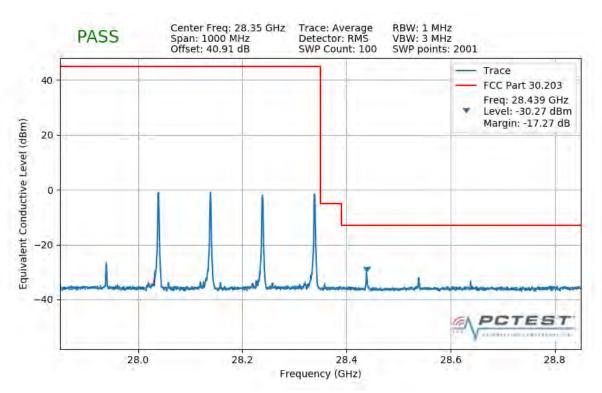


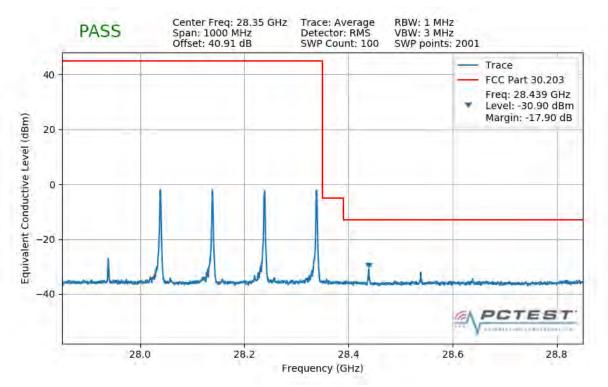
Plot 7-341. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



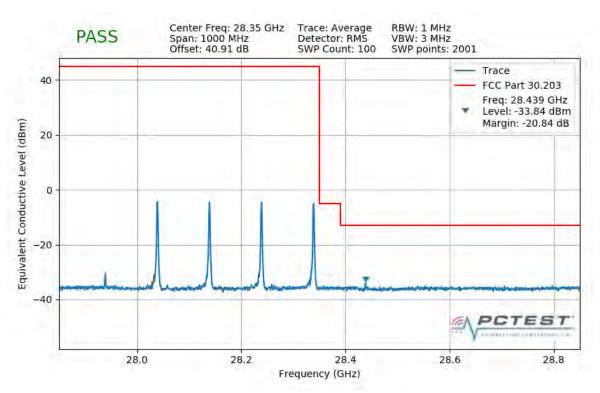
Plot 7-342. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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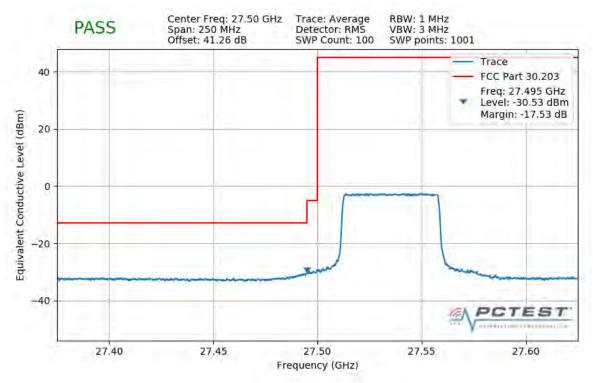
Plot 7-343. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



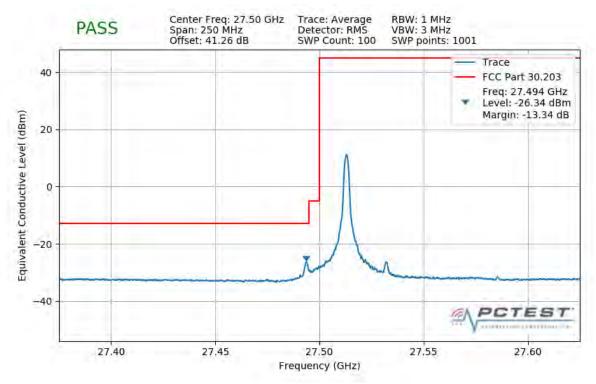
Plot 7-344. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE LANDES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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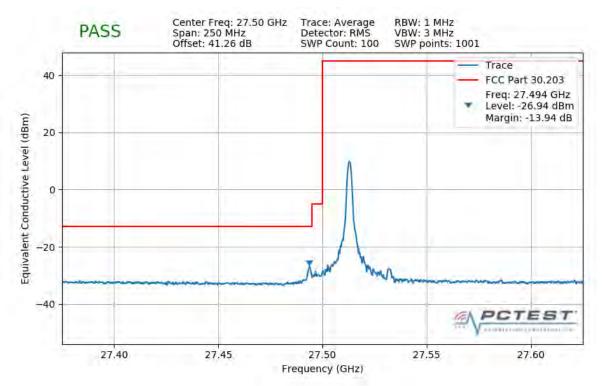
Plot 7-345. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



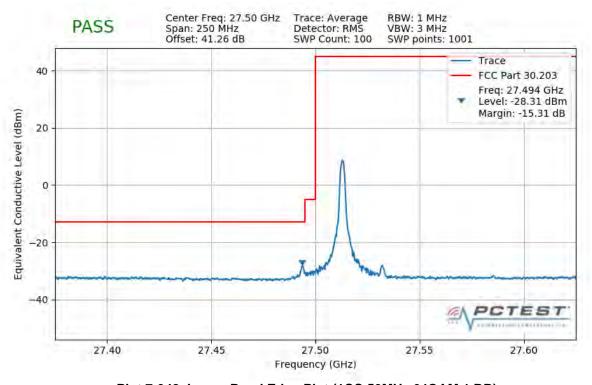
Plot 7-346. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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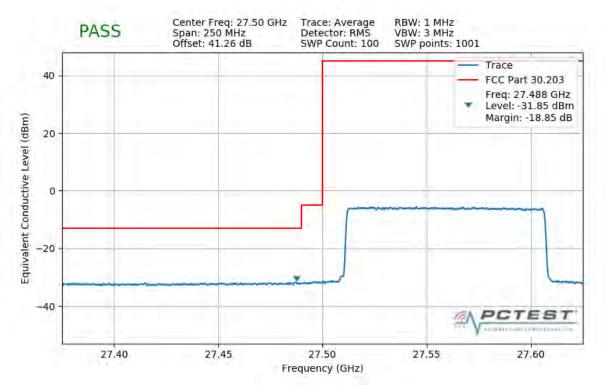
Plot 7-347. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



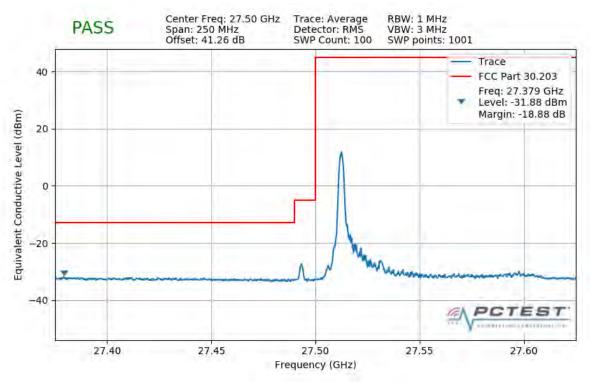
Plot 7-348. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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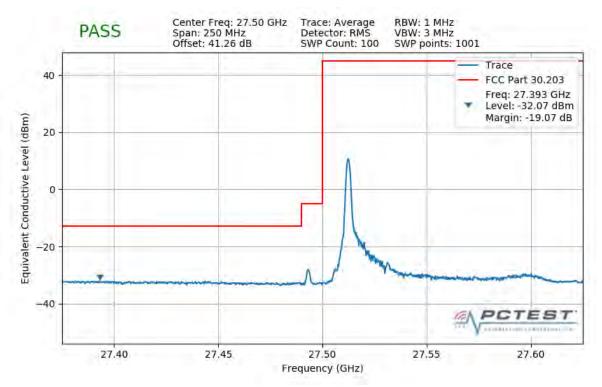
Plot 7-349. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



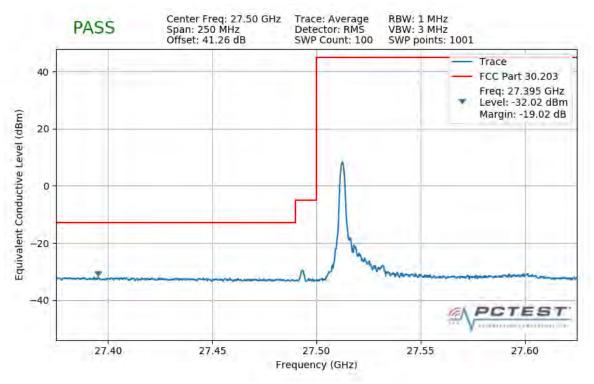
Plot 7-350. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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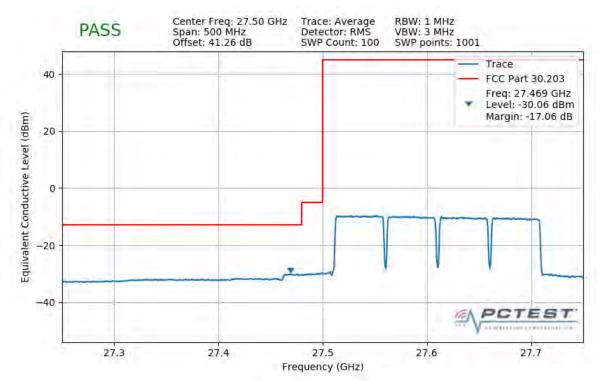
Plot 7-351. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



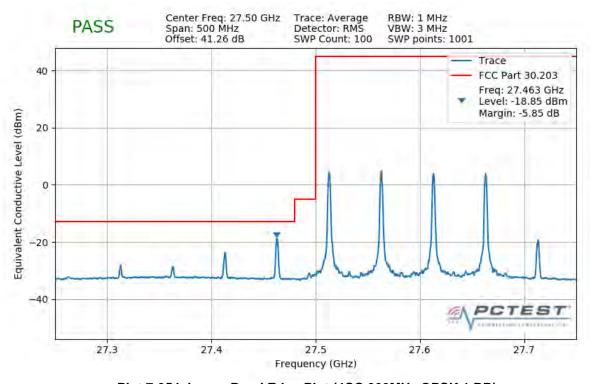
Plot 7-352. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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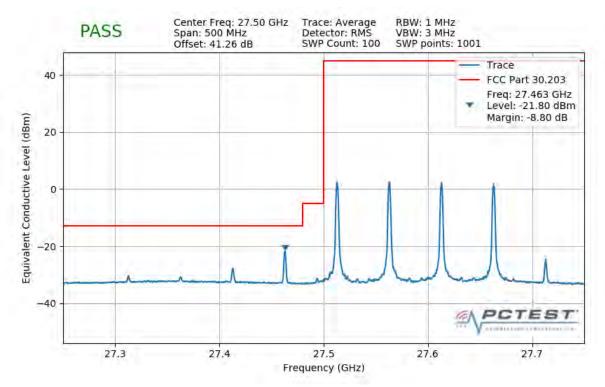
Plot 7-353. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



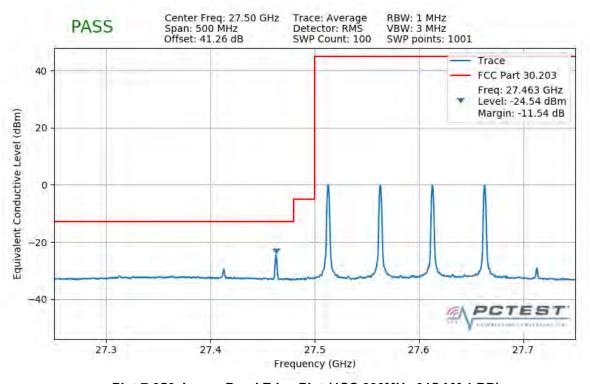
Plot 7-354. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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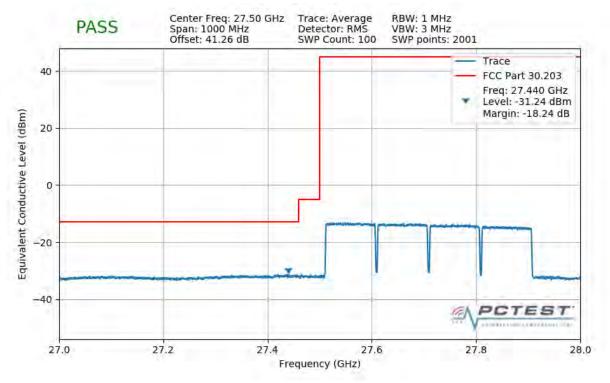
Plot 7-355. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



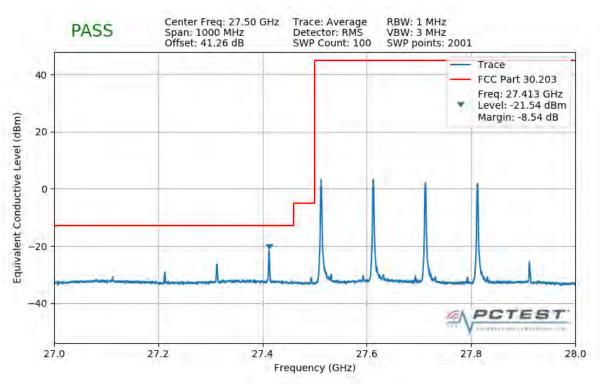
Plot 7-356. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE LANDES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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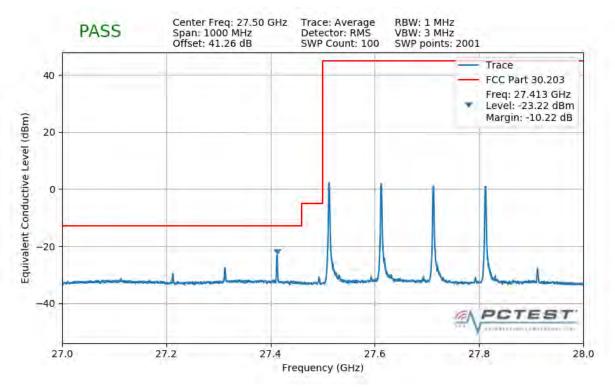
Plot 7-357. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



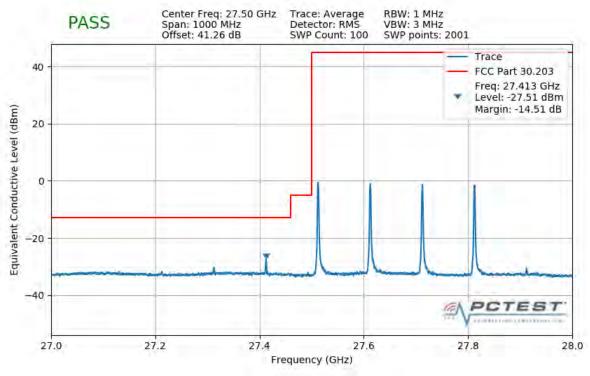
Plot 7-358. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE LANDES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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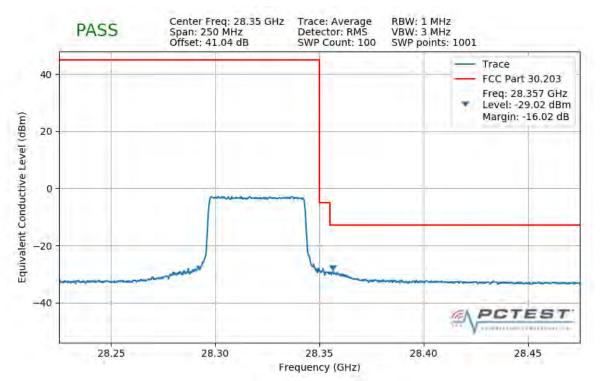
Plot 7-359. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



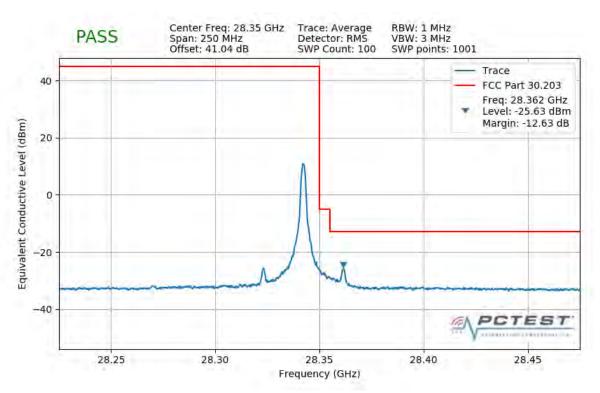
Plot 7-360. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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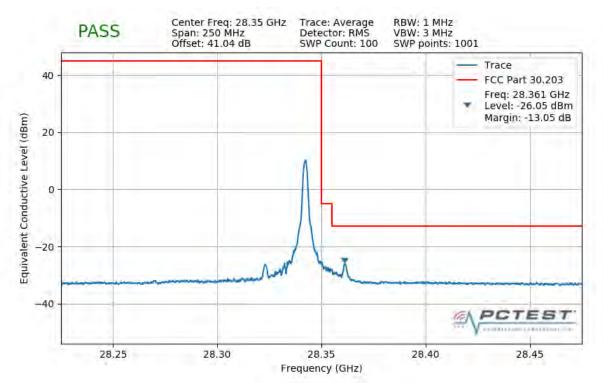
Plot 7-361. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



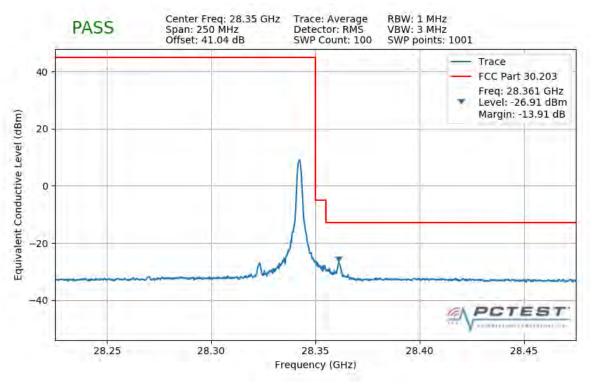
Plot 7-362. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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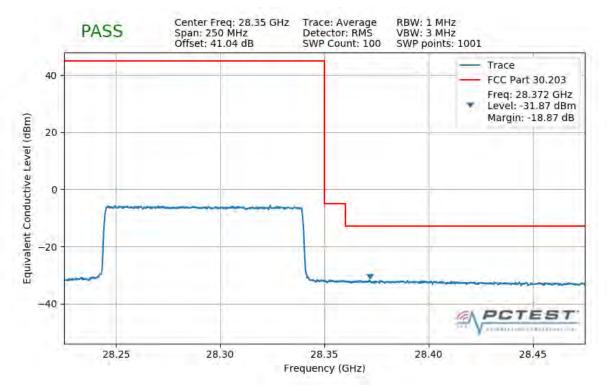
Plot 7-363. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



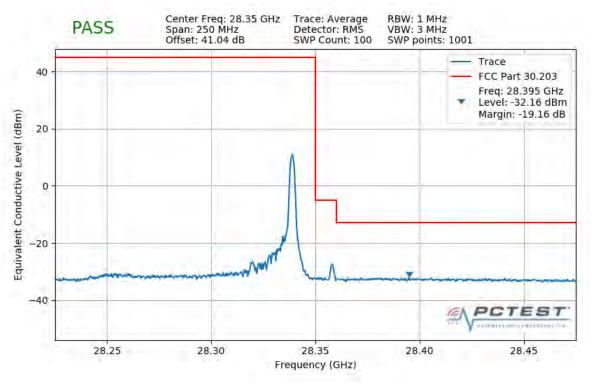
Plot 7-364. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST TECHNICISMENT IN	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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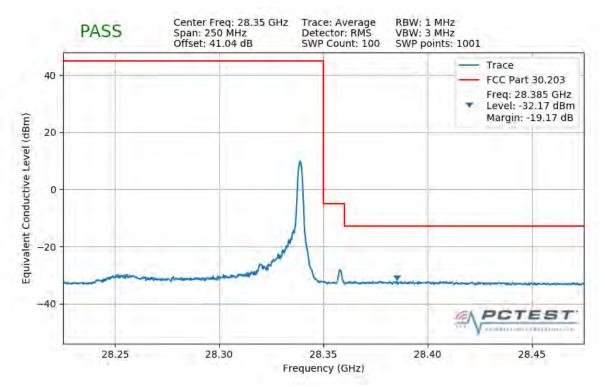
Plot 7-365. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



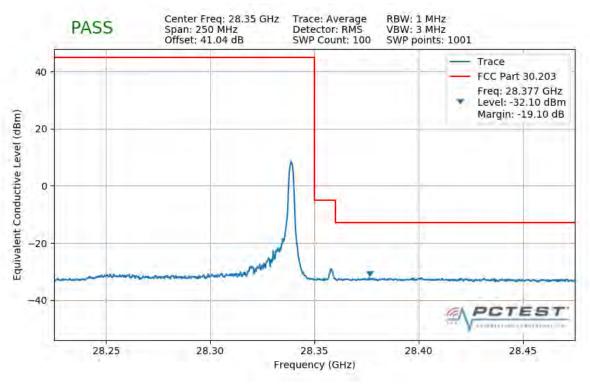
Plot 7-366. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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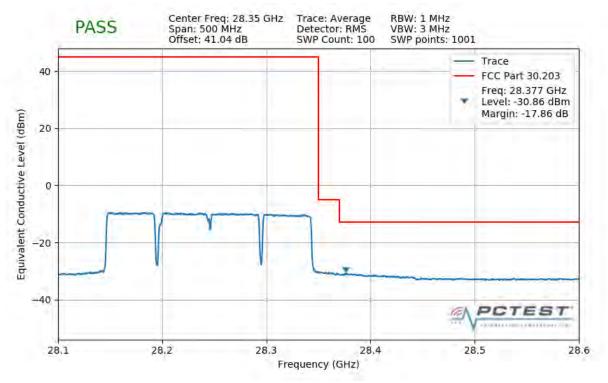
Plot 7-367. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



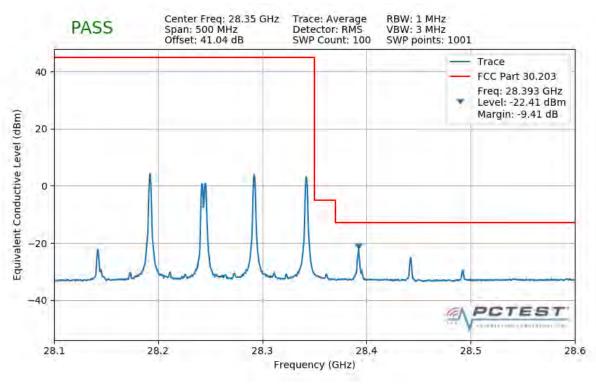
Plot 7-368. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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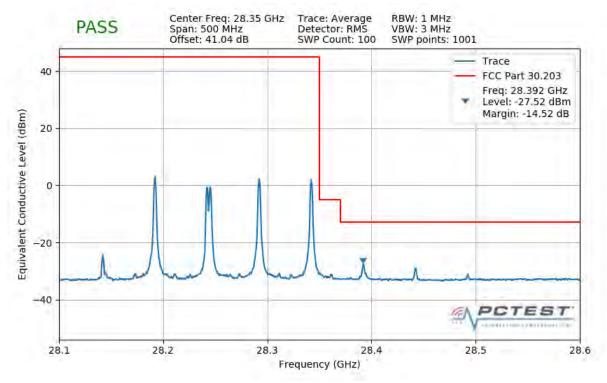
Plot 7-369. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



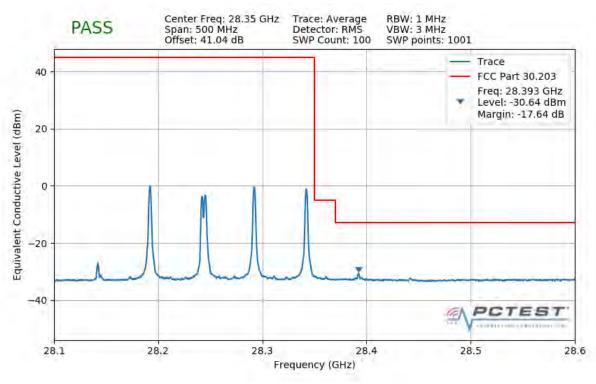
Plot 7-370. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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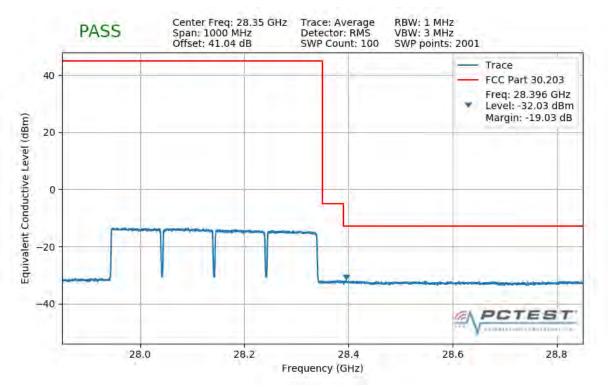
Plot 7-371. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



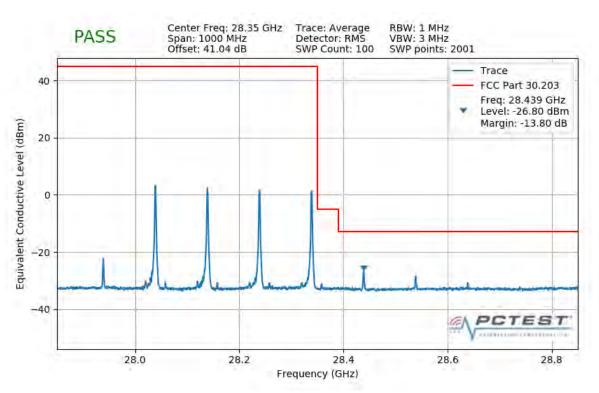
Plot 7-372. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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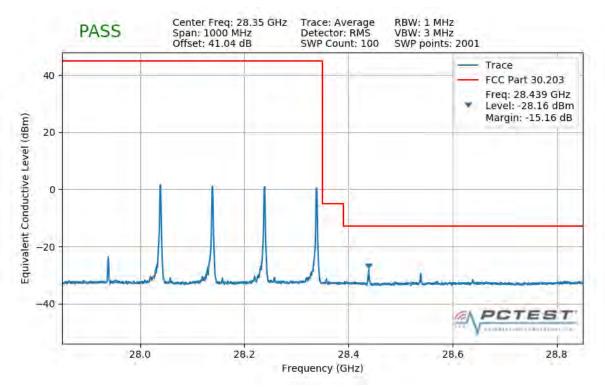
Plot 7-373. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



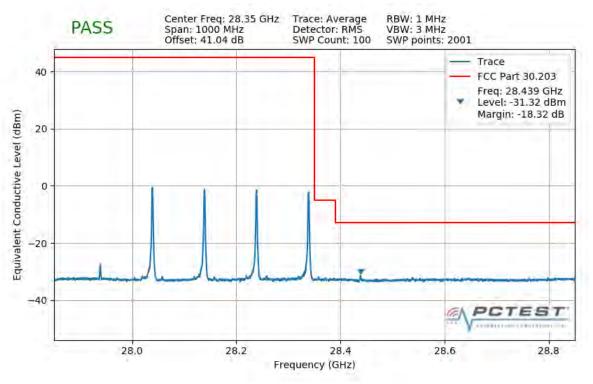
Plot 7-374. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-375. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

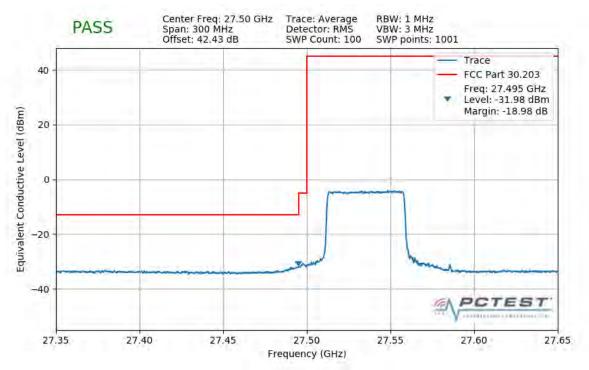


Plot 7-376. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

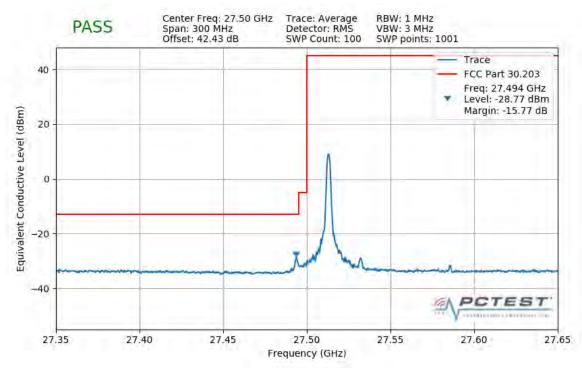
FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 7.5.4 K Patch Band Edge H Beam



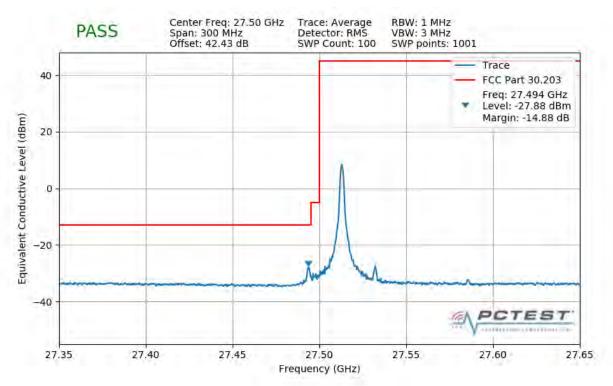
Plot 7-377. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



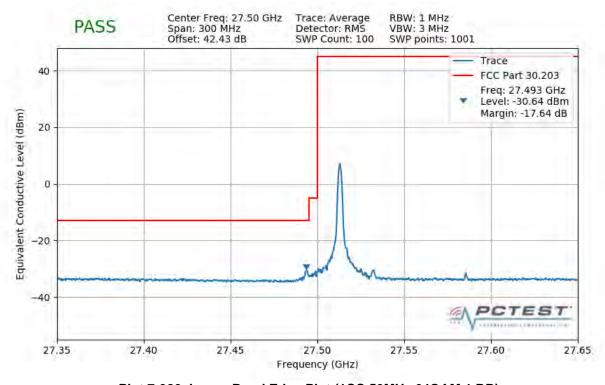
Plot 7-378. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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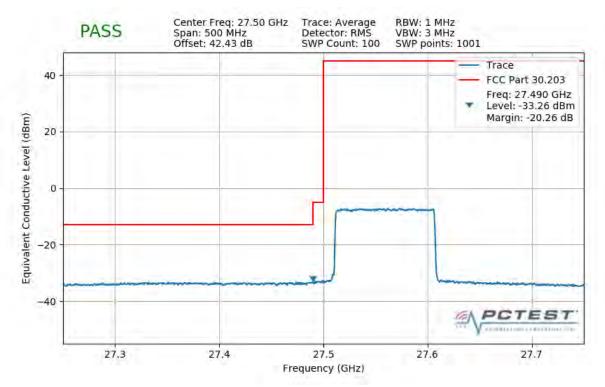
Plot 7-379. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



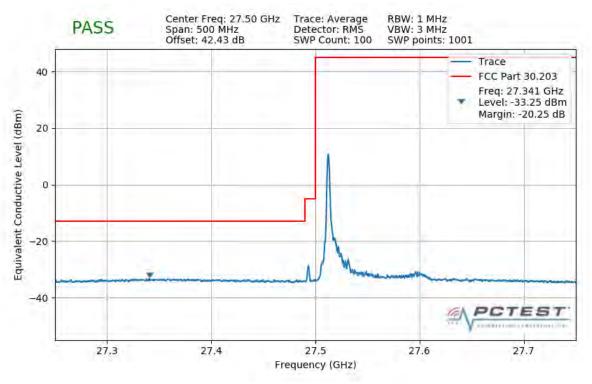
Plot 7-380. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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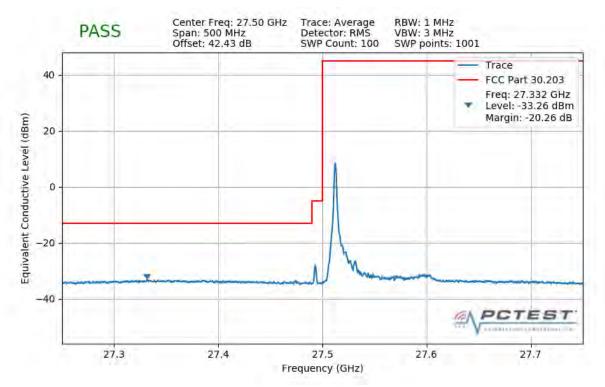
Plot 7-381. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



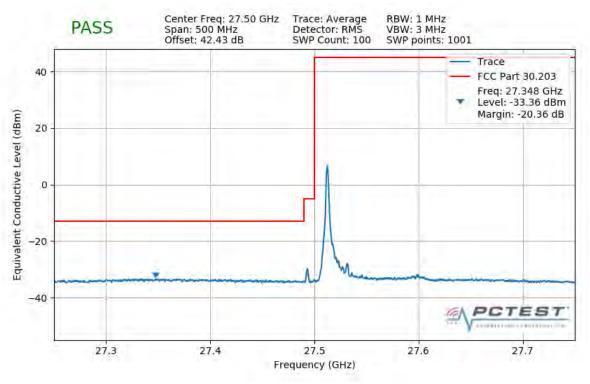
Plot 7-382. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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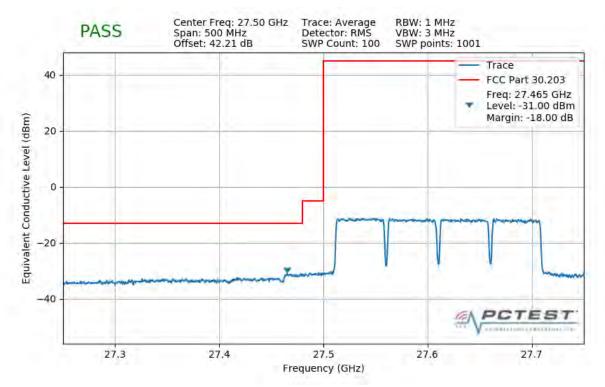
Plot 7-383. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



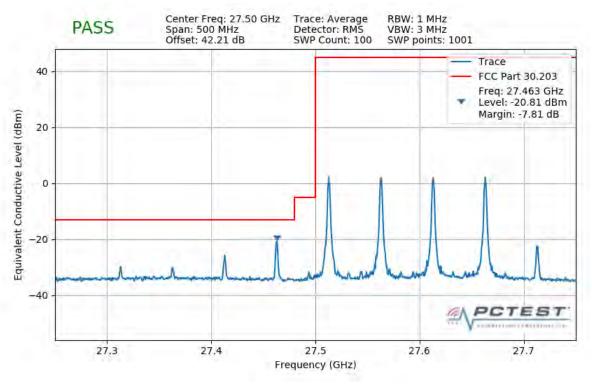
Plot 7-384. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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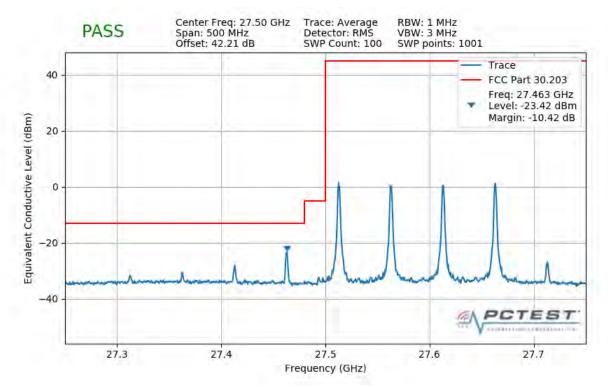
Plot 7-385. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



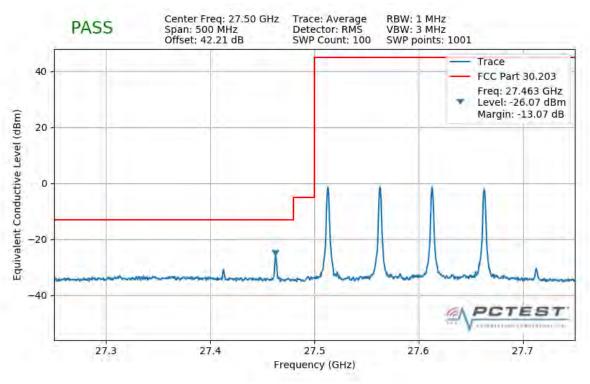
Plot 7-386. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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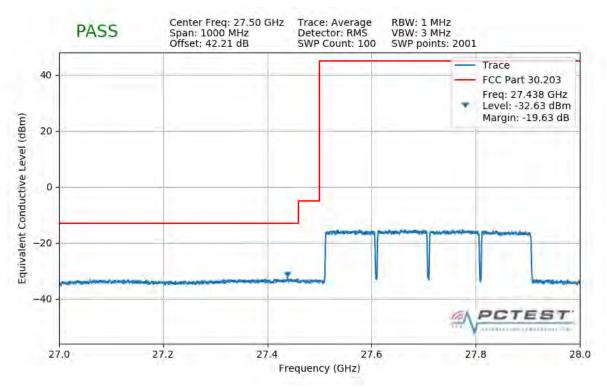
Plot 7-387. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



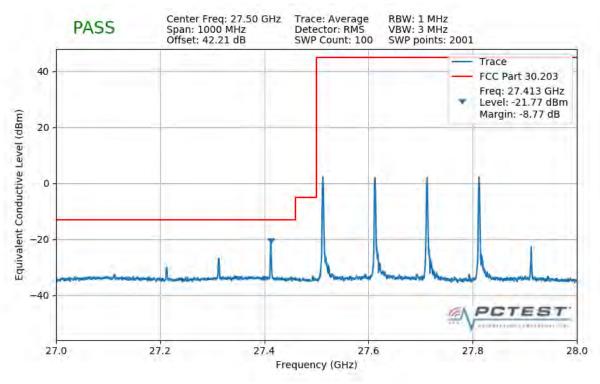
Plot 7-388. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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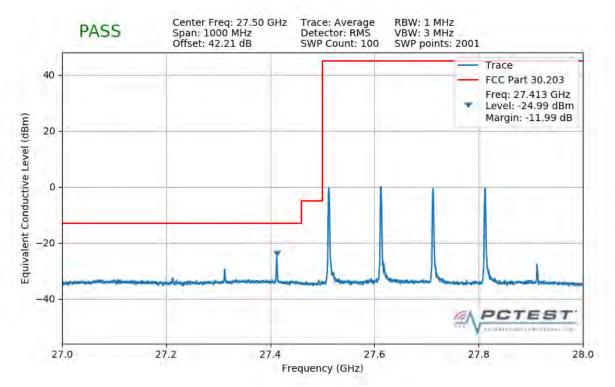
Plot 7-389. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



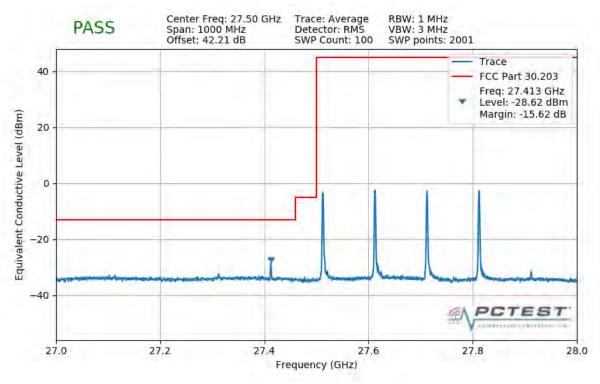
Plot 7-390. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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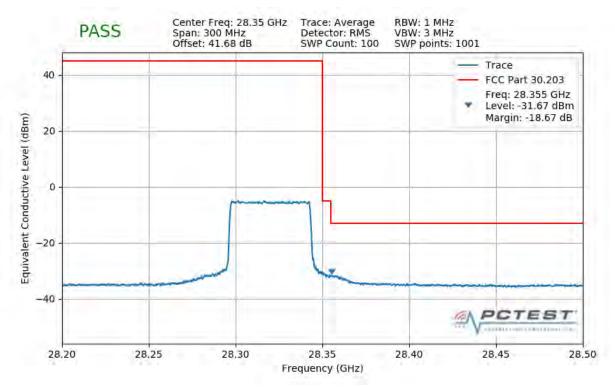
Plot 7-391. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



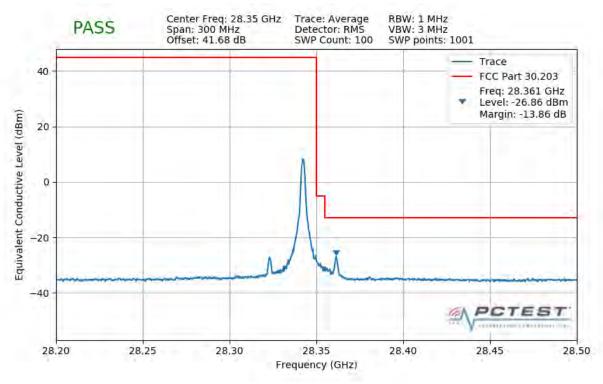
Plot 7-392. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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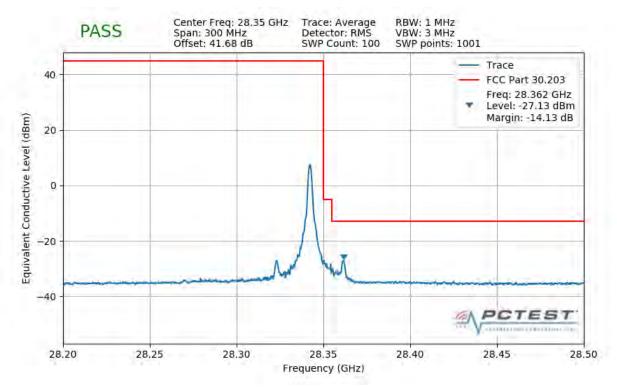
Plot 7-393. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



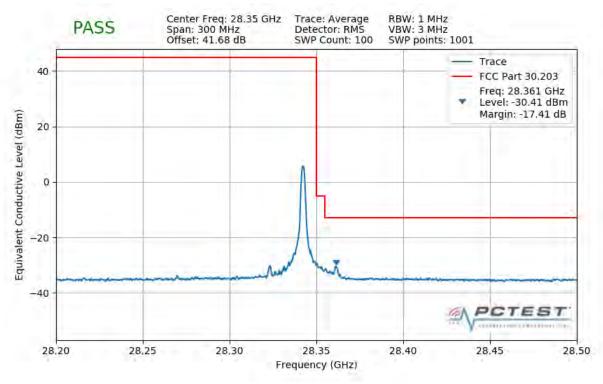
Plot 7-394. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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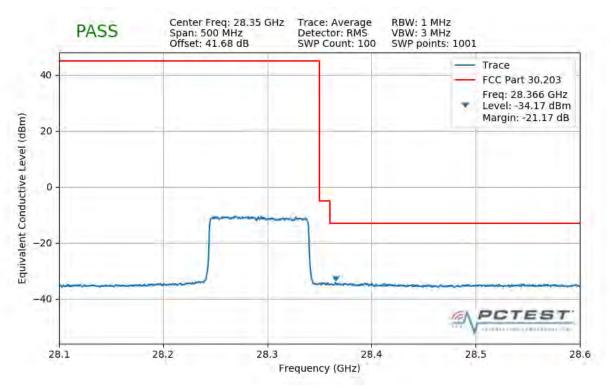
Plot 7-395. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



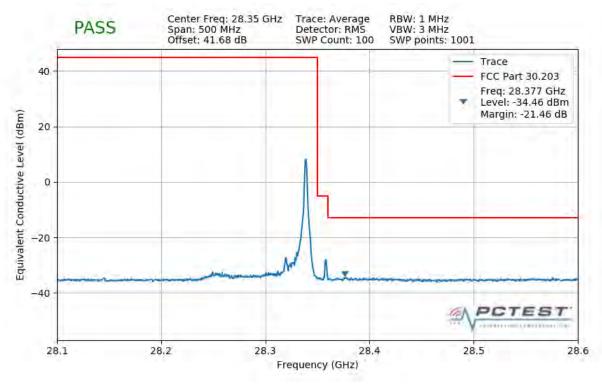
Plot 7-396. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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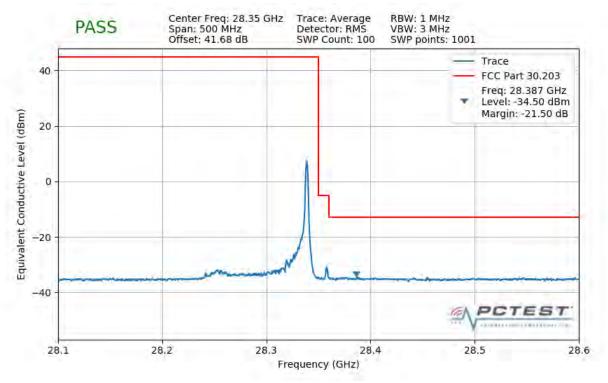
Plot 7-397. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



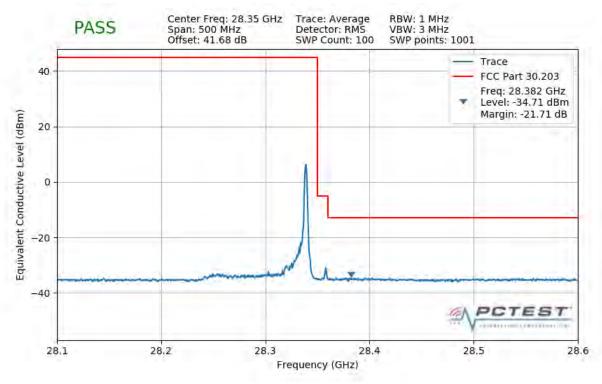
Plot 7-398. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

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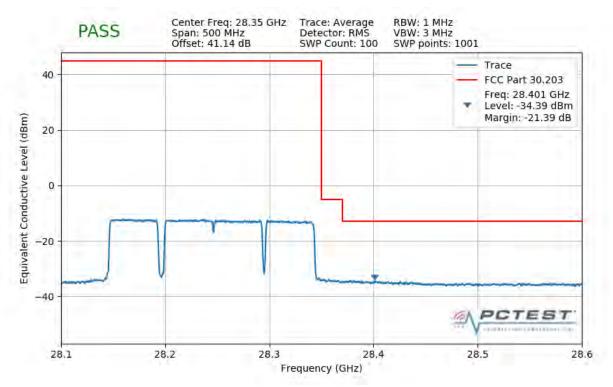
Plot 7-399. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



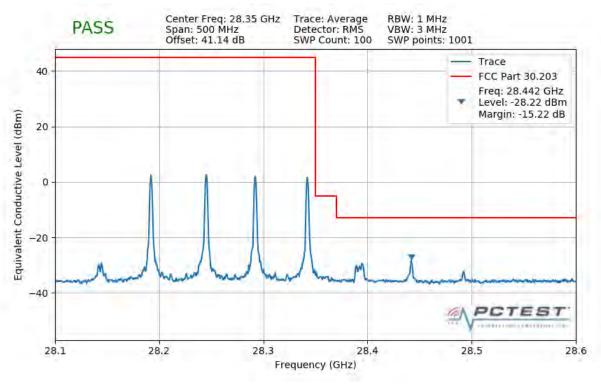
Plot 7-400. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

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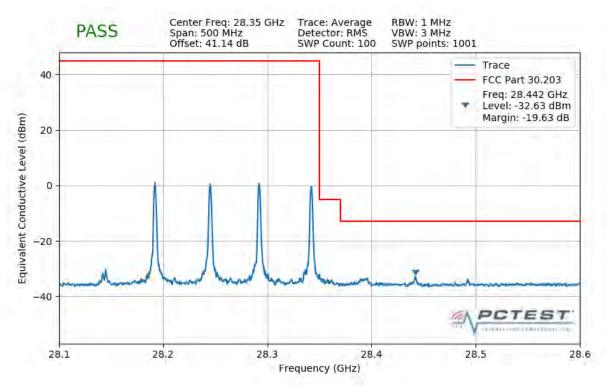
Plot 7-401. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



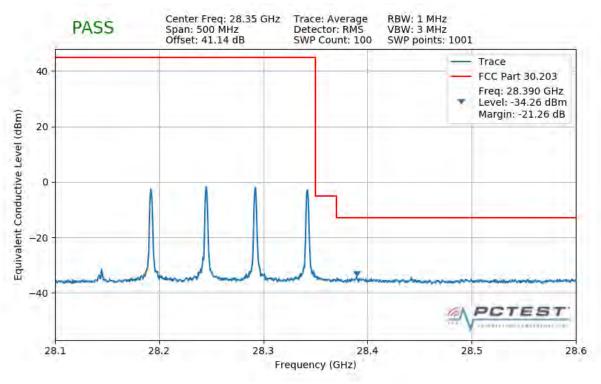
Plot 7-402. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

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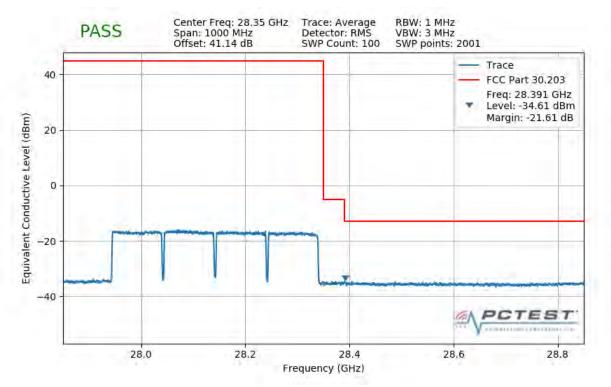
Plot 7-403. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



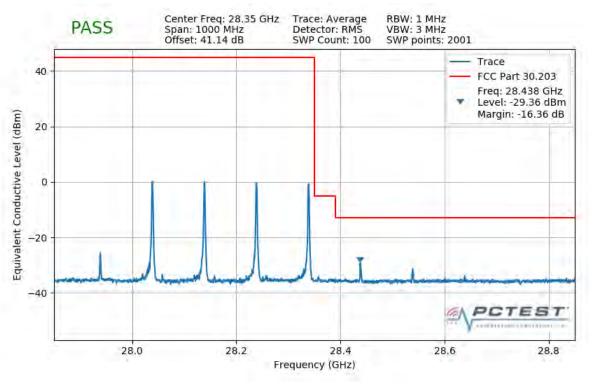
Plot 7-404. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

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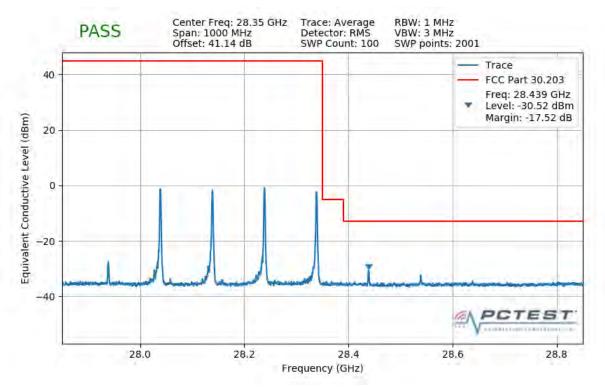
Plot 7-405. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



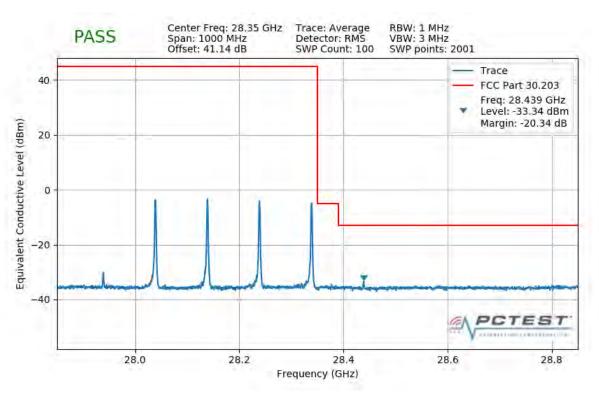
Plot 7-406. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-407. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

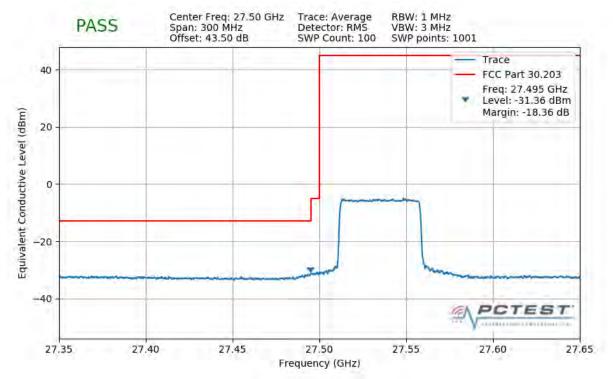


Plot 7-408. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

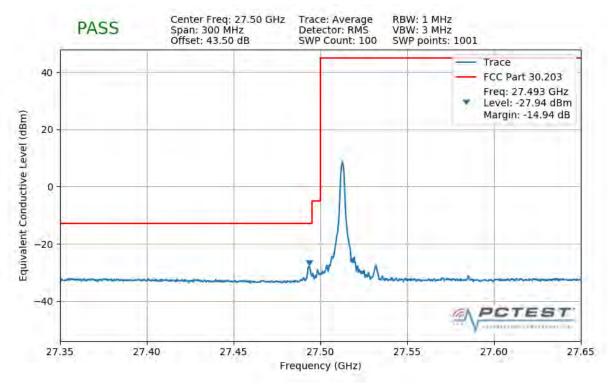
FCC ID: A3LSMG977T	PETEST TECHNICISMENT IN	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## **V** Beam



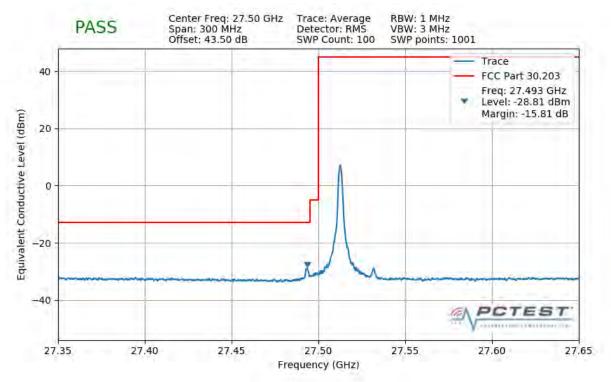
Plot 7-409. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



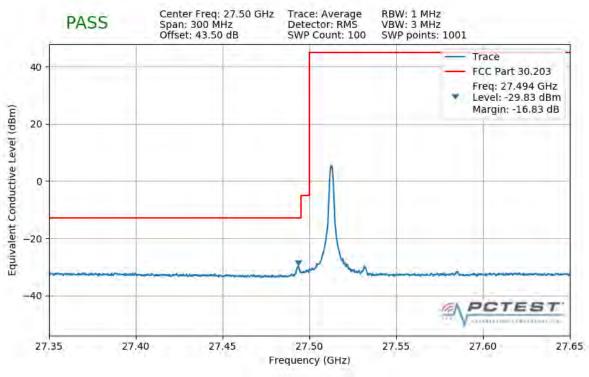
Plot 7-410. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST TECHNICIPALITY OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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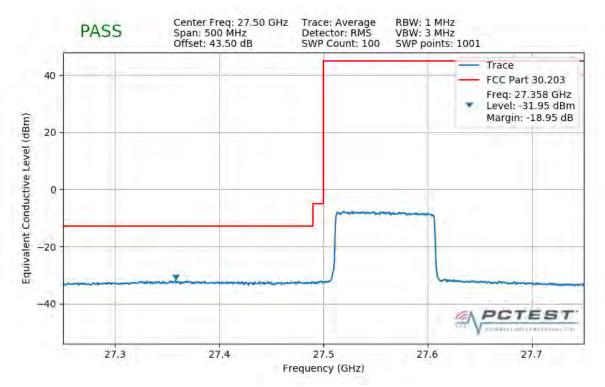
Plot 7-411. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



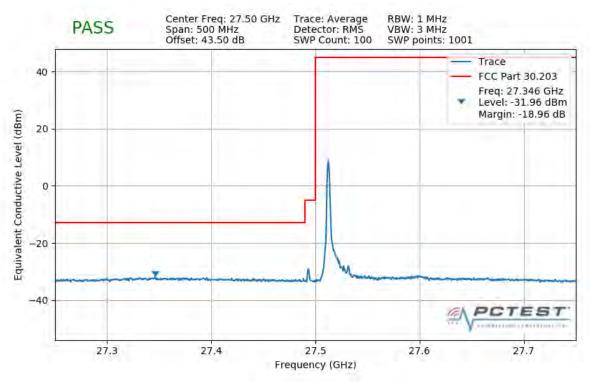
Plot 7-412. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

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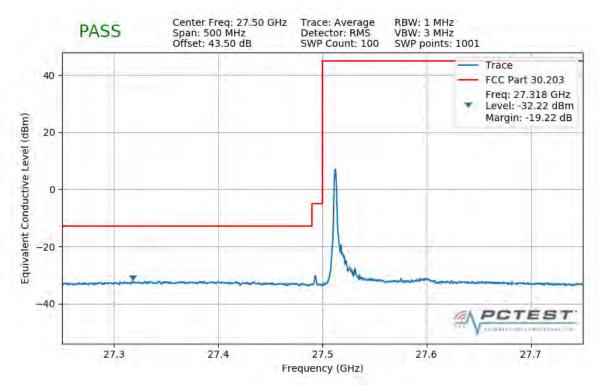
Plot 7-413. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



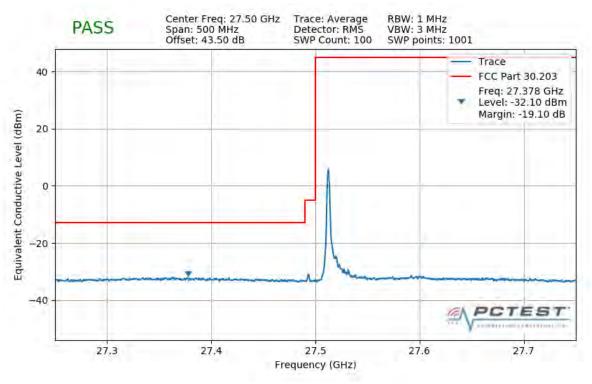
Plot 7-414. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

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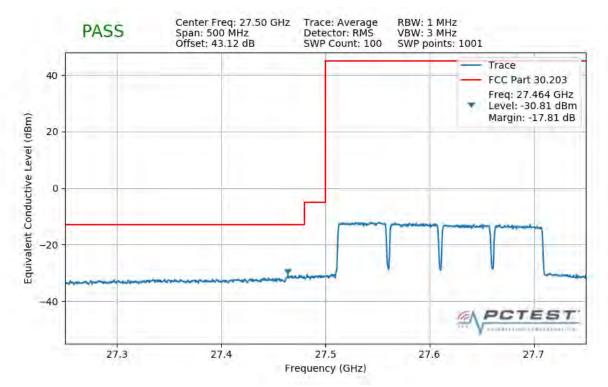
Plot 7-415. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



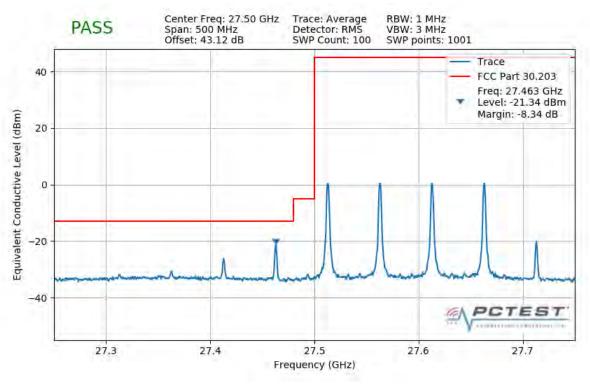
Plot 7-416. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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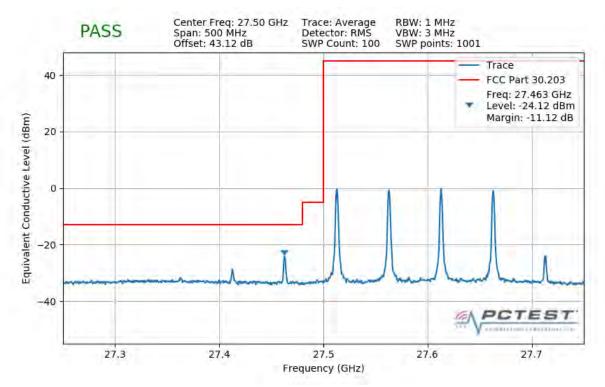
Plot 7-417. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



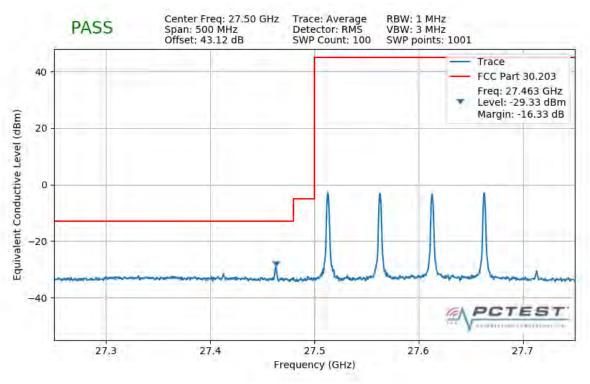
Plot 7-418. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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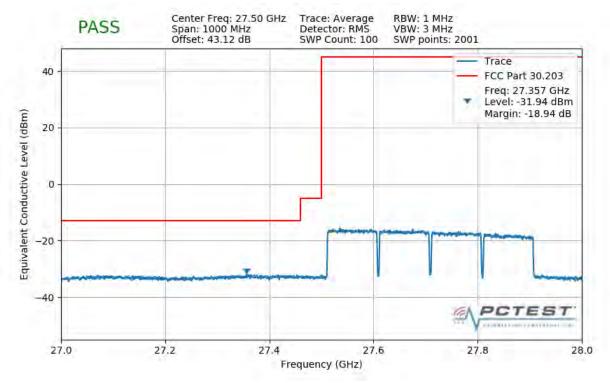
Plot 7-419. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



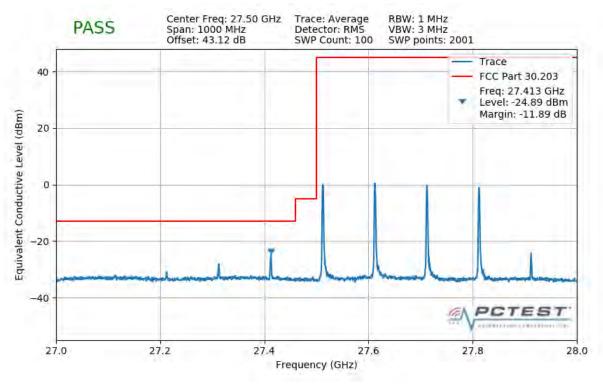
Plot 7-420. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

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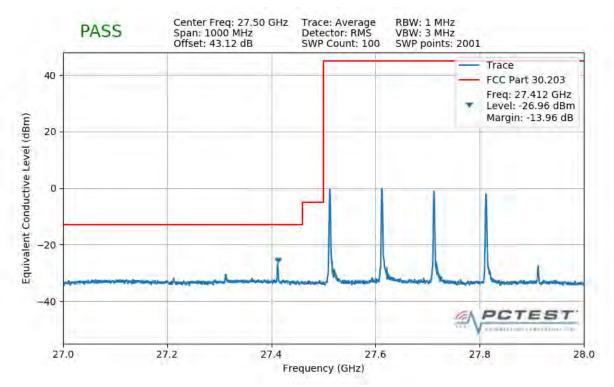
Plot 7-421. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



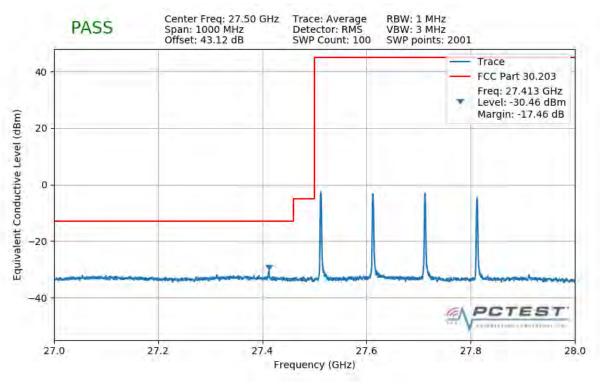
Plot 7-422. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

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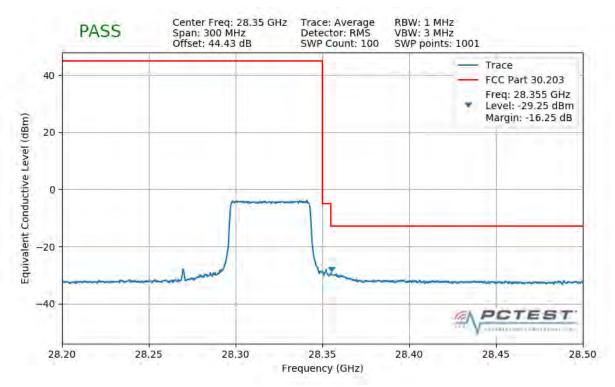
Plot 7-423. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



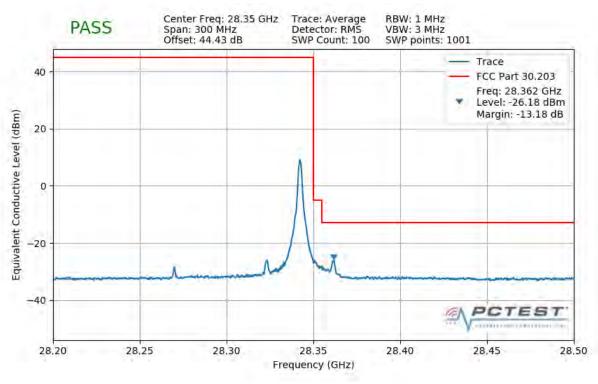
Plot 7-424. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE LANDES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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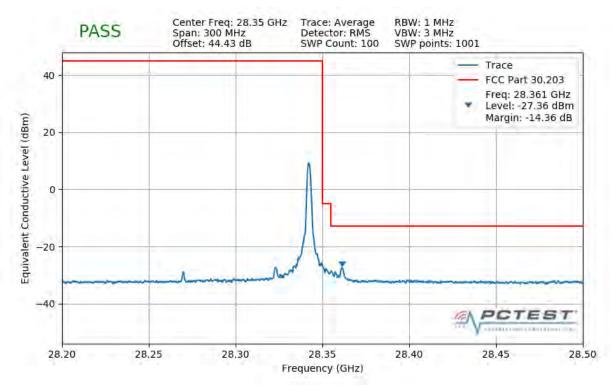
Plot 7-425. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



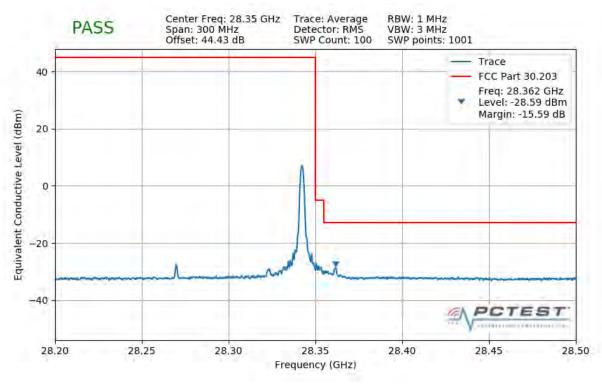
Plot 7-426. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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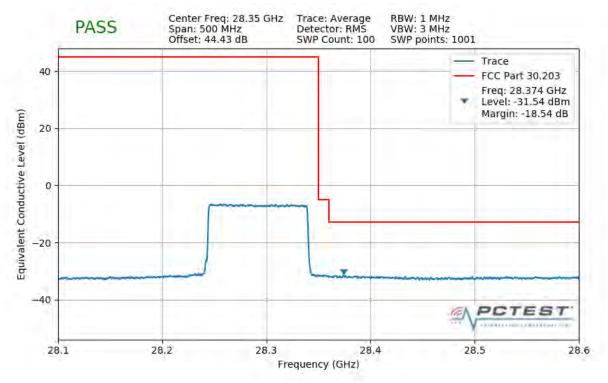
Plot 7-427. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



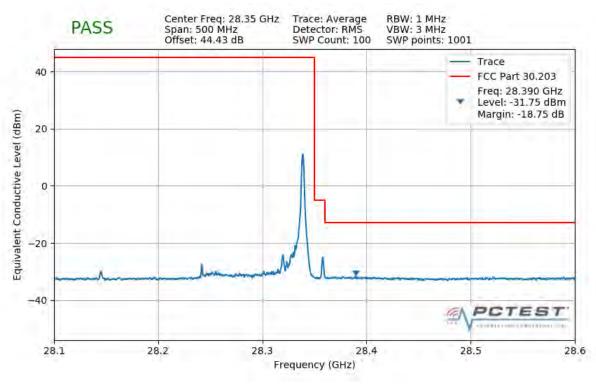
Plot 7-428. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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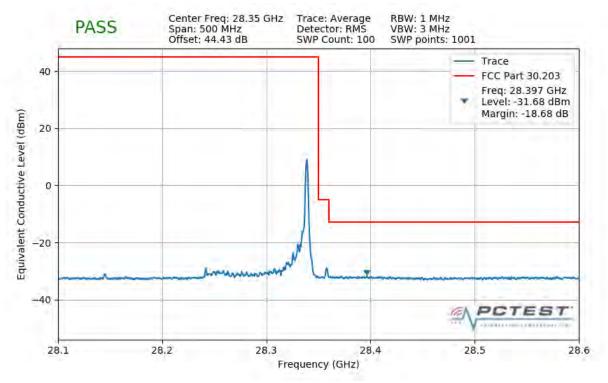
Plot 7-429. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



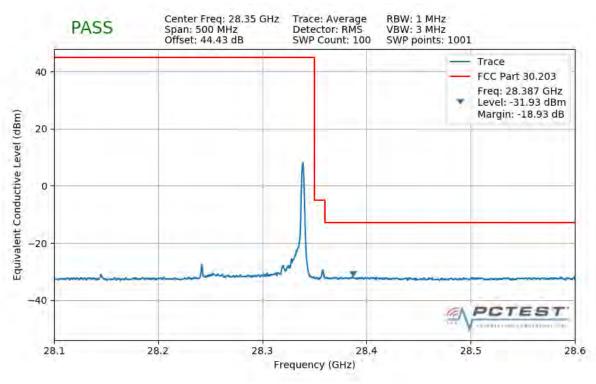
Plot 7-430. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

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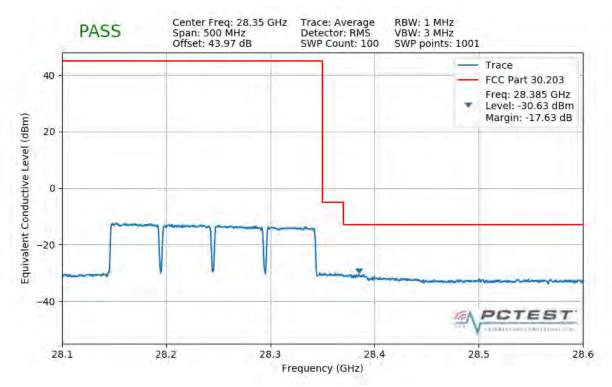
Plot 7-431. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



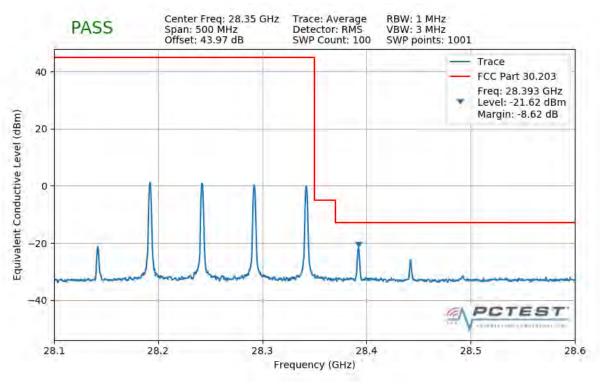
Plot 7-432. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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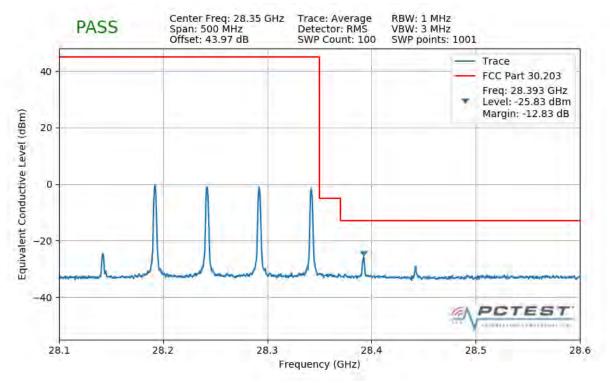
Plot 7-433. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



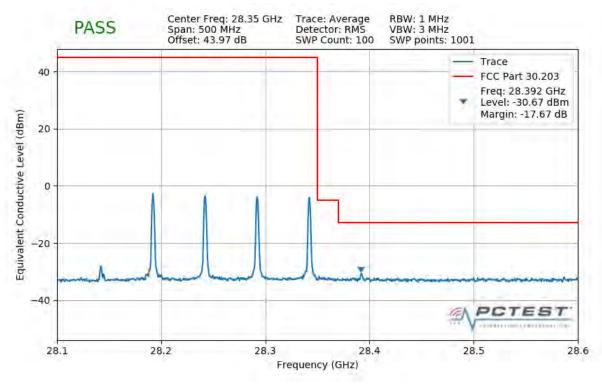
Plot 7-434. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

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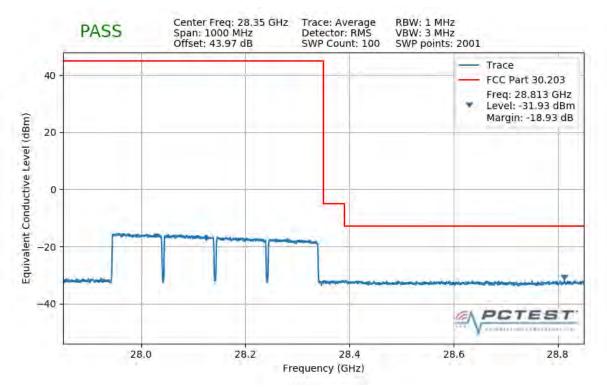
Plot 7-435. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



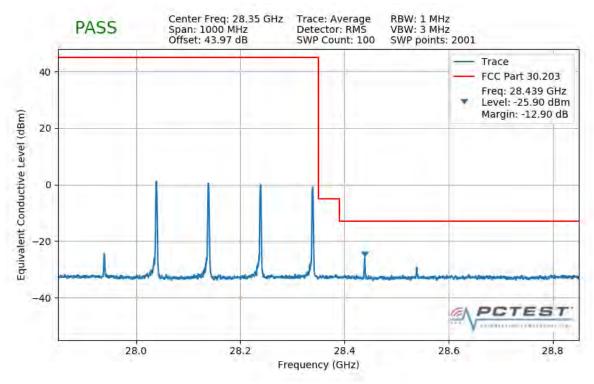
Plot 7-436. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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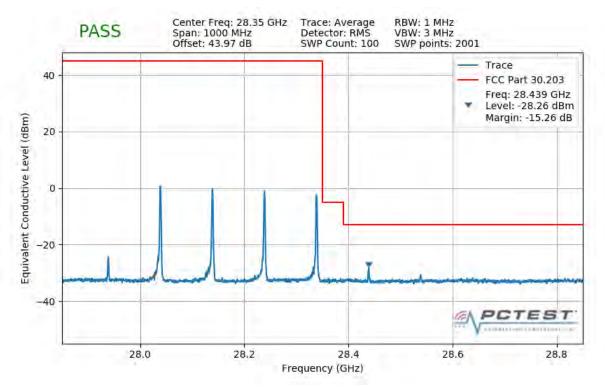
Plot 7-437. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



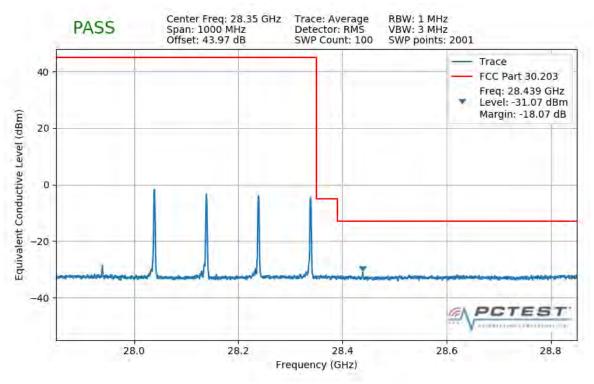
Plot 7-438. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-439. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

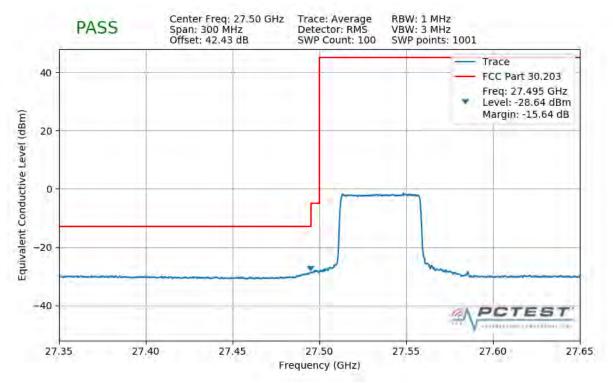


Plot 7-440. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

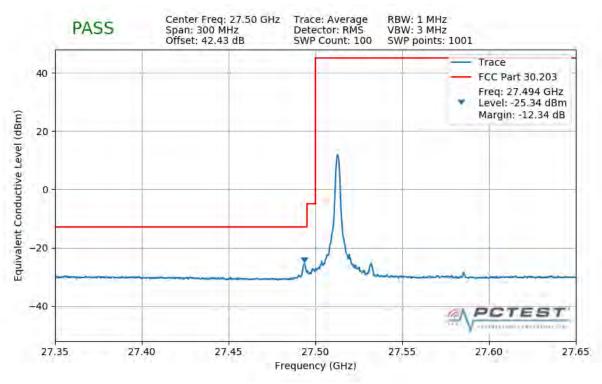
FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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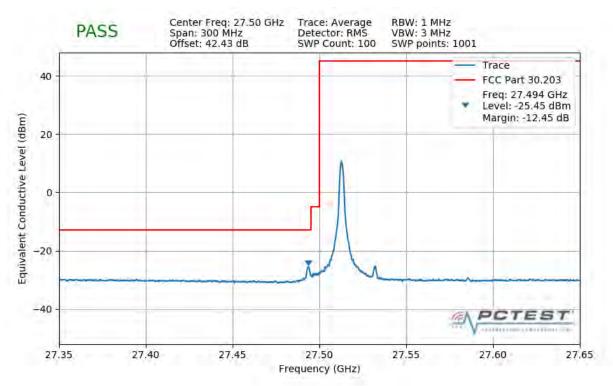
Plot 7-441. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



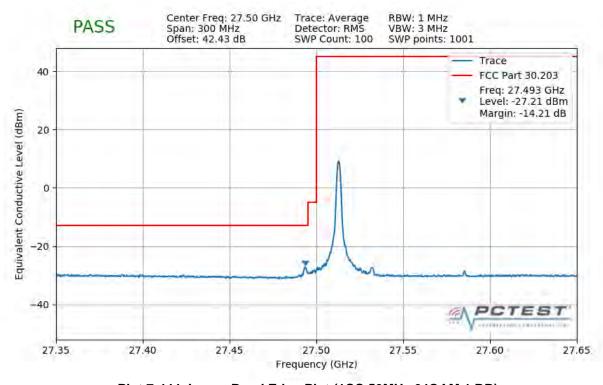
Plot 7-442. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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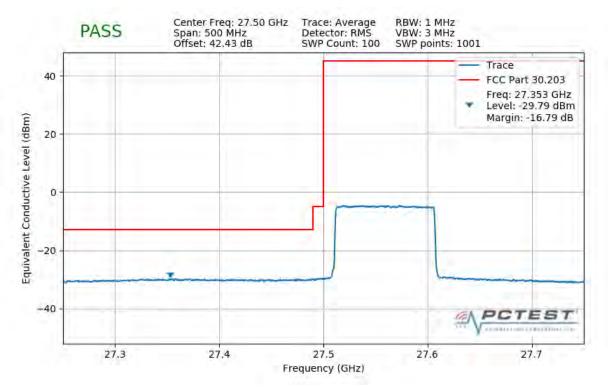
Plot 7-443. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



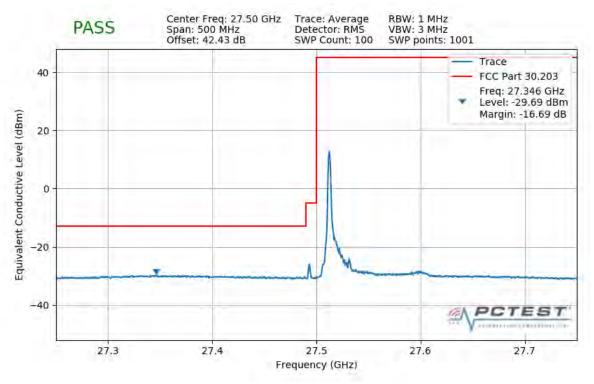
Plot 7-444. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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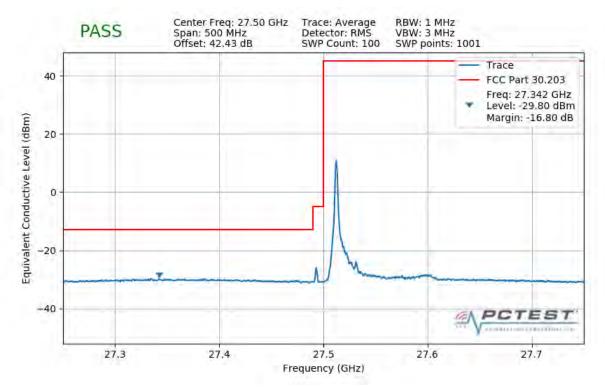
Plot 7-445. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



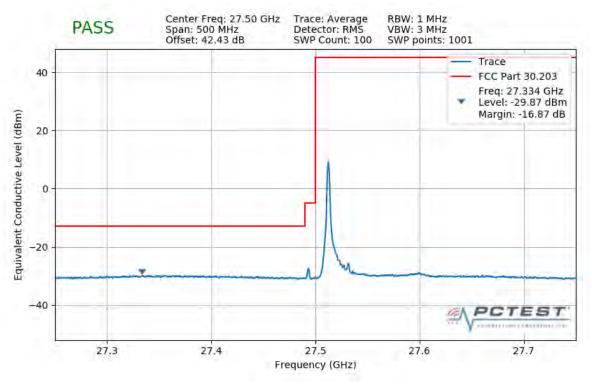
Plot 7-446. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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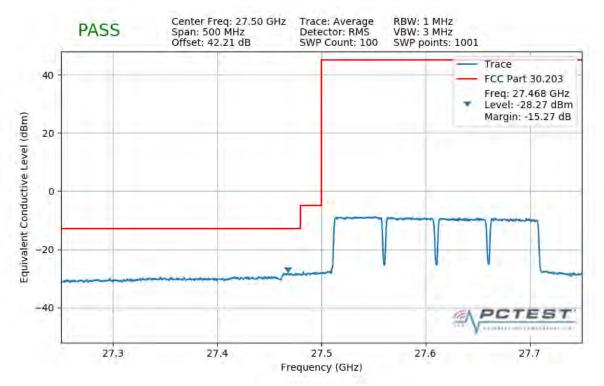
Plot 7-447. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



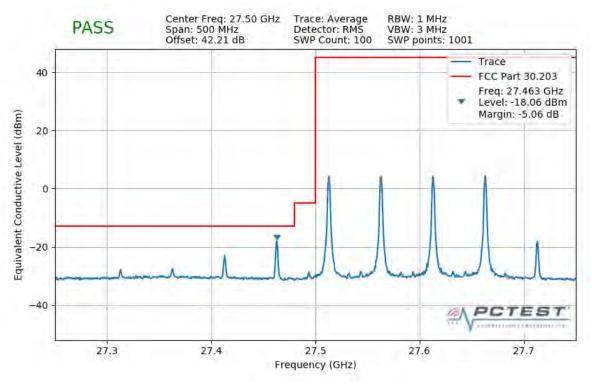
Plot 7-448. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

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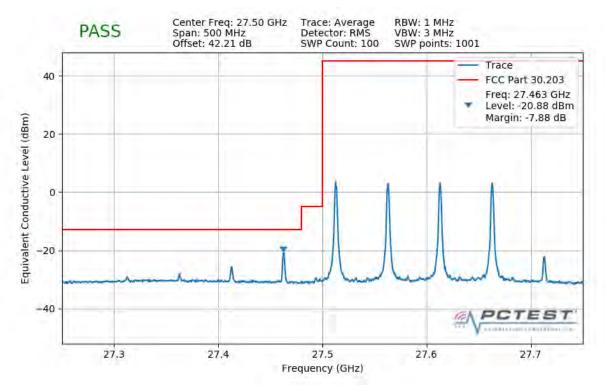
Plot 7-449. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



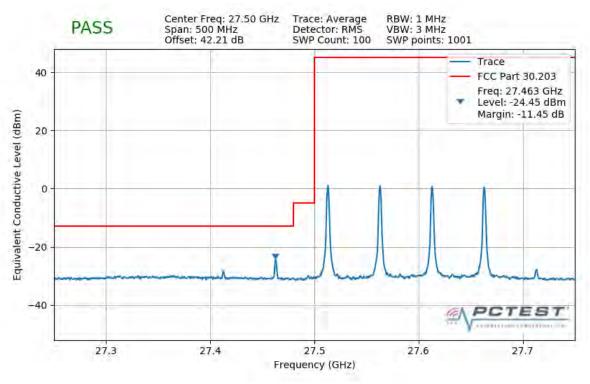
Plot 7-450. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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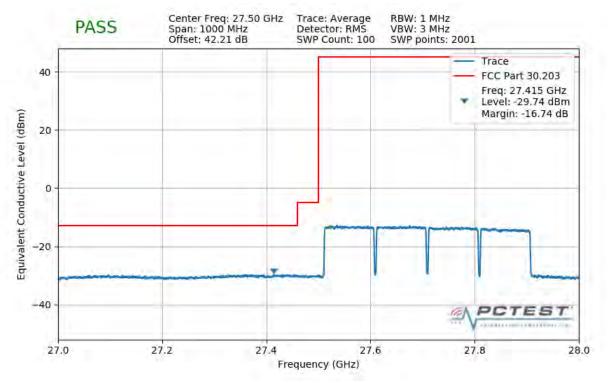
Plot 7-451. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



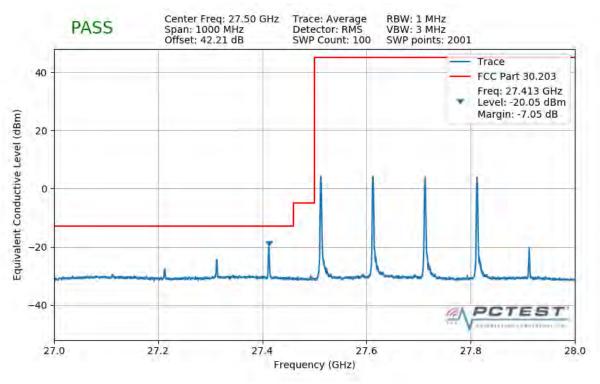
Plot 7-452. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST TROPULATION OF THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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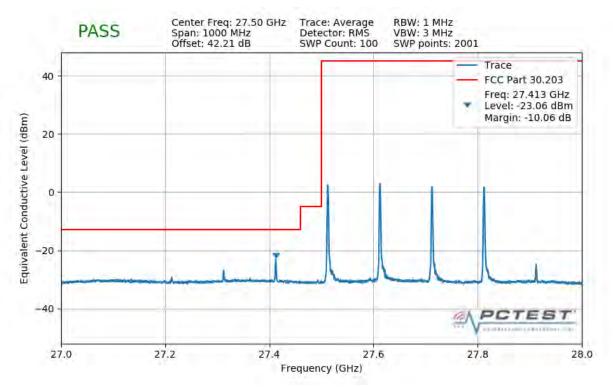
Plot 7-453. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



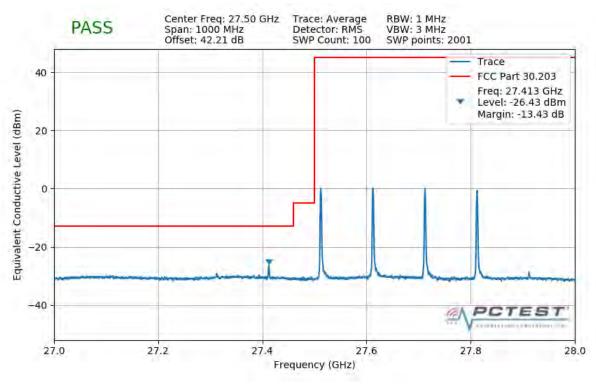
Plot 7-454. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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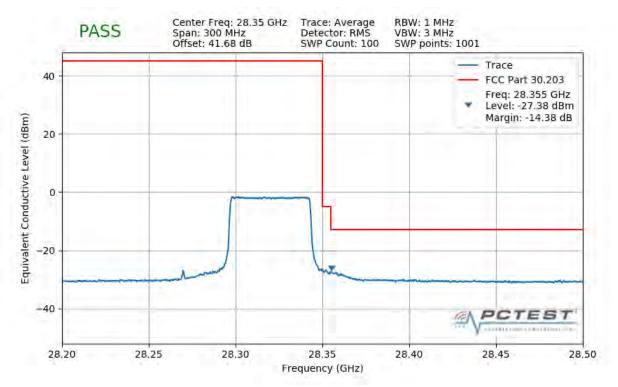
Plot 7-455. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



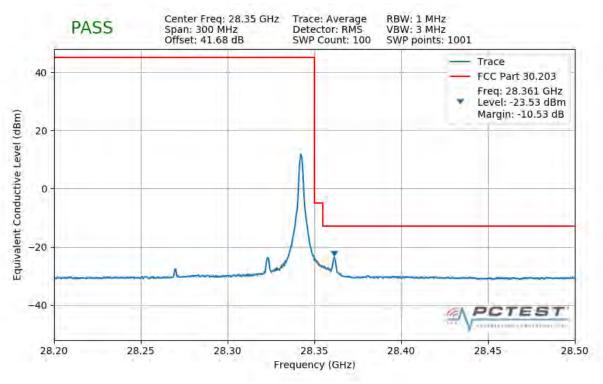
Plot 7-456. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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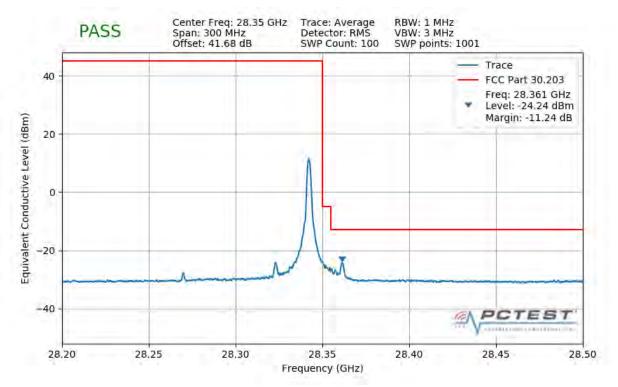
Plot 7-457. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



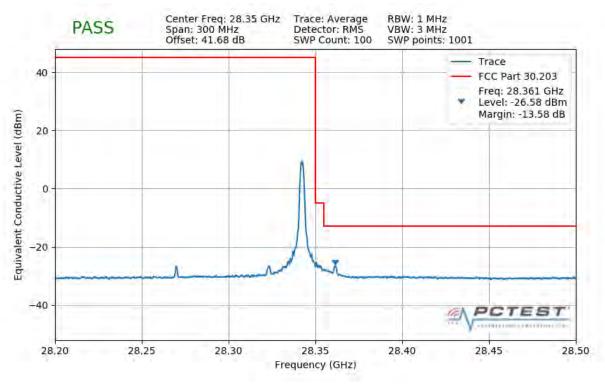
Plot 7-458. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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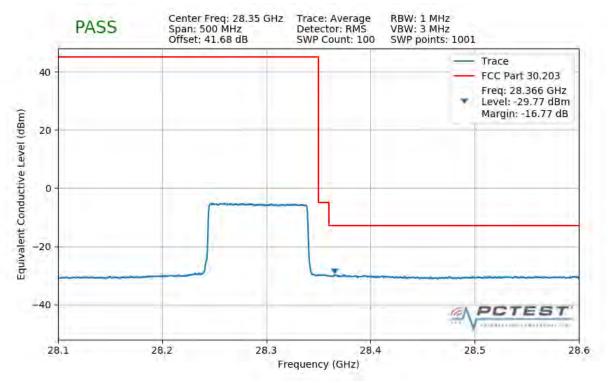
Plot 7-459. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



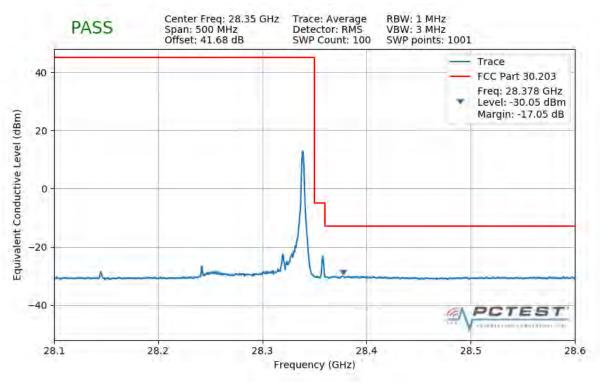
Plot 7-460. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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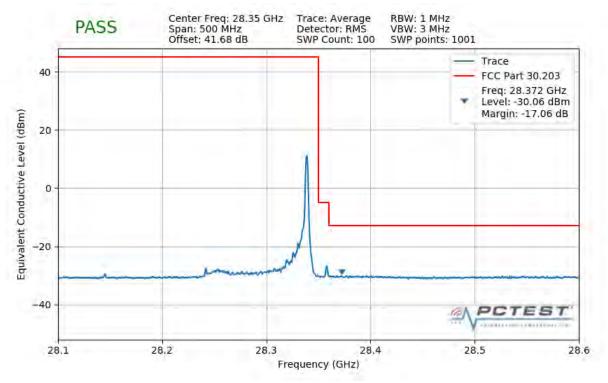
Plot 7-461. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



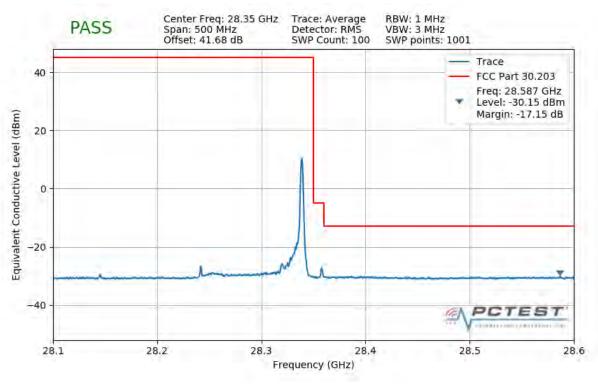
Plot 7-462. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST TROPULATION OF THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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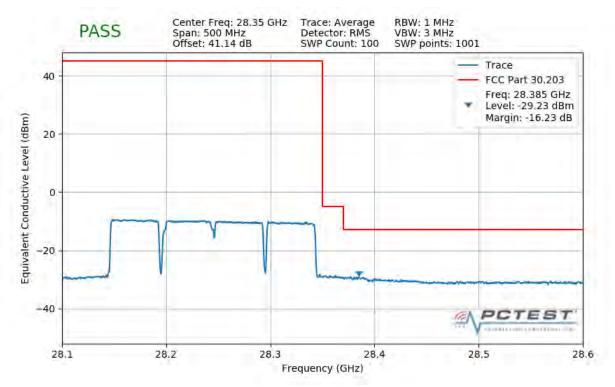
Plot 7-463. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



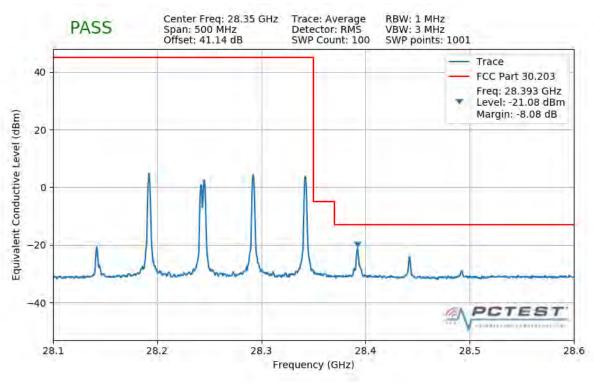
Plot 7-464. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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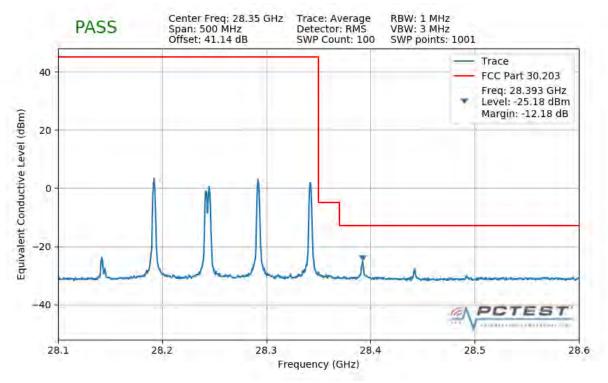
Plot 7-465. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



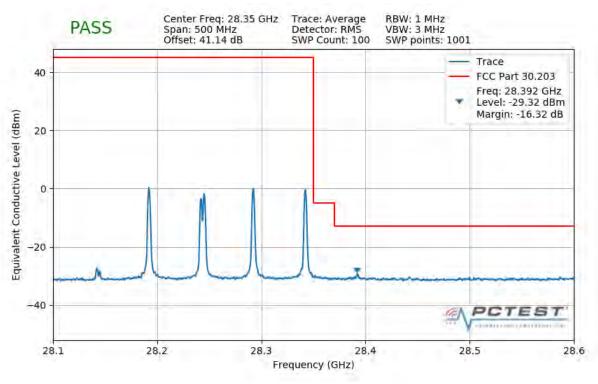
Plot 7-466. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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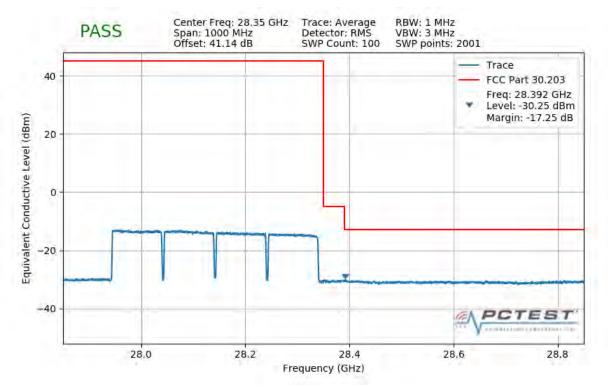
Plot 7-467. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



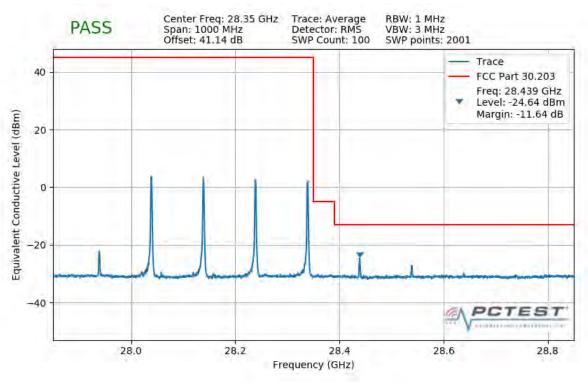
Plot 7-468. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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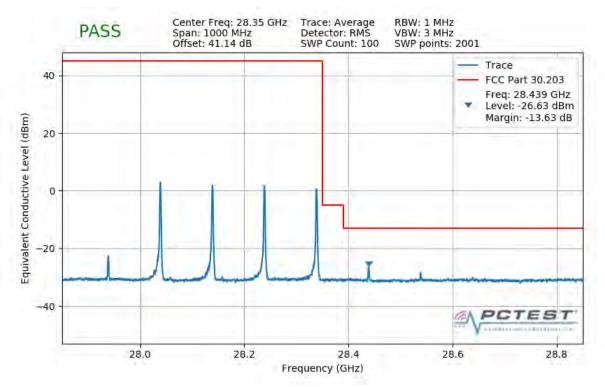
Plot 7-469. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



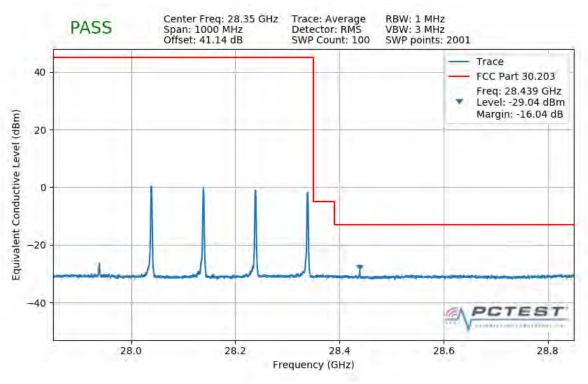
Plot 7-470. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST TROPULATION OF THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-471. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

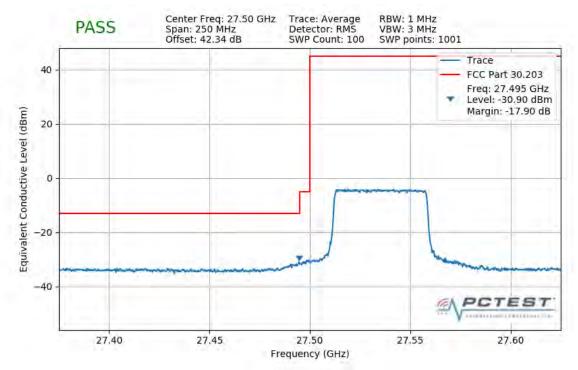


Plot 7-472. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

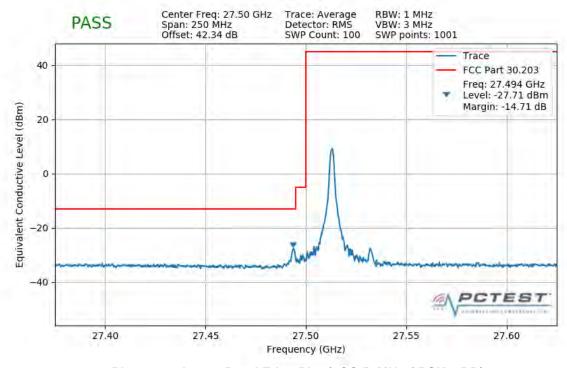
FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 7.5.5 L Patch Band Edge H Beam



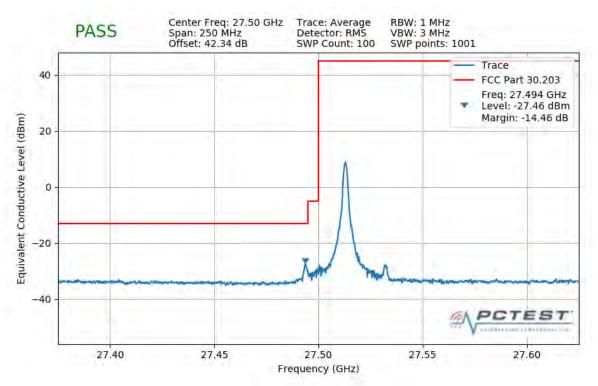
Plot 7-473. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



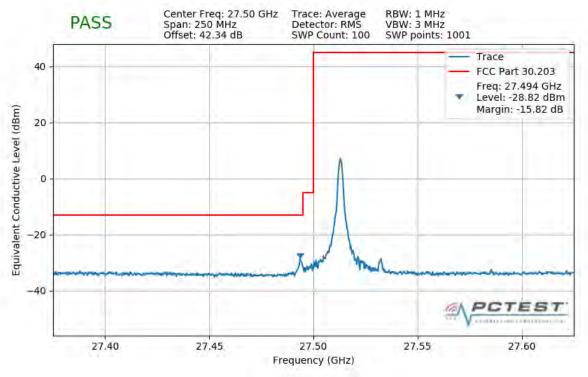
Plot 7-474. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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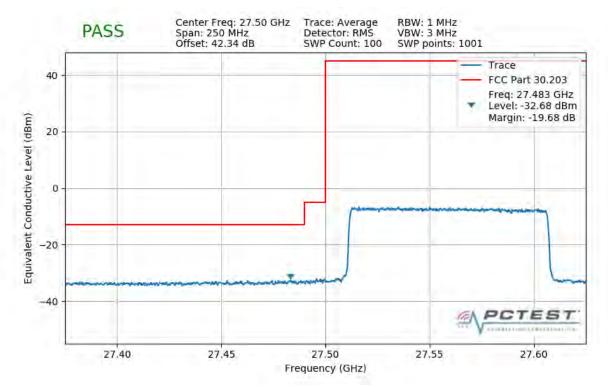
Plot 7-475. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



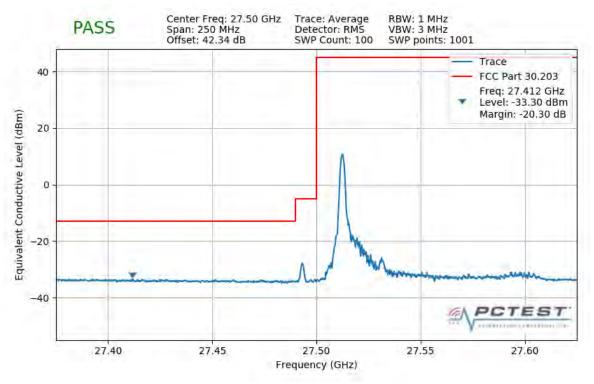
Plot 7-476. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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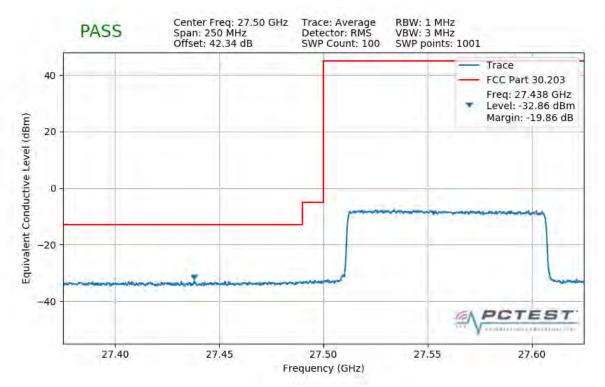
Plot 7-477. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



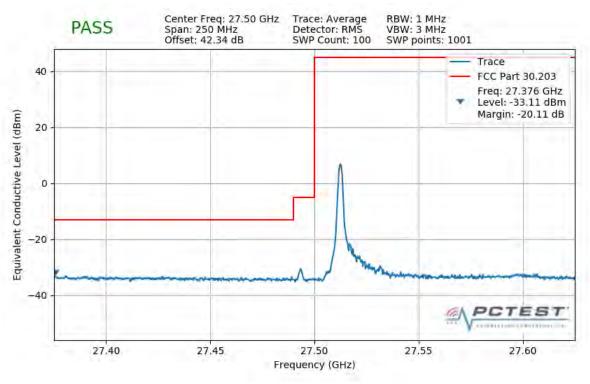
Plot 7-478. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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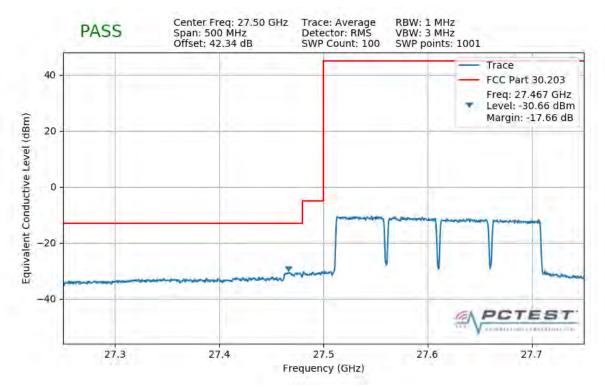
Plot 7-479. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



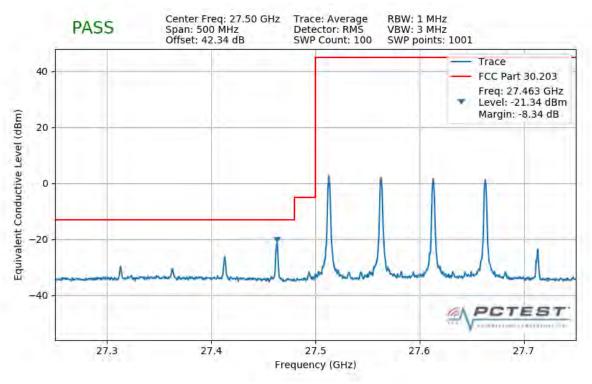
Plot 7-480. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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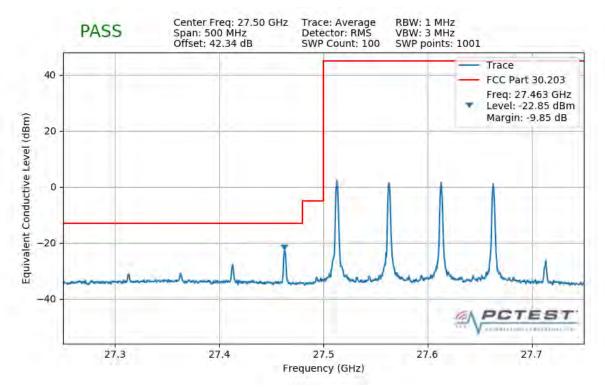
Plot 7-481. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



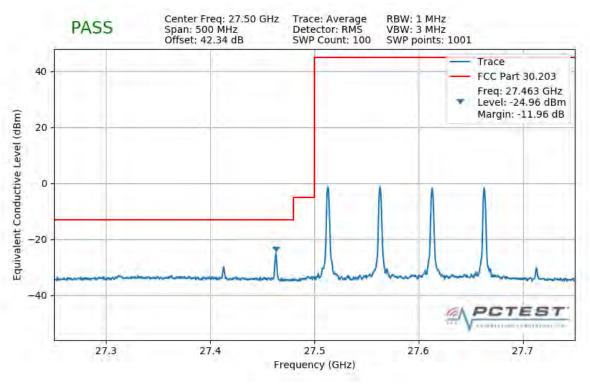
Plot 7-482. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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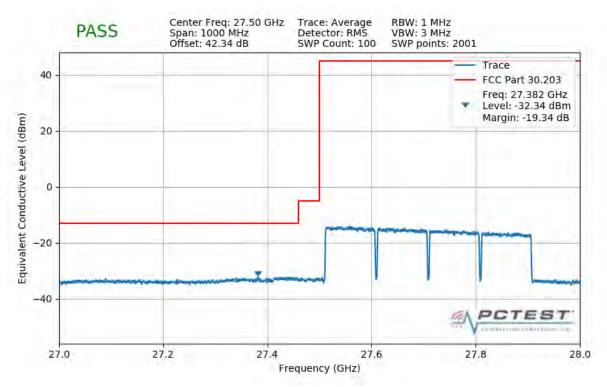
Plot 7-483. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



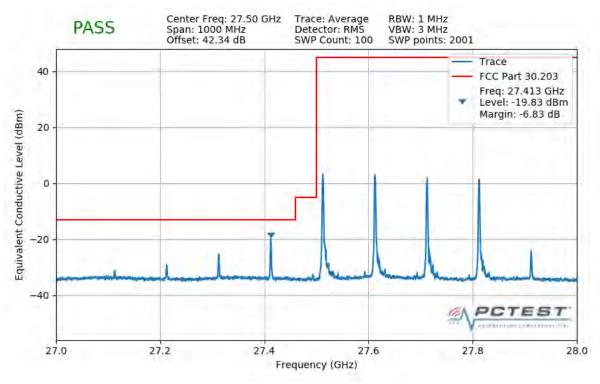
Plot 7-484. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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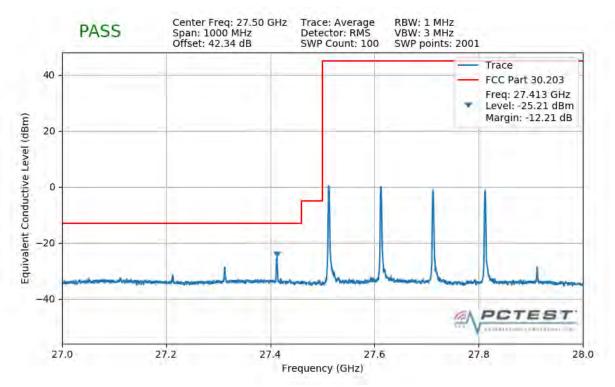
Plot 7-485. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



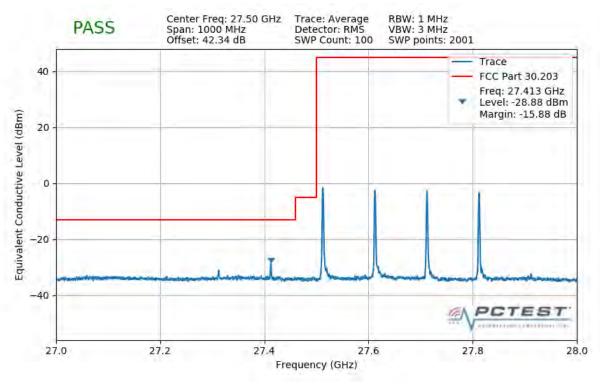
Plot 7-486. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANNIC DADIES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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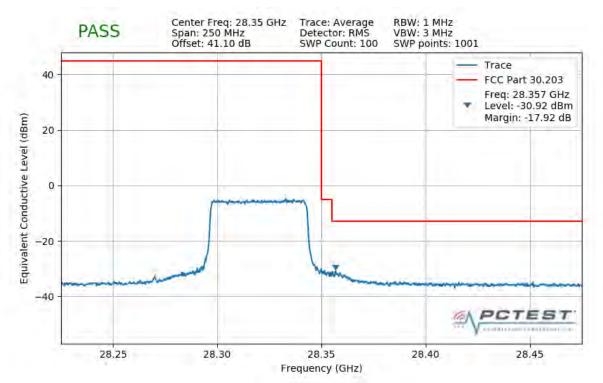
Plot 7-487. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



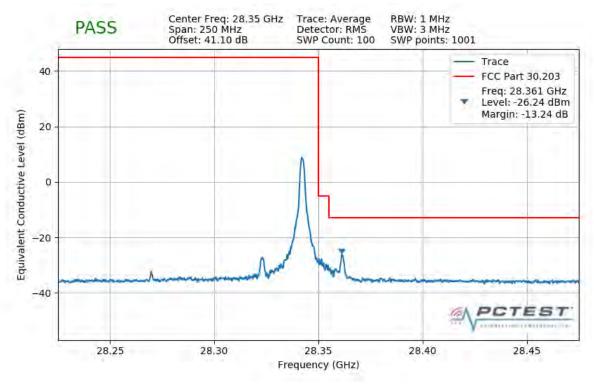
Plot 7-488. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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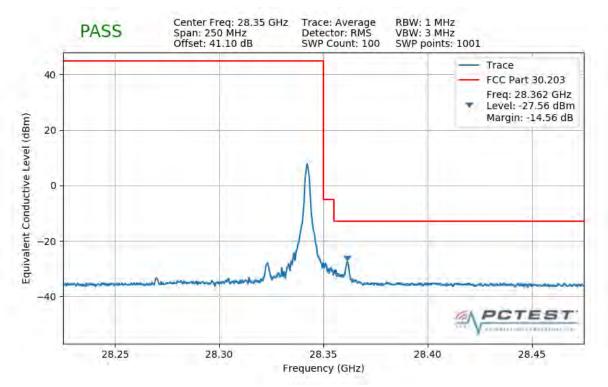
Plot 7-489. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



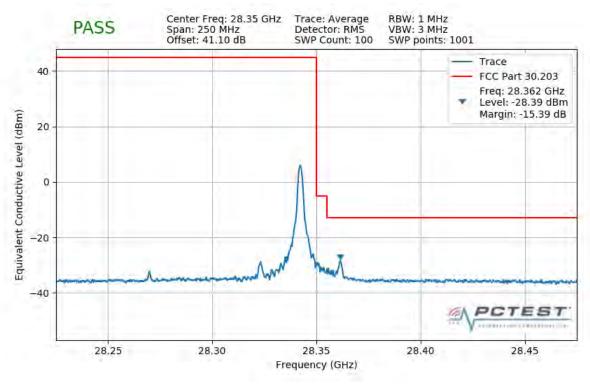
Plot 7-490. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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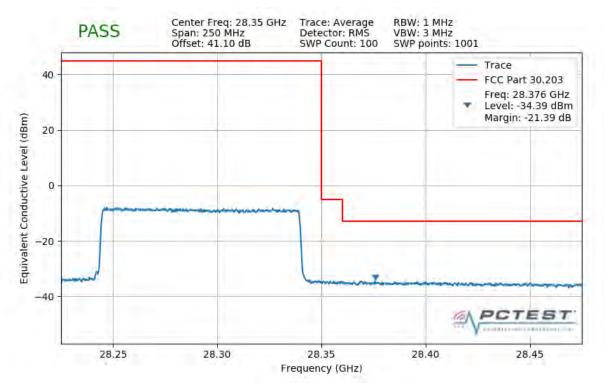
Plot 7-491. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



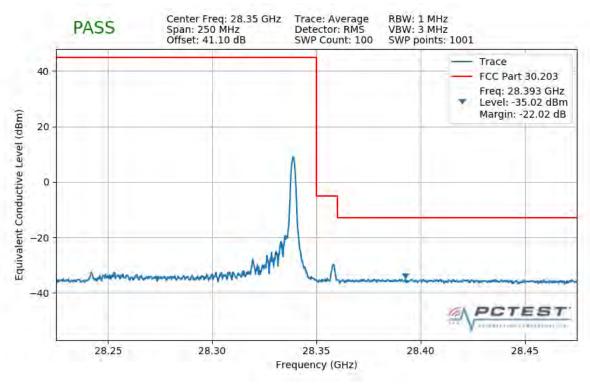
Plot 7-492. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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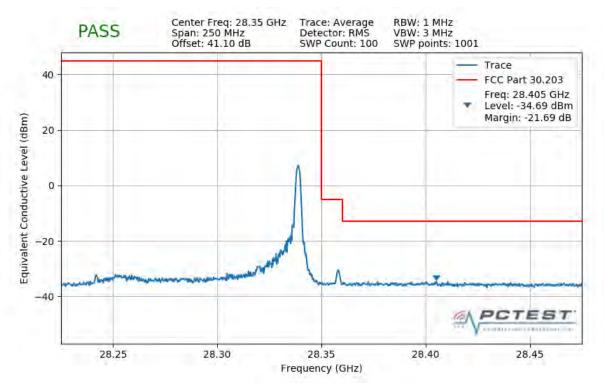
Plot 7-493. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



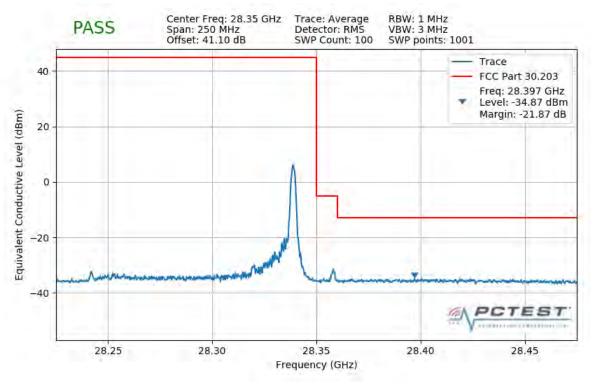
Plot 7-494. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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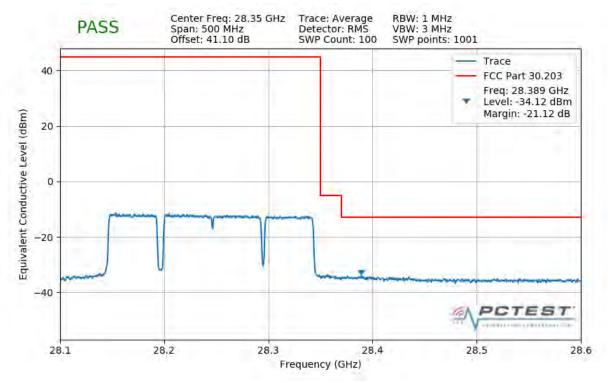
Plot 7-495. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



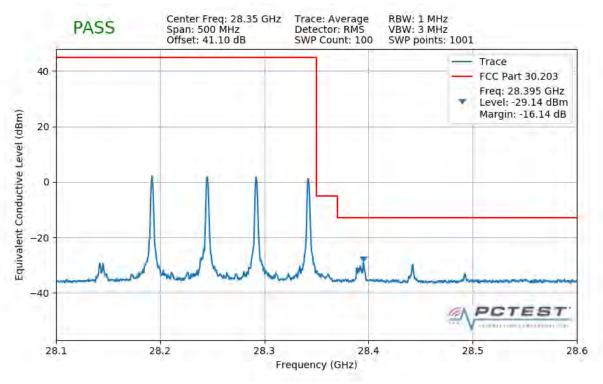
Plot 7-496. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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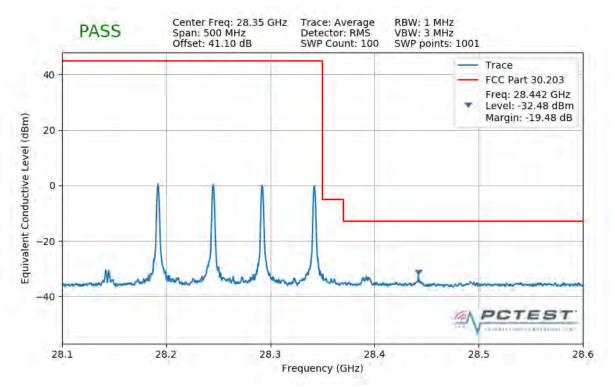
Plot 7-497. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



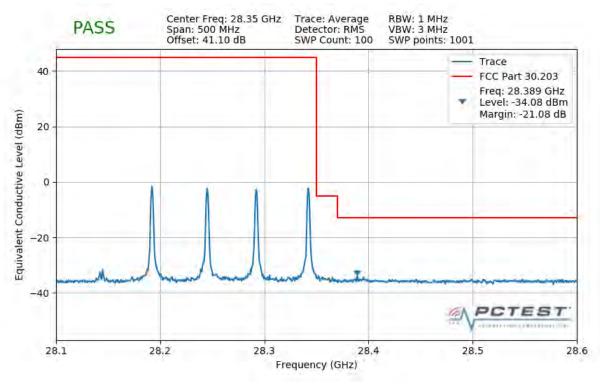
Plot 7-498. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

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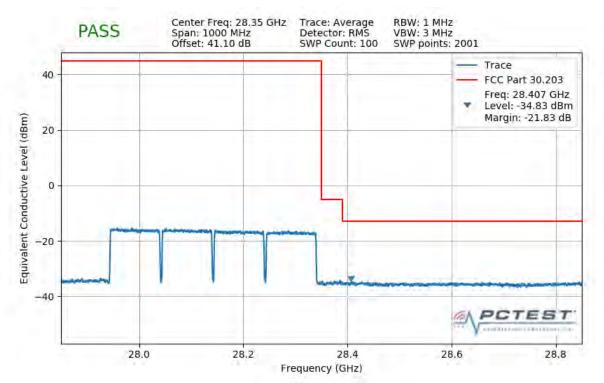
Plot 7-499. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



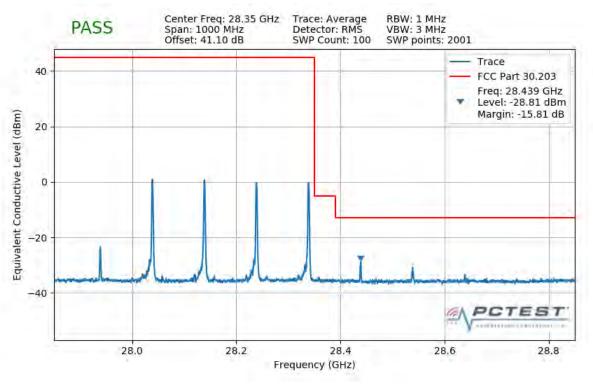
Plot 7-500. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

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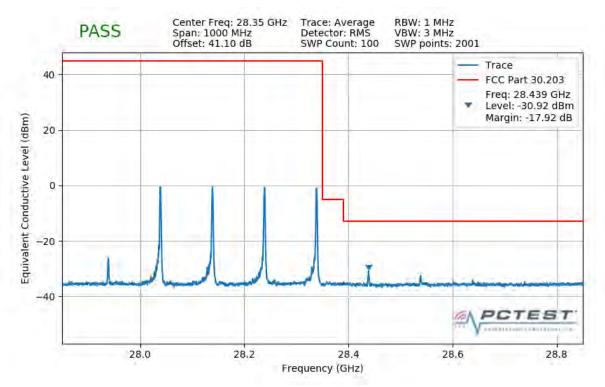
Plot 7-501. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



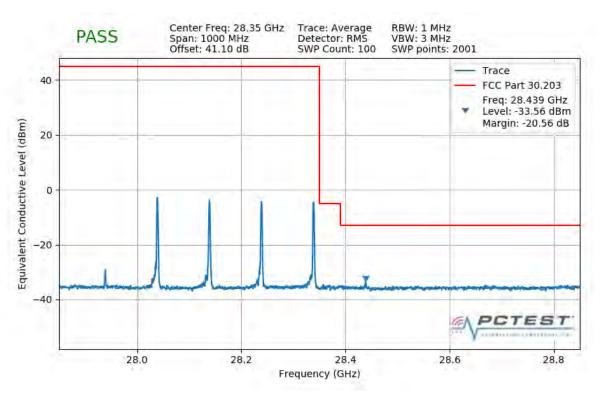
Plot 7-502. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

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Plot 7-503. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

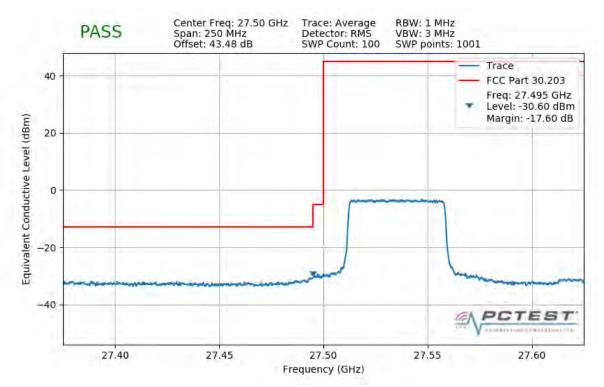


Plot 7-504. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

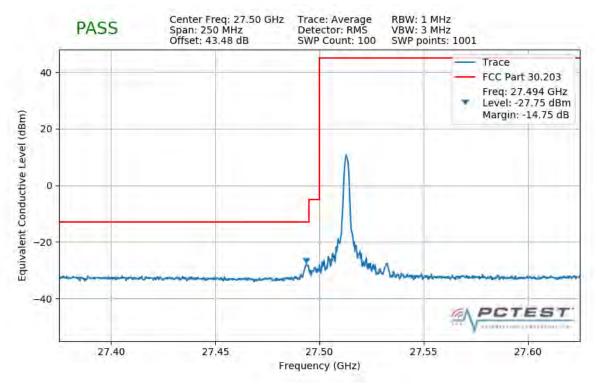
FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## V Beam



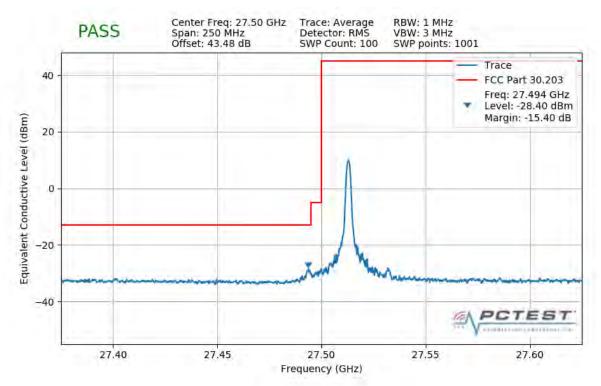
Plot 7-505. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



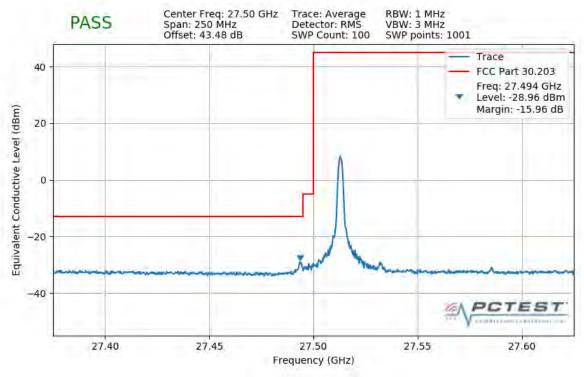
Plot 7-506. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST TECHNICIPALITY OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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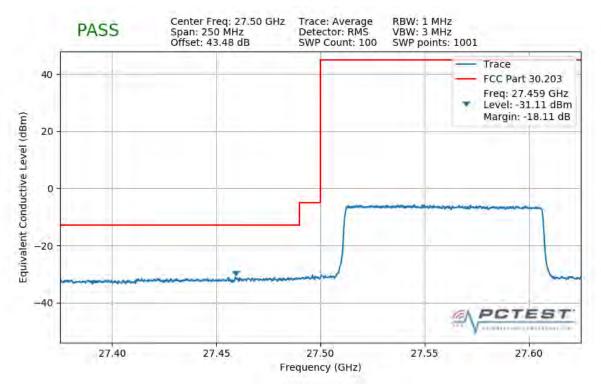
Plot 7-507. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



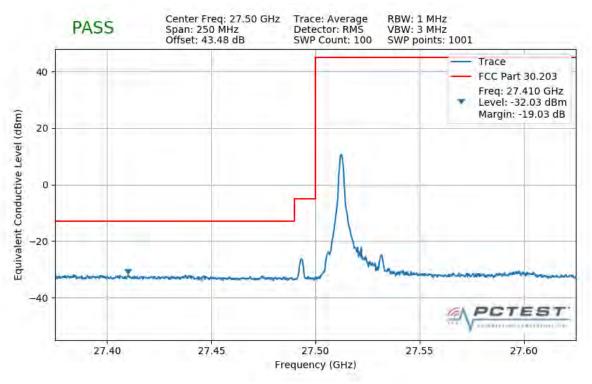
Plot 7-508. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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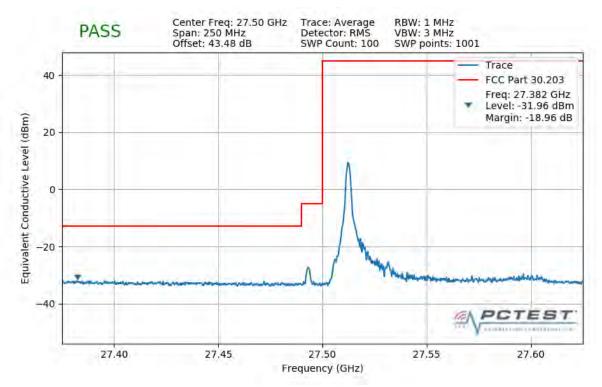
Plot 7-509. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



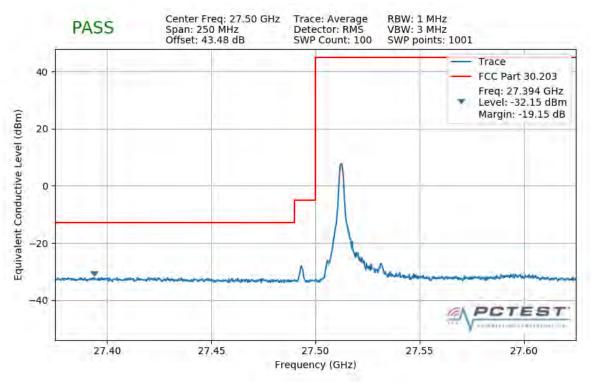
Plot 7-510. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

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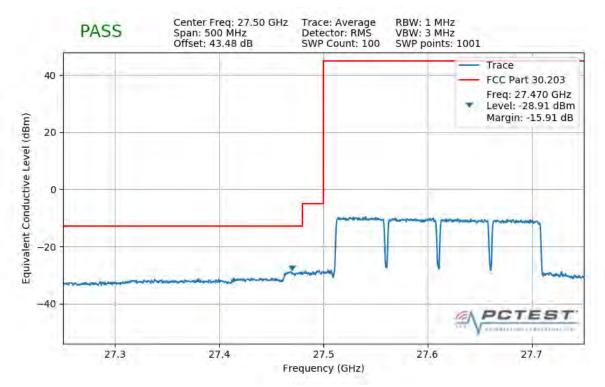
Plot 7-511. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



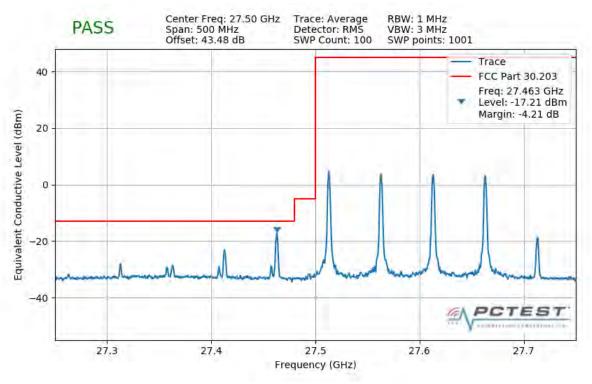
Plot 7-512. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

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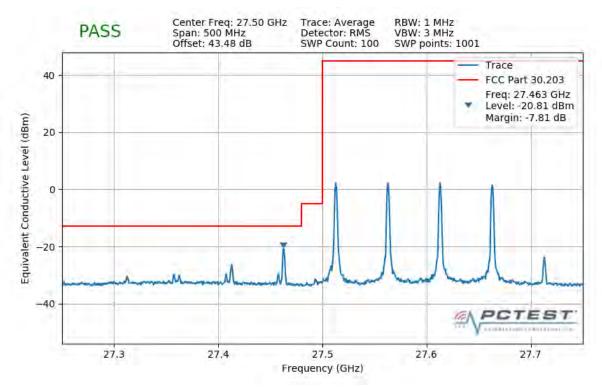
Plot 7-513. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



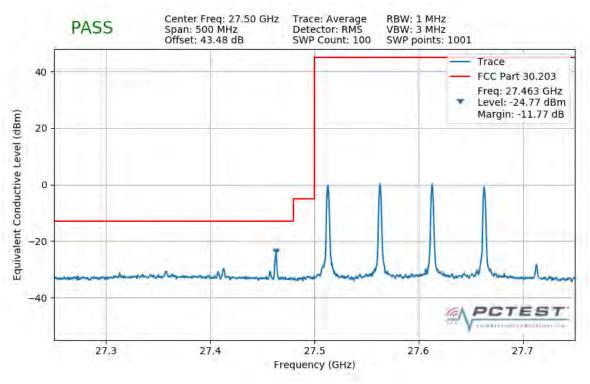
Plot 7-514. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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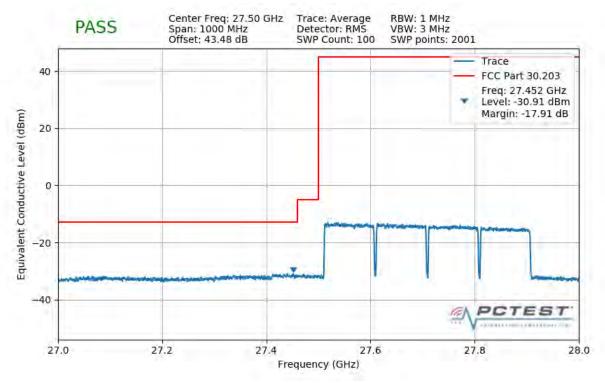
Plot 7-515. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



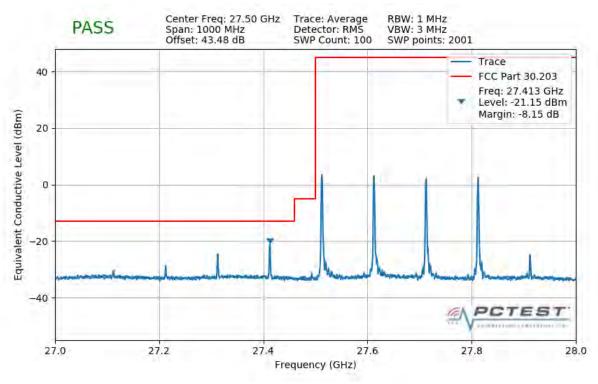
Plot 7-516. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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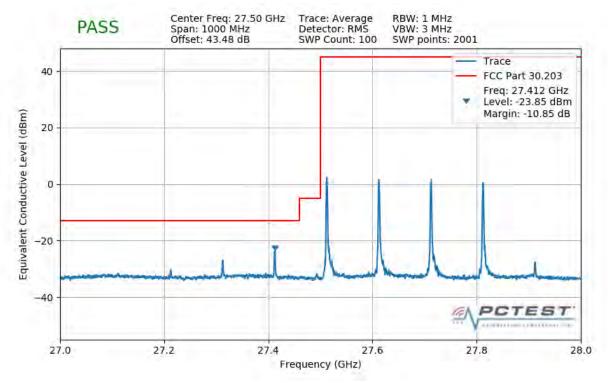
Plot 7-517. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



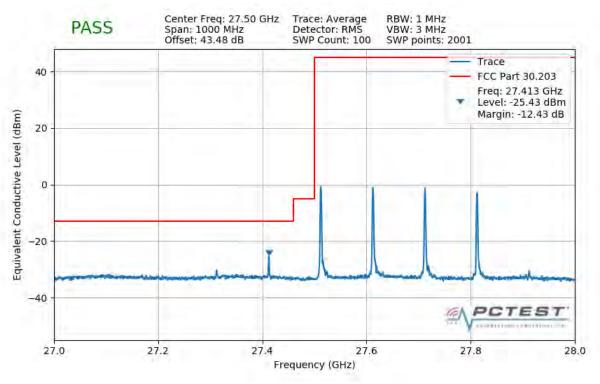
Plot 7-518. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

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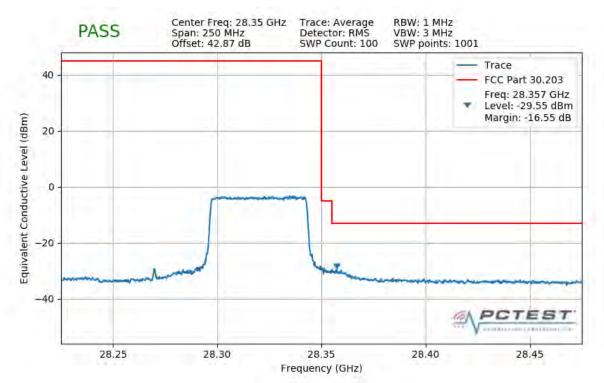
Plot 7-519. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



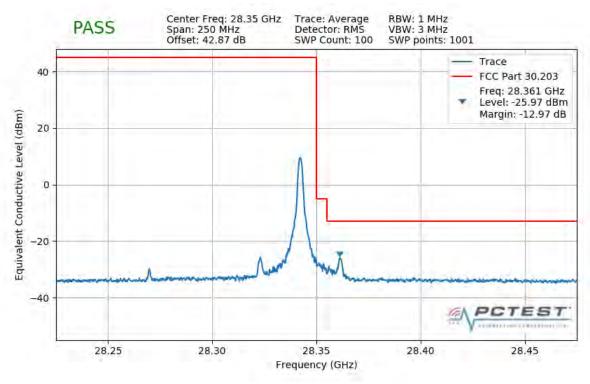
Plot 7-520. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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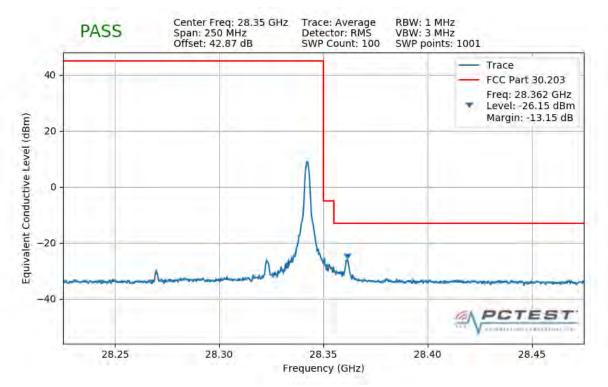
Plot 7-521. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



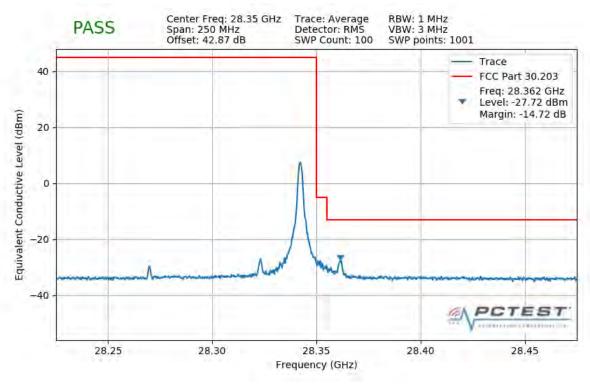
Plot 7-522. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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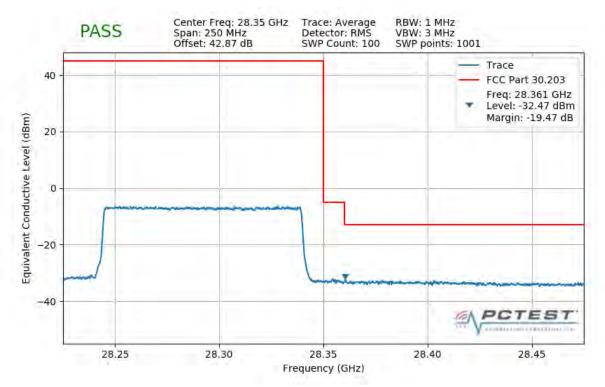
Plot 7-523. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



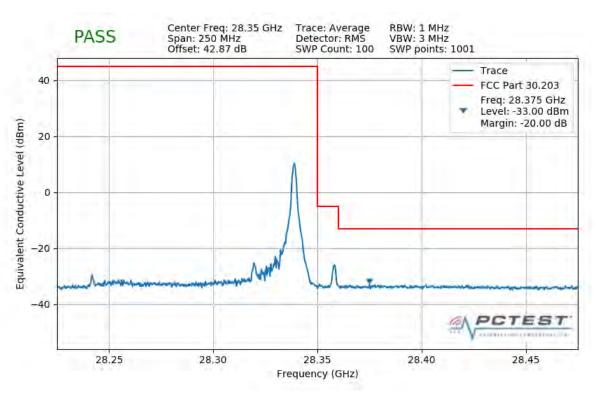
Plot 7-524. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST TROPULATION OF THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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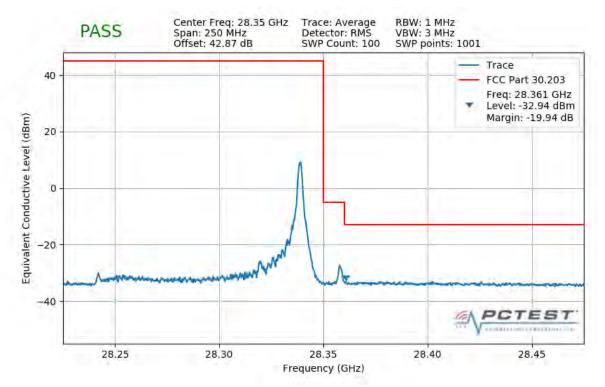
Plot 7-525. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



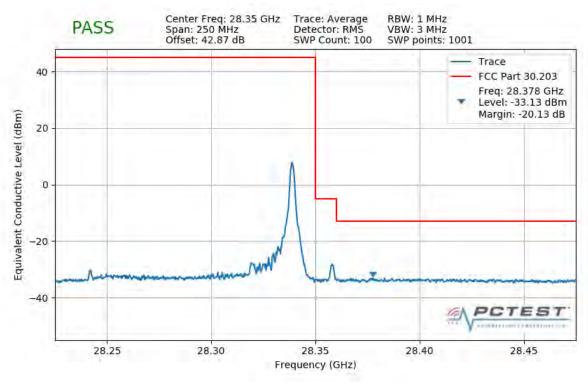
Plot 7-526. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

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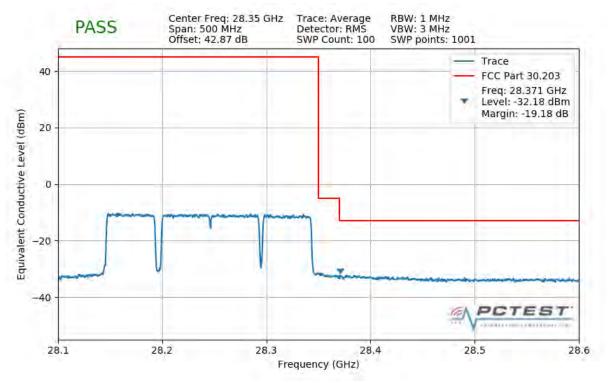
Plot 7-527. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



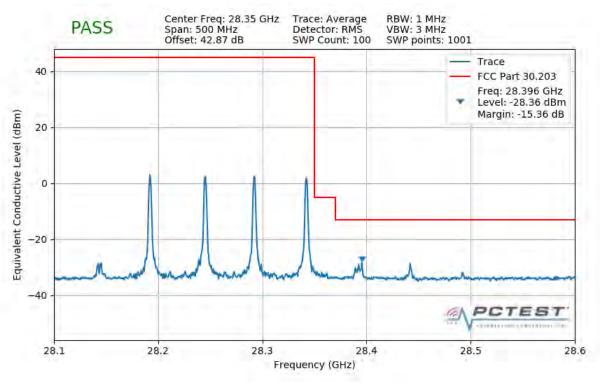
Plot 7-528. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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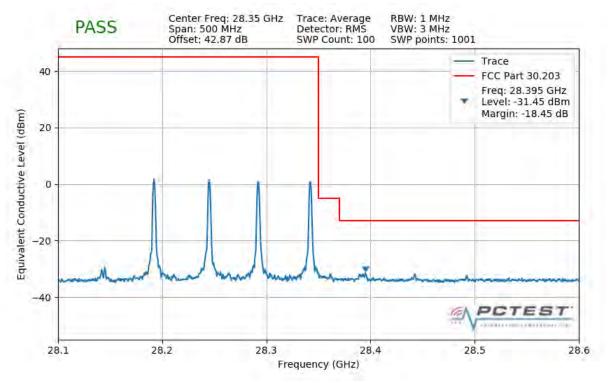
Plot 7-529. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



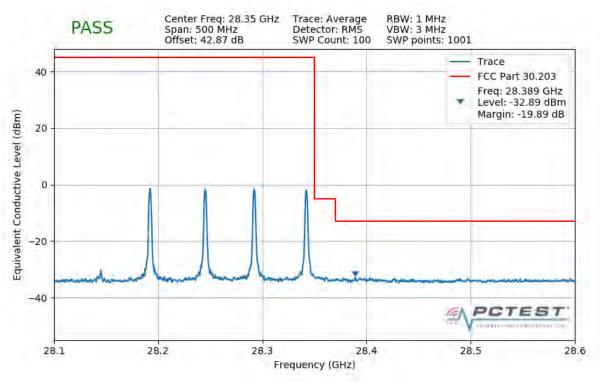
Plot 7-530. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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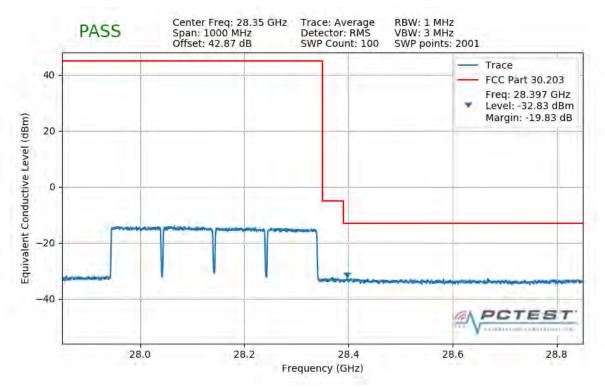
Plot 7-531. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



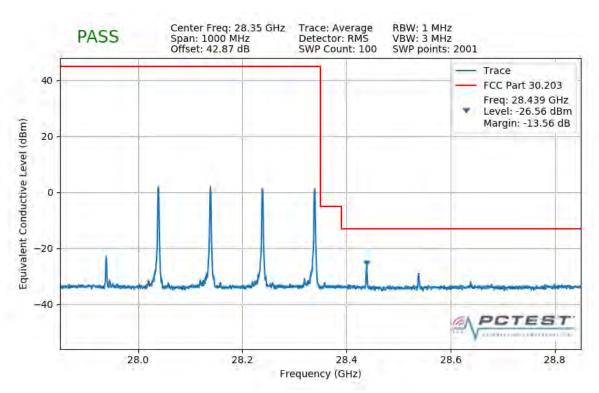
Plot 7-532. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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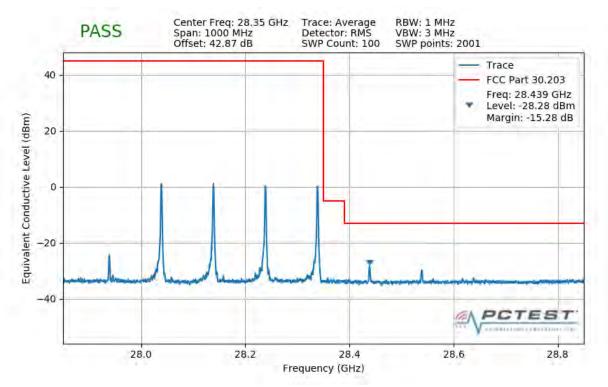
Plot 7-533. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



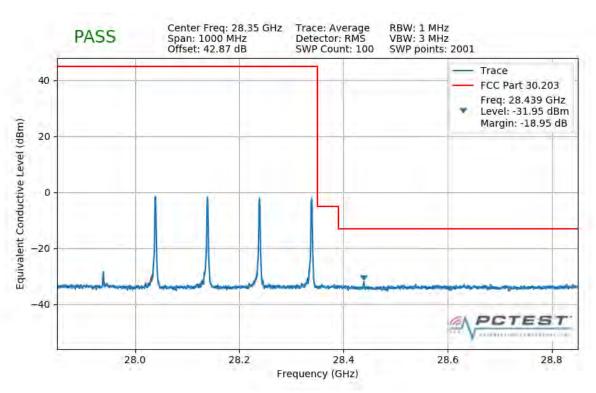
Plot 7-534. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-535. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

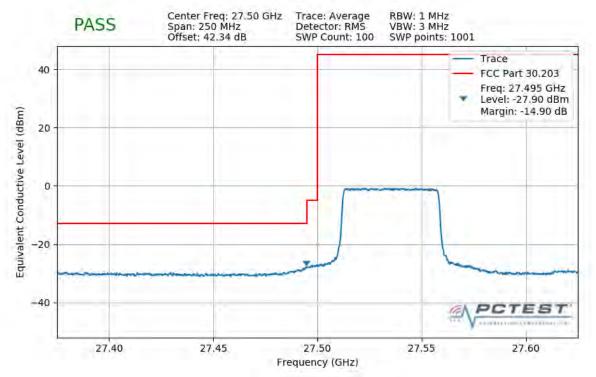


Plot 7-536. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

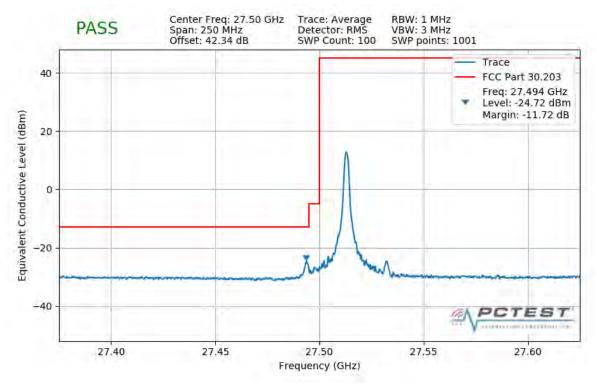
FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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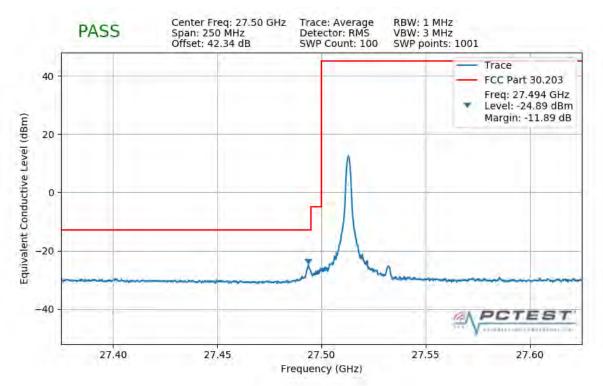
Plot 7-537. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



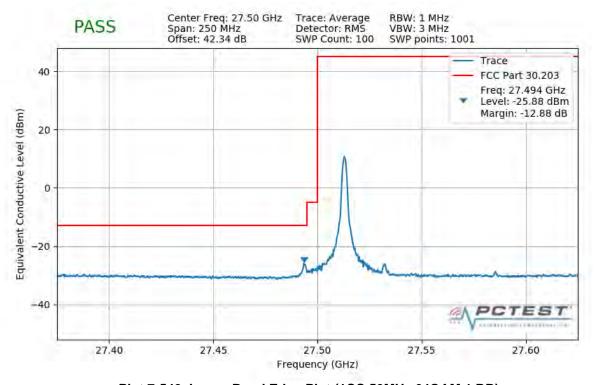
Plot 7-538. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977T	PETEST TECHNICIPALITY OF	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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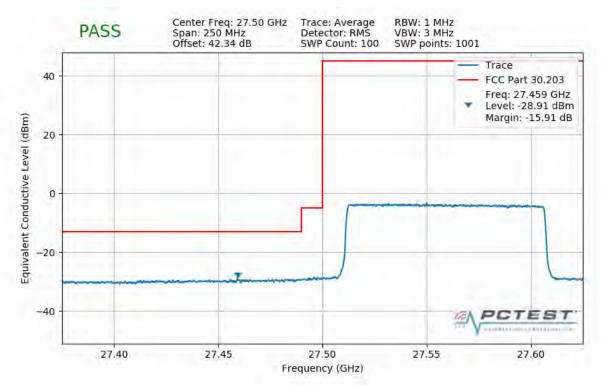
Plot 7-539. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



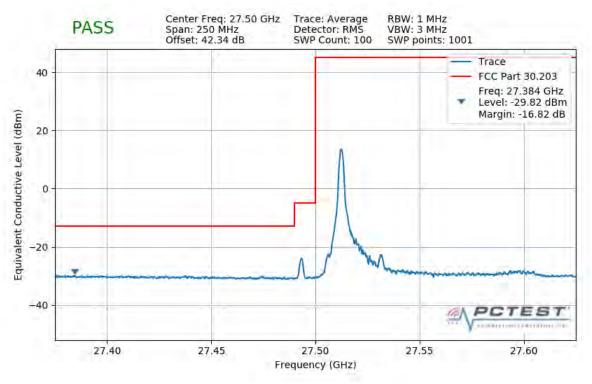
Plot 7-540. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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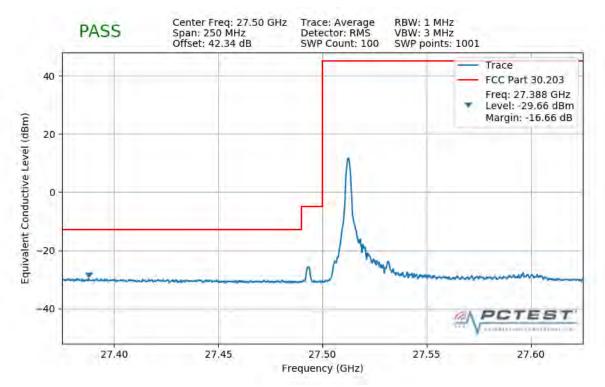
Plot 7-541. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



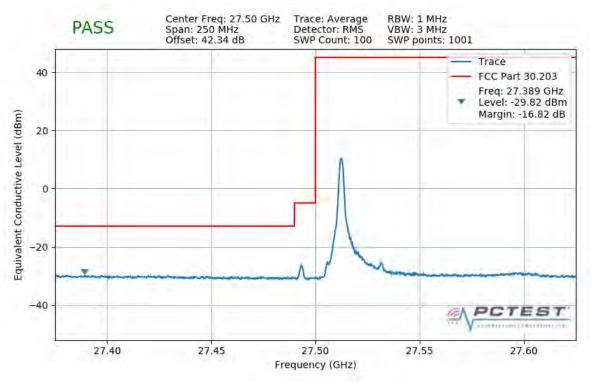
Plot 7-542. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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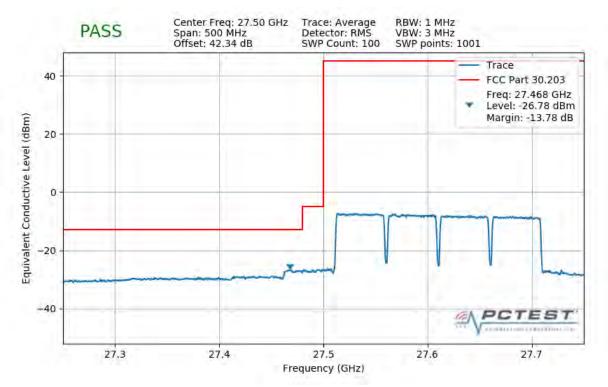
Plot 7-543. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



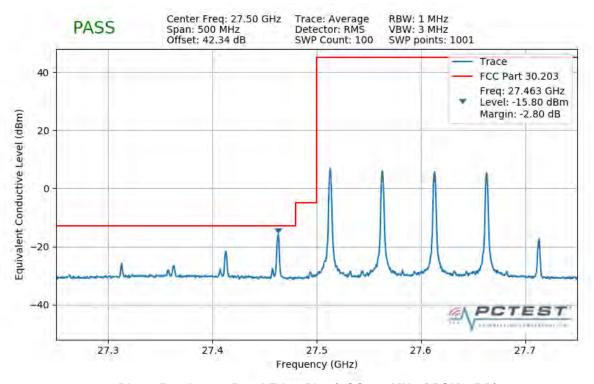
Plot 7-544. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	PETEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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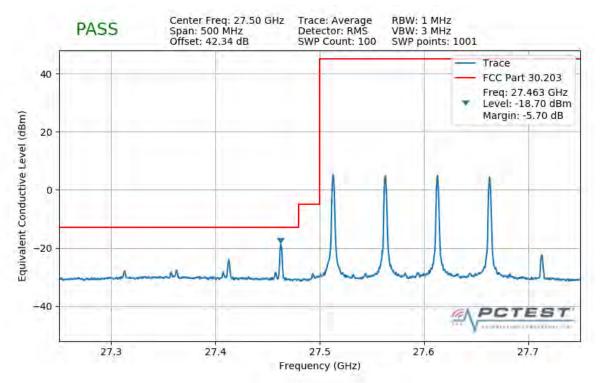
Plot 7-545. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



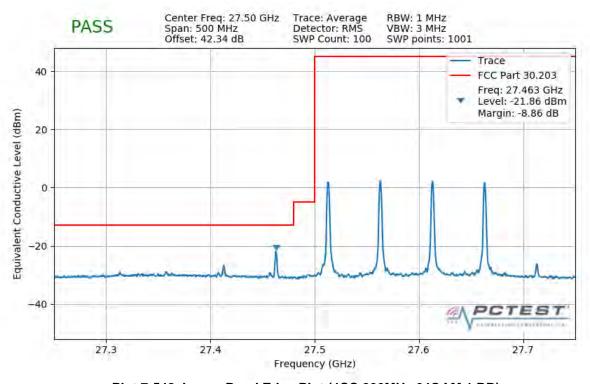
Plot 7-546. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977T	ENCHANGE CARRAGES (AC	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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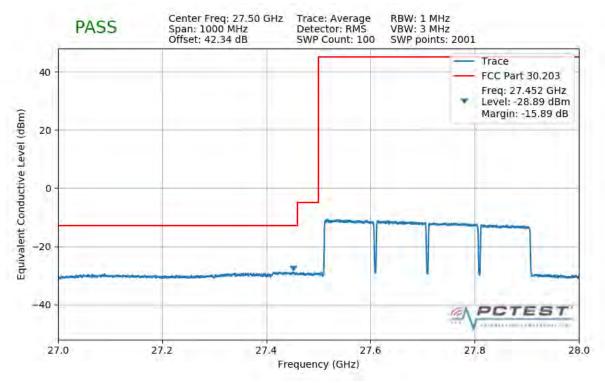
Plot 7-547. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



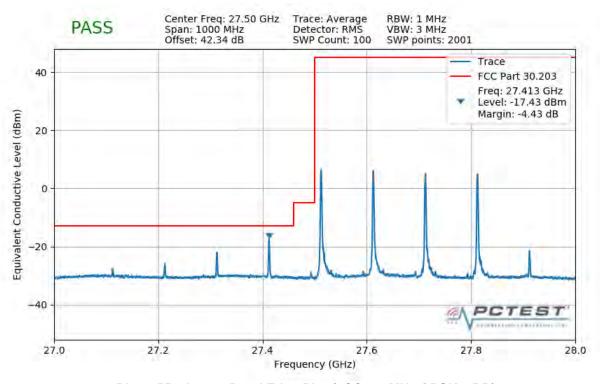
Plot 7-548. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977T	ENCHANGE LANDES THE	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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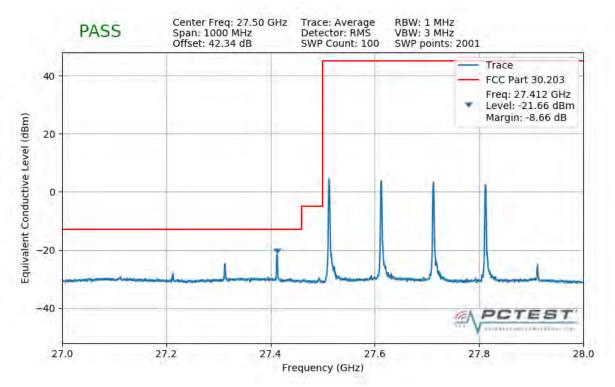
Plot 7-549. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



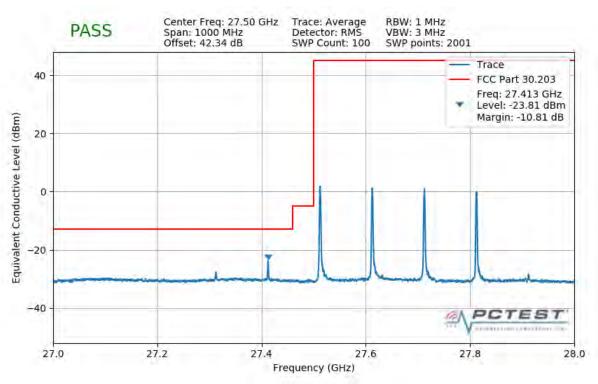
Plot 7-550. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

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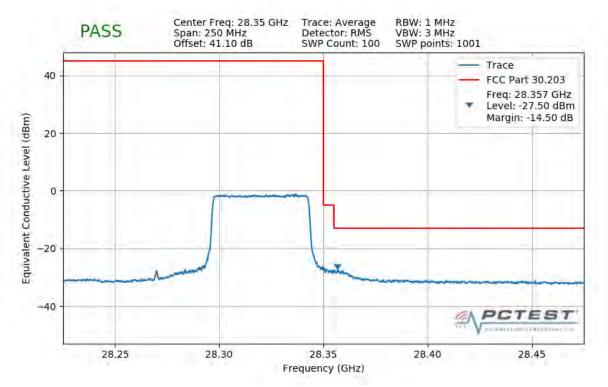
Plot 7-551. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



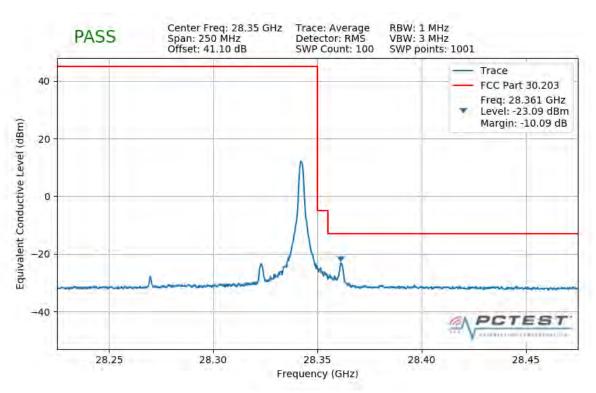
Plot 7-552. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

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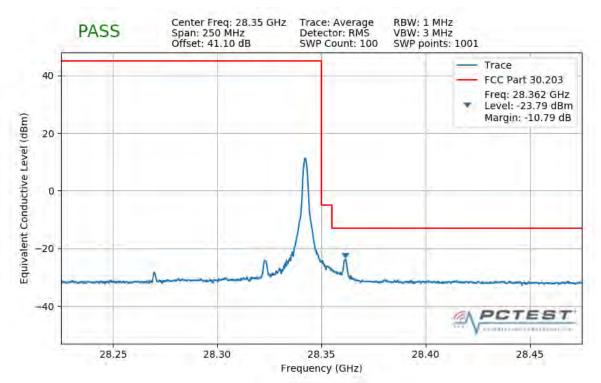
Plot 7-553. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



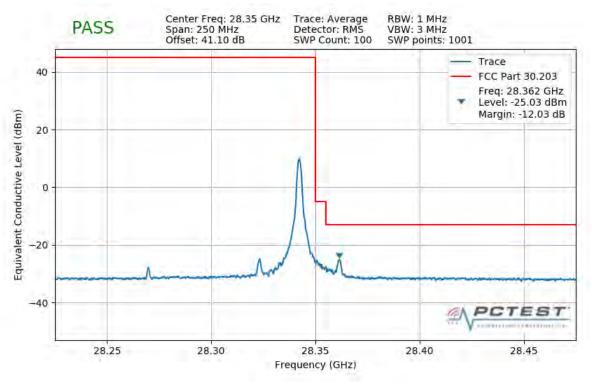
Plot 7-554. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

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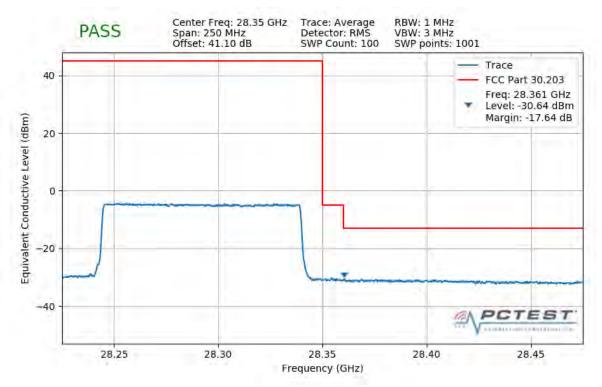
Plot 7-555. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



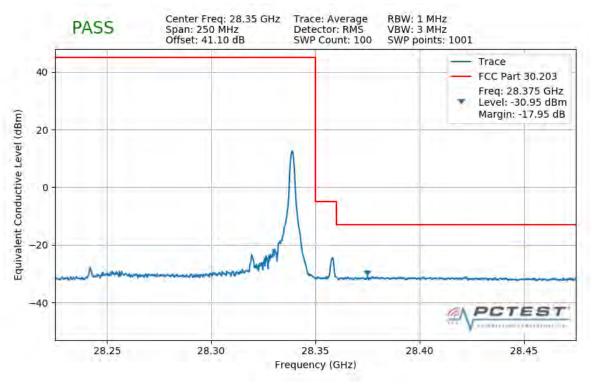
Plot 7-556. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

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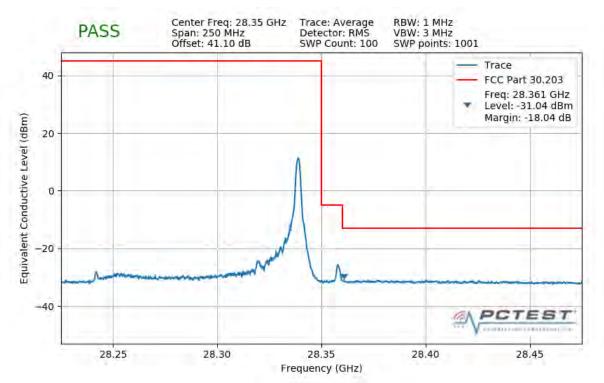
Plot 7-557. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



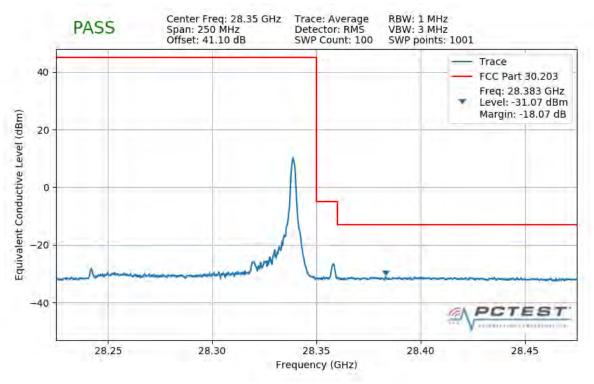
Plot 7-558. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

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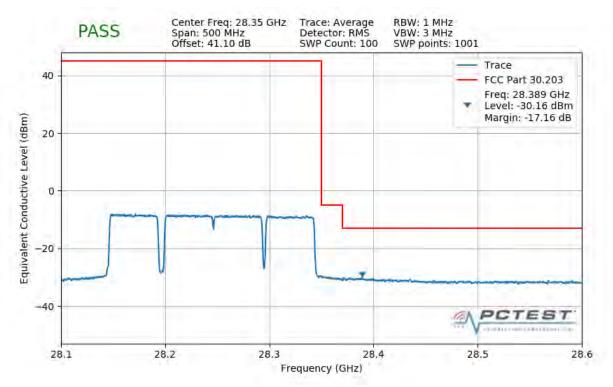
Plot 7-559. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



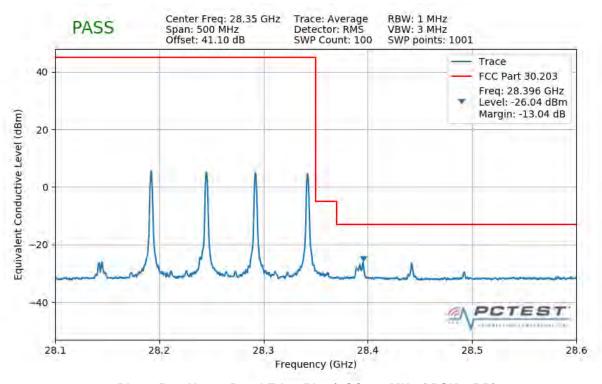
Plot 7-560. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

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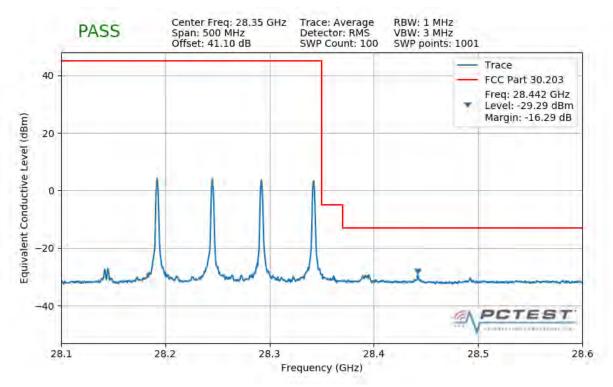
Plot 7-561. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



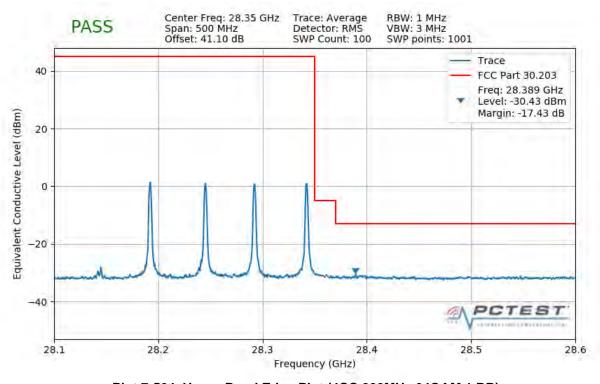
Plot 7-562. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

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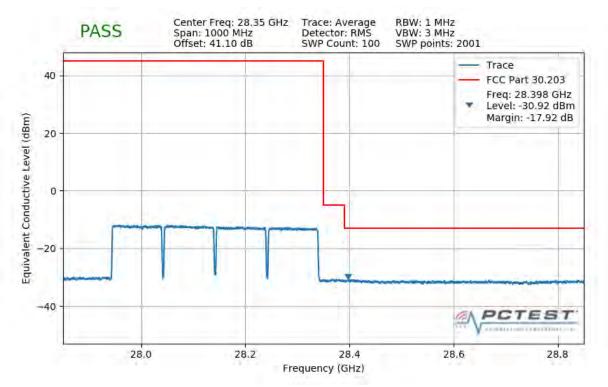
Plot 7-563. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



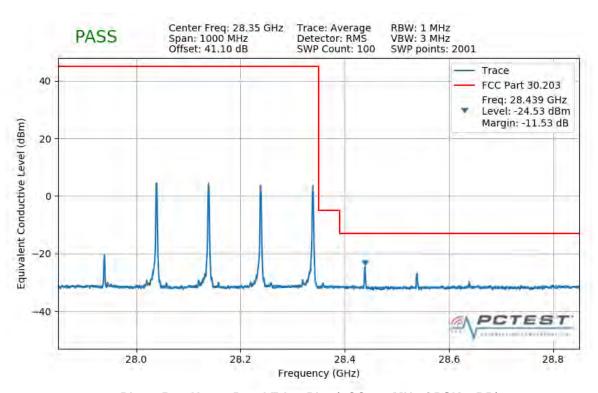
Plot 7-564. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

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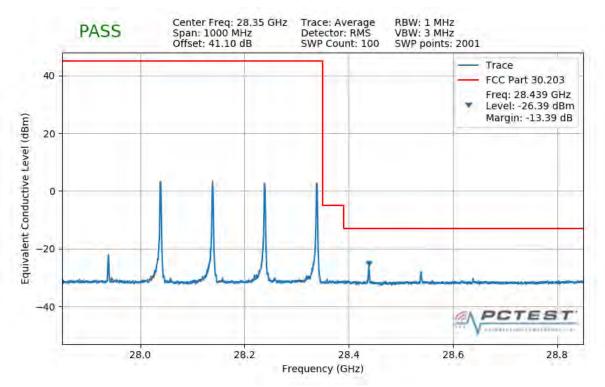
Plot 7-565. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



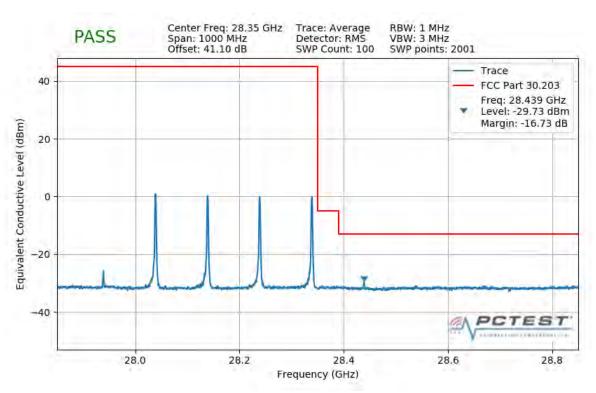
Plot 7-566. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

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Plot 7-567. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



Plot 7-568. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

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#### 7.6 Frequency Stability / Temperature Variation §2.1055

## **Test Overview and Limit**

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for b.) non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

## **Test Procedure Used**

ANSI C63.5-2015 Section 5.6

### **Test Settings**

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

## **Test Setup**

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber. Using a foam plug, the horn antenna measured the frequency of the fundamental signal.

### **Test Notes**

The Frequency Deviation column in the table below is the amount of deviation measured from the center frequency of the Reference measurement (first row).

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# **Frequency Stability Measurements** §2.1055

OPERATING FREQUENCY: 27,923,520,000 Hz

> CHANNEL: 2077100

REFERENCE VOLTAGE: 4.33 **VDC** 

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.33	- 30	27,924,065,329	-545,329	-0.0019529
100 %		- 20	27,924,008,817	-488,817	-0.0017506
100 %		- 10	27,923,927,616	-407,616	-0.0014598
100 %		0	27,924,056,446	-536,446	-0.0019211
100 %		+ 10	27,924,019,969	-499,969	-0.0017905
100 %		+ 20	27,923,873,982	-353,982	-0.0012677
100 %		+ 30	27,923,894,432	-374,432	-0.0013409
100 %		+ 40	27,923,908,788	-388,788	-0.0013923
100 %		+ 50	27,923,931,168	-411,168	-0.0014725
BATT. ENDPOINT	3.46	+ 20	27,923,901,226	-381,226	-0.0013652

Table 7-36. Frequency Stability Data

## Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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# **Frequency Stability Measurements** §2.1055

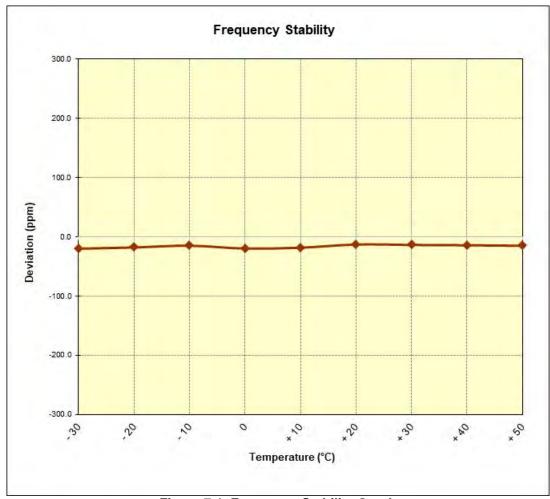


Figure 7-1. Frequency Stability Graph

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#### CONCLUSION 8.0

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMG977T complies with all the requirements of Part 30.

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# 9.0 APPENDIX A

## 9.1 VDI Mixer Verification Certificate



## Virginia Diodes, Inc

979 2nd St. SE Suite 309 Charlottesville, VA 22902 Phone: 434-297-3257 Fax: 434-297-3258

### Certificate of Conformance

To: PCTEST Engineering Laboratory 6660-B Dobbin Road Columbia, MD 21045 United States From: Virginia Diodes, Inc 979 2nd St. SE Suite 309 Charlottesville, VA 22902

Quantity

Shipped

Unit Description

EA VDIWR12.0SAX WR12SAX - Spectrum Analyzer Extension

Module / SN: SAX 252

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature Virginia Diodes, Inc

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## Virginia Diodes, Inc

979 2nd St. SE Suite 309 Charlottesville, VA 22902 Phone: 434-297-3257 Fax: 434-297-3258

## Certificate of Conformance

To: PCTEST Engineering Laboratory 6660-B Dobbin Road Columbia, MD 21045 United States From: Virginia Diodes, Inc 979 2nd St. SE Suite 309 Charlottesville, VA 22902

Shipping Date: 05/08/18

Today's Date: 05/08/18

Quantity

Shipped

Description

EA

<u>Unit</u>

VDIWR8.0SAX

WR8.0SAX - Spectrum Analyzer Extension Module; SN: SAX 253.

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature Virginia Diodes, Inc

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