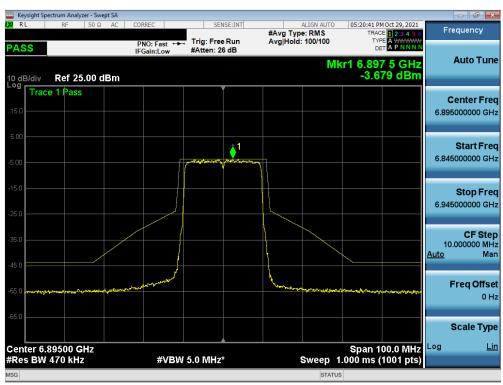


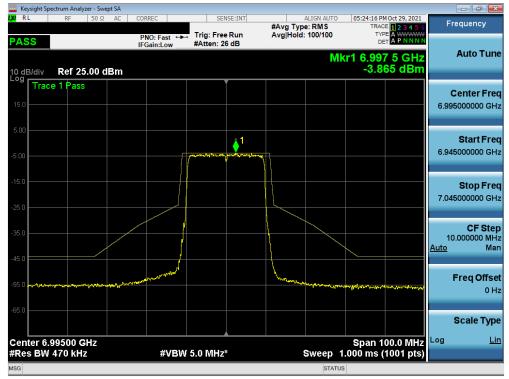
Plot 7-392. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 183)



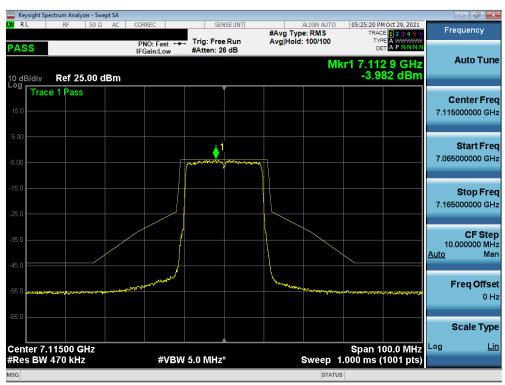
Plot 7-393. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 224 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 231 of 305
© 2021 PCTEST			V 9.0 02/01/2019





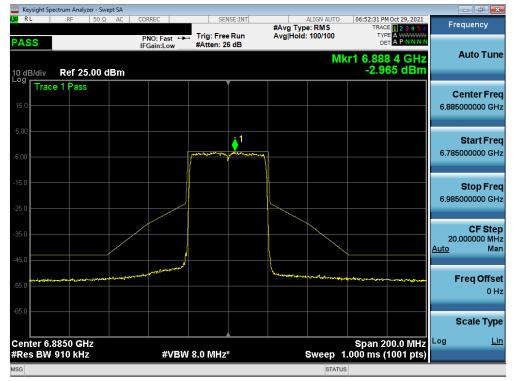
Plot 7-394. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 209)



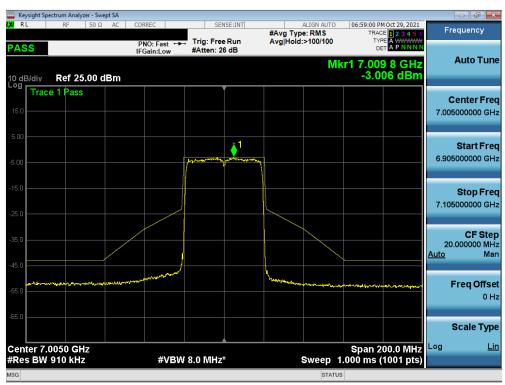
Plot 7-395. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 233)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 222 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 232 of 305
© 2021 PCTEST			V 9.0 02/01/2019





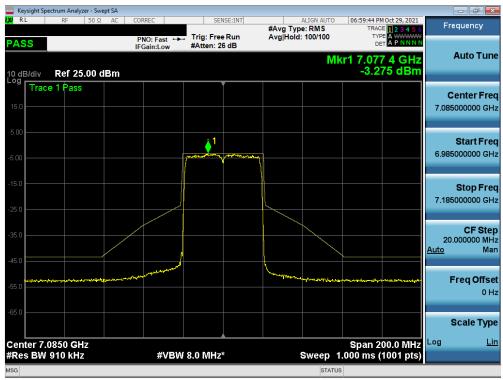
Plot 7-396. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 187)



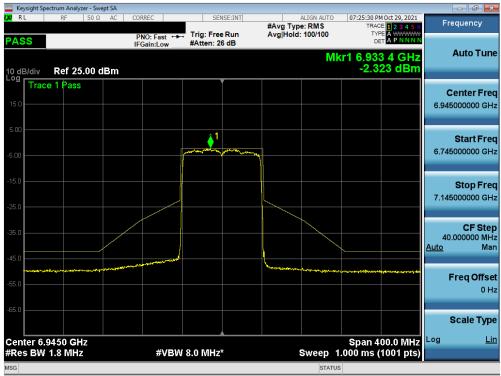
Plot 7-397. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 222 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 233 of 305





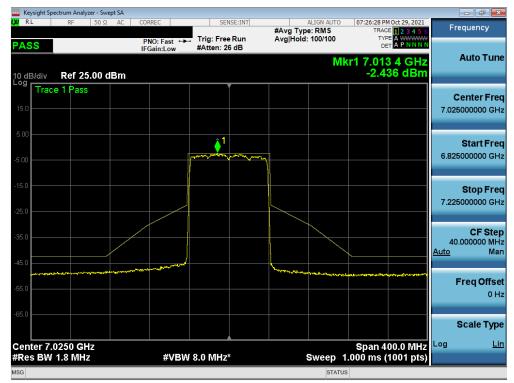
Plot 7-398. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 227)



Plot 7-399. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 224 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 234 of 305
© 2021 PCTEST	•	·	V 9.0 02/01/2019



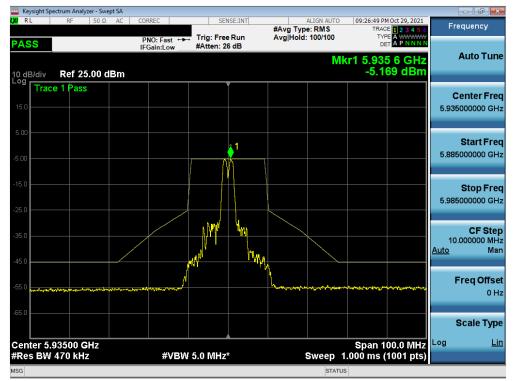


Plot 7-400. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 215)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 235 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 235 01 305



MIMO Antenna-2 In-Band Emissions (26 Tones)



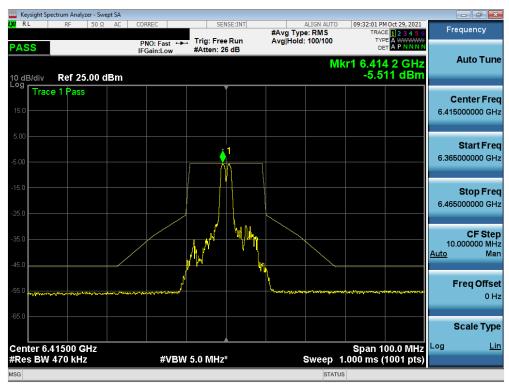
Plot 7-401. In-Band Emission Plot MIMO ANT2 (20MHz 802.11ax (26 Tones) (UNII Band 5) - Ch. 2)



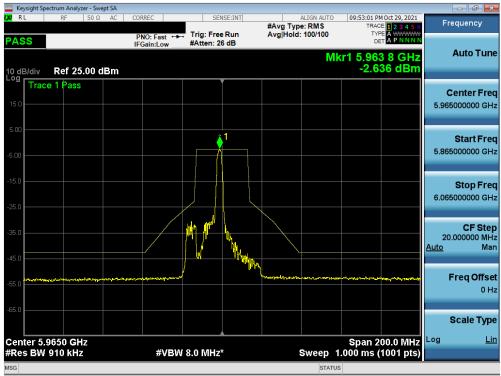
Plot 7-402. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 45)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 226 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 236 of 305
© 2021 PCTEST			V 9.0 02/01/2019





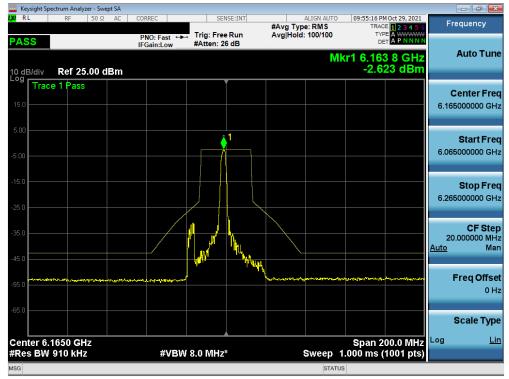
Plot 7-403. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 93)



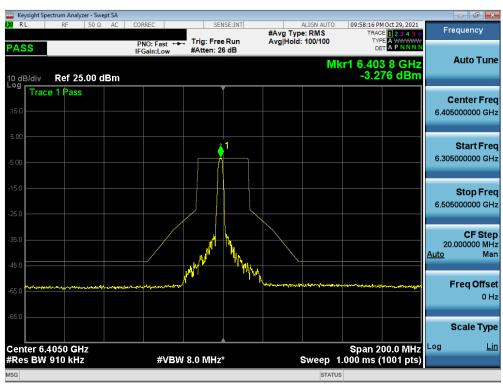
Plot 7-404. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 3)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 237 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 237 01 303





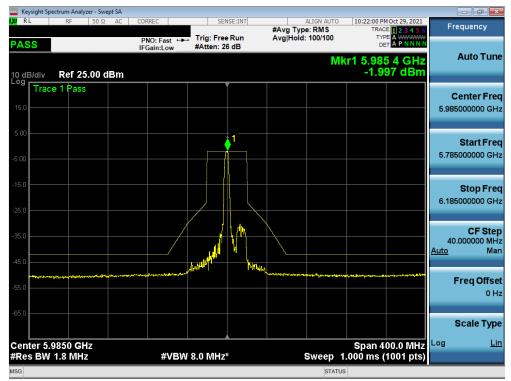
Plot 7-405. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 43)



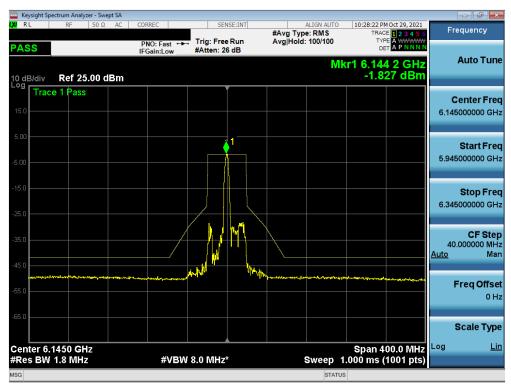
Plot 7-406. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 220 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset		Page 238 of 305
© 2021 PCTEST	•	•		V 9.0 02/01/2019





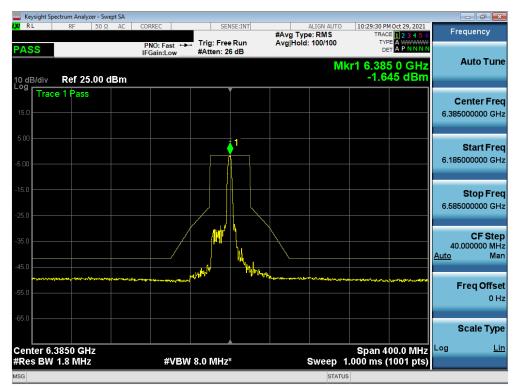
Plot 7-407. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 7)



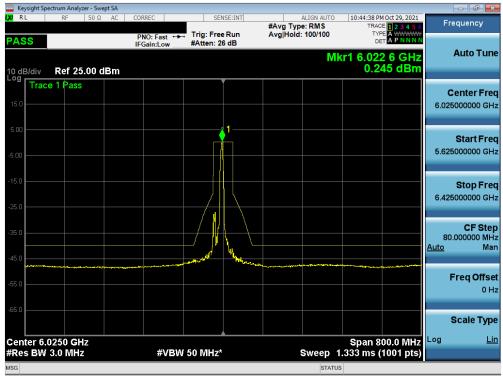
Plot 7-408. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 39)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 239 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 239 01 303





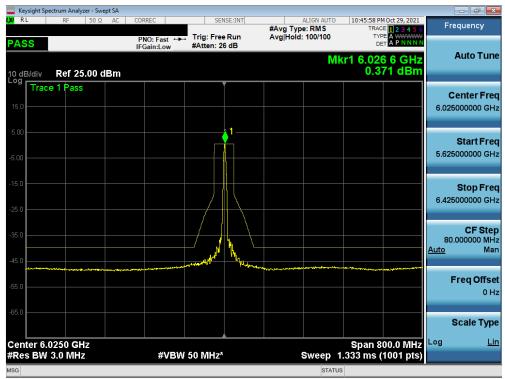
Plot 7-409. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 87)



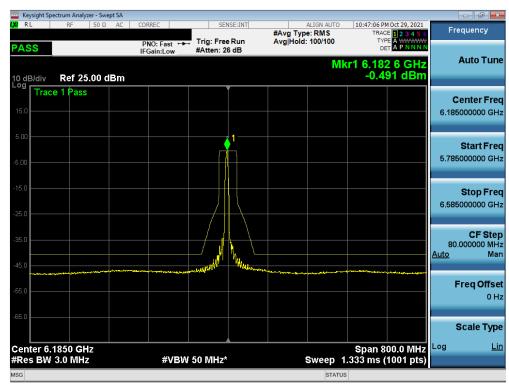
Plot 7-410. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 5) - Ch. 15)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Domo 240 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 240 of 305
© 2021 PCTEST	•	·	V 9.0 02/01/2019





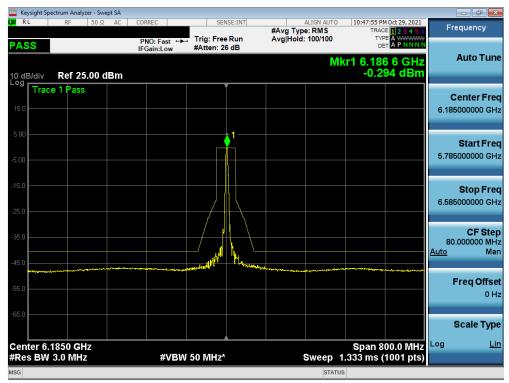
Plot 7-411. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 5) - Ch. 15)



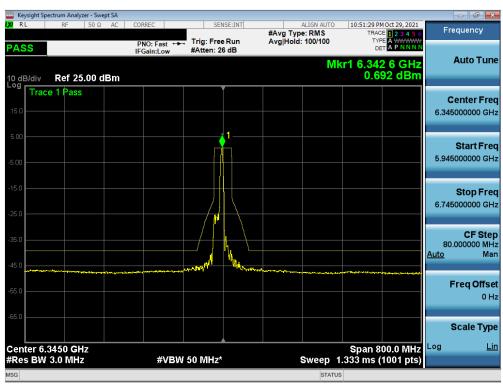
Plot 7-412. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 5) - Ch. 47)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 244 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 241 of 305
© 2021 PCTEST			V 9.0 02/01/2019





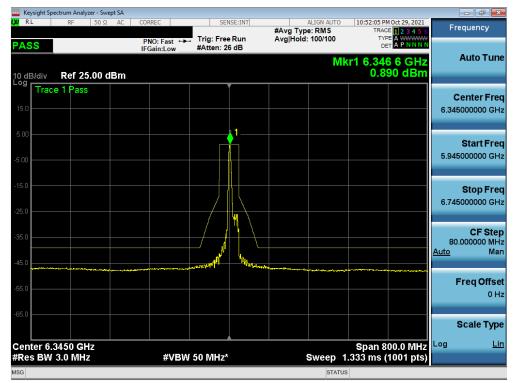
Plot 7-413. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 5) - Ch. 47)



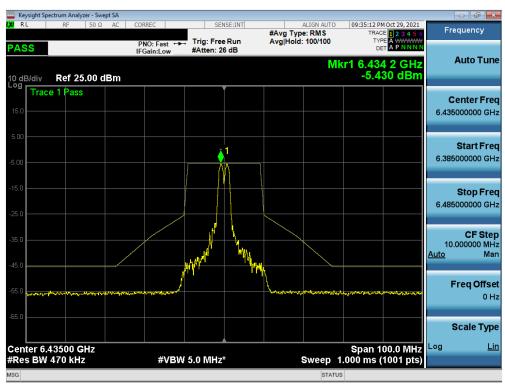
Plot 7-414. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 5) - Ch. 79)

FCC ID: A3LSMS908U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 242 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 242 of 305
© 2021 PCTEST			V 9.0 02/01/2019





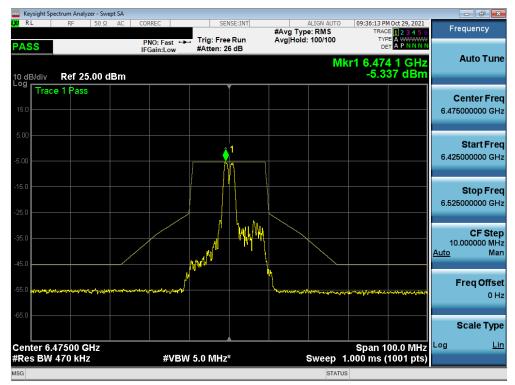
Plot 7-415. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 5) - Ch. 79)



Plot 7-416. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 97)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 242 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 243 of 305





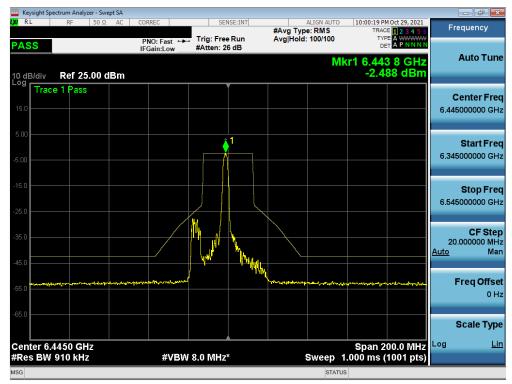
Plot 7-417. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 105)



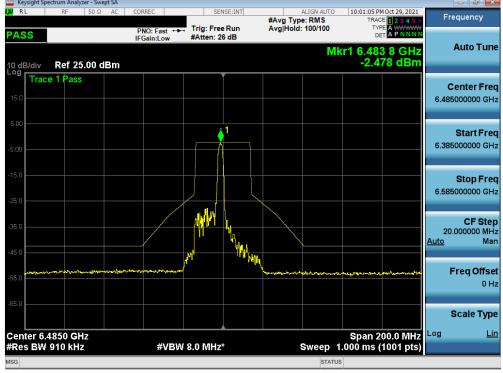
Plot 7-418. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 113)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 244 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 244 of 305





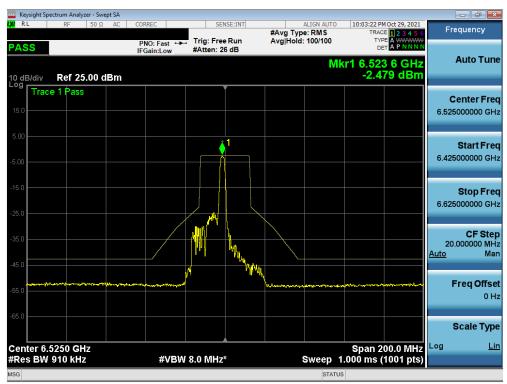
Plot 7-419. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 99)



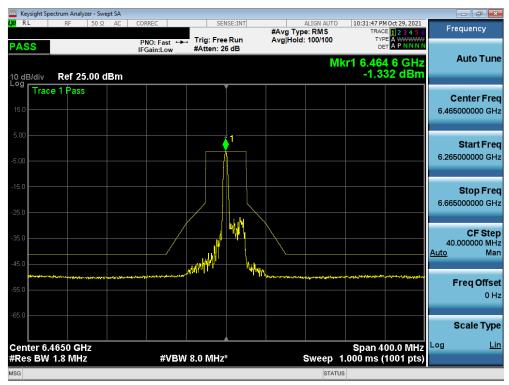
Plot 7-420. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 107)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 245 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 245 of 305
© 2021 PCTEST			V 9.0 02/01/2019





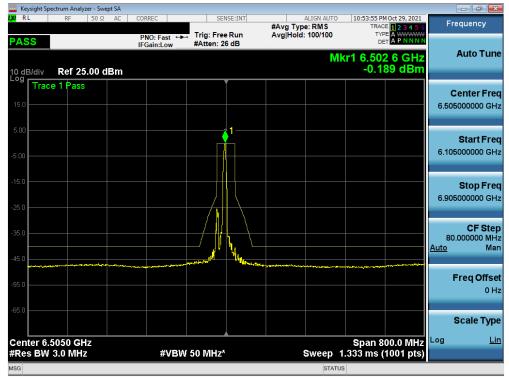
Plot 7-421. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 115)



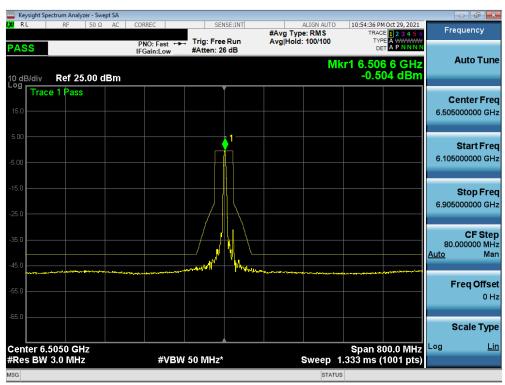
Plot 7-422. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 246 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 246 of 305
© 2021 PCTEST	V 9.0 02/01/2019		





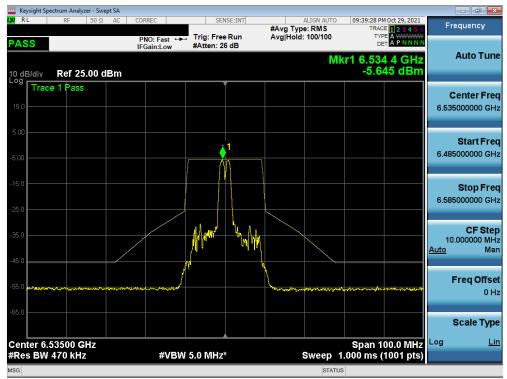
Plot 7-423. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 6) - Ch. 111)



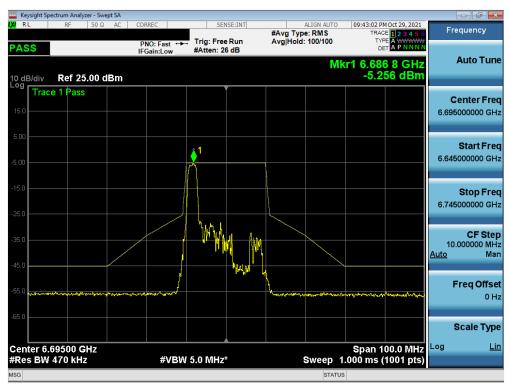
Plot 7-424. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 6) - Ch. 111)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 247 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 247 of 305
© 2021 PCTEST			V 9.0 02/01/2019





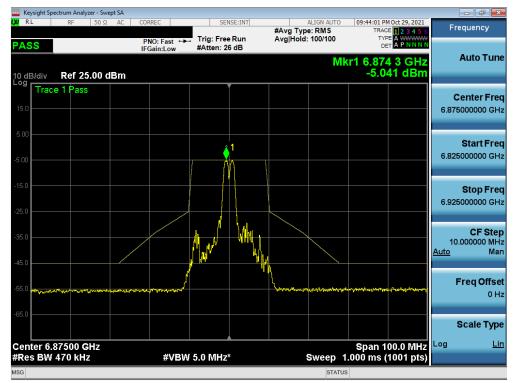
Plot 7-425. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 117)



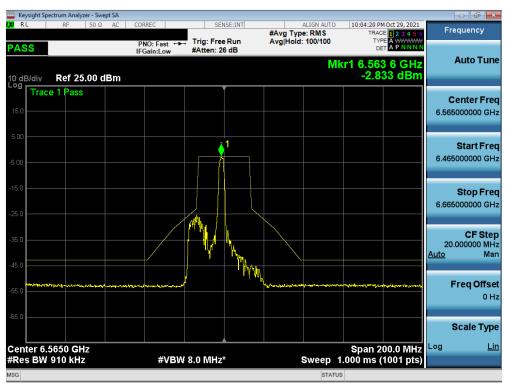
Plot 7-426. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 149)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 249 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 248 of 305





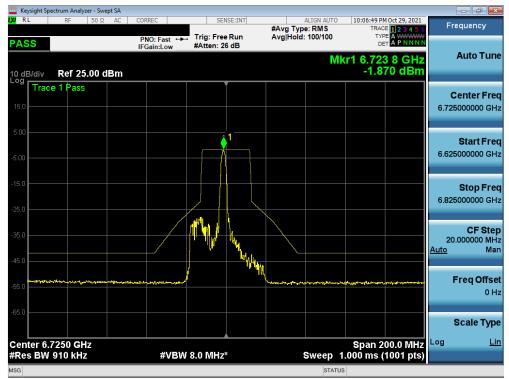
Plot 7-427. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 185)



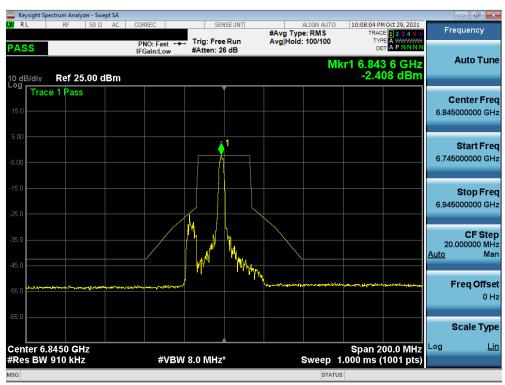
Plot 7-428. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 123)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 249 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 249 01 303





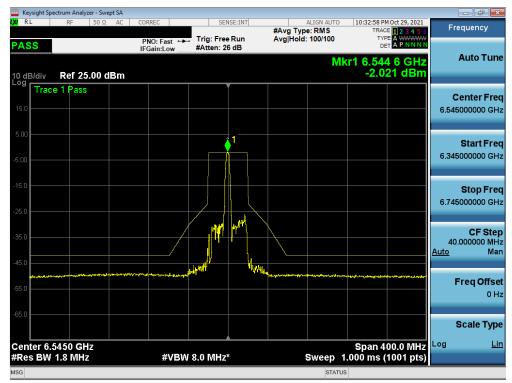
Plot 7-429. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 155)



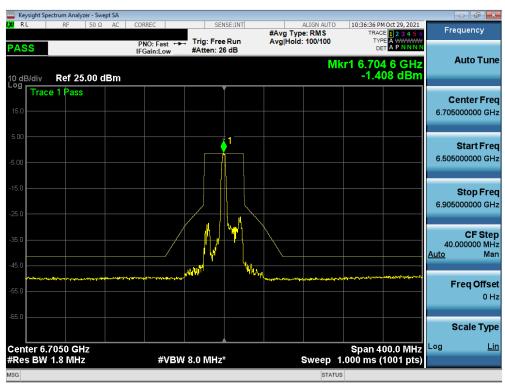
Plot 7-430. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 179)

FCC ID: A3LSMS908U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 250 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 250 of 305
© 2021 PCTEST			V 9.0 02/01/2019





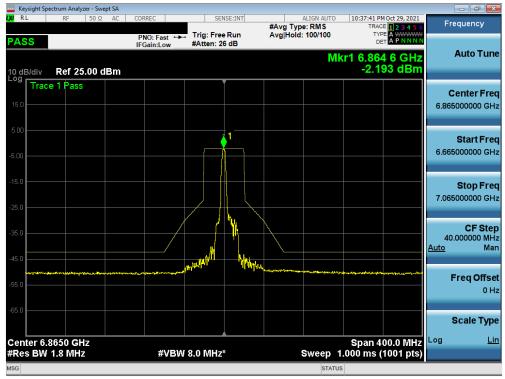
Plot 7-431. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 119)



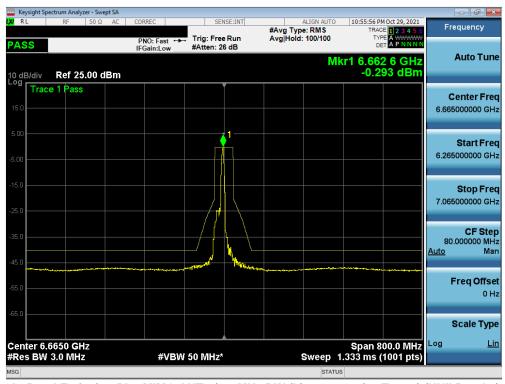
Plot 7-432. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 151)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 251 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 251 of 305





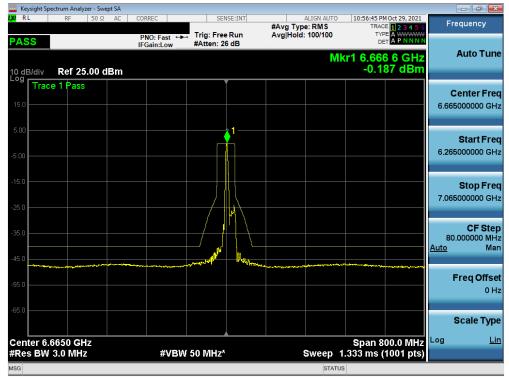
Plot 7-433. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 183)



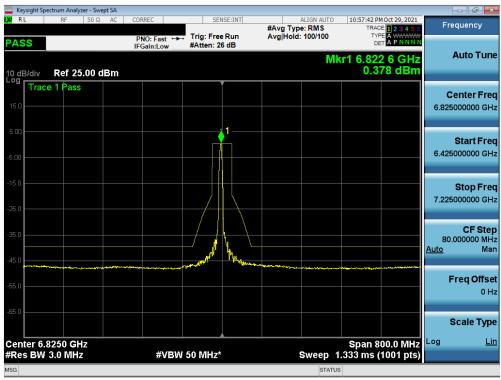
Plot 7-434. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 7) - Ch. 143)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 252 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 252 01 505





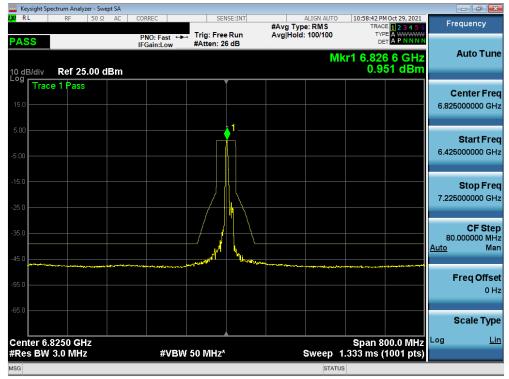
Plot 7-435. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 7) - Ch. 143)



Plot 7-436. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 7) - Ch. 175)

FCC ID: A3LSMS908U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 252 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 253 of 305
© 2021 PCTEST			V 9.0 02/01/2019





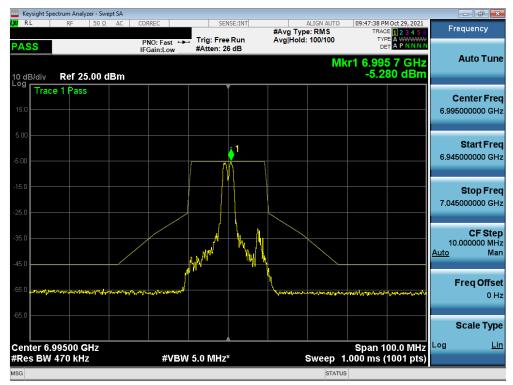
Plot 7-437. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 7) - Ch. 175)



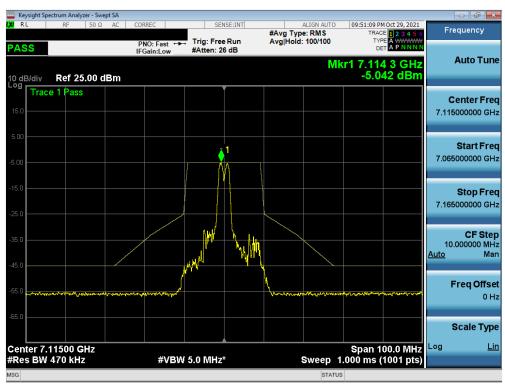
Plot 7-438. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 254 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 254 01 505





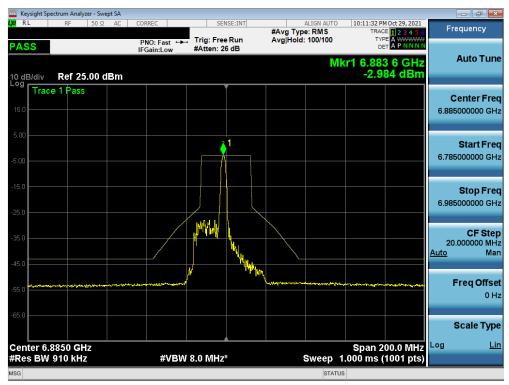
Plot 7-439. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 209)



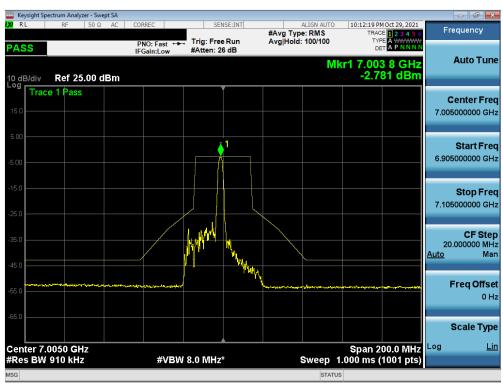
Plot 7-440. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 233)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 255 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 255 of 305





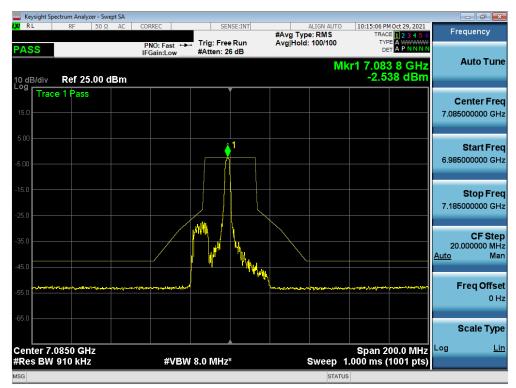
Plot 7-441. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 187)



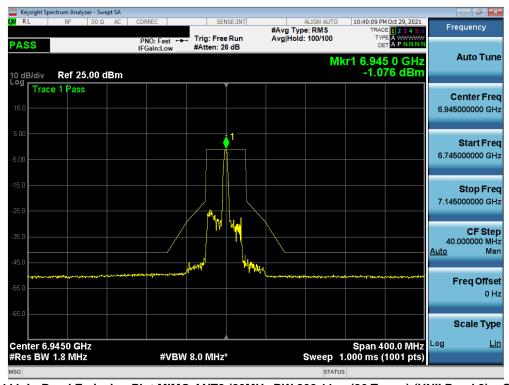
Plot 7-442. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMS908U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 250 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 256 of 305
© 2021 PCTEST			V 9.0 02/01/2019





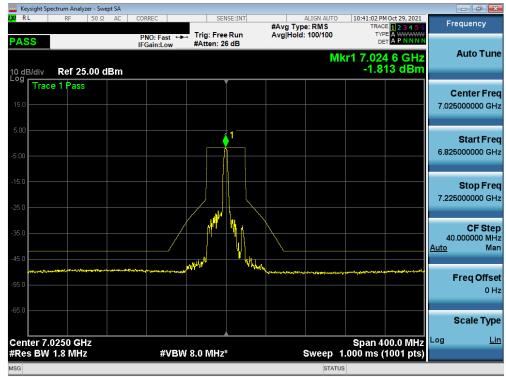
Plot 7-443. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 227)



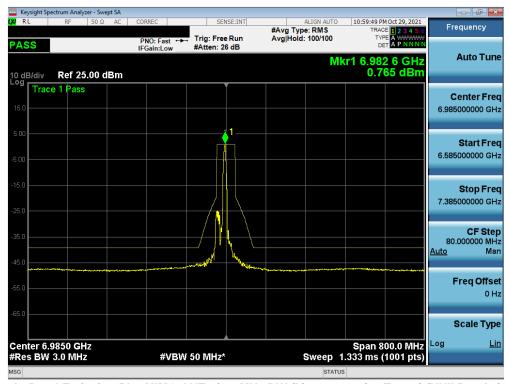
Plot 7-444. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 257 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset		Page 257 of 305
© 2021 PCTEST	-	•		V 9.0 02/01/2019





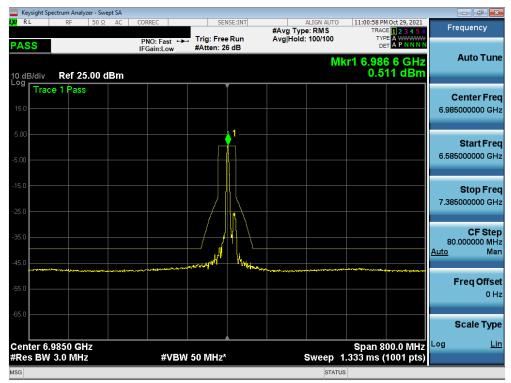
Plot 7-445. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 215)



Plot 7-446. In-Band Emission Plot MIMO ANT2 (160MHz BW (L) 802.11ax (26 Tones) (UNII Band 8) - Ch. 207)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 258 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 256 01 505



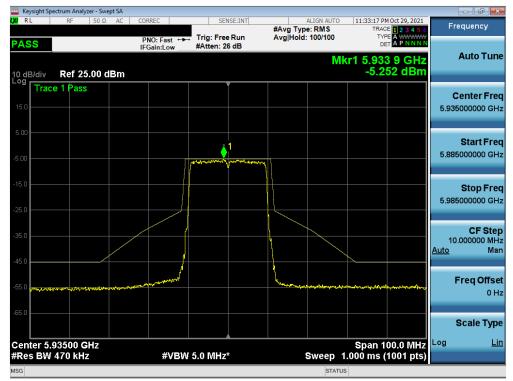


Plot 7-447. In-Band Emission Plot MIMO ANT2 (160MHz BW (U) 802.11ax (26 Tones) (UNII Band 8) - Ch. 207)

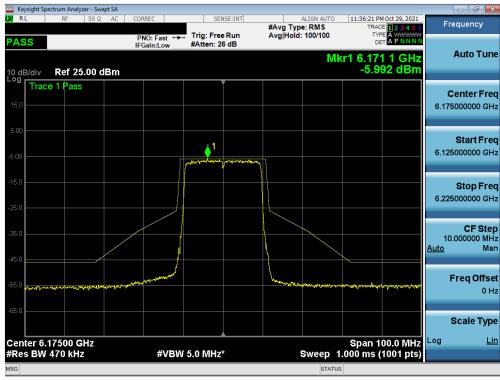
FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 250 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 259 of 305



MIMO Antenna-2 In-Band Emissions (FULL Tones)



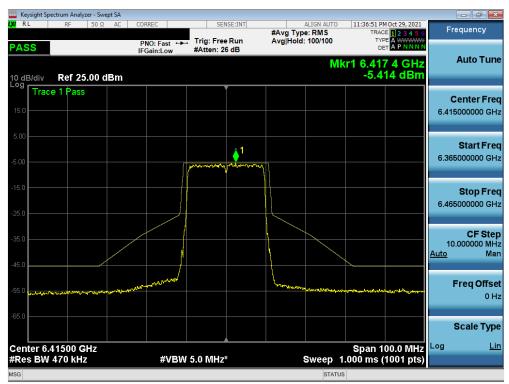
Plot 7-448. In-Band Emission Plot MIMO ANT2 (20MHz 802.11ax (FULL Tones) (UNII Band 5) - Ch. 2)



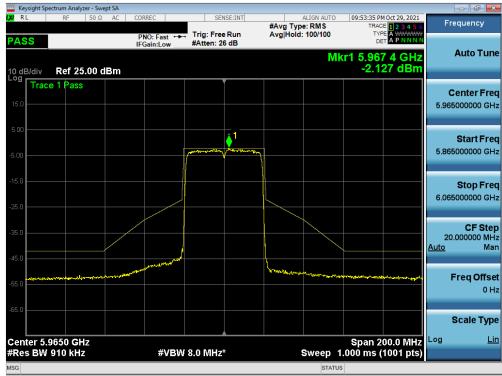
Plot 7-449. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 45)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 260 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 200 01 303





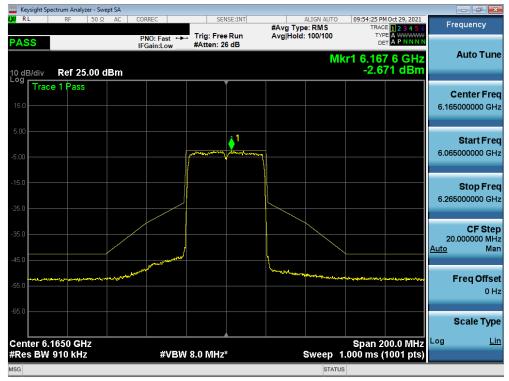
Plot 7-450. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) UNII Band 5) - Ch. 93)



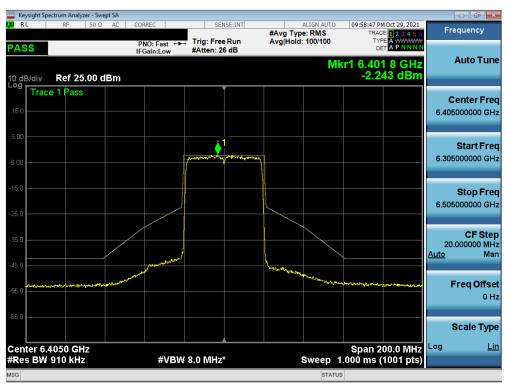
Plot 7-451. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 3)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 264 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 261 of 305
© 2021 PCTEST			V 9.0 02/01/2019





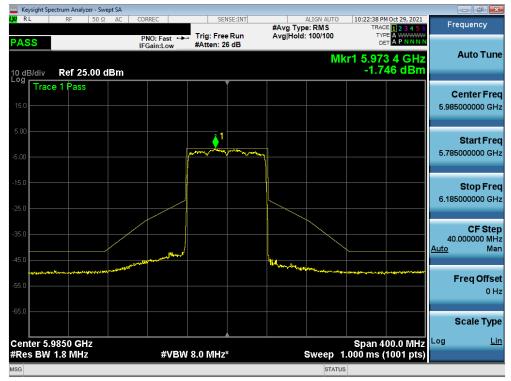
Plot 7-452. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 43)



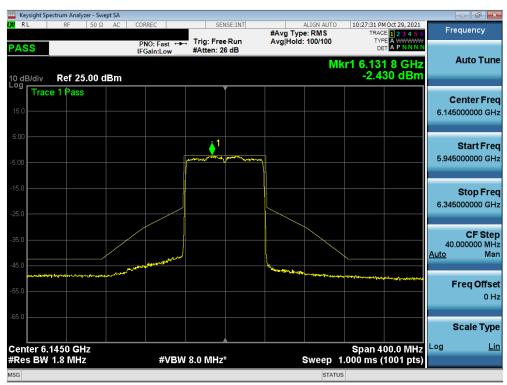
Plot 7-453. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 262 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 202 01 303





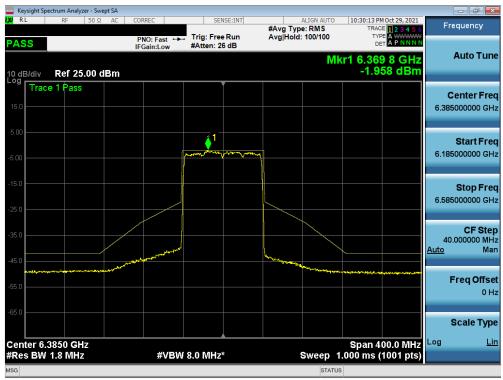
Plot 7-454. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 7)



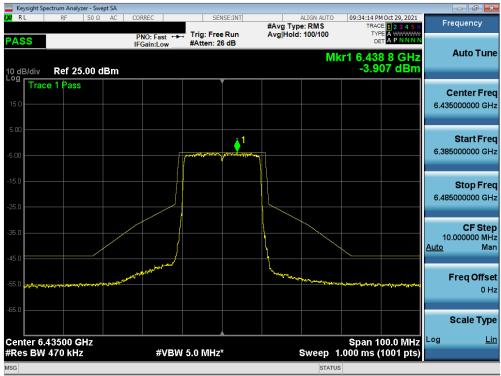
Plot 7-455. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 39)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 263 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 203 01 303





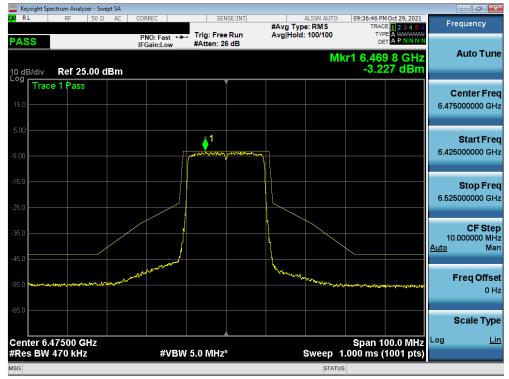
Plot 7-456. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 5) - Ch. 87)



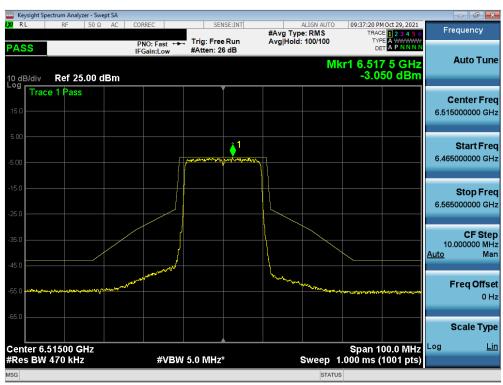
Plot 7-457. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 97)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 264 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 264 of 305





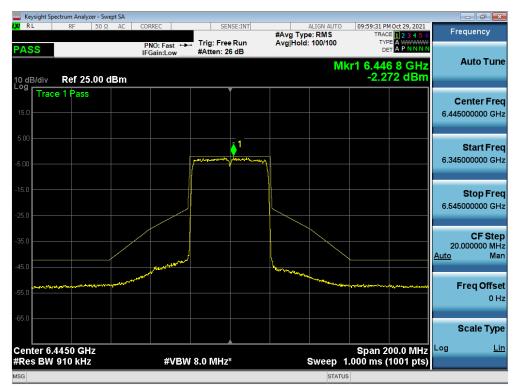
Plot 7-458. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 105)



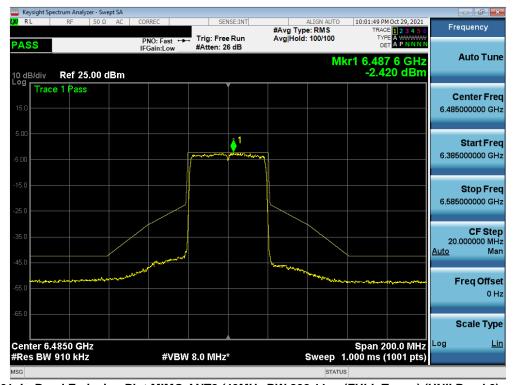
Plot 7-459. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 113)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 265 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 203 01 303





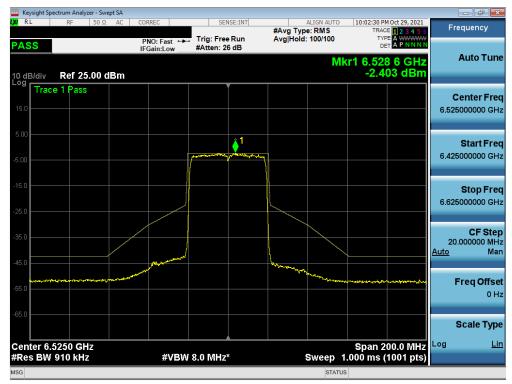
Plot 7-460. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 99)



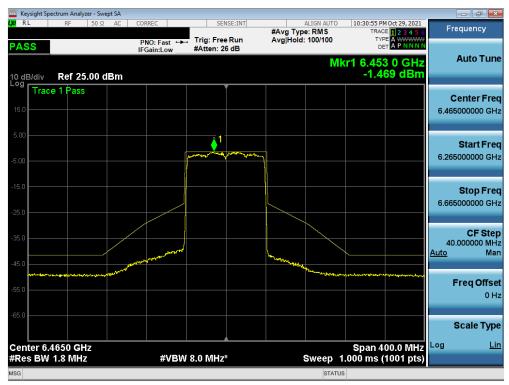
Plot 7-461. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 107)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 200 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 266 of 305
© 2021 PCTEST			V 9.0 02/01/2019





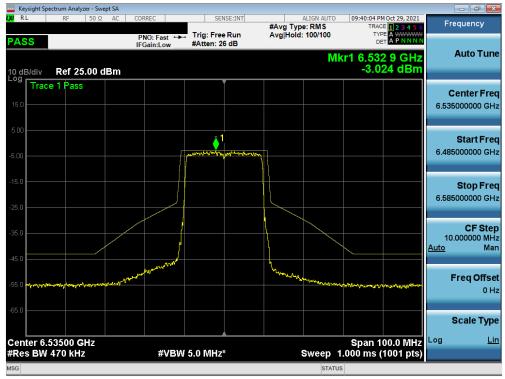
Plot 7-462. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 115)



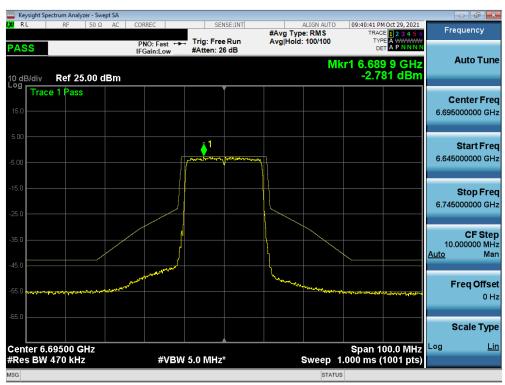
Plot 7-463. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		D 007 -f 005
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset		Page 267 of 305
© 2021 PCTEST	•	•		V 9.0 02/01/2019





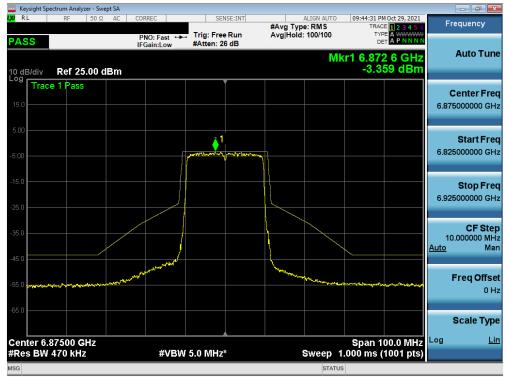
Plot 7-464. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 117)



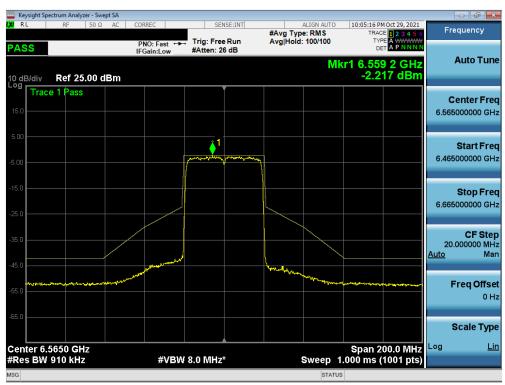
Plot 7-465. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 149)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 269 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 268 of 305





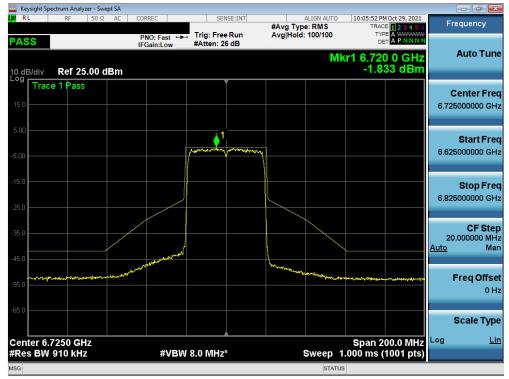
Plot 7-466. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 185)



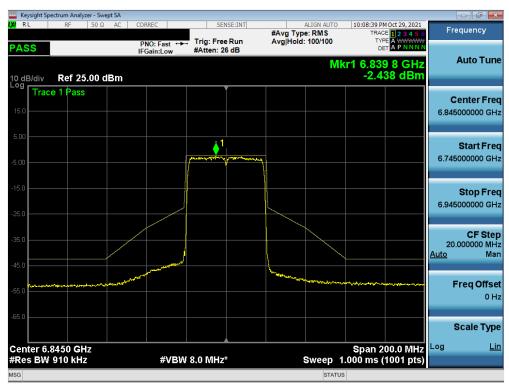
Plot 7-467. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 123)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 269 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 209 01 303





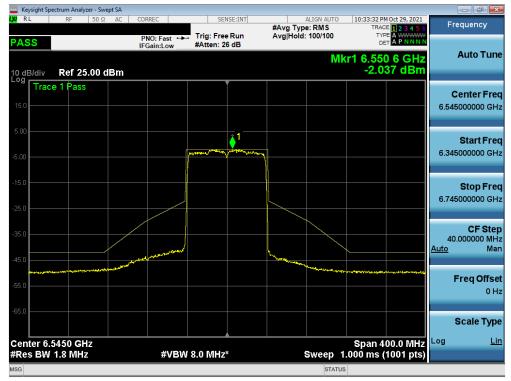
Plot 7-468. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 155)



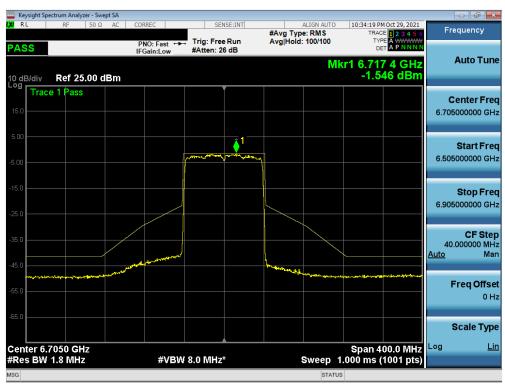
Plot 7-469. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 179)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 270 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 270 of 305





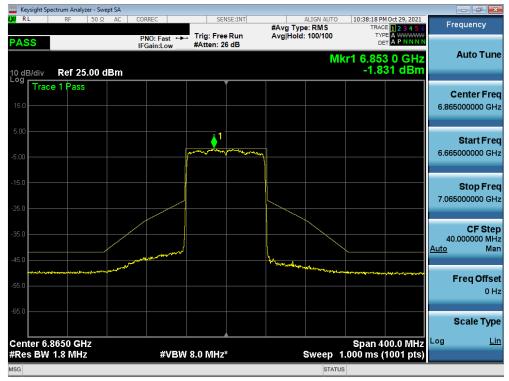
Plot 7-470. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 119)



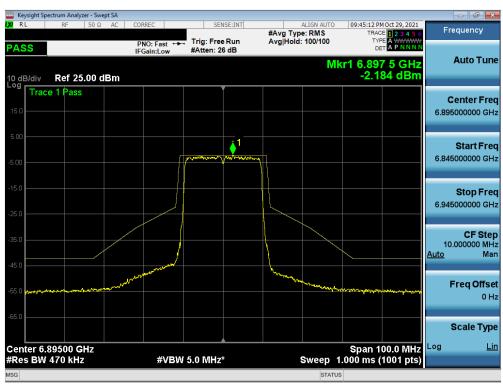
Plot 7-471. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 151)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 271 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 271 of 305





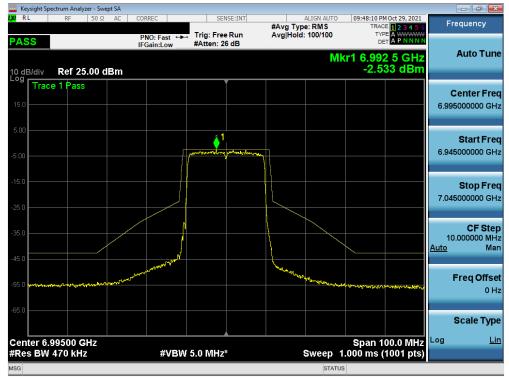
Plot 7-472. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 7) - Ch. 183)



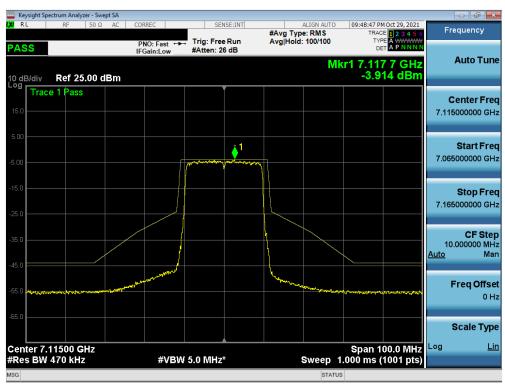
Plot 7-473. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 272 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 272 of 305
© 2021 PCTEST			V 9.0 02/01/2019





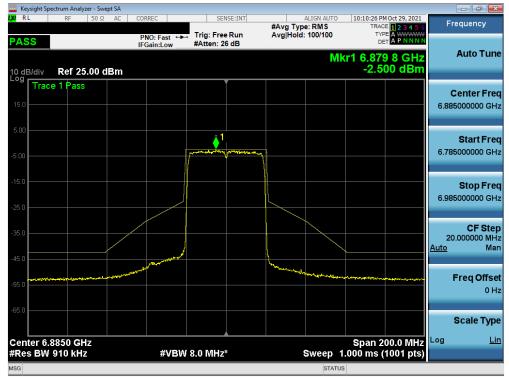
Plot 7-474. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 209)



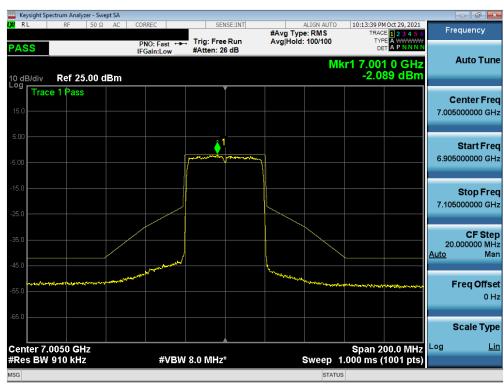
Plot 7-475. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 233)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 272 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 273 of 305
© 2021 PCTEST			V 9.0 02/01/2019





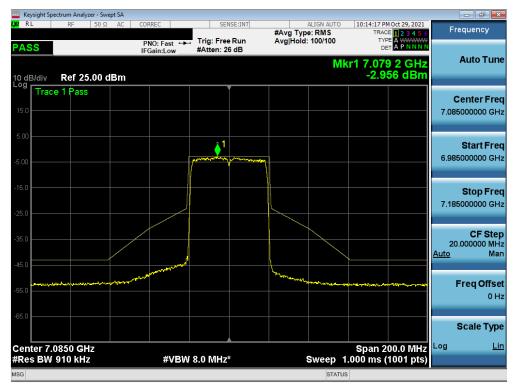
Plot 7-476. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 187)



Plot 7-477. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 274 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 274 of 305





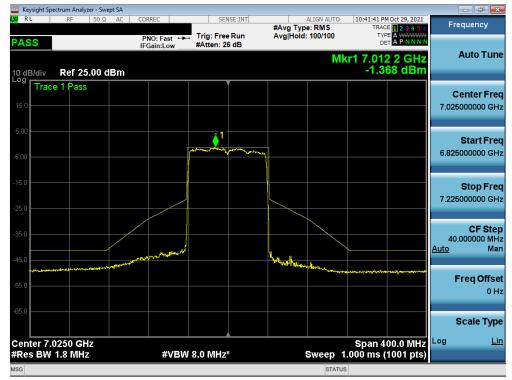
Plot 7-478. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 227)



Plot 7-479. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 275 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 275 01 505





Plot 7-480. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (FULL Tones) (UNII Band 8) - Ch. 215)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 276 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 276 01 303



7.6 Contention Based Protocol – 802.11a/ax §15.407(d)(6)

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 987594 D02 V01R01

Test Settings

- 1. Using the AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 2. Connect the AWGN signal source to antenna 1, as shown in Figure 3, and transmit the signal (RF ON).
- **3.** Using signal analyzer 1 and antenna 2, measure the AWGN signal power level. Align antenna 2 and antenna 1 to maximize emission.
- **4.** Using equation 1, correct the measured power P_{meas} by the gain of antenna 2, G_2 and all cable losses and attenuations L to obtain the AWGN signal power level at antenna 2, P_2 .
- 5. Set the corrected power P₂ to an extremely low level (more than 20 dB below the -62 dBm threshold).
- 6. Place the EUT exactly where antenna 2 was. Configure the EUT to transmit a constant duty cycle.
- Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- **8.** Set the signal analyzer 1 center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of EUT.
- Monitor the signal analyzer 1 to verify if AWGN signal has been detected and EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- **10.** Determine and record the AWGN signal power level at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect the AWGN signal with 90% (or better) level of certainty.
- 11. Refer to Table 1 in KDB 987594 D02 Section I)b) to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 1, choose a different center frequency for the AWGN signal and repeat the process.

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 277 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Fage 277 01 303



Test Setup

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



Figure 7-5. Contention-based protocol test setup, radiated method, power measurement

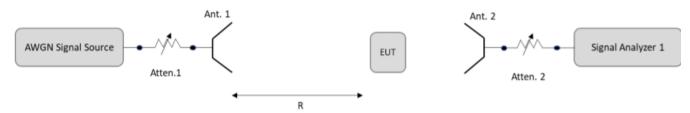


Figure 7-6. Contention-based protocol test setup, radiated method, detection threshold measurement

Test Notes

- 1. Per guidance from KDB 987594 D02 V01R01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-481). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-482), marker indicates the point at which the AWGN signal is introduced.
- 2. 15 trials were ran in order to assure that at least 90% of certainty was met.

$$P2 = Pmeas + L - G2$$

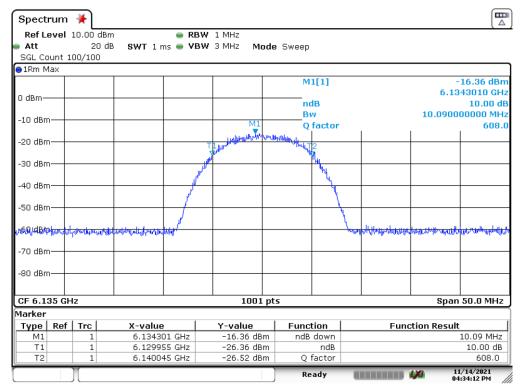
 $P2 = -53.21 + 1.92 - 10.72$
 $P2 = -62.01dBm$

Equation 7-1. Incumbent Detection Level Calculation

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 278 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	raye 210 01 305

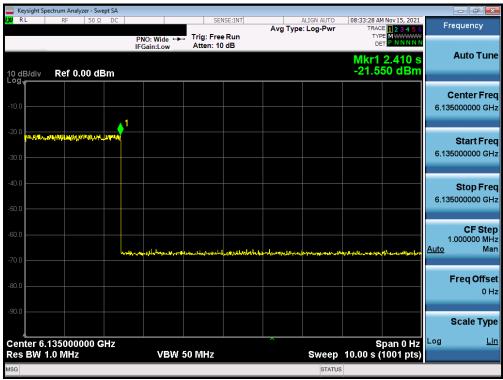
V 9.0 02/01/2019





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Plot 7-481. AWGN Sample Signal



Plot 7-482. Contention Based Protocol Timing Plot

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 270 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 279 of 305	



Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Detection Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	37	6135	20	6135	-68.89	-62.0	-6.89
UNII		6185	160	6110	-66.27	-62.0	-4.27
Band 5	47			6175	-65.90	-62.0	-3.90
				6240	-64.94	-62.0	-2.94
	101	6455	20	6455	-68.86	-62.0	-6.86
UNII		6505	160	6435	-65.00	-62.0	-3.00
Band 6	111			6495	-63.78	-62.0	-1.78
				6575	-64.43	-62.0	-2.43
	149	6695	20	6695	-68.26	-62.0	-6.26
UNII				6595	-65.46	-62.0	-3.46
Band 7	143	6665	160	6655	-64.52	-62.0	-2.52
				6735	-63.79	-62.0	-1.79
	213	7015	20	7015	-68.27	-62.0	-6.27
UNII				6915	-65.07	-62.0	-3.07
Band 8	207	6985	160	6975	-63.50	-62.0	-1.50
				7055	-63.49	-62.0	-1.49

Table 7-31. Contention Based Protocol – Incumbent Detection Results

Band	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100

Table 7-32. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 290 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 280 of 305	



7.7 Radiated Spurious Emission Measurements – Above 1GHz §15.205, §15.209

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. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), 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 within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-33 per Section 15.209.

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

Table 7-33. 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)
- Number of measurement points = 1001 (Number of points must be ≥ 2 x span/RBW)
- Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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
- Sweep time = auto couple

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 281 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 201 01 303



- 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.

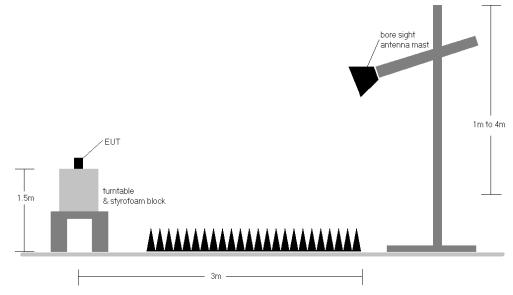


Figure 7-7. Test Instrument & Measurement Setup

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 282 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 202 01 303

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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 are below the limit shown in Table 7-33.
- 2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-33. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/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 68.2dBμV/m.
- 3. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB μ V/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
- 4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 5. This unit was tested with its standard battery.
- 6. 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.
- 7. 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.
- 8. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
- 9. 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.
- 10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

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

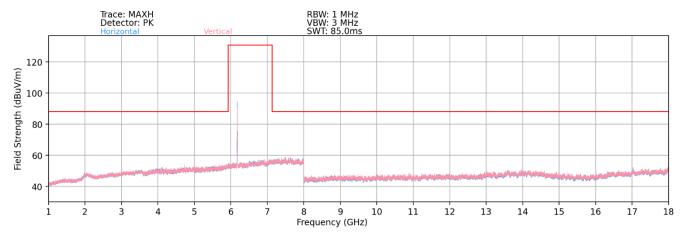
Radiated Band Edge Measurement Offset

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

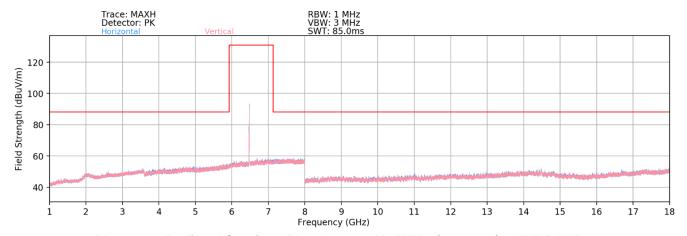
FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 202 of 205
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Page 283 of 305



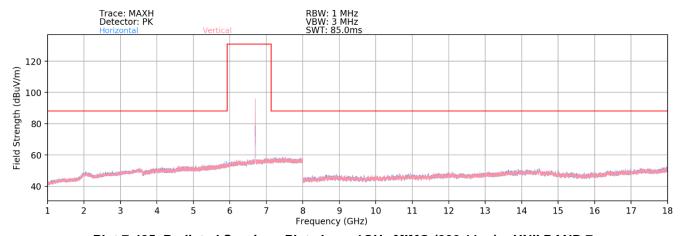
7.6.1 MIMO Radiated Spurious Emission Measurements (106 Tones)



Plot 7-483. Radiated Spurious Plot above 1GHz MIMO (802.11ax) - UNII BAND 5



Plot 7-484. Radiated Spurious Plot above 1GHz MIMO (802.11ax) - UNII BAND 6



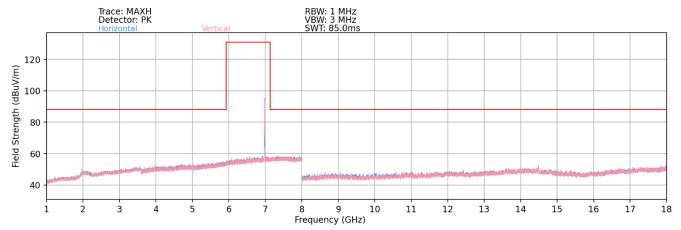
Plot 7-485. Radiated Spurious Plot above 1GHz MIMO (802.11ax) – UNII BAND 7

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 294 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 284 of 305	

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Plot 7-486. Radiated Spurious Plot above 1GHz MIMO (802.11ax) - UNII BAND 8

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 205 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 285 of 305	



MIMO (106 Tones) Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 5935MHz Channel: 2

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11870.00	Average	Н	-	-	-82.11	20.44	0.00	45.33	53.98	-8.65
*	11870.00	Peak	Н	-	-	-70.31	20.44	0.00	57.13	73.98	-16.85
*	17805.00	Average	Н	-	-	-83.78	26.31	0.00	49.53	53.98	-4.45
*	17805.00	Peak	Н	=	-	-72.44	26.31	0.00	60.87	73.98	-13.11
*	23740.00	Average	Н	-	-	-68.27	4.79	-9.54	33.97	53.98	-20.00
*	23740.00	Peak	Н	-	-	-58.12	4.79	-9.54	44.12	73.98	-29.86
	29675.00	Peak	Н	-	-	-59.30	7.24	-9.54	45.40	68.20	-22.80

Table 7-34. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6175MHz Channel: 45

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	12350.00	Average	Н	=	-	-82.32	21.02	0.00	45.70	53.98	-8.28
*	12350.00	Peak	Н	=	-	-70.52	21.02	0.00	57.50	73.98	-16.48
*	18525.00	Average	Н	-	-	-67.64	3.17	-9.54	32.98	53.98	-20.99
*	18525.00	Peak	Н	-	-	-57.53	3.17	-9.54	43.10	73.98	-30.88
	24700.00	Peak	Н	-	-	-58.21	5.18	-9.54	44.43	68.20	-23.77
	30875.00	Peak	Н	-	-	-58.09	7.86	-9.54	47.23	68.20	-20.97

Table 7-35. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 286 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 200 01 303



Channel:

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6415MHz

93

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12830.00	Peak	Н	=	=	-70.63	21.25	0.00	57.62	68.20	-10.58
*	19245.00	Average	Н	-	-	-67.89	3.55	-9.54	33.12	53.98	-20.86
*	19245.00	Peak	Н	-	ı	-58.35	3.55	-9.54	42.66	73.98	-31.32
	25660.00	Peak	Н	=	=	-58.22	5.47	-9.54	44.70	68.20	-23.50
	32075.00	Peak	Н	=	=	-57.55	8.18	-9.54	48.09	68.20	-20.11

Table 7-36. Radiated Measurements MIMO (106 Tones)

802.11ax Worst Case Mode: Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6435MHz Channel: 97

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12870.00	Peak	Н	-	-	-71.27	21.23	0.00	56.96	68.20	-11.24
*	19305.00	Average	Н	=	=	-67.69	3.78	-9.54	33.55	53.98	-20.43
*	19305.00	Peak	Н	-	-	-58.14	3.78	-9.54	43.10	73.98	-30.88
	25740.00	Peak	Н	=	=	-57.58	5.73	-9.54	45.60	68.20	-22.60
	32175.00	Peak	Н	=	=	-58.18	8.19	-9.54	47.47	68.20	-20.73

Table 7-37. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 207 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 287 of 305



Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6475MHz

Channel: 105

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12950.00	Peak	Н	=	=	-70.75	20.86	0.00	57.11	68.20	-11.09
*	19425.00	Average	Н	-	-	-68.03	3.82	-9.54	33.25	53.98	-20.73
*	19425.00	Peak	Н	-	-	-57.18	3.82	-9.54	44.10	73.98	-29.88
	25900.00	Peak	Н	=	=	-57.33	5.87	-9.54	45.99	68.20	-22.21
	32375.00	Peak	Н	-	-	-59.17	7.89	-9.54	46.18	68.20	-22.02

Table 7-38. Radiated Measurements MIMO (106 Tones)

6515MHz

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters

Channel: 113

Operating Frequency:

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13030.00	Peak	Н	-	-	-71.78	21.08	0.00	56.30	68.20	-11.90
*	19545.00	Average	Н	-	-	-67.43	3.89	-9.54	33.92	53.98	-20.06
*	19545.00	Peak	Н	-	-	-58.50	3.89	-9.54	42.84	73.98	-31.14
	26060.00	Peak	Н	-	-	-58.66	5.87	-9.54	44.67	68.20	-23.53
	32575.00	Peak	Н	-	-	-58.92	7.72	-9.54	46.25	68.20	-21.95

Table 7-39. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 288 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 200 01 303



Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54

Distance of Measurements: 1 & 3 Meters Operating Frequency: 6535MHz

Channel: 117

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13070.00	Peak	Н	=	-	-71.25	21.38	0.00	57.13	68.20	-11.07
*	19605.00	Average	Н	-	-	-68.56	4.03	-9.54	32.92	53.98	-21.06
*	19605.00	Peak	Н	-	-	-58.75	4.03	-9.54	42.73	73.98	-31.25
	26140.00	Peak	Н	=	-	-58.99	6.01	-9.54	44.48	68.20	-23.72
	32675.00	Peak	Н	-	-	-58.45	7.97	-9.54	46.98	68.20	-21.22

Table 7-40. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax

Worst Case Transfer Rate: MCS0

RU Index: 54 Distance of Measurements: 1 & 3 Meters

Operating Frequency: 6695MHz

Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	13390.00	Average	Н	-	-	-83.14	21.13	0.00	44.99	53.98	-8.99
*	13390.00	Peak	Н	=	=	-71.96	21.13	0.00	56.17	73.98	-17.81
*	20085.00	Average	Н	=	-	-67.61	4.30	-9.54	34.15	53.98	-19.83
*	20085.00	Peak	Н	-	-	-58.38	4.30	-9.54	43.38	73.98	-30.60
	26780.00	Peak	Н	-	-	-58.82	5.85	-9.54	44.49	68.20	-23.71
Ī	33475.00	Peak	Н	=	-	-58.61	8.43	-9.54	47.28	68.20	-20.92

Table 7-41. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 289 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 209 01 303



Channel:

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6875MHz

185

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13750.00	Peak	Н	-	-	-71.11	21.83	0.00	57.72	68.20	-10.48
*	20625.00	Average	Н	-	-	-68.23	4.46	-9.54	33.69	53.98	-20.29
*	20625.00	Peak	Н	-	ı	-58.01	4.46	-9.54	43.91	73.98	-30.07
	27500.00	Peak	Н	=	=	-56.88	5.93	-9.54	46.51	68.20	-21.69
	34375.00	Peak	Н	-	=	-58.65	8.44	-9.54	47.25	68.20	-20.95

Table 7-42. Radiated Measurements MIMO (106 Tones)

802.11ax Worst Case Mode: Worst Case Transfer Rate: MCS0 RU Index: 54 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6895MHz Channel: 189

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13790.00	Peak	Н	-	-	-71.12	22.57	0.00	58.45	68.20	-9.75
*	20685.00	Average	Н	-	-	-68.14	4.36	-9.54	33.67	53.98	-20.31
*	20685.00	Peak	Н	-	-	-57.36	4.36	-9.54	44.45	73.98	-29.53
	27580.00	Peak	Н	-	-	-58.24	5.96	-9.54	45.18	68.20	-23.02
	34475.00	Peak	Н	=	=	-57.68	8.49	-9.54	48.27	68.20	-19.93

Table 7-43. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 290 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 290 01 303



Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 6995MHz

Channel: 209

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13990.00	Peak	Н	-	-	-71.24	22.11	0.00	57.87	68.20	-10.33
*	20985.00	Average	Н	=	=	-68.35	4.70	-9.54	33.81	53.98	-20.17
*	20985.00	Peak	Н	=	-	-57.84	4.70	-9.54	44.32	73.98	-29.66
	27980.00	Peak	Н	=	-	-58.63	6.11	-9.54	44.94	68.20	-23.26
	34975.00	Peak	Н	=	=	-57.64	8.62	-9.54	48.43	68.20	-19.77

Table 7-44. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax

Worst Case Transfer Rate: MCS0

RU Index: 54

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 7115MHz

Channel: 233

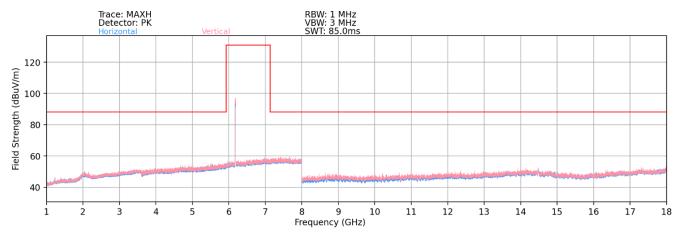
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	14230.00	Peak	Н	-	-	-71.67	21.73	0.00	57.06	68.20	-11.14
*	21345.00	Average	Н	-		-67.89	4.89	-9.54	34.46	53.98	-19.52
*	21345.00	Peak	Н	-	-	-57.42	4.89	-9.54	44.93	73.98	-29.05
	28460.00	Peak	Н	-	-	-59.20	6.26	-9.54	44.51	68.20	-23.69
	35575.00	Peak	Н	=	=	-57.83	8.54	-9.54	48.16	68.20	-20.04

Table 7-45. Radiated Measurements MIMO (106 Tones)

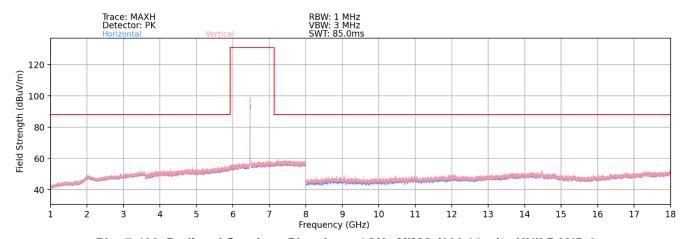
FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 291 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 291 01 303



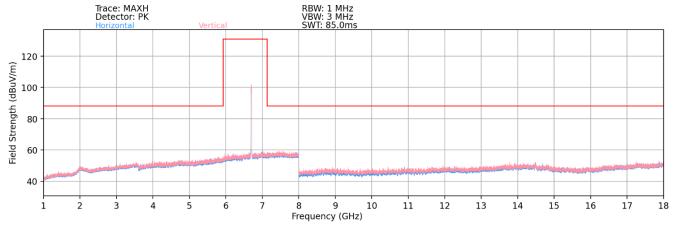
7.6.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-487. Radiated Spurious Plot above 1GHz MIMO (802.11ax) – UNII BAND 5



Plot 7-488. Radiated Spurious Plot above 1GHz MIMO (802.11ax) - UNII BAND 6



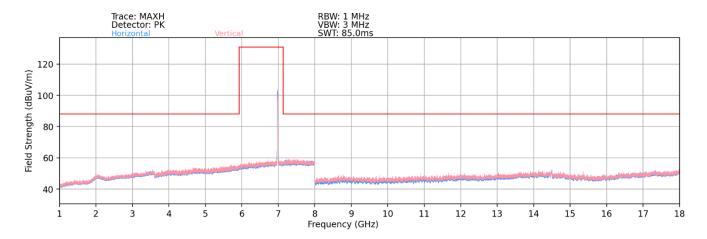
Plot 7-489. Radiated Spurious Plot above 1GHz MIMO (802.11ax) – UNII BAND 7

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 292 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 292 01 303

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Plot 7-490. Radiated Spurious Plot above 1GHz MIMO (802.11ax) - UNII BAND 8

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 293 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 293 01 303



MIMO (242 Tones) Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 5935MHz Channel: 2

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11870.00	Average	Н	-	-	-81.96	20.44	0.00	45.48	53.98	-8.50
*	11870.00	Peak	Н	-	-	-70.59	20.44	0.00	56.85	73.98	-17.13
*	17805.00	Average	Н	-	-	-83.71	26.31	0.00	49.60	53.98	-4.38
*	17805.00	Peak	Н	-	-	-71.99	26.31	0.00	61.32	73.98	-12.66
*	23740.00	Average	Н	-	-	-68.40	4.79	-9.54	33.85	53.98	-20.13
*	23740.00	Peak	Н	=	=	-58.59	4.79	-9.54	43.66	73.98	-30.32
	29675.00	Peak	Н	=	-	-58.62	7.24	-9.54	46.08	68.20	-22.12

Table 7-46. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6175MHz Channel: 45

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	12350.00	Average	Н	133	6	-80.86	21.02	0.00	47.16	53.98	-6.82
*	12350.00	Peak	Н	133	6	-69.15	21.02	0.00	58.87	73.98	-15.11
*	18525.00	Average	Н	-	1	-67.09	3.17	-9.54	33.54	53.98	-20.44
*	18525.00	Peak	Н	-	-	-57.51	3.17	-9.54	43.12	73.98	-30.86
	24700.00	Peak	Н	=	-	-57.80	5.18	-9.54	44.84	68.20	-23.36
	30875.00	Peak	Н	-	-	-59.36	7.86	-9.54	45.95	68.20	-22.25

Table 7-47. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 204 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 294 of 305



Channel:

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6415MHz

93

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Correction Factor [dB]	Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12830.00	Peak	Н	-	-	-70.66	21.25	0.00	57.59	68.20	-10.61
*	19245.00	Average	Н	-	-	-67.13	3.55	-9.54	33.88	53.98	-20.10
*	19245.00	Peak	Н	-	-	-57.43	3.55	-9.54	43.58	73.98	-30.40
	25660.00	Peak	Н	-	-	-58.46	5.47	-9.54	44.46	68.20	-23.74
	32075.00	Peak	Н	-	-	-58.80	8.18	-9.54	46.83	68.20	-21.37

Table 7-48. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 6435MHz

Channel: 97

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12870.00	Peak	Н	-	-	-70.85	21.23	0.00	57.38	68.20	-10.82
*	19305.00	Average	Н	-	-	-67.39	3.78	-9.54	33.85	53.98	-20.13
*	19305.00	Peak	Н	-	-	-57.72	3.78	-9.54	43.52	73.98	-30.46
	25740.00	Peak	Н	-	-	-58.29	5.73	-9.54	44.89	68.20	-23.31
	32175.00	Peak	Н	-	-	-57.84	8.19	-9.54	47.81	68.20	-20.39

Table 7-49. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 295 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Fage 295 01 505

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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6475MHz Channel: 105

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	12950.00	Peak	Н	-	-	-70.65	20.86	0.00	57.21	68.20	-10.99
*	19425.00	Average	Н	-	-	-67.45	3.82	-9.54	33.84	53.98	-20.14
*	19425.00	Peak	Н	-	ı	-57.96	3.82	-9.54	43.32	73.98	-30.66
	25900.00	Peak	Н	-	-	-58.92	5.87	-9.54	44.41	68.20	-23.79
	32375.00	Peak	Н	-	-	-58.66	7.89	-9.54	46.68	68.20	-21.52

Table 7-50. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6515MHz

Channel: 113

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13030.00	Peak	Н	-	-	-71.17	21.08	0.00	56.91	68.20	-11.29
*	19545.00	Average	Н	-	-	-67.68	3.89	-9.54	33.67	53.98	-20.31
*	19545.00	Peak	Н	-	-	-57.68	3.89	-9.54	43.67	73.98	-30.31
	26060.00	Peak	Н	-	-	-58.26	5.87	-9.54	45.07	68.20	-23.13
	32575.00	Peak	Н	-	-	-58.65	7.72	-9.54	46.53	68.20	-21.67

Table 7-51. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS908U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 206 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 296 of 305	

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Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6535MHz

Channel: 117

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13070.00	Peak	Н	-	-	-71.93	21.38	0.00	56.45	68.20	-11.75
*	19605.00	Average	Н	-	-	-67.59	4.03	-9.54	33.90	53.98	-20.08
*	19605.00	Peak	Н	-	ı	-57.13	4.03	-9.54	44.36	73.98	-29.62
	26140.00	Peak	Н	-	ī	-58.51	6.01	-9.54	44.96	68.20	-23.24
	32675.00	Peak	Н	-	=	-58.85	7.97	-9.54	46.58	68.20	-21.62

Table 7-52. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax

Worst Case Transfer Rate: MCS0

RU Index: 61

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 6695MHz

Channel: 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	13390.00	Average	Н	-	-	-83.11	21.13	0.00	45.02	53.98	-8.96
*	13390.00	Peak	Н	-	-	-71.81	21.13	0.00	56.32	73.98	-17.66
*	20085.00	Average	Н	-	-	-67.76	4.30	-9.54	34.00	53.98	-19.98
*	20085.00	Peak	Н	-	-	-57.47	4.30	-9.54	44.29	73.98	-29.69
	26780.00	Peak	Н	-	-	-58.76	5.85	-9.54	44.55	68.20	-23.65
	33475.00	Peak	Н	-	-	-58.06	8.43	-9.54	47.83	68.20	-20.37

Table 7-53. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 297 of 305	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	raye 297 01 305	



Channel:

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6875MHz

185

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13750.00	Peak	Н	-	-	-73.54	21.83	0.00	55.29	68.20	-12.91
*	20625.00	Average	Н	-	-	-68.77	4.46	-9.54	33.15	53.98	-20.83
*	20625.00	Peak	Н		ı	-58.64	4.46	-9.54	43.27	73.98	-30.70
	27500.00	Peak	Н	•	ı	-57.32	5.93	-9.54	46.06	68.20	-22.14
	34375.00	Peak	Н	-	-	-57.95	8.44	-9.54	47.95	68.20	-20.25

Table 7-54. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6895MHz Channel: 189

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13790.00	Peak	Н	-	-	-71.20	22.57	0.00	58.37	68.20	-9.83
*	20685.00	Average	Н	-	-	-68.23	4.36	-9.54	33.59	53.98	-20.39
*	20685.00	Peak	Н	-	-	-58.75	4.36	-9.54	43.07	73.98	-30.91
	27580.00	Peak	Н	-	-	-57.56	5.96	-9.54	45.85	68.20	-22.35
	34475.00	Peak	Н	-	-	-57.86	8.49	-9.54	48.09	68.20	-20.11

Table 7-55. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 205	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 298 of 305	



Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 Distance of Measurements: 1 & 3 Meters Operating Frequency: 6995MHz

Channel: 209

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	13990.00	Peak	Н	-	-	-71.35	22.11	0.00	57.76	68.20	-10.44
*	20985.00	Average	Н	-	-	-68.36	4.70	-9.54	33.80	53.98	-20.18
*	20985.00	Peak	Н	-	-	-58.76	4.70	-9.54	43.40	73.98	-30.58
	27980.00	Peak	Н	-	ı	-57.78	6.11	-9.54	45.80	68.20	-22.40
	34975.00	Peak	Н	-	-	-57.47	8.62	-9.54	48.61	68.20	-19.59

Table 7-56. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax Worst Case Transfer Rate: MCS0 RU Index: 61 1 & 3 Meters Distance of Measurements: Operating Frequency: 7115MHz Channel: 233

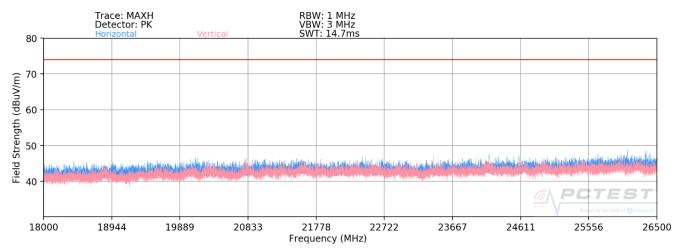
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	14230.00	Peak	Н	-	-	-71.21	21.73	0.00	57.52	68.20	-10.68
*	21345.00	Average	Н	-	ı	-67.88	4.89	-9.54	34.47	53.98	-19.51
*	21345.00	Peak	Н	-	ı	-57.73	4.89	-9.54	44.62	73.98	-29.36
	28460.00	Peak	н	-	ı	-57.33	6.26	-9.54	46.39	68.20	-21.81
	35575.00	Peak	Н	-	-	-57.20	8.54	-9.54	48.80	68.20	-19.40

Table 7-57. Radiated Measurements MIMO (242 Tones)

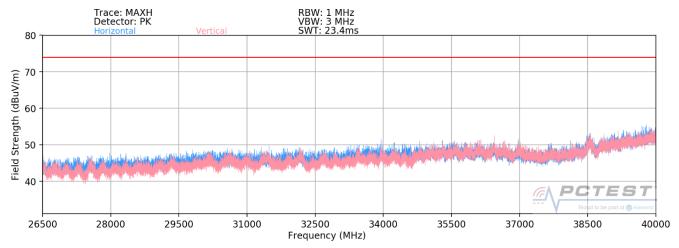
FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 299 of 305	
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	raye 299 01 305	



7.6.3 MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-491. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11ax)



Plot 7-492. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 300 of 305
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	rage 300 of 303

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7.6.4 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.5) §15.205 §15.209

106 Tones

Worst Case Mode:

Worst Case Transfer Rate:

RU Index

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

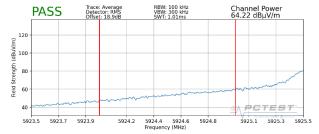
MCS0

53

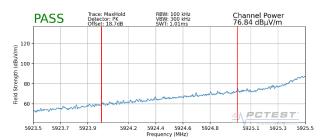
3 Meters

5935MHz

2



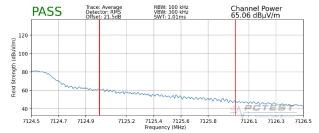
Plot 7-493. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



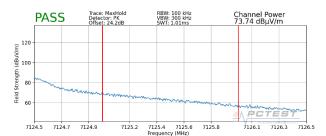
Plot 7-494. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
54
3 Meters
7115MHz
233



Plot 7-495. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-496. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMS908U	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 201 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 301 of 305



242 Tones

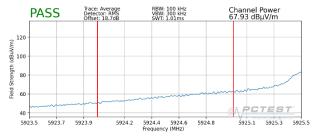
Worst Case Mode:

Worst Case Transfer Rate:

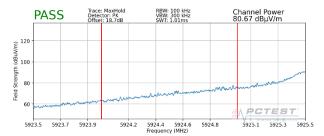
RU Index
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax

MCS0
61
3 Meters
5935MHz
2



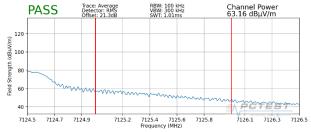
Plot 7-497. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



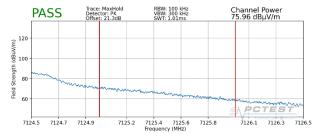
Plot 7-498. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:
Worst Case Transfer Rate:
RU Index
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
61
3 Meters
7115MHz
233



Plot 7-499. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-500. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMS908U	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 302 of 305
1M2109090102-14.A3L	9/9 – 11/18/2021	Portable Handset	Fage 302 01 305



7.6.5 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode:

Worst Case Transfer Rate:

RU Index

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax

MCS0

65

3 Meters

5965MHz

3



Plot 7-501. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax

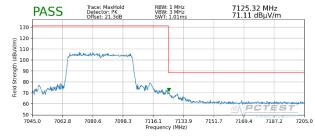
MCS0

65

3 Meters

7085MHz

227



Plot 7-502. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMS908U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 202 of 205
1M2109090102-14.A3L	9/9 - 11/18/2021	Portable Handset	Page 303 of 305
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