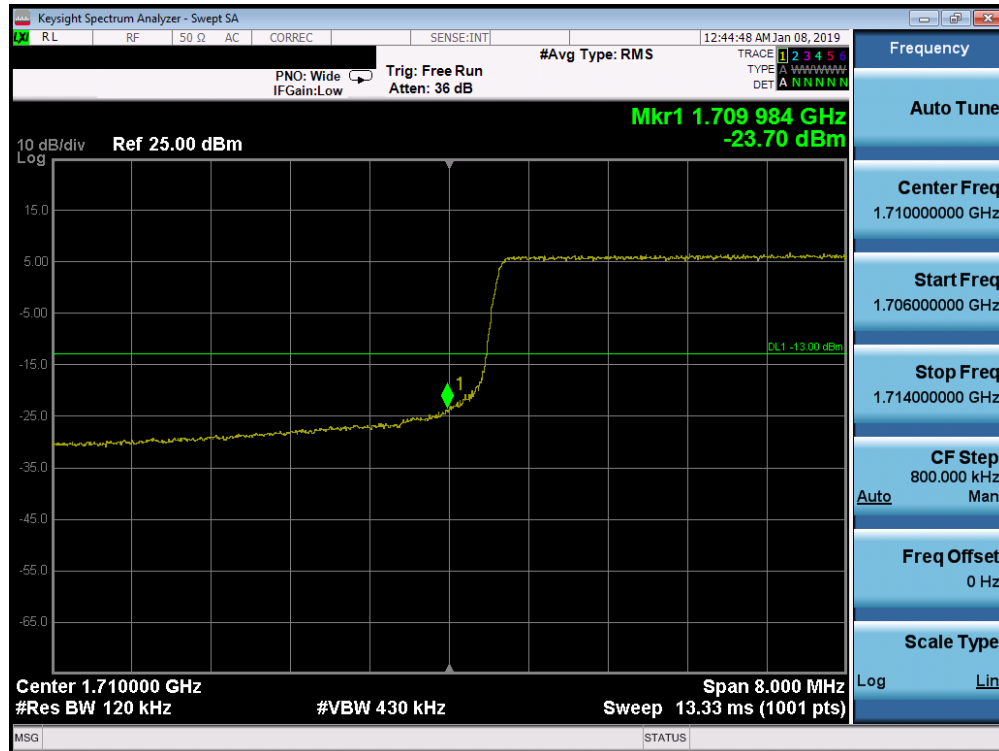
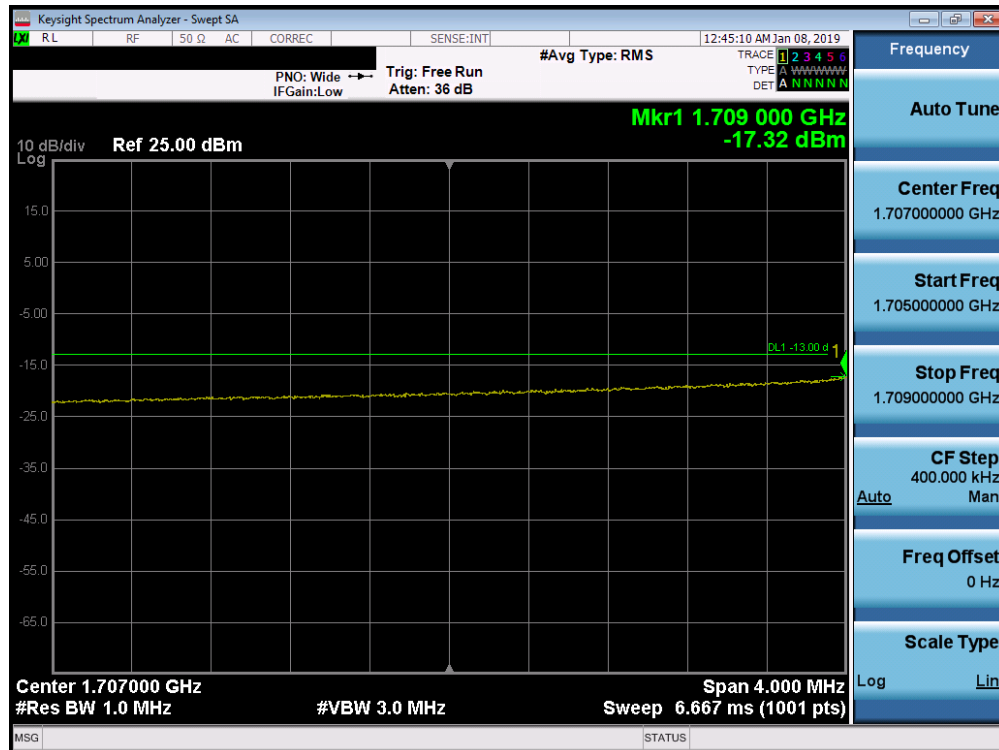


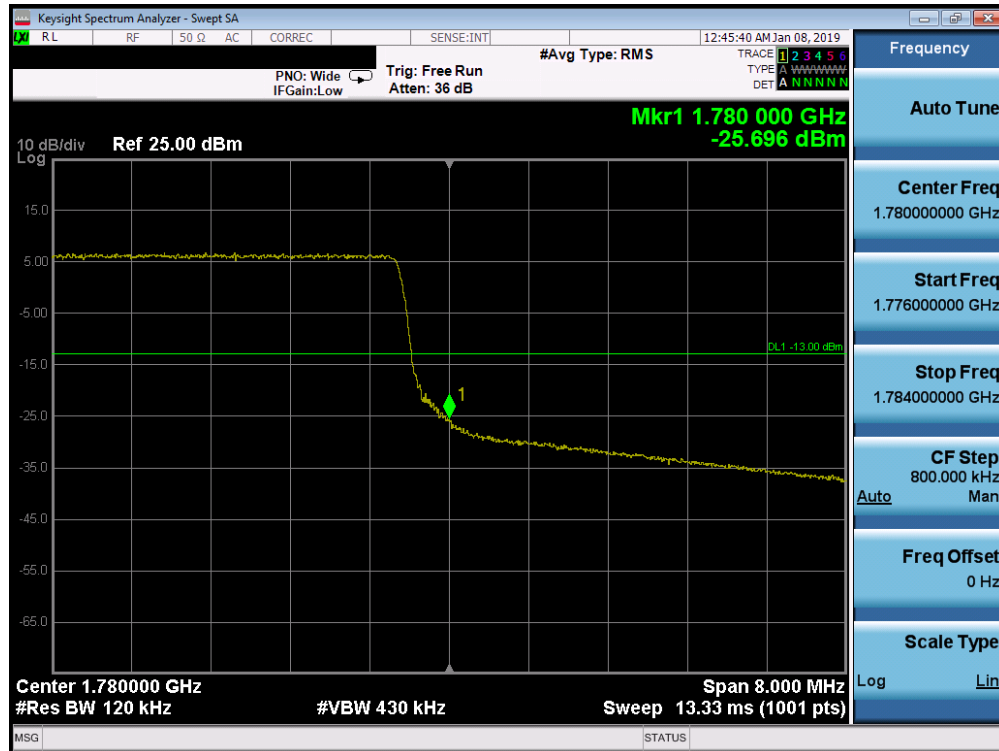


Plot 7-213. Lower Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

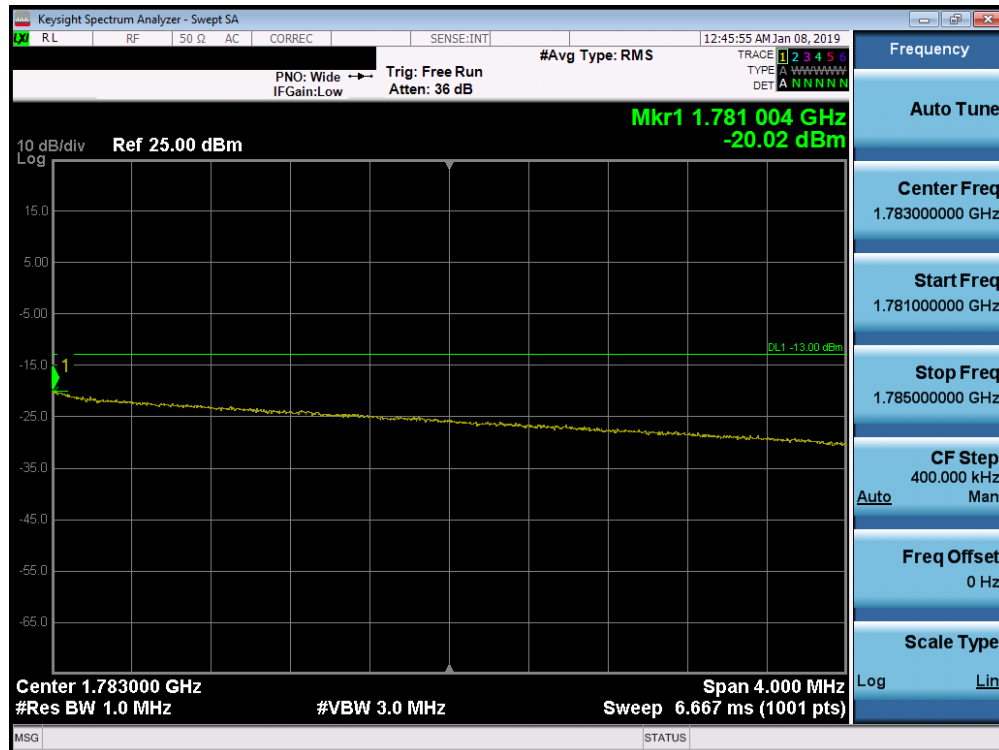


Plot 7-214. Lower Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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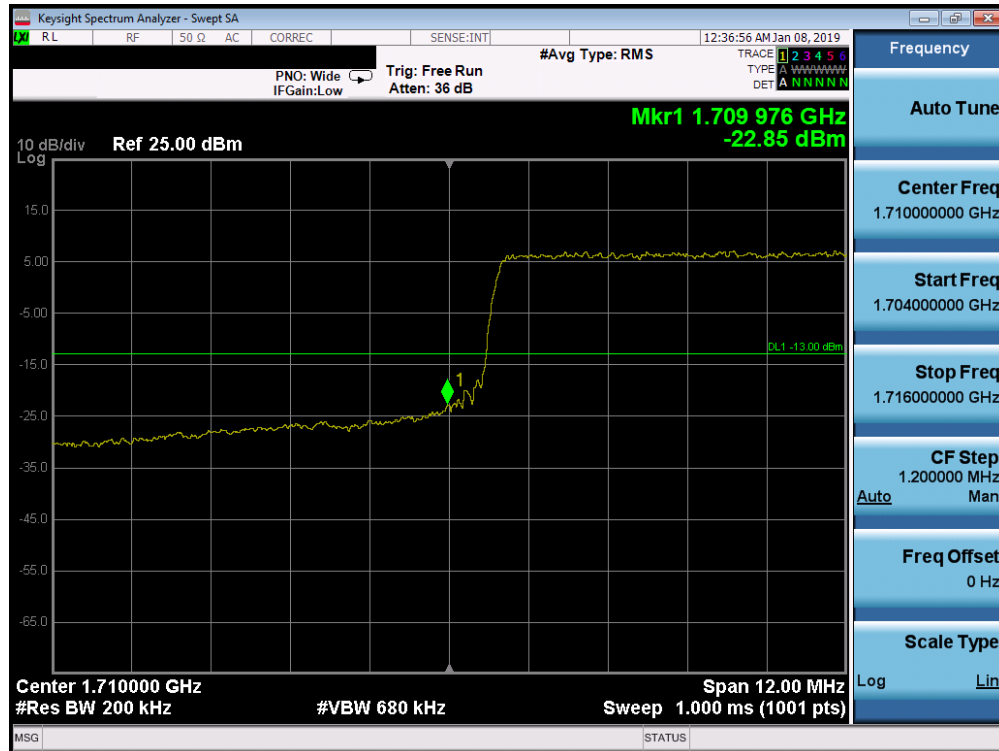


Plot 7-215. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

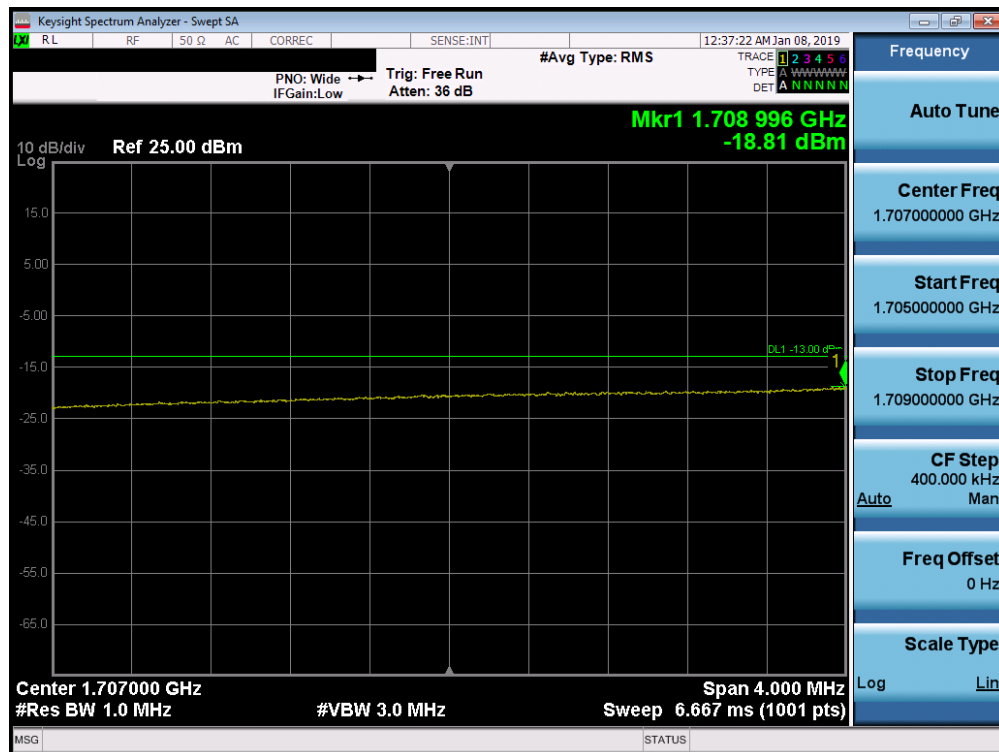


Plot 7-216. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 136 of 338



Plot 7-217. Lower Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

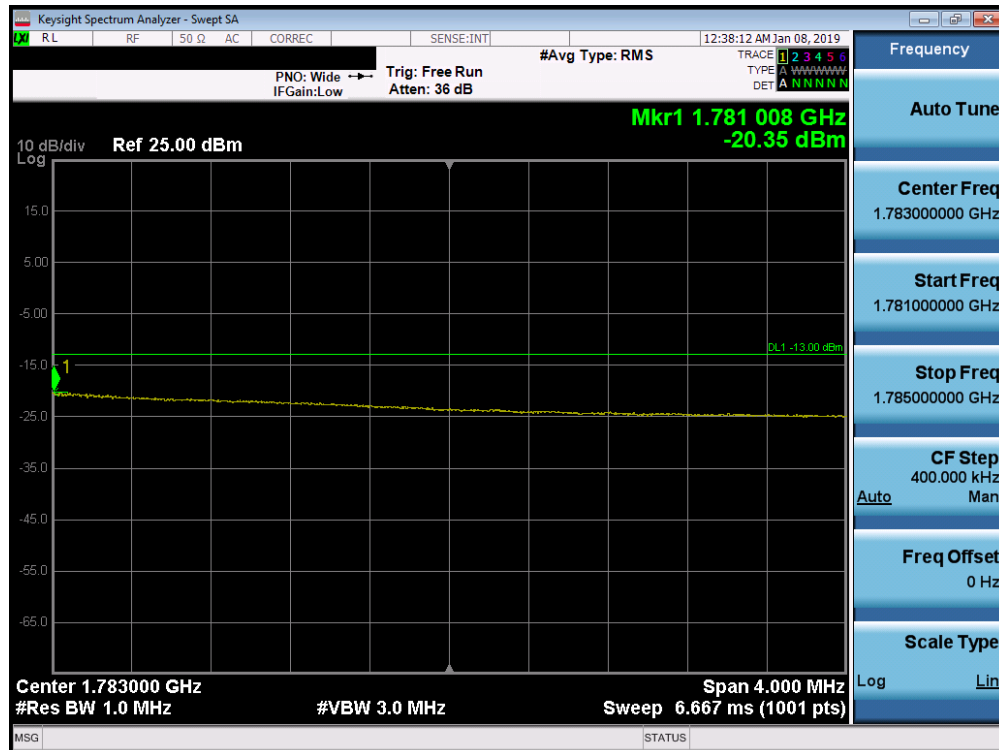


Plot 7-218. Lower Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 137 of 338

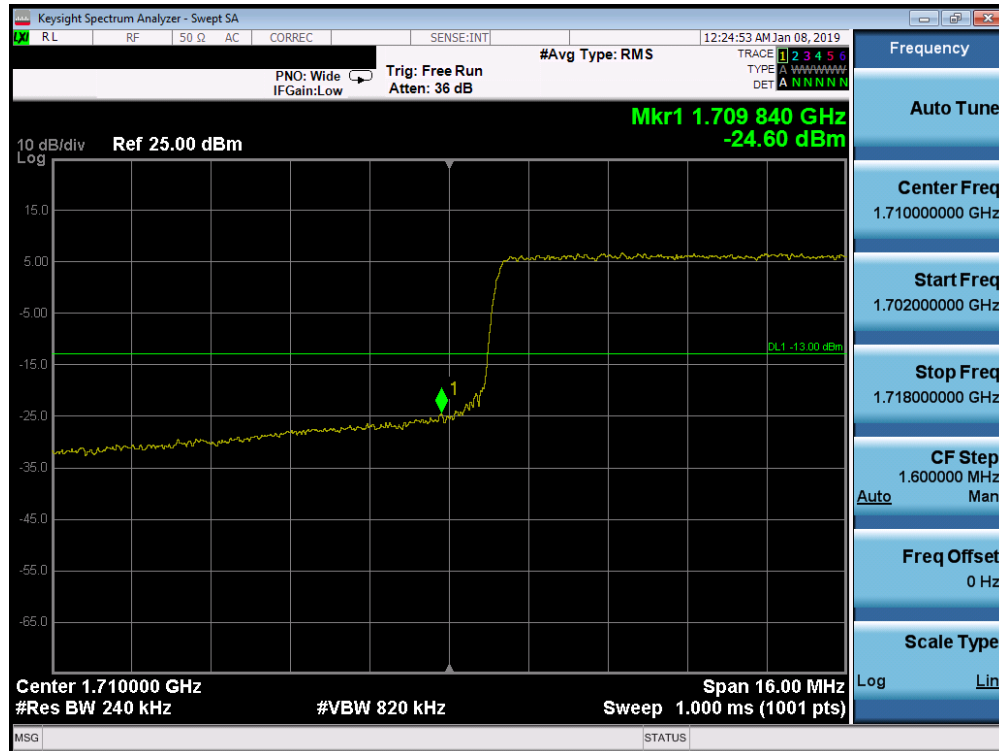


Plot 7-219. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

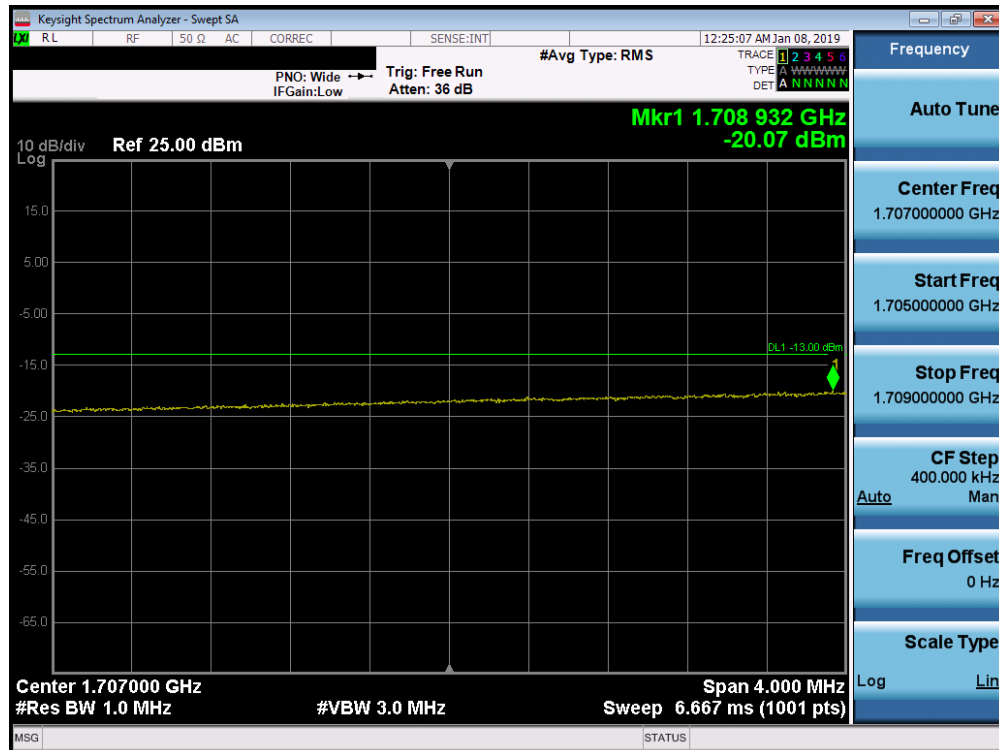


Plot 7-220. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 138 of 338



Plot 7-221. Lower Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

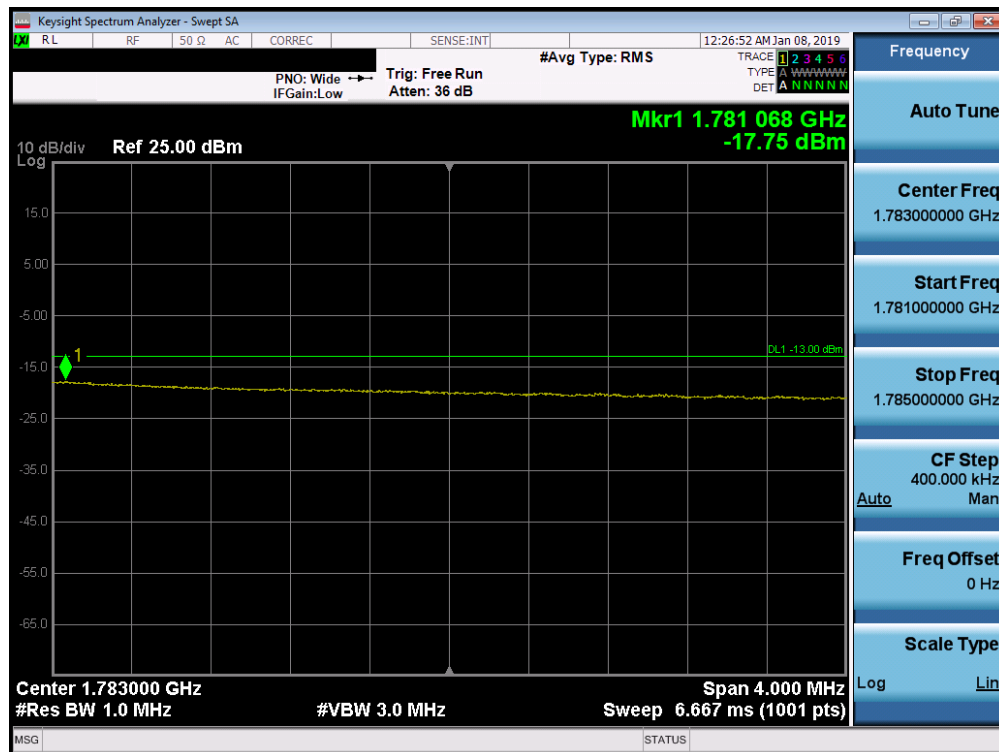


Plot 7-222. Lower Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 139 of 338



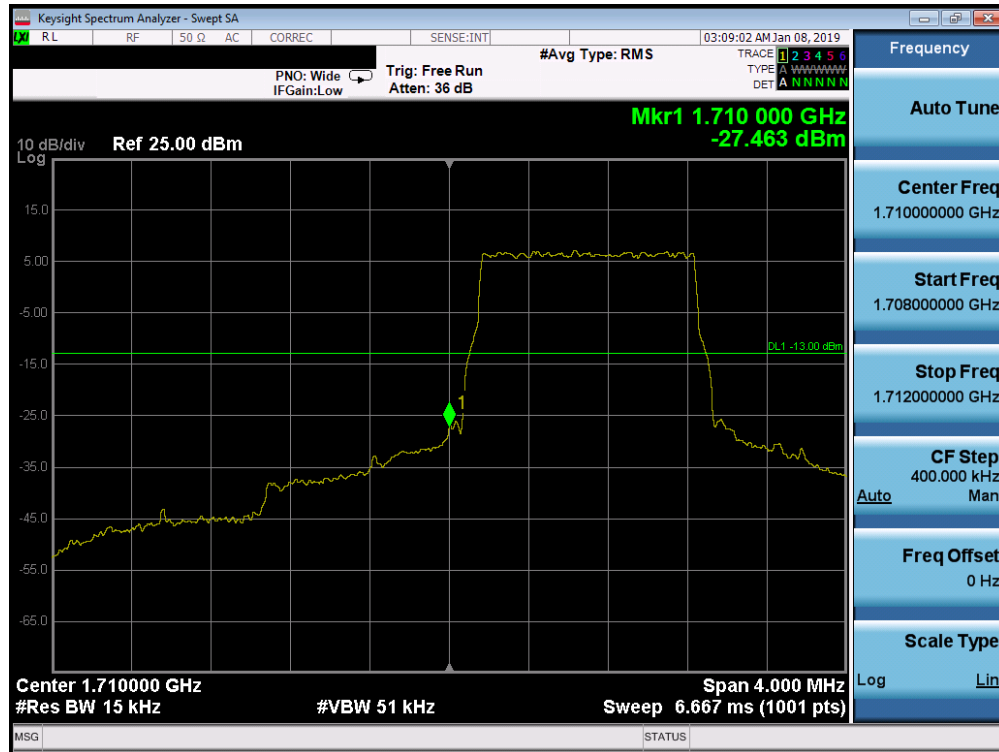
Plot 7-223. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



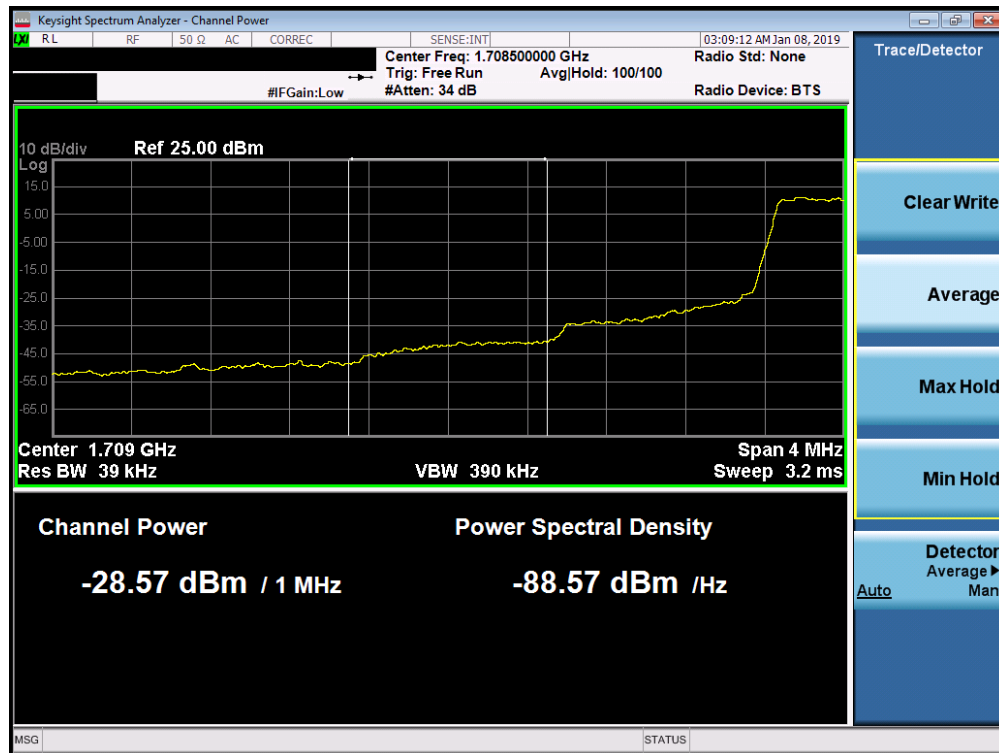
Plot 7-224. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 140 of 338

Band 4



Plot 7-225. Lower Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

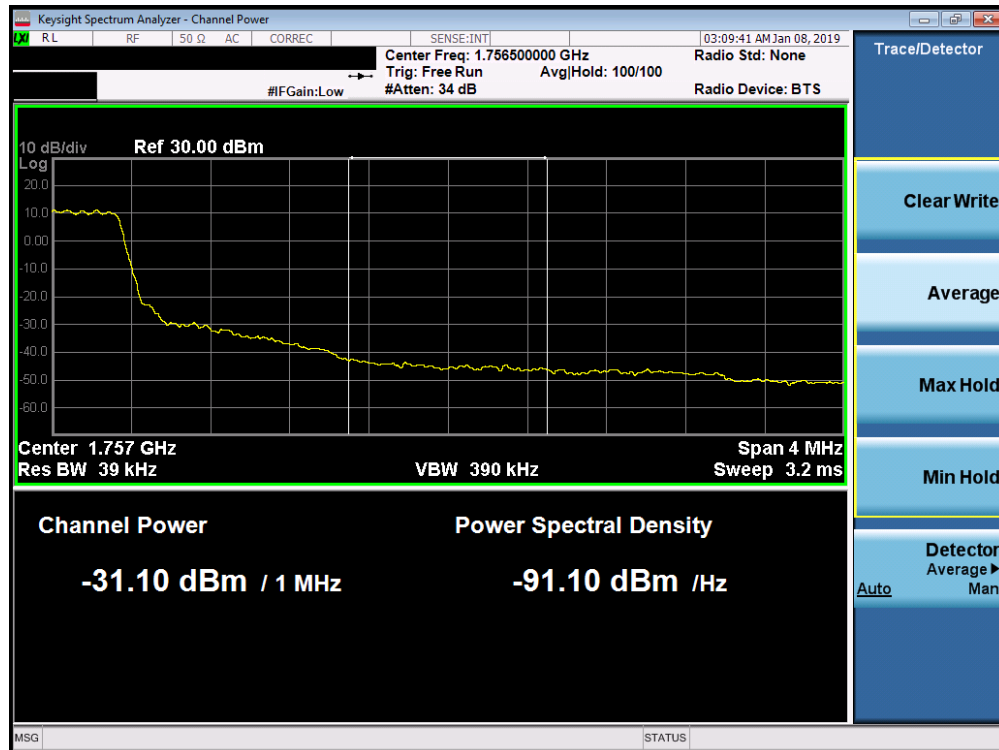


Plot 7-226. Lower Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 141 of 338

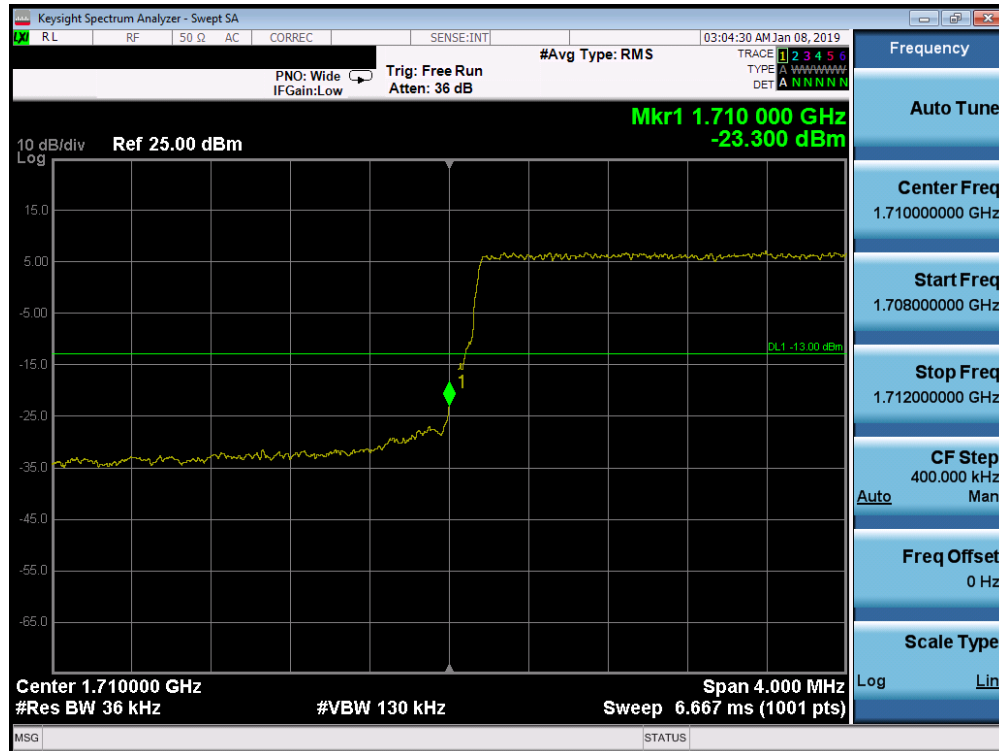


Plot 7-227. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

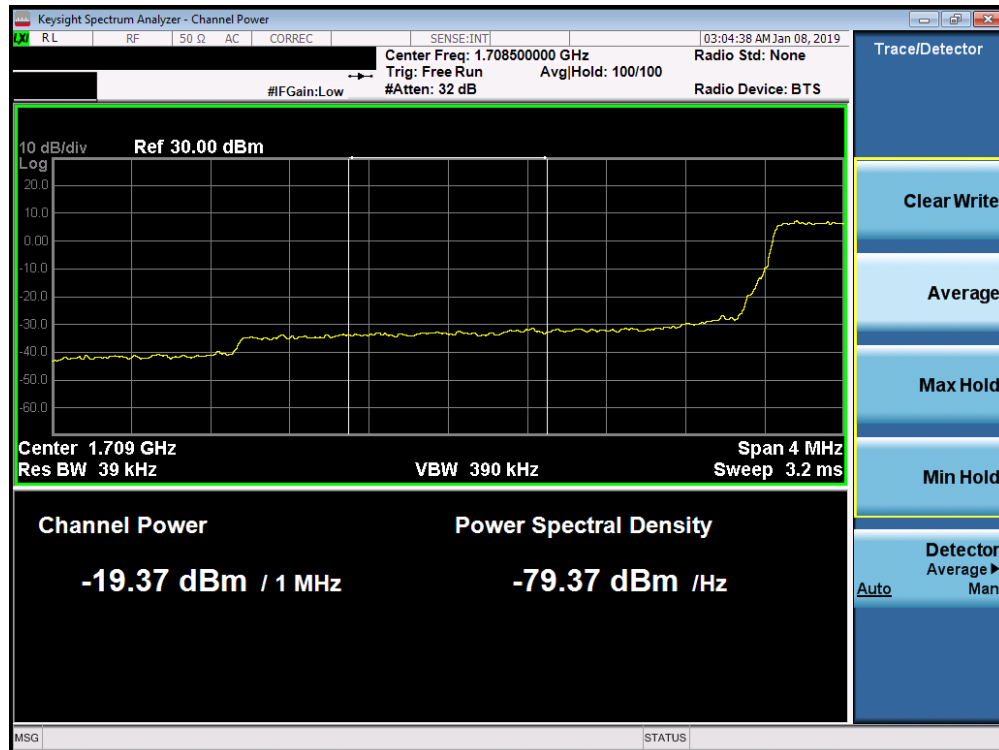


Plot 7-228. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 142 of 338



Plot 7-229. Lower Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

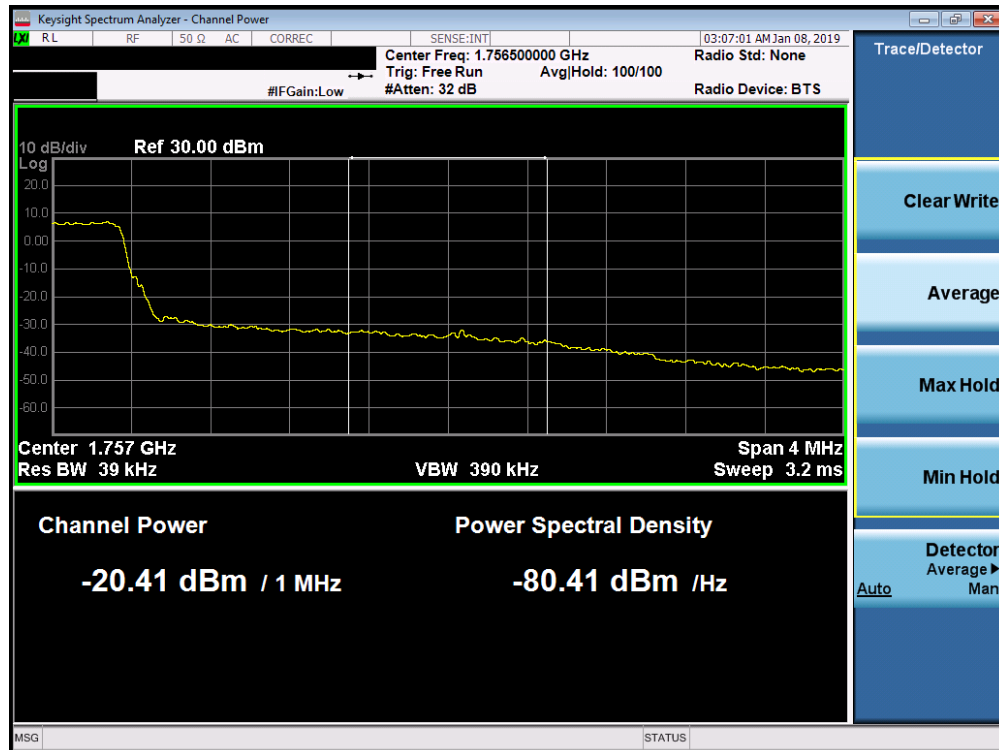


Plot 7-230. Lower Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 143 of 338

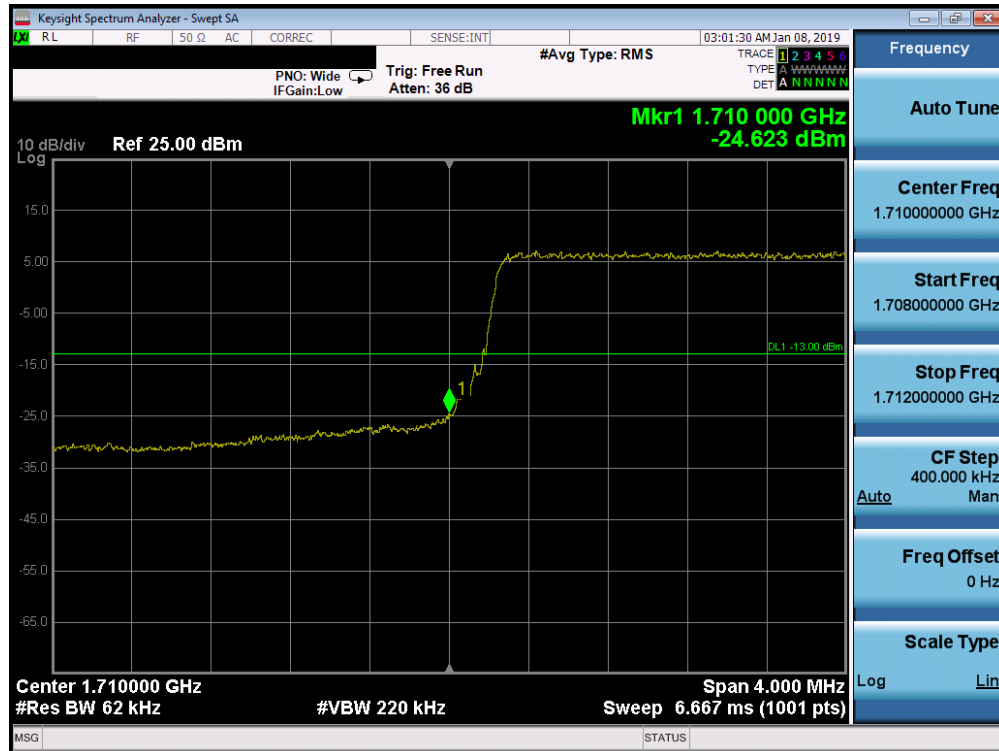


Plot 7-231. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

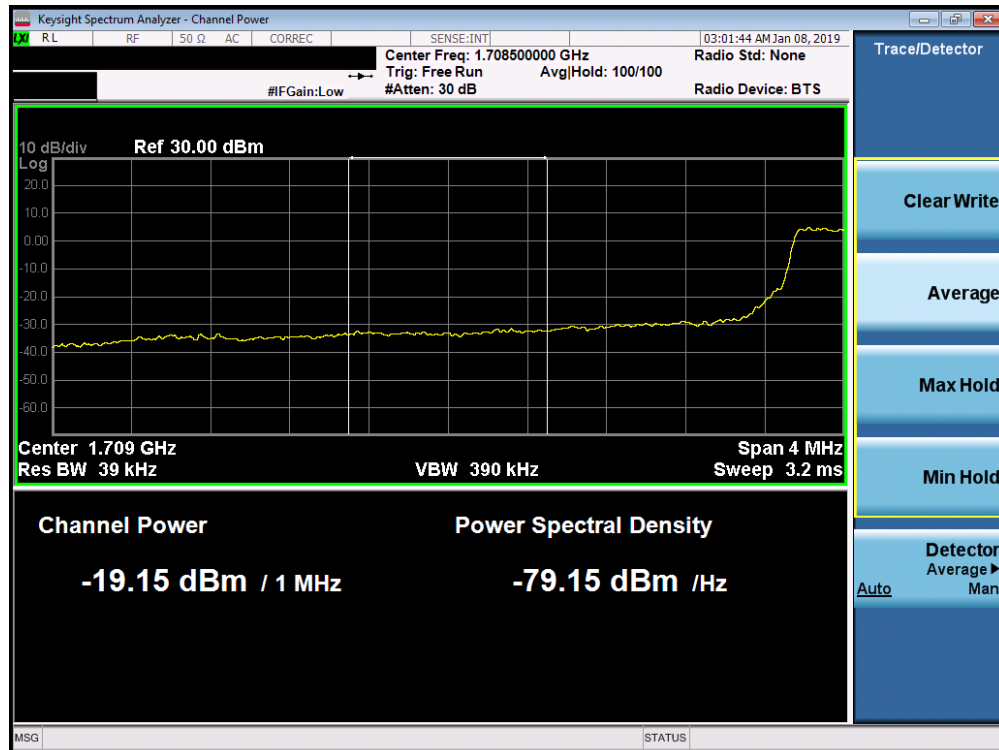


Plot 7-232. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 144 of 338



Plot 7-233. Lower Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

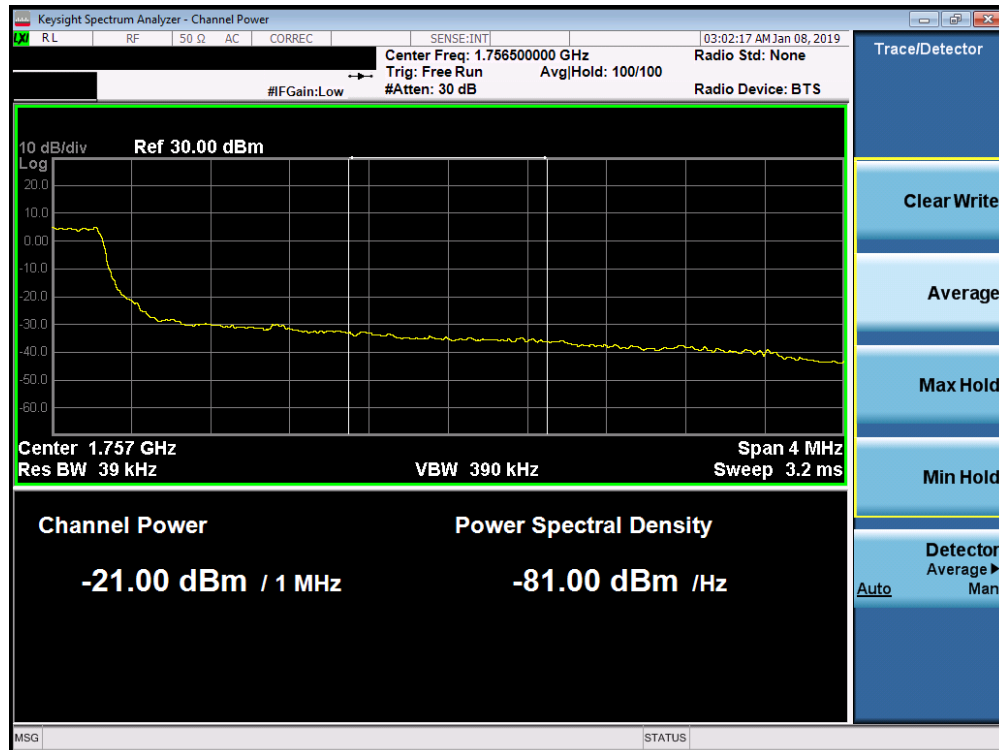


Plot 7-234. Lower Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 145 of 338

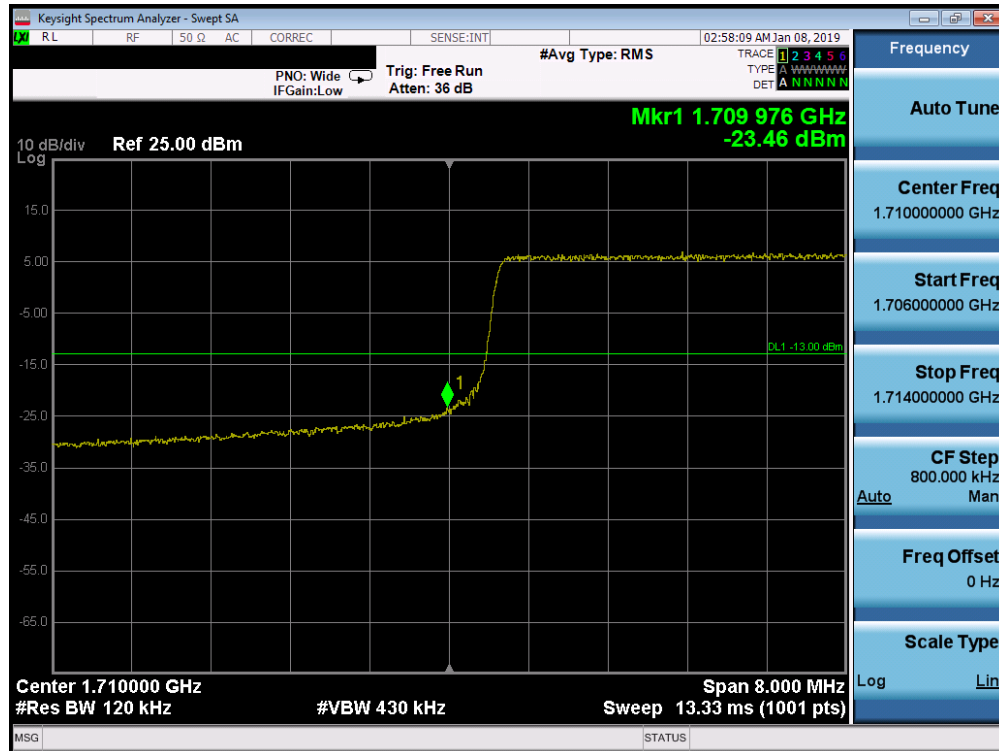


Plot 7-235. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

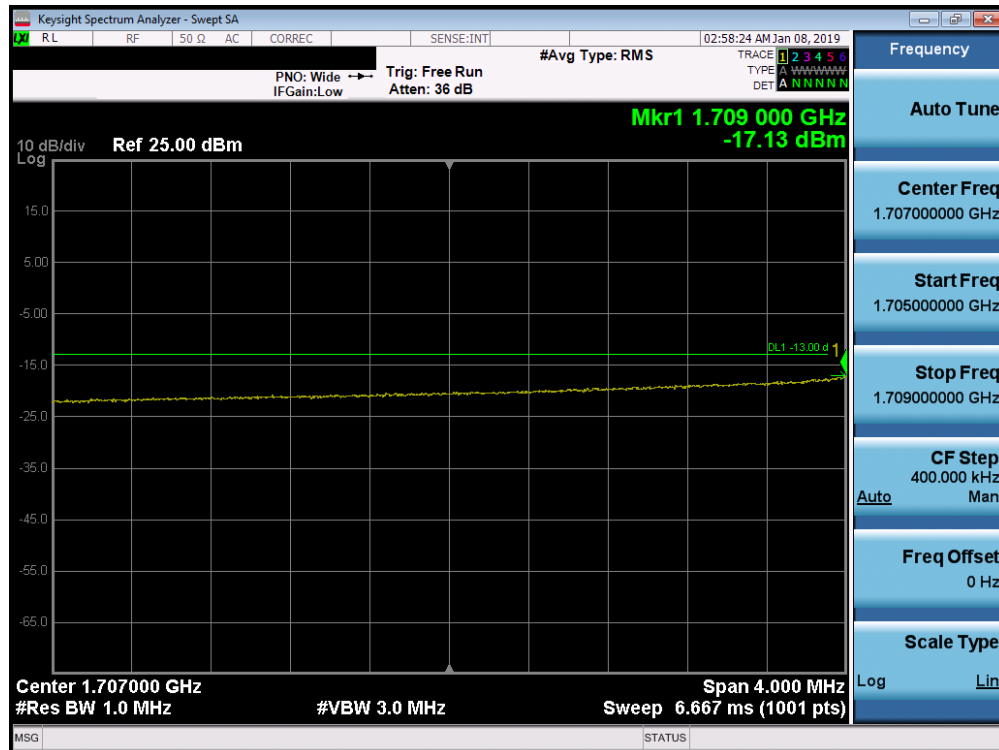


Plot 7-236. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 146 of 338

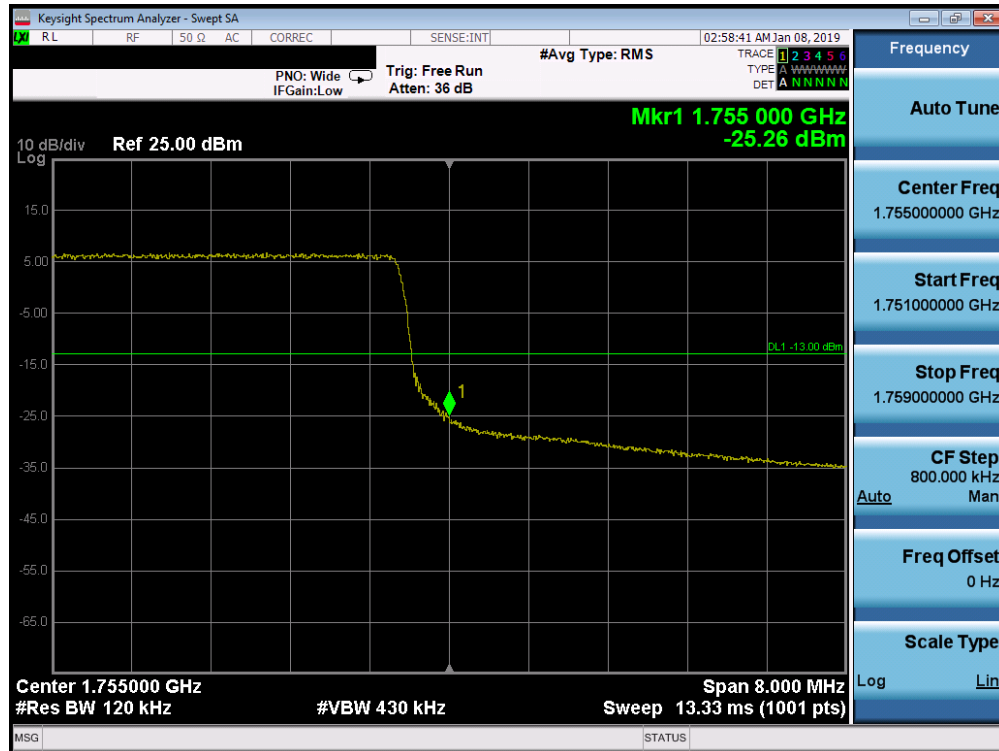


Plot 7-237. Lower Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

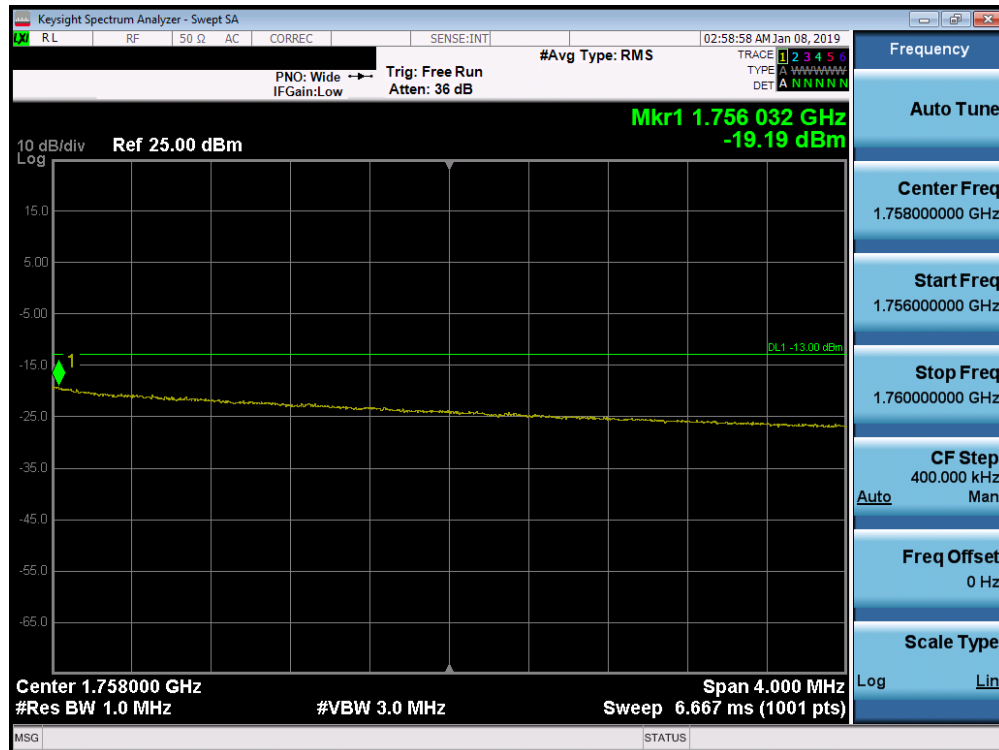


Plot 7-238. Lower Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 147 of 338

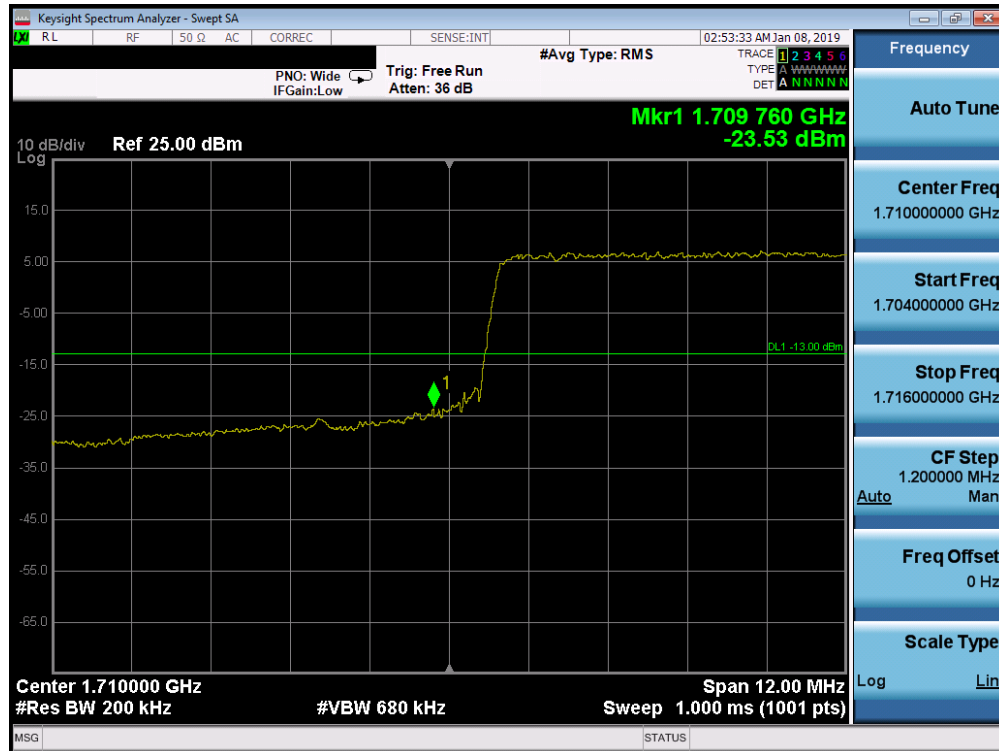


Plot 7-239. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

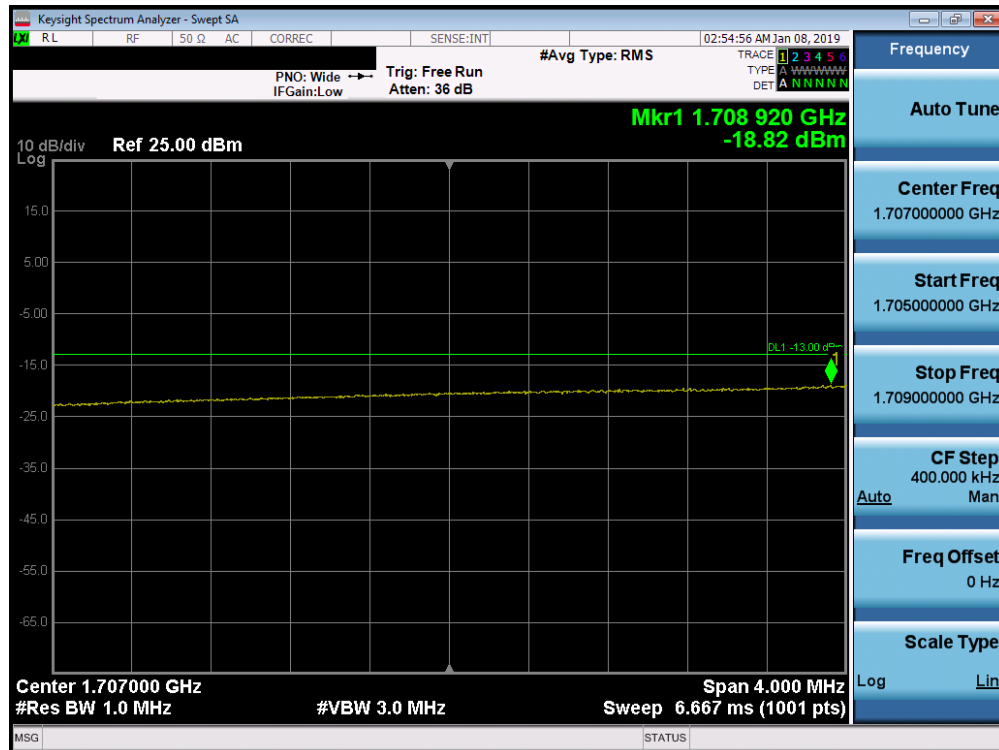


Plot 7-240. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 148 of 338

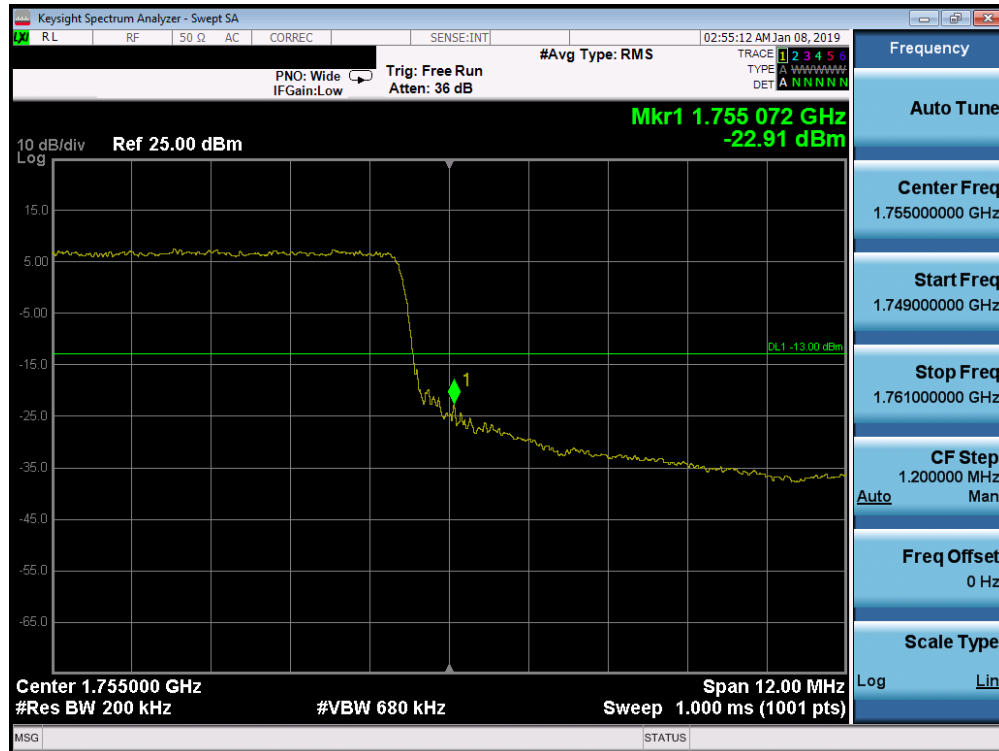


Plot 7-241. Lower Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

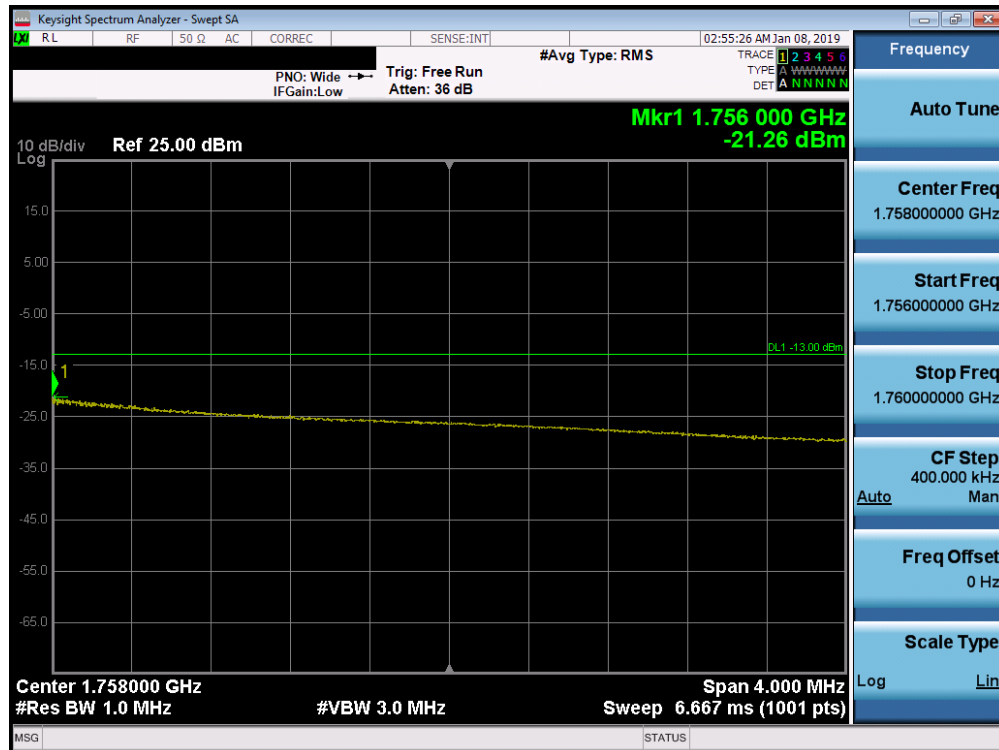


Plot 7-242. Lower Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 149 of 338

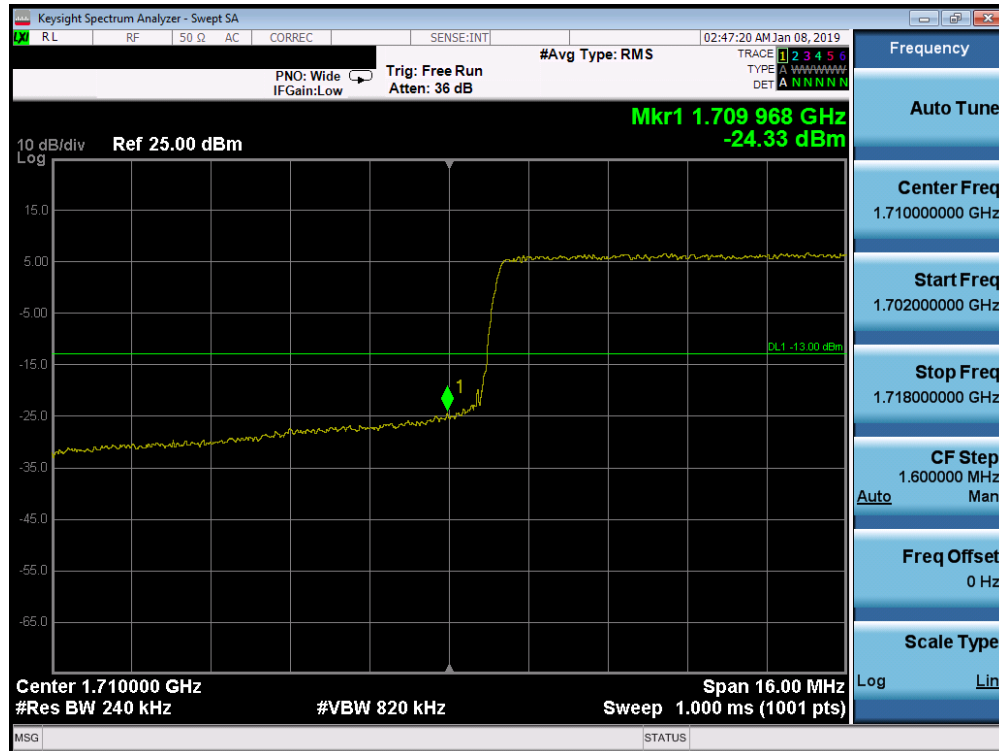


Plot 7-243. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

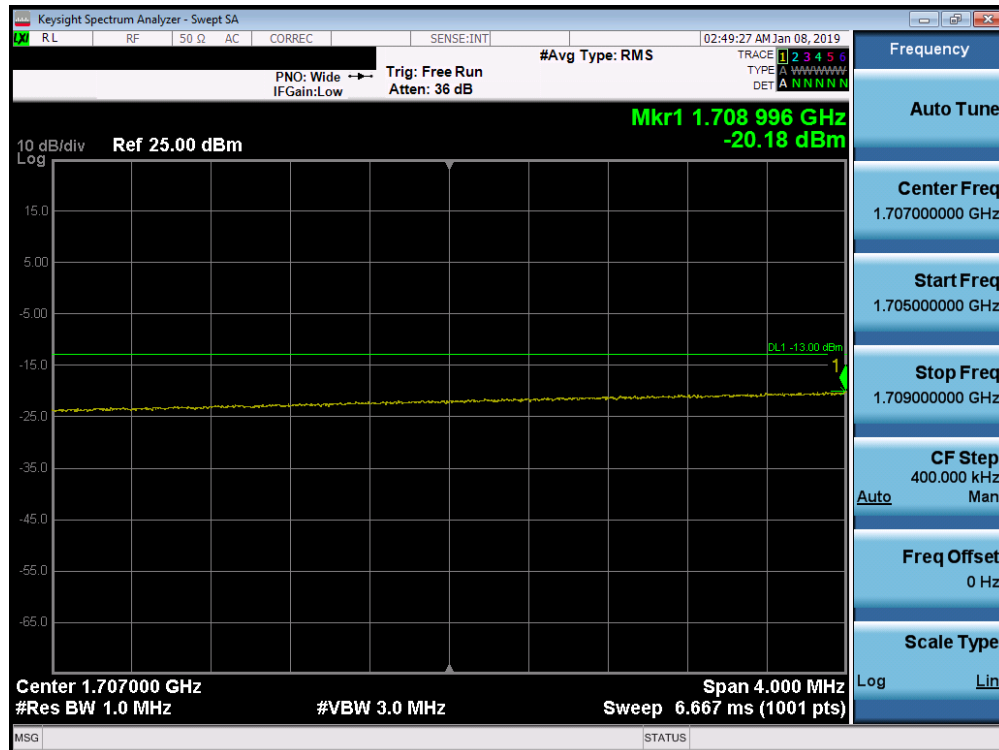


Plot 7-244. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 150 of 338



Plot 7-245. Lower Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

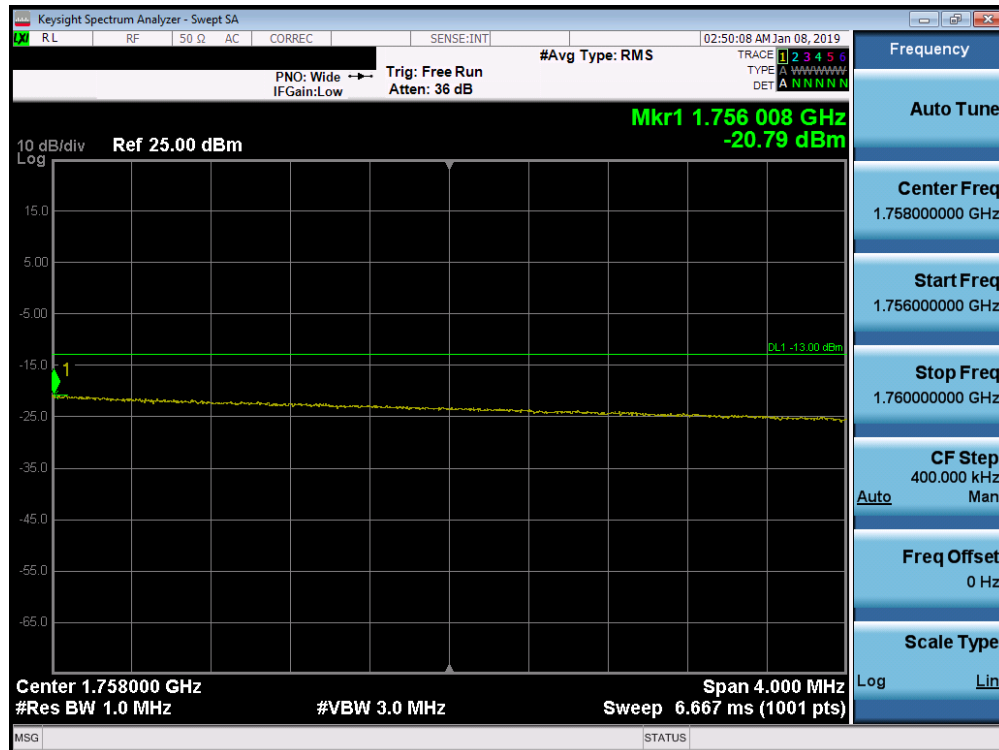


Plot 7-246. Lower Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 151 of 338



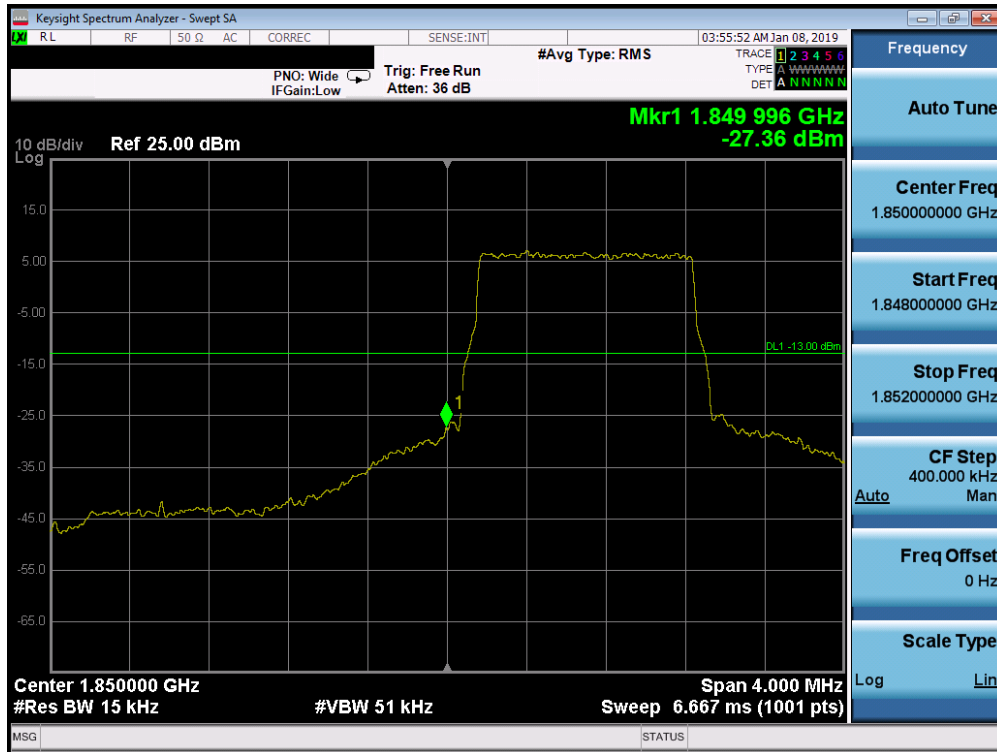
Plot 7-247. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



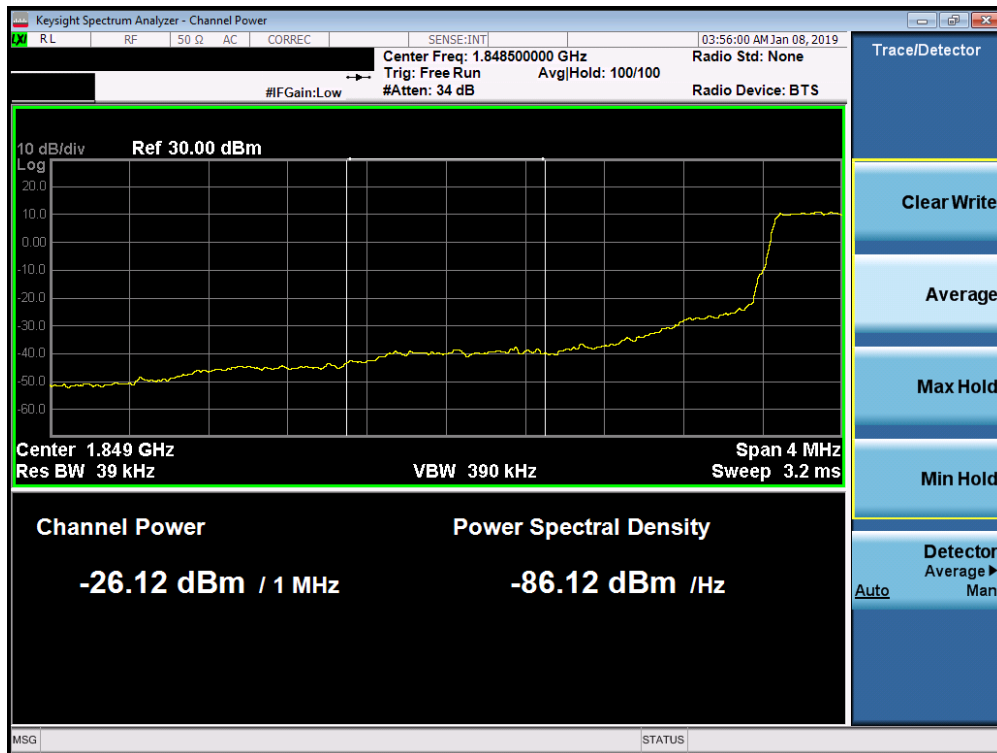
Plot 7-248. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 152 of 338

Band 25

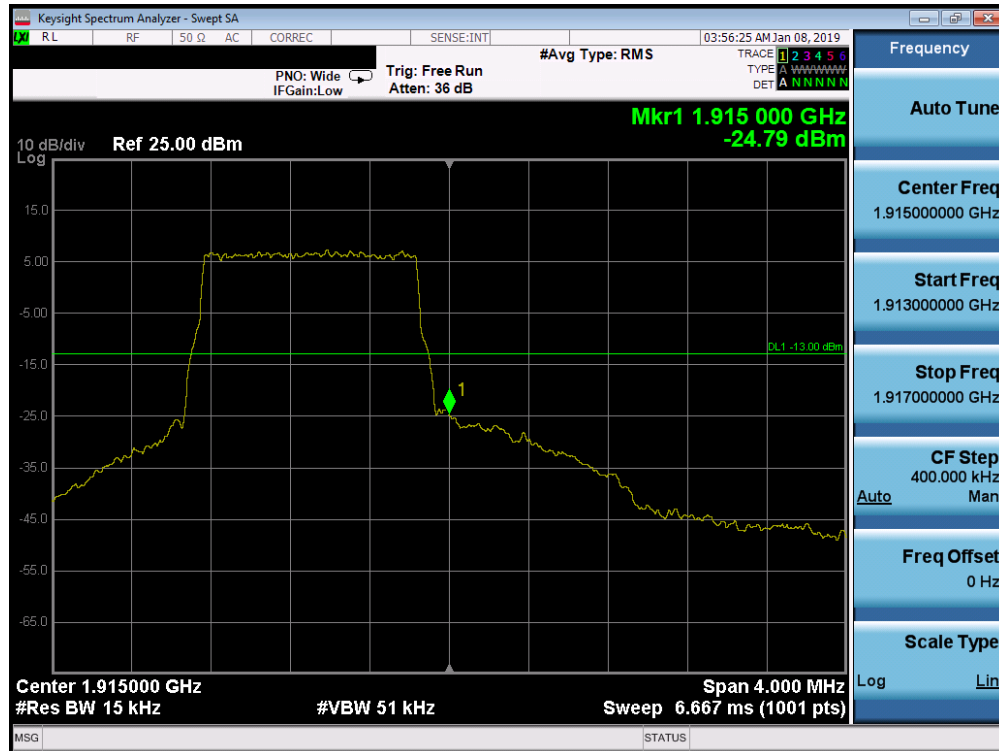


Plot 7-249. Lower Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

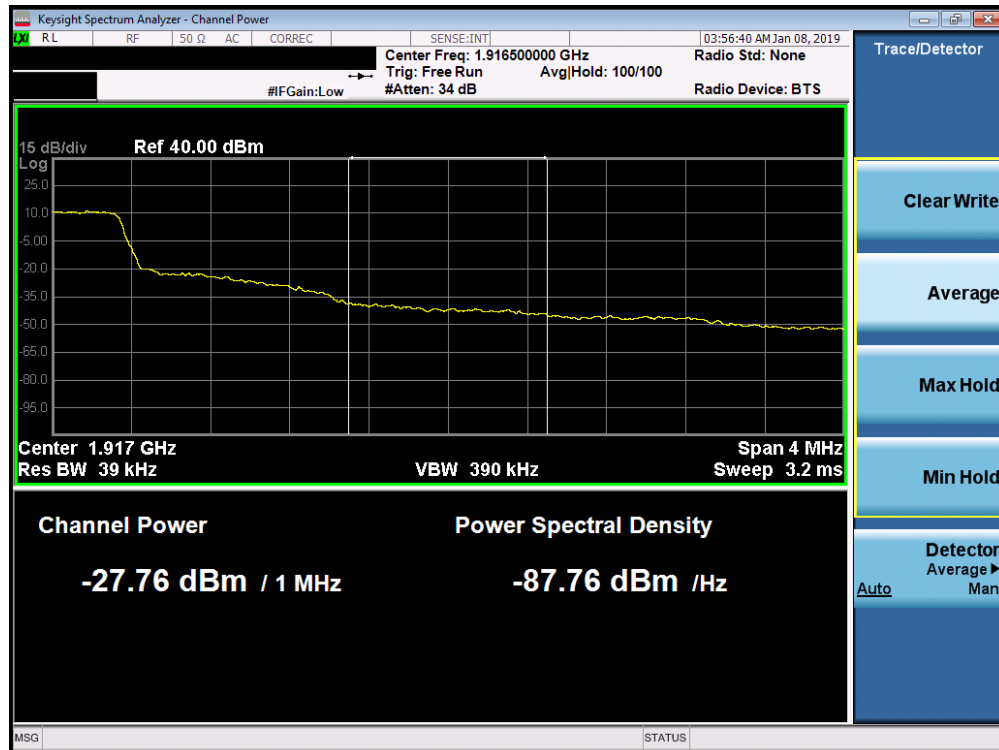


Plot 7-250. Lower Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 153 of 338

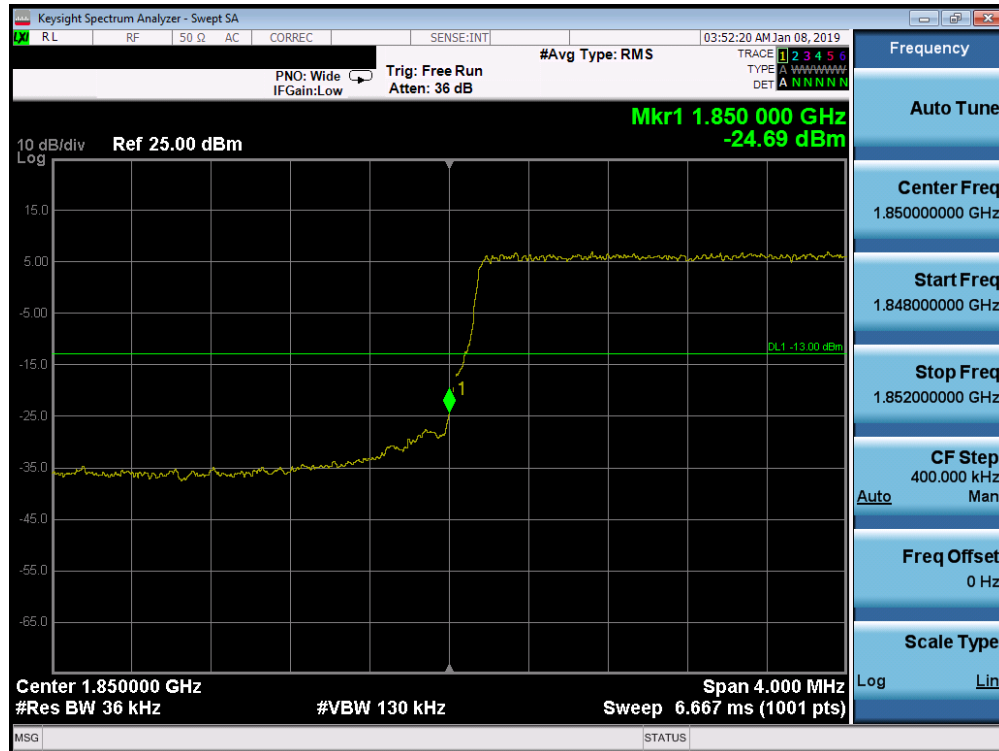


Plot 7-251. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

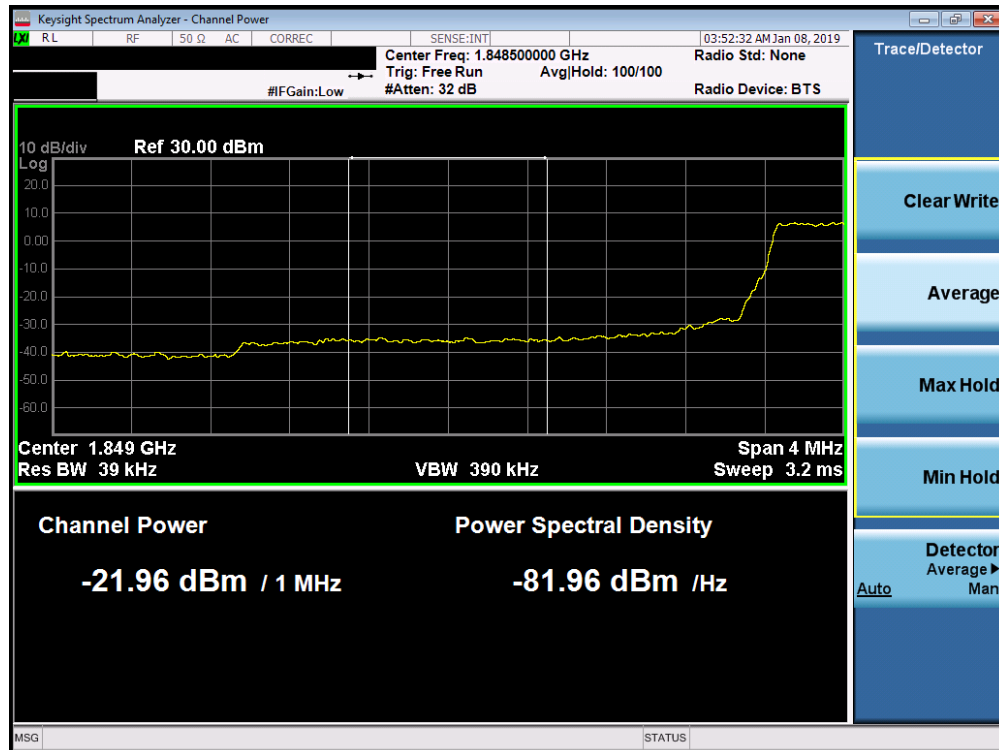


Plot 7-252. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 154 of 338



Plot 7-253. Lower Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

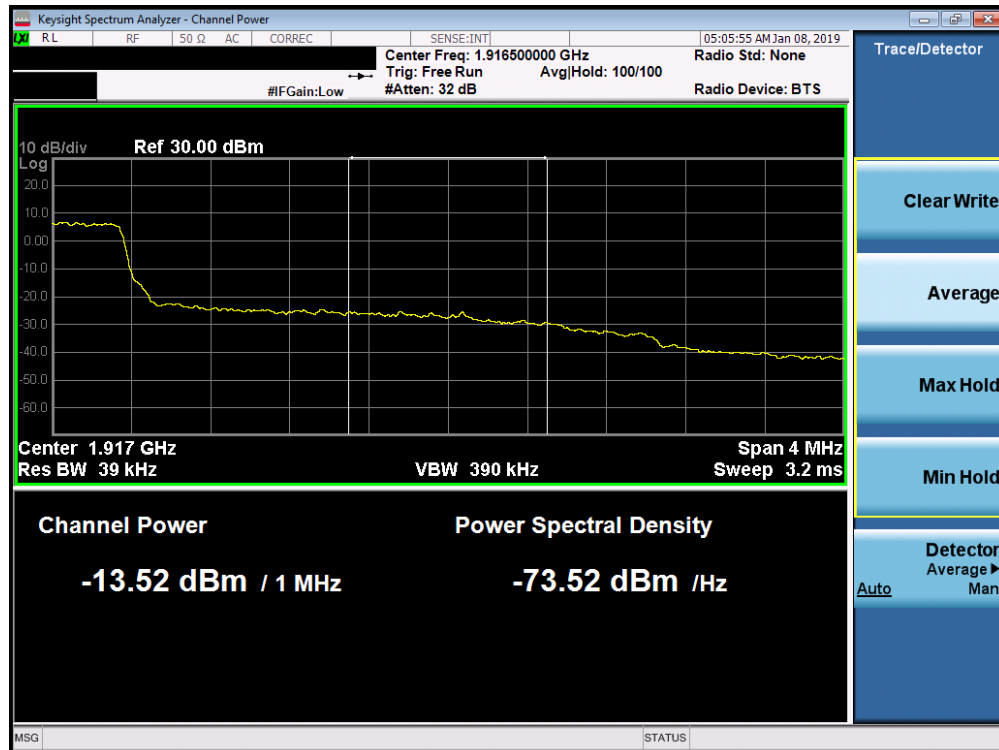


Plot 7-254. Lower Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 155 of 338

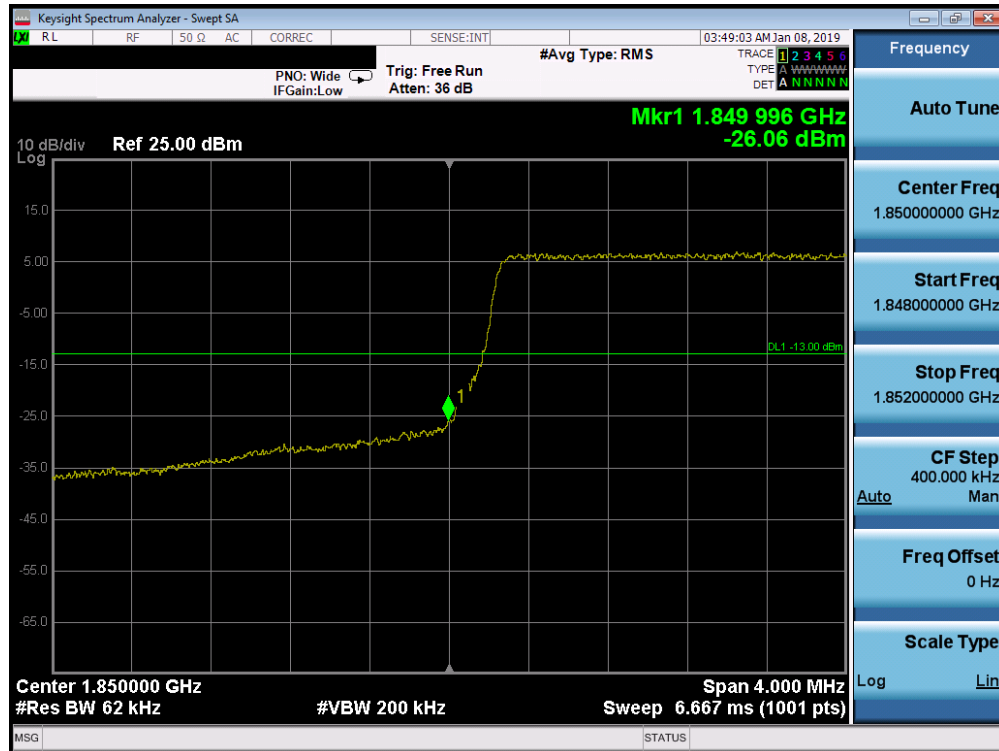


Plot 7-255. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

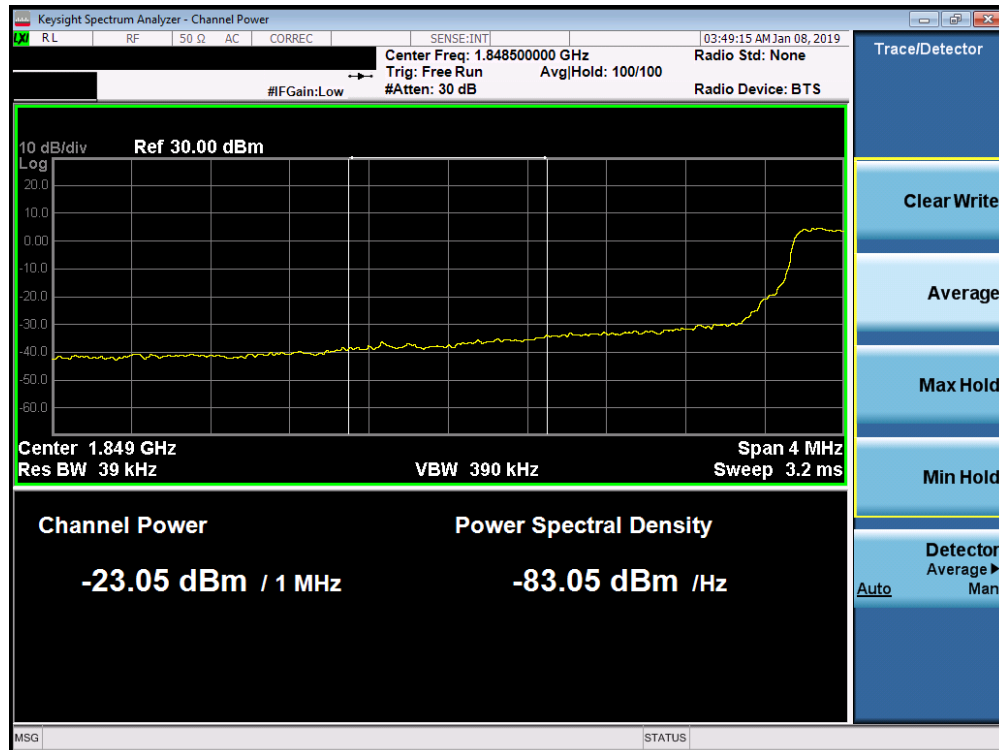


Plot 7-256. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 156 of 338

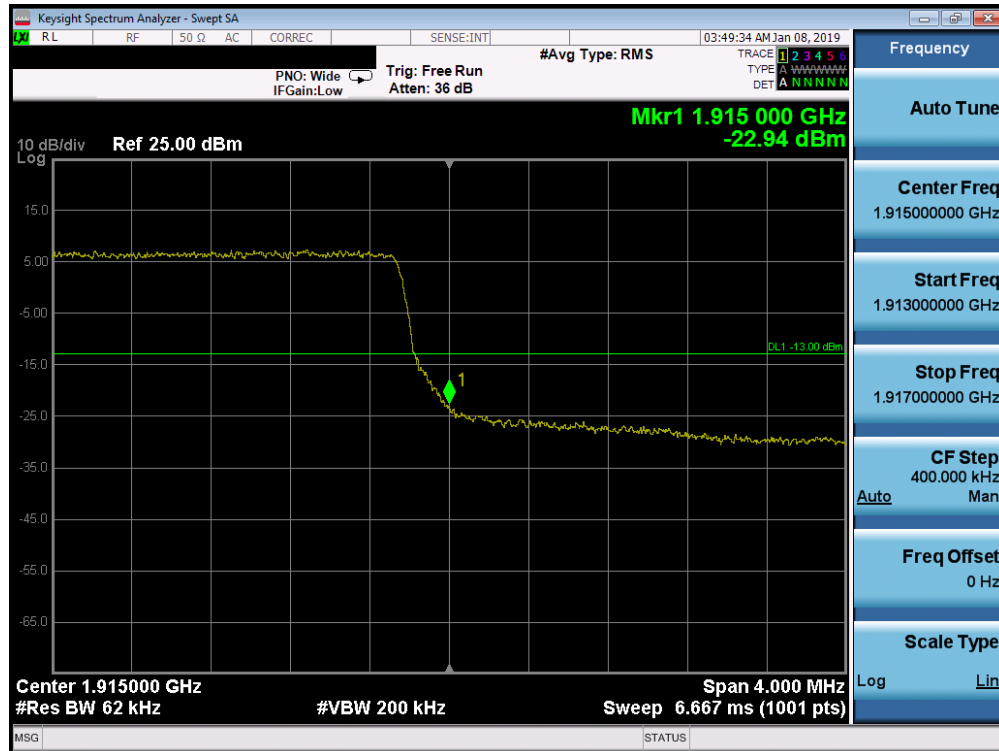


Plot 7-257. Lower Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

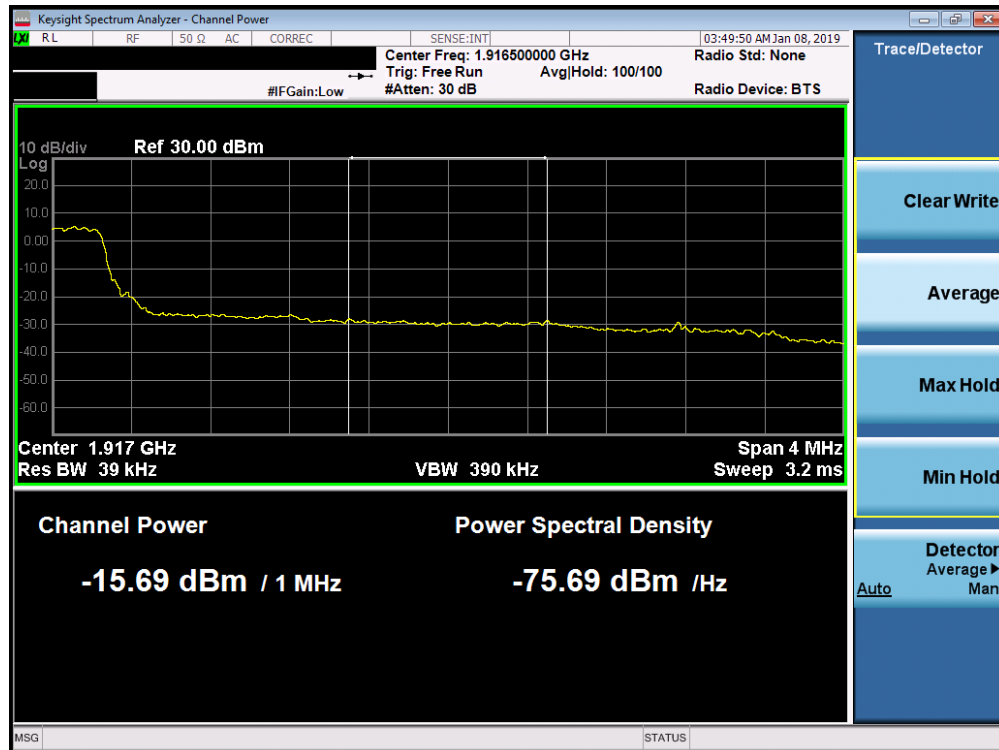


Plot 7-258. Lower Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 157 of 338

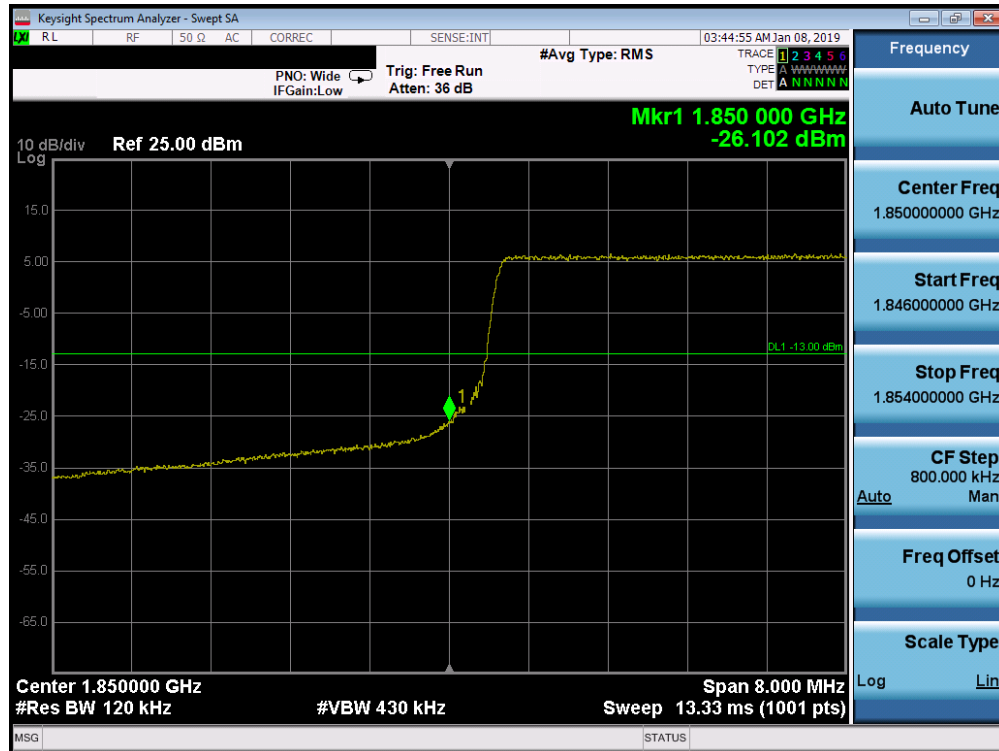


Plot 7-259. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

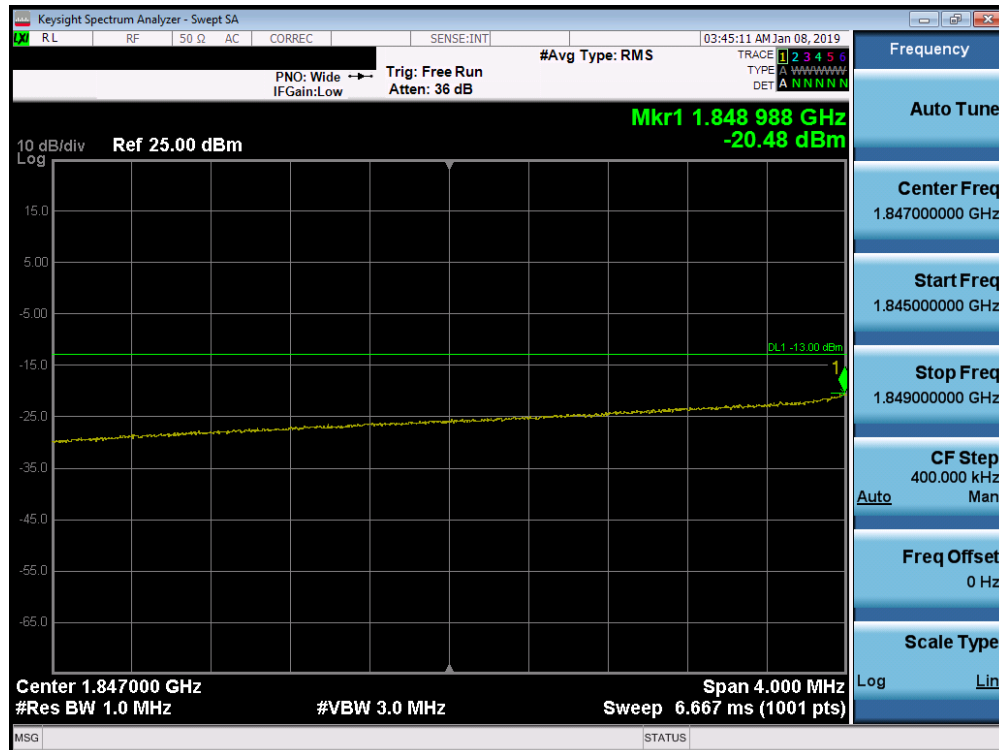


Plot 7-260. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 158 of 338



Plot 7-261. Lower Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

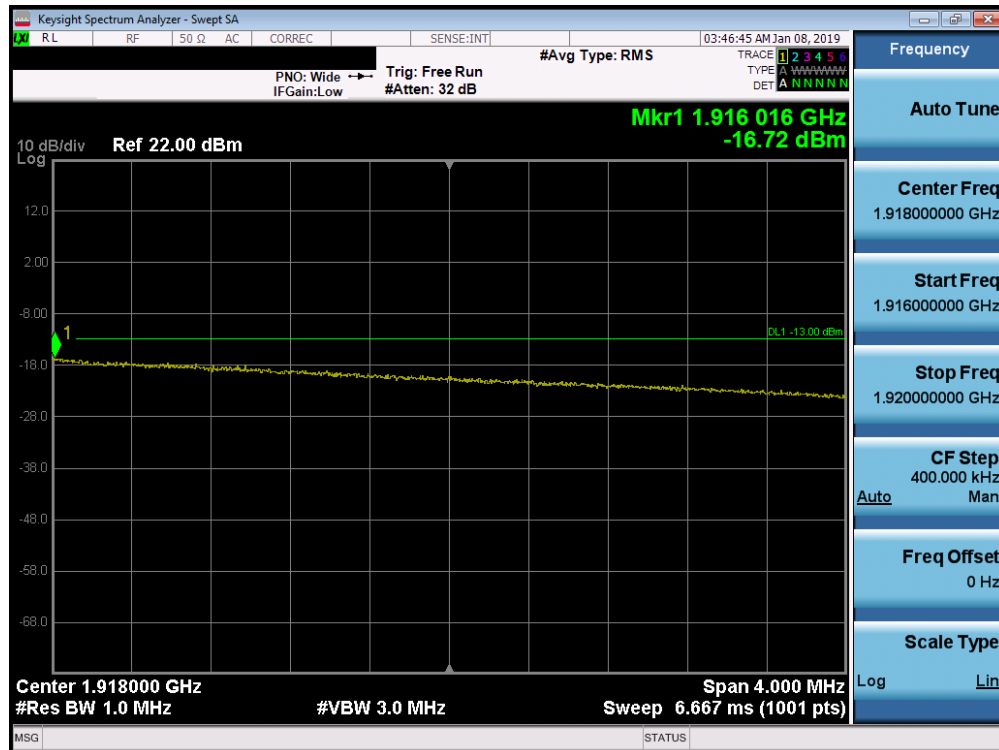


Plot 7-262. Lower Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 159 of 338

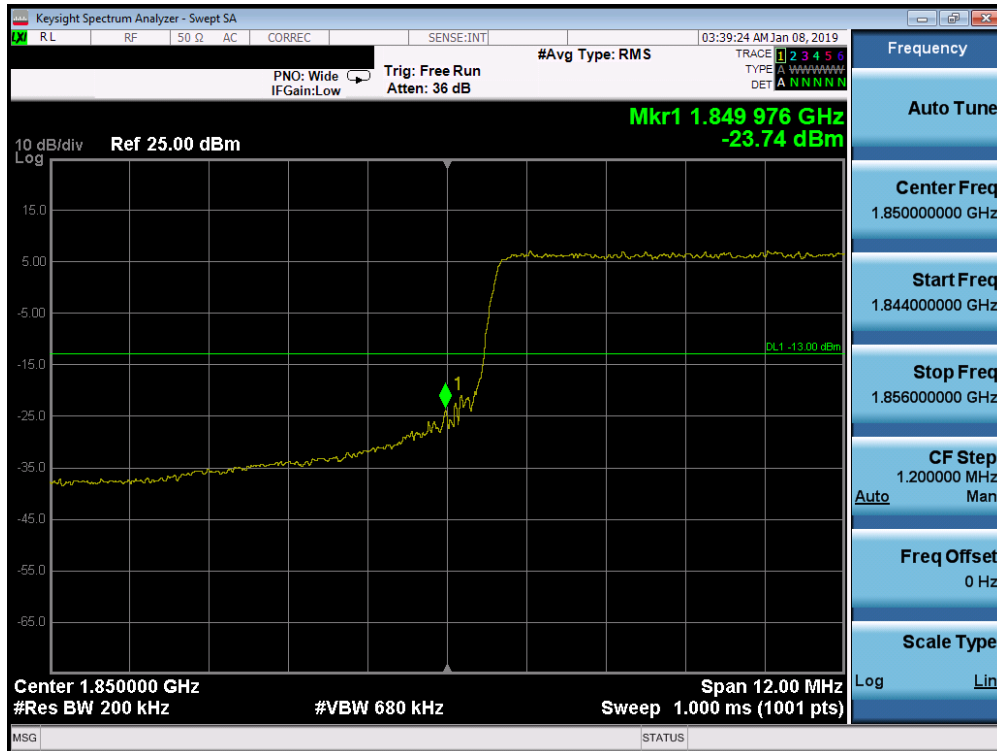


Plot 7-263. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

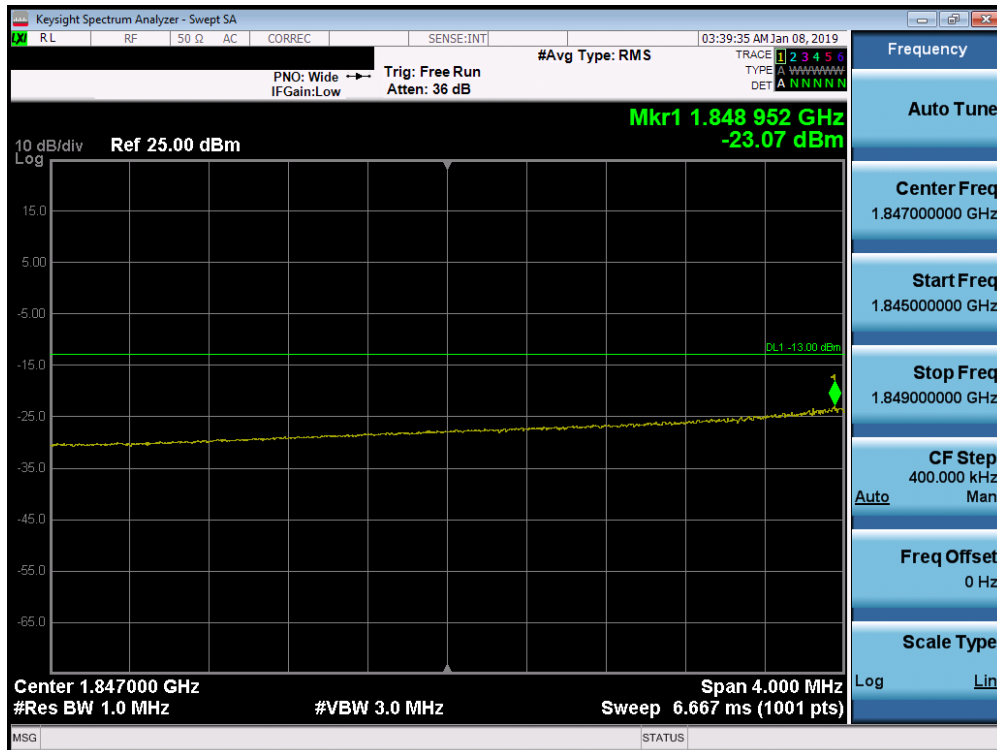


Plot 7-264. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 160 of 338



Plot 7-265. Lower Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

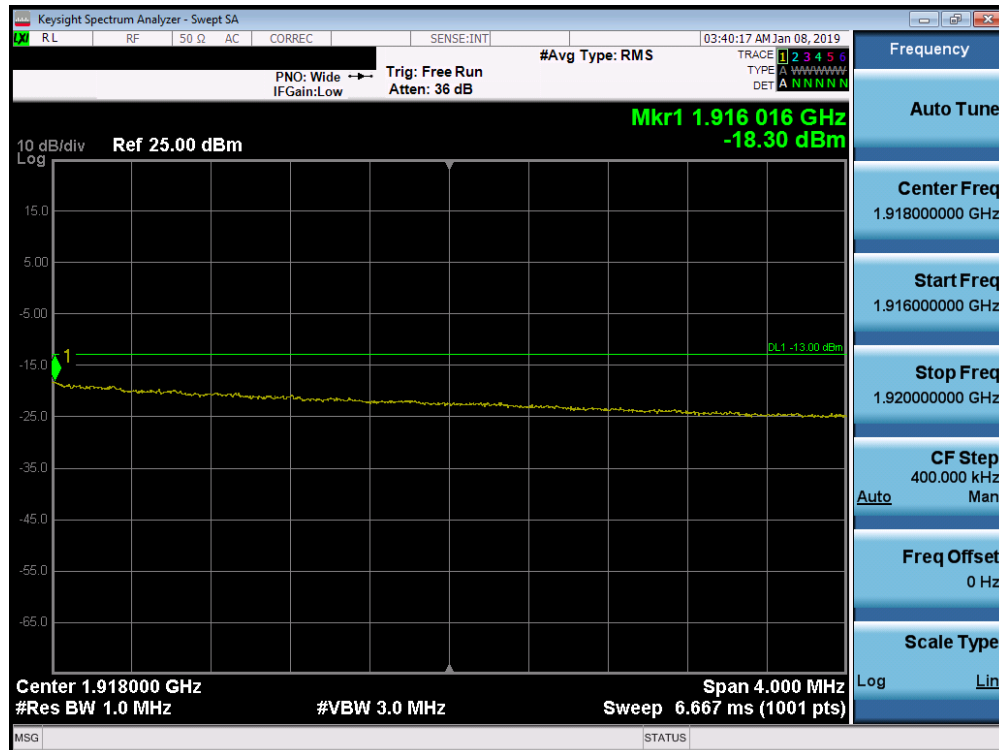


Plot 7-266. Lower Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 161 of 338

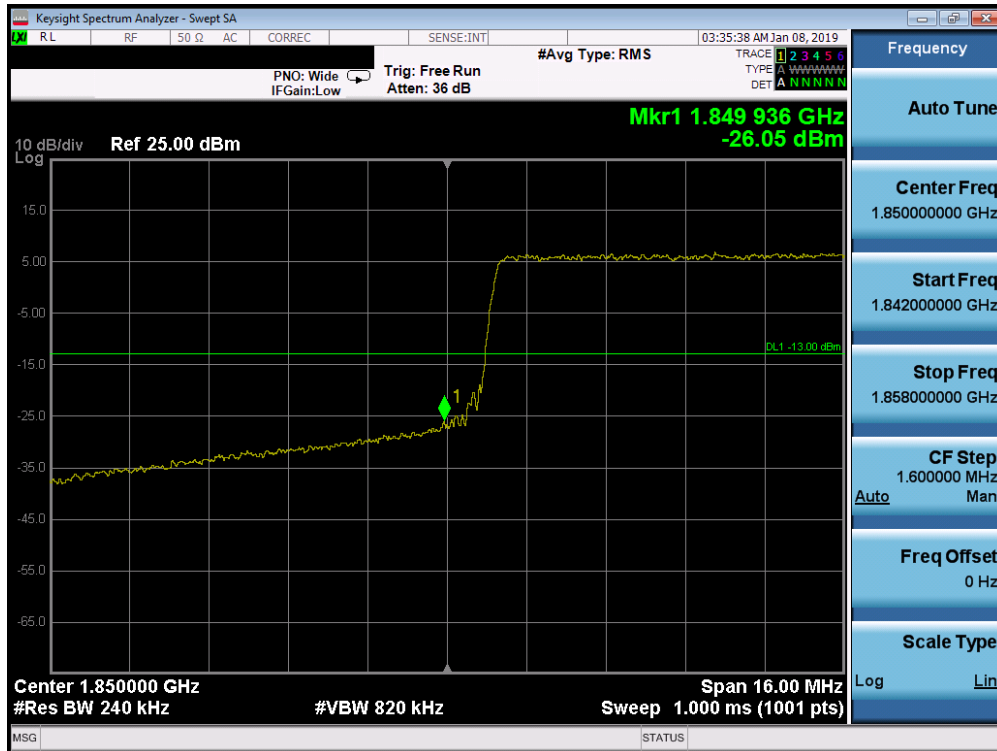


Plot 7-267. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

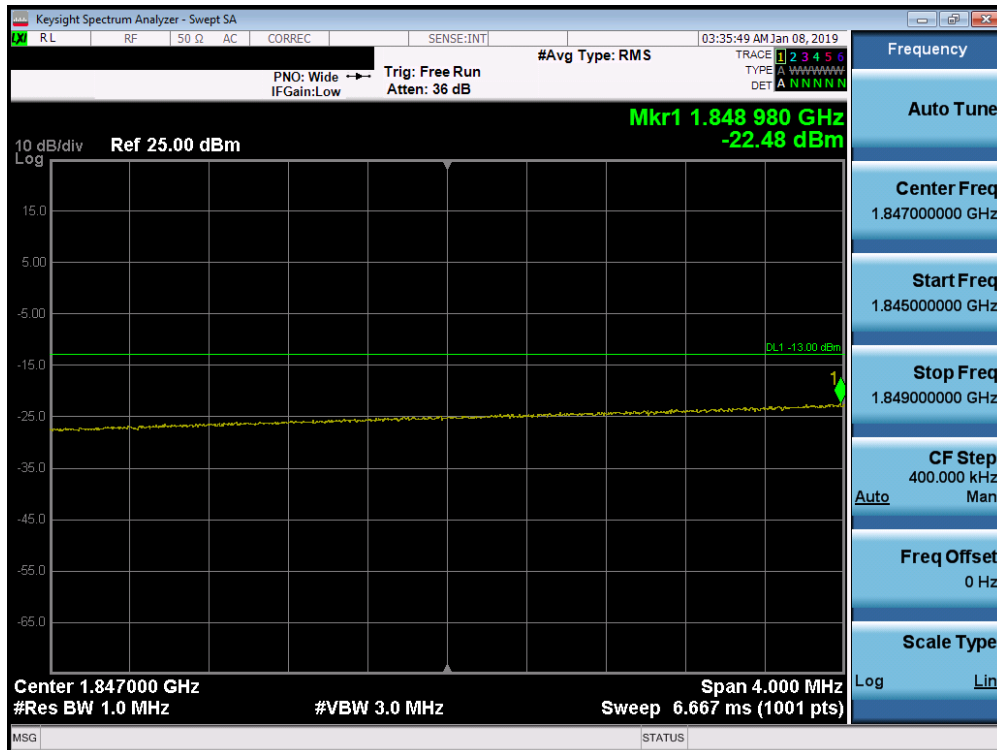


Plot 7-268. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 162 of 338



Plot 7-269. Lower Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

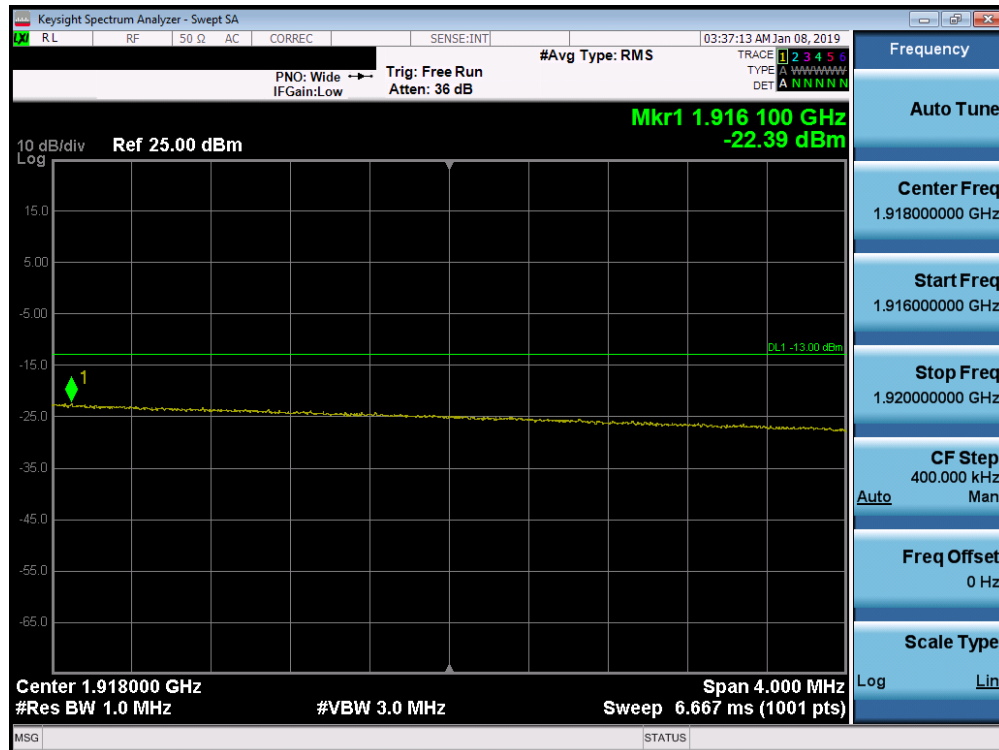


Plot 7-270. Lower Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 163 of 338



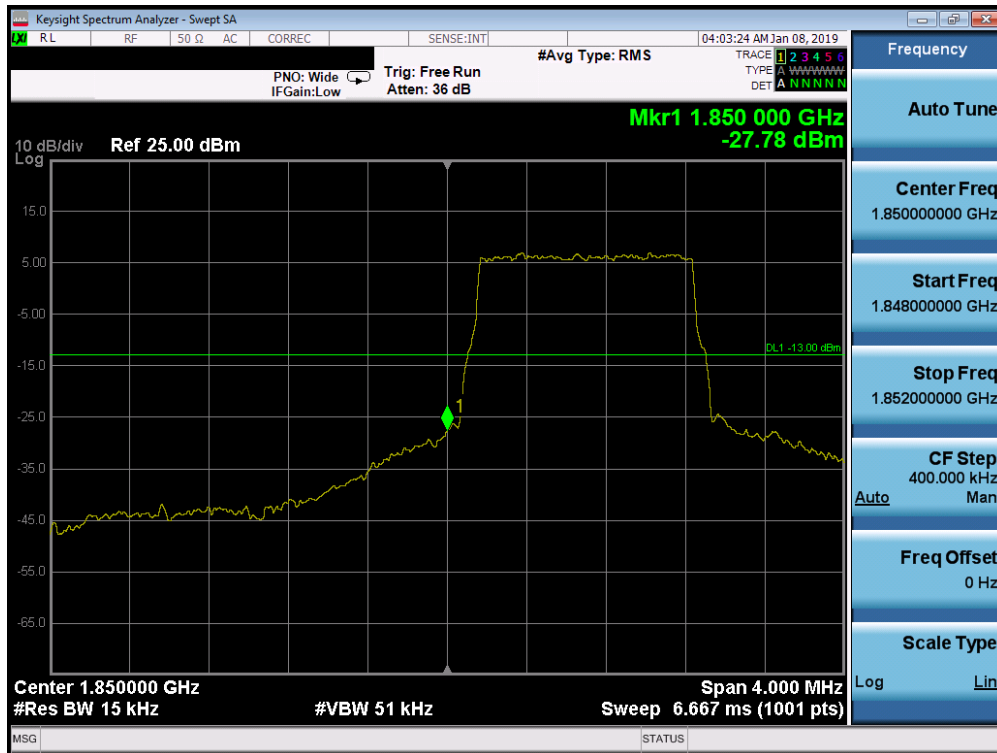
Plot 7-271. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



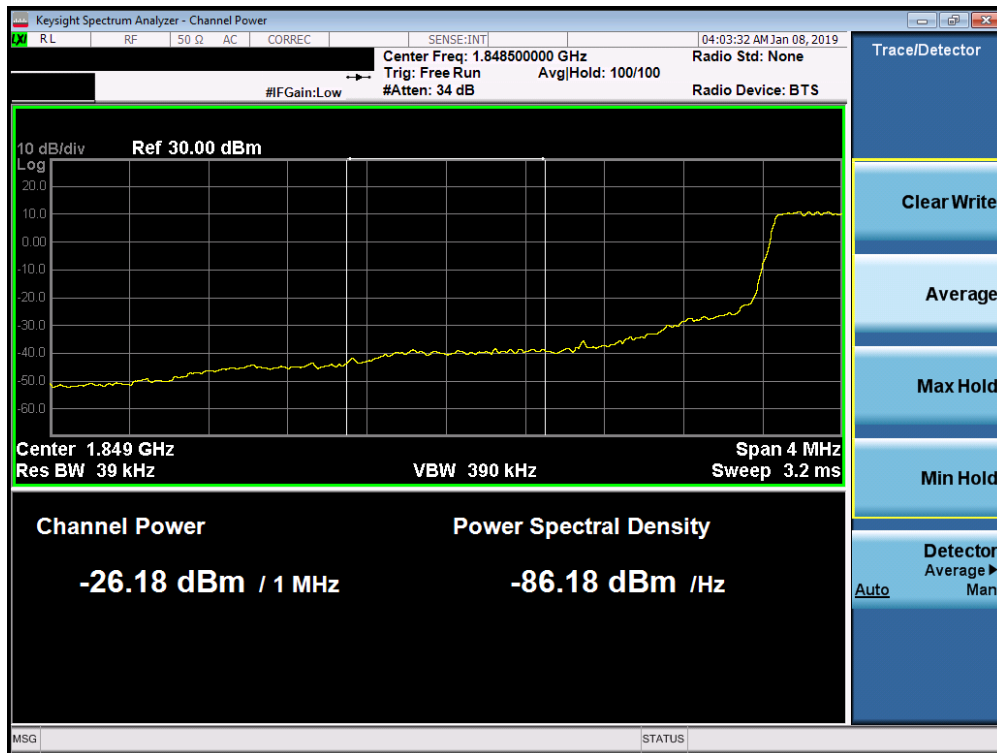
Plot 7-272. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 164 of 338

Band 2



Plot 7-273. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

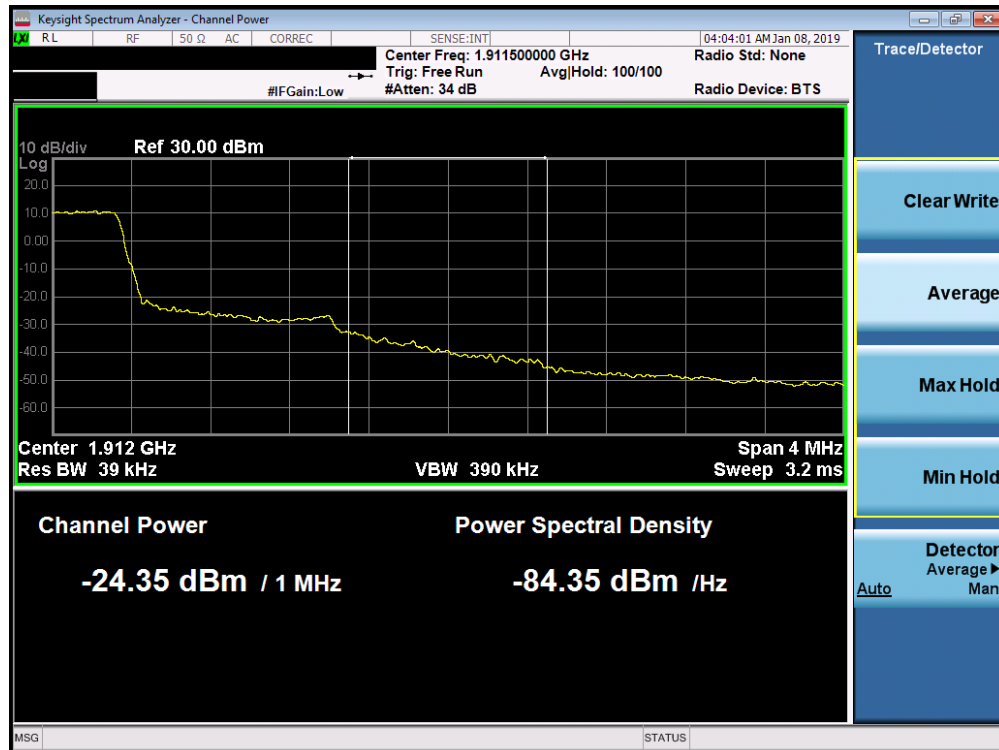


Plot 7-274. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 165 of 338

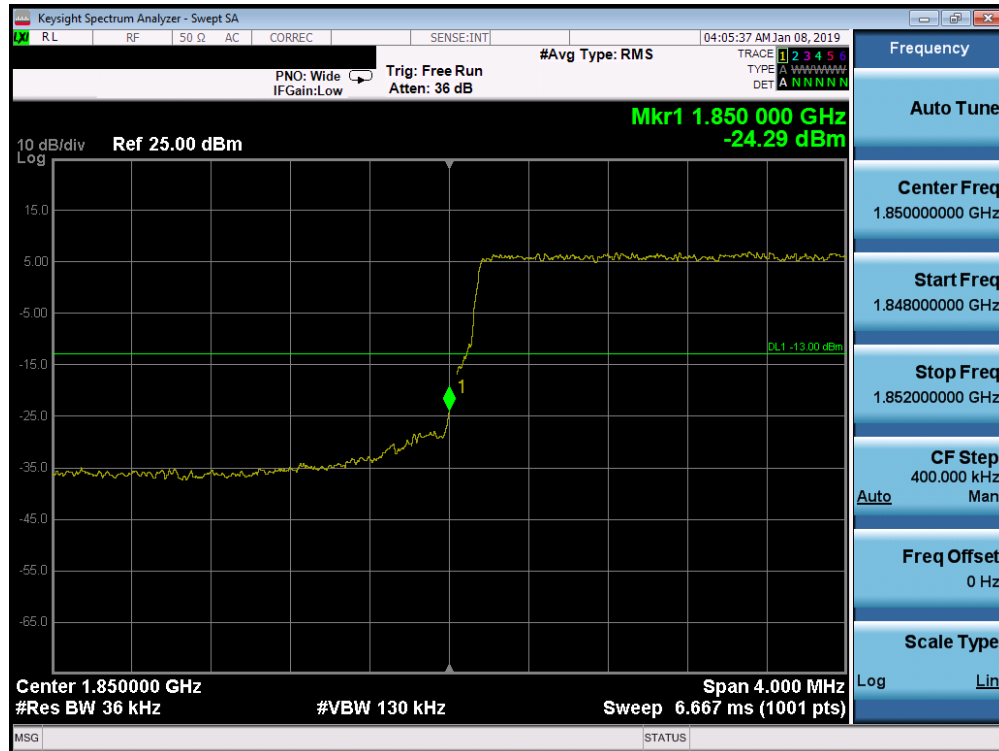


Plot 7-275. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

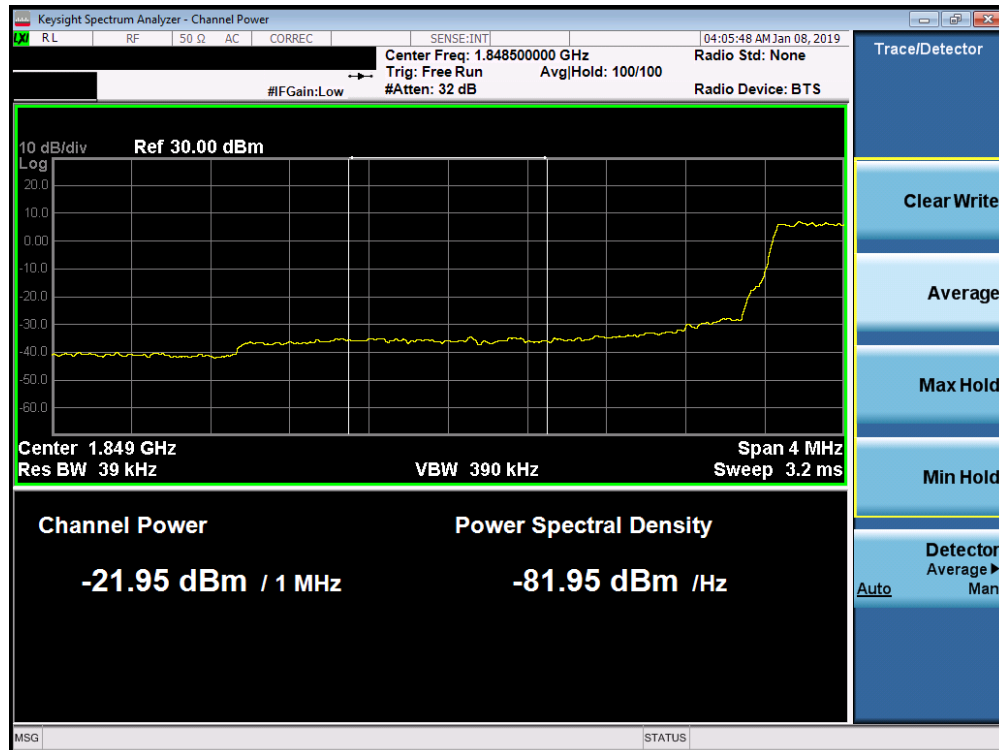


Plot 7-276. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 166 of 338

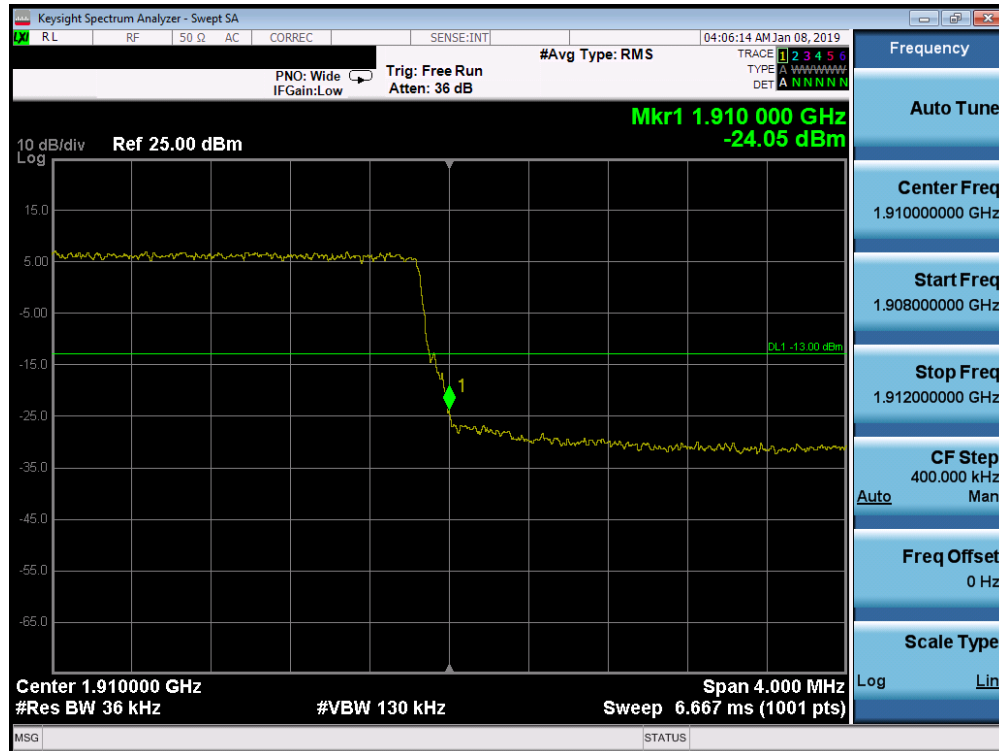


Plot 7-277. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

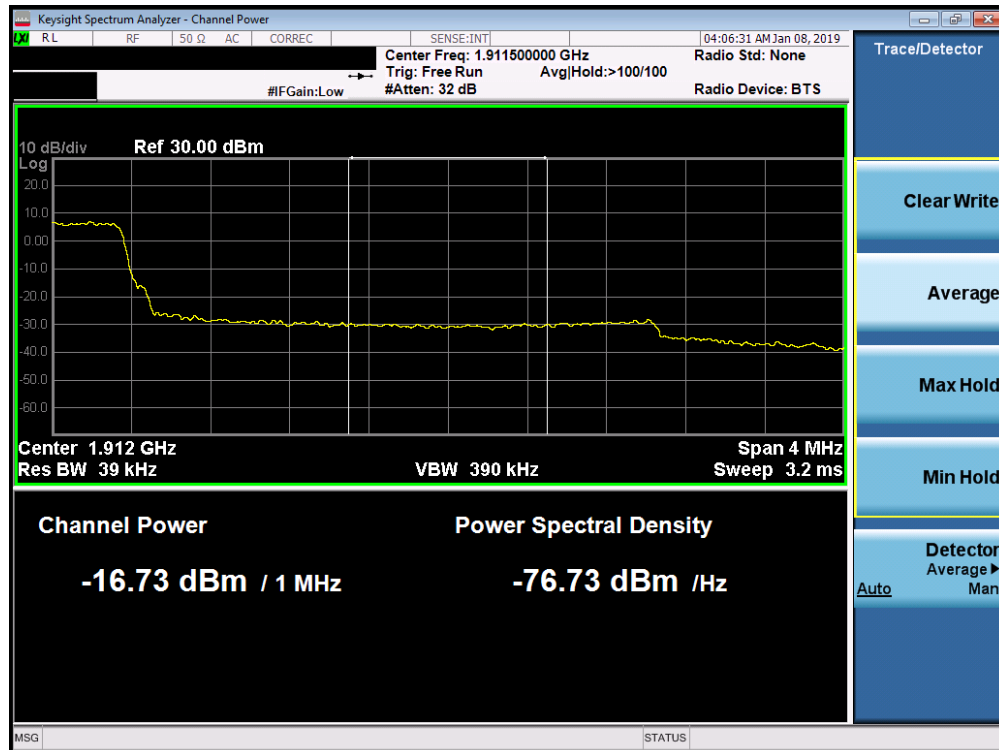


Plot 7-278. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 167 of 338

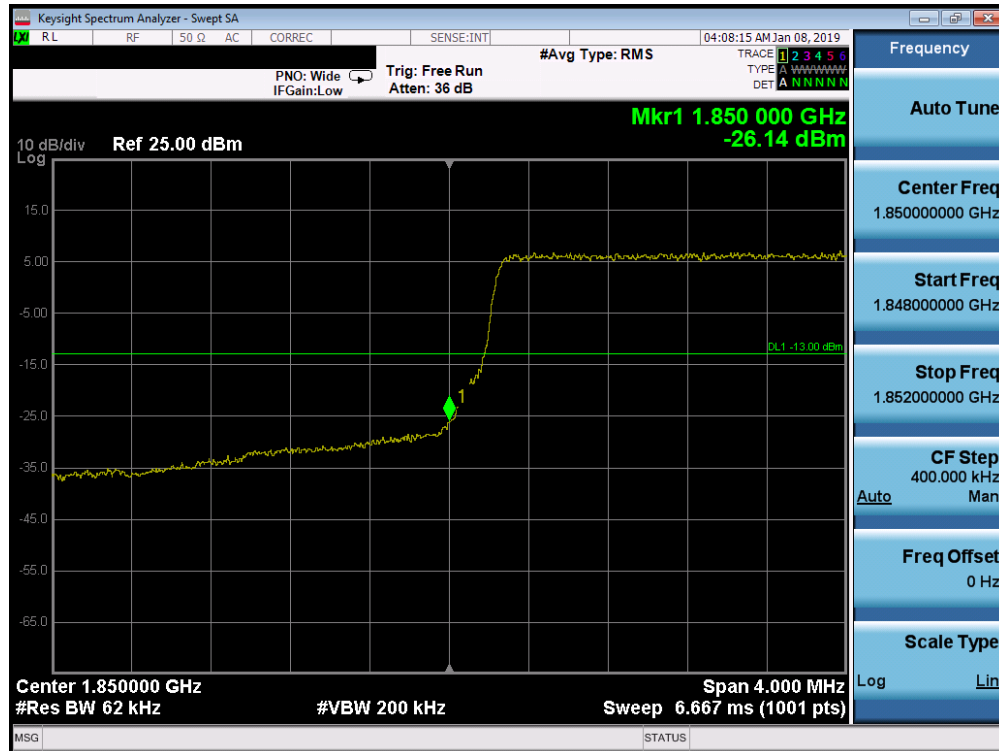


Plot 7-279. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

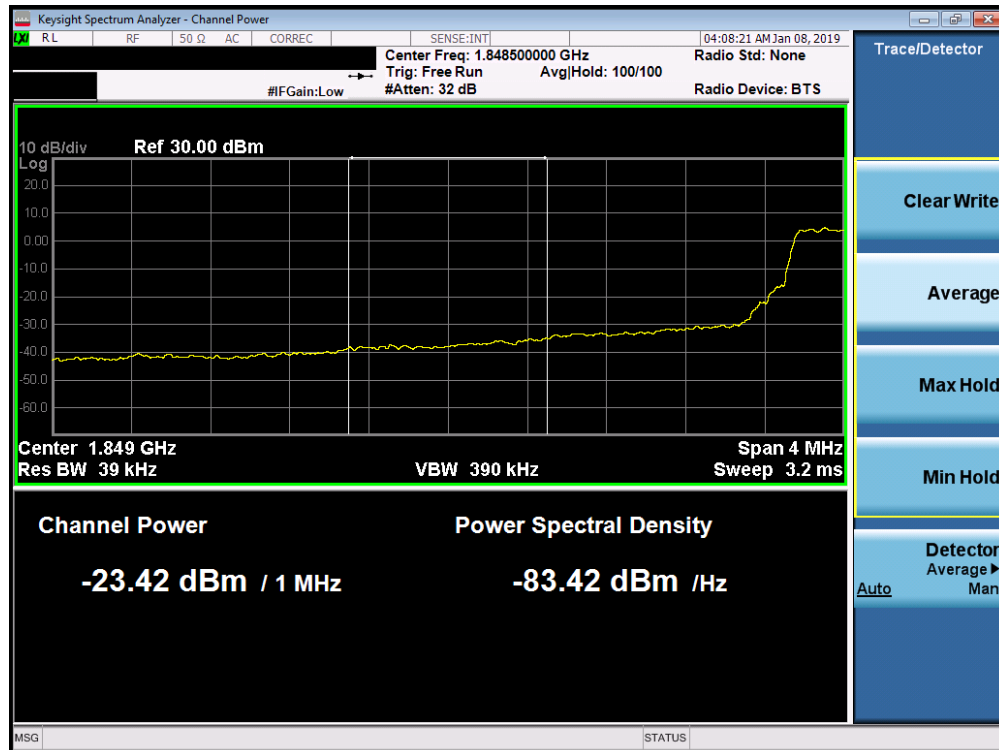


Plot 7-280. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 168 of 338

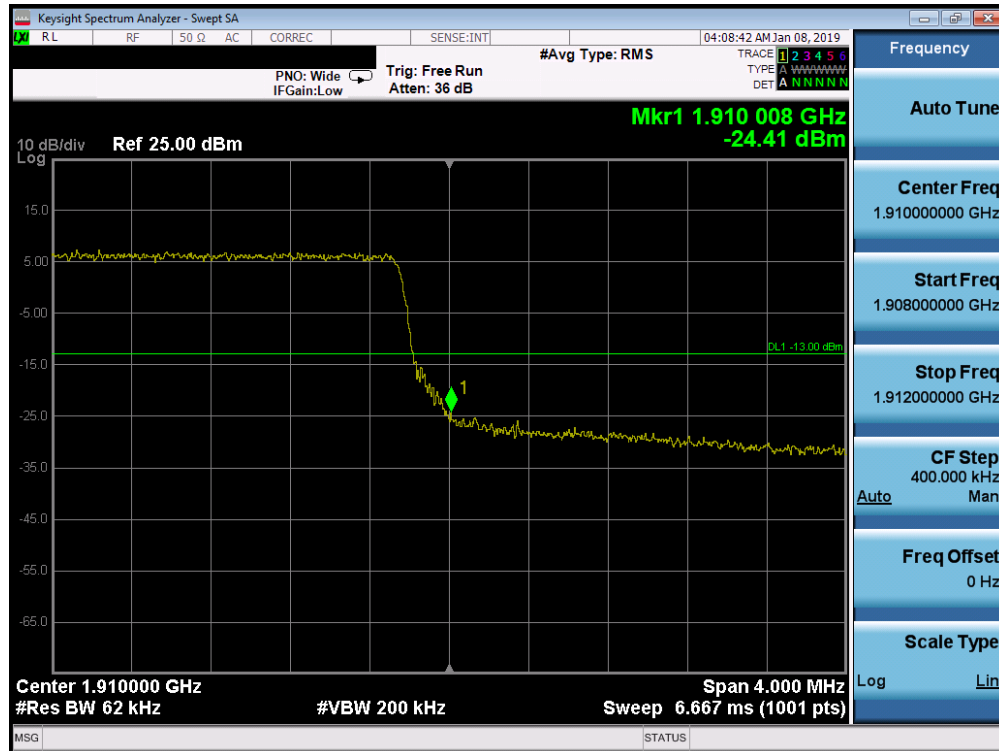


Plot 7-281. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

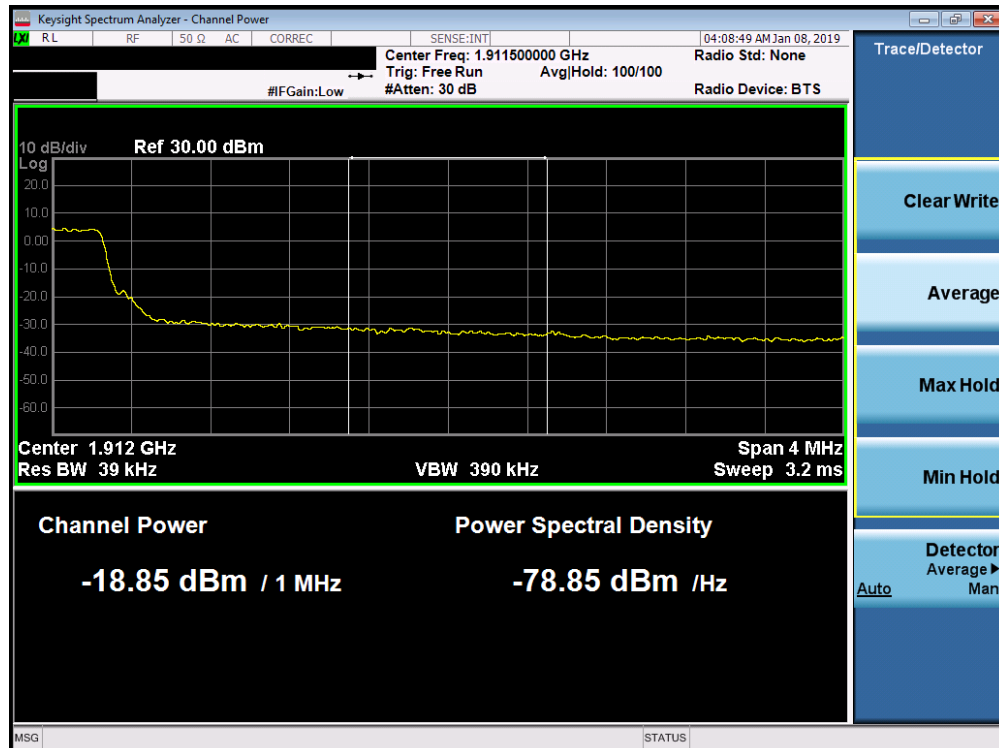


Plot 7-282. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 169 of 338

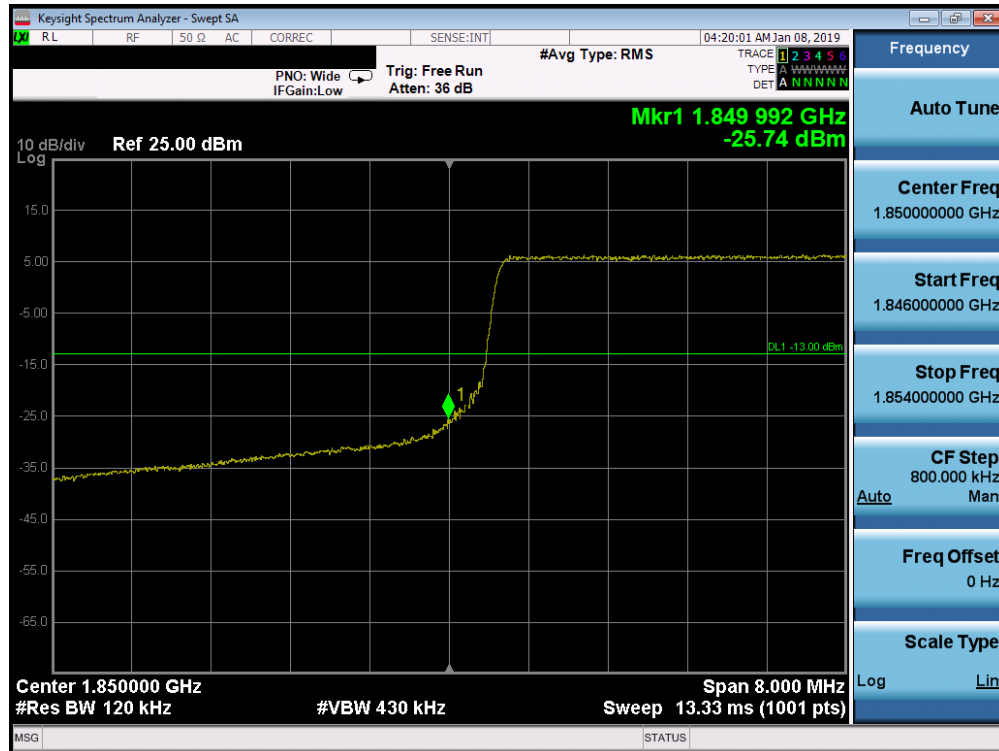


Plot 7-283. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

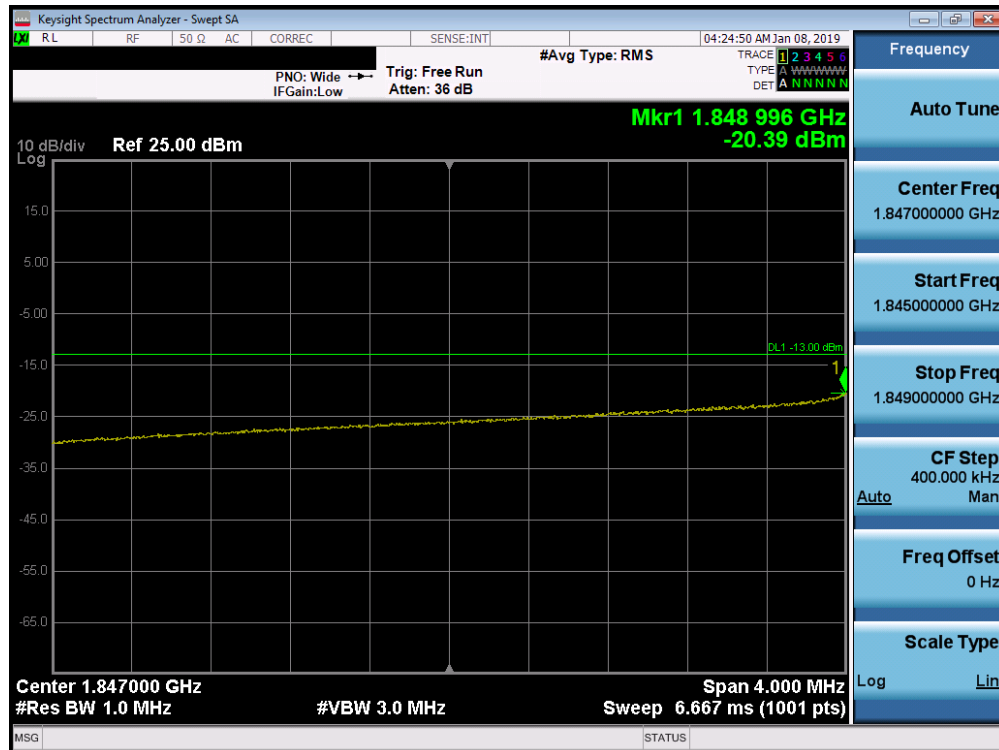


Plot 7-284. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 170 of 338

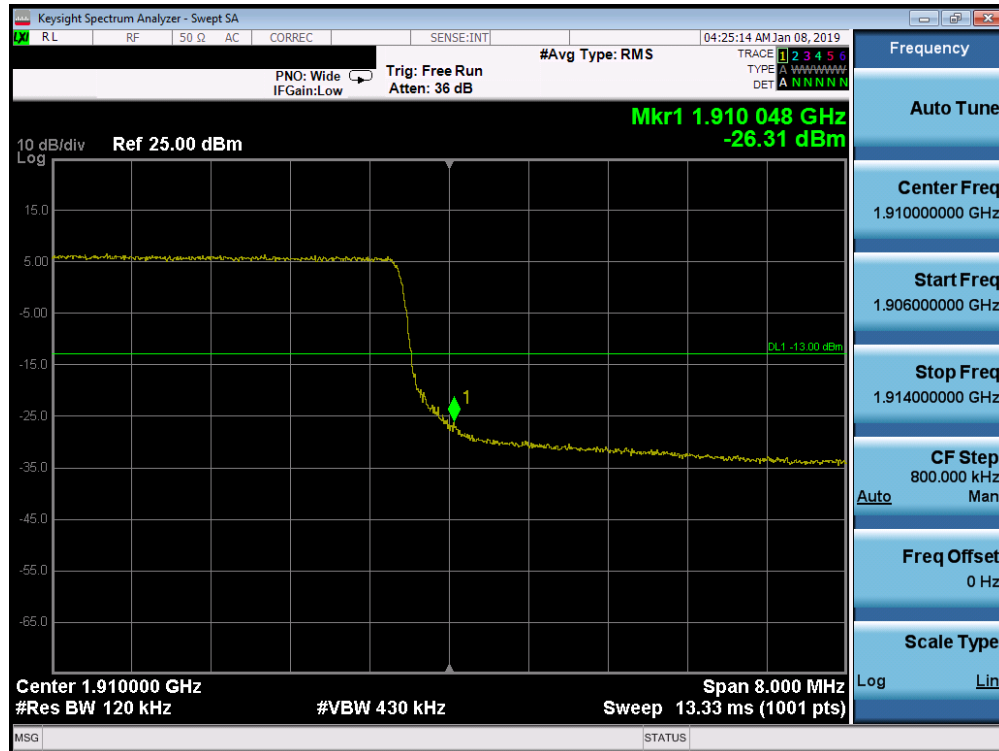


Plot 7-285. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

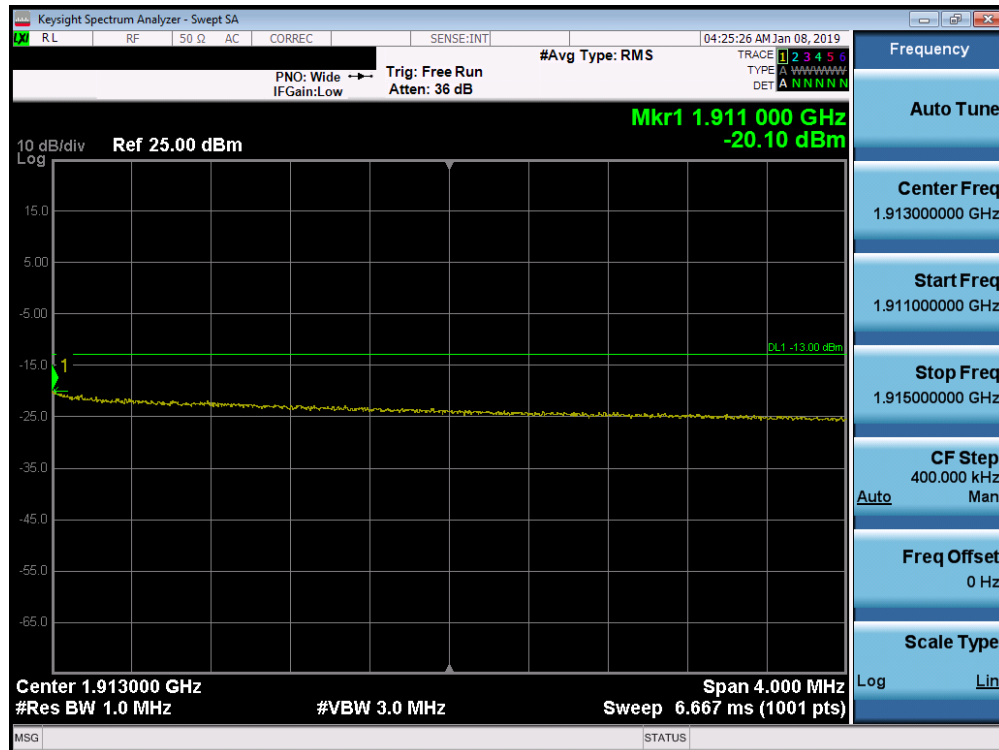


Plot 7-286. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 171 of 338

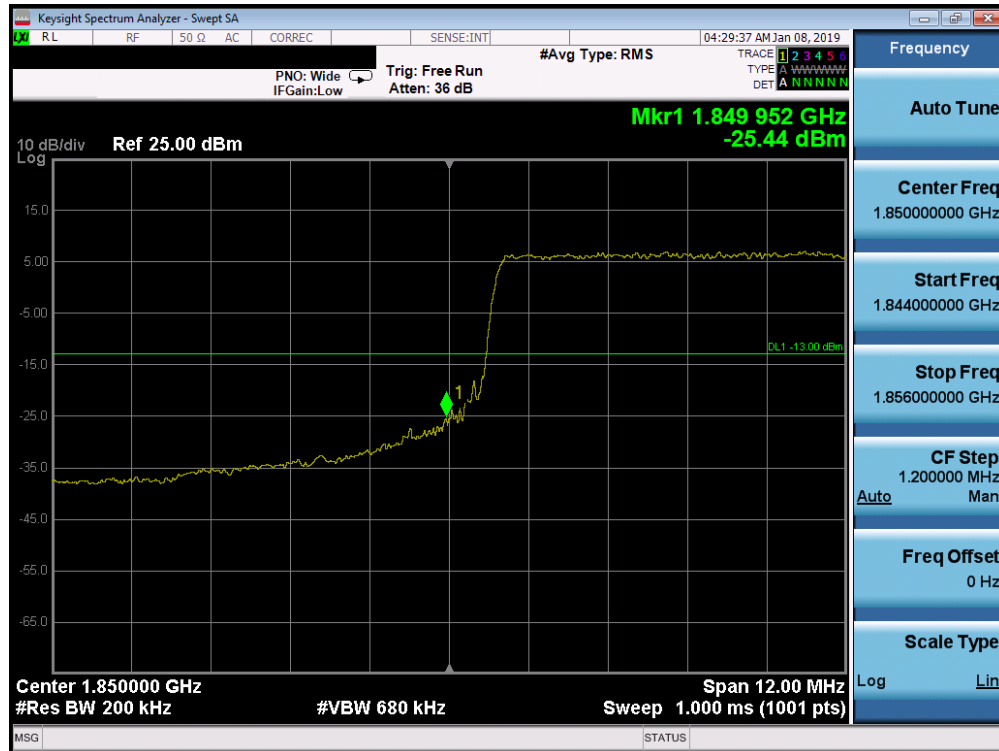


Plot 7-287. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

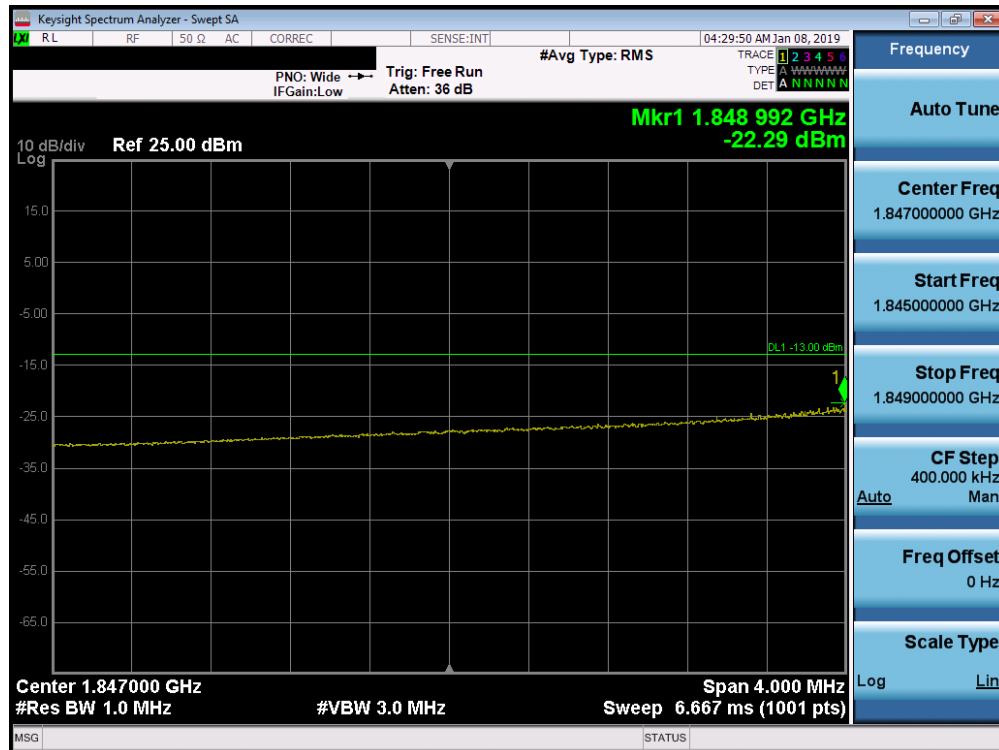


Plot 7-288. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 172 of 338



Plot 7-289. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

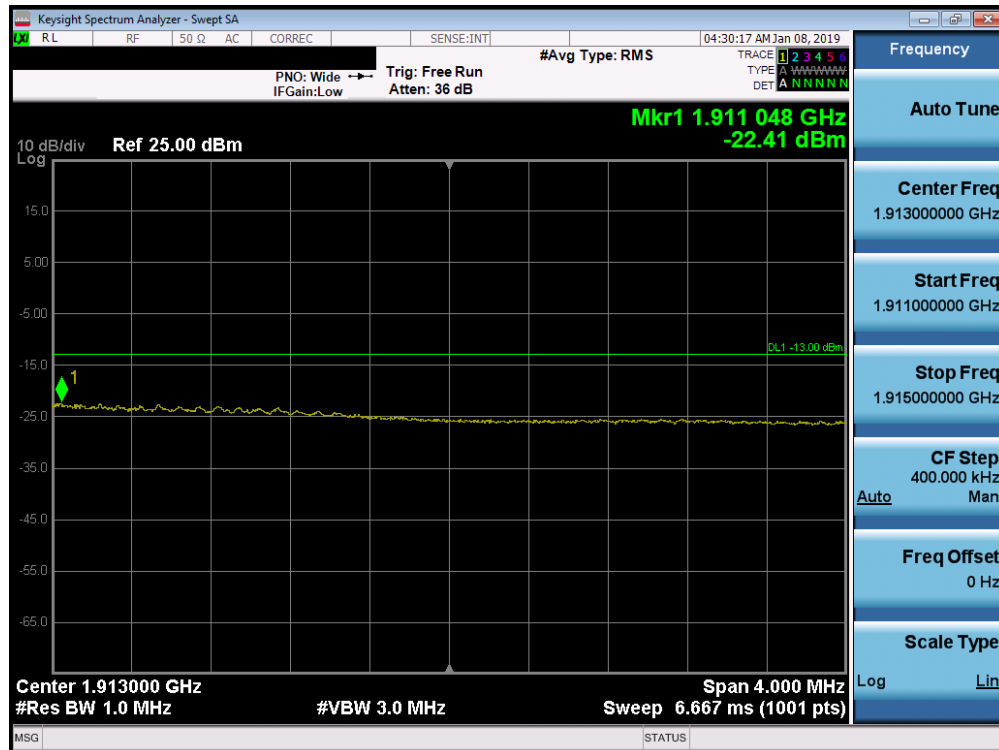


Plot 7-290. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 173 of 338

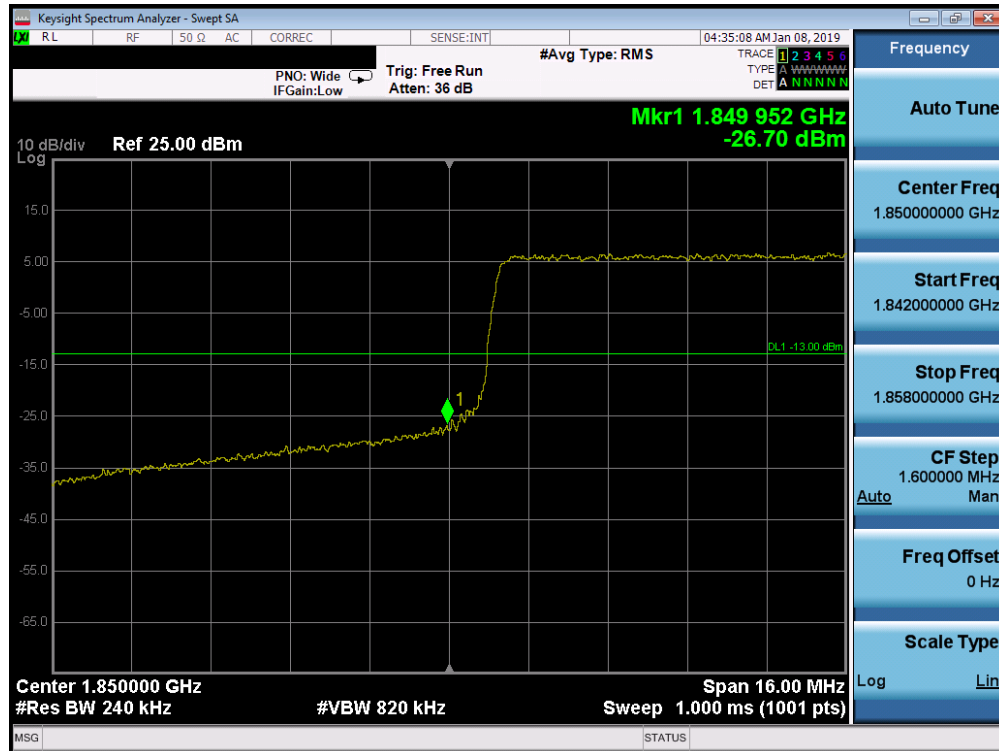


Plot 7-291. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

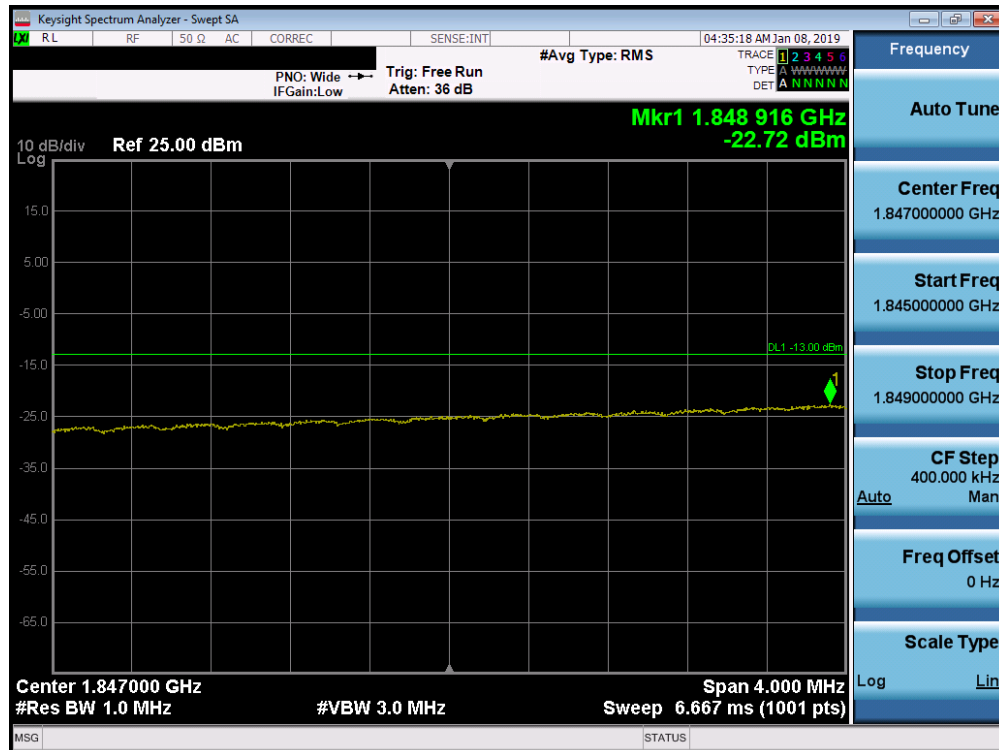


Plot 7-292. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 174 of 338



Plot 7-293. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

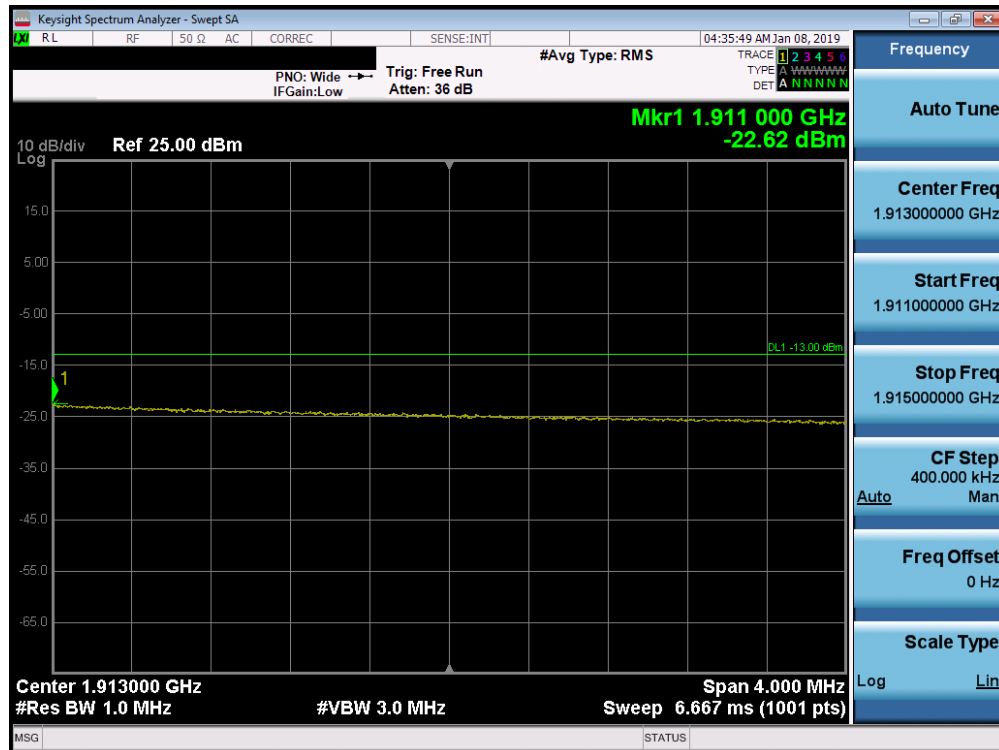


Plot 7-294. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 175 of 338



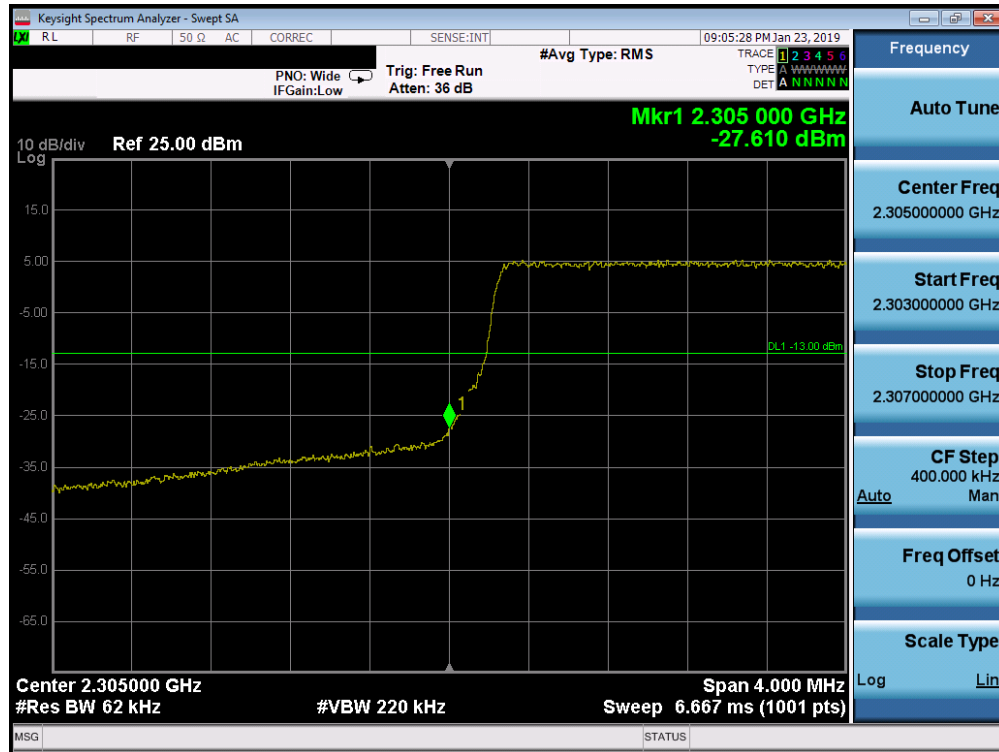
Plot 7-295. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-296. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 176 of 338

Band 30



Plot 7-297. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

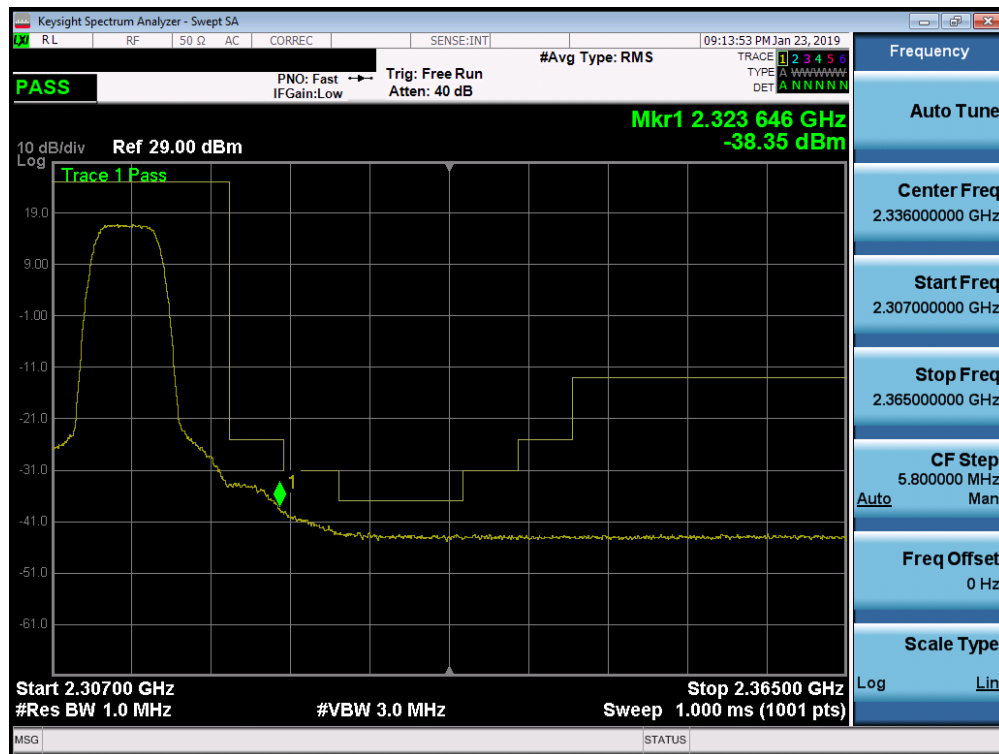


Plot 7-298. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 177 of 338

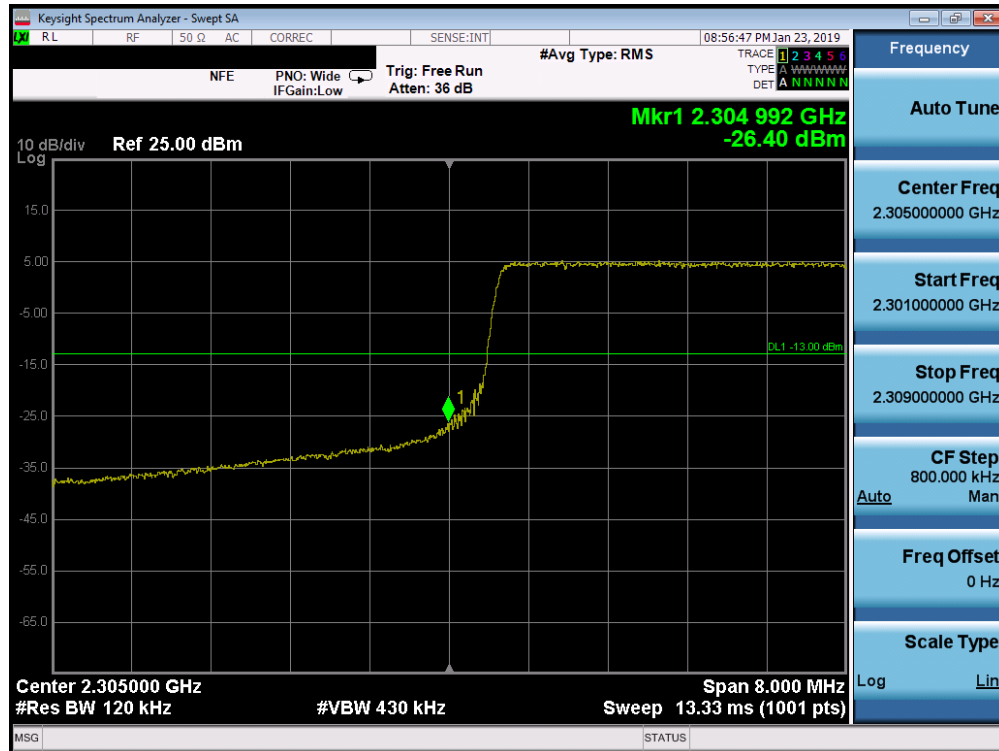


Plot 7-299. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-300. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 178 of 338



Plot 7-301. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-302. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 179 of 338



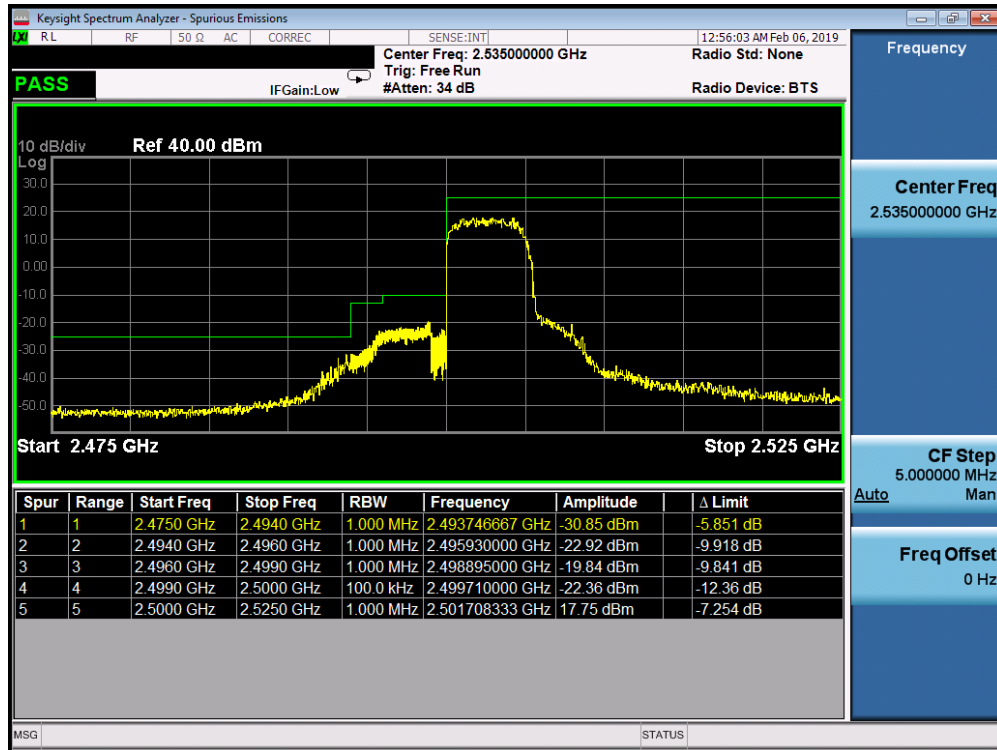
Plot 7-303. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



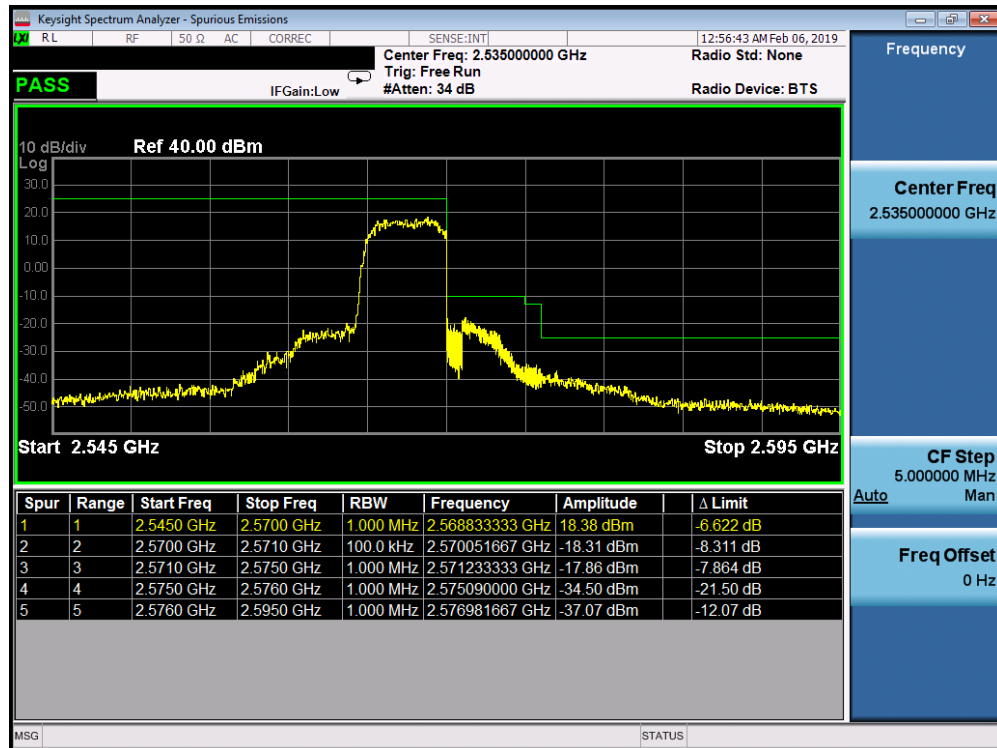
Plot 7-304. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 180 of 338

Band 7

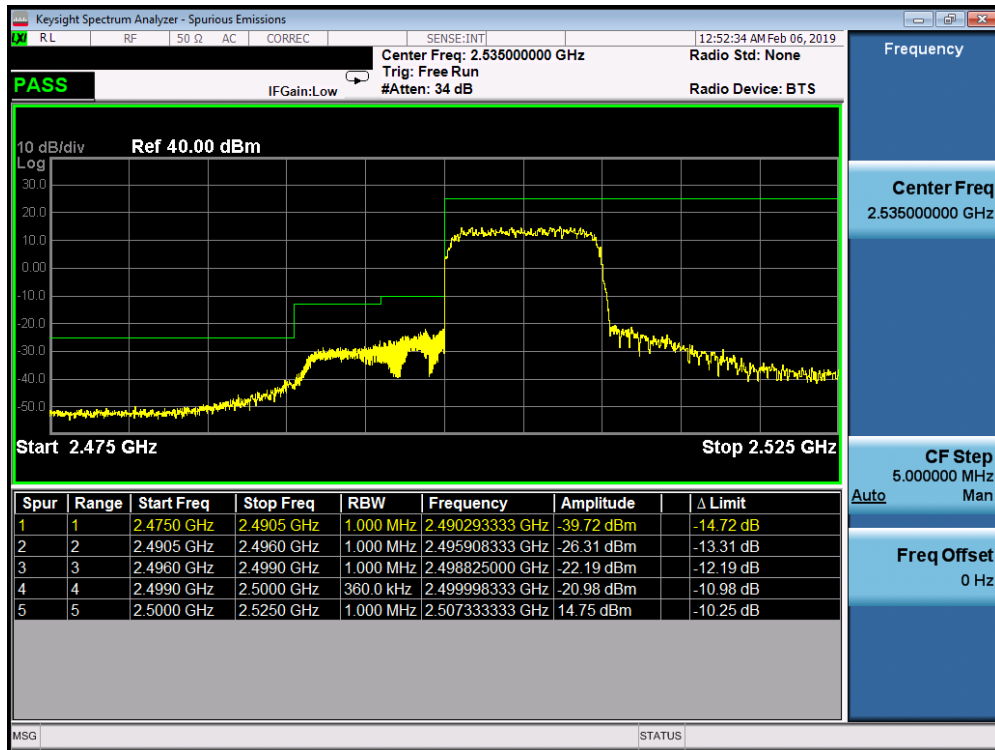


Plot 7-305. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

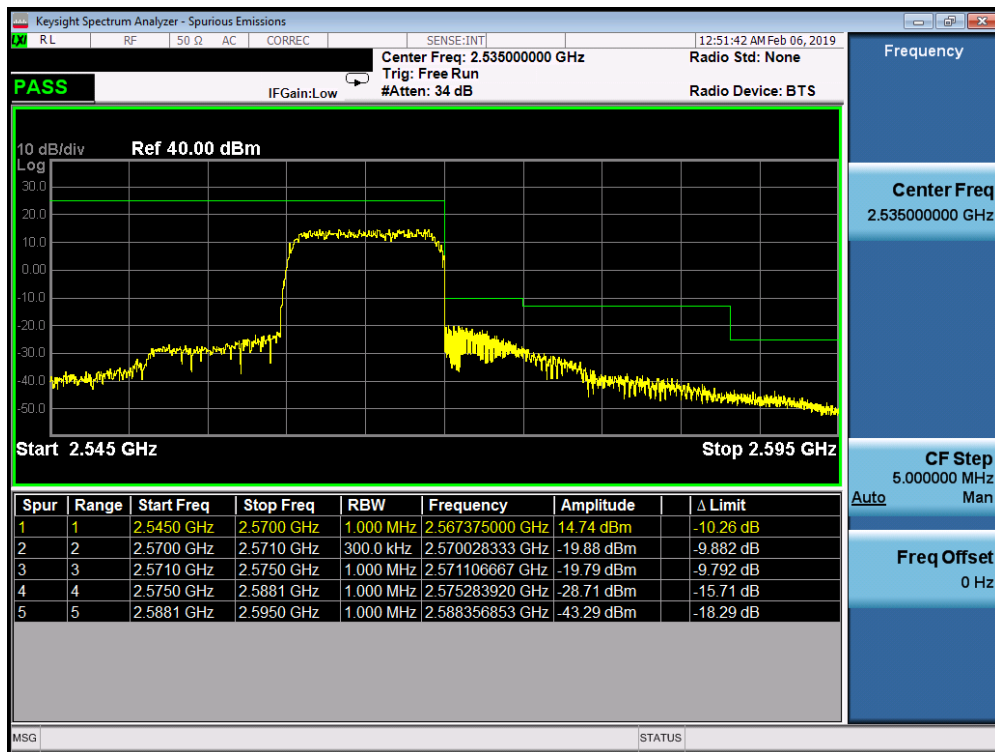


Plot 7-306. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 181 of 338

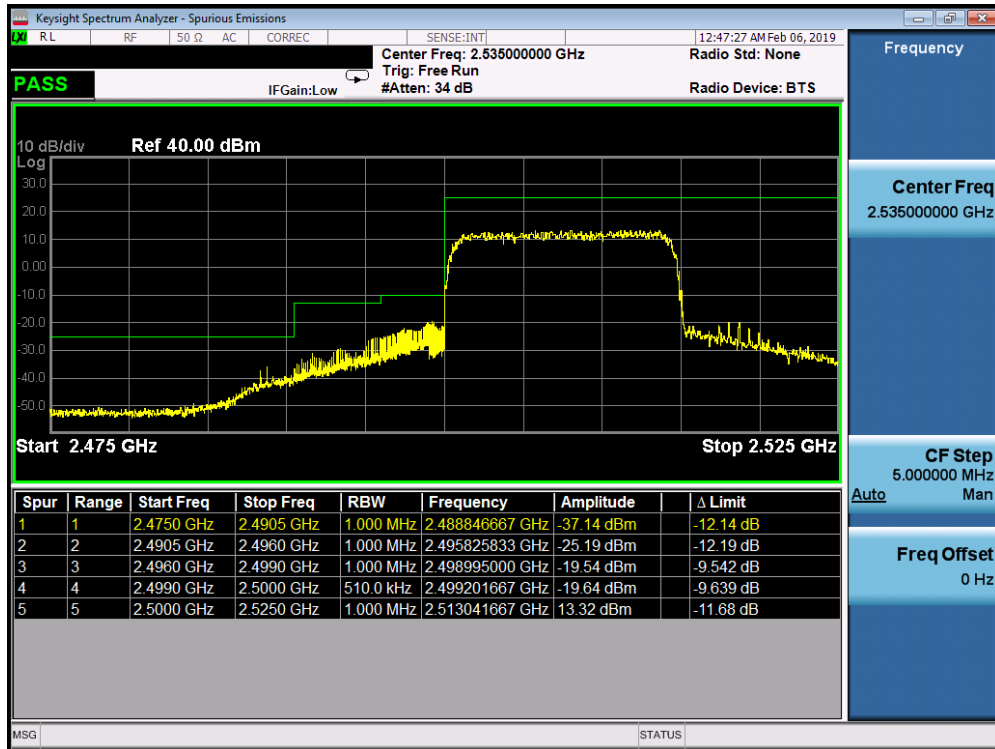


Plot 7-307. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

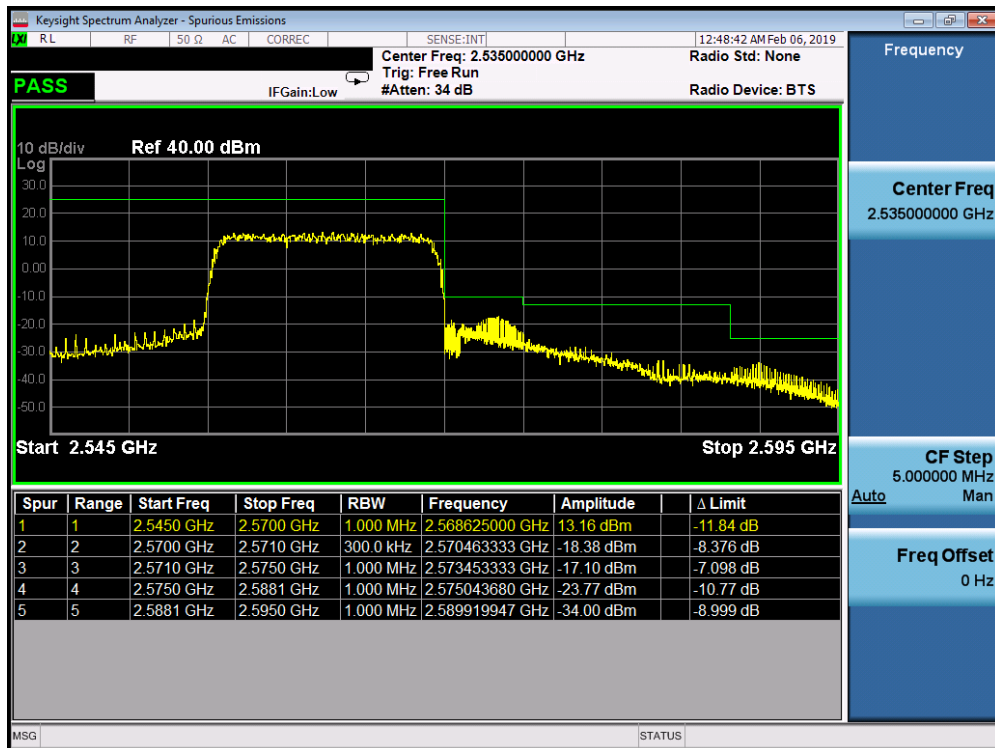


Plot 7-308. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 182 of 338

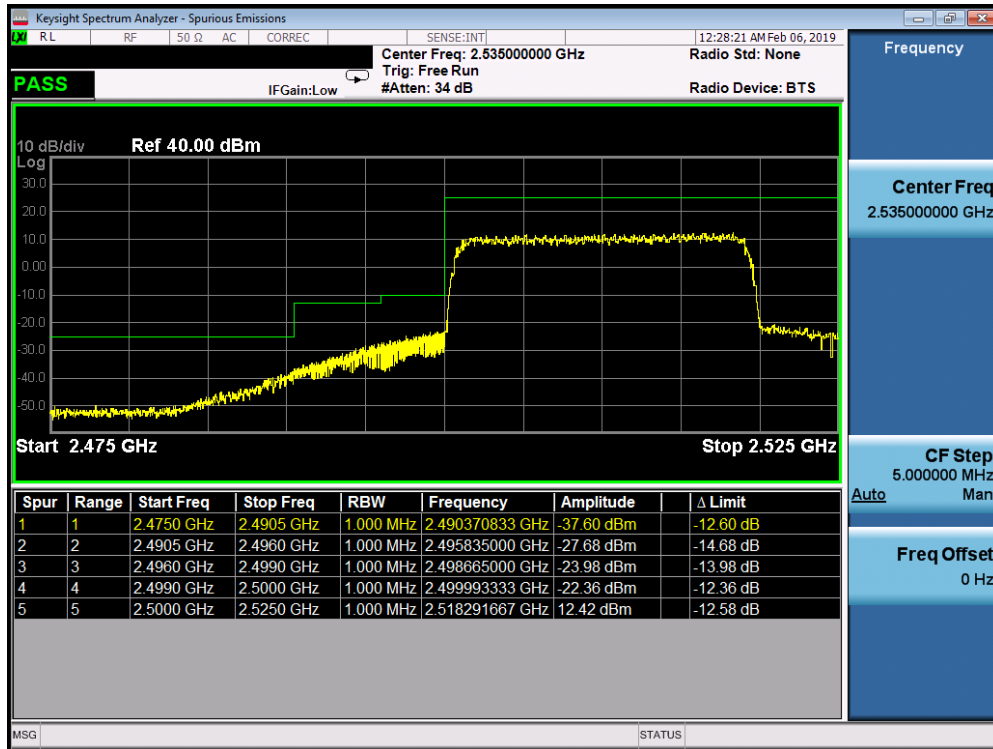


Plot 7-309. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

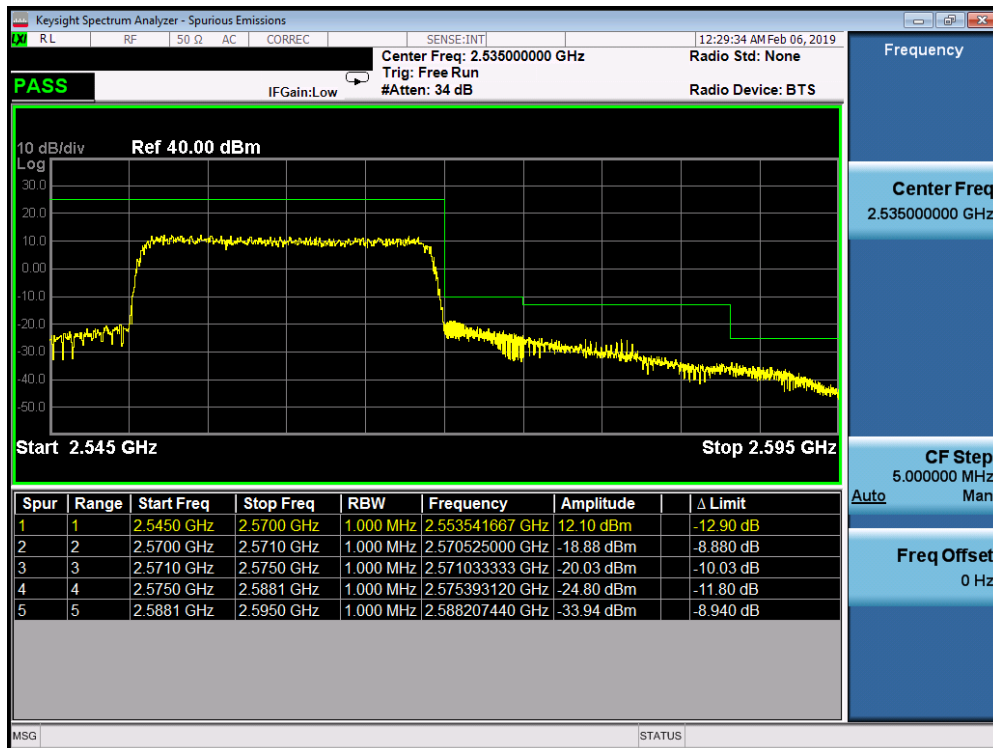


Plot 7-310. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 183 of 338



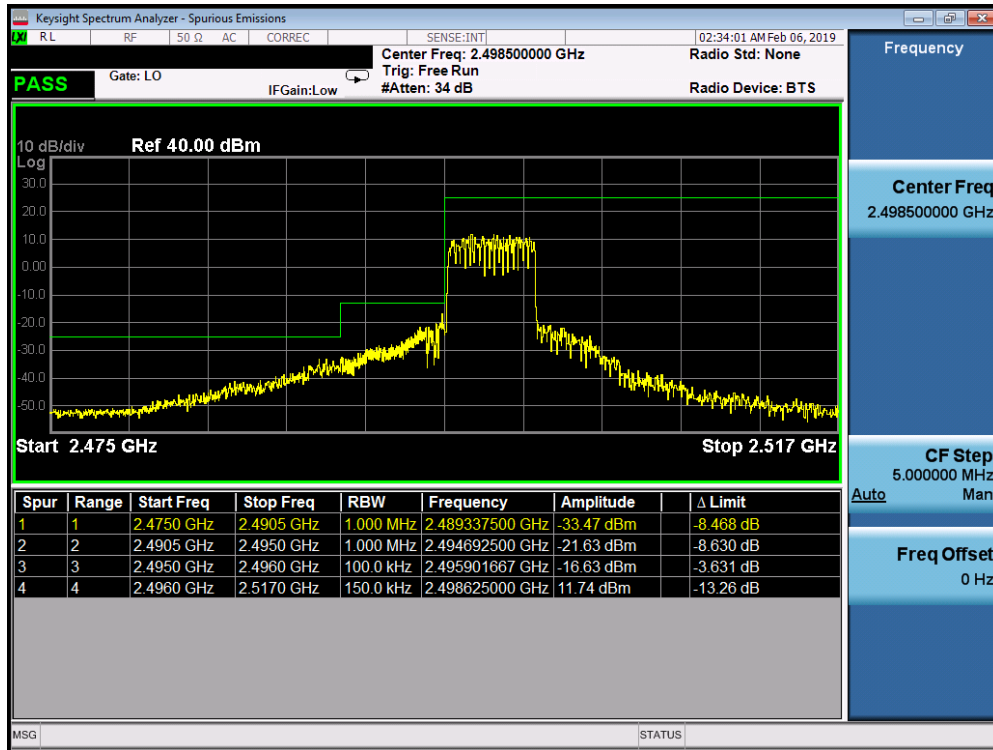
Plot 7-311. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



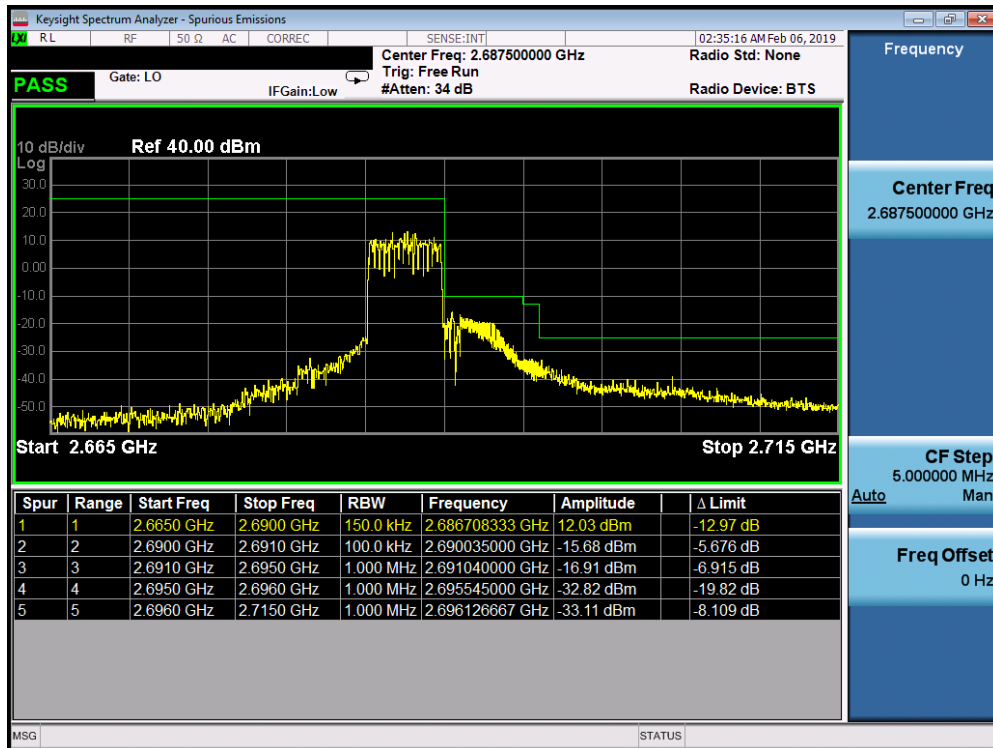
Plot 7-312. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 184 of 338

Band 41

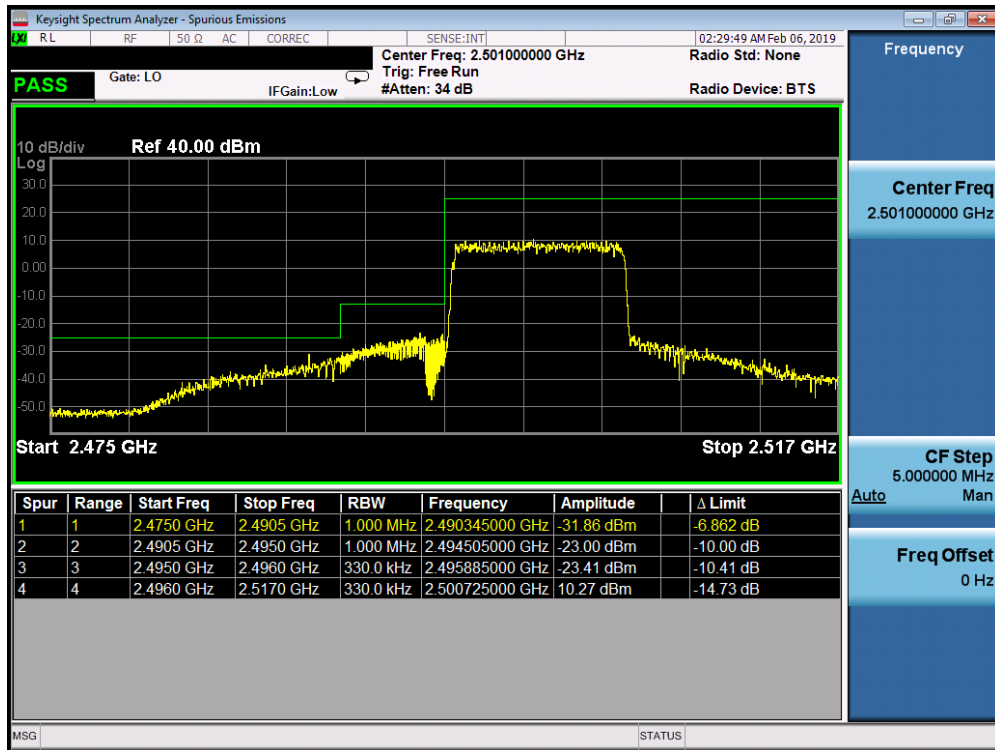


Plot 7-346. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

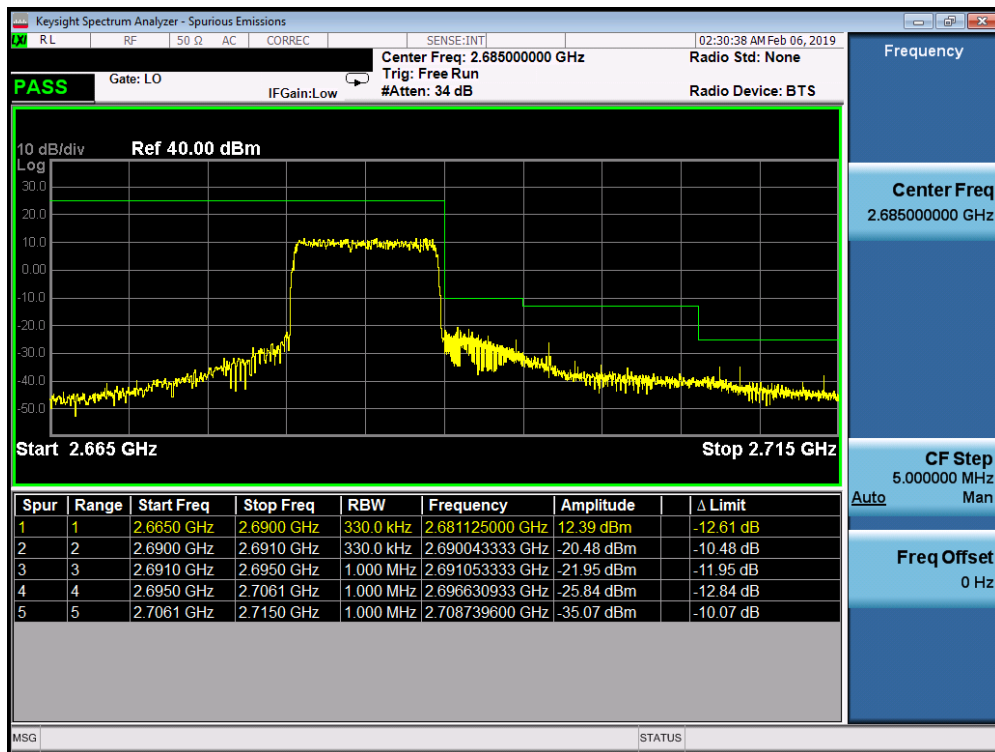


Plot 7-347. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 185 of 338

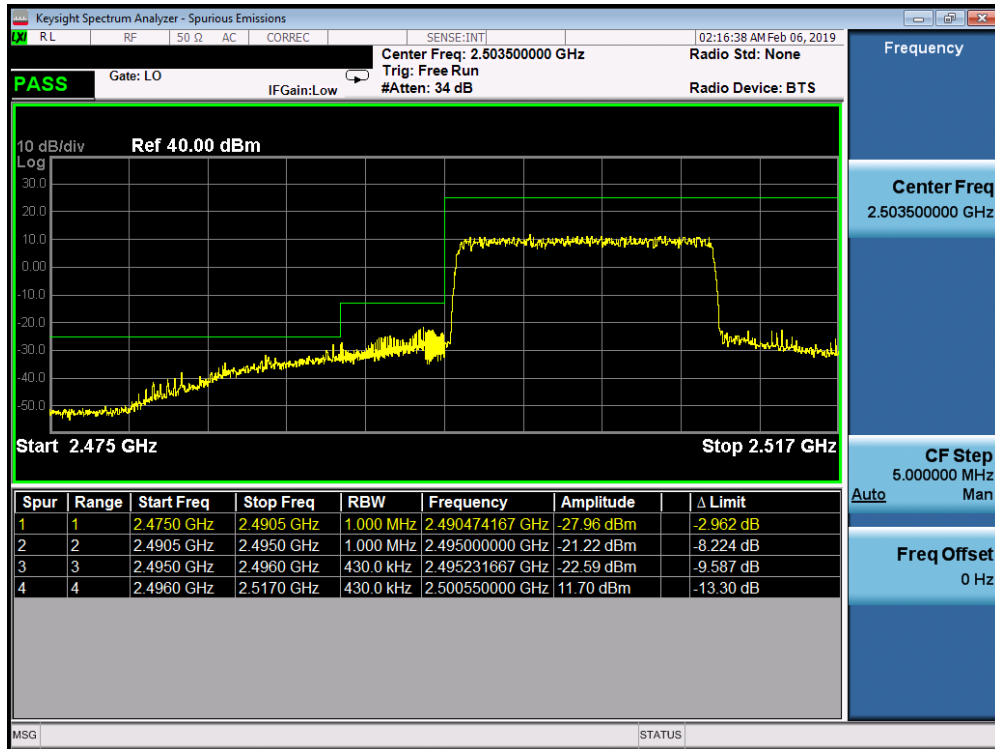


Plot 7-348. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

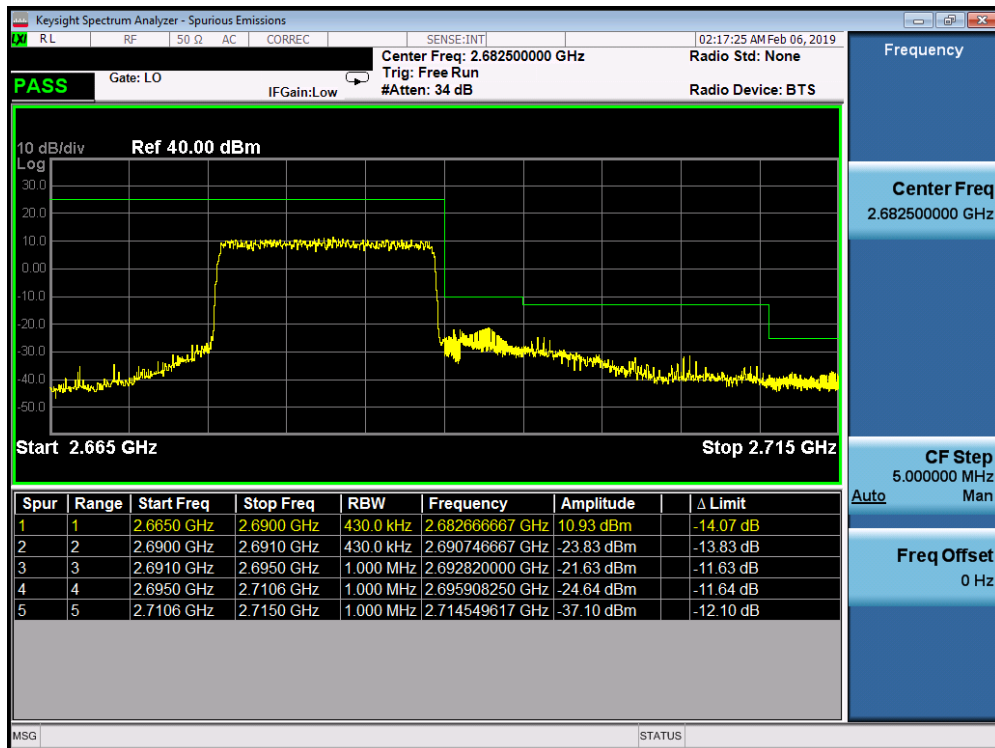


Plot 7-349. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	
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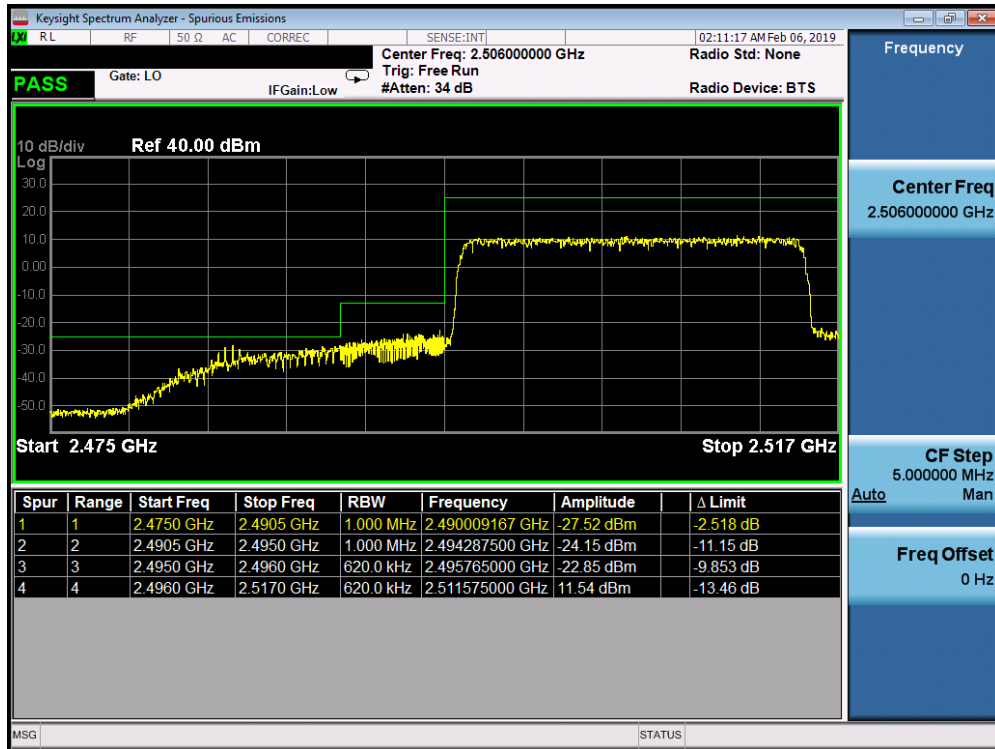


Plot 7-350. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

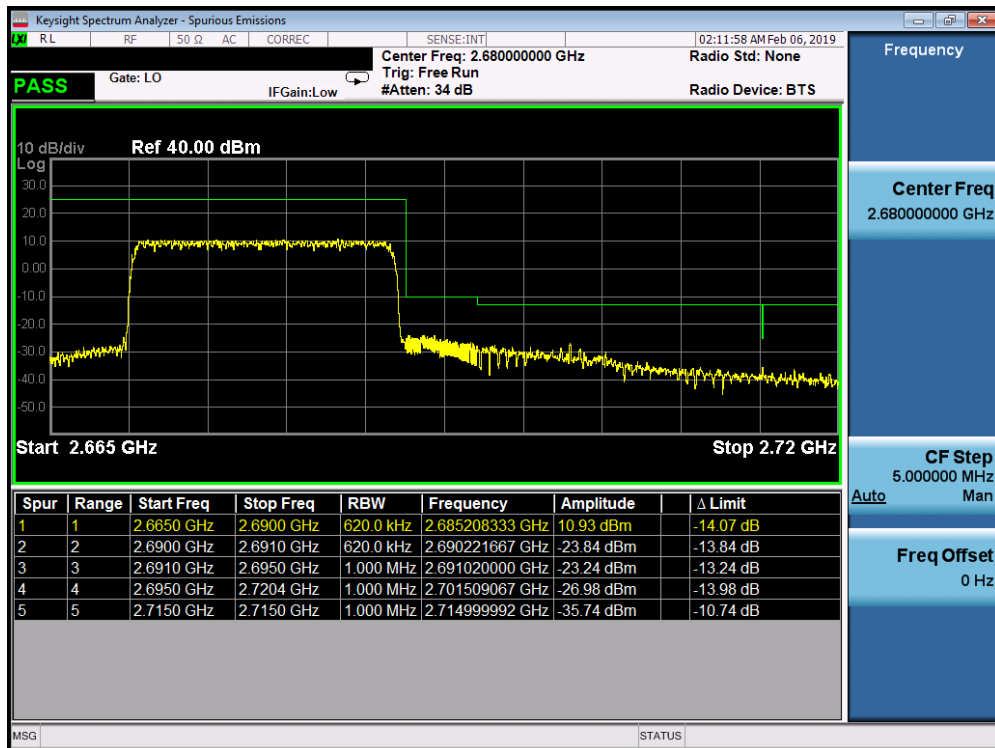


Plot 7-351. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	
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Plot 7-352. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-353. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 188 of 338

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

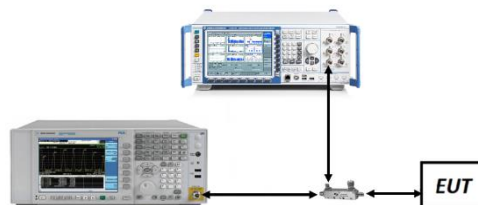


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

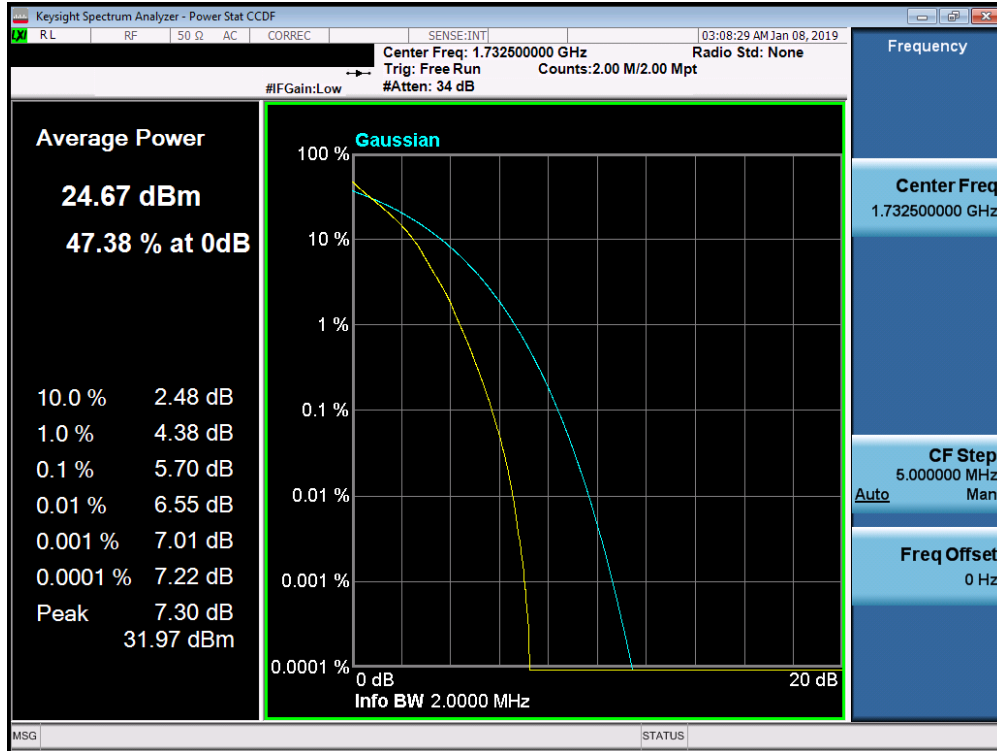
FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Mode	BW (MHz)	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	Limit [dB]	Margin [dB]
LTE Band 4	1.4	QPSK	24.67	5.70	13	-7.30
LTE Band 4	1.4	16QAM	23.68	6.36	13	-6.64
LTE Band 4	1.4	64QAM	22.72	6.57	13	-6.43
LTE Band 4	3	QPSK	24.64	5.66	13	-7.34
LTE Band 4	3	16QAM	23.62	6.35	13	-6.65
LTE Band 4	3	64QAM	22.65	6.56	13	-6.44
LTE Band 4	5	QPSK	24.64	5.69	13	-7.31
LTE Band 4	5	16QAM	23.62	6.64	13	-6.36
LTE Band 4	5	64QAM	22.65	6.51	13	-6.49
LTE Band 4	10	QPSK	24.64	5.65	13	-7.35
LTE Band 4	10	16QAM	23.61	6.35	13	-6.65
LTE Band 4	10	64QAM	22.62	6.46	13	-6.54
LTE Band 4	15	QPSK	24.65	5.90	13	-7.10
LTE Band 4	15	16QAM	23.62	6.31	13	-6.69
LTE Band 4	15	64QAM	22.64	6.44	13	-6.56
LTE Band 4	20	QPSK	24.69	5.53	13	-7.47
LTE Band 4	20	16QAM	23.66	6.28	13	-6.72
LTE Band 4	20	64QAM	22.69	6.44	13	-6.56
LTE Band 66	1.4	QPSK	24.67	5.58	13	-7.42
LTE Band 66	1.4	16QAM	23.68	6.33	13	-6.67
LTE Band 66	1.4	64QAM	22.72	6.53	13	-6.47
LTE Band 66	3	QPSK	24.68	5.63	13	-7.37
LTE Band 66	3	16QAM	23.66	6.28	13	-6.72
LTE Band 66	3	64QAM	22.67	6.47	13	-6.53
LTE Band 66	5	QPSK	24.66	5.65	13	-7.35
LTE Band 66	5	16QAM	23.64	6.33	13	-6.67
LTE Band 66	5	64QAM	22.65	6.48	13	-6.52
LTE Band 66	10	QPSK	24.66	5.67	13	-7.33
LTE Band 66	10	16QAM	23.62	6.35	13	-6.65
LTE Band 66	10	64QAM	22.64	6.47	13	-6.53
LTE Band 66	15	QPSK	24.67	5.93	13	-7.07
LTE Band 66	15	16QAM	23.64	6.32	13	-6.68
LTE Band 66	15	64QAM	22.67	6.43	13	-6.57
LTE Band 66	20	QPSK	24.70	5.60	13	-7.40
LTE Band 66	20	16QAM	23.66	6.32	13	-6.68
LTE Band 66	20	64QAM	22.68	6.44	13	-6.56
LTE Band 2	1.4	QPSK	24.61	5.83	13	-7.17
LTE Band 2	1.4	16QAM	23.65	6.5	13	-6.50
LTE Band 2	1.4	64QAM	22.69	6.70	13	-6.30
LTE Band 2	3	QPSK	24.59	5.74	13	-7.26
LTE Band 2	3	16QAM	23.62	6.45	13	-6.55
LTE Band 2	3	64QAM	22.64	6.72	13	-6.28
LTE Band 2	5	QPSK	24.60	5.76	13	-7.24
LTE Band 2	5	16QAM	23.61	6.48	13	-6.52
LTE Band 2	5	64QAM	22.64	6.67	13	-6.33
LTE Band 2	10	QPSK	24.61	5.79	13	-7.21
LTE Band 2	10	16QAM	23.60	6.51	13	-6.49
LTE Band 2	10	64QAM	22.66	6.70	13	-6.30
LTE Band 2	15	QPSK	24.65	6.04	13	-6.96
LTE Band 2	15	16QAM	23.65	6.48	13	-6.52
LTE Band 2	15	64QAM	22.67	6.65	13	-6.35
LTE Band 2	20	QPSK	24.70	5.63	13	-7.37
LTE Band 2	20	16QAM	23.70	6.38	13	-6.62
LTE Band 2	20	64QAM	22.73	6.61	13	-6.39
LTE Band 25	1.4	QPSK	24.60	5.83	13	-7.17
LTE Band 25	1.4	16QAM	23.65	6.49	13	-6.51
LTE Band 25	1.4	64QAM	22.68	6.74	13	-6.26
LTE Band 25	3	QPSK	24.60	5.73	13	-7.27
LTE Band 25	3	16QAM	23.62	6.46	13	-6.54
LTE Band 25	3	64QAM	22.65	6.73	13	-6.27
LTE Band 25	5	QPSK	24.60	5.88	13	-7.12
LTE Band 25	5	16QAM	23.62	6.47	13	-6.53
LTE Band 25	5	64QAM	22.65	6.68	13	-6.32
LTE Band 25	10	QPSK	24.62	5.81	13	-7.19
LTE Band 25	10	16QAM	23.62	6.49	13	-6.51
LTE Band 25	10	64QAM	22.65	6.71	13	-6.29
LTE Band 25	15	QPSK	24.65	6.05	13	-6.95
LTE Band 25	15	16QAM	23.64	6.47	13	-6.53
LTE Band 25	15	64QAM	22.67	6.63	13	-6.37
LTE Band 25	20	QPSK	24.66	5.65	13	-7.35
LTE Band 25	20	16QAM	23.68	6.42	13	-6.58
LTE Band 25	20	64QAM	22.70	6.59	13	-6.41

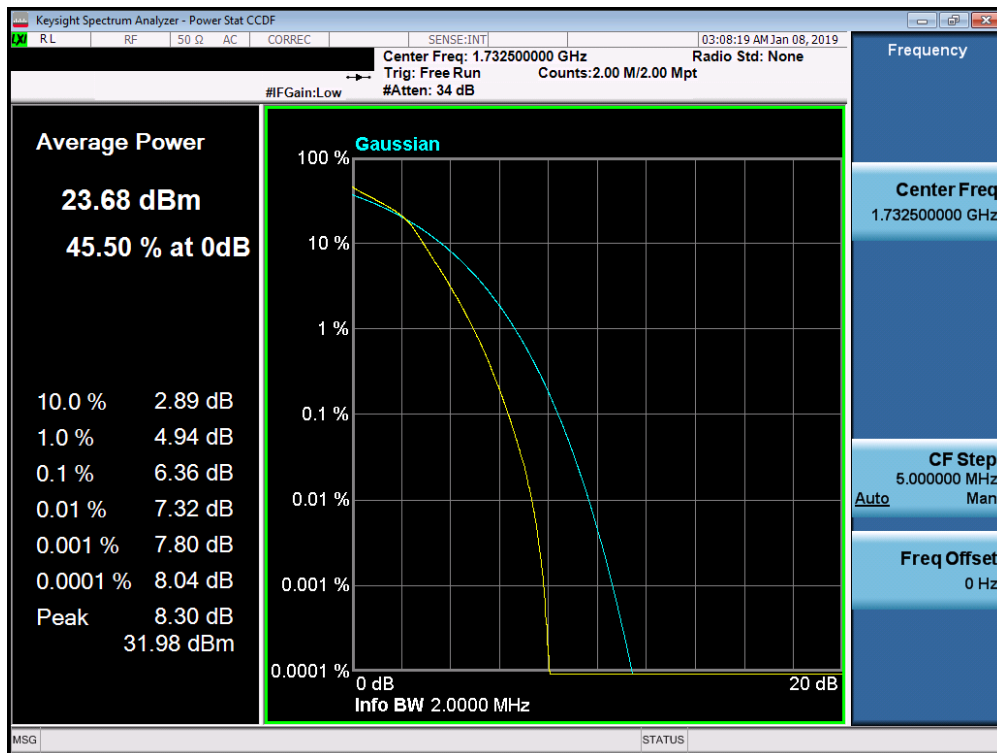
Table 7-6. PAR Table

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 4

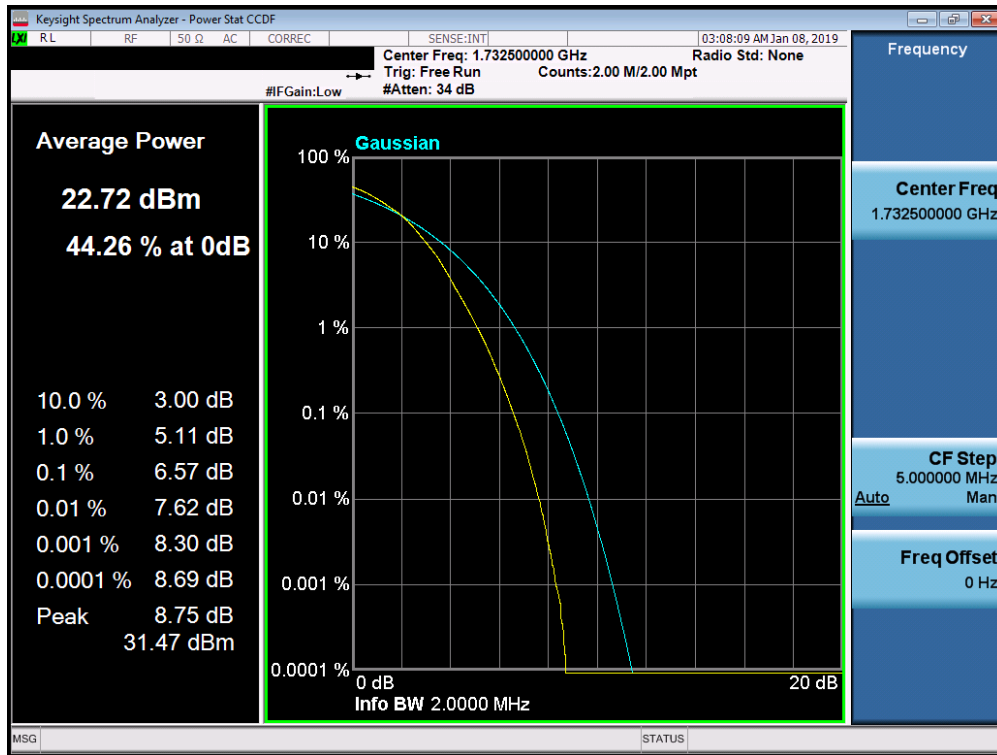


Plot 7-313. PAR Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

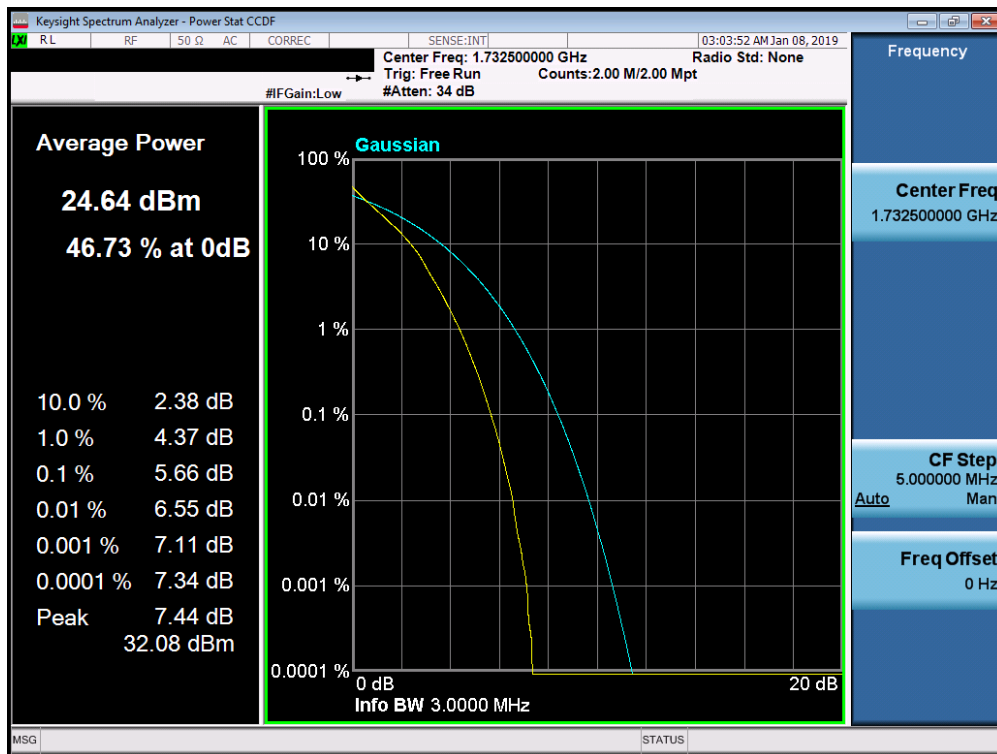


Plot 7-314. PAR Plot (Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-315. PAR Plot (Band 4 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-316. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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