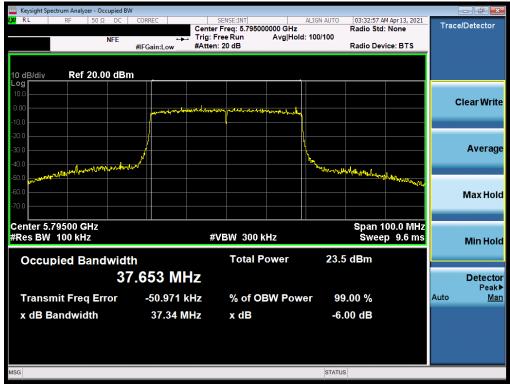




Plot 7-177. 6dB Bandwidth Plot SISO ANT 1 (40MHz 802.11ax (UNII Band 3) - Ch. 151)



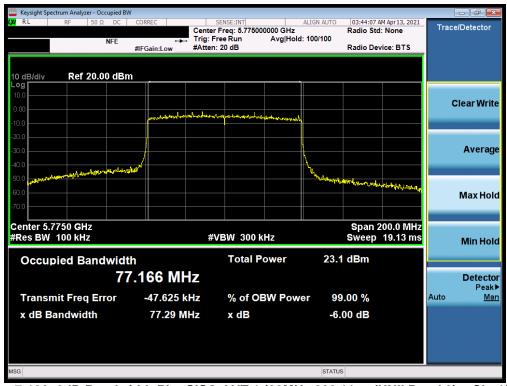
Plot 7-178. 6dB Bandwidth Plot SISO ANT 1 (40MHz 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Technical Manager
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Plot 7-179. 6dB Bandwidth Plot SISO ANT 1 (80MHz 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-180. 6dB Bandwidth Plot SISO ANT 1 (80MHz 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 110 of 200
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## MIMO 6dB Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 6dB Bandwidth [MHz]	Antenna-2 6dB Bandwidth [MHz]
	5745	149	а	6	16.06	16.27
	5785	157	а	6	16.02	17.17
	5825	165	а	6	16.34	17.20
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	16.88	16.86
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	16.87	17.18
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	16.84	17.19
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	18.51	18.74
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.92	18.86
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.82	18.77
	5755	151	n (40MHz)	13.5/15 (MCS0)	34.13	35.41
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.26	34.37
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.65	37.82
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.55	38.00
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.42	74.94
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.68	76.49

**Table 7-5. Conducted Bandwidth Measurements MIMO** 



Plot 7-181. 6dB Bandwidth Plot MIMO ANT 1 (802.11a (UNII Band 3) - Ch. 149)

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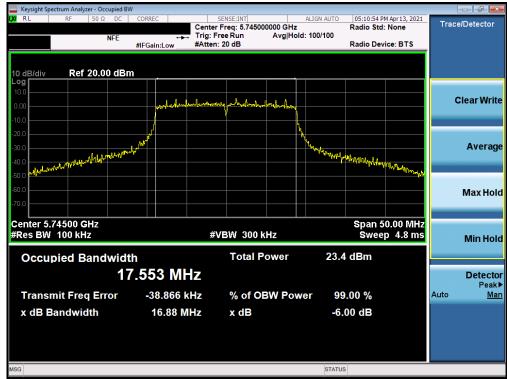
Plot 7-182. 6dB Bandwidth Plot MIMO ANT 1 (802.11a (UNII Band 3) - Ch. 157)



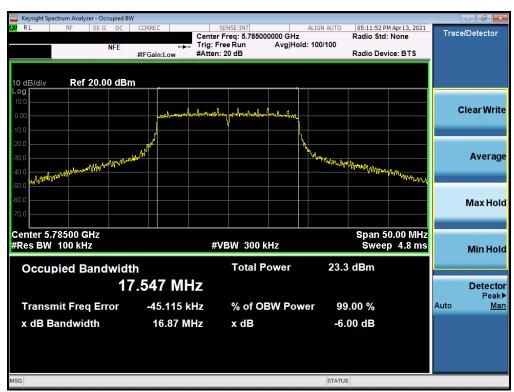
Plot 7-183. 6dB Bandwidth Plot MIMO ANT 1 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-184. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11n (UNII Band 3) - Ch. 149)



Plot 7-185. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 112 of 200
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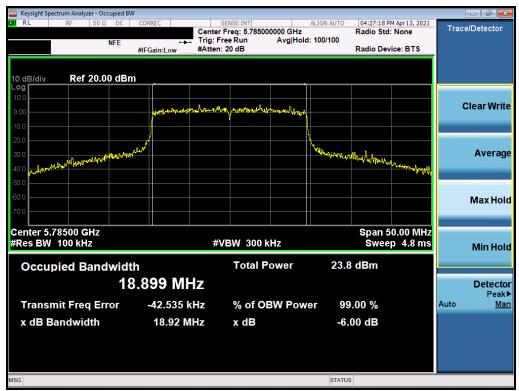
Plot 7-186. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11n (UNII Band 3) - Ch. 165)



Plot 7-187. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-188. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11ax (UNII Band 3) - Ch. 157)



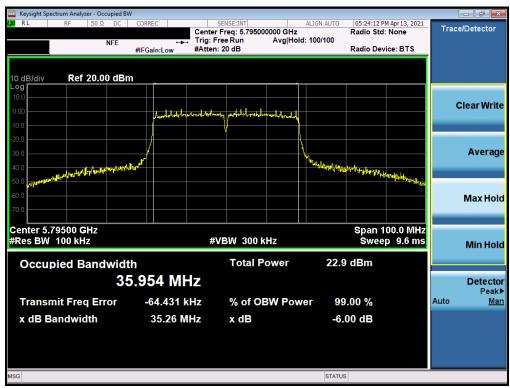
Plot 7-189. 6dB Bandwidth Plot MIMO ANT 1 (20MHz 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	UNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 115 of 200
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Plot 7-190. 6dB Bandwidth Plot MIMO ANT 1 (40MHz 802.11n (UNII Band 3) - Ch. 151)



Plot 7-191. 6dB Bandwidth Plot MIMO ANT 1 (40MHz 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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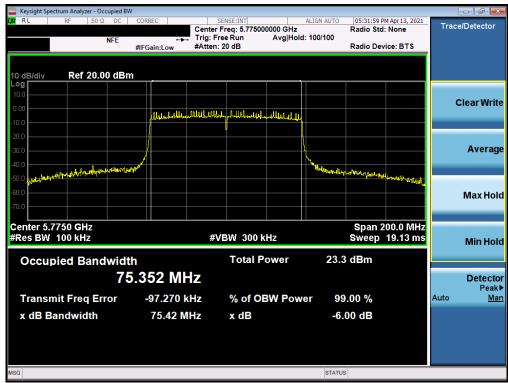
Plot 7-192. 6dB Bandwidth Plot MIMO ANT 1 (40MHz 802.11ax (UNII Band 3) - Ch. 151)



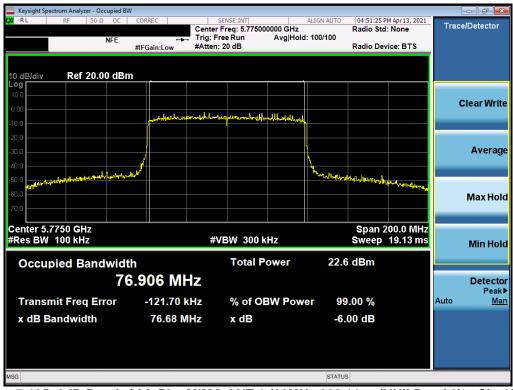
Plot 7-193. 6dB Bandwidth Plot MIMO ANT 1 (40MHz 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 117 of 200
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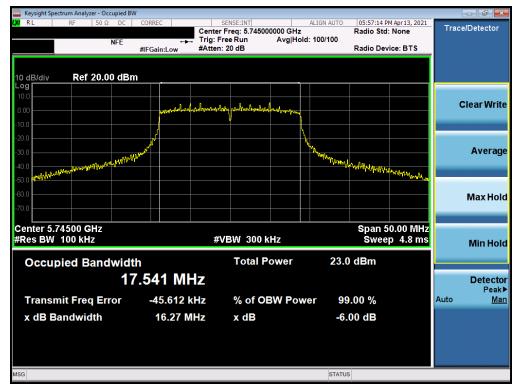
Plot 7-194. 6dB Bandwidth Plot MIMO ANT 1 (80MHz 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-195. 6dB Bandwidth Plot MIMO ANT 1 (80MHz 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 110 of 200
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Plot 7-196. 6dB Bandwidth Plot MIMO ANT 2 (802.11a (UNII Band 3) - Ch. 149)



Plot 7-197. 6dB Bandwidth Plot MIMO ANT 2 (802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 440 of 200
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Plot 7-198. 6dB Bandwidth Plot MIMO ANT 2 (802.11a (UNII Band 3) - Ch. 165)



Plot 7-199. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11n (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 120 of 200
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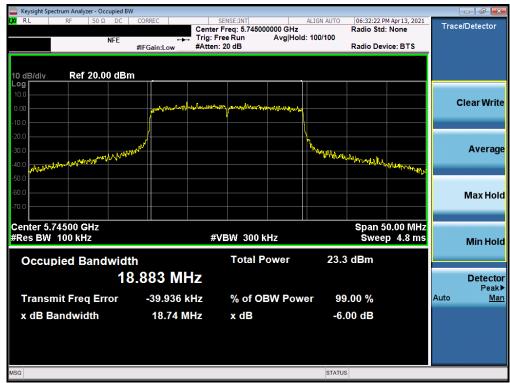
Plot 7-200. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11n (UNII Band 3) - Ch. 157)



Plot 7-201. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11n (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 424 of 200
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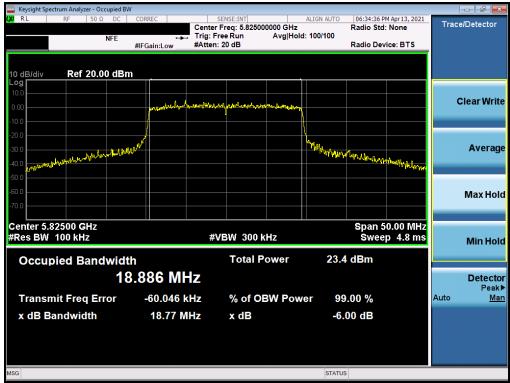
Plot 7-202. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11ax (UNII Band 3) - Ch. 149)



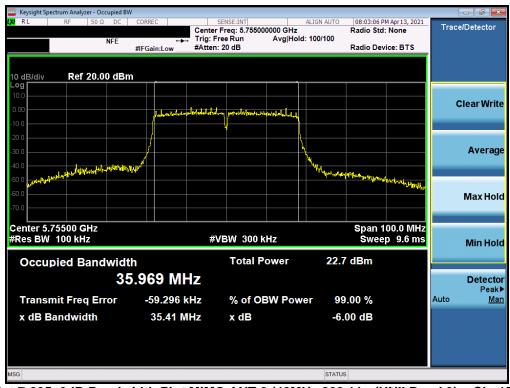
Plot 7-203. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11ax (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 122 of 200
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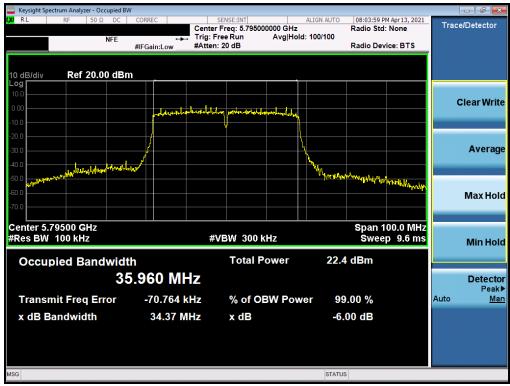
Plot 7-204. 6dB Bandwidth Plot MIMO ANT 2 (20MHz 802.11ax (UNII Band 3) - Ch. 165)



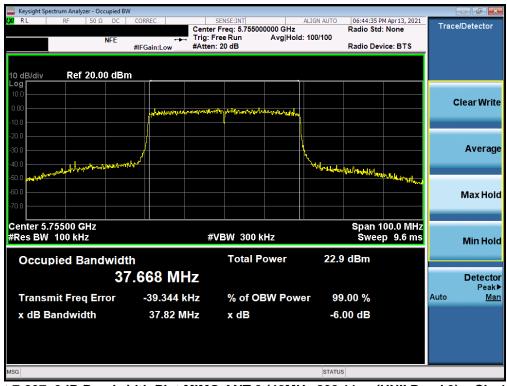
Plot 7-205. 6dB Bandwidth Plot MIMO ANT 2 (40MHz 802.11n (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 422 of 200
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Plot 7-206. 6dB Bandwidth Plot MIMO ANT 2 (40MHz 802.11n (UNII Band 3) - Ch. 159)



Plot 7-207. 6dB Bandwidth Plot MIMO ANT 2 (40MHz 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	NSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 104 of 200	
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Plot 7-208. 6dB Bandwidth Plot MIMO ANT 2 (40MHz 802.11ax (UNII Band 3) - Ch. 159)



Plot 7-209. 6dB Bandwidth Plot MIMO ANT 2 (80MHz 802.11ac (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 425 of 200
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Plot 7-210. 6dB Bandwidth Plot MIMO ANT 2 (80MHz 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.4 UNII Output Power Measurement – 802.11a/n/ac/ax §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  $10 + 10 \log 10$ B, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm +  $10\log_{10}(26dB \text{ BW}) = 11 \text{ dBm} + 10\log_{10}(N/A) = N/AdBm$ . 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 +  $10log_{10}(26dB BW) = 11 dBm + 10log_{10}(N/A) = N/AdBm$ . 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.

#### **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

#### **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

### **Test Notes**

Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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	Freq [MHz]	Channel	Detector		IEEE Transm	ission Mode		Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
<u> </u>				802.11a	802.11n	802.11ac	802.11ax	[dBm]	Margin [dB]	ţ	[]		
dth	5180	36	AVG	17.49	17.66	17.65	17.87	23.98	-6.32	-4.75	12.91	23.01	-10.10
, <u> </u>	5200	40	AVG	17.84	17.65	17.64	17.88	23.98	-6.14	-4.75	13.09	23.01	-9.92
₹	5220	44	AVG	17.63	17.85	17.94	17.81	23.98	-6.04	-4.75	13.19	23.01	-9.82
⊆	5240	48	AVG	17.64	17.85	17.90	17.75	23.98	-6.08	-4.75	13.15	23.01	-9.86
Ва	5260	52	AVG	17.70	17.88	17.98	17.79	23.72	-5.74	-5.74	12.24	30.00	-17.76
Z	5280	56	AVG	17.69	17.89	17.94	17.78	23.72	-5.78	-5.74	12.20	30.00	-17.80
エ	5300	60	AVG	17.62	17.83	17.80	17.73	23.72	-5.89	-5.74	12.09	30.00	-17.91
Σ	5320	64	AVG	17.99	17.87	17.82	17.69	23.72	-5.73	-5.74	12.25	30.00	-17.75
20	5500	100	AVG	17.93	17.73	17.82	17.95	23.64	-5.71	-5.11	12.82	30.00	-17.18
	5600	120	AVG	17.89	17.77	17.78	17.99	23.64	-5.75	-5.11	12.78	-	-
ΗZ	5620	124	AVG	17.95	17.69	17.66	17.98	23.64	-5.69	-5.11	12.84	-	-
<u>5</u>	5720	144	AVG	17.96	17.75	17.75	17.93	23.64	-5.68	-5.11	12.85	30.00	-17.15
2	5745	149	AVG	17.76	17.72	17.71	17.93	30.00	-12.24	-8.70	9.06	-	-
	5785	157	AVG	17.94	17.82	17.85	17.99	30.00	-12.06	-8.70	9.24	-	-
	5825	165	AVG	17.85	17.69	17.98	17.95	30.00	-12.02	-8.70	9.28	-	-

Table 7-6. 20MHz BW SISO ANT1 (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				802.11n	802.11ac	802.11ax	[dBm]	Margin [dB]	[GDI]	[ubiii]	Limit [GDm]	margin [ab]
Å C	5190	38	AVG	16.87	16.95	16.74	23.98	-7.03	-4.44	12.51	23.01	-10.50
투	5230	46	AVG	16.92	16.79	16.85	23.98	-7.06	-4.44	12.48	23.01	-10.53
_ O .≌	5270	54	AVG	16.83	16.83	16.89	23.98	-7.15	-4.44	12.39	30.00	-17.61
4) ×	5310	62	AVG	16.91	16.76	16.82	23.98	-7.07	-4.44	12.47	30.00	-17.53
<b>₽</b> €	5510	102	AVG	16.62	16.67	16.59	23.98	-7.31	-4.44	12.23	30.00	-17.77
유 Ba	5590	118	AVG	16.62	16.59	16.72	23.98	-7.36	-4.44	12.18	-	-
50 E	5630	126	AVG	16.55	16.57	16.59	23.98	-7.41	-4.44	12.13	-	-
	5710	142	AVG	16.61	16.81	16.74	23.98	-7.17	-4.44	12.37	30.00	-17.63
	5755	151	AVG	16.85	16.92	16.57	30.00	-13.08	-4.44	12.48	-	-
	5795	159	AVG	16.98	16.98	16.55	30.00	-13.02	-4.44	12.54	-	-

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

	Freq [MHz]	Channel	annel Detector	IEEE Transmission Mode		Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
HZ (c	HZ (c			802.11ac	802.11ax	[dBm]	Margin [dB]		[uDiii]		margin [ab]
(80MH width)	5210	42	AVG	15.72	15.59	23.98	-8.26	-4.44	11.28	23.01	-11.73
	5290	58	AVG	15.82	15.57	23.98	-8.16	-4.44	11.38	30.00	-18.62
5GHz Band	5530	106	AVG	15.98	15.75	23.98	-8.00	-4.44	11.54	30.00	-18.46
5G B	5610	122	AVG	15.99	15.93	23.98	-7.99	-4.44	11.55	-	-
	5690	138	AVG	15.61	15.96	23.98	-8.37	-4.44	11.17	30.00	-18.83
	5775	155	AVG	15.45	15.91	30.00	-14.55	-4.44	11.01	-	-

## Table 7-8. 80MHz BW SISO ANT1 (UNII) Maximum Conducted Output Power

OMI S	Freq [MHz]	Channel	Detector	IEEE Transmission Mode		Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				802.11ac	802.11ax	[dBm]	Margin [dB]				g []
5(16)	5250	50	AVG	14.88	14.81	23.98	-9.10	-4.44	10.44	23.01	-12.57
ă	5570	114	AVG	14.72	14.98	30.00	-15.28	-4.44	10.28	-	-

Table 7-9. 160MHz BW SISO ANT1 (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		9 [42]
늄	5180	36	AVG	17.69	17.66	20.69	23.98	-3.29	-0.22	20.47	23.01	-2.54
. <u>₹</u>	5200	40	AVG	17.75	17.61	20.69	23.98	-3.29	-0.22	20.47	23.01	-2.54
dwidth	5220	44	AVG	17.92	17.60	20.77	23.98	-3.21	-0.22	20.55	23.01	-2.46
an	5240	48	AVG	17.95	17.64	20.81	23.98	-3.17	-0.22	20.59	23.01	-2.42
B	5260	52	AVG	17.99	17.53	20.78	23.72	-2.94	-0.51	20.27	30.00	-9.73
Z	5280	56	AVG	17.91	17.49	20.72	23.72	-3.00	-0.51	20.21	30.00	-9.79
I	5300	60	AVG	17.95	17.58	20.78	23.72	-2.94	-0.51	20.27	30.00	-9.73
Σ	5320	64	AVG	17.92	17.48	20.72	23.72	-3.00	-0.51	20.21	30.00	-9.79
(20	5500	100	AVG	17.69	17.31	20.51	23.64	-3.13	-0.76	19.75	30.00	-10.25
	5600	120	AVG	17.89	17.47	20.70	23.64	-2.94	-0.76	19.94	-	-
HZ	5620	124	AVG	17.76	17.44	20.61	23.64	-3.03	-0.76	19.85	-	-
<u> </u>	5720	144	AVG	17.97	17.30	20.66	23.64	-2.98	-0.76	19.90	30.00	-10.10
5	5745	149	AVG	17.81	17.35	20.60	30.00	-9.40	-2.25	18.35	-	-
	5785	157	AVG	17.91	17.21	20.58	30.00	-9.42	-2.25	18.33	-	-
	5825	165	AVG	17.76	17.67	20.73	30.00	-9.27	-2.25	18.48	-	-

Table 7-10. a-mode MIMO (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Cond	lucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u> </u>				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		9 [42]
품	5180	36	AVG	17.59	17.53	20.57	23.98	-3.41	-0.22	20.35	23.01	-2.66
<u> </u>	5200	40	AVG	17.65	17.46	20.57	23.98	-3.41	-0.22	20.35	23.01	-2.66
₹	5220	44	AVG	17.62	17.48	20.56	23.98	-3.42	-0.22	20.34	23.01	-2.67
andwidth	5240	48	AVG	17.63	17.45	20.55	23.98	-3.43	-0.22	20.33	23.01	-2.68
Ba	5260	52	AVG	17.92	17.43	20.69	23.72	-3.03	-0.51	20.18	30.00	-9.82
N	5280	56	AVG	17.86	17.39	20.64	23.72	-3.08	-0.51	20.13	30.00	-9.87
I	5300	60	AVG	17.78	17.34	20.58	23.72	-3.14	-0.51	20.07	30.00	-9.93
Σ	5320	64	AVG	17.64	17.34	20.50	23.72	-3.22	-0.51	19.99	30.00	-10.01
(20M	5500	100	AVG	17.75	17.34	20.56	23.64	-3.08	-0.76	19.80	30.00	-10.20
	5600	120	AVG	17.77	17.36	20.58	23.64	-3.06	-0.76	19.82	-	
Hz	5620	124	AVG	17.78	17.35	20.58	23.64	-3.06	-0.76	19.82	-	
5	5720	144	AVG	17.81	17.19	20.52	23.64	-3.12	-0.76	19.76	30.00	-10.24
5	5745	149	AVG	17.72	17.24	20.50	30.00	-9.50	-2.25	18.25	-	-
	5785	157	AVG	17.63	17.09	20.38	30.00	-9.62	-2.25	18.13	-	-
	5825	165	AVG	17.61	17.58	20.61	30.00	-9.39	-2.25	18.36	-	•

Table 7-11. 20MHz n-mode MIMO (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u> </u>				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		a.g [a2]
dtl	5180	36	AVG	17.81	17.90	20.87	23.98	-3.11	-0.22	20.65	23.01	-2.36
width	5200	40	AVG	17.77	17.88	20.84	23.98	-3.14	-0.22	20.62	23.01	-2.39
6	5220	44	AVG	17.99	17.65	20.83	23.98	-3.15	-0.22	20.61	23.01	-2.40
n d	5240	48	AVG	17.77	17.42	20.61	23.98	-3.37	-0.22	20.39	23.01	-2.62
Ва	5260	52	AVG	17.72	17.30	20.53	23.72	-3.19	-0.51	20.02	30.00	-9.98
N	5280	56	AVG	17.98	17.40	20.71	23.72	-3.01	-0.51	20.20	30.00	-9.80
I	5300	60	AVG	17.59	16.92	20.28	23.72	-3.44	-0.51	19.77	30.00	-10.23
Σ	5320	64	AVG	17.92	17.66	20.80	23.72	-2.92	-0.51	20.29	30.00	-9.71
(20	5500	100	AVG	17.94	17.46	20.72	23.64	-2.92	-0.76	19.96	30.00	-10.04
	5600	120	AVG	17.95	17.53	20.76	23.64	-2.88	-0.76	20.00	1	-
<b>4</b> z	5620	124	AVG	17.79	17.41	20.61	23.64	-3.03	-0.76	19.85	1	-
GH	5720	144	AVG	17.79	17.32	20.57	23.64	-3.07	-0.76	19.81	30.00	-10.19
5	5745	149	AVG	17.92	17.44	20.70	30.00	-9.30	-2.25	18.45	-	-
	5785	157	AVG	17.92	17.25	20.61	30.00	-9.39	-2.25	18.36	-	-
	5825	165	AVG	17.82	17.73	20.79	30.00	-9.21	-2.25	18.54	-	-

Table 7-12. 20MHz ac-mode MIMO (UNII) Maximum Conducted Output Power

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	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
2				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
품	5180	36	AVG	17.81	17.79	20.81	23.98	-3.17	-0.22	20.59	23.01	-2.42
Š	5200	40	AVG	17.80	17.77	20.80	23.98	-3.18	-0.22	20.58	23.01	-2.43
andwidth)	5220	44	AVG	17.98	17.74	20.87	23.98	-3.11	-0.22	20.65	23.01	-2.36
Š	5240	48	AVG	17.98	17.75	20.88	23.98	-3.10	-0.22	20.66	23.01	-2.35
Ba	5260	52	AVG	17.67	17.23	20.47	23.72	-3.25	-0.51	19.96	30.00	-10.04
Z F	5280	56	AVG	17.66	17.18	20.44	23.72	-3.28	-0.51	19.93	30.00	-10.07
I	5300	60	AVG	17.59	17.13	20.38	23.72	-3.34	-0.51	19.87	30.00	-10.13
Σ	5320	64	AVG	17.60	17.22	20.42	23.72	-3.30	-0.51	19.91	30.00	-10.09
20	5500	100	AVG	17.87	17.55	20.72	23.64	-2.92	-0.76	19.96	30.00	-10.04
	5600	120	AVG	17.90	17.69	20.81	23.64	-2.83	-0.76	20.05	-	-
Ţ	5620	124	AVG	17.92	17.61	20.78	23.64	-2.86	-0.76	20.02	-	-
古	5720	144	AVG	17.95	17.45	20.72	23.64	-2.92	-0.76	19.96	30.00	-10.04
5	5745	149	AVG	17.86	17.66	20.77	30.00	-9.23	-2.25	18.52	-	-
	5785	157	AVG	17.99	17.39	20.71	30.00	-9.29	-2.25	18.46	-	-
	5825	165	AVG	17.82	17.84	20.84	30.00	-9.16	-2.25	18.59	-	-

Table 7-13. 20MHz ax-mode MIMO (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniit [abiii]	margin [ab]
¥ (=	5190	38	AVG	16.82	16.67	19.76	23.98	-4.22	-0.22	19.54	23.01	-3.47
革	5230	46	AVG	16.99	16.59	19.80	23.98	-4.18	-0.22	19.58	23.01	-3.43
$\circ$	5270	54	AVG	17.03	16.51	19.79	23.98	-4.19	-0.51	19.28	30.00	-10.72
	5310	62	AVG	16.95	16.40	19.69	23.98	-4.29	-0.51	19.18	30.00	-10.82
후	5510	102	AVG	16.95	16.53	19.76	23.98	-4.22	-0.76	19.00	30.00	-11.00
1 to 10	5590	118	AVG	17.13	16.41	19.80	23.98	-4.18	-0.76	19.04	-	-
5G B	5630	126	AVG	16.97	16.42	19.71	23.98	-4.27	-0.76	18.95	-	-
	5710	142	AVG	16.97	16.35	19.68	23.98	-4.30	-0.76	18.92	30.00	-11.08
	5755	151	AVG	16.94	16.48	19.73	30.00	-10.27	-2.25	17.48	-	-
	5795	159	AVG	16.98	16.26	19.65	30.00	-10.35	-2.25	17.40	-	-

Table 7-14. 40MHz n-mode MIMO (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	nnel Detector	Cond	ucted Power [	dBm]	Conducted Power Limit		Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
HZ (c	5190	38	AVG	16.72	16.46	19.60	23.98	-4.38	-0.22	19.38	23.01	-3.63
5 =	5230	46	AVG	16.98	16.59	19.80	23.98	-4.18	-0.22	19.58	23.01	-3.43
I	5270	54	AVG	16.92	16.32	19.64	23.98	-4.34	-0.51	19.13	30.00	-10.87
<u>4</u> <u>₹</u>	5310	62	AVG	16.89	16.24	19.59	23.98	-4.39	-0.51	19.08	30.00	-10.92
후	5510	102	AVG	16.89	16.31	19.62	23.98	-4.36	-0.76	18.86	30.00	-11.14
~	5590	118	AVG	16.71	16.18	19.46	23.98	-4.52	-0.76	18.70	1	-
5G B	5630	126	AVG	16.81	16.30	19.57	23.98	-4.41	-0.76	18.81	1	-
	5710	142	AVG	16.78	16.12	19.47	23.98	-4.51	-0.76	18.71	30.00	-11.29
	5755	151	AVG	16.76	16.11	19.46	30.00	-10.54	-2.25	17.21	-	-
	5795	159	AVG	16.93	16.11	19.55	30.00	-10.45	-2.25	17.30	-	-

Table 7-15. 40MHz ac-mode MIMO (UNII) Maximum Conducted Output Power

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	Freq [MHz]	Channel	Channel Detector	Cond	ucted Power	[dBm]	Conducted Power Limit	Conducted Power	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniit [abiii]	margin [ab]
ξ (c	5190	38	AVG	16.89	16.83	19.87	23.98	-4.11	-0.22	19.65	23.01	-3.36
OMF	5230	46	AVG	16.83	16.23	19.55	23.98	-4.43	-0.22	19.33	23.01	-3.68
호호	5270	54	AVG	16.84	16.13	19.51	23.98	-4.47	-0.51	19.00	30.00	-11.00
4 ₹	5310	62	AVG	16.72	16.23	19.49	23.98	-4.49	-0.51	18.98	30.00	-11.02
1 P	5510	102	AVG	16.99	16.65	19.83	23.98	-4.15	-0.76	19.07	30.00	-10.93
一一一	5590	118	AVG	16.73	16.32	19.54	23.98	-4.44	-0.76	18.78	-	-
5G B	5630	126	AVG	16.67	16.24	19.47	23.98	-4.51	-0.76	18.71	-	-
	5710	142	AVG	16.69	16.14	19.43	23.98	-4.55	-0.76	18.67	30.00	-11.33
	5755	151	AVG	16.94	16.47	19.72	30.00	-10.28	-2.25	17.47	-	-
	5795	159	AVG	17.02	16.44	19.75	30.00	-10.25	-2.25	17.50	-	-

Table 7-16. 40MHz ax-mode MIMO (UNII) Maximum Conducted Output Power

, , ,	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit		Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
를 œ	5210 42			ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]			3[]
(80MF)	5210	42	AVG	15.83	15.17	18.52	23.98	-5.46	-0.22	18.30	23.01	-4.71
∞ ≰	5290	58	AVG	15.75	15.06	18.43	23.98	-5.55	-0.51	17.92	30.00	-12.08
äng	5530	106	AVG	15.89	15.43	18.68	23.98	-5.30	-0.76	17.92	30.00	-12.08
5G B	5610	122	AVG	15.98	15.56	18.79	23.98	-5.19	-0.76	18.03	-	-
	5690	138	AVG	15.92	15.03	18.51	23.98	-5.47	-0.76	17.75	30.00	-12.25
	5775	155	AVG	15.99	15.26	18.65	30.00	-11.35	-2.25	16.40	-	-

Table 7-17. 80MHz ac-mode MIMO (UNII) Maximum Conducted Output Power

N	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit		Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
F (q			ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Lillit [dbili]	margin [ab]	
OMH; idth)	5210	42	AVG	15.60	14.99	18.32	23.98	-5.66	-0.22	18.10	23.01	-4.91
®) ×	5290	58	AVG	15.99	15.18	18.61	23.98	-5.37	-0.51	18.10	30.00	-11.90
a H	5530	106	AVG	16.22	15.18	18.74	23.98	-5.24	-0.76	17.98	30.00	-12.02
5G B	5610	122	AVG	15.83	15.22	18.55	23.98	-5.43	-0.76	17.79	-	-
	5690	138	AVG	15.95	15.25	18.62	23.98	-5.36	-0.76	17.86	30.00	-12.14
	5775	155	AVG	15.80	14.93	18.40	30.00	-11.60	-2.25	16.15	-	-

Table 7-18. 80MHz ax-mode MIMO (UNII) Maximum Conducted Output Power

tz MHz ridth)	_	Freq [MHz]	Channel	Detector	Cond	ucted Power	[dBm]	Conducted Power Limit		Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
I I I	}				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
5( (16) Band	a a	5250	50	AVG	14.88	14.81	17.86	23.98	-6.12	-0.22	17.64	23.01	-5.37
		5570	114	AVG	14.72	14.98	17.86	30.00	-12.14	-0.76	17.10	-	-

Table 7-19. 160MHz ac-mode MIMO (UNII) Maximum Conducted Output Power

tz MHz ridth)	Freq [MHz]	Channel	Detector	Cond	lucted Power	[dBm]	Conducted Power Limit		Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
OM SE				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[]		
5 (16 an	5250	50	AVG	14.99	14.03	17.55	23.98	-6.43	-0.22	17.33	23.01	-5.68
Ba (	5570	114	AVG	14.77	13.60	17.23	30.00	-12.77	-0.76	16.47	-	-

Table 7-20. 160MHz ax-mode MIMO (UNII) Maximum Conducted Output Power

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#### 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 802.11n (20MHz BW) mode, the average conducted output power was measured to be 17.59 dBm for Antenna-1 and 17.53 dBm for Antenna-2.

$$(17.59 \text{ dBm} + 17.53 \text{ dBm}) = (57.41 \text{ mW} + 56.62 \text{ mW}) = 114.04 \text{ mW} = 20.57 \text{ dBm}$$

## Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.57 dBm with directional gain of -0.22 dBi.

$$20.57 \text{ dBm} + -0.22 \text{ dBi} = 20.35 \text{ dBm}$$

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# 7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax §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.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F

#### **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)

assembly of contents thereof, please contact INFO@PCTEST.COM

- 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**

None

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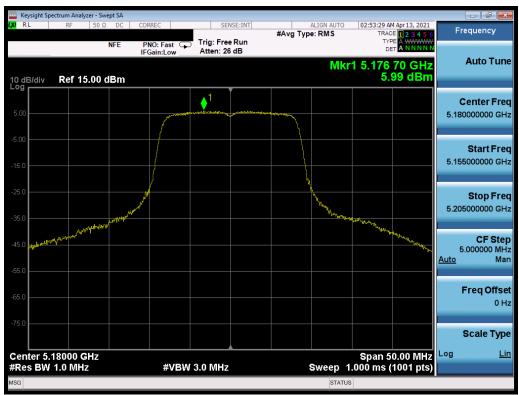
SISO Antenna 1 – <u>Power Spectral Density Measurement</u>

ı —	Power	Speci	rai Dens	ity weasur	ement		
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	а	6	5.99	11.0	-5.01
	5200	40	а	6	5.99	11.0	-5.01
	5240	48	а	6	6.49	11.0	-4.51
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.27	11.0	-4.73
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.82	11.0	-4.18
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	7.62	11.0	-3.38
_	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	6.27	11.0	-4.73
Band	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	6.31	11.0	-4.69
Ba	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.42	11.0	-3.58
	5190	38	n (40MHz)	13.5/15 (MCS0)	3.47	11.0	-7.53
	5230	46	n (40MHz)	13.5/15 (MCS0)	3.56	11.0	-7.44
	5190	38	ax (40MHz)	13.5/15 (MCS0)	2.57	11.0	-8.43
	5230	46	ax (40MHz)	13.5/15 (MCS0)	3.61	11.0	-7.39
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.22	11.0	-12.22
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-0.24	11.0	-11.24
D ∢	5250	50	ac (160MHz)	58.5/65 (MCS0)	-4.60	11.0	-15.60
Band 1/2A	5250	50	ax (160MHz)	58.5/65 (MCS0)	-5.46	11.0	-16.46
	5260	52	a (1001/11/2)	6	7.02	11.0	-3.98
	5280	56		6	7.32	11.0	-3.68
	5320	64	a	6	7.10	11.0	-3.90
		52	a (20MUz)			11.0	
	5260		n (20MHz)	6.5/7.2 (MCS0)	7.72 7.32		-3.28
	5280	56	n (20MHz)	6.5/7.2 (MCS0)		11.0	-3.68
a	5320	64	n (20MHz)	6.5/7.2 (MCS0)	7.28	11.0	-3.72
75	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	7.20	11.0	-3.80
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	7.01	11.0	-3.99
ш	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	8.05	11.0	-2.95
	5270	54	n (40MHz)	13.5/15 (MCS0)	3.11	11.0	-7.89
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.68	11.0	-8.32
	5270	54	ax (40MHz)	13.5/15 (MCS0)	3.47	11.0	-7.53
	5310	62	ax (40MHz)	13.5/15 (MCS0)	3.88	11.0	-7.12
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.03	11.0	-12.03
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.23	11.0	-12.23
	5500	100	а	6	7.07	11.0	-3.93
	5600	120	а	6	6.31	11.0	-4.69
	5720	144	а	6	6.70	11.0	-4.30
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.93	11.0	-4.07
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.40	11.0	-4.60
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.67	11.0	-4.33
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	7.18	11.0	-3.82
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	6.51	11.0	-4.49
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	6.73	11.0	-4.27
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.26	11.0	-8.74
ည္က	5590	118	n (40MHz)	13.5/15 (MCS0)	2.54	11.0	-8.46
Band 2C	5710	142	n (40MHz)	13.5/15 (MCS0)	2.42	11.0	-8.58
Bal	5510	102	ax (40MHz)	13.5/15 (MCS0)	3.28	11.0	-7.72
	5590	118	ax (40MHz)	13.5/15 (MCS0)	3.19	11.0	-7.81
	5710	142	ax (40MHz)	13.5/15 (MCS0)	2.95	11.0	-8.05
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-2.79	11.0	-13.79
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.10	11.0	-13.10
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-3.28	11.0	-14.28
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-0.77	11.0	-11.77
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-1.33	11.0	-12.33
				` ,	-1.83	11.0	-12.83
	5690	1,58	ax (8()MHz)	1 29.3/32.5 HVICSOL			
	5690 5570	138 114	ax (80MHz) ac (160MHz)	29.3/32.5 (MCS0) 58.5/65 (MCS0)	-4.60	11.0	-15.60

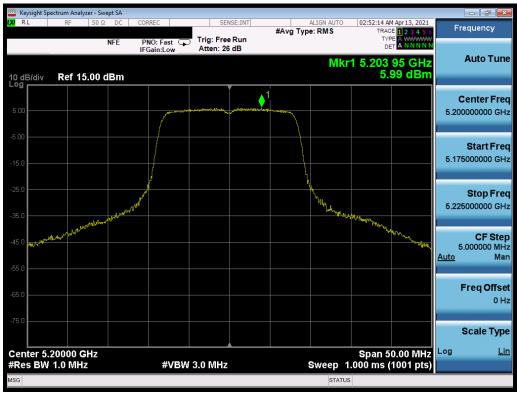
Table 7-21. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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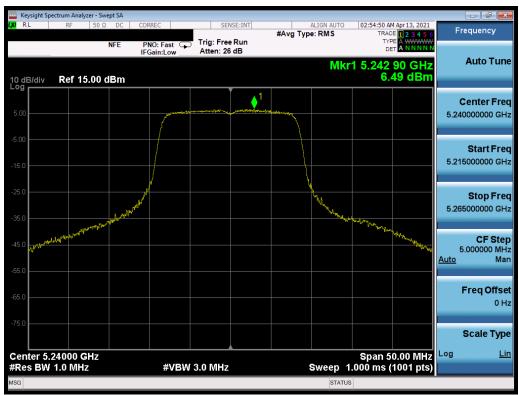
Plot 7-211. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 36)



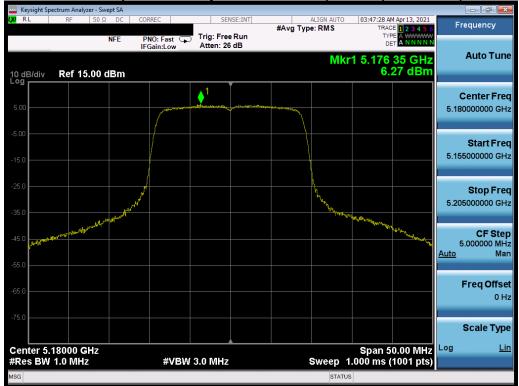
Plot 7-212. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 425 of 200
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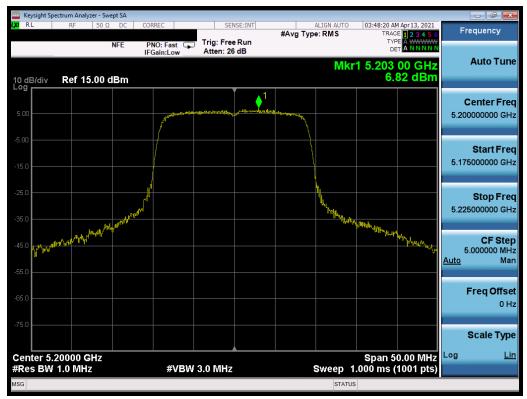
Plot 7-213. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) - Ch. 48)



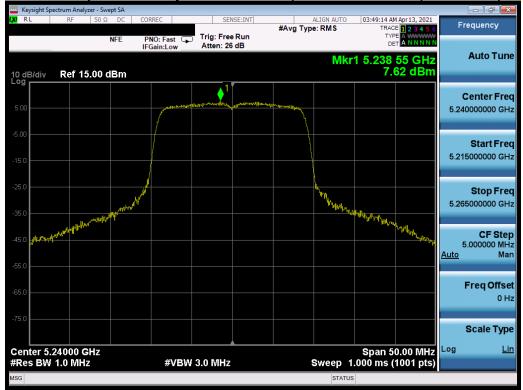
Plot 7-214. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Done 126 of 200
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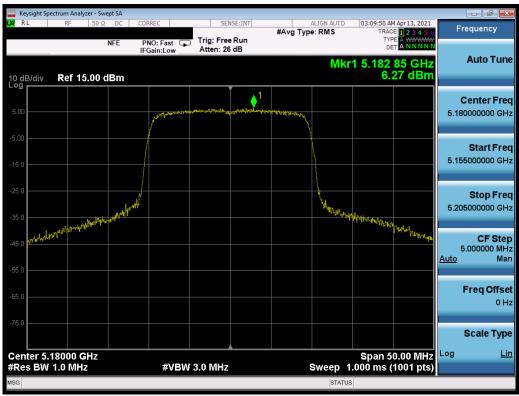
Plot 7-215. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



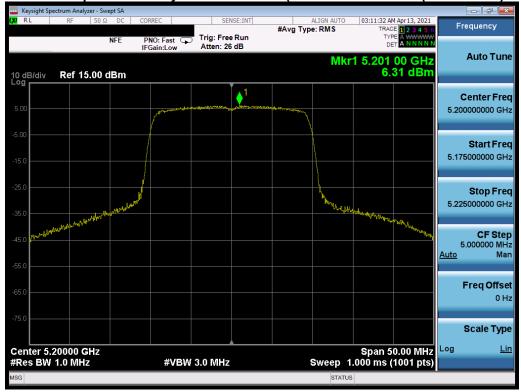
Plot 7-216. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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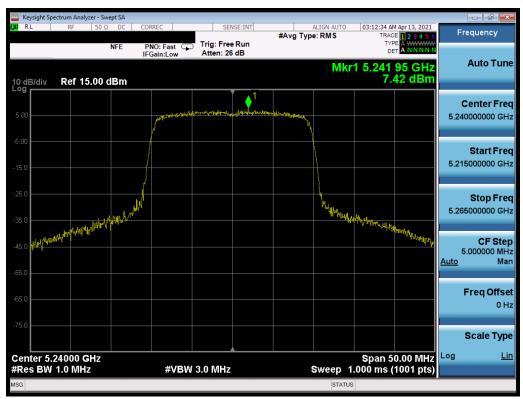
Plot 7-217. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



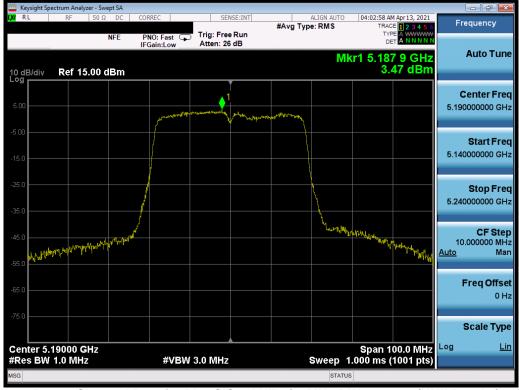
Plot 7-218. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 420 of 200
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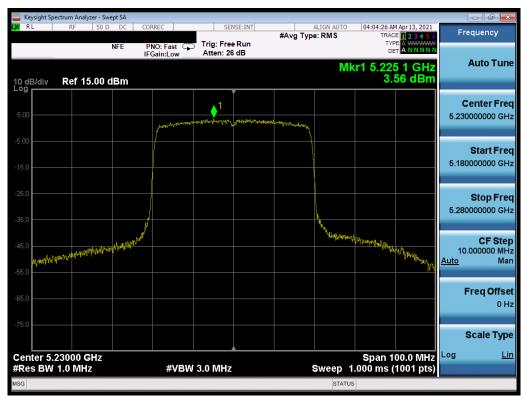
Plot 7-219. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



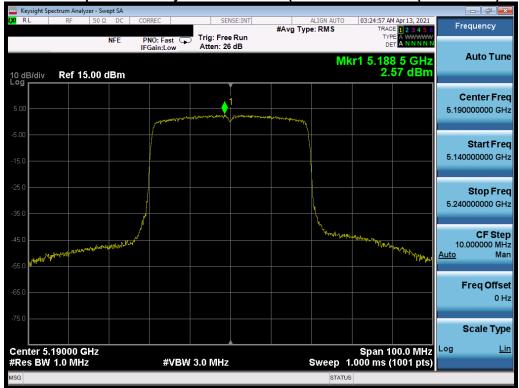
Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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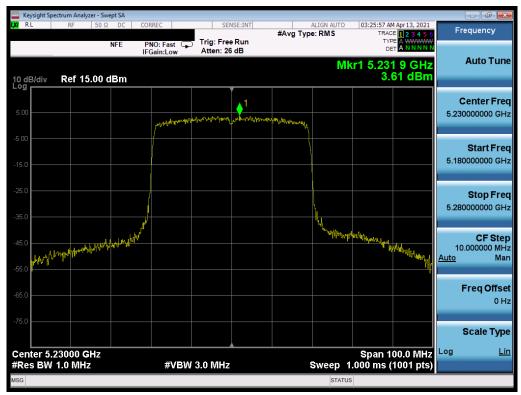
Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



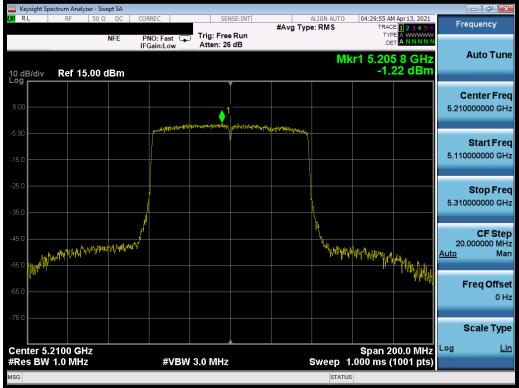
Plot 7-222. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Technical Manager
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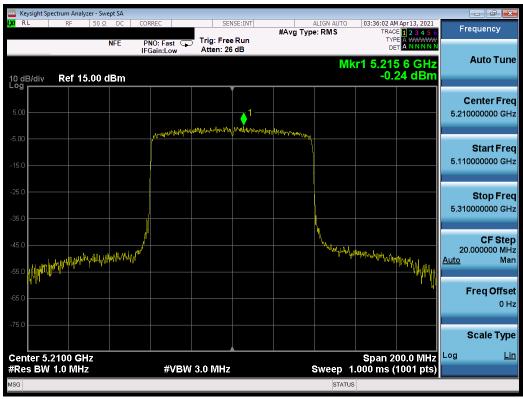
Plot 7-223. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



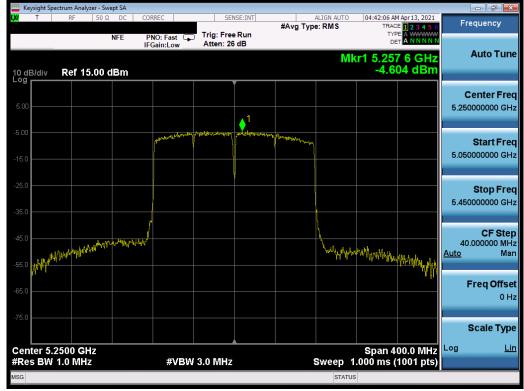
Plot 7-224. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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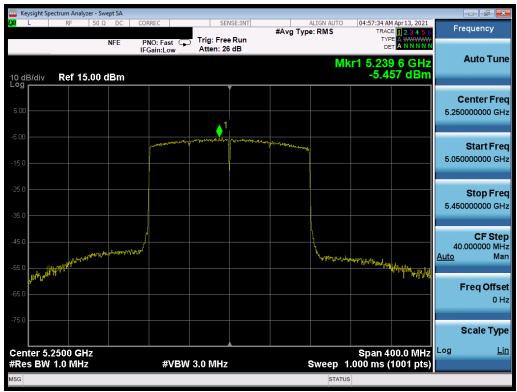
Plot 7-225. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



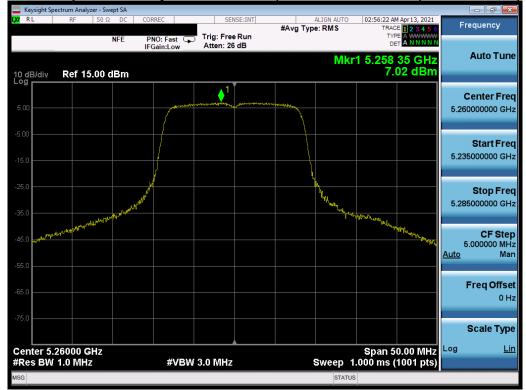
Plot 7-226. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Technical Manager
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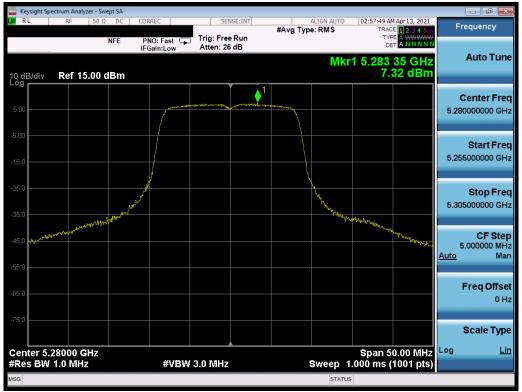
Plot 7-227. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 1/2A) - Ch. 50)



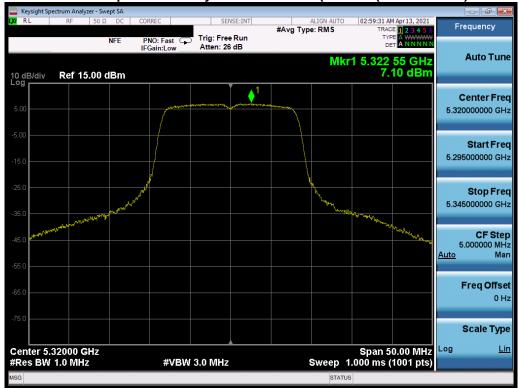
Plot 7-228. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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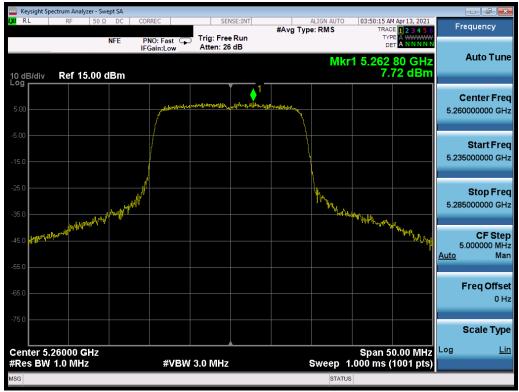
Plot 7-229. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 56)



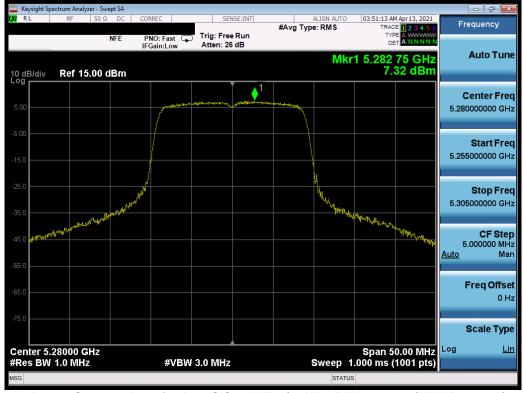
Plot 7-230. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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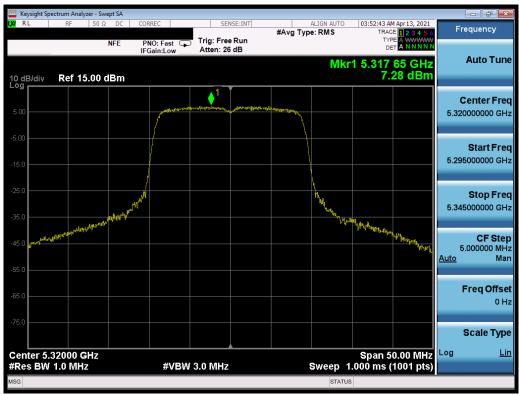
Plot 7-231. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



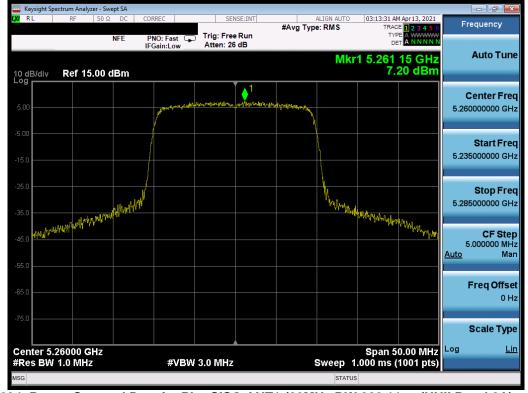
Plot 7-232. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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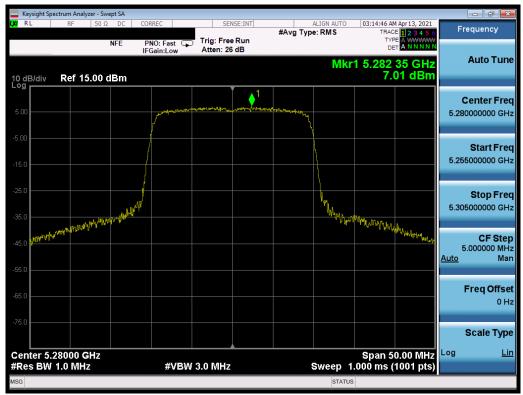
Plot 7-233. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



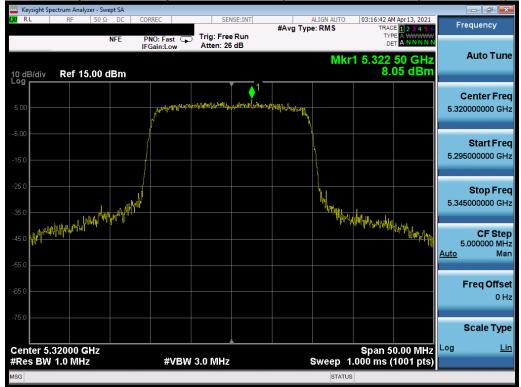
Plot 7-234. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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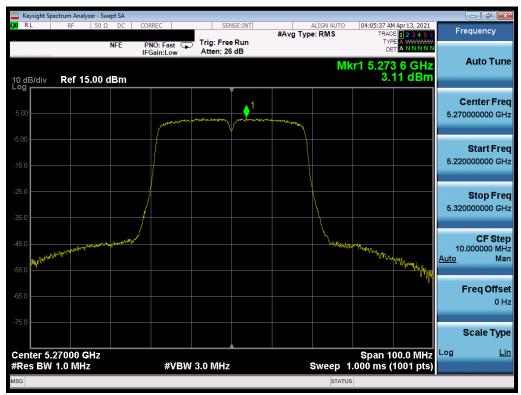
Plot 7-235. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



Plot 7-236. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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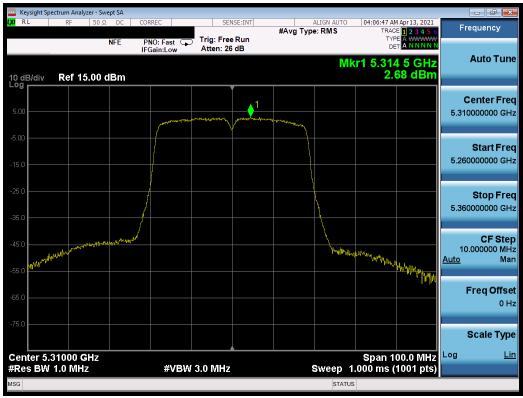




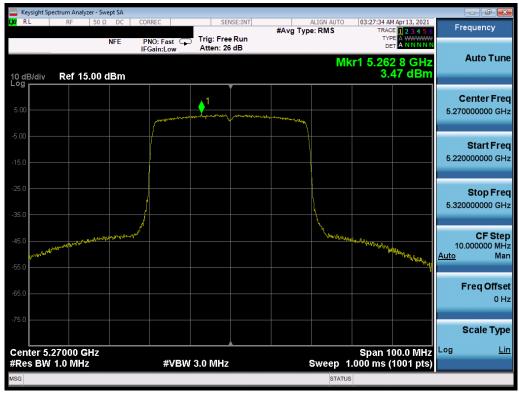
Plot 7-237. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-238. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)



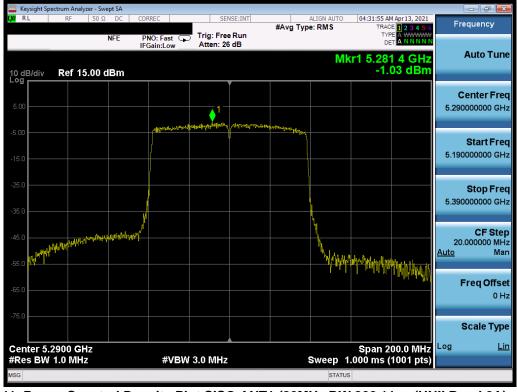
Plot 7-239. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-240. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

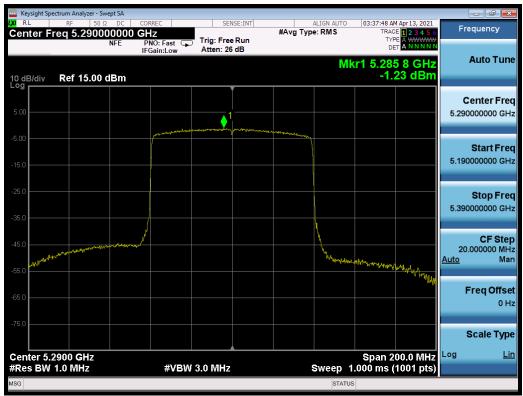


Plot 7-241. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)

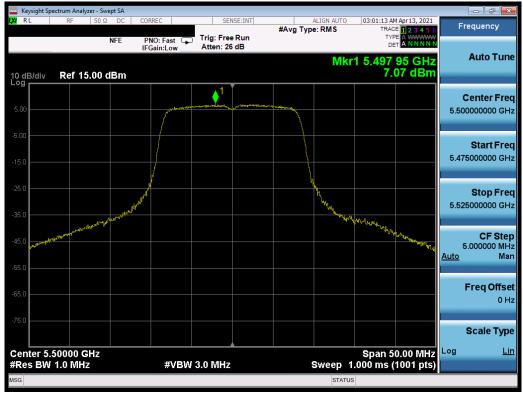
FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 450 of 200
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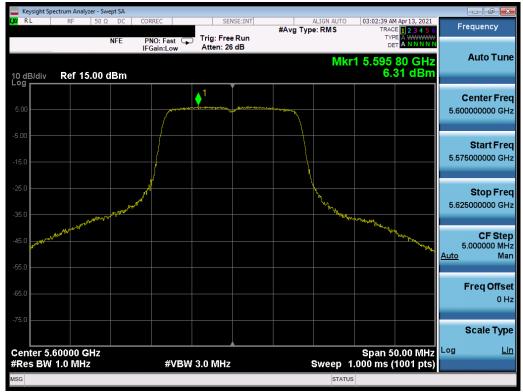
Plot 7-242. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A )- Ch. 58)



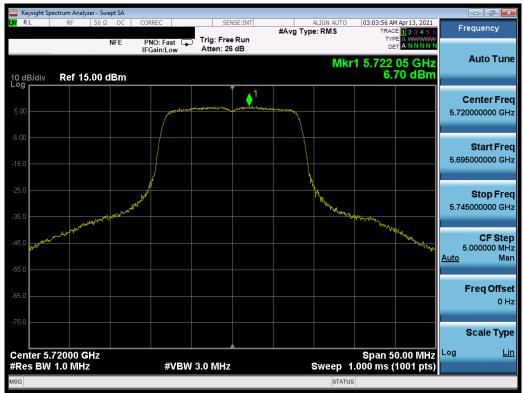
Plot 7-243. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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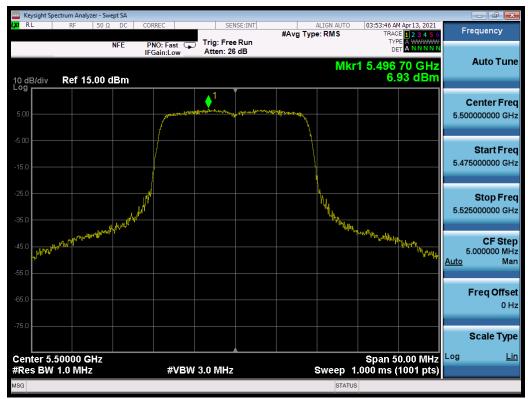
Plot 7-244. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 120)



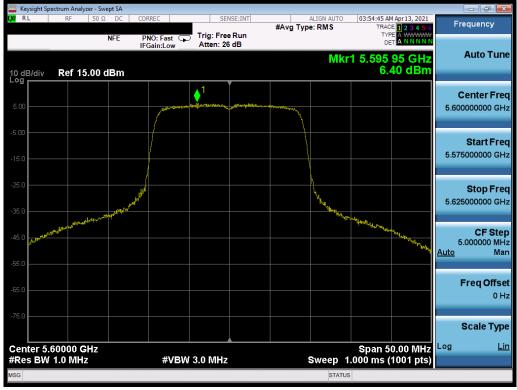
Plot 7-245. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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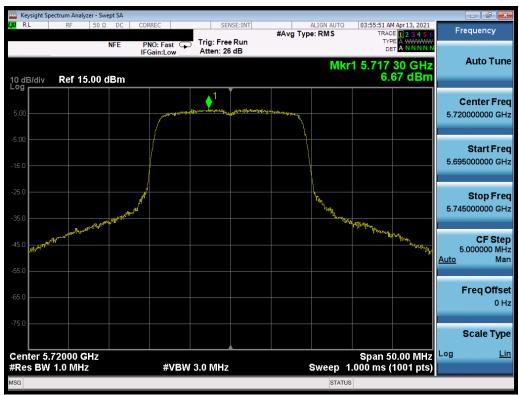
Plot 7-246. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)



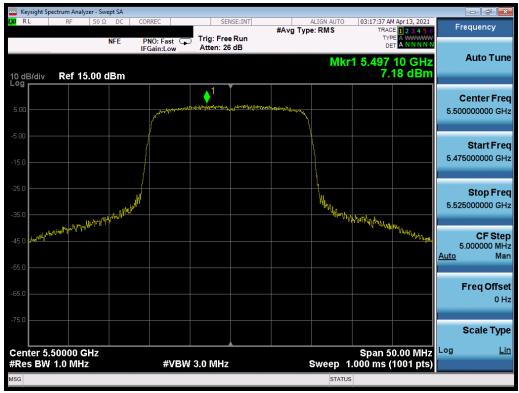
Plot 7-247. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 452 of 200
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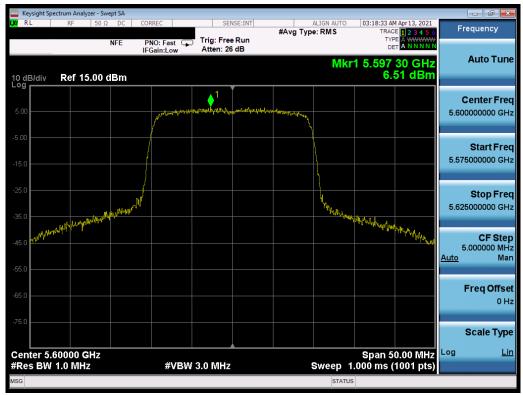
Plot 7-248. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)



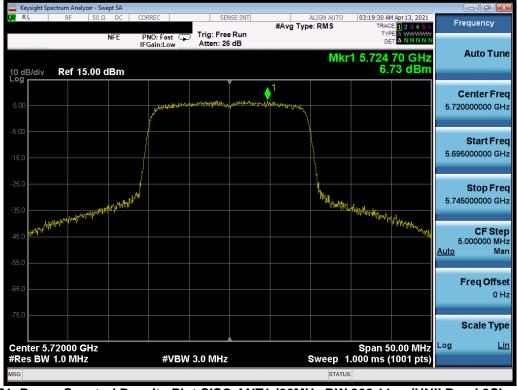
Plot 7-249. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-250. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



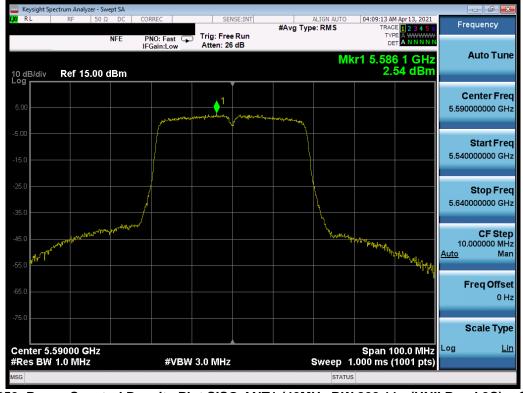
Plot 7-251. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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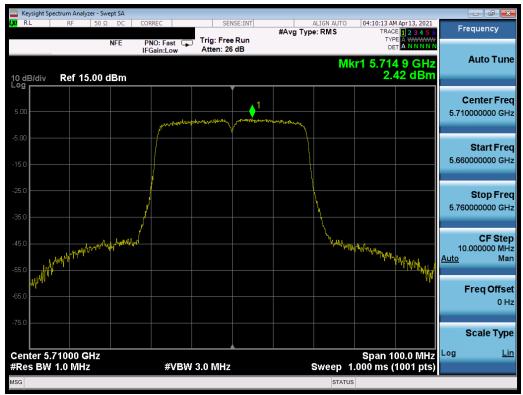
Plot 7-252. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)



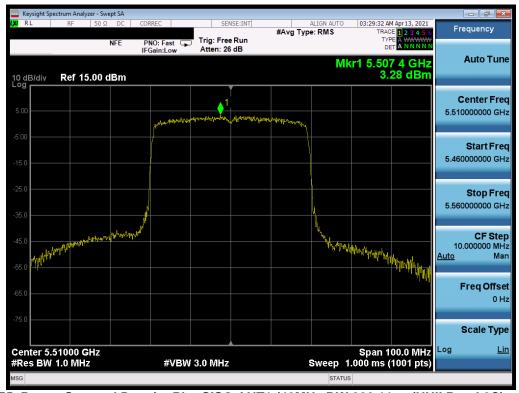
Plot 7-253. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 450 of 200
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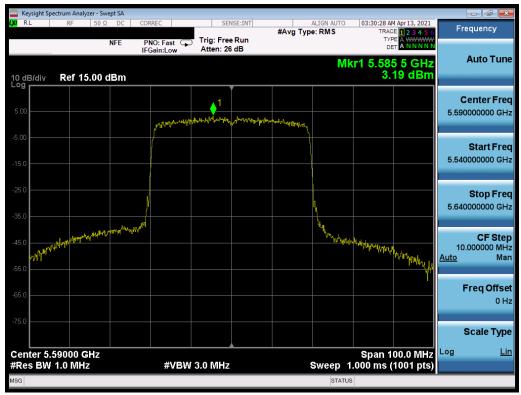
Plot 7-254. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)



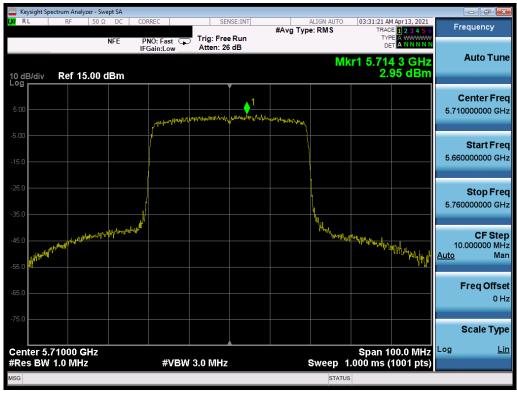
Plot 7-255. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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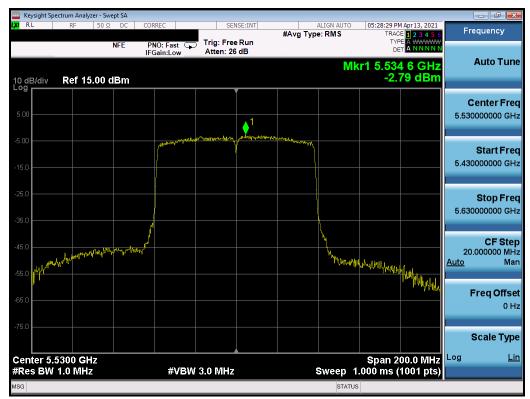
Plot 7-256. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



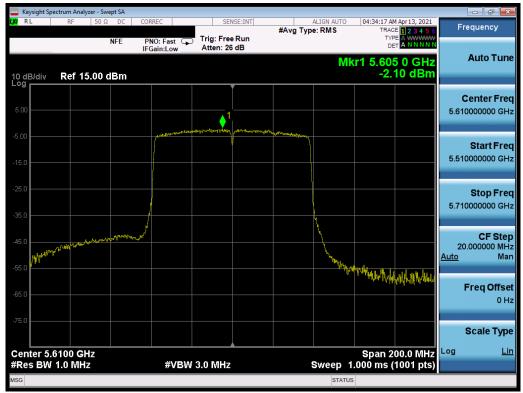
Plot 7-257. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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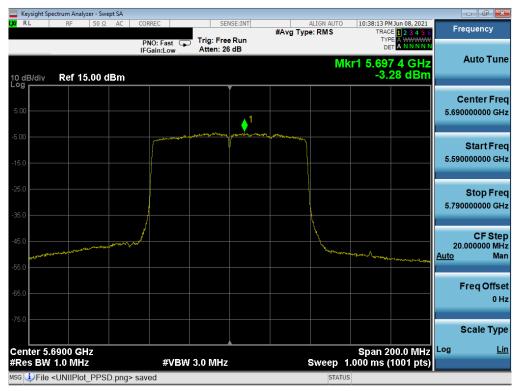
Plot 7-258. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



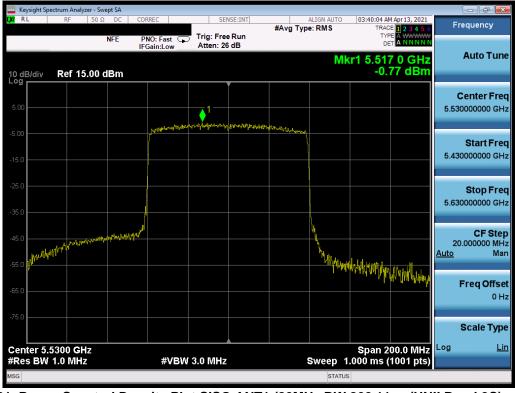
Plot 7-259. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-260. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

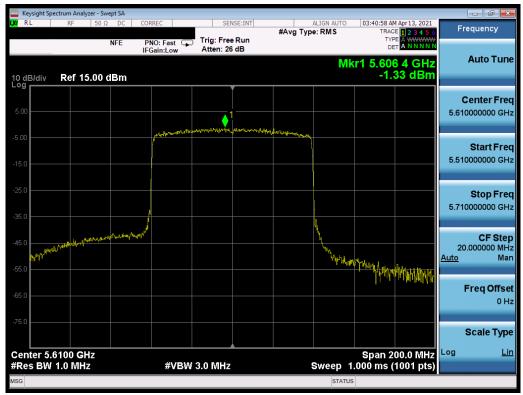


Plot 7-261. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)

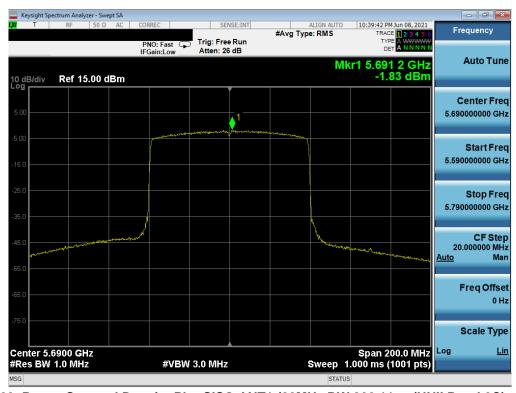
FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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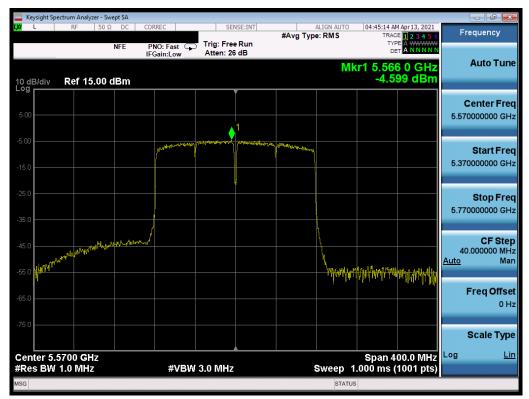
Plot 7-262. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



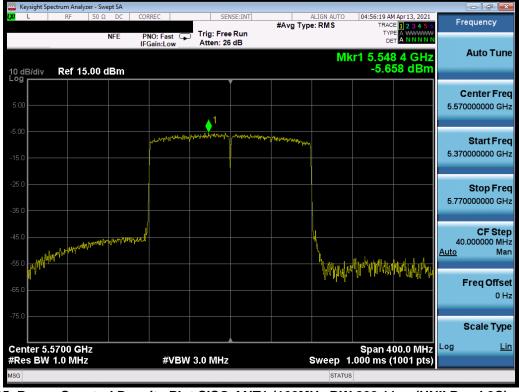
Plot 7-263. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138

FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-264. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)



Plot 7-265. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)

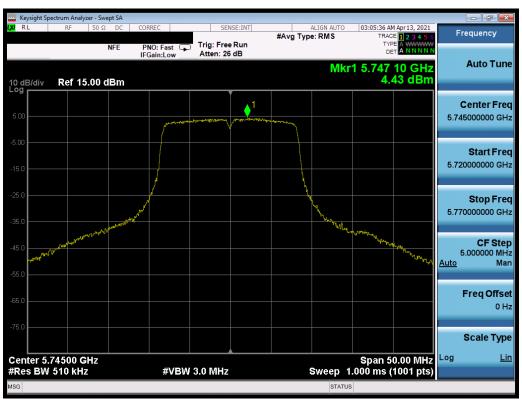
FCC ID: A3LSMF926B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	NG	Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	а	6	4.43	30.0	-25.57
	5785	157	а	6	4.33	30.0	-25.67
	5825	165	а	6	3.84	30.0	-26.16
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	4.30	30.0	-25.70
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	4.41	30.0	-25.59
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.74	30.0	-26.26
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.75	30.0	-25.25
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	3.93	30.0	-26.07
Ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	3.80	30.0	-26.20
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.27	30.0	-29.73
	5795	159	n (40MHz)	13.5/15 (MCS0)	0.02	30.0	-29.98
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.89	30.0	-29.11
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.80	30.0	-29.20
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-3.70	30.0	-33.70
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.78	30.0	-30.78

Table 7-22. Band 3 Conducted Power Spectral Density Measurements SISO ANT1



Plot 7-266. Power Spectral Density Plot (802.11a (UNII Band 3) - Ch. 149)

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