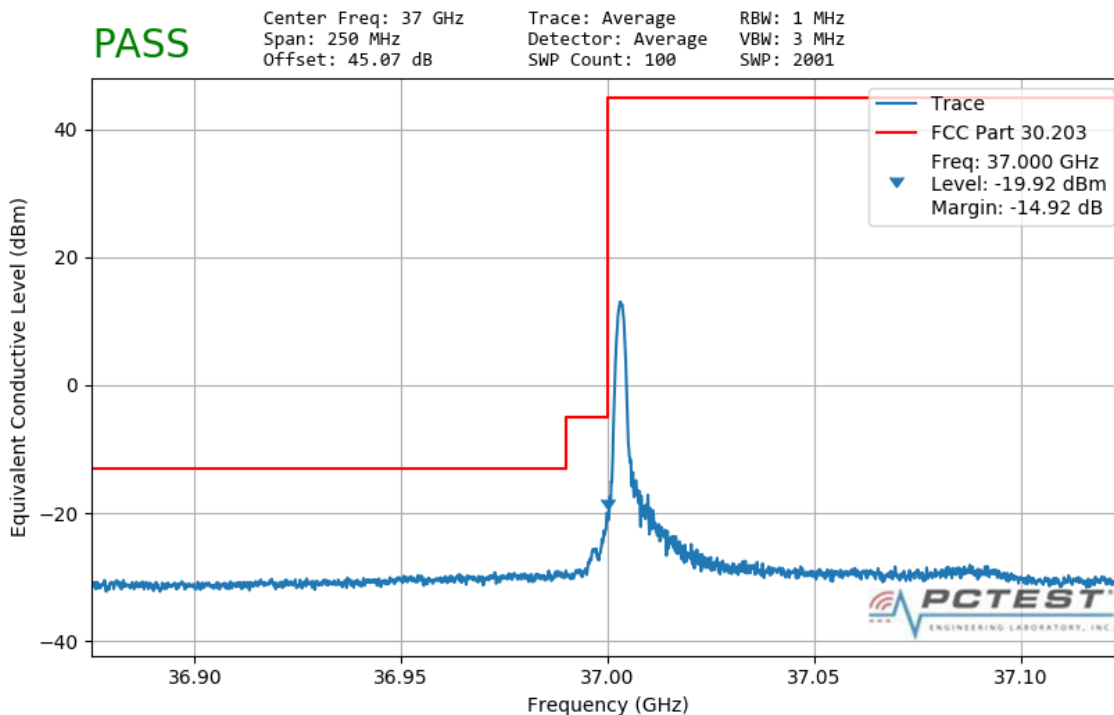
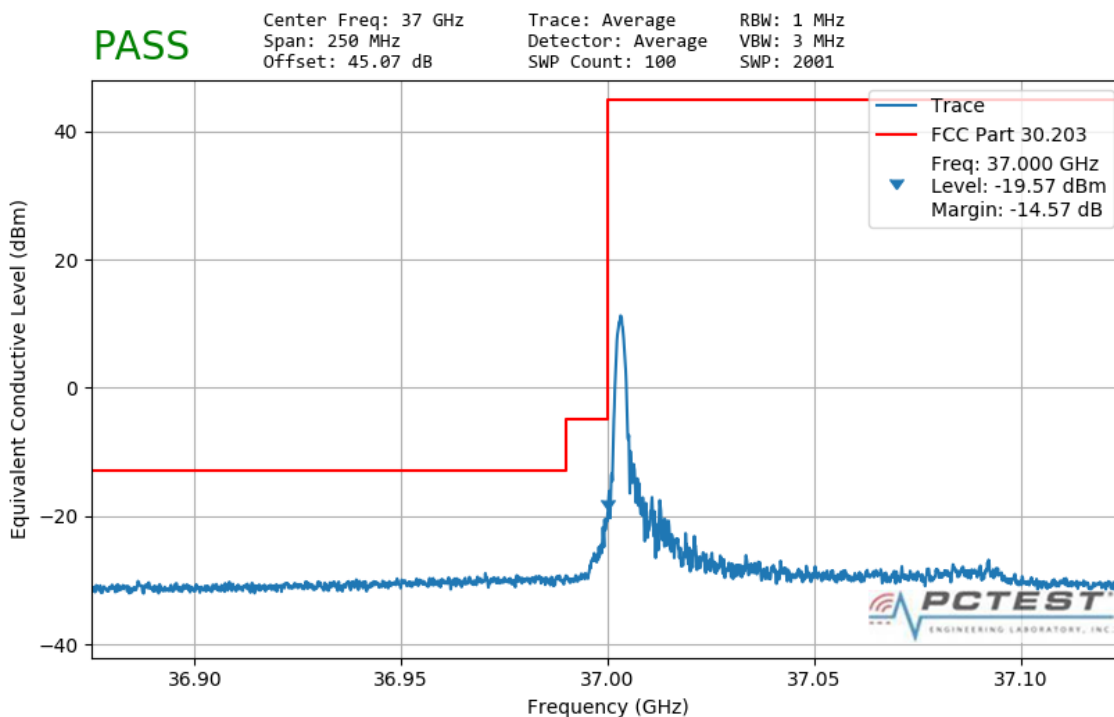


QTM 1 - H + V

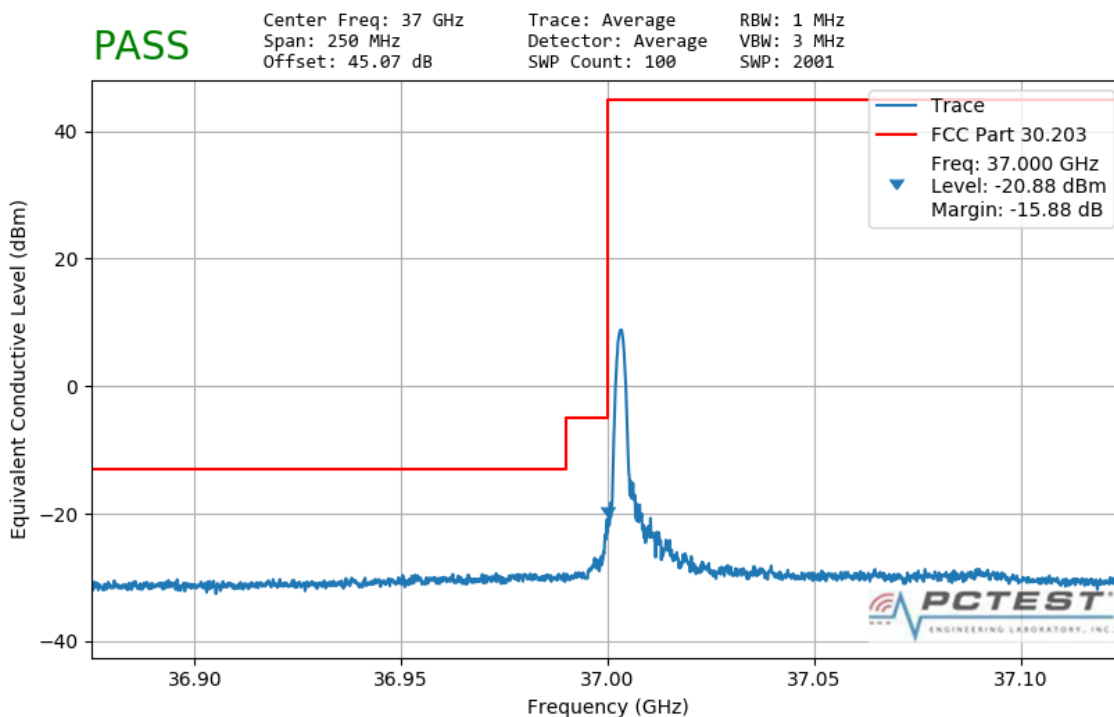


Plot 7-285. Band Edge Plot (1CC 100M QPSK Low Channel – 1 RB 0 offset)

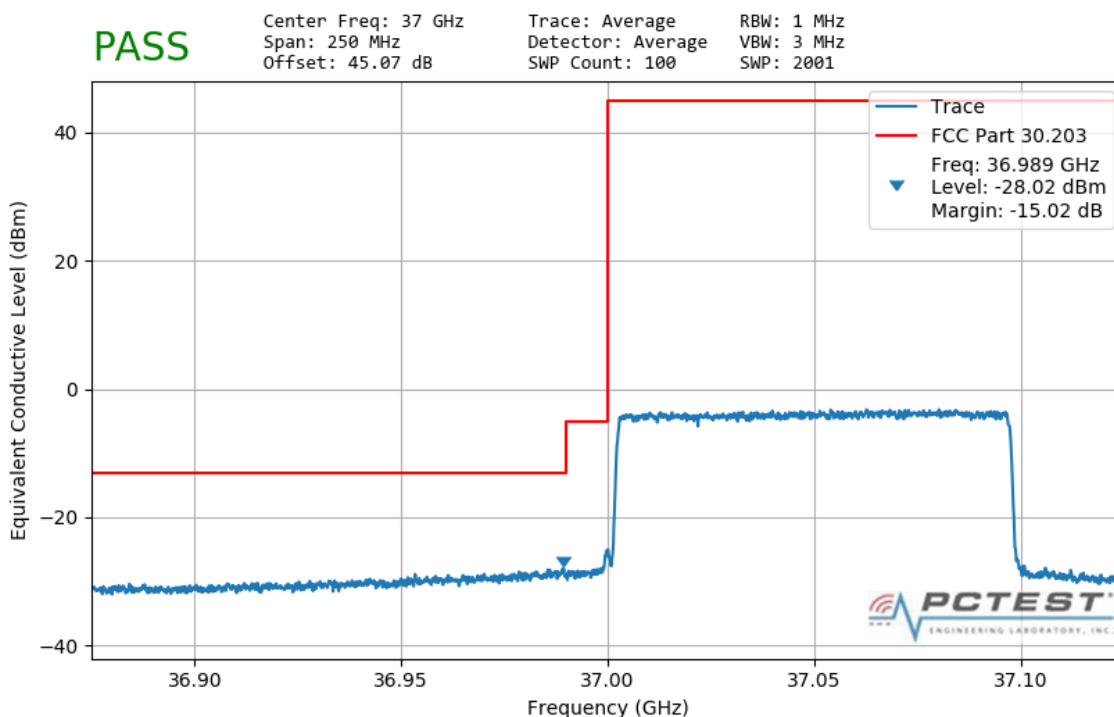


Plot 7-286. Band Edge Plot (1CC 100M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 179 of 202

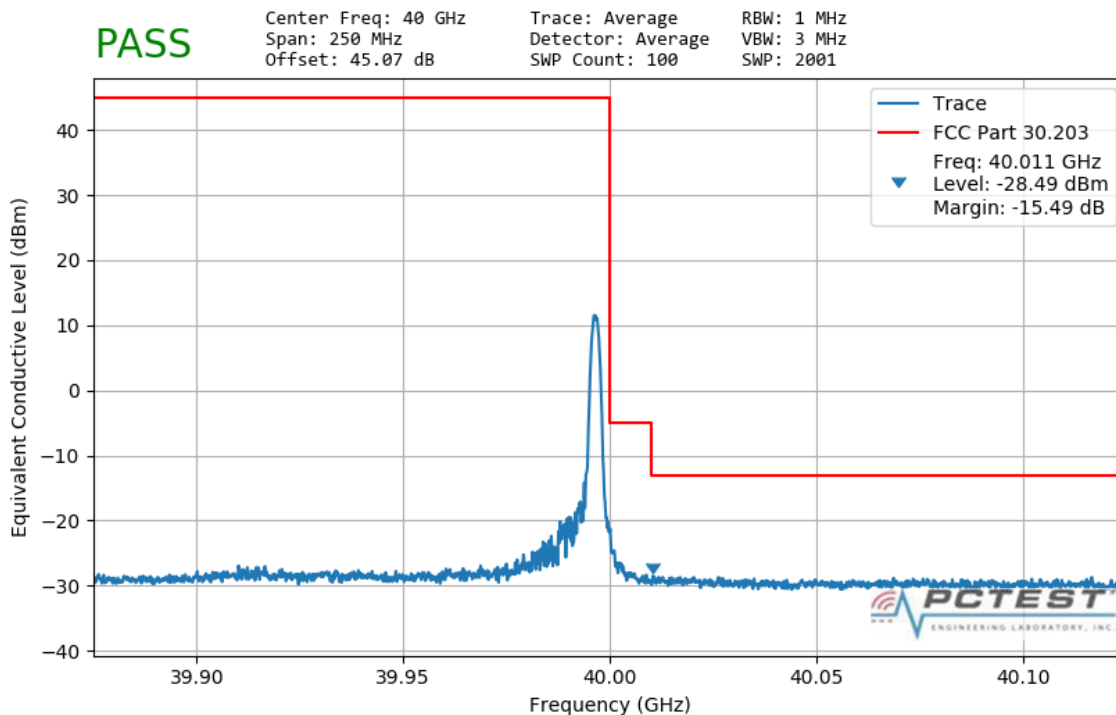


Plot 7-287. Band Edge Plot (1CC 100M 64QAM Low Channel – 1 RB 0 offset)

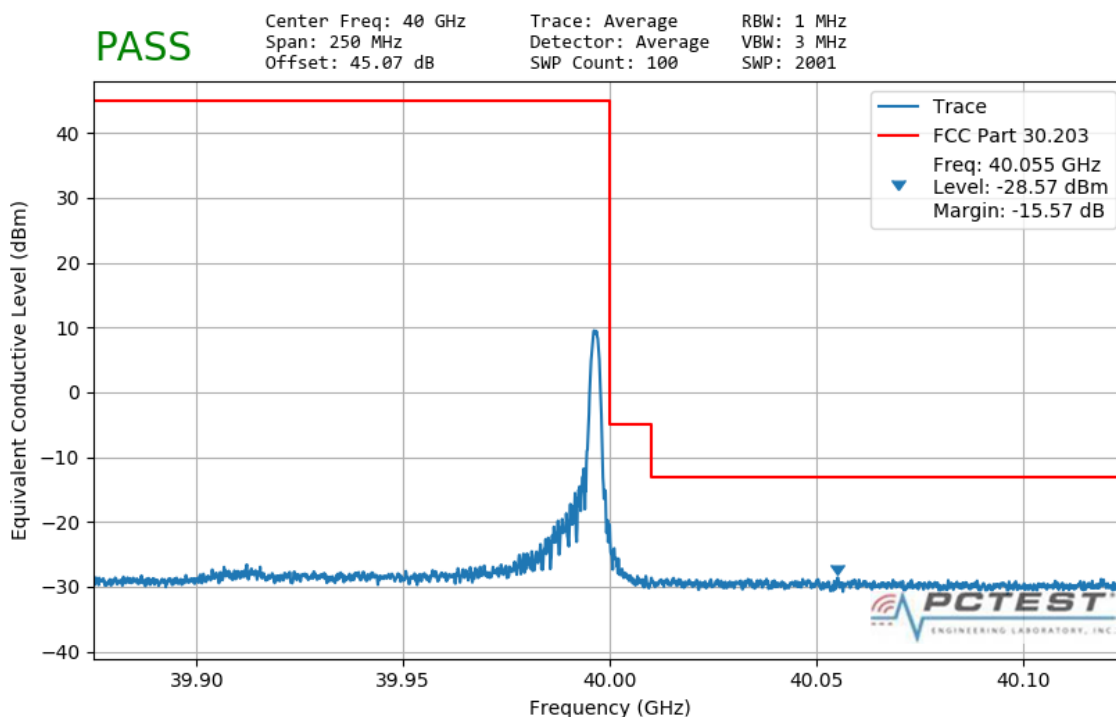


Plot 7-288. Band Edge Plot (1CC 100M QPSK Low Channel – 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 180 of 202

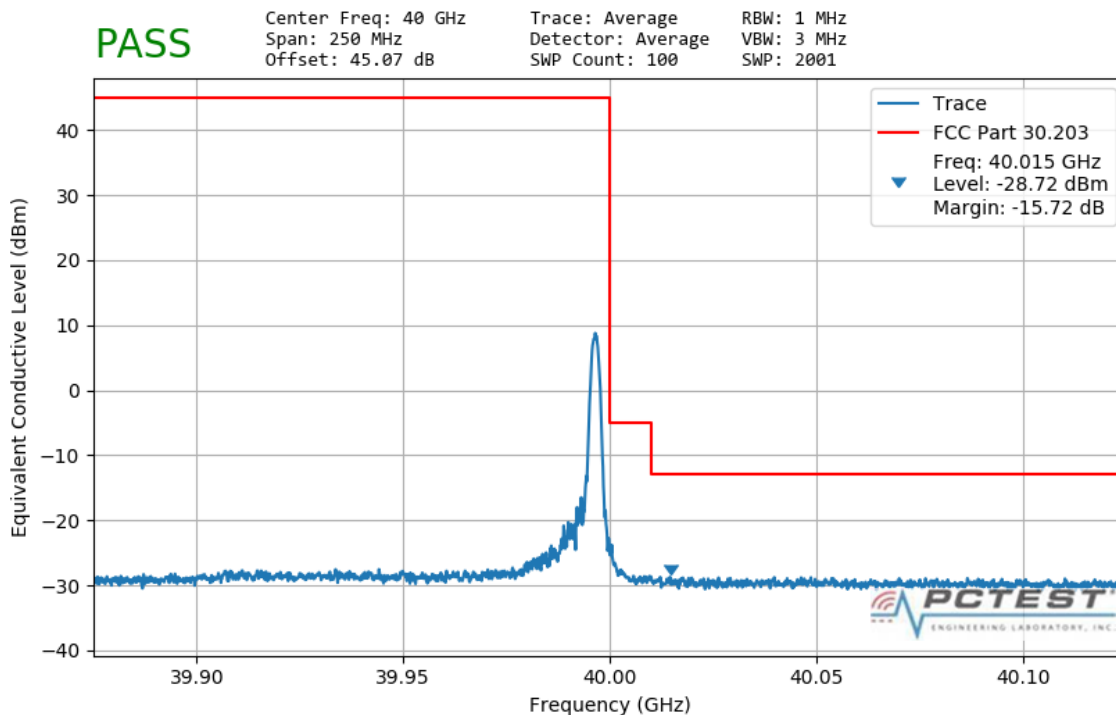


Plot 7-289. Band Edge Plot (1CC 100M QPSK Hi Channel- 1 RB 65 offset)

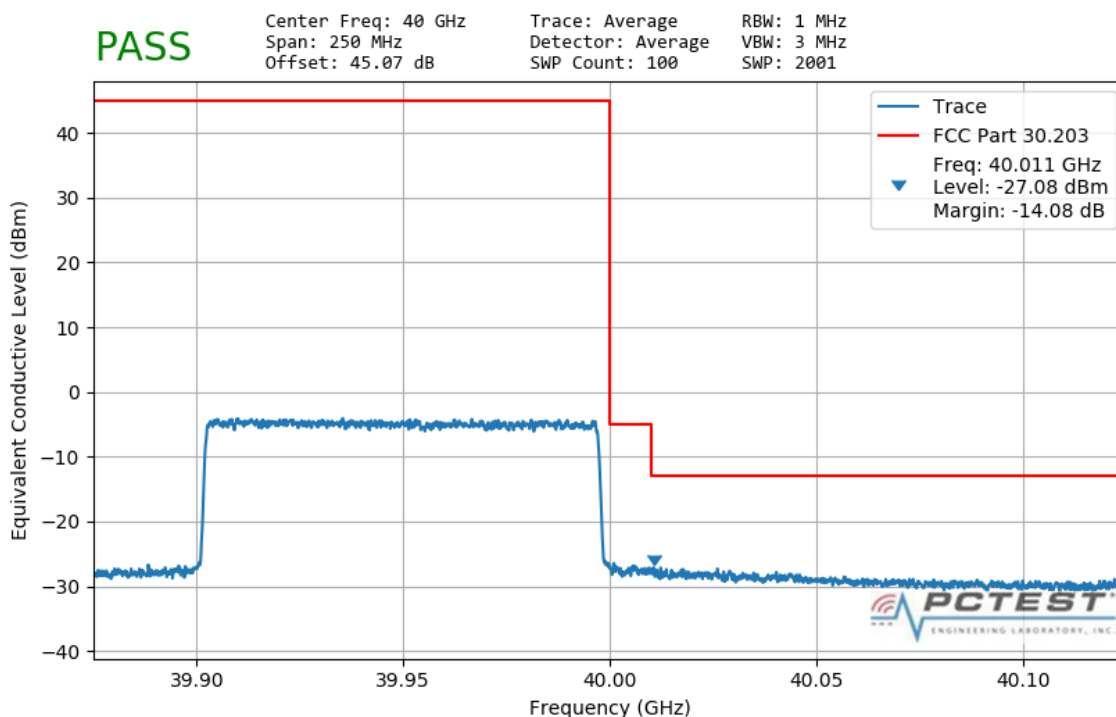


Plot 7-290. Band Edge Plot (1CC 100M 16QAM Hi Channel- 1 RB 65 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 181 of 202



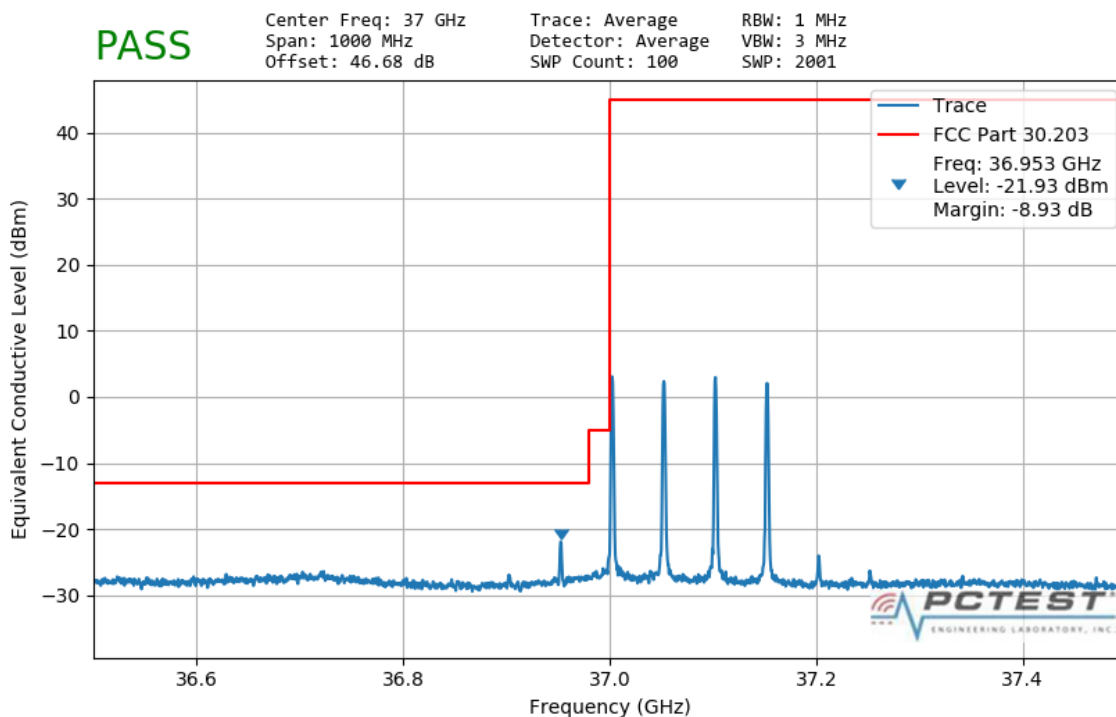
Plot 7-291. Band Edge Plot (1CC 100M 64QAM Hi Channel – 1 RB 65 offset)



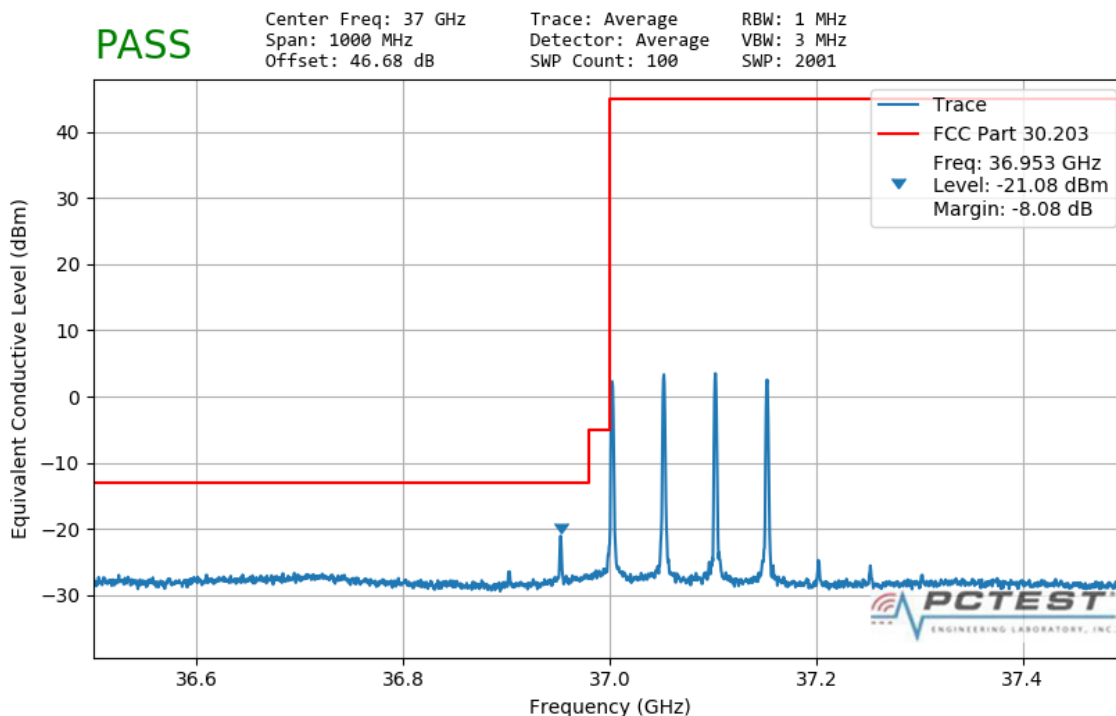
Plot 7-292. Band Edge Plot (1CC 100M QPSK Hi Channel- 32 RB 65 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 182 of 202

7.5.8 N260 4CC 50MHz Bandwidth Band Edges QTM 0 - H + V

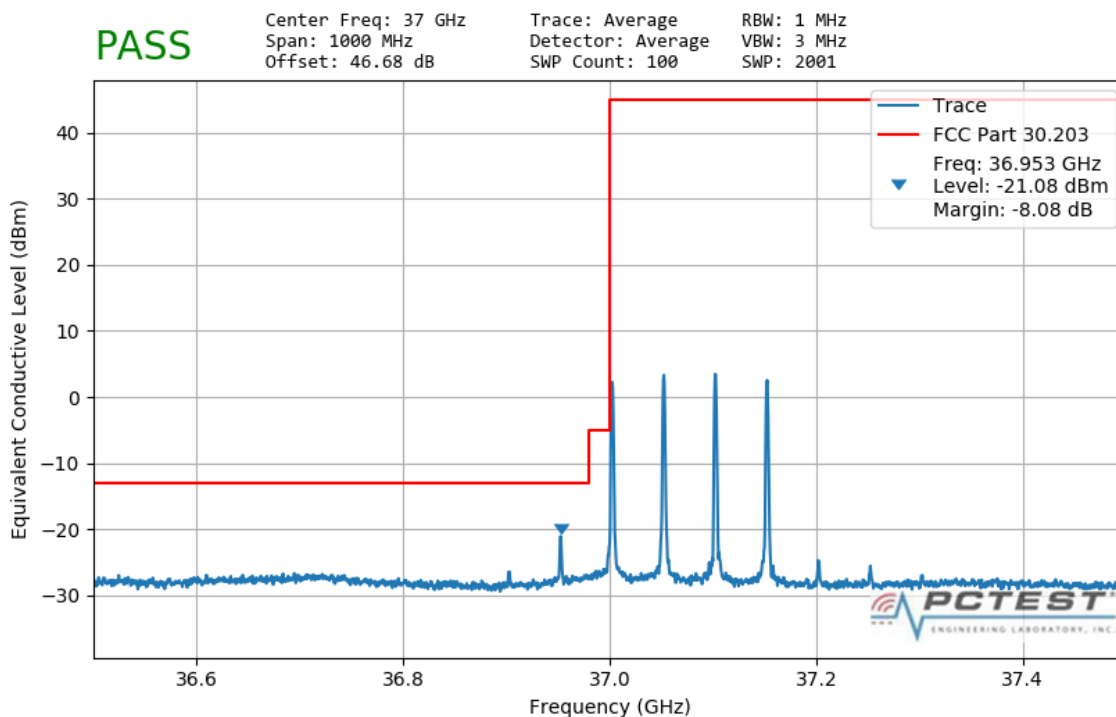


Plot 7-293. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB 0 offset)

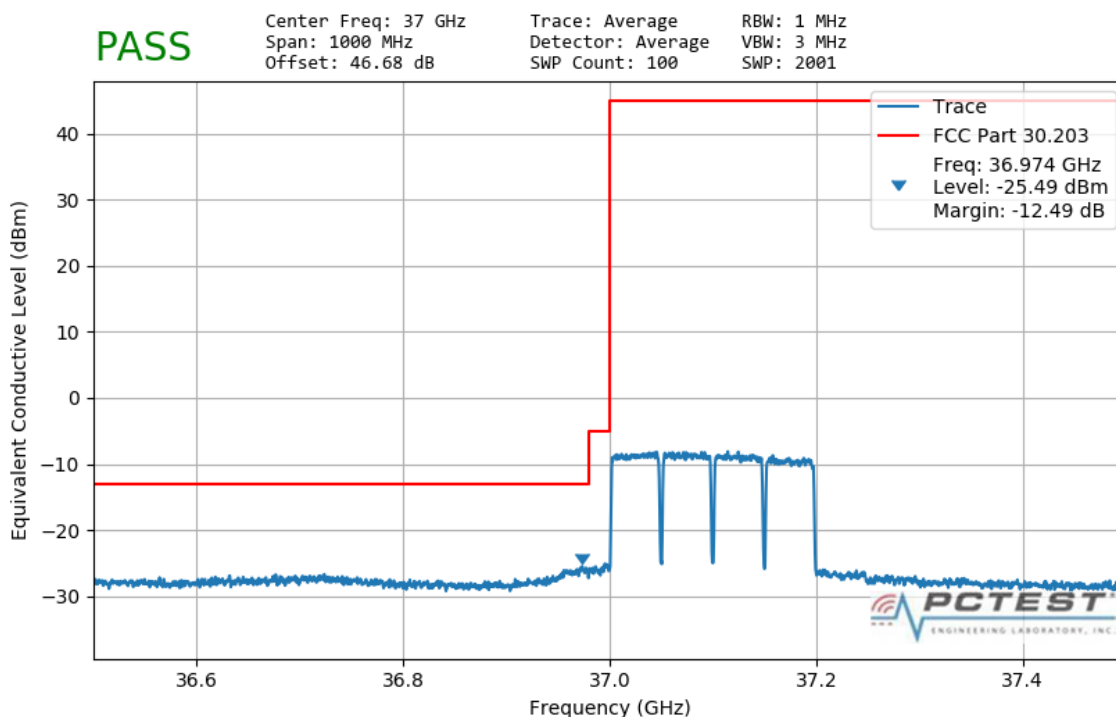


Plot 7-294. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 183 of 202

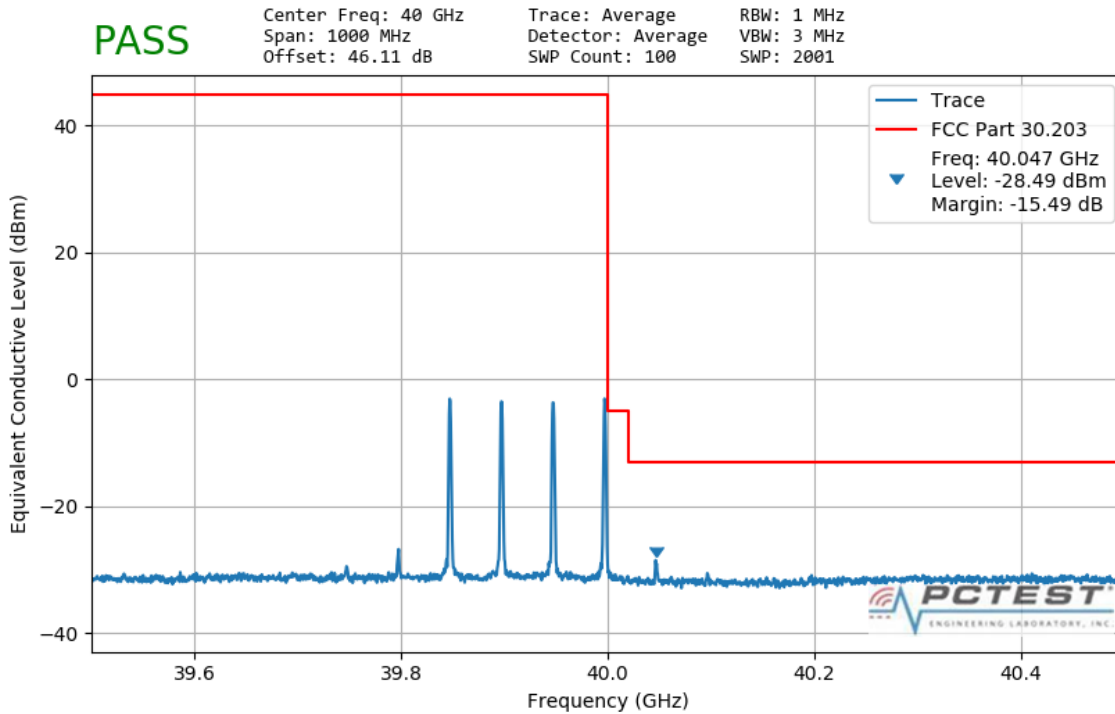


Plot 7-295. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB 0 offset)

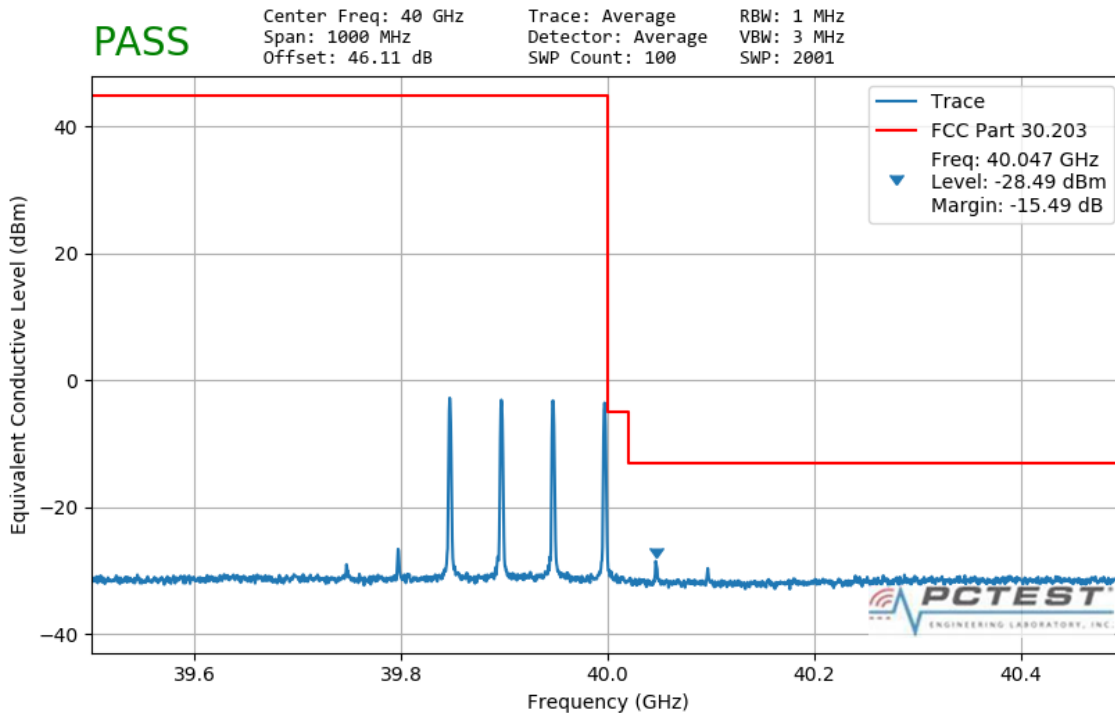


Plot 7-296. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 184 of 202

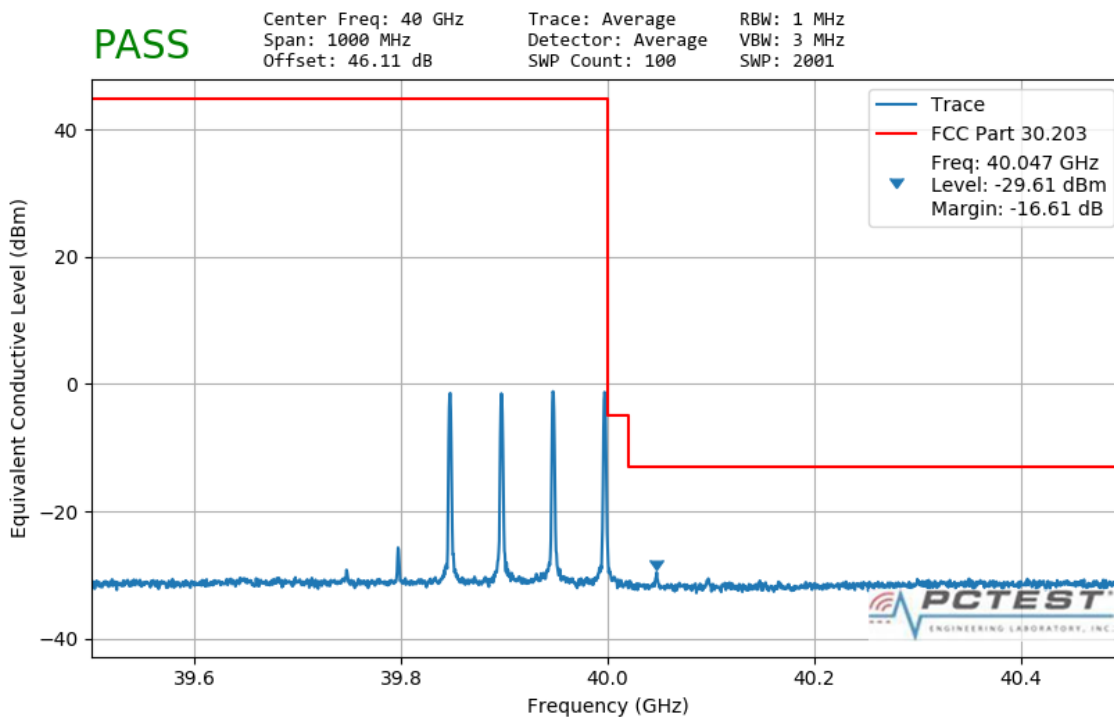


Plot 7-297. Band Edge Plot (4CC 50M QPSK Hi Channel- 1 RB 0 offset)

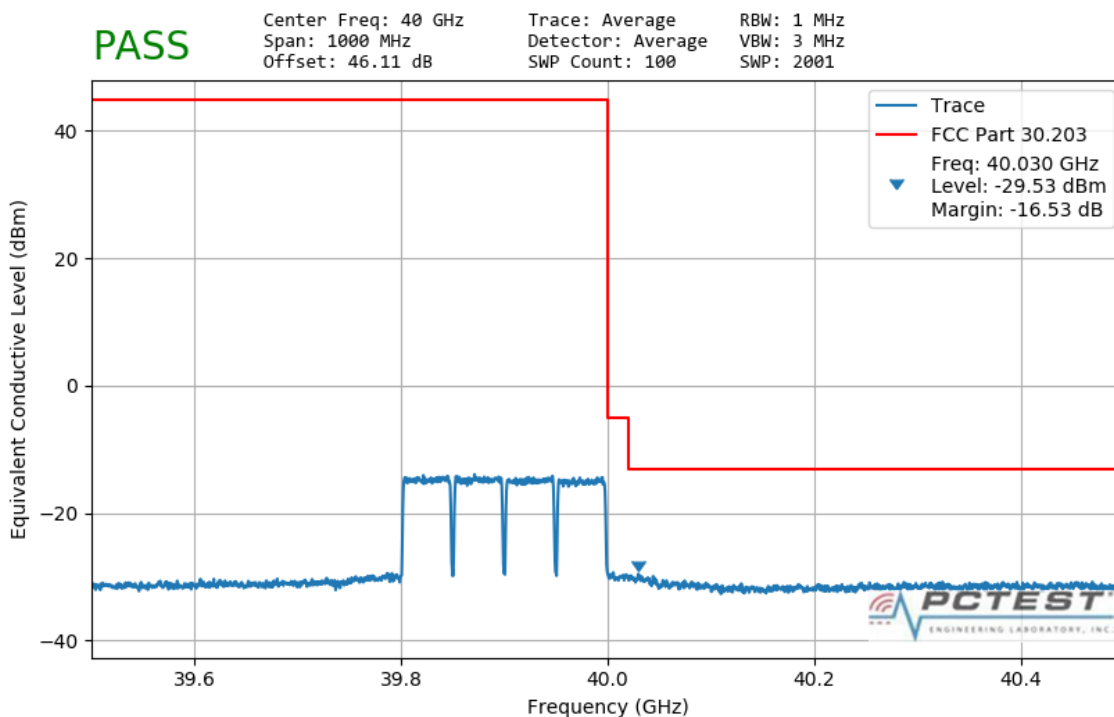


Plot 7-298. Band Edge Plot (4CC 50M 16QAM Hi Channel- 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 185 of 202



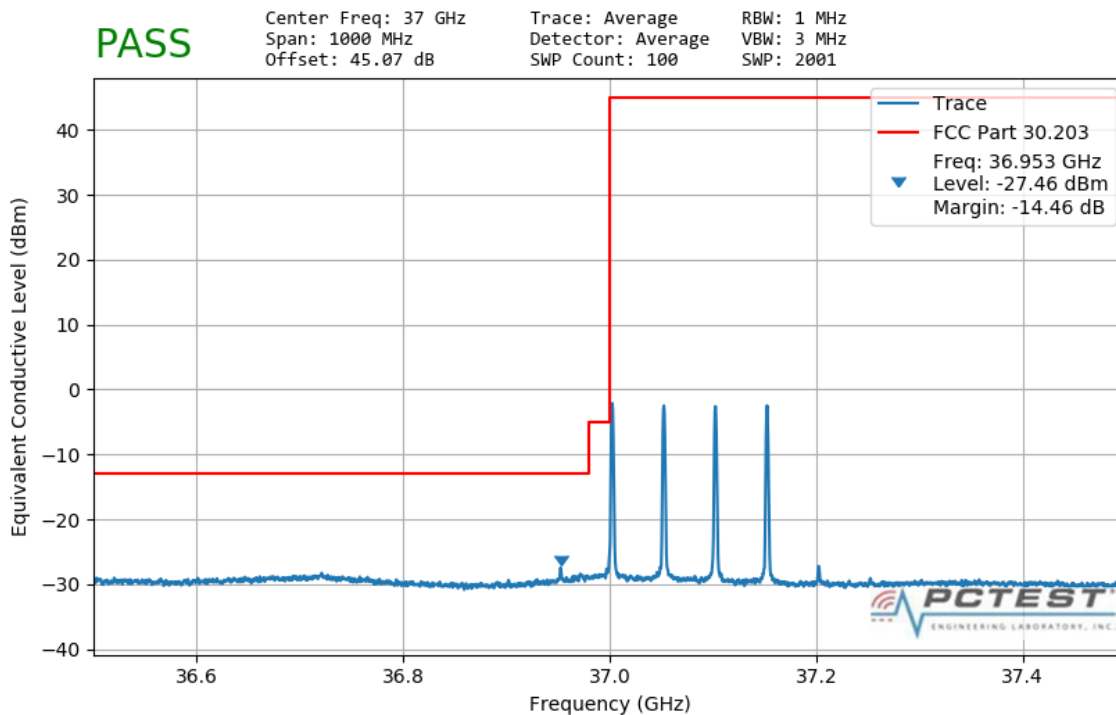
Plot 7-299. Band Edge Plot (4CC 50M 64QAM Hi Channel – 1 RB 0 offset)



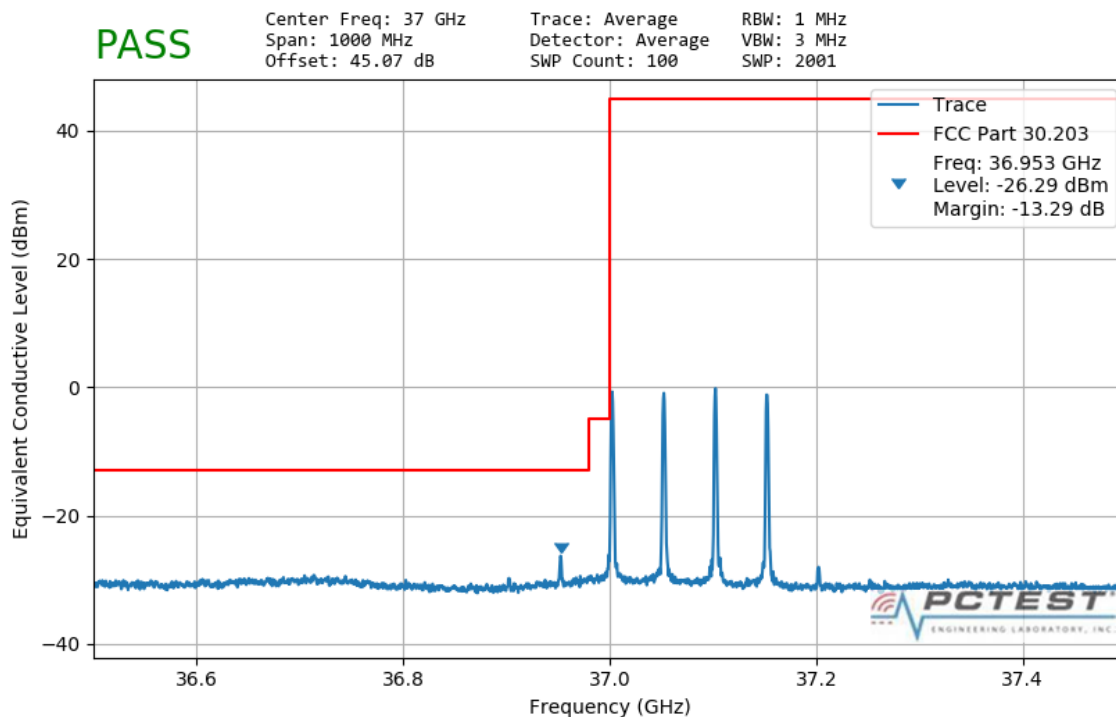
Plot 7-300. Band Edge Plot (4CC 50M QPSK Hi Channel– 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 186 of 202

QTM 1 - H + V

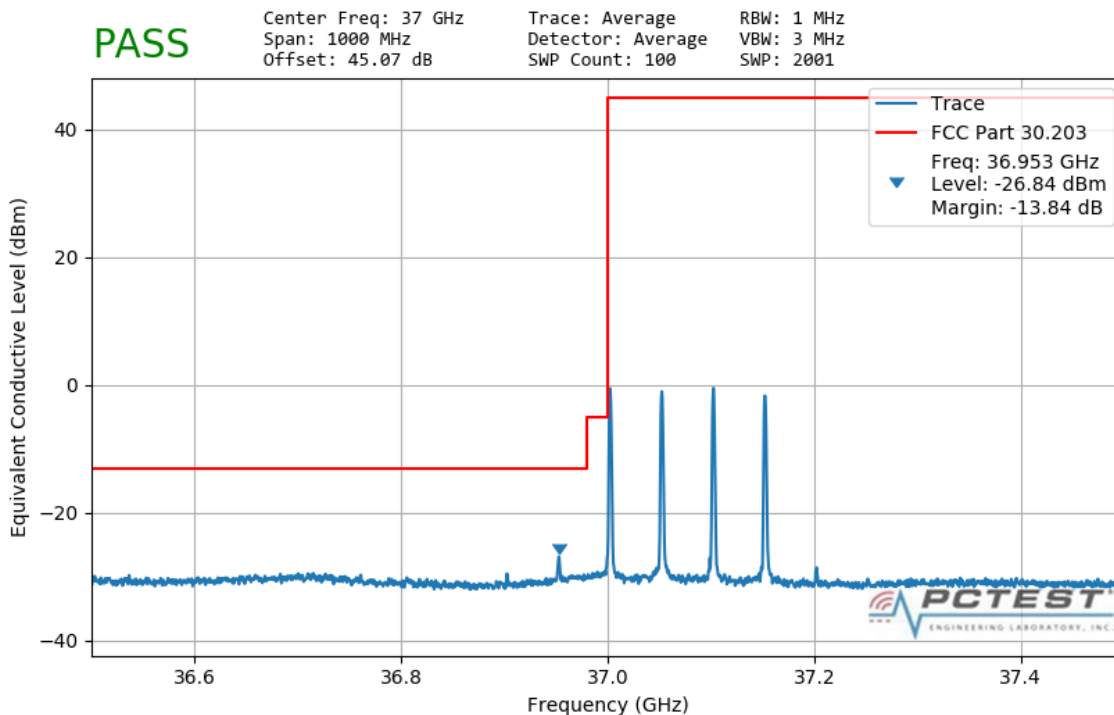


Plot 7-301. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB 0 offset)

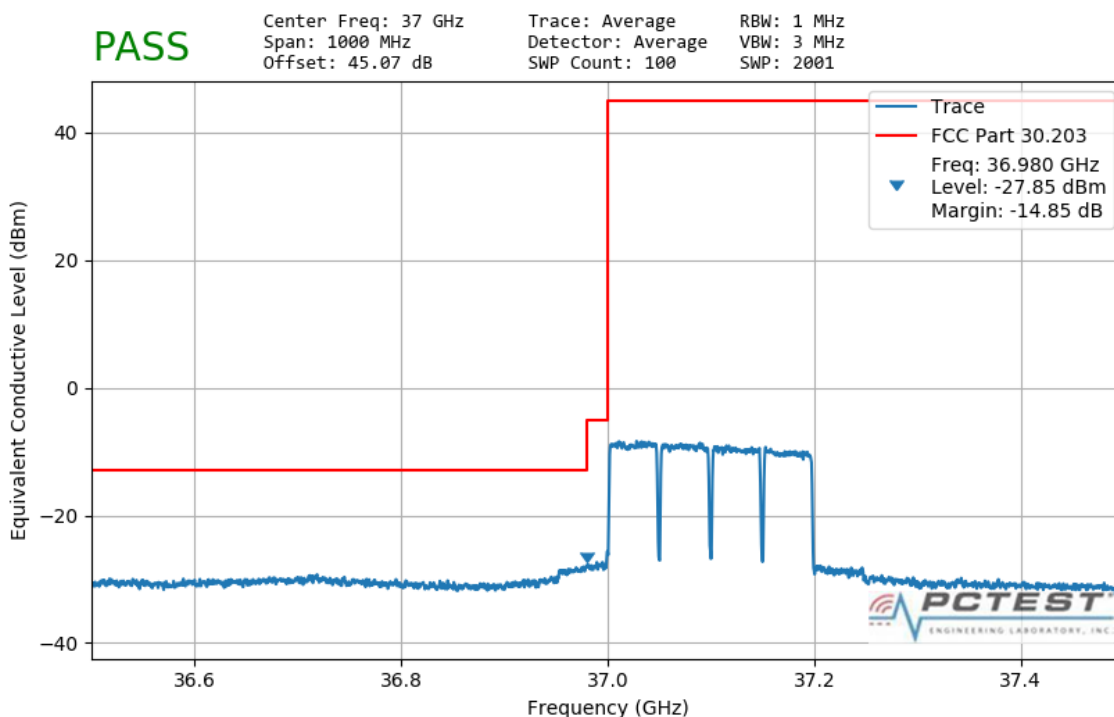


Plot 7-302. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 187 of 202

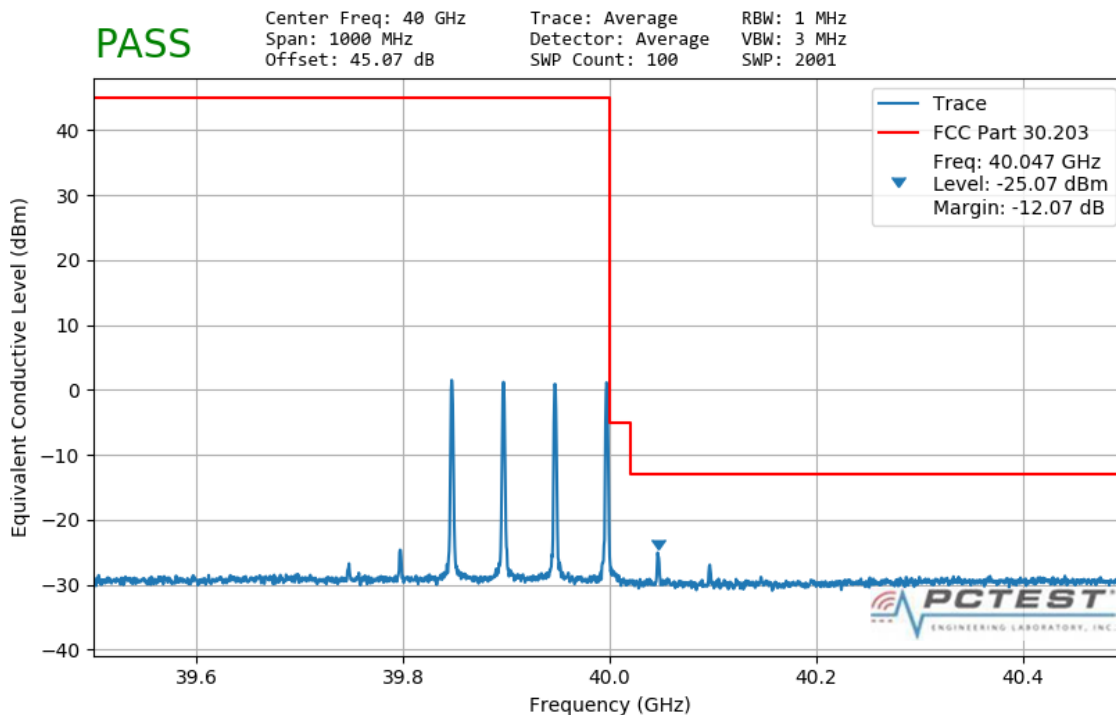


Plot 7-303. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB 0 offset)

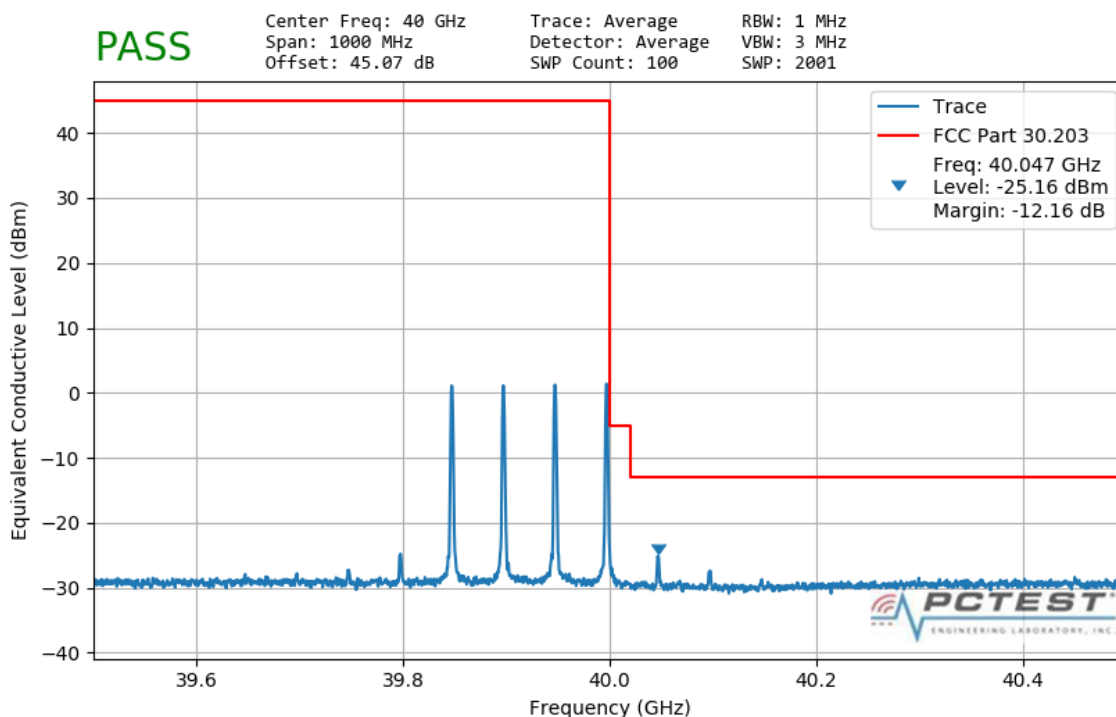


Plot 7-304. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 188 of 202

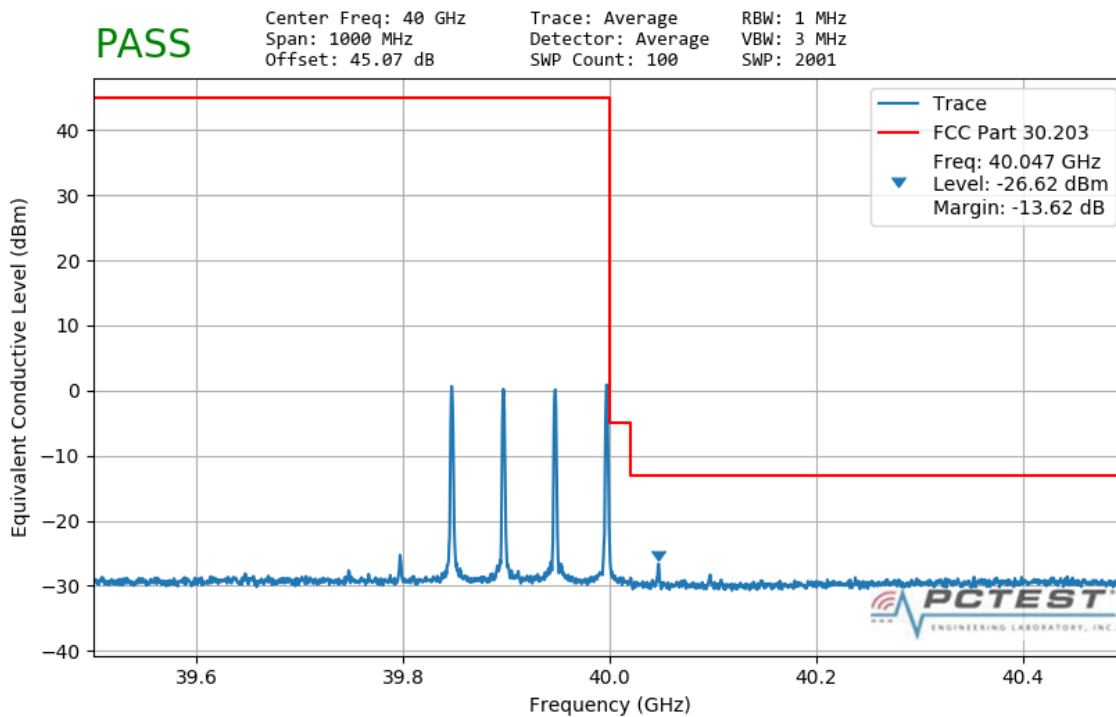


Plot 7-305. Band Edge Plot (4CC 50M QPSK Hi Channel- 1 RB 0 offset)

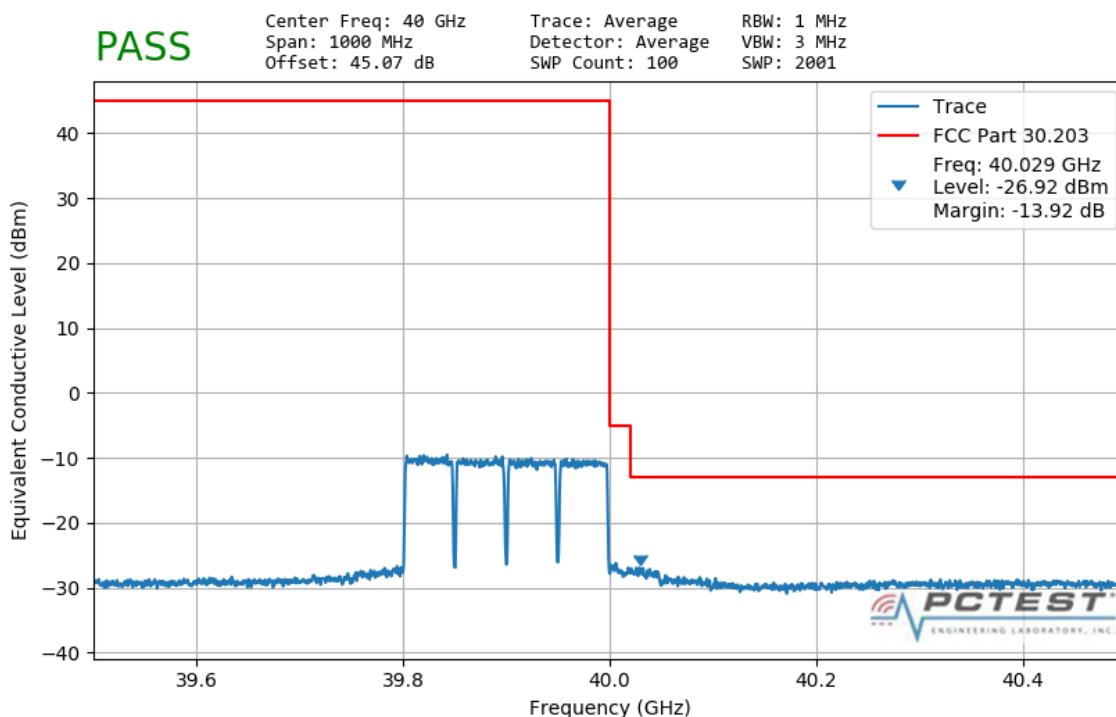


Plot 7-306. Band Edge Plot (4CC 50M 16QAM Hi Channel- 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 189 of 202



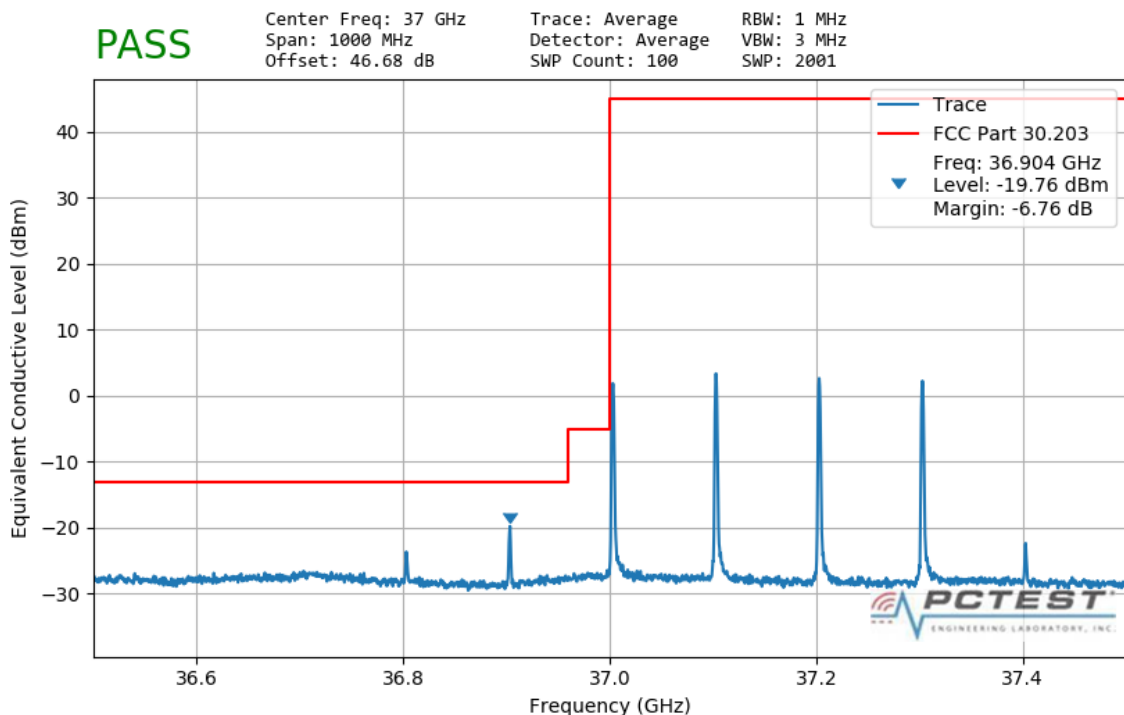
Plot 7-307. Band Edge Plot (4CC 50M 64QAM Hi Channel – 1 RB 0 offset)



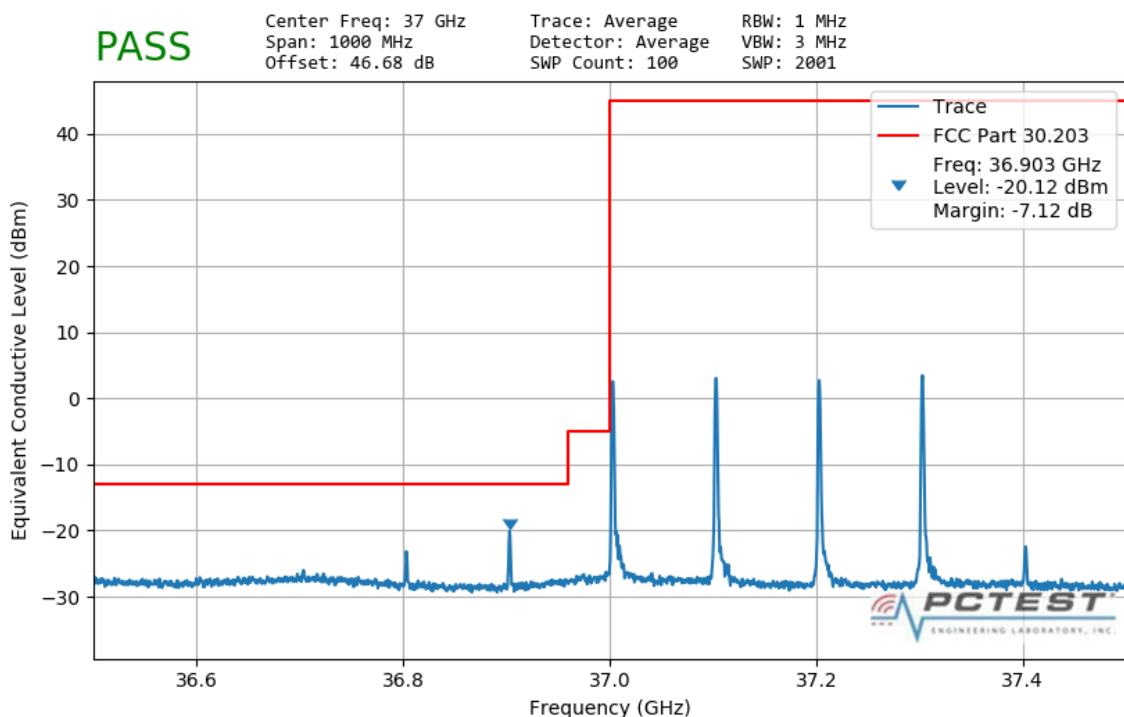
Plot 7-308. Band Edge Plot (4CC 50M QPSK Hi Channel– 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 190 of 202

7.5.9 N260 4CC 100MHz Bandwidth Band Edges QTM 0 - H + V

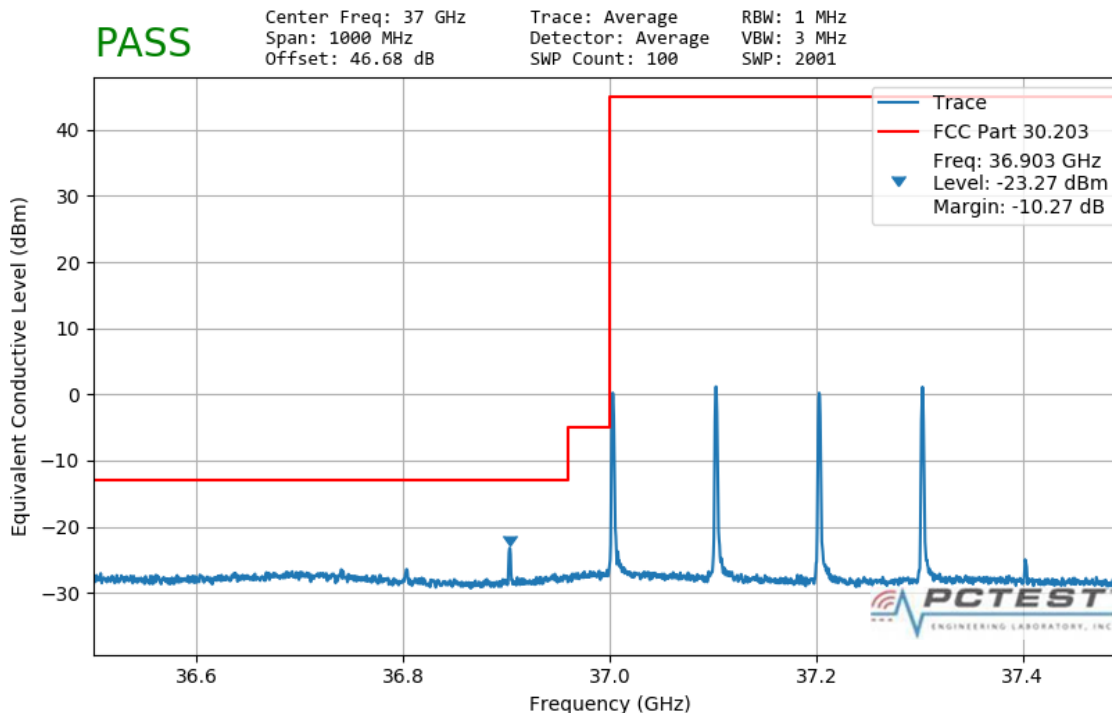


Plot 7-309. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB 0 offset)

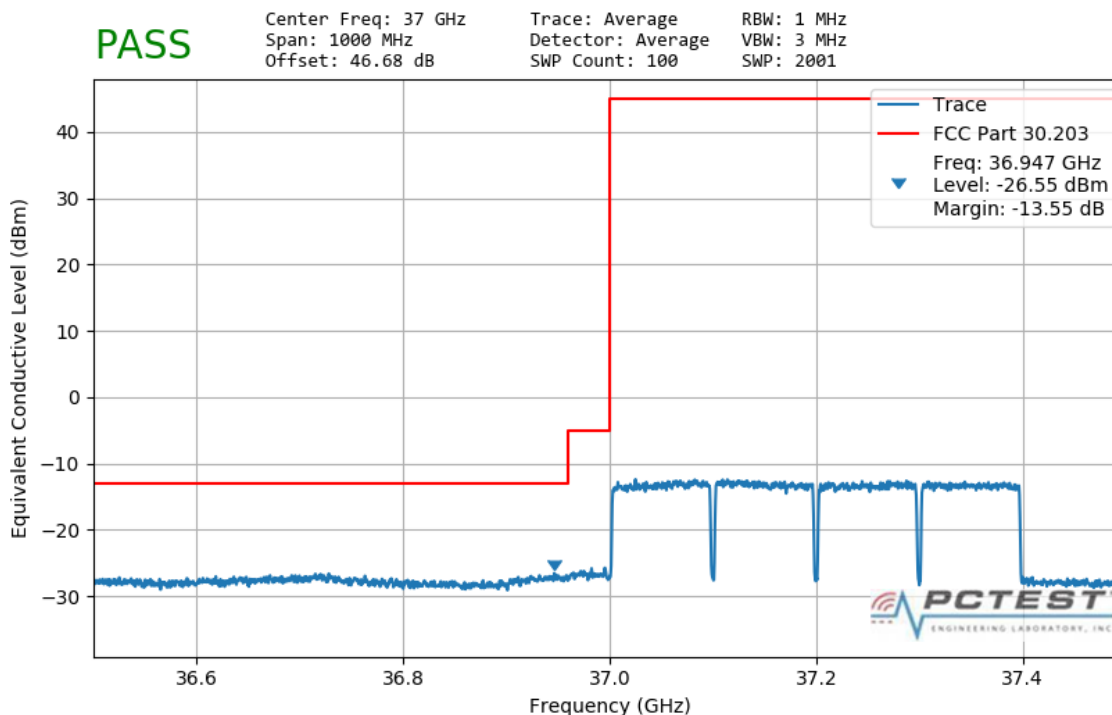


FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 191 of 202

Plot 7-310. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB 0 offset)

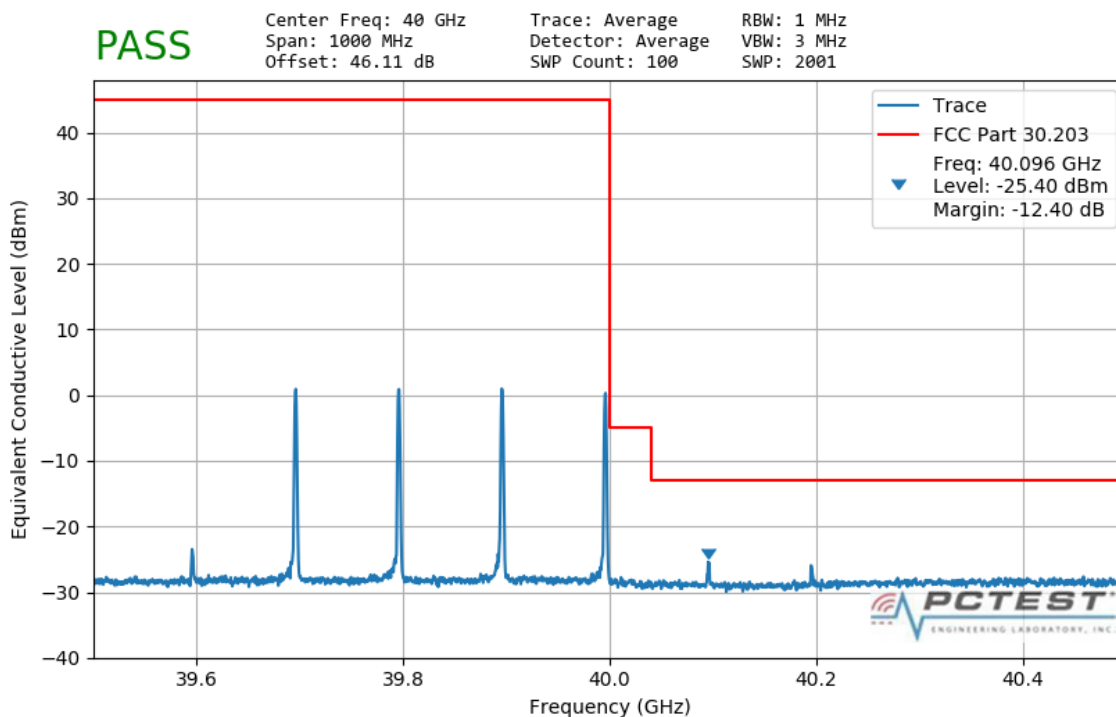


Plot 7-311. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB 0 offset)

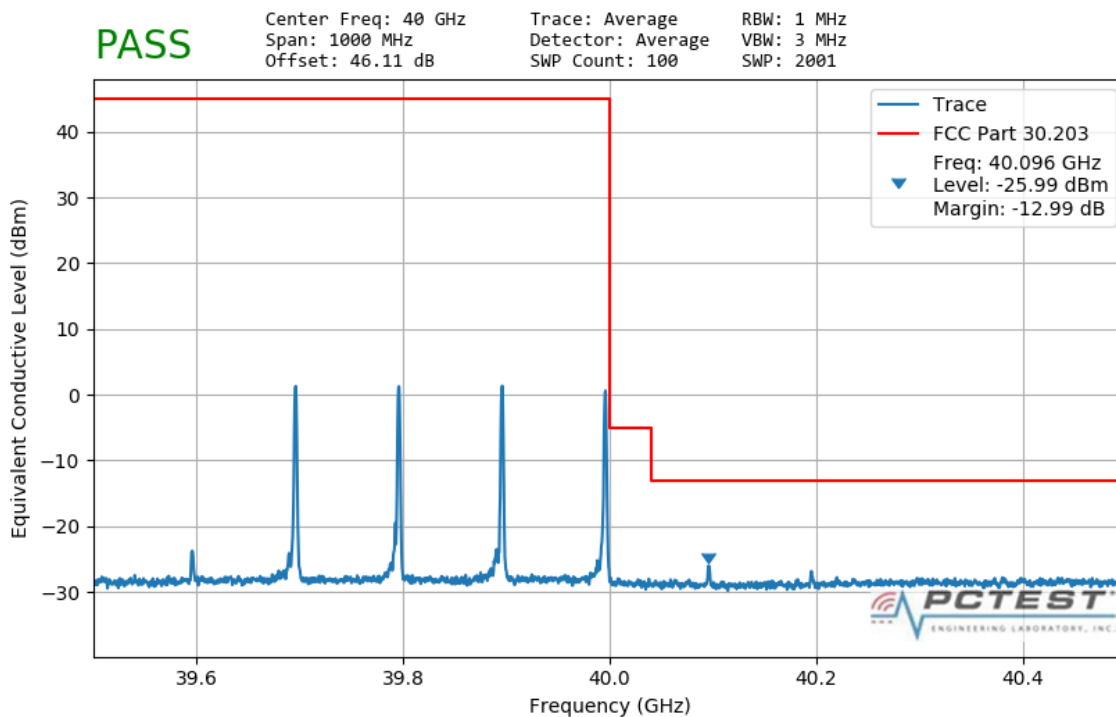


Plot 7-312. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 192 of 202

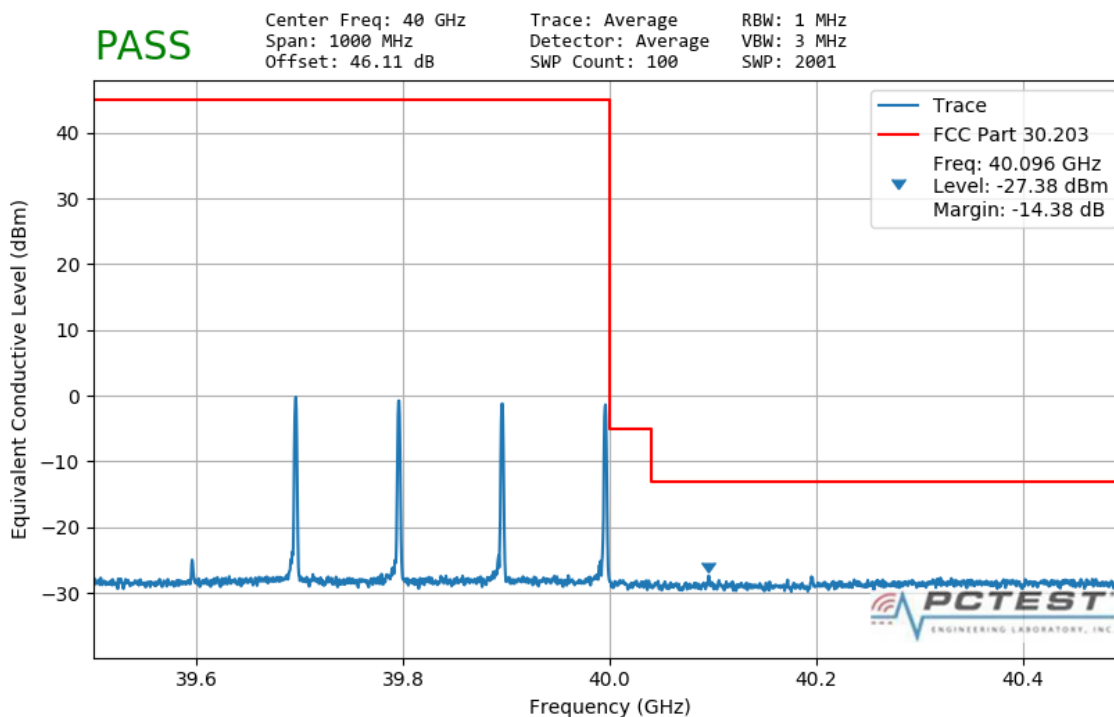


Plot 7-313. Band Edge Plot (4CC 100M QPSK Hi Channel- 1 RB 65 offset)

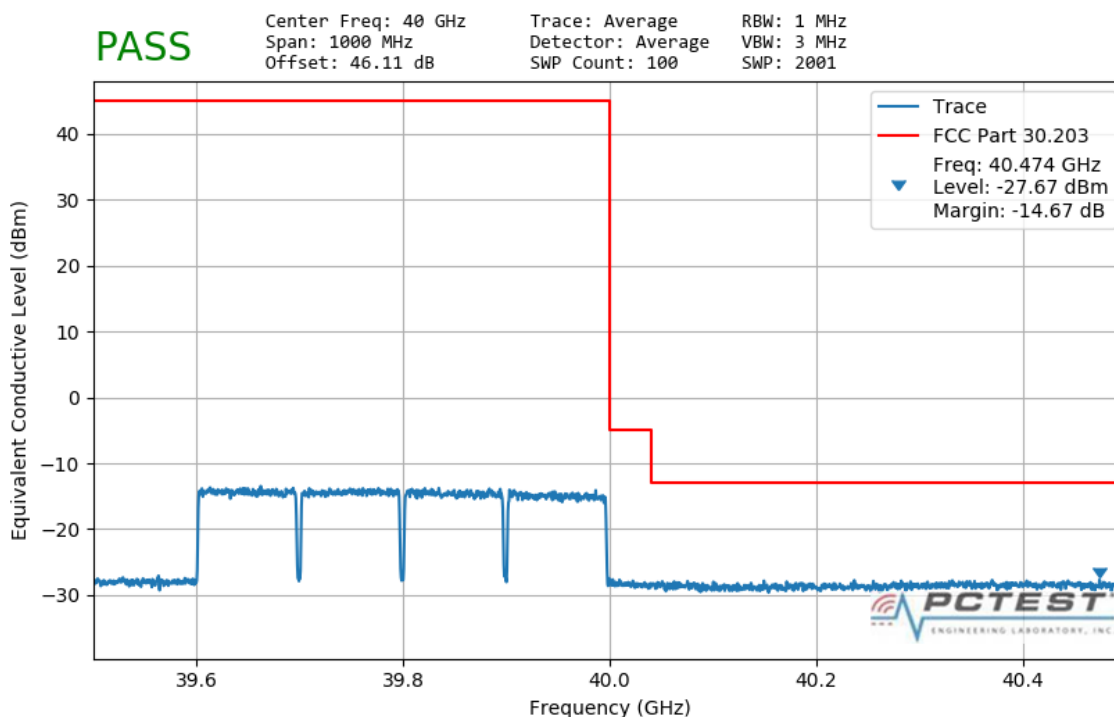


Plot 7-314. Band Edge Plot (4CC 100M 16QAM Hi Channel- 1 RB 65 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 193 of 202



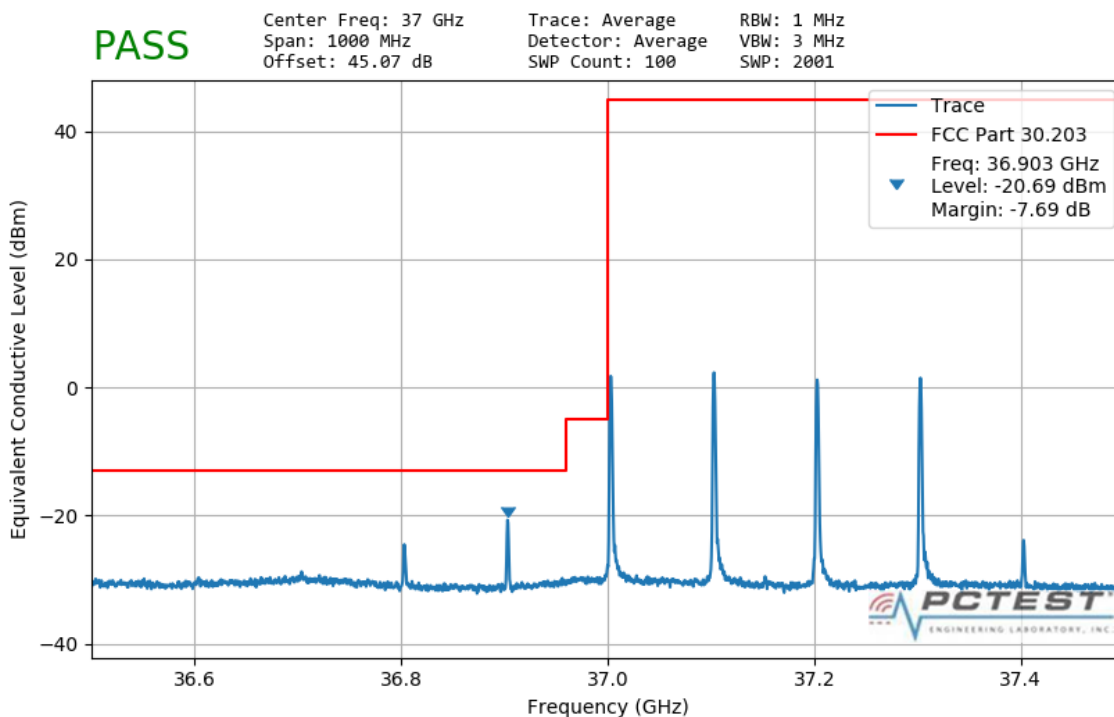
Plot 7-315. Band Edge Plot (4CC 100M 64QAM Hi Channel – 1 RB 65 offset)



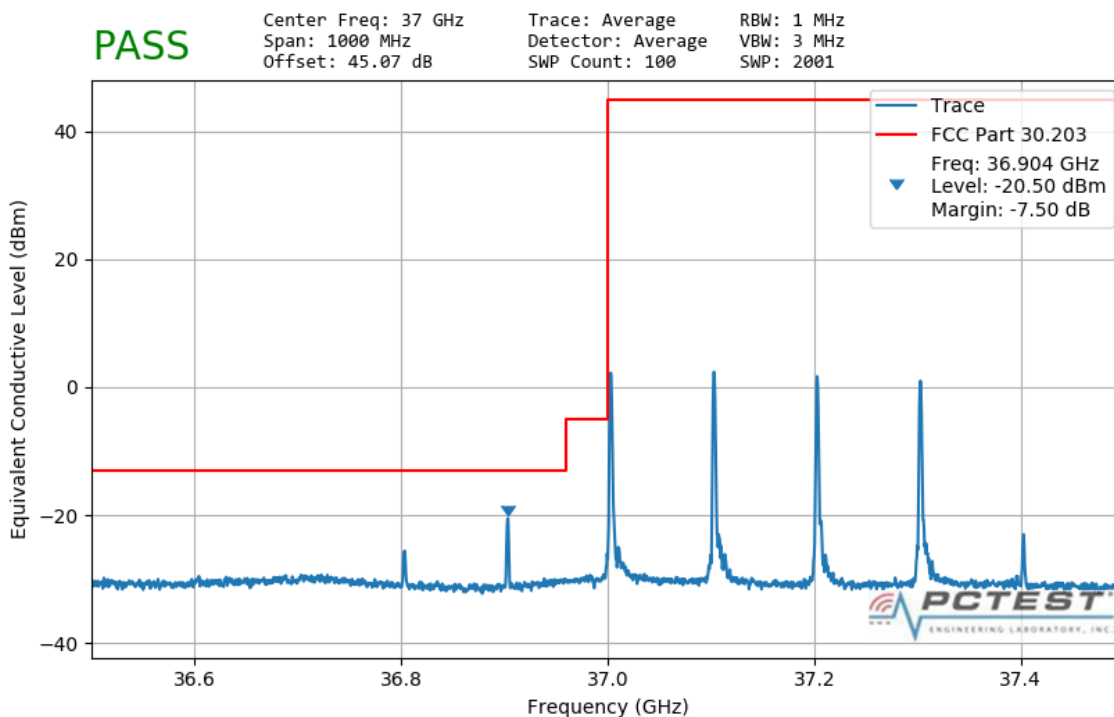
Plot 7-316. Band Edge Plot (4CC 100M QPSK Hi Channel- 66 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 194 of 202

QTM 1 - H + V

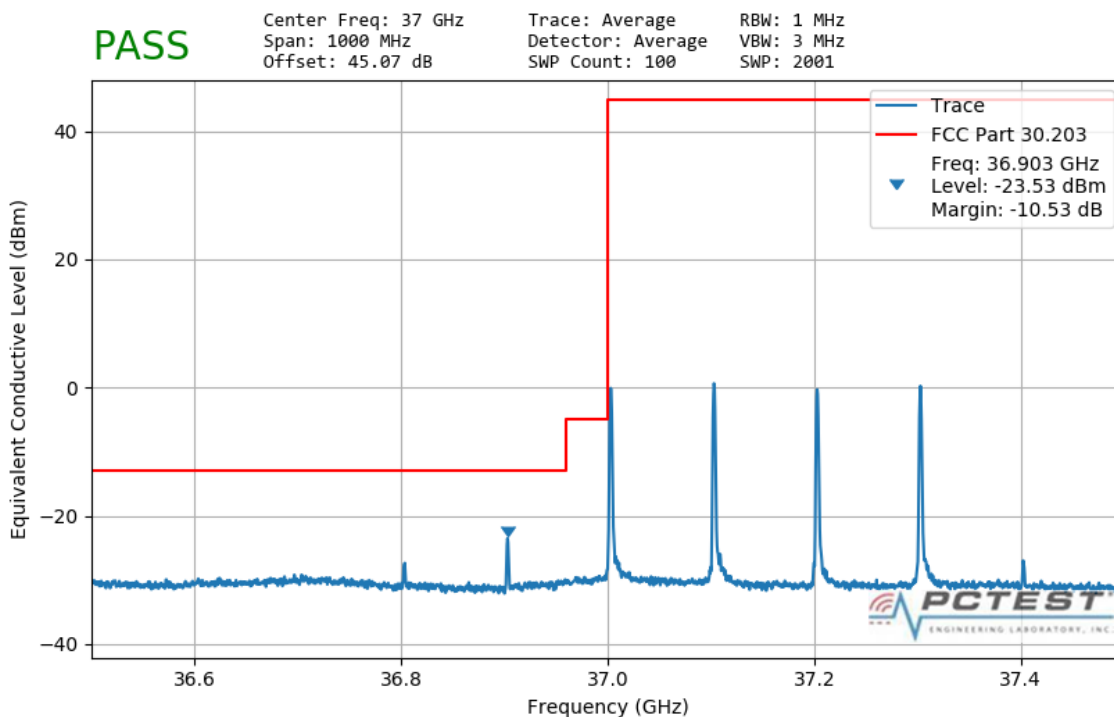


Plot 7-317. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB 0 offset)

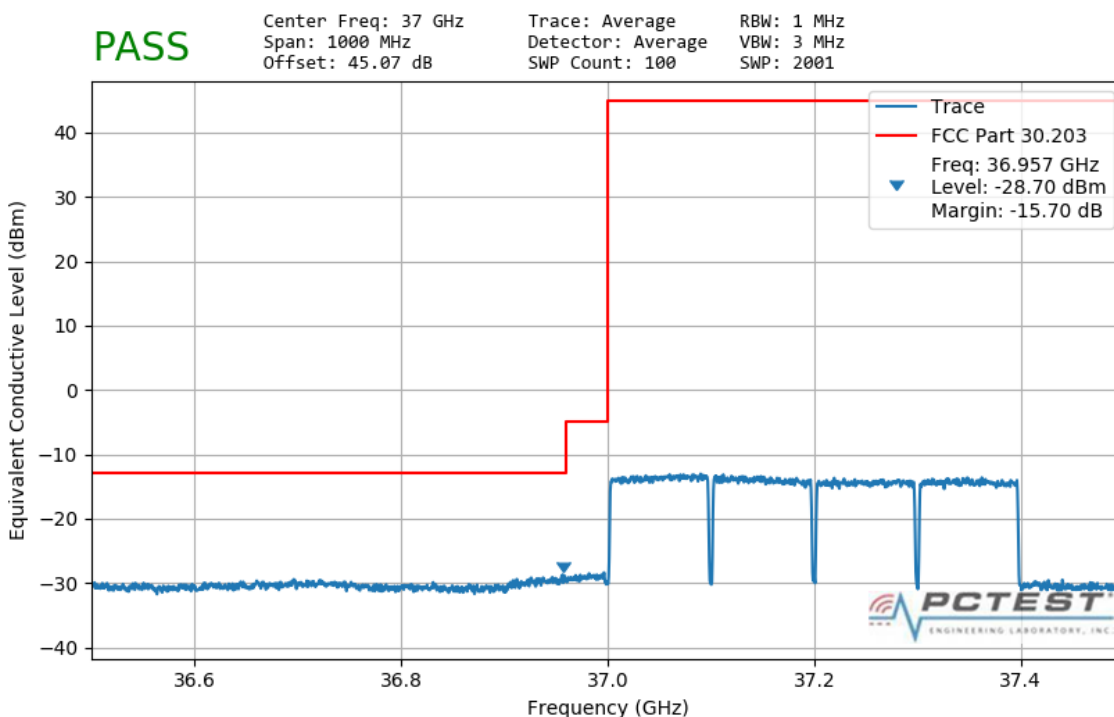


Plot 7-318. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 195 of 202

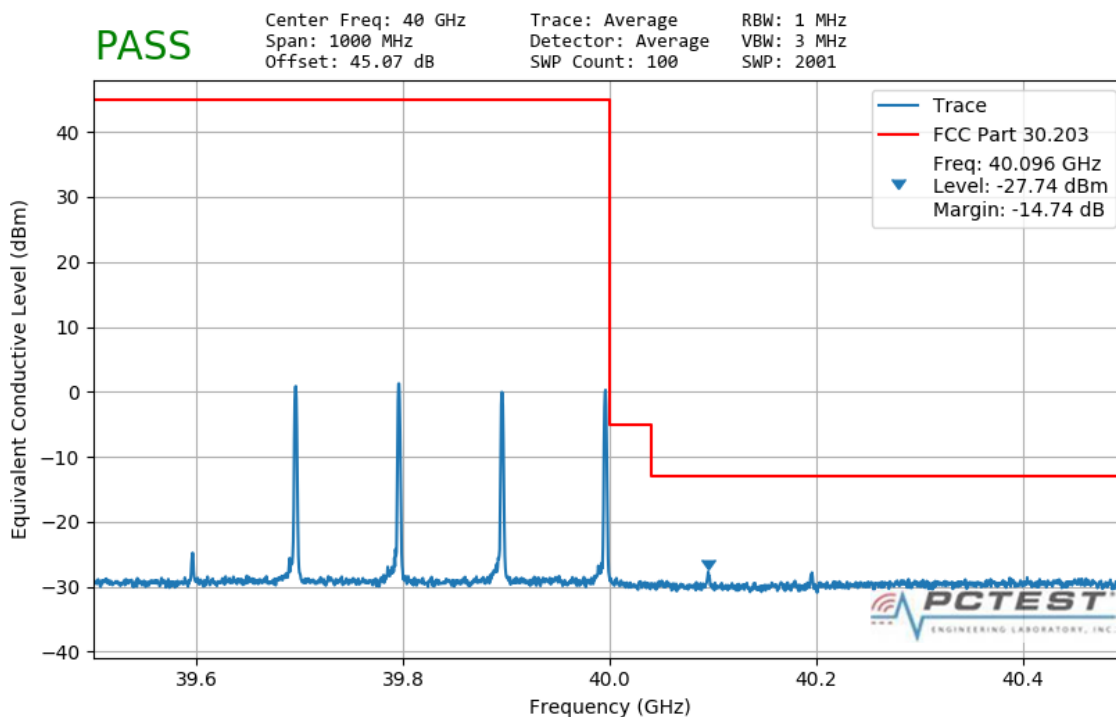


Plot 7-319. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB 0 offset)

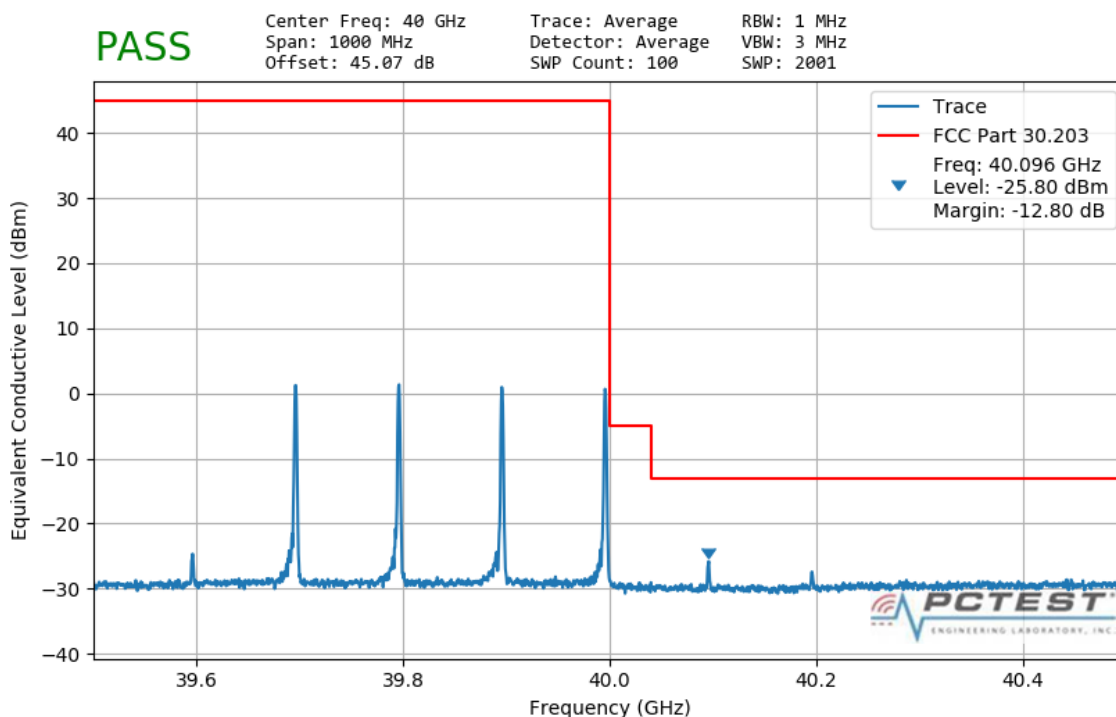


Plot 7-320. Band Edge Plot (4CC 100M QPSK Low Channel – 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 196 of 202

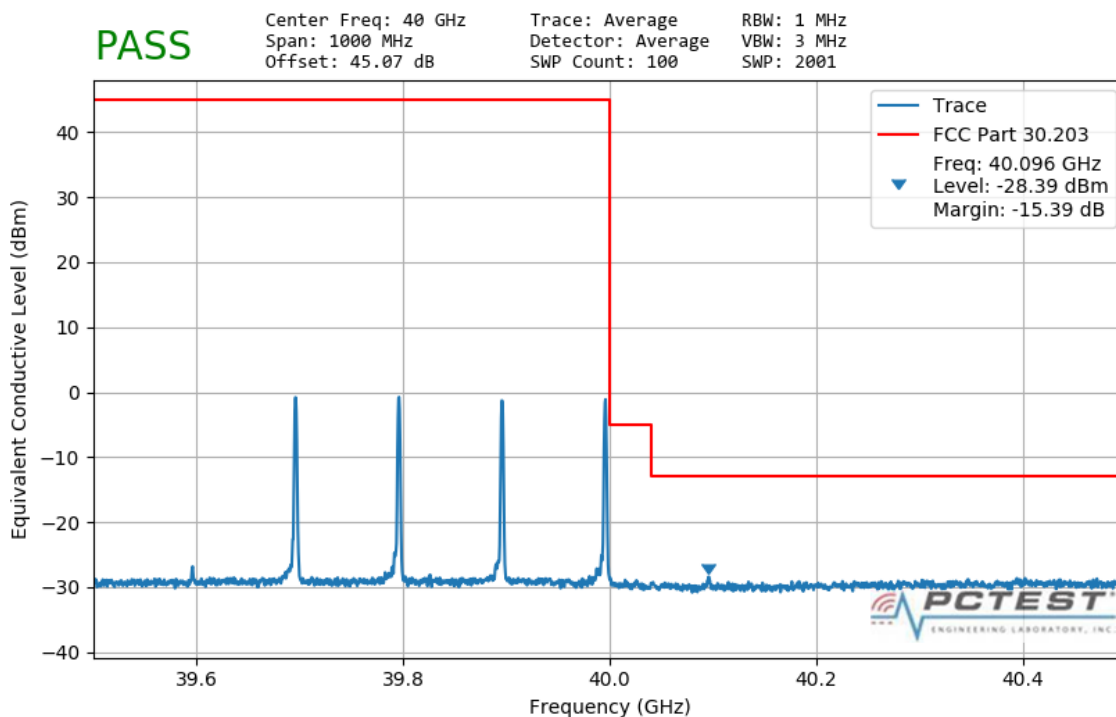


Plot 7-321. Band Edge Plot (4CC 100M QPSK Hi Channel– 1 RB 0 offset)

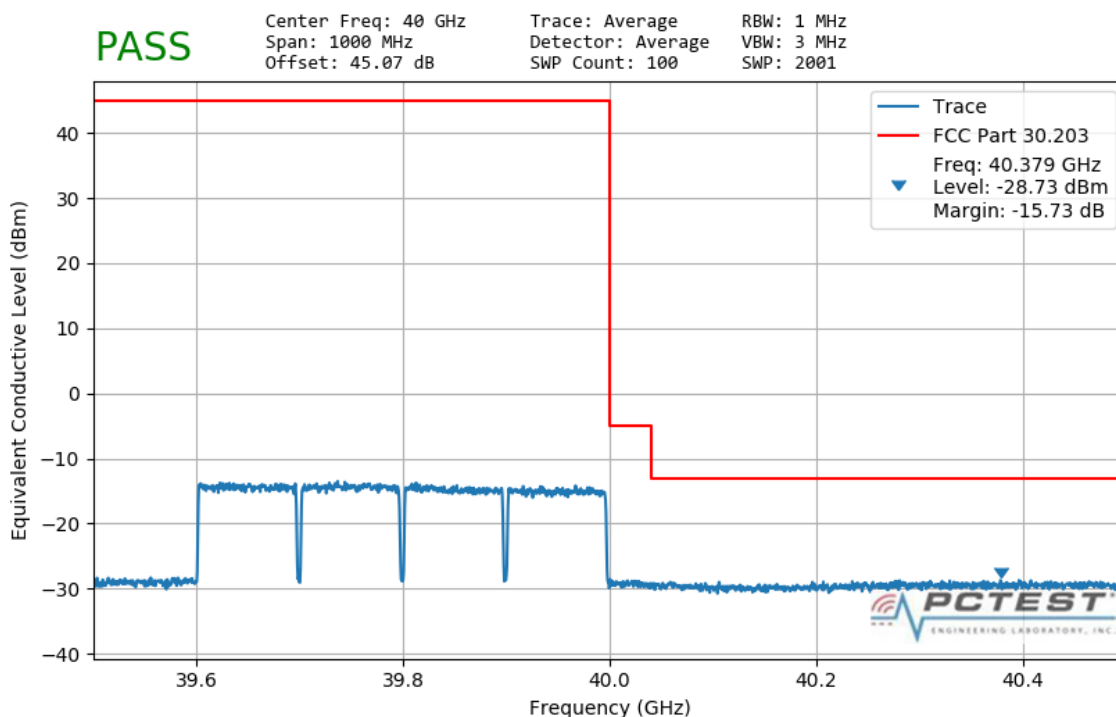


Plot 7-322. Band Edge Plot (4CC 100M 16QAM Hi Channel– 1 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 197 of 202



Plot 7-323. Band Edge Plot (4CC 100M 64QAM Hi Channel – 1 RB 0 offset)



Plot 7-324. Band Edge Plot (4CC 100M QPSK Hi Channel- 32 RB 0 offset)

FCC ID: ZNFV450VM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	LG	Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 198 of 202

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFV450VM** complies with all the requirements of Part 30.

FCC ID: ZNFV450VM		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 199 of 202

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V1.0

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9.0 APPENDIX A

9.1 Virginia Diodes Mixer Verification Certificate



Virginia Diodes, Inc

Certificate of Conformance

To: PCTEST Engineering Laboratory
6660-B Dobbin Road
Columbia, MD 21045
United States

From: Virginia Diodes, Inc

Packing List No: 181177
Shipping Date: 05/14/18

Today's Date: 05/14/18
PO Number: 180416.DP1R

Attention: Yelena Wedekind
Phone: 410-290-6652

Quantity	Unit	Description	Order-Job Number
1	EA	VDIWR12.0SAX WR12SAX - Spectrum Analyzer Extension Module / SN: SAX 252	18171A-01

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

Page 1 of 1

FCC ID: ZNFV450VM		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 200 of 202



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

Packing List No: 181120
Shipping Date: 05/08/18

Today's Date: 05/08/18
PO Number: 180416.DP1R

Attn: Yelena Wedekind

Phone: 1-410-290-6652

Quantity	Shipped	Unit	Description	Order-Job Number
1	EA	VDIWR8.0SAX	WR8.0SAX - Spectrum Analyzer Extension Module; SN: SAX 253.	18171B-01

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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FCC ID: ZNFV450VM		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 201 of 202



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

Packing List No: 181247
Shipping Date: 05/21/18

Today's Date: 05/22/18
PO Number: 180416.DP1R

Attn: Yelena Wedekind

Phone: 1-410-290-6652

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR5.1SAX WR5.1SAX - Spectrum Analyzer Extension Module; SN: SAX 254.	18171C-01

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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FCC ID: ZNFV450VM		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Quality Manager
Test Report S/N: 1M1903070034-14-R2.ZNF	Test Dates: 3/21/2019-5/3/2019	EUT Type: Portable Handset		Page 202 of 202