



FCC RADIO TEST REPORT

FCC ID : S9GQ910US02
Equipment : Q910 LTE Access Point
Brand Name : Ruckus
Model Name : Q910-US02
Applicant : Ruckus Wireless, Inc.
350 West Java Drive Sunnyvale California 94089 USA
Manufacturer : Ruckus Wireless, Inc.
350 West Java Drive Sunnyvale California 94089 USA
Standard : 47 CFR FCC Part2, 96

The product was received on Feb. 27, 2019, and testing was started from Mar. 16, 2019 and completed on May 08, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA-603-E-2016, ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1046	Conducted Output Power	PASS	-
3.2	96.41(b)	Maximum Effective Isotropic Radiated Power (EIRP)	PASS	-
3.3	96.41(b)	Maximum Power Spectral Density (PSD)	PASS	-
3.4	96.41(f)	Reception limits	PASS	-
3.5	96.41(g)	Peak-to-average power ratio	PASS	-
3.6	2.1049	99% OBW and 26dB Bandwidth	PASS	-
3.7	2.1051 96.41(e)	3.5 GHz Emissions and Interference Limits	PASS	-
3.8	2.1053	Field Strength of Spurious Radiation	PASS	-
3.9	2.1055	Frequency Stability for Temperature & Voltage	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.

Reviewed by: Sam Chen

Report Producer: Viola Huang



1 General Description

1.1 Product Feature of Equipment Under Test

Items	Description
Power Type	From PoE
EUT supports Radios application	LTE

1.2 Product Specification subjective to this standard

Items	Description
Base Station Classes	☐ Wide Area Base Station (Macro Cell) ☒ Medium Range Base Station (Micro Cell) ☐ Local Area Base Station (Pico Cell) ☐ Home Base Station (Femto Cell)
Category of CBSD	☐ Category A ☒ Category B
Professional Installation	☒ Yes / ☐ No
Multi-carrier and/or CA	☒ Yes / ☐ No
RF Test Tool Software of CBSD	SmallCell DVT Test Client (1.0.316.001)
TX Frequency	10 MHz: 3555 MHz ~ 3695 MHz 20 MHz: 3560 MHz ~ 3690 MHz
RX Frequency	10 MHz: 3555 MHz ~ 3695 MHz 20 MHz: 3560 MHz ~ 3690 MHz
Bandwidth (MHz)	10/20 / 20+20
Maximum Output Power to Antenna	<Single-carrier> 10MHz: 24.43 dBm 20MHz: 26.13 dBm <Multi-carrier and/or CA> 20MHz+20MHz: 26.89 dBm
Maximum 99% Occupied Bandwidth	<Single-carrier> 10 MHz: 8.95 MHz 20 MHz: 17.77 MHz <Multi-carrier and/or CA> 20MHz+20MHz: 17.86 MHz
Type of Modulation	☒ QPSK ☒ 16QAM ☒ 64QAM ☐ 256QAM

Note: The above information was declared by manufacturer.



1.3 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Ant. Gain (dBi)	Cable Loss (dB)	True Gain (dBi)	Remark
1	2	Ruckus	Q910-US00	Internal BeamFlex	I-PEX	3	0.90	2.10	LTE Ant.
2	3	Ruckus	Q910-US00	Internal BeamFlex	I-PEX	3	0.75	2.25	LTE Ant.
3	1	Ruckus	Q910-US00	Internal BeamFlex	I-PEX	3	1.30	1.70	LTE Ant.
4	4	Ruckus	Q910-US00	Internal BeamFlex	I-PEX	3	1.13	1.87	LTE Ant.

Note 1:

Single-carrier:

Both Port 1 and Port 2 could transmit/receive simultaneously.

Multi-carrier and/or CA:

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

Note 2:

The above information was declared by manufacturer.

1.4 Maximum EIRP Power, Frequency Tolerance, and Emission Designator

<Single-carrier>

FCC Rule	System	Bandwidth	Type of Modulation	Maximum EIRP (dBm/10MHz)	EIRP (W)	Maximum EIRP (dBm/20MHz)	EIRP (W)	Frequency Stability	Emission Designator
Part 96	LTE Band 48	10MHz	QPSK	26.47	0.444	-	-	With in the authorized bands of operation	8M95G7D
			16QAM	26.53	0.450	-	-		8M93W7D
			64QAM	26.52	0.449	-	-		8M91W7D
		20MHz	QPSK	-	-	28.23	0.665		17M8G7D
			16QAM	-	-	28.13	0.650		17M8W7D
			64QAM	-	-	28.19	0.659		17M8W7D

<Multi-carrier and/or CA>

FCC Rule	System	Bandwidth	Type of Modulation	Maximum EIRP (dBm/20+20MHz)	EIRP (W)	Frequency Stability	Emission Designator
Part 96	LTE Band 48	20MHz+20MHz	QPSK	29.14	0.820	With in the authorized bands of operation	35M6G7D
			16QAM	28.21	0.662		35M6W7D
			64QAM	27.84	0.608		35M6W7D

1.5 Accessories

Wall-mounted rack (Long)*1
Wall-mounted rack (Short)*1



1.6 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Spectrum	Agilent	N9010A	N/A
C	PoE	Microsemi	PD-9001GR/AT/AC	N/A

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part2, 96
- ANSI / TIA-603-E-2016
- ANSI C63.26-2015
- FCC KDB 971168 D01 v03r01
- FCC KDB 940660 D01 v02
- FCC KDB 412172 D01 v01r01
- FCC KDB 662911 D01 v02r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.8 Testing Location

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)		
		TEL : 886-3-327-3456 FAX : 886-3-327-0973		
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.		
		TEL : 886-3-656-9065 FAX : 886-3-656-9085		
Test Condition		Test Site No.	Test Engineer	Test Environment
RF Conducted		TH01-CB	Lucke Hsieh	23~25°C / 60~62%
Radiated Emission		03CH01-CB	Lucke Hsieh	23~25°C / 58~60%

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B with Industry Canada.

2 Test Configuration of Equipment Under Test

2.1 Test Frequency

The EUT was tested in the following operating modes, unless otherwise stated:

Single-carrier			
Bandwidth (MHz)	Bottom Channel (B) (MHz)	Middle Channel (M) (MHz)	Top Channel (T) (MHz)
10	3555	3625	3695
20	3560	3625	3690

Multi-carrier and/or CA (Non-contiguous)			
Bandwidth (MHz)	Bottom Channel (B) (MHz)	Middle Channel (M) (MHz)	Top Channel (T) (MHz)
20+20	-	3560 + 3690	-

Multi-carrier and/or CA (Contiguous)			
Bandwidth (MHz)	Bottom Channel (B) (MHz)	Middle Channel (M) (MHz)	Top Channel (T) (MHz)
20+20	3560 + 3580	3615 + 3635	3670 + 3690



2.2 Test Mode

Test Item	Bandwidth (MHz)	Tested Frequency (MHz)	Mode
Conducted Output Power	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
Maximum Effective Isotropic Radiated Power (EIRP)	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
Maximum Power Spectral Density (PSD)	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
Reception limits	10,20, 20+20	M	-
Peak-to-average power ratio	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
99% OBW and 26dB Bandwidth	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
3.5 GHz Emissions and Interference Limits	10,20, 20+20	B,M,T	QPSK,16-QAM,64-QAM
Field Strength of Spurious Radiation	20, 20+20	B,M,T	QPSK
Frequency Stability for Temperature & Voltage	10,20, 20+20	B, T	QPSK,16-QAM,64-QAM

Note 1:

B: Bottom

M: Middle

T: Top

Note 2:

For Field Strength of Spurious Radiation test:

<Below 1GHz>

The EUT can be placed in Y-axis and Z-axis.

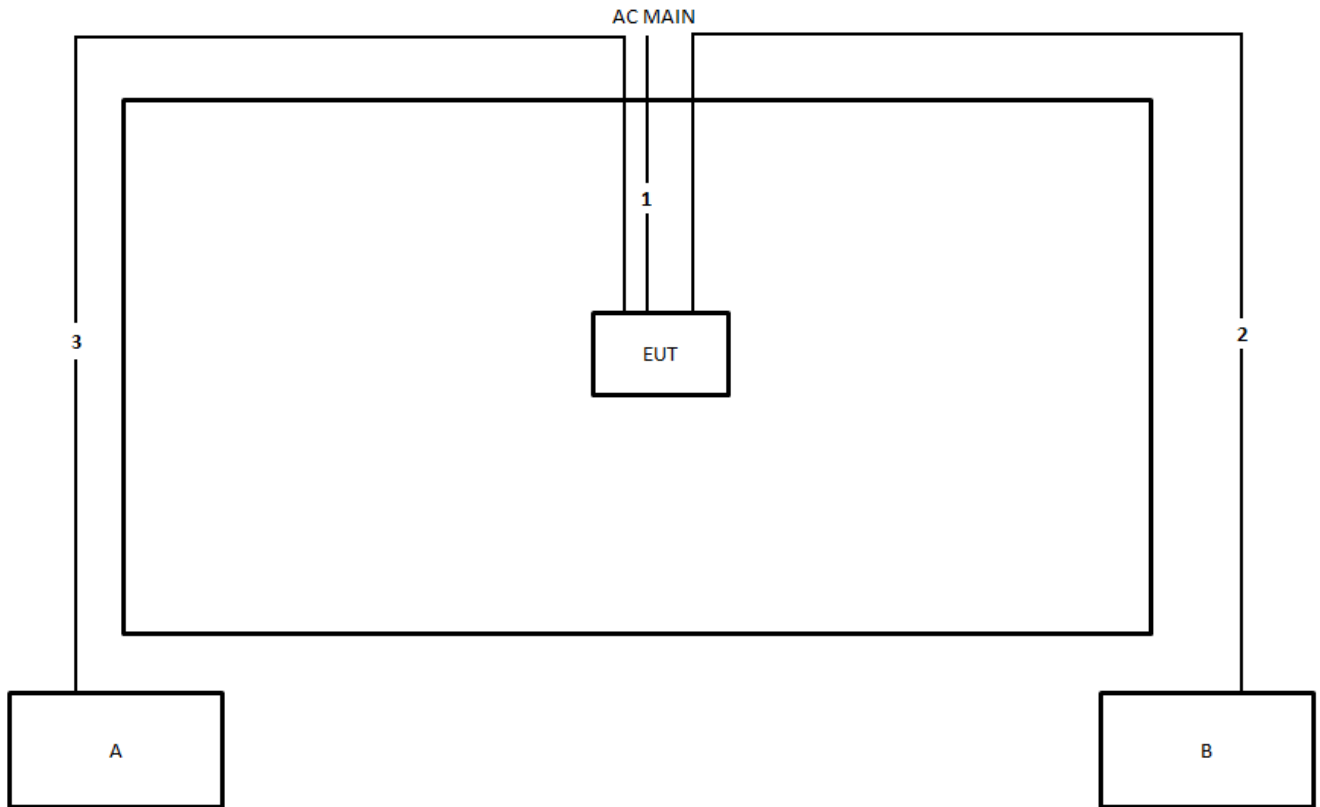
EUT Y axis has been evaluated to be the worst case at Field Strength of Spurious Radiation<Above 1GHz>; thus, the measurement will follow this same test configuration.

<Above 1GHz>

The EUT can be placed in Y-axis and Z-axis. After evaluating,

“Y axis” generated the worst test result, So the measurement will follow this same test configuration.

2.3 Test Setup Diagram



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RF cable	No	10m
3	RJ-45 cable	No	10m



2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 1 dB and a 20dB attenuator.

Example:

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss (dB)} + \text{attenuator factor (dB)} \\ &= 1 + 20 = 21 \text{ (dB)}\end{aligned}$$

For transmission duty cycle < 98% and setting sweep trigger to free run:

When the EUT cannot be configured to transmit at full-power on a continuous basis (i.e., duty cycle < 98%) and the instrumentation cannot be configured to measure only during active full-power transmissions, then set sweep trigger to free run and add $10 \log (1/\text{duty cycle})$ to the measured power level if the EUT duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$).

Example:

Add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

3 Test Result

3.1 Conducted Output Power

3.1.1 Description of the Conducted Output Power measurement

The EUT shall be set at maximum power through commands provided by manufacturer. The measured power in the radio frequency at the transmitter output terminals shall be reported.

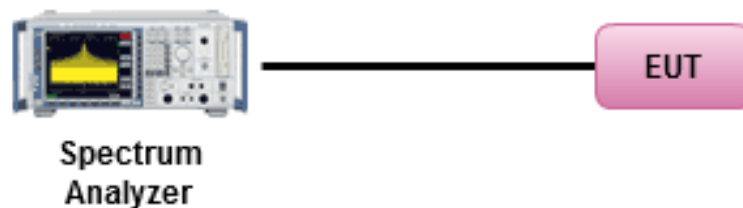
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. Connect the transmitter output port of EUT to the spectrum analyzer.
2. Set EUT to transmit at maximum output power.
3. Select lowest, middle, and highest channels for each modulation.
4. Measure the maximum power at RF output terminals .

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Refer as Appendix A

3.2 Maximum Effective Isotropic Radiated Power (EIRP)

3.2.1 Description of the Maximum Effective Isotropic Radiated Power measurement

The EUT shall be set at maximum power through commands provided by manufacturer, and the the EIRP limit shall apply to any 10 MHz portion of the bandwidth. The EIRP of category A CBSD shall be limited to 30dBm/10MHz, and the EIRP of category B CBSD shall be limited to 47dBm/10MHz. According to FCC KDB 940660 D01 v02

Power Approach, the EIRP can be determined from conducted output power.

$EIRP = P_T + G_T - L_C$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

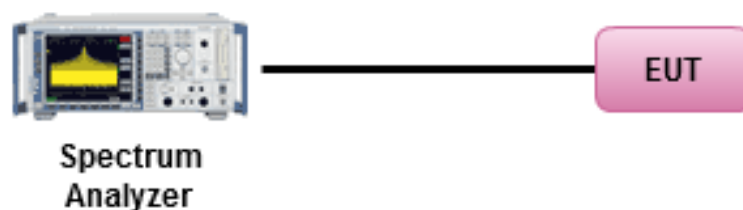
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows Section 5.2 of ANSI C63.26-2015.
2. Connect the transmitter output port of EUT to the spectrum analyzer.
3. Set EUT to transmit at maximum output power.
4. Select lowest, middle, and highest channels for each modulation.
5. Measure the maximum power in any 10 MHz portion of the bandwidth at RF output terminals.
6. Determining EIRP by conducted RF output power plus transmitting antenna gain.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Effective Isotropic Radiated Power

Refer as Appendix B

3.3 Maximum Power Spectral Density (PSD)

3.3.1 Description of the Maximum Power Spectral Density Measurement

The maximum power spectral density measurements, where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. To perform this measurement, the EUT must be configured to transmit continuously at maximum power. The PSD of category A CBSD shall be limited to 20dBm/MHz, and the EIRP of category B CBSD shall be limited to 37dBm/MHz.

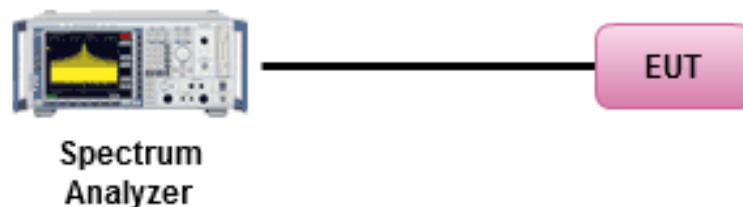
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Section 5.2 of ANSI C63.26-2015.
2. Connect the transmitter output port of EUT to the spectrum analyzer.
3. Set EUT to transmit at maximum output power.
4. Select lowest, middle, and highest channels for each modulation.
5. Measure the maximum PSD at RF output terminals .

3.3.4 Test Setup



3.3.5 Test Result of Maximum Power spectral density

Refer as Appendix C

3.4 Reception limits

3.4.1 Description of the Reception limits Measurement

Priority Access Licensees must accept adjacent channel and in-band blocking interference (3550 and 3700 MHz) up to a power spectral density level not to exceed -40 dBm at receive antenna ports with greater than 99% probability when integrated over a 10 megahertz reference bandwidth.

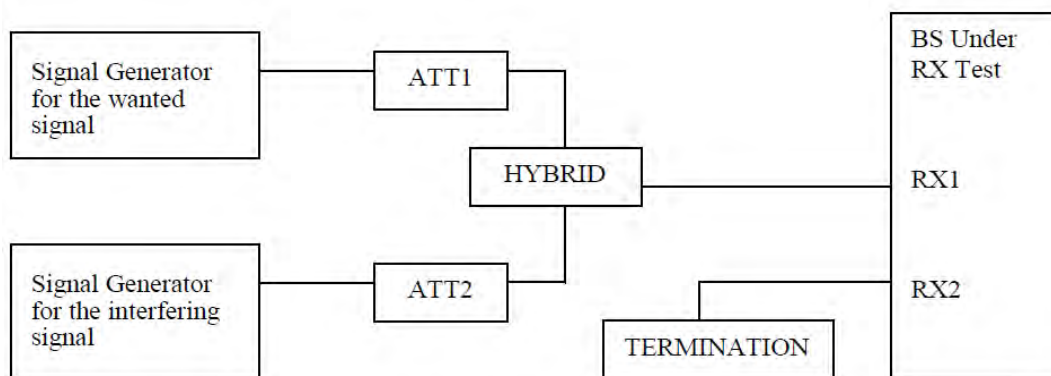
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. Refer to the figure in 3.4.4 for connecting EUT and signal generator.
2. Generate the wanted signal and adjust the input level to specified (ex. -86.5 dBm) power level.
3. Select lowest, middle, and highest channels for each modulation.
4. For adjacent channel interference, Set-up the interfering signals at the adjacent channel frequency and adjust the interfering signal level to -40 dBm at receiver antenna ports.
5. For in-band blocking interference, Set-up the interfering signal in the range from 3550 MHz to 3700 MHz and adjust the interfering signal level to -40 dBm at receiver antenna ports.
6. Measure and check the throughput of EUT greater than 99% probability.

3.4.4 Test Setup



3.4.5 Test Result of Reception limits

Refer as Appendix D

3.5 Peak-to-Average Power Ratio (PAPR)

3.5.1 Description of the Peak-to-Average Power Ratio Measurement

The peak-to-average power ratio of the transmission may not exceed 13 dB.

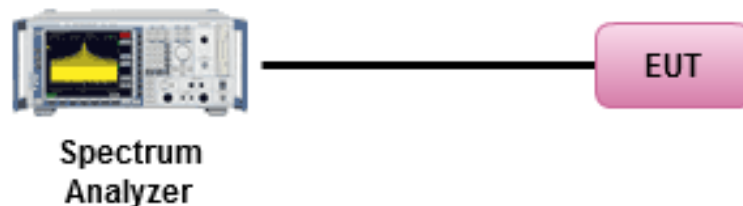
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows Section 5.2.6 of ANSI C63.26-2015.
2. Connect the transmitter output port of EUT to the spectrum analyzer.
3. Set EUT to transmit at maximum output power.
4. Select lowest, middle, and highest channels for each modulation.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

3.5.4 Test Setup



3.5.5 Test Result of Peak-to-Average Ratio

Refer as Appendix E

3.6 99% Occupied Bandwidth (OBW) and 26dB Bandwidth

3.6.1 Description of the 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

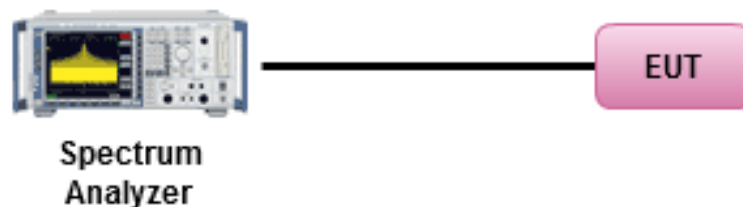
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. Connect the transmitter output port of EUT to the spectrum analyzer.
2. Set EUT to transmit at maximum output power.
3. Select lowest, middle, and highest channels for each modulation.
4. The setting of spectrum analyzer follows the FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
5. Record the result of 99% occupied bandwidth and the 26dB bandwidth.

3.6.4 Test Setup



3.6.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Refer as Appendix F

3.7 3.5 GHz Emissions and Interference Limits

3.7.1 Description of the 3.5 GHz Emissions and Interference Limits Measurement

Confirm that the device satisfies the emission limits specified in Section 96.41(e) for all declared channel sizes, at the lowest and highest edges of the band, and in the middle of the band. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic. The limits for emission outside the fundamental are as follows.

- Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz
- Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz
- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

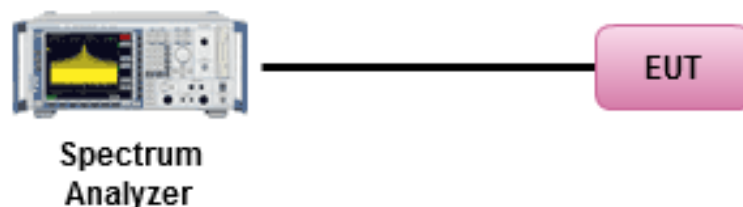
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

1. Connect the transmitter output port of EUT to the spectrum analyzer.
2. Set EUT to transmit at maximum output power.
3. Select lowest, middle, and highest channels for each modulation.
4. The setting of spectrum analyzer follows FCC KDB 940660 D01 v02 Section 6.0.
5. Note that unwanted emissions for CBSDs are relative to the authorized channel

3.7.4 Test Setup



3.7.5 Test Result (Plots) of Conducted Band Edge

Refer as Appendix G



3.8 Field Strength of Spurious Radiation

3.8.1 Description of the Field Strength of Spurious Radiated Measurement

Confirm that the radiated emission satisfies the limits specified in Section 96.41(e) for all declared channel sizes, at the lowest and highest edges of the band, and in the middle of the band. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic. The limits for emission outside the fundamental are as follows.

- Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz (55.2 dBuV/m at 3m)
- Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz (82.2 dBuV/m at 3m)
- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz (55.2 dBuV/m at 3m)

3.8.2 Measuring Instruments

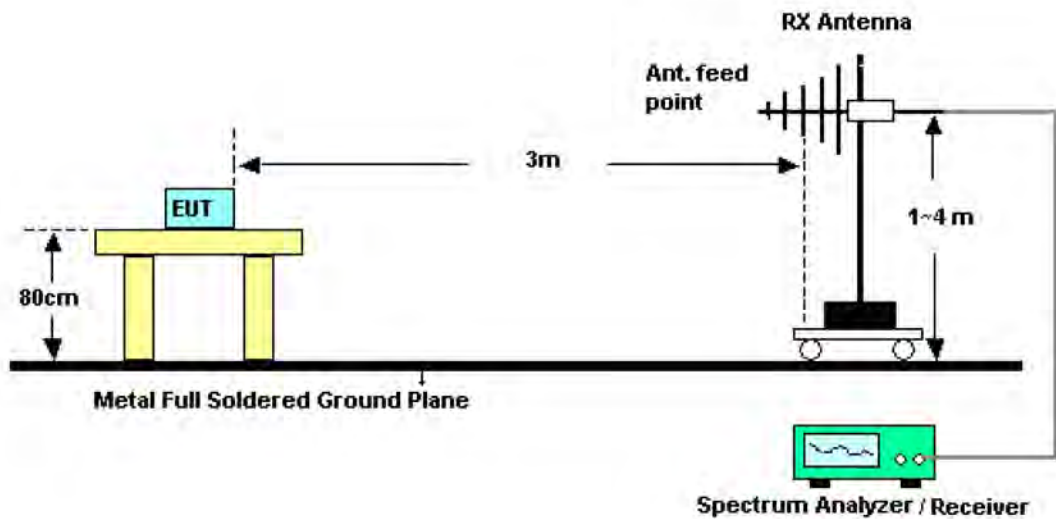
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

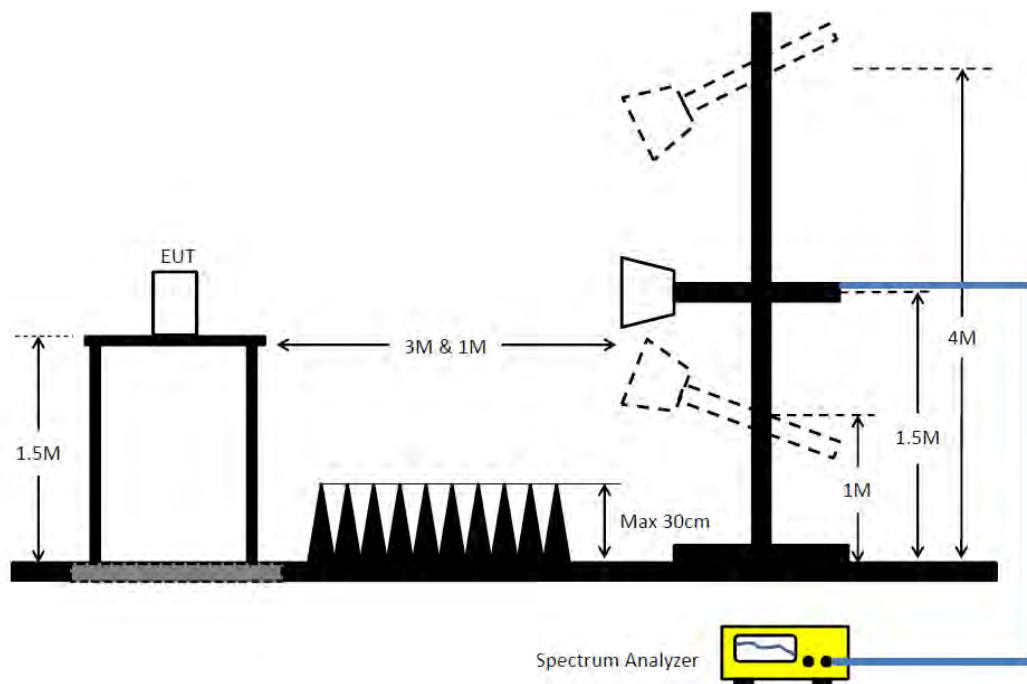
1. The testing follows Section 5.7 of ANSI C63.26-2015.
2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
12. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.8.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.8.5 Test Result of Field Strength of Spurious Radiated

Refer as Appendix H

3.9 Frequency Stability for Temperature & Voltage

3.9.1 Description of the Frequency Stability for Temperature & Voltage Measurement

The frequency stability of the transmitter shall be measured while varying the ambient temperatures and supply voltages over the ranges specified in Section 2.1055. And ensure that the fundamental emission stays within the authorized frequency block.

3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

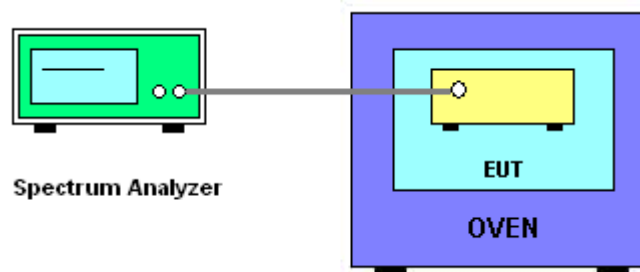
3.9.3 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0
2. The EUT was set up in the thermal chamber and connected to the spectrum analyzer.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in -30°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
5. Frequency measurements shall be made at intervals of not more than 10° centigrade through the range.

3.9.4 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected to the spectrum analyzer.
3. The power supply voltage to the EUT was varied from 85 to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

3.9.5 Test Setup



3.9.6 Test Result of Temperature and Voltage Variation

Refer as Appendix I



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
Temp. and Humidity Chamber	Gaint Force	GTH-408-40-CP-AR	MAA1410-011	-40~100 degree	Sep. 14, 2018	Sep. 13, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Cable	Marvelous Microwave	n/a	Cable-REF-1	9k-1GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 40 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410002	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)
MW Analog Signal Generator	Keysight	N5183A	MY50142965	100kHz~20GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Vector Signal Generator	Keysight	N5182B	MY53052408	9kHz~6GHz	Jan. 04, 2019	Jan. 03, 2020	Conducted (TH01-CB)

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



5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%

<Single-carrier> Summary

Mode	Power (dBm)	Power (W)
Band 48	-	-
LTE_10MHz_QPSK_2TX	24.37	0.274
LTE_10MHz_16QAM_2TX	24.43	0.277
LTE_10MHz_64QAM_2TX	24.42	0.277
LTE_20MHz_QPSK_2TX	26.13	0.410
LTE_20MHz_16QAM_2TX	26.03	0.401
LTE_20MHz_64QAM_2TX	26.09	0.406

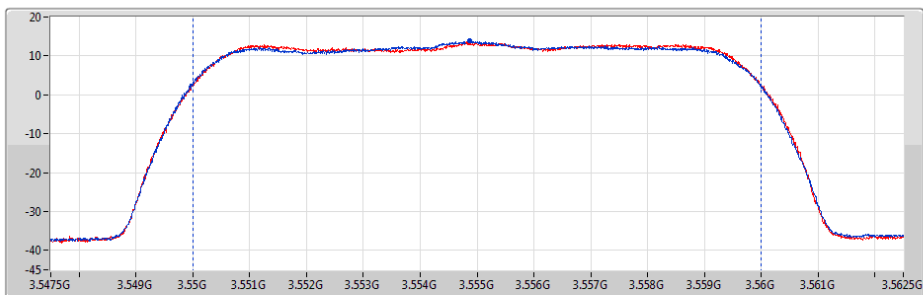
Result

Mode	Setting	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Power (dBm)	Power (W)
LTE_10MHz_QPSK_2TX		-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.28	21.43	24.37	0.274
3625MHz	22	Pass	2.10	21.26	21.09	24.19	0.262
3695MHz	22	Pass	2.10	21.13	21.37	24.26	0.267
LTE_10MHz_16QAM_2TX		-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.14	21.16	24.16	0.261
3625MHz	22	Pass	2.10	21.10	21.02	24.07	0.255
3695MHz	22	Pass	2.10	21.42	21.41	24.43	0.277
LTE_10MHz_64QAM_2TX		-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.38	21.44	24.42	0.277
3625MHz	22	Pass	2.10	21.08	20.95	24.03	0.253
3695MHz	22	Pass	2.10	21.47	21.29	24.39	0.275
LTE_20MHz_QPSK_2TX		-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.69	23.49	26.12	0.409
3625MHz	23.5	Pass	2.10	22.53	23.64	26.13	0.410
3690MHz	23.5	Pass	2.10	22.84	23.23	26.05	0.403
LTE_20MHz_16QAM_2TX		-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.61	22.97	25.80	0.380
3625MHz	23.5	Pass	2.10	22.72	23.11	25.93	0.392
3690MHz	23.5	Pass	2.10	22.84	23.19	26.03	0.401
LTE_20MHz_64QAM_2TX		-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.58	23.07	25.84	0.384
3625MHz	23.5	Pass	2.10	22.56	23.03	25.81	0.381
3690MHz	23.5	Pass	2.10	22.93	23.22	26.09	0.406

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

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

PowerAV



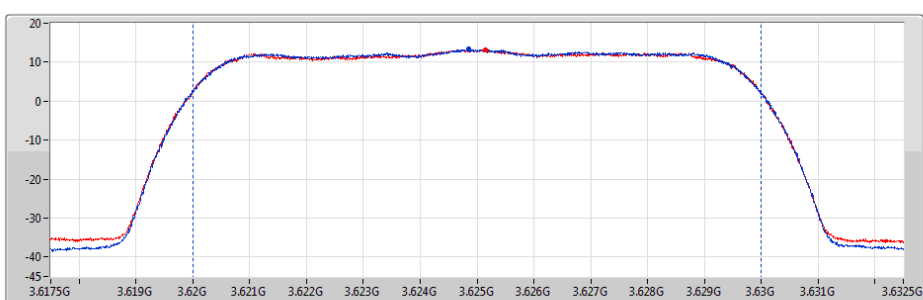
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.28	3.555G	15M	1M	3M	20m	RMS	10M	1
21.43	3.555G	15M	1M	3M	20m	RMS	10M	2
Sum(dBm)								
24.37								

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

PowerAV



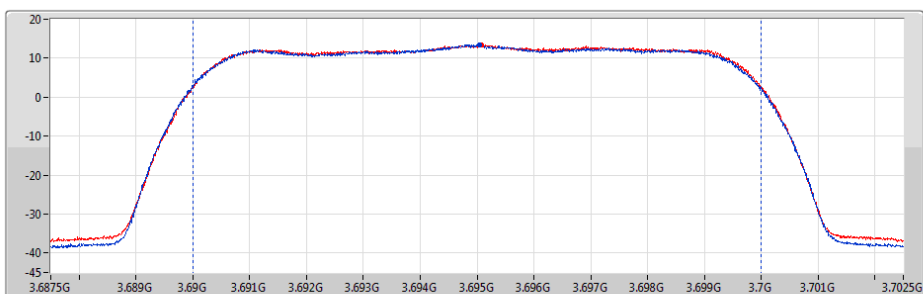
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.26	3.625G	15M	1M	3M	20m	RMS	10M	1
21.09	3.625G	15M	1M	3M	20m	RMS	10M	2
Sum(dBm)								
24.19								

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

PowerAV



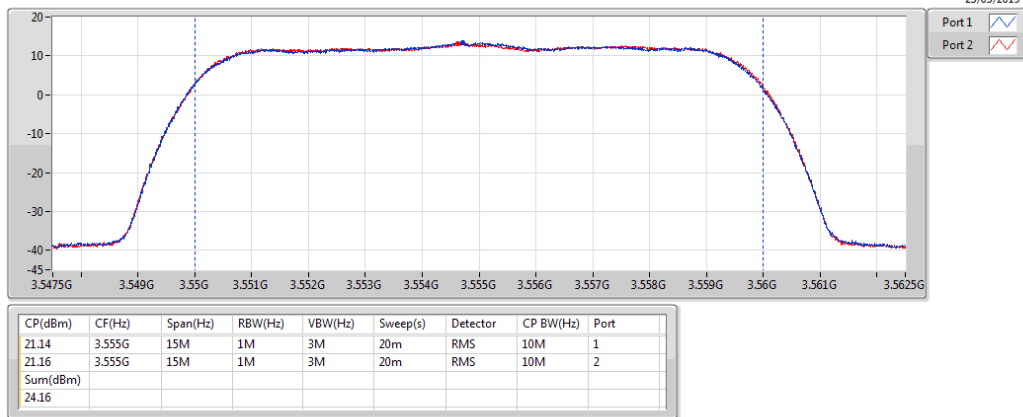
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.13	3.695G	15M	1M	3M	20m	RMS	10M	1
21.37	3.695G	15M	1M	3M	20m	RMS	10M	2
Sum(dBm)								
24.26								

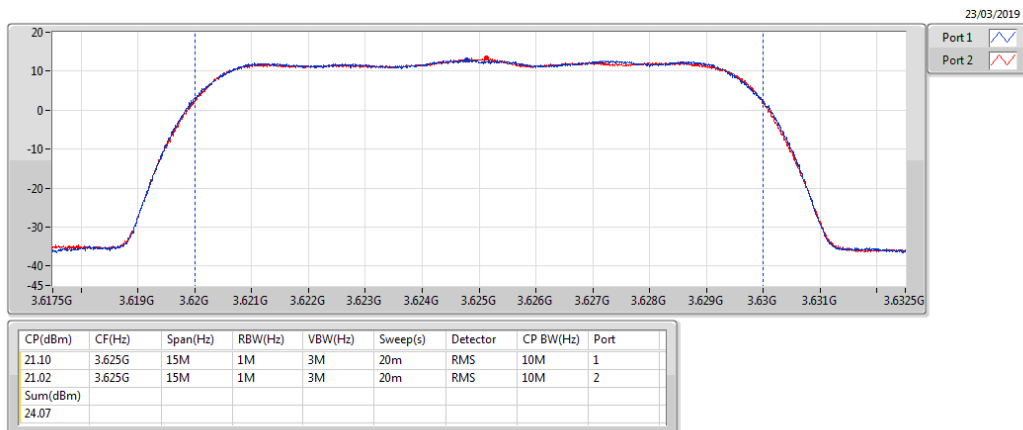
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PowerAV



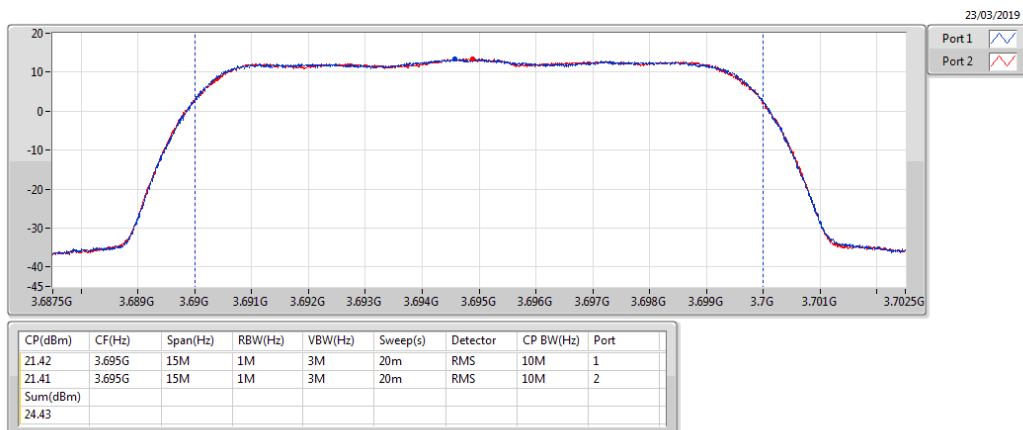
Band 48_LTE_10MHz_Nss1,16QAM_2TX 3625MHz_16QAM_RB 50,#RB 0

PowerAV



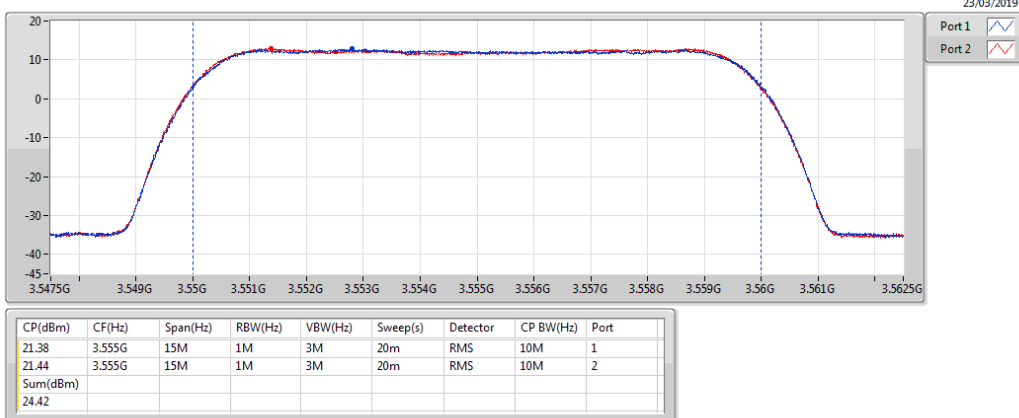
Band 48_LTE_10MHz_Nss1,16QAM_2TX 3695MHz_16QAM_RB 50,#RB 0

PowerAV



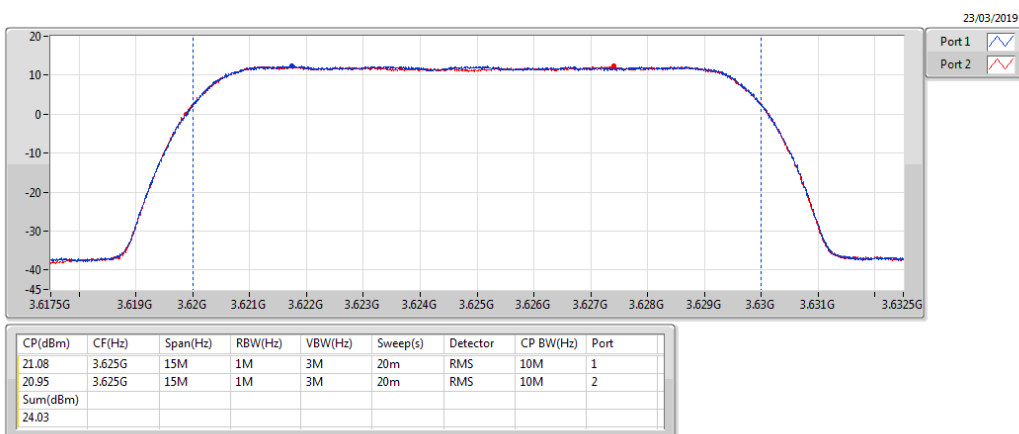
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3555MHz_64QAM_RB 50,#RB 0

PowerAV



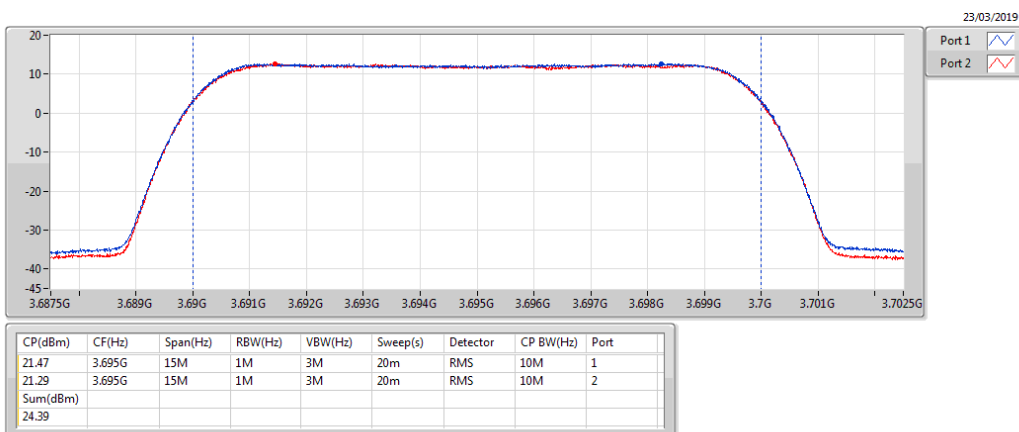
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3625MHz_64QAM_RB 50,#RB 0

PowerAV



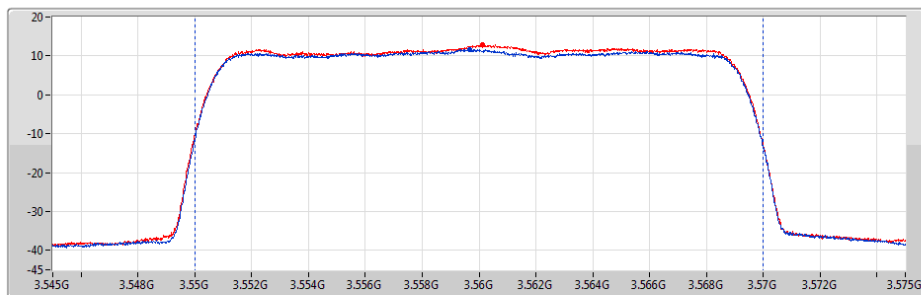
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3695MHz_64QAM_RB 50,#RB 0

PowerAV



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

PowerAV



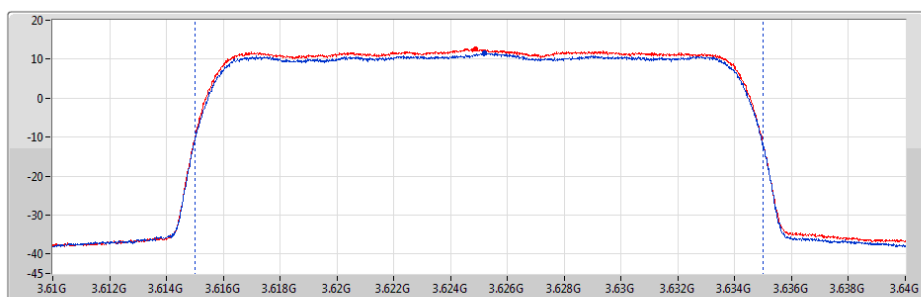
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.69	3.56G	30M	1M	3M	20m	RMS	20M	1
23.49	3.56G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.12								

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

PowerAV



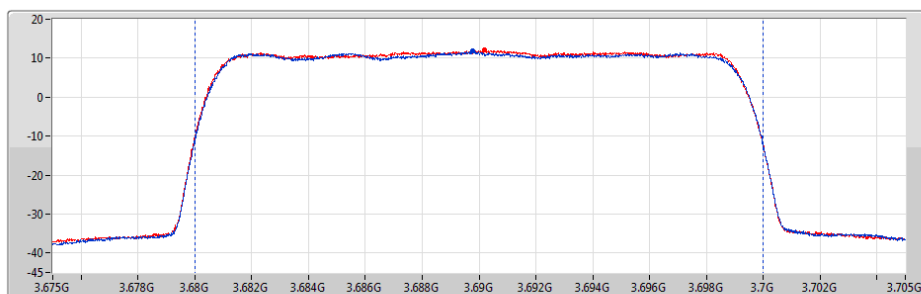
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.53	3.625G	30M	1M	3M	20m	RMS	20M	1
23.64	3.625G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.13								

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

PowerAV



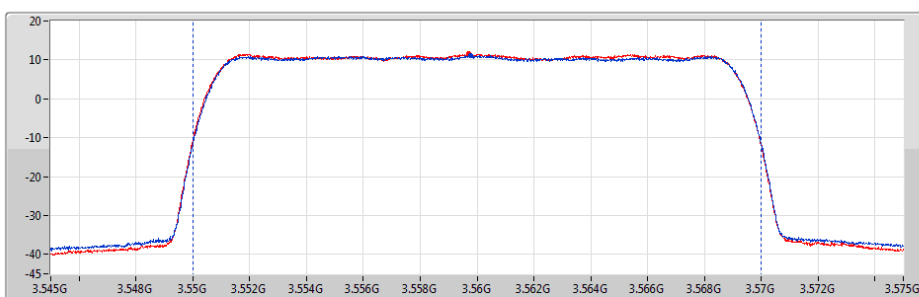
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.84	3.69G	30M	1M	3M	20m	RMS	20M	1
23.23	3.69G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.05								

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

PowerAV



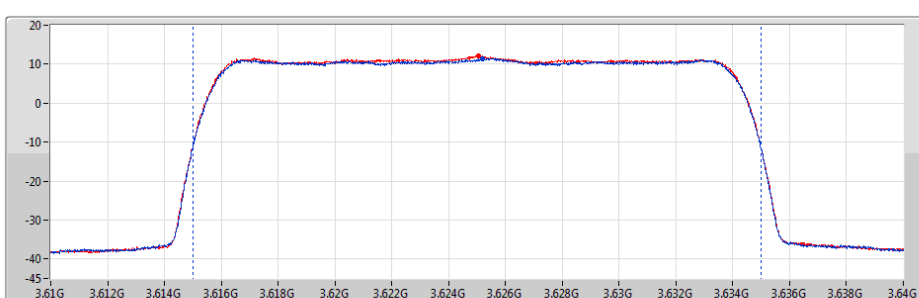
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.61	3.56G	30M	1M	3M	20m	RMS	20M	1
22.97	3.56G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.80								

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

PowerAV



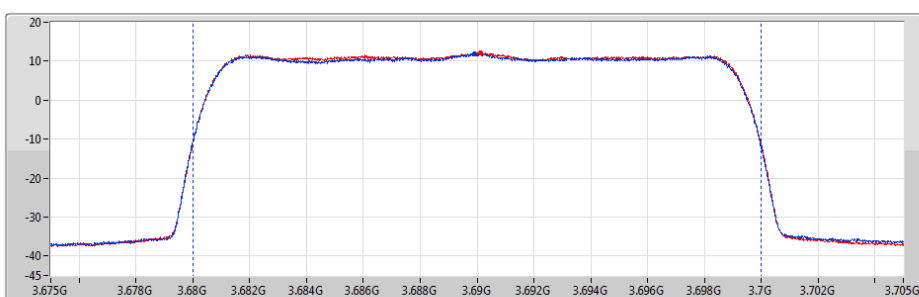
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.72	3.625G	30M	1M	3M	20m	RMS	20M	1
23.11	3.625G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.93								

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

PowerAV



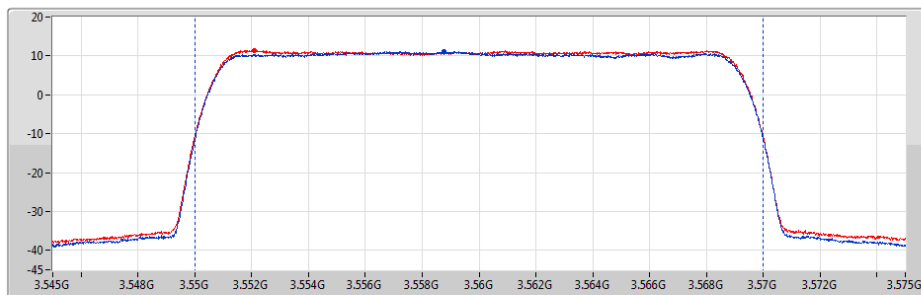
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.84	3.69G	30M	1M	3M	20m	RMS	20M	1
23.19	3.69G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.03								

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

PowerAV



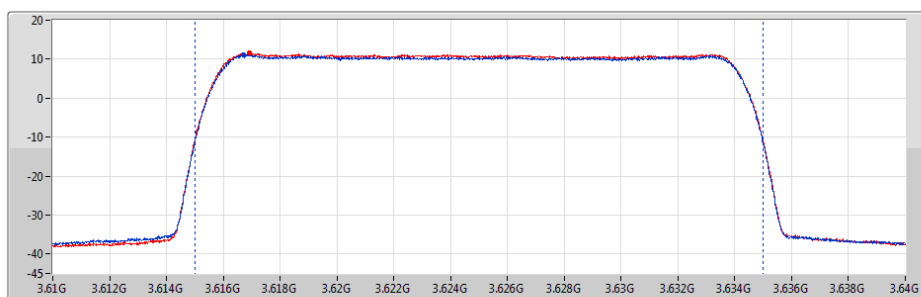
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.58	3.56G	30M	1M	3M	20m	RMS	20M	1
23.07	3.56G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.84								

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

PowerAV



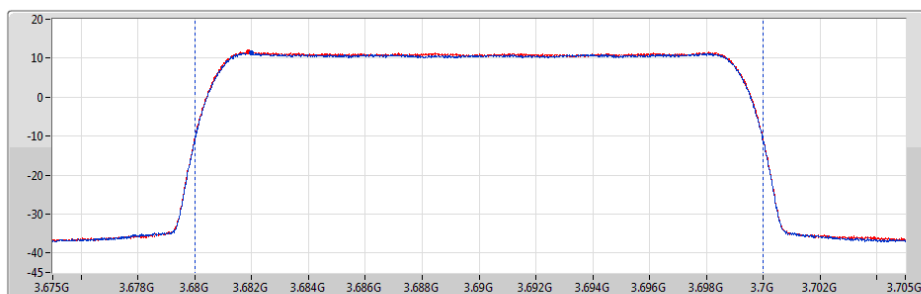
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.56	3.625G	30M	1M	3M	20m	RMS	20M	1
23.03	3.625G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.81								

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

PowerAV



23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.93	3.69G	30M	1M	3M	20m	RMS	20M	1
23.22	3.69G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.09								

<Multi-carrier and/or CA> Summary

Mode	Max Carrier Power (dBm)	Max Carrier Power (W)
Band 48	-	-
LTE_20MHz+20MHz_QPSK_4TX	26.89	0.488
LTE_20MHz+20MHz_16QAM_4TX	25.96	0.394
LTE_20MHz+20MHz_64QAM_4TX	25.59	0.362

Result

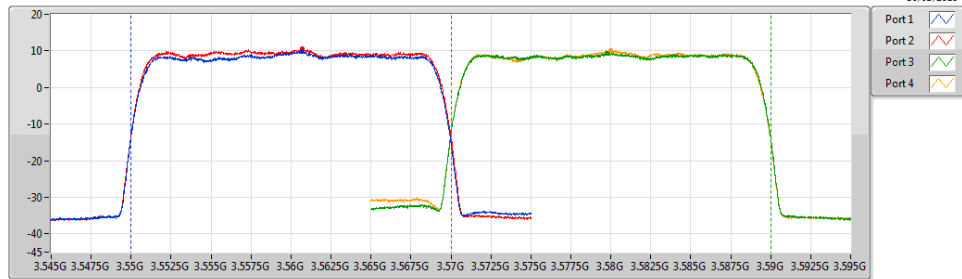
Mode	Setting	Result	DG (dBi)	1Carrier Port 1 (dBm)	1Carrier Port 2 (dBm)	2Carrier Port 3 (dBm)	2Carrier Port 4 (dBm)	Max Carrier Power (dBm)	Max Carrier Power (W)
Band 48_LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.59	21.45	20.73	20.94	24.05	0.254
P#3615MHz,#3635MHz	24	Pass	2.25	23.24	24.15	23.75	24.01	26.89	0.488
P#3670MHz,#3690MHz	22	Pass	2.25	21.23	21.94	21.31	21.18	24.61	0.289
P#3560MHz,#3690MHz	22	Pass	2.25	20.56	21.56	21.39	21.36	24.39	0.275
Band 48_LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.50	20.95	20.72	20.93	23.84	0.242
P#3615MHz,#3635MHz	24	Pass	2.25	22.56	22.85	22.86	23.03	25.96	0.394
P#3670MHz,#3690MHz	22	Pass	2.25	20.90	21.13	21.05	20.92	24.03	0.253
P#3560MHz,#3690MHz	22	Pass	2.25	20.44	21.01	21.33	21.34	24.35	0.272
Band 48_LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.54	20.95	20.60	20.91	23.77	0.238
P#3615MHz,#3635MHz	24	Pass	2.25	22.22	22.47	22.51	22.64	25.59	0.362
P#3670MHz,#3690MHz	22	Pass	2.25	21.15	21.27	21.32	21.25	24.3	0.269
P#3560MHz,#3690MHz	22	Pass	2.25	20.60	20.97	21.35	21.30	24.34	0.272

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

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

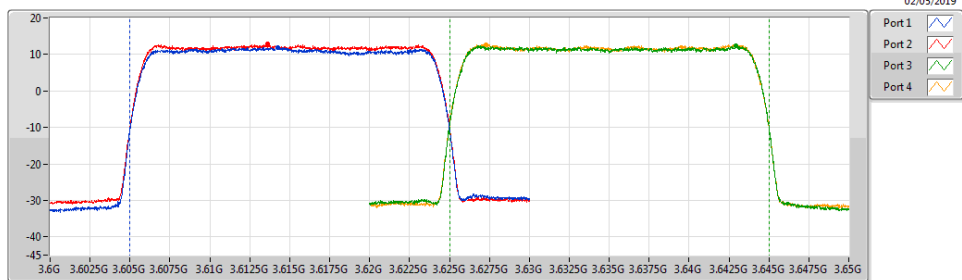


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.59	3.56G	30M	1M	3M	20m	RMS	20M	1
21.45	3.56G	30M	1M	3M	20m	RMS	20M	2
20.73	3.58G	30M	1M	3M	20m	RMS	20M	3
20.94	3.58G	30M	1M	3M	20m	RMS	20M	4
Sum(dBm)								
26.96								

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

P#3615MHz,#3635MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

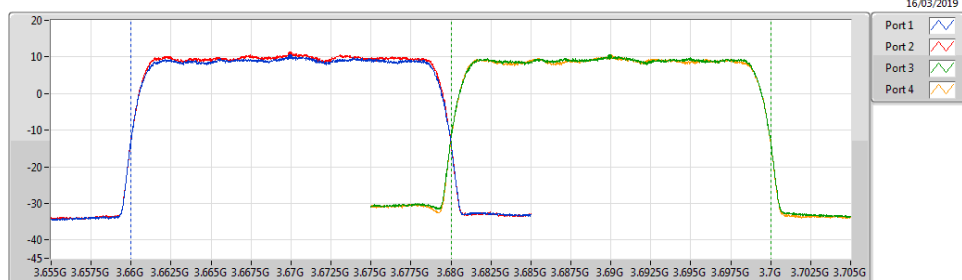


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
23.24	3.615G	30M	1M	3M	20m	RMS	20M	1
24.15	3.615G	30M	1M	3M	20m	RMS	20M	2
23.75	3.635G	30M	1M	3M	20m	RMS	20M	3
24.01	3.635G	30M	1M	3M	20m	RMS	20M	4
Sum(dBm)								
29.82								

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

P#3670MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

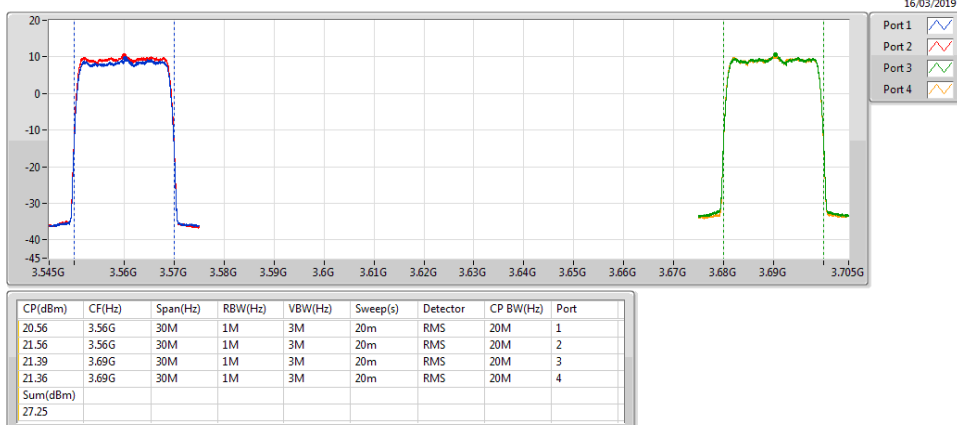


CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.23	3.67G	30M	1M	3M	20m	RMS	20M	1
21.94	3.67G	30M	1M	3M	20m	RMS	20M	2
21.31	3.69G	30M	1M	3M	20m	RMS	20M	3
21.18	3.69G	30M	1M	3M	20m	RMS	20M	4
Sum(dBm)								
27.45								

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

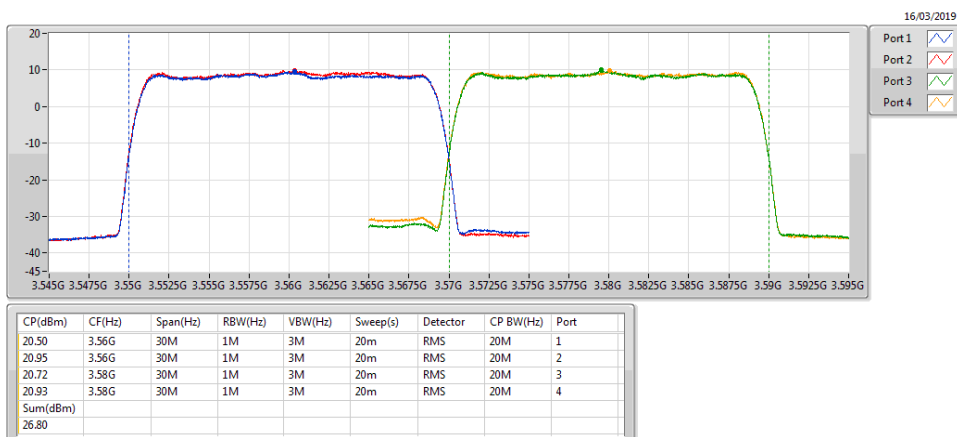
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PowerAV

P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

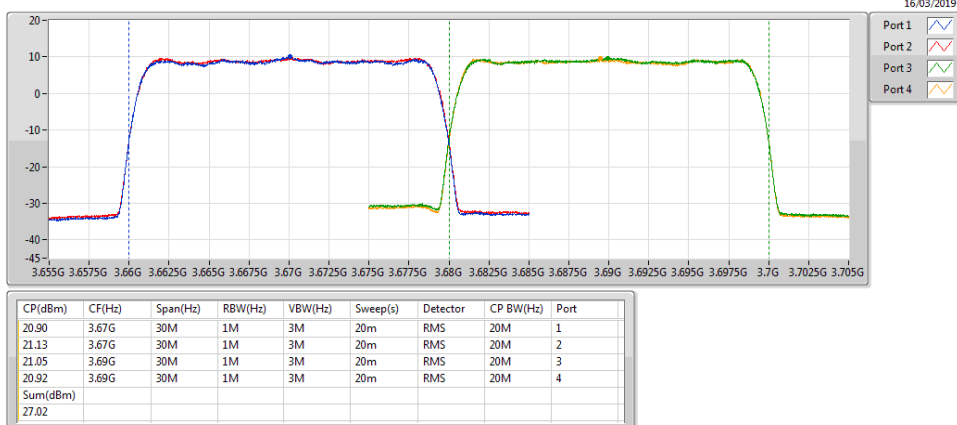
PowerAV

P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



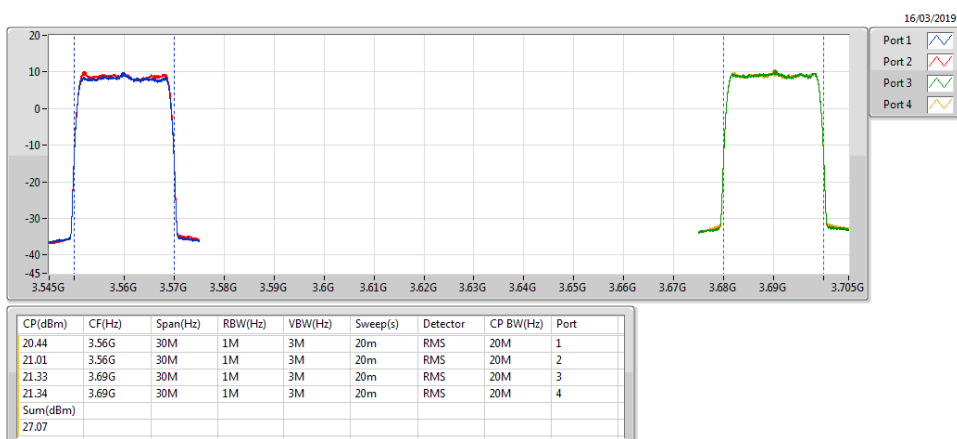
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
P#3670MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



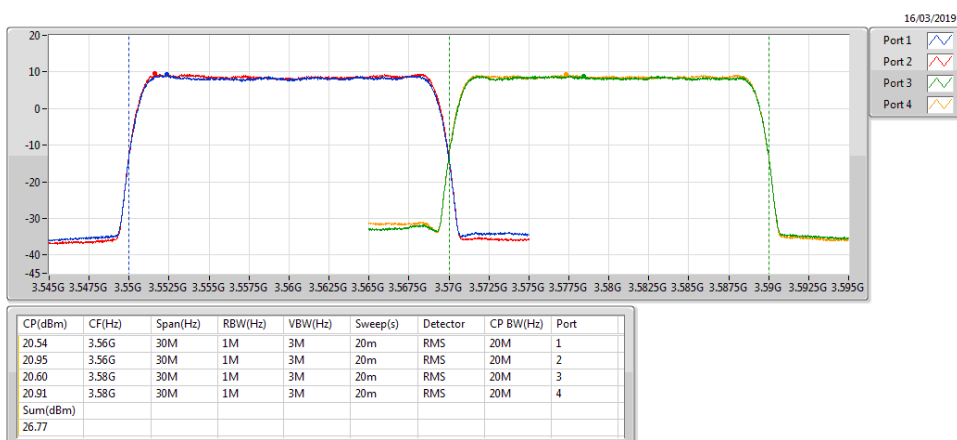
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



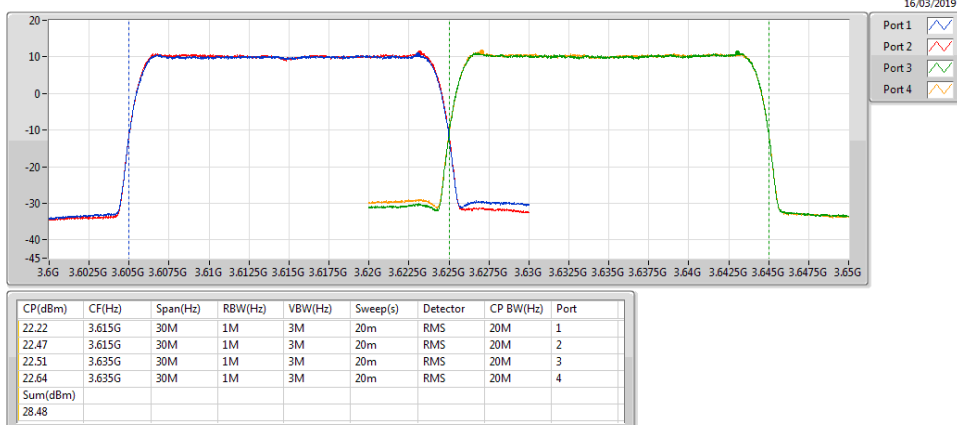
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3560MHz,#3580MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



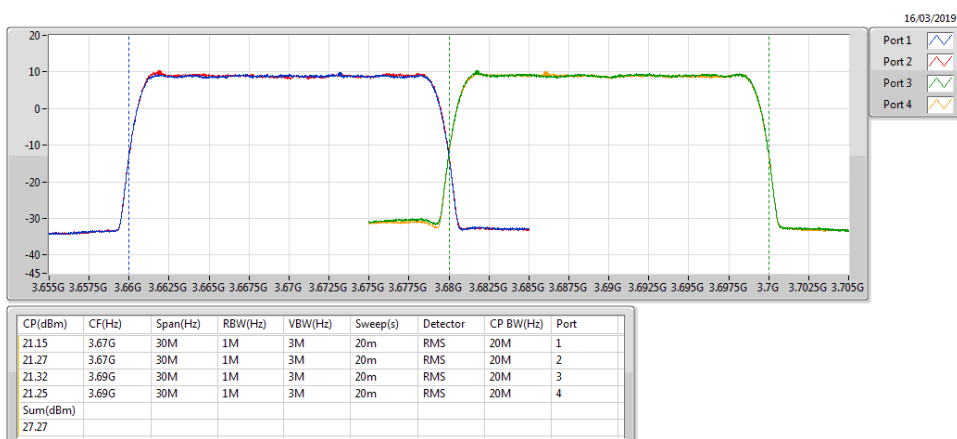
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



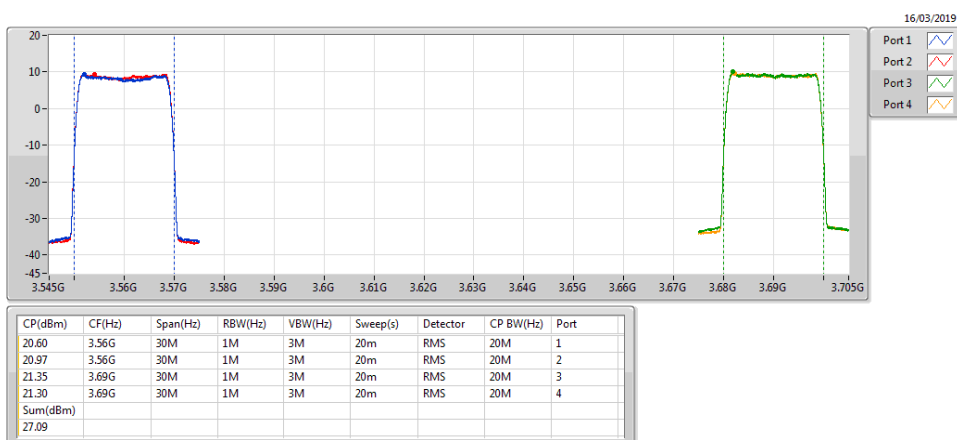
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



<Single-carrier> Summary

Mode	Power (dBm)	Power (W)	EIRP (dBm)	EIRP (W)
Band 48	-	-	-	-
LTE_10MHz_QPSK_2TX	24.37	0.274	26.47	0.444
LTE_10MHz_16QAM_2TX	24.43	0.277	26.53	0.450
LTE_10MHz_64QAM_2TX	24.42	0.277	26.52	0.449
LTE_20MHz_QPSK_2TX	26.13	0.410	28.23	0.665
LTE_20MHz_16QAM_2TX	26.03	0.401	28.13	0.650
LTE_20MHz_64QAM_2TX	26.09	0.406	28.19	0.659

Result

Mode	Setting	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Power (dBm)	Power (W)	EIRP (dBm)	EIRP (W)	EIRP Lim. (W)
LTE_10MHz_QPSK_2TX		-	-	-	-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.28	21.43	24.37	0.274	26.47	0.444	50.1
3625MHz	22	Pass	2.10	21.26	21.09	24.19	0.262	26.29	0.426	50.1
3695MHz	22	Pass	2.10	21.13	21.37	24.26	0.267	26.36	0.433	50.1
LTE_10MHz_16QAM_2TX		-	-	-	-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.14	21.16	24.16	0.261	26.26	0.423	50.1
3625MHz	22	Pass	2.10	21.10	21.02	24.07	0.255	26.17	0.414	50.1
3695MHz	22	Pass	2.10	21.42	21.41	24.43	0.277	26.53	0.450	50.1
LTE_10MHz_64QAM_2TX		-	-	-	-	-	-	-	-	-
3555MHz	22	Pass	2.10	21.38	21.44	24.42	0.277	26.52	0.449	50.1
3625MHz	22	Pass	2.10	21.08	20.95	24.03	0.253	26.13	0.410	50.1
3695MHz	22	Pass	2.10	21.47	21.29	24.39	0.275	26.49	0.446	50.1
LTE_20MHz_QPSK_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.69	23.49	26.12	0.409	28.22	0.664	Inf
3625MHz	23.5	Pass	2.10	22.53	23.64	26.13	0.410	28.23	0.665	Inf
3690MHz	23.5	Pass	2.10	22.84	23.23	26.05	0.403	28.15	0.653	Inf
LTE_20MHz_16QAM_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.61	22.97	25.80	0.380	27.90	0.617	Inf
3625MHz	23.5	Pass	2.10	22.72	23.11	25.93	0.392	28.03	0.635	Inf
3690MHz	23.5	Pass	2.10	22.84	23.19	26.03	0.401	28.13	0.650	Inf
LTE_20MHz_64QAM_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	22.58	23.07	25.84	0.384	27.94	0.622	Inf
3625MHz	23.5	Pass	2.10	22.56	23.03	25.81	0.381	27.91	0.618	Inf
3690MHz	23.5	Pass	2.10	22.93	23.22	26.09	0.406	28.19	0.659	Inf

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

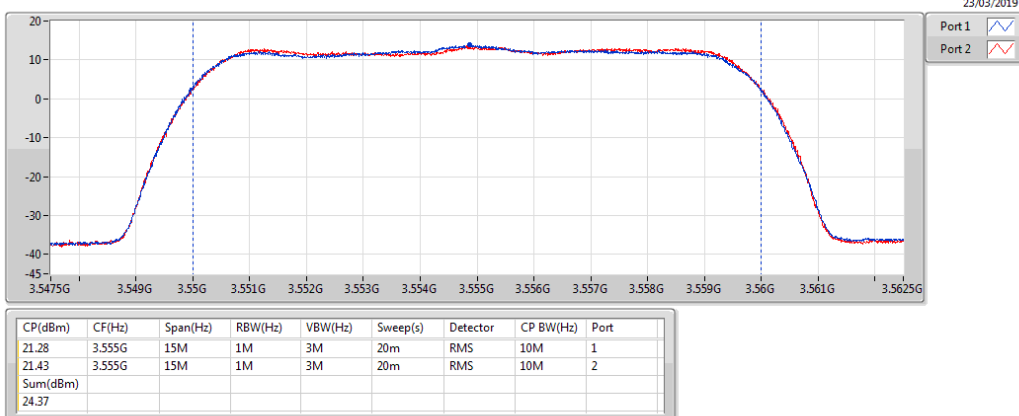
Note:

10MHz BW used dBm/10MHz measurement.

20MHz BW used dBm/20MHz measurement.

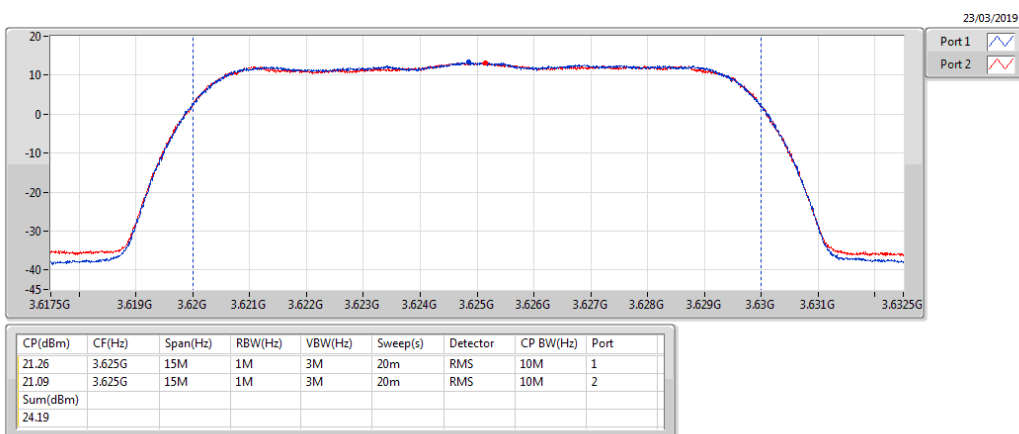
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3555MHz_QPSK_RB 50,#RB 0

PowerAV



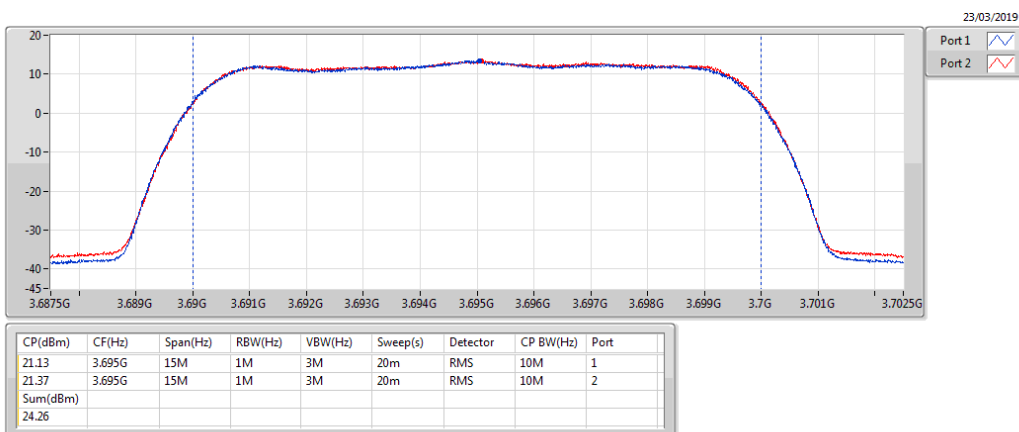
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 50,#RB 0

PowerAV



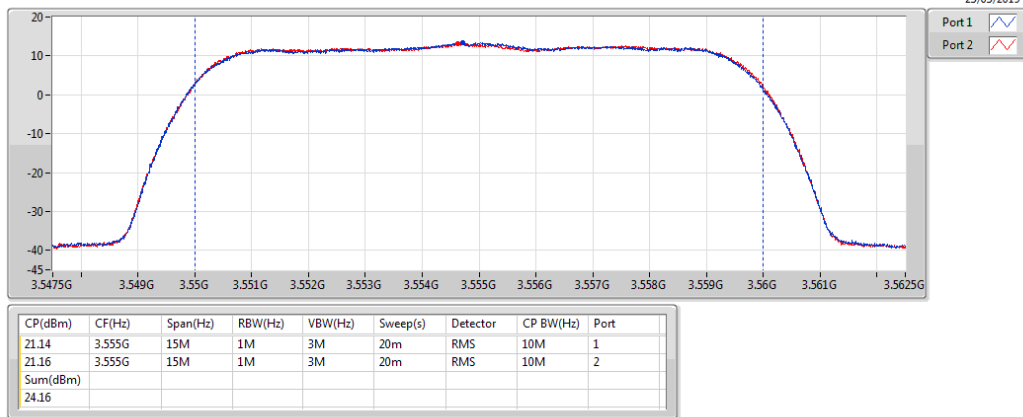
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3695MHz_QPSK_RB 50,#RB 0

PowerAV



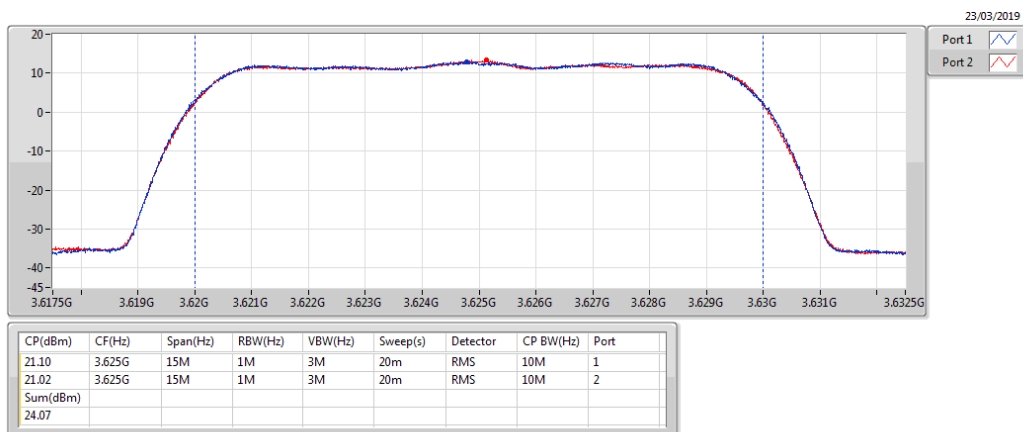
Band 48_LTE_10MHz_Nss1,16QAM_2TX 3555MHz_16QAM_RB 50,#RB 0

PowerAV



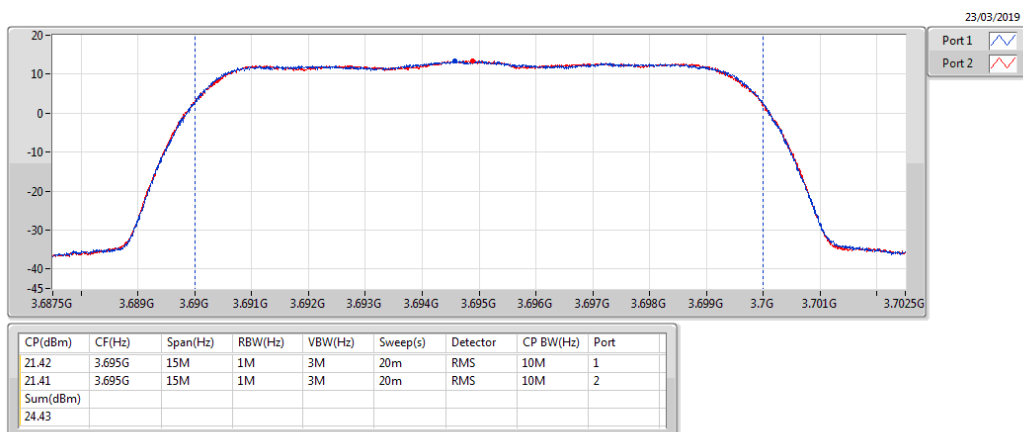
Band 48_LTE_10MHz_Nss1,16QAM_2TX 3625MHz_16QAM_RB 50,#RB 0

PowerAV



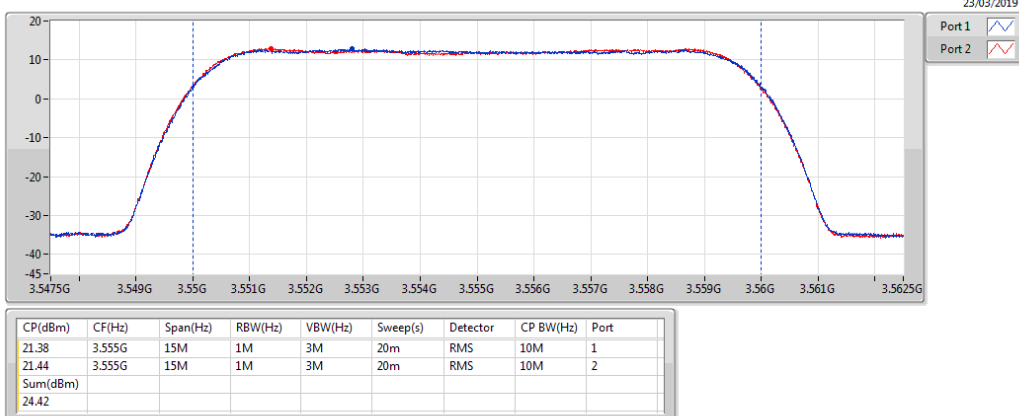
Band 48_LTE_10MHz_Nss1,16QAM_2TX 3695MHz_16QAM_RB 50,#RB 0

PowerAV



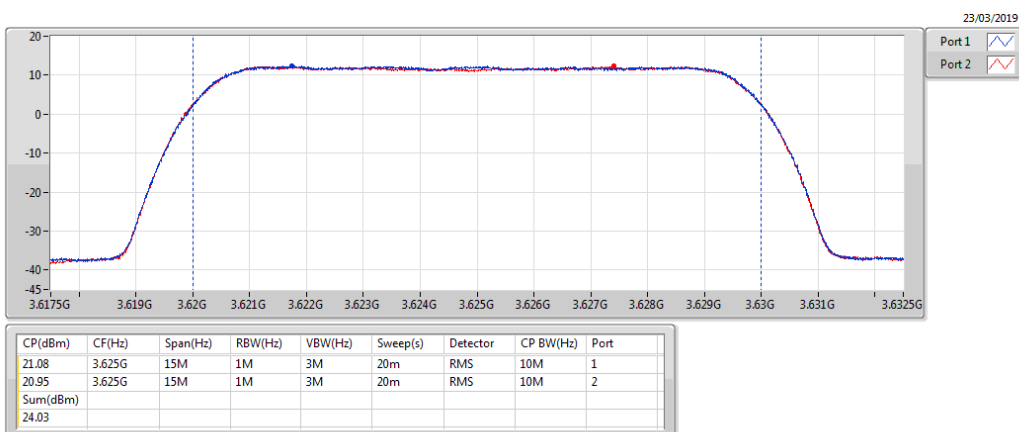
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3555MHz_64QAM_RB 50,#RB 0

PowerAV



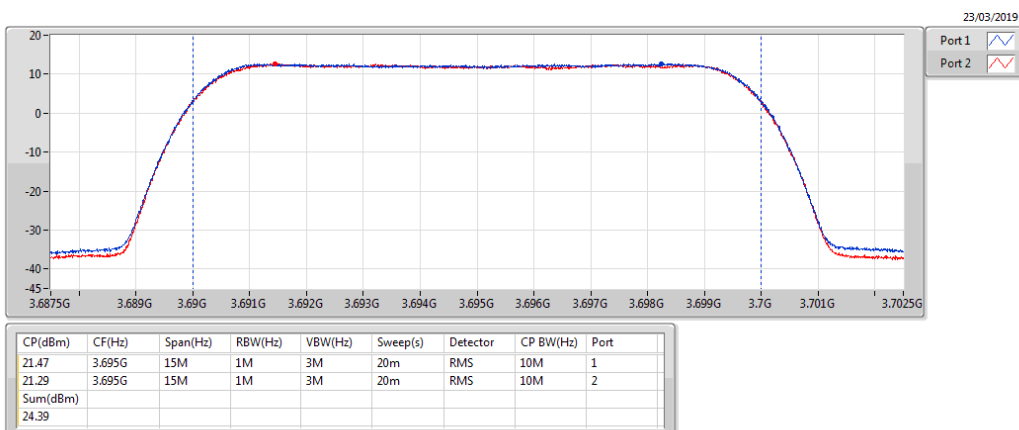
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3625MHz_64QAM_RB 50,#RB 0

PowerAV



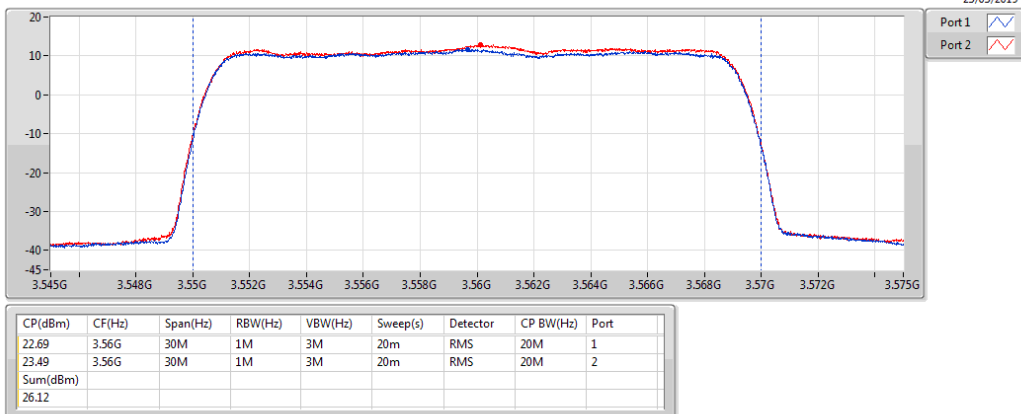
Band 48_LTE_10MHz_Nss1,64QAM_2TX 3695MHz_64QAM_RB 50,#RB 0

PowerAV



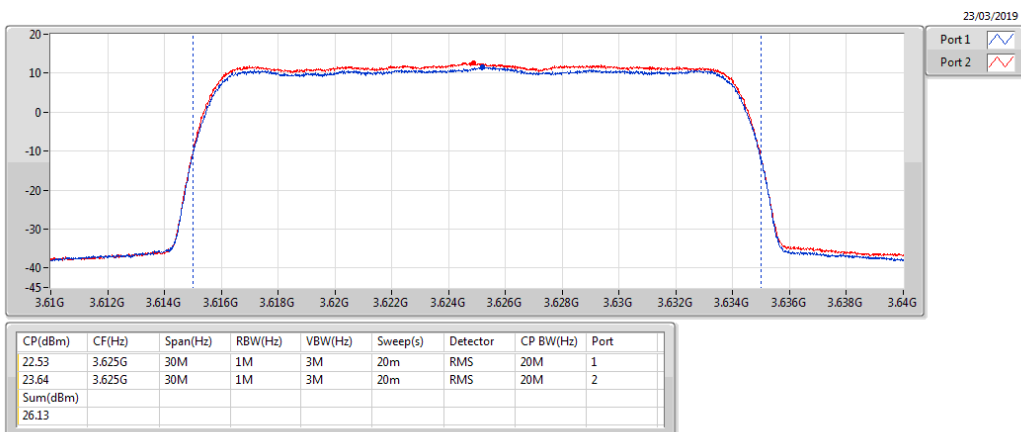
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3560MHz_QPSK_RB 100,#RB 0

PowerAV



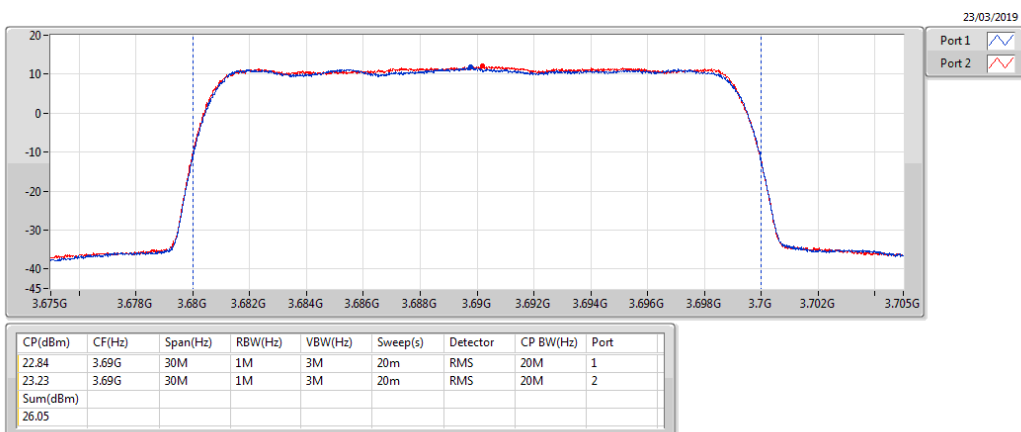
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3625MHz_QPSK_RB 100,#RB 0

PowerAV



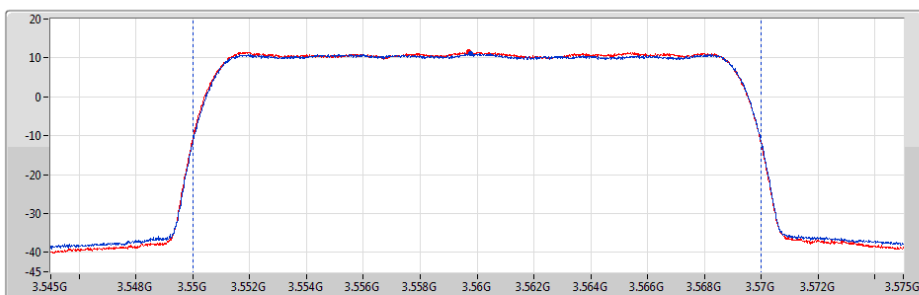
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3690MHz_QPSK_RB 100,#RB 0

PowerAV



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

PowerAV



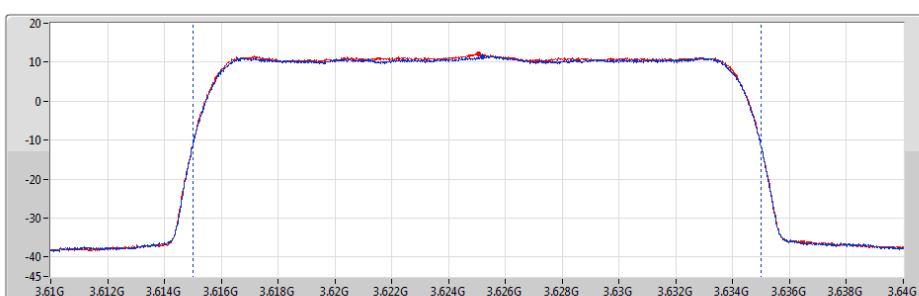
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.61	3.56G	30M	1M	3M	20m	RMS	20M	1
22.97	3.56G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.80								

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

PowerAV



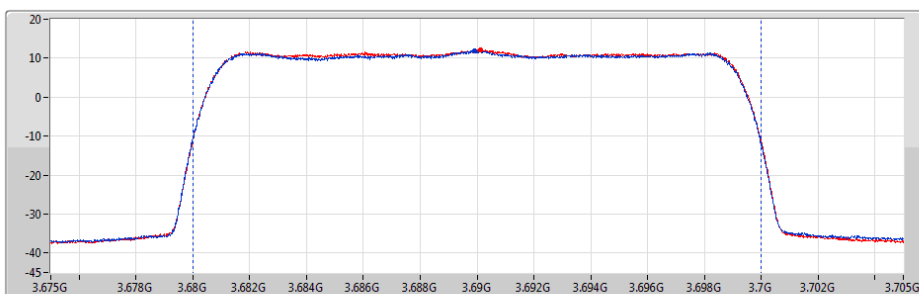
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.72	3.625G	30M	1M	3M	20m	RMS	20M	1
23.11	3.625G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
25.93								

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

PowerAV



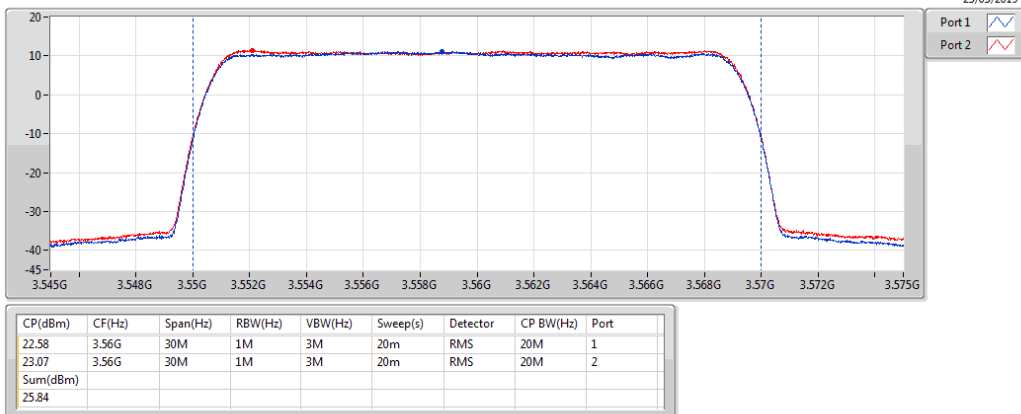
23/03/2019

Port 1
Port 2

CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
22.84	3.69G	30M	1M	3M	20m	RMS	20M	1
23.19	3.69G	30M	1M	3M	20m	RMS	20M	2
Sum(dBm)								
26.03								

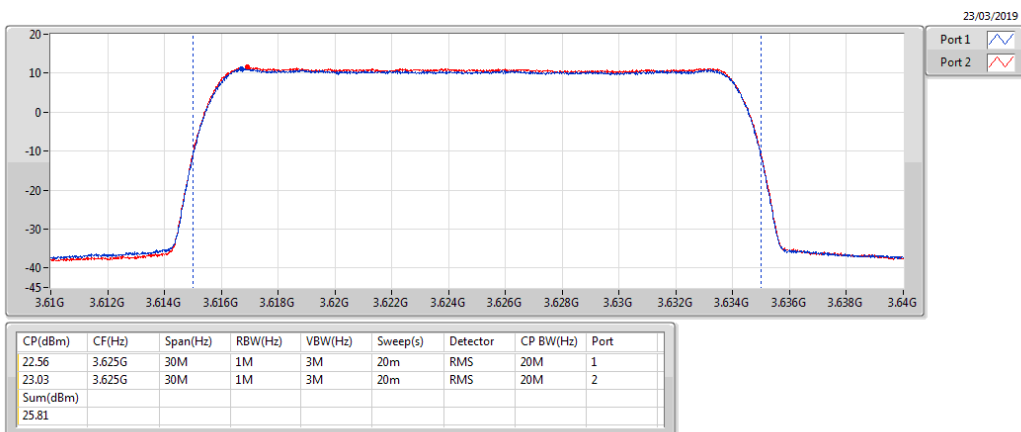
Band 48_LTE_20MHz_Nss1,64QAM_2TX 3560MHz_64QAM_RB 100,#RB 0

PowerAV



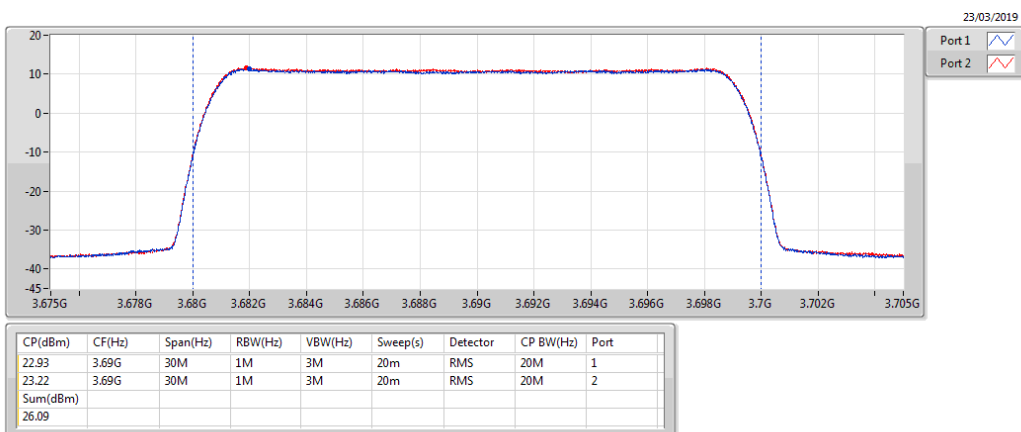
Band 48_LTE_20MHz_Nss1,64QAM_2TX 3625MHz_64QAM_RB 100,#RB 0

PowerAV



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

PowerAV



<Single-carrier> Summary

Mode	Power (dBm/10MHz)	Power (W)	EIRP (dBm/10MHz)	EIRP (W)
Band 48	-	-	-	-
LTE_20MHz_QPSK_2TX	23.91	0.246	26.01	0.399
LTE_20MHz_16QAM_2TX	23.77	0.238	25.87	0.386
LTE_20MHz_64QAM_2TX	23.52	0.225	25.62	0.365

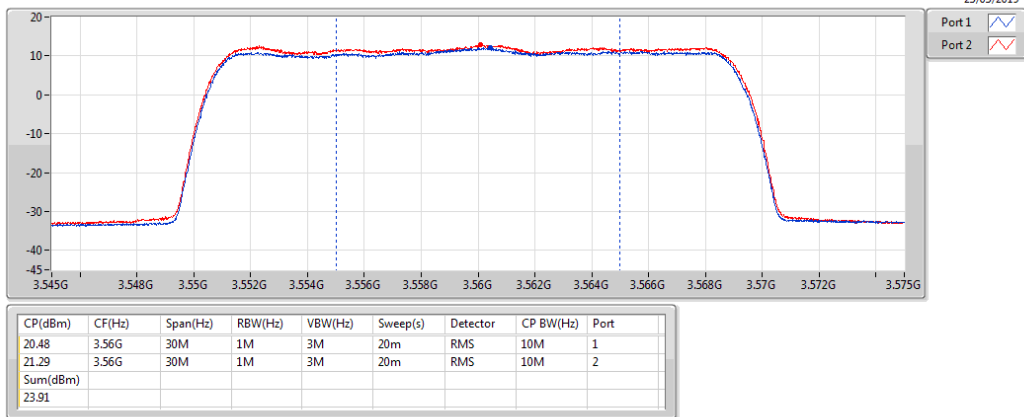
Result

Mode	Setting	Result	DG (dBi)	Port 1 (dBm/10MHz)	Port 2 (dBm/10MHz)	Power (dBm/10MHz)	Power (W)	EIRP (dBm/10MHz)	EIRP (W)	EIRP Lim. (W)
LTE_20MHz_QPSK_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	20.48	21.29	23.91	0.246	26.01	0.399	50.1
3625MHz	23.5	Pass	2.10	20.27	21.15	23.74	0.237	25.84	0.384	50.1
3690MHz	23.5	Pass	2.10	20.62	20.91	23.78	0.239	25.88	0.387	50.1
LTE_20MHz_16QAM_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	20.20	21.26	23.77	0.238	25.87	0.386	50.1
3625MHz	23.5	Pass	2.10	20.09	20.64	23.38	0.218	25.48	0.353	50.1
3690MHz	23.5	Pass	2.10	20.58	20.80	23.70	0.234	25.80	0.380	50.1
LTE_20MHz_64QAM_2TX		-	-	-	-	-	-	-	-	-
3560MHz	23.5	Pass	2.10	20.26	20.75	23.52	0.225	25.62	0.365	50.1
3625MHz	23.5	Pass	2.10	19.92	20.31	23.13	0.206	25.23	0.333	50.1
3690MHz	23.5	Pass	2.10	20.24	20.64	23.45	0.221	25.55	0.359	50.1

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

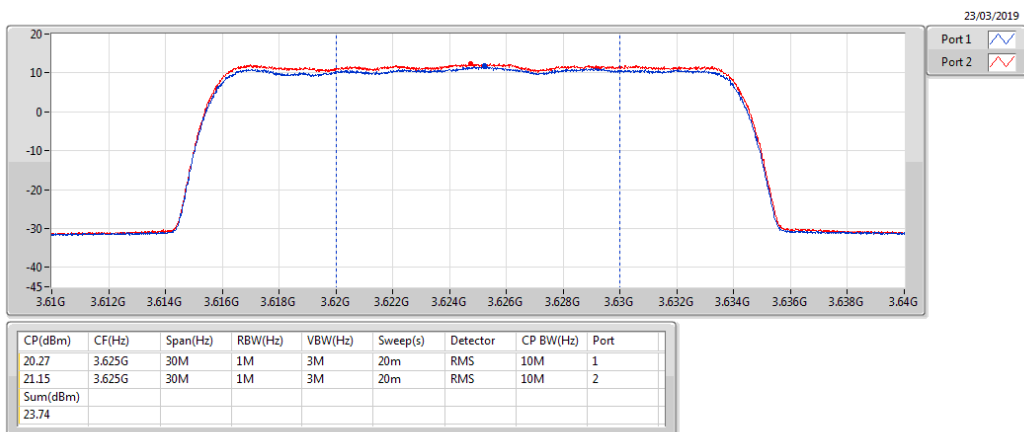
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3560MHz_QPSK_RB 100,#RB 0

PowerAV



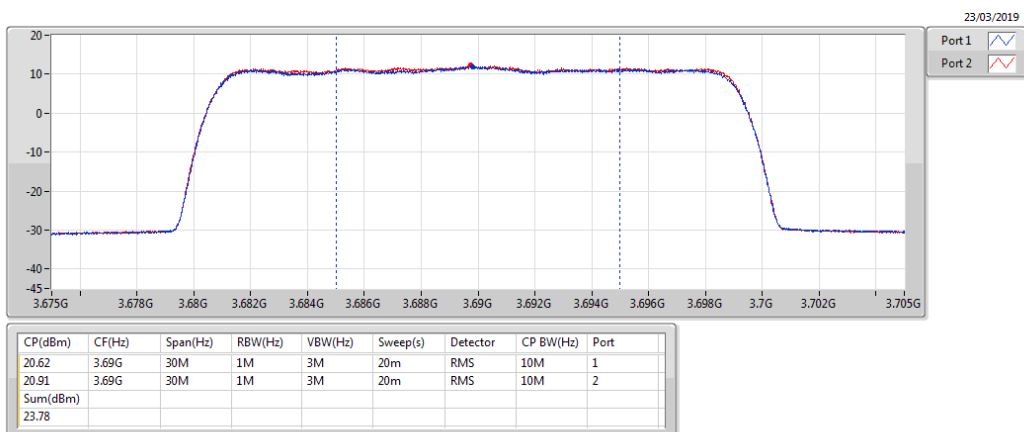
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3625MHz_QPSK_RB 100,#RB 0

PowerAV



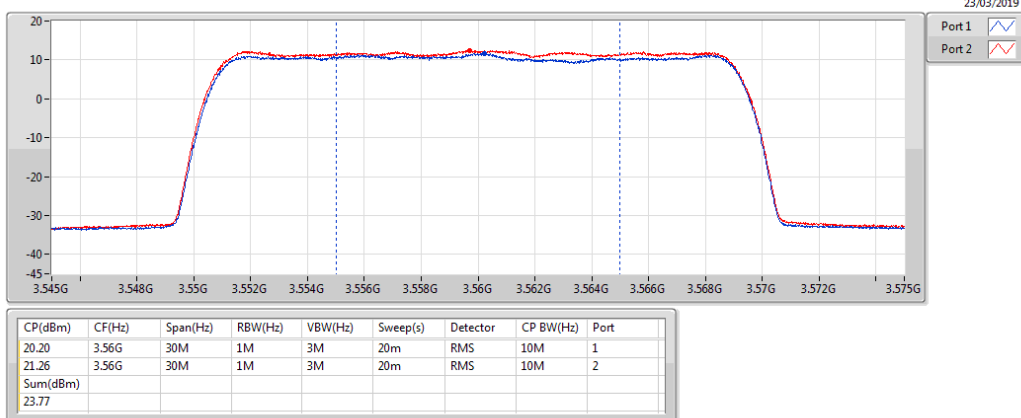
Band 48_LTE_20MHz_Nss1,QPSK_2TX 3690MHz_QPSK_RB 100,#RB 0

PowerAV



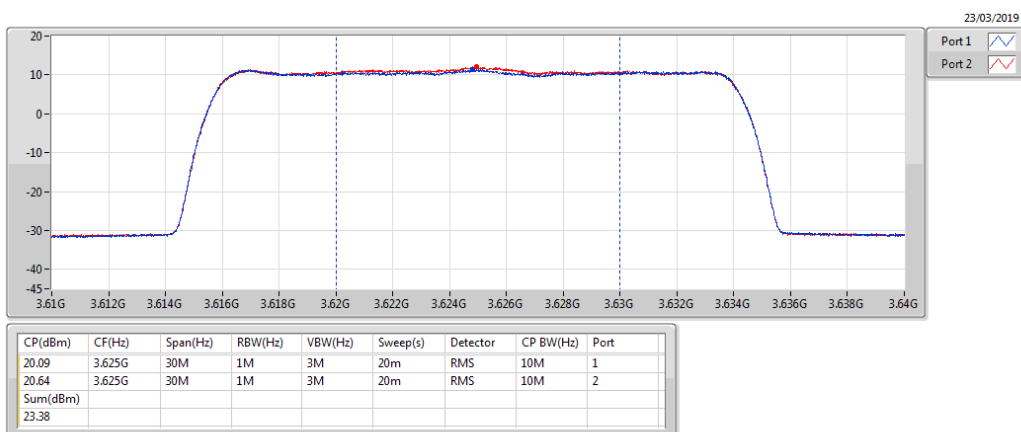
Band 48_LTE_20MHz_Nss1,16QAM_2TX 3560MHz_16QAM_RB 100,#RB 0

PowerAV



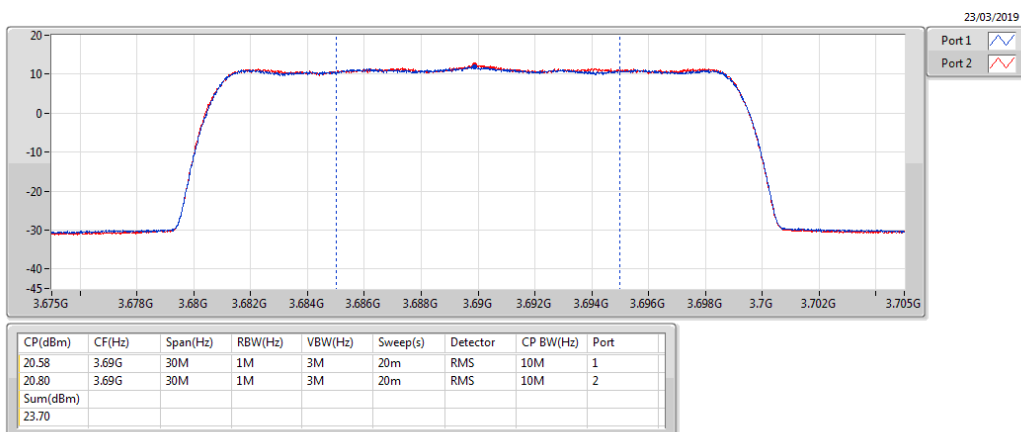
Band 48_LTE_20MHz_Nss1,16QAM_2TX 3625MHz_16QAM_RB 100,#RB 0

PowerAV



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

PowerAV



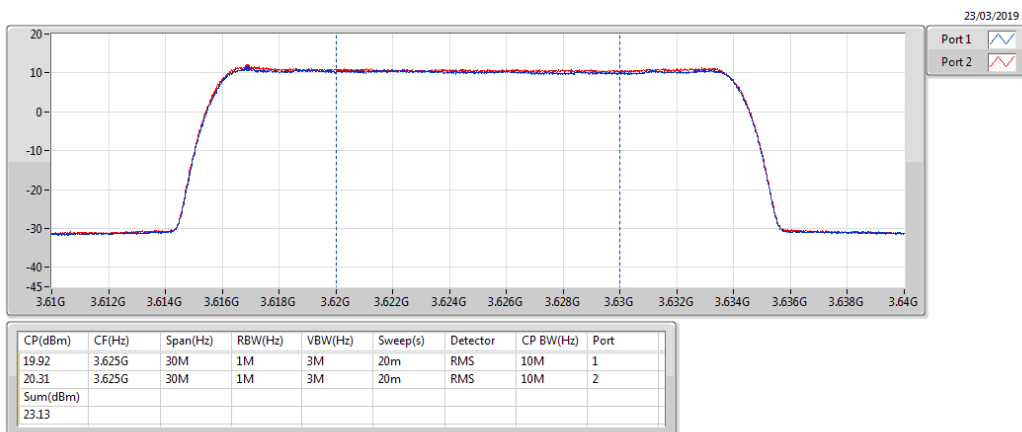
Band 48_LTE_20MHz_Nss1,64QAM_2TX 3560MHz_64QAM_RB 100,#RB 0

PowerAV



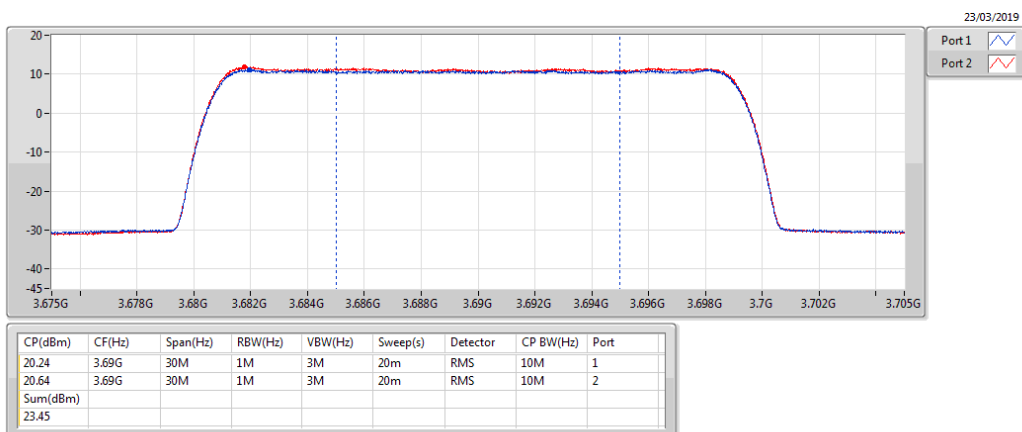
Band 48_LTE_20MHz_Nss1,64QAM_2TX 3625MHz_64QAM_RB 100,#RB 0

PowerAV



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

PowerAV



<Multi-carrier and/or CA>
Summary

Mode	Max Carrier Power (dBm)	Max Carrier Power (W)	Max Carrier EIRP (dBm)	Max Carrier EIRP (W)
Band 48	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	26.89	0.488	29.14	0.820
LTE_20MHz+20MHz_16QAM_4TX	25.96	0.394	28.21	0.662
LTE_20MHz+20MHz_64QAM_4TX	25.59	0.362	27.84	0.608

Result

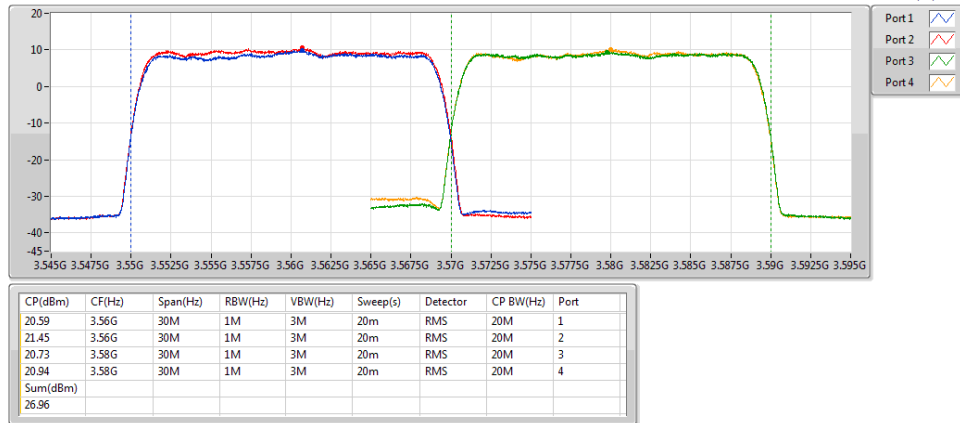
Mode	Setting	Result	DG (dBi)	1Carrier Port 1 (dBm)	1Carrier Port 2 (dBm)	2Carrier Port 3 (dBm)	2Carrier Port 4 (dBm)	Max Carrier Power (dBm)	Max Carrier Power (W)	Max Carrier EIRP (dBm)	Max Carrier EIRP (W)	EIRP Lim. (W)
Band 48_LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.59	21.45	20.73	20.94	24.05	0.254	26.30	0.427	Inf
P#3615MHz,#3635MHz	24	Pass	2.25	23.24	24.15	23.75	24.01	26.89	0.488	29.14	0.820	Inf
P#3670MHz,#3690MHz	22	Pass	2.25	21.23	21.94	21.31	21.18	24.61	0.289	26.86	0.485	Inf
P#3560MHz,#3690MHz	22	Pass	2.25	20.56	21.56	21.39	21.36	24.39	0.275	26.64	0.461	Inf
Band 48_LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.50	20.95	20.72	20.93	23.84	0.242	26.09	0.406	Inf
P#3615MHz,#3635MHz	24	Pass	2.25	22.56	22.85	22.86	23.03	25.96	0.394	28.21	0.662	Inf
P#3670MHz,#3690MHz	22	Pass	2.25	20.90	21.13	21.05	20.92	24.03	0.253	26.28	0.425	Inf
P#3560MHz,#3690MHz	22	Pass	2.25	20.44	21.01	21.33	21.34	24.35	0.272	26.60	0.457	Inf
Band 48_LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	20.54	20.95	20.60	20.91	23.77	0.238	26.02	0.400	Inf
P#3615MHz,#3635MHz	24	Pass	2.25	22.22	22.47	22.51	22.64	25.59	0.362	27.84	0.608	Inf
P#3670MHz,#3690MHz	22	Pass	2.25	21.15	21.27	21.32	21.25	24.3	0.269	26.55	0.452	Inf
P#3560MHz,#3690MHz	22	Pass	2.25	20.60	20.97	21.35	21.30	24.34	0.272	26.59	0.456	Inf

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

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

P#3615MHz,#3635MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

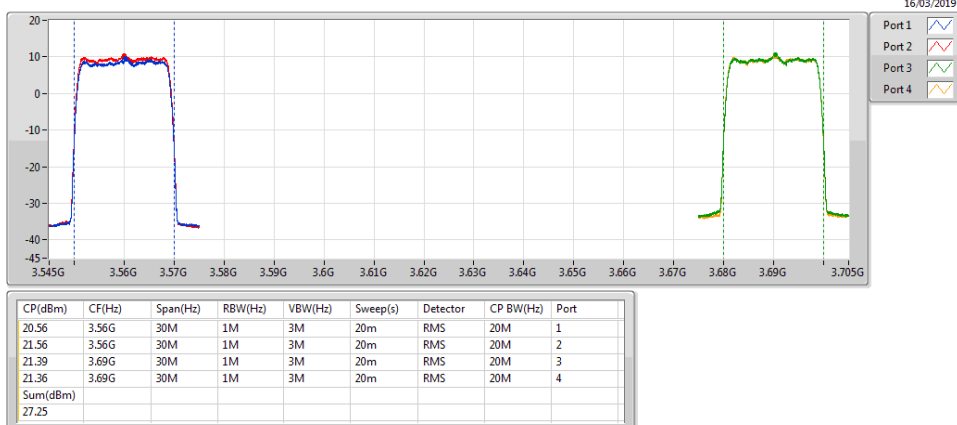
P#3670MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PowerAV

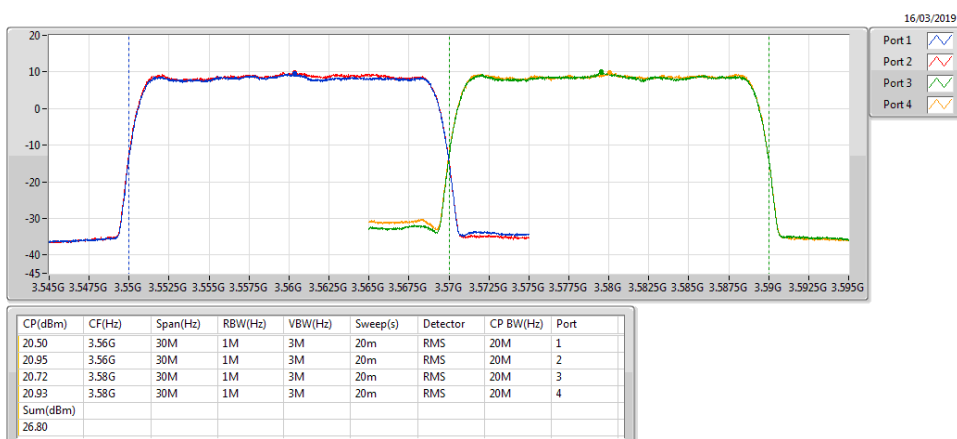
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PowerAV

P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PowerAV

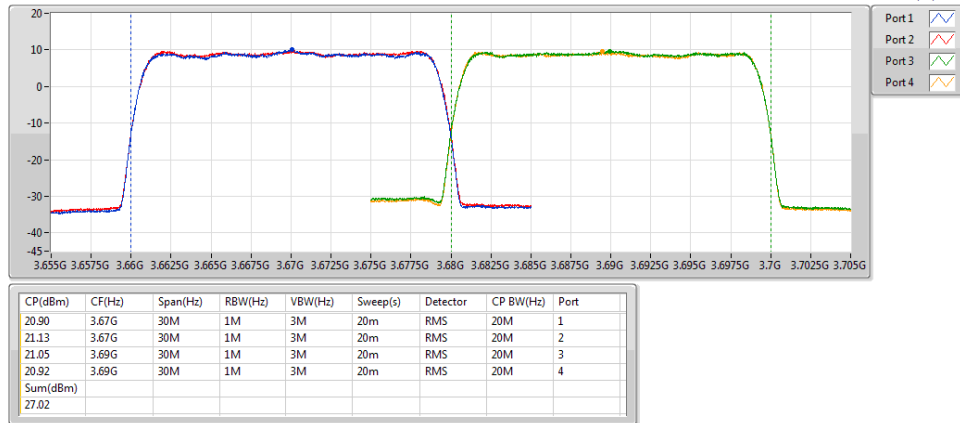
P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

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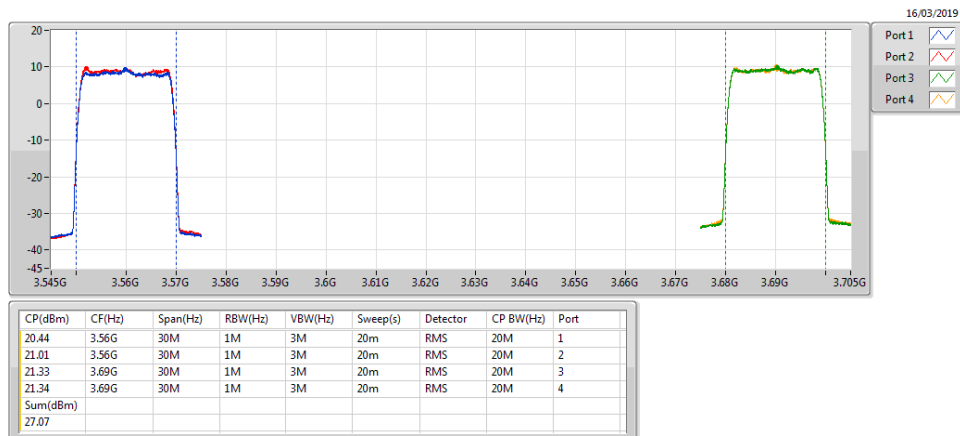
PowerAV



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

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

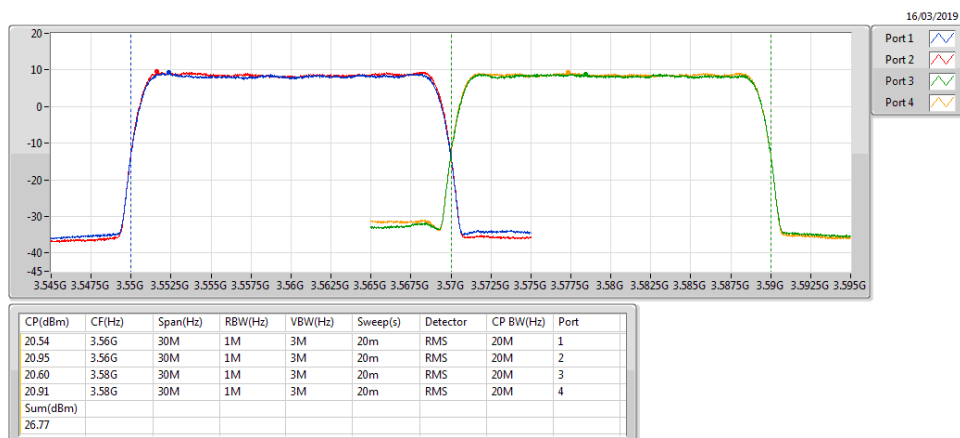
PowerAV



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

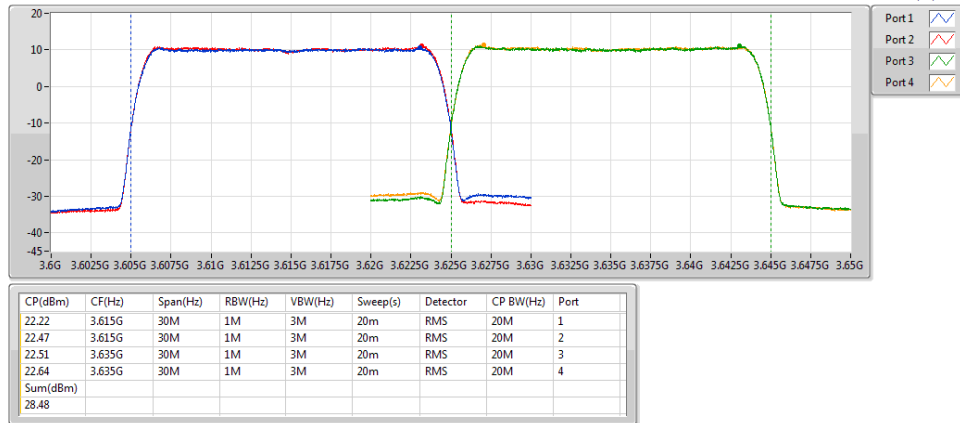
P#3560MHz,#3580MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



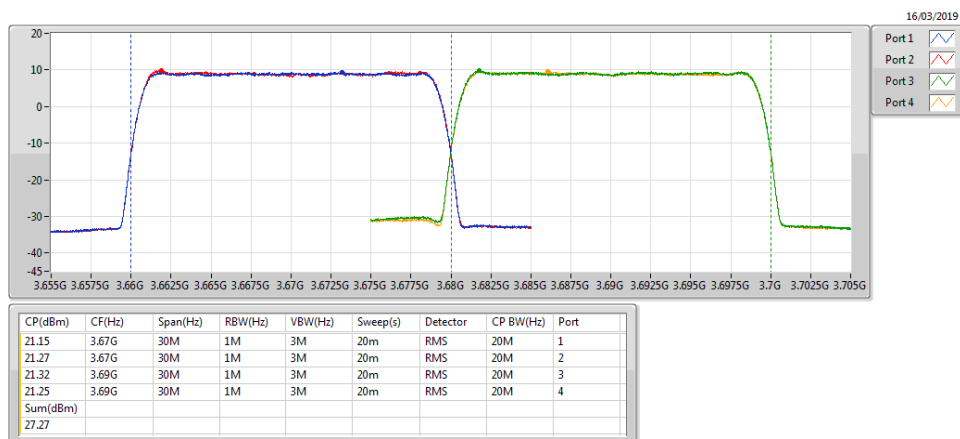
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



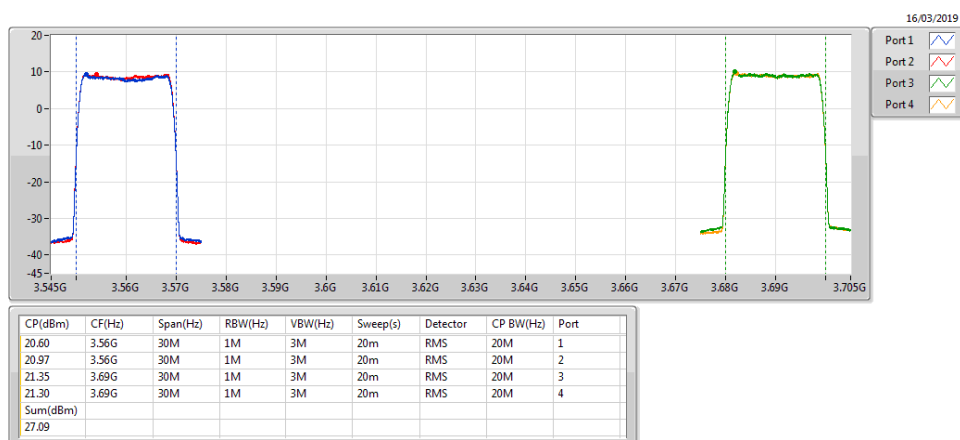
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

PowerAV



<Multi-carrier and/or CA>
Summary

Mode	Max Carrier Power (dBm/10MHz)	Max Carrier Power (W)	Max Carrier EIRP (dBm/10MHz)	Max Carrier EIRP (W)
Band 48	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	22.84	0.192	25.09	0.323
LTE_20MHz+20MHz_16QAM_4TX	23.16	0.207	25.41	0.348
LTE_20MHz+20MHz_64QAM_4TX	23.05	0.202	25.3	0.339

Result

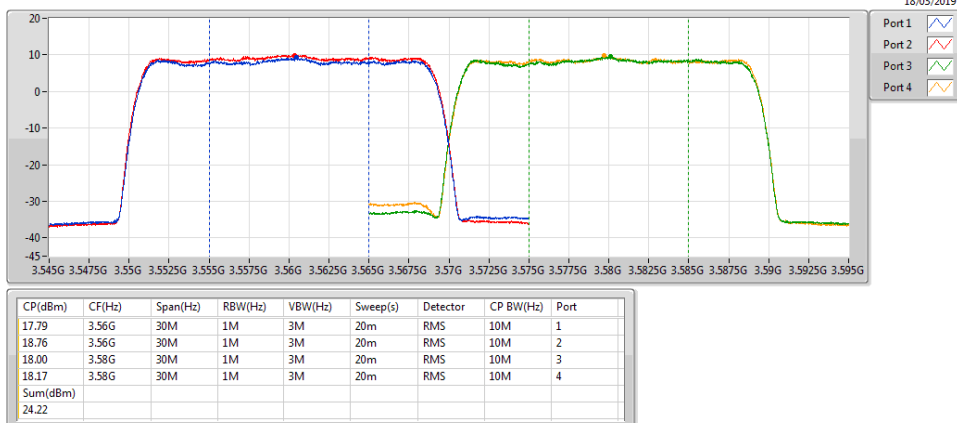
Mode	Setting	Result	DG (dBi)	1Carrier Port 1 (dBm/ 10MHz)	1Carrier Port 2 (dBm/ 10MHz)	2Carrier Port 3 (dBm/ 10MHz)	2Carrier Port 4 (dBm/ 10MHz)	Max Carrier Power (dBm/ 10MHz)	Max Carrier Power (W)	Max Carrier EIRP (dBm/ 10MHz)	Max Carrier EIRP (W)	EIRP Limit. (W)
Band 48_LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	17.79	18.76	18.00	18.17	21.31	0.135	23.56	0.227	50.1
P#3615MHz,#3635MHz	24	Pass	2.25	19.38	19.58	19.73	19.92	22.84	0.192	25.09	0.323	50.1
P#3670MHz,#3690MHz	22	Pass	2.25	18.37	19.06	18.55	18.52	21.74	0.149	23.99	0.251	50.1
P#3560MHz,#3690MHz	22	Pass	2.25	17.79	18.58	18.62	18.57	21.61	0.145	23.86	0.243	50.1
Band 48_LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	18.03	18.83	18.03	18.27	21.46	0.140	23.71	0.235	50.1
P#3615MHz,#3635MHz	24	Pass	2.25	19.81	20.46	19.91	20.06	23.16	0.207	25.41	0.348	50.1
P#3670MHz,#3690MHz	22	Pass	2.25	18.41	19.09	18.58	18.44	21.77	0.150	24.02	0.252	50.1
P#3560MHz,#3690MHz	22	Pass	2.25	18.00	18.90	18.58	18.50	21.55	0.143	23.8	0.240	50.1
Band 48_LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	17.68	18.22	17.83	18.05	20.97	0.125	23.22	0.210	50.1
P#3615MHz,#3635MHz	24	Pass	2.25	19.59	19.86	19.95	20.12	23.05	0.202	25.3	0.339	50.1
P#3670MHz,#3690MHz	22	Pass	2.25	18.23	18.39	18.25	18.22	21.32	0.136	23.57	0.228	50.1
P#3560MHz,#3690MHz	22	Pass	2.25	17.74	18.04	18.16	18.14	21.16	0.131	23.41	0.219	50.1

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

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_4TX

PowerAV

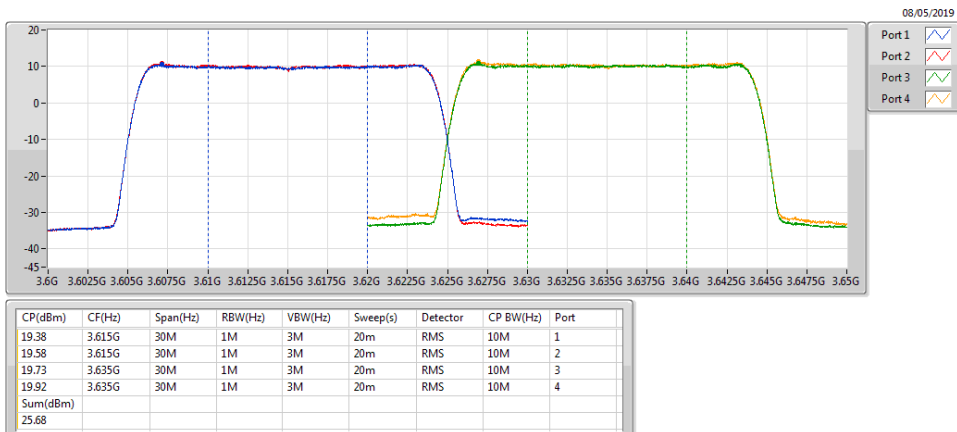
P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,QPSK_4TX

PowerAV

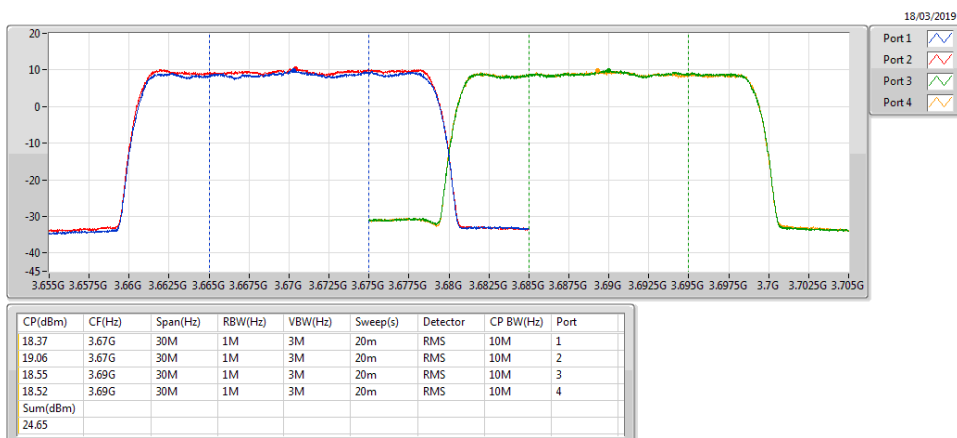
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Band 48_LTE_10MHz+10MHz_Nss1,QPSK_4TX

PowerAV

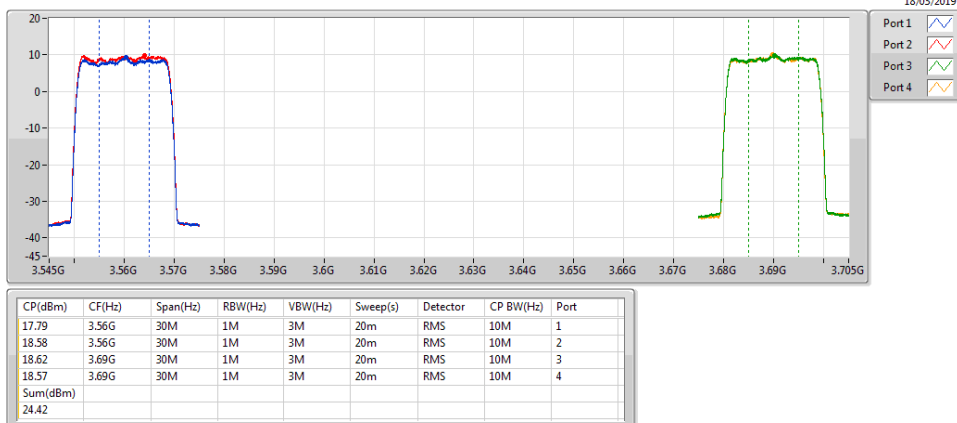
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Band 48_LTE_10MHz+10MHz_Nss1,QPSK_4TX

PowerAV

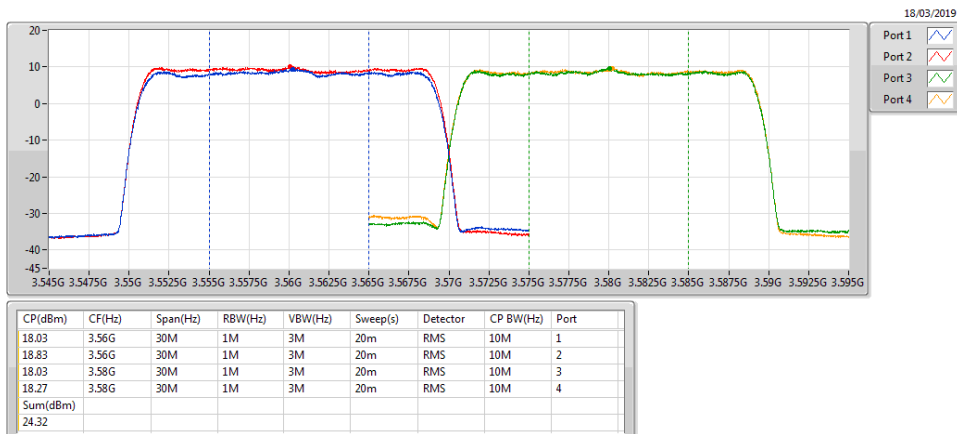
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_4TX

PowerAV

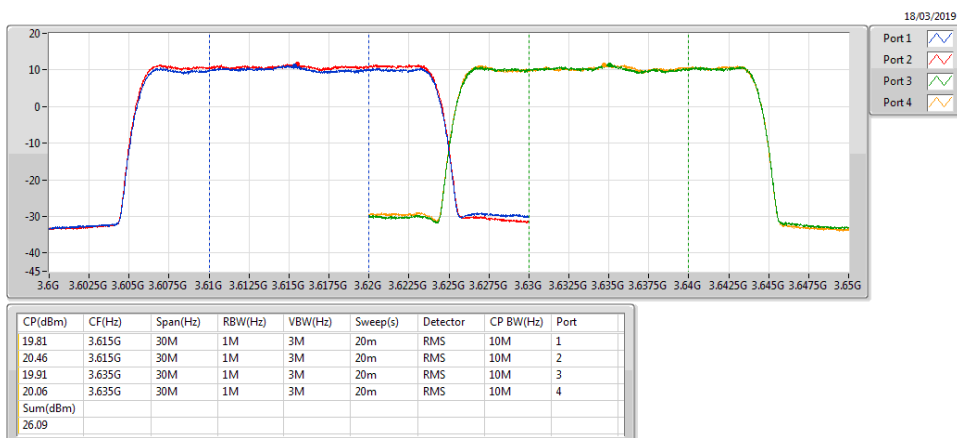
P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_4TX

PowerAV

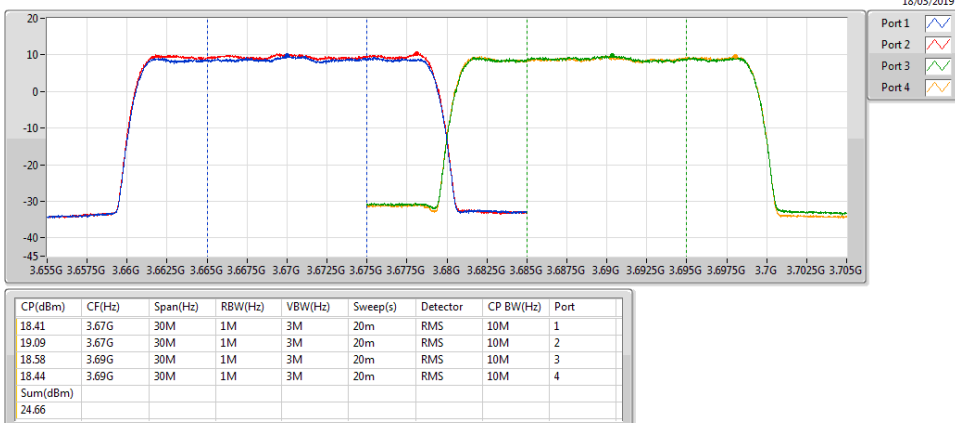
P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_4TX

P#3670MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

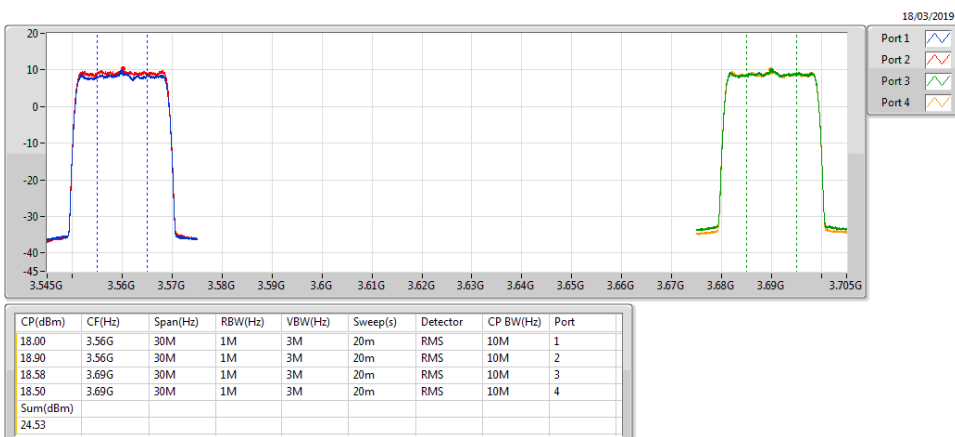
PowerAV



Band 48_LTE_10MHz+10MHz_Nss1,16QAM_4TX

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

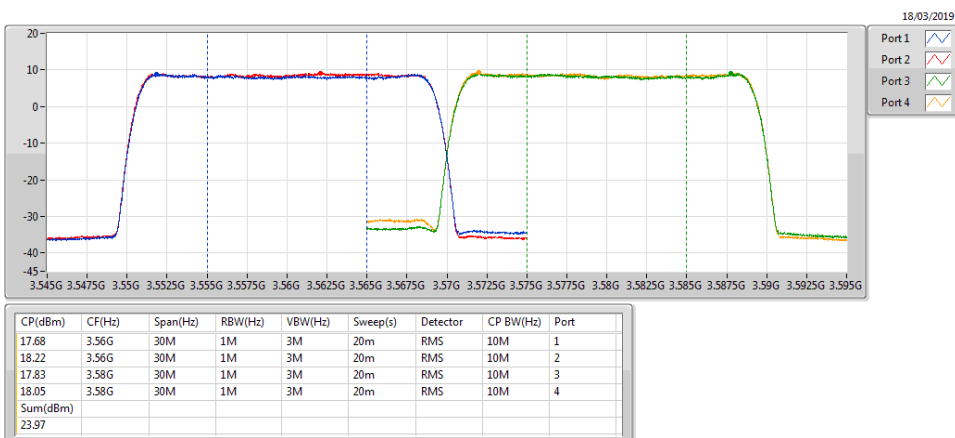
PowerAV



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_4TX

P#3560MHz,#3580MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

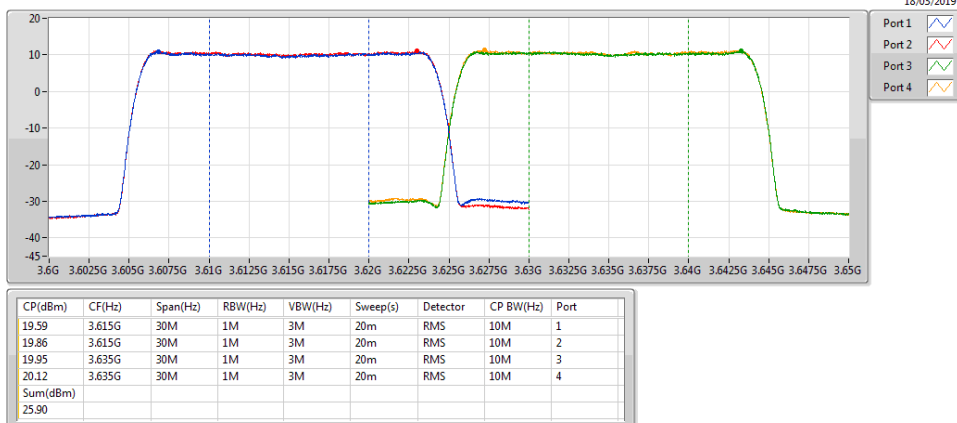
PowerAV



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_4TX

P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

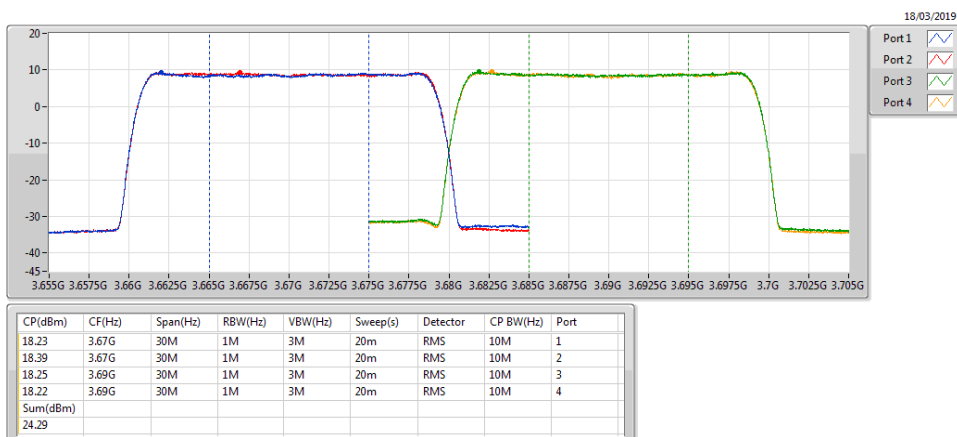
PowerAV



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_4TX

P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

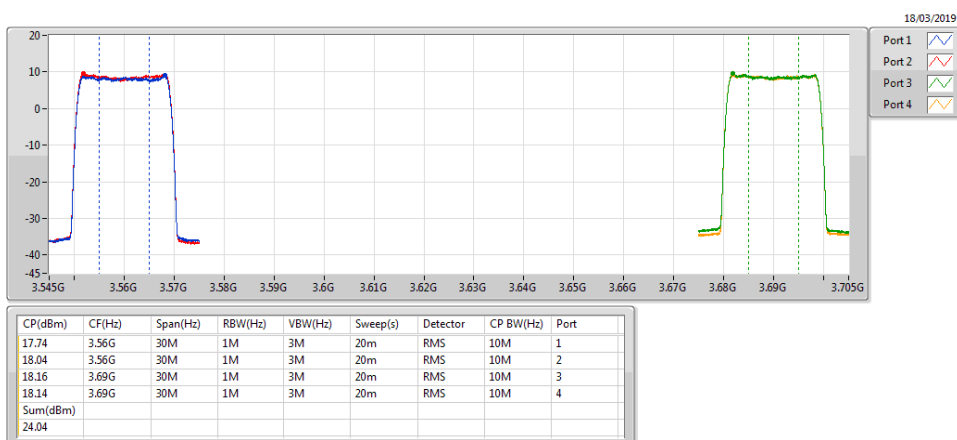
PowerAV



Band 48_LTE_10MHz+10MHz_Nss1,64QAM_4TX

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

PowerAV





PSD Result

Appendix C.1

<Single-carrier> Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_10MHz_Nss1,QPSK_2TX	16.23	18.33
LTE_10MHz_Nss1,16QAM_2TX	16.49	18.59
LTE_10MHz_Nss1,64QAM_2TX	15.79	17.89
LTE_20MHz_Nss1,QPSK_2TX	15.11	17.21
LTE_20MHz_Nss1,16QAM_2TX	15.03	17.13
LTE_20MHz_Nss1,64QAM_2TX	14.75	16.85

Result

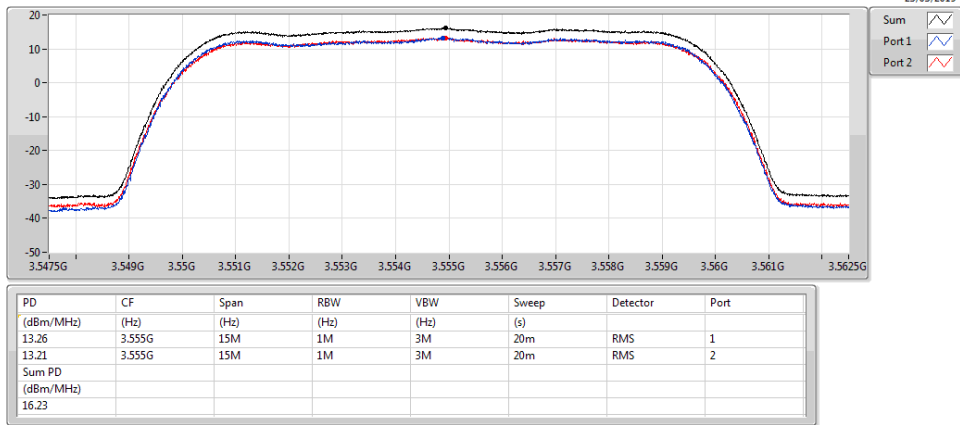
Mode	Setting	Result	DG (dBi)	Port 1 (dBm/MHz)	Port 2 (dBm/MHz)	PD (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
Band 48_LTE_10MHz_Nss1,QPSK_2TX		-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0	22	Pass	2.10	13.26	13.21	16.23	18.33	37.00
3625MHz_RB 50,#RB 0	22	Pass	2.10	12.91	13.51	16.07	18.17	37.00
3695MHz_RB 50,#RB 0	22	Pass	2.10	13.38	13.26	16.17	18.27	37.00
Band 48_LTE_10MHz_Nss1,16QAM_2TX		-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0	22	Pass	2.10	13.52	13.08	16.20	18.30	37.00
3625MHz_RB 50,#RB 0	22	Pass	2.10	12.95	13.13	16.05	18.15	37.00
3695MHz_RB 50,#RB 0	22	Pass	2.10	13.57	13.54	16.49	18.59	37.00
Band 48_LTE_10MHz_Nss1,64QAM_2TX		-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0	22	Pass	2.10	13.04	12.66	15.79	17.89	37.00
3625MHz_RB 50,#RB 0	22	Pass	2.10	12.21	12.23	15.18	17.28	37.00
3695MHz_RB 50,#RB 0	22	Pass	2.10	12.78	12.79	15.62	17.72	37.00
Band 48_LTE_20MHz_Nss1,QPSK_2TX		-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0	23.5	Pass	2.10	11.62	11.61	14.50	16.60	37.00
3625MHz_RB 100,#RB 0	23.5	Pass	2.10	12.17	11.85	14.89	16.99	37.00
3690MHz_RB 100,#RB 0	23.5	Pass	2.10	12.43	11.89	15.11	17.21	37.00
Band 48_LTE_20MHz_Nss1,16QAM_2TX		-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0	23.5	Pass	2.10	11.78	11.81	14.81	16.91	37.00
3625MHz_RB 100,#RB 0	23.5	Pass	2.10	11.64	11.94	14.80	16.90	37.00
3690MHz_RB 100,#RB 0	23.5	Pass	2.10	11.67	12.62	15.03	17.13	37.00
Band 48_LTE_20MHz_Nss1,64QAM_2TX		-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0	23.5	Pass	2.10	11.35	11.56	14.38	16.48	37.00
3625MHz_RB 100,#RB 0	23.5	Pass	2.10	11.73	11.89	14.75	16.85	37.00
3690MHz_RB 100,#RB 0	23.5	Pass	2.10	11.63	11.78	14.64	16.74	37.00

DG = Directional Gain;

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

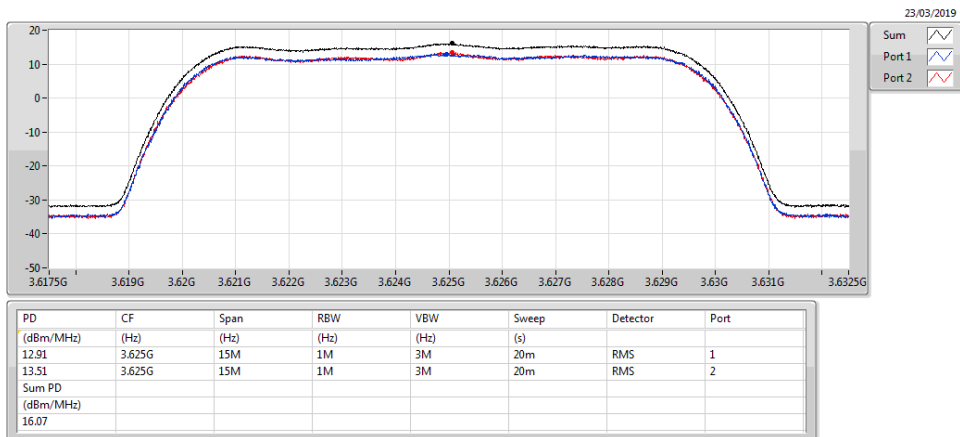
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3555MHz_QPSK_RB 50,#RB 0

PSD



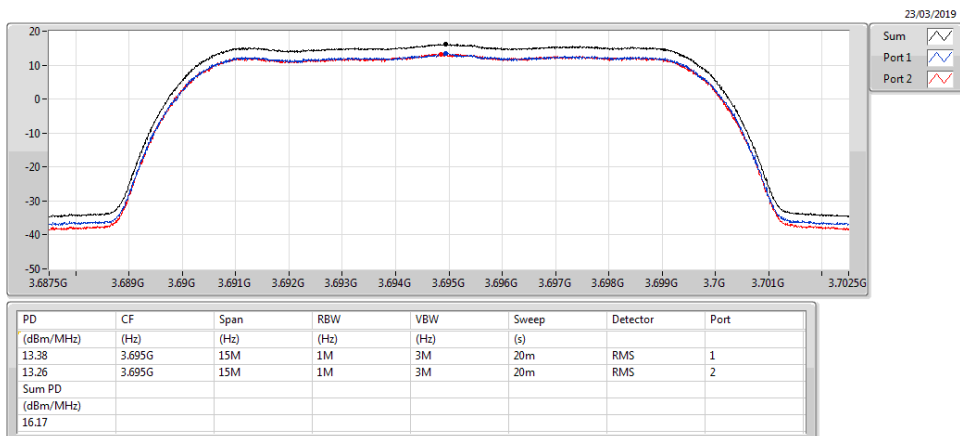
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 50,#RB 0

PSD



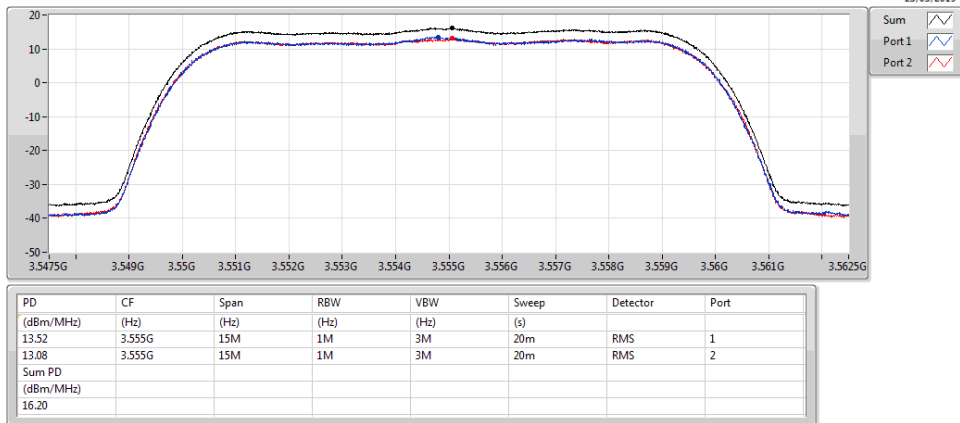
Band 48_LTE_10MHz_Nss1,QPSK_2TX
3695MHz_QPSK_RB 50,#RB 0

PSD



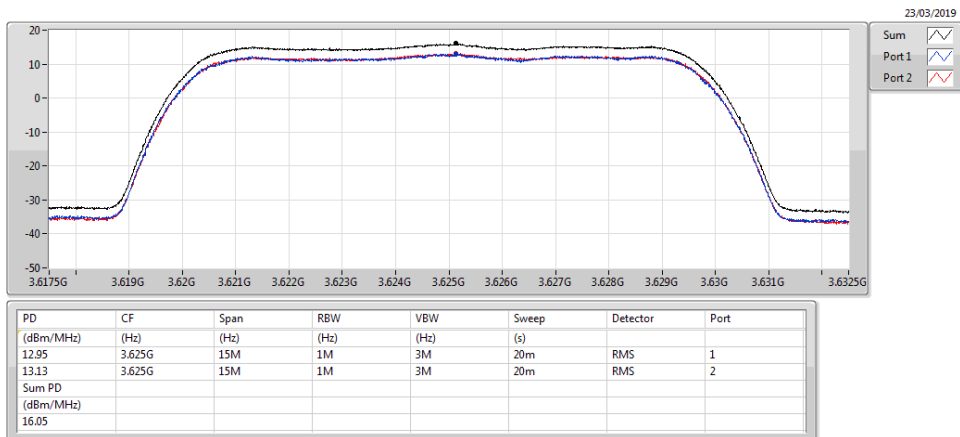
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

PSD



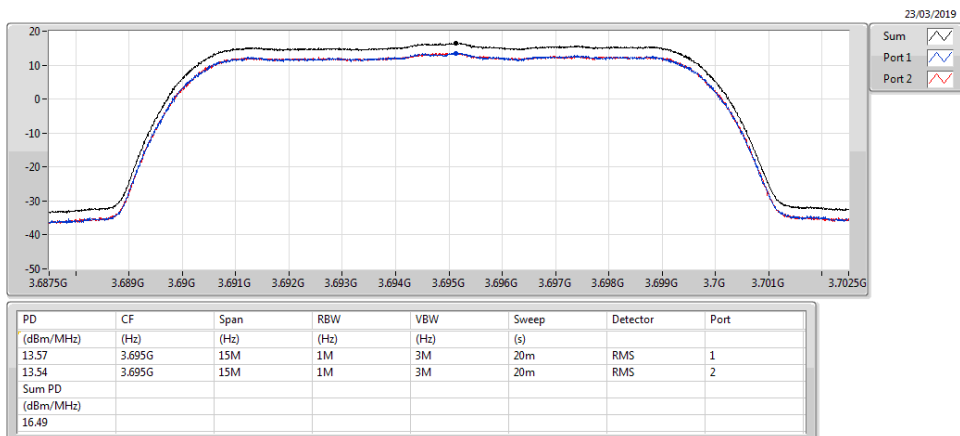
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PSD



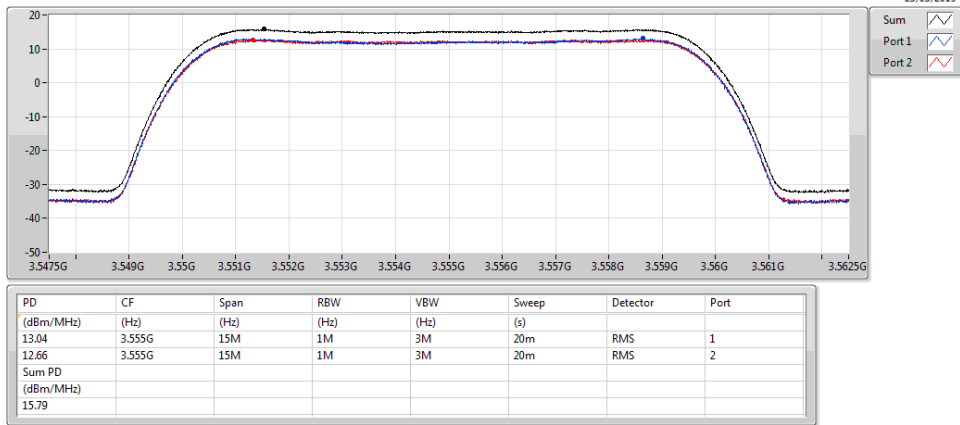
Band 48_LTE_10MHz_Nss1,16QAM_2TX
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PSD



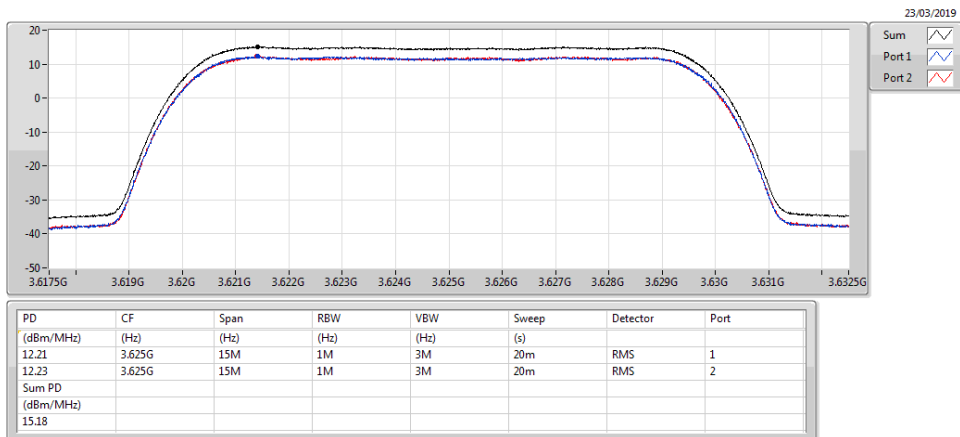
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

PSD



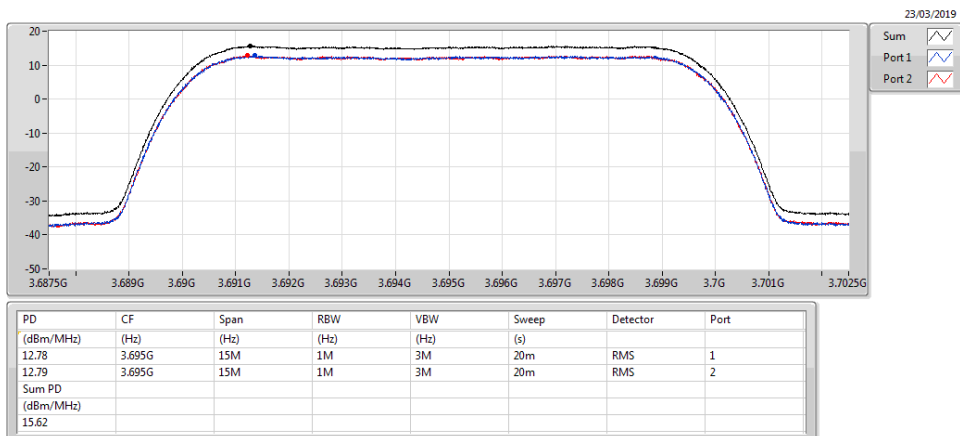
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

PSD



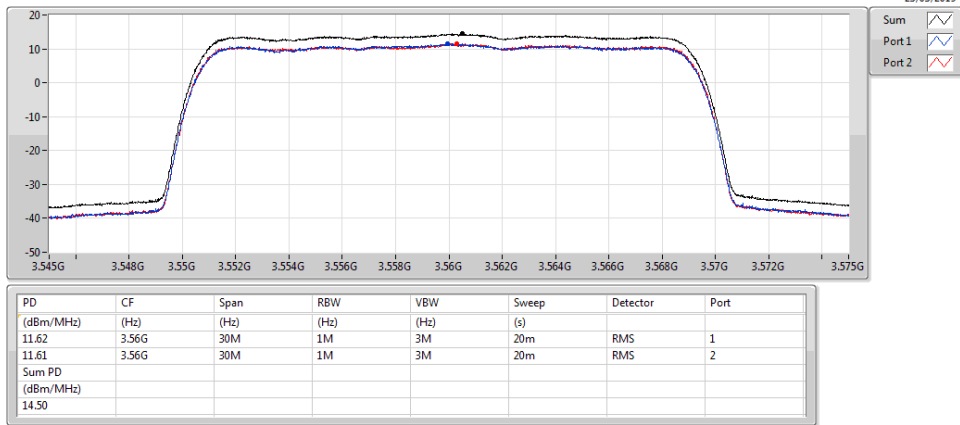
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3695MHz_64QAM_RB 50,#RB 0

PSD



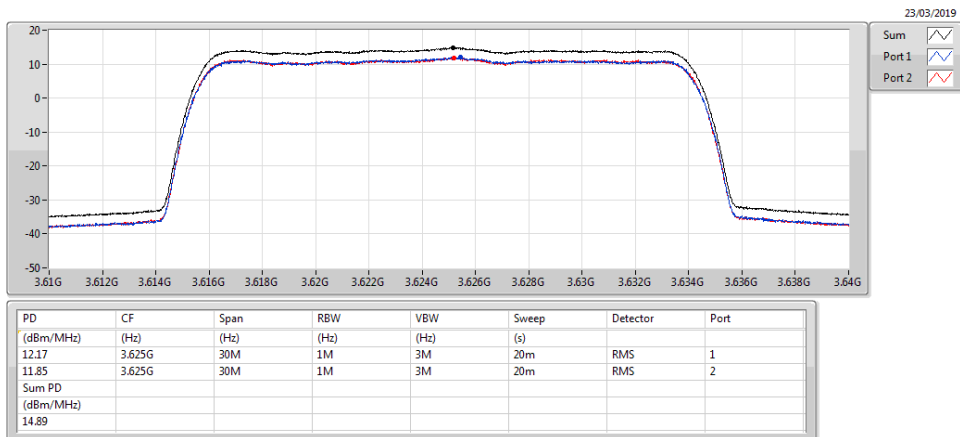
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3560MHz_QPSK_RB 100,#RB 0

PSD



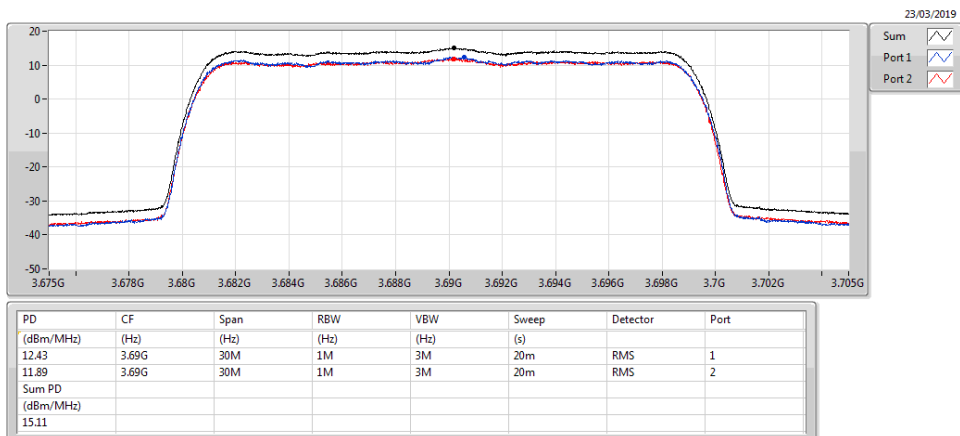
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3625MHz_QPSK_RB 100,#RB 0

PSD



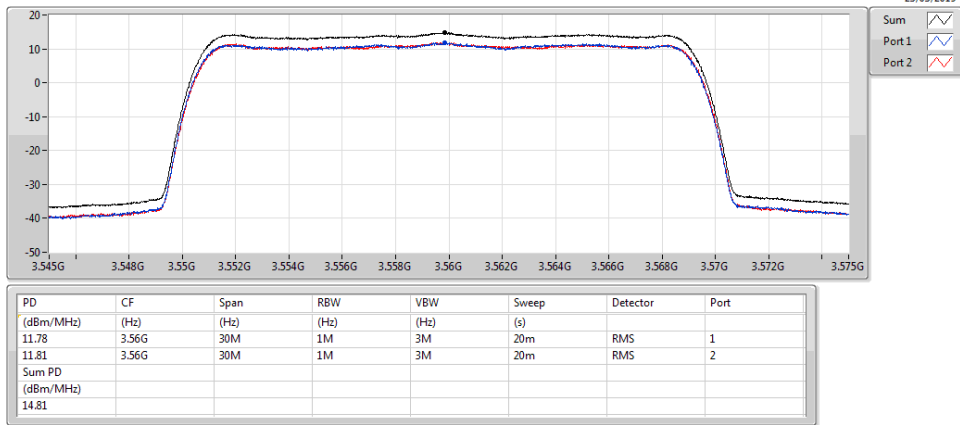
Band 48_LTE_20MHz_Nss1,QPSK_2TX
3690MHz_QPSK_RB 100,#RB 0

PSD



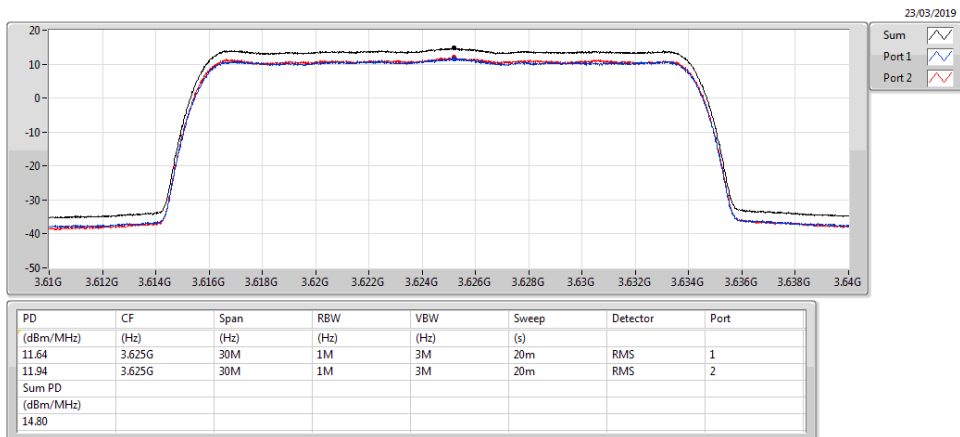
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz_16QAM_RB 100,#RB 0

PSD



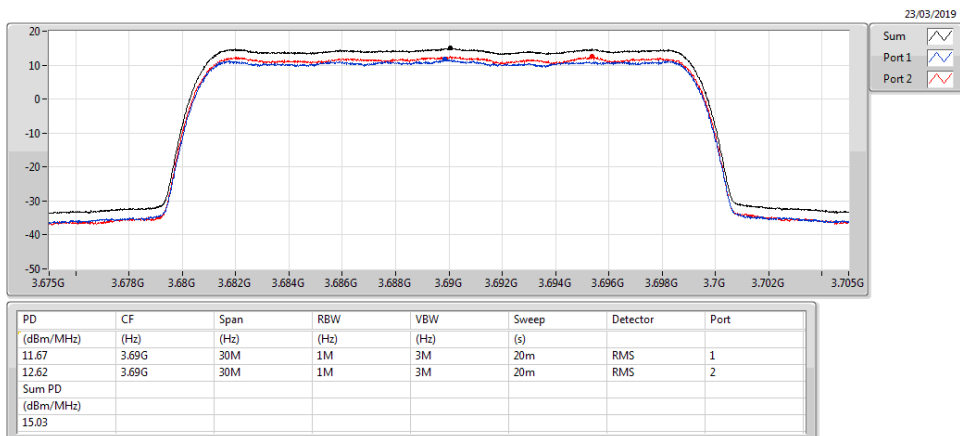
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 100,#RB 0

PSD



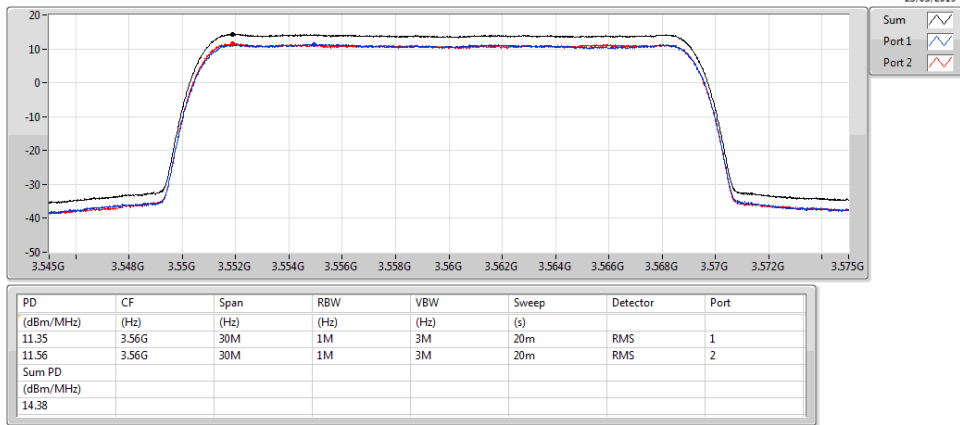
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz_16QAM_RB 100,#RB 0

PSD



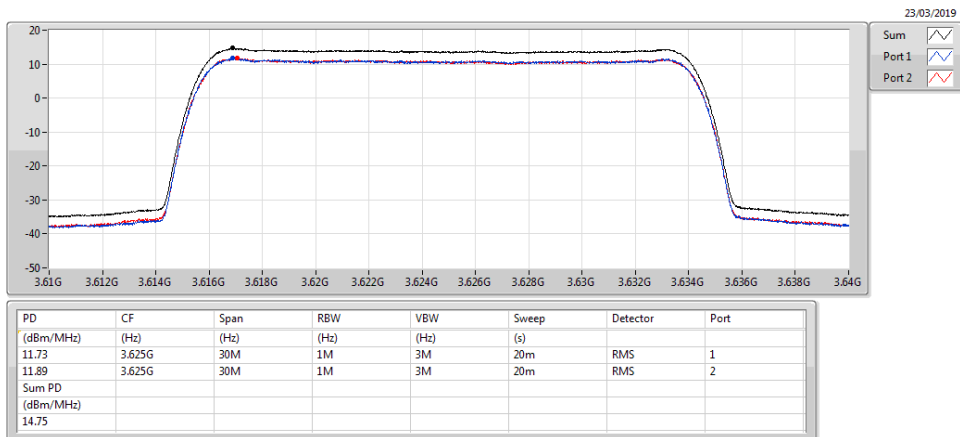
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

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



**<Multi-carrier and/or CA>
Summary**

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_20MHz+20MHz_QPSK_4TX	13.04	15.29
LTE_20MHz+20MHz_16QAM_4TX	12.86	15.11
LTE_20MHz+20MHz_64QAM_4TX	12.76	15.01

Result

Mode	Setting	Result	DG (dBi)	Port 1 (dBm/MHz)	Port 2 (dBm/MHz)	Port 3 (dBm/MHz)	Port 4 (dBm/MHz)	PD (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	8.07	8.94	7.93	8.07	11.44	13.69	37.00
P#3615MHz,#3635MHz	24	Pass	2.25	9.68	10.40	10.08	10.12	13.04	15.29	37.00
P#3670MHz,#3690MHz	22	Pass	2.25	8.56	9.39	8.61	8.74	11.81	14.06	37.00
P#3560MHz,#3690MHz	22	Pass	2.25	7.62	8.15	8.67	8.76	11.73	13.98	37.00
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	7.95	8.07	7.89	8.14	10.97	13.22	37.00
P#3615MHz,#3635MHz	24	Pass	2.25	9.69	9.61	9.81	10.06	12.86	15.11	37.00
P#3670MHz,#3690MHz	22	Pass	2.25	7.93	8.13	8.25	8.00	11.01	13.26	37.00
P#3560MHz,#3690MHz	22	Pass	2.25	7.67	7.59	8.85	8.53	11.60	13.85	37.00
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	22	Pass	2.25	7.72	8.06	8.01	7.72	10.80	13.05	37.00
P#3615MHz,#3635MHz	24	Pass	2.25	9.61	9.95	9.84	9.91	12.76	15.01	37.00
P#3670MHz,#3690MHz	22	Pass	2.25	8.11	8.60	8.33	8.32	11.31	13.56	37.00
P#3560MHz,#3690MHz	22	Pass	2.25	7.16	7.63	8.40	8.29	11.32	13.57	37.00

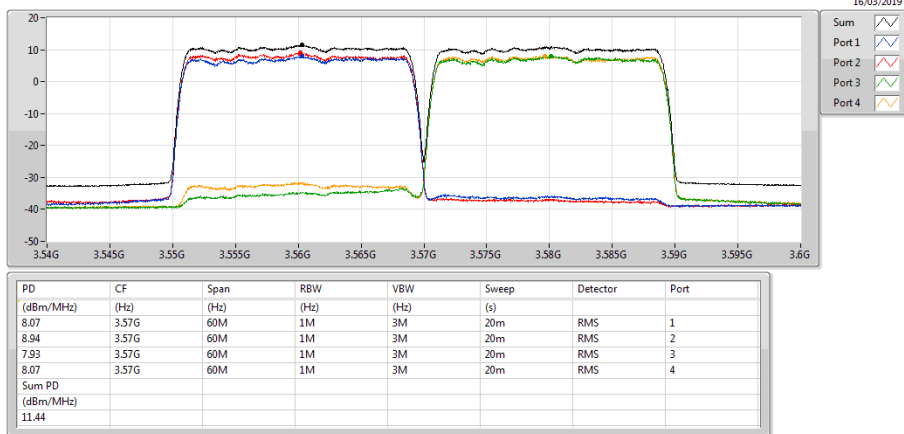
DG = Directional Gain;

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

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PSD

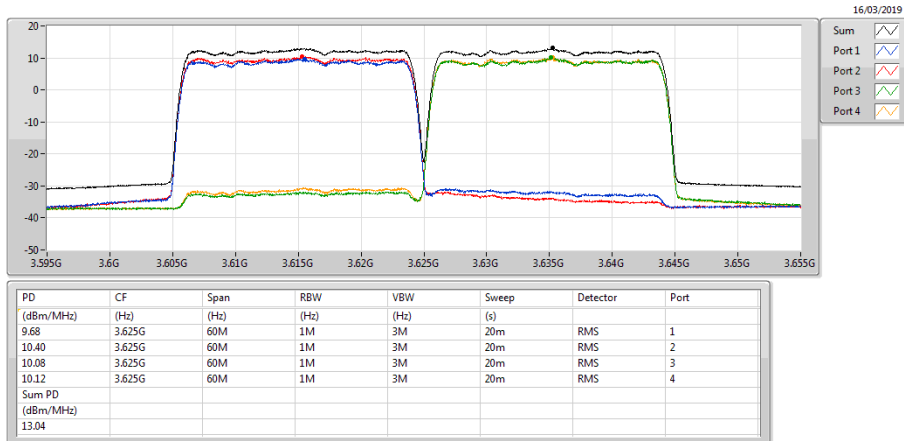
P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PSD

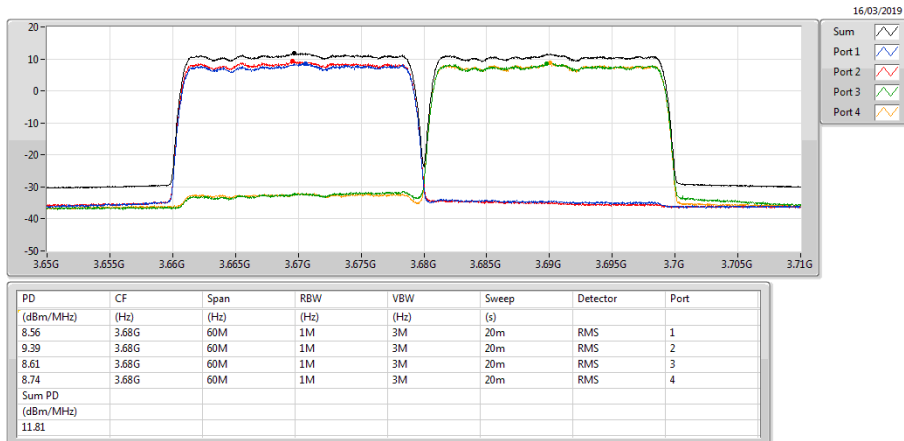
P#3615MHz,#3635MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PSD

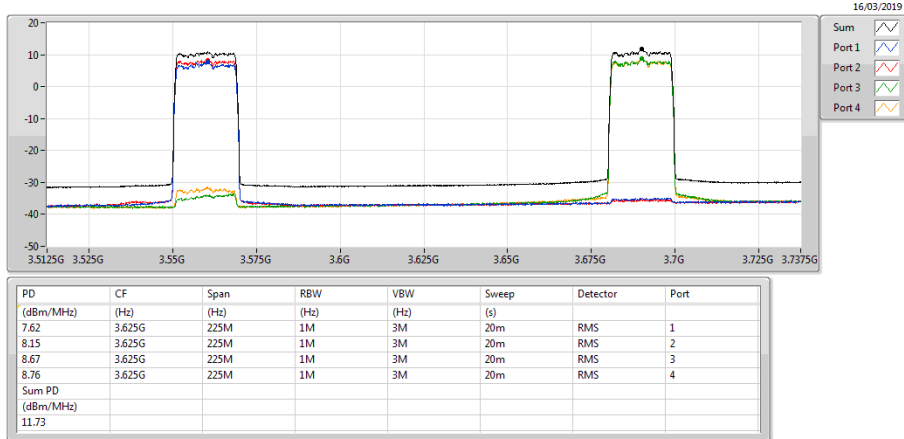
P#3670MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PSD

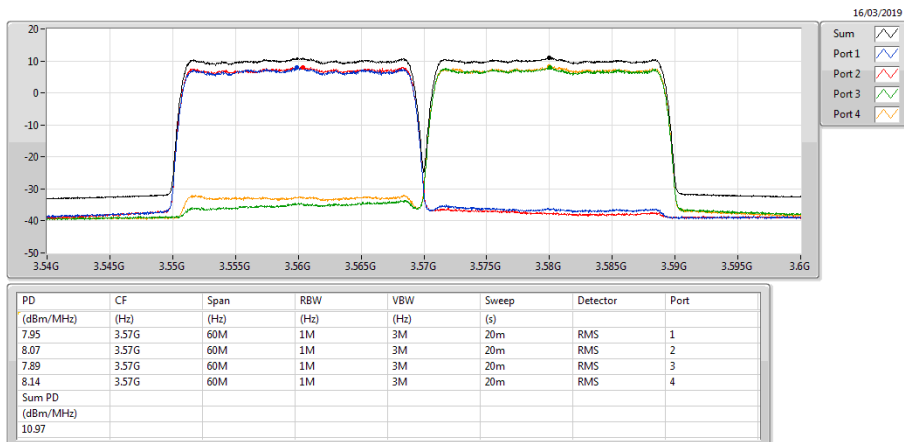
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PSD

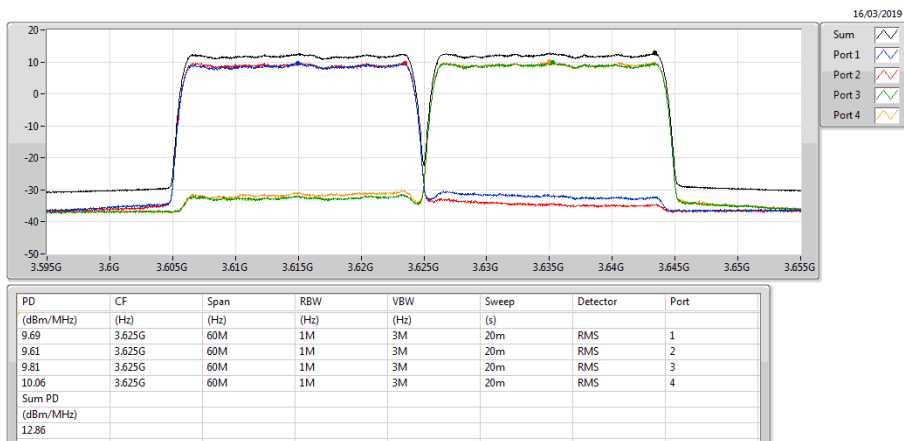
P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PSD

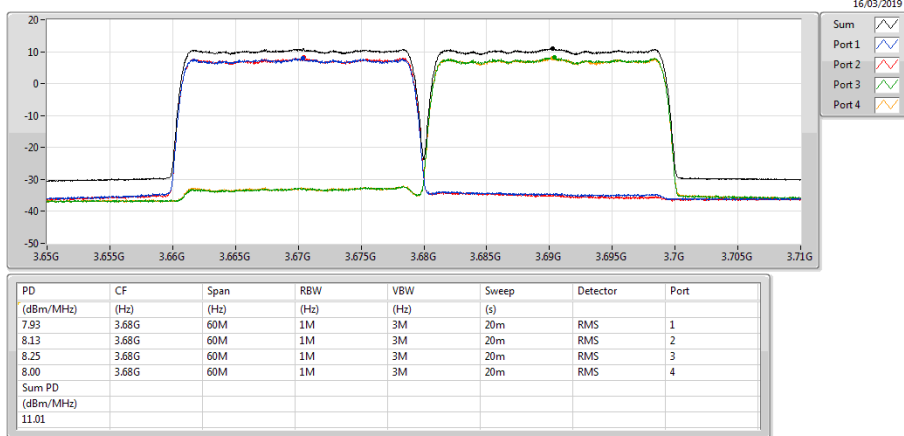
P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PSD

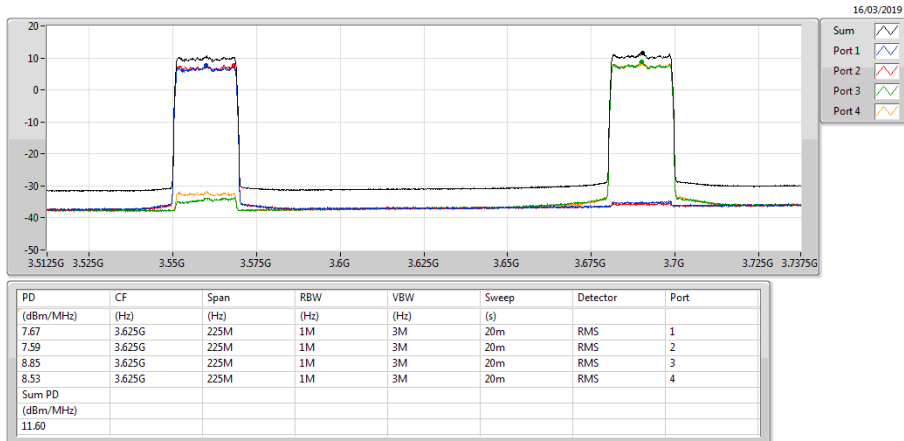
P#3670MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PSD

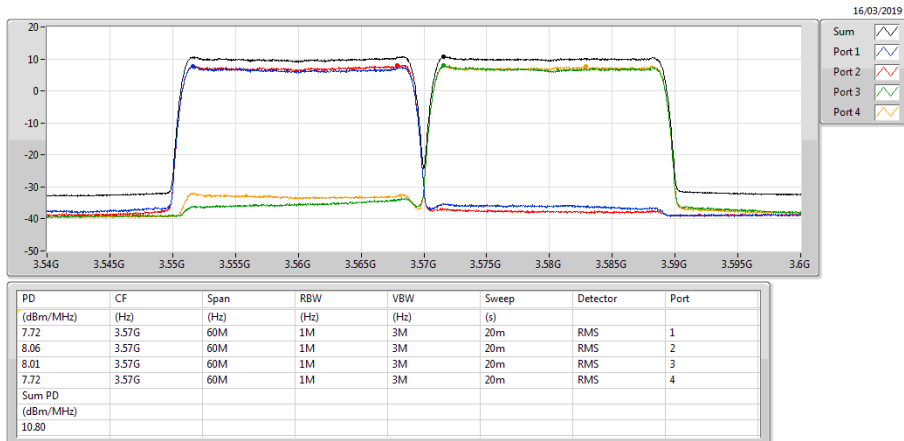
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PSD

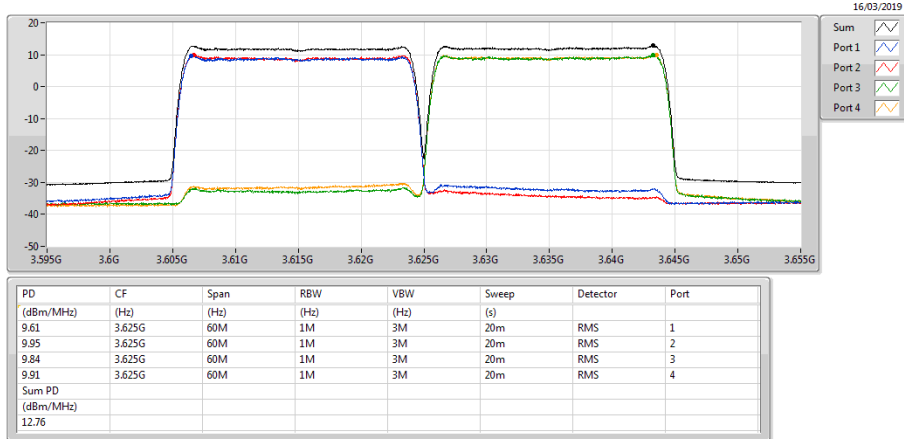
P#3560MHz,#3580MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PSD

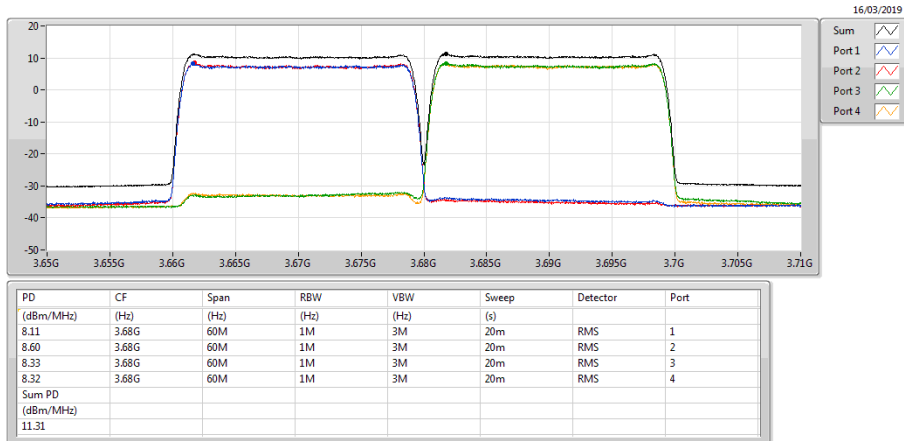
P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PSD

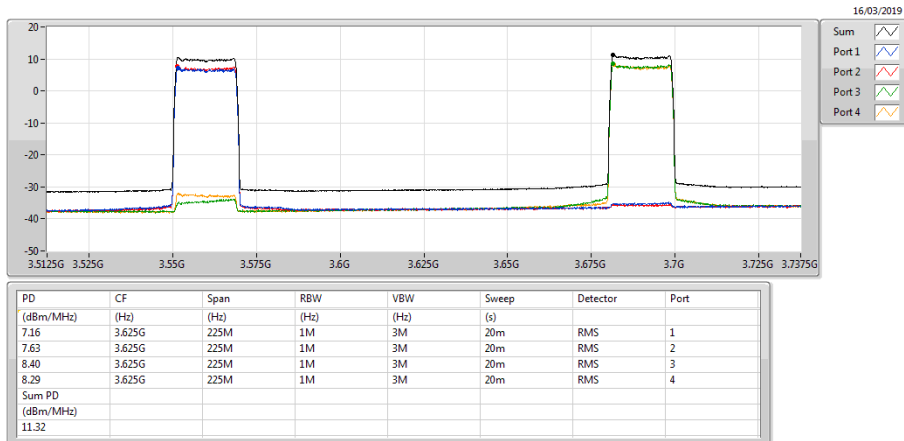
P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PSD

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



<Single-carrier>

Result

Mode	P1 Wanted signal power level (dBm)	Adjacent Channel Selectivity Throughput (%)	In-band blocking Throughput (%)	P2 Wanted signal power level (dBm)	Adjacent Channel Selectivity Throughput (%)	In-band blocking Throughput (%)	Interference signal power level (dBm/10MHz)	Result
Band 48_LTE_10MHz_2TX	-	-	-	-	-	-		-
3625MHz, RB Offset = 0	-86.5	100	100	-86.5	100	100	-40	Pass
3625MHz, RB Offset = 25	-86.5	100	100	-86.5	100	100	-40	Pass
Band 48_LTE_20MHz_2TX								-
3625MHz, RB Offset = 0	-86.5	100	100	-86.5	100	100	-40	Pass
3625MHz, RB Offset = 25	-86.5	100	100	-86.5	100	100	-40	Pass
3625MHz, RB Offset = 50	-86.5	100	100	-86.5	100	100	-40	Pass
3625MHz, RB Offset = 75	-86.5	100	100	-86.5	100	100	-40	Pass

Note1: This requirement shall be met for each consecutive application of a single instance of FRC A1-3 mapped to disjoint frequency ranges with a width of 25 resource blocks each.

The parameters of the FRC A1-3 as below:

Allocated resource blocks	25
DFT-OFDM Symbols per subframe	12
Modulation	QPSK
Code rate	1/3
Payload size (bits)	2216
Transport block CRC (bits)	24
Code block CRC size (bits)	0
Number of code blocks - C	1
Coded block size including 12bits trellis termination (bits)	6732
Total number of bits per sub-frame	7200
Total symbols per sub-frame	3600

Note2 : The interference signal is 10MHz(50RB) LTE signal.

<Multi-carrier and/or CA>

Result

Mode	P1 Wanted signal power level	Adjacent Channel Selectivity Throughput	In-band blocking Throughput	P2 Wanted signal power level	Adjacent Channel Selectivity Throughput	In-band blocking Throughput	Interference signal power level	Result
Contiguous	(dBm)	(%)	(%)	(dBm)	(%)	(%)	(dBm/10MHz)	
Band 48_LTE_20MHz+20MHz_4TX								-
P#3615MHz,#3635MHz, RB Offset = 0	-86.5	100	100	-86.5	100	100	-40	Pass
P#3615MHz,#3635MHz, RB Offset = 25	-86.5	100	100	-86.5	100	100	-40	Pass
P#3615MHz,#3635MHz, RB Offset = 50	-86.5	100	100	-86.5	100	100	-40	Pass
P#3615MHz,#3635MHz, RB Offset = 75	-86.5	100	100	-86.5	100	100	-40	Pass

Mode	P1 Wanted signal power level	In-band blocking Throughput	P2 Wanted signal power level	In-band blocking Throughput	Interference signal power level	Result
Non-Contiguous	(dBm)	(%)	(dBm)	(%)	(dBm/10MHz)	
Band 48_LTE_20MHz+20MHz_4TX						-
P#3560MHz,#3690MHz, RB Offset = 0	-86.5	100	-86.5	100	-40	Pass
P#3560MHz,#3690MHz, RB Offset = 25	-86.5	100	-86.5	100	-40	Pass
P#3560MHz,#3690MHz, RB Offset = 50	-86.5	100	-86.5	100	-40	Pass
P#3560MHz,#3690MHz, RB Offset = 75	-86.5	100	-86.5	100	-40	Pass

Note1: This requirement shall be met for each consecutive application of a single instance of FRC A1-3 mapped to disjoint frequency ranges with a width of 25 resource blocks each.

The parameters of the FRC A1-3 as below:

Allocated resource blocks	25
DFT-OFDM Symbols per subframe	12
Modulation	QPSK
Code rate	1/3
Payload size (bits)	2216
Transport block CRC (bits)	24
Code block CRC size (bits)	0
Number of code blocks - C	1
Coded block size including 12bits trellis termination (bits)	6732
Total number of bits per sub-frame	7200
Total symbols per sub-frame	3600

Note2 : The interference signal is 10MHz(50RB) LTE signal.

<Single-carrier>
Summary

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_10MHz_QPSK_2TX	Pass	3695	12.28	13.00	1
LTE_10MHz_16QAM_2TX	Pass	3625	11.41	13.00	1
LTE_10MHz_64QAM_2TX	Pass	3555	10.51	13.00	1
LTE_20MHz_QPSK_2TX	Pass	3690	12.46	13.00	1
LTE_20MHz_16QAM_2TX	Pass	3560	12.29	13.00	1
LTE_20MHz_64QAM_2TX	Pass	3690	9.73	13.00	1

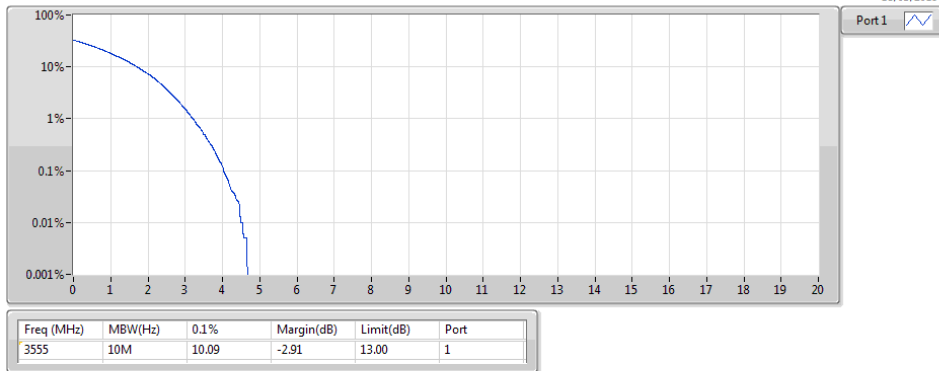
Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_10MHz_QPSK_2TX	-	-	-	-	-
3555MHz	Pass	3555	10.09	13.00	1
3625MHz	Pass	3625	10.89	13.00	1
3695MHz	Pass	3695	12.28	13.00	1
LTE_10MHz_16QAM_2TX	-	-	-	-	-
3555MHz	Pass	3555	10.00	13.00	1
3625MHz	Pass	3625	11.41	13.00	1
3695MHz	Pass	3695	10.27	13.00	1
LTE_10MHz_64QAM_2TX	-	-	-	-	-
3555MHz	Pass	3555	10.51	13.00	1
3625MHz	Pass	3625	9.66	13.00	1
3695MHz	Pass	3695	10.00	13.00	1
LTE_20MHz_QPSK_2TX	-	-	-	-	-
3560MHz	Pass	3560	9.74	13.00	1
3625MHz	Pass	3625	9.23	13.00	1
3690MHz	Pass	3690	12.46	13.00	1
LTE_20MHz_16QAM_2TX	-	-	-	-	-
3560MHz	Pass	3560	12.29	13.00	1
3625MHz	Pass	3625	9.64	13.00	1
3690MHz	Pass	3690	10.76	13.00	1
LTE_20MHz_64QAM_2TX	-	-	-	-	-
3560MHz	Pass	3560	9.34	13.00	1
3625MHz	Pass	3625	9.20	13.00	1
3690MHz	Pass	3690	9.73	13.00	1

Band 48_LTE_10MHz_Nss1,QPSK_2TX

PAR

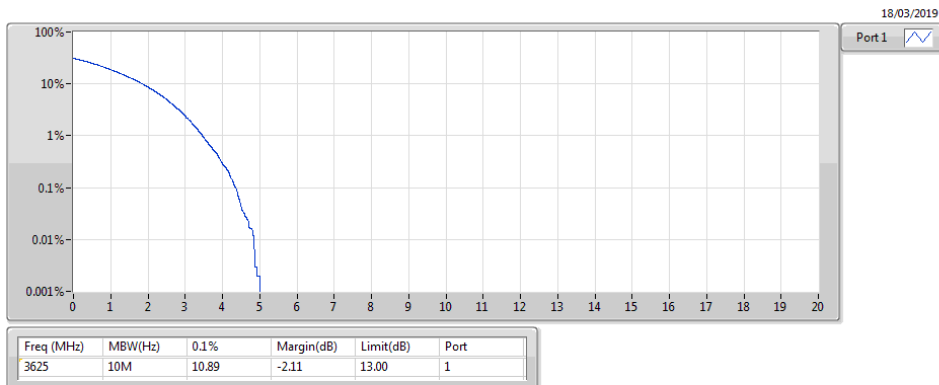
3555MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

PAR

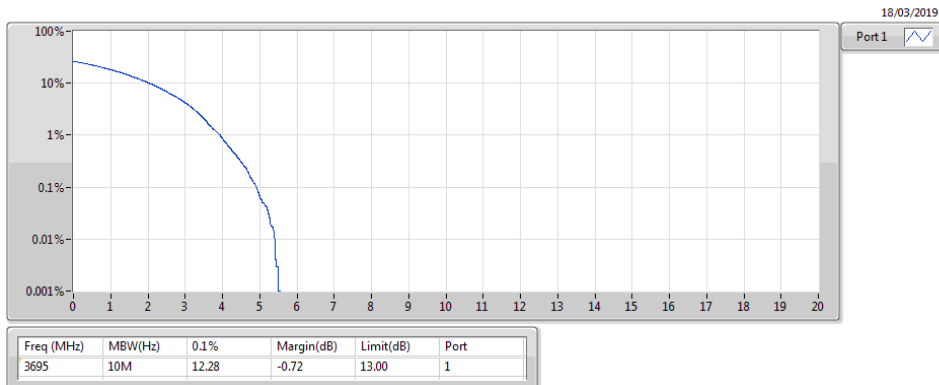
3625MHz_QPSK_RB 50,#RB 0



Band 48_LTE_10MHz_Nss1,QPSK_2TX

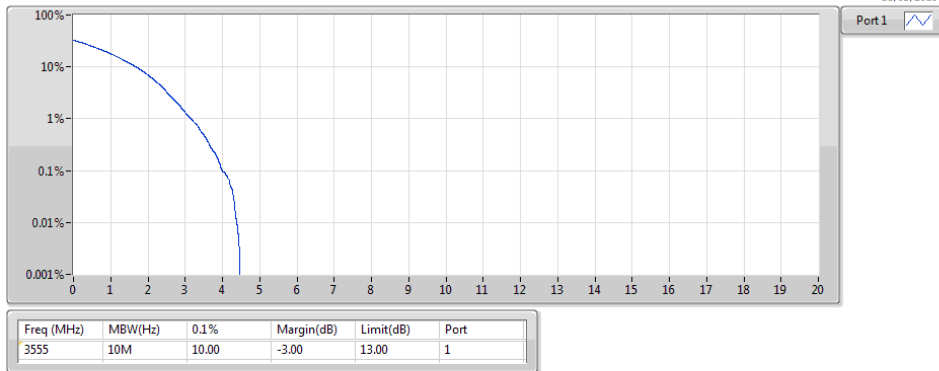
PAR

3695MHz_QPSK_RB 50,#RB 0



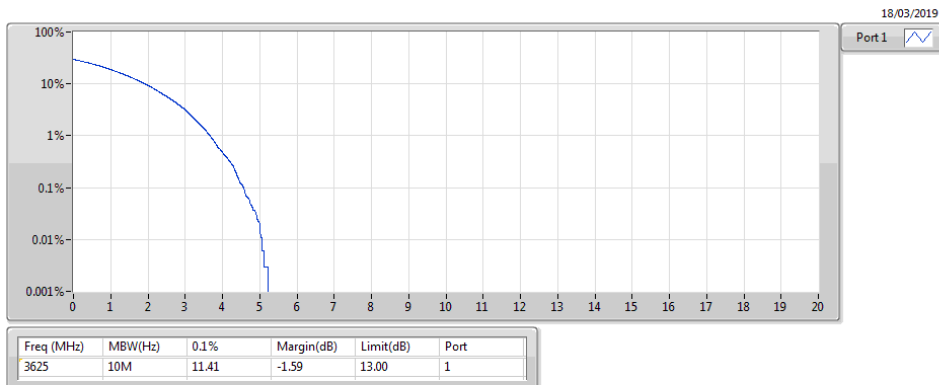
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

PAR



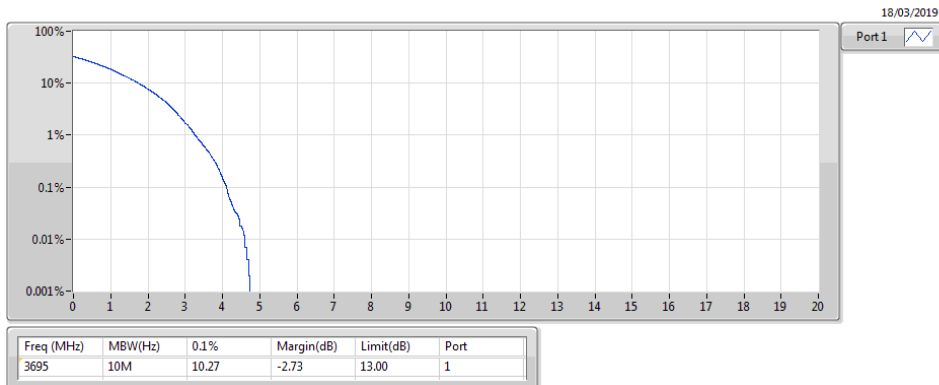
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 50,#RB 0

PAR



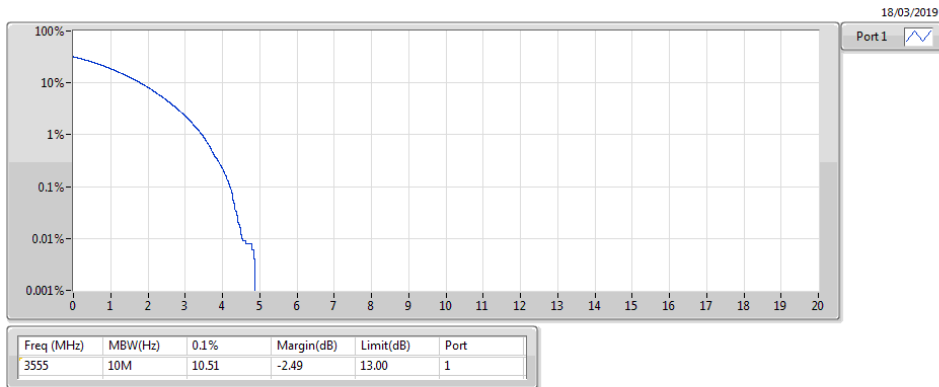
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3695MHz_16QAM_RB 50,#RB 0

PAR



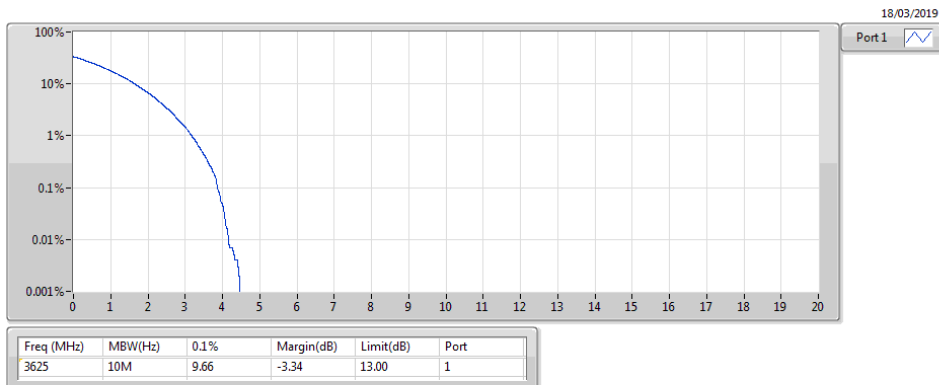
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

PAR



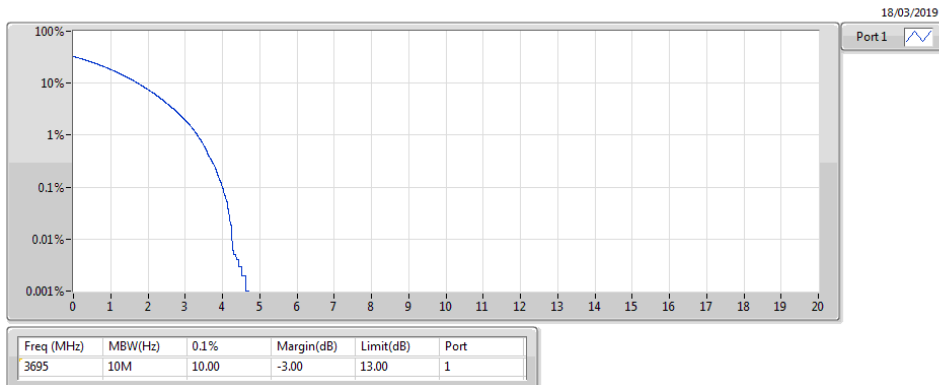
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

PAR



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

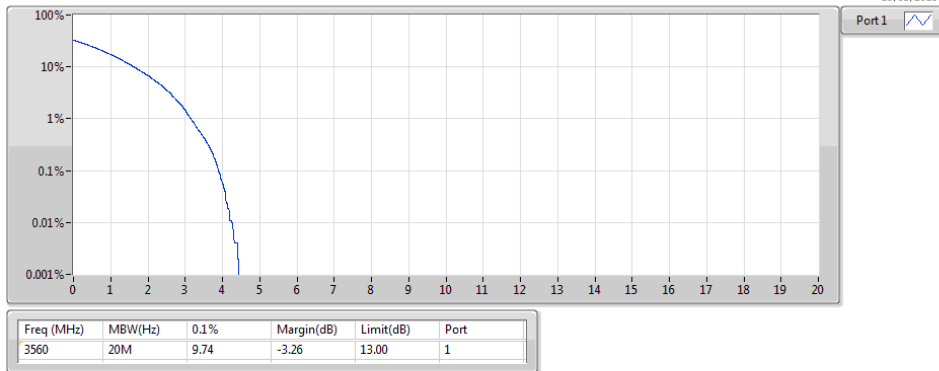
PAR



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

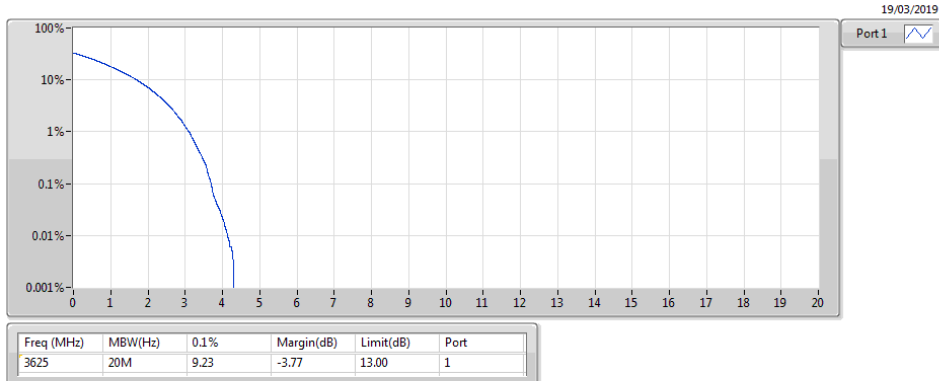
3560MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

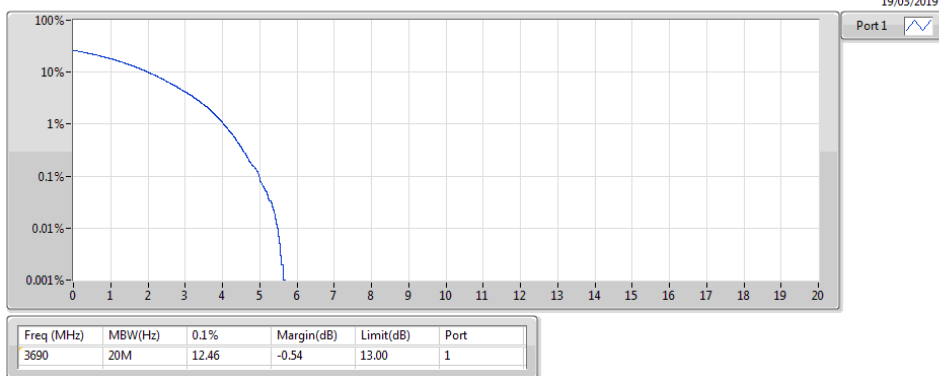
3625MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

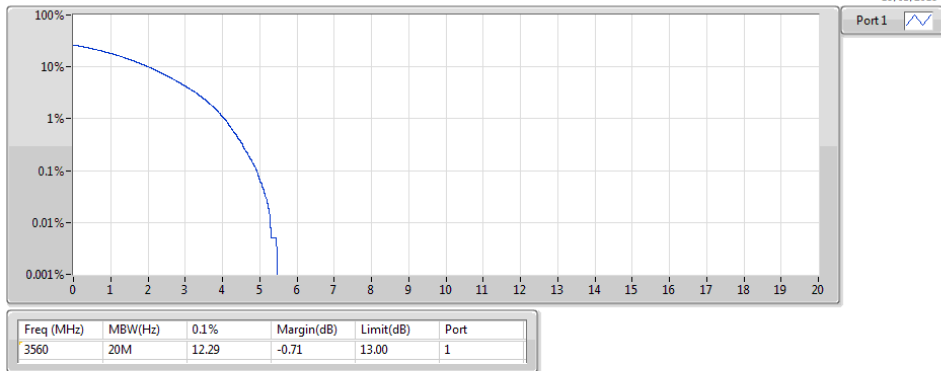
PAR

3690MHz_QPSK_RB 100,#RB 0



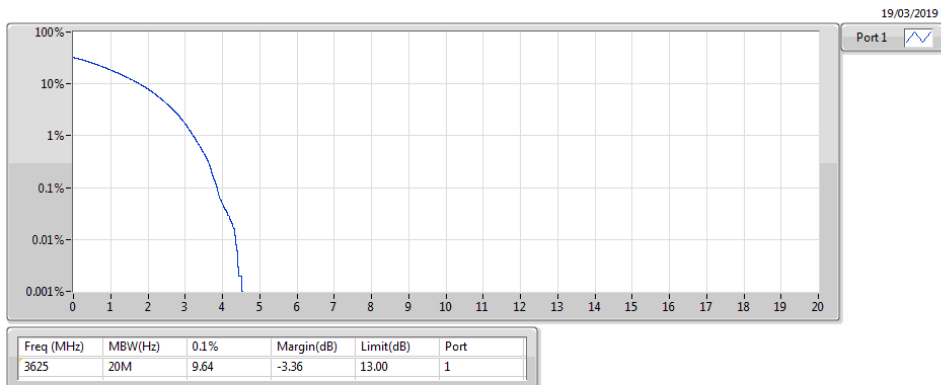
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz_16QAM_RB 100,#RB 0

PAR



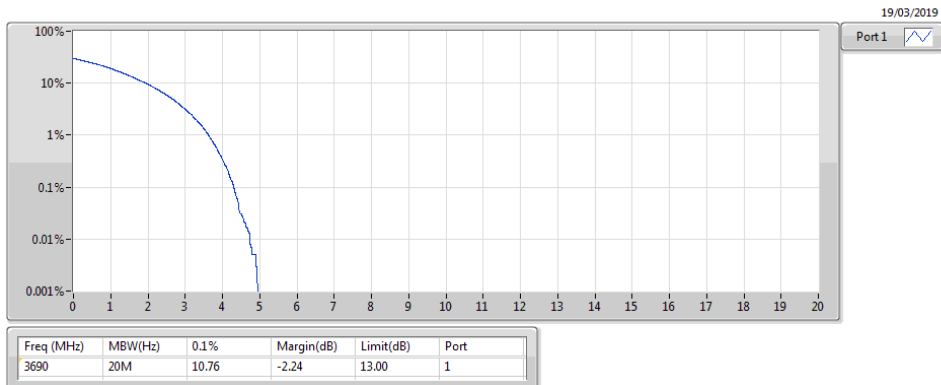
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 100,#RB 0

PAR



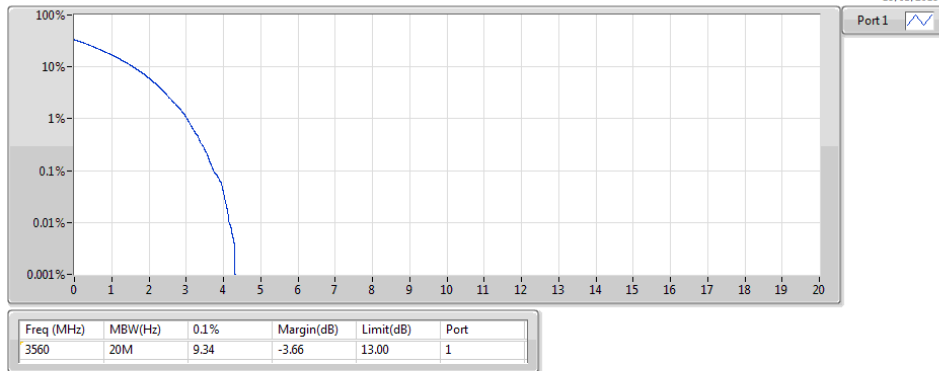
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz_16QAM_RB 100,#RB 0

PAR



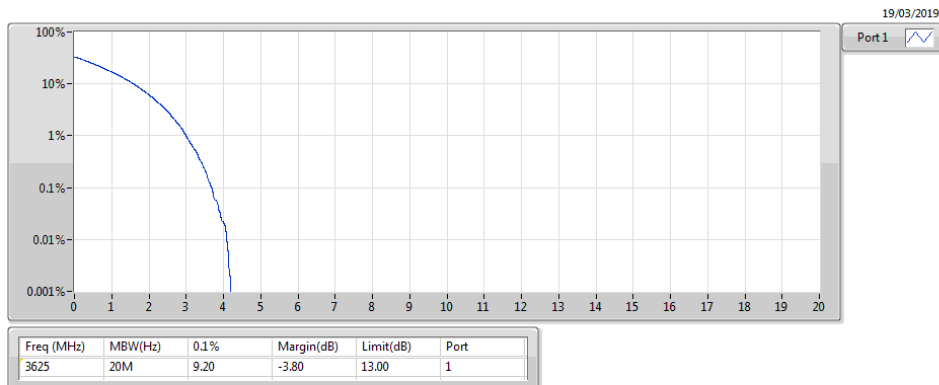
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

PAR



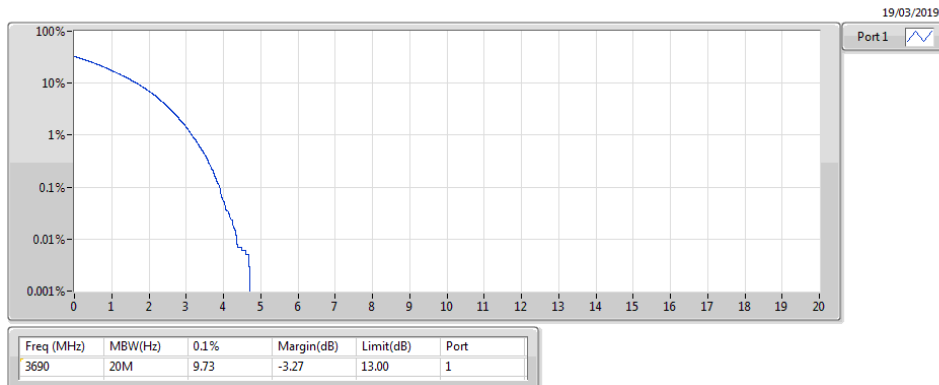
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

PAR



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

PAR



**<Single-carrier>
Summary**

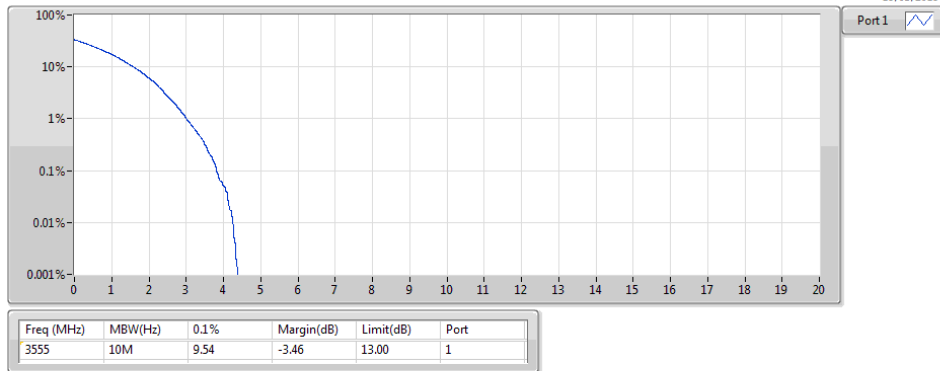
Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_10MHz_QPSK_2TX	Pass	3625	10.51	13.00	2
LTE_10MHz_16QAM_2TX	Pass	3555	11.02	13.00	2
LTE_10MHz_64QAM_2TX	Pass	3555	10.71	13.00	2
LTE_20MHz_QPSK_2TX	Pass	3625	9.92	13.00	2
LTE_20MHz_16QAM_2TX	Pass	3690	9.45	13.00	2
LTE_20MHz_64QAM_2TX	Pass	3625	10.74	13.00	2

Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_10MHz_QPSK_2TX	-	-	-	-	-
3555MHz	Pass	3555	9.54	13.00	2
3625MHz	Pass	3625	10.51	13.00	2
3695MHz	Pass	3695	8.23	13.00	2
LTE_10MHz_16QAM_2TX	-	-	-	-	-
3555MHz	Pass	3555	11.02	13.00	2
3625MHz	Pass	3625	9.81	13.00	2
3695MHz	Pass	3695	11.01	13.00	2
LTE_10MHz_64QAM_2TX	-	-	-	-	-
3555MHz	Pass	3555	10.71	13.00	2
3625MHz	Pass	3625	10.62	13.00	2
3695MHz	Pass	3695	9.62	13.00	2
LTE_20MHz_QPSK_2TX	-	-	-	-	-
3560MHz	Pass	3560	9.62	13.00	2
3625MHz	Pass	3625	9.92	13.00	2
3690MHz	Pass	3690	9.43	13.00	2
LTE_20MHz_16QAM_2TX	-	-	-	-	-
3560MHz	Pass	3560	9.21	13.00	2
3625MHz	Pass	3625	9.04	13.00	2
3690MHz	Pass	3690	9.45	13.00	2
LTE_20MHz_64QAM_2TX	-	-	-	-	-
3560MHz	Pass	3560	9.20	13.00	2
3625MHz	Pass	3625	10.74	13.00	2
3690MHz	Pass	3690	9.80	13.00	2

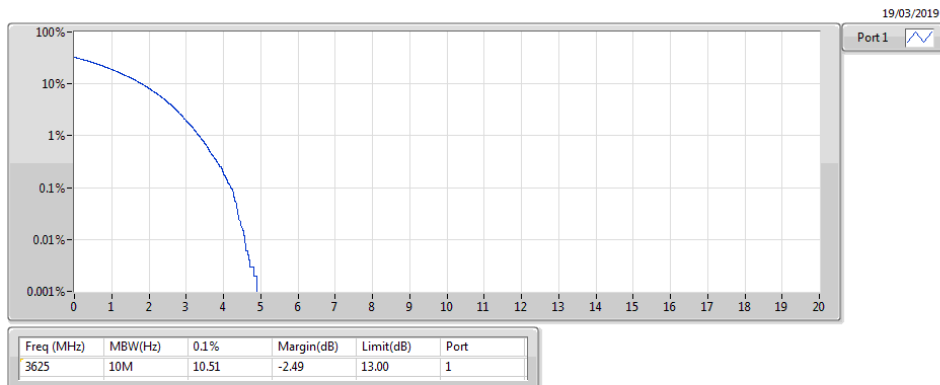
Band 48_LTE_10MHz_Nss1,QPSK_2TX 3555MHz_QPSK_RB 50,#RB 0

PAR



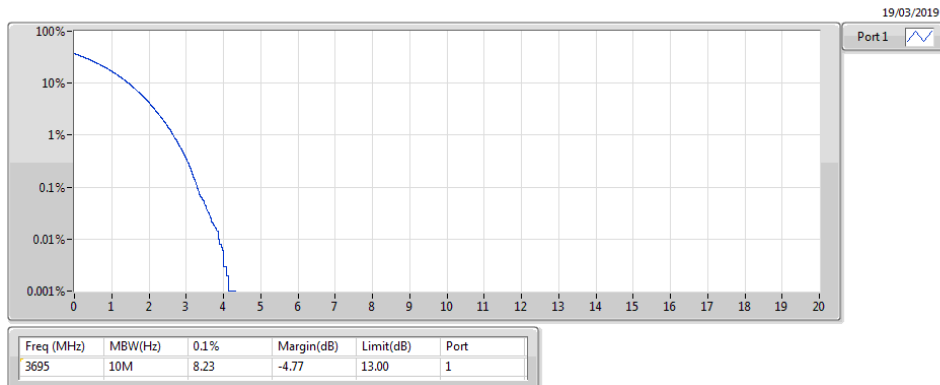
Band 48_LTE_10MHz_Nss1,QPSK_2TX 3625MHz_QPSK_RB 50,#RB 0

PAR



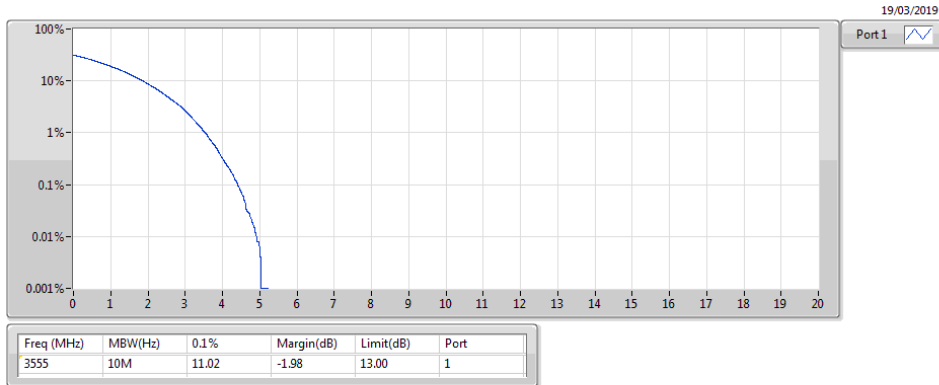
Band 48_LTE_10MHz_Nss1,QPSK_2TX 3695MHz_QPSK_RB 50,#RB 0

PAR



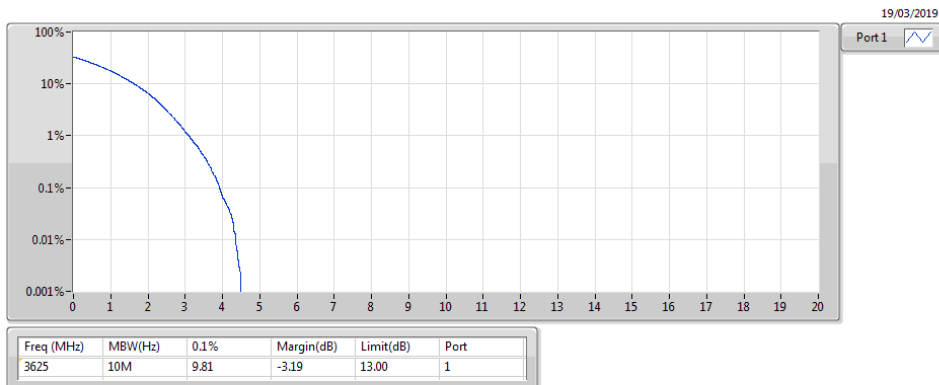
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3555MHz_16QAM_RB 50,#RB 0

PAR



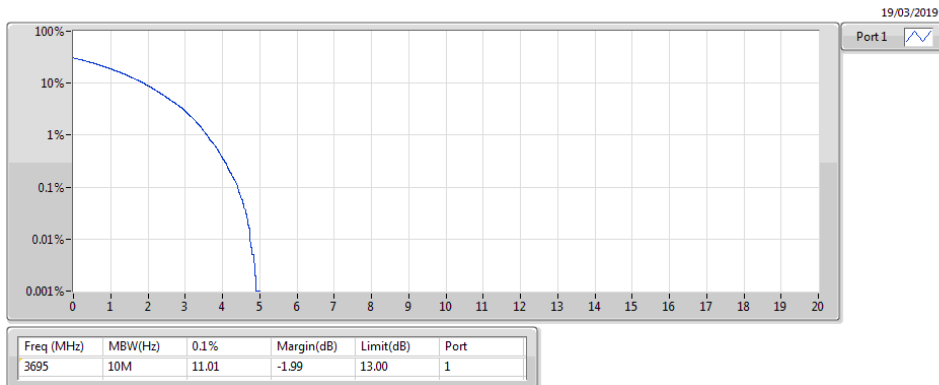
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 50,#RB 0

PAR



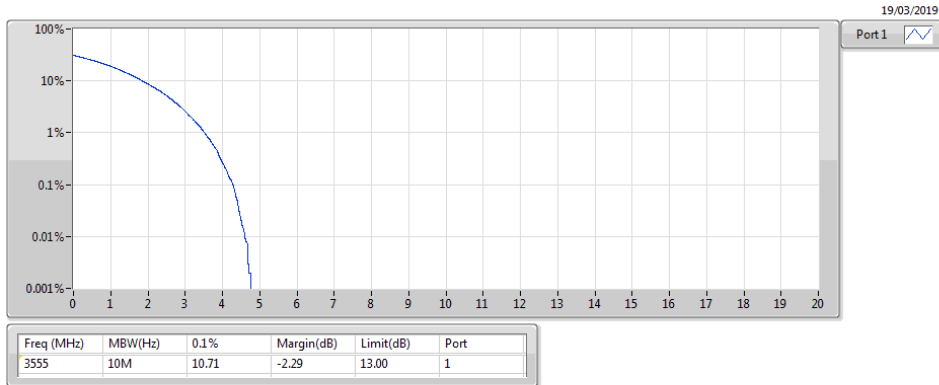
Band 48_LTE_10MHz_Nss1,16QAM_2TX
3695MHz_16QAM_RB 50,#RB 0

PAR



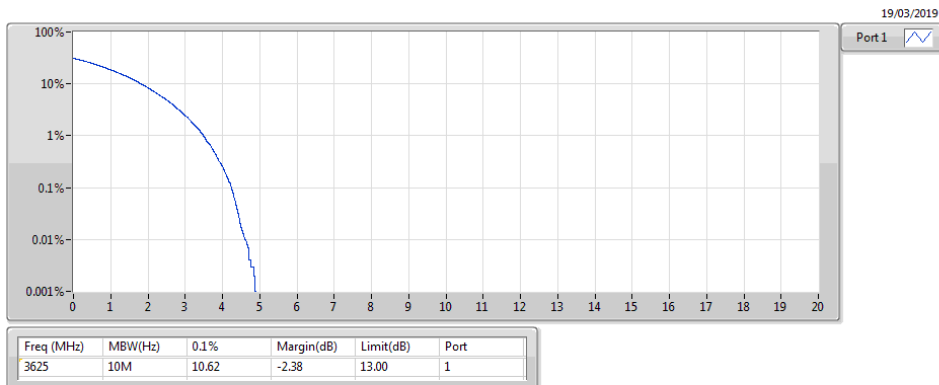
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3555MHz_64QAM_RB 50,#RB 0

PAR



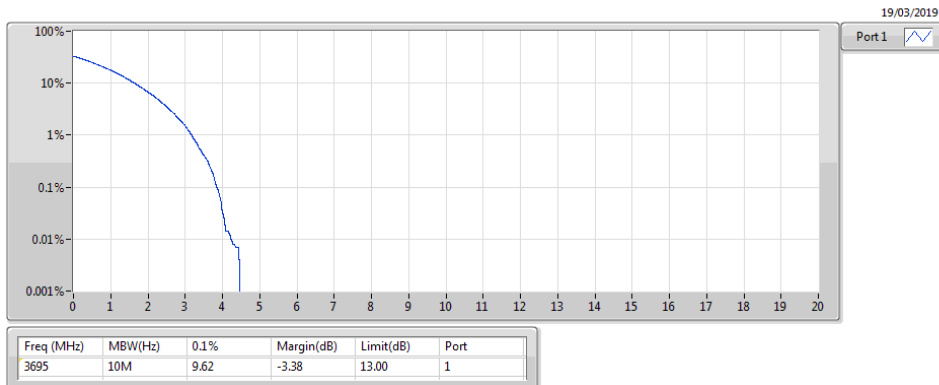
Band 48_LTE_10MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 50,#RB 0

PAR



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

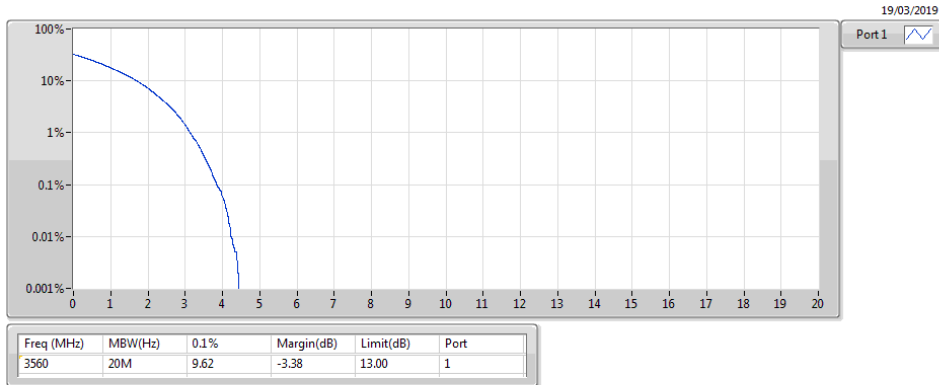
PAR



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

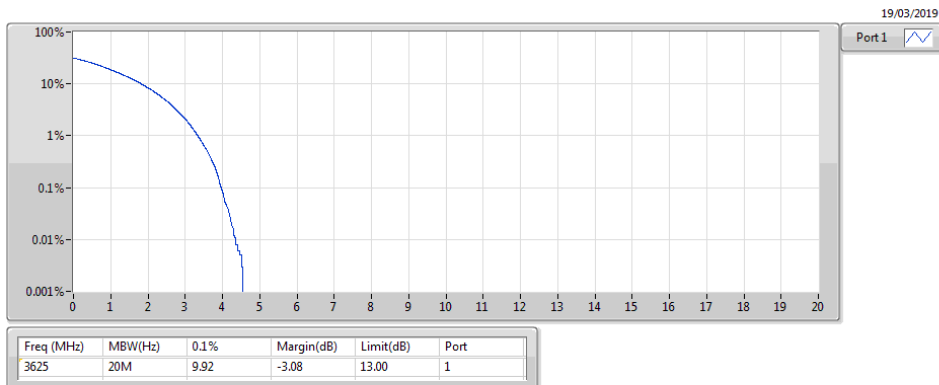
3560MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

PAR

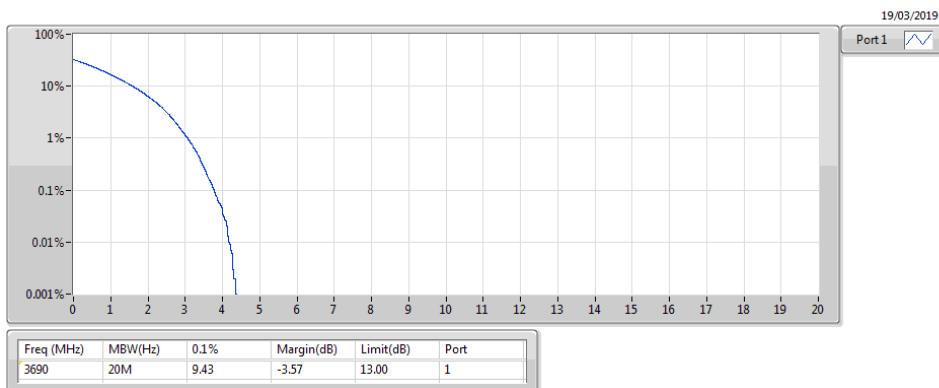
3625MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

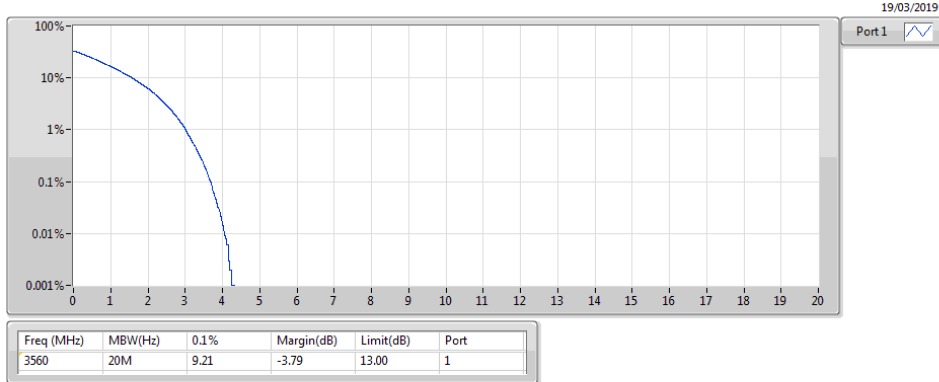
PAR

3690MHz_QPSK_RB 100,#RB 0



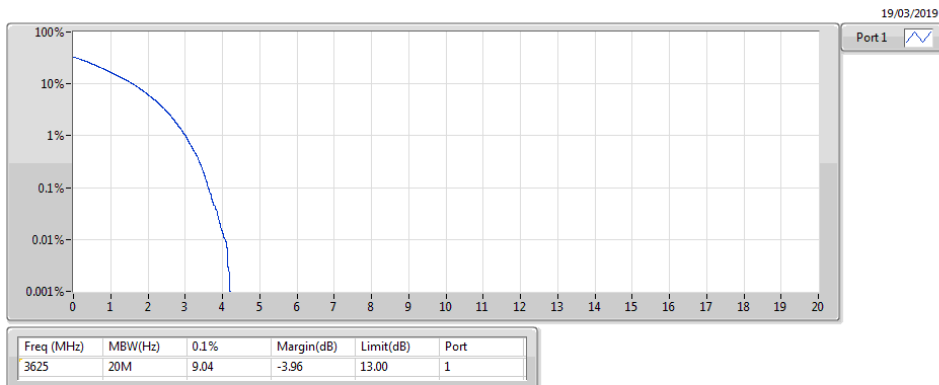
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz_16QAM_RB 100,#RB 0

PAR



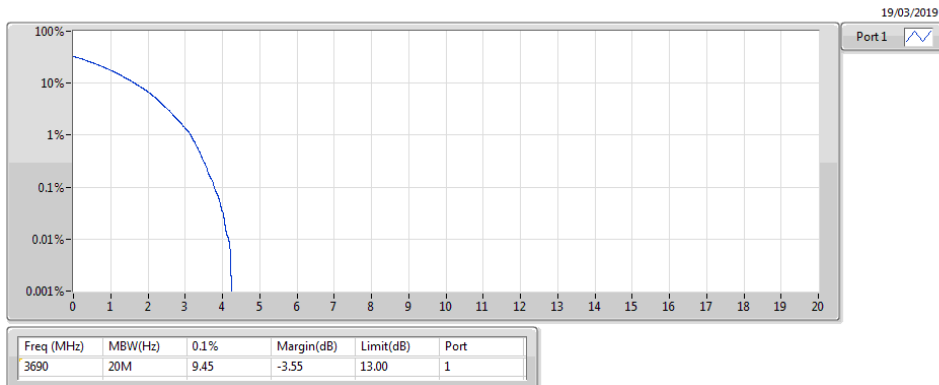
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz_16QAM_RB 100,#RB 0

PAR



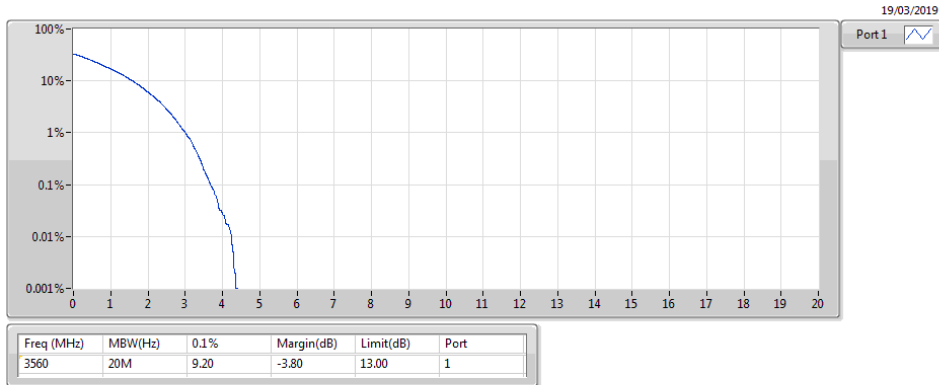
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz_16QAM_RB 100,#RB 0

PAR



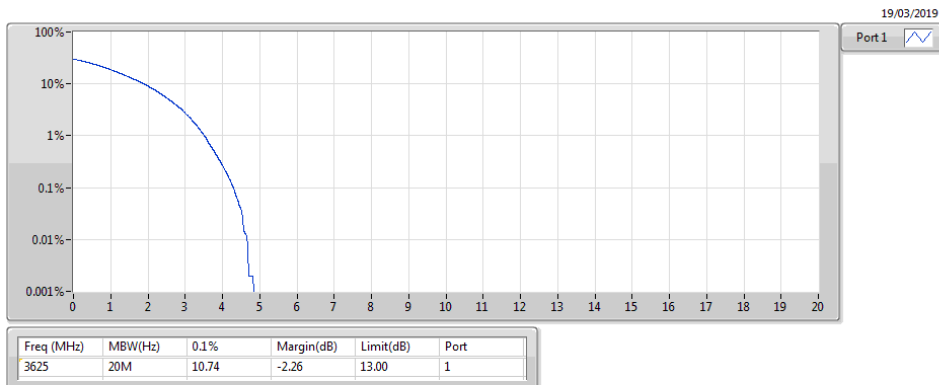
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3560MHz_64QAM_RB 100,#RB 0

PAR



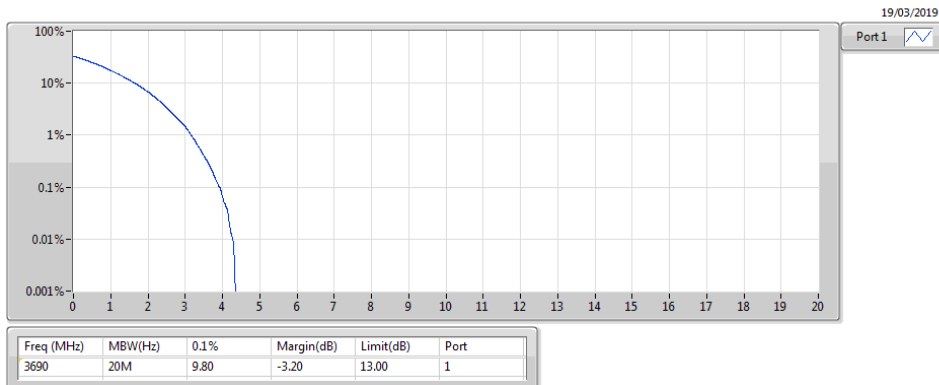
Band 48_LTE_20MHz_Nss1,64QAM_2TX
3625MHz_64QAM_RB 100,#RB 0

PAR



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

PAR



**<Multi-carrier and/or CA>
Summary**

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	Pass	3560	9.67	13.00	1
LTE_20MHz+20MHz_16QAM_4TX	Pass	3615	10.39	13.00	1
LTE_20MHz+20MHz_64QAM_4TX	Pass	3670	11.02	13.00	1

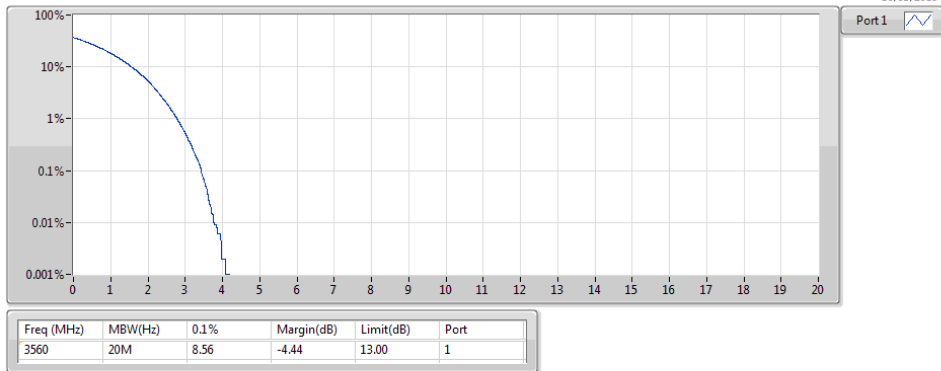
Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	8.56	13.00	1
P#3615MHz,#3635MHz	Pass	3615	8.28	13.00	1
P#3670MHz,#3690MHz	Pass	3670	8.03	13.00	1
P#3560MHz,#3690MHz	Pass	3560	9.67	13.00	1
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	8.36	13.00	1
P#3615MHz,#3635MHz	Pass	3615	10.39	13.00	1
P#3670MHz,#3690MHz	Pass	3670	10.29	13.00	1
P#3560MHz,#3690MHz	Pass	3560	8.64	13.00	1
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	8.79	13.00	1
P#3615MHz,#3635MHz	Pass	3615	8.42	13.00	1
P#3670MHz,#3690MHz	Pass	3670	11.02	13.00	1
P#3560MHz,#3690MHz	Pass	3560	9.21	13.00	1

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

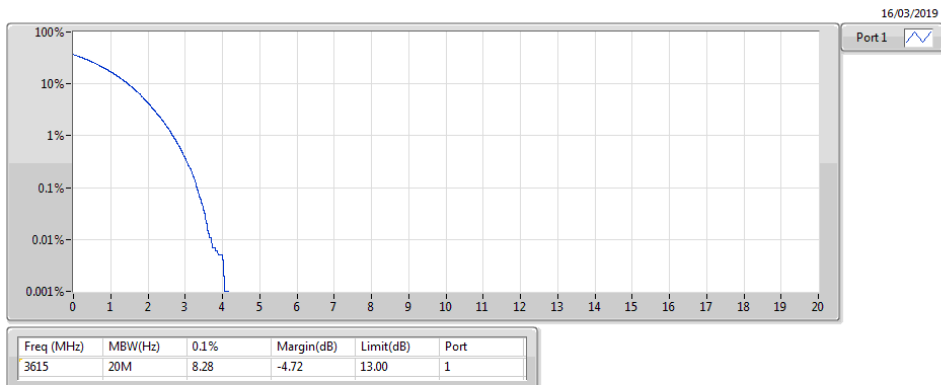
P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

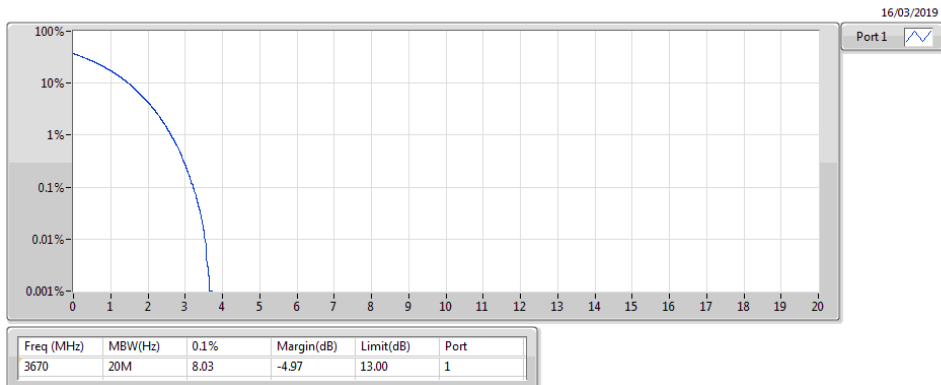
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

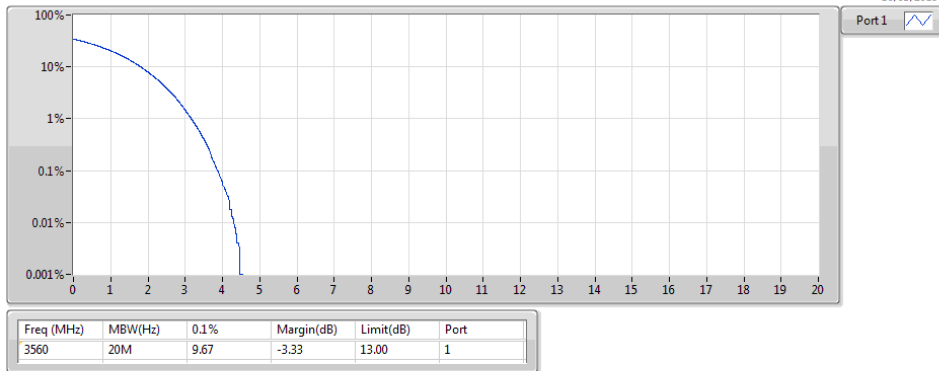
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

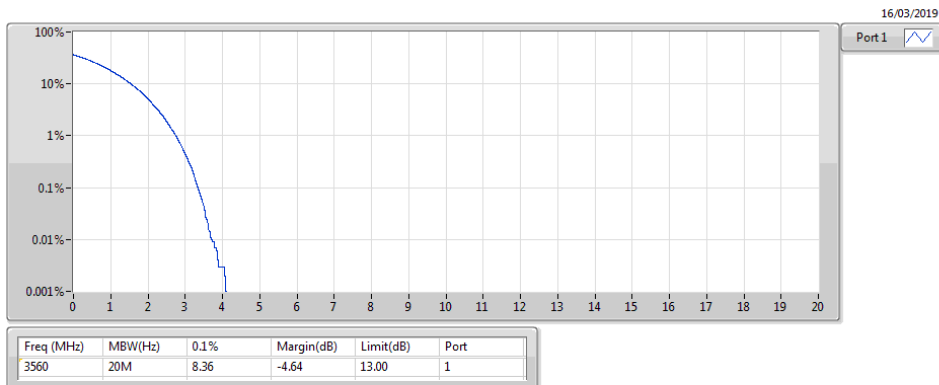
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

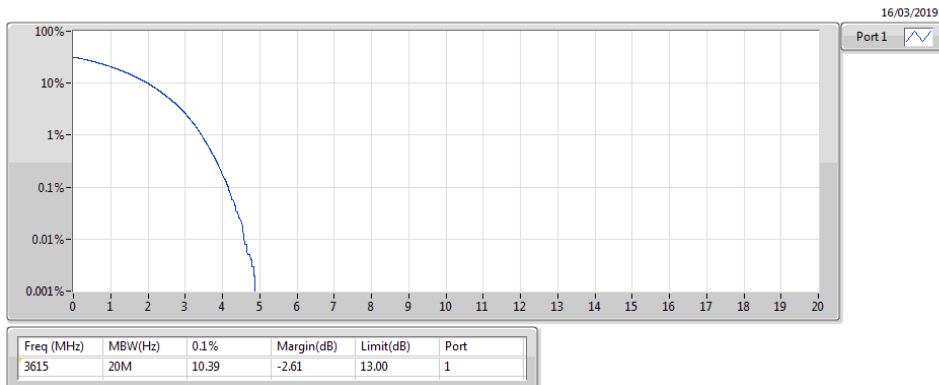
P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

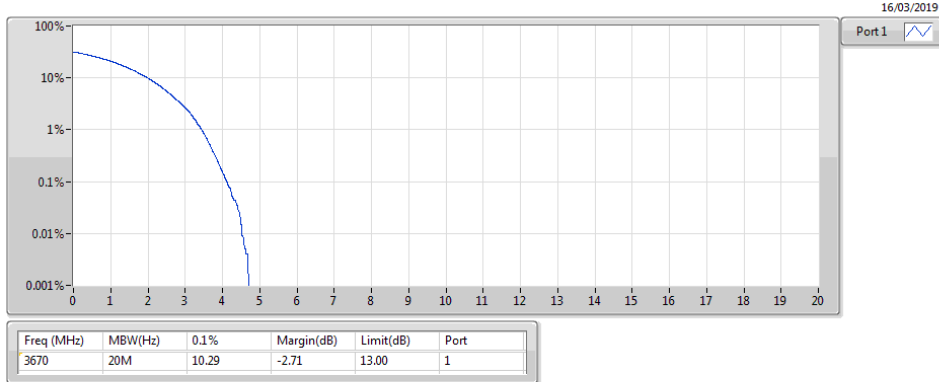
P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

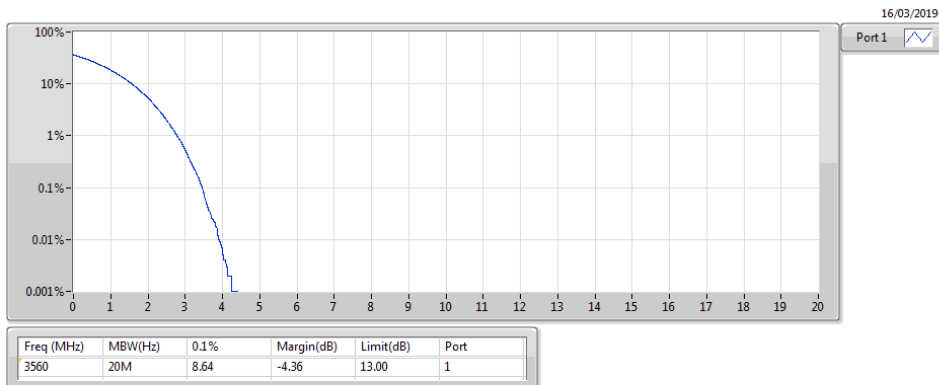
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

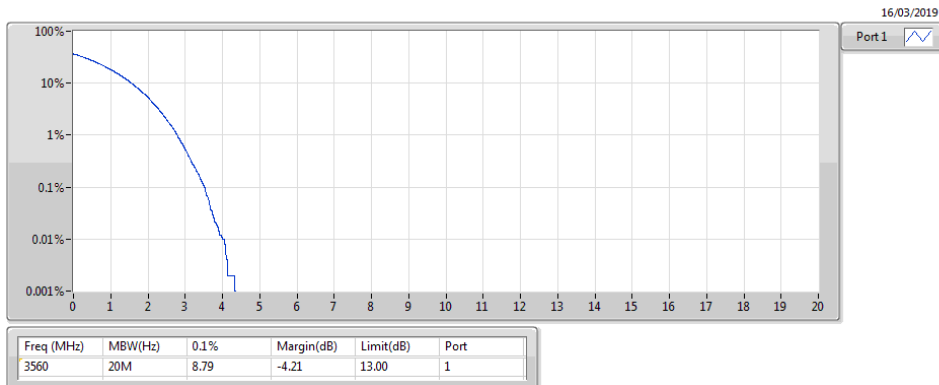
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

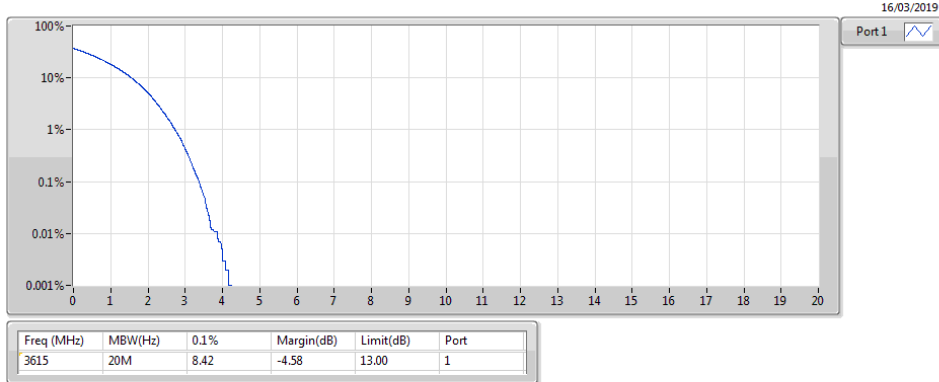
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

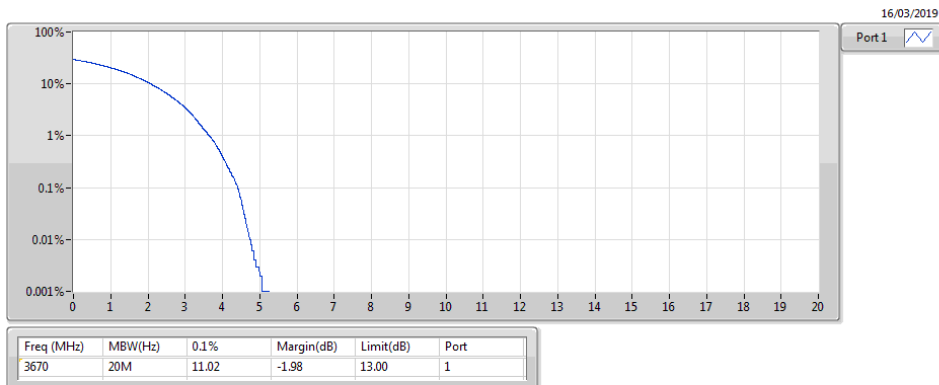
P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

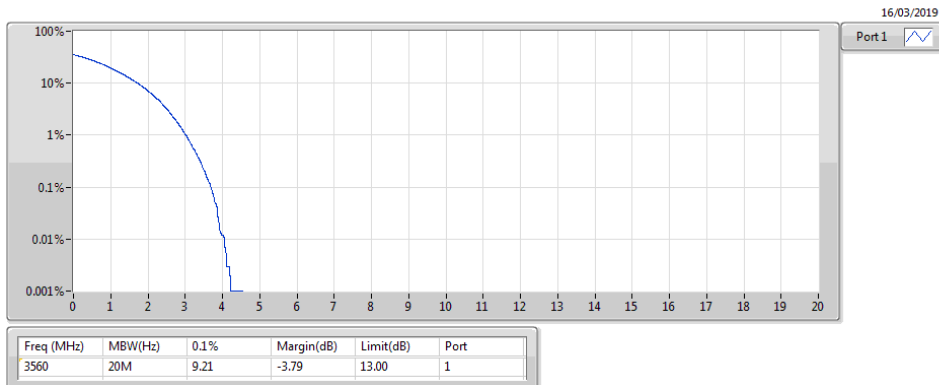
P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

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



**<Multi-carrier and/or CA>
Summary**

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	Pass	3560	11.35	13.00	2
LTE_20MHz+20MHz_16QAM_4TX	Pass	3670	11.11	13.00	2
LTE_20MHz+20MHz_64QAM_4TX	Pass	3560	11.14	13.00	2

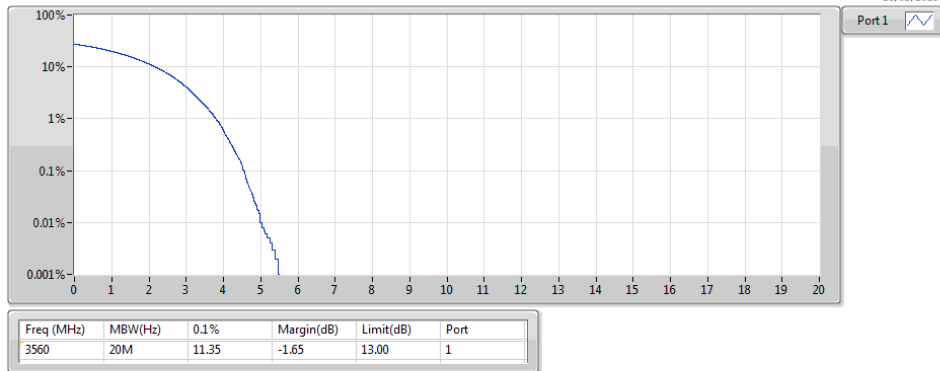
Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	11.35	13.00	2
P#3615MHz,#3635MHz	Pass	3615	8.12	13.00	2
P#3670MHz,#3690MHz	Pass	3670	8.23	13.00	2
P#3560MHz,#3690MHz	Pass	3560	8.44	13.00	2
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	8.02	13.00	2
P#3615MHz,#3635MHz	Pass	3615	10.48	13.00	2
P#3670MHz,#3690MHz	Pass	3670	11.11	13.00	2
P#3560MHz,#3690MHz	Pass	3560	11.03	13.00	2
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3560	8.35	13.00	2
P#3615MHz,#3635MHz	Pass	3615	11.12	13.00	2
P#3670MHz,#3690MHz	Pass	3670	10.38	13.00	2
P#3560MHz,#3690MHz	Pass	3560	11.14	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

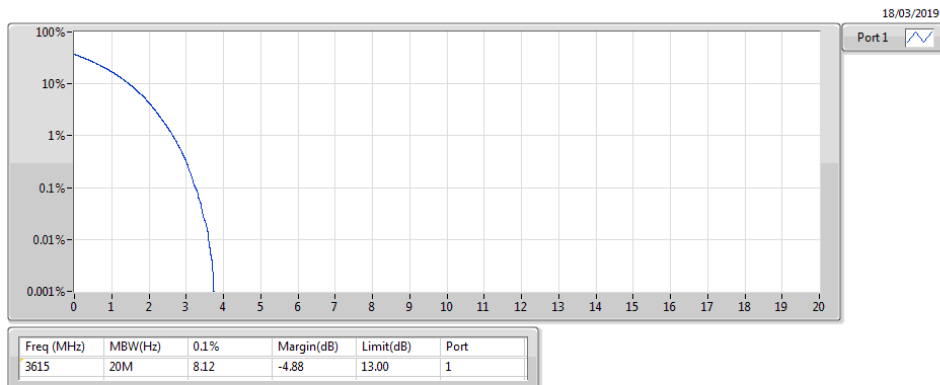
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

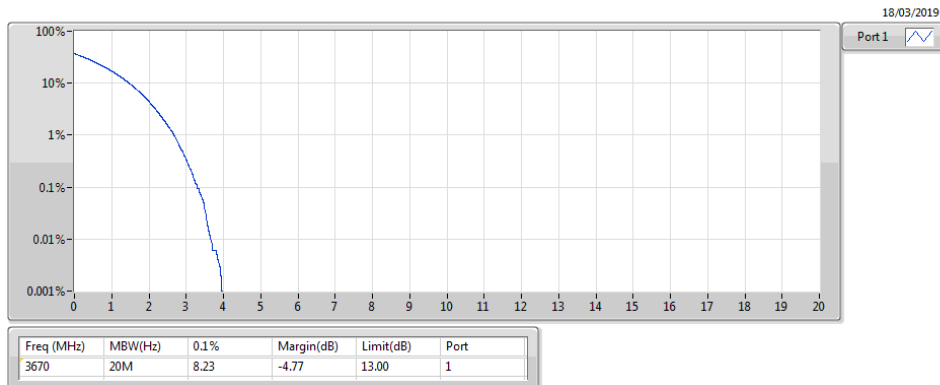
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

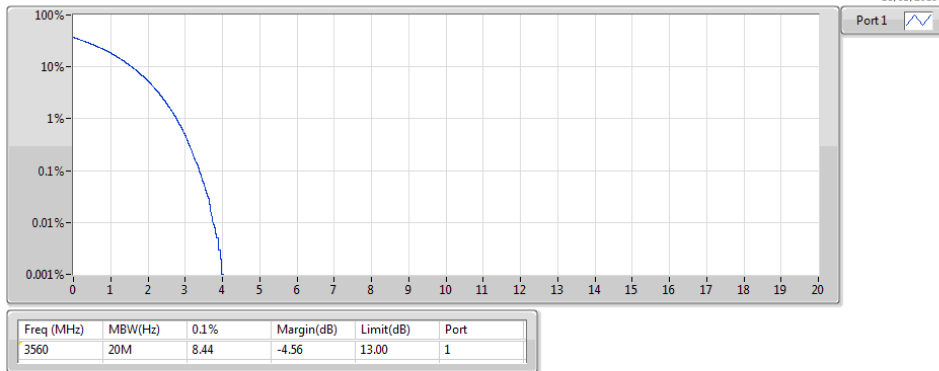
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

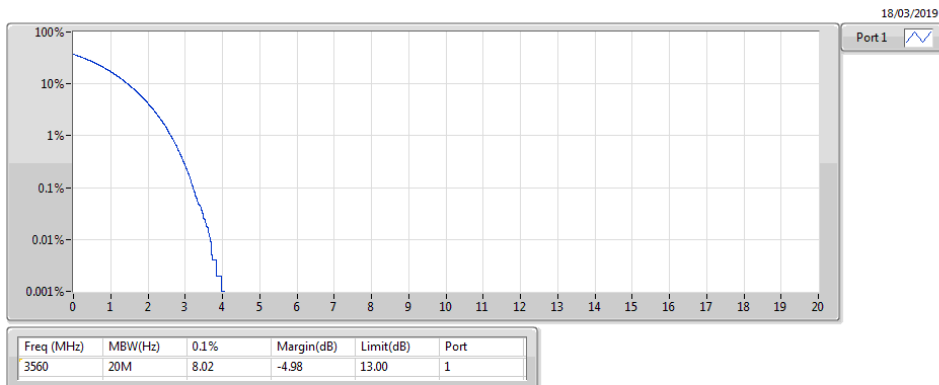
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

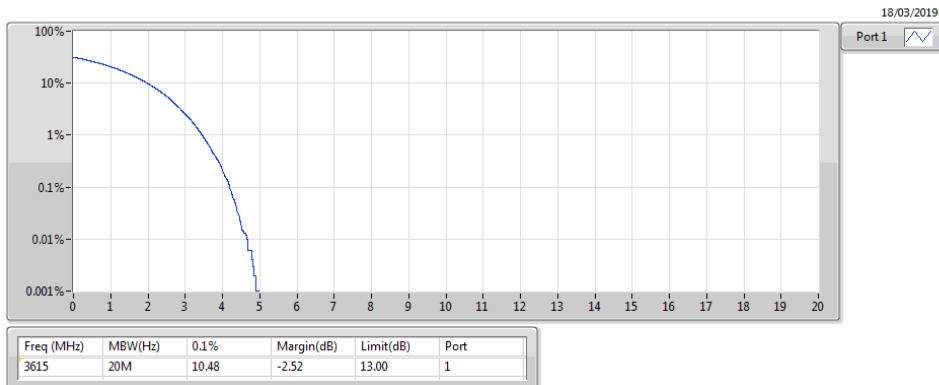
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

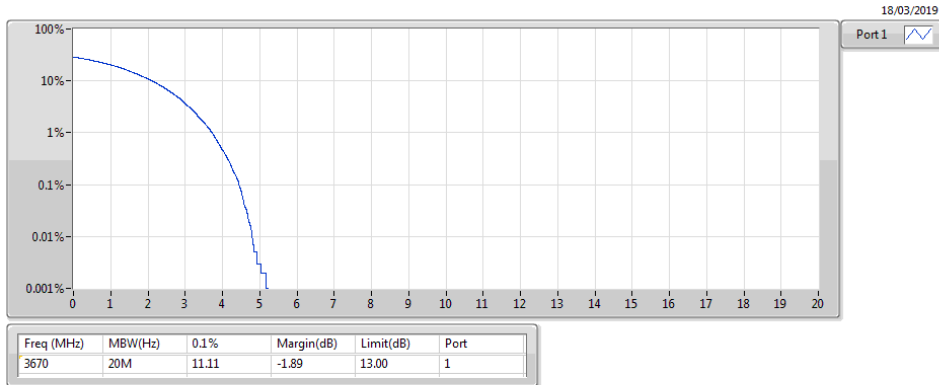
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

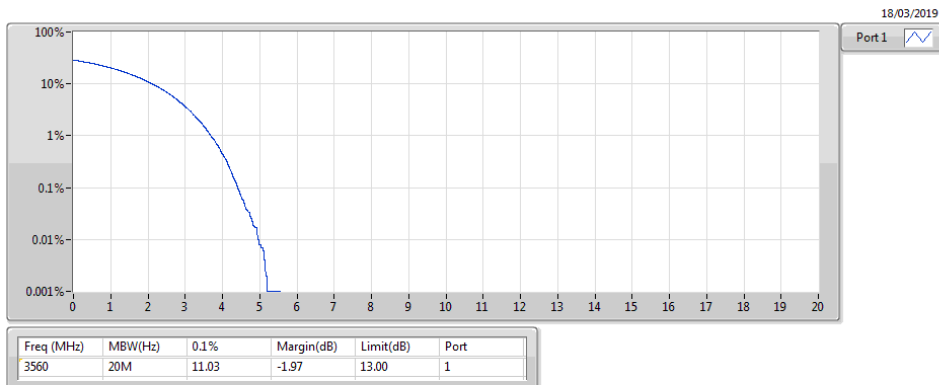
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

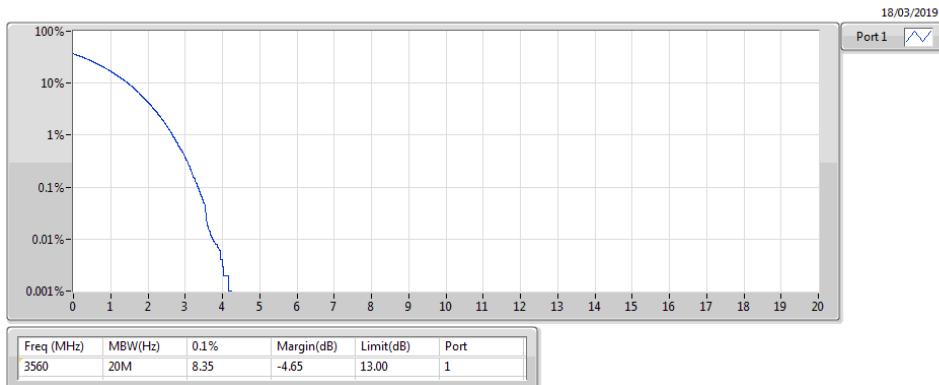
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

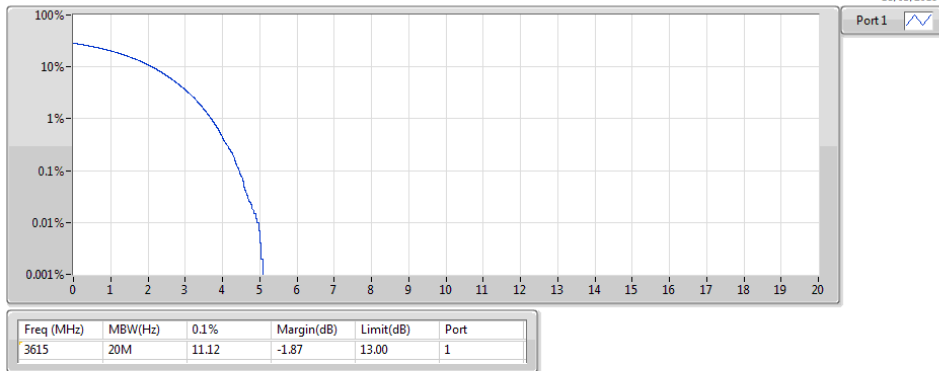
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

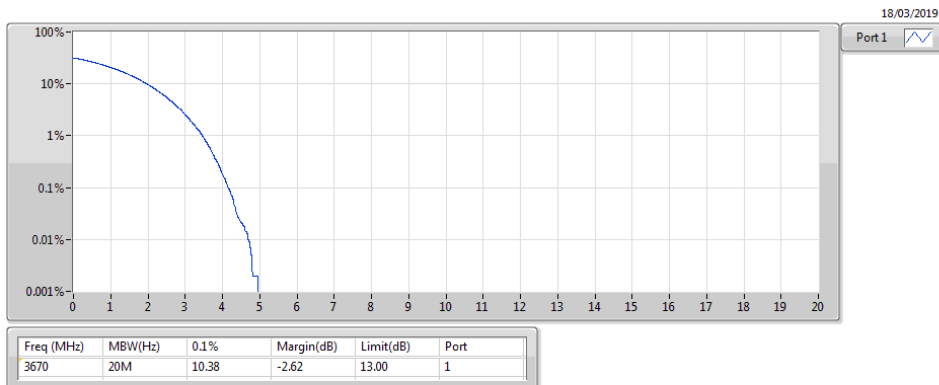
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

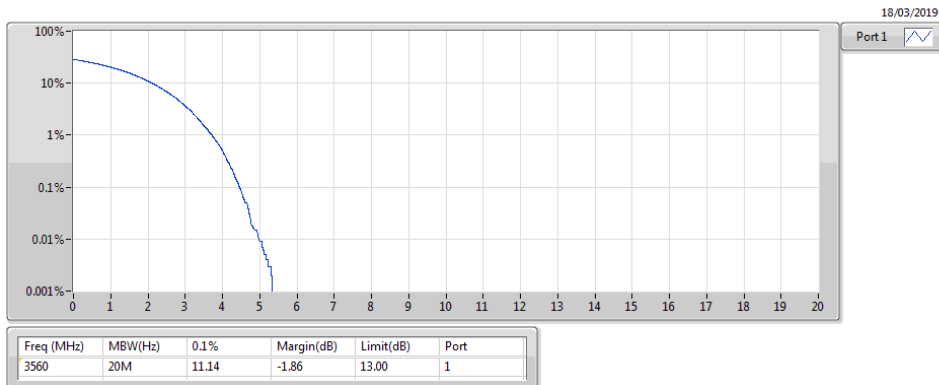
P#3670MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

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



**<Multi-carrier and/or CA>
Summary**

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	Pass	3580	10.60	13.00	3
LTE_20MHz+20MHz_16QAM_4TX	Pass	3635	10.77	13.00	3
LTE_20MHz+20MHz_64QAM_4TX	Pass	3635	11.30	13.00	3

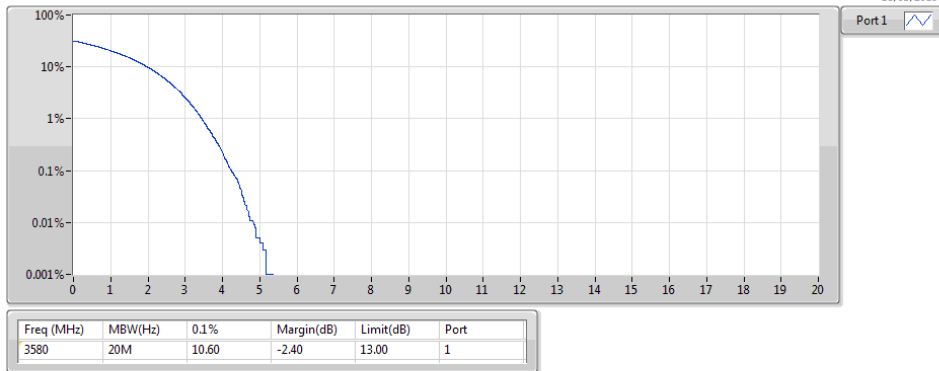
Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	10.60	13.00	3
P#3615MHz,#3635MHz	Pass	3635	8.38	13.00	3
P#3670MHz,#3690MHz	Pass	3690	8.59	13.00	3
P#3560MHz,#3690MHz	Pass	3690	9.07	13.00	3
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	8.67	13.00	3
P#3615MHz,#3635MHz	Pass	3635	10.77	13.00	3
P#3670MHz,#3690MHz	Pass	3690	9.54	13.00	3
P#3560MHz,#3690MHz	Pass	3690	9.44	13.00	3
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	10.39	13.00	3
P#3615MHz,#3635MHz	Pass	3635	11.30	13.00	3
P#3670MHz,#3690MHz	Pass	3690	8.20	13.00	3
P#3560MHz,#3690MHz	Pass	3690	8.62	13.00	3

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

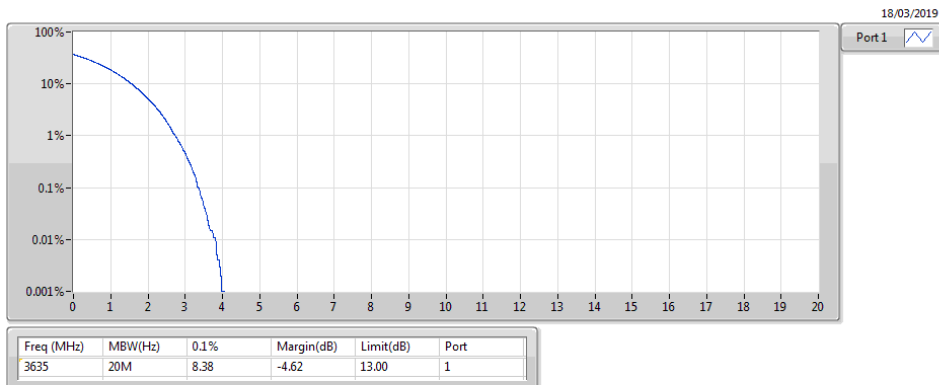
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

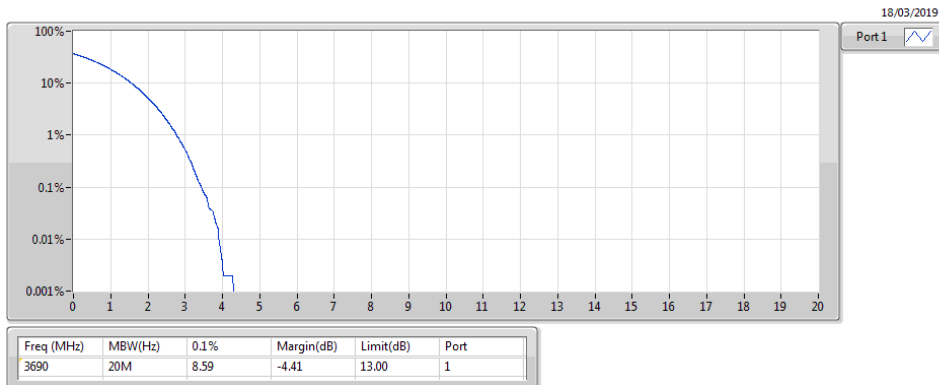
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

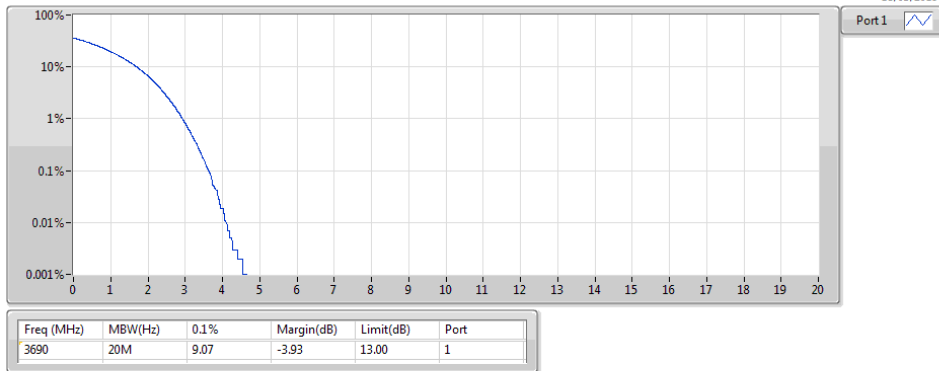
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

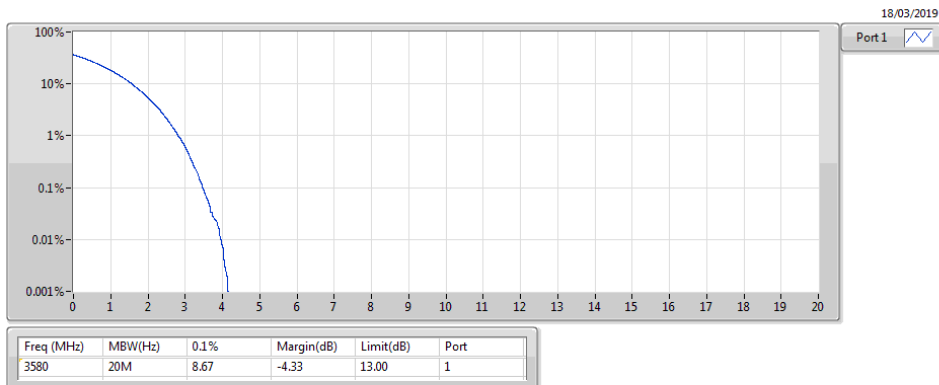
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

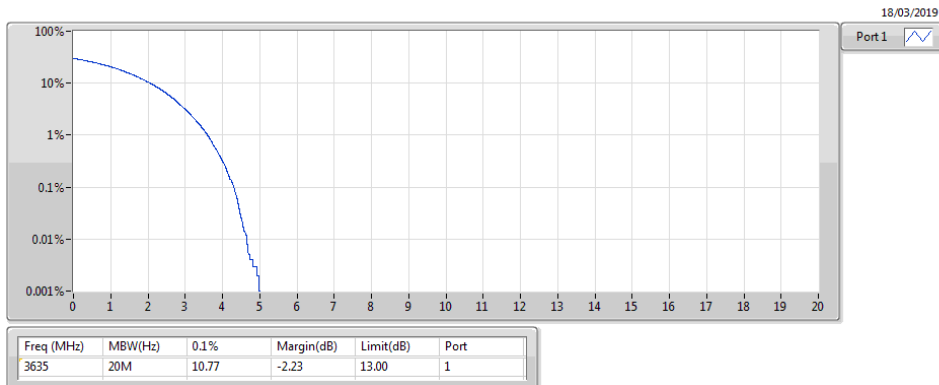
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

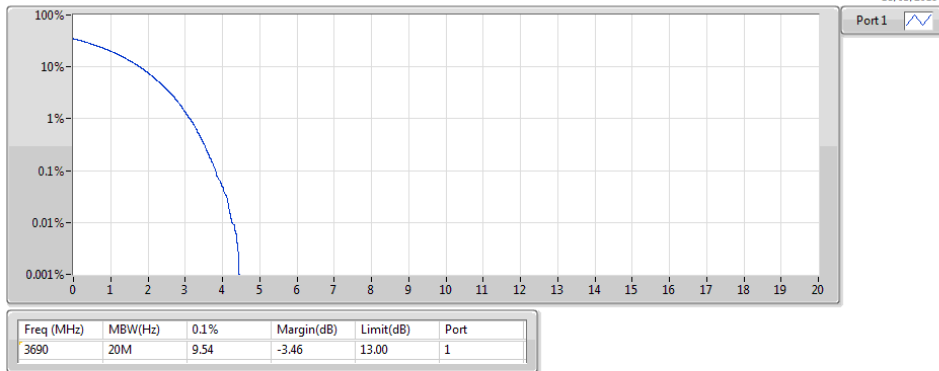
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

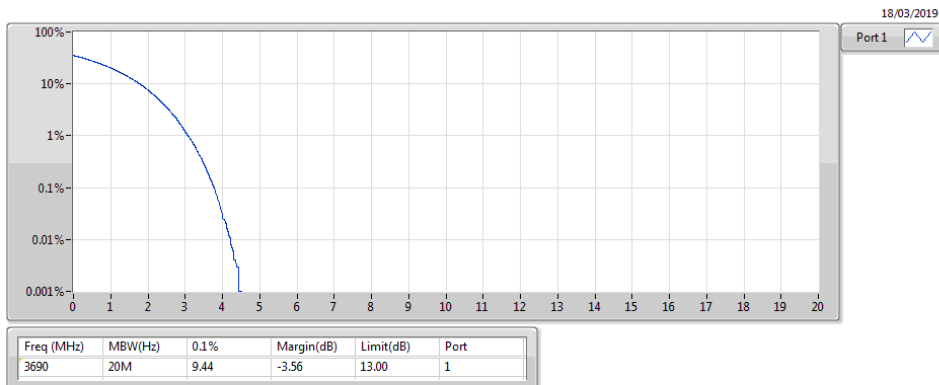
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

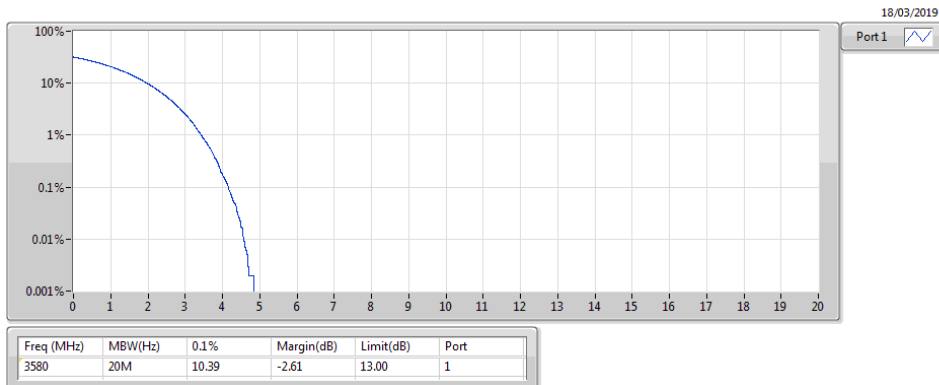
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

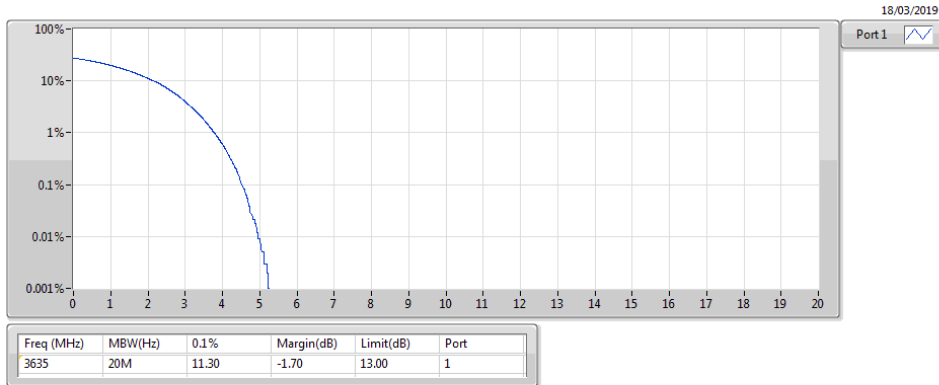
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

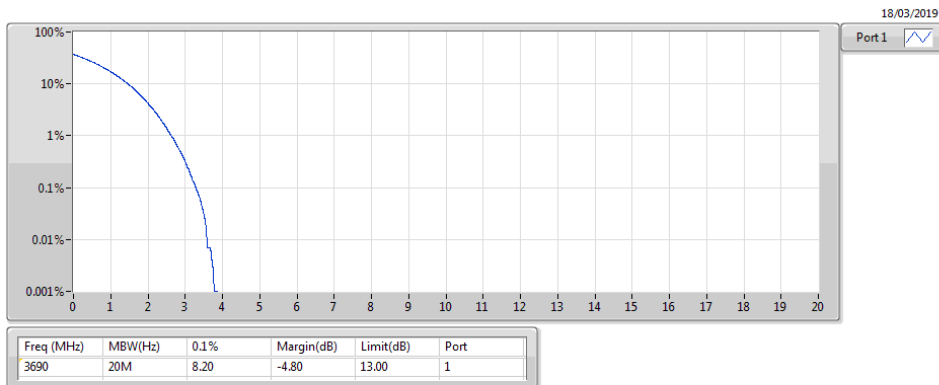
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

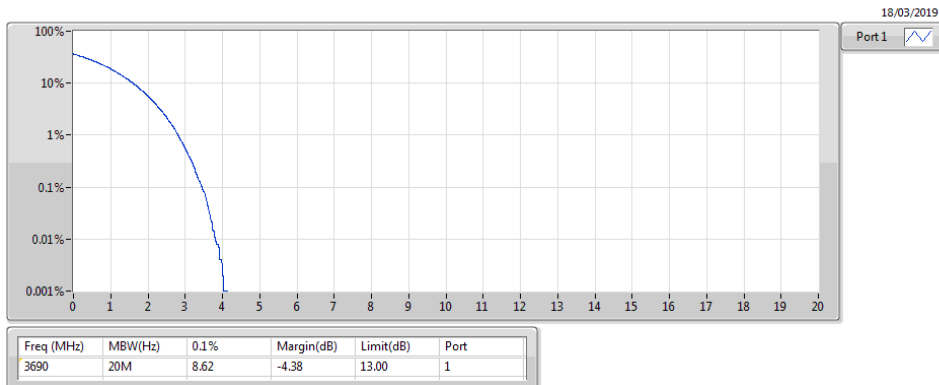
P#3690MHz,#3670MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

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



<Multi-carrier and/or CA>
Summary

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
Band 48	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	Pass	3690	9.93	13.00	4
LTE_20MHz+20MHz_16QAM_4TX	Pass	3690	9.18	13.00	4
LTE_20MHz+20MHz_64QAM_4TX	Pass	3690	9.12	13.00	4

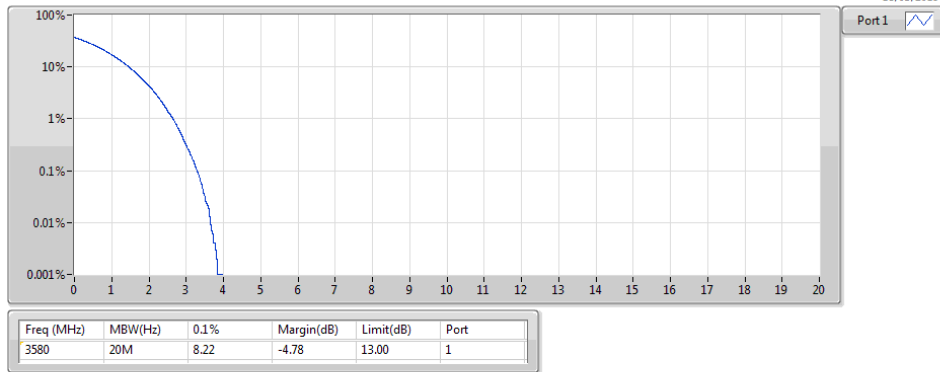
Result

Mode	Result	Freq (MHz)	0.1%	Limit (dB)	Port
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	8.22	13.00	4
P#3615MHz,#3635MHz	Pass	3635	9.56	13.00	4
P#3670MHz,#3690MHz	Pass	3690	8.22	13.00	4
P#3560MHz,#3690MHz	Pass	3690	9.93	13.00	4
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	8.56	13.00	4
P#3615MHz,#3635MHz	Pass	3635	8.23	13.00	4
P#3670MHz,#3690MHz	Pass	3690	9.18	13.00	4
P#3560MHz,#3690MHz	Pass	3690	8.13	13.00	4
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	3580	8.18	13.00	4
P#3615MHz,#3635MHz	Pass	3635	8.24	13.00	4
P#3670MHz,#3690MHz	Pass	3690	9.12	13.00	4
P#3560MHz,#3690MHz	Pass	3690	8.20	13.00	4

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

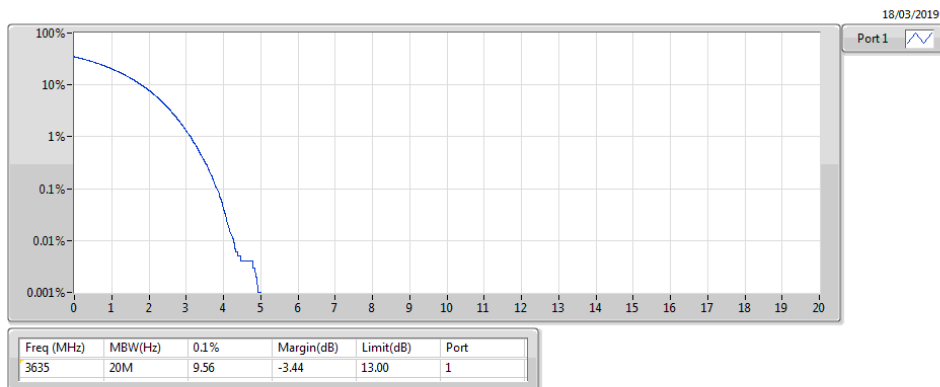
P#3580MHz,#3560MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

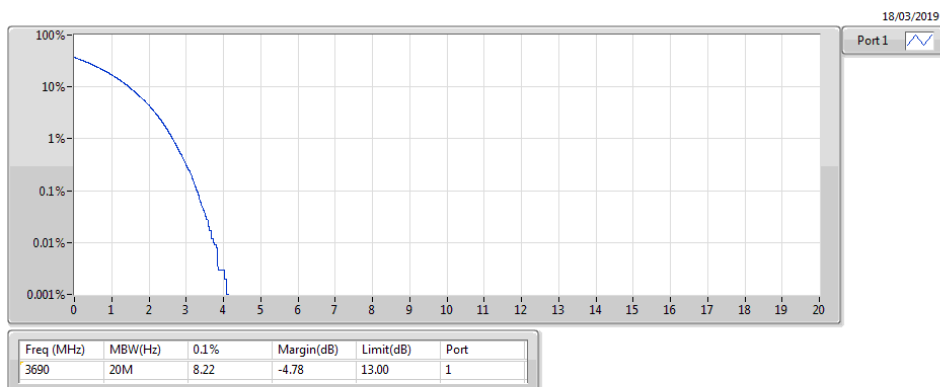
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

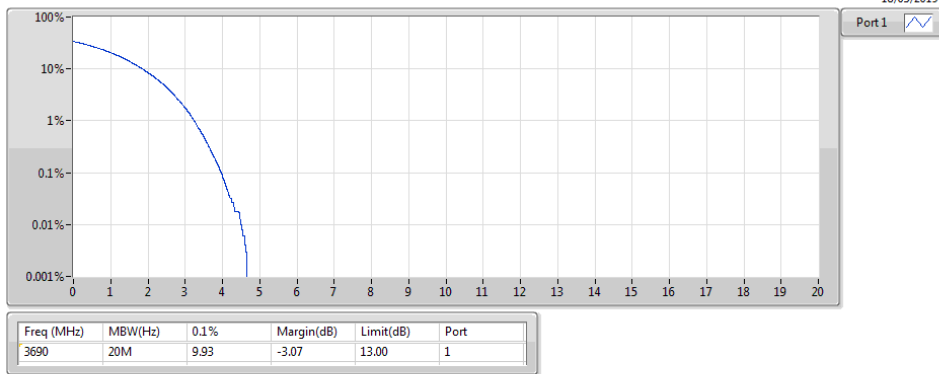
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Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX

PAR

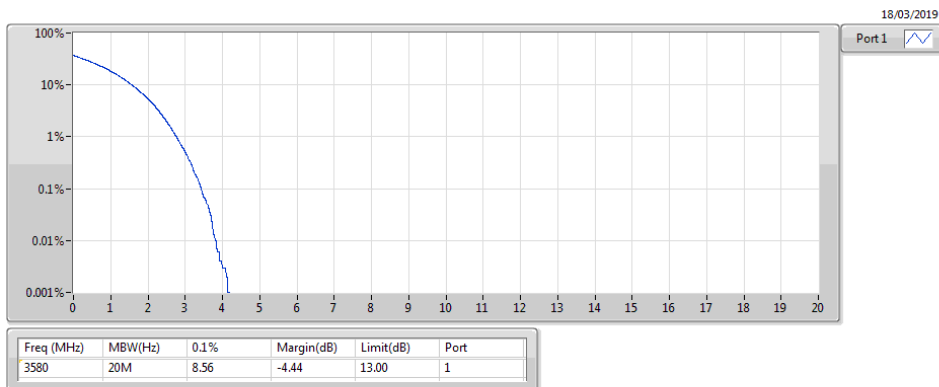
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

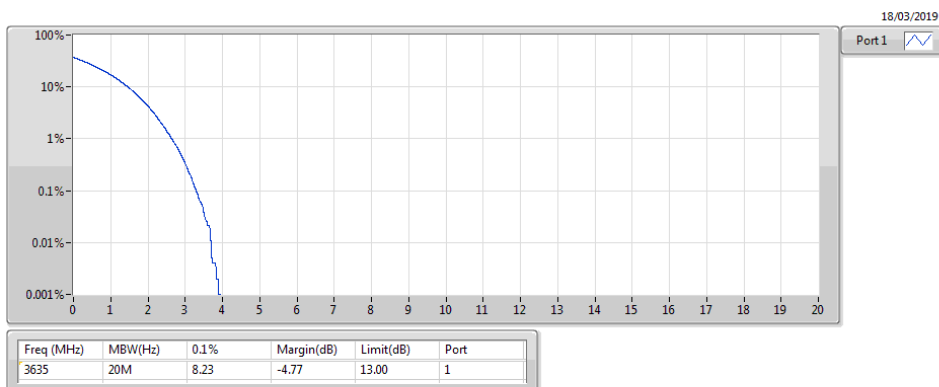
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

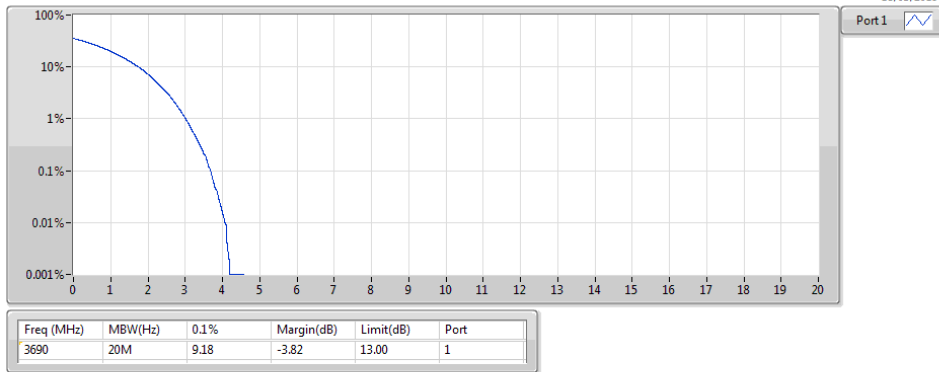
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

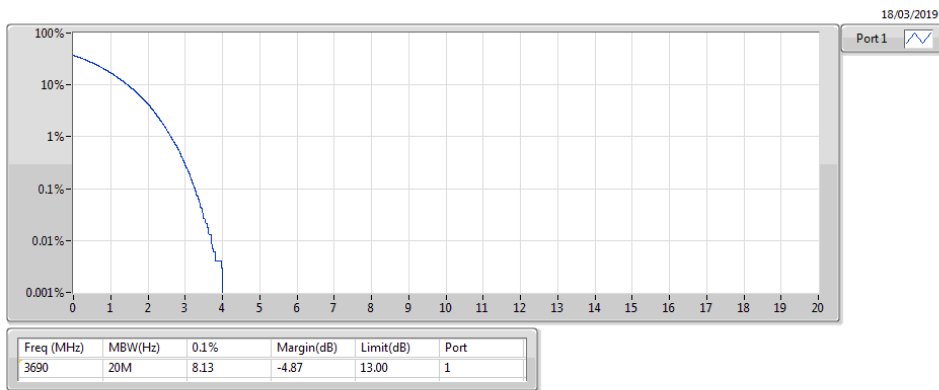
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Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX

PAR

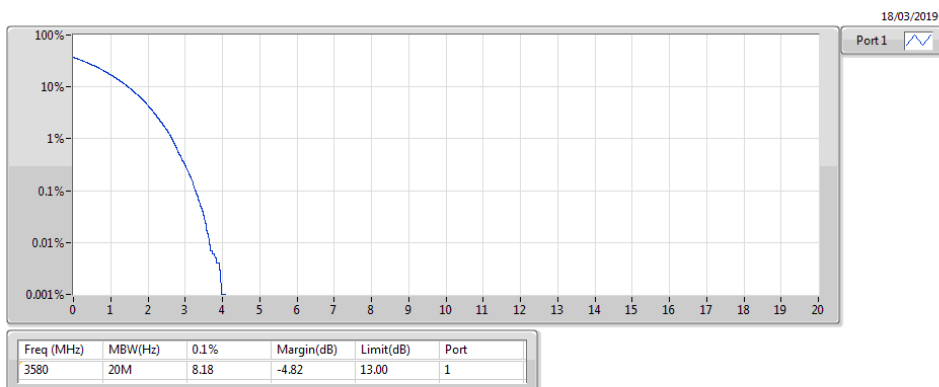
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

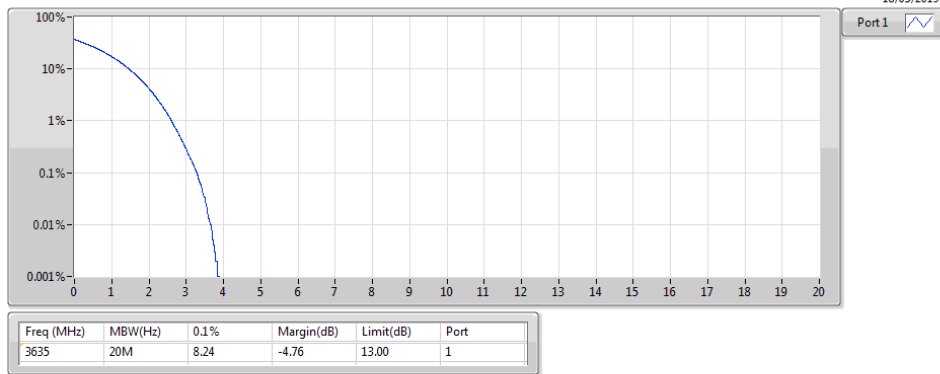
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

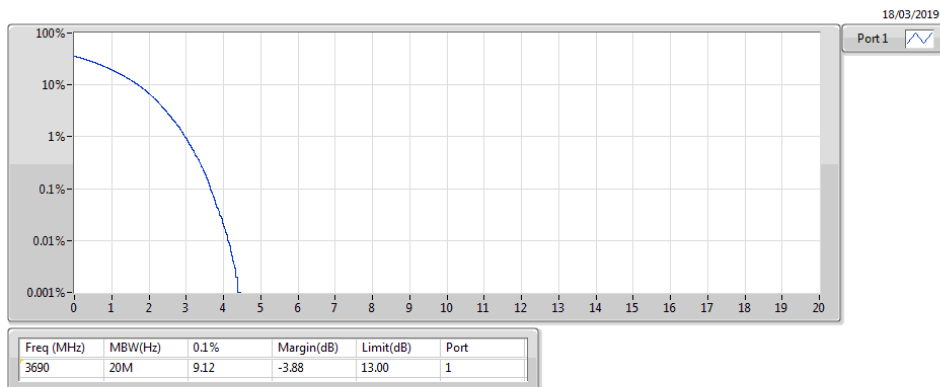
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

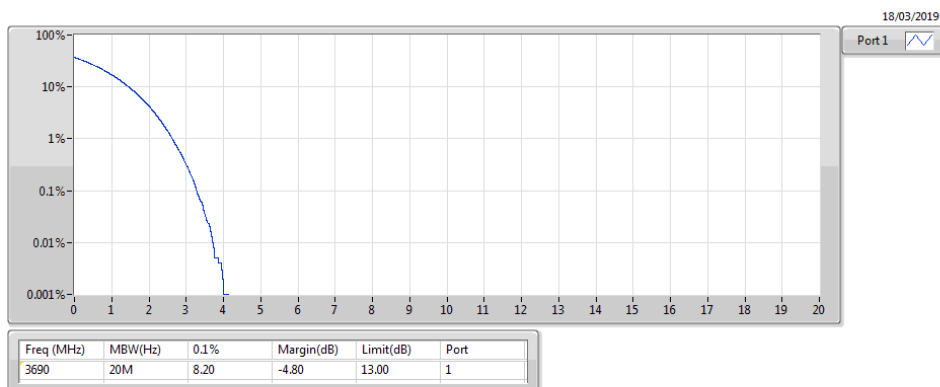
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Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX

PAR

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



<Single-carrier>
Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 48	-	-	-	-	-
LTE_10MHz_QPSK_2TX	9.7M	8.954M	8M95G7D	9.475M	8.912M
LTE_10MHz_16QAM_2TX	9.738M	8.926M	8M93W7D	9.625M	8.914M
LTE_10MHz_64QAM_2TX	9.5M	8.906M	8M91W7D	9.35M	8.879M
LTE_20MHz_QPSK_2TX	18.85M	17.77M	17M8G7D	18.575M	17.728M
LTE_20MHz_16QAM_2TX	18.85M	17.771M	17M8W7D	18.475M	17.73M
LTE_20MHz_64QAM_2TX	18.625M	17.77M	17M8W7D	18.475M	17.721M

Max-N dB = Maximum26dB downbandwidth;**Max-OBW** = Maximum99% occupied bandwidth;

Min-N dB = Minimum26dB downbandwidth;**Min-OBW** = Minimum99% occupied bandwidth;

Result

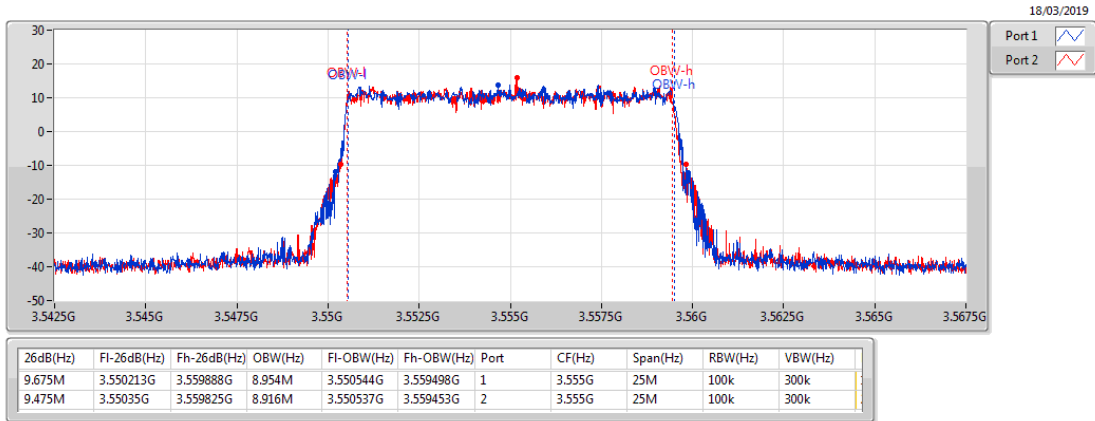
Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)
LTE_10MHz_QPSK_2TX	-	-	-	-	-
3555MHz	Pass	9.675M	8.954M	9.475M	8.916M
3625MHz	Pass	9.613M	8.919M	9.663M	8.934M
3695MHz	Pass	9.7M	8.921M	9.675M	8.912M
LTE_10MHz_16QAM_2TX	-	-	-	-	-
3555MHz	Pass	9.625M	8.916M	9.663M	8.918M
3625MHz	Pass	9.625M	8.92M	9.738M	8.926M
3695MHz	Pass	9.738M	8.914M	9.663M	8.925M
LTE_10MHz_64QAM_2TX	-	-	-	-	-
3555MHz	Pass	9.5M	8.904M	9.463M	8.906M
3625MHz	Pass	9.475M	8.903M	9.425M	8.888M
3695MHz	Pass	9.463M	8.885M	9.35M	8.879M
LTE_20MHz_QPSK_2TX	-	-	-	-	-
3560MHz	Pass	18.725M	17.756M	18.65M	17.728M
3625MHz	Pass	18.775M	17.761M	18.575M	17.752M
3690MHz	Pass	18.75M	17.761M	18.85M	17.77M
LTE_20MHz_16QAM_2TX	-	-	-	-	-
3560MHz	Pass	18.525M	17.73M	18.85M	17.761M
3625MHz	Pass	18.675M	17.735M	18.475M	17.771M
3690MHz	Pass	18.775M	17.746M	18.675M	17.769M
LTE_20MHz_64QAM_2TX	-	-	-	-	-
3560MHz	Pass	18.625M	17.733M	18.55M	17.743M
3625MHz	Pass	18.525M	17.721M	18.575M	17.736M
3690MHz	Pass	18.575M	17.77M	18.475M	17.726M

Port X-N dB = Port X26dB downbandwidth; **Port X-OBW** = Port X99% occupied bandwidth;

Band 48_LTE_10MHz_Nss1,QPSK_2TX

EBW

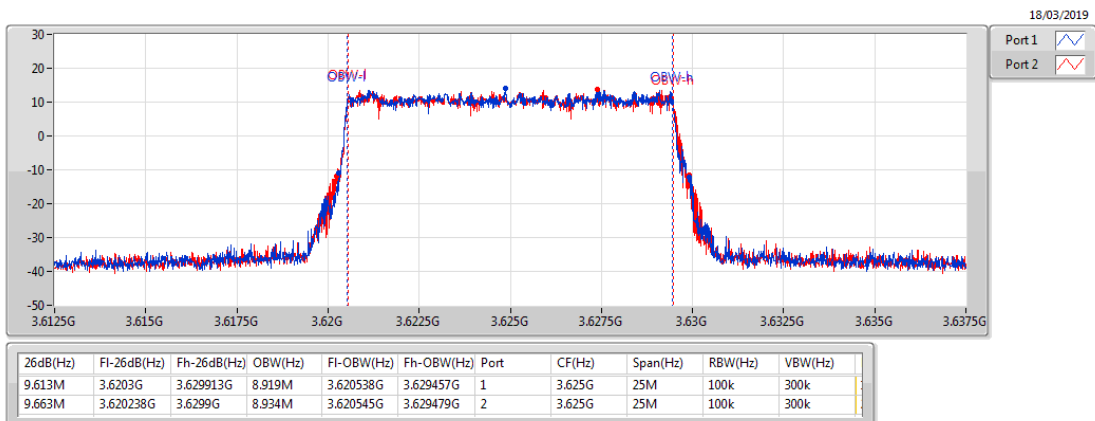
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Band 48_LTE_10MHz_Nss1,QPSK_2TX

EBW

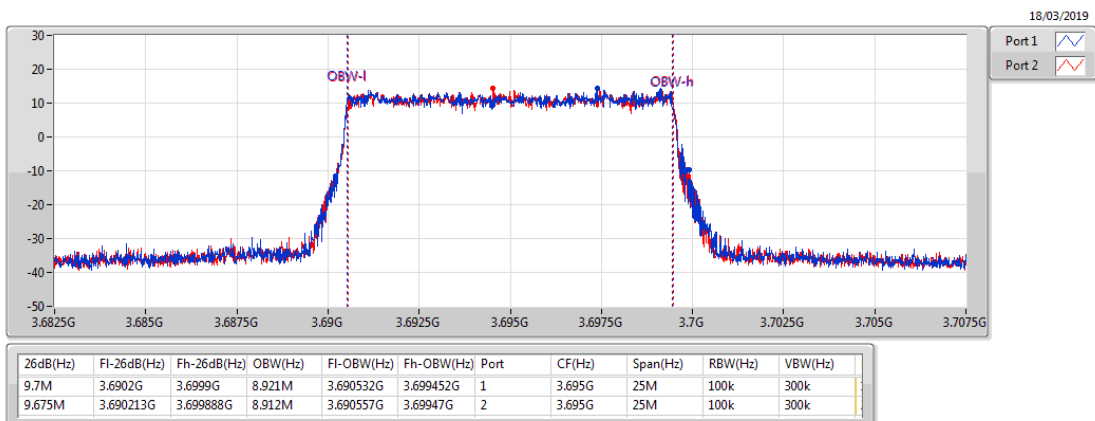
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Band 48_LTE_10MHz_Nss1,QPSK_2TX

EBW

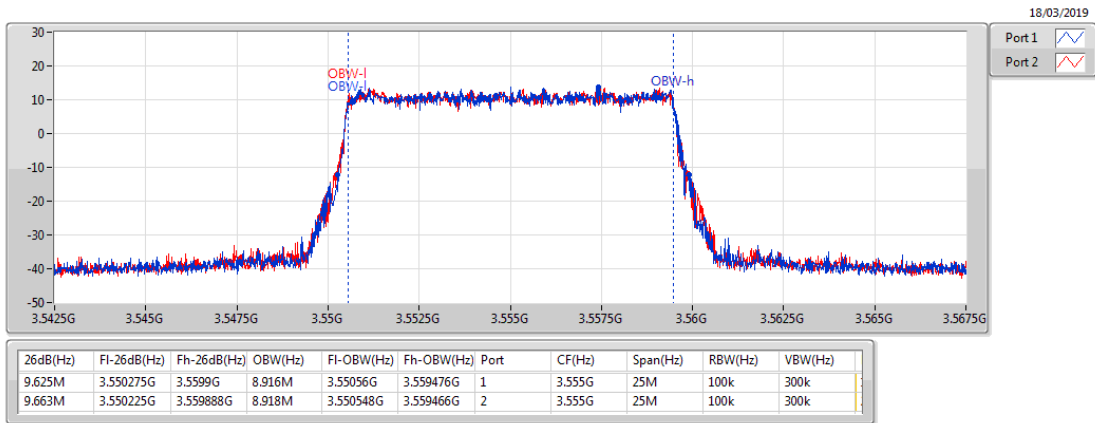
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Band 48_LTE_10MHz_Nss1,16QAM_2TX

EBW

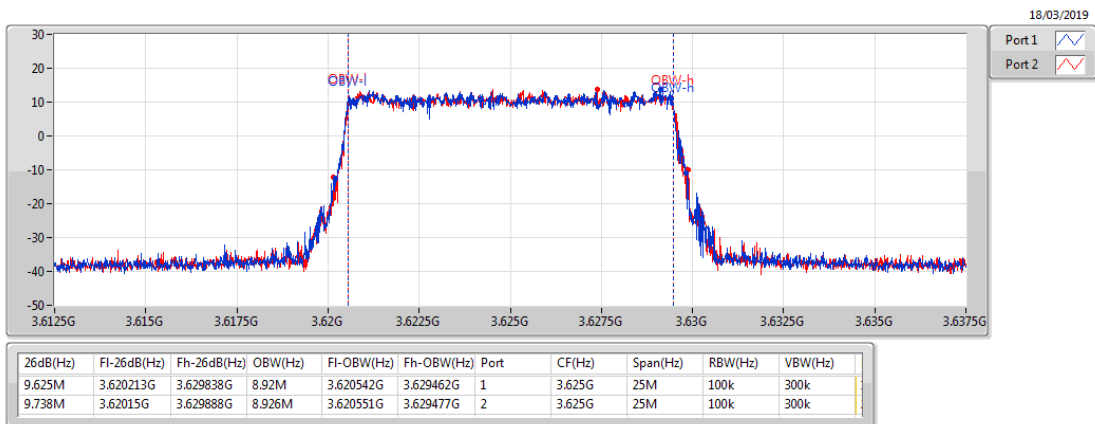
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Band 48_LTE_10MHz_Nss1,16QAM_2TX

EBW

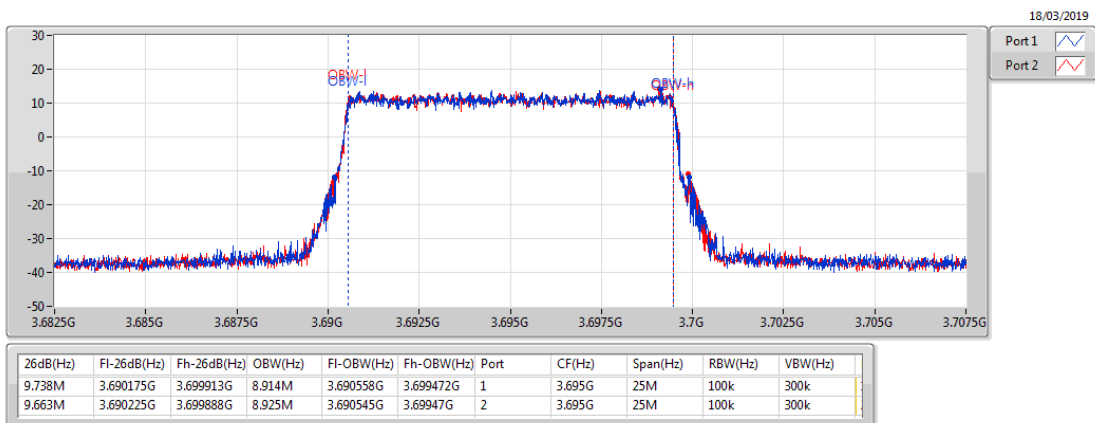
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Band 48_LTE_10MHz_Nss1,16QAM_2TX

EBW

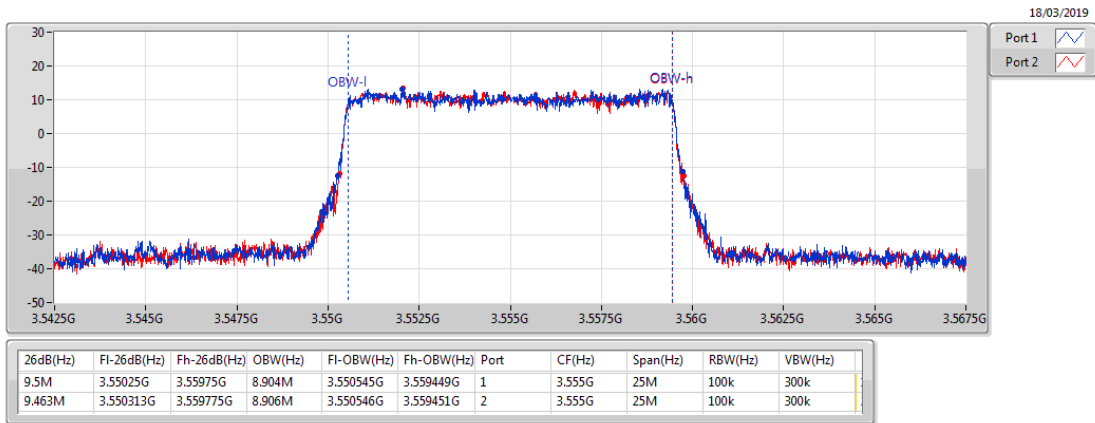
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Band 48_LTE_10MHz_Nss1,64QAM_2TX

EBW

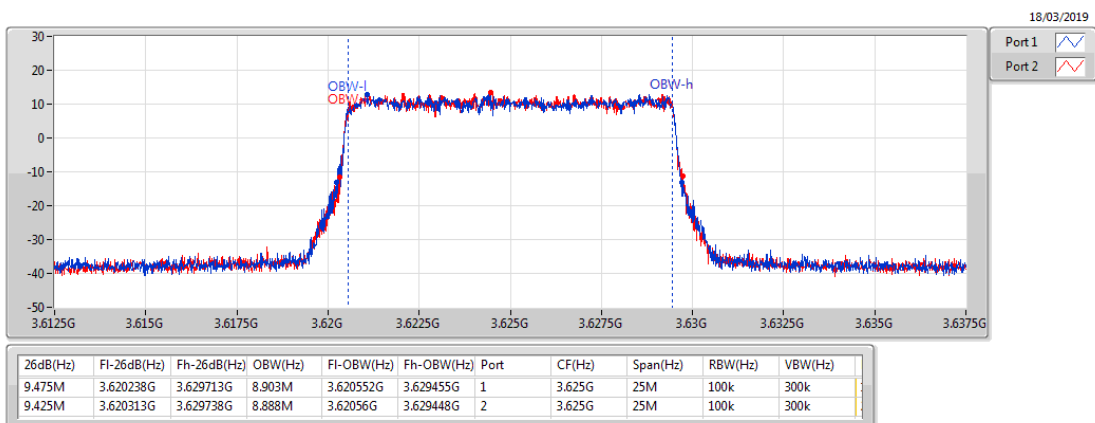
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Band 48_LTE_10MHz_Nss1,64QAM_2TX

EBW

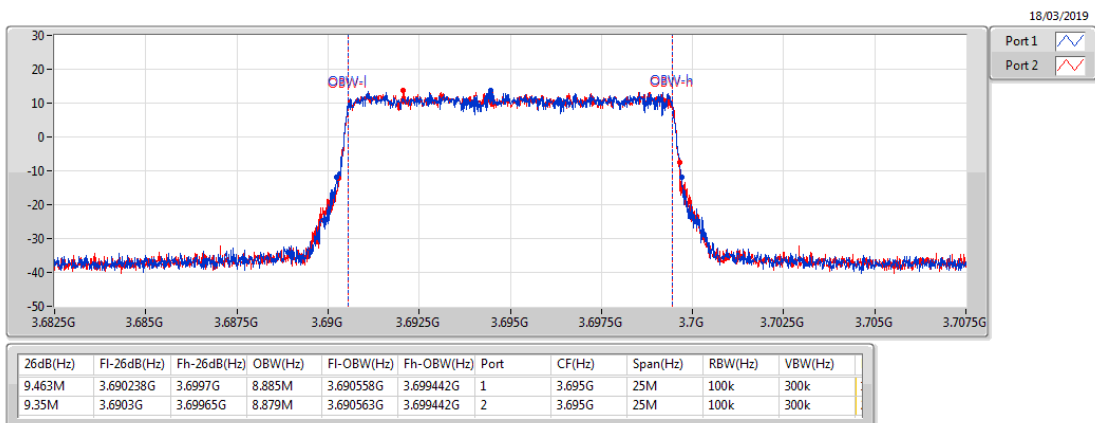
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Band 48_LTE_10MHz_Nss1,64QAM_2TX

EBW

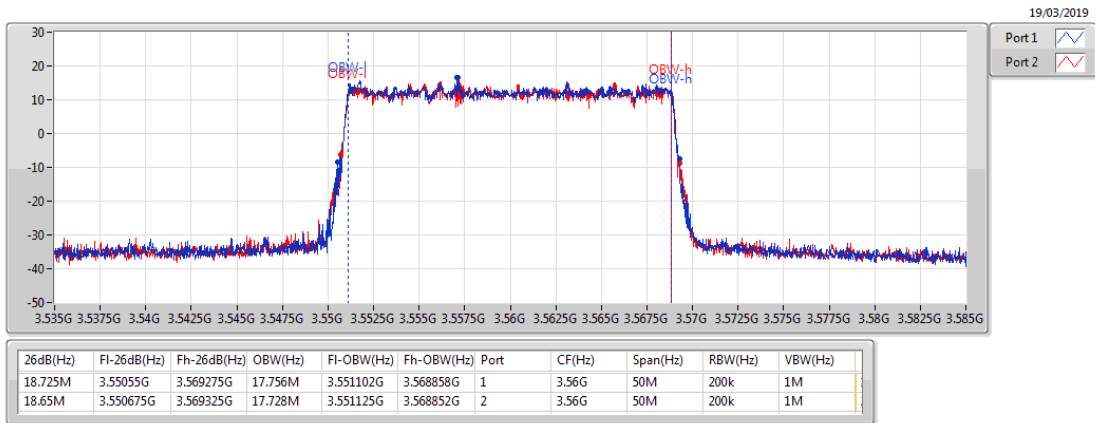
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Band 48_LTE_20MHz_Nss1,QPSK_2TX

EBW

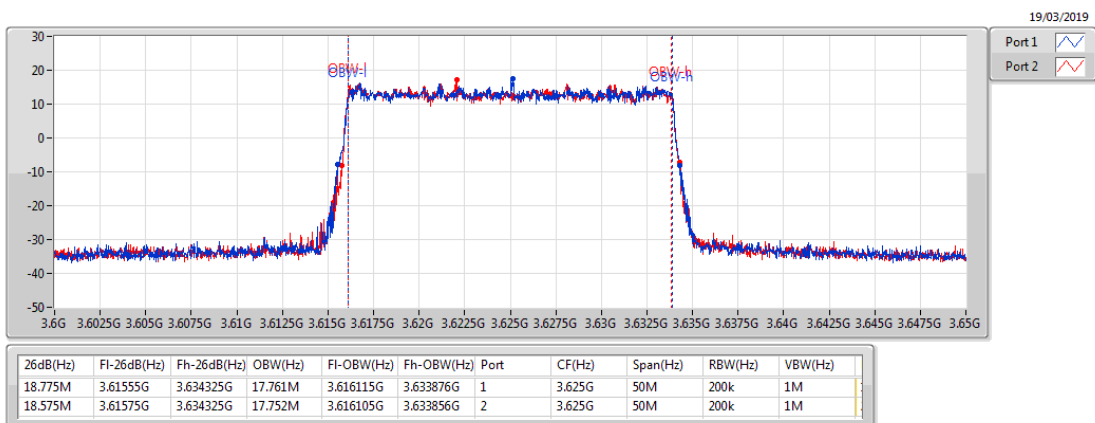
3560MHz_QPSK_RB 100,#RB 0



Band 48_LTE_20MHz_Nss1,QPSK_2TX

EBW

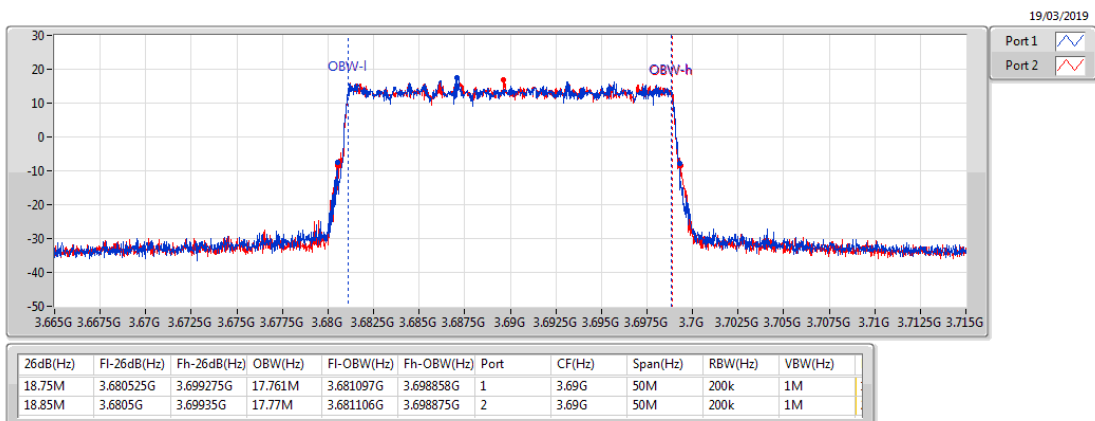
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Band 48_LTE_20MHz_Nss1,QPSK_2TX

EBW

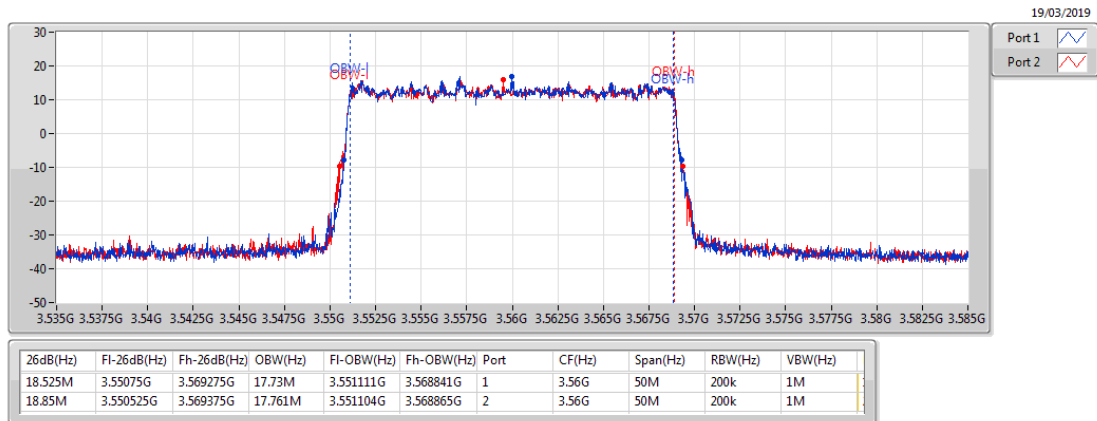
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Band 48_LTE_20MHz_Nss1,16QAM_2TX

EBW

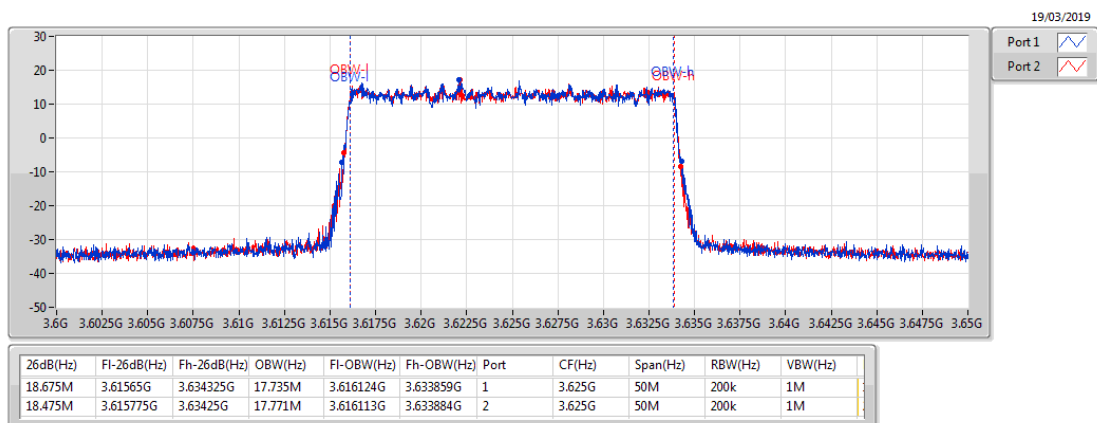
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Band 48_LTE_20MHz_Nss1,16QAM_2TX

EBW

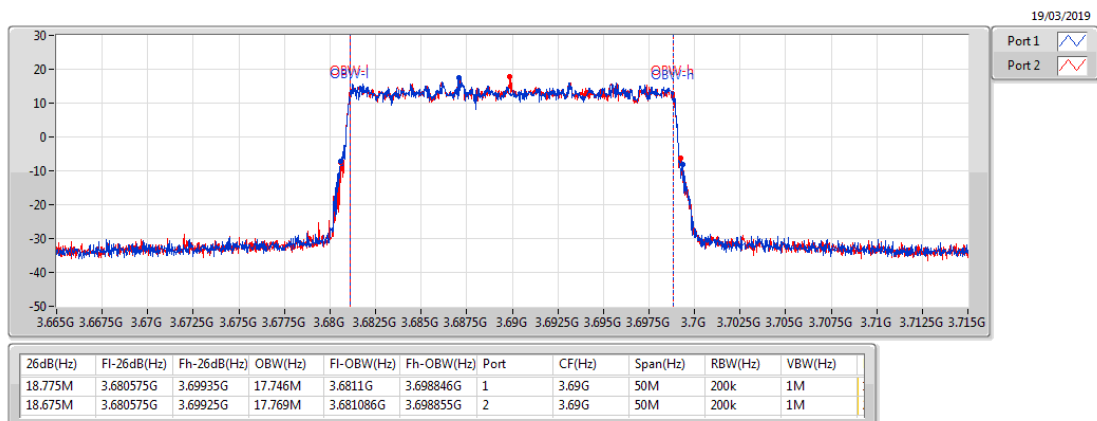
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Band 48_LTE_20MHz_Nss1,16QAM_2TX

EBW

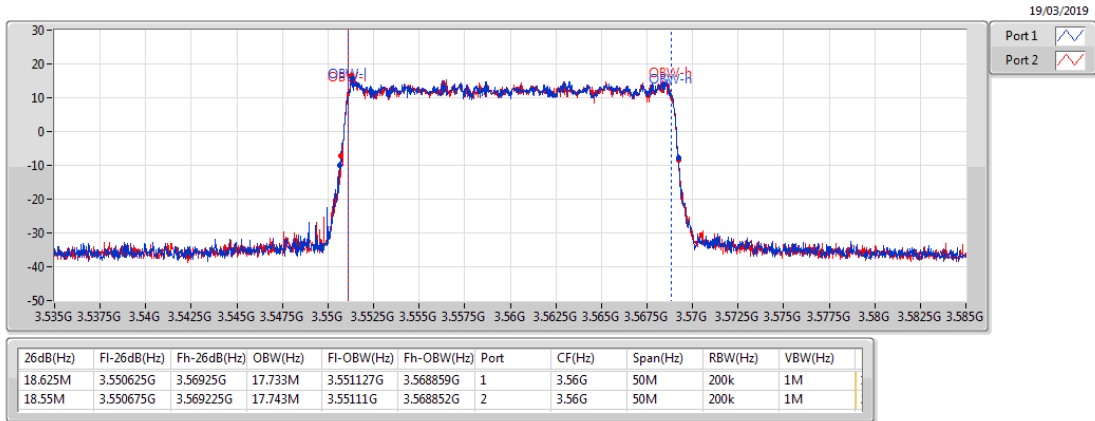
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Band 48_LTE_20MHz_Nss1,64QAM_2TX

EBW

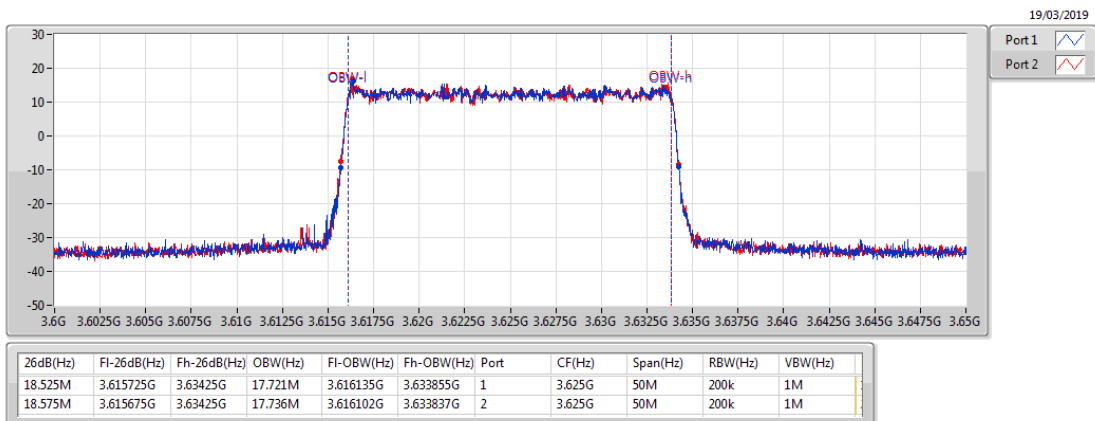
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Band 48_LTE_20MHz_Nss1,64QAM_2TX

EBW

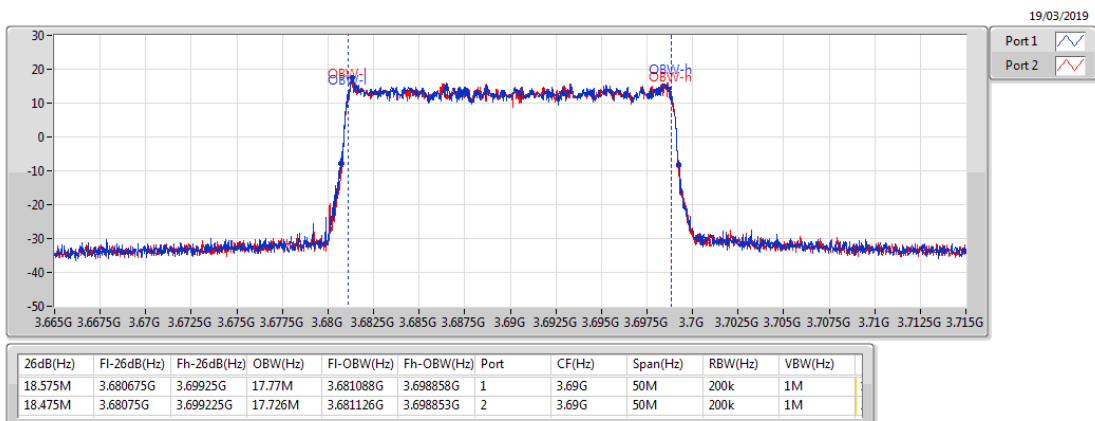
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Band 48_LTE_20MHz_Nss1,64QAM_2TX

EBW

3690MHz_64QAM_RB 100,#RB 0



**<Multi-carrier and/or CA>
Summary**

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 48	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	37.375M	35.662M	35M6G7D	37.225M	35.587M
LTE_20MHz+20MHz_16QAM_4TX	37.375M	35.694M	35M6W7D	37.25M	35.639M
LTE_20MHz+20MHz_64QAM_4TX	37.5M	35.648M	35M6W7D	37.35M	35.623M

Max-N dB = Maximum26dB downbandwidth;**Max-OBW** = Maximum99% occupied bandwidth;
Min-N dB = Minimum26dB downbandwidth;**Min-OBW** = Minimum99% occupied bandwidth;

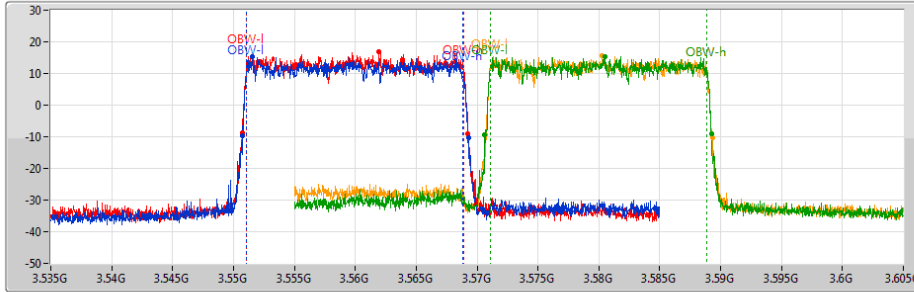
Result

Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)	Port 3-NdB (Hz)	Port 3-OBW (Hz)	Port 4-NdB (Hz)	Port 4-OBW (Hz)	Sum-NdB (Hz)	Sum-OBW (Hz)
LTE_20MHz+20MHz_QPSK_4TX	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	18.6M	17.76M	18.45M	17.783M	18.625M	17.804M	18.675M	17.781M	37.3M	35.587M
P#3615MHz,#3635MHz	Pass	18.575M	17.833M	18.7M	17.766M	18.625M	17.788M	18.55M	17.825M	37.325M	35.658M
P#3670MHz,#3690MHz	Pass	18.575M	17.813M	18.65M	17.818M	18.725M	17.799M	18.6M	17.789M	37.375M	35.631M
P#3560MHz,#3690MHz	Pass	18.55M	17.843M	18.55M	17.759M	18.675M	17.765M	18.55M	17.819M	37.225M	35.662M
LTE_20MHz+20MHz_16QAM_4TX	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	18.675M	17.861M	18.575M	17.819M	18.575M	17.807M	18.5M	17.808M	37.25M	35.68M
P#3615MHz,#3635MHz	Pass	18.65M	17.864M	18.55M	17.784M	18.675M	17.83M	18.675M	17.802M	37.35M	35.694M
P#3670MHz,#3690MHz	Pass	18.725M	17.814M	18.625M	17.775M	18.65M	17.825M	18.625M	17.778M	37.375M	35.639M
P#3560MHz,#3690MHz	Pass	18.65M	17.773M	18.525M	17.772M	18.65M	17.851M	18.625M	17.809M	37.3M	35.66M
LTE_20MHz+20MHz_64QAM_4TX	-	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3580MHz	Pass	18.625M	17.788M	18.65M	17.805M	18.775M	17.808M	18.7M	17.822M	37.425M	35.63M
P#3615MHz,#3635MHz	Pass	18.675M	17.798M	18.675M	17.806M	18.65M	17.818M	18.8M	17.83M	37.475M	35.648M
P#3670MHz,#3690MHz	Pass	18.625M	17.805M	18.75M	17.816M	18.75M	17.802M	18.7M	17.807M	37.5M	35.623M
P#3560MHz,#3690MHz	Pass	18.625M	17.78M	18.625M	17.789M	18.6M	17.825M	18.725M	17.815M	37.35M	35.64M

Port X-N dB = Port X26dB downbandwidth; **Port X-OBW** = Port X99% occupied bandwidth;

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX
EBW
P#3560MHz,#3580MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

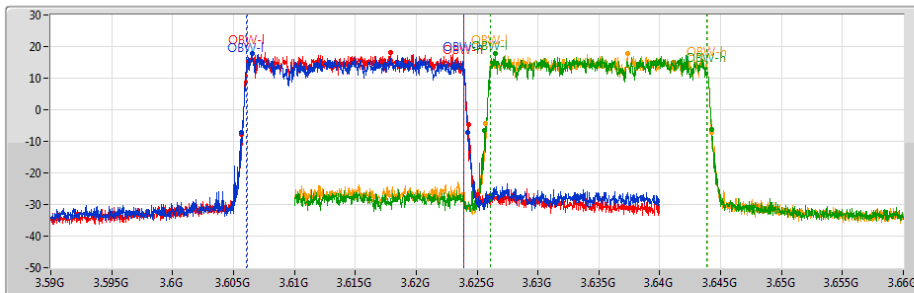
16/03/2019



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.6M	3.550725G	3.569325G	17.76M	3.55109G	3.56885G	1	3.56G	50M	200k	1M
18.45M	3.550775G	3.569225G	17.783M	3.551094G	3.568878G	2	3.56G	50M	200k	1M
18.625M	3.570625G	3.58925G	17.804M	3.571085G	3.588889G	3	3.58G	50M	200k	1M
18.675M	3.570675G	3.58935G	17.781M	3.571072G	3.588853G	4	3.58G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX
EBW
P#3615MHz,#3635MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

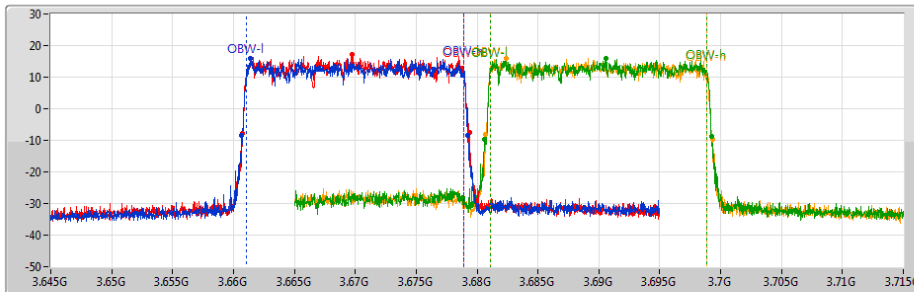
16/03/2019



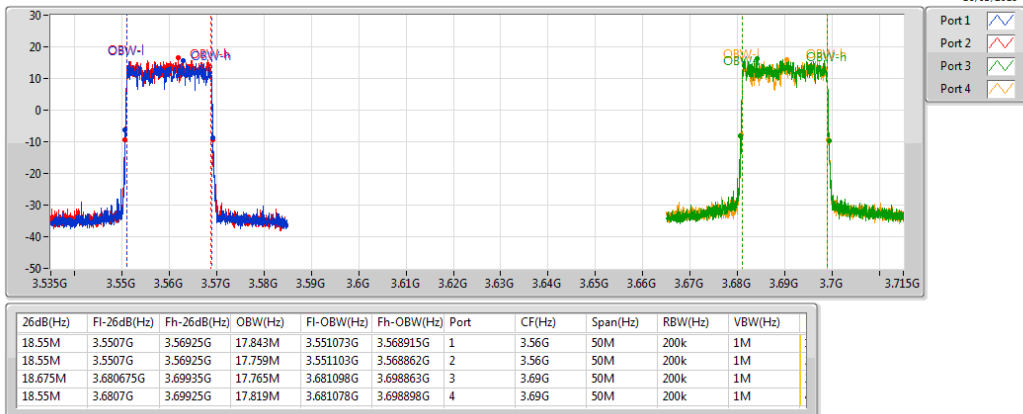
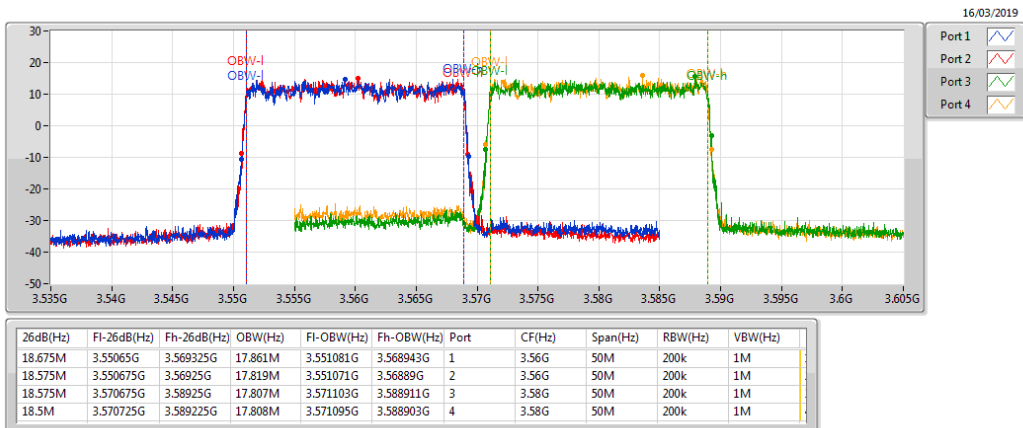
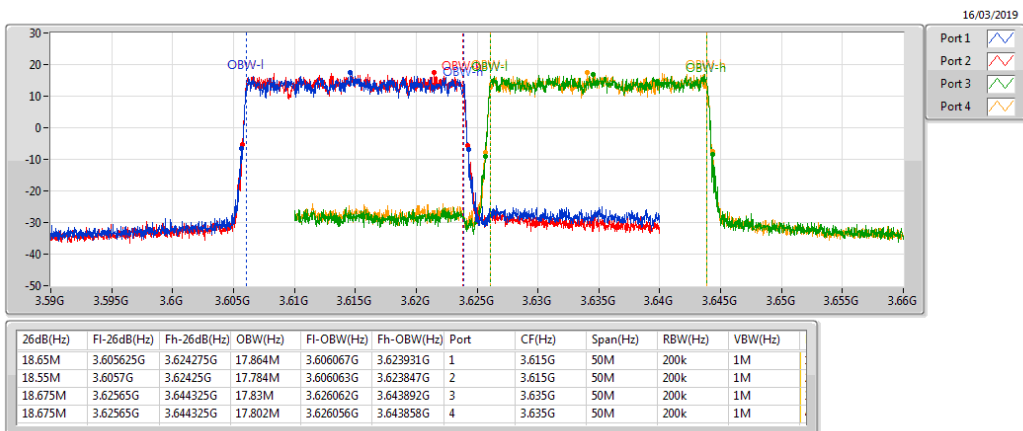
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.575M	3.605625G	3.6242G	17.833M	3.606069G	3.623901G	1	3.615G	50M	200k	1M
18.7M	3.60565G	3.62435G	17.766M	3.606104G	3.623869G	2	3.615G	50M	200k	1M
18.625M	3.625625G	3.64425G	17.788M	3.626094G	3.643882G	3	3.635G	50M	200k	1M
18.55M	3.625725G	3.644275G	17.825M	3.626079G	3.643904G	4	3.635G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX
EBW
P#3670MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

16/03/2019

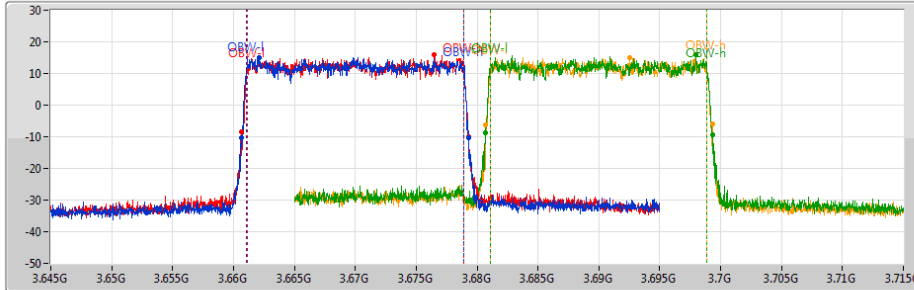


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.575M	3.660675G	3.67925G	17.813M	3.661096G	3.67891G	1	3.67G	50M	200k	1M
18.65M	3.660725G	3.679375G	17.818M	3.66108G	3.678898G	2	3.67G	50M	200k	1M
18.725M	3.680575G	3.6993G	17.799M	3.681086G	3.698886G	3	3.69G	50M	200k	1M
18.6M	3.680725G	3.699325G	17.789M	3.681072G	3.698861G	4	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX
EBW
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
EBW
P#3560MHz,#3580MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
EBW
P#3615MHz,#3635MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0


Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
EBW
P#3670MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0

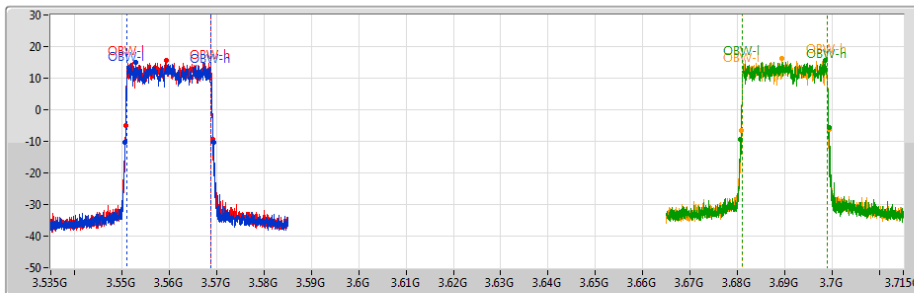
16/03/2019



26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.725M	3.660625G	3.67935G	17.814M	3.661092G	3.678906G	1	3.67G	50M	200k	1M
18.625M	3.66065G	3.679275G	17.775M	3.661139G	3.678915G	2	3.67G	50M	200k	1M
18.65M	3.680675G	3.699325G	17.825M	3.681061G	3.698886G	3	3.69G	50M	200k	1M
18.625M	3.6807G	3.699325G	17.778M	3.681095G	3.698873G	4	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
EBW
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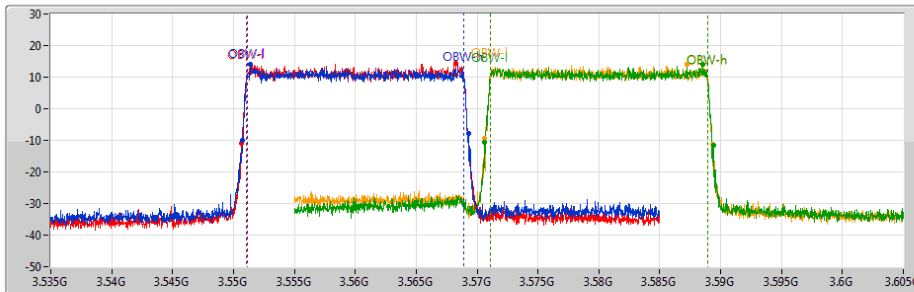
16/03/2019



26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.65M	3.550675G	3.569325G	17.773M	3.551093G	3.568866G	1	3.56G	50M	200k	1M
18.525M	3.55075G	3.569275G	17.772M	3.551074G	3.568846G	2	3.56G	50M	200k	1M
18.65M	3.68065G	3.6993G	17.851M	3.681066G	3.698917G	3	3.69G	50M	200k	1M
18.625M	3.6807G	3.699325G	17.809M	3.681075G	3.698884G	4	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
EBW
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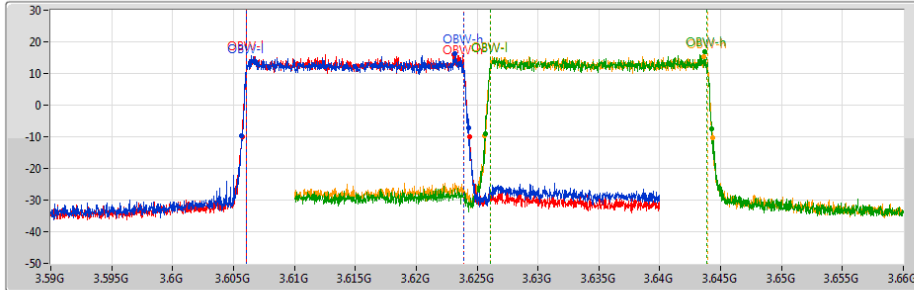
16/03/2019



26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.625M	3.5507G	3.569325G	17.788M	3.551113G	3.56889G	1	3.56G	50M	200k	1M
18.65M	3.55065G	3.5693G	17.805M	3.551091G	3.568896G	2	3.56G	50M	200k	1M
18.775M	3.570625G	3.5894G	17.808M	3.571095G	3.588903G	3	3.58G	50M	200k	1M
18.7M	3.570625G	3.589325G	17.822M	3.571088G	3.588911G	4	3.58G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
EBW
P#3615MHz,#3635MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

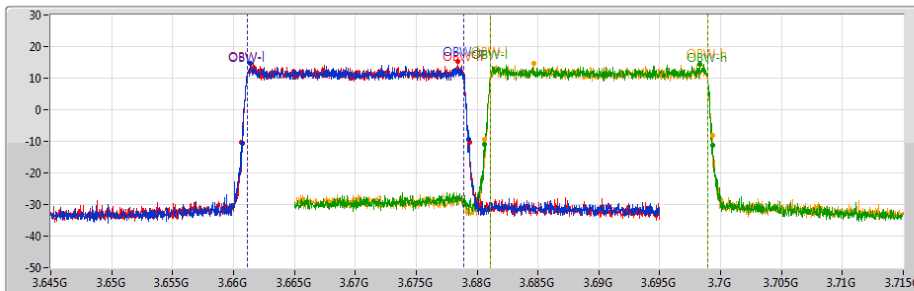
16/03/2019



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.675M	3.605675G	3.62435G	17.798M	3.606087G	3.623885G	1	3.615G	50M	200k	1M
18.675M	3.6057G	3.624375G	17.806M	3.606089G	3.623896G	2	3.615G	50M	200k	1M
18.65M	3.62565G	3.6443G	17.818M	3.62608G	3.643899G	3	3.635G	50M	200k	1M
18.8M	3.625575G	3.644375G	17.83M	3.626095G	3.643924G	4	3.635G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
EBW
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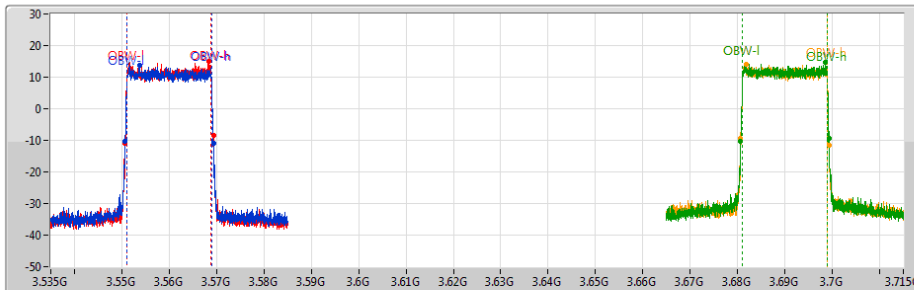
16/03/2019



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.625M	3.660725G	3.67935G	17.805M	3.661109G	3.678914G	1	3.67G	50M	200k	1M
18.75M	3.66065G	3.6794G	17.816M	3.661106G	3.678922G	2	3.67G	50M	200k	1M
18.75M	3.680575G	3.699325G	17.802M	3.681107G	3.698909G	3	3.69G	50M	200k	1M
18.7M	3.680625G	3.699325G	17.807M	3.681094G	3.698902G	4	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX
EBW
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

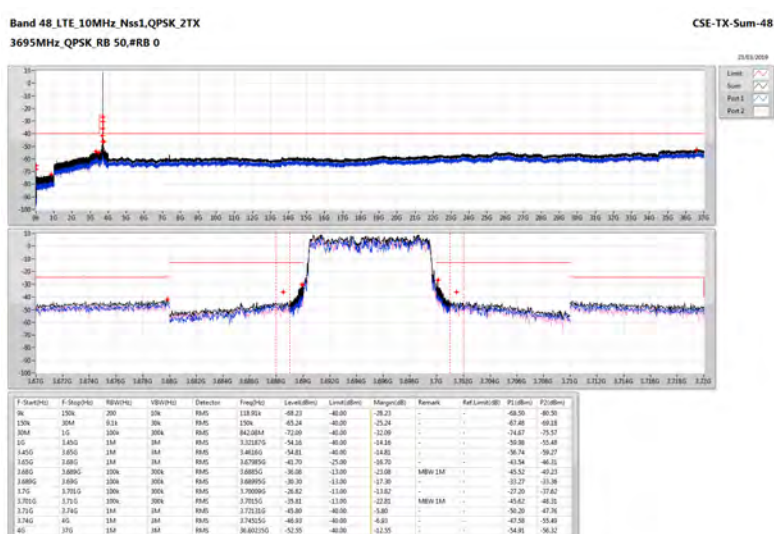
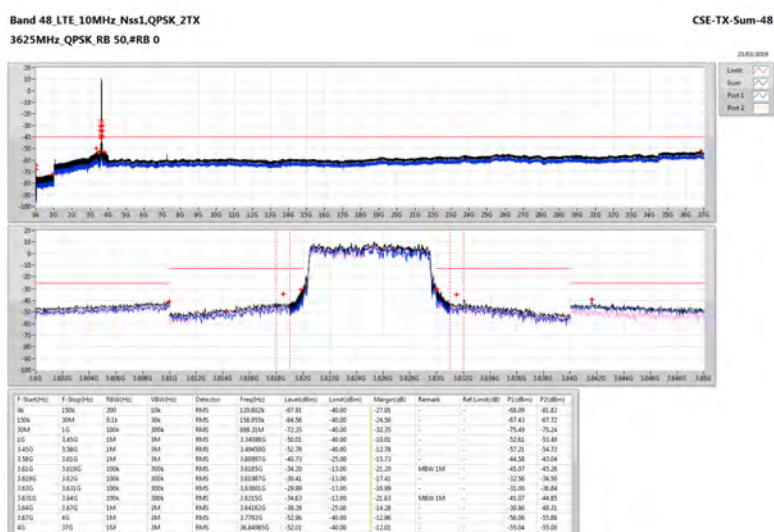
16/03/2019

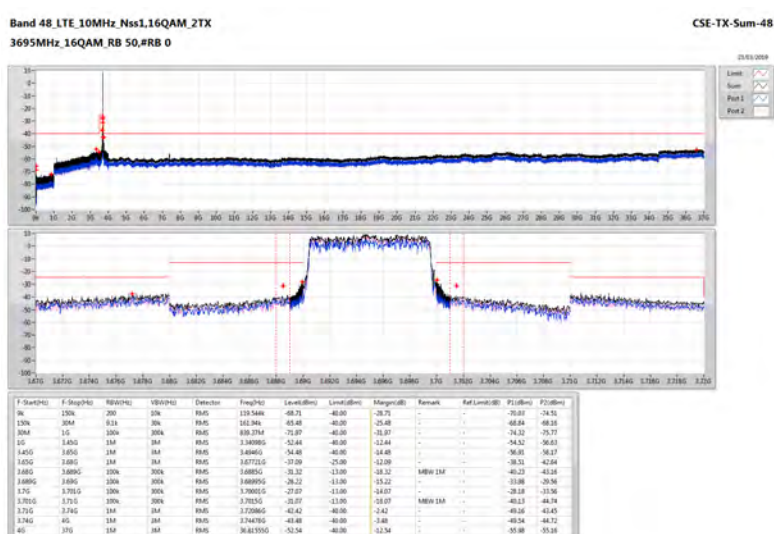
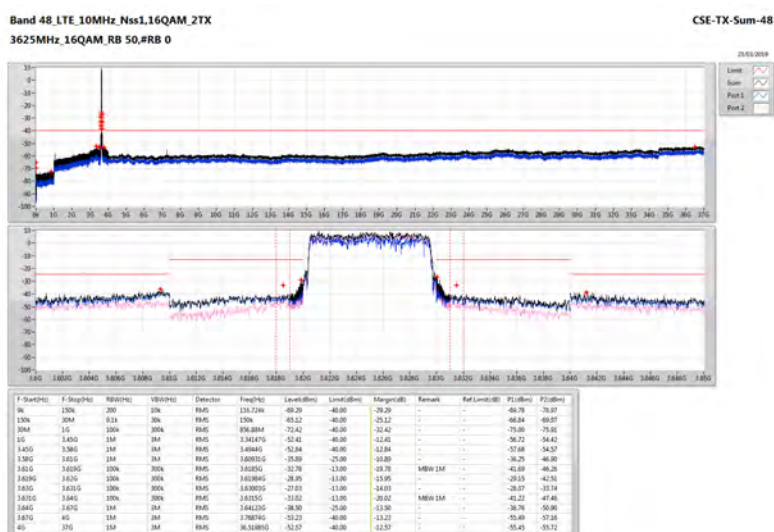


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
18.625M	3.5507G	3.569325G	17.78M	3.551115G	3.568895G	1	3.56G	50M	200k	1M
18.625M	3.5507G	3.569325G	17.789M	3.551098G	3.568887G	2	3.56G	50M	200k	1M
18.6M	3.680675G	3.699275G	17.825M	3.681083G	3.698908G	3	3.69G	50M	200k	1M
18.725M	3.680625G	3.69935G	17.815M	3.68109G	3.698905G	4	3.69G	50M	200k	1M

**<Single-carrier>
Summary**

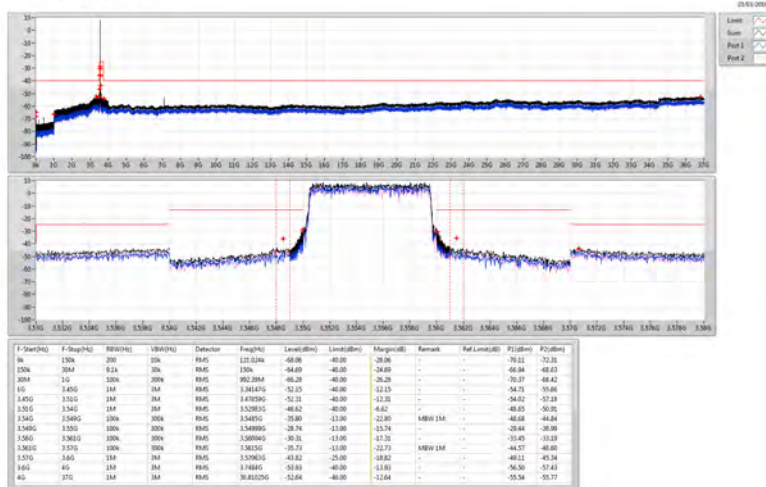
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark
Band 48	-	-	-	-	-	-	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	3.51G	3.54G	1M	3M	RMS	3.52602G	-40.97	-40.00	-0.97	-
LTE_10MHz_Nss1,16QAM_2TX	Pass	3.71G	3.74G	1M	3M	RMS	3.72086G	-42.42	-40.00	-2.42	-
LTE_10MHz_Nss1,64QAM_2TX	Pass	3.71G	3.74G	1M	3M	RMS	3.72086G	-44.81	-40.00	-4.81	-
LTE_20MHz_Nss1,QPSK_2TX	Pass	3.71G	3.74G	1M	3M	RMS	3.72761G	-40.34	-40.00	-0.34	-
LTE_20MHz_Nss1,16QAM_2TX	Pass	3.71G	3.74G	1M	3M	RMS	3.72008G	-40.27	-40.00	-0.27	-
LTE_20MHz_Nss1,64QAM_2TX	Pass	3.74G	4G	1M	3M	RMS	3.7451G	-40.21	-40.00	-0.21	-





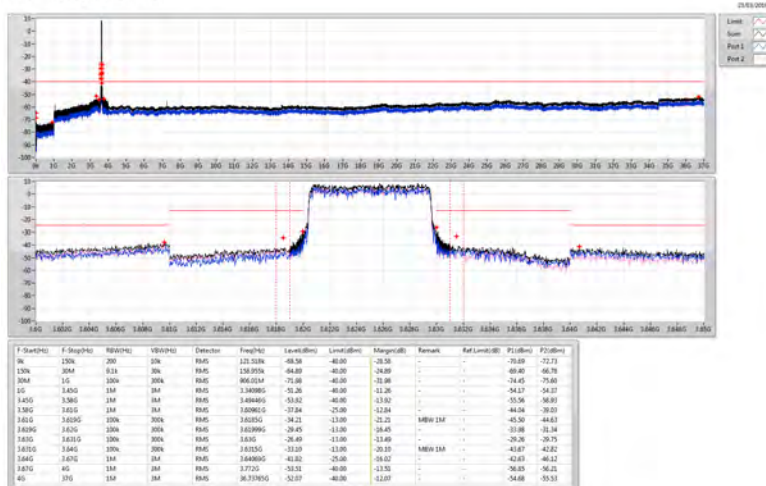
Band 48 LTE 10MHz Nss1,64QAM 2TX
3555MHz 64QAM RB 50, #RB 0

CSE-TX-Sum-48



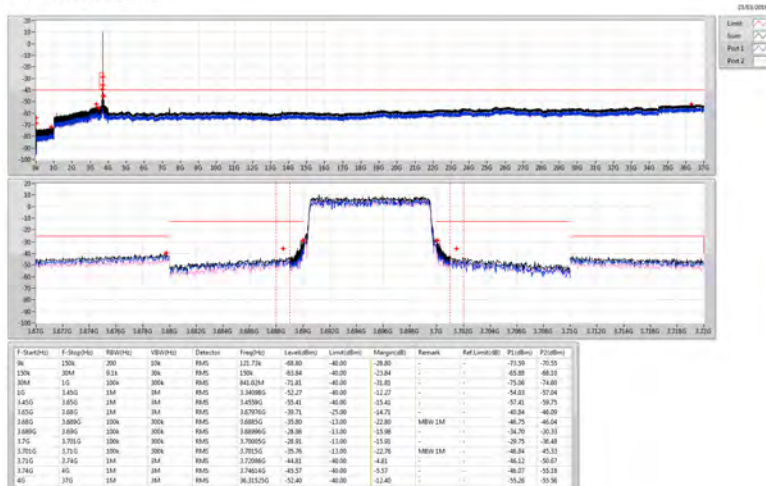
Band 48 LTE 10MHz Nss1,64QAM 2TX
3625MHz 64QAM RB 50, #RB 0

CSE-TX-Sum-48



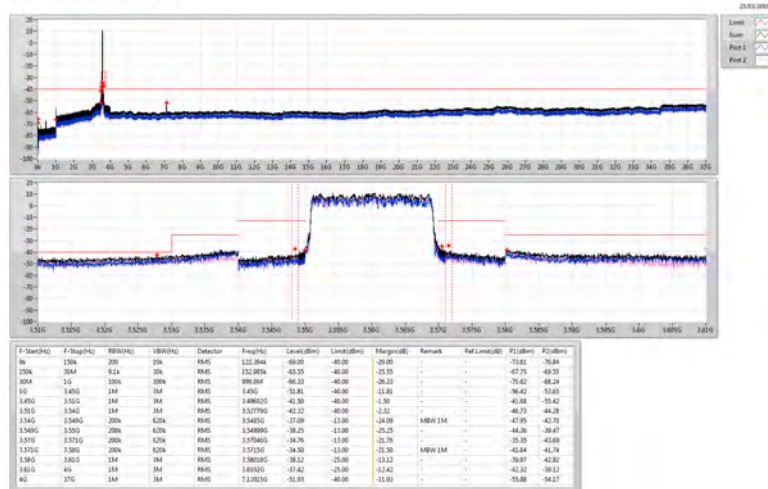
Band 48 LTE 10MHz Nss1,64QAM 2TX
3695MHz 64QAM RB 50, #RB 0

CSE-TX-Sum-48



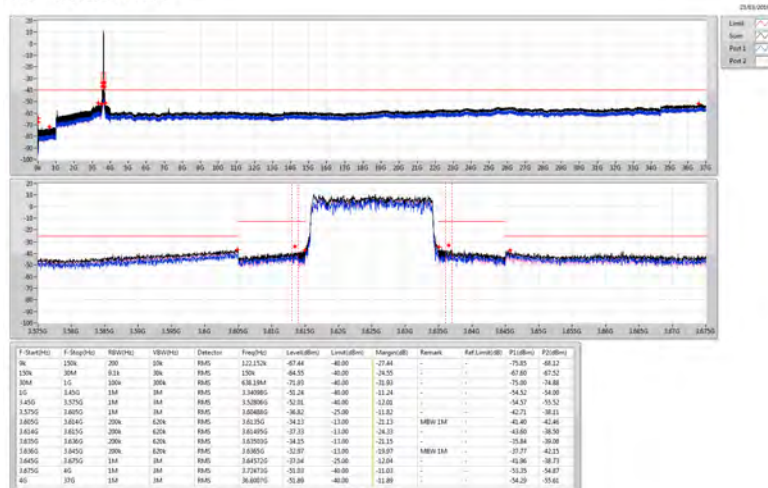
Band 48 LTE 20MHz Nss1,QPSK 2TX
3560MHz QPSK RB 100, #RB 0

CSE-TX-Sum-48



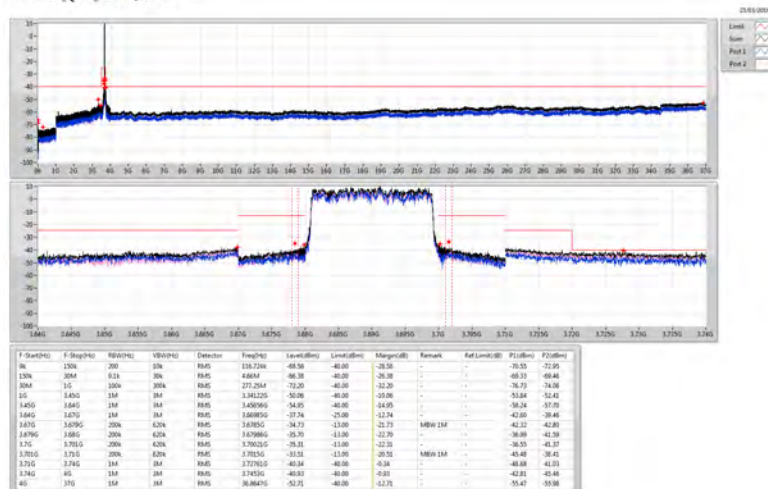
Band 48 LTE 20MHz Nss1,QPSK 2TX
3625MHz QPSK RB 100, #RB 0

CSE-TX-Sum-48



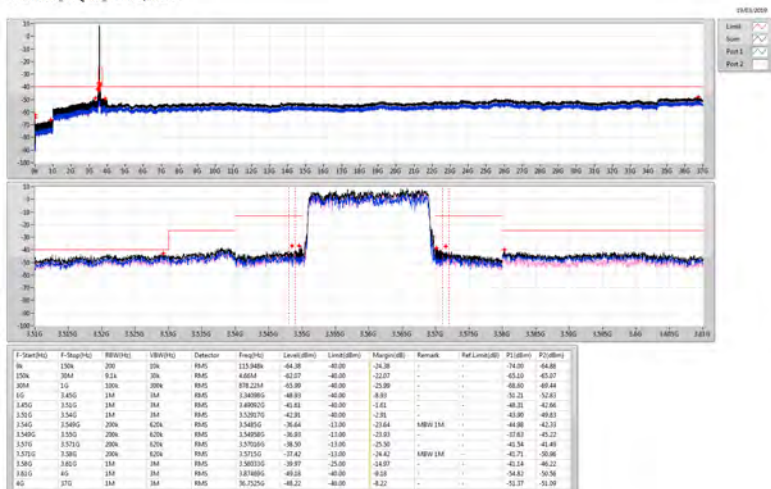
Band 48 LTE 20MHz Nss1,QPSK 2TX
3690MHz QPSK RB 100, #RB 0

CSE-TX-Sum-48



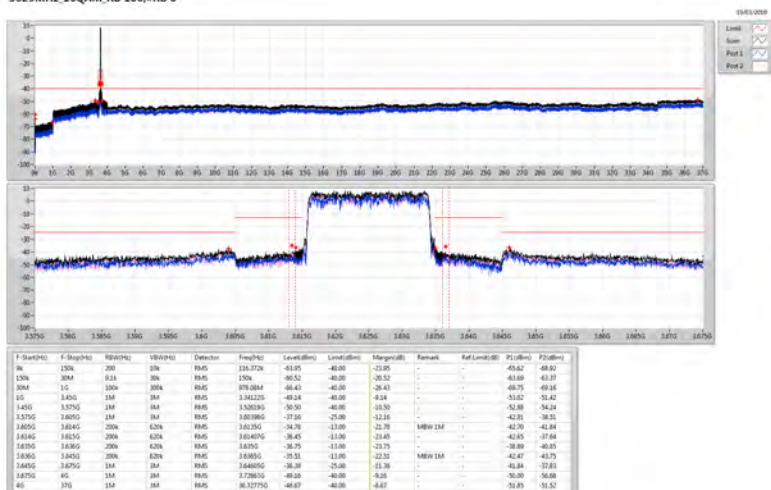
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3560MHz 16QAM RB 100,#RB 0

CSE-TX-Sum-48



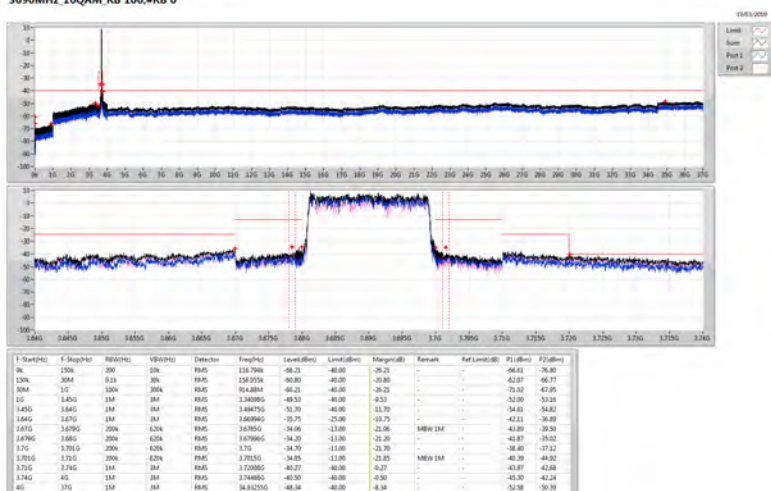
Band 48_LTE_20MHz_Nss1,16QAM_2TX
3625MHz 16QAM RB 100,#RB 0

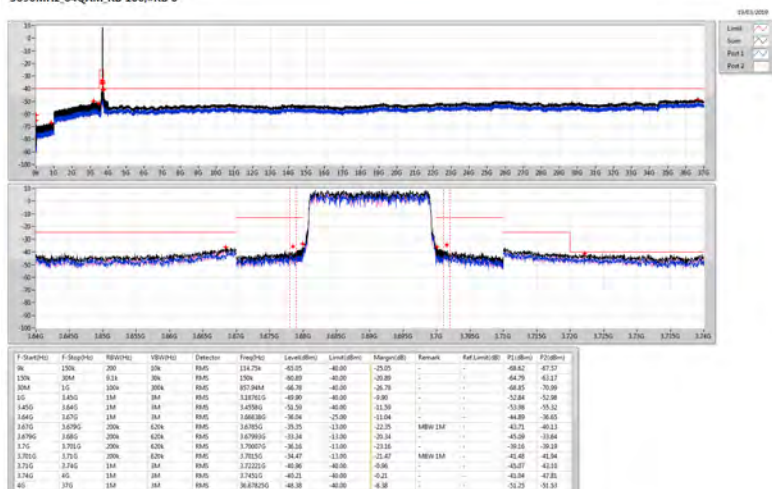
CSE-TX-Sum-48



Band 48_LTE_20MHz_Nss1,16QAM_2TX
3690MHz 16QAM RB 100.#RB 0

CSE-TX-Sum-48



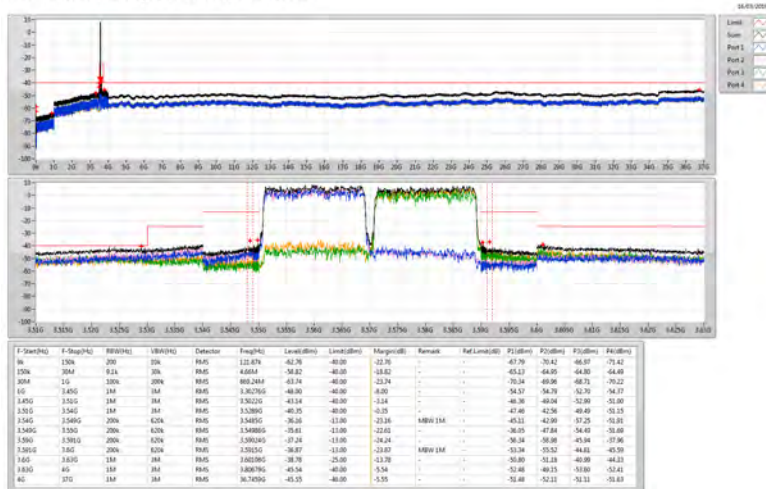


**<Multi-carrier and/or CA>
Summary**

Mode	Setting	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz+20MHz_QPSK_4TX	22	Pass	3.74G	4G	1M	3M	RMS	3.74044G	-40.17	-40.00	-0.17	-
LTE_20MHz+20MHz_16QAM_4TX	22	Pass	3.51G	3.54G	1M	3M	RMS	3.52989G	-40.01	-40.00	-0.01	-
LTE_20MHz+20MHz_64QAM_4TX	22	Pass	3.51G	3.54G	1M	3M	RMS	3.5211G	-40.27	-40.00	-0.27	-

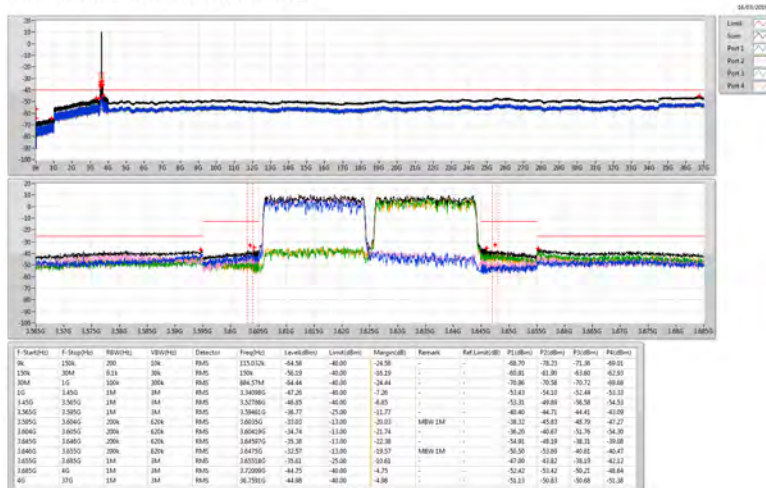
Band 48 LTE 20MHz+20MHz_Nss1.QPSK 4TX
P#3560MHz#3580MHz_QPSK_RB 100, #RB 0+RB 100, #RB 0

CSE-TX-Sum-48



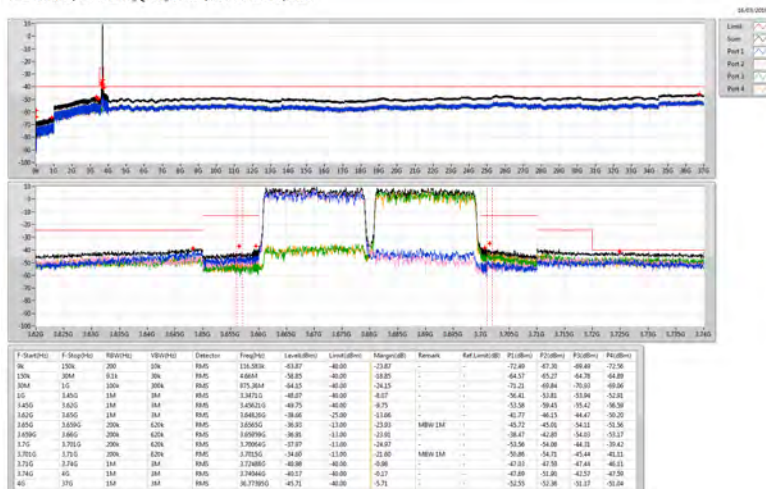
Band 48 LTE 20MHz+20MHz_Nss1.QPSK 4TX
P#3615MHz#3635MHz_QPSK_RB 100, #RB 0+RB 100, #RB 0

CSE-TX-Sum-48



Band 48 LTE 20MHz+20MHz_Nss1.QPSK 4TX
P#3670MHz#3690MHz_QPSK_RB 100, #RB 0+RB 100, #RB 0

CSE-TX-Sum-48



Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX
P#3560MHz,#3690MHz QPSK RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum-48



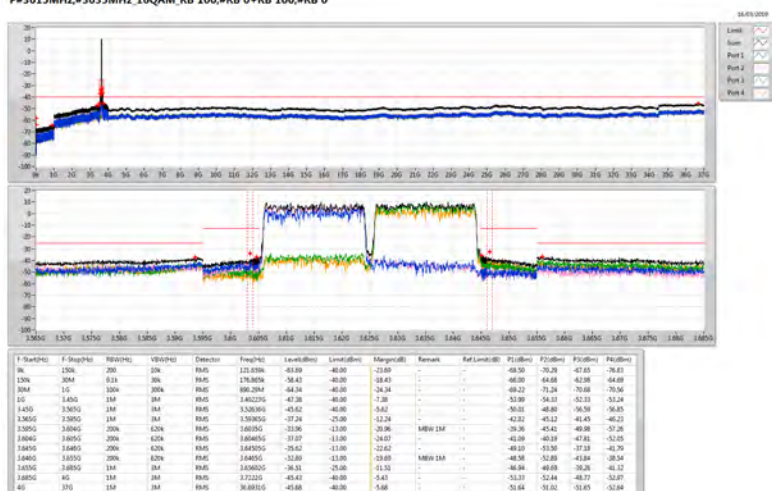
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
P#3560MHz,#3580MHz 16QAM RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum-48



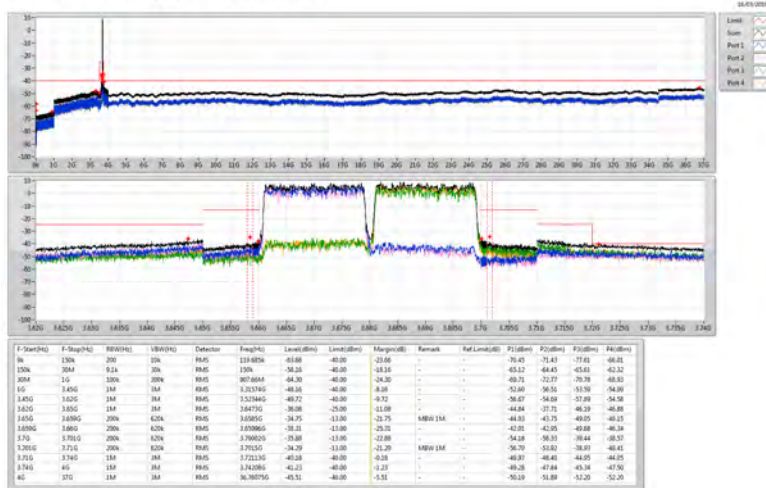
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX
P#3615MHz,#3635MHz 16QAM RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum-48



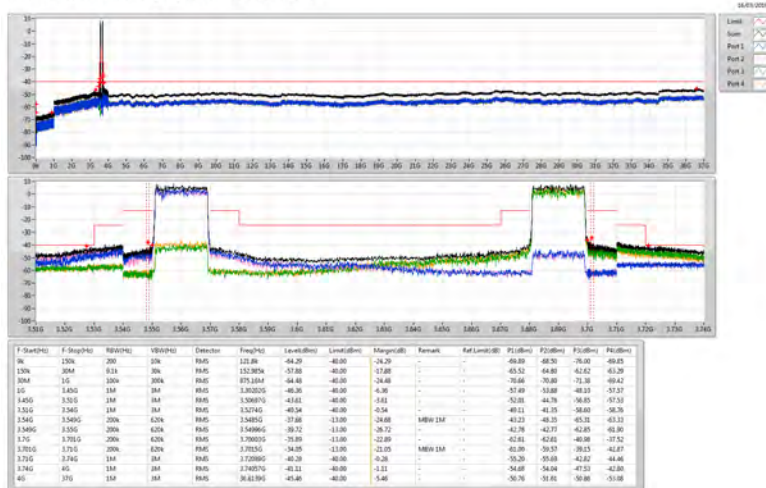
Band 48 LTE 20MHz+20MHz_Nss1.16QAM_4TX
P#3670MHz#3690MHz_16QAM_RB 100,#R 0+RB 100,#R 0

CSE-TX-Sum-48



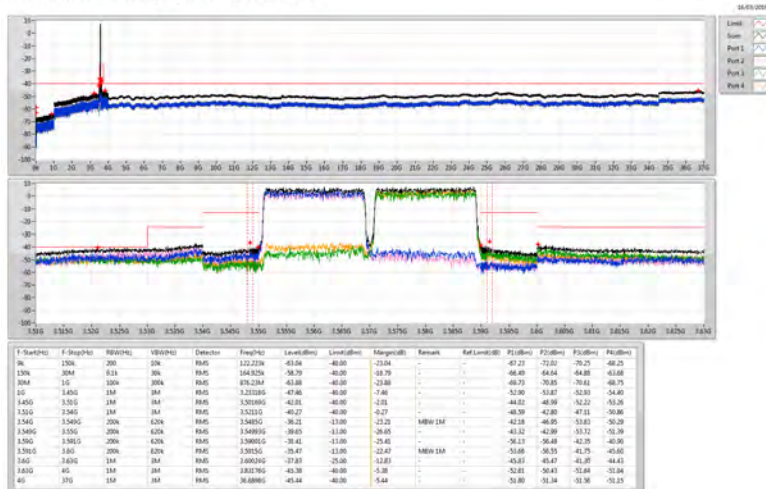
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P#3560MHz#3690MHz_16QAM_RB 100,#R 0+RB 100,#R 0

CSE-TX-Sum-48



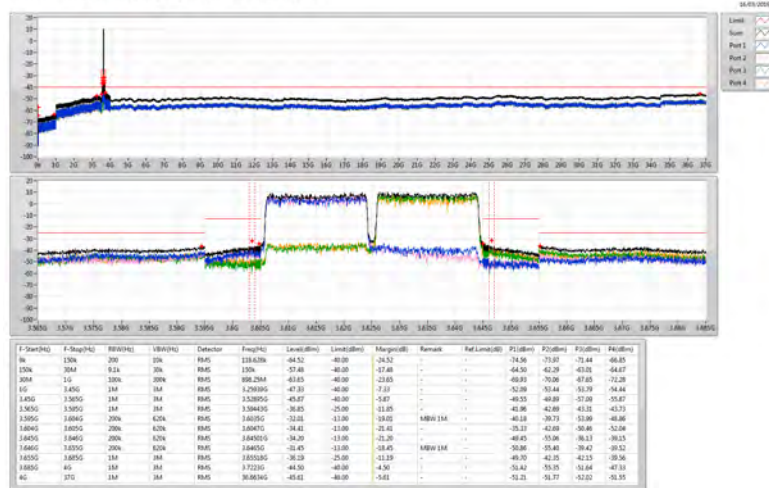
Band 48 LTE 20MHz+20MHz_Nss1.64QAM_4TX
P#3560MHz#3580MHz_64QAM_RB 100,#R 0+RB 100,#R 0

CSE-TX-Sum-48



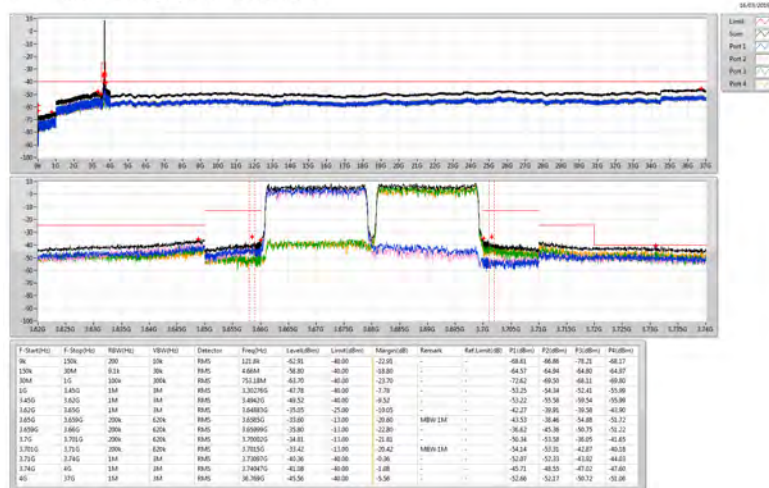
Band 48 LTE_20MHz+20MHz_Nss1,64QAM_4TX
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CSE-TX-Sum-48



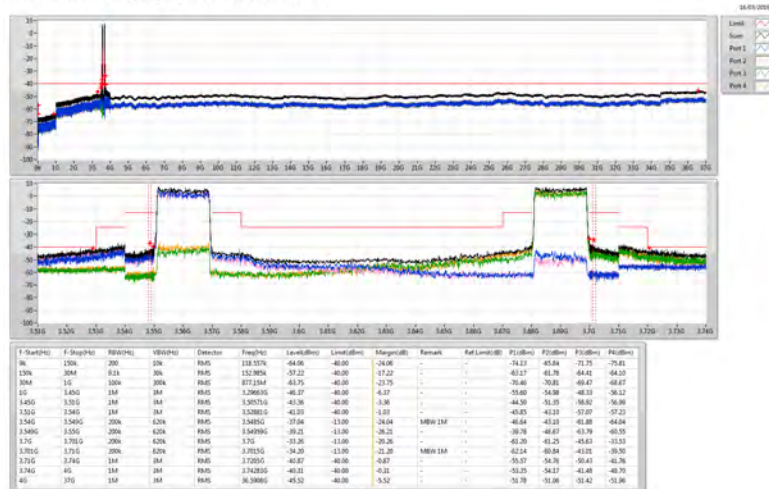
Band 48 LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3670MHz#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum-48



Band 48 LTE_20MHz+20MHz_Nss1,64QAM_4TX
P#3660MHz#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0

CSE-TX-Sum-48



<Single-carrier>

Field Strength of Spurious Radiation (30MHz ~ 1GHz)

Configurations	20MHz / QPSK / 3560 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	119.24	-73.42	-33.42	-40.00	-67.00	-6.42	HORIZONTAL
2	159.98	-72.38	-32.38	-40.00	-63.53	-8.85	HORIZONTAL
3	179.38	-70.83	-30.83	-40.00	-61.96	-8.87	HORIZONTAL
4	198.78	-70.64	-30.64	-40.00	-60.19	-10.45	HORIZONTAL
5	220.12	-72.83	-32.83	-40.00	-62.48	-10.35	HORIZONTAL
6	239.52	-72.66	-32.66	-40.00	-62.51	-10.15	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-68.04	-28.04	-40.00	-55.83	-12.21	VERTICAL
2	45.52	-72.48	-32.48	-40.00	-57.17	-15.31	VERTICAL
3	55.22	-73.06	-33.06	-40.00	-56.35	-16.71	VERTICAL
4	109.54	-72.74	-32.74	-40.00	-65.20	-7.54	VERTICAL
5	198.78	-71.37	-31.37	-40.00	-60.92	-10.45	VERTICAL
6	361.74	-77.91	-37.91	-40.00	-71.33	-6.58	VERTICAL

Configurations	20MHz / QPSK / 3625 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	119.24	-73.00	-33.00	-40.00	-66.58	-6.42	HORIZONTAL
2	159.98	-72.83	-32.83	-40.00	-63.98	-8.85	HORIZONTAL
3	179.38	-71.35	-31.35	-40.00	-62.48	-8.87	HORIZONTAL
4	198.78	-70.51	-30.51	-40.00	-60.06	-10.45	HORIZONTAL
5	220.12	-73.24	-33.24	-40.00	-62.89	-10.35	HORIZONTAL
6	245.34	-71.96	-31.96	-40.00	-61.87	-10.09	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-69.31	-29.31	-40.00	-57.10	-12.21	VERTICAL
2	57.16	-69.98	-29.98	-40.00	-53.28	-16.70	VERTICAL
3	99.84	-70.12	-30.12	-40.00	-61.41	-8.71	VERTICAL
4	109.54	-68.83	-28.83	-40.00	-61.29	-7.54	VERTICAL
5	179.38	-70.36	-30.36	-40.00	-61.49	-8.87	VERTICAL
6	198.78	-70.83	-30.83	-40.00	-60.38	-10.45	VERTICAL

Configurations	20MHz / QPSK / 3690 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	138.64	-72.93	-32.93	-40.00	-66.75	-6.18	HORIZONTAL
2	159.98	-71.93	-31.93	-40.00	-63.08	-8.85	HORIZONTAL
3	179.38	-71.72	-31.72	-40.00	-62.85	-8.87	HORIZONTAL
4	198.78	-70.85	-30.85	-40.00	-60.40	-10.45	HORIZONTAL
5	220.12	-73.04	-33.04	-40.00	-62.69	-10.35	HORIZONTAL
6	245.34	-69.80	-29.80	-40.00	-59.71	-10.09	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-67.66	-27.66	-40.00	-55.45	-12.21	VERTICAL
2	45.52	-68.93	-28.93	-40.00	-53.62	-15.31	VERTICAL
3	57.16	-68.69	-28.69	-40.00	-51.99	-16.70	VERTICAL
4	109.54	-68.75	-28.75	-40.00	-61.21	-7.54	VERTICAL
5	198.78	-69.82	-29.82	-40.00	-59.37	-10.45	VERTICAL
6	730.34	-63.45	-23.45	-40.00	-61.90	-1.55	VERTICAL



Field Strength of Spurious Radiation (Above 1GHz) - Harmonic

Configurations	20MHz / QPSK / 3560 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	3500.00	-45.32	-5.32	-40.00	-51.24	5.92	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	3500.00	-51.76	-11.76	-40.00	-57.68	5.92	VERTICAL



Configurations	20MHz / QPSK / 3625 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1597.48	-55.88	-15.88	-40.00	-52.41	-3.47	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1597.48	-63.42	-23.42	-40.00	-59.95	-3.47	VERTICAL

Configurations	20MHz / QPSK / 3690 MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	3724.60	-42.67	-2.67	-40.00	-49.45	6.78	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	3727.78	-48.09	-8.09	-40.00	-54.87	6.78	VERTICAL

<Multi-carrier and/or CA>

Field Strength of Spurious Radiation (30MHz ~ 1GHz)

Configurations	20MHz+20MHz / QPSK / 3560+3580MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	198.78	-70.21	-30.21	-40.00	-59.76	-10.45	HORIZONTAL
2	245.34	-69.05	-29.05	-40.00	-58.96	-10.09	HORIZONTAL
3	730.34	-65.40	-25.40	-40.00	-63.85	-1.55	HORIZONTAL
4	736.16	-64.58	-24.58	-40.00	-63.02	-1.56	HORIZONTAL
5	854.50	-72.69	-32.69	-40.00	-72.69	0.00	HORIZONTAL
6	891.36	-70.95	-30.95	-40.00	-72.02	1.07	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-65.58	-25.58	-40.00	-53.37	-12.21	VERTICAL
2	45.52	-68.75	-28.75	-40.00	-53.44	-15.31	VERTICAL
3	109.54	-68.21	-28.21	-40.00	-60.67	-7.54	VERTICAL
4	198.78	-69.28	-29.28	-40.00	-58.83	-10.45	VERTICAL
5	745.86	-73.89	-33.89	-40.00	-72.31	-1.58	VERTICAL
6	891.36	-66.15	-26.15	-40.00	-67.22	1.07	VERTICAL

Configurations	20MHz+20MHz / QPSK / 3615+3635MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	159.98	-72.62	-32.62	-40.00	-63.77	-8.85	HORIZONTAL
2	179.38	-71.48	-31.48	-40.00	-62.61	-8.87	HORIZONTAL
3	198.78	-69.94	-29.94	-40.00	-59.49	-10.45	HORIZONTAL
4	245.34	-72.12	-32.12	-40.00	-62.03	-10.09	HORIZONTAL
5	350.10	-71.35	-31.35	-40.00	-64.52	-6.83	HORIZONTAL
6	895.24	-70.07	-30.07	-40.00	-71.23	1.16	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-65.84	-25.84	-40.00	-53.63	-12.21	VERTICAL
2	45.52	-69.02	-29.02	-40.00	-53.71	-15.31	VERTICAL
3	109.54	-69.27	-29.27	-40.00	-61.73	-7.54	VERTICAL
4	179.38	-70.80	-30.80	-40.00	-61.93	-8.87	VERTICAL
5	730.34	-74.05	-34.05	-40.00	-72.50	-1.55	VERTICAL
6	887.48	-68.52	-28.52	-40.00	-69.50	0.98	VERTICAL

Configurations	20MHz+20MHz / QPSK / 3670+3690MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	159.98	-72.41	-32.41	-40.00	-63.56	-8.85	HORIZONTAL
2	179.38	-71.46	-31.46	-40.00	-62.59	-8.87	HORIZONTAL
3	198.78	-70.41	-30.41	-40.00	-59.96	-10.45	HORIZONTAL
4	245.34	-71.99	-31.99	-40.00	-61.90	-10.09	HORIZONTAL
5	350.10	-71.91	-31.91	-40.00	-65.08	-6.83	HORIZONTAL
6	887.48	-70.76	-30.76	-40.00	-71.74	0.98	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-65.74	-25.74	-40.00	-53.53	-12.21	VERTICAL
2	55.22	-68.64	-28.64	-40.00	-51.93	-16.71	VERTICAL
3	109.54	-68.12	-28.12	-40.00	-60.58	-7.54	VERTICAL
4	179.38	-71.18	-31.18	-40.00	-62.31	-8.87	VERTICAL
5	198.78	-70.06	-30.06	-40.00	-59.61	-10.45	VERTICAL
6	887.48	-70.68	-30.68	-40.00	-71.66	0.98	VERTICAL

Configurations	20MHz+20MHz / QPSK / 3560+3690MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	119.24	-73.24	-33.24	-40.00	-66.82	-6.42	HORIZONTAL
2	159.98	-72.37	-32.37	-40.00	-63.52	-8.85	HORIZONTAL
3	198.78	-69.83	-29.83	-40.00	-59.38	-10.45	HORIZONTAL
4	255.04	-72.66	-32.66	-40.00	-62.81	-9.85	HORIZONTAL
5	350.10	-71.70	-31.70	-40.00	-64.87	-6.83	HORIZONTAL
6	889.42	-67.90	-27.90	-40.00	-68.97	1.07	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.82	-66.10	-26.10	-40.00	-53.89	-12.21	VERTICAL
2	57.16	-68.00	-28.00	-40.00	-51.30	-16.70	VERTICAL
3	109.54	-68.51	-28.51	-40.00	-60.97	-7.54	VERTICAL
4	730.34	-61.83	-21.83	-40.00	-60.28	-1.55	VERTICAL
5	740.04	-62.41	-22.41	-40.00	-60.84	-1.57	VERTICAL
6	893.30	-67.48	-27.48	-40.00	-68.64	1.16	VERTICAL

Field Strength of Spurious Radiation (Above 1GHz) - Harmonic

Configurations	20MHz+20MHz / QPSK / 3560+3580MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1843.20	-55.51	-15.51	-40.00	-54.84	-0.67	HORIZONTAL
2	7119.96	-54.62	-14.62	-40.00	-69.35	14.73	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1843.20	-62.62	-22.62	-40.00	-61.95	-0.67	VERTICAL
2	7115.00	-60.44	-20.44	-40.00	-75.17	14.73	VERTICAL



Configurations	20MHz+20MHz / QPSK / 3615+3635MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7175.00	-62.15	-22.15	-40.00	-76.93	14.78	HORIZONTAL
2	7192.50	-61.96	-21.96	-40.00	-76.76	14.80	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7172.50	-62.15	-22.15	-40.00	-76.93	14.78	VERTICAL
2	7192.50	-62.04	-22.04	-40.00	-76.84	14.80	VERTICAL

Configurations	20MHz+20MHz / QPSK / 3670+3690MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7340.10	-57.84	-17.84	-40.00	-72.77	14.93	HORIZONTAL
2	7381.56	-56.38	-16.38	-40.00	-71.35	14.97	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7340.00	-58.87	-18.87	-40.00	-73.80	14.93	VERTICAL
2	7380.97	-59.48	-19.48	-40.00	-74.45	14.97	VERTICAL

Configurations	20MHz+20MHz / QPSK / 3560+3690MHz
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Horizontal

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7119.88	-55.07	-15.07	-40.00	-69.80	14.73	HORIZONTAL
2	7380.84	-56.41	-16.41	-40.00	-71.38	14.97	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	7119.97	-57.48	-17.48	-40.00	-72.21	14.73	VERTICAL
2	7378.82	-59.22	-19.22	-40.00	-74.17	14.95	VERTICAL

<Single-carrier> Summary

Mode	Result	Ch (Hz)	Fi (Hz)	Fh (Hz)	ppm	Limit (Fi,Fh,ppm)	Port	Remark
Band 48	-	-	-	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	3.695G	3.690538G	3.69947G	1.012	3.55G,3.7G,Inf	1	-
LTE_10MHz_Nss1,16QAM_2TX	Pass	3.555G	3.550519G	3.559453G	-3.845	3.55G,3.7G,Inf	1	-
LTE_10MHz_Nss1,64QAM_2TX	Pass	3.695G	3.69055G	3.699465G	2.037	3.55G,3.7G,Inf	1	-
LTE_20MHz_Nss1,QPSK_2TX	Pass	3.56G	3.551087G	3.568893G	-2.725	3.55G,3.7G,Inf	1	-
LTE_20MHz_Nss1,16QAM_2TX	Pass	3.56G	3.551087G	3.568887G	-3.611	3.55G,3.7G,Inf	1	-
LTE_20MHz_Nss1,64QAM_2TX	Pass	3.56G	3.551088G	3.568891G	-2.972	3.55G,3.7G,Inf	1	-

Result

Mode	Result	Ch (Hz)	Fi (Hz)	Fh (Hz)	ppm	Limit (Fi,Fh,ppm)	Port	Remark
Band 48_LTE_10MHz_Nss1,QPSK_2TX	-	-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0_-40°C	Pass	3.555G	3.550534G	3.559456G	-1.501	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-30°C	Pass	3.555G	3.550542G	3.559457G	-0.158	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-20°C	Pass	3.555G	3.550531G	3.559447G	-3.07	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-10°C	Pass	3.555G	3.550534G	3.559452G	-1.873	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_0°C	Pass	3.555G	3.550537G	3.55946G	-0.466	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_10°C	Pass	3.555G	3.55054G	3.559449G	-1.534	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_20°C	Pass	3.555G	3.550542G	3.559463G	0.673	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_30°C	Pass	3.555G	3.550533G	3.559446G	-2.87	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_40°C	Pass	3.555G	3.550542G	3.559463G	0.776	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_50°C	Pass	3.555G	3.550536G	3.559461G	-0.471	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_60°C	Pass	3.555G	3.550537G	3.559453G	-1.438	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_65°C	Pass	3.555G	3.550536G	3.55946G	-0.598	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_126.5V	Pass	3.555G	3.55054G	3.559455G	-0.659	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_93.5V	Pass	3.555G	3.550533G	3.559455G	-1.736	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-40°C	Pass	3.695G	3.690535G	3.699456G	-1.288	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-30°C	Pass	3.695G	3.690531G	3.699459G	-1.239	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-20°C	Pass	3.695G	3.690538G	3.699463G	0.115	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-10°C	Pass	3.695G	3.690535G	3.699456G	-1.19	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_0°C	Pass	3.695G	3.690531G	3.699457G	-1.552	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_10°C	Pass	3.695G	3.690535G	3.699457G	-1.068	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_20°C	Pass	3.695G	3.690537G	3.699452G	-1.527	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_30°C	Pass	3.695G	3.690544G	3.699455G	-0.067	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_40°C	Pass	3.695G	3.690531G	3.699455G	-1.882	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_50°C	Pass	3.695G	3.690538G	3.69947G	1.012	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_60°C	Pass	3.695G	3.690534G	3.699447G	-2.571	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_65°C	Pass	3.695G	3.690538G	3.699468G	0.755	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_126.5V	Pass	3.695G	3.690543G	3.699461G	0.519	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_93.5V	Pass	3.695G	3.690535G	3.699455G	-1.307	3.55G,3.7G,Inf	1	-
Band 48_LTE_10MHz_Nss1,16QAM_2TX	-	-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0_-40°C	Pass	3.555G	3.55053G	3.559464G	-0.942	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-30°C	Pass	3.555G	3.550527G	3.55946G	-1.934	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-20°C	Pass	3.555G	3.550531G	3.559448G	-3.057	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-10°C	Pass	3.555G	3.550528G	3.559451G	-2.869	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_0°C	Pass	3.555G	3.550532G	3.559461G	-1.089	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_10°C	Pass	3.555G	3.550533G	3.559451G	-2.263	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_20°C	Pass	3.555G	3.550533G	3.559447G	-2.777	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_30°C	Pass	3.555G	3.550537G	3.559446G	-2.365	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_40°C	Pass	3.555G	3.550535G	3.559433G	-4.468	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_50°C	Pass	3.555G	3.550532G	3.559444G	-3.394	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_60°C	Pass	3.555G	3.550529G	3.559457G	-1.975	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_65°C	Pass	3.555G	3.550519G	3.559453G	-3.845	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_126.5V	Pass	3.555G	3.550527G	3.55946G	-1.834	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_93.5V	Pass	3.555G	3.550532G	3.559449G	-2.724	3.55G,3.7G,Inf	1	-

Mode	Result	Ch (Hz)	FI (Hz)	Fh (Hz)	ppm	Limit (FI,Fh,ppm)	Port	Remark
3695MHz_RB 50,#RB 0_-40°C	Pass	3.695G	3.690529G	3.699458G	-1.868	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-30°C	Pass	3.695G	3.690537G	3.699436G	-3.685	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-20°C	Pass	3.695G	3.690533G	3.699439G	-3.694	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-10°C	Pass	3.695G	3.690537G	3.699456G	-1.024	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_0°C	Pass	3.695G	3.690534G	3.699447G	-2.576	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_10°C	Pass	3.695G	3.690529G	3.699447G	-3.268	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_20°C	Pass	3.695G	3.690534G	3.699445G	-2.758	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_30°C	Pass	3.695G	3.690532G	3.69945G	-2.437	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_40°C	Pass	3.695G	3.690531G	3.699462G	-0.911	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_50°C	Pass	3.695G	3.69053G	3.699452G	-2.361	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_60°C	Pass	3.695G	3.690536G	3.699452G	-1.606	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_65°C	Pass	3.695G	3.690531G	3.699452G	-2.317	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_126.5V	Pass	3.695G	3.690526G	3.699462G	-1.542	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_93.5V	Pass	3.695G	3.690532G	3.699451G	-2.255	3.55G,3.7G,Inf	1	-
Band 48_LTE_10MHz_Nss1,64QAM_2TX	-	-	-	-	-	-	-	-
3555MHz_RB 50,#RB 0_-40°C	Pass	3.555G	3.550543G	3.559468G	1.544	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-30°C	Pass	3.555G	3.550538G	3.559466G	0.64	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-20°C	Pass	3.555G	3.550538G	3.559464G	0.306	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_-10°C	Pass	3.555G	3.550546G	3.559463G	1.292	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_0°C	Pass	3.555G	3.550542G	3.559457G	-0.078	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_10°C	Pass	3.555G	3.550544G	3.55946G	0.536	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_20°C	Pass	3.555G	3.550537G	3.559465G	0.175	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_30°C	Pass	3.555G	3.550539G	3.559455G	-0.793	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_40°C	Pass	3.555G	3.550544G	3.55947G	1.93	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_50°C	Pass	3.555G	3.550546G	3.559459G	0.693	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_60°C	Pass	3.555G	3.55054G	3.559461G	0.076	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_65°C	Pass	3.555G	3.550542G	3.559466G	1.041	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_126.5V	Pass	3.555G	3.550539G	3.55946G	-0.128	3.55G,3.7G,Inf	1	-
3555MHz_RB 50,#RB 0_93.5V	Pass	3.555G	3.550544G	3.559458G	0.336	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-40°C	Pass	3.695G	3.69055G	3.699465G	2.037	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-30°C	Pass	3.695G	3.690547G	3.699459G	0.779	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-20°C	Pass	3.695G	3.690537G	3.699461G	-0.299	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_-10°C	Pass	3.695G	3.690545G	3.699464G	1.11	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_0°C	Pass	3.695G	3.690551G	3.699465G	2.124	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_10°C	Pass	3.695G	3.69054G	3.699457G	-0.374	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_20°C	Pass	3.695G	3.690546G	3.699463G	1.174	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_30°C	Pass	3.695G	3.690536G	3.699459G	-0.785	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_40°C	Pass	3.695G	3.690549G	3.69946G	1.219	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_50°C	Pass	3.695G	3.69054G	3.699452G	-0.98	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_60°C	Pass	3.695G	3.690548G	3.699458G	0.773	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_65°C	Pass	3.695G	3.690538G	3.699457G	-0.631	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_126.5V	Pass	3.695G	3.690547G	3.699455G	0.298	3.55G,3.7G,Inf	1	-
3695MHz_RB 50,#RB 0_93.5V	Pass	3.695G	3.690551G	3.699464G	1.91	3.55G,3.7G,Inf	1	-
Band 48_LTE_20MHz_Nss1,QPSK_2TX	-	-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0_-40°C	Pass	3.56G	3.551095G	3.568898G	-1.04	3.55G,3.7G,Inf	1	-

Mode	Result	Ch (Hz)	Fi (Hz)	Fh (Hz)	ppm	Limit (Fi,Fh,ppm)	Port	Remark
3560MHz_RB 100,#RB 0_-30°C	Pass	3.56G	3.551099G	3.568892G	-1.241	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-20°C	Pass	3.56G	3.551098G	3.568898G	-0.558	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-10°C	Pass	3.56G	3.5511G	3.568896G	-0.541	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_0°C	Pass	3.56G	3.551104G	3.568886G	-1.336	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_10°C	Pass	3.56G	3.5511G	3.568887G	-1.806	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_20°C	Pass	3.56G	3.551094G	3.568889G	-2.362	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_30°C	Pass	3.56G	3.551099G	3.568887G	-2.025	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_40°C	Pass	3.56G	3.551099G	3.568892G	-1.188	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_50°C	Pass	3.56G	3.551087G	3.568893G	-2.725	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_60°C	Pass	3.56G	3.551101G	3.568911G	1.61	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_65°C	Pass	3.56G	3.551097G	3.568889G	-1.908	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_126.5V	Pass	3.56G	3.551106G	3.568884G	-1.525	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_93.5V	Pass	3.56G	3.551098G	3.568891G	-1.473	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-40°C	Pass	3.69G	3.681103G	3.698893G	-0.584	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-30°C	Pass	3.69G	3.681101G	3.69891G	1.393	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-20°C	Pass	3.69G	3.681098G	3.698882G	-2.729	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-10°C	Pass	3.69G	3.681106G	3.698891G	-0.406	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_0°C	Pass	3.69G	3.681103G	3.698891G	-0.879	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_10°C	Pass	3.69G	3.681094G	3.698907G	0.173	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_20°C	Pass	3.69G	3.681099G	3.6989G	-0.182	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_30°C	Pass	3.69G	3.6811G	3.698877G	-3.104	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_40°C	Pass	3.69G	3.681092G	3.698892G	-2.141	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_50°C	Pass	3.69G	3.681101G	3.698886G	-1.76	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_60°C	Pass	3.69G	3.681103G	3.698879G	-2.454	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_65°C	Pass	3.69G	3.681099G	3.698892G	-1.189	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_126.5V	Pass	3.69G	3.681104G	3.698897G	0.107	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_93.5V	Pass	3.69G	3.681098G	3.698885G	-2.315	3.55G,3.7G,Inf	1	-
Band 48_LTE_20MHz_Nss1,16QAM_2TX	-	-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0_-40°C	Pass	3.56G	3.551099G	3.568889G	-1.611	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-30°C	Pass	3.56G	3.551095G	3.568898G	-1.071	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-20°C	Pass	3.56G	3.551095G	3.568881G	-3.339	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-10°C	Pass	3.56G	3.551109G	3.568876G	-1.977	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_0°C	Pass	3.56G	3.551101G	3.568894G	-0.789	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_10°C	Pass	3.56G	3.551096G	3.568896G	-1.183	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_20°C	Pass	3.56G	3.551095G	3.56889G	-2.219	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_30°C	Pass	3.56G	3.551098G	3.568876G	-3.64	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_40°C	Pass	3.56G	3.551103G	3.568885G	-1.594	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_50°C	Pass	3.56G	3.551102G	3.56889G	-1.04	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_60°C	Pass	3.56G	3.551093G	3.5689G	-0.914	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_65°C	Pass	3.56G	3.551097G	3.568892G	-1.512	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_126.5V	Pass	3.56G	3.551102G	3.568887G	-1.517	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_93.5V	Pass	3.56G	3.551087G	3.568887G	-3.611	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-40°C	Pass	3.69G	3.681098G	3.698896G	-0.848	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-30°C	Pass	3.69G	3.681105G	3.698902G	0.919	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-20°C	Pass	3.69G	3.681102G	3.698883G	-2.071	3.55G,3.7G,Inf	1	-

Mode	Result	Ch (Hz)	Fi (Hz)	Fh (Hz)	ppm	Limit (Fi,Fh,ppm)	Port	Remark
3690MHz_RB 100,#RB 0_-10°C	Pass	3.69G	3.681095G	3.698891G	-1.911	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_0°C	Pass	3.69G	3.681092G	3.698894G	-1.823	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_10°C	Pass	3.69G	3.681101G	3.698876G	-3.121	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_20°C	Pass	3.69G	3.681098G	3.69889G	-1.694	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_30°C	Pass	3.69G	3.681099G	3.698883G	-2.469	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_40°C	Pass	3.69G	3.681101G	3.698895G	-0.617	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_50°C	Pass	3.69G	3.681098G	3.698892G	-1.412	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_60°C	Pass	3.69G	3.681108G	3.698883G	-1.16	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_65°C	Pass	3.69G	3.681106G	3.698893G	-0.046	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_126.5V	Pass	3.69G	3.681094G	3.698891G	-2.09	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_93.5V	Pass	3.69G	3.681103G	3.698891G	-0.812	3.55G,3.7G,Inf	1	-
Band 48_LTE_20MHz_Nss1,64QAM_2TX	-	-	-	-	-	-	-	-
3560MHz_RB 100,#RB 0_-40°C	Pass	3.56G	3.551105G	3.568888G	-0.89	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-30°C	Pass	3.56G	3.551098G	3.568891G	-1.59	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-20°C	Pass	3.56G	3.551099G	3.568881G	-2.779	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_-10°C	Pass	3.56G	3.551097G	3.568883G	-2.815	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_0°C	Pass	3.56G	3.551109G	3.568904G	1.823	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_10°C	Pass	3.56G	3.551088G	3.568891G	-2.972	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_20°C	Pass	3.56G	3.551088G	3.568889G	-3.265	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_30°C	Pass	3.56G	3.5511G	3.568889G	-1.555	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_40°C	Pass	3.56G	3.551098G	3.568891G	-1.546	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_50°C	Pass	3.56G	3.5511G	3.568897G	-0.433	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_60°C	Pass	3.56G	3.551096G	3.568883G	-2.911	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_65°C	Pass	3.56G	3.551091G	3.568892G	-2.397	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_126.5V	Pass	3.56G	3.551096G	3.568891G	-1.787	3.55G,3.7G,Inf	1	-
3560MHz_RB 100,#RB 0_93.5V	Pass	3.56G	3.551098G	3.568907G	0.704	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-40°C	Pass	3.69G	3.681114G	3.698891G	0.713	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-30°C	Pass	3.69G	3.681108G	3.698893G	0.1	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-20°C	Pass	3.69G	3.681091G	3.698887G	-3.019	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_-10°C	Pass	3.69G	3.681099G	3.698898G	-0.333	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_0°C	Pass	3.69G	3.681095G	3.698895G	-1.357	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_10°C	Pass	3.69G	3.6811G	3.698886G	-1.824	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_20°C	Pass	3.69G	3.681106G	3.698896G	0.291	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_30°C	Pass	3.69G	3.681104G	3.698896G	0.007	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_40°C	Pass	3.69G	3.681096G	3.698891G	-1.77	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_50°C	Pass	3.69G	3.681109G	3.698901G	1.382	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_60°C	Pass	3.69G	3.681108G	3.698892G	-0.034	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_65°C	Pass	3.69G	3.681097G	3.698897G	-0.865	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_126.5V	Pass	3.69G	3.681095G	3.69889G	-2.041	3.55G,3.7G,Inf	1	-
3690MHz_RB 100,#RB 0_93.5V	Pass	3.69G	3.681097G	3.698883G	-2.643	3.55G,3.7G,Inf	1	-

**<Multi-carrier and/or CA>****Summary**

Mode	Result	Ch (Hz)	F _I (Hz)	F _H (Hz)	ppm	Limit (F _I ,F _H ,ppm)	Port	Remark
Band 48	-	-	-	-	-	-	-	-
LTE_20MHz+20MHz_Nss1,QPSK_4TX	Pass	3.56G	3.551086G	3.568878G	-5.062	3.55G,3.7G,Inf	1	-
LTE_20MHz+20MHz_Nss1,16QAM_4TX	Pass	3.56G	3.551085G	3.568897G	-2.57	3.55G,3.7G,Inf	1	-
LTE_20MHz+20MHz_Nss1,64QAM_4TX	Pass	3.56G	3.551083G	3.568897G	-2.84	3.55G,3.7G,Inf	1	-

Result

Mode	Result	Ch (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
Band 48_LTE_20MHz+20MHz_Nss1,QPSK_4TX	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.56G	3.551098G	3.568888G	-1.879	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.56G	3.551087G	3.568885G	-3.893	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.56G	3.551108G	3.568867G	-3.456	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.56G	3.551086G	3.568878G	-5.062	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.56G	3.551105G	3.568891G	-0.595	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.56G	3.551107G	3.568884G	-1.227	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.56G	3.551096G	3.568887G	-2.331	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.56G	3.551094G	3.568895G	-1.466	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.56G	3.551096G	3.56889G	-1.909	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.56G	3.551098G	3.568889G	-1.822	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.56G	3.551096G	3.568878G	-3.691	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.56G	3.551099G	3.568875G	-3.593	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.56G	3.551111G	3.568884G	-0.692	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.56G	3.551096G	3.568872G	-4.441	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.69G	3.681103G	3.698901G	0.443	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.69G	3.681109G	3.698873G	-2.348	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.69G	3.681082G	3.698899G	-2.626	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.69G	3.681106G	3.698897G	0.364	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.69G	3.681102G	3.698882G	-2.164	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.69G	3.681091G	3.698893G	-2.184	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.69G	3.681092G	3.698885G	-3.062	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.69G	3.681109G	3.698893G	0.282	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.69G	3.68109G	3.698889G	-2.863	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.69G	3.681108G	3.698892G	-0.099	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.69G	3.681102G	3.698886G	-1.642	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.69G	3.681088G	3.698889G	-3.126	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.69G	3.681112G	3.69889G	0.264	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.69G	3.68109G	3.698879G	-4.195	3.55G,3.7G,Inf	1	-
Band 48_LTE_20MHz+20MHz_Nss1,16QAM_4TX	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.56G	3.551093G	3.568905G	-0.267	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.56G	3.551101G	3.568906G	0.996	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.56G	3.551102G	3.56889G	-1.151	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.56G	3.551102G	3.568903G	0.708	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.56G	3.551085G	3.568897G	-2.57	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.56G	3.551102G	3.568895G	-0.414	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.56G	3.551094G	3.568897G	-1.26	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.56G	3.551094G	3.568888G	-2.505	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.56G	3.55111G	3.568873G	-2.44	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.56G	3.551087G	3.568904G	-1.275	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.56G	3.55111G	3.568874G	-2.181	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.56G	3.55109G	3.568888G	-3.042	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.56G	3.551092G	3.568896G	-1.606	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.56G	3.551106G	3.568893G	-0.029	3.55G,3.7G,Inf	1	-



Frequency Stability Result

Appendix I.2

Mode	Result	Ch (Hz)	Fi (Hz)	Fh (Hz)	ppm	Limit (Fi,Fh,ppm)	Port	Remark
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.69G	3.6811G	3.698897G	-0.425	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.69G	3.6811G	3.698891G	-1.295	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.69G	3.681102G	3.698887G	-1.582	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.69G	3.681099G	3.698895G	-0.79	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.69G	3.681104G	3.69889G	0.564	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.69G	3.681093G	3.698889G	-2.419	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.69G	3.681101G	3.698895G	-0.557	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.69G	3.681099G	3.698893G	-1.111	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.69G	3.681104G	3.698907G	1.422	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.69G	3.681102G	3.698897G	-0.154	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.69G	3.681101G	3.698898G	-0.118	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.69G	3.681101G	3.698896G	-0.442	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.69G	3.681103G	3.69889G	-0.854	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.69G	3.681108G	3.698893G	0.064	3.55G,3.7G,Inf	1	-
Band 48_LTE_20MHz+20MHz_Nss1,64QAM_4TX	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.56G	3.5511G	3.568893G	-0.963	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.56G	3.551095G	3.568904G	-0.185	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.56G	3.551087G	3.568908G	-0.719	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.56G	3.551094G	3.568898G	-1.107	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.56G	3.55109G	3.56891G	-0.003	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.56G	3.551102G	3.568898G	0.059	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.56G	3.551103G	3.568907G	1.279	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.56G	3.551086G	3.568892G	-2.963	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.56G	3.551091G	3.568896G	-1.849	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.56G	3.551089G	3.568906G	-0.754	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.56G	3.551093G	3.568903G	-0.522	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.56G	3.551083G	3.568897G	-2.84	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.56G	3.551093G	3.568903G	-0.6	3.55G,3.7G,Inf	1	-
P#3560MHz,#3690MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.56G	3.551103G	3.5689G	0.436	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-40°C	Pass	3.69G	3.681107G	3.698905G	1.681	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-30°C	Pass	3.69G	3.681101G	3.6989G	0.171	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-20°C	Pass	3.69G	3.681085G	3.698894G	-2.735	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_-10°C	Pass	3.69G	3.681094G	3.698895G	-1.415	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_0°C	Pass	3.69G	3.681101G	3.698898G	-0.157	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_10°C	Pass	3.69G	3.681099G	3.698894G	-0.972	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_20°C	Pass	3.69G	3.681107G	3.698894G	0.106	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_30°C	Pass	3.69G	3.681098G	3.698901G	-0.054	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_40°C	Pass	3.69G	3.681095G	3.69891G	0.672	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_50°C	Pass	3.69G	3.681105G	3.698905G	1.419	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_60°C	Pass	3.69G	3.681099G	3.698899G	-0.323	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_65°C	Pass	3.69G	3.681093G	3.698903G	-0.578	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_126.5V	Pass	3.69G	3.681105G	3.6989G	0.757	3.55G,3.7G,Inf	1	-
P#3690MHz,#3560MHz_RB 100,#RB 0+RB 100,#RB 0_93.5V	Pass	3.69G	3.681099G	3.698899G	-0.155	3.55G,3.7G,Inf	1	-