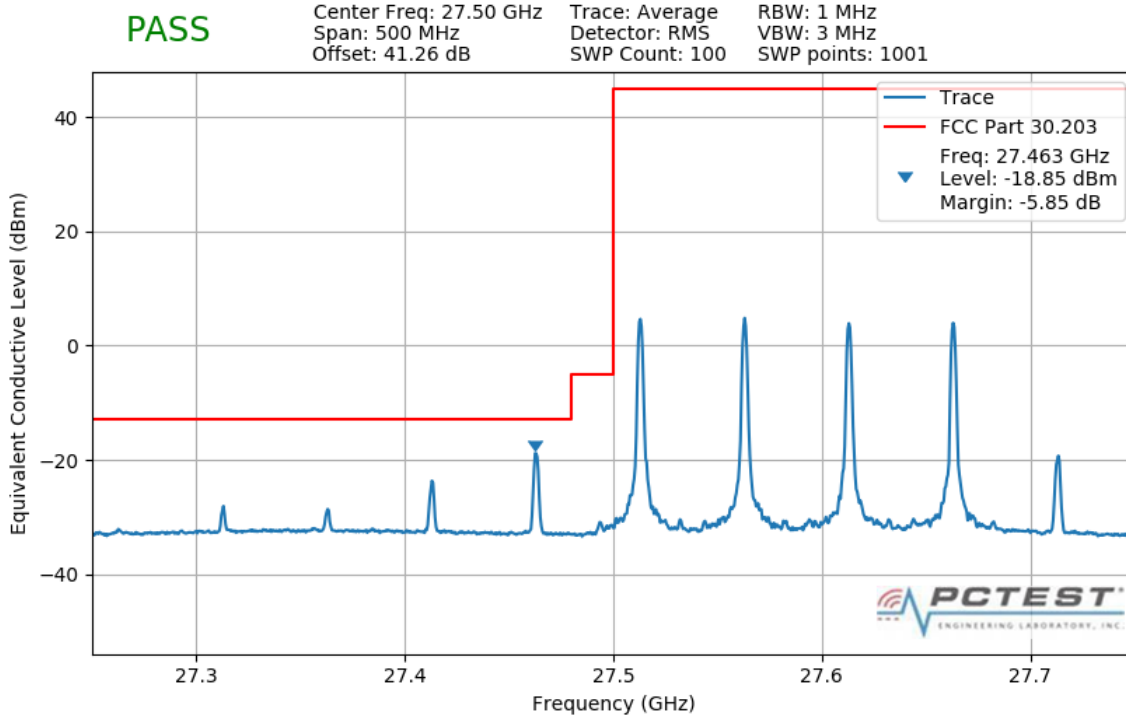
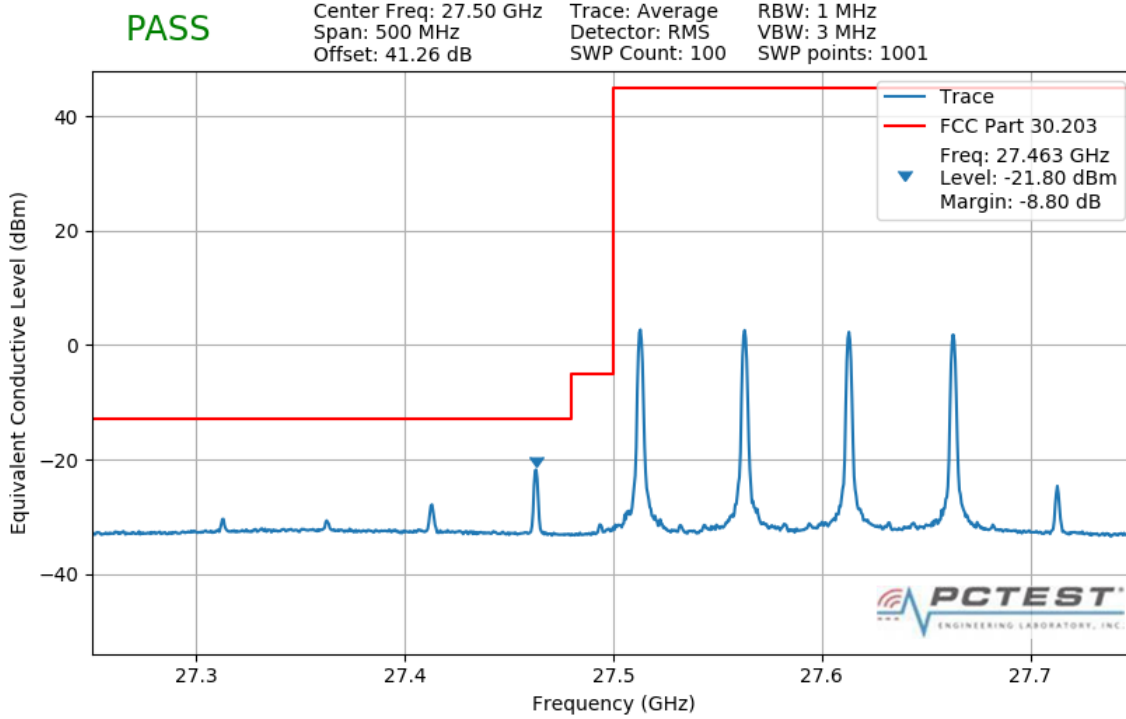


Plot 7-353. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)

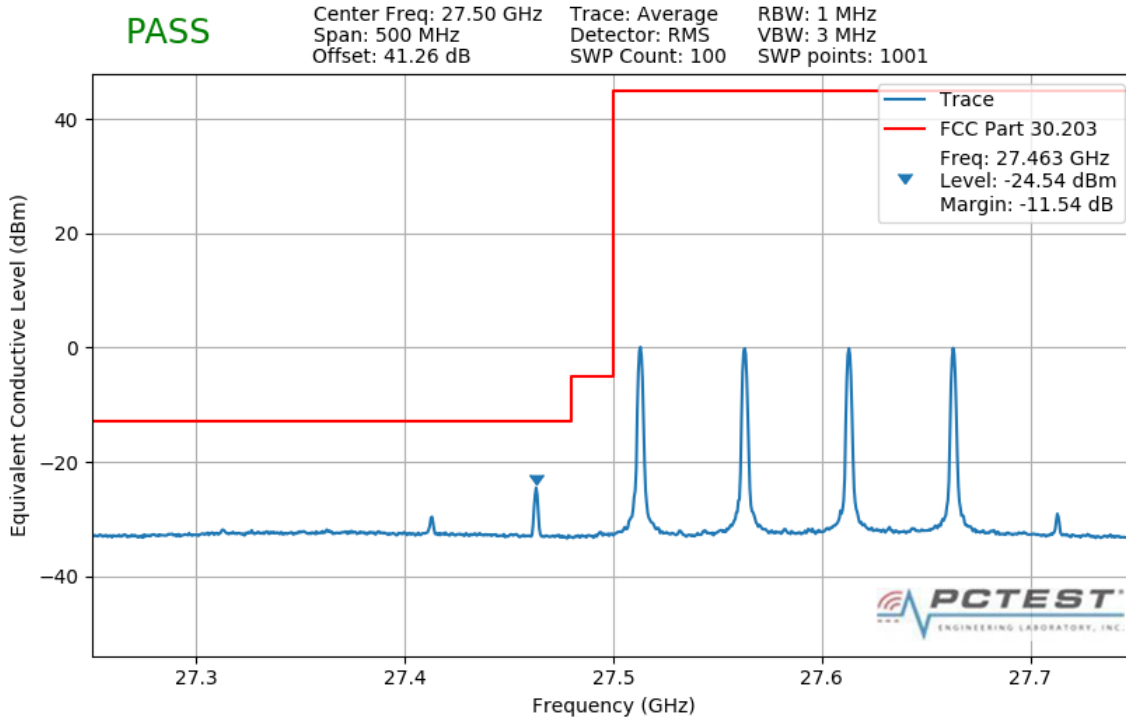


Plot 7-354. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 224 of 337

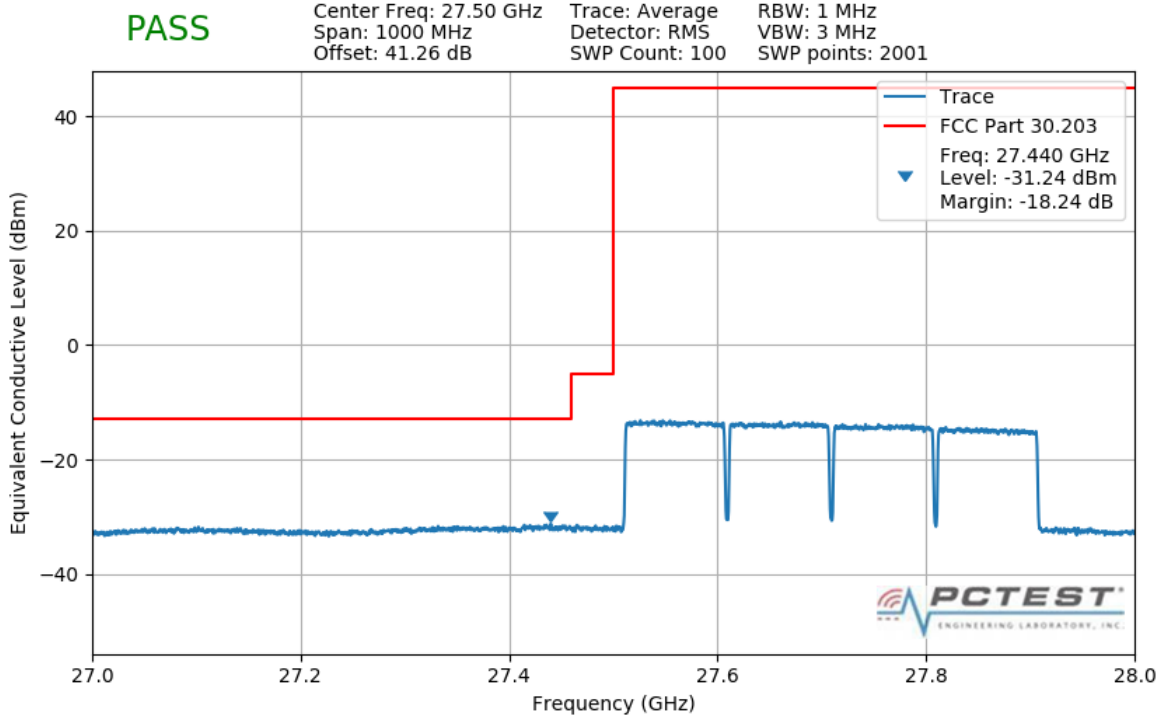


Plot 7-355. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)

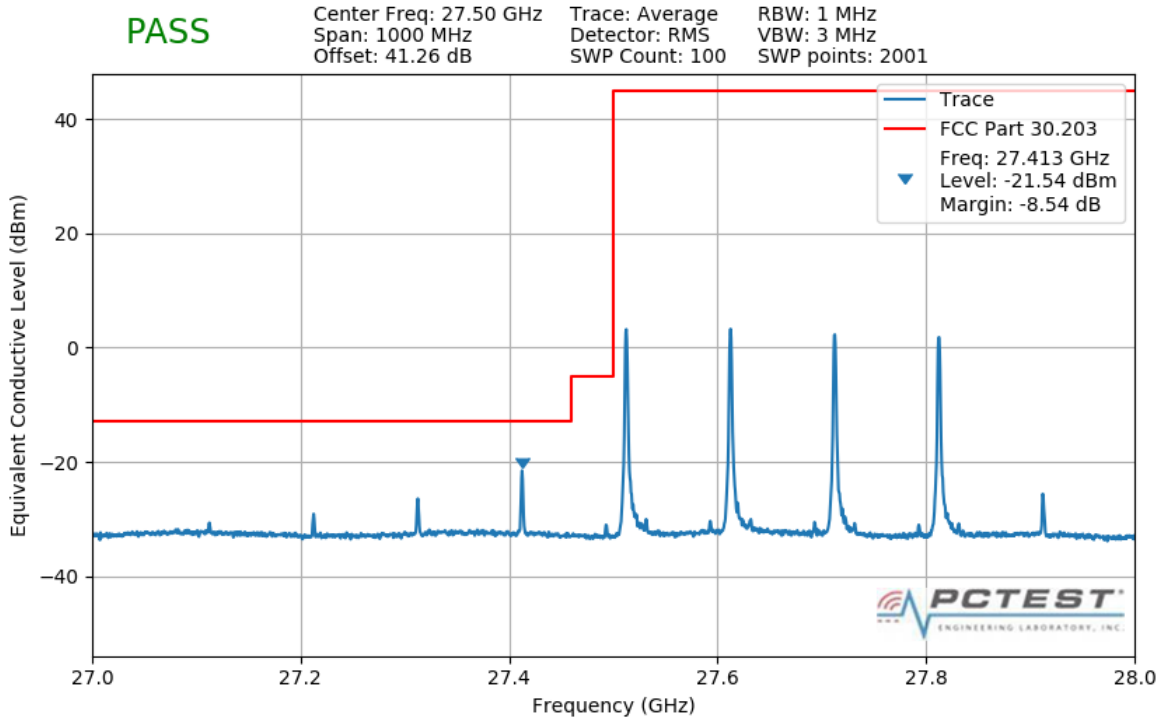


Plot 7-356. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 225 of 337

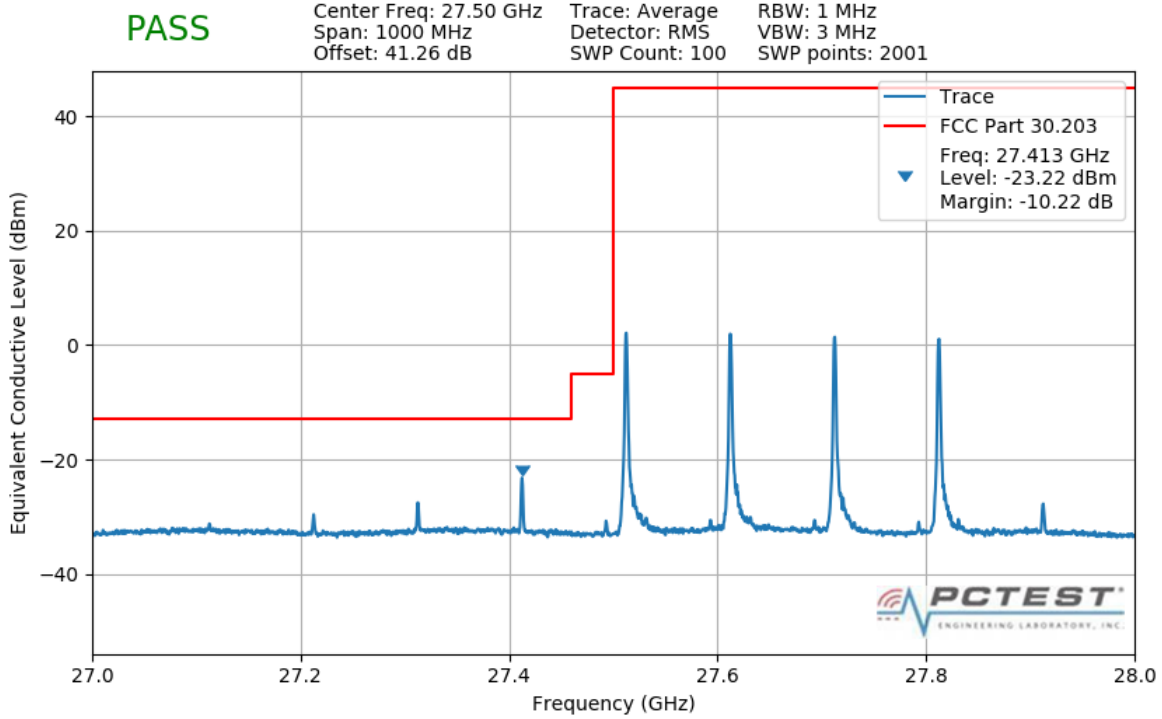


Plot 7-357. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)

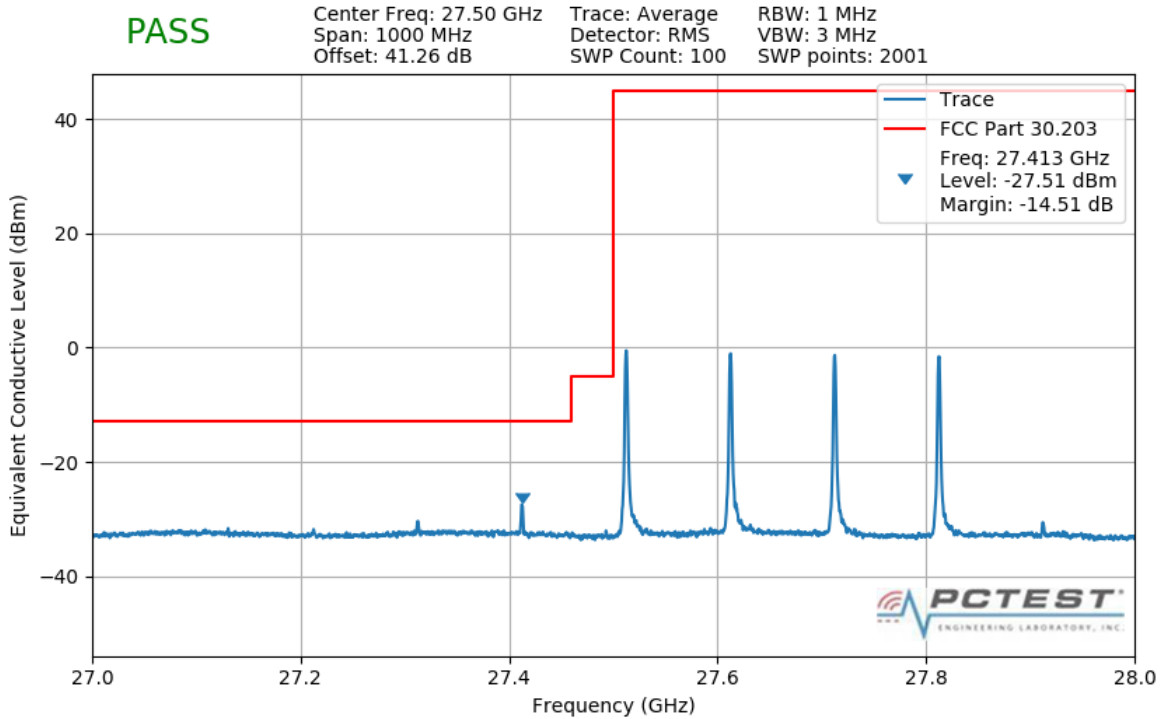


Plot 7-358. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 226 of 337

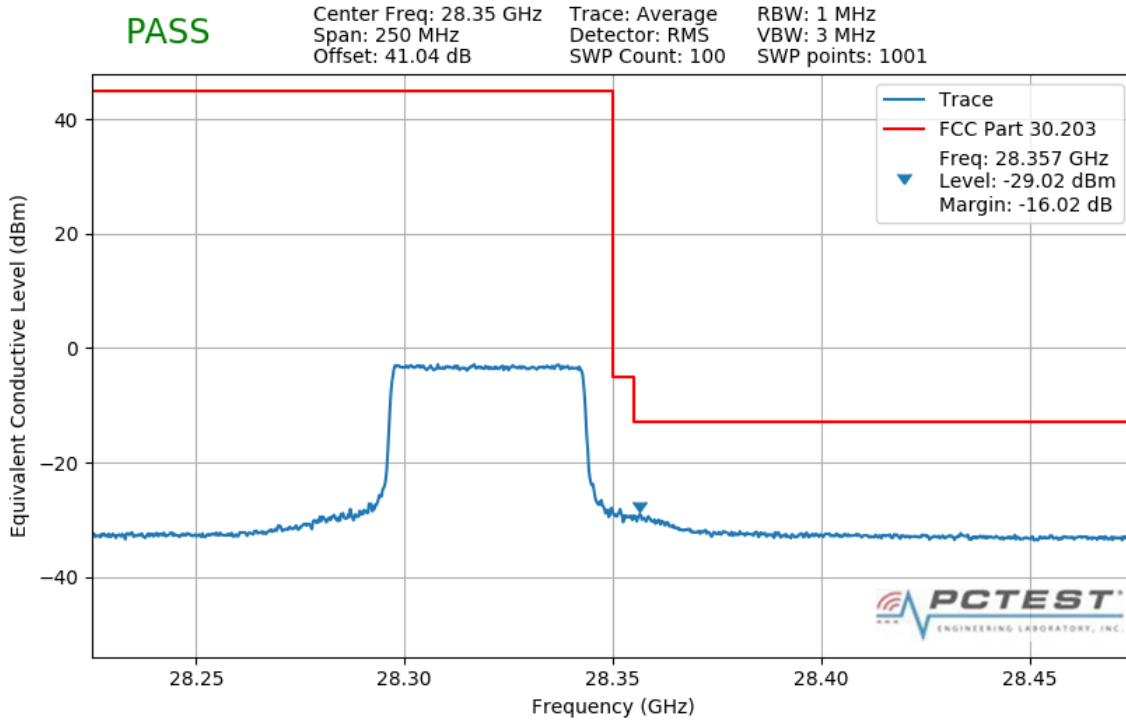


Plot 7-359. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)

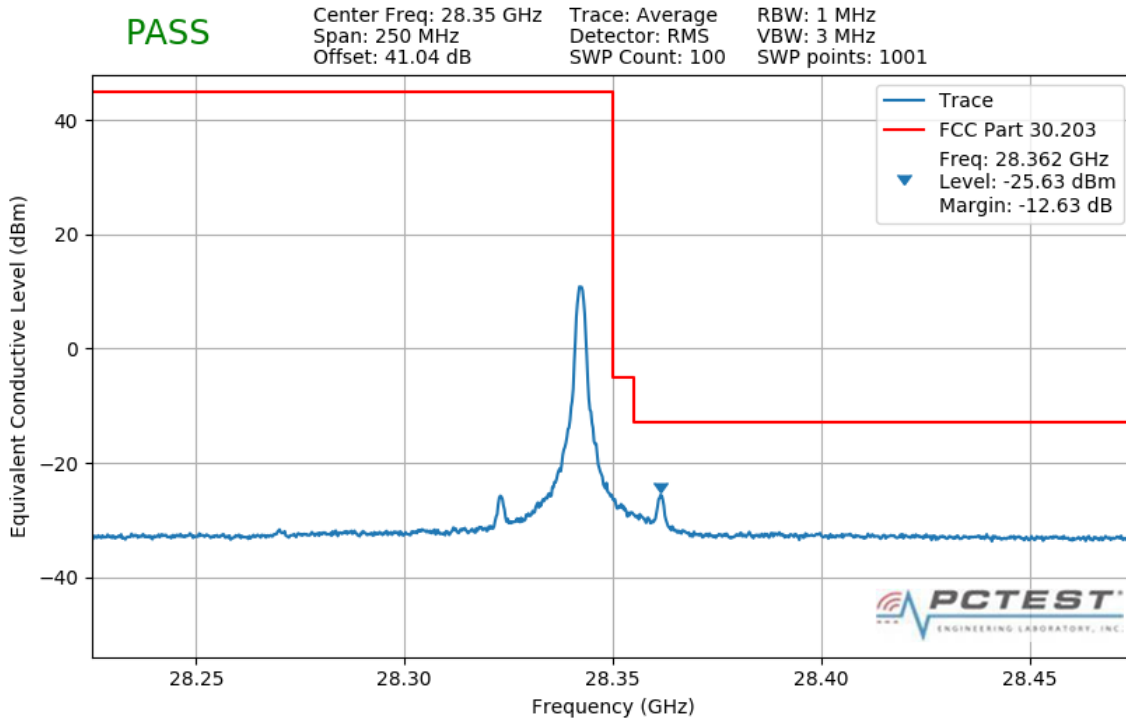


Plot 7-360. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 227 of 337

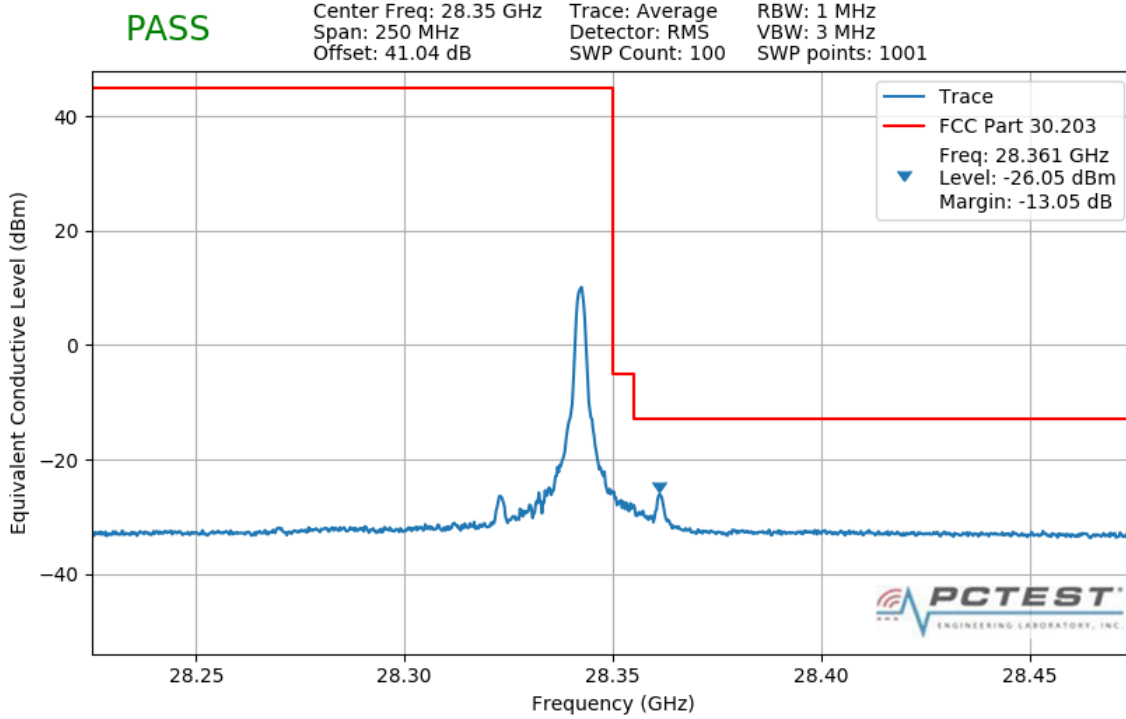


Plot 7-361. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)

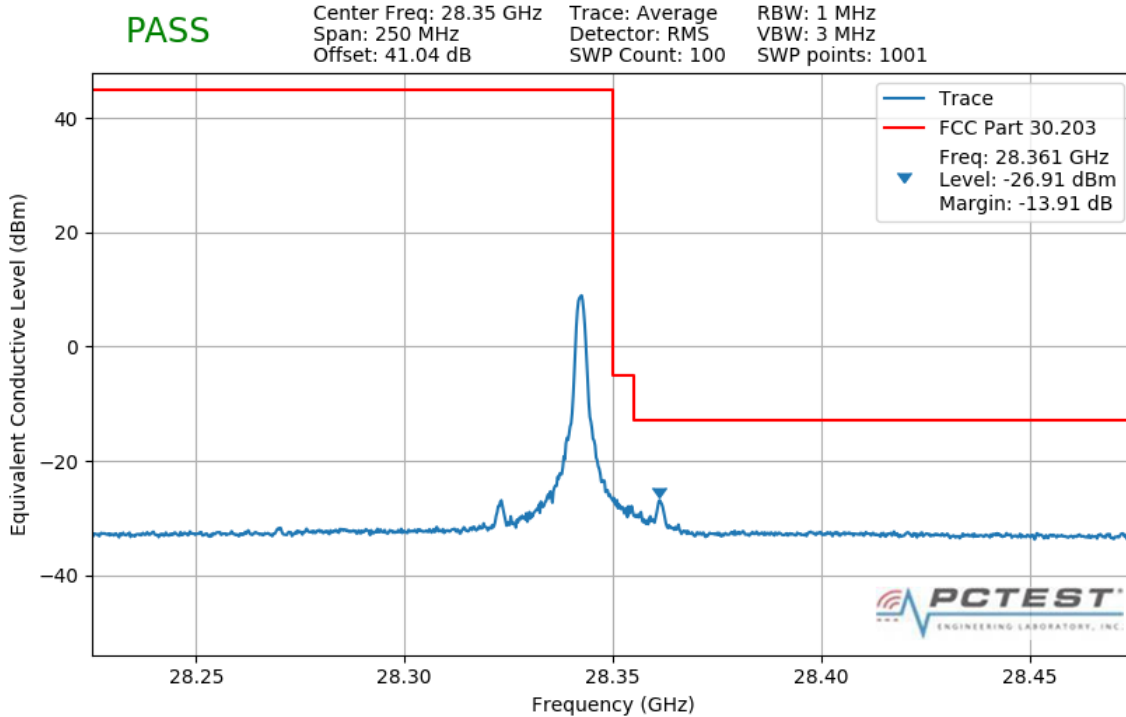


Plot 7-362. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 228 of 337

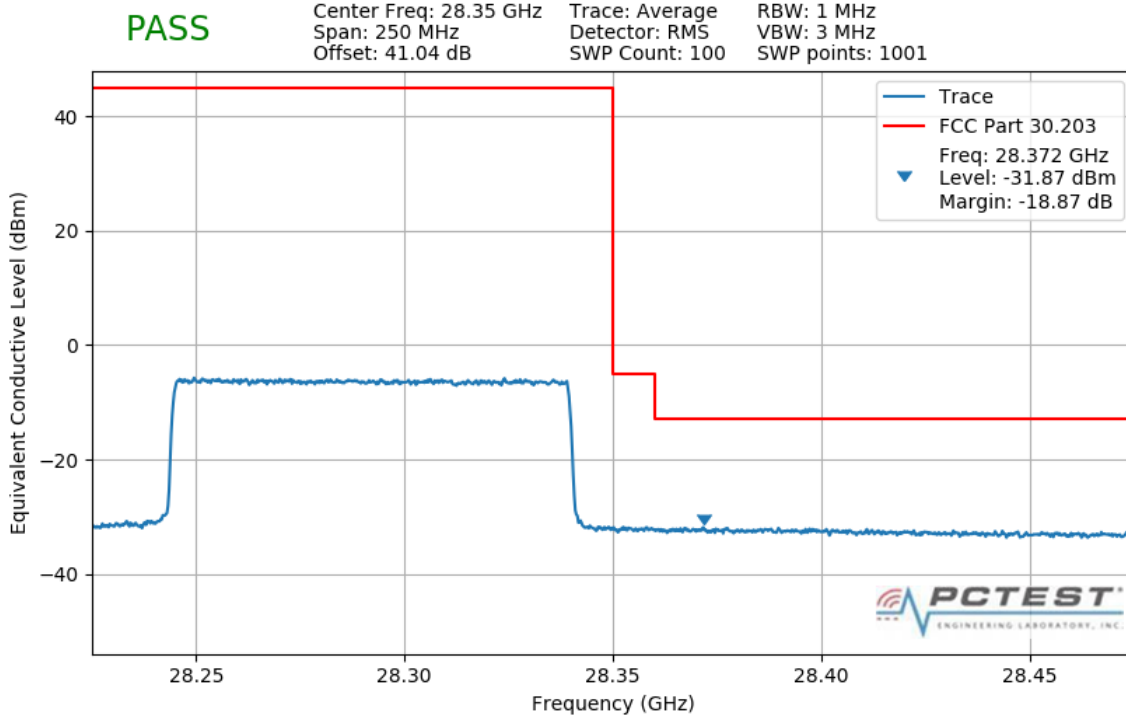


Plot 7-363. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)

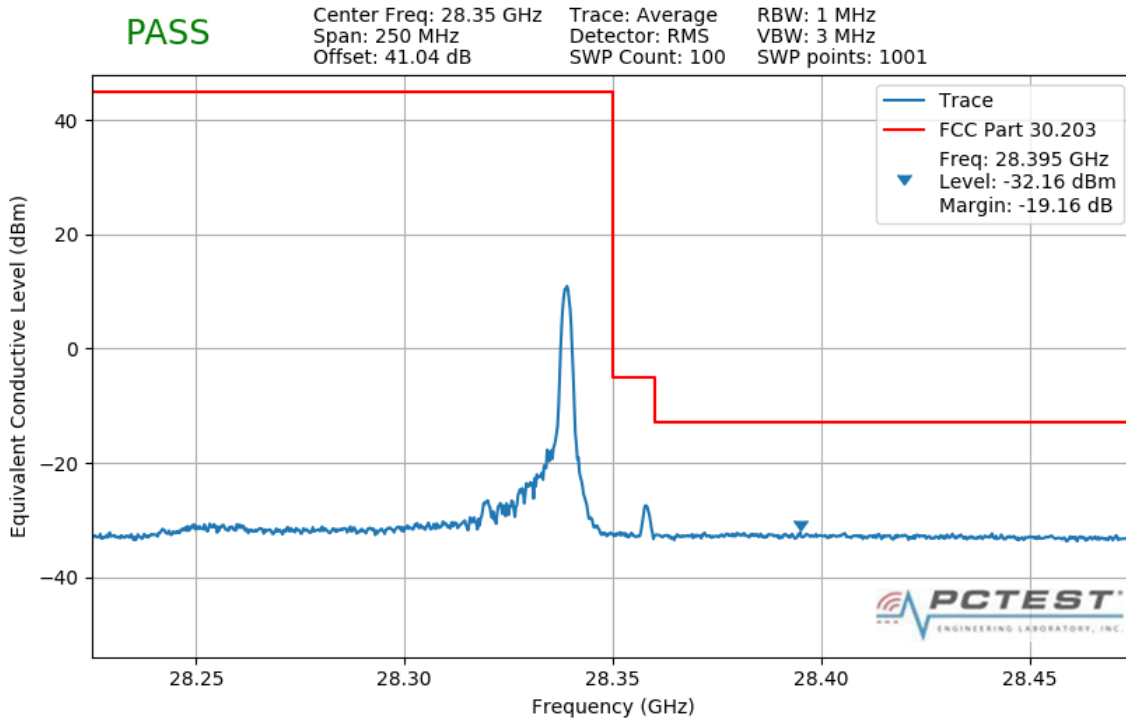


Plot 7-364. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 229 of 337

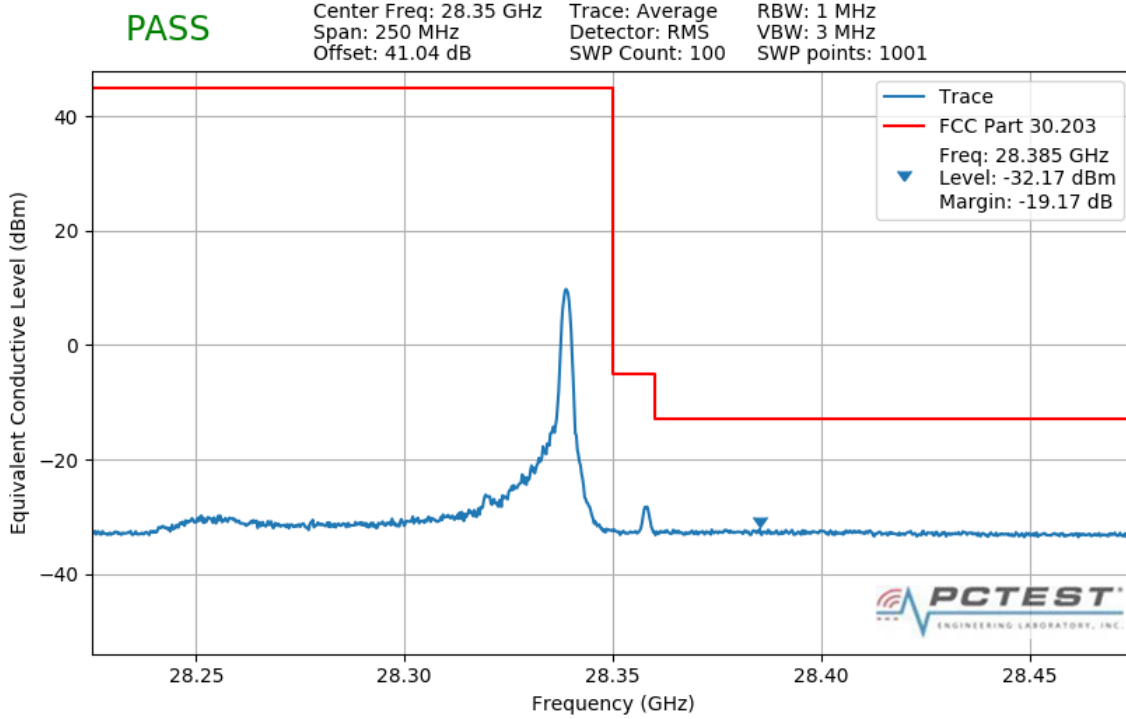


Plot 7-365. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)

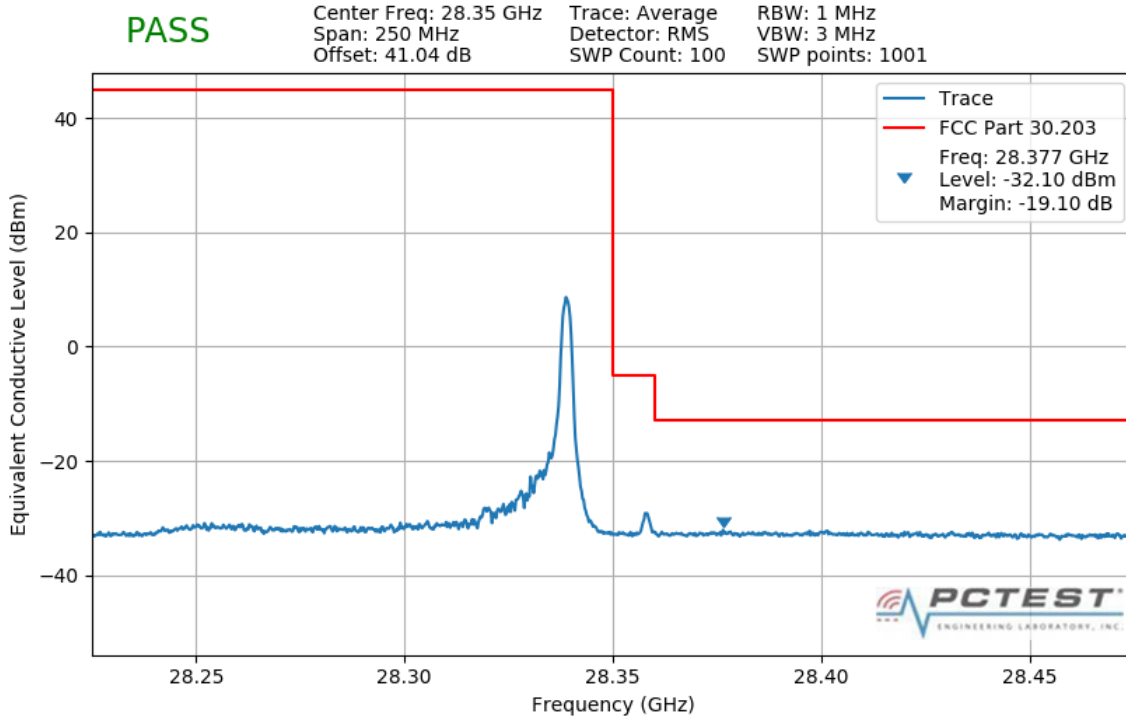


Plot 7-366. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 230 of 337

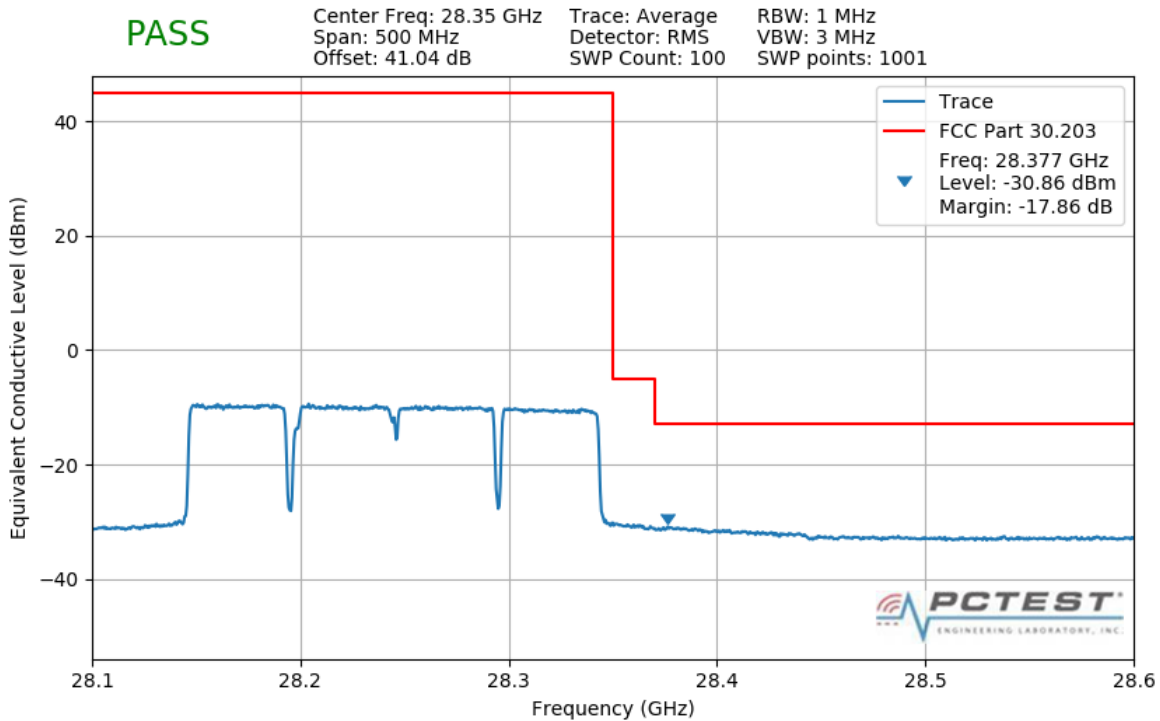


Plot 7-367. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)

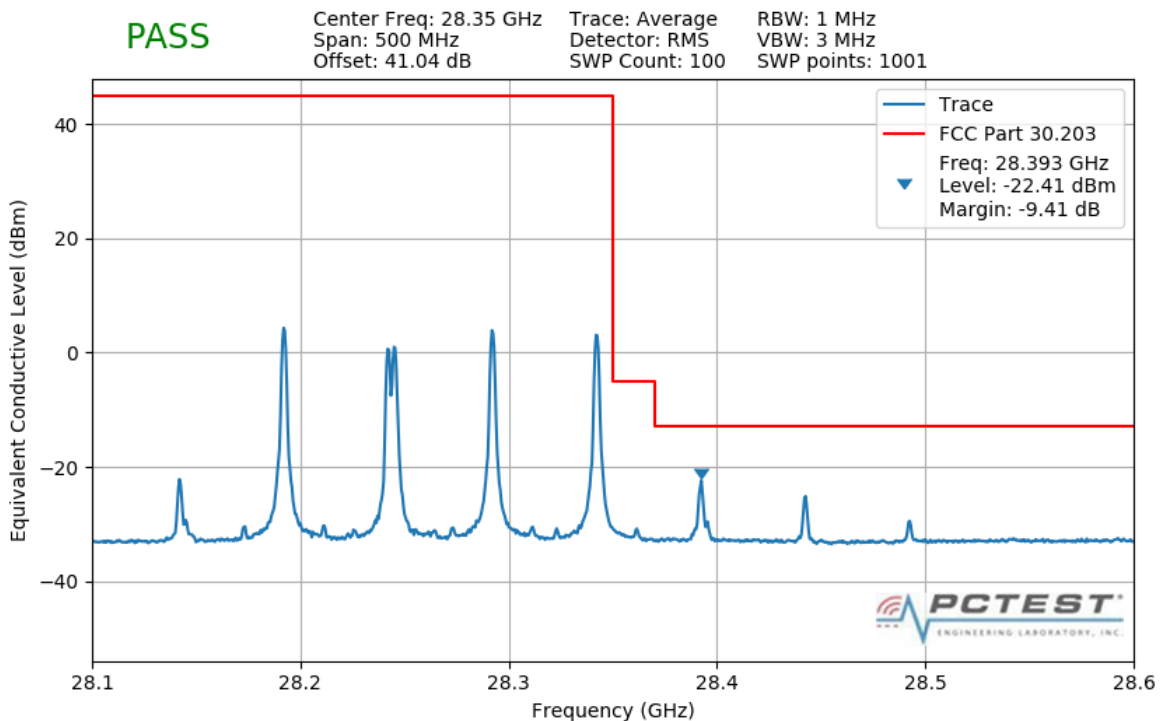


Plot 7-368. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 231 of 337

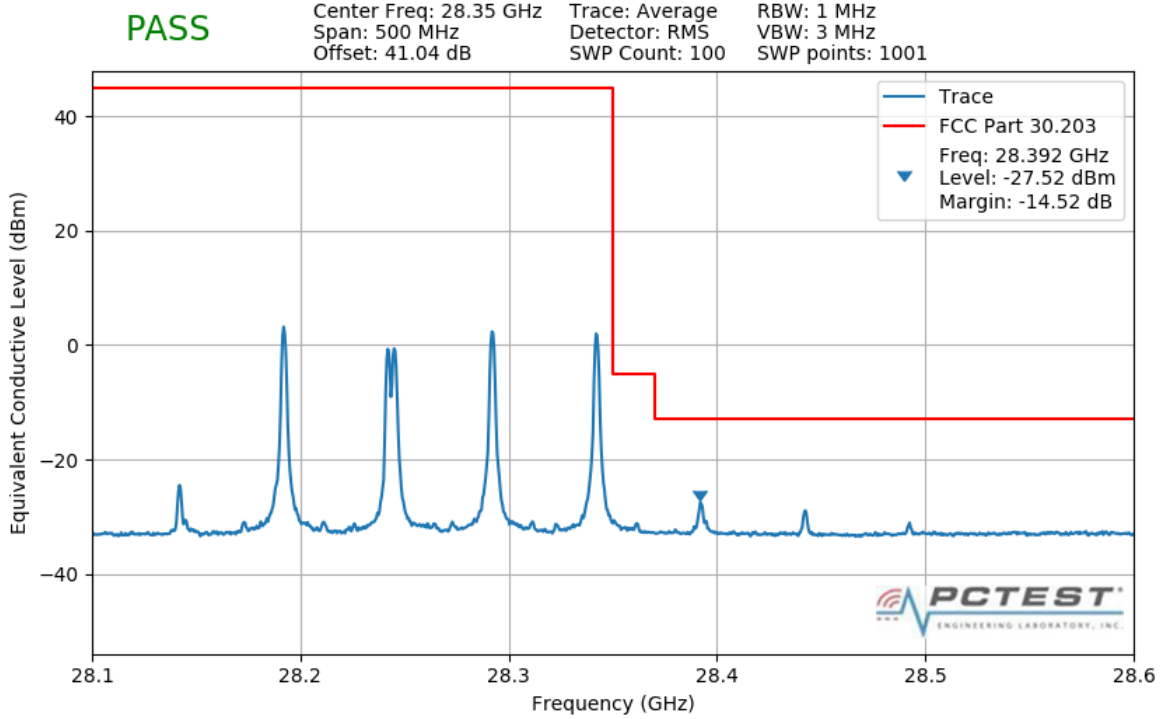


Plot 7-369. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)

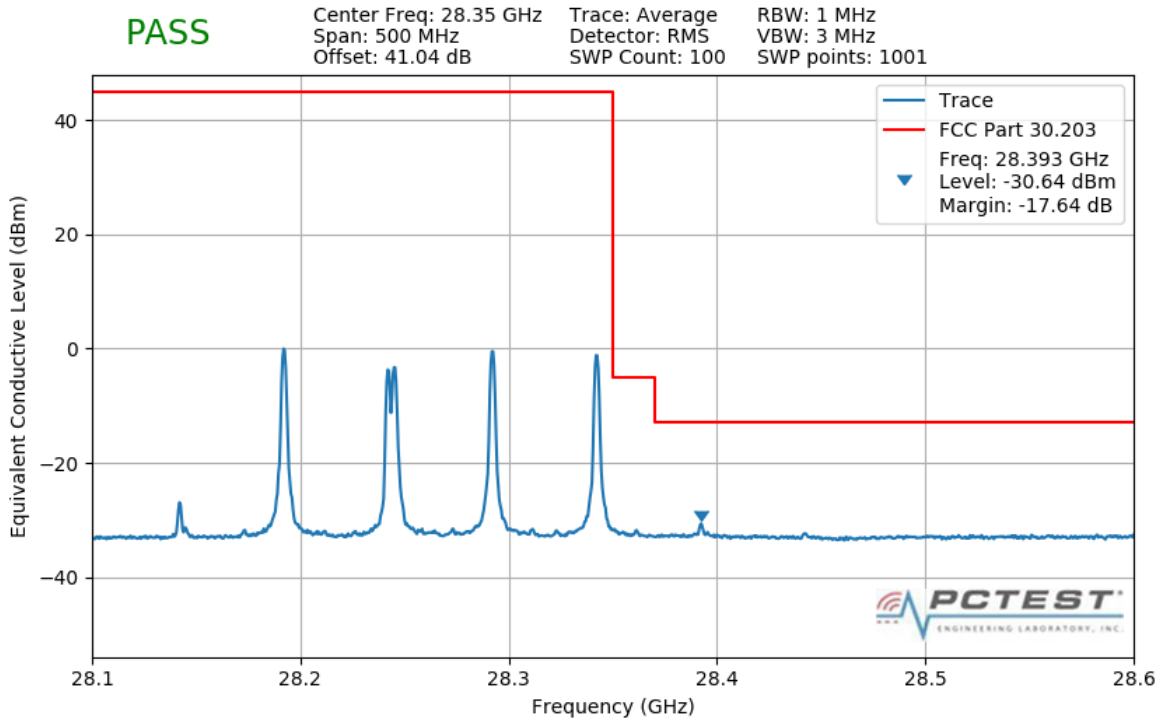


Plot 7-370. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset	Page 232 of 337

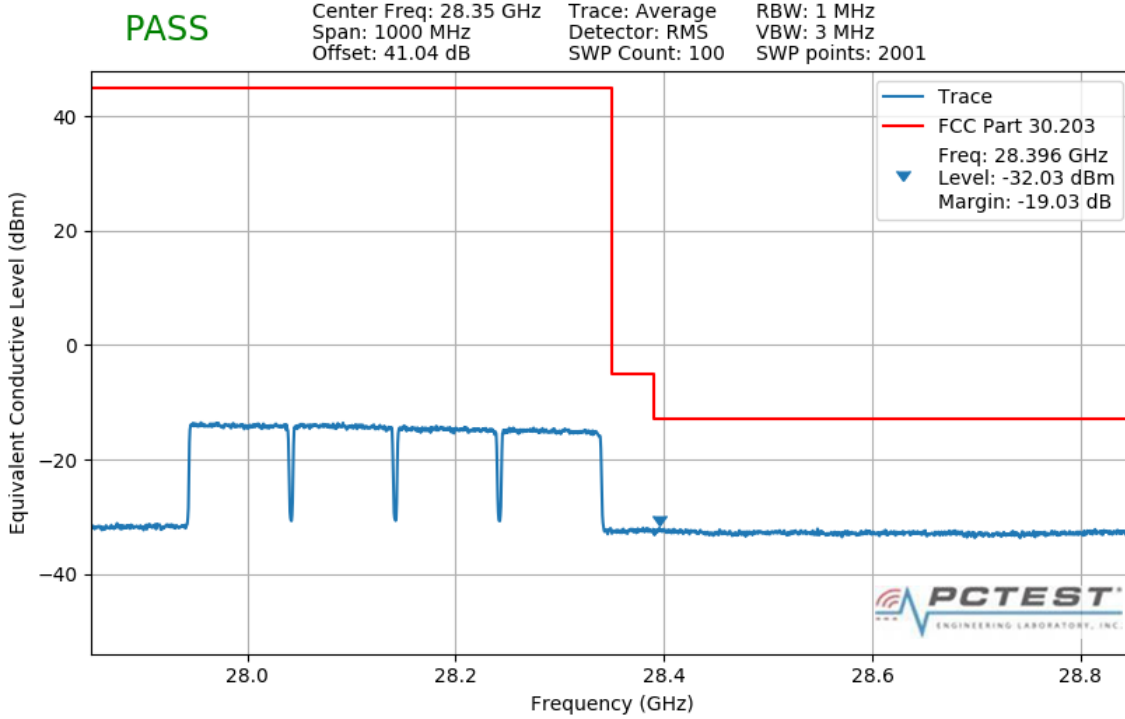


Plot 7-371. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)

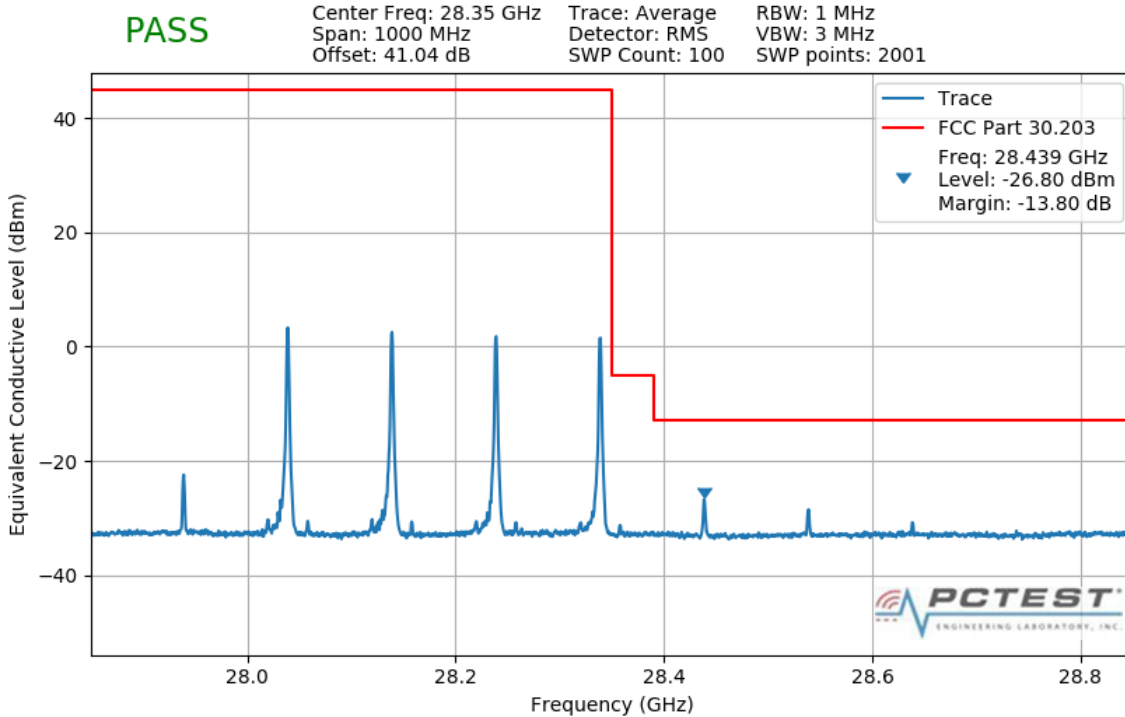


Plot 7-372. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 233 of 337

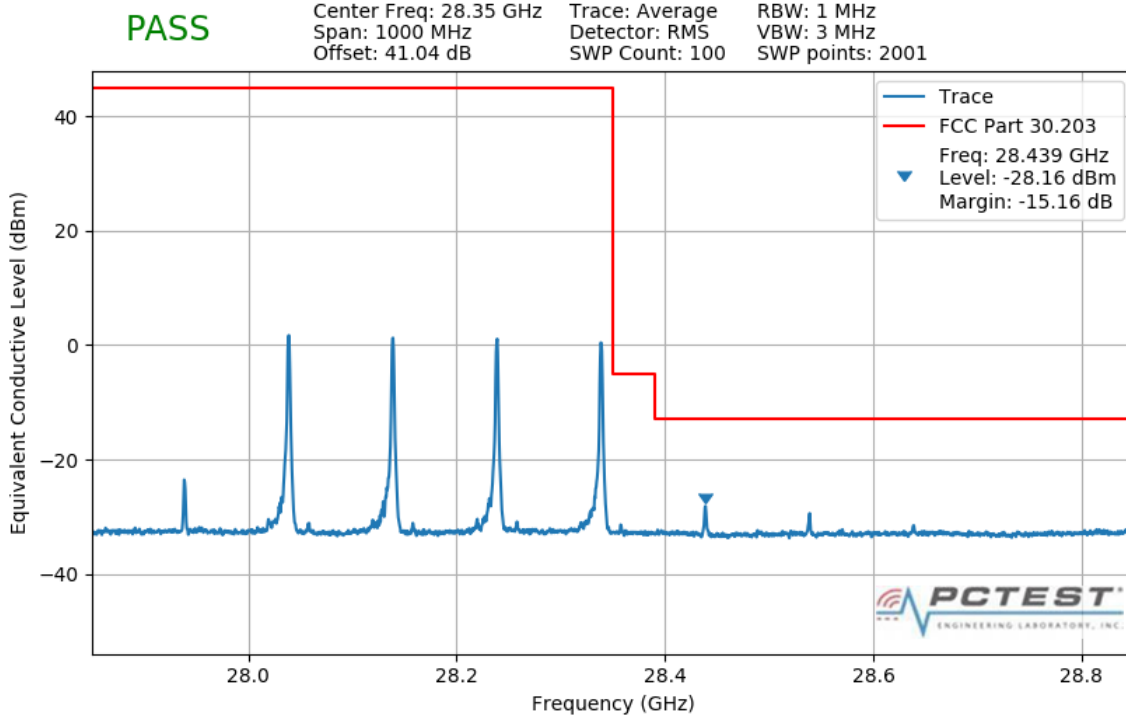


Plot 7-373. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)

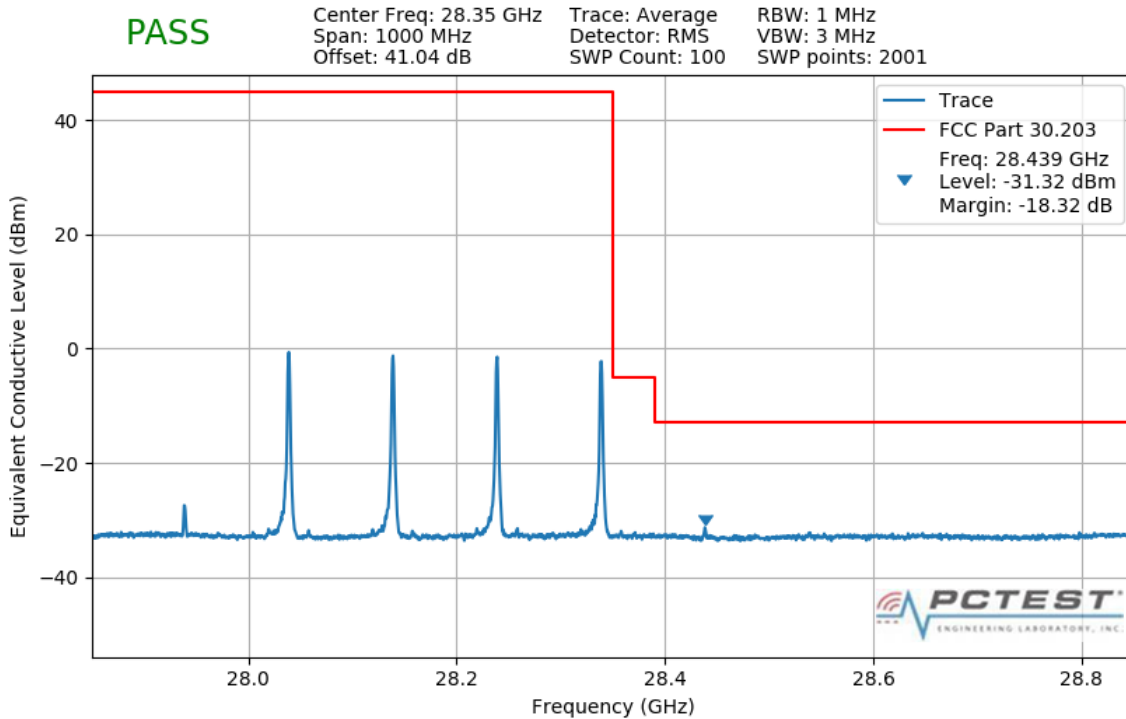


Plot 7-374. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset	Page 234 of 337



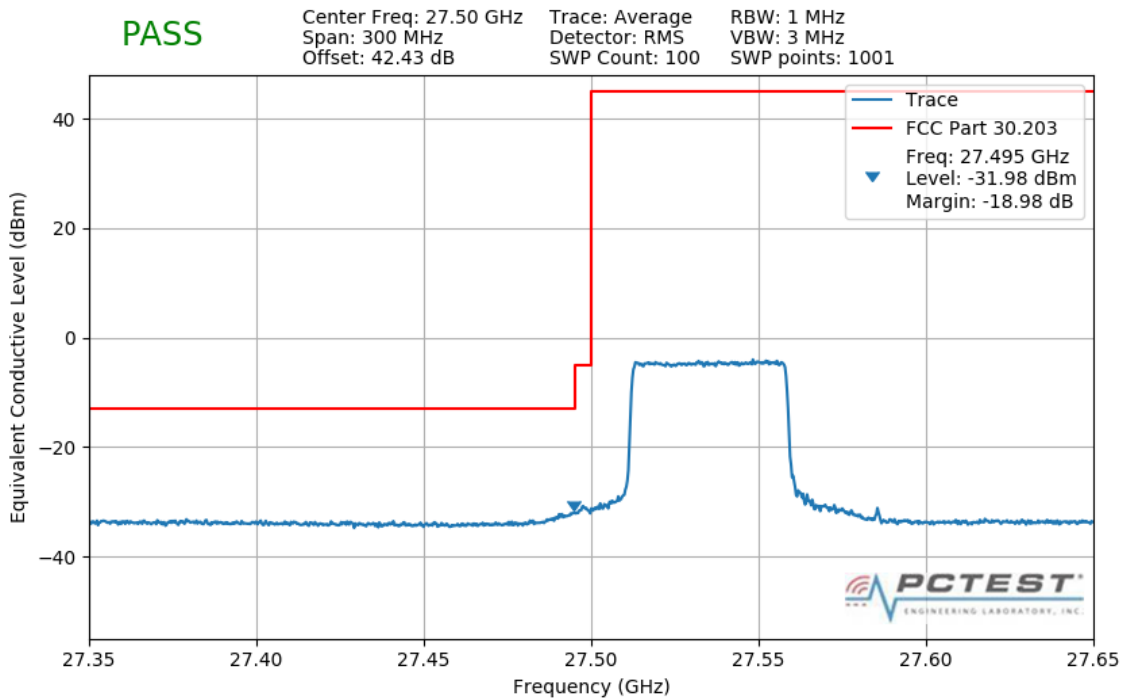
Plot 7-375. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



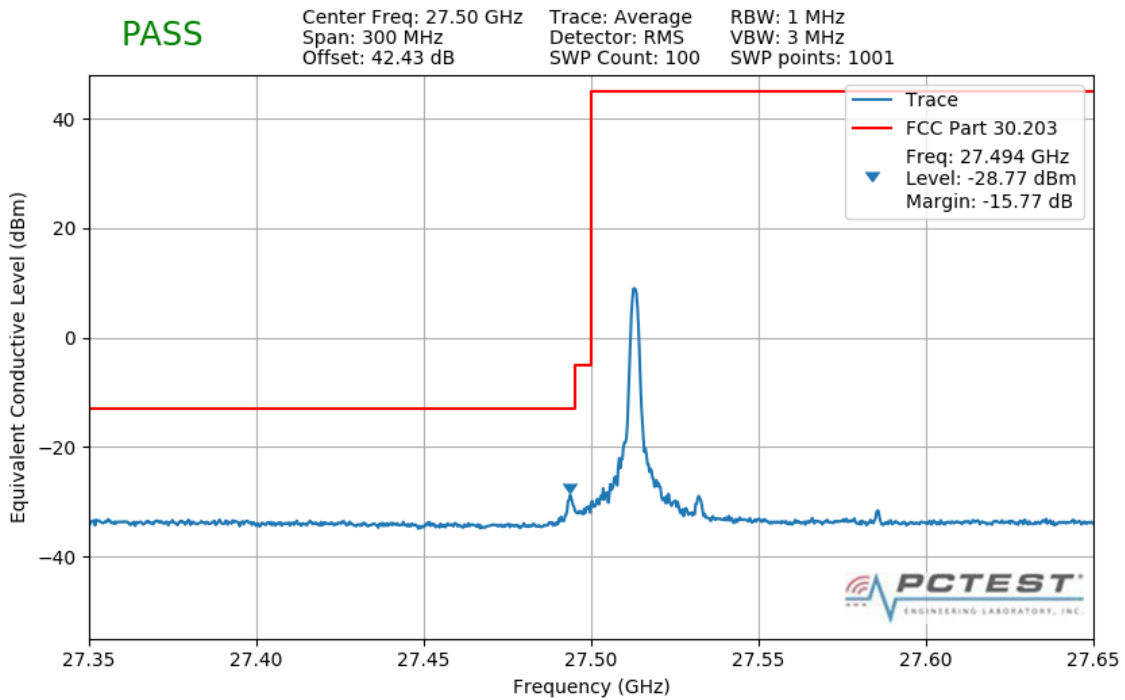
Plot 7-376. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 235 of 337

7.5.4 K Patch Band Edge H Beam

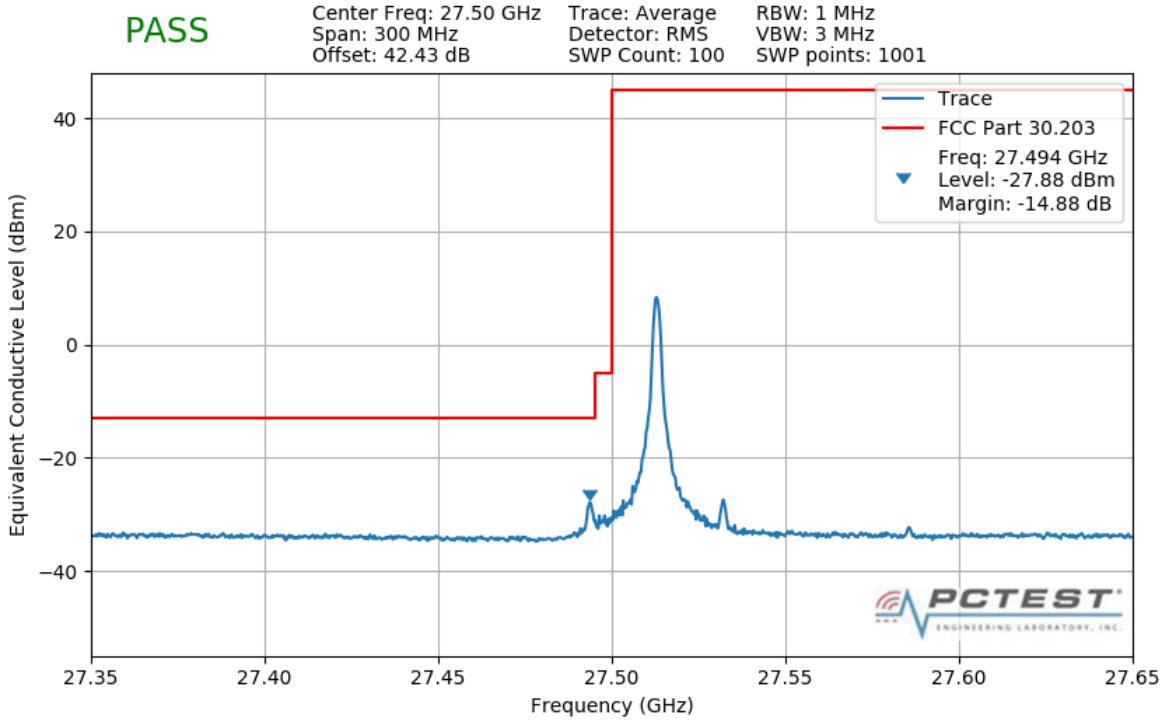


Plot 7-377. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)

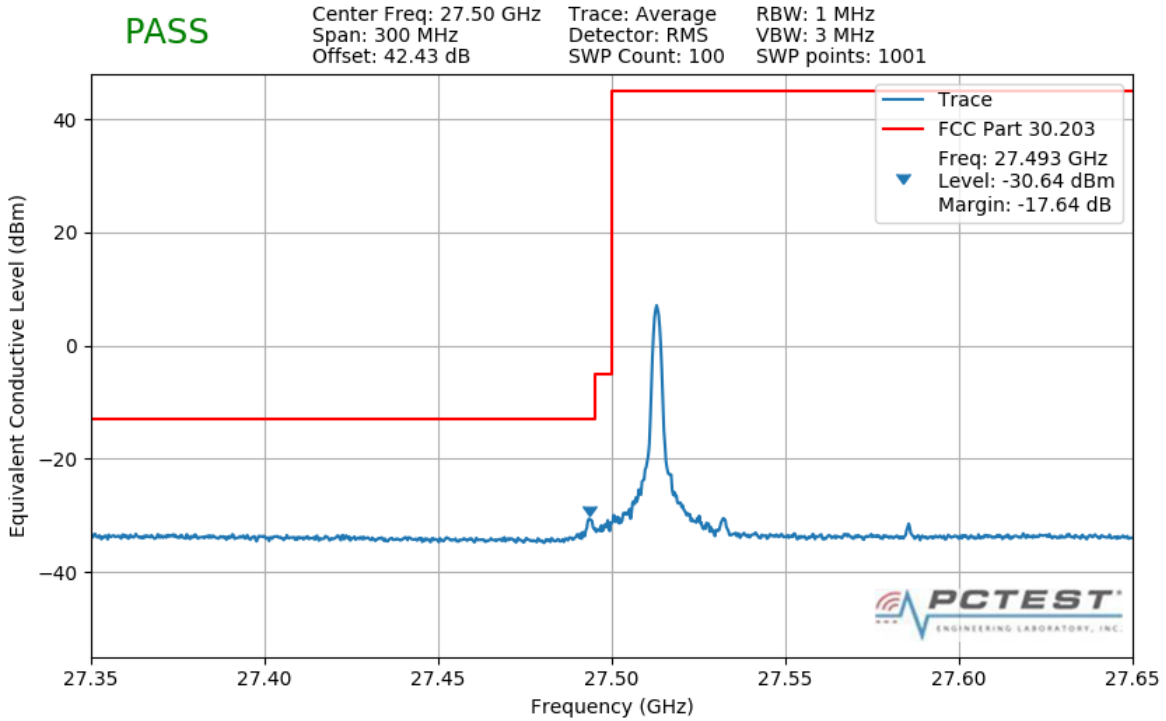


Plot 7-378. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 236 of 337

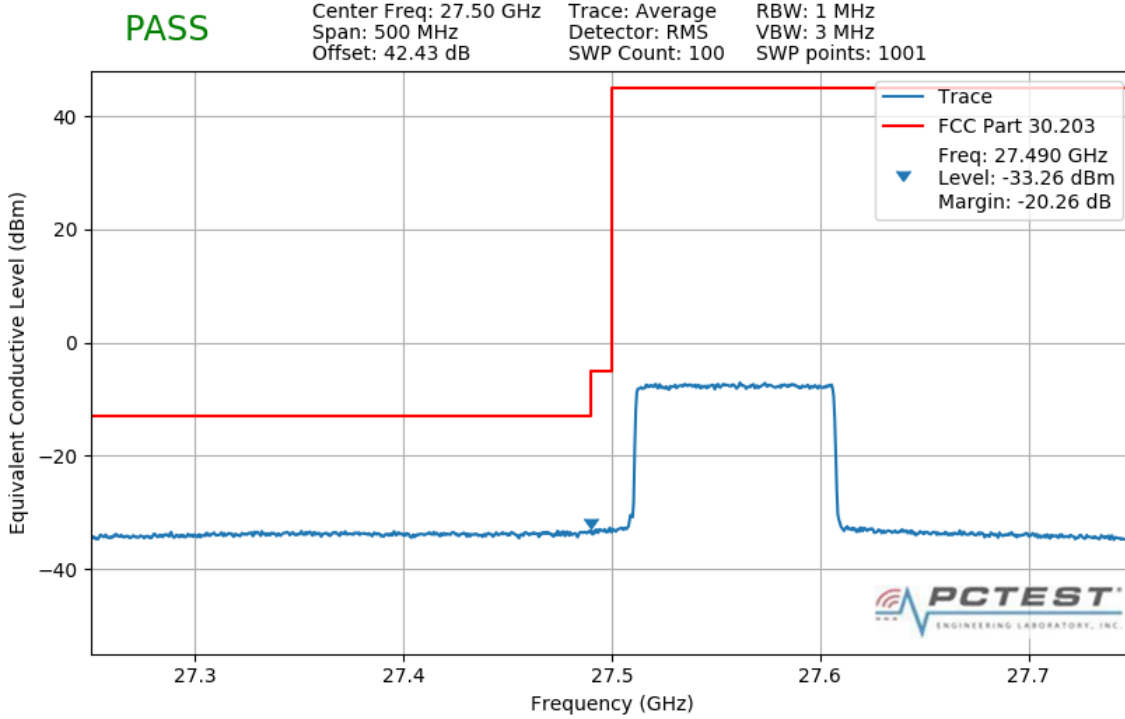


Plot 7-379. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)

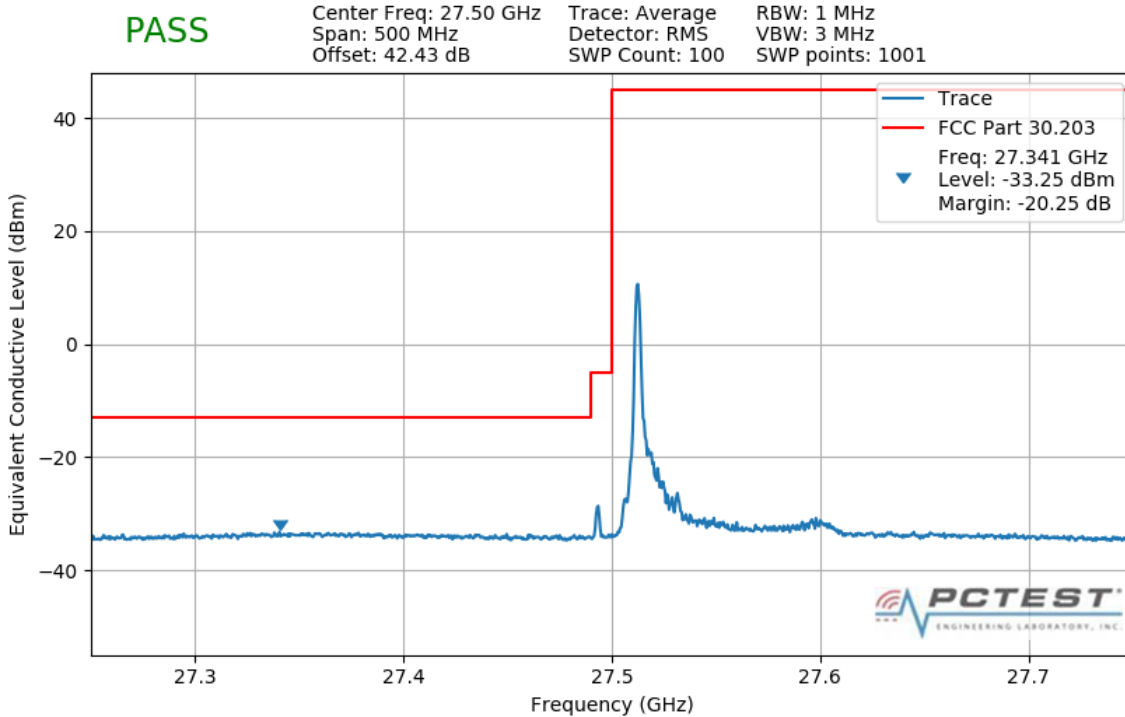


Plot 7-380. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 237 of 337

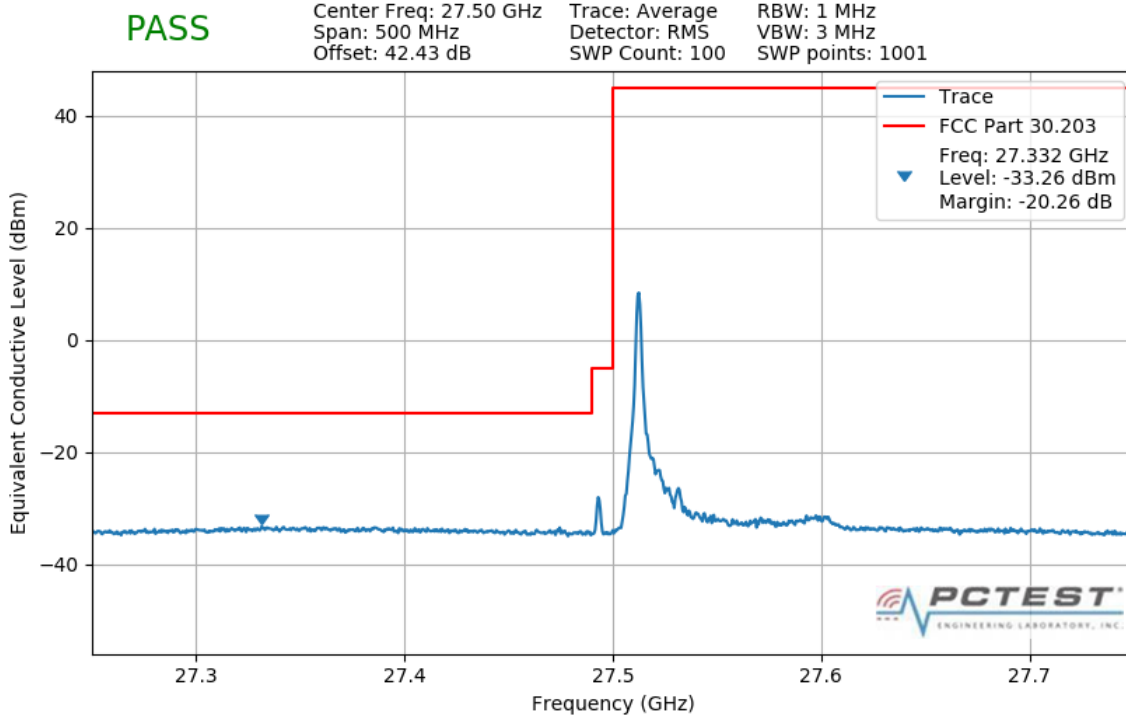


Plot 7-381. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)

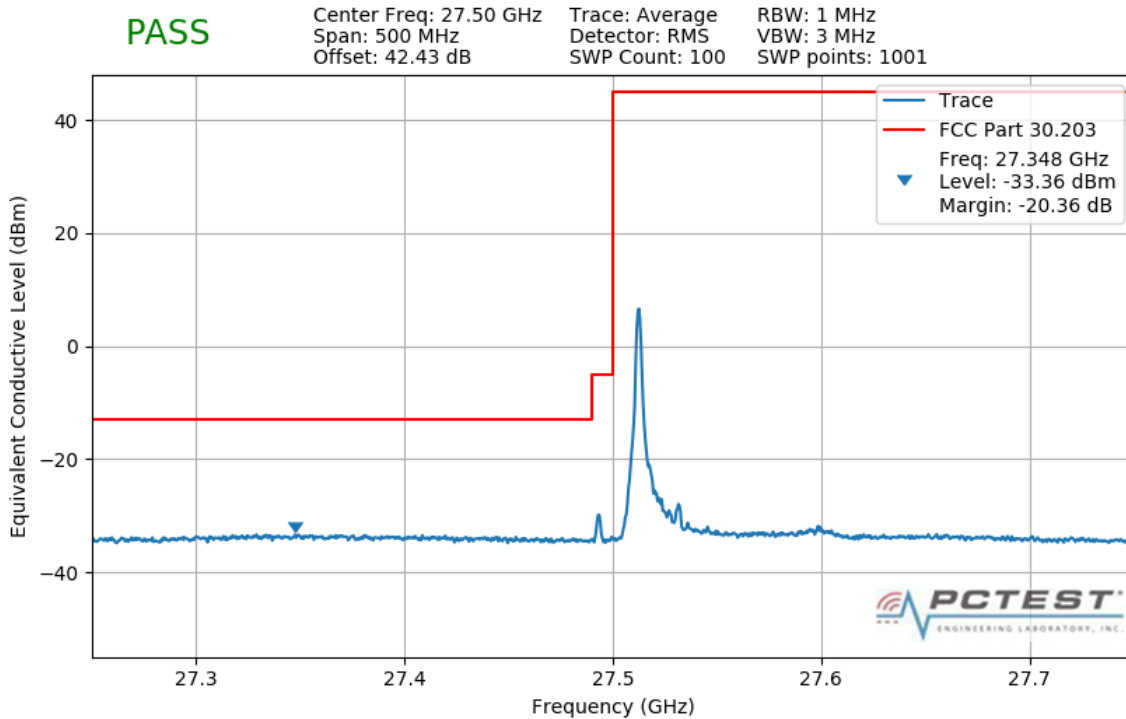


Plot 7-382. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 238 of 337

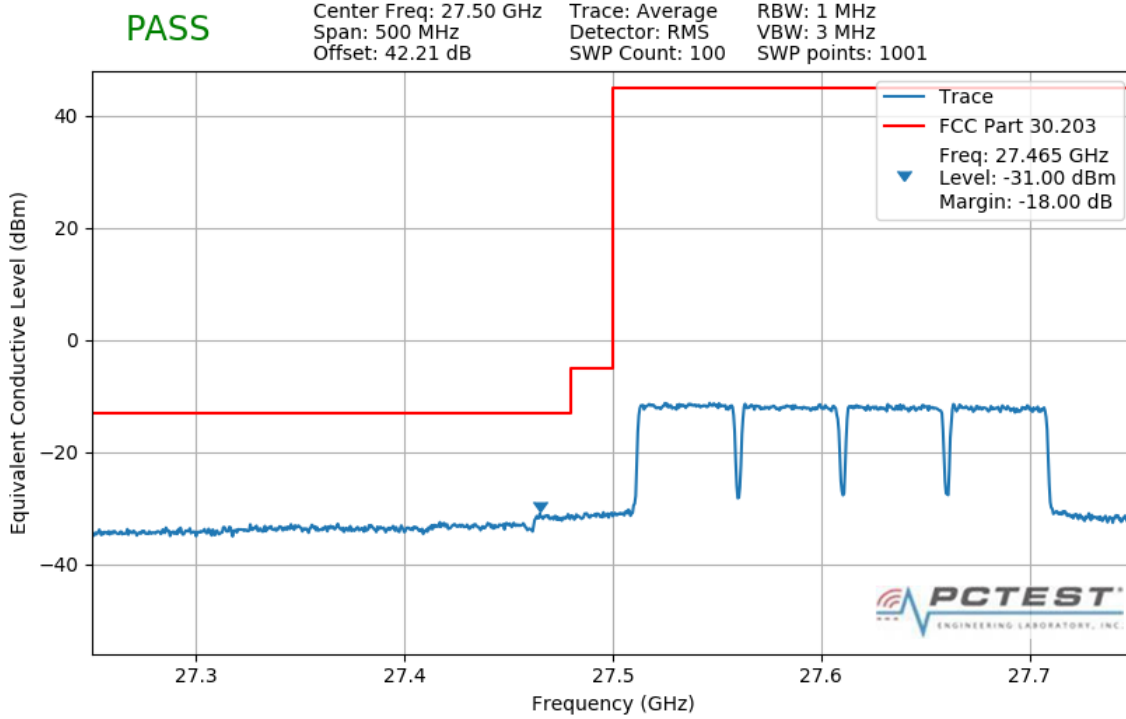


Plot 7-383. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)

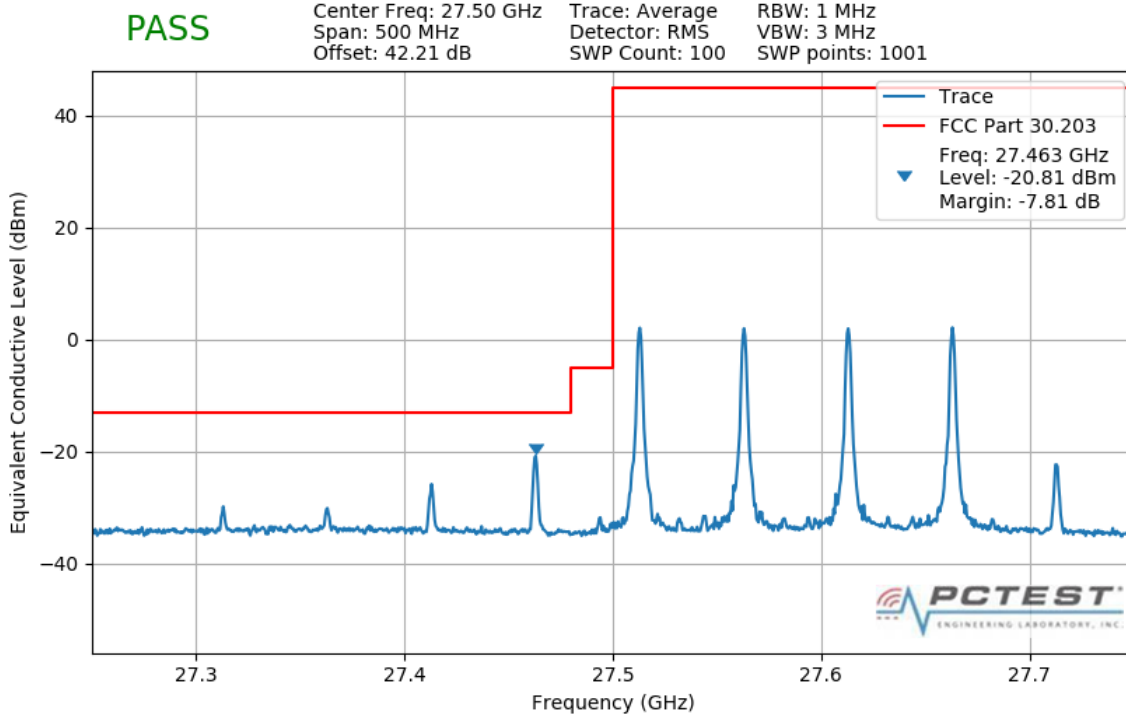


Plot 7-384. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 239 of 337

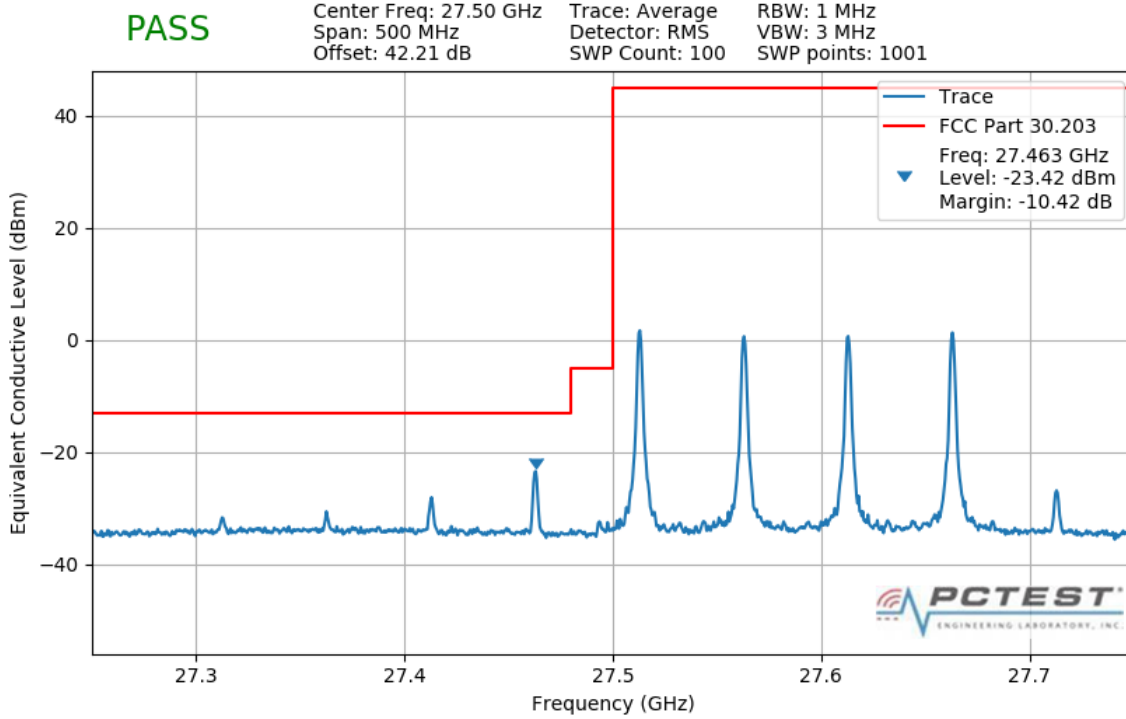


Plot 7-385. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)

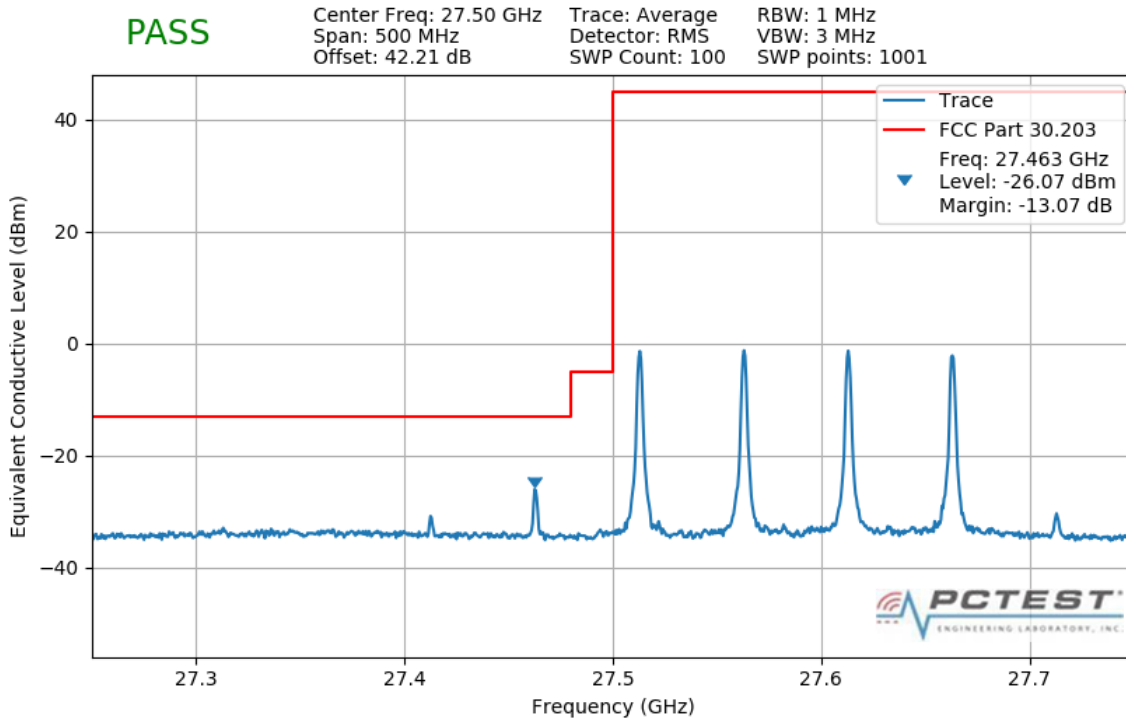


Plot 7-386. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 240 of 337

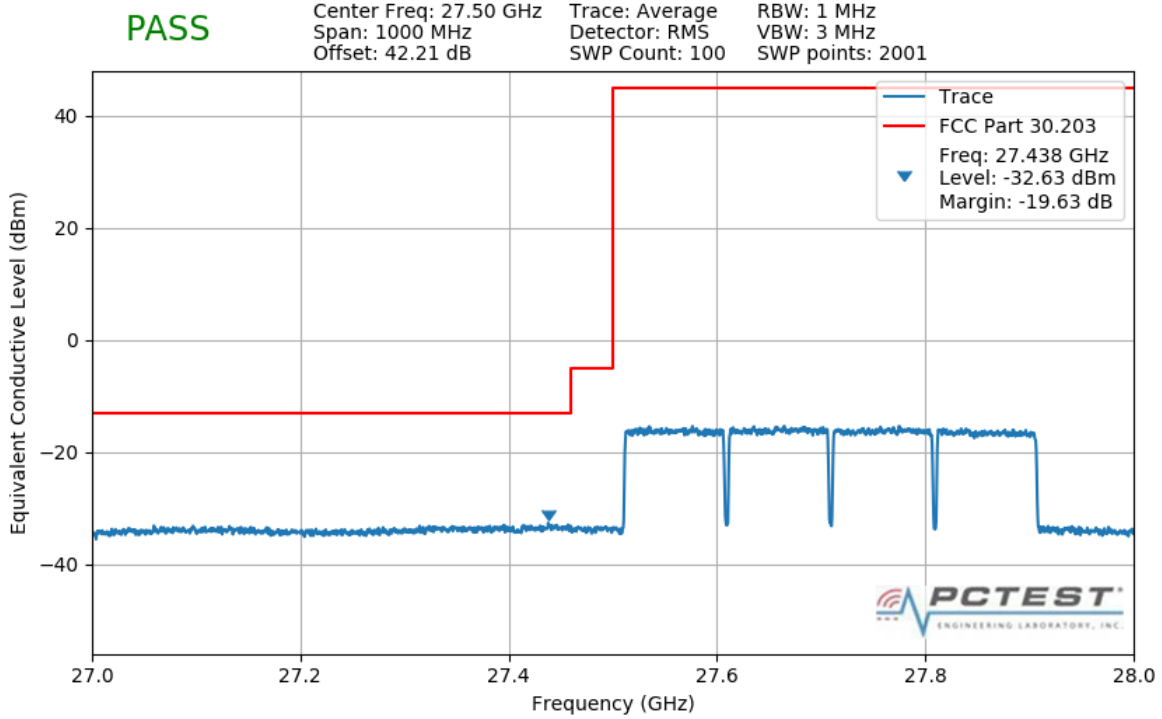


Plot 7-387. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)

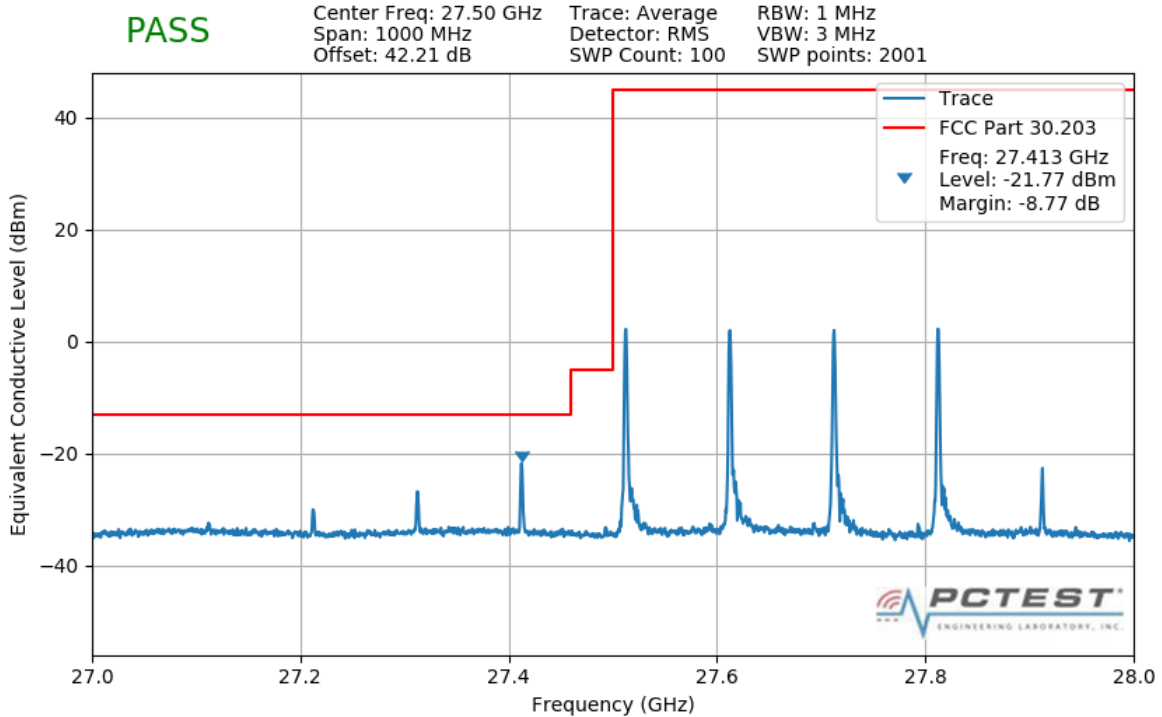


Plot 7-388. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 241 of 337

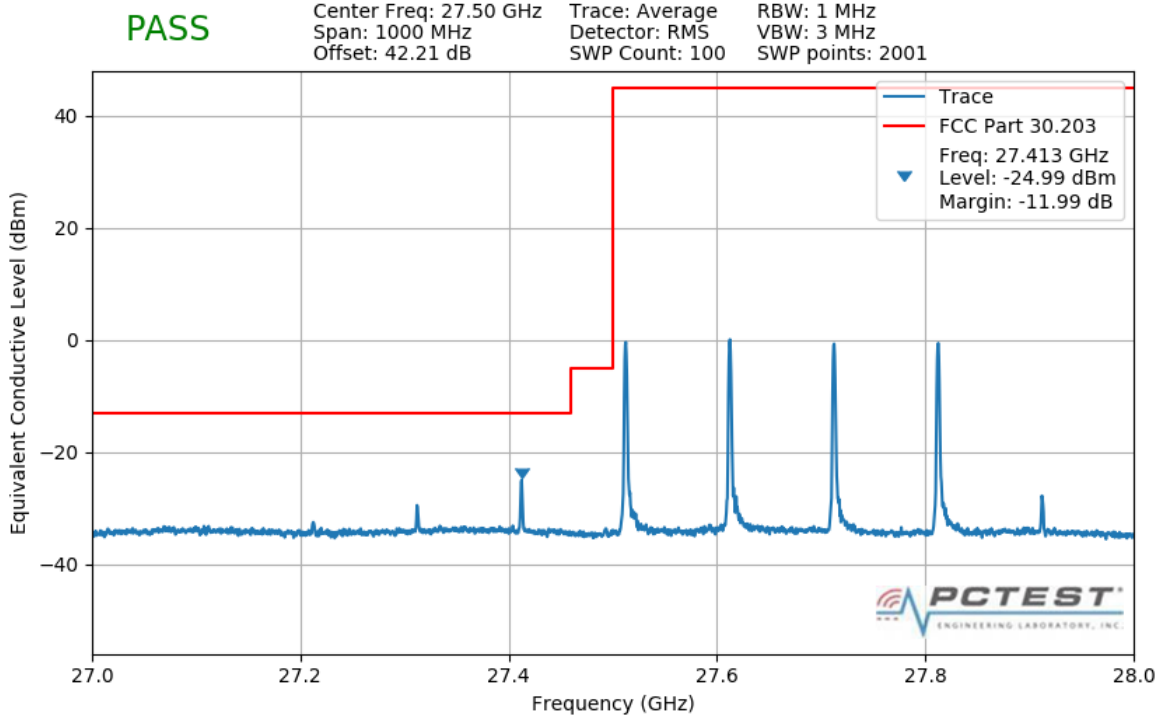


Plot 7-389. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)

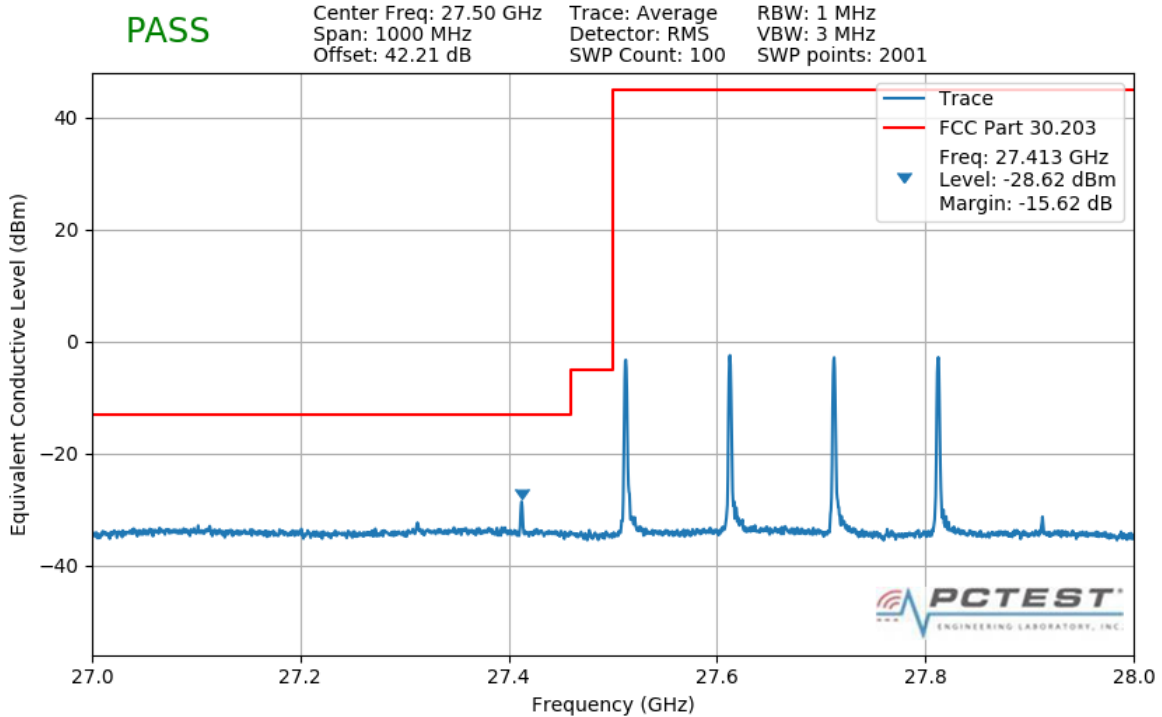


Plot 7-390. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 242 of 337

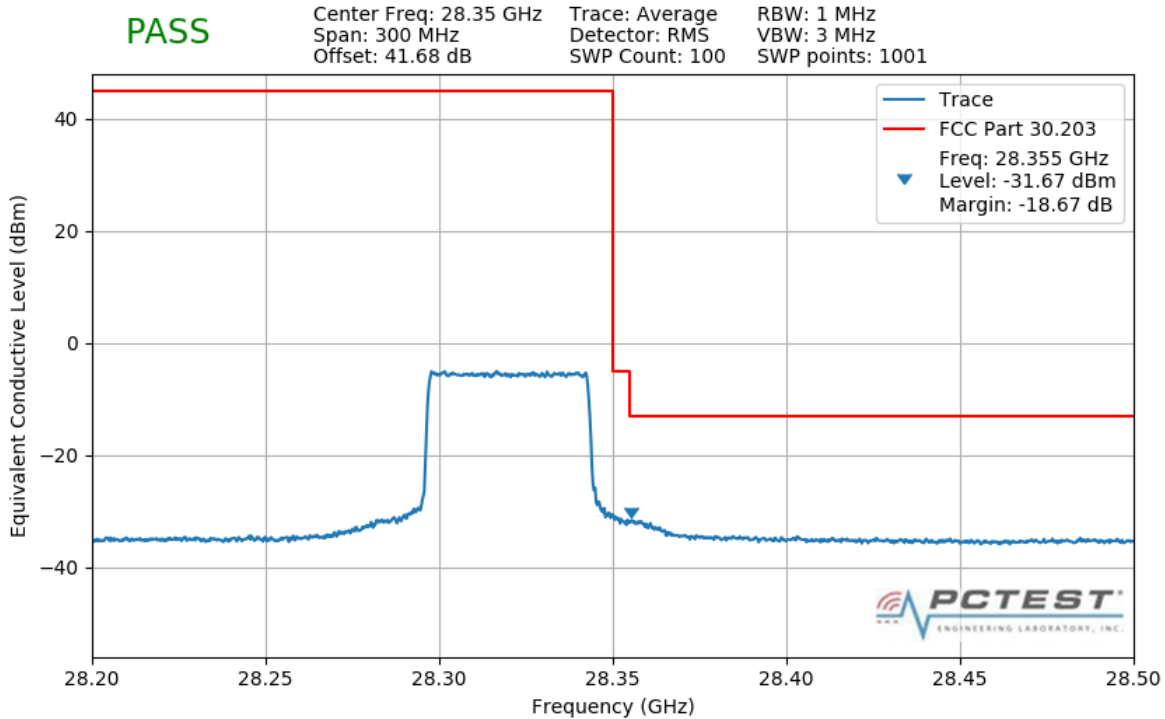


Plot 7-391. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)

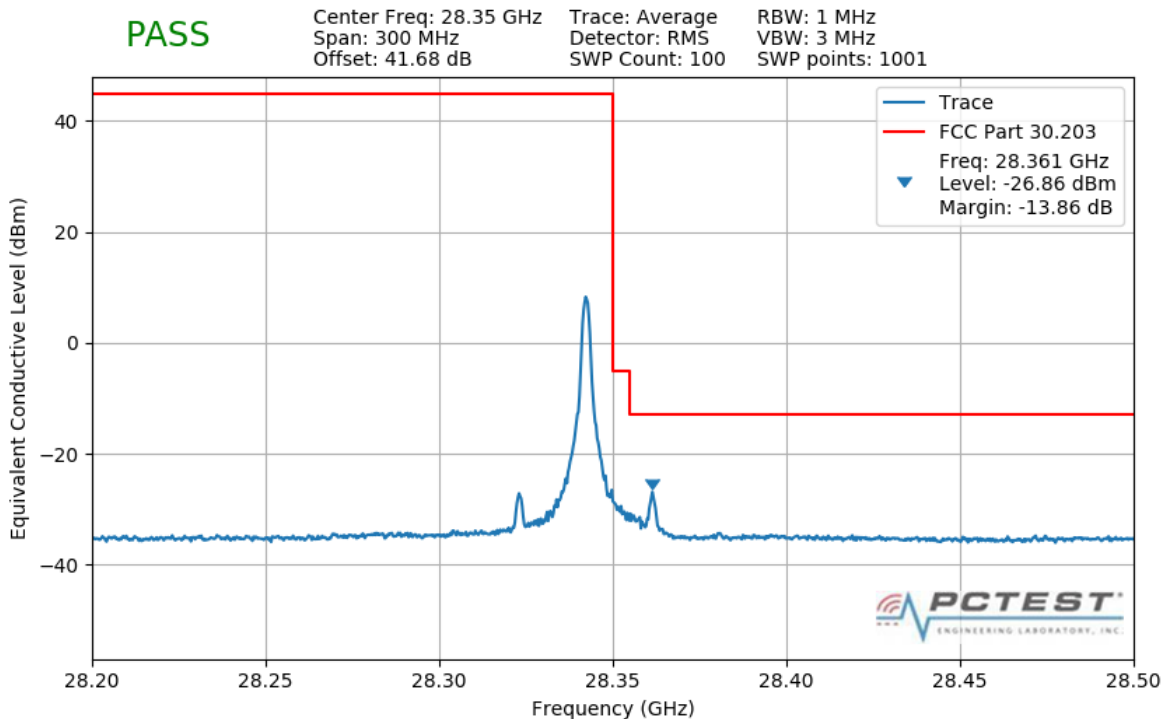


Plot 7-392. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 243 of 337

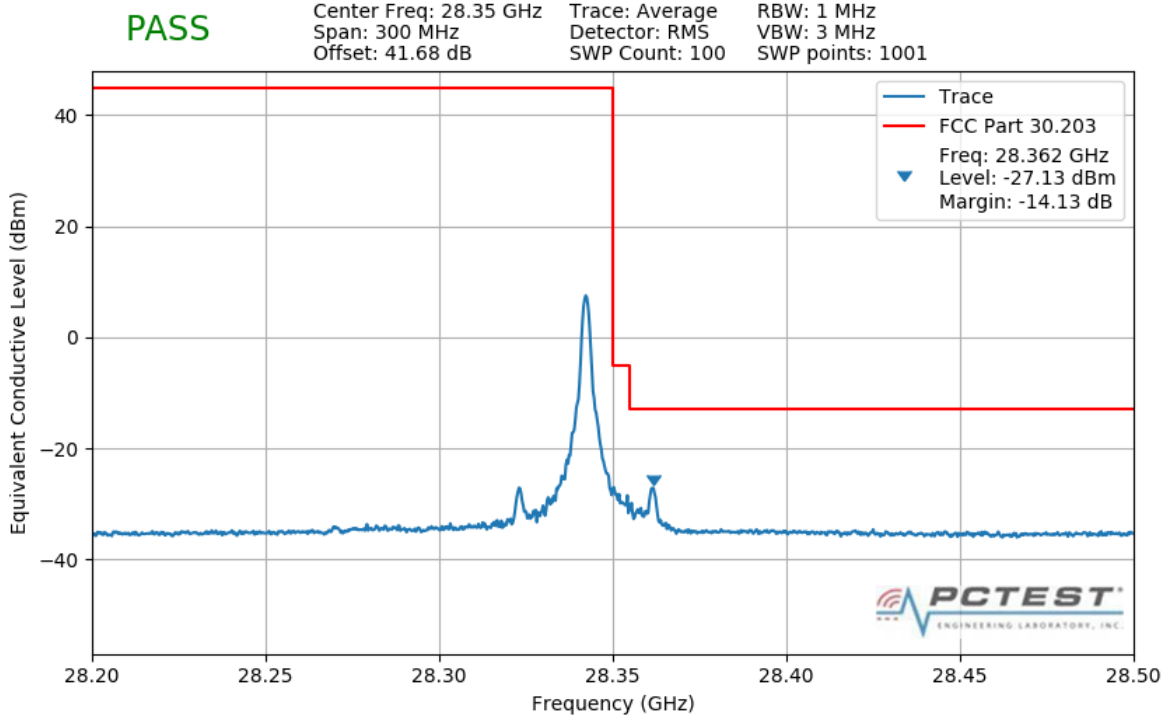


Plot 7-393. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)

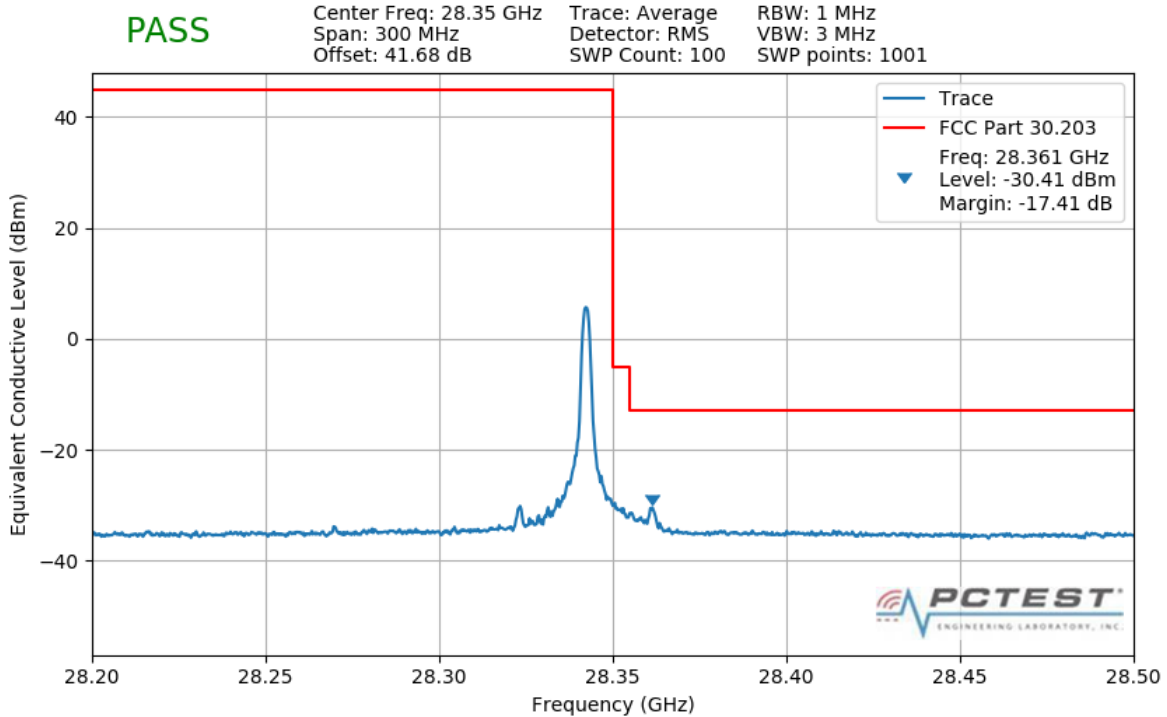


Plot 7-394. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 244 of 337

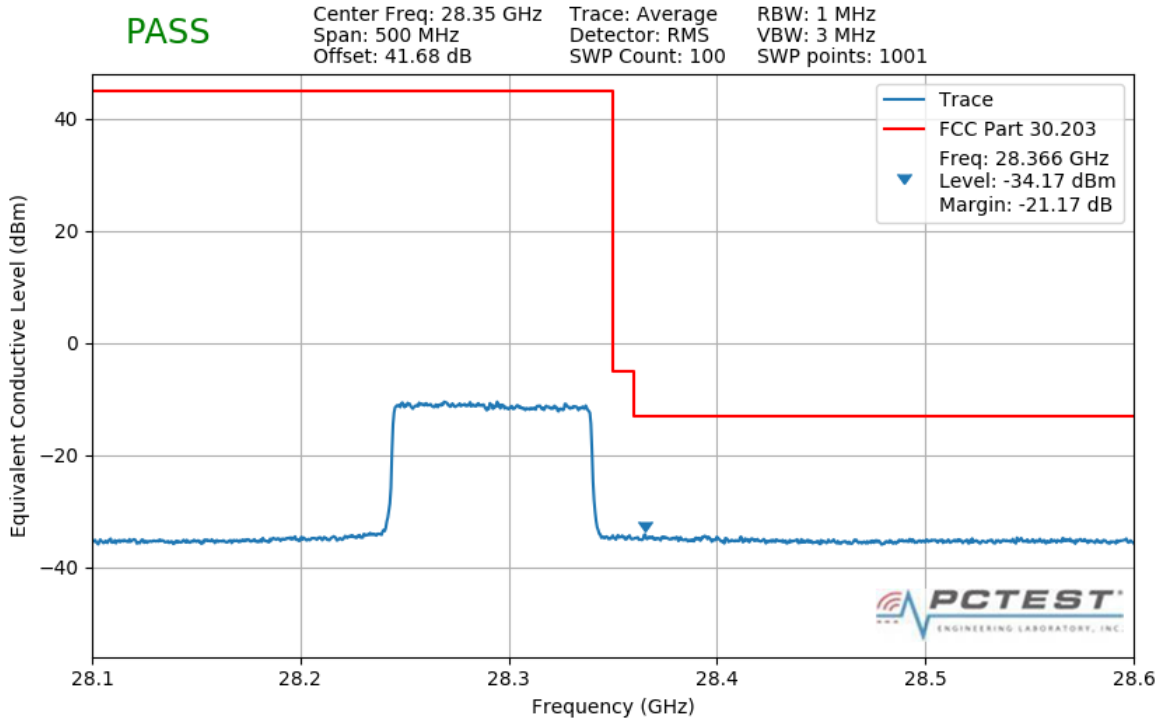


Plot 7-395. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)

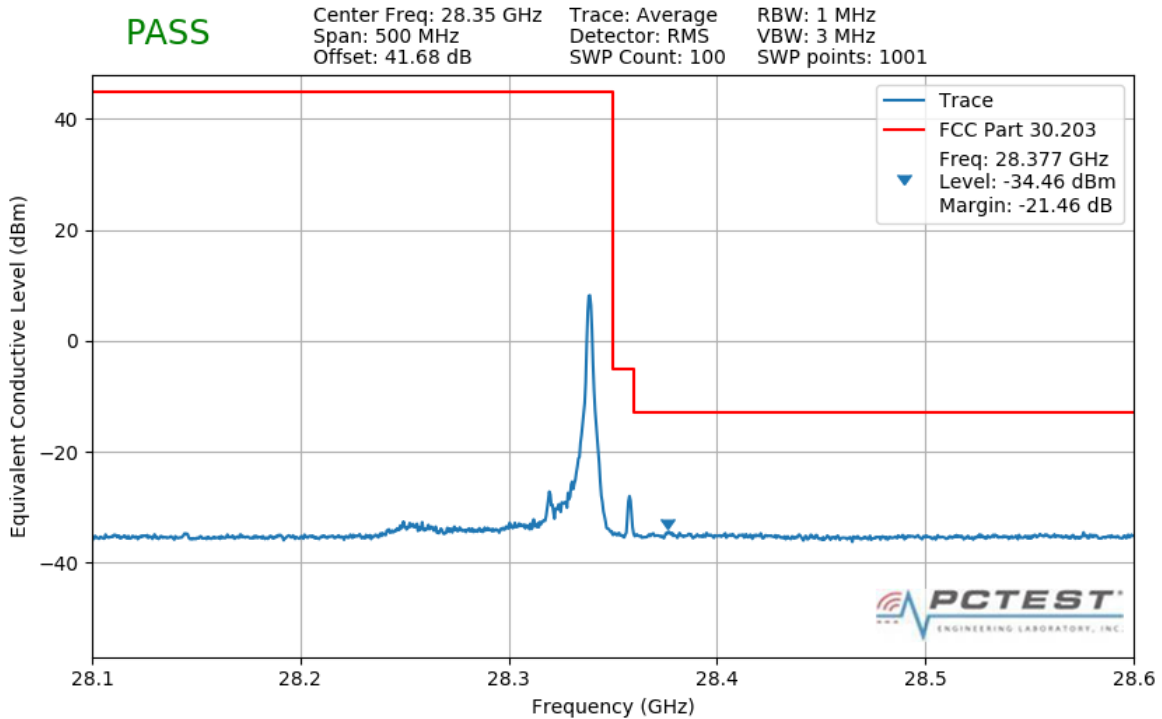


Plot 7-396. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 245 of 337

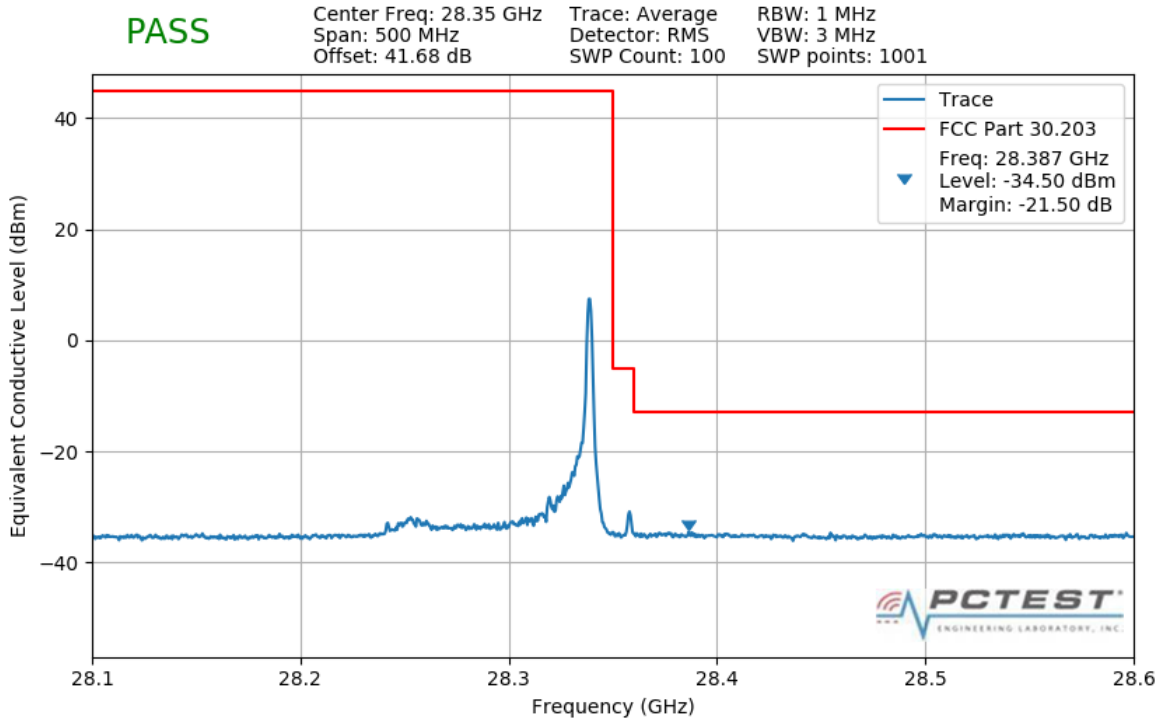


Plot 7-397. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)

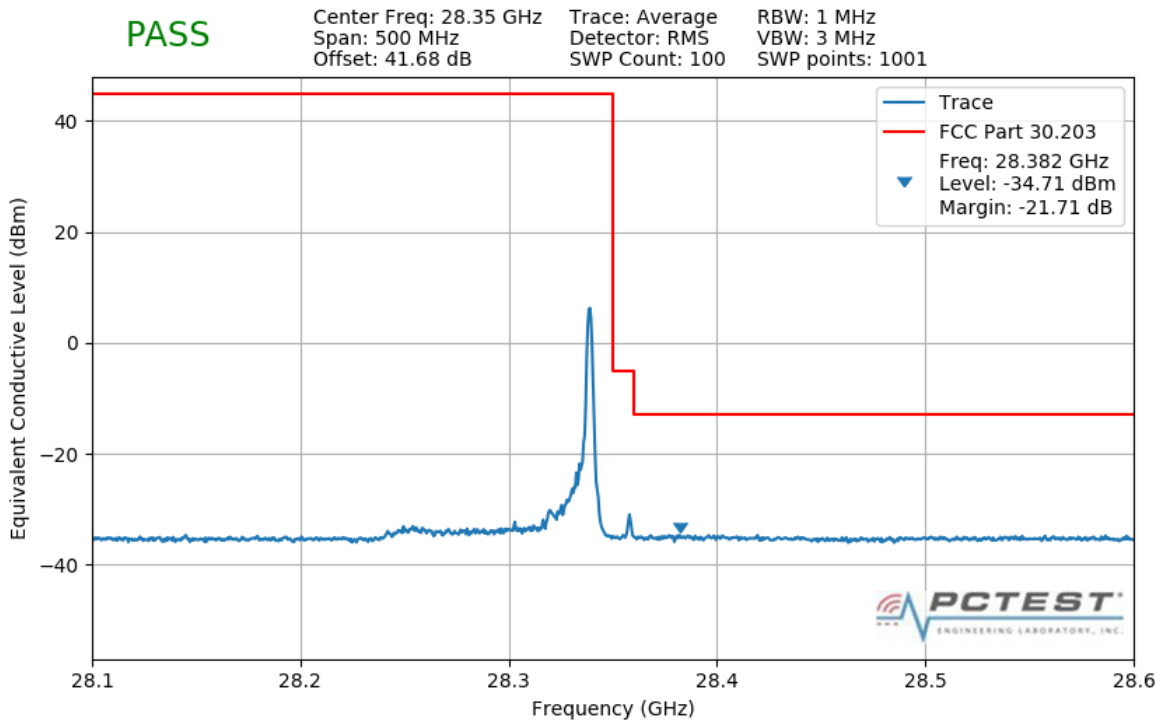


Plot 7-398. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 246 of 337

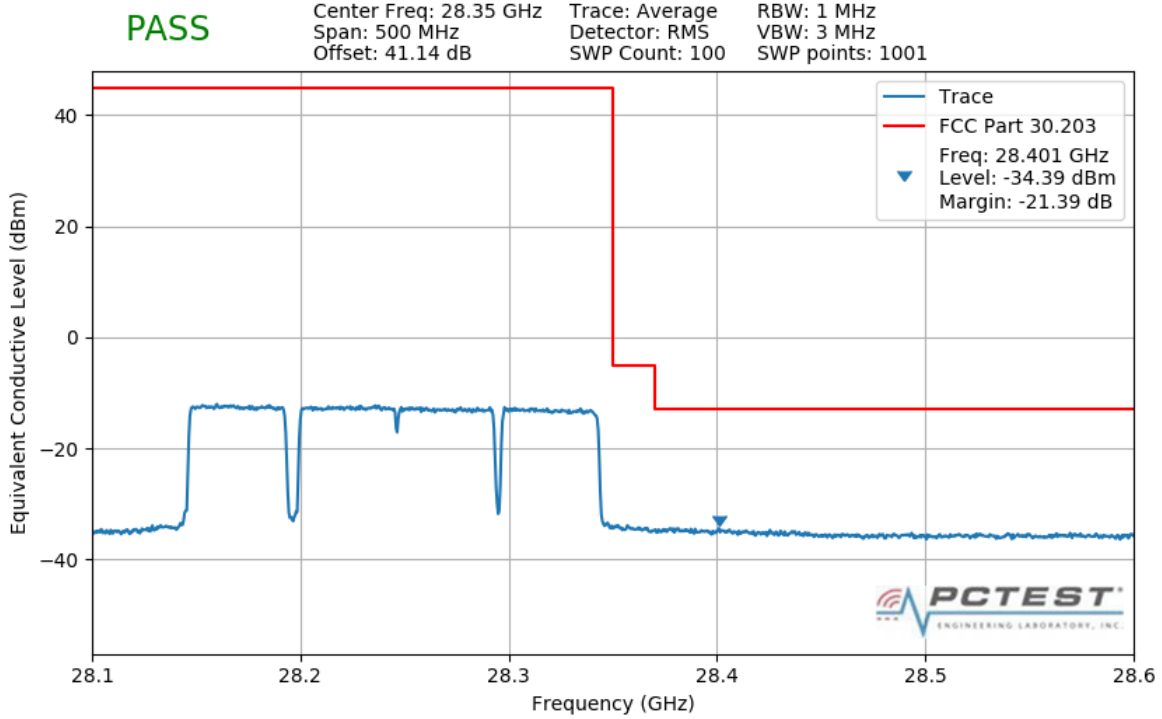


Plot 7-399. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)

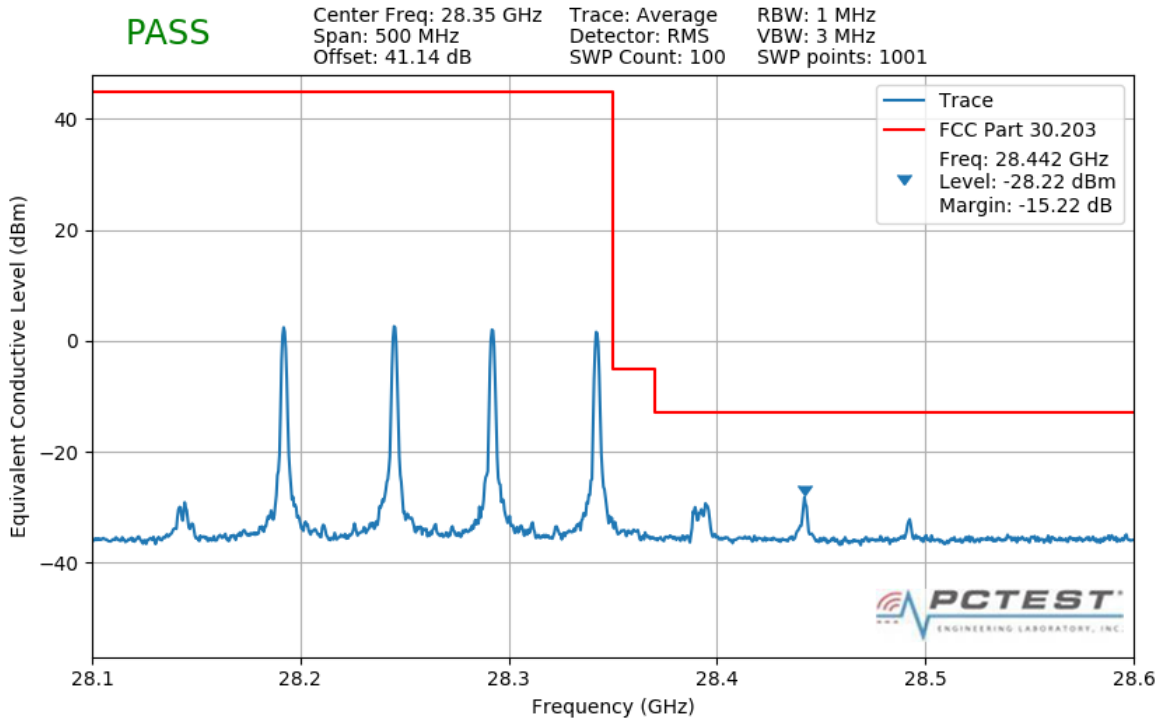


Plot 7-400. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset			Page 247 of 337

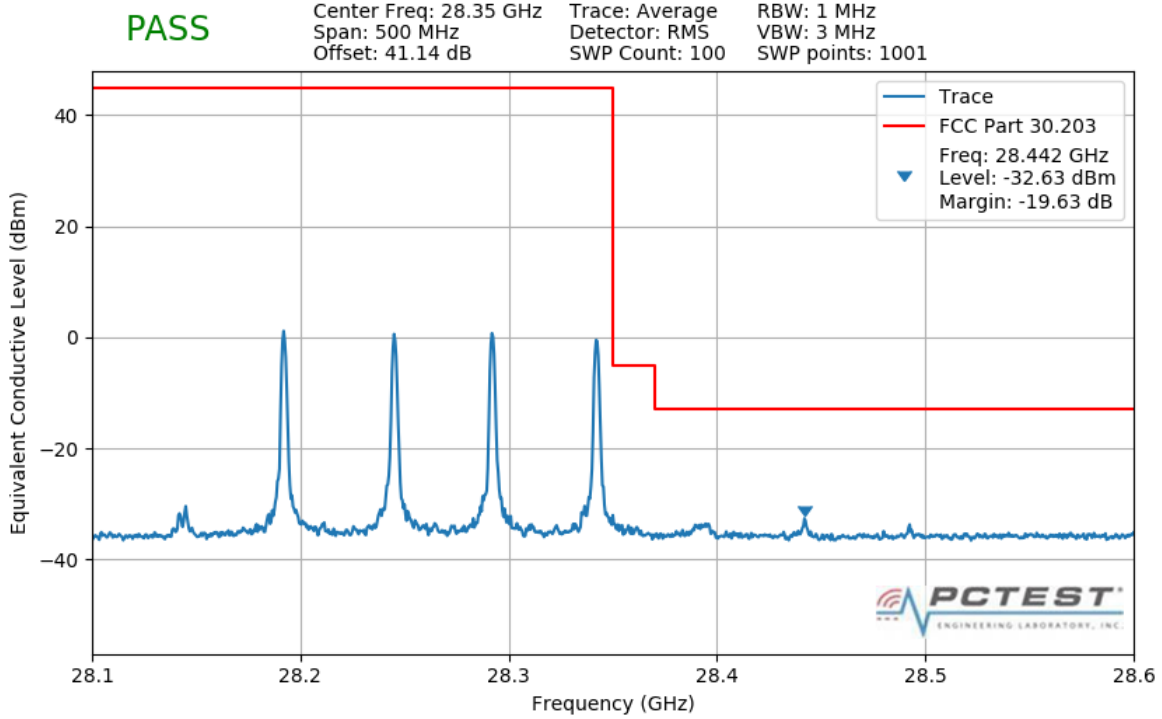


Plot 7-401. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)

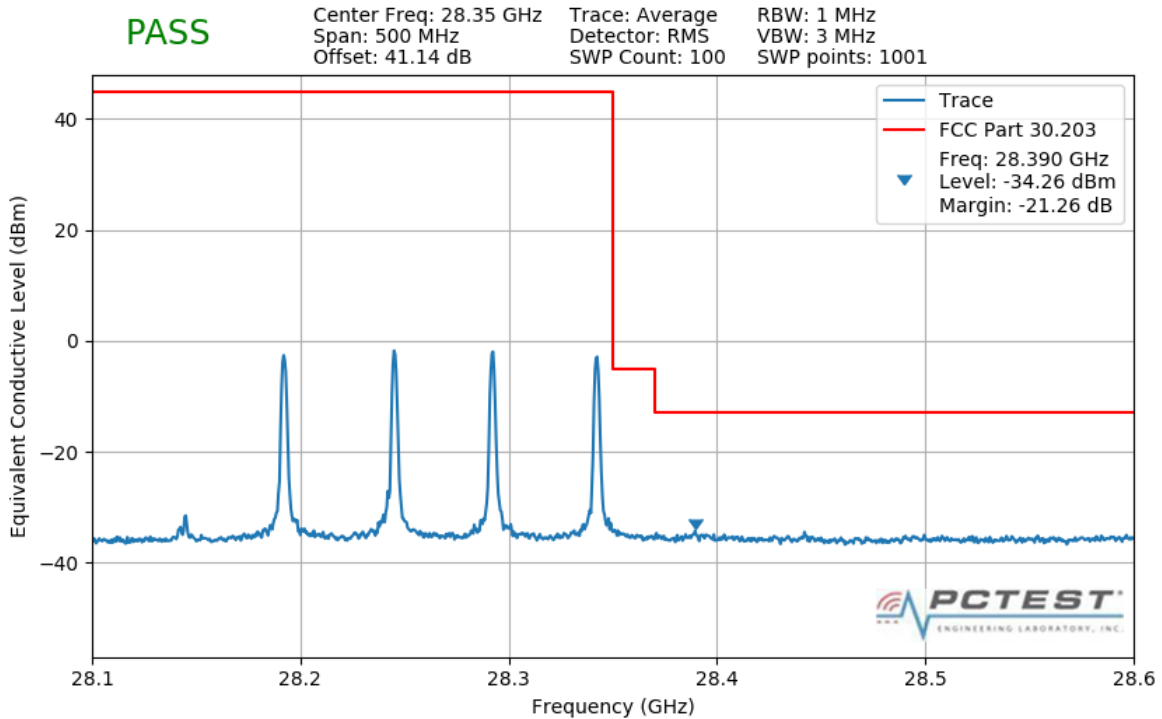


Plot 7-402. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 248 of 337

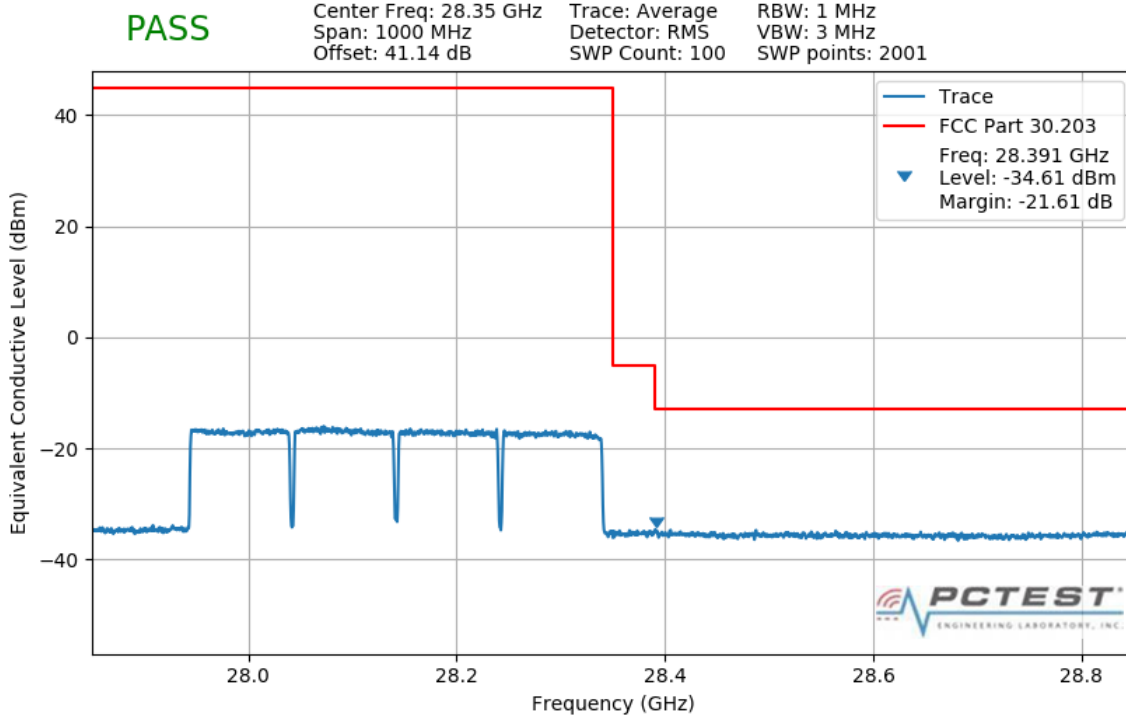


Plot 7-403. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)

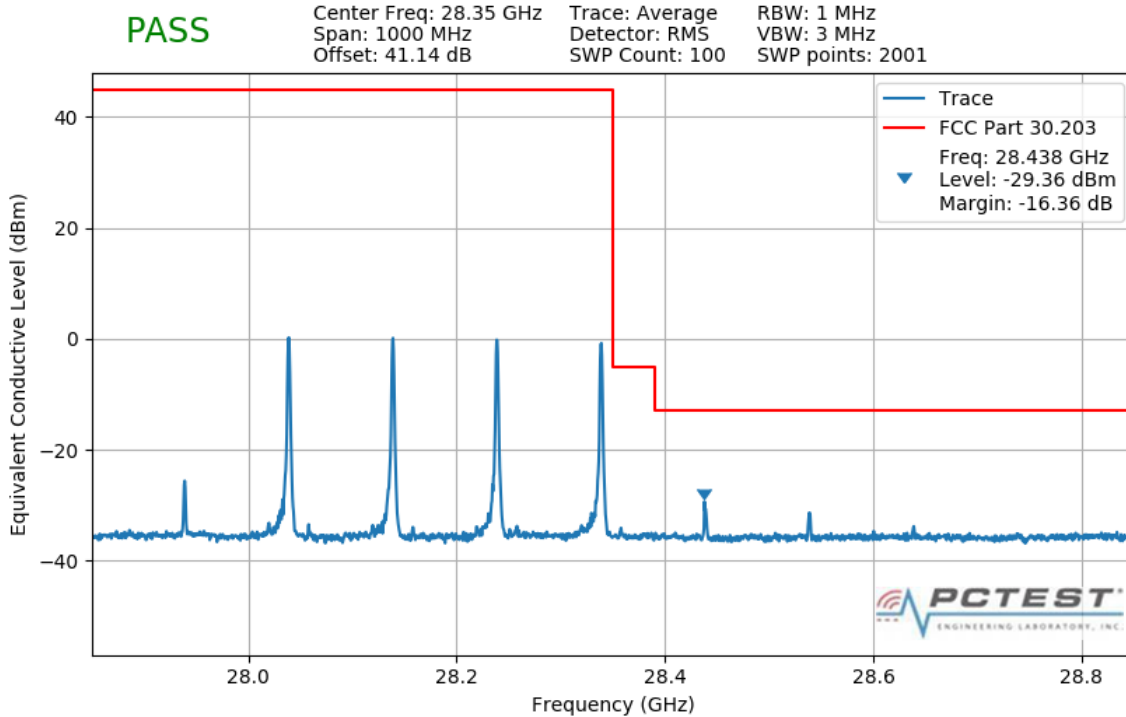


Plot 7-404. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 249 of 337

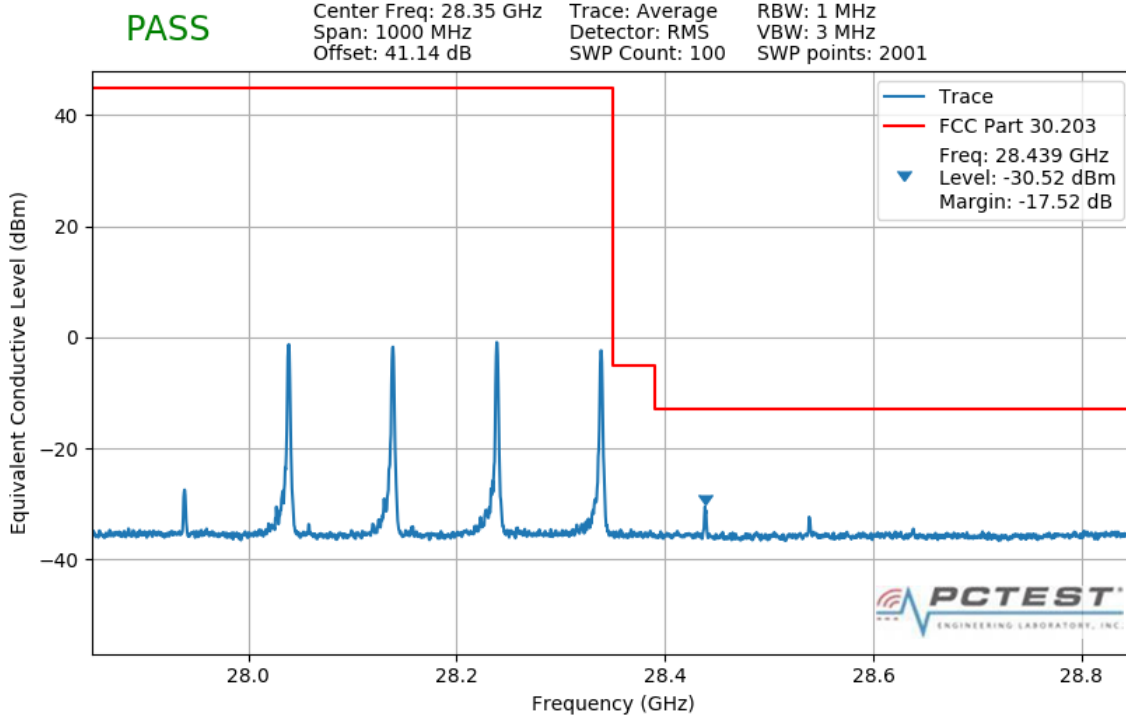


Plot 7-405. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)

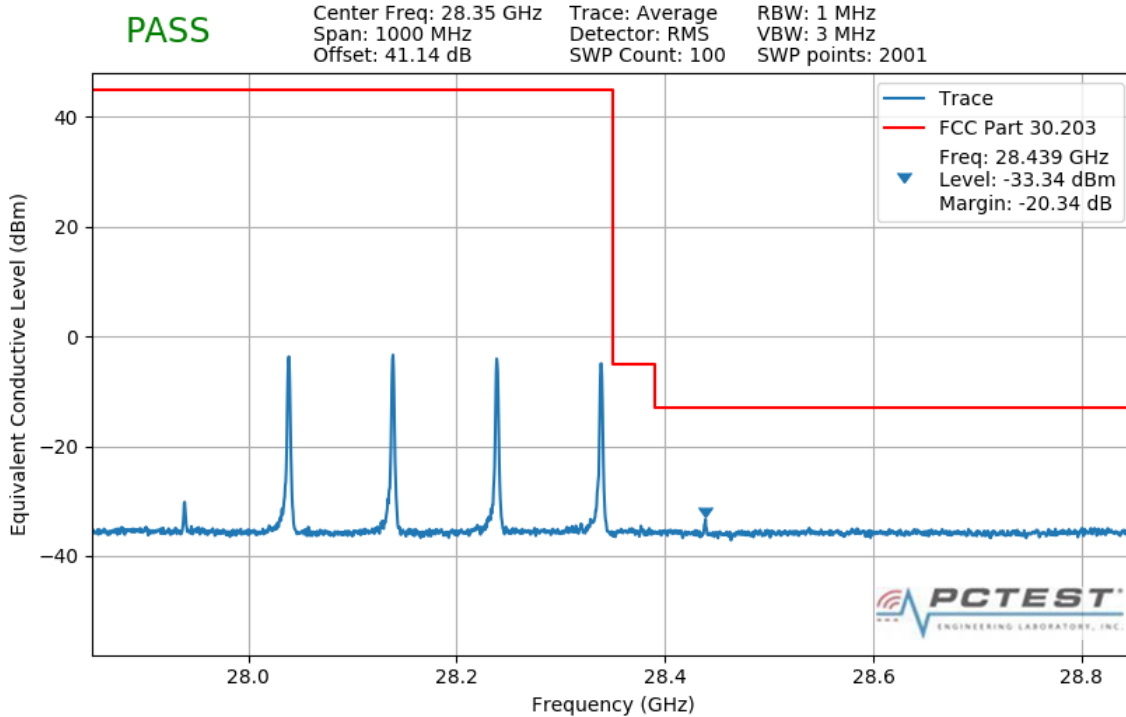


Plot 7-406. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 250 of 337



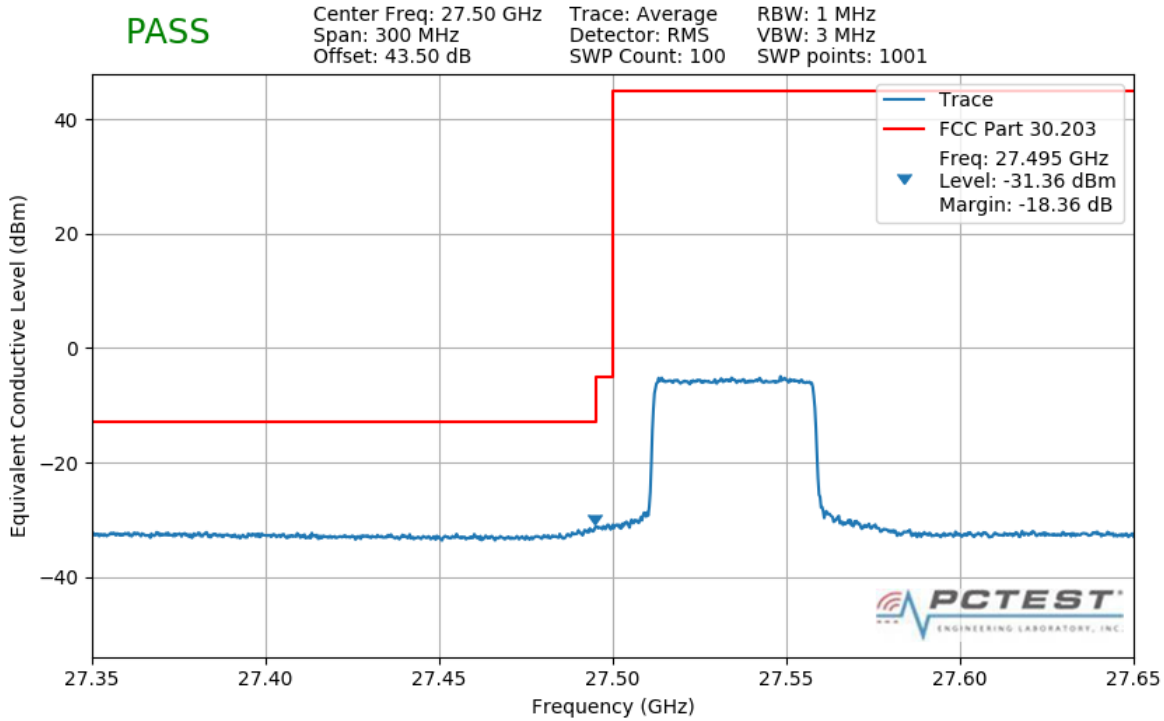
Plot 7-407. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



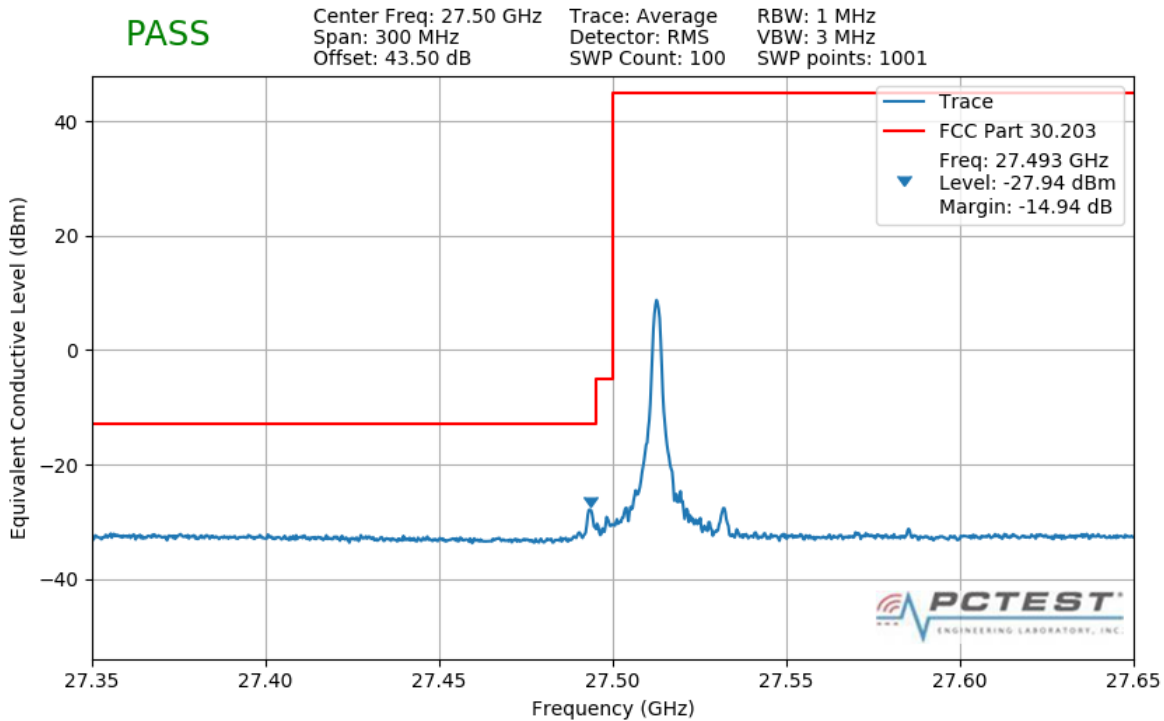
Plot 7-408. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 251 of 337

V Beam

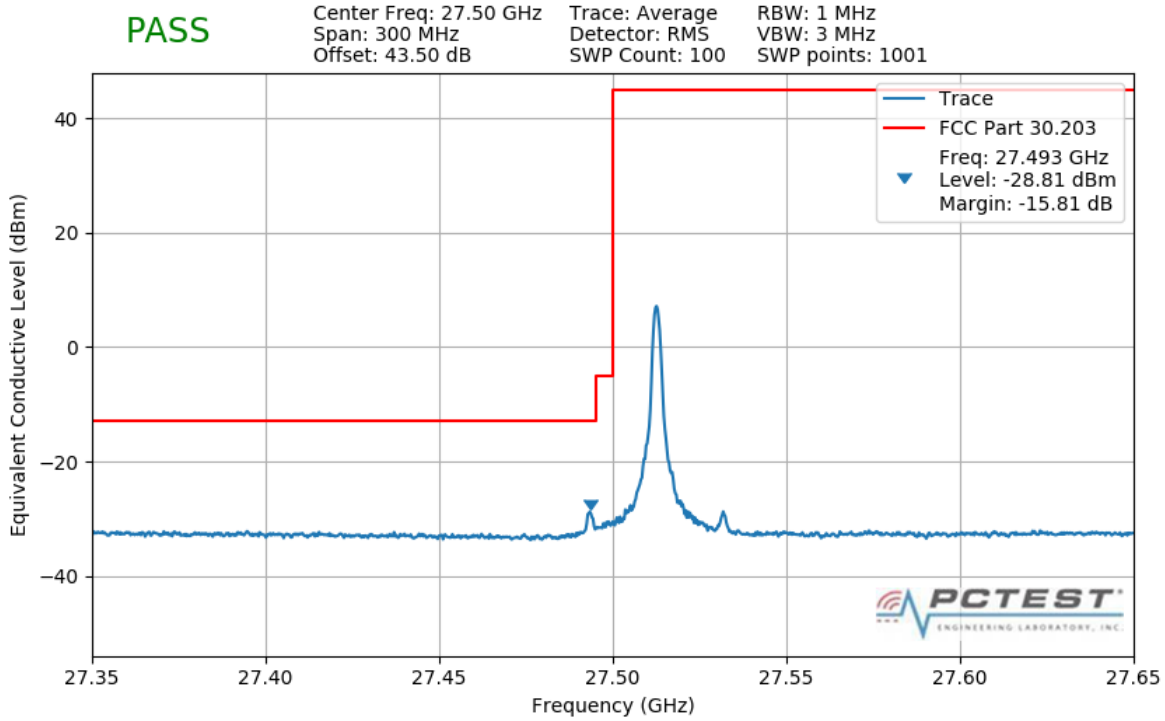


Plot 7-409. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)

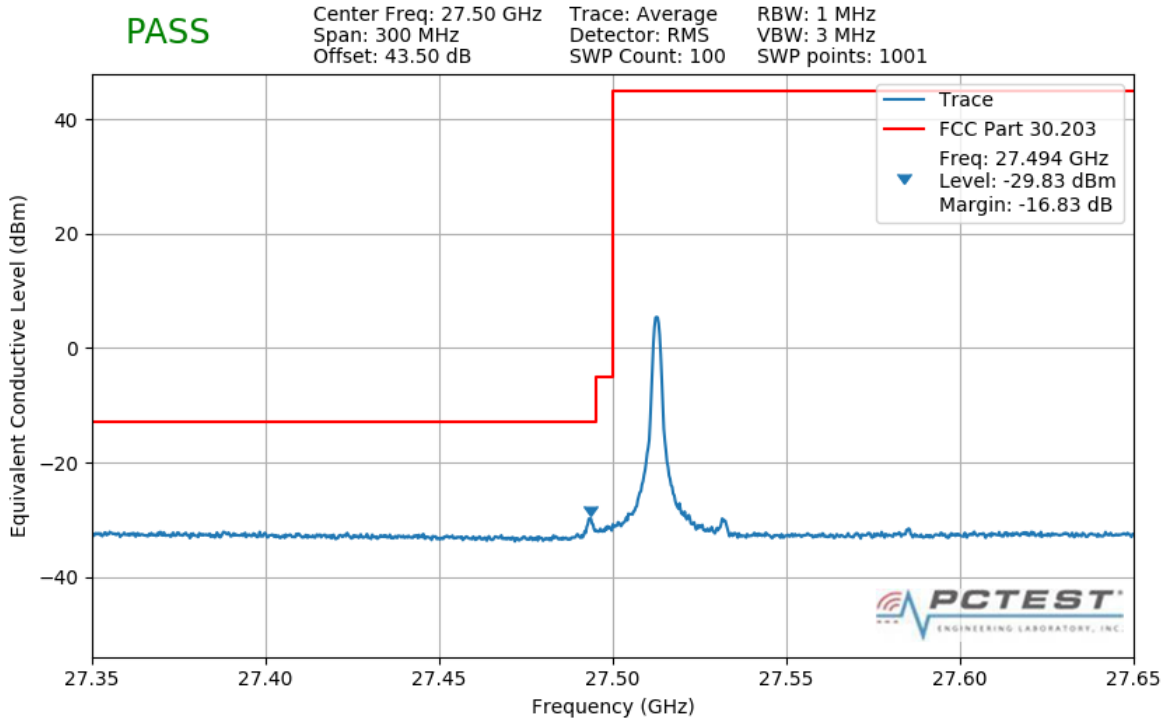


Plot 7-410. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset	Page 252 of 337

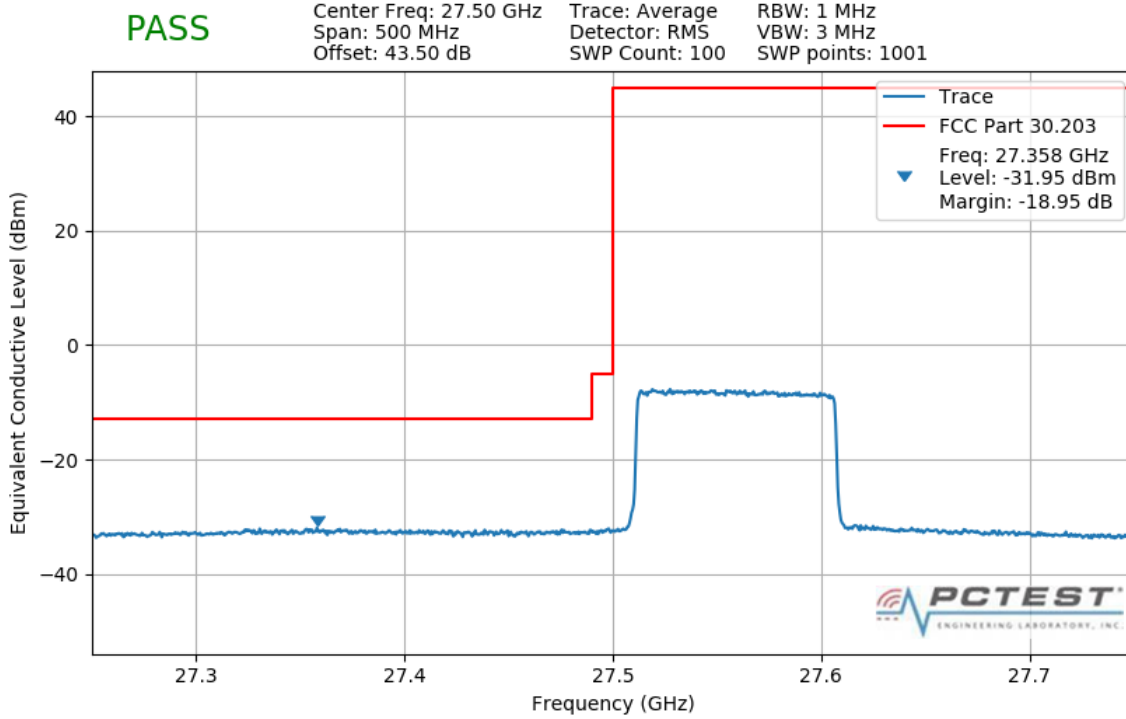


Plot 7-411. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)

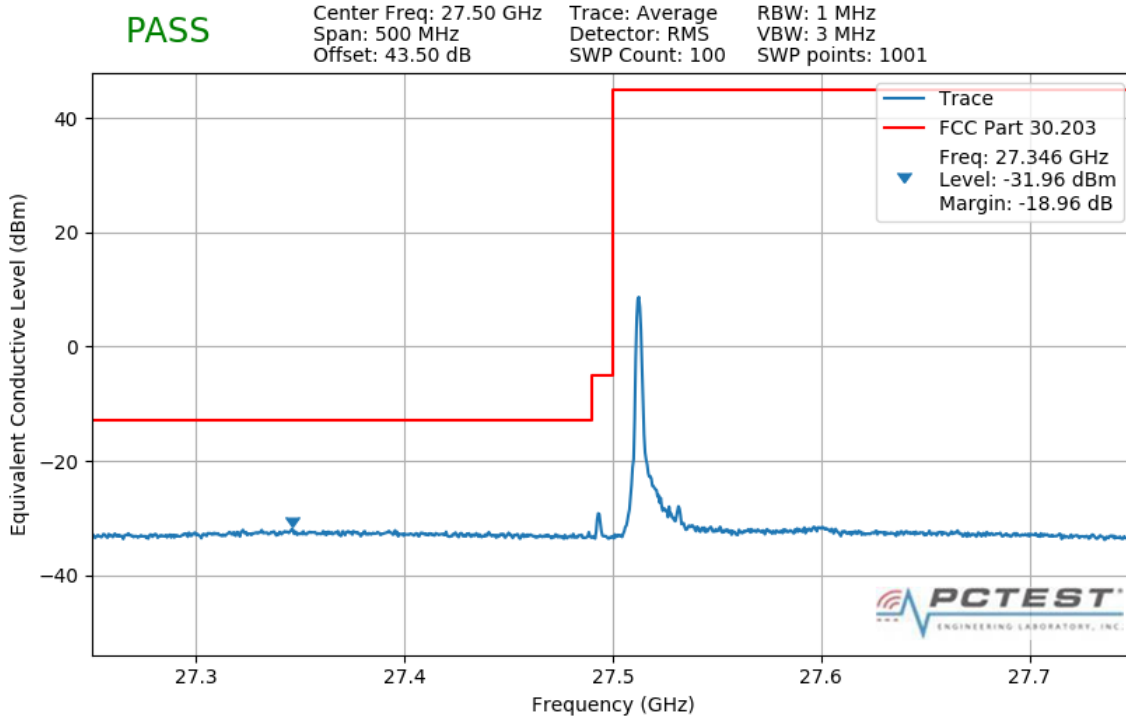


Plot 7-412. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 253 of 337

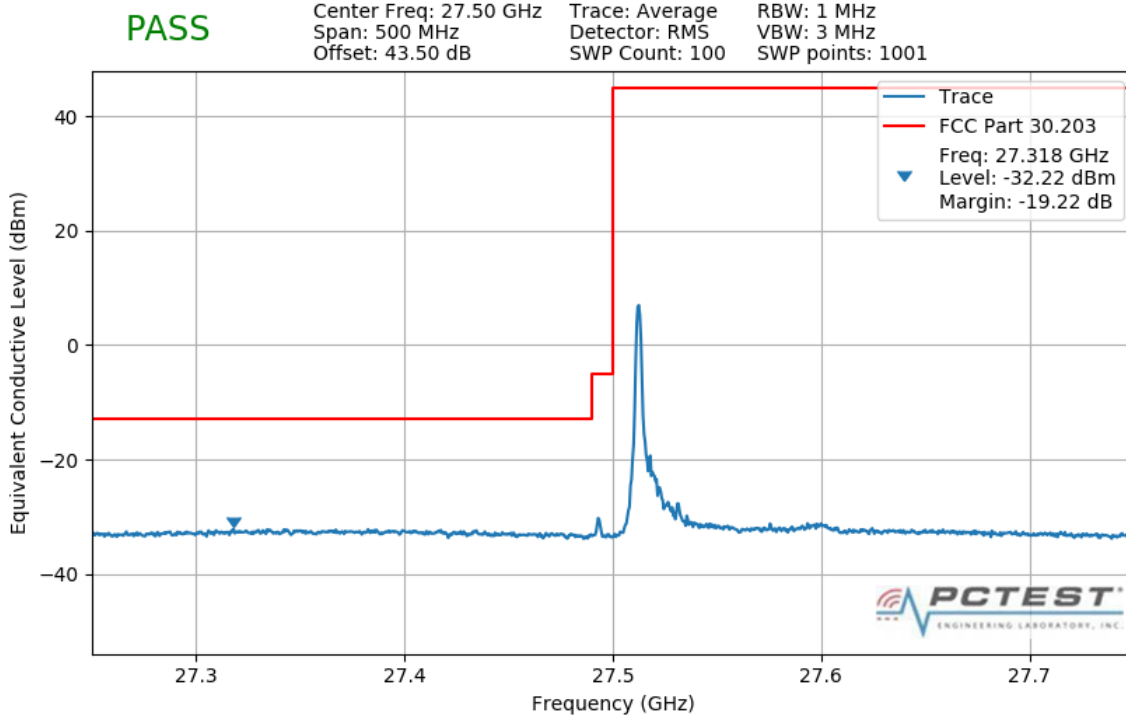


Plot 7-413. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)

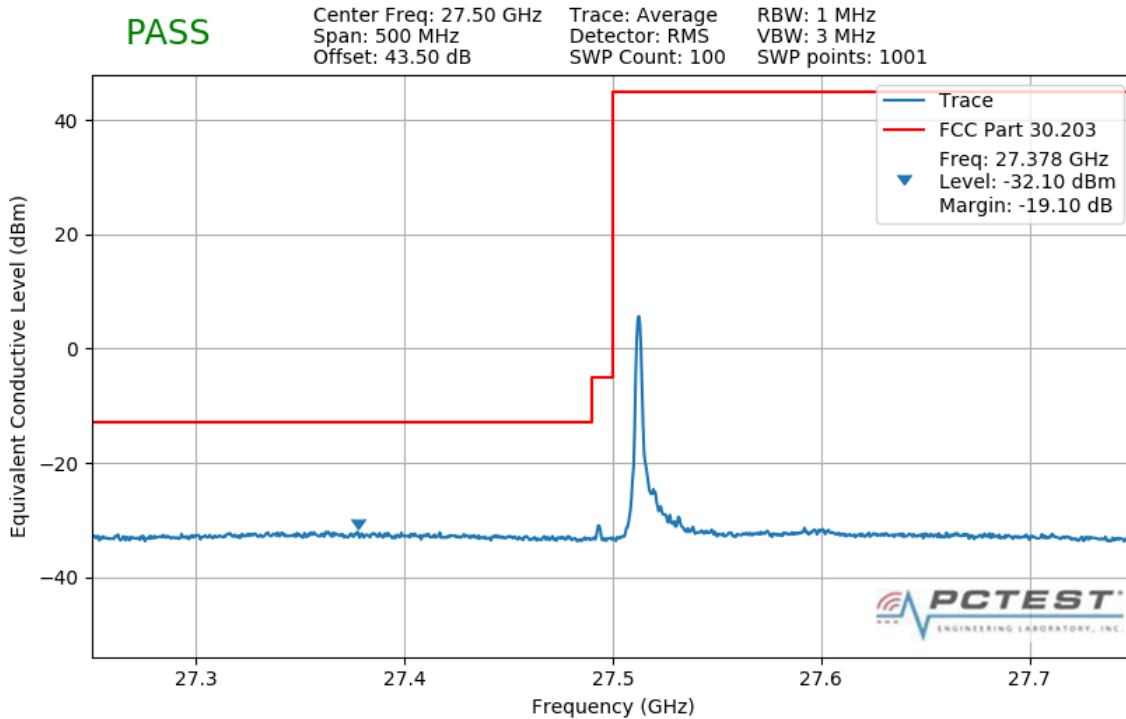


Plot 7-414. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 254 of 337

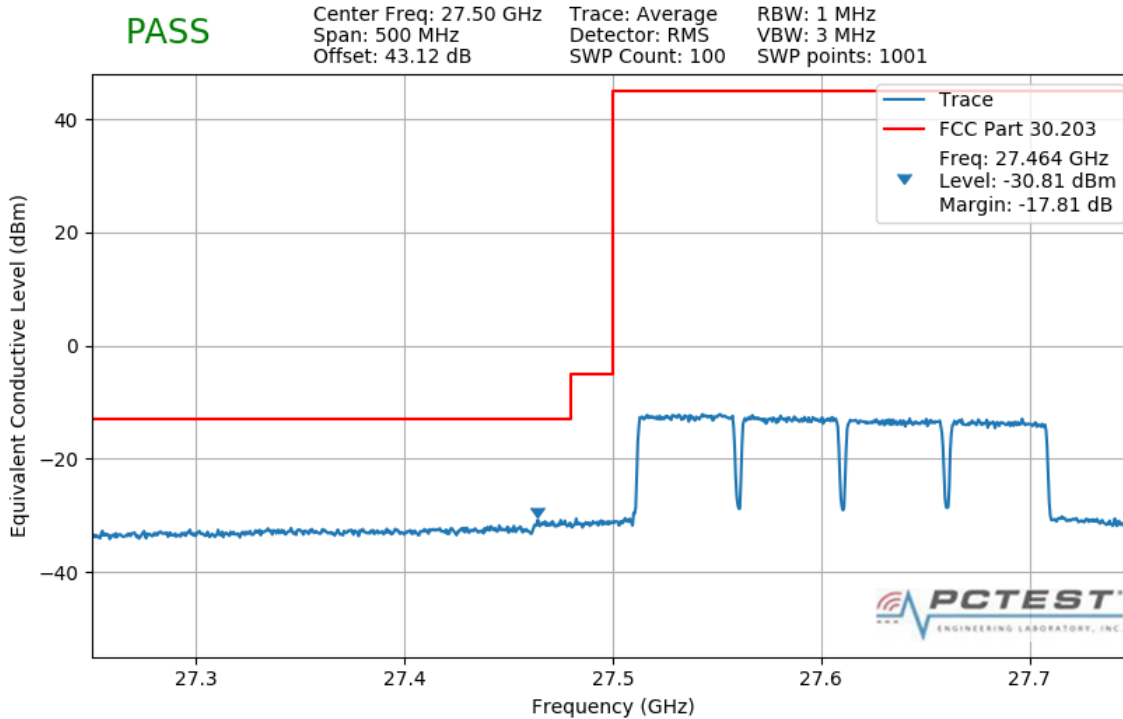


Plot 7-415. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)

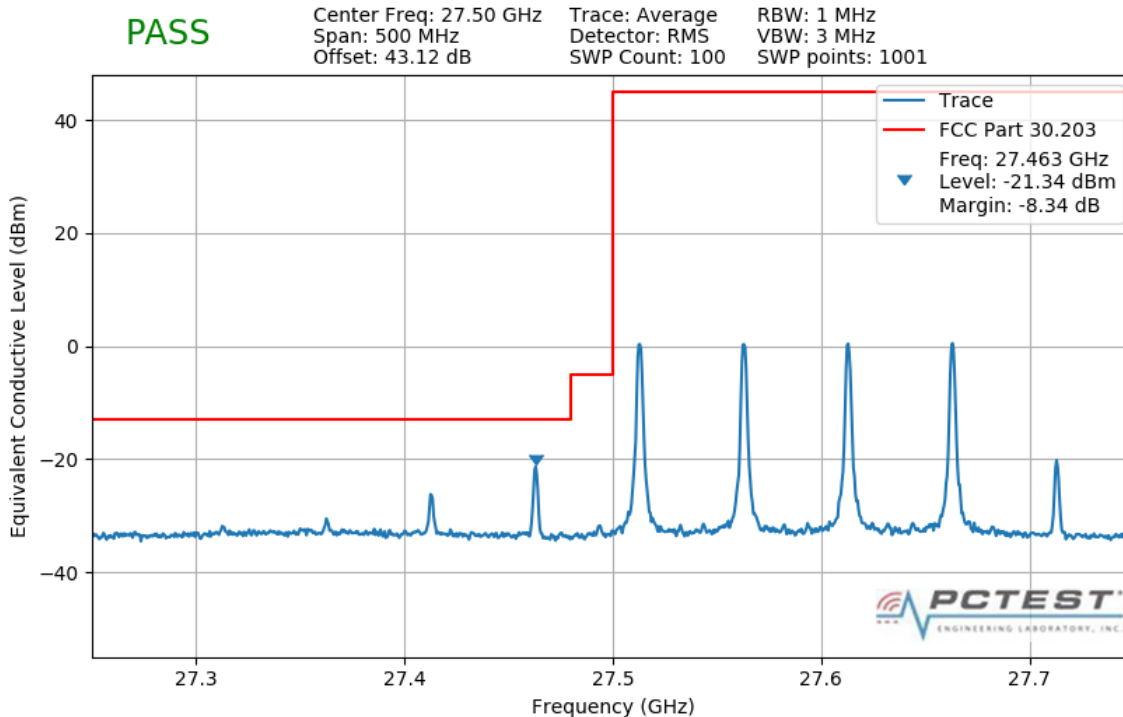


Plot 7-416. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 255 of 337

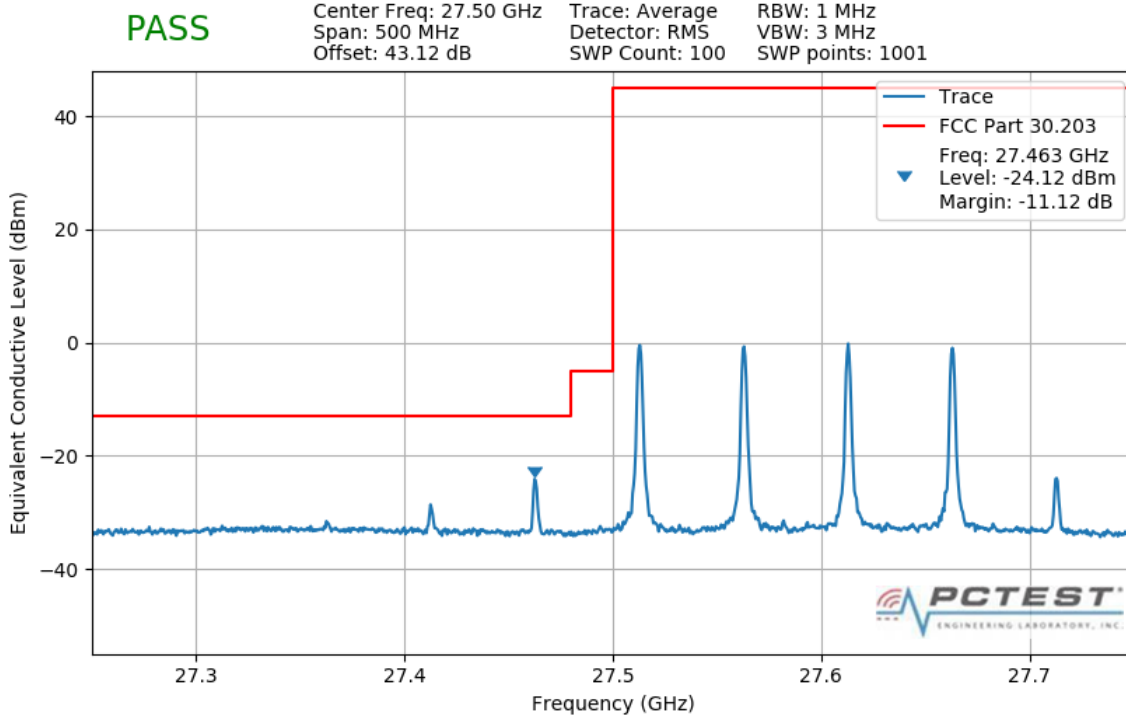


Plot 7-417. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)

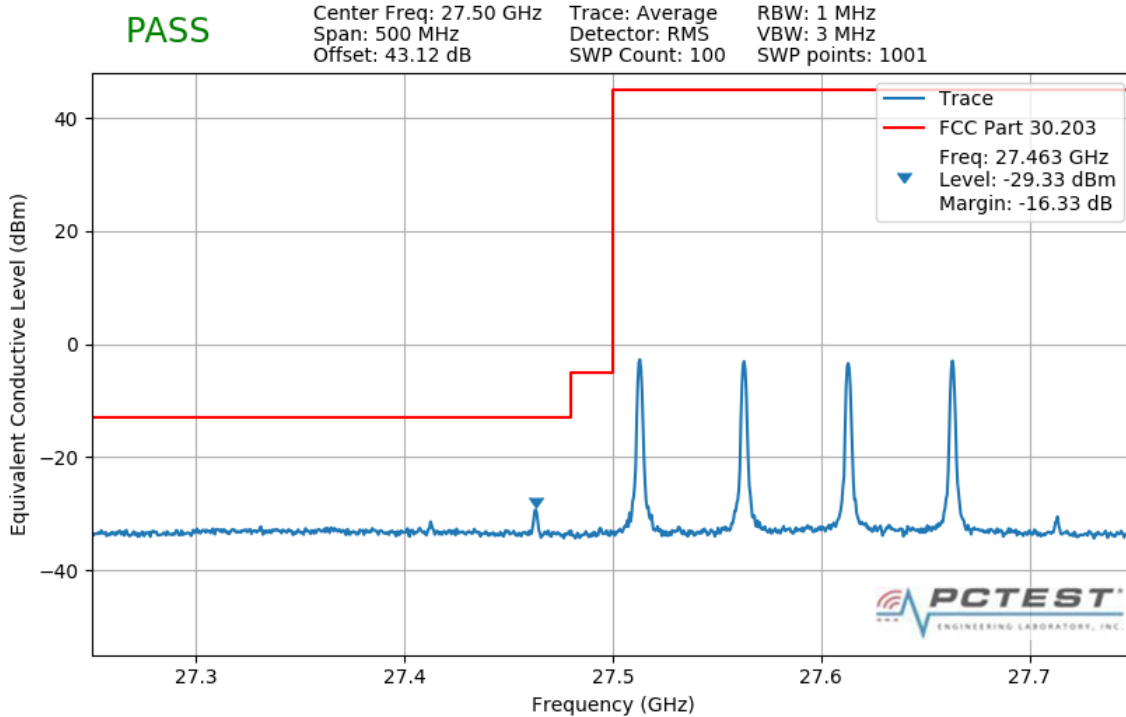


Plot 7-418. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 256 of 337

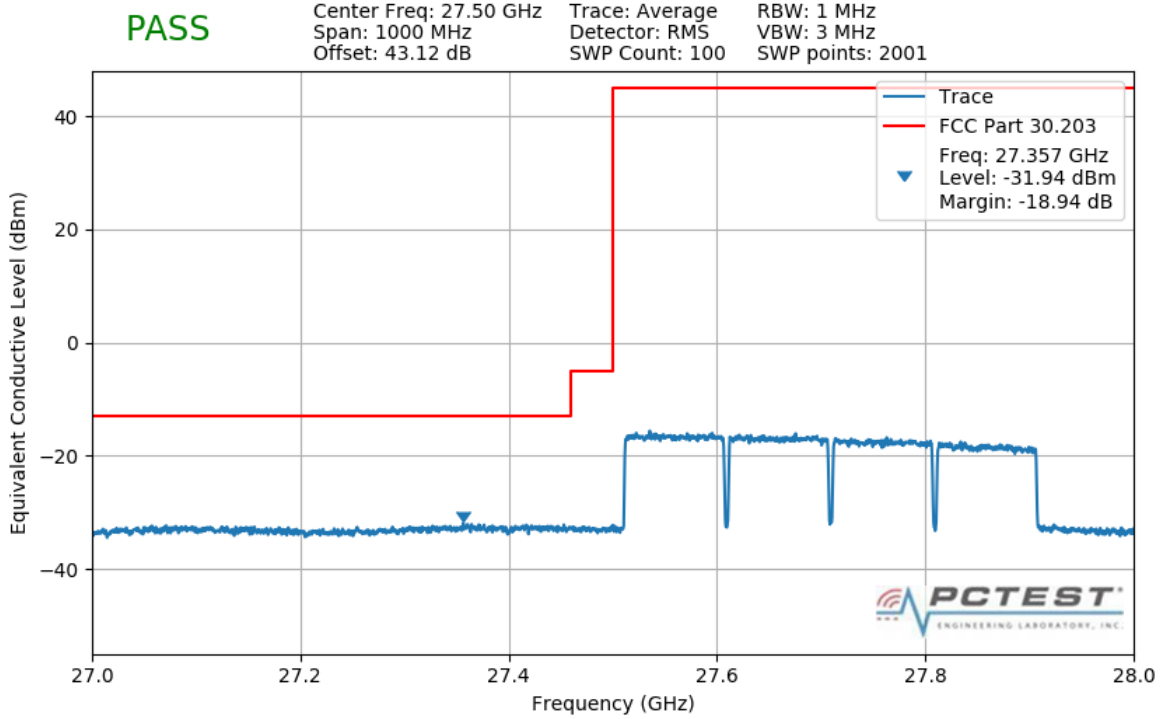


Plot 7-419. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)

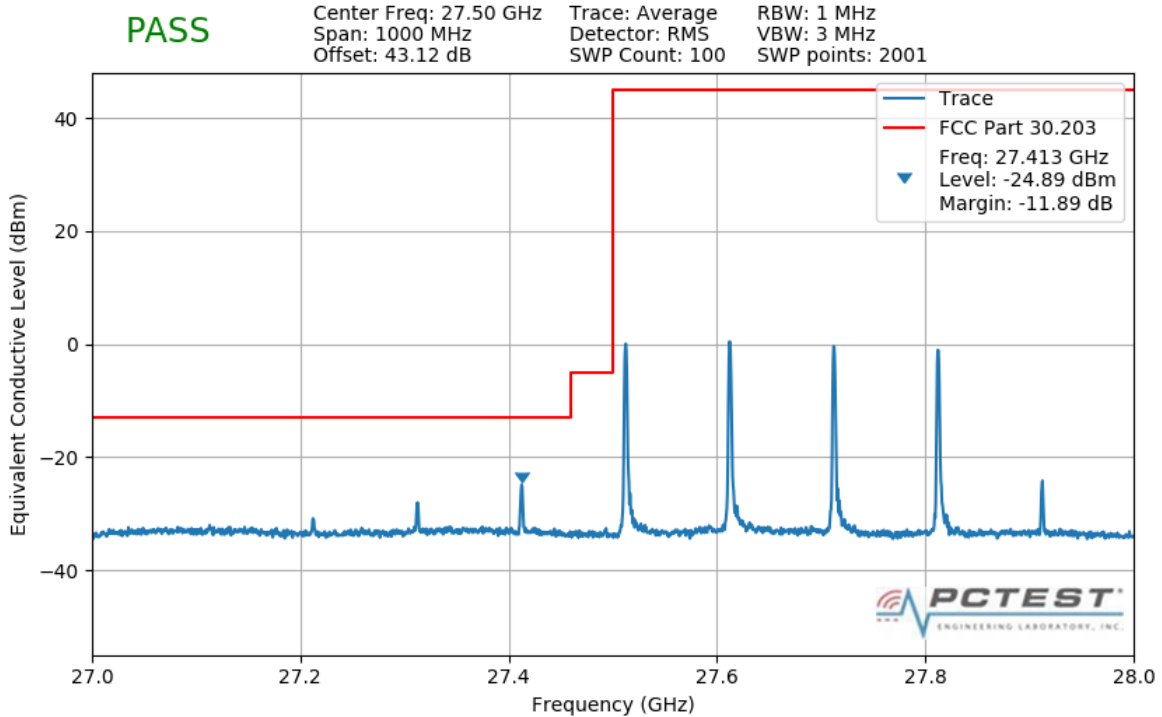


Plot 7-420. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 257 of 337

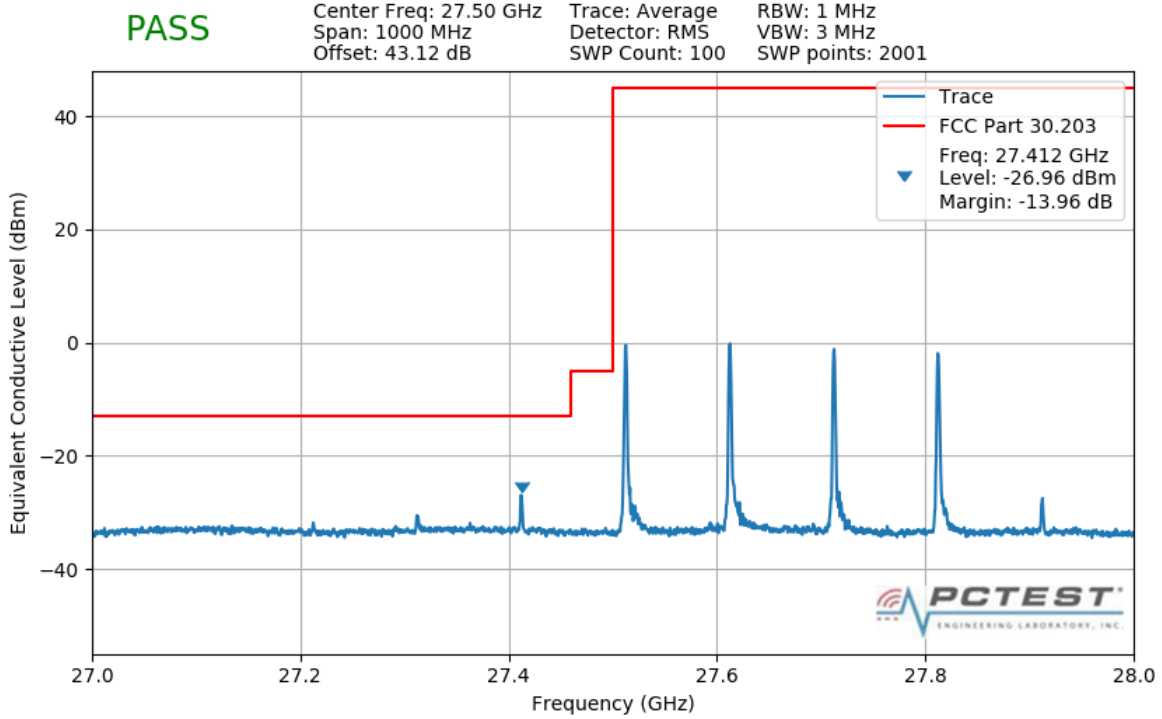


Plot 7-421. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)

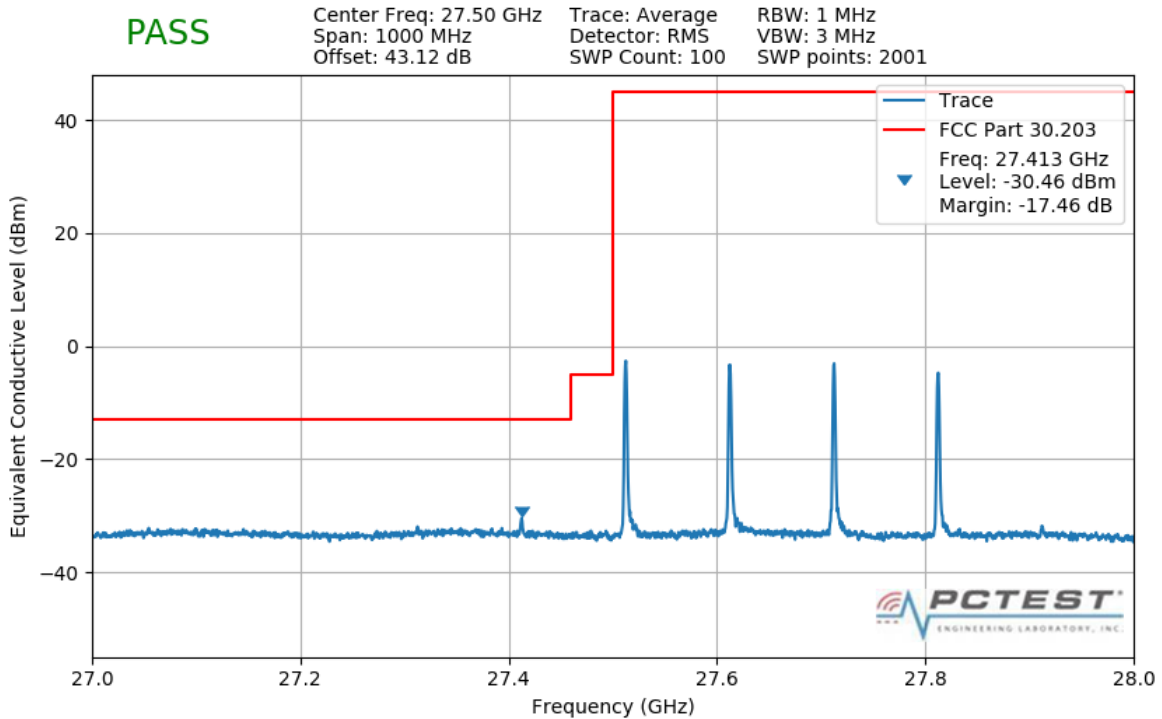


Plot 7-422. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 258 of 337

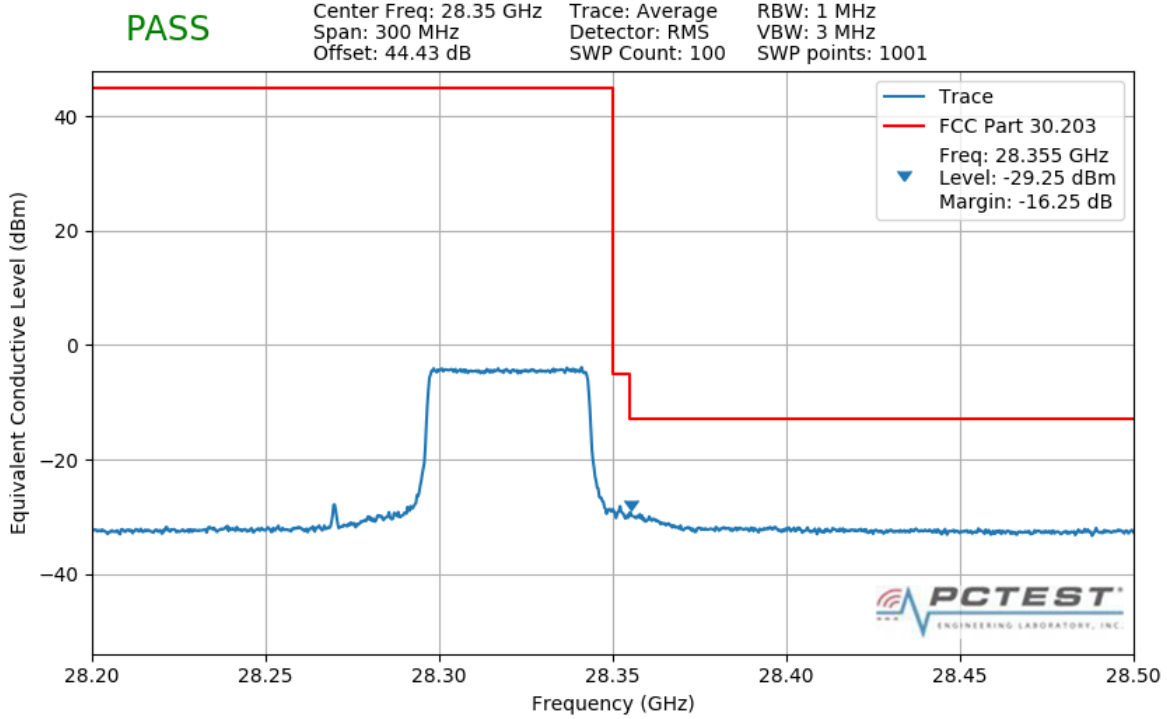


Plot 7-423. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)

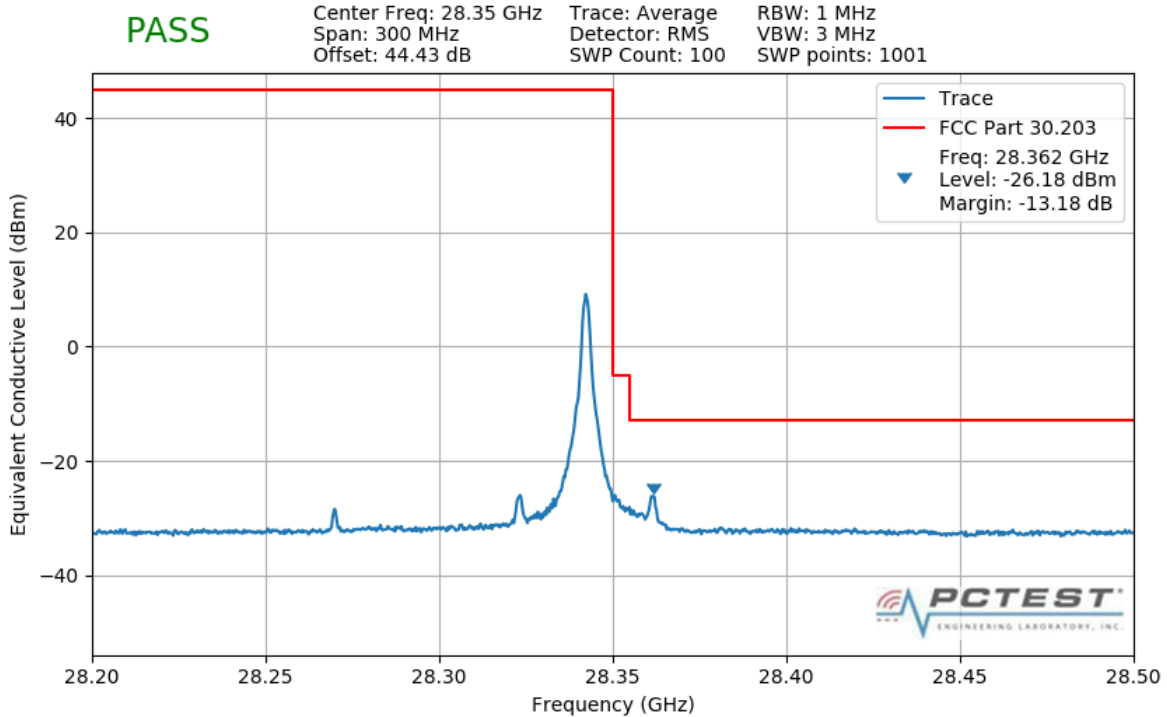


Plot 7-424. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 259 of 337

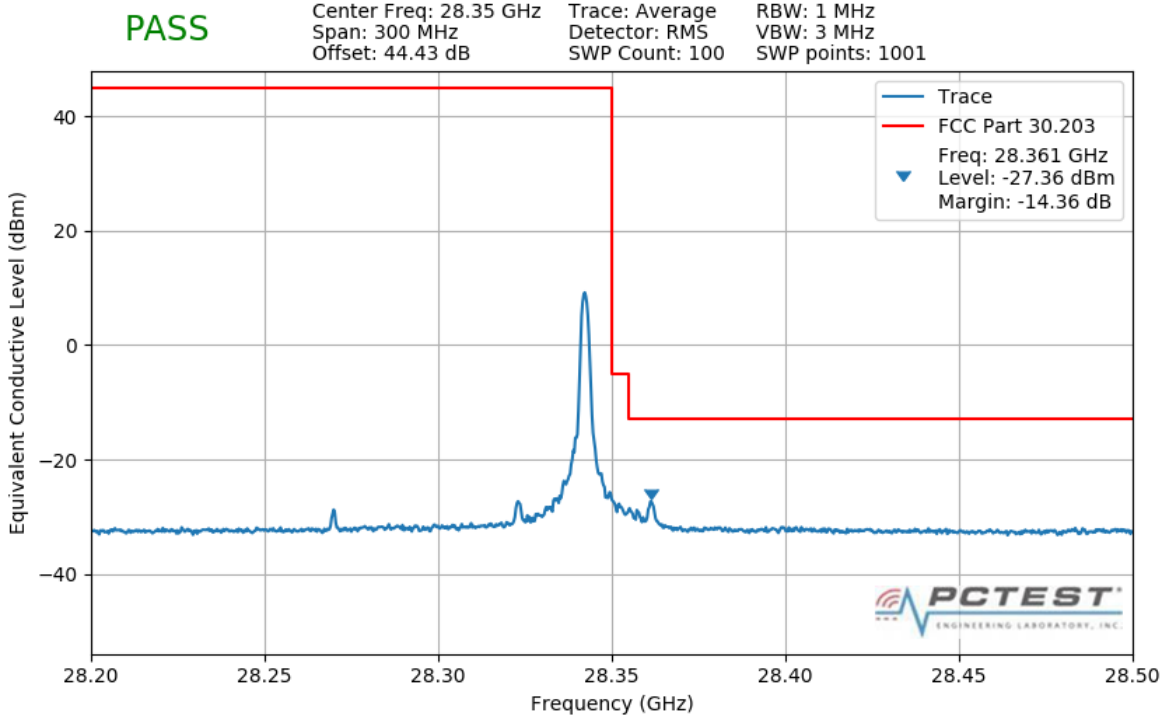


Plot 7-425. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)

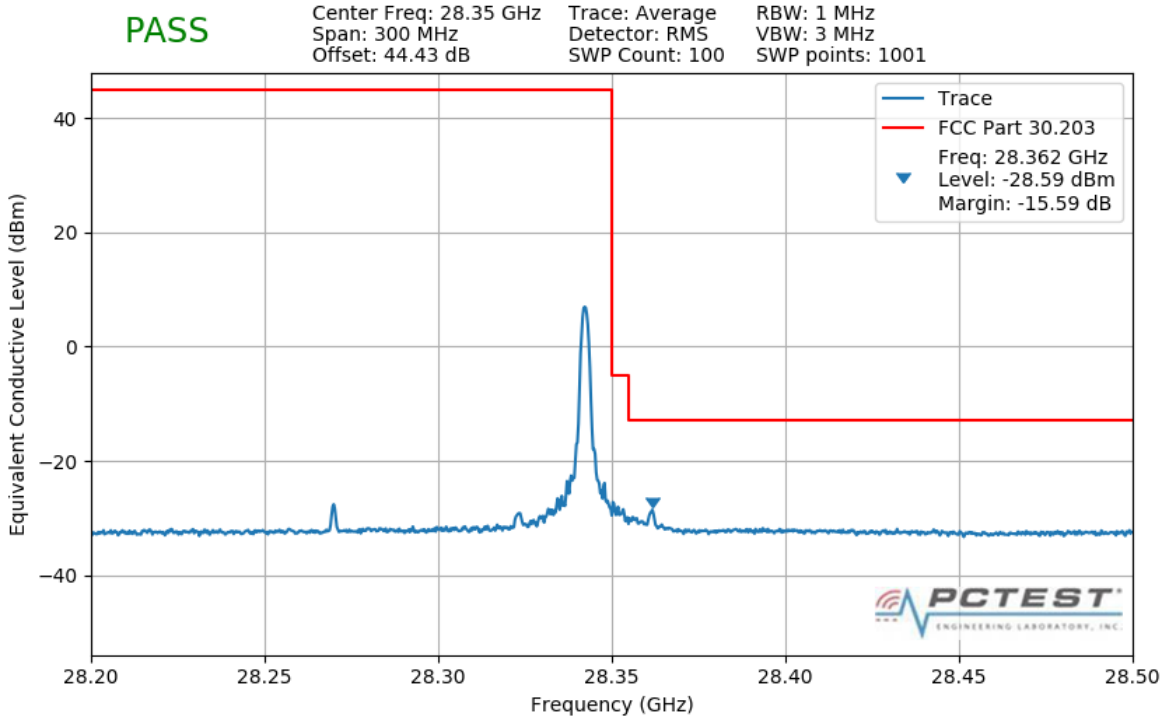


Plot 7-426. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 260 of 337

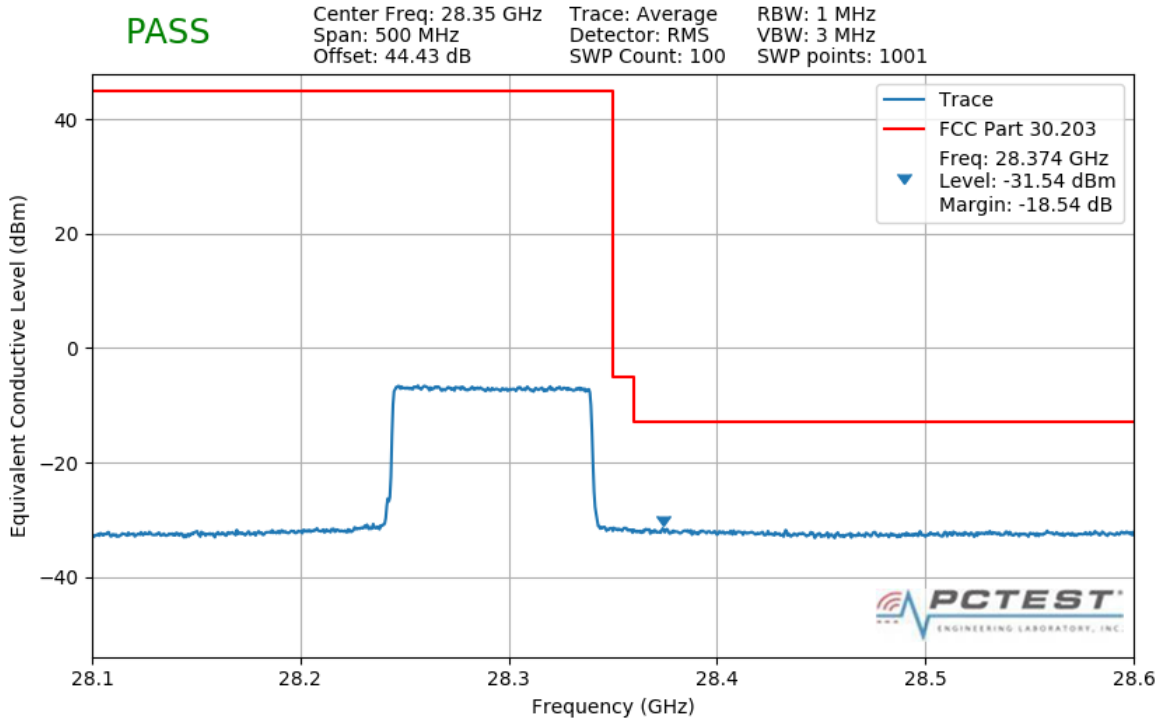


Plot 7-427. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)

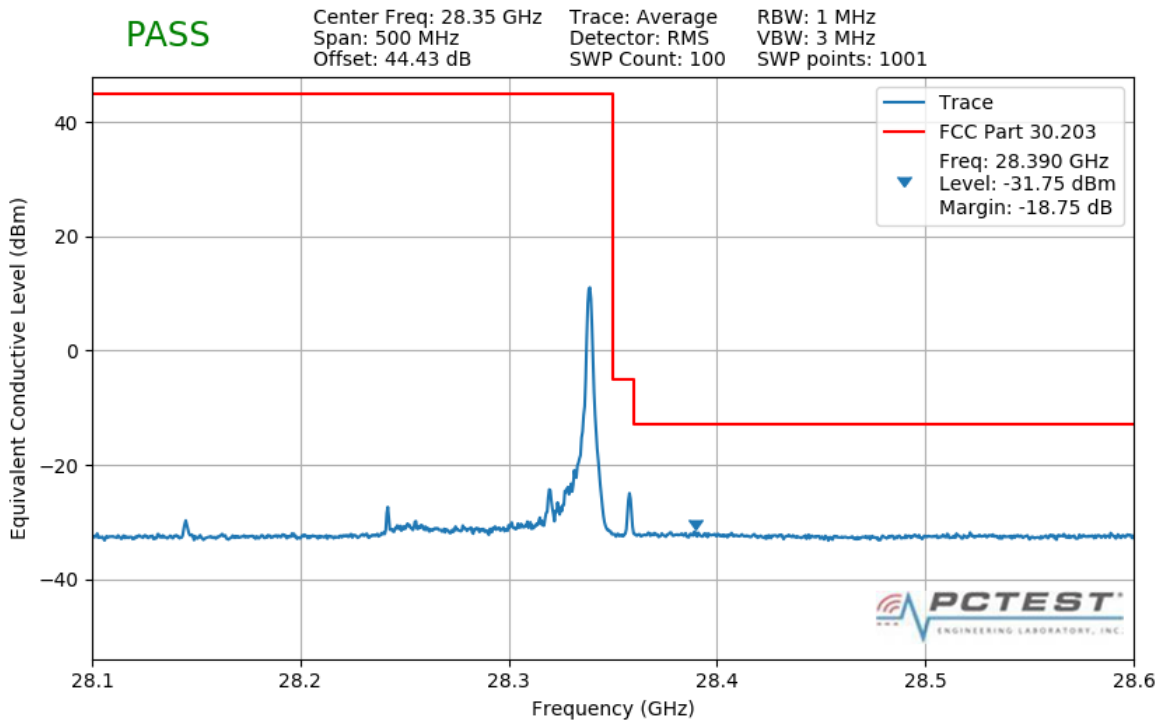


Plot 7-428. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 261 of 337

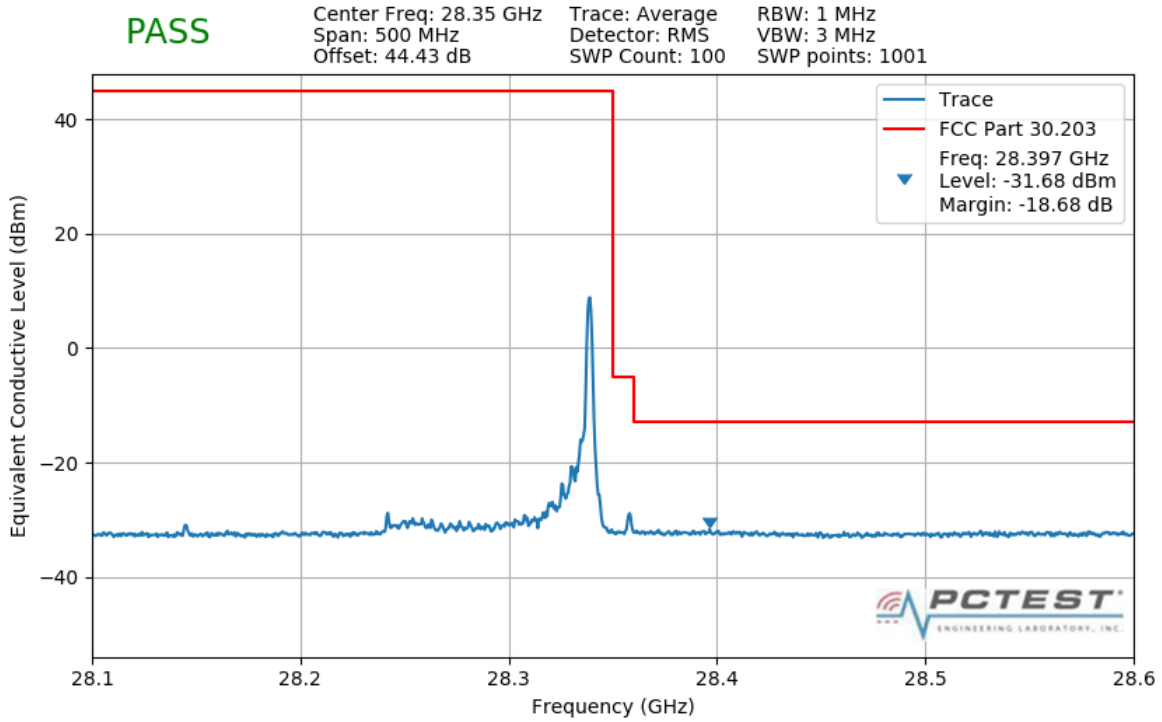


Plot 7-429. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)

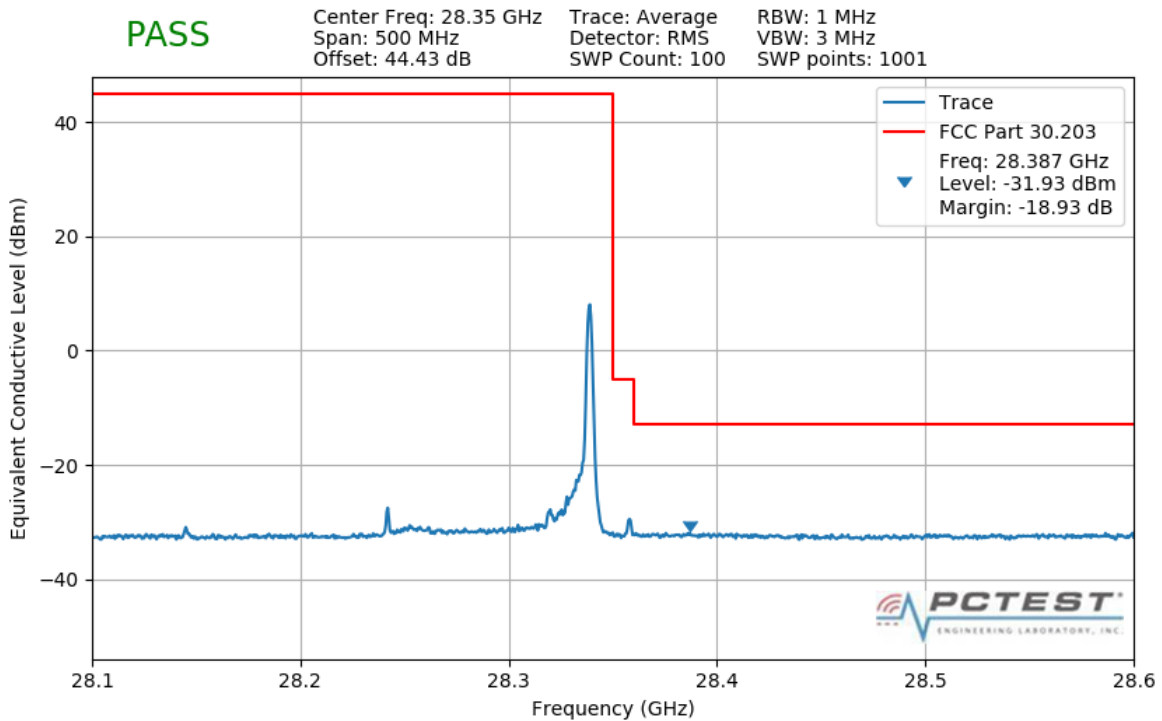


Plot 7-430. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 262 of 337

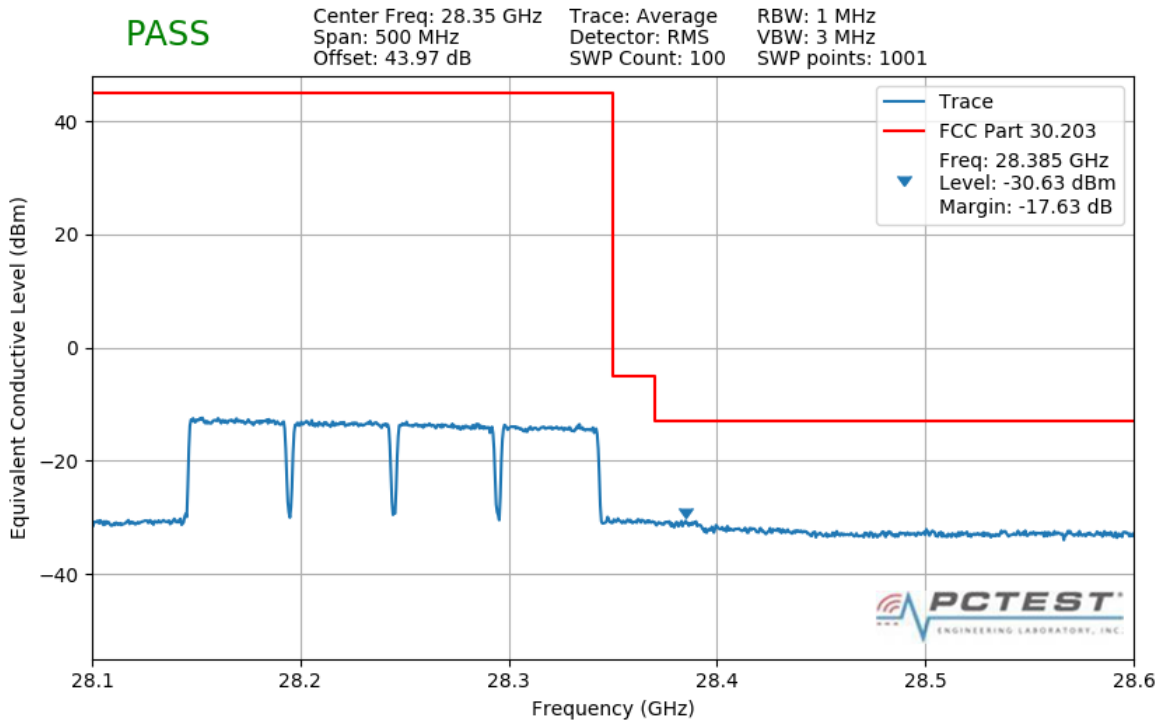


Plot 7-431. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)

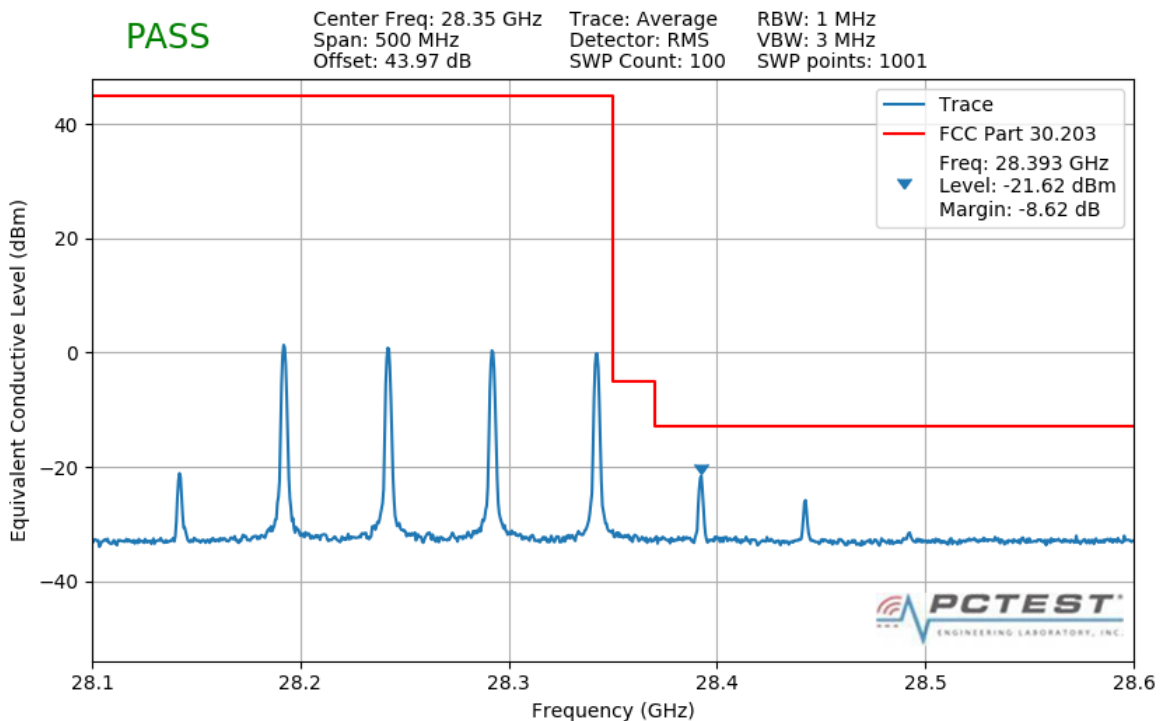


Plot 7-432. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 263 of 337

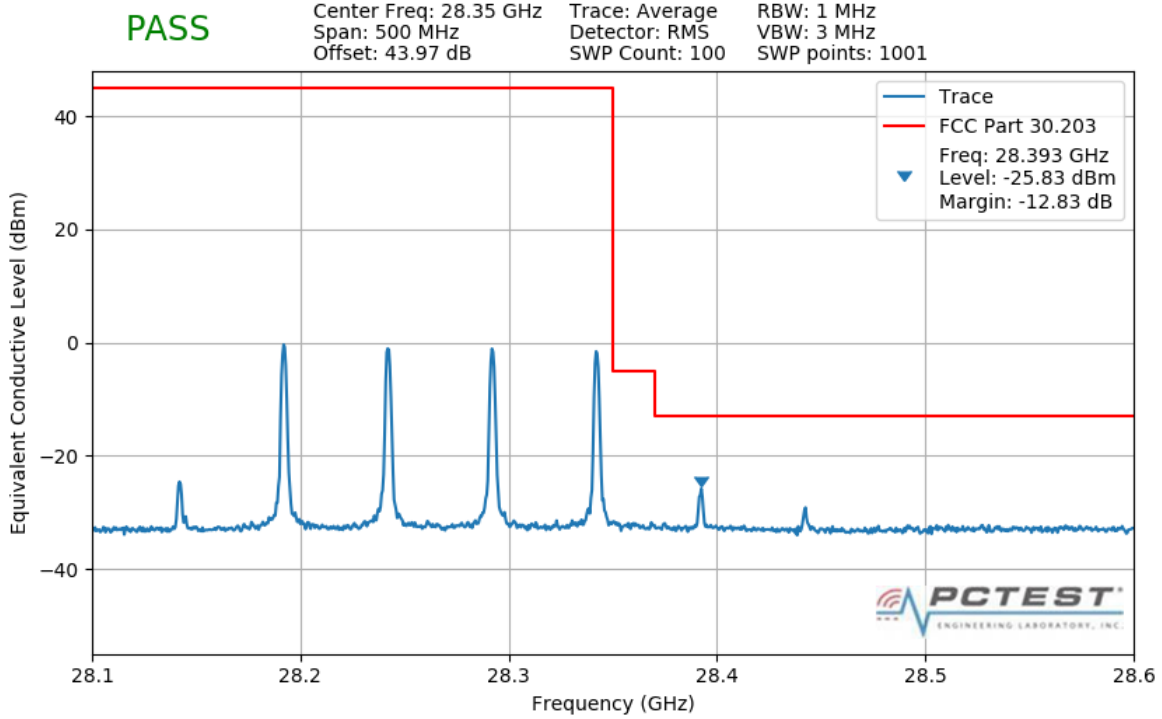


Plot 7-433. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)

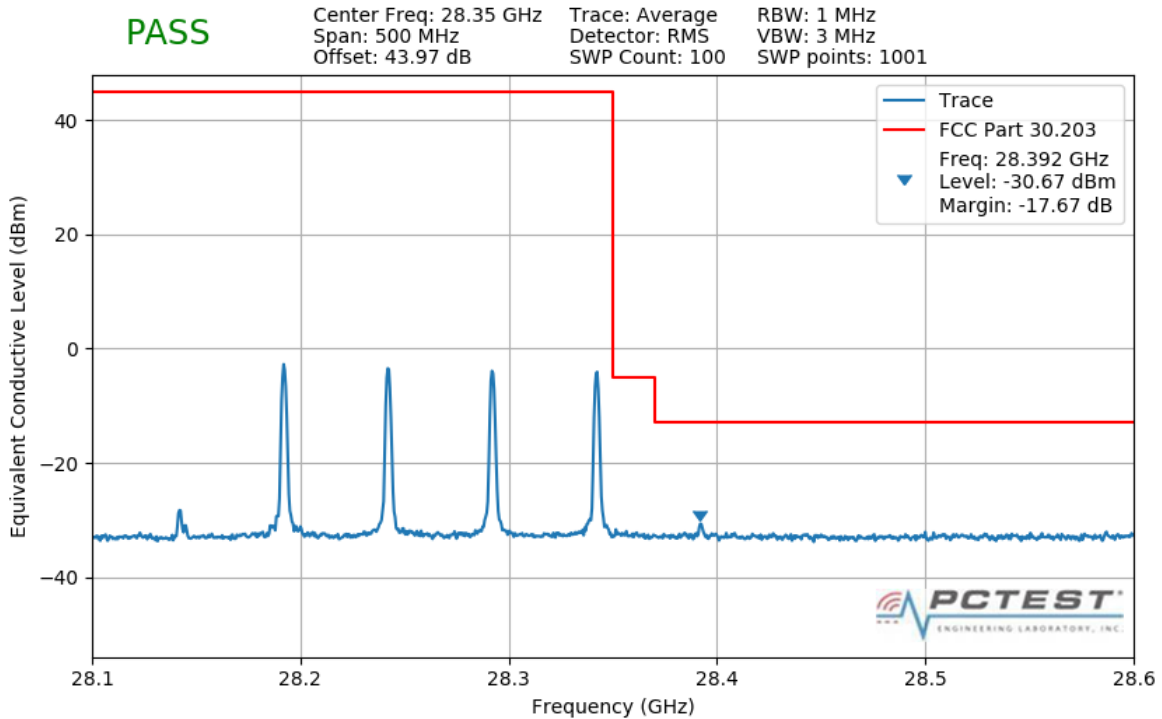


Plot 7-434. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 264 of 337

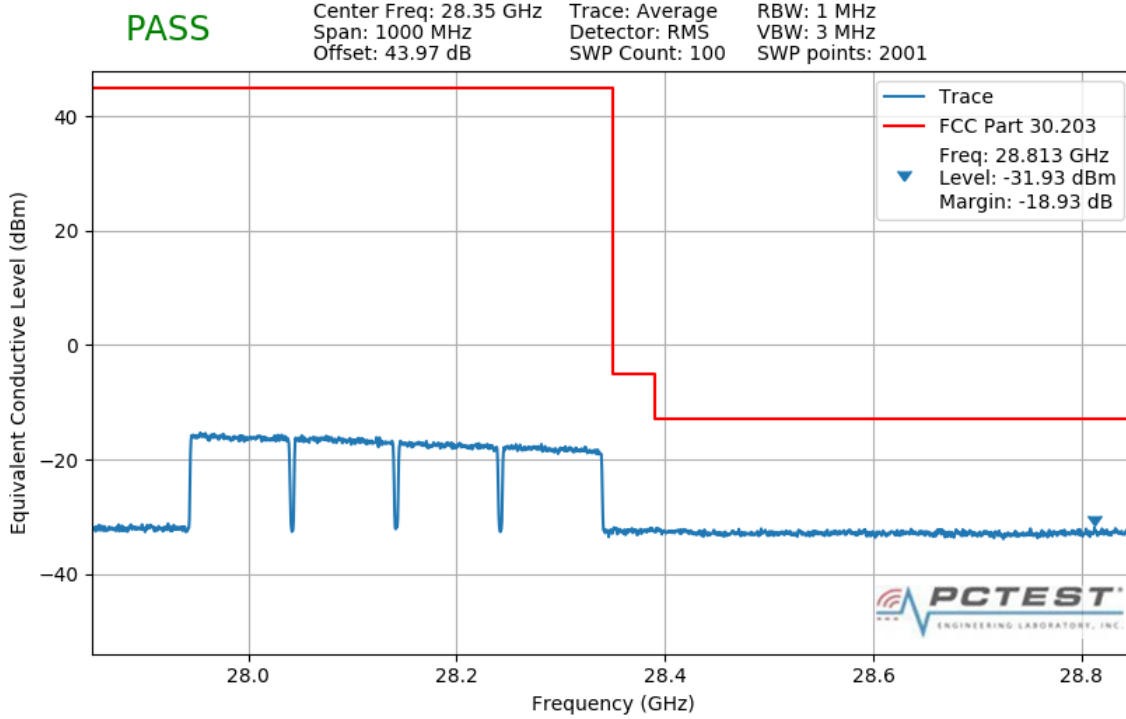


Plot 7-435. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)

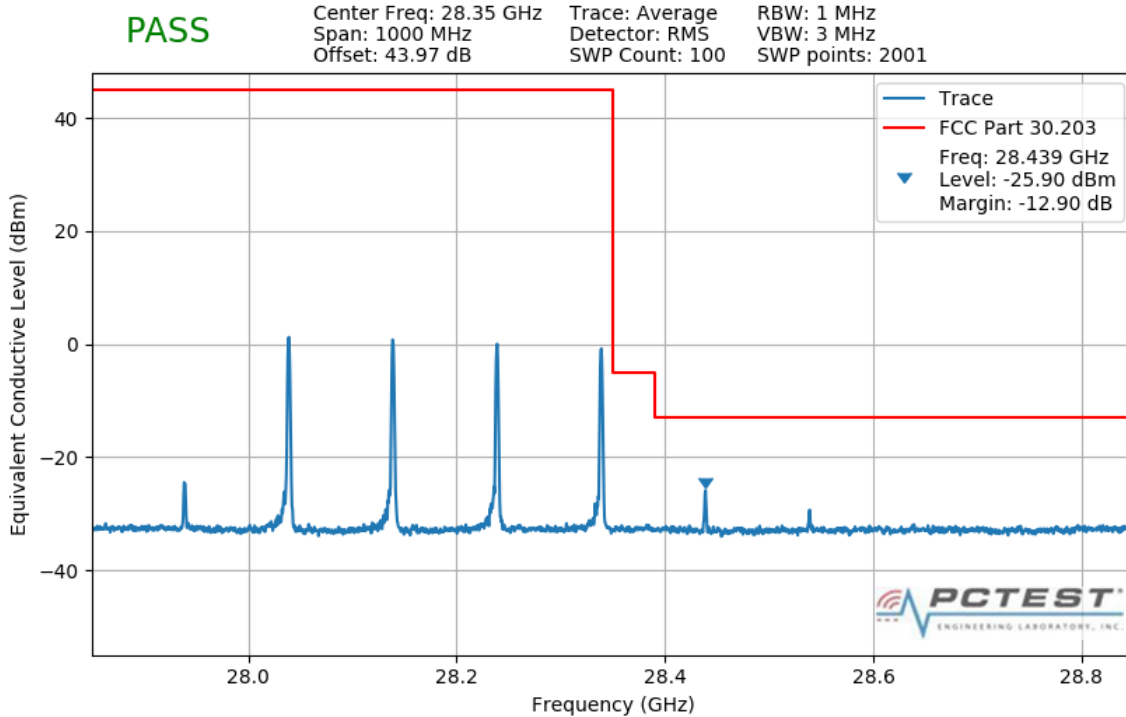


Plot 7-436. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 265 of 337

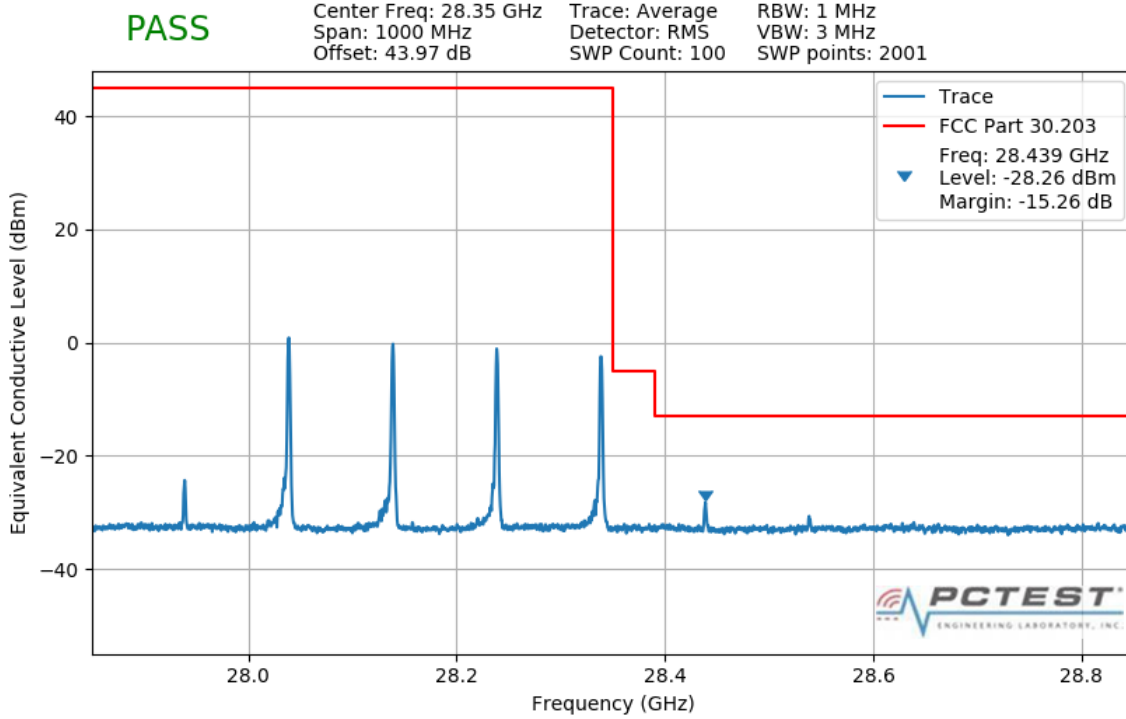


Plot 7-437. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)

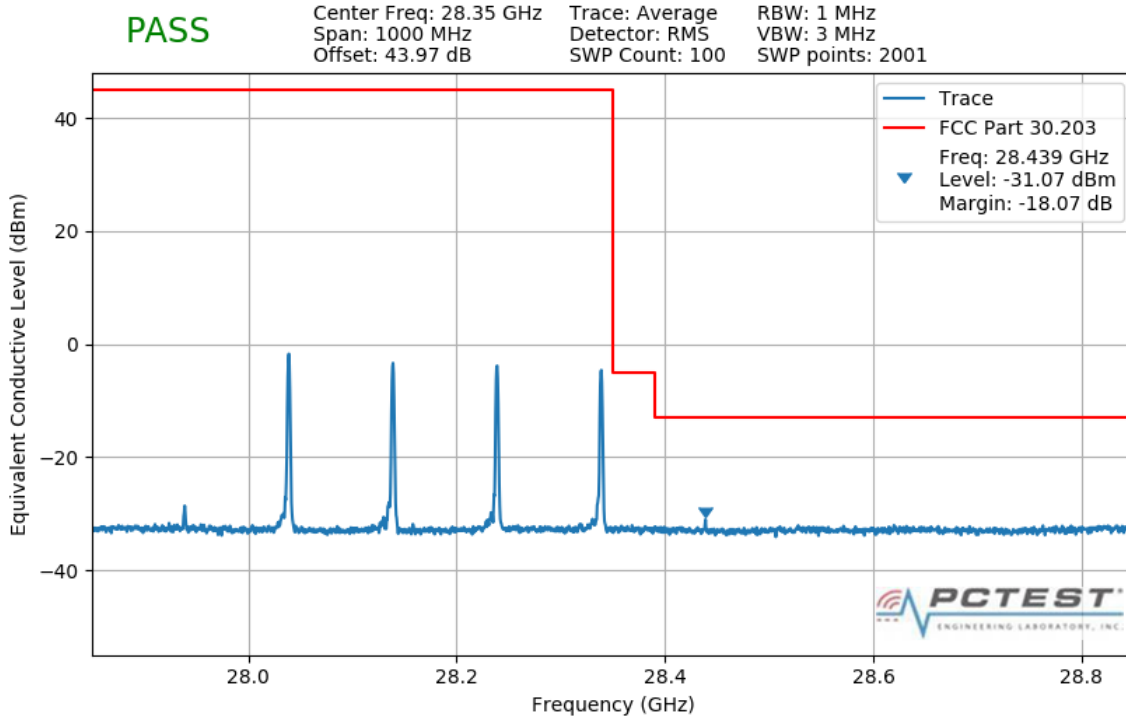


Plot 7-438. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 266 of 337



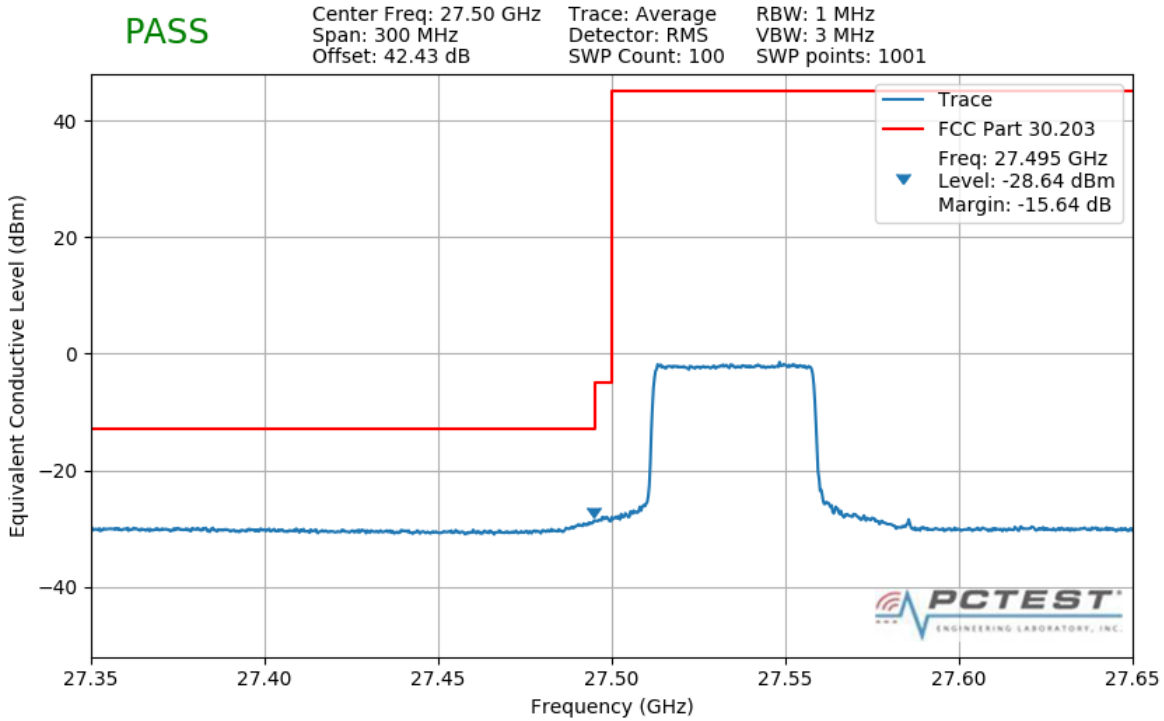
Plot 7-439. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



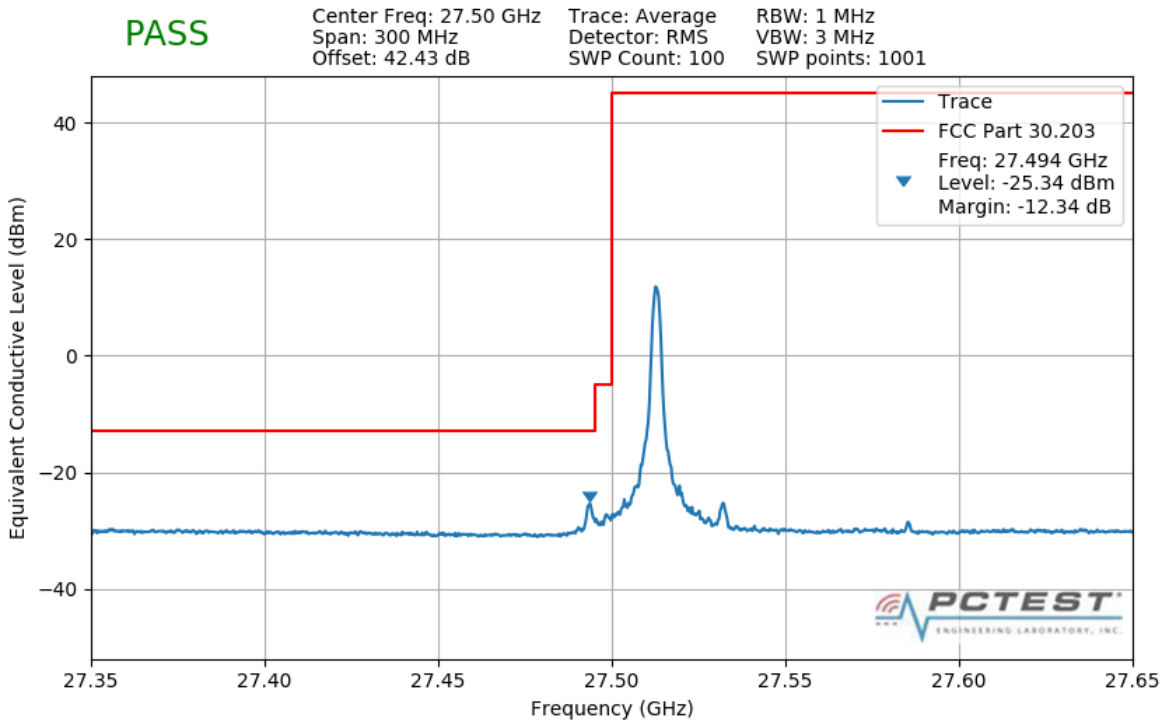
Plot 7-440. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 267 of 337

MIMO

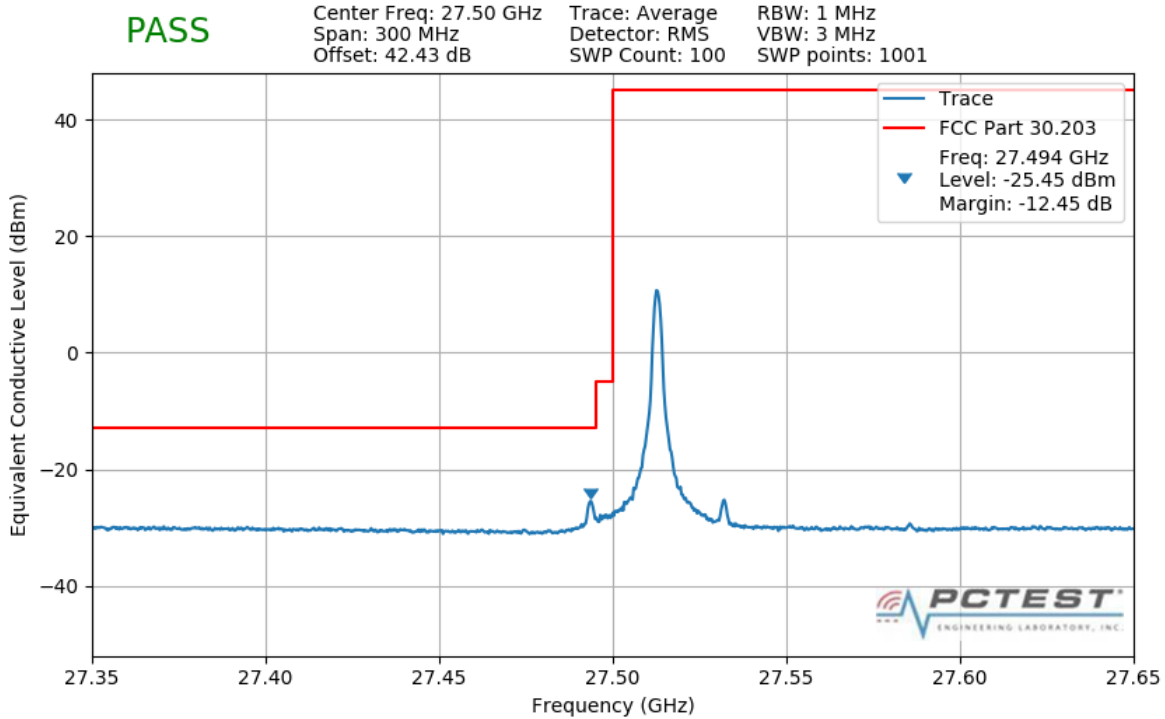


Plot 7-441. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)

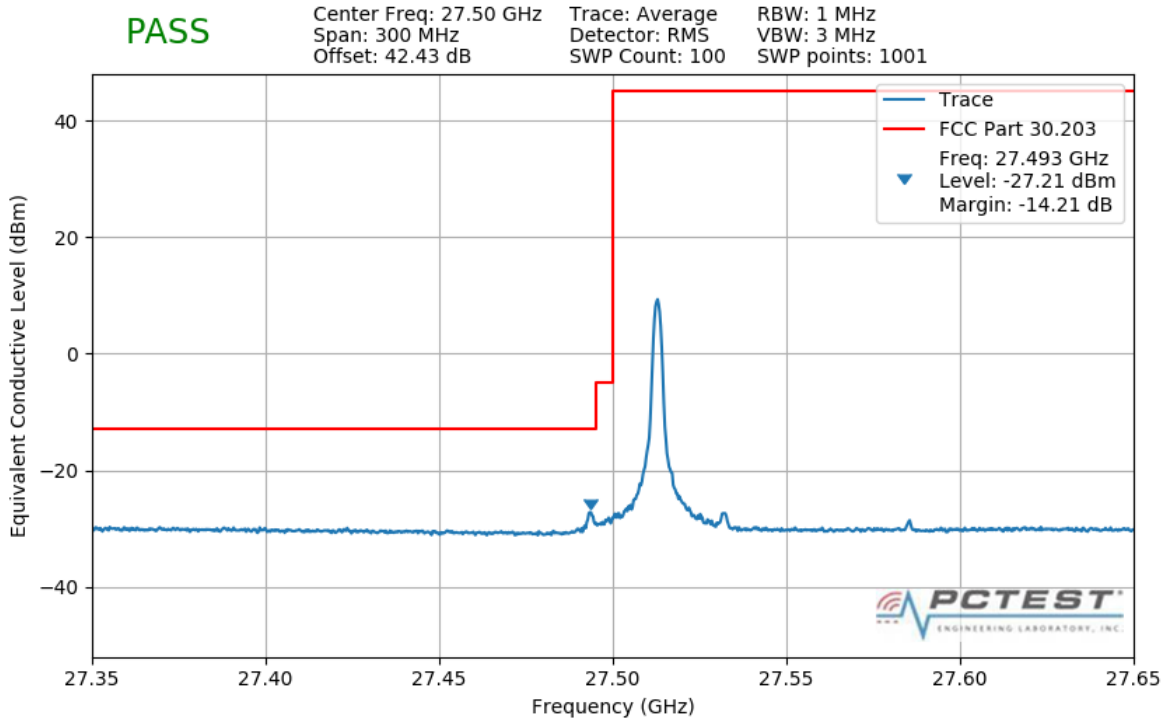


Plot 7-442. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 268 of 337

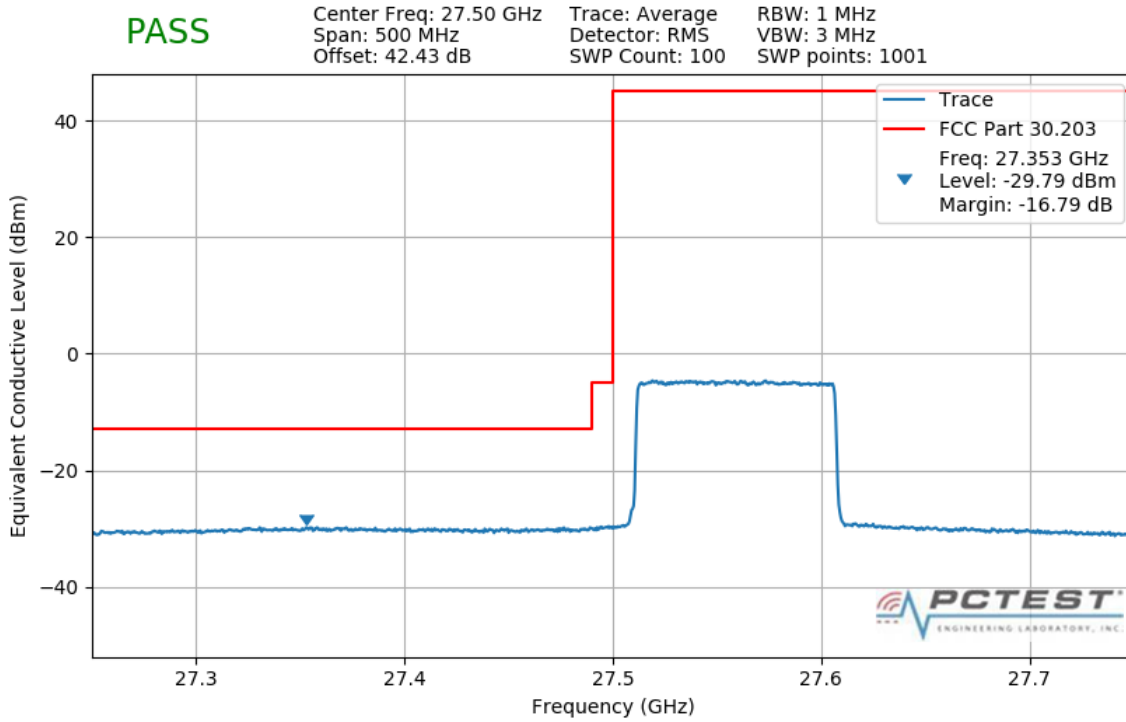


Plot 7-443. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)

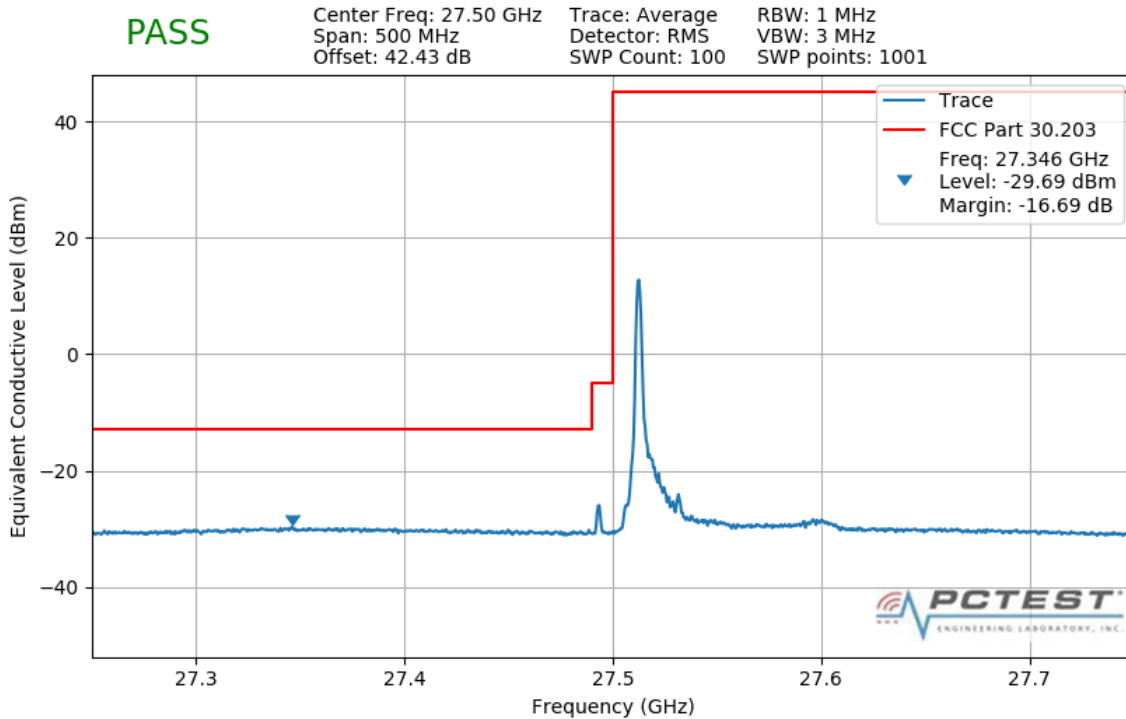


Plot 7-444. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 269 of 337



Plot 7-445. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



Plot 7-446. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901100003-06-R1.A3L	Test Dates: 01/22/2019 - 03/25/2019	EUT Type: Portable Handset		Page 270 of 337