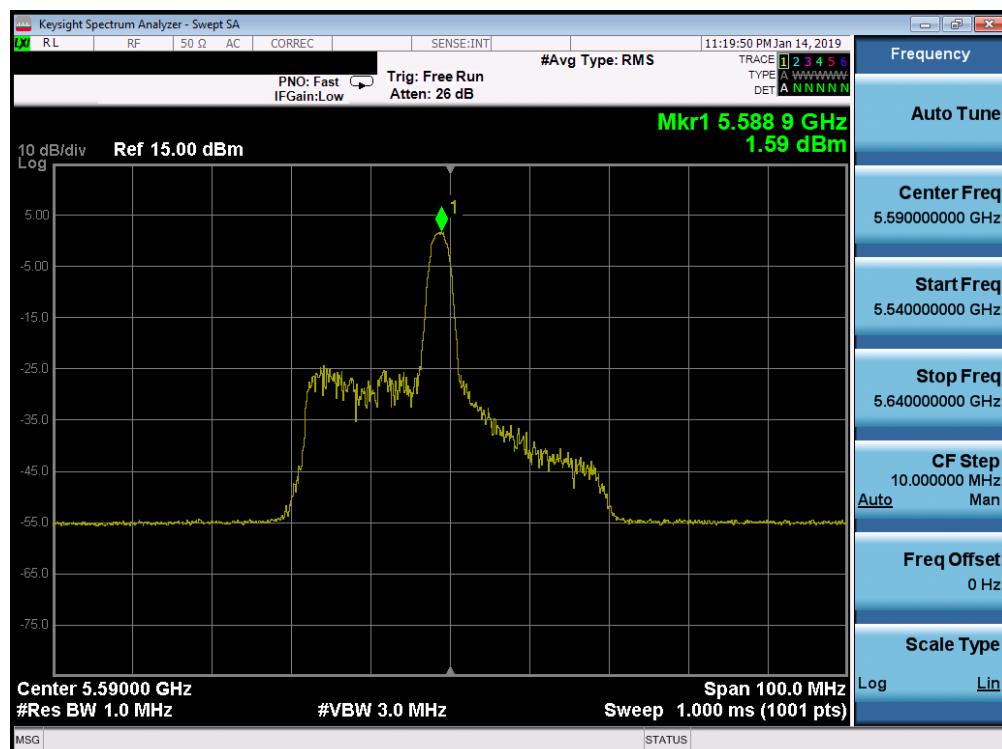




Plot 7-511. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

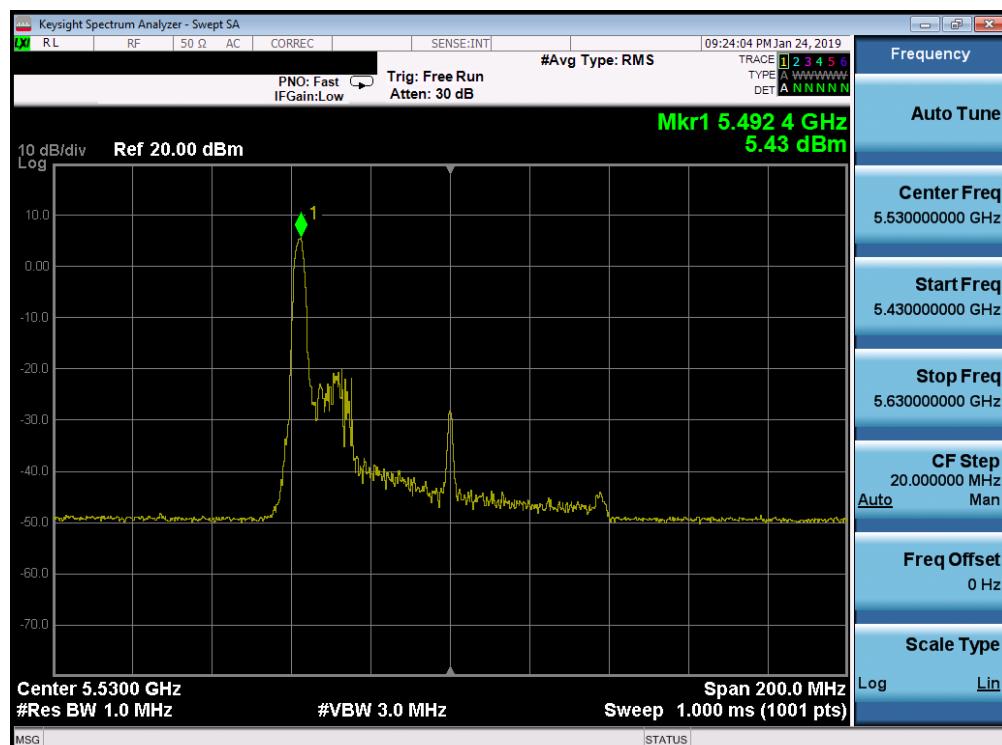


Plot 7-512. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 343 of 514

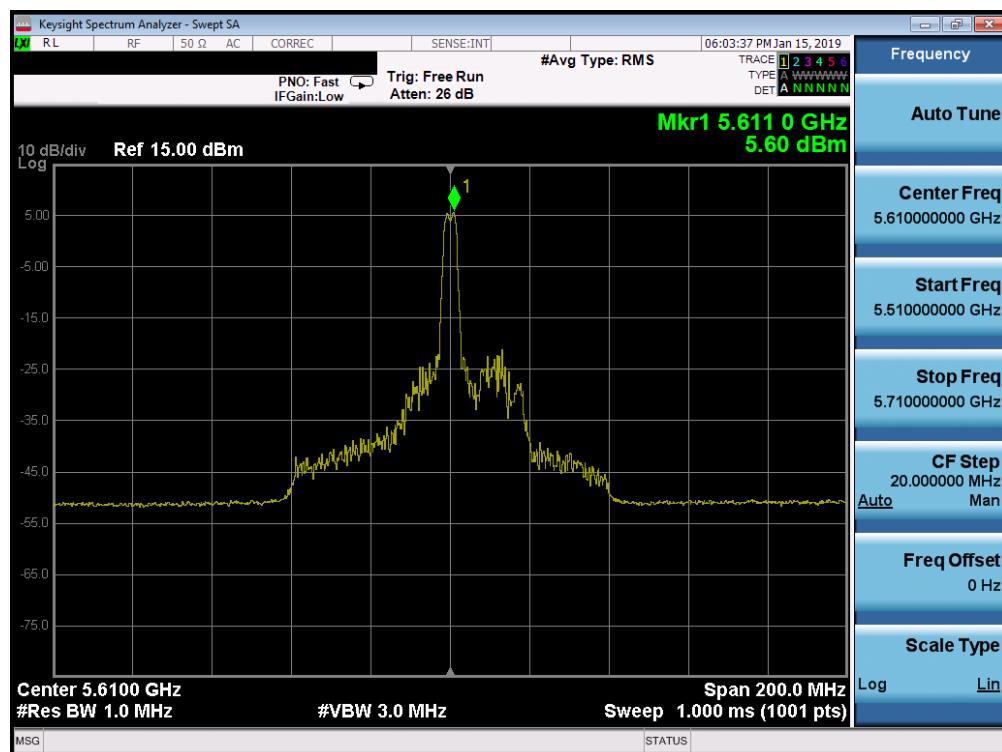


Plot 7-513. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

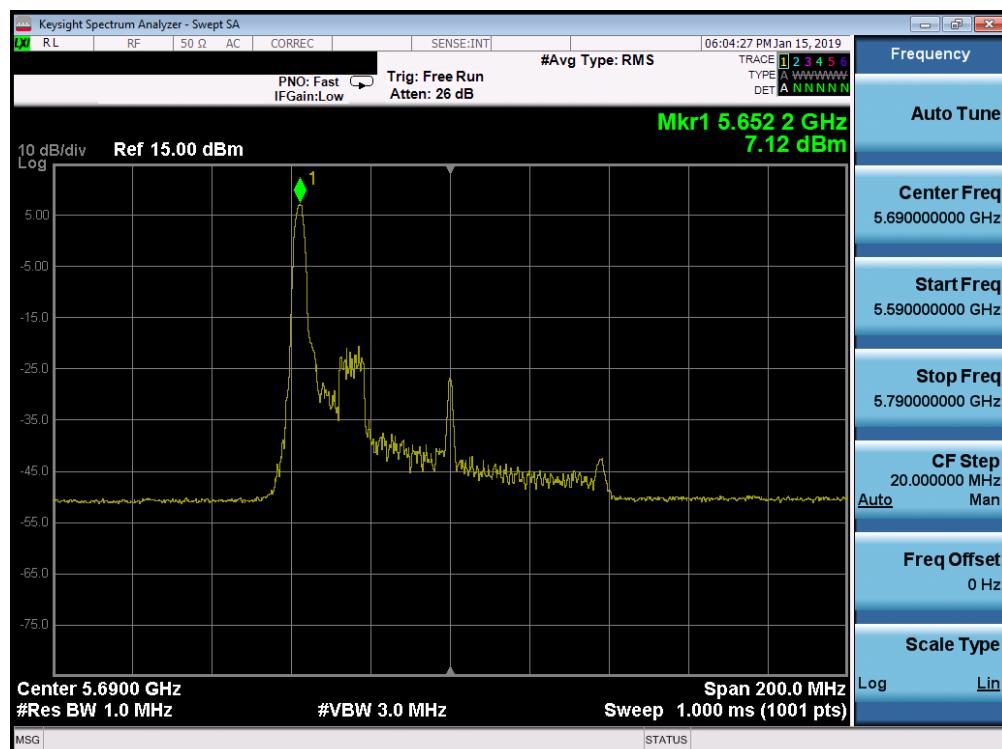


Plot 7-514. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			

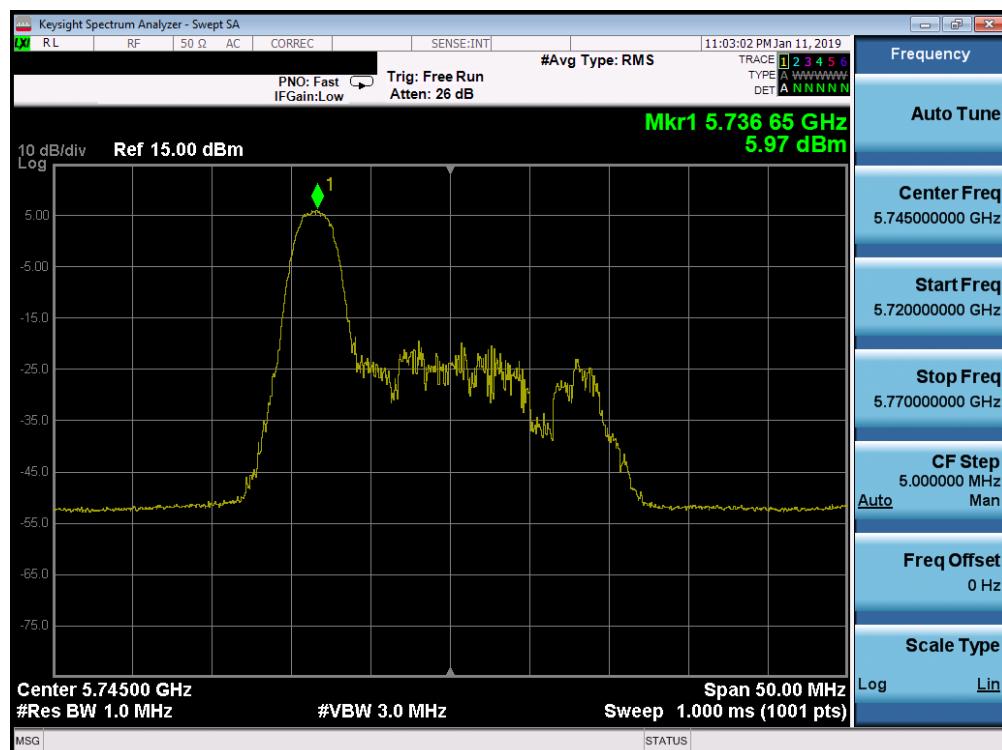


Plot 7-515. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

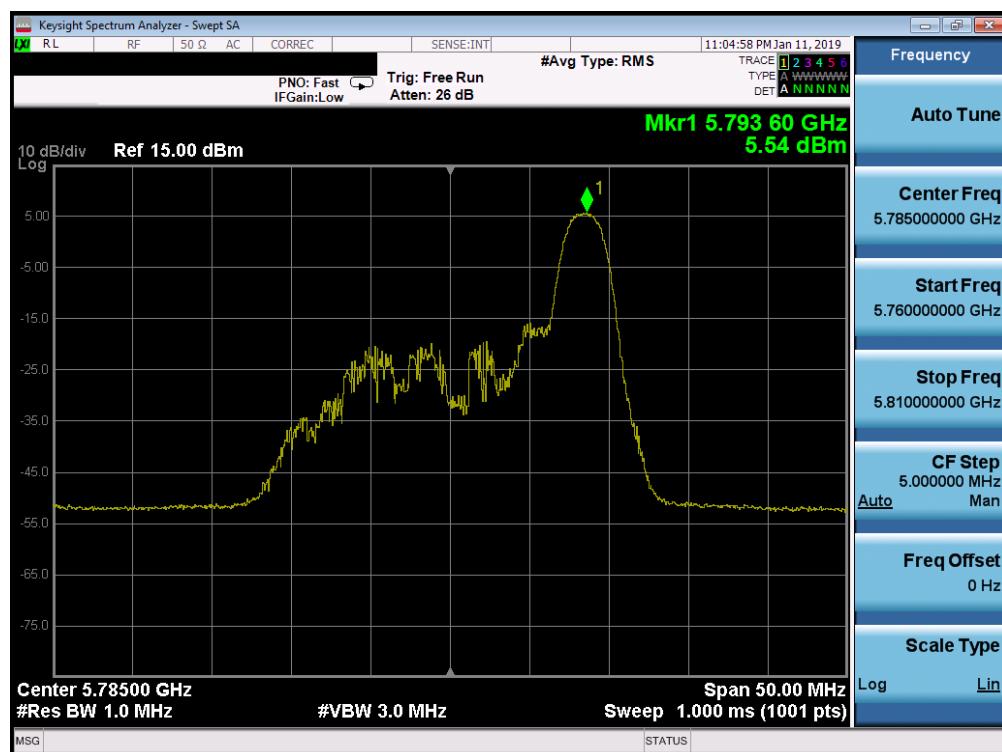


Plot 7-516. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 345 of 514

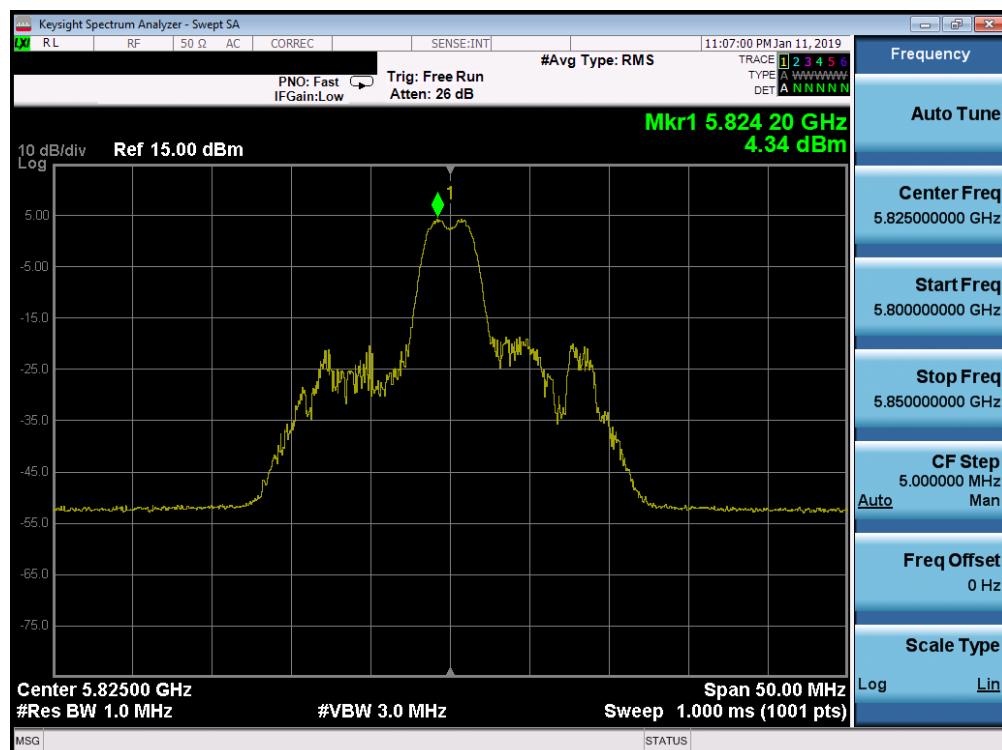


Plot 7-517. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

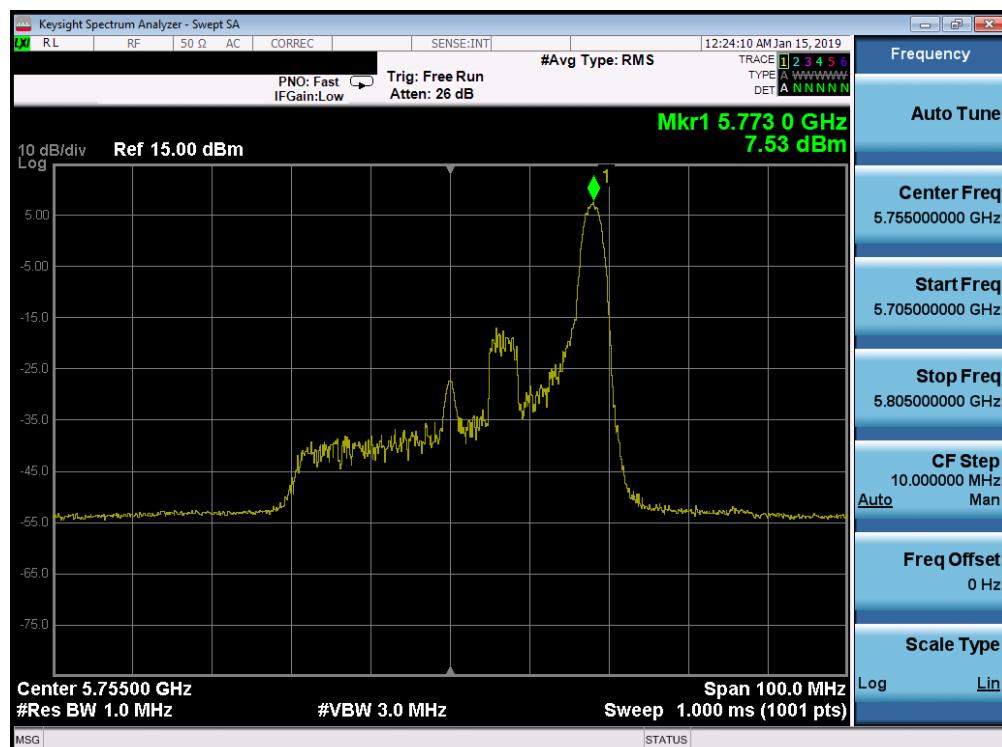


Plot 7-518. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 346 of 514

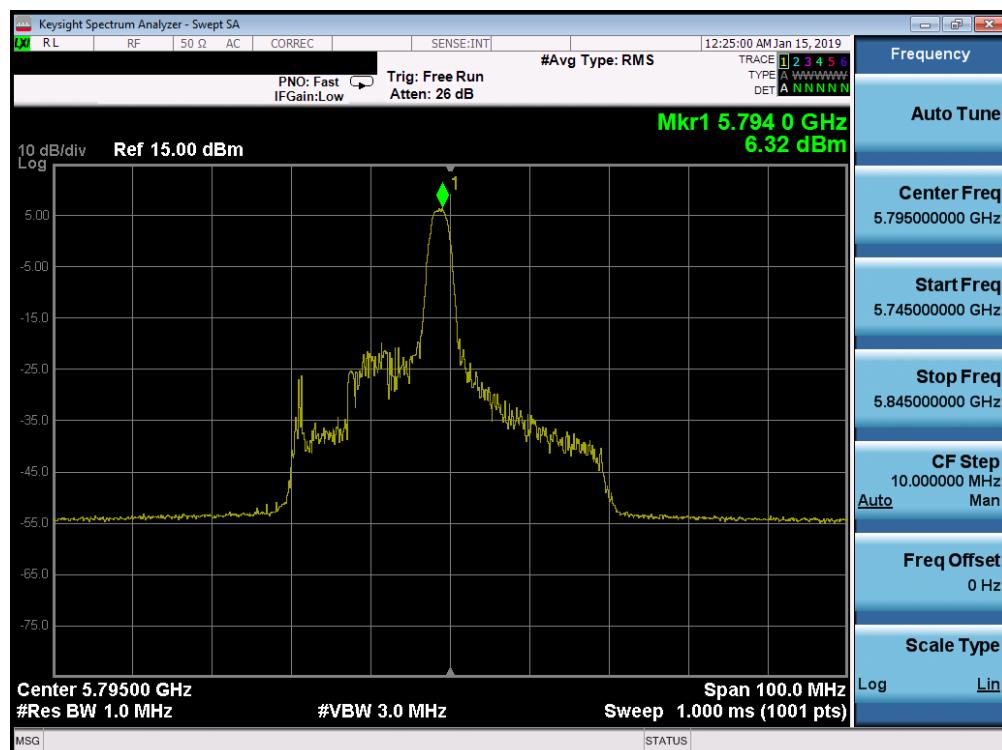


Plot 7-519. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

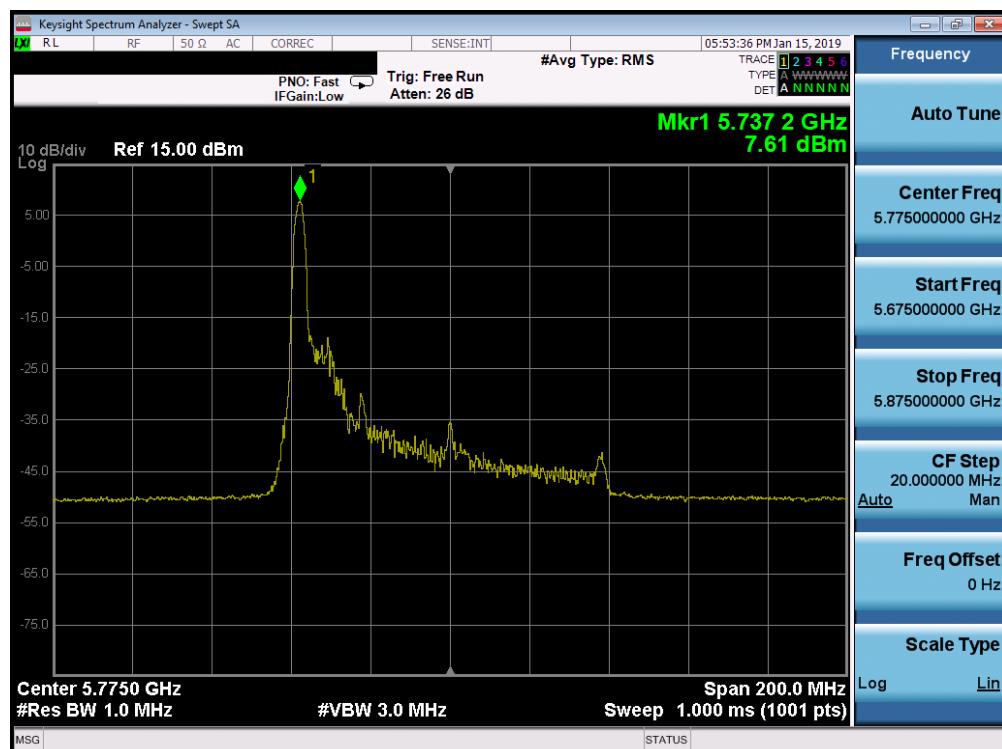


Plot 7-520. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 347 of 514



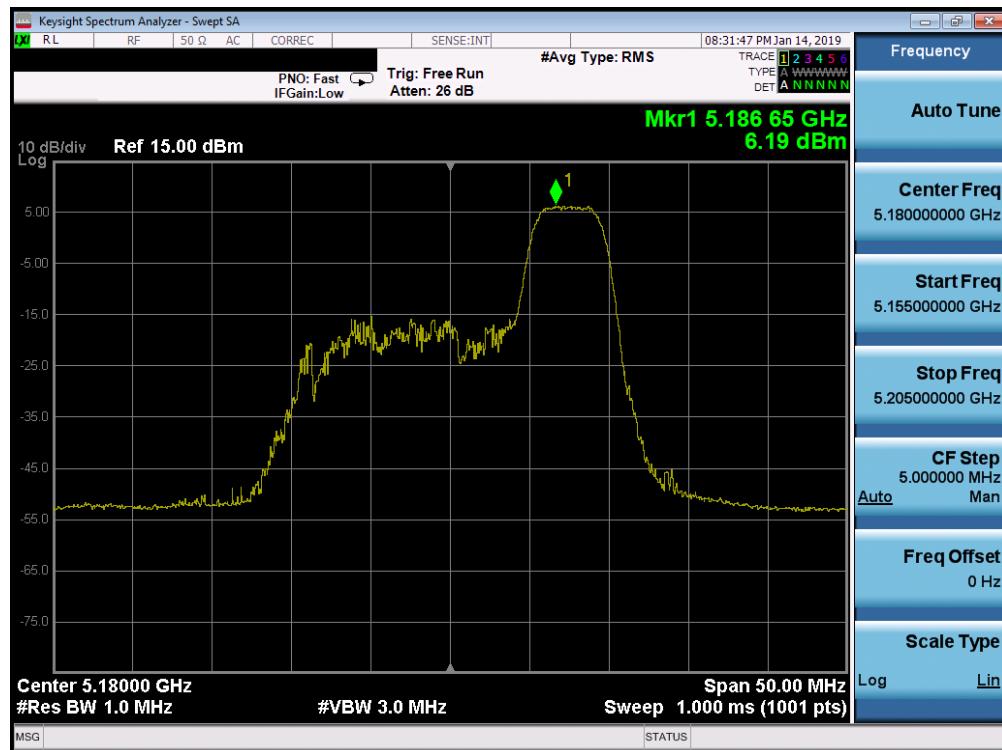
Plot 7-521. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-522. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

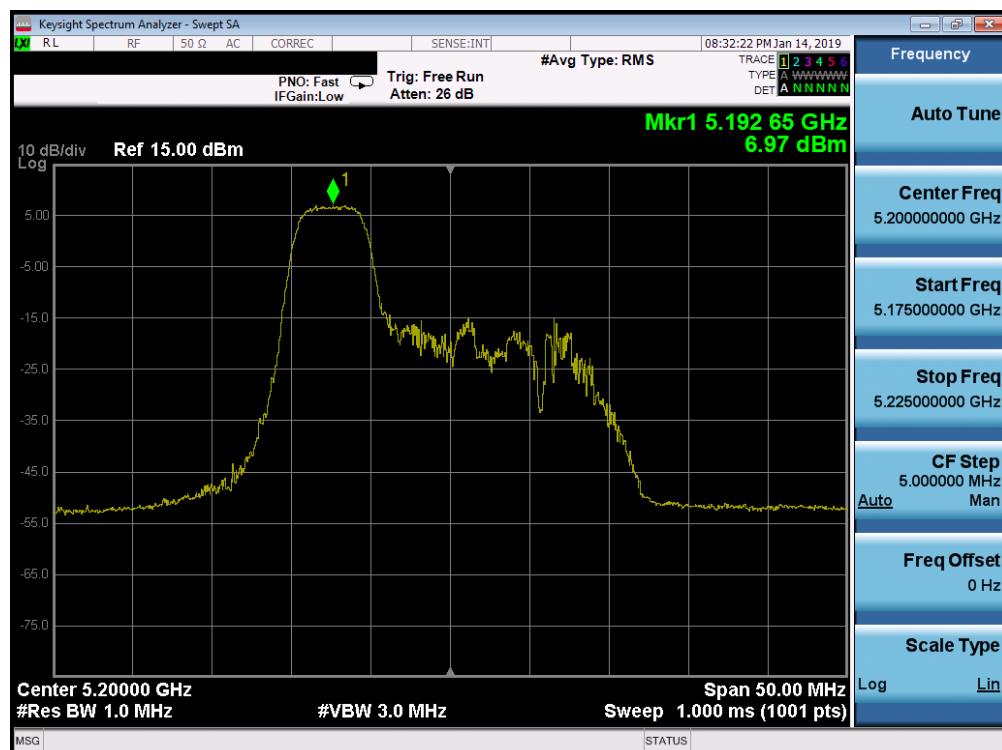
FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 348 of 514

MIMO Antenna-2 Power Spectral Density Measurements (52 Tones)

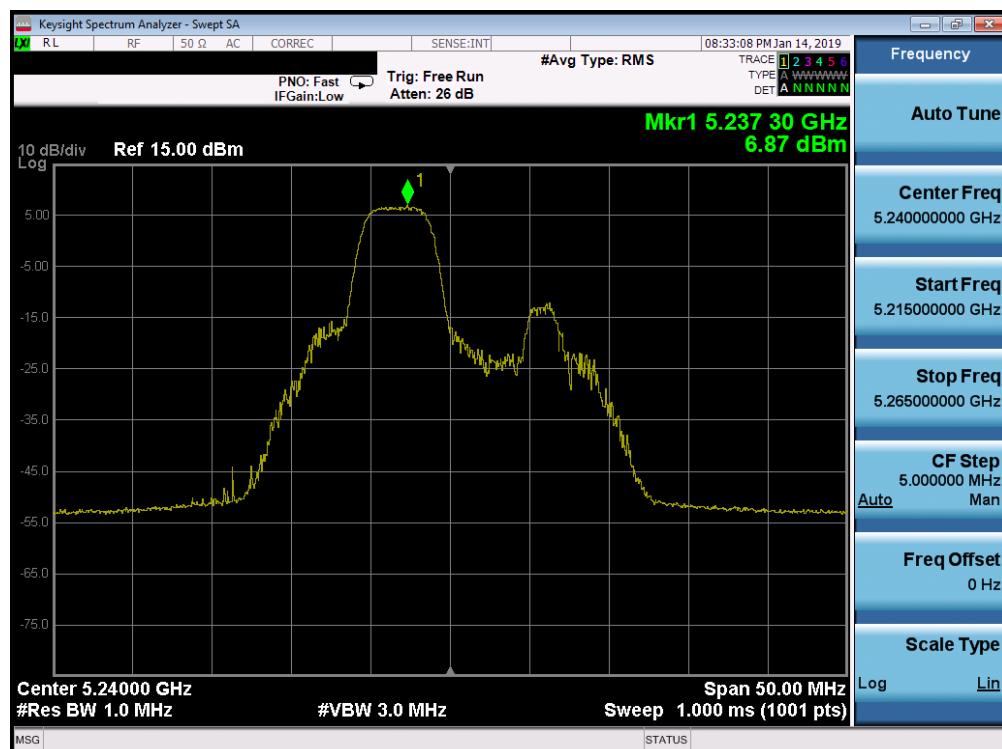


Plot 7-523. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 349 of 514

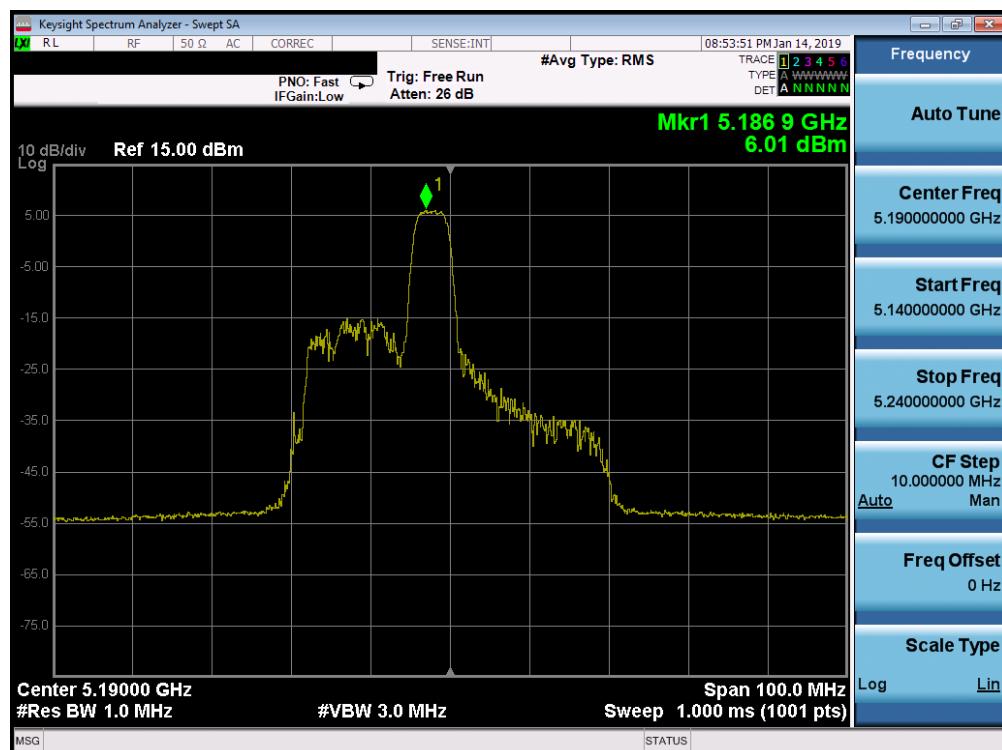


Plot 7-524. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)

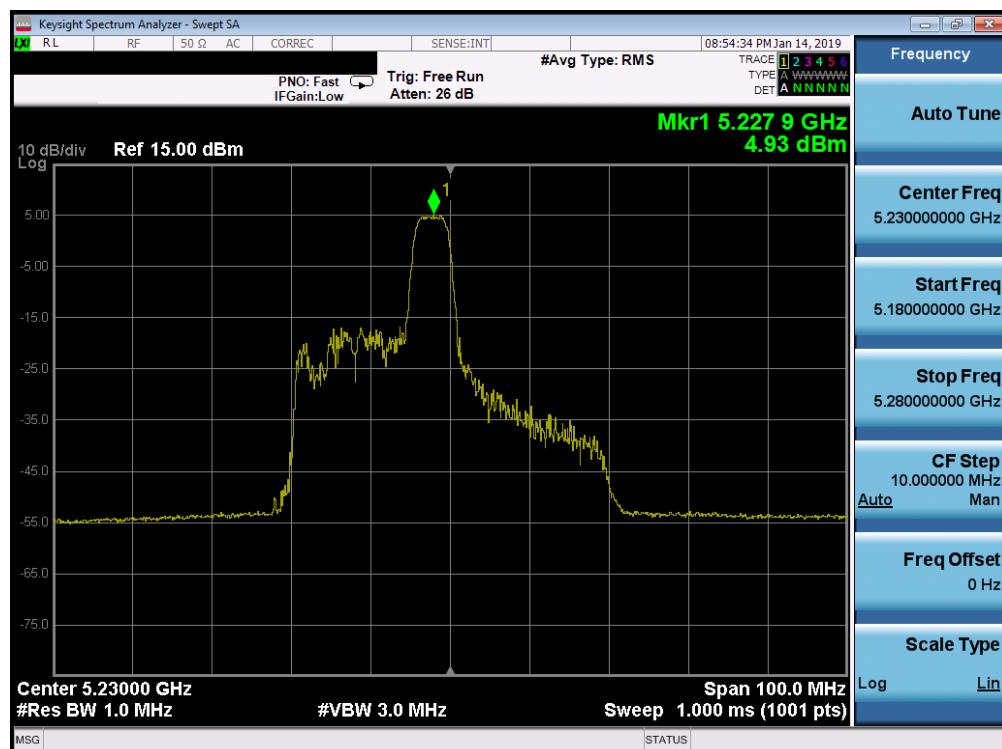


Plot 7-525. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 350 of 514

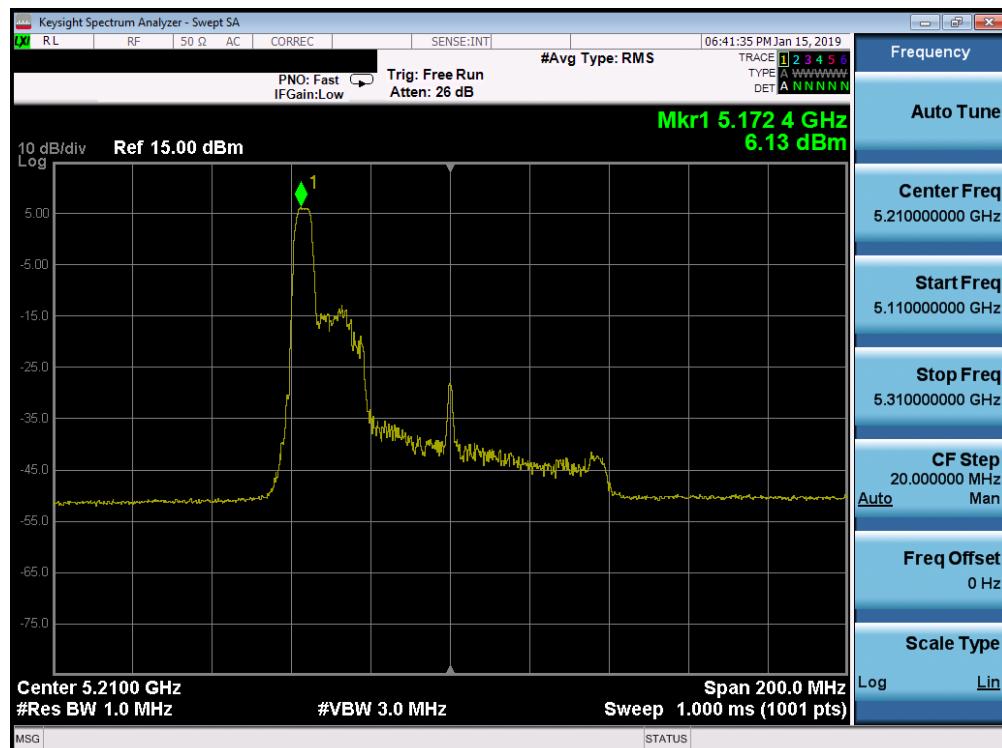


Plot 7-526. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

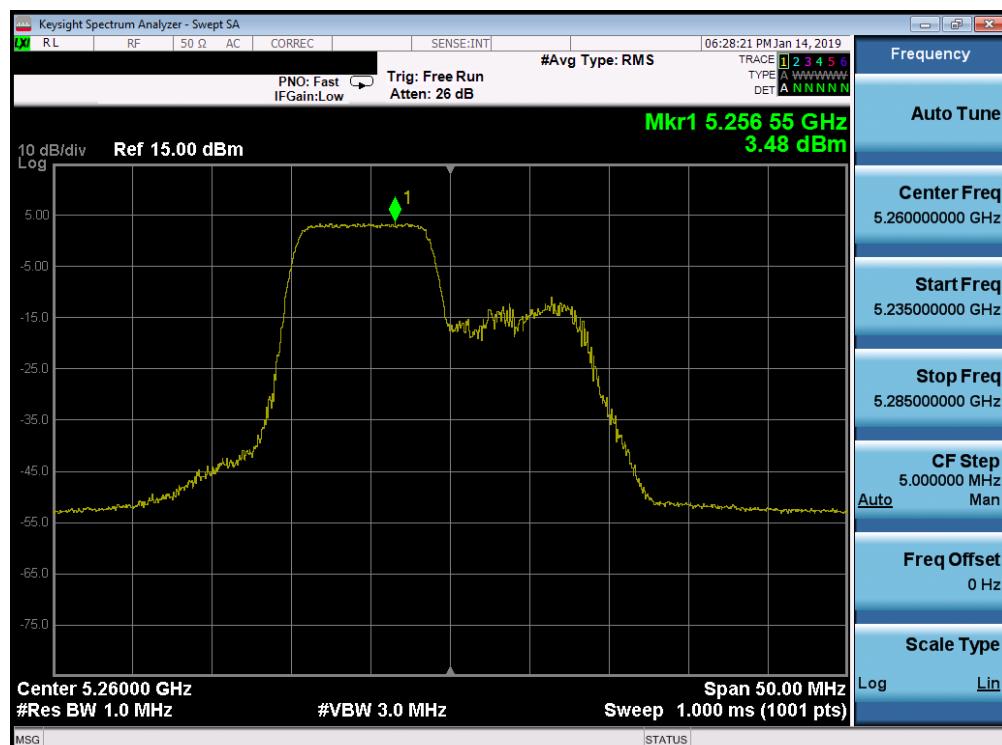


Plot 7-527. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 351 of 514

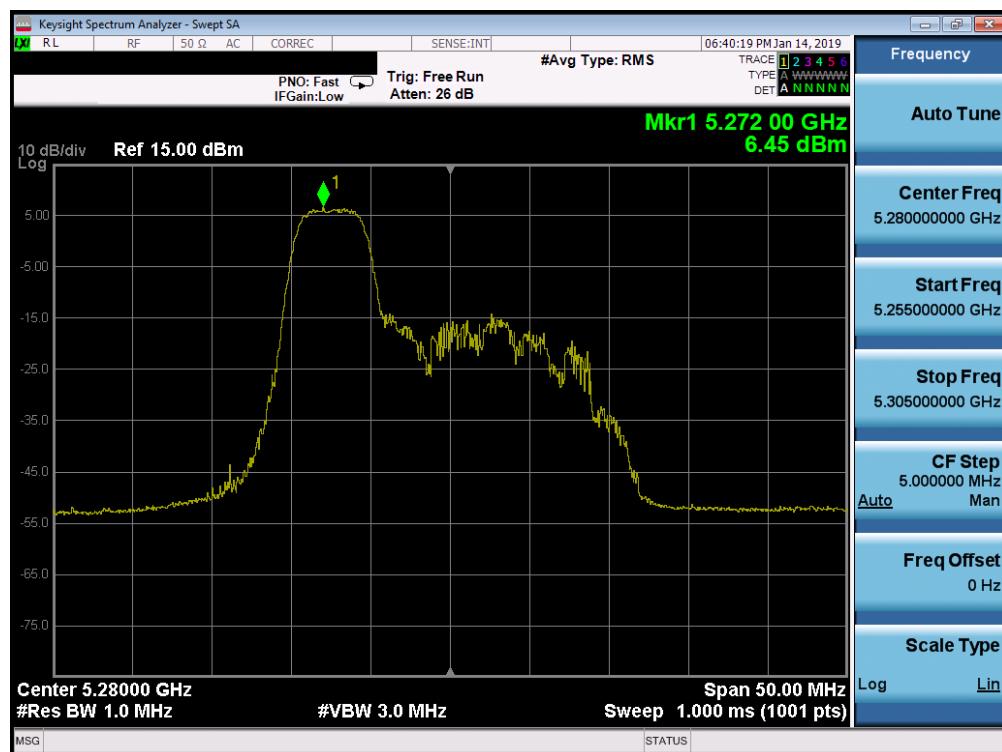


Plot 7-528. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)

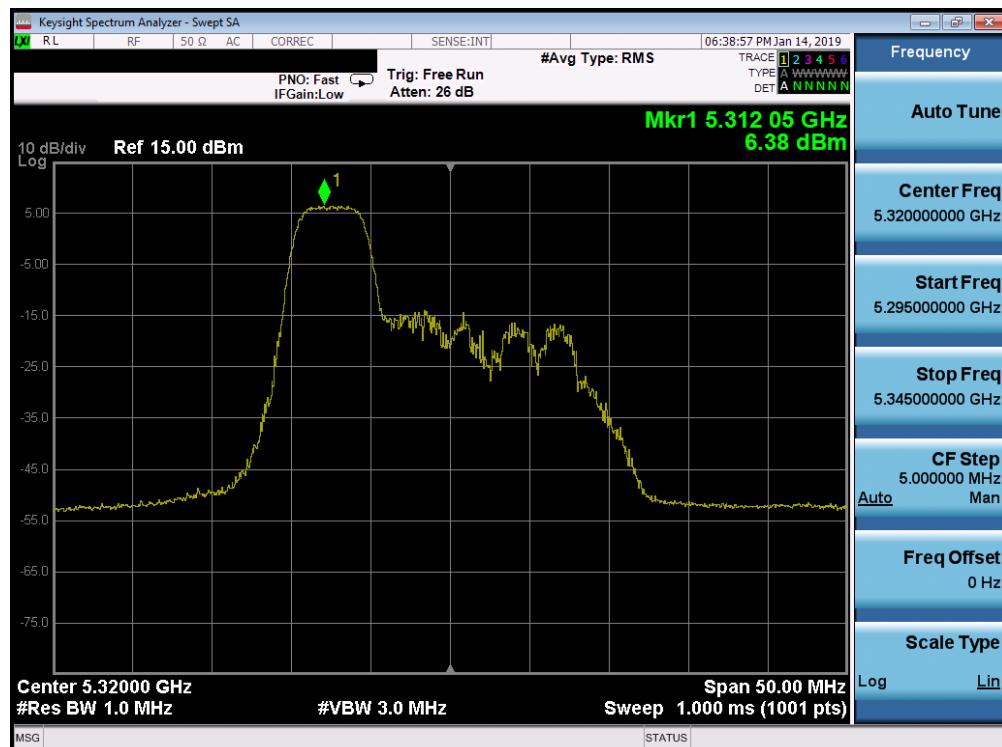


Plot 7-529. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 352 of 514

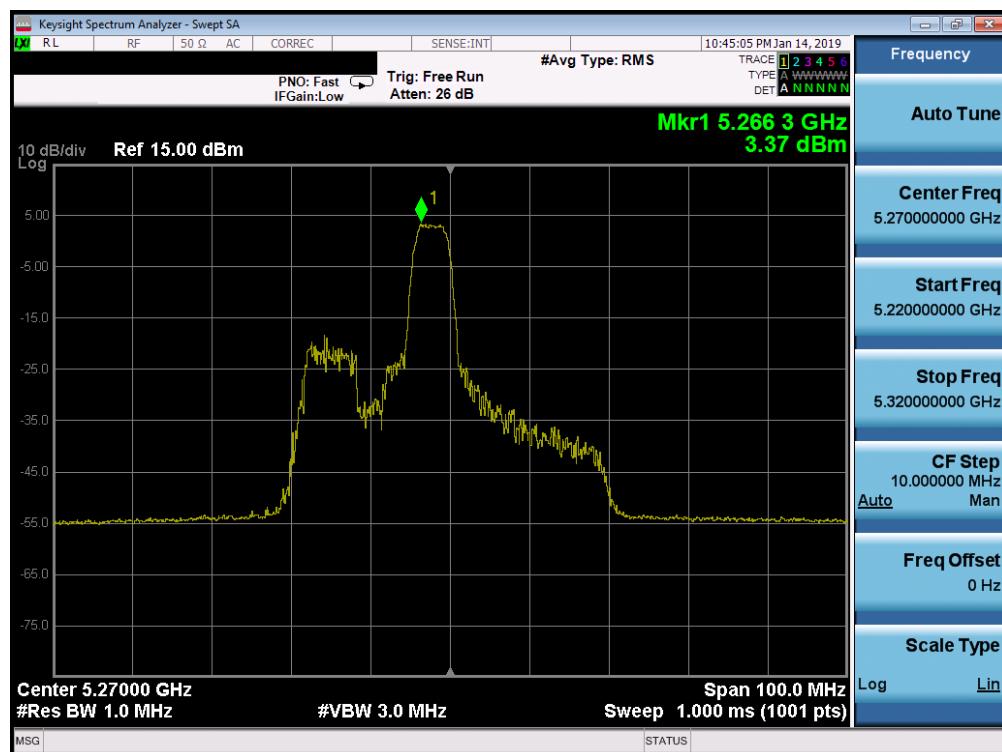


Plot 7-530. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)

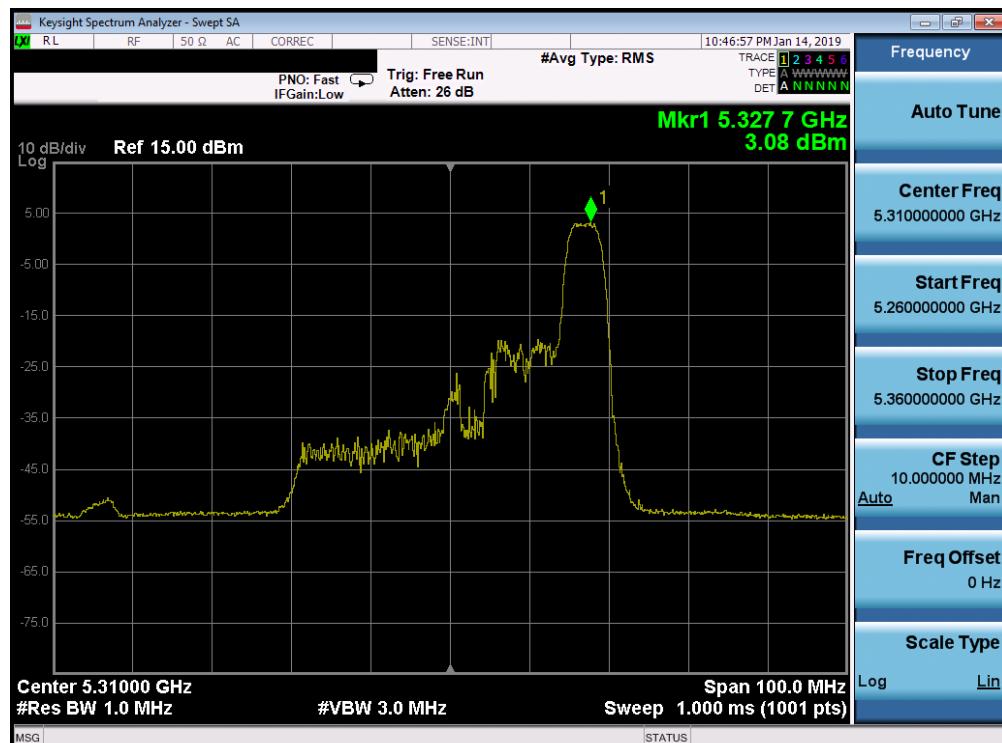


Plot 7-531. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 353 of 514

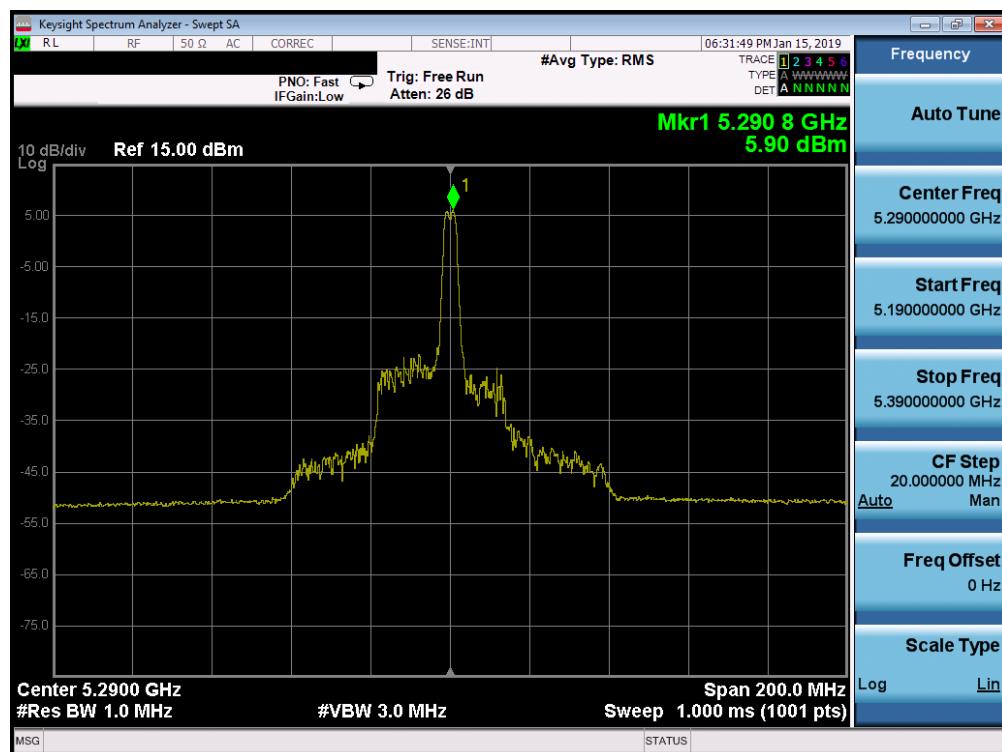


Plot 7-532. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

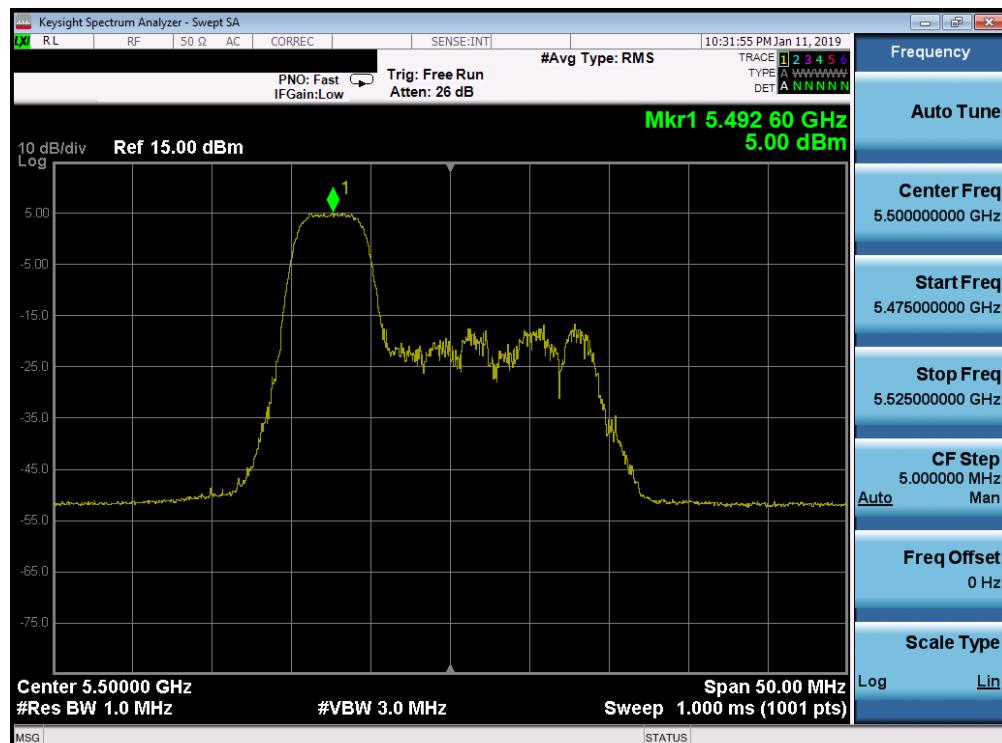


Plot 7-533. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 354 of 514

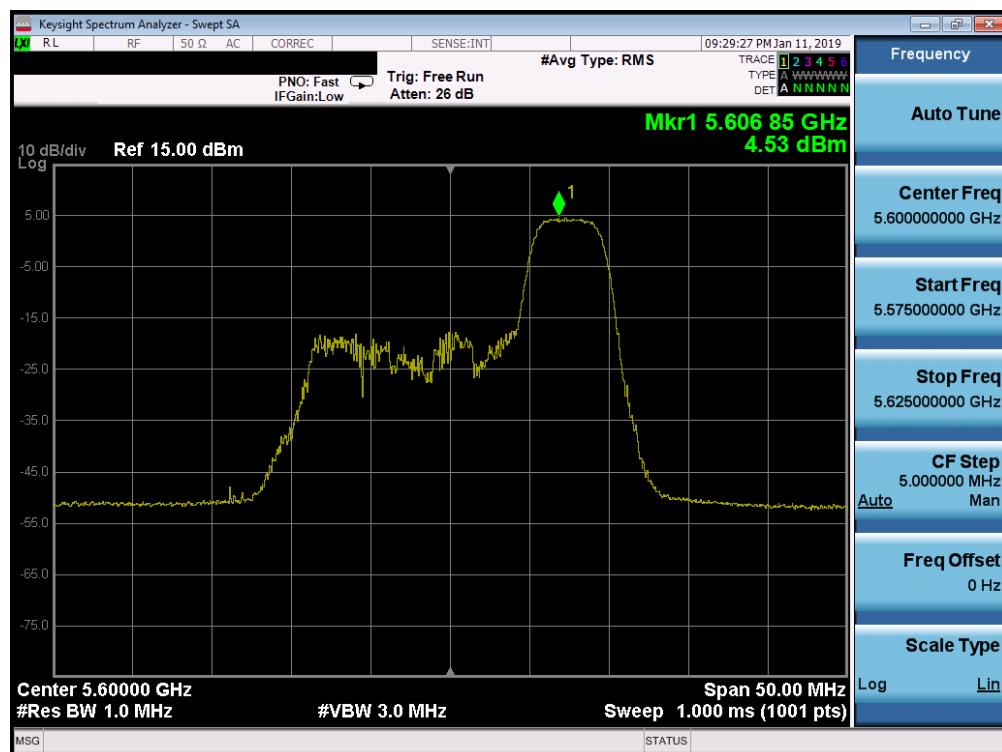


Plot 7-534. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

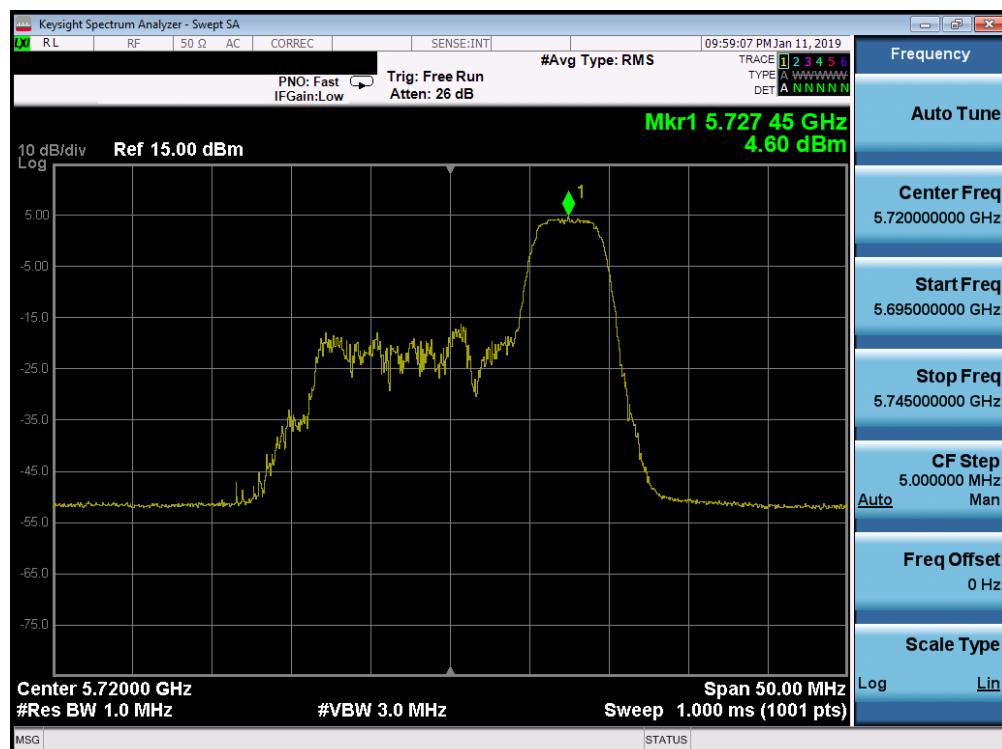


Plot 7-535. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			Page 355 of 514

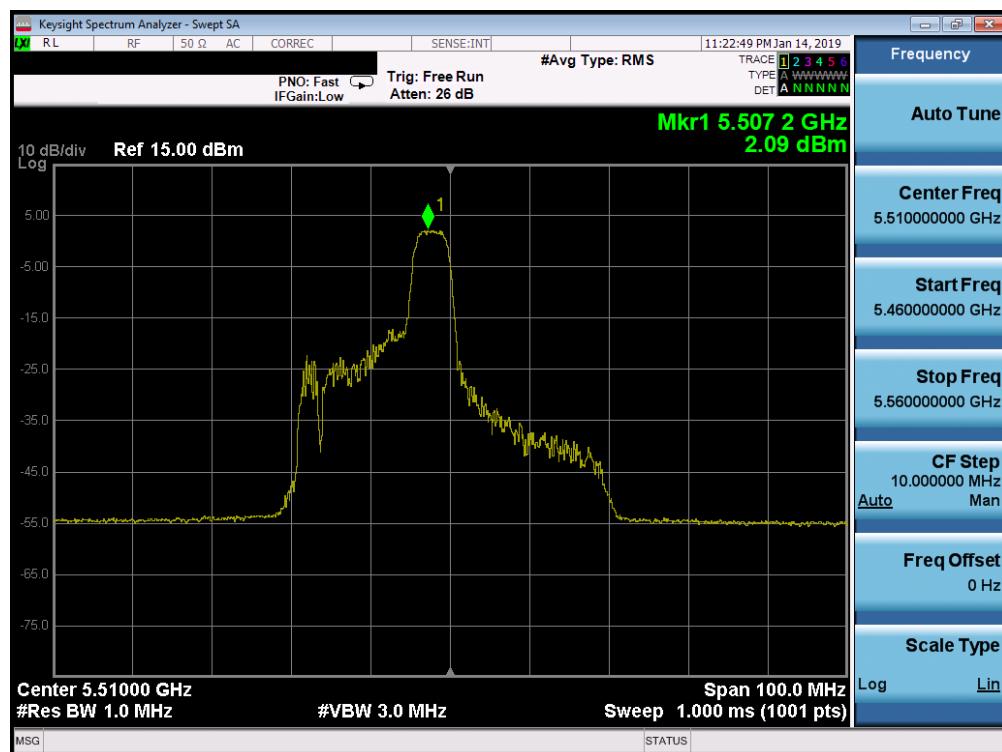


Plot 7-536. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

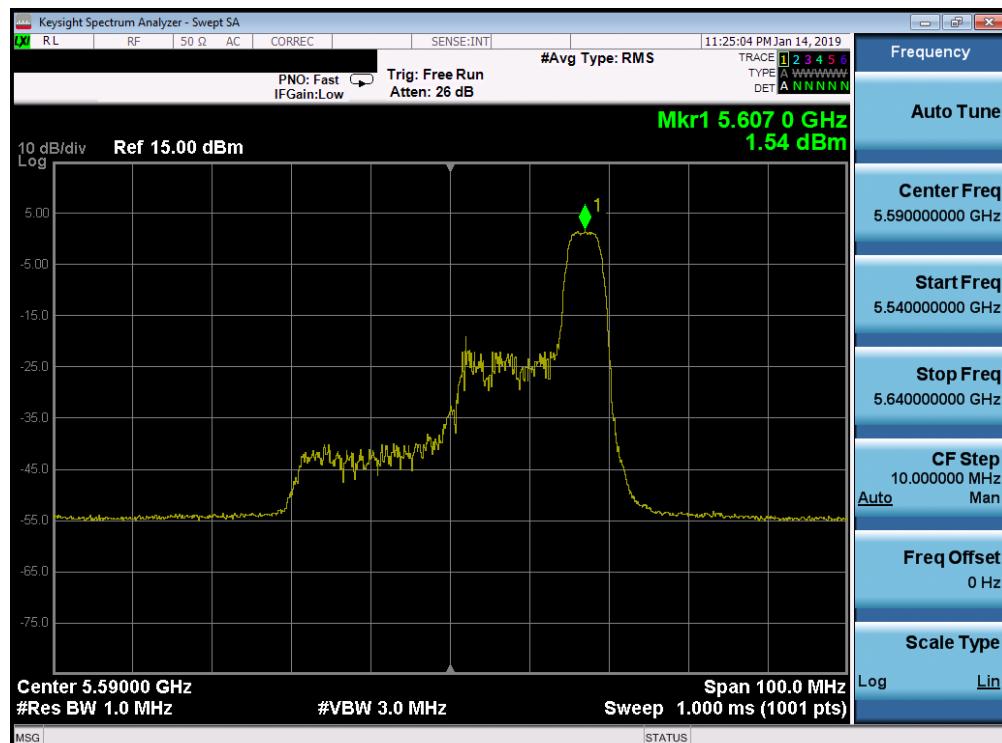


Plot 7-537. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 356 of 514

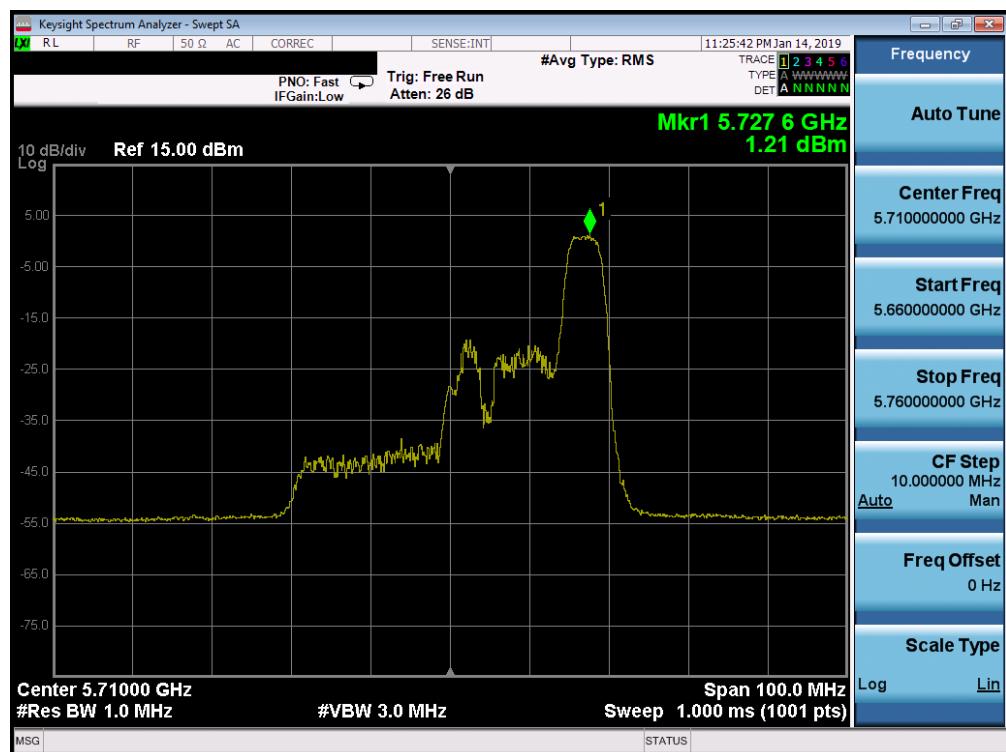


Plot 7-538. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

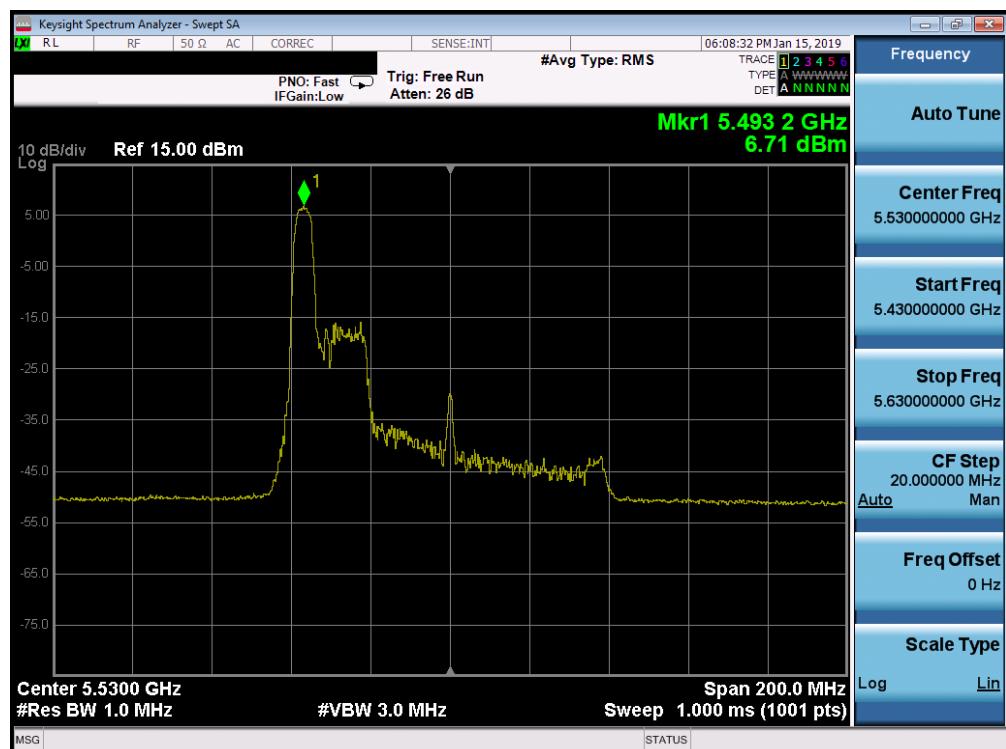


Plot 7-539. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 357 of 514

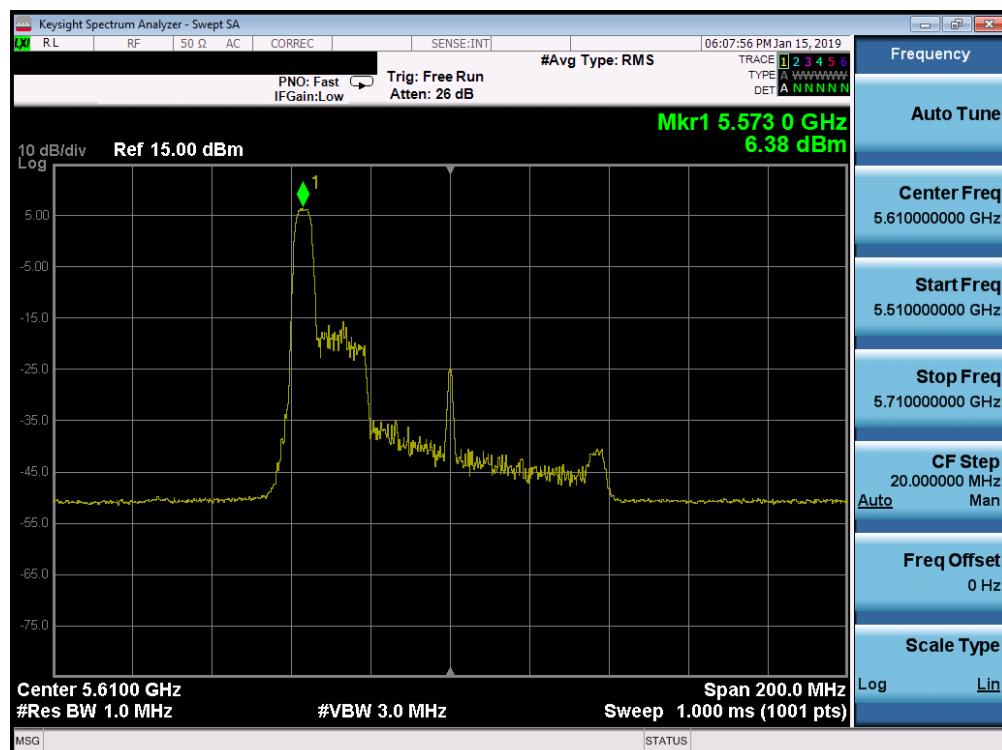


Plot 7-540. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)

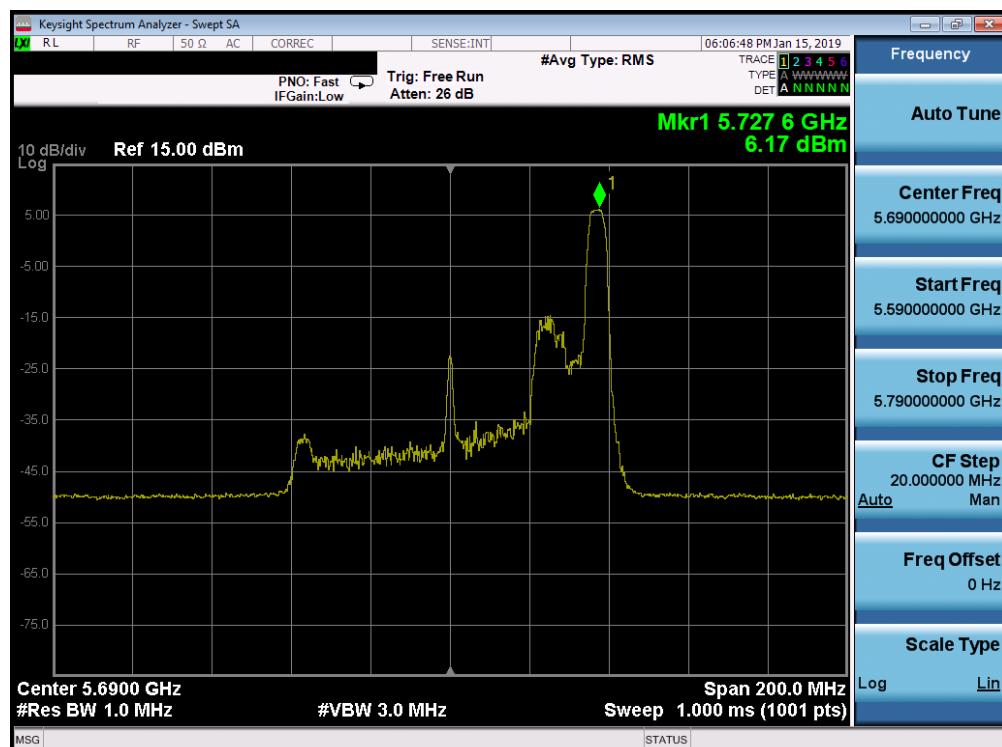


Plot 7-541. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 358 of 514

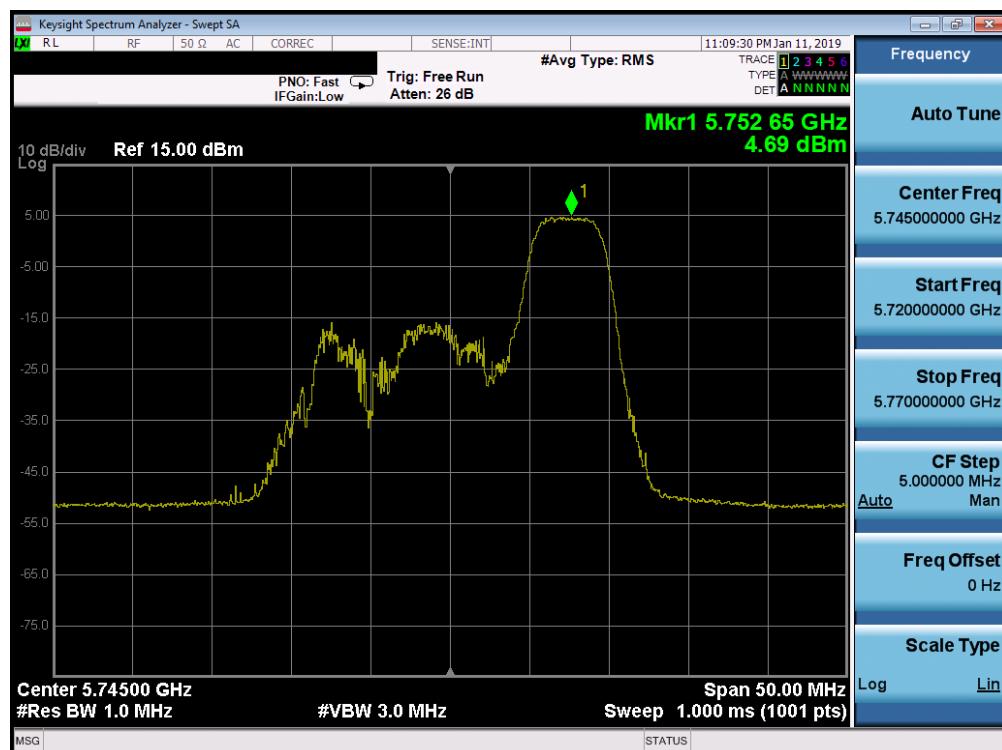


Plot 7-542. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 122)

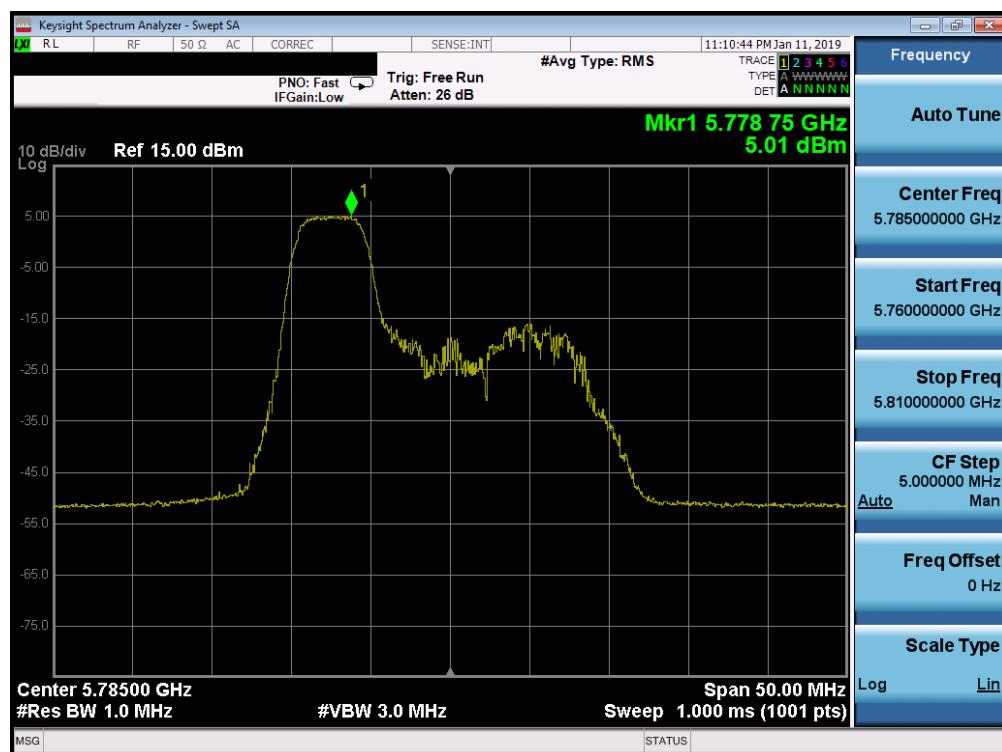


Plot 7-543. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-7.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 359 of 514

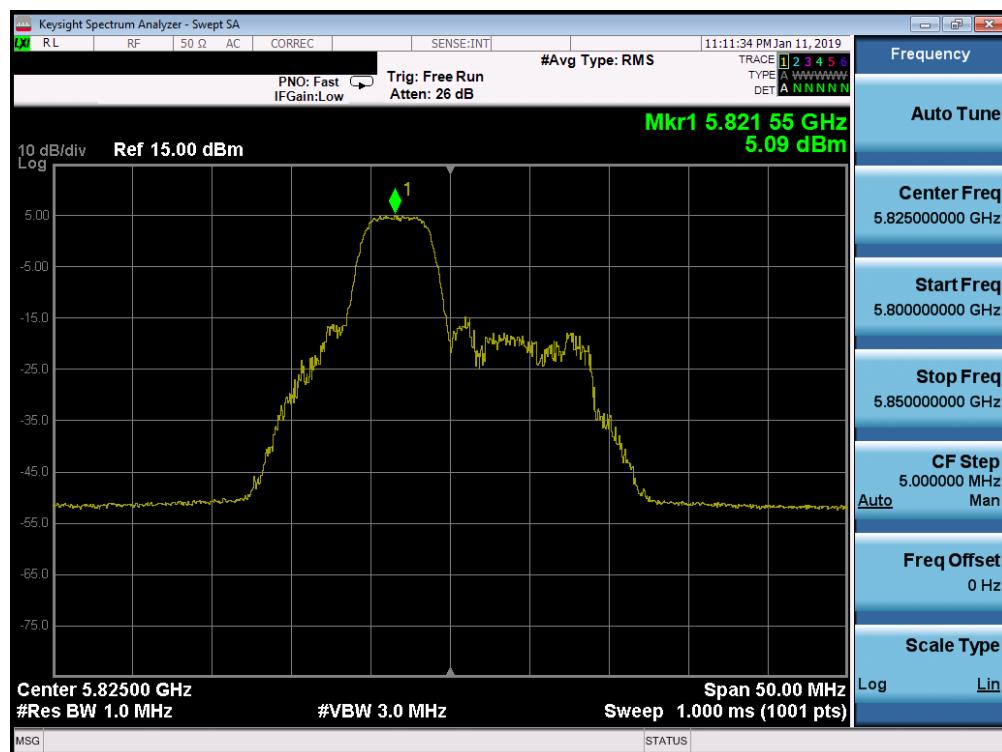


Plot 7-544. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

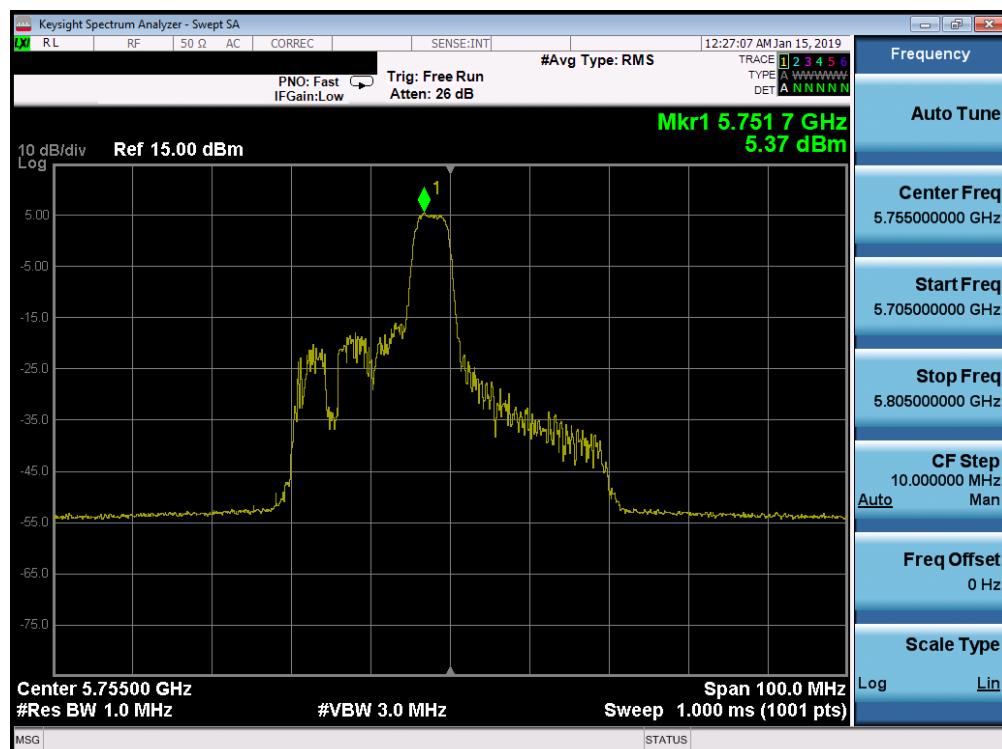


Plot 7-545. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 360 of 514

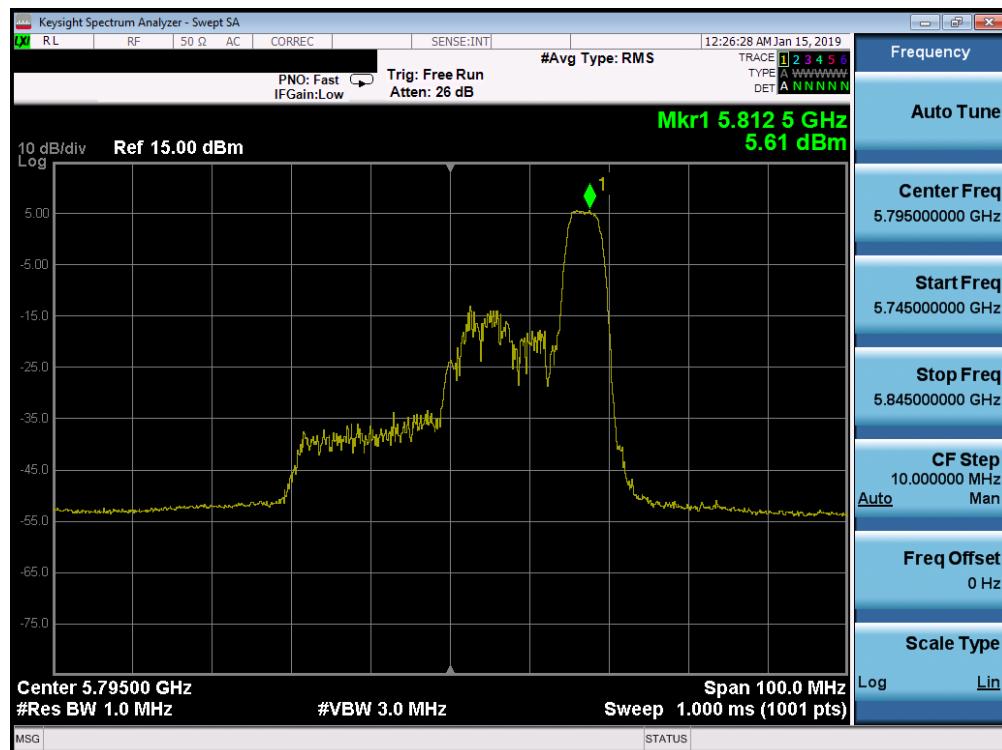


Plot 7-546. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

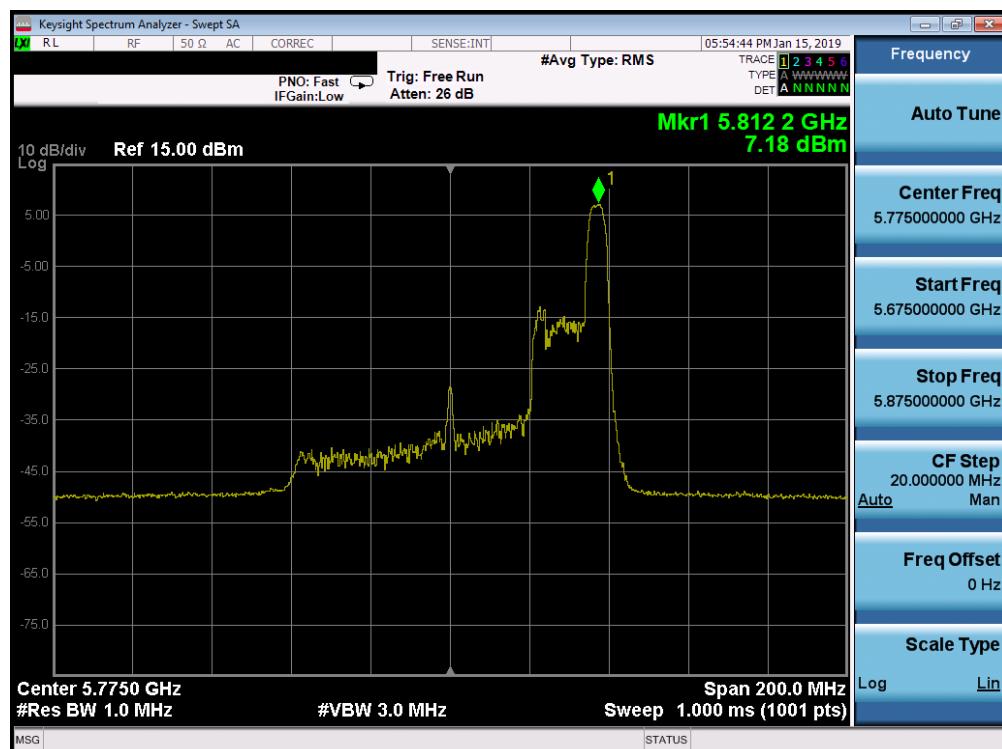


Plot 7-547. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 361 of 514



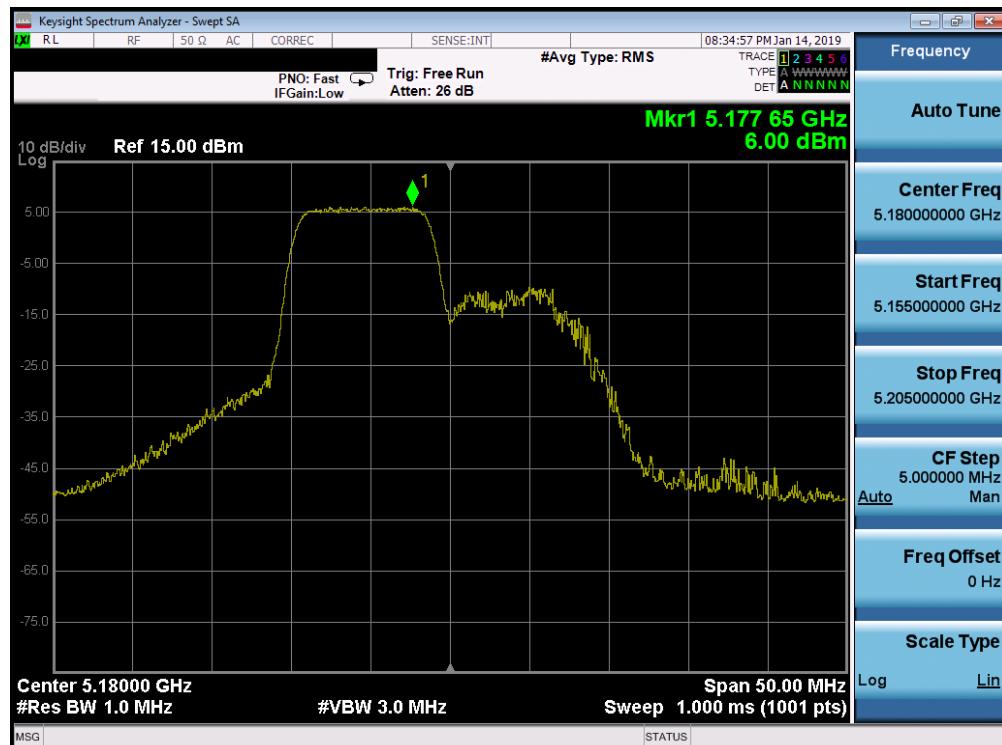
Plot 7-548. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)



Plot 7-549. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

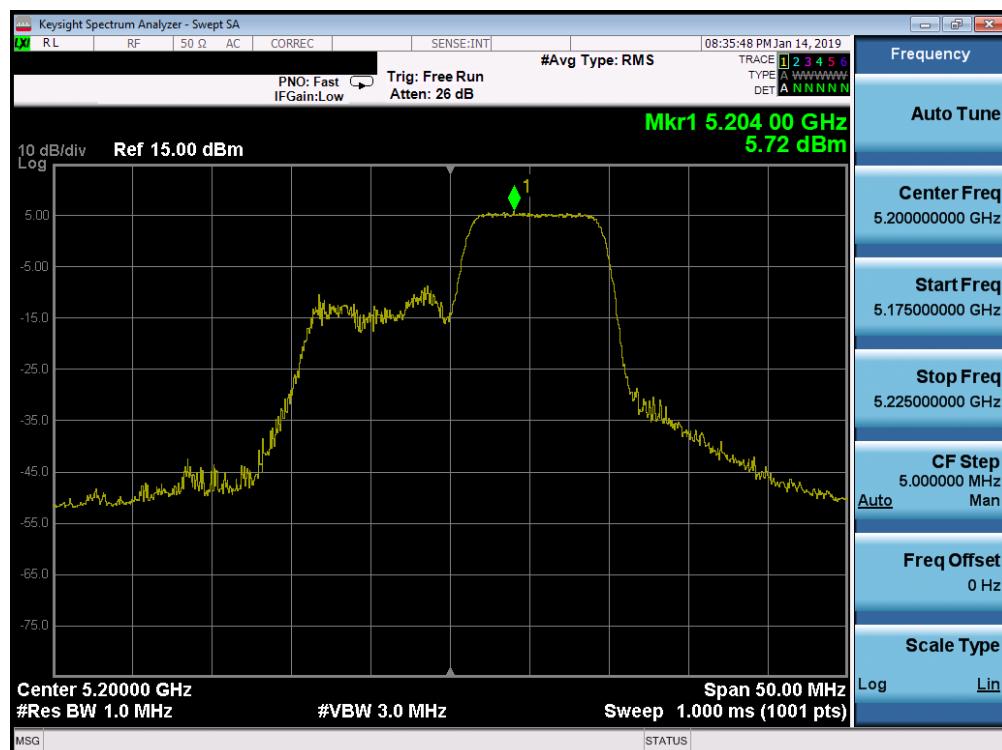
FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 362 of 514

MIMO Antenna-2 Power Spectral Density Measurements (106 Tones)

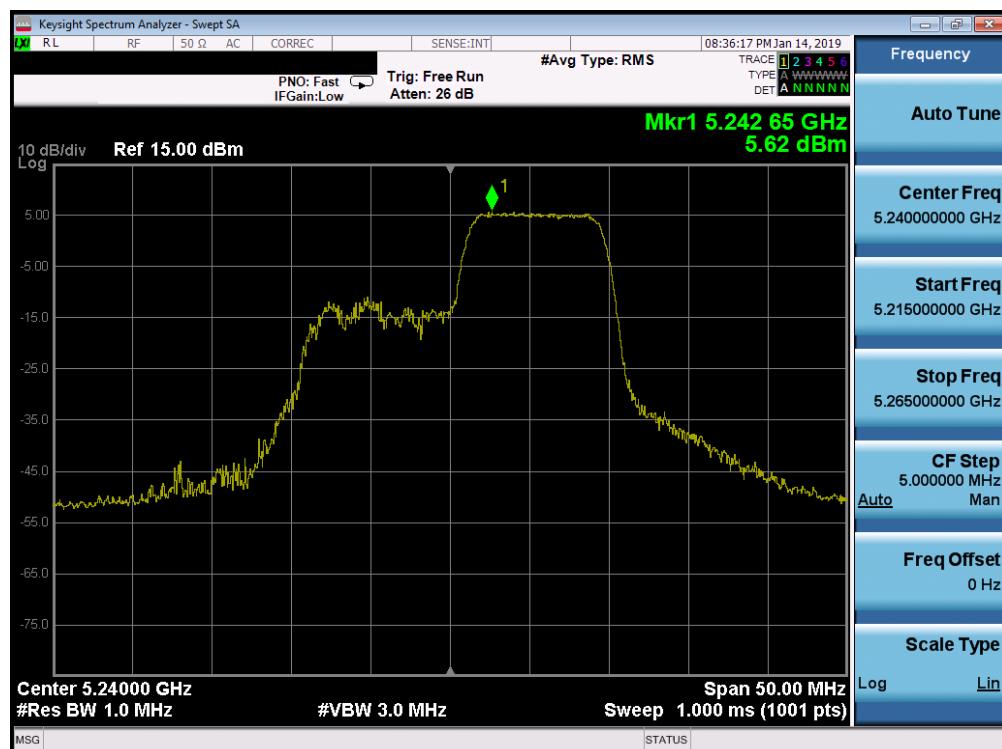


Plot 7-550. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 363 of 514

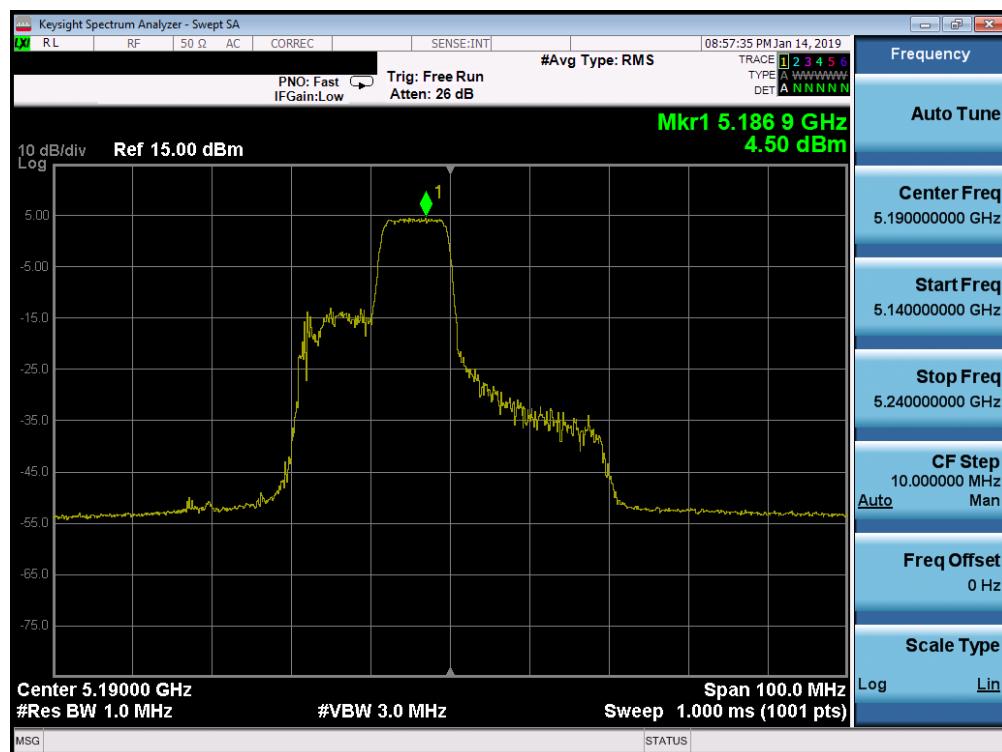


Plot 7-551. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 40)

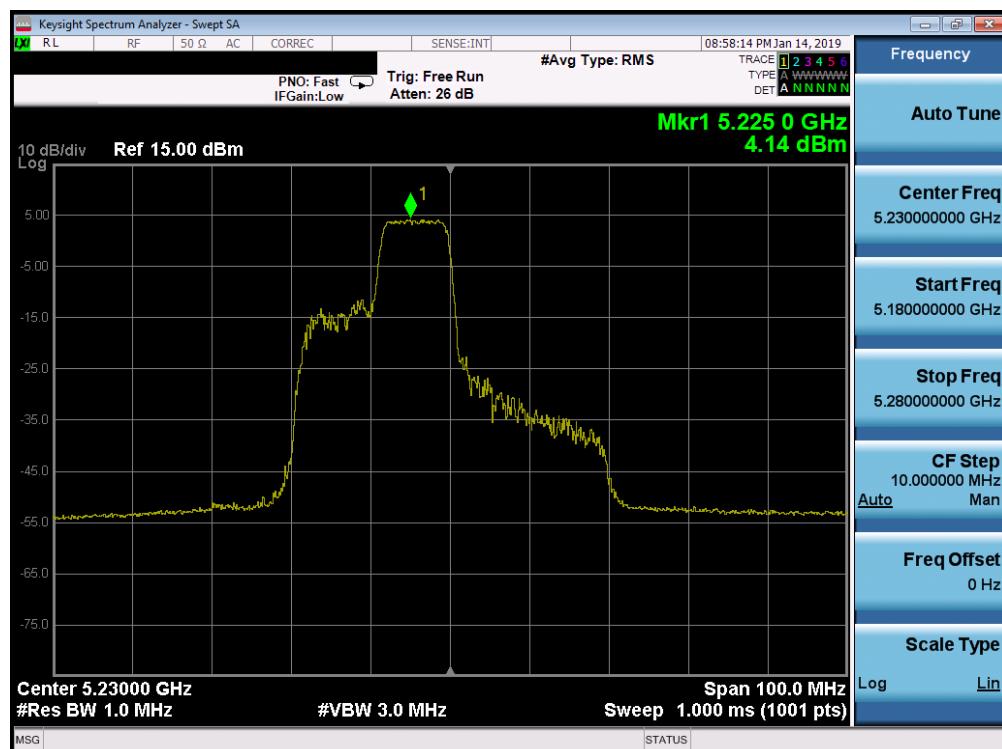


Plot 7-552. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 364 of 514

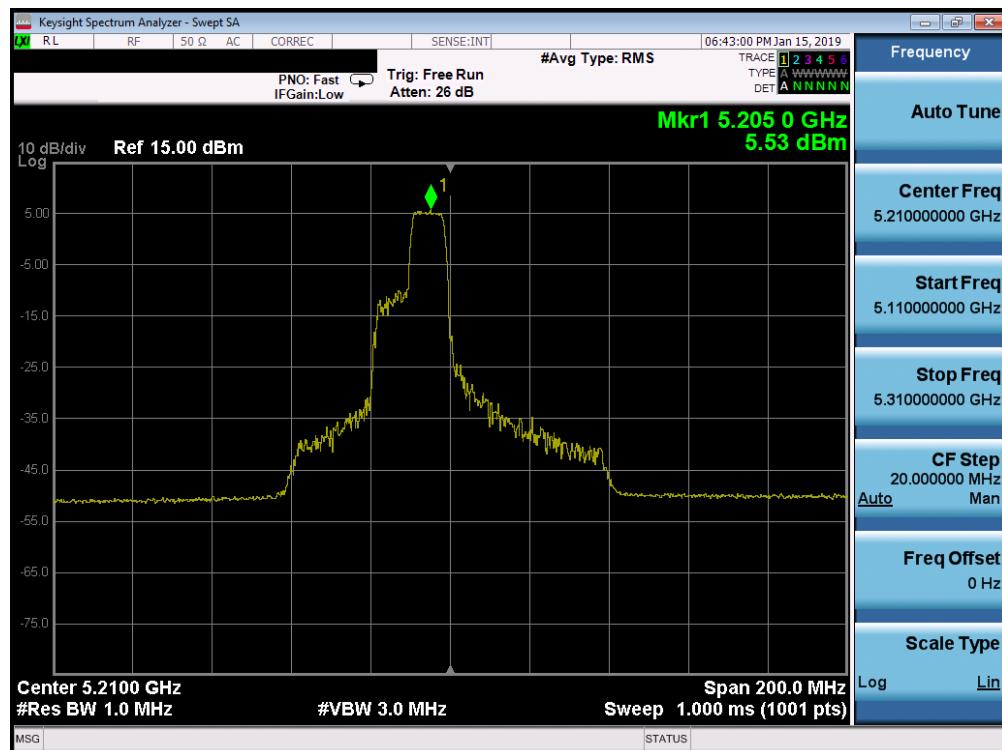


Plot 7-553. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 38)

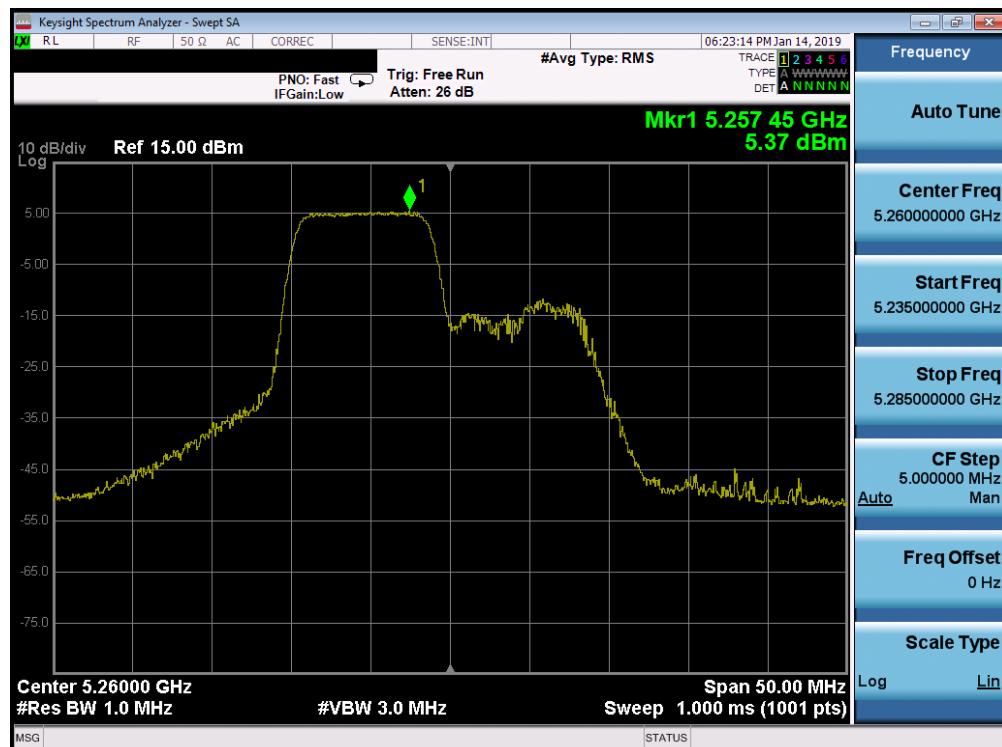


Plot 7-554. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 365 of 514

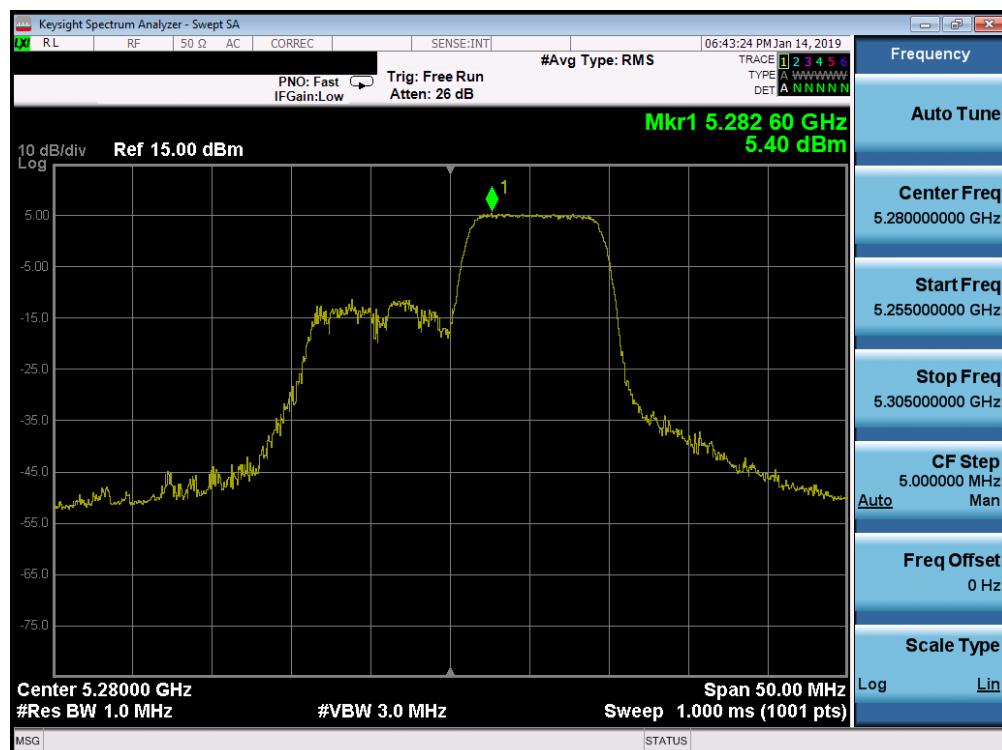


Plot 7-555. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 42)

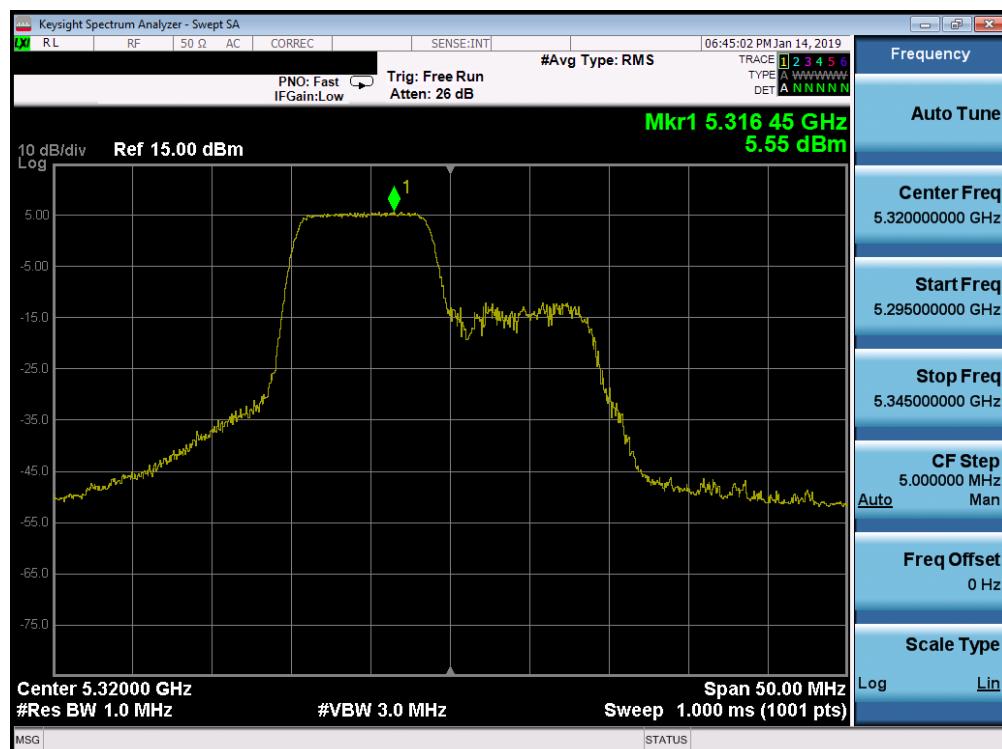


Plot 7-556. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 52)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 366 of 514

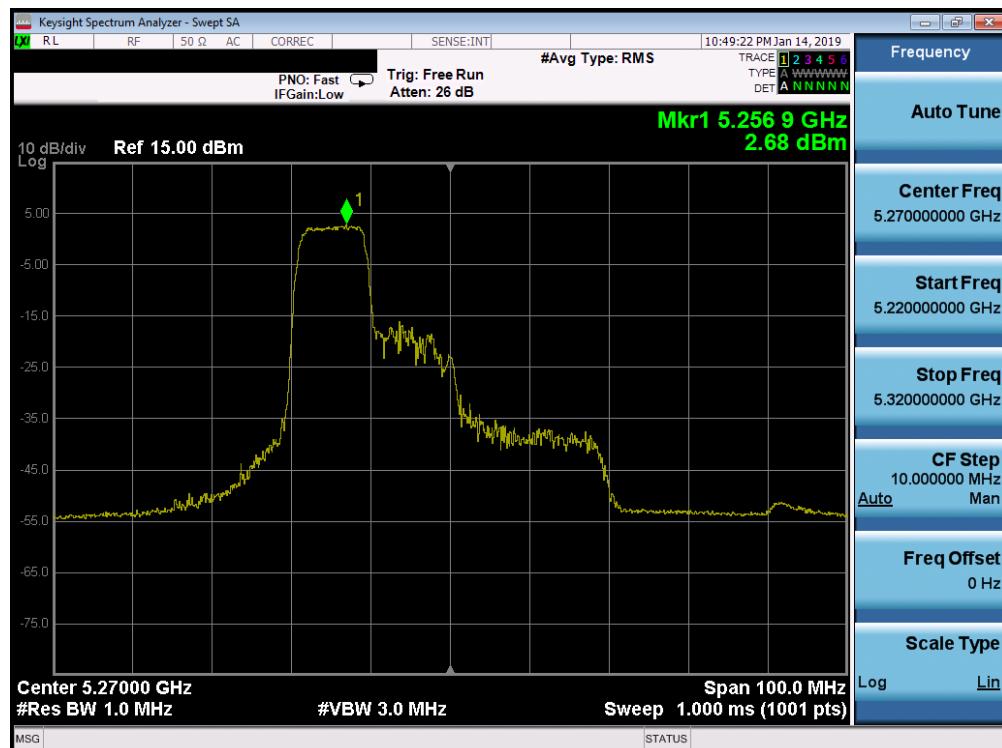


Plot 7-557. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 56)

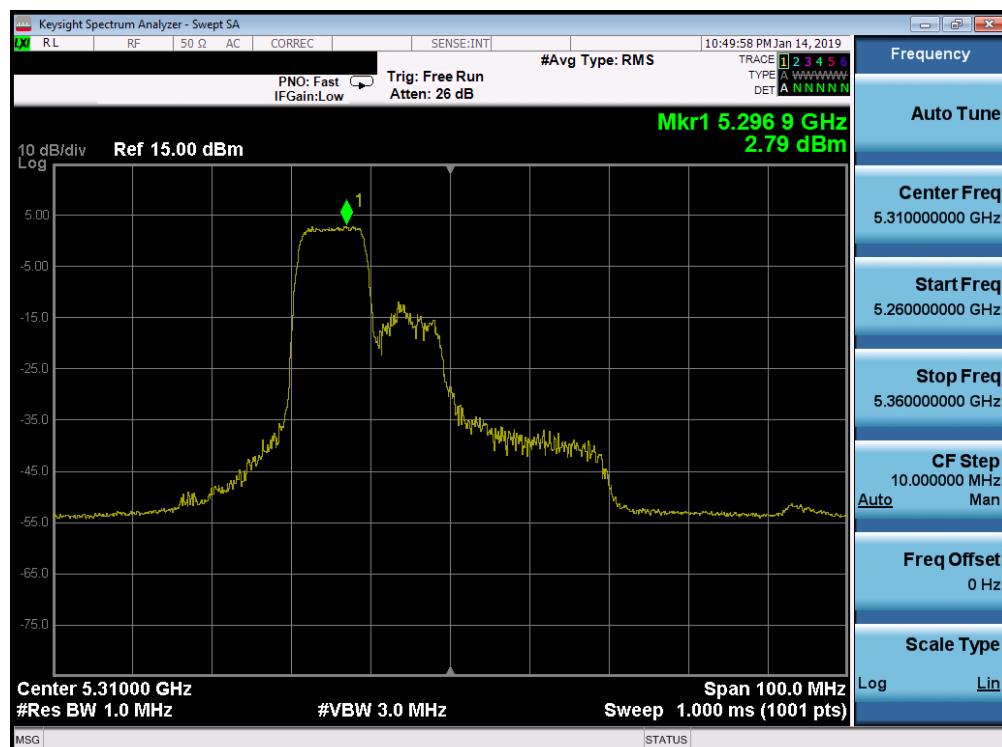


Plot 7-558. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 64)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 367 of 514

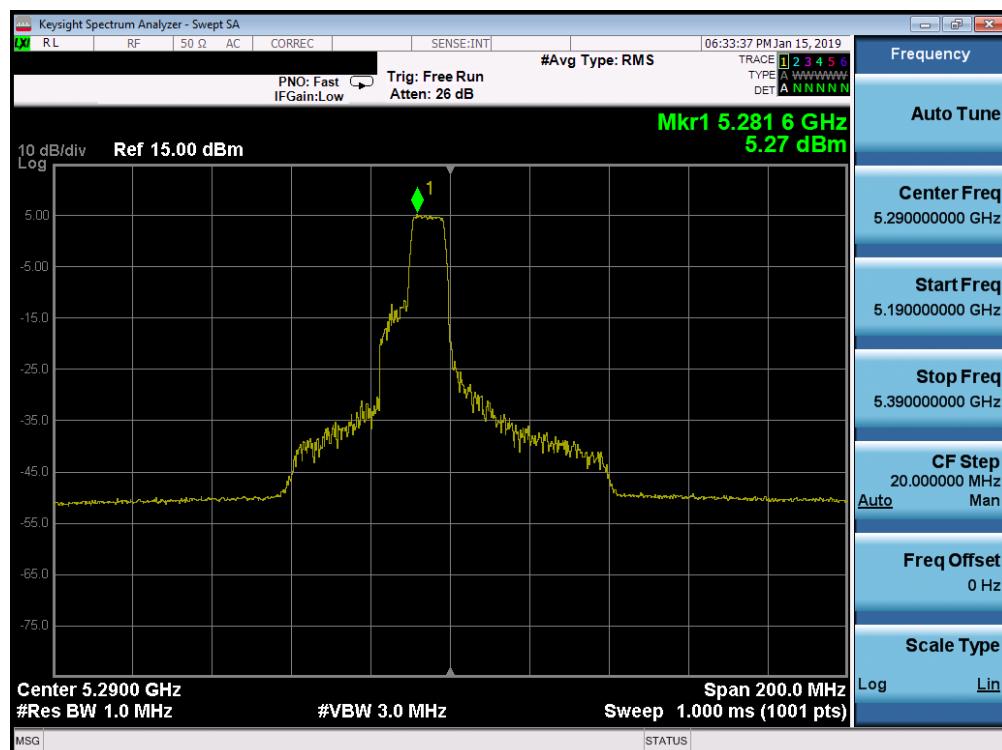


Plot 7-559. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 54)

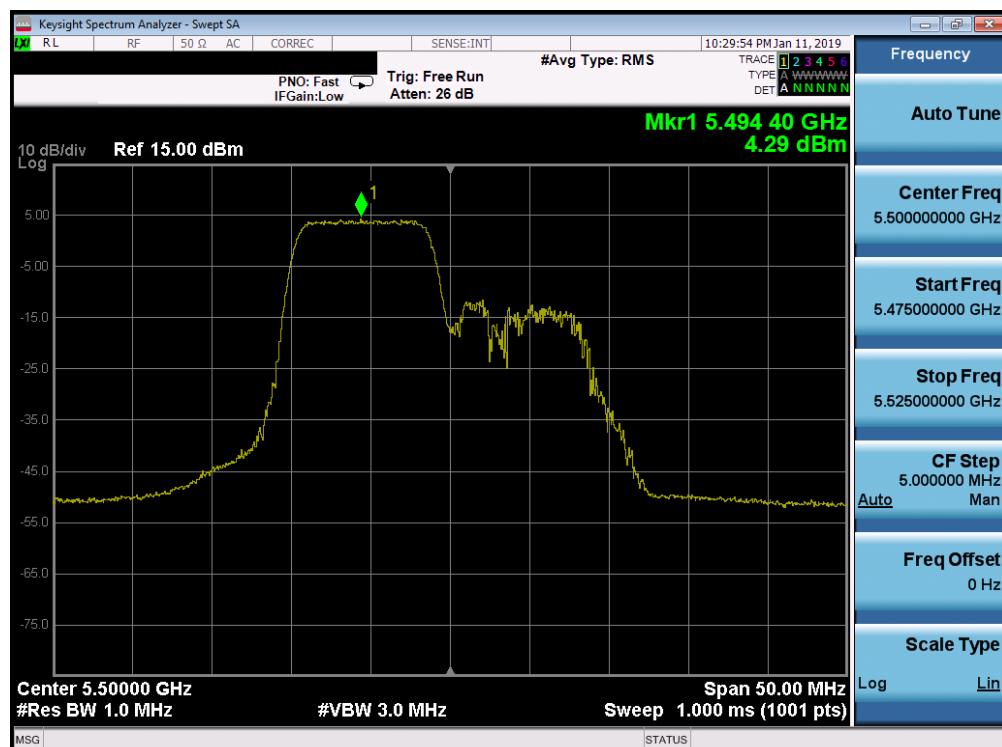


Plot 7-560. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 368 of 514

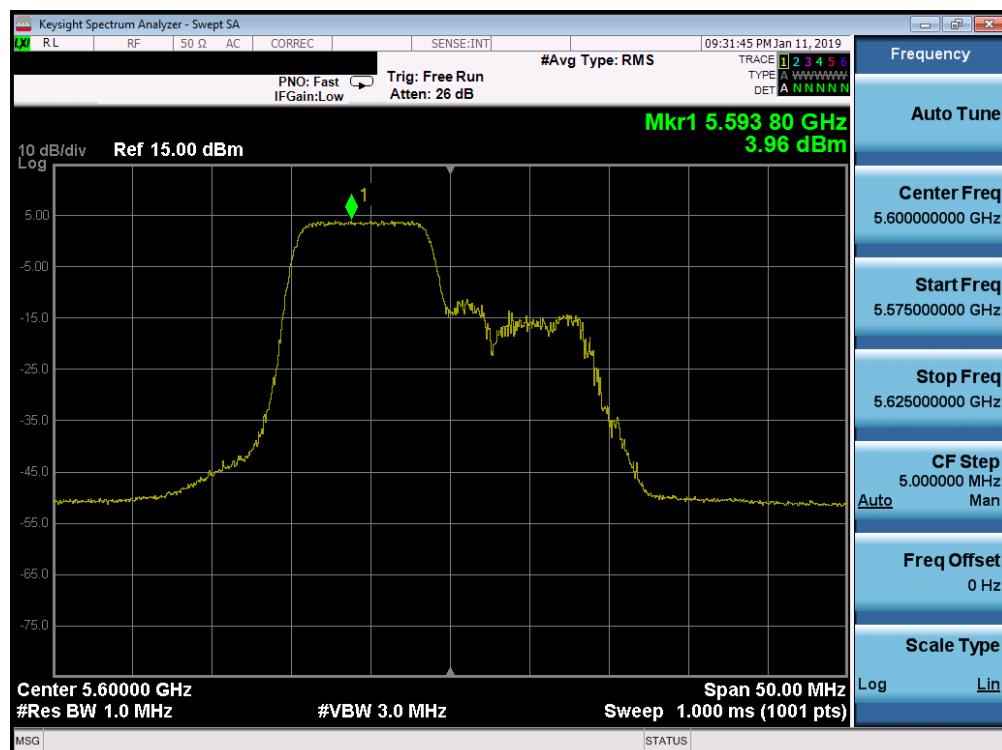


Plot 7-561. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 58)

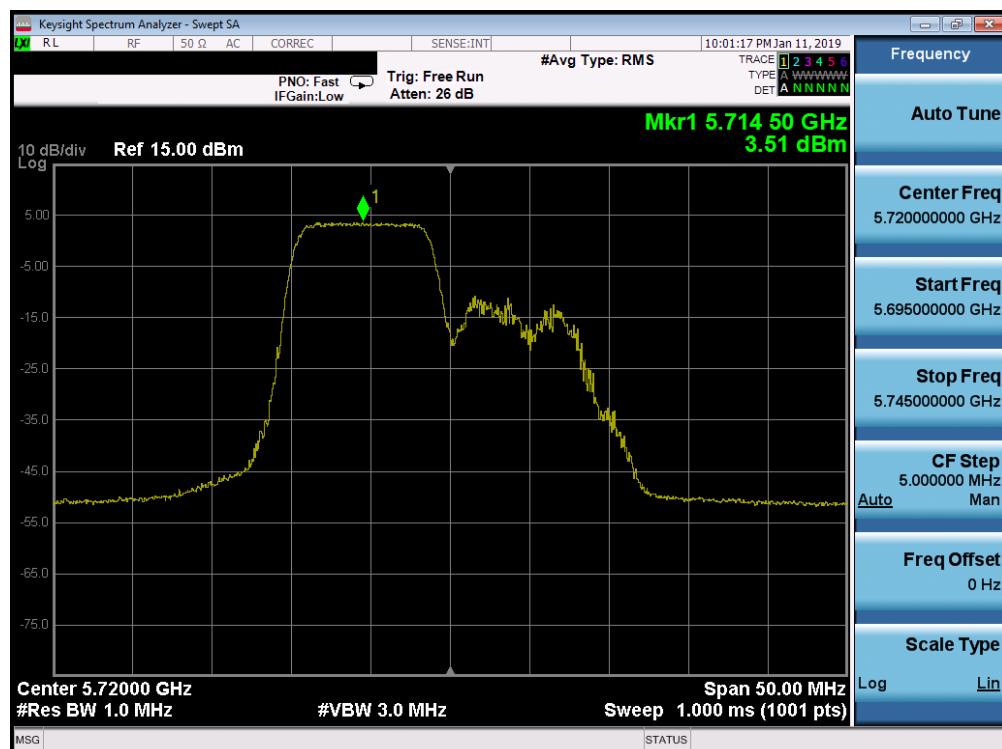


Plot 7-562. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 100)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 369 of 514	

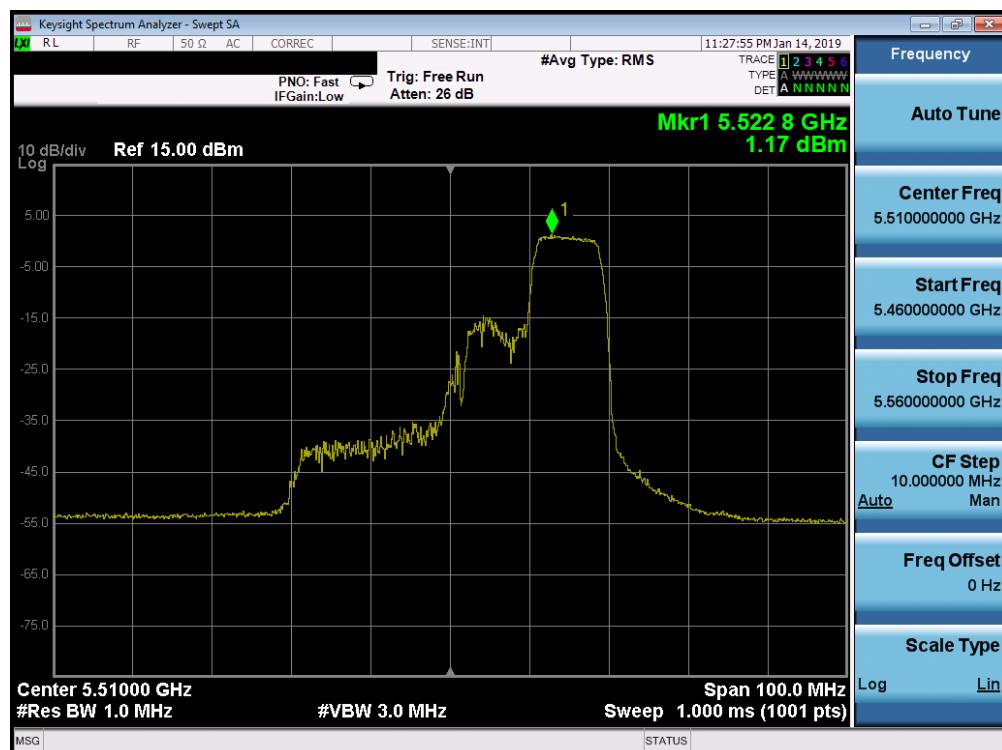


Plot 7-563. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 120)

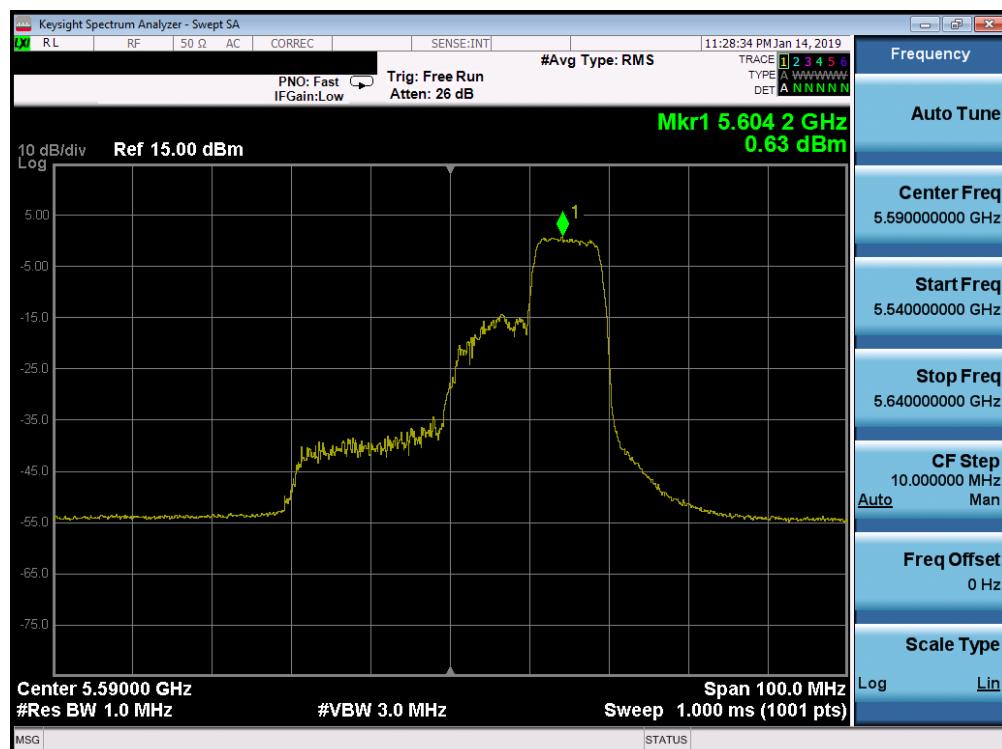


Plot 7-564. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 144)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 370 of 514

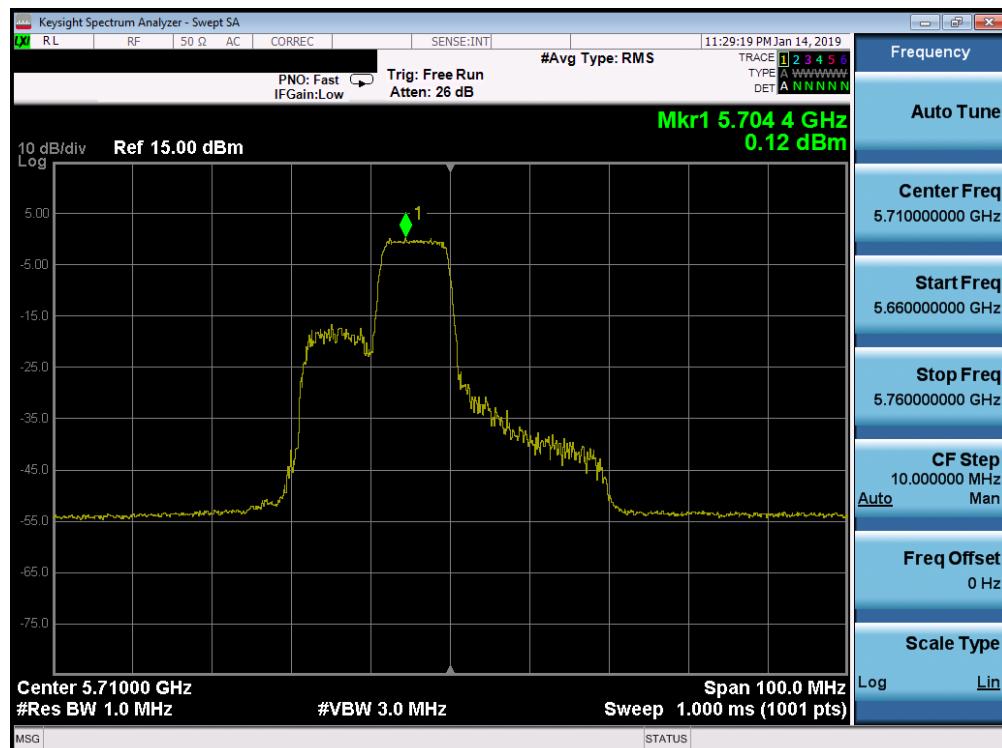


Plot 7-565. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 102)

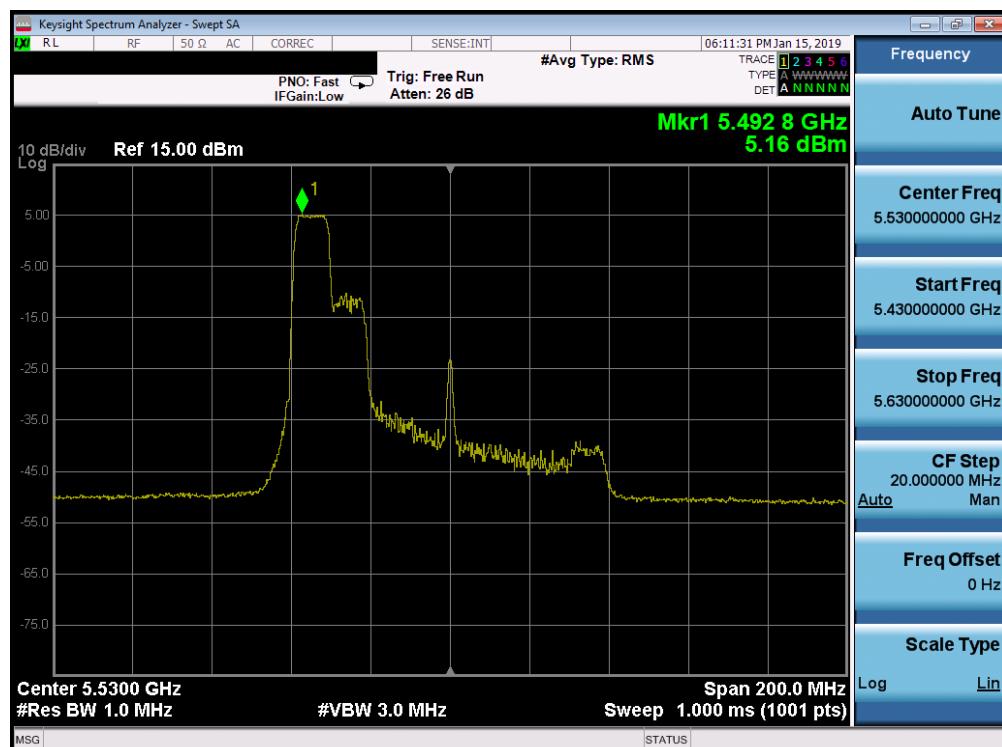


Plot 7-566. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 371 of 514

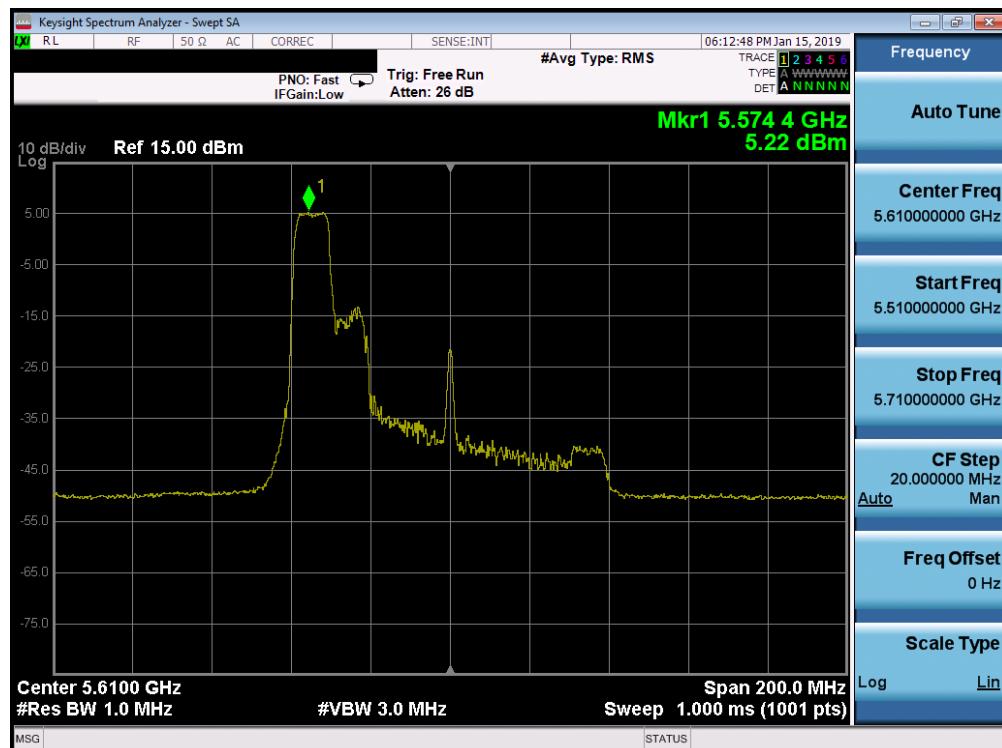


Plot 7-567. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 142)

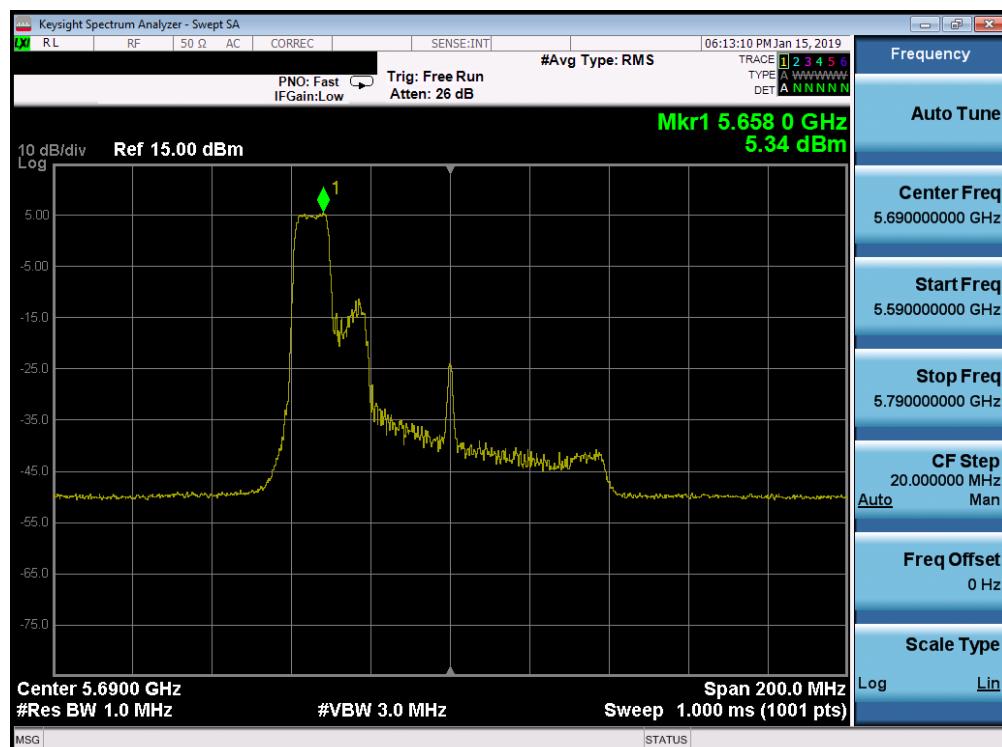


Plot 7-568. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 372 of 514	

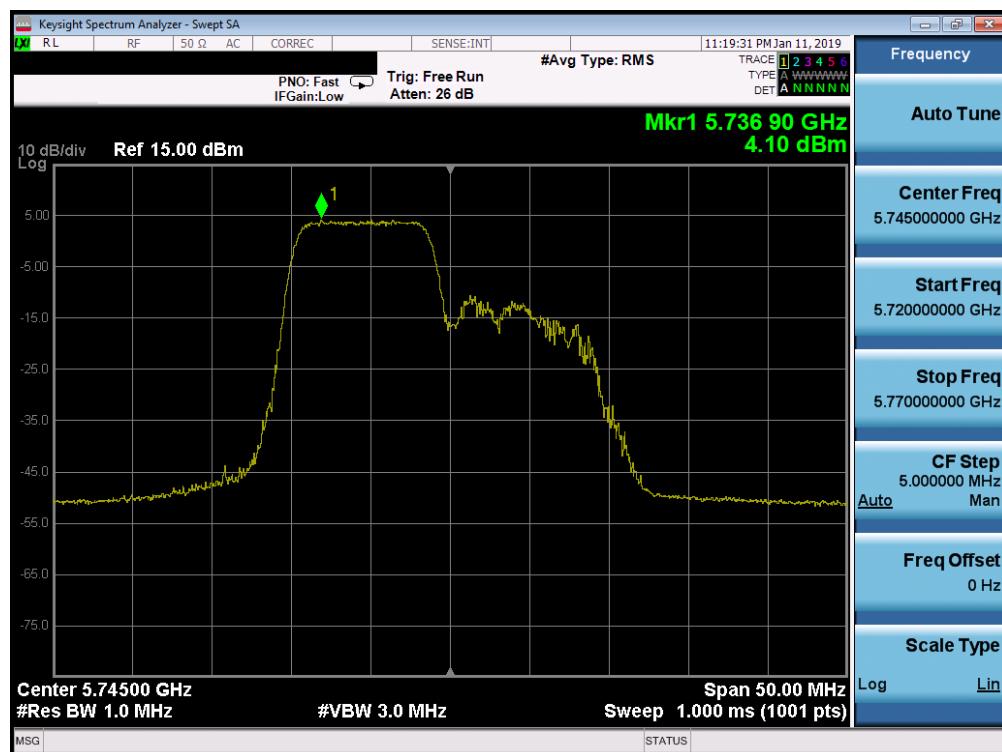


Plot 7-569. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 122)

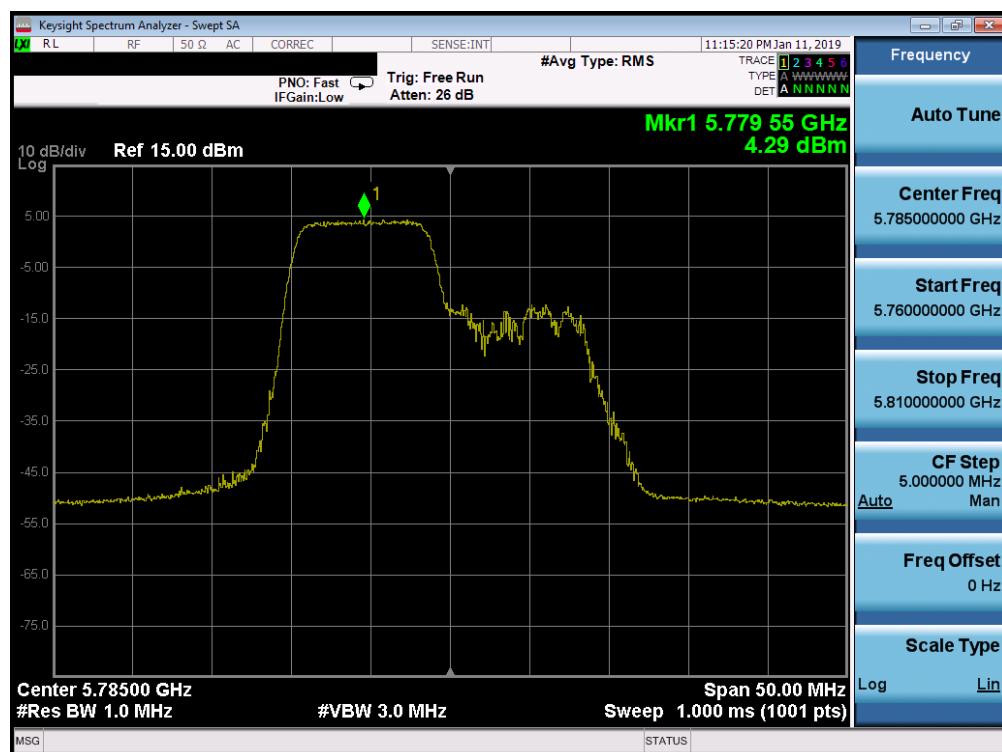


Plot 7-570. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 373 of 514

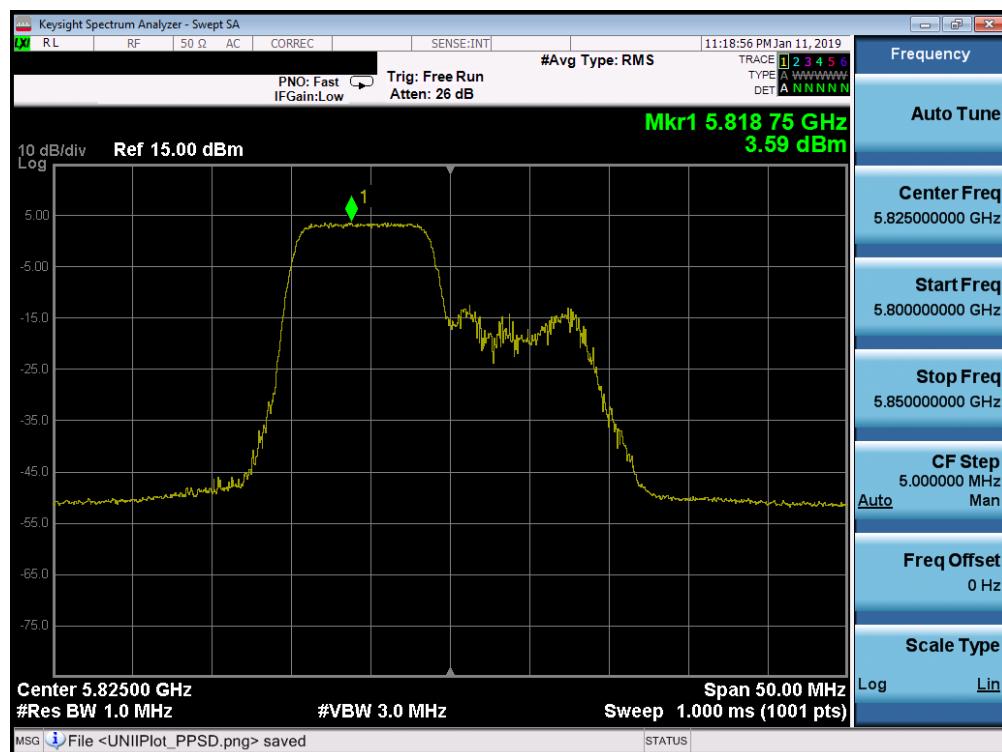


Plot 7-571. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 149)

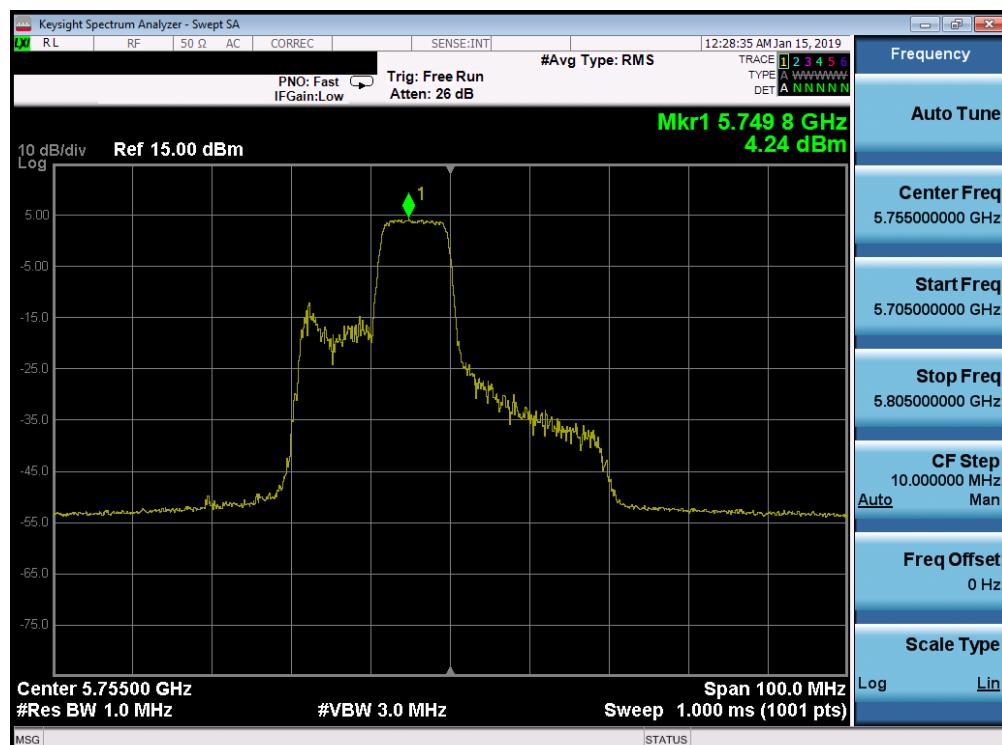


Plot 7-572. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 374 of 514

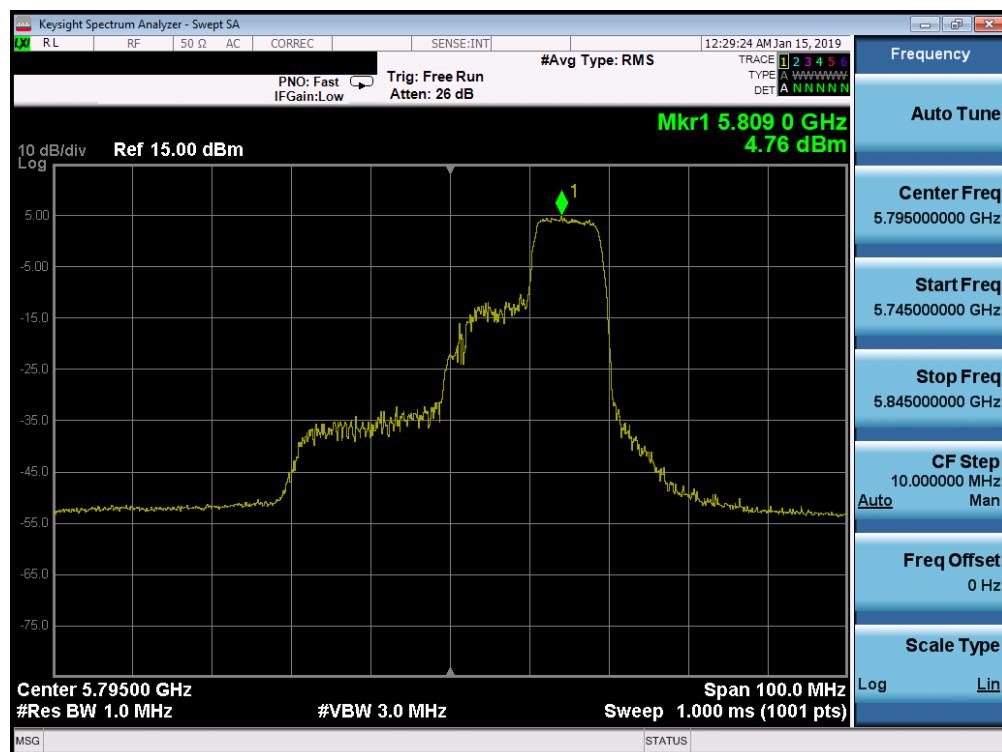


Plot 7-573. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 165)

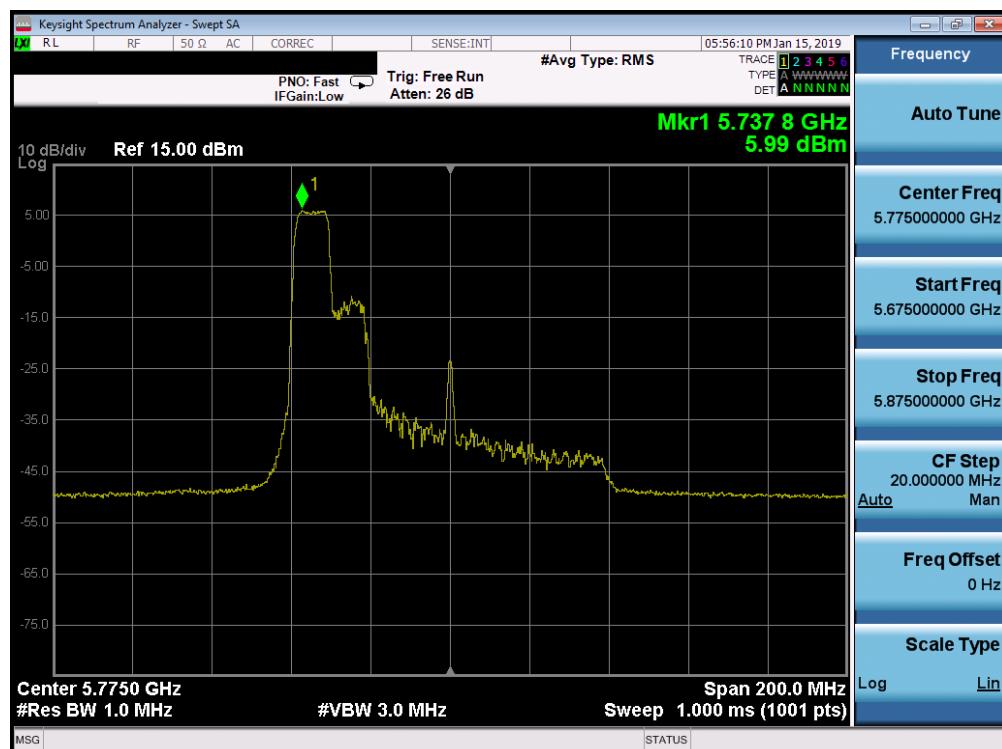


Plot 7-574. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 375 of 514



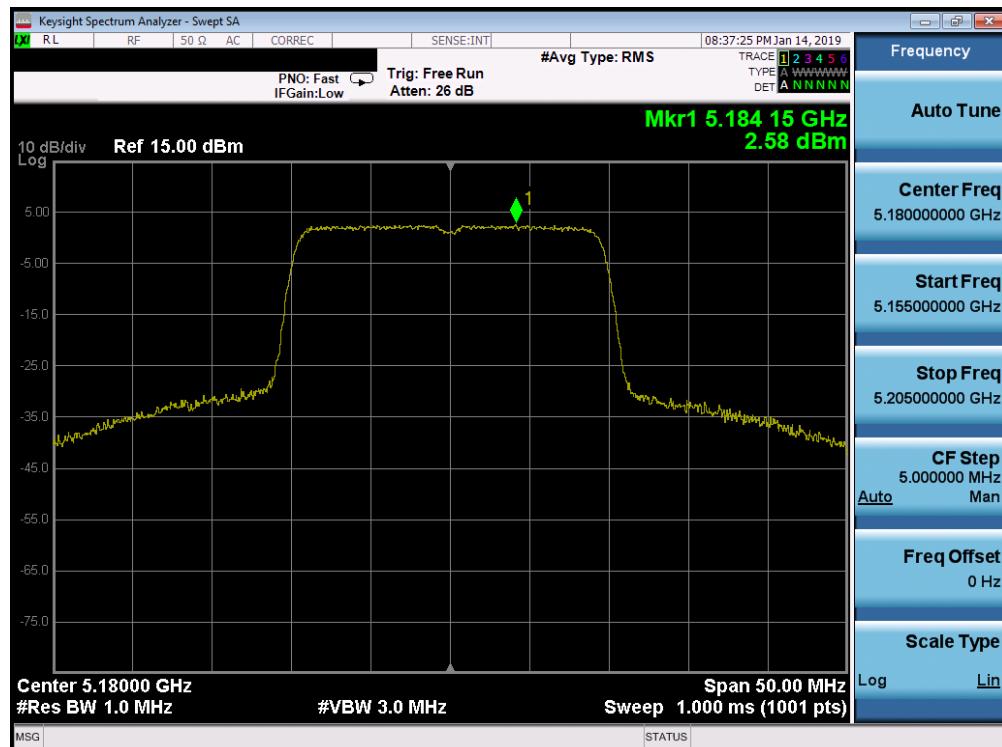
Plot 7-575. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 159)



Plot 7-576. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 155)

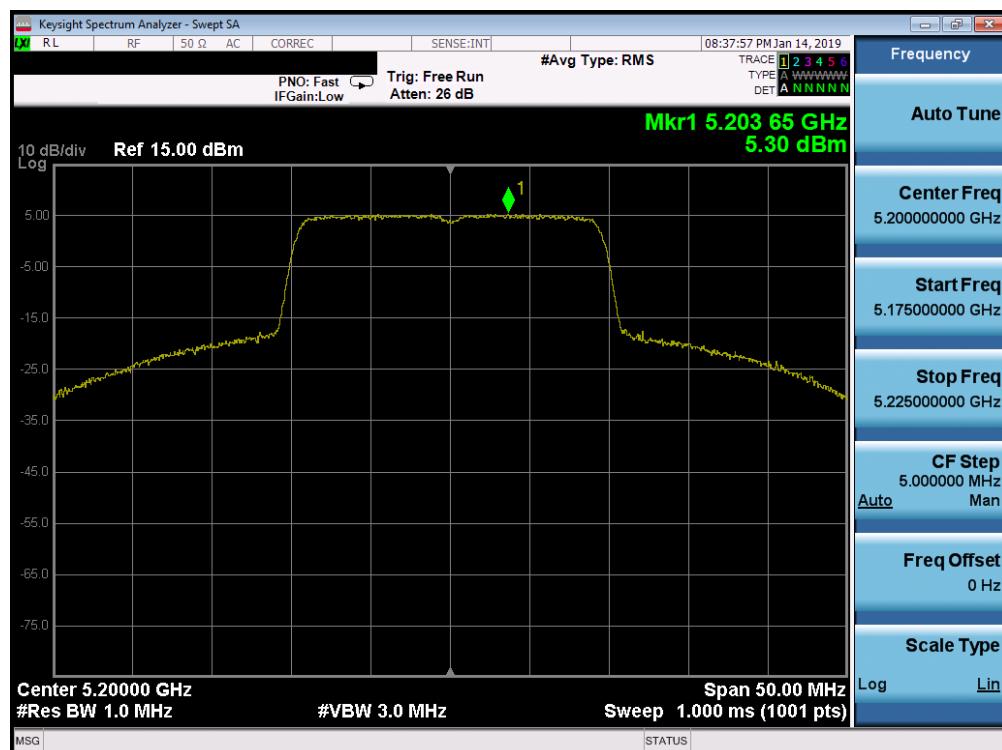
FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 376 of 514

MIMO Antenna-2 Power Spectral Density Measurements (242 Tones)

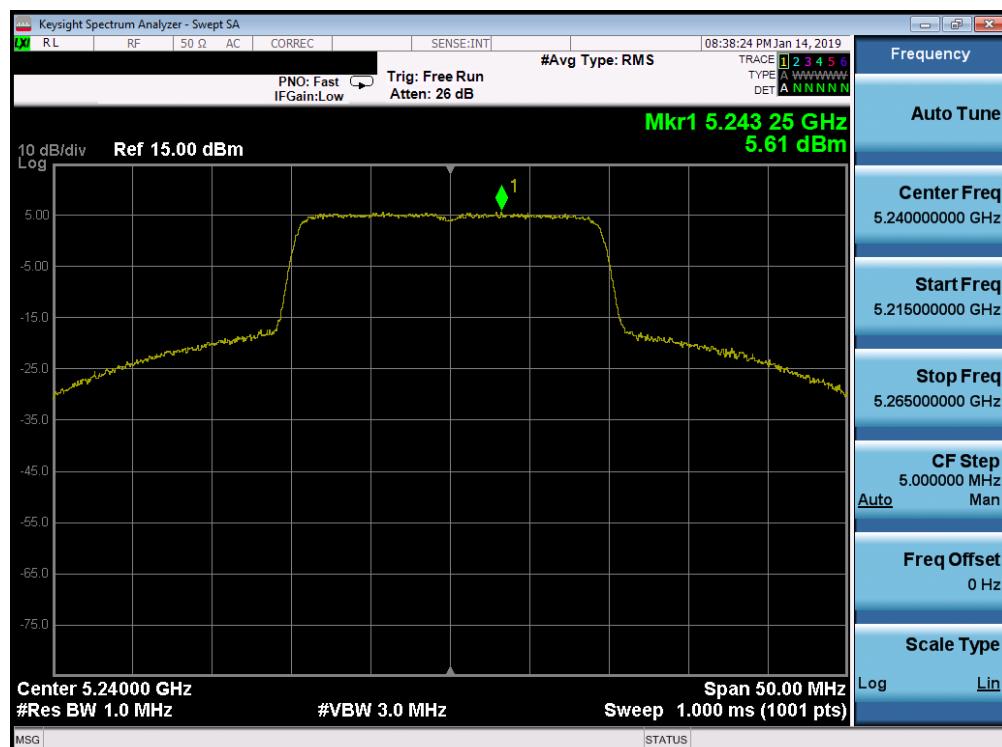


Plot 7-577. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 377 of 514

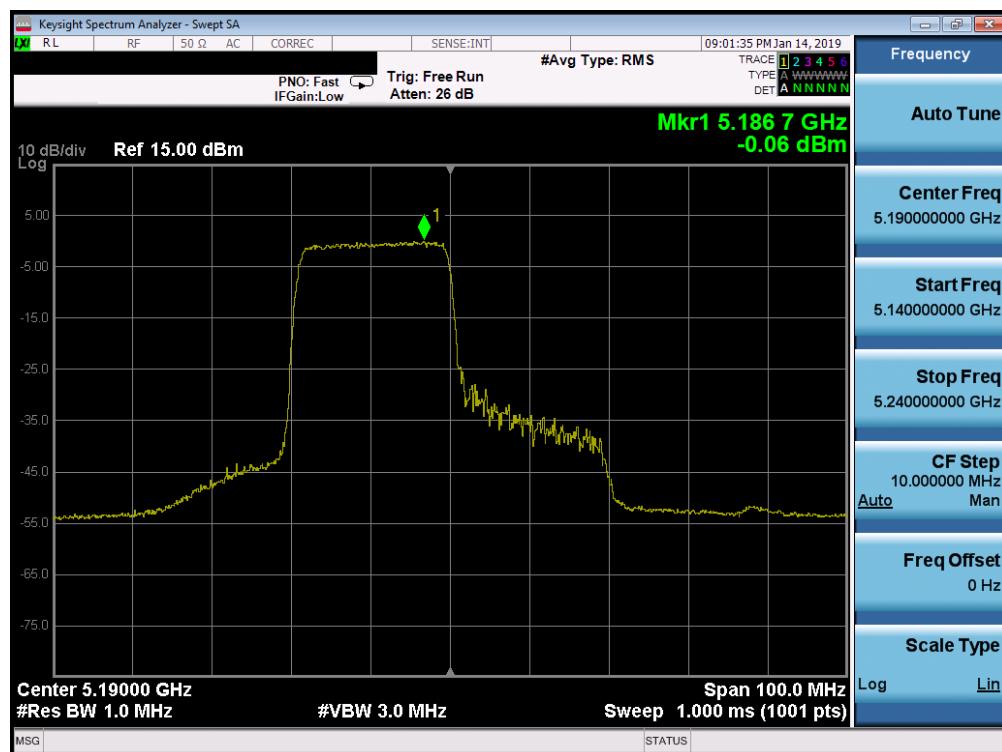


Plot 7-578. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

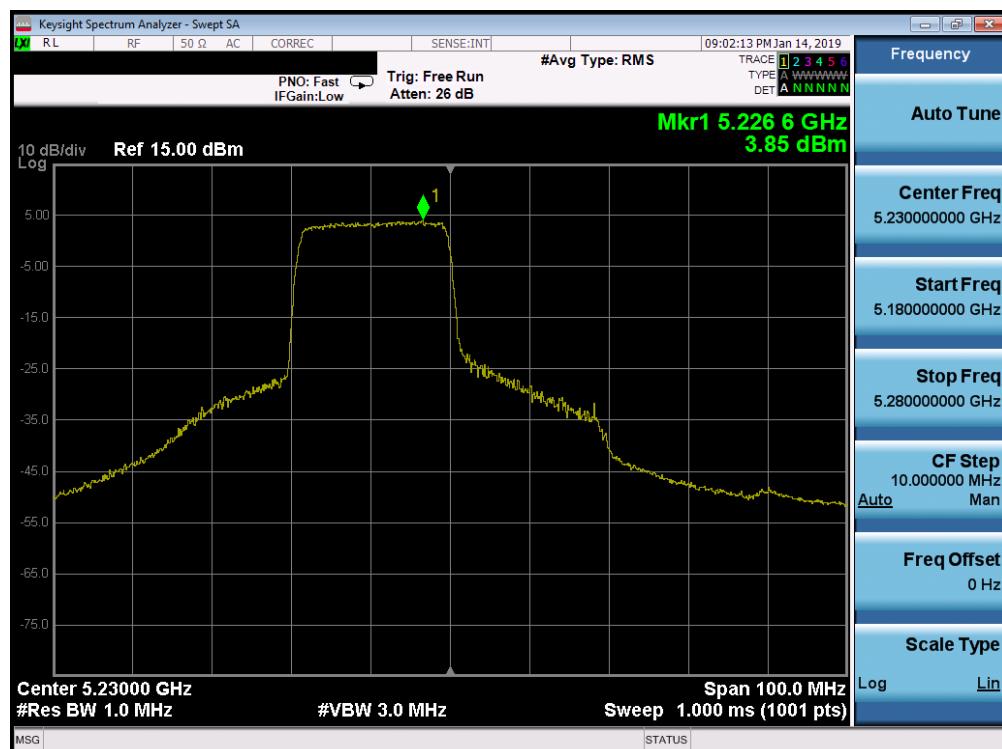


Plot 7-579. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 378 of 514

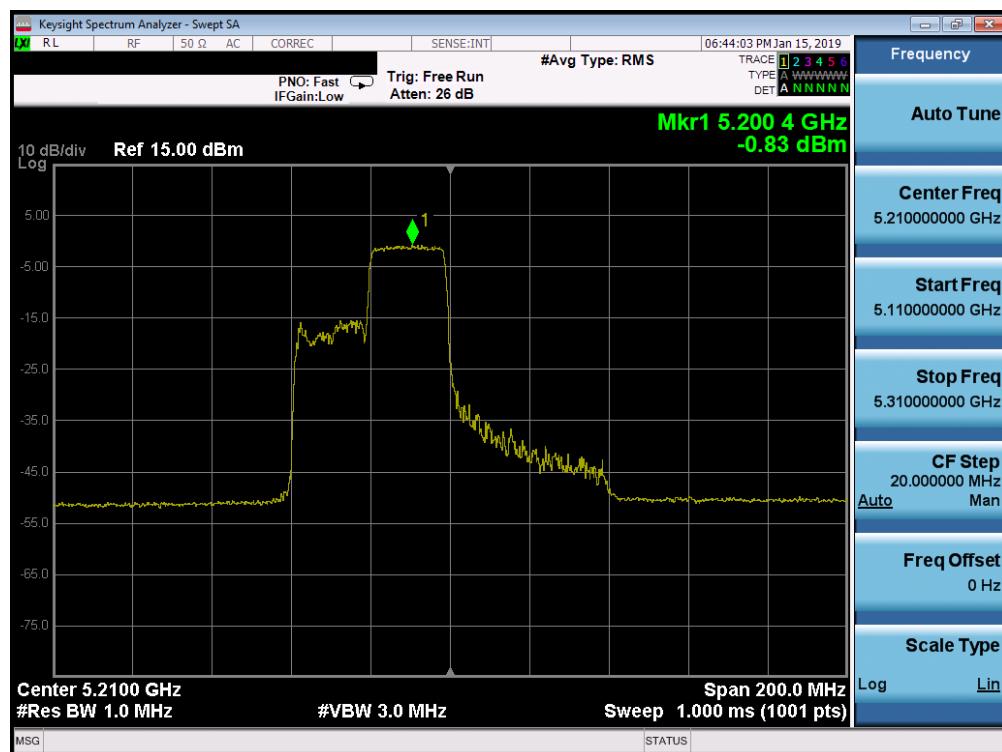


Plot 7-580. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

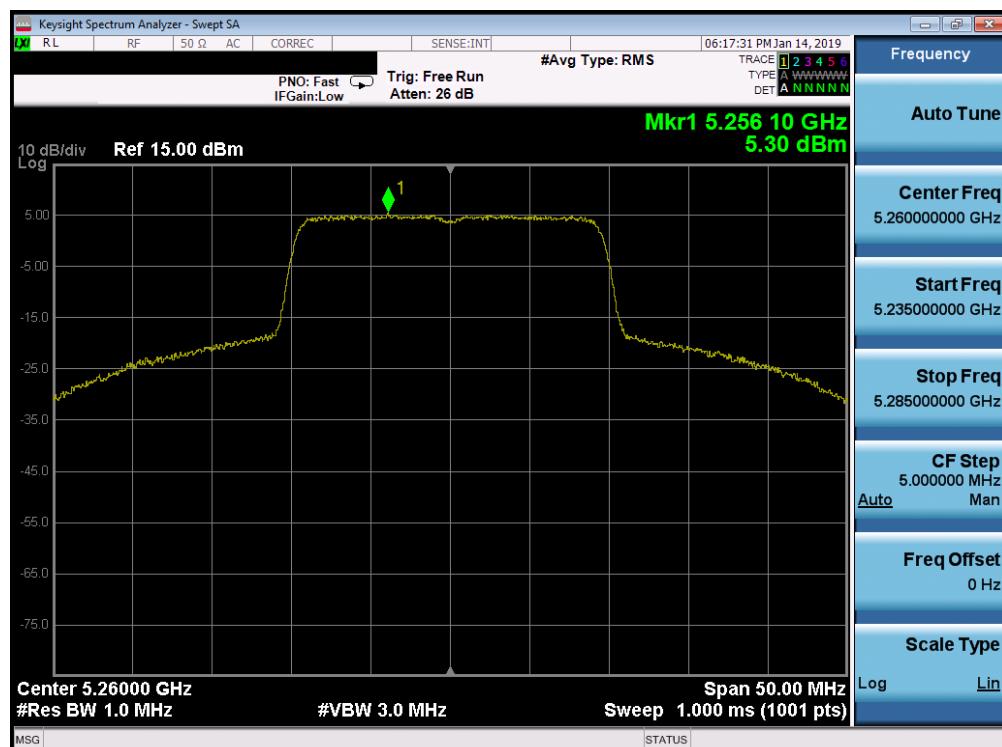


Plot 7-581. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 379 of 514

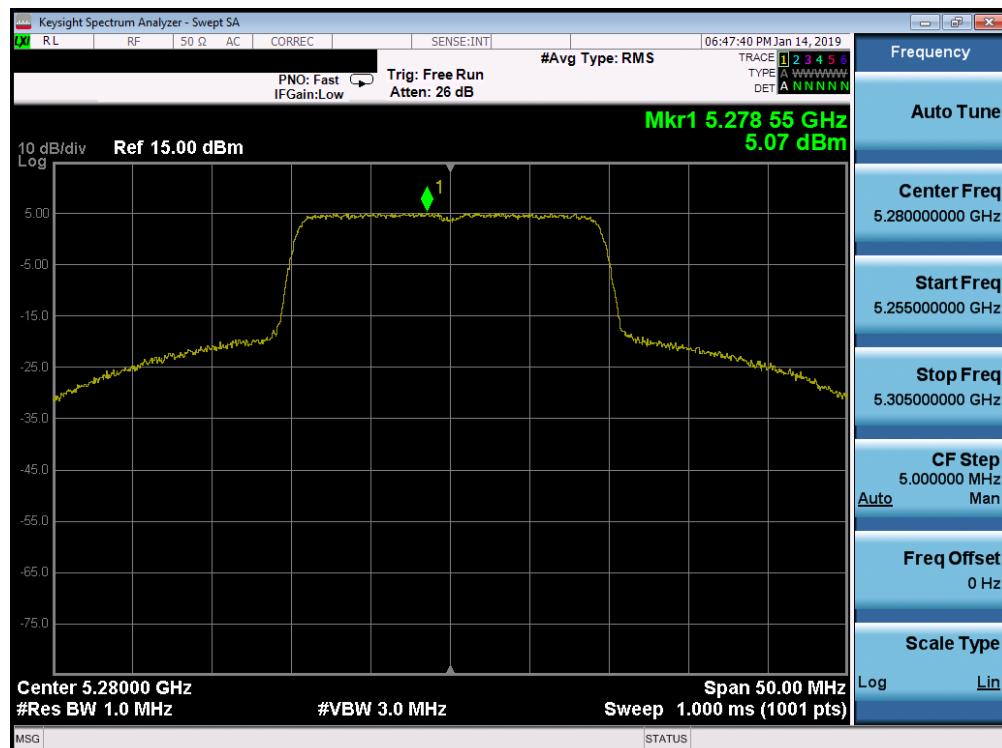


Plot 7-582. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

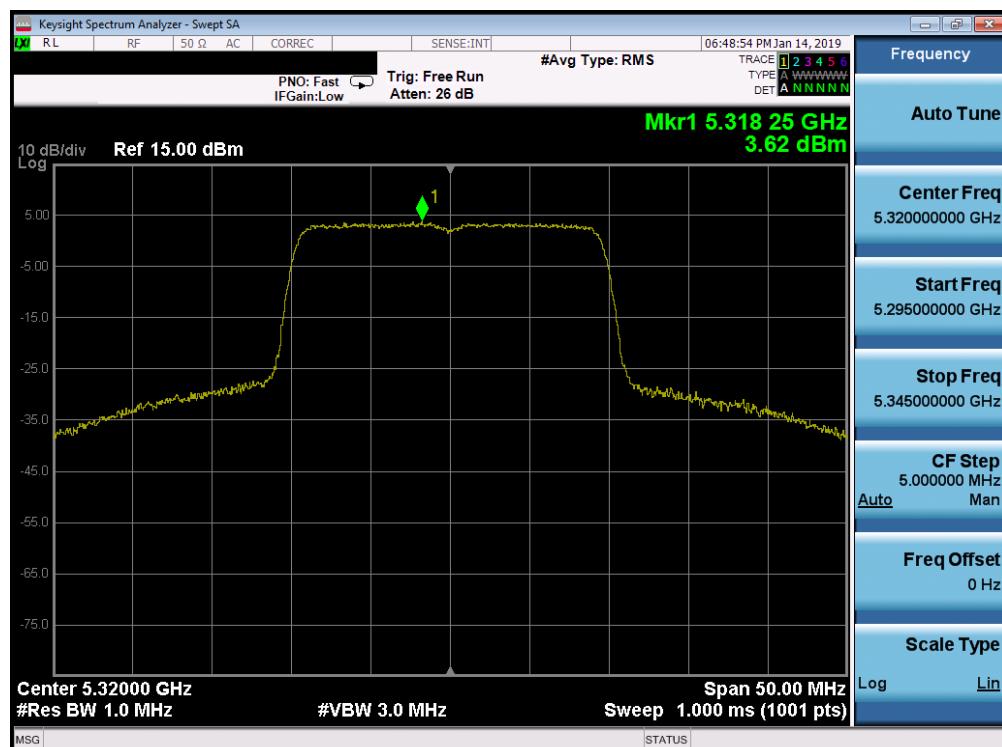


Plot 7-583. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 380 of 514

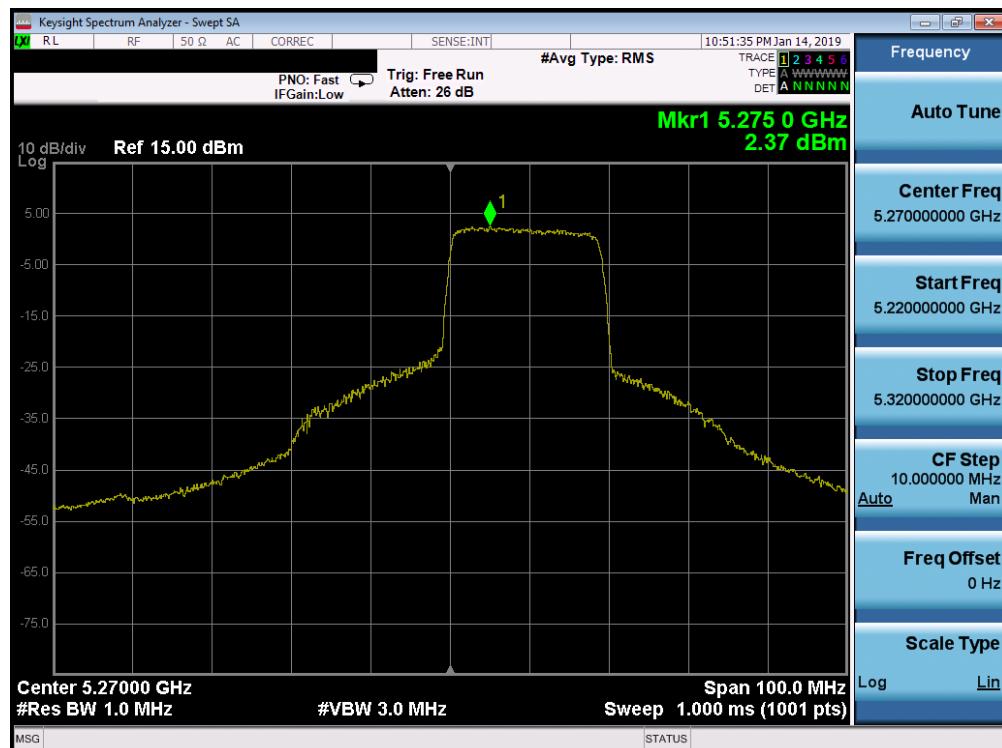


Plot 7-584. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

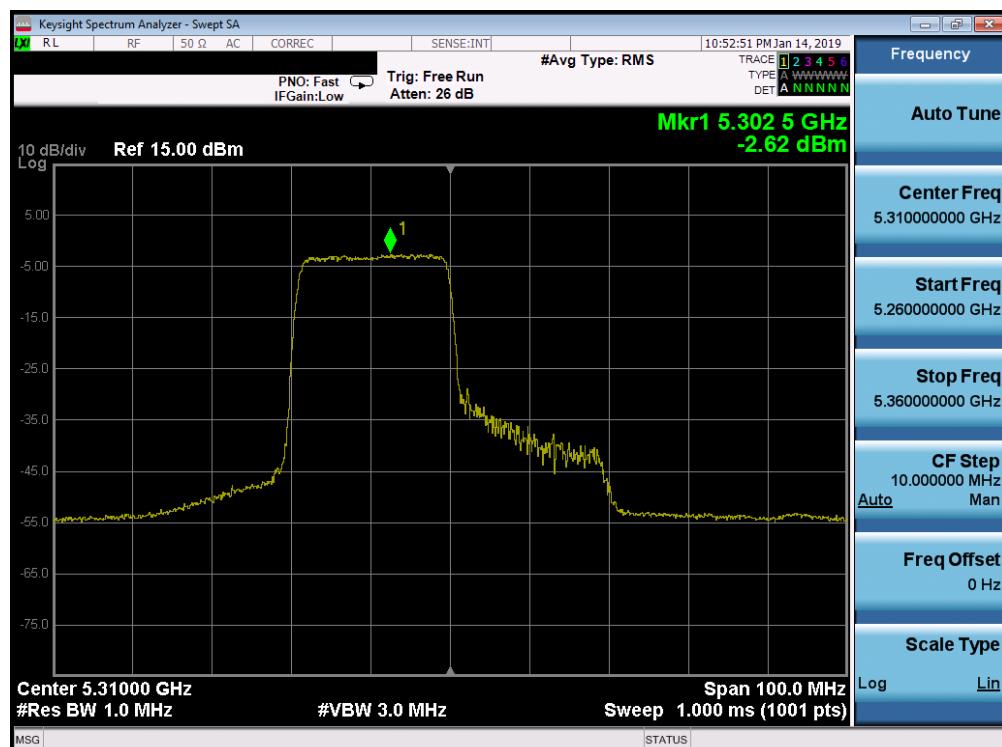


Plot 7-585. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 381 of 514

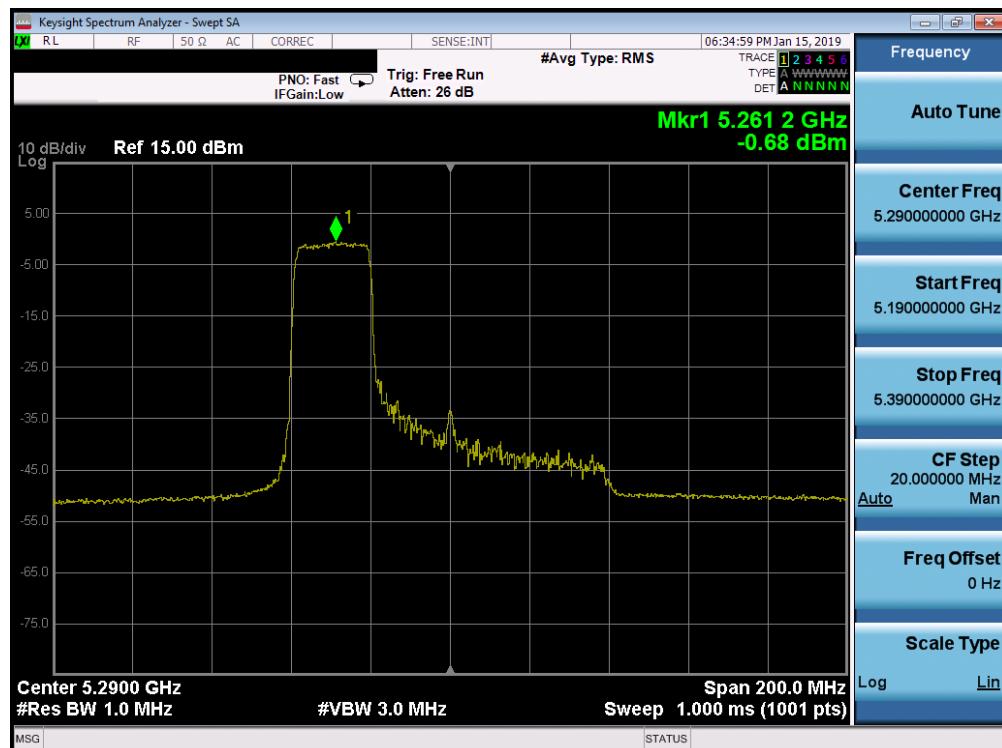


Plot 7-586. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

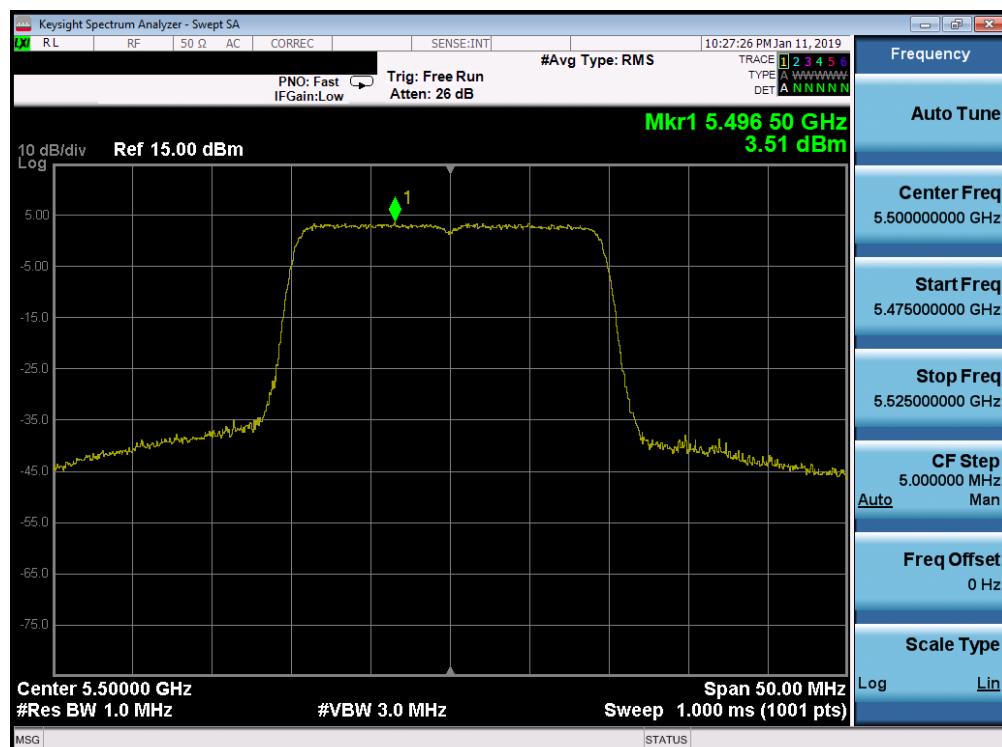


Plot 7-587. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 382 of 514

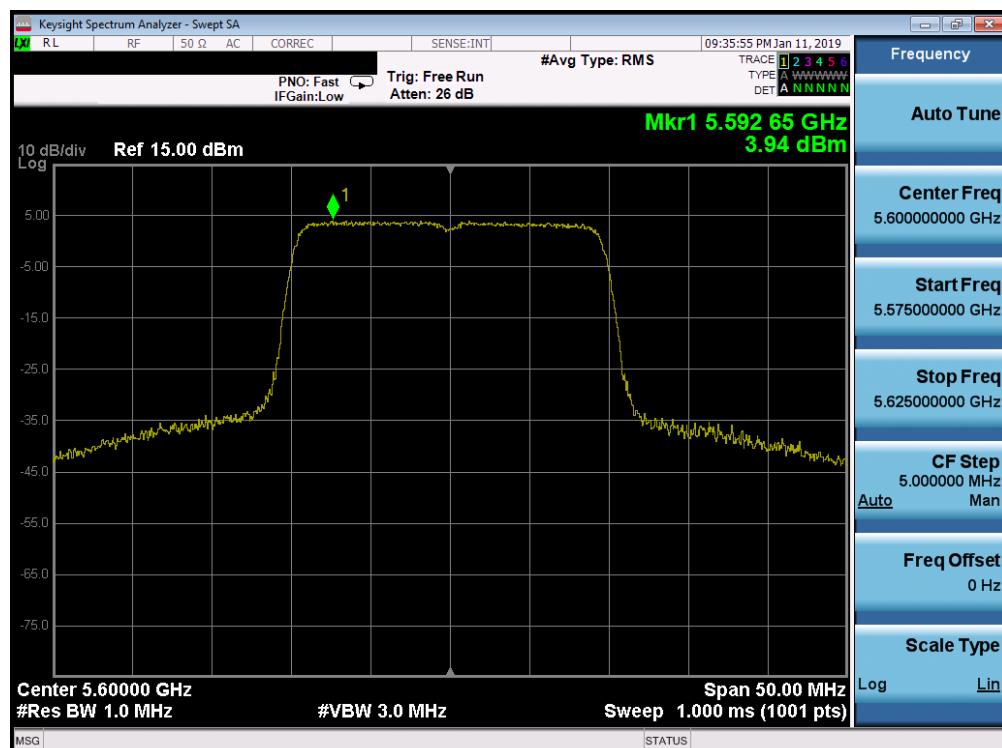


Plot 7-588. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

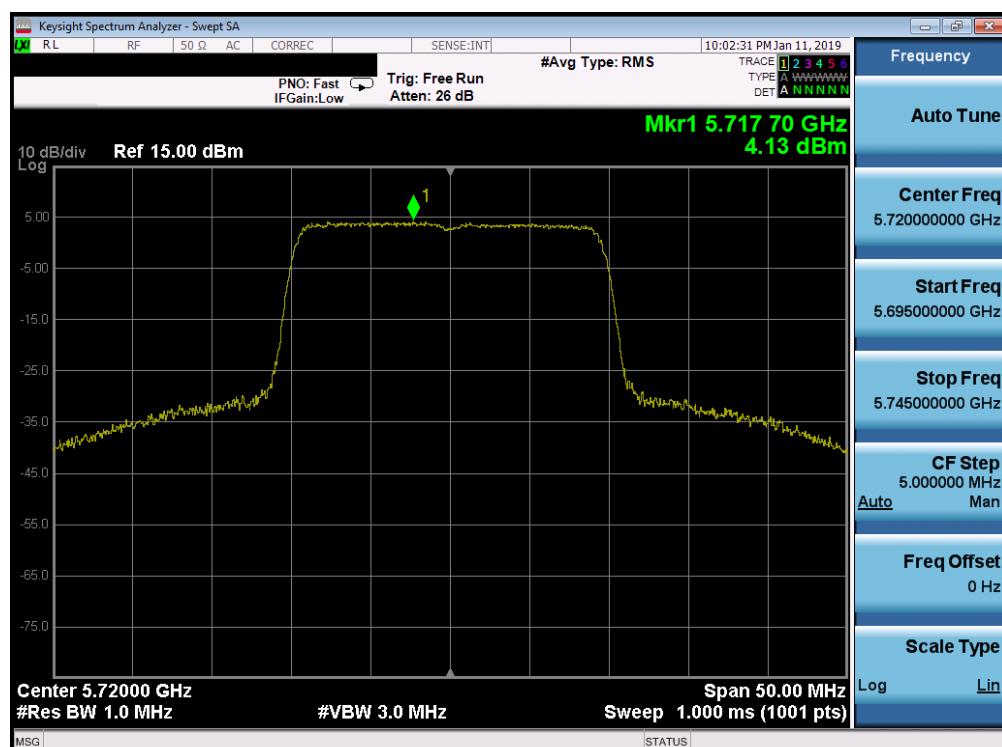


Plot 7-589. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 383 of 514

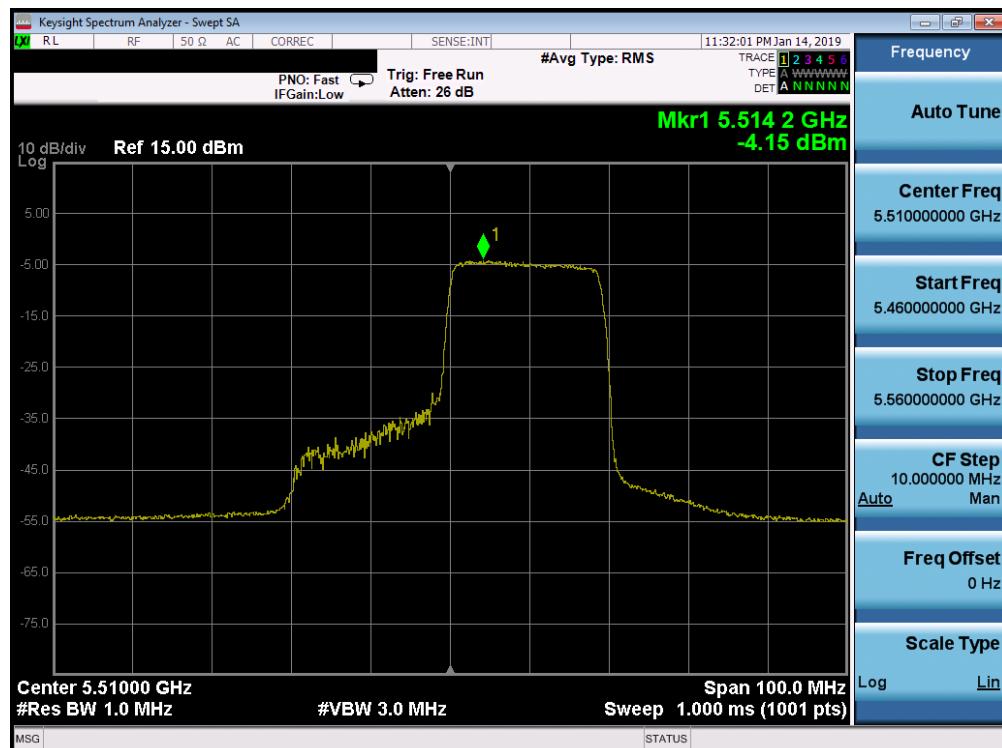


Plot 7-590. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

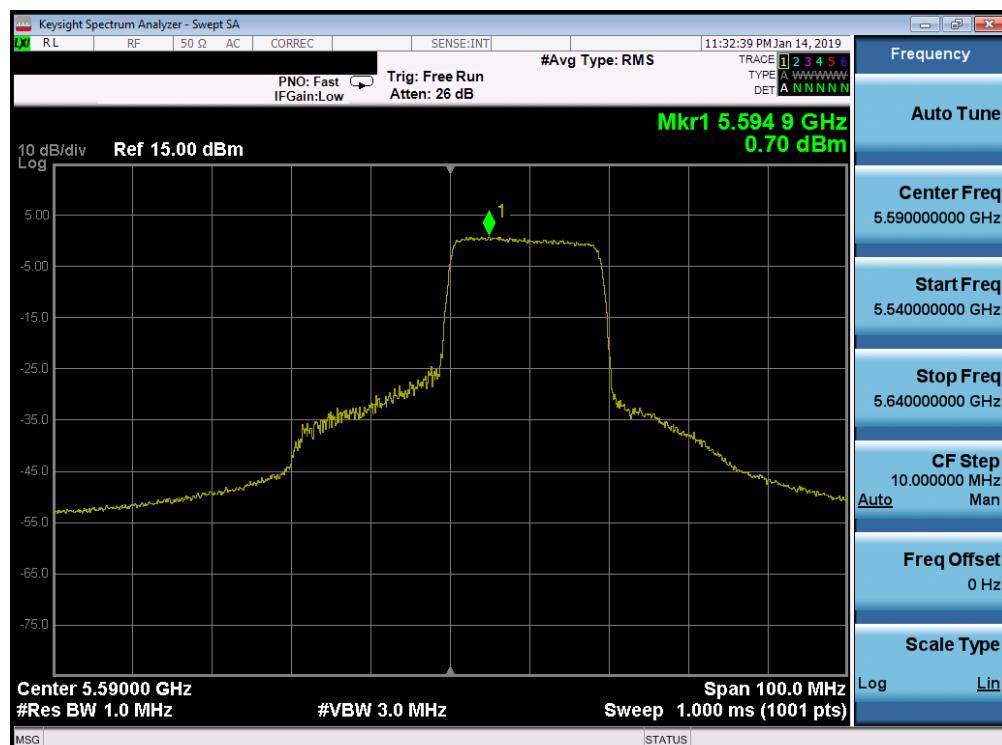


Plot 7-591. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 384 of 514

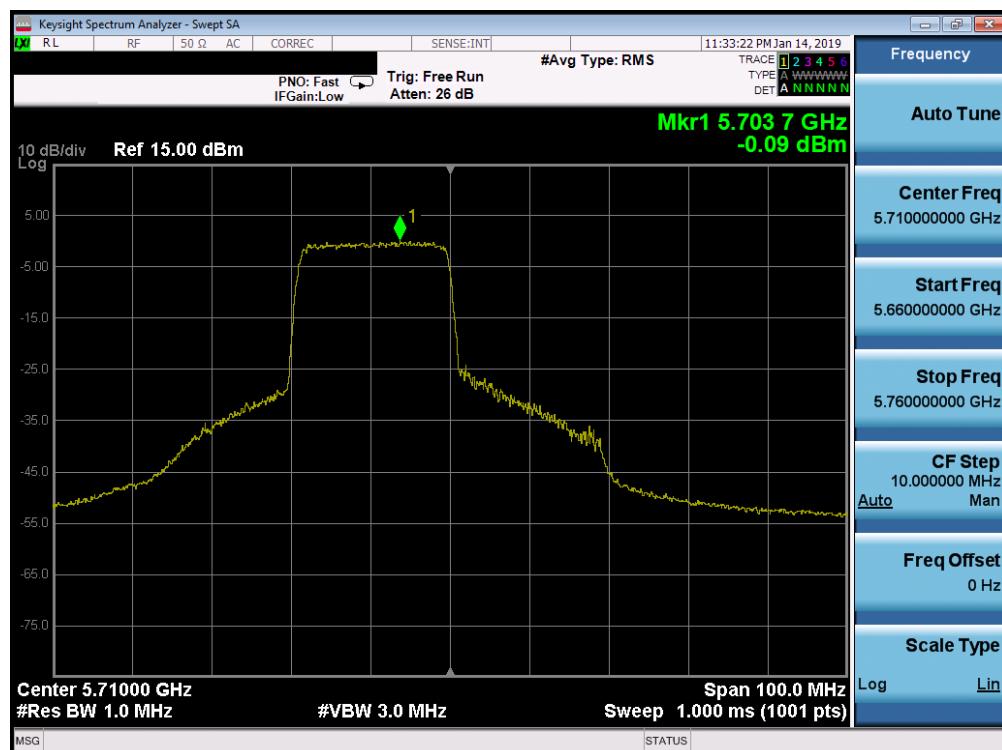


Plot 7-592. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

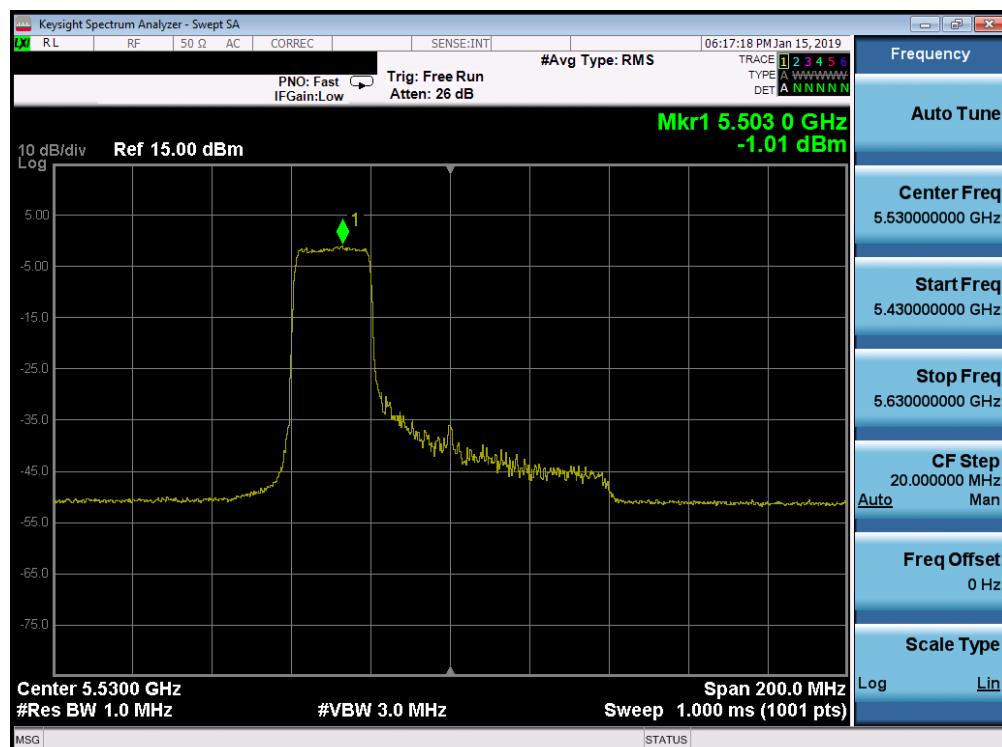


Plot 7-593. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 385 of 514

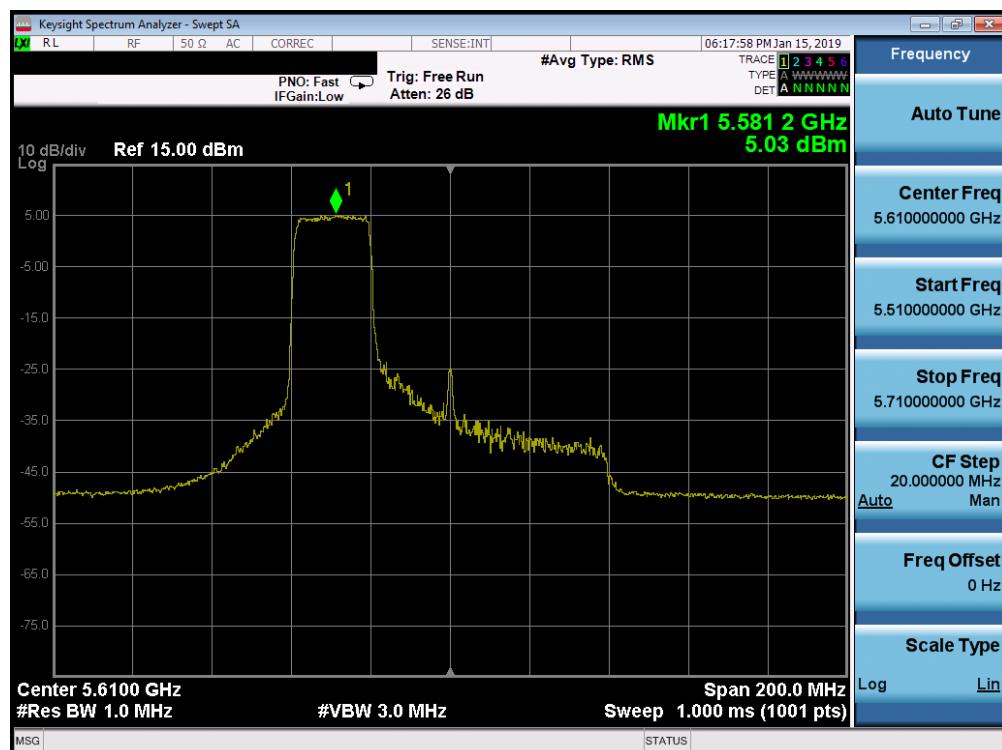


Plot 7-594. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

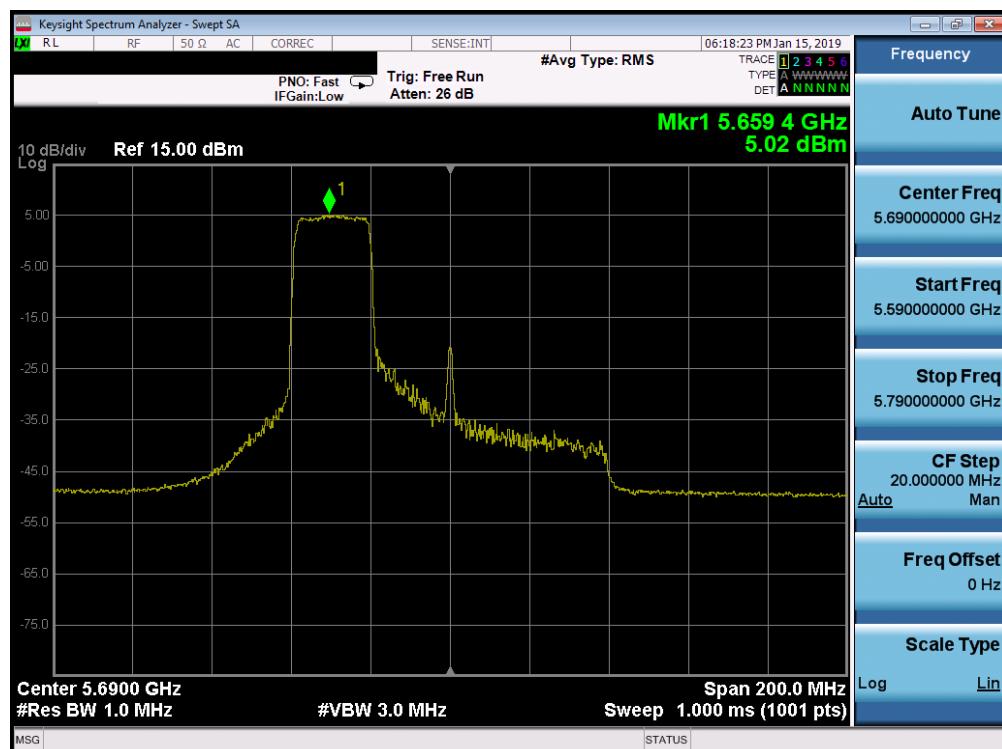


Plot 7-595. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 386 of 514

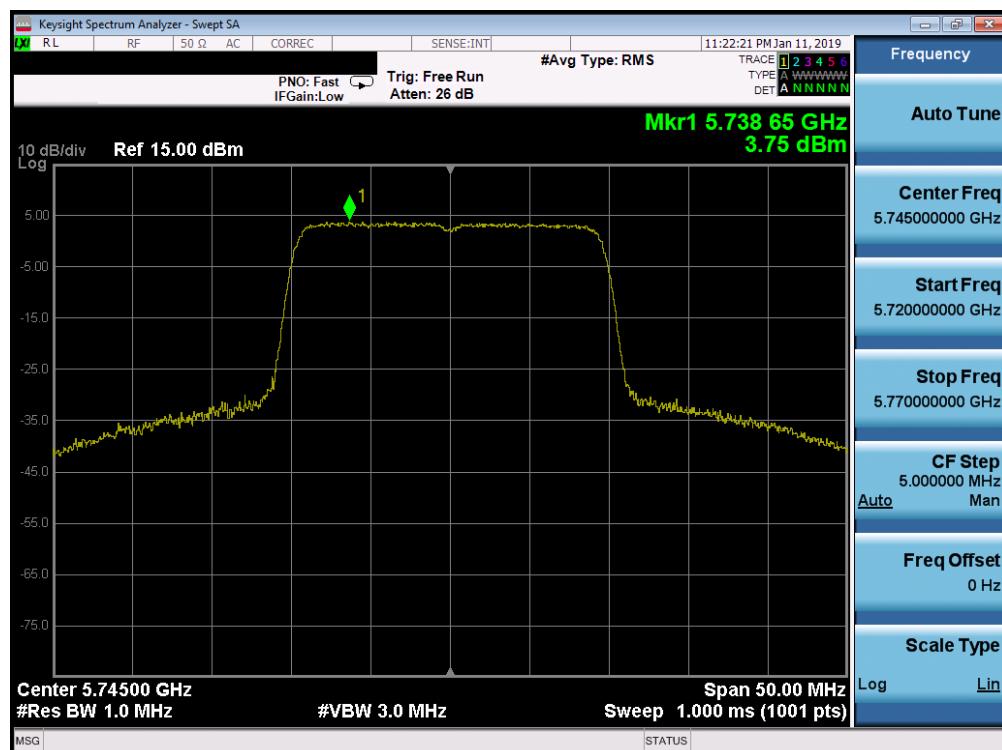


Plot 7-596. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

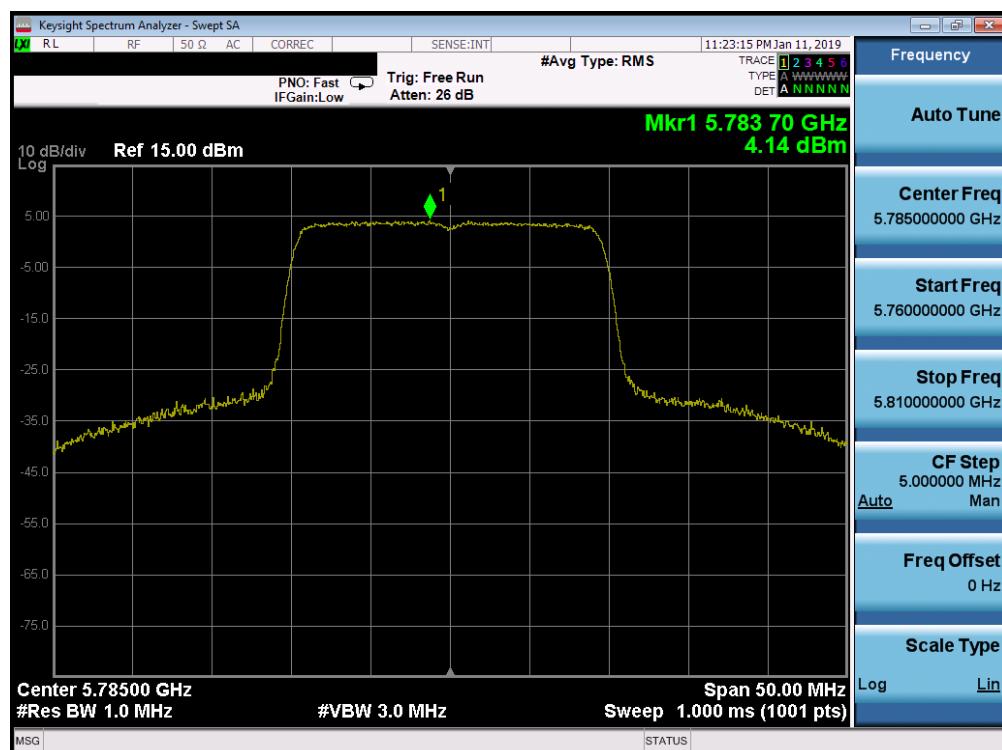


Plot 7-597. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 387 of 514

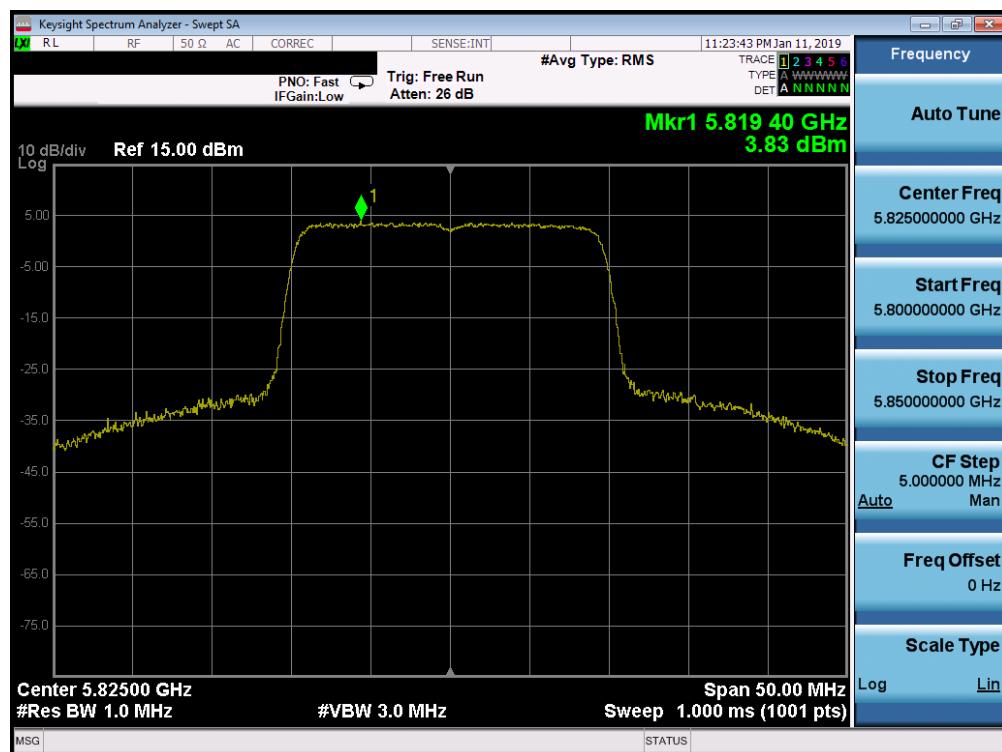


Plot 7-598. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

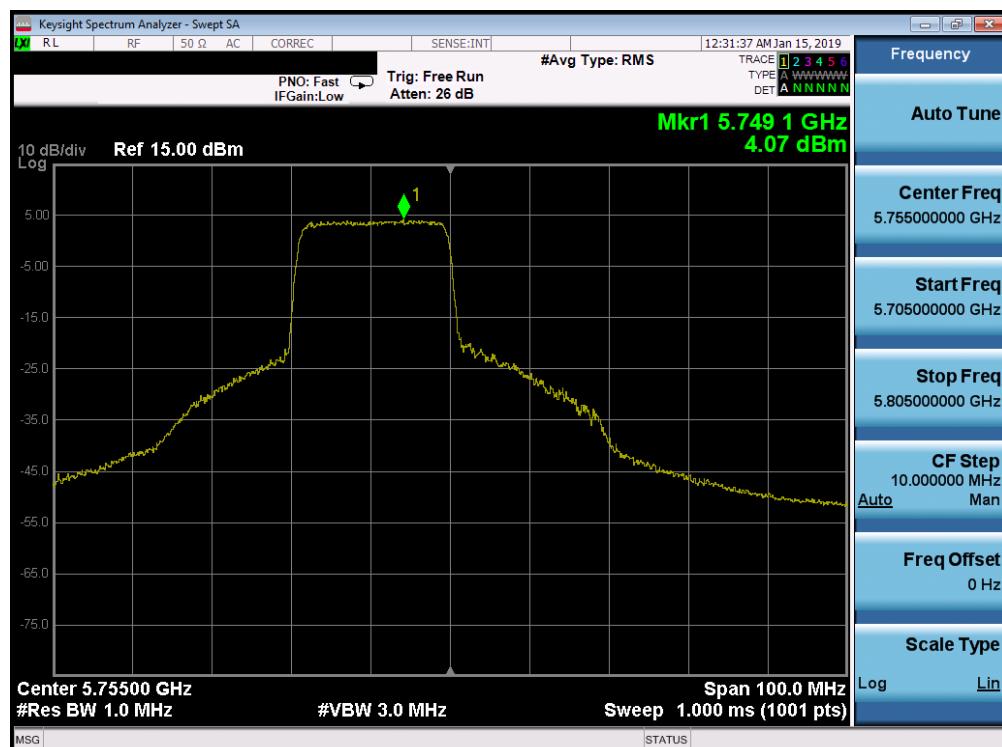


Plot 7-599. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 388 of 514

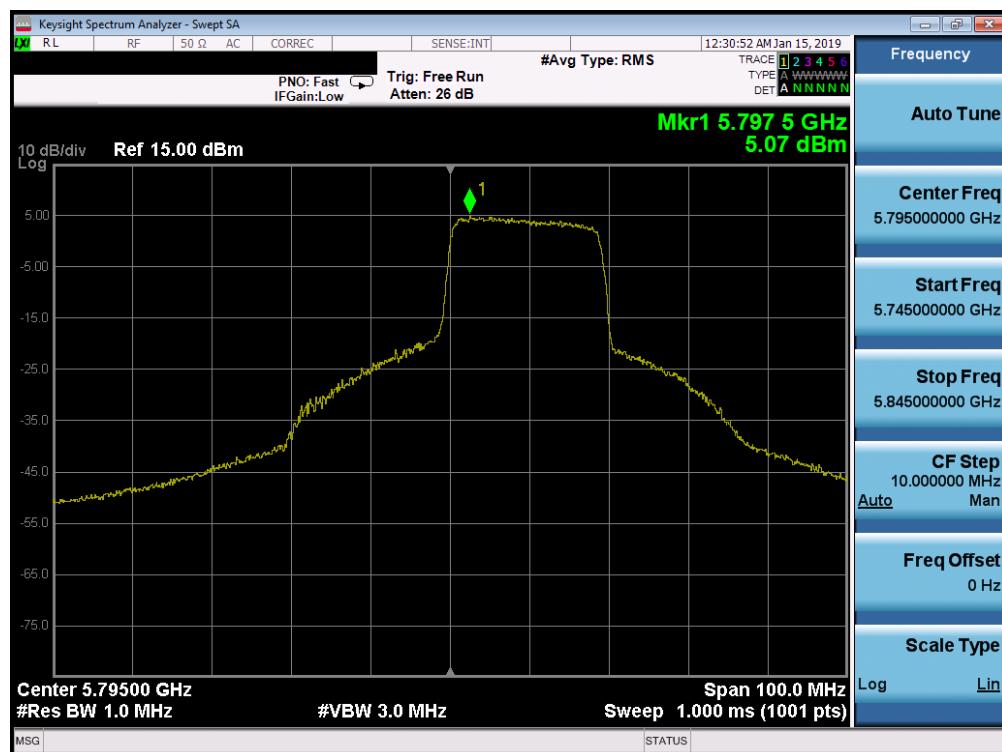


Plot 7-600. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

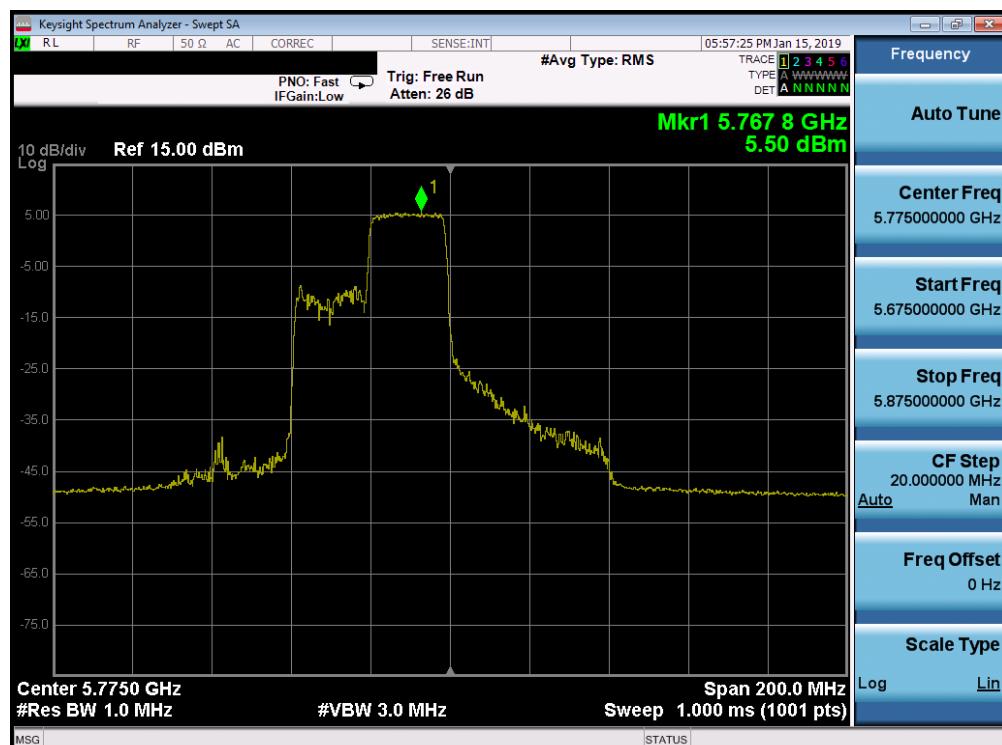


Plot 7-601. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 389 of 514



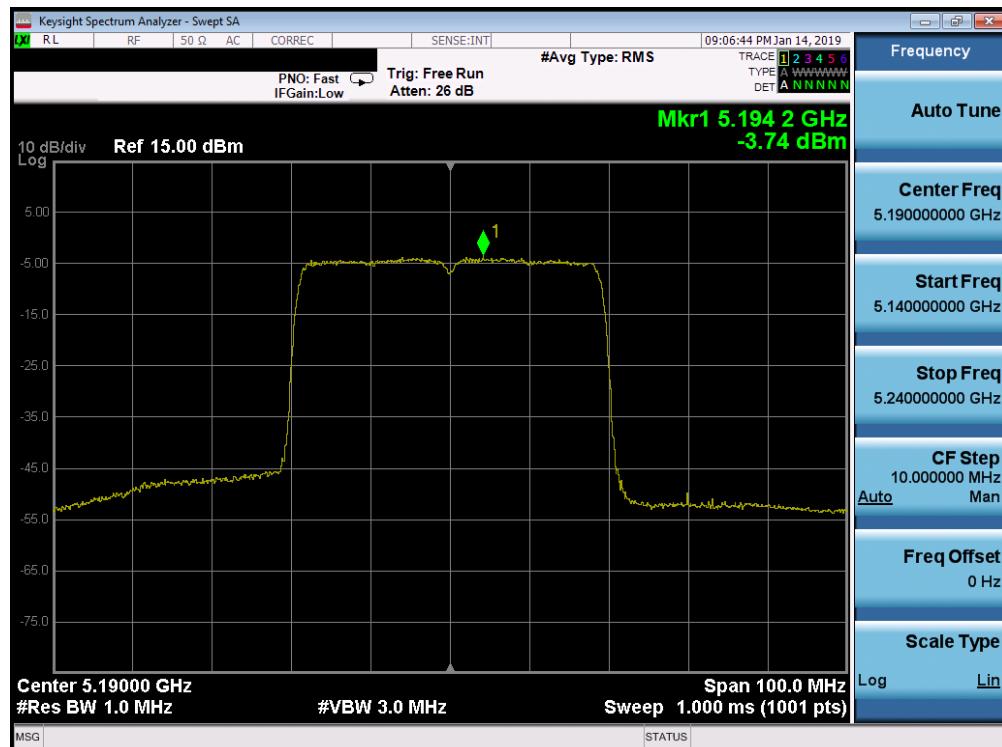
Plot 7-602. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 159)



Plot 7-603. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 155)

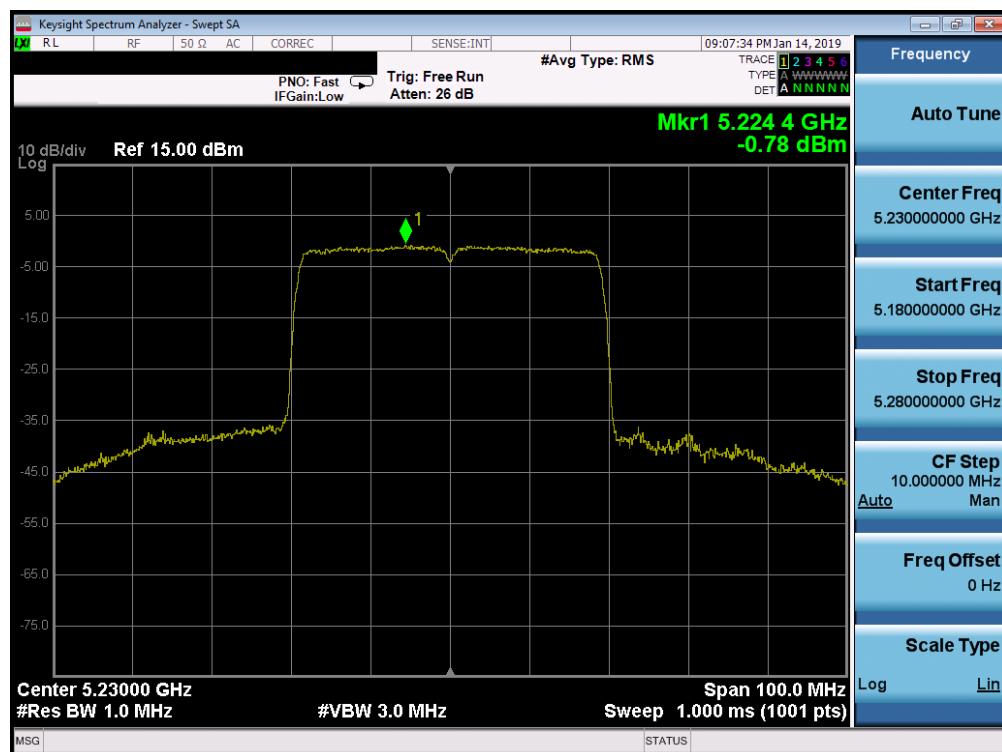
FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 390 of 514

MIMO Antenna-2 Power Spectral Density Measurements (484 Tones)

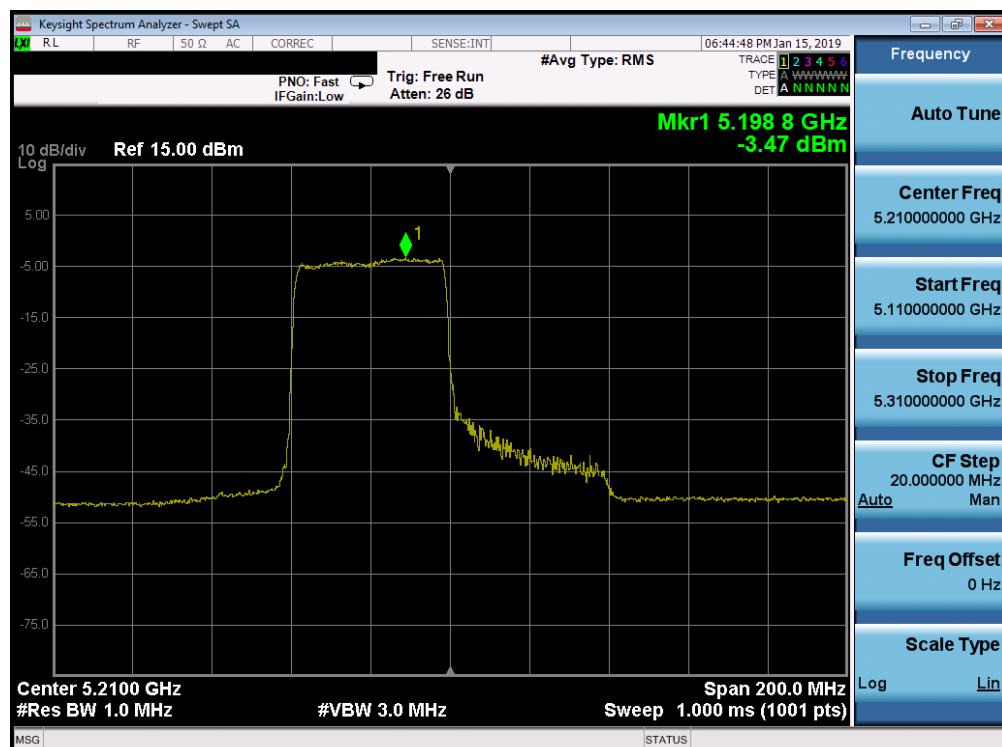


Plot 7-604. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 391 of 514

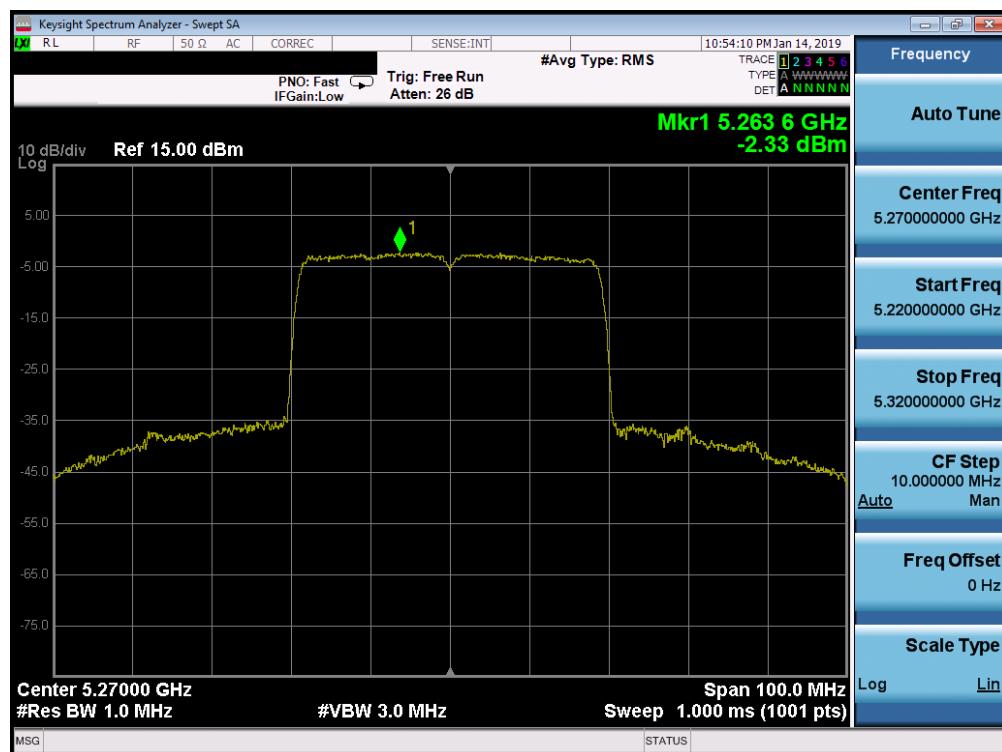


Plot 7-605. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

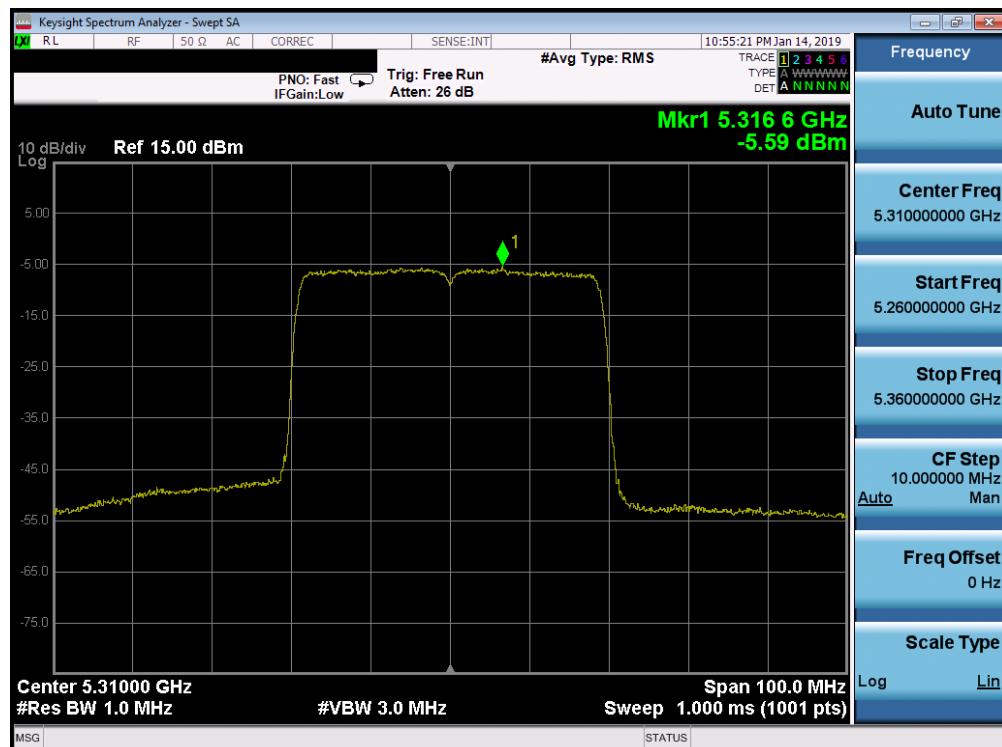


Plot 7-606. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 392 of 514

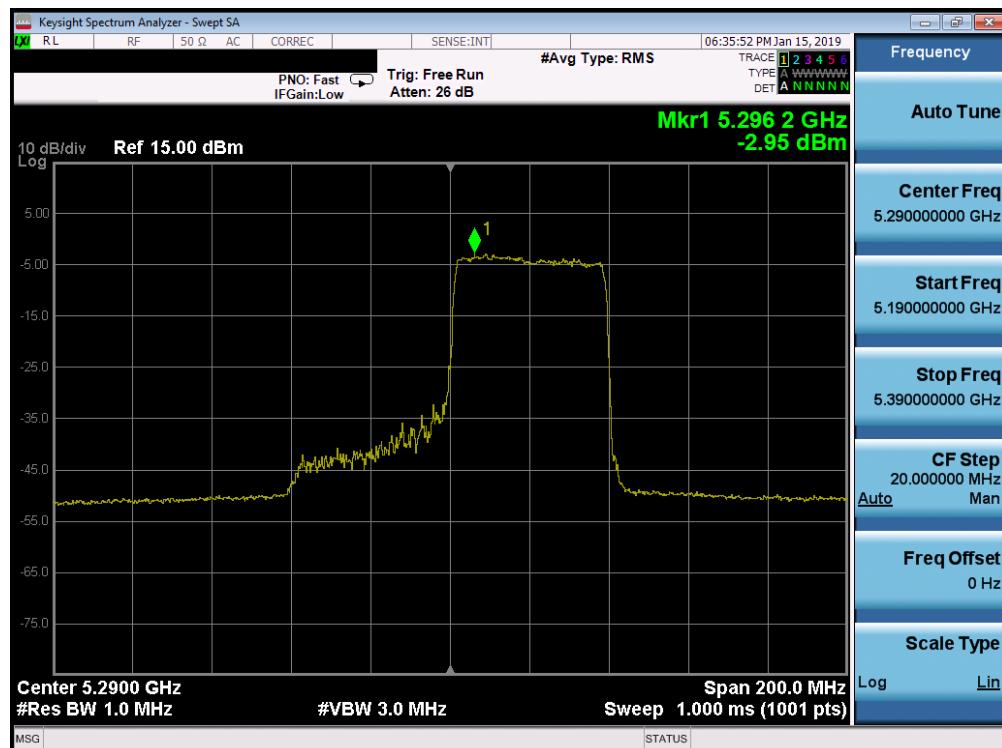


Plot 7-607. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

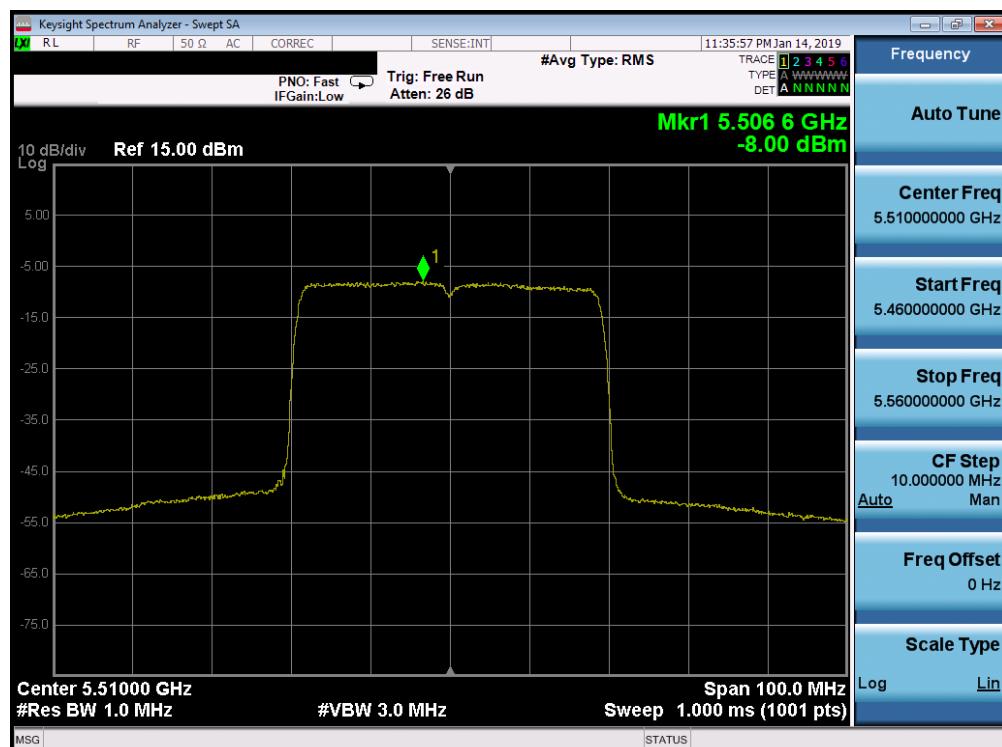


Plot 7-608. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 393 of 514

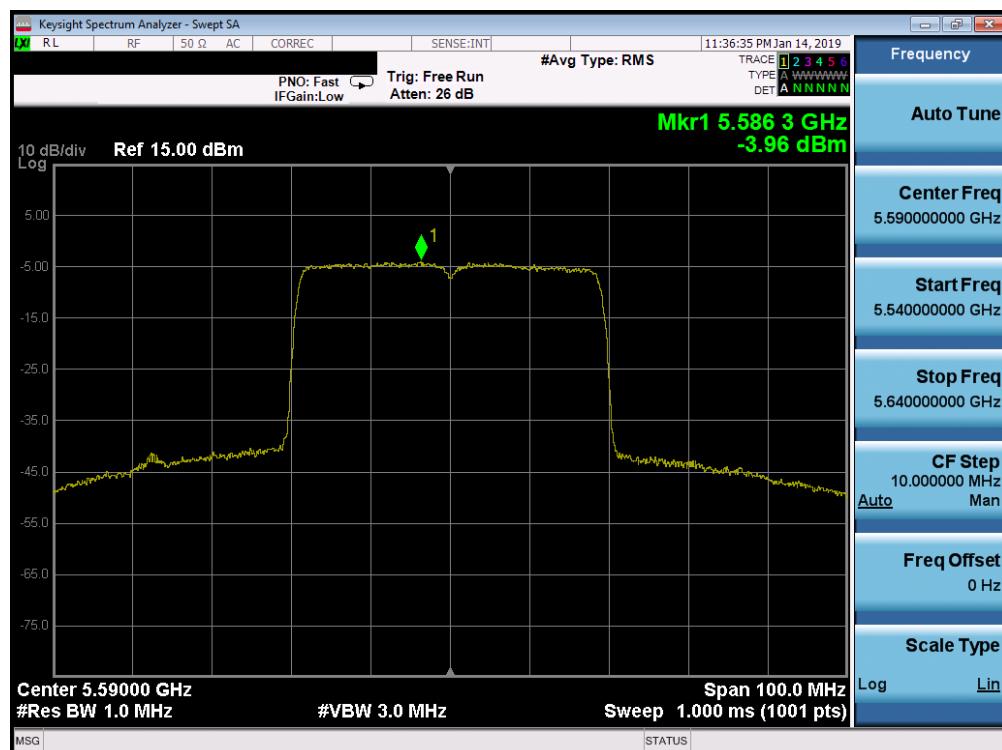


Plot 7-609. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

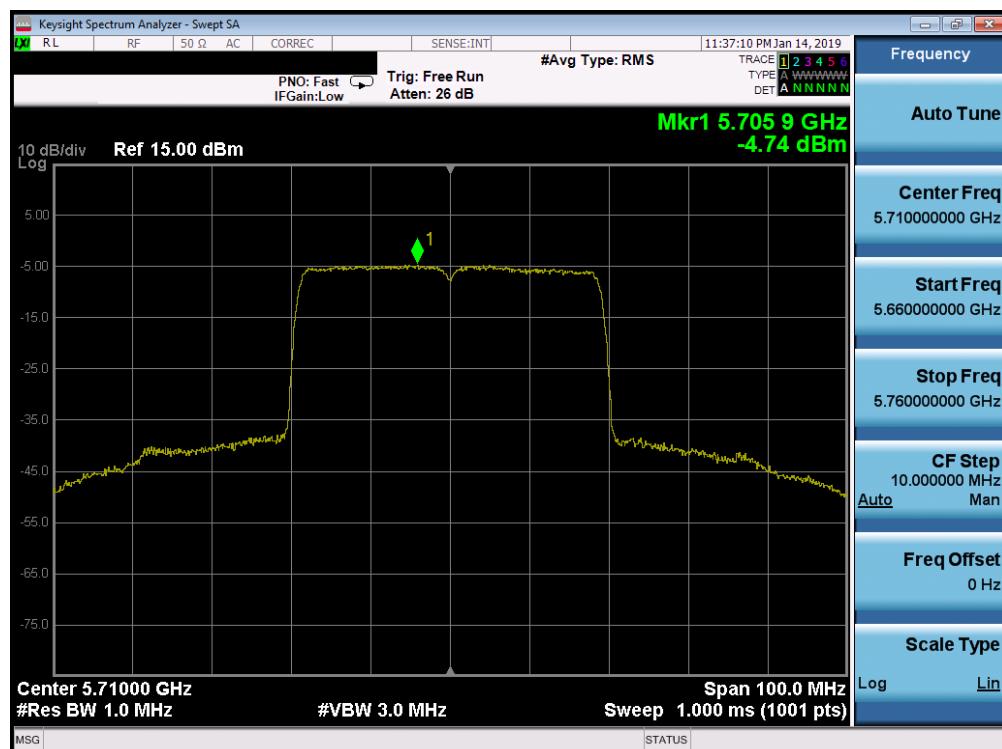


Plot 7-610. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 394 of 514

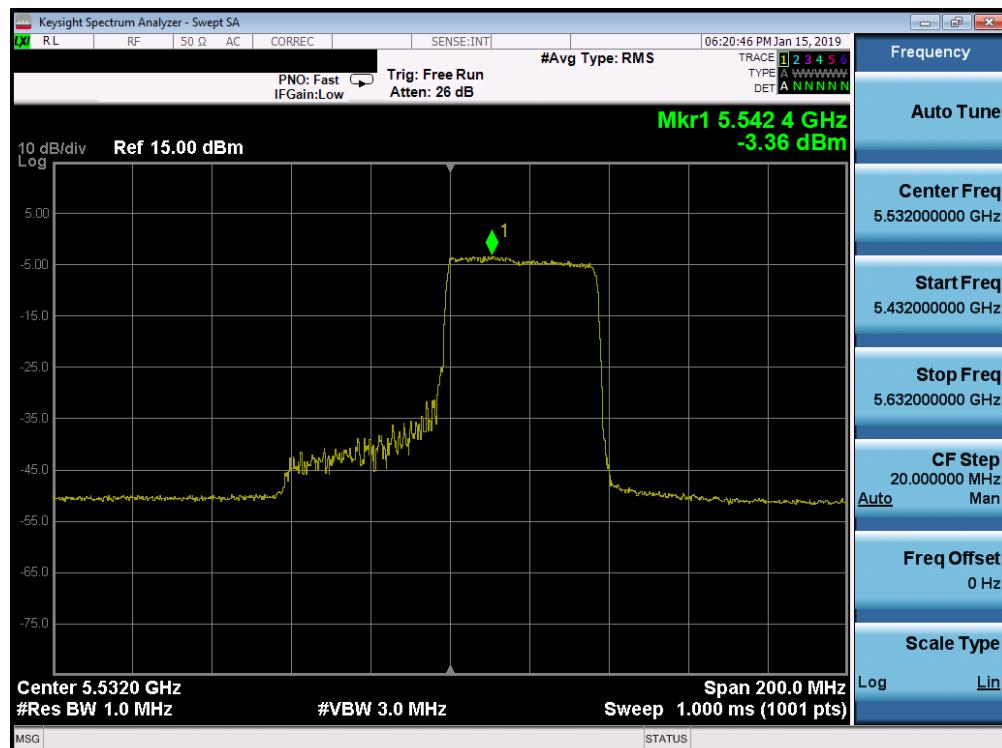


Plot 7-611. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)



Plot 7-612. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 395 of 514

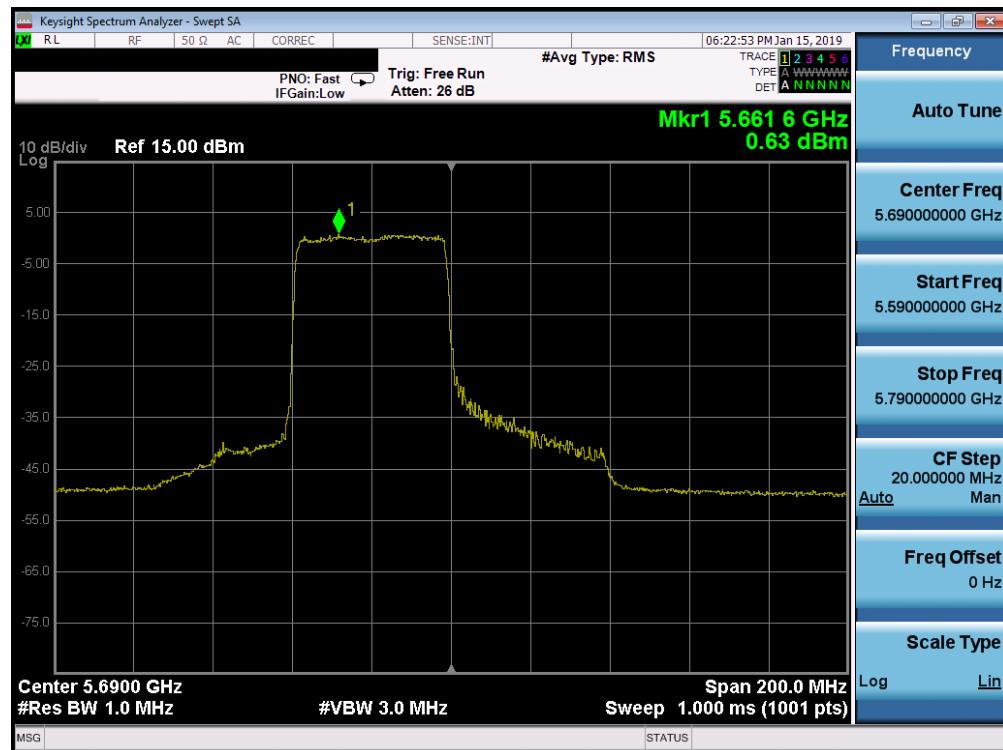


Plot 7-613. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

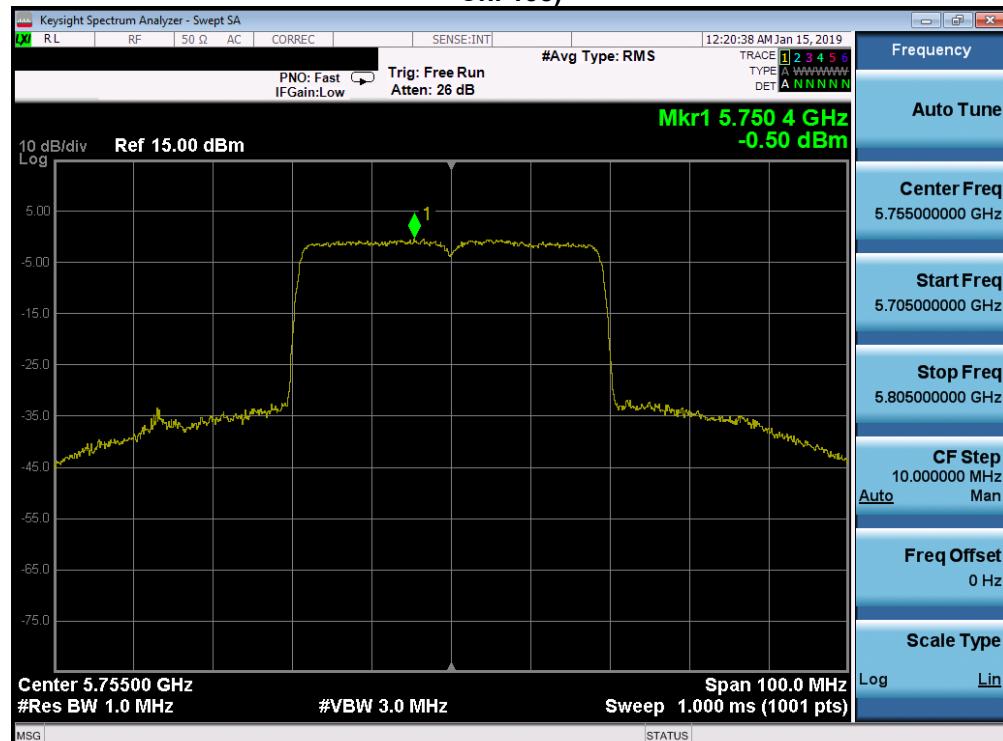


Plot 7-614. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 396 of 514

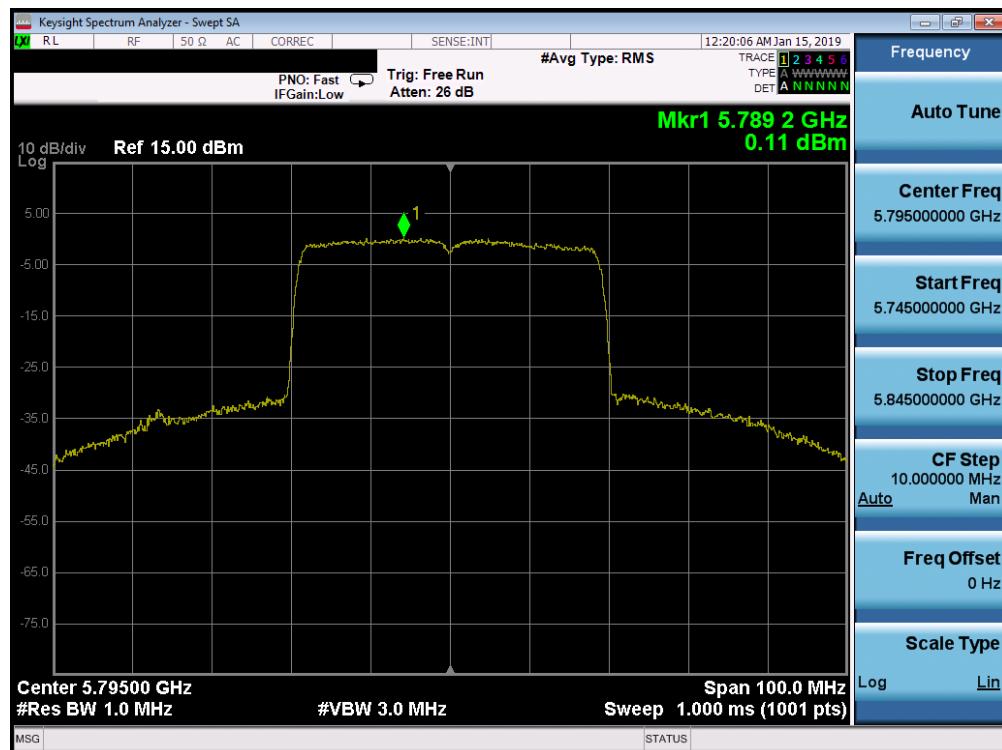


Plot 7-615. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

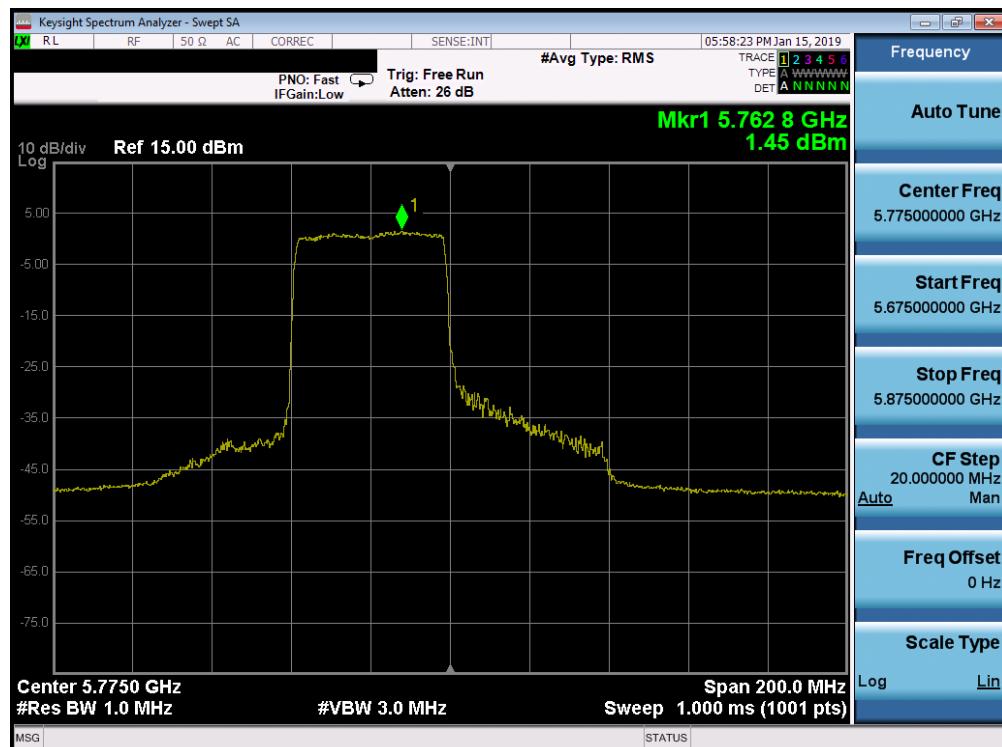


Plot 7-616. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 397 of 514



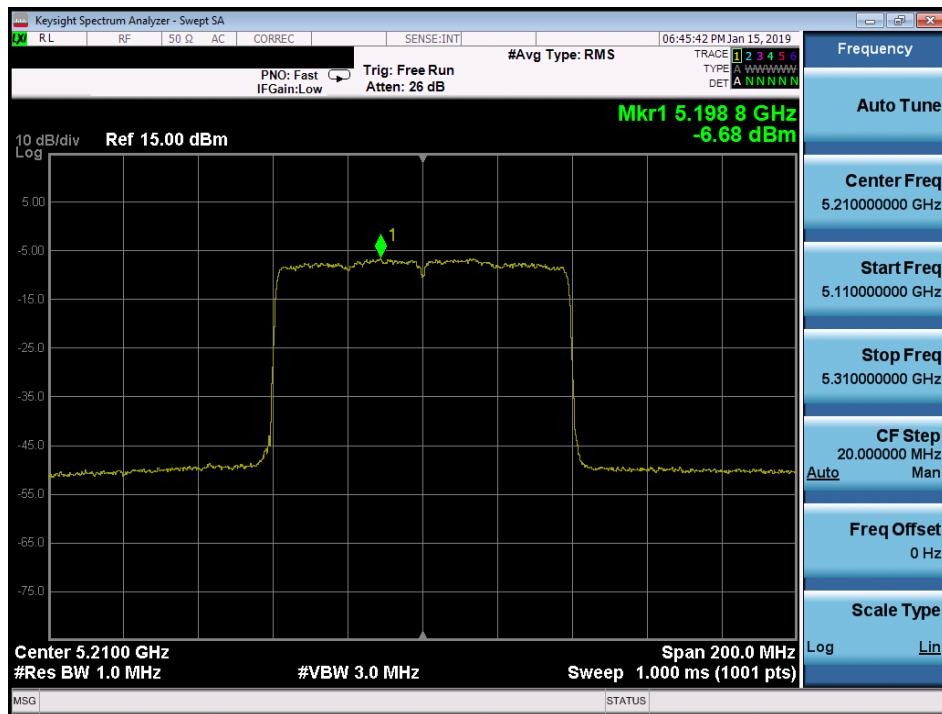
Plot 7-617. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



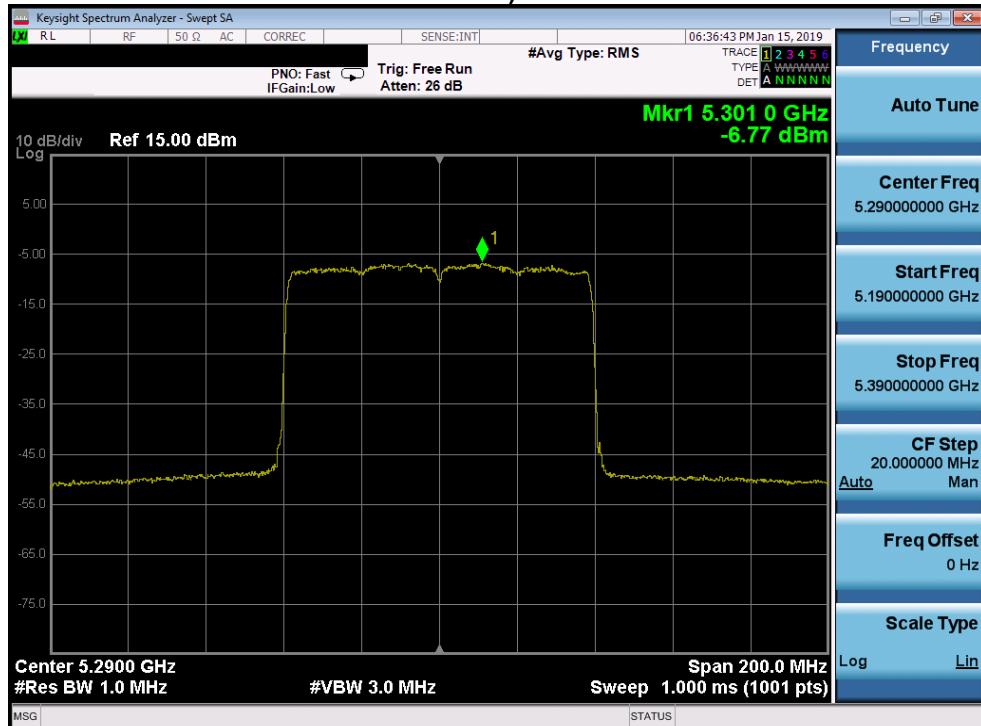
Plot 7-618. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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MIMO Antenna-2 Power Spectral Density Measurements (996 Tones)

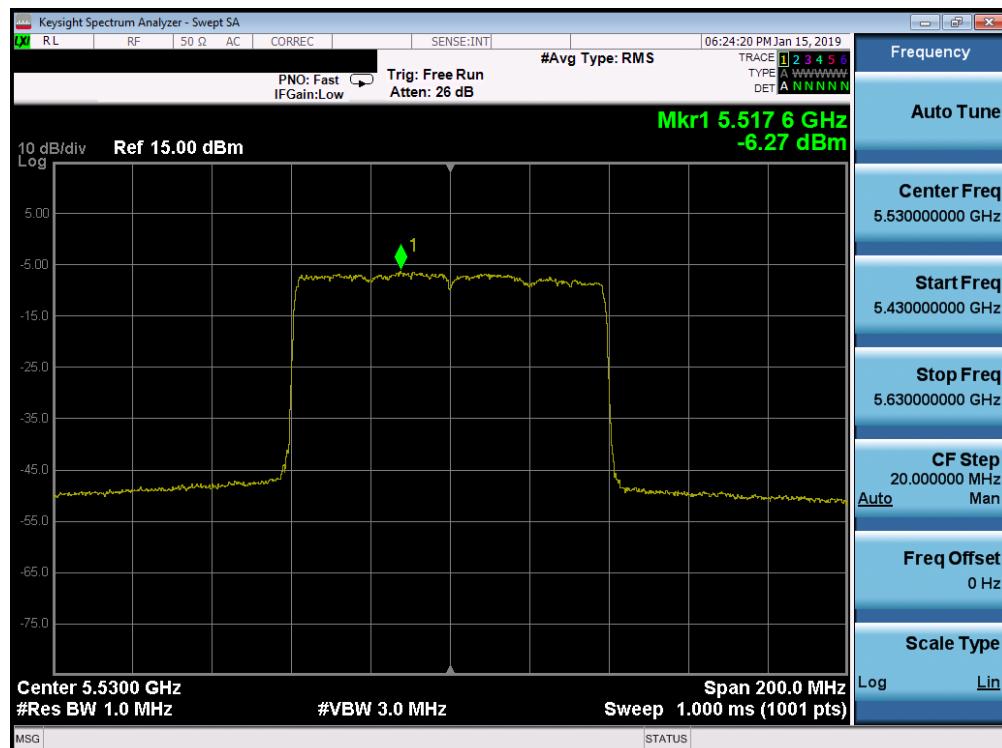


Plot 7-619. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

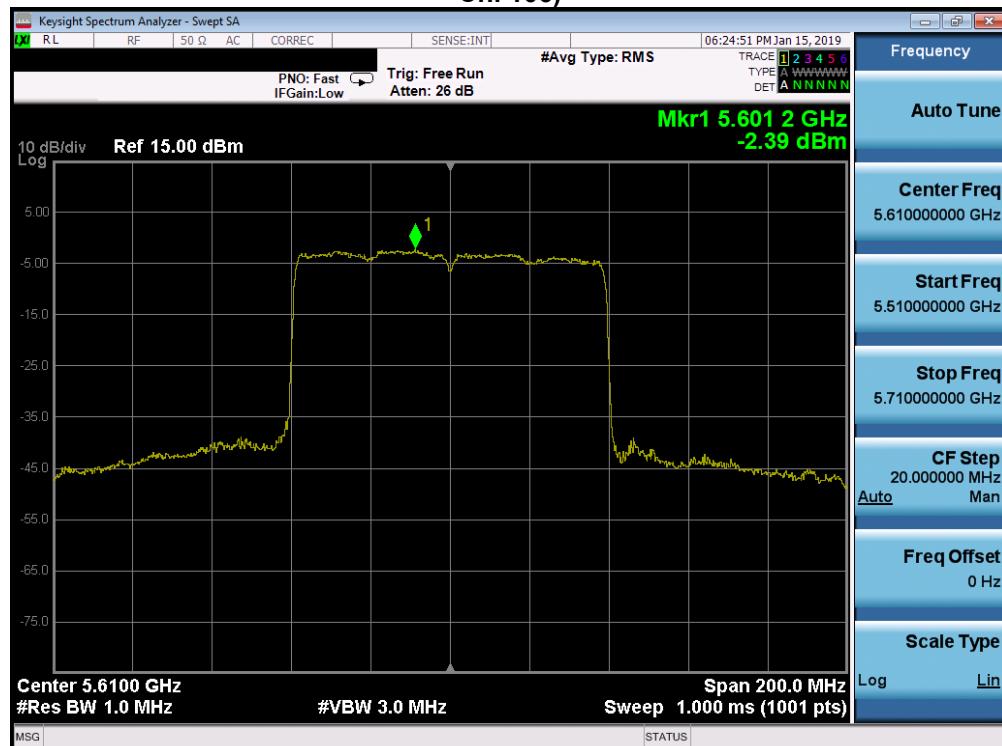


Plot 7-620. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 399 of 514

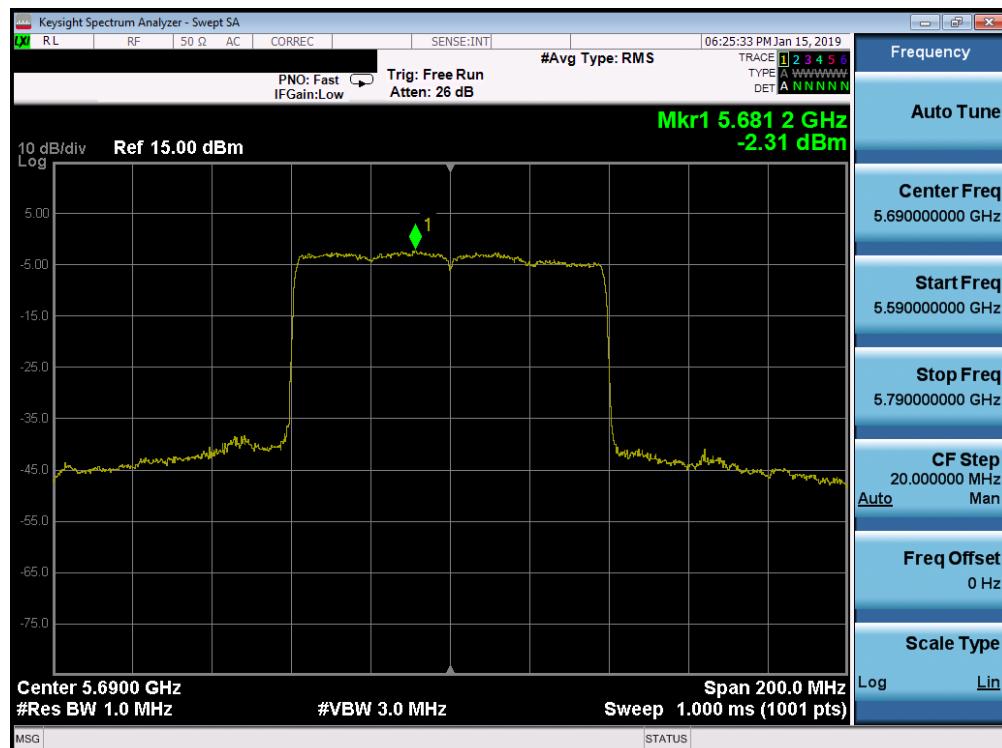


Plot 7-621. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-622. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 400 of 514



Plot 7-623. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)



Plot 7-624. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 401 of 514

7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-30 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-117. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times$ span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

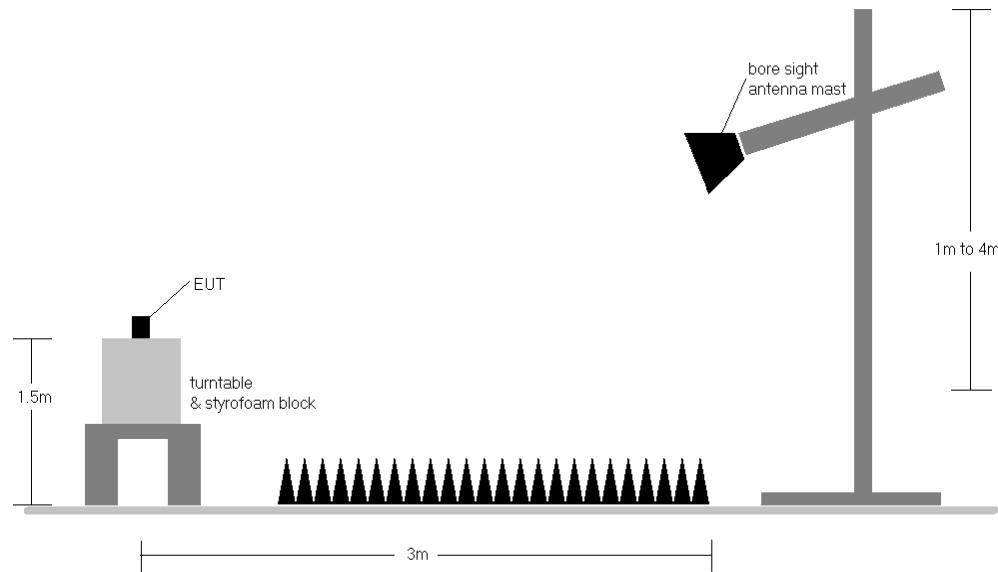


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-117.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-117. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported

Sample Calculations

Determining Spurious Emissions Levels

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

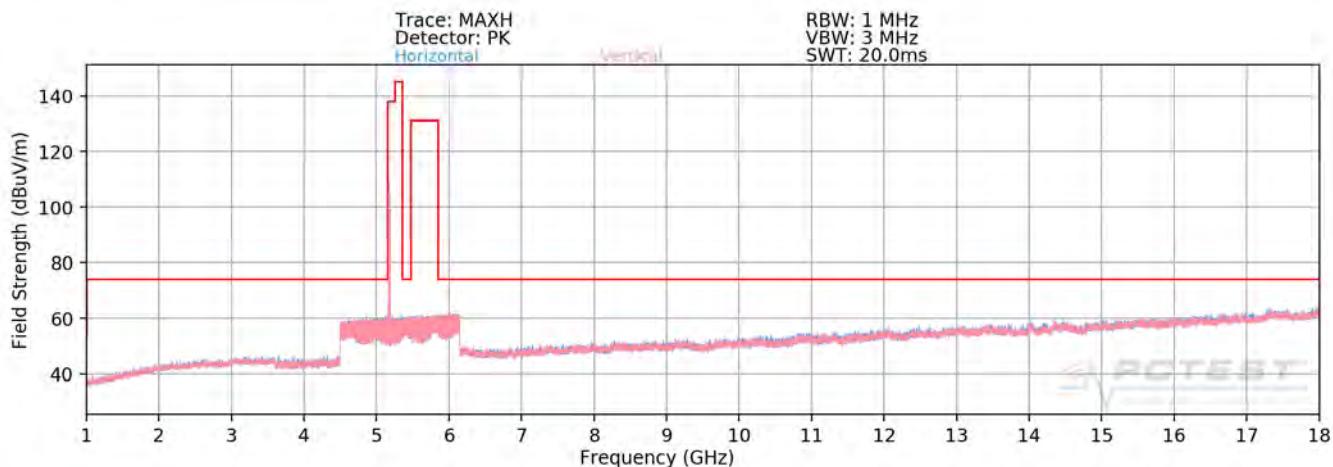
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

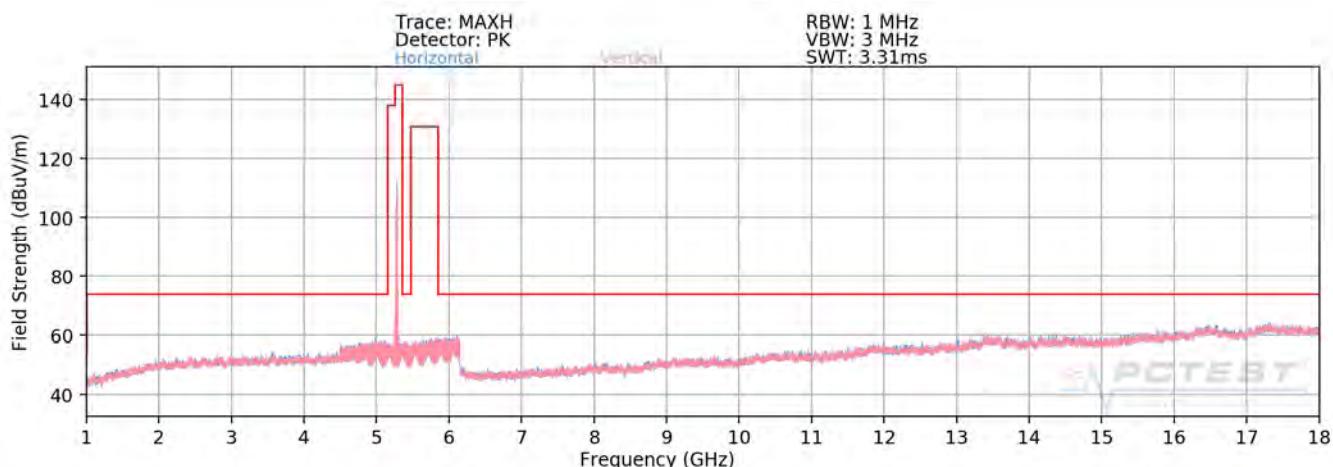
FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

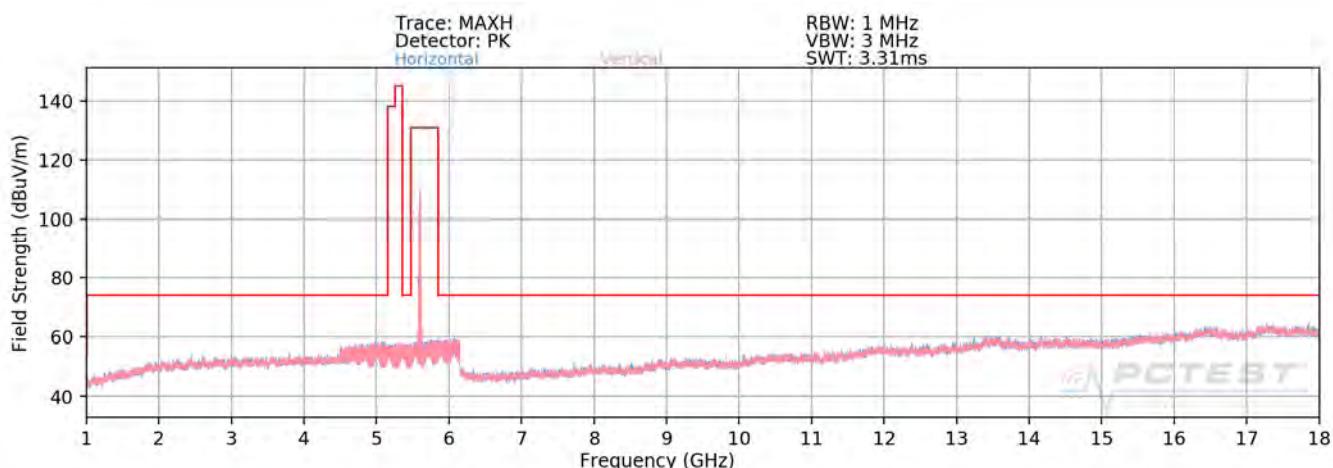
106 Tones



Plot 7-625. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 106 Tones)

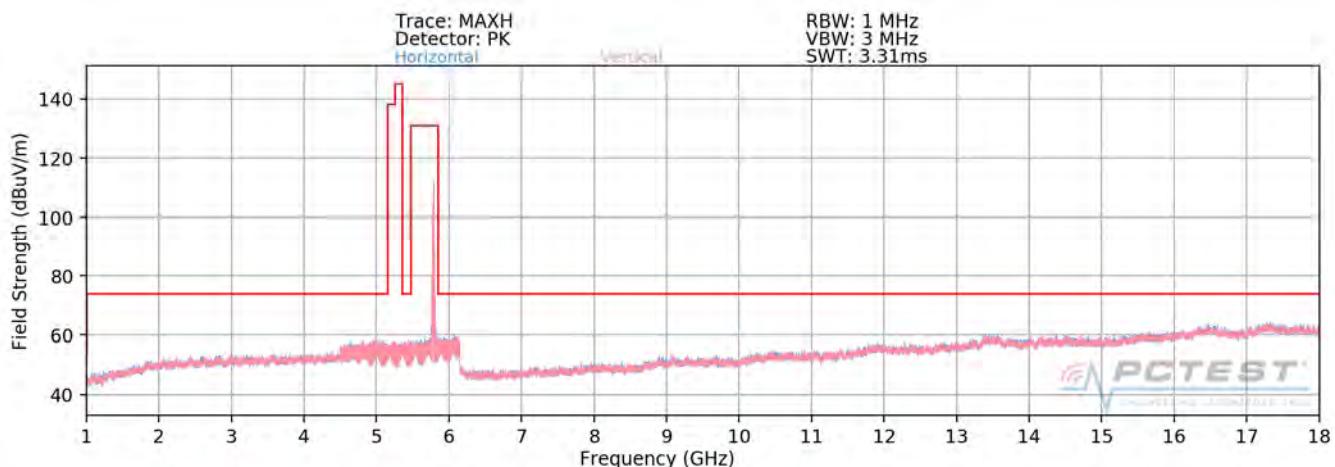


Plot 7-626. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 106 Tones)



FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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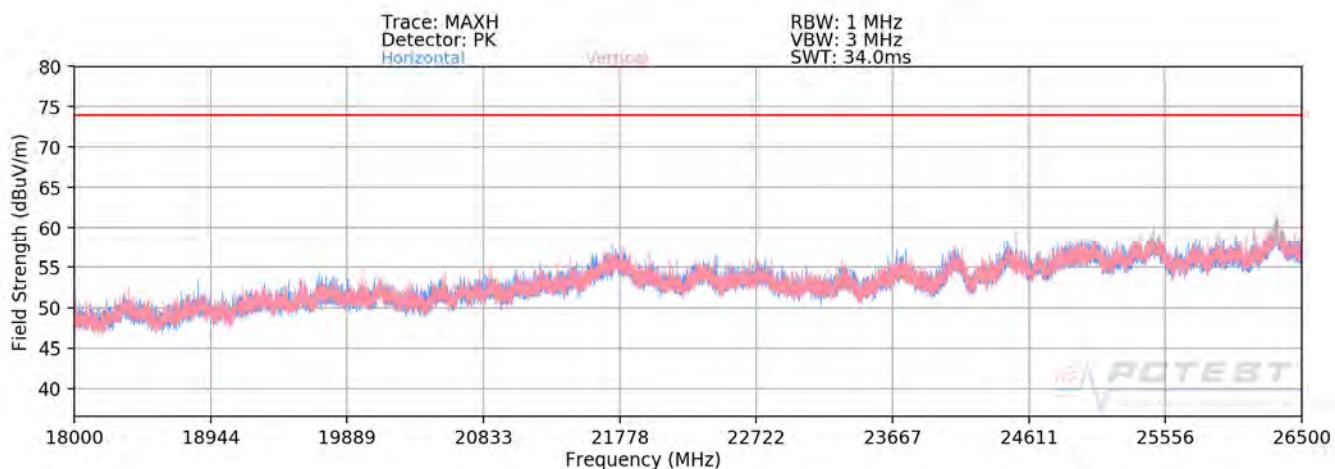
Plot 7-627. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 106 Tones)



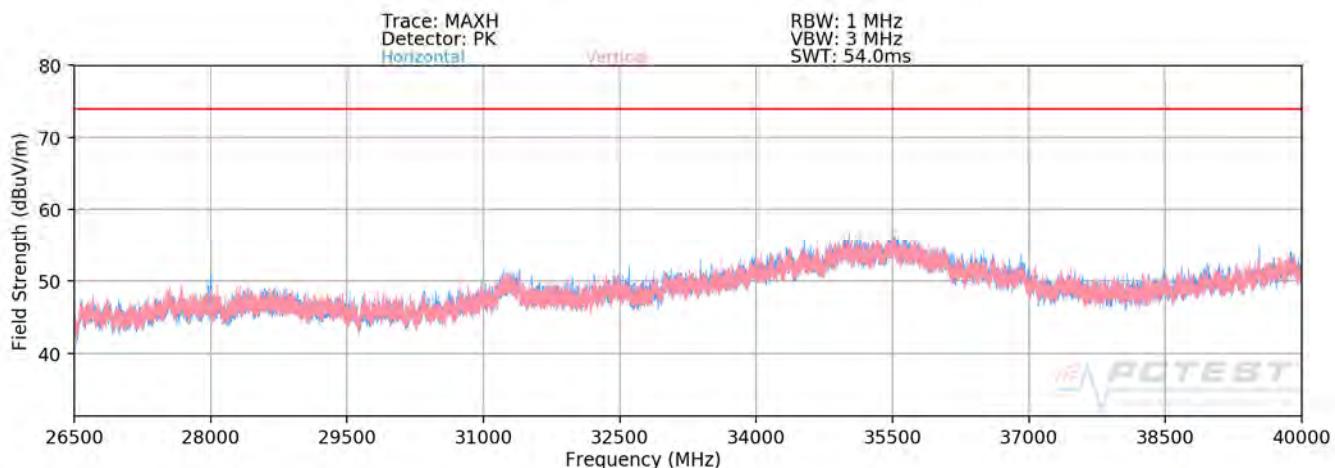
Plot 7-628. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-629. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 106 Tones)



Plot 7-630. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 106 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emission Measurements (106 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	V	-	-	-72.15	18.75	53.60	68.20	-14.60
* 15540.00	Average	V	-	-	-86.25	28.13	48.88	53.98	-5.10
* 15540.00	Peak	V	-	-	-74.80	28.13	60.33	73.98	-13.65
* 20720.00	Average	V	-	-	-77.26	7.38	27.58	53.98	-26.40
* 20720.00	Peak	V	-	-	-67.31	7.38	37.53	73.98	-36.45
25900.00	Peak	V	-	-	-66.14	9.85	41.17	68.20	-27.03

Table 7-118. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5200MHz
Channel:	40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	V	-	-	-72.05	19.45	54.40	68.20	-13.80
* 15600.00	Average	V	-	-	-86.01	27.65	48.64	53.98	-5.34
* 15600.00	Peak	V	-	-	-74.04	27.65	60.61	73.98	-13.37
* 20800.00	Average	V	-	-	-78.50	7.85	26.80	53.98	-27.17
* 20800.00	Peak	V	-	-	-67.82	7.85	37.48	73.98	-36.49
26000.00	Peak	V	-	-	-66.31	10.44	41.58	68.20	-26.62

Table 7-119. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	V	-	-	-72.75	19.76	54.01	68.20	-14.19
* 15720.00	Average	V	-	-	-85.82	27.55	48.73	53.98	-5.25
* 15720.00	Peak	V	-	-	-73.68	27.55	60.87	73.98	-13.11
* 20960.00	Average	V	-	-	-78.33	7.75	26.88	53.98	-27.10
* 20960.00	Peak	V	-	-	-67.76	7.75	37.45	73.98	-36.53
26200.00	Peak	V	-	-	-66.01	10.26	41.71	68.20	-26.49

Table 7-120. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	V	-	-	-72.25	18.75	53.50	68.20	-14.70
* 15540.00	Average	V	-	-	-86.44	28.13	48.69	53.98	-5.29
* 15540.00	Peak	V	-	-	-75.01	28.13	60.12	73.98	-13.86
* 20720.00	Average	V	-	-	-77.53	7.38	27.31	53.98	-26.67
* 20720.00	Peak	V	-	-	-67.51	7.38	37.33	73.98	-36.65
25900.00	Peak	V	-	-	-66.19	9.85	41.12	68.20	-27.08

Table 7-121. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	V	-	-	-72.30	19.25	53.95	68.20	-14.25
* 15780.00	Average	V	-	-	-86.28	27.22	47.94	53.98	-6.04
* 15780.00	Peak	V	-	-	-73.99	27.22	60.23	73.98	-13.75
* 21040.00	Average	V	-	-	-77.99	7.78	27.25	53.98	-26.73
* 21040.00	Peak	V	-	-	-67.35	7.78	37.89	73.98	-36.09
26300.00	Peak	V	-	-	-67.15	10.58	40.89	68.20	-27.31

Table 7-122. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	V	-	-	-72.13	19.37	54.24	68.20	-13.96
* 15840.00	Average	V	-	-	-85.99	27.28	48.29	53.98	-5.69
* 15840.00	Peak	V	-	-	-74.05	27.28	60.23	73.98	-13.75
* 21120.00	Average	V	-	-	-77.22	17.26	37.50	53.98	-16.48
* 21120.00	Peak	V	-	-	-67.88	17.26	46.84	73.98	-27.14
26400.00	Peak	V	-	-	-65.33	19.67	51.80	68.20	-16.40

Table 7-123. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 410 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
*	10640.00	Average	V	-	-	-84.26	20.07	42.81	53.98	-11.17
*	10640.00	Peak	V	-	-	-72.27	20.07	54.80	73.98	-19.18
*	15960.00	Average	V	-	-	-85.95	27.42	48.47	53.98	-5.51
*	15960.00	Peak	V	-	-	-73.15	27.42	61.27	73.98	-12.71
*	21280.00	Average	V	-	-	-77.11	17.51	37.86	53.98	-16.12
*	21280.00	Peak	V	-	-	-67.55	17.51	47.42	73.98	-26.56
	26600.00	Peak	V	-	-	-51.15	1.44	47.75	68.20	-20.45

Table 7-124. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
*	10640.00	Average	V	-	-	-84.55	20.07	42.52	53.98	-11.46
*	10640.00	Peak	V	-	-	-72.97	20.07	54.10	73.98	-19.88
*	15960.00	Average	V	-	-	-86.14	27.42	48.28	53.98	-5.70
*	15960.00	Peak	V	-	-	-73.28	27.42	61.14	73.98	-12.84
*	21280.00	Average	V	-	-	-77.61	17.51	37.36	53.98	-16.62
*	21280.00	Peak	V	-	-	-67.88	17.51	47.09	73.98	-26.89
	26600.00	Peak	V	-	-	-51.35	1.44	47.55	68.20	-20.65

Table 7-125. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 411 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11000.00	Average	V	-	-	-85.30	20.71	42.41	53.98	-11.57
* 11000.00	Peak	V	-	-	-73.09	20.71	54.62	73.98	-19.36
16500.00	Peak	V	-	-	-73.30	28.80	62.50	68.20	-5.70
22000.00	Peak	V	-	-	-66.51	8.71	39.66	68.20	-28.54
27500.00	Peak	V	-	-	-51.99	-9.42	36.05	68.20	-32.15

Table 7-126. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11200.00	Average	V	-	-	-84.91	20.02	42.11	53.98	-11.87
* 11200.00	Peak	V	-	-	-72.23	20.02	54.79	73.98	-19.19
16800.00	Peak	V	-	-	-73.16	28.89	62.73	68.20	-5.47
* 22400.00	Average	V	-	-	-78.14	9.30	28.62	53.98	-25.36
* 22400.00	Peak	V	-	-	-67.21	9.30	39.55	73.98	-34.43
28000.00	Peak	V	-	-	-49.30	-9.24	38.92	68.20	-29.28

Table 7-127. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 412 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11440.00	Average	V	-	-	-85.31	20.76	42.45	53.98	-11.53
* 11440.00	Peak	V	-	-	-72.68	20.76	55.08	73.98	-18.90
17160.00	Peak	V	-	-	-73.26	29.65	63.39	68.20	-4.81
* 22880.00	Average	V	-	-	-78.10	8.86	28.22	53.98	-25.76
* 22880.00	Peak	V	-	-	-67.77	8.86	38.55	73.98	-35.43
28600.00	Peak	V	-	-	-52.48	-9.13	35.85	68.20	-32.35

Table 7-128. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11440.00	Average	V	-	-	-86.11	20.76	41.65	53.98	-12.33
* 11440.00	Peak	V	-	-	-72.99	20.76	54.77	73.98	-19.21
17160.00	Peak	V	-	-	-73.47	29.65	63.18	68.20	-5.02
* 22880.00	Average	V	-	-	-77.18	8.86	29.14	53.98	-24.84
* 22880.00	Peak	V	-	-	-66.55	8.86	39.77	73.98	-34.21
28600.00	Peak	V	-	-	-48.14	-9.13	40.19	68.20	-28.01

Table 7-129. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 413 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11490.00	Average	V	-	-	-85.01	20.29	42.28	53.98	-11.70
* 11490.00	Peak	V	-	-	-72.47	20.29	54.82	73.98	-19.16
17235.00	Peak	V	-	-	-73.89	29.45	62.56	68.20	-5.64
* 22980.00	Average	V	-	-	-77.59	8.38	28.25	53.98	-25.73
* 22980.00	Peak	V	-	-	-67.46	8.38	38.38	73.98	-35.60
28725.00	Peak	V	-	-	-51.99	-8.87	36.60	68.20	-31.60

Table 7-130. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11570.00	Average	V	-	-	-84.81	20.87	43.06	53.98	-10.92
* 11570.00	Peak	V	-	-	-72.24	20.87	55.63	73.98	-18.35
17355.00	Peak	V	-	-	-73.60	29.88	63.28	68.20	-4.92
23140.00	Peak	V	-	-	-68.11	8.78	38.13	68.20	-30.07
28925.00	Peak	V	-	-	-52.43	-8.79	36.24	68.20	-31.96

Table 7-131. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 414 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11650.00	Average	V	-	-	-84.79	21.73	43.94	53.98	-10.04
* 11650.00	Peak	V	-	-	-72.28	21.73	56.45	73.98	-17.53
17475.00	Peak	V	-	-	-74.01	30.16	63.15	68.20	-5.05
23300.00	Peak	V	-	-	-68.01	8.78	38.23	68.20	-29.97
29125.00	Peak	V	-	-	-48.89	-8.79	39.78	68.20	-28.42

Table 7-132. Radiated Measurements SISO ANT1 (106 Tones)

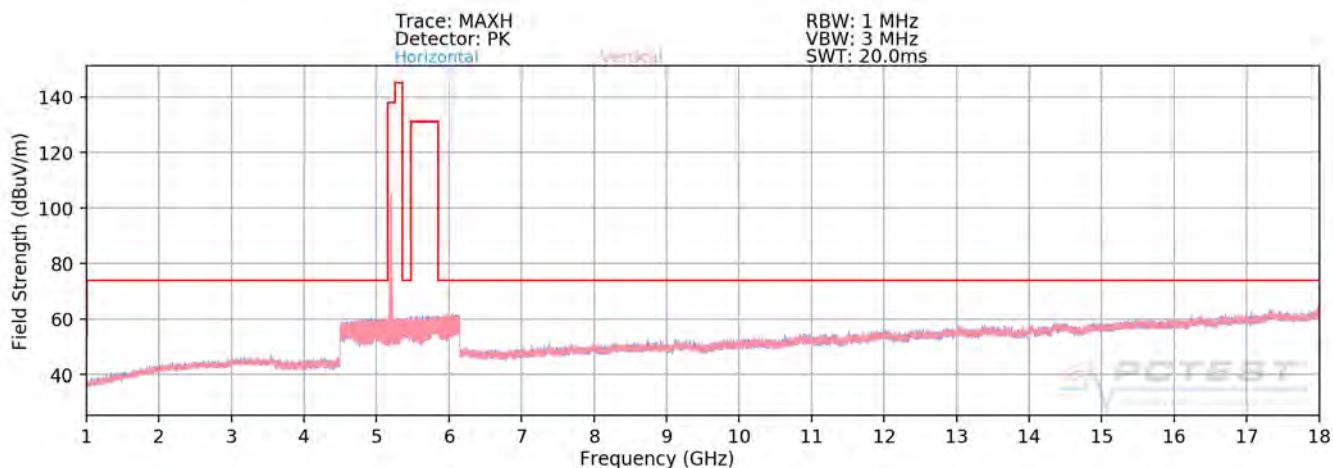
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11570.00	Average	V	-	-	-84.82	20.87	43.05	53.98	-10.93
* 11570.00	Peak	V	-	-	-72.46	20.87	55.41	73.98	-18.57
17355.00	Peak	V	-	-	-73.77	29.88	63.11	68.20	-5.09
23140.00	Peak	V	-	-	-67.71	8.78	38.53	68.20	-29.67
28925.00	Peak	V	-	-	-52.53	-8.79	36.14	68.20	-32.06

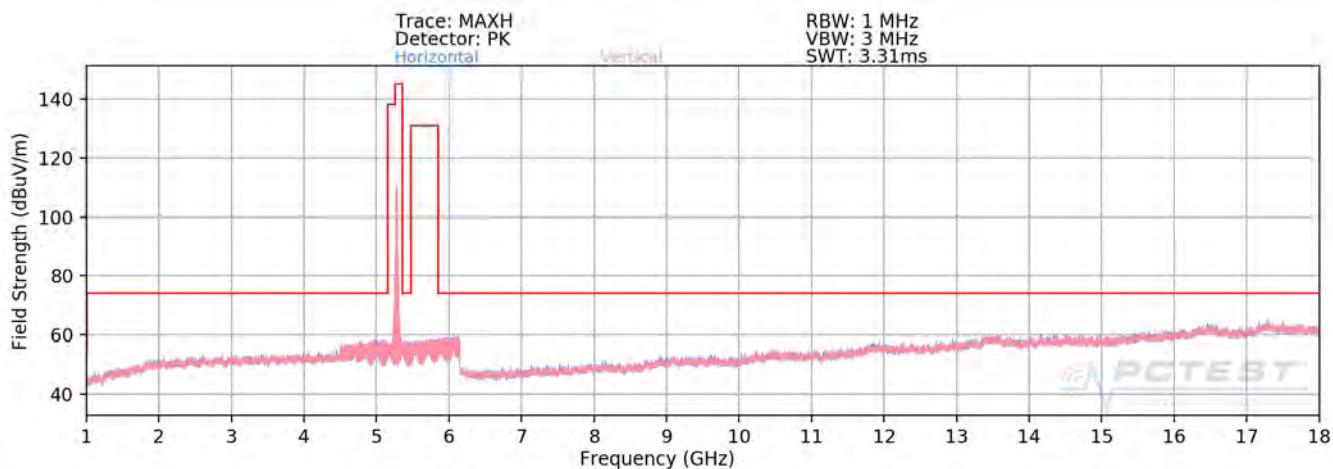
Table 7-133. Radiated Measurements SISO ANT1 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 415 of 514

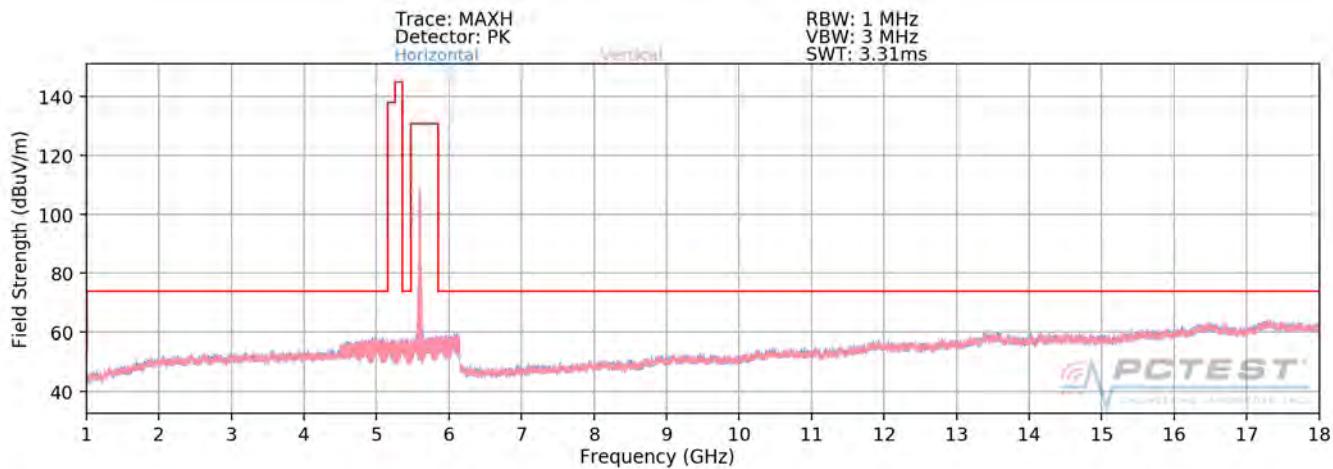
242 Tones



Plot 7-631. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)

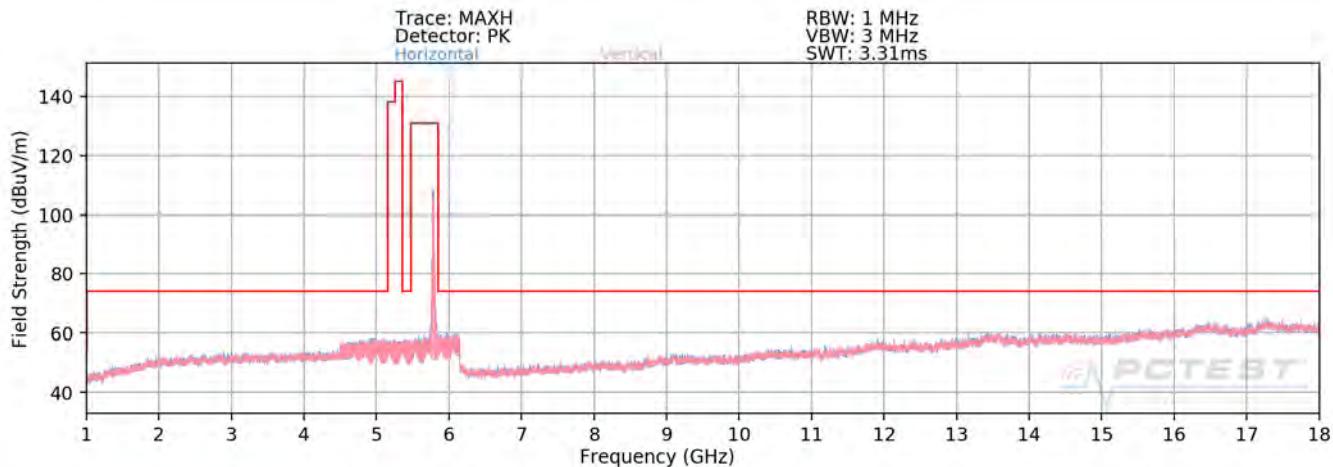


Plot 7-632. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)



Plot 7-633. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)

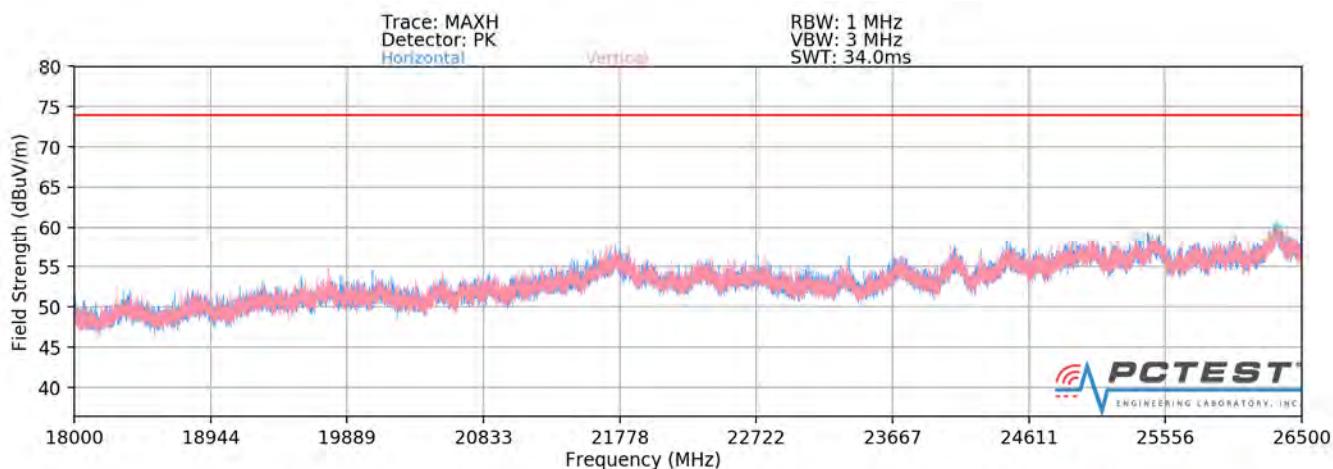
FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 416 of 514	



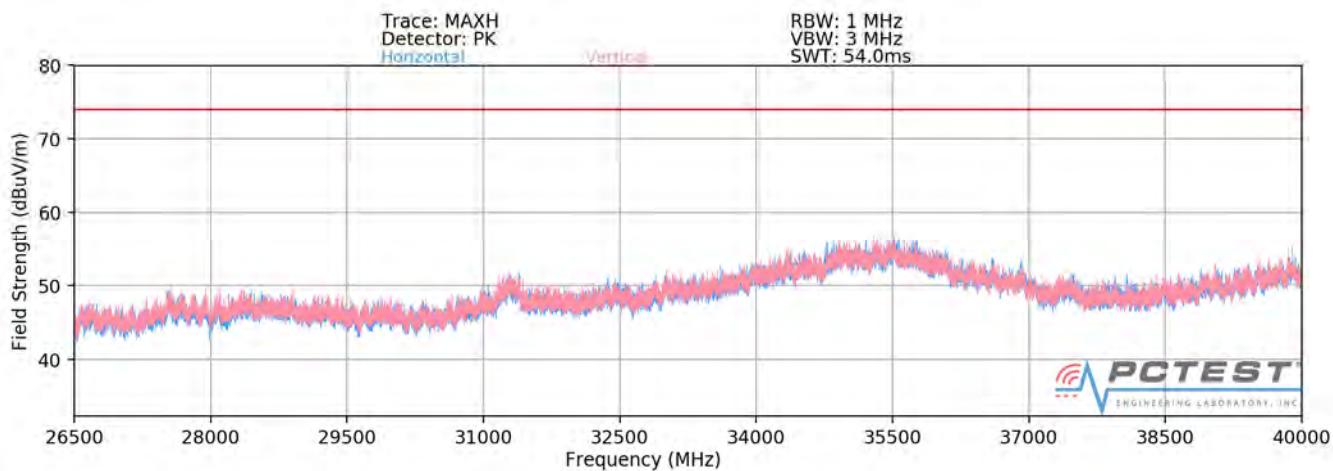
Plot 7-634. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 417 of 514

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



Plot 7-635. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax - 242 Tones)



Plot 7-636. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 242 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 418 of 514

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

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

Worst Case Mode:	<u>802.11ax (20MHz BW)</u>
Worst Case Transfer Rate:	<u>MCS0</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5180MHz</u>
Channel:	<u>36</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	V	-	-	-71.61	18.75	54.14	68.20	-14.06
* 15540.00	Average	V	-	-	-86.10	28.13	49.03	53.98	-4.95
* 15540.00	Peak	V	-	-	-73.64	28.13	61.49	73.98	-12.49
* 20720.00	Average	V	-	-	-78.05	7.38	26.79	53.98	-27.19
* 20720.00	Peak	V	-	-	-68.03	7.38	36.81	73.98	-37.17
25900.00	Peak	V	-	-	-66.61	9.85	40.70	68.20	-27.50

Table 7-134. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	<u>802.11ax (20MHz BW)</u>
Worst Case Transfer Rate:	<u>MCS0</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5200MHz</u>
Channel:	<u>40</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	V	-	-	-72.19	19.45	54.26	68.20	-13.94
* 15600.00	Average	V	-	-	-85.78	27.65	48.87	53.98	-5.11
* 15600.00	Peak	V	-	-	-73.57	27.65	61.08	73.98	-12.90
* 20800.00	Average	V	-	-	-78.46	7.85	26.84	53.98	-27.14
* 20800.00	Peak	V	-	-	-67.78	7.85	37.52	73.98	-36.46
26000.00	Peak	V	-	-	-66.27	10.44	41.62	68.20	-26.58

Table 7-135. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 419 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	V	-	-	-74.83	19.76	51.93	68.20	-16.27
* 15720.00	Average	V	-	-	-85.80	27.55	48.75	53.98	-5.23
* 15720.00	Peak	V	-	-	-75.57	27.55	58.98	73.98	-15.00
* 20960.00	Average	V	-	-	-78.19	7.75	27.01	53.98	-26.97
* 20960.00	Peak	V	-	-	-67.58	7.75	37.63	73.98	-36.35
26200.00	Peak	V	-	-	-65.64	10.26	42.07	68.20	-26.13

Table 7-136. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	V	-	-	-74.54	19.25	51.71	68.20	-16.49
* 15780.00	Average	V	-	-	-84.93	27.22	49.29	53.98	-4.69
* 15780.00	Peak	V	-	-	-75.84	27.22	58.38	73.98	-15.60
* 21040.00	Average	V	-	-	-77.80	7.78	27.44	53.98	-26.54
* 21040.00	Peak	V	-	-	-67.65	7.78	37.58	73.98	-36.40
26300.00	Peak	V	-	-	-67.32	10.58	40.72	68.20	-27.48

Table 7-137. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 420 of 514

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	V	-	-	-74.79	19.37	51.58	68.20	-16.62
* 15840.00	Average	V	-	-	-84.97	27.28	49.31	53.98	-4.67
* 15840.00	Peak	V	-	-	-75.80	27.28	58.48	73.98	-15.50
* 21120.00	Average	V	-	-	-77.19	17.26	37.53	53.98	-16.45
* 21120.00	Peak	V	-	-	-66.95	17.26	47.76	73.98	-26.22
26400.00	Peak	V	-	-	-65.15	19.67	51.98	68.20	-16.22

Table 7-138. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5320MHz
Channel:	64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 10640.00	Average	V	-	-	-83.36	20.07	43.71	53.98	-10.27
* 10640.00	Peak	V	-	-	-75.97	20.07	51.10	73.98	-22.88
* 15960.00	Average	V	-	-	-84.99	27.42	49.43	53.98	-4.55
* 15960.00	Peak	V	-	-	-76.89	27.42	57.53	73.98	-16.45
* 21280.00	Average	V	-	-	-77.47	17.51	37.50	53.98	-16.48
* 21280.00	Peak	V	-	-	-67.42	17.51	47.55	73.98	-26.43
26600.00	Peak	V	-	-	-51.13	1.44	47.77	68.20	-20.43

Table 7-139. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 421 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11000.00	Average	V	-	-	-85.49	20.71	42.22	53.98	-11.76
* 11000.00	Peak	V	-	-	-72.01	20.71	55.70	73.98	-18.28
16500.00	Peak	V	-	-	-73.02	28.80	62.78	68.20	-5.42
22000.00	Peak	V	-	-	-67.26	8.71	38.91	68.20	-29.29
27500.00	Peak	V	-	-	-51.39	-9.42	36.65	68.20	-31.55

Table 7-140. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11200.00	Average	V	-	-	-84.37	20.02	42.65	53.98	-11.33
* 11200.00	Peak	V	-	-	-71.73	20.02	55.29	73.98	-18.69
16800.00	Peak	V	-	-	-72.62	28.89	63.27	68.20	-4.93
* 22400.00	Average	V	-	-	-77.82	9.30	28.93	53.98	-25.04
* 22400.00	Peak	V	-	-	-67.48	9.30	39.28	73.98	-34.70
28000.00	Peak	V	-	-	-49.23	-9.24	38.99	68.20	-29.21

Table 7-141. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 422 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11440.00	Average	V	-	-	-85.27	20.76	42.49	53.98	-11.49
* 11440.00	Peak	V	-	-	-73.35	20.76	54.41	73.98	-19.57
17160.00	Peak	V	-	-	-73.89	29.65	62.76	68.20	-5.44
* 22880.00	Average	V	-	-	-79.00	8.86	27.31	53.98	-26.66
* 22880.00	Peak	V	-	-	-68.32	8.86	37.99	73.98	-35.99
28600.00	Peak	V	-	-	-52.96	-9.13	35.37	68.20	-32.83

Table 7-142. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11490.00	Average	V	-	-	-83.92	20.29	43.37	53.98	-10.61
* 11490.00	Peak	V	-	-	-75.81	20.29	51.48	73.98	-22.50
17235.00	Peak	V	-	-	-76.23	29.45	60.22	68.20	-7.98
* 22980.00	Average	V	-	-	-77.87	8.38	27.97	53.98	-26.01
* 22980.00	Peak	V	-	-	-67.78	8.38	38.06	73.98	-35.92
28725.00	Peak	V	-	-	-52.39	-8.87	36.20	68.20	-32.00

Table 7-143. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 423 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11570.00	Average	V	-	-	-83.76	20.87	44.11	53.98	-9.87
* 11570.00	Peak	V	-	-	-75.23	20.87	52.64	73.98	-21.34
17355.00	Peak	V	-	-	-76.65	29.88	60.23	68.20	-7.97
23140.00	Peak	V	-	-	-67.39	8.78	38.85	68.20	-29.35
28925.00	Peak	V	-	-	-52.73	-8.79	35.94	68.20	-32.26

Table 7-144. Radiated Measurements SISO ANT1 (242 Tones)

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

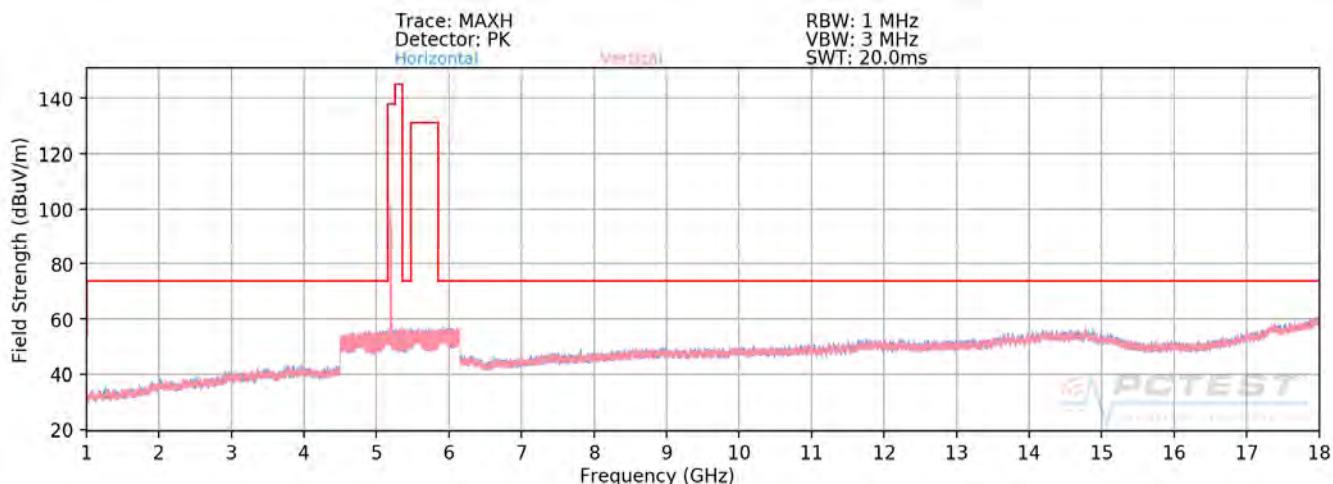
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11650.00	Average	V	-	-	-83.57	21.73	45.16	53.98	-8.82
* 11650.00	Peak	V	-	-	-75.02	21.73	53.71	73.98	-20.27
17475.00	Peak	V	-	-	-75.61	30.16	61.55	68.20	-6.65
23300.00	Peak	V	-	-	-66.35	9.23	40.33	68.20	-27.87
29125.00	Peak	V	-	-	-48.44	-9.66	39.36	68.20	-28.84

Table 7-145. Radiated Measurements SISO ANT1 (242 Tones)

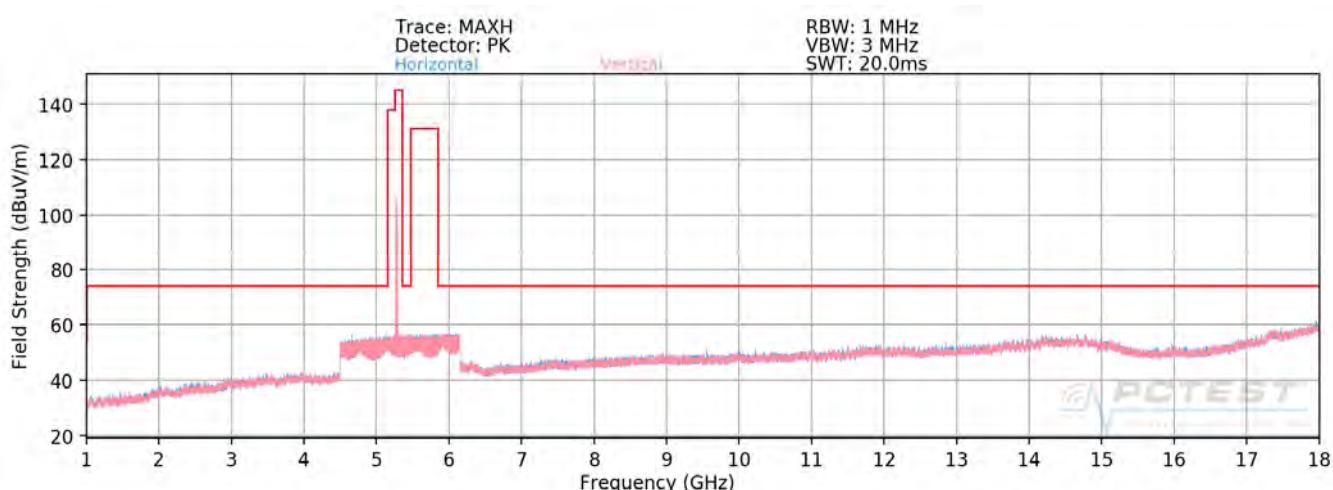
FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 424 of 514

7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

106 Tones

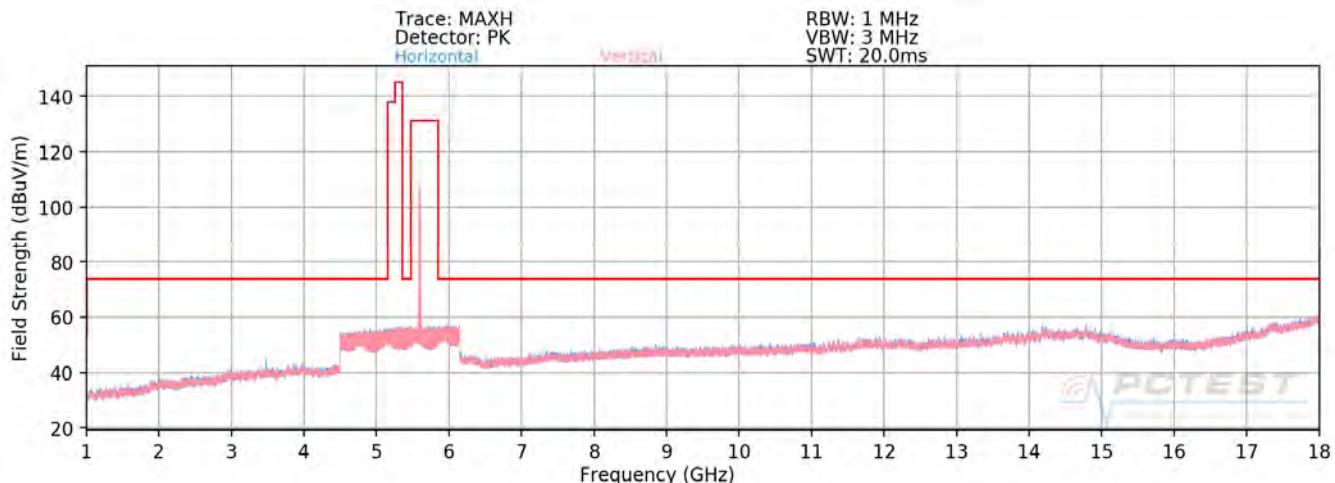


Plot 7-637. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 106 Tones)

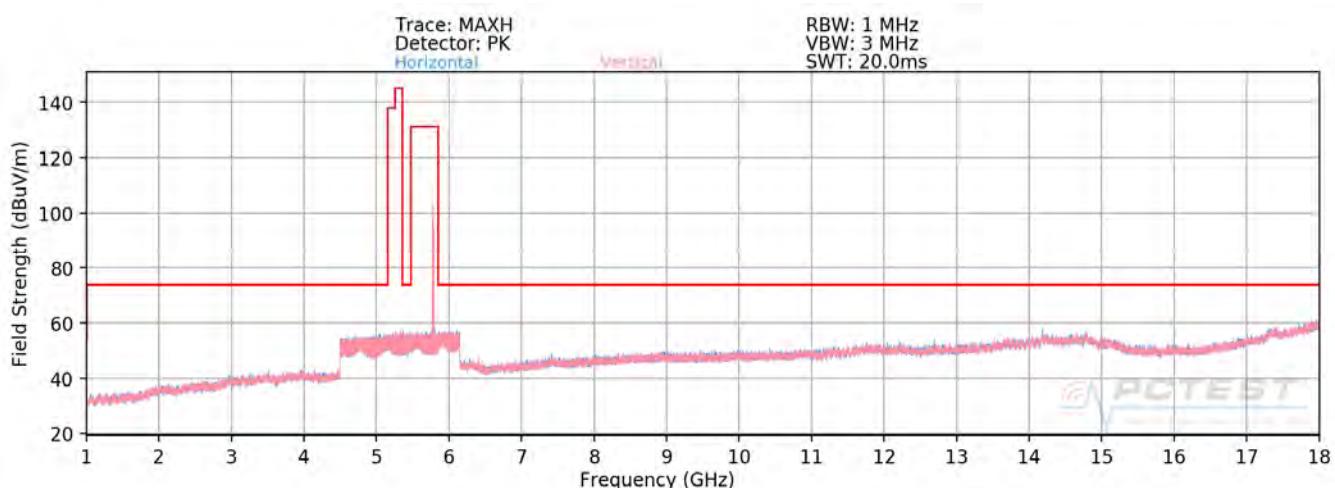


Plot 7-638. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 106 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 425 of 514



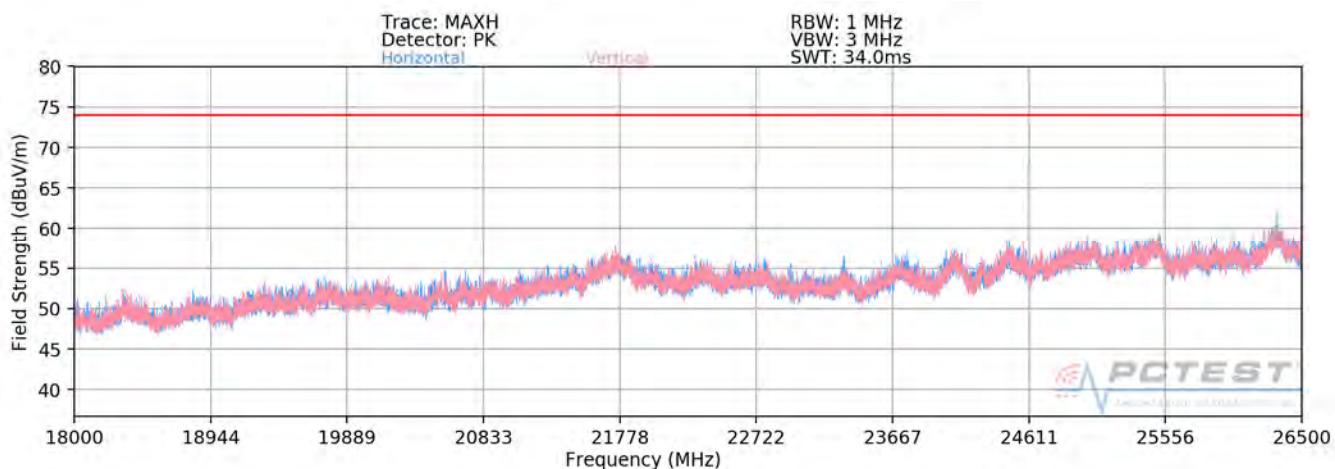
Plot 7-639. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 106 Tones)



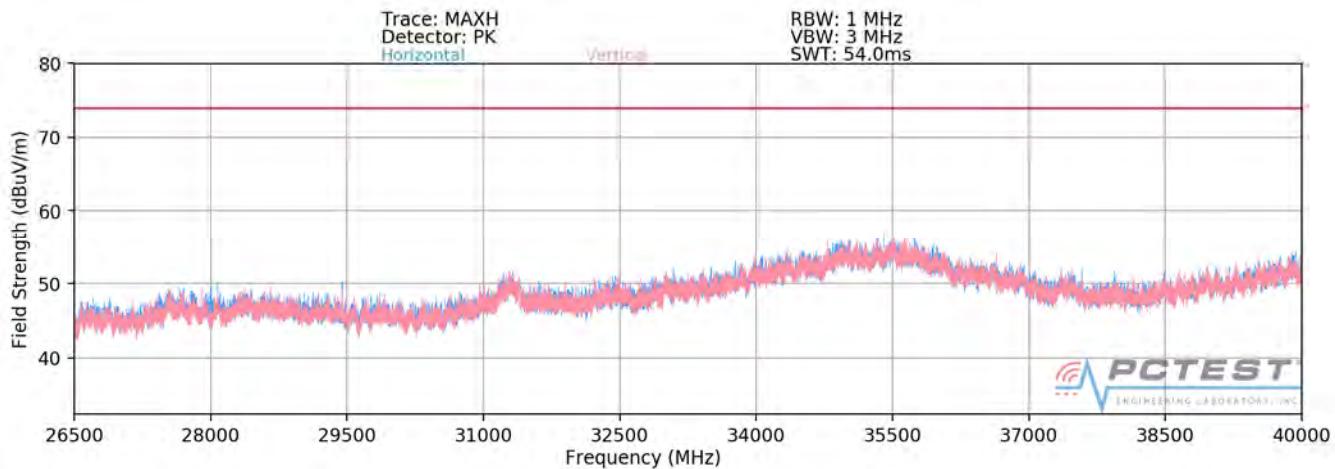
Plot 7-640. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 106 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 426 of 514

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



Plot 7-641. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 106 Tones)



Plot 7-642. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 106 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 427 of 514

SISO Antenna-2 Radiated Spurious Emission Measurements (106 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	H	120	287	-69.91	12.74	49.83	68.20	-18.37
* 15540.00	Average	H	-	-	-81.81	15.28	40.47	53.98	-13.51
* 15540.00	Peak	H	-	-	-70.58	15.28	51.70	73.98	-22.28
* 20720.00	Average	H	-	-	-78.00	7.38	26.84	53.98	-27.14
* 20720.00	Peak	H	-	-	-67.99	7.38	36.85	73.98	-37.13
25900.00	Peak	H	-	-	-66.50	9.85	40.81	68.20	-27.39

Table 7-146. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5200MHz
Channel:	40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	H	331	307	-69.41	12.24	49.83	68.20	-18.37
* 15600.00	Average	H	-	-	-82.42	15.40	39.98	53.98	-13.99
* 15600.00	Peak	H	-	-	-70.71	15.40	51.69	73.98	-22.28
* 20800.00	Average	H	-	-	-78.11	7.85	27.19	53.98	-26.78
* 20800.00	Peak	H	-	-	-67.35	7.85	37.95	73.98	-36.02
26000.00	Peak	H	-	-	-66.78	10.44	41.11	68.20	-27.09

Table 7-147. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 428 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-68.83	12.41	50.58	68.20	-17.62
* 15720.00	Average	H	-	-	-82.19	16.70	41.51	53.98	-12.47
* 15720.00	Peak	H	-	-	-70.29	16.70	53.41	73.98	-20.57
* 20960.00	Average	H	-	-	-78.25	7.75	26.96	53.98	-27.02
* 20960.00	Peak	H	-	-	-67.42	7.75	37.79	73.98	-36.19
26200.00	Peak	H	-	-	-65.55	10.26	42.17	68.20	-26.03

Table 7-148. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-68.83	12.41	50.58	68.20	-17.62
* 15720.00	Average	H	-	-	-82.19	16.70	41.51	53.98	-12.47
* 15720.00	Peak	H	-	-	-70.29	16.70	53.41	73.98	-20.57
* 20960.00	Average	H	-	-	-78.44	7.75	26.77	53.98	-27.21
* 20960.00	Peak	H	-	-	-67.66	7.75	37.55	73.98	-36.43
26200.00	Peak	H	-	-	-65.92	10.26	41.80	68.20	-26.40

Table 7-149. Radiated Measurements SISO ANT2 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 429 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.64	13.16	50.52	68.20	-17.68
* 15780.00	Average	H	-	-	-82.11	16.21	41.10	53.98	-12.88
* 15780.00	Peak	H	-	-	-71.07	16.21	52.14	73.98	-21.84
* 21040.00	Average	H	-	-	-78.46	7.78	26.78	53.98	-27.20
* 21040.00	Peak	H	-	-	-68.14	7.78	37.10	73.98	-36.88
26300.00	Peak	H	-	-	-66.58	10.58	41.46	68.20	-26.74

Table 7-150. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.83	13.66	49.83	68.20	-18.37
* 15840.00	Average	H	-	-	-82.36	15.64	40.28	53.98	-13.70
* 15840.00	Peak	H	-	-	-70.20	15.64	52.44	73.98	-21.54
* 21120.00	Average	H	-	-	-77.87	17.26	36.85	53.98	-17.13
* 21120.00	Peak	H	-	-	-66.85	17.26	47.87	73.98	-26.11
26400.00	Peak	H	-	-	-65.11	19.67	52.02	68.20	-16.18

Table 7-151. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 430 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
*	10640.00	Average	H	-	-	-81.23	14.15	39.92	53.98	-14.06
*	10640.00	Peak	H	-	-	-69.49	14.15	51.66	73.98	-22.32
*	15960.00	Average	H	-	-	-82.10	15.01	39.91	53.98	-14.07
*	15960.00	Peak	H	-	-	-70.28	15.01	51.73	73.98	-22.25
*	21280.00	Average	H	-	-	-78.05	17.51	36.92	53.98	-17.06
*	21280.00	Peak	H	-	-	-67.44	17.51	47.53	73.98	-26.45
	26600.00	Peak	H	-	-	-50.99	1.44	47.91	68.20	-20.29

Table 7-152. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
10520.00	Peak	H	-	-	-69.55	13.16	50.61	68.20	-17.59	
*	15780.00	Average	H	-	-	-82.01	16.21	41.20	53.98	-12.78
*	15780.00	Peak	H	-	-	-70.89	16.21	52.32	73.98	-21.66
*	21040.00	Average	H	-	-	-78.40	7.78	26.84	53.98	-27.14
*	21040.00	Peak	H	-	-	-67.77	7.78	37.47	73.98	-36.51
	26300.00	Peak	H	-	-	-65.14	10.58	42.90	68.20	-25.30

Table 7-153. Radiated Measurements SISO ANT2 (106 Tones)with WCP

FCC ID: A3LSC03L	PCTEST Engineering Laboratory, Inc.				MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 431 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11000.00	Average	H	-	-	-80.98	17.61	43.63	53.98	-10.35
* 11000.00	Peak	H	-	-	-69.79	17.61	54.82	73.98	-19.16
16500.00	Peak	H	-	-	-71.01	25.31	61.30	68.20	-6.90
22000.00	Peak	H	-	-	-68.51	8.71	37.66	68.20	-30.54
27500.00	Peak	H	-	-	-52.01	-9.42	36.03	68.20	-32.17

Table 7-154. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11200.00	Average	H	-	-	-80.99	16.98	42.99	53.98	-10.99
* 11200.00	Peak	H	-	-	-70.01	16.98	53.97	73.98	-20.01
16800.00	Peak	H	-	-	-69.55	24.87	62.32	68.20	-5.88
* 22400.00	Average	H	-	-	-78.33	9.30	28.43	53.98	-25.55
* 22400.00	Peak	H	-	-	-66.99	9.30	39.77	73.98	-34.21
28000.00	Peak	H	-	-	-49.52	-9.24	38.70	68.20	-29.50

Table 7-155. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 432 of 514

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5720MHz
Channel:	144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11440.00	Average	H	-	-	-81.83	18.07	43.24	53.98	-10.74
* 11440.00	Peak	H	-	-	-70.21	18.07	54.86	73.98	-19.12
17160.00	Peak	H	-	-	-70.12	24.98	61.86	68.20	-6.34
* 22880.00	Average	H	-	-	-78.16	8.86	28.16	53.98	-25.82
* 22880.00	Peak	H	-	-	-67.44	8.86	38.88	73.98	-35.10
28600.00	Peak	H	-	-	-52.35	-9.13	35.97	68.20	-32.23

Table 7-156. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5600MHz
Channel:	120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11200.00	Average	H	-	-	-81.23	16.98	42.75	53.98	-11.23
* 11200.00	Peak	H	-	-	-70.55	16.98	53.43	73.98	-20.55
16800.00	Peak	H	-	-	-69.37	24.87	62.50	68.20	-5.70
* 22400.00	Average	H	-	-	-77.78	9.30	28.98	53.98	-25.00
* 22400.00	Peak	H	-	-	-67.56	9.30	39.20	73.98	-34.78
28000.00	Peak	H	-	-	-49.44	-9.24	38.78	68.20	-29.42

Table 7-157. Radiated Measurements SISO ANT2 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 433 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11490.00	Average	H	292	289	-79.79	15.22	42.43	53.98	-11.55
* 11490.00	Peak	H	292	289	-66.78	15.22	55.44	73.98	-18.54
17235.00	Peak	H	-	-	-69.45	19.54	57.09	68.20	-11.11
* 22980.00	Average	H	-	-	-77.82	8.38	28.02	53.98	-25.96
* 22980.00	Peak	H	-	-	-66.84	8.38	39.00	73.98	-34.98
28725.00	Peak	H	-	-	-52.10	-8.87	36.49	68.20	-31.71

Table 7-158. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11570.00	Average	H	292	301	-79.92	15.02	42.10	53.98	-11.88
* 11570.00	Peak	H	292	301	-67.46	15.02	54.56	73.98	-19.42
17355.00	Peak	H	-	-	-69.85	23.41	60.56	68.20	-7.64
23140.00	Peak	H	-	-	-66.94	8.78	39.30	68.20	-28.90
28925.00	Peak	H	-	-	-51.43	-8.79	37.24	68.20	-30.96

Table 7-159. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 434 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11650.00	Average	H	397	16	-79.42	14.92	42.50	53.98	-11.48
* 11650.00	Peak	H	397	16	-69.91	14.92	52.01	73.98	-21.97
17475.00	Peak	H	-	-	-70.11	21.86	58.75	68.20	-9.45
23300.00	Peak	H	-	-	-65.87	9.23	40.82	68.20	-27.38
29125.00	Peak	H	-	-	-49.13	-9.66	38.67	68.20	-29.53

Table 7-160. Radiated Measurements SISO ANT2 (106 Tones)

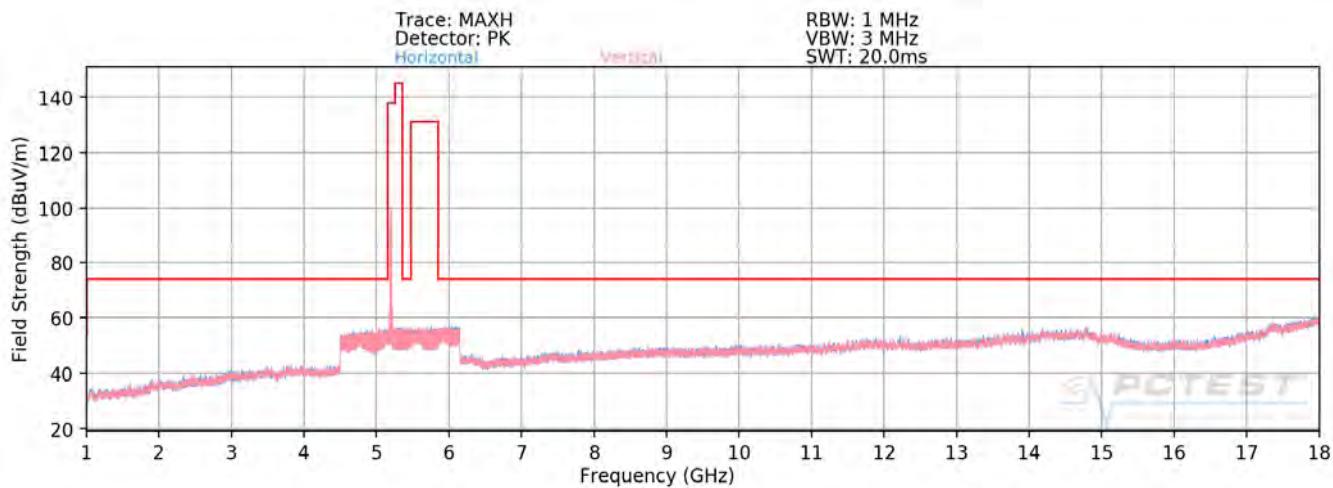
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11650.00	Average	H	167	41	-79.42	14.92	42.50	53.98	-11.48
* 11650.00	Peak	H	167	41	-69.91	14.92	52.01	73.98	-21.97
17475.00	Peak	H	-	-	-70.51	21.86	58.35	68.20	-9.85
23300.00	Peak	H	-	-	-65.86	9.23	40.83	68.20	-27.37
29125.00	Peak	H	-	-	-49.89	-9.66	37.91	68.20	-30.29

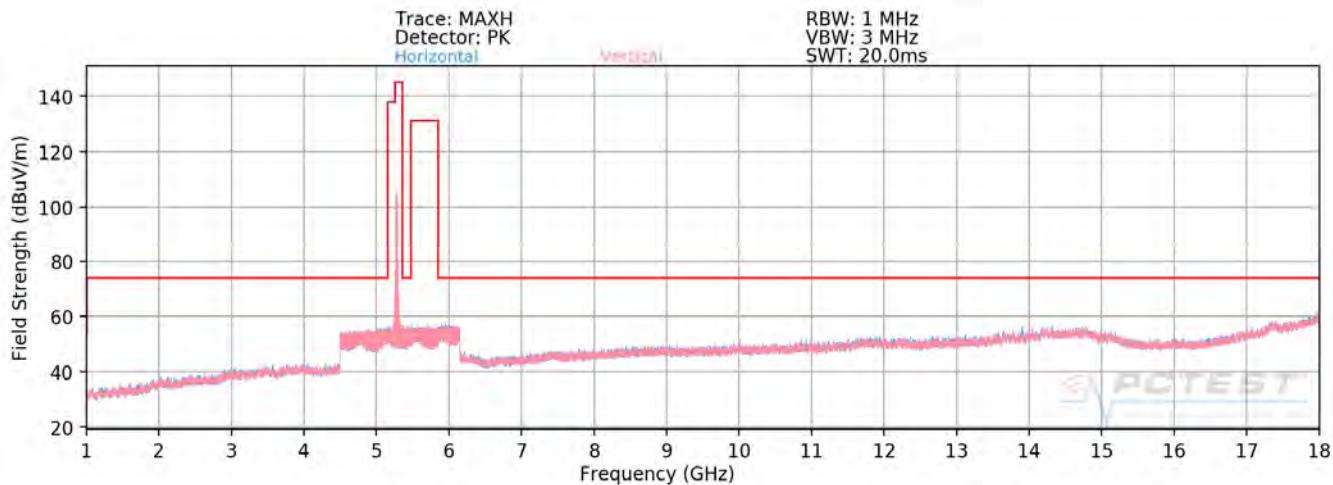
Table 7-161. Radiated Measurements SISO ANT2 (106 Tones)with WCP

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 435 of 514

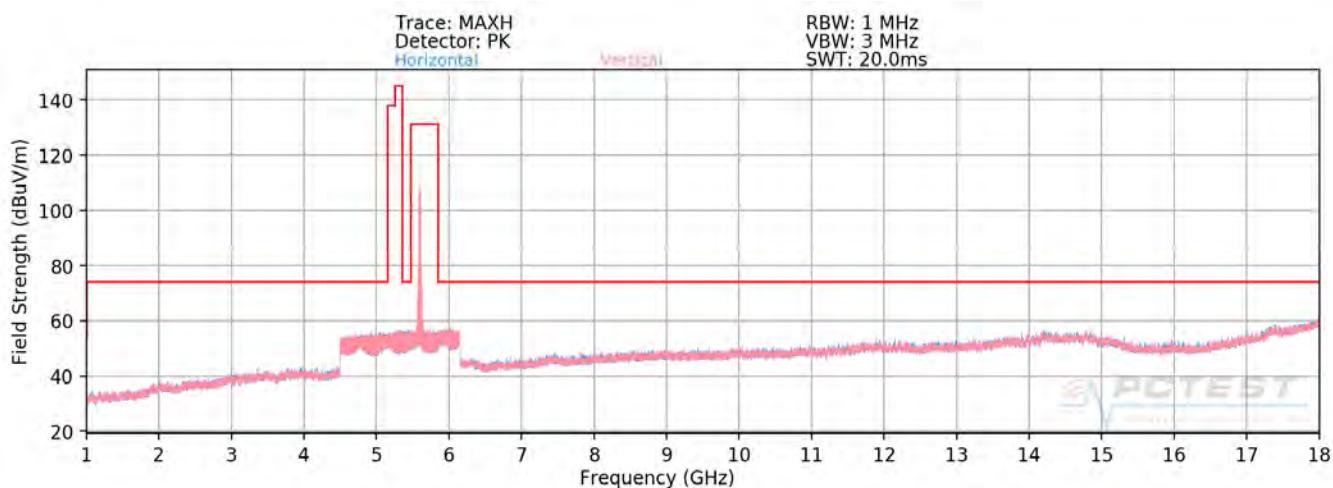
242 Tones



Plot 7-643. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)

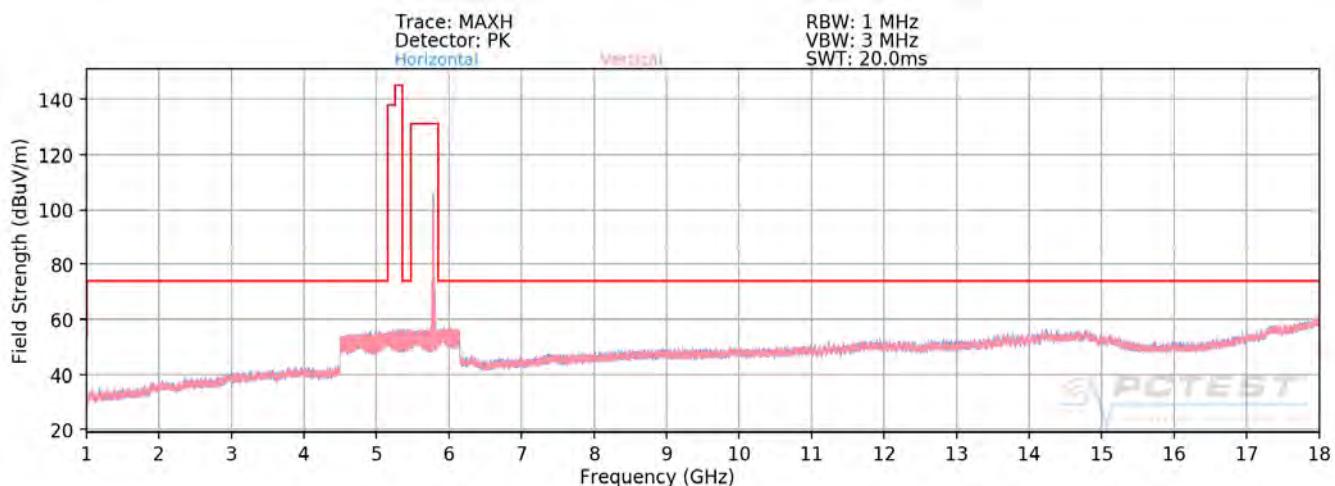


Plot 7-644. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)



FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 436 of 514

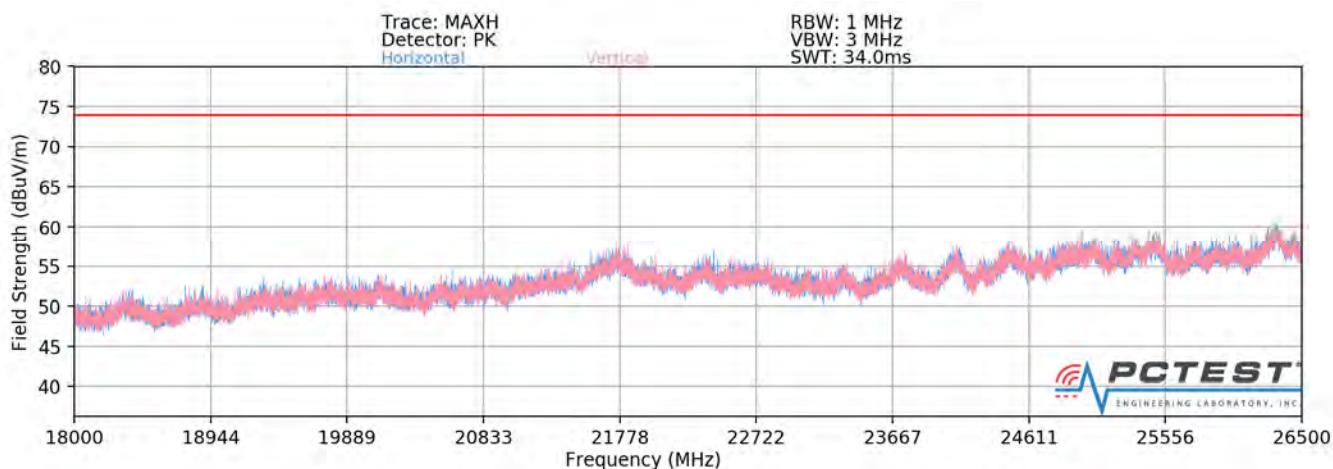
Plot 7-645. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)



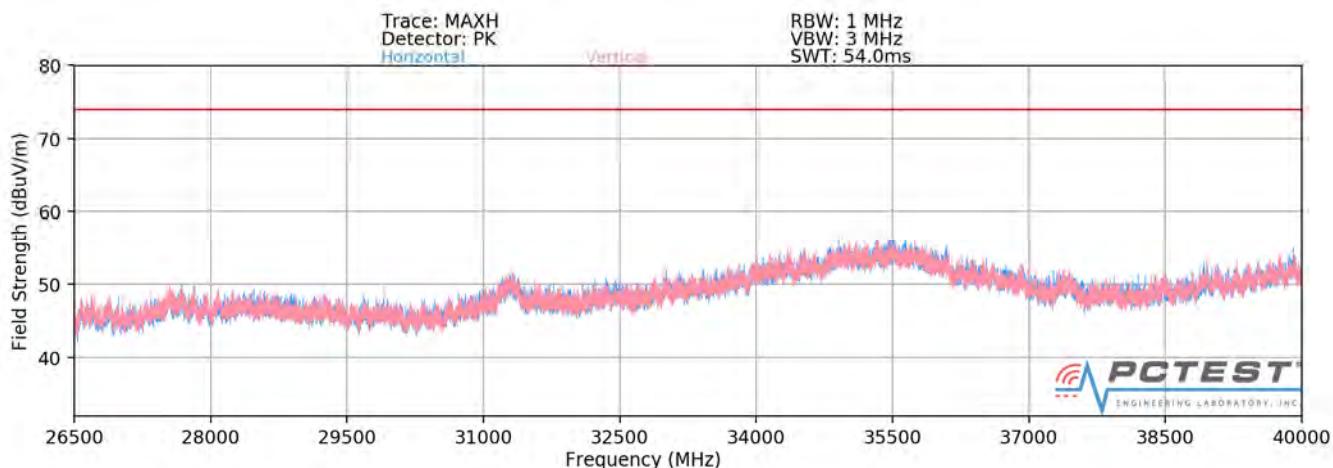
Plot 7-646. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 437 of 514

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



Plot 7-647. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax - 242 Tones)



Plot 7-648. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax - 242 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 438 of 514

SISO Antenna-2 Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode:	<u>802.11ax (20MHz BW)</u>
Worst Case Transfer Rate:	<u>MCS0</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5180MHz</u>
Channel:	<u>36</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	Peak	H	114	293	-69.11	12.74	50.63	68.20	-17.57
* 15540.00	Average	H	-	-	-81.33	15.28	40.95	53.98	-13.03
* 15540.00	Peak	H	-	-	-70.11	15.28	52.17	73.98	-21.81
* 20720.00	Average	H	-	-	-77.74	7.38	27.10	53.98	-26.88
* 20720.00	Peak	H	-	-	-67.65	7.38	37.20	73.98	-36.78
25900.00	Peak	H	-	-	-66.47	9.85	40.85	68.20	-27.35

Table 7-162. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	<u>802.11ax (20MHz BW)</u>
Worst Case Transfer Rate:	<u>MCS0</u>
RU Index:	<u>61</u>
Distance of Measurements:	<u>1 & 3 Meters</u>
Operating Frequency:	<u>5200MHz</u>
Channel:	<u>40</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	Peak	H	322	305	-69.99	12.24	49.25	68.20	-18.95
* 15600.00	Average	H	-	-	-81.98	15.40	40.42	53.98	-13.55
* 15600.00	Peak	H	-	-	-70.55	15.40	51.85	73.98	-22.12
* 20800.00	Average	H	-	-	-78.24	7.85	27.07	53.98	-26.91
* 20800.00	Peak	H	-	-	-67.94	7.85	37.37	73.98	-36.61
26000.00	Peak	H	-	-	-66.66	10.44	41.23	68.20	-26.97

Table 7-163. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 439 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	Peak	H	-	-	-69.15	12.41	50.26	68.20	-17.94
* 15720.00	Average	H	-	-	-82.75	16.70	40.95	53.98	-13.03
* 15720.00	Peak	H	-	-	-70.80	16.70	52.90	73.98	-21.08
* 20960.00	Average	H	-	-	-77.81	7.75	27.39	53.98	-26.59
* 20960.00	Peak	H	-	-	-67.66	7.75	37.54	73.98	-36.44
26200.00	Peak	H	-	-	-65.67	10.26	42.04	68.20	-26.16

Table 7-164. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.78	13.16	50.38	68.20	-17.82
* 15780.00	Average	H	-	-	-81.78	16.21	41.43	53.98	-12.55
* 15780.00	Peak	H	-	-	-70.66	16.21	52.55	73.98	-21.43
* 21040.00	Average	H	-	-	-77.76	7.78	27.47	53.98	-26.51
* 21040.00	Peak	H	-	-	-68.03	7.78	37.21	73.98	-36.77
26300.00	Peak	H	-	-	-67.02	10.58	41.01	68.20	-27.19

Table 7-165. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 440 of 514

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.51	13.66	50.15	68.20	-18.05
* 15840.00	Average	H	-	-	-82.11	15.64	40.53	53.98	-13.45
* 15840.00	Peak	H	-	-	-70.00	15.64	52.64	73.98	-21.34
* 21120.00	Average	H	-	-	-77.61	17.26	37.11	53.98	-16.87
* 21120.00	Peak	H	-	-	-67.28	17.26	47.44	73.98	-26.54
26400.00	Peak	H	-	-	-65.69	19.67	51.44	68.20	-16.76

Table 7-166. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5320MHz
Channel:	64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 10640.00	Average	H	-	-	-81.51	14.15	39.64	53.98	-14.34
* 10640.00	Peak	H	-	-	-69.50	14.15	51.65	73.98	-22.33
* 15960.00	Average	H	-	-	-82.01	15.01	40.00	53.98	-13.98
* 15960.00	Peak	H	-	-	-69.87	15.01	52.14	73.98	-21.84
* 21280.00	Average	H	-	-	-77.60	17.51	37.37	53.98	-16.61
* 21280.00	Peak	H	-	-	-67.67	17.51	47.30	73.98	-26.68
26600.00	Peak	H	-	-	-51.40	1.44	47.49	68.20	-20.71

Table 7-167. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 441 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.45	17.61	43.16	53.98	-10.82
* 11000.00	Peak	H	-	-	-69.50	17.61	55.11	73.98	-18.87
16500.00	Peak	H	-	-	-71.19	25.31	61.12	68.20	-7.08
22000.00	Peak	H	-	-	-67.36	8.71	38.80	68.20	-29.40
27500.00	Peak	H	-	-	-51.87	-9.42	36.16	68.20	-32.04

Table 7-168. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11200.00	Average	H	-	-	-81.44	16.98	42.54	53.98	-11.44
* 11200.00	Peak	H	-	-	-69.62	16.98	54.36	73.98	-19.62
16800.00	Peak	H	-	-	-69.39	24.87	62.48	68.20	-5.72
* 22400.00	Average	H	-	-	-78.01	9.30	28.75	53.98	-25.23
* 22400.00	Peak	H	-	-	-67.06	9.30	39.70	73.98	-34.28
28000.00	Peak	H	-	-	-49.23	-9.24	38.99	68.20	-29.21

Table 7-169. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 442 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11440.00	Average	H	-	-	-82.72	18.07	42.35	53.98	-11.63
* 11440.00	Peak	H	-	-	-70.44	18.07	54.63	73.98	-19.35
17160.00	Peak	H	-	-	-70.48	24.98	61.50	68.20	-6.70
* 22880.00	Average	H	-	-	-78.65	8.86	27.67	53.98	-26.31
* 22880.00	Peak	H	-	-	-68.14	8.86	38.18	73.98	-35.80
28600.00	Peak	H	-	-	-52.78	-9.13	35.55	68.20	-32.65

Table 7-170. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11490.00	Average	H	288	293	-80.11	15.22	42.11	53.98	-11.87
* 11490.00	Peak	H	288	293	-69.99	15.22	52.23	73.98	-21.75
17235.00	Peak	H	-	-	-70.14	19.54	56.40	68.20	-11.80
* 22980.00	Average	H	-	-	-77.76	8.38	28.08	53.98	-25.90
* 22980.00	Peak	H	-	-	-67.96	8.38	37.88	73.98	-36.10
28725.00	Peak	H	-	-	-52.38	-8.87	36.21	68.20	-31.99

Table 7-171. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 443 of 514

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11570.00	Average	H	280	275	-80.56	15.02	41.46	53.98	-12.52
* 11570.00	Peak	H	280	275	-68.99	15.02	53.03	73.98	-20.95
17355.00	Peak	H	-	-	-70.22	23.41	60.19	68.20	-8.01
23140.00	Peak	H	-	-	-67.44	8.78	38.80	68.20	-29.40
28925.00	Peak	H	-	-	-52.55	-8.79	36.12	68.20	-32.08

Table 7-172. Radiated Measurements SISO ANT2 (242 Tones)

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11650.00	Average	H	375	11	-80.69	14.92	41.23	53.98	-12.75
* 11650.00	Peak	H	375	11	-70.11	14.92	51.81	73.98	-22.17
17475.00	Peak	H	-	-	-70.88	21.86	57.98	68.20	-10.22
23300.00	Peak	H	-	-	-65.90	9.23	40.78	68.20	-27.42
29125.00	Peak	H	-	-	-48.41	-9.66	39.39	68.20	-28.81

Table 7-173. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 444 of 514