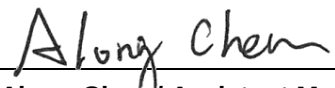


FCC Test Report

FCC ID : 2A7G3XS5G0304
Equipment : 5G DATA CARD
Model No. : XS5G03-GB0
(Refer to item 1.1.1 for more details)
Brand Name : XSquare
Applicant : XSquare Communications Corporation
Address : NO.6 INNOVATION ROAD II, SCIENCE PARK,
HSINCHU 30076, TAIWAN, R.O.C
Standard : 47 CFR FCC Part 27
Received Date : Jun. 13, 2022
Tested Date : Jun. 28 ~ Aug. 19, 2022

We, International Certification Corporation, 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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

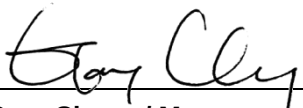

Gary Chang / Manager

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LTE BAND 7

APPENDIX A.1 TEST RESULTS FOR EQUIVALENT ISOTROPICALLY RADIATED POWER

APPENDIX B.1 TEST RESULTS FOR RADIATED EMISSIONS

APPENDIX C.1 TEST RESULTS FOR OUT OF BAND EMISSIONS

APPENDIX D.1 TEST RESULTS FOR CHANNEL EDGE

APPENDIX E.1 TEST RESULTS FOR EMISSION AND OCCUPIED BANDWIDTH

APPENDIX F.1 TEST RESULTS FOR FREQUENCY STABILITY

APPENDIX G.1 TEST RESULTS FOR PEAK TO AVERAGE RATIO

LTE BAND 41

APPENDIX A.2 TEST RESULTS FOR EQUIVALENT ISOTROPICALLY RADIATED POWER

APPENDIX B.2 TEST RESULTS FOR RADIATED EMISSIONS

APPENDIX C.2 TEST RESULTS FOR OUT OF BAND EMISSIONS

APPENDIX D.2 TEST RESULTS FOR CHANNEL EDGE

APPENDIX E.2 TEST RESULTS FOR EMISSION AND OCCUPIED BANDWIDTH

APPENDIX F.2 TEST RESULTS FOR FREQUENCY STABILITY

APPENDIX G.2 TEST RESULTS FOR PEAK TO AVERAGE RATIO

LTE BAND 38

APPENDIX A.3 TEST RESULTS FOR EQUIVALENT ISOTROPICALLY RADIATED POWER

Release Record

Report No.	Version	Description	Issued Date
FG261301P27M	Rev. 01	Initial issue	Sep. 22, 2022

Summary of Test Results

FCC Rules	Description of Test	Measured	Result
2.1046 / 27.50(h)(2)	Equivalent Isotropically Radiated Power	LTE Band 7 Maximum EIRP[W]: 21.28 LTE Band 38 Maximum EIRP[W]: 21.63 LTE Band 41 Maximum EIRP[W]: 21.39	Pass
2.1053 / 27.53(m)(4)(6)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(4)(6)	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(4)(6)	Channel Edge Measurement	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Power Ratio	Meet the requirement of limit	Pass
2.1049(h) / 27.53(m)(6)	Emission Bandwidth	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
XSquare	XS5G03-GBO	5G DATA CARD	(SA+NSA)+GPS
	XS5G04-GBO		(SA Only)+GPS XS5G03-GBO base band IC disable NSA by SW
✦ The above models, model XS5G03-GBO was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

Operating Frequency	LTE Band 7: Channel Bandwidth: 5MHz: 2502.5MHz ~ 2567.5 MHz Channel Bandwidth: 10MHz: 2505 MHz ~ 2565 MHz Channel Bandwidth: 15MHz: 2507.5 MHz ~ 2562.5 MHz Channel Bandwidth: 20MHz: 2510 MHz ~ 2560 MHz LTE Band 38: Channel Bandwidth: 5MHz: 2572.5 MHz ~ 2617.5 MHz Channel Bandwidth: 10MHz: 2575 MHz ~ 2615 MHz Channel Bandwidth: 15MHz: 2577.5 MHz ~ 2612.55 MHz Channel Bandwidth: 20MHz: 2580 MHz ~ 2610 MHz LTE Band 41: Channel Bandwidth: 5MHz: 2498.5 MHz ~ 2687.5 MHz Channel Bandwidth: 10MHz: 2501 MHz ~ 2685 MHz Channel Bandwidth: 15MHz: 2503.5 MHz ~ 2682.5 MHz Channel Bandwidth: 20MHz: 2506 MHz ~ 2680 MHz
Modulation Type	QPSK, 16QAM, 64QAM (Uplink)

1.1.3 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
Anjie	AELQ2S-B066L	Dipole	UFL	-1.1

1.1.4 Power Supply Type of Equipment under Test (EUT)

Supply Voltage	3.3Vdc from host		
Operational Voltage	☒ Vnom (3.3 V)	☒ Vmax (3.63 V)	☒ Vmin (3.135 V)
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (70°C)	☒ Tmin (-30°C)

1.1.5 Accessories

N/A

1.1.6 Maximum Conducted Power and Emission Designator

LTE Band 7			
Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
5 MHz	QPSK	0.170	4M47G7D
5 MHz	16QAM	0.147	4M47W7D
5 MHz	64QAM	0.115	4M47W7D
10 MHz	QPSK	0.173	8M93G7D
10 MHz	16QAM	0.141	8M91W7D
10 MHz	64QAM	0.110	8M92W7D
15 MHz	QPSK	0.169	13M4G7D
15 MHz	16QAM	0.142	13M4W7D
15 MHz	64QAM	0.111	13M4W7D
20 MHz	QPSK	0.173	17M9G7D
20 MHz	16QAM	0.138	17M8W7D
20 MHz	64QAM	0.107	17M9W7D

LTE Band 38			
Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
5 MHz	QPSK	0.175	4M46G7D
5 MHz	16QAM	0.142	4M46W7D
5 MHz	64QAM	0.114	4M47W7D
10 MHz	QPSK	0.185	8M92G7D
10 MHz	16QAM	0.159	8M93W7D
10 MHz	64QAM	0.116	8M95W7D
15 MHz	QPSK	0.172	13M4G7D
15 MHz	16QAM	0.140	13M4W7D
15 MHz	64QAM	0.115	13M4W7D
20 MHz	QPSK	0.187	17M8G7D
20 MHz	16QAM	0.148	17M8W7D
20 MHz	64QAM	0.119	17M9W7D

LTE Band 41			
Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
5 MHz	QPSK	0.176	4M46G7D
5 MHz	16QAM	0.146	4M46W7D
5 MHz	64QAM	0.108	4M47W7D
10 MHz	QPSK	0.176	8M92G7D
10 MHz	16QAM	0.147	8M93W7D
10 MHz	64QAM	0.116	8M95W7D
15 MHz	QPSK	0.177	13M4G7D
15 MHz	16QAM	0.143	13M4W7D
15 MHz	64QAM	0.105	13M4W7D
20 MHz	QPSK	0.177	17M8G7D
20 MHz	16QAM	0.142	17M8W7D
20 MHz	64QAM	0.103	17M9W7D

1.1.7 Operating Channel List

LTE Band 7		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	20775	2502.5
5	21100	2535
5	21425	2567.5
10	20800	2505
10	21100	2535
10	21400	2565
15	20825	2507.5
15	21100	2535
15	21375	2562.5
20	20850	2510
20	21100	2535
20	21350	2560

LTE Band 38		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	37775	2572.5
5	38000	2595
5	38225	2617.5
10	37800	2575
10	38000	2595
10	38200	2615
15	37825	2577.5
15	38000	2595
15	38175	2612.5
20	37850	2580
20	38000	2595
20	38150	2610

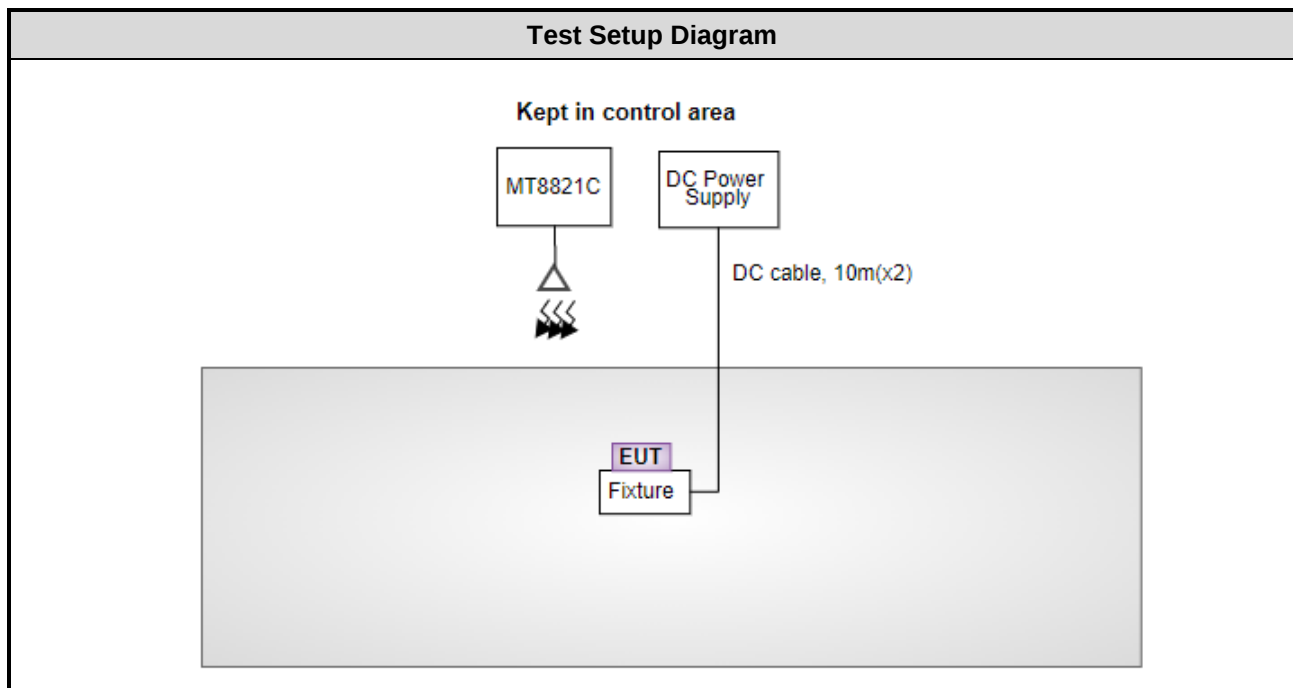
LTE Band 41		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	39675	2498.5
5	40620	2593
5	41565	2687.5
10	39700	2501
10	40620	2593
10	41540	2685
15	39725	2503.5
15	40620	2593
15	41515	2682.5
20	39750	2506
20	40620	2593
20	41490	2680

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	DC Power Supply	GWINSTEK	GPC-60300	---	---
2	Notebook	DELL	Latitude 5400	DoC	---
3	Fixture	---	---	---	Provided by applicant.

Note: The support notebook was disconnected from EUT and was removed from test table after sending command from notebook to control EUT to transmit continuously.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Aug. 08 ~ Aug. 15, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jun. 28, 2022	Jun. 27, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045B	980192	Jul. 08, 2022	Jul. 07, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Sep. 16, 2021	Sep. 15, 2022
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jun. 28 ~ Aug. 12, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Spectrum Analyzer	keysight	N9020A	MY53420894	Oct. 19, 2021	Oct. 18, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
Measurement Software	Sporton	SENSE-FCC_2G-4 G	V5.10.5	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Sep. 16, 2021	Sep. 15, 2022
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 27

ANSI C63.26-2015

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

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 ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	24-25°C / 61-64%	Bard Wu
RF Conducted	TH01-WS	24-26°C / 63-65%	Aska Huang

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

2.2 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

2.3 The Worst Test Modes and Channel Details

Test items	Band	Bandwidth(MHz)						Modulation			RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
peak-to-Average Ratio	7	-	-				v	v	v	v			v		v	
	38	Covered by LTE Band41														
	41	-	-				v	v	v	v			v		v	
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v			v		v	
	38	Covered by LTE Band41														
	41	-	-	v	v	v	v	v	v	v			v		v	
Conducted Channel edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	38	Covered by LTE Band41														
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v			v			v	v	v
	38	Covered by LTE Band41														
	41	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	7	-	-				v	v					v		v	
	38	Covered by LTE Band41														
	41	-	-				v	v					v		v	
E.I.R.P	7	-	-	v	v	v	v	v	v	v	Max. power					
	38	-	-	v	v	v	v	v	v	v						
	41	-	-	v	v	v	v	v	v	v						
Radiated Spurious Emission	7	Worst Case												v	v	v
	38	Covered by LTE Band41												v	v	v
	41	Worst Case												v	v	v
Remark	1. The mark "v" means that this configuration is for testing. 2. The mark "-" means that this bandwidth is not supported. 3.The device is investigated form 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported 4. Spurious Emissions within 30-1000MHz were found more than 20dB below limit line. 5. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.															

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Mobile stations are limited to 2.0 watts EIRP

3.1.2 Test Procedures

For E.I.R.P measurement

EIPR can be calculated by below formula from KDB 412172 D01.

1. $EIRP = P_T + G_T - L_C$

P_T = transmitter output power, in dBm.

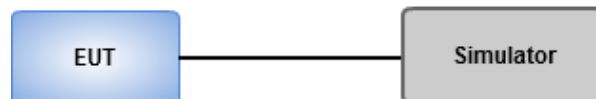
G_T = gain of the transmitting antenna, in dBi (EIRP).

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

For Conducted power measurement

1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT

3.1.3 Test Setup



3.1.4 Test Result

Refer to Appendix A.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

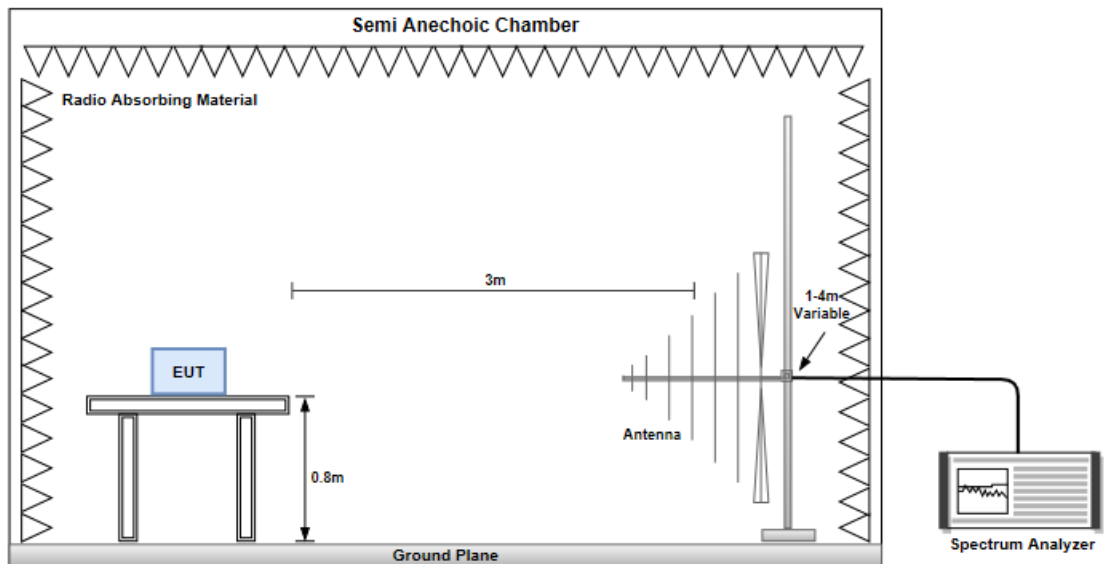
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13 dBm.

3.2.2 Test Procedures

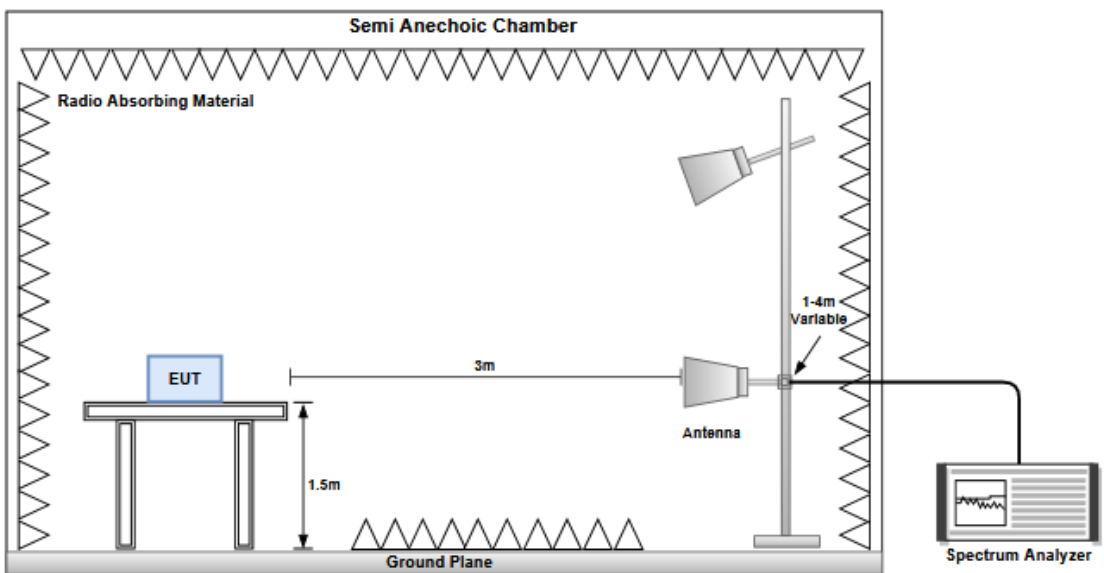
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions

Refer to Appendix B.

3.3 Out of Band Emissions

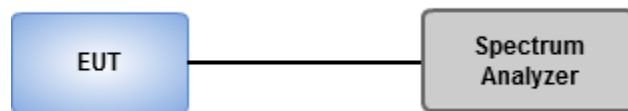
3.3.1 Limit of Out of Band Emissions

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB equal to -25dBm.

3.3.2 Test Procedures

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~27GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = average, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

3.3.3 Test Setup



3.3.4 Test Result of Conducted Emissions

Refer to Appendix C.

3.4 Channel Edge

3.4.1 Limit of Channel Edge

The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph FCC Part 27.53(m)(6). In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz

3.4.2 Test Procedures

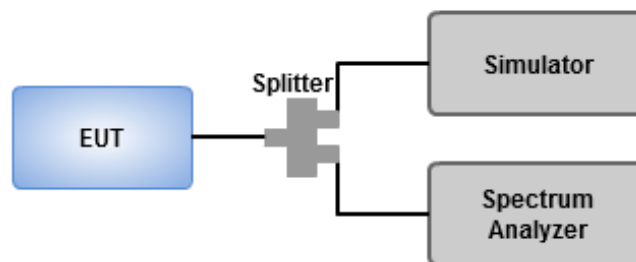
Band power measurement

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 2% of emission bandwidth, VBW = 3 x RBW, detector = RMS, sweep time = auto.
3. Enable adjacent channel power of spectrum analyzer to measure power of channel edge
4. Record the max trace value and capture the test plot.

Non-Band power measurement

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 1MHz, VBW = 3 MHz, detector = RMS, sweep time = auto.
3. Record the max trace value and capture the test plot.

3.4.3 Test Setup



3.4.4 Test Result of Band Edge

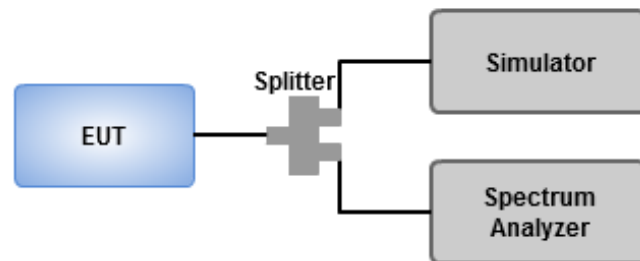
Refer to Appendix D

3.5 Emission and Occupied Bandwidth

3.5.1 Test Procedures

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Set Detector = Peak, Trace mode = max hold, Sweep = auto couple, Allow the trace to stabilize.
3. Using 26dB and occupied bandwidth measurement function of spectrum analyzer to measure bandwidth

3.5.2 Test Setup



3.5.3 Test Result of Emission and Occupied Bandwidth

Refer to Appendix E.

3.6 Frequency Stability

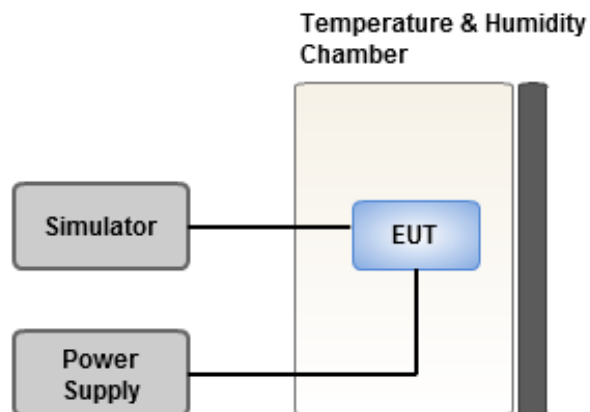
3.6.1 Limit of Frequency Stability

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. The test shall be performed under normal and extreme condition for temperature and voltage.
4. Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Refer to Appendix F.

3.7 Peak to Average Power Ratio

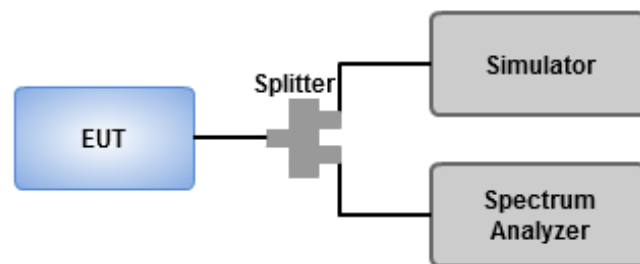
3.7.1 Limit of Peak to Average Power Ratio

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

3.7.2 Test Procedures

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Set the measurement interval to 1 ms.
4. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.3 Test Setup



3.7.4 Test Result of Peak to Average Power Ratio

Refer to Appendix G

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

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No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

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Summary

Part27M LTE Band 7 MaxiMum Average Power [dBm](GT-LC= -1.1 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest	EIRP	EIRP
Channel				20850	21100	21350		
Frequency				2510	2535	2560	(dBm)	(W)
20	QPSK	1	0	22.33	22.38	22.26	21.28	0.1343
20	QPSK	1	99	22.13	22.2	22.07		
20	QPSK	100	0	21.57	21.78	21.64		
20	16QAM	1	0	21.31	21.4	21.3	20.3	0.1072
20	64QAM	1	0	20.16	20.3	20.17	19.2	0.0832
Channel				20825	21100	21375	EIRP	EIRP
Frequency				2507.5	2535	2562.5	(dBm)	(W)
15	QPSK	1	0	22.17	22.27	22.22	21.17	0.1309
15	QPSK	1	74	22.11	22.26	22.07		
15	QPSK	75	0	21.66	21.8	21.78		
15	16QAM	1	0	21.44	21.52	21.49	20.42	0.1102
15	64QAM	1	0	20.22	20.47	20.26	19.37	0.0865
Channel				20800	21100	21400	EIRP	EIRP
Frequency				2505	2535	2565	(dBm)	(W)
10	QPSK	1	0	22.2	22.37	22.24	21.27	0.1340
10	QPSK	1	49	22.17	22.33	22.22		
10	QPSK	50	0	21.74	21.87	21.78		
10	16QAM	1	0	21.36	21.5	21.36	20.4	0.1096
10	64QAM	1	0	20.27	20.42	20.33	19.32	0.0855
Channel				20775	21100	21425	EIRP	EIRP
Frequency				2502.5	2535	2567.5	(dBm)	(W)
5	QPSK	1	0	22.22	22.31	22.28	21.21	0.1321
5	QPSK	1	24	22.2	22.3	22.26		
5	QPSK	25	0	21.71	21.78	21.79		
5	16QAM	1	0	21.47	21.68	21.37	20.58	0.1143
5	64QAM	1	0	20.38	20.61	20.33	19.51	0.0893
Limit	EIRP < 2 W			Result			Pass	

Summary

Part27M LTE Band 41 Maximum Average Power [dBm](GT-LC= -1.1 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest		
Channel				39750	40620	41490	EIRP	EIRP
Frequency				2506	2593	2680	(dBm)	(W)
20	QPSK	1	0	22.49	22.44	22.47	21.39	0.1377
20	QPSK	1	99	22.42	22.32	22.39		
20	QPSK	100	0	21.88	21.83	21.97		
20	16QAM	1	0	21.45	21.38	21.53	20.43	0.1104
20	64QAM	1	0	20.1	20.07	20.13	19.03	0.0800
Channel				39725	40620	41515	EIRP	EIRP
Frequency				2503.5	2593	2682.5	(dBm)	(W)
15	QPSK	1	0	22.45	22.45	22.48	21.38	0.1374
15	QPSK	1	74	22.42	22.36	22.43		
15	QPSK	75	0	21.92	21.88	21.93		
15	16QAM	1	0	21.56	21.55	21.53	20.46	0.1112
15	64QAM	1	0	20.22	20.19	20.21	19.12	0.0817
Channel				39700	40620	41540	EIRP	EIRP
Frequency				2501	2593	2685	(dBm)	(W)
10	QPSK	1	0	22.41	22.42	22.45	21.35	0.1365
10	QPSK	1	49	22.39	22.4	22.42		
10	QPSK	50	0	22.02	21.95	22.03		
10	16QAM	1	0	21.53	21.58	21.67	20.57	0.1140
10	64QAM	1	0	20.66	20.21	20.27	19.56	0.0904
Channel				39675	40620	41565	EIRP	EIRP
Frequency				2498.5	2593	2687.5	(dBm)	(W)
5	QPSK	1	0	22.46	22.44	22.42	21.36	0.1368
5	QPSK	1	24	22.39	22.3	22.36		
5	QPSK	25	0	21.97	21.95	22		
5	16QAM	1	0	21.62	21.53	21.63	20.53	0.1130
5	64QAM	1	0	20.26	20.26	20.32	19.22	0.0836
Limit	EIRP < 2 W			Result			Pass	

Summary

Part27M LTE Band 38 Maximum Average Power [dBm](GT-LC= -1.1 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest		
Channel				37850	38000	38150	EIRP	EIRP
Frequency				2580	2595	2610	(dBm)	(W)
20	QPSK	1	0	22.63	22.73	22.61	21.63	0.1455
20	QPSK	1	99	22.51	22.52	22.43		
20	QPSK	100	0	22.07	22.03	21.92		
20	16QAM	1	0	21.62	21.71	21.52	20.61	0.1151
20	64QAM	1	0	20.74	20.77	20.66	19.67	0.0927
Channel				37825	38000	38175	EIRP	EIRP
Frequency				2577.5	2595	2612.5	(dBm)	(W)
15	QPSK	1	0	22.36	22.35	22.26	21.26	0.1337
15	QPSK	1	74	22.35	22.25	22.23		
15	QPSK	75	0	21.89	21.85	21.76		
15	16QAM	1	0	21.47	21.47	21.35	20.37	0.1089
15	64QAM	1	0	20.61	20.59	20.46	19.51	0.0893
Channel				37800	38000	38200	EIRP	EIRP
Frequency				2575	2595	2615	(dBm)	(W)
10	QPSK	1	0	22.68	22.66	22.13	21.58	0.1439
10	QPSK	1	49	22.63	22.62	22.12		
10	QPSK	50	0	21.87	21.76	21.78		
10	16QAM	1	0	22.01	21.99	21.44	20.91	0.1233
10	64QAM	1	0	20.64	20.62	20.04	19.54	0.0899
Channel				37775	38000	38225	EIRP	EIRP
Frequency				2572.5	2595	2617.5	(dBm)	(W)
5	QPSK	1	0	22.43	22.43	22.34	21.33	0.1358
5	QPSK	1	24	22.42	22.42	22.32		
5	QPSK	25	0	21.75	21.89	21.84		
5	16QAM	1	0	21.51	21.52	21.39	20.42	0.1102
5	64QAM	1	0	20.21	20.15	20.57	19.47	0.0885
Limit	EIRP < 2 W			Result			Pass	

Mode	LTE Band 7, QPSK, CB:20 MHz, 1 RB, Channel: 20850						
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)
5002.4	H	-61.38	-25	-36.38	-73.24	-67.44	6.06
7503.6	H	-57.16	-25	-32.16	-72.54	-60.28	3.12
10004.8	H	-54.94	-25	-29.94	-70.25	-56.07	1.13
5002.4	V	-60.46	-25	-35.46	-72.45	-66.52	6.06
7503.6	V	-55.85	-25	-30.85	-71.69	-58.97	3.12
10004.8	V	-56.27	-25	-31.27	-69.58	-57.4	1.13

Mode	LTE Band 7, QPSK, CB:20 MHz, 1 RB, Channel: 21100						
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)
5052.4	H	-61.42	-25	-36.42	-73.14	-67.4	5.98
7578.6	H	-57.1	-25	-32.1	-72.65	-60.43	3.33
10104.8	H	-55.36	-25	-30.36	-70.56	-56.39	1.03
5052.4	V	-60.32	-25	-35.32	-72.14	-66.3	5.98
7578.6	V	-56.19	-25	-31.19	-72.16	-59.52	3.33
10104.8	V	-56.31	-25	-31.31	-69.85	-57.34	1.03

Mode	LTE Band 7, QPSK, CB:20 MHz, 1 RB, Channel: 21350						
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)
5102.4	H	-61.37	-25	-36.37	-72.94	-67.28	5.91
7653.6	H	-56.88	-25	-31.88	-72.24	-60.13	3.25
10204.8	H	-54.79	-25	-29.79	-69.88	-55.72	0.93
5102.4	V	-60.76	-25	-35.76	-72.4	-66.67	5.91
7653.6	V	-55.68	-25	-30.68	-71.48	-58.93	3.25
10204.8	V	-56.1	-25	-31.1	-69.85	-57.03	0.93

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

Mode	LTE Band 41, QPSK, CB:20 MHz, 1 RB, Channel: 39750						
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)
4994.4	H	-61.02	-25	-36.02	-72.87	-67.07	6.05
7491.6	H	-56.95	-25	-31.95	-72.31	-60.04	3.09
9988.8	H	-54.78	-25	-29.78	-70.06	-55.9	1.12
4994.4	V	-59.88	-25	-34.88	-71.85	-65.93	6.05
7491.6	V	-55.73	-25	-30.73	-71.55	-58.82	3.09
9988.8	V	-55.77	-25	-30.77	-69.11	-56.89	1.12

Mode	LTE Band 41, QPSK, CB:20 MHz, 1 RB, Channel: 40620						
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)
5168.4	H	-61.06	-25	-36.06	-72.45	-66.88	5.82
7752.6	H	-57.3	-25	-32.3	-72.25	-60.28	2.98
10336.8	H	-55	-25	-30	-69.95	-55.8	0.8
5168.4	V	-60.82	-25	-35.82	-72.24	-66.64	5.82
7752.6	V	-56.44	-25	-31.44	-71.86	-59.42	2.98
10336.8	V	-55.36	-25	-30.36	-69.41	-56.16	0.8

Mode	LTE Band 41, QPSK, CB:20 MHz, 1 RB, Channel: 41490						
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)
5342.4	H	-60.72	-25	-35.72	-72.65	-66.96	6.24
8013.6	H	-57.25	-25	-32.25	-72.11	-59.63	2.38
10684.8	H	-54.91	-25	-29.91	-69.75	-55.38	0.47
5342.4	V	-60.9	-25	-35.9	-72.86	-67.14	6.24
8013.6	V	-56.25	-25	-31.25	-71.52	-58.63	2.38
10684.8	V	-54.86	-25	-29.86	-69.34	-55.33	0.47

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



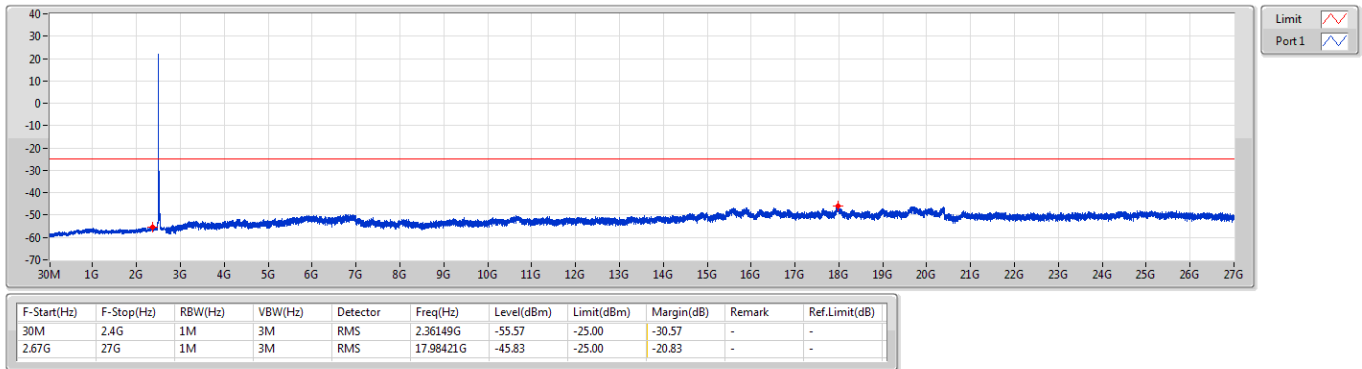
Summary

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 7	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2.67G	27G	1M	3M	RMS	17.98421G	-45.83	-25.00	-20.83	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	2.67G	27G	1M	3M	RMS	17.97433G	-45.51	-25.00	-20.51	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	2.67G	27G	1M	3M	RMS	17.96597G	-45.90	-25.00	-20.90	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	2.67G	27G	1M	3M	RMS	17.97053G	-45.41	-25.00	-20.41	-	-

Band 7_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

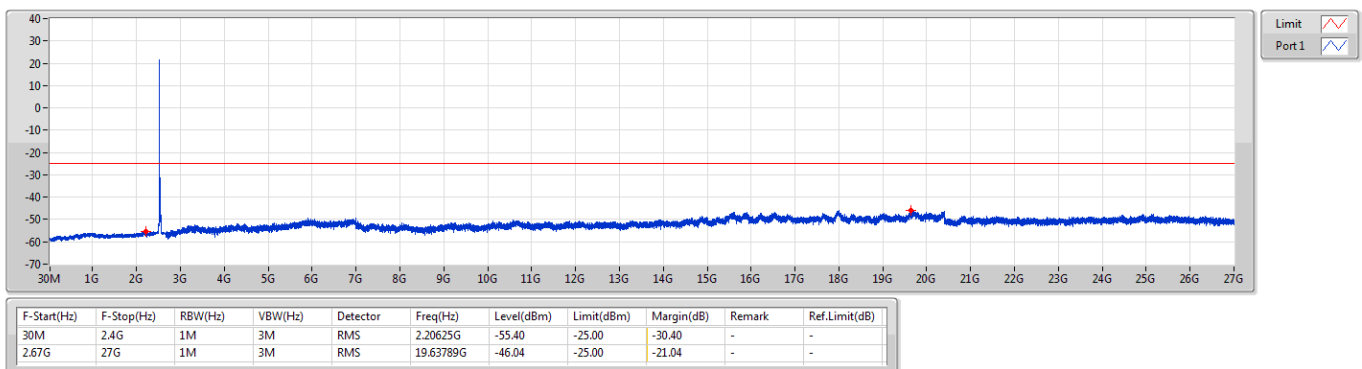
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Band 7_LTE_20MHz_Nss1,QPSK_1TX

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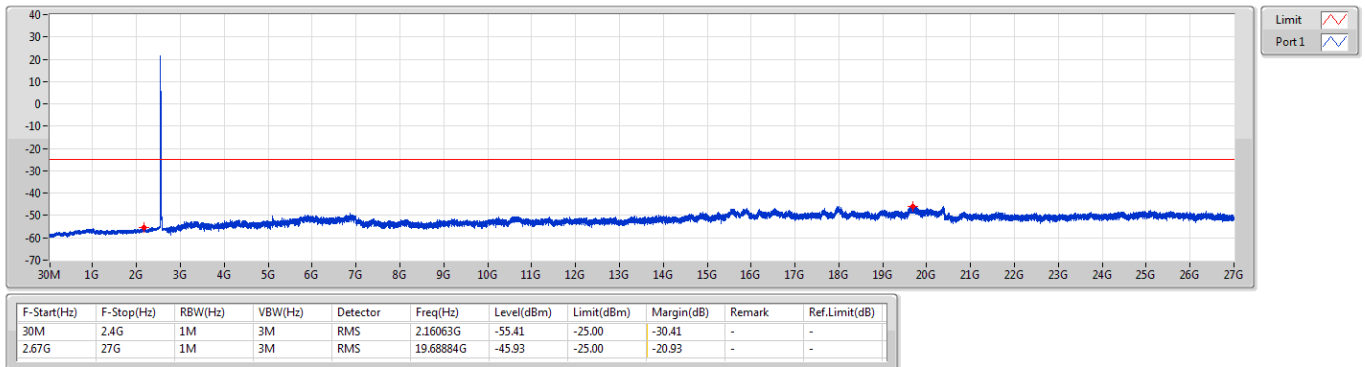
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Band 7_LTE_20MHz_Nss1,QPSK_1TX

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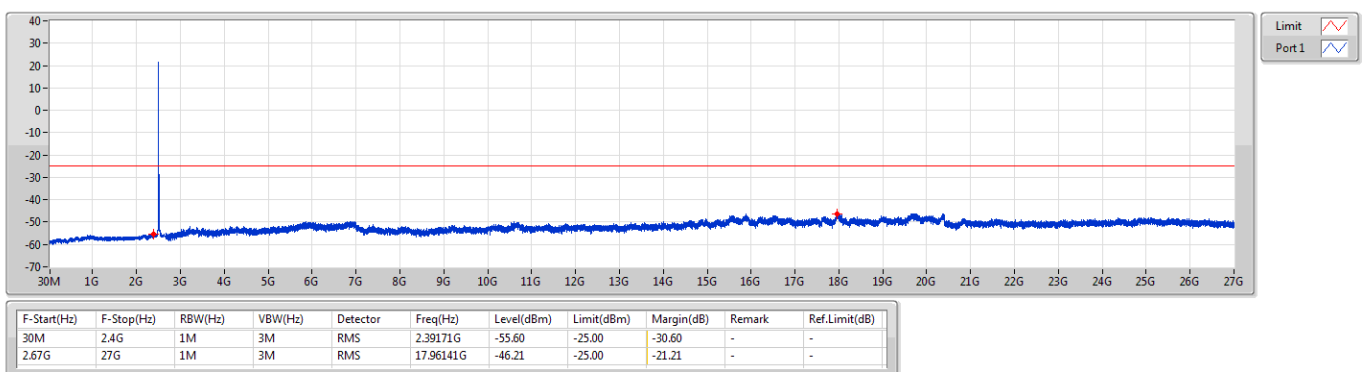
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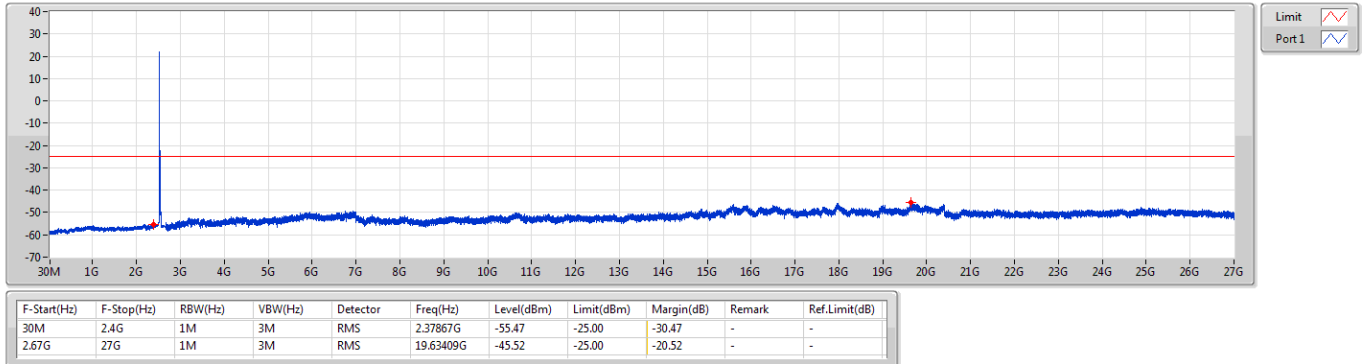
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Band 7_LTE_15MHz_Nss1,QPSK_1TX

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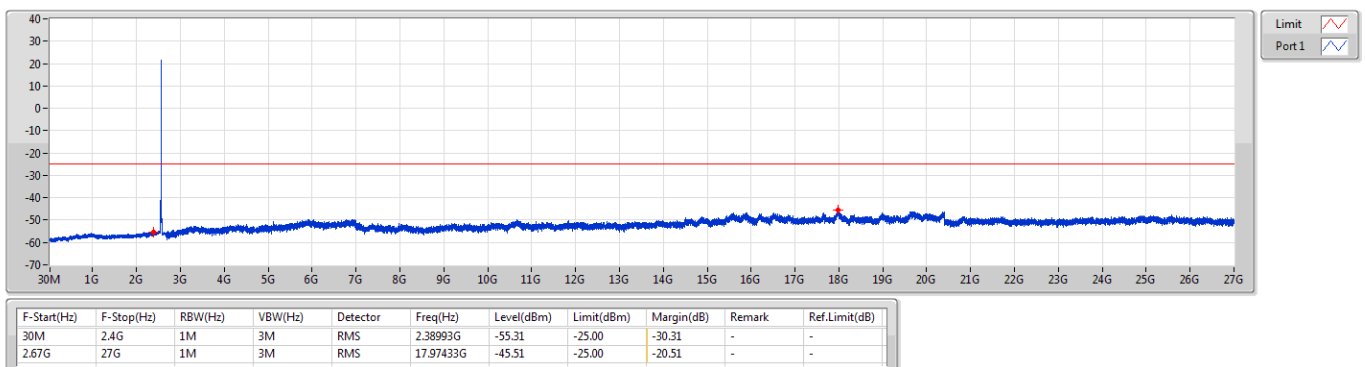
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Band 7_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

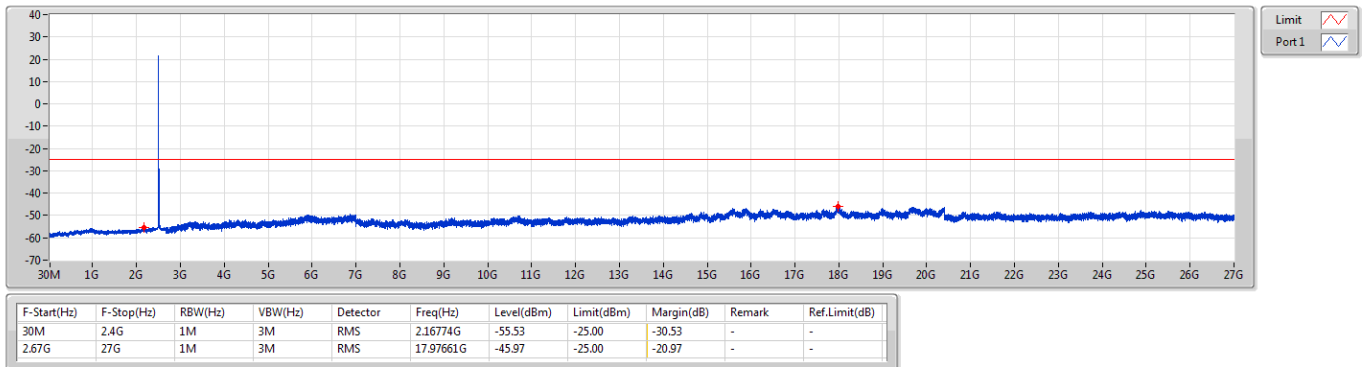
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Band 7_LTE_10MHz_Nss1,QPSK_1TX

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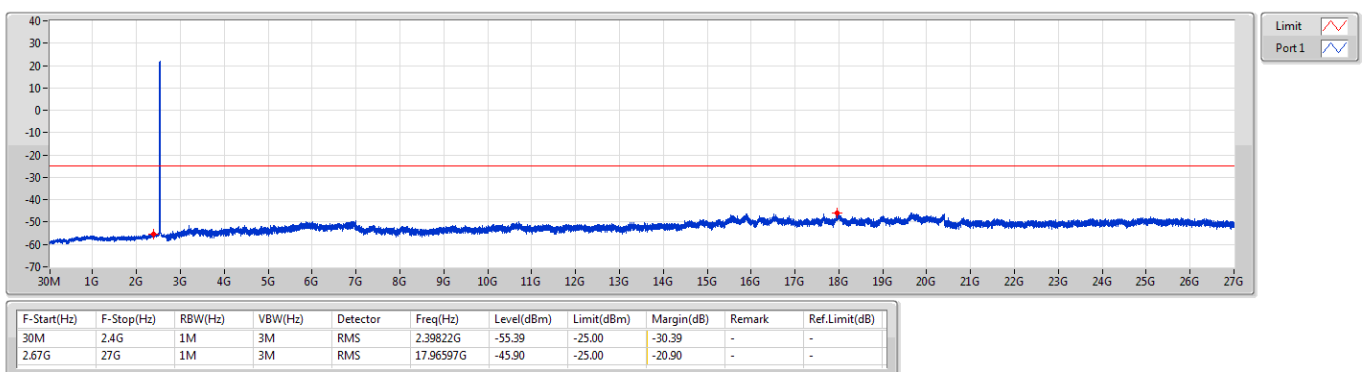
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Band 7_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Sum

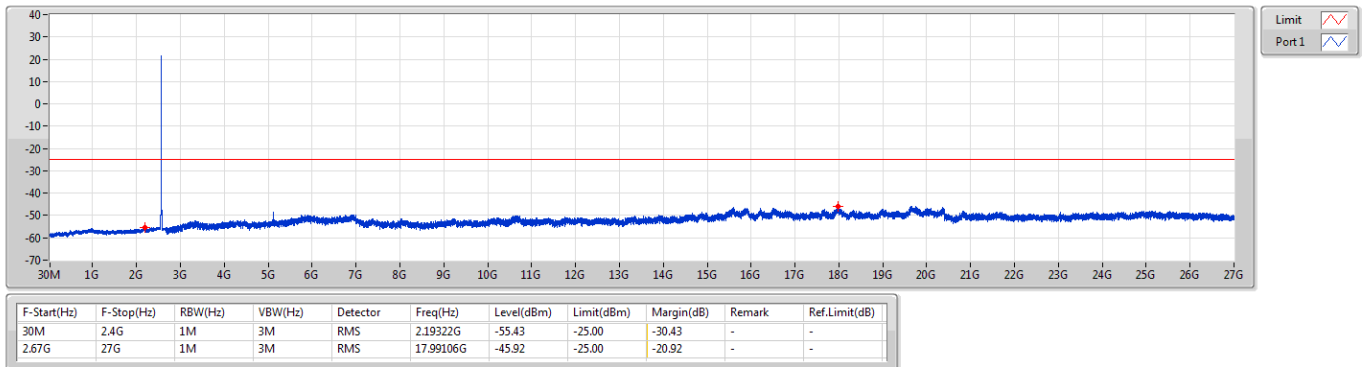
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Band 7_LTE_10MHz_Nss1,QPSK_1TX

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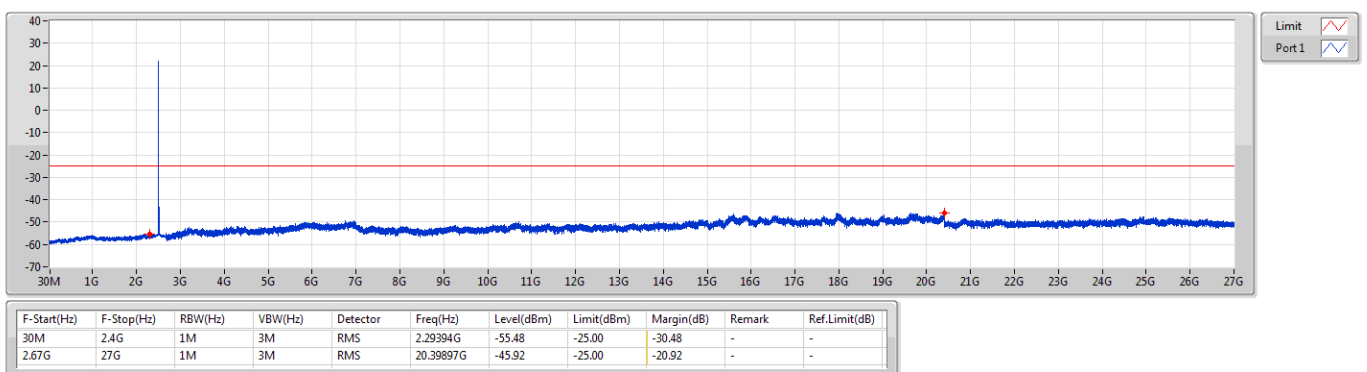
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Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

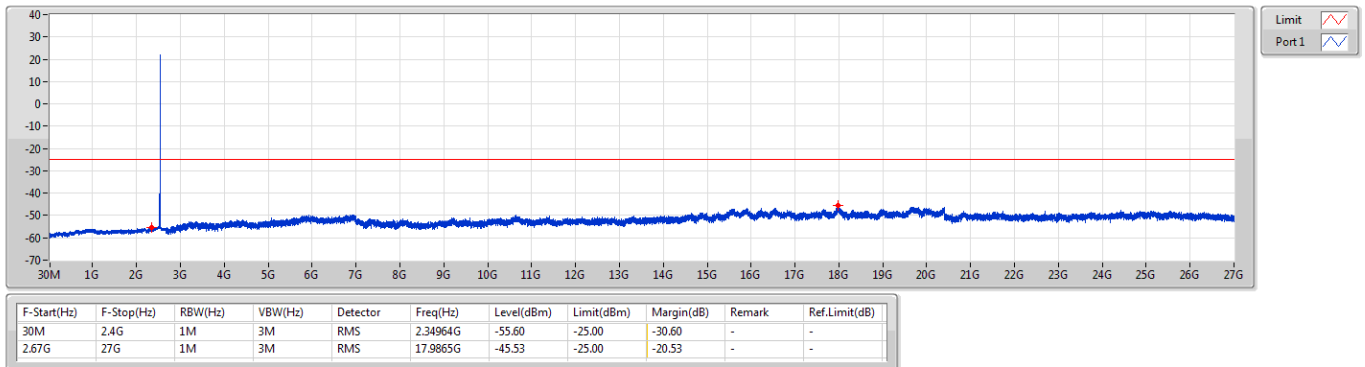
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Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

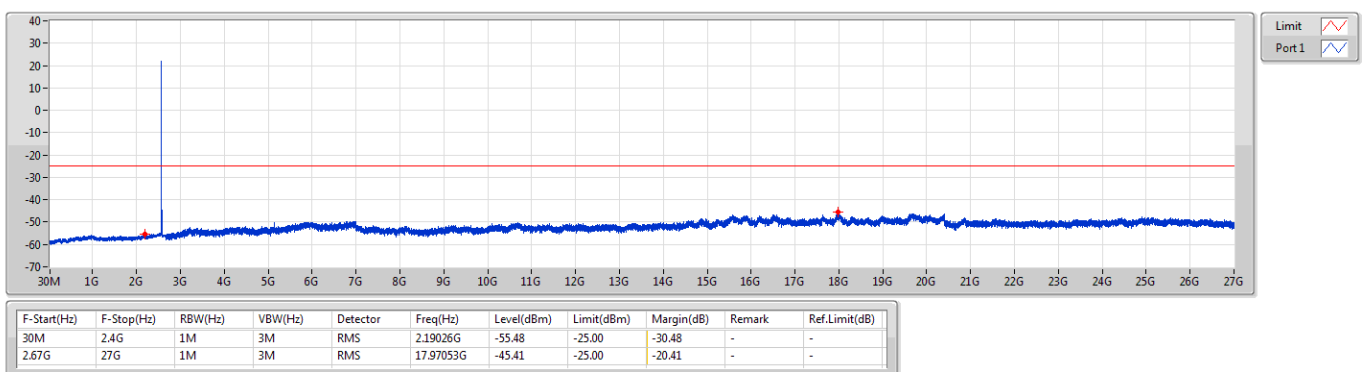
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Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

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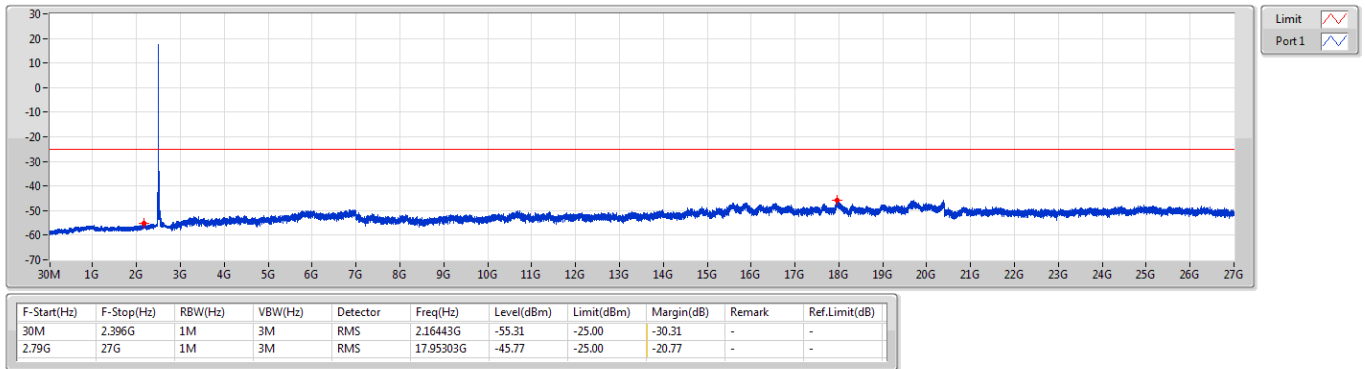
Summary

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 41	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2.79G	27G	1M	3M	RMS	17.95303G	-45.77	-25.00	-20.77	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	2.79G	27G	1M	3M	RMS	17.97043G	-45.75	-25.00	-20.75	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	2.79G	27G	1M	3M	RMS	17.9553G	-45.75	-25.00	-20.75	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	2.79G	27G	1M	3M	RMS	17.96589G	-45.66	-25.00	-20.66	-	-

Band 41_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

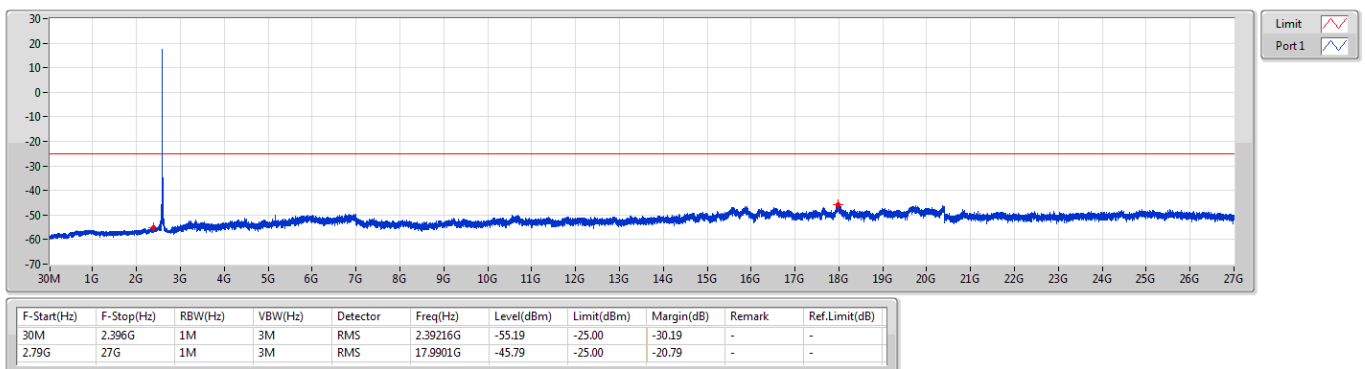
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Band 41_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

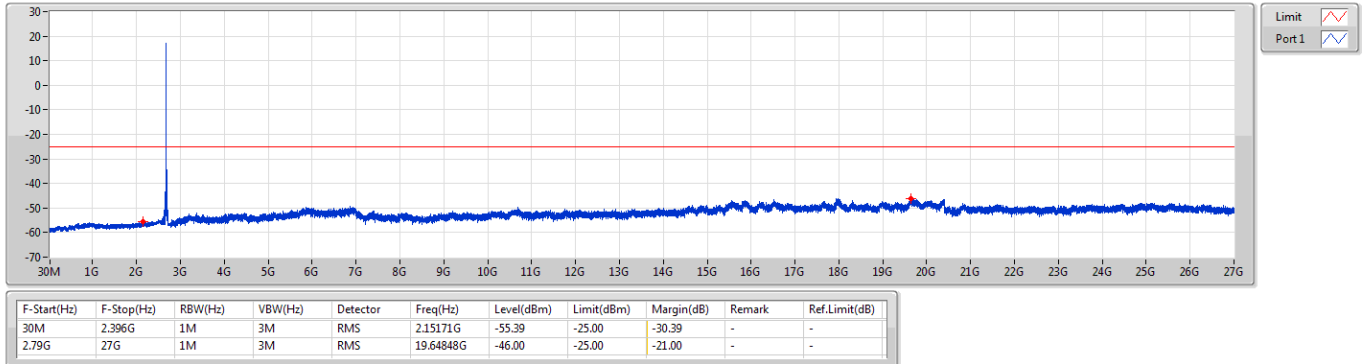
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Band 41_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

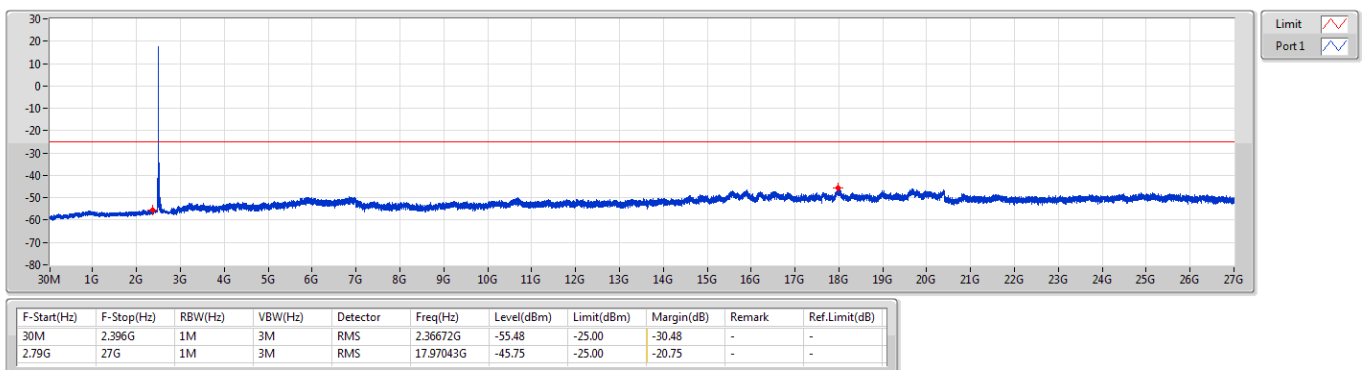
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Band 41_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

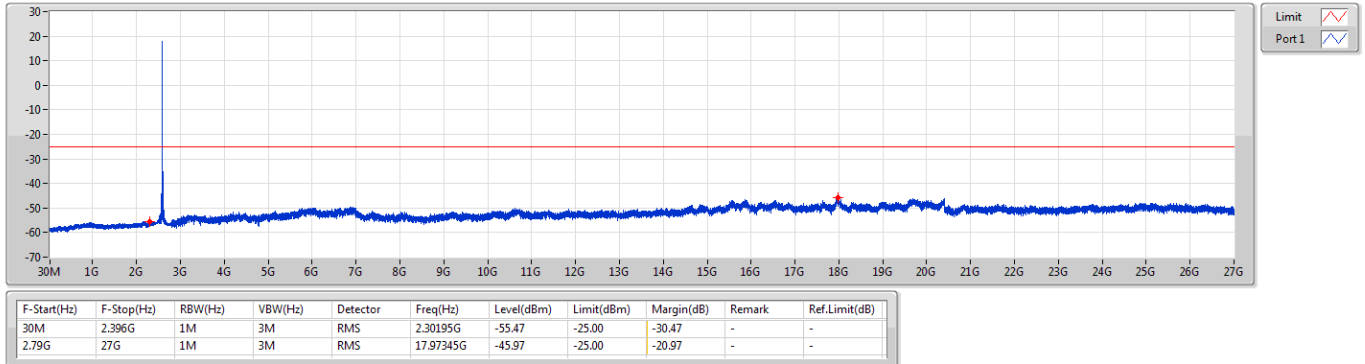
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Band 41_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

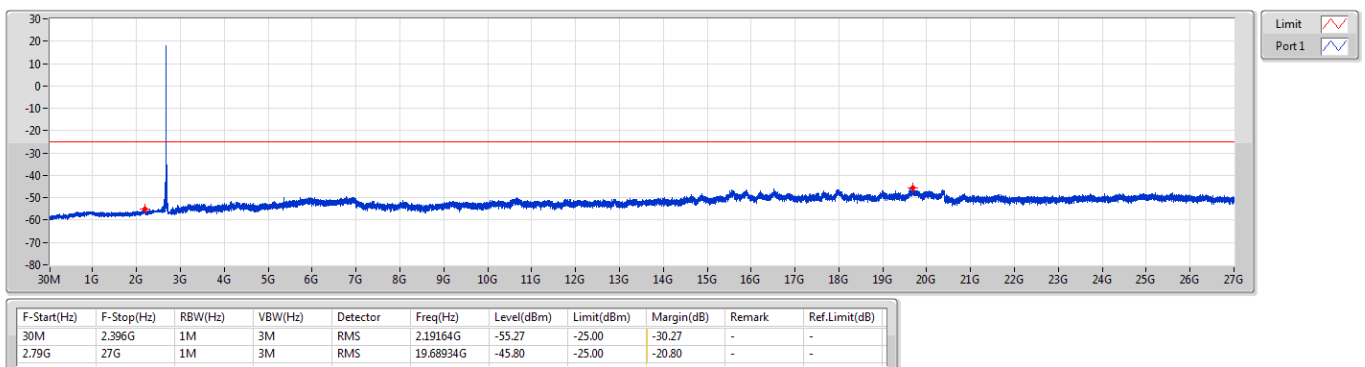
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Band 41_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

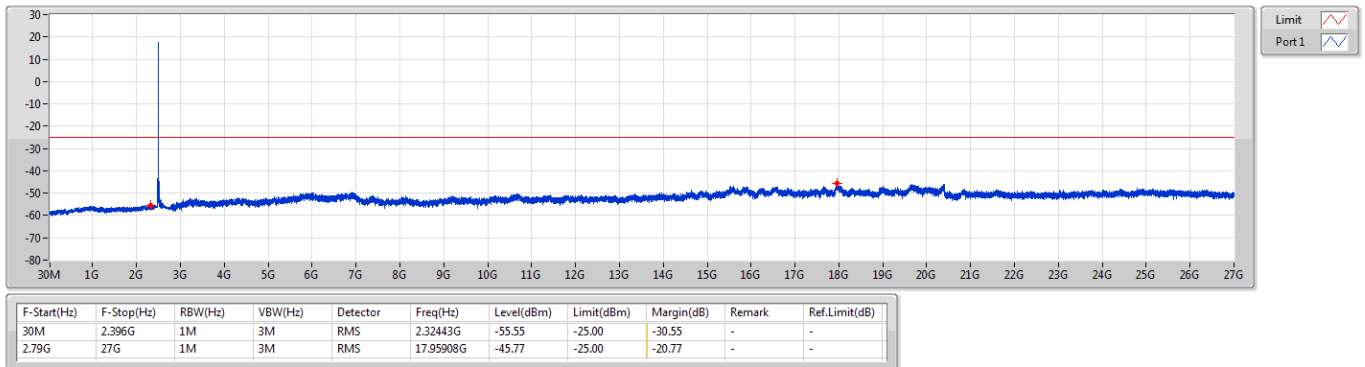
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Band 41_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Sum

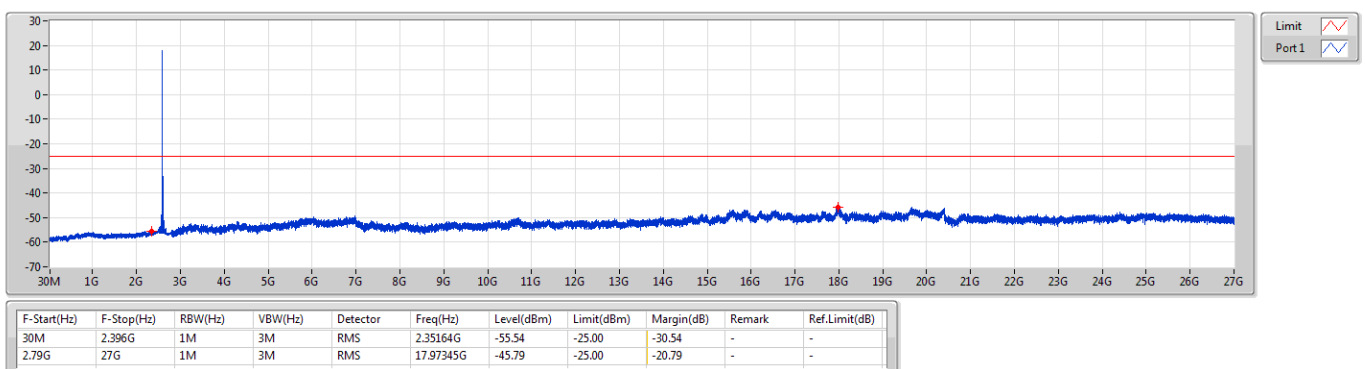
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Band 41_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Sum

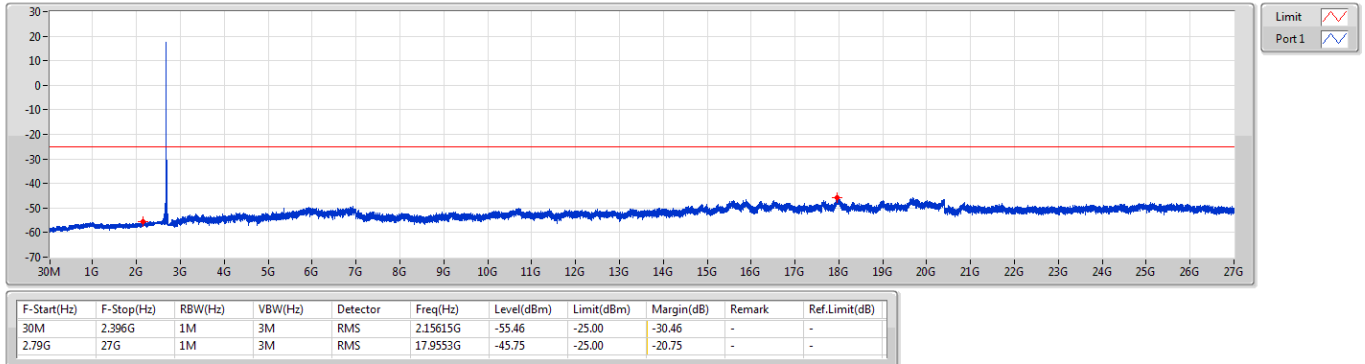
2593MHz_QPSK_RB 1



Band 41_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Sum

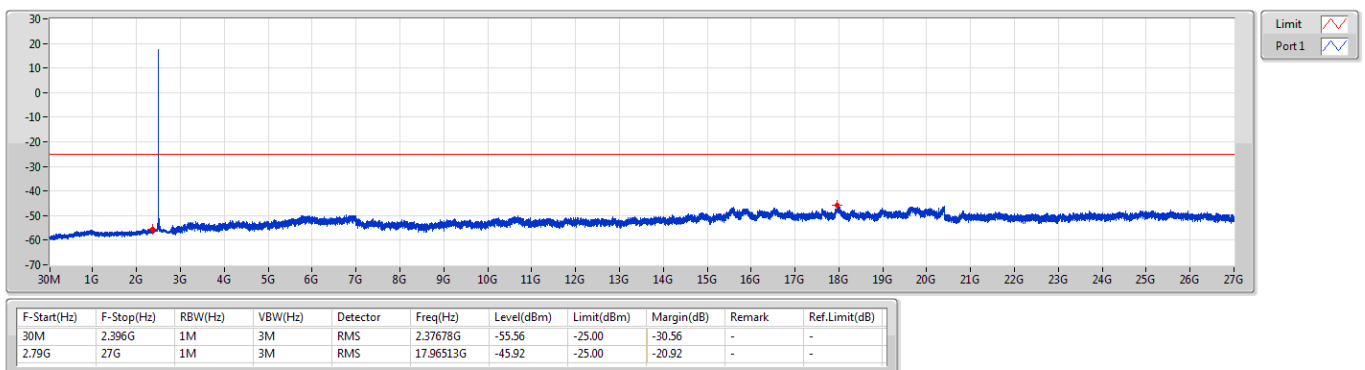
2685MHz_QPSK_RB 1



Band 41_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

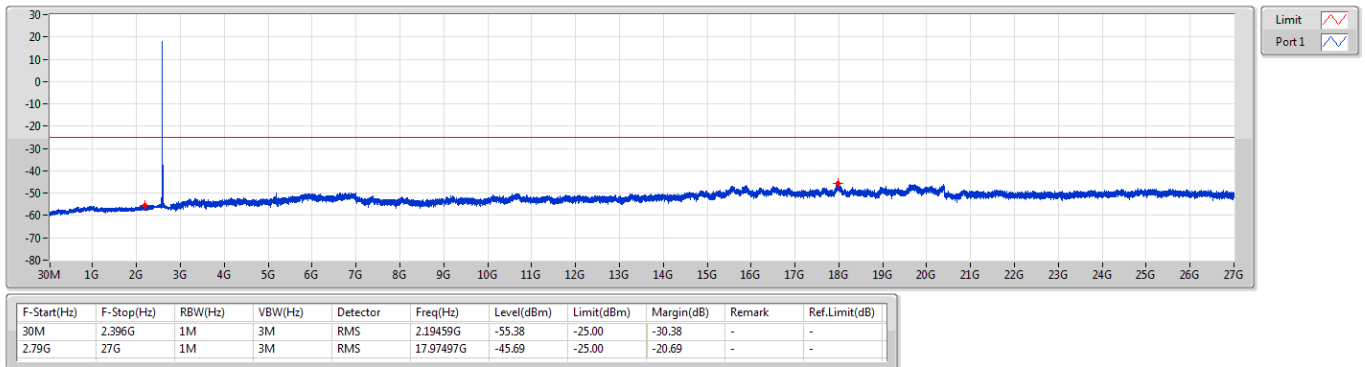
2498.5MHz_QPSK_RB 1



Band 41_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

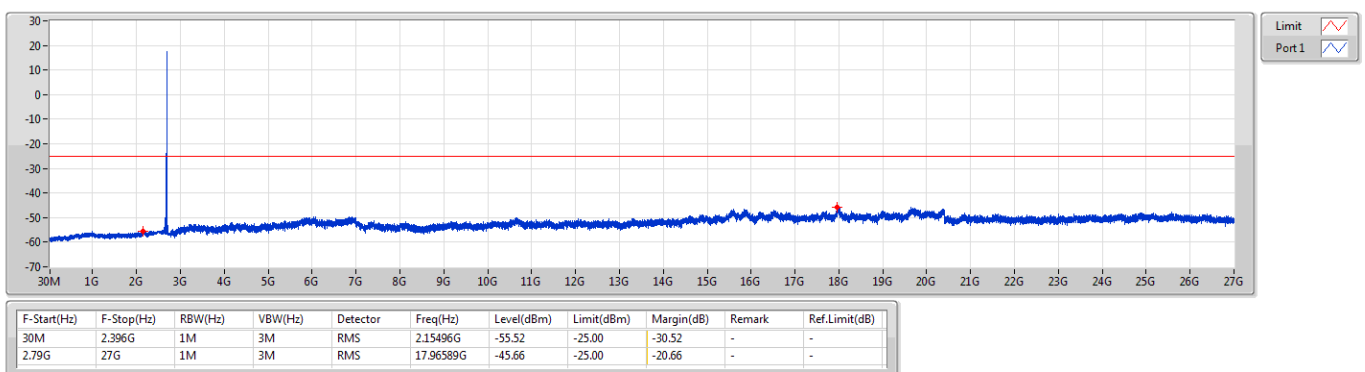
2593MHz_QPSK_RB 1



Band 41_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

2687.5MHz_QPSK_RB 1



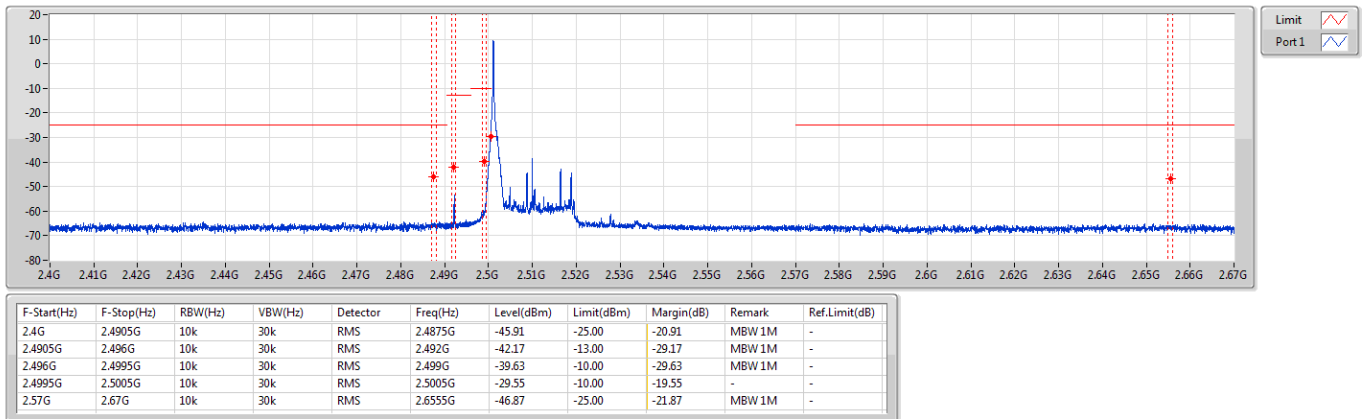
Summary

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 7	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2.4995G	2.5005G	500k	2M	RMS	2.50049G	-15.62	-10.00	-5.62	-	-
LTE_20MHz_Nss1,16QAM_1TX	Pass	2.4995G	2.5005G	500k	2M	RMS	2.5005G	-16.34	-10.00	-6.34	-	-
LTE_20MHz_Nss1,64QAM_1TX	Pass	2.4995G	2.5005G	500k	2M	RMS	2.5005G	-17.64	-10.00	-7.64	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	2.4G	2.4905G	300k	1M	RMS	2.49G	-37.79	-25.00	-12.79	MBW 1M	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	2.4G	2.4905G	300k	1M	RMS	2.49G	-38.77	-25.00	-13.77	MBW 1M	-
LTE_15MHz_Nss1,64QAM_1TX	Pass	2.4G	2.4905G	300k	1M	RMS	2.49G	-40.15	-25.00	-15.15	MBW 1M	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	2.56975G	2.57075G	200k	1M	RMS	2.56975G	-24.66	-10.00	-14.66	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	2.49925G	2.50025G	200k	1M	RMS	2.50025G	-24.83	-10.00	-14.83	-	-
LTE_10MHz_Nss1,64QAM_1TX	Pass	2.49925G	2.50025G	200k	1M	RMS	2.50024G	-24.28	-10.00	-14.28	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	2.5699G	2.5709G	10k	30k	RMS	2.5699G	-20.74	-10.00	-10.74	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	2.5699G	2.5709G	10k	30k	RMS	2.5699G	-20.99	-10.00	-10.99	-	-
LTE_5MHz_Nss1,64QAM_1TX	Pass	2.5699G	2.5709G	10k	30k	RMS	2.5699G	-22.21	-10.00	-12.21	-	-

Band 7_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

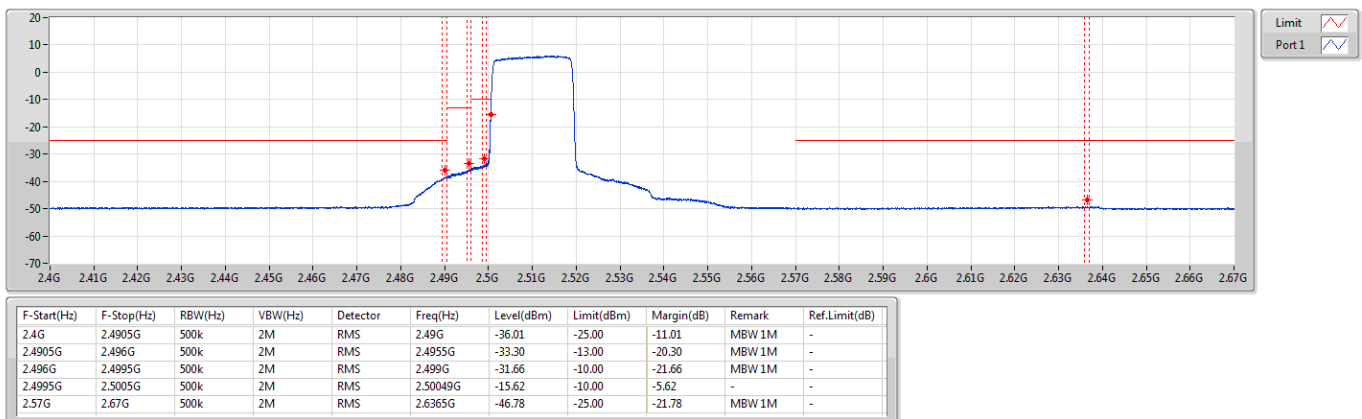
2510MHz_QPSK_RB 1,#RB 0



Band 7_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

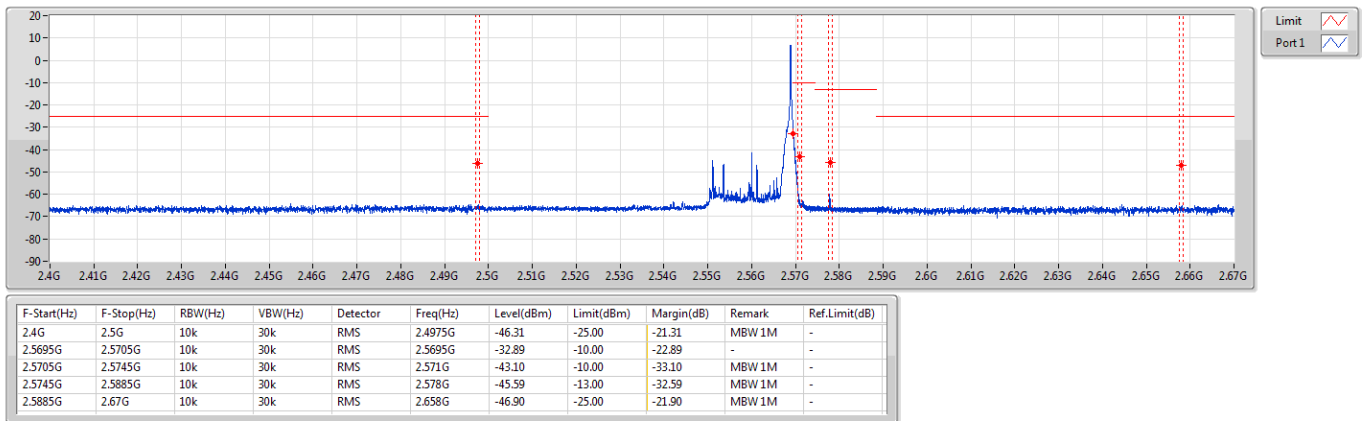
2510MHz_QPSK_RB 100,#RB 0



Band 7_LTE_20MHz_Nss1,QPSK_1TX

CSE-TX-Sum

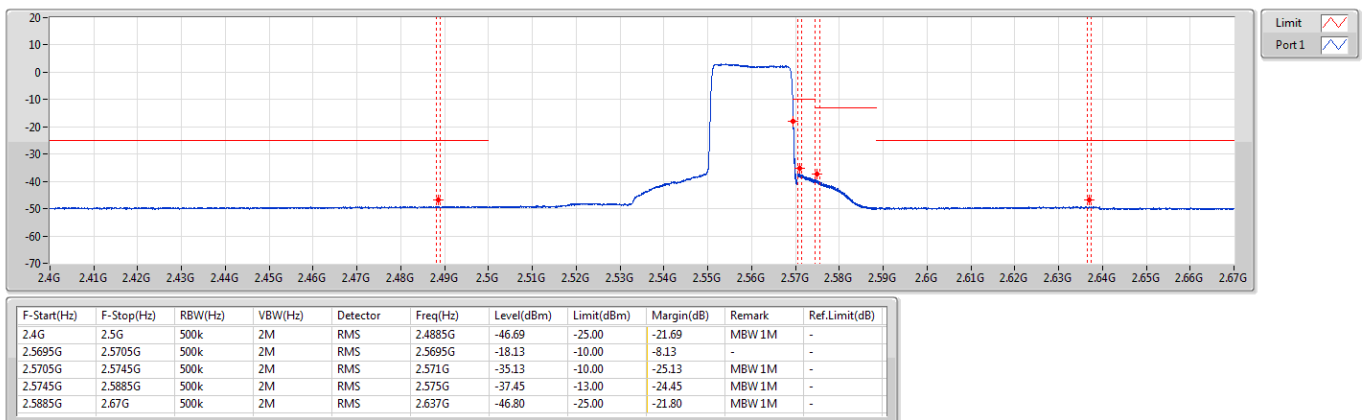
2560MHz_QPSK_RB 1,#RB 99



Band 7_LTE_20MHz_Nss1,QPSK_1TX

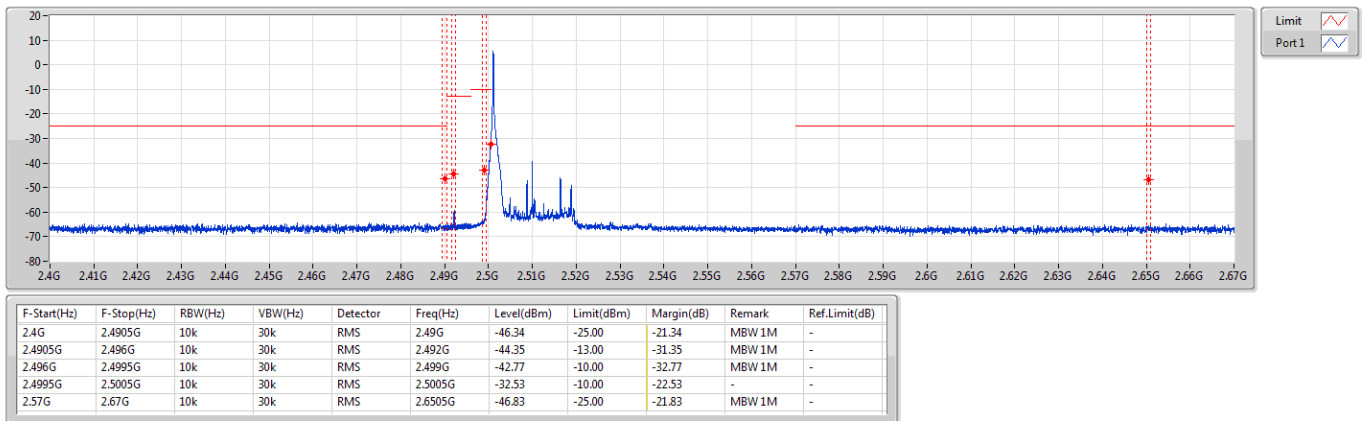
CSE-TX-Sum

2560MHz_QPSK_RB 100,#RB 0



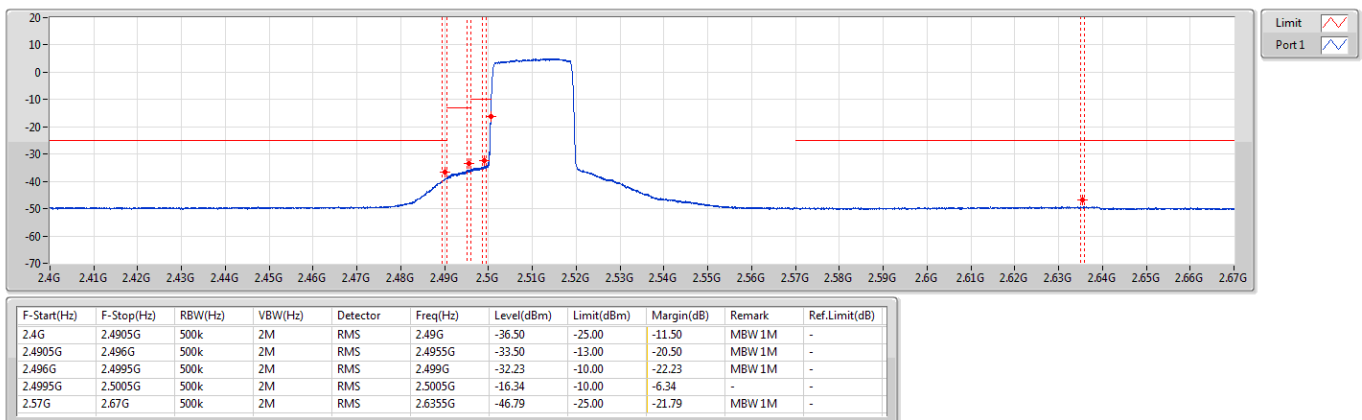
Band 7_LTE_20MHz_Nss1,16QAMCS_1TX
2510MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



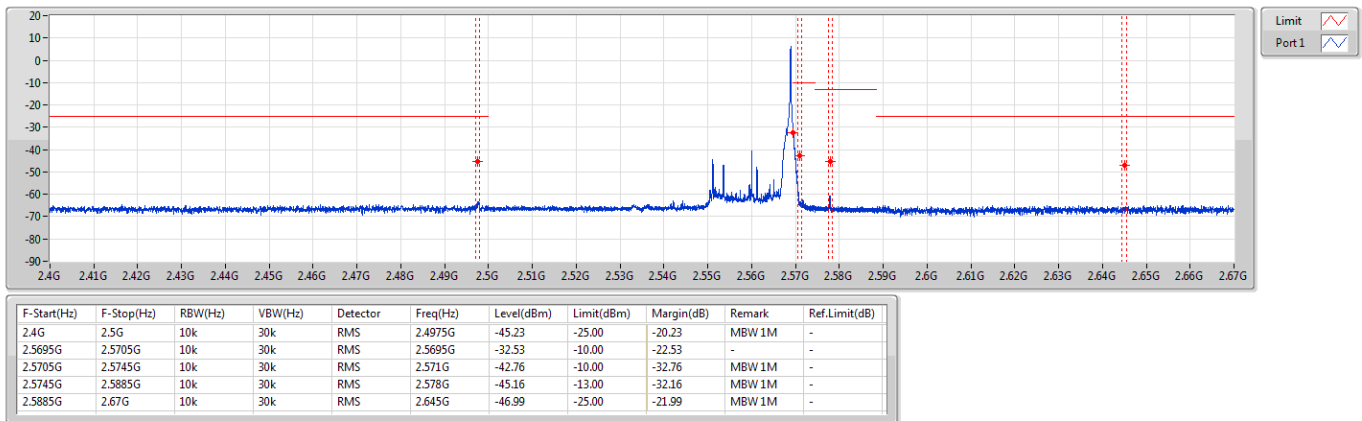
Band 7_LTE_20MHz_Nss1,16QAMCS_1TX
2510MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



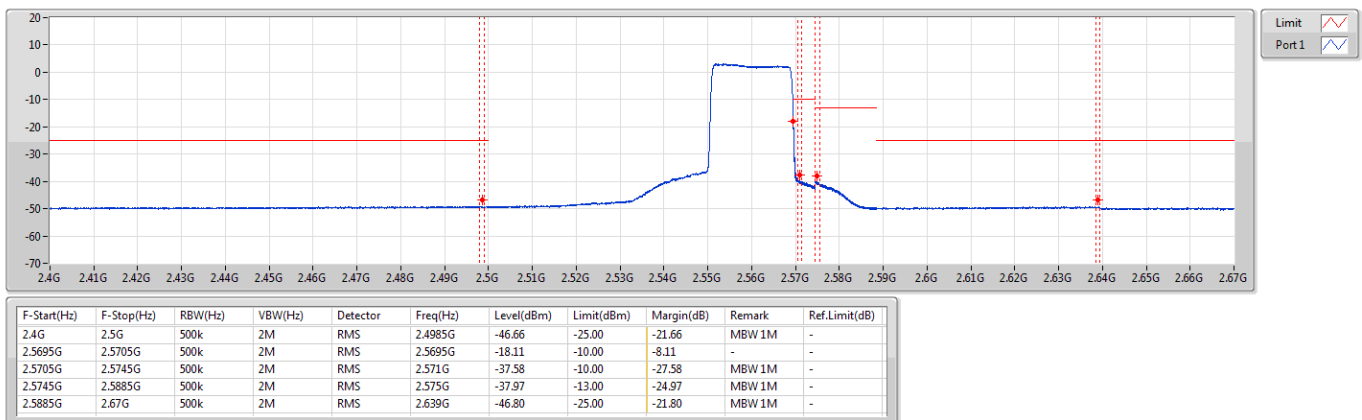
Band 7_LTE_20MHz_Nss1,16QAMCS_1TX
2560MHz_16QAM_RB 1,#RB 99

CSE-TX-Sum



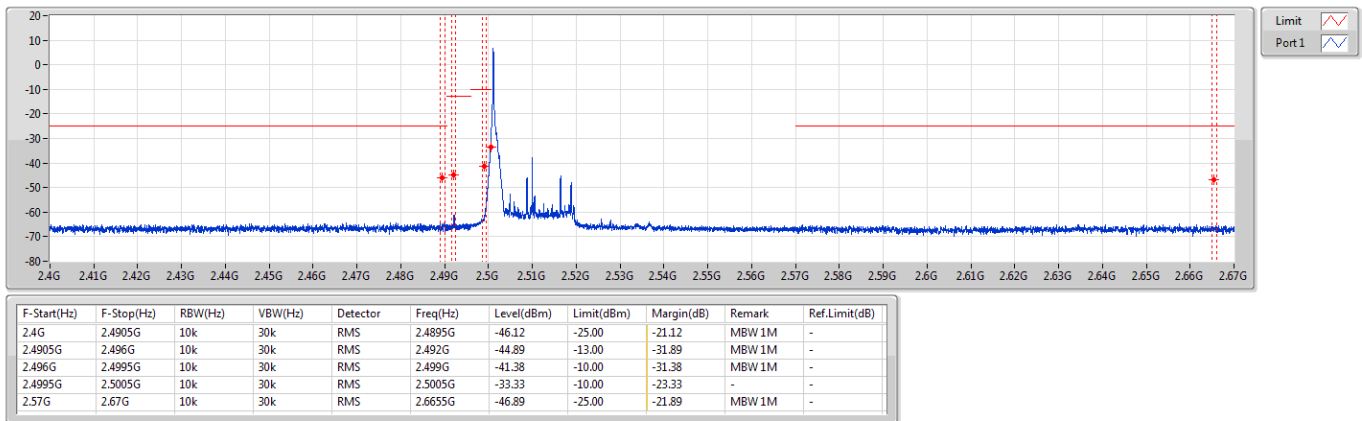
Band 7_LTE_20MHz_Nss1,16QAMCS_1TX
2560MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



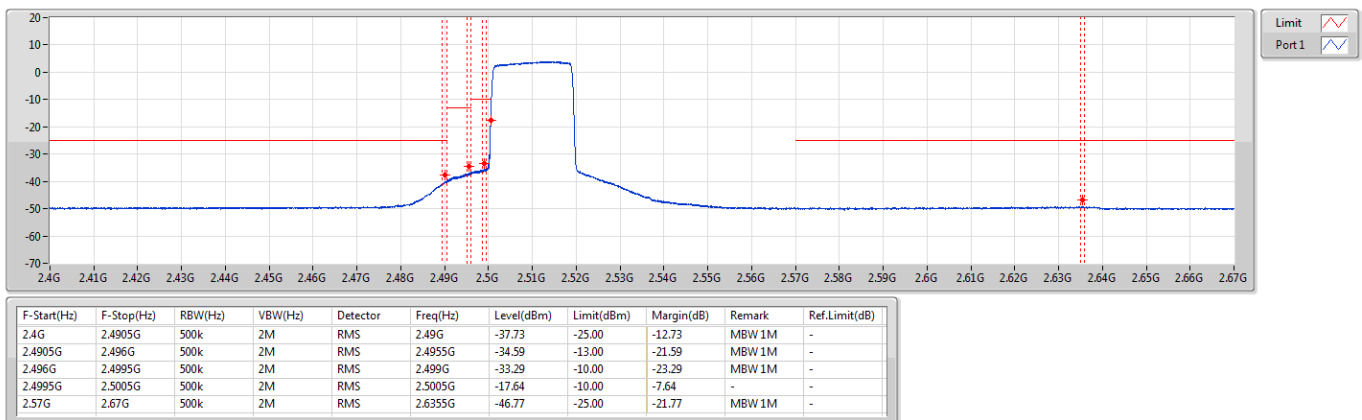
Band 7_LTE_20MHz_Nss1,64QAMCS_1TX
2510MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



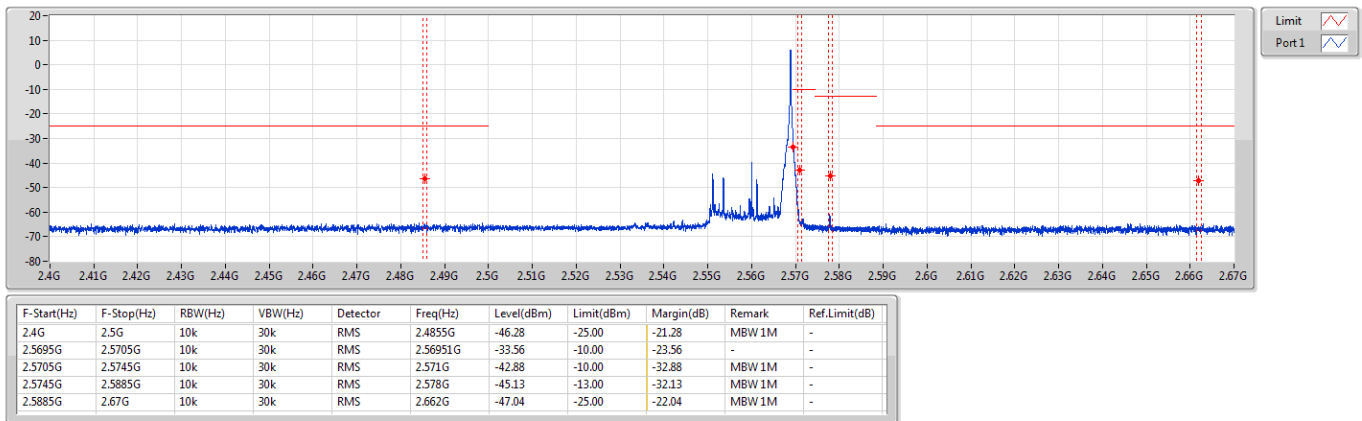
Band 7_LTE_20MHz_Nss1,64QAMCS_1TX
2510MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



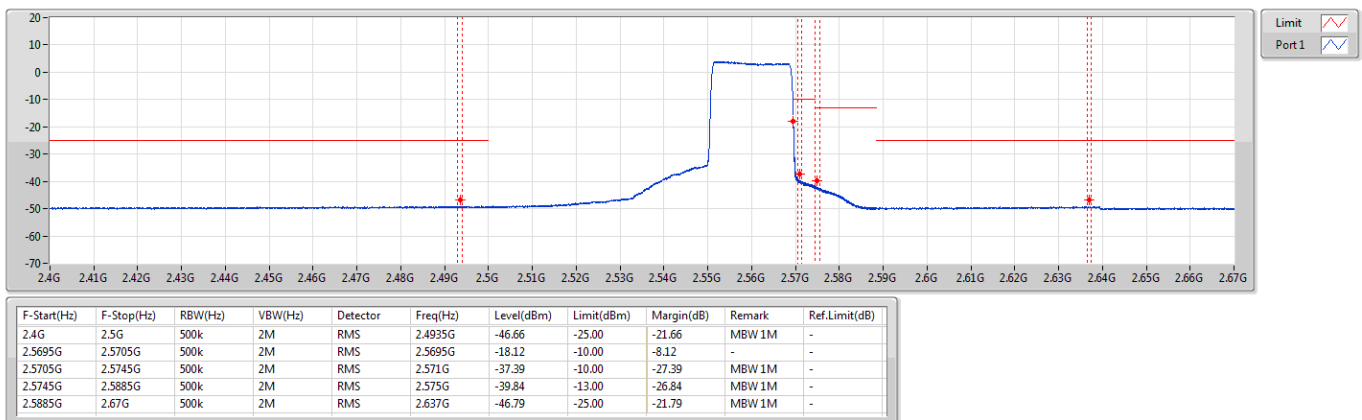
Band 7_LTE_20MHz_Nss1,64QAMCS_1TX
2560MHz_64QAM_RB 1,#RB 99

CSE-TX-Sum



Band 7_LTE_20MHz_Nss1,64QAMCS_1TX
2560MHz_64QAM_RB 100,#RB 0

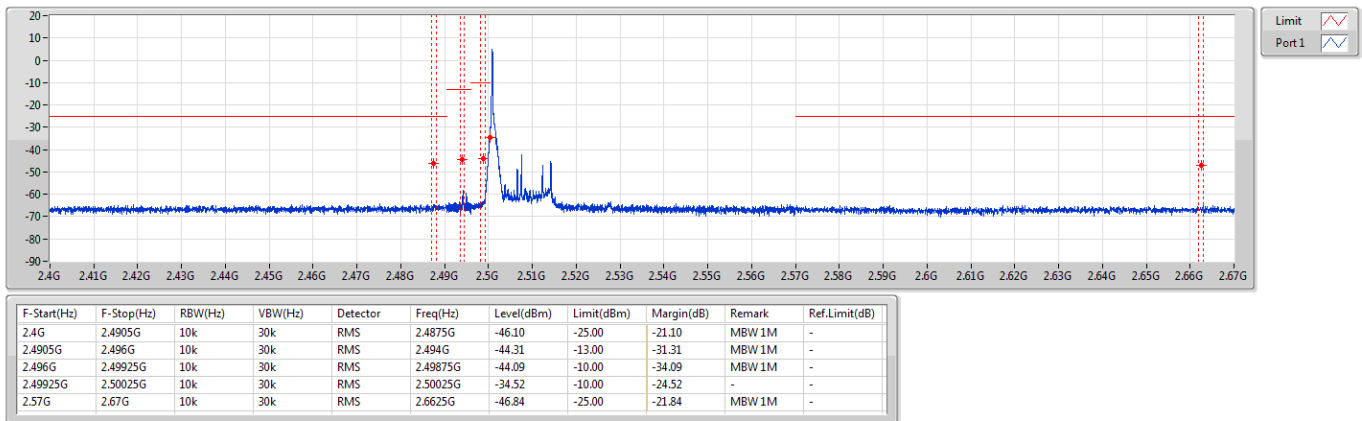
CSE-TX-Sum



Band 7_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

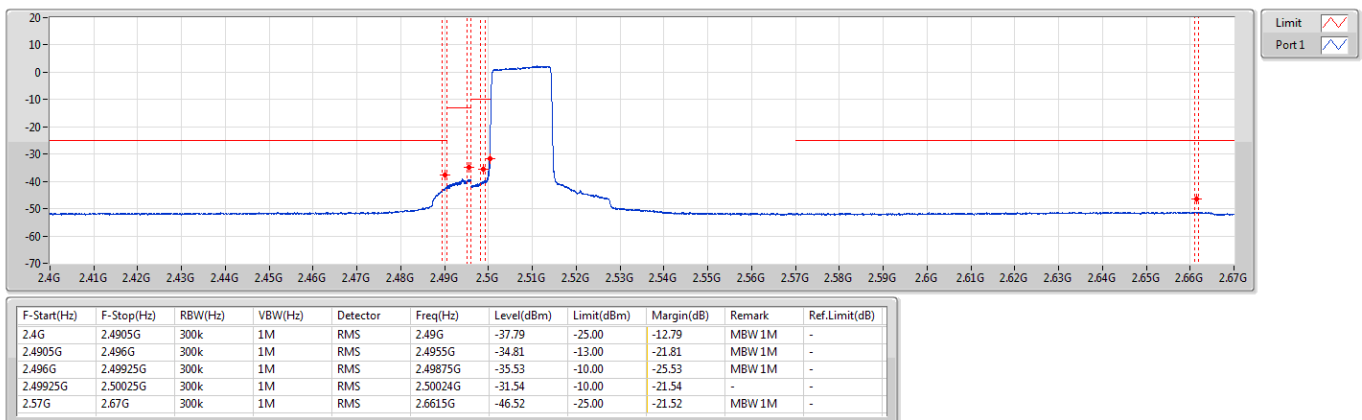
2507.5MHz_QPSK_RB 1,#RB 0



Band 7_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

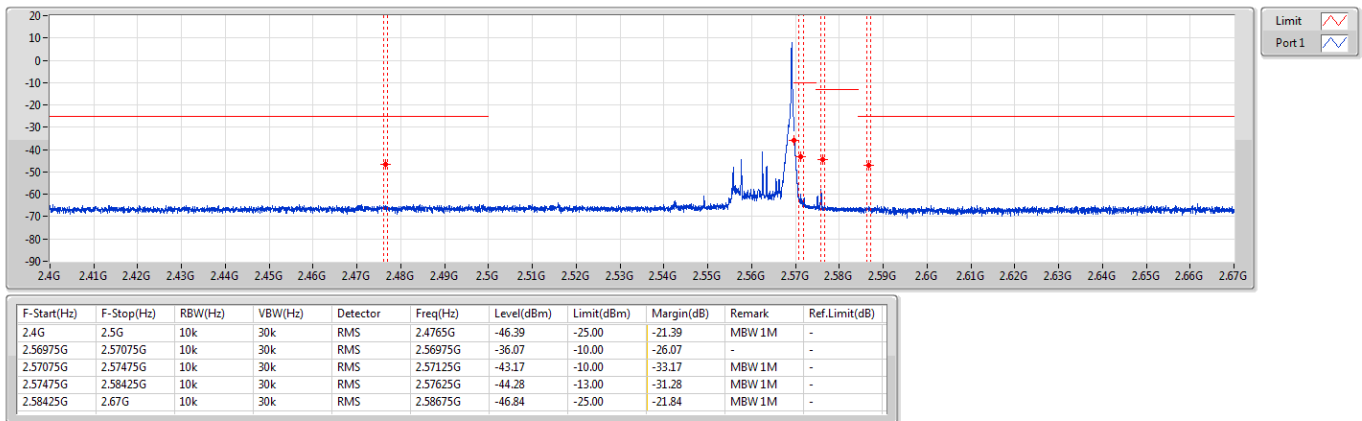
2507.5MHz_QPSK_RB 75,#RB 0



Band 7_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

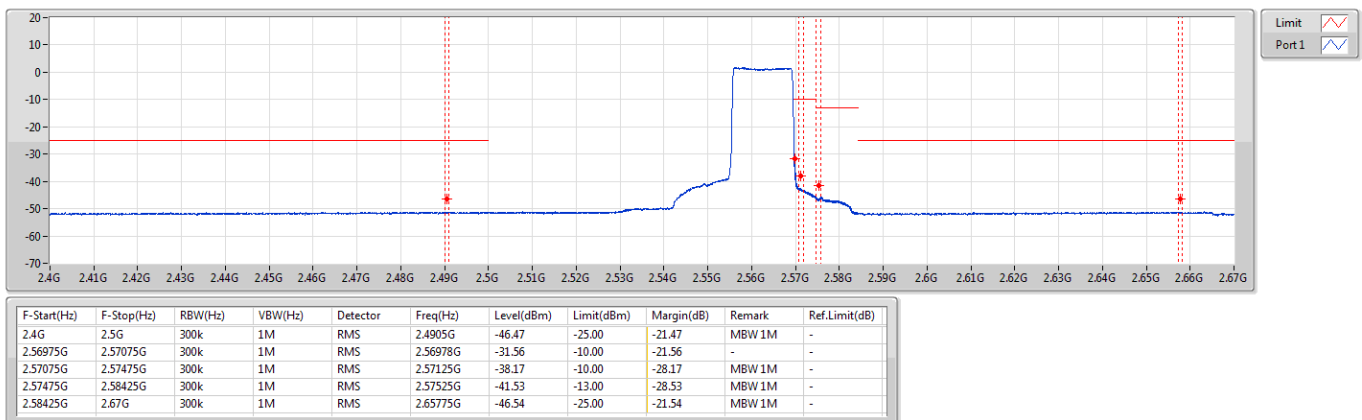
2562.5MHz_QPSK_RB 1,#RB 74



Band 7_LTE_15MHz_Nss1,QPSK_1TX

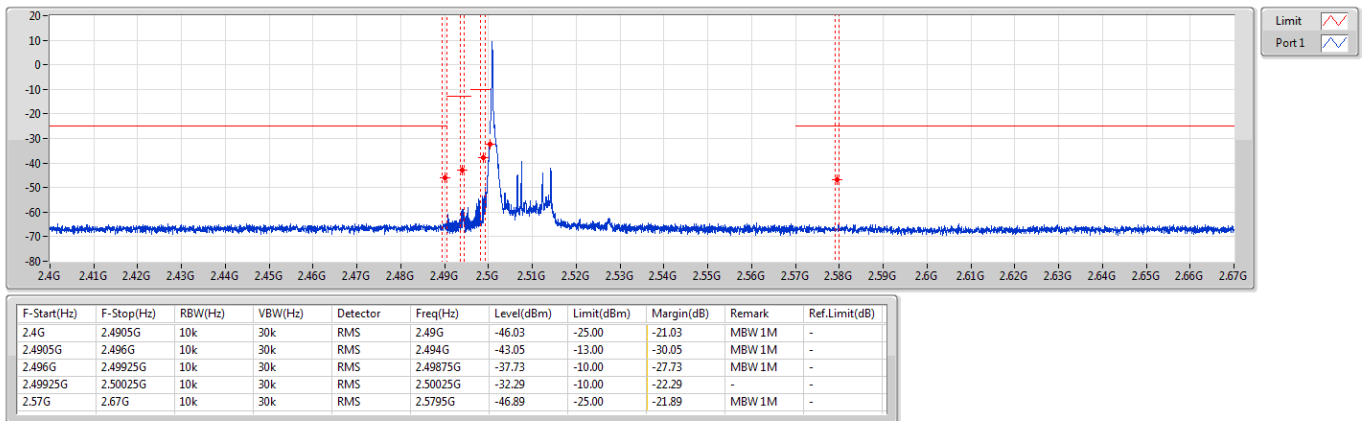
CSE-TX-Sum

2562.5MHz_QPSK_RB 75,#RB 0



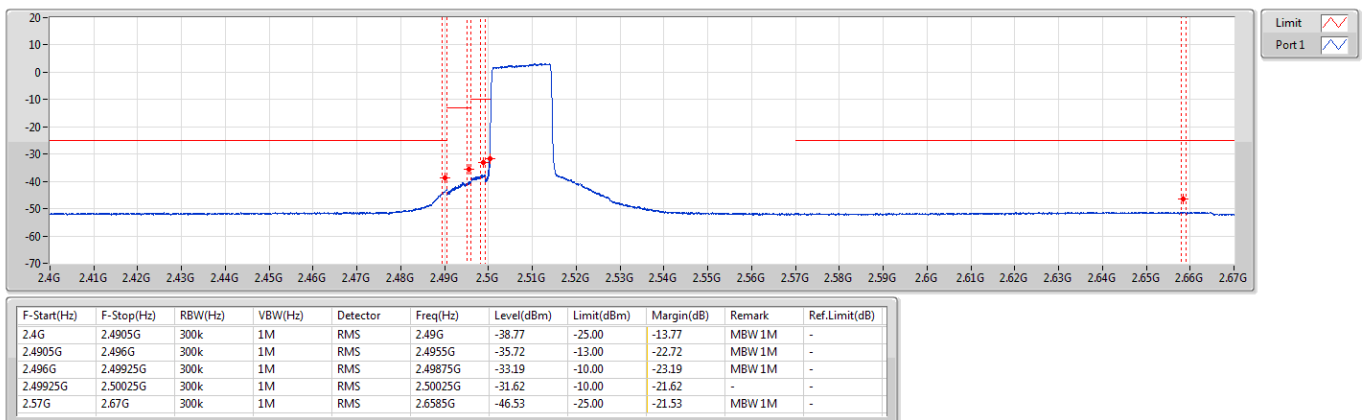
Band 7_LTE_15MHz_Nss1,16QAMCS_1TX
2507.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



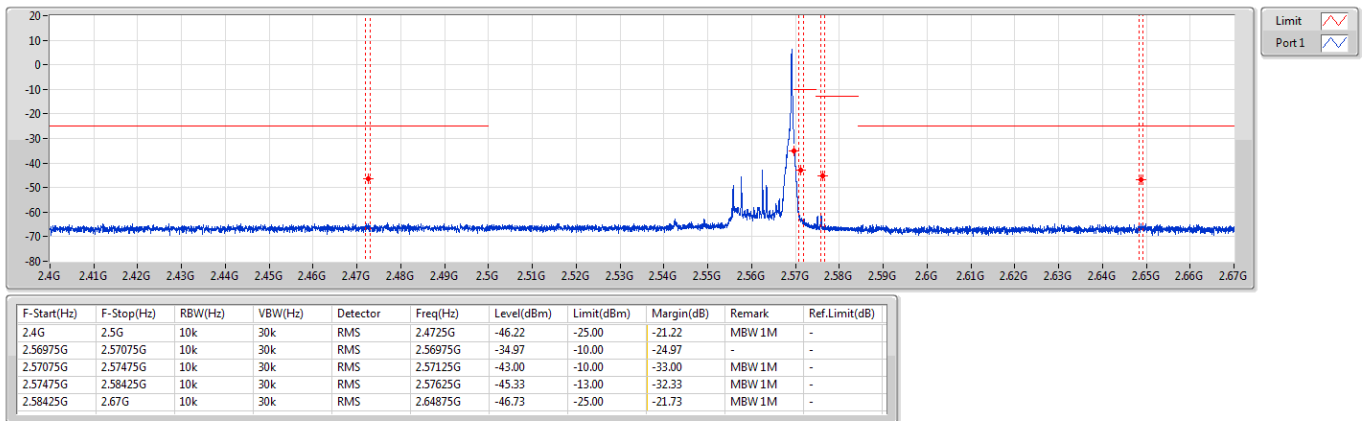
Band 7_LTE_15MHz_Nss1,16QAMCS_1TX
2507.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



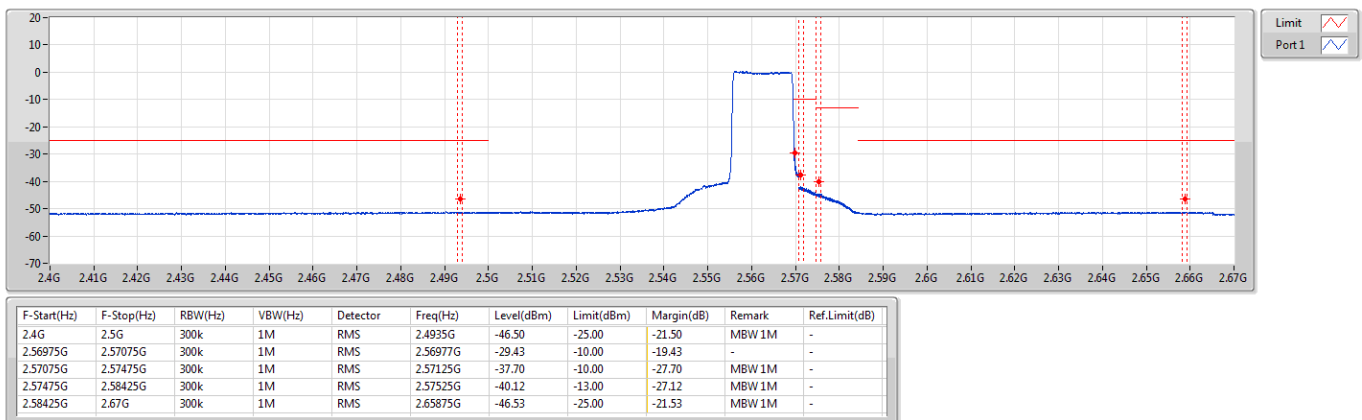
Band 7_LTE_15MHz_Nss1,16QAMCS_1TX
2562.5MHz_16QAM_RB 1,#RB 74

CSE-TX-Sum



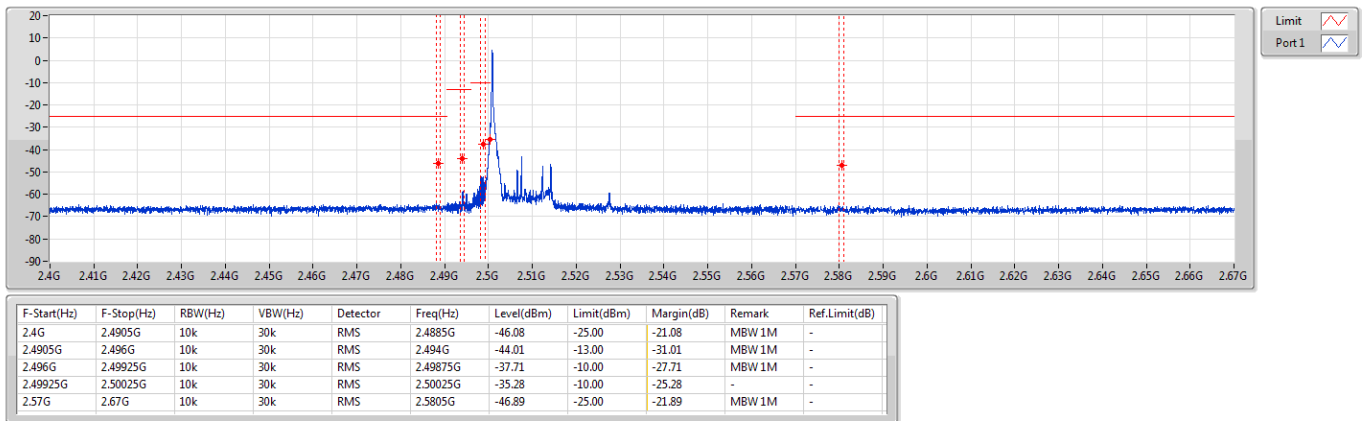
Band 7_LTE_15MHz_Nss1,16QAMCS_1TX
2562.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



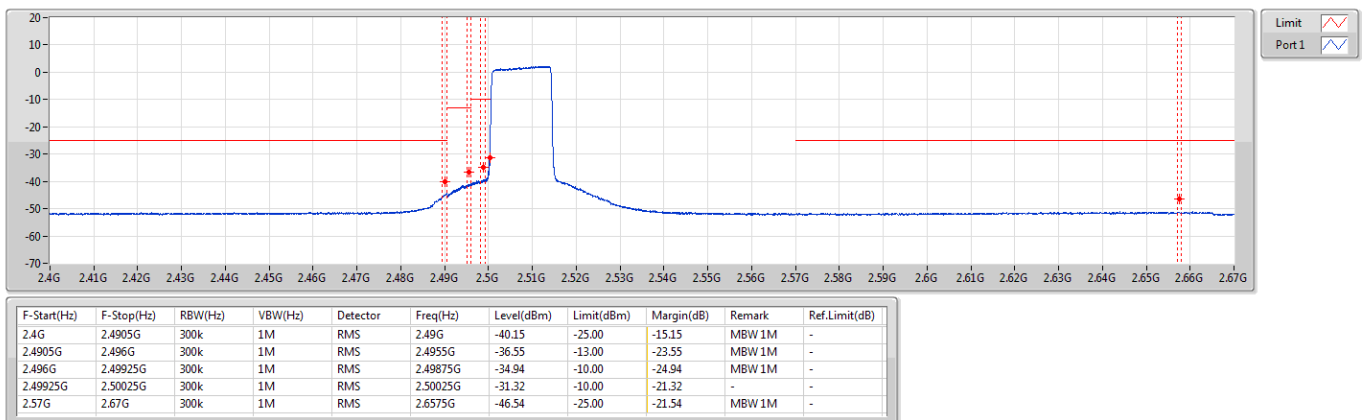
Band 7_LTE_15MHz_Nss1,64QAMCS_1TX
2507.5MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



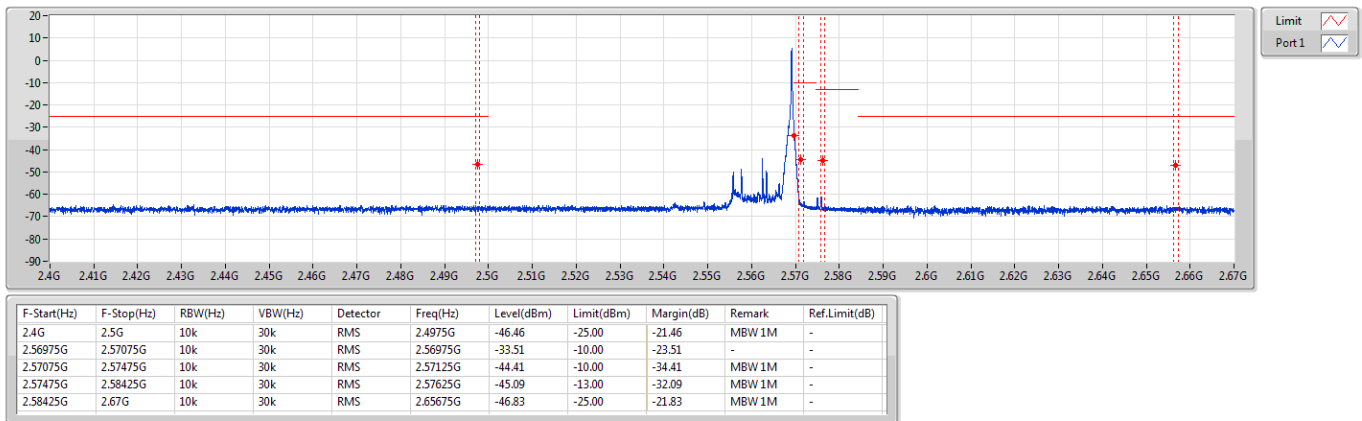
Band 7_LTE_15MHz_Nss1,64QAMCS_1TX
2507.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



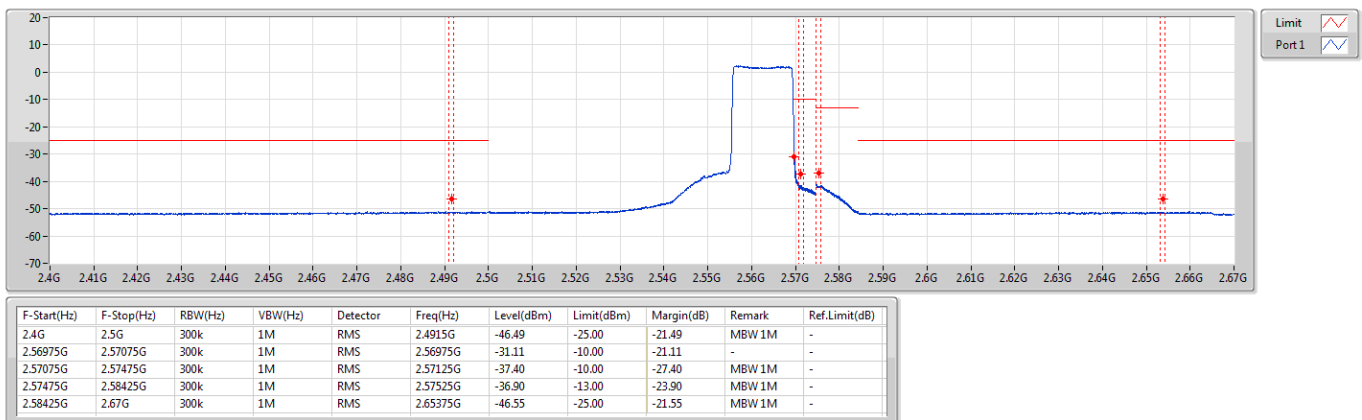
Band 7_LTE_15MHz_Nss1,64QAMCS_1TX
2562.5MHz_64QAM_RB 1,#RB 74

CSE-TX-Sum



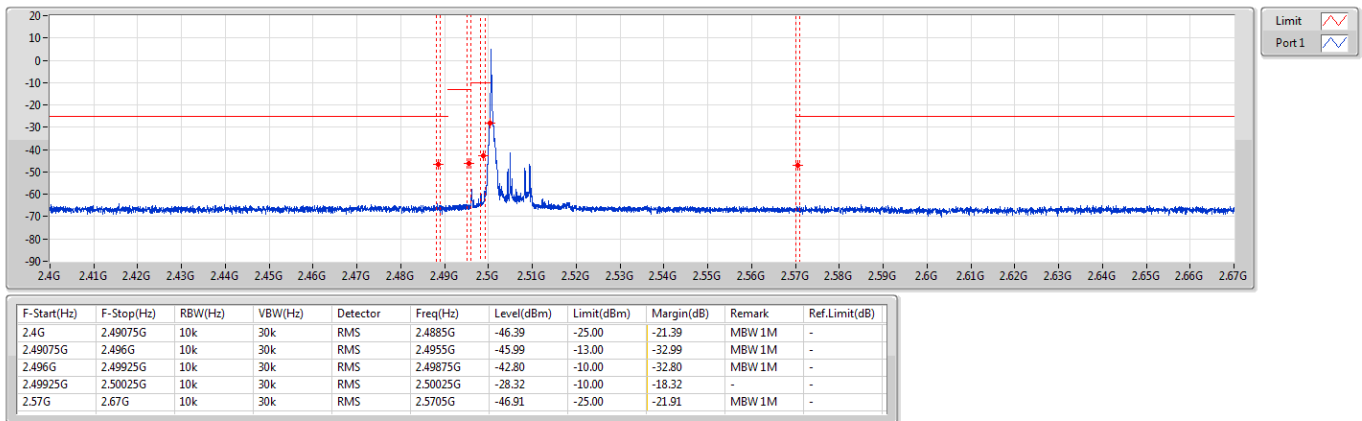
Band 7_LTE_15MHz_Nss1,64QAMCS_1TX
2562.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



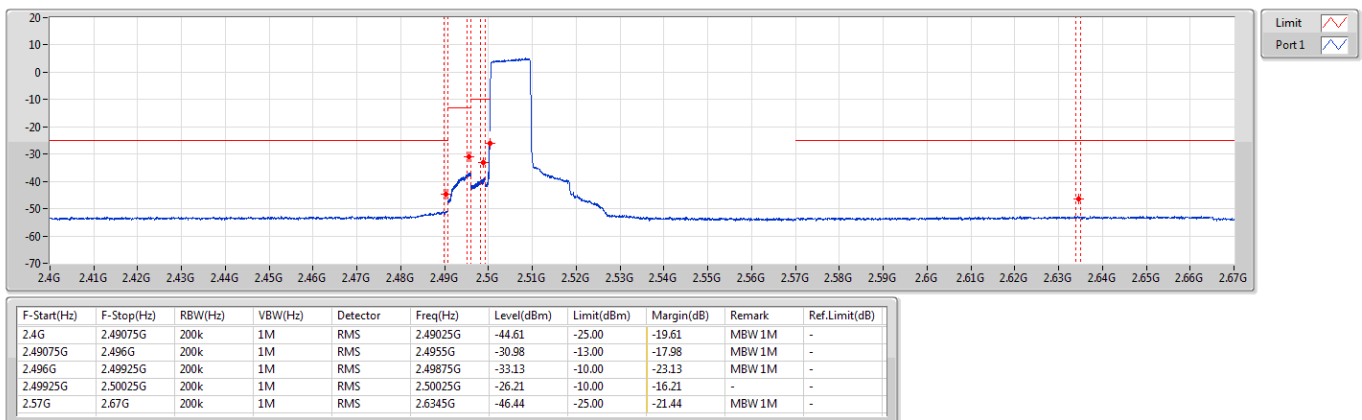
Band 7_LTE_10MHz_Nss1,QPSK_1TX
2505MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



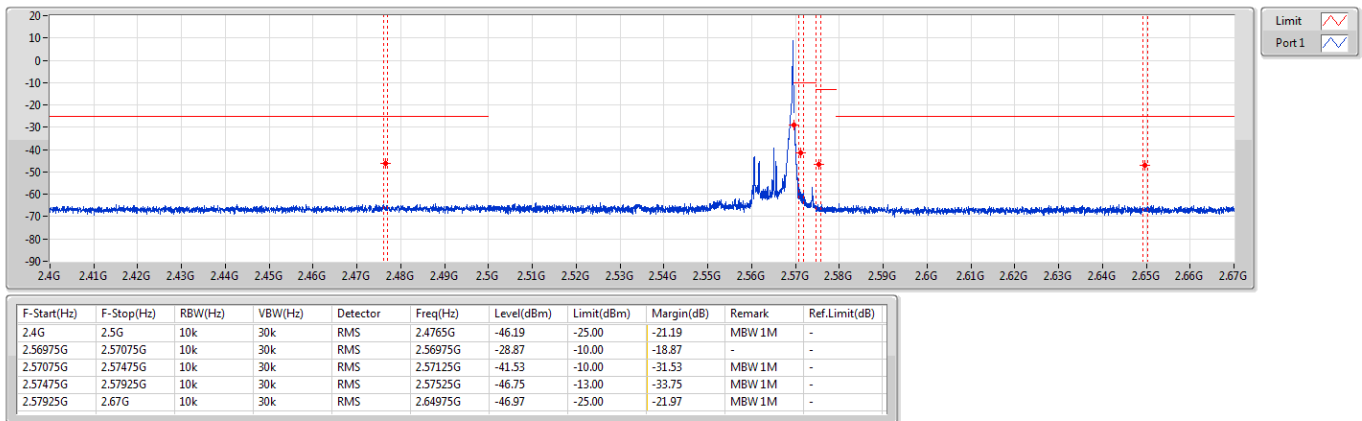
Band 7_LTE_10MHz_Nss1,QPSK_1TX
2505MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



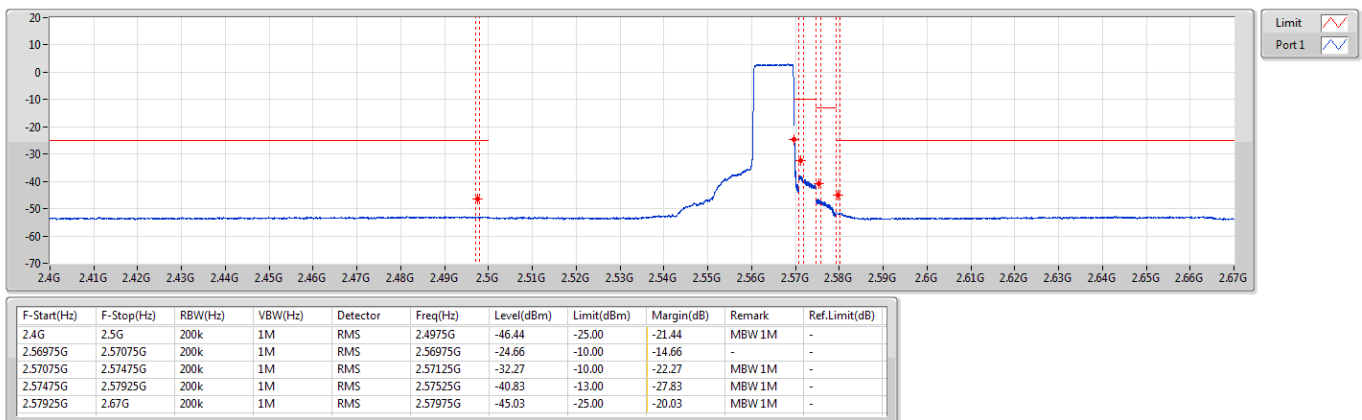
Band 7_LTE_10MHz_Nss1,QPSK_1TX
2565MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



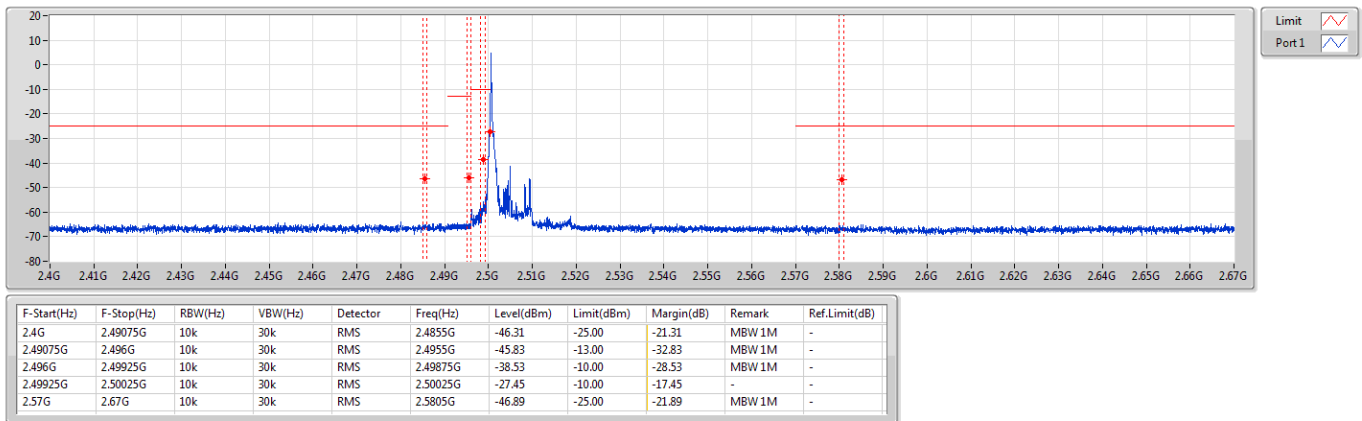
Band 7_LTE_10MHz_Nss1,QPSK_1TX
2565MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



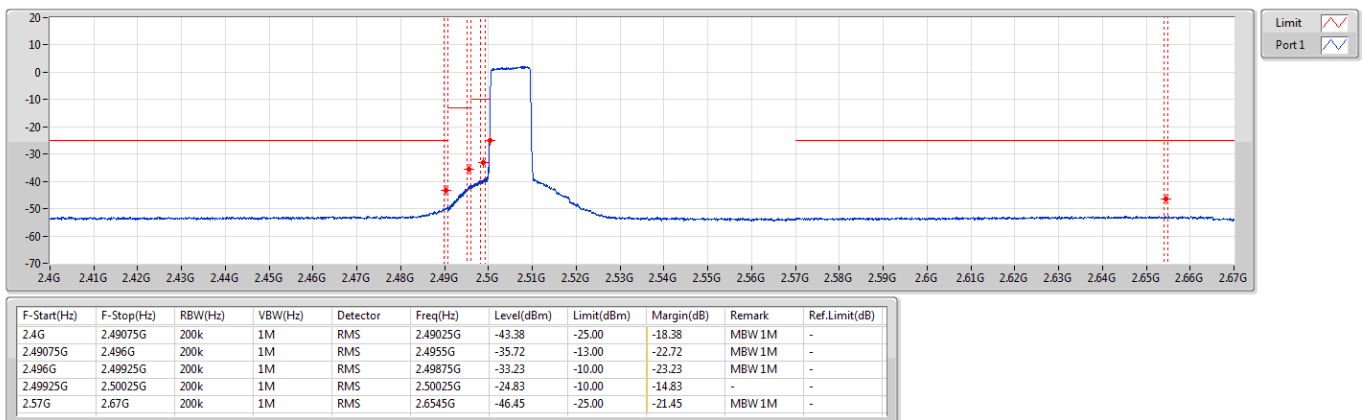
Band 7_LTE_10MHz_Nss1,16QAMCS_1TX
2505MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



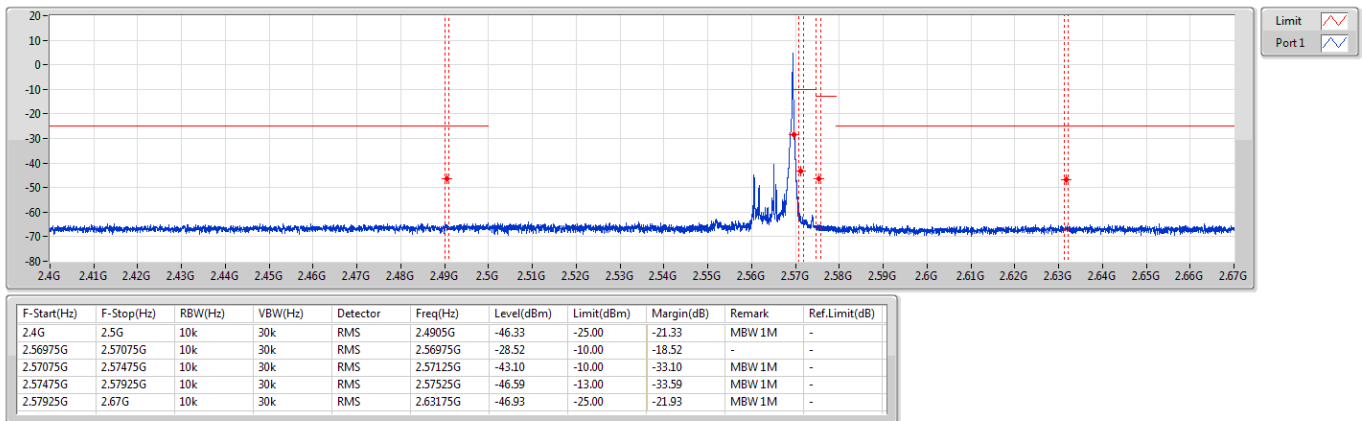
Band 7_LTE_10MHz_Nss1,16QAMCS_1TX
2505MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



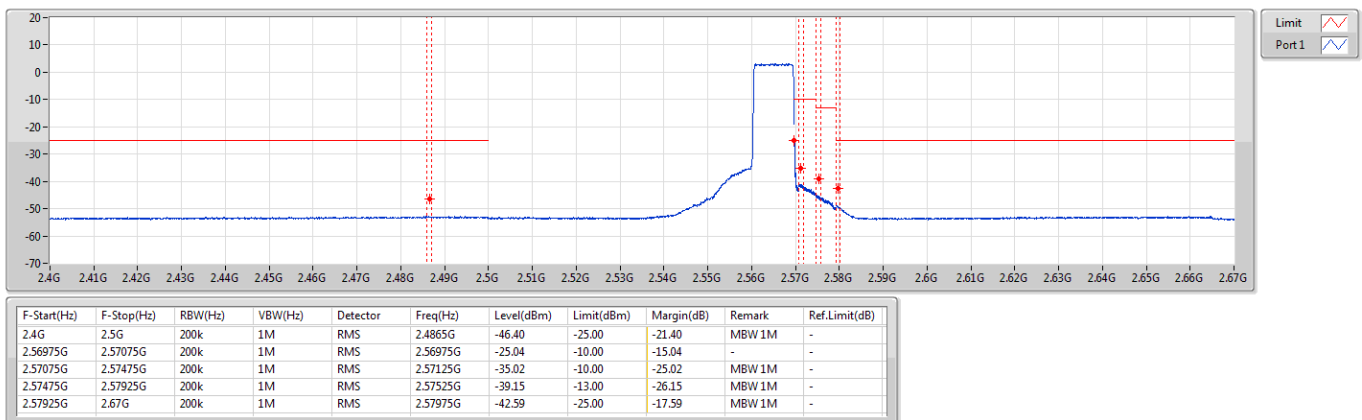
Band 7_LTE_10MHz_Nss1,16QAMCS_1TX
2565MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



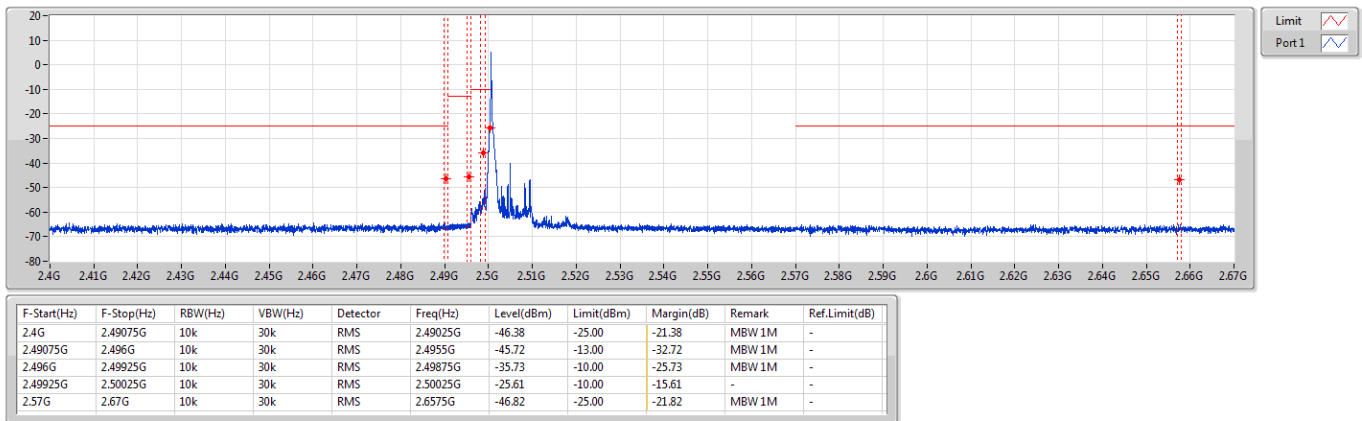
Band 7_LTE_10MHz_Nss1,16QAMCS_1TX
2565MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



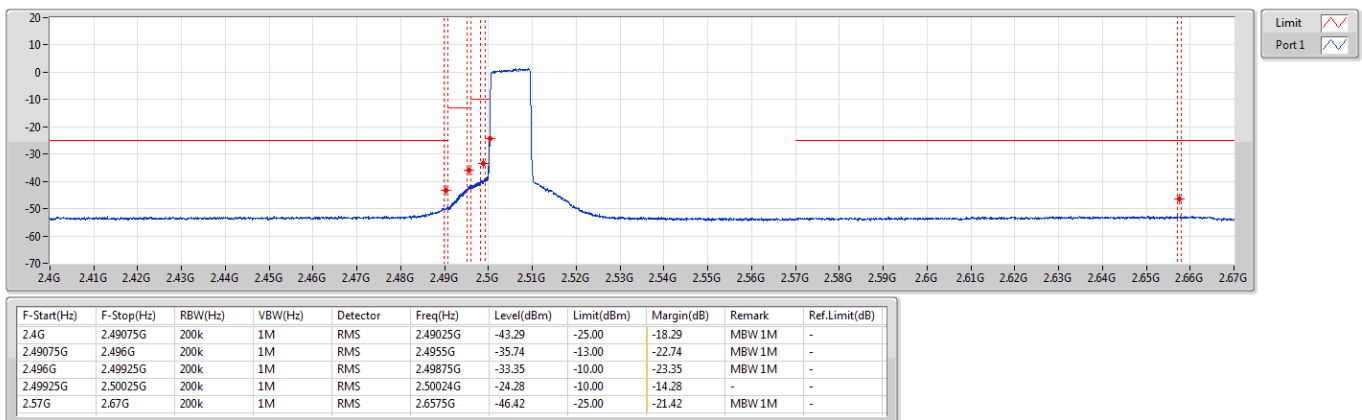
Band 7_LTE_10MHz_Nss1,64QAMCS_1TX
2505MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



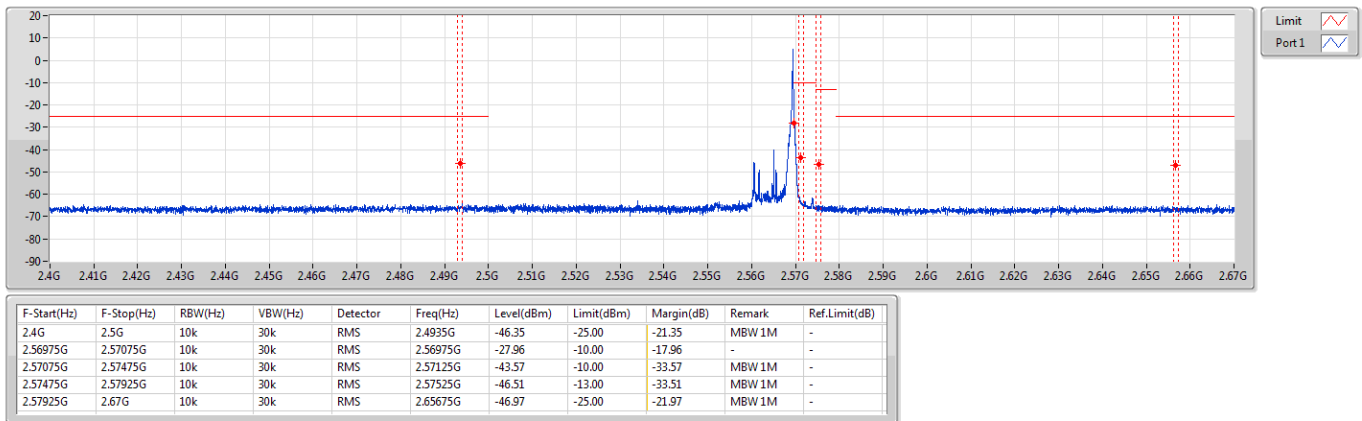
Band 7_LTE_10MHz_Nss1,64QAMCS_1TX
2505MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



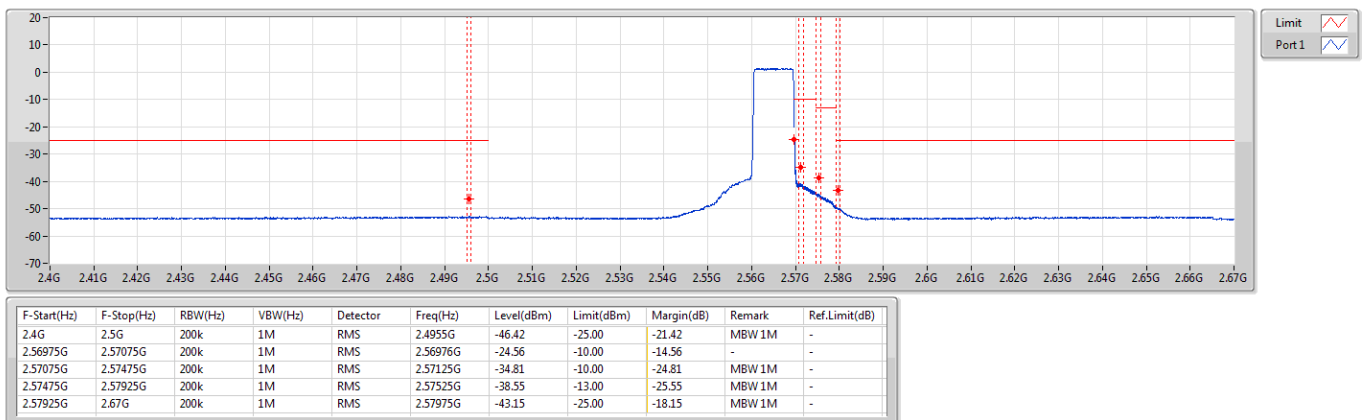
Band 7_LTE_10MHz_Nss1,64QAMCS_1TX
2565MHz_64QAM_RB 1,#RB 49

CSE-TX-Sum



Band 7_LTE_10MHz_Nss1,64QAMCS_1TX
2565MHz_64QAM_RB 50,#RB 0

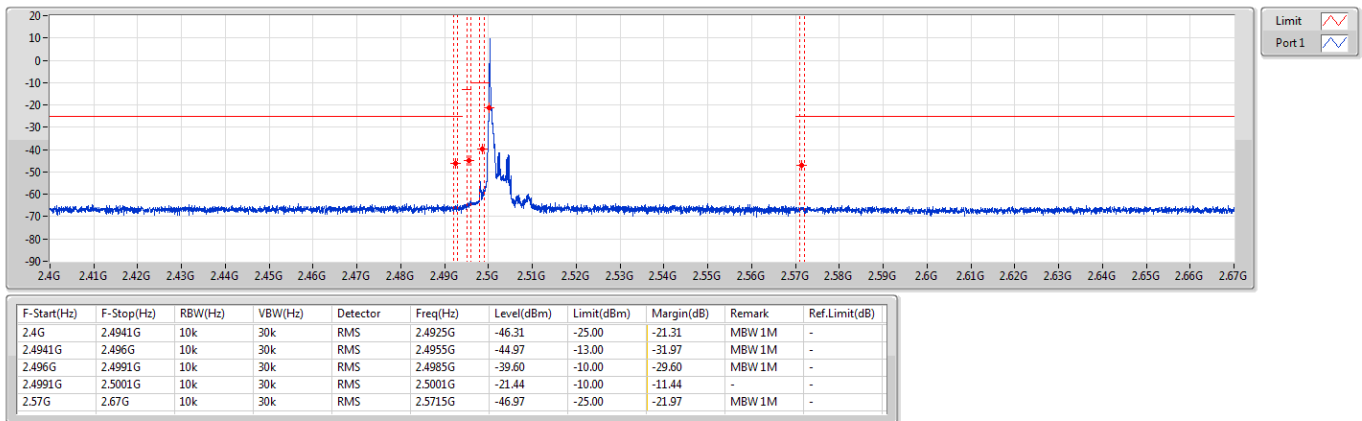
CSE-TX-Sum



Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

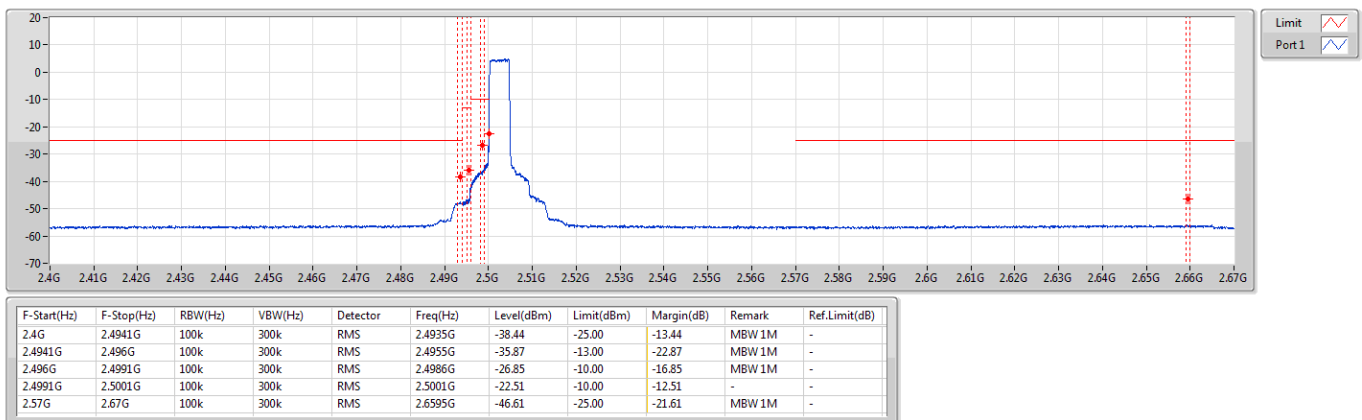
2502.5MHz_QPSK_RB 1,#RB 0



Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

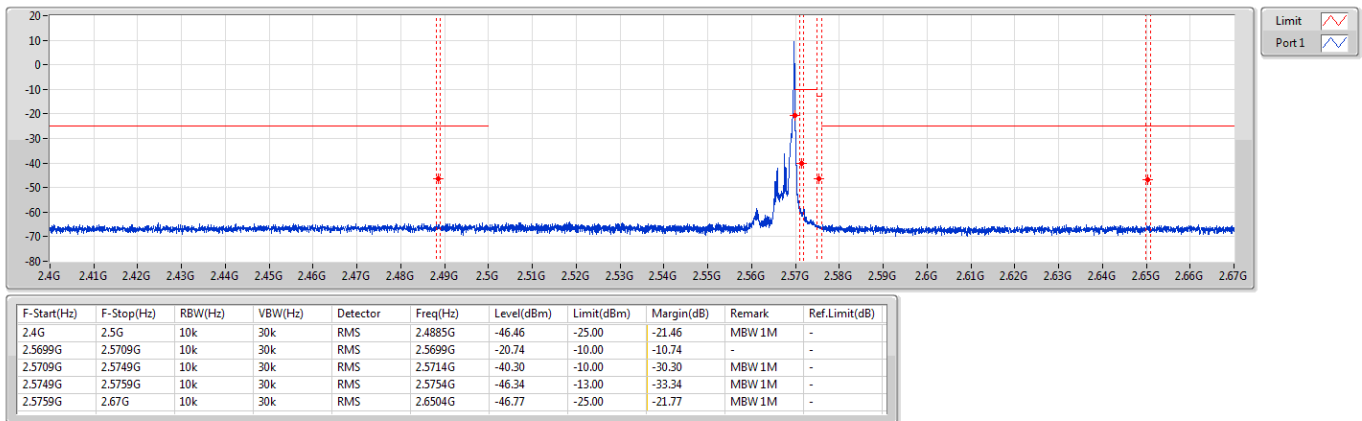
2502.5MHz_QPSK_RB 25,#RB 0



Band 7_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

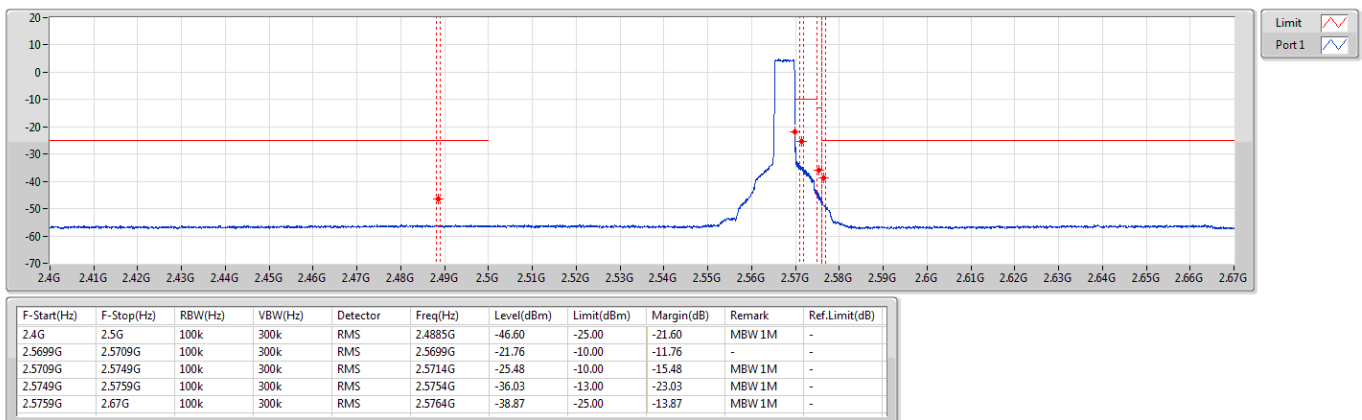
2567.5MHz_QPSK_RB 1,#RB 24



Band 7_LTE_5MHz_Nss1,QPSK_1TX

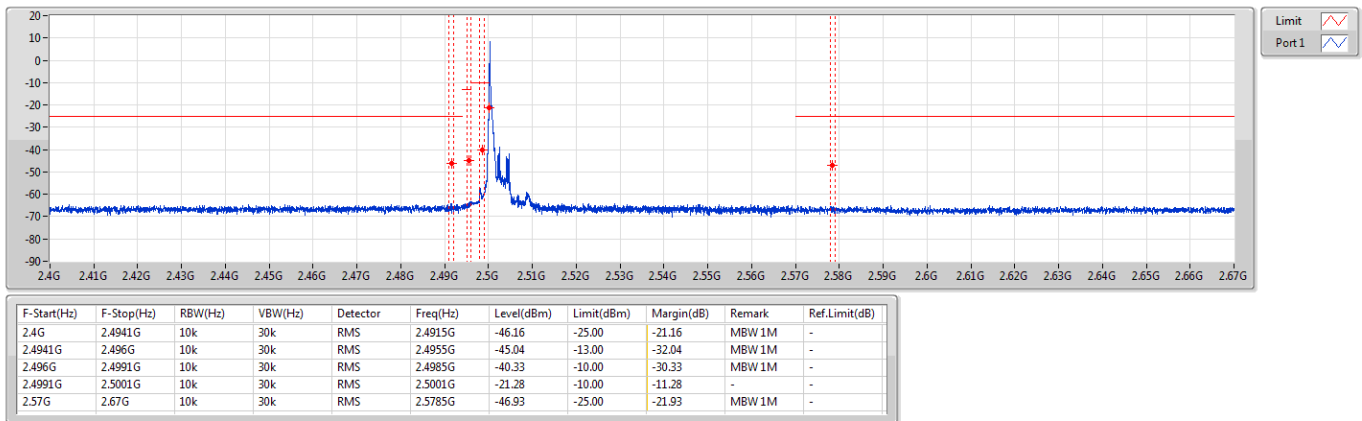
CSE-TX-Sum

2567.5MHz_QPSK_RB 25,#RB 0



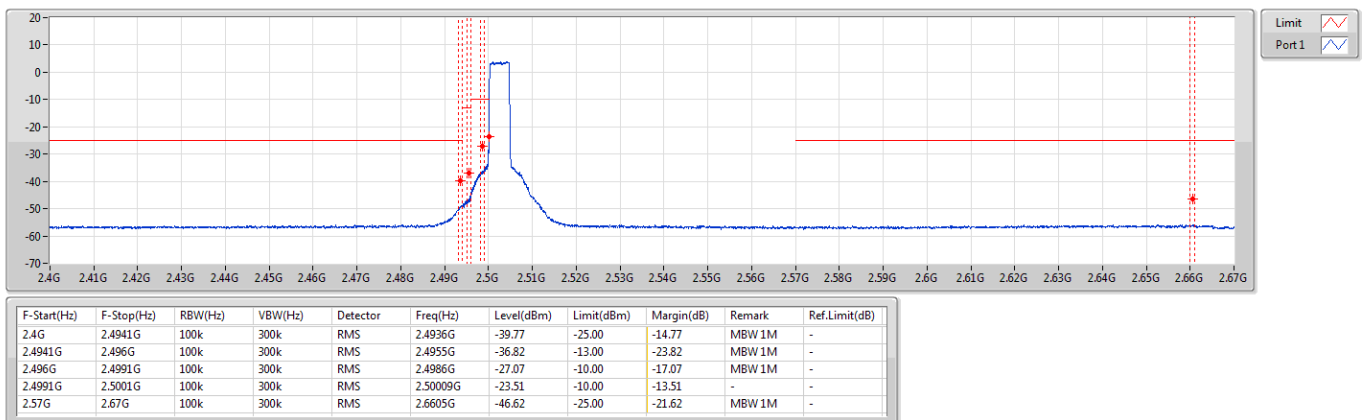
Band 7_LTE_5MHz_Nss1,16QAMCS_1TX
2502.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



Band 7_LTE_5MHz_Nss1,16QAMCS_1TX
2502.5MHz_16QAM_RB 25,#RB 0

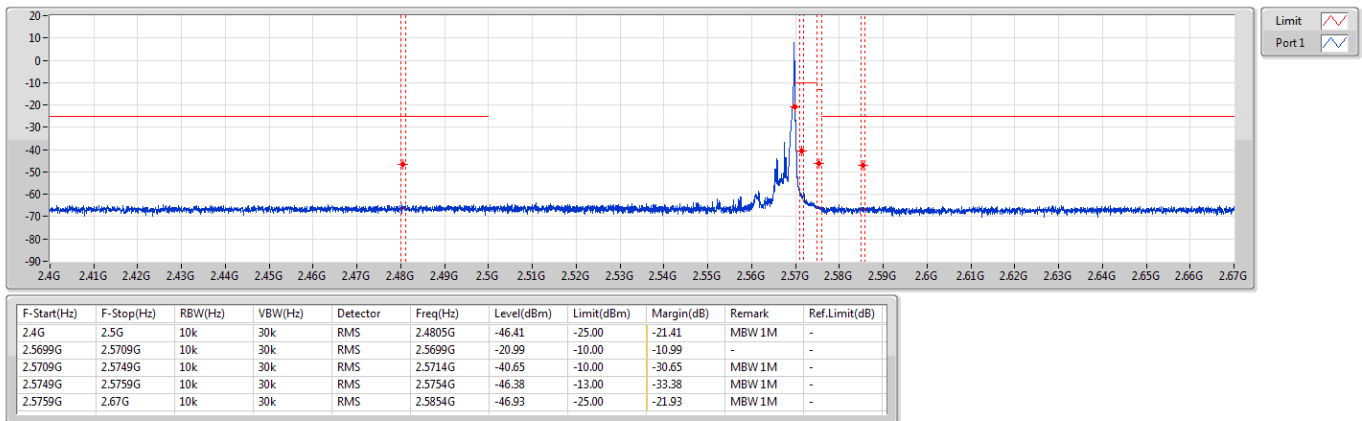
CSE-TX-Sum



Band 7_LTE_5MHz_Nss1,16QAMCS_1TX

CSE-TX-Sum

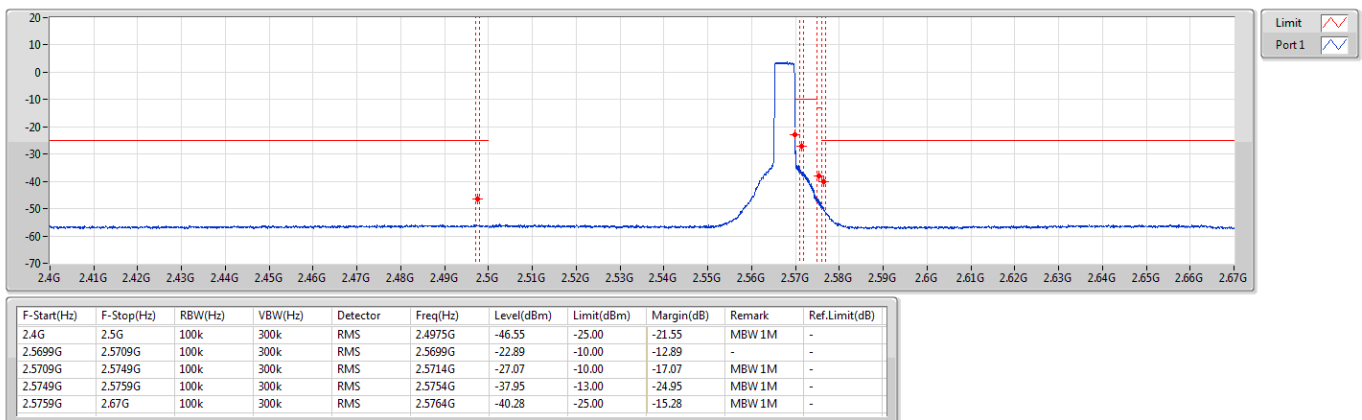
2567.5MHz_16QAM_RB 1,#RB 24



Band 7_LTE_5MHz_Nss1,16QAMCS_1TX

CSE-TX-Sum

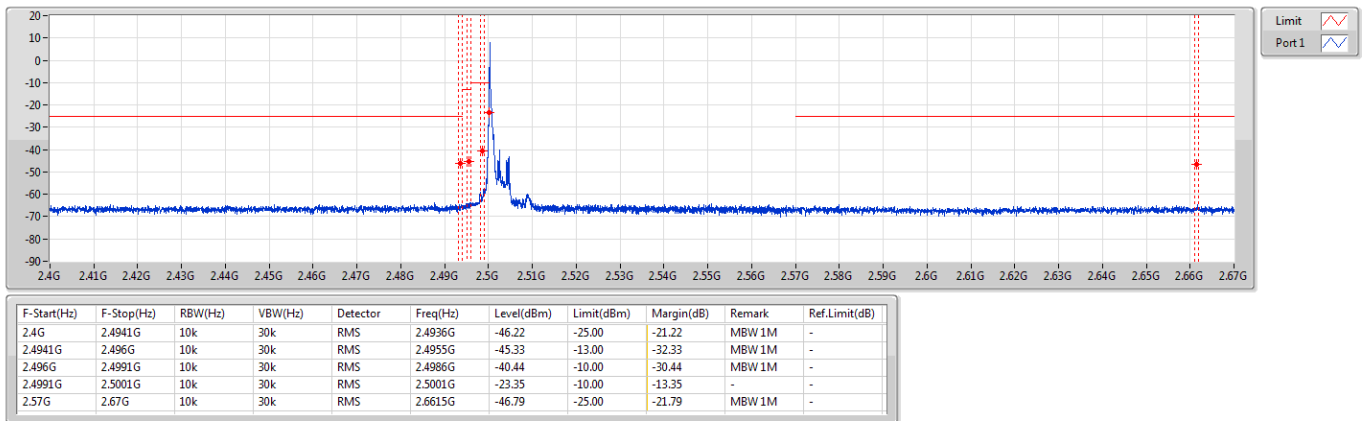
2567.5MHz_16QAM_RB 25,#RB 0



Band 7_LTE_5MHz_Nss1,64QAMCS_1TX

CSE-TX-Sum

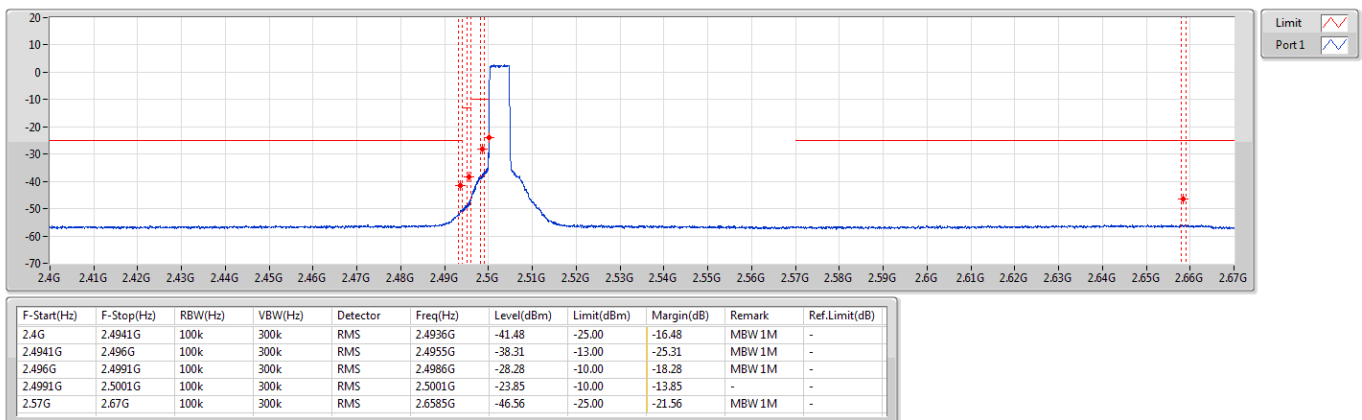
2502.5MHz_64QAM_RB 1,#RB 0



Band 7_LTE_5MHz_Nss1,64QAMCS_1TX

CSE-TX-Sum

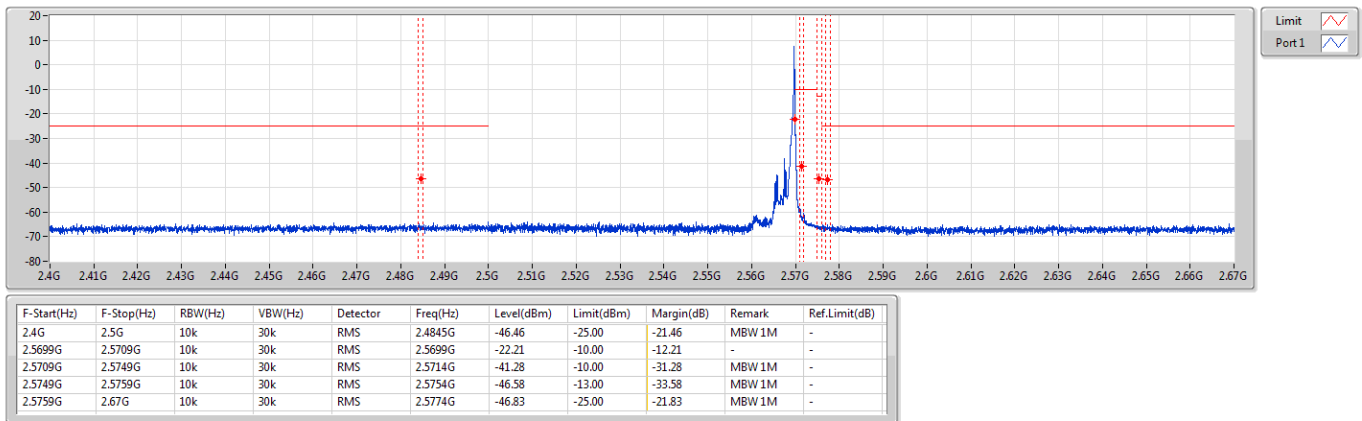
2502.5MHz_64QAM_RB 25,#RB 0



Band 7_LTE_5MHz_Nss1,64QAMCS_1TX

CSE-TX-Sum

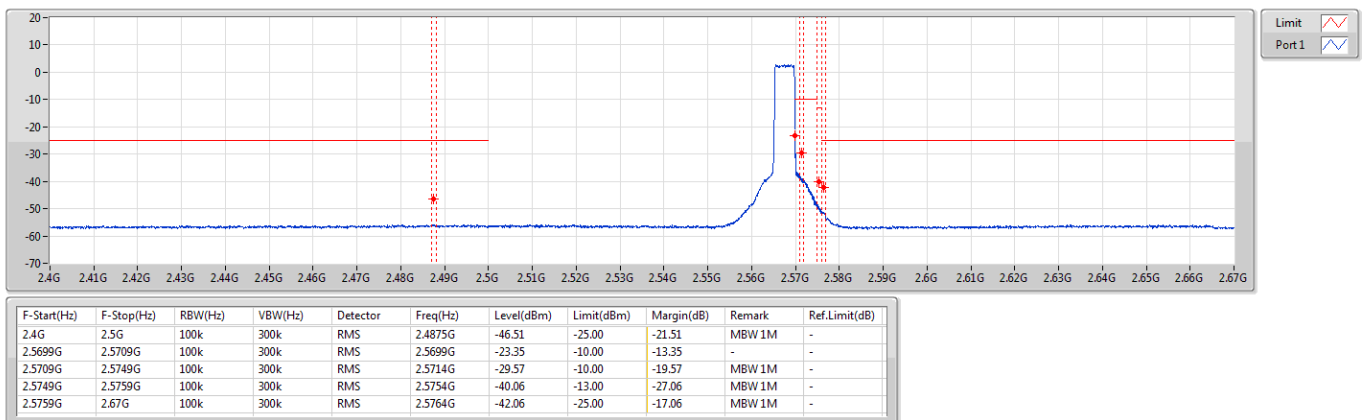
2567.5MHz_64QAM_RB 1,#RB 24



Band 7_LTE_5MHz_Nss1,64QAMCS_1TX

CSE-TX-Sum

2567.5MHz_64QAM_RB 25,#RB 0

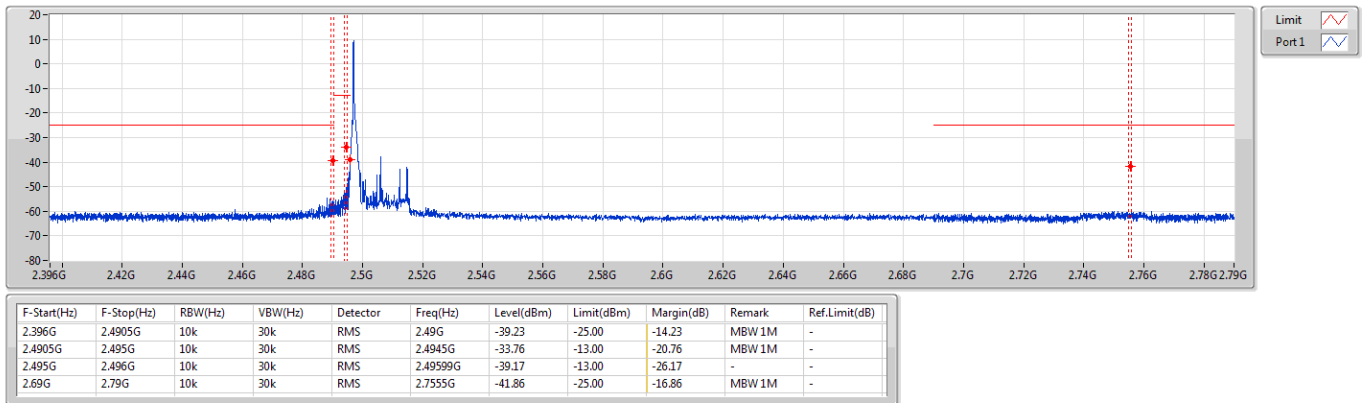


Summary

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 41	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2.6895G	2.6905G	500k	2M	RMS	2.6895G	-14.25	-10.00	-4.25	-	-
LTE_20MHz_Nss1,16QAM_1TX	Pass	2.396G	2.4905G	500k	2M	RMS	2.49G	-30.05	-25.00	-5.05	MBW 1M	-
LTE_20MHz_Nss1,64QAM_1TX	Pass	2.6895G	2.6905G	500k	2M	RMS	2.6895G	-16.36	-10.00	-6.36	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	2.396G	2.4905G	300k	1M	RMS	2.49G	-29.65	-25.00	-4.65	MBW 1M	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	2.396G	2.4905G	300k	1M	RMS	2.49G	-29.17	-25.00	-4.17	MBW 1M	-
LTE_15MHz_Nss1,64QAM_1TX	Pass	2.396G	2.4905G	300k	1M	RMS	2.49G	-30.63	-25.00	-5.63	MBW 1M	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	2.396G	2.4905G	200k	1M	RMS	2.49G	-30.57	-25.00	-5.57	MBW 1M	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	2.396G	2.4905G	200k	1M	RMS	2.49G	-29.80	-25.00	-4.80	MBW 1M	-
LTE_10MHz_Nss1,64QAM_1TX	Pass	2.396G	2.4905G	200k	1M	RMS	2.49G	-31.39	-25.00	-6.39	MBW 1M	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	2.6899G	2.6909G	10k	30k	RMS	2.6899G	-20.29	-10.00	-10.29	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	2.4905G	2.495G	100k	300k	RMS	2.4945G	-22.91	-13.00	-9.91	MBW 1M	-
LTE_5MHz_Nss1,64QAM_1TX	Pass	2.6899G	2.6909G	10k	30k	RMS	2.6899G	-21.27	-10.00	-11.27	-	-

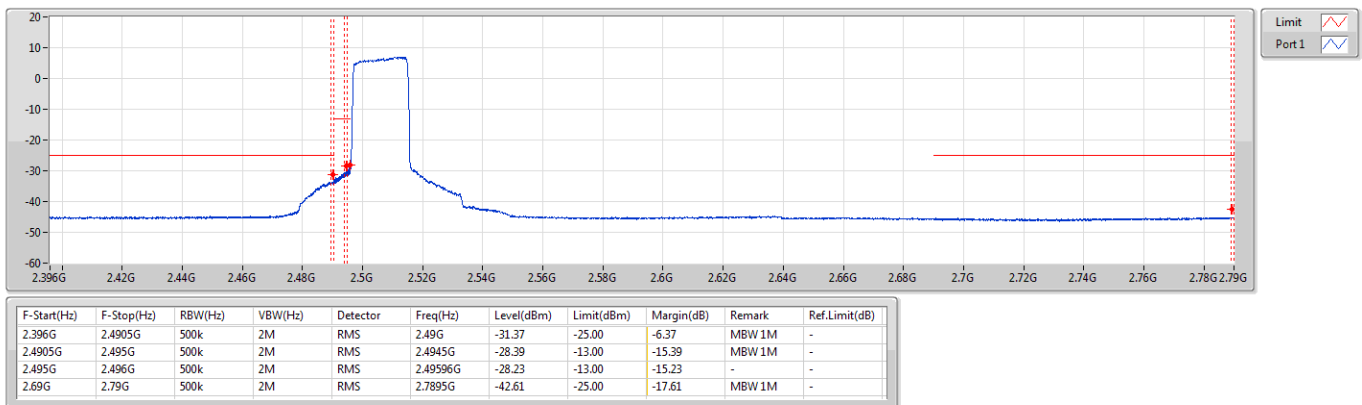
Band 41_LTE_20MHz_Nss1,QPSK_1TX
2506MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



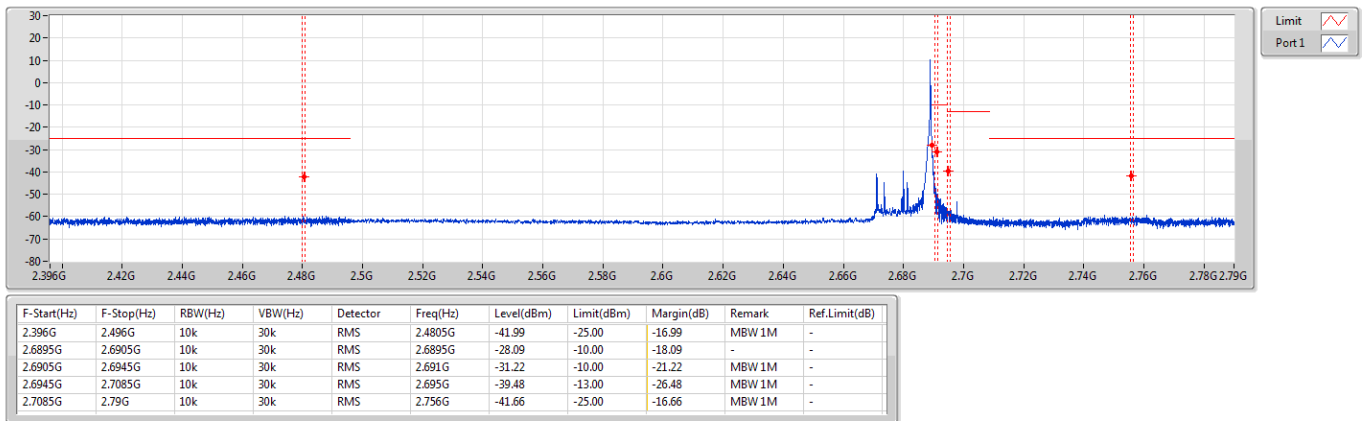
Band 41_LTE_20MHz_Nss1,QPSK_1TX
2506MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



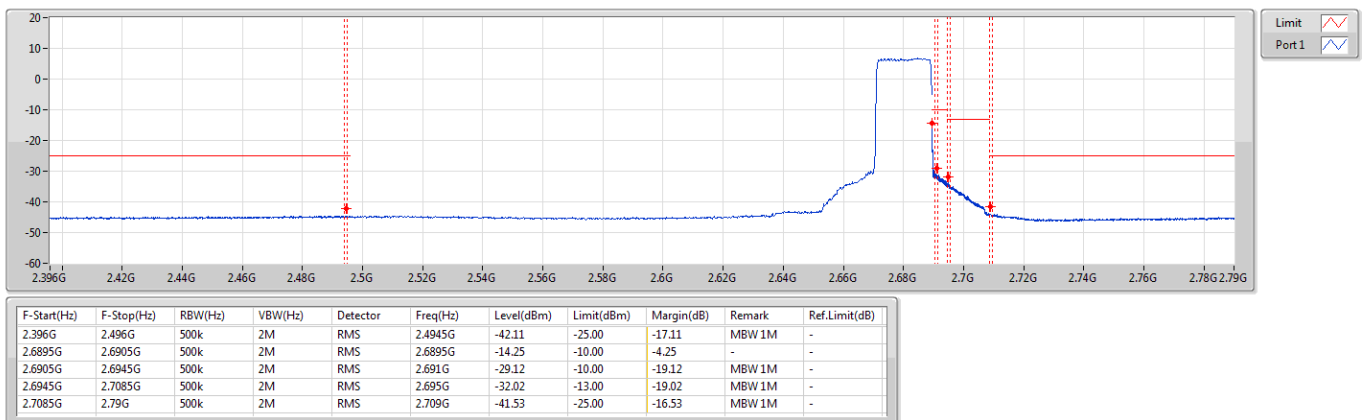
Band 41_LTE_20MHz_Nss1,QPSK_1TX
2680MHz_QPSK_RB 1,#RB 99

CSE-TX-Sum



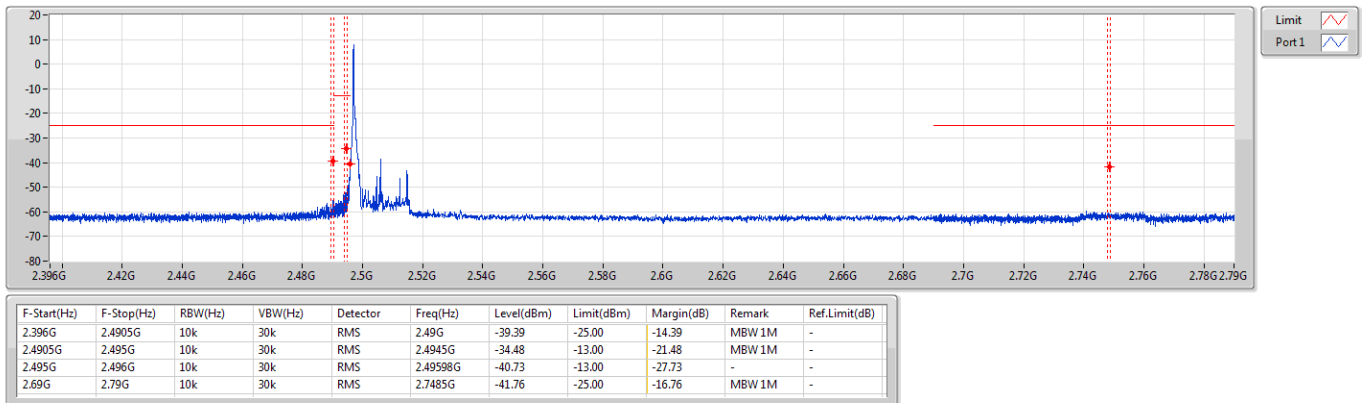
Band 41_LTE_20MHz_Nss1,QPSK_1TX
2680MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



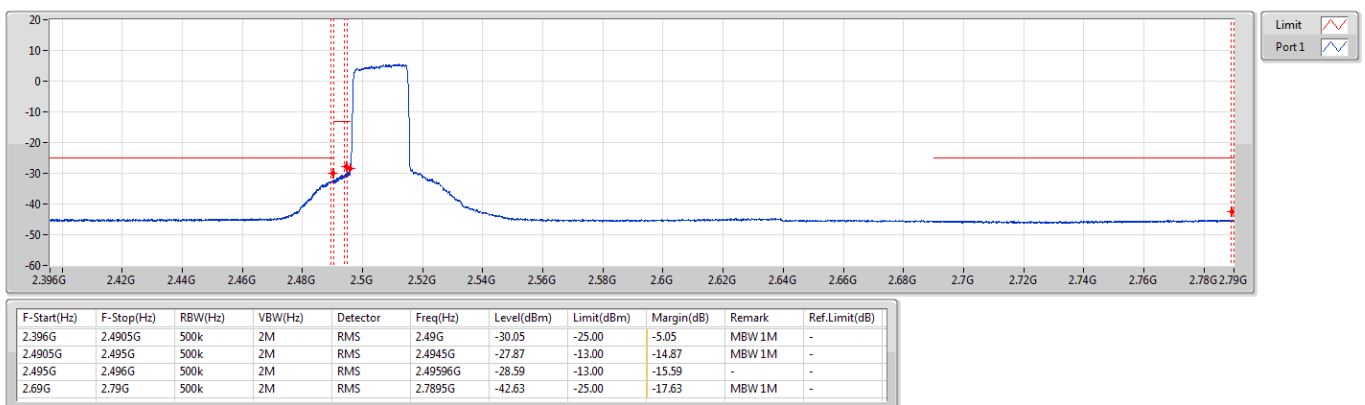
Band 41_LTE_20MHz_Nss1,16QAMCS_1TX
2506MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



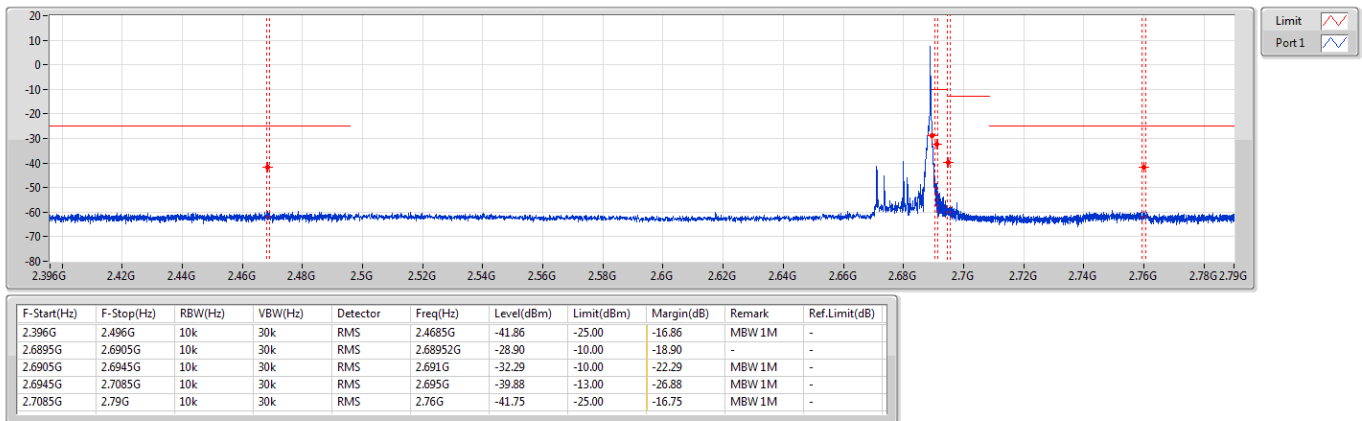
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2506MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



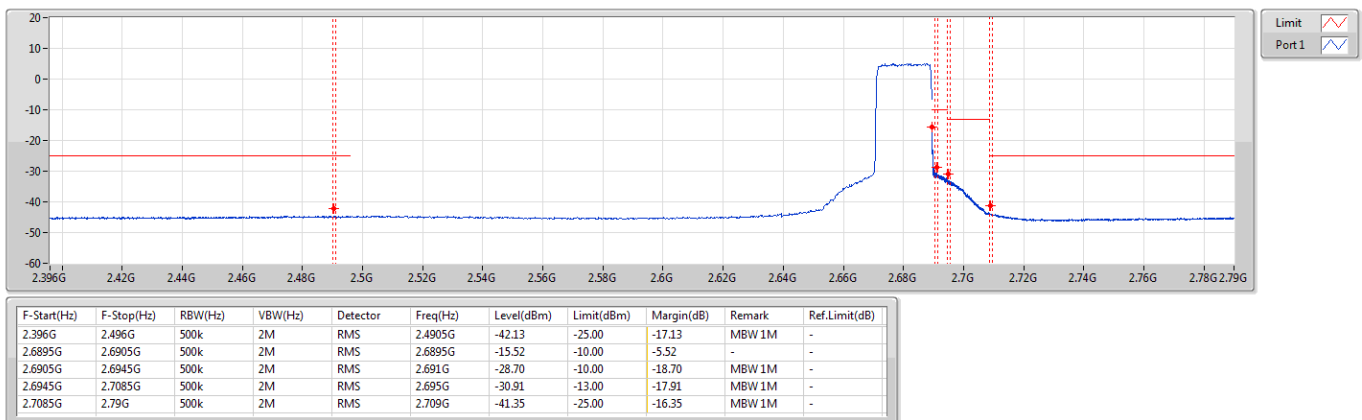
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2680MHz_16QAM_RB 1,#RB 99

CSE-TX-Sum



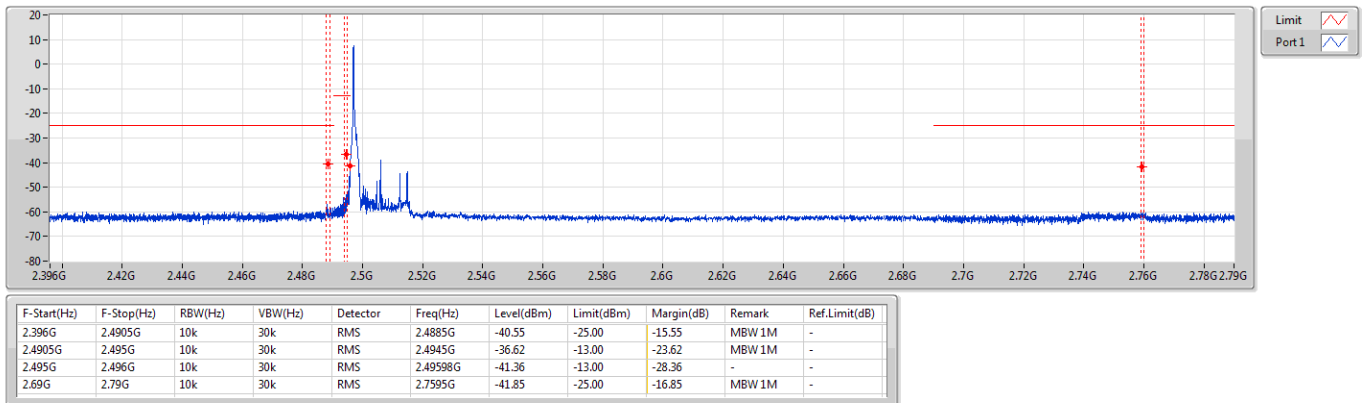
Band 41_LTE_20MHz_Nss1,16QAMCS_1TX
2680MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



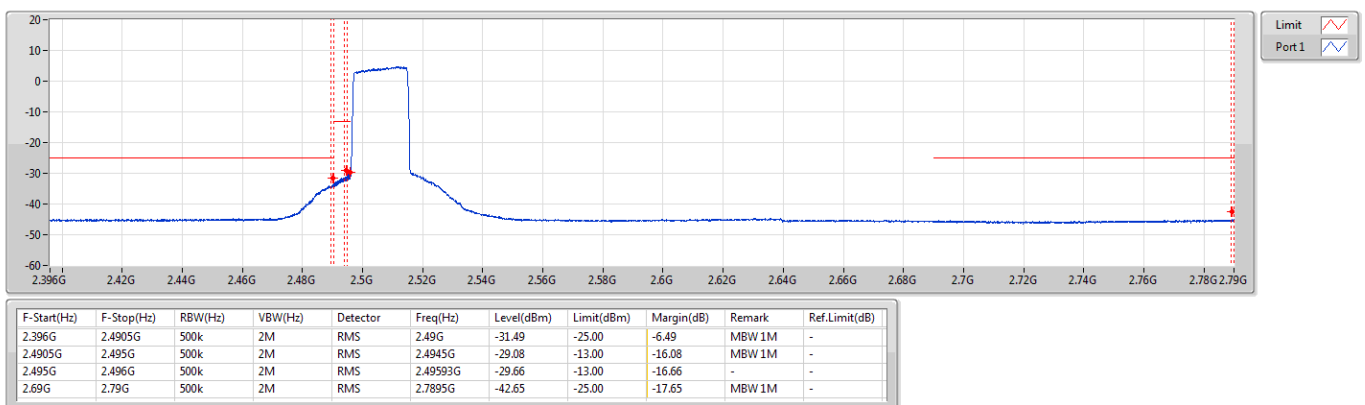
Band 41_LTE_20MHz_Nss1,64QAMCS_1TX
2506MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



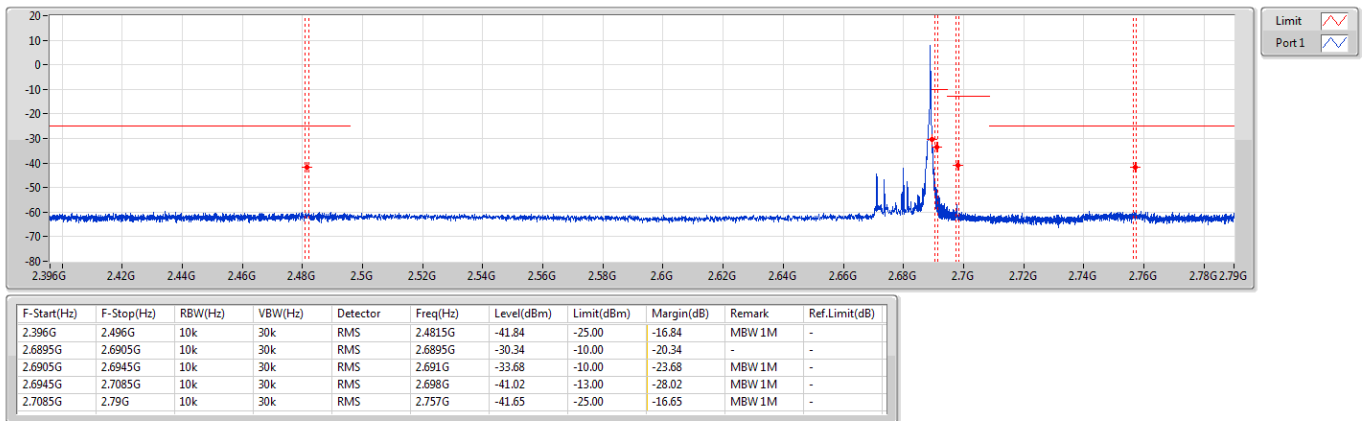
Band 41_LTE_20MHz_Nss1,64QAMCS_1TX
2506MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



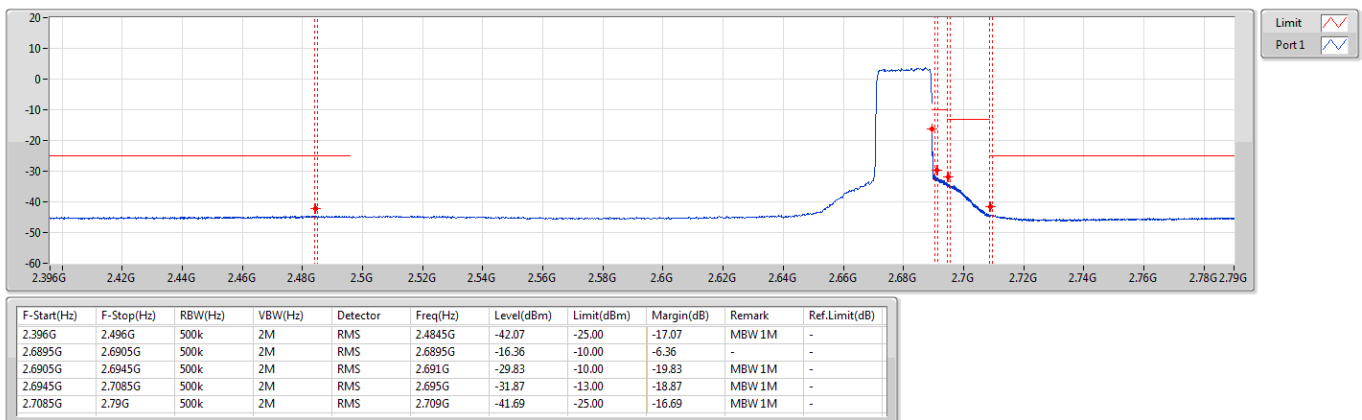
Band 41_LTE_20MHz_Nss1,64QAMCS_1TX
2680MHz_64QAM_RB 1,#RB 99

CSE-TX-Sum



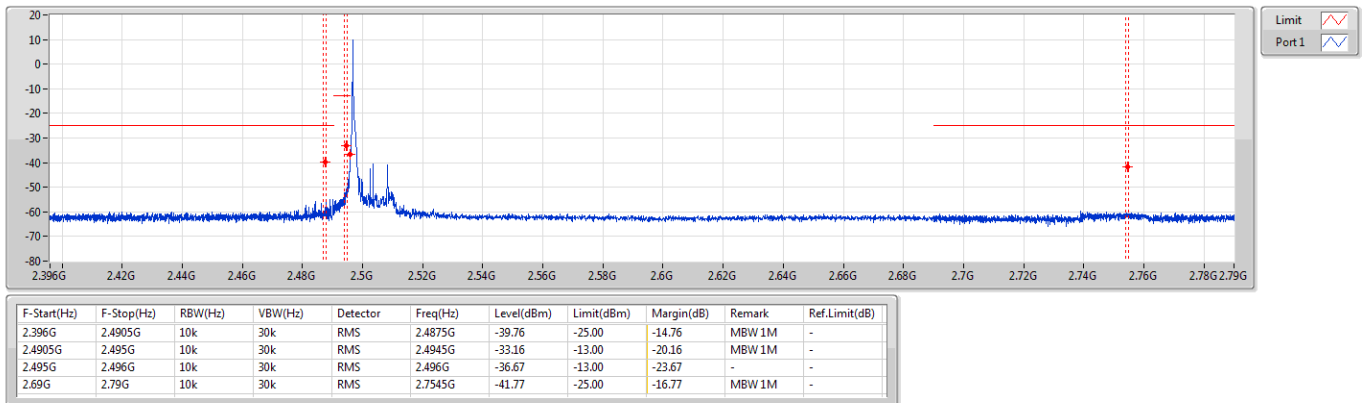
Band 41_LTE_20MHz_Nss1,64QAMCS_1TX
2680MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



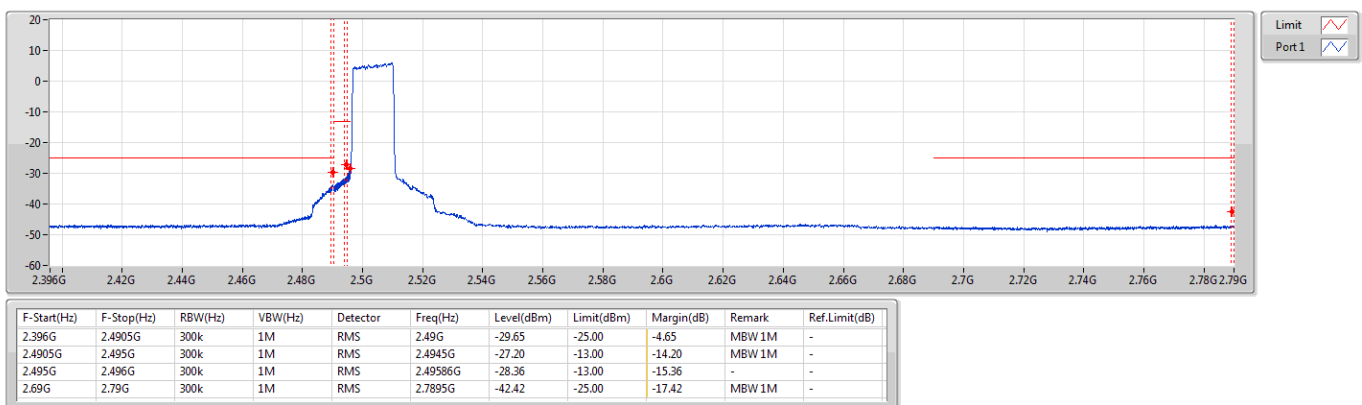
Band 41_LTE_15MHz_Nss1,QPSK_1TX
2503.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



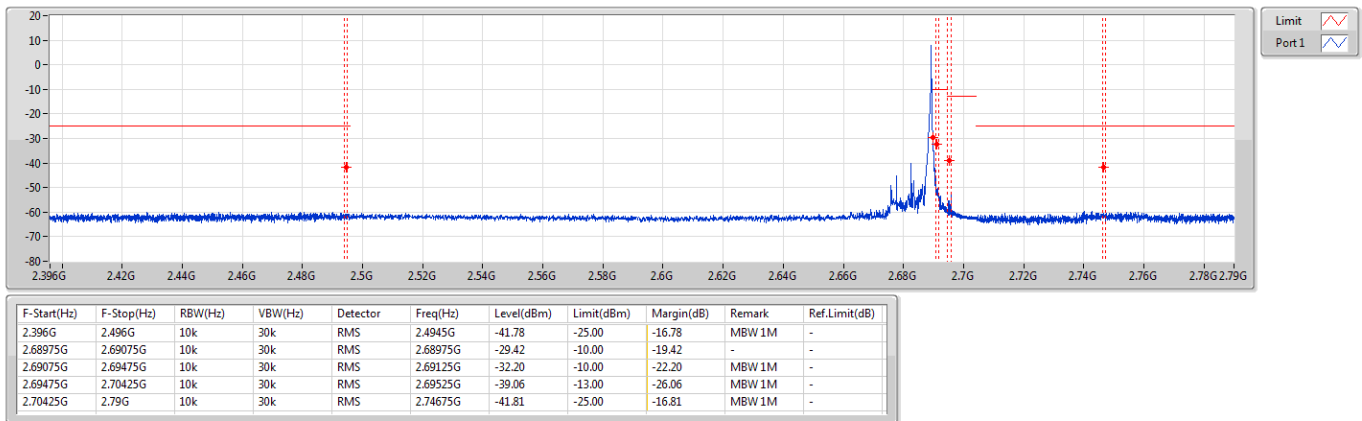
Band 41_LTE_15MHz_Nss1,QPSK_1TX
2503.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



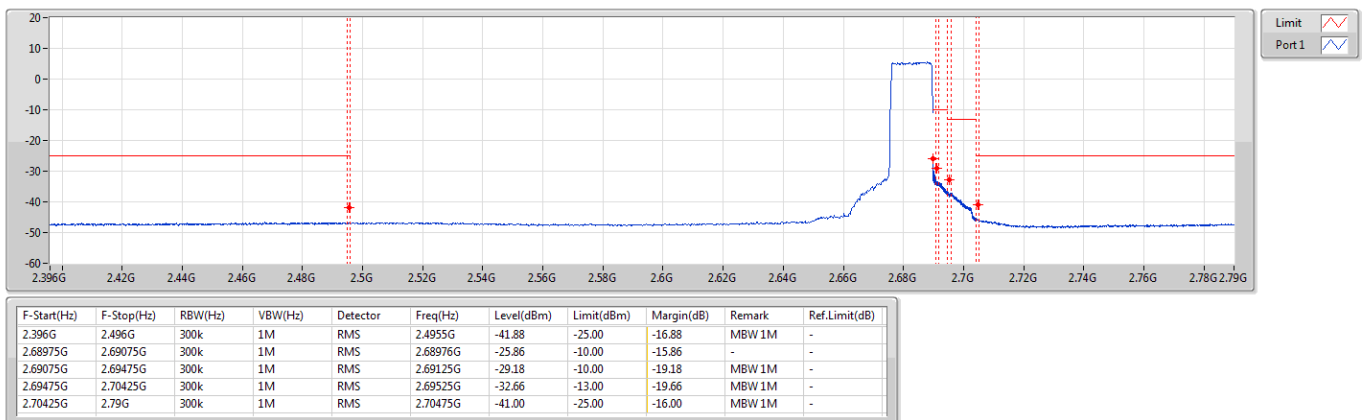
Band 41_LTE_15MHz_Nss1,QPSK_1TX
2682.5MHz_QPSK_RB 1,#RB 74

CSE-TX-Sum



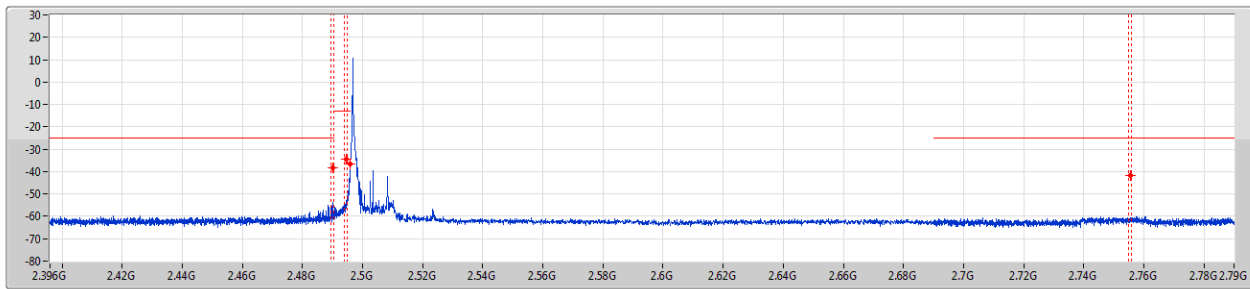
Band 41_LTE_15MHz_Nss1,QPSK_1TX
2682.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



Band 41_LTE_15MHz_Nss1,16QAMCS_1TX
2503.5MHz_16QAM_RB 1,#RB 0

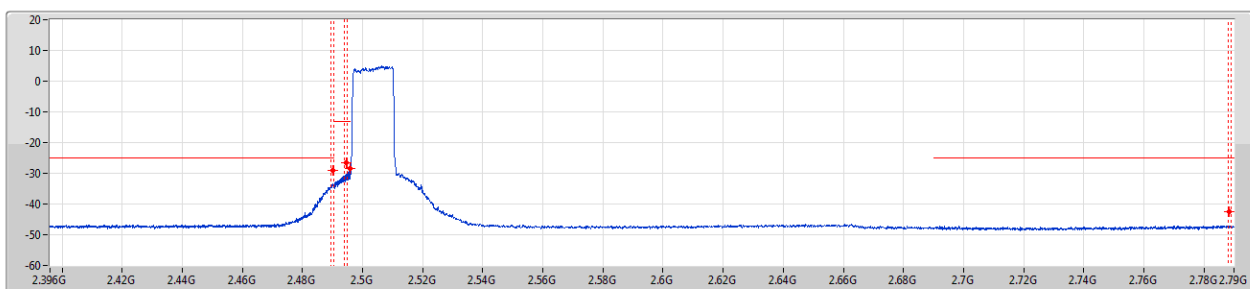
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
2.396G	2.4905G	10k	30k	RMS	2.49G	-38.19	-25.00	-13.19	MBW 1M	-
2.4905G	2.495G	10k	30k	RMS	2.4945G	-34.41	-13.00	-21.41	MBW 1M	-
2.495G	2.496G	10k	30k	RMS	2.496G	-36.55	-13.00	-23.55	-	-
2.69G	2.79G	10k	30k	RMS	2.7555G	-41.78	-25.00	-16.78	MBW 1M	-

Band 41_LTE_15MHz_Nss1,16QAMCS_1TX
2503.5MHz_16QAM_RB 75,#RB 0

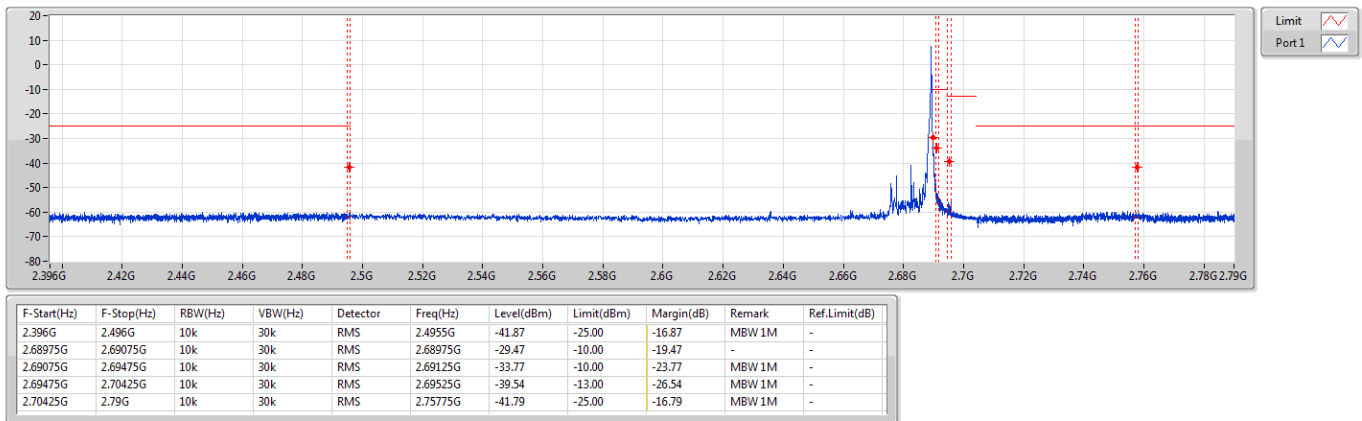
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
2.396G	2.4905G	300k	1M	RMS	2.49G	-29.17	-25.00	-4.17	MBW 1M	-
2.4905G	2.495G	300k	1M	RMS	2.4945G	-26.57	-13.00	-13.57	MBW 1M	-
2.495G	2.496G	300k	1M	RMS	2.49597G	-28.53	-13.00	-15.53	-	-
2.69G	2.79G	300k	1M	RMS	2.7885G	-42.44	-25.00	-17.44	MBW 1M	-

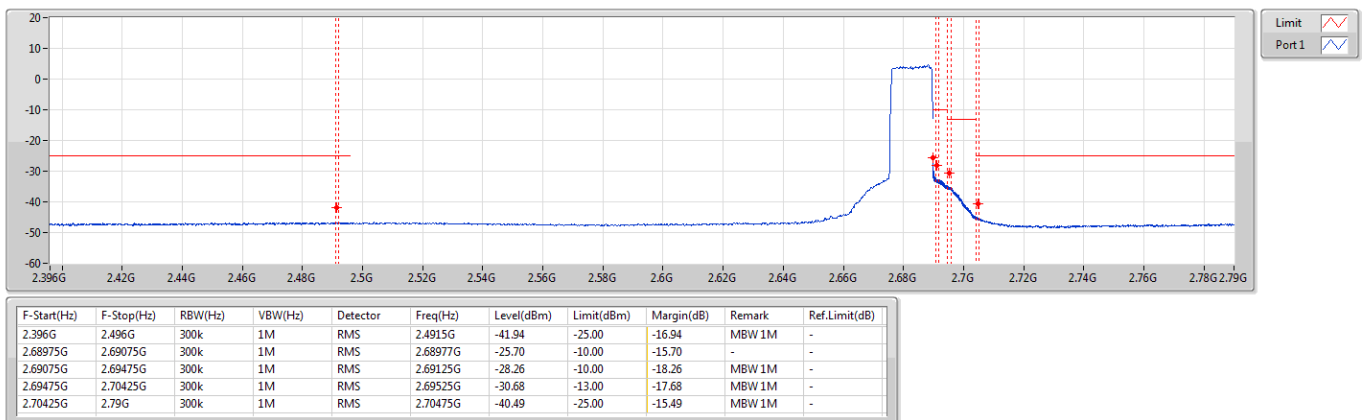
Band 41_LTE_15MHz_Nss1,16QAMCS_1TX
2682.5MHz_16QAM_RB 1,#RB 74

CSE-TX-Sum



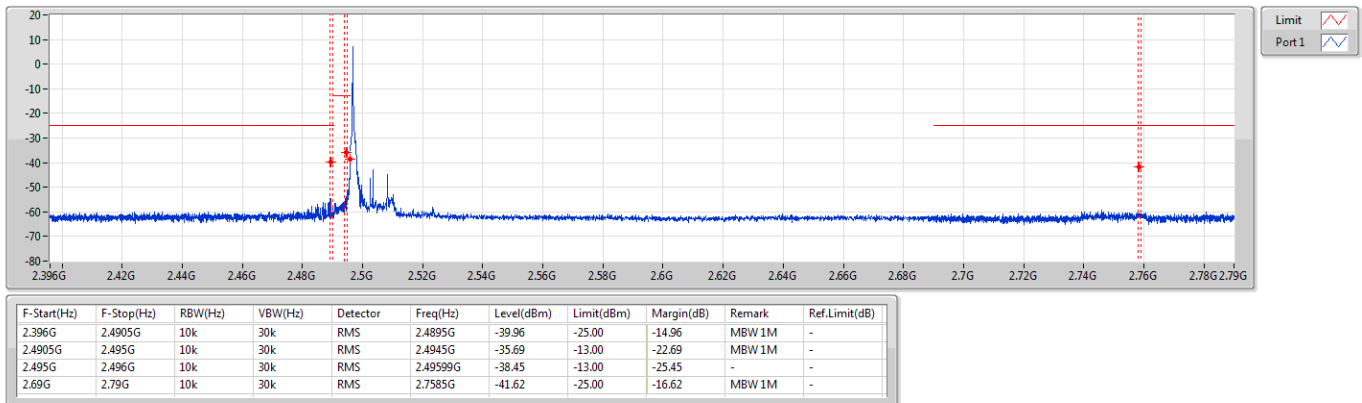
Band 41_LTE_15MHz_Nss1,16QAMCS_1TX
2682.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



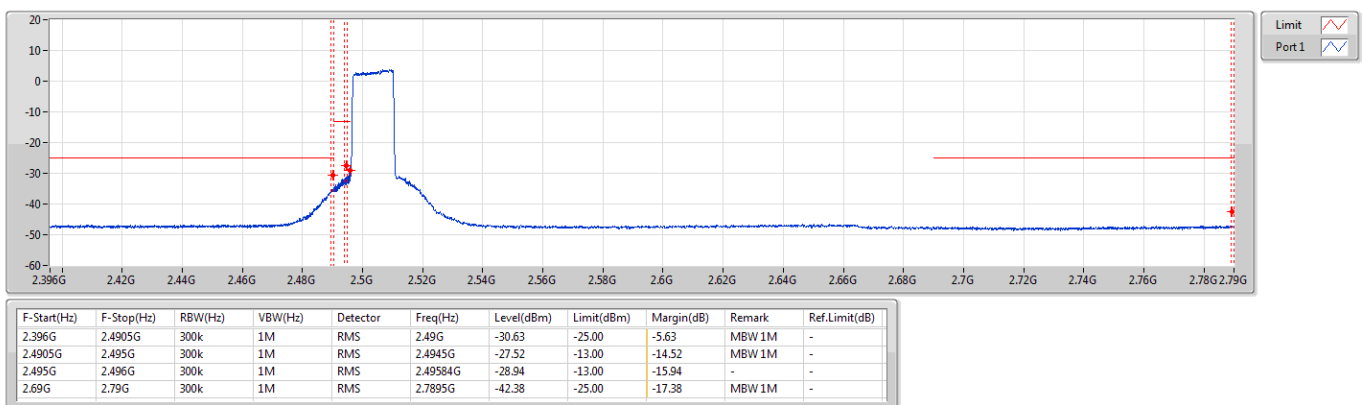
Band 41_LTE_15MHz_Nss1,64QAMCS_1TX
2503.5MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



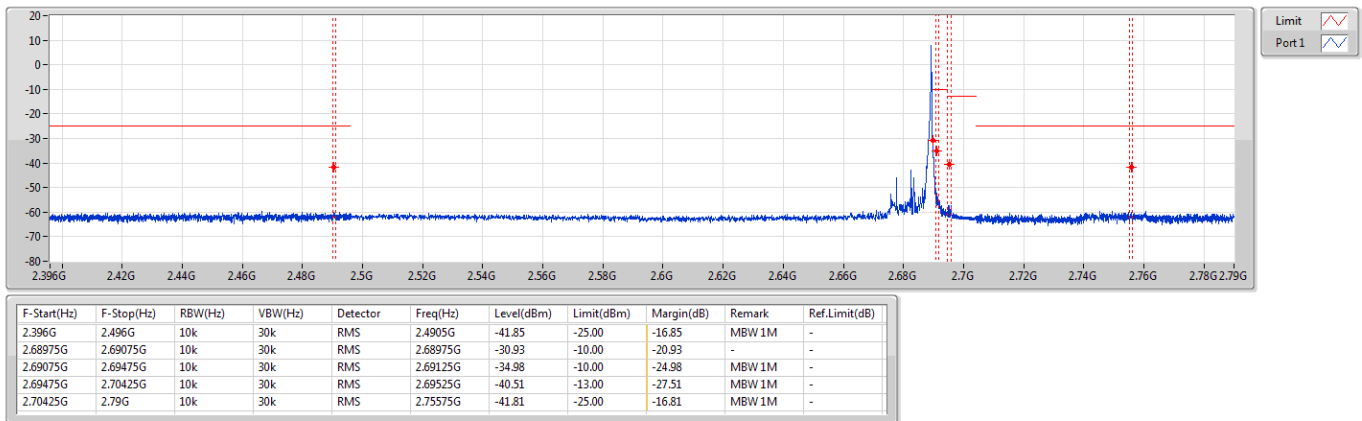
Band 41_LTE_15MHz_Nss1,64QAMCS_1TX
2503.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



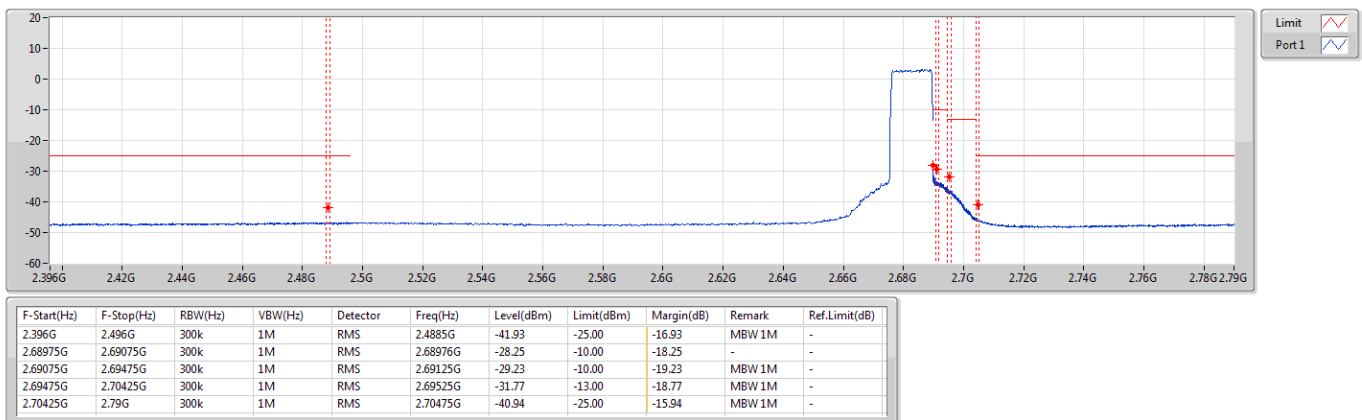
Band 41_LTE_15MHz_Nss1,64QAMCS_1TX
2682.5MHz_64QAM_RB 1,#RB 74

CSE-TX-Sum



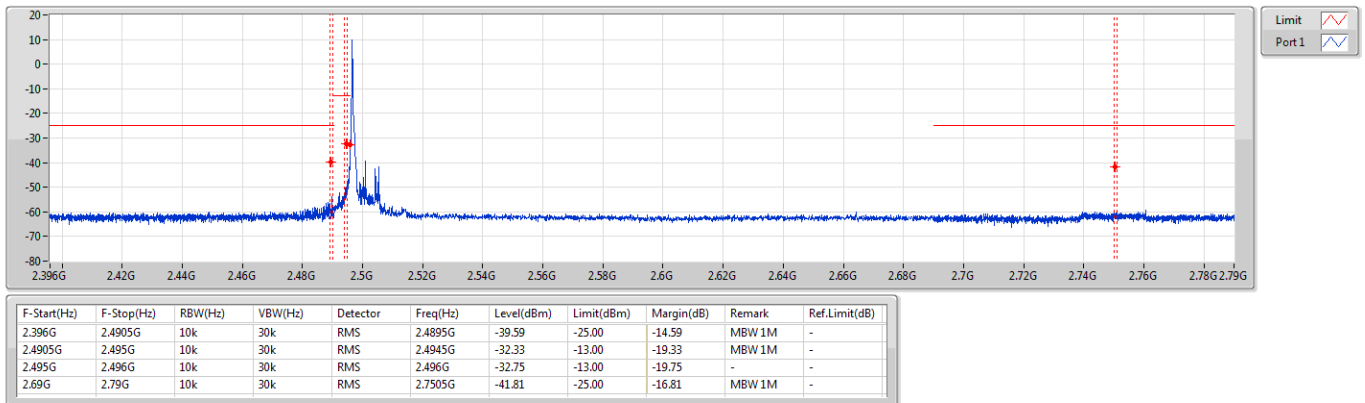
Band 41_LTE_15MHz_Nss1,64QAMCS_1TX
2682.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



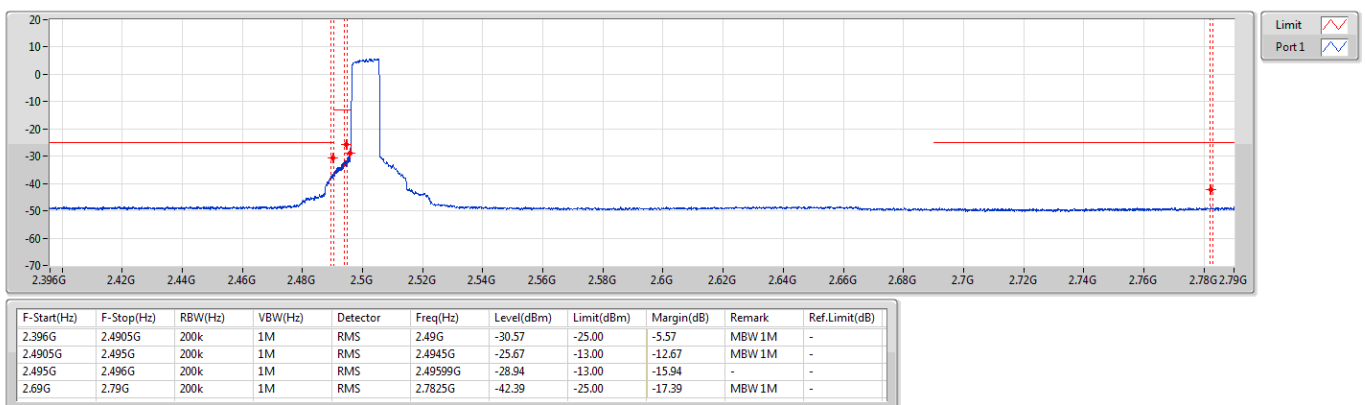
Band 41_LTE_10MHz_Nss1,QPSK_1TX
2501MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



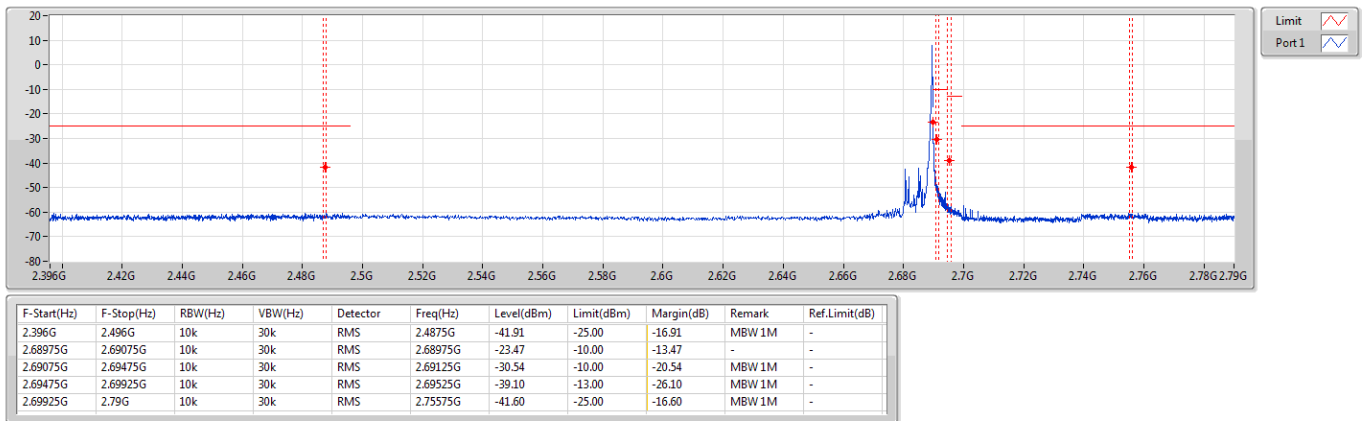
Band 41_LTE_10MHz_Nss1,QPSK_1TX
2501MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



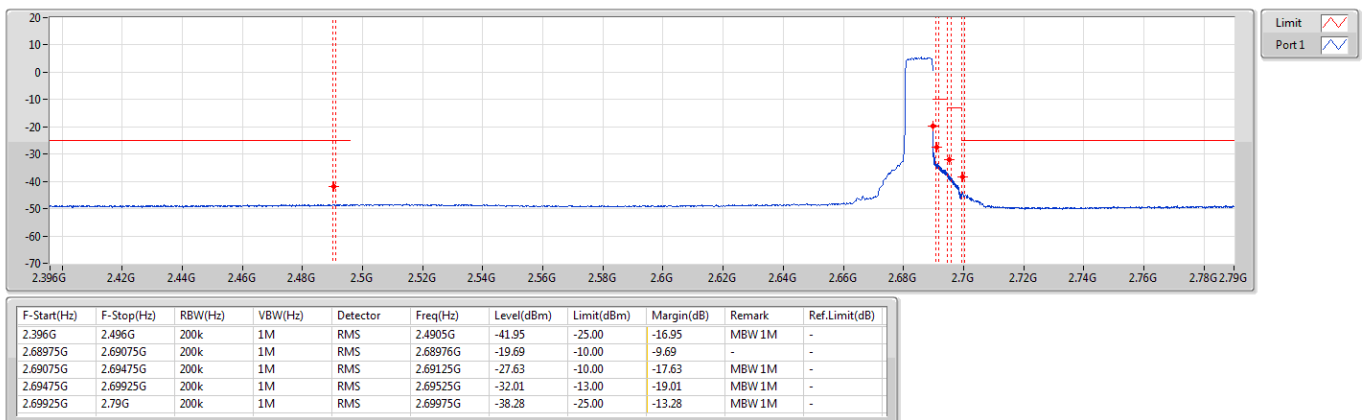
Band 41_LTE_10MHz_Nss1,QPSK_1TX
2685MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



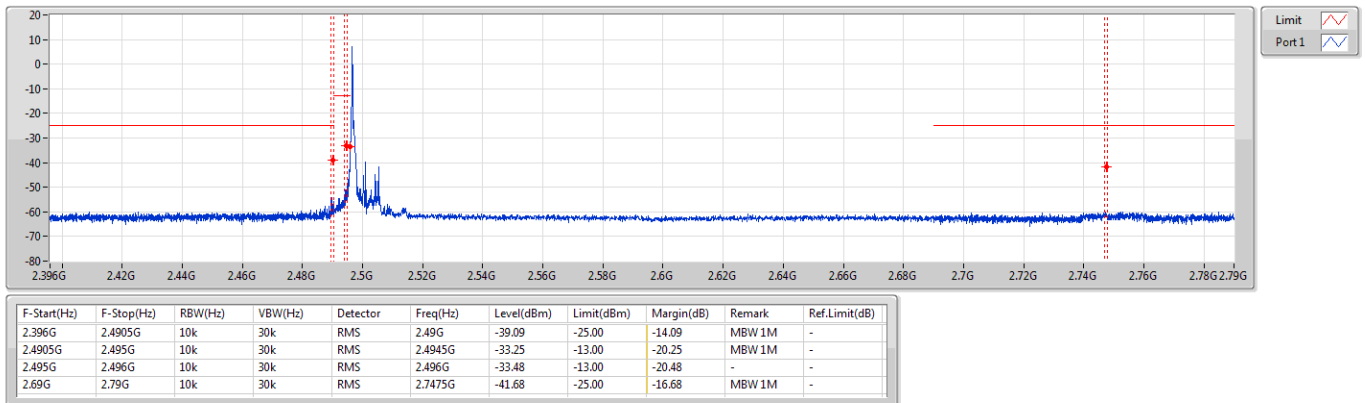
Band 41_LTE_10MHz_Nss1,QPSK_1TX
2685MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



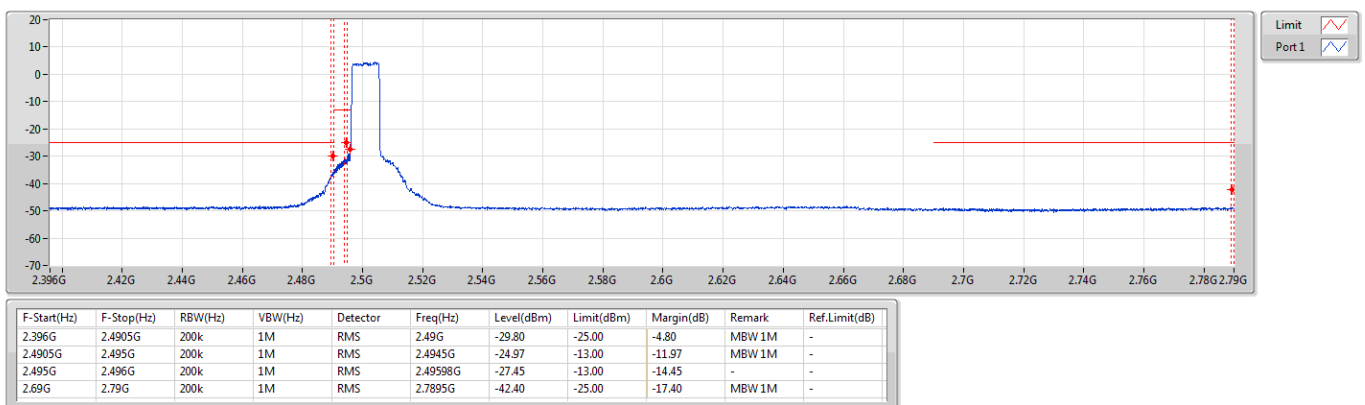
Band 41_LTE_10MHz_Nss1,16QAMCS_1TX
2501MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



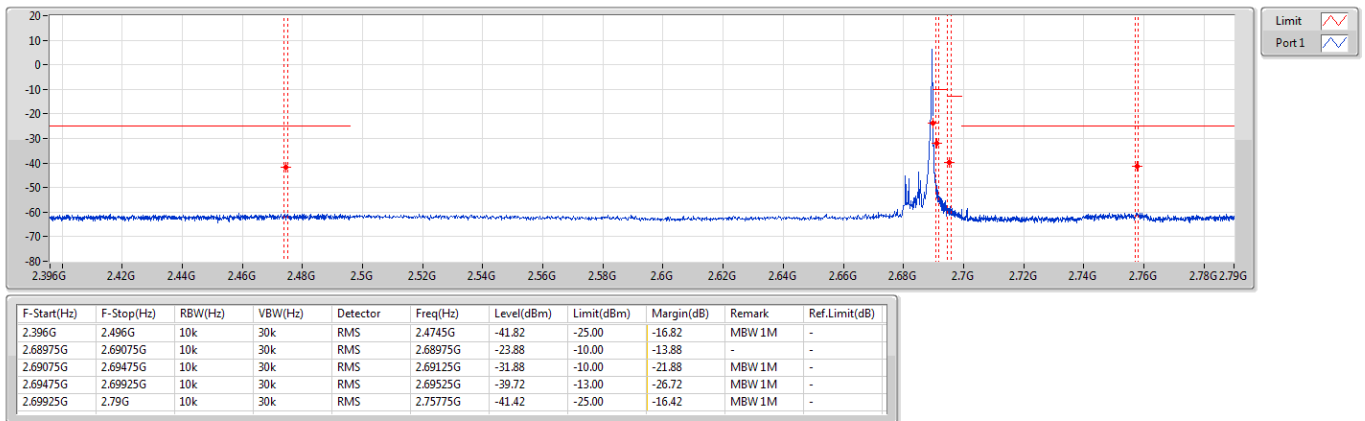
Band 41_LTE_10MHz_Nss1,16QAMCS_1TX
2501MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



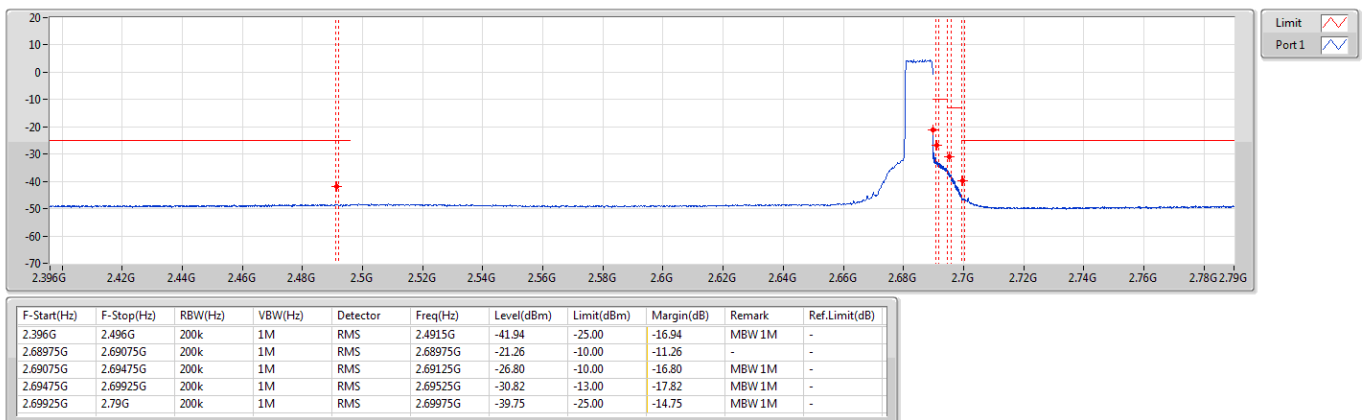
Band 41_LTE_10MHz_Nss1,16QAMCS_1TX
2685MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



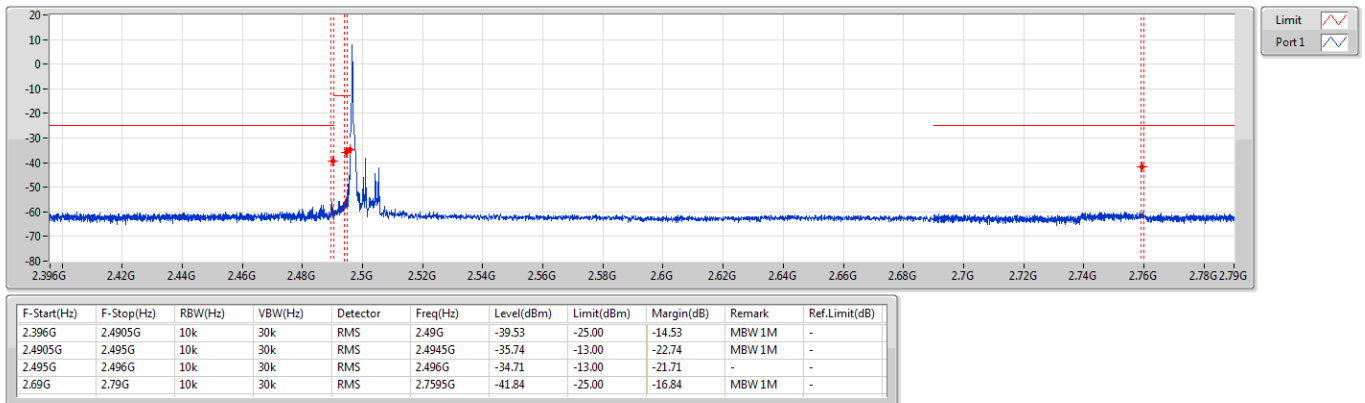
Band 41_LTE_10MHz_Nss1,16QAMCS_1TX
2685MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



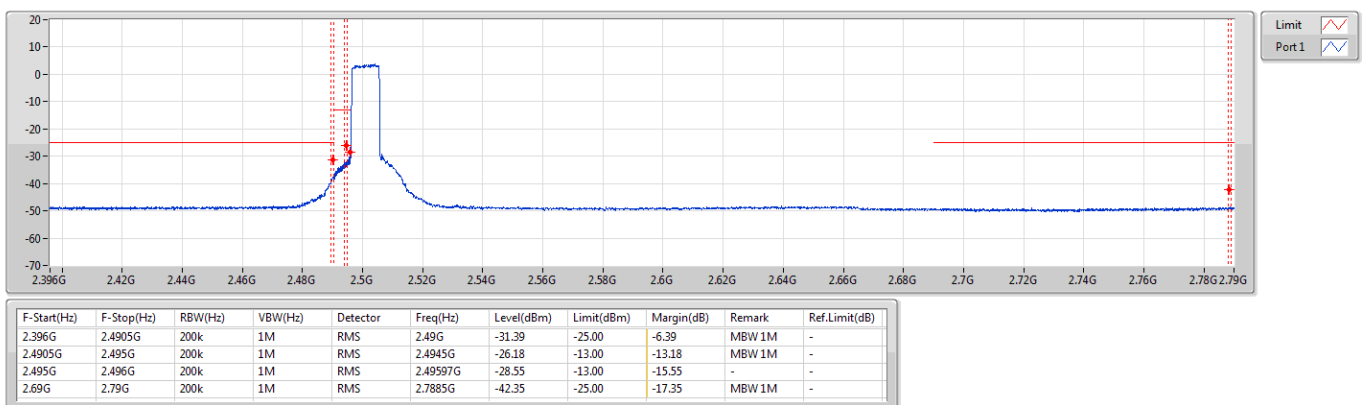
Band 41_LTE_10MHz_Nss1,64QAMCS_1TX
2501MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



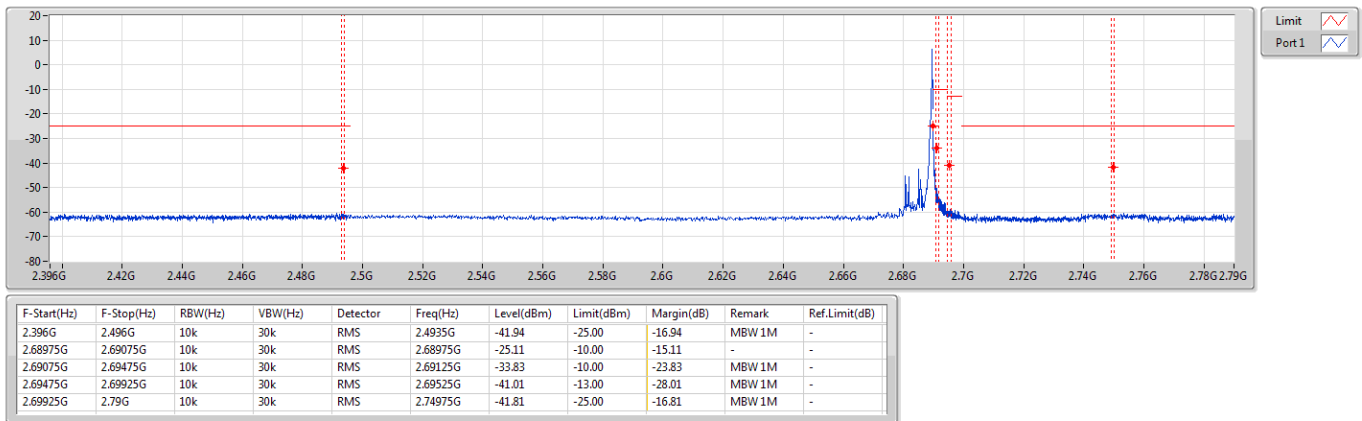
Band 41_LTE_10MHz_Nss1,64QAMCS_1TX
2501MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



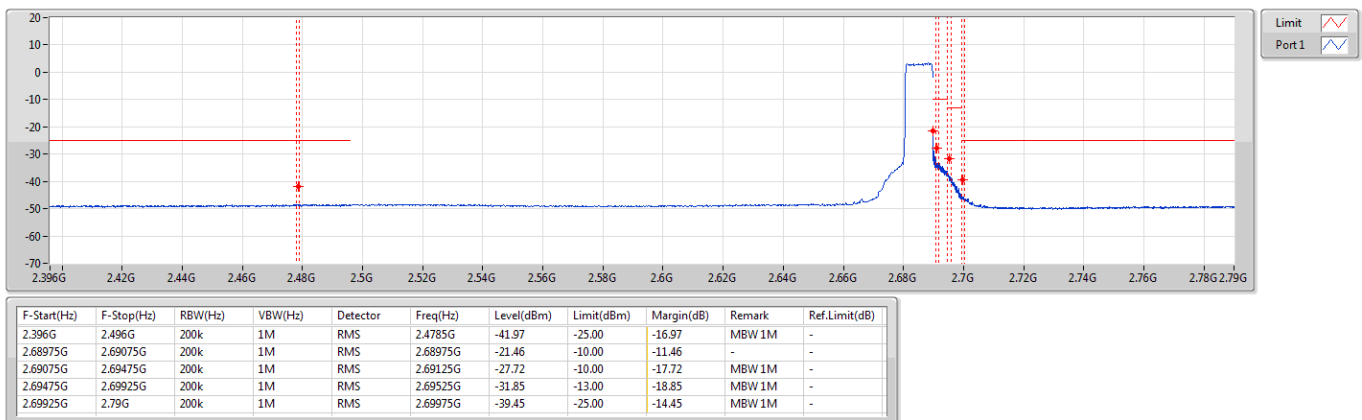
Band 41_LTE_10MHz_Nss1,64QAMCS_1TX
2685MHz_64QAM_RB 1,#RB 49

CSE-TX-Sum



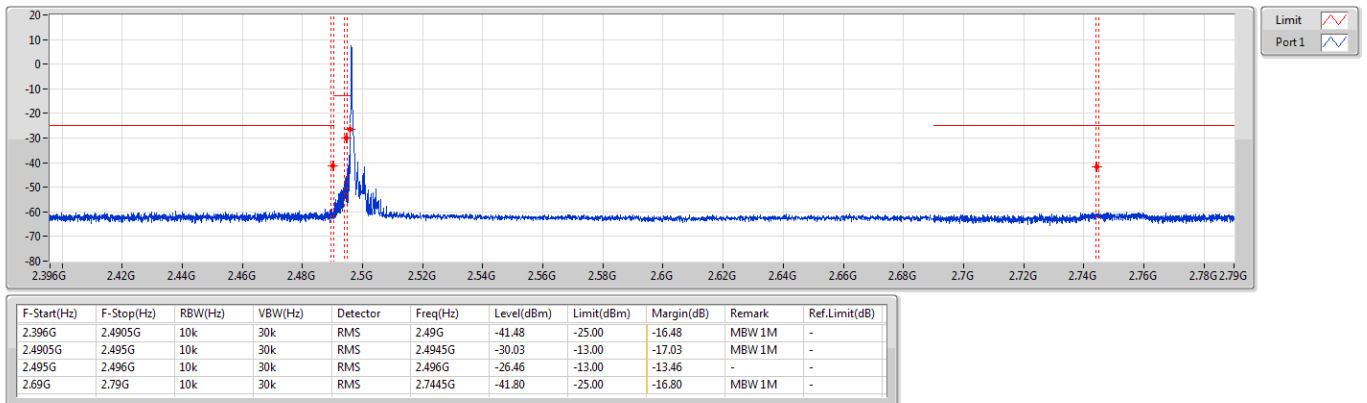
Band 41_LTE_10MHz_Nss1,64QAMCS_1TX
2685MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



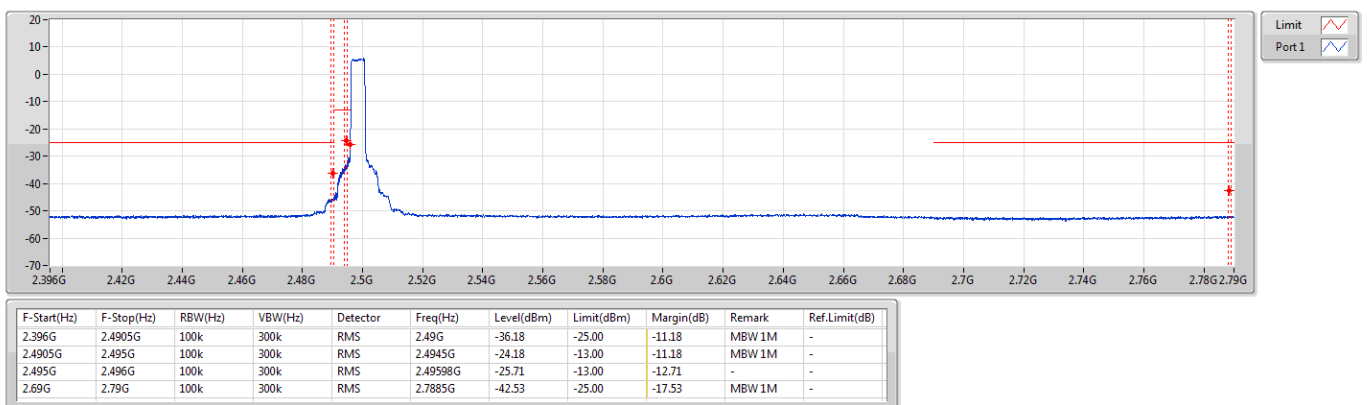
Band 41_LTE_5MHz_Nss1,QPSK_1TX
2498.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



Band 41_LTE_5MHz_Nss1,QPSK_1TX
2498.5MHz_QPSK_RB 25,#RB 0

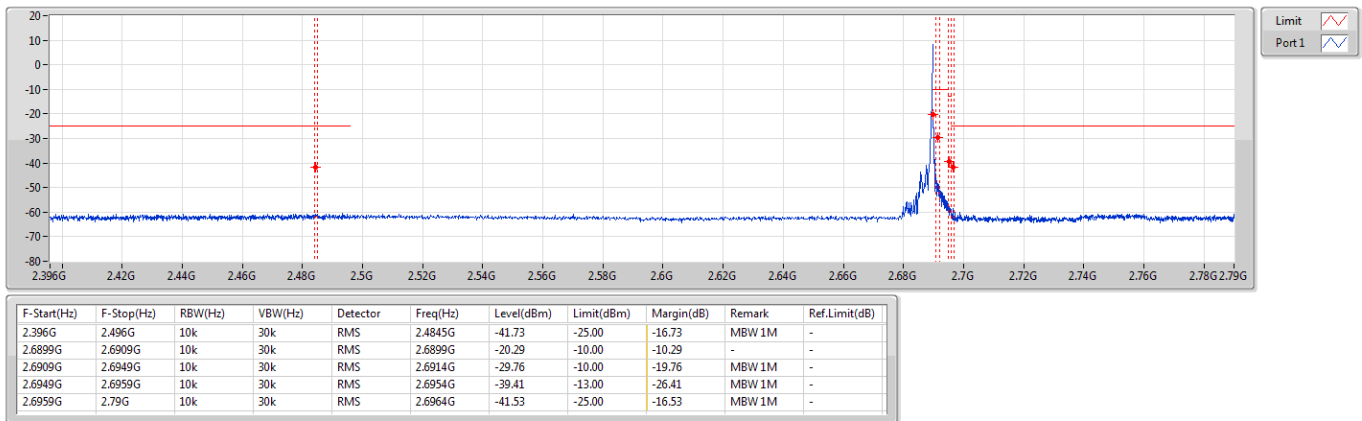
CSE-TX-Sum



Band 41_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

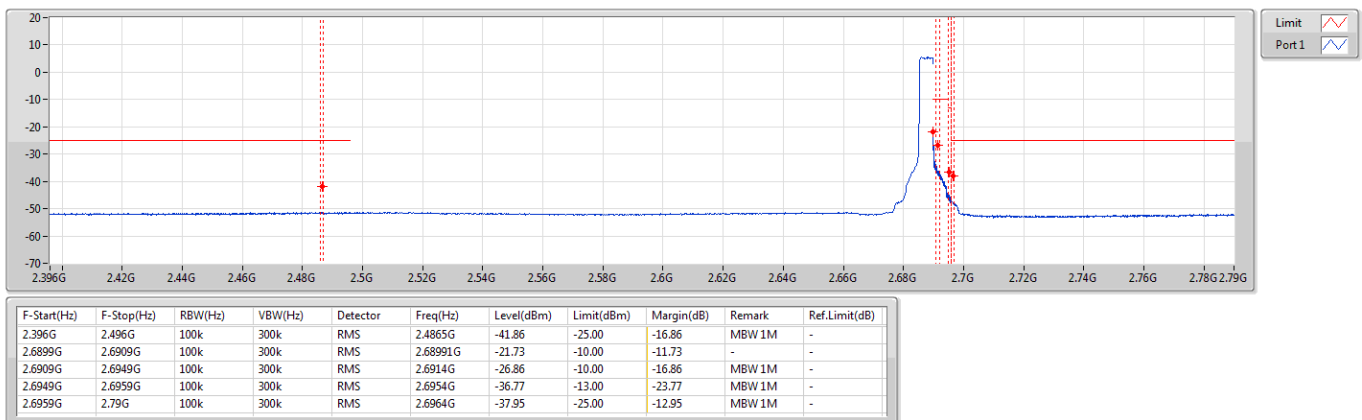
2687.5MHz_QPSK_RB 1,#RB 24



Band 41_LTE_5MHz_Nss1,QPSK_1TX

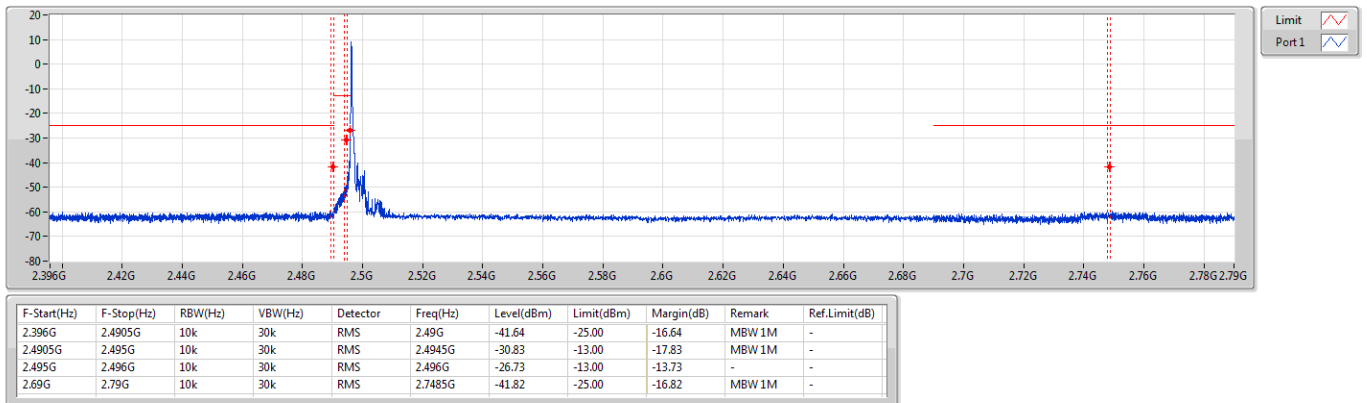
CSE-TX-Sum

2687.5MHz_QPSK_RB 25,#RB 0



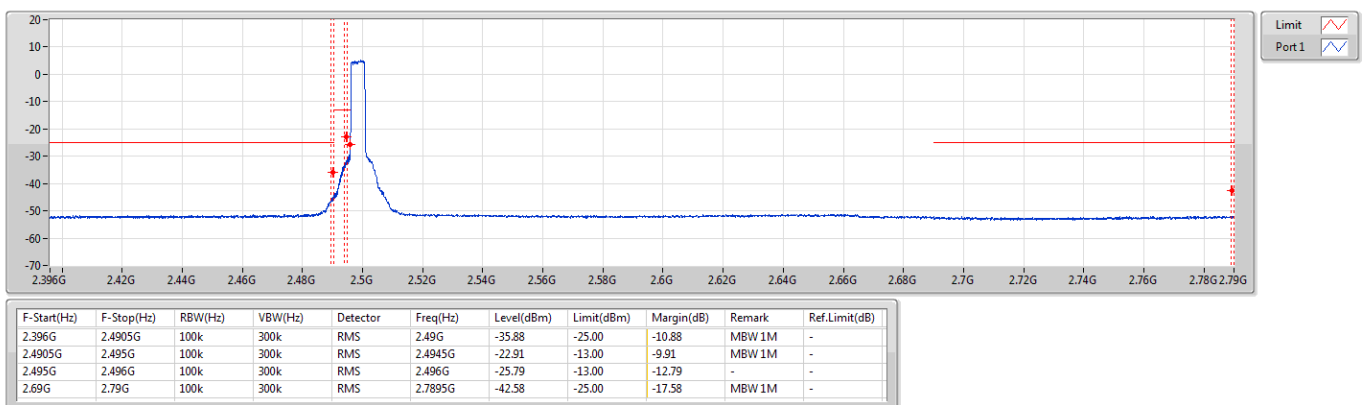
Band 41_LTE_5MHz_Nss1,16QAMCS_1TX
2498.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



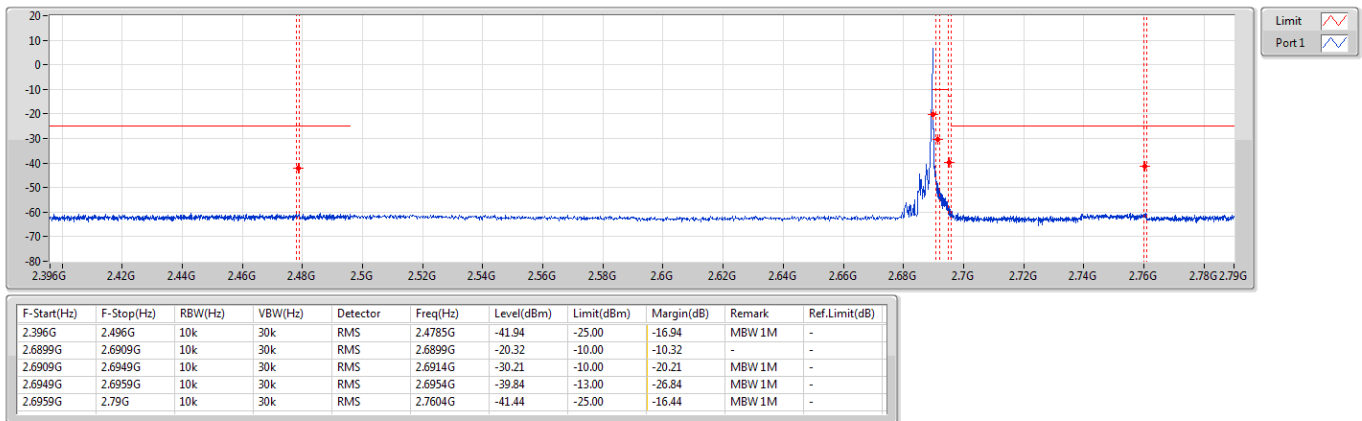
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2498.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



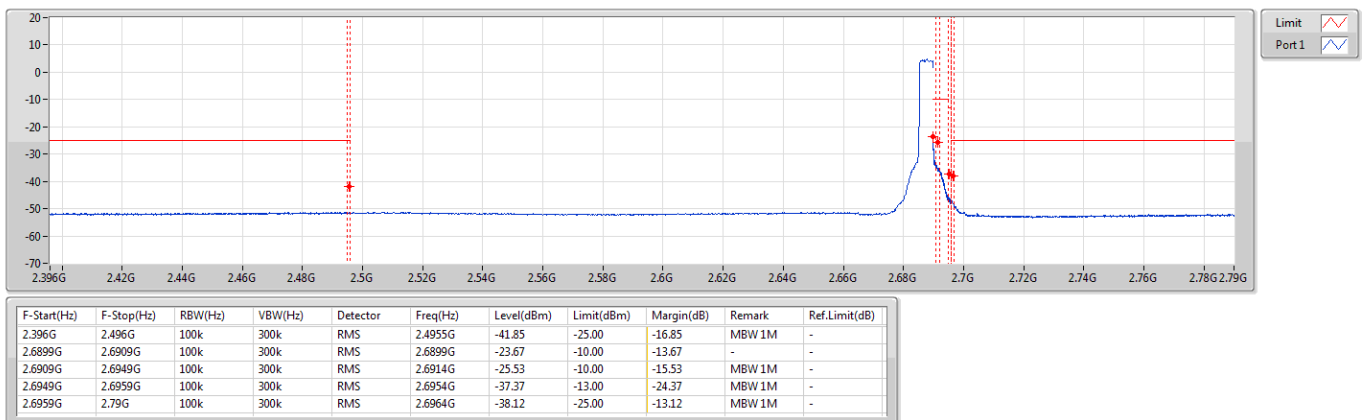
Band 41_LTE_5MHz_Nss1,16QAMCS_1TX
2687.5MHz_16QAM_RB 1,#RB 24

CSE-TX-Sum



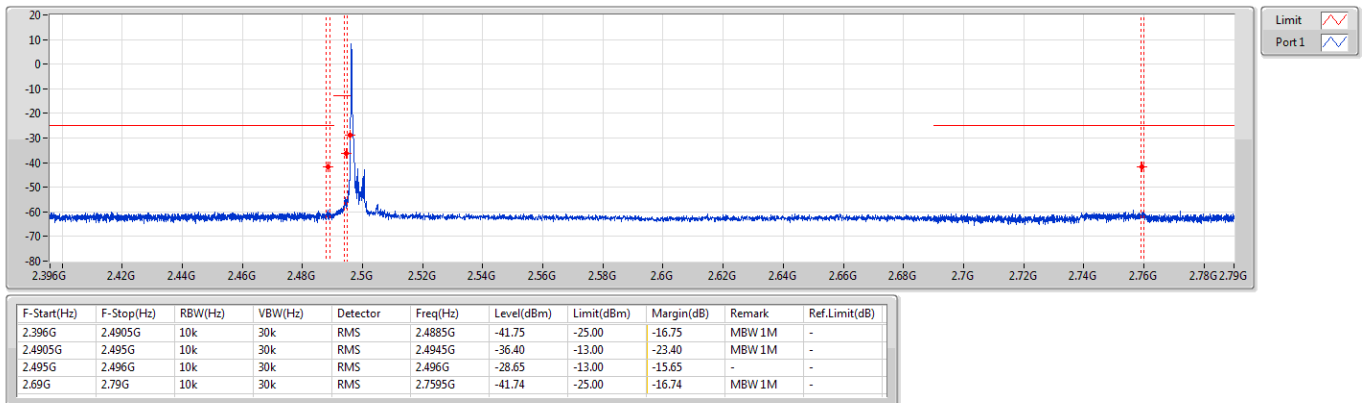
Band 41_LTE_5MHz_Nss1,16QAMCS_1TX
2687.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



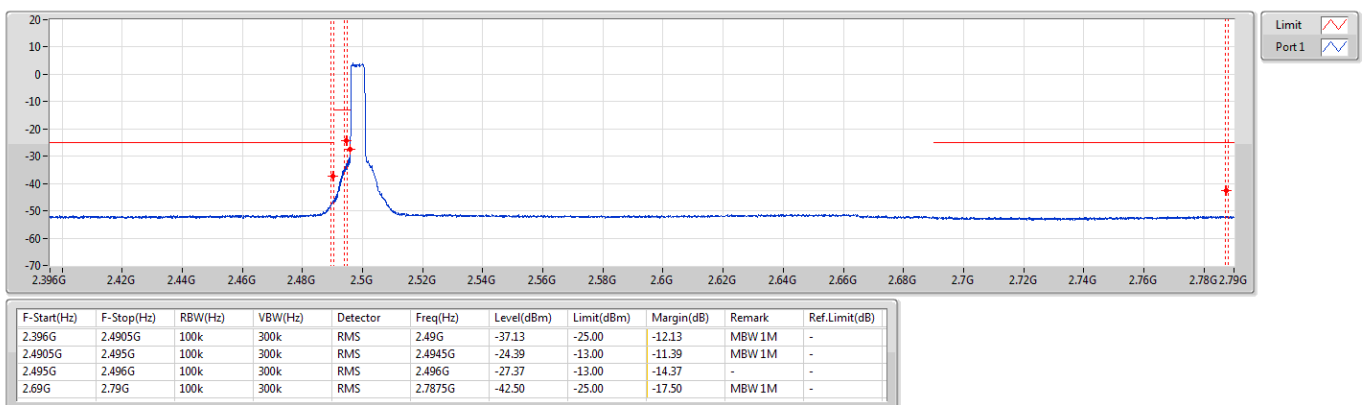
Band 41_LTE_5MHz_Nss1,64QAMCS_1TX
2498.5MHz_64QAM_RB 1,#RB 0

CSE-TX-Sum



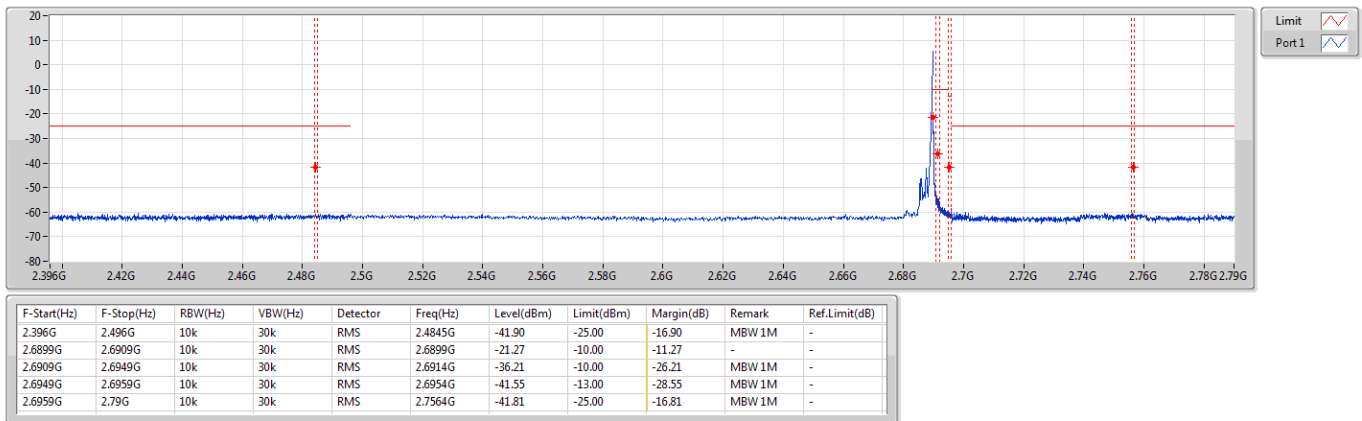
Band 41_LTE_5MHz_Nss1,64QAMCS_1TX
2498.5MHz_64QAM_RB 25,#RB 0

CSE-TX-Sum



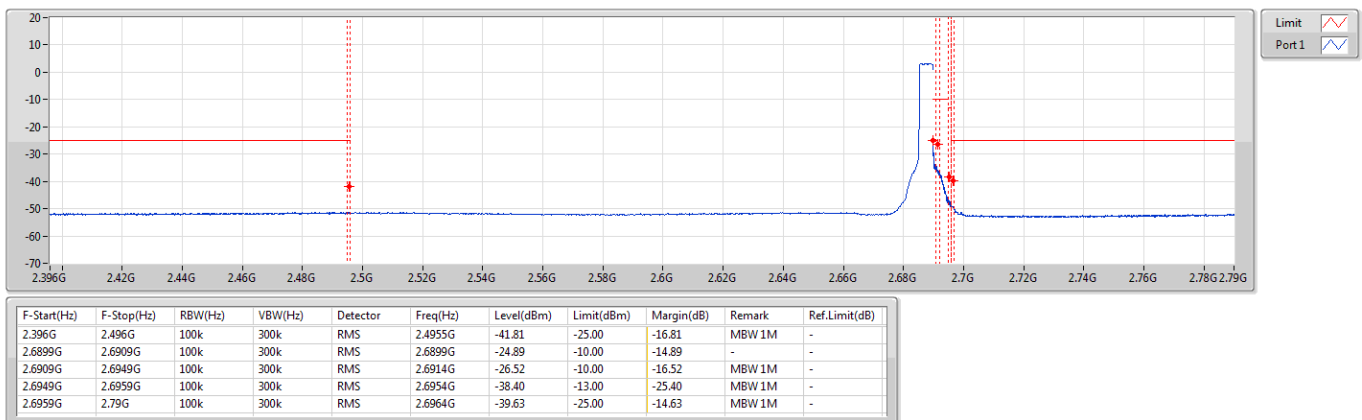
Band 41_LTE_5MHz_Nss1,64QAMCS_1TX
2687.5MHz_64QAM_RB 1,#RB 24

CSE-TX-Sum



Band 41_LTE_5MHz_Nss1,64QAMCS_1TX
2687.5MHz_64QAM_RB 25,#RB 0

CSE-TX-Sum



Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 7	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	19.175M	17.866M	17M9G7D	19.175M	17.866M
LTE_20MHz_Nss1,16QAM_1TX	19.1M	17.841M	17M8W7D	19.1M	17.841M
LTE_20MHz_Nss1,64QAM_1TX	19.175M	17.866M	17M9W7D	19.175M	17.866M
LTE_15MHz_Nss1,QPSK_1TX	14.513M	13.437M	13M4G7D	14.513M	13.437M
LTE_15MHz_Nss1,16QAM_1TX	14.7M	13.418M	13M4W7D	14.7M	13.418M
LTE_15MHz_Nss1,64QAM_1TX	14.588M	13.4M	13M4W7D	14.588M	13.4M
LTE_10MHz_Nss1,QPSK_1TX	9.625M	8.933M	8M93G7D	9.625M	8.933M
LTE_10MHz_Nss1,16QAM_1TX	9.613M	8.908M	8M91W7D	9.613M	8.908M
LTE_10MHz_Nss1,64QAM_1TX	9.638M	8.921M	8M92W7D	9.638M	8.921M
LTE_5MHz_Nss1,QPSK_1TX	4.994M	4.467M	4M47G7D	4.994M	4.467M
LTE_5MHz_Nss1,16QAM_1TX	4.9M	4.467M	4M47W7D	4.9M	4.467M
LTE_5MHz_Nss1,64QAM_1TX	4.856M	4.473M	4M47W7D	4.856M	4.473M

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

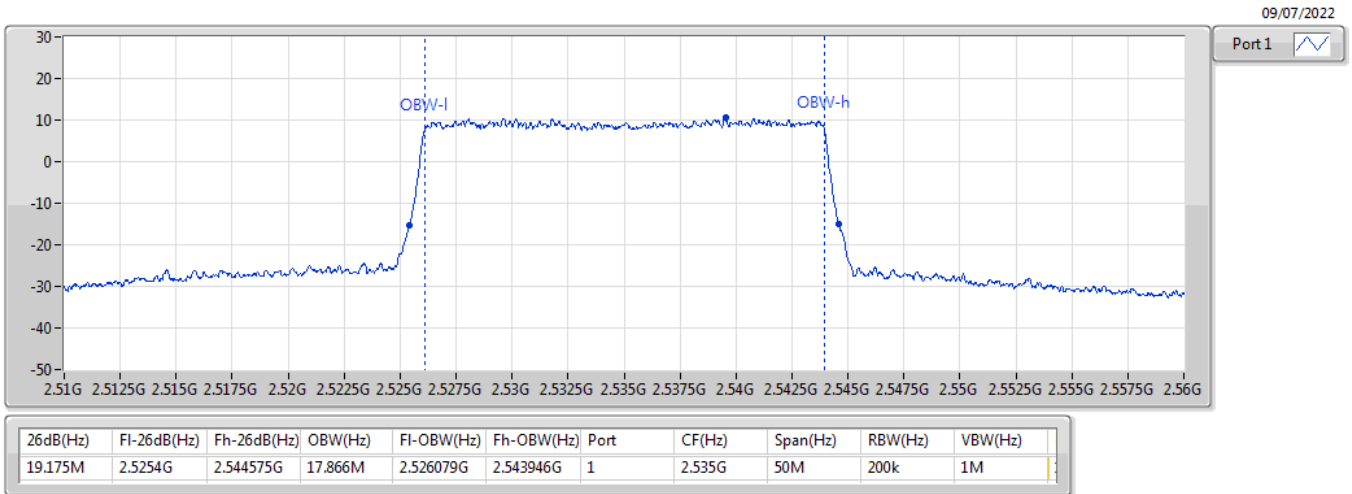
Result

Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Limit (Hz)
Band 7_LTE_20MHz_Nss1_1TX	-	-	-	-
2535MHz_QPSK_RB 100,#RB 0	Pass	19.175M	17.866M	Inf
2535MHz_16QAM_RB 100,#RB 0	Pass	19.1M	17.841M	Inf
2535MHz_64QAM_RB 100,#RB 0	Pass	19.175M	17.866M	Inf
Band 7_LTE_15MHz_Nss1_1TX	-	-	-	-
2535MHz_QPSK_RB 75,#RB 0	Pass	14.513M	13.437M	Inf
2535MHz_16QAM_RB 75,#RB 0	Pass	14.7M	13.418M	Inf
2535MHz_64QAM_RB 75,#RB 0	Pass	14.588M	13.4M	Inf
Band 7_LTE_10MHz_Nss1_1TX	-	-	-	-
2535MHz_QPSK_RB 50,#RB 0	Pass	9.625M	8.933M	Inf
2535MHz_16QAM_RB 50,#RB 0	Pass	9.613M	8.908M	Inf
2535MHz_64QAM_RB 50,#RB 0	Pass	9.638M	8.921M	Inf
Band 7_LTE_5MHz_Nss1_1TX	-	-	-	-
2535MHz_QPSK_RB 25,#RB 0	Pass	4.994M	4.467M	Inf
2535MHz_16QAM_RB 25,#RB 0	Pass	4.9M	4.467M	Inf
2535MHz_64QAM_RB 25,#RB 0	Pass	4.856M	4.473M	Inf

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

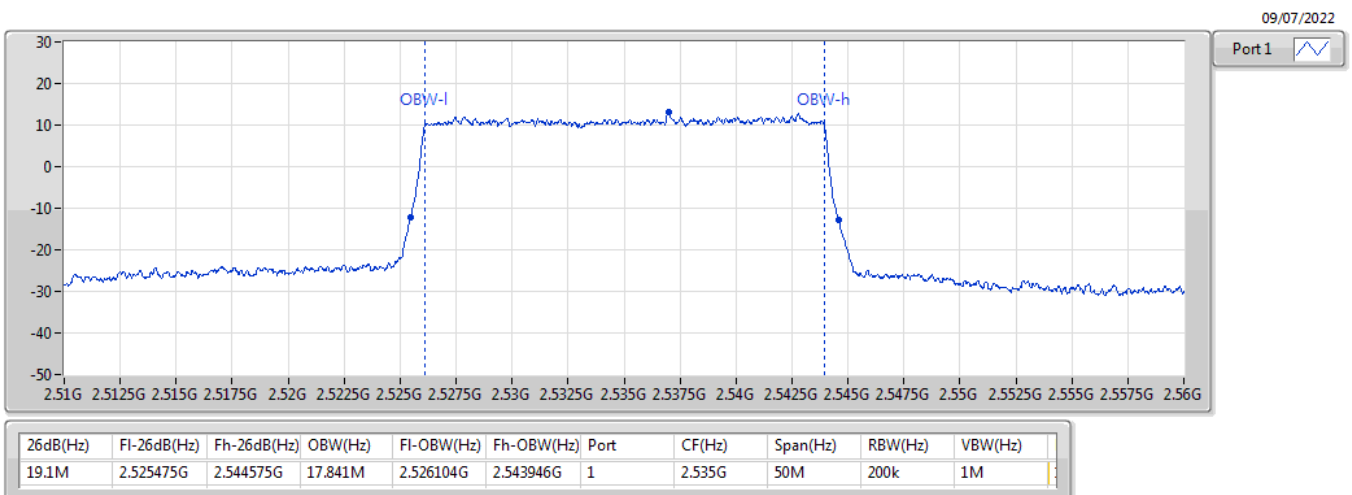
Band 7_LTE_20MHz_Nss1,QPSK_1TX 2535MHz_QPSK_RB 100,#RB 0

EBW



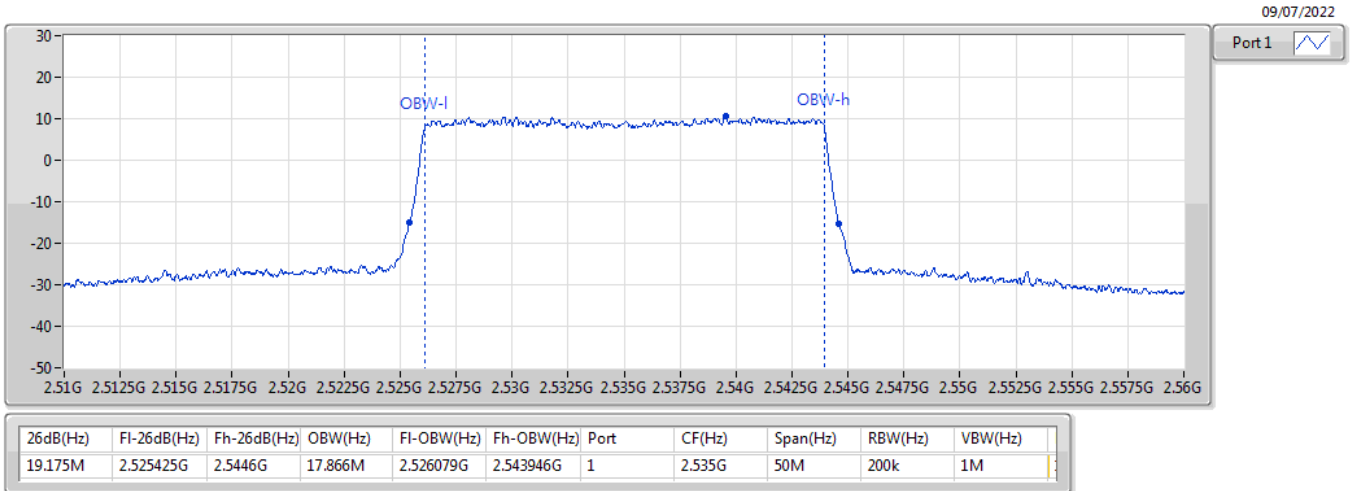
Band 7_LTE_20MHz_Nss1,16QAMCS_1TX 2535MHz_16QAM_RB 100,#RB 0

EBW



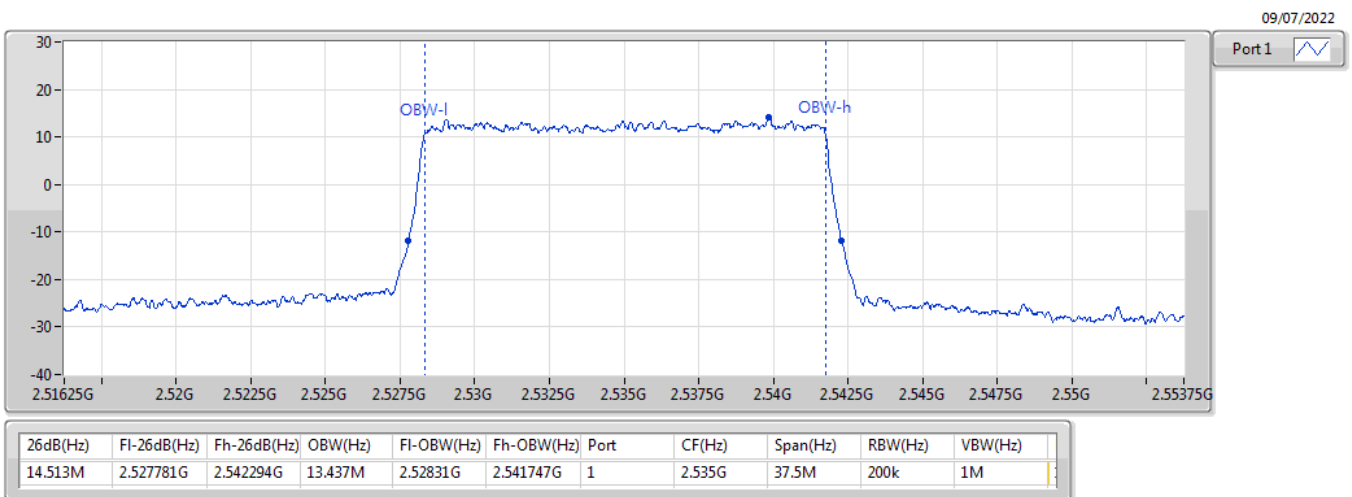
Band 7_LTE_20MHz_Nss1,64QAMCS_1TX 2535MHz_64QAM_RB 100,#RB 0

EBW



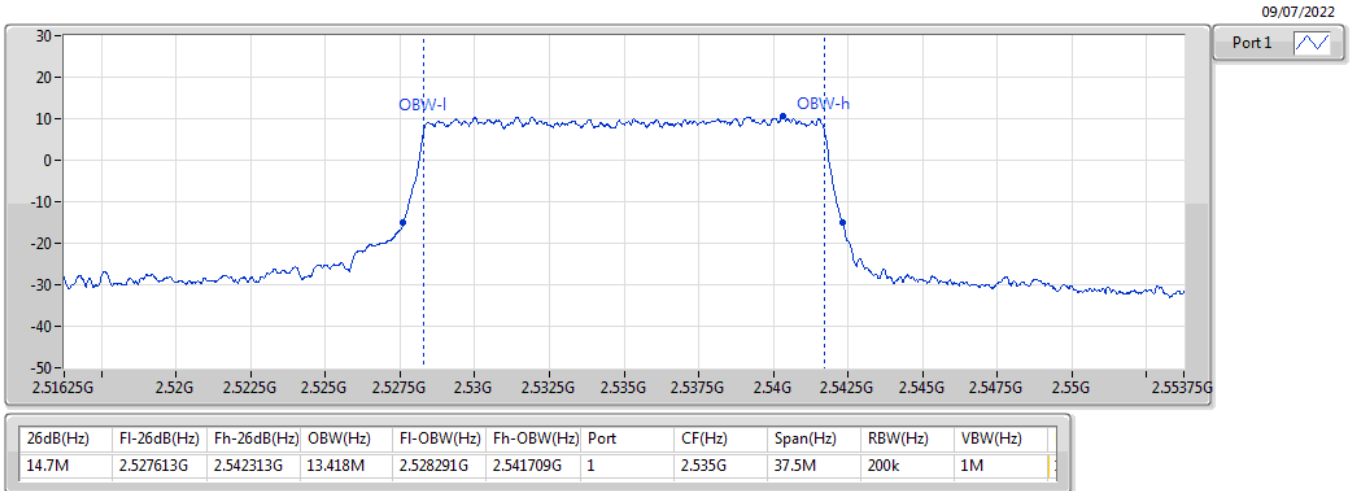
Band 7_LTE_15MHz_Nss1,QPSK_1TX 2535MHz_QPSK_RB 75,#RB 0

EBW



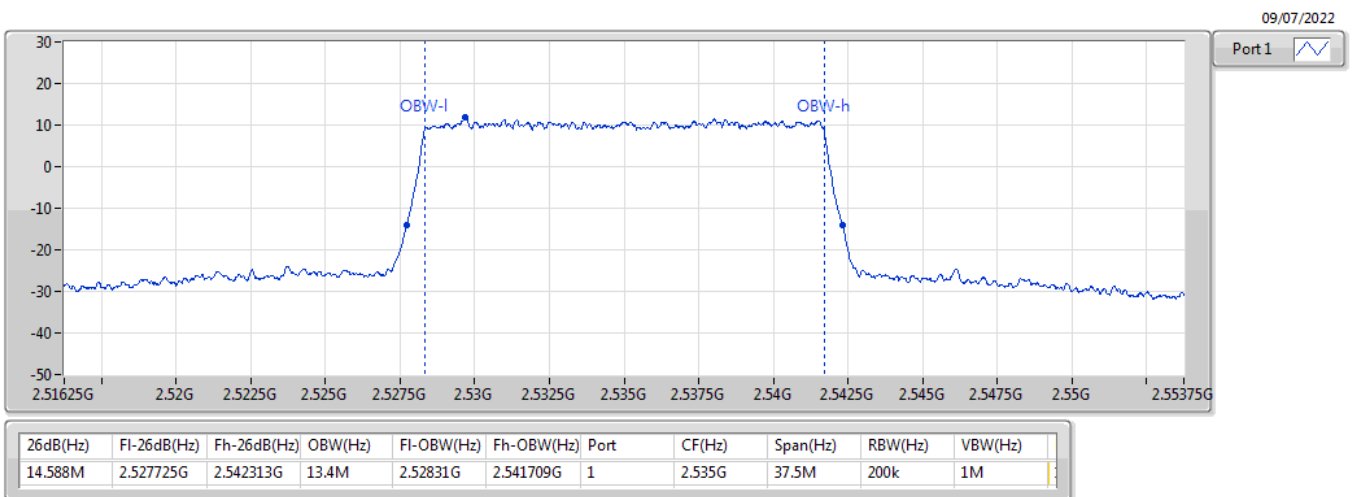
Band 7_LTE_15MHz_Nss1,16QAMCS_1TX 2535MHz_16QAM_RB 75,#RB 0

EBW



Band 7_LTE_15MHz_Nss1,64QAMCS_1TX 2535MHz_64QAM_RB 75,#RB 0

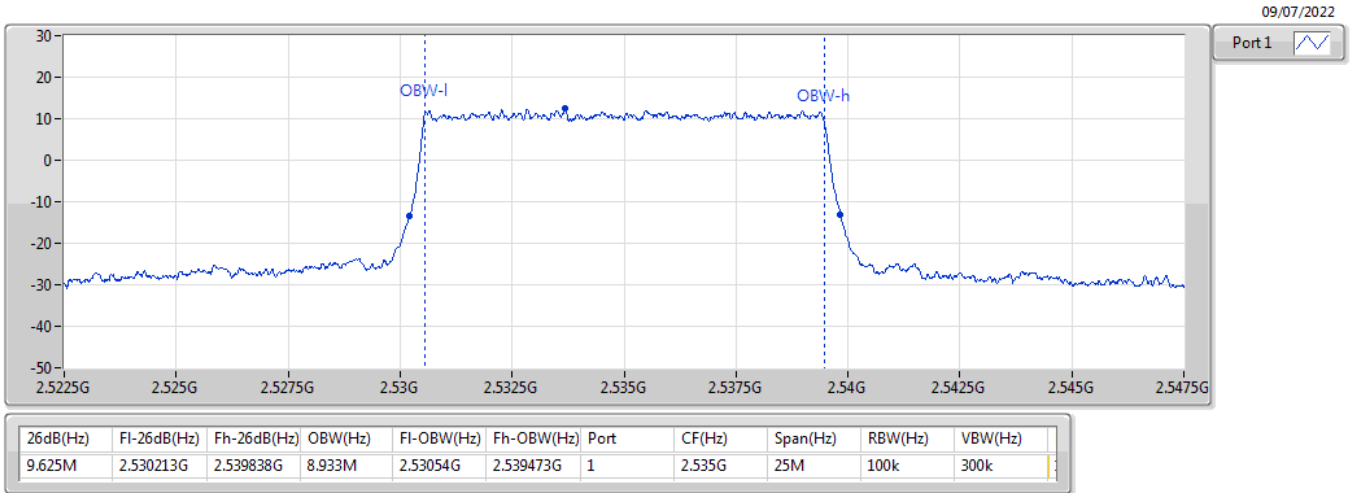
EBW



Band 7_LTE_10MHz_Nss1,QPSK_1TX

EBW

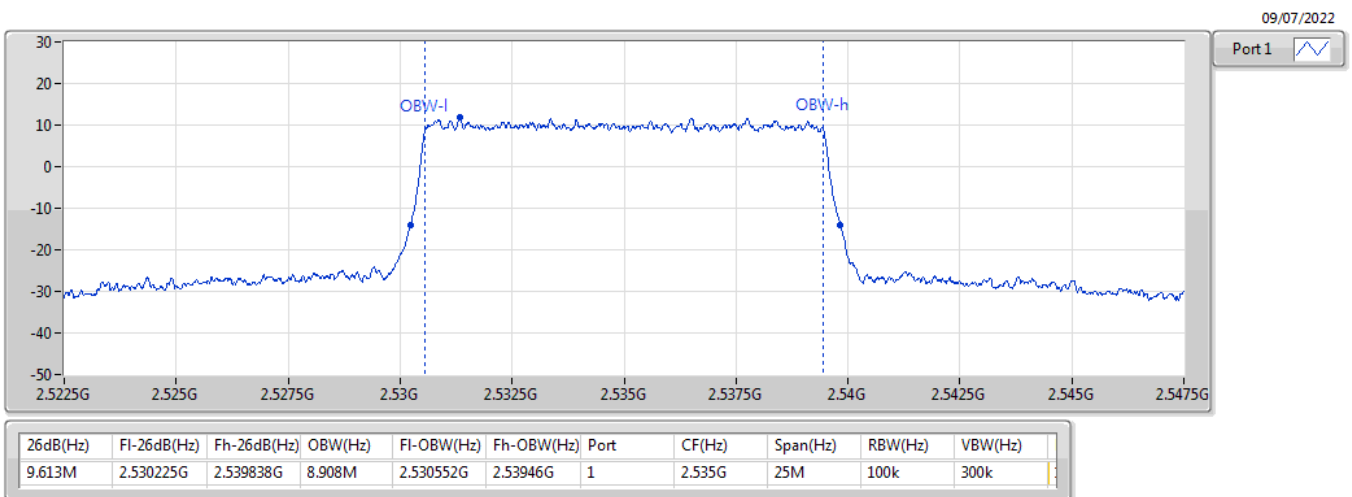
2535MHz_QPSK_RB 50,#RB 0



Band 7_LTE_10MHz_Nss1,16QAMCS_1TX

EBW

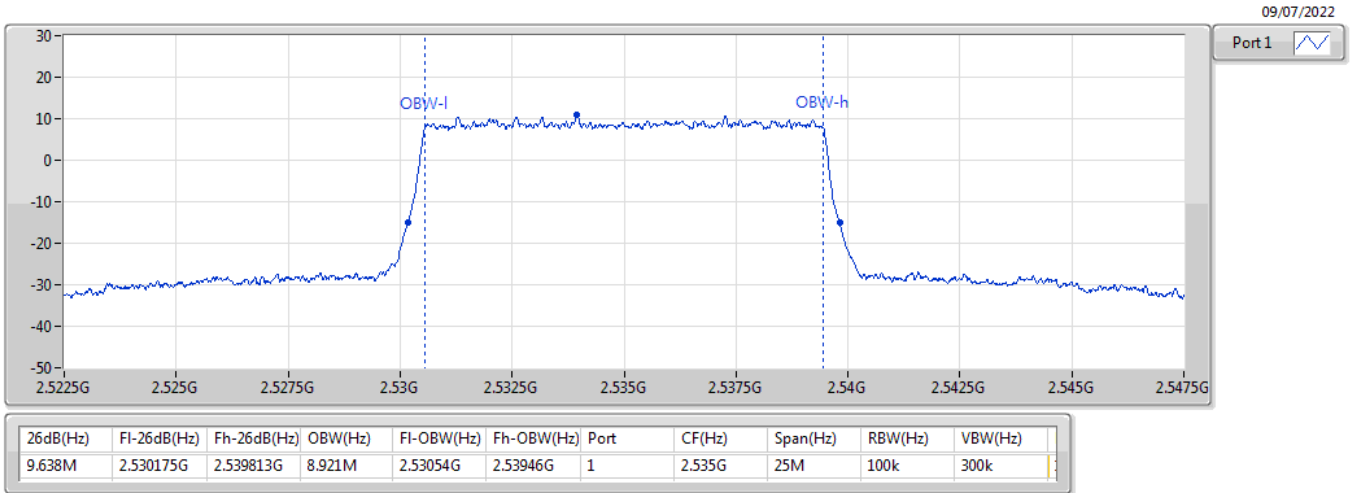
2535MHz_16QAM_RB 50,#RB 0



Band 7_LTE_10MHz_Nss1,64QAMCS_1TX

EBW

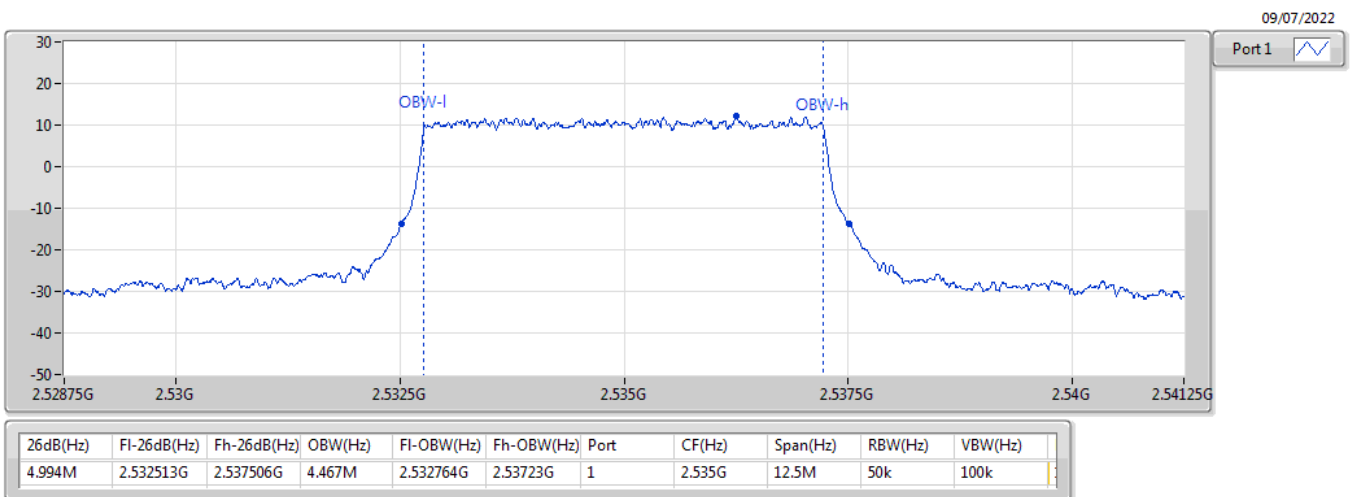
2535MHz_64QAM_RB 50,#RB 0



Band 7_LTE_5MHz_Nss1,QPSK_1TX

EBW

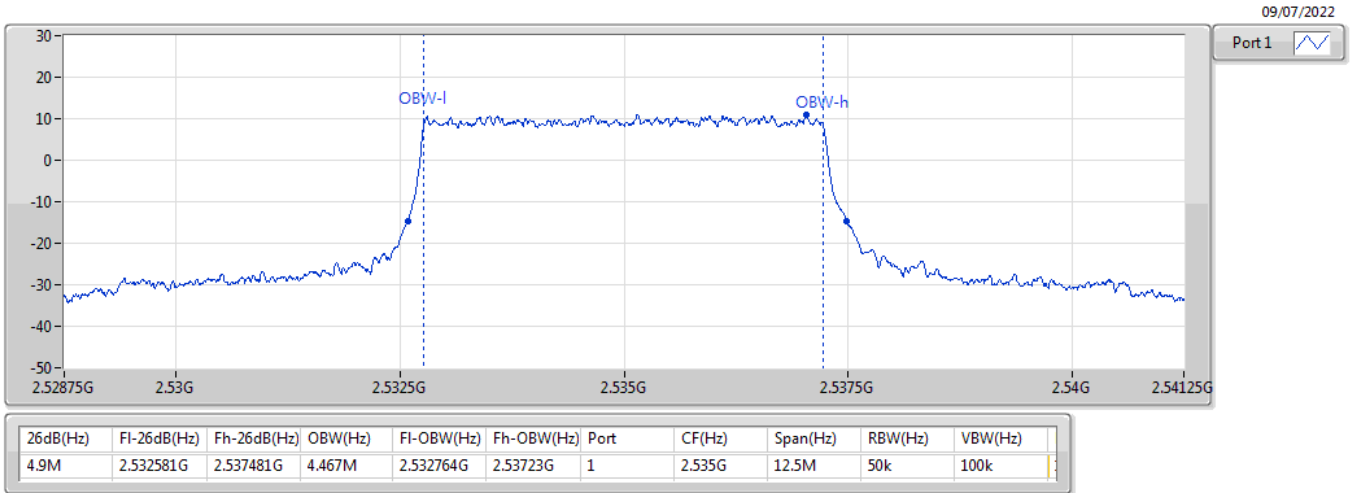
2535MHz_QPSK_RB 25,#RB 0



Band 7_LTE_5MHz_Nss1,16QAMCS_1TX

EBW

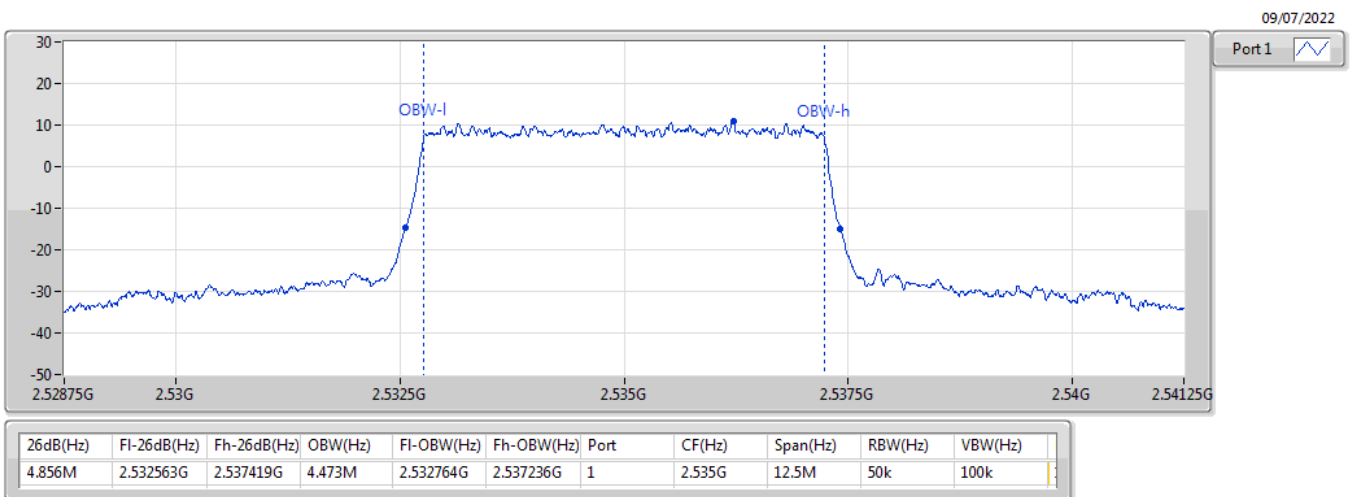
2535MHz_16QAM_RB 25,#RB 0



Band 7_LTE_5MHz_Nss1,64QAMCS_1TX

EBW

2535MHz_64QAM_RB 25,#RB 0



Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 41	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	19.075M	17.816M	17M8G7D	19.075M	17.816M
LTE_20MHz_Nss1,16QAM_1TX	19M	17.816M	17M8W7D	19M	17.816M
LTE_20MHz_Nss1,64QAM_1TX	19.175M	17.866M	17M9W7D	19.175M	17.866M
LTE_15MHz_Nss1,QPSK_1TX	15.019M	13.437M	13M4G7D	15.019M	13.437M
LTE_15MHz_Nss1,16QAM_1TX	14.663M	13.418M	13M4W7D	14.663M	13.418M
LTE_15MHz_Nss1,64QAM_1TX	14.644M	13.381M	13M4W7D	14.644M	13.381M
LTE_10MHz_Nss1,QPSK_1TX	9.513M	8.921M	8M92G7D	9.513M	8.921M
LTE_10MHz_Nss1,16QAM_1TX	9.95M	8.933M	8M93W7D	9.95M	8.933M
LTE_10MHz_Nss1,64QAM_1TX	9.913M	8.946M	8M95W7D	9.913M	8.946M
LTE_5MHz_Nss1,QPSK_1TX	4.856M	4.46M	4M46G7D	4.856M	4.46M
LTE_5MHz_Nss1,16QAM_1TX	4.925M	4.46M	4M46W7D	4.925M	4.46M
LTE_5MHz_Nss1,64QAM_1TX	4.85M	4.473M	4M47W7D	4.85M	4.473M

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

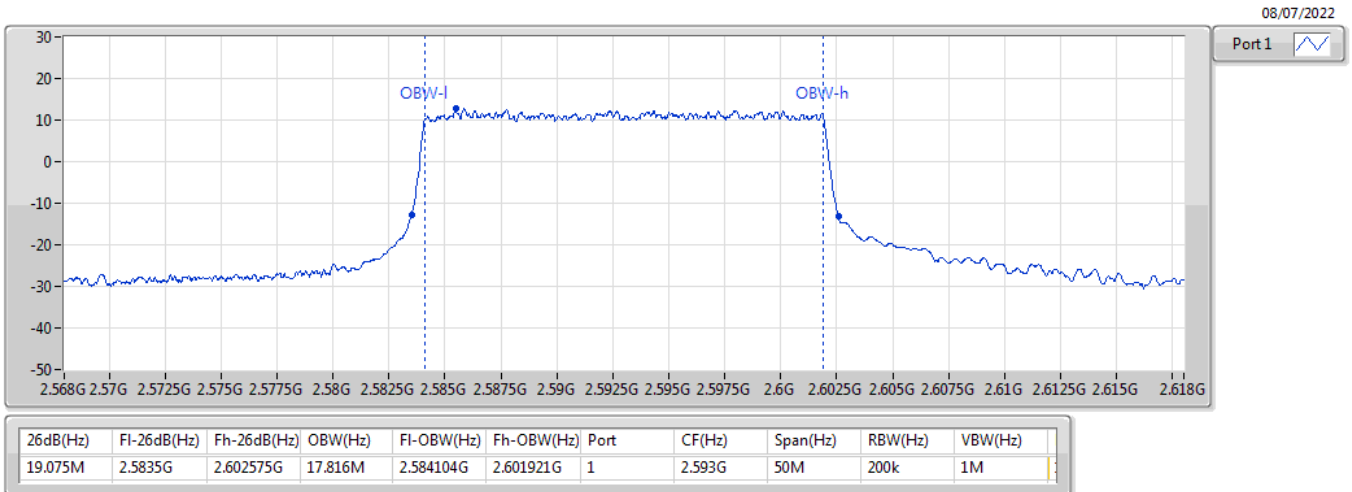
Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Limit (Hz)
Band 41_LTE_20MHz_Nss1_1TX	-	-	-	-
2593MHz_QPSK_RB 100,#RB 0	Pass	19.075M	17.816M	Inf
2593MHz_16QAM_RB 100,#RB 0	Pass	19M	17.816M	Inf
2593MHz_64QAM_RB 100,#RB 0	Pass	19.175M	17.866M	Inf
Band 41_LTE_15MHz_Nss1_1TX	-	-	-	-
2593MHz_QPSK_RB 75,#RB 0	Pass	15.019M	13.437M	Inf
2593MHz_16QAM_RB 75,#RB 0	Pass	14.663M	13.418M	Inf
2593MHz_64QAM_RB 75,#RB 0	Pass	14.644M	13.381M	Inf
Band 41_LTE_10MHz_Nss1_1TX	-	-	-	-
2593MHz_QPSK_RB 50,#RB 0	Pass	9.513M	8.921M	Inf
2593MHz_16QAM_RB 50,#RB 0	Pass	9.95M	8.933M	Inf
2593MHz_64QAM_RB 50,#RB 0	Pass	9.913M	8.946M	Inf
Band 41_LTE_5MHz_Nss1_1TX	-	-	-	-
2593MHz_QPSK_RB 25,#RB 0	Pass	4.856M	4.46M	Inf
2593MHz_16QAM_RB 25,#RB 0	Pass	4.925M	4.46M	Inf
2593MHz_64QAM_RB 25,#RB 0	Pass	4.85M	4.473M	Inf

Port X-N dB = Port X 26dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

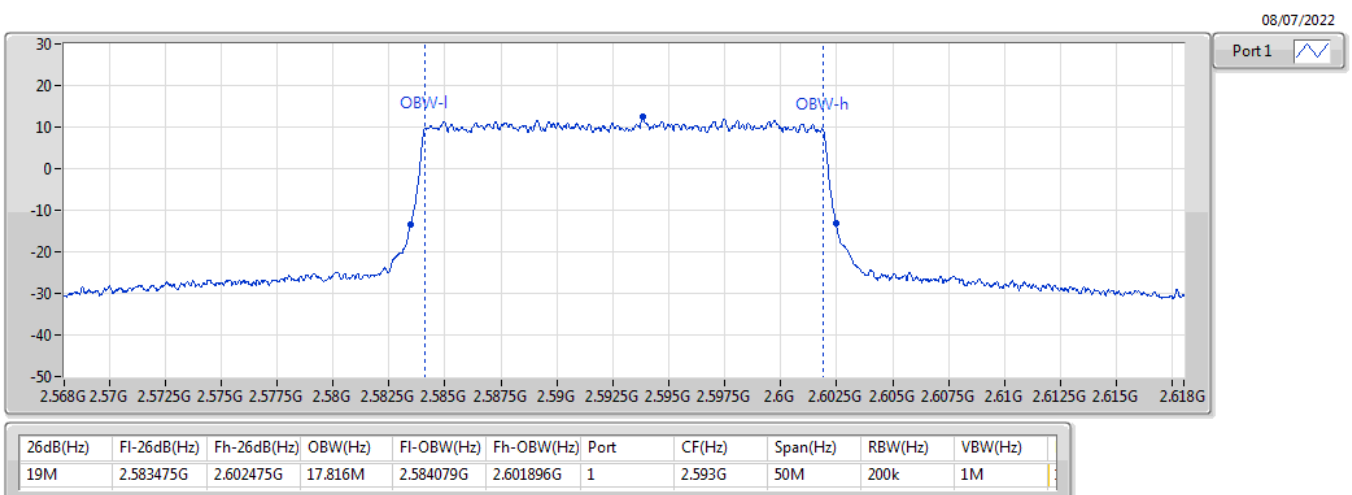
Band 41_LTE_20MHz_Nss1,QPSK_1TX 2593MHz_QPSK_RB 100,#RB 0

EBW



Band 41_LTE_20MHz_Nss1,16QAMCS_1TX 2593MHz_16QAM_RB 100,#RB 0

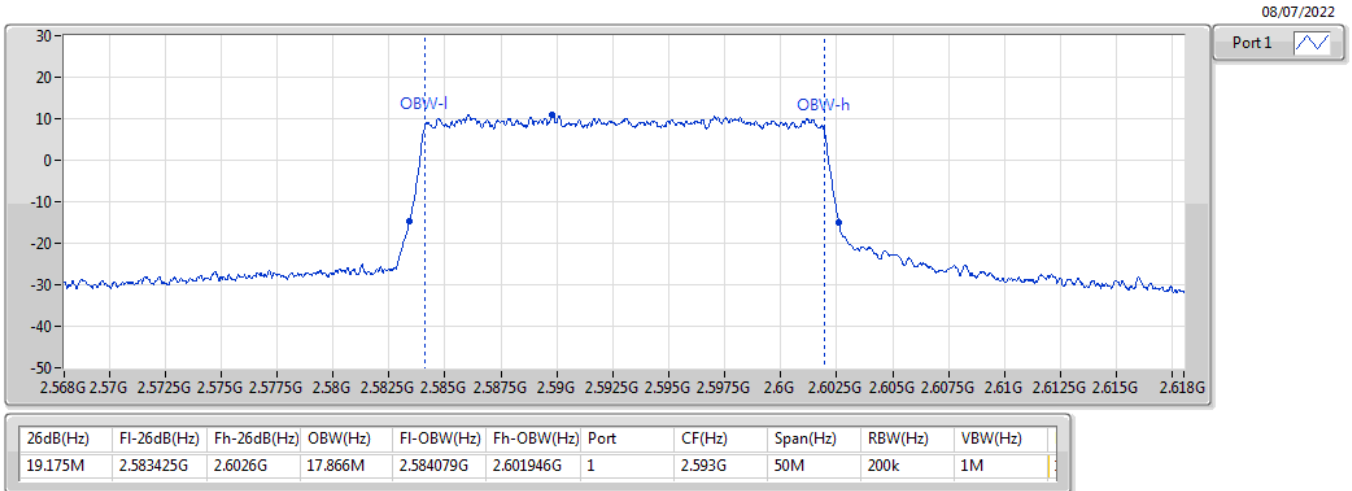
EBW



Band 41_LTE_20MHz_Nss1,64QAMCS_1TX

EBW

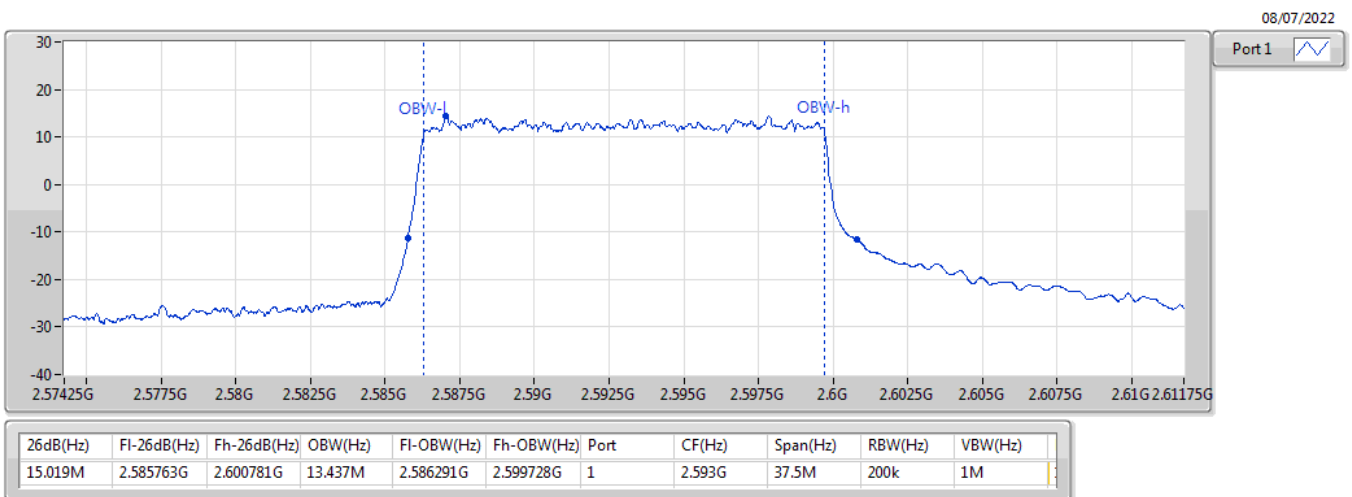
2593MHz_64QAM_RB 100,#RB 0



Band 41_LTE_15MHz_Nss1,QPSK_1TX

EBW

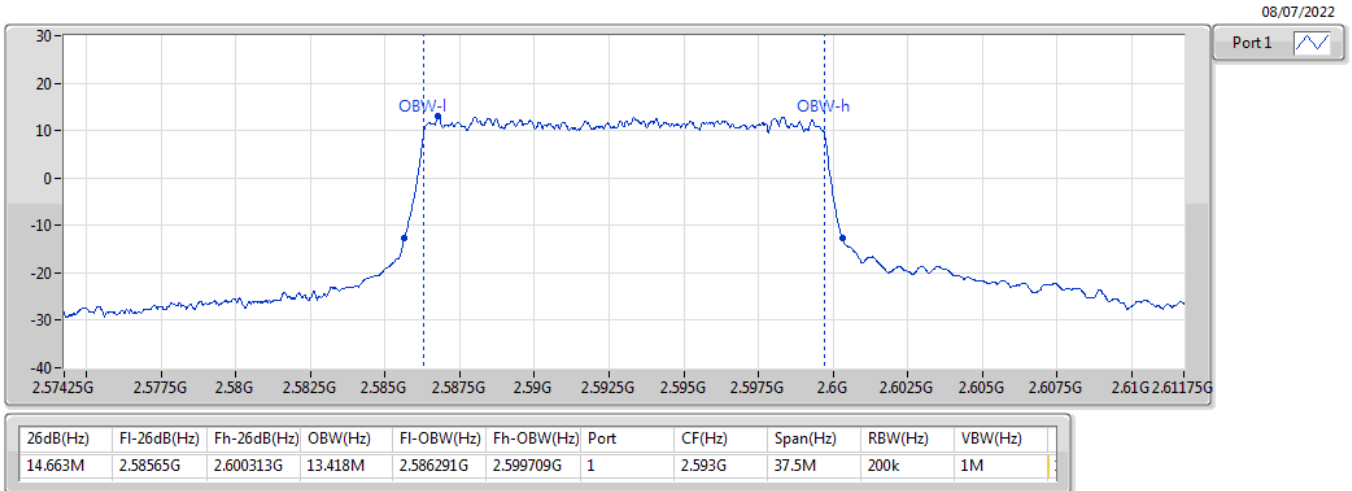
2593MHz_QPSK_RB 75,#RB 0



Band 41_LTE_15MHz_Nss1,16QAMCS_1TX

EBW

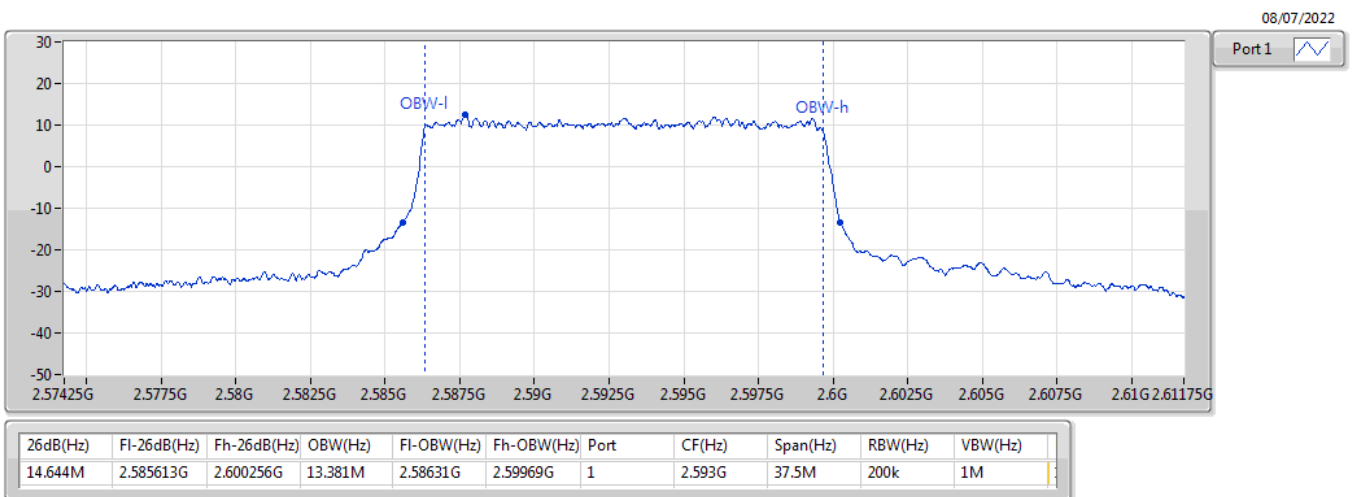
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Band 41_LTE_15MHz_Nss1,64QAMCS_1TX

EBW

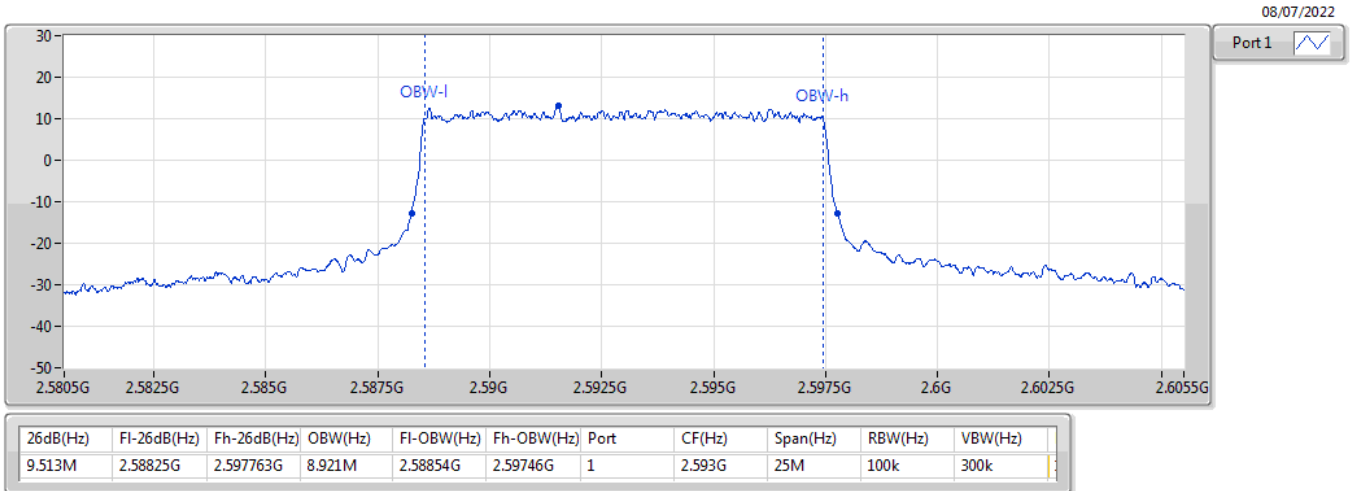
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Band 41_LTE_10MHz_Nss1,QPSK_1TX

EBW

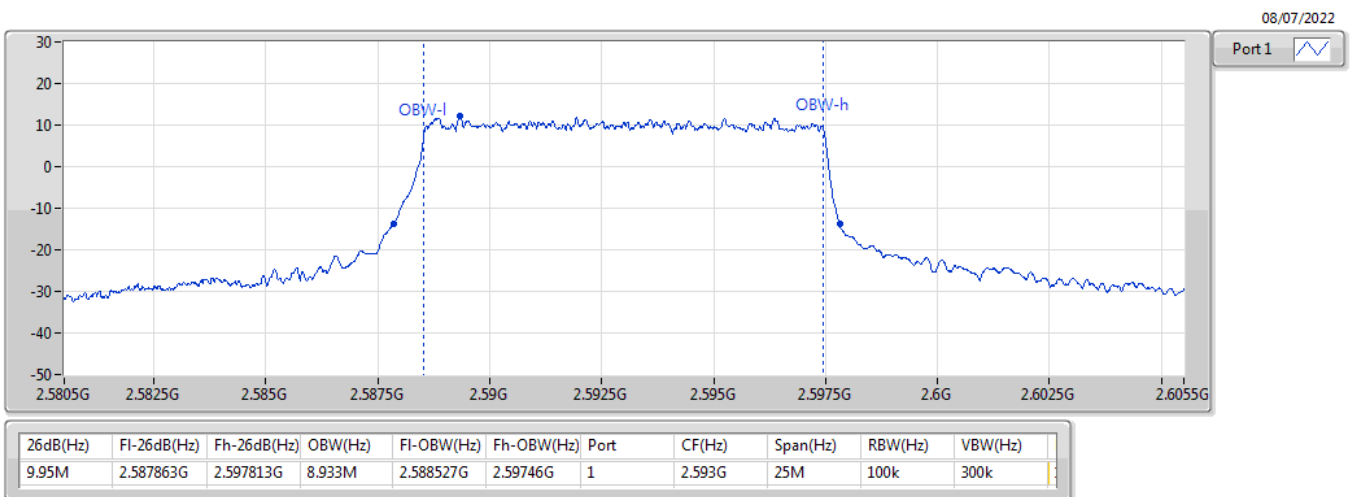
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Band 41_LTE_10MHz_Nss1,16QAMCS_1TX

EBW

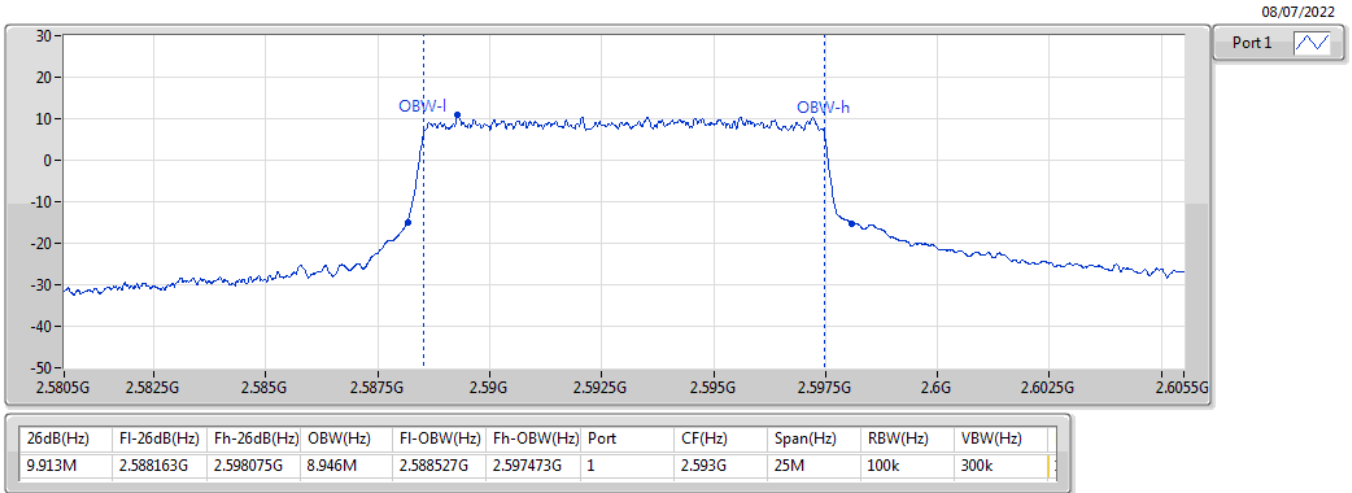
2593MHz_16QAM_RB 50,#RB 0



Band 41_LTE_10MHz_Nss1,64QAMCS_1TX

EBW

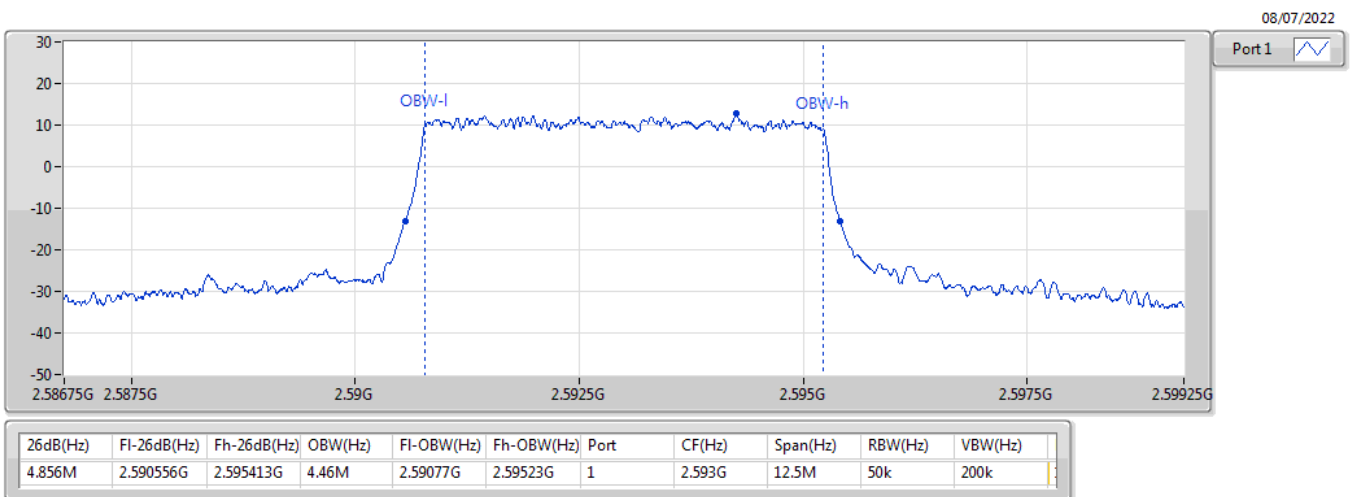
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Band 41_LTE_5MHz_Nss1,QPSK_1TX

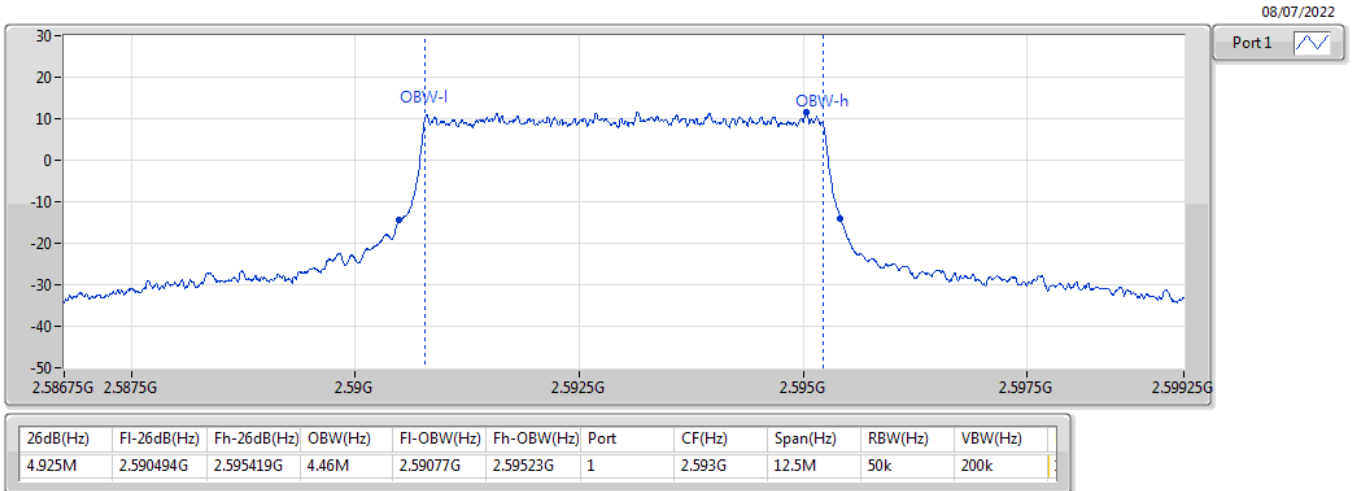
EBW

2593MHz_QPSK_RB 25,#RB 0



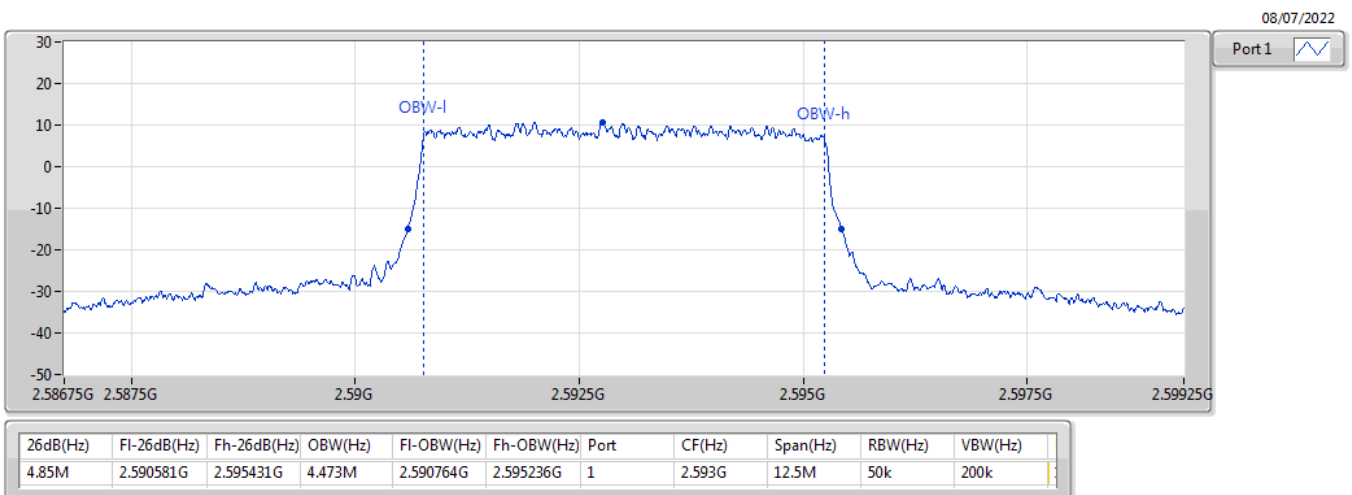
Band 41_LTE_5MHz_Nss1,16QAMCS_1TX 2593MHz_16QAM_RB 25,#RB 0

EBW



Band 41_LTE_5MHz_Nss1,64QAMCS_1TX 2593MHz_64QAM_RB 25,#RB 0

EBW



Ref. Freq:	2535MHz	
Test Conditions	LTE Band 7(QPSK) / Middle channel	
Temperature (°C)	Deviation (ppm)	Limit
		Result ^{Note 1}
T20°C Vmax	0.02	PASS
T20°C Vmin	0.01	
T70°C Vnom	0.02	
T60°C Vnom	0.02	
T50°C Vnom	0.02	
T40°C Vnom	0.02	
T30°C Vnom	0.02	
T20°C Vnom	0.01	
T10°C Vnom	0.01	
T0°C Vnom	0.02	
T-10°C Vnom	0.02	
T-20°C Vnom	0.02	
T-30°C Vnom	0.02	

Note:

1. The frequency fundamental emissions stay within the authorized frequency block.

Ref. Freq:	2593MHz	
Test Conditions	LTE Band 41(QPSK) / Middle channel	
Temperature (°C)	Deviation (ppm)	Limit
		Result ^{Note 1}
T20°CVmax	0.02	PASS
T20°CVmin	0.01	
T70°CVnom	0.02	
T60°CVnom	0.01	
T50°CVnom	0.01	
T40°CVnom	0.02	
T30°CVnom	0.02	
T20°CVnom	0.02	
T10°CVnom	0.02	
T0°CVnom	0.02	
T-10°CVnom	0.01	
T-20°CVnom	0.01	
T-30°CVnom	0.01	

Note:

1. The frequency fundamental emissions stay within the authorized frequency block.

**Summary**

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 7	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2535	13.00	4.20	1
LTE_20MHz_Nss1,16QAM_1TX	Pass	2535	13.00	5.86	1
LTE_20MHz_Nss1,64QAM_1TX	Pass	2535	13.00	6.20	1

Result

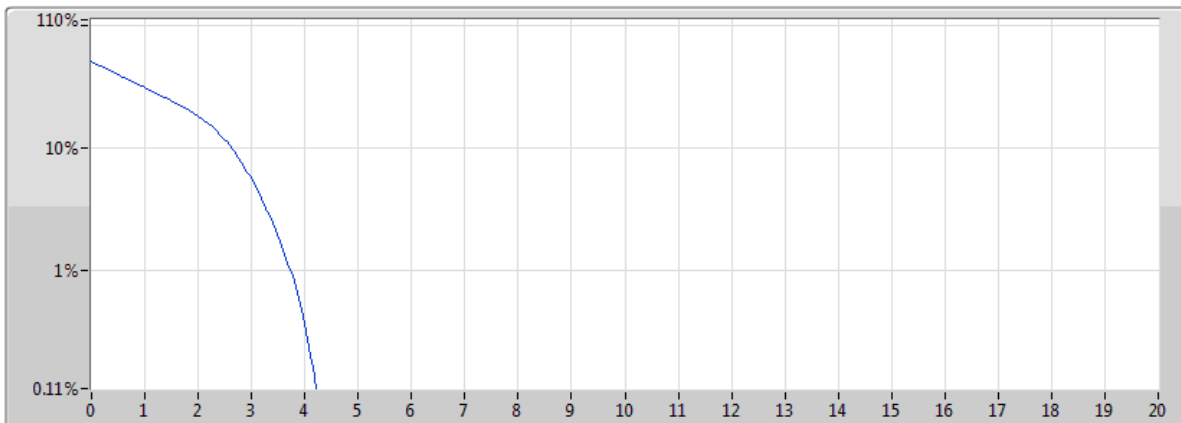
Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 7_LTE_20MHz_Nss1_1TX	-	-	-	-	-
2535MHz_QPSK_RB 100,#RB 0	Pass	2535	13.00	4.20	1
2535MHz_16QAM_RB 100,#RB 0	Pass	2535	13.00	5.86	1
2535MHz_64QAM_RB 100,#RB 0	Pass	2535	13.00	6.20	1

Band 7_LTE_20MHz_Nss1,QPSK_1TX

PAPR

2535MHz_QPSK_RB 100,#RB 0

09/07/2022



Port 1 

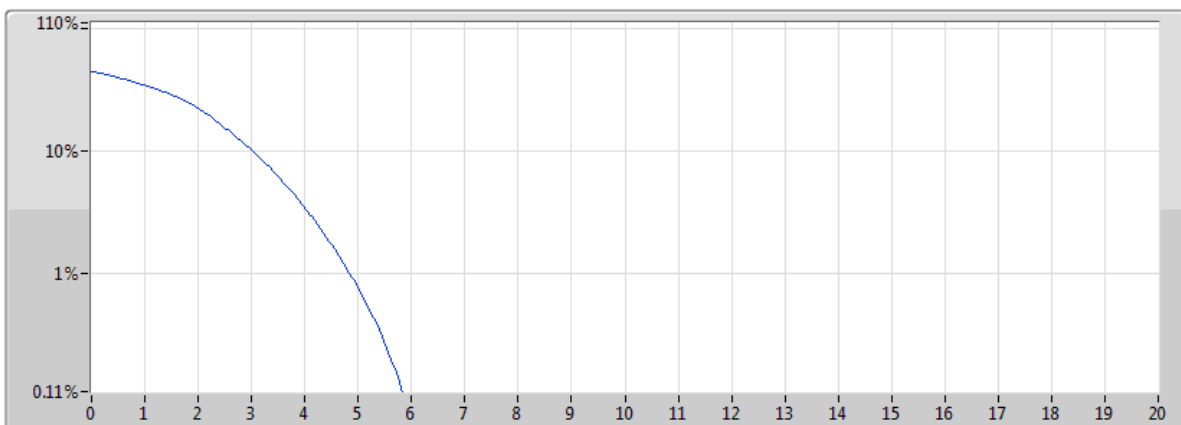
Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
2535	20M	4.20	-8.80	13.00	1

Band 7_LTE_20MHz_Nss1,16QAMCS_1TX

PAPR

2535MHz_16QAM_RB 100,#RB 0

09/07/2022



Port 1 

Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
2535	20M	5.86	-7.14	13.00	1

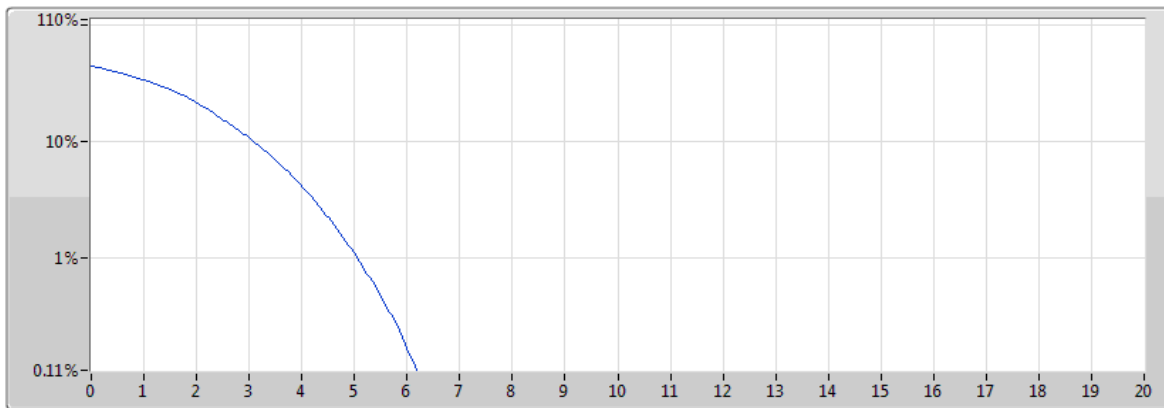
Band 7_LTE_20MHz_Nss1,64QAMCS_1TX

PAPR

2535MHz_64QAM_RB 100,#RB 0

09/07/2022

Port1



Freq (MHz)	MBW(Hz)	0.1 %	Margin(dB)	Limit(dB)	Port
2535	20M	6.20	-6.80	13.00	1

**Summary**

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 41	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	2593	13.00	5.67	1
LTE_20MHz_Nss1,16QAM_1TX	Pass	2593	13.00	6.53	1
LTE_20MHz_Nss1,64QAM_1TX	Pass	2593	13.00	6.58	1

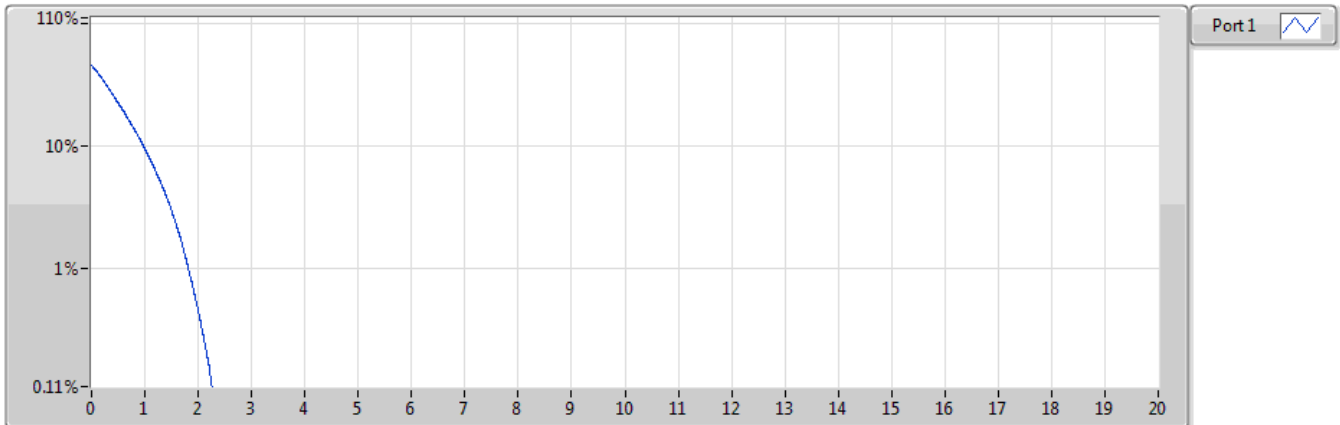
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 41_LTE_20MHz_Nss1_1TX	-	-	-	-	-
2593MHz_QPSK_RB 100,#RB 0	Pass	2593	13.00	5.67	1
2593MHz_16QAM_RB 100,#RB 0	Pass	2593	13.00	6.53	1
2593MHz_64QAM_RB 100,#RB 0	Pass	2593	13.00	6.58	1

Band 41_LTE_20MHz_Nss1,QPSK_1TX

PAPR

2593MHz_QPSK_RB 100,#RB 0

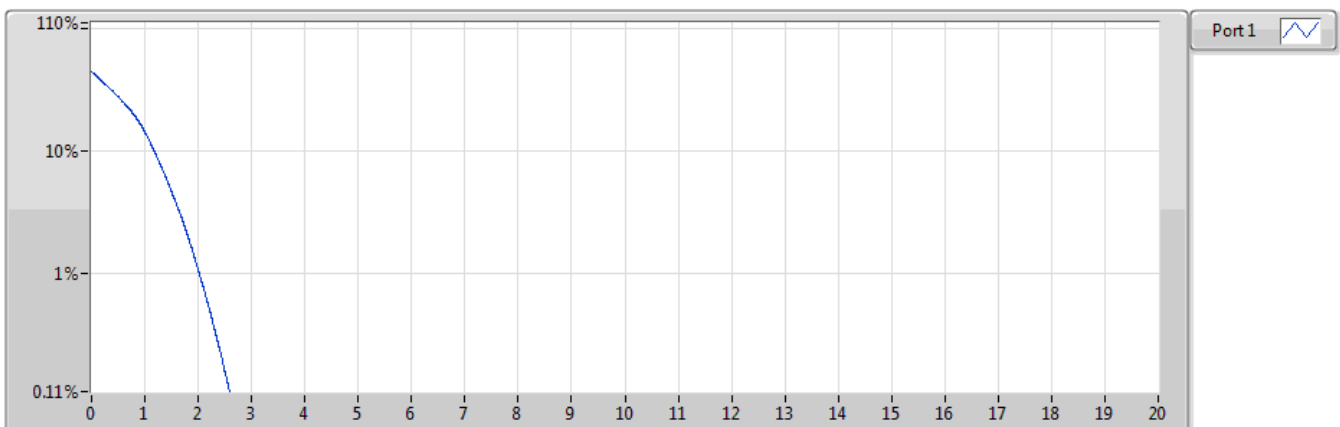


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
2593	20M	5.67	-7.33	13.00	1

Band 41_LTE_20MHz_Nss1,16QAMCS_1TX

PAPR

2593MHz_16QAM_RB 100,#RB 0

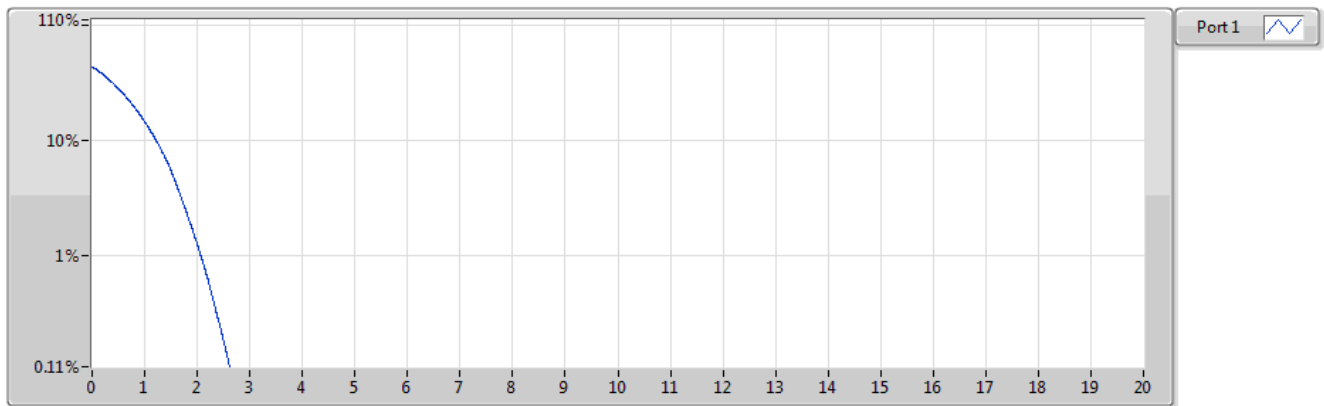


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
2593	20M	6.53	-6.47	13.00	1

Band 41_LTE_20MHz_Nss1,64QAMCS_1TX

PAPR

2593MHz_64QAM_RB 100,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
2593	20M	6.58	-6.42	13.00	1