

FCC Test Report

FCC ID : ARA-CPE12000PRO3X
Equipment : CPE12000SG-PRO-1D-3.X
Model No. : WLTGG-122
Brand Name : Telrad
Applicant : Telrad Networks Ltd
Address : Industrial Center. PO Box 6118, Lod, 711600,
Israel
Standard : 47 CFR FCC Part 96
Type : End User Device
 Category A CBSD
 Category B CBSD
 CPE-CBSD
Received Date : Sep. 23, 2019
Tested Date : Sep. 23 ~ Sep. 26, 2019

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	9
1.3	Test Setup Chart	9
1.4	The Equipment List	10
1.5	Test Standards	11
1.6	Deviation from Test Standard and Measurement Procedure.....	11
1.7	Measurement Uncertainty	12
2	TEST CONFIGURATION	13
2.1	Testing Condition and Location Information.....	13
2.2	The Worst Test Modes and Channel Details	13
3	TEST RESULTS.....	15
3.1	Output Power.....	15
3.2	Radiated Emissions.....	54
3.3	Conducted Emissions & Band Edge	63
3.4	Emission Bandwidth	81
3.5	Peak to Average Ratio	100
3.6	Frequency Stability.....	115
3.7	Reception Limits.....	121
4	TEST LABORATORY INFORMATION	125

Release Record

Report No.	Version	Description	Issued Date
FG992303	Rev. 01	Initial issue	Oct. 31, 2019
FG992303	Rev. 02	Adding eirp limit and description of duty factor	May 13, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 96.41(b)	Maximum RF Power Output EIRP	Power[dBm/10MHz]: 37.28	Pass
96.41(b)	Maximum Power Spectral Density	Meet the requirement of limit	Pass
96.41(g)	Peak to Average Ratio	Meet the requirement of limit	Pass
2.1053 / 96.41(e)	Radiated Spurious Emission	Meet the requirement of limit	Pass
2.1051 / 96.41(e)	Conducted Spurious Emission	Meet the requirement of limit	Pass
2.1051 / 96.41(e)	Band Edge	Meet the requirement of limit	Pass
2.1049	Emission Bandwidth	Meet the requirement of limit	Pass
2.1055	Frequency Stability	Meet the requirement of limit	Pass
96.41(f)	Reception Limits	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Band	Band 48 Channel Bandwidth: 10MHz: 3555.0 MHz ~ 3695.0 MHz Channel Bandwidth: 20MHz: 3560.0 MHz ~ 3690.0 MHz
Modulation Type	QPSK, 16QAM, 64QAM (Uplink) QPSK, 16QAM, 64QAM, 256QAM (Downlink)
Duplex Mode	TDD
UE Category	Cat. 12
Release	12
TX/RX function	2TX / 4RX
CA Type	Intra-Band Non-Contiguous CA

1.1.2 Antenna Details

Ant.	Type	Connector	Gain (dBi)	Remark	Antenna Polarization
1	Patch	UFL	12.77	A1 (Black) (TX)	+ 45 degree
2	Patch	UFL	12.34	A2 (Blue) (TX)	- 45 degree
3	Patch	UFL	12.51	A3 (Blue)	- 45 degree
4	Patch	UFL	12.77	A4 (Black)	+ 45 degree

1.1.3 EUT Operational Condition

Supply Voltage	56Vdc from POE		
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (55°C)	<input checked="" type="checkbox"/> Tmin (-40°C)

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	POE	Brand: SHENZHEN FRECOM Model: PGOC24D01-560027 I/P: 100-240Vac, 50/60Hz, 0.7A Max O/P: 56Vdc, 0.27A Power cord: 0.72m non-shielded without core
2	RJ45 cable (E354598)	Brand: EKSON Model: P01-C001 1.5m non-shielded without core
3	RJ45 cable (E315882)	Brand: TUNG-LI Model: 5U422-20 1.5m non-shielded without core

1.1.5 Maximum EIRP and Emission Designator

CDD Mode			
Channel Bandwidth (MHz)	Modulation	Maximum EIRP (W)	Emission Designator
10	QPSK	5.346	8M94G7D
10	16QAM	4.207	8M95W7D
10	64QAM	3.365	8M94W7D
20	QPSK	5.534	17M9G7D
20	16QAM	4.345	17M8W7D
20	64QAM	3.483	17M8W7D

CA Mode			
Channel Bandwidth (MHz)	Modulation	Maximum EIRP (W)	Emission Designator
10+10	QPSK	2.500	17M9G7D
10+10	16QAM	2.512	17M9W7D
10+10	64QAM	2.523	17M8W7D
10+20	QPSK	2.477	26M8G7D
10+20	16QAM	2.460	26M8W7D
10+20	64QAM	2.455	26M7W7D
20+10	QPSK	2.460	26M8G7D
20+10	16QAM	2.455	26M8W7D
20+10	64QAM	2.472	26M7W7D
20+20	QPSK	2.404	35M7G7D
20+20	16QAM	2.415	35M7W7D
20+20	64QAM	2.432	35M7W7D

1.1.6 Operating Channel List

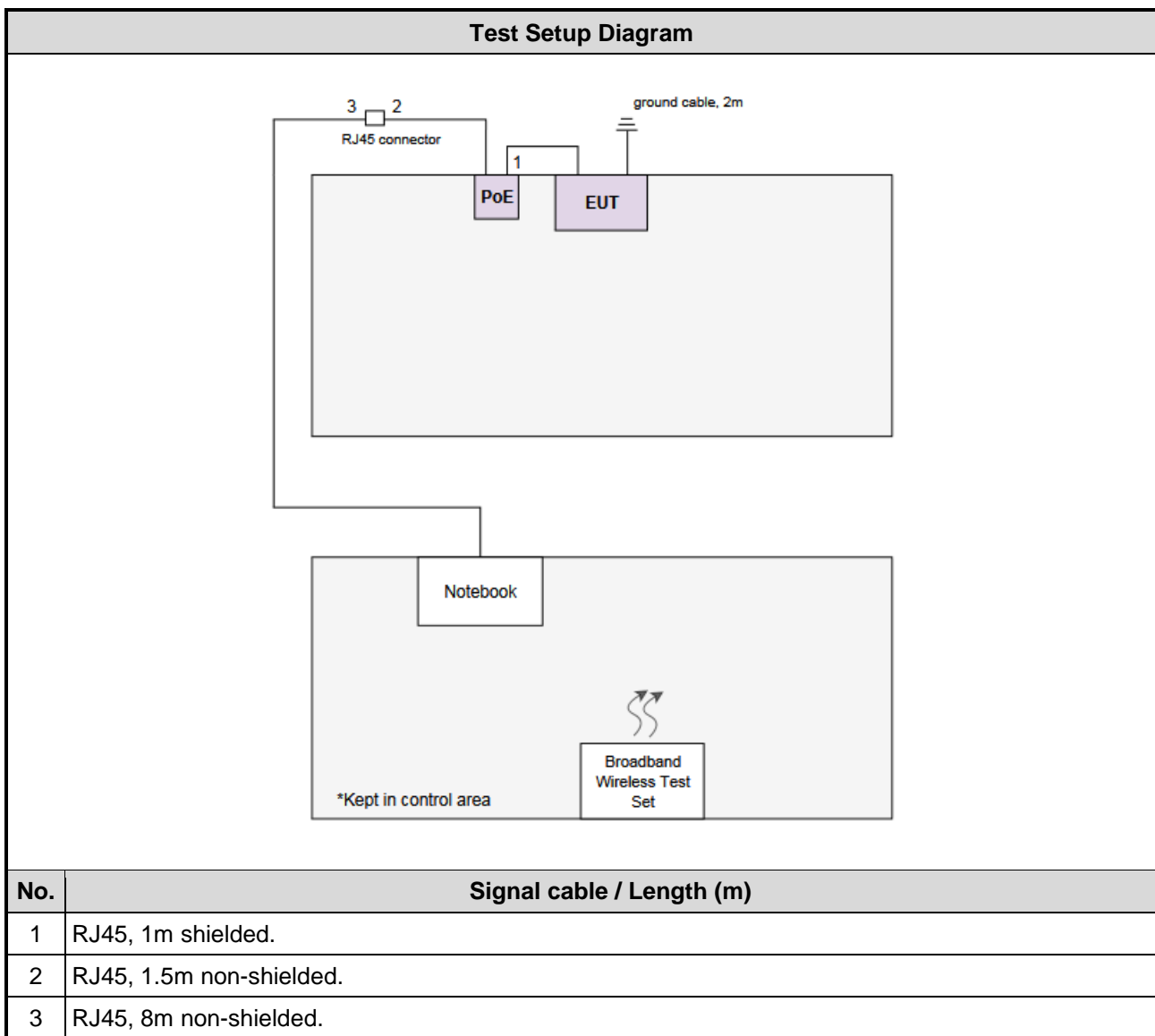
CDD Mode		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
10	55290	3555.0
10	55990	3625.0
10	56690	3695.0
20	55340	3560.0
20	55990	3625.0
20	56640	3690.0

CA Mode		
Channel Bandwidth (MHz)	Test Channel	Frequency (MHz)
10+10	55290+56690	3555.0+3695.0
10+20	55290+56640	3555.0+3690.0
20+10	55340+56690	3560.0+3695.0
20+20	55340+56640	3560.0+3690.0

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Broadband Wireless Test Set	keysight	E7515A	TH56180215	Dec. 19, 2018	Dec. 18, 2019
Spectrum Analyzer	R&S	FSV40	101498	Dec. 27, 2018	Dec. 26, 2019
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 18, 2018	Dec. 17, 2019
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 04, 2018	Oct. 03, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 08, 2018	Oct. 07, 2019
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 08, 2018	Oct. 07, 2019
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 08, 2018	Oct. 07, 2019
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 08, 2018	Oct. 07, 2019
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Broadband Wireless Test Set	keysight	E7515A	TH56180215	Dec. 19, 2018	Dec. 18, 2019
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
Spectrum Analyzer	R&S	FSV40	101499	Jan. 07, 2019	Jan. 06, 2020
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 05, 2018	Dec. 04, 2019
Power Meter	Anritsu	ML2495A	1241002	Oct. 09, 2018	Oct. 08, 2019
Power Sensor	Anritsu	MA2411B	1207366	Oct. 09, 2018	Oct. 08, 2019
Signal Generator	R&S	SMB100A	175727	Dec. 24, 2018	Dec. 23, 2019
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	Apr. 21, 2019	Apr. 20, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Nov. 29, 2018	Nov. 28, 2019
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 96

ANSI C63.4-2014

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Conducted emission	± 2.715 dB
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF Conducted	TH01-WS	23°C / 67%	Aska Huang
Radiated Emissions	03CH01-WS	25°C / 67%	Aska Huang

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

CDD Mode			
Test item	Channel Bandwidth	Modulation	Test channel (MHz)
Equivalent Isotropically Radiated Power	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Maximum Power Spectral Density	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Radiated Emissions ≤ 1GHz	10MHz	QPSK	3625.0
	20MHz	QPSK	3625.0
Radiated Emissions > 1GHz	10MHz	QPSK	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK	3560.0 / 3625.0 / 3690.0
Conducted Emissions	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Band Edge	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Emission Bandwidth	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Peak to Average Ratio	10MHz	QPSK / 16QAM / 64QAM	3555.0 / 3625.0 / 3695.0
	20MHz	QPSK / 16QAM / 64QAM	3560.0 / 3625.0 / 3690.0
Frequency Stability	10MHz	Un-modulation	3625.0
	20MHz	Un-modulation	3625.0
Reception Limits	10MHz	QPSK	3625.0
	20MHz	QPSK	3625.0

CA Mode			
Test item	Channel Bandwidth	Modulation	Test channel (MHz)
Equivalent Isotropically Radiated Power Peak EIRP Power Density	10MHz+10MHz	QPSK / 16QAM / 64QAM	3555.0+3695.0
	10MHz+20MHz	QPSK / 16QAM / 64QAM	3555.0+3690.0
	20MHz+10MHz	QPSK / 16QAM / 64QAM	3560.0+3695.0
	20MHz+20MHz	QPSK / 16QAM / 64QAM	3560.0+3690.0
Radiated Emission ≤ 1GHz	10MHz+10MHz	64QAM	3555.0+3695.0
	10MHz+20MHz	64QAM	3555.0+3690.0
	20MHz+10MHz	64QAM	3560.0+3695.0
	20MHz+20MHz	64QAM	3560.0+3690.0
Radiated Emission > 1GHz	10MHz+10MHz	64QAM	3555.0+3695.0
	10MHz+20MHz	64QAM	3555.0+3690.0
	20MHz+10MHz	64QAM	3560.0+3695.0
	20MHz+20MHz	64QAM	3560.0+3690.0
Conducted Emissions Emission Mask 26dBc Bandwidth	10MHz+10MHz	QPSK / 16QAM / 64QAM	3555.0+3695.0
	10MHz+20MHz	QPSK / 16QAM / 64QAM	3555.0+3690.0
	20MHz+10MHz	QPSK / 16QAM / 64QAM	3560.0+3695.0
	20MHz+20MHz	QPSK / 16QAM / 64QAM	3560.0+3690.0
Frequency Stability	10MHz+10MHz	Un-modulation	3555.0+3695.0
	10MHz+20MHz		3555.0+3690.0
	20MHz+10MHz		3560.0+3695.0
	20MHz+20MHz		3560.0+3690.0
Reception Limits	10MHz+10MHz	64QAM	3555.0+3695.0
	10MHz+20MHz	64QAM	3555.0+3690.0
	20MHz+10MHz	64QAM	3560.0+3695.0
	20MHz+20MHz	64QAM	3560.0+3690.0

3 Test Results

3.1 Output Power

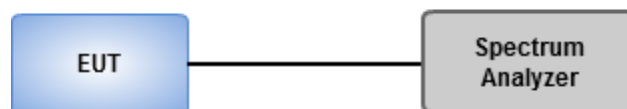
3.1.1 Limit of Output Power

Device	Maximum EIRP (dBm/10MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD	47	37

3.1.2 Test Procedures

1. Connect the transmitter to the spectrum analyzer via coaxial cable (i.e., conducted measurement) while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth.
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to 1 MHz.
5. Set the video bandwidth (VBW) to 3 MHz
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging.
11. Find the maximum trace amplitude (peak search) and record.
12. Using channel power function to integrate output power
13. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
14. Determine the EIRP / Power density by adding the effective antenna gain to the adjusted power level.

3.1.3 Test Setup



3.1.4 Duty Cycle and Duty Factor

Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	QPSK	41.02%	3.87
	16QAM	41.02%	3.87
	64QAM	41.02%	3.87

Note: Duty factor is added in measured output power, power spectral density and spurious emission.

3.1.5 Test Result of EIRP (CDD Mode)

Single-carrier Summary of AV power @10MHz

Mode	Power (dBm)	Power (W)	EIRP (dBm)	EIRP (W)	EIRP Limit (W)
Band 48	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	24.51	0.282	37.28	5.34564	50.12
LTE_10MHz_Nss1,16QAM_2TX	23.47	0.222	36.24	4.20727	50.12
LTE_10MHz_Nss1,64QAM_2TX	22.50	0.178	35.27	3.36512	50.12
LTE_20MHz_Nss1,QPSK_2TX	22.40	0.174	35.17	3.28852	50.12
LTE_20MHz_Nss1,16QAM_2TX	21.35	0.136	34.12	2.58226	50.12
LTE_20MHz_Nss1,64QAM_2TX	20.33	0.108	33.10	2.04174	50.12

Result

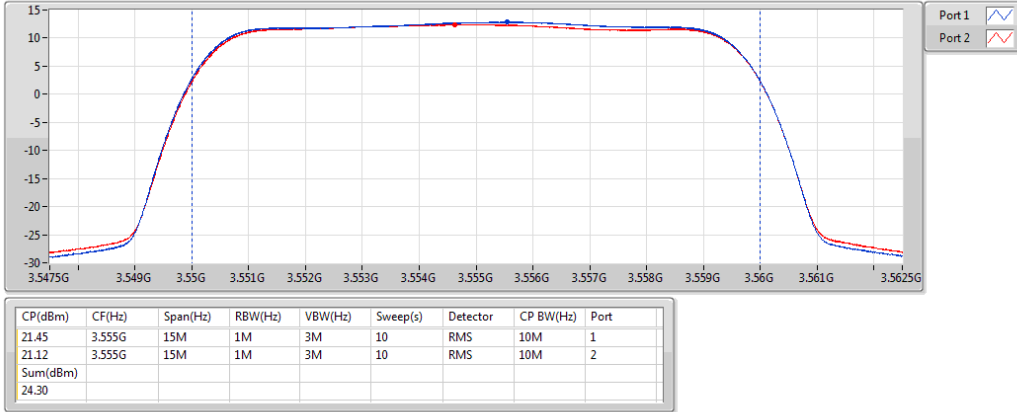
Mode	Result	DG (dBi)	Port 1 (dBm/10MHz)	Port 2 (dBm/10MHz)	Power (dBm/10MHz)	EIRP (dBm/10MHz)	EIRP Lim. (dBm/10MHz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	12.77	21.45	21.12	24.3	37.07	47
3625MHz_QPSK_RB 50,#RB 0	Pass	12.77	21.4	21.6	24.51	37.28	47
3695MHz_QPSK_RB 50,#RB 0	Pass	12.77	21.45	21.41	24.44	37.21	47
3555MHz_16QAM_RB 50,#RB 0	Pass	12.77	20.48	20.11	23.31	36.08	47
3625MHz_16QAM_RB 50,#RB 0	Pass	12.77	20.39	20.52	23.47	36.24	47
3695MHz_16QAM_RB 50,#RB 0	Pass	12.77	20.43	20.49	23.47	36.24	47
3555MHz_64QAM_RB 50,#RB 0	Pass	12.77	19.42	19.16	22.3	35.07	47
3625MHz_64QAM_RB 50,#RB 0	Pass	12.77	19.31	19.65	22.49	35.26	47
3695MHz_64QAM_RB 50,#RB 0	Pass	12.77	19.42	19.56	22.5	35.27	47
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	12.77	19.17	18.92	22.06	34.83	47
3625MHz_QPSK_RB 100,#RB 0	Pass	12.77	19.32	19.45	22.4	35.17	47
3690MHz_QPSK_RB 100,#RB 0	Pass	12.77	19.16	19.4	22.29	35.06	47
3560MHz_16QAM_RB 100,#RB 0	Pass	12.77	18.19	17.85	21.03	33.8	47
3625MHz_16QAM_RB 100,#RB 0	Pass	12.77	18.22	18.46	21.35	34.12	47
3690MHz_16QAM_RB 100,#RB 0	Pass	12.77	18.1	18.41	21.27	34.04	47
3560MHz_64QAM_RB 100,#RB 0	Pass	12.77	17.17	16.88	20.04	32.81	47
3625MHz_64QAM_RB 100,#RB 0	Pass	12.77	17.13	17.51	20.33	33.1	47
3690MHz_64QAM_RB 100,#RB 0	Pass	12.77	17.05	17.46	20.27	33.04	47

DG = Directional Gain; Port n = Port n output power

Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

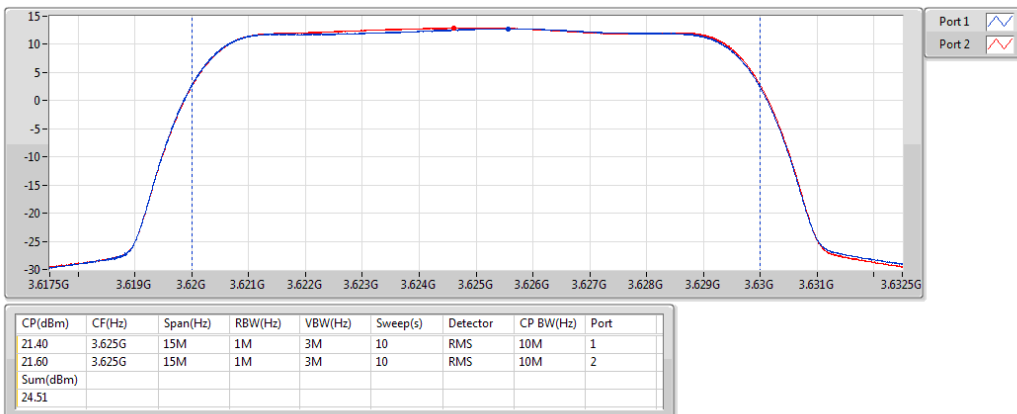
3555MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

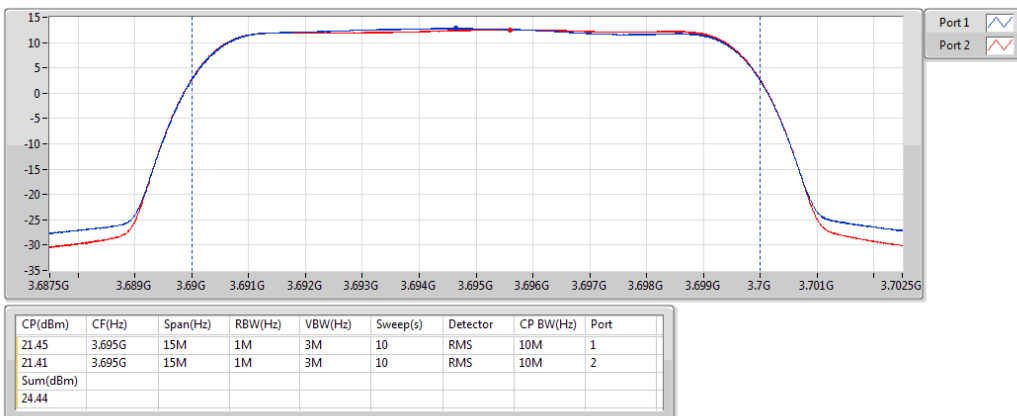
3625MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

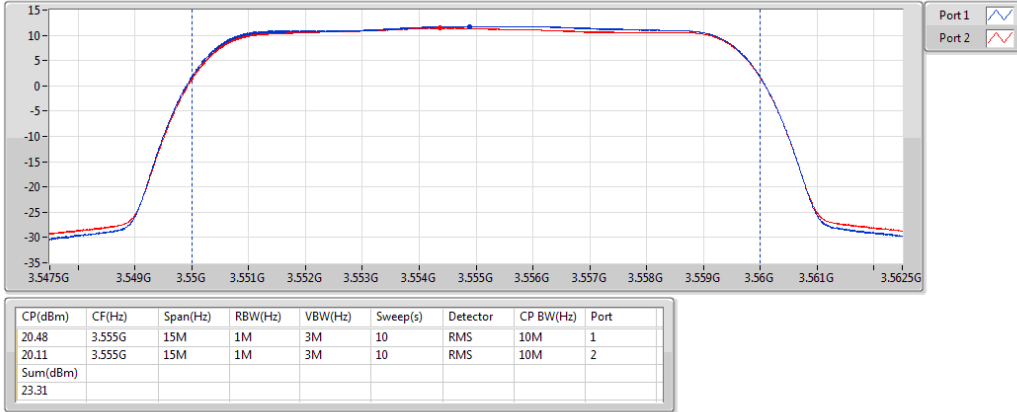
3695MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

PowerAV

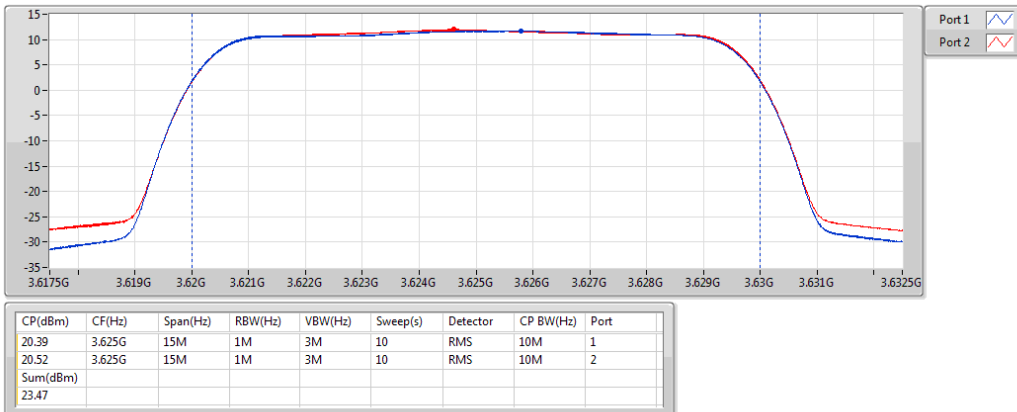
3555MHz_16QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

PowerAV

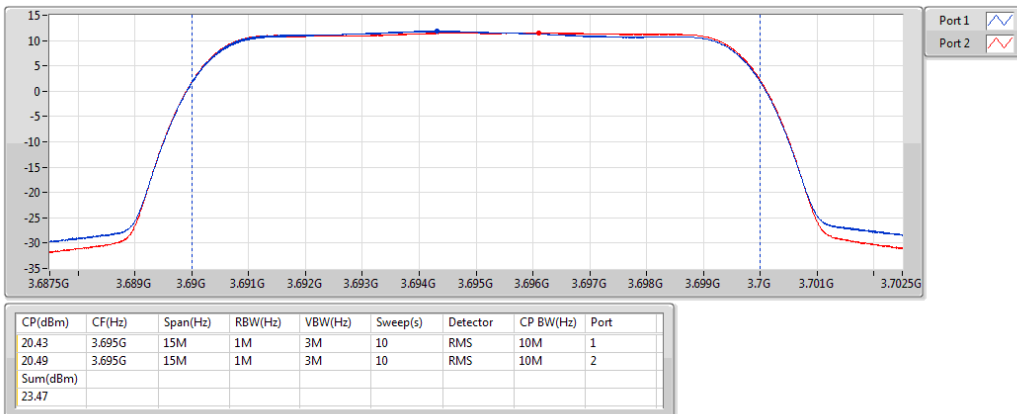
3625MHz_16QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

PowerAV

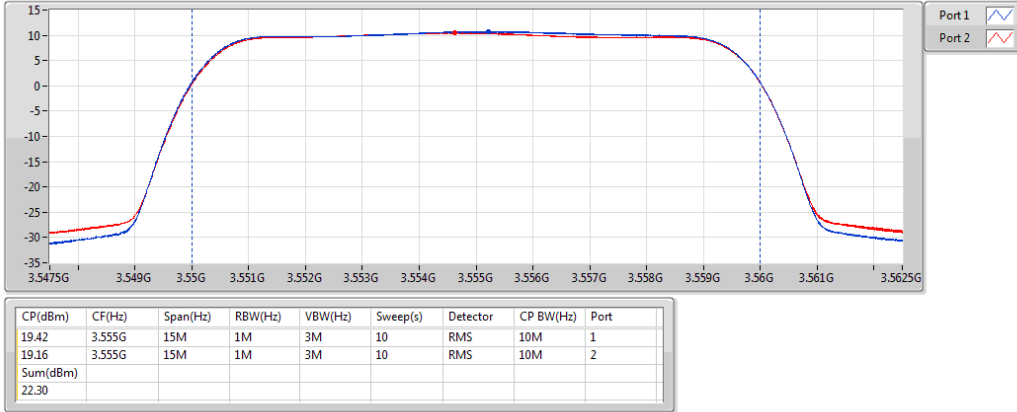
3695MHz_16QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,64QAM_2TX

PowerAV

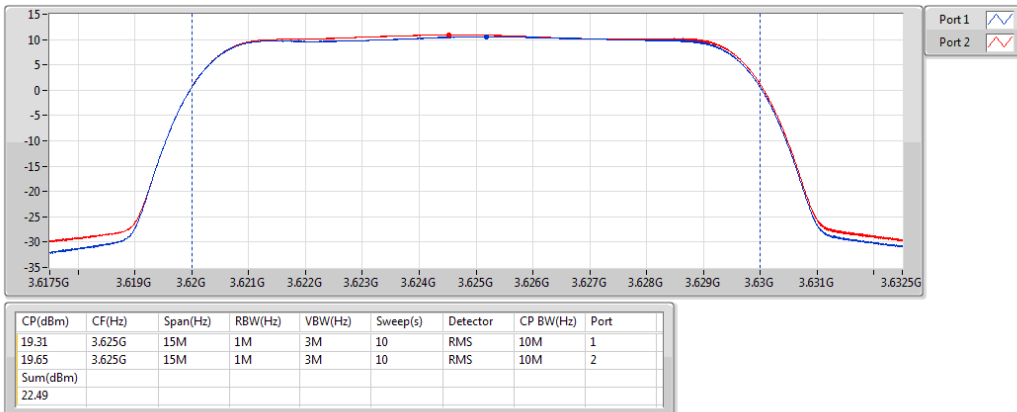
3555MHz_64QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,64QAM_2TX

PowerAV

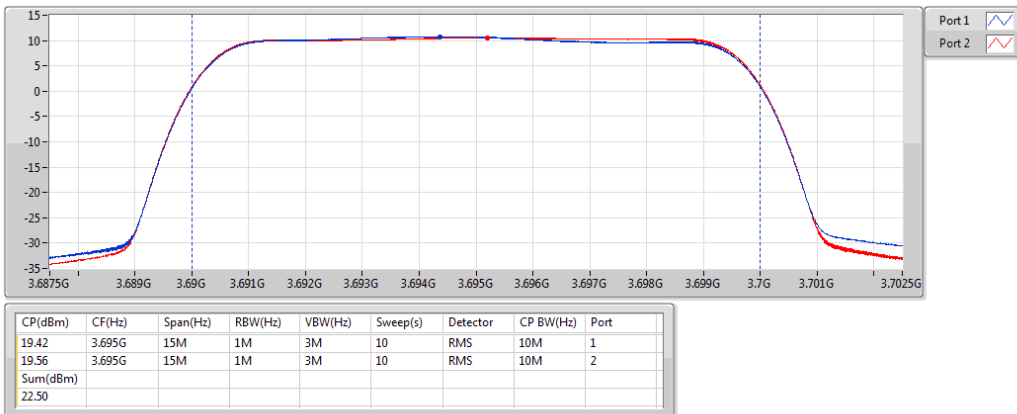
3625MHz_64QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,64QAM_2TX

PowerAV

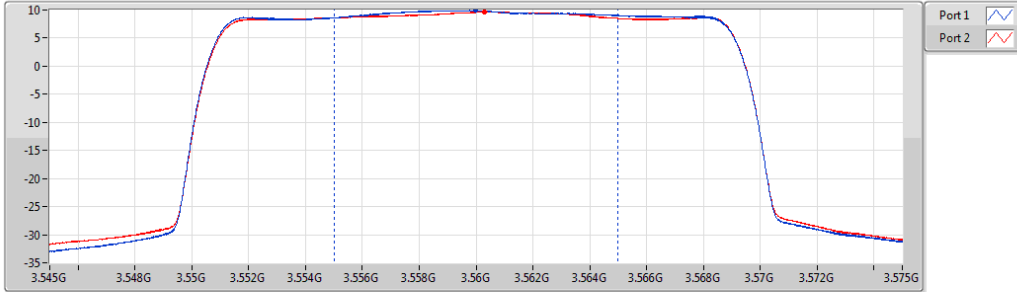
3695MHz_64QAM_RB 50,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3560MHz_QPSK_RB 100,#RB 0

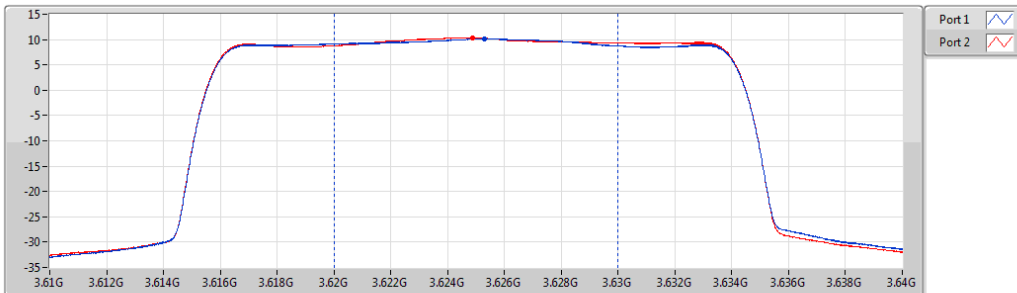


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.17	3.56G	30M	1M	3M	10	RMS	10M	1
18.92	3.56G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.06								

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3625MHz_QPSK_RB 100,#RB 0

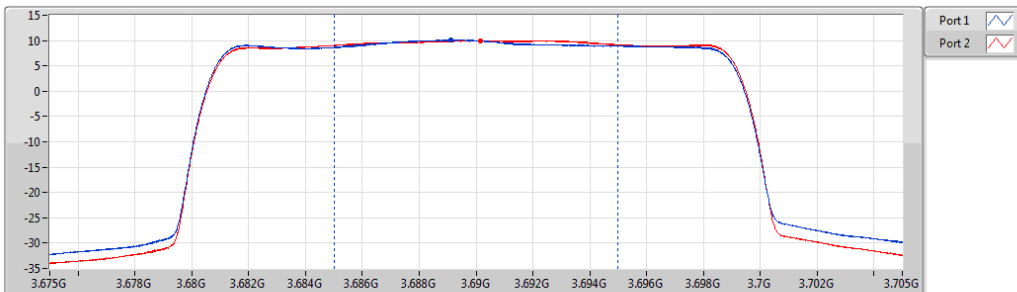


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.32	3.625G	30M	1M	3M	10	RMS	10M	1
19.45	3.625G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.40								

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3690MHz_QPSK_RB 100,#RB 0

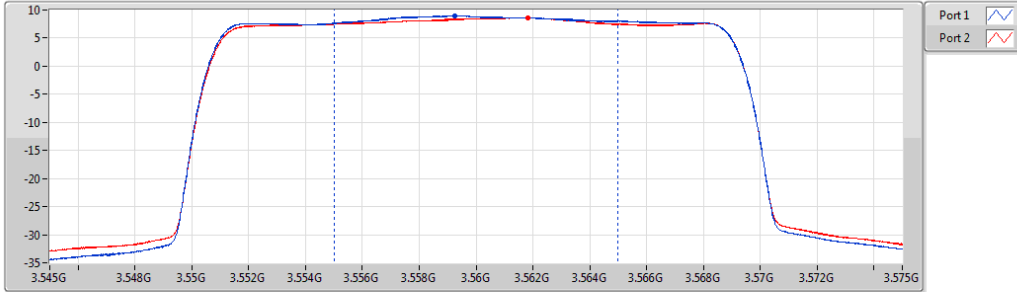


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.16	3.69G	30M	1M	3M	10	RMS	10M	1
19.40	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.29								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

3560MHz_16QAM_RB 100,#RB 0

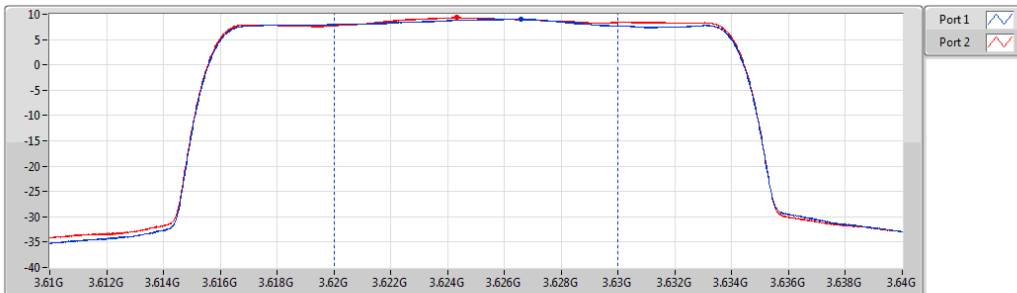


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.19	3.56G	30M	1M	3M	10	RMS	10M	1
17.85	3.56G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.03								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

3625MHz_16QAM_RB 100,#RB 0

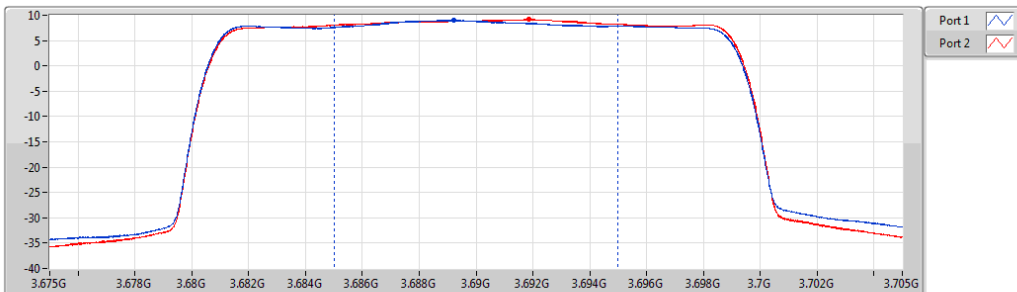


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.22	3.625G	30M	1M	3M	10	RMS	10M	1
18.46	3.625G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.35								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

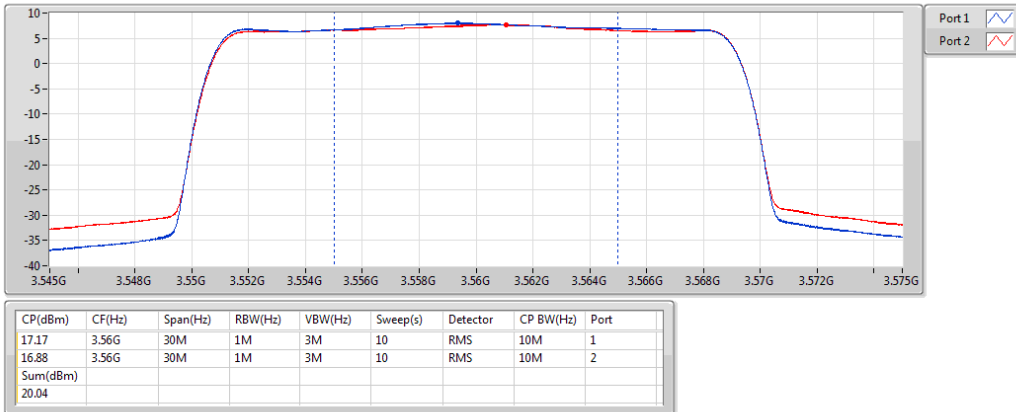
3690MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.10	3.69G	30M	1M	3M	10	RMS	10M	1
18.41	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.27								

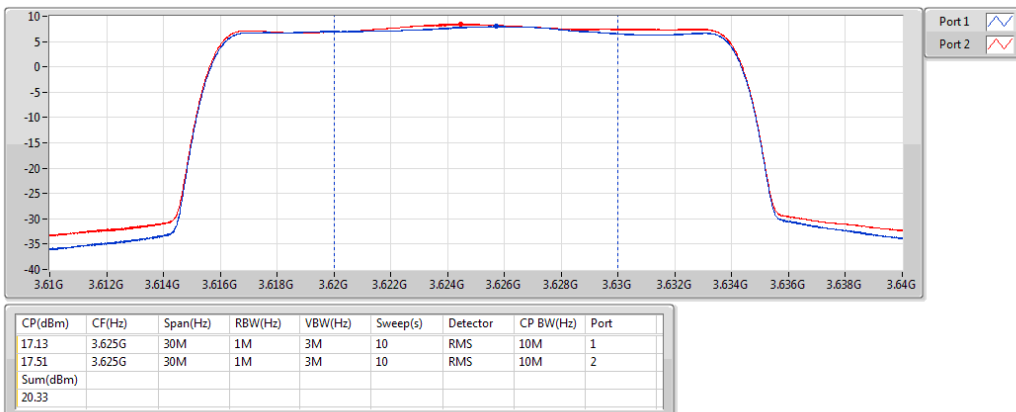
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

PowerAV



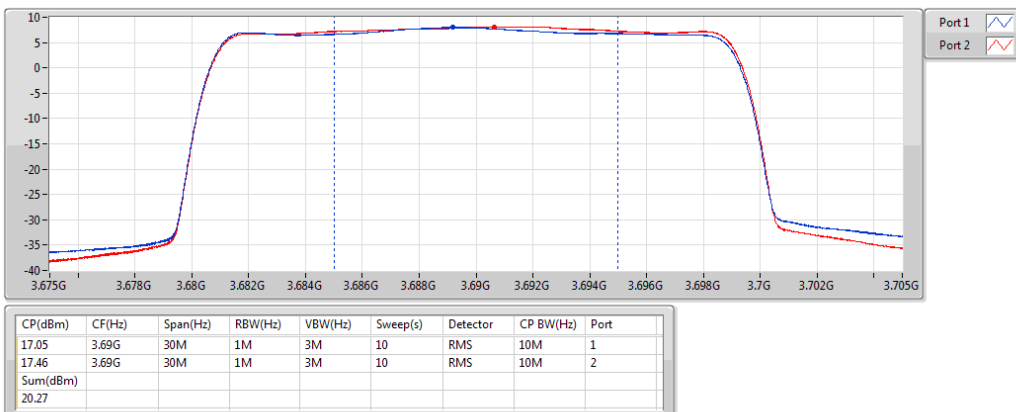
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

PowerAV



Band 48_LTE_20MHz_Nss1,64QAM_2TX
3690MHz_64QAM_RB 100,#RB 0

PowerAV



**Single-carrier
Full Power Result**

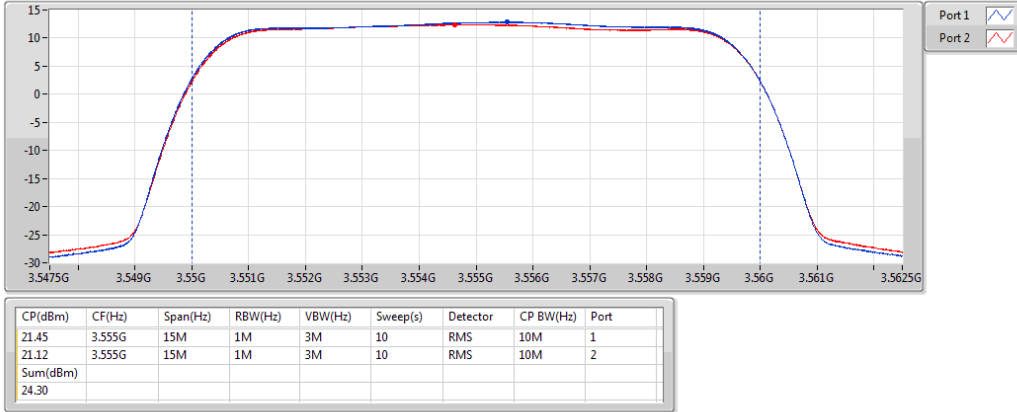
Mode	Result	DG (dBi)	EIRP (dBm)	EIRP (W)	EIRP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)	Port 2 (dBm)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	12.77	37.07	5.09331	Inf	24.30	0.269	Inf	21.45	21.12
3625MHz_QPSK_RB 50,#RB 0	Pass	12.77	37.28	5.34564	Inf	24.51	0.283	Inf	21.40	21.60
3695MHz_QPSK_RB 50,#RB 0	Pass	12.77	37.21	5.26017	Inf	24.44	0.278	Inf	21.45	21.41
3555MHz_16QAM_RB 50,#RB 0	Pass	12.77	36.08	4.05509	Inf	23.31	0.214	Inf	20.48	20.11
3625MHz_16QAM_RB 50,#RB 0	Pass	12.77	36.24	4.20727	Inf	23.47	0.222	Inf	20.39	20.52
3695MHz_16QAM_RB 50,#RB 0	Pass	12.77	36.24	4.20727	Inf	23.47	0.222	Inf	20.43	20.49
3555MHz_64QAM_RB 50,#RB 0	Pass	12.77	35.07	3.21366	Inf	22.30	0.170	Inf	19.42	19.16
3625MHz_64QAM_RB 50,#RB 0	Pass	12.77	35.26	3.35738	Inf	22.49	0.178	Inf	19.31	19.65
3695MHz_64QAM_RB 50,#RB 0	Pass	12.77	35.27	3.36512	Inf	22.50	0.178	Inf	19.42	19.56
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	12.77	36.97	4.97737	Inf	24.20	0.263	Inf	21.33	21.04
3625MHz_QPSK_RB 100,#RB 0	Pass	12.77	37.43	5.53350	Inf	24.66	0.292	Inf	21.57	21.72
3690MHz_QPSK_RB 100,#RB 0	Pass	12.77	37.21	5.26017	Inf	24.44	0.278	Inf	21.35	21.51
3560MHz_16QAM_RB 100,#RB 0	Pass	12.77	35.95	3.93550	Inf	23.18	0.208	Inf	20.32	20.01
3625MHz_16QAM_RB 100,#RB 0	Pass	12.77	36.38	4.34510	Inf	23.61	0.229	Inf	20.51	20.68
3690MHz_16QAM_RB 100,#RB 0	Pass	12.77	36.20	4.16869	Inf	23.43	0.220	Inf	20.29	20.55
3560MHz_64QAM_RB 100,#RB 0	Pass	12.77	34.95	3.12608	Inf	22.18	0.165	Inf	19.28	19.05
3625MHz_64QAM_RB 100,#RB 0	Pass	12.77	35.42	3.48337	Inf	22.65	0.184	Inf	19.45	19.83
3690MHz_64QAM_RB 100,#RB 0	Pass	12.77	35.23	3.33426	Inf	22.46	0.176	Inf	19.26	19.63

DG = Directional Gain; **Port n** = Port n output power

Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

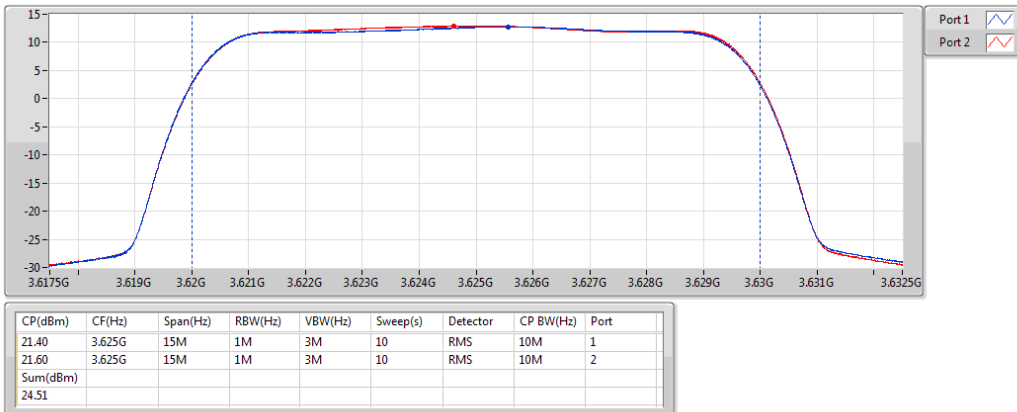
3555MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

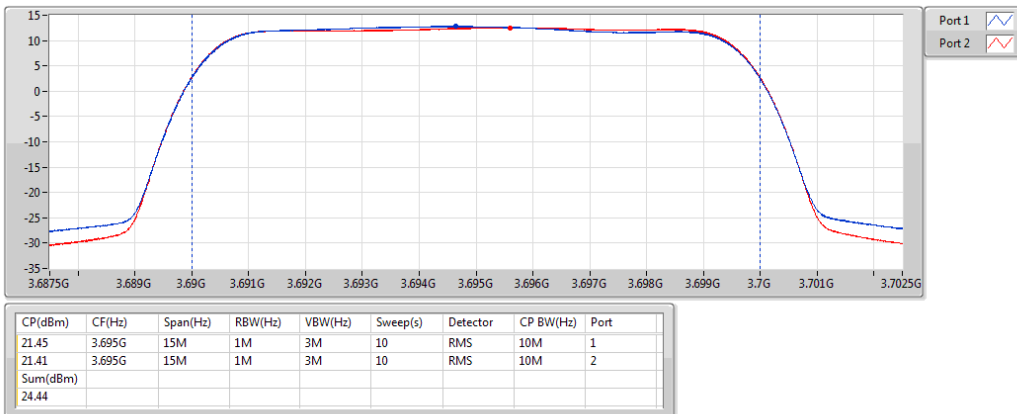
3625MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PowerAV

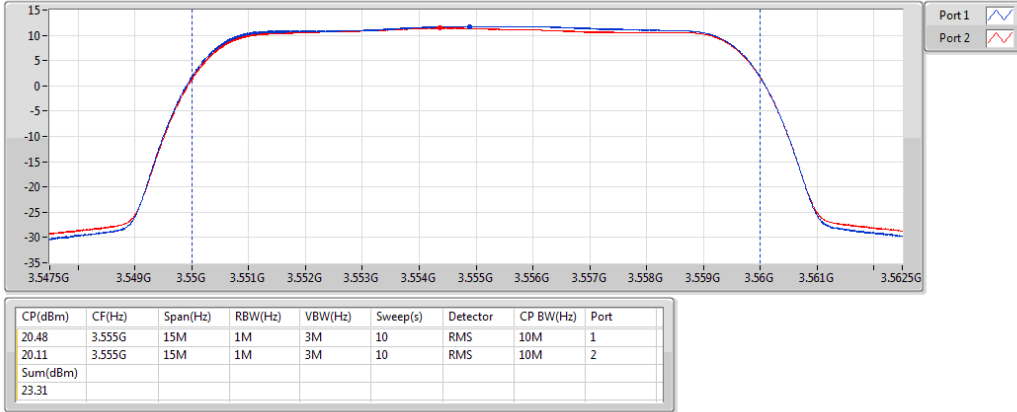
3695MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

PowerAV

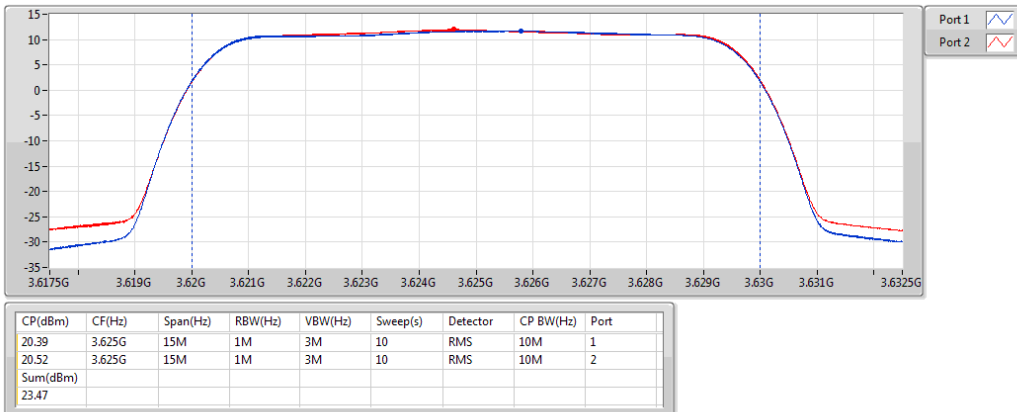
3555MHz_16QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

PowerAV

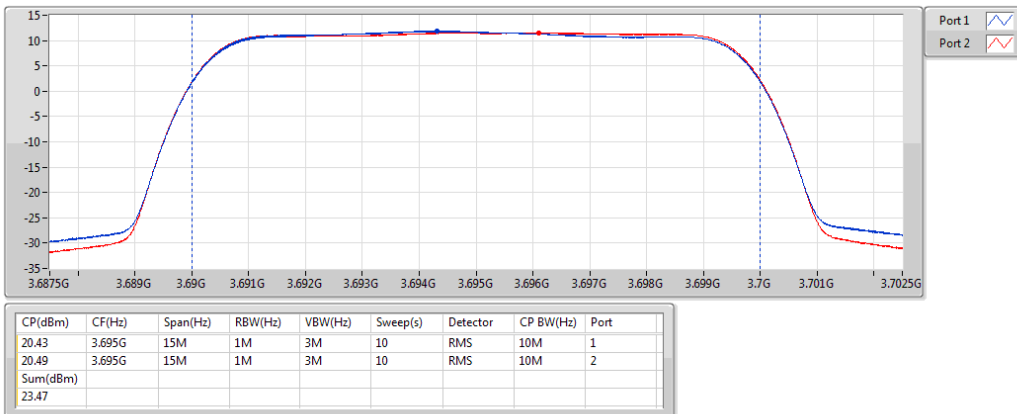
3625MHz_16QAM_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,16QAM_2TX

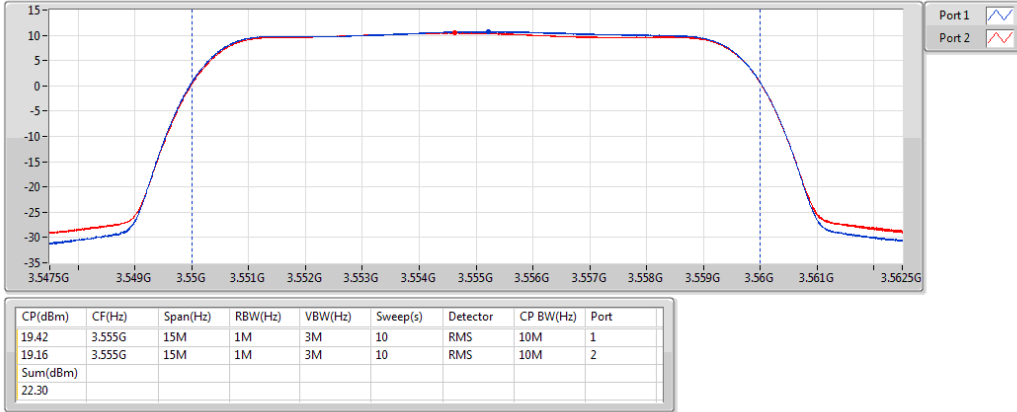
PowerAV

3695MHz_16QAM_RB 50,#RB 0



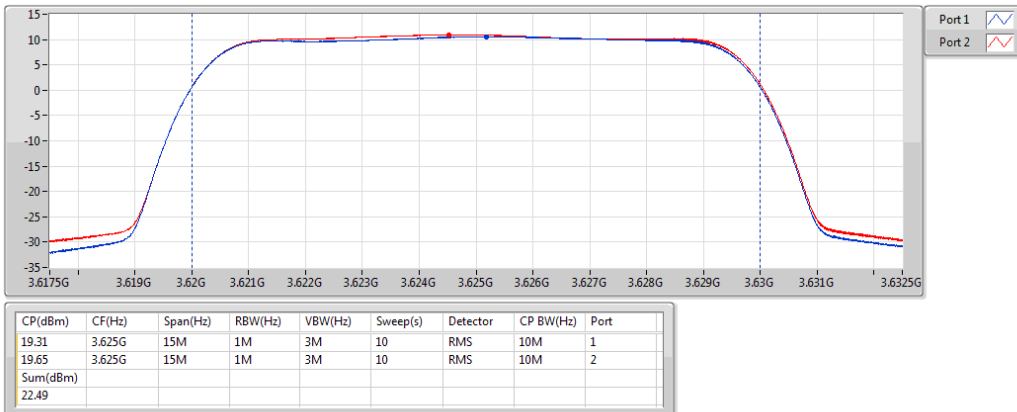
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

PowerAV



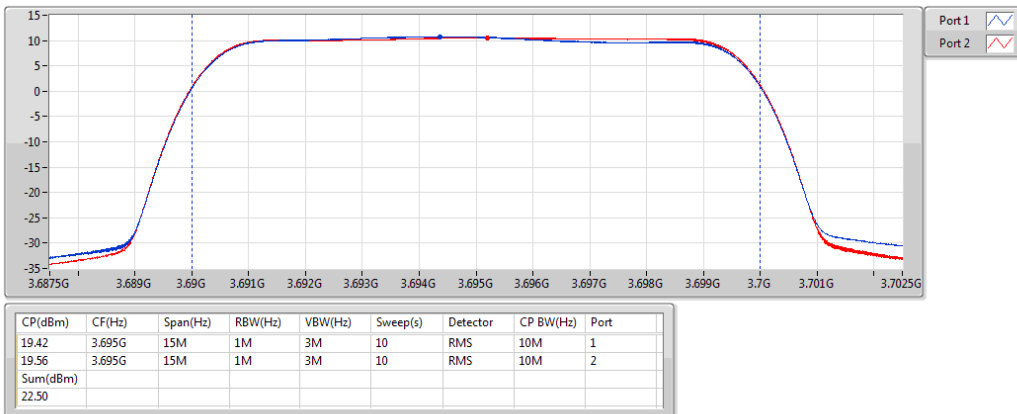
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

PowerAV



Band 48_LTE_10MHz_Nss1,64QAM_2TX
3695MHz_64QAM_RB 50,#RB 0

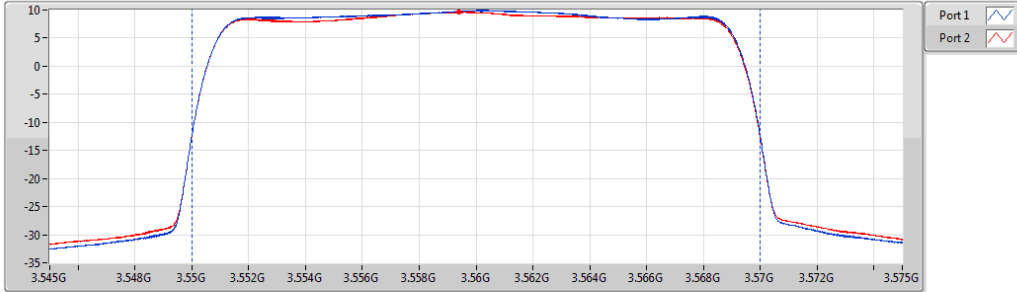
PowerAV



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3560MHz_QPSK_RB 100,#RB 0

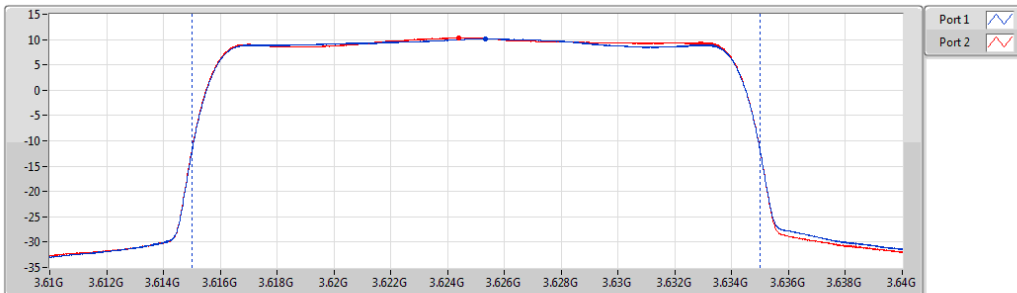


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.33	3.56G	30M	1M	3M	10	RMS	20M	1
21.04	3.56G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.20								

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3625MHz_QPSK_RB 100,#RB 0

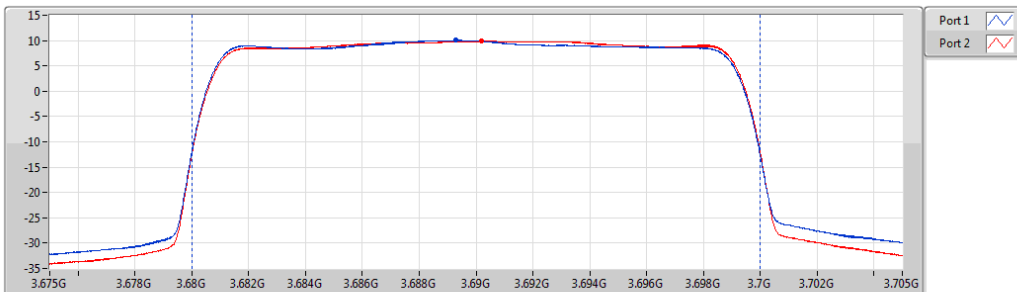


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.57	3.625G	30M	1M	3M	10	RMS	20M	1
21.72	3.625G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.66								

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PowerAV

3690MHz_QPSK_RB 100,#RB 0

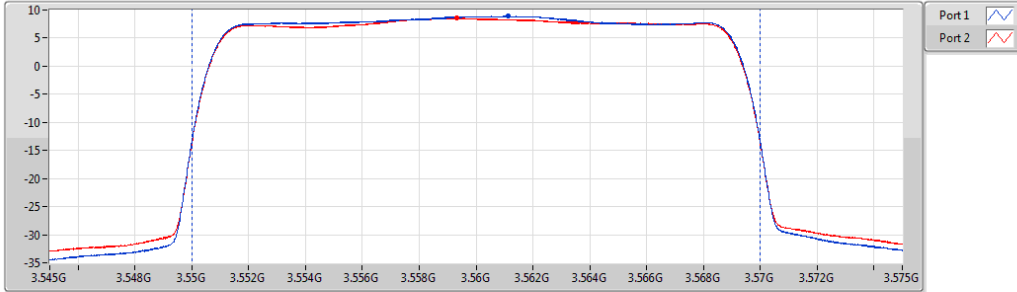


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.35	3.69G	30M	1M	3M	10	RMS	20M	1
21.51	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.44								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

3560MHz_16QAM_RB 100,#RB 0

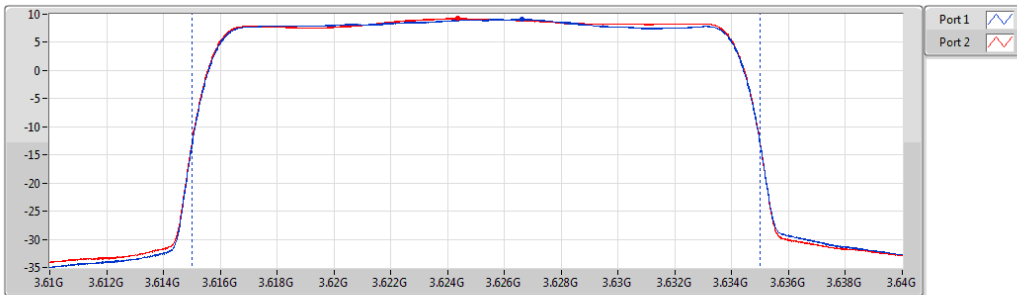


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.32	3.56G	30M	1M	3M	10	RMS	20M	1
20.01	3.56G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.18								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

3625MHz_16QAM_RB 100,#RB 0

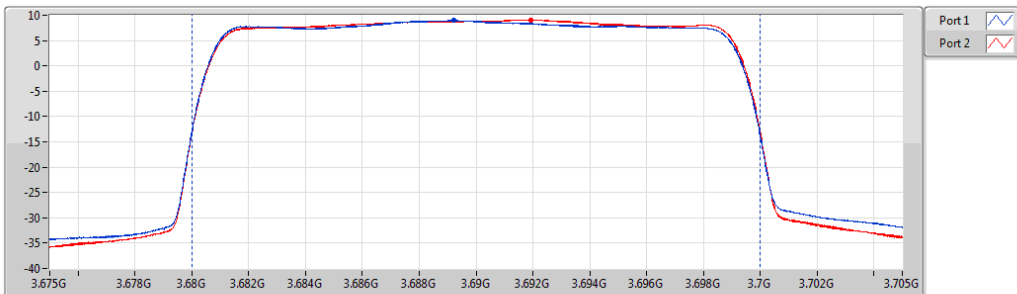


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.51	3.625G	30M	1M	3M	10	RMS	20M	1
20.68	3.625G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.61								

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PowerAV

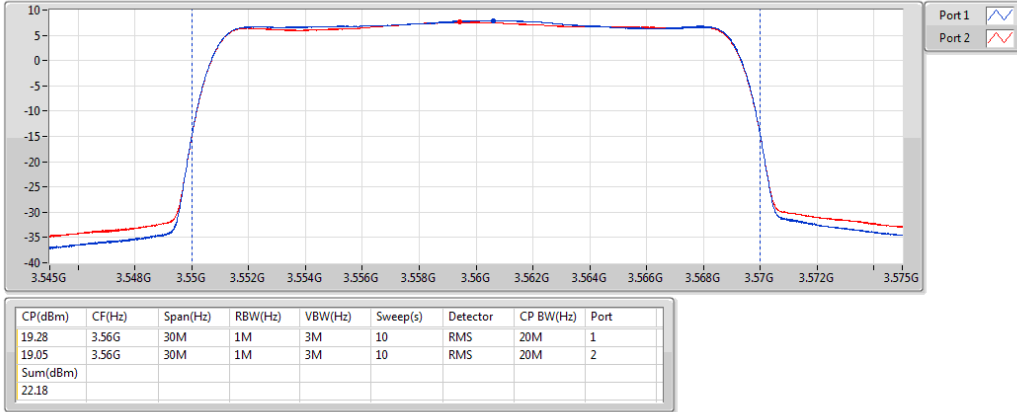
3690MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.29	3.69G	30M	1M	3M	10	RMS	20M	1
20.55	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.43								

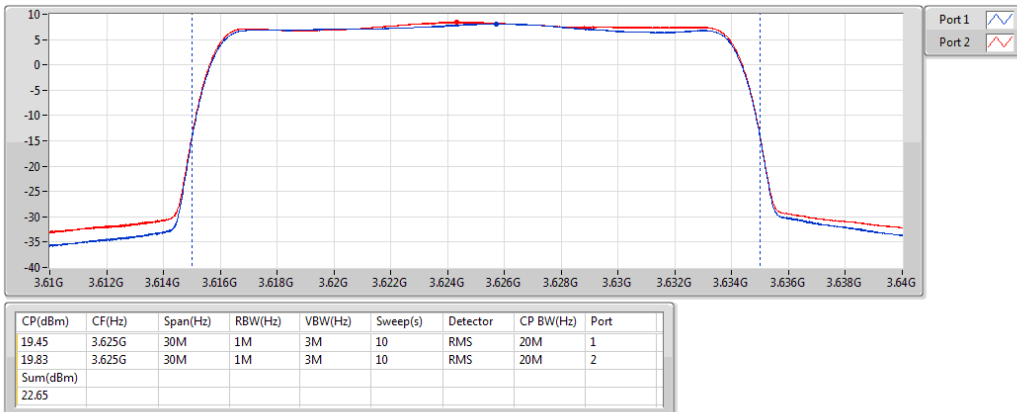
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

PowerAV



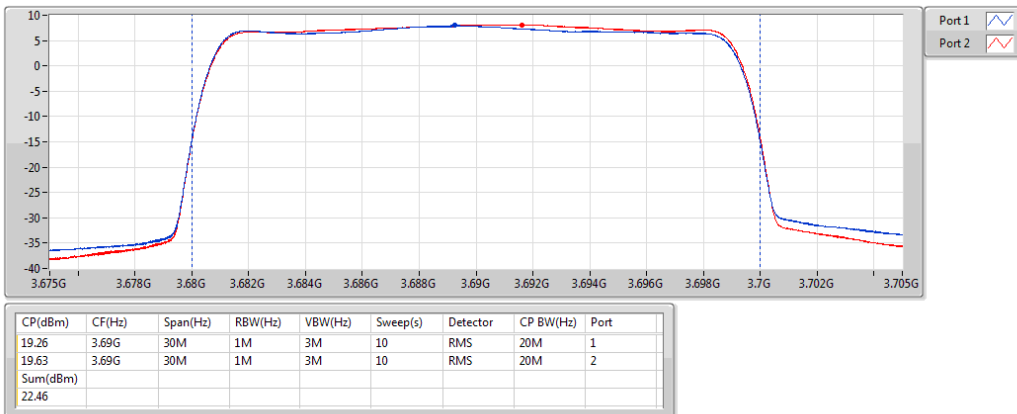
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

PowerAV



Band 48_LTE_20MHz_Nss1,64QAM_2TX
3690MHz_64QAM_RB 100,#RB 0

PowerAV



3.1.6 Test Result of PSD (CDD Mode)

Single-carrier Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_10MHz_Nss1,QPSK_2TX	15.85	28.62
LTE_10MHz_Nss1,16QAM_2TX	14.78	27.55
LTE_10MHz_Nss1,64QAM_2TX	13.82	26.59
LTE_20MHz_Nss1,QPSK_2TX	13.18	25.95
LTE_20MHz_Nss1,16QAM_2TX	11.97	24.74
LTE_20MHz_Nss1,64QAM_2TX	10.98	23.75

Result

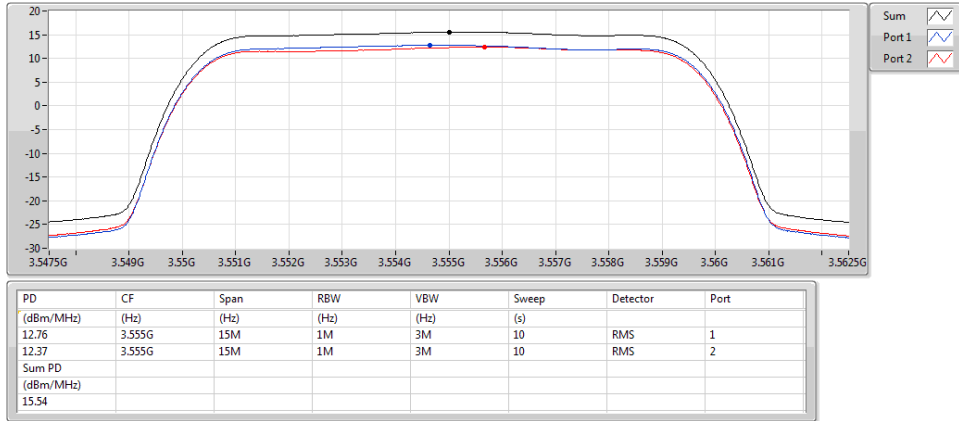
Mode	Result	DG (dBi)	PD (dBm/MHz)	PD Limit (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)	Port 1 (dBm/MHz)	Port 2 (dBm/MHz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	12.77	15.54	Inf	28.31	37.00	12.76	12.37
3625MHz_QPSK_RB 50,#RB 0	Pass	12.77	15.85	Inf	28.62	37.00	12.83	12.96
3695MHz_QPSK_RB 50,#RB 0	Pass	12.77	15.74	Inf	28.51	37.00	12.84	12.76
3555MHz_16QAM_RB 50,#RB 0	Pass	12.77	14.52	Inf	27.29	37.00	11.80	11.30
3625MHz_16QAM_RB 50,#RB 0	Pass	12.77	14.78	Inf	27.55	37.00	11.77	11.91
3695MHz_16QAM_RB 50,#RB 0	Pass	12.77	14.77	Inf	27.54	37.00	11.77	11.81
3555MHz_64QAM_RB 50,#RB 0	Pass	12.77	13.56	Inf	26.33	37.00	10.75	10.40
3625MHz_64QAM_RB 50,#RB 0	Pass	12.77	13.78	Inf	26.55	37.00	10.62	11.01
3695MHz_64QAM_RB 50,#RB 0	Pass	12.77	13.82	Inf	26.59	37.00	10.82	10.85
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	12.77	12.86	Inf	25.63	37.00	10.14	9.59
3625MHz_QPSK_RB 100,#RB 0	Pass	12.77	13.18	Inf	25.95	37.00	10.16	10.27
3690MHz_QPSK_RB 100,#RB 0	Pass	12.77	13.06	Inf	25.83	37.00	10.02	10.17
3560MHz_16QAM_RB 100,#RB 0	Pass	12.77	11.76	Inf	24.53	37.00	9.04	8.53
3625MHz_16QAM_RB 100,#RB 0	Pass	12.77	11.97	Inf	24.74	37.00	9.03	9.21
3690MHz_16QAM_RB 100,#RB 0	Pass	12.77	11.95	Inf	24.72	37.00	8.87	9.28
3560MHz_64QAM_RB 100,#RB 0	Pass	12.77	10.73	Inf	23.50	37.00	8.07	7.42
3625MHz_64QAM_RB 100,#RB 0	Pass	12.77	10.98	Inf	23.75	37.00	7.85	8.23
3690MHz_64QAM_RB 100,#RB 0	Pass	12.77	10.94	Inf	23.71	37.00	7.82	8.18

DG = Directional Gain;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

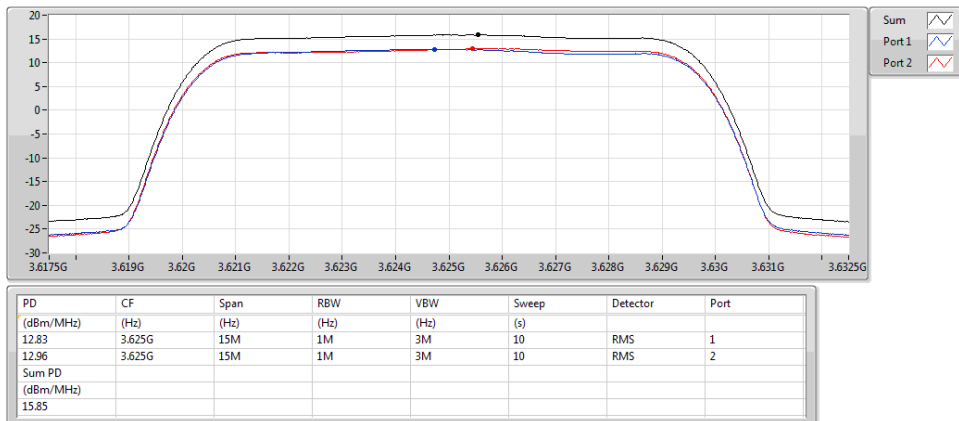
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3555MHz_QPSK_RB 50,#RB 0

PSD



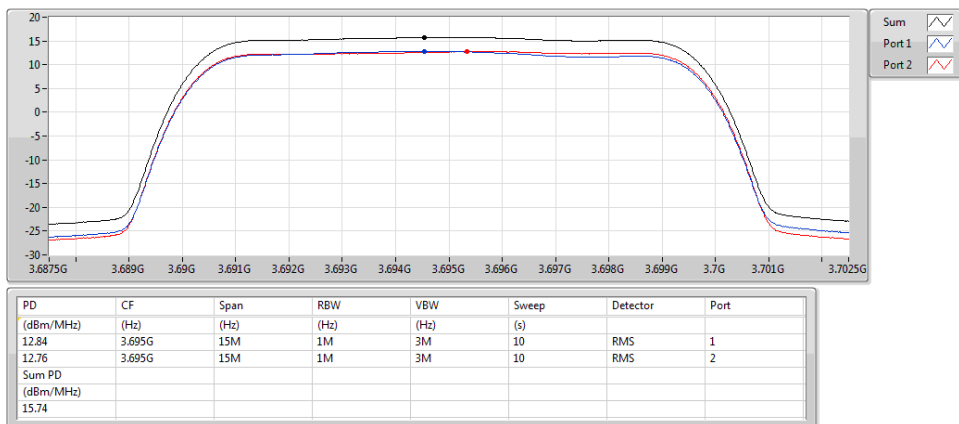
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 50,#RB 0

PSD



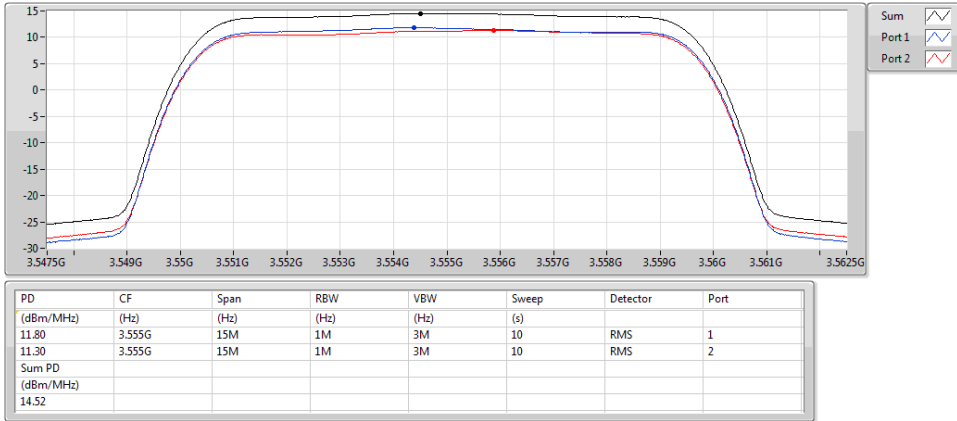
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3695MHz_QPSK_RB 50,#RB 0

PSD



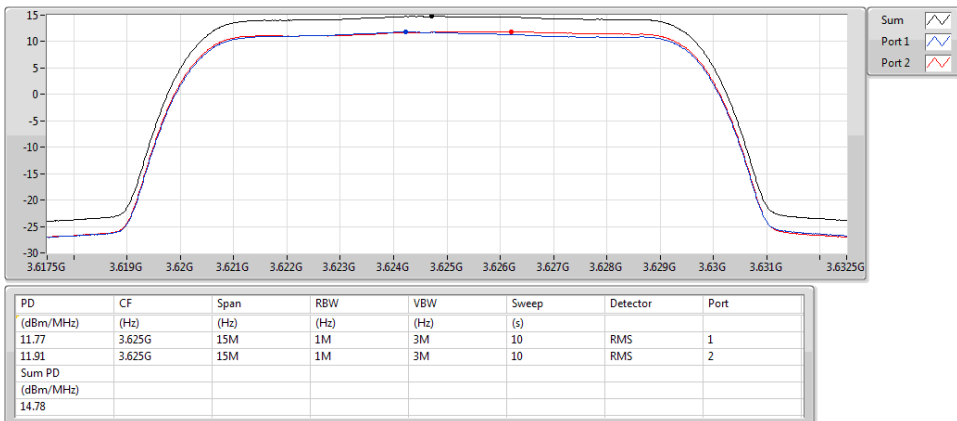
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

PSD



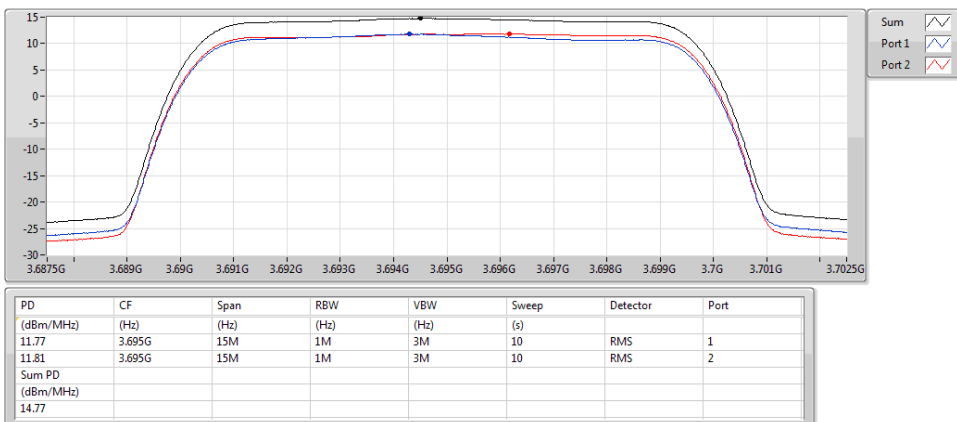
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 50,#RB 0

PSD



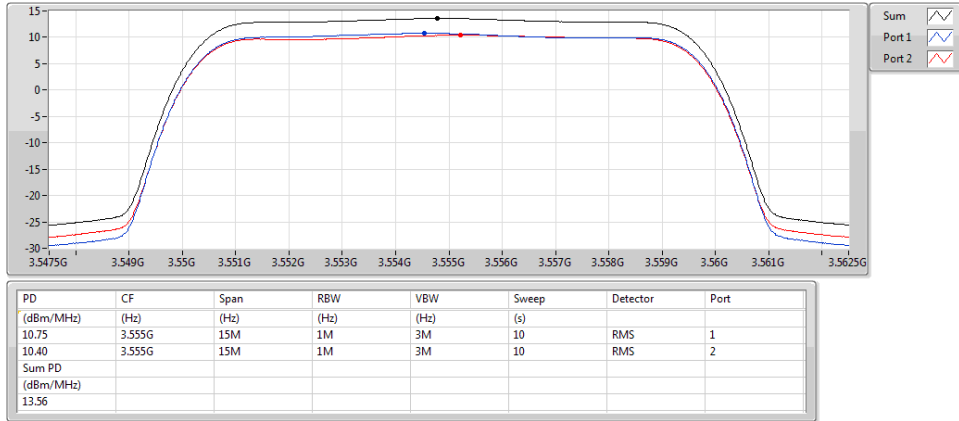
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3695MHz_16QAM_RB 50,#RB 0

PSD



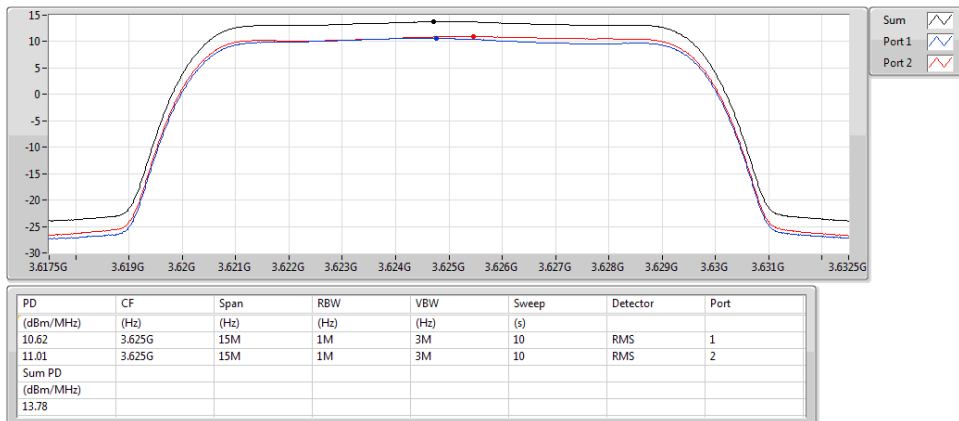
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

PSD



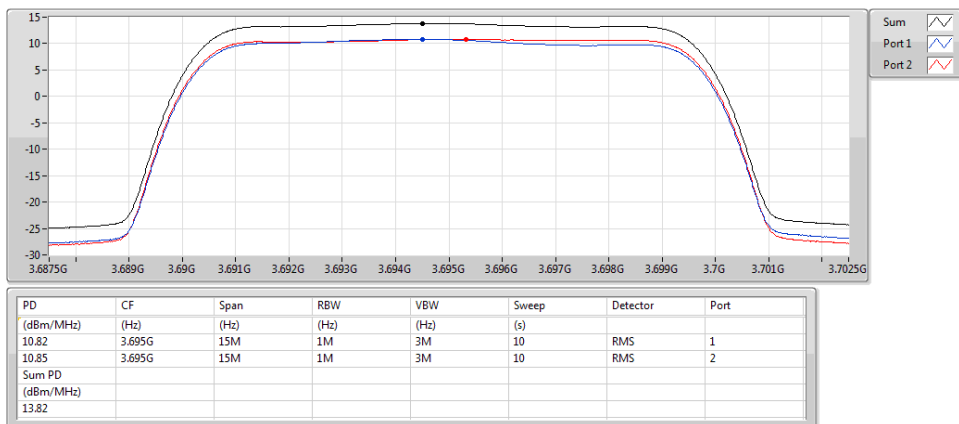
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

PSD



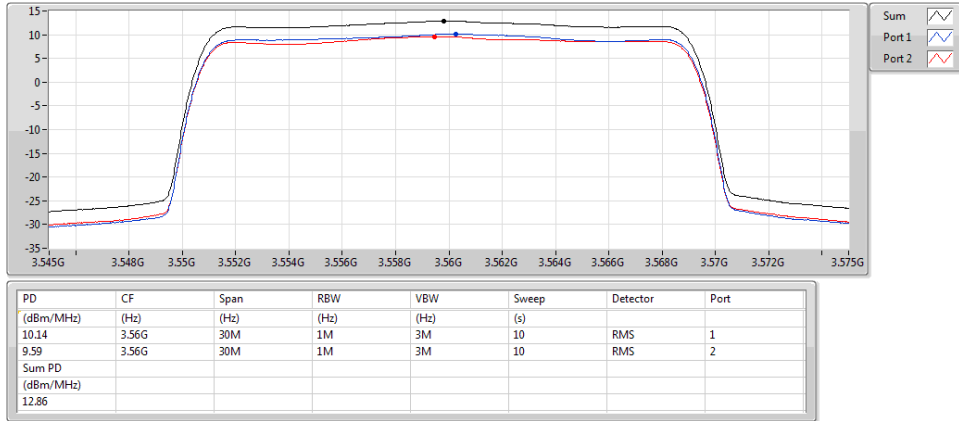
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3695MHz_64QAM_RB 50,#RB 0

PSD



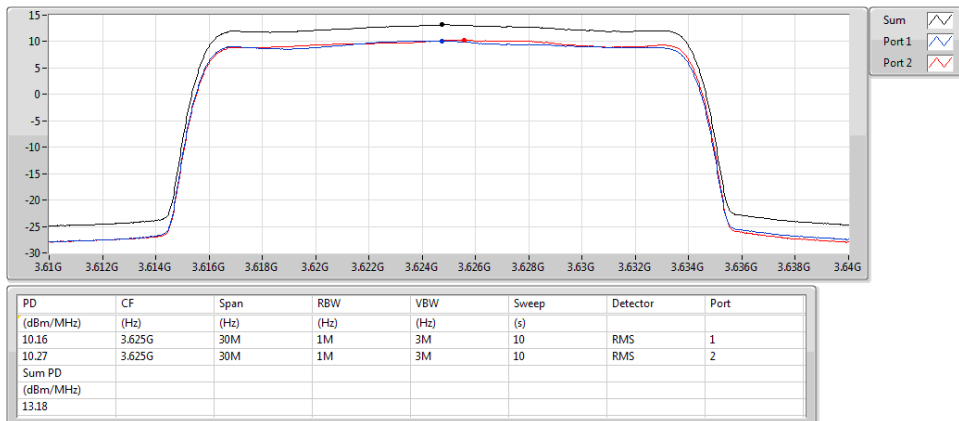
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3560MHz_QPSK_RB 100,#RB 0

PSD



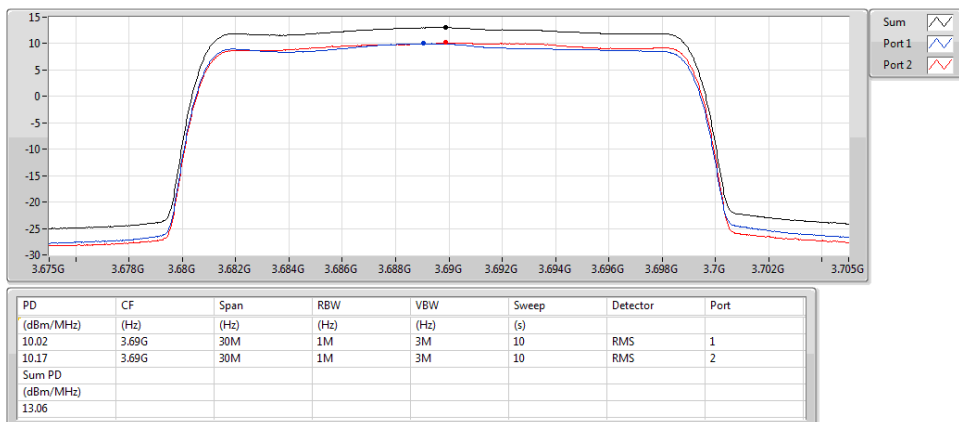
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 100,#RB 0

PSD



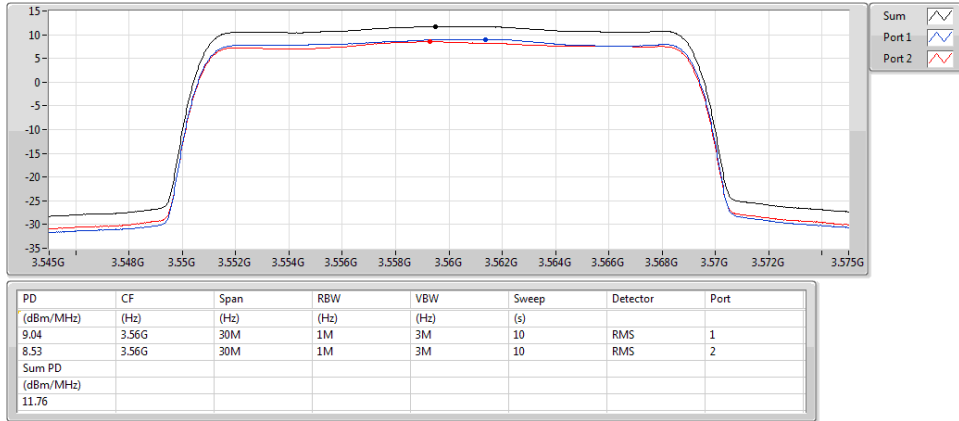
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3690MHz_QPSK_RB 100,#RB 0

PSD



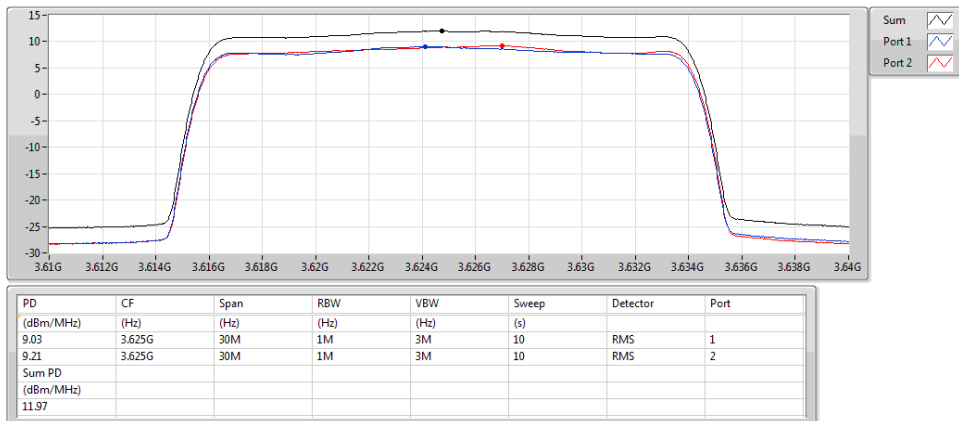
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz_16QAM_RB 100,#RB 0

PSD



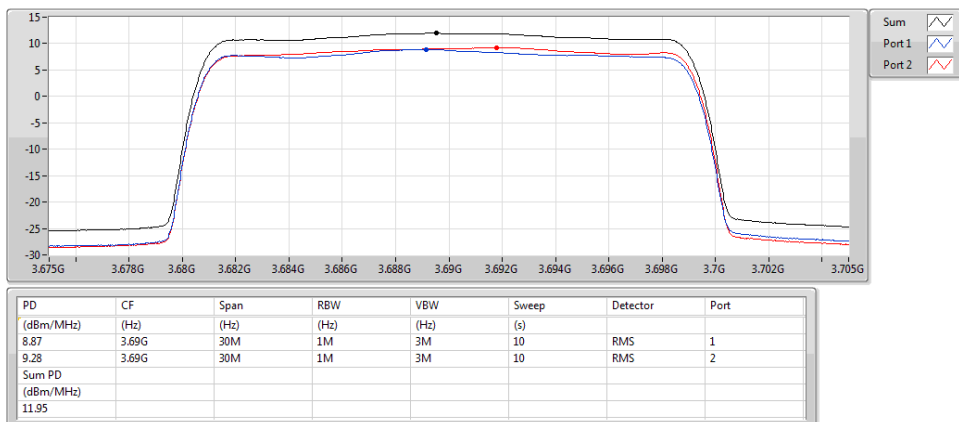
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 100,#RB 0

PSD



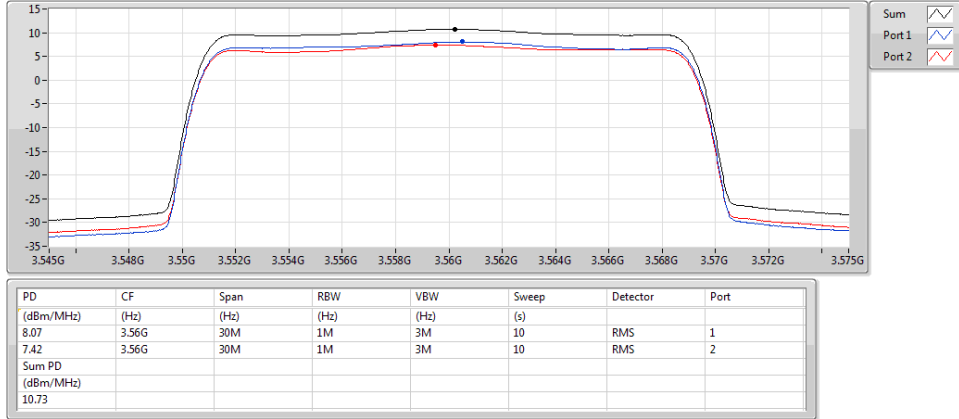
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz_16QAM_RB 100,#RB 0

PSD



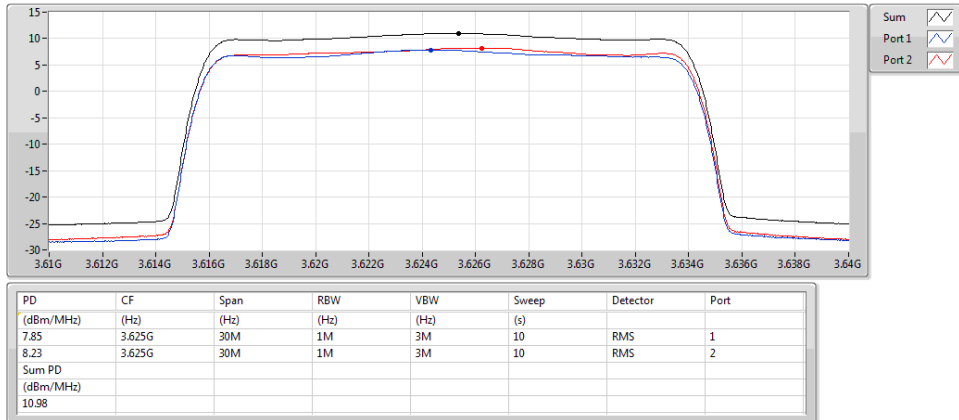
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

PSD



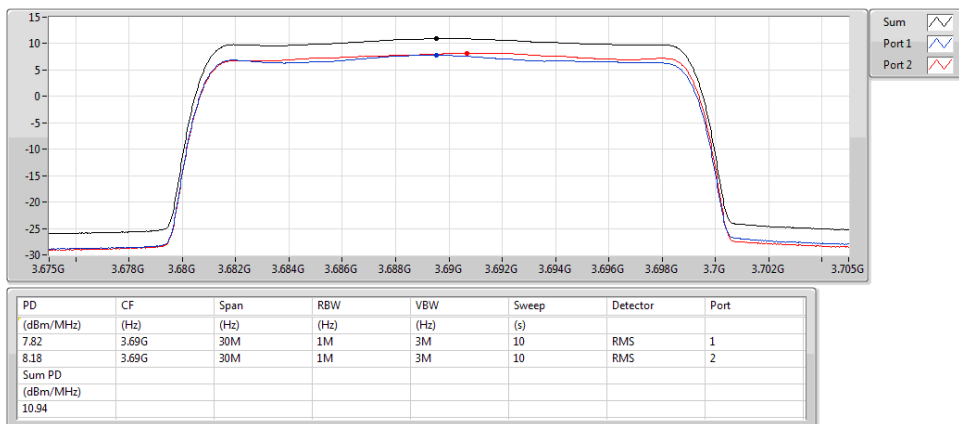
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

PSD



Band 48_LTE_20MHz_Nss1,64QAM_2TX
3690MHz_64QAM_RB 100,#RB 0

PSD



3.1.7 Test Result of EIRP (CA Mode)

Multi-carrier

Summary of AV Power @10MHz

Mode	Power (dBm)	Power (W)	EIRP (dBm)	EIRP (W)	EIRP Limit (W)
Band 48	-	-	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	21.21	0.132	33.98	2.500	50.12
LTE_10MHz+10MHz_Nss1,16QAM_2TX	21.23	0.133	34.00	2.512	50.12
LTE_10MHz+10MHz_Nss1,64QAM_2TX	21.25	0.133	34.02	2.523	50.12
LTE_10MHz+20MHz_Nss1,QPSK_2TX	20.27	0.106	33.04	2.014	50.12
LTE_10MHz+20MHz_Nss1,16QAM_2TX	20.22	0.105	32.99	1.991	50.12
LTE_10MHz+20MHz_Nss1,64QAM_2TX	20.25	0.106	33.02	2.004	50.12
LTE_20MHz+10MHz_Nss1,QPSK_2TX	20.10	0.102	32.87	1.936	50.12
LTE_20MHz+10MHz_Nss1,16QAM_2TX	20.11	0.103	32.88	1.941	50.12
LTE_20MHz+10MHz_Nss1,64QAM_2TX	20.17	0.104	32.94	1.968	50.12
LTE_20MHz+20MHz_Nss1,QPSK_2TX	18.85	0.077	31.62	1.452	50.12
LTE_20MHz+20MHz_Nss1,16QAM_2TX	18.88	0.077	31.65	1.462	50.12
LTE_20MHz+20MHz_Nss1,64QAM_2TX	18.87	0.077	31.64	1.459	50.12

Result

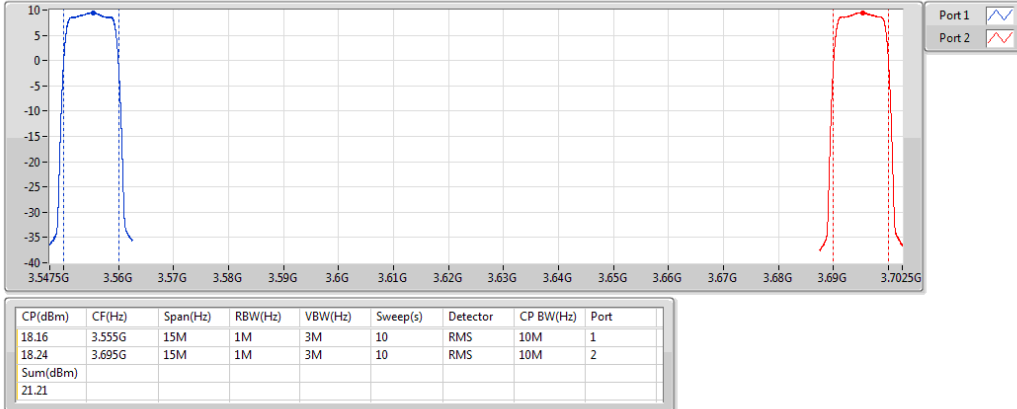
Mode	Result	DG (dBi)	1Carrier Port 1 (dBm/10MHz)	2Carrier Port 2 (dBm/10MHz)	Max Power (dBm/10MHz)	Max EIRP (dBm/10MHz)	EIRP Lim. (dBm/10MHz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	18.16	18.24	18.24	31.01	47
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	18.17	18.26	18.26	31.03	47
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	18.17	18.31	18.31	31.08	47
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	18.23	16.01	18.23	31	47
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	18.18	15.96	18.18	30.95	47
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	18.17	16.05	18.17	30.94	47
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	15.74	18.11	18.11	30.88	47
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	15.75	18.13	18.13	30.9	47
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	15.78	18.21	18.21	30.98	47
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	15.77	15.9	15.9	28.67	47
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	15.78	15.96	15.96	28.73	47
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	15.75	15.96	15.96	28.73	47

DG = Directional Gain; Port n = Port n output power

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX

PowerAV

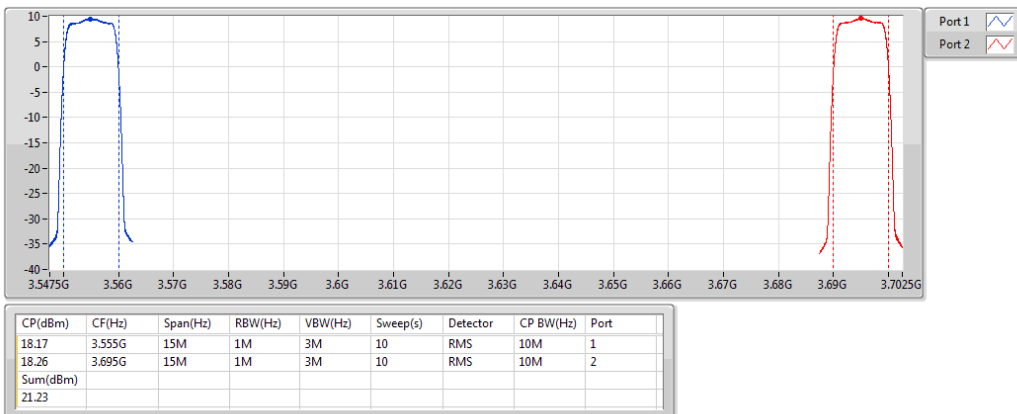
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX

PowerAV

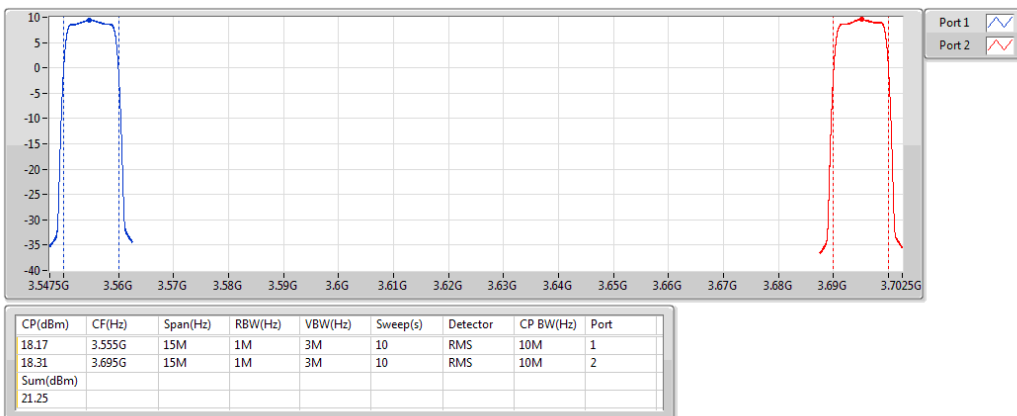
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX

PowerAV

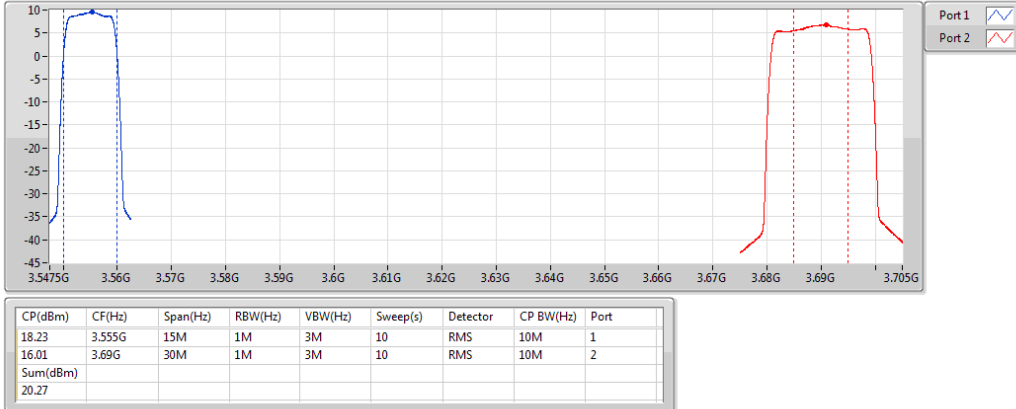
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX

PowerAV

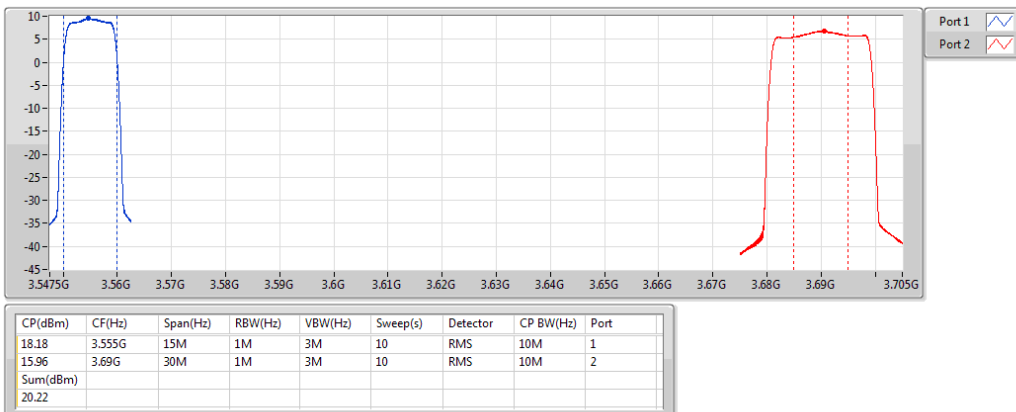
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX

PowerAV

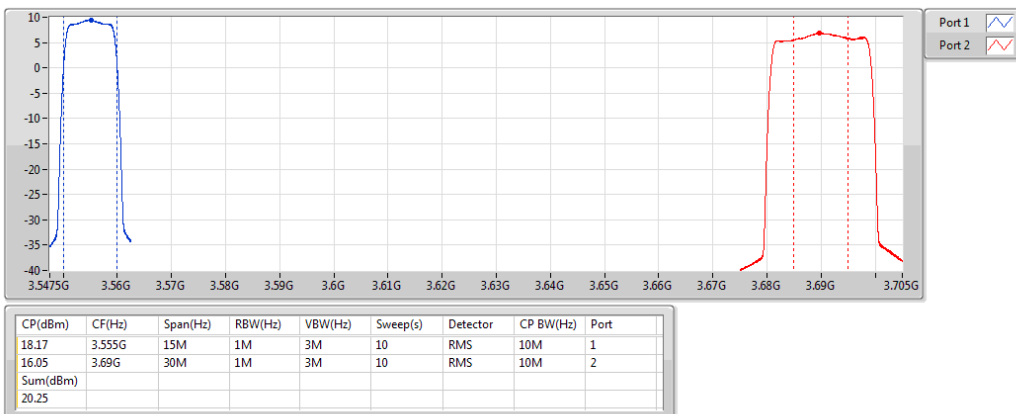
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX

PowerAV

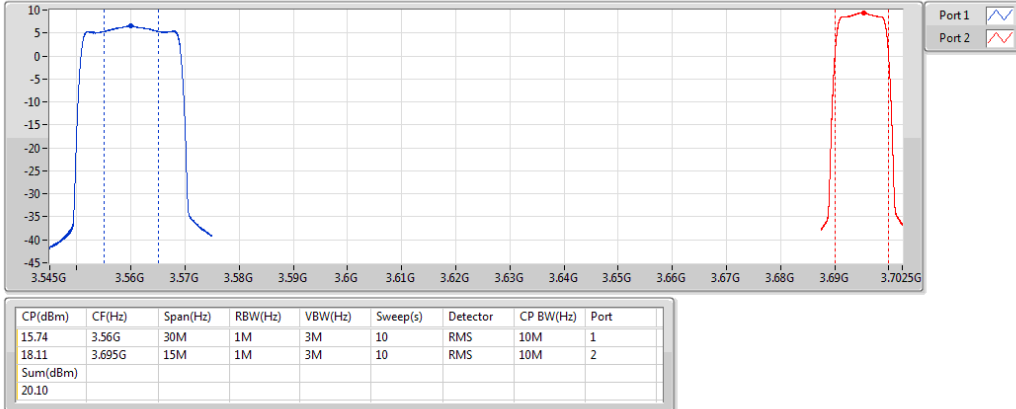
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX

PowerAV

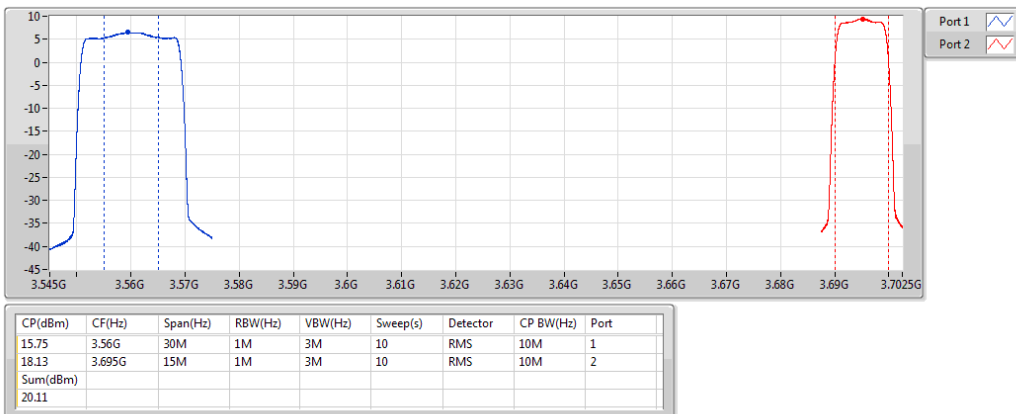
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX

PowerAV

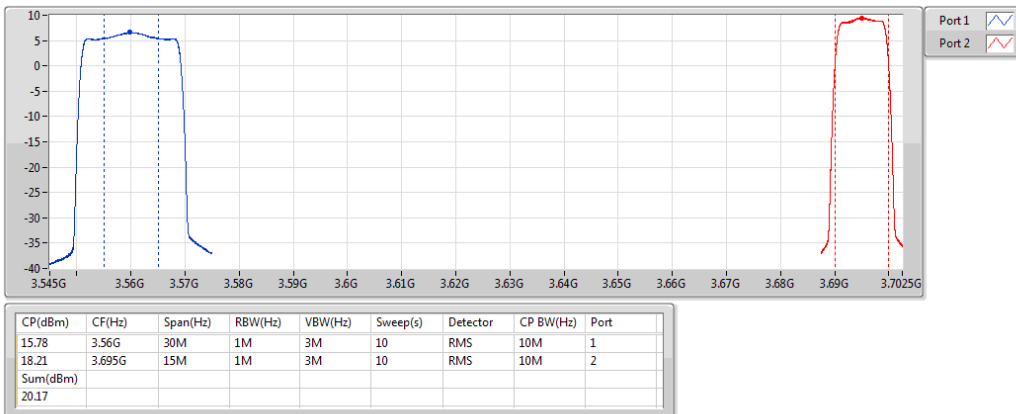
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX

PowerAV

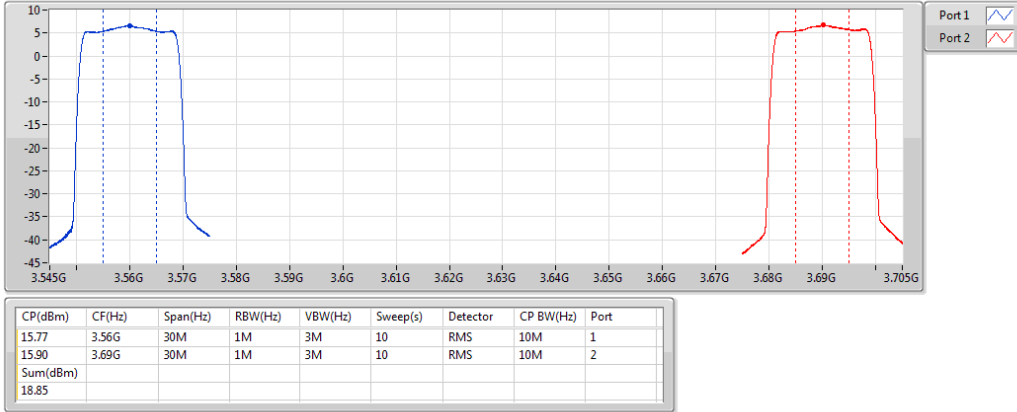
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX

PowerAV

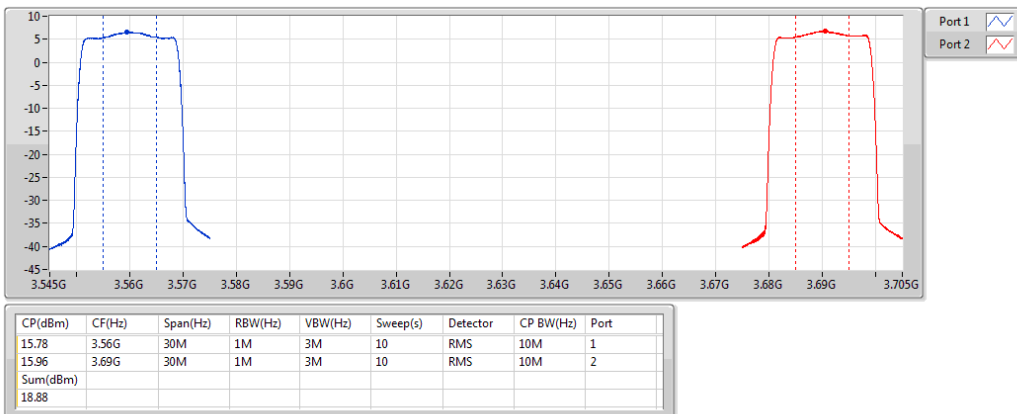
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX

PowerAV

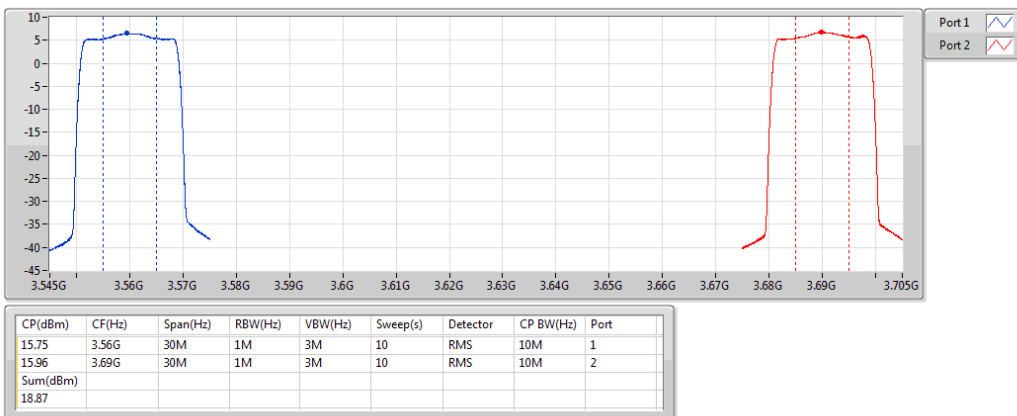
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX

PowerAV

P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



**Multi-carrier
Full Power Result**

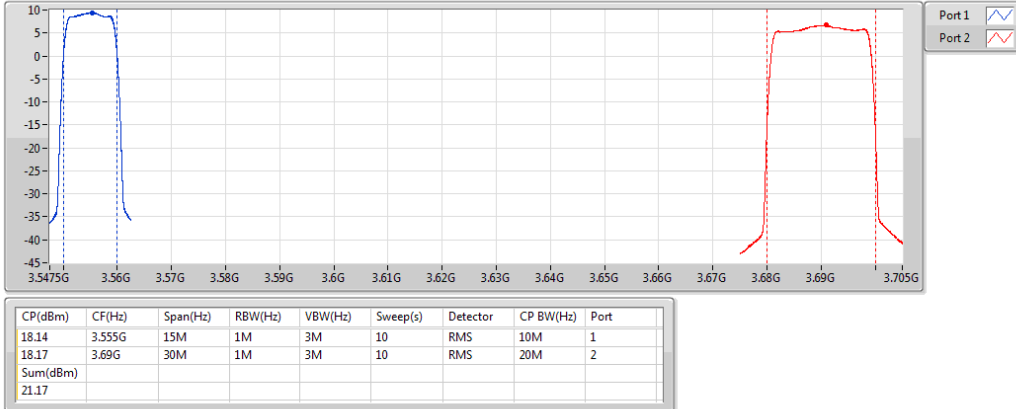
Mode	Result	DG (dBi)	EIRP (dBm)	EIRP (W)	EIRP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	1Carrier Port 1 (dBm)	2Carrier Port 2 (dBm)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	33.98	2.500	Inf	21.21	0.132	Inf	18.16	18.24
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	34.00	2.512	Inf	21.23	0.133	Inf	18.17	18.26
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	34.02	2.523	Inf	21.25	0.133	Inf	18.17	18.31
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	33.94	2.477	Inf	21.17	0.131	Inf	18.14	18.17
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	33.91	2.460	Inf	21.14	0.130	Inf	18.09	18.16
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	33.90	2.455	Inf	21.13	0.130	Inf	18.08	18.16
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	33.91	2.460	Inf	21.14	0.130	Inf	18.04	18.21
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	33.90	2.455	Inf	21.13	0.130	Inf	17.97	18.27
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	33.93	2.472	Inf	21.16	0.131	Inf	17.99	18.31
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	33.81	2.404	Inf	21.04	0.127	Inf	17.94	18.11
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	33.83	2.415	Inf	21.06	0.128	Inf	17.97	18.13
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	33.86	2.432	Inf	21.09	0.129	Inf	17.96	18.19

DG = Directional Gain; Port n = Port n output power

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX

PowerAV

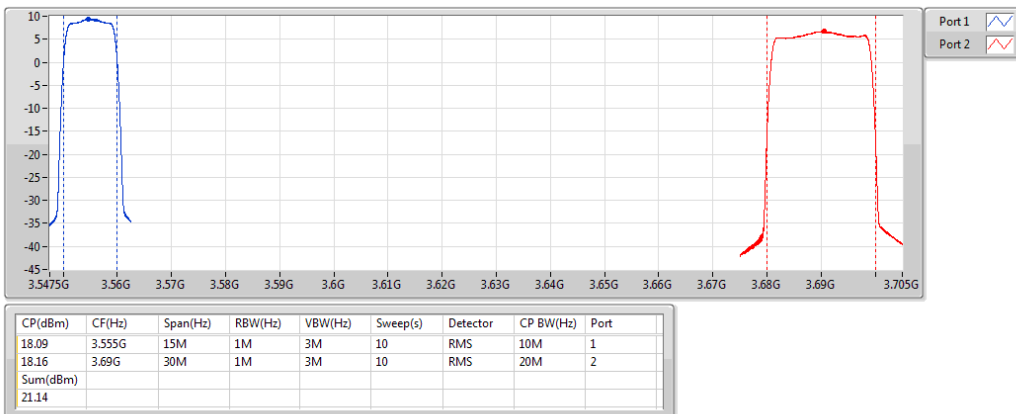
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX

PowerAV

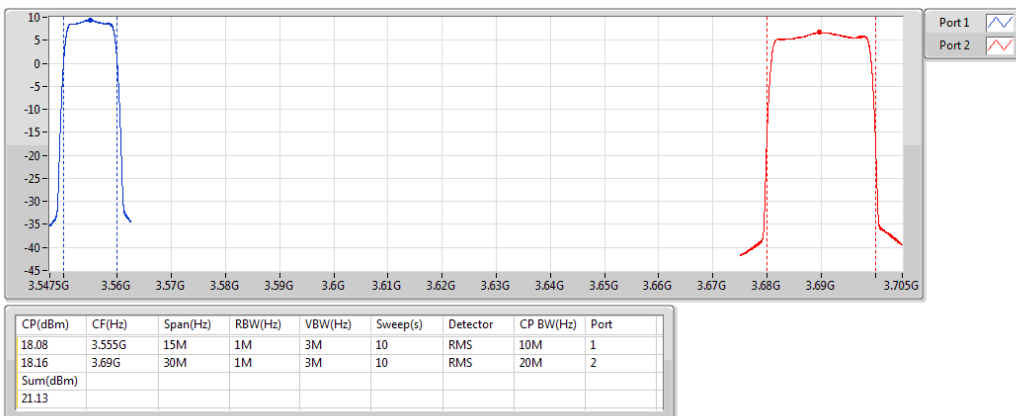
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX

PowerAV

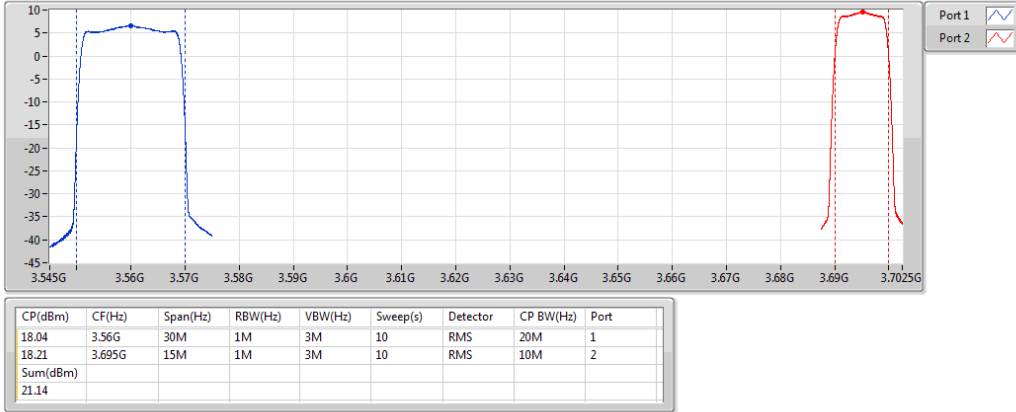
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX

PowerAV

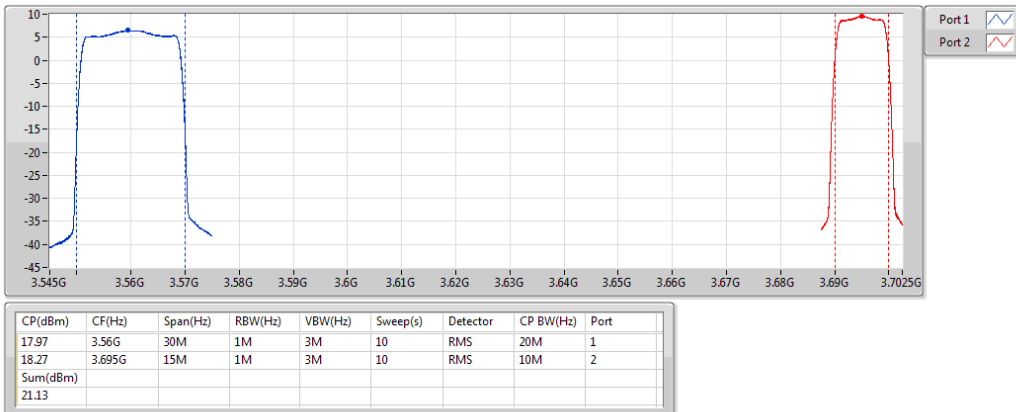
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX

PowerAV

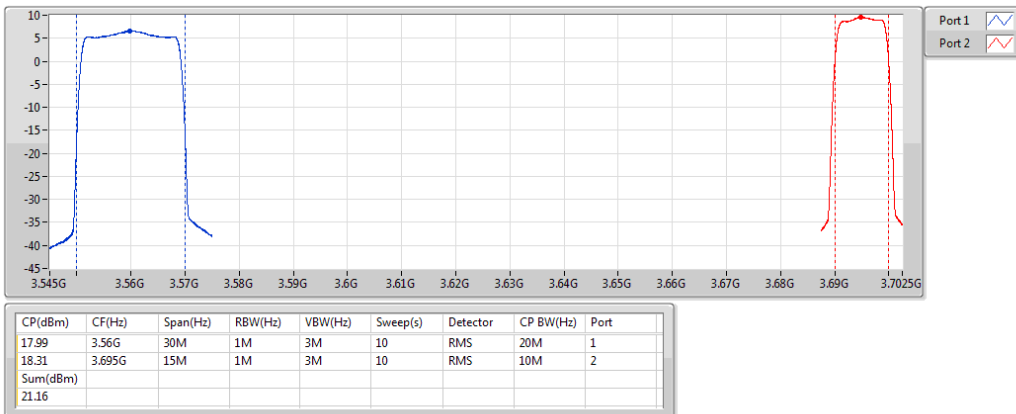
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX

PowerAV

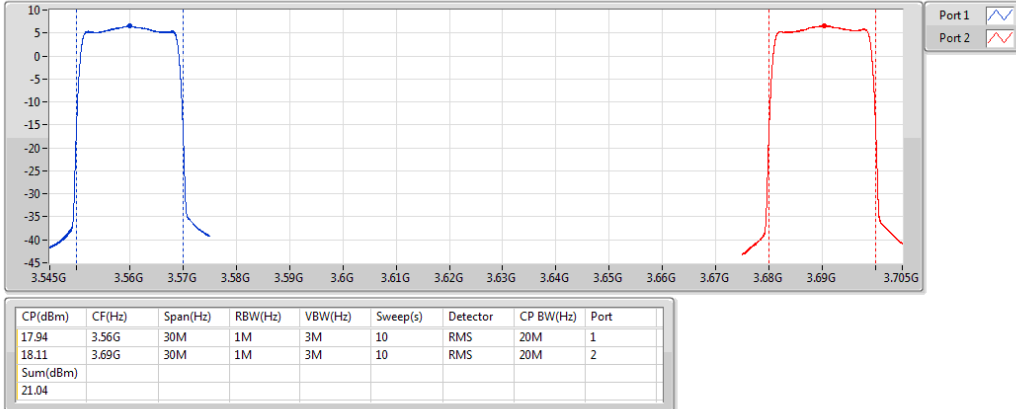
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX

PowerAV

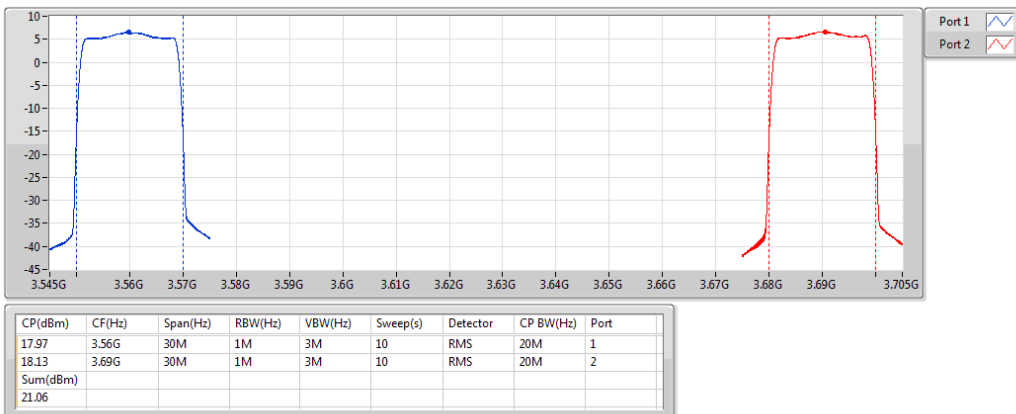
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX

PowerAV

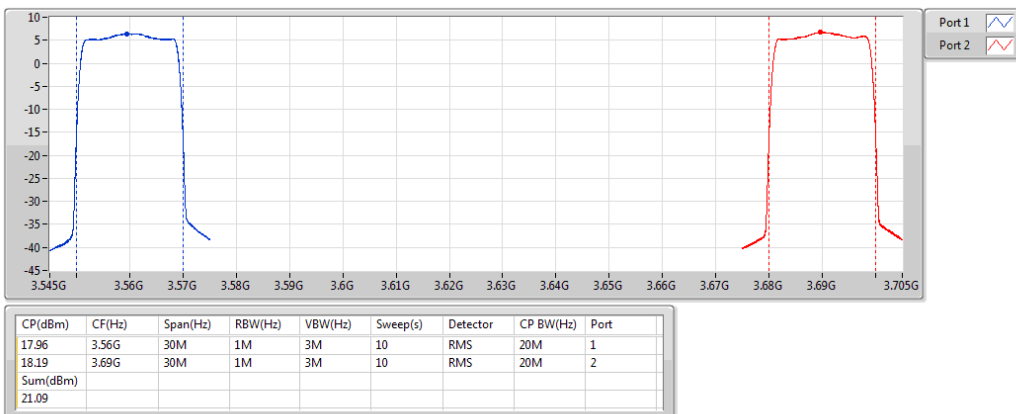
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX

PowerAV

P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



3.1.8 Test Result of PSD (CA Mode)

Multi-carrier Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	10.46	23.23
LTE_10MHz+10MHz_Nss1,16QAM_2TX	10.45	23.22
LTE_10MHz+10MHz_Nss1,64QAM_2TX	10.32	23.09
LTE_10MHz+20MHz_Nss1,QPSK_2TX	10.36	23.13
LTE_10MHz+20MHz_Nss1,16QAM_2TX	10.39	23.16
LTE_10MHz+20MHz_Nss1,64QAM_2TX	10.46	23.23
LTE_20MHz+10MHz_Nss1,QPSK_2TX	9.35	22.12
LTE_20MHz+10MHz_Nss1,16QAM_2TX	9.42	22.19
LTE_20MHz+10MHz_Nss1,64QAM_2TX	9.32	22.09
LTE_20MHz+20MHz_Nss1,QPSK_2TX	7.54	20.31
LTE_20MHz+20MHz_Nss1,16QAM_2TX	7.45	20.22
LTE_20MHz+20MHz_Nss1,64QAM_2TX	7.45	20.22

Result

Mode	Result	DG (dBi)	PD (dBm/MHz)	PD Limit (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)	1Carrier Port 1 (dBm/MHz)	2Carrier Port 2 (dBm/MHz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	10.46	Inf	23.23	37.00	10.46	9.54
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	10.45	Inf	23.22	37.00	10.45	9.76
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	12.77	10.32	Inf	23.09	37.00	10.32	9.74
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	10.36	Inf	23.13	37.00	10.36	6.83
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	10.39	Inf	23.16	37.00	10.39	6.65
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	12.77	10.46	Inf	23.23	37.00	10.46	6.70
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	9.35	Inf	22.12	37.00	7.44	9.34
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	9.42	Inf	22.19	37.00	7.45	9.41
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	12.77	9.32	Inf	22.09	37.00	7.43	9.31
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	7.54	Inf	20.31	37.00	7.54	6.61
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	7.45	Inf	20.22	37.00	7.45	6.61
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	12.77	7.45	Inf	20.22	37.00	7.45	6.56

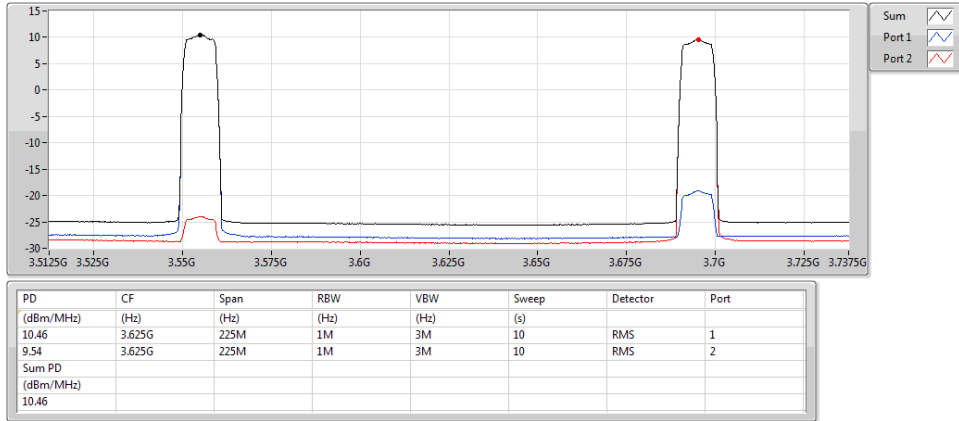
DG = Directional Gain;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX

PSD

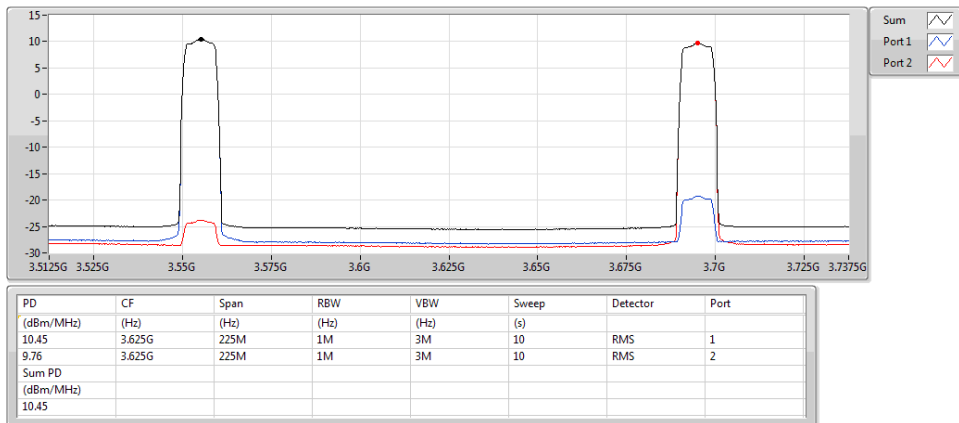
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX

PSD

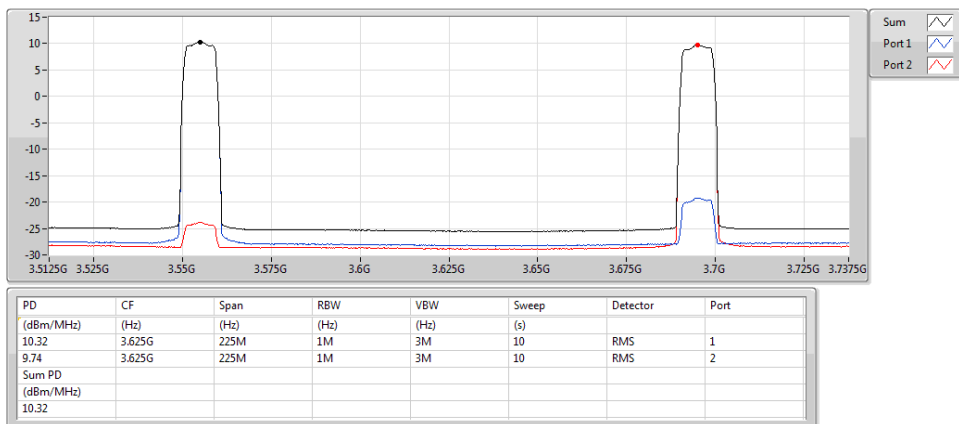
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX

PSD

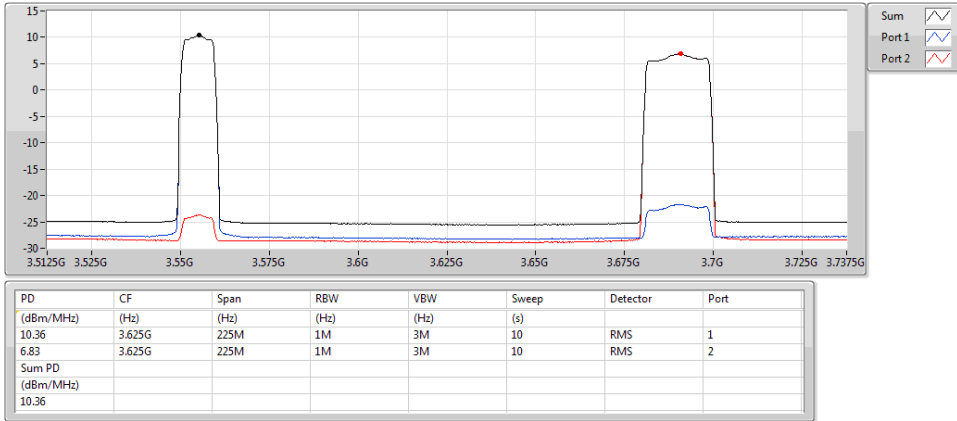
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



Band 48 LTE 10MHz+20MHz_Nss1,QPSK_2TX

PSD

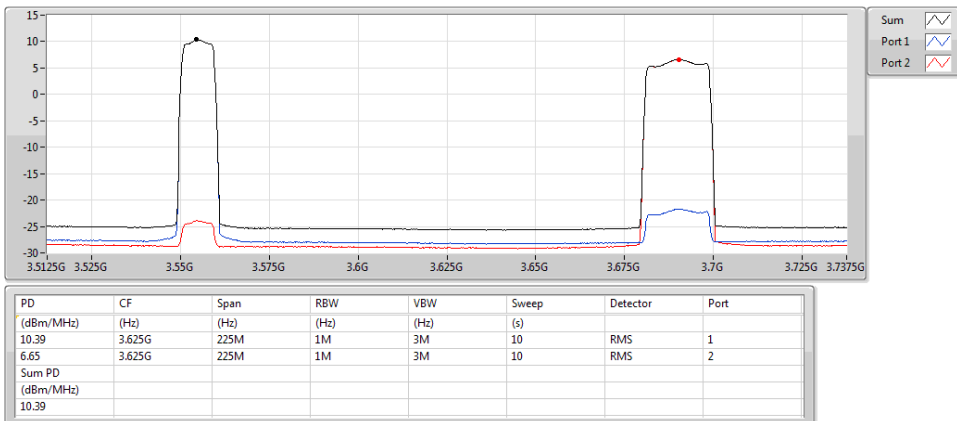
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



Band 48 LTE 10MHz+20MHz_Nss1,16QAM_2TX

PSD

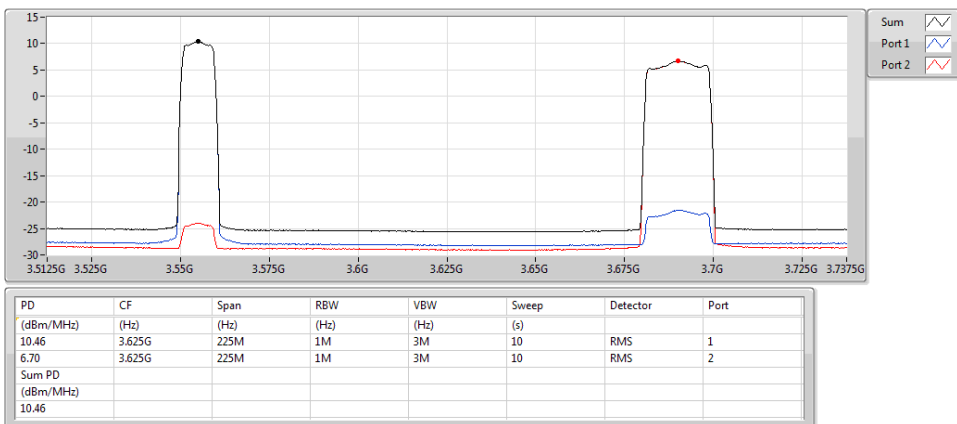
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



Band 48 LTE 10MHz+20MHz_Nss1,64QAM_2TX

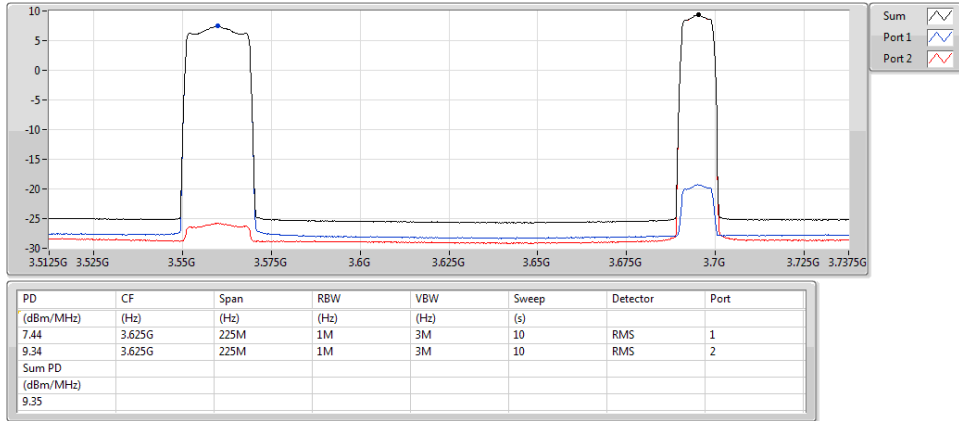
PSD

P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



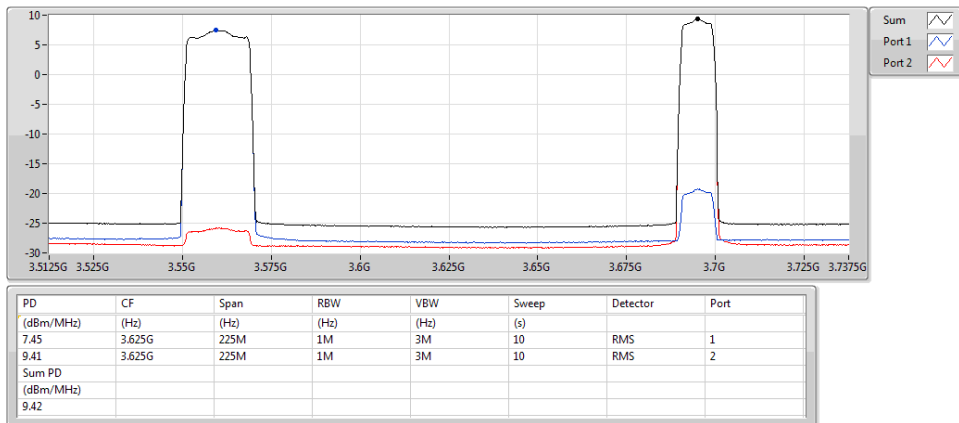
Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0

PSD



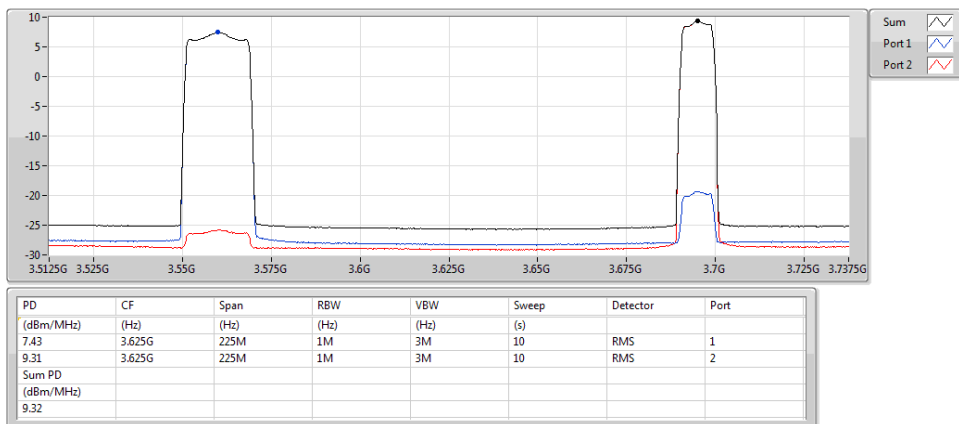
Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0

PSD



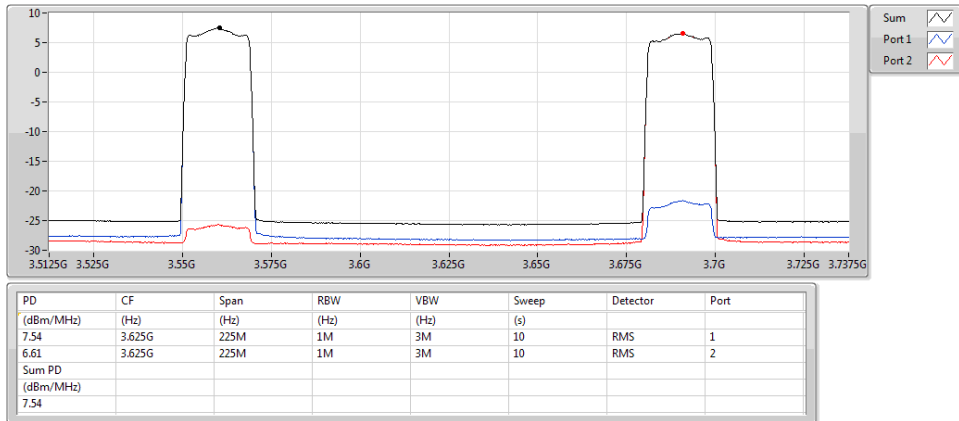
Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0

PSD



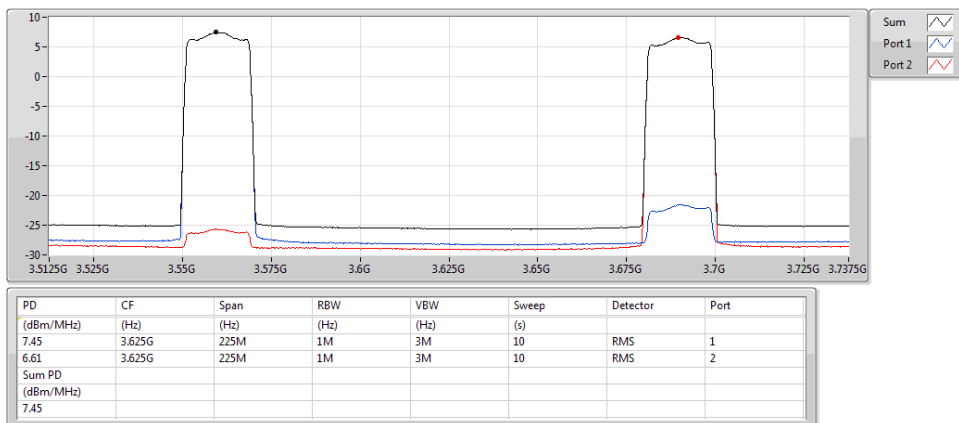
Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

PSD



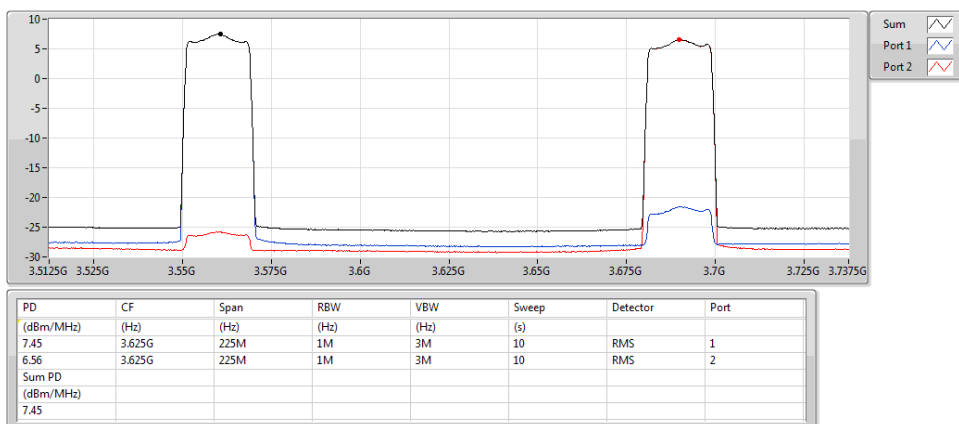
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

PSD



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PSD



3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

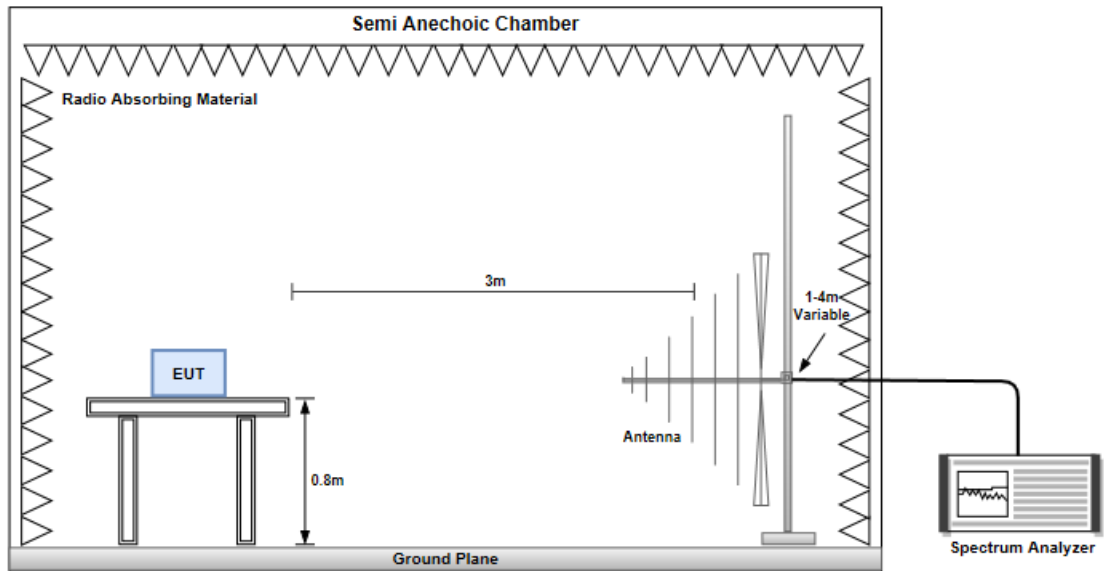
Frequency range	Limit (dBm/MHz)
Within 0-10 MHz above the Assigned Channel Within 0-10 MHz below the assigned Channel	-13
Greater than 10 MHz above the Assigned Channel Greater than 10 MHz below the Assigned Channel	-25
Power of any Emission below 3530 MHz Power of any Emission above 3720 MHz	-40

3.2.2 Test Procedures

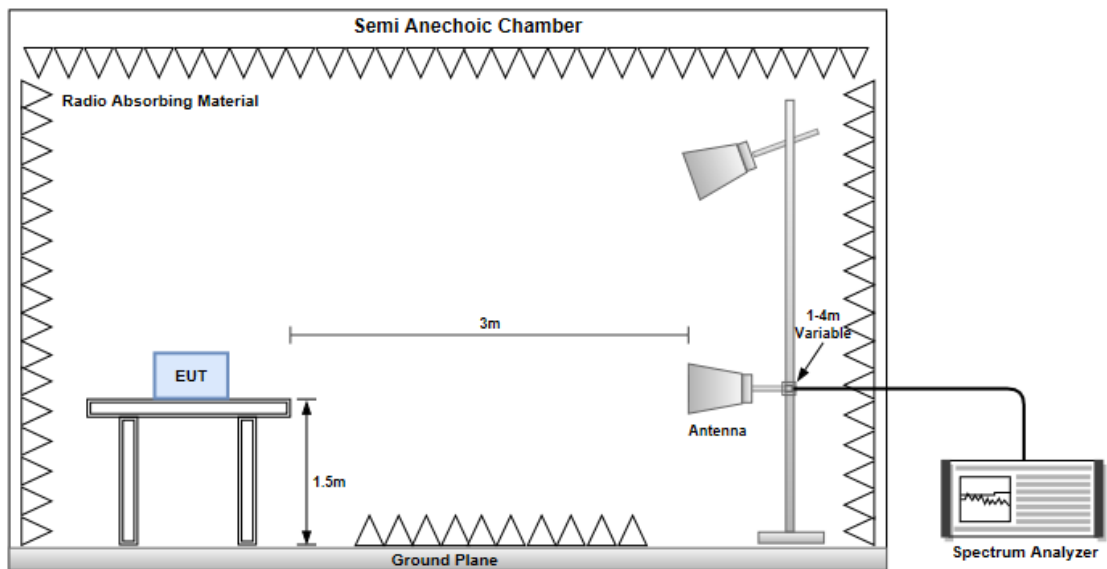
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable. ERP can be calculated by below formula:

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz (CDD Mode)

Mode							
LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 55990							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.90	H	-59.20	-40.00	-19.20	-57.99	-54.13	-5.07
124.09	H	-64.37	-40.00	-24.37	-63.21	-57.76	-6.61
195.87	H	-64.09	-40.00	-24.09	-60.47	-61.21	-2.88
249.22	H	-68.52	-40.00	-28.52	-65.26	-67.02	-1.50
358.83	H	-65.18	-40.00	-25.18	-66.89	-63.84	-1.34
624.61	H	-59.82	-40.00	-19.82	-64.51	-58.00	-1.82
97.90	V	-54.14	-40.00	-14.14	-54.91	-49.07	-5.07
164.83	V	-59.50	-40.00	-19.50	-62.28	-53.43	-6.07
221.09	V	-62.27	-40.00	-22.27	-63.44	-60.21	-2.06
249.22	V	-62.44	-40.00	-22.44	-64.24	-60.94	-1.50
358.83	V	-61.31	-40.00	-21.31	-63.11	-59.97	-1.34
624.61	V	-56.11	-40.00	-16.11	-63.89	-54.29	-1.82

NOTE: EIRP = S.G power value + correction factor

Mode							
LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 55990							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
97.90	H	-58.40	-40.00	-18.40	-57.19	-53.33	-5.07
135.73	H	-63.24	-40.00	-23.24	-62.43	-56.27	-6.97
183.26	H	-65.35	-40.00	-25.35	-63.93	-61.24	-4.11
358.83	H	-64.73	-40.00	-24.73	-66.44	-63.39	-1.34
499.48	H	-66.69	-40.00	-26.69	-69.58	-65.26	-1.43
624.61	H	-60.23	-40.00	-20.23	-64.92	-58.41	-1.82
67.83	V	-57.65	-40.00	-17.65	-56.80	-46.08	-11.57
97.90	V	-53.63	-40.00	-13.63	-54.40	-48.56	-5.07
163.86	V	-60.04	-40.00	-20.04	-62.81	-53.87	-6.17
224.00	V	-63.18	-40.00	-23.18	-64.42	-61.18	-2.00
358.83	V	-60.50	-40.00	-20.50	-62.30	-59.16	-1.34
624.61	V	-56.13	-40.00	-16.13	-63.91	-54.31	-1.82

NOTE: EIRP = S.G power value + correction factor

3.2.5 Test Result of Radiated Emissions above 1GHz (CDD Mode)

Mode							
LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 55290							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110.00	H	-43.68	-40.00	-3.68	-61.42	-47.74	4.06
10665.00	H	-48.54	-40.00	-8.54	-71.21	-49.68	1.14
7110.00	V	-44.33	-40.00	-4.33	-65.10	-48.39	4.06
10665.00	V	-49.34	-40.00	-9.34	-71.13	-50.48	1.14

Mode							
LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 55990							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7250.00	H	-41.05	-40.00	-1.05	-60.83	-44.60	3.55
10875.00	H	-48.95	-40.00	-8.95	-71.42	-49.94	0.99
7250.00	V	-41.41	-40.00	-1.41	-62.29	-44.96	3.55
10875.00	V	-48.78	-40.00	-8.78	-70.93	-49.77	0.99

Mode							
LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 56690							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7390.00	H	-41.21	-40.00	-1.21	-61.02	-44.55	3.34
11085.00	H	-48.96	-40.00	-8.96	-71.43	-49.86	0.90
7390.00	V	-41.44	-40.00	-1.44	-61.75	-44.78	3.34
11085.00	V	-48.87	-40.00	-8.87	-71.37	-49.77	0.90

NOTE: EIRP = S.G power value + correction factor

Mode							
LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 55340							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120.00	H	-43.77	-40.00	-3.77	-63.51	-47.78	4.01
10680.00	H	-48.37	-40.00	-8.37	-71.02	-49.50	1.13
7120.00	V	-44.22	-40.00	-4.22	-65.03	-48.23	4.01
10680.00	V	-49.46	-40.00	-9.46	-71.28	-50.59	1.13

Mode							
LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 55990							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7250.00	H	-41.07	-40.00	-1.07	-60.85	-44.62	3.55
10875.00	H	-48.74	-40.00	-8.74	-71.21	-49.73	0.99
7250.00	V	-41.33	-40.00	-1.33	-62.21	-44.88	3.55
10875.00	V	-48.69	-40.00	-8.69	-70.84	-49.68	0.99

Mode							
LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 56640							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7380.00	H	-41.32	-40.00	-1.32	-61.12	-44.67	3.35
11070.00	H	-48.89	-40.00	-8.89	-71.35	-49.79	0.90
7380.00	V	-41.30	-40.00	-1.30	-61.65	-44.65	3.35
11070.00	V	-48.57	-40.00	-8.57	-71.05	-49.47	0.90

NOTE: EIRP = S.G power value + correction factor

3.2.6 Test Result of Radiated Emissions below 1GHz (CA Mode)

Mode	LTE Band 48, 64QAM, CB:10+10 MHz, 50+50 RB Offset 0, Channel: 55290+56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
67.83	H	-62.15	-40.00	-22.15	-62.05	-50.58	-11.57
97.90	H	-60.38	-40.00	-20.38	-59.17	-55.31	-5.07
164.83	H	-64.29	-40.00	-24.29	-63.57	-58.22	-6.07
187.14	H	-64.51	-40.00	-24.51	-62.41	-60.78	-3.73
358.83	H	-60.40	-40.00	-20.40	-62.11	-59.06	-1.34
624.61	H	-59.93	-40.00	-19.93	-64.62	-58.11	-1.82
66.86	V	-58.21	-40.00	-18.21	-57.87	-46.31	-11.90
97.90	V	-53.84	-40.00	-13.84	-54.61	-48.77	-5.07
164.83	V	-58.96	-40.00	-18.96	-61.74	-52.89	-6.07
196.84	V	-62.10	-40.00	-22.10	-63.13	-59.31	-2.79
358.83	V	-62.57	-40.00	-22.57	-64.37	-61.23	-1.34
624.61	V	-56.33	-40.00	-16.33	-64.11	-54.51	-1.82

NOTE: EIRP = S.G power value + correction factor

Mode	LTE Band 48, QPSK, CB:10+20 MHz, 50+100 RB Offset 0, Channel: 55290+56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
67.71	H	-62.12	-40.00	-22.12	-62.02	-50.55	-11.57
97.30	H	-59.02	-40.00	-19.02	-57.81	-53.95	-5.07
135.73	H	-63.79	-40.00	-23.79	-62.98	-56.82	-6.97
194.90	H	-63.42	-40.00	-23.42	-59.97	-60.44	-2.98
358.71	H	-66.40	-40.00	-26.40	-68.11	-65.06	-1.34
624.38	H	-59.65	-40.00	-19.65	-64.34	-57.83	-1.82
66.54	V	-58.77	-40.00	-18.77	-58.43	-46.87	-11.90
97.81	V	-54.08	-40.00	-14.08	-54.85	-49.01	-5.07
164.89	V	-59.44	-40.00	-19.44	-62.22	-53.37	-6.07
223.03	V	-62.10	-40.00	-22.10	-63.32	-60.08	-2.02
358.66	V	-60.47	-40.00	-20.47	-62.27	-59.13	-1.34
624.57	V	-56.26	-40.00	-16.26	-64.04	-54.44	-1.82

NOTE: EIRP = S.G power value + correction factor

Mode	LTE Band 48, 64QAM, CB:20+10 MHz, 100+50 RB Offset 0, Channel: 55340+56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
33.88	H	-62.14	-40.00	-22.14	-70.65	-43.26	-18.88
97.26	H	-60.84	-40.00	-20.84	-59.63	-55.77	-5.07
136.25	H	-43.92	-40.00	-3.92	-63.14	-36.92	-7.00
193.06	H	-62.47	-40.00	-22.47	-59.36	-59.30	-3.17
358.79	H	-65.13	-40.00	-25.13	-66.84	-63.79	-1.34
624.51	H	-59.34	-40.00	-19.34	-64.03	-57.52	-1.82
67.73	V	-59.43	-40.00	-19.43	-58.58	-47.86	-11.57
97.48	V	-55.40	-40.00	-15.40	-56.17	-50.33	-5.07
158.04	V	-59.97	-40.00	-19.97	-62.66	-53.33	-6.64
195.87	V	-61.75	-40.00	-21.75	-62.89	-58.87	-2.88
358.16	V	-59.90	-40.00	-19.90	-61.70	-58.56	-1.34
624.43	V	-57.38	-40.00	-17.38	-65.16	-55.56	-1.82

NOTE: EIRP = S.G power value + correction factor

Mode	LTE Band 48, 64QAM, CB:20+20 MHz, 100+100 RB Offset 0, Channel: 55340+56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
67.43	H	-61.66	-40.00	-21.66	-61.56	-50.09	-11.57
97.34	H	-60.55	-40.00	-20.55	-59.34	-55.48	-5.07
138.55	H	-64.12	-40.00	-24.12	-63.41	-57.06	-7.06
195.12	H	-65.60	-40.00	-25.60	-61.98	-62.72	-2.88
354.96	H	-67.85	-40.00	-27.85	-69.53	-66.52	-1.33
624.01	H	-59.23	-40.00	-19.23	-63.92	-57.41	-1.82
67.91	V	-59.77	-40.00	-19.77	-58.92	-48.20	-11.57
98.04	V	-54.51	-40.00	-14.51	-55.28	-49.44	-5.07
164.51	V	-60.13	-40.00	-20.13	-62.91	-54.06	-6.07
195.14	V	-62.46	-40.00	-22.46	-63.60	-59.58	-2.88
358.49	V	-63.17	-40.00	-23.17	-64.97	-61.83	-1.34
624.38	V	-57.24	-40.00	-17.24	-65.02	-55.42	-1.82

NOTE: EIRP = S.G power value + correction factor

3.2.7 Test Result of Radiated Emissions above 1GHz (CA Mode)

Mode							
LTE Band 48, 64QAM, CB:10+10 MHz, 50+50 RB Offset 0, Channel: 55290+56690							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110.00	H	-41.85	-40.00	-1.85	-61.59	-45.91	4.06
7390.00	H	-43.82	-40.00	-3.82	-63.63	-47.16	3.34
10665.00	H	-48.86	-40.00	-8.86	-71.53	-50.00	1.14
11085.00	H	-49.07	-40.00	-9.07	-71.54	-49.97	0.90
7110.00	V	-42.63	-40.00	-2.63	-63.40	-46.69	4.06
7390.00	V	-44.57	-40.00	-4.57	-64.88	-47.91	3.34
10665.00	V	-49.83	-40.00	-9.83	-71.62	-50.97	1.14
11085.00	V	-49.07	-40.00	-9.07	-71.57	-49.97	0.90

NOTE: EIRP = S.G power value + correction factor

Mode							
LTE Band 48, QPSK, CB:10+20 MHz, 50+100 RB Offset 0, Channel: 55290+56690							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110.00	H	-41.82	-40.00	-1.82	-61.56	-45.88	4.06
7380.00	H	-43.31	-40.00	-3.31	-63.11	-46.66	3.35
10665.00	H	-48.81	-40.00	-8.81	-71.48	-49.95	1.14
11070.00	H	-48.79	-40.00	-8.79	-71.25	-49.69	0.90
7110.00	V	-42.68	-40.00	-2.68	-63.45	-46.74	4.06
7380.00	V	-44.31	-40.00	-4.31	-64.66	-47.66	3.35
10665.00	V	-49.46	-40.00	-9.46	-71.25	-50.60	1.14
11070.00	V	-48.89	-40.00	-8.89	-71.37	-49.79	0.90

NOTE: EIRP = S.G power value + correction factor

Mode							
LTE Band 48, 64QAM, CB:20+10 MHz, 100+50 RB Offset 0, Channel: 55340+56690							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120.00	H	-41.56	-40.00	-1.56	-61.30	-45.57	4.01
7390.00	H	-43.35	-40.00	-3.35	-63.16	-46.69	3.34
10680.00	H	-48.69	-40.00	-8.69	-71.34	-49.82	1.13
11085.00	H	-48.89	-40.00	-8.89	-71.36	-49.79	0.90
7120.00	V	-42.55	-40.00	-2.55	-63.36	-46.56	4.01
7390.00	V	-44.57	-40.00	-4.57	-64.88	-47.91	3.34
10680.00	V	-49.93	-40.00	-9.93	-71.75	-51.06	1.13
11085.00	V	-48.82	-40.00	-8.82	-71.32	-49.72	0.90

NOTE: EIRP = S.G power value + correction factor

Mode							
LTE Band 48, 64QAM, CB:20+20 MHz, 100+100 RB Offset 0, Channel: 55340+56640							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120.00	H	-41.56	-40.00	-1.56	-61.30	-45.57	4.01
7380.00	H	-43.03	-40.00	-3.03	-62.85	-46.38	3.35
10680.00	H	-49.02	-40.00	-9.02	-71.67	-50.15	1.13
11070.00	H	-49.09	-40.00	-9.09	-71.55	-49.99	0.90
7120.00	V	-42.77	-40.00	-2.77	-63.58	-46.78	4.01
7380.00	V	-44.57	-40.00	-4.57	-64.92	-47.92	3.35
10680.00	V	-49.72	-40.00	-9.72	-71.54	-50.85	1.13
11070.00	V	-48.98	-40.00	-8.98	-71.46	-49.88	0.90

NOTE: EIRP = S.G power value + correction factor

3.3 Conducted Emissions & Band Edge

3.3.1 Limit of Conducted Emissions & Band Edge

Frequency range	Limit (dBm/MHz)
Within 0-10 MHz above the Assigned Channel Within 0-10 MHz below the assigned Channel	-13
Greater than 10 MHz above the Assigned Channel Greater than 10 MHz below the Assigned Channel	-25
Power of any Emission below 3530 MHz Power of any Emission above 3720 MHz	-40

3.3.2 Test Procedures

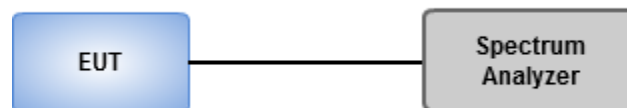
Emission below 3530 MHz / Emission above 3720 MHz

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 37 GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

3530 MHz ~ $(F_c - BW/2) / (F_c + BW/2)$ ~ 3720 MHz

1. Lowest /middle / highest operating channels are tested for this item.
2. The center frequency of spectrum analyzer will be set to Lowest /middle / highest operating channels.
3. Set RBW = 1% of EBW, VBW = 3 x RBW, detector = RMS, sweep time = auto..
4. Using channel power function to measure test result and record the max trace value and capture the test plot.

3.3.3 Test Setup



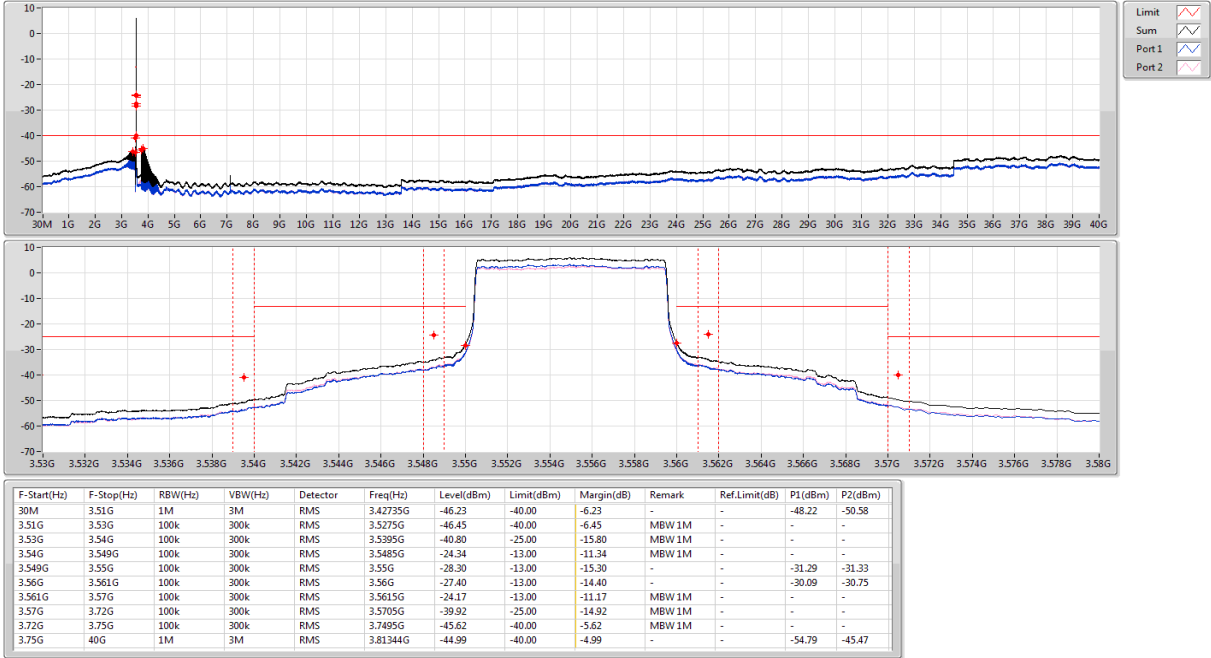
3.3.4 Test Result of Conducted Emissions & Band Edge (CDD Mode)

Single-carrier Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-
3690MHz_QPSK_RB 100,#RB 0	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-41.06	-40.00	-1.06	MBW 1M	-

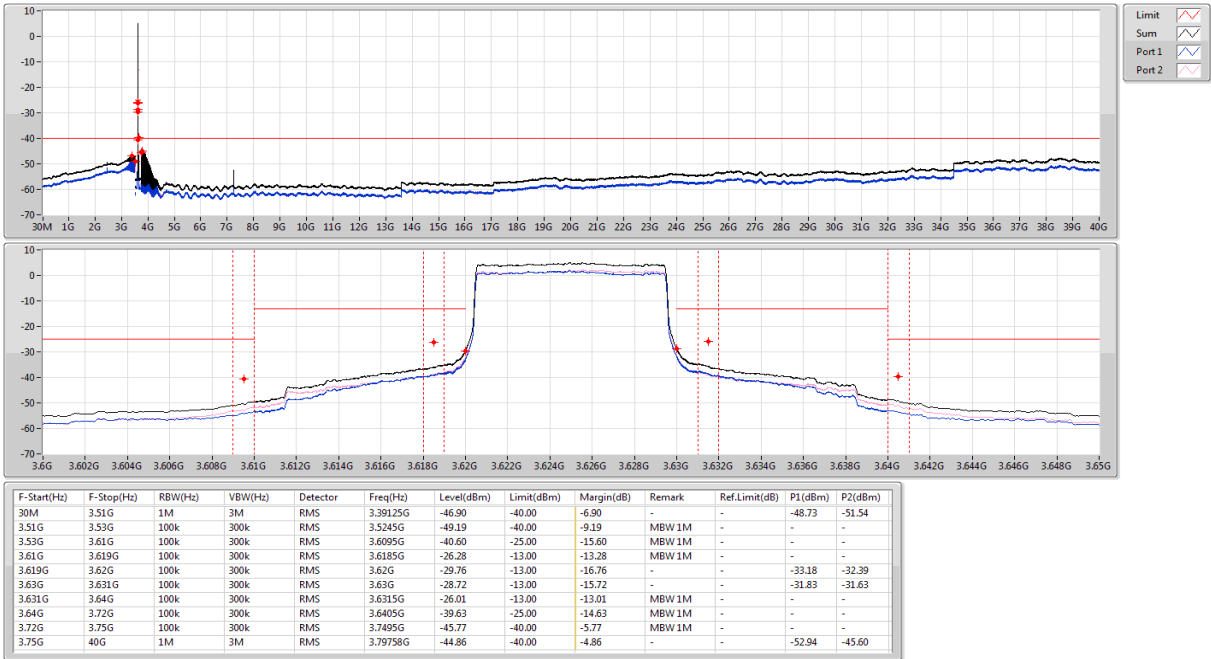
Band 48 LTE 10MHz Nss1,QPSK 2TX
3555MHz QPSK_RB 50,#RB 0

CSE-TX-Sum



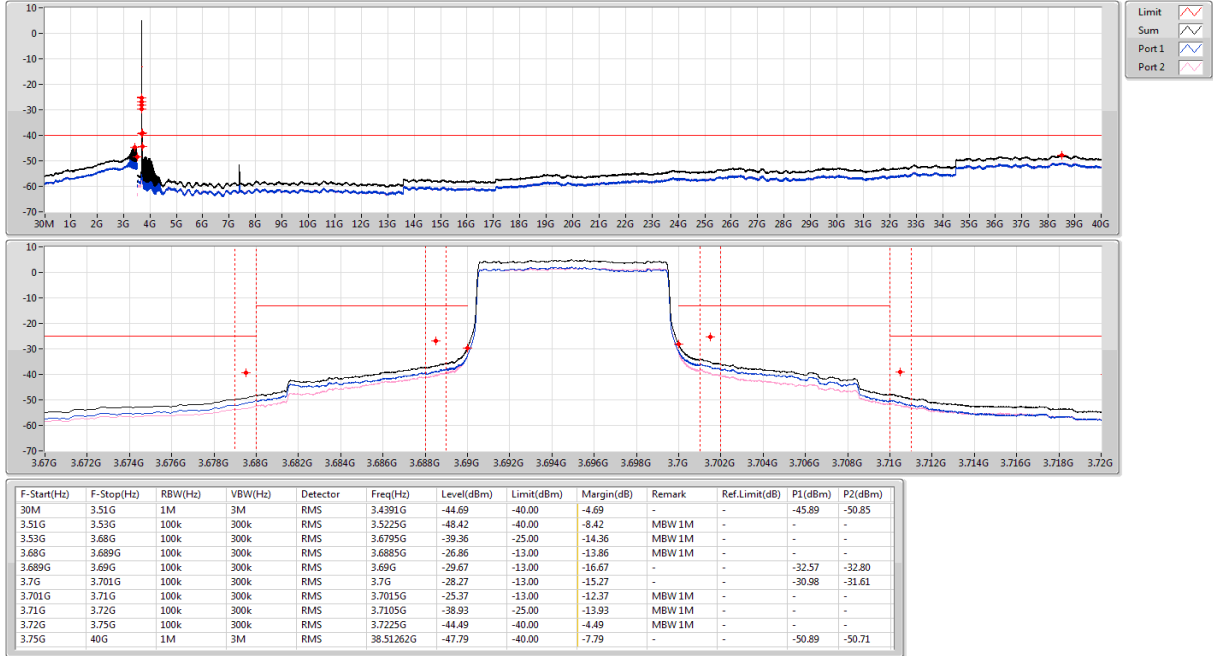
Band 48 LTE 10MHz Nss1,QPSK 2TX
3625MHz QPSK_RB 50,#RB 0

CSE-TX-Sum



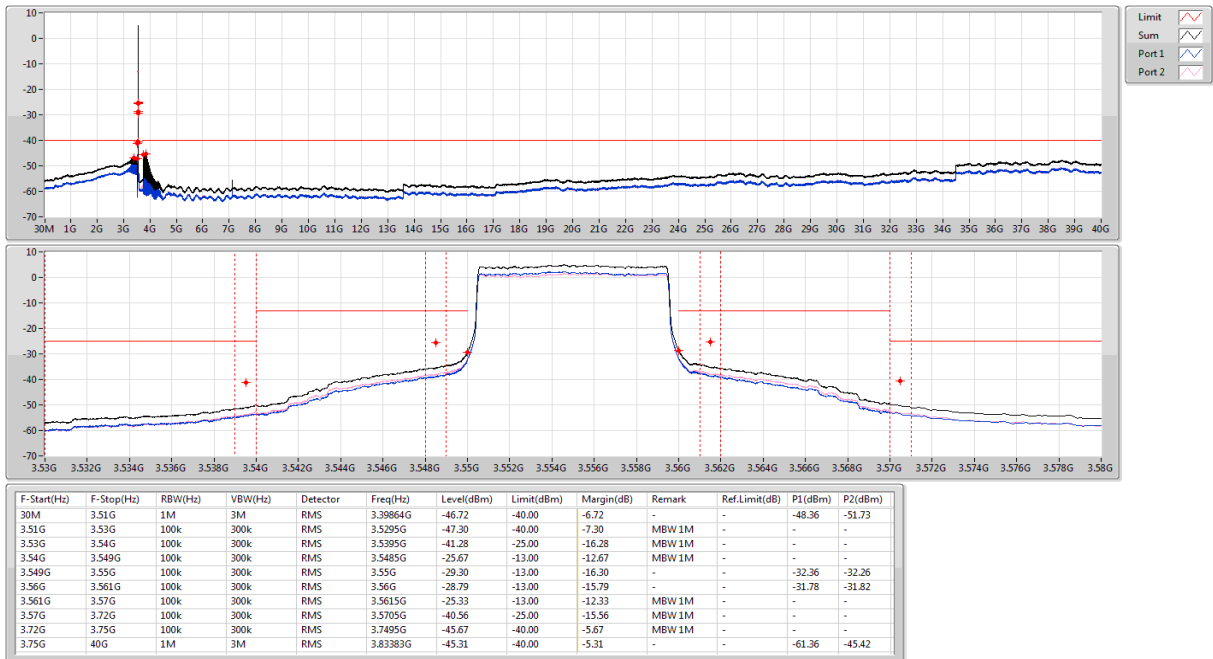
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3695MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



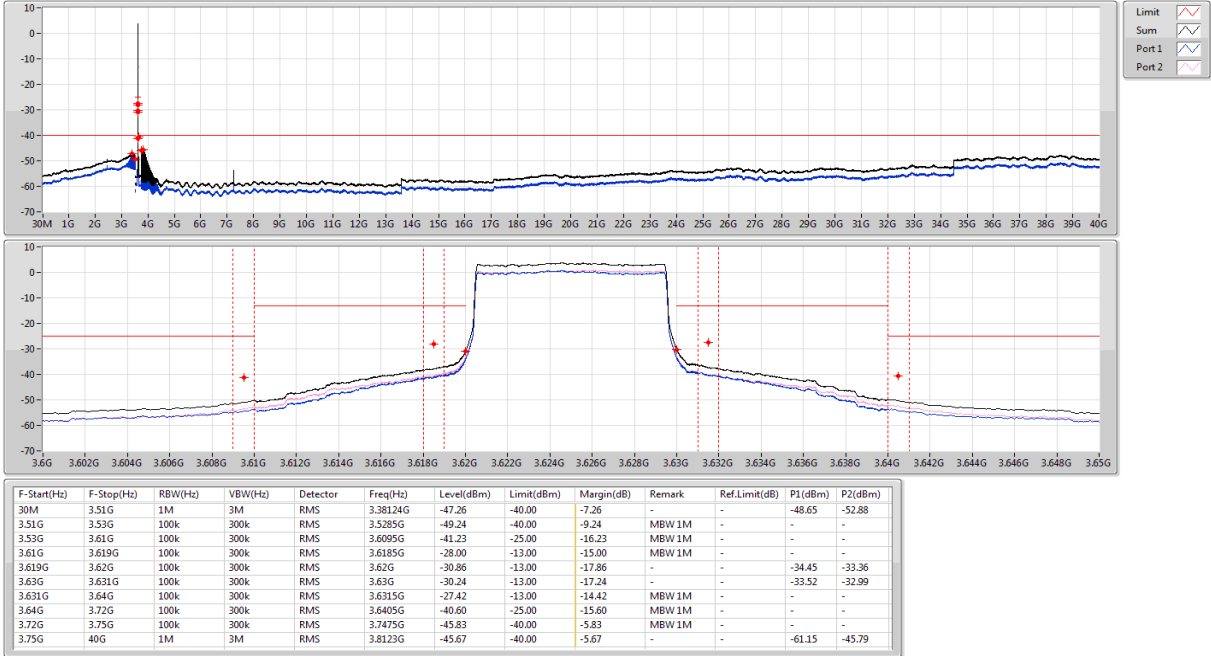
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



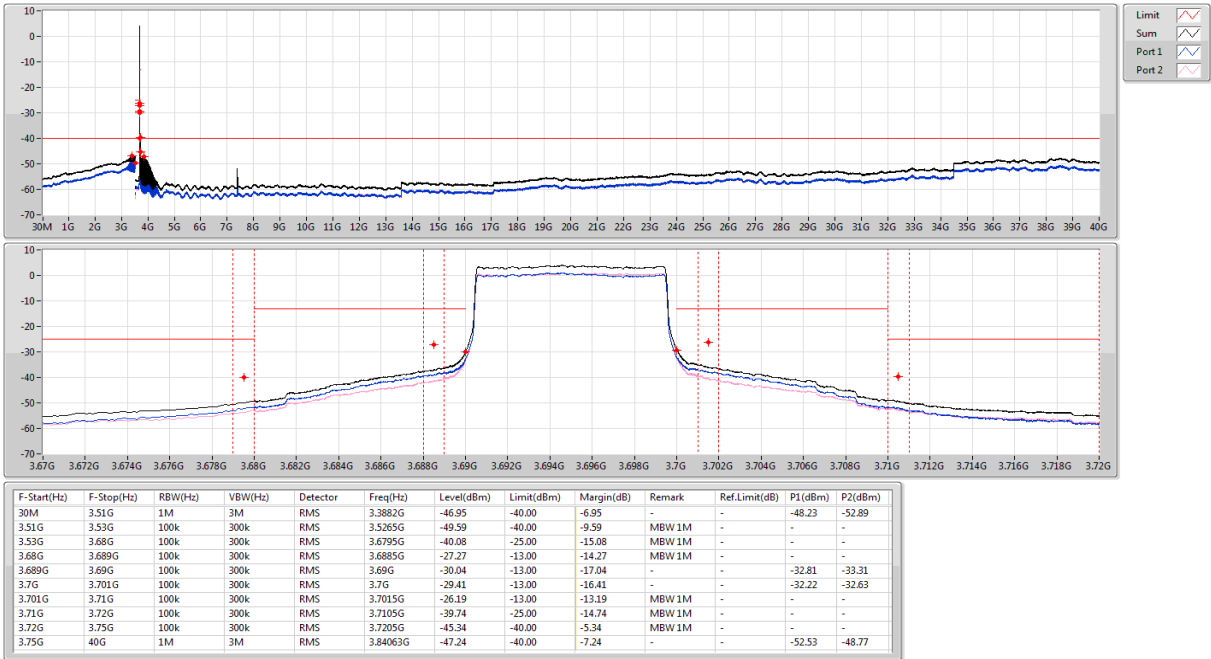
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



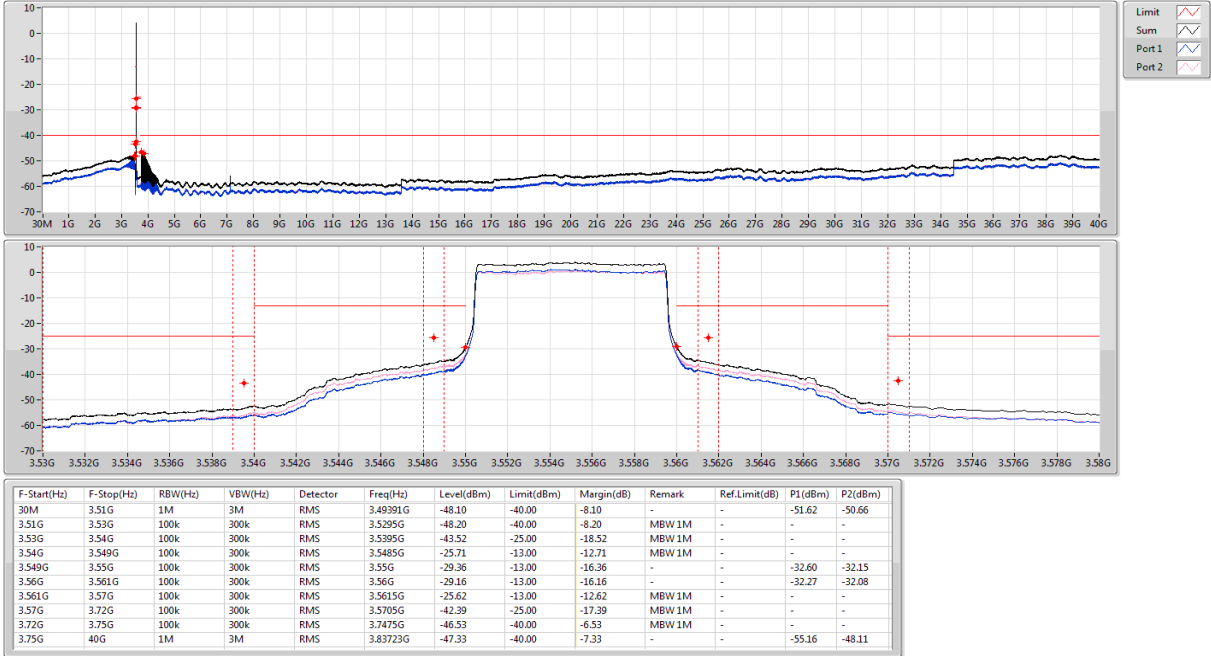
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3695MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



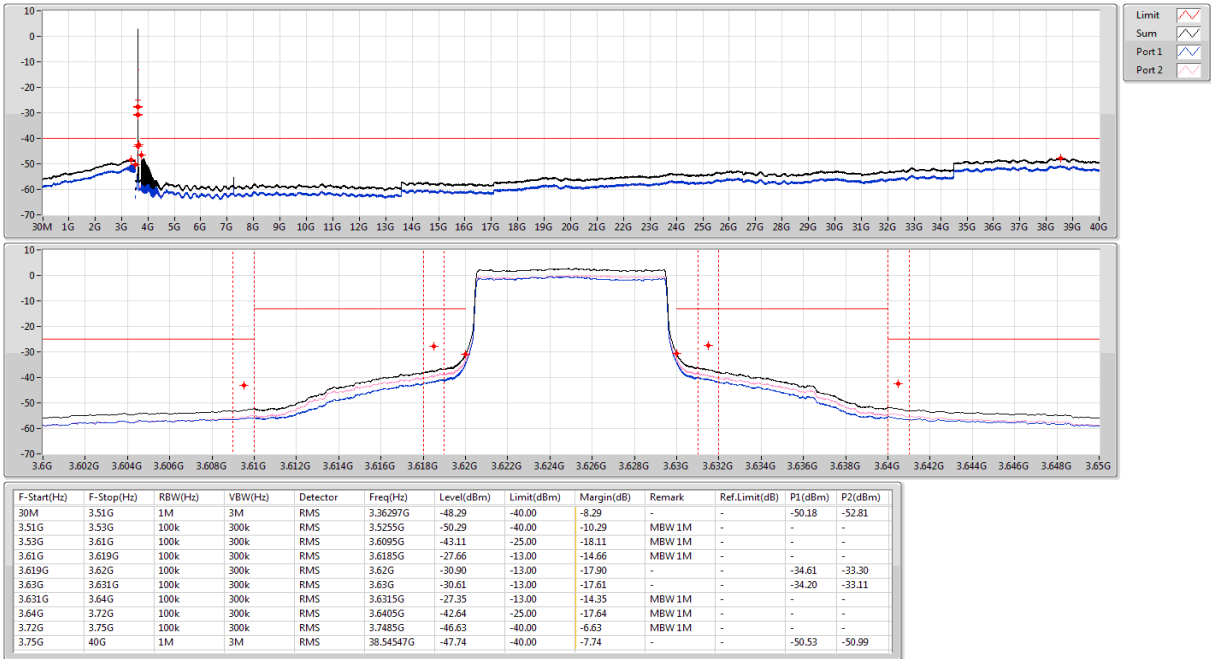
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



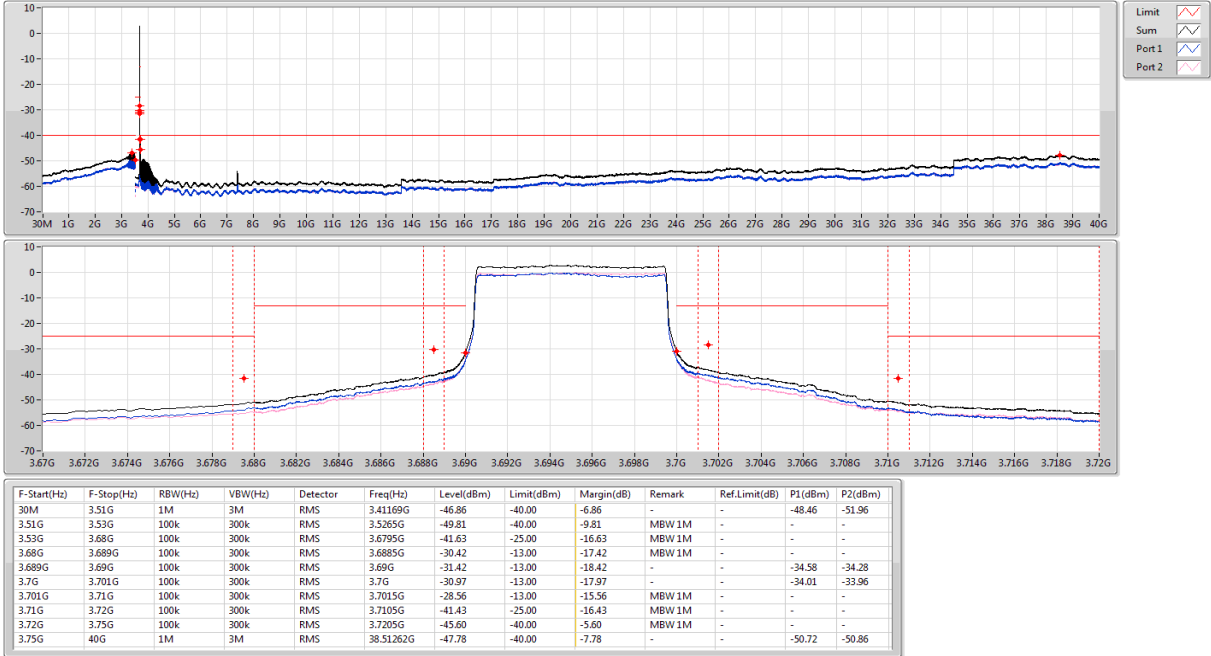
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



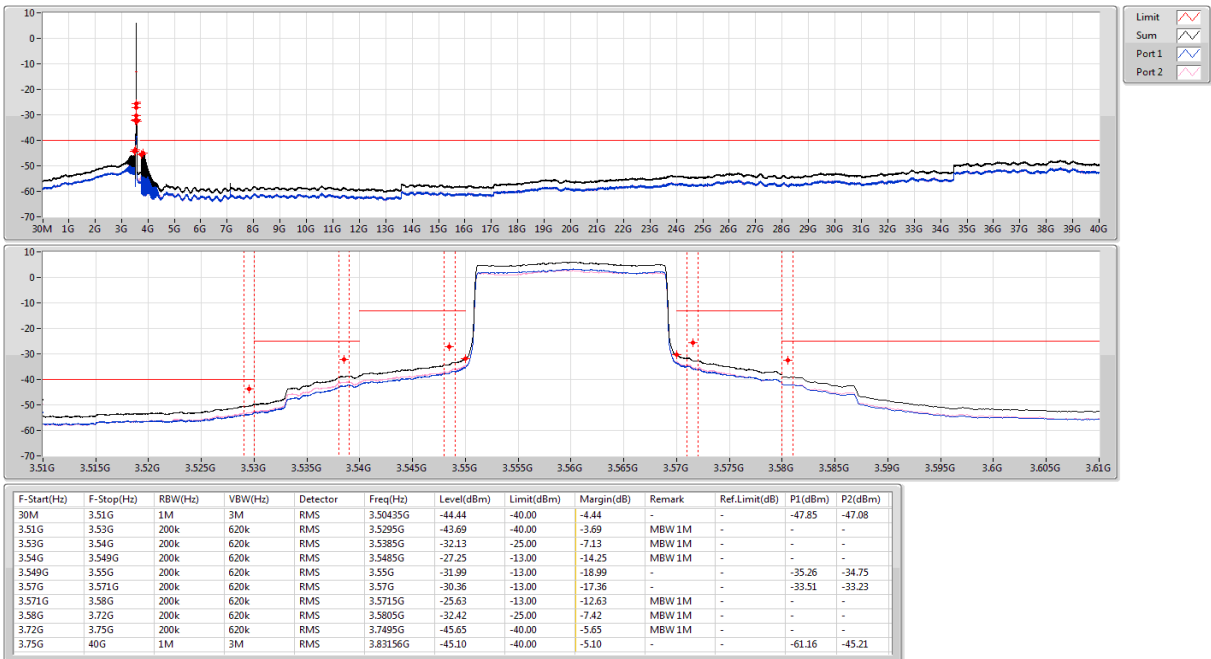
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3695MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



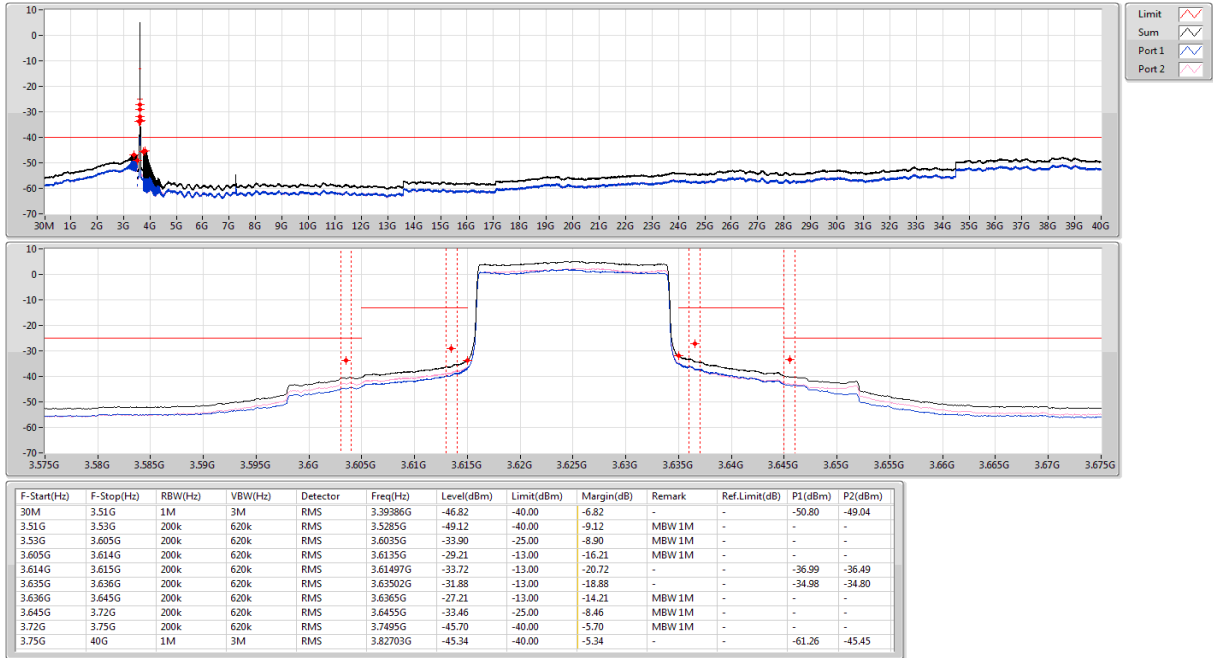
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3560MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



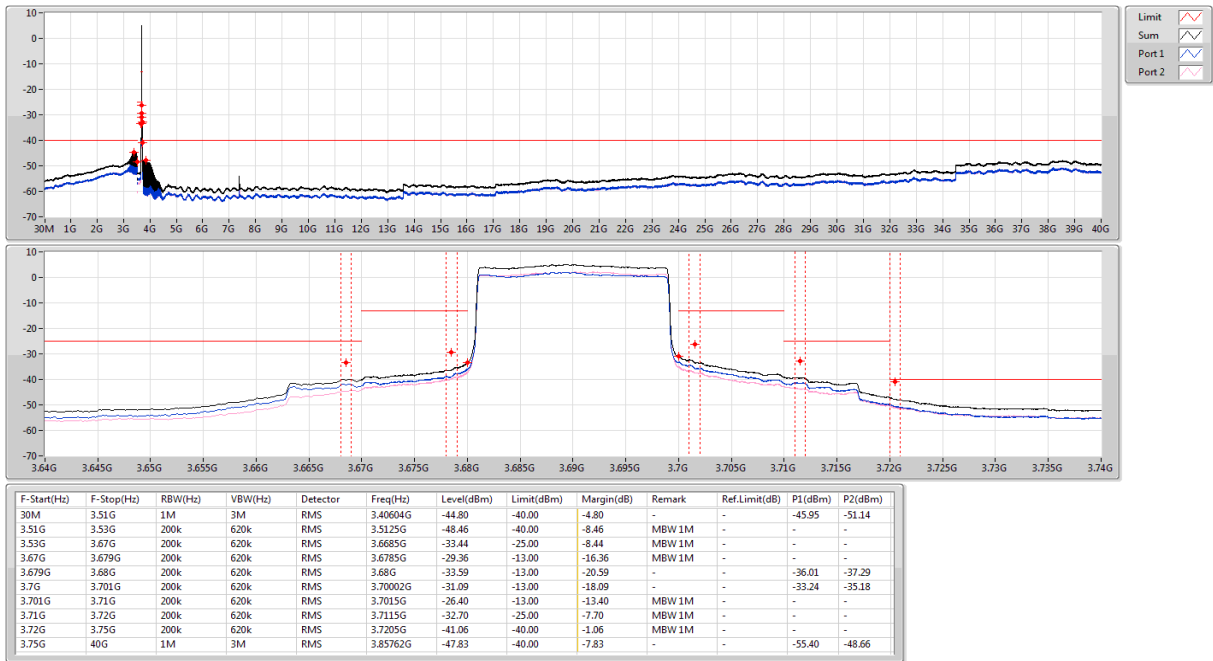
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



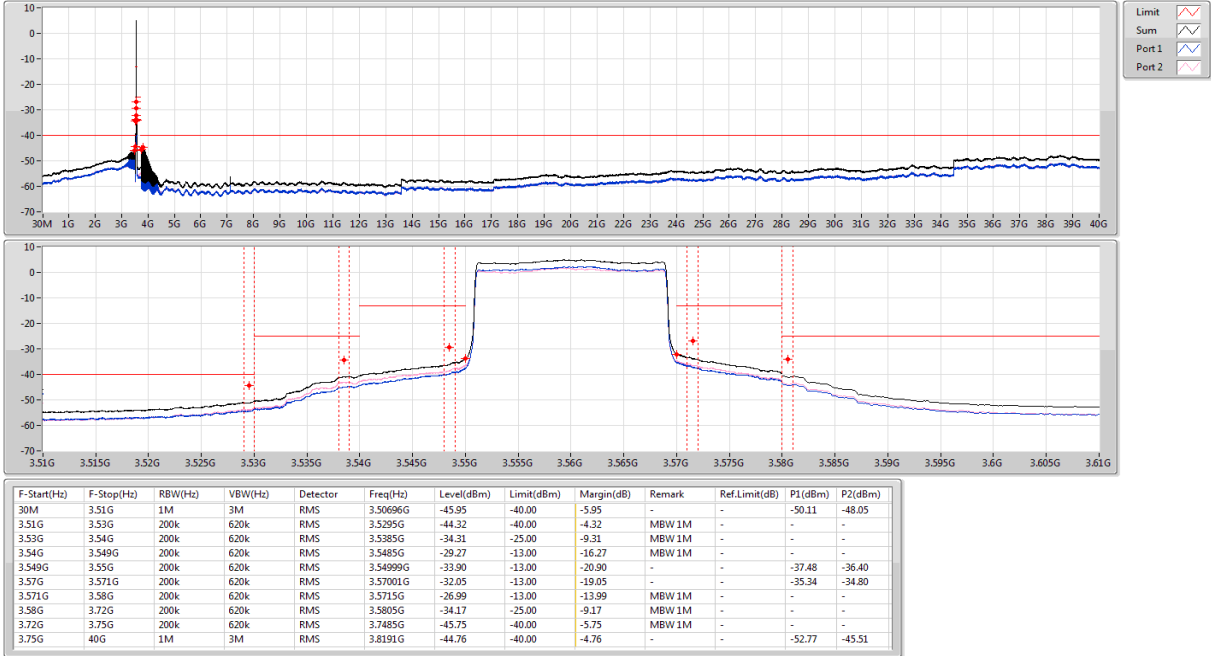
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3690MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



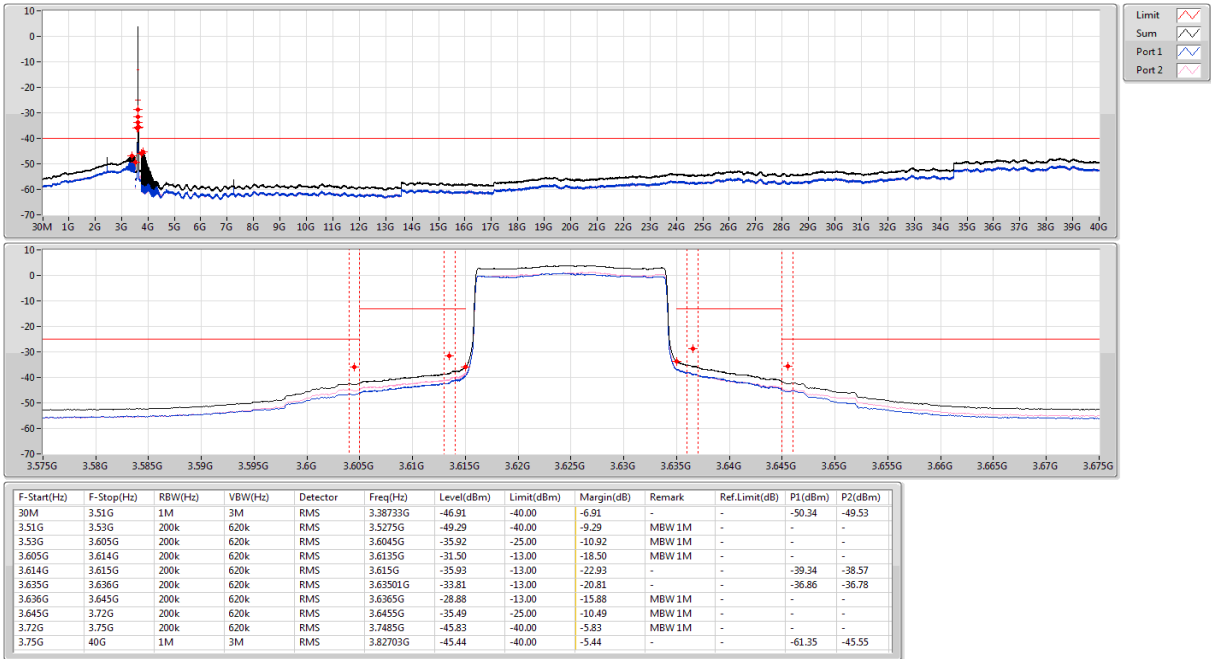
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



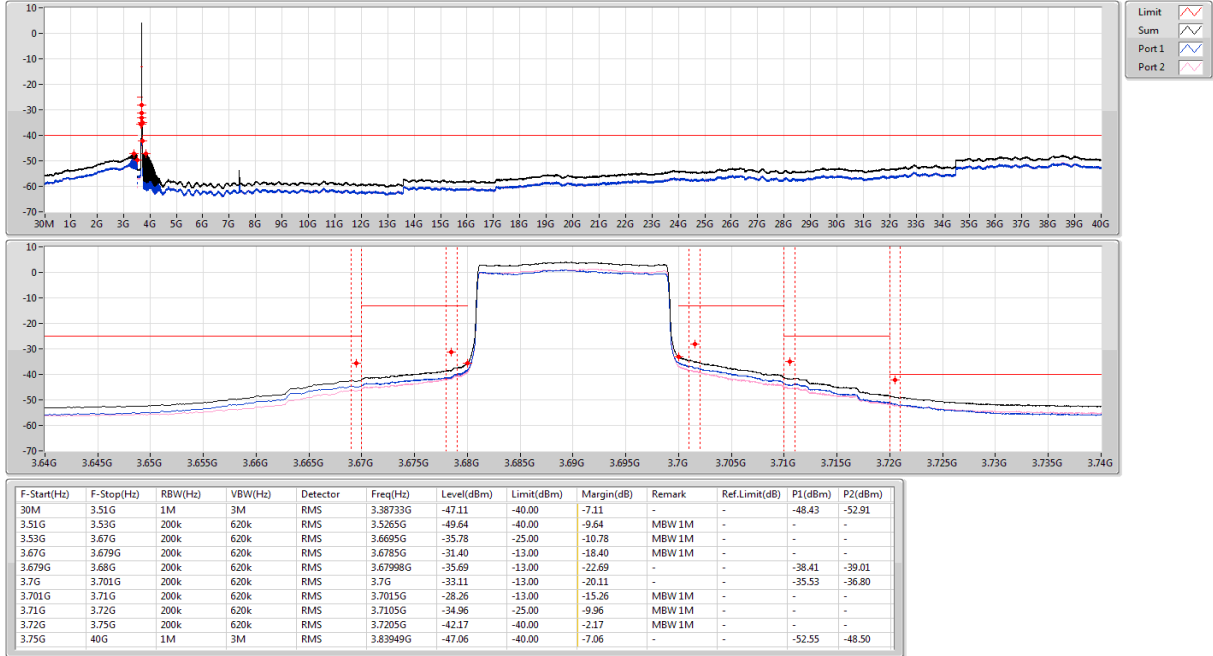
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



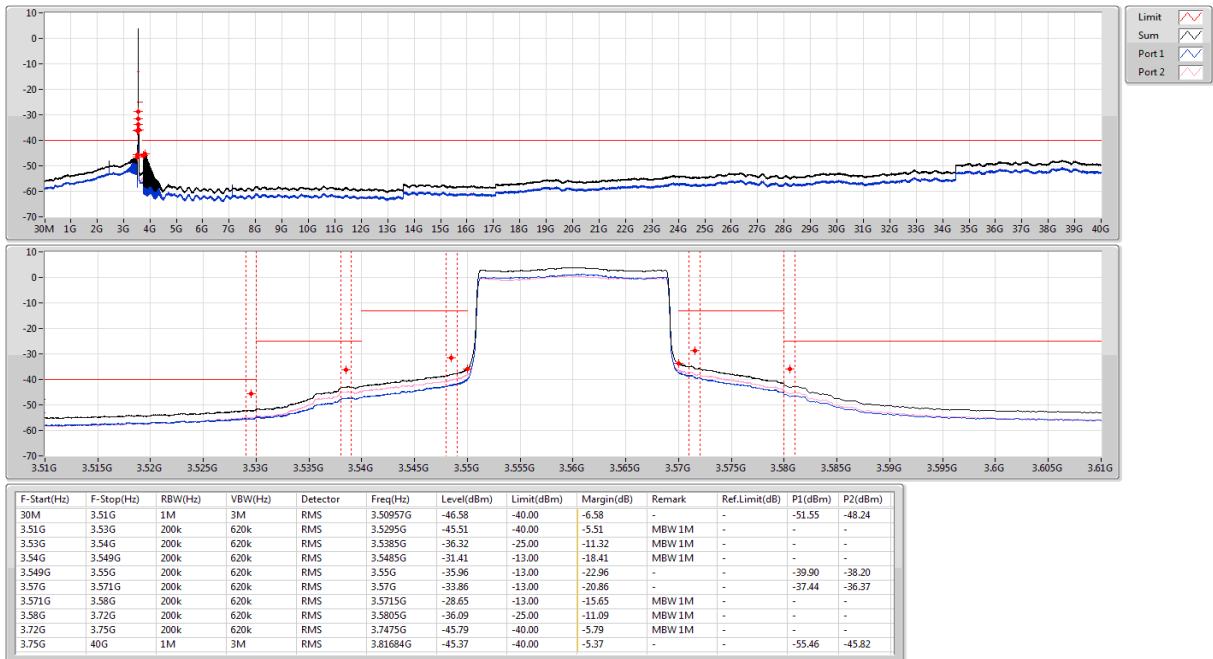
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



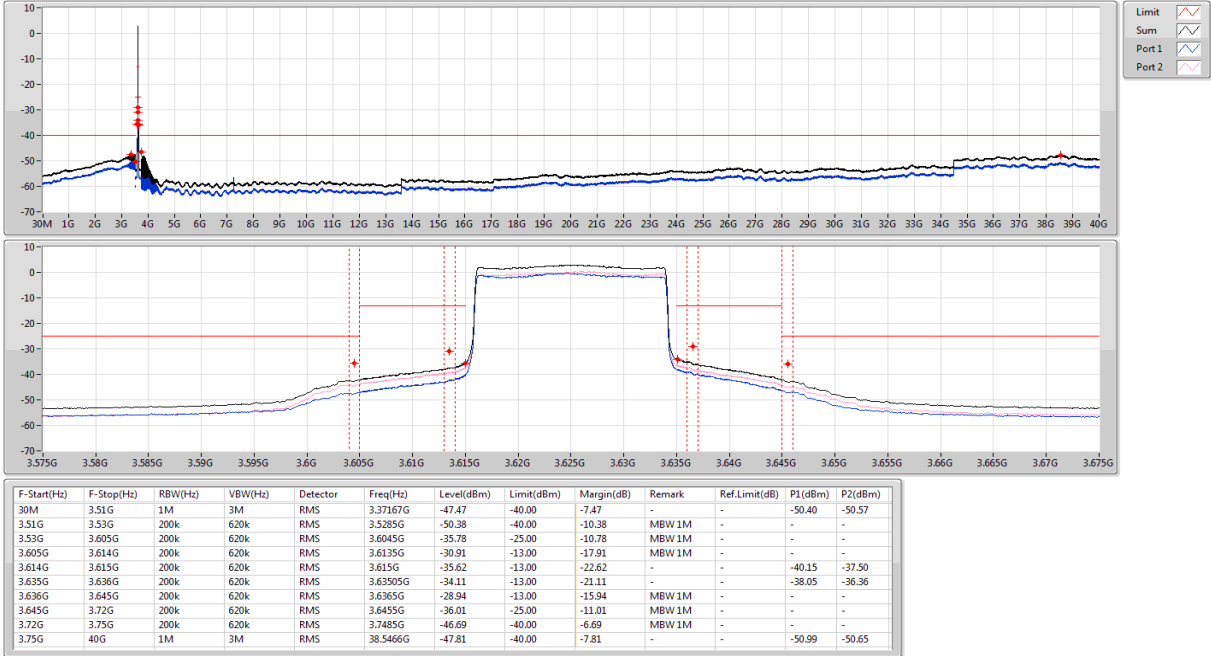
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



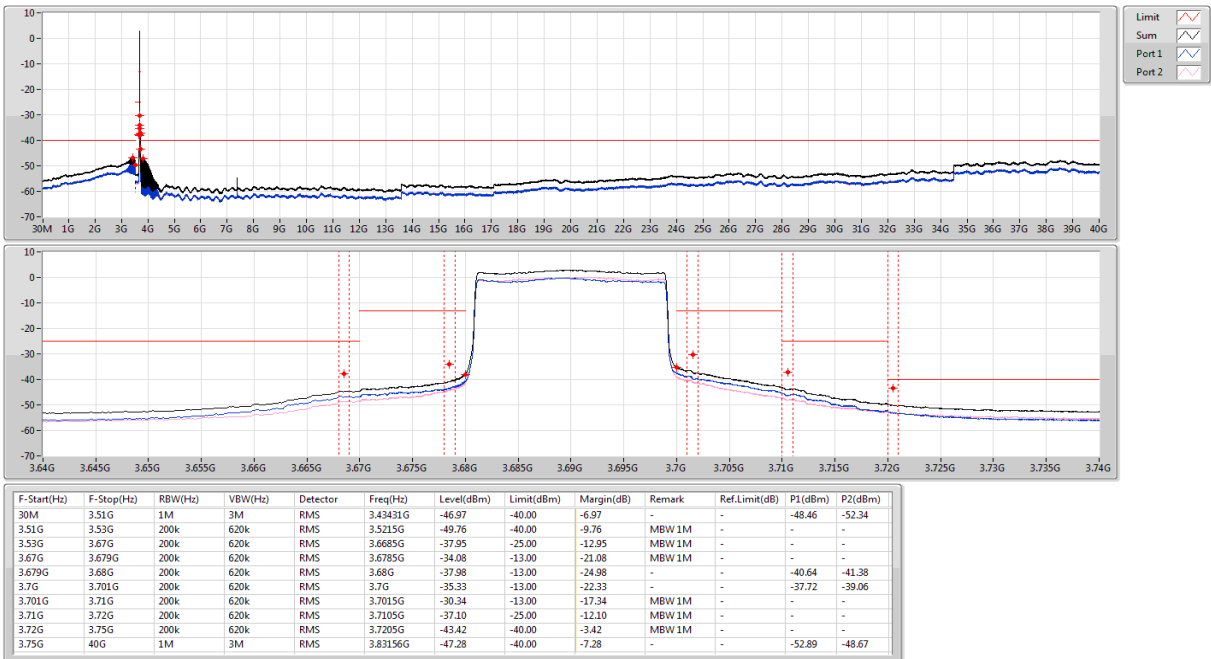
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



Band 48_LTE_20MHz_Nss1,64QAM_2TX
3690MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



3.3.5 Test Result of Conducted Emissions & Band Edge (CA Mode)

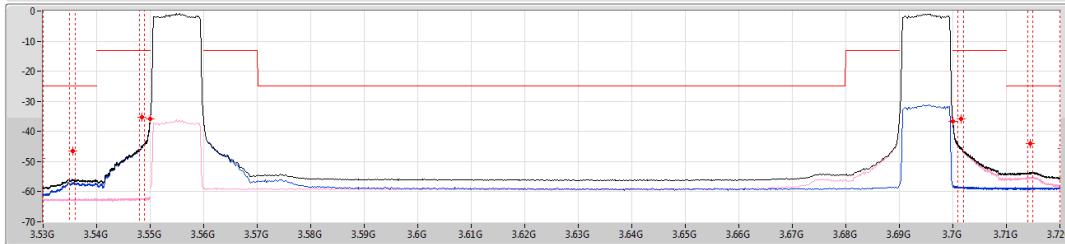
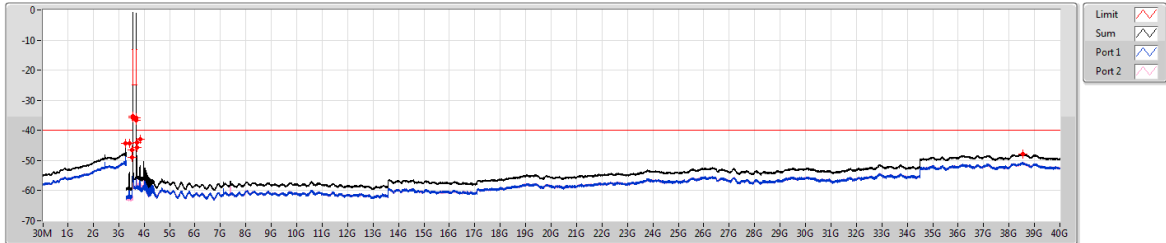
Multi-carrier Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
Band 48_LTE_10MHz+10MHz_Nss1_2TX	--	-	-	-	-	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3.75G	4G	100k	300k	RMS	3.8345G	-42.80	-40.00	-2.80	MBW 1M	-

Band 48 LTE 10MHz+10MHz_Nss1,QPSK_2TX

P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0

CSE-TX-Sum

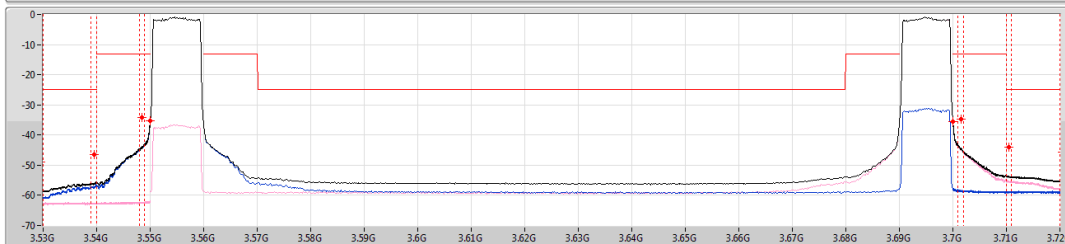
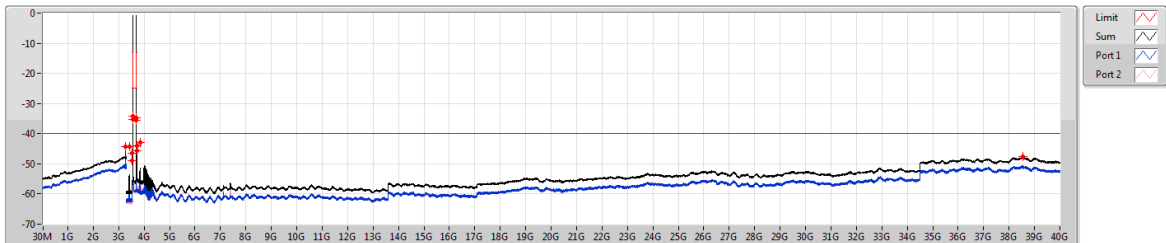


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.27548G	-44.29	-40.00	-4.29	-	-	-45.39	-50.80
3.3G	3.31G	100k	300k	RMS	3.4145G	-44.38	-40.00	-4.38	MBW 1M	-	-	-
3.31G	3.33G	100k	300k	RMS	3.5295G	-49.06	-40.00	-9.06	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5255G	-46.51	-25.00	-21.51	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-35.32	-13.00	-22.32	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.54999G	-35.73	-13.00	-22.73	-	-	-35.74	-61.89
3.7G	3.701G	100k	300k	RMS	3.7G	-36.57	-13.00	-23.57	-	-	-58.12	-36.60
3.701G	3.71G	100k	300k	RMS	3.7015G	-35.80	-13.00	-22.80	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7145G	-44.09	-25.00	-19.09	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-45.67	-40.00	-5.67	MBW 1M	-	-	-
3.75G	4G	100k	300k	RMS	3.8355G	-42.87	-40.00	-2.87	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.53075G	-47.77	-40.00	-7.77	-	-	-50.69	-50.88

Band 48 LTE 10MHz+10MHz_Nss1,16QAM_2TX

P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0

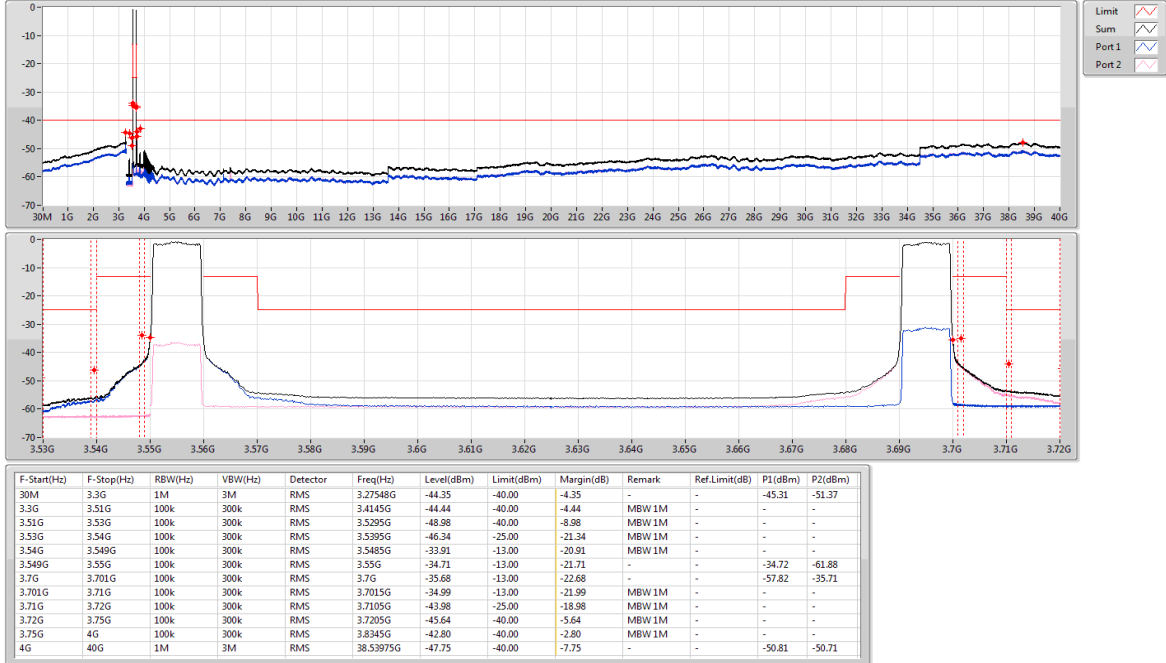
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.27597G	-44.34	-40.00	-4.34	-	-	-45.31	-51.34
3.3G	3.31G	100k	300k	RMS	3.4145G	-44.37	-40.00	-4.37	MBW 1M	-	-	-
3.31G	3.33G	100k	300k	RMS	3.5295G	-49.02	-40.00	-9.02	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-46.35	-25.00	-21.35	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-34.24	-13.00	-21.24	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-35.39	-13.00	-22.39	-	-	-35.40	-62.04
3.7G	3.701G	100k	300k	RMS	3.7G	-35.46	-13.00	-22.46	-	-	-57.87	-35.49
3.701G	3.71G	100k	300k	RMS	3.7015G	-34.82	-13.00	-21.82	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-44.12	-25.00	-19.12	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-45.63	-40.00	-5.63	MBW 1M	-	-	-
3.75G	4G	100k	300k	RMS	3.8345G	-42.82	-40.00	-2.82	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.53525G	-47.71	-40.00	-7.71	-	-	-50.72	-50.72

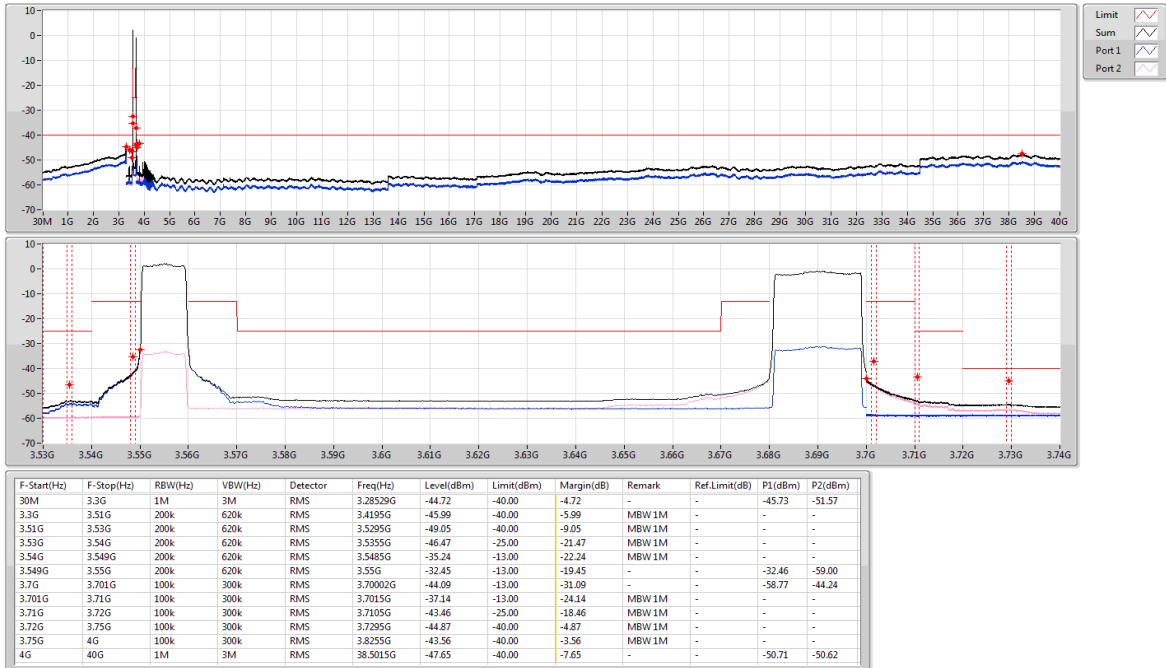
Band 48 LTE 10MHz+10MHz_Nss1,64QAM_2TX
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0

CSE-TX-Sum



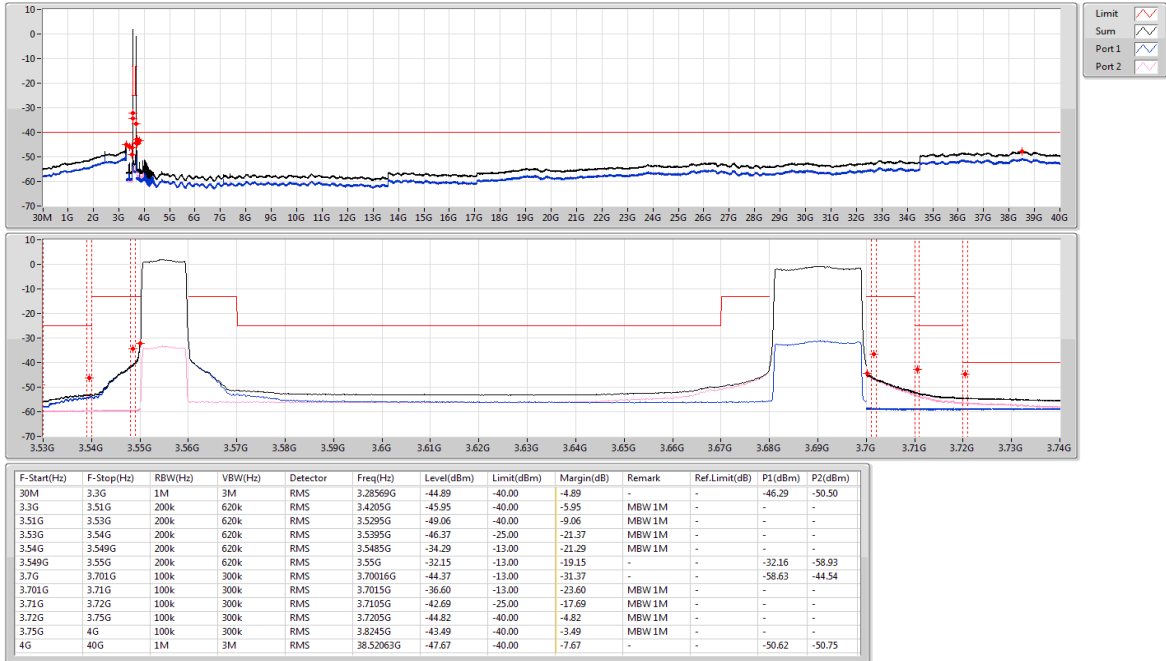
Band 48 LTE 10MHz+20MHz_Nss1,QPSK_2TX
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0

CSE-TX-Sum



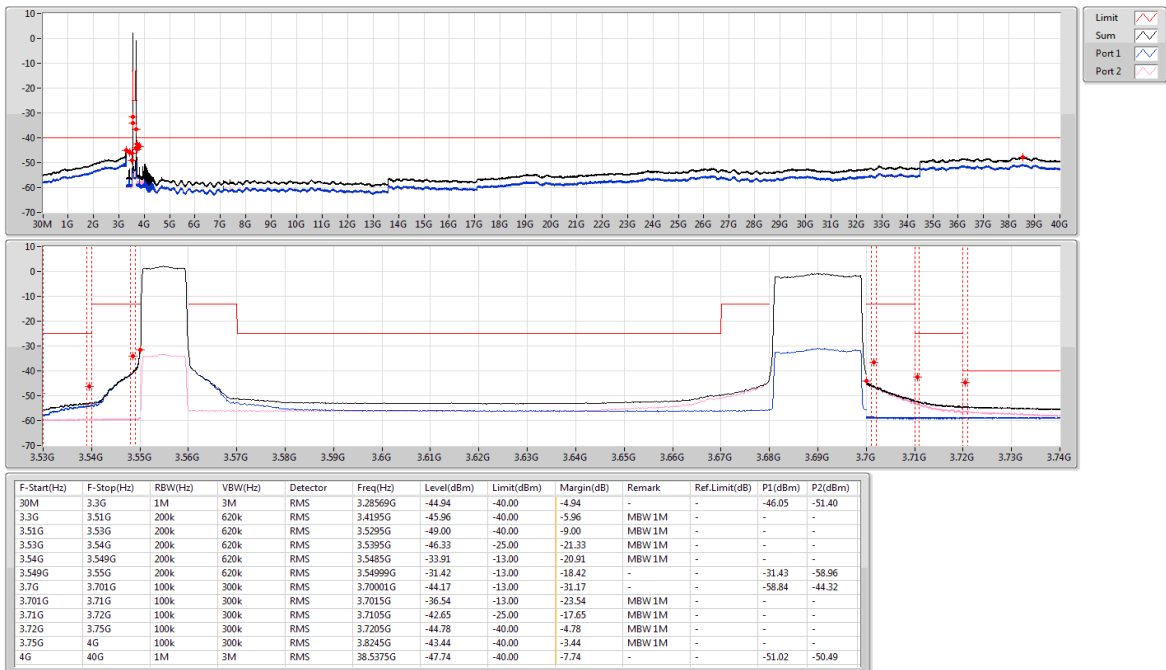
Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0

CSE-TX-Sum



Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0

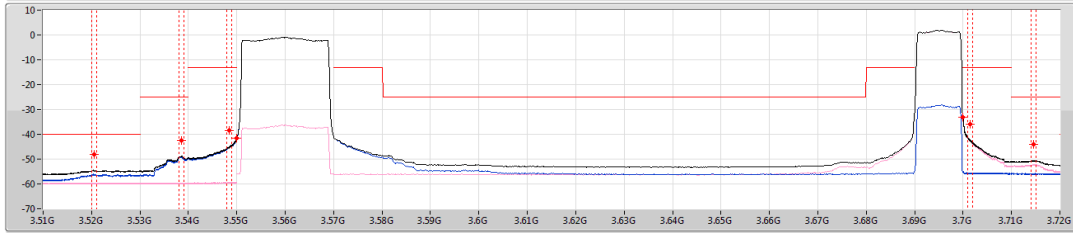
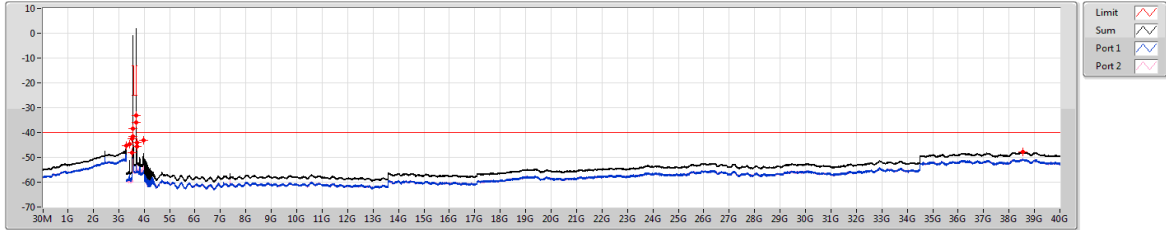
CSE-TX-Sum



Band 48 LTE 20MHz+10MHz_Nss1,QPSK_2TX

P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0

CSE-TX-Sum

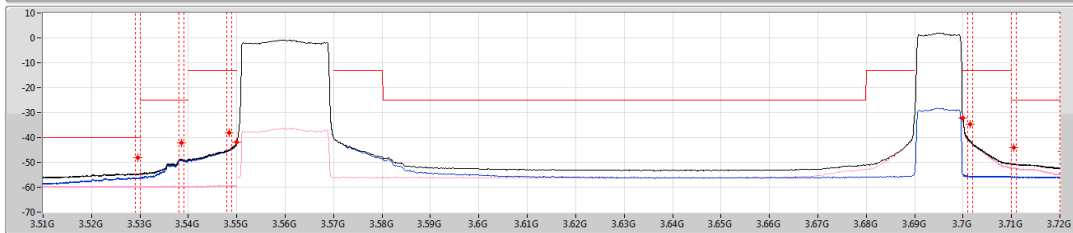
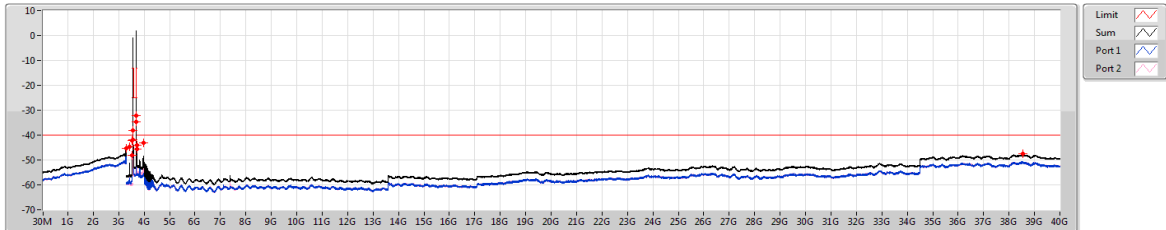


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.28937G	-45.42	-40.00	-5.42	-	-	-46.92	-50.75
3.3G	3.51G	200k	620k	RMS	3.4245G	-44.83	-40.00	-4.83	MBW 1M	-	-	-
3.51G	3.53G	200k	620k	RMS	3.5205G	-48.03	-40.00	-8.03	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5385G	-42.36	-25.00	-17.36	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-38.39	-13.00	-25.39	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-41.71	-13.00	-28.71	-	-	-41.78	-59.42
3.7G	3.701G	200k	620k	RMS	3.7G	-33.24	-13.00	-20.24	-	-	-55.19	-33.27
3.701G	3.71G	200k	620k	RMS	3.7015G	-35.81	-13.00	-22.81	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7145G	-44.08	-25.00	-19.08	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7215G	-45.71	-40.00	-5.71	MBW 1M	-	-	-
3.75G	4G	200k	620k	RMS	3.9655G	-43.18	-40.00	-3.18	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.5465G	-47.73	-40.00	-7.73	-	-	-50.72	-50.76

Band 48 LTE 20MHz+10MHz_Nss1,16QAM_2TX

P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0

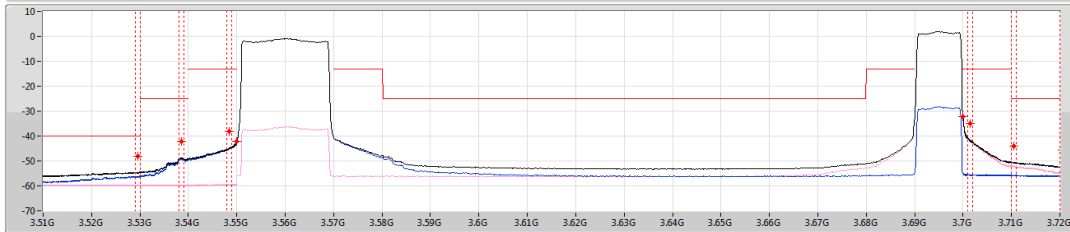
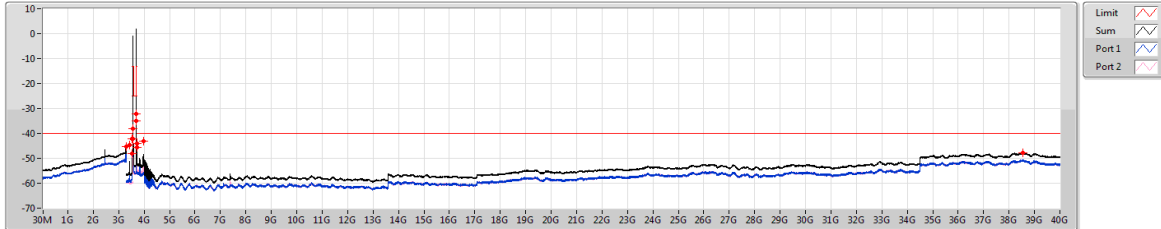
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.2906G	-45.24	-40.00	-5.24	-	-	-46.60	-50.94
3.3G	3.51G	200k	620k	RMS	3.4245G	-44.80	-40.00	-4.80	MBW 1M	-	-	-
3.51G	3.53G	200k	620k	RMS	3.5295G	-48.04	-40.00	-8.04	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5385G	-42.23	-25.00	-17.23	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-38.15	-13.00	-25.15	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-42.01	-13.00	-29.01	-	-	-42.09	-59.56
3.7G	3.701G	200k	620k	RMS	3.7G	-32.17	-13.00	-19.17	-	-	-54.91	-32.19
3.701G	3.71G	200k	620k	RMS	3.7015G	-34.83	-13.00	-21.83	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-44.06	-25.00	-19.06	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-45.65	-40.00	-5.65	MBW 1M	-	-	-
3.75G	4G	200k	620k	RMS	3.9655G	-43.12	-40.00	-3.12	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.53188G	-47.62	-40.00	-7.62	-	-	-50.69	-50.57

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0

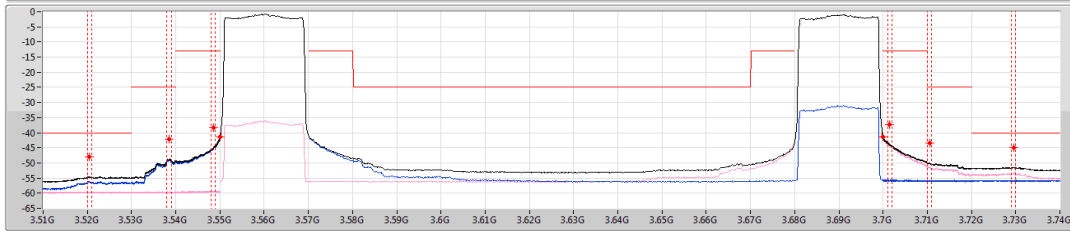
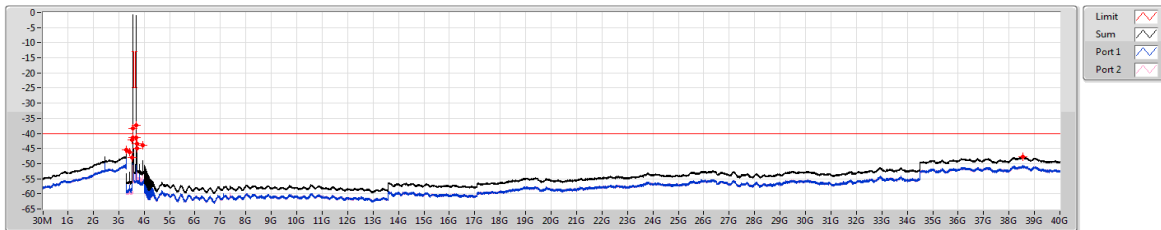
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.2906G	-45.35	-40.00	-5.35	-	-	-46.63	-51.29
3.3G	3.51G	200k	620k	RMS	3.4255G	-44.78	-40.00	-4.78	MBW 1M	-	-	-
3.51G	3.53G	200k	620k	RMS	3.5295G	-48.02	-40.00	-8.02	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5385G	-42.30	-25.00	-17.30	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-38.17	-13.00	-25.17	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-42.28	-13.00	-29.28	-	-	-42.36	-59.54
3.7G	3.701G	200k	620k	RMS	3.7G	-32.34	-13.00	-19.34	-	-	-54.96	-32.36
3.701G	3.71G	200k	620k	RMS	3.7015G	-35.08	-13.00	-22.08	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-43.94	-25.00	-18.94	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-45.68	-40.00	-5.68	MBW 1M	-	-	-
3.75G	4G	200k	620k	RMS	3.9655G	-43.12	-40.00	-3.12	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.5465G	-47.75	-40.00	-7.75	-	-	-50.73	-50.79

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

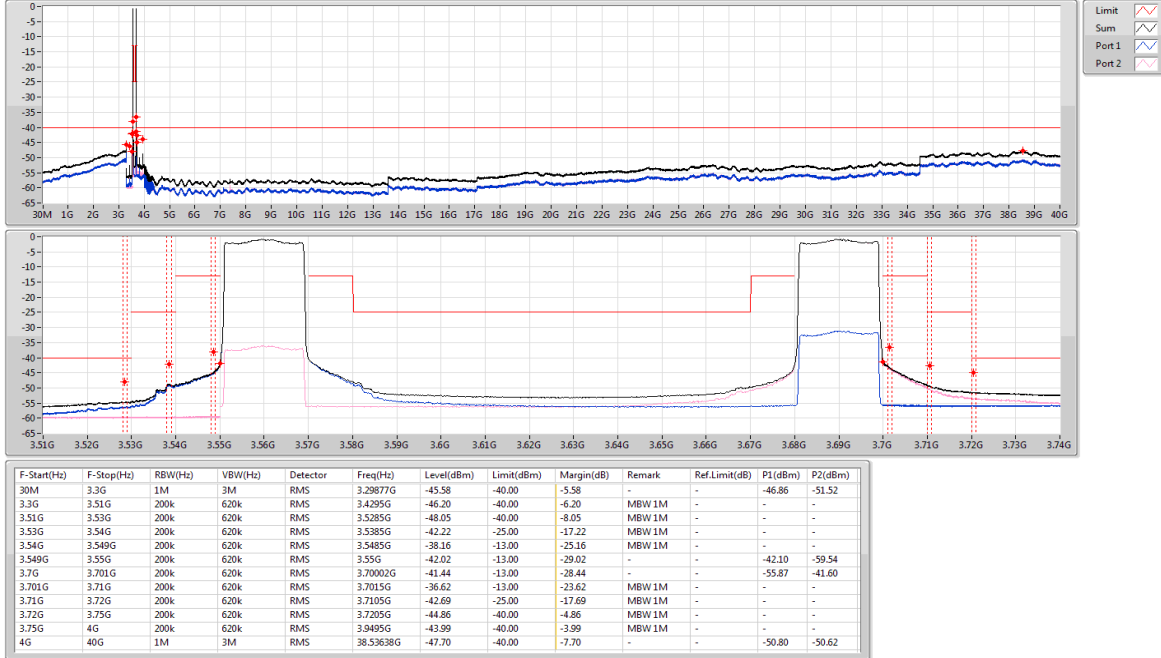
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.3G	1M	3M	RMS	3.29918G	-45.45	-40.00	-5.45	-	-	-46.71	-51.44
3.3G	3.51G	200k	620k	RMS	3.4305G	-46.30	-40.00	-6.30	MBW 1M	-	-	-
3.51G	3.53G	200k	620k	RMS	3.5205G	-48.02	-40.00	-8.02	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5385G	-42.24	-25.00	-17.24	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-38.31	-13.00	-25.31	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-41.46	-13.00	-28.46	-	-	-41.53	-59.56
3.7G	3.701G	200k	620k	RMS	3.70003G	-41.26	-13.00	-28.26	-	-	-55.86	-41.41
3.701G	3.71G	200k	620k	RMS	3.7015G	-37.21	-13.00	-24.21	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-43.51	-25.00	-18.51	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7295G	-44.90	-40.00	-4.90	MBW 1M	-	-	-
3.75G	4G	200k	620k	RMS	3.9495G	-44.02	-40.00	-4.02	MBW 1M	-	-	-
4G	40G	1M	3M	RMS	38.53975G	-47.73	-40.00	-7.73	-	-	-50.57	-50.91

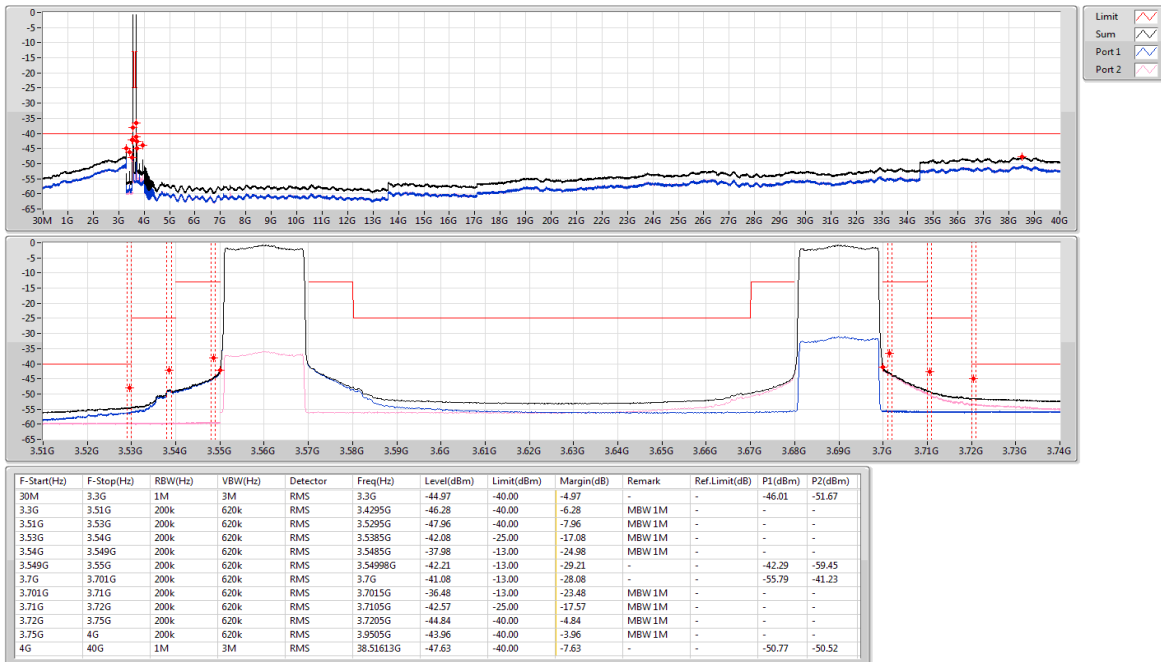
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum

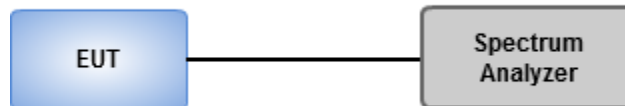


3.4 Emission Bandwidth

3.4.1 Test Procedures

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 26dB relative to the maximum level measured in the fundamental emission.
5. Measure the occupied bandwidth.

3.4.2 Test Setup



3.4.3 Test Result of Occupied Bandwidth (CDD Mode)

Single-carrier / Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 48					
LTE_10MHz_Nss1,QPSK_2TX	9.8M	8.938M	8M94G7D	9.613M	8.932M
LTE_10MHz_Nss1,16QAM_2TX	9.863M	8.95M	8M95W7D	9.738M	8.929M
LTE_10MHz_Nss1,64QAM_2TX	9.925M	8.939M	8M94W7D	9.713M	8.933M
LTE_20MHz_Nss1,QPSK_2TX	19.275M	17.88M	17M9G7D	18.85M	17.855M
LTE_20MHz_Nss1,16QAM_2TX	19M	17.836M	17M8W7D	18.825M	17.813M
LTE_20MHz_Nss1,64QAM_2TX	18.975M	17.826M	17M8W7D	18.825M	17.811M

Max-N dB = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

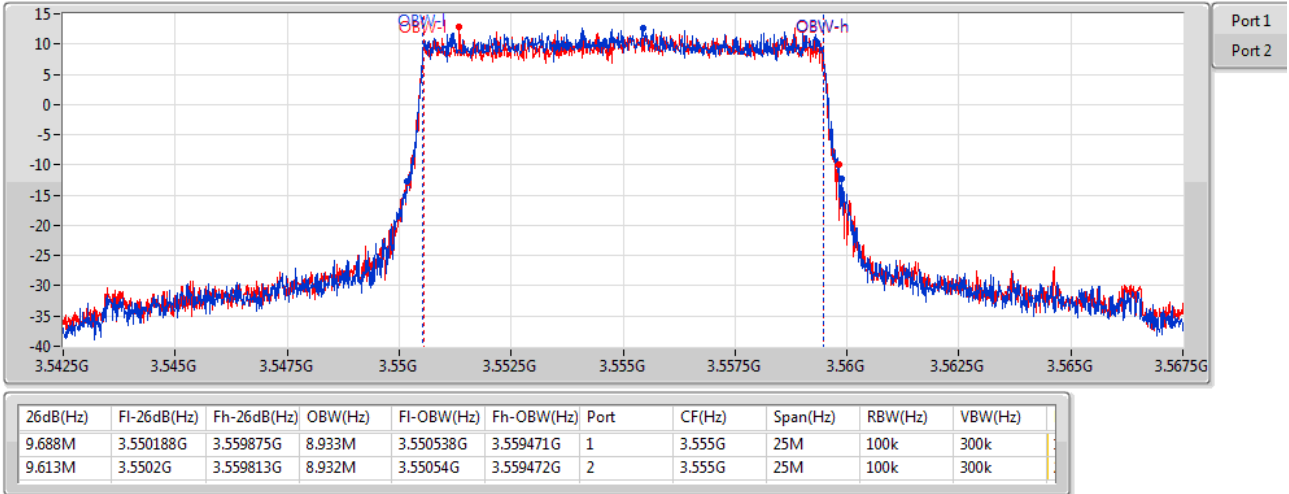
Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.688M	8.933M	9.613M	8.932M
3625MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.8M	8.938M	9.663M	8.933M
3695MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.75M	8.936M	9.688M	8.937M
3555MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.738M	8.95M	9.8M	8.938M
3625MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.863M	8.942M	9.838M	8.929M
3695MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.788M	8.938M	9.838M	8.941M
3555MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.863M	8.934M	9.9M	8.934M
3625MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.713M	8.933M	9.863M	8.939M
3695MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.85M	8.935M	9.925M	8.935M
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	Inf	19.275M	17.855M	18.85M	17.866M
3625MHz_QPSK_RB 100,#RB 0	Pass	Inf	19.1M	17.858M	18.85M	17.88M
3690MHz_QPSK_RB 100,#RB 0	Pass	Inf	19.15M	17.855M	19.075M	17.86M
3560MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.85M	17.827M	18.925M	17.835M
3625MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.85M	17.836M	18.85M	17.824M
3690MHz_16QAM_RB 100,#RB 0	Pass	Inf	19M	17.819M	18.825M	17.813M
3560MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.9M	17.814M	18.85M	17.822M
3625MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.825M	17.818M	18.975M	17.817M
3690MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.9M	17.826M	18.95M	17.811M

Port X-N dB = Port X 26dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

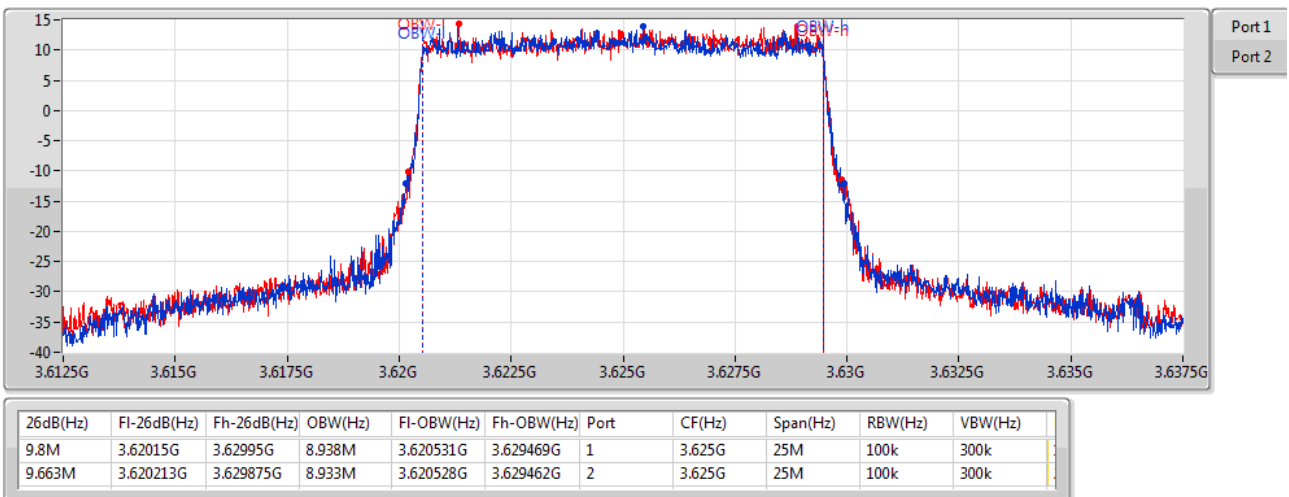
Band 48_LTE_10MHz_Nss1,QPSK_2TX

3555MHz_QPSK_RB 50,#RB 0



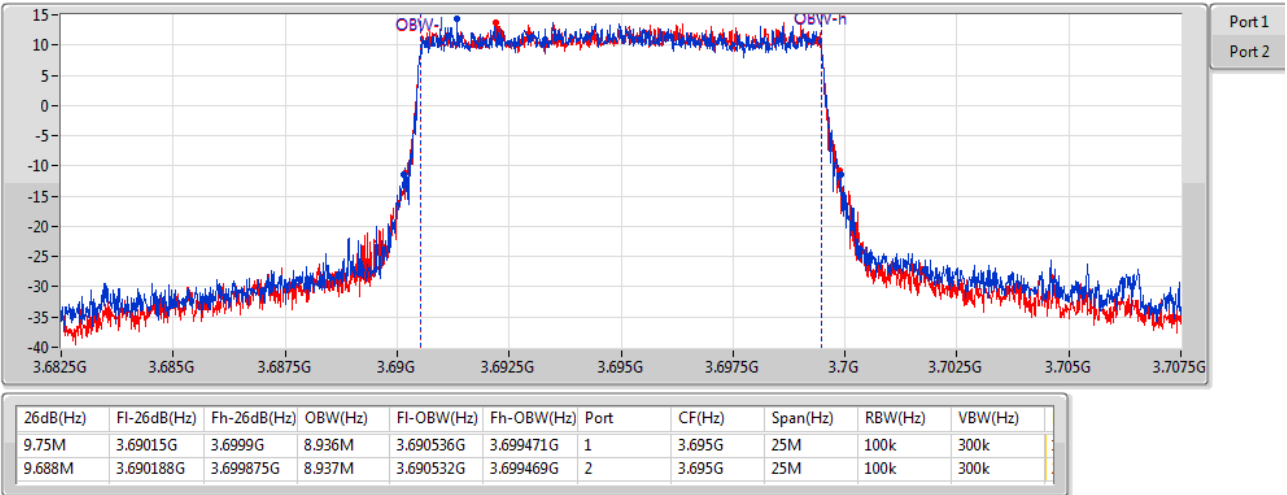
Band 48_LTE_10MHz_Nss1,QPSK_2TX

3625MHz_QPSK_RB 50,#RB 0



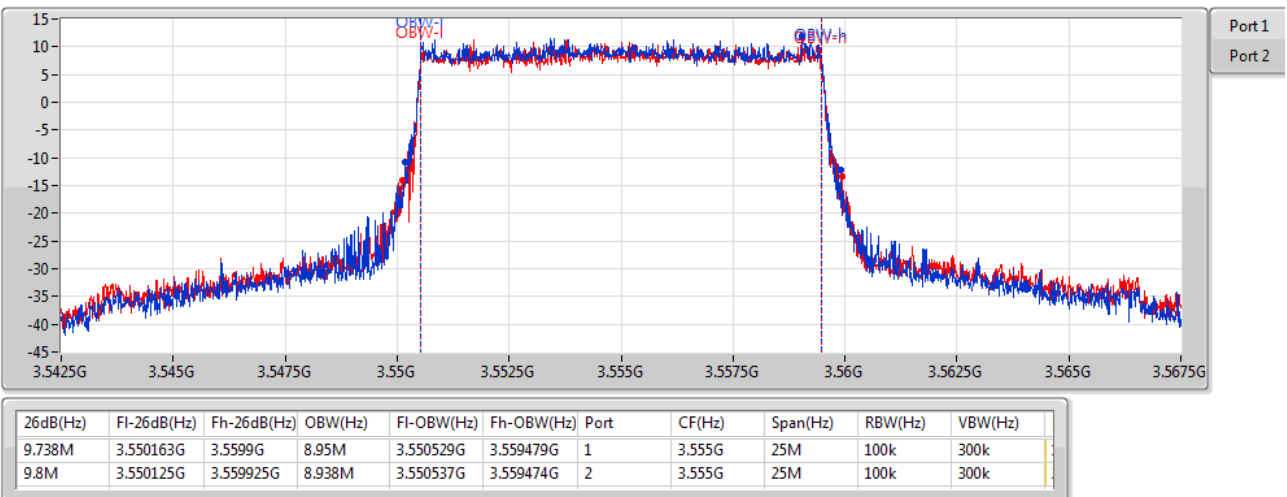
Band 48_LTE_10MHz_Nss1,QPSK_2TX

3695MHz_QPSK_RB 50,#RB 0



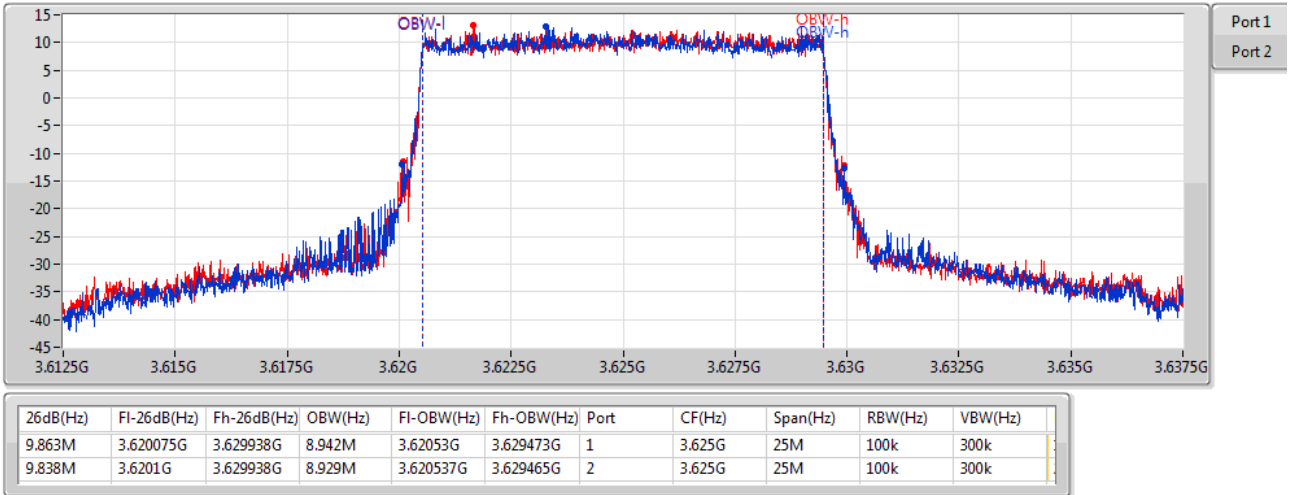
Band 48_LTE_10MHz_Nss1,16QAM_2TX

3555MHz_16QAM_RB 50,#RB 0



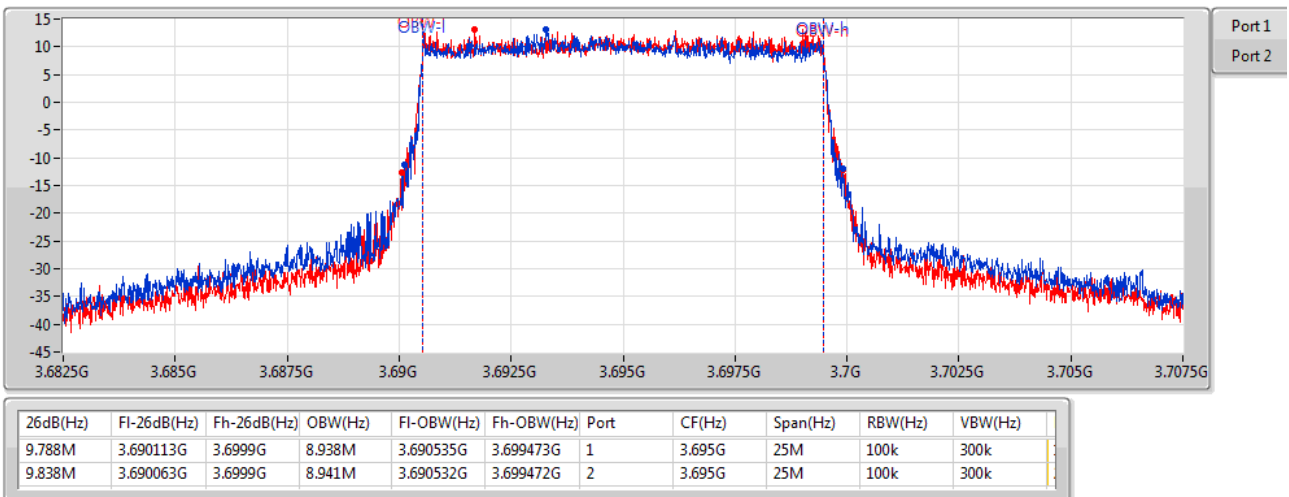
Band 48_LTE_10MHz_Nss1,16QAM_2TX

3625MHz_16QAM_RB 50,#RB 0



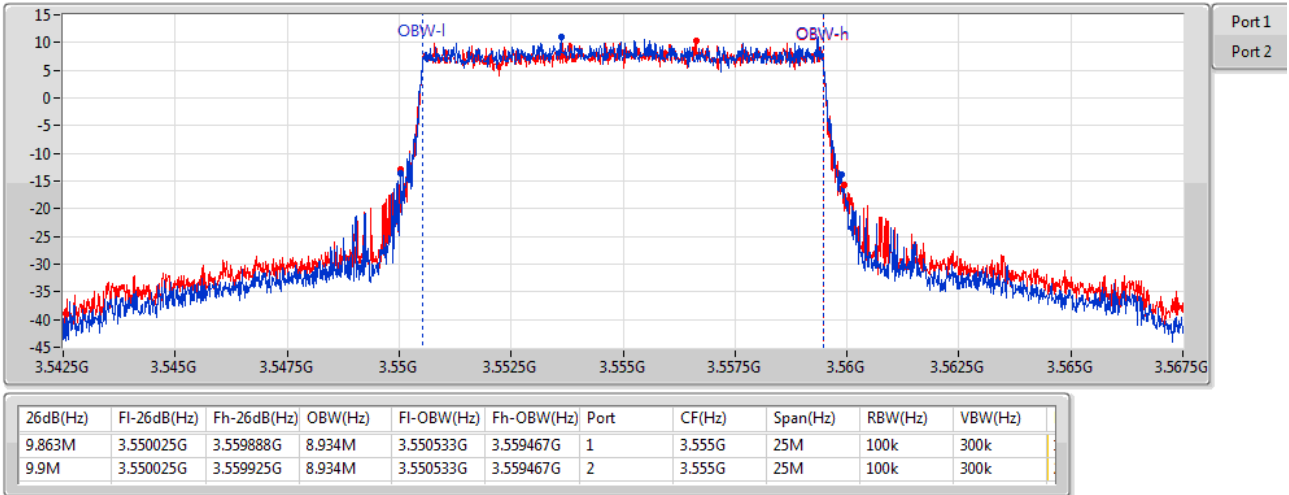
Band 48_LTE_10MHz_Nss1,16QAM_2TX

3695MHz_16QAM_RB 50,#RB 0



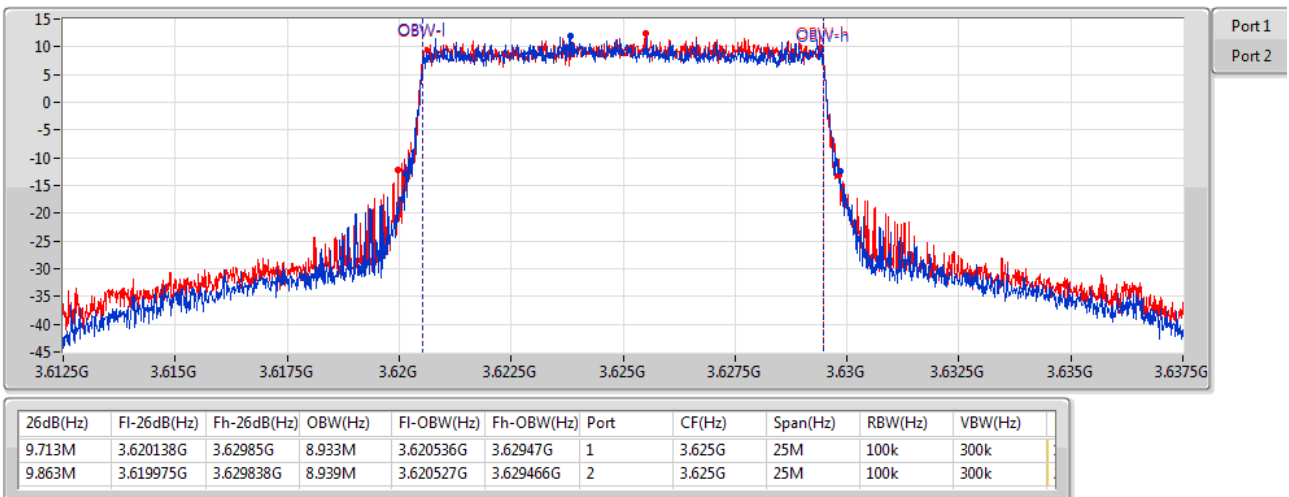
Band 48_LTE_10MHz_Nss1,64QAM_2TX

3555MHz_64QAM_RB 50,#RB 0



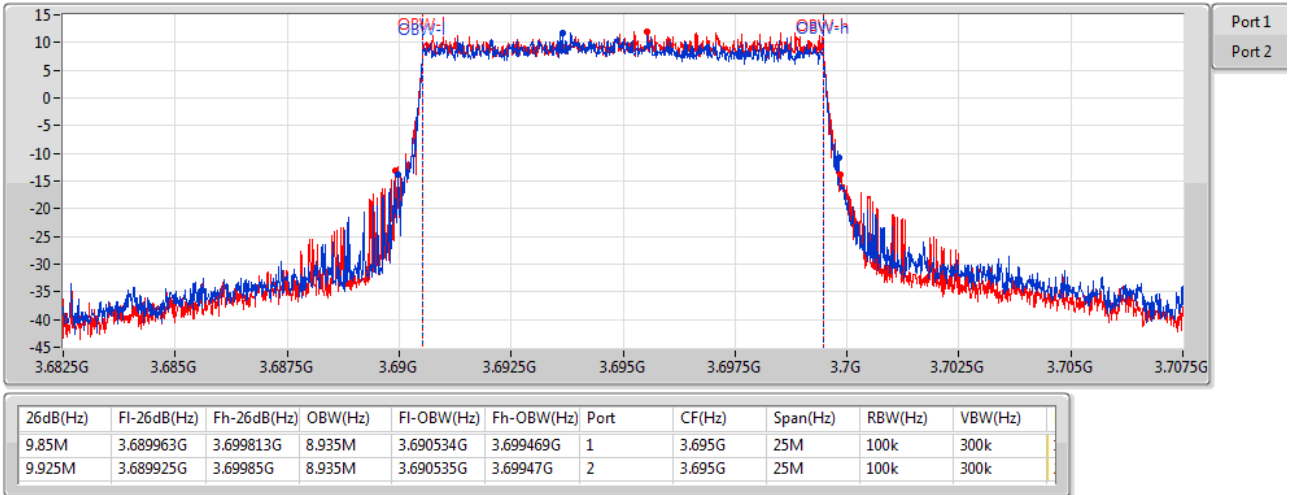
Band 48_LTE_10MHz_Nss1,64QAM_2TX

3625MHz_64QAM_RB 50,#RB 0



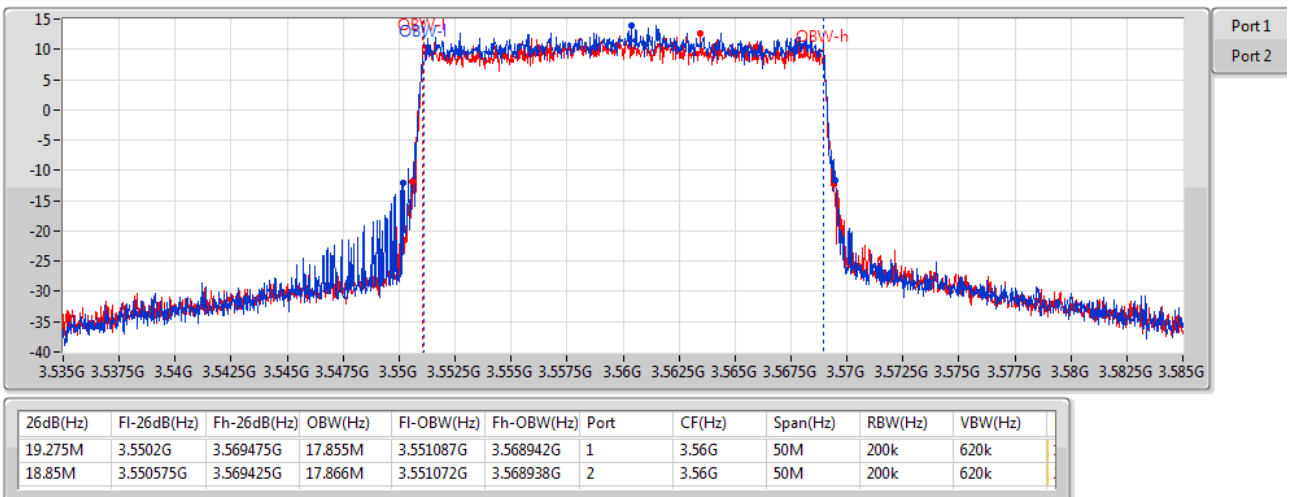
Band 48_LTE_10MHz_Nss1,64QAM_2TX

3695MHz_64QAM_RB 50,#RB 0

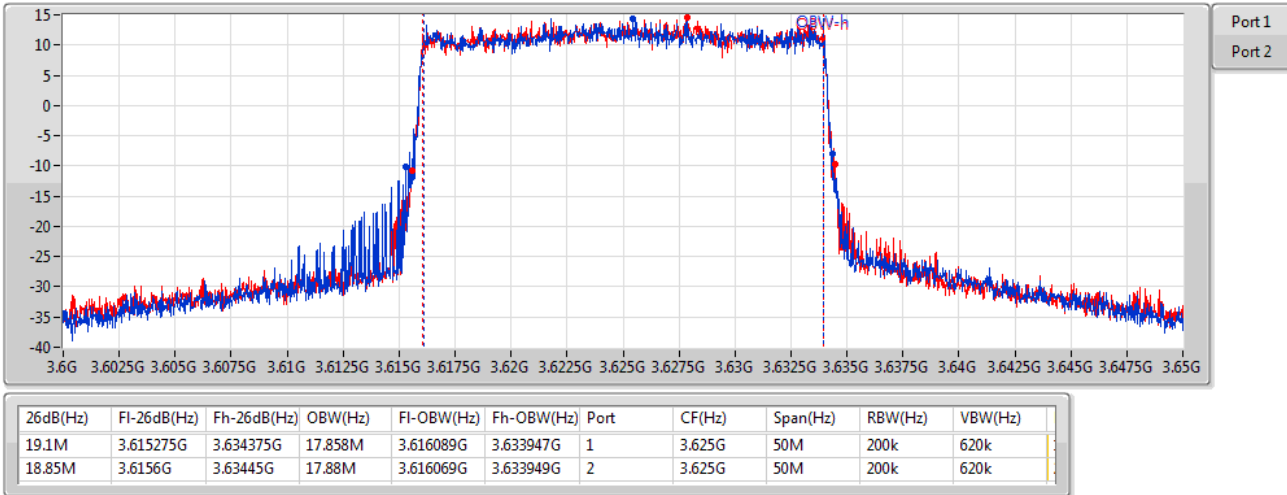


Band 48_LTE_20MHz_Nss1,QPSK_2TX

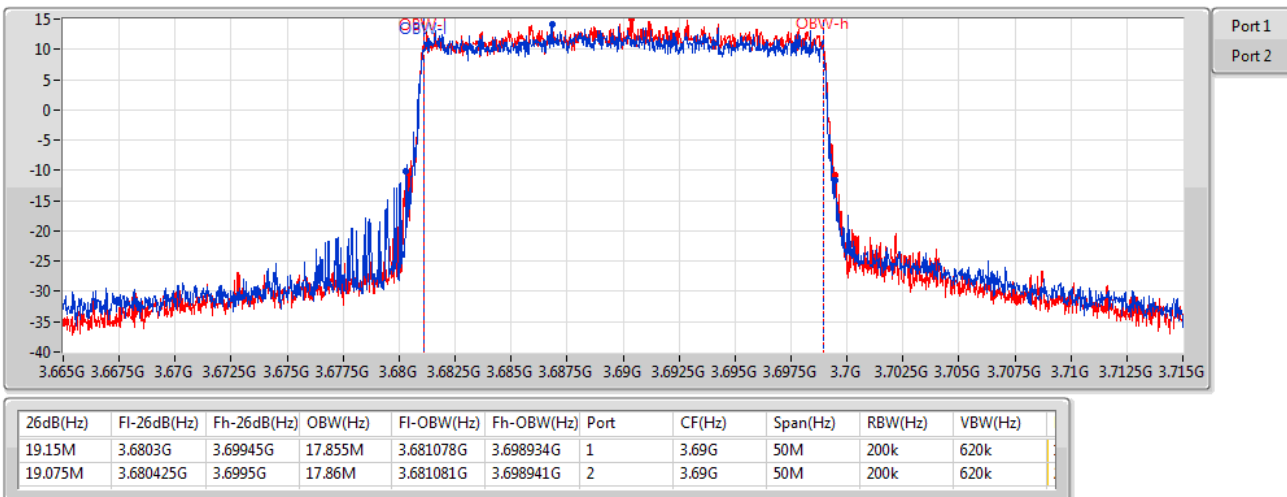
3560MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 100,#RB 0

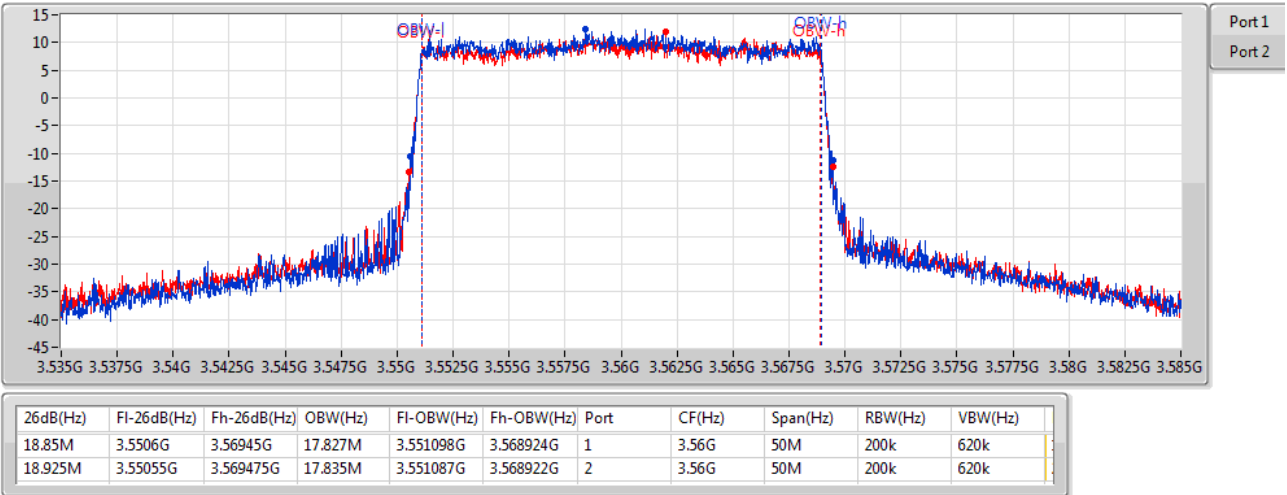


Band 48_LTE_20MHz_Nss1,QPSK_2TX
3690MHz_QPSK_RB 100,#RB 0



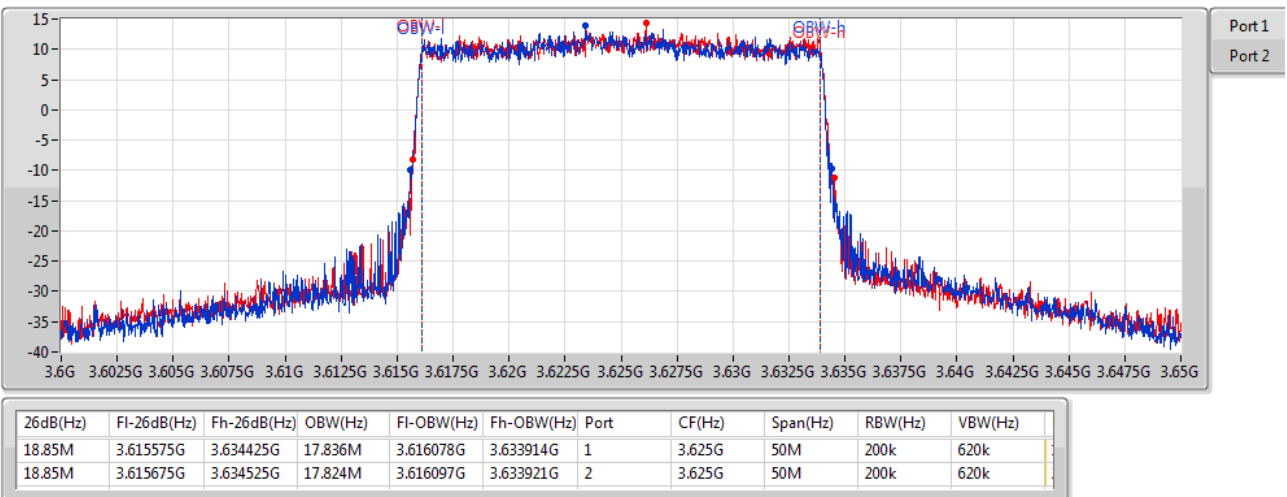
Band 48_LTE_20MHz_Nss1,16QAM_2TX

3560MHz_16QAM_RB 100,#RB 0



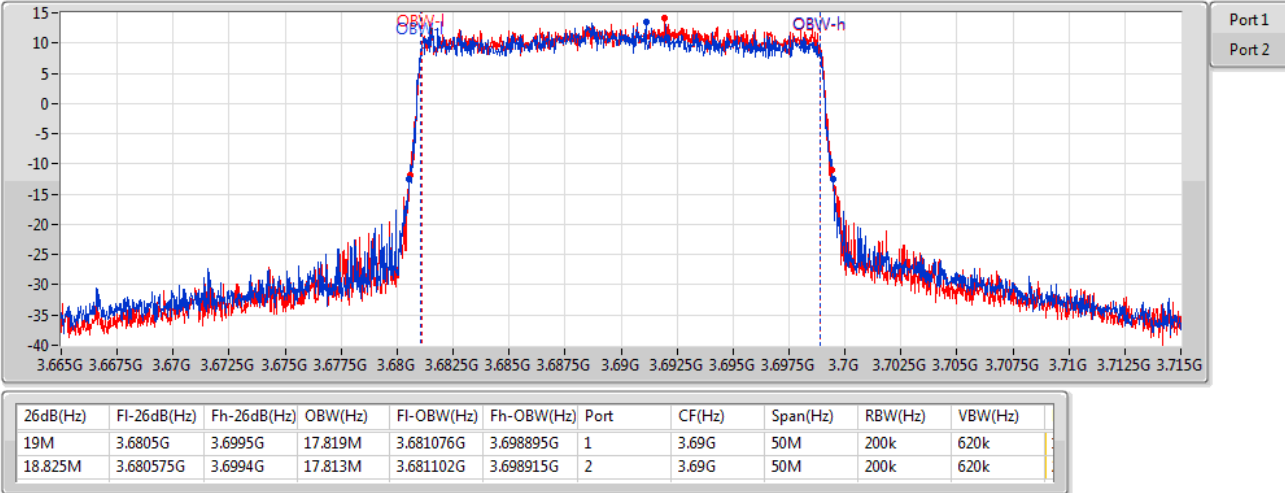
Band 48_LTE_20MHz_Nss1,16QAM_2TX

3625MHz_16QAM_RB 100,#RB 0



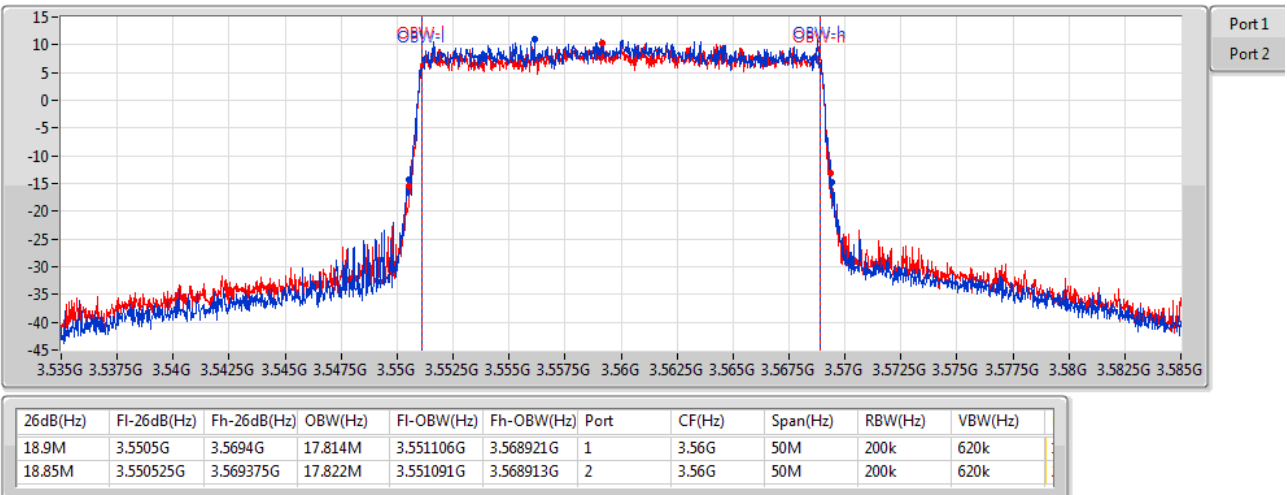
Band 48_LTE_20MHz_Nss1,16QAM_2TX

3690MHz_16QAM_RB 100,#RB 0



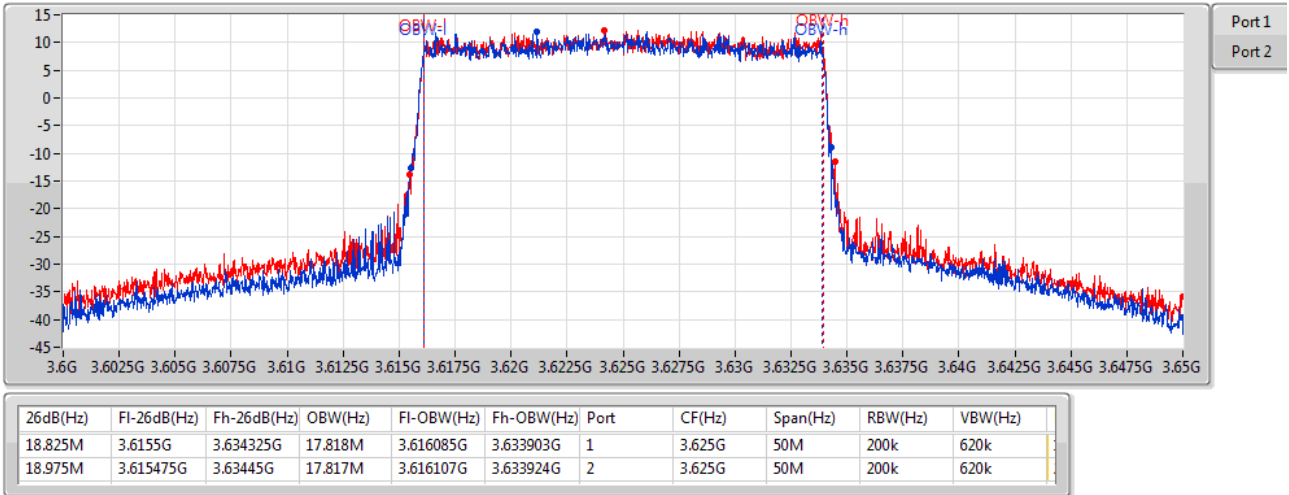
Band 48_LTE_20MHz_Nss1,64QAM_2TX

3560MHz_64QAM_RB 100,#RB 0



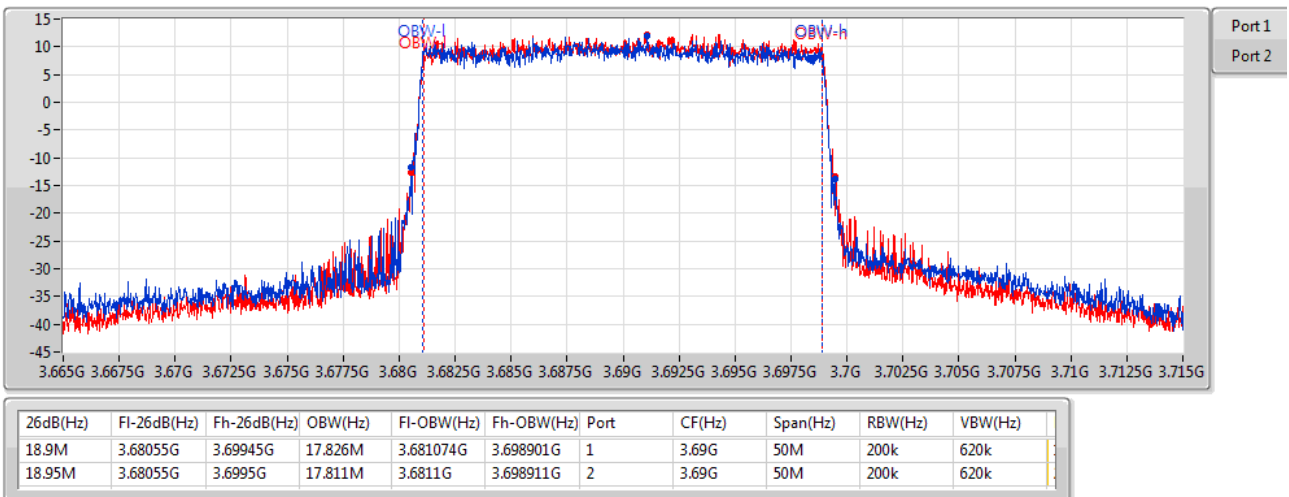
Band 48_LTE_20MHz_Nss1,64QAM_2TX

3625MHz_64QAM_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,64QAM_2TX

3690MHz_64QAM_RB 100,#RB 0



3.4.4 Test Result of Occupied Bandwidth (CA Mode)

Multi-carrier Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code
Band 48	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	19.426 M	17.873 M	17M9G7D
LTE_10MHz+10MHz_Nss1,16QAM_2TX	19.55 M	17.887 M	17M9W7D
LTE_10MHz+10MHz_Nss1,64QAM_2TX	19.6 M	17.844 M	17M8W7D
LTE_10MHz+20MHz_Nss1,QPSK_2TX	28.75 M	26.812 M	26M8G7D
LTE_10MHz+20MHz_Nss1,16QAM_2TX	29 M	26.801 M	26M8W7D
LTE_10MHz+20MHz_Nss1,64QAM_2TX	28.813 M	26.748 M	26M7W7D
LTE_20MHz+10MHz_Nss1,QPSK_2TX	28.988 M	26.821 M	26M8G7D
LTE_20MHz+10MHz_Nss1,16QAM_2TX	28.75 M	26.756 M	26M8W7D
LTE_20MHz+10MHz_Nss1,64QAM_2TX	28.588 M	26.728 M	26M7W7D
LTE_20MHz+20MHz_Nss1,QPSK_2TX	38.3 M	35.733 M	35M7G7D
LTE_20MHz+20MHz_Nss1,16QAM_2TX	38.175 M	35.673 M	35M7W7D
LTE_20MHz+20MHz_Nss1,64QAM_2TX	37.925 M	35.65 M	35M7W7D

Max-N dB = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

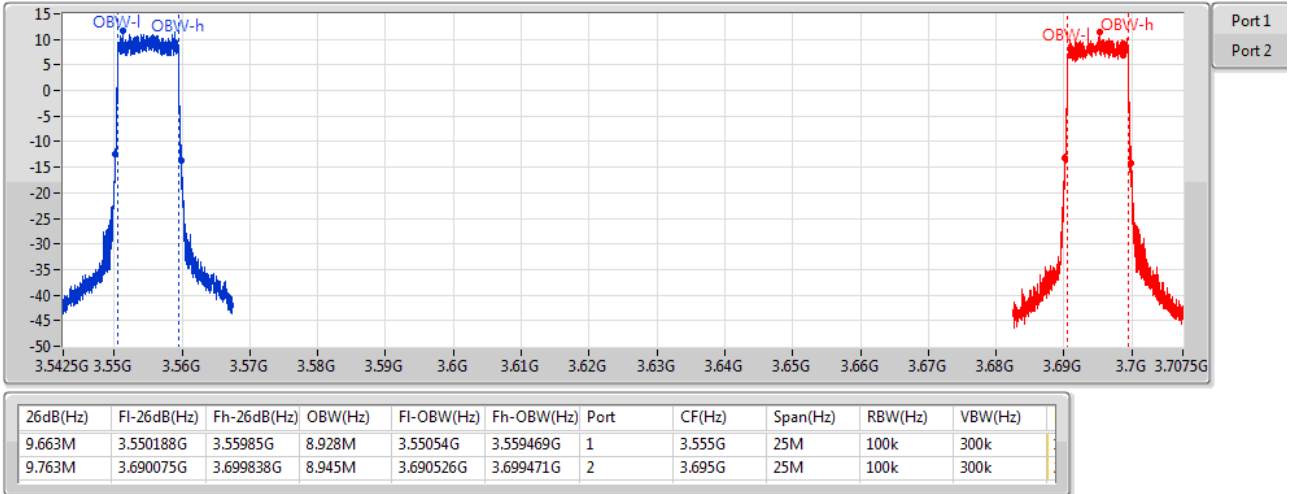
Mode	Result	Limit (Hz)	1Carrier Port 1-NdB (Hz)	1Carrier Port 1-OBW (Hz)	2Carrier Port 2-NdB (Hz)	2Carrier Port 2-OBW (Hz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.663M	8.928M	9.763M	8.945M
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.725M	8.932M	9.825M	8.955M
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.8M	8.928M	9.8M	8.916M
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.775M	8.932M	18.975M	17.88M
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.85M	8.941M	19.15M	17.86M
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.913M	8.93M	18.9M	17.818M
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	19.1M	17.885M	9.888M	8.936M
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.9M	17.807M	9.85M	8.949M
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.85M	17.809M	9.738M	8.919M
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	19.225M	17.866M	19.075M	17.867M
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.95M	17.825M	19.225M	17.848M
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	19M	17.811M	18.925M	17.839M

Port X-N dB = Port X 26dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

Mode	Result	Limit (Hz)	Port 1 + Port 2 -NdB (Hz)	Port 1 + Port 2 -OBW (Hz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	19.426 M	17.873 M
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	19.55 M	17.887 M
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	19.6 M	17.844 M
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	28.75 M	26.812 M
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	29 M	26.801 M
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	28.813 M	26.748 M
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	28.988 M	26.821 M
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	28.75 M	26.756 M
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	28.588 M	26.728 M
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	38.3 M	35.733 M
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	38.175 M	35.673 M
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	37.925 M	35.65 M

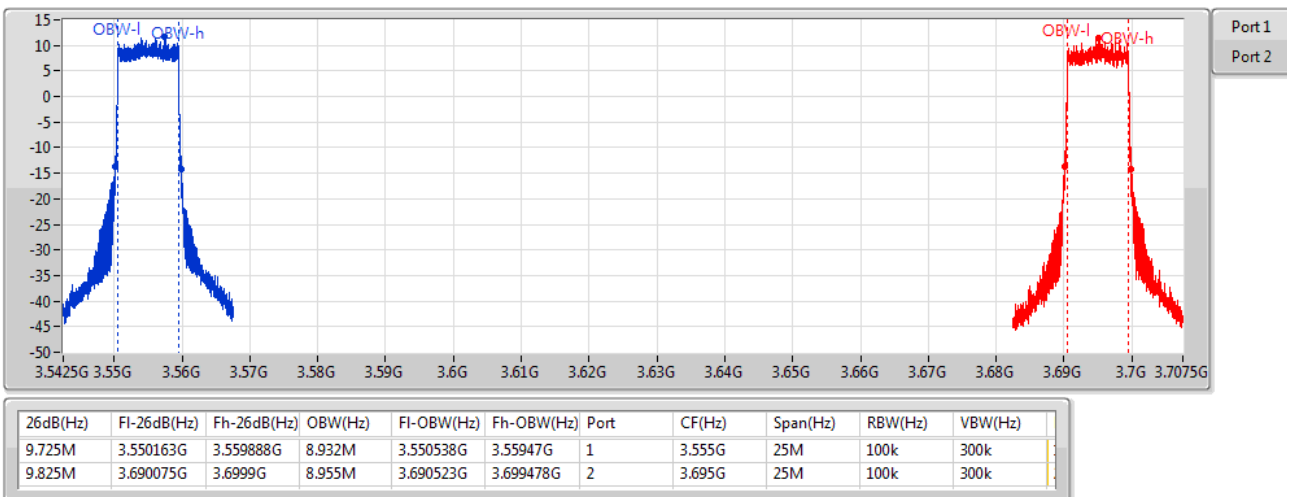
Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX

P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



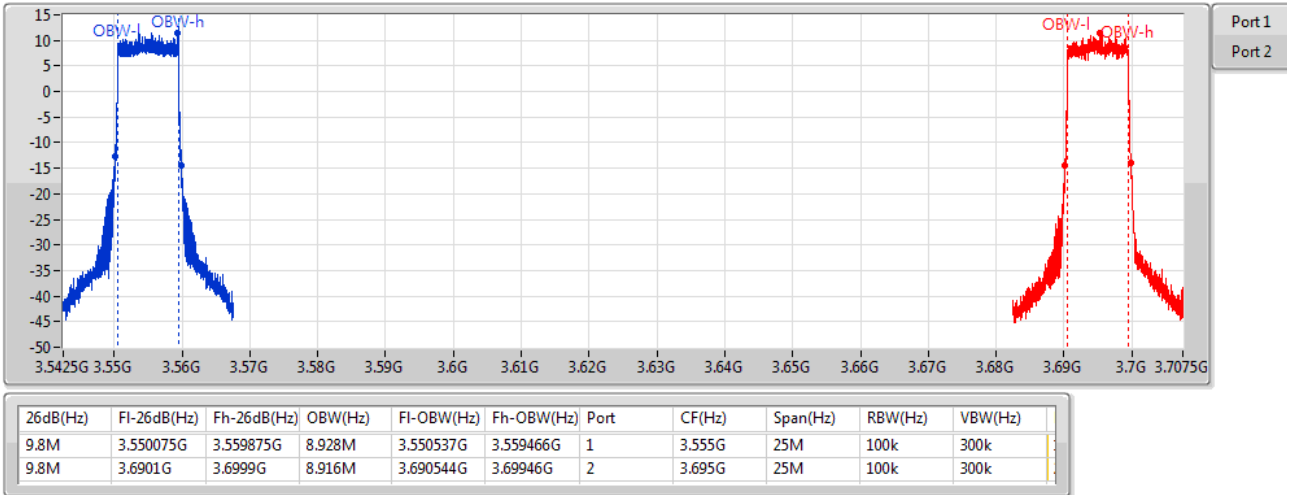
Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX

P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



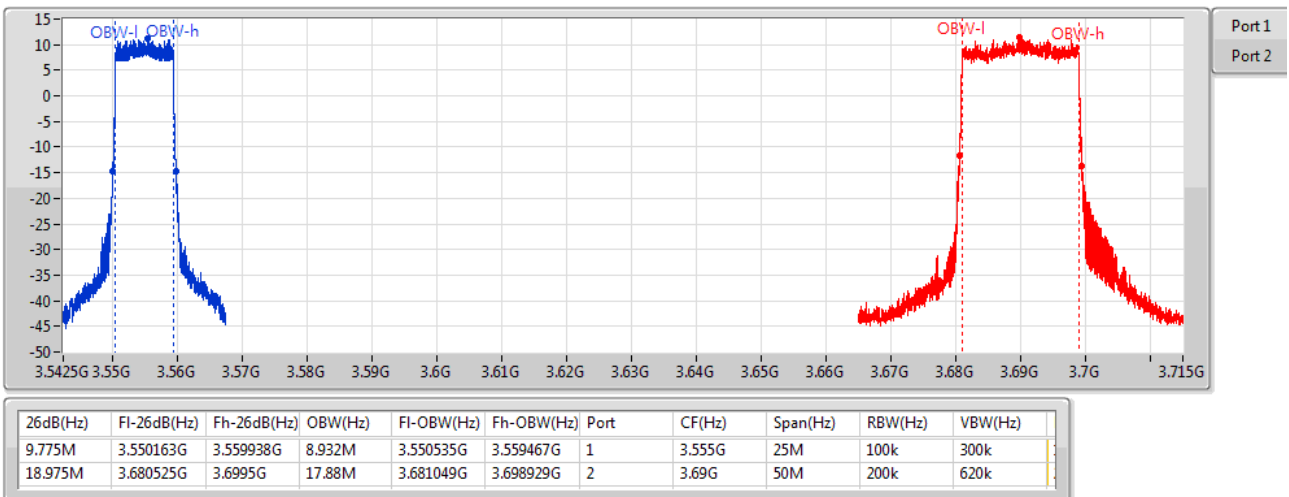
Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX

P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



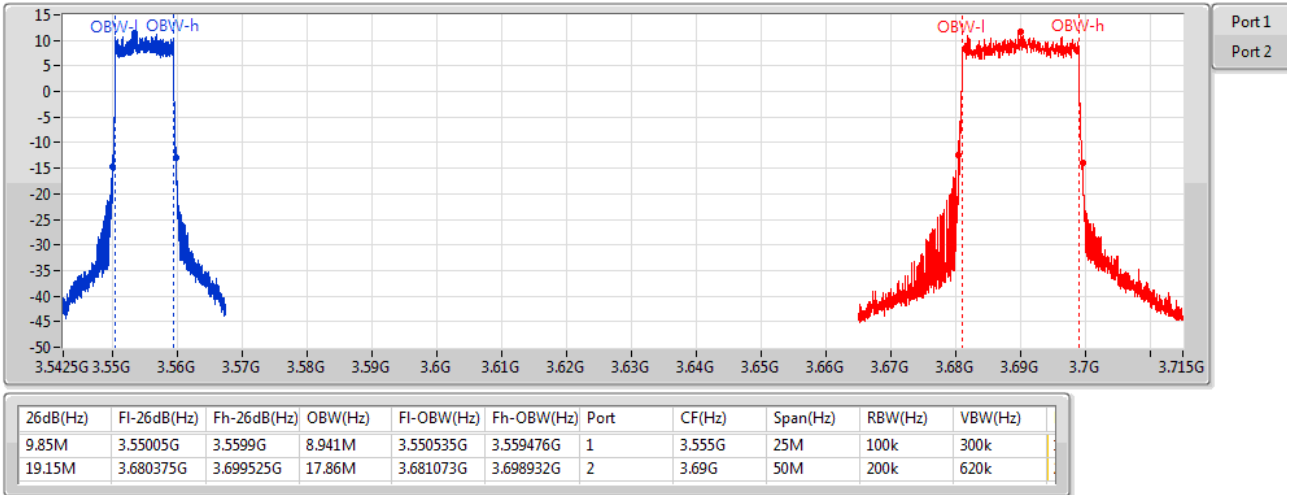
Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX

P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



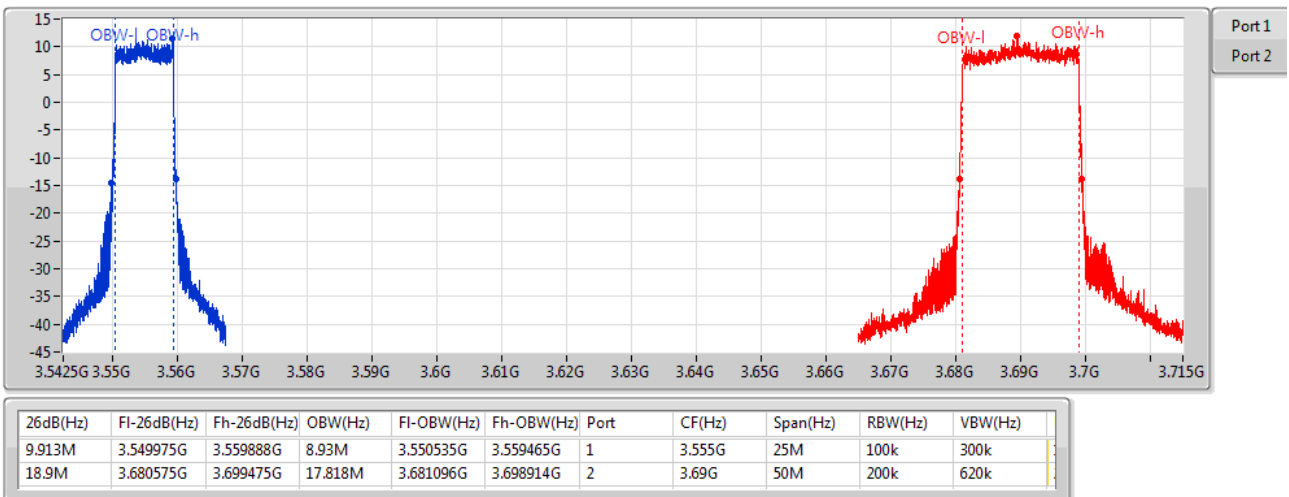
Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX

P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



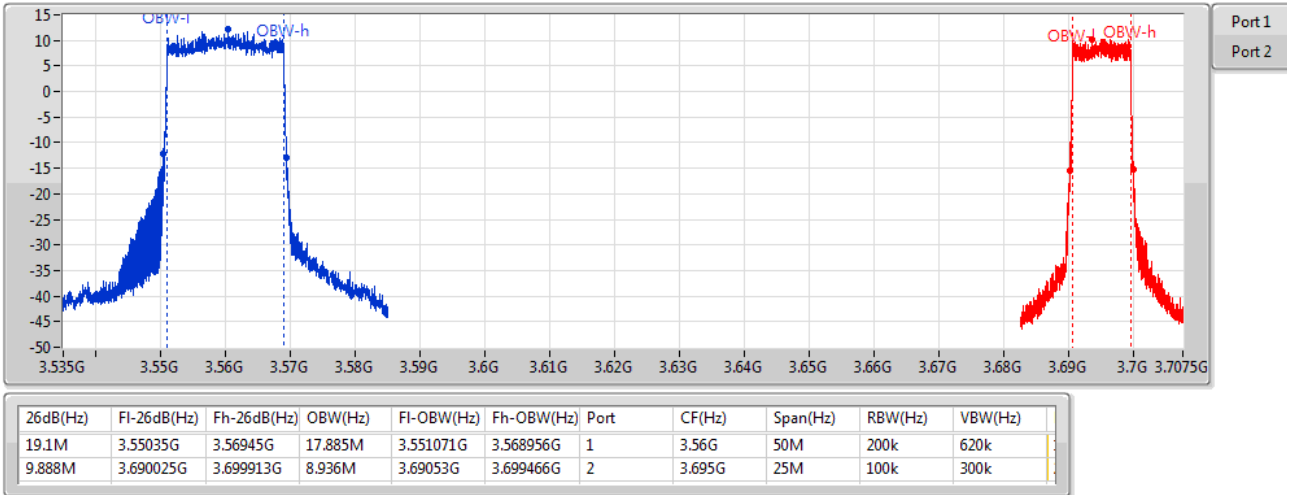
Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX

P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



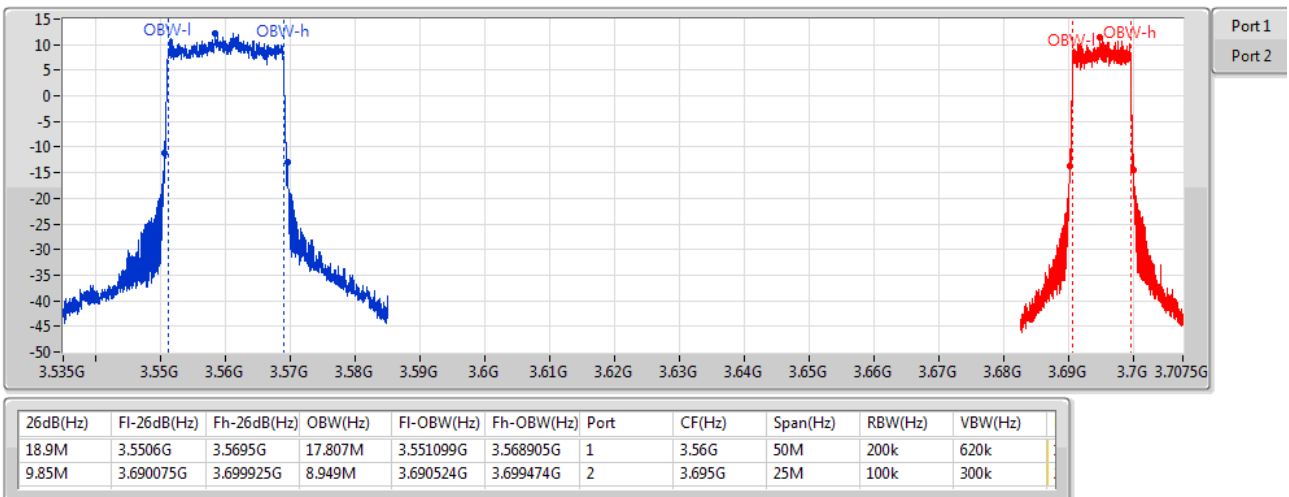
Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX

P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



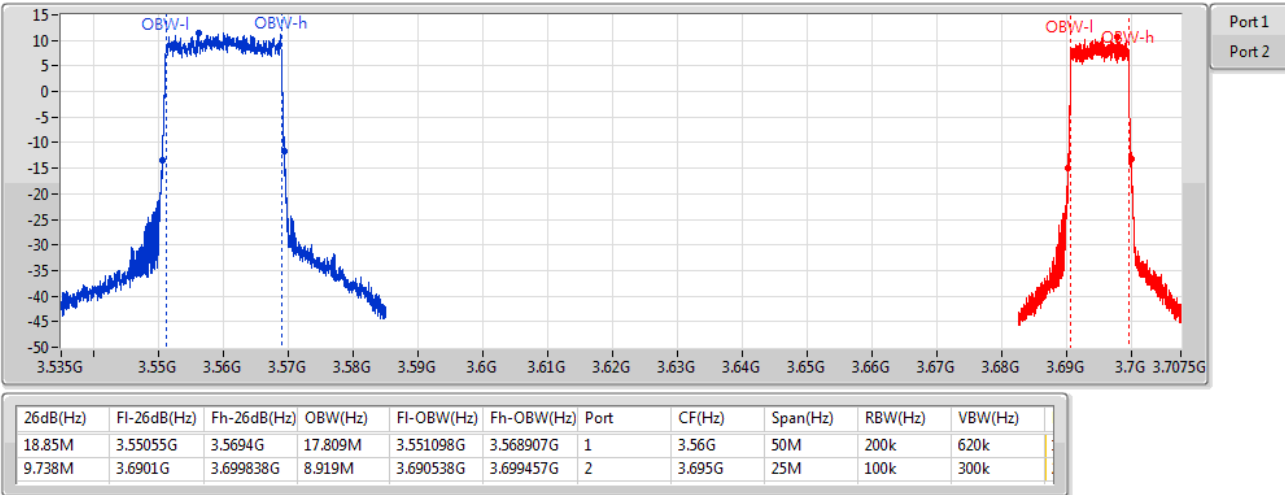
Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX

P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



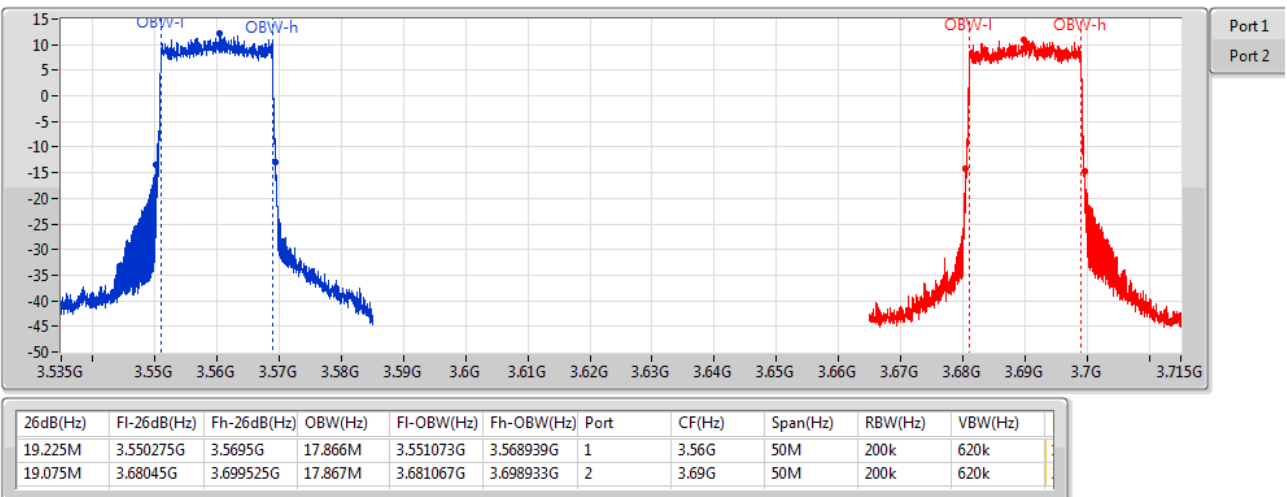
Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX

P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



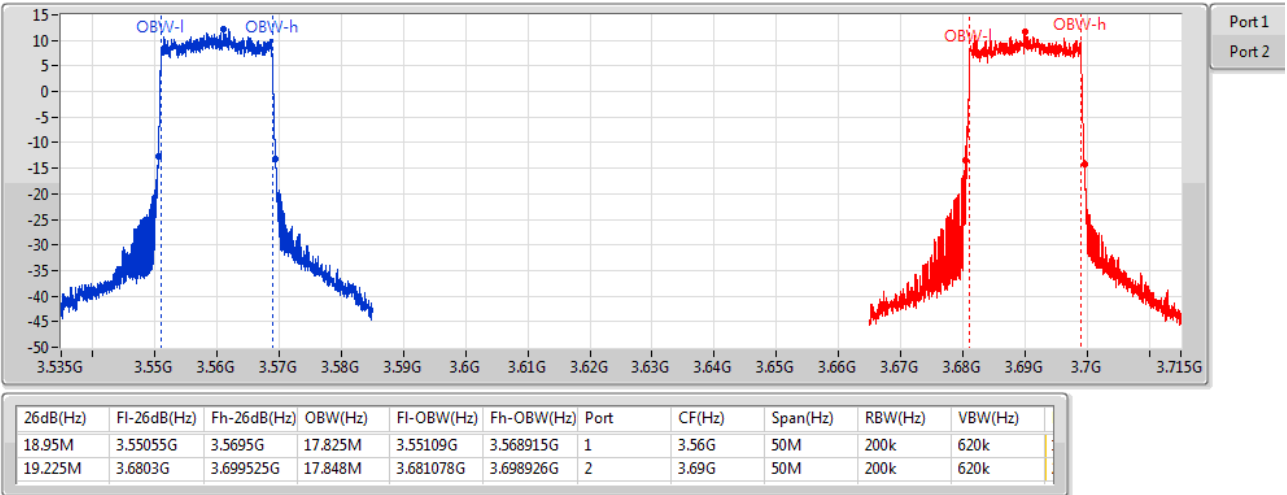
Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX

P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



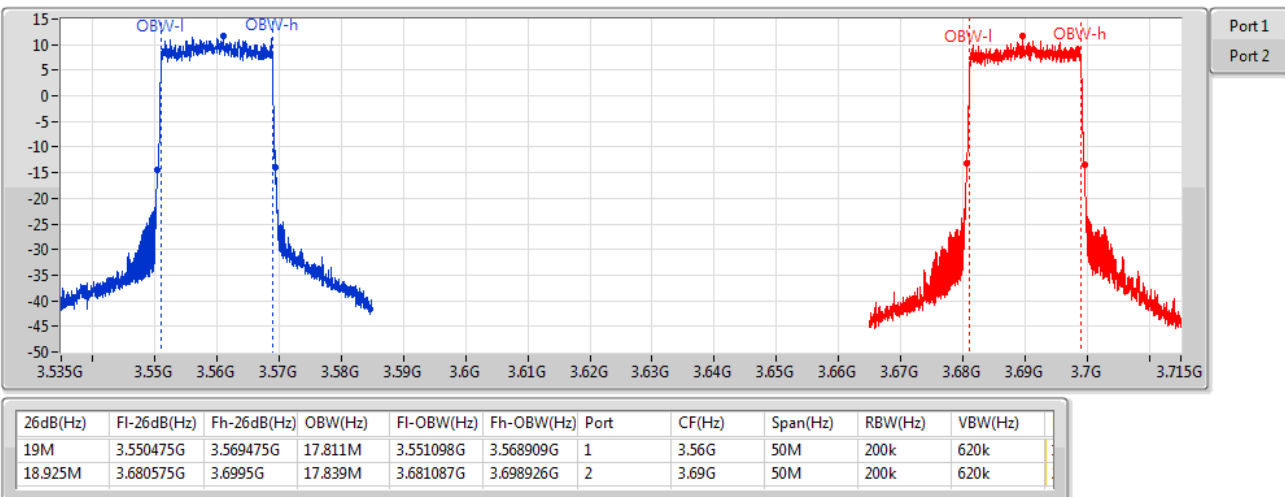
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX

P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX

P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



3.5 Peak to Average Ratio

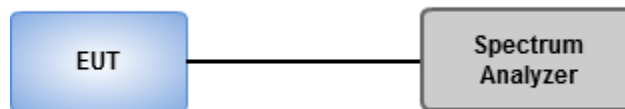
3.5.1 Limit of Peak to Average Ratio

Peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

3.5.2 Test Procedures

1. Enable CCDF function of spectrum analyzer and set RBW=10MHz.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.5.3 Test Setup



3.5.4 Test Result of Peak to Average Ratio (CDD Mode)

Single-carrier Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	3695	13.00	5.56	1
LTE_10MHz_Nss1,16QAM_2TX	Pass	3625	13.00	6.25	1
LTE_10MHz_Nss1,64QAM_2TX	Pass	3695	13.00	6.49	2
LTE_20MHz_Nss1,QPSK_2TX	Pass	3690	13.00	5.56	1
LTE_20MHz_Nss1,16QAM_2TX	Pass	3625	13.00	6.25	1
LTE_20MHz_Nss1,64QAM_2TX	Pass	3560	13.00	6.46	2

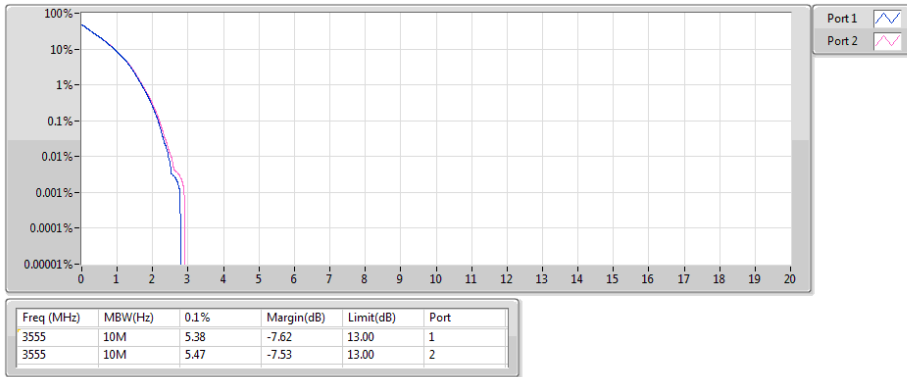
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	3555	13.00	5.38	1
3555MHz_QPSK_RB 50,#RB 0	Pass	3555	13.00	5.47	2
3625MHz_QPSK_RB 50,#RB 0	Pass	3625	13.00	5.49	1
3625MHz_QPSK_RB 50,#RB 0	Pass	3625	13.00	5.50	2
3695MHz_QPSK_RB 50,#RB 0	Pass	3695	13.00	5.56	1
3695MHz_QPSK_RB 50,#RB 0	Pass	3695	13.00	5.49	2
3555MHz_16QAM_RB 50,#RB 0	Pass	3555	13.00	6.16	1
3555MHz_16QAM_RB 50,#RB 0	Pass	3555	13.00	6.24	2
3625MHz_16QAM_RB 50,#RB 0	Pass	3625	13.00	6.25	1
3625MHz_16QAM_RB 50,#RB 0	Pass	3625	13.00	6.25	2
3695MHz_16QAM_RB 50,#RB 0	Pass	3695	13.00	6.10	1
3695MHz_16QAM_RB 50,#RB 0	Pass	3695	13.00	6.21	2
3555MHz_64QAM_RB 50,#RB 0	Pass	3555	13.00	6.39	1
3555MHz_64QAM_RB 50,#RB 0	Pass	3555	13.00	6.39	2
3625MHz_64QAM_RB 50,#RB 0	Pass	3625	13.00	6.46	1
3625MHz_64QAM_RB 50,#RB 0	Pass	3625	13.00	6.42	2
3695MHz_64QAM_RB 50,#RB 0	Pass	3695	13.00	6.45	1
3695MHz_64QAM_RB 50,#RB 0	Pass	3695	13.00	6.49	2
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	3560	13.00	5.30	1
3560MHz_QPSK_RB 100,#RB 0	Pass	3560	13.00	5.39	2
3625MHz_QPSK_RB 100,#RB 0	Pass	3625	13.00	5.47	1
3625MHz_QPSK_RB 100,#RB 0	Pass	3625	13.00	5.43	2
3690MHz_QPSK_RB 100,#RB 0	Pass	3690	13.00	5.56	1
3690MHz_QPSK_RB 100,#RB 0	Pass	3690	13.00	5.26	2
3560MHz_16QAM_RB 100,#RB 0	Pass	3560	13.00	6.11	1
3560MHz_16QAM_RB 100,#RB 0	Pass	3560	13.00	6.19	2
3625MHz_16QAM_RB 100,#RB 0	Pass	3625	13.00	6.25	1
3625MHz_16QAM_RB 100,#RB 0	Pass	3625	13.00	6.22	2
3690MHz_16QAM_RB 100,#RB 0	Pass	3690	13.00	6.14	1
3690MHz_16QAM_RB 100,#RB 0	Pass	3690	13.00	6.09	2
3560MHz_64QAM_RB 100,#RB 0	Pass	3560	13.00	6.42	1
3560MHz_64QAM_RB 100,#RB 0	Pass	3560	13.00	6.46	2
3625MHz_64QAM_RB 100,#RB 0	Pass	3625	13.00	6.38	1
3625MHz_64QAM_RB 100,#RB 0	Pass	3625	13.00	6.30	2
3690MHz_64QAM_RB 100,#RB 0	Pass	3690	13.00	6.45	1
3690MHz_64QAM_RB 100,#RB 0	Pass	3690	13.00	6.40	2

Band 48_LTE_10MHz_Nss1,QPSK_2TX

PAR

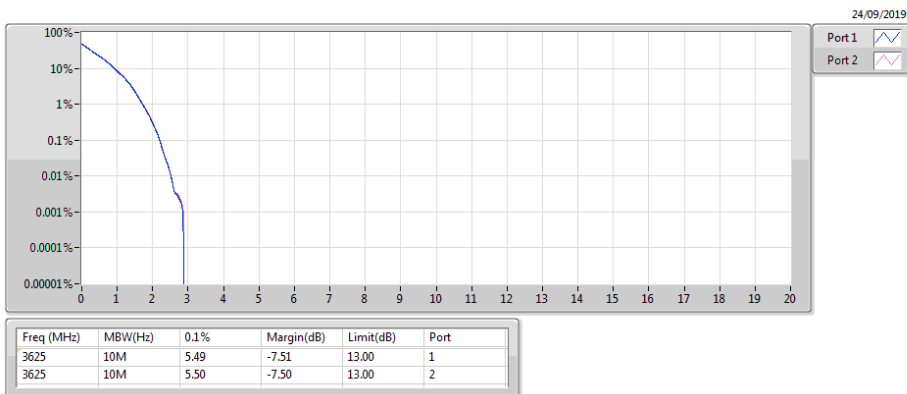
3555MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PAR

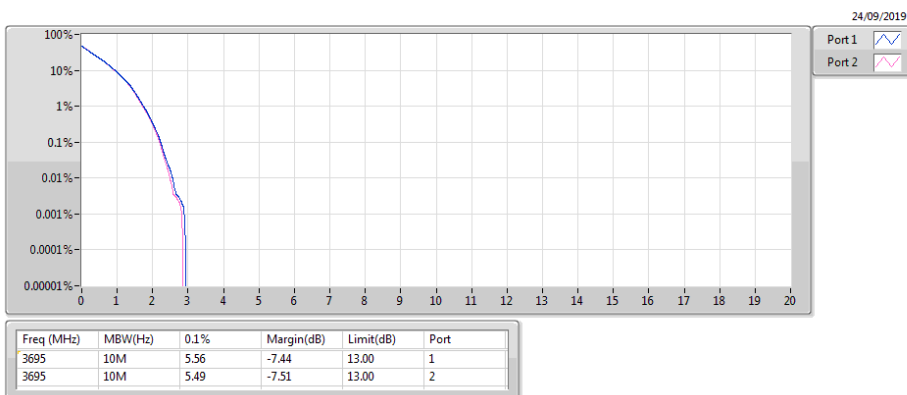
3625MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

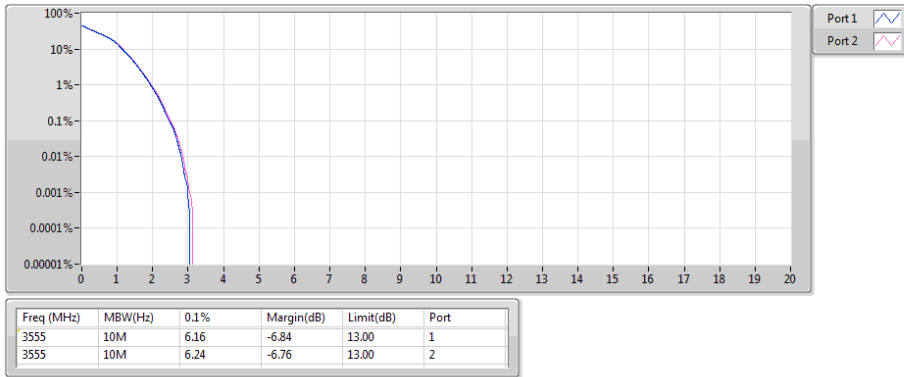
PAR

3695MHz_QPSK_RB 50,#RB 0



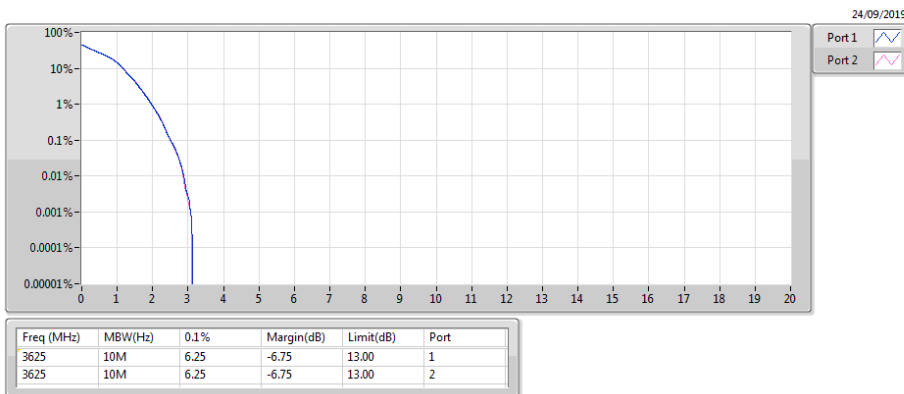
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

PAR



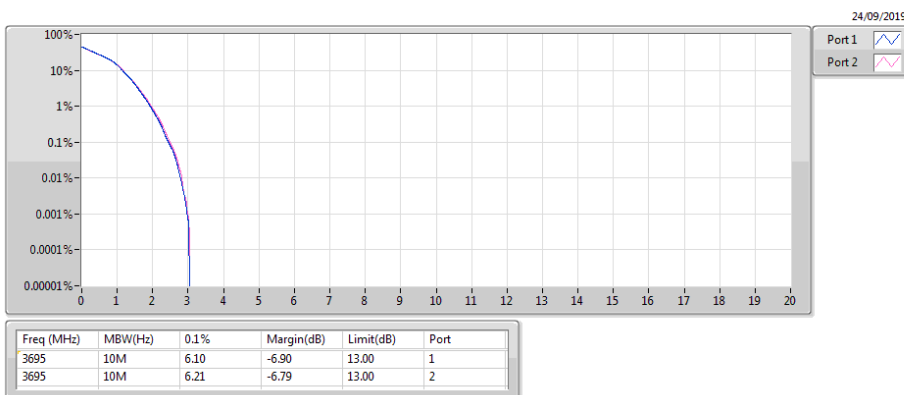
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 50,#RB 0

PAR



Band 48_LTE_10MHz_Nss1,16QAM_2TX
3695MHz_16QAM_RB 50,#RB 0

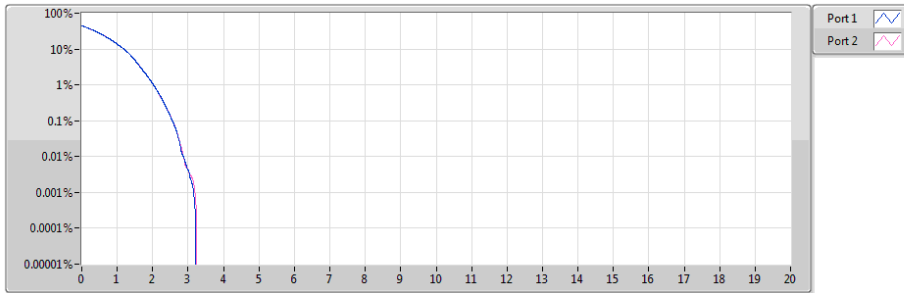
PAR



Band 48_LTE_10MHz_Nss1,64QAM_2TX

PAR

3555MHz_64QAM_RB 50,#RB 0

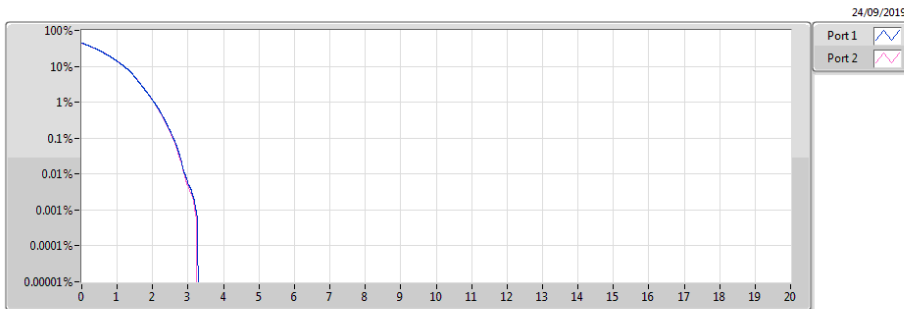


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	6.39	-6.61	13.00	1
3555	10M	6.39	-6.61	13.00	2

Band 48_LTE_10MHz_Nss1,64QAM_2TX

PAR

3625MHz_64QAM_RB 50,#RB 0

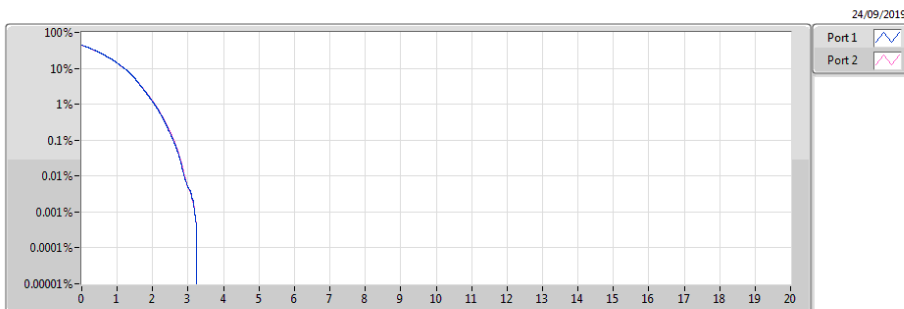


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	10M	6.46	-6.54	13.00	1
3625	10M	6.42	-6.58	13.00	2

Band 48_LTE_10MHz_Nss1,64QAM_2TX

PAR

3695MHz_64QAM_RB 50,#RB 0

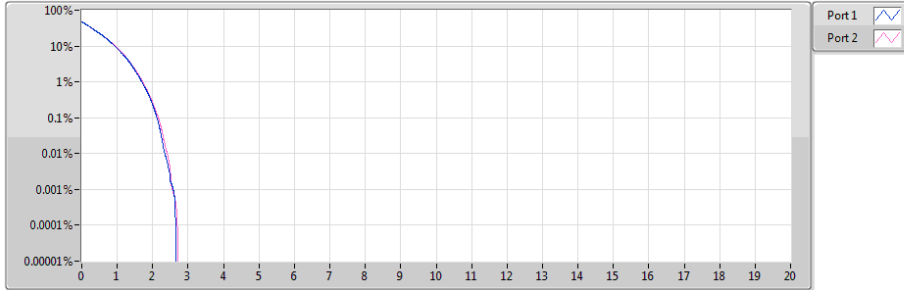


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3695	10M	6.45	-6.55	13.00	1
3695	10M	6.49	-6.51	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

3560MHz_QPSK_RB 100,#RB 0

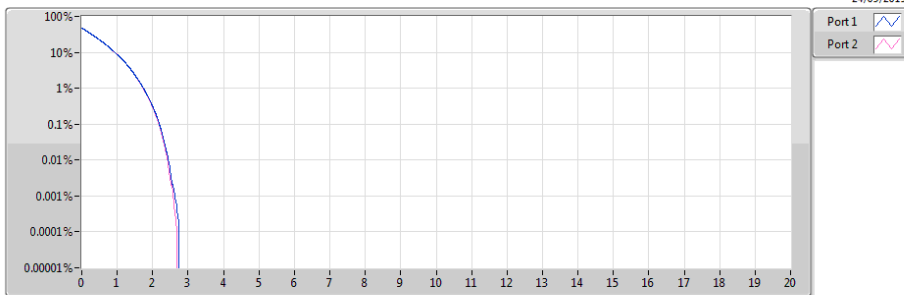


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.30	-7.70	13.00	1
3560	20M	5.39	-7.61	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

3625MHz_QPSK_RB 100,#RB 0

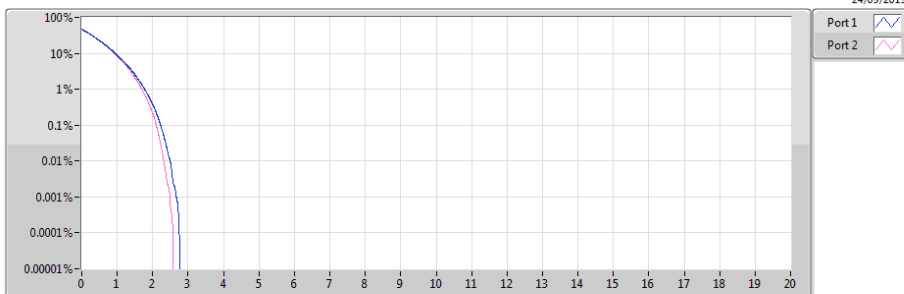


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	5.47	-7.53	13.00	1
3625	20M	5.43	-7.57	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

3690MHz_QPSK_RB 100,#RB 0

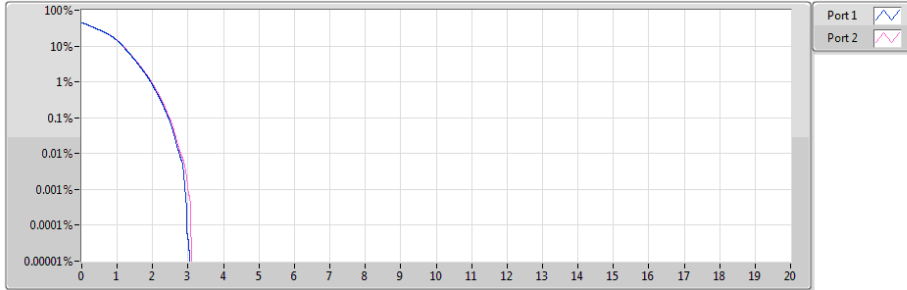


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	5.56	-7.44	13.00	1
3690	20M	5.26	-7.74	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PAR

3560MHz_16QAM_RB 100,#RB 0

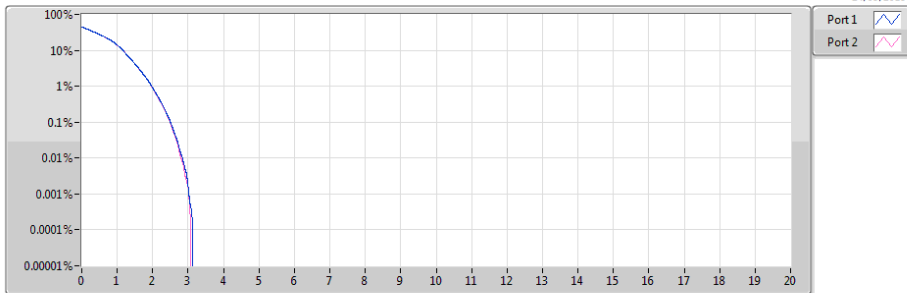


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.11	-6.89	13.00	1
3560	20M	6.19	-6.81	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PAR

3625MHz_16QAM_RB 100,#RB 0

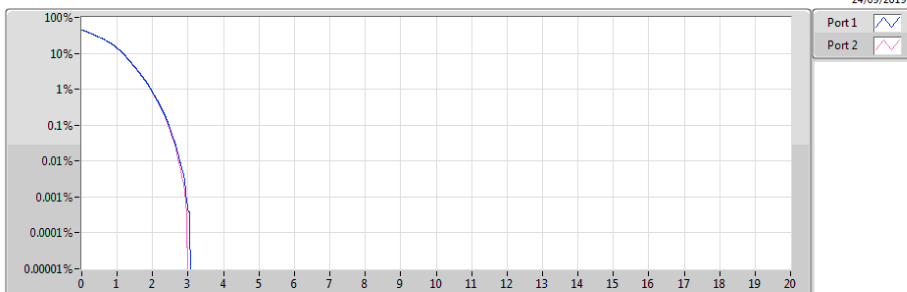


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	6.25	-6.75	13.00	1
3625	20M	6.22	-6.78	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX

PAR

3690MHz_16QAM_RB 100,#RB 0

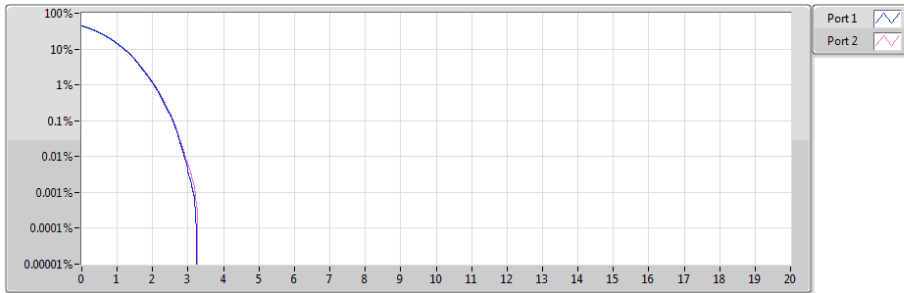


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	6.14	-6.86	13.00	1
3690	20M	6.09	-6.91	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX

PAR

3560MHz_64QAM_RB 100,#RB 0

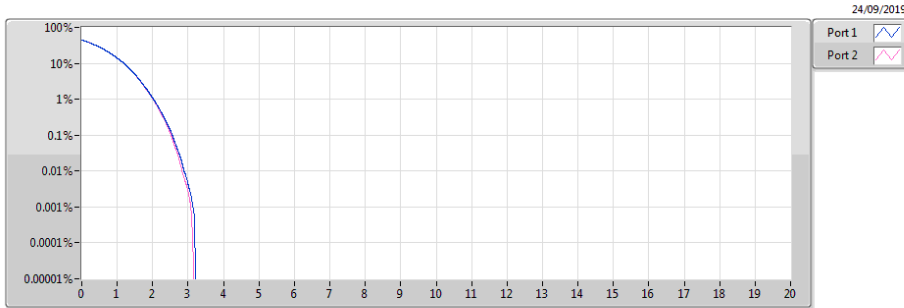


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.42	-6.58	13.00	1
3560	20M	6.46	-6.54	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX

PAR

3625MHz_64QAM_RB 100,#RB 0

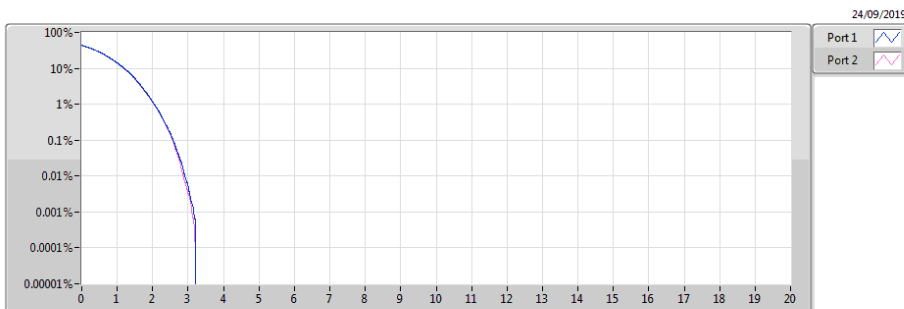


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	6.38	-6.62	13.00	1
3625	20M	6.30	-6.70	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX

PAR

3690MHz_64QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	6.45	-6.55	13.00	1
3690	20M	6.40	-6.60	13.00	2

3.5.5 Test Result of Peak to Average Ratio (CA Mode)

Multi-carrier Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48	-	-	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	Pass	3555	13.00	5.69	1
LTE_10MHz+10MHz_Nss1,16QAM_2TX	Pass	3695	13.00	6.51	2
LTE_10MHz+10MHz_Nss1,64QAM_2TX	Pass	3695	13.00	6.62	2
LTE_10MHz+20MHz_Nss1,QPSK_2TX	Pass	3555	13.00	5.68	1
LTE_10MHz+20MHz_Nss1,16QAM_2TX	Pass	3690	13.00	6.60	2
LTE_10MHz+20MHz_Nss1,64QAM_2TX	Pass	3690	13.00	6.67	2
LTE_20MHz+10MHz_Nss1,QPSK_2TX	Pass	3695	13.00	5.66	2
LTE_20MHz+10MHz_Nss1,16QAM_2TX	Pass	3695	13.00	6.51	2
LTE_20MHz+10MHz_Nss1,64QAM_2TX	Pass	3695	13.00	6.63	2
LTE_20MHz+20MHz_Nss1,QPSK_2TX	Pass	3690	13.00	5.70	2
LTE_20MHz+20MHz_Nss1,16QAM_2TX	Pass	3690	13.00	6.56	2
LTE_20MHz+20MHz_Nss1,64QAM_2TX	Pass	3690	13.00	6.62	2

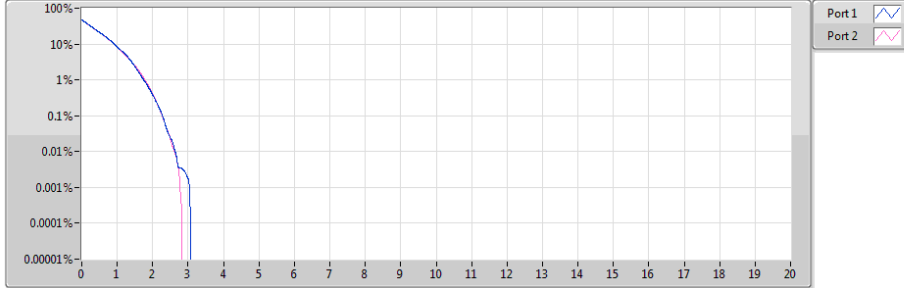
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	5.69	1
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	5.67	2
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	6.35	1
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	6.51	2
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	6.57	1
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	6.62	2
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	5.68	1
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.68	2
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	6.41	1
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	6.60	2
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	6.57	1
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	6.67	2
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	5.61	1
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	5.66	2
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	6.36	1
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	6.51	2
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	6.48	1
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	6.63	2
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	5.60	1
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.70	2
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	6.34	1
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	6.56	2
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	6.49	1
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	6.62	2

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX

PAR

P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0

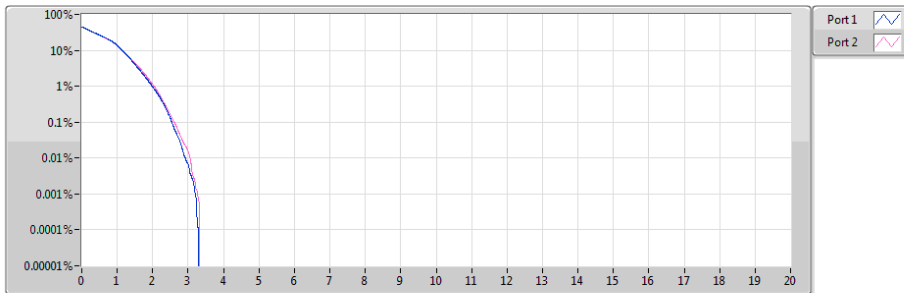


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	5.69	-7.31	13.00	1
3695	10M	5.67	-7.33	13.00	2

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX

PAR

P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0

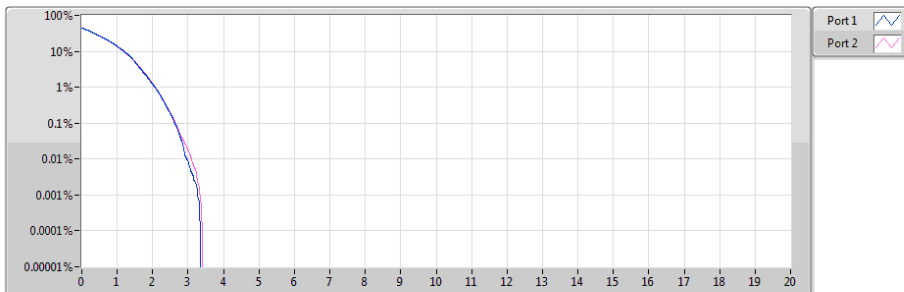


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	6.35	-6.65	13.00	1
3695	10M	6.51	-6.49	13.00	2

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX

PAR

P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0

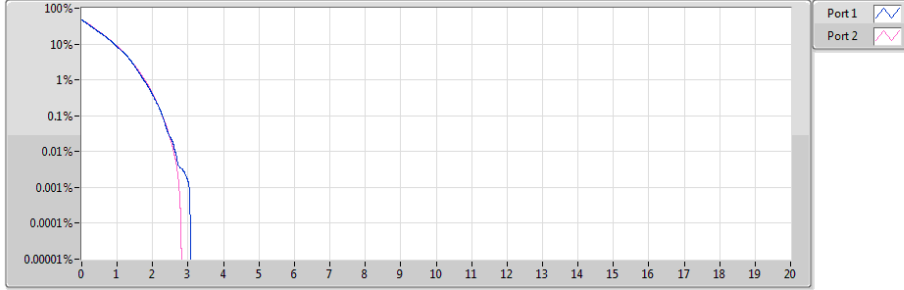


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	6.57	-6.43	13.00	1
3695	10M	6.62	-6.38	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX

PAR

P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0

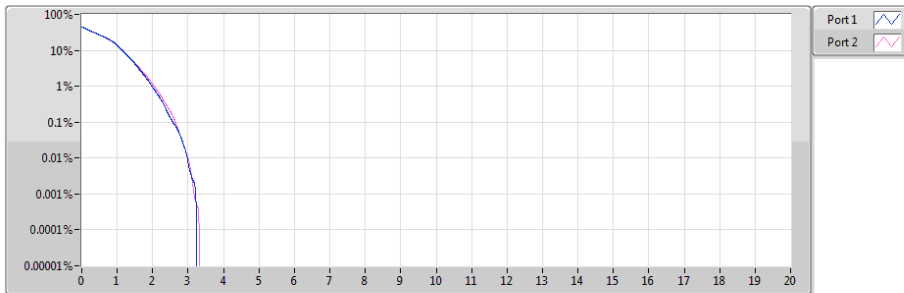


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	5.68	-7.32	13.00	1
3690	20M	5.68	-7.32	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX

PAR

P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0

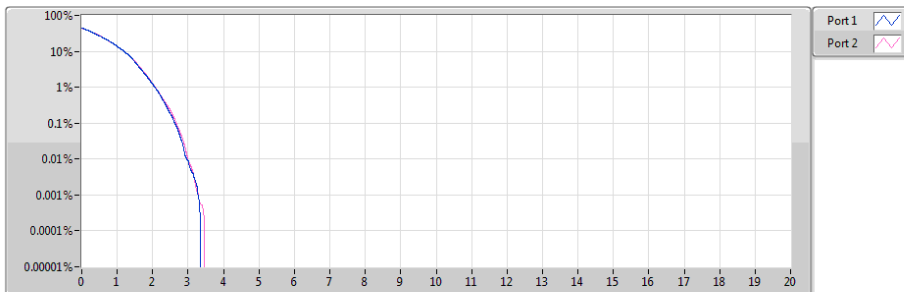


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	6.41	-6.59	13.00	1
3690	20M	6.60	-6.40	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX

PAR

P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0

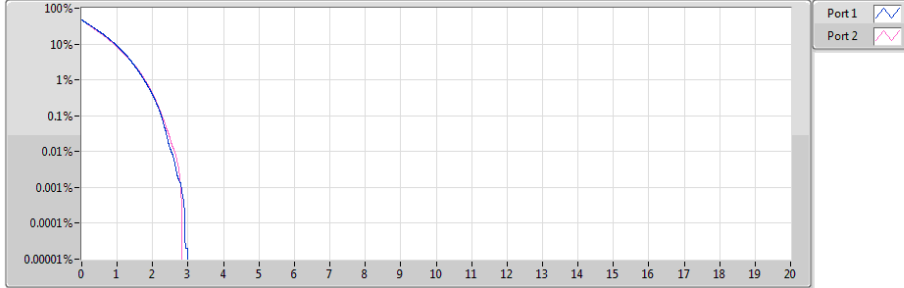


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	10M	6.57	-6.43	13.00	1
3690	20M	6.67	-6.33	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX

PAR

P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0

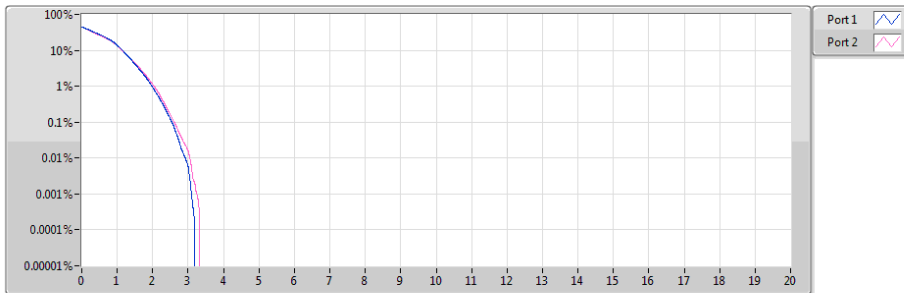


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.61	-7.39	13.00	1
3695	10M	5.66	-7.34	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX

PAR

P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0

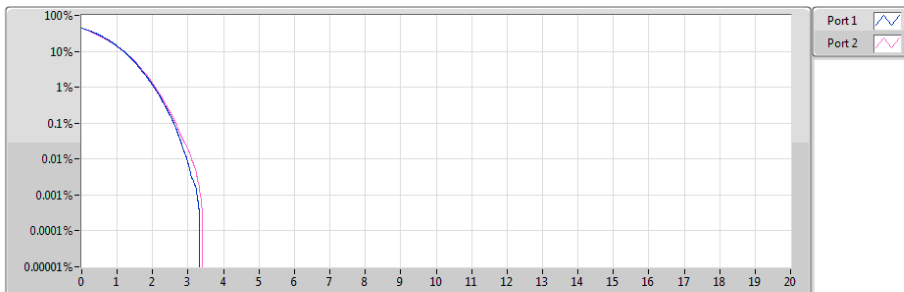


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.36	-6.64	13.00	1
3695	10M	6.51	-6.49	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX

PAR

P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0

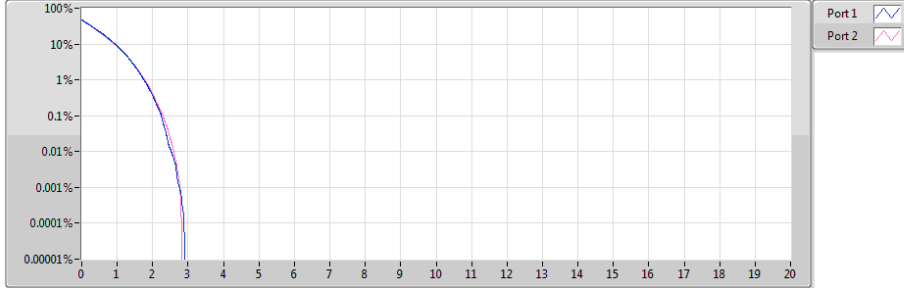


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.48	-6.52	13.00	1
3695	10M	6.63	-6.37	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX

PAR

P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

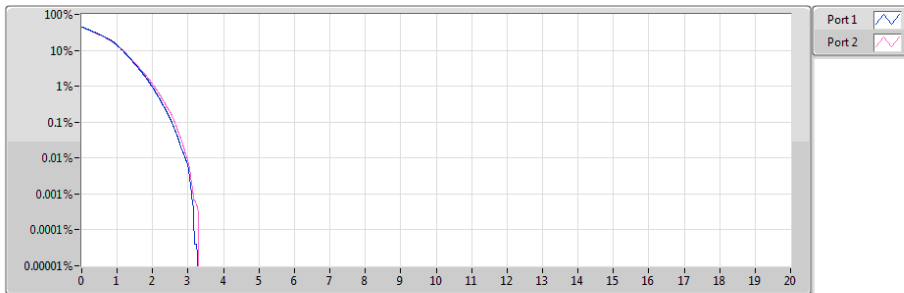


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.60	-7.40	13.00	1
3690	20M	5.70	-7.30	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX

PAR

P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

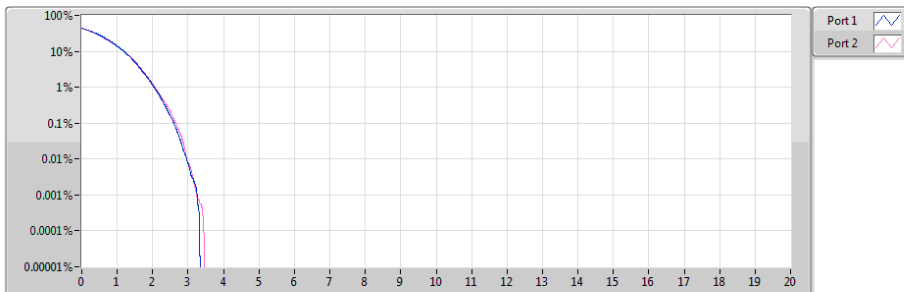


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.34	-6.66	13.00	1
3690	20M	6.56	-6.44	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX

PAR

P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.49	-6.51	13.00	1
3690	20M	6.62	-6.38	13.00	2

3.6 Frequency Stability

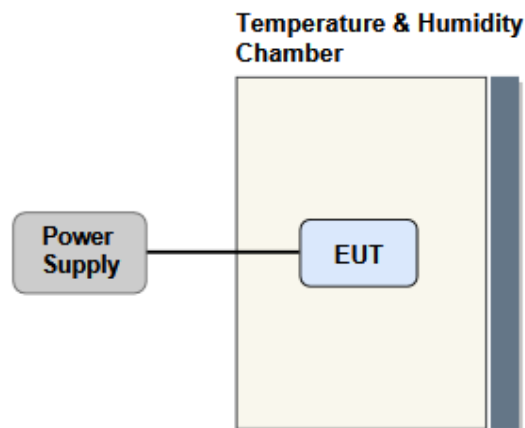
3.6.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation

3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -40 ~ 55 °C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability (CDD Mode)

Channel Bandwidth: 10MHz

Frequency: 3625 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.02
T55°CVnom		0.02
T50°CVnom		0.02
T40°CVnom		0.02
T30°CVnom		0.01
T20°CVnom		0.02
T10°CVnom		0.01
T0°CVnom		0.02
T-10°CVnom		0.02
T-20°CVnom		0.01
T-30°CVnom		0.02
T-40°CVnom		0.01
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 20MHz

Frequency: 3625 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.01
T55°CVnom		0.01
T50°CVnom		0.02
T40°CVnom		0.01
T30°CVnom		0.01
T20°CVnom		0.02
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.02
T-20°CVnom		0.01
T-30°CVnom		0.02
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

3.6.5 Test Result of Frequency Stability (CA Mode)

Channel Bandwidth: 10+10MHz / 1Carrier-PCC

Frequency: 3555 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.02
T55°CVnom		0.01
T50°CVnom		0.01
T40°CVnom		0.01
T30°CVnom		0.02
T20°CVnom		0.02
T10°CVnom		0.01
T0°CVnom		0.02
T-10°CVnom		0.01
T-20°CVnom		0.01
T-30°CVnom		0.02
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 10+10MHz / 2Carrier-SCC

Frequency: 3695 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.02
T20°CVmin		0.02
T55°CVnom		0.01
T50°CVnom		0.01
T40°CVnom		0.02
T30°CVnom		0.02
T20°CVnom		0.02
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.01
T-20°CVnom		0.01
T-30°CVnom		0.01
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 10+20MHz / 1Carrier-PCC

Frequency: 3555 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.02
T20°CVmin		0.01
T55°CVnom		0.01
T50°CVnom		0.01
T40°CVnom		0.02
T30°CVnom		0.01
T20°CVnom		0.02
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.01
T-20°CVnom		0.01
T-30°CVnom		0.01
T-40°CVnom		0.01
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 10+20MHz / 2Carrier-SCC

Frequency: 3690 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.01
T55°CVnom		0.02
T50°CVnom		0.02
T40°CVnom		0.02
T30°CVnom		0.01
T20°CVnom		0.01
T10°CVnom		0.01
T0°CVnom		0.02
T-10°CVnom		0.02
T-20°CVnom		0.02
T-30°CVnom		0.01
T-40°CVnom		0.01
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 20+10MHz / 1Carrier-PCC

Frequency: 3560 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.01
T55°CVnom		0.02
T50°CVnom		0.02
T40°CVnom		0.02
T30°CVnom		0.02
T20°CVnom		0.01
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.02
T-20°CVnom		0.02
T-30°CVnom		0.01
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 20+10MHz / 2Carrier-SCC

Frequency: 3695 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.02
T55°CVnom		0.02
T50°CVnom		0.02
T40°CVnom		0.02
T30°CVnom		0.01
T20°CVnom		0.01
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.01
T-20°CVnom		0.02
T-30°CVnom		0.02
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 20+20MHz / 1Carrier-PCC

Frequency: 3560 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.01
T55°CVnom		0.01
T50°CVnom		0.02
T40°CVnom		0.02
T30°CVnom		0.01
T20°CVnom		0.01
T10°CVnom		0.01
T0°CVnom		0.02
T-10°CVnom		0.01
T-20°CVnom		0.01
T-30°CVnom		0.2
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

Channel Bandwidth: 20+20MHz / 2Carrier-SCC

Frequency: 3690 MHz		Frequency Drift (ppm)
Temperature (°C)		
T20°CVmax		0.01
T20°CVmin		0.01
T55°CVnom		0.02
T50°CVnom		0.01
T40°CVnom		0.01
T30°CVnom		0.02
T20°CVnom		0.01
T10°CVnom		0.01
T0°CVnom		0.01
T-10°CVnom		0.02
T-20°CVnom		0.02
T-30°CVnom		0.01
T-40°CVnom		0.02
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -40

3.7 Reception Limits

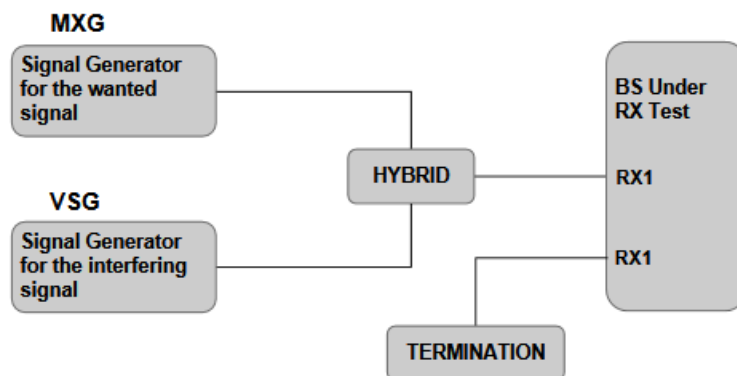
3.7.1 Description of Reception Limits

Priority Access Licensees must accept adjacent channel and in-band blocking interference (emissions from other authorized Priority Access or GAA CBSDs transmitting between 3550 and 3700 MHz) up to a power spectral density level not to exceed -40dBm in any direction with greater than 99% probability when integrated over a 10 megahertz reference bandwidth.

3.7.2 Test Procedures

1. Generate the wanted signal and adjust the input level to specified power level.
2. Select low, middle and high channels for each modulation.
3. For adjacent channel interference, set up the interfering signals at the adjacent channel frequency and adjust the interfering signal level to -40dBm at receiver antenna ports.
4. For in-band blocking interference, set up the interfering signal in the frequency range from 3550MHz to 3700MHz and adjust the interfering signal level to -40dBm at receiver antenna ports.
5. Measure and check the throughput of the EUT greater than 99% probability.

3.7.3 Test Setup



3.7.4 Test Result of Reception Limits (CDD Mode)

Mode	Interference Power Level (dBm)	Port 1 wanted signal power Level (dBm)	Port 1 Adjacent Channel selectivity Throughput (%)	Port 1 In-Band blocking Throughput (%)	Port 2 wanted signal power Level (dBm)	Port 2 Adjacent Channel selectivity Throughput (%)	Port 2 In-Band blocking Throughput (%)	Limit (%)
CB:10MHz,3625MHz RB offset=0	-40	-87.5	100	99.58	-87.5	100	99.53	99
CB:10MHz,3625MHz RB offset=25	-40	-87.5	100	99.84	-87.5	100	99.68	99

Mode	Interference Power Level (dBm)	Port 1 wanted signal power Level (dBm)	Port 1 Adjacent Channel selectivity Throughput (%)	Port 1 In-Band blocking Throughput (%)	Port 2 wanted signal power Level (dBm)	Port 2 Adjacent Channel selectivity Throughput (%)	Port 2 In-Band blocking Throughput (%)	Limit (%)
CB:20MHz,3625MHz RB offset=0	-40	-84.5	100	99.98	-84.5	100	99.99	99
CB:20MHz,3625MHz RB offset=25	-40	-84.5	100	99.98	-84.5	100	99.99	99
CB:20MHz,3625MHz RB offset=50	-40	-84.5	100	99.99	-84.5	100	99.99	99
CB:20MHz,3625MHz RB offset=75	-40	-84.5	100	99.99	-84.5	100	99.99	99

3.7.5 Test Result of Reception Limits (CA Mode)

Mode	Interference Power Level (dBm)	Port 1 wanted signal power Level (dBm)	Port 1 Adjacent Channel selectivity Throughput (%)	Port 1 In-Band blocking Throughput (%)	Port 2 wanted signal power Level (dBm)	Port 2 Adjacent Channel selectivity Throughput (%)	Port 2 In-Band blocking Throughput (%)	Limit (%)
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:10MHz,3695MHz RB offset=0	-40	-87.5	100	99.97	-87.5	100	99.97	99
PCC BW:10MHz,3555MHz RB offset=25 SCC BW:10MHz,3695MHz RB offset=25	-40	-87.5	100	99.97	-87.5	100	99.98	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=0	-40	-87.5	100	99.97	-84.5	100	99.99	99
PCC BW:10MHz,3555MHz RB offset=25 SCC BW:20MHz,3690MHz RB offset=25	-40	-87.5	100	99.97	-84.5	100	99.97	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=50	-40	-87.5	100	99.97	-84.5	100	99.99	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=75	-40	-87.5	100	99.97	-84.5	100	99.98	99

Mode	Interference Power Level (dBm)	Port 1 wanted signal power Level (dBm)	Port 1 Adjacent Channel selectivity Throughput (%)	Port 1 In-Band blocking Throughput (%)	Port 2 wanted signal power Level (dBm)	Port 2 Adjacent Channel selectivity Throughput (%)	Port 2 In-Band blocking Throughput (%)	Limit (%)
PCC BW:20MHz,3560MHz RB offset=0 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	100	99.98	-87.5	100	99.98	99
PCC BW:20MHz,3560MHz RB offset=25 SCC BW:10MHz,3695MHz RB offset=25	-40	-84.5	100	99.98	-87.5	100	99.97	99
PCC BW:20MHz,3560MHz RB offset=50 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	100	99.98	-87.5	100	99.97	99
PCC BW:20MHz,3560MHz RB offset=75 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	100	99.98	-87.5	100	99.97	99
PCC BW:20MHz,3560MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=0	-40	-84.5	100	100	-84.5	100	100	99
PCC BW:20MHz,3560MHz RB offset=25 SCC BW:20MHz,3690MHz RB offset=25	-40	-84.5	100	100	-84.5	100	99.98	99
PCC BW:20MHz,3560MHz RB offset=50 SCC BW:20MHz,3690MHz RB offset=50	-40	-84.5	100	100	-84.5	100	99.99	99
PCC BW:20MHz,3560MHz RB offset=75 SCC BW:20MHz,3695MHz RB offset=75	-40	-84.5	100	100	-84.5	100	99.99	99

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==