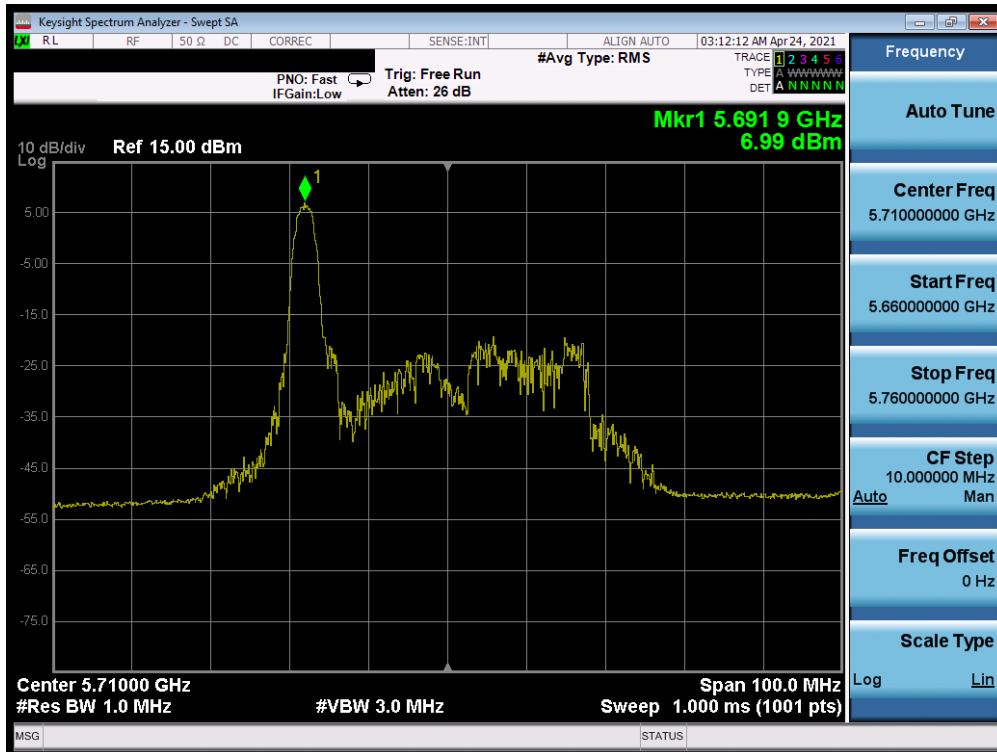
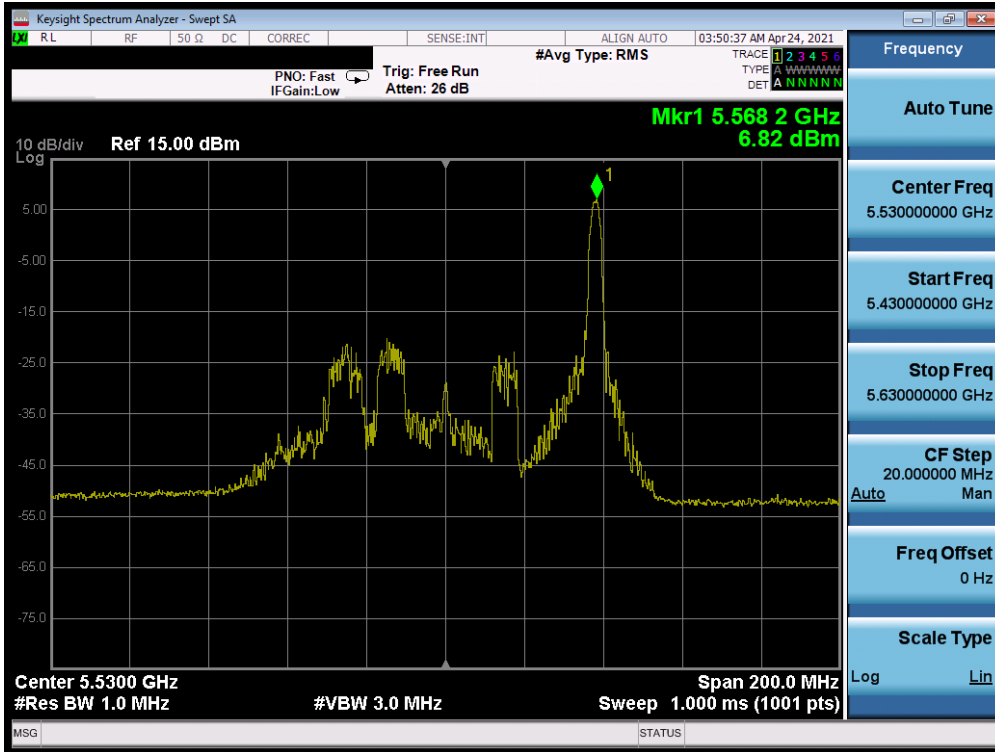


Plot 7-368. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

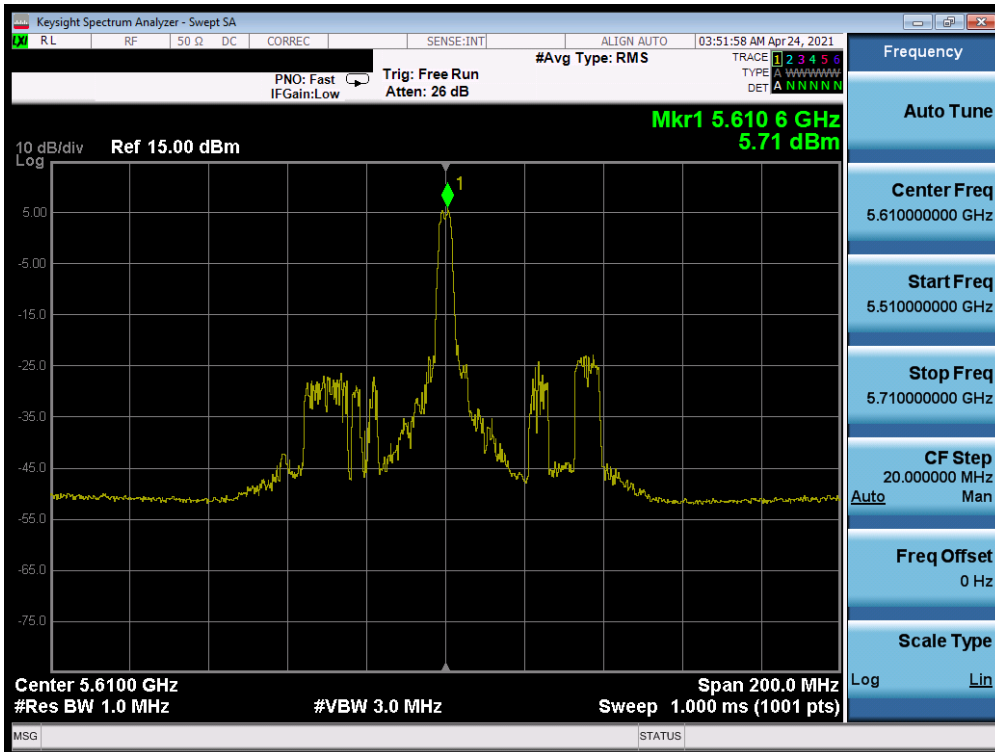


Plot 7-369. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 254 of 413

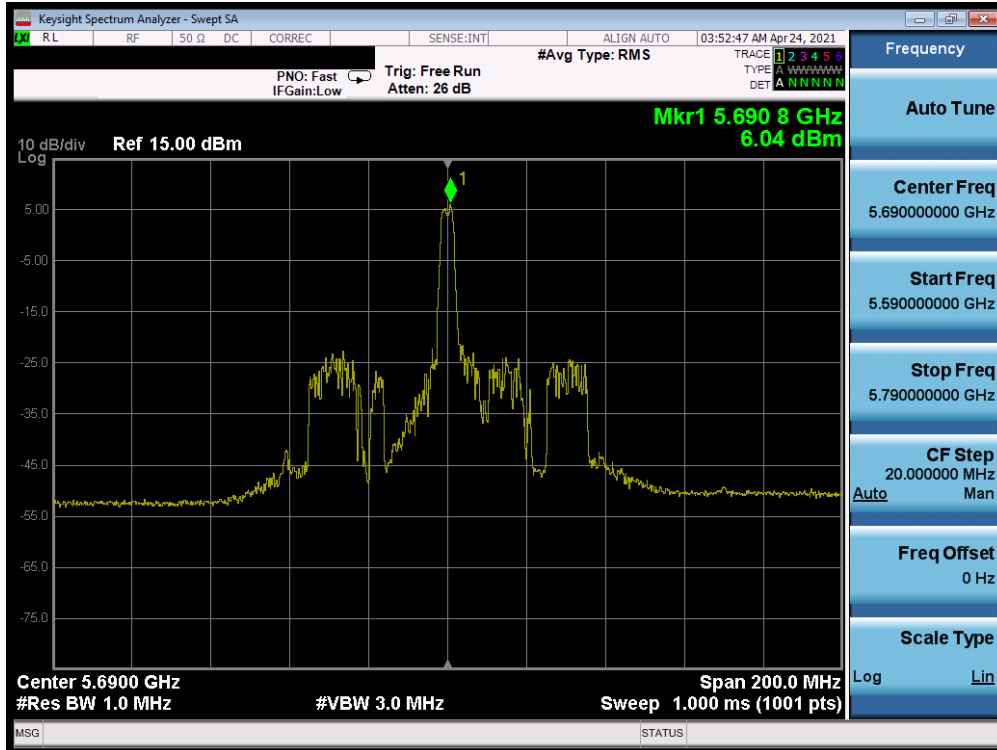


Plot 7-370. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

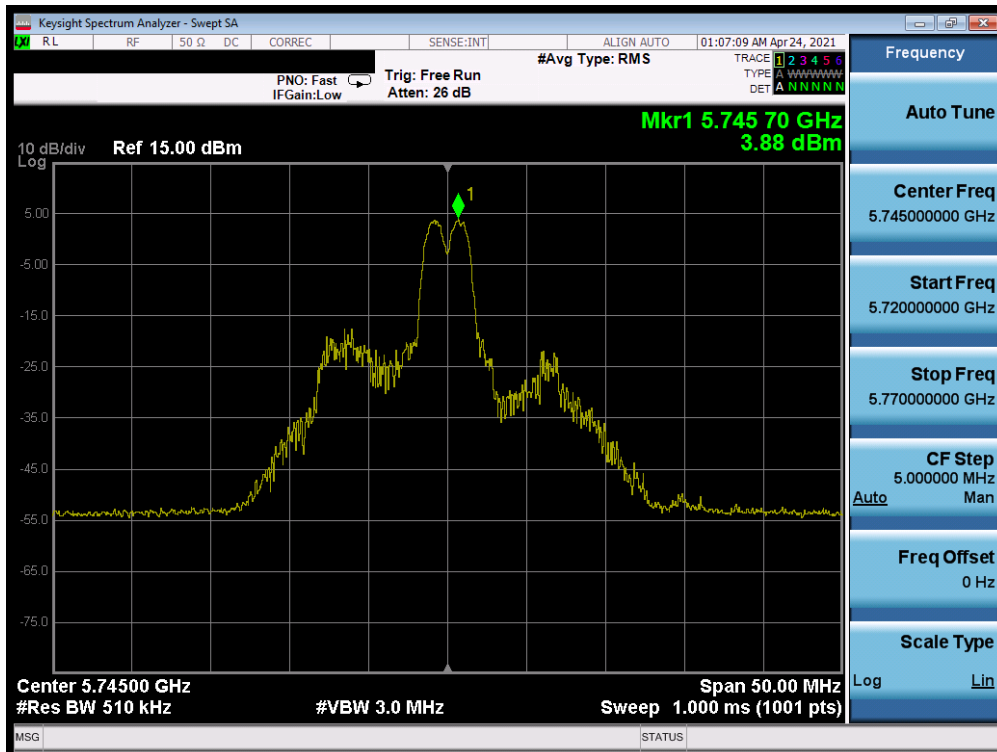


Plot 7-371. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 255 of 413

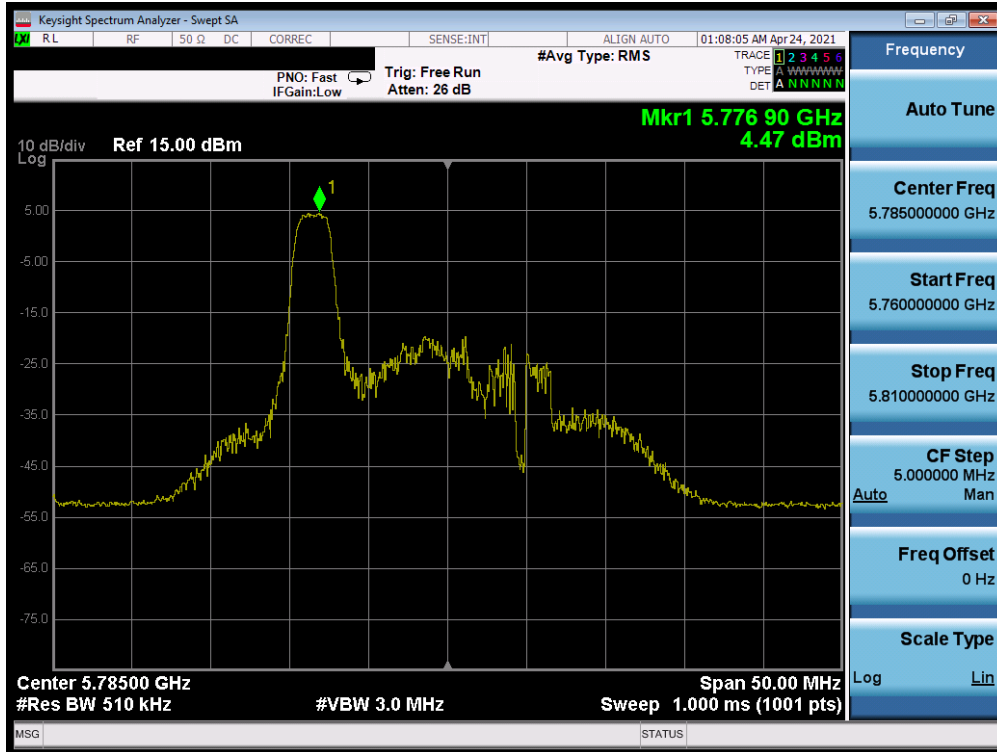


Plot 7-372. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

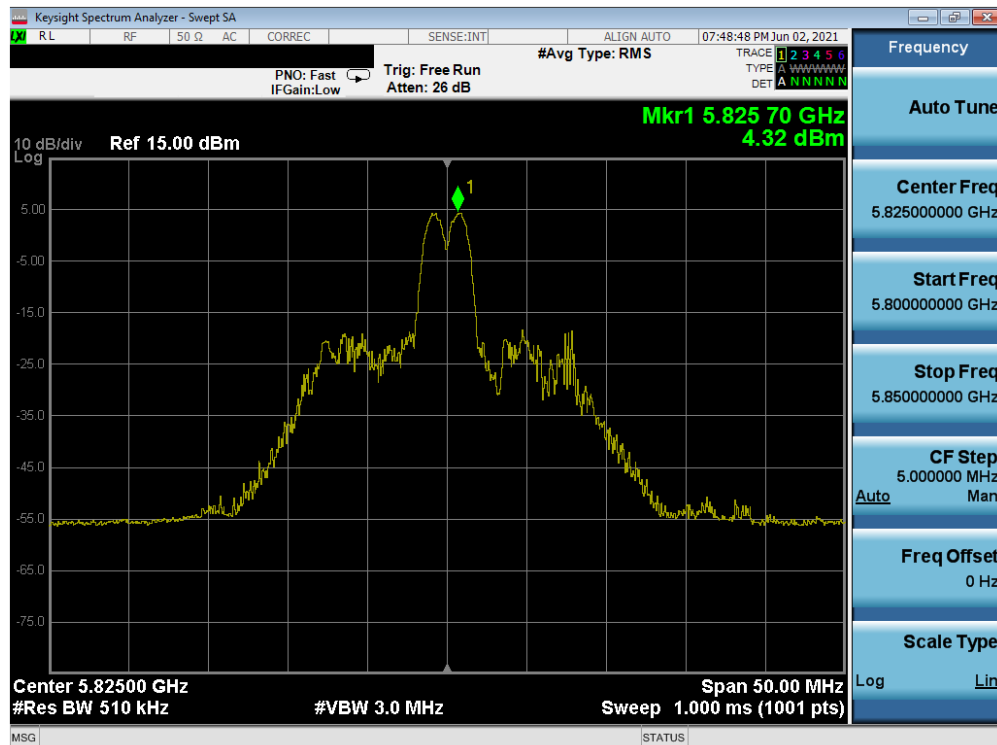


Plot 7-373. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 256 of 413



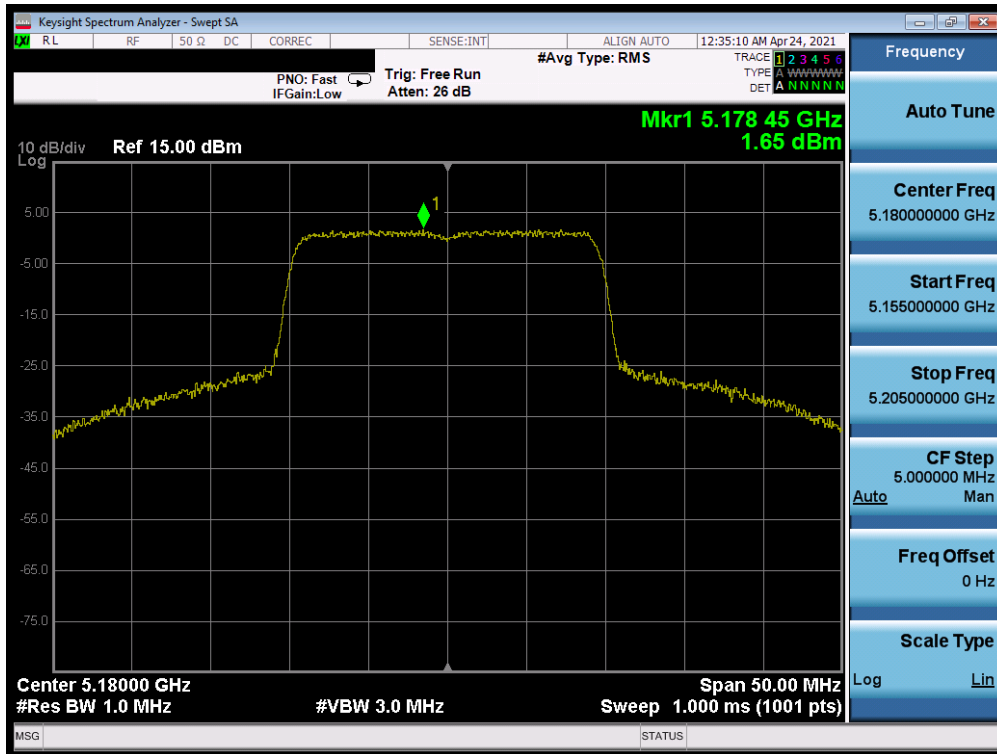
Plot 7-374. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



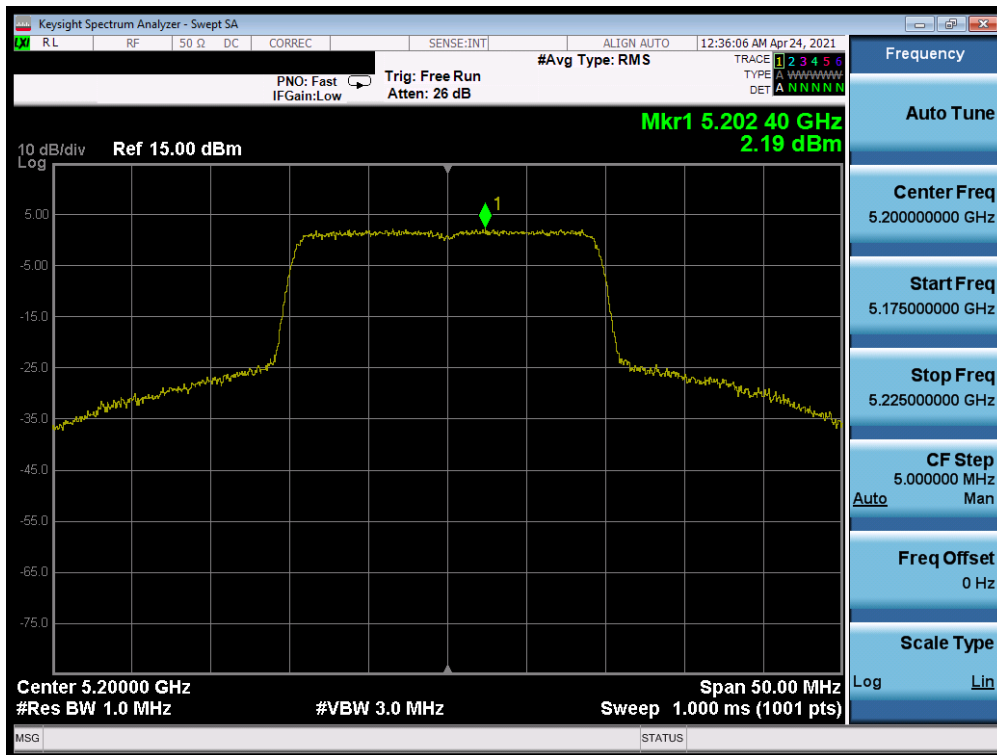
Plot 7-375. Power Spectral Density Plot MIMO ANT2 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 257 of 413

MIMO Antenna-1 Power Spectral Density Measurements (Full Tones) – N

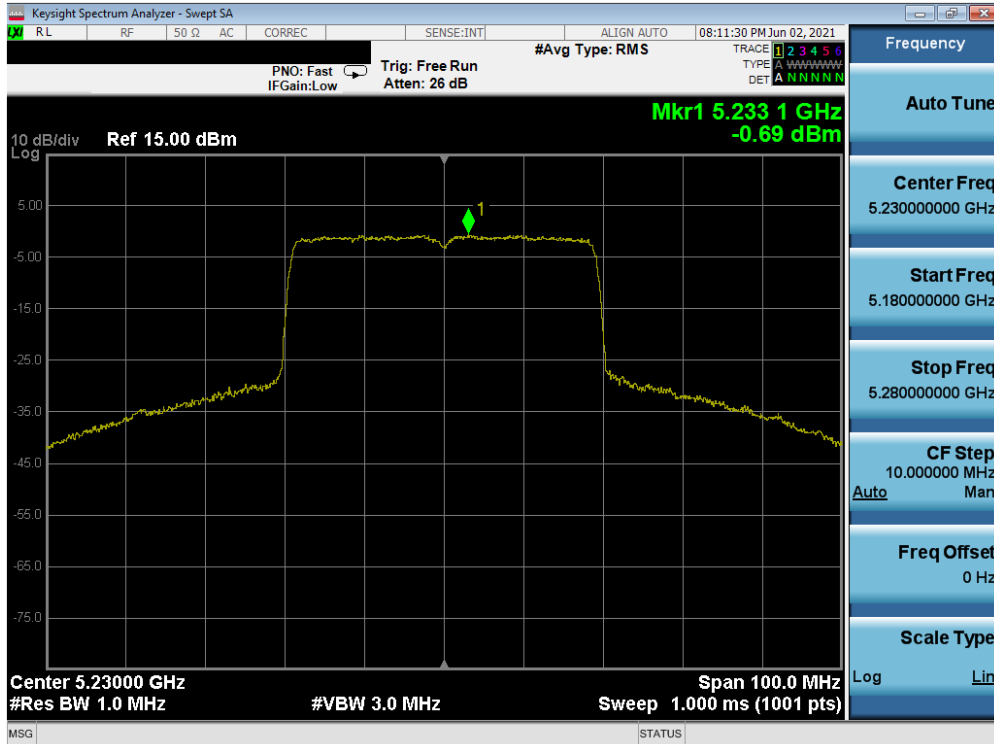


Plot 7-379. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

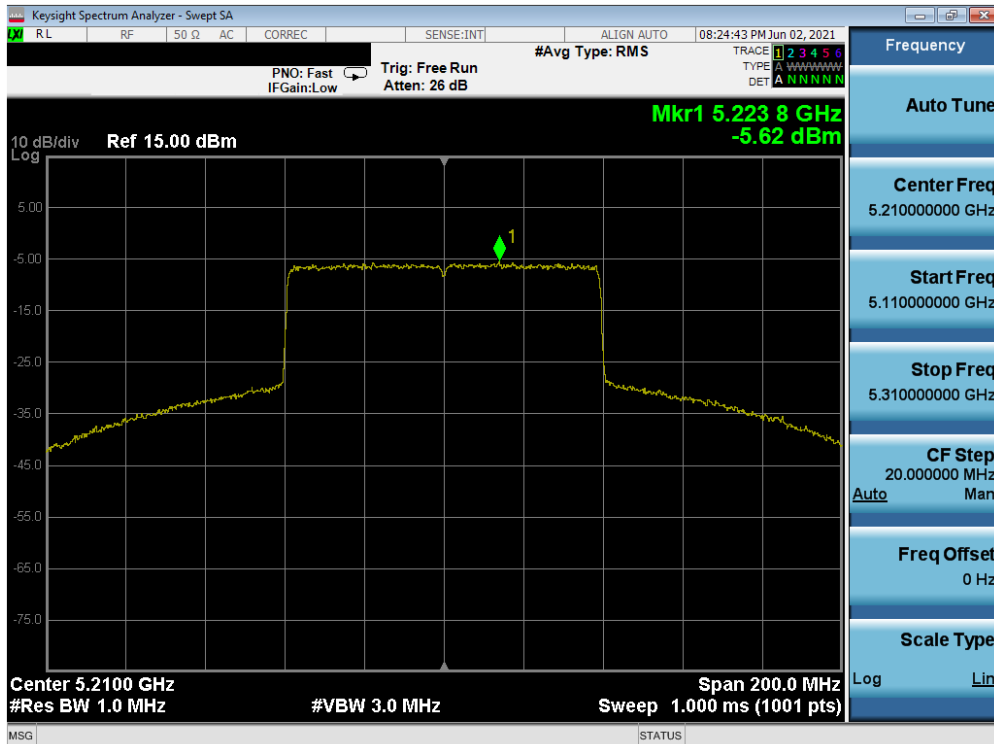


Plot 7-380. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 260 of 413

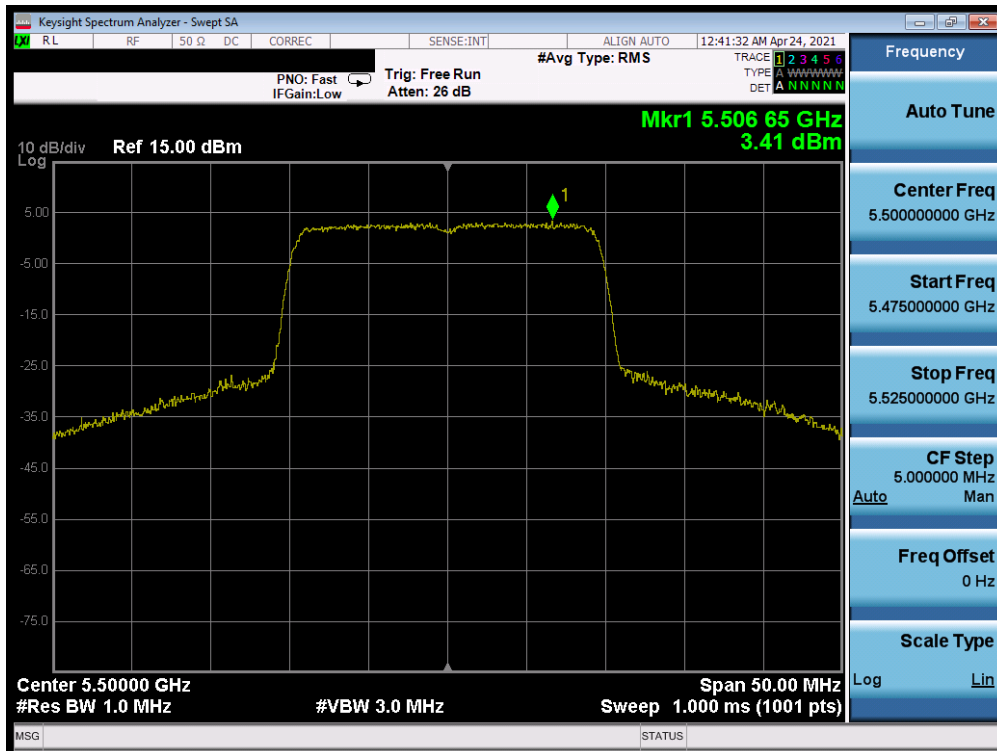


Plot 7-383. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

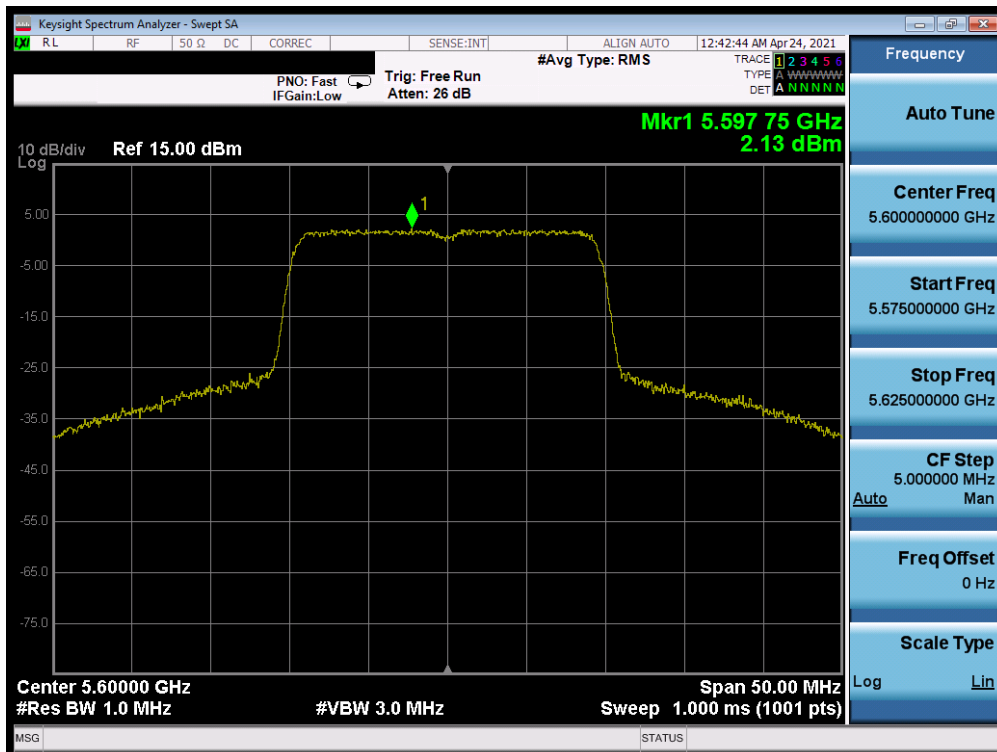


Plot 7-384. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 262 of 413

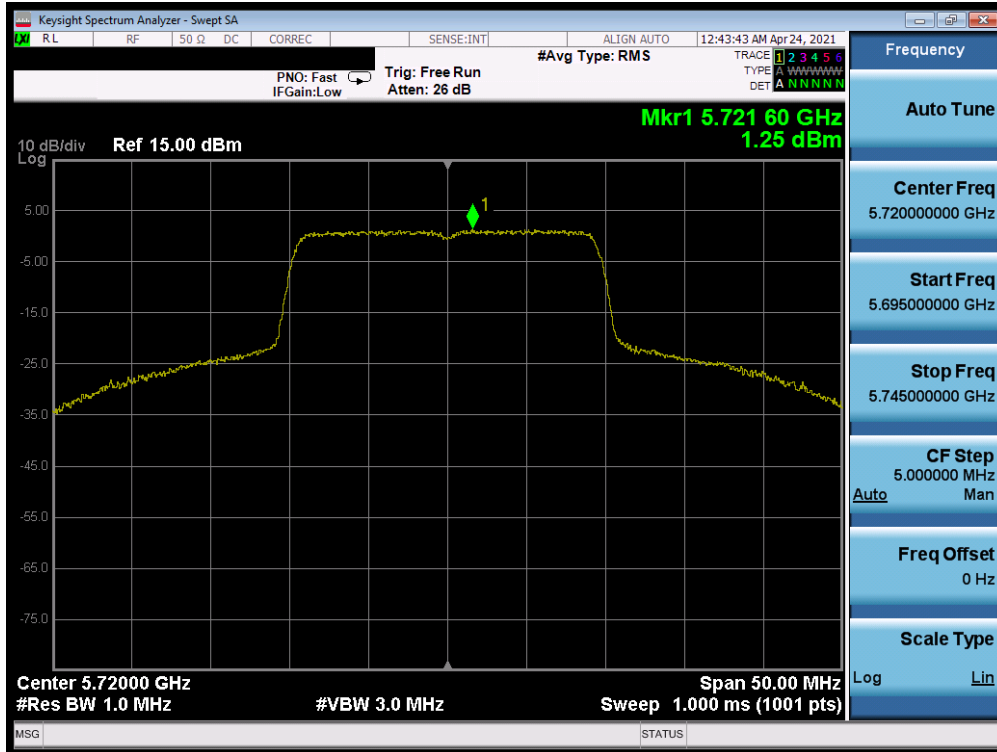


Plot 7-391. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

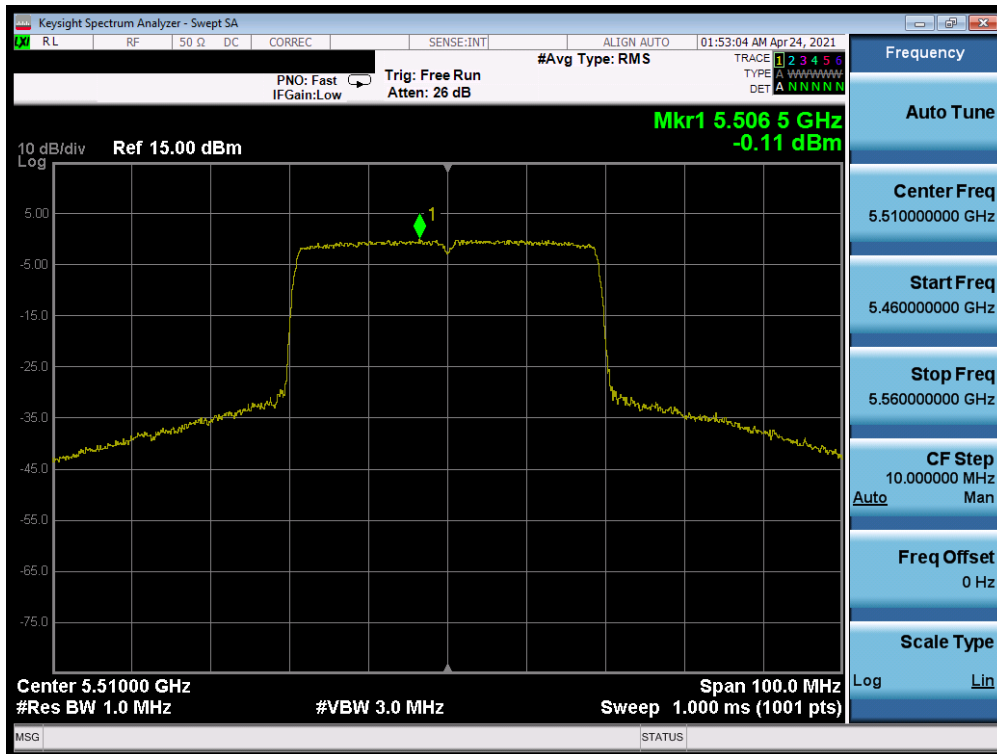


Plot 7-392. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 266 of 413

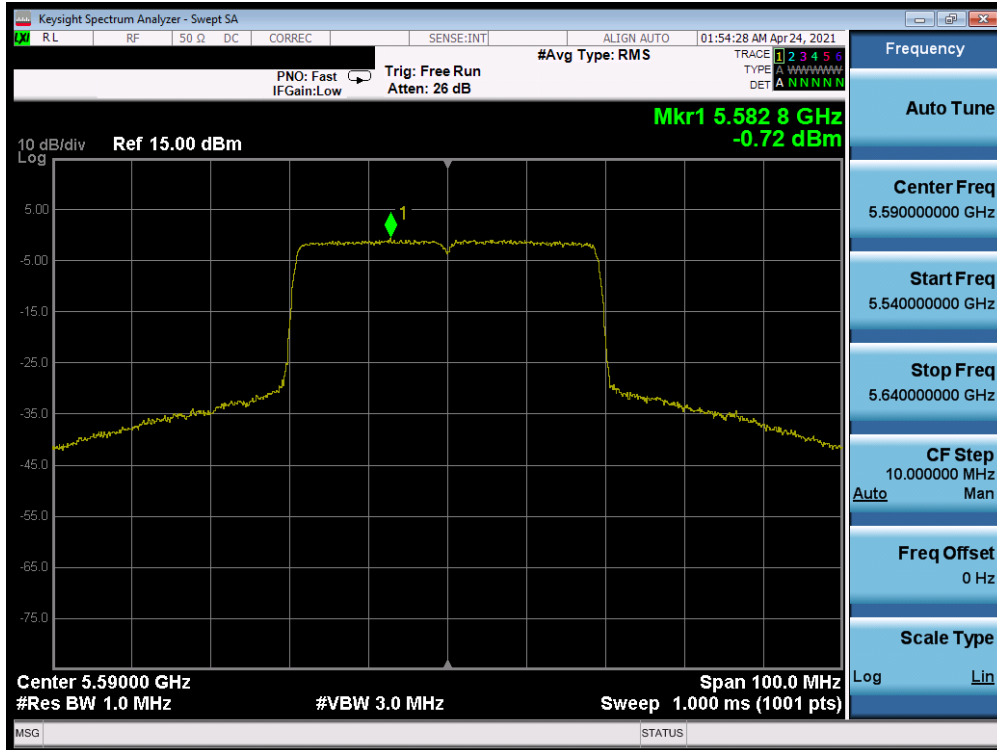


Plot 7-393. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

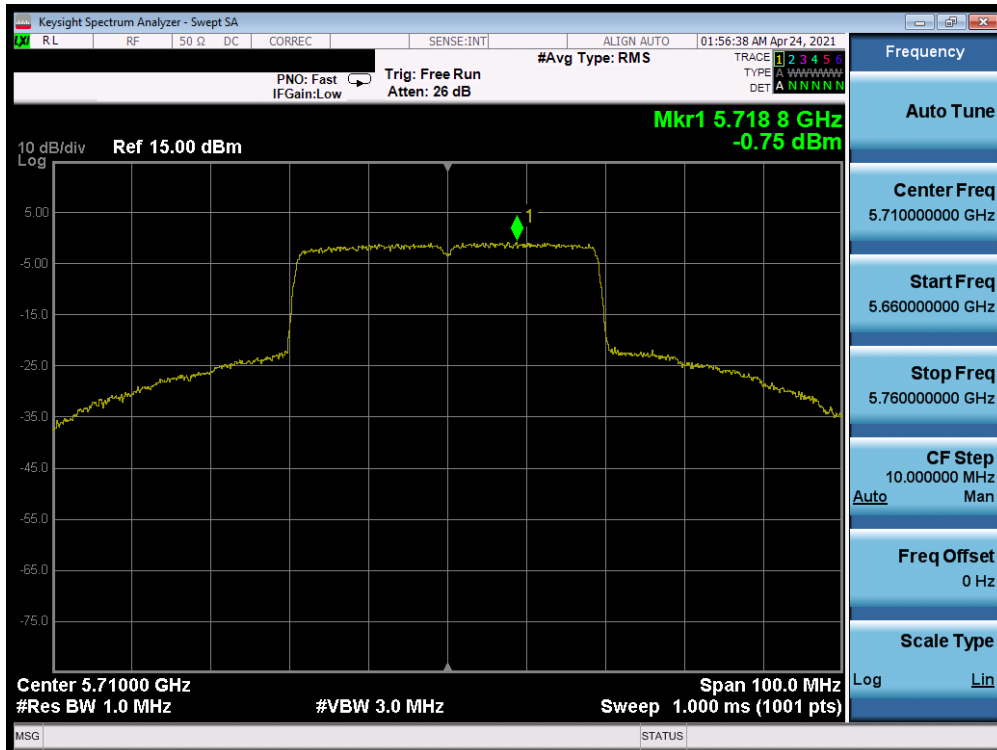


Plot 7-394. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 267 of 413

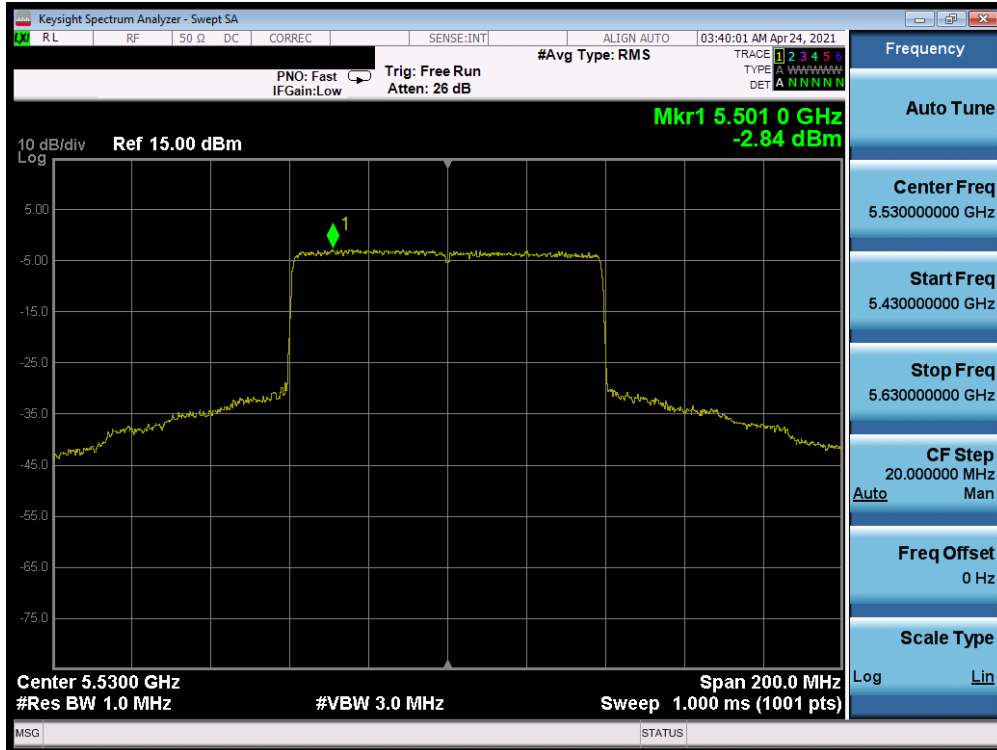


Plot 7-395. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

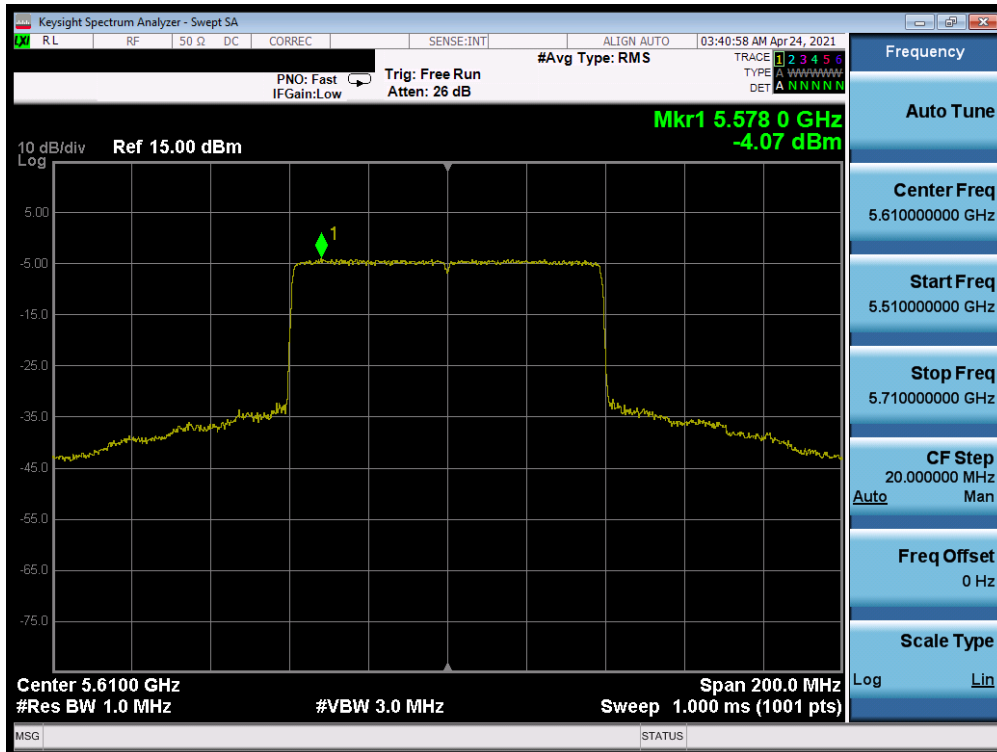


Plot 7-396. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 268 of 413

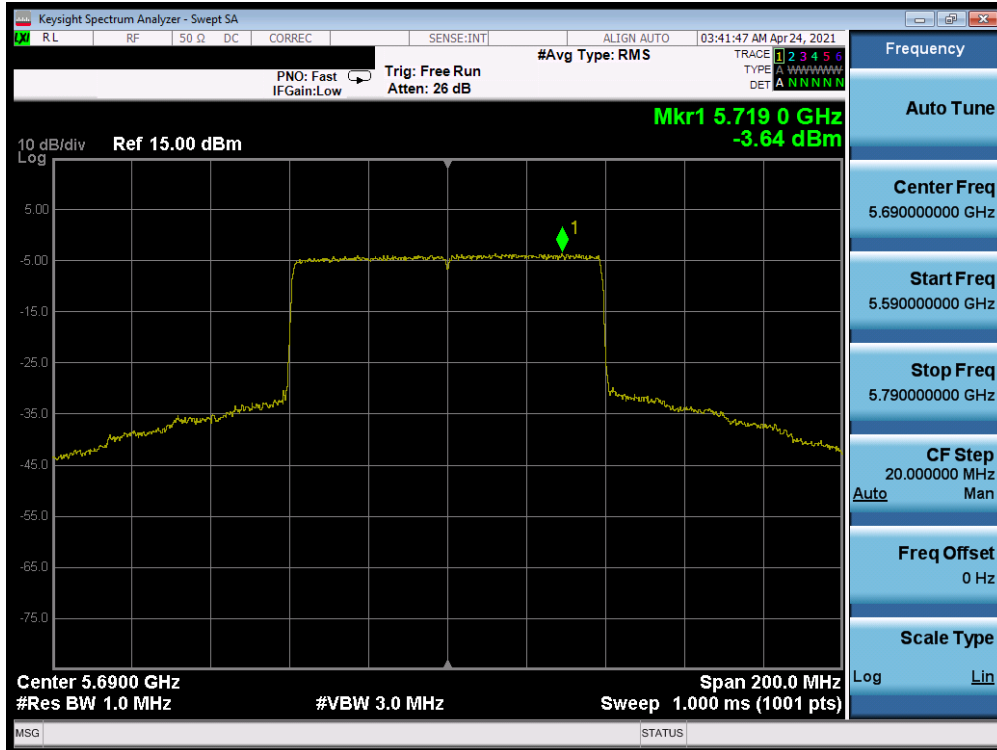


Plot 7-397. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

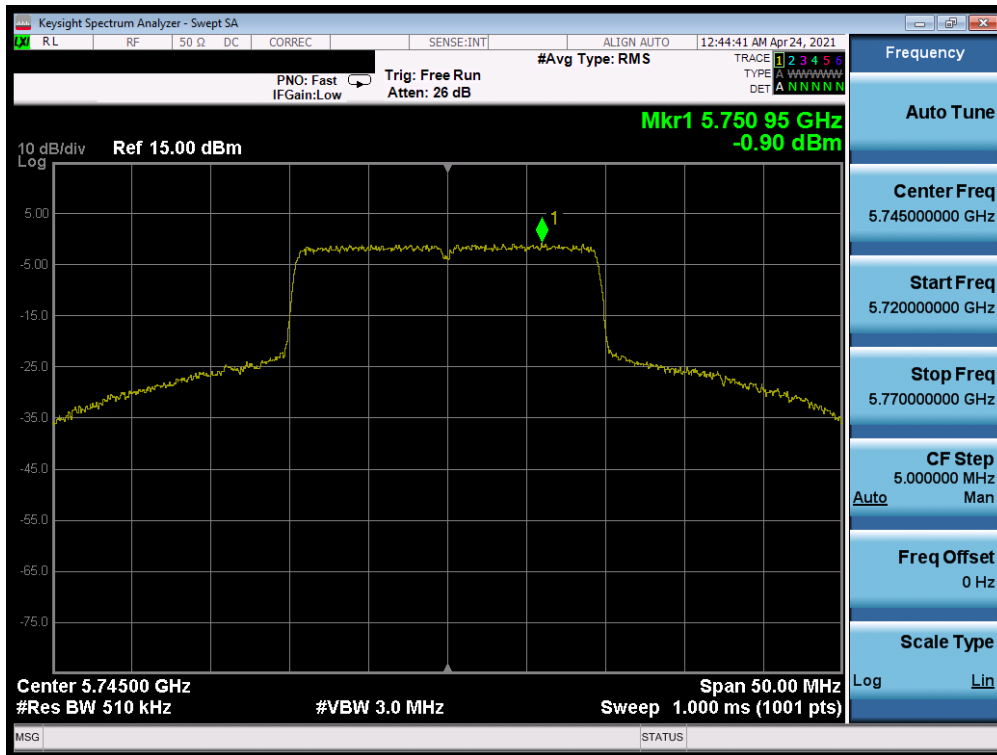


Plot 7-398. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 269 of 413

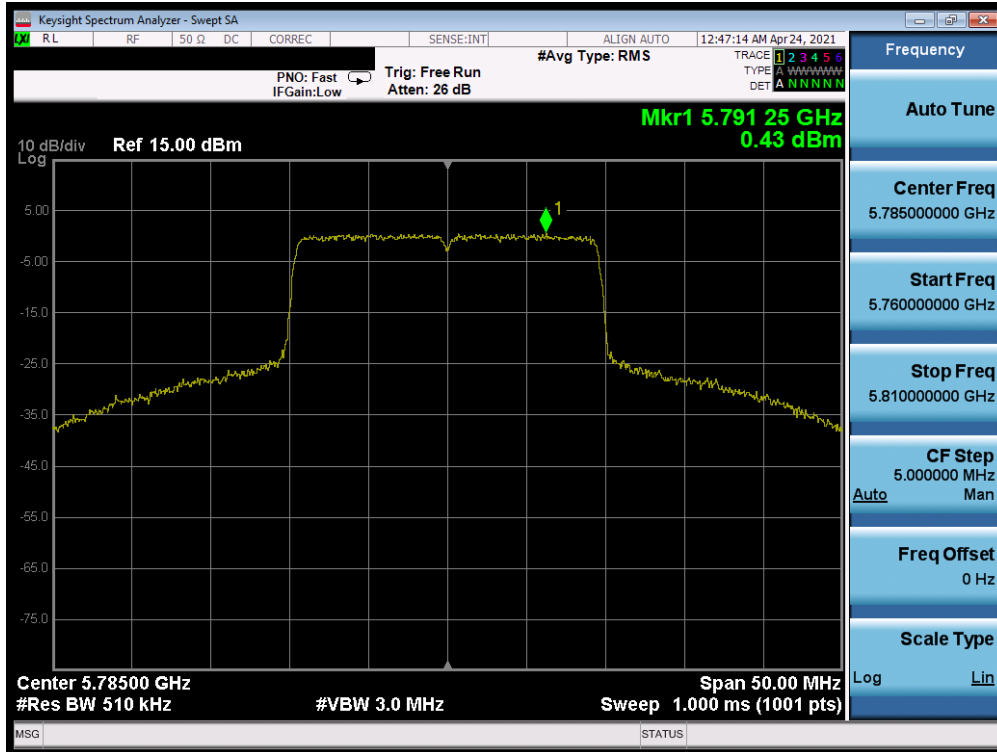


Plot 7-399. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

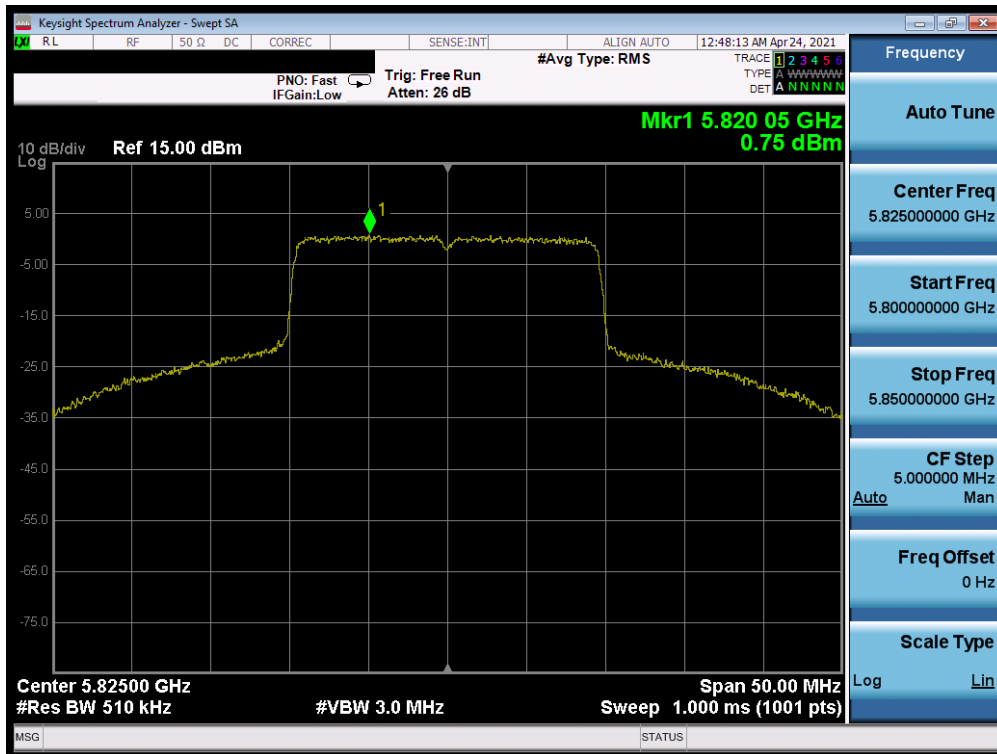


Plot 7-400. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 270 of 413

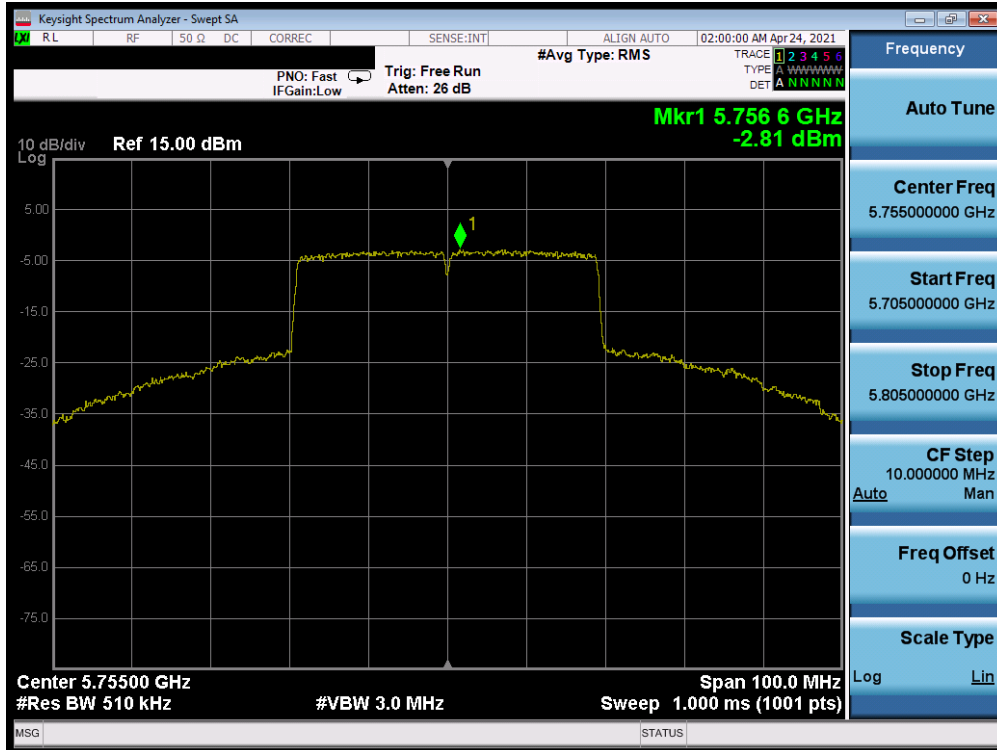


Plot 7-401. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

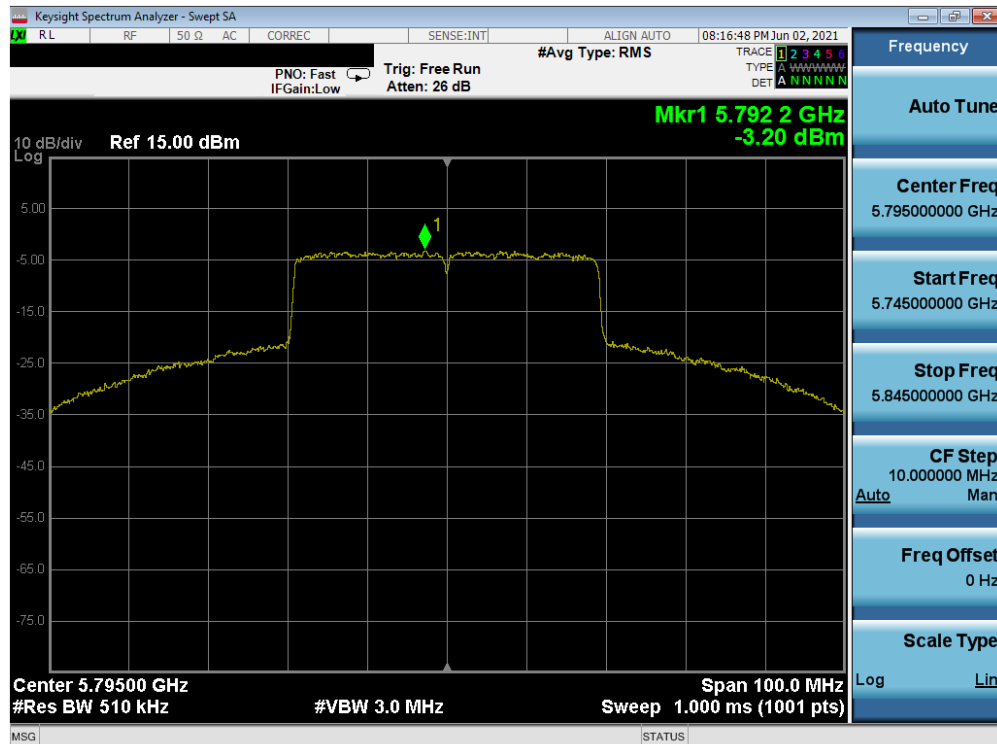


Plot 7-402. Power Spectral Density Plot MIMO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 271 of 413

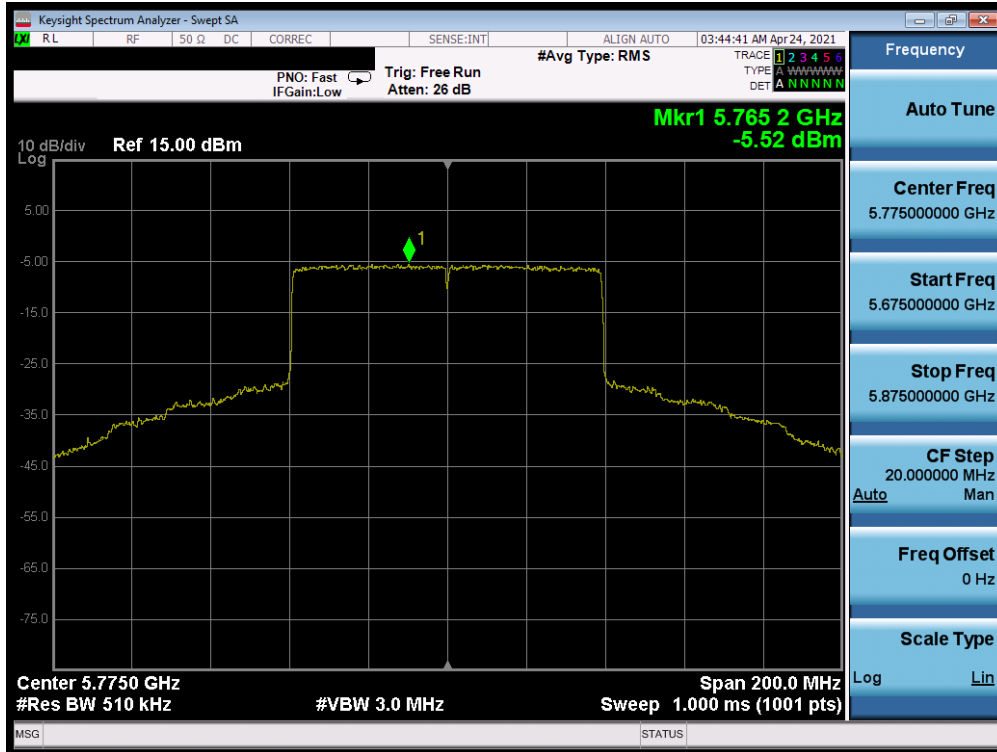


Plot 7-403. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



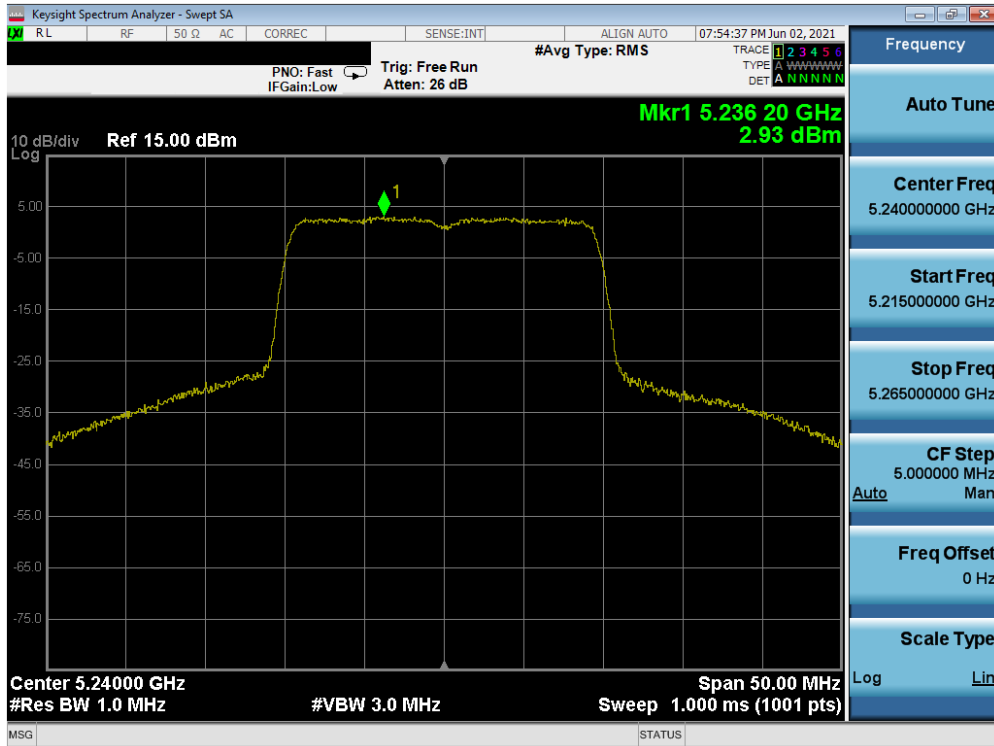
Plot 7-404. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 272 of 413

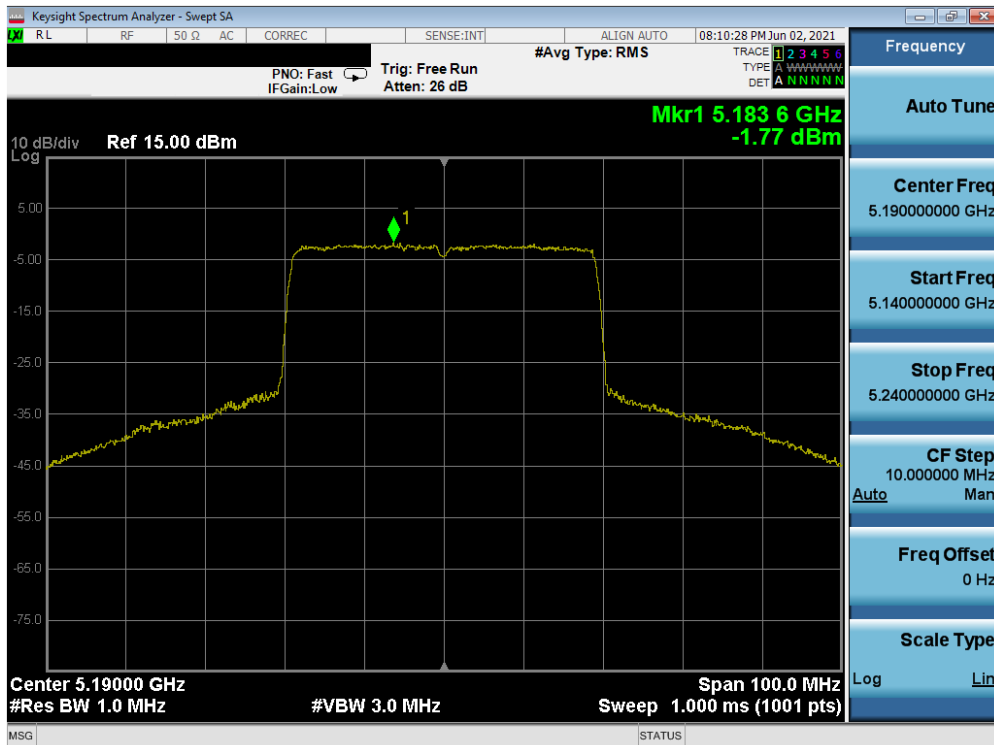


Plot 7-405. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 273 of 413

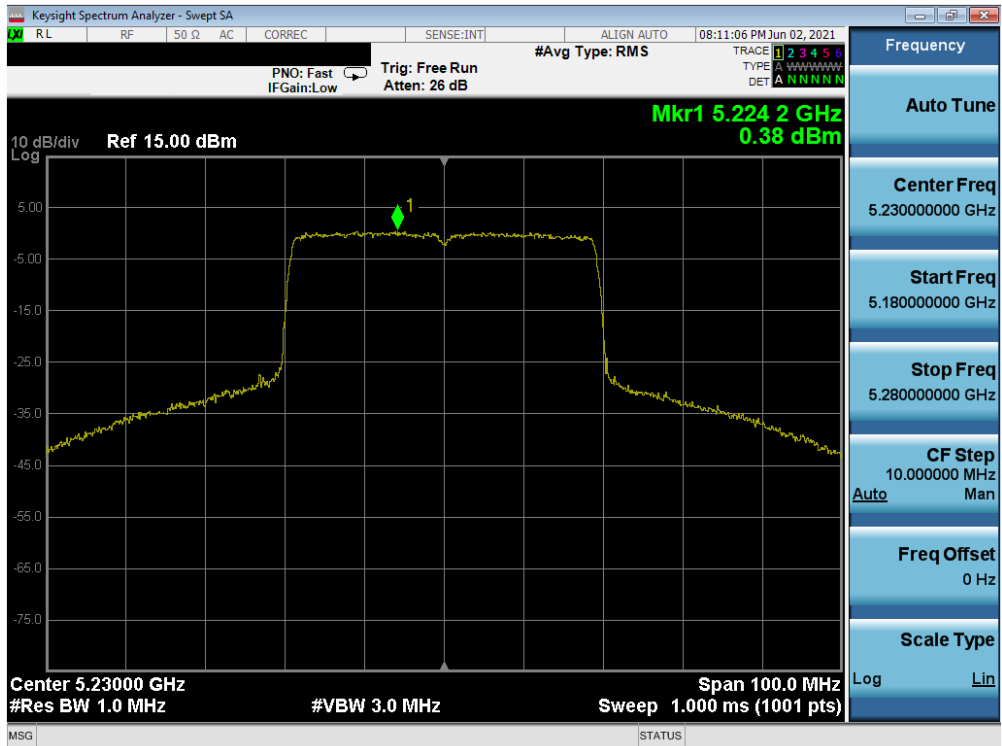


Plot 7-408. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

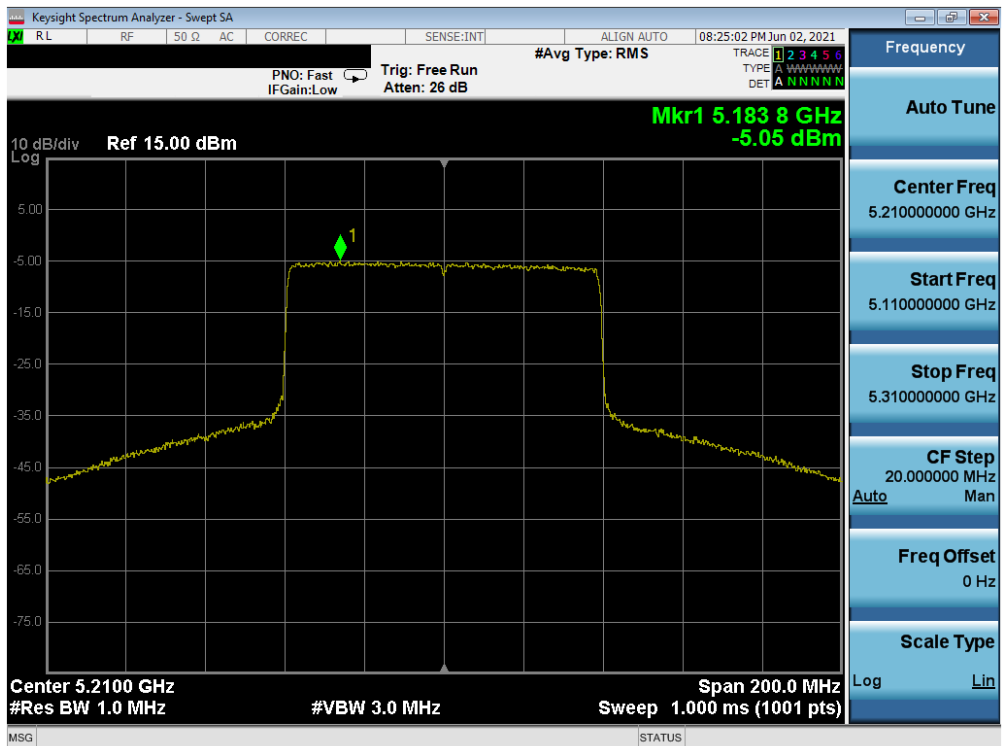


Plot 7-409. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 275 of 413

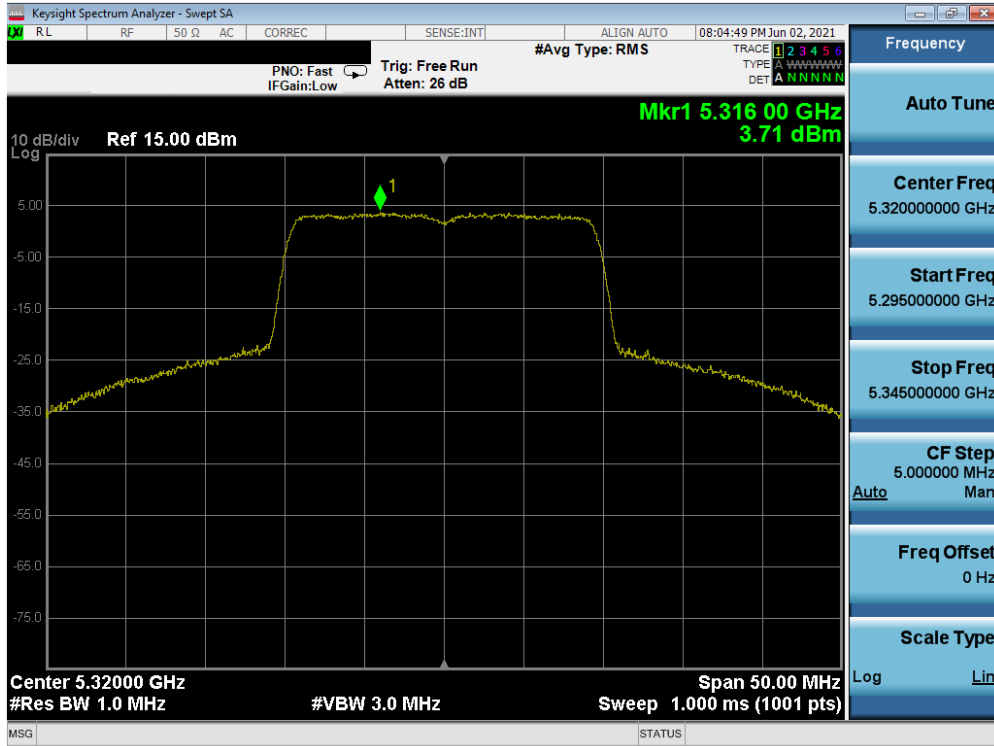


Plot 7-410. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

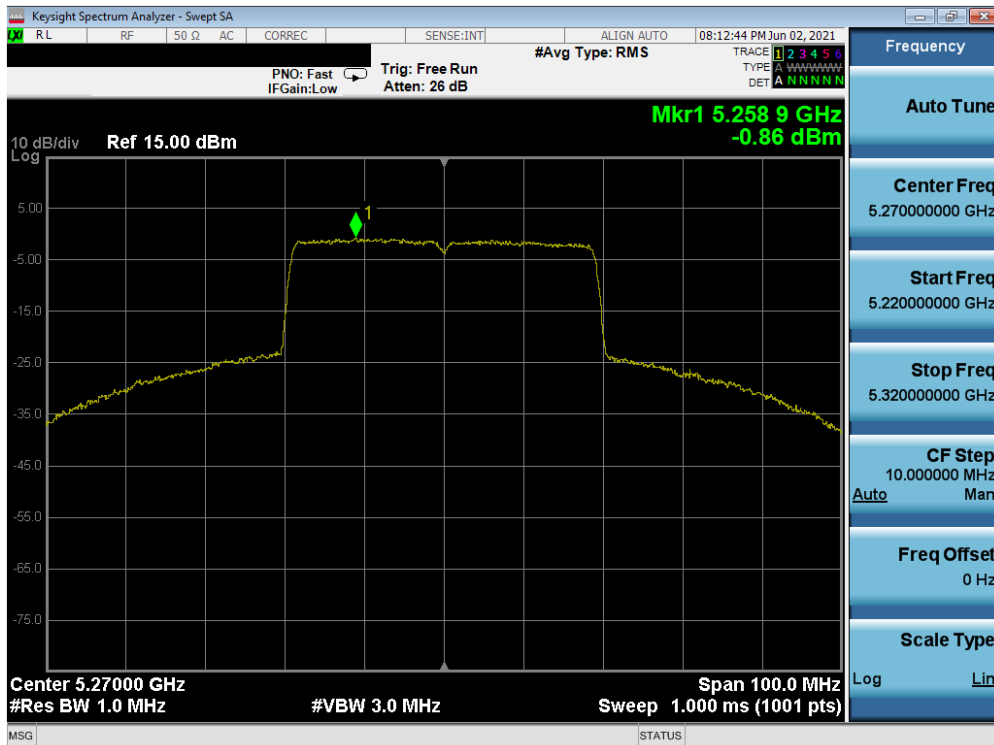


Plot 7-411. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 276 of 413

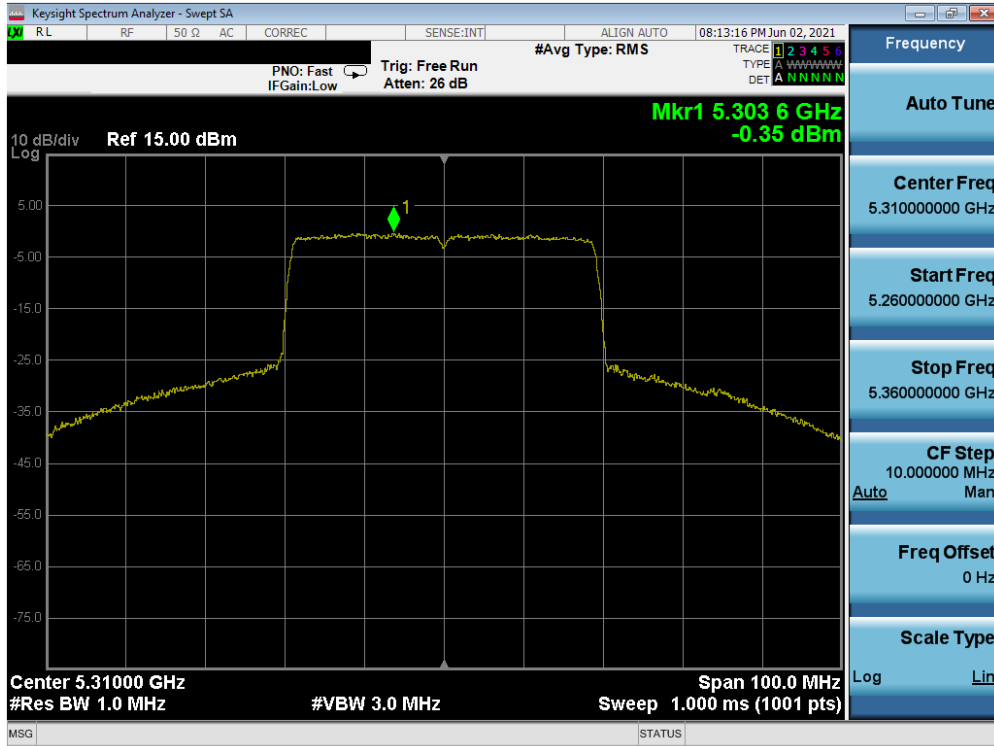


Plot 7-414. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

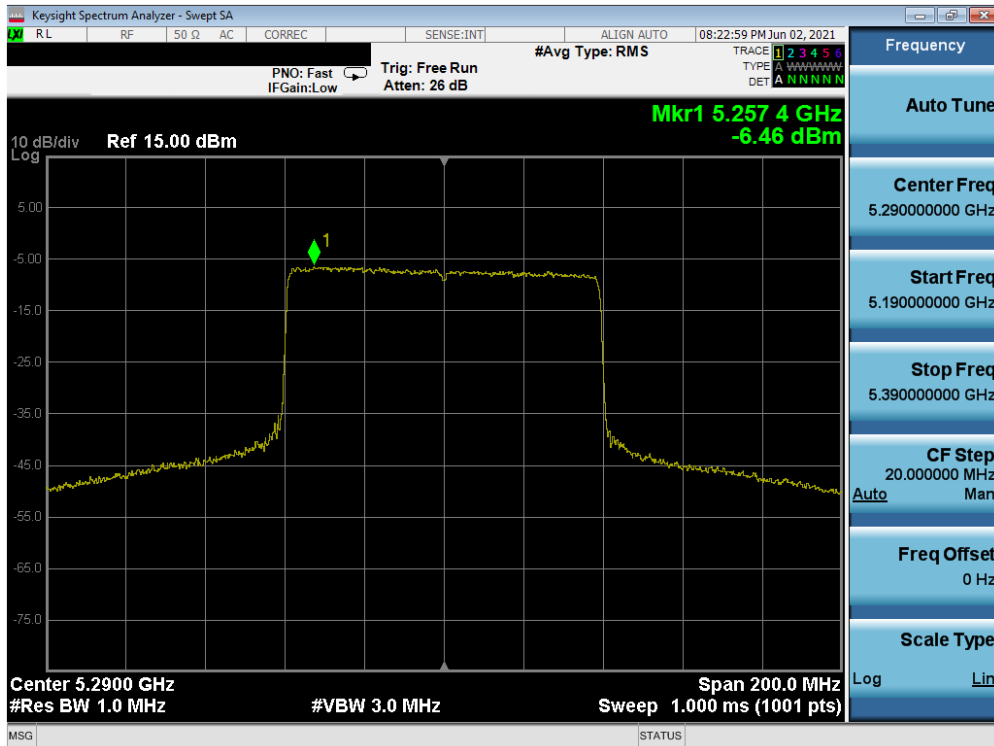


Plot 7-415. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 278 of 413

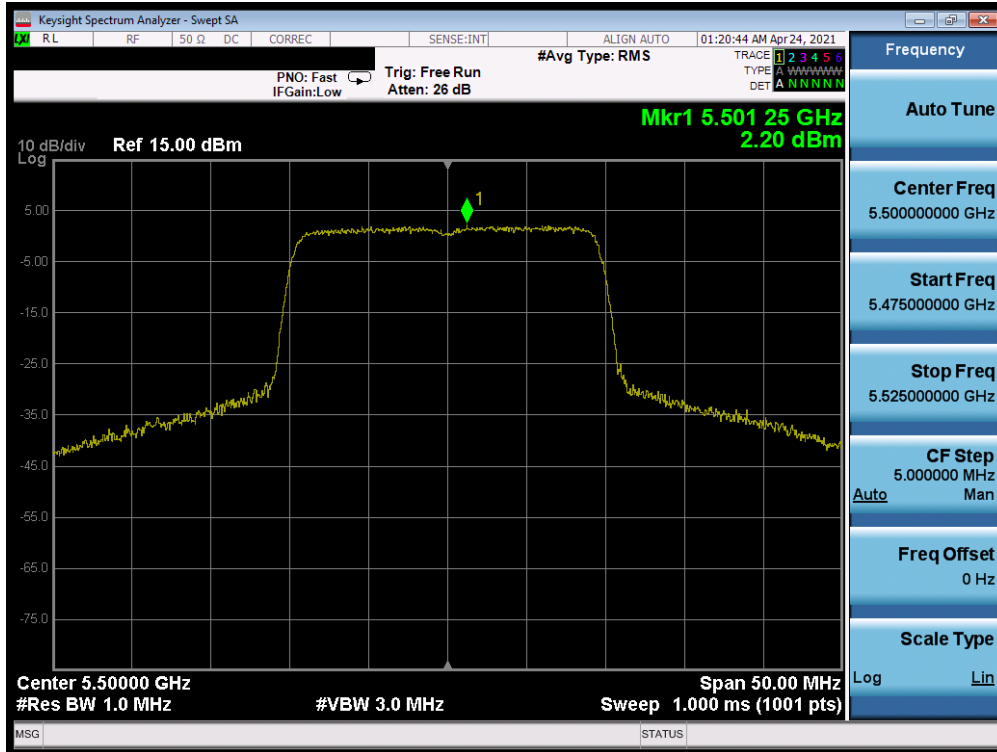


Plot 7-416. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

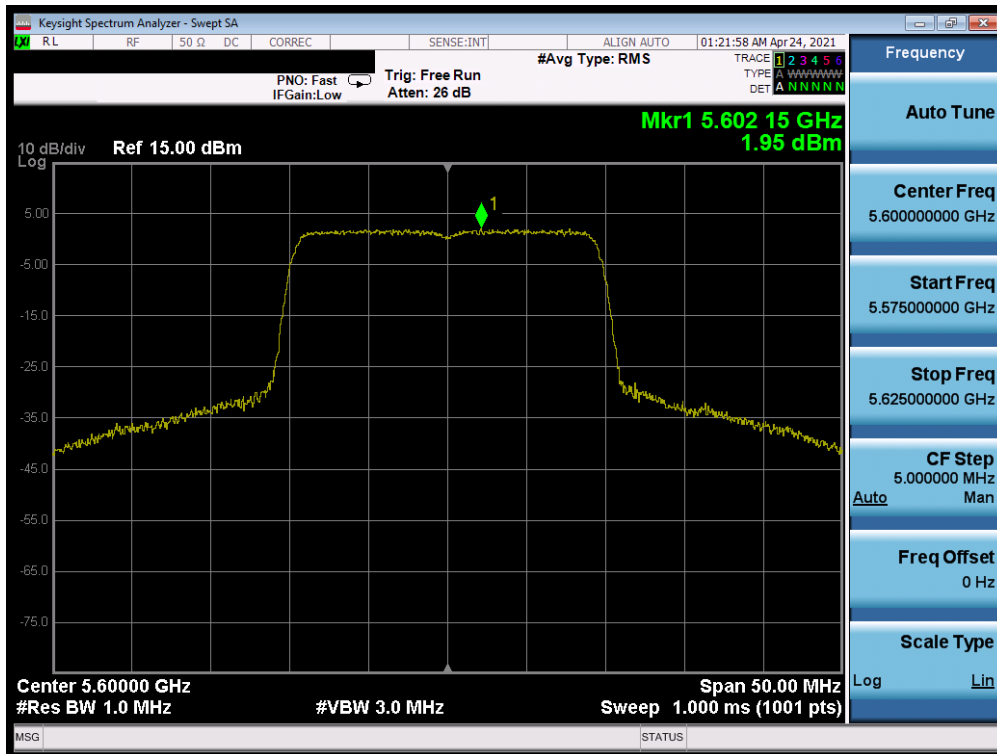


Plot 7-417. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 279 of 413

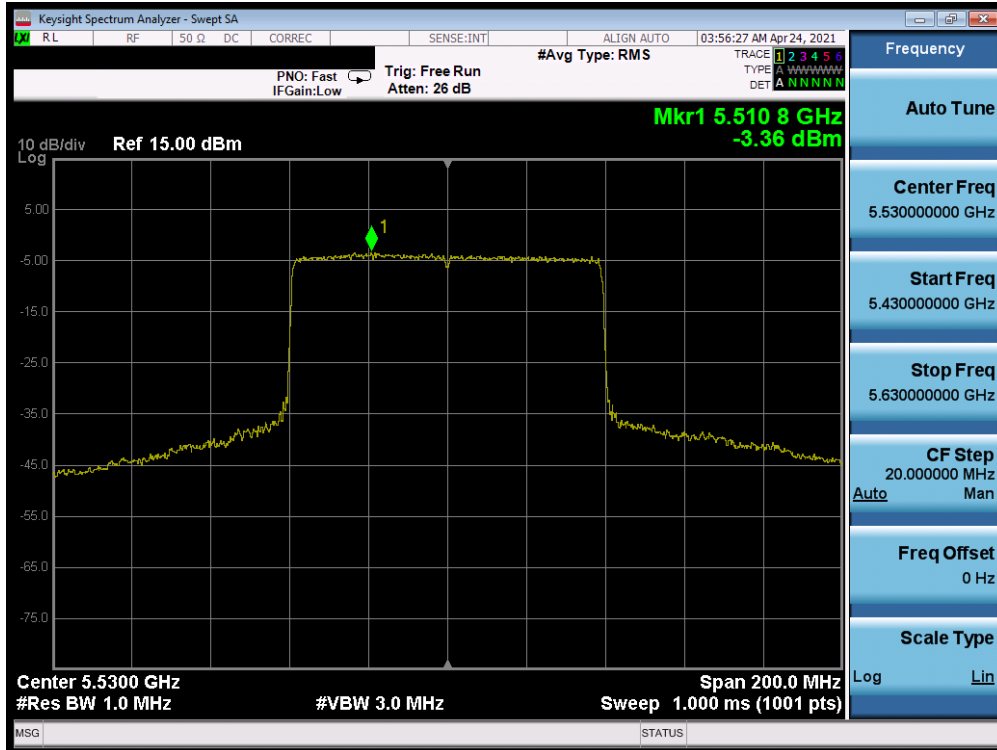


Plot 7-418. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

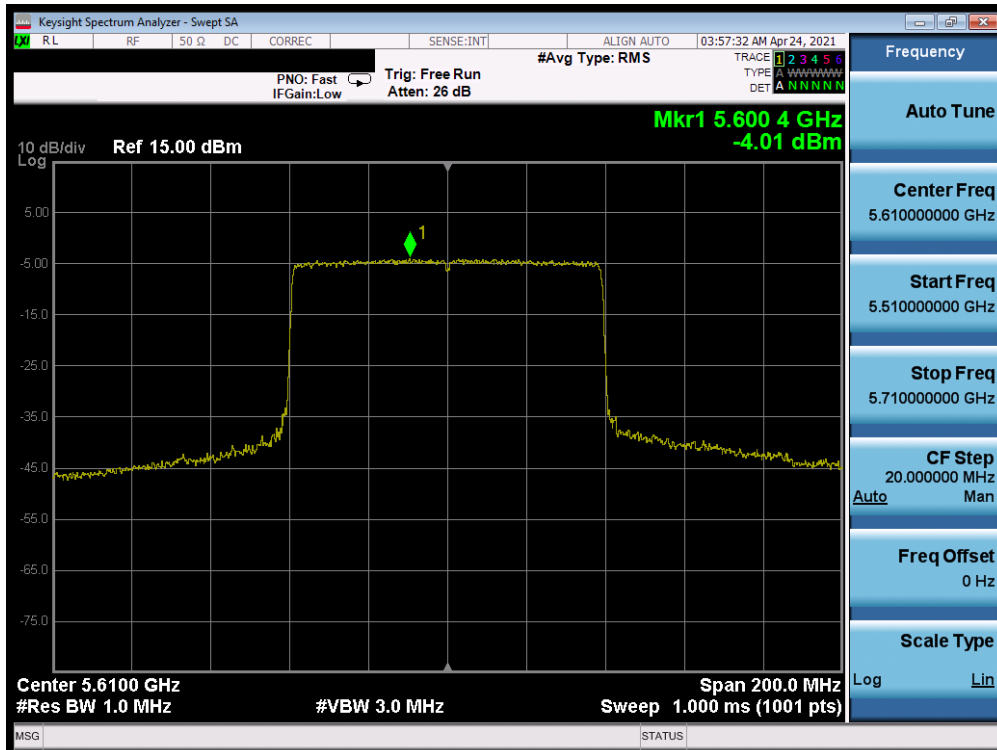


Plot 7-419. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 280 of 413

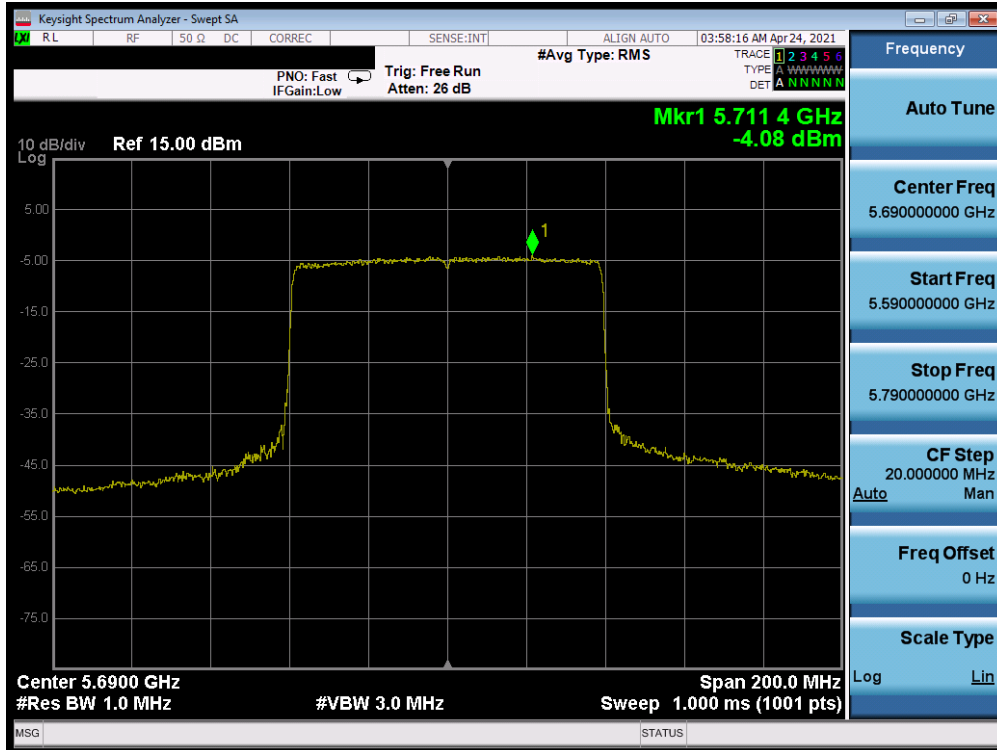


Plot 7-424. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

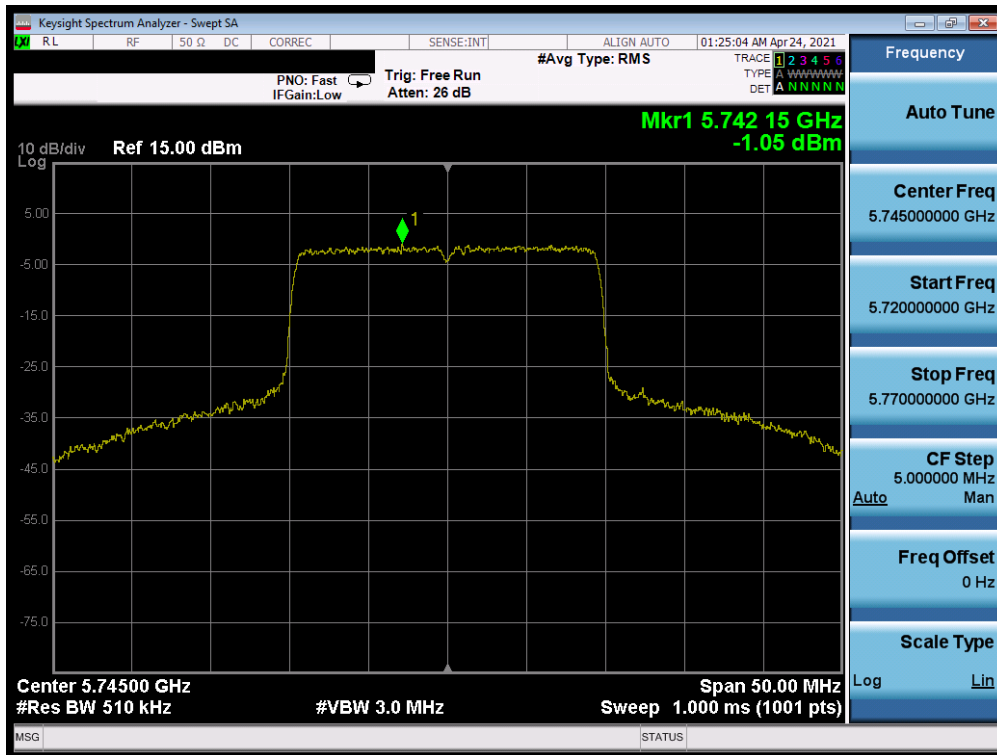


Plot 7-425. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 283 of 413

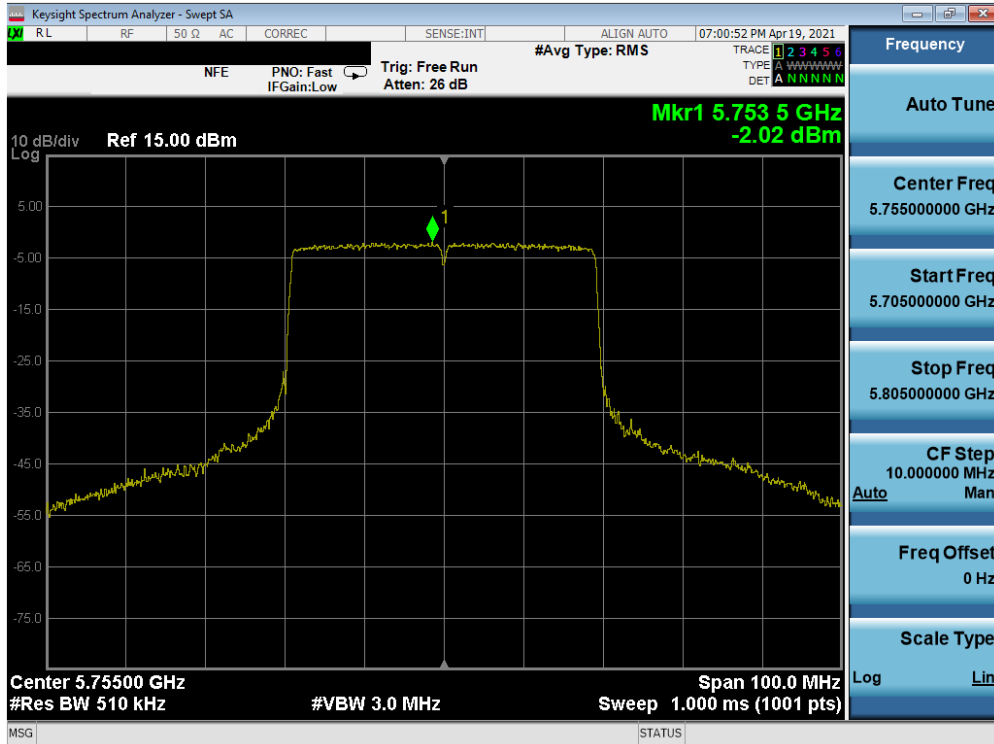


Plot 7-426. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

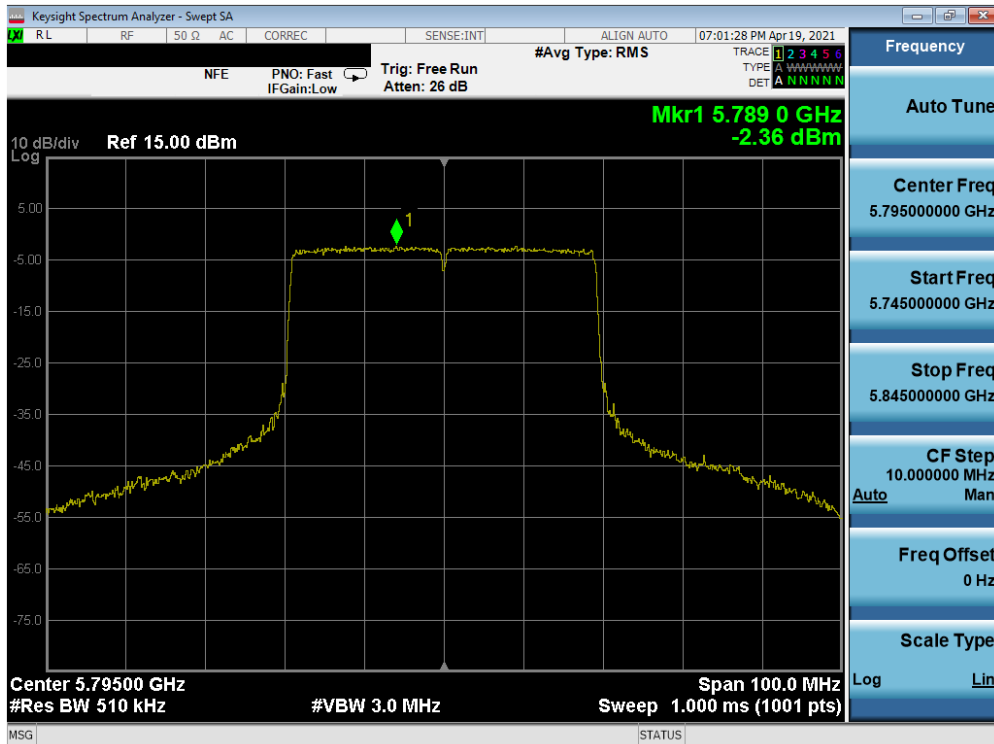


Plot 7-427. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 284 of 413

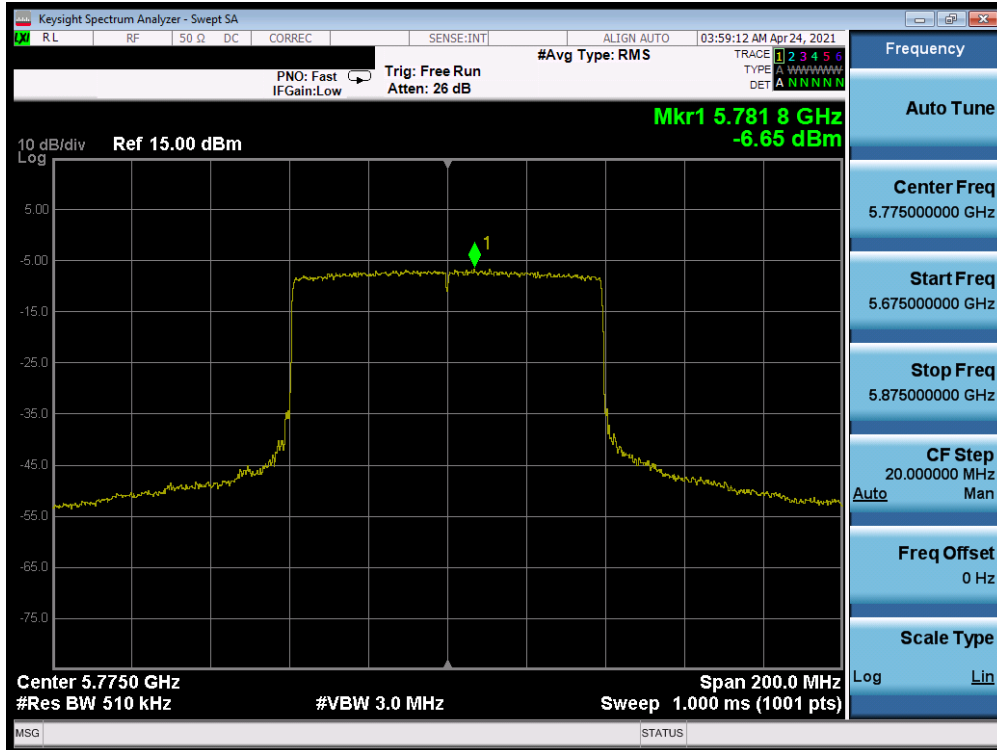


Plot 7-430. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



Plot 7-431. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 286 of 413



Plot 7-432. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 287 of 413

Summed MIMO Power Spectral Density Measurements (26 Tones) – Q

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.38	5.27	8.34	11.00	-2.66
	5200	40	ax (20MHz)	26T	MCS0	5.66	4.74	8.24	11.00	-2.76
	5240	48	ax (20MHz)	26T	MCS0	6.64	5.90	9.30	11.00	-1.70
	5190	38	ax (40MHz)	26T	MCS0	6.90	5.81	9.40	11.00	-1.60
	5230	46	ax (40MHz)	26T	MCS0	7.84	6.17	10.09	11.00	-0.91
	5210	42	ax (80MHz)	26T	MCS0	5.94	7.31	9.69	11.00	-1.31
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.05	5.94	9.54	11.00	-1.46
	5280	56	ax (20MHz)	26T	MCS0	6.92	6.04	9.51	11.00	-1.49
	5320	64	ax (20MHz)	26T	MCS0	7.51	6.25	9.94	11.00	-1.06
	5270	54	ax (40MHz)	26T	MCS0	7.65	6.36	10.06	11.00	-0.94
	5310	62	ax (40MHz)	26T	MCS0	7.33	6.13	9.78	11.00	-1.22
	5290	58	ax (80MHz)	26T	MCS0	6.33	4.99	8.72	11.00	-2.28
Band 2C	5500	100	ax (20MHz)	26T	MCS0	6.74	6.47	9.62	11.00	-1.38
	5600	120	ax (20MHz)	26T	MCS0	5.63	5.63	8.64	11.00	-2.36
	5720	144	ax (20MHz)	26T	MCS0	7.30	6.28	9.83	11.00	-1.17
	5510	102	ax (40MHz)	26T	MCS0	7.34	6.51	9.96	11.00	-1.04
	5590	118	ax (40MHz)	26T	MCS0	7.65	6.51	10.13	11.00	-0.87
	5710	142	ax (40MHz)	26T	MCS0	8.06	6.03	10.17	11.00	-0.83
	5530	106	ax (80MHz)	26T	MCS0	7.21	6.51	9.88	11.00	-1.12
	5610	122	ax (80MHz)	26T	MCS0	7.47	6.17	9.88	11.00	-1.12
	5690	138	ax (80MHz)	26T	MCS0	6.33	7.12	9.75	11.00	-1.25

Table 7-90. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.64	3.62	7.75	30.00	-22.25
	5785	157	ax (20MHz)	26T	MCS0	4.55	4.79	7.68	30.00	-22.32
	5825	165	ax (20MHz)	26T	MCS0	4.89	5.09	8.00	30.00	-22.00
	5755	151	ax (40MHz)	26T	MCS0	5.53	6.76	9.20	30.00	-20.80
	5795	159	ax (40MHz)	26T	MCS0	4.48	5.92	8.27	30.00	-21.73
	5775	155	ax (80MHz)	26T	MCS0	5.51	5.16	8.35	30.00	-21.65

Table 7-91. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 288 of 413

Summed MIMO Power Spectral Density Measurements (Full Tones) – Q

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	2.29	1.97	5.14	11.00	-5.86
	5200	40	ax (20MHz)	242T	MCS0	2.17	2.03	5.11	11.00	-5.89
	5240	48	ax (20MHz)	242T	MCS0	2.89	2.23	5.58	11.00	-5.42
	5190	38	ax (40MHz)	484T	MCS0	0.36	-1.44	2.56	11.00	-8.44
	5230	46	ax (40MHz)	484T	MCS0	1.49	-0.63	3.57	11.00	-7.43
Band 2A	5210	42	ax (80MHz)	996T	MCS0	-3.36	-4.73	-0.98	11.00	-11.98
	5260	52	ax (20MHz)	242T	MCS0	3.60	2.27	6.00	11.00	-5.00
	5280	56	ax (20MHz)	242T	MCS0	3.64	2.17	5.98	11.00	-5.02
	5320	64	ax (20MHz)	242T	MCS0	3.61	2.35	6.04	11.00	-4.96
	5270	54	ax (40MHz)	484T	MCS0	-0.87	-0.22	2.48	11.00	-8.52
Band 2C	5310	62	ax (40MHz)	484T	MCS0	-1.22	-1.59	1.61	11.00	-9.39
	5290	58	ax (80MHz)	996T	MCS0	-6.36	-5.51	-2.90	11.00	-13.90
	5500	100	ax (20MHz)	242T	MCS0	3.13	3.25	6.20	11.00	-4.80
	5600	120	ax (20MHz)	242T	MCS0	2.27	2.79	5.55	11.00	-5.45
	5720	144	ax (20MHz)	242T	MCS0	3.39	2.52	5.99	11.00	-5.01
	5510	102	ax (40MHz)	484T	MCS0	0.14	-0.05	3.06	11.00	-7.94
	5590	118	ax (40MHz)	484T	MCS0	0.79	0.03	3.44	11.00	-7.56
	5710	142	ax (40MHz)	484T	MCS0	0.27	1.24	3.79	11.00	-7.21
5530	106	ax (80MHz)	996T	MCS0	-3.29	-3.79	-0.52	11.00	-11.52	
5610	122	ax (80MHz)	996T	MCS0	-3.10	-4.38	-0.68	11.00	-11.68	
5690	138	ax (80MHz)	996T	MCS0	-1.62	-0.41	2.04	11.00	-8.96	

Table 7-92. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.03	0.07	4.17	30.00	-25.83
	5785	157	ax (20MHz)	242T	MCS0	0.60	0.69	3.66	30.00	-26.34
	5825	165	ax (20MHz)	242T	MCS0	0.92	1.35	4.15	30.00	-25.85
	5755	151	ax (40MHz)	484T	MCS0	-1.87	0.29	2.35	30.00	-27.65
	5795	159	ax (40MHz)	484T	MCS0	-1.61	-0.84	1.80	30.00	-28.20
	5775	155	ax (80MHz)	996T	MCS0	-3.49	-3.50	-0.48	30.00	-30.48

Table 7-93. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

Note:

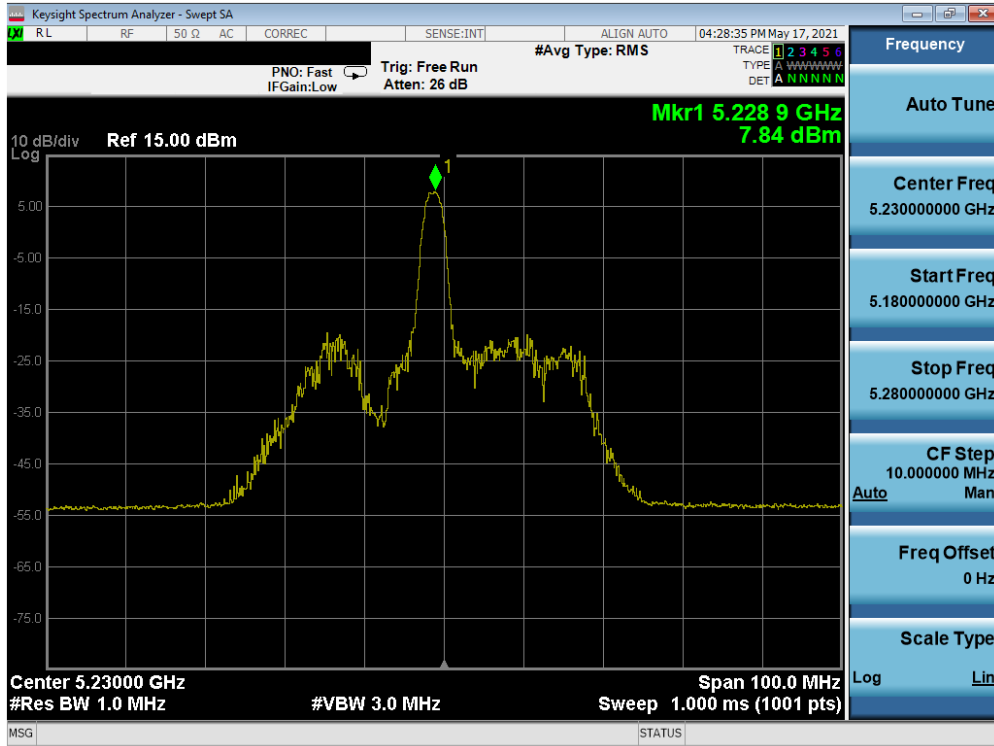
Sample MIMO Calculation:

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

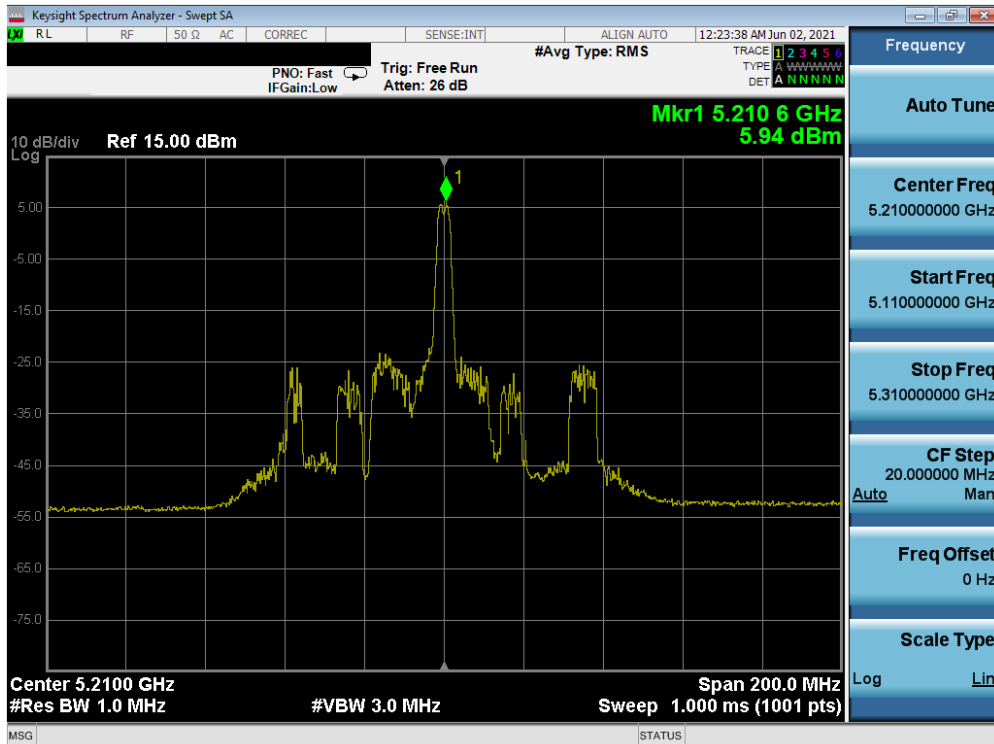
$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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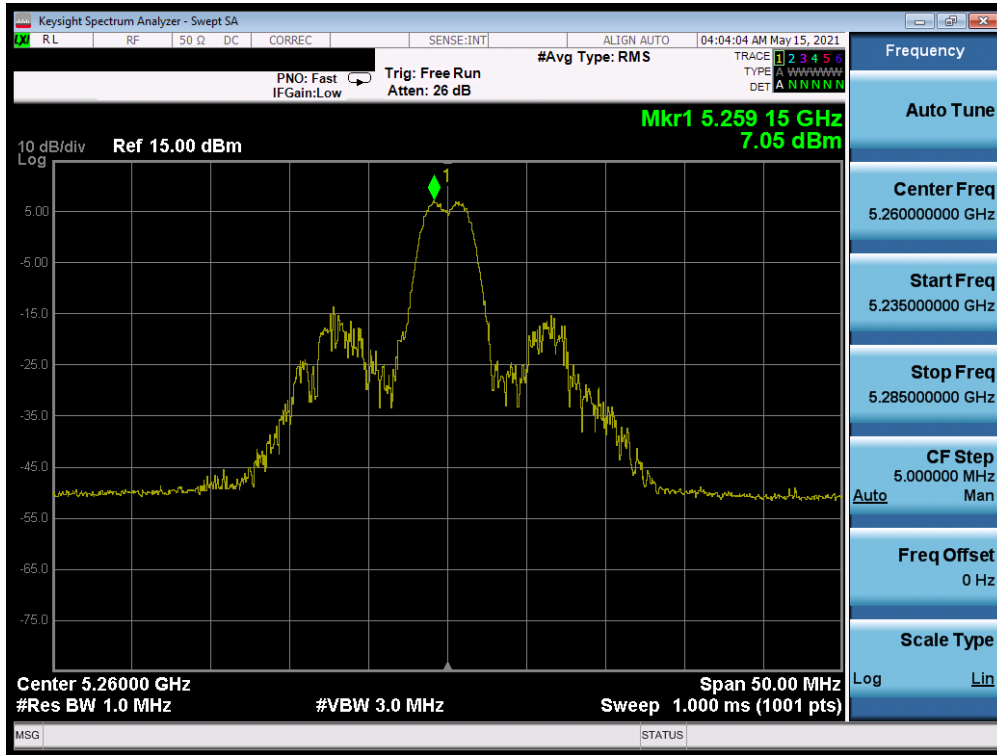


Plot 7-437. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

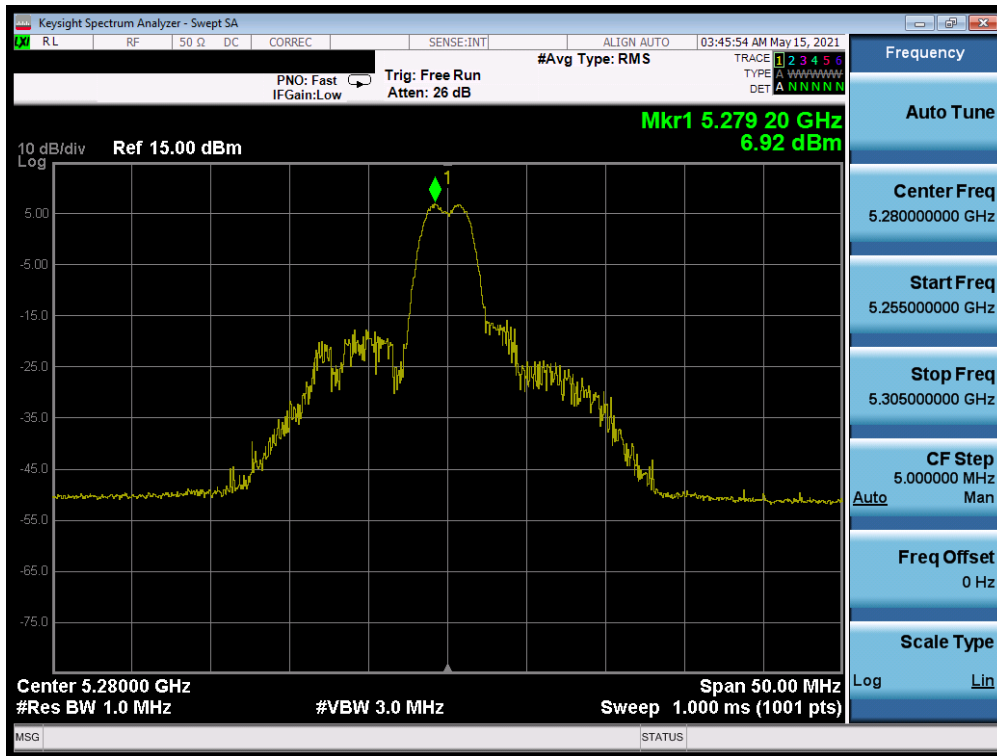


Plot 7-438. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 292 of 413

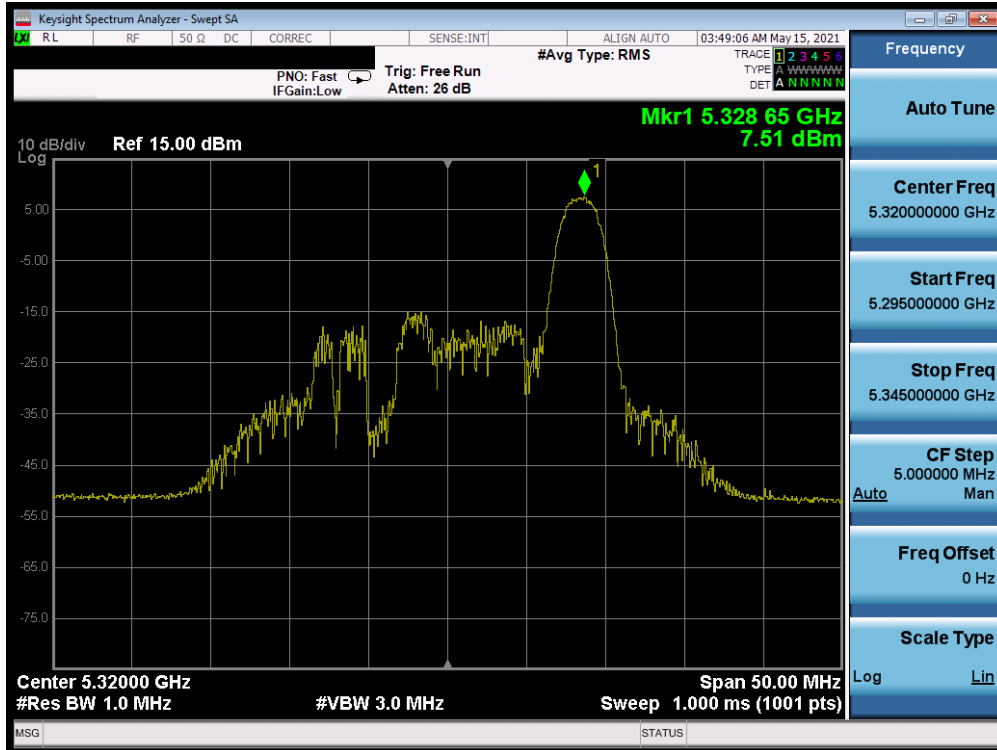


Plot 7-439. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

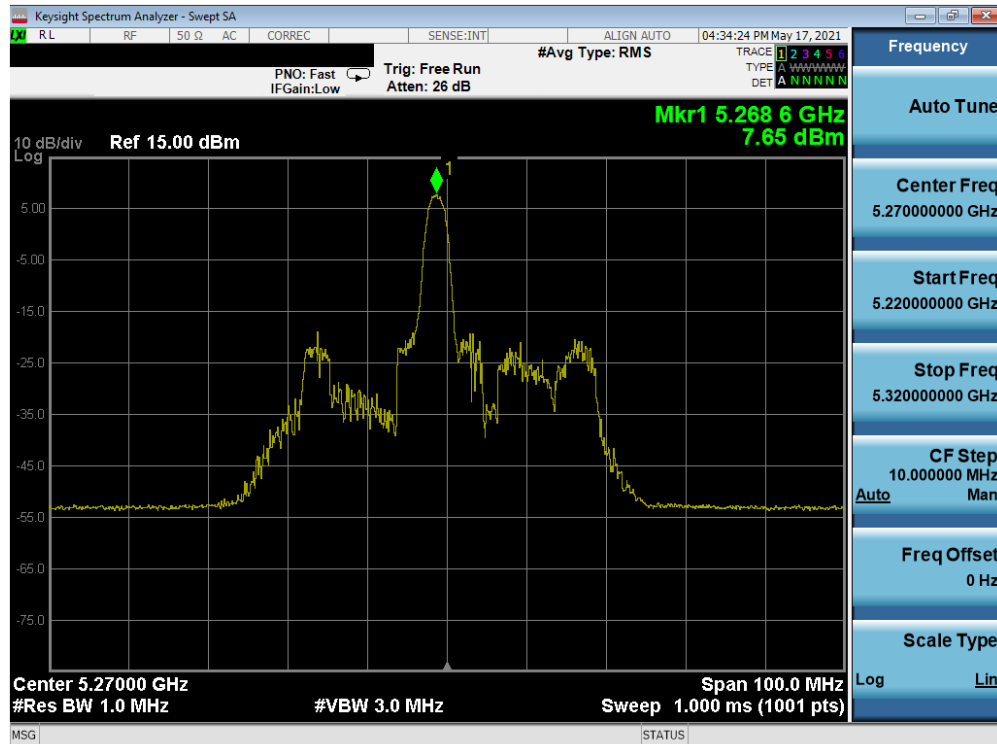


Plot 7-440. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 293 of 413

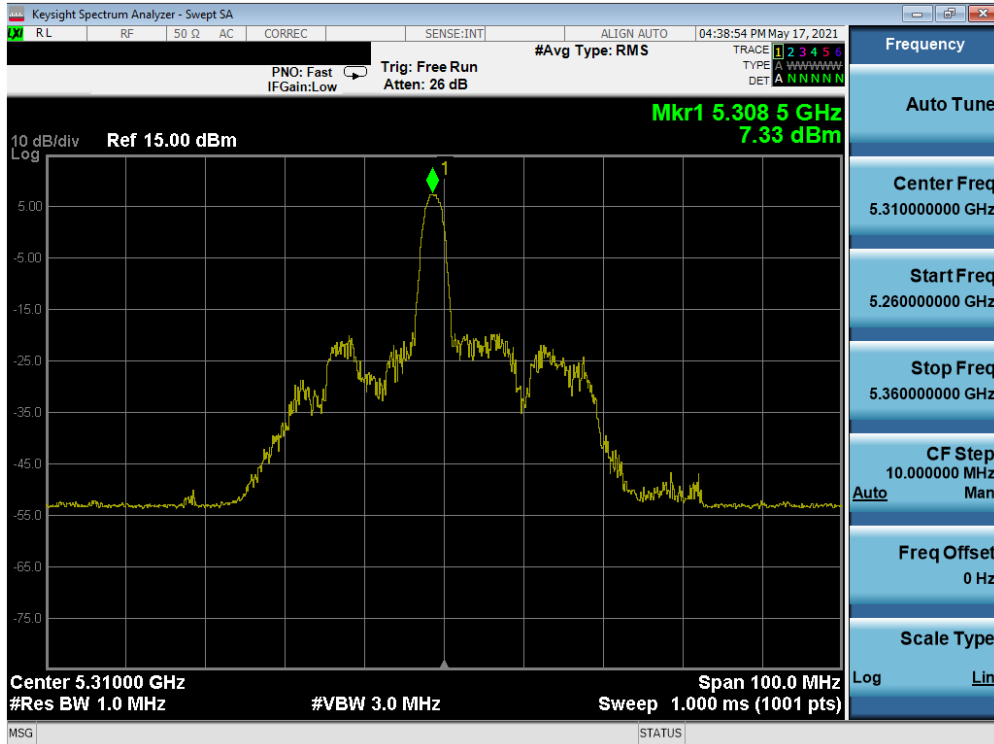


Plot 7-441. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

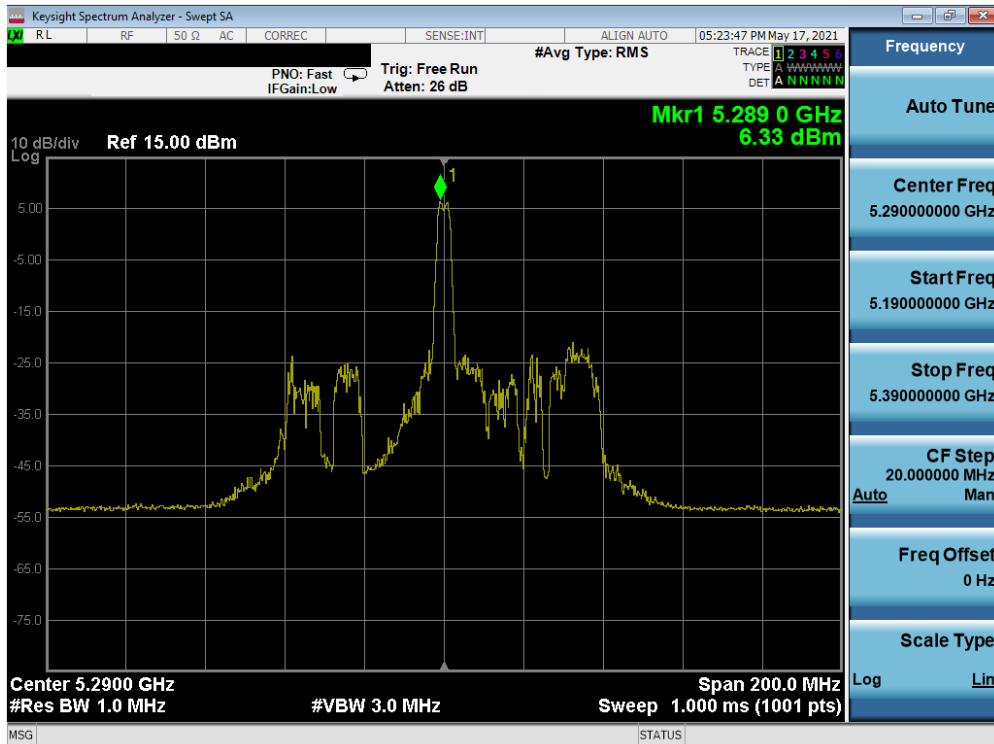


Plot 7-442. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 294 of 413

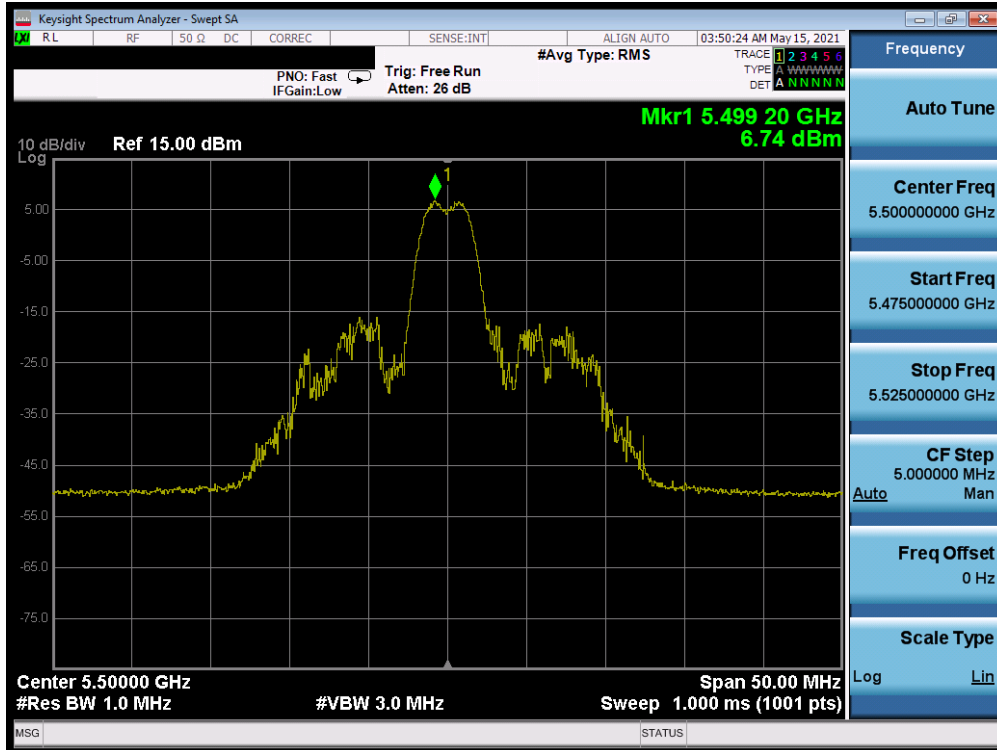


Plot 7-443. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

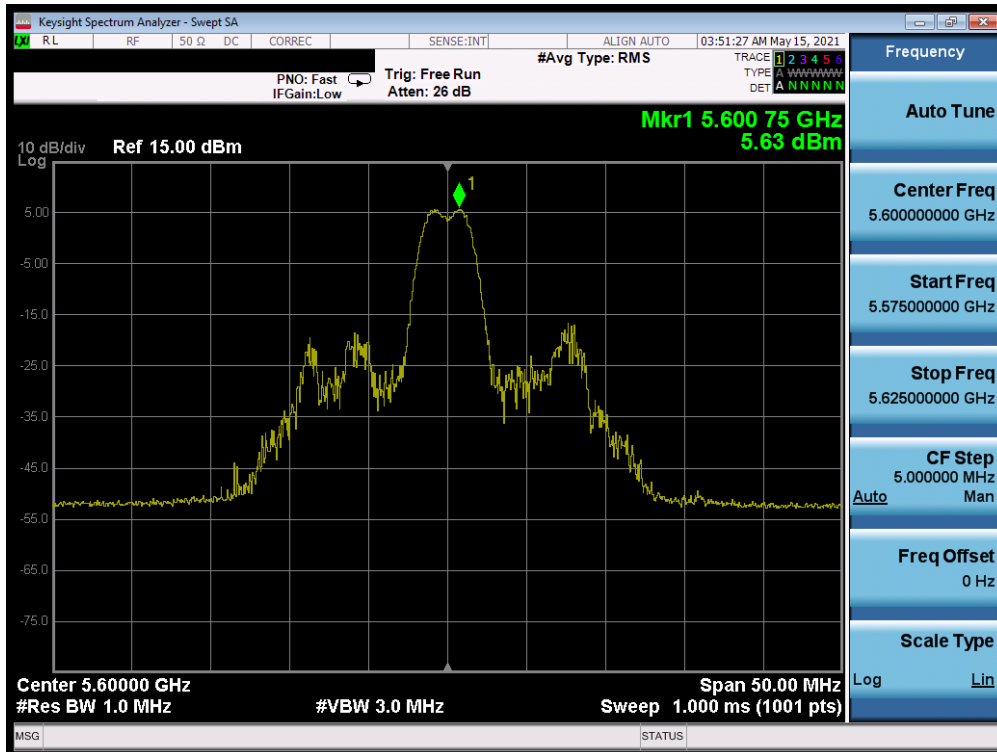


Plot 7-444. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 295 of 413

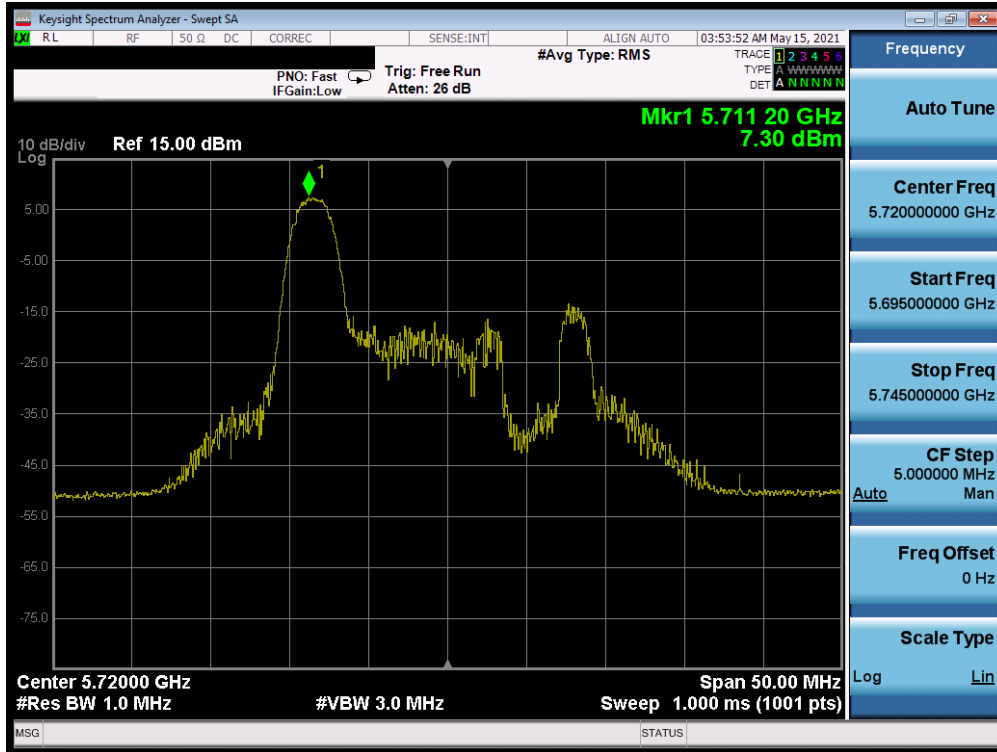


Plot 7-445. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

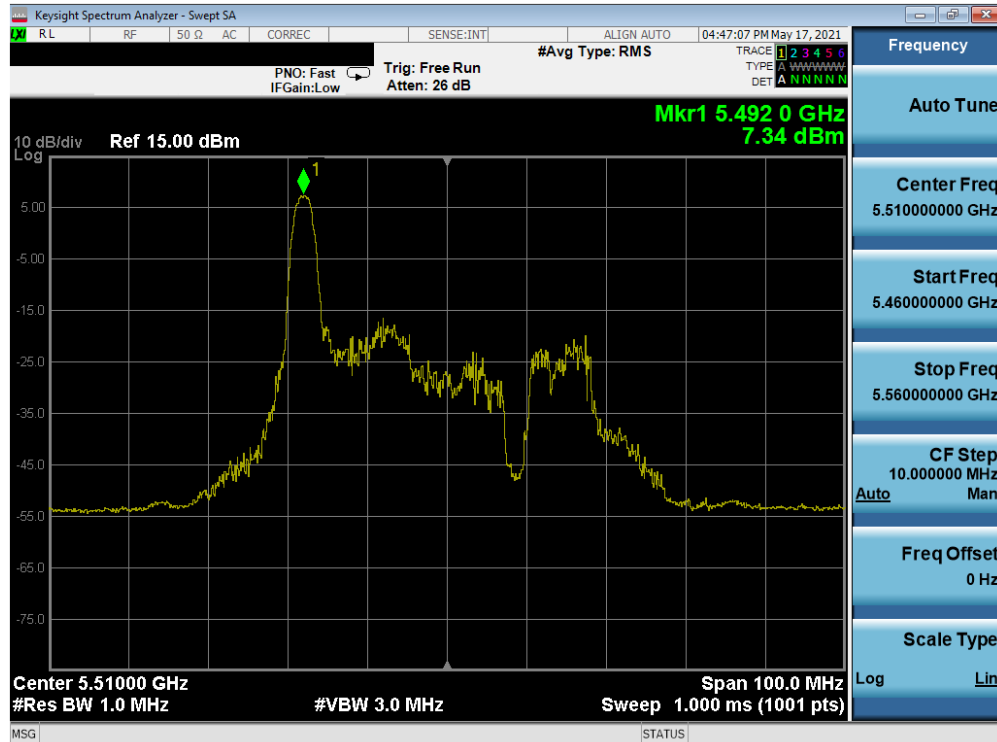


Plot 7-446. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 296 of 413

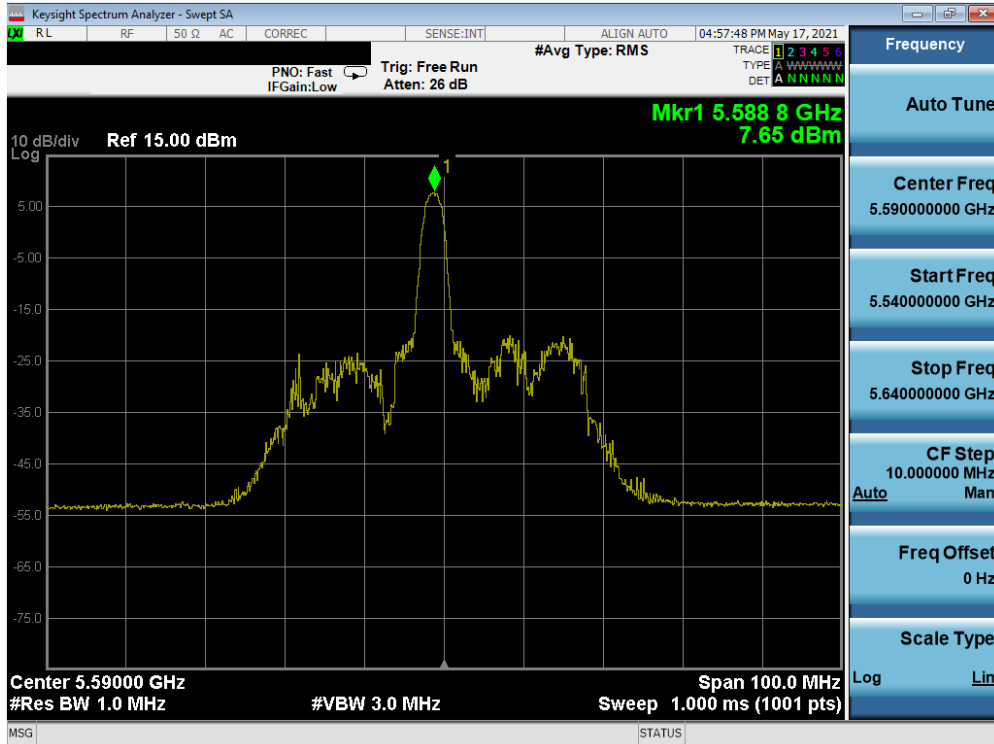


Plot 7-447. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

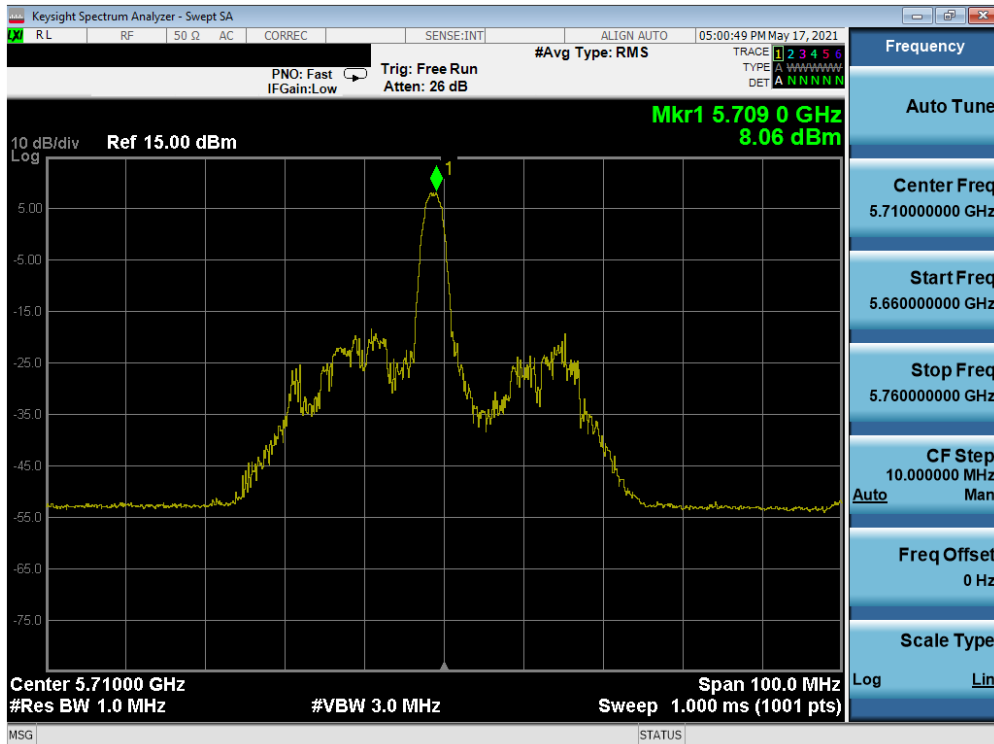


Plot 7-448. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 297 of 413

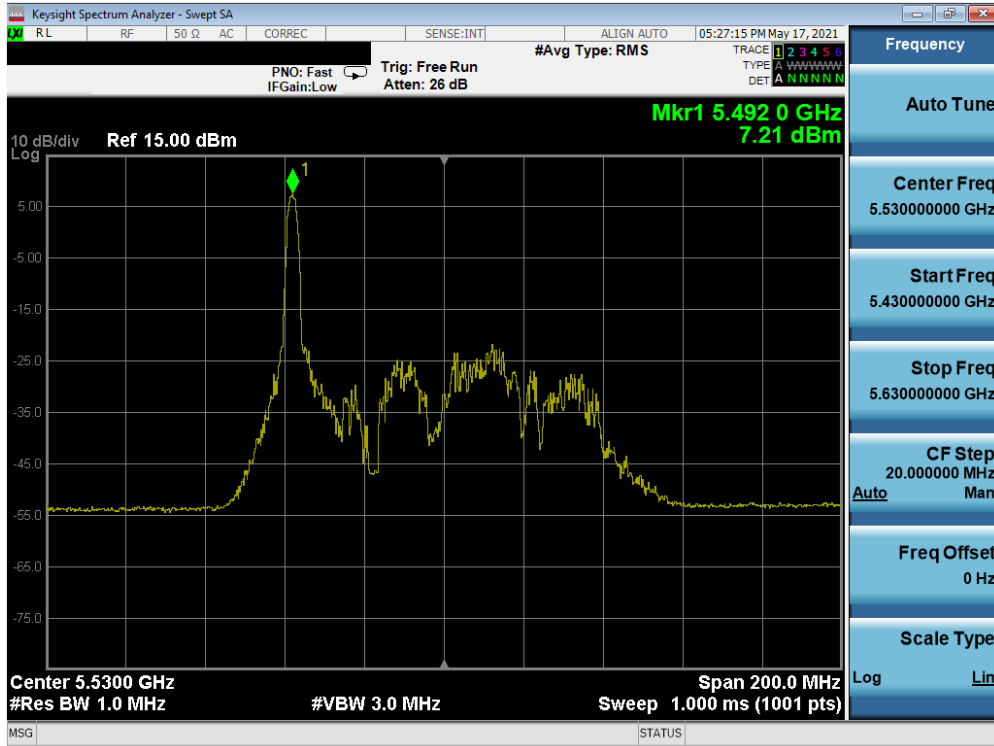


Plot 7-449. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

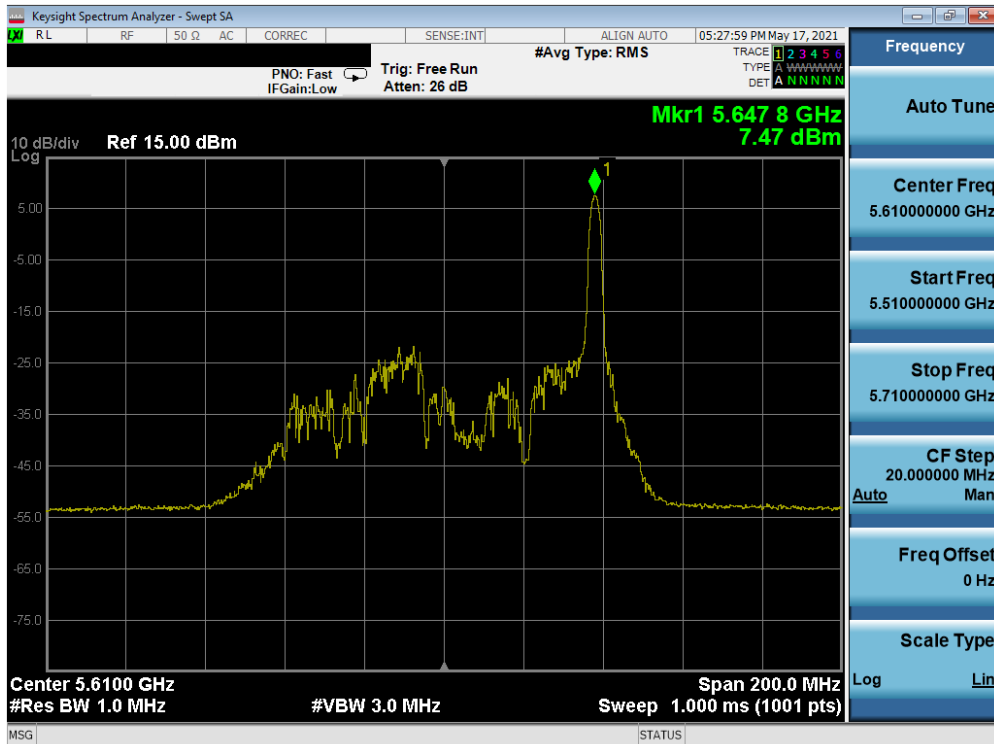


Plot 7-450. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 298 of 413

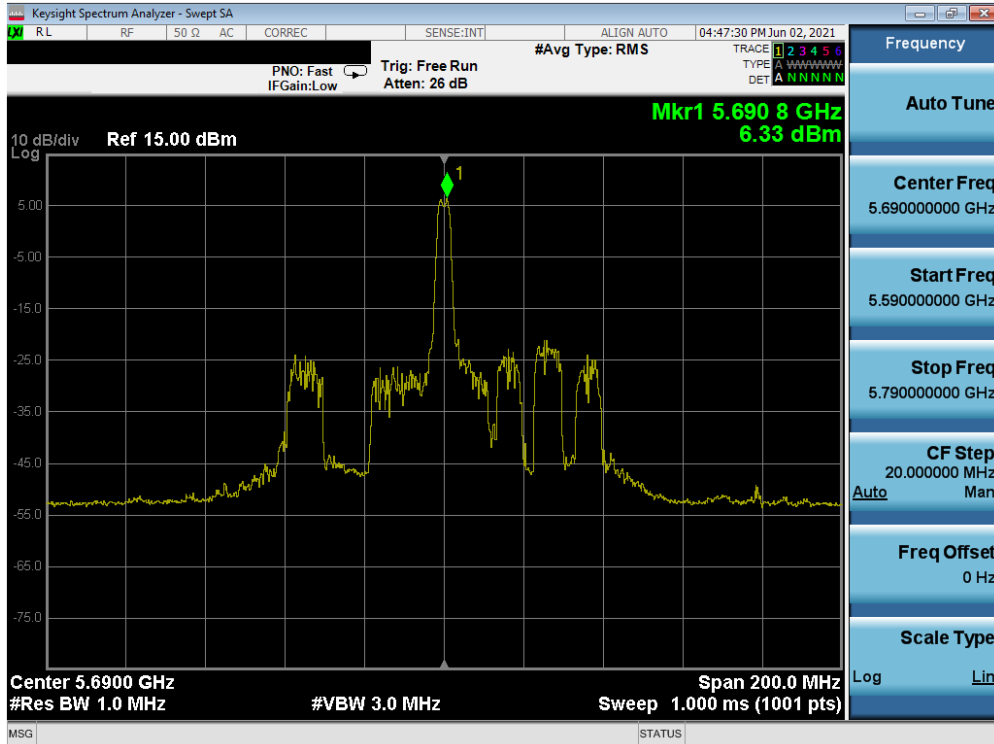


Plot 7-451. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

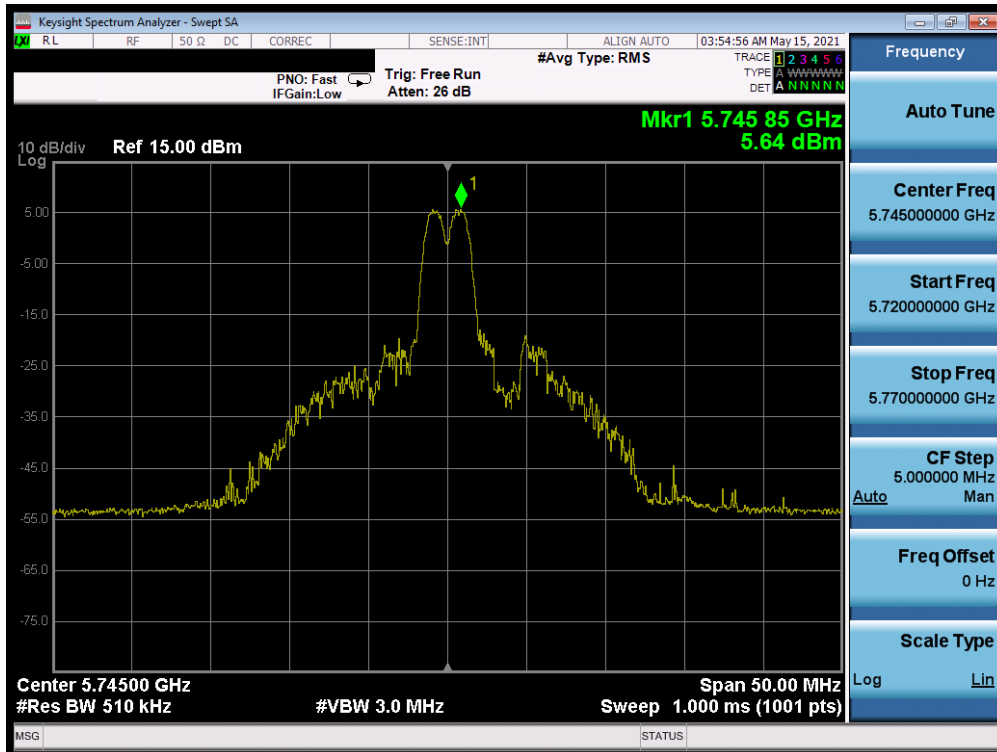


Plot 7-452. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 299 of 413

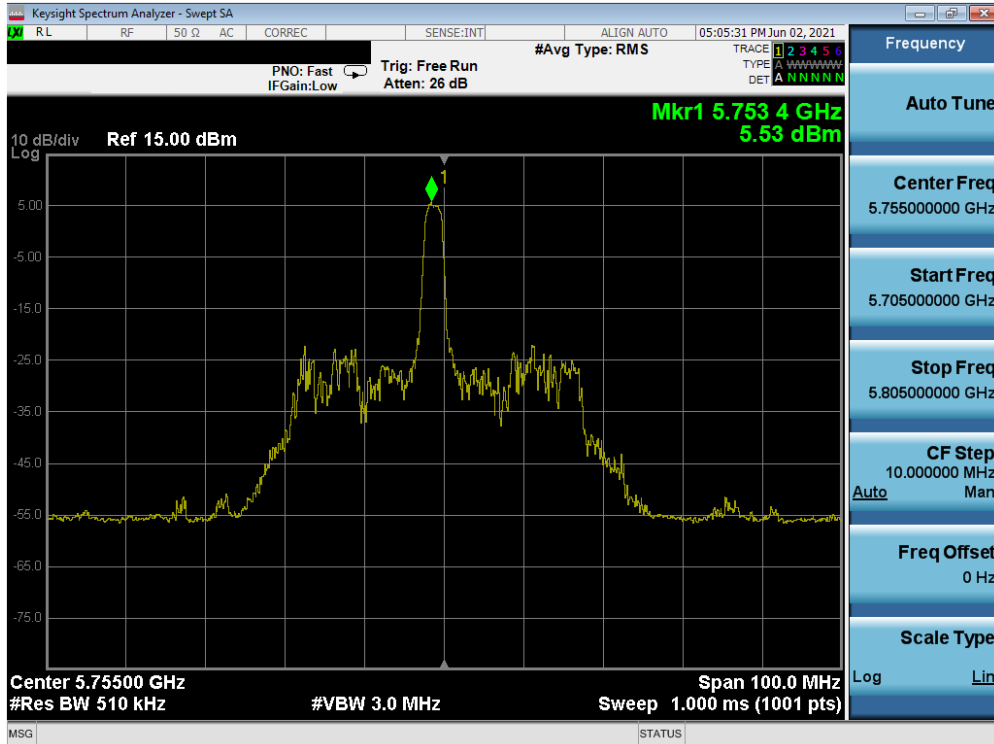


Plot 7-453. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

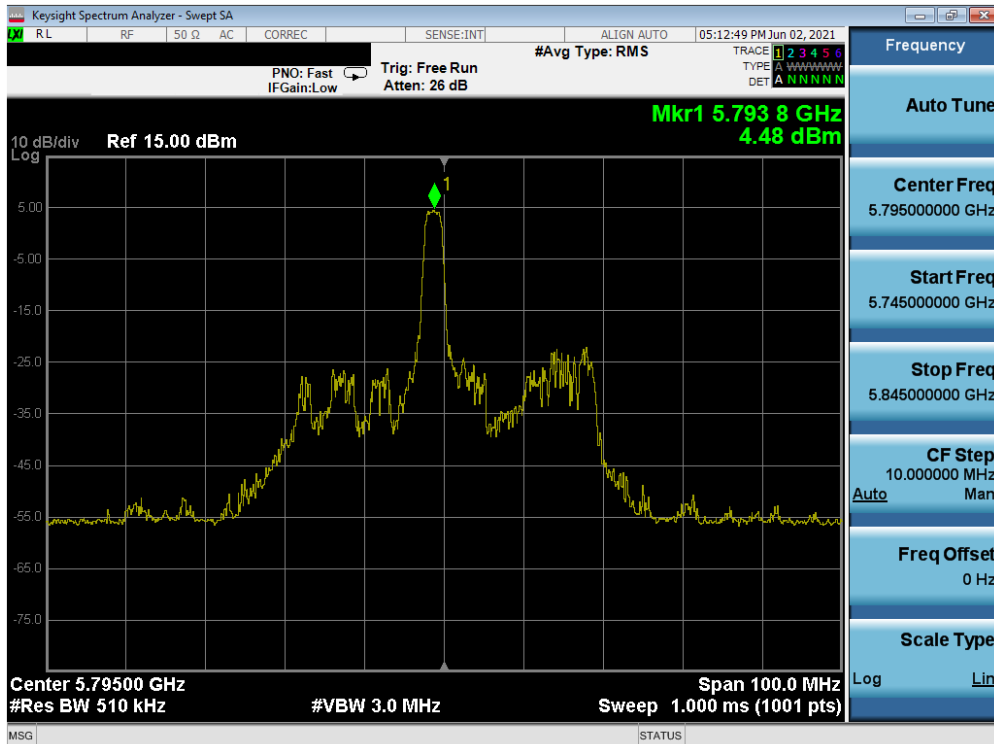


Plot 7-454. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 300 of 413

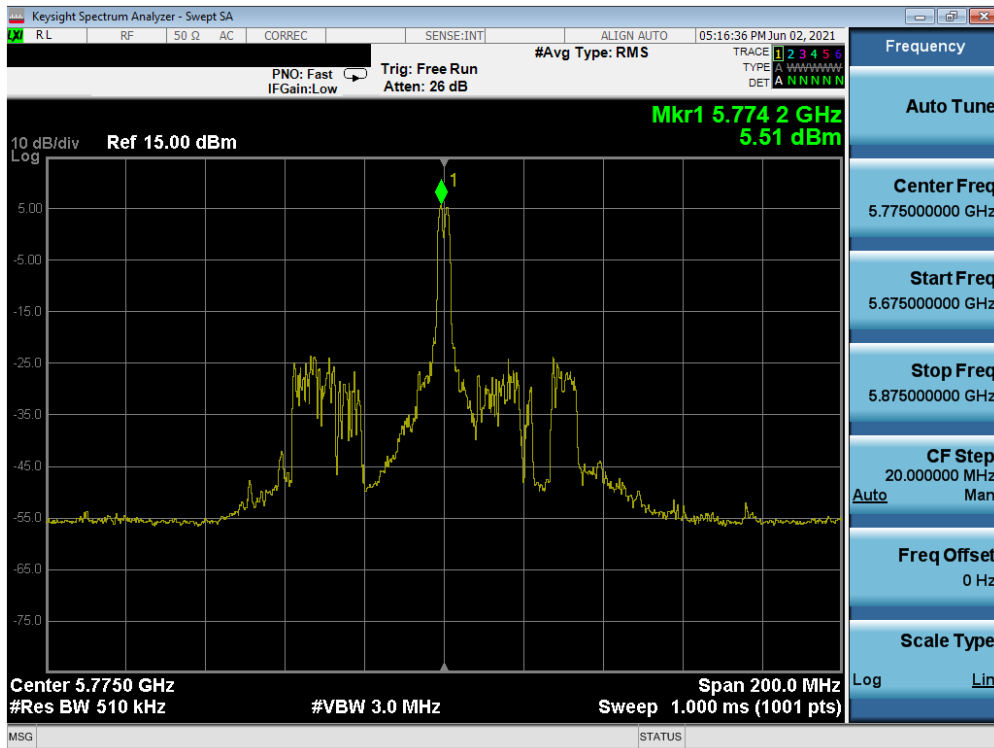


Plot 7-457. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-458. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

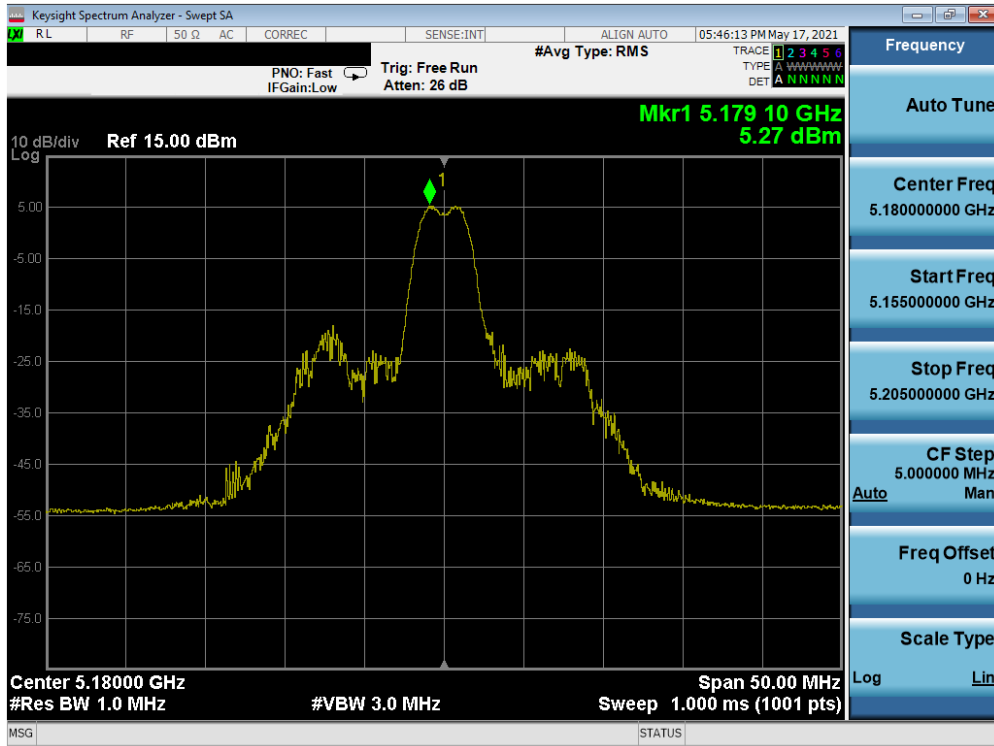
FCC ID: A3LSMF711U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 302 of 413



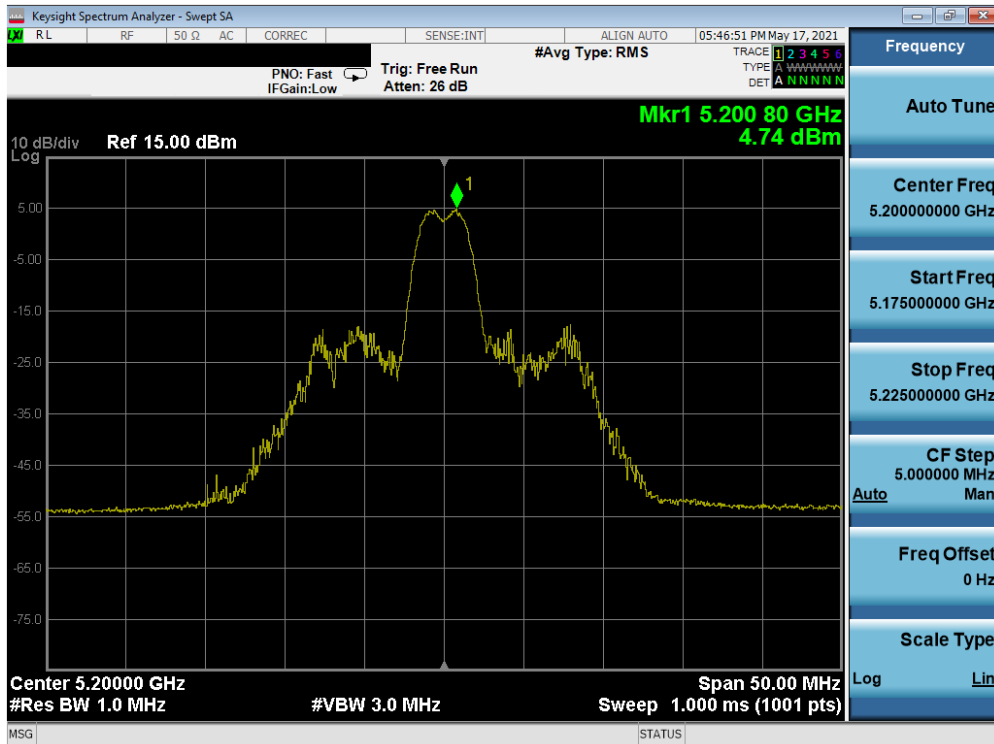
Plot 7-459. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 303 of 413

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

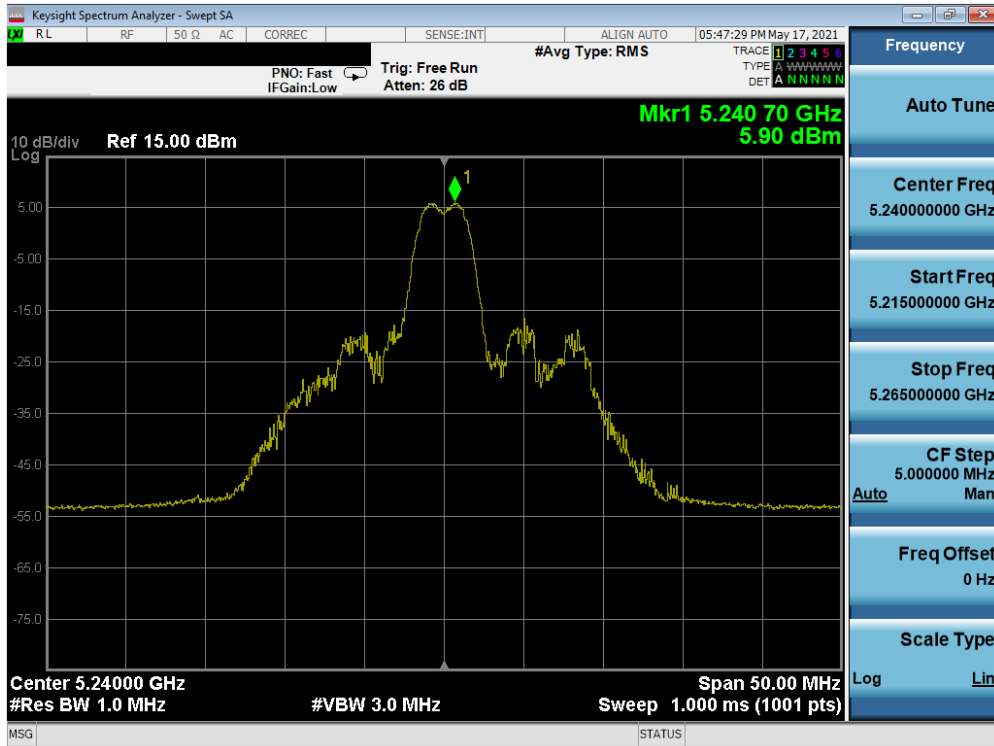


Plot 7-460. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

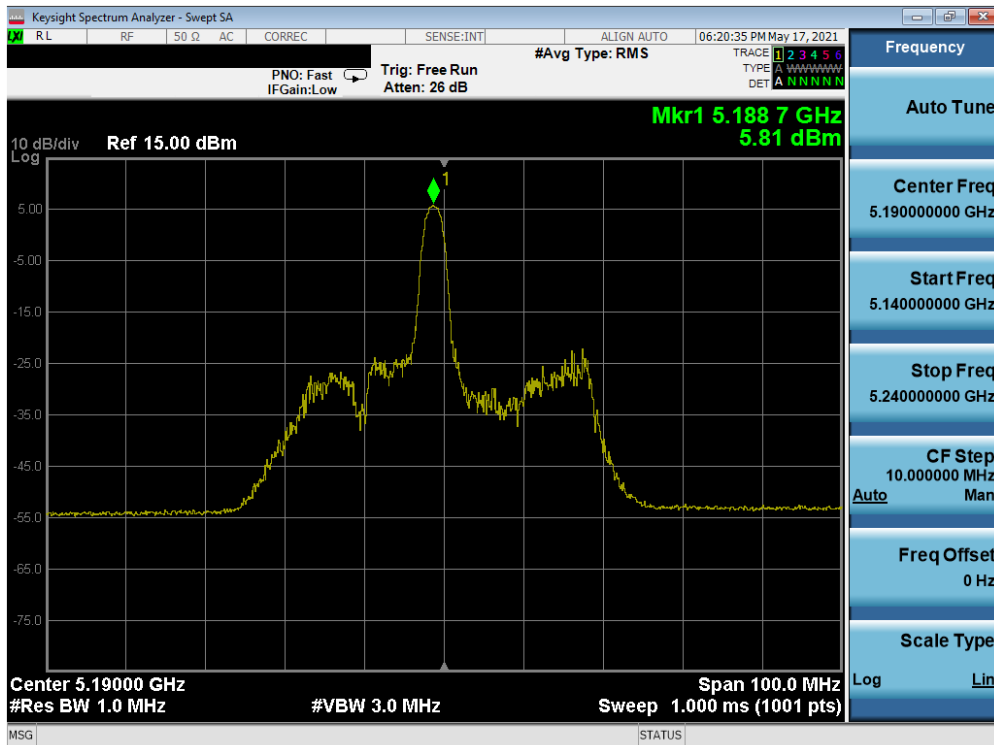


Plot 7-461. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 304 of 413

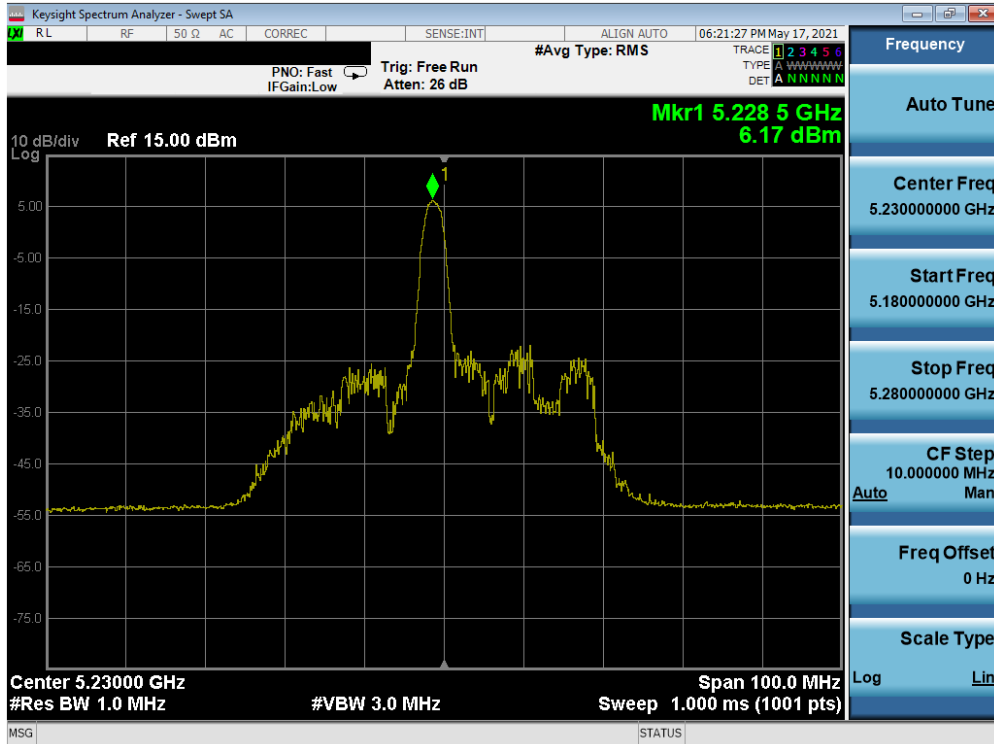


Plot 7-462. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

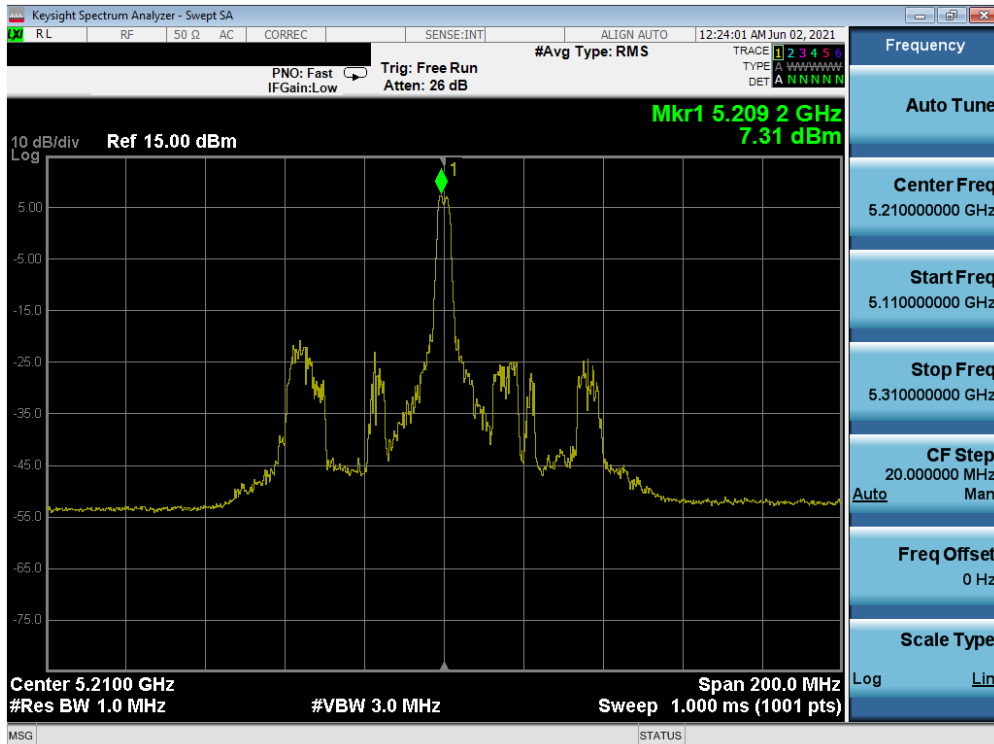


Plot 7-463. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 305 of 413

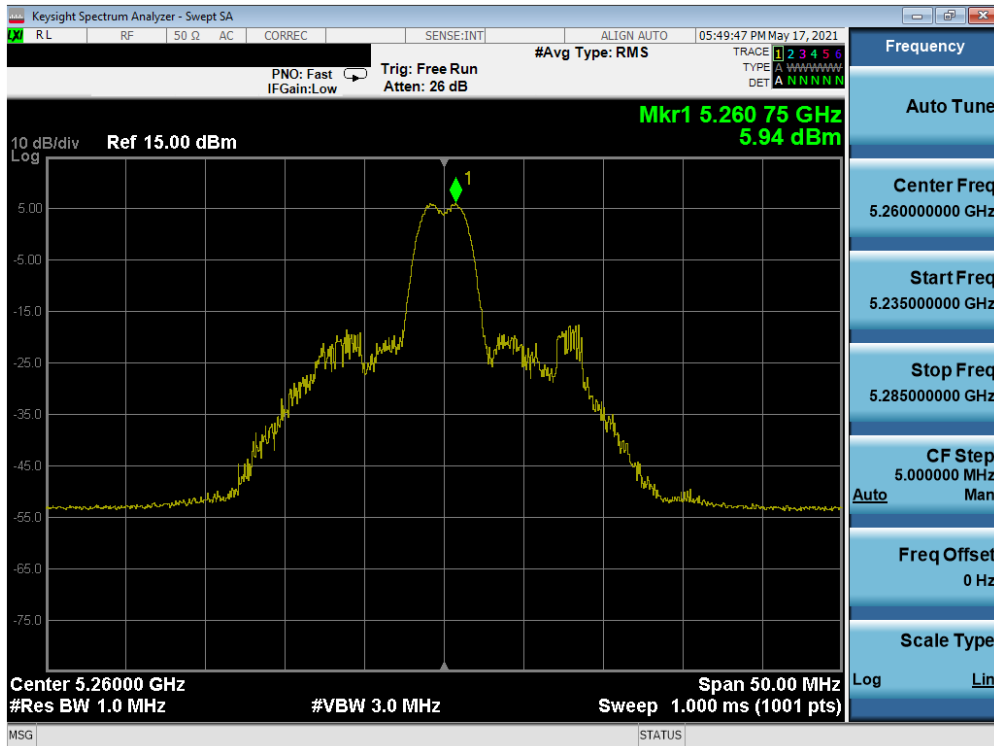


Plot 7-464. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

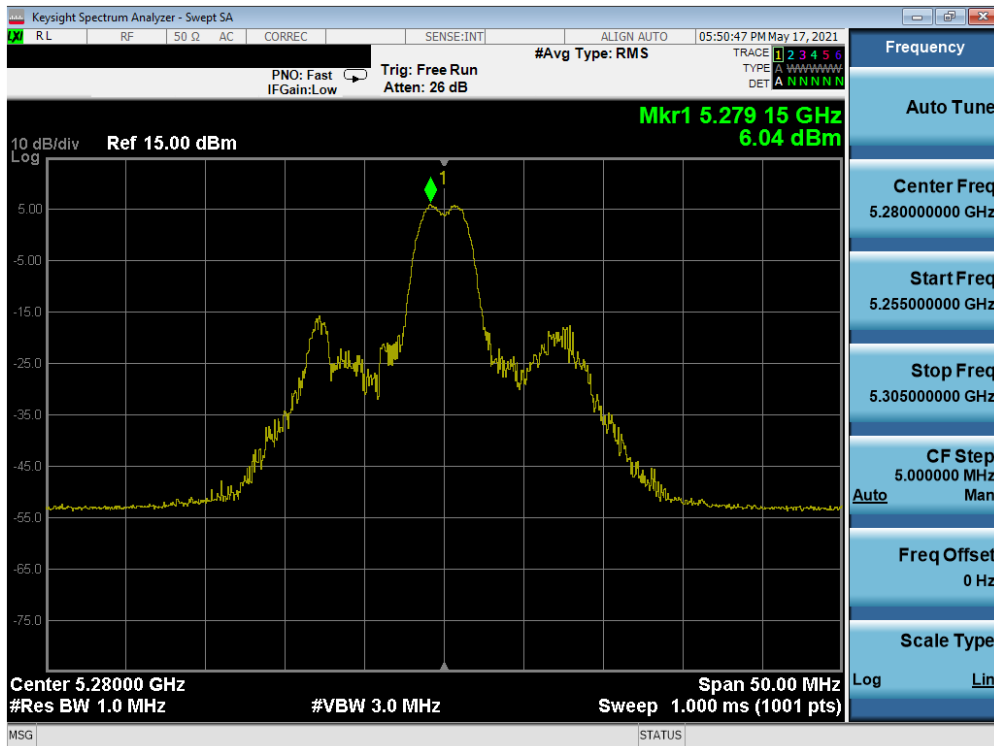


Plot 7-465. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 306 of 413

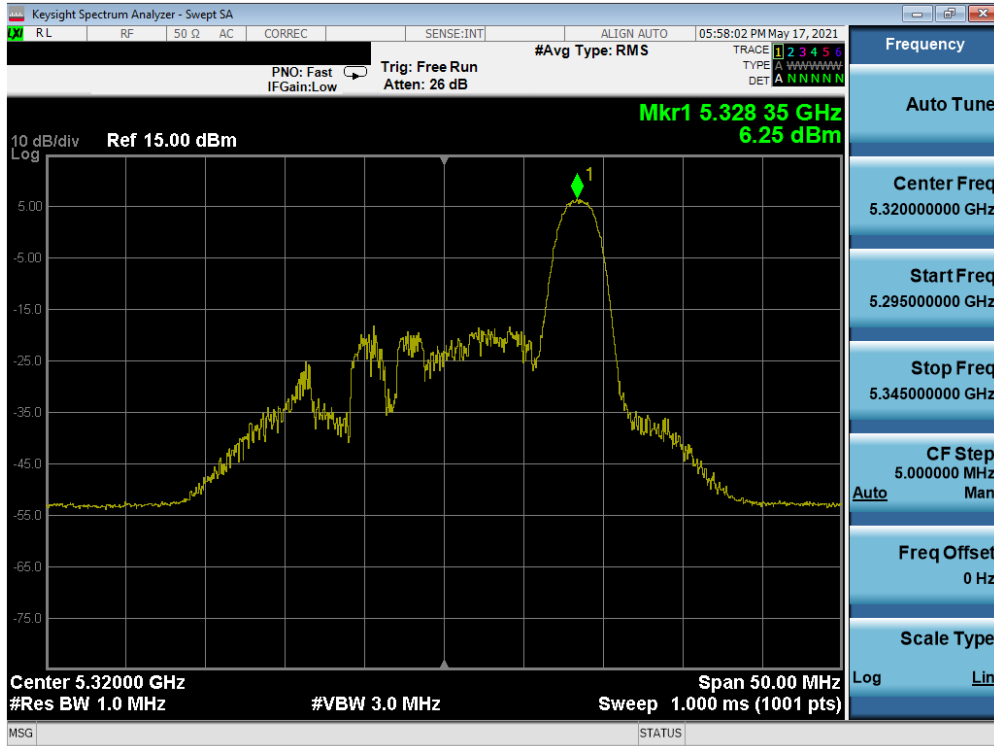


Plot 7-466. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

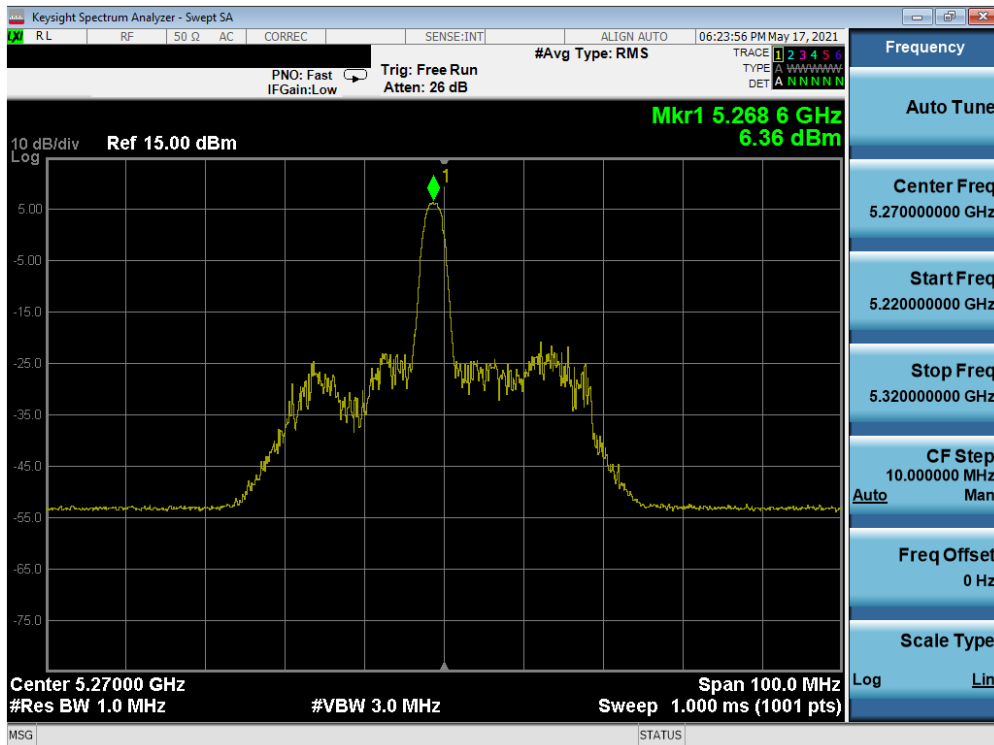


Plot 7-467. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 307 of 413

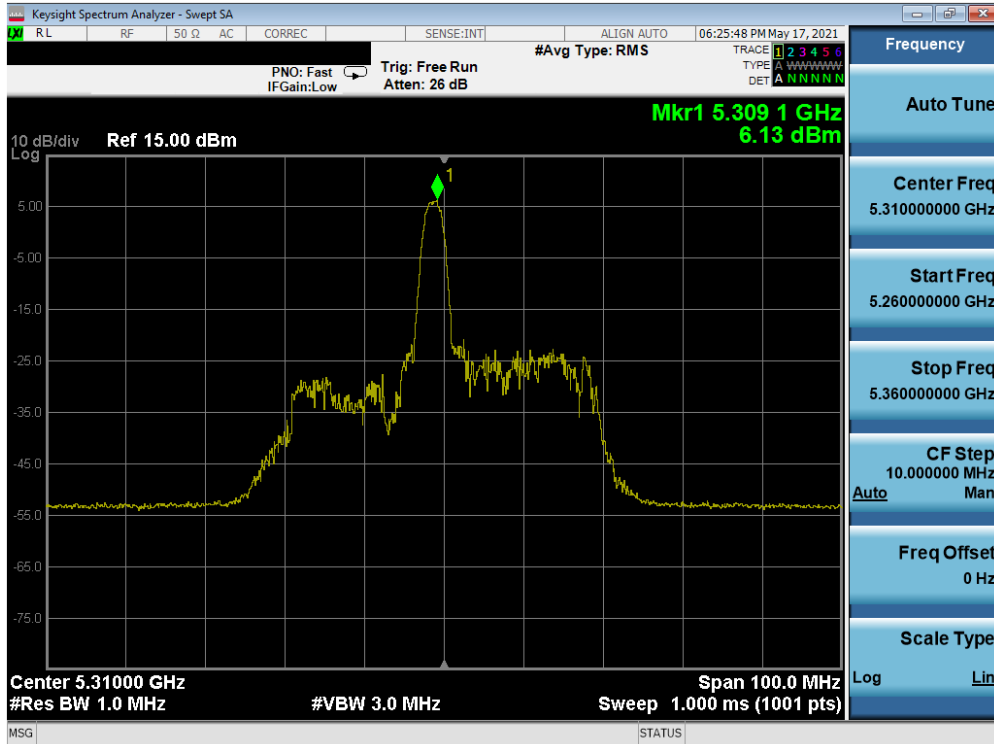


Plot 7-468. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

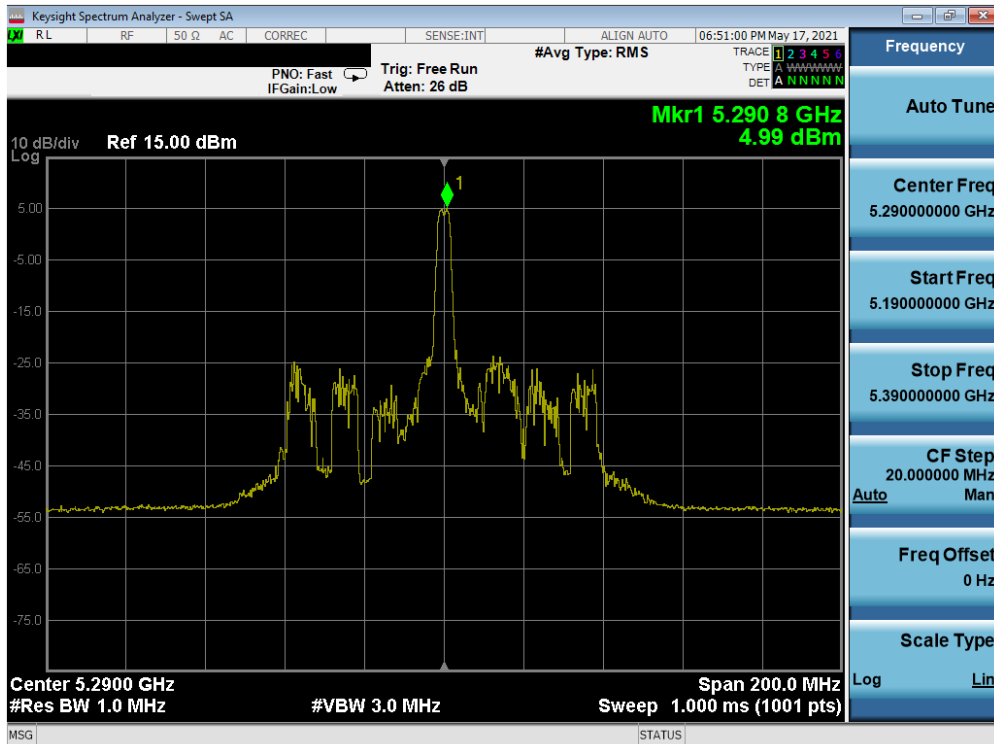


Plot 7-469. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 308 of 413

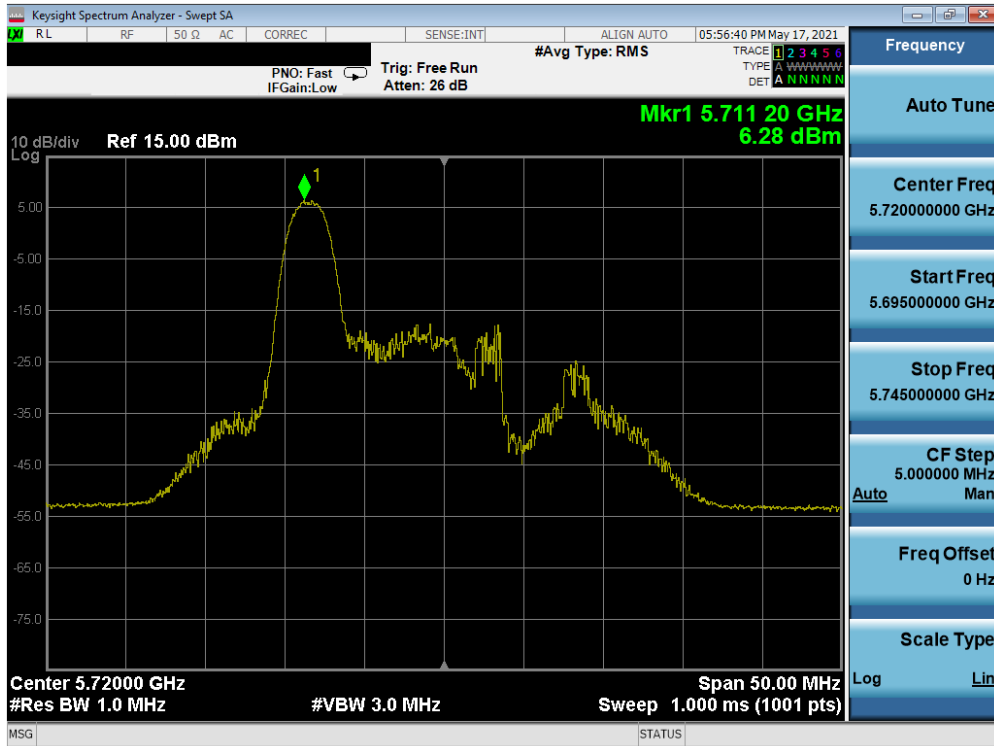


Plot 7-470. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

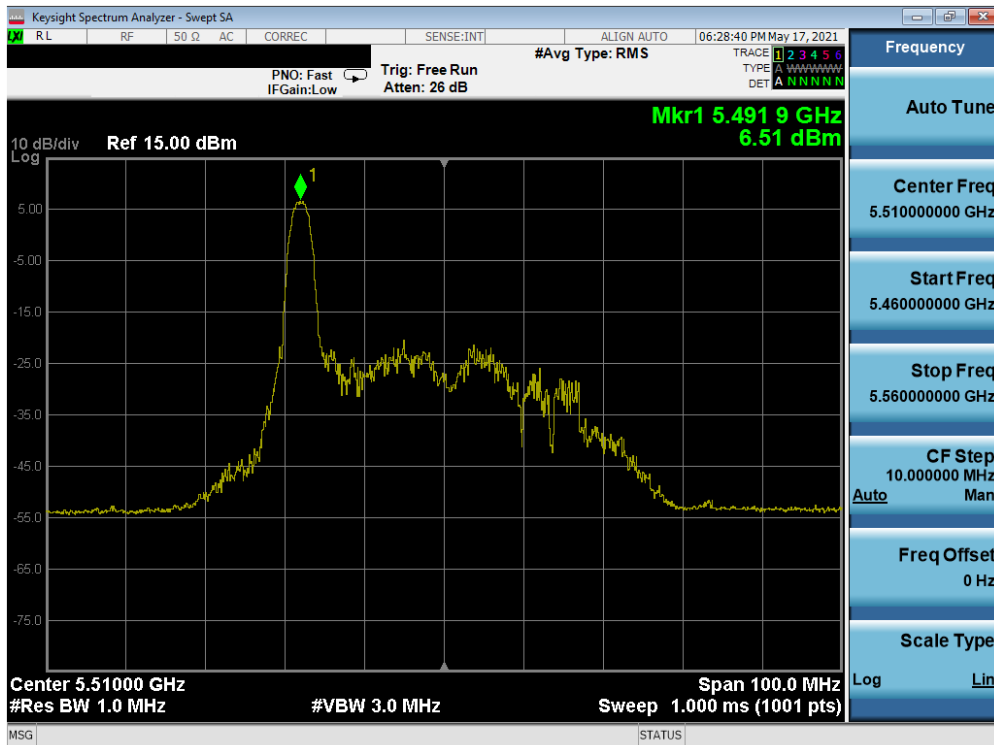


Plot 7-471. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 309 of 413

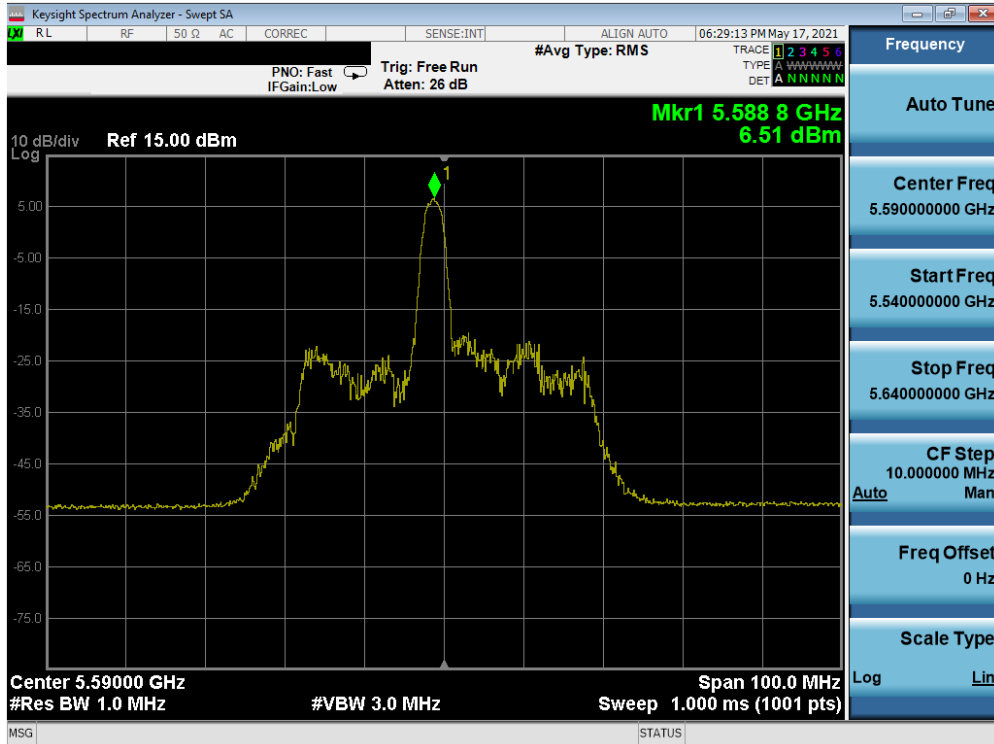


Plot 7-474. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

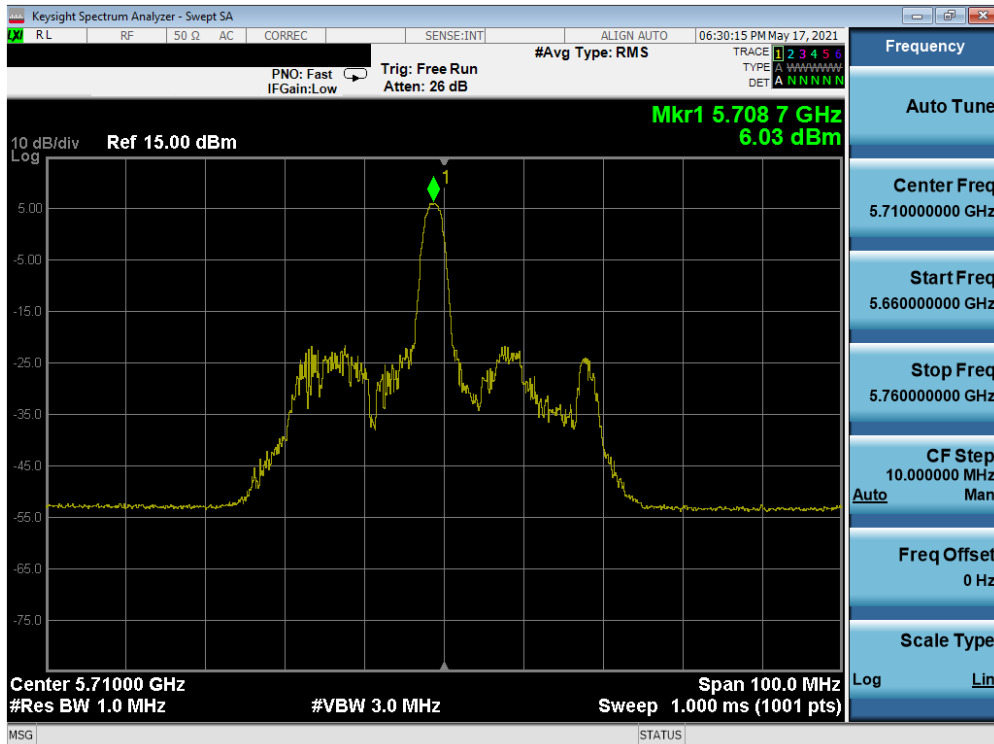


Plot 7-475. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 311 of 413

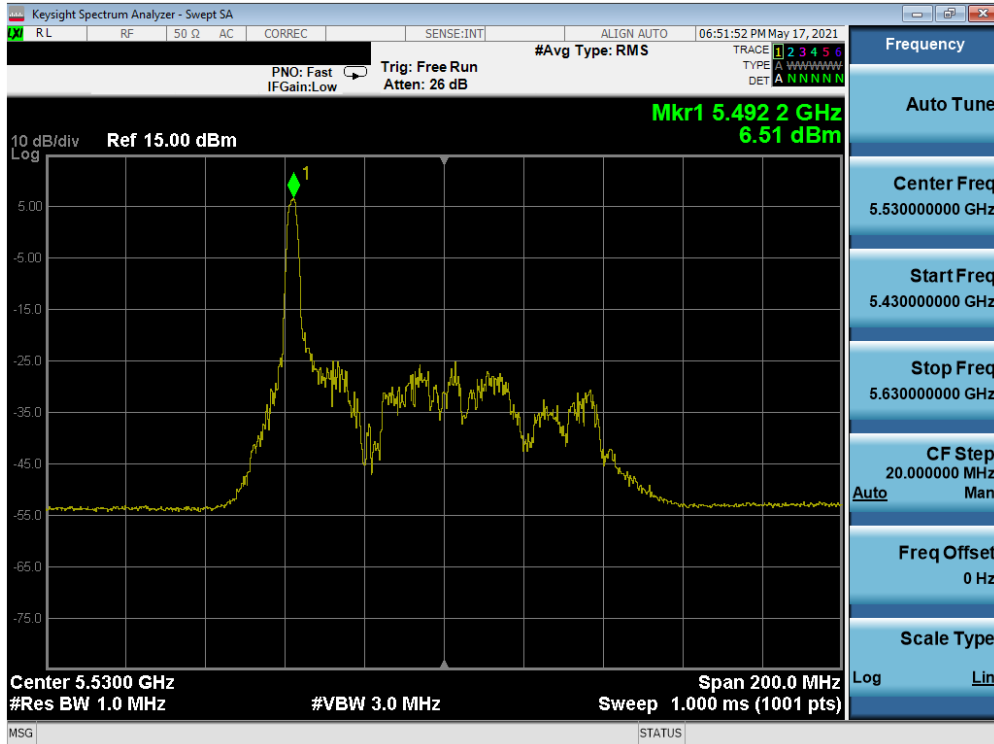


Plot 7-476. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

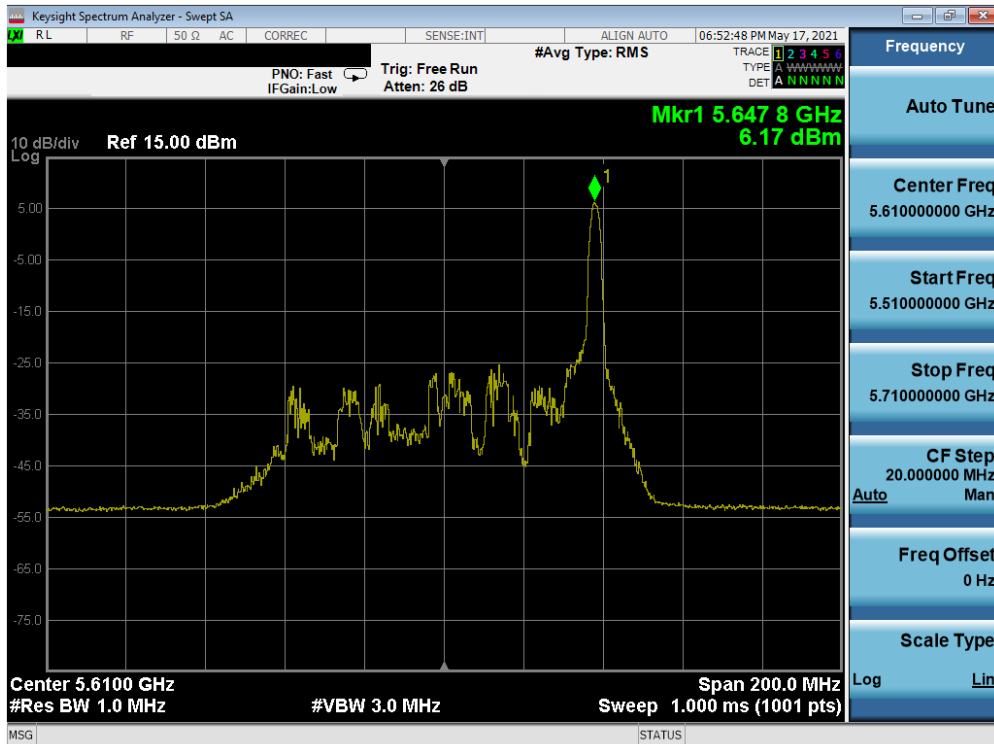


Plot 7-477. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 312 of 413

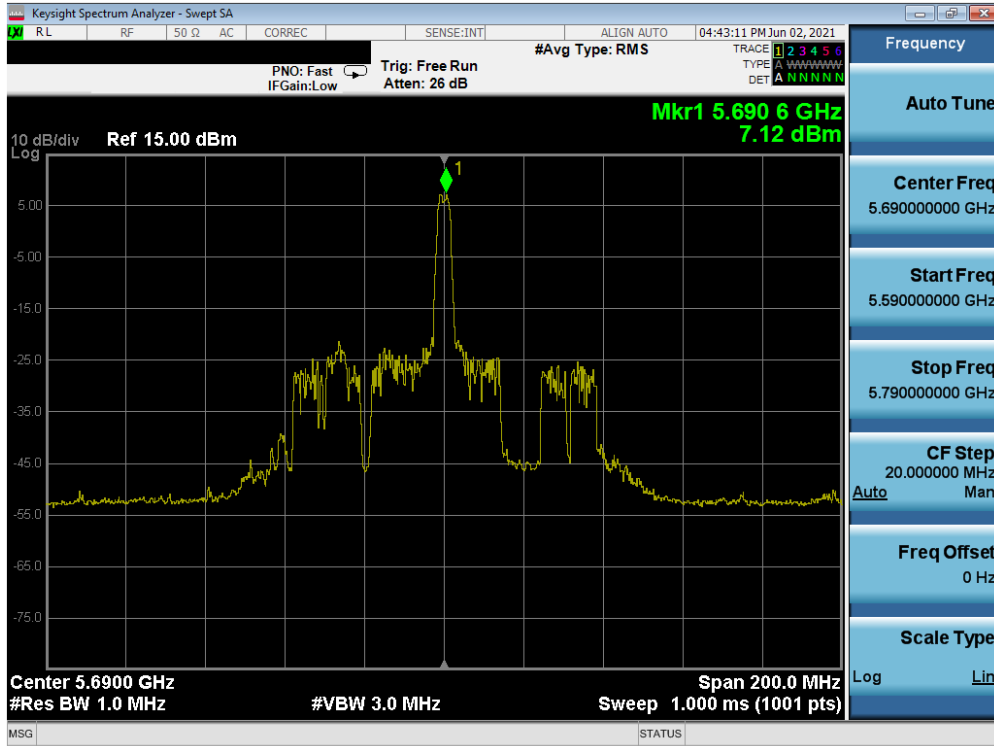


Plot 7-478. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

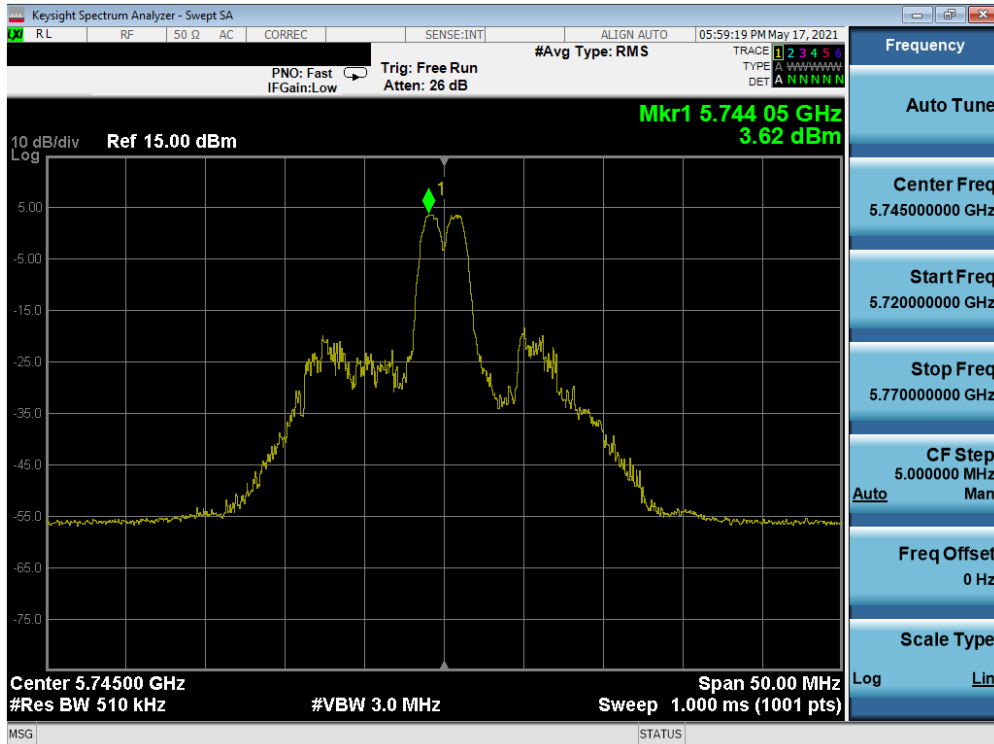


Plot 7-479. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 313 of 413

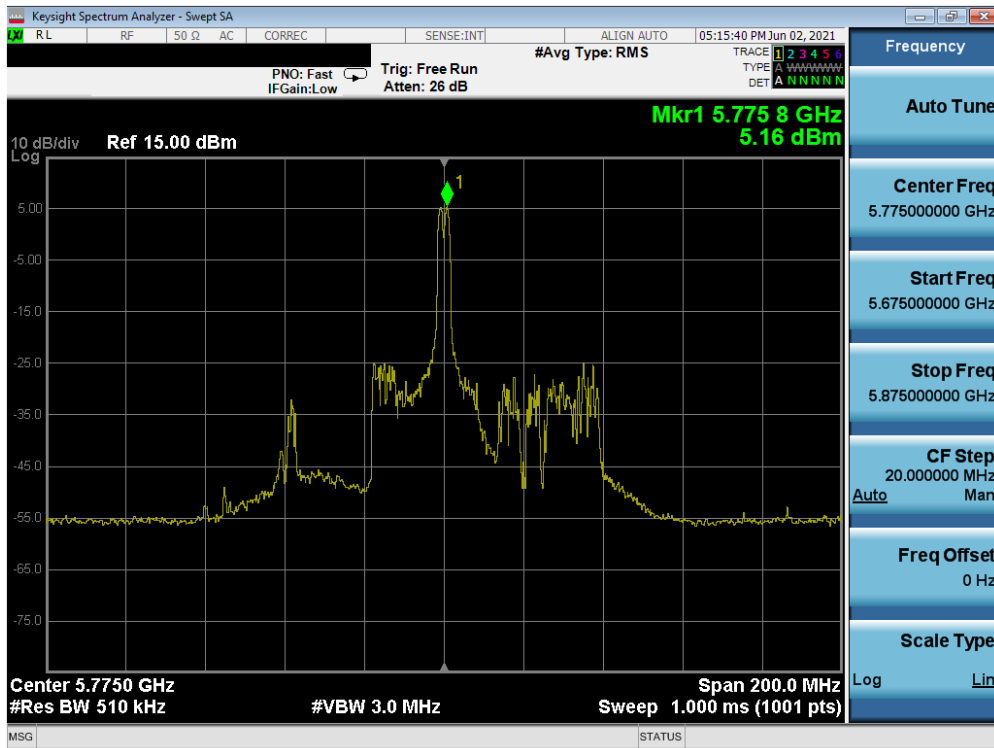


Plot 7-480. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-481. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

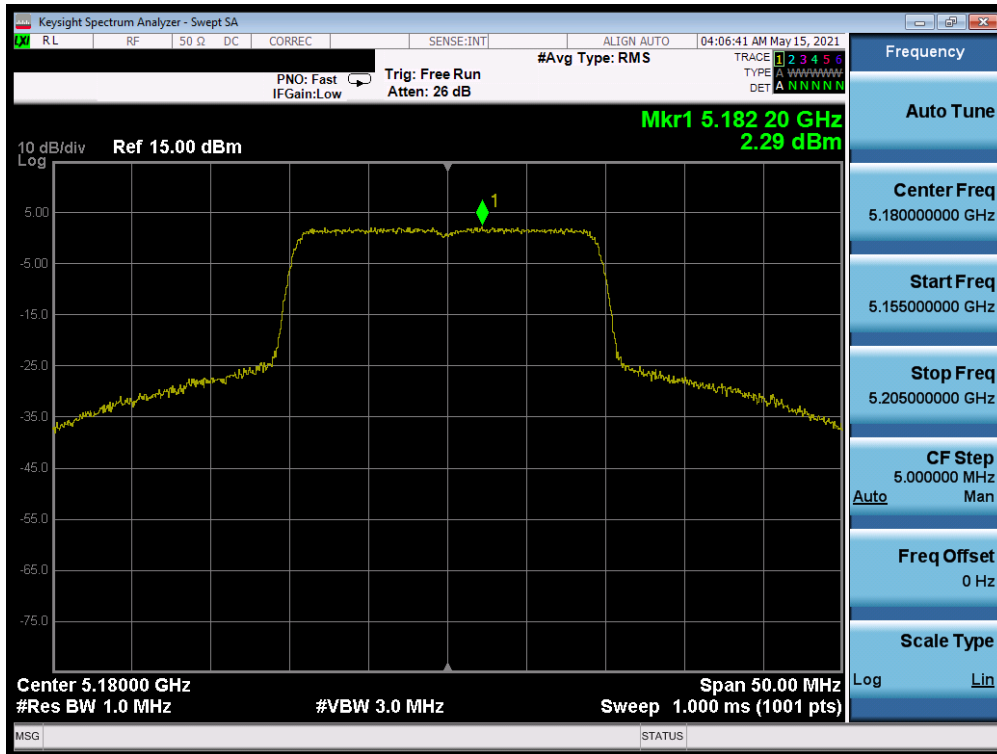
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 314 of 413



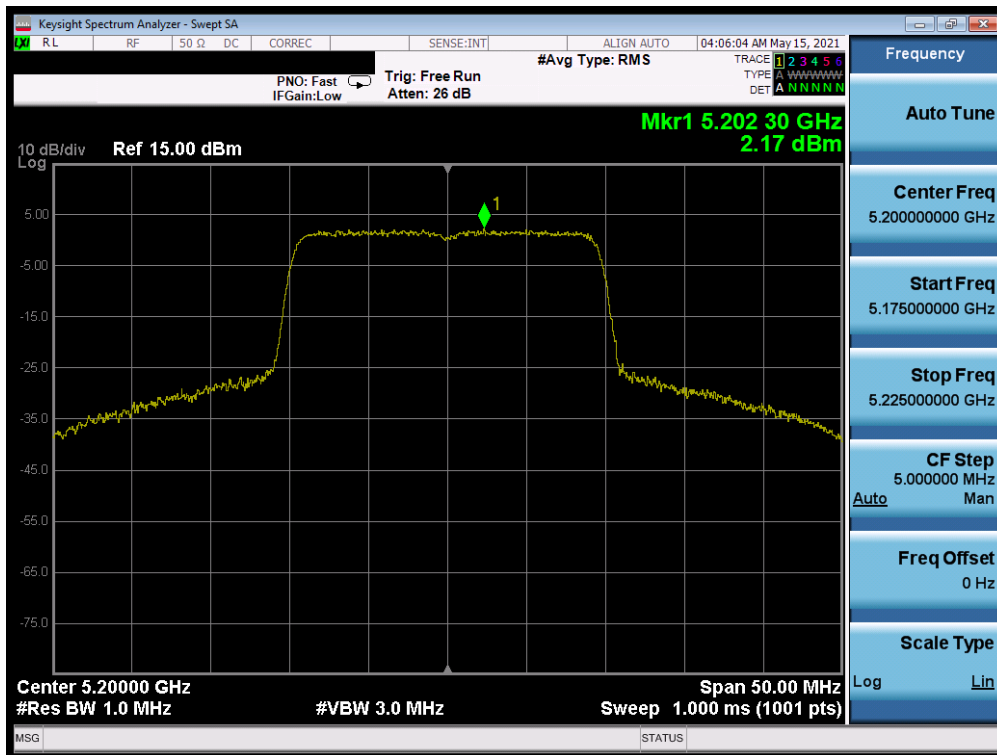
Plot 7-486. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 317 of 413

MIMO Antenna-1 Power Spectral Density Measurements (Full Tones) – Q



Plot 7-487. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)



Plot 7-488. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-15.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 318 of 413