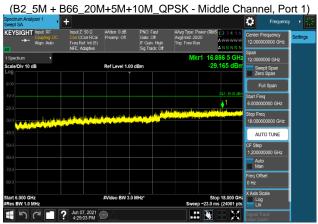


Plot 7-2383. Conducted Spurious Emission Plot 30 MHz to 1 GHz

 $(B2_5M + B66_$ \_20M+5M+10M\_QPSK - Middle Channel, Port 1) ø AUTO TUNE **■** 9 7 **■** ? Jun 07, 2021 **●** ...

Plot 7-2385. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz



Plot 7-2387. Conducted Spurious Emission Plot 6 GHz to 18 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 1)



Plot 7-2384. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz



Plot 7-2386. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz



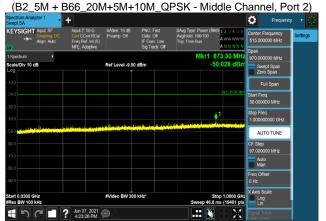
Plot 7-2388. Conducted Spurious Emission Plot 18 GHz to 22 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 1)

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Plot 7-2389. Conducted Spurious Emission Plot 9 kHz to 150 kHz



Plot 7-2391. Conducted Spurious Emission Plot 30 MHz to 1 GHz



Plot 7-2393. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 2)



Plot 7-2390. Conducted Spurious Emission Plot 150 kHz to 30 MHz



Plot 7-2392. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz



Plot 7-2394. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 2)

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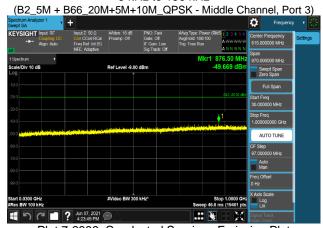




Plot 7-2395. Conducted Spurious Emission Plot 6 GHz to 18 GHz



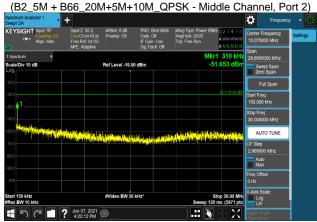
Plot 7-2397. Conducted Spurious Emission Plot 9 kHz to 150 kHz



Plot 7-2399. Conducted Spurious Emission Plot 30 MHz to 1 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 3)



Plot 7-2396. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2398. Conducted Spurious Emission Plot 150 kHz to 30 MHz



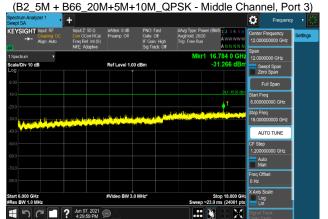
Plot 7-2400. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - Middle Channel, Port 3)

FCC ID: A3LRF4402D-D1A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	Approved by: Technical Manager	
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Plot 7-2401. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz



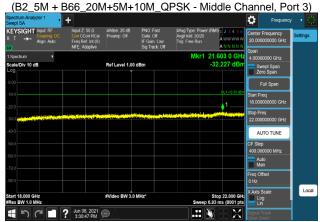
Plot 7-2403. Conducted Spurious Emission Plot 6 GHz to 18 GHz



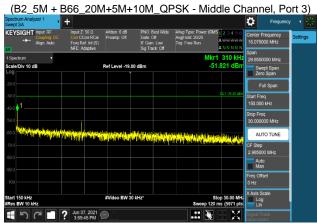
Plot 7-2405. Conducted Spurious Emission Plot 9 kHz to 150 kHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 0)



Plot 7-2402. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz



Plot 7-2404. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2406. Conducted Spurious Emission Plot 150 kHz to 30 MHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 0)

FCC ID: A3LRF4402D-D1A	PCTEST*	MEASUREMENT REPORT (Class II Permissive Change)	Approved by: Technical Manager
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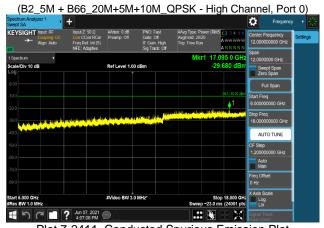




Plot 7-2407. Conducted Spurious Emission Plot 30 MHz to 1 GHz



Plot 7-2409. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz



Plot 7-2411. Conducted Spurious Emission Plot 6 GHz to 18 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 0)



Plot 7-2408. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz



Plot 7-2410. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz



Plot 7-2412. Conducted Spurious Emission Plot 18 GHz to 22 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 0)

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 $(B2_5M + B66_$ 



Plot 7-2413. Conducted Spurious Emission Plot 9 kHz to 150 kHz

\_20M+5M+10M\_QPSK - High Channel, Port 1)

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Plot 7-2415. Conducted Spurious Emission Plot 30 MHz to 1 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 1)



Plot 7-2417. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 1)



Plot 7-2414. Conducted Spurious Emission Plot 150 kHz to 30 MHz



Plot 7-2416. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 1)



Plot 7-2418. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 1)

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 $(B2_5M + B66_$ 

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Plot 7-2419. Conducted Spurious Emission Plot 6 GHz to 18 GHz

\_20M+5M+10M\_QPSK - High Channel, Port 1)

ø AUTO TUNE

Plot 7-2421. Conducted Spurious Emission Plot 9 kHz to 150 kHz

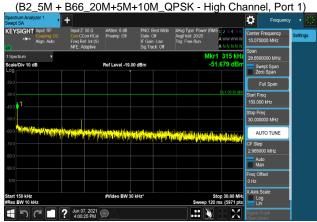
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Plot 7-2423. Conducted Spurious Emission Plot 30 MHz to 1 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 2)



Plot 7-2420. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2422. Conducted Spurious Emission Plot 150 kHz to 30 MHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 2)



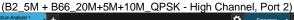
Plot 7-2424. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 2)

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Plot 7-2425. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz





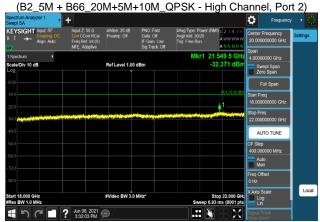
Plot 7-2427. Conducted Spurious Emission Plot 6 GHz to 18 GHz



Plot 7-2429. Conducted Spurious Emission Plot 9 kHz to 150 kHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 3)



Plot 7-2426. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz



Plot 7-2428. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2430. Conducted Spurious Emission Plot 150 kHz to 30 MHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 3)

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Plot 7-2431. Conducted Spurious Emission Plot 30 MHz to 1 GHz



Plot 7-2433. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz



Plot 7-2435. Conducted Spurious Emission Plot 6 GHz to 18 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 3)



Plot 7-2432. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz



Plot 7-2434. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 3)



Plot 7-2436. Conducted Spurious Emission Plot 18 GHz to 22 GHz (B2\_5M + B66\_20M+5M+10M\_QPSK - High Channel, Port 3)

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- B2\_20M + B66\_15M+10M+10M\_Carrier Aggregation

Channel	Port	Measurement Range	Level(dBm)	Limit (dBm)	Margin (dB)
		9 kHz to 150 kHz	-59.047	-49.0	-10.027
		150 kHz to 30 MHz	-51.871	-39.0	-12.851
		30 MHz to 1 GHz	-50.686	-29.0	-21.666
		1 GHz to 1.928 GHz	-33.126	-19.0	-14.106
	0	1.992 MHz to 2.108 GHz	-31.346	-19.0	-12.326
		2.182 GHz to 6 GHz	-26.066	-19.0	-7.046
		6 GHz to 18 GHz	-29.819	-19.0	-10.799
		18 GHz to 22 GHz	-32.527	-19.0	-13.507
		9 kHz to 150 kHz	-59.462	-49.0	-10.442
		150 kHz to 30 MHz	-52.798	-39.0	-13.778
		30 MHz to 1 GHz	-50.654	-29.0	-21.634
		1 GHz to 1.928 GHz	-32.041	-19.0	-13.021
	1	1.992 MHz to 2.108 GHz	-31.016	-19.0	-11.996
		2.182 GHz to 6 GHz	-24.192	-19.0	-5.172
		6 GHz to 18 GHz	-29.869	-19.0	-10.849
		18 GHz to 22 GHz	-32.191	-19.0	-13.171
Low		9 kHz to 150 kHz	-58.638	-49.0	-9.618
		150 kHz to 30 MHz	-52.010	-39.0	-12.990
		30 MHz to 1 GHz	-49.545	-29.0	-20.525
		1 GHz to 1.928 GHz	-32.959	-19.0	-13.939
2	2	1.992 MHz to 2.108 GHz	-31.431	-19.0	-12.411
		2.182 GHz to 6 GHz	-25.568	-19.0	-6.548
		6 GHz to 18 GHz	-31.839	-19.0	-12.819
		18 GHz to 22 GHz	-31.876	-19.0	-12.856
		9 kHz to 150 kHz	-59.146	-49.0	-10.126
		150 kHz to 30 MHz	-52.564	-39.0	-13.544
	_	30 MHz to 1 GHz	-50.120	-29.0	-21.100
		1 GHz to 1.928 GHz	-33.405	-19.0	-14.385
	3	1.992 MHz to 2.108 GHz	-31.117	-19.0	-12.097
	_	2.182 GHz to 6 GHz	-25.880	-19.0	-6.860
		6 GHz to 18 GHz	-32.055	-19.0	-13.035
		18 GHz to 22 GHz	-32.061	-19.0	-13.041
		9 kHz to 150 kHz	-59.444	-49.0	-10.424
		150 kHz to 30 MHz	-52.474	-39.0	-13.454
		30 MHz to 1 GHz	-49.960	-29.0	-20.940
		1 GHz to 1.928 GHz	-34.442	-19.0	-15.422
	0	1.992 MHz to 2.108 GHz	-32.850	-19.0	-13.830
		2.182 GHz to 6 GHz	-25.005	-19.0	-5.985
		6 GHz to 18 GHz	-29.697	-19.0	-10.677
		18 GHz to 22 GHz	-31.789	-19.0	-12.769
		9 kHz to 150 kHz	-51.769	-49.0	-10.757
Middle 1		150 kHz to 30 MHz	-52.645	-39.0	-13.625
		30 MHz to 1 GHz	-52.045	-39.0	-13.625
		1 GHz to 1.928 GHz		+	
	1		-34.918 -32.956	-19.0	-15.898
		1.992 MHz to 2.108 GHz	-32.956	-19.0	-13.936
		2.182 GHz to 6 GHz	-23.440	-19.0	-4.420
		6 GHz to 18 GHz	-28.579	-19.0	-9.559
		18 GHz to 22 GHz	-32.057	-19.0	-13.037
		9 kHz to 150 kHz	-58.951	-49.0	-9.931
		150 kHz to 30 MHz	-51.641	-39.0	-12.621
		30 MHz to 1 GHz	-50.482	-29.0	-21.462

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<u>'</u>		1 GHz to 1.928 GHz	-34.568	-19.0	-15.548
	2	1.992 MHz to 2.108 GHz	-32.559	-19.0	-13.539
		2.182 GHz to 6 GHz	-25.414	-19.0	-6.394
		6 GHz to 18 GHz	-31.776	-19.0	-12.756
		18 GHz to 22 GHz	-32.162	-19.0	-13.142
		9 kHz to 150 kHz	-59.599	-49.0	-10.579
		150 kHz to 30 MHz	-52.828	-39.0	-13.808
		30 MHz to 1 GHz	-50.740	-29.0	-21.720
		1 GHz to 1.928 GHz	-34.398	-19.0	-15.378
	3	1.992 MHz to 2.108 GHz	-32.875	-19.0	-13.855
		2.182 GHz to 6 GHz	-24.273	-19.0	-5.253
		6 GHz to 18 GHz	-30.431	-19.0	-11.411
		18 GHz to 22 GHz	-31.835	-19.0	-12.815
		9 kHz to 150 kHz	-59.324	-49.0	-10.304
		150 kHz to 30 MHz	-52.638	-39.0	-13.618
		30 MHz to 1 GHz	-50.539	-29.0	-21.519
	_ [	1 GHz to 1.928 GHz	-33.712	-19.0	-14.692
	0	1.992 MHz to 2.108 GHz	-31.465	-19.0	-12.445
		2.182 GHz to 6 GHz	-25.386	-19.0	-6.366
		6 GHz to 18 GHz	-30.363	-19.0	-11.343
		18 GHz to 22 GHz	-32.513	-19.0	-14.692 -12.445 -6.366 -11.343 -13.493 -10.945 -13.722 -20.861 -13.414 -10.496 -5.566
		9 kHz to 150 kHz	-59.965	-49.0	-10.945
		150 kHz to 30 MHz	-52.742	-39.0	-13.722
		30 MHz to 1 GHz	-49.881	-29.0	-20.861
		1 GHz to 1.928 GHz	-32.434	-19.0	-13.414
	1	1.992 MHz to 2.108 GHz	-29.516	-19.0	-10.496
		2.182 GHz to 6 GHz	-24.586	-19.0	-5.566
		6 GHz to 18 GHz	-28.557	-19.0	-9.537
l limb		18 GHz to 22 GHz	-32.764	-19.0	-13.744
High		9 kHz to 150 kHz	-58.611	-49.0	-9.591
		150 kHz to 30 MHz	-52.361	-39.0	-13.341
		30 MHz to 1 GHz	-50.622	-29.0	-21.602
		1 GHz to 1.928 GHz	-34.342	-19.0	-15.322
	2	1.992 MHz to 2.108 GHz	-31.625	-19.0	-12.605
		2.182 GHz to 6 GHz	-24.829	-19.0	-5.809
		6 GHz to 18 GHz	-31.689	-19.0	-12.669
		18 GHz to 22 GHz	-32.280	-19.0	-13.260
		9 kHz to 150 kHz	-59.319	-49.0	-10.299
		150 kHz to 30 MHz	-53.050	-39.0	-14.030
		30 MHz to 1 GHz	-51.150	-29.0	-22.130
		1 GHz to 1.928 GHz	-35.199	-19.0	-16.179
	3	1.992 MHz to 2.108 GHz	-29.825	-19.0	-10.805
		2.182 GHz to 6 GHz	-25.802	-19.0	-6.782
		6 GHz to 18 GHz	-30.856	-19.0	-11.836
		18 GHz to 22 GHz	-32.546	-19.0	-13.526

Table 7-43. Conducted Spurious Emission Summary Data (B2\_20M + B66\_15M+10M+10M\_Carrier Aggregation)

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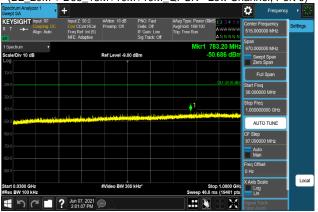


## - B2 20M + B66\_15M+10M+10M \_Carrier Aggregation



Plot 7-2437. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 0)



Plot 7-2439. Conducted Spurious Emission Plot 30 MHz to 1 GHz



Plot 7-2441. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz

(B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 0)



Plot 7-2438. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 0)



Plot 7-2440. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz



Plot 7-2442. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz

(B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 0)

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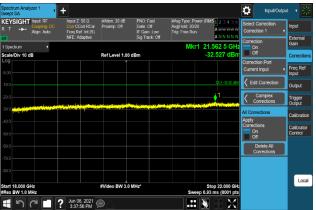
Plot 7-2443. Conducted Spurious Emission Plot 6 GHz to 18 GHz



Plot 7-2445. Conducted Spurious Emission Plot 9 kHz to 150 kHz



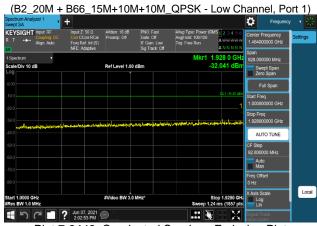
Plot 7-2447. Conducted Spurious Emission Plot 30 MHz to 1 GHz (B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 1)



Plot 7-2444. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2446. Conducted Spurious Emission Plot 150 kHz to 30 MHz



Plot 7-2448. Conducted Spurious Emission Plot 1 GHz to 1.928 GHz (B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 1)

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Plot 7-2449. Conducted Spurious Emission Plot 1.992 GHz to 2.108 GHz

(B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 1) ø



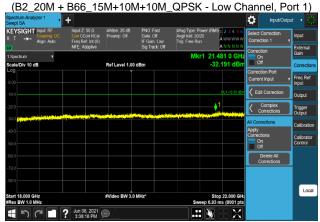
Plot 7-2451. Conducted Spurious Emission Plot 6 GHz to 18 GHz



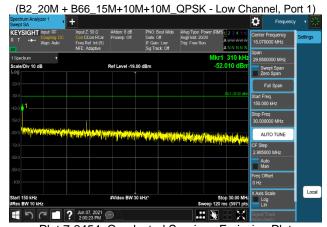
Plot 7-2453. Conducted Spurious Emission Plot 9 kHz to 150 kHz (B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 2)



Plot 7-2450. Conducted Spurious Emission Plot 2.182 GHz to 6 GHz



Plot 7-2452. Conducted Spurious Emission Plot 18 GHz to 22 GHz



Plot 7-2454. Conducted Spurious Emission Plot 150 kHz to 30 MHz (B2\_20M + B66\_15M+10M+10M\_QPSK - Low Channel, Port 2)

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