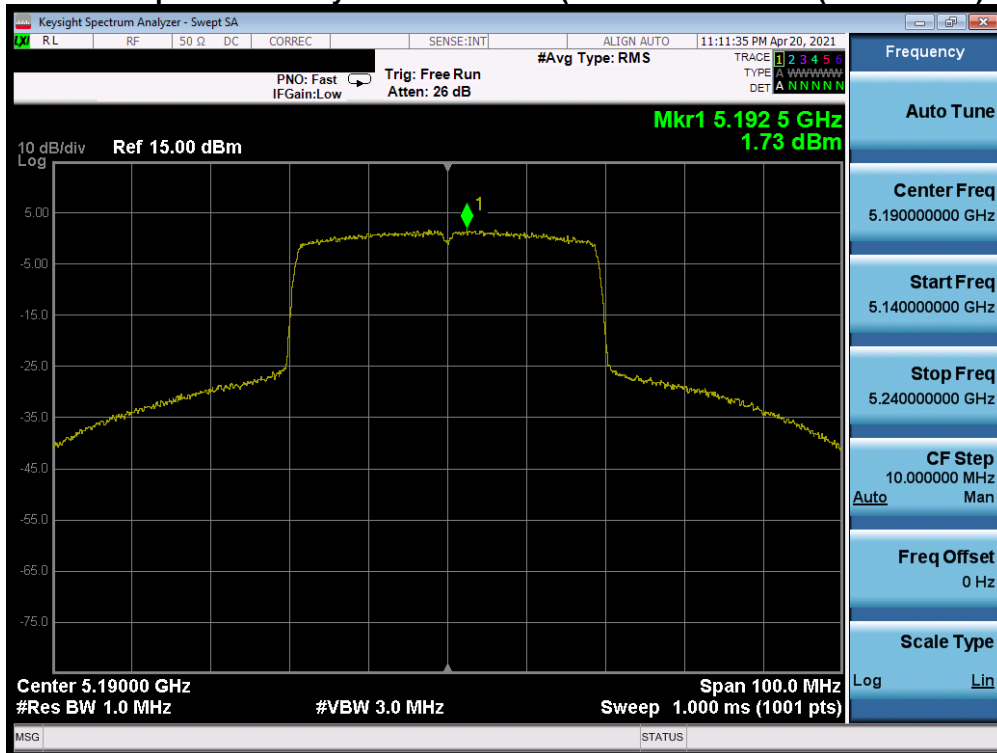
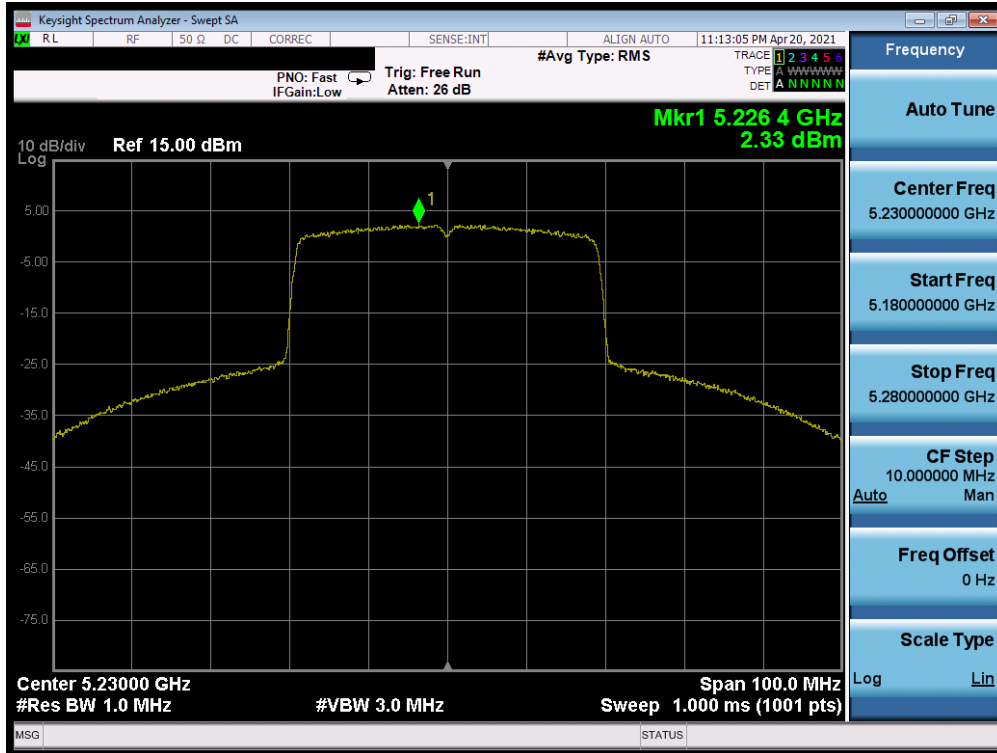


Plot 7-473. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

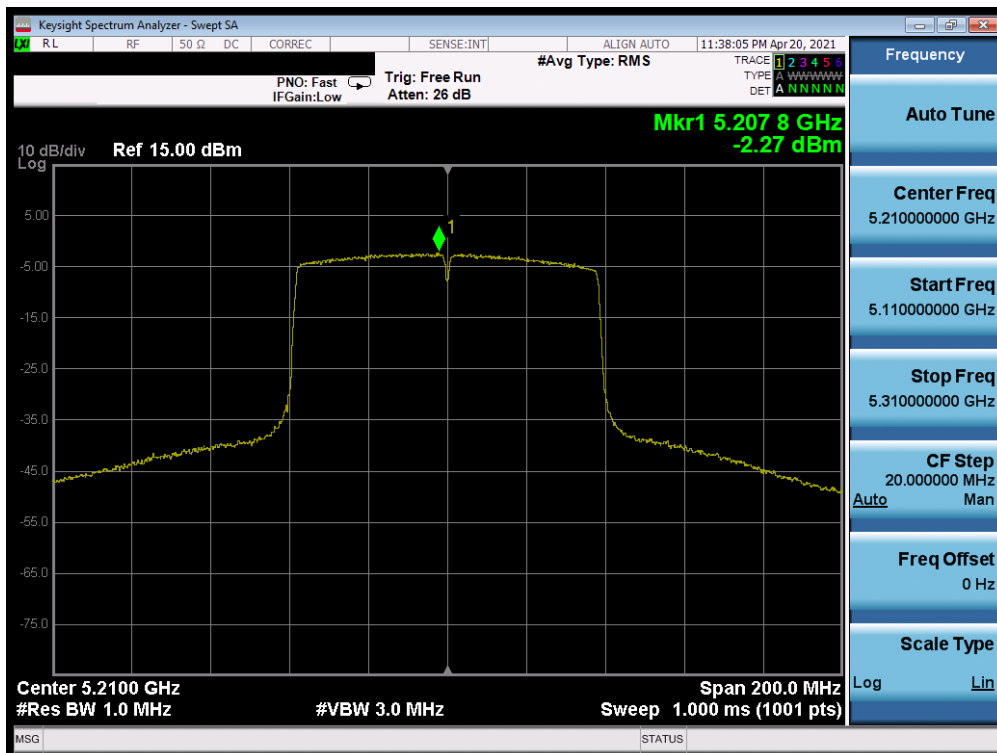


Plot 7-474. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 281 of 508

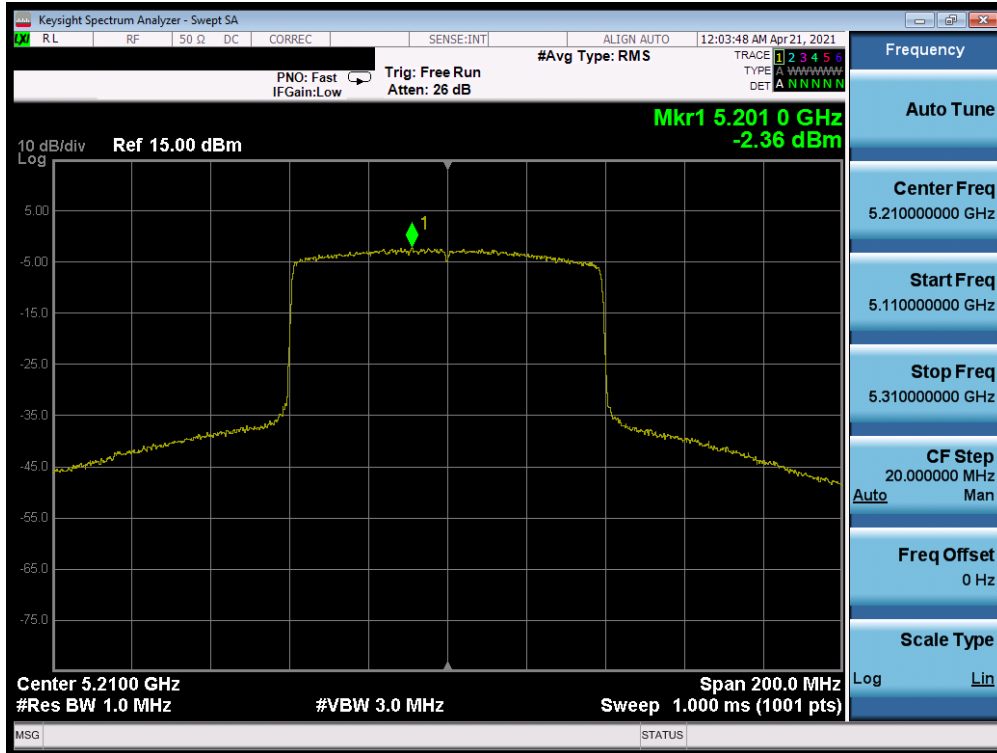


Plot 7-475. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

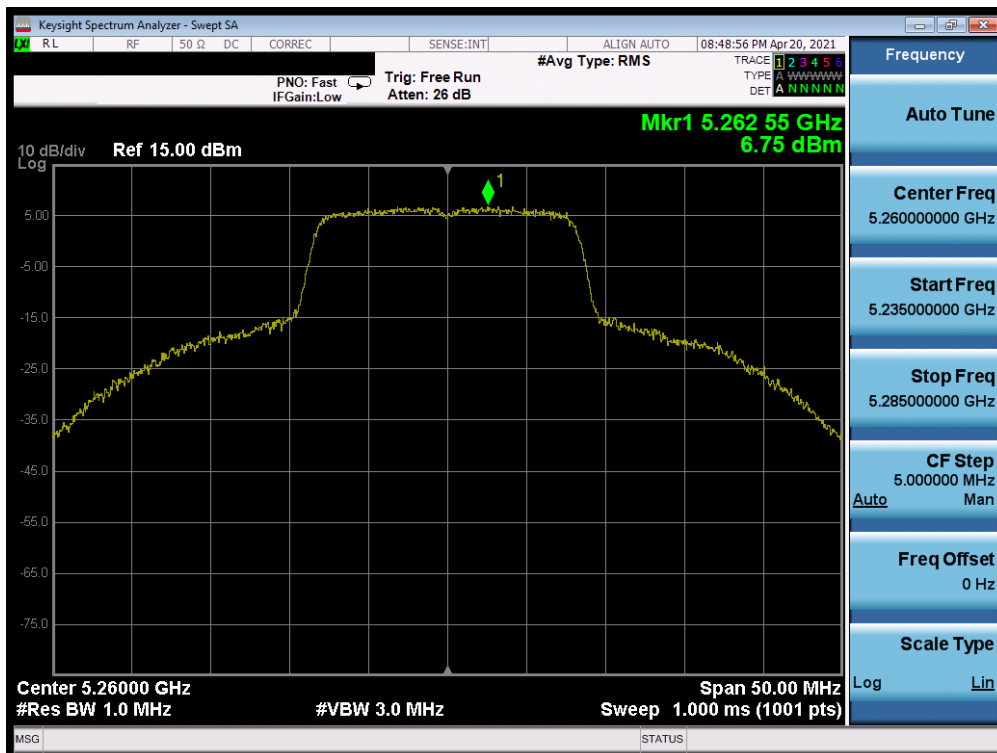


Plot 7-476. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 282 of 508

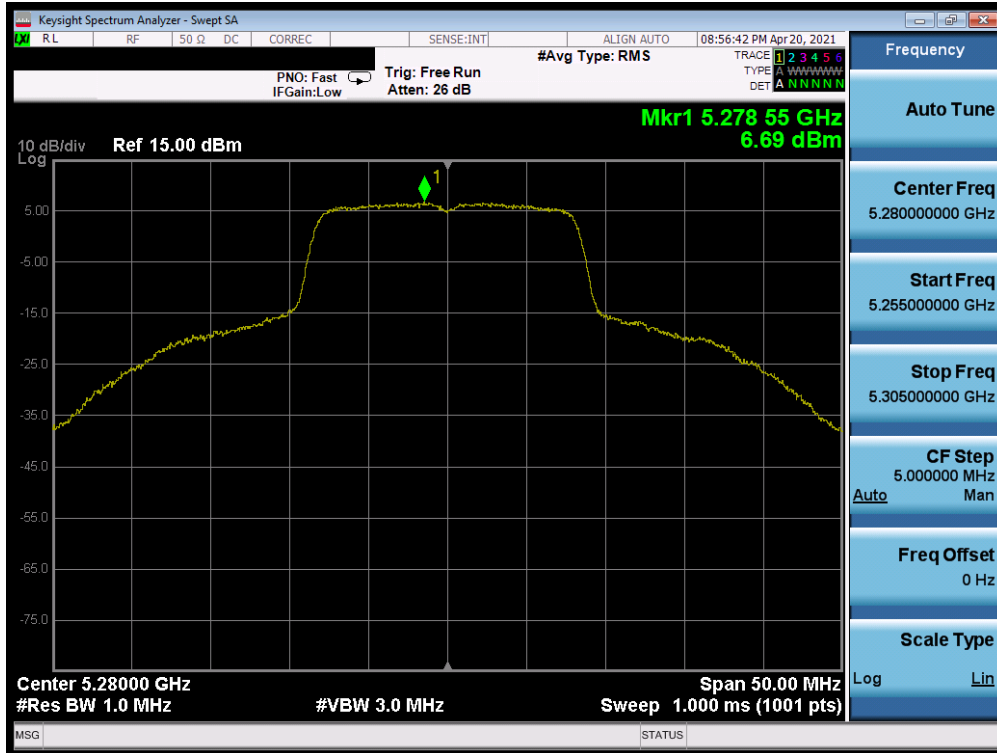


Plot 7-477. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

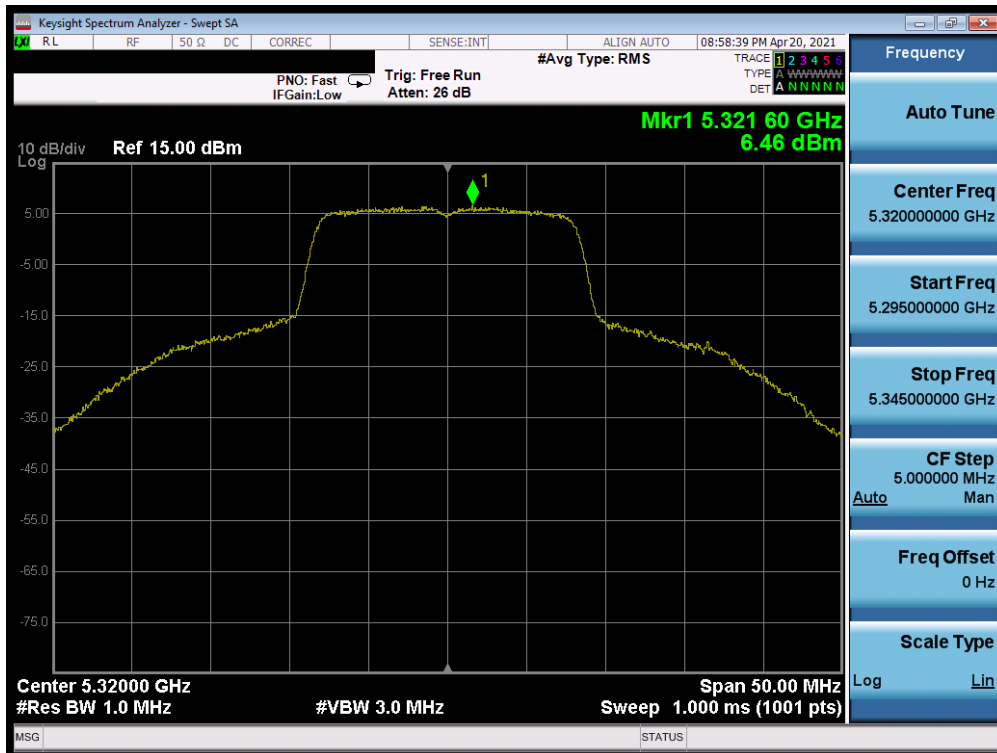


Plot 7-478. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 283 of 508

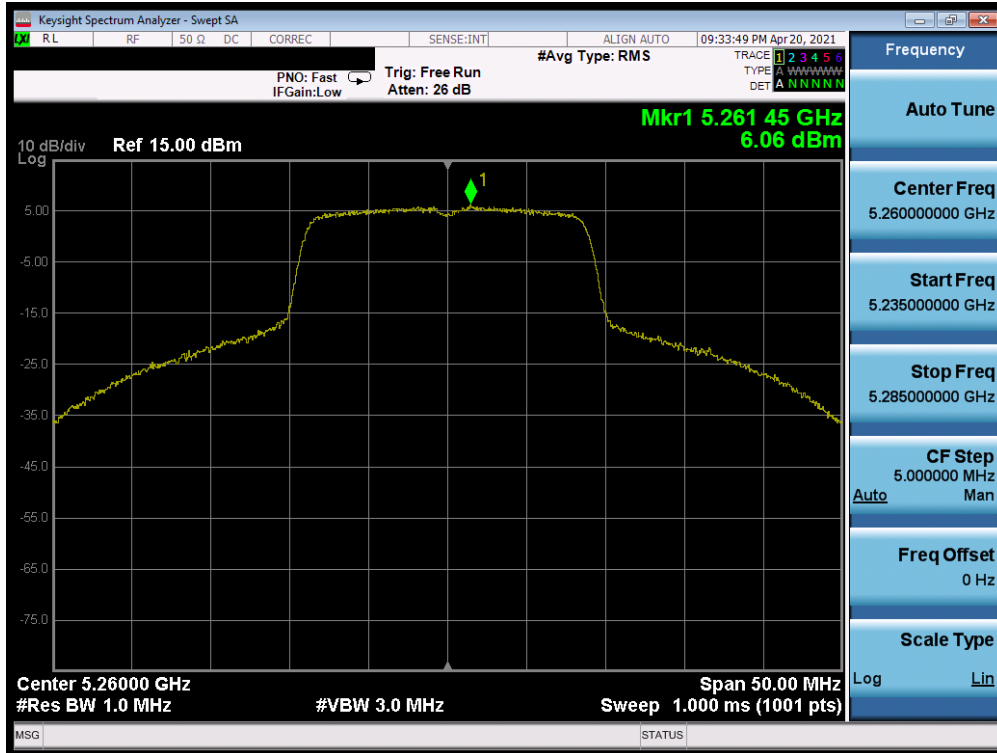


Plot 7-479. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) – Ch. 56)

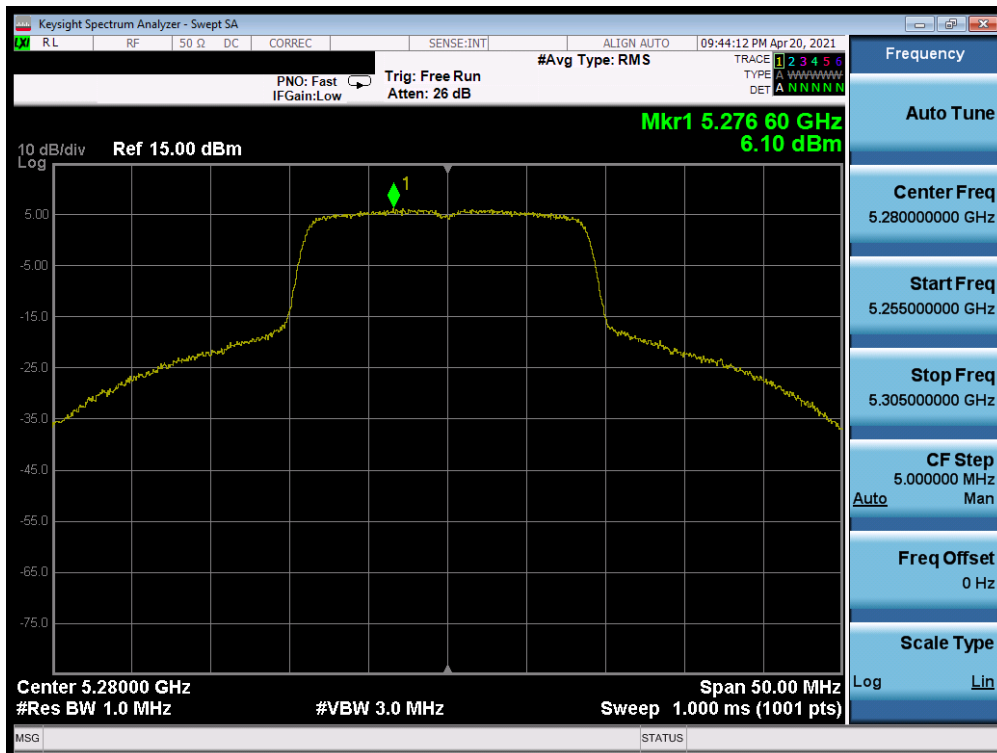


Plot 7-480. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 284 of 508

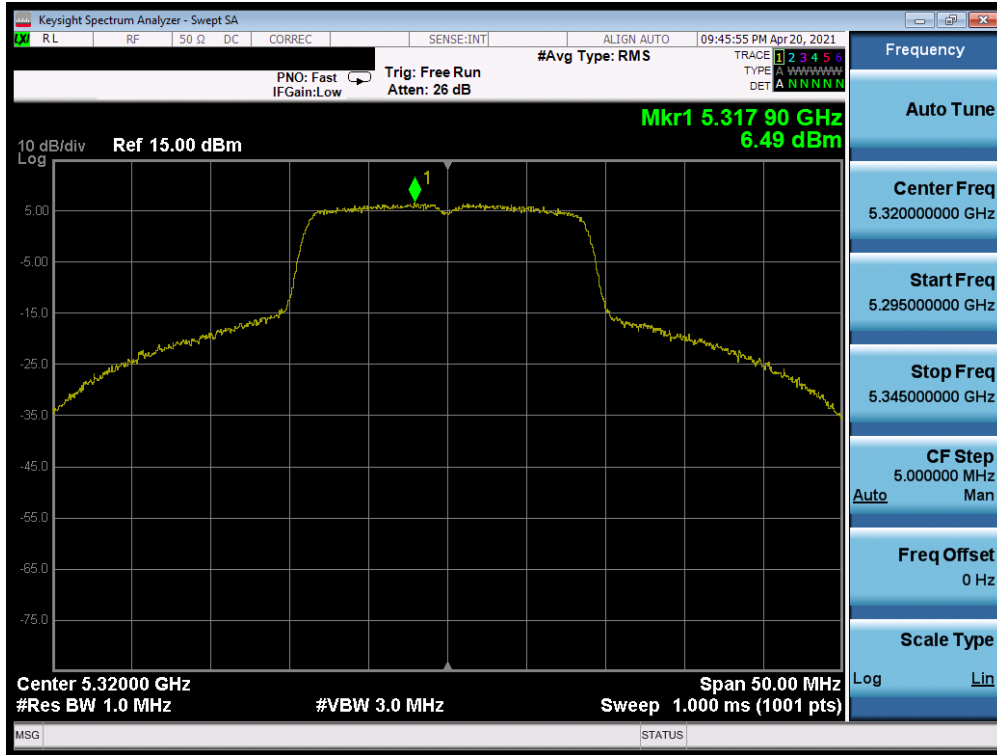


Plot 7-481. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

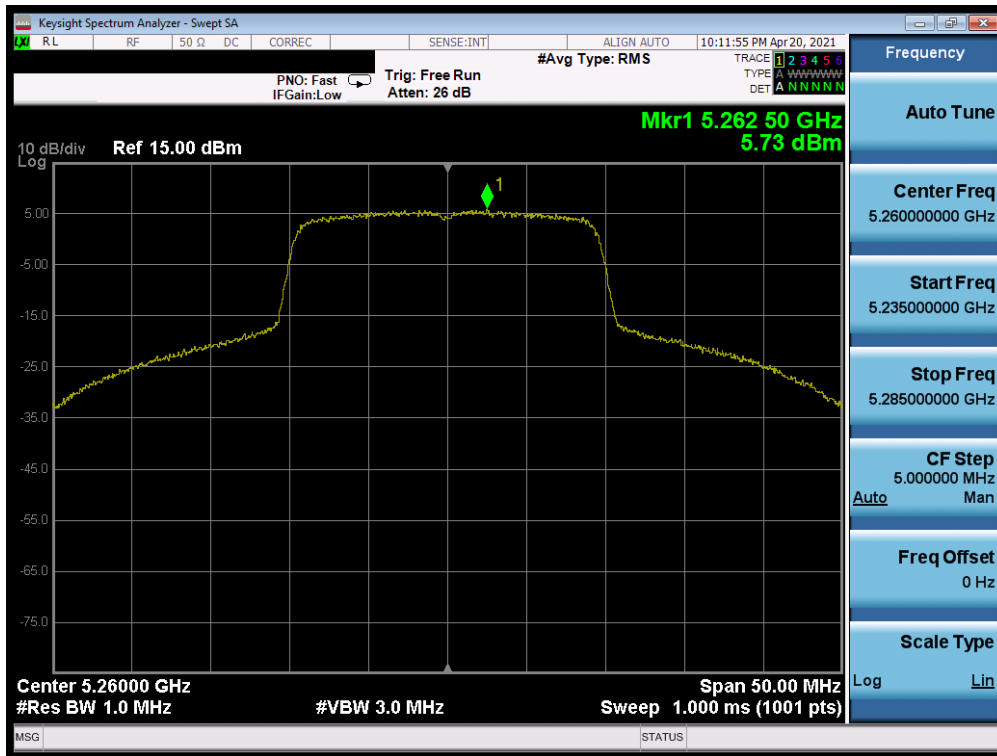


Plot 7-482. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 285 of 508

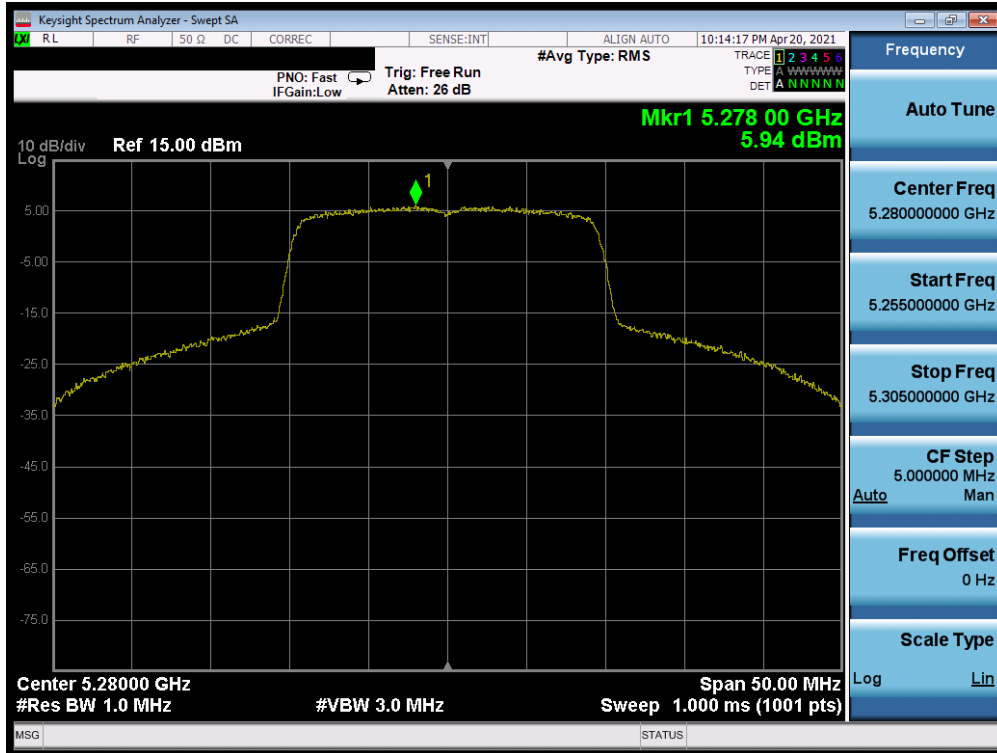


Plot 7-483. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

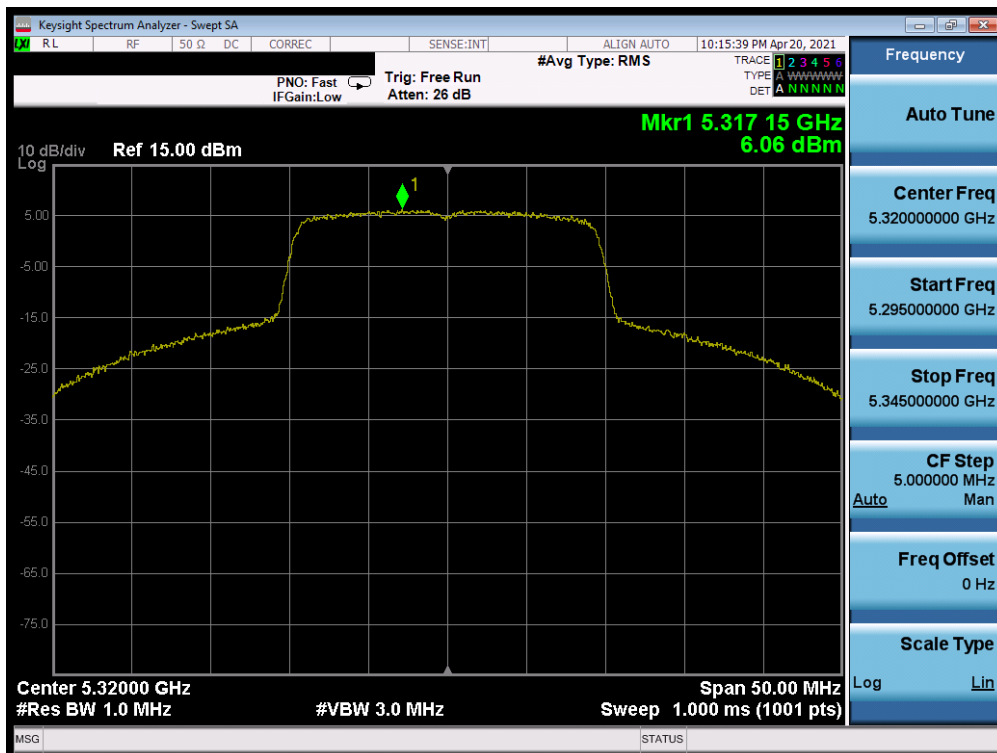


Plot 7-484. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 286 of 508

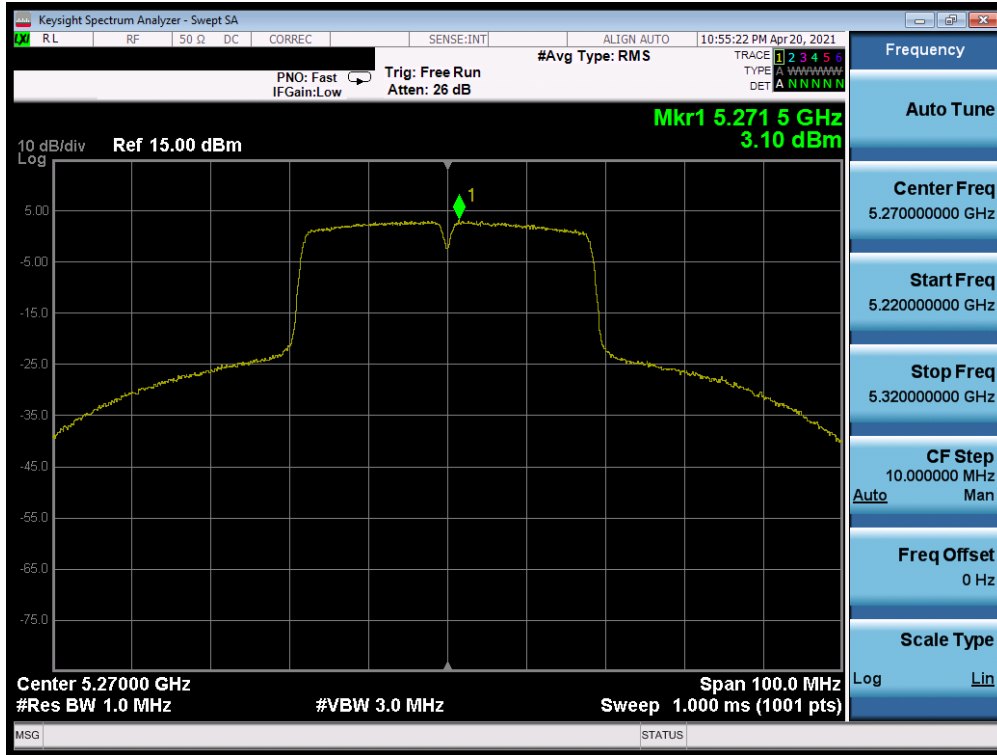


Plot 7-485. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)



Plot 7-486. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 287 of 508

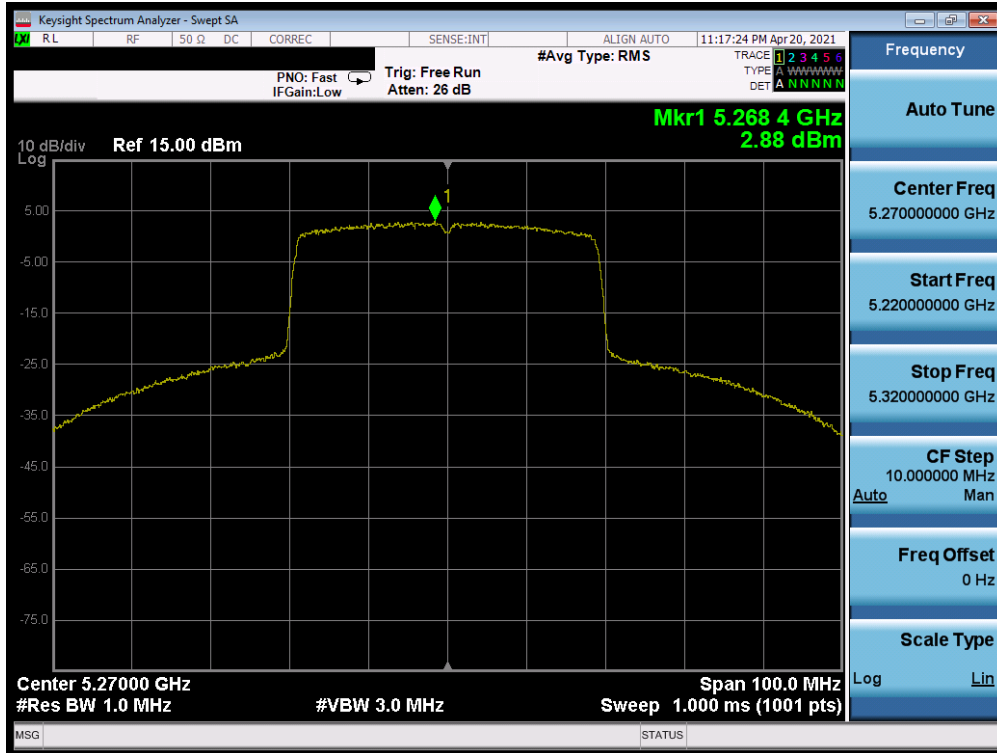


Plot 7-487. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

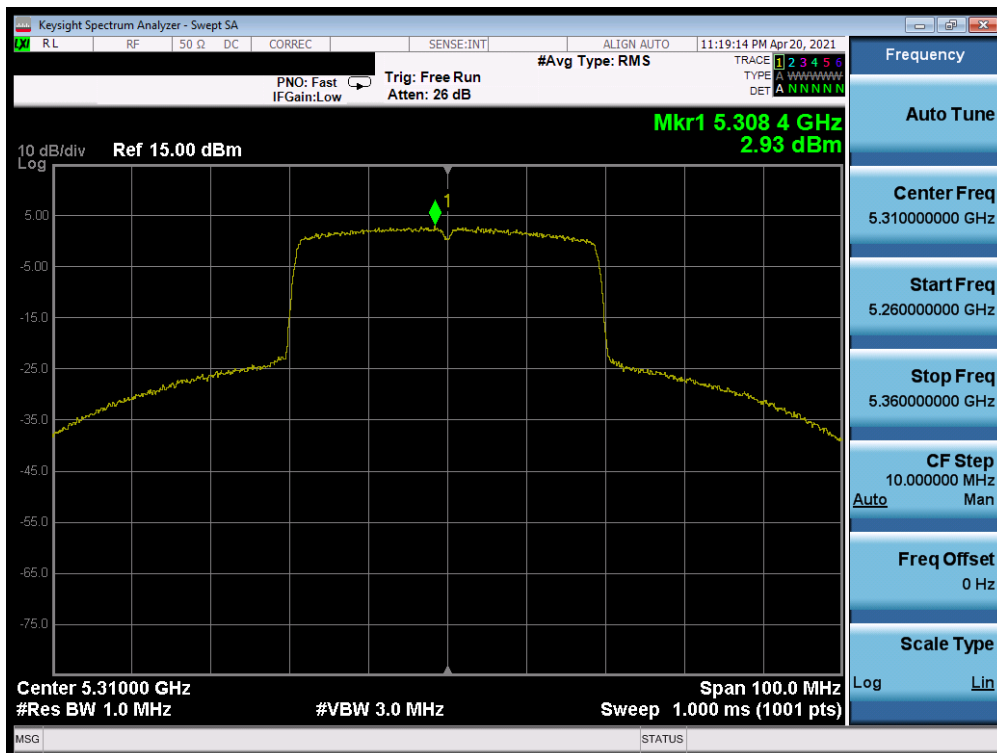


Plot 7-488. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 288 of 508

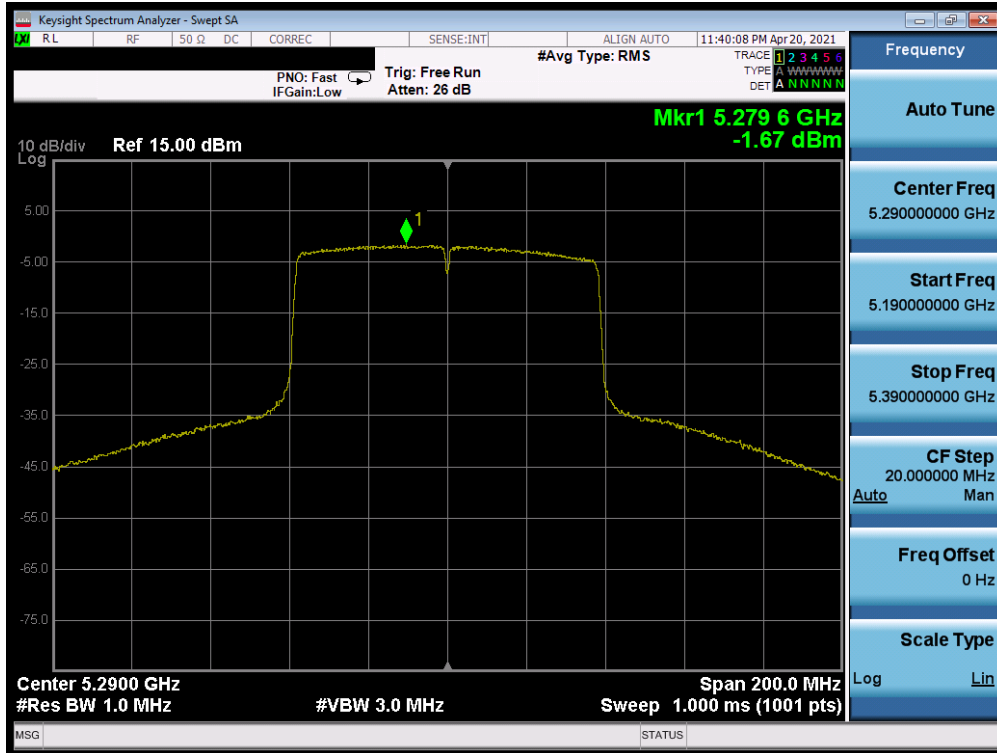


Plot 7-489. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

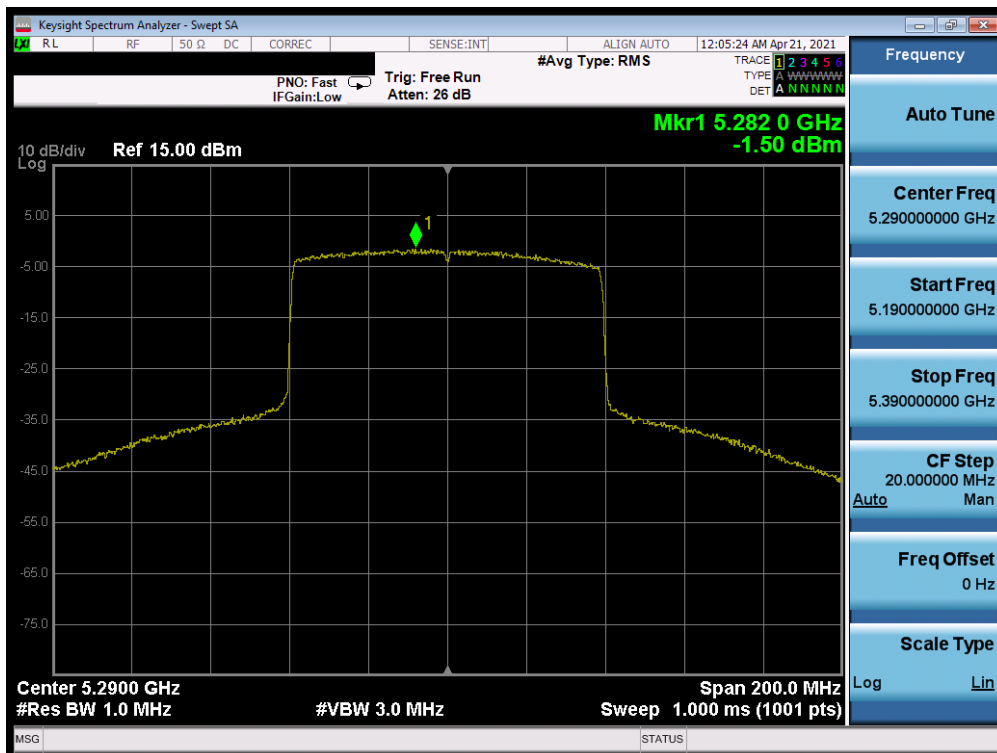


Plot 7-490. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 289 of 508

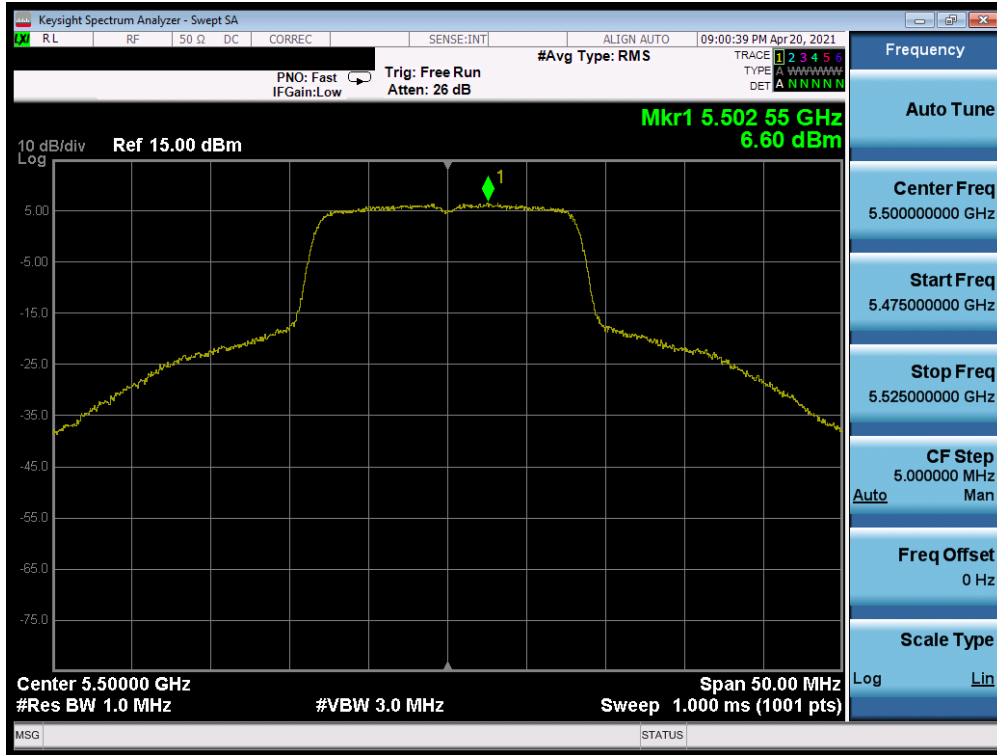


Plot 7-491. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

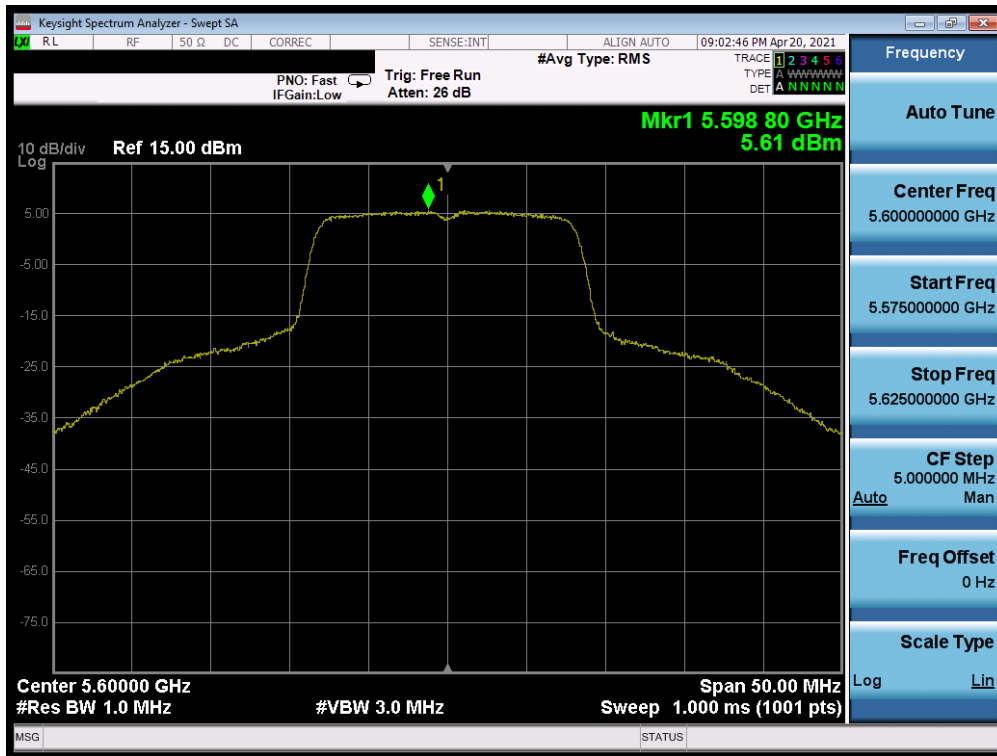


Plot 7-492. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 290 of 508

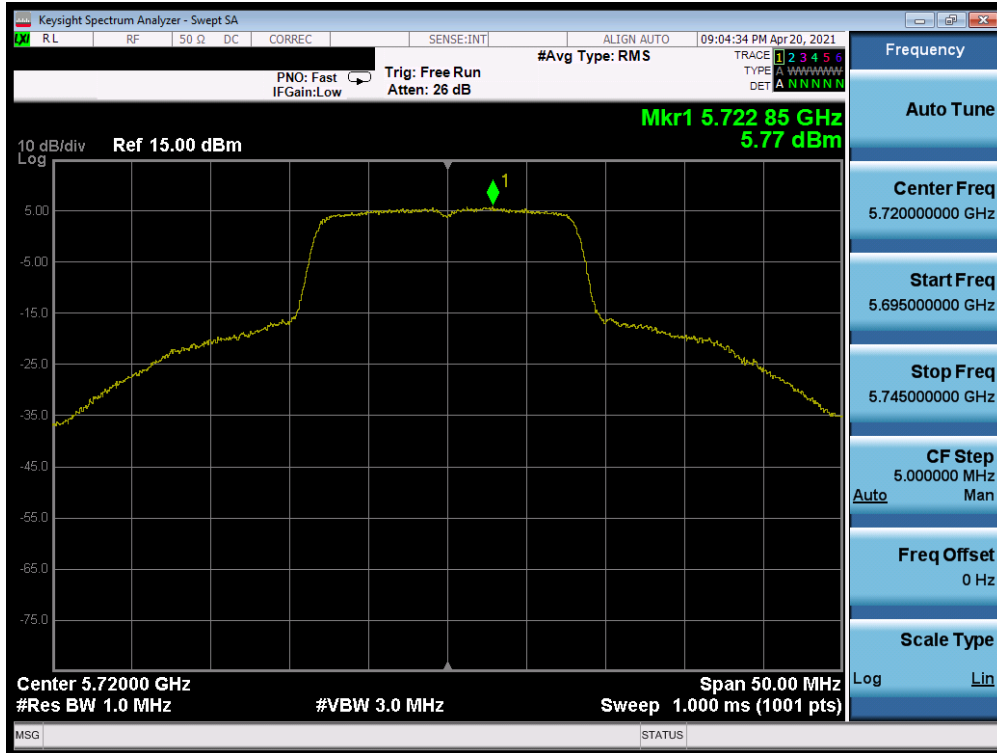


Plot 7-493. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) – Ch. 100)

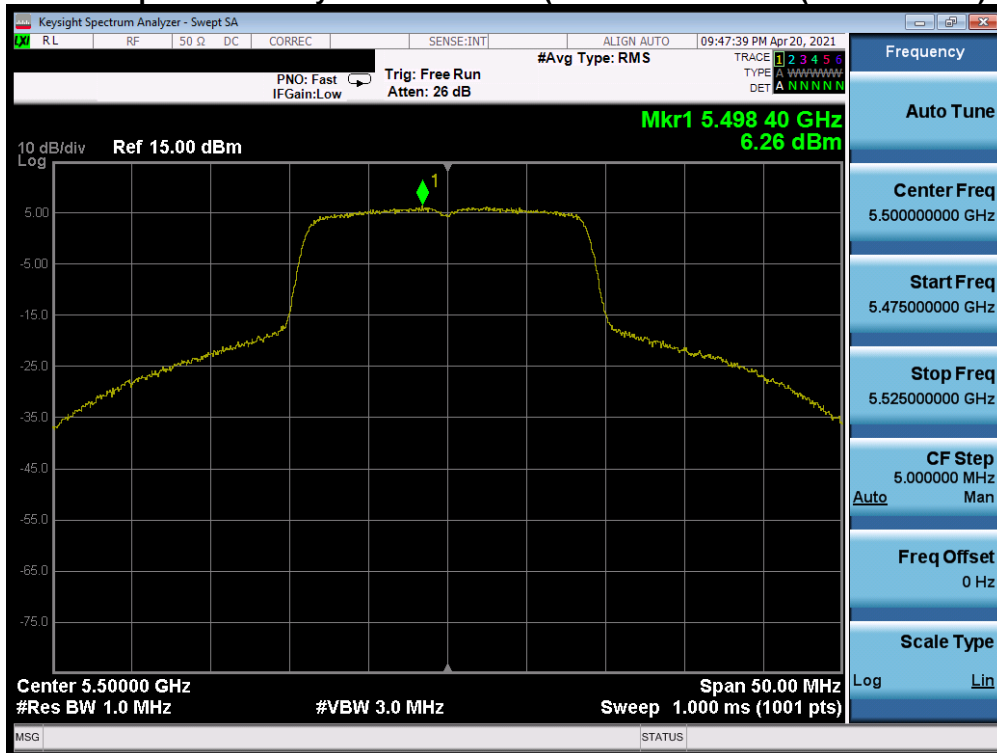


Plot 7-494. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 291 of 508

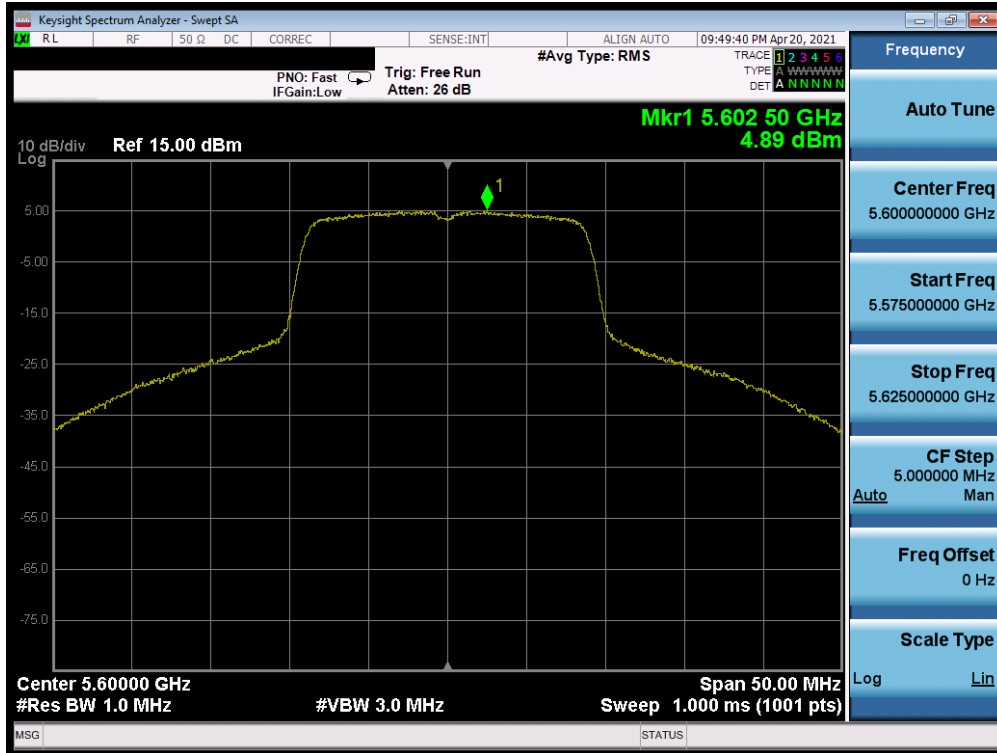


Plot 7-495. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) – Ch. 144)

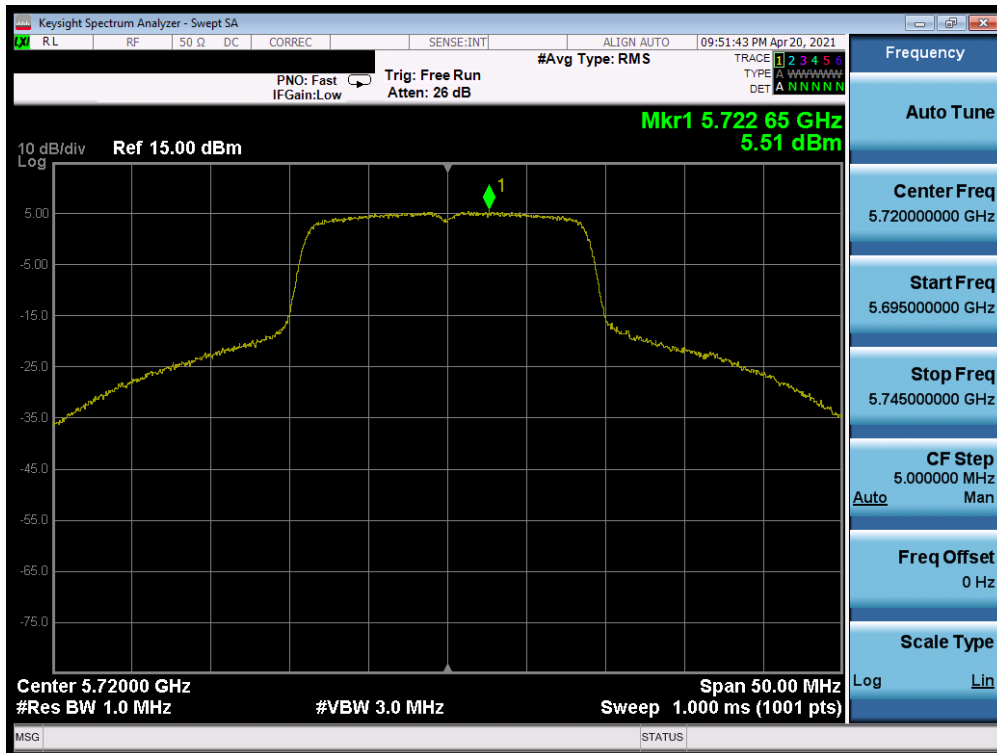


Plot 7-496. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 292 of 508

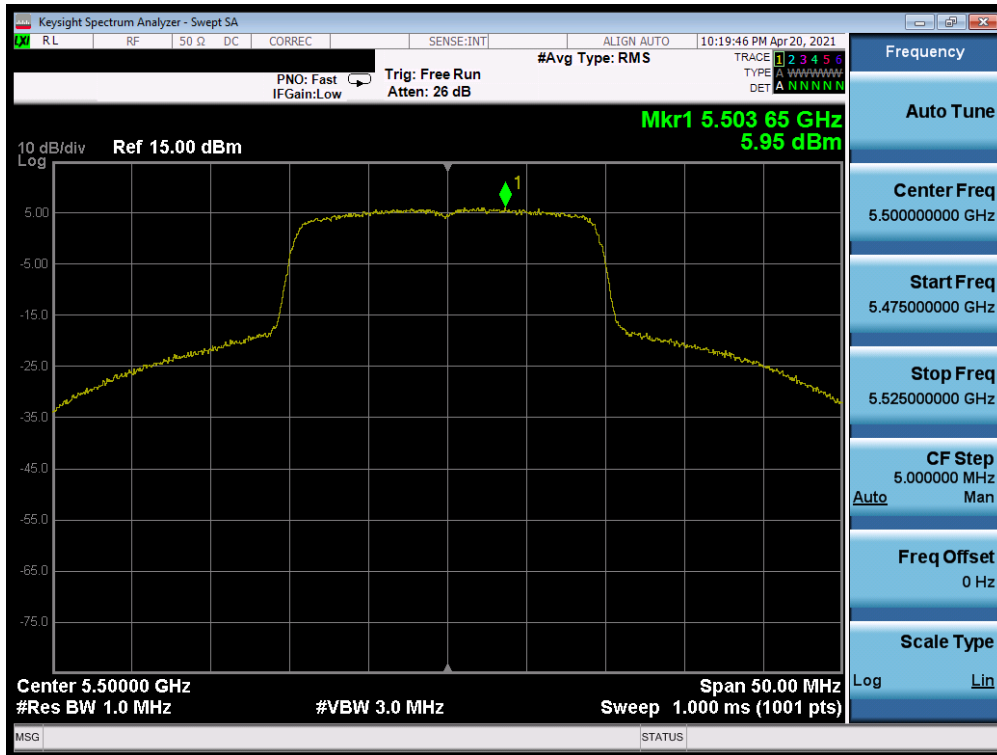


Plot 7-497. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

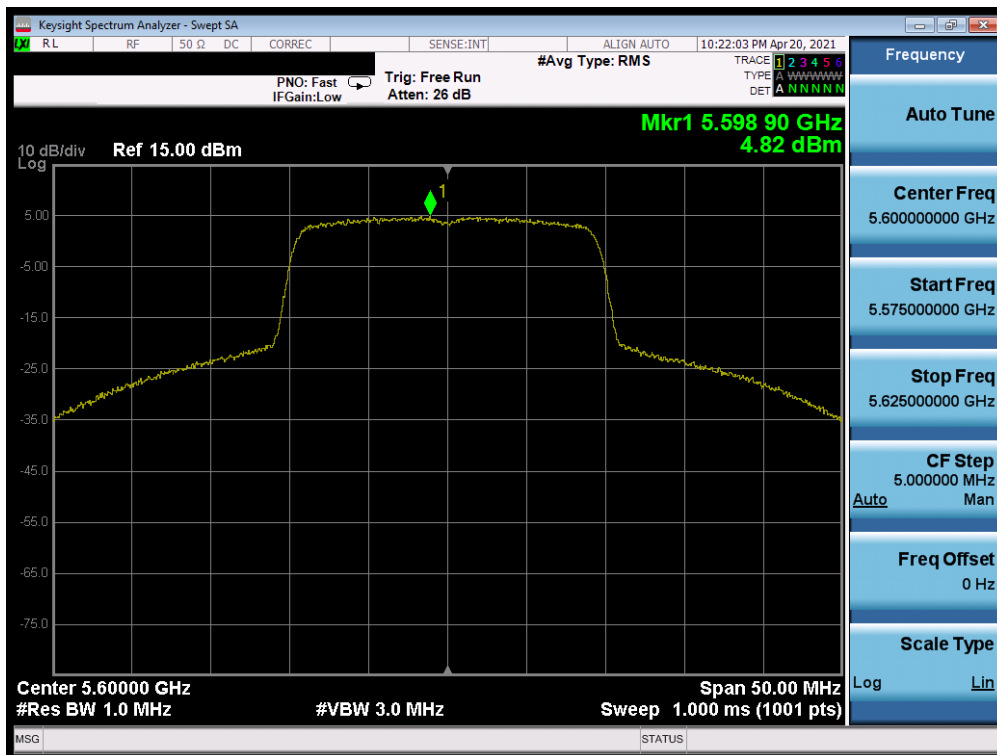


Plot 7-498. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 293 of 508

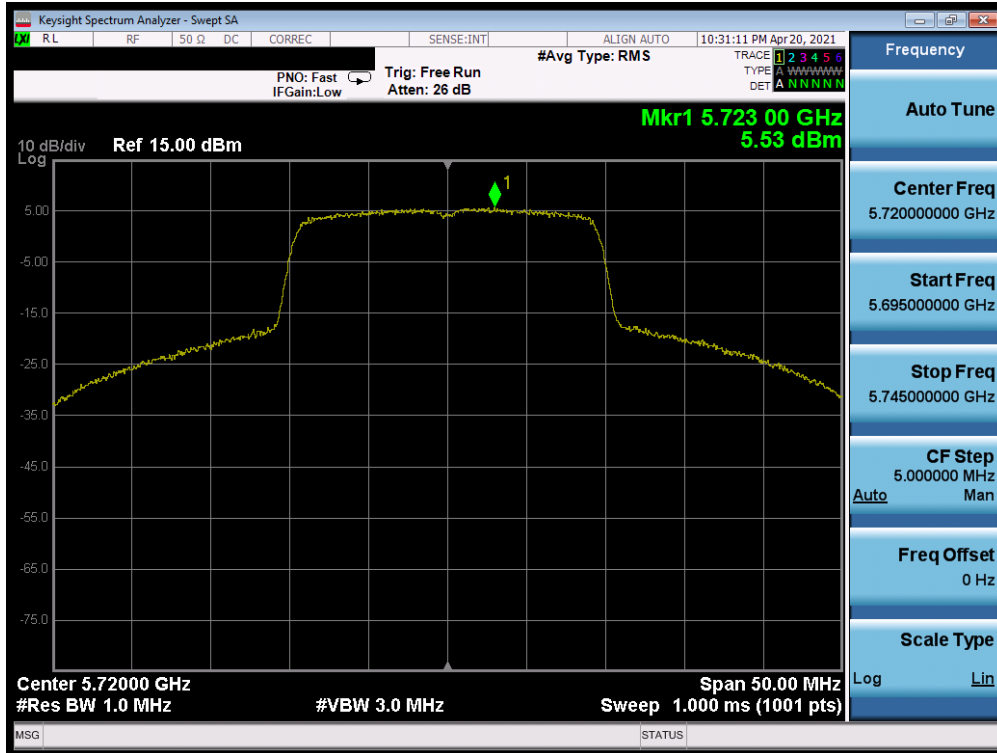


Plot 7-499. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

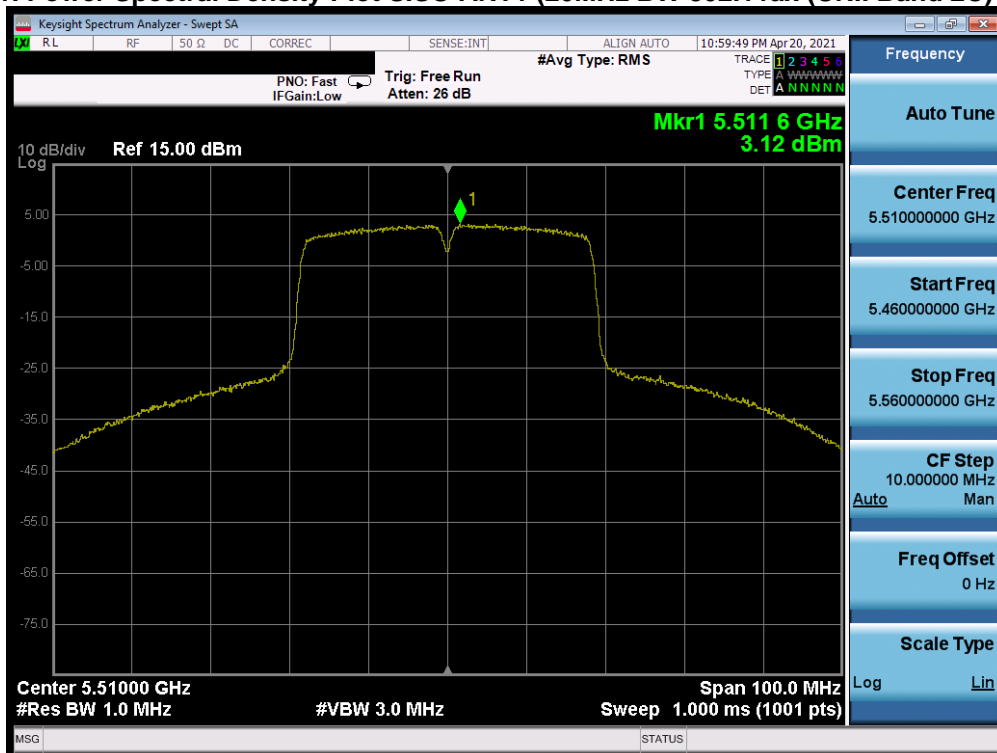


Plot 7-500. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 294 of 508

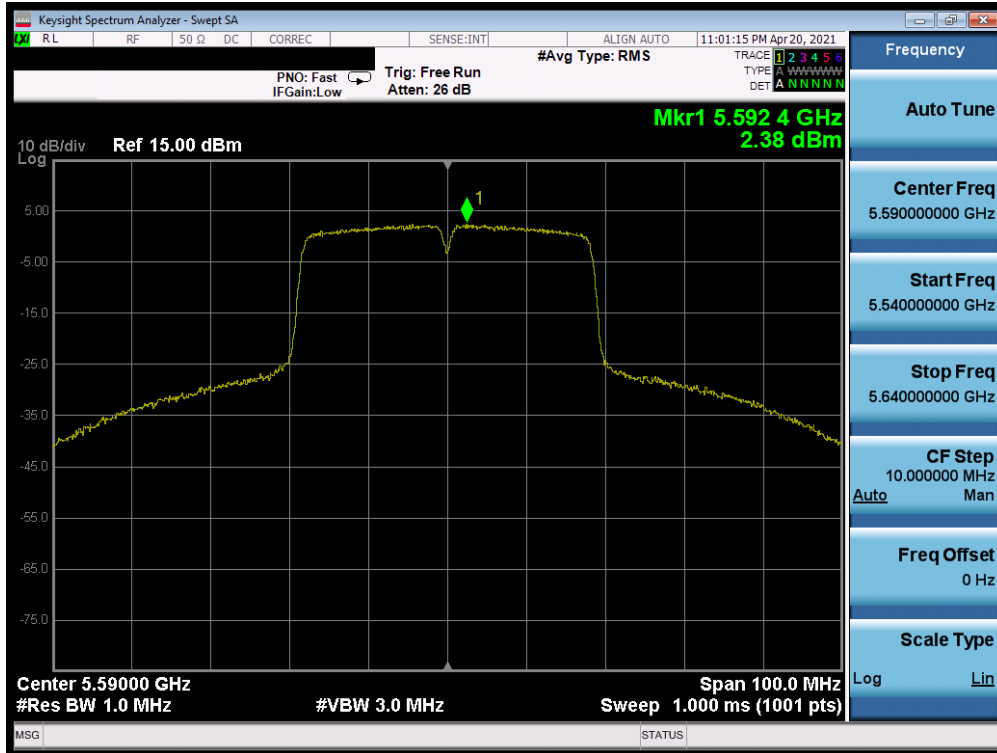


Plot 7-501. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

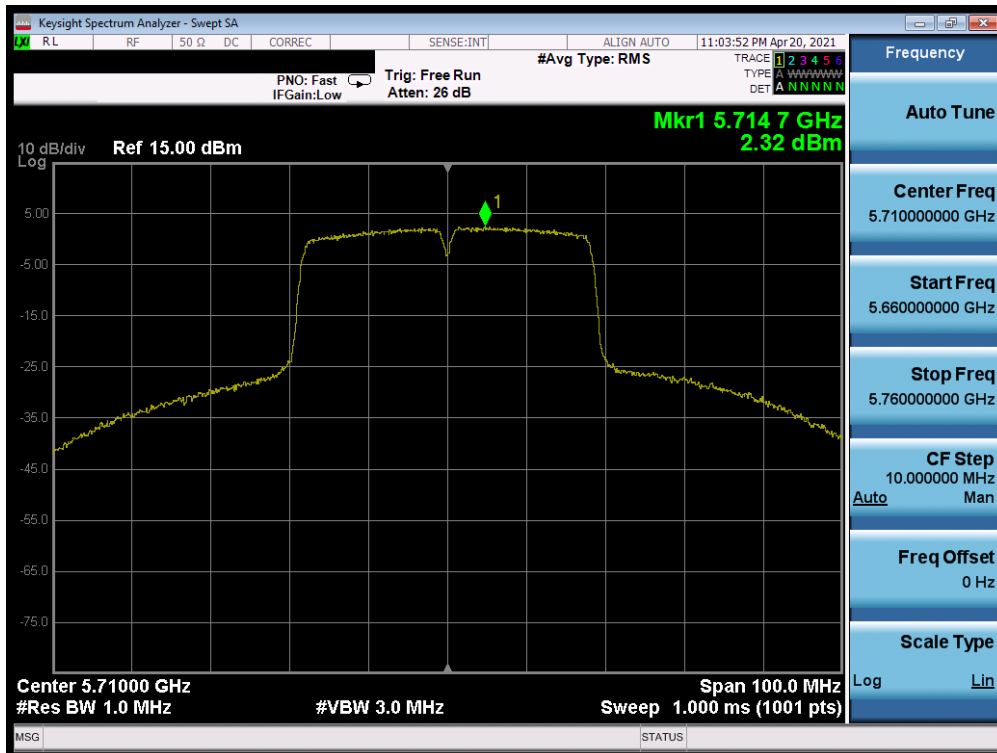


Plot 7-502. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 295 of 508

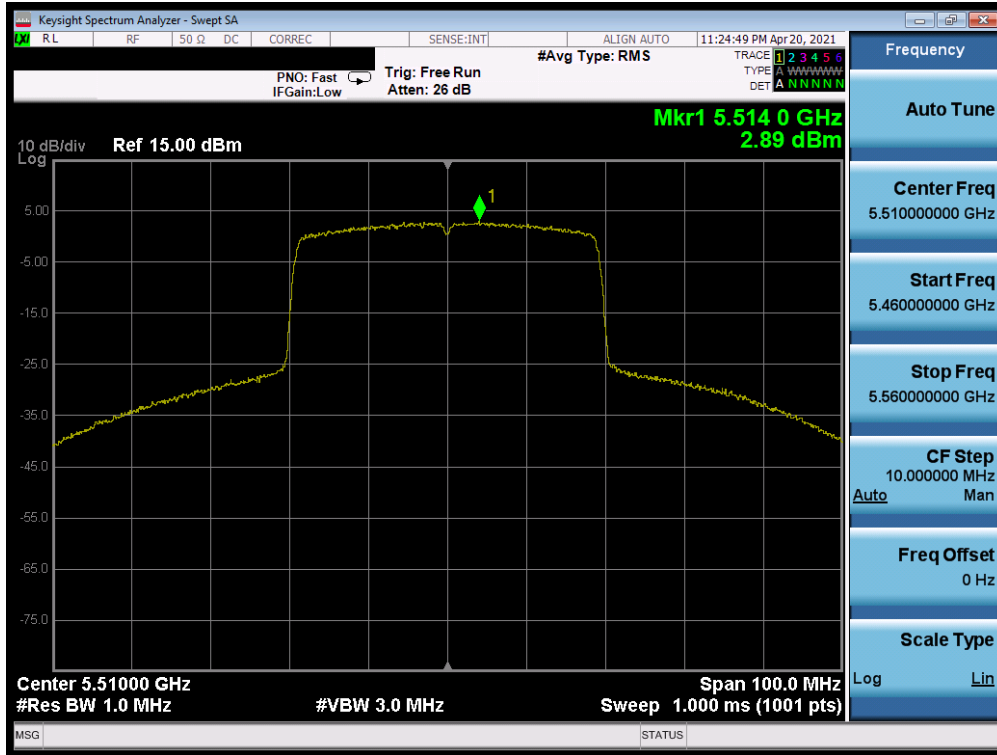


Plot 7-503. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

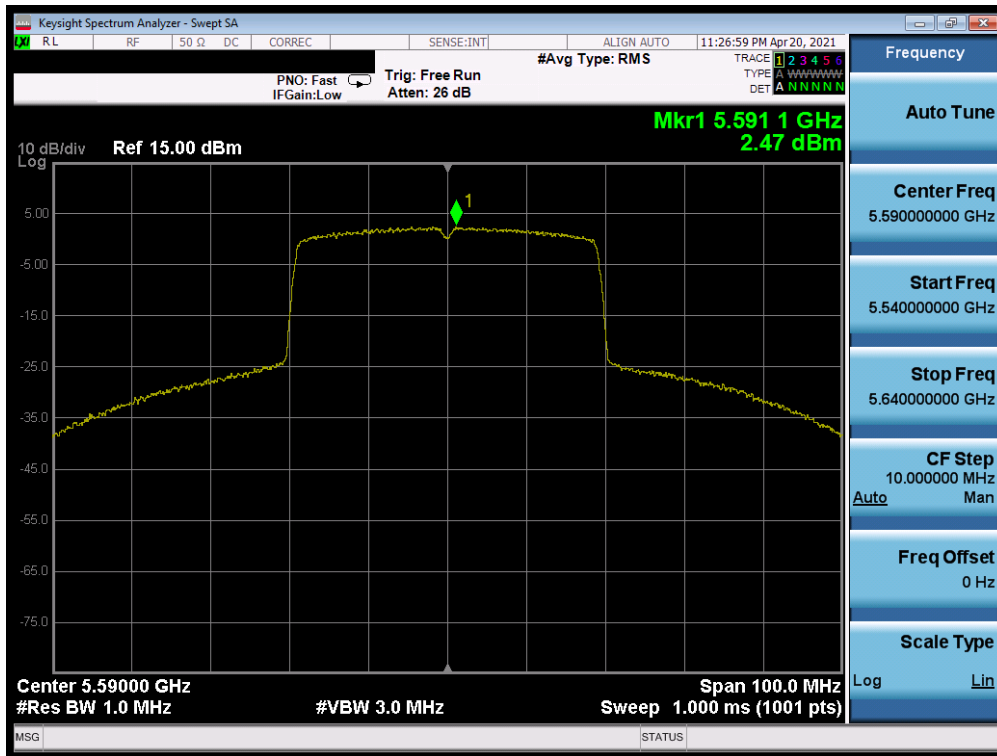


Plot 7-504. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 296 of 508

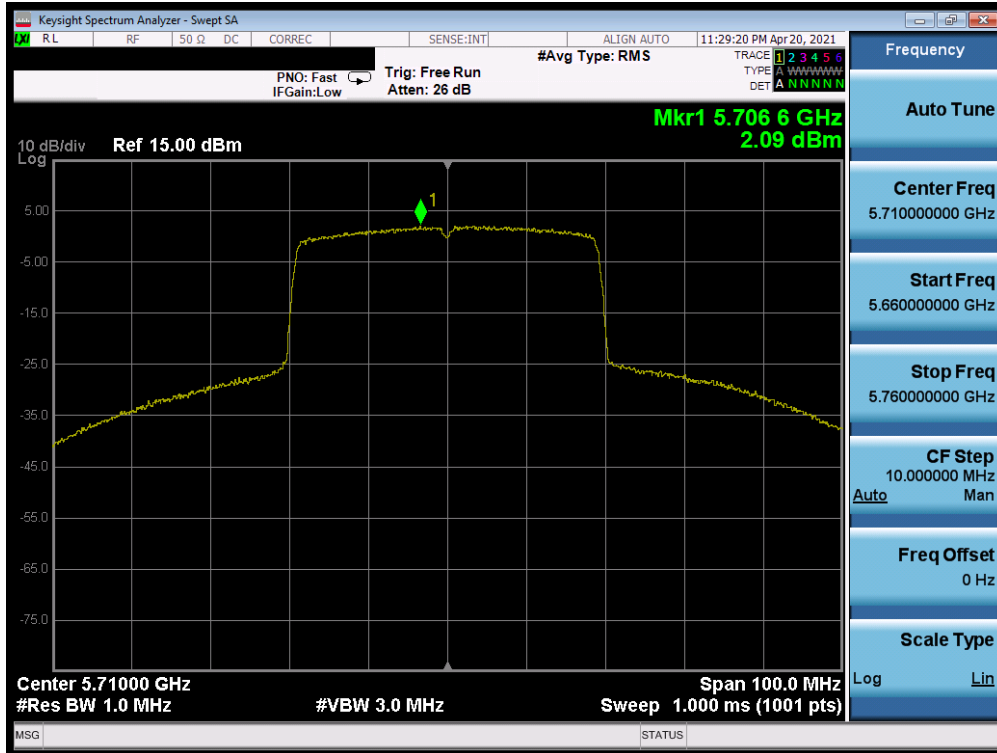


Plot 7-505. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

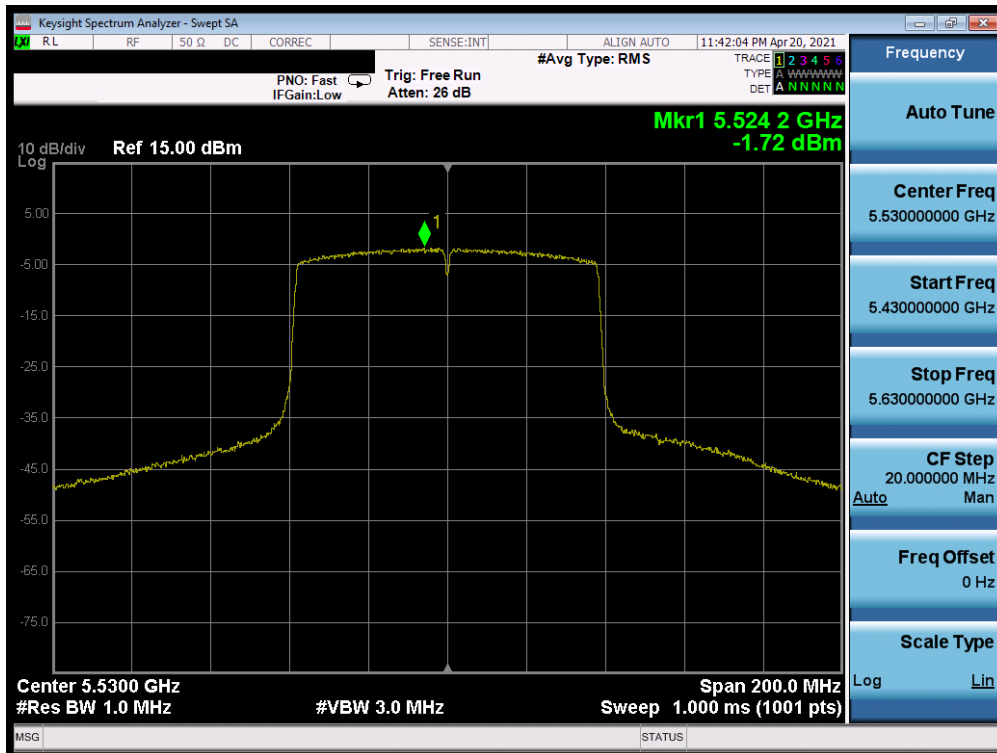


Plot 7-506. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 297 of 508

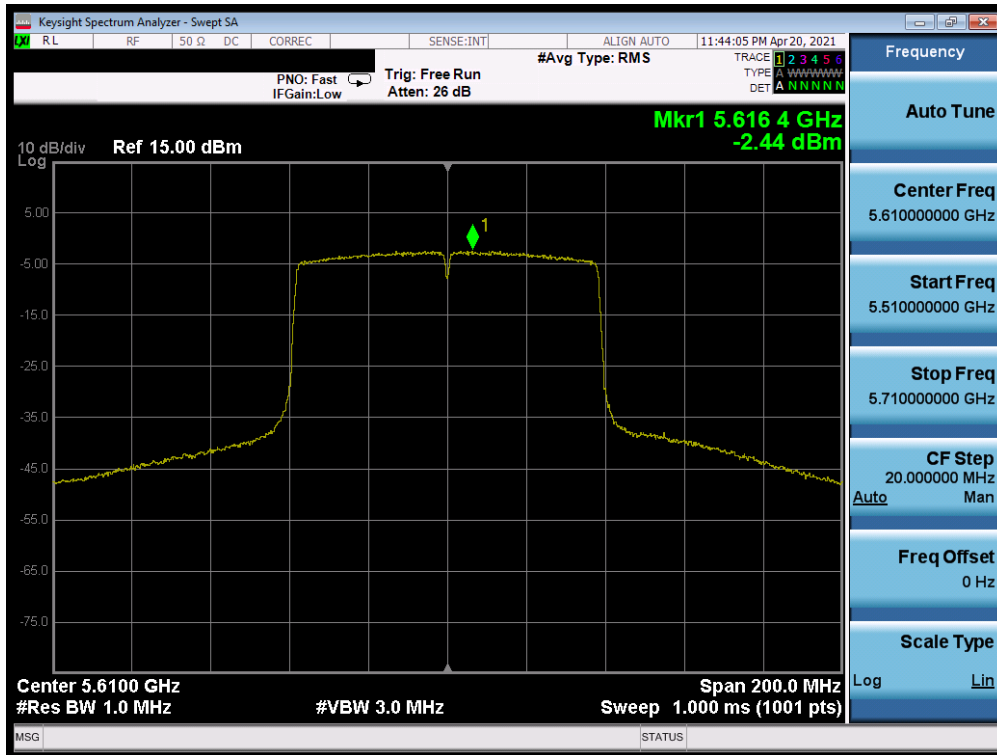


Plot 7-507. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

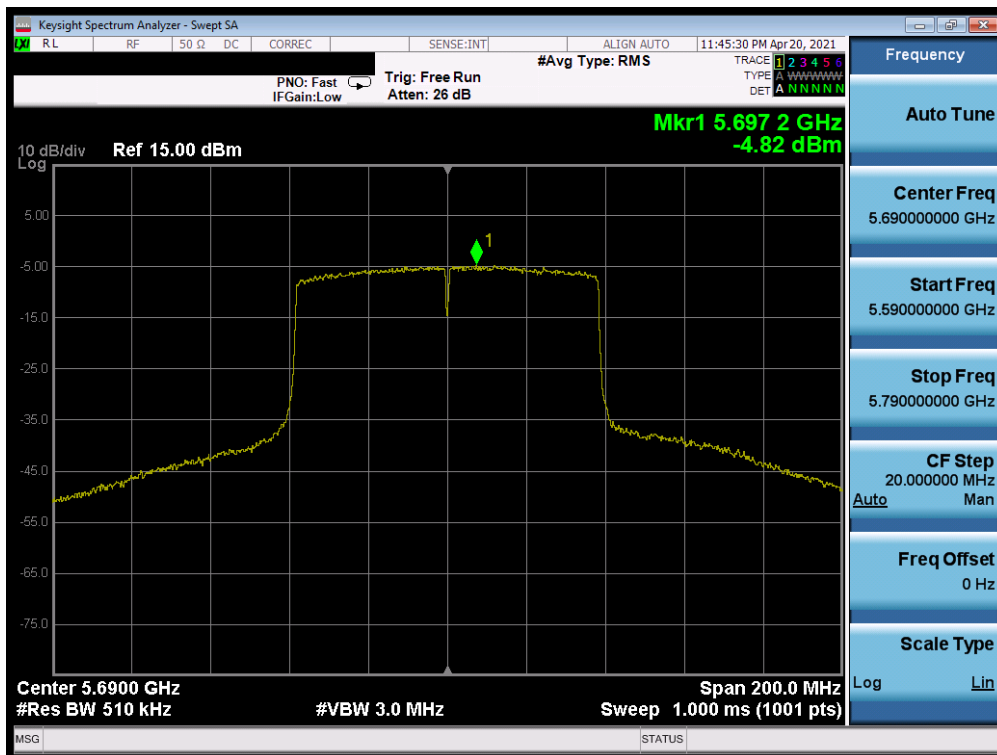


Plot 7-508. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 298 of 508

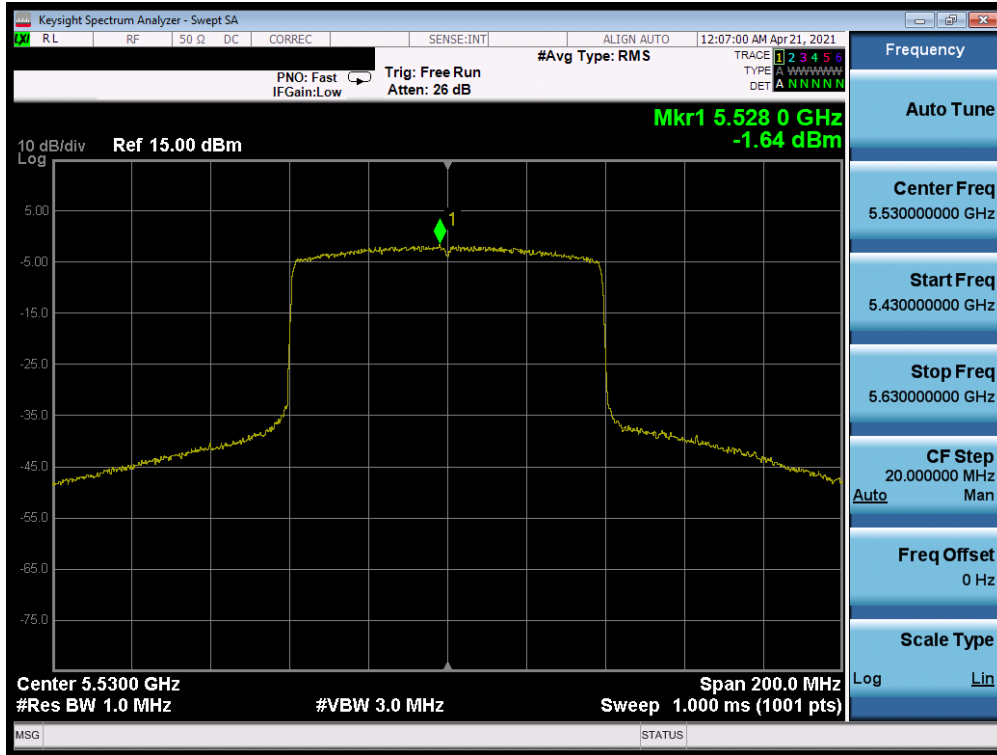


Plot 7-509. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

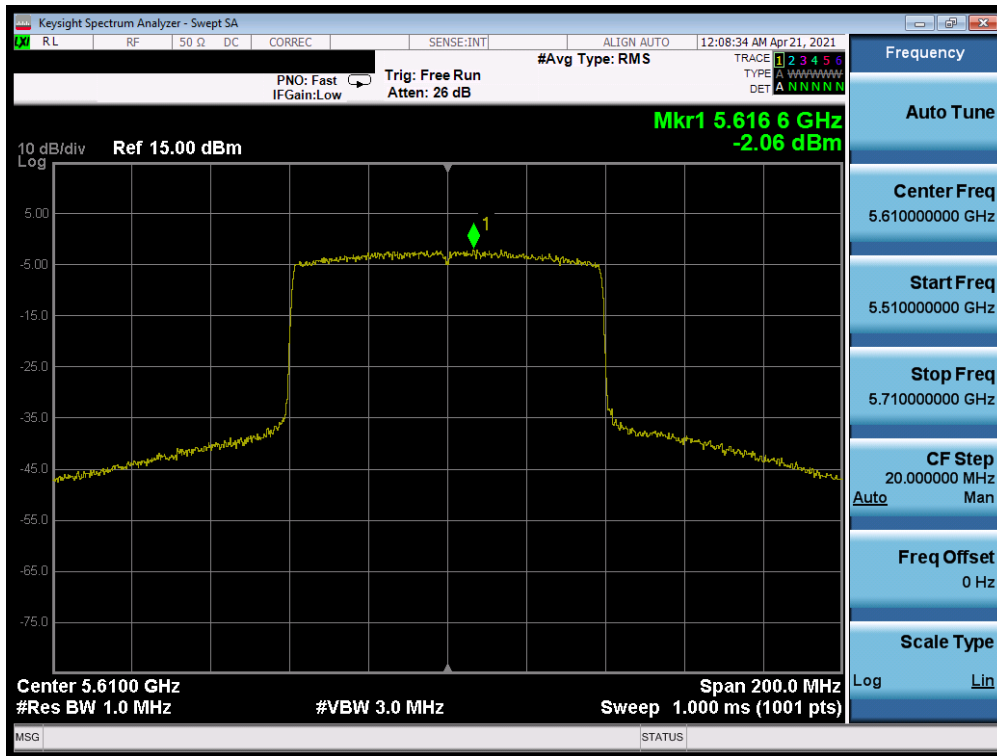


Plot 7-510. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 299 of 508

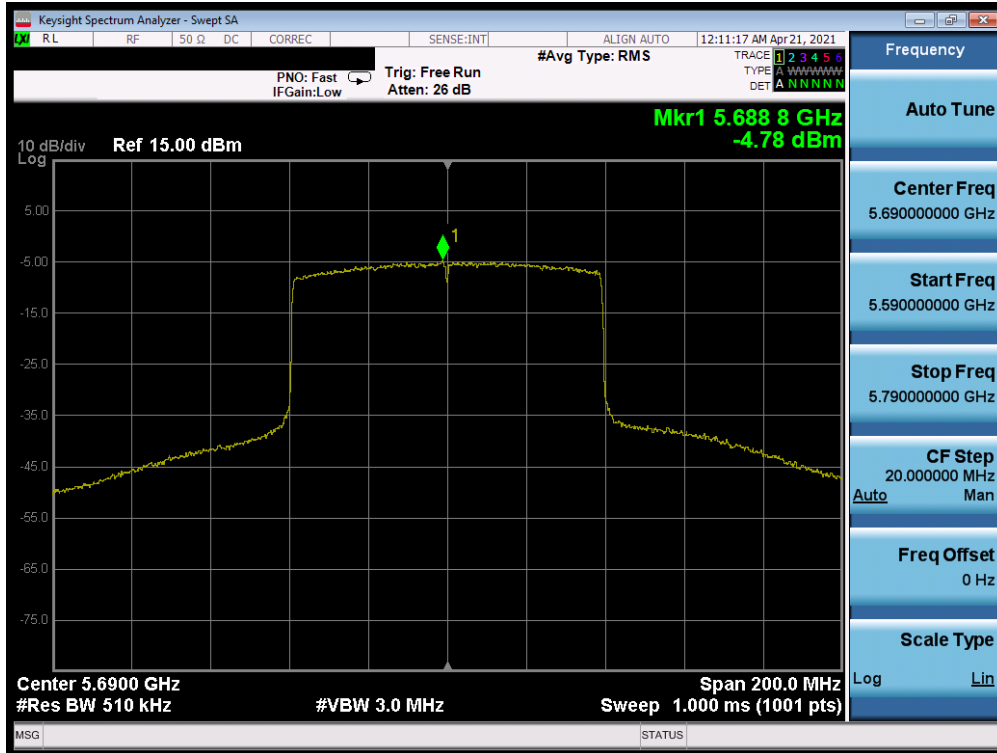


Plot 7-511. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)



Plot 7-512. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 300 of 508

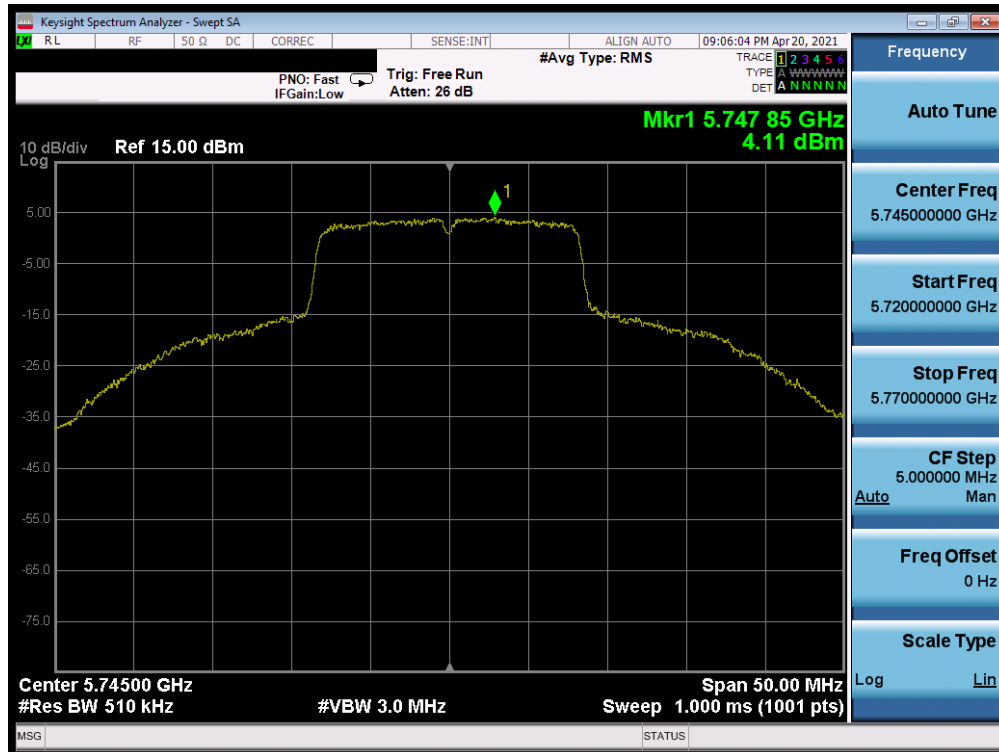


Plot 7-513. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 301 of 508

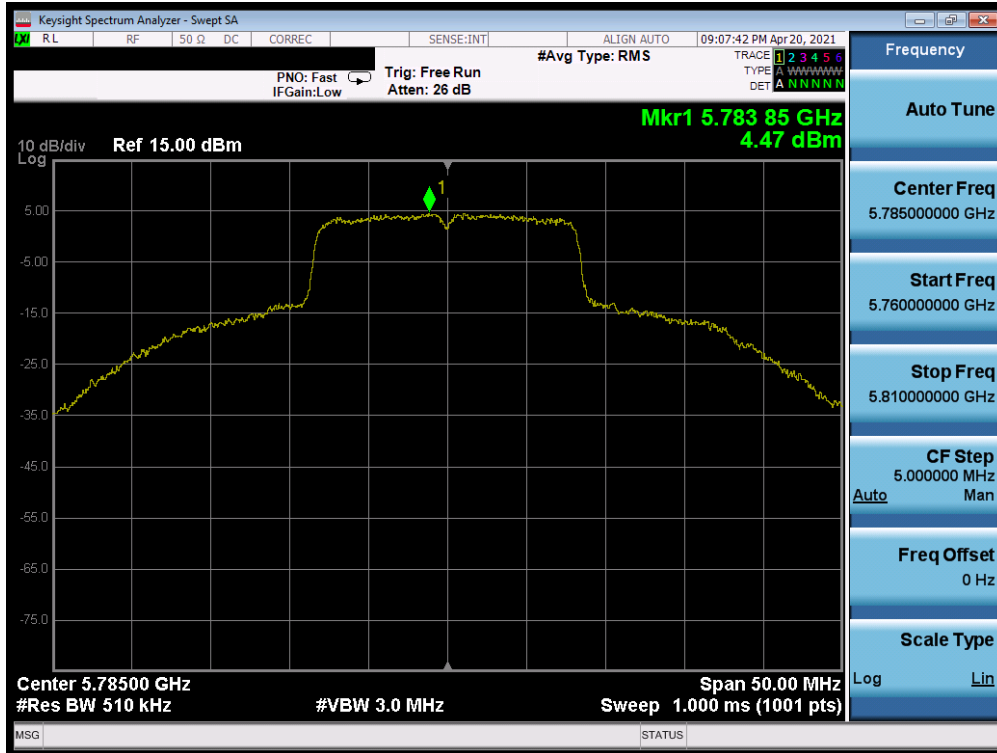
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	4.11	30.0	-25.89
	5785	157	a	6	4.47	30.0	-25.53
	5825	165	a	6	3.70	30.0	-26.30
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.58	30.0	-26.42
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	4.23	30.0	-25.77
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.35	30.0	-26.65
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.48	30.0	-25.52
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	4.22	30.0	-25.78
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	3.90	30.0	-26.10
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.33	30.0	-29.67
	5795	159	n (40MHz)	13.5/15 (MCS0)	0.45	30.0	-29.55
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.29	30.0	-29.71
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.37	30.0	-29.63
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.96	30.0	-30.96
5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.60	30.0	-30.60	

Table 7-39. Band 3 Conducted Power Spectral Density Measurements SISO ANT1

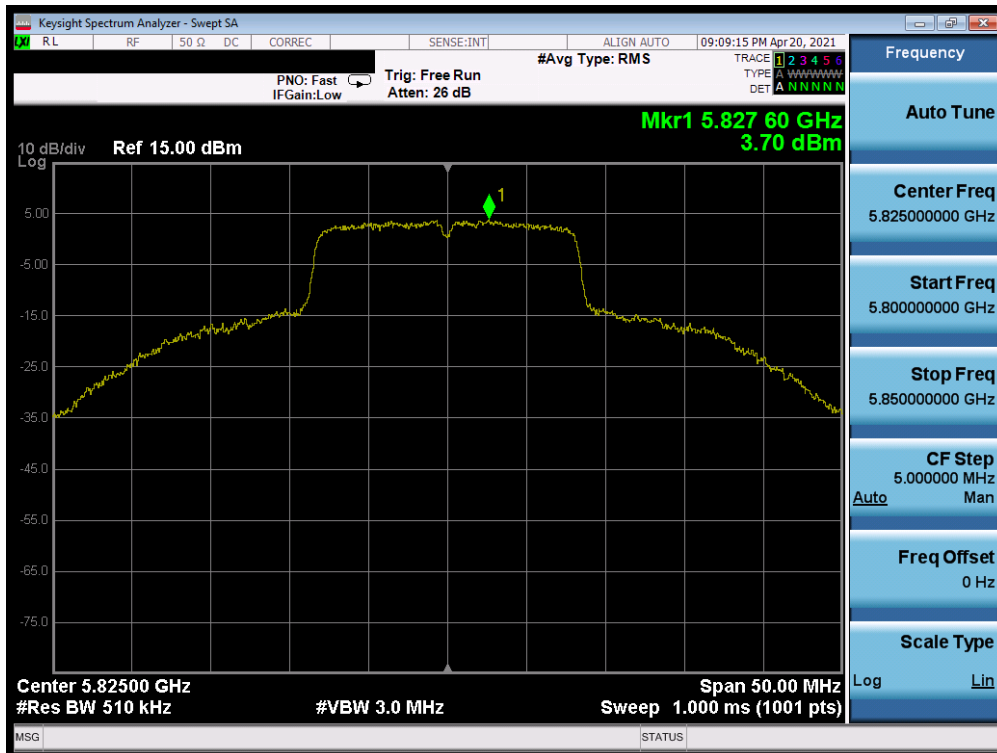


Plot 7-514. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711B	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 302 of 508

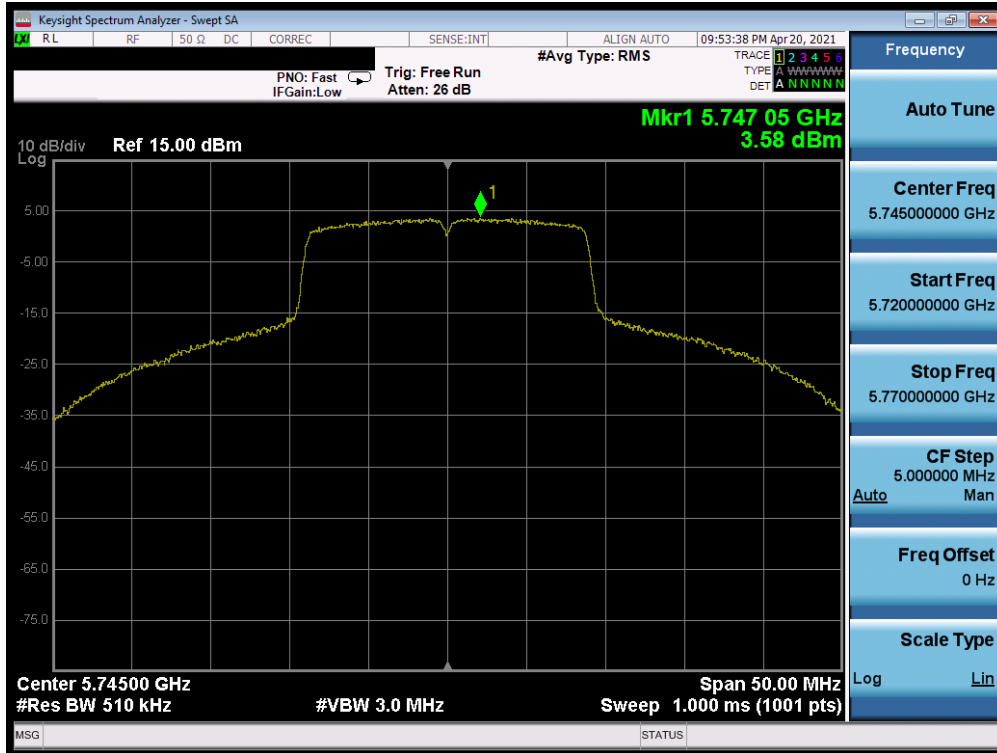


Plot 7-515. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) – Ch. 157)

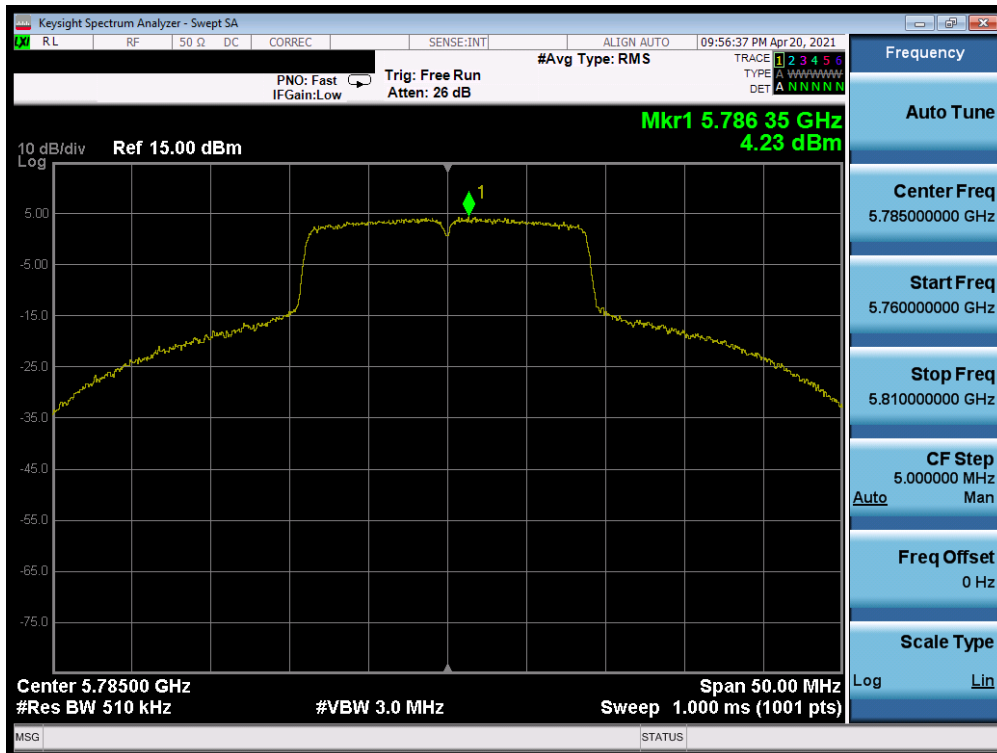


Plot 7-516. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 303 of 508

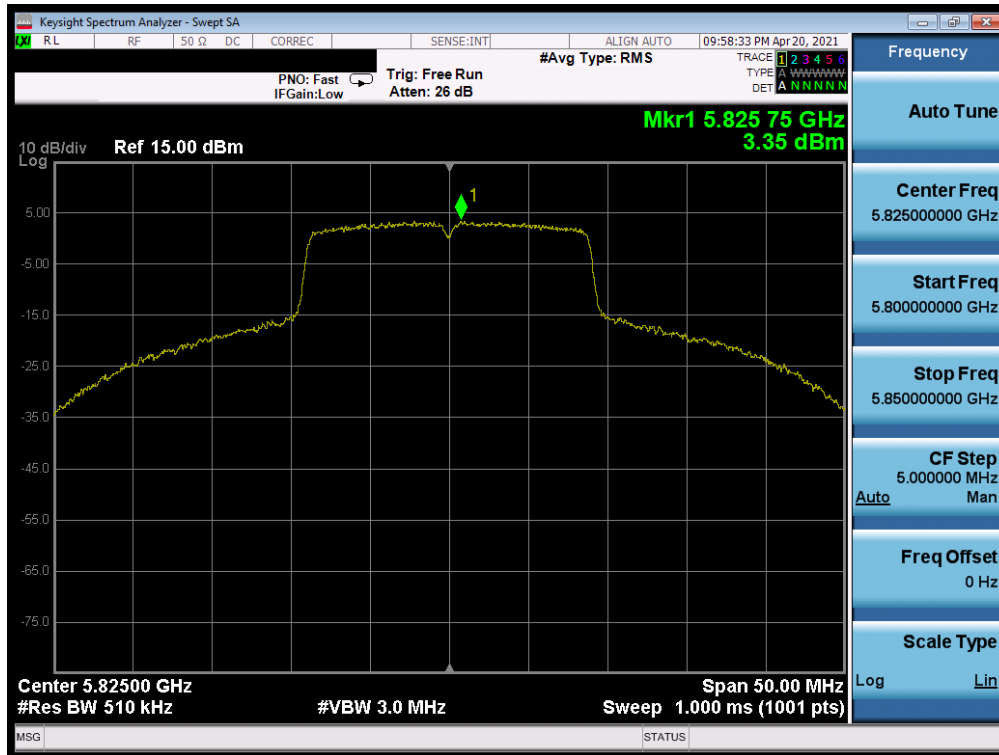


Plot 7-517. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

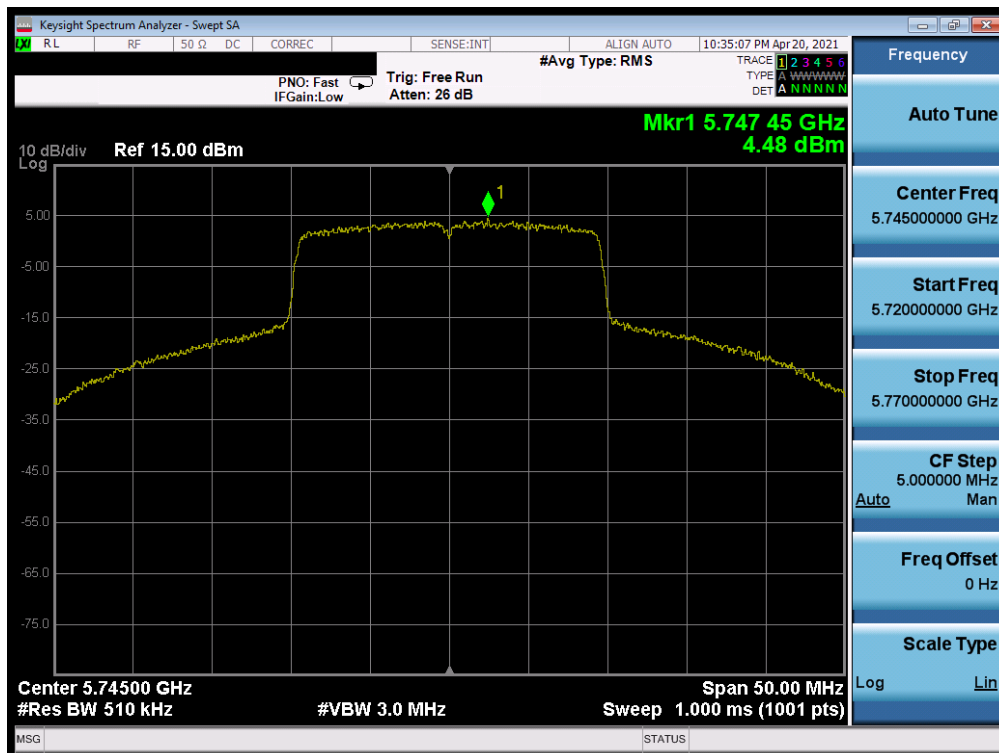


Plot 7-518. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 304 of 508

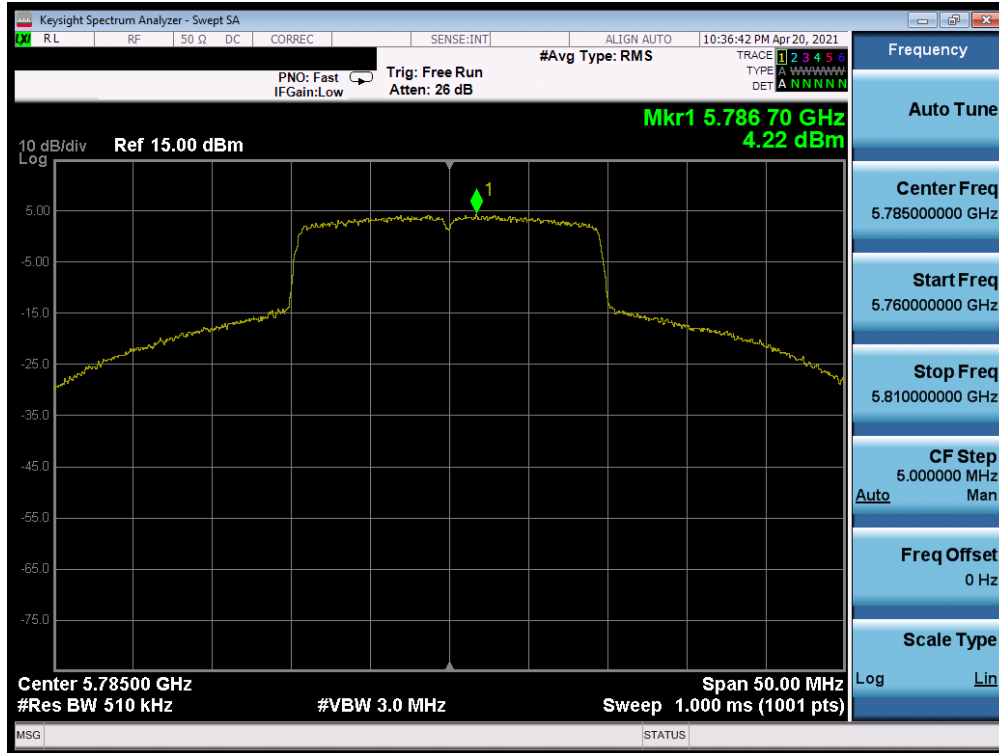


Plot 7-519. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

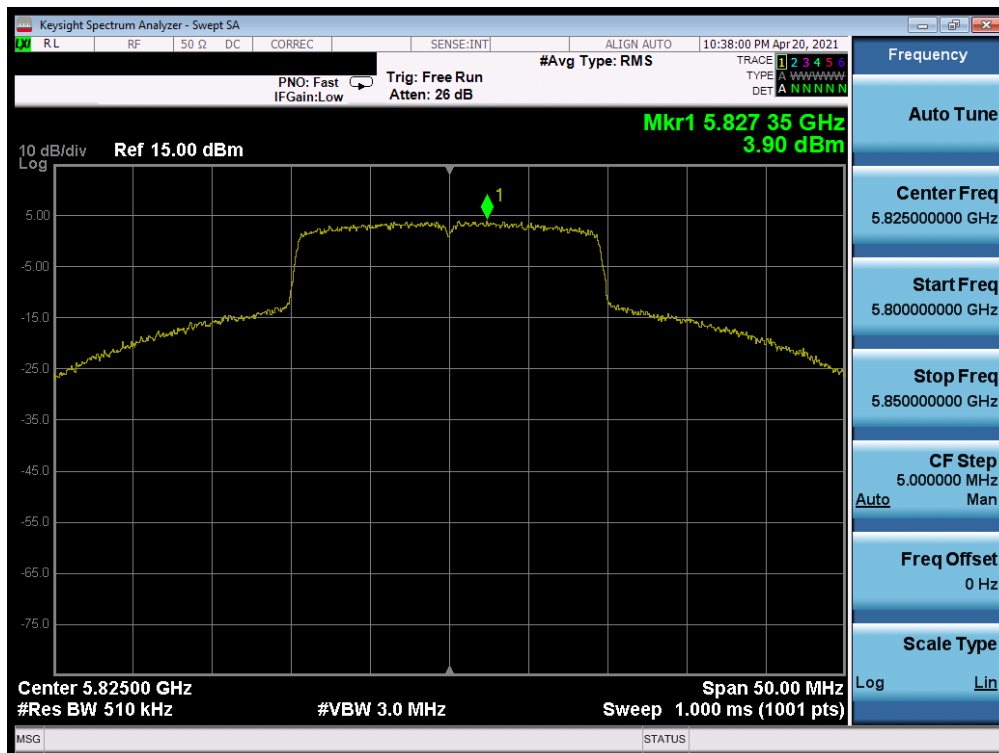


Plot 7-520. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 305 of 508

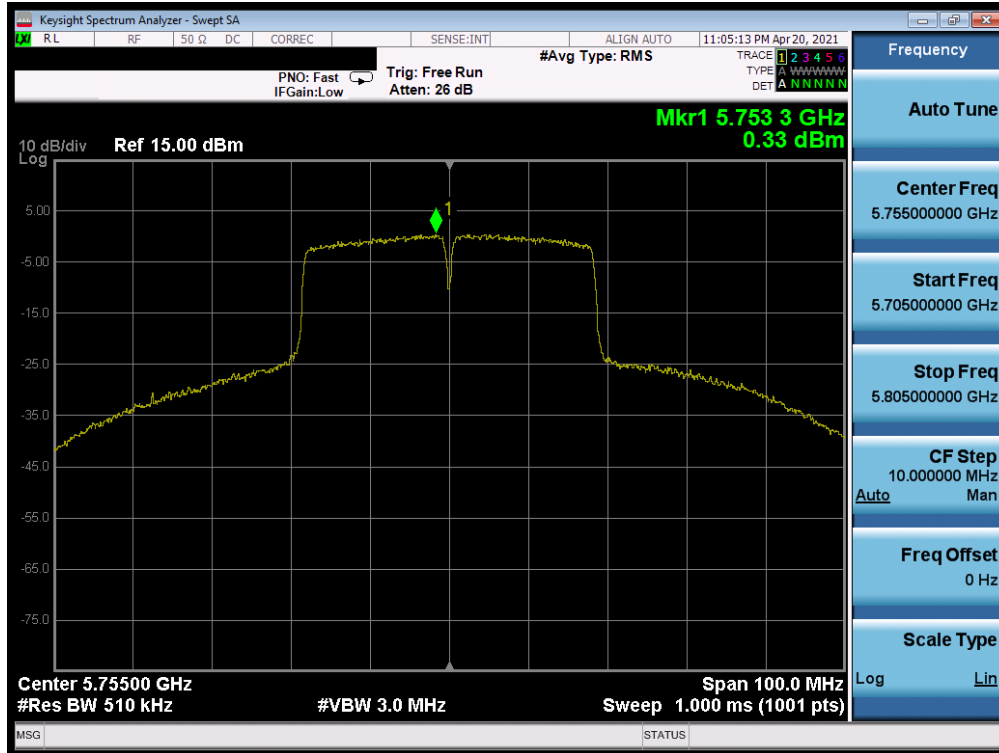


Plot 7-521. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

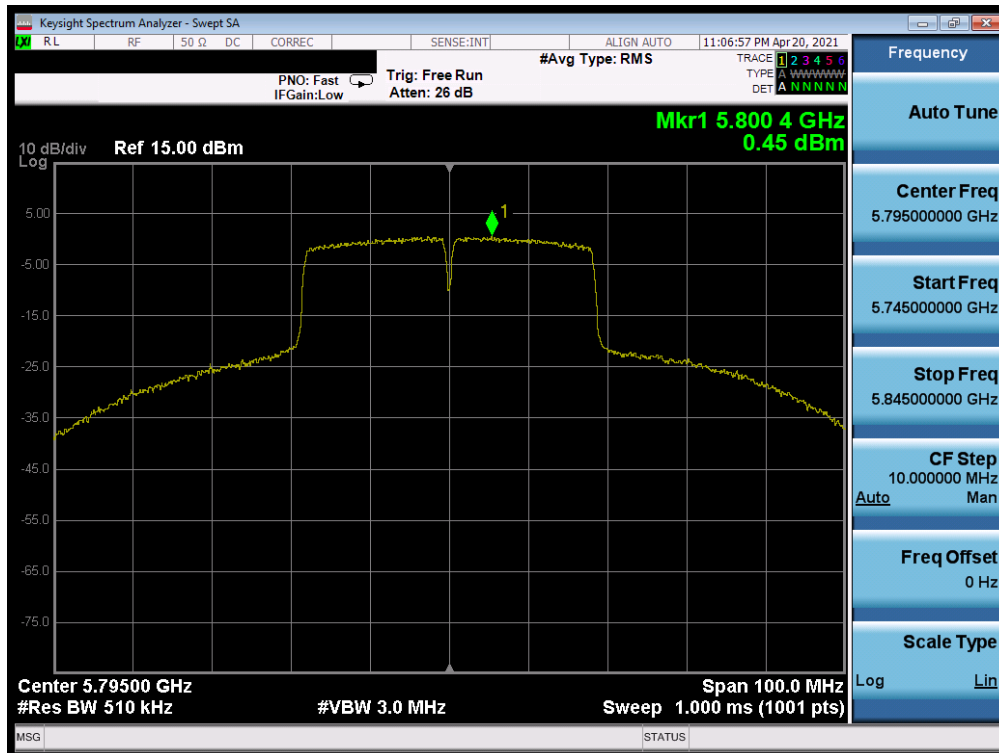


Plot 7-522. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 306 of 508

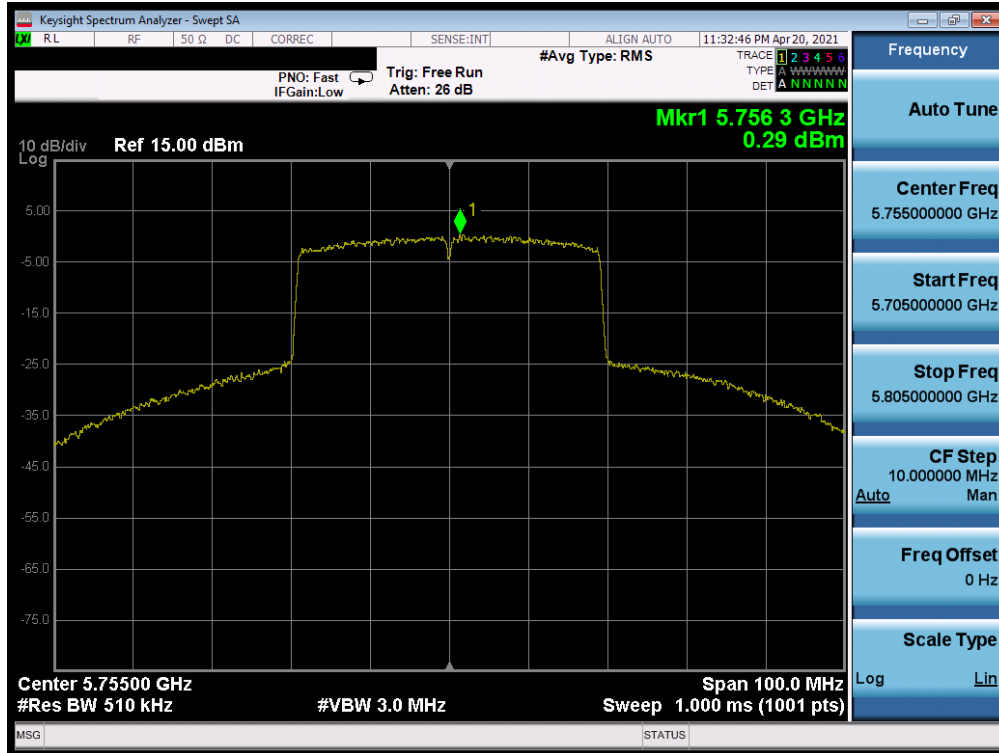


Plot 7-523. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

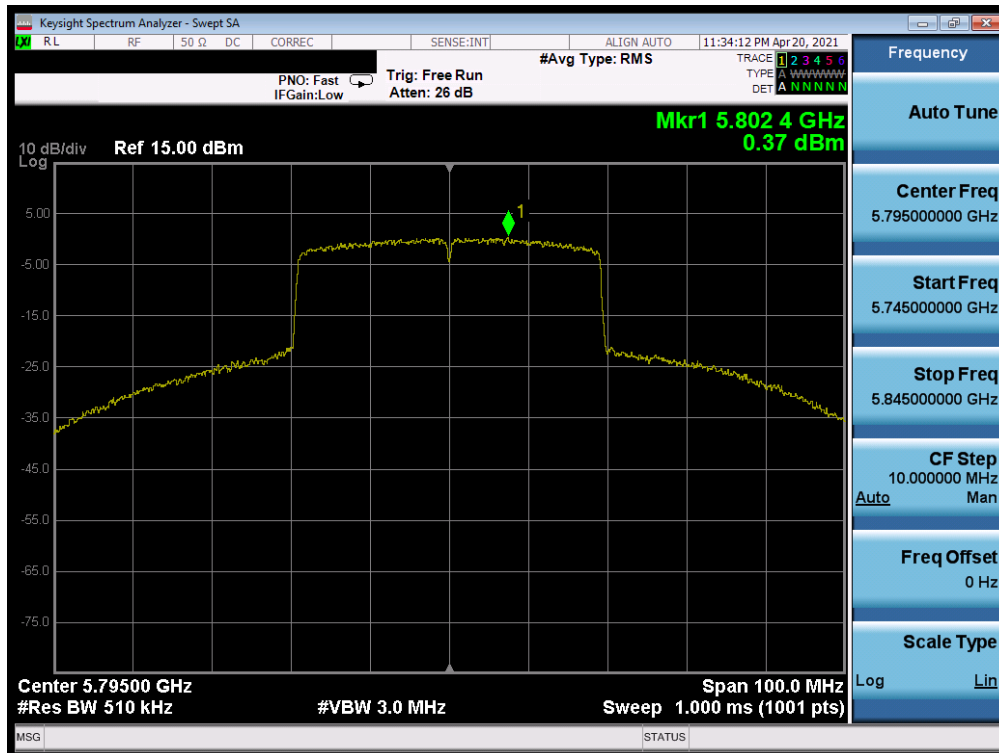


Plot 7-524. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 307 of 508



Plot 7-525. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)



Plot 7-526. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711B	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 308 of 508

Summed MIMO Power Spectral Density Measurements - Q

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	5.71	4.33	8.09	11.0	-2.91
	5200	40	a	6	5.65	4.35	8.06	11.0	-2.94
	5240	48	a	6	6.51	4.93	8.80	11.0	-2.20
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.33	4.18	7.80	11.0	-3.20
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	5.14	3.88	7.57	11.0	-3.43
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.14	4.71	8.50	11.0	-2.50
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	5.23	4.03	7.68	11.0	-3.32
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	5.13	3.93	7.58	11.0	-3.42
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	6.18	4.42	8.40	11.0	-2.60
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.84	0.53	4.24	11.0	-6.76
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.34	0.90	4.69	11.0	-6.31
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.73	0.50	4.17	11.0	-6.83
	5230	46	ax (40MHz)	13.5/15 (MCS0)	1.64	0.13	3.96	11.0	-7.04
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.29	0.47	2.69	11.0	-8.31
5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-0.49	-0.37	2.58	11.0	-8.42	
Band 2A	5260	52	a	6	6.08	5.40	8.76	11.0	-2.24
	5280	56	a	6	6.53	6.25	9.40	11.0	-1.60
	5320	64	a	6	6.51	6.26	9.39	11.0	-1.61
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.98	5.06	9.13	11.0	-1.87
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.90	5.88	9.43	11.0	-1.57
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.73	5.88	9.34	11.0	-1.66
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	6.31	5.16	8.78	11.0	-2.22
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	6.78	5.99	9.41	11.0	-1.59
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	6.79	6.03	9.44	11.0	-1.56
	5270	54	n (40MHz)	13.5/15 (MCS0)	3.15	1.61	5.46	11.0	-5.54
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.98	2.25	5.64	11.0	-5.36
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.24	0.95	4.65	11.0	-6.35
	5310	62	ax (40MHz)	13.5/15 (MCS0)	2.45	1.26	4.91	11.0	-6.09
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.55	0.06	2.78	11.0	-8.22
5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-0.54	-0.36	2.56	11.0	-8.44	
Band 2C	5500	100	a	6	6.72	6.63	9.69	11.0	-1.31
	5600	120	a	6	5.66	5.66	8.67	11.0	-2.33
	5720	144	a	6	6.19	5.16	8.72	11.0	-2.28
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.58	6.18	9.39	11.0	-1.61
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.10	4.97	8.04	11.0	-2.96
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.15	4.92	8.59	11.0	-2.41
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	6.65	6.09	9.39	11.0	-1.61
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	5.55	4.57	8.10	11.0	-2.90
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	6.35	4.54	8.55	11.0	-2.45
	5510	102	n (40MHz)	13.5/15 (MCS0)	3.42	3.73	6.59	11.0	-4.41
	5590	118	n (40MHz)	13.5/15 (MCS0)	2.46	1.78	5.14	11.0	-5.86
	5710	142	n (40MHz)	13.5/15 (MCS0)	3.25	4.47	6.91	11.0	-4.09
	5510	102	ax (40MHz)	13.5/15 (MCS0)	2.06	2.99	5.56	11.0	-5.44
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.90	1.08	4.52	11.0	-6.48
	5710	142	ax (40MHz)	13.5/15 (MCS0)	2.93	4.12	6.58	11.0	-4.42
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.19	-2.06	1.41	11.0	-9.59
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.87	-2.65	0.77	11.0	-10.23
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-3.79	-2.90	-0.31	11.0	-11.31
5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-2.21	-1.89	0.96	11.0	-10.04	
5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.41	-2.32	0.64	11.0	-10.36	
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-6.34	-6.56	-3.44	11.0	-14.44	

Table 7-40. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

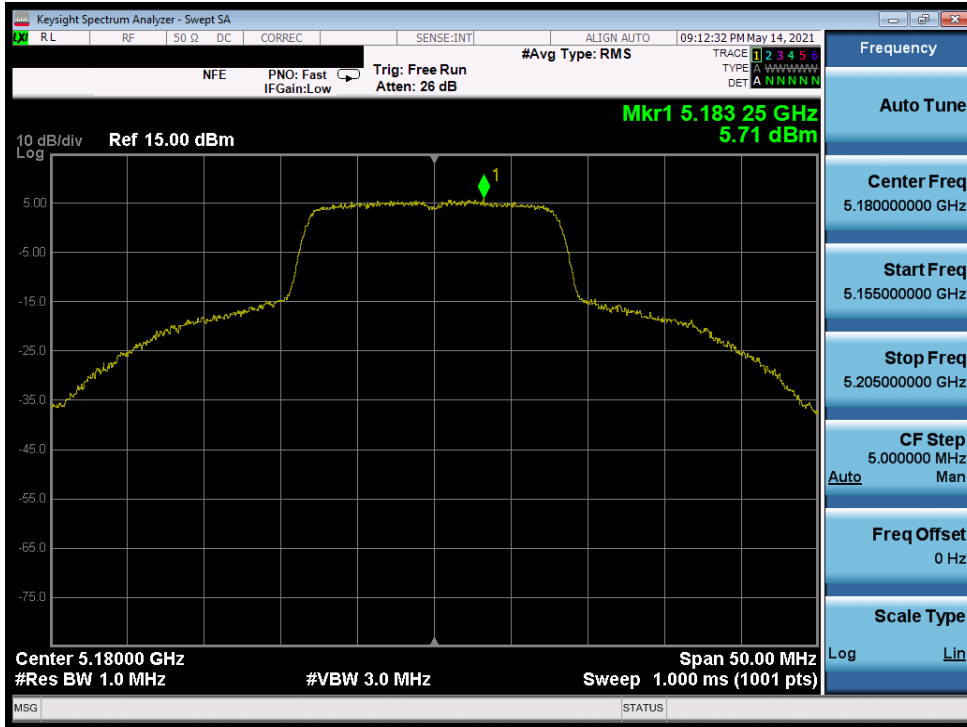
FCC ID: A3LSMF711B	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 310 of 508

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	4.80	5.69	8.28	30.0	-21.72
	5785	157	a	6	4.94	5.09	8.02	30.0	-21.98
	5825	165	a	6	5.27	5.14	8.22	30.0	-21.78
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	4.44	6.08	8.35	30.0	-21.65
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	4.63	5.00	7.83	30.0	-22.17
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	4.83	5.42	8.15	30.0	-21.85
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.46	5.71	8.14	30.0	-21.86
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	4.82	4.92	7.88	30.0	-22.12
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	4.89	5.05	7.98	30.0	-22.02
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.73	2.58	4.76	30.0	-25.24
	5795	159	n (40MHz)	13.5/15 (MCS0)	0.95	1.96	4.49	30.0	-25.51
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.67	2.56	4.73	30.0	-25.27
	5795	159	ax (40MHz)	13.5/15 (MCS0)	1.02	1.93	4.51	30.0	-25.49
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	0.22	1.07	3.68	30.0	-26.32
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.38	1.06	3.41	30.0	-26.59

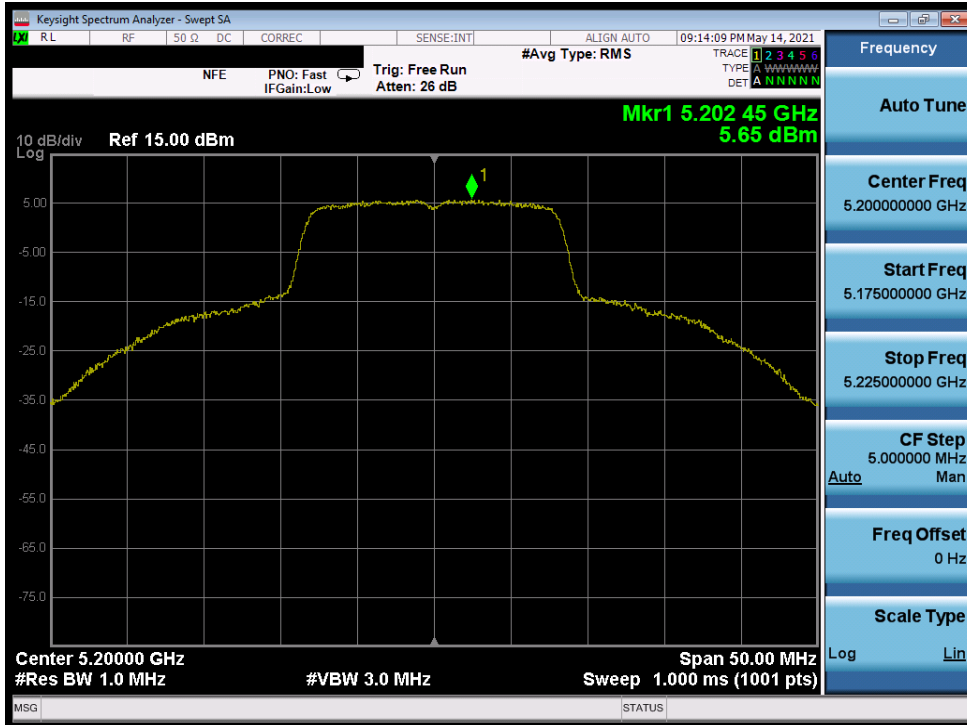
Table 7-41. Band 3 MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMF711B	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 311 of 508

MIMO Antenna-1 Band 1, 2A, 2C Power Spectral Density Measurements - Q

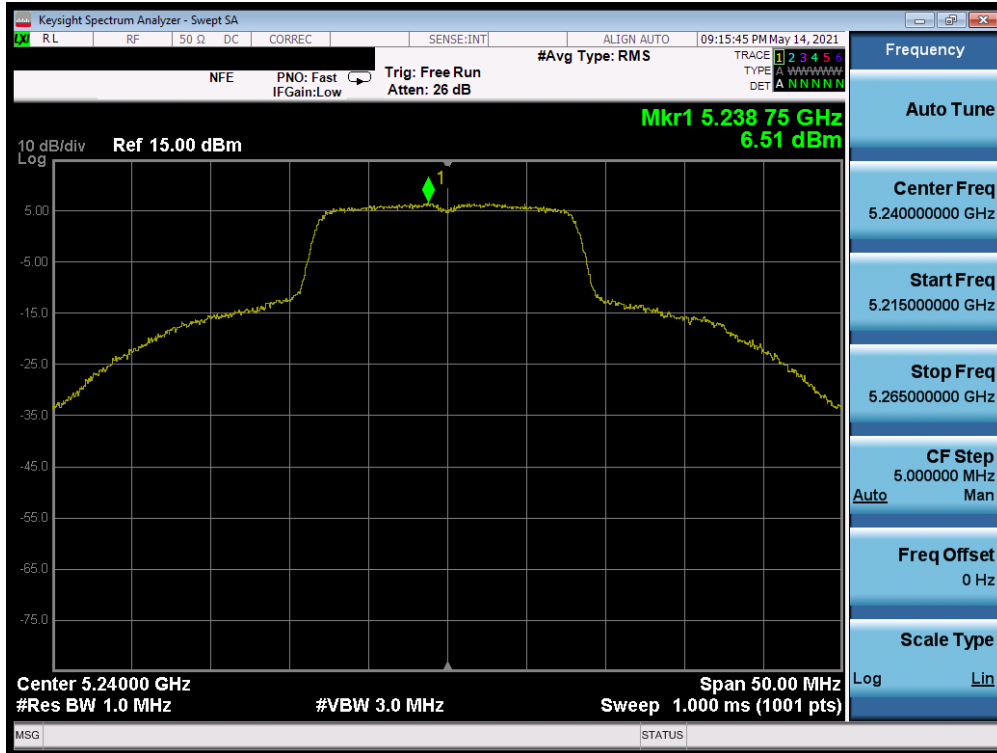


Plot 7-529. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) – Ch. 36)

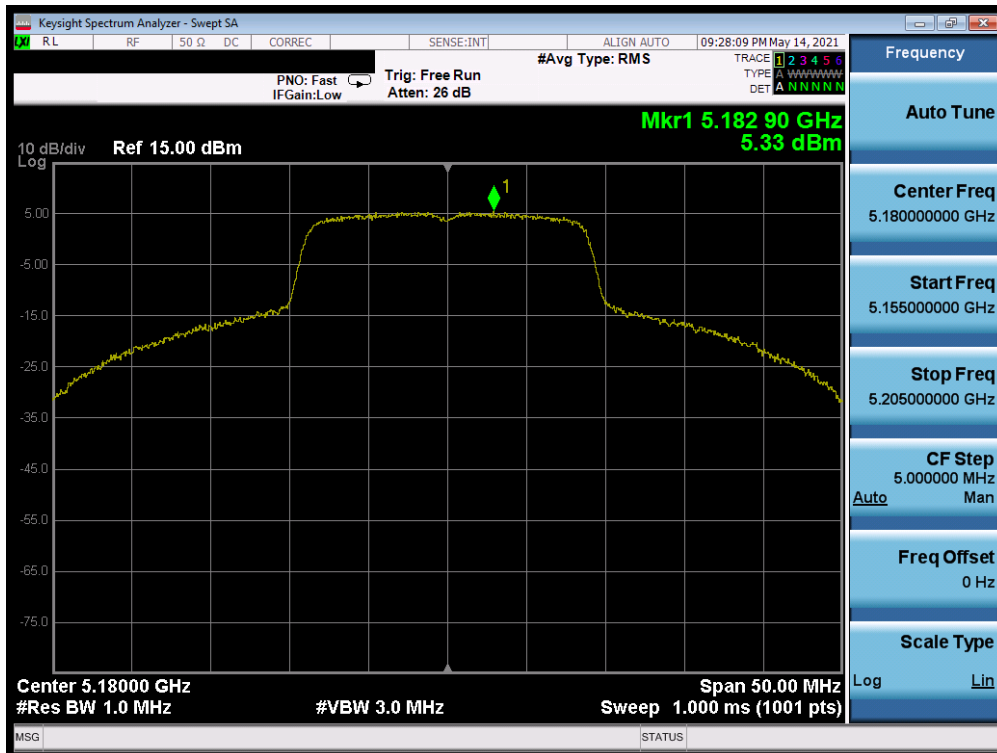


Plot 7-530. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 312 of 508

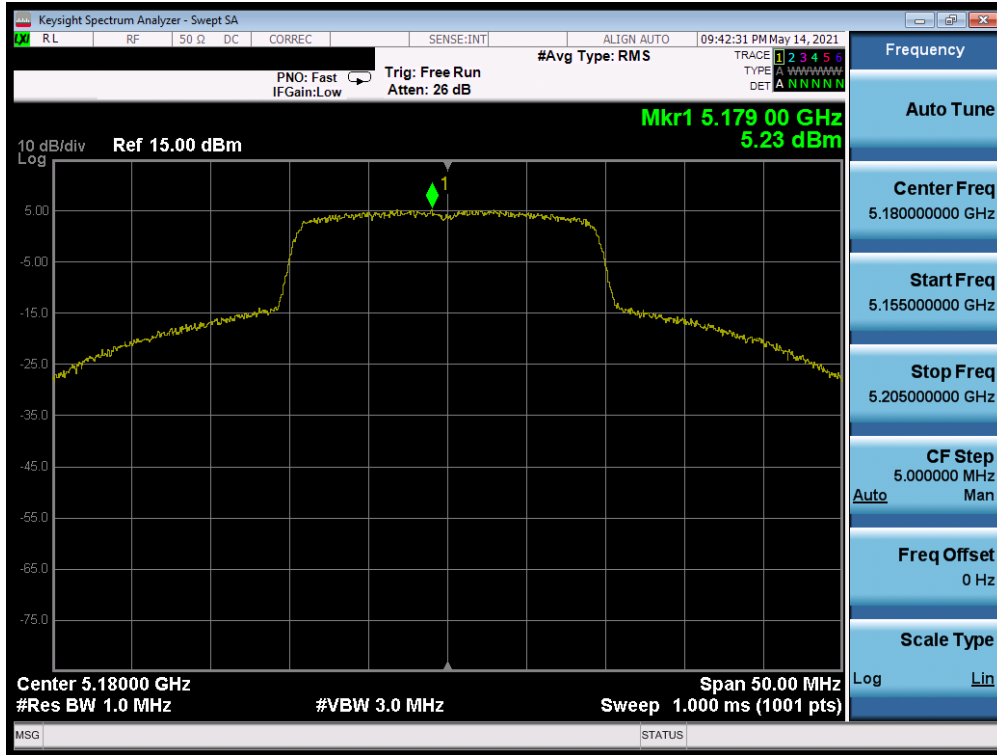


Plot 7-531. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) – Ch. 48)

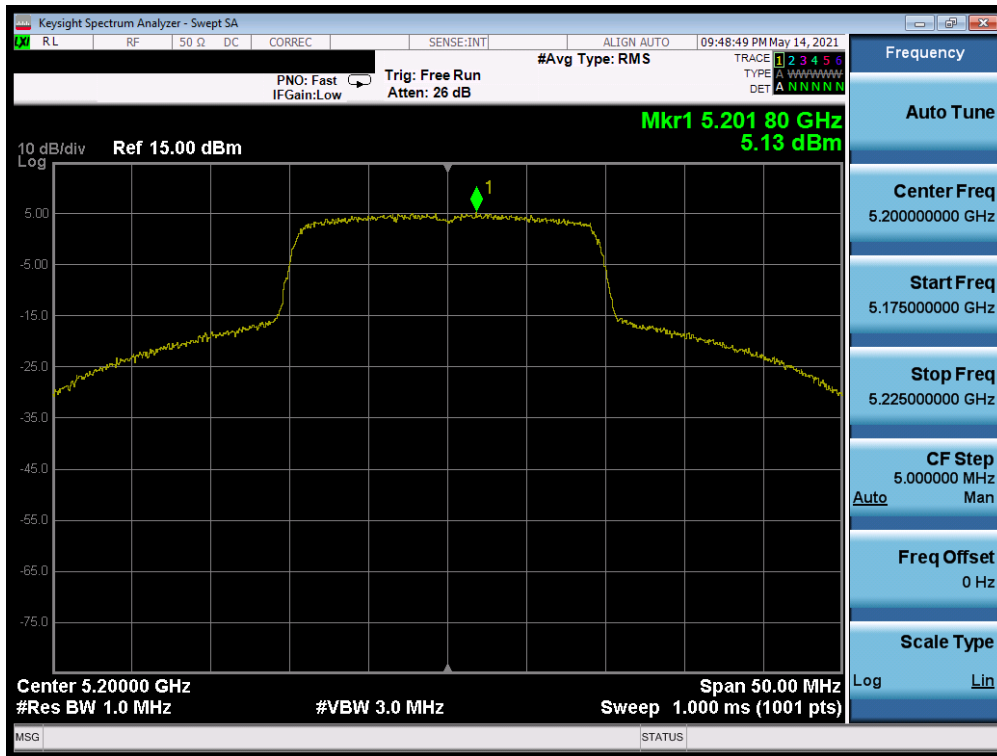


Plot 7-532. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 313 of 508

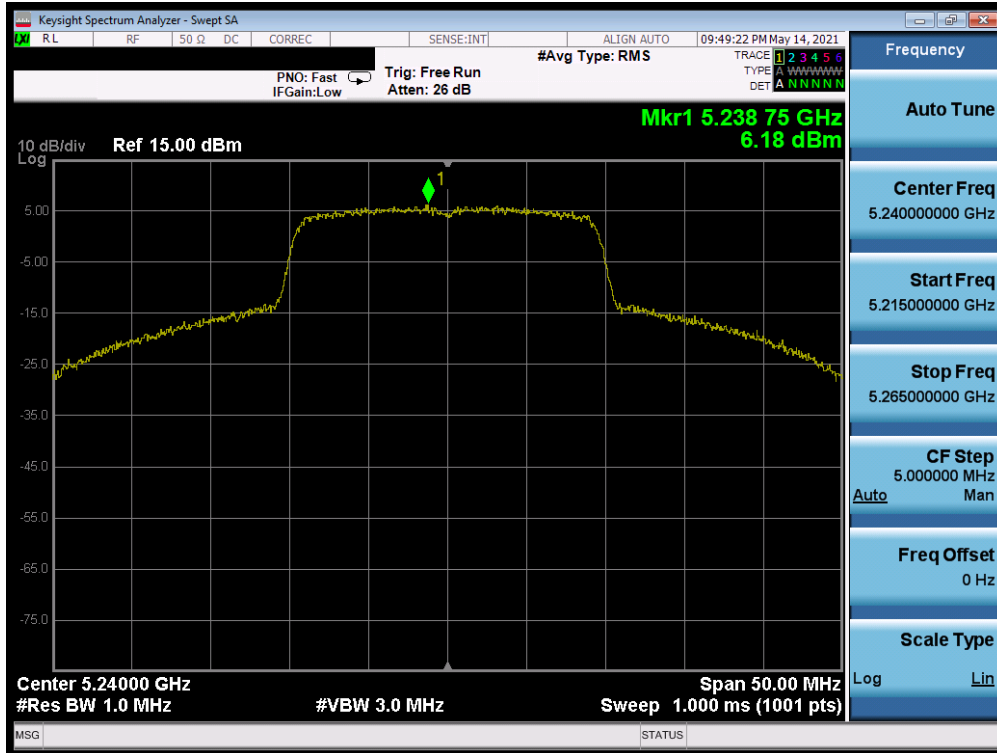


Plot 7-535. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)

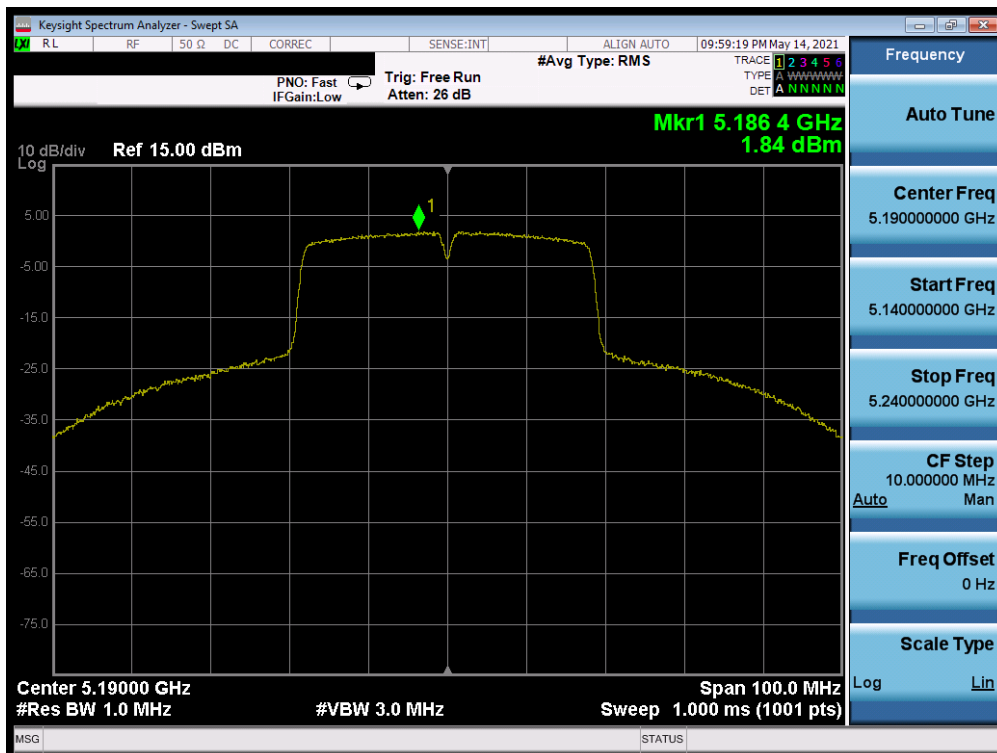


Plot 7-536. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 315 of 508

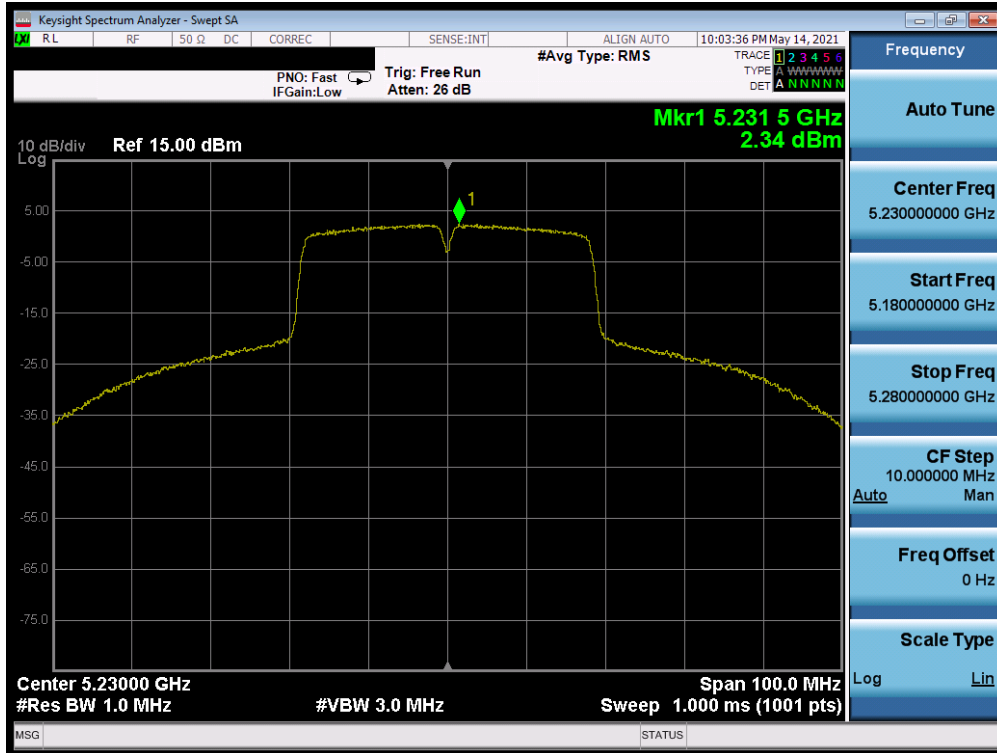


Plot 7-537. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

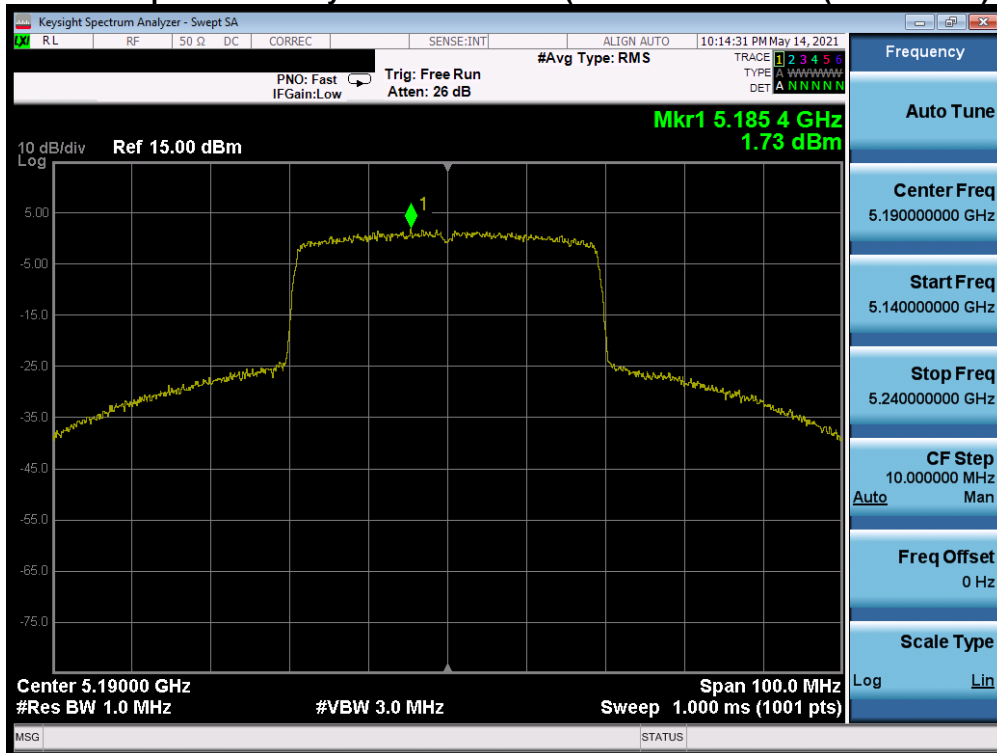


Plot 7-538. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 316 of 508

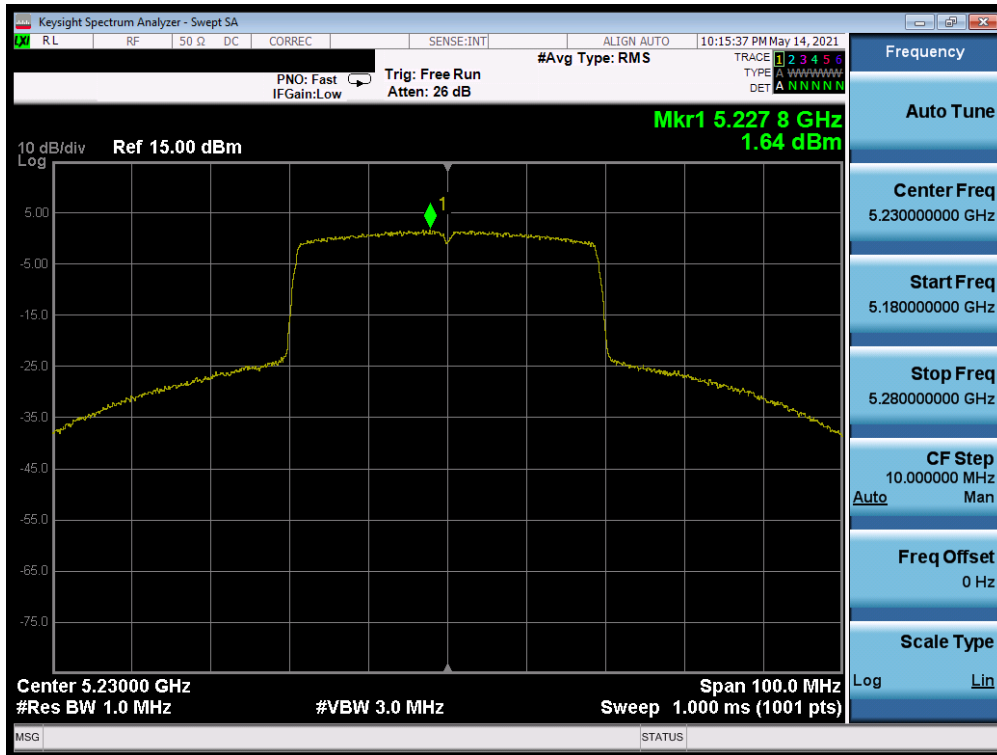


Plot 7-539. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

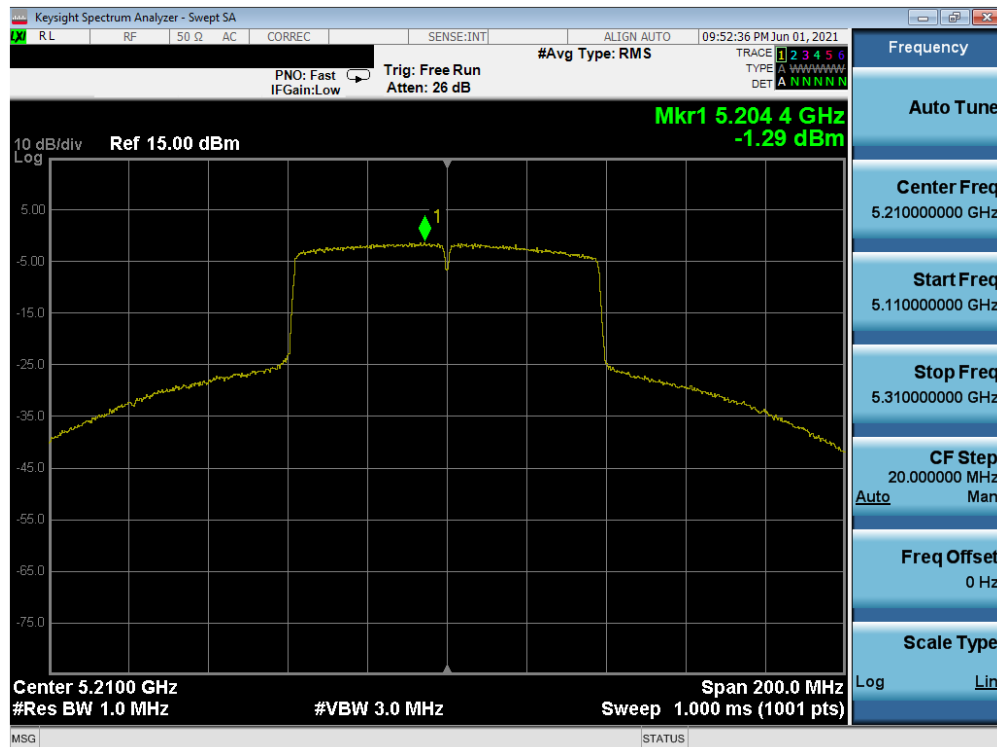


Plot 7-540. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 317 of 508

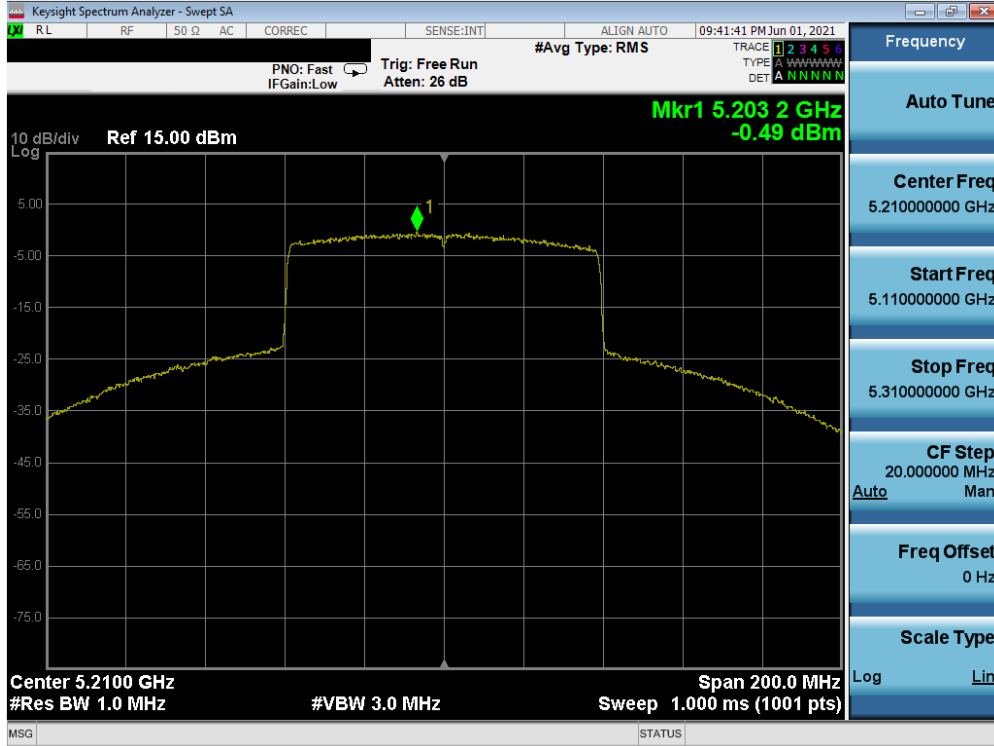


Plot 7-541. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

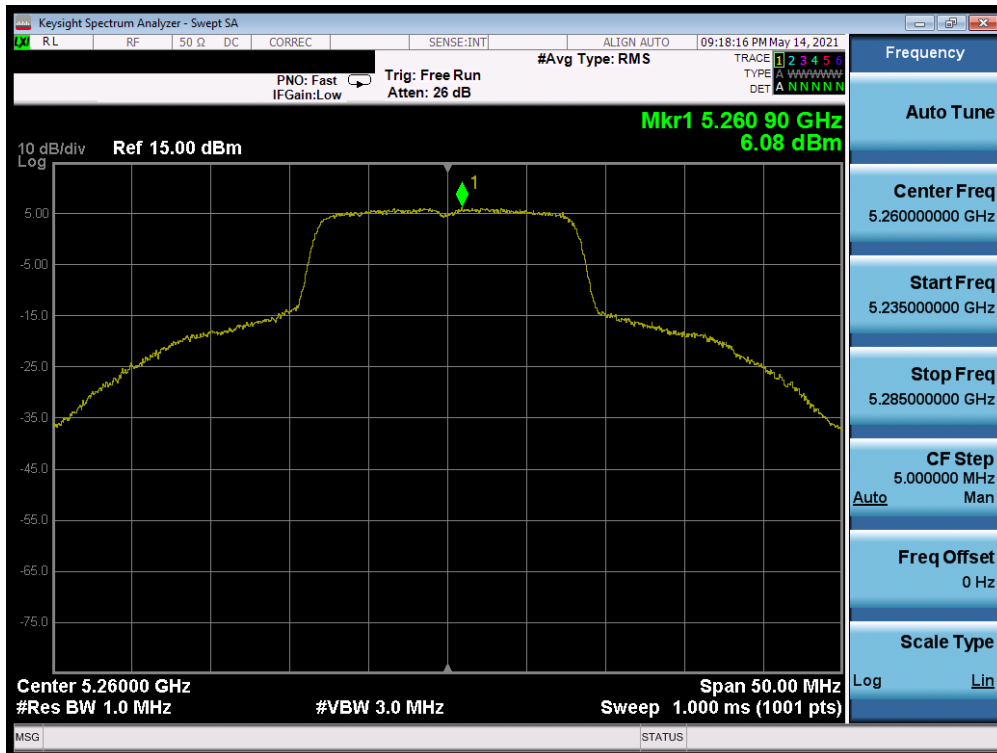


Plot 7-542. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 318 of 508

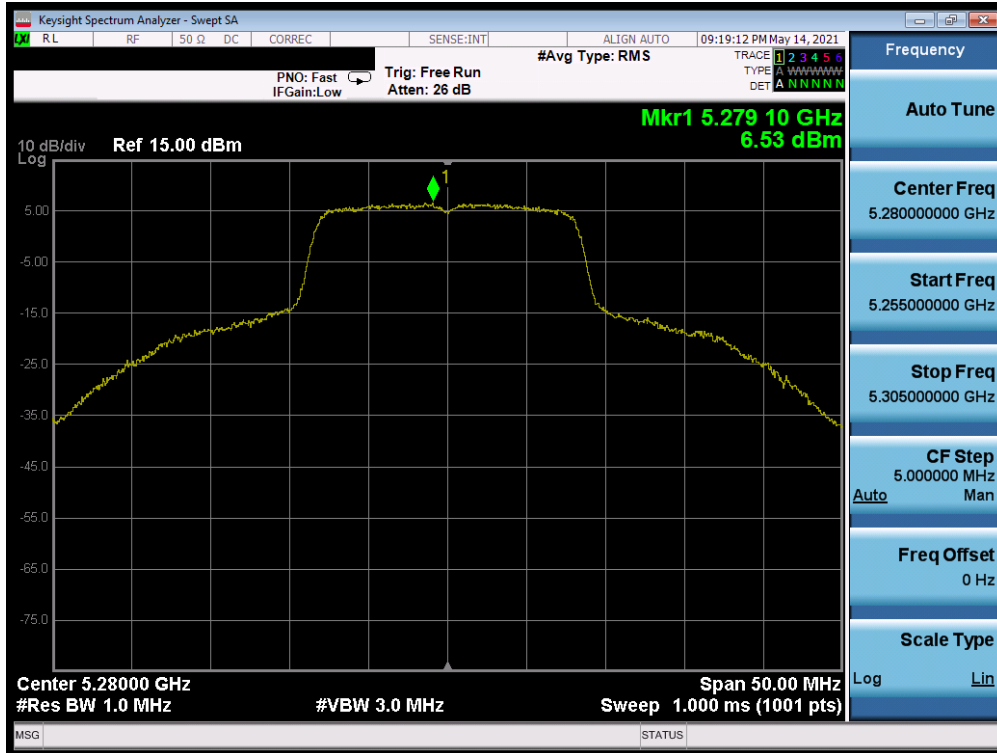


Plot 7-543. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

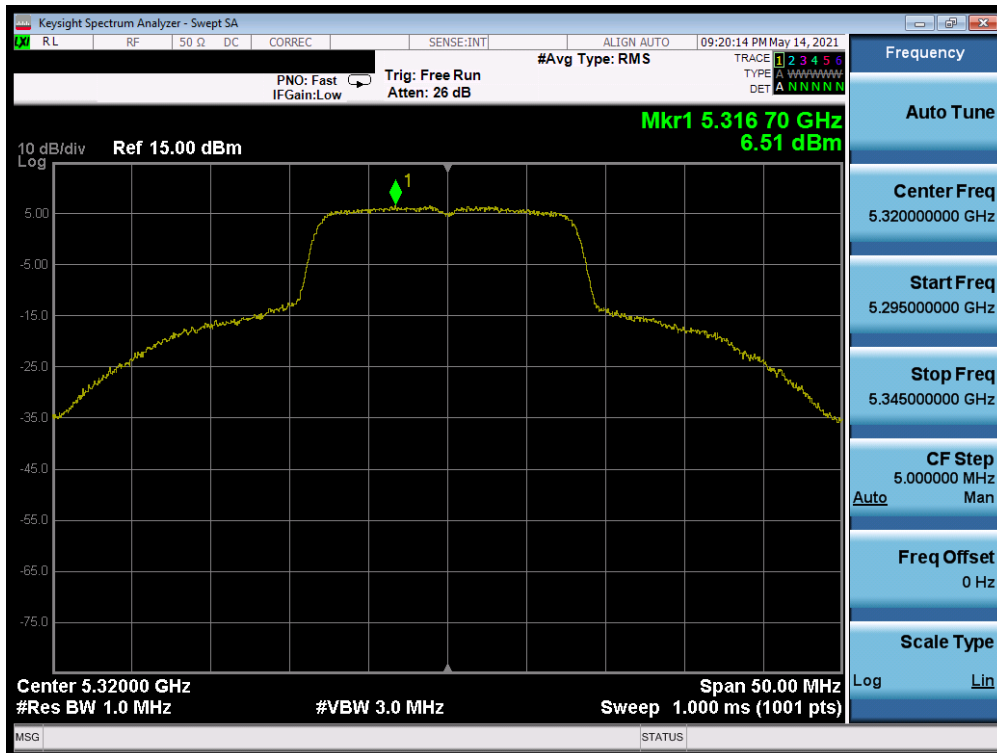


Plot 7-544. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 319 of 508

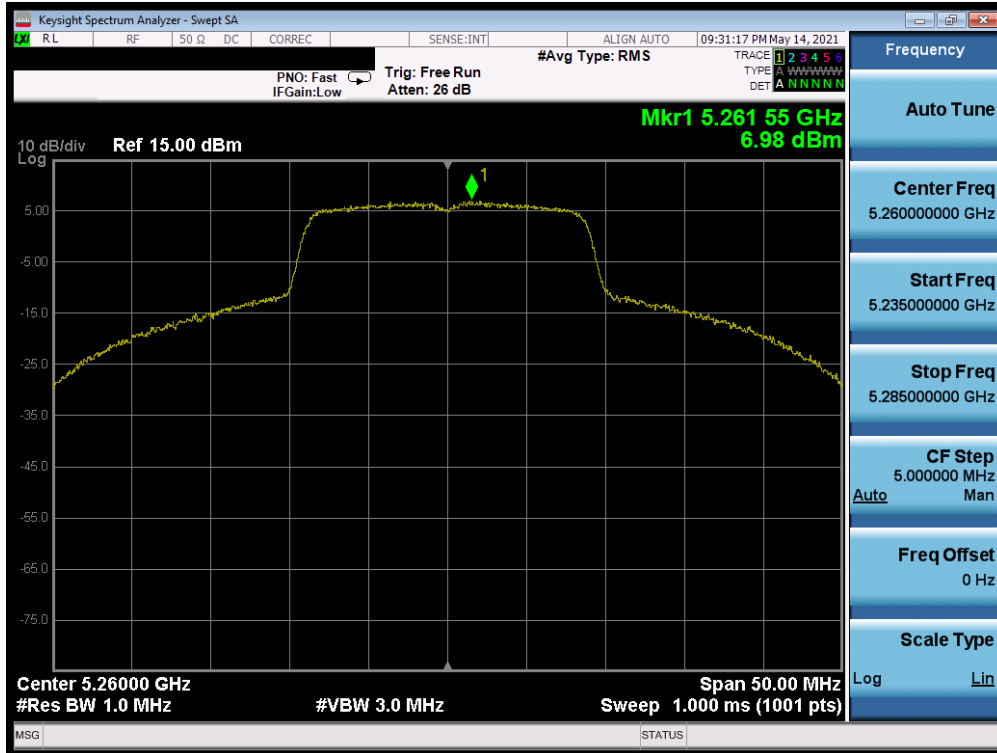


Plot 7-545. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) – Ch. 56)

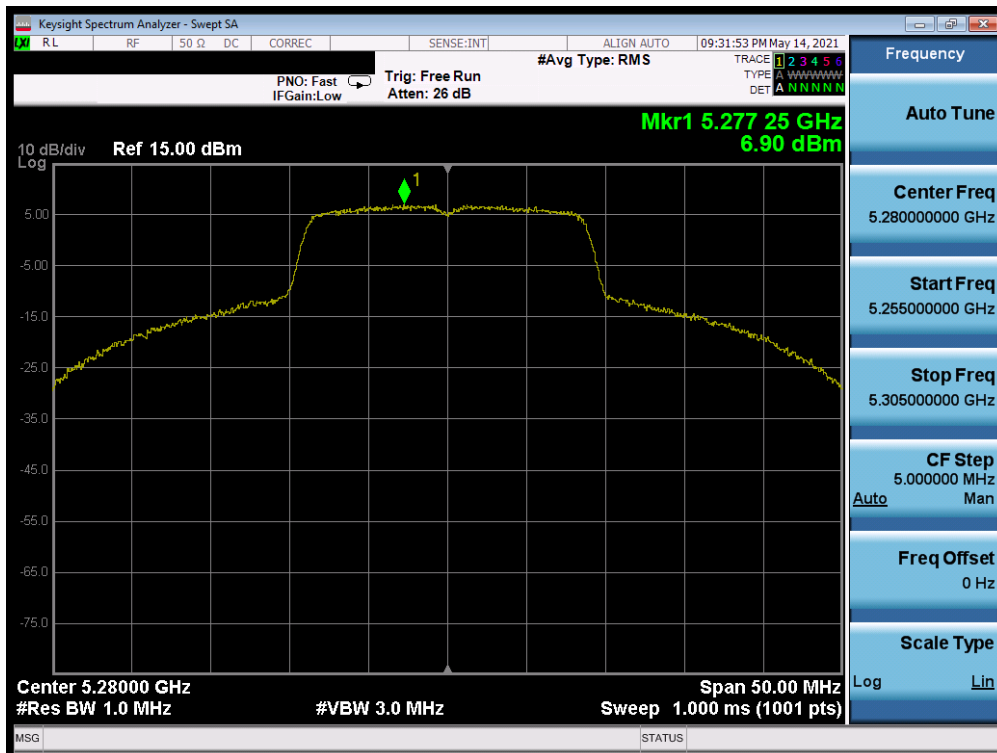


Plot 7-546. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 320 of 508

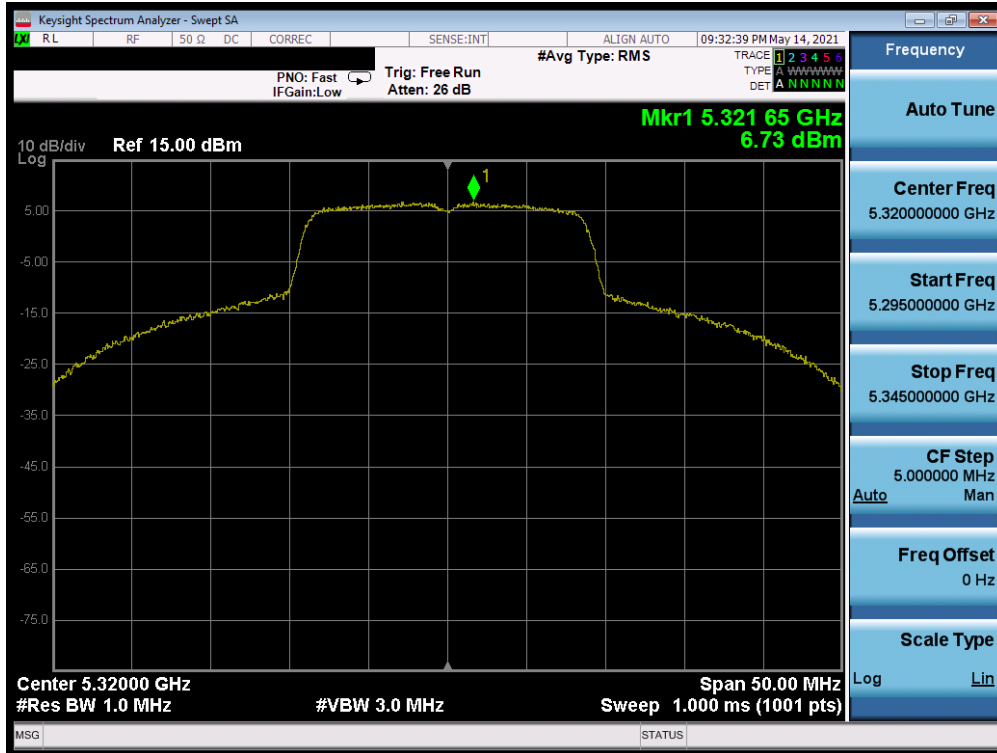


Plot 7-547. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

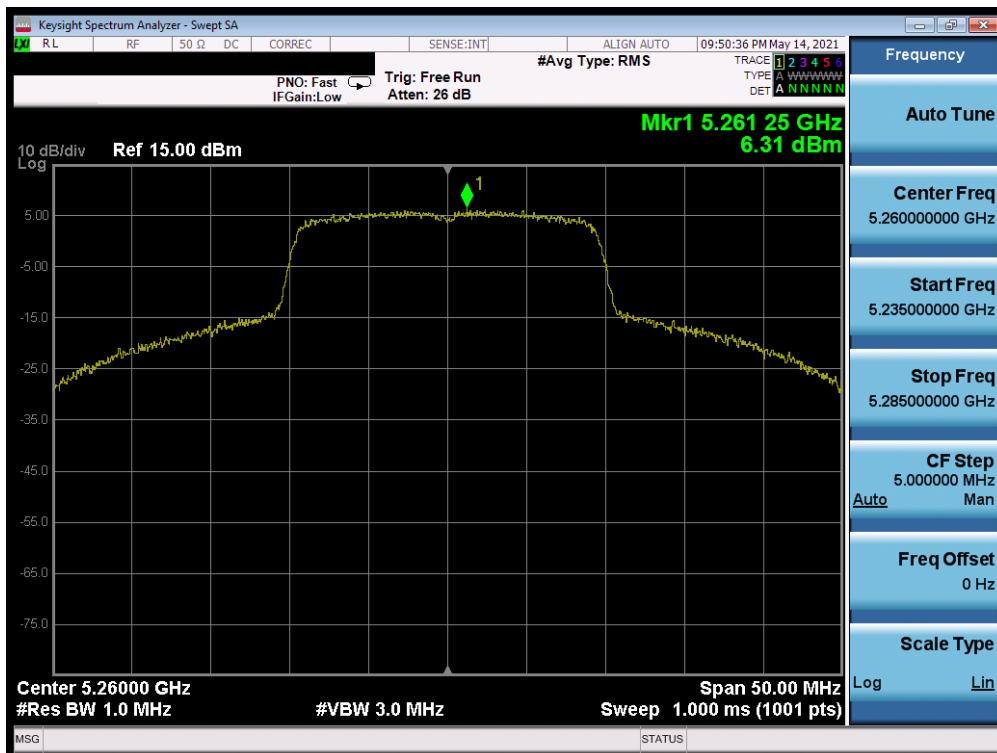


Plot 7-548. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 321 of 508

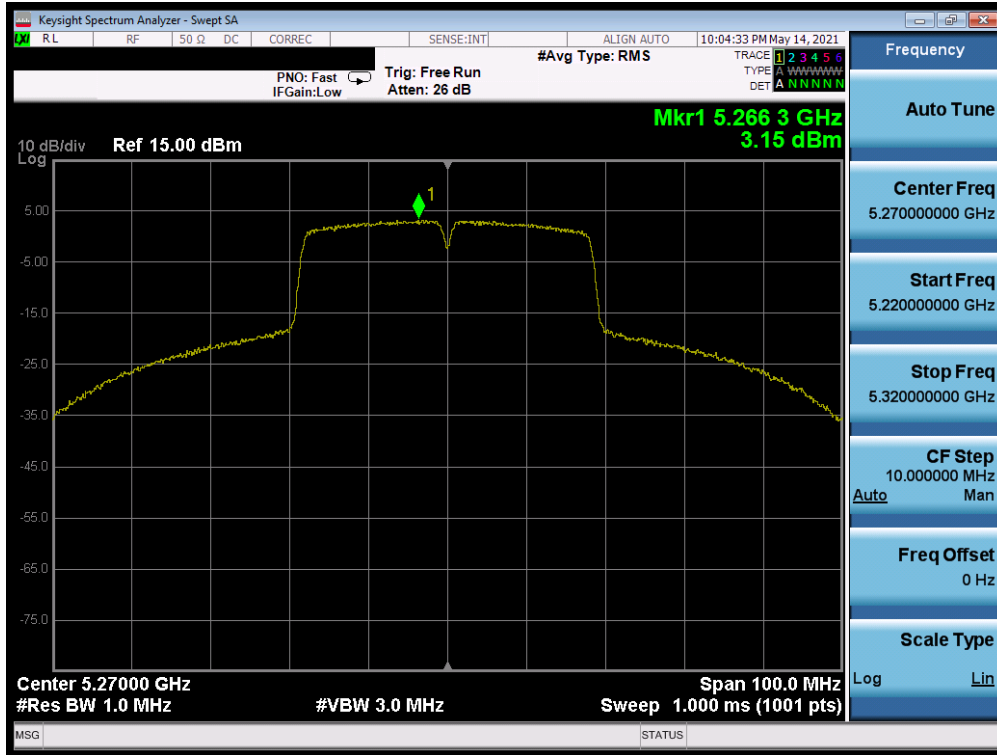


Plot 7-549. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)



Plot 7-550. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 322 of 508

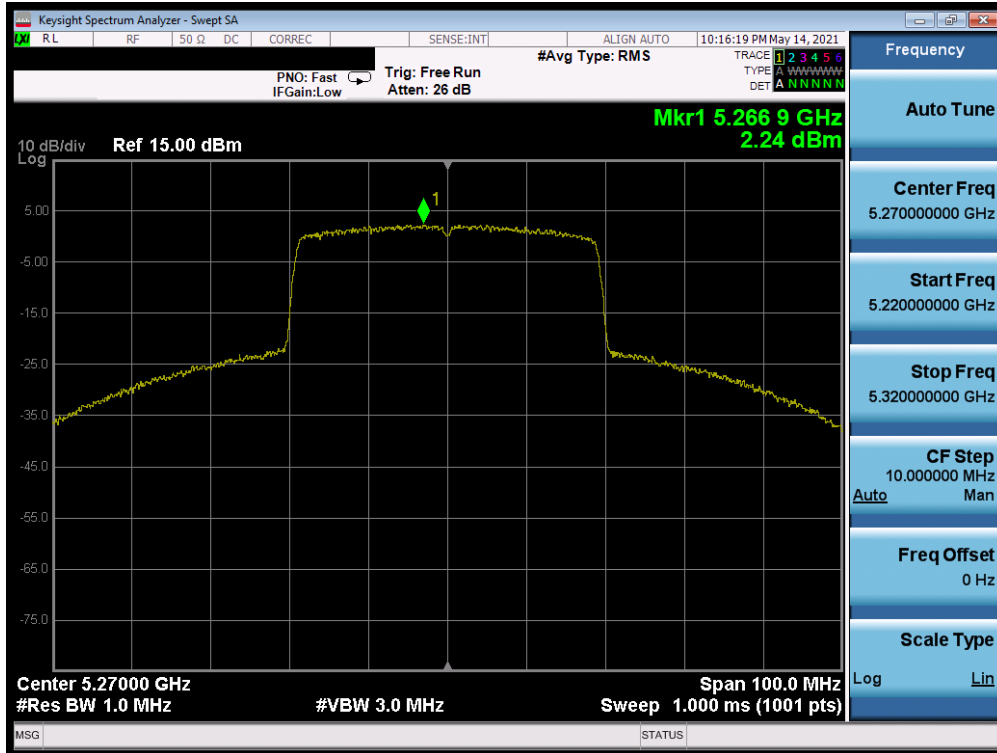


Plot 7-553. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

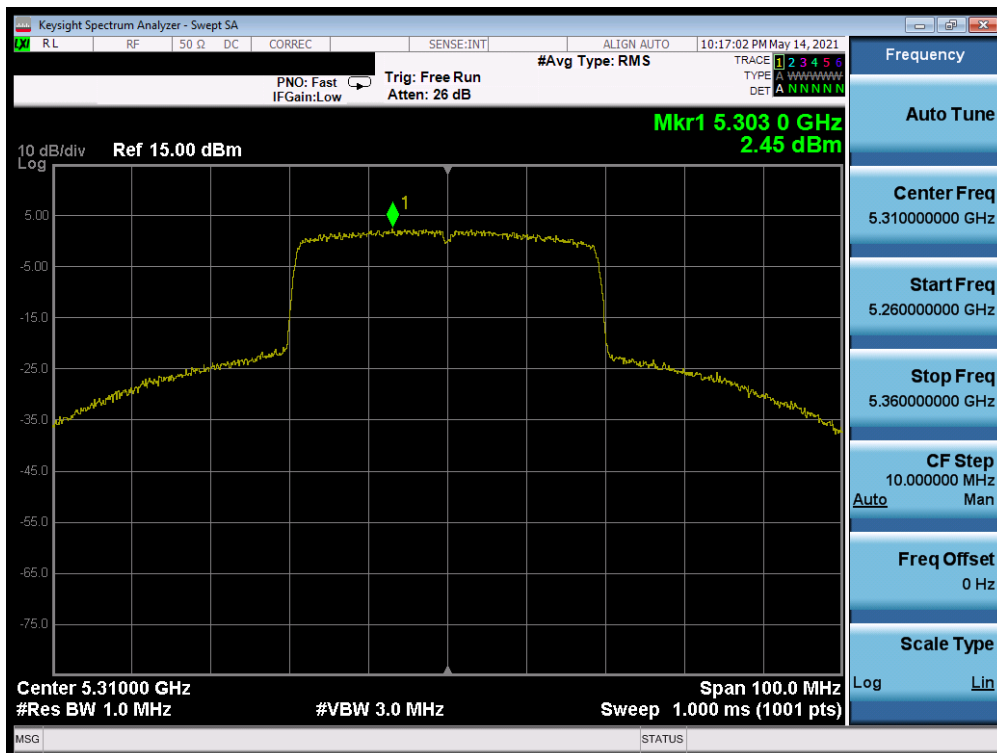


Plot 7-554. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 324 of 508

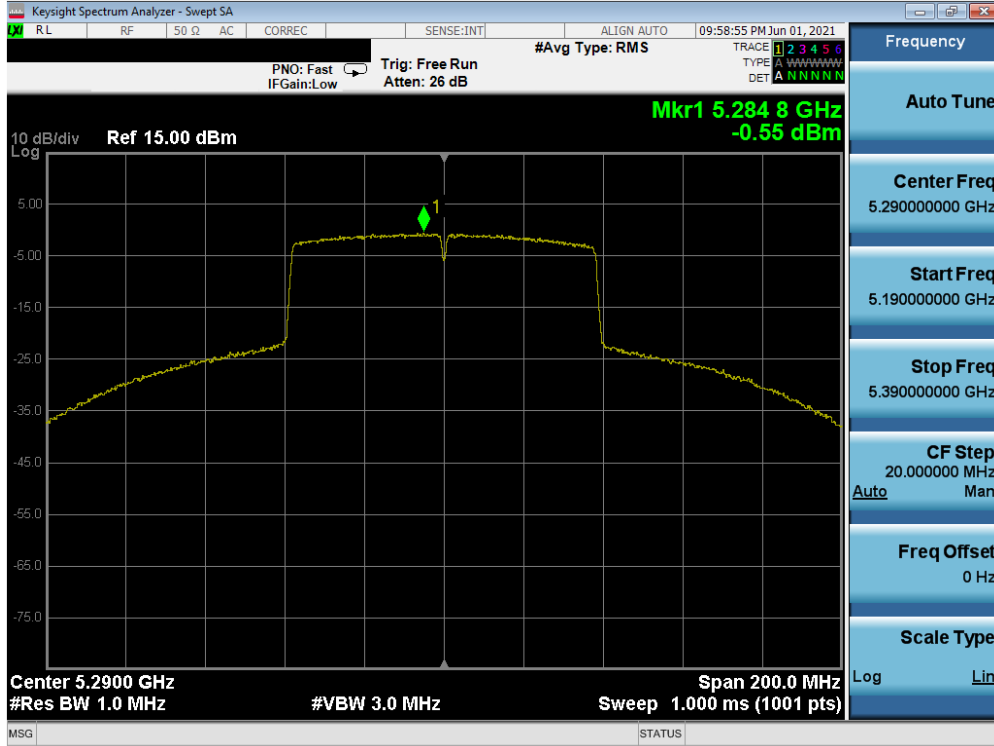


Plot 7-555. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

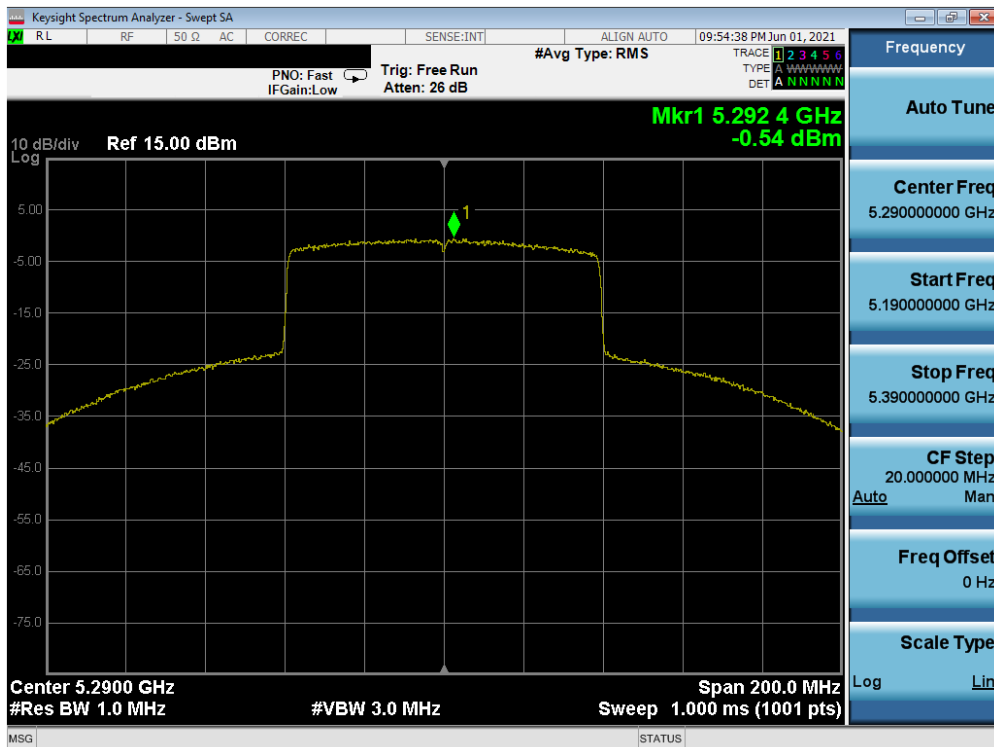


Plot 7-556. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 325 of 508

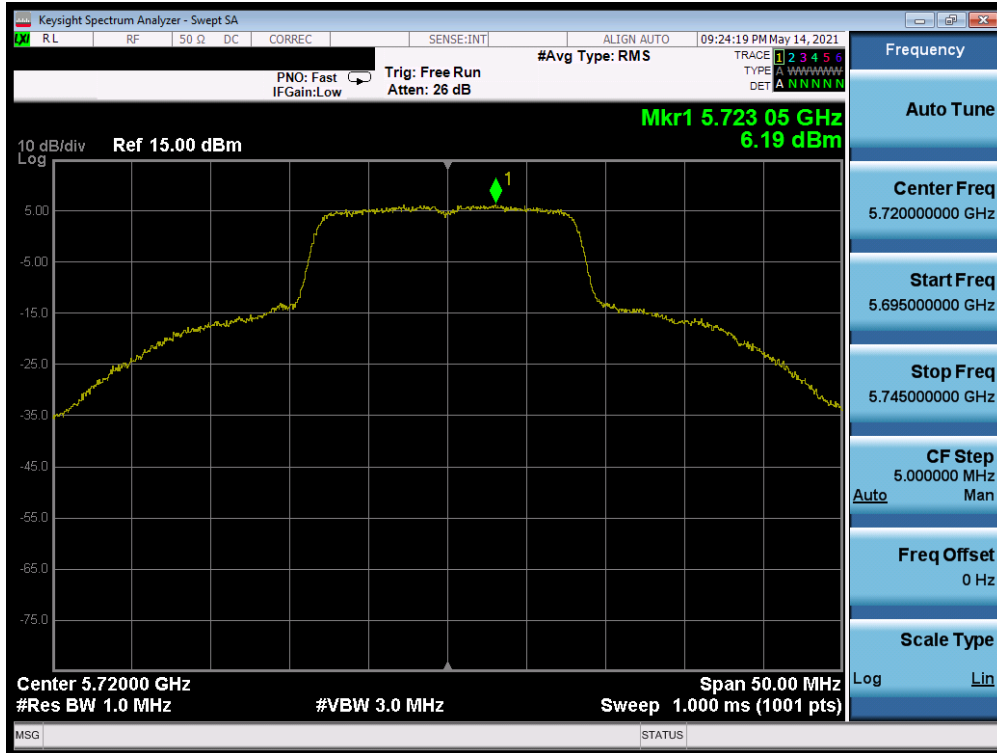


Plot 7-557. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

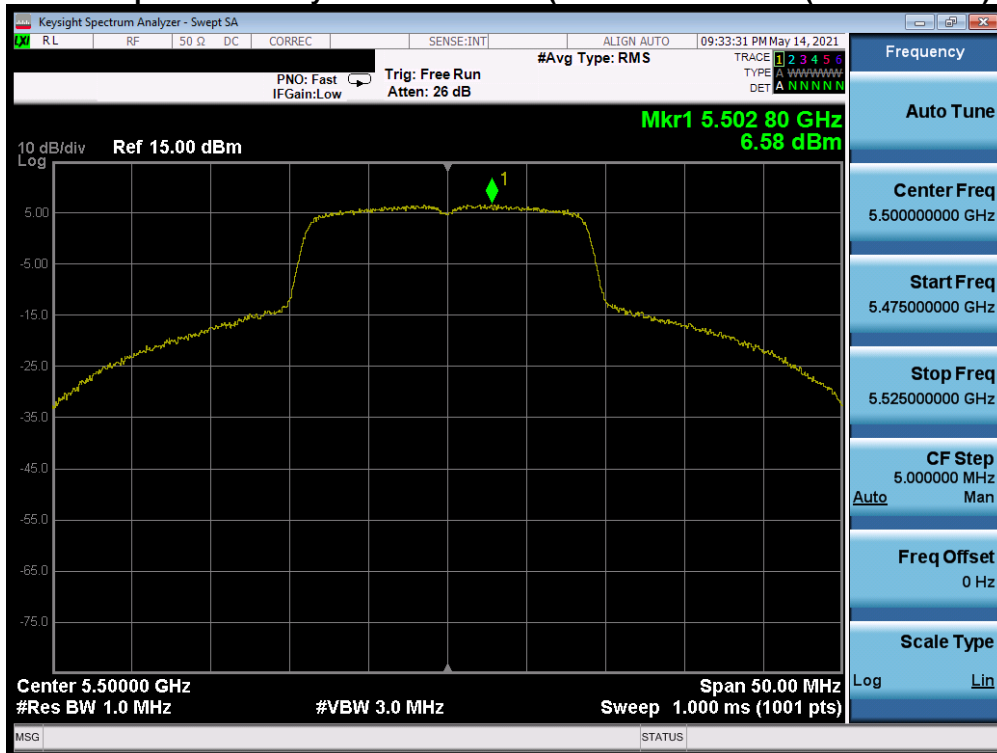


Plot 7-558. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 326 of 508

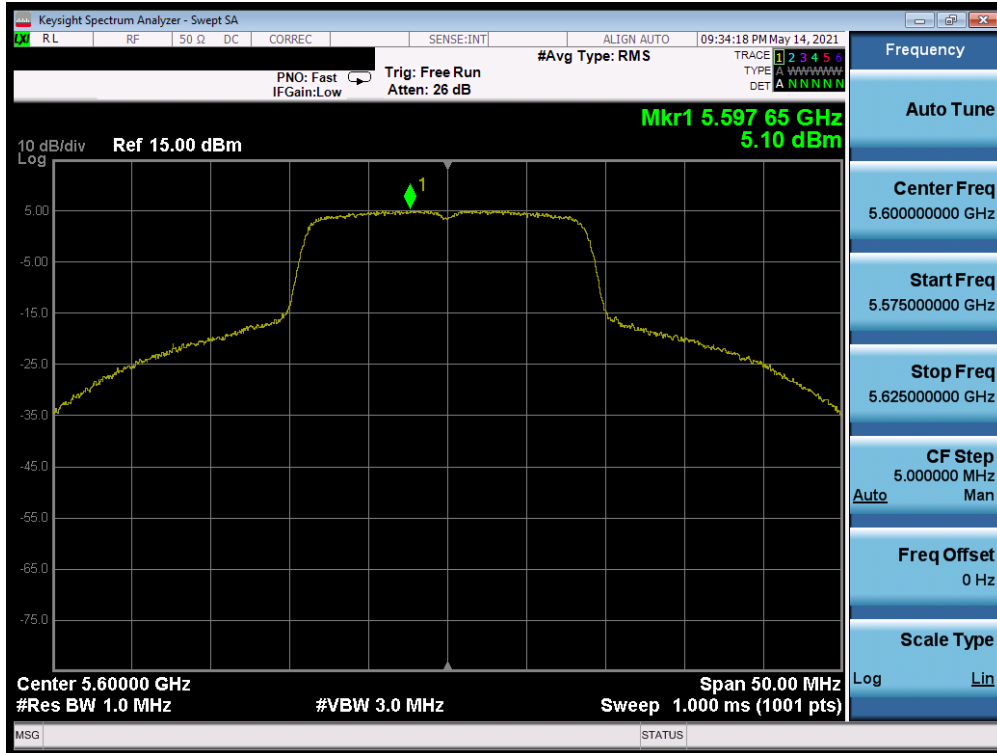


Plot 7-561. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2C) – Ch. 144)

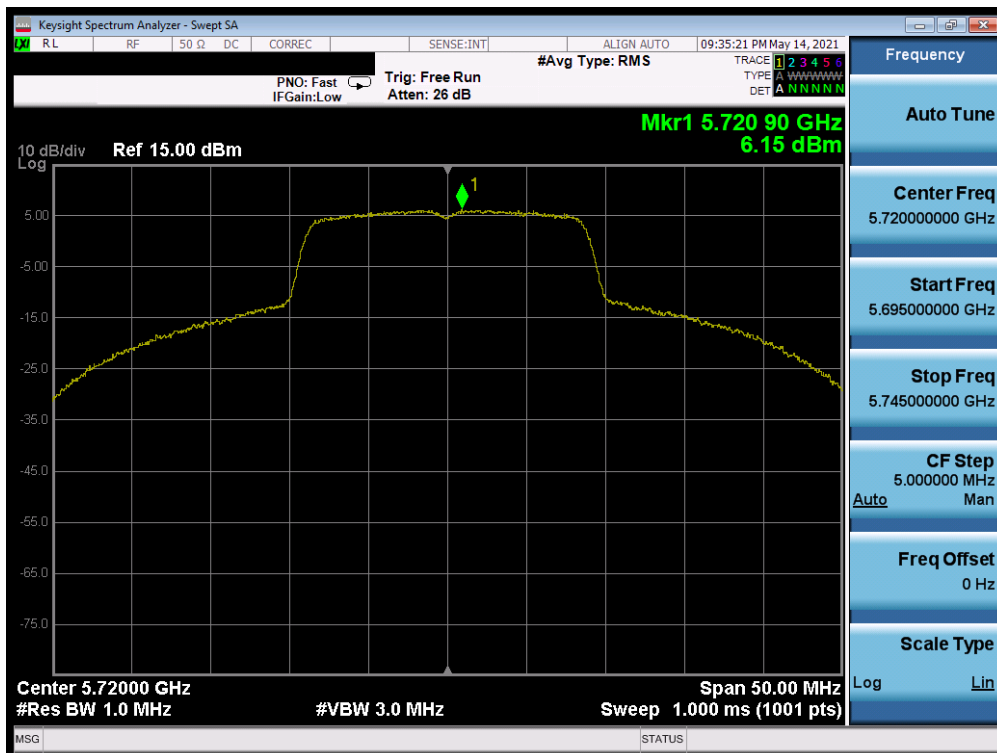


Plot 7-562. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 328 of 508

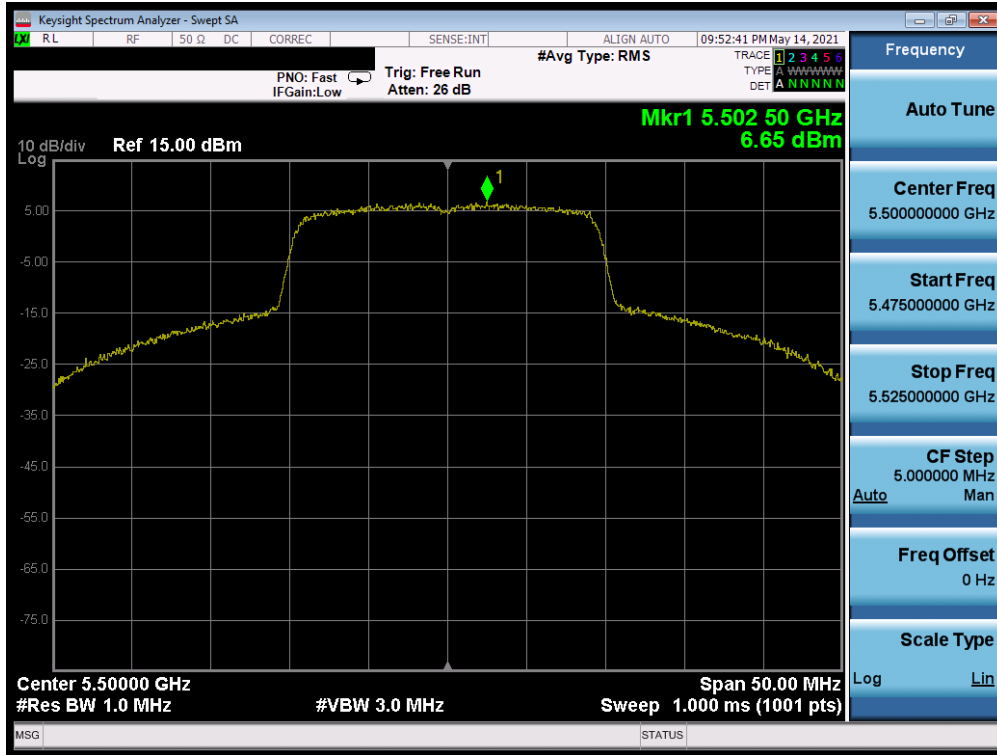


Plot 7-563. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

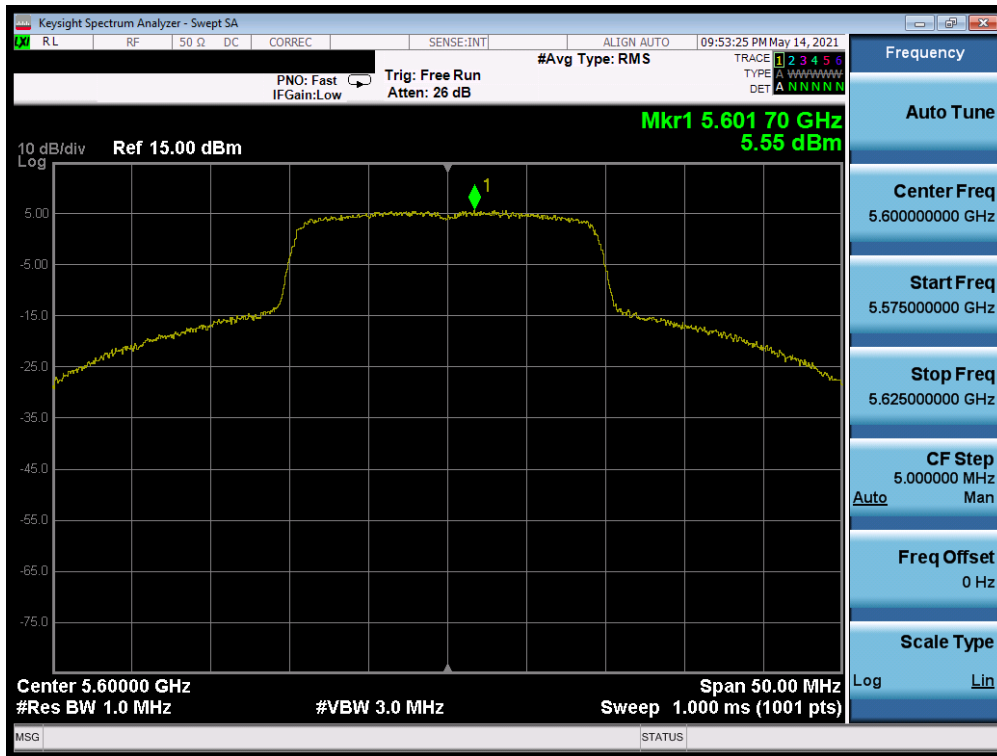


Plot 7-564. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 329 of 508

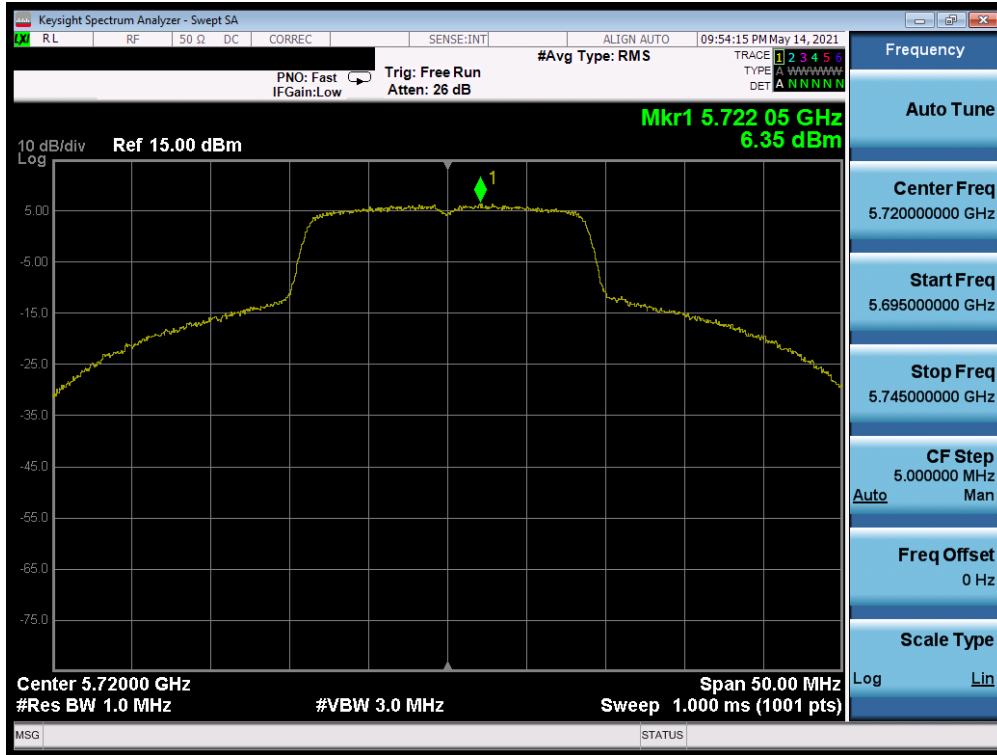


Plot 7-565. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

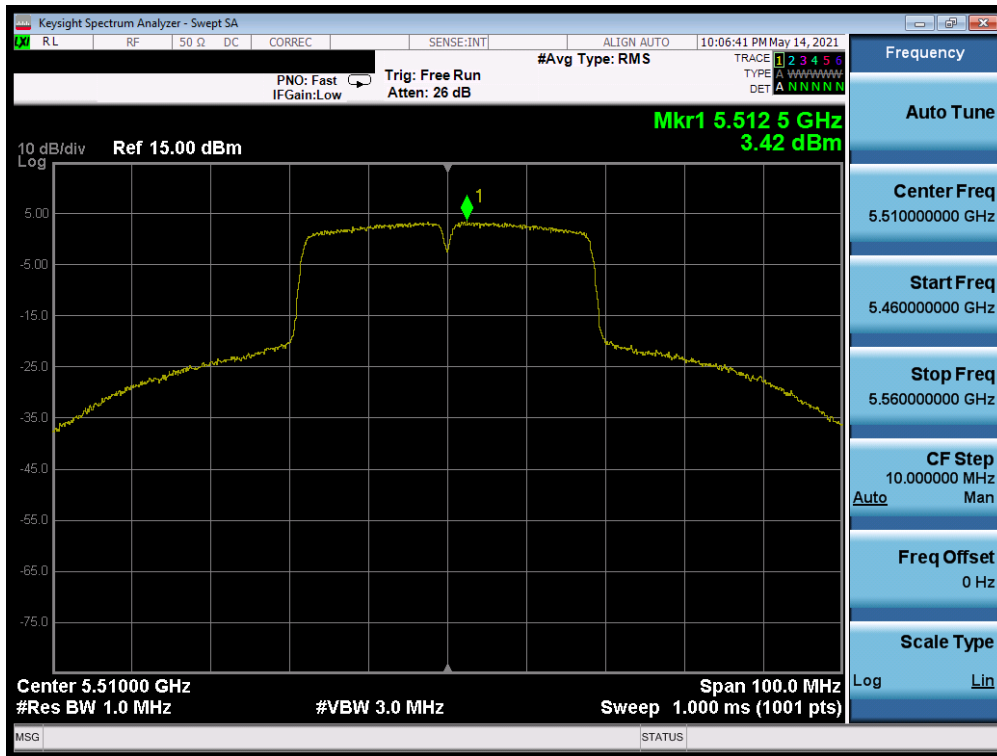


Plot 7-566. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 330 of 508

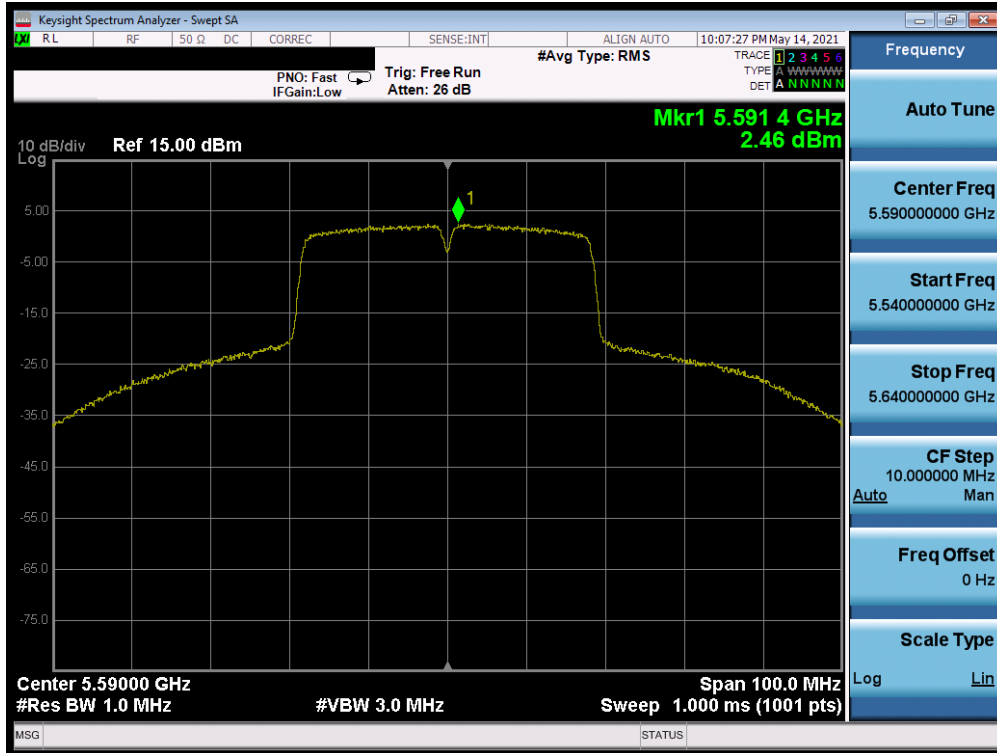


Plot 7-567. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

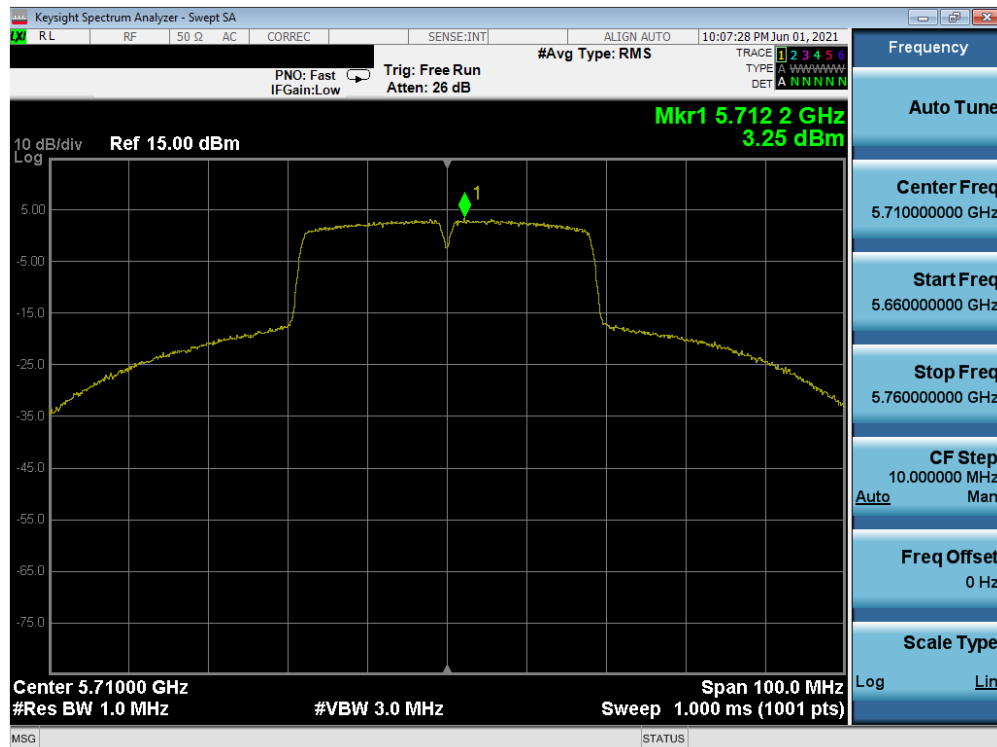


Plot 7-568. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 331 of 508

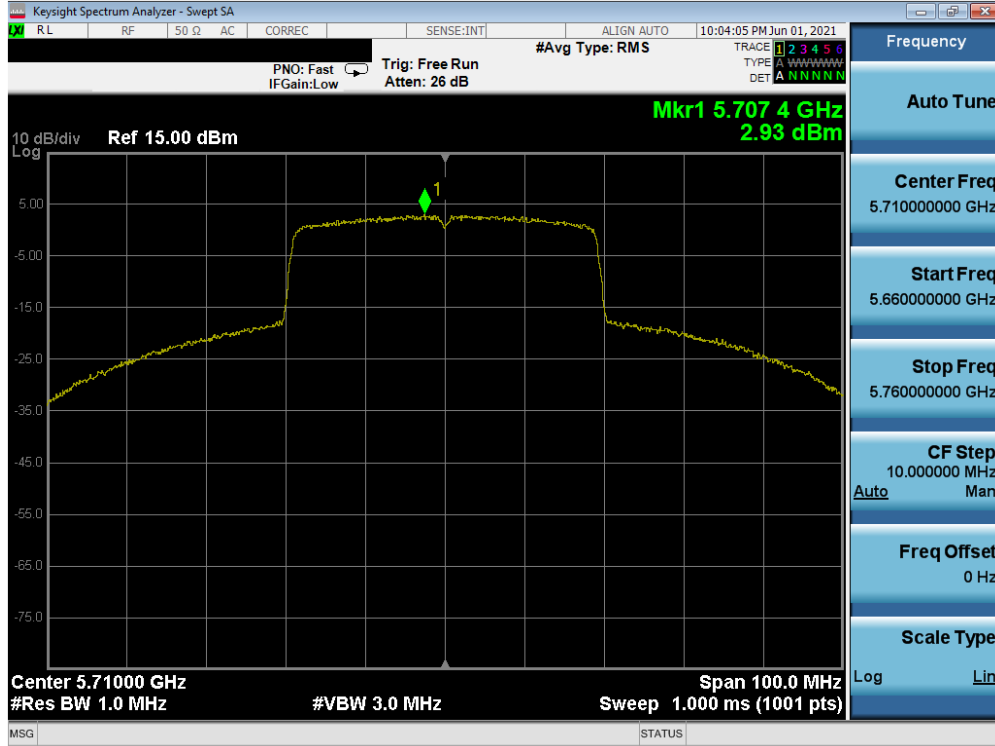


Plot 7-569. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

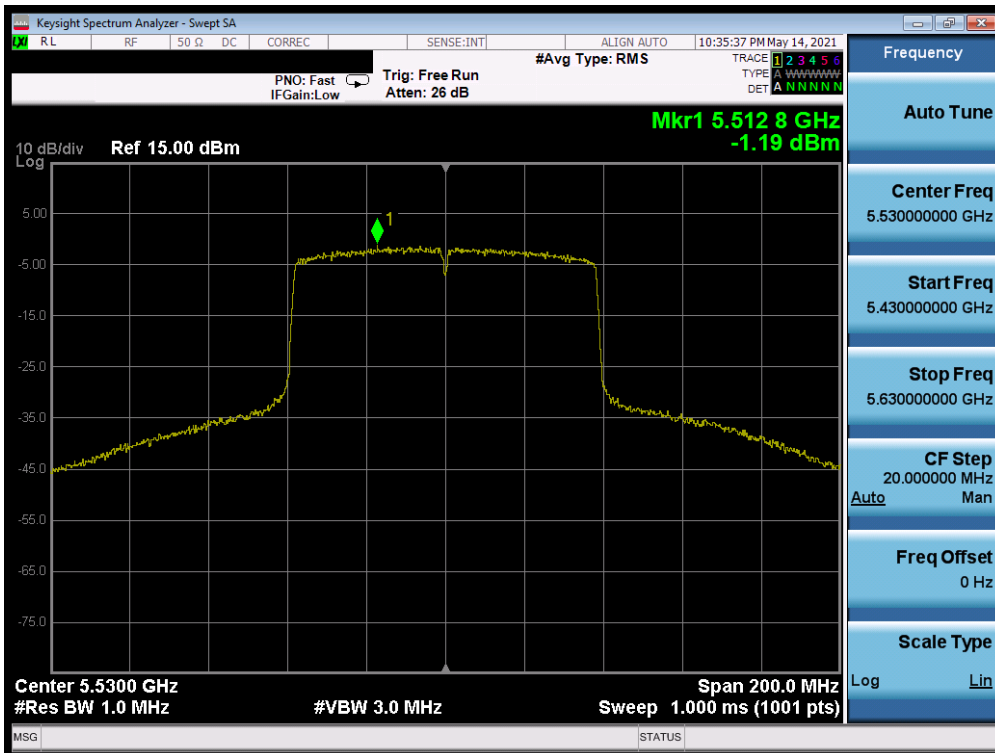


Plot 7-570. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 332 of 508

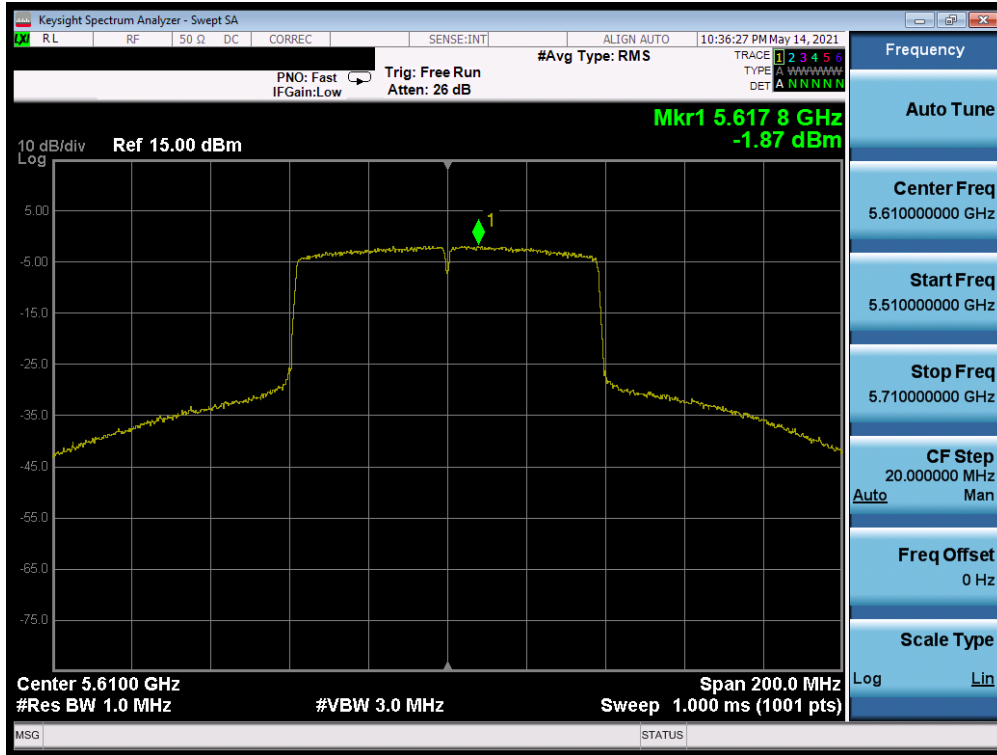


Plot 7-573. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

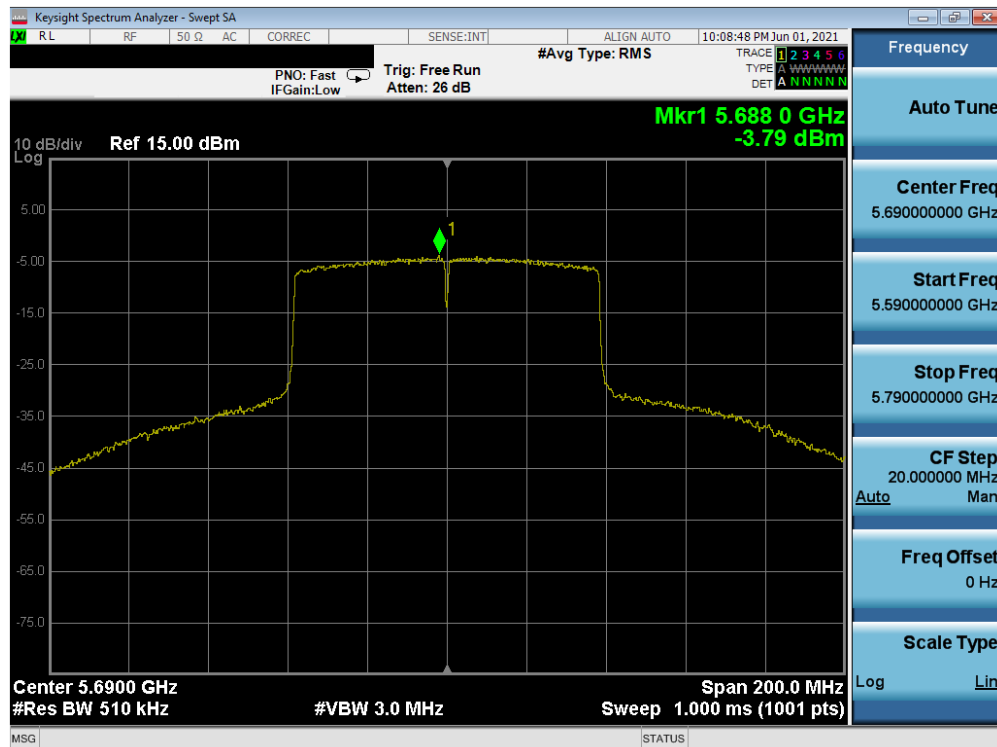


Plot 7-574. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 334 of 508

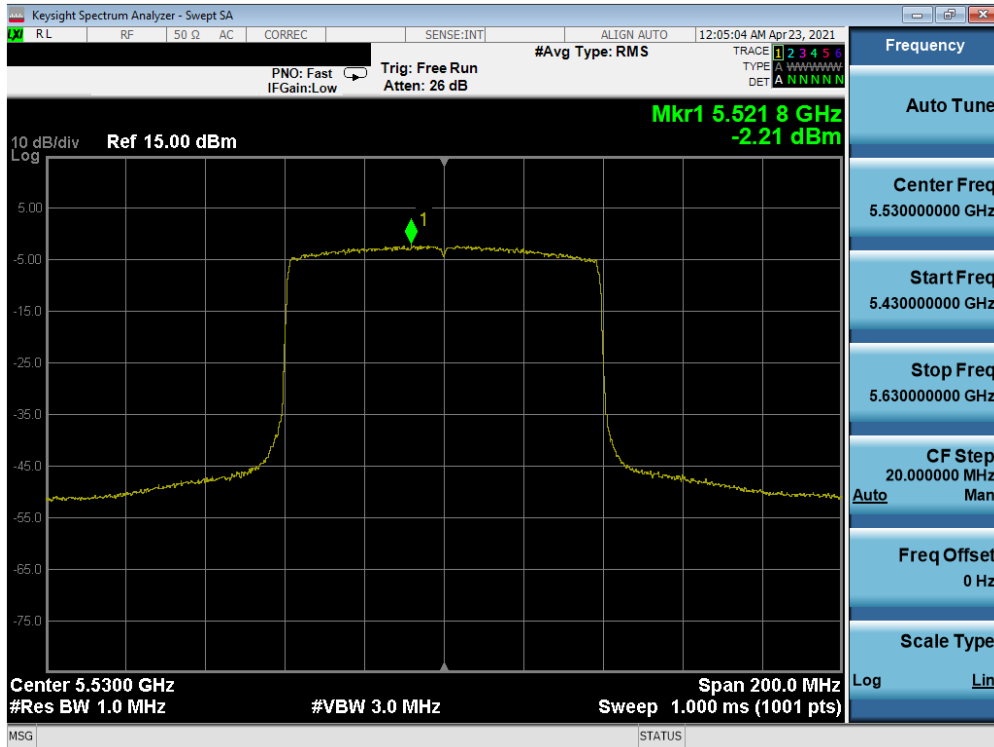


Plot 7-575. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

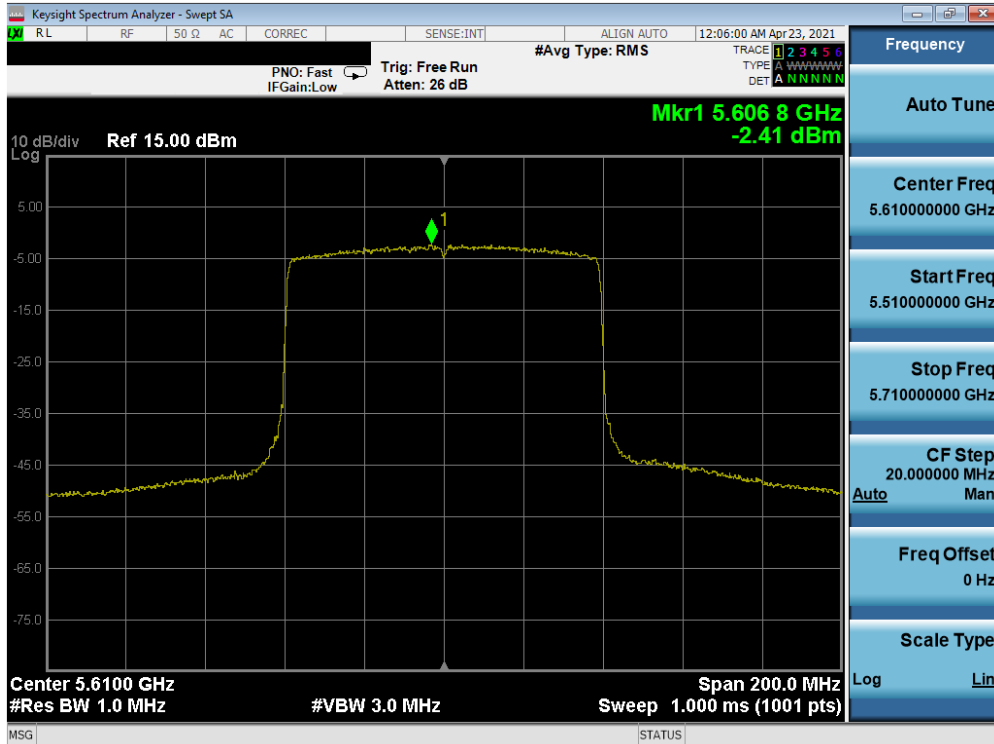


Plot 7-576. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 335 of 508

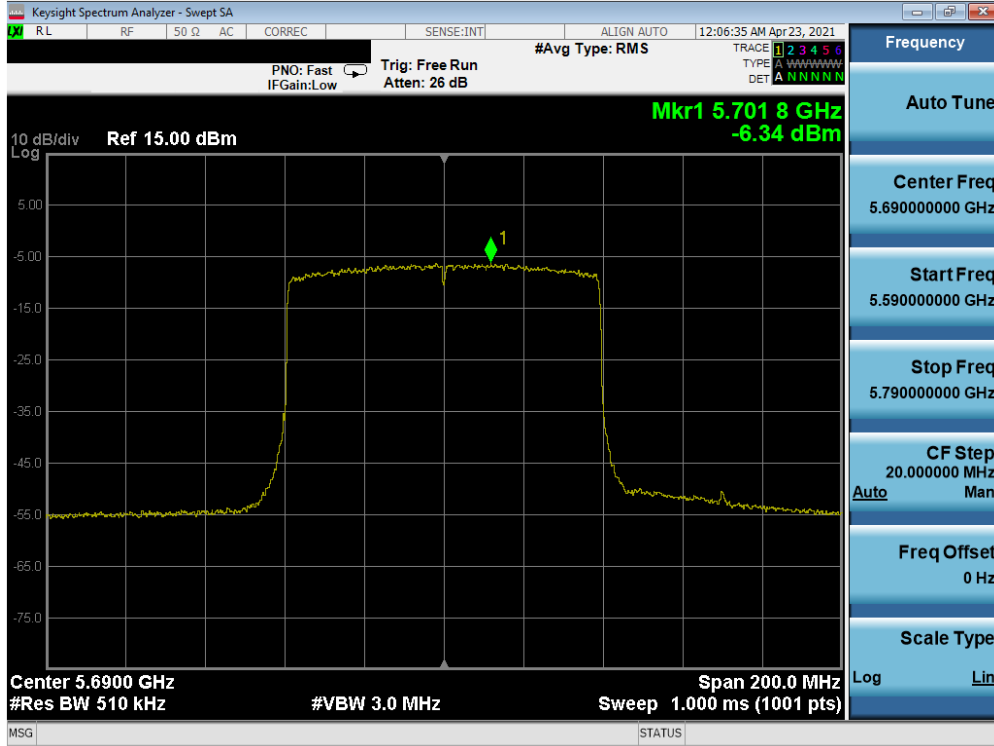


Plot 7-577. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)



Plot 7-578. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

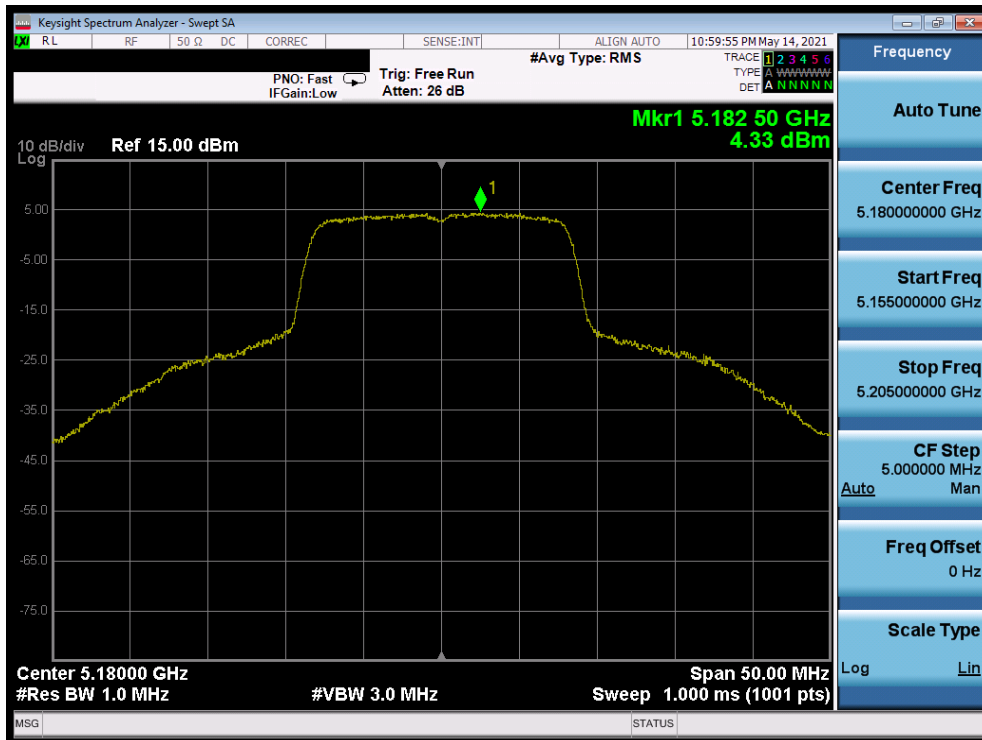
FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 336 of 508



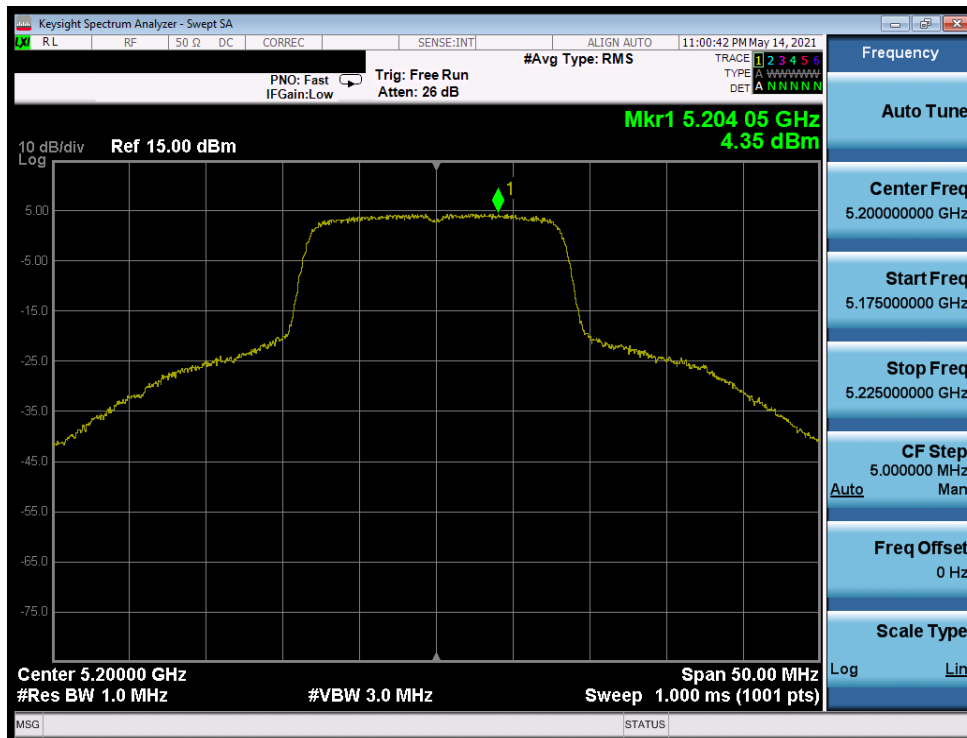
Plot 7-579. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 337 of 508	

MIMO Antenna-2 Band 1, 2A, 2C Power Spectral Density Measurements - Q

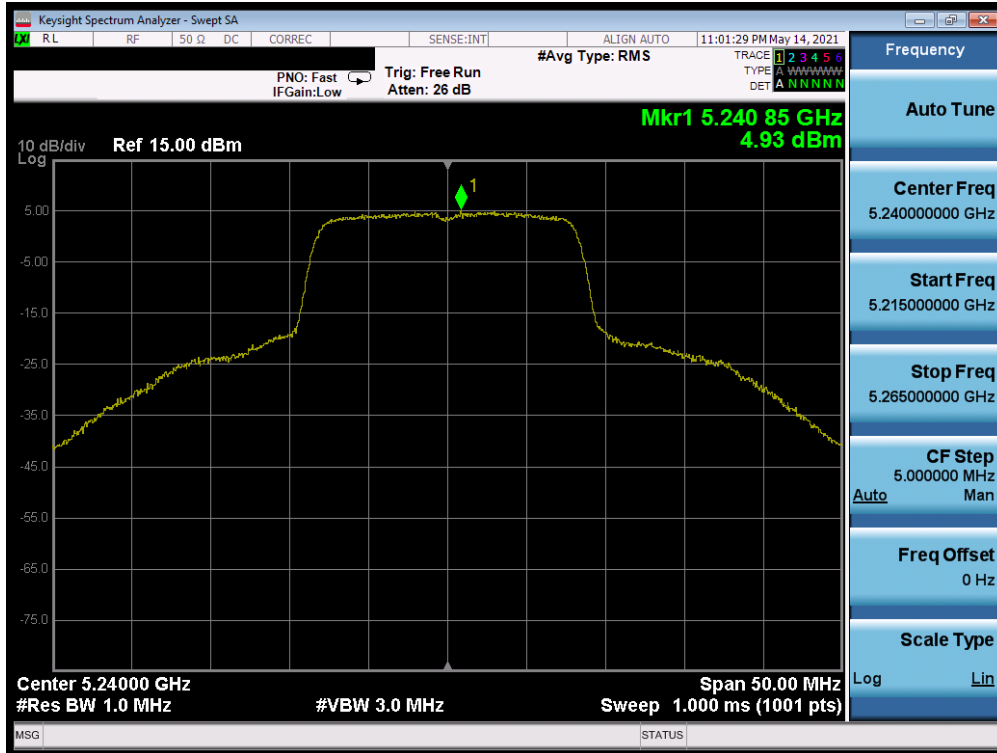


Plot 7-580. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 1) – Ch. 36)

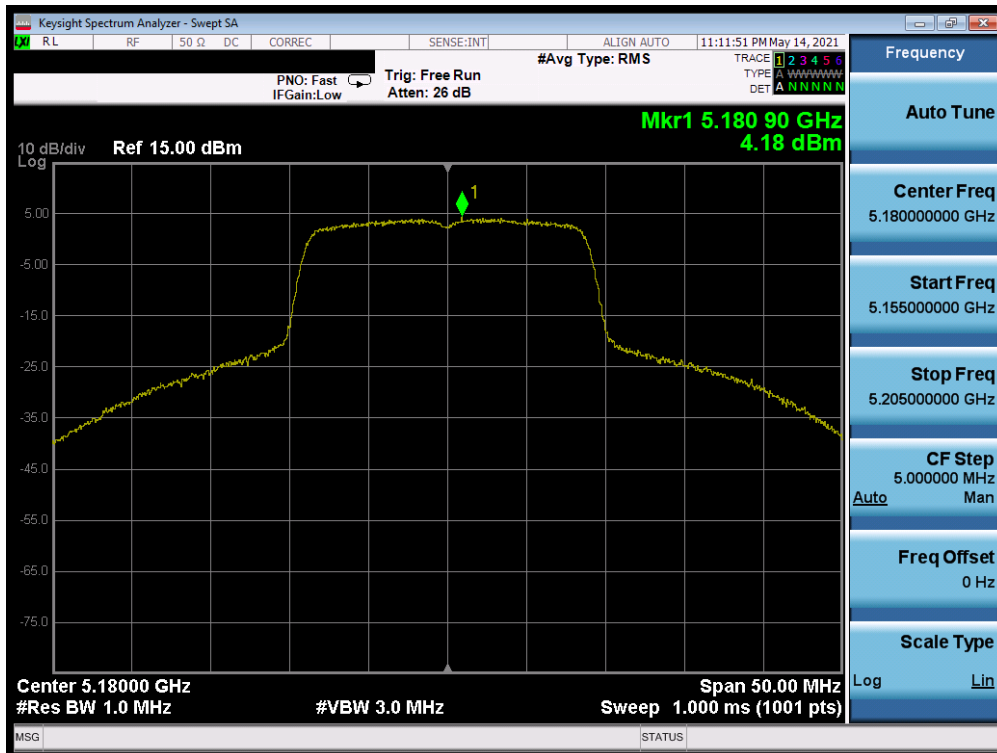


Plot 7-581. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 338 of 508



Plot 7-582. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 1) – Ch. 48)



Plot 7-583. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-12.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 339 of 508

