FCC Test Report

FCC ID	:	**MXF-WLTFGT145CBSD**
Equipment	:	**WLTFGT-145ACN LTE Cat 12 B48 Indoor CPE**
Model No.	:	**WLTFGT-145ACN**
Brand Name	:	**Gemtek**
Applicant	:	**Gemtek Technology Co., Ltd.**
Address	:	**No. 15-1 Zhonghua Road, Hsinchu Industrial Park, Hukou, Hsinchu, Taiwan, 30352.**
Standard	:	**47 CFR FCC Part 96**
Type	:	☐ **End User Device** ☐ **Category A CBSD** ☐ **Category B CBSD** ☒ **CPE-CBSD**
Received Date	:	**Nov. 19, 2020**
Tested Date	:	**Nov. 30, 2020 ~ Jan. 08, 2021**

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

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FG0N1901AC	Rev. 01	Initial issue	Feb. 03, 2021
FG0N1901AC	Rev. 02	Corrected the type of EUT of P1	Feb. 18, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 96.41(b)	Maximum RF Power Output EIRP	Power[dBm/10MHz]: 28.24	Pass
96.41(b)	Maximum Power Spectral Density	Meet the requirement of limit	Pass
96.41(g)	Peak to Average Ratio	Meet the requirement of limit	Pass
2.1053 / 96.41(e)	Radiated Spurious Emission	Meet the requirement of limit	Pass
2.1051 / 96.41(e)	Conducted Spurious Emission	Meet the requirement of limit	Pass
2.1051 / 96.41(e)	Band Edge	Meet the requirement of limit	Pass
2.1049	Emission Bandwidth	Meet the requirement of limit	Pass
2.1055	Frequency Stability	Meet the requirement of limit	Pass
96.41(f)	Reception Limits	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

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

1.1.2 Antenna Details

Ant.	Type	Connector	Gain (dBi)	Remark
1	Dipole	IPEX	4	---

1.1.3 EUT Operational Condition

Supply Voltage	12Vdc from adapter
Operational Climatic	0°C ~40°C

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: MOSO Model: MSA-C 1500CS12.0-18G-US Power Rating: I/P: 100-240Vac, 50/60Hz, 0.6A max O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded without core.
2	AC adapter	Brand: APD Model: WB-18Q12FU Power Rating: I/P: 100-240Vac, 50-60Hz, 0.6A max O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded without core.
3	RJ45	1.5m non-shielded, without core.

1.1.5 Maximum EIRP and Emission Designator

CDD Mode			
Channel Bandwidth (MHz)	**Modulation**	**Maximum EIRP (W)**	**Emission Designator**
10	QPSK	0.667	8M93G7D
10	16QAM	0.547	8M93W7D
10	64QAM	0.428	8M93W7D
20	QPSK	0.700	17M8G7D
20	16QAM	0.535	17M8W7D
20	64QAM	0.428	17M8W7D

CA Mode			
Channel Bandwidth (MHz)	**Modulation**	**Maximum EIRP (W)**	**Emission Designator**
10+10	QPSK	0.634	17M8G7D
10+10	16QAM	0.635	17M9W7D
10+10	64QAM	0.635	17M9W7D
10+20	QPSK	0.693	26M7G7D
10+20	16QAM	0.687	26M7W7D
10+20	64QAM	0.685	26M8W7D
20+10	QPSK	0.644	26M8G7D
20+10	16QAM	0.637	26M8W7D
20+10	64QAM	0.637	26M8W7D
20+20	QPSK	0.692	35M7G7D
20+20	16QAM	0.692	35M7W7D
20+20	64QAM	0.690	35M7W7D

1.1.6 Operating Channel List

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

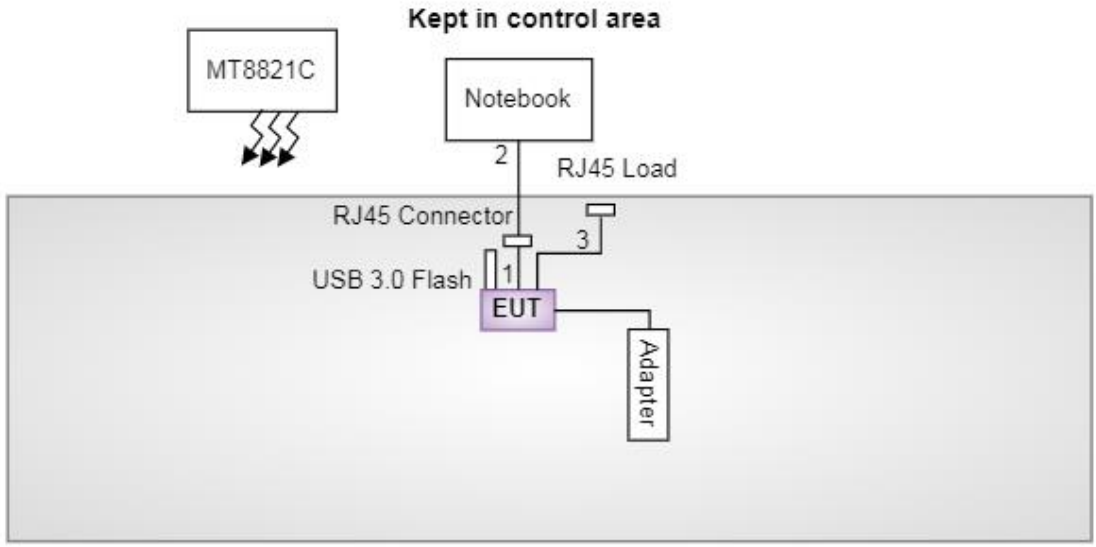
CA Mode		
Channel Bandwidth (MHz)	**Test Channel**	**Frequency (MHz)**
10+10	55290+56690	3555.0+3695.0
10+20	55290+56640	3555.0+3690.0
20+10	55340+56690	3560.0+3695.0
20+20	55340+56640	3560.0+3690.0

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	RJ45 Load	ICC	---	---	---
3	USB 3.0 Flash	Transcend	JetFlash 700	---	---
4	Radio Communication Analyzer	Anritsu	MT8821C	---	---

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1	RJ45, 1.5m non-shielded.
2	RJ45, 10m non-shielded.
3	RJ45, 1m non-shielded with load.

1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 30, 2020				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Aug. 13, 2020	Aug. 12, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jan. 07, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 25, 2020	Sep. 24, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jan. 08, 2021				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 06, 2020	May 05, 2021
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
Signal Generator	R&S	SMB100A	175727	Jan. 07, 2021	Jan. 06, 2022
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	May 06, 2020	May 05, 2021
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	May 04, 2020	May 03, 2021
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 09, 2020	Nov. 08, 2021
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 04, 2020	Dec. 03, 2021
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Jul. 09, 2020	Jul. 08, 2021
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 15, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 06, 2020	May 05, 2021
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
Signal Generator	R&S	SMB100A	175727	Dec. 27, 2019	Dec. 26, 2020
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	May 06, 2020	May 05, 2021
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	May 04, 2020	May 03, 2021
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 09, 2020	Nov. 08, 2021
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 04, 2020	Dec. 03, 2021
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 96
ANSI C63.26-2015
ANSI C63.4-2014

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

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

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	03CH01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

2.2 The Worst Test Modes and Channel Details

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

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

3 Test Results

3.1 Output Power

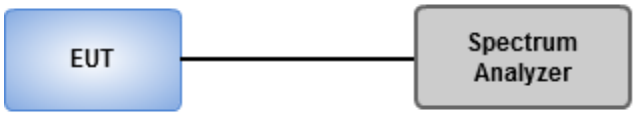
3.1.1 Limit of Output Power

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

3.1.2 Test Procedures

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

3.1.3 Test Setup



Ambient Condition	18-22°C / 64-66%	**Tested By**	Aska Huang

3.1.4 Duty Cycle and Duty Factor

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

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

3.1.5 Test Result of EIRP (CDD Mode)

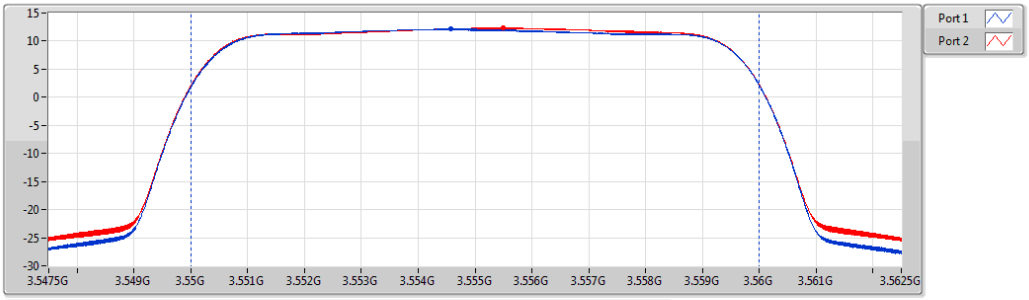
Single-carrier / Power @10 MHz
Result

Mode	Result	DG (dBi)	Port 1 (dBm/10MHz)	Port 2 (dBm/10MHz)	Power (dBm/10MHz)	EIRP (dBm/10MHz)	EIRP Lim. (dBm/10MHz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	4.00	20.84	21.00	23.93	27.93	30
3625MHz_QPSK_RB 50,#RB 0	Pass	4.00	21.16	21.30	24.24	28.24	30
3695MHz_QPSK_RB 50,#RB 0	Pass	4.00	20.83	21.42	24.15	28.15	30
3555MHz_16QAM_RB 50,#RB 0	Pass	4.00	19.94	20.24	23.10	27.10	30
3625MHz_16QAM_RB 50,#RB 0	Pass	4.00	20.31	20.43	23.38	27.38	30
3695MHz_16QAM_RB 50,#RB 0	Pass	4.00	19.90	20.52	23.23	27.23	30
3555MHz_64QAM_RB 50,#RB 0	Pass	4.00	18.99	19.19	22.10	26.10	30
3625MHz_64QAM_RB 50,#RB 0	Pass	4.00	19.32	19.27	22.31	26.31	30
3695MHz_64QAM_RB 50,#RB 0	Pass	4.00	19.04	19.51	22.29	26.29	30
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	4.00	18.74	18.89	21.83	25.83	30
3625MHz_QPSK_RB 100,#RB 0	Pass	4.00	18.97	19.29	22.14	26.14	30
3690MHz_QPSK_RB 100,#RB 0	Pass	4.00	18.62	19.71	22.21	26.21	30
3560MHz_16QAM_RB 100,#RB 0	Pass	4.00	17.69	18.00	20.86	24.86	30
3625MHz_16QAM_RB 100,#RB 0	Pass	4.00	17.93	18.17	21.06	25.06	30
3690MHz_16QAM_RB 100,#RB 0	Pass	4.00	17.60	18.37	21.01	25.01	30
3560MHz_64QAM_RB 100,#RB 0	Pass	4.00	16.80	17.01	19.92	23.92	30
3625MHz_64QAM_RB 100,#RB 0	Pass	4.00	17.02	16.99	20.02	24.02	30
3690MHz_64QAM_RB 100,#RB 0	Pass	4.00	16.62	17.50	20.09	24.09	30

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

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

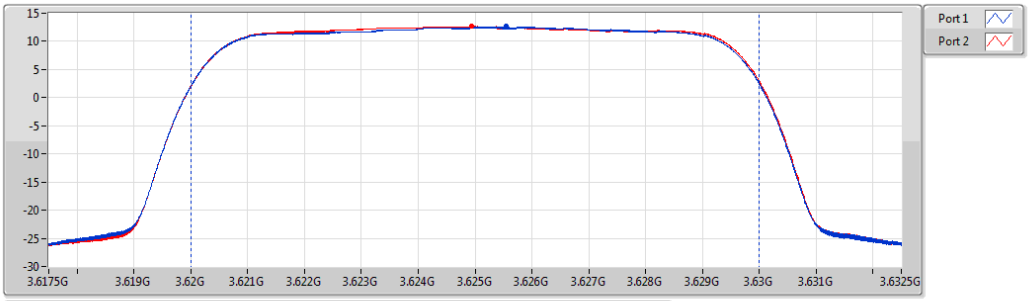
3555MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.84	3.555G	15M	1M	3M	10	RMS	10M	1
21.00	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.93								

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

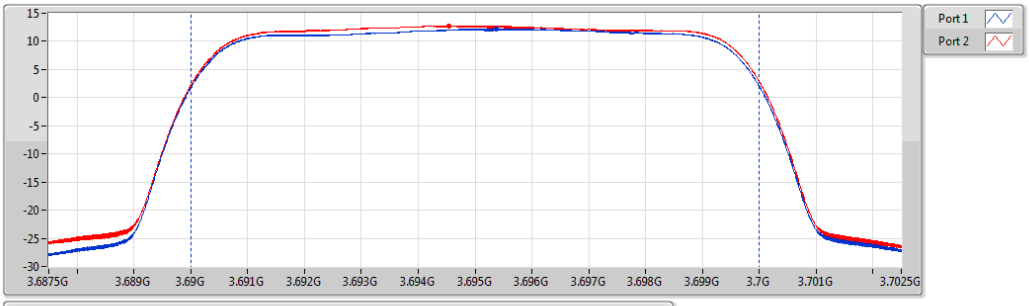
3625MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.16	3.625G	15M	1M	3M	10	RMS	10M	1
21.30	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.24								

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

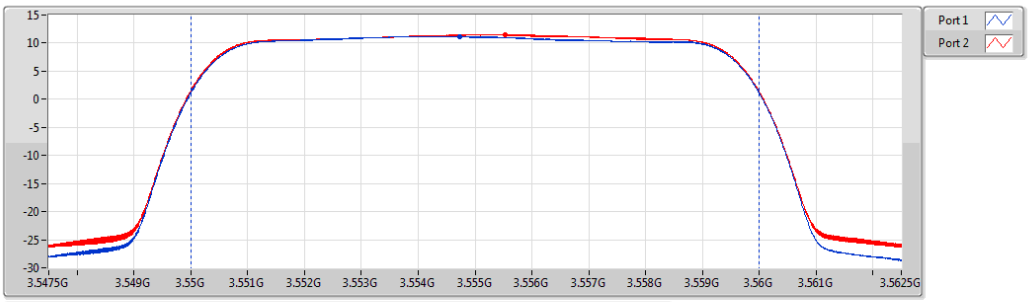
3695MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.83	3.695G	15M	1M	3M	10	RMS	10M	1
21.42	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.15								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

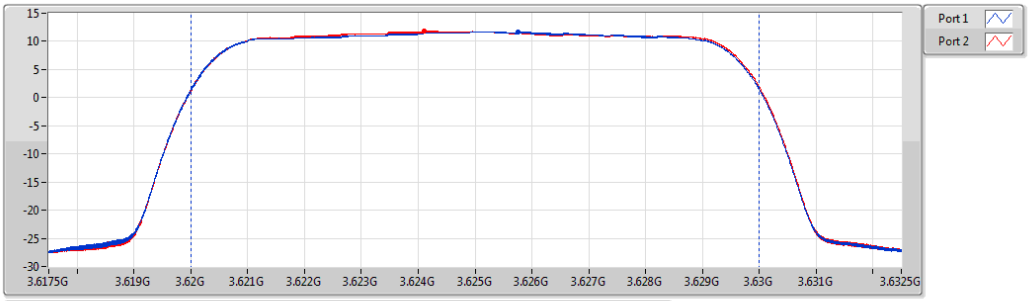
3555MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.94	3.555G	15M	1M	3M	10	RMS	10M	1
20.24	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.10								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

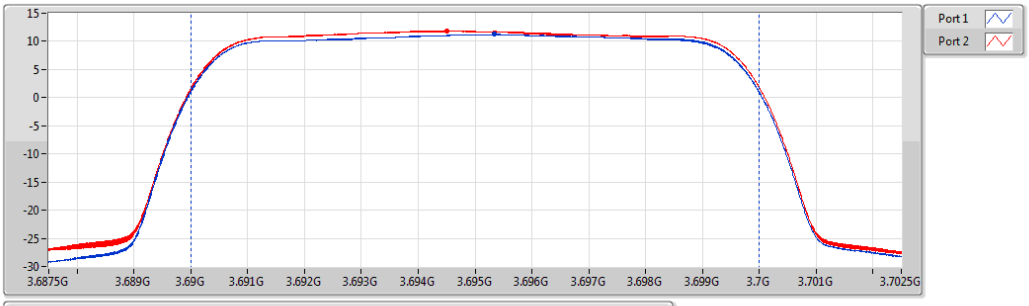
3625MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.31	3.625G	15M	1M	3M	10	RMS	10M	1
20.43	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.38								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

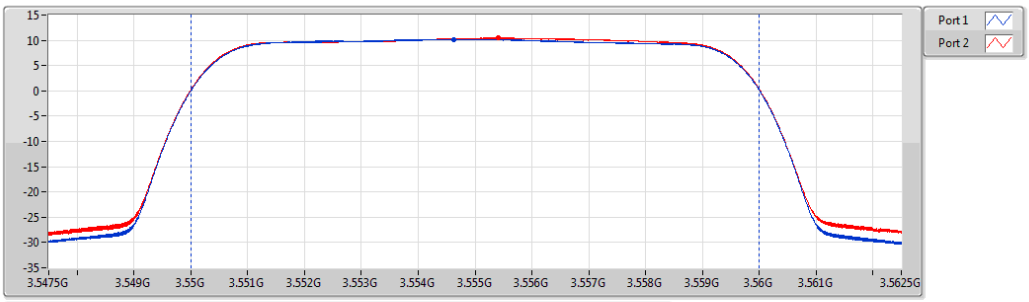
3695MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.90	3.695G	15M	1M	3M	10	RMS	10M	1
20.52	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.23								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

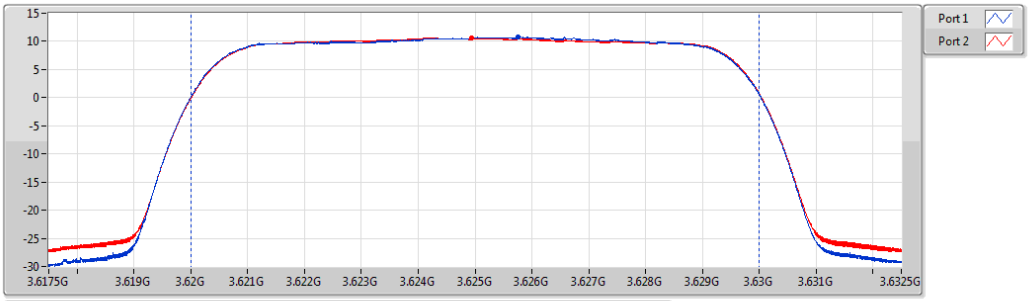
3555MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.99	3.555G	15M	1M	3M	10	RMS	10M	1
19.19	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.10								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

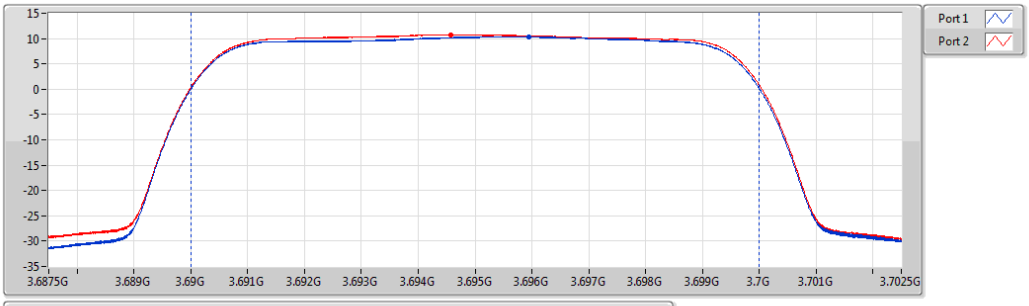
3625MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.32	3.625G	15M	1M	3M	10	RMS	10M	1
19.27	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.31								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

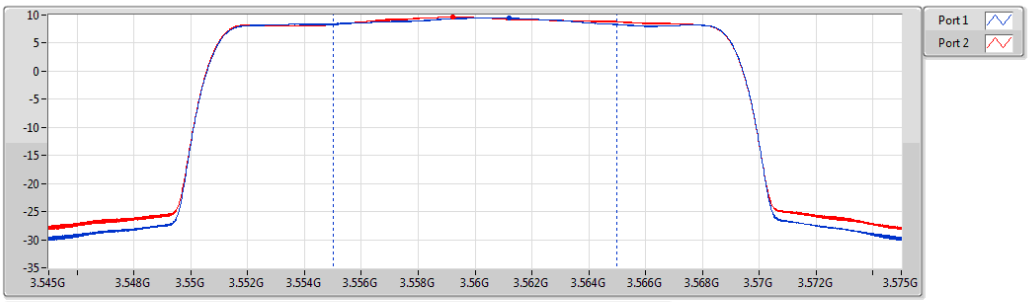
3695MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.04	3.695G	15M	1M	3M	10	RMS	10M	1
19.51	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.29								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

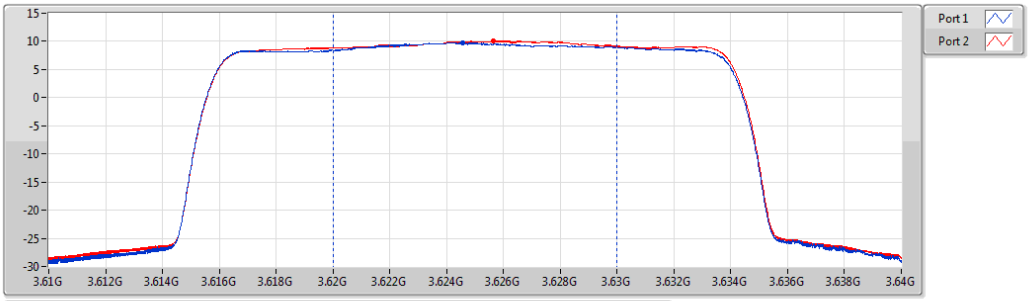
3560MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.74	3.56G	30M	1M	3M	10	RMS	10M	1
18.89	3.56G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.83								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

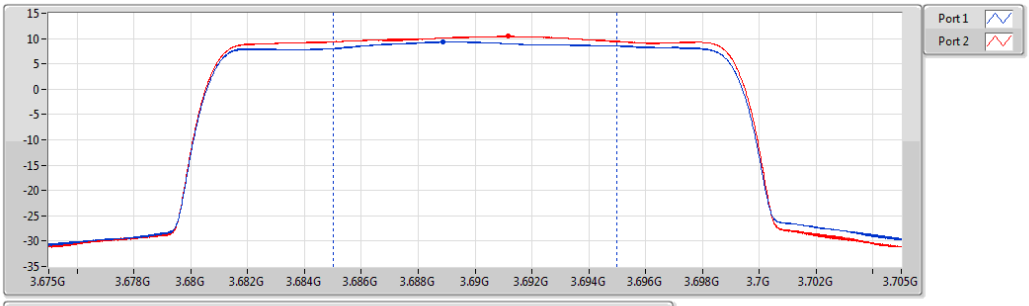
3625MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.97	3.625G	30M	1M	3M	10	RMS	10M	1
19.29	3.625G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.14								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

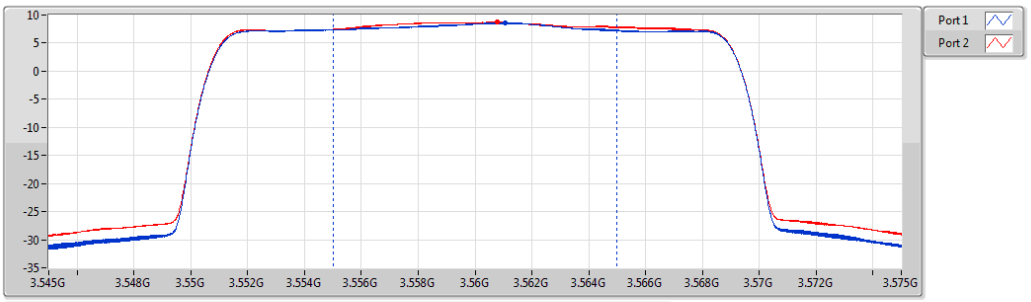
3690MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.62	3.69G	30M	1M	3M	10	RMS	10M	1
19.71	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.21								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

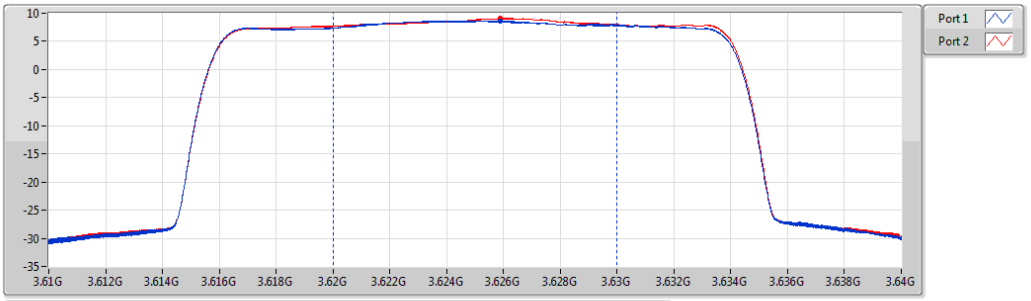
3560MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
17.69	3.56G	30M	1M	3M	10	RMS	10M	1
18.00	3.56G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
20.86								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

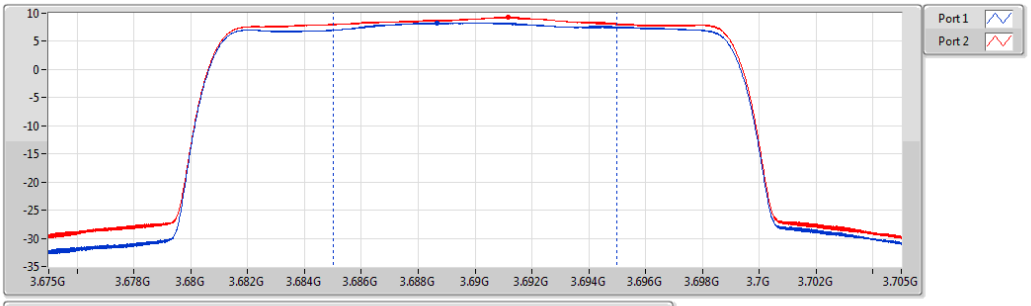
3625MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
17.93	3.625G	30M	1M	3M	10	RMS	10M	1
18.17	3.625G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.06								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

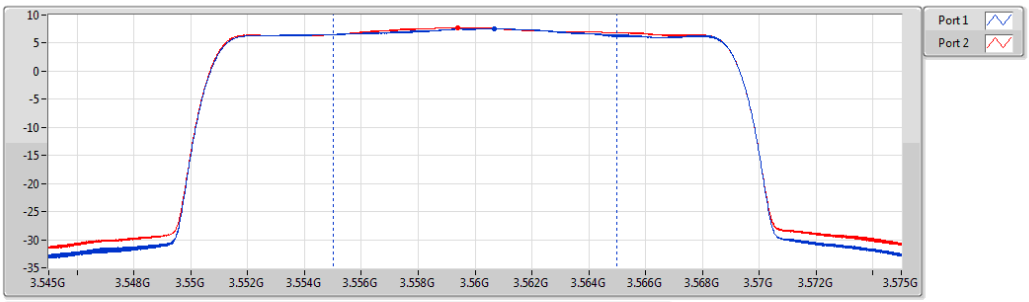
3690MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
17.60	3.69G	30M	1M	3M	10	RMS	10M	1
18.37	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
21.01								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

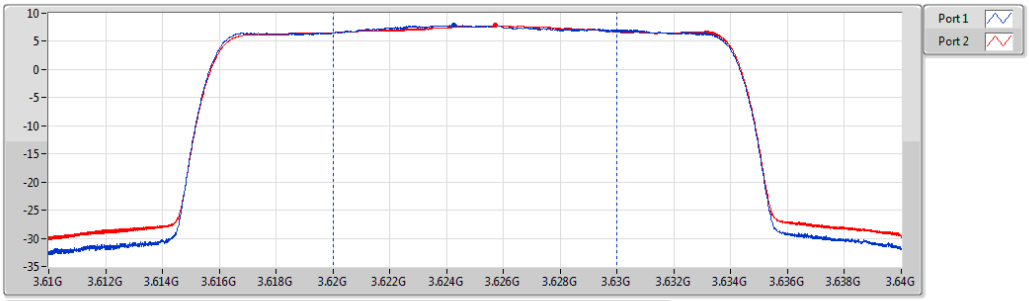
3560MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
16.80	3.56G	30M	1M	3M	10	RMS	10M	1
17.01	3.56G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
19.92								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

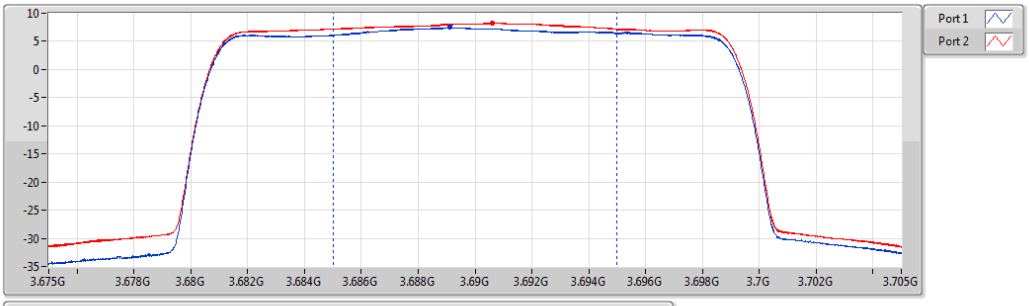
3625MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
17.02	3.625G	30M	1M	3M	10	RMS	10M	1
16.99	3.625G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
20.02								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

3690MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
16.62	3.69G	30M	1M	3M	10	RMS	10M	1
17.50	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
20.09								

Single-carrier / Full Power Result

Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP (W)	EIRP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)	Port 2 (dBm)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	4.00	27.93	0.621	Inf	23.93	0.247	Inf	20.84	21.00
3625MHz_QPSK_RB 50,#RB 0	Pass	4.00	28.24	0.667	Inf	24.24	0.266	Inf	21.16	21.30
3695MHz_QPSK_RB 50,#RB 0	Pass	4.00	28.15	0.653	Inf	24.15	0.260	Inf	20.83	21.42
3555MHz_16QAM_RB 50,#RB 0	Pass	4.00	27.10	0.513	Inf	23.10	0.204	Inf	19.94	20.24
3625MHz_16QAM_RB 50,#RB 0	Pass	4.00	27.38	0.547	Inf	23.38	0.218	Inf	20.31	20.43
3695MHz_16QAM_RB 50,#RB 0	Pass	4.00	27.23	0.528	Inf	23.23	0.210	Inf	19.90	20.52
3555MHz_64QAM_RB 50,#RB 0	Pass	4.00	26.10	0.407	Inf	22.10	0.162	Inf	18.99	19.19
3625MHz_64QAM_RB 50,#RB 0	Pass	4.00	26.31	0.428	Inf	22.31	0.170	Inf	19.32	19.27
3695MHz_64QAM_RB 50,#RB 0	Pass	4.00	26.29	0.426	Inf	22.29	0.169	Inf	19.04	19.51
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	4.00	28.01	0.632	Inf	24.01	0.252	Inf	20.93	21.07
3625MHz_QPSK_RB 100,#RB 0	Pass	4.00	28.28	0.673	Inf	24.28	0.268	Inf	21.16	21.38
3690MHz_QPSK_RB 100,#RB 0	Pass	4.00	28.45	0.700	Inf	24.45	0.279	Inf	20.78	22.01
3560MHz_16QAM_RB 100,#RB 0	Pass	4.00	27.07	0.509	Inf	23.07	0.203	Inf	19.91	20.21
3625MHz_16QAM_RB 100,#RB 0	Pass	4.00	27.28	0.535	Inf	23.28	0.213	Inf	20.10	20.44
3690MHz_16QAM_RB 100,#RB 0	Pass	4.00	27.25	0.531	Inf	23.25	0.211	Inf	19.78	20.66
3560MHz_64QAM_RB 100,#RB 0	Pass	4.00	26.14	0.411	Inf	22.14	0.164	Inf	19.03	19.23
3625MHz_64QAM_RB 100,#RB 0	Pass	4.00	26.23	0.420	Inf	22.23	0.167	Inf	19.24	19.20
3690MHz_64QAM_RB 100,#RB 0	Pass	4.00	26.31	0.428	Inf	22.31	0.170	Inf	18.89	19.67

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

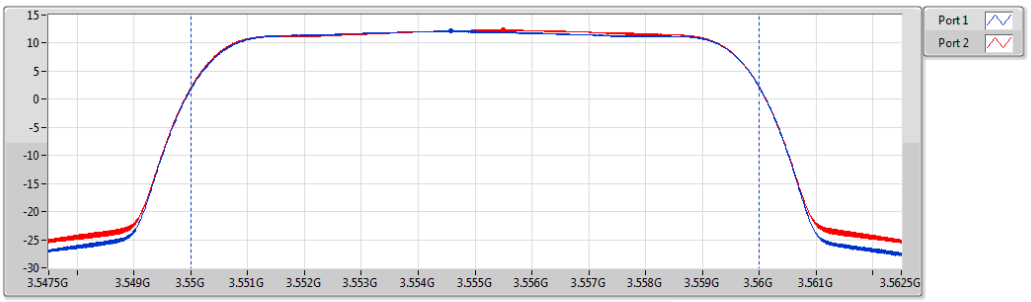
Note:

10MHz BW used dBm/10MHz measurement

20MHz BW used dBm/20MHz measurement

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

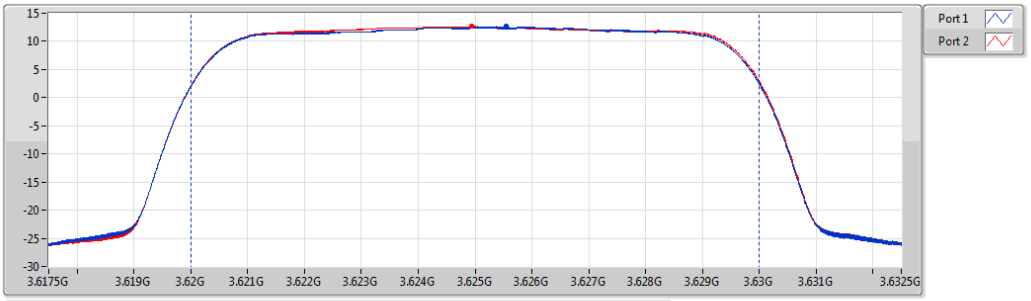
3555MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.84	3.555G	15M	1M	3M	10	RMS	10M	1
21.00	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.93								

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

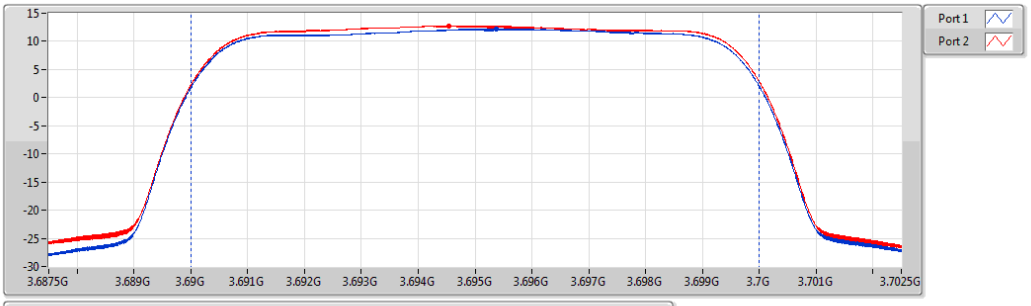
3625MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.16	3.625G	15M	1M	3M	10	RMS	10M	1
21.30	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.24								

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PowerAV**

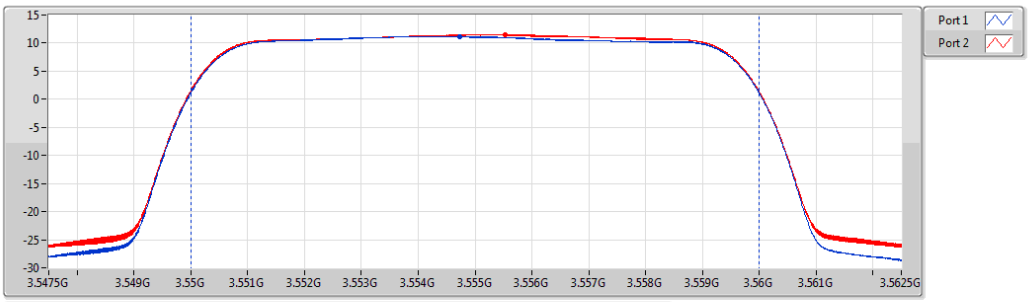
3695MHz_QPSK_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.83	3.695G	15M	1M	3M	10	RMS	10M	1
21.42	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.15								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

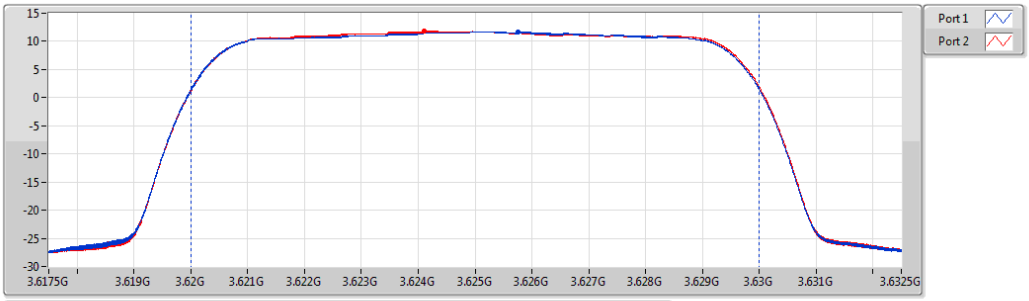
3555MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.94	3.555G	15M	1M	3M	10	RMS	10M	1
20.24	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.10								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

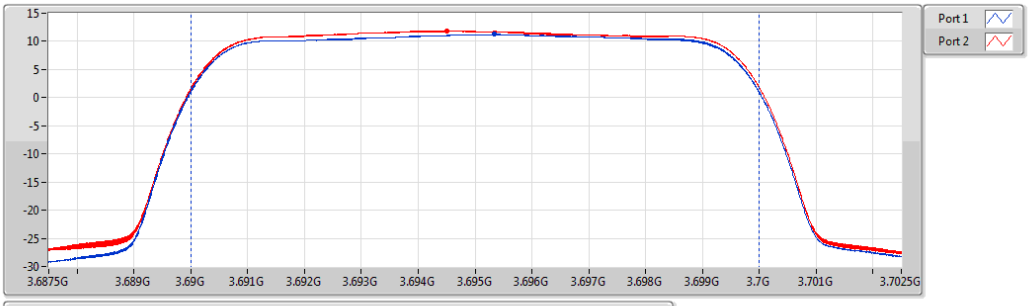
3625MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.31	3.625G	15M	1M	3M	10	RMS	10M	1
20.43	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.38								

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PowerAV**

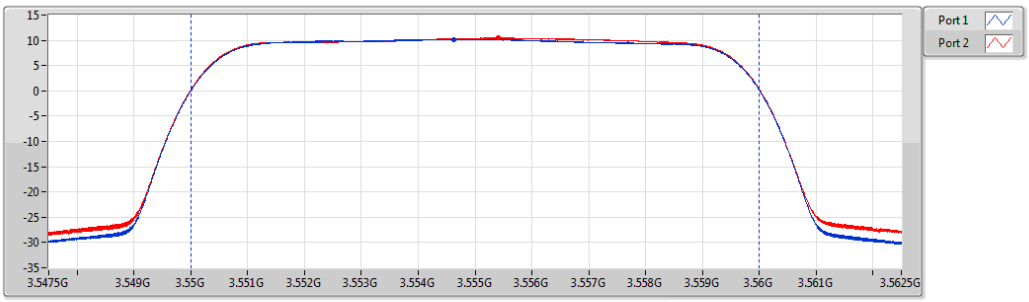
3695MHz_16QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.90	3.695G	15M	1M	3M	10	RMS	10M	1
20.52	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.23								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

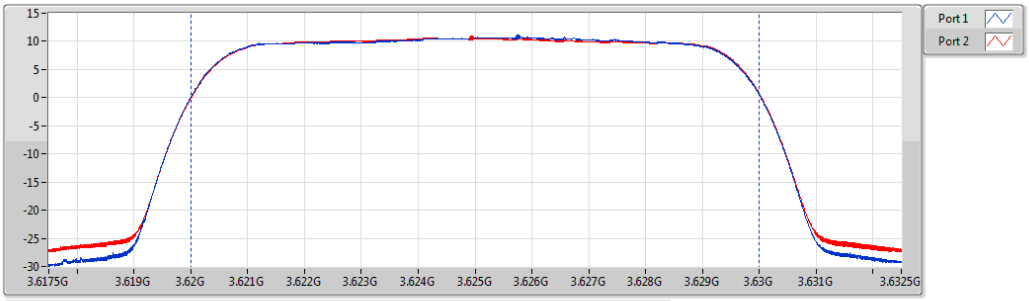
3555MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.99	3.555G	15M	1M	3M	10	RMS	10M	1
19.19	3.555G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.10								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

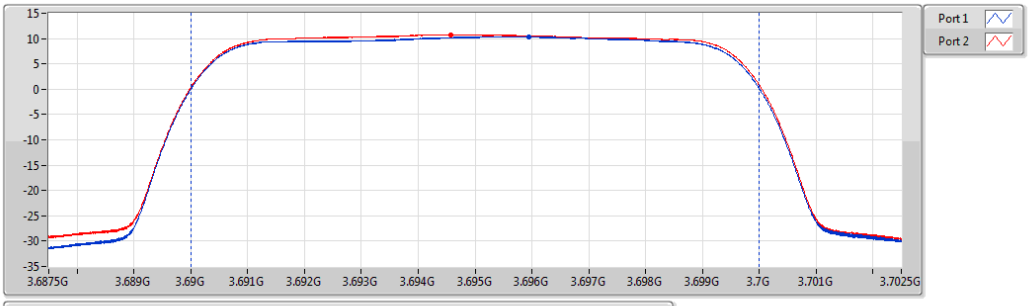
3625MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.32	3.625G	15M	1M	3M	10	RMS	10M	1
19.27	3.625G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.31								

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PowerAV**

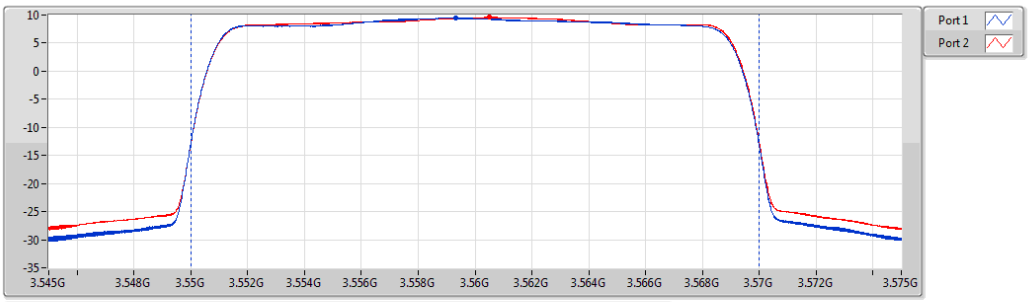
3695MHz_64QAM_RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.04	3.695G	15M	1M	3M	10	RMS	10M	1
19.51	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.29								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

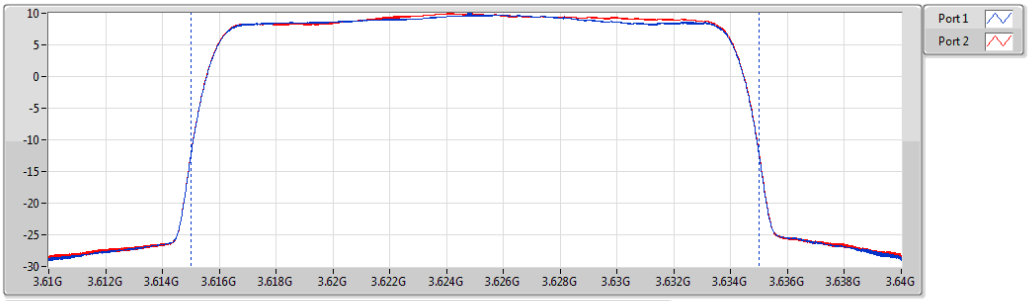
3560MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.93	3.56G	30M	1M	3M	10	RMS	20M	1
21.07	3.56G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.01								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

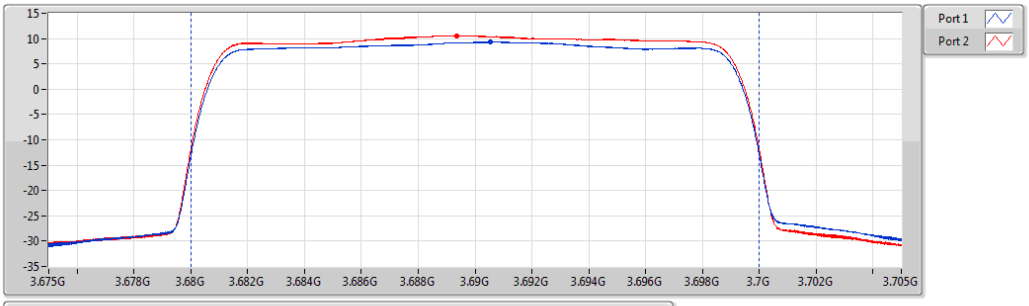
3625MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
21.16	3.625G	30M	1M	3M	10	RMS	20M	1
21.38	3.625G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.28								

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PowerAV**

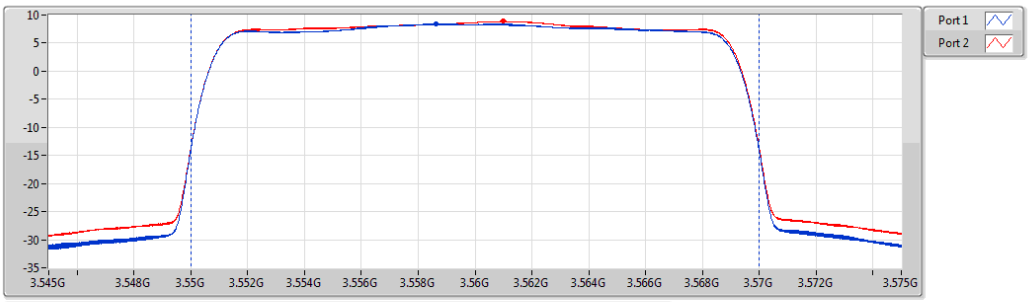
3690MHz_QPSK_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.78	3.69G	30M	1M	3M	10	RMS	20M	1
22.01	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.45								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

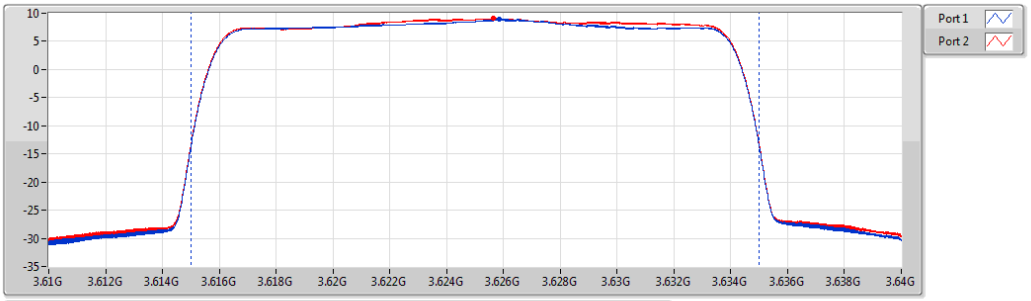
3560MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.91	3.56G	30M	1M	3M	10	RMS	20M	1
20.21	3.56G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.07								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

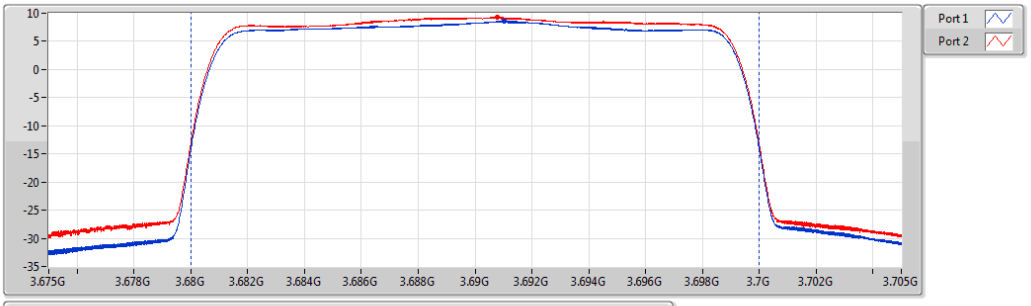
3625MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.10	3.625G	30M	1M	3M	10	RMS	20M	1
20.44	3.625G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.28								

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PowerAV**

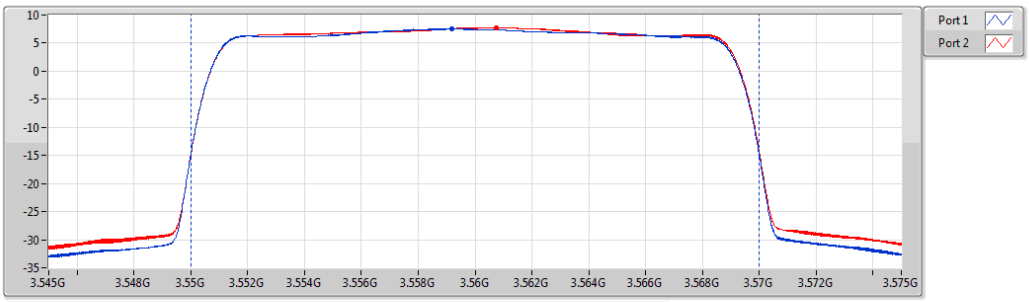
3690MHz_16QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.78	3.69G	30M	1M	3M	10	RMS	20M	1
20.66	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
23.25								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

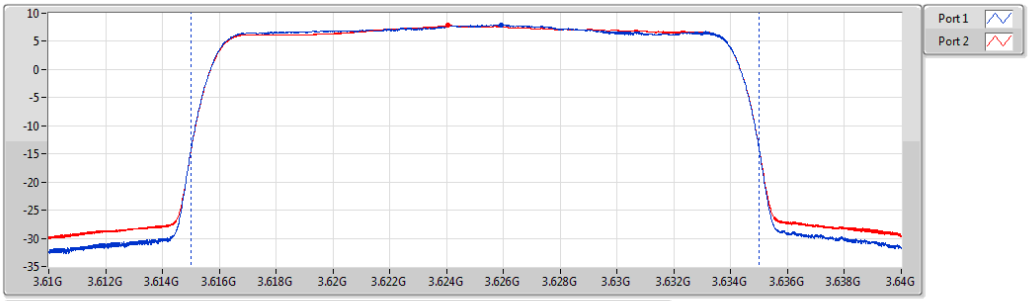
3560MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.03	3.56G	30M	1M	3M	10	RMS	20M	1
19.23	3.56G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
22.14								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

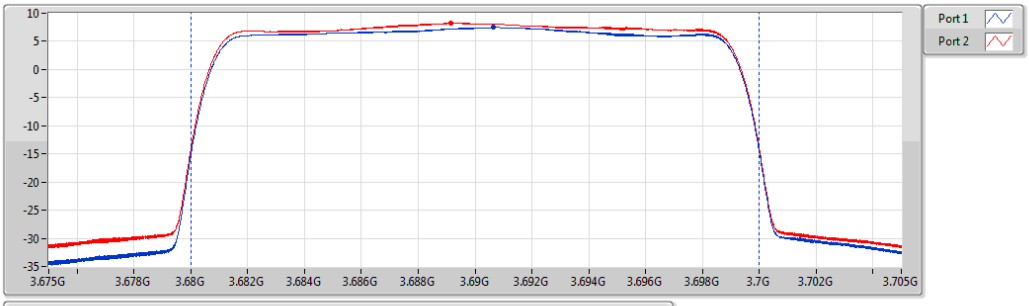
3625MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
19.24	3.625G	30M	1M	3M	10	RMS	20M	1
19.20	3.625G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
22.23								

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PowerAV**

3690MHz_64QAM_RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.89	3.69G	30M	1M	3M	10	RMS	20M	1
19.67	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
22.31								

3.1.6 Test Result of PSD (CDD Mode)

Single-carrier
Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_10MHz_Nss1,QPSK_2TX	15.64	19.64
LTE_10MHz_Nss1,16QAM_2TX	14.74	18.74
LTE_10MHz_Nss1,64QAM_2TX	13.69	17.69
LTE_20MHz_Nss1,QPSK_2TX	12.89	16.89
LTE_20MHz_Nss1,16QAM_2TX	11.87	15.87
LTE_20MHz_Nss1,64QAM_2TX	10.80	14.80

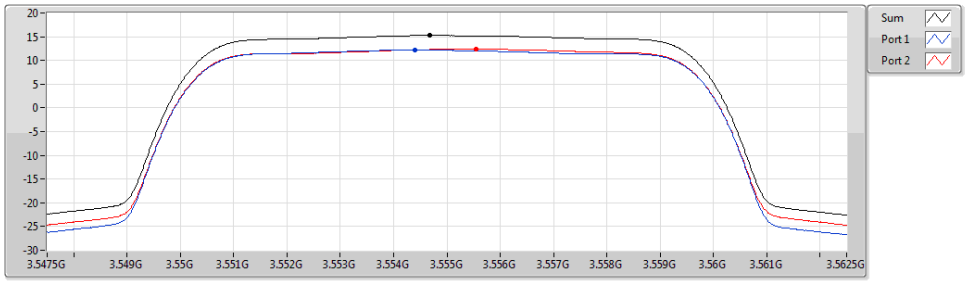
Result

Mode	Result	DG (dBi)	PD (dBm/MHz)	PD Limit (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)	Port 1 (dBm/MHz)	Port 2 (dBm/MHz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	4.00	15.25	Inf	19.25	20.00	12.20	12.39
3625MHz_QPSK_RB 50,#RB 0	Pass	4.00	15.64	Inf	19.64	20.00	12.66	12.64
3695MHz_QPSK_RB 50,#RB 0	Pass	4.00	15.44	Inf	19.44	20.00	12.16	12.77
3555MHz_16QAM_RB 50,#RB 0	Pass	4.00	14.24	Inf	18.24	20.00	11.12	11.42
3625MHz_16QAM_RB 50,#RB 0	Pass	4.00	14.74	Inf	18.74	20.00	11.69	11.77
3695MHz_16QAM_RB 50,#RB 0	Pass	4.00	14.60	Inf	18.60	20.00	11.32	11.91
3555MHz_64QAM_RB 50,#RB 0	Pass	4.00	13.29	Inf	17.29	20.00	10.18	10.44
3625MHz_64QAM_RB 50,#RB 0	Pass	4.00	13.69	Inf	17.69	20.00	10.85	10.57
3695MHz_64QAM_RB 50,#RB 0	Pass	4.00	13.63	Inf	17.63	20.00	10.39	10.91
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	4.00	12.49	Inf	16.49	20.00	9.50	9.61
3625MHz_QPSK_RB 100,#RB 0	Pass	4.00	12.88	Inf	16.88	20.00	9.81	10.08
3690MHz_QPSK_RB 100,#RB 0	Pass	4.00	12.89	Inf	16.89	20.00	9.39	10.45
3560MHz_16QAM_RB 100,#RB 0	Pass	4.00	11.60	Inf	15.60	20.00	8.56	8.64
3625MHz_16QAM_RB 100,#RB 0	Pass	4.00	11.87	Inf	15.87	20.00	8.63	9.10
3690MHz_16QAM_RB 100,#RB 0	Pass	4.00	11.78	Inf	15.78	20.00	8.29	9.23
3560MHz_64QAM_RB 100,#RB 0	Pass	4.00	10.63	Inf	14.63	20.00	7.59	7.77
3625MHz_64QAM_RB 100,#RB 0	Pass	4.00	10.78	Inf	14.78	20.00	7.82	7.82
3690MHz_64QAM_RB 100,#RB 0	Pass	4.00	10.80	Inf	14.80	20.00	7.47	8.26

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

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PSD**

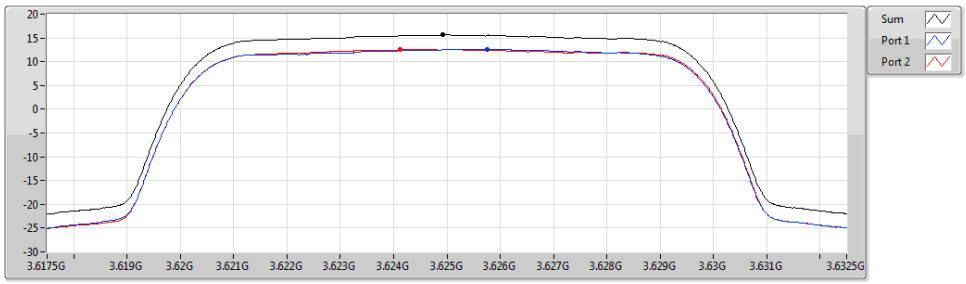
3555MHz_QPSK_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.20	3.555G	15M	1M	3M	10	RMS	1
12.39	3.555G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
15.25							

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PSD**

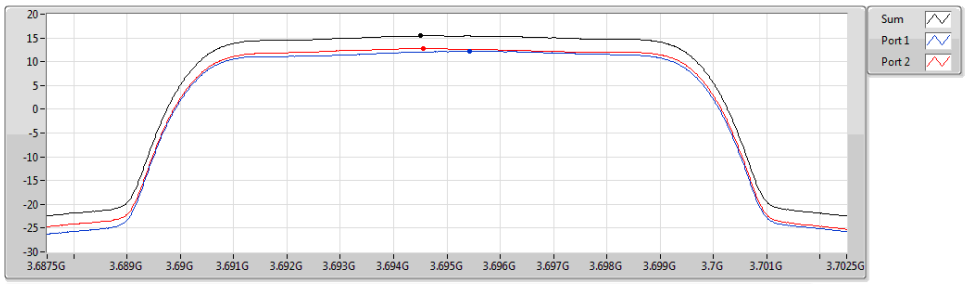
3625MHz_QPSK_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.66	3.625G	15M	1M	3M	10	RMS	1
12.64	3.625G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
15.64							

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PSD**

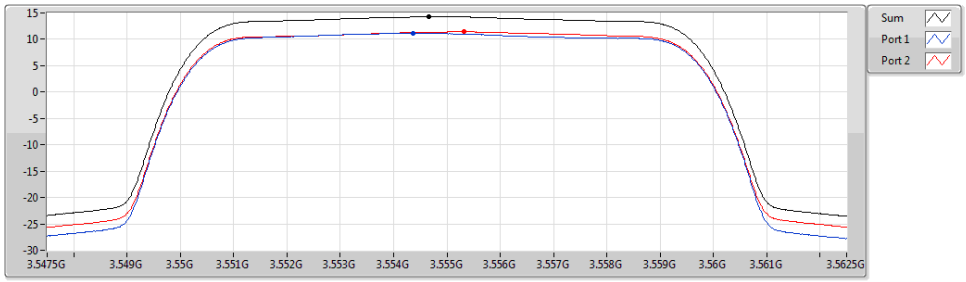
3695MHz_QPSK_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.16	3.695G	15M	1M	3M	10	RMS	1
12.77	3.695G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
15.44							

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PSD**

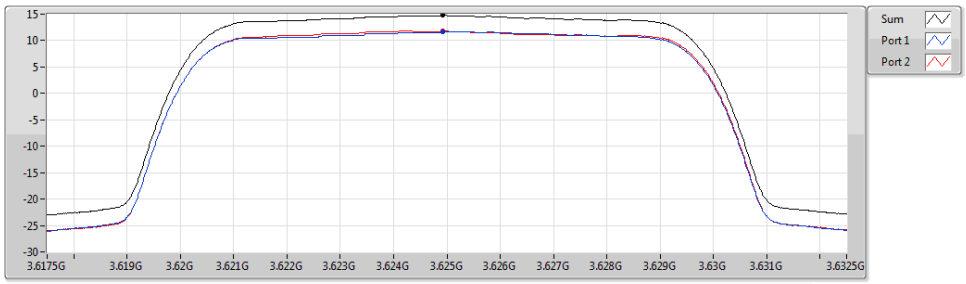
3555MHz_16QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
11.12	3.555G	15M	1M	3M	10	RMS	1
11.42	3.555G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
14.24							

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PSD**

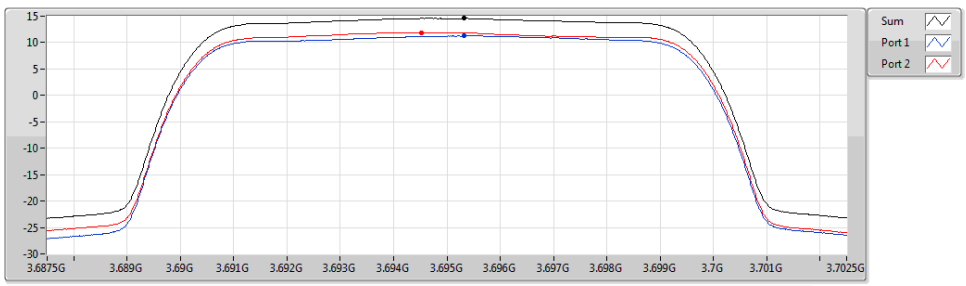
3625MHz_16QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
11.69	3.625G	15M	1M	3M	10	RMS	1
11.77	3.625G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
14.74							

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PSD**

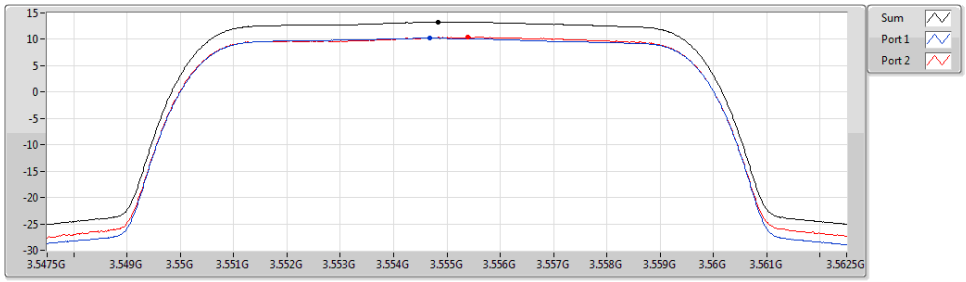
3695MHz_16QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
11.32	3.695G	15M	1M	3M	10	RMS	1
11.91	3.695G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
14.60							

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PSD**

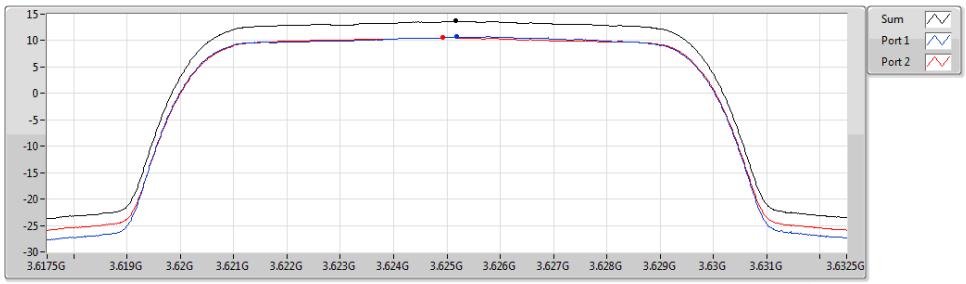
3555MHz_64QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
10.18	3.555G	15M	1M	3M	10	RMS	1
10.44	3.555G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
13.29							

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PSD**

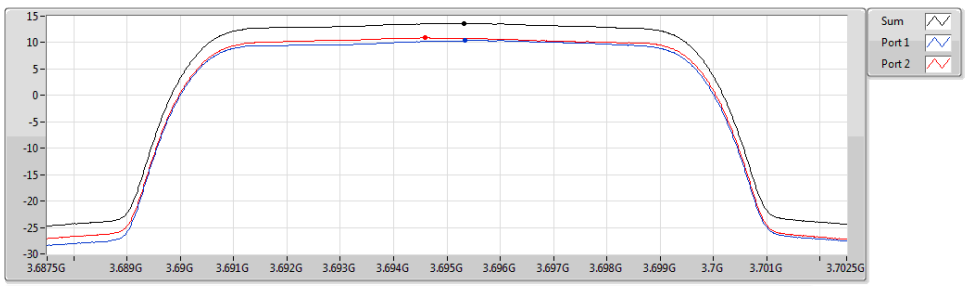
3625MHz_64QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
10.85	3.625G	15M	1M	3M	10	RMS	1
10.57	3.625G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
13.69							

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PSD**

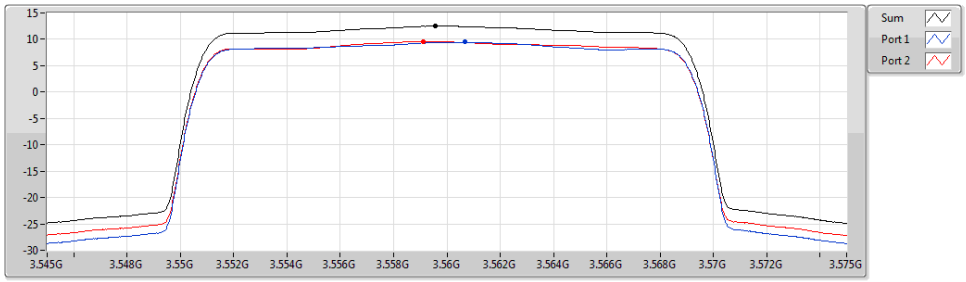
3695MHz_64QAM_RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
10.39	3.695G	15M	1M	3M	10	RMS	1
10.91	3.695G	15M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
13.63							

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PSD**

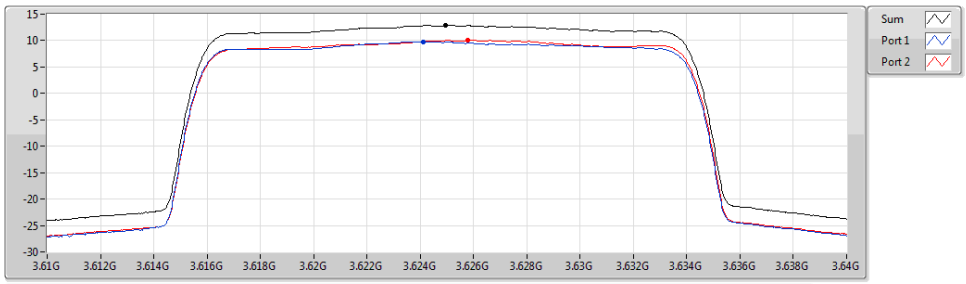
3560MHz_QPSK_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.50	3.56G	30M	1M	3M	10	RMS	1
9.61	3.56G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.49							

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PSD**

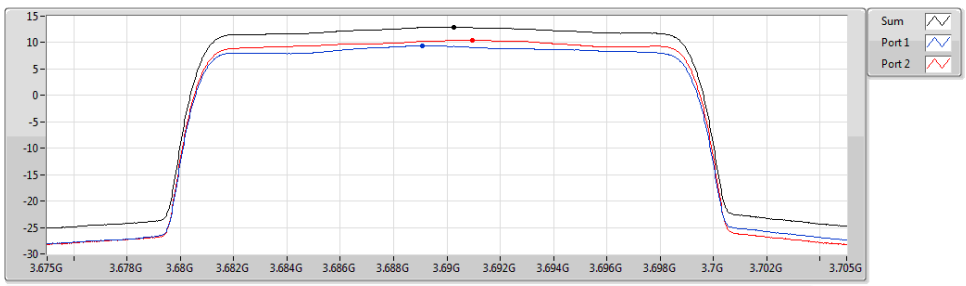
3625MHz_QPSK_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.81	3.625G	30M	1M	3M	10	RMS	1
10.08	3.625G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.88							

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PSD**

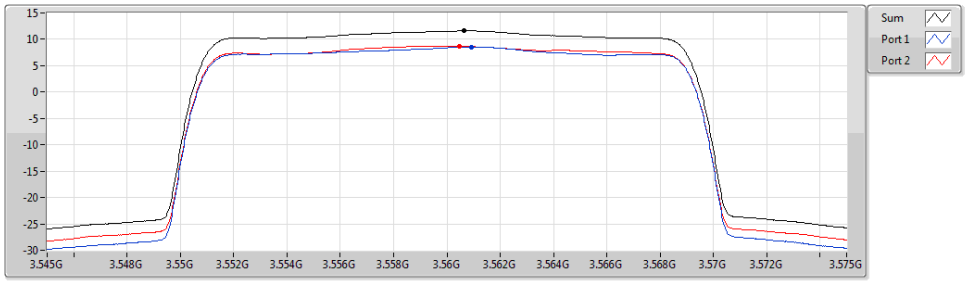
3690MHz_QPSK_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.39	3.69G	30M	1M	3M	10	RMS	1
10.45	3.69G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.89							

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PSD**

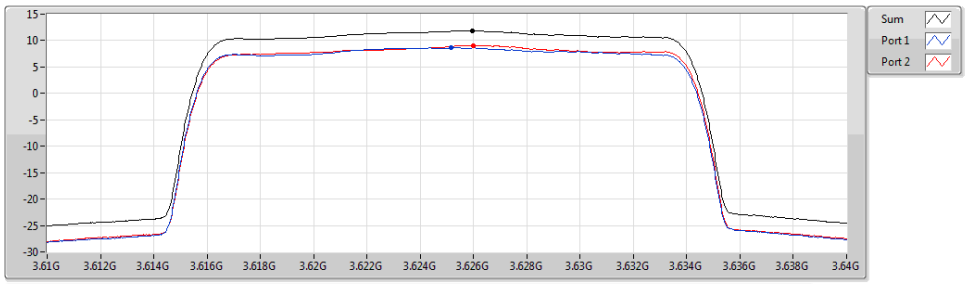
3560MHz_16QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
8.56	3.56G	30M	1M	3M	10	RMS	1
8.64	3.56G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
11.60							

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PSD**

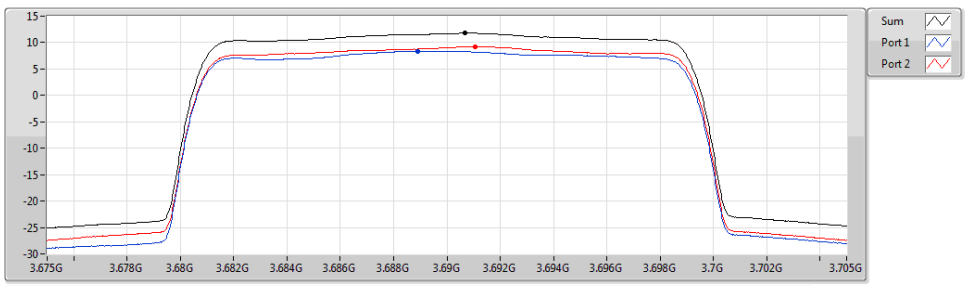
3625MHz_16QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
8.63	3.625G	30M	1M	3M	10	RMS	1
9.10	3.625G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
11.87							

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PSD**

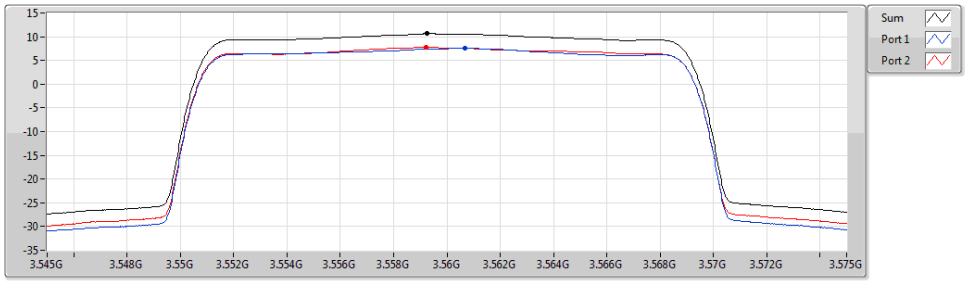
3690MHz_16QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
8.29	3.69G	30M	1M	3M	10	RMS	1
9.23	3.69G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
11.78							

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PSD**

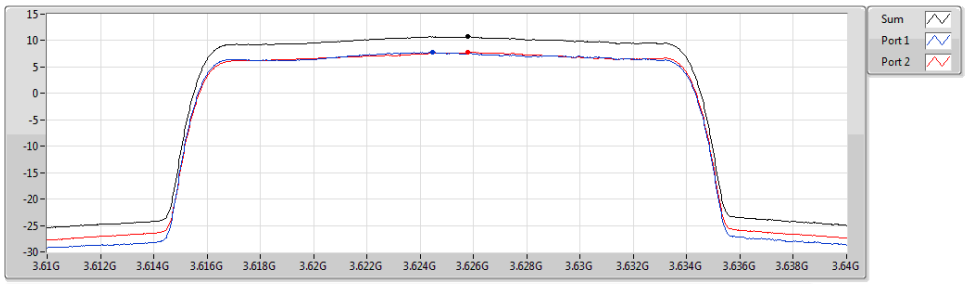
3560MHz_64QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
7.59	3.56G	30M	1M	3M	10	RMS	1
7.77	3.56G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.63							

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PSD**

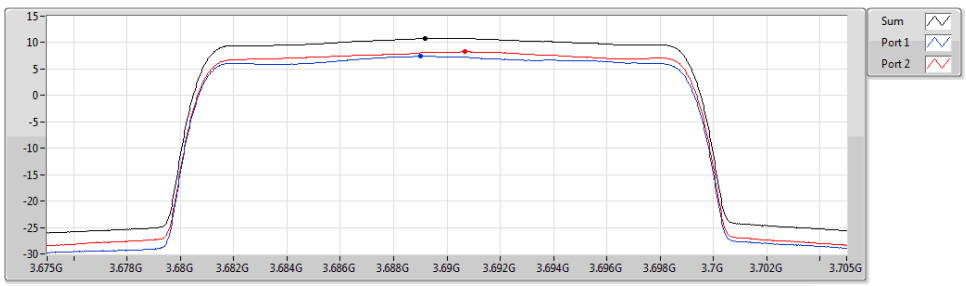
3625MHz_64QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
7.82	3.625G	30M	1M	3M	10	RMS	1
7.82	3.625G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.78							

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PSD**

3690MHz_64QAM_RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
7.47	3.69G	30M	1M	3M	10	RMS	1
8.26	3.69G	30M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.80							

3.1.7 Test Result of EIRP (CA Mode)

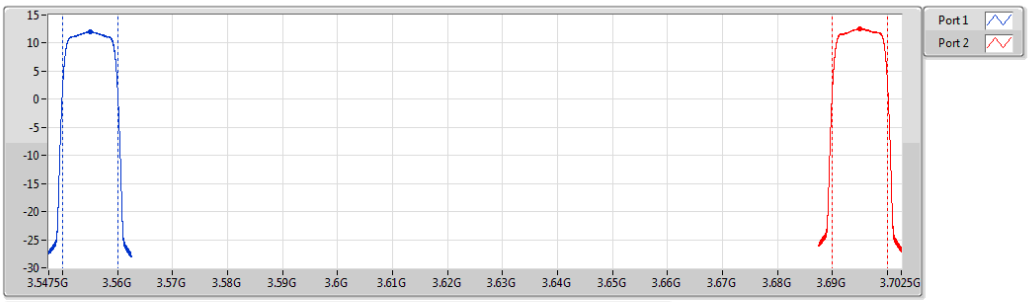
Multi-carrier / Power @10MHz
Result

Mode	Result	DG (dBi)	1Carrier Port 1 (dBm/10MHz)	2Carrier Port 2 (dBm/10MHz)	Max Power (dBm/10MHz)	Max EIRP (dBm/10MHz)	EIRP Lim. (dBm/10MHz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	20.72	21.29	21.29	25.29	30
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	20.73	21.30	21.30	25.30	30
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	20.75	21.28	21.28	25.28	30
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	20.88	19.86	20.88	24.88	30
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	20.96	19.78	20.96	24.96	30
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	20.79	19.82	20.79	24.79	30
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	18.61	21.30	21.30	25.30	30
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	18.71	21.39	21.39	25.39	30
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	18.73	21.31	21.31	25.31	30
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	18.70	19.76	19.76	23.76	30
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	18.60	19.77	19.77	23.77	30
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	18.71	19.75	19.75	23.75	30

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

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **PowerAV**

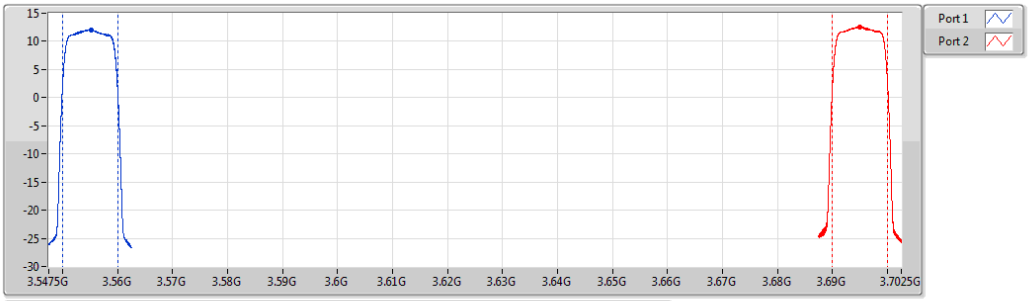
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.72	3.555G	15M	1M	3M	10	RMS	10M	1
21.29	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.02								

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **PowerAV**

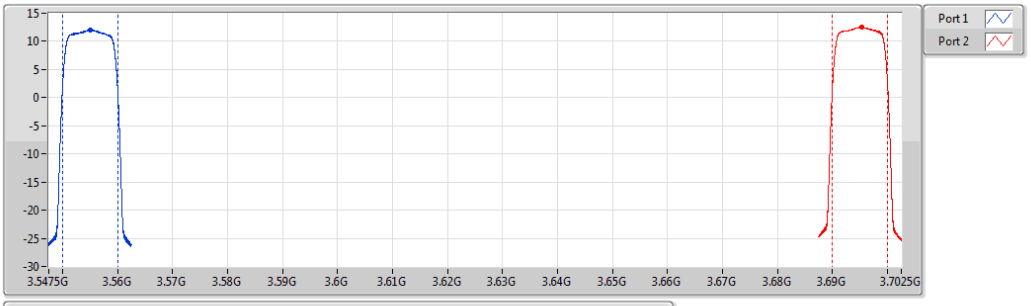
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.73	3.555G	15M	1M	3M	10	RMS	10M	1
21.30	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.03								

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **PowerAV**

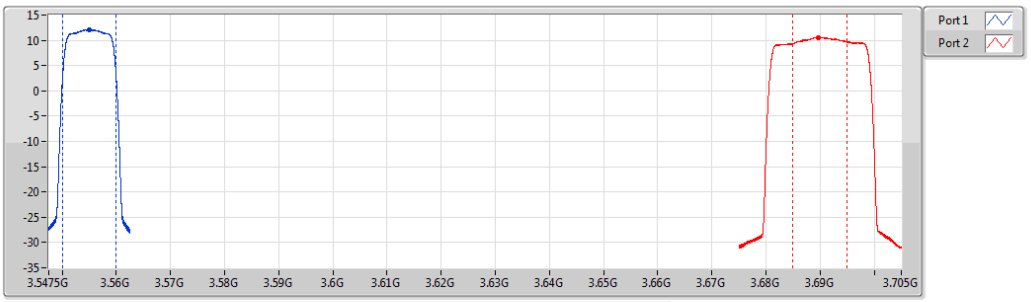
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.75	3.555G	15M	1M	3M	10	RMS	10M	1
21.28	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.03								

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **PowerAV**

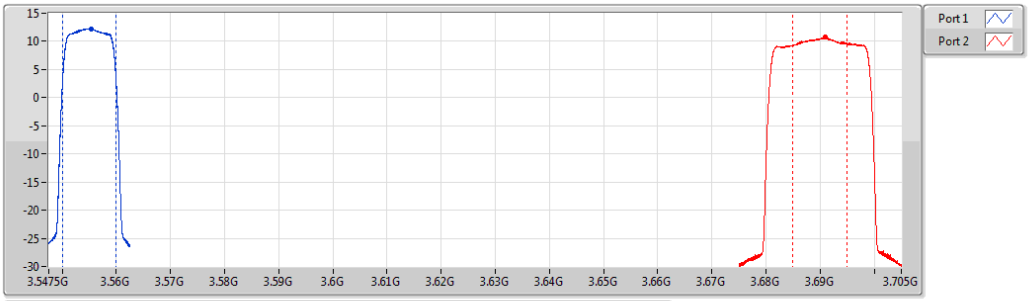
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.88	3.555G	15M	1M	3M	10	RMS	10M	1
19.86	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.41								

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **PowerAV**

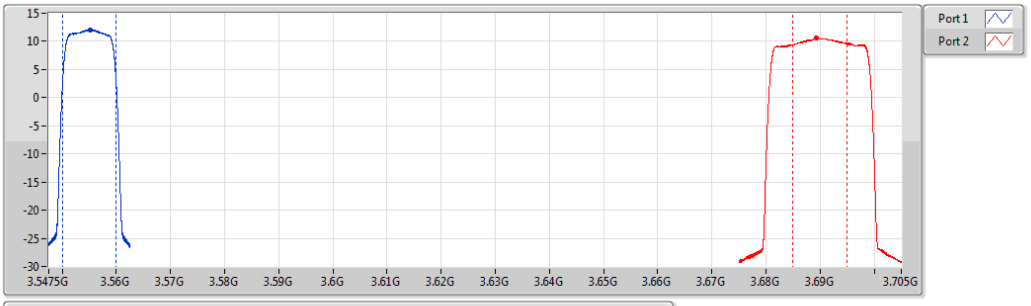
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.96	3.555G	15M	1M	3M	10	RMS	10M	1
19.78	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.42								

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **PowerAV**

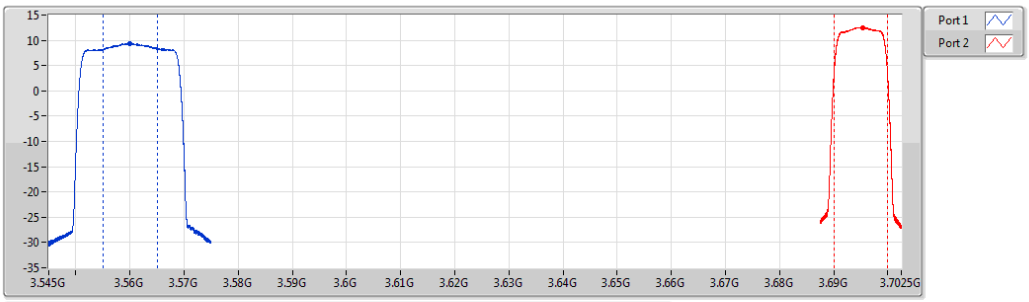
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.79	3.555G	15M	1M	3M	10	RMS	10M	1
19.82	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.34								

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **PowerAV**

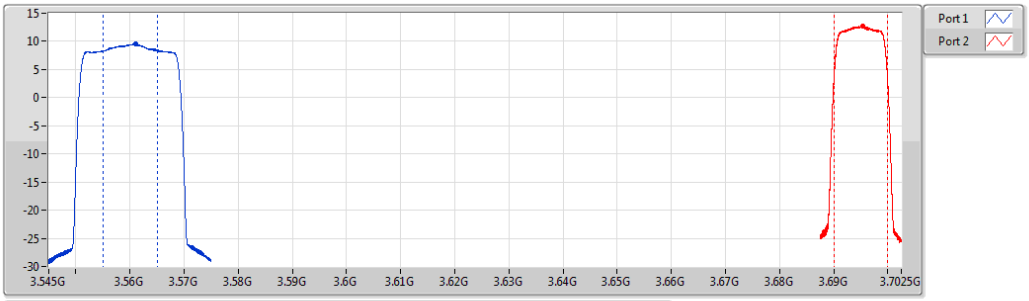
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.61	3.56G	30M	1M	3M	10	RMS	10M	1
21.30	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.17								

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **PowerAV**

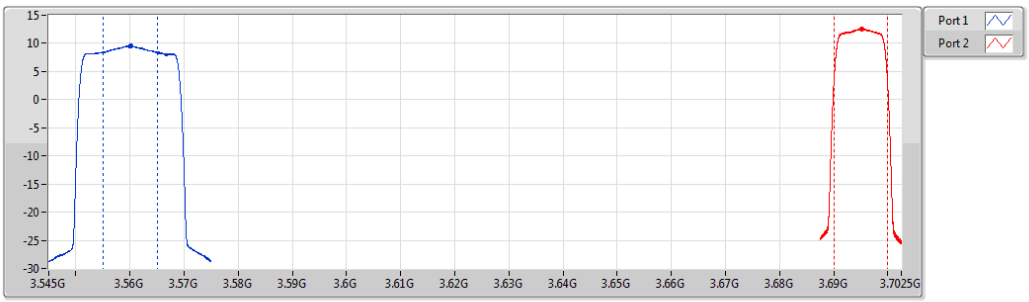
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.71	3.56G	30M	1M	3M	10	RMS	10M	1
21.39	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.26								

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **PowerAV**

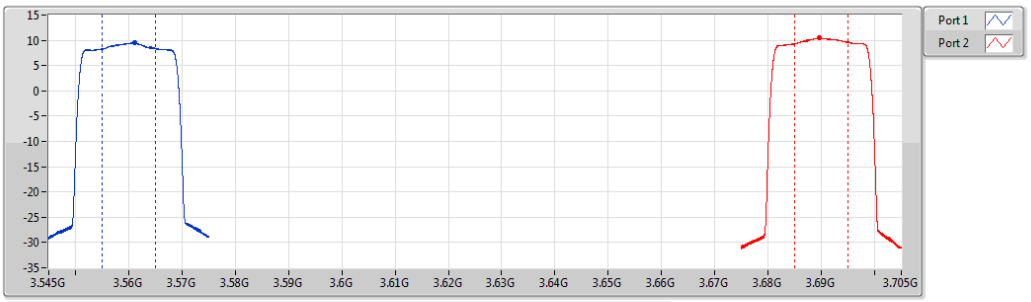
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.73	3.56G	30M	1M	3M	10	RMS	10M	1
21.31	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
23.22								

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **PowerAV**

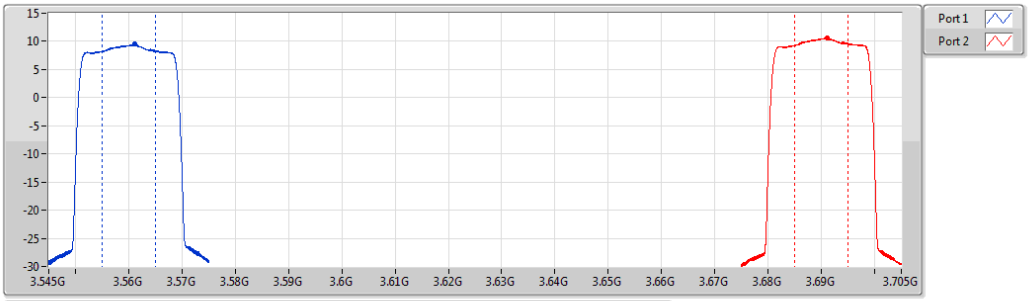
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.70	3.56G	30M	1M	3M	10	RMS	10M	1
19.76	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.27								

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **PowerAV**

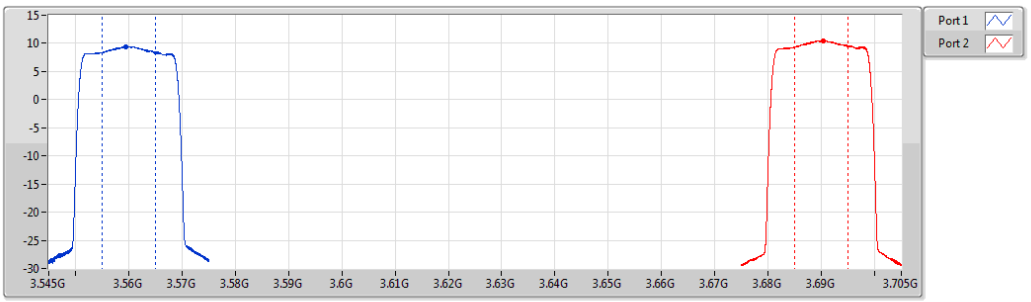
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
18.60	3.56G	30M	1M	3M	10	RMS	10M	1
19.77	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.23								

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **PowerAV**

P#3560MHz,#3690MHz_64QAM_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
18.71	3.56G	30M	1M	3M	10	RMS	10M	1
19.75	3.69G	30M	1M	3M	10	RMS	10M	2
Sum(dBm)								
22.27								

Multi-carrier / Full Power Result

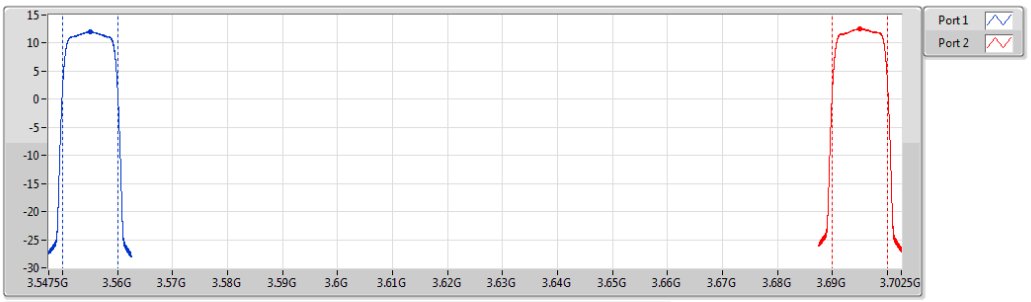
Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP (W)	EIRP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	1Carrier Port 1 (dBm)	2Carrier Port 2 (dBm)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	28.02	0.634	Inf	24.02	0.252	Inf	20.72	21.29
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	28.03	0.635	Inf	24.03	0.253	Inf	20.73	21.30
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	28.03	0.635	Inf	24.03	0.253	Inf	20.75	21.28
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	28.41	0.693	Inf	24.41	0.276	Inf	20.78	21.95
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	28.37	0.687	Inf	24.37	0.274	Inf	20.75	21.90
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	28.36	0.685	Inf	24.36	0.273	Inf	20.73	21.90
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	28.09	0.644	Inf	24.09	0.256	Inf	20.86	21.29
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	28.04	0.637	Inf	24.04	0.254	Inf	20.79	21.25
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	28.04	0.637	Inf	24.04	0.254	Inf	20.80	21.25
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	28.40	0.692	Inf	24.40	0.275	Inf	20.87	21.85
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	28.40	0.692	Inf	24.40	0.275	Inf	20.87	21.85
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	28.39	0.690	Inf	24.39	0.275	Inf	20.86	21.85

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+10MHz_Nss1,QPSK_2TX **PowerAV**

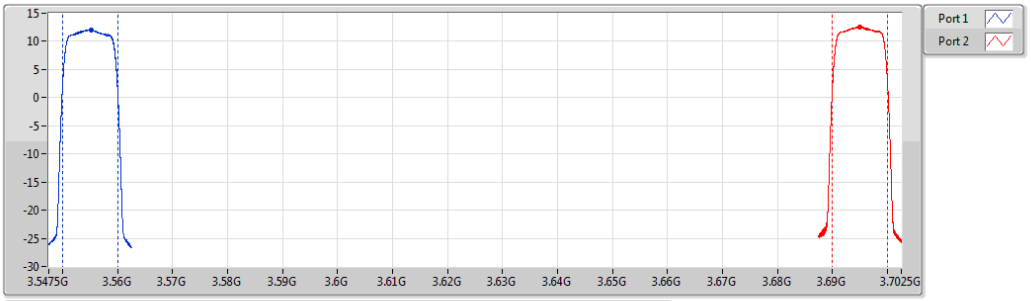
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.72	3.555G	15M	1M	3M	10	RMS	10M	1
21.29	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.02								

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **PowerAV**

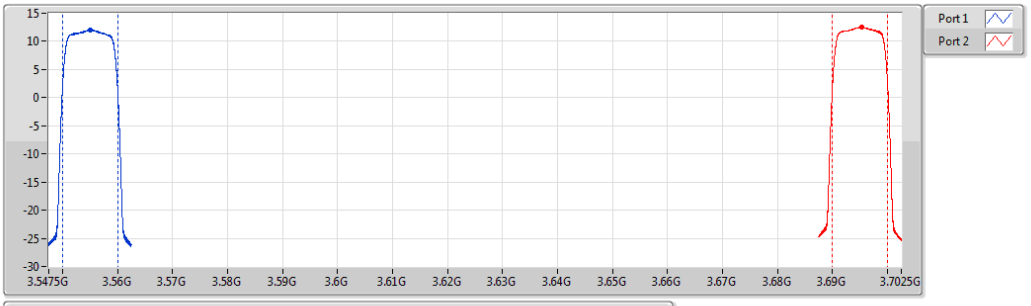
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.73	3.555G	15M	1M	3M	10	RMS	10M	1
21.30	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.03								

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **PowerAV**

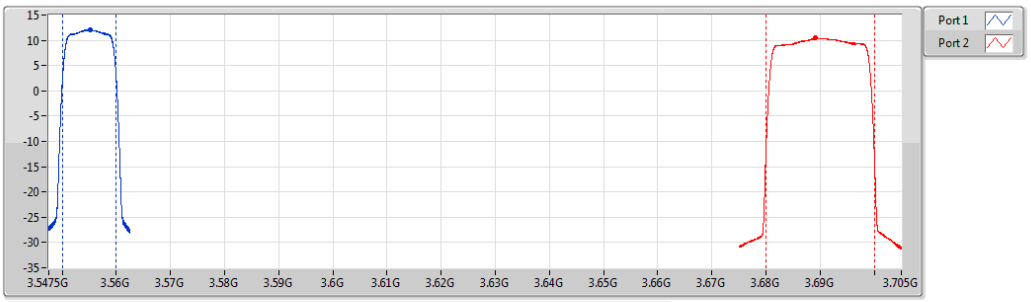
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.75	3.555G	15M	1M	3M	10	RMS	10M	1
21.28	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.03								

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **PowerAV**

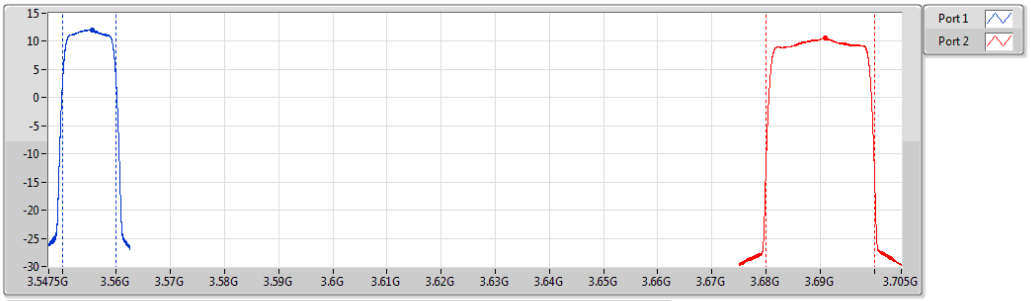
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.78	3.555G	15M	1M	3M	10	RMS	10M	1
21.95	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.41								

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **PowerAV**

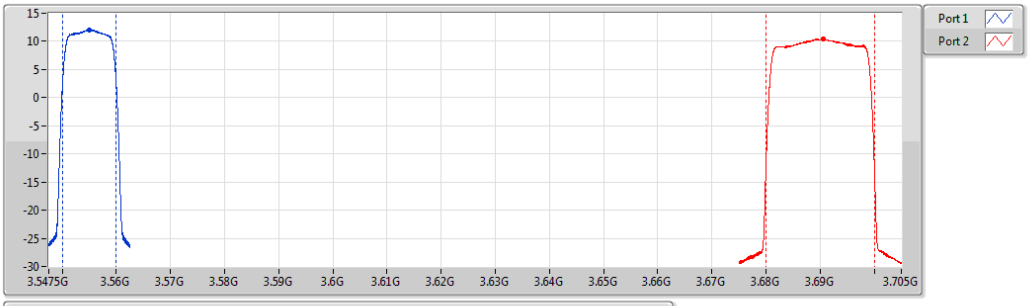
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.75	3.555G	15M	1M	3M	10	RMS	10M	1
21.90	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.37								

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **PowerAV**

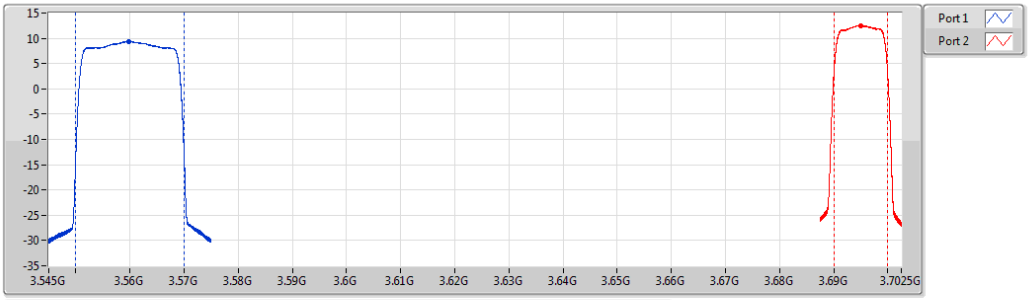
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.73	3.555G	15M	1M	3M	10	RMS	10M	1
21.90	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.36								

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **PowerAV**

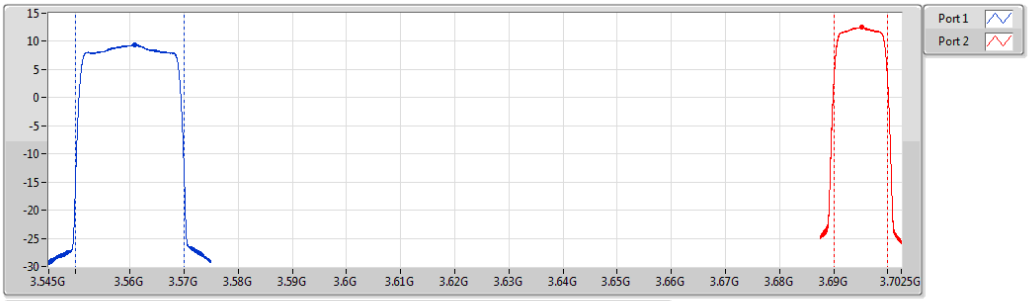
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.86	3.56G	30M	1M	3M	10	RMS	20M	1
21.29	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.09								

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **PowerAV**

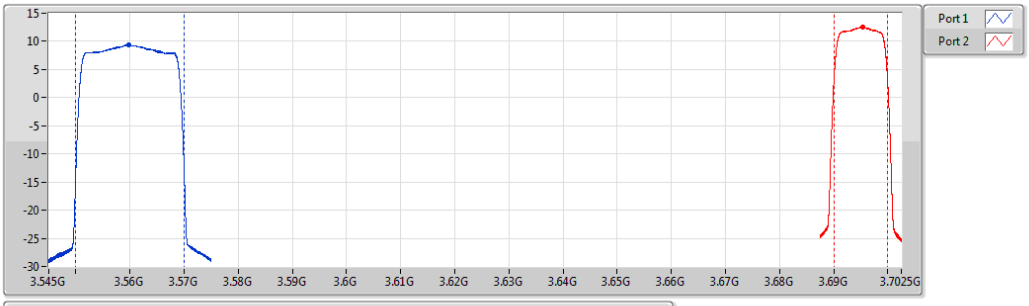
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.79	3.56G	30M	1M	3M	10	RMS	20M	1
21.25	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.04								

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **PowerAV**

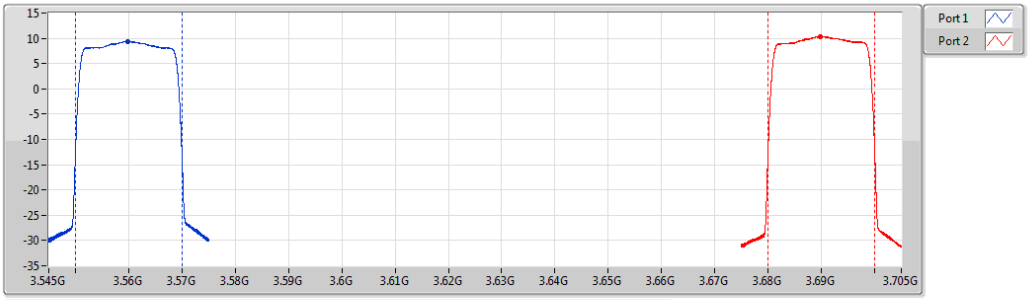
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.80	3.56G	30M	1M	3M	10	RMS	20M	1
21.25	3.695G	15M	1M	3M	10	RMS	10M	2
Sum(dBm)								
24.04								

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **PowerAV**

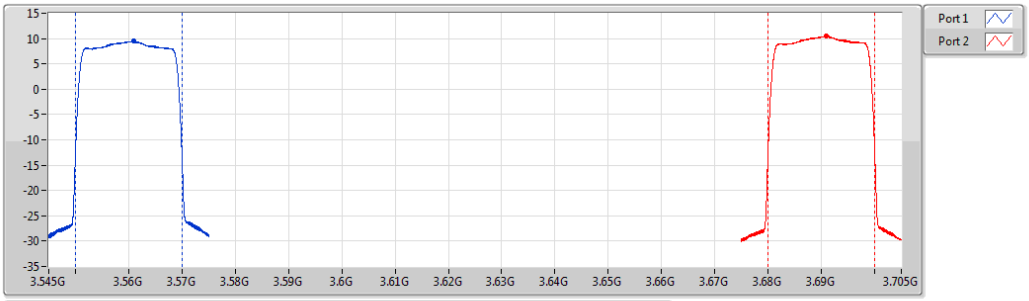
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.87	3.56G	30M	1M	3M	10	RMS	20M	1
21.85	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.40								

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **PowerAV**

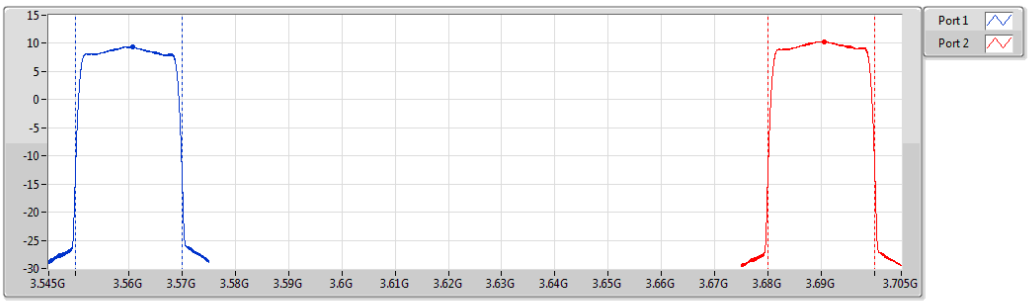
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



CP(dBm)	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)	Sweep(s)	Detector	CP BW(Hz)	Port
20.87	3.56G	30M	1M	3M	10	RMS	20M	1
21.85	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.40								

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **PowerAV**

P#3560MHz,#3690MHz_64QAM_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
20.86	3.56G	30M	1M	3M	10	RMS	20M	1
21.85	3.69G	30M	1M	3M	10	RMS	20M	2
Sum(dBm)								
24.39								

3.1.8 Test Result of PSD (CA Mode)

Multi-carrier
Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
Band 48	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	12.55	16.55
LTE_10MHz+10MHz_Nss1,16QAM_2TX	12.60	16.60
LTE_10MHz+10MHz_Nss1,64QAM_2TX	12.55	16.55
LTE_10MHz+20MHz_Nss1,QPSK_2TX	12.12	16.12
LTE_10MHz+20MHz_Nss1,16QAM_2TX	12.28	16.28
LTE_10MHz+20MHz_Nss1,64QAM_2TX	12.11	16.11
LTE_20MHz+10MHz_Nss1,QPSK_2TX	12.60	16.60
LTE_20MHz+10MHz_Nss1,16QAM_2TX	12.72	16.72
LTE_20MHz+10MHz_Nss1,64QAM_2TX	12.70	16.70
LTE_20MHz+20MHz_Nss1,QPSK_2TX	10.47	14.47
LTE_20MHz+20MHz_Nss1,16QAM_2TX	10.60	14.60
LTE_20MHz+20MHz_Nss1,64QAM_2TX	10.50	14.50

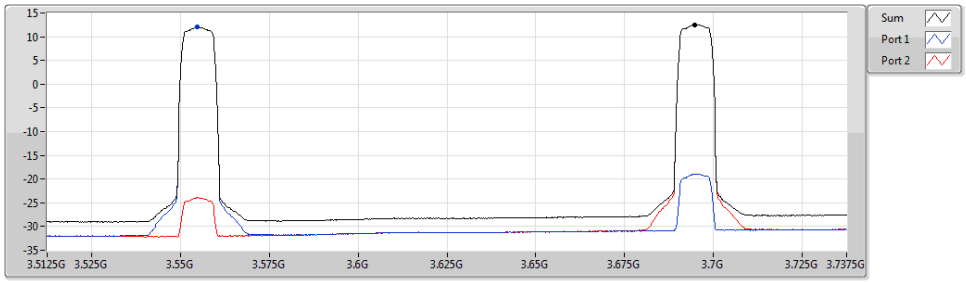
Result

Mode	Result	DG (dBi)	PD (dBm/MHz)	PD Limit (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)	1Carrier Port 1 (dBm/MHz)	2Carrier Port 2 (dBm/MHz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	12.55	Inf	16.55	20.00	12.00	12.55
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	12.60	Inf	16.60	20.00	12.05	12.60
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	4.00	12.55	Inf	16.55	20.00	12.05	12.55
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	12.12	Inf	16.12	20.00	12.12	10.58
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	12.28	Inf	16.28	20.00	12.28	10.76
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	4.00	12.11	Inf	16.11	20.00	12.11	10.58
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	12.60	Inf	16.60	20.00	9.46	12.60
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	12.72	Inf	16.72	20.00	9.51	12.72
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	4.00	12.70	Inf	16.70	20.00	9.49	12.70
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	10.47	Inf	14.47	20.00	9.57	10.47
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	10.60	Inf	14.60	20.00	9.46	10.60
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	4.00	10.50	Inf	14.50	20.00	9.55	10.50

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

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **PSD**

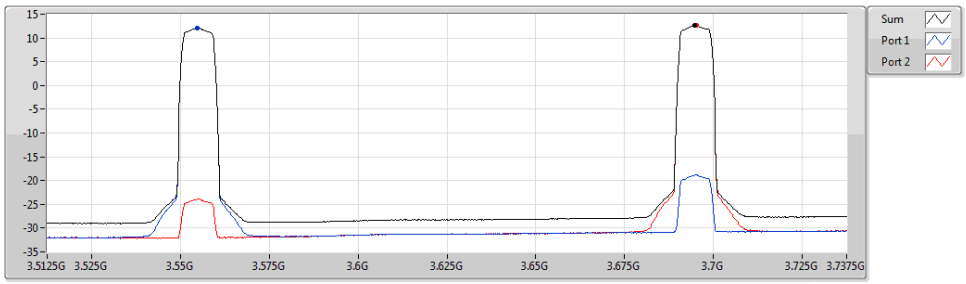
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.00	3.625G	225M	1M	3M	10	RMS	1
12.55	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.55							

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **PSD**

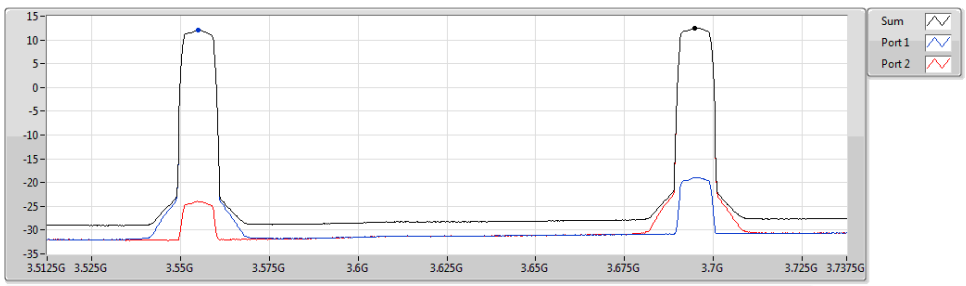
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.05	3.625G	225M	1M	3M	10	RMS	1
12.60	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.60							

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **PSD**

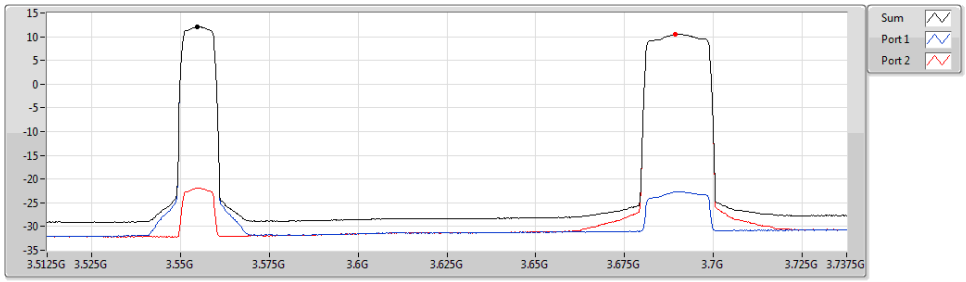
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.05	3.625G	225M	1M	3M	10	RMS	1
12.55	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.55							

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **PSD**

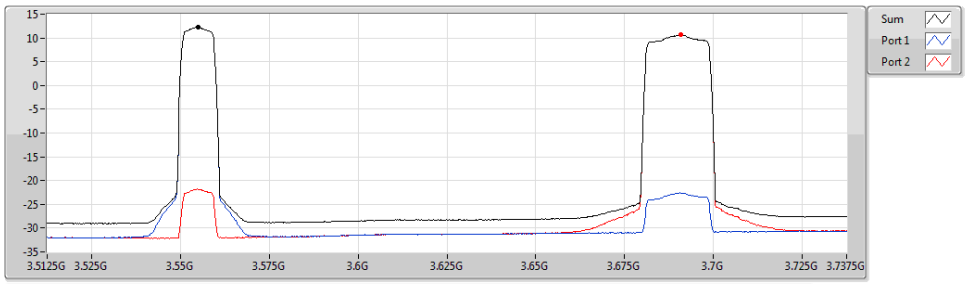
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.12	3.625G	225M	1M	3M	10	RMS	1
10.58	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.12							

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **PSD**

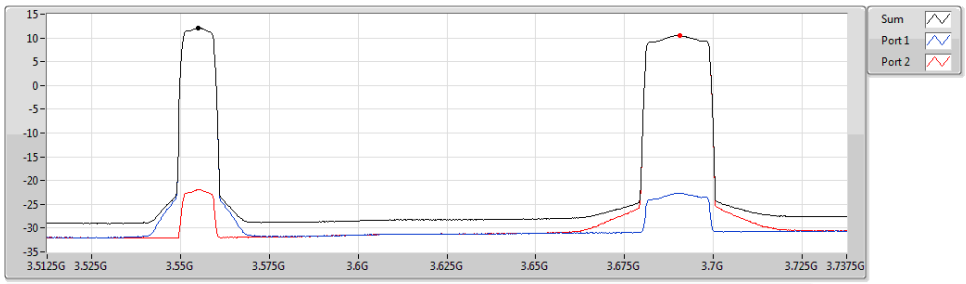
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.28	3.625G	225M	1M	3M	10	RMS	1
10.76	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.28							

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **PSD**

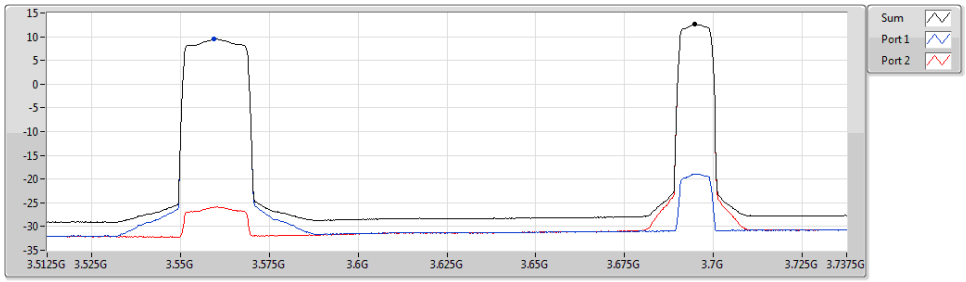
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
12.11	3.625G	225M	1M	3M	10	RMS	1
10.58	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.11							

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **PSD**

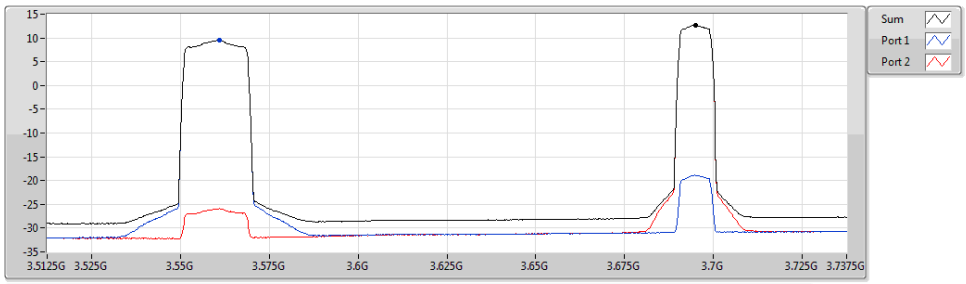
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.46	3.625G	225M	1M	3M	10	RMS	1
12.60	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.60							

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **PSD**

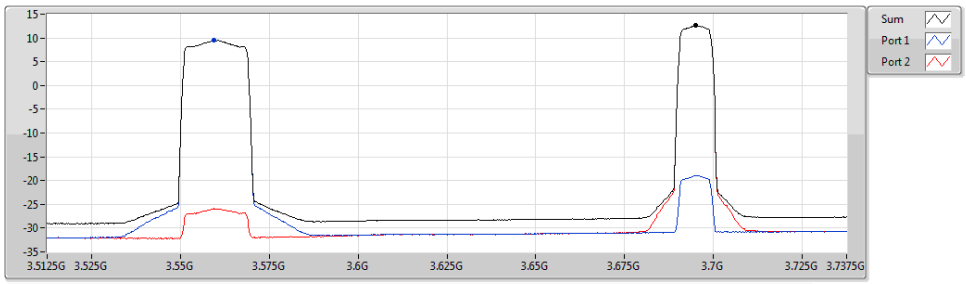
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.51	3.625G	225M	1M	3M	10	RMS	1
12.72	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.72							

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **PSD**

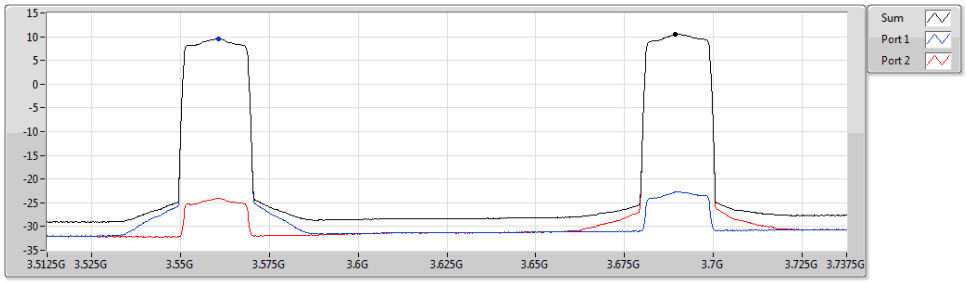
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.49	3.625G	225M	1M	3M	10	RMS	1
12.70	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
12.70							

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **PSD**

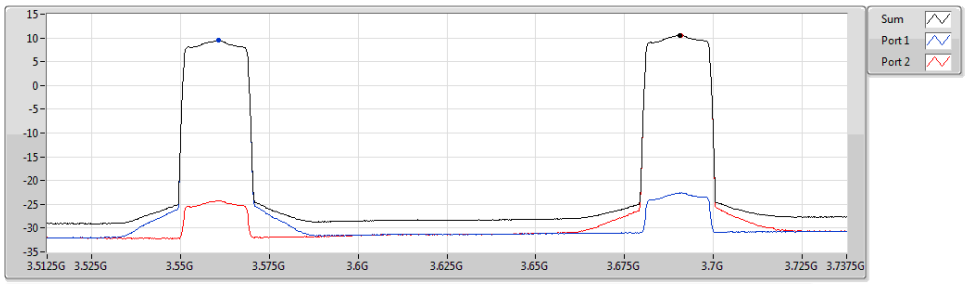
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.57	3.625G	225M	1M	3M	10	RMS	1
10.47	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.47							

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **PSD**

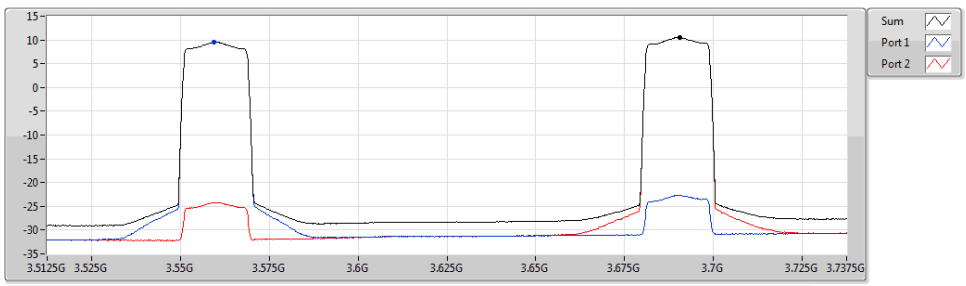
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.46	3.625G	225M	1M	3M	10	RMS	1
10.60	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.60							

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **PSD**

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



PD	CF	Span	RBW	VBW	Sweep	Detector	Port
(dBm/MHz)	(Hz)	(Hz)	(Hz)	(Hz)	(s)		
9.55	3.625G	225M	1M	3M	10	RMS	1
10.50	3.625G	225M	1M	3M	10	RMS	2
Sum PD							
(dBm/MHz)							
10.50							

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

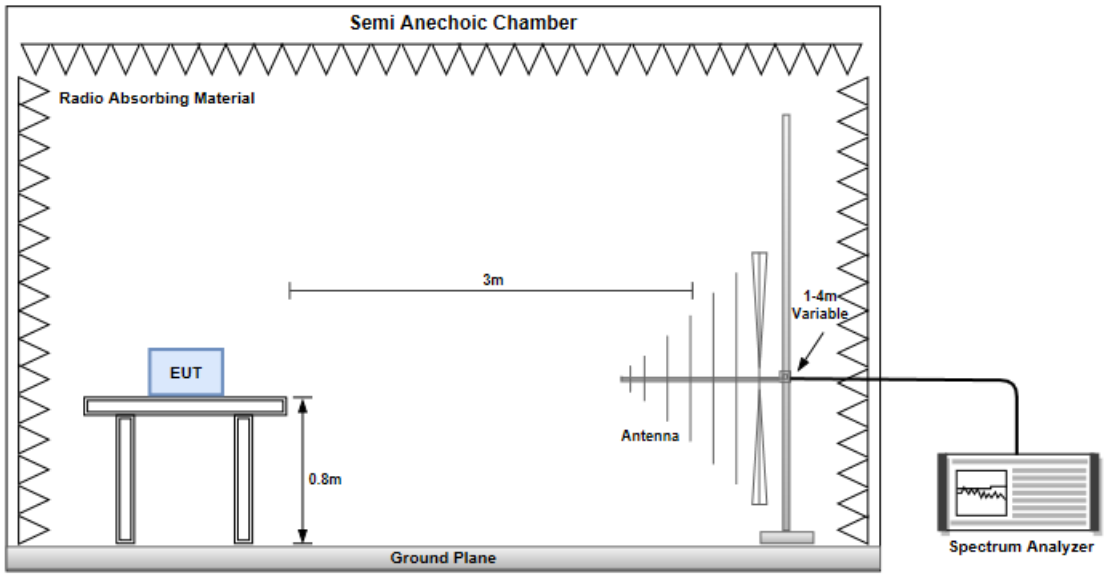
Frequency range	Limit (dBm/MHz)
Within 0-10 MHz above the Assigned Channel Within 0-10 MHz below the assigned Channel	-13
Greater than 10 MHz above the Assigned Channel Greater than 10 MHz below the Assigned Channel	-25
Power of any Emission below 3530 MHz Power of any Emission above 3720 MHz	-40

3.2.2 Test Procedures

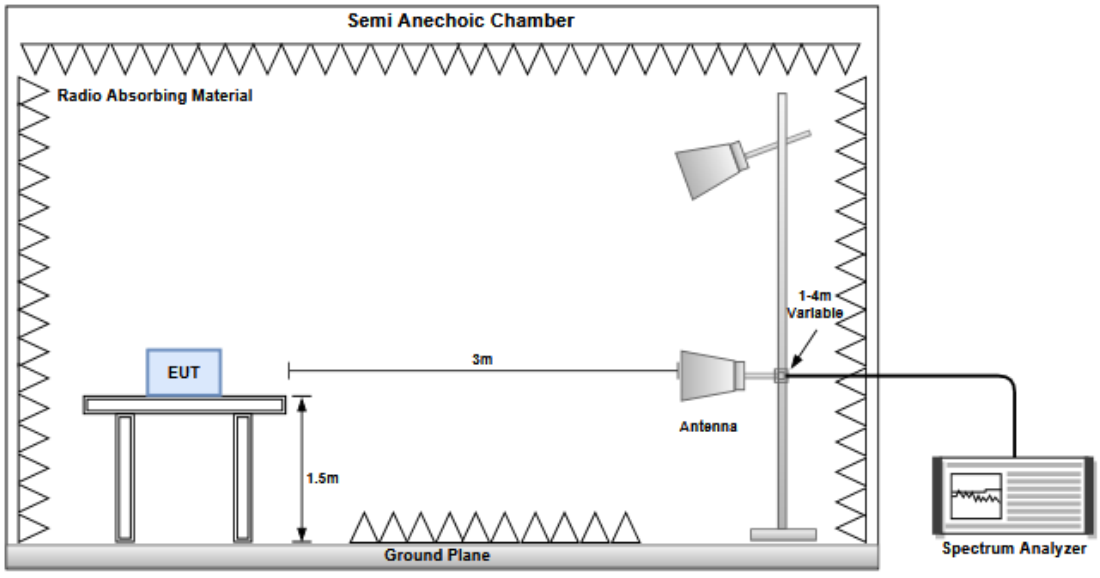
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Ambient Condition	21-22°C / 63-69%	Tested By	Akun Chung

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

Mode	LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
101.78	H	-63.82	-40	-23.82	-61.96	-58.71	-5.11
142.52	H	-62.92	-40	-22.92	-62.23	-56.22	-6.7
249.22	H	-62.31	-40	-22.31	-59.16	-61.02	-1.29
374.35	H	-64.64	-40	-24.64	-66.7	-63.48	-1.16
749.74	H	-57.92	-40	-17.92	-66.61	-55.81	-2.11
874.87	H	-58.37	-40	-18.37	-68.72	-56.31	-2.06
42.61	V	-62.32	-40	-22.32	-59.03	-45.08	-17.24
87.23	V	-56.58	-40	-16.58	-54.29	-51.01	-5.57
249.22	V	-59.3	-40	-19.3	-61.24	-58.01	-1.29
624.61	V	-59.79	-40	-19.79	-68.11	-58.04	-1.75
749.74	V	-54.18	-40	-14.18	-64.12	-52.07	-2.11
874.87	V	-53.94	-40	-13.94	-65.48	-51.88	-2.06

Mode	LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
101.55	H	-63.95	-40	-23.95	-62.1	-58.85	-5.1
142.58	H	-62.95	-40	-22.95	-62.26	-56.25	-6.7
249.36	H	-62.54	-40	-22.54	-59.39	-61.26	-1.28
374.58	H	-64.85	-40	-24.85	-66.92	-63.69	-1.16
749.55	H	-58.26	-40	-18.26	-66.94	-56.15	-2.11
874.95	H	-58.58	-40	-18.58	-68.93	-56.52	-2.06
42.54	V	-62.14	-40	-22.14	-58.83	-44.89	-17.25
87.66	V	-56.99	-40	-16.99	-54.7	-51.52	-5.47
249.36	V	-59.63	-40	-19.63	-61.58	-58.35	-1.28
624.88	V	-59.85	-40	-19.85	-68.17	-58.1	-1.75
749.88	V	-54.36	-40	-14.36	-64.31	-52.25	-2.11
874.47	V	-53.99	-40	-13.99	-65.51	-51.93	-2.06

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

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

Mode	LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 55290						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110	H	-51.41	-40	-11.41	-70.17	-55.3	3.89
10665	H	-48.41	-40	-8.41	-70.86	-49.06	0.65
14220	H	-47.12	-40	-7.12	-71.89	-46.96	-0.16
7110	V	-52.87	-40	-12.87	-72.68	-56.76	3.89
10665	V	-48.88	-40	-8.88	-70.66	-49.53	0.65
14220	V	-45.35	-40	-5.35	-71.1	-45.19	-0.16

Mode	LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 55990						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7250	H	-52.46	-40	-12.46	-71.36	-55.92	3.46
10875	H	-47.56	-40	-7.56	-70.52	-48.14	0.58
14500	H	-46.29	-40	-6.29	-70.39	-45.86	-0.43
7250	V	-51.77	-40	-11.77	-71.87	-55.23	3.46
10875	V	-48.19	-40	-8.19	-70.71	-48.77	0.58
14500	V	-45.43	-40	-5.43	-71.77	-45	-0.43

Mode	LTE Band 48, QPSK, CB:10 MHz, 50 RB Offset 0, Channel: 56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7390	H	-52.67	-40	-12.67	-71.88	-55.73	3.06
11085	H	-48.15	-40	-8.15	-71.33	-48.77	0.62
14780	H	-48.19	-40	-8.19	-72.48	-48.55	0.36
7390	V	-53.81	-40	-13.81	-73.58	-56.87	3.06
11085	V	-49.08	-40	-9.08	-72.15	-49.7	0.62
14780	V	-45.3	-40	-5.3	-72.47	-45.66	0.36

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

Mode	LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 55340						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120	H	-52.49	-40	-12.49	-71.25	-56.35	3.86
10680	H	-47.68	-40	-7.68	-70.17	-48.33	0.65
14240	H	-46.81	-40	-6.81	-71.53	-46.63	-0.18
7120	V	-51.99	-40	-11.99	-71.85	-55.85	3.86
10680	V	-49.92	-40	-9.92	-71.75	-50.57	0.65
14240	V	-45.79	-40	-5.79	-71.58	-45.61	-0.18

Mode	LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 55990						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7250	H	-53.67	-40	-13.67	-72.57	-57.13	3.46
10875	H	-48.93	-40	-8.93	-71.89	-49.51	0.58
14500	H	-48.18	-40	-8.18	-72.28	-47.75	-0.43
7250	V	-53.56	-40	-13.56	-73.66	-57.02	3.46
10875	V	-49.15	-40	-9.15	-71.67	-49.73	0.58
14500	V	-45.99	-40	-5.99	-72.33	-45.56	-0.43

Mode	LTE Band 48, QPSK, CB:20 MHz, 100 RB Offset 0, Channel: 56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7380	H	-52.07	-40	-12.07	-71.26	-55.16	3.09
11070	H	-47.06	-40	-7.06	-70.25	-47.66	0.6
14760	H	-46.97	-40	-6.97	-71.25	-47.27	0.3
7380	V	-52.06	-40	-12.06	-71.85	-55.15	3.09
11070	V	-48.61	-40	-8.61	-71.66	-49.21	0.6
14760	V	-45.52	-40	-5.52	-72.63	-45.82	0.3

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

Ambient Condition	21-22°C / 63-69%	Tested By	Akun Chung

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

Mode	LTE Band 48, QPSK, CB:10+10 MHz, 50 RB Offset 0 + 50 RB Offset 0, Channel: 55290 + 56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
101.28	H	-64.52	-40	-24.52	-62.69	-59.43	-5.09
142.66	H	-63.32	-40	-23.32	-62.63	-56.63	-6.69
249.55	H	-62.63	-40	-22.63	-59.49	-61.36	-1.27
374.66	H	-64.95	-40	-24.95	-67.02	-63.79	-1.16
749.85	H	-58.66	-40	-18.66	-67.35	-56.55	-2.11
874.95	H	-58.63	-40	-18.63	-68.98	-56.57	-2.06
42.58	V	-62.33	-40	-22.33	-59.03	-45.09	-17.24
87.78	V	-57.78	-40	-17.78	-55.49	-52.34	-5.44
249.65	V	-59.85	-40	-19.85	-61.81	-58.58	-1.27
624.77	V	-59.94	-40	-19.94	-68.26	-58.19	-1.75
749.95	V	-54.66	-40	-14.66	-64.61	-52.55	-2.11
874.58	V	-54.25	-40	-14.25	-65.78	-52.19	-2.06

Mode	LTE Band 48, QPSK, CB:10+20 MHz, 50 RB Offset 0 + 100 RB Offset 0, Channel: 55290 + 56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
101.15	H	-64.59	-40	-24.59	-62.76	-59.51	-5.08
142.54	H	-63.47	-40	-23.47	-62.78	-56.77	-6.7
249.48	H	-62.77	-40	-22.77	-59.63	-61.49	-1.28
374.95	H	-65.11	-40	-25.11	-67.18	-63.95	-1.16
749.95	H	-58.77	-40	-18.77	-67.47	-56.66	-2.11
874.33	H	-58.75	-40	-18.75	-69.09	-56.69	-2.06
42.63	V	-62.41	-40	-22.41	-59.12	-45.17	-17.24
87.58	V	-57.83	-40	-17.83	-55.54	-52.34	-5.49
249.61	V	-59.91	-40	-19.91	-61.87	-58.64	-1.27
624.71	V	-59.95	-40	-19.95	-68.27	-58.2	-1.75
749.85	V	-54.76	-40	-14.76	-64.71	-52.65	-2.11
874.36	V	-54.37	-40	-14.37	-65.89	-52.31	-2.06

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

Mode	LTE Band 48, QPSK, CB:20+10 MHz, 100 RB Offset 0 + 50 RB Offset 0, Channel: 55340 + 56690						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
101.33	H	-64.77	-40	-24.77	-62.93	-59.68	-5.09
143.25	H	-63.44	-40	-23.44	-62.74	-56.76	-6.68
249.63	H	-62.75	-40	-22.75	-59.62	-61.48	-1.27
374.88	H	-65.05	-40	-25.05	-67.12	-63.89	-1.16
749.95	H	-58.72	-40	-18.72	-67.42	-56.61	-2.11
874.33	H	-58.7	-40	-18.7	-69.04	-56.64	-2.06
42.58	V	-62.44	-40	-22.44	-59.14	-45.2	-17.24
87.42	V	-58.14	-40	-18.14	-55.85	-52.61	-5.53
249.63	V	-59.97	-40	-19.97	-61.93	-58.7	-1.27
624.77	V	-60.1	-40	-20.1	-68.42	-58.35	-1.75
749.85	V	-54.88	-40	-14.88	-64.83	-52.77	-2.11
874.33	V	-54.7	-40	-14.7	-66.22	-52.64	-2.06

Mode	LTE Band 48, QPSK, CB:20+20 MHz, 100 RB Offset 0 + 100 RB Offset 0, Channel: 55340 + 56640						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
101.39	H	-64.77	-40	-24.77	-62.93	-59.68	-5.09
142.25	H	-63.47	-40	-23.47	-62.78	-56.77	-6.7
249.45	H	-62.76	-40	-22.76	-59.62	-61.48	-1.28
374.85	H	-65.18	-40	-25.18	-67.25	-64.02	-1.16
749.54	H	-58.73	-40	-18.73	-67.41	-56.62	-2.11
874.58	H	-58.78	-40	-18.78	-69.12	-56.72	-2.06
42.77	V	-62.48	-40	-22.48	-59.22	-45.26	-17.22
87.58	V	-57.88	-40	-17.88	-55.59	-52.39	-5.49
249.54	V	-59.33	-40	-19.33	-61.29	-58.05	-1.28
624.58	V	-59.48	-40	-19.48	-67.8	-57.73	-1.75
749.65	V	-54.51	-40	-14.51	-64.45	-52.4	-2.11
874.33	V	-54.19	-40	-14.19	-65.71	-52.13	-2.06

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

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

Mode	LTE Band 48, QPSK, CB:10+10 MHz, 50 RB Offset 0 + 50 RB Offset 0, Channel: 55290 + 56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110	H	-53.09	-40	-13.09	-71.85	-56.98	3.89
7390	H	-51.93	-40	-11.93	-71.14	-54.99	3.06
10665	H	-48.09	-40	-8.09	-70.54	-48.74	0.65
11085	H	-47.15	-40	-7.15	-70.33	-47.77	0.62
14220	H	-46.28	-40	-6.28	-71.05	-46.12	-0.16
14780	H	-46.83	-40	-6.83	-71.12	-47.19	0.36
7110	V	-52.44	-40	-12.44	-72.25	-56.33	3.89
7390	V	-52.48	-40	-12.48	-72.25	-55.54	3.06
10665	V	-49.96	-40	-9.96	-71.74	-50.61	0.65
11085	V	-48.51	-40	-8.51	-71.58	-49.13	0.62
14220	V	-45.5	-40	-5.5	-71.25	-45.34	-0.16
14780	V	-44.16	-40	-4.16	-71.33	-44.52	0.36

Mode	LTE Band 48, QPSK, CB:10+20 MHz, 50 RB Offset 0 + 100 RB Offset 0, Channel: 55290 + 56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7110	H	-52.49	-40	-12.49	-71.25	-56.38	3.89
7380	H	-52	-40	-12	-71.19	-55.09	3.09
10665	H	-47.81	-40	-7.81	-70.26	-48.46	0.65
11070	H	-47.18	-40	-7.18	-70.37	-47.78	0.6
14220	H	-46.62	-40	-6.62	-71.39	-46.46	-0.16
14760	H	-46.9	-40	-6.9	-71.18	-47.2	0.3
7110	V	-52.05	-40	-12.05	-71.86	-55.94	3.89
7380	V	-51.79	-40	-11.79	-71.58	-54.88	3.09
10665	V	-50	-40	-10	-71.78	-50.65	0.65
11070	V	-48.47	-40	-8.47	-71.52	-49.07	0.6
14220	V	-45.64	-40	-5.64	-71.39	-45.48	-0.16
14760	V	-44.34	-40	-4.34	-71.45	-44.64	0.3

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

Mode	LTE Band 48, QPSK, CB:20+10 MHz, 100 RB Offset 0 + 50 RB Offset 0, Channel: 55340 + 56690						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120	H	-52.53	-40	-12.53	-71.29	-56.39	3.86
7390	H	-52.12	-40	-12.12	-71.33	-55.18	3.06
10680	H	-47.84	-40	-7.84	-70.33	-48.49	0.65
11085	H	-47.07	-40	-7.07	-70.25	-47.69	0.62
14240	H	-45.67	-40	-5.67	-70.39	-45.49	-0.18
14780	H	-47.09	-40	-7.09	-71.38	-47.45	0.36
7120	V	-51.99	-40	-11.99	-71.85	-55.85	3.86
7390	V	-52.1	-40	-12.1	-71.87	-55.16	3.06
10680	V	-48.95	-40	-8.95	-70.78	-49.6	0.65
11085	V	-48.65	-40	-8.65	-71.72	-49.27	0.62
14240	V	-45.79	-40	-5.79	-71.58	-45.61	-0.18
14780	V	-44.27	-40	-4.27	-71.44	-44.63	0.36

Mode	LTE Band 48, QPSK, CB:20+20 MHz, 100 RB Offset 0 + 100 RB Offset 0, Channel: 55340 + 56640						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
7120	H	-52.49	-40	-12.49	-71.25	-56.35	3.86
7380	H	-51.96	-40	-11.96	-71.15	-55.05	3.09
10680	H	-48.09	-40	-8.09	-70.58	-48.74	0.65
11070	H	-47.44	-40	-7.44	-70.63	-48.04	0.6
14240	H	-45.98	-40	-5.98	-70.7	-45.8	-0.18
14760	H	-46.24	-40	-6.24	-70.52	-46.54	0.3
7120	V	-52.03	-40	-12.03	-71.89	-55.89	3.86
7380	V	-51.98	-40	-11.98	-71.77	-55.07	3.09
10680	V	-49.04	-40	-9.04	-70.87	-49.69	0.65
11070	V	-47.93	-40	-7.93	-70.98	-48.53	0.6
14240	V	-45.79	-40	-5.79	-71.58	-45.61	-0.18
14760	V	-44.33	-40	-4.33	-71.44	-44.63	0.3

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

3.3 Conducted Emissions & Band Edge

3.3.1 Limit of Conducted Emissions & Band Edge

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

3.3.2 Test Procedures

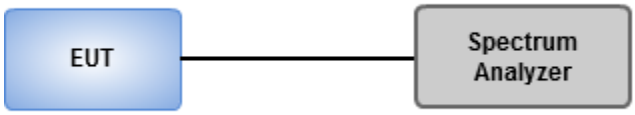
Emission below 3530 MHz / Emission above 3720 MHz

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 40 GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

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

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

3.3.3 Test Setup



Ambient Condition	18-22°C / 64-66%	**Tested By**	Aska Huang

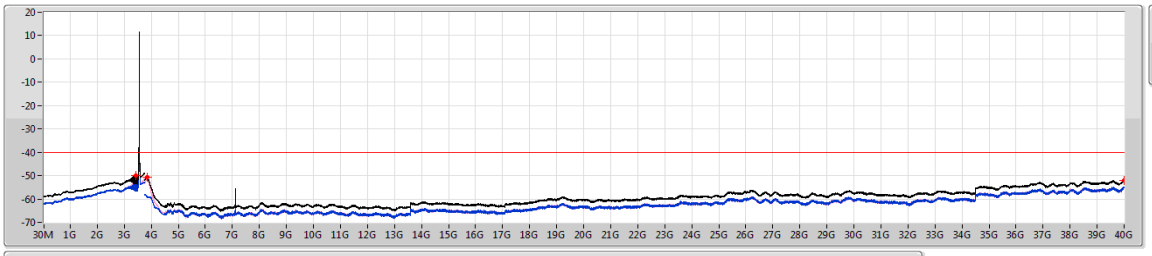
3.3.4 Test Result of Conducted Emissions & Band Edge (CDD Mode)

Conducted Emissions Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	30M	3.51G	1M	3M	RMS	3.43649G	-49.87	-40.00	-9.87	-	-
LTE_10MHz_Nss1,16QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.43605G	-49.96	-40.00	-9.96	-	-
LTE_10MHz_Nss1,64QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.34079G	-50.70	-40.00	-10.70	-	-
LTE_20MHz_Nss1,QPSK_2TX	Pass	30M	3.51G	1M	3M	RMS	3.50348G	-49.02	-40.00	-9.02	-	-
LTE_20MHz_Nss1,16QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.50913G	-48.41	-40.00	-8.41	-	-
LTE_20MHz_Nss1,64QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.51G	-49.37	-40.00	-9.37	-	-

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

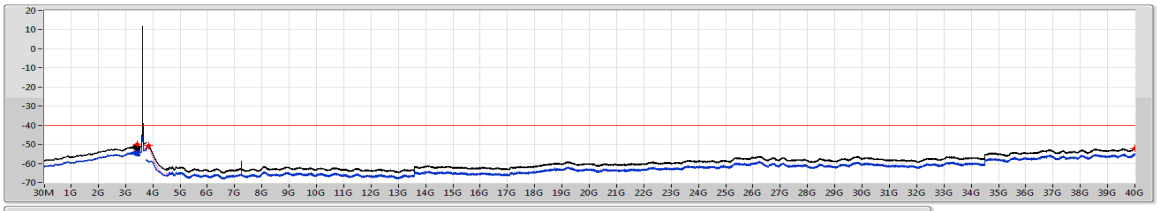
3555MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43649G	-49.87	-40.00	-9.87	-	-	-52.97	-52.79
3.75G	4.5G	1M	3M	RMS	3.84713G	-50.68	-40.00	-10.68	-	-	-59.02	-51.37
4.5G	40G	1M	3M	RMS	39.99002G	-51.93	-40.00	-11.93	-	-	-54.93	-54.96

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

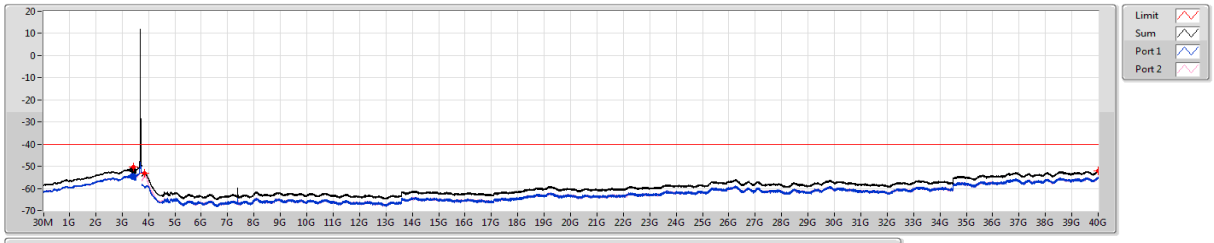
3625MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43605G	-49.98	-40.00	-9.98	-	-	-53.52	-52.52
3.75G	4.5G	1M	3M	RMS	3.84525G	-50.81	-40.00	-10.81	-	-	-58.97	-51.53
4.5G	40G	1M	3M	RMS	39.99889G	-51.99	-40.00	-11.99	-	-	-55.16	-54.84

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

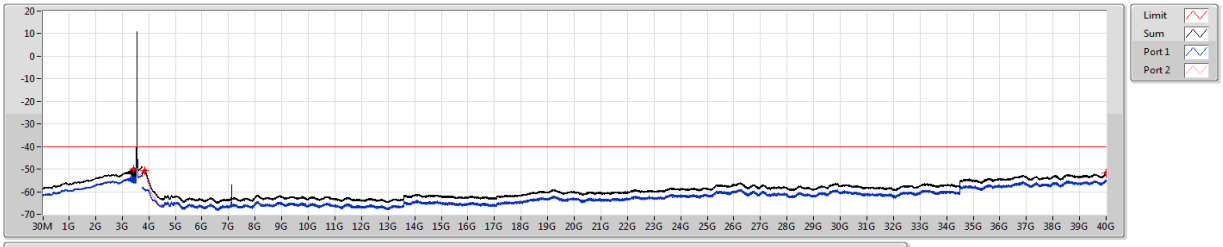
3695MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42909G	-50.28	-40.00	-10.28	-	-	-52.58	-54.13
3.75G	4.5G	1M	3M	RMS	3.85125G	-53.06	-40.00	-13.06	-	-	-59.25	-54.25
4.5G	40G	1M	3M	RMS	39.99667G	-51.95	-40.00	-11.95	-	-	-54.84	-55.08

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

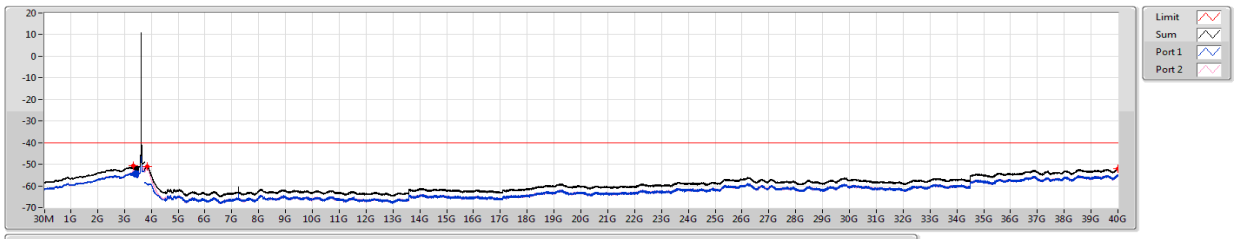
3555MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43605G	-49.96	-40.00	-9.96	-	-	-52.67	-53.30
3.75G	4.5G	1M	3M	RMS	3.84338G	-50.74	-40.00	-10.74	-	-	-59.11	-51.42
4.5G	40G	1M	3M	RMS	39.99778G	-51.79	-40.00	-11.79	-	-	-54.96	-54.65

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

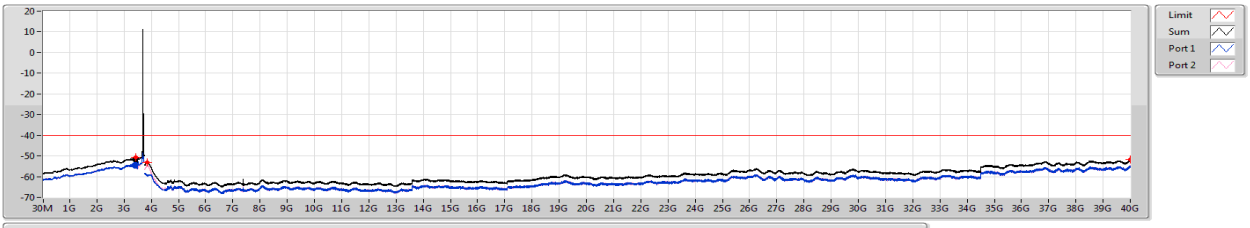
3625MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.33687G	-50.75	-40.00	-10.75	-	-	-55.28	-52.63
3.75G	4.5G	1M	3M	RMS	3.83663G	-50.97	-40.00	-10.97	-	-	-59.19	-51.68
4.5G	40G	1M	3M	RMS	39.99889G	-51.94	-40.00	-11.94	-	-	-55.18	-54.73

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

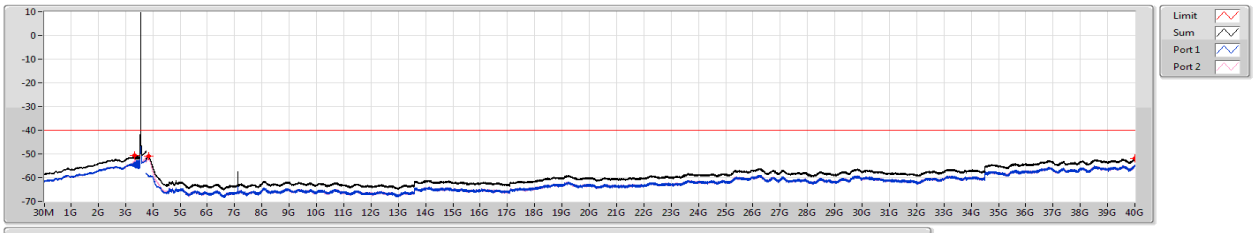
3695MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.4404G	-50.83	-40.00	-10.83	-	-	-53.83	-53.85
3.75G	4.5G	1M	3M	RMS	3.8445G	-53.13	-40.00	-13.13	-	-	-59.39	-54.30
4.5G	40G	1M	3M	RMS	39.99556G	-51.82	-40.00	-11.82	-	-	-55.14	-54.55

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

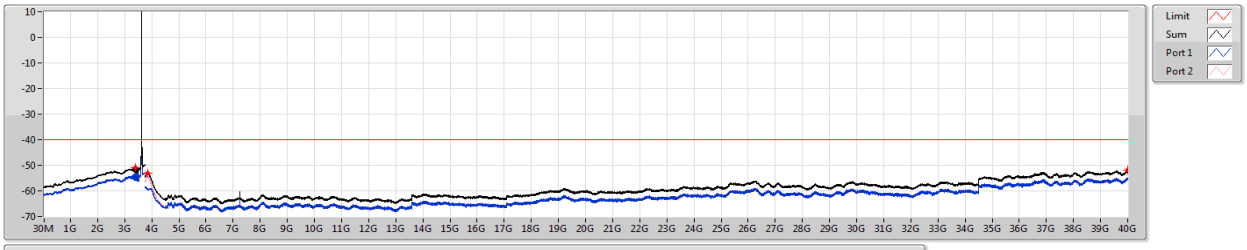
3555MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.34079G	-50.70	-40.00	-10.70	-	-	-55.18	-52.61
3.75G	4.5G	1M	3M	RMS	3.84188G	-50.91	-40.00	-10.91	-	-	-59.26	-51.60
4.5G	40G	1M	3M	RMS	39.99556G	-51.88	-40.00	-11.88	-	-	-54.79	-55.00

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

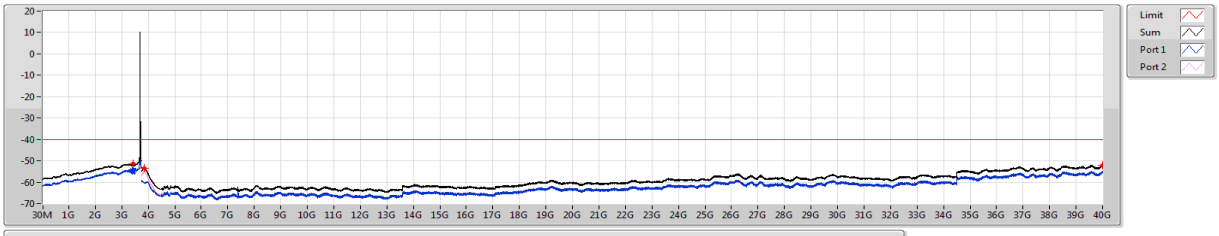
3625MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.40691G	-51.02	-40.00	-11.02	-	-	-53.54	-54.58
3.75G	4.5G	1M	3M	RMS	3.85163G	-53.02	-40.00	-13.02	-	-	-59.37	-54.17
4.5G	40G	1M	3M	RMS	39.98558G	-51.95	-40.00	-11.95	-	-	-55.04	-54.89

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

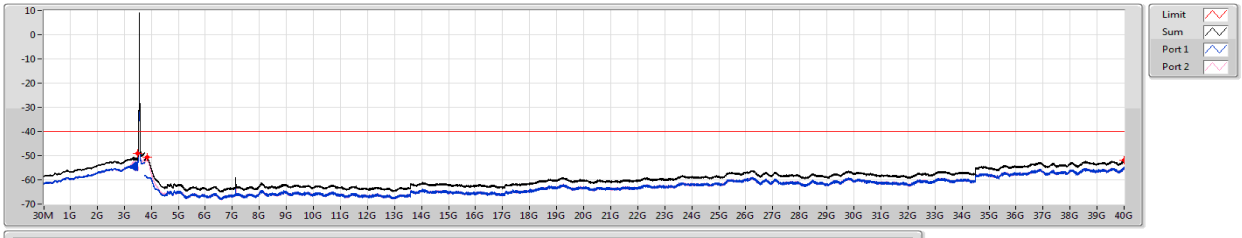
3695MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42953G	-51.30	-40.00	-11.30	-	-	-53.29	-55.65
3.75G	4.5G	1M	3M	RMS	3.85575G	-53.48	-40.00	-13.48	-	-	-60.32	-54.49
4.5G	40G	1M	3M	RMS	39.99113G	-51.96	-40.00	-11.96	-	-	-55.03	-54.92

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

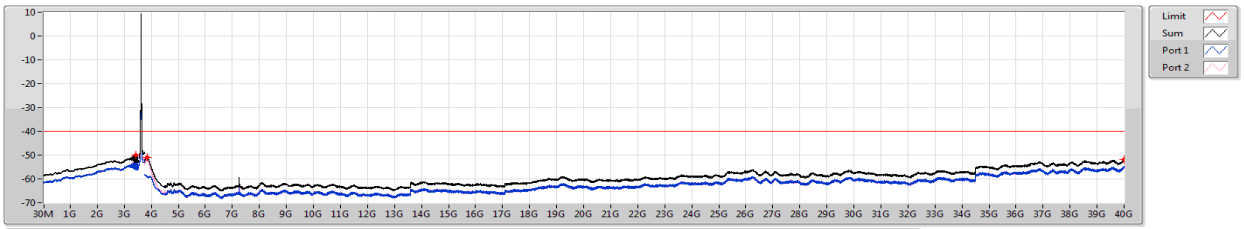
3560MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.50348G	-49.02	-40.00	-9.02	-	-	-56.06	-49.98
3.75G	4.5G	1M	3M	RMS	3.83513G	-50.72	-40.00	-10.72	-	-	-58.79	-51.46
4.5G	40G	1M	3M	RMS	39.99223G	-51.92	-40.00	-11.92	-	-	-54.91	-54.95

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

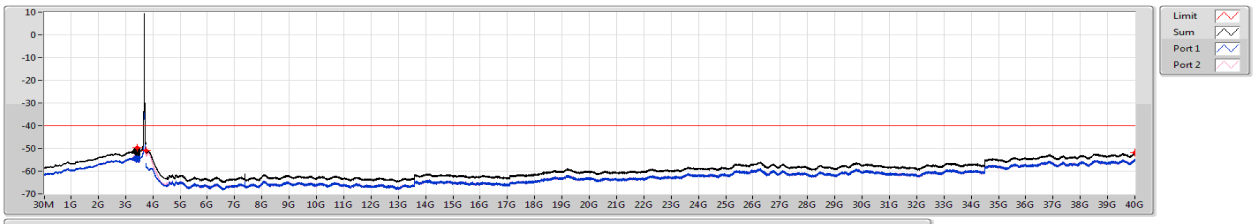
3625MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43388G	-50.07	-40.00	-10.07	-	-	-53.50	-52.69
3.75G	4.5G	1M	3M	RMS	3.85275G	-50.92	-40.00	-10.92	-	-	-59.16	-51.63
4.5G	40G	1M	3M	RMS	39.99334G	-51.85	-40.00	-11.85	-	-	-54.90	-54.83

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

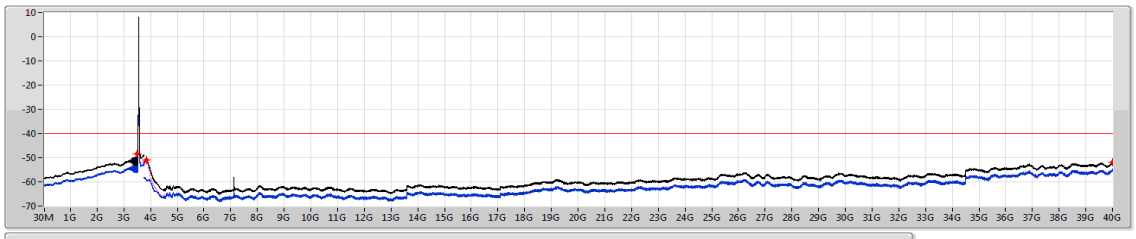
3690MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43127G	-49.67	-40.00	-9.67	-	-	-52.56	-52.81
3.75G	4.5G	1M	3M	RMS	3.75038G	-51.09	-40.00	-11.09	-	-	-56.57	-52.53
4.5G	40G	1M	3M	RMS	40G	-51.72	-40.00	-11.72	-	-	-54.63	-54.84

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

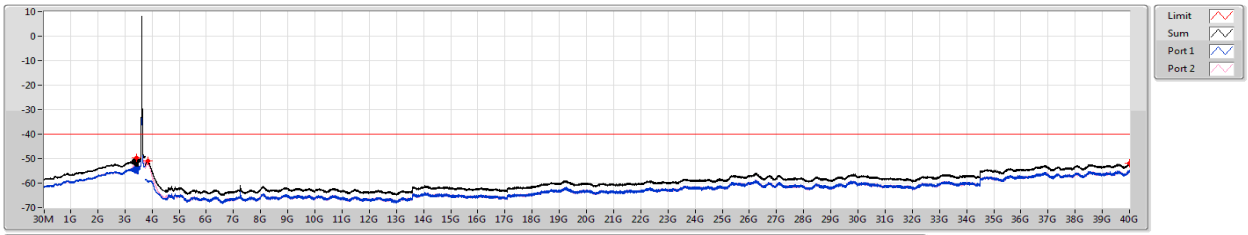
3560MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.50913G	-48.41	-40.00	-8.41	-	-	-51.46	-51.39
3.75G	4.5G	1M	3M	RMS	3.8445G	-50.86	-40.00	-10.86	-	-	-59.21	-51.55
4.5G	40G	1M	3M	RMS	39.99778G	-51.93	-40.00	-11.93	-	-	-54.93	-54.96

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

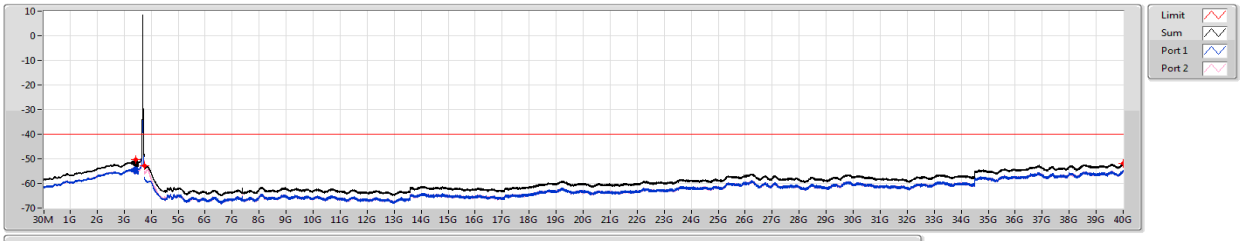
3625MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43301G	-49.71	-40.00	-9.71	-	-	-52.82	-52.63
3.75G	4.5G	1M	3M	RMS	3.84975G	-51.06	-40.00	-11.06	-	-	-59.40	-51.75
4.5G	40G	1M	3M	RMS	39.99223G	-51.82	-40.00	-11.82	-	-	-54.80	-54.86

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

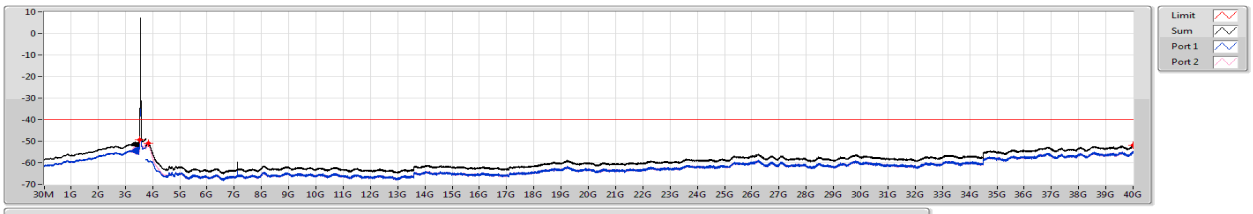
3690MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43083G	-50.40	-40.00	-10.40	-	-	-53.14	-53.70
3.75G	4.5G	1M	3M	RMS	3.75038G	-52.94	-40.00	-12.94	-	-	-57.44	-54.85
4.5G	40G	1M	3M	RMS	39.99556G	-51.92	-40.00	-11.92	-	-	-55.12	-54.75

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

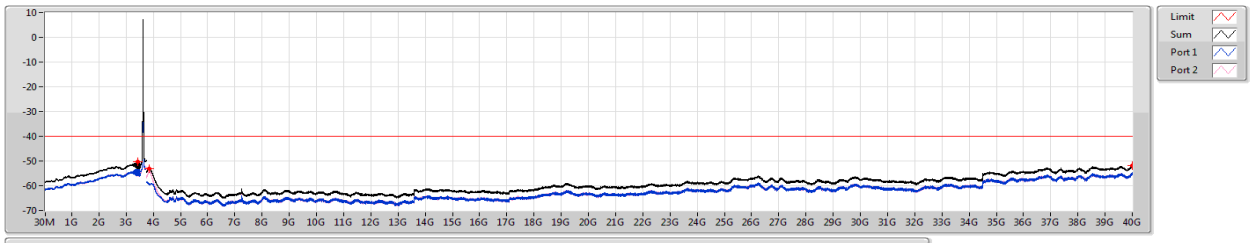
3560MHz_64QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.51G	-49.37	-40.00	-9.37	-	-	-53.78	-51.33
3.75G	4.5G	1M	3M	RMS	3.84488G	-50.90	-40.00	-10.90	-	-	-59.28	-51.58
4.5G	40G	1M	3M	RMS	39.99223G	-51.85	-40.00	-11.85	-	-	-54.68	-55.04

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

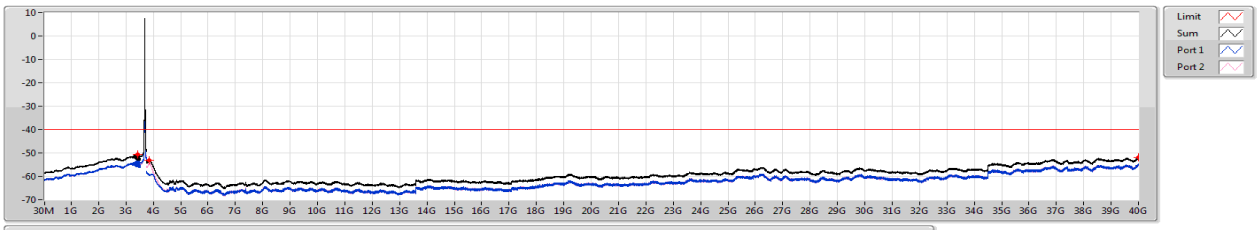
3625MHz_64QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.44084G	-50.41	-40.00	-10.41	-	-	-52.77	-54.19
3.75G	4.5G	1M	3M	RMS	3.83775G	-53.12	-40.00	-13.12	-	-	-59.21	-54.35
4.5G	40G	1M	3M	RMS	40G	-51.75	-40.00	-11.75	-	-	-54.74	-54.79

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

3690MHz_64QAM_RB 100,#RB 0



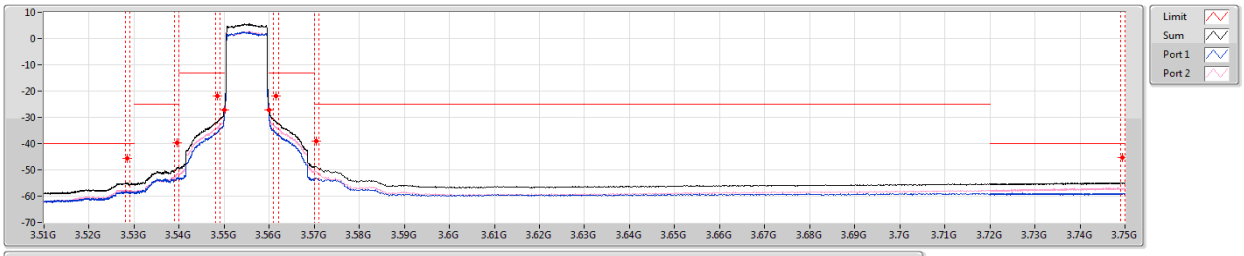
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42344G	-50.60	-40.00	-10.60	-	-	-52.93	-54.41
3.75G	4.5G	1M	3M	RMS	3.85238G	-53.22	-40.00	-13.22	-	-	-59.53	-54.38
4.5G	40G	1M	3M	RMS	39.98558G	-51.87	-40.00	-11.87	-	-	-54.86	-54.90

Band Edge
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7225G	-43.63	-40.00	-3.63	MBW 1M	-
LTE_10MHz_Nss1,16QAM_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7205G	-44.49	-40.00	-4.49	MBW 1M	-
LTE_10MHz_Nss1,64QAM_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7205G	-45.02	-40.00	-5.02	MBW 1M	-
LTE_20MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-40.92	-40.00	-0.92	MBW 1M	-
LTE_20MHz_Nss1,16QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-42.08	-40.00	-2.08	MBW 1M	-
LTE_20MHz_Nss1,64QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-42.66	-40.00	-2.66	MBW 1M	-

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

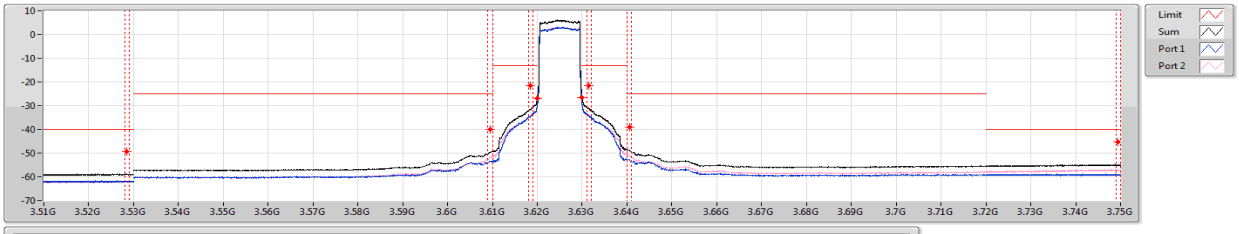
3555MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5285G	-45.56	-40.00	-5.56	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-39.80	-25.00	-14.80	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-21.84	-13.00	-8.84	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-27.23	-13.00	-14.23	-	-	-30.63	-29.89
3.56G	3.561G	100k	300k	RMS	3.56G	-27.08	-13.00	-14.08	-	-	-30.68	-29.58
3.561G	3.57G	100k	300k	RMS	3.5615G	-21.99	-13.00	-8.99	MBW 1M	-	-	-
3.57G	3.72G	100k	300k	RMS	3.5705G	-39.21	-25.00	-14.21	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7495G	-45.32	-40.00	-5.32	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

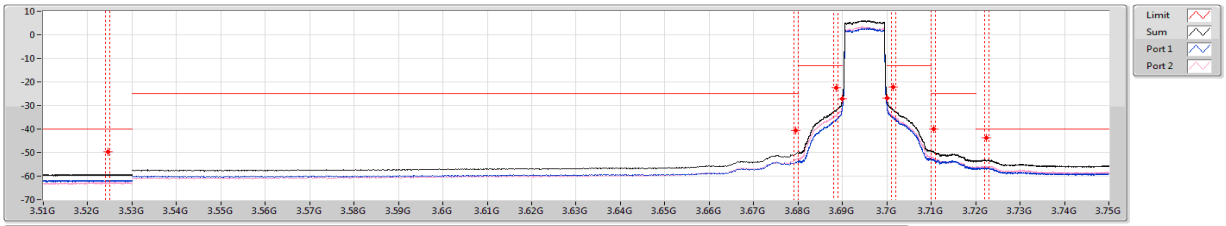
3625MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5285G	-49.31	-40.00	-9.31	MBW 1M	-	-	-
3.53G	3.61G	100k	300k	RMS	3.6095G	-39.93	-25.00	-14.93	MBW 1M	-	-	-
3.61G	3.619G	100k	300k	RMS	3.6185G	-21.70	-13.00	-8.70	MBW 1M	-	-	-
3.619G	3.62G	100k	300k	RMS	3.62G	-26.89	-13.00	-13.89	-	-	-29.63	-30.19
3.63G	3.631G	100k	300k	RMS	3.63G	-26.67	-13.00	-13.67	-	-	-29.71	-29.65
3.631G	3.64G	100k	300k	RMS	3.6315G	-21.51	-13.00	-8.51	MBW 1M	-	-	-
3.64G	3.72G	100k	300k	RMS	3.6405G	-39.16	-25.00	-14.16	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7495G	-45.33	-40.00	-5.33	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

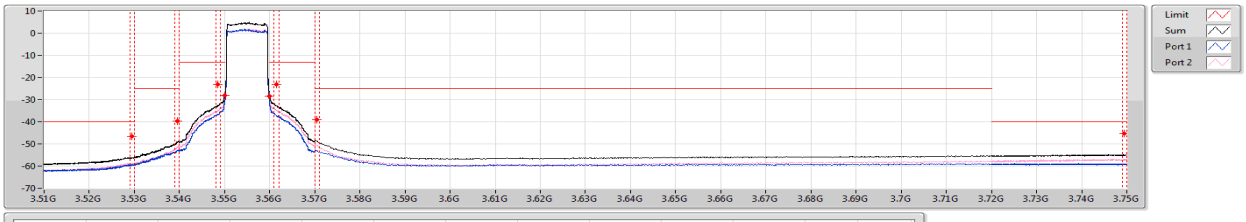
3695MHz_QPSK_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5245G	-49.73	-40.00	-9.73	MBW 1M	-	-	-
3.53G	3.68G	100k	300k	RMS	3.6795G	-40.76	-25.00	-15.76	MBW 1M	-	-	-
3.68G	3.689G	100k	300k	RMS	3.6885G	-22.35	-13.00	-9.35	MBW 1M	-	-	-
3.689G	3.69G	100k	300k	RMS	3.69G	-27.31	-13.00	-14.31	-	-	-30.62	-30.04
3.7G	3.701G	100k	300k	RMS	3.7G	-26.85	-13.00	-13.85	-	-	-30.27	-29.48
3.701G	3.71G	100k	300k	RMS	3.7015G	-22.21	-13.00	-9.21	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-40.04	-25.00	-15.04	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7225G	-43.63	-40.00	-3.63	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

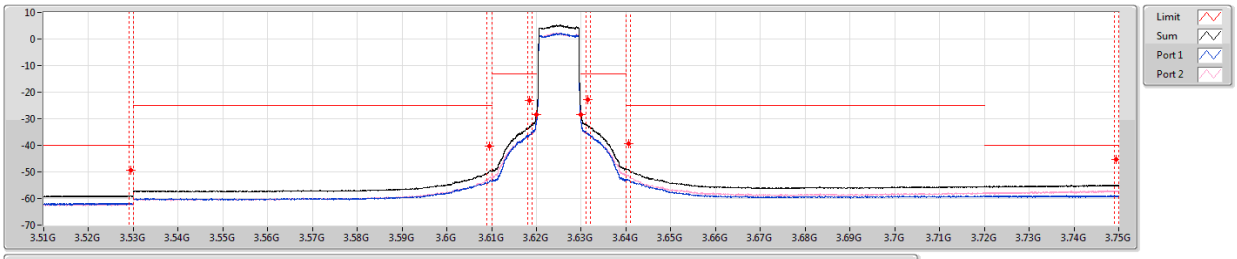
3555MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-46.55	-40.00	-6.55	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-39.65	-25.00	-14.65	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-23.01	-13.00	-10.01	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-28.23	-13.00	-15.23	-	-	-31.81	-30.73
3.56G	3.561G	100k	300k	RMS	3.56G	-28.55	-13.00	-15.55	-	-	-32.21	-30.99
3.561G	3.57G	100k	300k	RMS	3.5615G	-23.07	-13.00	-10.07	MBW 1M	-	-	-
3.57G	3.72G	100k	300k	RMS	3.5705G	-39.10	-25.00	-14.10	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7495G	-45.31	-40.00	-5.31	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

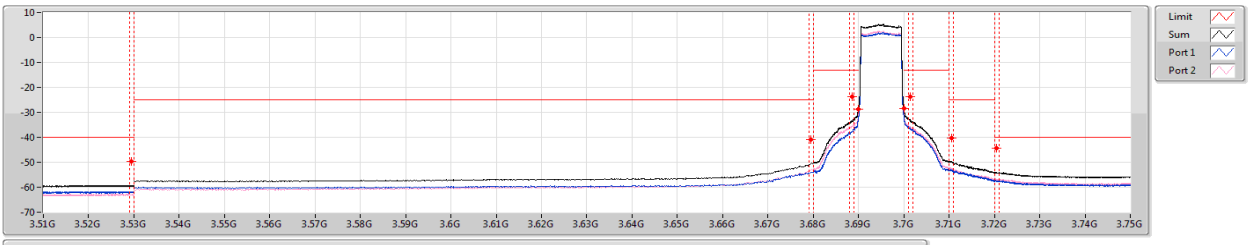
3625MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-49.38	-40.00	-9.38	MBW 1M	-	-	-
3.53G	3.61G	100k	300k	RMS	3.6095G	-40.22	-25.00	-15.22	MBW 1M	-	-	-
3.61G	3.619G	100k	300k	RMS	3.6185G	-23.28	-13.00	-10.28	MBW 1M	-	-	-
3.619G	3.62G	100k	300k	RMS	3.62G	-28.43	-13.00	-15.43	-	-	-31.28	-31.60
3.63G	3.631G	100k	300k	RMS	3.63G	-28.47	-13.00	-15.47	-	-	-31.46	-31.50
3.631G	3.64G	100k	300k	RMS	3.6315G	-22.96	-13.00	-9.96	MBW 1M	-	-	-
3.64G	3.72G	100k	300k	RMS	3.6405G	-39.49	-25.00	-14.49	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7495G	-45.40	-40.00	-5.40	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

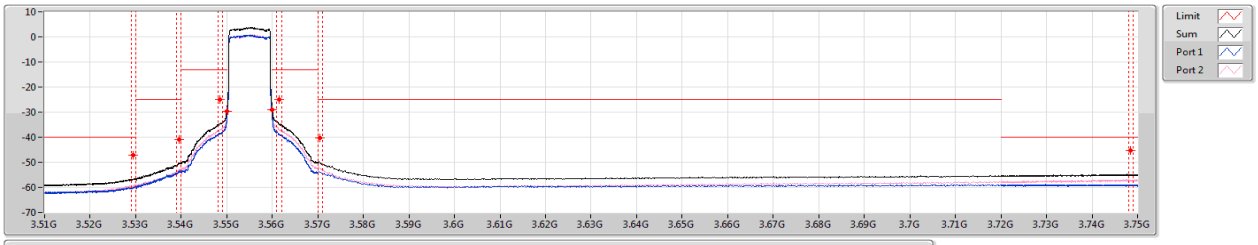
3695MHz_16QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-49.79	-40.00	-9.79	MBW 1M	-	-	-
3.53G	3.68G	100k	300k	RMS	3.6795G	-40.86	-25.00	-15.86	MBW 1M	-	-	-
3.68G	3.689G	100k	300k	RMS	3.6885G	-23.86	-13.00	-10.86	MBW 1M	-	-	-
3.689G	3.69G	100k	300k	RMS	3.69G	-28.65	-13.00	-15.65	-	-	-32.18	-31.20
3.7G	3.701G	100k	300k	RMS	3.7G	-28.54	-13.00	-15.54	-	-	-31.82	-31.29
3.701G	3.71G	100k	300k	RMS	3.7015G	-23.60	-13.00	-10.60	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-40.22	-25.00	-15.22	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-44.49	-40.00	-4.49	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

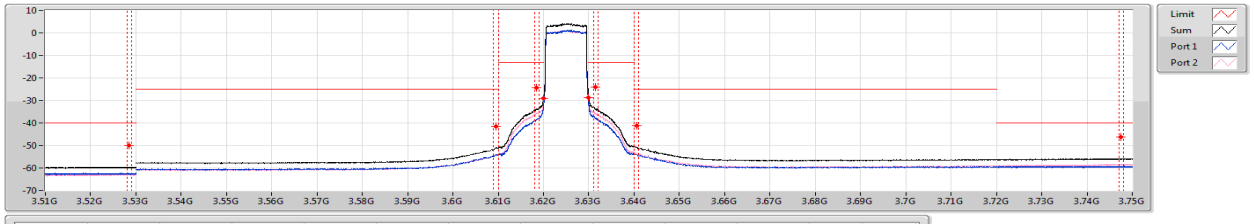
3555MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-47.11	-40.00	-7.11	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-40.90	-25.00	-15.90	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-25.03	-13.00	-12.03	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-29.75	-13.00	-16.75	-	-	-33.24	-32.32
3.56G	3.561G	100k	300k	RMS	3.56G	-29.15	-13.00	-16.15	-	-	-32.55	-31.80
3.561G	3.57G	100k	300k	RMS	3.5615G	-24.87	-13.00	-11.87	MBW 1M	-	-	-
3.57G	3.72G	100k	300k	RMS	3.5705G	-40.46	-25.00	-15.46	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7485G	-45.38	-40.00	-5.38	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

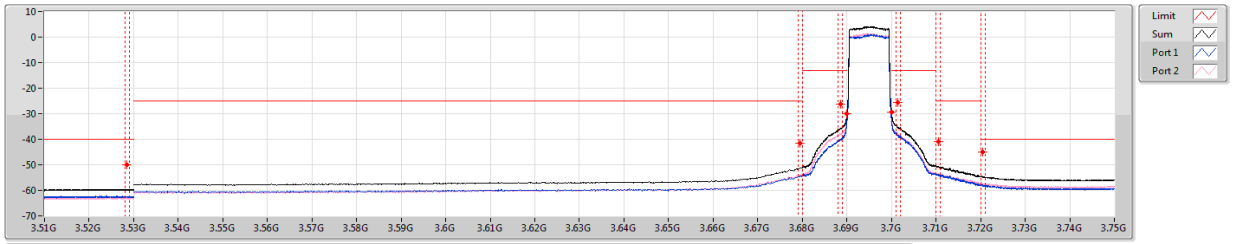
3625MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5285G	-50.07	-40.00	-10.07	MBW 1M	-	-	-
3.53G	3.61G	100k	300k	RMS	3.6095G	-41.55	-25.00	-16.55	MBW 1M	-	-	-
3.61G	3.619G	100k	300k	RMS	3.6185G	-24.25	-13.00	-11.25	MBW 1M	-	-	-
3.619G	3.62G	100k	300k	RMS	3.62G	-29.03	-13.00	-16.03	-	-	-32.55	-31.59
3.63G	3.631G	100k	300k	RMS	3.63G	-28.60	-13.00	-15.60	-	-	-32.19	-31.10
3.631G	3.64G	100k	300k	RMS	3.6315G	-23.97	-13.00	-10.97	MBW 1M	-	-	-
3.64G	3.72G	100k	300k	RMS	3.6405G	-41.13	-25.00	-16.13	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7475G	-46.26	-40.00	-6.26	MBW 1M	-	-	-

Band 48_LTE_10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

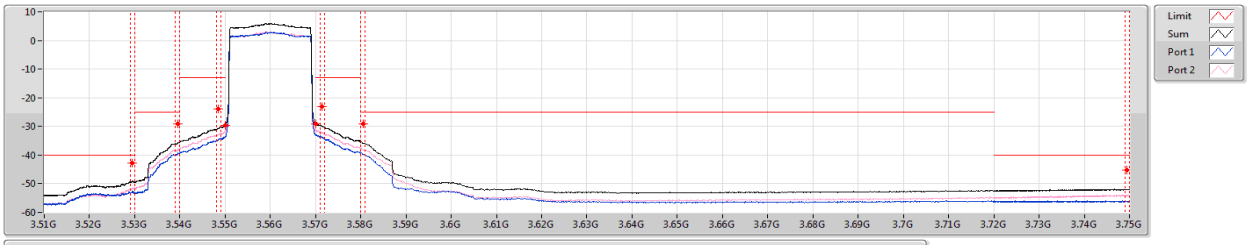
3695MHz_64QAM_RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5285G	-50.06	-40.00	-10.06	MBW 1M	-	-	-
3.53G	3.68G	100k	300k	RMS	3.6795G	-41.50	-25.00	-16.50	MBW 1M	-	-	-
3.68G	3.689G	100k	300k	RMS	3.6885G	-26.17	-13.00	-13.17	MBW 1M	-	-	-
3.689G	3.69G	100k	300k	RMS	3.69G	-29.89	-13.00	-16.89	-	-	-33.43	-32.43
3.7G	3.701G	100k	300k	RMS	3.7G	-29.22	-13.00	-16.22	-	-	-32.57	-31.92
3.701G	3.71G	100k	300k	RMS	3.7015G	-25.52	-13.00	-12.52	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-41.09	-25.00	-16.09	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-45.02	-40.00	-5.02	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

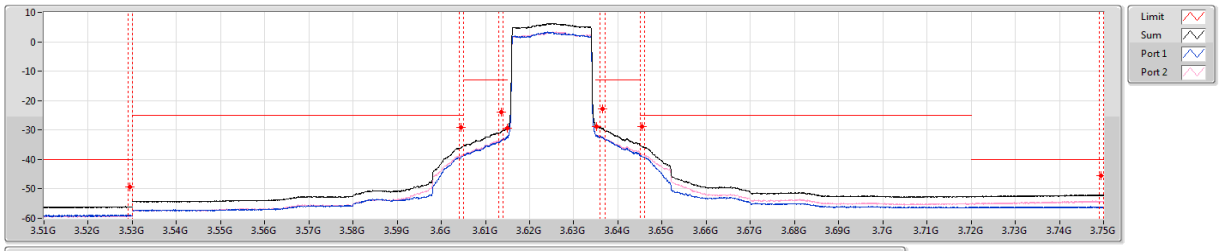
3560MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-42.64	-40.00	-2.64	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-29.11	-25.00	-4.11	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-23.93	-13.00	-10.93	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-29.67	-13.00	-16.67	-	-	-33.70	-31.85
3.57G	3.571G	200k	620k	RMS	3.57014G	-29.14	-13.00	-16.14	-	-	-33.05	-31.41
3.571G	3.58G	200k	620k	RMS	3.5715G	-23.20	-13.00	-10.20	MBW 1M	-	-	-
3.58G	3.72G	200k	620k	RMS	3.5805G	-29.01	-25.00	-4.01	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7495G	-45.33	-40.00	-5.33	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

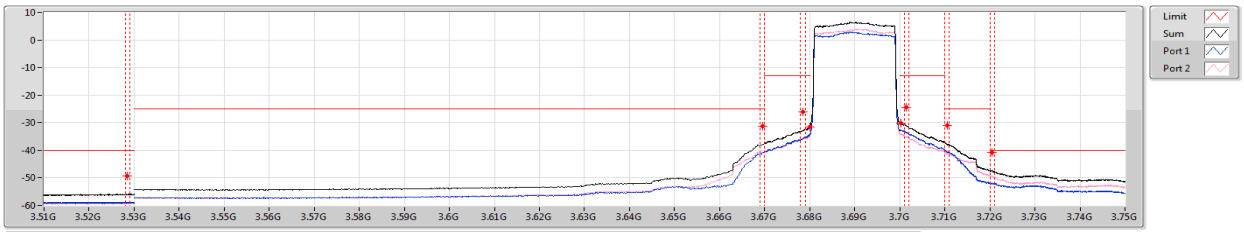
3625MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-49.43	-40.00	-9.43	MBW 1M	-	-	-
3.53G	3.605G	200k	620k	RMS	3.6045G	-29.22	-25.00	-4.22	MBW 1M	-	-	-
3.605G	3.614G	200k	620k	RMS	3.6135G	-23.85	-13.00	-10.85	MBW 1M	-	-	-
3.614G	3.615G	200k	620k	RMS	3.61498G	-29.26	-13.00	-16.26	-	-	-32.23	-32.31
3.635G	3.636G	200k	620k	RMS	3.63511G	-28.79	-13.00	-15.79	-	-	-31.86	-31.75
3.636G	3.645G	200k	620k	RMS	3.6365G	-22.80	-13.00	-9.80	MBW 1M	-	-	-
3.645G	3.72G	200k	620k	RMS	3.6455G	-28.84	-25.00	-3.84	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7495G	-45.44	-40.00	-5.44	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

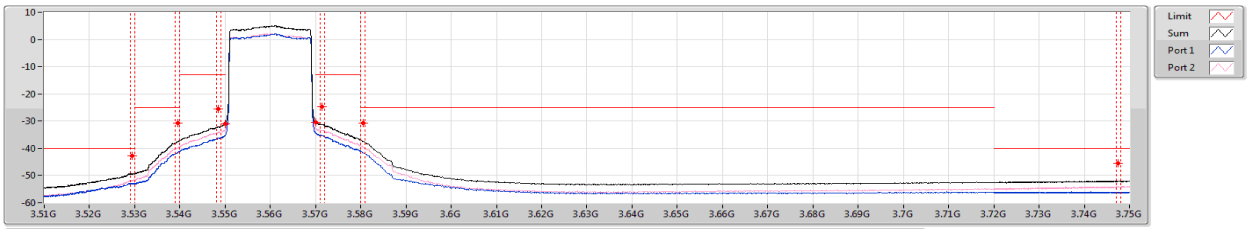
3690MHz_QPSK_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5285G	-49.38	-40.00	-9.38	MBW 1M	-	-	-
3.53G	3.67G	200k	620k	RMS	3.6695G	-31.21	-25.00	-6.21	MBW 1M	-	-	-
3.67G	3.679G	200k	620k	RMS	3.6785G	-26.12	-13.00	-13.12	MBW 1M	-	-	-
3.679G	3.68G	200k	620k	RMS	3.67998G	-31.56	-13.00	-18.56	-	-	-34.26	-34.90
3.7G	3.701G	200k	620k	RMS	3.70016G	-30.28	-13.00	-17.28	-	-	-32.65	-34.04
3.701G	3.71G	200k	620k	RMS	3.7015G	-24.50	-13.00	-11.50	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-31.06	-25.00	-6.06	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-40.92	-40.00	-0.92	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

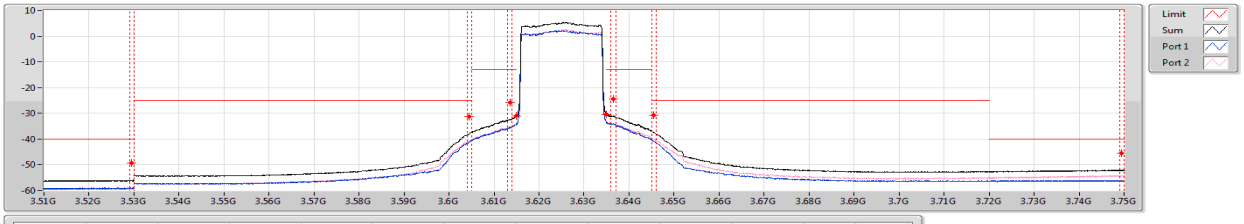
3560MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-42.68	-40.00	-2.68	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-30.84	-25.00	-5.84	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-25.44	-13.00	-12.44	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-31.03	-13.00	-18.03	-	-	-35.15	-33.15
3.57G	3.571G	200k	620k	RMS	3.57G	-30.45	-13.00	-17.45	-	-	-34.30	-32.75
3.571G	3.58G	200k	620k	RMS	3.5715G	-24.60	-13.00	-11.60	MBW 1M	-	-	-
3.58G	3.72G	200k	620k	RMS	3.5805G	-30.64	-25.00	-5.64	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7475G	-45.39	-40.00	-5.39	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

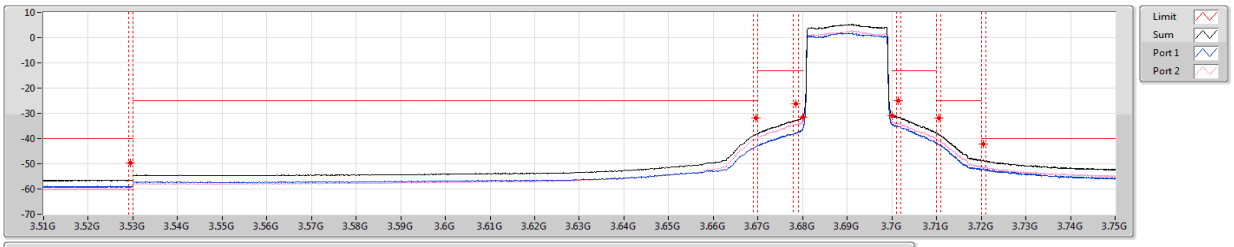
3625MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-49.46	-40.00	-9.46	MBW 1M	-	-	-
3.53G	3.605G	200k	620k	RMS	3.6045G	-31.23	-25.00	-6.23	MBW 1M	-	-	-
3.605G	3.614G	200k	620k	RMS	3.6135G	-25.76	-13.00	-12.76	MBW 1M	-	-	-
3.614G	3.615G	200k	620k	RMS	3.615G	-31.02	-13.00	-18.02	-	-	-34.06	-34.00
3.635G	3.636G	200k	620k	RMS	3.63501G	-30.52	-13.00	-17.52	-	-	-33.52	-33.55
3.636G	3.645G	200k	620k	RMS	3.6365G	-24.45	-13.00	-11.45	MBW 1M	-	-	-
3.645G	3.72G	200k	620k	RMS	3.6455G	-30.73	-25.00	-5.73	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7495G	-45.48	-40.00	-5.48	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

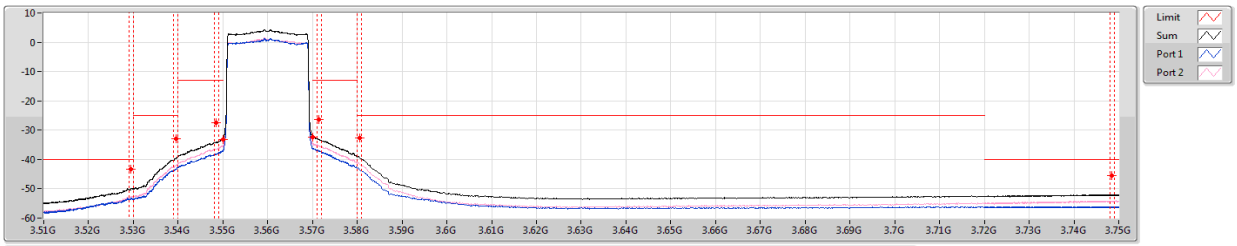
3690MHz_16QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-49.82	-40.00	-9.82	MBW 1M	-	-	-
3.53G	3.67G	200k	620k	RMS	3.6695G	-31.73	-25.00	-6.73	MBW 1M	-	-	-
3.67G	3.679G	200k	620k	RMS	3.6785G	-26.12	-13.00	-13.12	MBW 1M	-	-	-
3.679G	3.68G	200k	620k	RMS	3.68G	-31.58	-13.00	-18.58	-	-	-36.26	-33.39
3.7G	3.701G	200k	620k	RMS	3.70001G	-30.84	-13.00	-17.84	-	-	-34.37	-33.38
3.701G	3.71G	200k	620k	RMS	3.7015G	-24.94	-13.00	-11.94	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-31.75	-25.00	-6.75	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-42.08	-40.00	-2.08	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

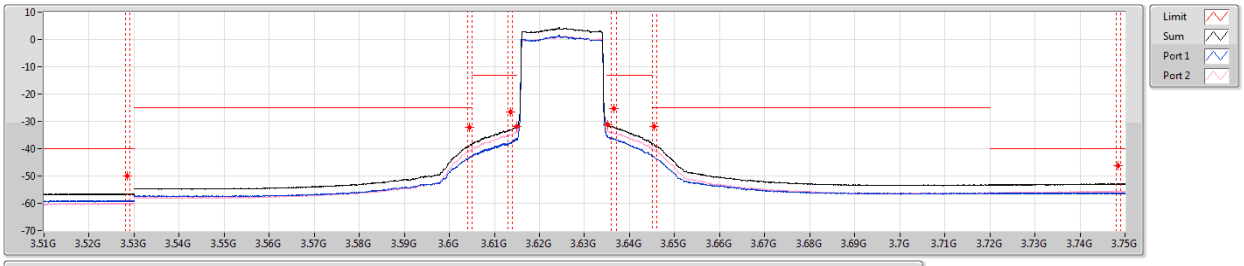
3560MHz_64QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-43.43	-40.00	-3.43	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-32.90	-25.00	-7.90	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.47	-13.00	-14.47	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-33.16	-13.00	-20.16	-	-	-37.07	-35.42
3.57G	3.571G	200k	620k	RMS	3.57007G	-32.28	-13.00	-19.28	-	-	-36.14	-34.58
3.571G	3.58G	200k	620k	RMS	3.5715G	-26.44	-13.00	-13.44	MBW 1M	-	-	-
3.58G	3.72G	200k	620k	RMS	3.5805G	-32.64	-25.00	-7.64	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7485G	-45.43	-40.00	-5.43	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

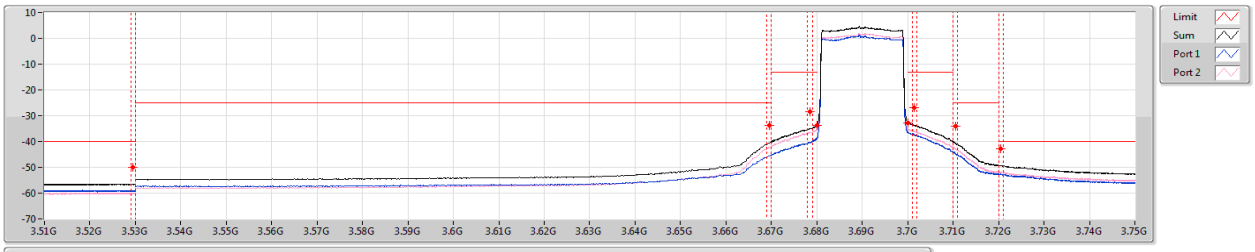
3625MHz_64QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5285G	-49.93	-40.00	-9.93	MBW 1M	-	-	-
3.53G	3.605G	200k	620k	RMS	3.6045G	-32.13	-25.00	-7.13	MBW 1M	-	-	-
3.605G	3.614G	200k	620k	RMS	3.6135G	-26.46	-13.00	-13.46	MBW 1M	-	-	-
3.614G	3.615G	200k	620k	RMS	3.61491G	-31.85	-13.00	-18.85	-	-	-36.26	-33.80
3.635G	3.636G	200k	620k	RMS	3.63513G	-31.38	-13.00	-18.38	-	-	-35.45	-33.54
3.636G	3.645G	200k	620k	RMS	3.6365G	-25.41	-13.00	-12.41	MBW 1M	-	-	-
3.645G	3.72G	200k	620k	RMS	3.6455G	-31.92	-25.00	-6.92	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7485G	-46.26	-40.00	-6.26	MBW 1M	-	-	-

Band 48_LTE_20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

3690MHz_64QAM_RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-49.86	-40.00	-9.86	MBW 1M	-	-	-
3.53G	3.67G	200k	620k	RMS	3.6695G	-33.90	-25.00	-8.90	MBW 1M	-	-	-
3.67G	3.679G	200k	620k	RMS	3.6785G	-28.35	-13.00	-15.35	MBW 1M	-	-	-
3.679G	3.68G	200k	620k	RMS	3.67999G	-33.86	-13.00	-20.86	-	-	-38.80	-35.54
3.7G	3.701G	200k	620k	RMS	3.70003G	-32.72	-13.00	-19.72	-	-	-36.47	-35.10
3.701G	3.71G	200k	620k	RMS	3.7015G	-26.96	-13.00	-13.96	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-33.94	-25.00	-8.94	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-42.66	-40.00	-2.66	MBW 1M	-	-	-

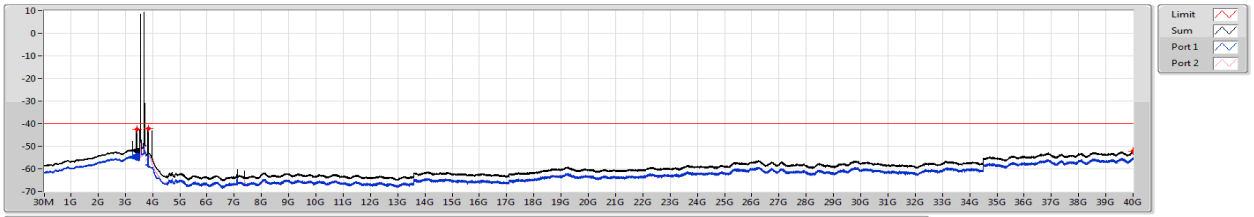
3.3.5 Test Result of Conducted Emissions & Band Edge (CA Mode)

Conducted Emissions
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.83513G	-42.04	-40.00	-2.04	-	-
LTE_10MHz+10MHz_Nss1,16QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.83513G	-42.09	-40.00	-2.09	-	-
LTE_10MHz+10MHz_Nss1,64QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.83513G	-42.06	-40.00	-2.06	-	-
LTE_10MHz+20MHz_Nss1,QPSK_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.82538G	-42.79	-40.00	-2.79	-	-
LTE_10MHz+20MHz_Nss1,16QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.825G	-42.73	-40.00	-2.73	-	-
LTE_10MHz+20MHz_Nss1,64QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.825G	-42.72	-40.00	-2.72	-	-
LTE_20MHz+10MHz_Nss1,QPSK_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.96525G	-43.10	-40.00	-3.10	-	-
LTE_20MHz+10MHz_Nss1,16QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.42518G	-42.72	-40.00	-2.72	-	-
LTE_20MHz+10MHz_Nss1,64QAM_2TX	Pass	30M	3.51G	1M	3M	RMS	3.42474G	-43.02	-40.00	-3.02	-	-
LTE_20MHz+20MHz_Nss1,QPSK_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.81975G	-43.84	-40.00	-3.84	-	-
LTE_20MHz+20MHz_Nss1,16QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.8205G	-43.86	-40.00	-3.86	-	-
LTE_20MHz+20MHz_Nss1,64QAM_2TX	Pass	3.75G	4.5G	1M	3M	RMS	3.82013G	-44.42	-40.00	-4.42	-	-

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

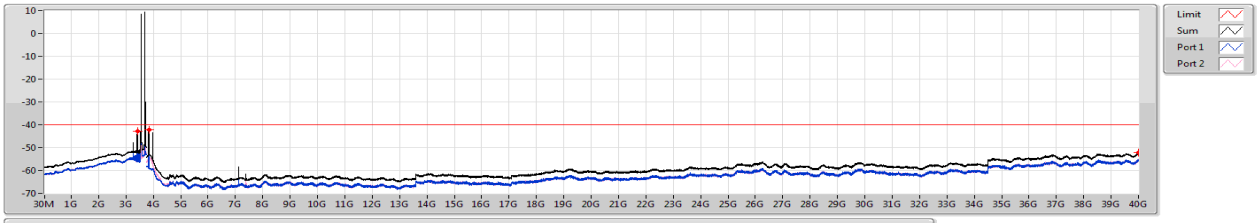
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41474G	-42.56	-40.00	-2.56	-	-	-56.04	-42.76
3.75G	4.5G	1M	3M	RMS	3.83513G	-42.04	-40.00	-2.04	-	-	-44.76	-45.36
4.5G	40G	1M	3M	RMS	40G	-52.13	-40.00	-12.13	-	-	-55.07	-55.22

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

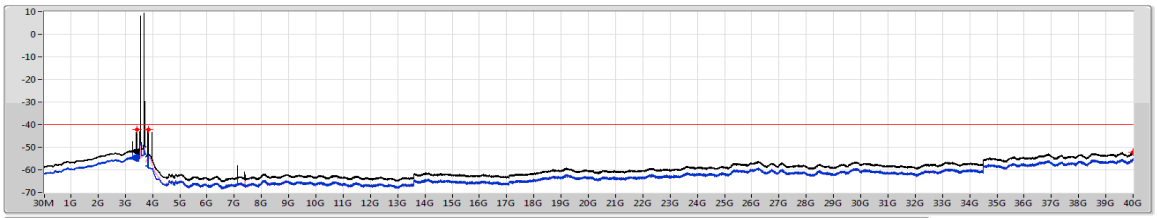
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41604G	-42.78	-40.00	-2.78	-	-	-56.13	-42.99
3.75G	4.5G	1M	3M	RMS	3.83513G	-42.09	-40.00	-2.09	-	-	-45.05	-45.16
4.5G	40G	1M	3M	RMS	39.99445G	-52.23	-40.00	-12.23	-	-	-55.33	-55.16

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

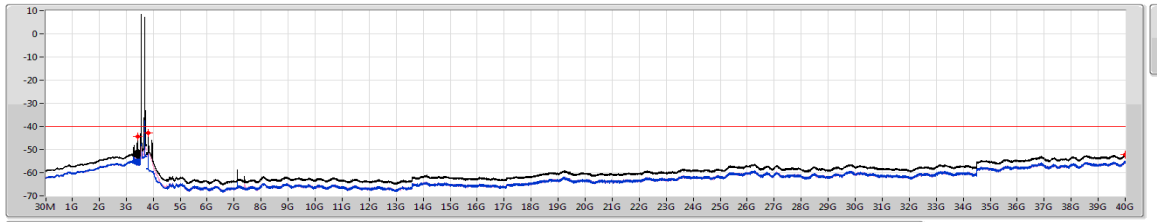
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41604G	-42.09	-40.00	-2.09	-	-	-50.46	-42.77
3.75G	4.5G	1M	3M	RMS	3.83513G	-42.06	-40.00	-2.06	-	-	-44.99	-45.16
4.5G	40G	1M	3M	RMS	39.99445G	-52.21	-40.00	-12.21	-	-	-55.44	-55.01

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

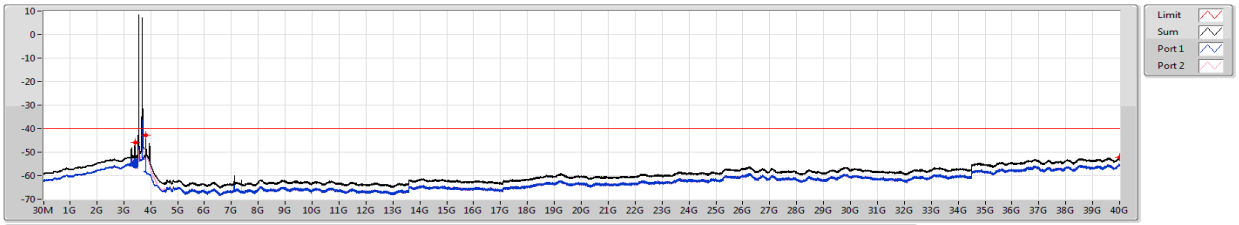
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41735G	-44.36	-40.00	-4.36	-	-	-50.32	-45.63
3.75G	4.5G	1M	3M	RMS	3.82538G	-42.79	-40.00	-2.79	-	-	-44.21	-48.34
4.5G	40G	1M	3M	RMS	39.99556G	-52.21	-40.00	-12.21	-	-	-55.12	-55.33

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

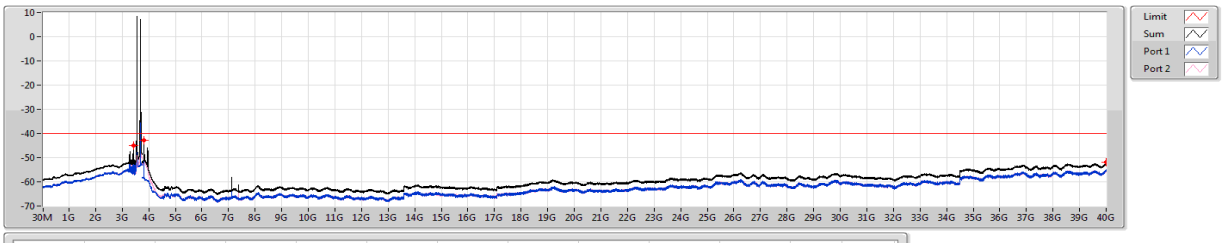
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41865G	-45.97	-40.00	-5.97	-	-	-56.48	-46.37
3.75G	4.5G	1M	3M	RMS	3.825G	-42.73	-40.00	-2.73	-	-	-44.06	-48.52
4.5G	40G	1M	3M	RMS	39.99556G	-52.22	-40.00	-12.22	-	-	-55.29	-55.18

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

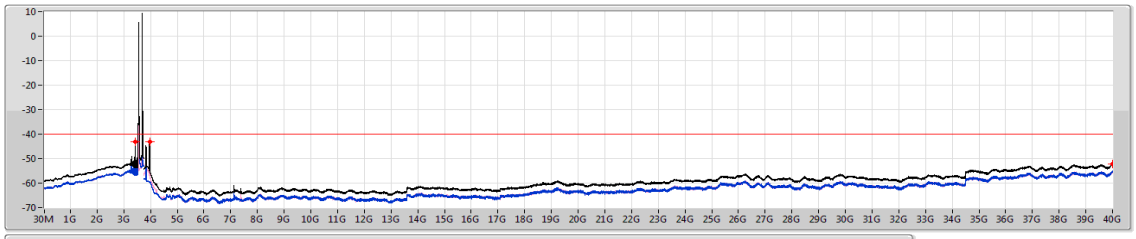
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.41952G	-44.91	-40.00	-4.91	-	-	-54.19	-45.45
3.75G	4.5G	1M	3M	RMS	3.825G	-42.72	-40.00	-2.72	-	-	-43.97	-48.73
4.5G	40G	1M	3M	RMS	39.99778G	-52.01	-40.00	-12.01	-	-	-55.04	-55.01

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

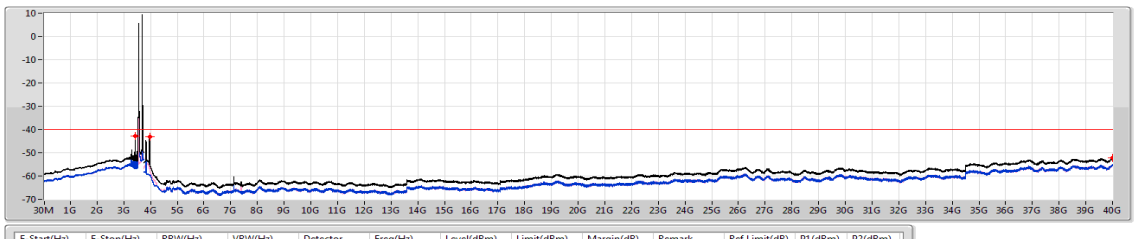
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42518G	-43.27	-40.00	-3.27	-	-	-50.76	-44.12
3.75G	4.5G	1M	3M	RMS	3.96525G	-43.10	-40.00	-3.10	-	-	-59.48	-43.20
4.5G	40G	1M	3M	RMS	39.99113G	-52.17	-40.00	-12.17	-	-	-55.14	-55.23

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

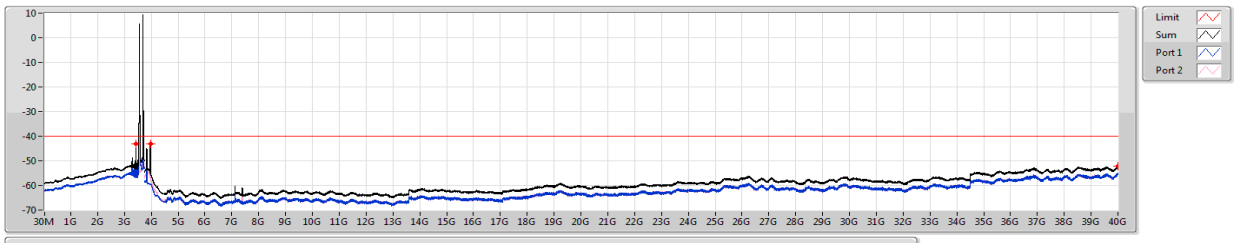
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42518G	-42.72	-40.00	-2.72	-	-	-52.55	-43.20
3.75G	4.5G	1M	3M	RMS	3.96525G	-43.21	-40.00	-3.21	-	-	-59.63	-43.31
4.5G	40G	1M	3M	RMS	39.99778G	-52.20	-40.00	-12.20	-	-	-54.91	-55.54

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

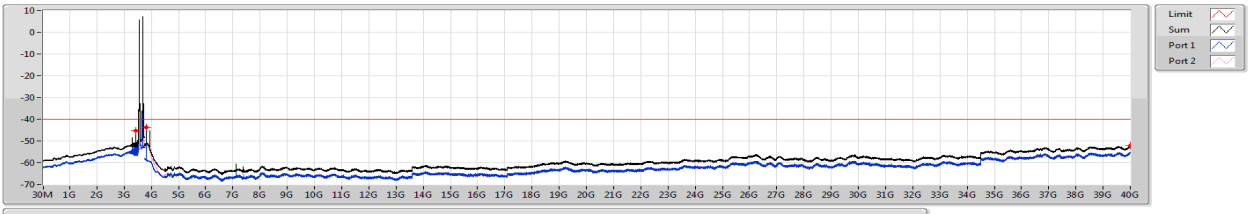
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42474G	-43.02	-40.00	-3.02	-	-	-55.37	-43.28
3.75G	4.5G	1M	3M	RMS	3.96488G	-43.22	-40.00	-3.22	-	-	-59.58	-43.32
4.5G	40G	1M	3M	RMS	39.99334G	-52.12	-40.00	-12.12	-	-	-55.01	-55.26

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

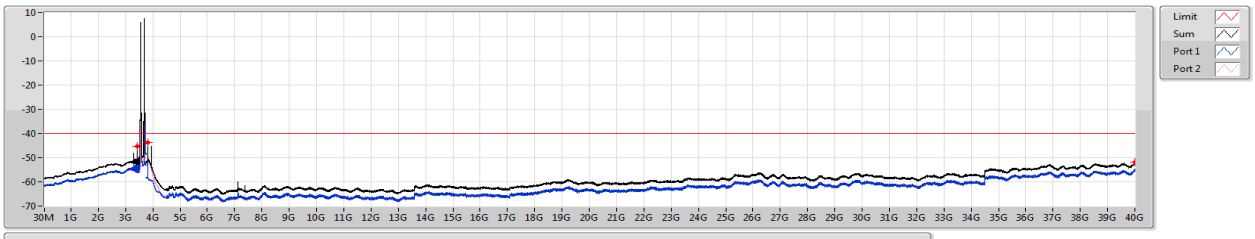
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43127G	-45.16	-40.00	-5.16	-	-	-52.97	-45.95
3.75G	4.5G	1M	3M	RMS	3.81975G	-43.84	-40.00	-3.84	-	-	-47.18	-46.54
4.5G	40G	1M	3M	RMS	39.9878G	-52.14	-40.00	-12.14	-	-	-55.28	-55.02

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

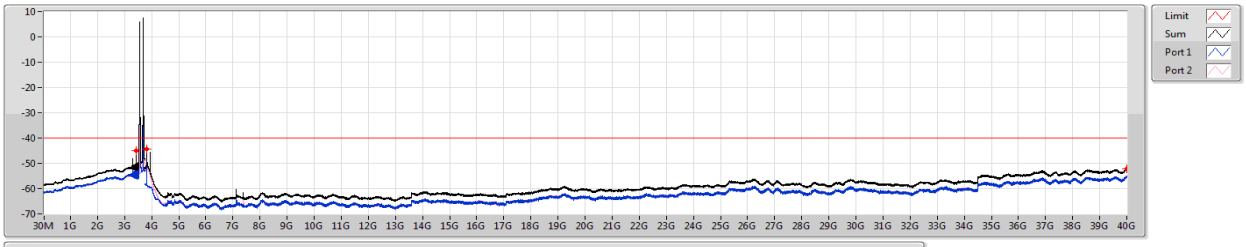
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.42909G	-45.16	-40.00	-5.16	-	-	-51.20	-46.40
3.75G	4.5G	1M	3M	RMS	3.8205G	-43.86	-40.00	-3.86	-	-	-47.28	-46.49
4.5G	40G	1M	3M	RMS	39.99002G	-51.99	-40.00	-11.99	-	-	-54.98	-55.03

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

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



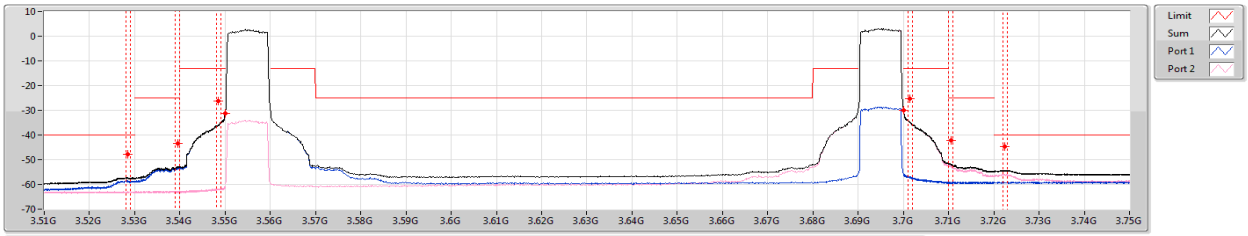
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
30M	3.51G	1M	3M	RMS	3.43127G	-45.15	-40.00	-5.15	-	-	-52.77	-45.98
3.75G	4.5G	1M	3M	RMS	3.82013G	-44.42	-40.00	-4.42	-	-	-46.52	-48.58
4.5G	40G	1M	3M	RMS	40G	-52.10	-40.00	-12.10	-	-	-55.00	-55.23

Band Edge
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 48	-	-	-	-	-	-	-	-	-	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7225G	-44.74	-40.00	-4.74	MBW 1M	-
LTE_10MHz+10MHz_Nss1,16QAM_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7205G	-45.14	-40.00	-5.14	MBW 1M	-
LTE_10MHz+10MHz_Nss1,64QAM_2TX	Pass	3.72G	3.75G	100k	300k	RMS	3.7205G	-45.15	-40.00	-5.15	MBW 1M	-
LTE_10MHz+20MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-42.01	-40.00	-2.01	MBW 1M	-
LTE_10MHz+20MHz_Nss1,16QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-40.97	-40.00	-0.97	MBW 1M	-
LTE_10MHz+20MHz_Nss1,64QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-40.84	-40.00	-0.84	MBW 1M	-
LTE_20MHz+10MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7225G	-44.82	-40.00	-4.82	MBW 1M	-
LTE_20MHz+10MHz_Nss1,16QAM_2TX	Pass	3.51G	3.53G	200k	620k	RMS	3.5295G	-44.86	-40.00	-4.86	MBW 1M	-
LTE_20MHz+10MHz_Nss1,64QAM_2TX	Pass	3.51G	3.53G	200k	620k	RMS	3.5295G	-44.67	-40.00	-4.67	MBW 1M	-
LTE_20MHz+20MHz_Nss1,QPSK_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-42.02	-40.00	-2.02	MBW 1M	-
LTE_20MHz+20MHz_Nss1,16QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-41.22	-40.00	-1.22	MBW 1M	-
LTE_20MHz+20MHz_Nss1,64QAM_2TX	Pass	3.72G	3.75G	200k	620k	RMS	3.7205G	-41.06	-40.00	-1.06	MBW 1M	-

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

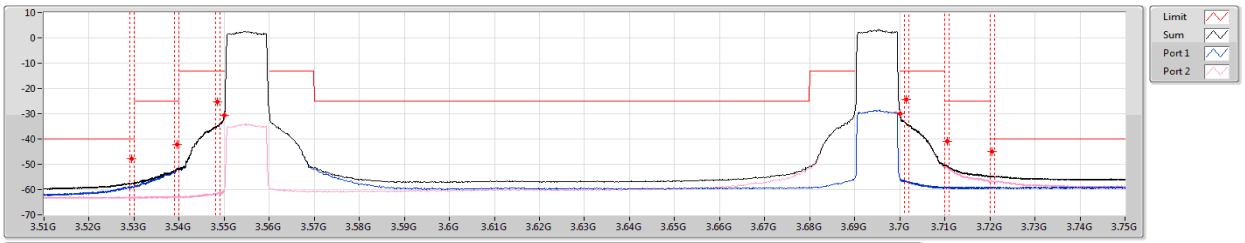
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5285G	-47.74	-40.00	-7.74	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-43.37	-25.00	-18.37	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-26.15	-13.00	-13.15	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-31.16	-13.00	-18.16	-	-	-31.16	-61.08
3.7G	3.701G	100k	300k	RMS	3.7G	-30.02	-13.00	-17.02	-	-	-55.94	-30.03
3.701G	3.71G	100k	300k	RMS	3.7015G	-25.27	-13.00	-12.27	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-42.22	-25.00	-17.22	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7225G	-44.74	-40.00	-4.74	MBW 1M	-	-	-

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

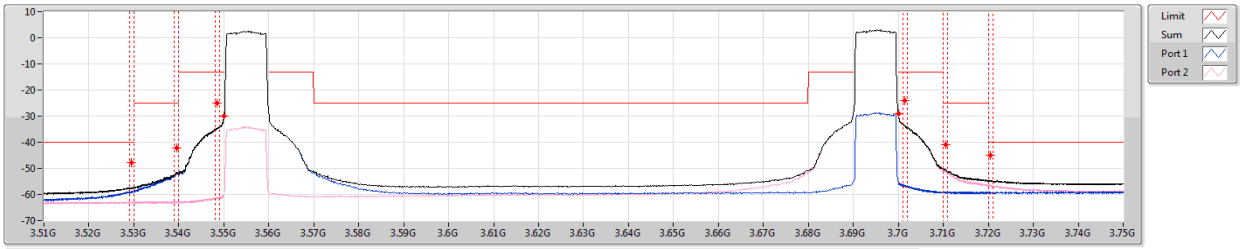
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-47.91	-40.00	-7.91	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-42.24	-25.00	-17.24	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-25.19	-13.00	-12.19	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-30.60	-13.00	-17.60	-	-	-30.60	-60.64
3.7G	3.701G	100k	300k	RMS	3.7G	-29.89	-13.00	-16.89	-	-	-55.63	-29.90
3.701G	3.71G	100k	300k	RMS	3.7015G	-24.25	-13.00	-11.25	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-40.98	-25.00	-15.98	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-45.14	-40.00	-5.14	MBW 1M	-	-	-

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

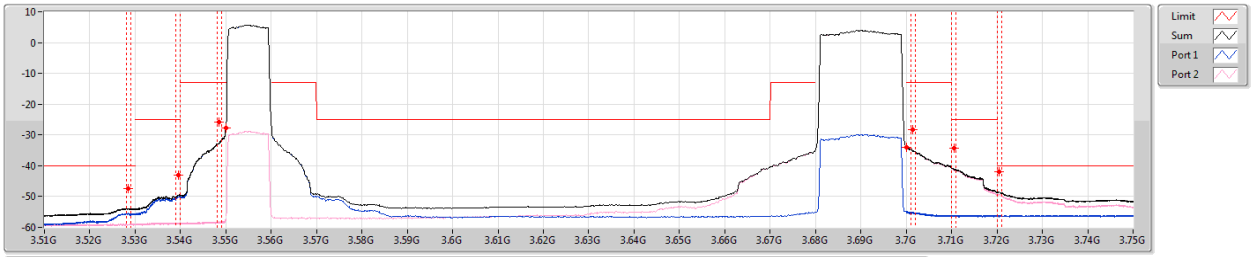
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	100k	300k	RMS	3.5295G	-47.84	-40.00	-7.84	MBW 1M	-	-	-
3.53G	3.54G	100k	300k	RMS	3.5395G	-42.22	-25.00	-17.22	MBW 1M	-	-	-
3.54G	3.549G	100k	300k	RMS	3.5485G	-25.06	-13.00	-12.06	MBW 1M	-	-	-
3.549G	3.55G	100k	300k	RMS	3.55G	-30.11	-13.00	-17.11	-	-	-30.11	-60.40
3.7G	3.701G	100k	300k	RMS	3.7G	-29.04	-13.00	-16.04	-	-	-55.26	-29.05
3.701G	3.71G	100k	300k	RMS	3.7015G	-23.99	-13.00	-10.99	MBW 1M	-	-	-
3.71G	3.72G	100k	300k	RMS	3.7105G	-40.98	-25.00	-15.98	MBW 1M	-	-	-
3.72G	3.75G	100k	300k	RMS	3.7205G	-45.15	-40.00	-5.15	MBW 1M	-	-	-

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

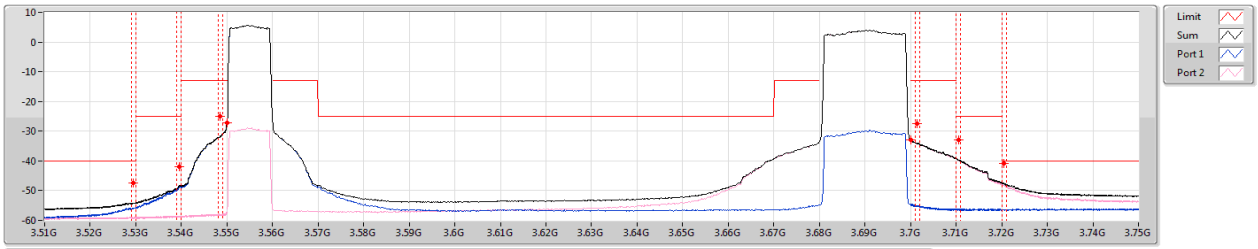
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5285G	-47.36	-40.00	-7.36	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-42.98	-25.00	-17.98	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-25.85	-13.00	-12.85	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-27.64	-13.00	-14.64	-	-	-27.64	-57.47
3.7G	3.701G	200k	620k	RMS	3.7G	-34.07	-13.00	-21.07	-	-	-54.94	-34.11
3.701G	3.71G	200k	620k	RMS	3.7015G	-28.37	-13.00	-15.37	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-34.40	-25.00	-9.40	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-42.01	-40.00	-2.01	MBW 1M	-	-	-

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

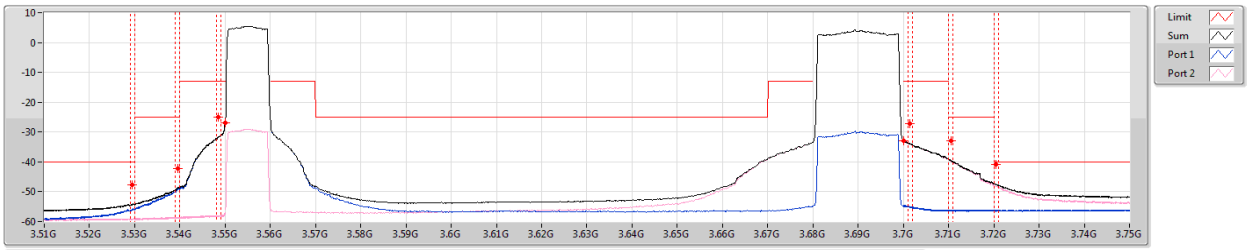
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-47.55	-40.00	-7.55	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-41.97	-25.00	-16.97	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-25.01	-13.00	-12.01	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-27.15	-13.00	-14.15	-	-	-27.15	-57.45
3.7G	3.701G	200k	620k	RMS	3.70002G	-33.01	-13.00	-20.01	-	-	-54.83	-33.04
3.701G	3.71G	200k	620k	RMS	3.7015G	-27.38	-13.00	-14.38	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-32.94	-25.00	-7.94	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-40.97	-40.00	-0.97	MBW 1M	-	-	-

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

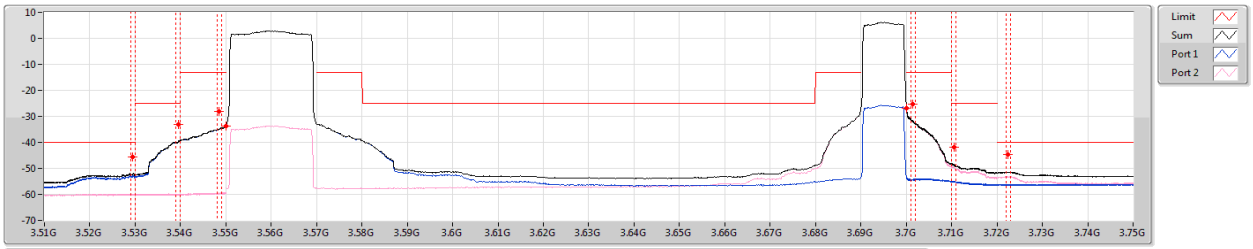
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-47.62	-40.00	-7.62	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-42.13	-25.00	-17.13	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-25.06	-13.00	-12.06	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-26.98	-13.00	-13.98	-	-	-26.98	-57.09
3.7G	3.701G	200k	620k	RMS	3.70008G	-32.93	-13.00	-19.93	-	-	-54.93	-32.96
3.701G	3.71G	200k	620k	RMS	3.7015G	-27.21	-13.00	-14.21	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-32.85	-25.00	-7.85	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-40.84	-40.00	-0.84	MBW 1M	-	-	-

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

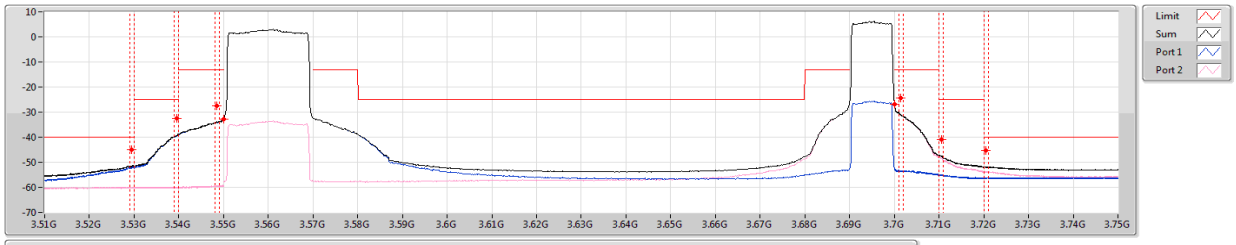
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-45.63	-40.00	-5.63	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-33.01	-25.00	-8.01	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-28.13	-13.00	-15.13	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-33.81	-13.00	-20.81	-	-	-33.82	-59.51
3.7G	3.701G	200k	620k	RMS	3.7G	-26.78	-13.00	-13.78	-	-	-53.39	-26.79
3.701G	3.71G	200k	620k	RMS	3.7015G	-25.37	-13.00	-12.37	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-41.99	-25.00	-16.99	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7225G	-44.82	-40.00	-4.82	MBW 1M	-	-	-

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

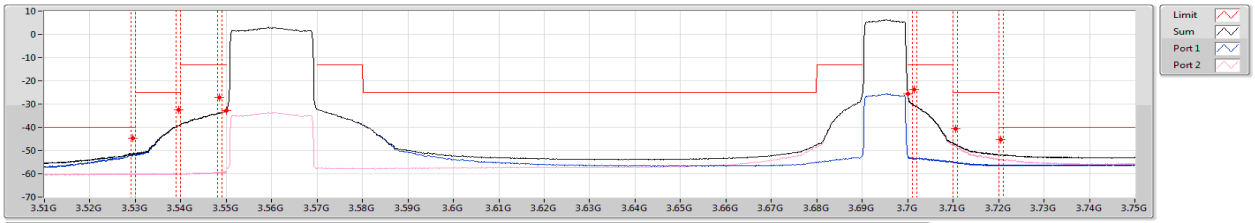
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-44.86	-40.00	-4.86	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-32.60	-25.00	-7.60	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.37	-13.00	-14.37	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54997G	-32.94	-13.00	-19.94	-	-	-32.95	-59.46
3.7G	3.701G	200k	620k	RMS	3.7G	-26.74	-13.00	-13.74	-	-	-52.82	-26.75
3.701G	3.71G	200k	620k	RMS	3.7015G	-24.38	-13.00	-11.38	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-40.88	-25.00	-15.88	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-45.23	-40.00	-5.23	MBW 1M	-	-	-

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

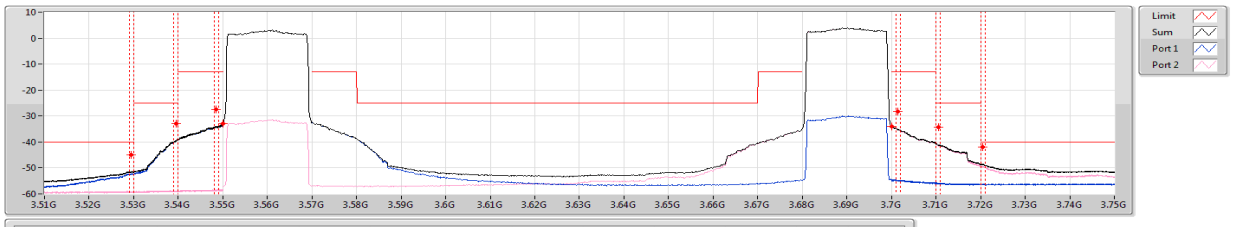
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-44.67	-40.00	-4.67	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-32.55	-25.00	-7.55	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.18	-13.00	-14.18	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-32.94	-13.00	-19.94	-	-	-32.95	-59.38
3.7G	3.701G	200k	620k	RMS	3.7G	-25.73	-13.00	-12.73	-	-	-52.36	-25.74
3.701G	3.71G	200k	620k	RMS	3.7015G	-23.84	-13.00	-10.84	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-40.69	-25.00	-15.69	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-45.20	-40.00	-5.20	MBW 1M	-	-	-

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **CSE-TX-Sum**

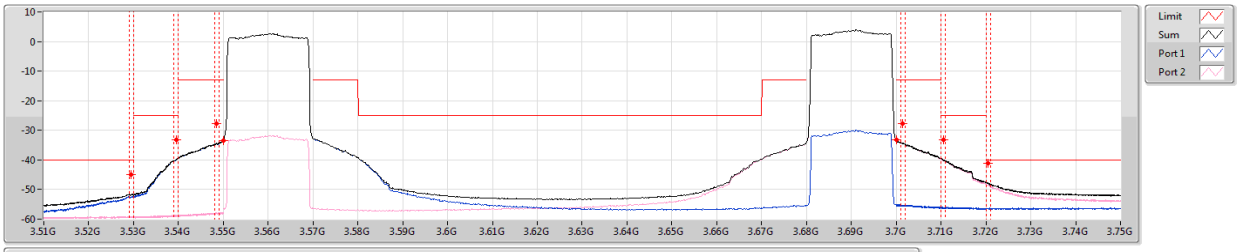
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-44.87	-40.00	-4.87	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-32.80	-25.00	-7.80	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.47	-13.00	-14.47	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.55G	-32.93	-13.00	-19.93	-	-	-32.94	-58.63
3.7G	3.701G	200k	620k	RMS	3.70004G	-34.10	-13.00	-21.10	-	-	-54.83	-34.14
3.701G	3.71G	200k	620k	RMS	3.7015G	-28.40	-13.00	-15.40	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-34.38	-25.00	-9.38	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-42.02	-40.00	-2.02	MBW 1M	-	-	-

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **CSE-TX-Sum**

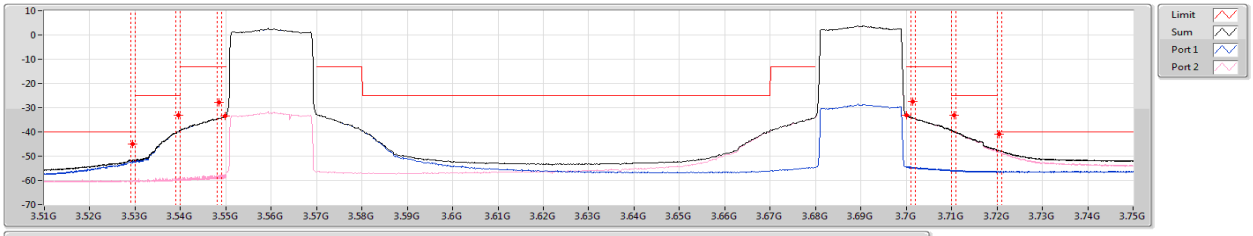
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-45.03	-40.00	-5.03	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-33.11	-25.00	-8.11	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.85	-13.00	-14.85	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54999G	-33.42	-13.00	-20.42	-	-	-33.43	-58.04
3.7G	3.701G	200k	620k	RMS	3.70001G	-33.31	-13.00	-20.31	-	-	-55.18	-33.34
3.701G	3.71G	200k	620k	RMS	3.7015G	-27.68	-13.00	-14.68	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-33.30	-25.00	-8.30	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-41.22	-40.00	-1.22	MBW 1M	-	-	-

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **CSE-TX-Sum**

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



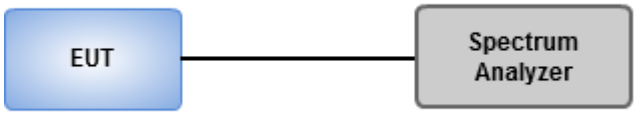
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)	P1(dBm)	P2(dBm)
3.51G	3.53G	200k	620k	RMS	3.5295G	-45.09	-40.00	-5.09	MBW 1M	-	-	-
3.53G	3.54G	200k	620k	RMS	3.5395G	-33.15	-25.00	-8.15	MBW 1M	-	-	-
3.54G	3.549G	200k	620k	RMS	3.5485G	-27.75	-13.00	-14.75	MBW 1M	-	-	-
3.549G	3.55G	200k	620k	RMS	3.54993G	-33.52	-13.00	-20.52	-	-	-33.54	-57.81
3.7G	3.701G	200k	620k	RMS	3.70002G	-33.22	-13.00	-20.22	-	-	-54.48	-33.25
3.701G	3.71G	200k	620k	RMS	3.7015G	-27.51	-13.00	-14.51	MBW 1M	-	-	-
3.71G	3.72G	200k	620k	RMS	3.7105G	-33.12	-25.00	-8.12	MBW 1M	-	-	-
3.72G	3.75G	200k	620k	RMS	3.7205G	-41.06	-40.00	-1.06	MBW 1M	-	-	-

3.4 Emission Bandwidth

3.4.1 Test Procedures

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

3.4.2 Test Setup



Ambient Condition	18-22°C / 64-66%	**Tested By**	Aska Huang

3.4.3 Test Result of Occupied Bandwidth (CDD Mode)

Single-carrier
Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 48	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	9.738M	8.927M	8M93G7D	9.613M	8.909M
LTE_10MHz_Nss1,16QAM_2TX	9.913M	8.925M	8M93W7D	9.688M	8.912M
LTE_10MHz_Nss1,64QAM_2TX	9.863M	8.933M	8M93W7D	9.738M	8.922M
LTE_20MHz_Nss1,QPSK_2TX	19.025M	17.834M	17M8G7D	18.8M	17.811M
LTE_20MHz_Nss1,16QAM_2TX	19M	17.834M	17M8W7D	18.75M	17.787M
LTE_20MHz_Nss1,64QAM_2TX	19M	17.844M	17M8W7D	18.825M	17.805M

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

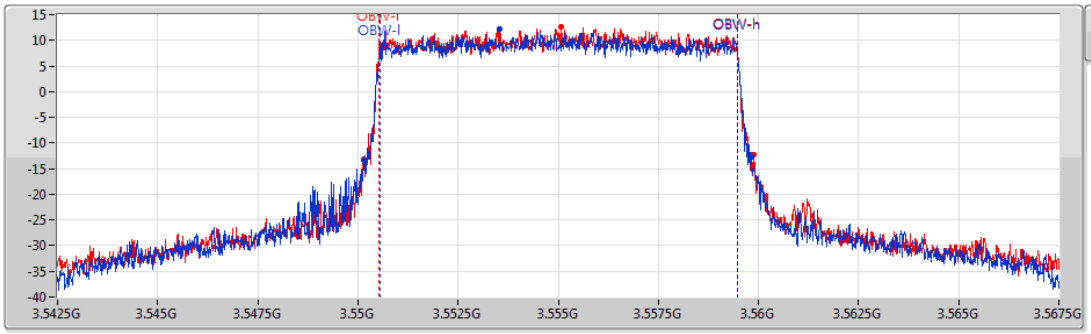
Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.688M	8.922M	9.738M	8.927M
3625MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.7M	8.917M	9.638M	8.917M
3695MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.638M	8.909M	9.613M	8.919M
3555MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.913M	8.921M	9.813M	8.921M
3625MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.788M	8.917M	9.813M	8.921M
3695MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.688M	8.912M	9.8M	8.925M
3555MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.863M	8.929M	9.775M	8.927M
3625MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.825M	8.933M	9.825M	8.93M
3695MHz_64QAM_RB 50,#RB 0	Pass	Inf	9.738M	8.93M	9.813M	8.922M
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	Inf	18.85M	17.811M	18.925M	17.83M
3625MHz_QPSK_RB 100,#RB 0	Pass	Inf	18.85M	17.825M	18.8M	17.818M
3690MHz_QPSK_RB 100,#RB 0	Pass	Inf	19.025M	17.83M	18.85M	17.834M
3560MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.75M	17.813M	18.975M	17.803M
3625MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.825M	17.806M	19M	17.834M
3690MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.85M	17.804M	18.8M	17.787M
3560MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.9M	17.827M	19M	17.825M
3625MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.95M	17.844M	18.825M	17.824M
3690MHz_64QAM_RB 100,#RB 0	Pass	Inf	18.875M	17.84M	18.975M	17.805M

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

Band 48_LTE_10MHz_Nss1,QPSK_2TX **EBW**

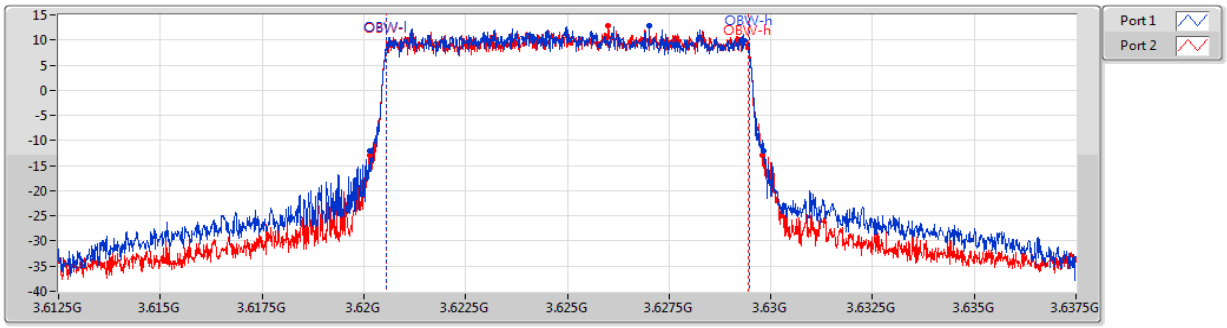
3555MHz_QPSK_RB 50,#RB 0



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)
9.688M	3.550138G	3.559825G	8.922M	3.550545G	3.559467G	1	3.555G	25M	100k	300k
9.738M	3.55015G	3.559888G	8.927M	3.550537G	3.559465G	2	3.555G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,QPSK_2TX **EBW**

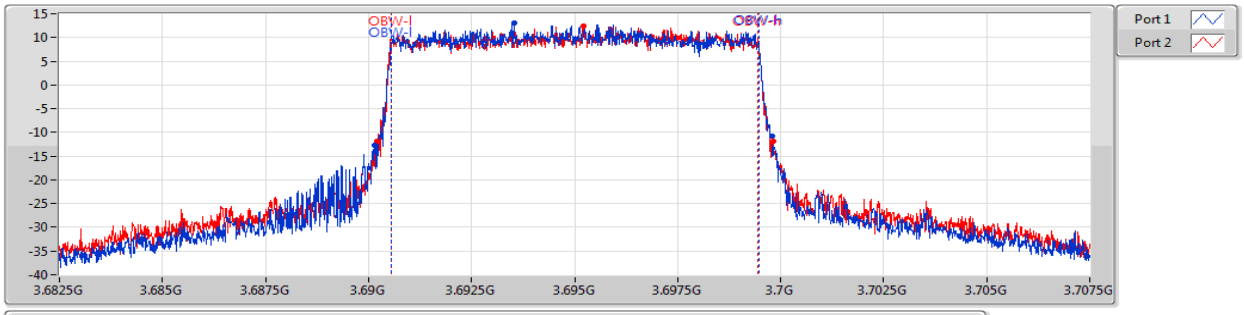
3625MHz_QPSK_RB 50,#RB 0



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)
9.7M	3.620138G	3.629838G	8.917M	3.620545G	3.629462G	1	3.625G	25M	100k	300k
9.638M	3.62015G	3.629788G	8.917M	3.620543G	3.629461G	2	3.625G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,QPSK_2TX **EBW**

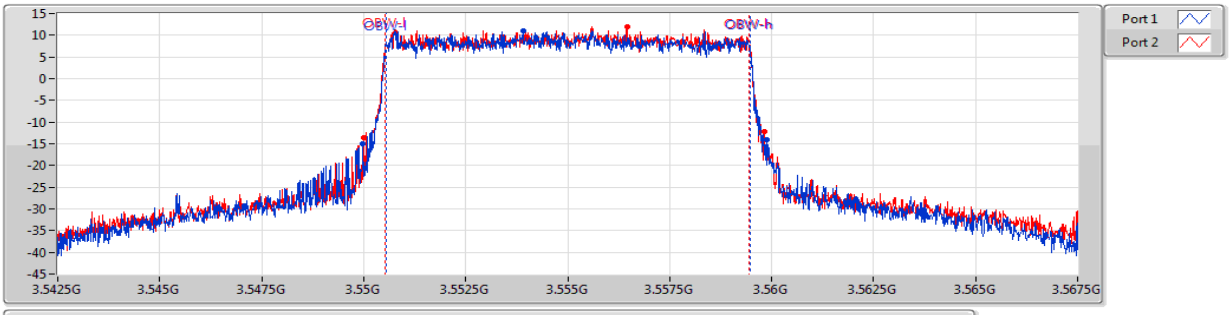
3695MHz_QPSK_RB 50,#RB 0



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)
9.638M	3.69015G	3.699788G	8.909M	3.690555G	3.699464G	1	3.695G	25M	100k	300k
9.613M	3.6902G	3.699813G	8.919M	3.690539G	3.699458G	2	3.695G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,16QAM_2TX **EBW**

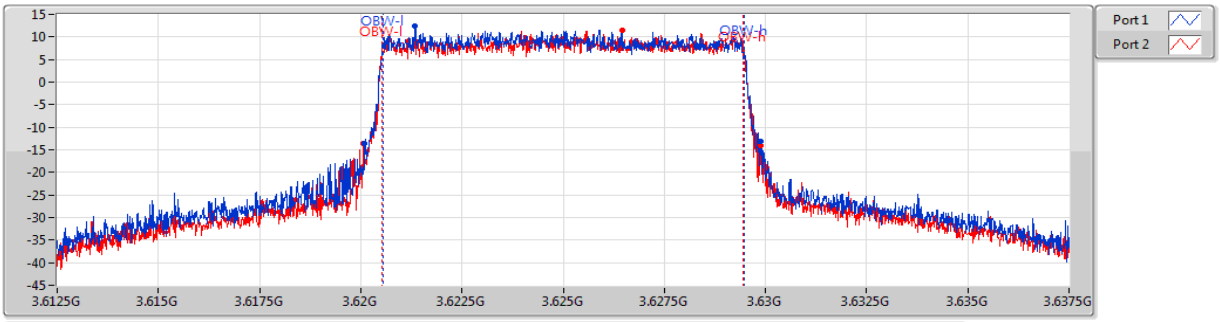
3555MHz_16QAM_RB 50,#RB 0



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)
9.913M	3.549975G	3.559888G	8.921M	3.550542G	3.559462G	1	3.555G	25M	100k	300k
9.813M	3.55G	3.559813G	8.921M	3.550536G	3.559457G	2	3.555G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,16QAM_2TX **EBW**

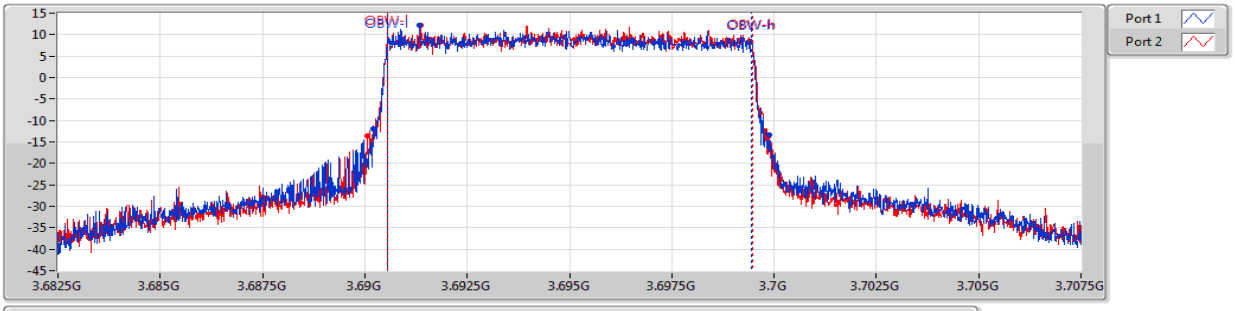
3625MHz_16QAM_RB 50,#RB 0



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)
9.788M	3.6201G	3.629888G	8.917M	3.620545G	3.629462G	1	3.625G	25M	100k	300k
9.813M	3.620063G	3.629875G	8.921M	3.620536G	3.629457G	2	3.625G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,16QAM_2TX **EBW**

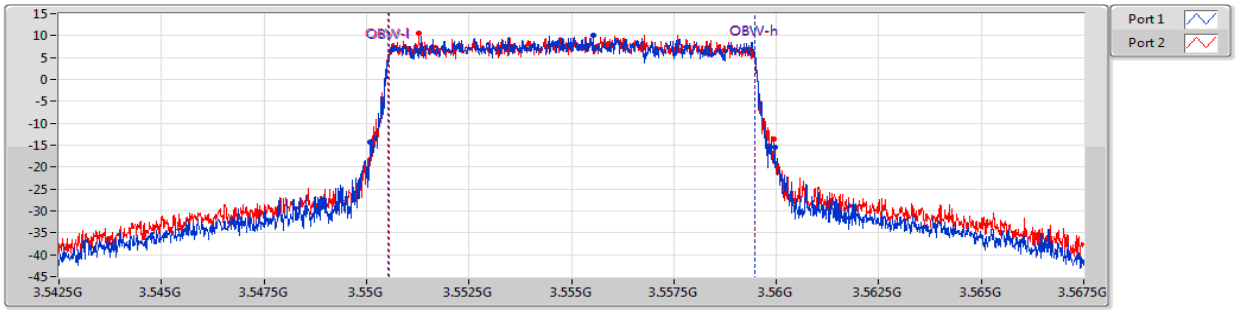
3695MHz_16QAM_RB 50,#RB 0



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)
9.688M	3.6902G	3.699888G	8.912M	3.690547G	3.699459G	1	3.695G	25M	100k	300k
9.8M	3.69005G	3.69985G	8.925M	3.690547G	3.699471G	2	3.695G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,64QAM_2TX **EBW**

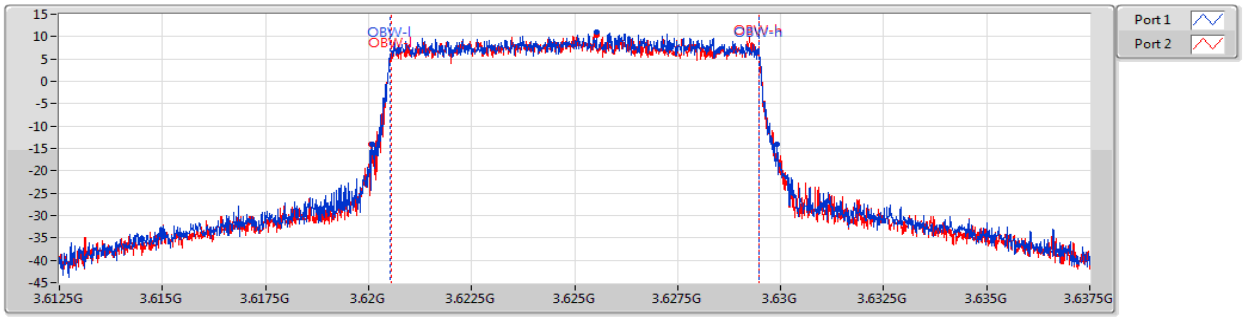
3555MHz_64QAM_RB 50,#RB 0



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)
9.863M	3.5501G	3.559963G	8.929M	3.550542G	3.559472G	1	3.555G	25M	100k	300k
9.775M	3.55015G	3.559925G	8.927M	3.550536G	3.559463G	2	3.555G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,64QAM_2TX **EBW**

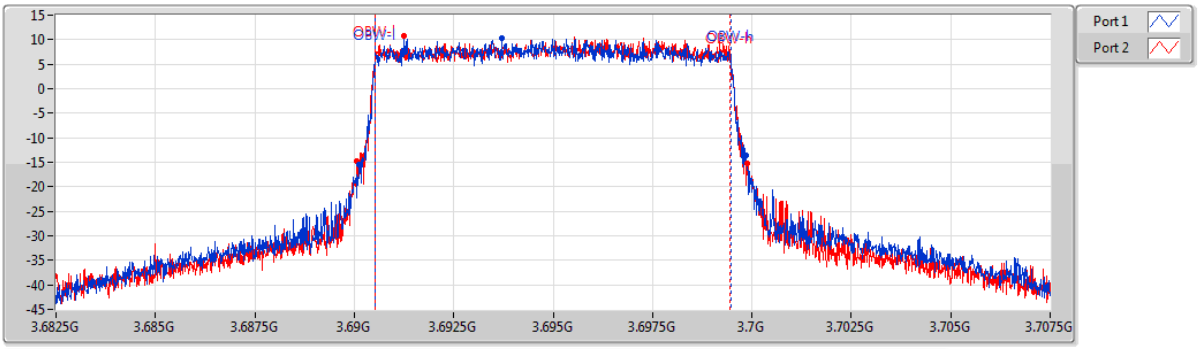
3625MHz_64QAM_RB 50,#RB 0



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)
9.825M	3.620088G	3.629913G	8.933M	3.620536G	3.629469G	1	3.625G	25M	100k	300k
9.825M	3.620075G	3.6299G	8.93M	3.62054G	3.62947G	2	3.625G	25M	100k	300k

Band 48_LTE_10MHz_Nss1,64QAM_2TX **EBW**

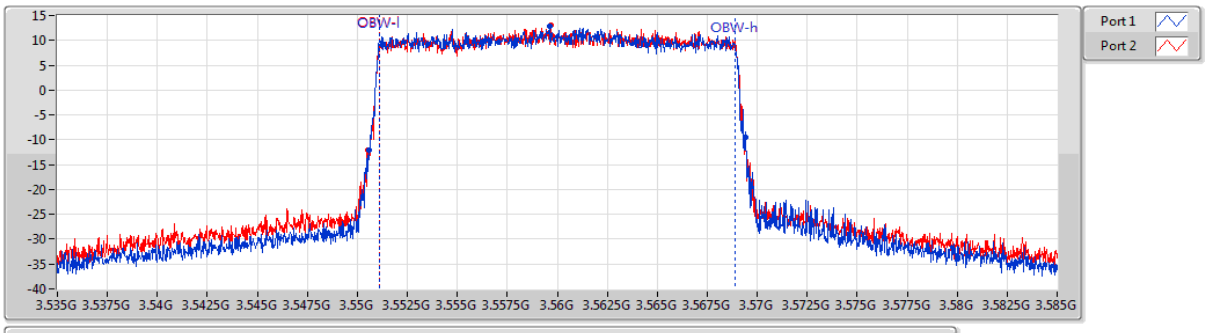
3695MHz_64QAM_RB 50,#RB 0



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)
9.738M	3.690125G	3.699863G	8.93M	3.690538G	3.699468G	1	3.695G	25M	100k	300k
9.813M	3.690063G	3.699875G	8.922M	3.690531G	3.699453G	2	3.695G	25M	100k	300k

Band 48_LTE_20MHz_Nss1,QPSK_2TX **EBW**

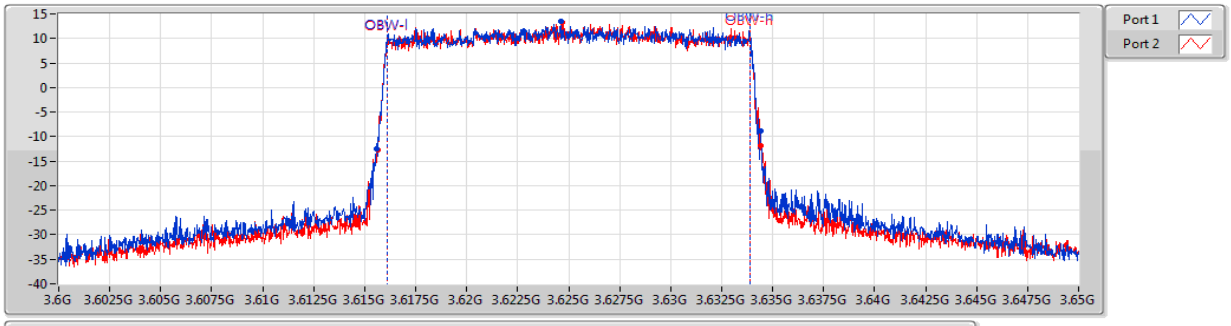
3560MHz_QPSK_RB 100,#RB 0



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)
18.85M	3.550575G	3.569425G	17.811M	3.551094G	3.568904G	1	3.56G	50M	200k	620k
18.925M	3.5505G	3.569425G	17.83M	3.551089G	3.568918G	2	3.56G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,QPSK_2TX **EBW**

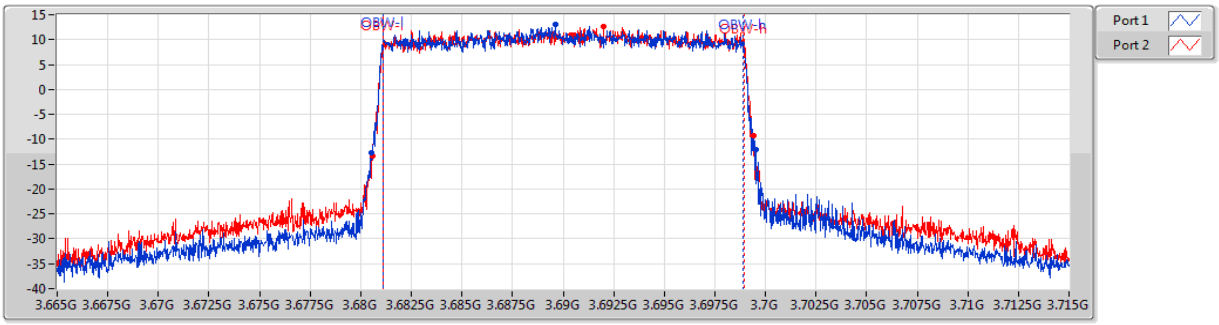
3625MHz_QPSK_RB 100,#RB 0



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)
18.85M	3.615575G	3.634425G	17.825M	3.616092G	3.633917G	1	3.625G	50M	200k	620k
18.8M	3.615625G	3.634425G	17.818M	3.6161G	3.633918G	2	3.625G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,QPSK_2TX **EBW**

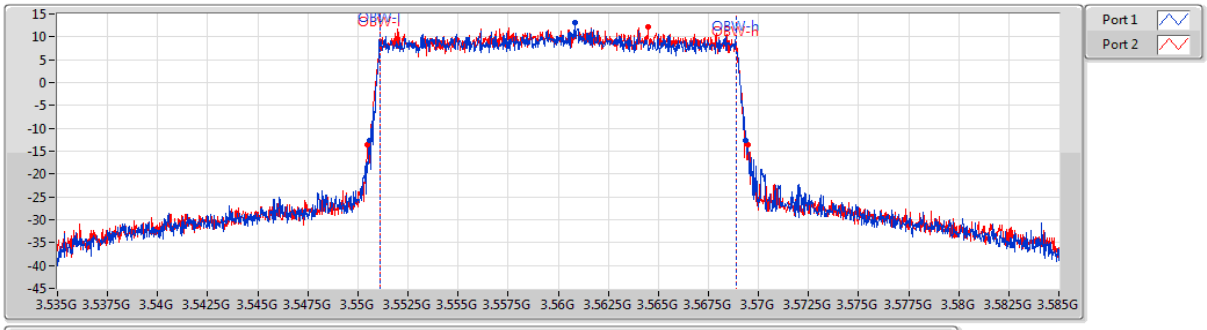
3690MHz_QPSK_RB 100,#RB 0



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)
19.025M	3.6805G	3.699525G	17.83M	3.681083G	3.698912G	1	3.69G	50M	200k	620k
18.85M	3.680575G	3.699425G	17.834M	3.681101G	3.698935G	2	3.69G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,16QAM_2TX **EBW**

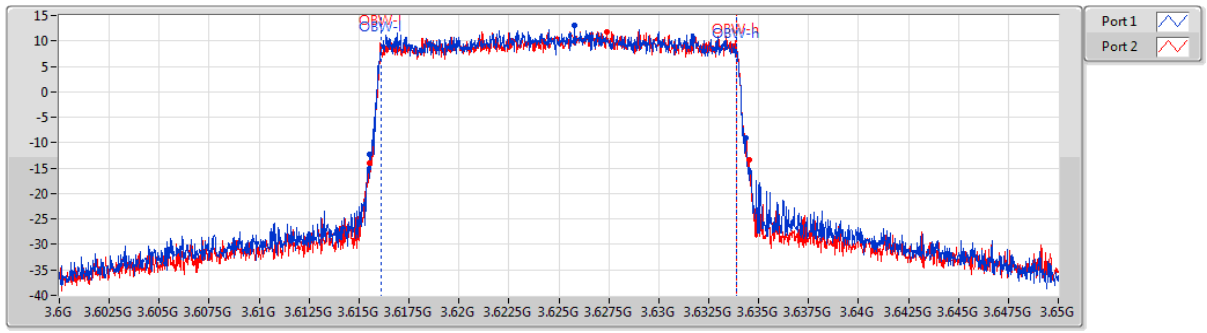
3560MHz_16QAM_RB 100,#RB 0



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)
18.75M	3.5506G	3.56935G	17.813M	3.551092G	3.568904G	1	3.56G	50M	200k	620k
18.975M	3.550475G	3.56945G	17.803M	3.551091G	3.568894G	2	3.56G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,16QAM_2TX **EBW**

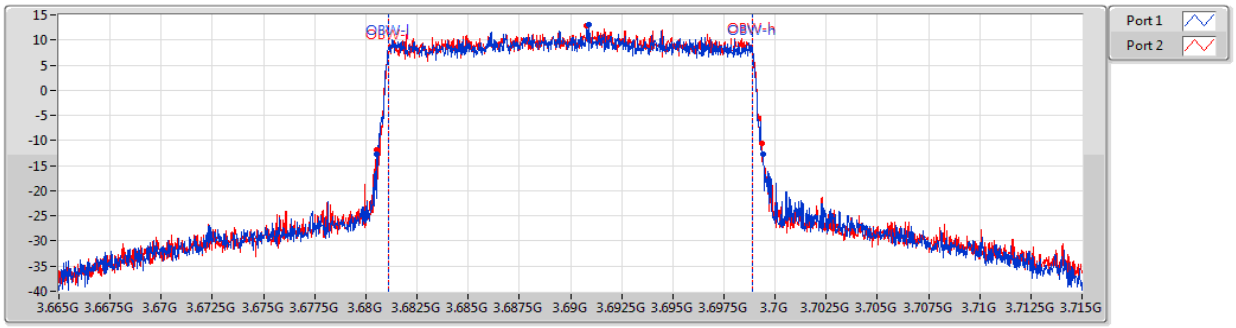
3625MHz_16QAM_RB 100,#RB 0



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)
18.825M	3.61555G	3.634375G	17.806M	3.616092G	3.633897G	1	3.625G	50M	200k	620k
19M	3.615525G	3.634525G	17.834M	3.616081G	3.633915G	2	3.625G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,16QAM_2TX **EBW**

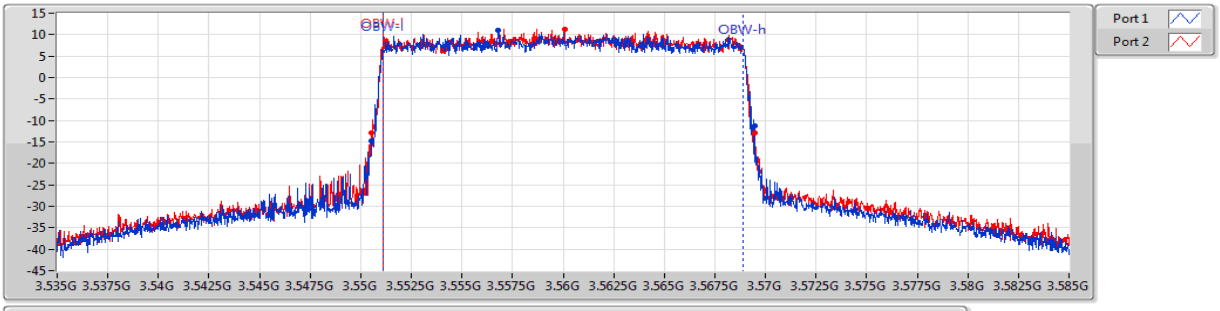
3690MHz_16QAM_RB 100,#RB 0



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)
18.85M	3.68055G	3.6994G	17.804M	3.681094G	3.698899G	1	3.69G	50M	200k	620k
18.8M	3.68055G	3.69935G	17.787M	3.681113G	3.6989G	2	3.69G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,64QAM_2TX **EBW**

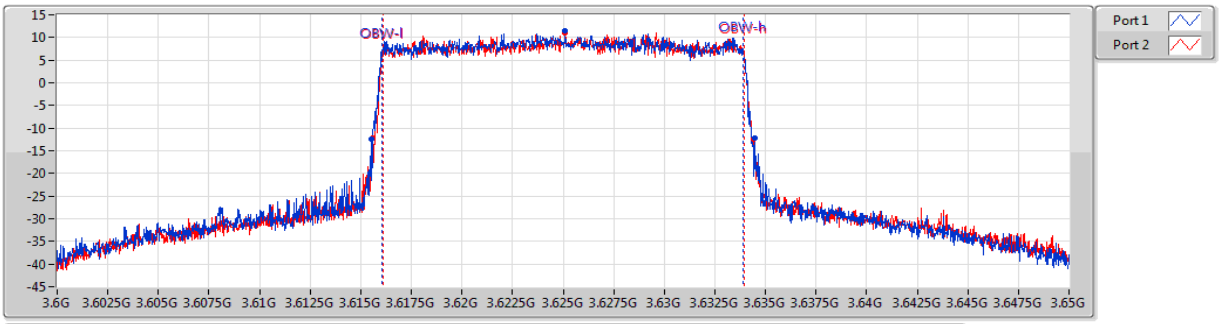
3560MHz_64QAM_RB 100,#RB 0



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)
18.9M	3.55055G	3.56945G	17.827M	3.551095G	3.568922G	1	3.56G	50M	200k	620k
19M	3.5505G	3.5695G	17.825M	3.551091G	3.568916G	2	3.56G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,64QAM_2TX **EBW**

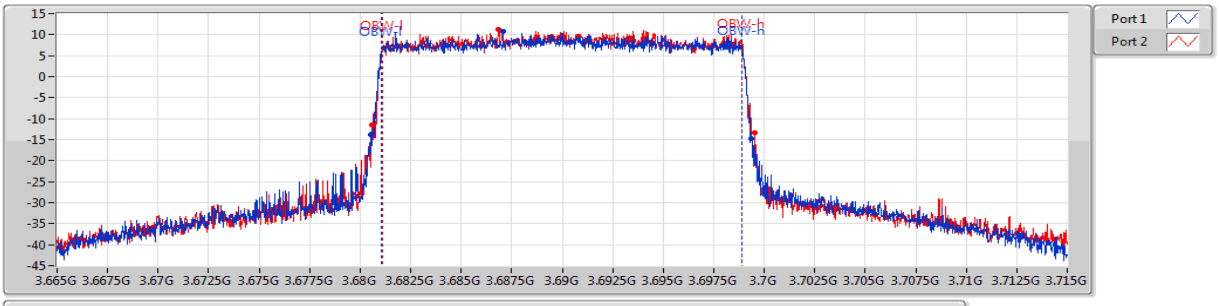
3625MHz_64QAM_RB 100,#RB 0



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)
18.95M	3.615525G	3.634475G	17.844M	3.61606G	3.633904G	1	3.625G	50M	200k	620k
18.825M	3.615575G	3.6344G	17.824M	3.616101G	3.633925G	2	3.625G	50M	200k	620k

Band 48_LTE_20MHz_Nss1,64QAM_2TX **EBW**

3690MHz_64QAM_RB 100,#RB 0



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)
18.875M	3.6805G	3.699375G	17.84M	3.681075G	3.698915G	1	3.69G	50M	200k	620k
18.975M	3.680575G	3.69955G	17.805M	3.681107G	3.698913G	2	3.69G	50M	200k	620k

3.4.4 Test Result of Occupied Bandwidth (CA Mode)

Multi-carrier
Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code
Band 48	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	19.45M	17.849M	17M8G7D
LTE_10MHz+10MHz_Nss1,16QAM_2TX	19.563M	17.858M	17M9W7D
LTE_10MHz+10MHz_Nss1,64QAM_2TX	19.713M	17.881M	17M9W7D
LTE_10MHz+20MHz_Nss1,QPSK_2TX	28.625M	26.745M	26M7G7D
LTE_10MHz+20MHz_Nss1,16QAM_2TX	28.625M	26.743M	26M7W7D
LTE_10MHz+20MHz_Nss1,64QAM_2TX	28.888M	26.776M	26M8W7D
LTE_20MHz+10MHz_Nss1,QPSK_2TX	28.625M	26.766M	26M8G7D
LTE_20MHz+10MHz_Nss1,16QAM_2TX	28.663M	26.759M	26M8W7D
LTE_20MHz+10MHz_Nss1,64QAM_2TX	28.925M	26.787M	26M8W7D
LTE_20MHz+20MHz_Nss1,QPSK_2TX	37.925M	35.67M	35M7G7D
LTE_20MHz+20MHz_Nss1,16QAM_2TX	37.85M	35.66M	35M7W7D
LTE_20MHz+20MHz_Nss1,64QAM_2TX	37.975M	35.68M	35M7W7D

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

Result

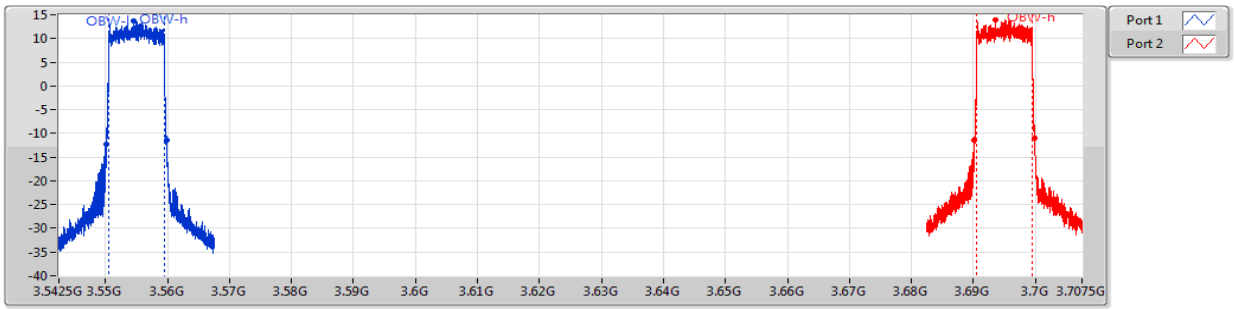
Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.725M	8.923M	9.725M	8.926M
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.775M	8.929M	9.788M	8.929M
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.838M	8.933M	9.875M	8.948M
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.675M	8.917M	18.95M	17.828M
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.775M	8.922M	18.85M	17.821M
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.888M	8.918M	19M	17.858M
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.925M	17.822M	9.7M	8.944M
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.875M	17.837M	9.788M	8.922M
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	19.05M	17.846M	9.875M	8.941M
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.95M	17.829M	18.975M	17.841M
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.875M	17.821M	18.975M	17.839M
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.925M	17.842M	19.05M	17.838M

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

Mode	Result	Limit (Hz)	Port 1 + Port 2 -NdB (Hz)	Port 1 + Port 2 -OBW (Hz)
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.725M	8.923M
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.775M	8.929M
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	Inf	9.838M	8.933M
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.675M	8.917M
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.775M	8.922M
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	Inf	9.888M	8.918M
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.925M	17.822M
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	18.875M	17.837M
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	Inf	19.05M	17.846M
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.95M	17.829M
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.875M	17.821M
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	Inf	18.925M	17.842M

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **EBW**

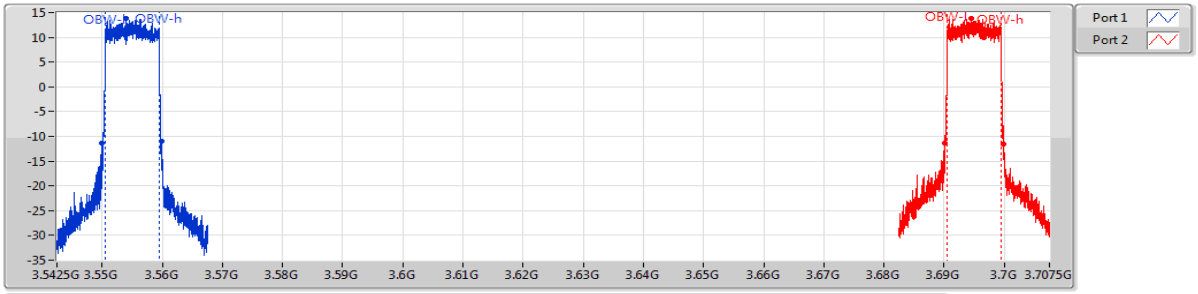
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



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)
9.725M	3.550125G	3.55985G	8.923M	3.550537G	3.55946G	1	3.555G	25M	100k	300k
9.725M	3.690125G	3.69985G	8.926M	3.690544G	3.69947G	2	3.695G	25M	100k	300k

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **EBW**

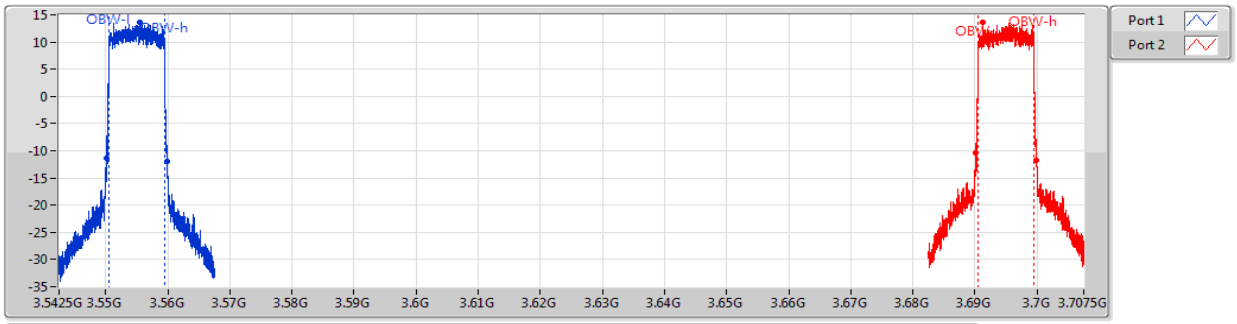
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



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)
9.775M	3.55005G	3.559825G	8.929M	3.55054G	3.559469G	1	3.555G	25M	100k	300k
9.788M	3.690063G	3.69985G	8.929M	3.690541G	3.69947G	2	3.695G	25M	100k	300k

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **EBW**

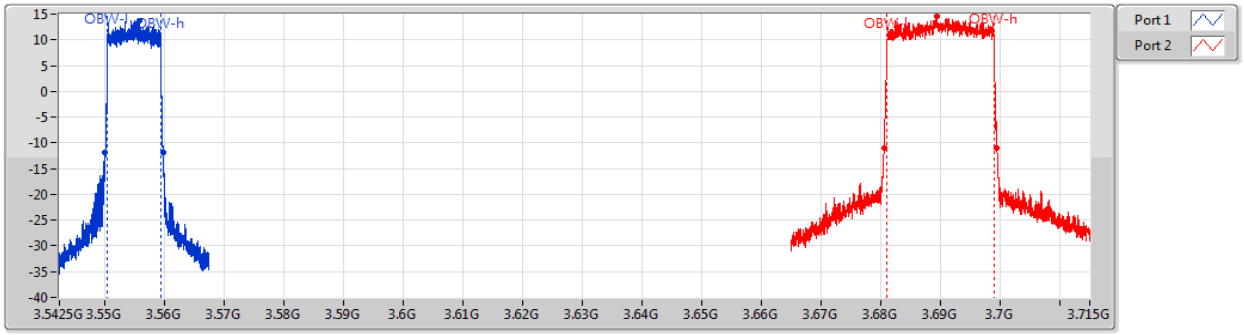
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



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)
9.838M	3.550088G	3.559925G	8.933M	3.550535G	3.559469G	1	3.555G	25M	100k	300k
9.875M	3.690063G	3.699938G	8.948M	3.690526G	3.699474G	2	3.695G	25M	100k	300k

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **EBW**

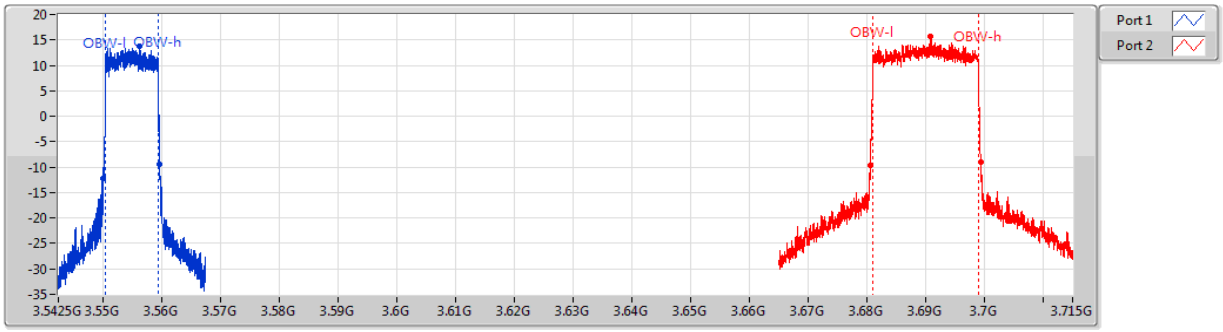
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



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)
9.675M	3.55015G	3.559825G	8.917M	3.550541G	3.559459G	1	3.555G	25M	100k	300k
18.95M	3.680525G	3.699475G	17.828M	3.681099G	3.698927G	2	3.69G	50M	200k	1M

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **EBW**

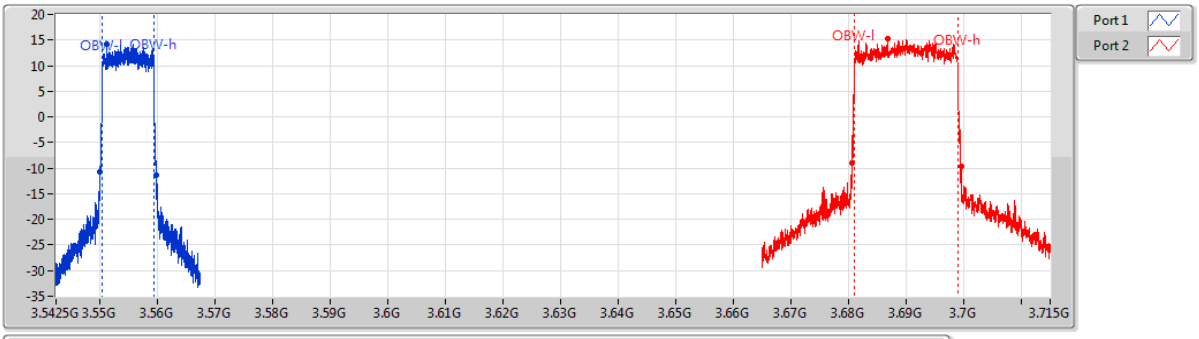
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



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)
9.775M	3.550013G	3.559788G	8.922M	3.550544G	3.559466G	1	3.555G	25M	100k	300k
18.85M	3.680575G	3.699425G	17.821M	3.681093G	3.698913G	2	3.69G	50M	200k	1M

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **EBW**

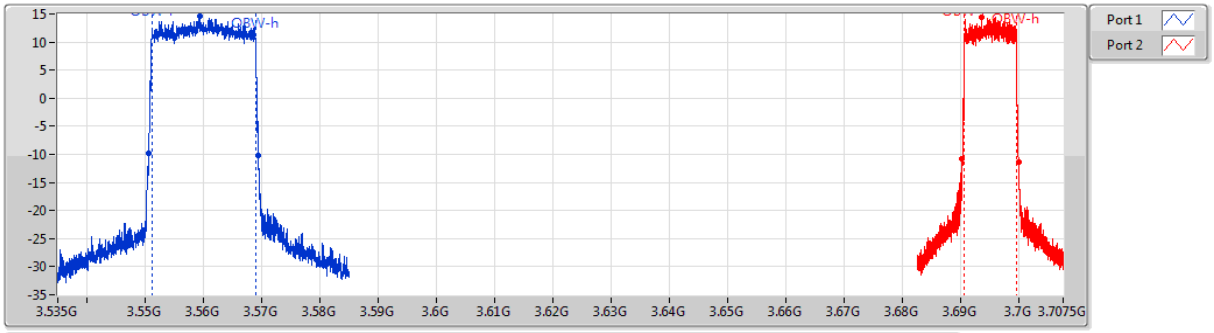
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



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)
9.888M	3.550063G	3.55995G	8.918M	3.550545G	3.559464G	1	3.555G	25M	100k	300k
19M	3.68055G	3.69955G	17.858M	3.681066G	3.698924G	2	3.69G	50M	200k	1M

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **EBW**

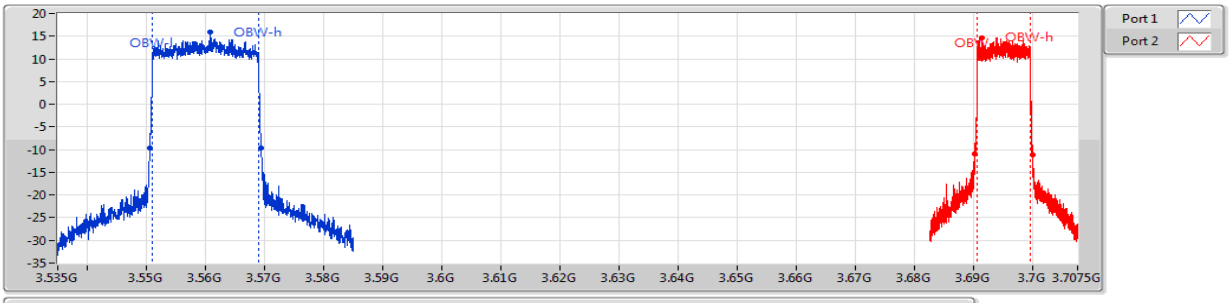
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



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)
18.925M	3.55055G	3.569475G	17.822M	3.551091G	3.568913G	1	3.56G	50M	200k	1M
9.7M	3.69015G	3.69985G	8.944M	3.690526G	3.69947G	2	3.695G	25M	100k	300k

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **EBW**

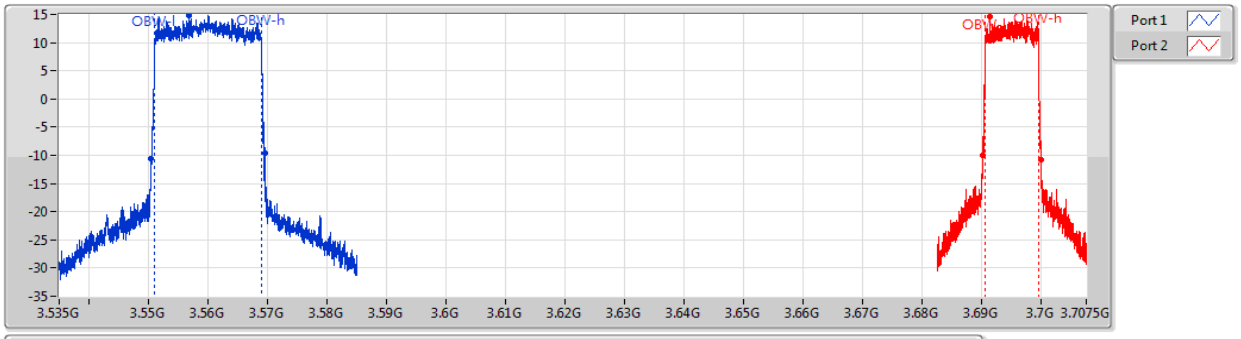
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



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)
18.875M	3.55055G	3.569425G	17.837M	3.551072G	3.568909G	1	3.56G	50M	200k	1M
9.788M	3.690063G	3.69985G	8.922M	3.690546G	3.699468G	2	3.695G	25M	100k	300k

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **EBW**

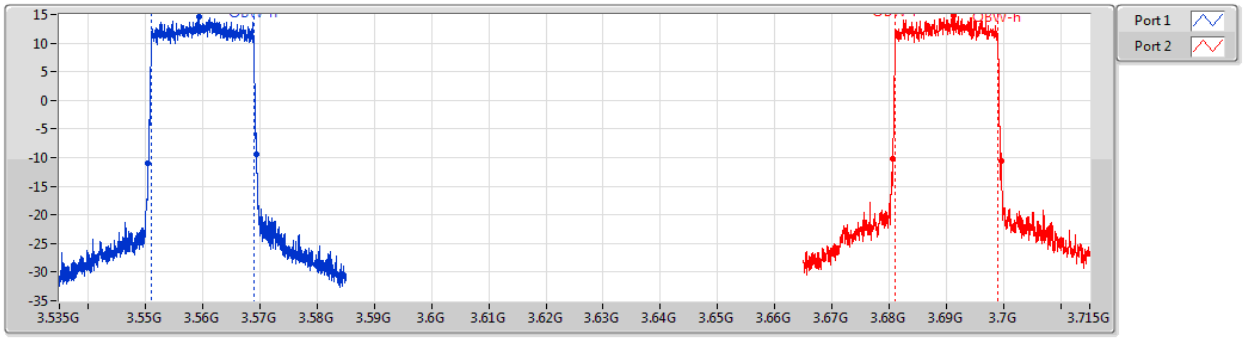
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



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)
19.05M	3.550475G	3.569525G	17.846M	3.551079G	3.568925G	1	3.56G	50M	200k	1M
9.875M	3.690063G	3.699938G	8.941M	3.690528G	3.699469G	2	3.695G	25M	100k	300k

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **EBW**

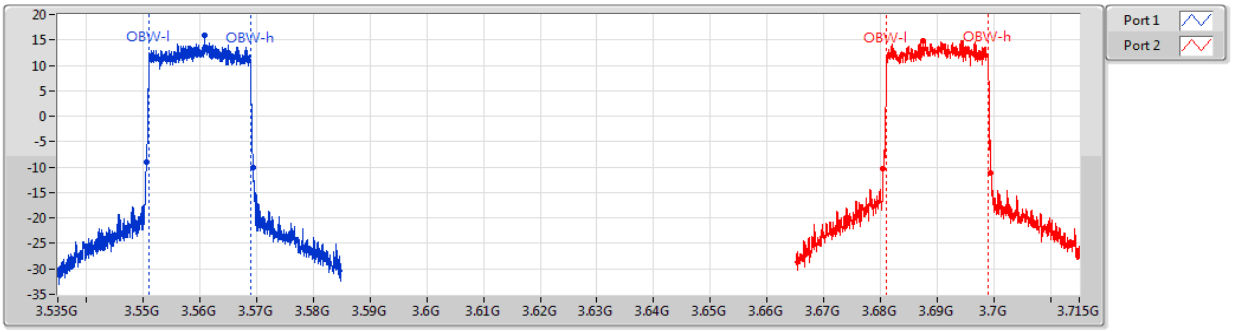
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



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)
18.95M	3.5505G	3.56945G	17.829M	3.551092G	3.568921G	1	3.56G	50M	200k	1M
18.975M	3.68055G	3.699525G	17.841M	3.681078G	3.698918G	2	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **EBW**

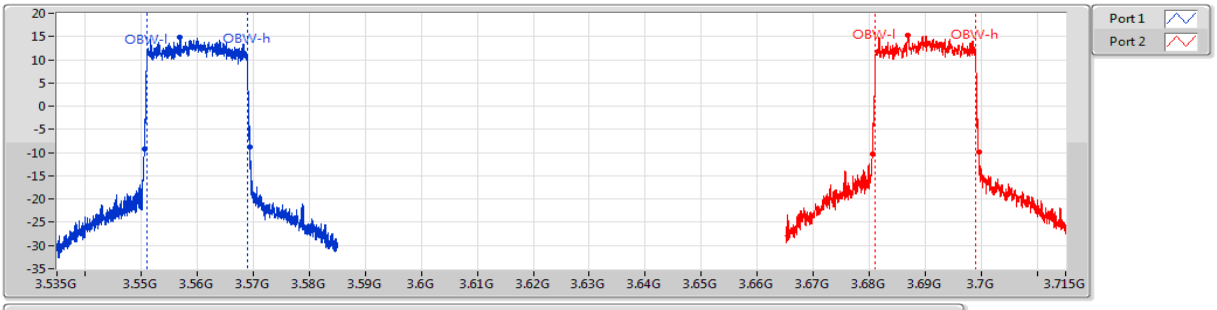
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



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)
18.875M	3.55055G	3.569425G	17.821M	3.551094G	3.568914G	1	3.56G	50M	200k	1M
18.975M	3.680475G	3.69945G	17.839M	3.681083G	3.698922G	2	3.69G	50M	200k	1M

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **EBW**

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



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)
18.925M	3.55055G	3.569475G	17.842M	3.551079G	3.568922G	1	3.56G	50M	200k	1M
19.05M	3.680525G	3.699575G	17.838M	3.681094G	3.698933G	2	3.69G	50M	200k	1M

3.5 Peak to Average Ratio

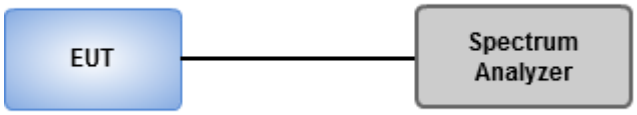
3.5.1 Limit of Peak to Average Ratio

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

3.5.2 Test Procedures

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

3.5.3 Test Setup



Ambient Condition	18-22°C / 64-66%	Tested By	Aska Huang

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

Single-carrier
Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48	-	-	-	-	-
LTE_10MHz_Nss1,QPSK_2TX	Pass	3555	13.00	5.22	2
LTE_10MHz_Nss1,16QAM_2TX	Pass	3555	13.00	5.94	2
LTE_10MHz_Nss1,64QAM_2TX	Pass	3555	13.00	6.07	1
LTE_20MHz_Nss1,QPSK_2TX	Pass	3560	13.00	5.38	1
LTE_20MHz_Nss1,16QAM_2TX	Pass	3625	13.00	6.24	2
LTE_20MHz_Nss1,64QAM_2TX	Pass	3560	13.00	6.32	2

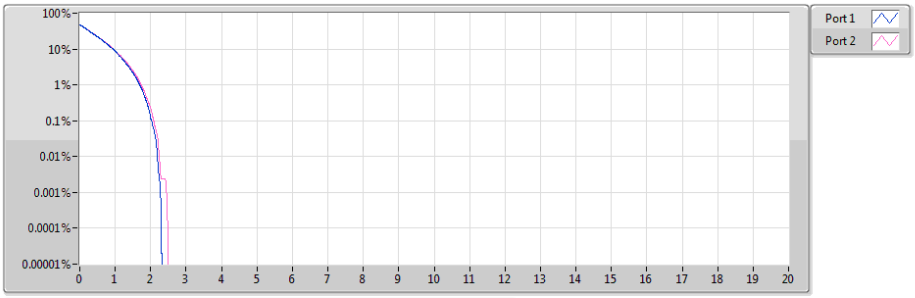
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48_LTE_10MHz_Nss1_2TX	-	-	-	-	-
3555MHz_QPSK_RB 50,#RB 0	Pass	3555	13.00	5.06	1
3555MHz_QPSK_RB 50,#RB 0	Pass	3555	13.00	5.22	2
3625MHz_QPSK_RB 50,#RB 0	Pass	3625	13.00	4.91	1
3625MHz_QPSK_RB 50,#RB 0	Pass	3625	13.00	4.97	2
3695MHz_QPSK_RB 50,#RB 0	Pass	3695	13.00	5.12	1
3695MHz_QPSK_RB 50,#RB 0	Pass	3695	13.00	4.75	2
3555MHz_16QAM_RB 50,#RB 0	Pass	3555	13.00	5.67	1
3555MHz_16QAM_RB 50,#RB 0	Pass	3555	13.00	5.94	2
3625MHz_16QAM_RB 50,#RB 0	Pass	3625	13.00	5.54	1
3625MHz_16QAM_RB 50,#RB 0	Pass	3625	13.00	5.61	2
3695MHz_16QAM_RB 50,#RB 0	Pass	3695	13.00	5.55	1
3695MHz_16QAM_RB 50,#RB 0	Pass	3695	13.00	5.51	2
3555MHz_64QAM_RB 50,#RB 0	Pass	3555	13.00	6.07	1
3555MHz_64QAM_RB 50,#RB 0	Pass	3555	13.00	5.84	2
3625MHz_64QAM_RB 50,#RB 0	Pass	3625	13.00	5.95	1
3625MHz_64QAM_RB 50,#RB 0	Pass	3625	13.00	5.94	2
3695MHz_64QAM_RB 50,#RB 0	Pass	3695	13.00	5.99	1
3695MHz_64QAM_RB 50,#RB 0	Pass	3695	13.00	5.99	2
Band 48_LTE_20MHz_Nss1_2TX	-	-	-	-	-
3560MHz_QPSK_RB 100,#RB 0	Pass	3560	13.00	5.38	1
3560MHz_QPSK_RB 100,#RB 0	Pass	3560	13.00	5.31	2
3625MHz_QPSK_RB 100,#RB 0	Pass	3625	13.00	5.27	1
3625MHz_QPSK_RB 100,#RB 0	Pass	3625	13.00	5.30	2
3690MHz_QPSK_RB 100,#RB 0	Pass	3690	13.00	5.37	1
3690MHz_QPSK_RB 100,#RB 0	Pass	3690	13.00	5.07	2
3560MHz_16QAM_RB 100,#RB 0	Pass	3560	13.00	6.03	1
3560MHz_16QAM_RB 100,#RB 0	Pass	3560	13.00	6.15	2
3625MHz_16QAM_RB 100,#RB 0	Pass	3625	13.00	5.93	1
3625MHz_16QAM_RB 100,#RB 0	Pass	3625	13.00	6.24	2
3690MHz_16QAM_RB 100,#RB 0	Pass	3690	13.00	5.86	1
3690MHz_16QAM_RB 100,#RB 0	Pass	3690	13.00	5.81	2
3560MHz_64QAM_RB 100,#RB 0	Pass	3560	13.00	6.18	1
3560MHz_64QAM_RB 100,#RB 0	Pass	3560	13.00	6.32	2
3625MHz_64QAM_RB 100,#RB 0	Pass	3625	13.00	6.09	1

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
3625MHz_64QAM_RB 100,#RB 0	Pass	3625	13.00	6.15	2
3690MHz_64QAM_RB 100,#RB 0	Pass	3690	13.00	6.15	1
3690MHz_64QAM_RB 100,#RB 0	Pass	3690	13.00	6.16	2

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PAR**

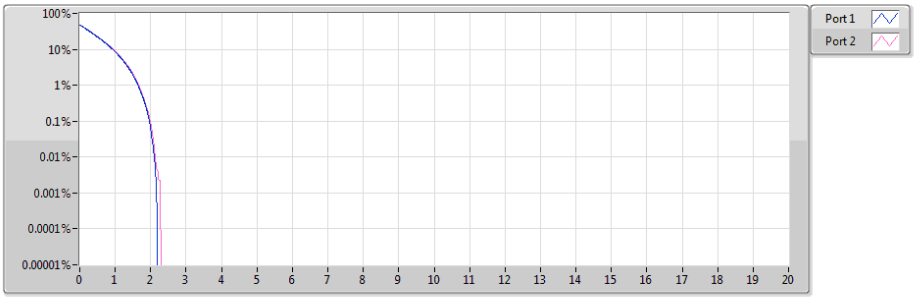
3555MHz_QPSK_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.06	-7.94	13.00	1
3555	20M	5.22	-7.78	13.00	2

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PAR**

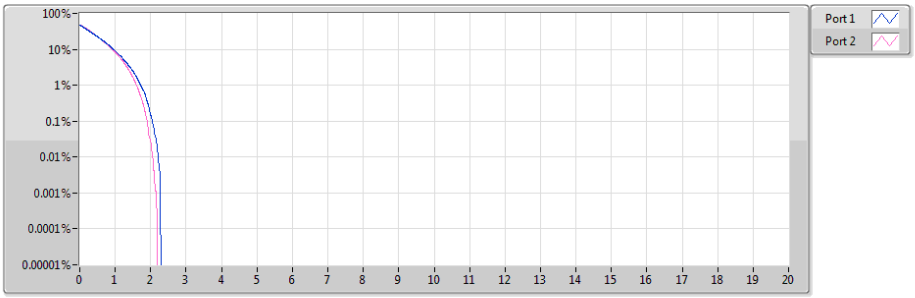
3625MHz_QPSK_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	4.91	-8.09	13.00	1
3625	20M	4.97	-8.03	13.00	2

Band 48_LTE_10MHz_Nss1,QPSK_2TX **PAR**

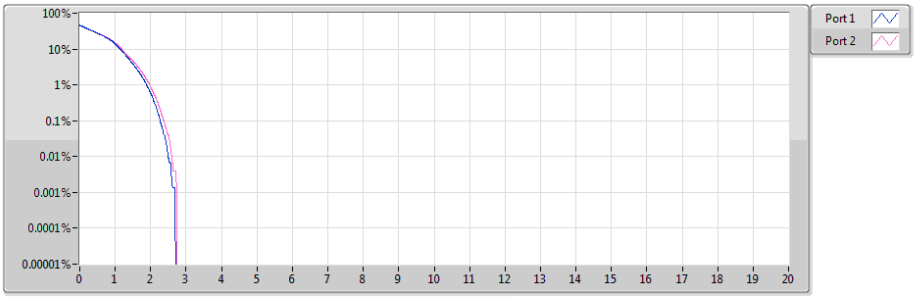
3695MHz_QPSK_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3695	20M	5.12	-7.88	13.00	1
3695	20M	4.75	-8.25	13.00	2

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PAR**

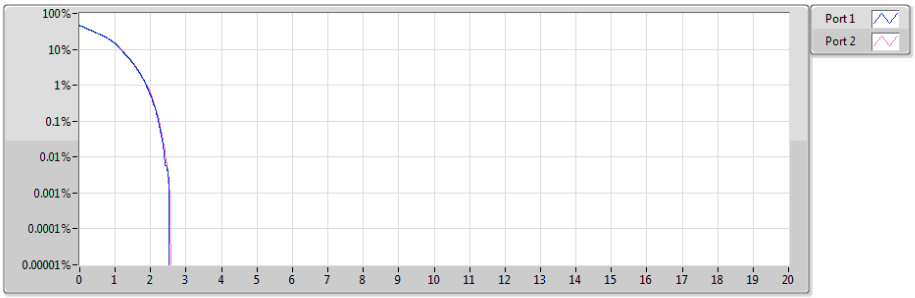
3555MHz_16QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.67	-7.33	13.00	1
3555	20M	5.94	-7.06	13.00	2

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PAR**

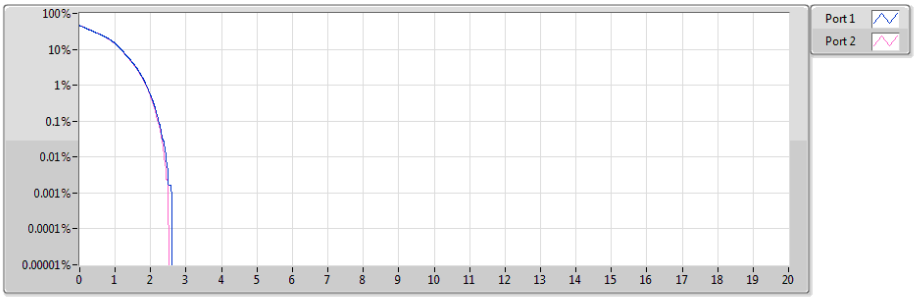
3625MHz_16QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	5.54	-7.46	13.00	1
3625	20M	5.61	-7.39	13.00	2

Band 48_LTE_10MHz_Nss1,16QAM_2TX **PAR**

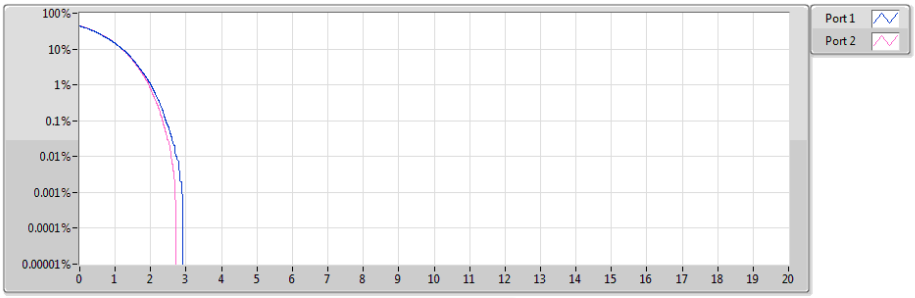
3695MHz_16QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3695	20M	5.55	-7.45	13.00	1
3695	20M	5.51	-7.49	13.00	2

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PAR**

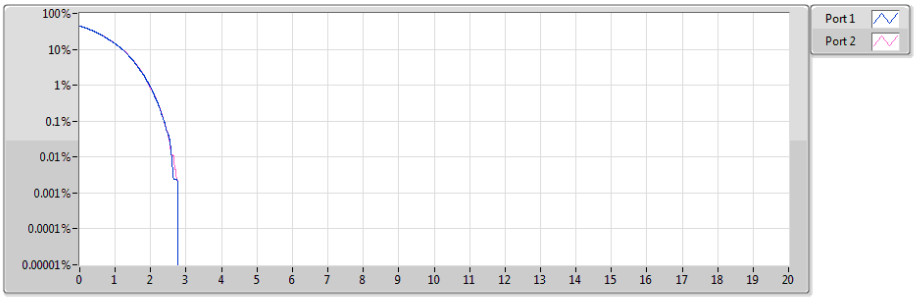
3555MHz_64QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	6.07	-6.93	13.00	1
3555	20M	5.84	-7.16	13.00	2

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PAR**

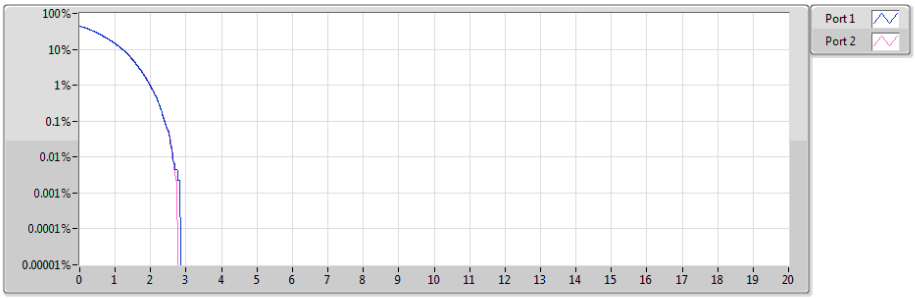
3625MHz_64QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	5.95	-7.05	13.00	1
3625	20M	5.94	-7.06	13.00	2

Band 48_LTE_10MHz_Nss1,64QAM_2TX **PAR**

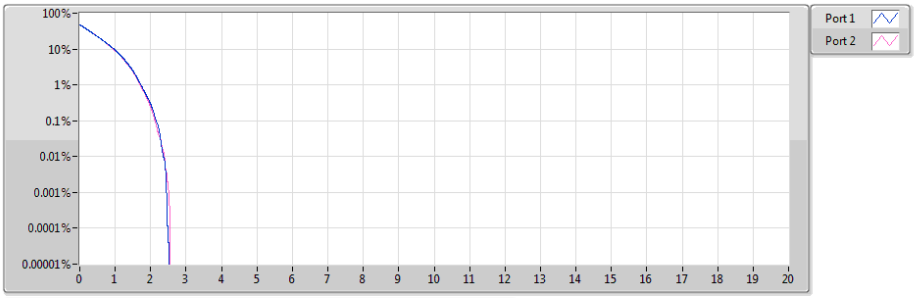
3695MHz_64QAM_RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3695	20M	5.99	-7.01	13.00	1
3695	20M	5.99	-7.01	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PAR**

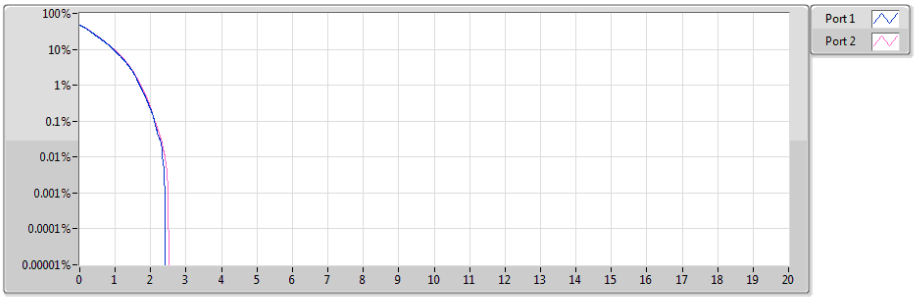
3560MHz_QPSK_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.38	-7.62	13.00	1
3560	20M	5.31	-7.69	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PAR**

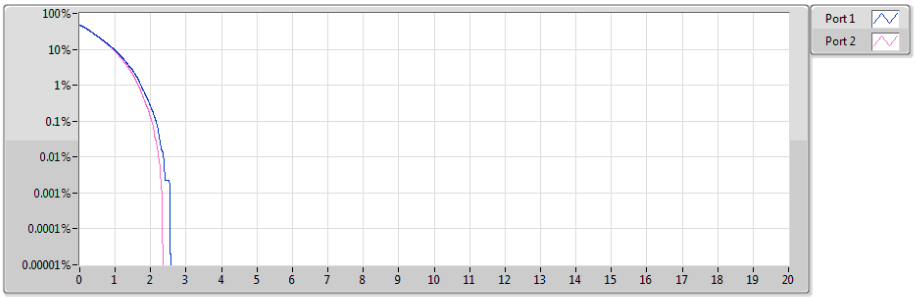
3625MHz_QPSK_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	5.27	-7.73	13.00	1
3625	20M	5.30	-7.70	13.00	2

Band 48_LTE_20MHz_Nss1,QPSK_2TX **PAR**

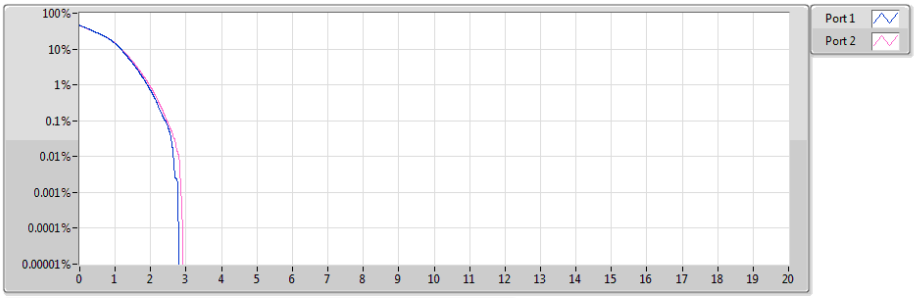
3690MHz_QPSK_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	5.37	-7.63	13.00	1
3690	20M	5.07	-7.93	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PAR**

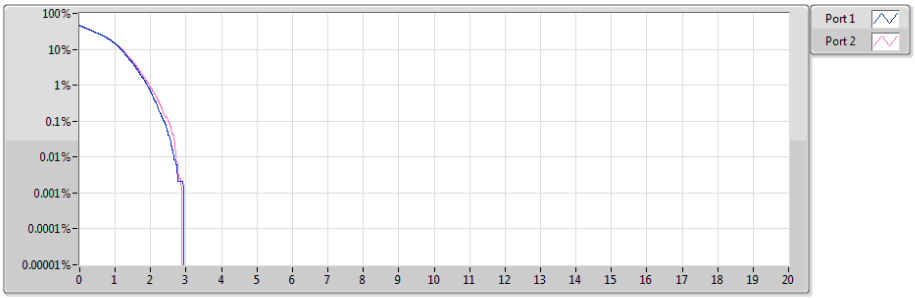
3560MHz_16QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.03	-6.97	13.00	1
3560	20M	6.15	-6.85	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PAR**

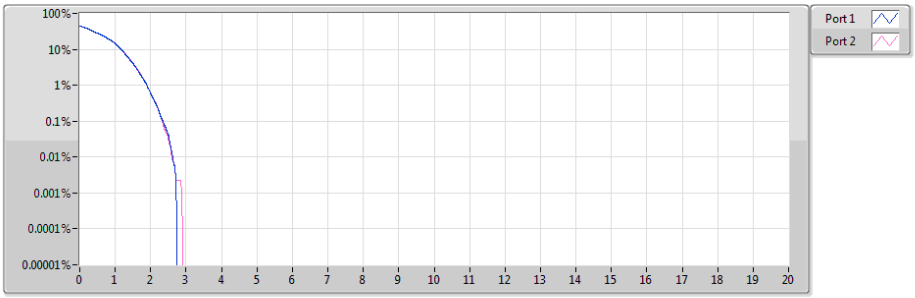
3625MHz_16QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	5.93	-7.07	13.00	1
3625	20M	6.24	-6.76	13.00	2

Band 48_LTE_20MHz_Nss1,16QAM_2TX **PAR**

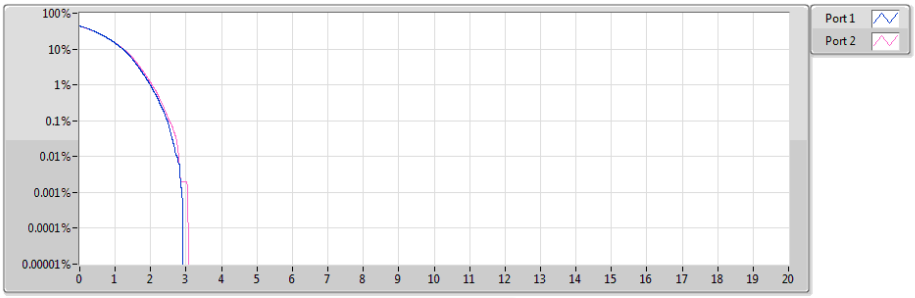
3690MHz_16QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	5.86	-7.14	13.00	1
3690	20M	5.81	-7.19	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PAR**

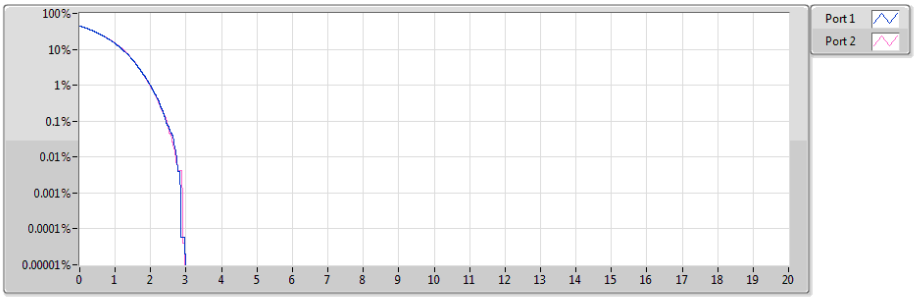
3560MHz_64QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	6.18	-6.82	13.00	1
3560	20M	6.32	-6.68	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PAR**

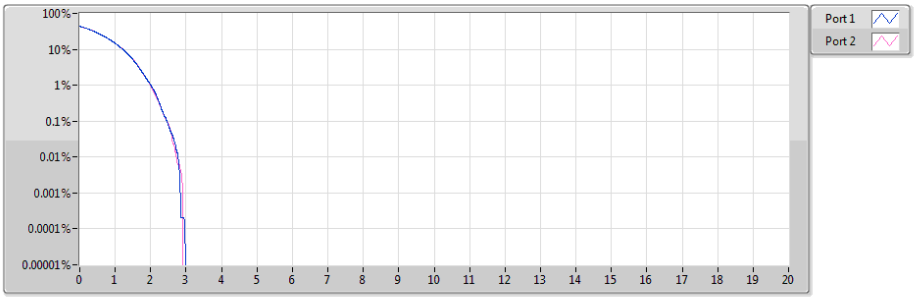
3625MHz_64QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3625	20M	6.09	-6.91	13.00	1
3625	20M	6.15	-6.85	13.00	2

Band 48_LTE_20MHz_Nss1,64QAM_2TX **PAR**

3690MHz_64QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3690	20M	6.15	-6.85	13.00	1
3690	20M	6.16	-6.84	13.00	2

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

Multi-carrier
Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48	-	-	-	-	-
LTE_10MHz+10MHz_Nss1,QPSK_2TX	Pass	3555	13.00	4.97	1
LTE_10MHz+10MHz_Nss1,16QAM_2TX	Pass	3555	13.00	5.27	1
LTE_10MHz+10MHz_Nss1,64QAM_2TX	Pass	3555	13.00	5.39	1
LTE_10MHz+20MHz_Nss1,QPSK_2TX	Pass	3555	13.00	4.96	1
LTE_10MHz+20MHz_Nss1,16QAM_2TX	Pass	3555	13.00	5.38	1
LTE_10MHz+20MHz_Nss1,64QAM_2TX	Pass	3555	13.00	5.37	1
LTE_20MHz+10MHz_Nss1,QPSK_2TX	Pass	3560	13.00	5.15	1
LTE_20MHz+10MHz_Nss1,16QAM_2TX	Pass	3560	13.00	5.61	1
LTE_20MHz+10MHz_Nss1,64QAM_2TX	Pass	3560	13.00	5.62	1
LTE_20MHz+20MHz_Nss1,QPSK_2TX	Pass	3560	13.00	5.14	1
LTE_20MHz+20MHz_Nss1,16QAM_2TX	Pass	3560	13.00	5.59	1
LTE_20MHz+20MHz_Nss1,64QAM_2TX	Pass	3560	13.00	5.63	1

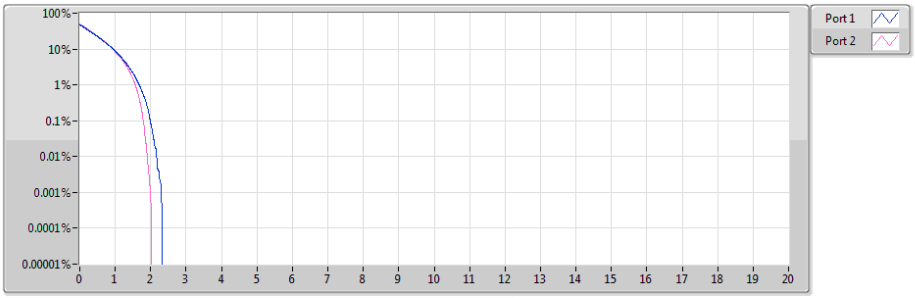
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 48_LTE_10MHz+10MHz_Nss1_2TX	-	-	-	-	-
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	4.97	1
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.48	2
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	5.27	1
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.70	2
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3555	13.00	5.39	1
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.70	2
Band 48_LTE_10MHz+20MHz_Nss1_2TX	-	-	-	-	-
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	4.96	1
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	4.89	2
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	5.38	1
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.36	2
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3555	13.00	5.37	1
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.20	2
Band 48_LTE_20MHz+10MHz_Nss1_2TX	-	-	-	-	-
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	5.15	1
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.48	2
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	5.61	1
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.73	2
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3560	13.00	5.62	1
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0	Pass	3695	13.00	4.81	2
Band 48_LTE_20MHz+20MHz_Nss1_2TX	-	-	-	-	-
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	5.14	1

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	4.86	2
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	5.59	1
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.24	2
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3560	13.00	5.63	1
P#3560MHz,#3690MHz_64QAM_RB 100,#RB 0+RB 100,#RB 0	Pass	3690	13.00	5.22	2

Band 48_LTE_10MHz+10MHz_Nss1,QPSK_2TX **PAR**

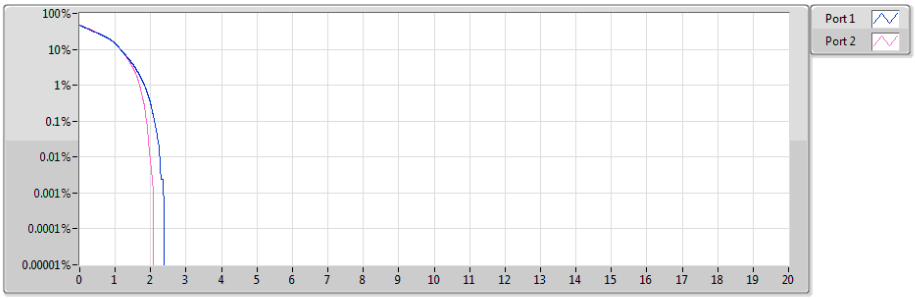
P#3555MHz,#3695MHz_QPSK_RB 50,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	4.97	-8.03	13.00	1
3695	20M	4.48	-8.52	13.00	2

Band 48_LTE_10MHz+10MHz_Nss1,16QAM_2TX **PAR**

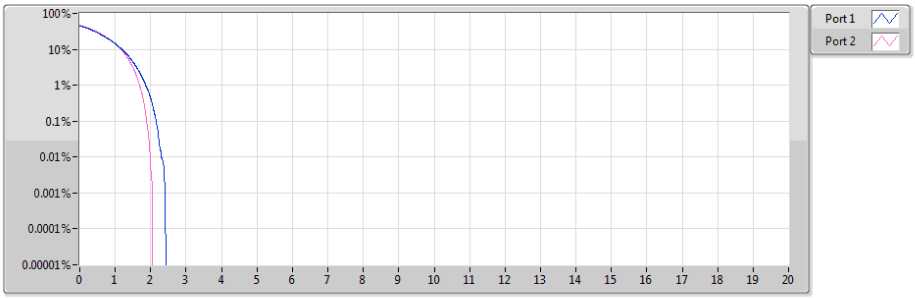
P#3555MHz,#3695MHz_16QAM_RB 50,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.27	-7.73	13.00	1
3695	20M	4.70	-8.30	13.00	2

Band 48_LTE_10MHz+10MHz_Nss1,64QAM_2TX **PAR**

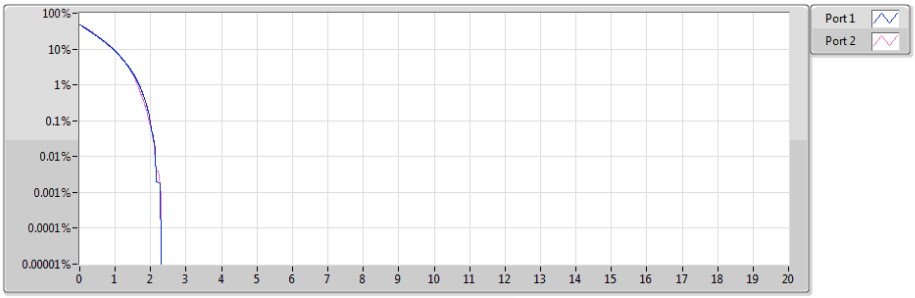
P#3555MHz,#3695MHz_64QAM_RB 50,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.39	-7.61	13.00	1
3695	20M	4.70	-8.30	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,QPSK_2TX **PAR**

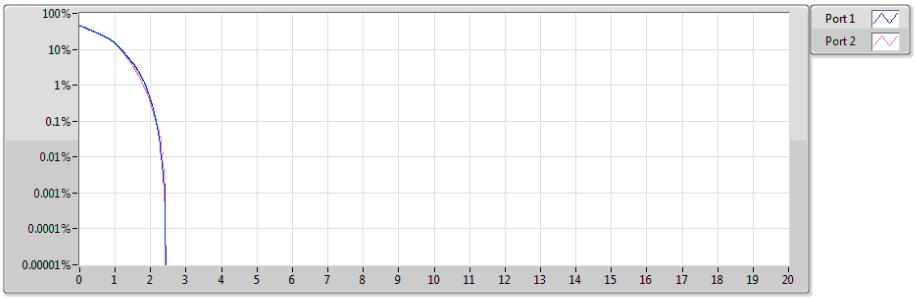
P#3555MHz,#3690MHz_QPSK_RB 50,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	4.96	-8.04	13.00	1
3690	20M	4.89	-8.11	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,16QAM_2TX **PAR**

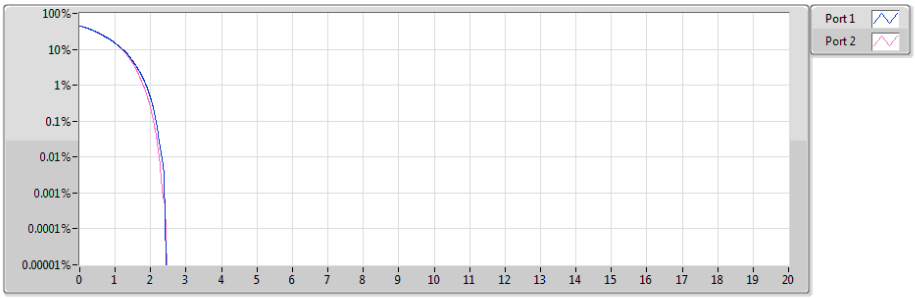
P#3555MHz,#3690MHz_16QAM_RB 50,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.38	-7.62	13.00	1
3690	20M	5.36	-7.64	13.00	2

Band 48_LTE_10MHz+20MHz_Nss1,64QAM_2TX **PAR**

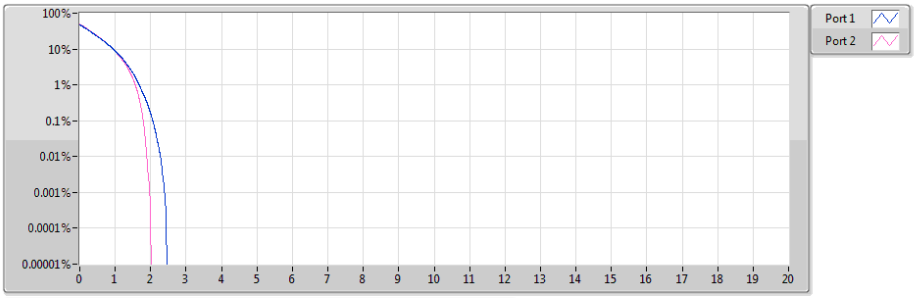
P#3555MHz,#3690MHz_64QAM_RB 50,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3555	20M	5.37	-7.63	13.00	1
3690	20M	5.20	-7.80	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,QPSK_2TX **PAR**

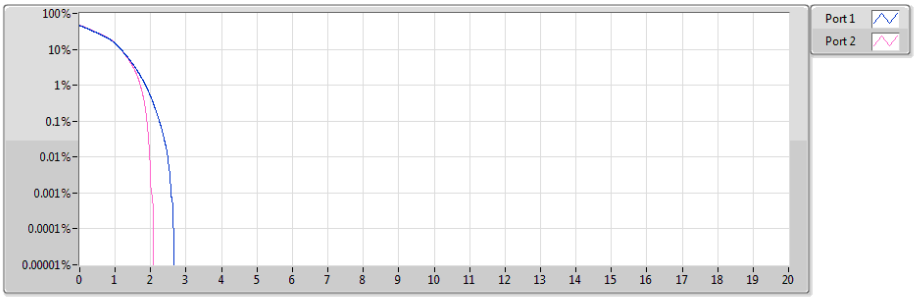
P#3560MHz,#3695MHz_QPSK_RB 100,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.15	-7.85	13.00	1
3695	20M	4.48	-8.52	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,16QAM_2TX **PAR**

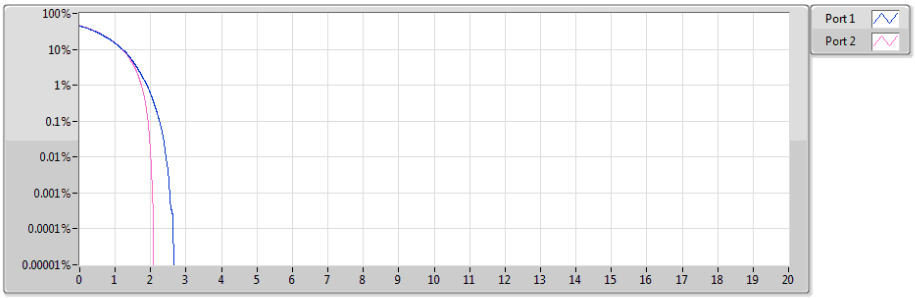
P#3560MHz,#3695MHz_16QAM_RB 100,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.61	-7.39	13.00	1
3695	20M	4.73	-8.27	13.00	2

Band 48_LTE_20MHz+10MHz_Nss1,64QAM_2TX **PAR**

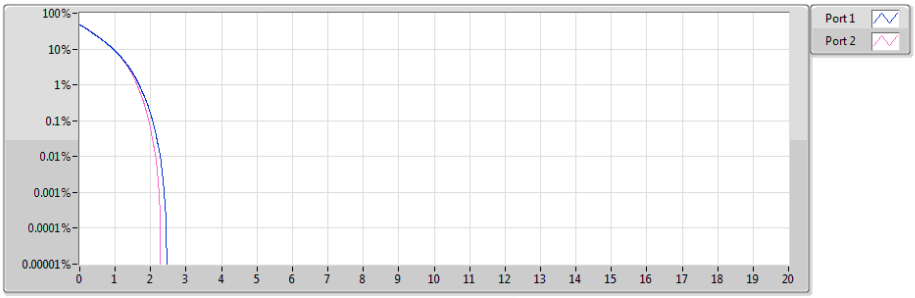
P#3560MHz,#3695MHz_64QAM_RB 100,#RB 0+RB 50,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.62	-7.38	13.00	1
3695	20M	4.81	-8.19	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,QPSK_2TX **PAR**

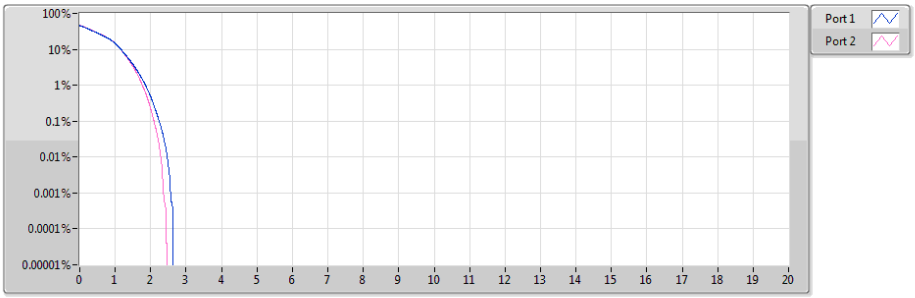
P#3560MHz,#3690MHz_QPSK_RB 100,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.14	-7.86	13.00	1
3690	20M	4.86	-8.14	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,16QAM_2TX **PAR**

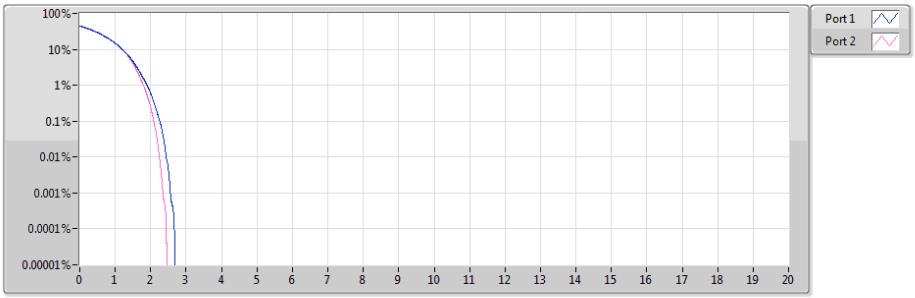
P#3560MHz,#3690MHz_16QAM_RB 100,#RB 0+RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.59	-7.41	13.00	1
3690	20M	5.24	-7.76	13.00	2

Band 48_LTE_20MHz+20MHz_Nss1,64QAM_2TX **PAR**

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



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
3560	20M	5.63	-7.37	13.00	1
3690	20M	5.22	-7.78	13.00	2

3.6 Frequency Stability

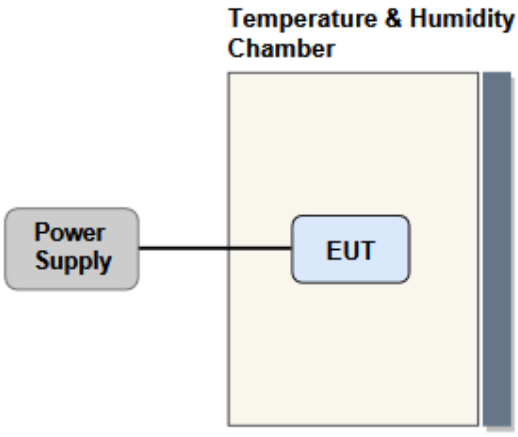
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -30 ~ 50 ^{o}C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



Ambient Condition	18-22°C / 64-66%	Tested By	Aska Huang

3.6.4 Test Result of Frequency Stability (CDD Mode)

Channel Bandwidth: 10MHz

Frequency: 3555 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.014
T20°CVmin		0.015
T50°CVnom		0.014
T40°CVnom		0.015
T30°CVnom		0.014
T20°CVnom		0.015
T10°CVnom		0.015
T0°CVnom		0.014
T-10°CVnom		0.015
T-20°CVnom		0.013
T-30°CVnom		0.013
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

Frequency: 3695 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.014
T30°CVnom		0.014
T20°CVnom		0.015
T10°CVnom		0.015
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.014
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

Channel Bandwidth: 20MHz

Frequency: 3560 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.013
T40°CVnom		0.015
T30°CVnom		0.014
T20°CVnom		0.012
T10°CVnom		0.015
T0°CVnom		0.014
T-10°CVnom		0.013
T-20°CVnom		0.015
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

Frequency: 3690 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.013
T30°CVnom		0.013
T20°CVnom		0.014
T10°CVnom		0.012
T0°CVnom		0.015
T-10°CVnom		0.013
T-20°CVnom		0.014
T-30°CVnom		0.015
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

3.6.5 Test Result of Frequency Stability (CA Mode)

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

Frequency: 3555 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.015
T30°CVnom		0.013
T20°CVnom		0.014
T10°CVnom		0.015
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.013
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3695 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.013
T30°CVnom		0.014
T20°CVnom		0.014
T10°CVnom		0.014
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.014
T-30°CVnom		0.013
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3555 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.014
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.014
T30°CVnom		0.014
T20°CVnom		0.015
T10°CVnom		0.014
T0°CVnom		0.014
T-10°CVnom		0.015
T-20°CVnom		0.014
T-30°CVnom		0.013
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3690 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.012
T30°CVnom		0.014
T20°CVnom		0.014
T10°CVnom		0.014
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.014
T-30°CVnom		0.013
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3560 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.013
T40°CVnom		0.015
T30°CVnom		0.013
T20°CVnom		0.014
T10°CVnom		0.015
T0°CVnom		0.013
T-10°CVnom		0.015
T-20°CVnom		0.013
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3695 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.012
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.013
T30°CVnom		0.014
T20°CVnom		0.013
T10°CVnom		0.012
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.013
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3560 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.014
T20°CVmin		0.014
T50°CVnom		0.013
T40°CVnom		0.014
T30°CVnom		0.014
T20°CVnom		0.015
T10°CVnom		0.014
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.015
T-30°CVnom		0.013
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

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

Frequency: 3690 MHz Temperature (°C)		Frequency Drift (ppm)
T20°CVmax		0.013
T20°CVmin		0.014
T50°CVnom		0.014
T40°CVnom		0.012
T30°CVnom		0.013
T20°CVnom		0.014
T10°CVnom		0.014
T0°CVnom		0.013
T-10°CVnom		0.014
T-20°CVnom		0.013
T-30°CVnom		0.014
Vnom [V]: 120	Vmax [V]: 138	Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50	Tmin [°C]: -30

3.7 Reception Limits

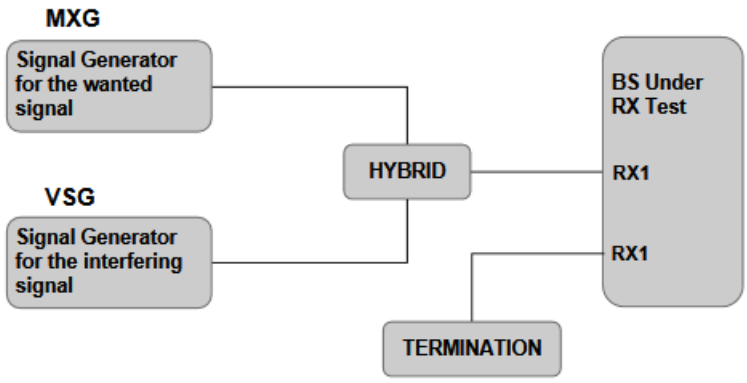
3.7.1 Description of Reception Limits

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

3.7.2 Test Procedures

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

3.7.3 Test Setup



3.7.4 Test Result of Reception Limits (CDD Mode)

Mode	Interference power Leavel (dBm)	CDD wanted signal power Leavel (dBm)	CDD Adjacnet Channel selectivity Thoughput (%)	CDD In-Band blocking Thoughput (%)	Limit (%)
CB:10MHz,3625MHz RB offset=0	-40	-87.5	100	100	99
CB:10MHz,3625MHz RB offset=25	-40	-87.5	100	100	99

Mode	Interference power Leavel (dBm)	CDD wanted signal power Leavel (dBm)	CDD Adjacnet Channel selectivity Thoughput (%)	CDD In-Band blocking Thoughput (%)	Limit (%)
CB:20MHz,3625MHz RB offset=0	-40	-84.5	100	-40	99
CB:20MHz,3625MHz RB offset=25	-40	-84.5	100	-40	99
CB:20MHz,3625MHz RB offset=50	-40	-84.5	100	-40	99
CB:20MHz,3625MHz RB offset=75	-40	-84.5	100	-40	99

3.7.5 Test Result of Reception Limits (CA Mode)

Mode	Interference power Leavel (dBm)	PCC wanted signal power Leavel (dBm)	PCC Adjacnet Channel selectivity Thoughput (%)	PCC In-Band blocking Thoughput (%)	SCC wanted signal power Leavel (dBm)	SCC Adjacnet Channel selectivity Thoughput (%)	SCC In-Band blocking Thoughput (%)	Limit (%)
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:10MHz,3695MHz RB offset=0	-40	-87.5	99.97	99.95	-87.5	99.98	99.92	99
PCC BW:10MHz,3555MHz RB offset=25 SCC BW:10MHz,3695MHz RB offset=25	-40	-87.5	99.95	99.81	-87.5	99.96	99.95	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=0	-40	-87.5	99.96	99.94	-84.5	99.98	99.96	99
PCC BW:10MHz,3555MHz RB offset=25 SCC BW:20MHz,3690MHz RB offset=25	-40	-87.5	99.98	99.96	-84.5	99.98	99.98	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=50	-40	-87.5	99.95	99.93	-84.5	99.93	99.91	99
PCC BW:10MHz,3555MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=75	-40	-87.5	99.96	99.86	-84.5	99.98	99.93	99

Mode	Interference power Leavel (dBm)	PCC wanted signal power Leavel (dBm)	PCC Adjacnet Channel selectivity Thoughput (%)	PCC In-Band blocking Thoughput (%)	SCC wanted signal power Leavel (dBm)	SCC Adjacnet Channel selectivity Thoughput (%)	SCC In-Band blocking Thoughput (%)	Limit (%)
PCC BW:20MHz,3560MHz RB offset=0 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	99.97	99.95	-87.5	99.96	99.89	99
PCC BW:20MHz,3560MHz RB offset=25 SCC BW:10MHz,3695MHz RB offset=25	-40	-84.5	99.97	99.96	-87.5	99.96	99.92	99
PCC BW:20MHz,3560MHz RB offset=50 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	99.95	99.93	-87.5	99.95	99.85	99
PCC BW:20MHz,3560MHz RB offset=75 SCC BW:10MHz,3695MHz RB offset=0	-40	-84.5	99.93	99.82	-87.5	99.97	99.95	99
PCC BW:20MHz,3560MHz RB offset=0 SCC BW:20MHz,3690MHz RB offset=0	-40	-84.5	99.94	99.91	-84.5	99.96	99.93	99
PCC BW:20MHz,3560MHz RB offset=25 SCC BW:20MHz,3690MHz RB offset=25	-40	-84.5	99.95	99.92	-84.5	99.97	99.95	99
PCC BW:20MHz,3560MHz RB offset=50 SCC BW:20MHz,3690MHz RB offset=50	-40	-84.5	99.92	99.89	-84.5	99.95	99.91	99
PCC BW:20MHz,3560MHz RB offset=75 SCC BW:20MHz,3695MHz RB offset=75	-40	-84.5	99.95	99.93	-84.5	99.97	99.82	99

4 Test laboratory information

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

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

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

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

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

Tel: 886-3-271-8666
Fax: 886-3-318-0155
Email: ICC_Service@icertifi.com.tw

==END==