5190	38	AVG	52T	13.15	13.17	13.38	23.98	-10.60
5 5	5230	46	AVG	52T	13.01	13.45	13.05	23.98	-10.53
4 3	5270	54	AVG	52T	13.48	13.31	13.45	23.47	-9.99
O O	5310	62	AVG	52T	13.01	13.36	13.35	23.47	-10.11
4 5	5510	102	AVG	52T	13.05	13.39	13.33	22.80	-9.41
二	5590	118	AVG	52T	13.39	13.19	13.20	22.80	-9.41
5G B	5710	142	AVG	52T	13.24	13.08	13.13	22.80	-9.56
	5755	151	AVG	52T	13.11	13.04	13.16	30.00	-16.84
	5795	159	AVG	52T	13.37	13.28	13.42	30.00	-16.58

Table 7-34. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Z .	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power
∄ (€					37	44	52	[dBm]	Margin [dB]
(80MHz lwidth)	5210	42	AVG	52T	13.48	12.86	13.25	23.98	-10.50
<u>∞</u> ≥	5290	58	AVG	52T	13.03	13.32	13.43	23.47	-10.04
5GHz Band	5530	106	AVG	52T	13.22	13.38	13.29	22.80	-9.42
G Ba	5610	122	AVG	52T	13.04	13.20	13.19	22.80	-9.60
5	5690	138	AVG	52T	13.48	13.21	13.23	22.80	-9.32
	5775	155	AVG	52T	13.40	13.28	13.45	30.00	-16.55

Table 7-35. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 105 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 105 of 509



SISO Antenna-2 Conducted Output Power Measurements (106 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index		Conducted Power Limit	Conducted Power
					53	54	[dBm]	Margin [dB]
N ~	5180	36	AVG	106T	16.22	16.34	23.98	-7.64
I C	5200	40	AVG	106T	16.19	16.26	23.98	-7.72
₹ d	5240	48	AVG	106T	16.17	16.19	23.98	-7.79
\cup .=	5260	52	AVG	106T	16.13	16.15	23.47	-7.32
≥	5280	56	AVG	106T	16.08	16.03	23.47	-7.39
N 2	5320	64	AVG	106T	16.08	16.05	23.47	-7.39
西 工	5500	100	AVG	106T	16.11	16.02	22.80	-6.69
C m	5600	120	AVG	106T	16.30	16.25	22.80	-6.50
5	5720	144	AVG	106T	16.26	16.23	22.80	-6.54
	5745	149	AVG	106T	16.17	16.18	30.00	-13.82
	5785	157	AVG	106T	15.96	16.01	30.00	-13.99
	5825	165	AVG	106T	16.13	16.12	30.00	-13.87

Table 7-36. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

N (Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power
T C					53	54	56	[dBm]	Margin [dB]
宣芸	5190	38	AVG	106T	16.12	16.48	16.31	23.98	-7.50
5 5	5230	46	AVG	106T	16.14	16.42	16.16	23.98	-7.56
4 >	5270	54	AVG	106T	16.17	16.43	16.11	23.47	-7.04
— — —	5310	62	AVG	106T	16.03	16.30	15.95	23.47	-7.17
Hz	5510	102	AVG	106T	16.09	16.32	15.94	22.80	-6.48
4	5590	118	AVG	106T	16.22	16.41	16.03	22.80	-6.39
5G B	5710	142	AVG	106T	16.39	16.06	16.25	22.80	-6.41
	5755	151	AVG	106T	16.24	16.47	16.21	30.00	-13.53
	5795	159	AVG	106T	15.96	16.22	15.94	30.00	-13.78

Table 7-37. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

Z	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power
₹					53	56	60	[dBm]	Margin [dB]
(80MHz lwidth)	5210	42	AVG	106T	15.92	16.45	16.27	23.98	-7.53
	5290	58	AVG	106T	16.10	16.37	16.43	23.47	-7.04
5GHz Band	5530	106	AVG	106T	16.11	16.26	15.96	22.80	-6.54
GF	5610	122	AVG	106T	16.43	16.06	16.06	22.80	-6.37
5	5690	138	AVG	106T	16.49	16.11	16.23	22.80	-6.31
	5775	155	AVG	106T	16.47	16.17	16.48	30.00	-13.52

Table 7-38. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 106 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 106 of 309

© 2022 PCTEST V 9.0 02/01/2019



SISO Antenna-2 Conducted Output Power Measurements (242 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
					61	[dBm]	Margin [dB]
N _	5180	36	AVG	242T	16.88	23.98	-7.10
I I I	5200	40	AVG	242T	17.90	23.98	-6.08
(20MH)	5240	48	AVG	242T	17.89	23.98	-6.09
2 :	5260	52	AVG	242T	17.89	23.47	-5.58
<u>S</u> ≥	5280	56	AVG	242T	17.88	23.47	-5.59
N 2	5320	64	AVG	242T	17.99	23.47	-5.48
Hz	5500	100	AVG	242T	17.80	22.80	-5.00
C m	5600	120	AVG	242T	17.86	22.80	-4.94
5	5720	144	AVG	242T	17.95	22.80	-4.85
	5745	149	AVG	242T	17.85	30.00	-12.15
	5785	157	AVG	242T	17.76	30.00	-12.24
	5825	165	AVG	242T	17.83	30.00	-12.17

Table 7-39. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

N	Freq [MHz]	1Hz] Channel De		Tones	RU I	ndex	Conducted Power Limit	Conducted Power
T C					61	62	[dBm]	Margin [dB]
章	5190	38	AVG	242T	17.85	17.99	23.98	-5.99
5 5	5230	46	AVG	242T	17.80	17.87	23.98	-6.11
4 ≥	5270	54	AVG	242T	17.98	17.96	23.47	-5.49
	5310	62	AVG	242T	17.92	17.89	23.47	-5.55
7 5	5510	102	AVG	242T	17.87	17.86	22.80	-4.93
完 3a	5590	118	AVG	242T	17.80	17.80	22.80	-5.00
5G B	5710	142	AVG	242T	17.71	17.75	22.80	-5.05
	5755	151	AVG	242T	17.66	17.67	30.00	-12.33
	5795	159	AVG	242T	17.99	17.97	30.00	-12.01

Table 7-40. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

Z	Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power
(80MHz width)					61	61 62 64		[dBm]	Margin [dB]
€ <u>₹</u>	5210	42	AVG	242T	17.90	17.79	17.77	23.98	-6.08
	5290	58	AVG	242T	17.97	17.63	17.53	23.47	-5.50
5GHz Band	5530	106	AVG	242T	17.95	17.58	17.91	22.80	-4.85
G Ba	5610	122	AVG	242T	17.81	17.97	17.82	22.80	-4.83
5	5690	138	AVG	242T	17.92	17.97	17.92	22.80	-4.83
	5775	155	AVG	242T	17.50	17.72	17.92	30.00	-12.08

Table 7-41. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 107 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 107 of 309

© 2022 PCTEST V 9.0 02/01/2019



SISO Antenna-2 Conducted Output Power Measurements (484 Tones)

N	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
HZ (•				65	[dBm]	Margin [dB]
E E	5190	38	AVG	484T	16.43	23.98	-7.55
(40M widt	5230	46	AVG	484T	17.87	23.98	-6.11
4 3	5270	54	AVG	484T	17.98	23.47	-5.49
$\overline{}$	5310	62	AVG	484T	16.41	23.47	-7.06
Hz	5510	102	AVG	484T	15.83	22.80	-6.97
	5590	118	AVG	484T	17.76	22.80	-5.04
5G B	5710	142	AVG	484T	17.75	22.80	-5.05
4,	5755	151	AVG	484T	17.68	30.00	-12.32
	5795	159	AVG	484T	17.99	30.00	-12.01

Table 7-42. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

Z	Freq [MHz]	req [MHz] Channel Detector To		Tones	RU I	ndex	Conducted Power Limit	Conducted Power
(80MH)					65	66	[dBm]	Margin [dB]
	5210	42	AVG	484T	17.95	17.74	23.98	-6.03
	5290	58	AVG	484T	17.94	17.92	23.47	-5.53
GHz Band	5530	106	AVG	484T	17.92	17.84	22.80	-4.88
GF Ba	5610	122	AVG	484T	17.76	17.83	22.80	-4.97
5	5690	138	AVG	484T	17.93	17.91	22.80	-4.87
	5775	155	AVG	484T	17.93	17.96	30.00	-12.04

Table 7-43. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 108 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 100 of 309



SISO Antenna-2 Conducted Output Power Measurements (996 Tones)

N _	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power
₹ €					67	[dBm]	Margin [dB]
(80MH)	5210	42	AVG	996T	16.47	23.98	-7.51
	5290	58	AVG	996T	16.32	23.47	-7.15
GHz 3and	5530	106	AVG	996T	15.88	22.80	-6.92
G Ba	5610	122	AVG	996T	17.62	22.80	-5.18
5	5690	138	AVG	996T	17.81	22.80	-4.99
	5775	155	AVG	996T	17.69	30.00	-12.31

Table 7-44. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 109 of 309

© 2022 PCTEST V 9.0 02/01/2019



Frequency	Bandwidth	Channel	Mode	Tone	RU index	Detector	Conducted Power	Ant. Gain	Max e.i.r.p	Max e.i.r.p	e.i.r.p Margir
							[dBm]	[dBi]	[dBm]	Limit [dBm]	[dB]
5845	20MHz	169	ax RU	26T	0	Average	10.91	-7.8	3.11	30.00	-26.89
5845	20MHz	169	ax RU	26T	4	Average	10.94	-7.8	3.14	30.00	-26.86
5845	20MHz	169	ax RU	26T	8	Average	10.95	-7.8	3.15	30.00	-26.85
5845	20MHz	169	ax RU	52T	37	Average	13.49	-7.8	5.69	30.00	-24.31
5845	20MHz	169	ax RU	52T	39	Average	13.47	-7.8	5.67	30.00	-24.33
5845	20MHz	169	ax RU	52T	40	Average	13.43	-7.8	5.63	30.00	-24.37
5845	20MHz	169	ax RU	106T	53	_	16.22		8.42	30.00	-24.57
						Average		-7.8			
5845	20MHz	169	ax RU	106T	54	Average	16.20	-7.8	8.40	30.00	-21.60
5845	20MHz	169	ax RU	242T	61	Average	17.49	-7.8	9.69	30.00	-20.31
5865	20MHz	173	ax RU	26T	0	Average	10.86	-7.8	3.06	30.00	-26.94
5865	20MHz	173	ax RU	26T	4	Average	10.95	-7.8	3.15	30.00	-26.85
5865	20MHz	173	ax RU	26T	8	Average	10.93	-7.8	3.13	30.00	-26.87
5865	20MHz	173	ax RU	52T	37	Average	13.47	-7.8	5.67	30.00	-24.33
5865	20MHz	173	ax RU	52T	39	Average	13.11	-7.8	5.31	30.00	-24.69
5865	20MHz	173	ax RU	52T	40	Average	13.49	-7.8	5.69	30.00	-24.31
5865	20MHz	173	ax RU	106T	53	Average	16.13	-7.8	8.33	30.00	-21.67
5865	20MHz	173	ax RU	106T	54	Average	16.14	-7.8	8.34	30.00	-21.66
5865	20MHz	173	ax RU	242T	61	Average	17.47	-7.8	9.67	30.00	-20.33
5885	20MHz	177	ax RU	26T	0	Average	10.84	-7.8	3.04	30.00	-26.96
5885	20MHz	177	ax RU	26T	4	Average	10.84	-7.8	3.12	30.00	-26.88
	20MHz	177		26T	8	_		-7.8 -7.8	3.12		
5885			ax RU		1	Average	10.99			30.00	-26.81
5885	20MHz	177	ax RU	52T	37	Average	13.14	-7.8	5.34	30.00	-24.66
5885	20MHz	177	ax RU	52T	39	Average	13.22	-7.8	5.42	30.00	-24.58
5885	20MHz	177	ax RU	52T	40	Average	13.11	-7.8	5.31	30.00	-24.69
5885	20MHz	177	ax RU	106T	53	Average	16.31	-7.8	8.51	30.00	-21.49
5885	20MHz	177	ax RU	106T	54	Average	16.29	-7.8	8.49	30.00	-21.51
5885	20MHz	177	ax RU	242T	61	Average	17.78	-7.8	9.98	30.00	-20.02
5835	40MHz	167	ax RU	26T	0	Average	10.99	-7.8	3.19	30.00	-26.81
5835	40MHz	167	ax RU	26T	8	Average	10.90	-7.8	3.10	30.00	-26.90
5835	40MHz	167	ax RU	26T	17	Average	10.89	-7.8	3.09	30.00	-26.91
5835	40MHz	167	ax RU	52T	37	Average	13.49	-7.8	5.69	30.00	-24.31
5835	40MHz	167	ax RU	52T	40	Average	13.35	-7.8	5.55	30.00	-24.45
5835	40MHz	167	ax RU	52T	44		13.48	-7.8	5.68	30.00	-24.32
					1	Average					
5835	40MHz	167	ax RU	106T	53	Average	16.29	-7.8	8.49	30.00	-21.51
5835	40MHz	167	ax RU	106T	54	Average	16.48	-7.8	8.68	30.00	-21.32
5835	40MHz	167	ax RU	106T	56	Average	16.25	-7.8	8.45	30.00	-21.55
5835	40MHz	167	ax RU	242T	61	Average	17.58	-7.8	9.78	30.00	-20.22
5835	40MHz	167	ax RU	242T	62	Average	17.60	-7.8	9.80	30.00	-20.20
5835	40MHz	167	ax RU	484T	65	Average	17.58	-7.8	9.78	30.00	-20.22
5875	40MHz	175	ax RU	26T	0	Average	10.75	-7.8	2.95	30.00	-27.05
5875	40MHz	175	ax RU	26T	8	Average	10.77	-7.8	2.97	30.00	-27.03
5875	40MHz	175	ax RU	26T	17	Average	10.75	-7.8	2.95	30.00	-27.05
5875	40MHz	175	ax RU	52T	37	Average	13.45	-7.8	5.65	30.00	-24.35
5875	40MHz	175	ax RU	52T	40	Average	13.30	-7.8	5.50	30.00	-24.50
5875	40MHz	175	ax RU	52T	44	Average	13.46	-7.8	5.66	30.00	-24.34
5875	40MHz	175	ax RU	106T	53		16.21	-7.8 -7.8	8.41	30.00	-24.32
						Average					
5875	40MHz	175	ax RU	106T	54	Average	16.44	-7.8	8.64	30.00	-21.30
5875	40MHz	175	ax RU	106T	56	Average	16.21	-7.8	8.41	30.00	-21.59
5875	40MHz	175	ax RU	242T	61	Average	17.63	-7.8	9.83	30.00	-20.1
5875	40MHz	175	ax RU	242T	62	Average	17.55	-7.8	9.75	30.00	-20.2
5875	40MHz	175	ax RU	484T	65	Average	17.57	-7.8	9.77	30.00	-20.23
5855	80MHz	171	ax RU	26T	0	Average	10.86	-7.8	3.06	30.00	-26.9
5855	80MHz	171	ax RU	26T	18	Average	10.85	-7.8	3.05	30.00	-26.9
5855	80MHz	171	ax RU	26T	36	Average	10.89	-7.8	3.09	30.00	-26.9
5855	80MHz	171	ax RU	52T	37	Average	13.45	-7.8	5.65	30.00	-24.3
5855	80MHz	171	ax RU	52T	44	Average	13.40	-7.8	5.60	30.00	-24.40
5855	80MHz	171	ax RU	52T	52	Average	13.44	-7.8	5.64	30.00	-24.30
5855	80MHz	171	ax RU	106T	53	Average	16.20	-7.8	8.40	30.00	-21.60
											-21.39
5855	80MHz	171	ax RU	106T	56	Average	16.41	-7.8	8.61	30.00	
5855	80MHz	171	ax RU	106T	60	Average	16.43	-7.8	8.63	30.00	-21.3
5855	80MHz	171	ax RU	242T	61	Average	17.66	-7.8	9.86	30.00	-20.1
5855	80MHz	171	ax RU	242T	62	Average	17.76	-7.8	9.96	30.00	-20.04
5855	80MHz	171	ax RU	242T	64	Average	17.55	-7.8	9.75	30.00	-20.2
5855	80MHz	171	ax RU	484T	65	Average	17.62	-7.8	9.82	30.00	-20.18
5855	80MHz	171	ax RU	484T	66	Average	17.54	-7.8	9.74	30.00	-20.20
					1		 				

Table 7-45. SISO ANT2 80MHz UNII-4 Maximum e.i.r.p. Power (All Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 110 of 200
	09/22- 11/09/2021	Portable Handset	Page 110 of 309
© 2022 PCTEST			V 9.0 02/01/2019



MIMO Maximum Conducted Output Power Measurements (26 Tones)

									RU Index					Conducted	Conducted
	Freq [MHz]	Channel	Detector	Tones		0			4			8		Power Limit	Power
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
N _	5180	36	AVG	26T	10.76	10.52	13.65	10.61	10.54	13.59	10.75	10.67	13.72	23.98	-10.26
∓ ਵ	5200	40	AVG	26T	10.71	10.53	13.63	10.97	10.54	13.77	10.98	10.59	13.80	23.98	-10.18
≥ ≒	5240	48	AVG	26T	10.88	10.61	13.76	10.96	10.57	13.78	10.59	10.65	13.63	23.98	-10.20
20 <u>K</u> i	5260	52	AVG	26T	10.45	10.96	13.72	10.57	10.93	13.76	10.61	10.93	13.78	23.47	-9.69
<u>≥</u> (2	5280	56	AVG	26T	10.46	10.93	13.71	10.56	10.87	13.73	10.53	10.93	13.74	23.47	-9.73
N 2	5320	64	AVG	26T	10.56	10.69	13.64	10.67	10.65	13.67	10.60	10.68	13.65	23.47	-9.80
E E	5500	100	AVG	26T	10.87	10.71	13.80	10.97	10.64	13.82	10.57	10.67	13.63	22.80	-8.98
G W	5600	120	AVG	26T	10.75	10.67	13.72	10.89	10.56	13.74	10.88	10.61	13.76	22.80	-9.04
5	5720	144	AVG	26T	10.85	10.51	13.69	10.94	10.96	13.96	10.95	10.44	13.71	22.80	-8.84
	5745	149	AVG	26T	10.60	10.83	13.73	10.75	10.78	13.78	10.72	10.87	13.81	30.00	-16.19
	5785	157	AVG	26T	10.57	10.84	13.72	10.73	10.81	13.78	10.71	10.88	13.81	30.00	-16.19
	5825	165	AVG	26T	10.57	10.48	13.54	10.71	10.92	13.83	10.66	10.94	13.81	30.00	-16.17

Table 7-46. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

									RU Index					Conducted	Conducted
N	Freq [MHz]	Channel	Detector	Tones		0			8			17		Power Limit	Power
Ï 🖘					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
₹ ₹	5190	38	AVG	26T	10.59	10.85	13.73	10.82	10.88	13.86	10.53	10.49	13.52	23.98	-10.12
<u>e.</u>	5230	46	AVG	26T	10.85	10.87	13.87	10.89	10.89	13.90	10.52	10.98	13.77	23.98	-10.08
4 ≥	5270	54	AVG	26T	10.93	10.79	13.87	10.99	10.76	13.89	10.58	10.77	13.69	23.47	-9.58
6	5310	62	AVG	26T	10.98	10.57	13.79	10.94	10.54	13.75	10.97	10.46	13.73	23.47	-9.68
구 ⊆	5510	102	AVG	26T	10.64	10.57	13.62	10.82	10.95	13.90	10.62	10.91	13.78	22.80	-8.90
元 で	5590	118	AVG	26T	10.80	10.55	13.69	10.89	10.98	13.95	10.51	10.81	13.67	22.80	-8.85
5 B	5710	142	AVG	26T	10.55	10.89	13.73	10.99	10.79	13.90	10.63	10.79	13.72	22.80	-8.90
	5755	151	AVG	26T	10.76	10.51	13.65	10.86	10.99	13.94	10.91	10.52	13.73	30.00	-16.06
	5795	159	AVG	26T	10.58	10.66	13.63	10.86	10.77	13.83	10.71	10.68	13.71	30.00	-16.17

Table 7-47. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

									RU Index					Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		0			18			36		Power Limit	Power
E €					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
€ 5	5210	42	AVG	26T	10.96	10.51	13.75	10.89	10.55	13.73	10.71	10.44	13.59	23.98	-10.23
® ≥	5290	58	AVG	26T	10.75	10.52	13.65	10.84	10.68	13.77	10.49	10.94	13.73	23.47	-9.70
우드	5530	106	AVG	26T	10.69	10.87	13.79	10.83	10.87	13.86	10.51	10.97	13.76	22.80	-8.94
5 g	5610	122	AVG	26T	10.98	10.91	13.96	10.54	10.89	13.73	10.62	10.55	13.60	22.80	-8.84
5 _	5690	138	AVG	26T	10.92	10.79	13.87	10.47	10.80	13.65	10.51	10.55	13.54	22.80	-8.93
	5775	155	AVG	26T	10.81	10.88	13.86	10.98	10.70	13.85	10.73	10.95	13.85	30.00	-16.14

Table 7-48. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 111 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 111 of 309



MIMO Conducted Output Power Measurements (52 Tones)

									RU Index					Conducted	Conducted
	Freq [MHz]	Channel	Detector	Tones		37			39			40		Power Limit	Power
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
N _	5180	36	AVG	52T	13.16	13.19	16.19	13.45	13.39	16.43	13.48	13.31	16.41	23.98	-7.55
ヹヹ	5200	40	AVG	52T	13.17	13.18	16.19	13.34	13.37	16.37	13.38	13.26	16.33	23.98	-7.61
⋝≒	5240	48	AVG	52T	13.32	12.99	16.17	13.42	13.12	16.28	13.39	12.98	16.20	23.98	-7.70
20 Yi	5260	52	AVG	52T	13.41	13.45	16.44	13.47	12.97	16.24	13.48	13.43	16.47	23.47	-7.00
<u>≥</u> (2	5280	56	AVG	52T	13.39	13.45	16.43	13.46	12.96	16.23	13.43	13.41	16.43	23.47	-7.04
N 2	5320	64	AVG	52T	13.18	13.37	16.29	13.24	13.45	16.36	13.18	13.32	16.26	23.47	-7.11
E E	5500	100	AVG	52T	13.42	13.48	16.46	13.04	13.09	16.08	13.01	13.40	16.22	22.80	-6.34
G W	5600	120	AVG	52T	13.01	13.30	16.17	13.10	13.38	16.25	13.03	13.22	16.14	22.80	-6.55
5	5720	144	AVG	52T	13.32	13.17	16.26	13.42	13.25	16.35	13.31	13.13	16.23	22.80	-6.45
	5745	149	AVG	52T	13.45	13.18	16.33	13.05	13.31	16.19	13.01	13.22	16.13	30.00	-13.67
	5785	157	AVG	52T	13.28	13.30	16.30	13.38	13.41	16.41	13.33	13.32	16.34	30.00	-13.59
	5825	165	AVG	52T	13.33	13.21	16.28	13.44	13.32	16.39	13.43	13.18	16.32	30.00	-13.61

Table 7-49. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

									RU Index					Conducted	Conducted
N	Freq [MHz]	Channel	Detector	Tones		37			40			44		Power Limit	Power
Ϊ÷					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
₹ ₹	5190	38	AVG	52T	13.13	13.15	16.15	13.22	13.17	16.21	13.49	13.38	16.45	23.98	-7.53
<u>e</u> . 6	5230	46	AVG	52T	13.19	13.01	16.11	13.29	13.45	16.38	13.34	13.05	16.21	23.98	-7.60
4 \$	5270	54	AVG	52T	13.37	13.48	16.44	13.31	13.31	16.32	13.33	13.45	16.40	23.47	-7.03
6	5310	62	AVG	52T	13.16	13.01	16.10	13.48	13.36	16.43	13.16	13.35	16.27	23.47	-7.04
₽	5510	102	AVG	52T	13.06	13.05	16.07	13.10	13.39	16.26	13.26	13.33	16.31	22.80	-6.49
元 四	5590	118	AVG	52T	13.18	13.39	16.30	13.15	13.19	16.18	13.29	13.20	16.26	22.80	-6.50
5G B	5710	142	AVG	52T	13.14	13.24	16.20	13.16	13.08	16.13	13.19	13.13	16.17	22.80	-6.60
	5755	151	AVG	52T	13.32	13.11	16.23	13.29	13.04	16.18	13.39	13.16	16.29	30.00	-13.71
	5795	159	AVG	52T	13.16	13.37	16.28	13.18	13.28	16.24	13.25	13.42	16.35	30.00	-13.65

Table 7-50. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

									RU Index					Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		37			44			52		Power Limit	Power
∃ €					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
₹ S	5210	42	AVG	52T	13.38	13.48	16.44	13.49	12.86	16.20	13.17	13.25	16.22	23.98	-7.54
∞≥	5290	58	AVG	52T	13.21	13.03	16.13	13.47	13.32	16.41	12.99	13.43	16.23	23.47	-7.06
무드	5530	106	AVG	52T	13.22	13.22	16.23	13.48	13.38	16.44	13.05	13.29	16.18	22.80	-6.36
B G	5610	122	AVG	52T	13.32	13.04	16.19	12.97	13.20	16.10	13.00	13.19	16.11	22.80	-6.61
5	5690	138	AVG	52T	13.02	13.48	16.27	13.15	13.21	16.19	13.08	13.23	16.17	22.80	-6.53
	5775	155	AVG	52T	13.34	13.40	16.38	13.11	13.28	16.21	13.27	13.45	16.37	30.00	-13.62

Table 7-51. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 112 of 309



MIMO Conducted Output Power Measurements (106 Tones)

							RU I	ndex			Conducted	Conducted
	Freq [MHz]	Channel	Detector	Tones		53			54		Power Limit	Power
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
N	5180	36	AVG	106T	16.21	16.22	19.23	16.03	16.34	19.20	23.98	-4.75
\pm	5200	40	AVG	106T	16.23	16.19	19.22	16.31	16.26	19.30	23.98	-4.68
≥ #	5240	48	AVG	106T	16.13	16.17	19.16	16.11	16.19	19.16	23.98	-4.82
	5260	52	AVG	106T	16.44	16.13	19.30	16.49	16.15	19.33	23.47	-4.14
<u>S</u> ≥	5280	56	AVG	106T	15.93	16.08	19.02	16.24	16.03	19.15	23.47	-4.32
N S	5320	64	AVG	106T	16.11	16.08	19.11	16.20	16.05	19.14	23.47	-4.33
五声	5500	100	AVG	106T	16.26	16.11	19.20	16.39	16.02	19.22	22.80	-3.58
G	5600	120	AVG	106T	16.29	16.30	19.31	16.27	16.25	19.27	22.80	-3.49
5	5720	144	AVG	106T	16.39	16.26	19.34	16.38	16.23	19.32	22.80	-3.46
	5745	149	AVG	106T	16.35	16.17	19.27	16.48	16.18	19.34	30.00	-10.66
	5785	157	AVG	106T	16.33	15.96	19.16	16.43	16.01	19.24	30.00	-10.76
	5825	165	AVG	106T	16.37	16.13	19.26	16.39	16.12	19.27	30.00	-10.73

Table 7-52. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

									RU Index					Conducted	Conducted
N	Freq [MHz]	Channel	Detector	Tones		53			54			56		Power Limit	Power
Ť 🗢					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
₹ ₹	5190	38	AVG	106T	16.41	16.12	19.28	16.22	16.48	19.36	16.07	16.31	19.20	23.98	-4.62
5 B	5230	46	AVG	106T	16.43	16.14	19.30	16.17	16.42	19.31	16.31	16.16	19.25	23.98	-4.67
4 ≥	5270	54	AVG	106T	16.06	16.17	19.13	16.32	16.43	19.39	16.03	16.11	19.08	23.47	-4.08
<u></u> 6	5310	62	AVG	106T	16.06	16.03	19.06	16.27	16.30	19.30	16.42	15.95	19.20	23.47	-4.17
Ϋ́	5510	102	AVG	106T	16.24	16.09	19.18	16.48	16.32	19.41	16.19	15.94	19.08	22.80	-3.39
光路	5590	118	AVG	106T	16.13	16.22	19.19	16.35	16.41	19.39	16.47	16.03	19.27	22.80	-3.41
5 B	5710	142	AVG	106T	16.23	16.39	19.32	16.41	16.06	19.25	16.05	16.25	19.16	22.80	-3.48
~	5755	151	AVG	106T	16.22	16.24	19.24	16.45	16.47	19.47	16.17	16.21	19.20	30.00	-10.53
	5795	159	AVG	106T	16.04	15.96	19.01	16.31	16.22	19.28	16.03	15.94	19.00	30.00	-10.72

Table 7-53. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

									RU Index					Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		53			56			60		Power Limit	Power
₹					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
일 호	5210	42	AVG	106T	16.27	15.92	19.11	16.20	16.45	19.34	15.95	16.27	19.12	23.98	-4.64
® ≥	5290	58	AVG	106T	16.16	16.10	19.14	16.36	16.37	19.38	16.09	16.43	19.27	23.47	-4.09
부드	5530	106	AVG	106T	16.15	16.11	19.14	16.35	16.26	19.32	15.98	15.96	18.98	22.80	-3.48
5 g	5610	122	AVG	106T	16.05	16.43	19.25	16.19	16.06	19.14	16.18	16.06	19.13	22.80	-3.55
5	5690	138	AVG	106T	16.21	16.49	19.36	16.28	16.11	19.21	16.28	16.23	19.27	22.80	-3.44
	5775	155	AVG	106T	16.14	16.47	19.32	16.37	16.17	19.28	16.05	16.48	19.28	30.00	-10.68

Table 7-54. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 113 of 309



MIMO Conducted Output Power Measurements (242 Tones)

						RU Index		Conducted	Conducted
	Freq [MHz]	Channel	Detector	Tones		61		Power Limit	Power
					ANT1	ANT2	MIMO	[dBm]	Margin [dB]
N	5180	36	AVG	242T	16.79	16.88	19.85	23.98	-4.13
I C	5200	40	AVG	242T	17.97	17.90	20.95	23.98	-3.03
≥ ±	5240	48	AVG	242T	17.86	17.89	20.89	23.98	-3.09
U :-	5260	52	AVG	242T	17.81	17.89	20.86	23.47	-2.61
<u>S</u> ≥	5280	56	AVG	242T	17.71	17.88	20.81	23.47	-2.66
N	5320	64	AVG	242T	17.63	17.99	20.82	23.47	-2.65
五	5500	100	AVG	242T	17.51	17.80	20.67	22.80	-2.13
CD m		120	AVG	242T	17.55	17.86	20.72	22.80	-2.08
5	5720	144	AVG	242T	17.79	17.95	20.88	22.80	-1.92
	5745	149	AVG	242T	17.87	17.85	20.87	30.00	-9.13
	5785	157	AVG	242T	17.73	17.76	20.76	30.00	-9.24
	5825	165	AVG	242T	17.79	17.83	20.82	30.00	-9.18

Table 7-55. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

							RU I	ndex			Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		61			62		Power Limit	Power
7 2					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
₹	5190	38	AVG	242T	17.68	17.85	20.78	17.85	17.99	20.93	23.98	-3.05
<u>e</u> . 5	5230	46	AVG	242T	17.65	17.80	20.74	17.72	17.87	20.81	23.98	-3.17
4 3	5270	54	AVG	242T	17.66	17.98	20.83	17.61	17.96	20.80	23.47	-2.64
<u> </u>	5310	62	AVG	242T	17.73	17.92	20.84	17.77	17.89	20.84	23.47	-2.63
보	5510	102	AVG	242T	17.68	17.87	20.79	17.82	17.86	20.85	22.80	-1.95
完 第	5590	118	AVG	242T	17.50	17.80	20.66	17.84	17.80	20.83	22.80	-1.97
5G B	5710	142	AVG	242T	17.83	17.71	20.78	17.89	17.75	20.83	22.80	-1.97
~,	5755	151	AVG	242T	17.58	17.66	20.63	17.62	17.67	20.66	30.00	-9.34
	5795	159	AVG	242T	17.95	17.99	20.98	17.97	17.97	20.98	30.00	-9.02

Table 7-56. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

									RU Index					Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		61			62			64		Power Limit	Power
₩ €					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
	5210	42	AVG	242T	17.54	17.90	20.73	17.79	17.79	20.80	17.70	17.77	20.75	23.98	-3.18
∞≥	5290	58	AVG	242T	17.61	17.97	20.80	17.76	17.63	20.71	17.72	17.53	20.64	23.47	-2.67
부드	5530	106	AVG	242T	17.70	17.95	20.84	17.86	17.58	20.73	17.95	17.91	20.94	22.80	-1.86
E B	5610	122	AVG	242T	17.69	17.81	20.76	17.87	17.97	20.93	17.82	17.82	20.83	22.80	-1.87
5 _	5690	138	AVG	242T	17.64	17.92	20.79	17.75	17.97	20.87	17.65	17.92	20.80	22.80	-1.93
	5775	155	AVG	242T	17.69	17.50	20.61	17.92	17.72	20.83	17.84	17.92	20.89	30.00	-9.11

Table 7-57. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 114 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 114 of 309



MIMO Conducted Output Power Measurements (484 Tones)

						RU Index		Conducted	Conducted
N _	Freq [MHz]	Channel	Detector	Tones		65		Power Limit	Power
7 ~					ANT1	ANT2	MIMO	[dBm]	Margin [dB]
M	5190	38	AVG	484T	16.34	16.43	19.40	23.98	-4.58
5 5	5230	46	AVG	484T	17.82	17.87	20.86	23.98	-3.12
4 ≥	5270	54	AVG	484T	17.65	17.98	20.83	23.47	-2.64
7	5310	62	AVG	484T	16.46	16.41	19.45	23.47	-4.02
7 5	5510	102	AVG	484T	15.97	15.83	18.91	22.80	-3.89
完 3a	5590	118	AVG	484T	17.83	17.76	20.81	22.80	-1.99
5G B	5710	142	AVG	484T	17.75	17.75	20.76	22.80	-2.04
4,	5755	151	AVG	484T	17.99	17.68	20.85	30.00	-9.15
	5795	159	AVG	484T	17.88	17.99	20.95	30.00	-9.05

Table 7-58. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

							RU I	ndex			Conducted	Conducted
N	Freq [MHz]	Channel	Detector	Tones		65			66		Power Limit	Power
₹ 3					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]
<u> </u>	5210	42	AVG	484T	17.61	17.95	20.79	17.92	17.74	20.84	23.98	-3.14
∞ ≥	5290	58	AVG	484T	17.69	17.94	20.83	17.80	17.92	20.87	23.47	-2.60
우	5530	106	AVG	484T	17.85	17.92	20.90	17.97	17.84	20.92	22.80	-1.88
호 B	5610	122	AVG	484T	17.82	17.76	20.80	17.80	17.83	20.83	22.80	-1.97
5 _	5690	138	AVG	484T	17.60	17.93	20.78	17.69	17.91	20.81	22.80	-1.99
	5775	155	AVG	484T	17.82	17.93	20.89	17.83	17.96	20.91	30.00	-9.09

Table 7-59. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 115 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 115 of 309
© 2022 PCTEST			V 9.0 02/01/2019



MIMO Conducted Output Power Measurements (996 Tones)

						RU Index		Conducted	Conducted
N	Freq [MHz]	Channel	Detector	Tones		67		Power Limit	Power
(80MHz width)	LP (LP)				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
	5210	42	AVG	996T	16.21	16.47	19.35	23.98	-4.63
	5290	58	AVG	996T	16.20	16.32	19.27	23.47	-4.20
Hz	5530	106	AVG	996T	15.98	15.88	18.94	22.80	-3.86
5GF Ba	5610	122	AVG	996T	17.80	17.62	20.72	22.80	-2.08
5	5690	138	AVG	996T	17.61	17.81	20.72	22.80	-2.08
	5775	155	AVG	996T	17.77	17.69	20.74	30.00	-9.26

Table 7-60. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 116 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 116 of 309



Frequency	Bandwidth	Channel	Mode	Tone	RU index	Detector	ANT1 Conducted Power [dBm]	ANT2 Conducted Power [dBm]	MIMO [dBm]	Directional Gain [dBi]	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
5845	20MHz	169	ax RU	26T	0	Average	10.82	10.91	13.88	-3.95	9.93	30.00	-20.07
5845	20MHz	169	ax RU	26T	4	Average	10.92	10.94	13.94	-3.95	9.99	30.00	-20.01
5845	20MHz	169	ax RU	26T	8	Average	10.78	10.95	13.88	-3.95	9.93	30.00	-20.07
5845	20MHz	169	ax RU	52T	37	Average	13.10	13.49	16.31	-3.95	12.36	30.00	-17.64
5845	20MHz	169	ax RU	52T	39	Average	13.12	13.47	16.31	-3.95	12.36	30.00	-17.64
5845 5845	20MHz	169 169	ax RU	52T	40 53	Average	13.49	13.43 16.22	16.47 19.36	-3.95	12.52 15.41	30.00	-17.48
5845	20MHz 20MHz	169	ax RU ax RU	106T 106T	54	Average Average	16.48 16.46	16.22	19.36	-3.95 -3.95	15.41	30.00 30.00	-14.59 -14.61
5845	20MHz	169	ax RU	242T	61	Average	17.95	17.49	20.74	-3.95	16.79	30.00	-13.21
5865	20MHz	173	ax RU	26T	0	Average	10.97	10.86	13.93	-3.95	9.98	30.00	-20.02
5865	20MHz	173	ax RU	26T	4	Average	10.88	10.95	13.93	-3.95	9.98	30.00	-20.02
5865	20MHz	173	ax RU	26T	8	Average	10.98	10.93	13.97	-3.95	10.02	30.00	-19.98
5865	20MHz	173	ax RU	52T	37	Average	13.49	13.47	16.49	-3.95	12.54	30.00	-17.46
5865	20MHz	173	ax RU	52T	39	Average	13.14	13.11	16.14	-3.95	12.19	30.00	-17.81
5865	20MHz	173 173	ax RU	52T	40	Average	13.49	13.49 16.13	16.50 19.31	-3.95 -3.95	12.55 15.36	30.00	-17.45
5865 5865	20MHz 20MHz	173	ax RU ax RU	106T 106T	53 54	Average Average	16.46 16.43	16.13	19.31	-3.95	15.35	30.00 30.00	-14.64 -14.65
5865	20MHz	173	ax RU	242T	61	Average	17.99	17.47	20.75	-3.95	16.80	30.00	-13.20
5885	20MHz	177	ax RU	26T	0	Average	10.82	10.84	13.84	-3.95	9.89	30.00	-20.11
5885	20MHz	177	ax RU	26T	4	Average	10.95	10.92	13.95	-3.95	10.00	30.00	-20.00
5885	20MHz	177	ax RU	26T	8	Average	10.76	10.99	13.89	-3.95	9.94	30.00	-20.06
5885	20MHz	177	ax RU	52T	37	Average	13.35	13.14	16.26	-3.95	12.31	30.00	-17.69
5885	20MHz	177	ax RU	52T	39	Average	13.41	13.22	16.33	-3.95	12.38	30.00	-17.62
5885 5885	20MHz 20MHz	177 177	ax RU	52T 106T	40 53	Average	13.33 16.48	13.11 16.31	16.23 19.41	-3.95 -3.95	12.28 15.46	30.00 30.00	-17.72 -14.54
5885	20MHz	177	ax RU ax RU	106T	54	Average Average	16.48	16.31	19.41	-3.95	15.46	30.00	-14.54
5885	20MHz	177	ax RU	242T	61	Average	17.82	17.78	20.81	-3.95	16.86	30.00	-13.14
5835	40MHz	167	ax RU	26T	0	Average	10.97	10.99	13.99	-3.95	10.04	30.00	-19.96
5835	40MHz	167	ax RU	26T	8	Average	10.66	10.9	13.79	-3.95	9.84	30.00	-20.16
5835	40MHz	167	ax RU	26T	17	Average	10.91	10.89	13.91	-3.95	9.96	30.00	-20.04
5835	40MHz	167	ax RU	52T	37	Average	13.49	13.49	16.50	-3.95	12.55	30.00	-17.45
5835	40MHz	167	ax RU	52T	40	Average	13.45	13.35	16.41	-3.95	12.46	30.00	-17.54
5835 5835	40MHz 40MHz	167 167	ax RU ax RU	52T 106T	44 53	Average Average	13.46 16.21	13.48 16.29	16.48 19.26	-3.95 -3.95	12.53 15.31	30.00 30.00	-17.47 -14.69
5835	40MHz	167	ax RU	106T	54	Average	16.49	16.48	19.50	-3.95	15.55	30.00	-14.45
5835	40MHz	167	ax RU	106T	56	Average	16.22	16.25	19.25	-3.95	15.30	30.00	-14.70
5835	40MHz	167	ax RU	242T	61	Average	17.29	17.58	20.45	-3.95	16.50	30.00	-13.50
5835	40MHz	167	ax RU	242T	62	Average	17.30	17.6	20.46	-3.95	16.51	30.00	-13.49
5835	40MHz	167	ax RU	484T	65	Average	17.28	17.58	20.44	-3.95	16.49	30.00	-13.51
5875	40MHz	175	ax RU	26T	0	Average	10.96	10.75	13.87	-3.95	9.92	30.00	-20.08
5875	40MHz	175	ax RU	26T	8	Average	10.99	10.77	13.89	-3.95	9.94	30.00	-20.06
5875 5875	40MHz 40MHz	175 175	ax RU ax RU	26T 52T	17 37	Average Average	10.86 13.43	10.75 13.45	13.82 16.45	-3.95 -3.95	9.87 12.50	30.00 30.00	-20.13 -17.50
5875	40MHz	175	ax RU	52T	40	Average	13.45	13.43	16.39	-3.95	12.44	30.00	-17.56
5875	40MHz	175	ax RU	52T	44	Average	13.44	13.46	16.46	-3.95	12.51	30.00	-17.49
5875	40MHz	175	ax RU	106T	53	Average	16.12	16.21	19.18	-3.95	15.23	30.00	-14.77
5875	40MHz	175	ax RU	106T	54	Average	16.36	16.44	19.41	-3.95	15.46	30.00	-14.54
5875	40MHz	175	ax RU	106T	56	Average	16.10	16.21	19.17	-3.95	15.22	30.00	-14.78
5875	40MHz	175	ax RU	242T	61	Average	17.26	17.63	20.46	-3.95	16.51	30.00	-13.49
5875	40MHz	175	ax RU	242T	62	Average	17.27	17.55	20.42	-3.95	16.47	30.00	-13.53
5875 5855	40MHz 80MHz	175 171	ax RU ax RU	484T 26T	65 0	Average Average	17.25 10.85	17.57 10.86	20.42 13.87	-3.95 -3.95	16.47 9.92	30.00 30.00	-13.53 -20.08
5855	80MHz	171	ax RU	26T	18	Average	10.83	10.85	13.89	-3.95	9.94	30.00	-20.06
5855	80MHz	171	ax RU	26T	36	Average	10.87	10.89	13.89	-3.95	9.94	30.00	-20.06
5855	80MHz	171	ax RU	52T	37	Average	13.16	13.45	16.32	-3.95	12.37	30.00	-17.63
5855	80MHz	171	ax RU	52T	44	Average	13.47	13.4	16.45	-3.95	12.50	30.00	-17.50
5855	80MHz	171	ax RU	52T	52	Average	13.42	13.44	16.44	-3.95	12.49	30.00	-17.51
5855	80MHz	171	ax RU	106T	53	Average	16.20	16.2	19.21	-3.95	15.26	30.00	-14.74
5855 5855	80MHz	171	ax RU	106T	56	Average	16.32	16.41	19.38 19.44	-3.95	15.43	30.00	-14.57
5855	80MHz 80MHz	171 171	ax RU ax RU	106T 242T	60 61	Average Average	16.42 17.25	16.43 17.66	20.47	-3.95 -3.95	15.49 16.52	30.00 30.00	-14.51 -13.48
5855	80MHz	171	ax RU	242T	62	Average	17.23	17.76	20.47	-3.95	16.64	30.00	-13.46
5855	80MHz	171	ax RU	242T	64	Average	17.29	17.55	20.43	-3.95	16.48	30.00	-13.52
5855	80MHz	171	ax RU	484T	65	Average	17.25	17.62	20.45	-3.95	16.50	30.00	-13.50
5855	80MHz	171	ax RU	484T	66	Average	17.23	17.54	20.40	-3.95	16.45	30.00	-13.55
5855	80MHz	171	ax RU	996T	67	Average	17.70	17.49	20.61	-3.95	16.66	30.00	-13.34

Table 7-61. MIMO UNII-4 Maximum Conducted Output Power (All Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 117 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 117 of 309
© 2022 PCTEST			V 9.0 02/01/2019



Note:

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

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

Directional gain =
$$10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}] dBi$$

Sample MIMO Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 16.89 dBm for Antenna-1 and 16.69 dBm for Antenna-2.

$$(16.89 \text{ dBm} + 16.69 \text{ dBm}) = (48.87 \text{ mW} + 46.67 \text{ mW}) = 95.53 \text{ mW} = 19.80 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 19.80 dBm with directional gain of -3.95 dBi.

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 118 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 116 01 309



7.5 Maximum Power Spectral Density – 802.11ax OFDMA

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, 5.47 - 5.725 GHz bands, the maximum permissible power spectral density is 11 dBm/MHz.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

In the 5.850 - 5.855, the maximum power spectral density must not exceed 14dBm/MHz e.i.r.p.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Span was set to encompass the entire emission bandwidth of the signal
- 3. RBW = 1MHz
- 4. VBW = 3MHz
- 5. Number of sweep points > 2 x (span/RBW)
- 6. Sweep time = auto
- 7. Detector = power averaging (RMS)
- 8. Trigger was set to free run for all modes
- 9. Trace was averaged over 100 sweeps
- 10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

The power spectral density for each channel was measured with the RU index showing the highest conducted power.

P			
FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 119 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 119 01 309



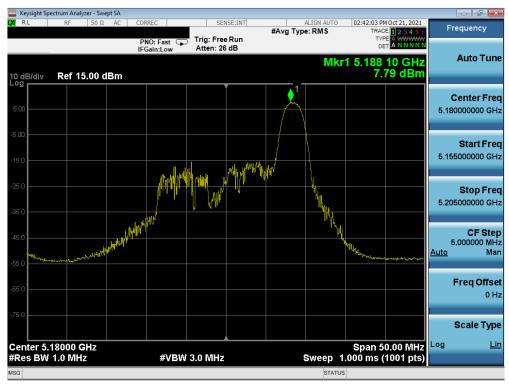
SISO Antenna-1 Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	7.79	11.0	-3.21
	5200	40	ax (20MHz)	26T	MCS0	7.95	11.0	-3.05
<u>5</u>	5240	48	ax (20MHz)	26T	MCS0	7.81	11.0	-3.19
Band 1	5190	38	ax (40MHz)	26T	MCS0	7.97	11.0	-3.03
_	5230	46	ax (40MHz)	26T	MCS0	7.81	11.0	-3.19
	5210	42	ax (80MHz)	26T	MCS0	7.94	11.0	-3.06
	5260	52	ax (20MHz)	26T	MCS0	8.00	11.0	-3.00
đ	5280	56	ax (20MHz)	26T	MCS0	7.89	11.0	-3.11
d 2,	5320	64	ax (20MHz)	26T	MCS0	7.97	11.0	-3.03
Band 2A	5270	54	ax (40MHz)	26T	MCS0	7.84	11.0	-3.16
ш	5310	62	ax (40MHz)	26T	MCS0	7.97	11.0	-3.03
	5290	58	ax (80MHz)	26T	MCS0	7.85	11.0	-3.15
	5500	100	ax (20MHz)	26T	MCS0	7.88	11.0	-3.12
	5600	120	ax (20MHz)	26T	MCS0	7.98	11.0	-3.02
	5720	144	ax (20MHz)	26T	MCS0	7.81	11.0	-3.19
20	5510	102	ax (40MHz)	26T	MCS0	7.84	11.0	-3.16
Band 2C	5590	118	ax (40MHz)	26T	MCS0	7.91	11.0	-3.09
Ва	5710	142	ax (40MHz)	26T	MCS0	7.86	11.0	-3.14
	5530	106	ax (80MHz)	26T	MCS0	7.81	11.0	-3.19
	5610	122	ax (80MHz)	26T	MCS0	7.93	11.0	-3.07
	5690	138	ax (80MHz)	26T	MCS0	7.93	11.0	-3.07

Table 7-62. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 120 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 120 of 309





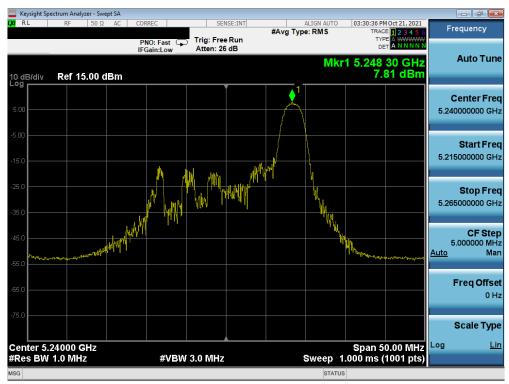
Plot 7-133. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



Plot 7-134. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 121 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 121 of 309





Plot 7-135. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



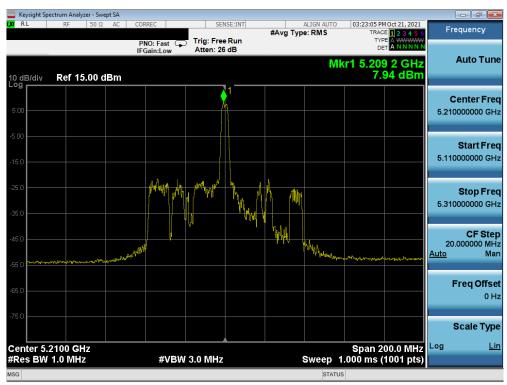
Plot 7-136. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 122 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 122 of 309
© 2022 PCTEST			V 9.0 02/01/2019





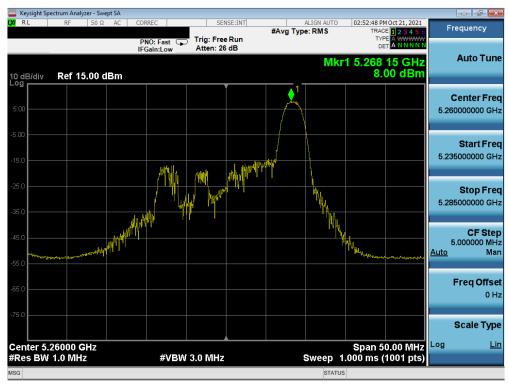
Plot 7-137. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



Plot 7-138. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 122 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 123 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





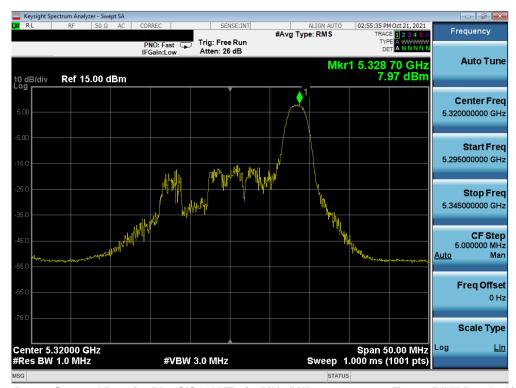
Plot 7-139. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-140. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 124 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 124 of 309





Plot 7-141. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



Plot 7-142. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 125 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 125 of 309

© 2022 PCTEST

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





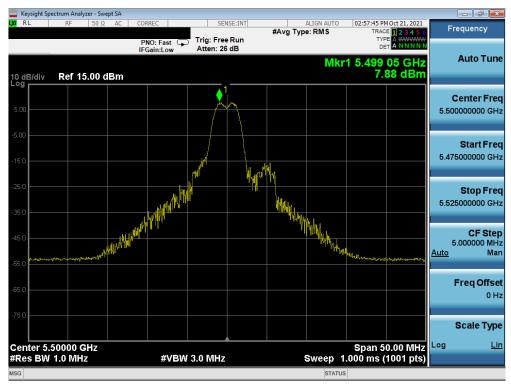
Plot 7-143. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



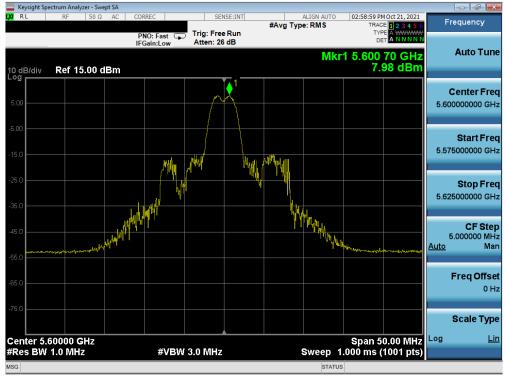
Plot 7-144. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 126 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 126 of 309





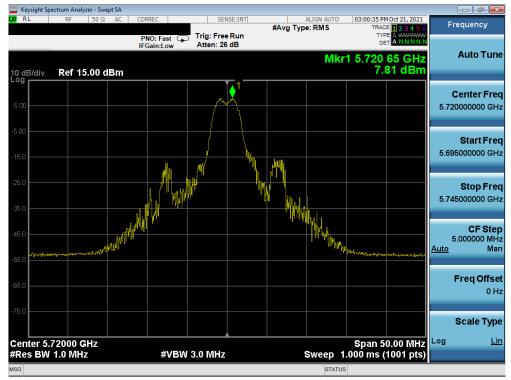
Plot 7-145. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-146. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 427 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 127 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-147. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



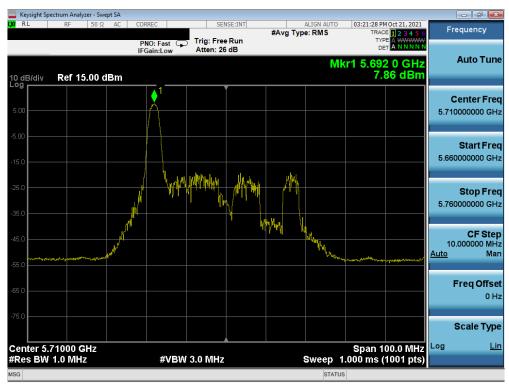
Plot 7-148. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 129 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 128 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





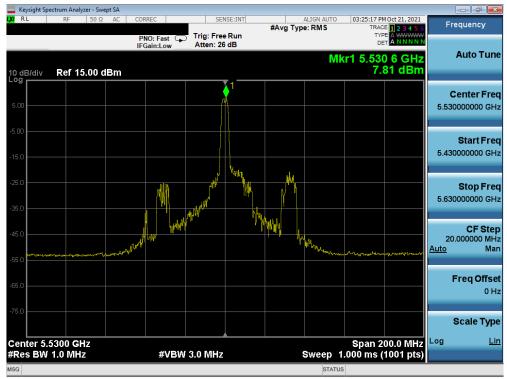
Plot 7-149. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-150. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 120 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 129 of 309





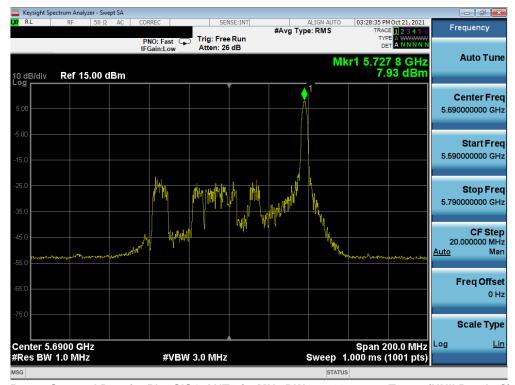
Plot 7-151. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-152. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 130 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Fage 130 01 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-153. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 121 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 131 of 309

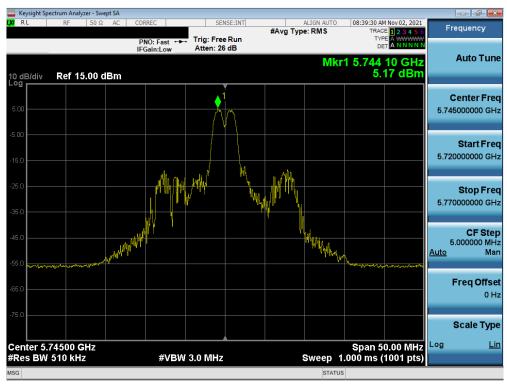


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	5.17	30.00	-24.83
	5785	157	ax (20MHz)	26T	MCS0	5.05	30.00	-24.95
2 pt	5825	165	ax (20MHz)	26T	MCS0	4.82	30.00	-25.18
Band	5755	151	ax (40MHz)	26T	MCS0	5.37	30.00	-24.63
	5795	159	ax (40MHz)	26T	MCS0	5.09	30.00	-24.91
	5775	155	ax (80MHz)	26T	MCS0	6.61	30.00	-23.39

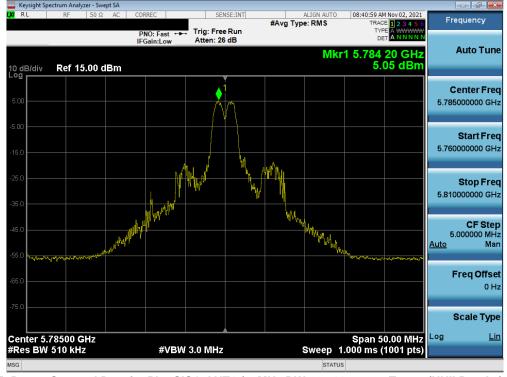
Table 7-63. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 122 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 132 of 309





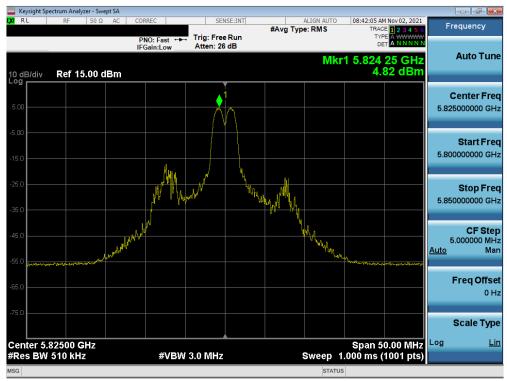
Plot 7-154. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



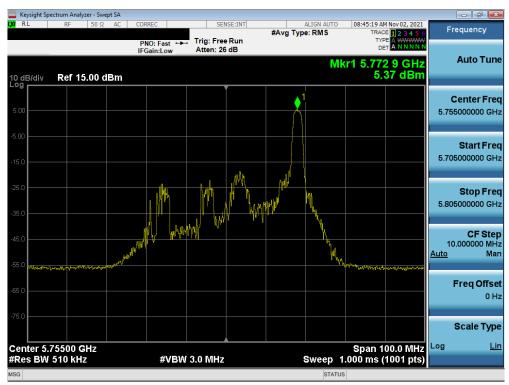
Plot 7-155. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 133 of 309
© 2022 PCTEST	-	•	V 9.0 02/01/2019





Plot 7-156. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



Plot 7-157. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 424 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 134 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





Plot 7-158. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-159. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 125 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 135 of 309
© 2022 PCTEST			V 9.0 02/01/2019



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

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	7.36	30.00	-22.64	-6.20	1.16	14.00	-12.84
Band 4	5865	173	ax (20MHz)	26T	MCS0	8.78			-6.20	2.58	14.00	-11.42
Dallu 4	5885	177	ax (20MHz)	26T	MCS0	6.08			-6.20	-0.12	14.00	-14.12
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	8.75	30.00	-21.25	-6.20	2.55	14.00	-11.45
Band 4	5875	175	ax (40MHz)	26T	MCS0	8.40			-6.20	2.20	14.00	-11.81
Band 3/4	5855	171	ax (80MHz)	26T	MCS0	13.43	30.00	-16.58	-6.20	7.23	14.00	-6.78

Table 7-64. Band 4 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

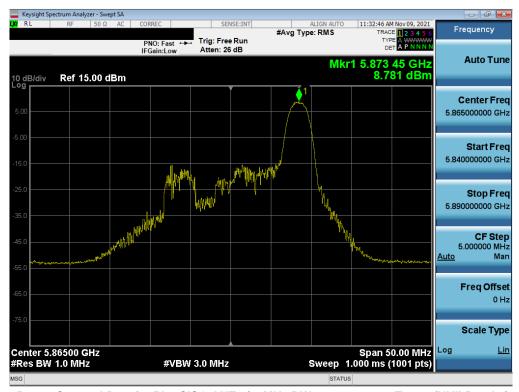


Plot 7-160. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 126 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 136 of 309

© 2022 PCTEST V 9.0 02/01/2019





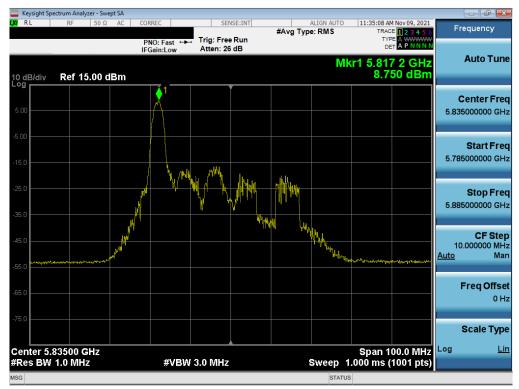
Plot 7-161. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 173)



Plot 7-162. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 127 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 137 of 309
© 2022 PCTEST	•		V 9.0 02/01/2019





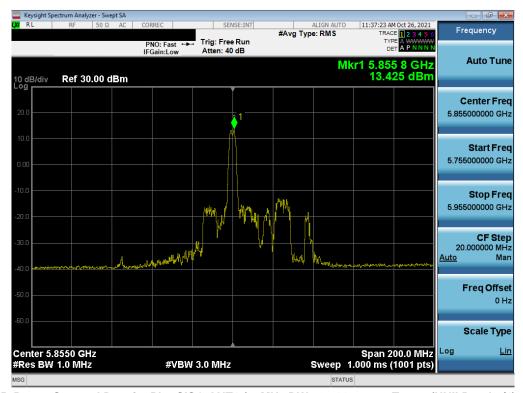
Plot 7-163. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 167)



Plot 7-164. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 138 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 130 of 309





Plot 7-165. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 120 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 139 of 309



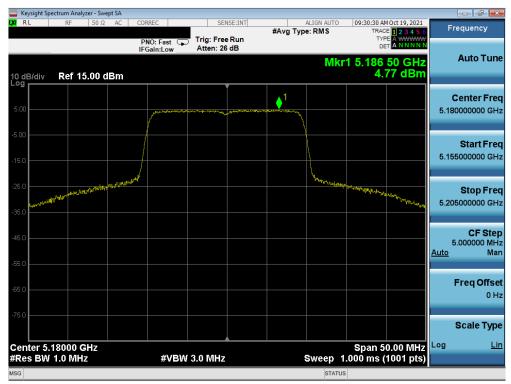
SISO Antenna-1 Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	4.77	11.0	-6.23
	5200	40	ax (20MHz)	242T	MCS0	4.83	11.0	-6.17
Band 1	5240	48	ax (20MHz)	242T	MCS0	4.87	11.0	-6.13
Bar	5190	38	ax (40MHz)	484T	MCS0	3.91	11.0	-7.09
	5230	46	ax (40MHz)	484T	MCS0	4.16	11.0	-6.84
	5210	42	ax (80MHz)	996T	MCS0	0.76	11.0	-10.24
	5260	52	ax (20MHz)	242T	MCS0	4.98	11.0	-6.02
	5280	56	ax (20MHz)	242T	MCS0	4.84	11.0	-6.16
Band 2A	5320	64	ax (20MHz)	242T	MCS0	4.76	11.0	-6.24
Ban	5270	54	ax (40MHz)	484T	MCS0	3.98	11.0	-7.02
	5310	62	ax (40MHz)	484T	MCS0	3.84	11.0	-7.16
	5290	58	ax (80MHz)	996T	MCS0	0.57	11.0	-10.43
	5500	100	ax (20MHz)	242T	MCS0	4.27	11.0	-6.73
	5600	120	ax (20MHz)	242T	MCS0	5.19	11.0	-5.81
	5720	144	ax (20MHz)	242T	MCS0	4.34	11.0	-6.66
ပ္ထ	5510	102	ax (40MHz)	484T	MCS0	3.50	11.0	-7.50
Band 2C	5590	118	ax (40MHz)	484T	MCS0	3.41	11.0	-7.59
Ä	5710	142	ax (40MHz)	484T	MCS0	3.14	11.0	-7.86
	5530	106	ax (80MHz)	996T	MCS0	0.52	11.0	-10.48
	5610	122	ax (80MHz)	996T	MCS0	0.20	11.0	-10.80
	5690	138	ax (80MHz)	996T	MCS0	0.13	11.0	-10.87

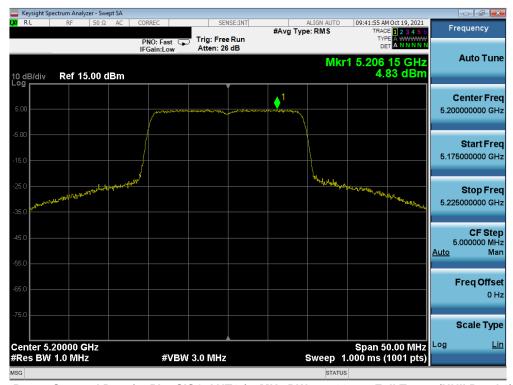
Table 7-65. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 140 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 140 of 309





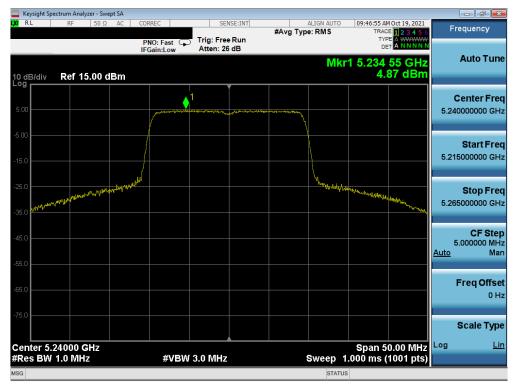
Plot 7-166. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



Plot 7-167. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 141 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Fage 141 01 309





Plot 7-168. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



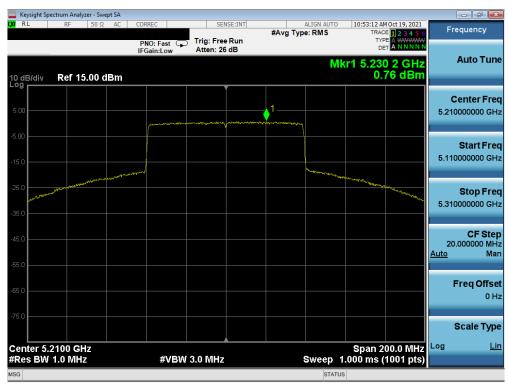
Plot 7-169. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 142 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 142 01 309





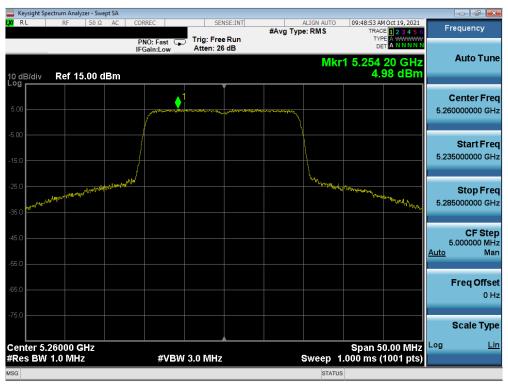
Plot 7-170. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



Plot 7-171. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 142 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 143 of 309





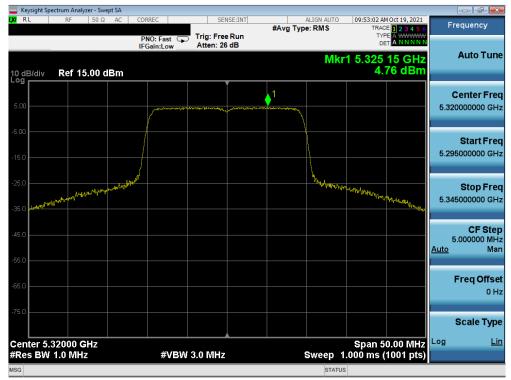
Plot 7-172. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



Plot 7-173. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 144 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 144 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





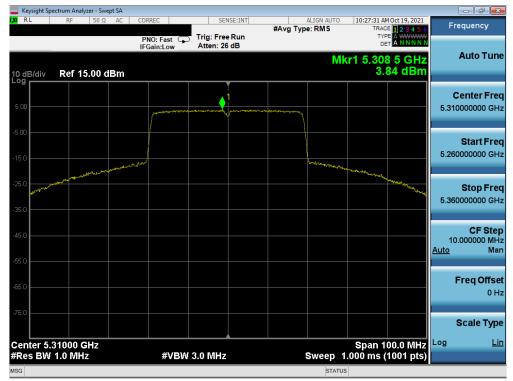
Plot 7-174. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



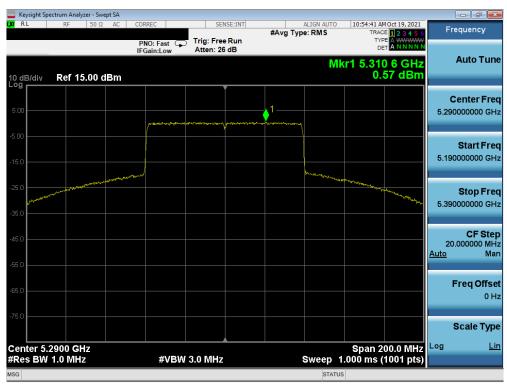
Plot 7-175. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 145 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 145 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





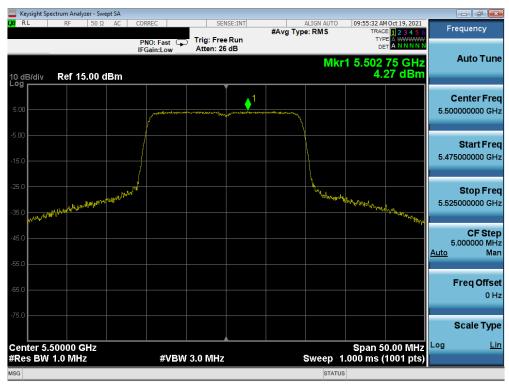
Plot 7-176. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



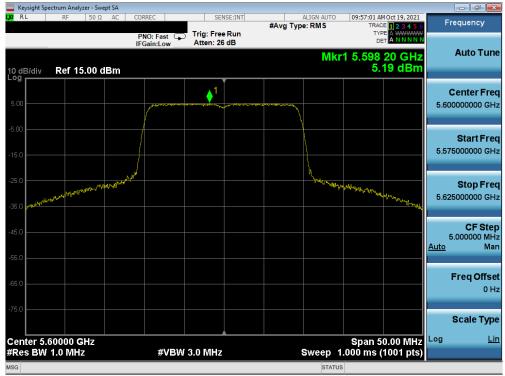
Plot 7-177. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS901JPN	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 146 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Fage 146 01 309
© 2022 PCTEST			V 9.0 02/01/2019





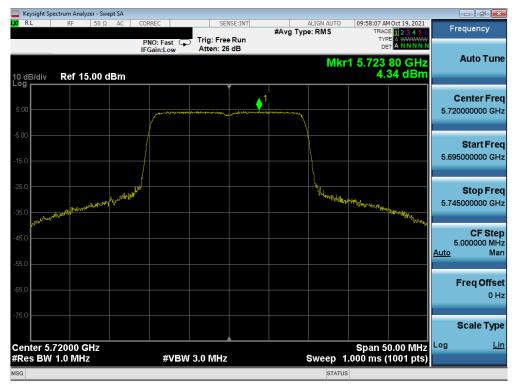
Plot 7-178. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



Plot 7-179. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 147 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 147 of 309





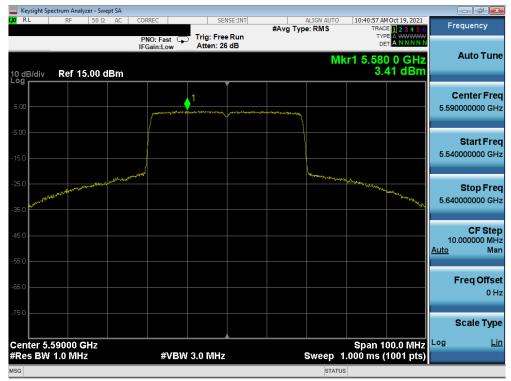
Plot 7-180. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



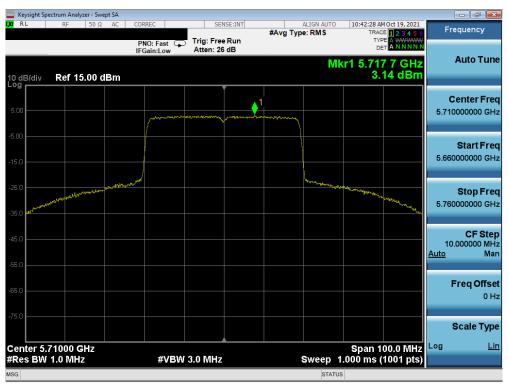
Plot 7-181. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 449 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 148 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-182. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



Plot 7-183. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS901JPN	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 440 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 149 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-184. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-185. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 150 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 150 of 309





Plot 7-186. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 151 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 151 of 309

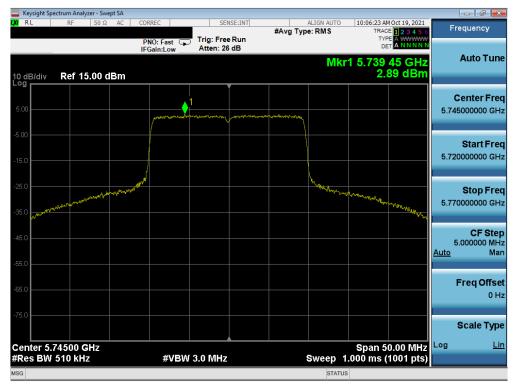


	Frequency [MHz]	Channel No.	802.11 M ode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	2.89	30.00	-27.11
	5785	157	ax (20MHz)	242T	MCS0	2.75	30.00	-27.25
5 pc	5825	165	ax (20MHz)	242T	MCS0	2.76	30.00	-27.24
Band	5755	151	ax (40MHz)	484T	MCS0	0.56	30.00	-29.44
	5795	159	ax (40MHz)	484T	MCS0	0.49	30.00	-29.51
	5775	155	ax (80MHz)	996T	MCS0	-2.92	30.00	-32.92

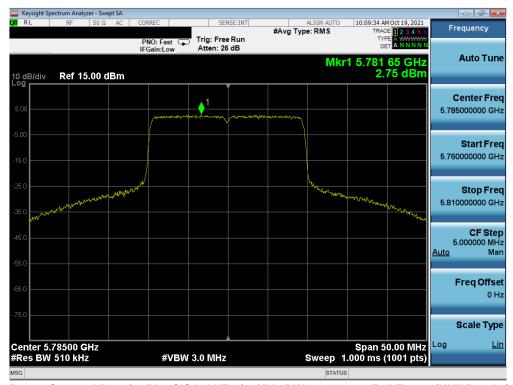
Table 7-66. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 152 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 152 of 309





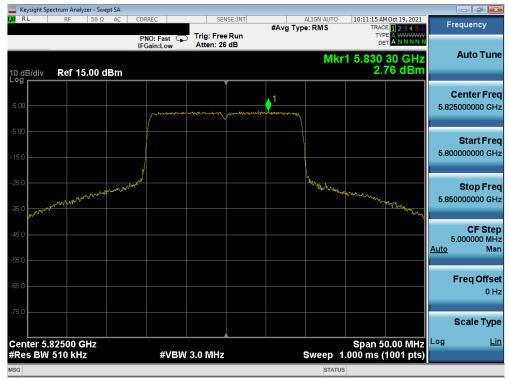
Plot 7-187. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



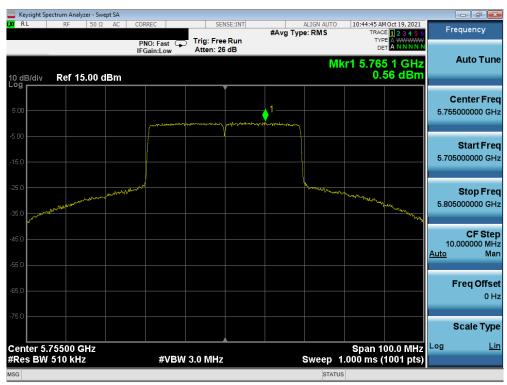
Plot 7-188. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 452 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 153 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





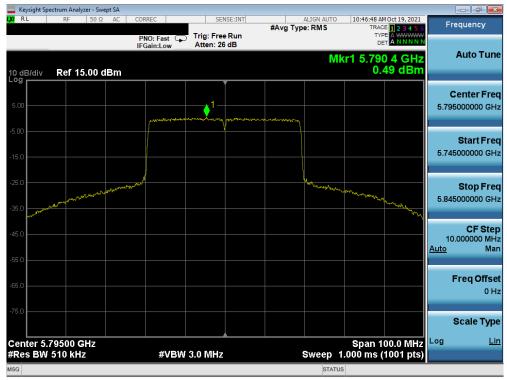
Plot 7-189. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



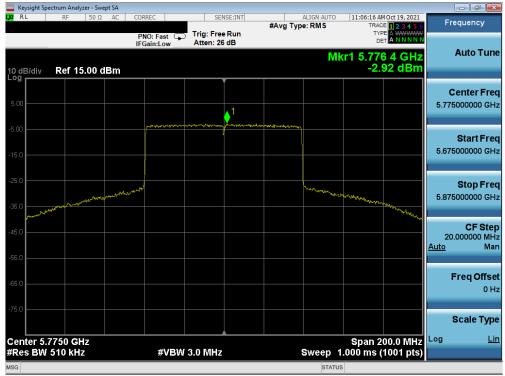
Plot 7-190. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 154 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 154 of 309





Plot 7-191. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-192. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dog 455 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 155 of 309
© 2022 PCTEST			V 9.0 02/01/2019

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.

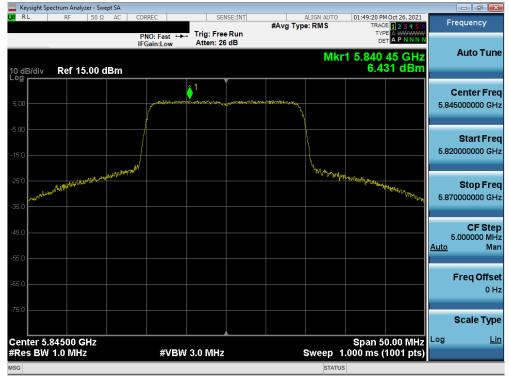


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	6.43	30.00	-23.57	-6.20	0.23	14.00	-13.77
Band 4	5865	173	ax (20MHz)	242T	MCS0	6.33			-6.20	0.13	14.00	-13.87
Dallu 4	5885	177	ax (20MHz)	242T	MCS0	6.15			-6.20	-0.05	14.00	-14.05
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	2.53	30.00	-27.47	-6.20	-3.67	14.00	-17.67
Band 4	5875	175	ax (40MHz)	484T	MCS0	2.79			-6.20	-3.41	14.00	-17.41
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	0.31	30.00	-29.69	-6.20	-5.89	14.00	-19.89

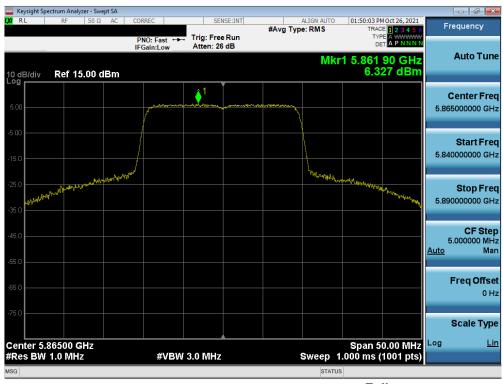
Table 7-67. Band 4 Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 156 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 156 of 309





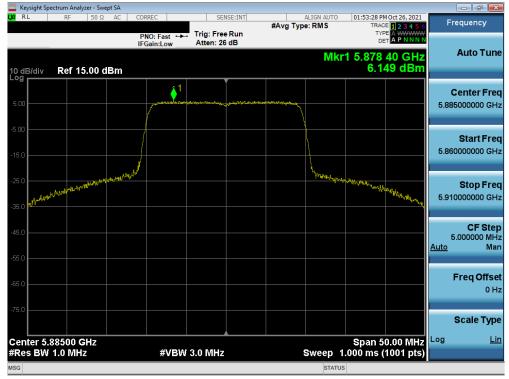
Plot 7-193. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3/4) - Ch. 169)



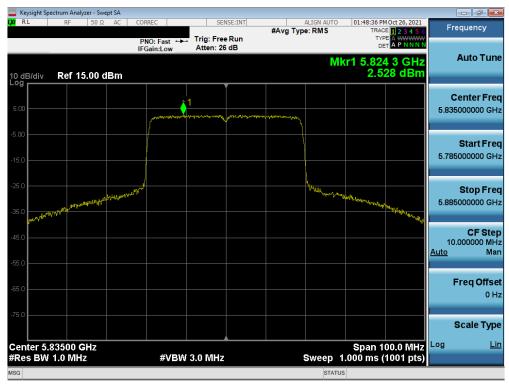
Plot 7-194. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 157 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 157 of 309





Plot 7-195. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 4) - Ch. 177)



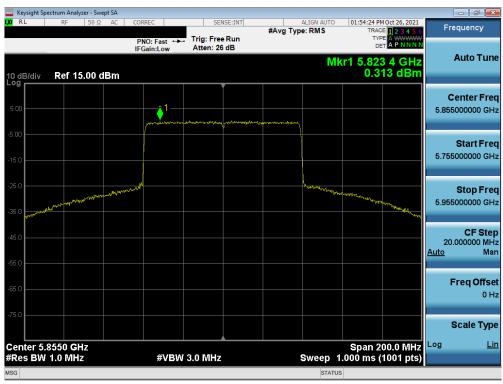
Plot 7-196. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 158 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Fage 136 01 309





Plot 7-197. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 4) - Ch. 175)



Plot 7-198. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 450 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 159 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019



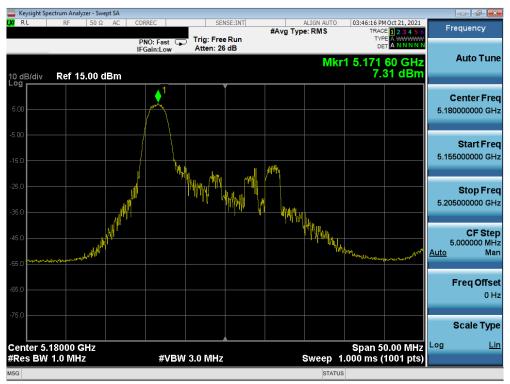
SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	7.31	11.0	-3.69
	5200	40	ax (20MHz)	26T	MCS0	7.30	11.0	-3.70
D	5240	48	ax (20MHz)	26T	MCS0	7.80	11.0	-3.20
Band 1	5190	38	ax (40MHz)	26T	MCS0	7.44	11.0	-3.56
_	5230	46	ax (40MHz)	26T	MCS0	7.74	11.0	-3.26
	5210	42	ax (80MHz)	26T	MCS0	7.41	11.0	-3.59
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.91	11.0	-3.09
	5280	56	ax (20MHz)	26T	MCS0	8.02	11.0	-2.98
	5320	64	ax (20MHz)	26T	MCS0	7.82	11.0	-3.18
	5270	54	ax (40MHz)	26T	MCS0	7.62	11.0	-3.38
	5310	62	ax (40MHz)	26T	MCS0	7.72	11.0	-3.28
	5290	58	ax (80MHz)	26T	MCS0	7.86	11.0	-3.14
	5500	100	ax (20MHz)	26T	MCS0	7.86	11.0	-3.14
	5600	120	ax (20MHz)	26T	MCS0	7.77	11.0	-3.23
	5720	144	ax (20MHz)	26T	MCS0	8.06	11.0	-2.94
2C	5510	102	ax (40MHz)	26T	MCS0	8.08	11.0	-2.92
Band 2C	5590	118	ax (40MHz)	26T	MCS0	7.80	11.0	-3.20
Ba	5710	142	ax (40MHz)	26T	MCS0	7.79	11.0	-3.21
	5530	106	ax (80MHz)	26T	MCS0	7.83	11.0	-3.17
	5610	122	ax (80MHz)	26T	MCS0	7.67	11.0	-3.33
	5690	138	ax (80MHz)	26T	MCS0	7.52	11.0	-3.48

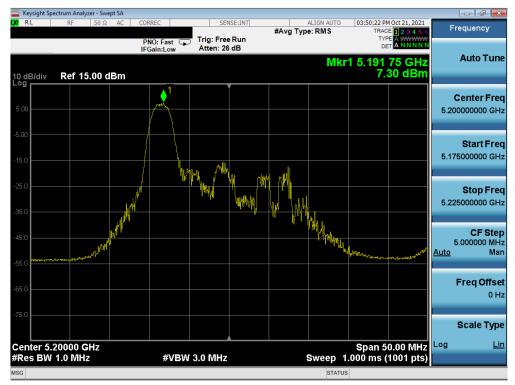
Table 7-68. Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Dogg 160 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 160 of 309





Plot 7-199. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



Plot 7-200. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 464 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 161 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





Plot 7-201. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



Plot 7-202. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 462 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 162 of 309
© 2022 PCTEST			V 9.0 02/01/2019

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





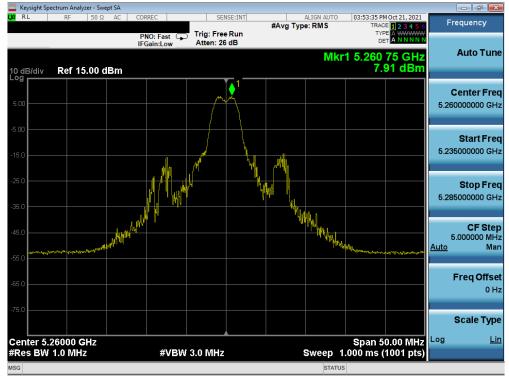
Plot 7-203. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



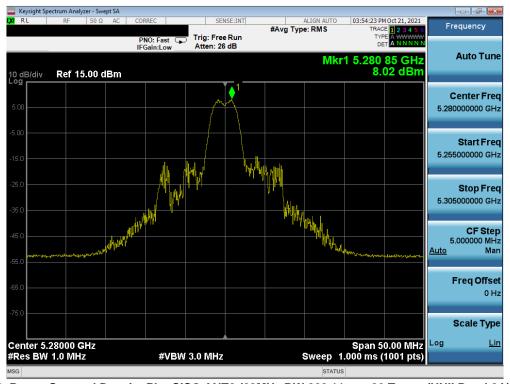
Plot 7-204. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS901JPN Proud to be part of @element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Dogo 162 of 200
1M2112090153-12.A3L 09/22- 11/09/2021		Portable Handset	Page 163 of 309





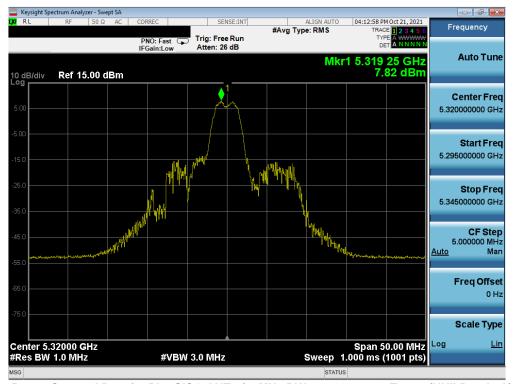
Plot 7-205. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



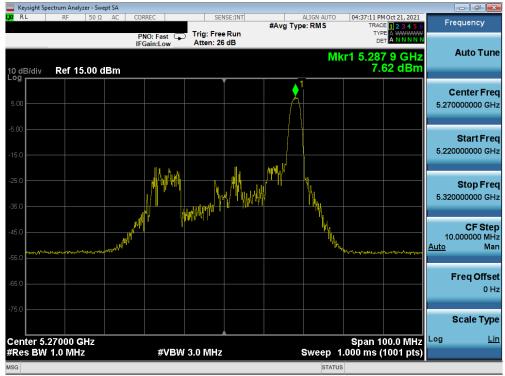
Plot 7-206. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS901JPN Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Dogo 164 of 200
1M2112090153-12.A3L 09/22- 11/09/2021		Portable Handset	Page 164 of 309





Plot 7-207. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



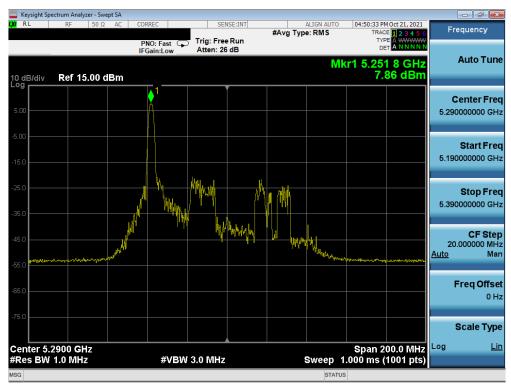
Plot 7-208. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 405 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 165 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





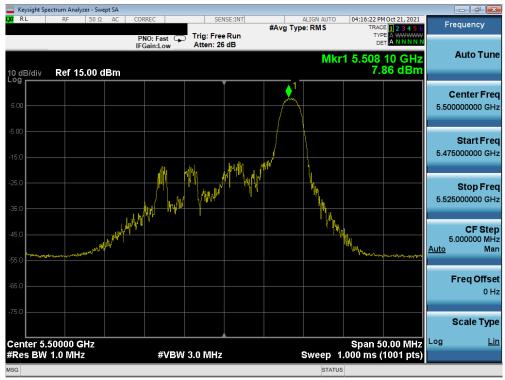
Plot 7-209. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



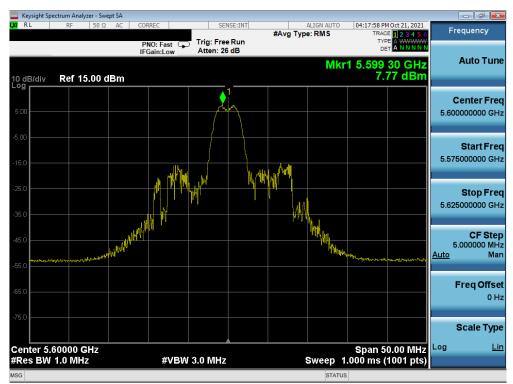
Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 166 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 166 of 309





Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 167 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 167 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





Plot 7-213. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



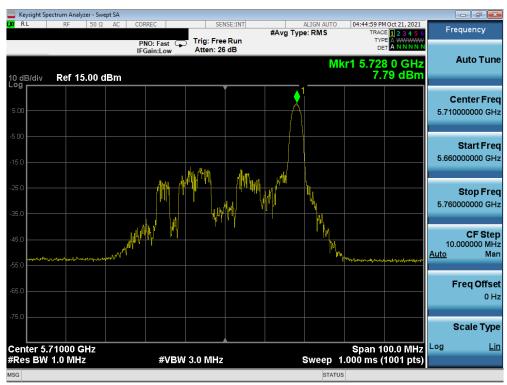
Plot 7-214. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 460 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 168 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





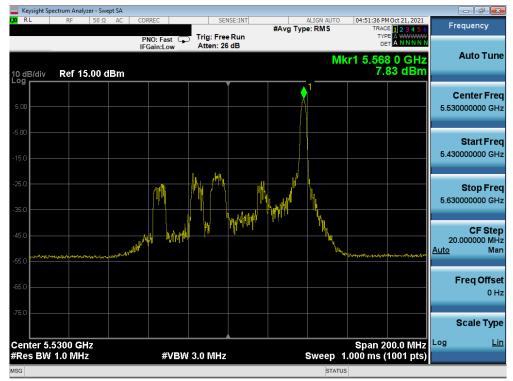
Plot 7-215. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-216. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 460 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 169 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-217. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-218. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 170 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 170 of 309





Plot 7-219. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 171 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 171 of 309

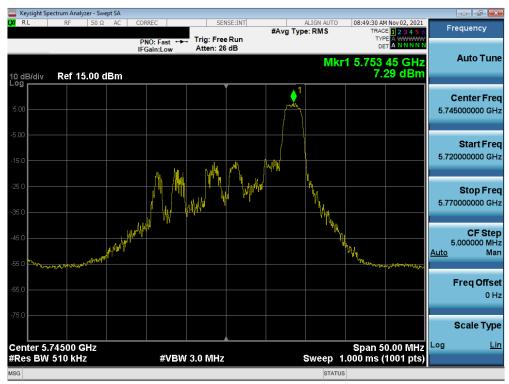


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	7.29	30.00	-22.71
က	5785	157	ax (20MHz)	26T	MCS0	6.98	30.00	-23.02
	5825	165	ax (20MHz)	26T	MCS0	7.08	30.00	-22.92
Band	5755	151	ax (40MHz)	26T	MCS0	7.02	30.00	-22.98
	5795	159	ax (40MHz)	26T	MCS0	6.73	30.00	-23.27
	5775	155	ax (80MHz)	26T	MCS0	7.13	30.00	-22.87

Table 7-69. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 172 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 172 of 309





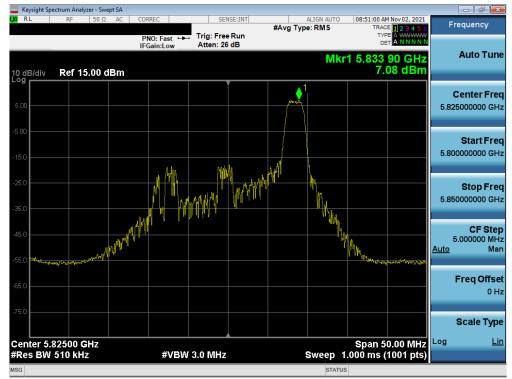
Plot 7-220. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-221. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 472 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 173 of 309
© 2022 PCTEST	•	•	V 9.0 02/01/2019





Plot 7-222. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



Plot 7-223. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 474 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 174 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-224. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



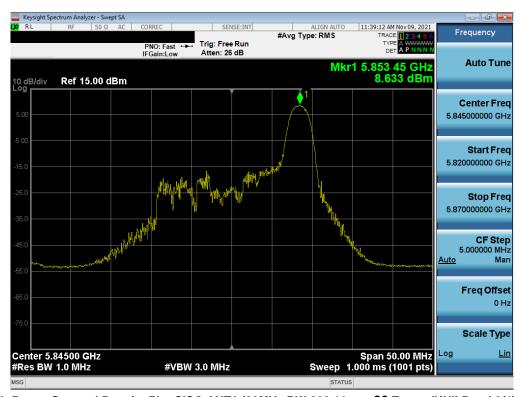
Plot 7-225. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 475 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 175 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019



	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	8.63	30.00	-21.37	-7.80	0.83	14.00	-13.17
Band 4	5865	173	ax (20MHz)	26T	MCS0	7.72			-7.80	-0.08	14.00	-14.08
Dallu 4	5885	177	ax (20MHz)	26T	MCS0	7.41			-7.80	-0.39	14.00	-14.39
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	8.52	30.00	-21.48	-7.80	0.72	14.00	-13.28
Band 4	5875	175	ax (40MHz)	26T	MCS0	8.39			-7.80	0.59	14.00	-13.41
Band 3/4	5855	171	ax (80MHz)	26T	MCS0	8.31	30.00	-21.69	-7.80	0.51	14.00	-13.49

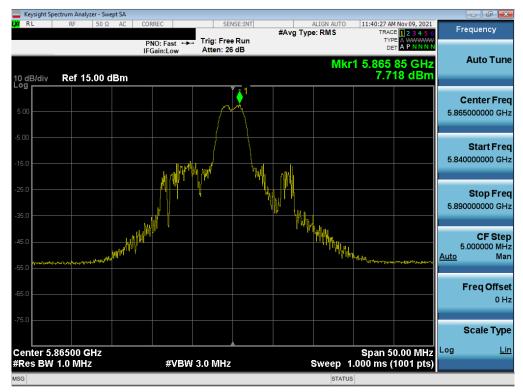
Table 7-70. Band 4 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)



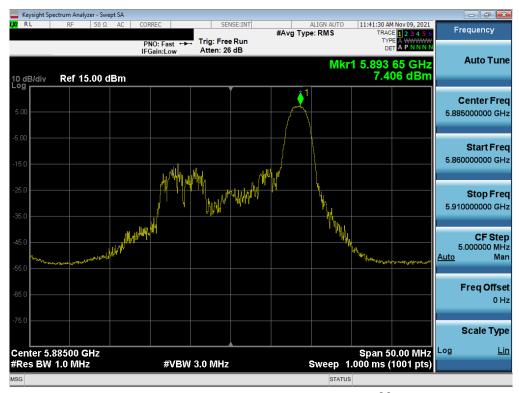
Plot 7-226. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 176 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 176 of 309





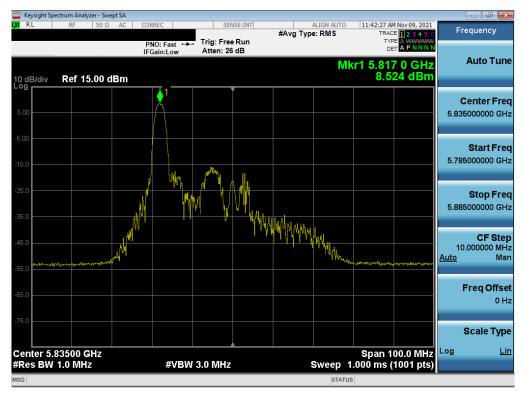
Plot 7-227. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 173)



Plot 7-228. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 177 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 177 of 309
© 2022 PCTEST	-	•	V 9.0 02/01/2019





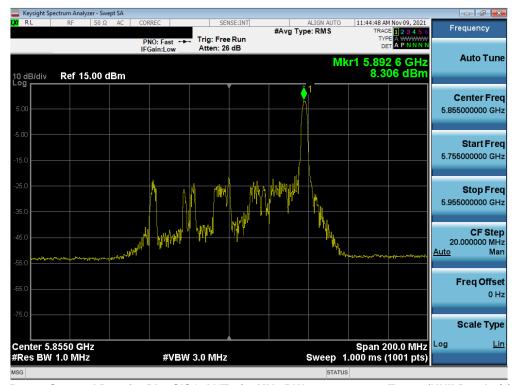
Plot 7-229. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 167)



Plot 7-230. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 179 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 178 of 309





Plot 7-231. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 170 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 179 of 309



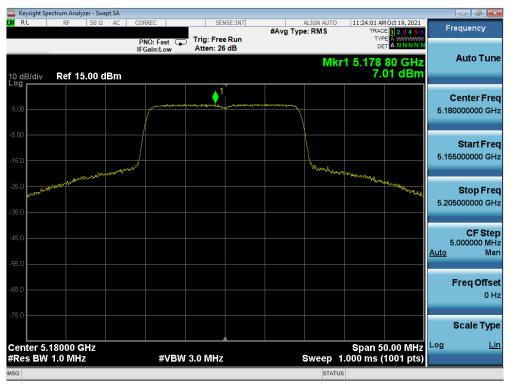
SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	7.01	11.0	-3.99
	5200	40	ax (20MHz)	242T	MCS0	7.09	11.0	-3.91
Band 1	5240	48	ax (20MHz)	242T	MCS0	7.10	11.0	-3.90
Bar	5190	38	ax (40MHz)	484T	MCS0	3.80	11.0	-7.20
	5230	46	ax (40MHz)	484T	MCS0	3.76	11.0	-7.24
	5210	42	ax (80MHz)	996T	MCS0	0.18	11.0	-10.82
	5260	52	ax (20MHz)	242T	MCS0	6.87	11.0	-4.13
	5280	56	ax (20MHz)	242T	MCS0	6.77	11.0	-4.23
Band 2A	5320	64	ax (20MHz)	242T	MCS0	6.26	11.0	-4.74
Ban	5270	54	ax (40MHz)	484T	MCS0	3.49	11.0	-7.52
	5310	62	ax (40MHz)	484T	MCS0	3.13	11.0	-7.87
	5290	58	ax (80MHz)	996T	MCS0	-0.09	11.0	-11.09
	5500	100	ax (20MHz)	242T	MCS0	6.17	11.0	-4.83
	5600	120	ax (20MHz)	242T	MCS0	6.54	11.0	-4.46
	5720	144	ax (20MHz)	242T	MCS0	6.47	11.0	-4.53
ပ္က	5510	102	ax (40MHz)	484T	MCS0	2.95	11.0	-8.05
Band 2C	5590	118	ax (40MHz)	484T	MCS0	3.60	11.0	-7.40
ă	5710	142	ax (40MHz)	484T	MCS0	3.29	11.0	-7.71
	5530	106	ax (80MHz)	996T	MCS0	0.17	11.0	-10.83
	5610	122	ax (80MHz)	996T	MCS0	-0.01	11.0	-11.01
	5690	138	ax (80MHz)	996T	MCS0	0.11	11.0	-10.89

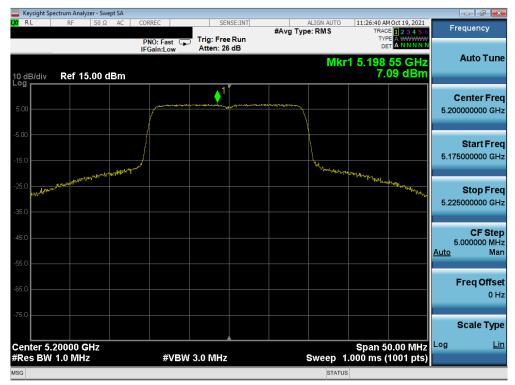
Table 7-71. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Page 180 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 100 of 309





Plot 7-232. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



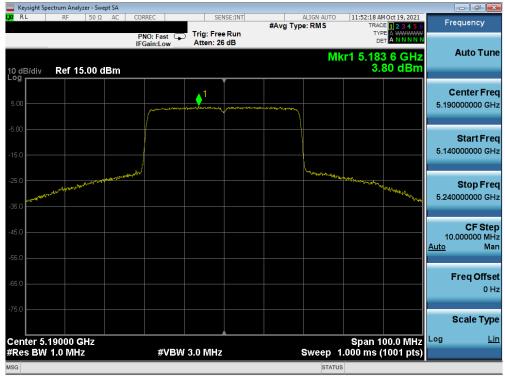
Plot 7-233. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 191 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 181 of 309
© 2022 PCTEST			V 9.0 02/01/2019





Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



Plot 7-235. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

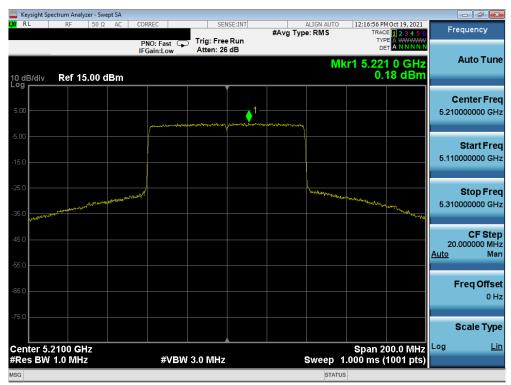
FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 102 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 182 of 309
© 2022 PCTEST			V 9.0 02/01/2019

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





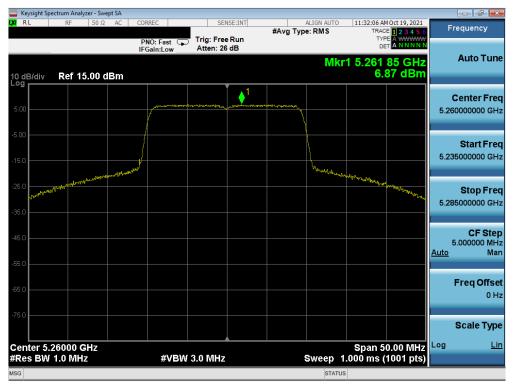
Plot 7-236. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



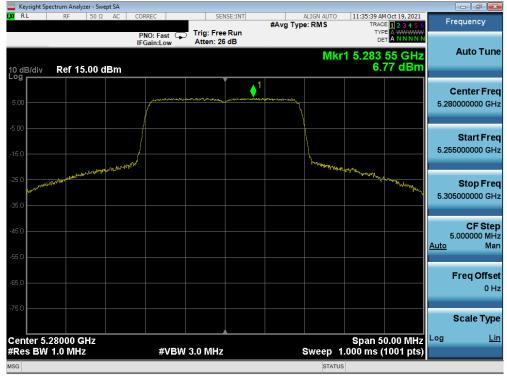
Plot 7-237. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 192 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 183 of 309





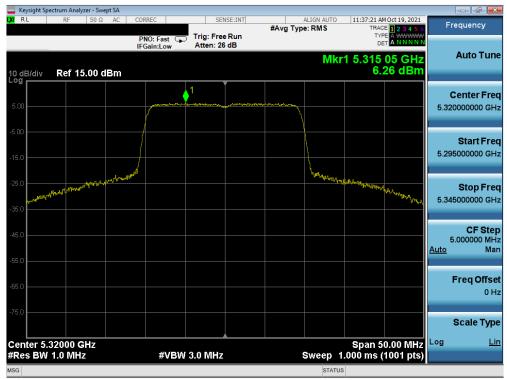
Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



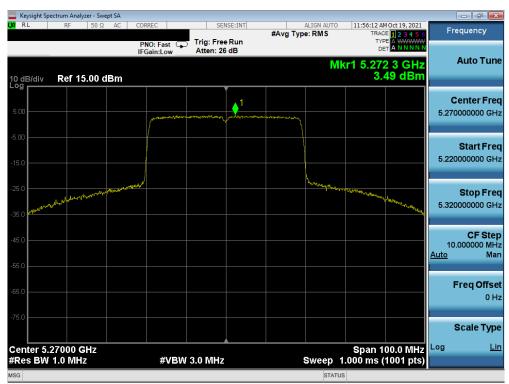
Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 194 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 184 of 309
© 2022 PCTEST	•	·	V 9.0 02/01/2019





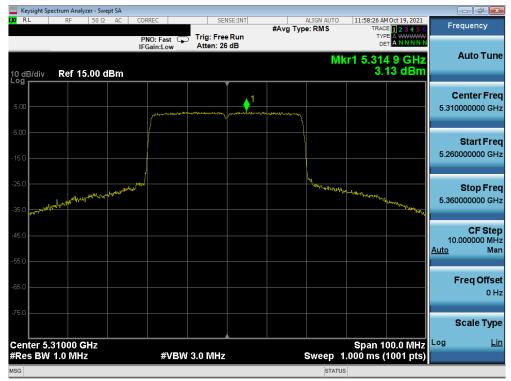
Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



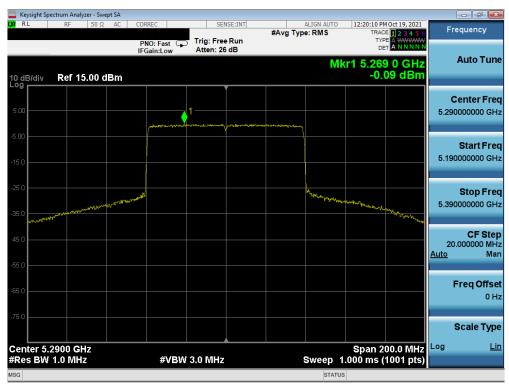
Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Page 185 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 105 01 509





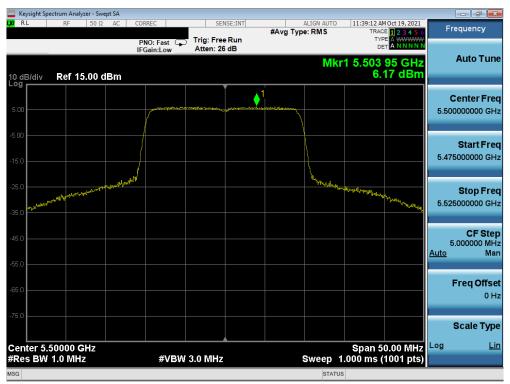
Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



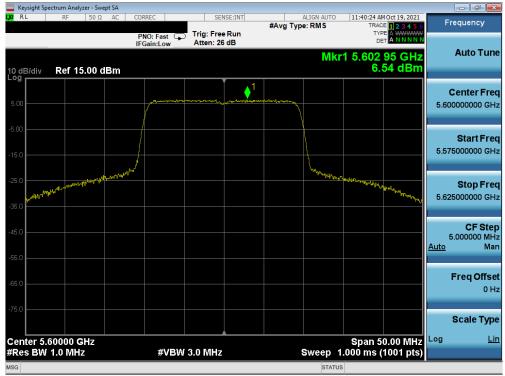
Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 186 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 100 01 309





Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)

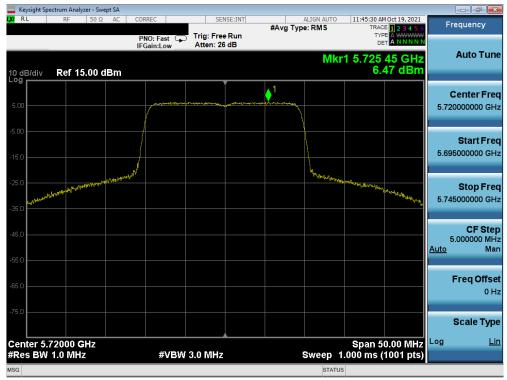


Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

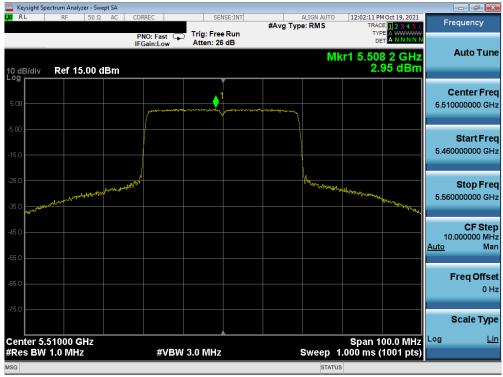
FCC ID: A3LSMS901JPN	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 107 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 187 of 309
© 2022 PCTEST			V 9.0 02/01/2019

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



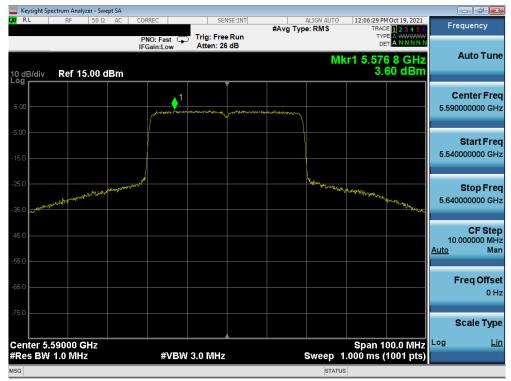
Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 188 of 309
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	rage 100 of 309

© 2022 PCTEST

All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact INFO@PCTEST.COM.





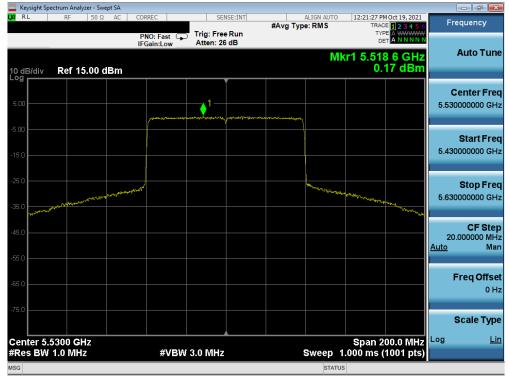
Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



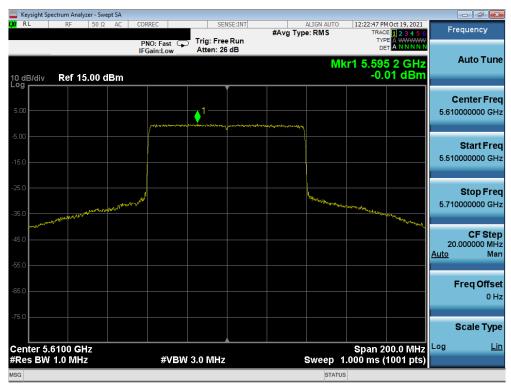
Plot 7-249. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 190 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 189 of 309





Plot 7-250. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-251. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS901JPN	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 200
1M2112090153-12.A3L	09/22- 11/09/2021	Portable Handset	Page 190 of 309