

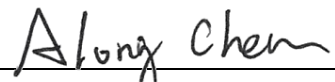
FCC Test Report

FCC ID : 2A7G3XS5G01
Equipment : 5G SOM
Model No. : XS5G01-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 22 Subpart H
Received Date : Dec. 01, 2022
Tested Date : Dec. 23, 2022 ~ Feb. 09, 2023

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:

Approved by:


Along Chen / Assistant Manager

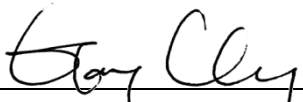

Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	9
1.3	Test Setup Chart	9
1.4	The Equipment List	10
1.5	Test Standards	11
1.6	Reference Guidance	11
1.7	Deviation from Test Standard and Measurement Procedure.....	11
1.8	Measurement Uncertainty	12
2	TEST CONFIGURATION.....	13
2.1	Testing Condition and Location Information.....	13
2.2	Testing Facility	13
2.3	The Worst Test Modes and Channel Details	14
3	TEST RESULTS	15
3.1	Effective Radiated Power	15
3.2	Radiated Emissions.....	16
3.3	Out of Band Emissions & Band Edge	18
3.4	Occupied and 26 dB Bandwidth.....	19
3.5	Peak to Average Power Ratio	20
3.6	Frequency Stability.....	21
4	TEST LABORATORY INFORMATION	22

LTE BAND 26

APPENDIX A.1 TEST RESULTS FOR EFFECTIVE RADIATED POWER

APPENDIX B.1 TEST RESULTS FOR RADIATED EMISSIONS

APPENDIX C.1 TEST RESULTS FOR OUT OF BAND EMISSIONS

APPENDIX C.2 TEST RESULTS FOR BAND EDGE

APPENDIX D.1 TEST RESULTS FOR OCCUPIED AND 26 dB BANDWIDTH

APPENDIX E.1 TEST RESULTS FOR PEAK TO AVERAGE POWER RATIO

APPENDIX F.1 TEST RESULTS FOR FREQUENCY STABILITY

LTE BAND 5

APPENDIX A.2 TEST RESULTS FOR EFFECTIVE ISOTROPICALLY RADIATED POWER

Release Record

Report No.	Version	Description	Issued Date
FG132502-04P22	Rev. 01	Initial issue	Apr. 18, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 22.913(a)(5)	Effective Radiated Power	Maximu ERP[dBm] :19.76	Pass
2.1053 / 22.917(a)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 22.917(a)	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 / 22.917(a)	Band Edge	Meet the requirement of limit	Pass
2.1049	Occupied Bandwidth	Meet the requirement of limit	Pass
-	Peak to Average Power Ratio	Meet the requirement of limit	Pass
2.1055 / 22.355	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	XS5G01-GB0	5G SOM	With GPS Component
	XS5G01-GBI		Without GPS Component
✦ The above models, model XS5G01-GB0 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 5: Channel Bandwidth: 1.4MHz: 824.7 MHz ~ 848.3 MHz Channel Bandwidth: 3MHz: 825.5 MHz ~ 847.5 MHz Channel Bandwidth: 5MHz: 826.5 MHz ~ 846.5 MHz Channel Bandwidth: 10MHz: 829 MHz ~ 844 MHz LTE Band 26 Channel Bandwidth: 1.4MHz: 824.7 MHz ~ 848.3 MHz Channel Bandwidth: 3MHz: 825.5 MHz ~ 847.5 MHz Channel Bandwidth: 5MHz: 826.5 MHz ~ 846.5 MHz Channel Bandwidth: 10MHz: 829 MHz ~ 844 MHz Channel Bandwidth: 15MHz: 831.5 MHz ~ 841.5 MHz
Modulation	QPSK, 16QAM, 64QAM, 256QAM (Uplink) QPSK, 16QAM, 64QAM, 256QAM (Downlink)

1.1.3 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
Anjie	AELQ2S-B066L	Dipole	SMA	-1.2

1.1.4 Power Supply Type of Equipment under Test (EUT)

Supply Voltage	4 Vdc		
Operational Voltage	☒ Vnom (4 V)	☒ Vmax (4.2 V)	☒ Vmin (3.8 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 5			
Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
1.4MHz	QPSK	0.197	1M09G7D
1.4MHz	16QAM	0.164	1M09W7D
1.4MHz	64QAM	0.129	1M09W7D
1.4MHz	256QAM	0.067	1M08W7D
3MHz	QPSK	0.197	2M68G7D
3MHz	16QAM	0.166	2M68W7D
3MHz	64QAM	0.134	2M68W7D
3MHz	256QAM	0.065	2M68W7D
5MHz	QPSK	0.198	4M47G7D
5MHz	16QAM	0.166	4M47W7D
5MHz	64QAM	0.133	4M48W7D
5MHz	256QAM	0.068	4M47W7D
10MHz	QPSK	0.199	8M94G7D
10MHz	16QAM	0.168	8M91W7D
10MHz	64QAM	0.131	8M92W7D
10MHz	256QAM	0.068	8M93W7D

LTE Band 26			
Mode	Modulation	Maximum Conducted Power (W)	Emission Designator
1.4MHz	QPSK	0.200	1M09G7D
1.4MHz	16QAM	0.164	1M09W7D
1.4MHz	64QAM	0.131	1M09W7D
1.4MHz	256QAM	0.067	1M08W7D
3MHz	QPSK	0.202	2M68G7D
3MHz	16QAM	0.164	2M68W7D
3MHz	64QAM	0.130	2M68W7D
3MHz	256QAM	0.067	2M68W7D
5MHz	QPSK	0.200	4M47G7D
5MHz	16QAM	0.167	4M47W7D
5MHz	64QAM	0.132	4M48W7D
5MHz	256QAM	0.068	4M47W7D
10MHz	QPSK	0.204	8M94G7D
10MHz	16QAM	0.169	8M91W7D
10MHz	64QAM	0.136	8M92W7D
10MHz	256QAM	0.068	8M93W7D
15MHz	QPSK	0.205	13M4G7D
15MHz	16QAM	0.169	13M4W7D
15MHz	64QAM	0.136	13M4W7D
15MHz	256QAM	0.068	13M5W7D

1.1.7 Operating Channel List

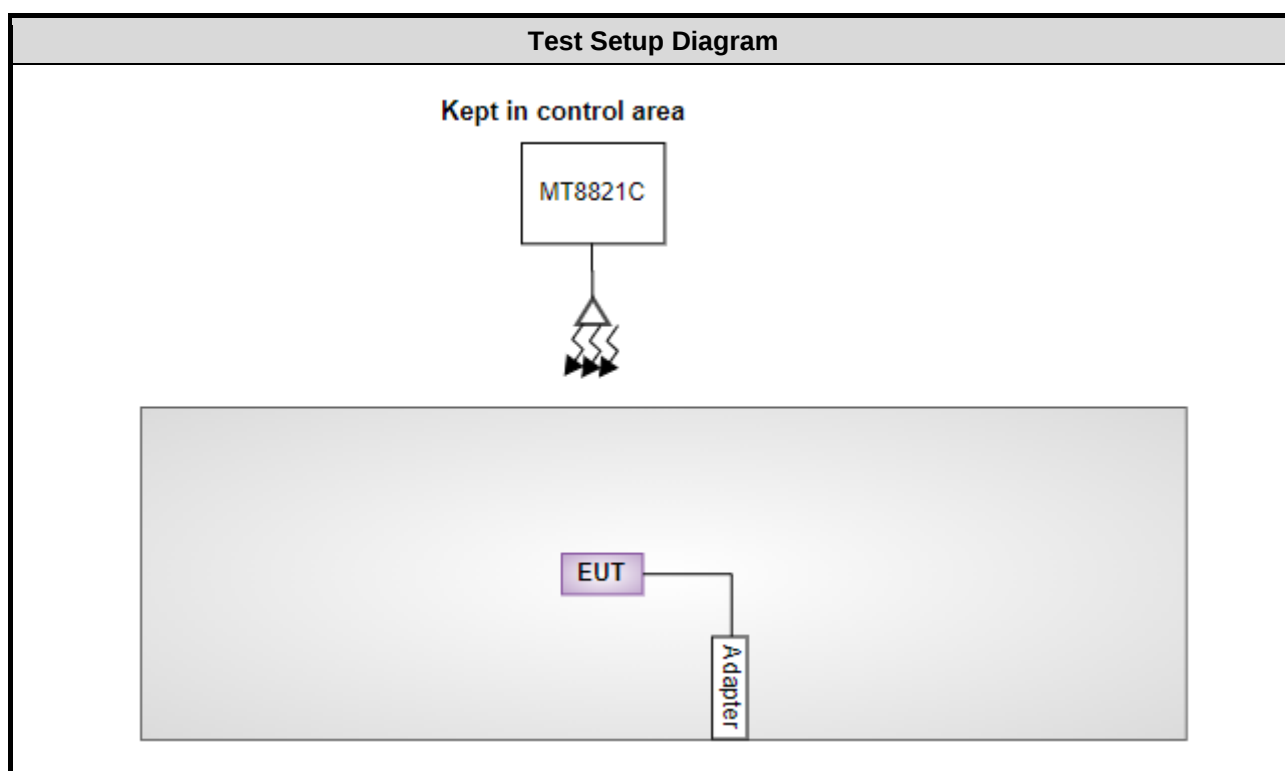
LTE Band 5		
Channel Bandwidths (MHz)	Channel	Frequency (MHz)
1.4	20407	824.7
1.4	20525	836.5
1.4	20643	848.3
3	20415	825.5
3	20525	836.5
3	20635	847.5
5	20425	826.5
5	20525	836.5
5	20625	846.5
10	20450	829.0
10	20525	836.5
10	20600	844.0

LTE Band 26		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	26797	824.7
1.4	26915	836.5
1.4	27033	848.3
3	26805	825.5
3	26915	836.5
3	27025	847.5
5	26815	826.5
5	26915	836.5
5	27015	846.5
10	26840	829.0
10	26915	836.5
10	26990	844.0
15	26865	831.5
15	26915	836.5
15	26965	841.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Adapter	APD	WY-36C12FU	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Feb. 06 ~ Feb. 09, 2023				
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. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 04, 2022	Oct. 03, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Sep. 12, 2022	Sep. 11, 2023
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 23, 2022 ~ Feb. 09, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 08, 2022	Apr. 07, 2023
Spectrum Analyzer	Keysight	N9010A	MY54510374	Aug. 26, 2022	Aug. 25, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 31, 2022	Oct. 30, 2023
Measurement Software	Sporton	SENSE-FCC_2G-4 G	V6.1.6	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Sep. 12, 2022	Sep. 11, 2023
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 22 Subpart H
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	22-24°C / 65-66%	Brad Wu
RF Conducted	TH01-WS	23-25°C / 62-66%	Roger Lu

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

2.2 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 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	256QAM	1	Half	Full	L	M	H
Max. Output Power	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v
peak-to-Average Ratio	5	Covered by LTE Band26															
	26					v	-	v	v	v	v			v		v	
26dB and 99% Bandwidth	5	Covered by LTE Band26															
	26	v	v	v	v	v	-	v	v	v	v			v		v	
Conducted Band edge	5	Covered by LTE Band26															
	26	v	v	v	v	v	-	v	v	v	v	v		v	v		v
Conducted Spurious Emission	5	Covered by LTE Band26															
	26	v	v	v	v	v	-	v				v			v	v	v
Frequency Stability	5	Covered by LTE Band26															
	26					v	-	v						v		v	
E.R.P / E.I.R.P	5	v	v	v	v	-	-	v	v	v	v	Max. power					
	26	v	v	v	v	v	-	v	v	v	v						
Radiated Spurious Emission	5	Covered by LTE Band26													v	v	v
	26	Worst Case													v	v	v
Remark	1. "v": this configuration is for testing. 2. "-": This bandwidth is not supported. 3. Frequency range of radiated measurement is from 30 MHz to 10th harmonic of fundamental frequency. 4. All spurious emissions below 1000 MHz are more than 20 dB below the limit. 5. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report																

3 Test Results

3.1 Effective Radiated Power

3.1.1 Limit of Effective Radiated Power

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

3.1.2 Test Procedures

For Conducted power measurement:

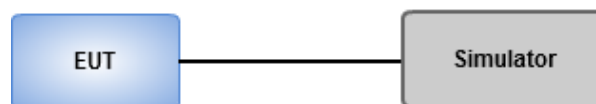
1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT.

For ERP measurement:

ERP 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.
2. $ERP = EIRP - 2.15 \text{ dB}$.

3.1.3 Test Setup



3.1.4 Test Result of Effective Radiated Power and Conducted Power (dBm)

Refer to Appendix A.1, A.2

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

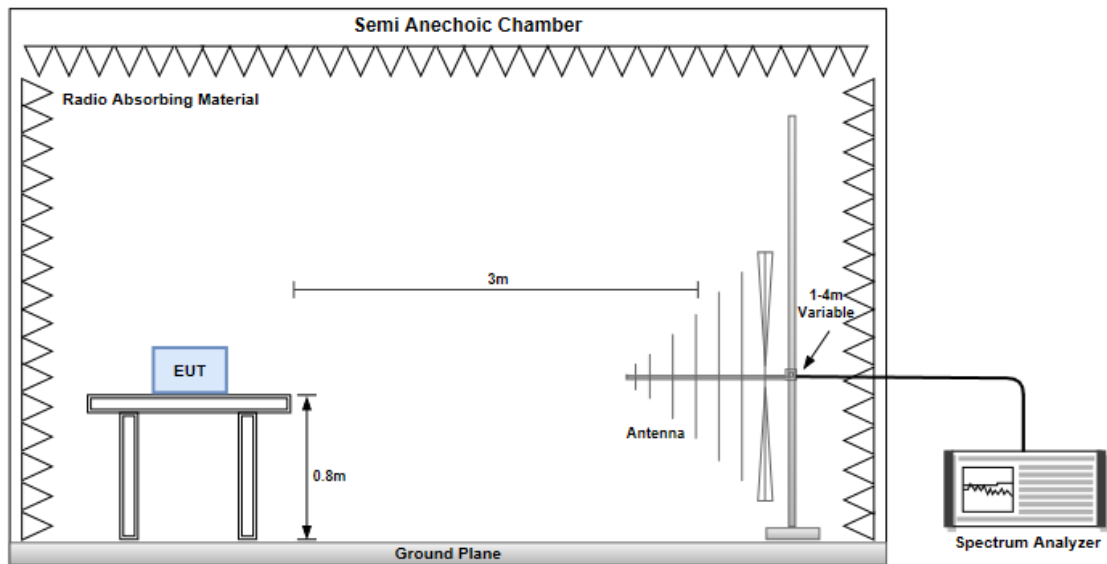
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

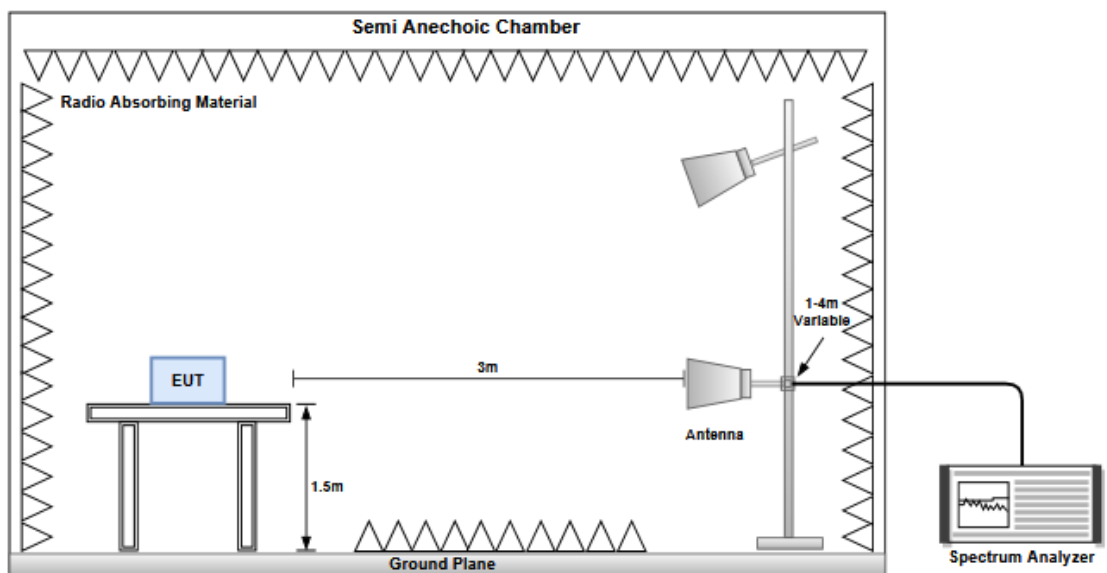
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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. $E.I.R.P = \text{output power of step 4} + \text{gain of substitution antenna} - \text{cable loss of RF cable}$. ERP can be calculated by below formula:
 $E.R.P = E.I.R.P - 2.15\text{dB}$.

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.1

3.3 Out of Band Emissions & Band Edge

3.3.1 Limit of Out of Band Emissions & Band Edge

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 -13dBm.

3.3.2 Test Procedures

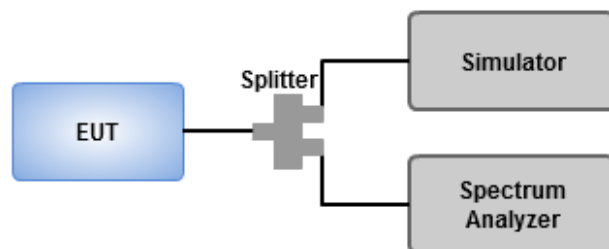
Out of band emission

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 10 GHz.
3. Set RBW = 1 MHz, VBW = 3 MHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

Band edge

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 1% of EBW, VBW = 3 x RBW, detector = RMS, sweep time = auto.
3. 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 & Band Edge

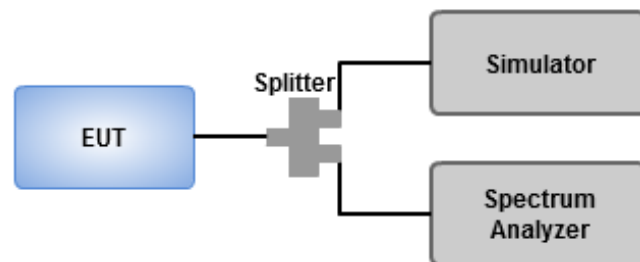
Refer to Appendix C.1, C.2

3.4 Occupied and 26 dB 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. Using occupied bandwidth measurement function of spectrum analyzer to measure occupied bandwidth
5. 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.

3.4.2 Test Setup



3.4.3 Test Result of Occupied and 26 dB Bandwidth

Refer to Appendix D.1

3.5 Peak to Average Power Ratio

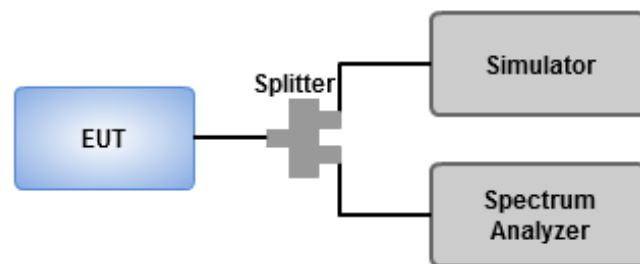
3.5.1 Limit of Peak to Average Power Ratio

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

3.5.2 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%.

3.5.3 Test Setup



3.5.4 Test Result of Peak to Average Power Ratio

Refer to Appendix E.1

3.6 Frequency Stability

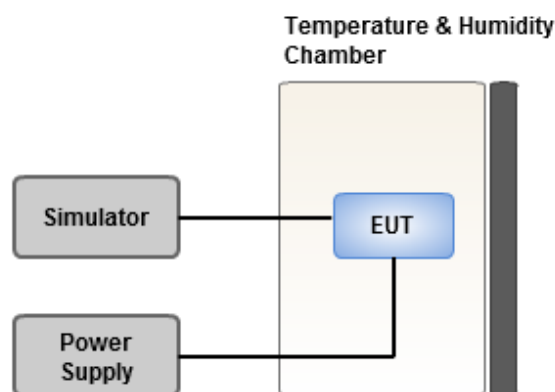
3.6.1 Limit of Frequency Stability

The frequency stability shall be less +/- 2.5ppm.

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.1

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

Tel: 886-3-271-8666

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 33381, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Part22H LTE Band 26 Maximum Average Power [dBm](GT-LC= -1.2 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
Channel				26865	26915	26965		
Frequency				831.5	836.5	841.5		
15	QPSK	1	0	23.11	23.02	22.77	19.76	0.0946
15	QPSK	1	74	22.94	22.83	22.72		
15	QPSK	75	0	22.05	21.87	21.72		
15	16QAM	1	0	22.27	22.25	21.88	18.92	0.0780
15	64QAM	1	0	21.35	21.24	20.87	18	0.0631
15	256QAM	1	0	18.31	18.18	18.01	14.96	0.0313
Channel				26840	26915	26990	ERP (dBm)	ERP (W)
Frequency				829	836.5	844		
10	QPSK	1	0	23.09	23.02	22.77	19.74	0.0942
10	QPSK	1	49	22.94	22.83	22.72		
10	QPSK	50	0	22.05	21.87	21.72		
10	16QAM	1	0	22.27	22.25	21.88	18.92	0.0780
10	64QAM	1	0	21.35	21.24	20.87	18	0.0631
10	256QAM	1	0	18.31	18.18	18.01	14.96	0.0313
Channel				26815	26915	27015	ERP (dBm)	ERP (W)
Frequency				826.5	836.5	846.5		
5	QPSK	1	0	23.02	22.95	22.78	19.67	0.0927
5	QPSK	1	24	22.74	22.72	22.65		
5	QPSK	25	0	21.95	21.69	21.74		
5	16QAM	1	0	22.23	22.15	22.08	18.88	0.0773
5	64QAM	1	0	21.21	21.16	21.06	17.86	0.0611
5	256QAM	1	0	18.34	18.22	18.13	14.99	0.0316
Channel				26805	26915	27025	ERP (dBm)	ERP (W)
Frequency				825.5	836.5	847.5		
3	QPSK	1	0	23.06	22.86	22.78	19.71	0.0935
3	QPSK	1	14	22.94	22.78	22.69		
3	QPSK	15	0	21.97	21.78	21.74		
3	16QAM	1	0	22.15	21.93	21.91	18.8	0.0759
3	64QAM	1	0	21.13	21.04	20.9	17.78	0.0600
3	256QAM	1	0	18.29	18.05	18.03	14.94	0.0312



Channel				26797	26915	27033	ERP (dBm)	ERP (W)
Frequency				824.7	836.5	848.3		
1.4	QPSK	1	0	23.02	22.73	22.65	19.67	0.0927
1.4	QPSK	1	5	22.96	22.7	22.6		
1.4	QPSK	6	0	22.01	21.79	21.73		
1.4	16QAM	1	0	22.16	21.85	21.83	18.81	0.0760
1.4	64QAM	1	0	21.16	21.03	21.02	17.81	0.0604
1.4	256QAM	1	0	18.23	18.1	18.08	14.88	0.0308
Limit	ERP < 7 W			Result			Pass	

Summary

Part22H LTE Band 5 MaxiMum Average Power [dBm](GT-LC= -1.2 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
Channel				20450	20525	20600		
Frequency				829	836.5	844		
10	QPSK	1	0	22.99	22.86	22.82	19.64	0.0920
10	QPSK	1	49	22.91	22.77	22.75		
10	QPSK	50	0	22.01	21.93	21.81		
10	16QAM	1	0	22.25	22.06	22.05	18.9	0.0776
10	64QAM	1	0	21.16	21.07	20.82	17.81	0.0604
10	256QAM	1	0	18.34	18.31	18.03	14.99	0.0316
Channel				20425	20525	20625	ERP (dBm)	ERP (W)
Frequency				826.5	836.5	846.5		
5	QPSK	1	0	22.97	22.91	22.77	19.62	0.0916
5	QPSK	1	24	22.97	22.82	22.76		
5	QPSK	25	0	22.01	21.83	21.74		
5	16QAM	1	0	22.14	22.21	21.03	18.86	0.0769
5	64QAM	1	0	21.23	21.05	20.89	17.88	0.0614
5	256QAM	1	0	18.15	18.33	17.96	14.98	0.0315
Channel				20415	20525	20635	ERP (dBm)	ERP (W)
Frequency				825.5	836.5	847.5		
3	QPSK	1	0	22.94	22.81	22.76	19.59	0.0910
3	QPSK	1	14	22.88	22.78	22.71		
3	QPSK	15	0	21.97	21.82	21.73		
3	16QAM	1	0	22.12	22.19	22.12	18.84	0.0766
3	64QAM	1	0	21.27	21.03	20.95	17.92	0.0619
3	256QAM	1	0	18.12	18.05	18.01	14.77	0.0300
Channel				20407	20525	20643	ERP (dBm)	ERP (W)
Frequency				824.7	836.5	848.3		
1.4	QPSK	1	0	22.95	22.87	22.74	19.6	0.0912
1.4	QPSK	1	5	22.92	22.81	22.71		
1.4	QPSK	6	0	21.97	21.87	21.81		
1.4	16QAM	1	0	22.14	22.12	22.04	18.79	0.0757
1.4	64QAM	1	0	21.12	21.11	20.65	17.77	0.0598
1.4	256QAM	1	0	18.16	18.26	17.87	14.91	0.0310
Limit	ERP < 7 W			Result			Pass	

Mode	LTE Band 26, QPSK, CB:15 MHz, 1 RB, Channel: 26865						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1649.8	H	-70.27	-13	-57.27	-72.4	-73.46	5.34
2474.7	H	-67.4	-13	-54.4	-72.28	-70.85	5.6
3299.6	H	-66.17	-13	-53.17	-72.85	-70.45	6.43
1649.8	V	-70.1	-13	-57.1	-72.35	-73.29	5.34
2474.7	V	-67.66	-13	-54.66	-72.24	-71.11	5.6
3299.6	V	-66.17	-13	-53.17	-72.85	-70.45	6.43

Mode	LTE Band 26, QPSK, CB:15 MHz, 1 RB, Channel: 26915						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1659.8	H	-70.23	-13	-57.23	-72.39	-73.45	5.37
2489.7	H	-67.38	-13	-54.38	-72.25	-70.87	5.64
3319.6	H	-66.23	-13	-53.23	-72.87	-70.61	6.53
1659.8	V	-70.11	-13	-57.11	-72.35	-73.33	5.37
2489.7	V	-67.73	-13	-54.73	-72.31	-71.22	5.64
3319.6	V	-66.21	-13	-53.21	-72.86	-70.59	6.53

Mode	LTE Band 26, QPSK, CB:15 MHz, 1 RB, Channel: 26965						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1669.8	H	-70.12	-13	-57.12	-72.31	-73.37	5.4
2504.7	H	-67.3	-13	-54.3	-72.17	-70.83	5.68
3339.6	H	-66.08	-13	-53.08	-72.7	-70.55	6.62
1669.8	V	-69.97	-13	-56.97	-72.21	-73.22	5.4
2504.7	V	-67.57	-13	-54.57	-72.15	-71.1	5.68
3339.6	V	-66.06	-13	-53.06	-72.69	-70.53	6.62

NOTE: ERP = S.G power value + correction factor – 2.15 dBi

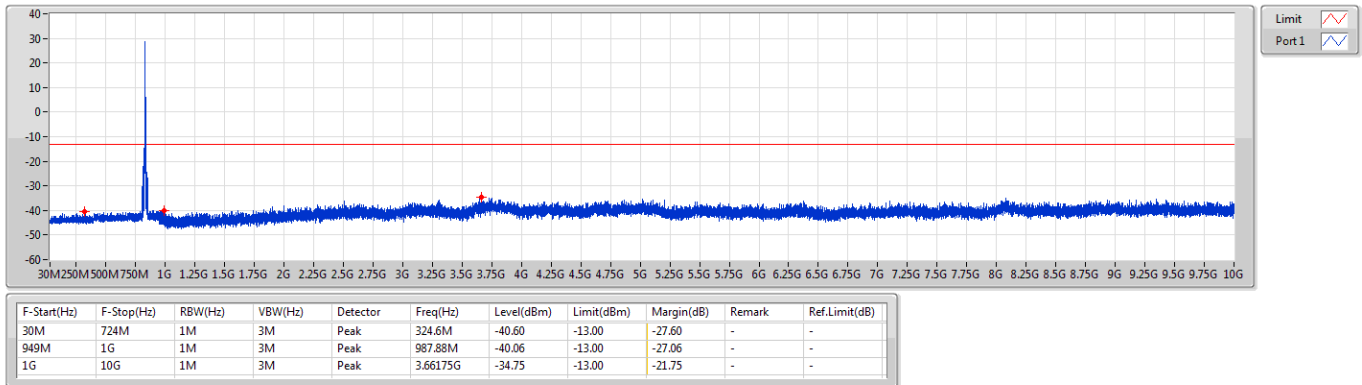


Summary

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 26	-	-	-	-	-	-	-	-	-	-	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	3.60438G	-34.70	-13.00	-21.70	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	3.78522G	-33.89	-13.00	-20.89	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	3.77509G	-34.24	-13.00	-21.24	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	3.62575G	-33.54	-13.00	-20.54	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	9.78625G	-34.63	-13.00	-21.63	-	-

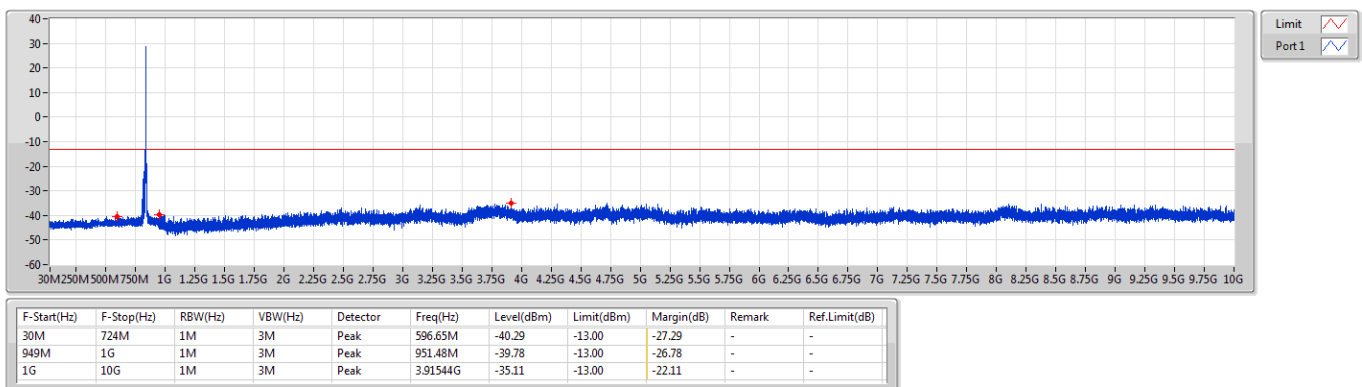
Band 26_LTE_15MHz_Nss1,QPSK_1TX
831.5MHz_QPSK_RB 1

CSE-TX-Sum



Band 26_LTE_15MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 1

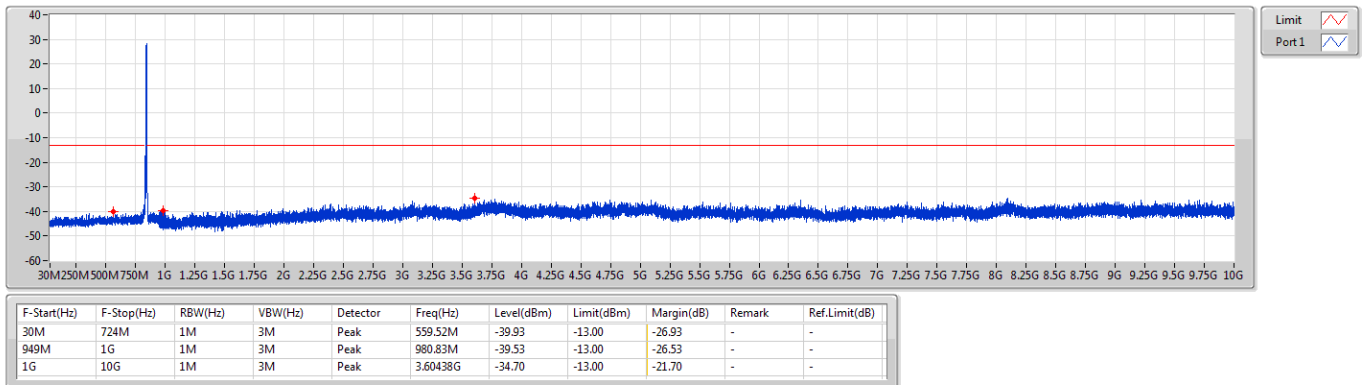
CSE-TX-Sum



Band 26_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

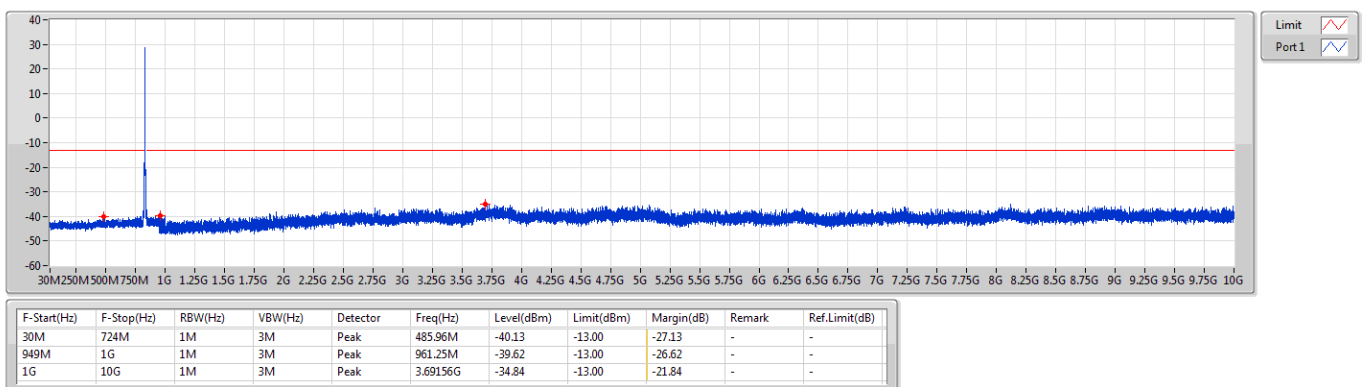
841.5MHz_QPSK_RB 1



Band 26_LTE_10MHz_Nss1,QPSK_1TX

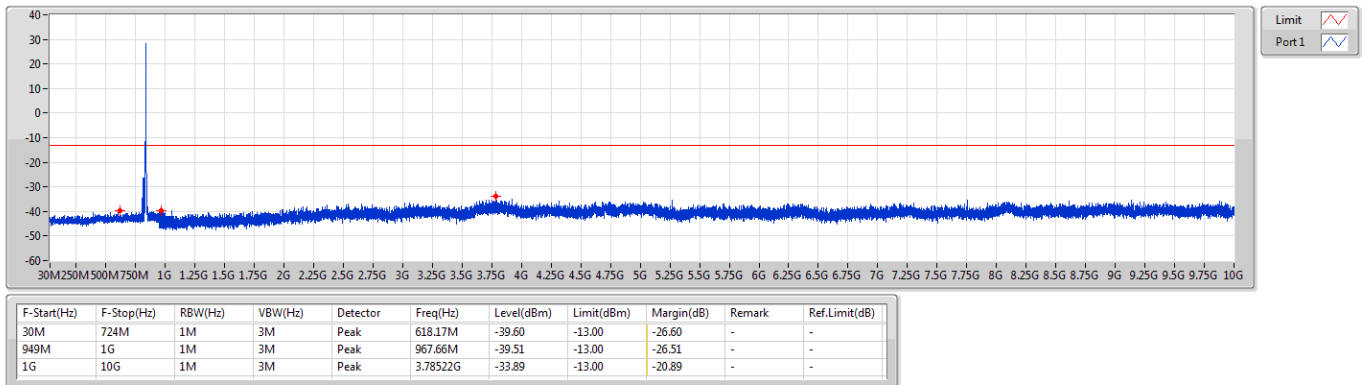
CSE-TX-Sum

829MHz_QPSK_RB 1



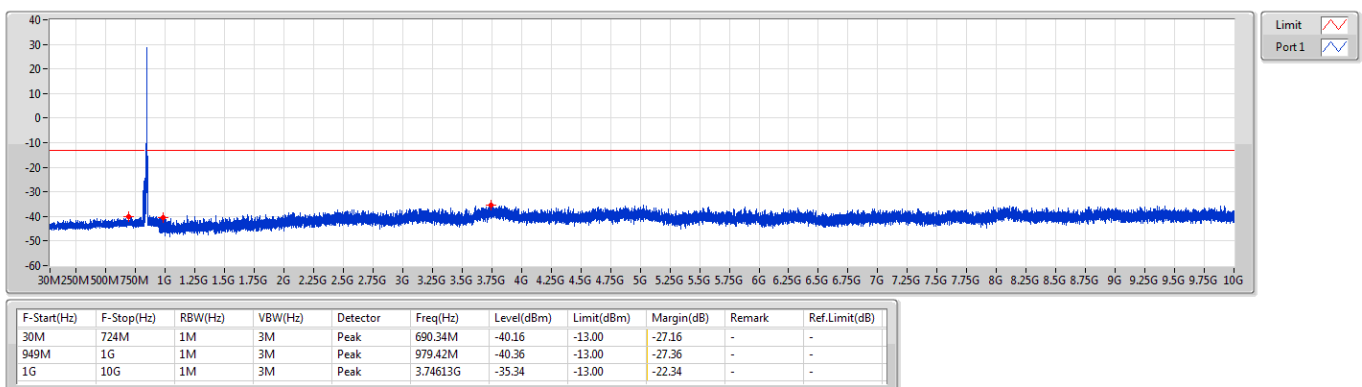
Band 26_LTE_10MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 1

CSE-TX-Sum



Band 26_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 1

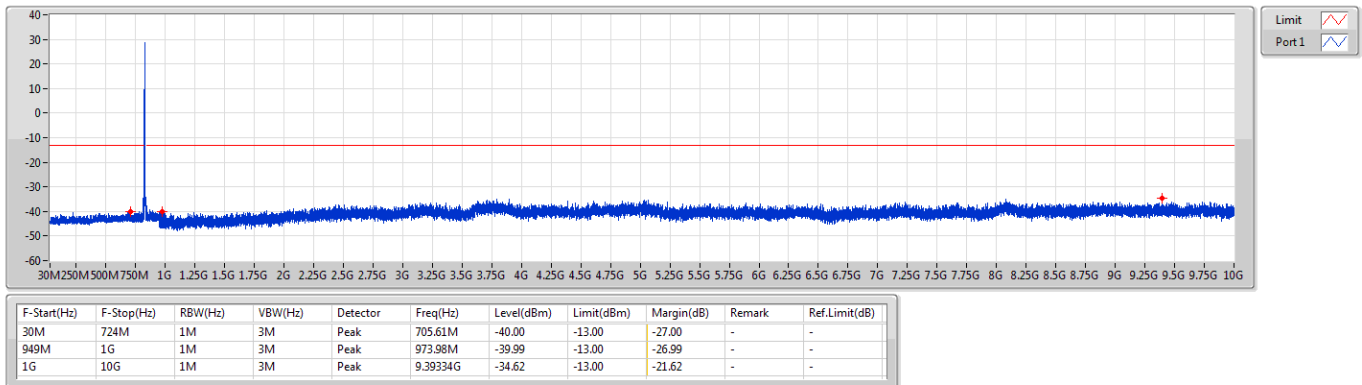
CSE-TX-Sum



Band 26_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

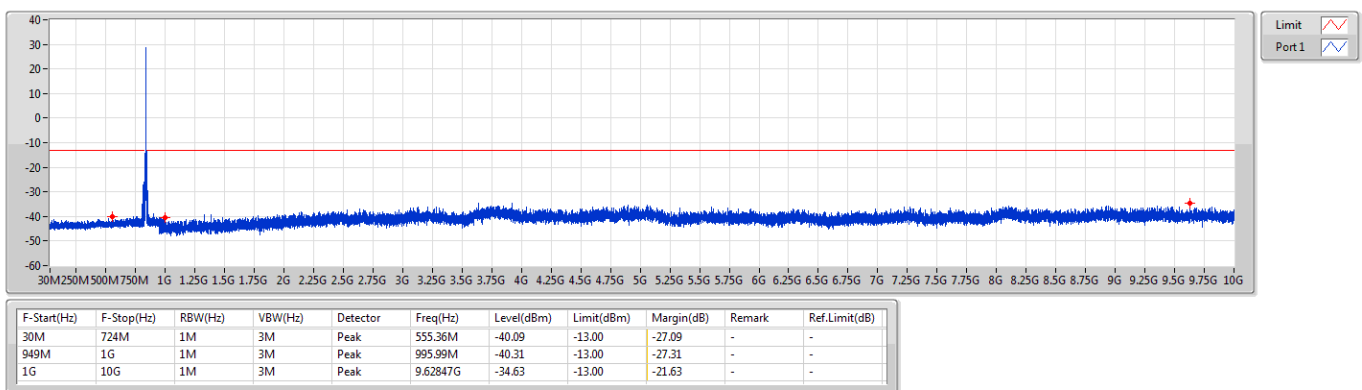
826.5MHz_QPSK_RB 1



Band 26_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

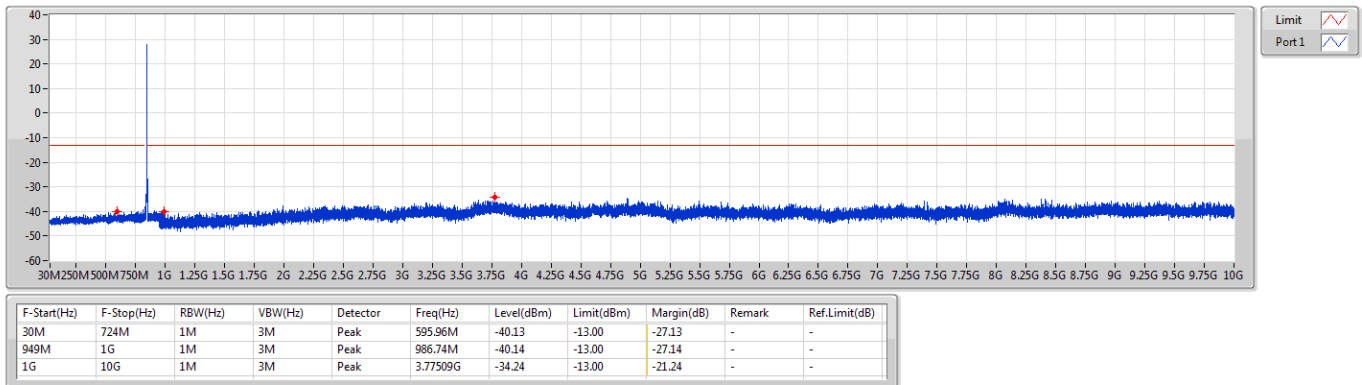
836.5MHz_QPSK_RB 1



Band 26_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

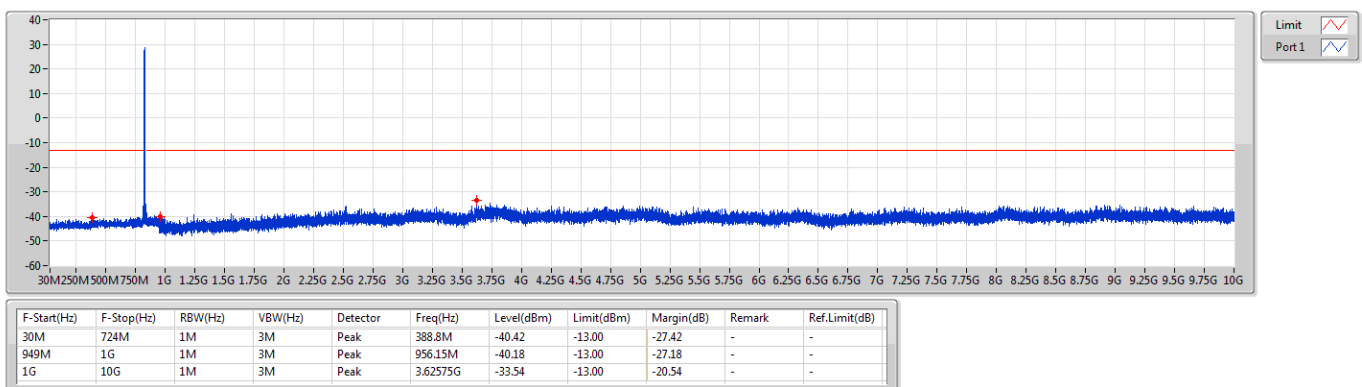
846.5MHz_QPSK_RB 1



Band 26_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

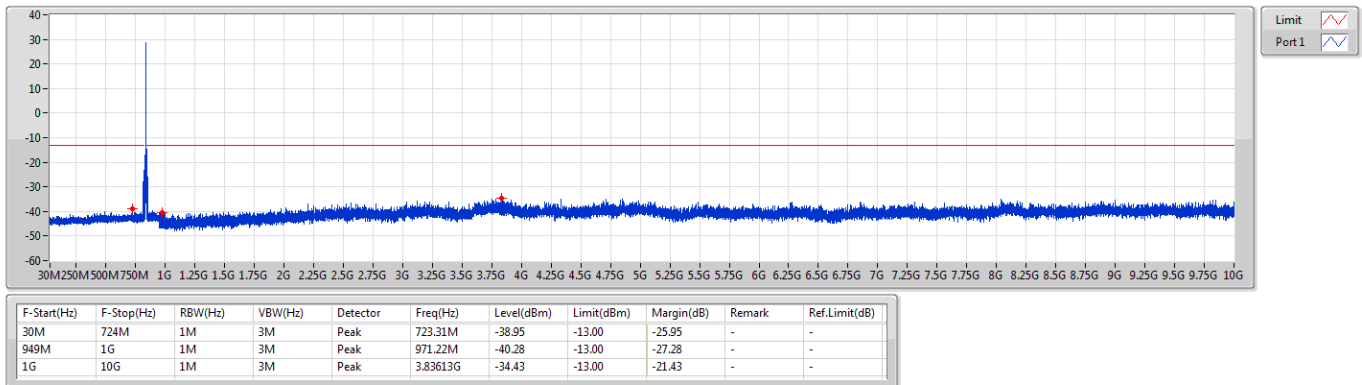
825.5MHz_QPSK_RB 1



Band 26_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

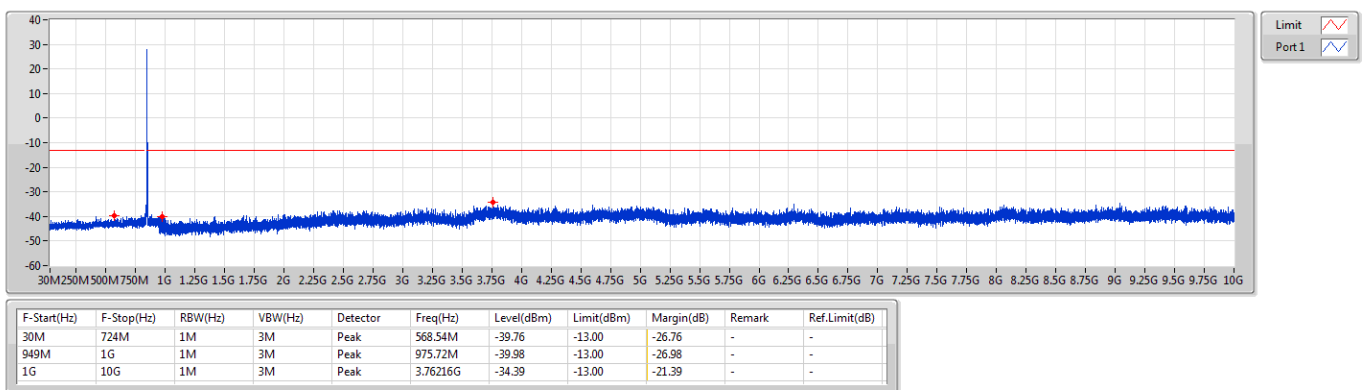
836.5MHz_QPSK_RB 1



Band 26_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

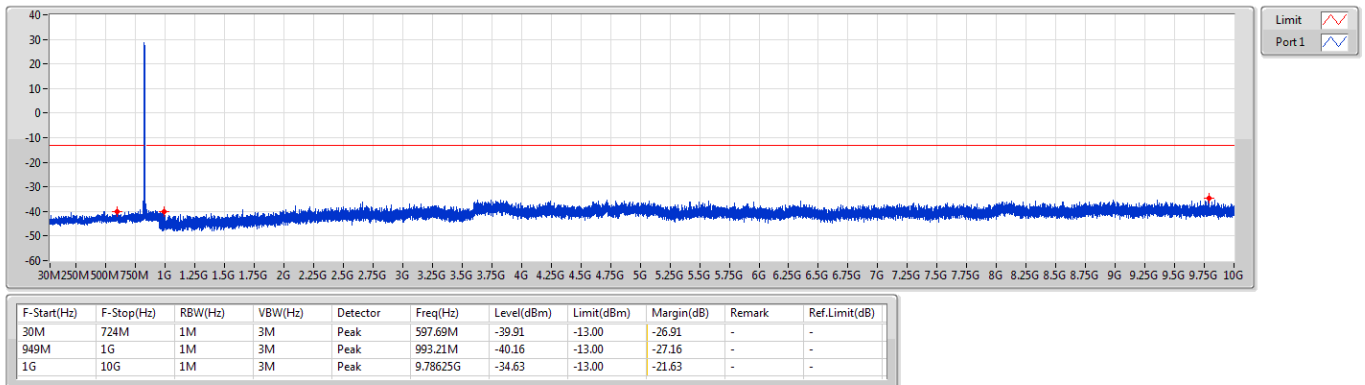
847.5MHz_QPSK_RB 1



Band 26_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Sum

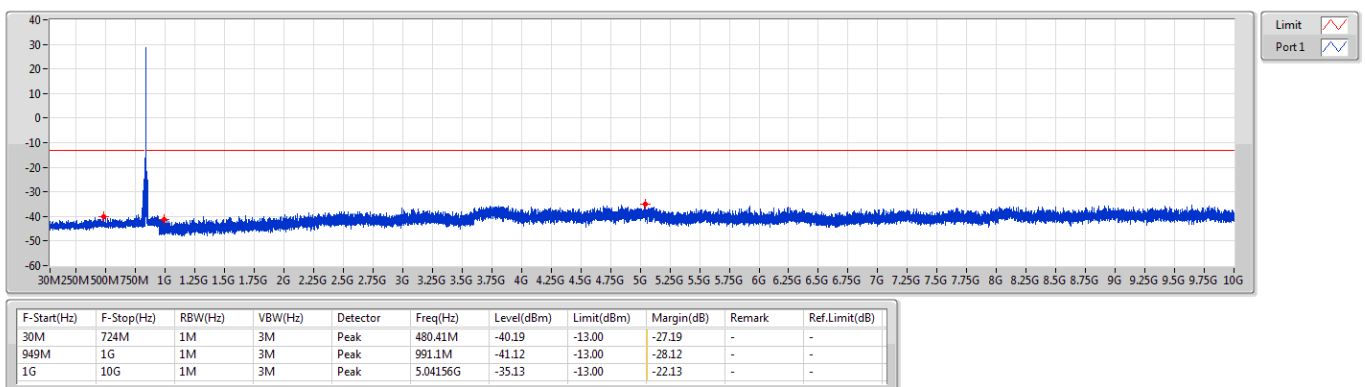
824.7MHz_QPSK_RB 1



Band 26_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Sum

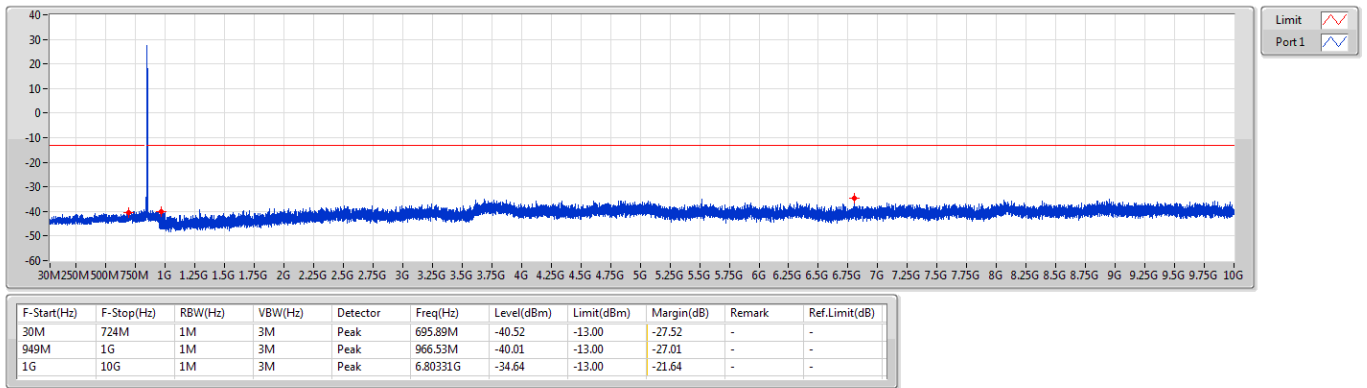
836.5MHz_QPSK_RB 1





Band 26_LTE_1.4MHz_Nss1,QPSK_1TX
848.3MHz_QPSK_RB 1

CSE-TX-Sum



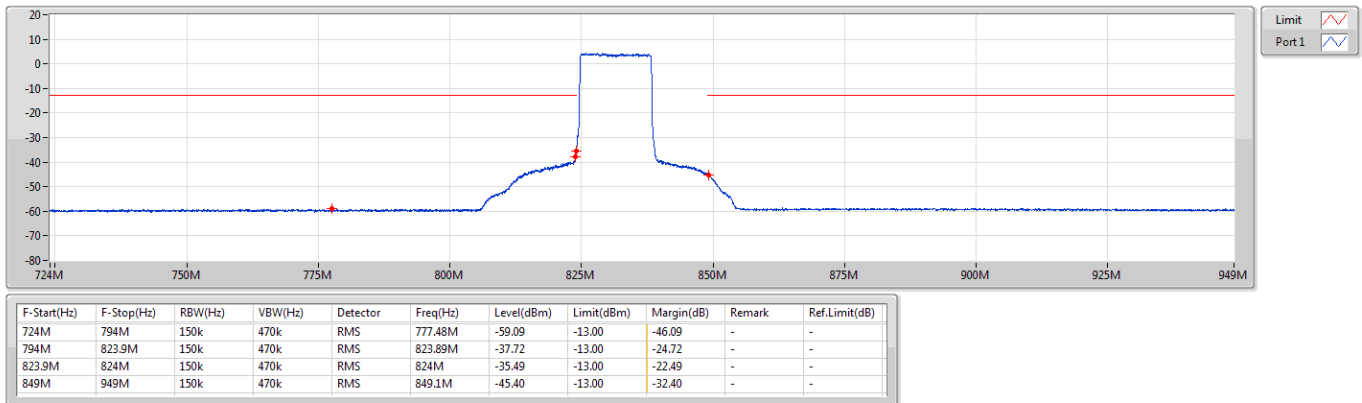
Summary

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 26	-	-	-	-	-	-	-	-	-	-	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	823.9M	824M	150k	470k	RMS	824M	-21.06	-13.00	-8.06	-	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	823.9M	824M	150k	470k	RMS	824M	-21.27	-13.00	-8.27	-	-
LTE_15MHz_Nss1,64QAM_1TX	Pass	849M	849.1M	150k	470k	RMS	849.02M	-22.41	-13.00	-9.41	-	-
LTE_15MHz_Nss1,256QAM_1TX	Pass	823.9M	824M	150k	470k	RMS	824M	-24.35	-13.00	-11.35	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	849M	849.1M	100k	300k	RMS	849.01M	-19.84	-13.00	-6.84	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	823.9M	824M	100k	300k	RMS	823.99M	-19.88	-13.00	-6.88	-	-
LTE_10MHz_Nss1,64QAM_1TX	Pass	849M	849.1M	100k	300k	RMS	849M	-21.53	-13.00	-8.53	-	-
LTE_10MHz_Nss1,256QAM_1TX	Pass	823.9M	824M	100k	300k	RMS	824M	-24.47	-13.00	-11.47	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	823.9M	824M	51k	200k	RMS	823.99M	-17.20	-13.00	-4.20	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	849M	849.1M	51k	200k	RMS	849M	-16.81	-13.00	-3.81	-	-
LTE_5MHz_Nss1,64QAM_1TX	Pass	823.9M	824M	51k	200k	RMS	823.99M	-18.08	-13.00	-5.08	-	-
LTE_5MHz_Nss1,256QAM_1TX	Pass	823.9M	824M	51k	200k	RMS	823.99M	-20.08	-13.00	-7.08	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	849M	849.1M	30k	100k	RMS	849M	-18.18	-13.00	-5.18	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	849M	849.1M	30k	100k	RMS	849M	-19.35	-13.00	-6.35	-	-
LTE_3MHz_Nss1,64QAM_1TX	Pass	849M	849.1M	30k	100k	RMS	849M	-20.67	-13.00	-7.67	-	-
LTE_3MHz_Nss1,256QAM_1TX	Pass	823.9M	824M	30k	100k	RMS	824M	-25.02	-13.00	-12.02	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	849M	849.1M	20k	100k	RMS	849M	-20.38	-13.00	-7.38	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	849M	849.1M	20k	100k	RMS	849M	-20.99	-13.00	-7.99	-	-
LTE_1.4MHz_Nss1,64QAM_1TX	Pass	849M	849.1M	20k	100k	RMS	849M	-22.53	-13.00	-9.53	-	-
LTE_1.4MHz_Nss1,256QAM_1TX	Pass	823.9M	824M	20k	100k	RMS	824M	-25.51	-13.00	-12.51	-	-

Band 26_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

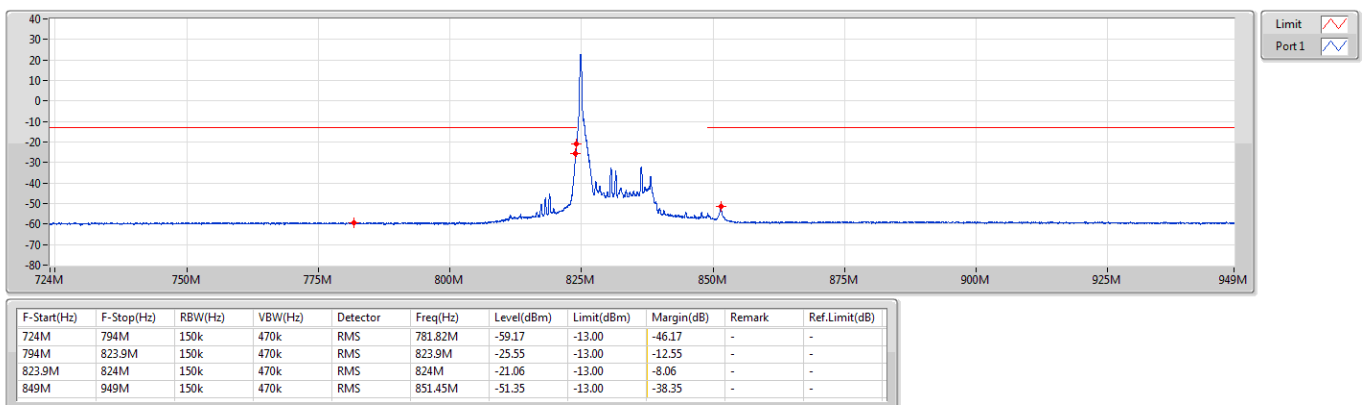
831.5MHz_QPSK_RB 75,#RB 0



Band 26_LTE_15MHz_Nss1,QPSK_1TX

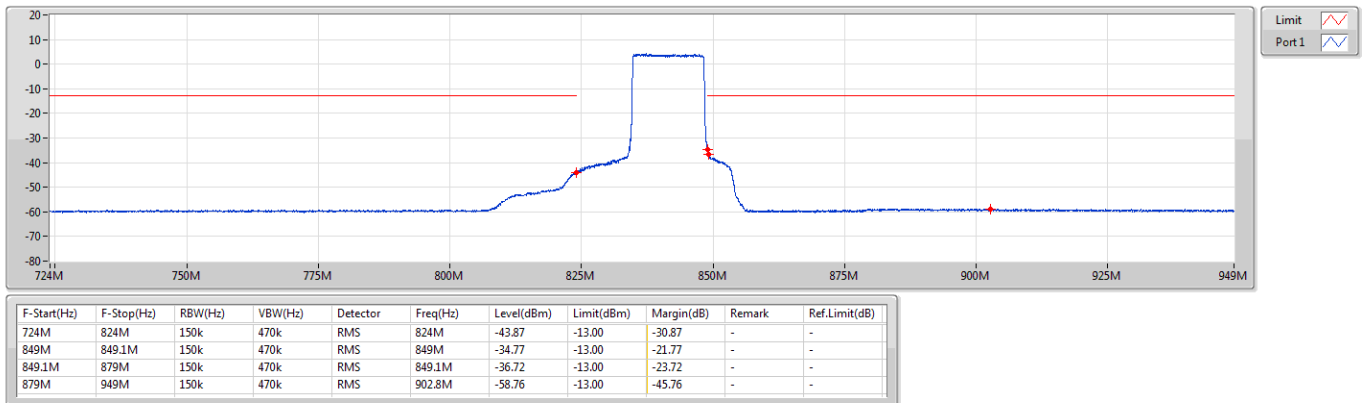
CSE-TX-Sum

831.5MHz_QPSK_RB 1,#RB L



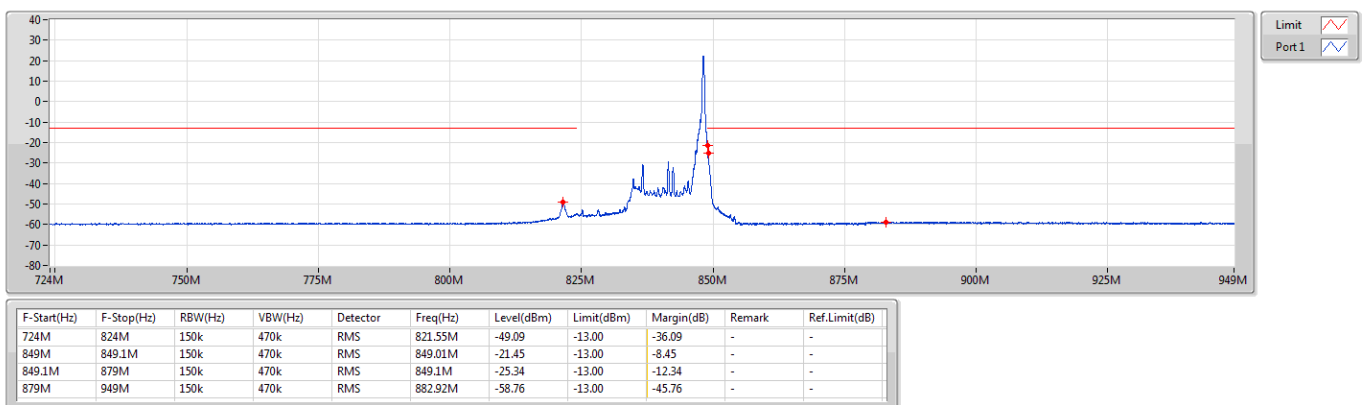
Band 26_LTE_15MHz_Nss1,QPSK_1TX
841.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



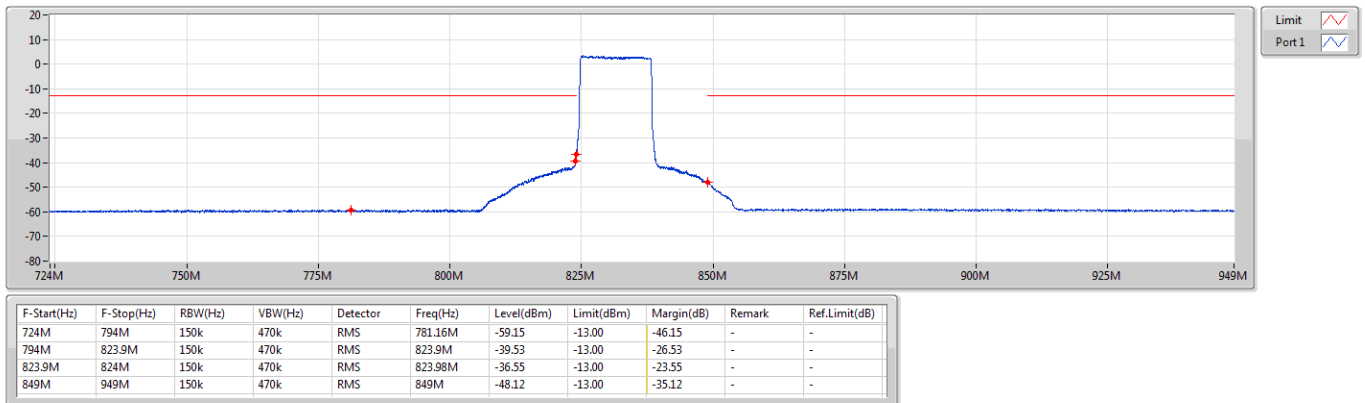
Band 26_LTE_15MHz_Nss1,QPSK_1TX
841.5MHz_QPSK_RB 1,#RB R

CSE-TX-Sum



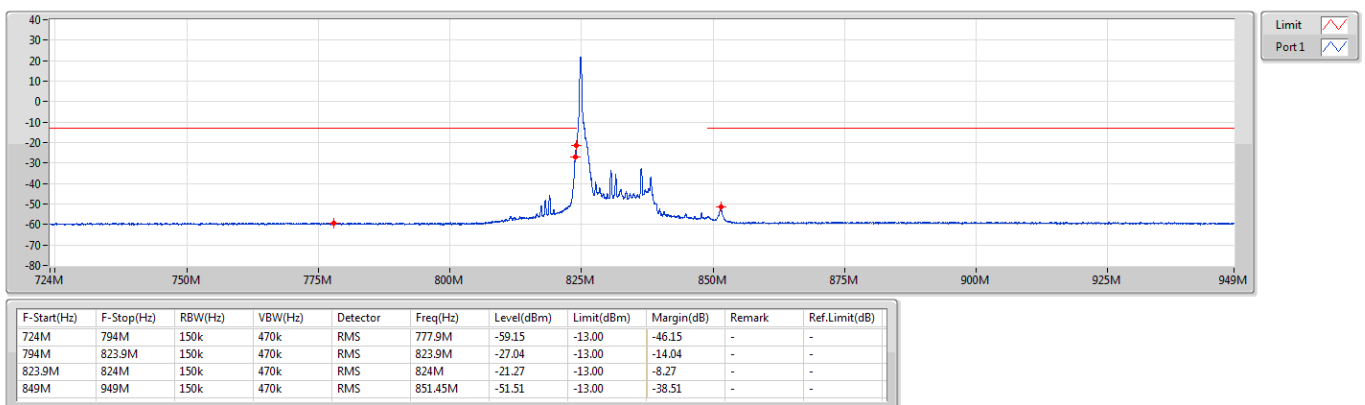
Band 26_LTE_15MHz_Nss1,16QAM_1TX
831.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



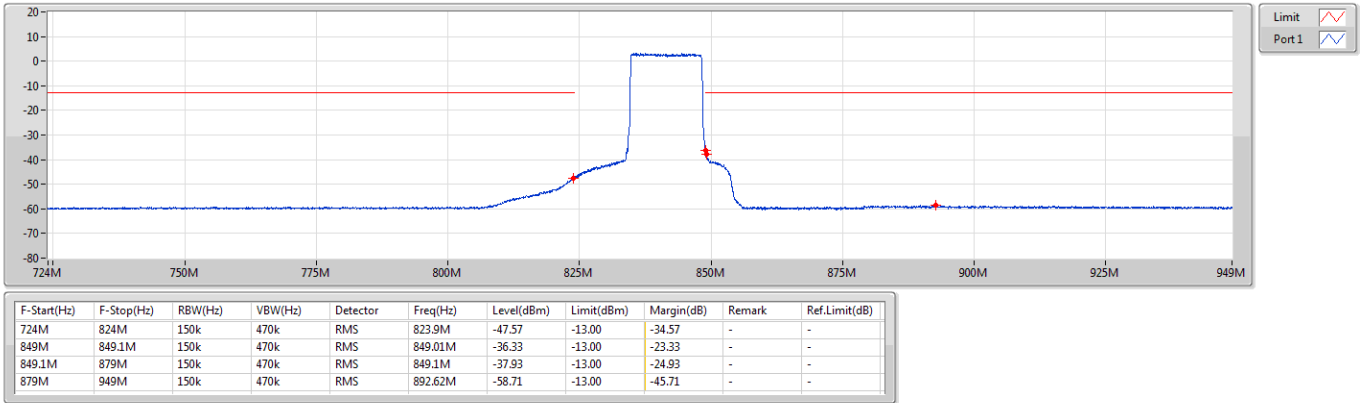
Band 26_LTE_15MHz_Nss1,16QAM_1TX
831.5MHz_16QAM_RB 1,#RB L

CSE-TX-Sum



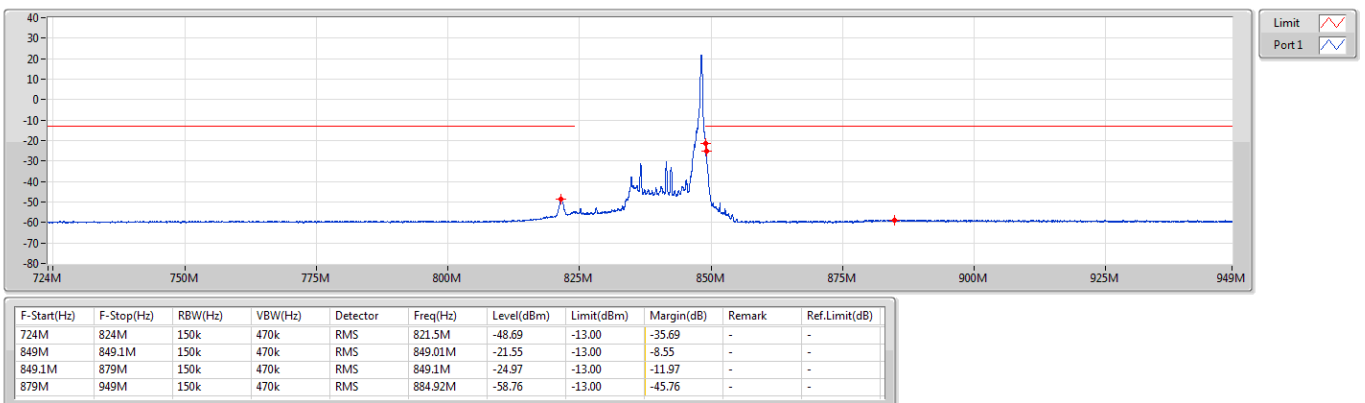
Band 26_LTE_15MHz_Nss1,16QAM_1TX
841.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



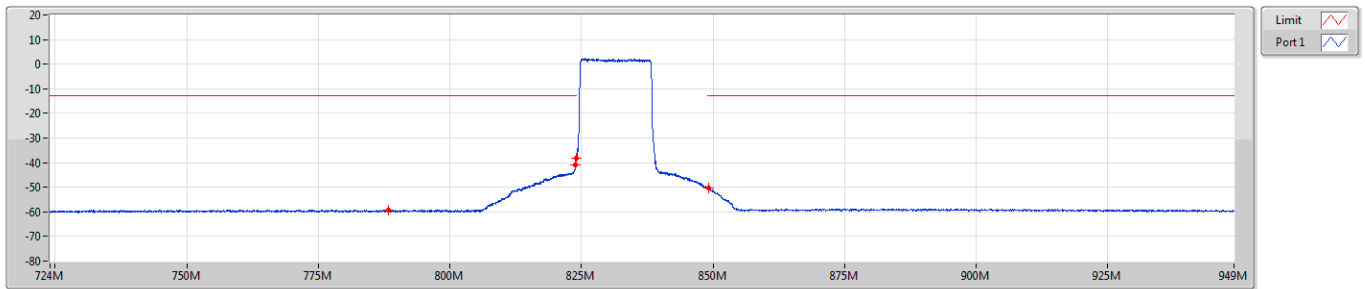
Band 26_LTE_15MHz_Nss1,16QAM_1TX
841.5MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



Band 26_LTE_15MHz_Nss1,64QAM_1TX
831.5MHz_64QAM_RB 75,#RB 0

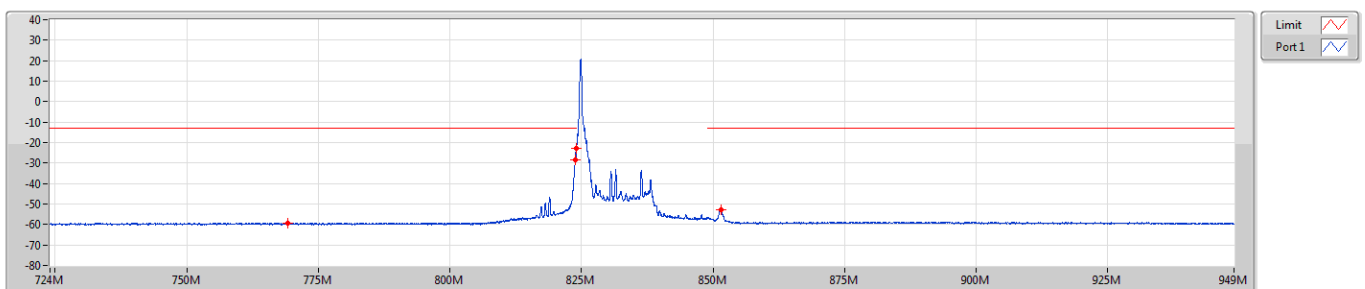
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	794M	150k	470k	RMS	788.3M	-59.17	-13.00	-46.17	-	-
794M	823.9M	150k	470k	RMS	823.9M	-40.88	-13.00	-27.88	-	-
823.9M	824M	150k	470k	RMS	823.99M	-38.23	-13.00	-25.23	-	-
849M	949M	150k	470k	RMS	849.1M	-50.22	-13.00	-37.22	-	-

Band 26_LTE_15MHz_Nss1,64QAM_1TX
831.5MHz_64QAM_RB 1,#RB L

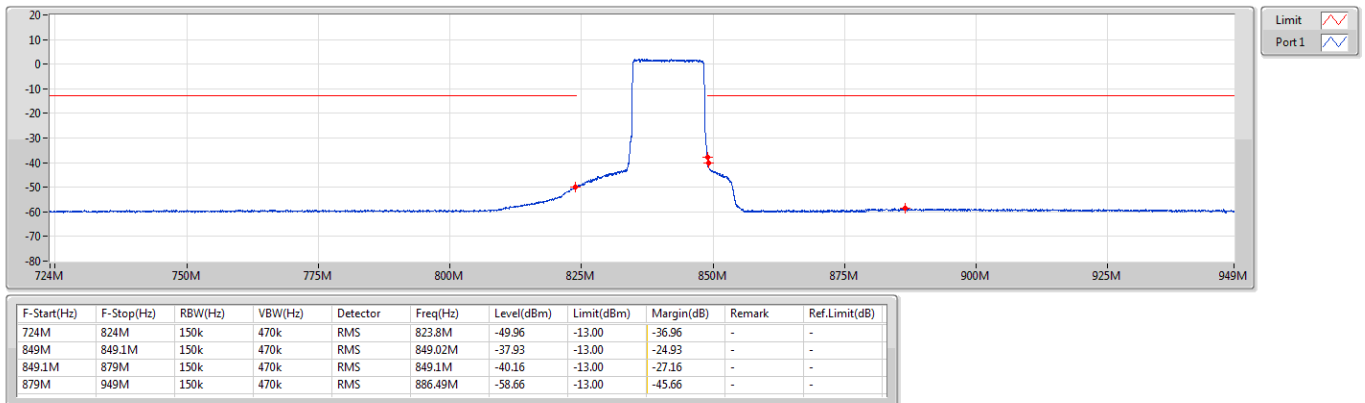
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	794M	150k	470k	RMS	769.12M	-59.20	-13.00	-46.20	-	-
794M	823.9M	150k	470k	RMS	823.87M	-28.33	-13.00	-15.33	-	-
823.9M	824M	150k	470k	RMS	824M	-22.95	-13.00	-9.95	-	-
849M	949M	150k	470k	RMS	851.5M	-52.58	-13.00	-39.58	-	-

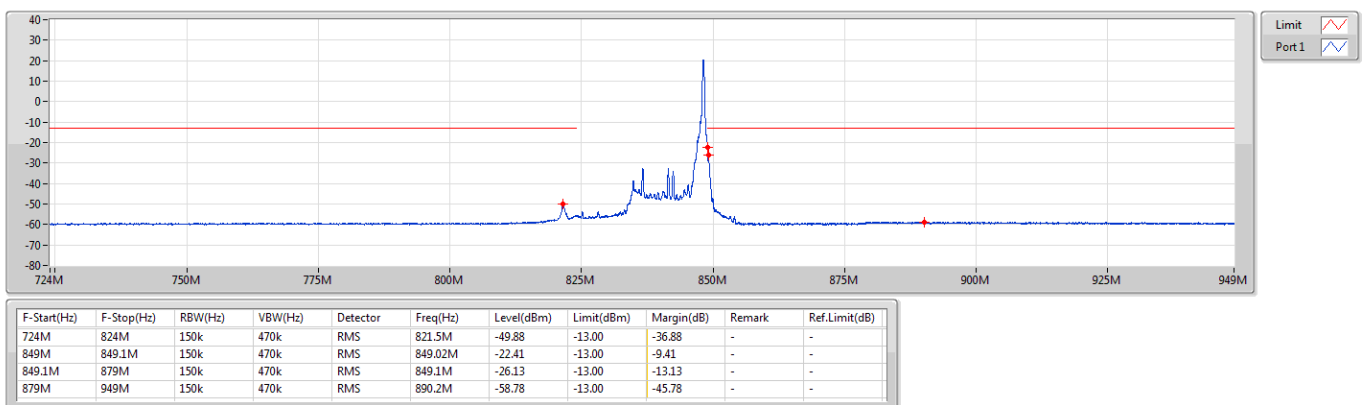
Band 26_LTE_15MHz_Nss1,64QAM_1TX
841.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



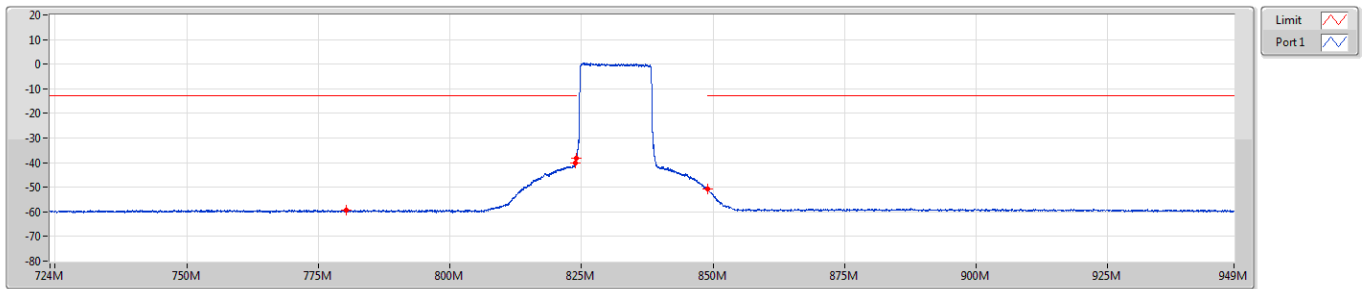
Band 26_LTE_15MHz_Nss1,64QAM_1TX
841.5MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



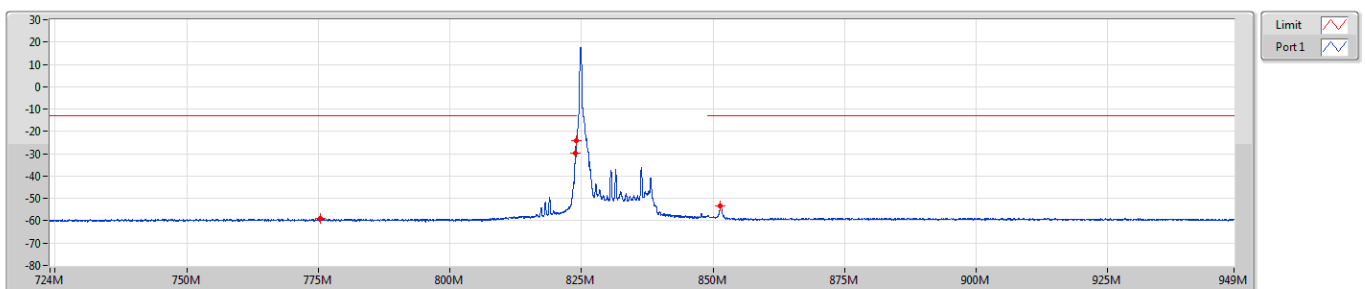
Band 26_LTE_15MHz_Nss1,256QAM_1TX
831.5MHz_256QAM_RB 75,#RB 0

CSE-TX-Sum



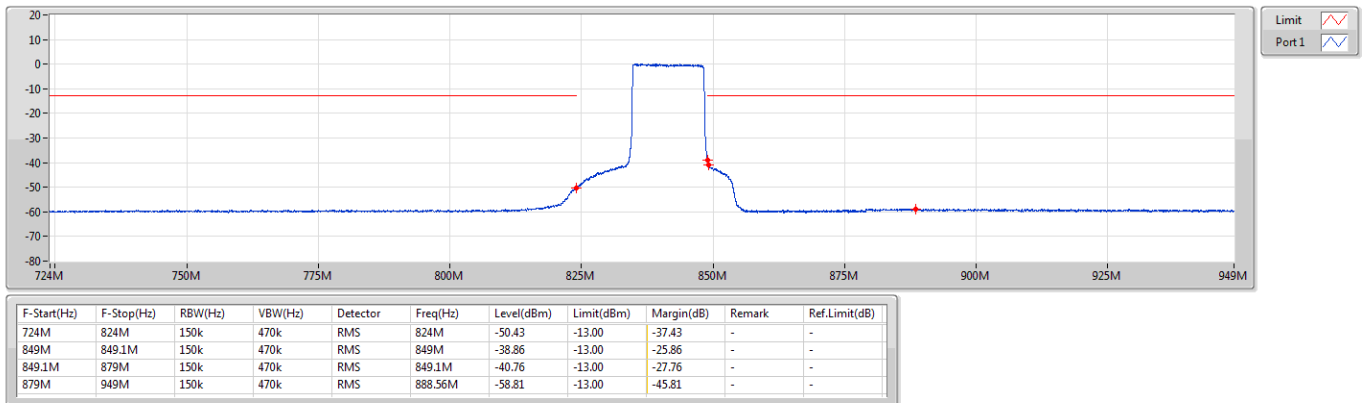
Band 26_LTE_15MHz_Nss1,256QAM_1TX
831.5MHz_256QAM_RB 1,#RB L

CSE-TX-Sum



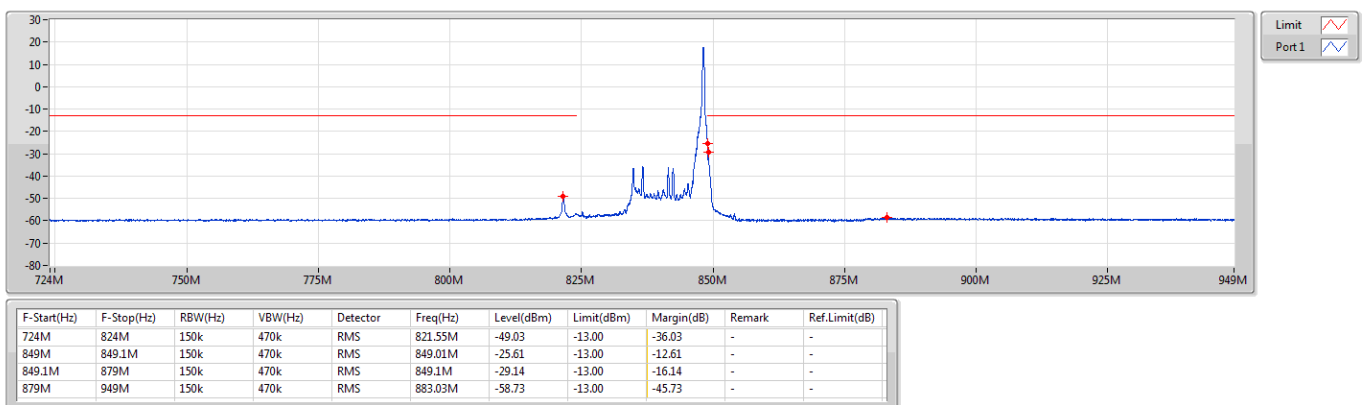
Band 26_LTE_15MHz_Nss1,256QAM_1TX
841.5MHz_256QAM_RB 75,#RB 0

CSE-TX-Sum



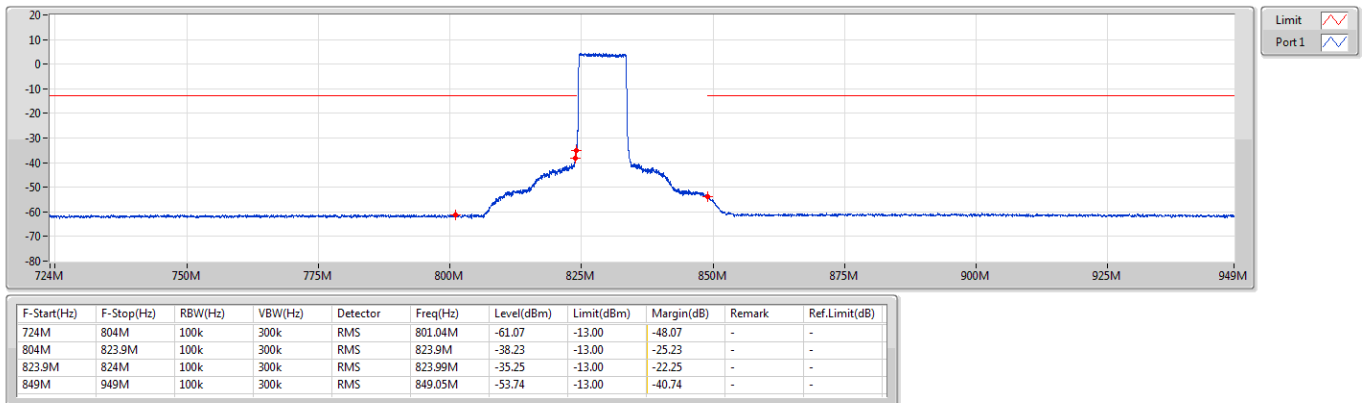
Band 26_LTE_15MHz_Nss1,256QAM_1TX
841.5MHz_256QAM_RB 1,#RB R

CSE-TX-Sum



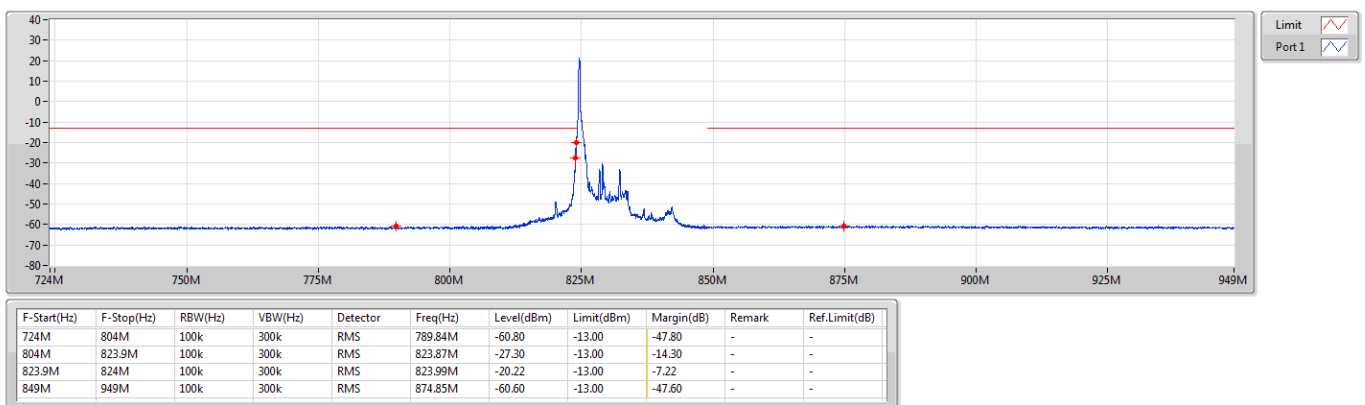
Band 26_LTE_10MHz_Nss1,QPSK_1TX
829MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



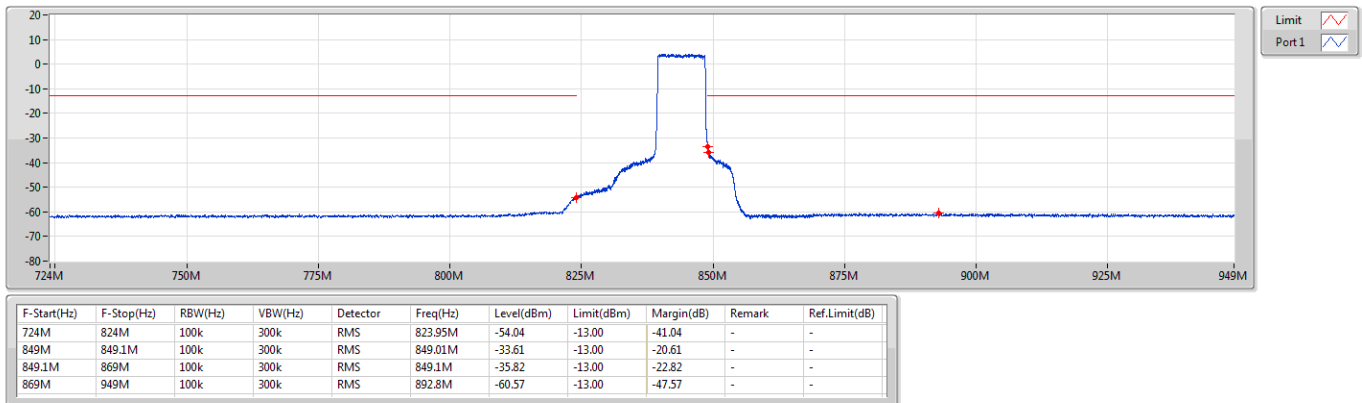
Band 26_LTE_10MHz_Nss1,QPSK_1TX
829MHz_QPSK_RB 1,#RB L

CSE-TX-Sum



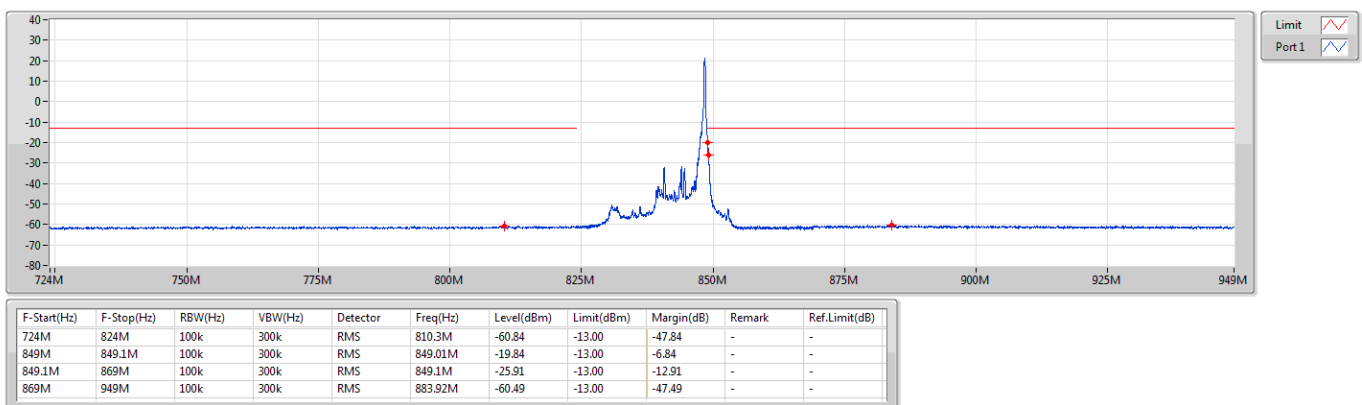
Band 26_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



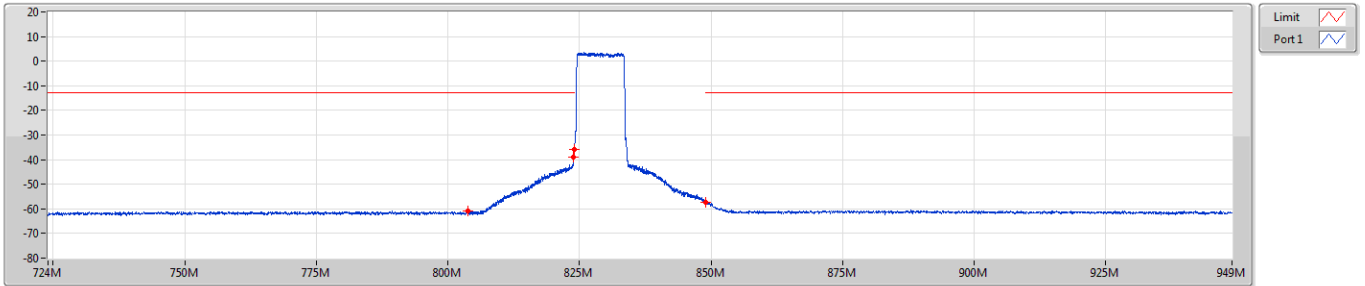
Band 26_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 1,#RB R

CSE-TX-Sum



Band 26_LTE_10MHz_Nss1,16QAM_1TX
829MHz_16QAM_RB 50,#RB 0

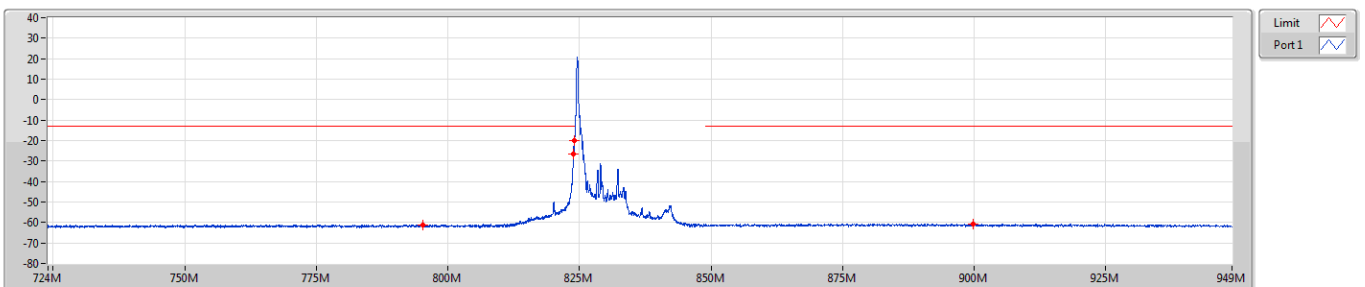
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	803.72M	-61.02	-13.00	-48.02	-	-
804M	823.9M	100k	300k	RMS	823.9M	-38.85	-13.00	-25.85	-	-
823.9M	824M	100k	300k	RMS	824M	-35.83	-13.00	-22.83	-	-
849M	949M	100k	300k	RMS	849.05M	-57.22	-13.00	-44.22	-	-

Band 26_LTE_10MHz_Nss1,16QAM_1TX
829MHz_16QAM_RB 1,#RB L

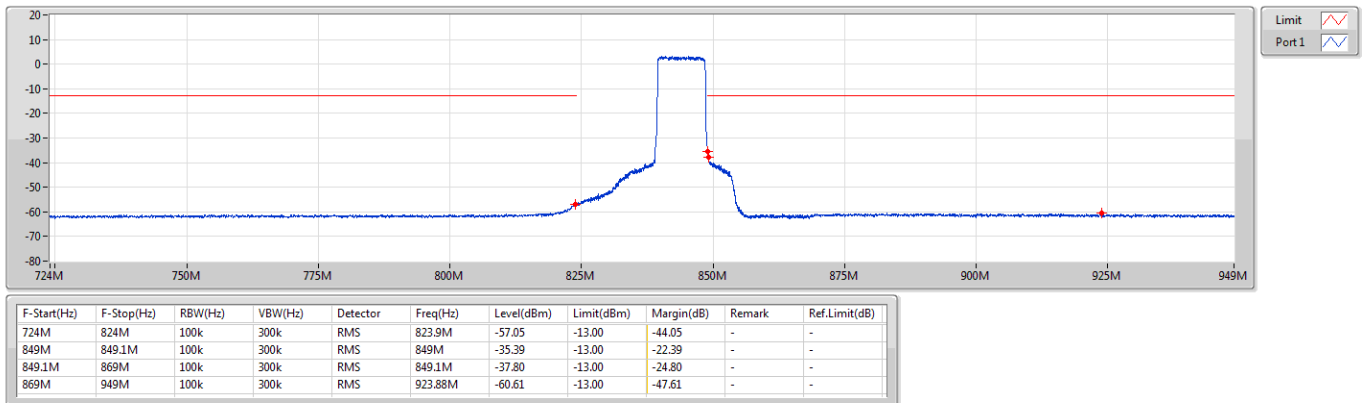
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	795.16M	-61.13	-13.00	-48.13	-	-
804M	823.9M	100k	300k	RMS	823.9M	-26.62	-13.00	-13.62	-	-
823.9M	824M	100k	300k	RMS	823.99M	-19.88	-13.00	-6.88	-	-
849M	949M	100k	300k	RMS	899.75M	-60.65	-13.00	-47.65	-	-

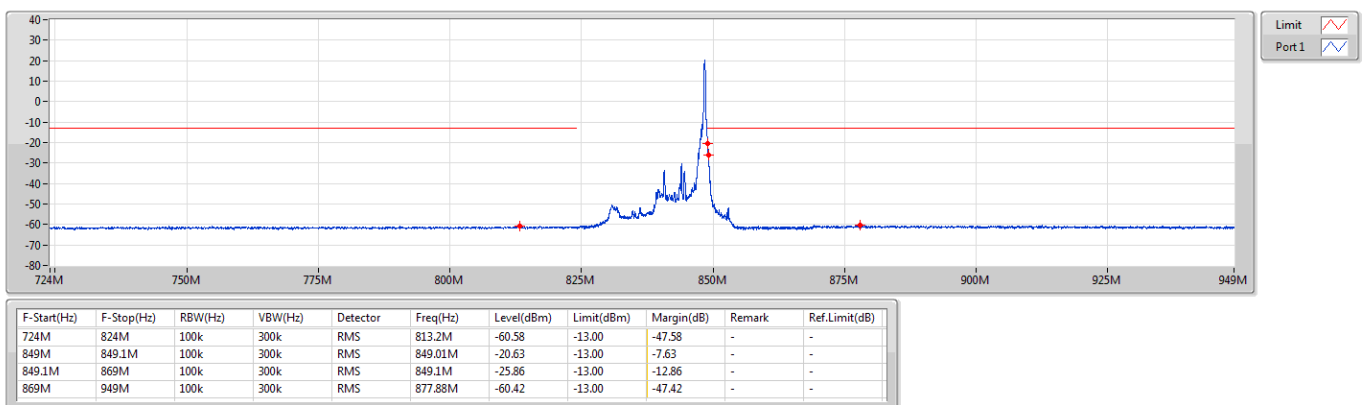
Band 26_LTE_10MHz_Nss1,16QAM_1TX
844MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



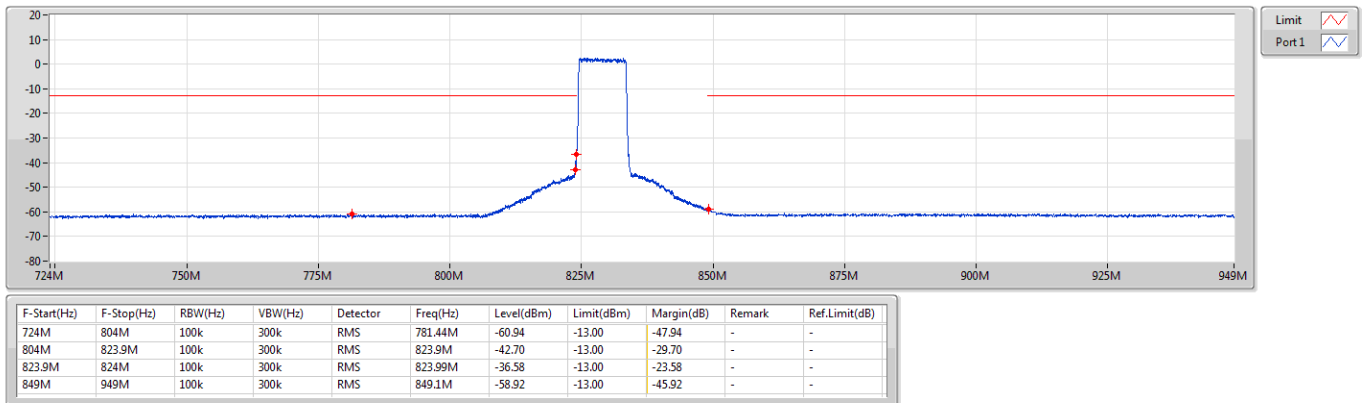
Band 26_LTE_10MHz_Nss1,16QAM_1TX
844MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



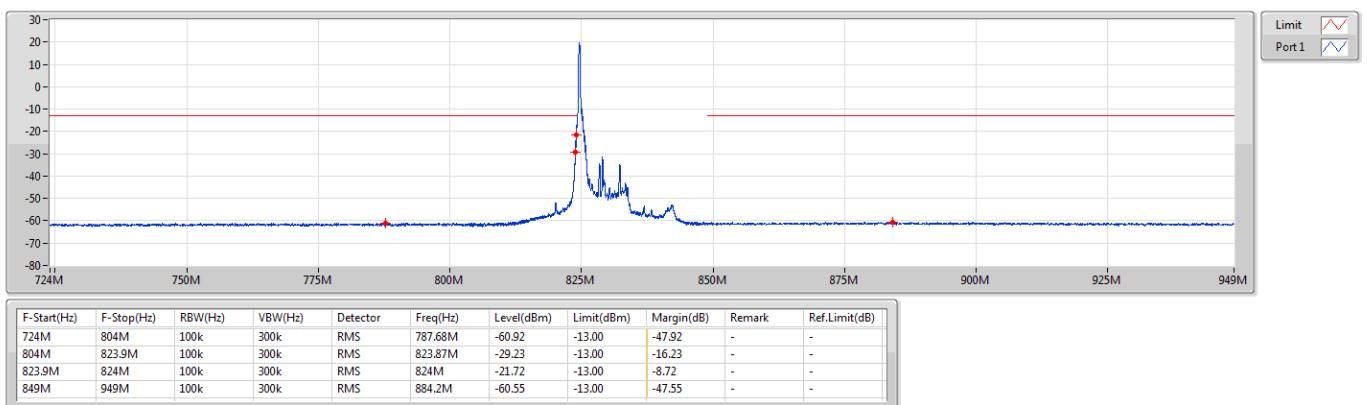
Band 26_LTE_10MHz_Nss1,64QAM_1TX
829MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



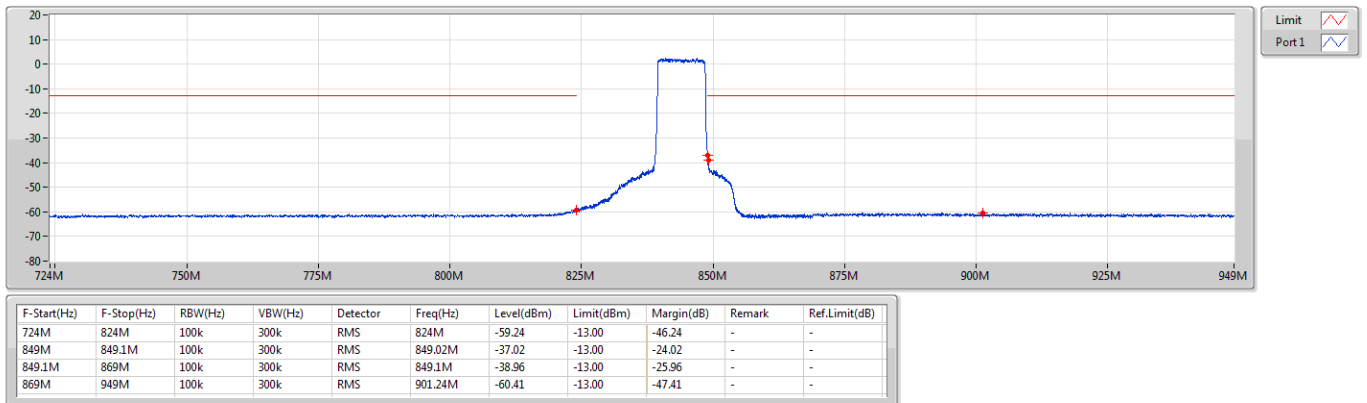
Band 26_LTE_10MHz_Nss1,64QAM_1TX
829MHz_64QAM_RB 1,#RB L

CSE-TX-Sum



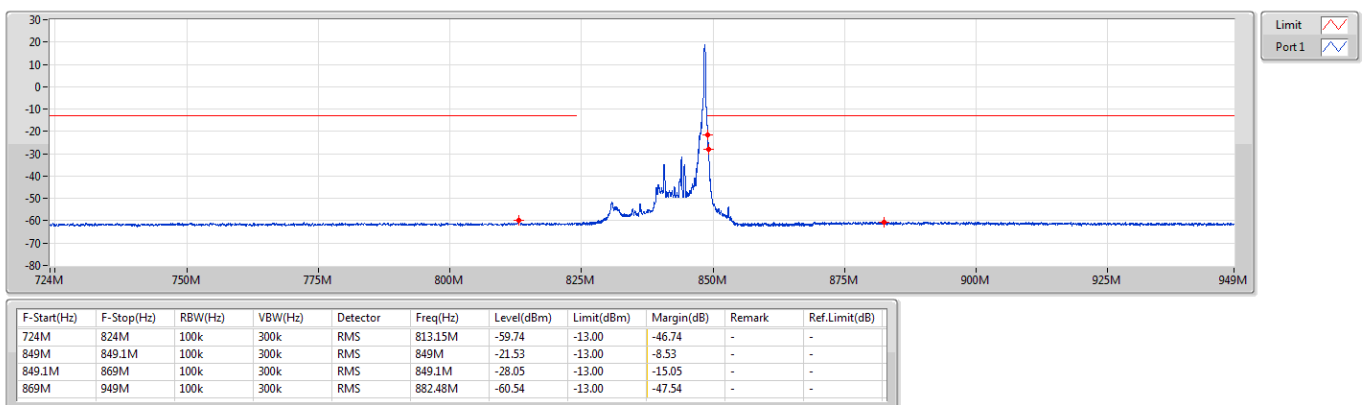
Band 26_LTE_10MHz_Nss1,64QAM_1TX
844MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



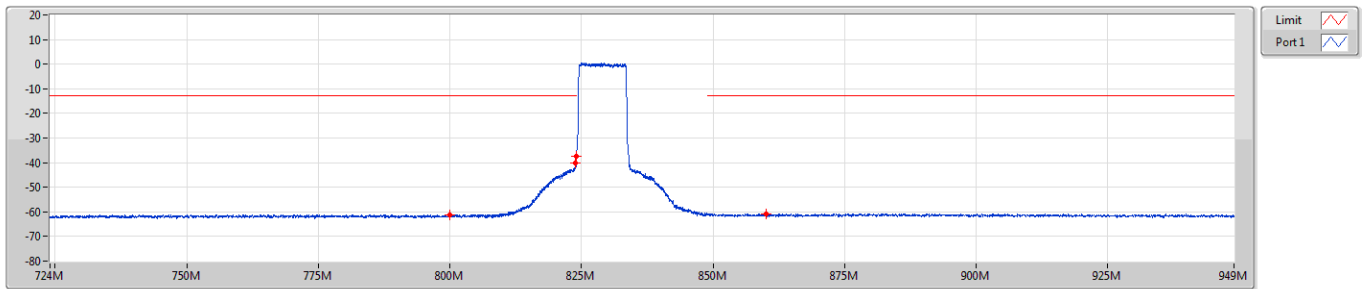
Band 26_LTE_10MHz_Nss1,64QAM_1TX
844MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



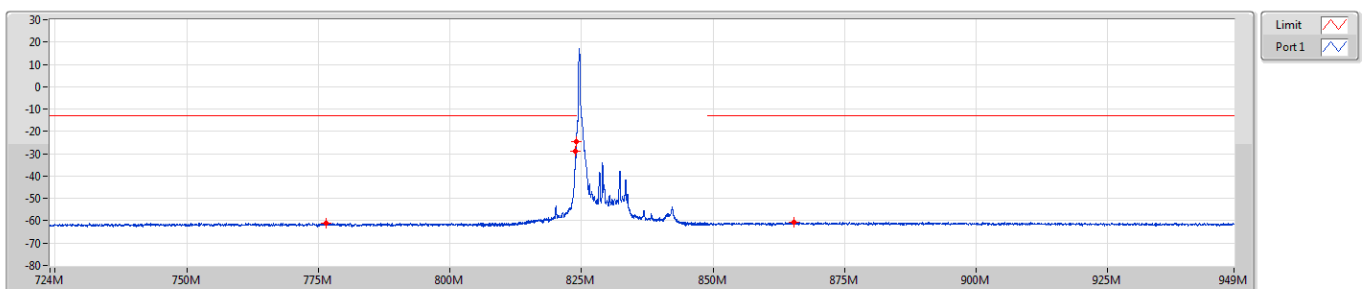
Band 26_LTE_10MHz_Nss1,256QAM_1TX
829MHz_256QAM_RB 50,#RB 0

CSE-TX-Sum



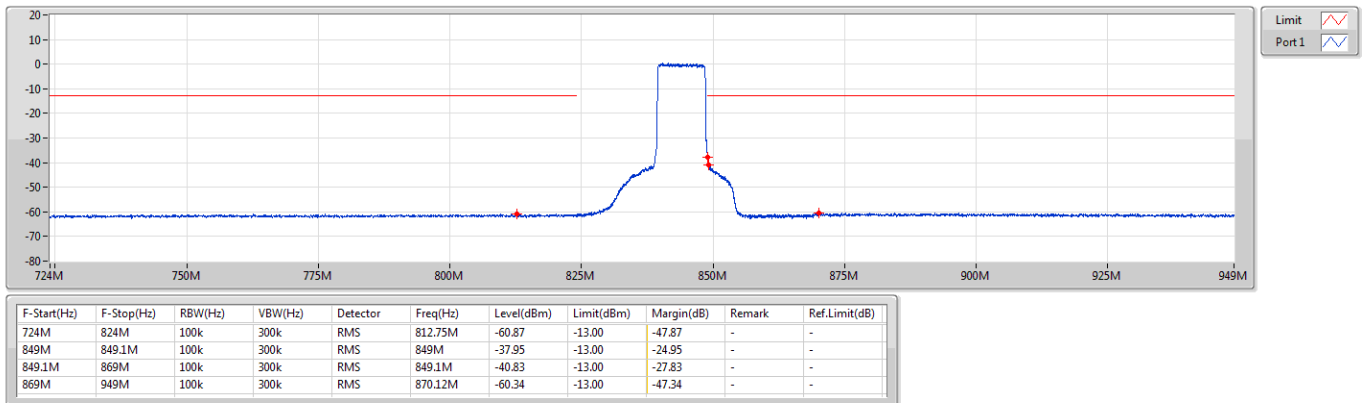
Band 26_LTE_10MHz_Nss1,256QAM_1TX
829MHz_256QAM_RB 1,#RB L

CSE-TX-Sum



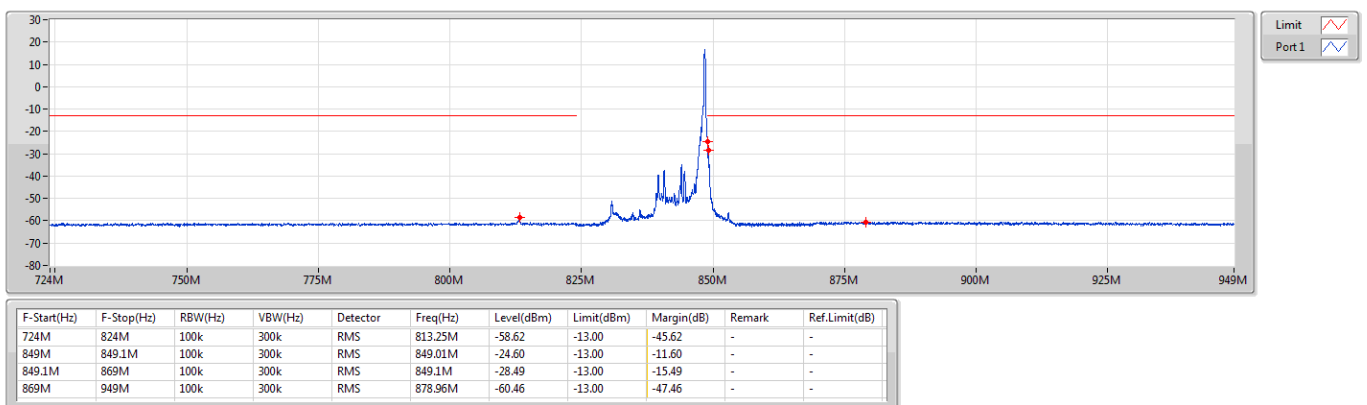
Band 26_LTE_10MHz_Nss1,256QAM_1TX
844MHz_256QAM_RB 50,#RB 0

CSE-TX-Sum



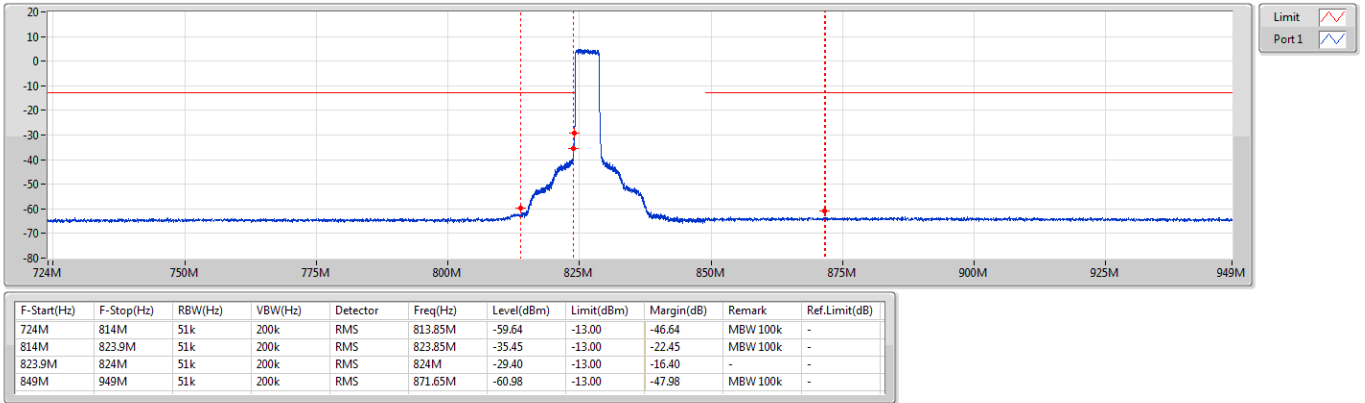
Band 26_LTE_10MHz_Nss1,256QAM_1TX
844MHz_256QAM_RB 1,#RB R

CSE-TX-Sum



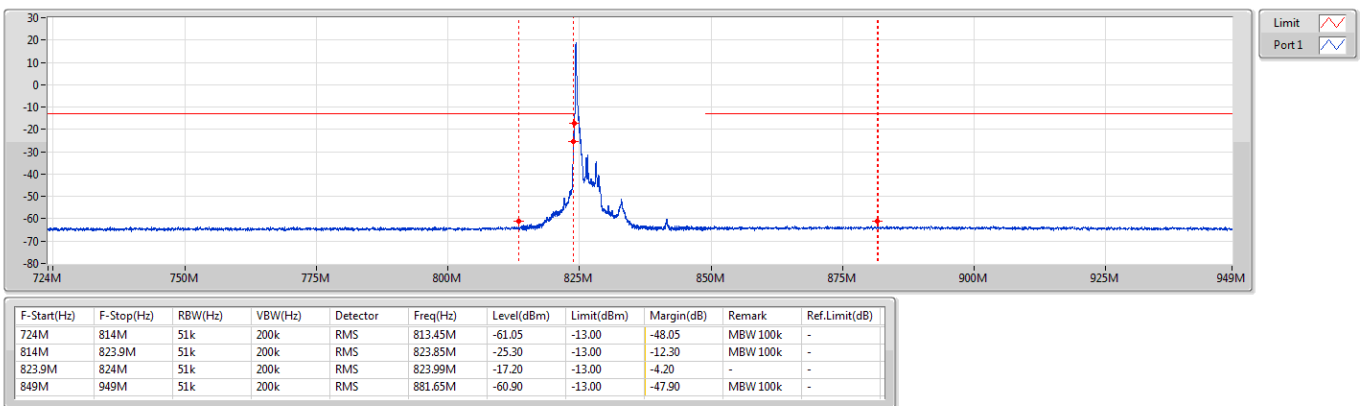
Band 26_LTE_5MHz_Nss1,QPSK_1TX
826.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



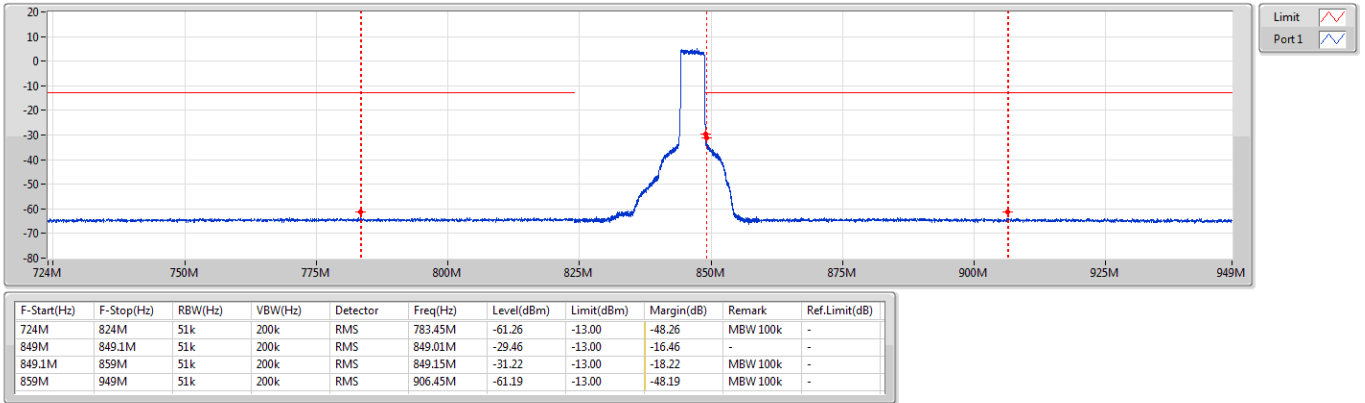
Band 26_LTE_5MHz_Nss1,QPSK_1TX
826.5MHz_QPSK_RB 1,#RB L

CSE-TX-Sum



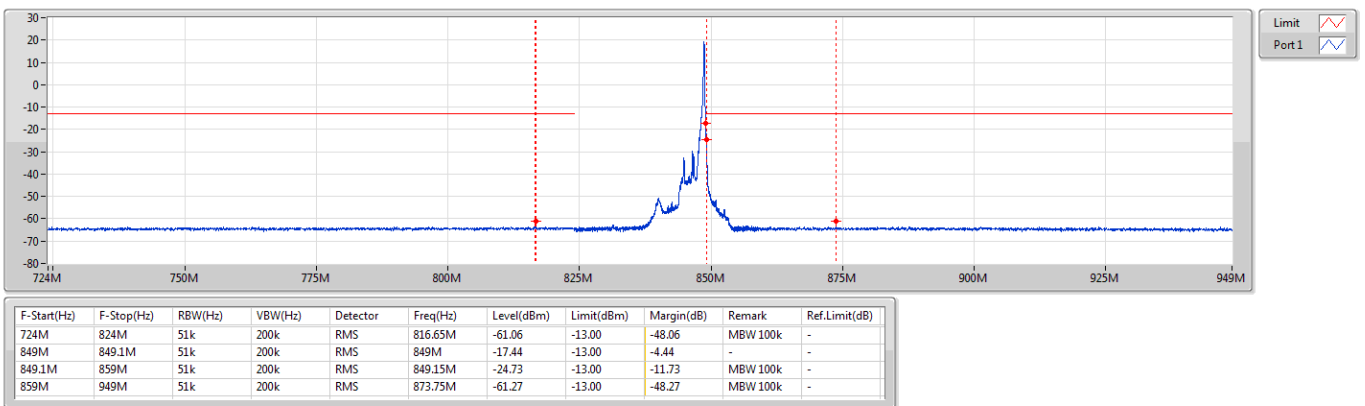
Band 26_LTE_5MHz_Nss1,QPSK_1TX
846.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



Band 26_LTE_5MHz_Nss1,QPSK_1TX
846.5MHz_QPSK_RB 1,#RB R

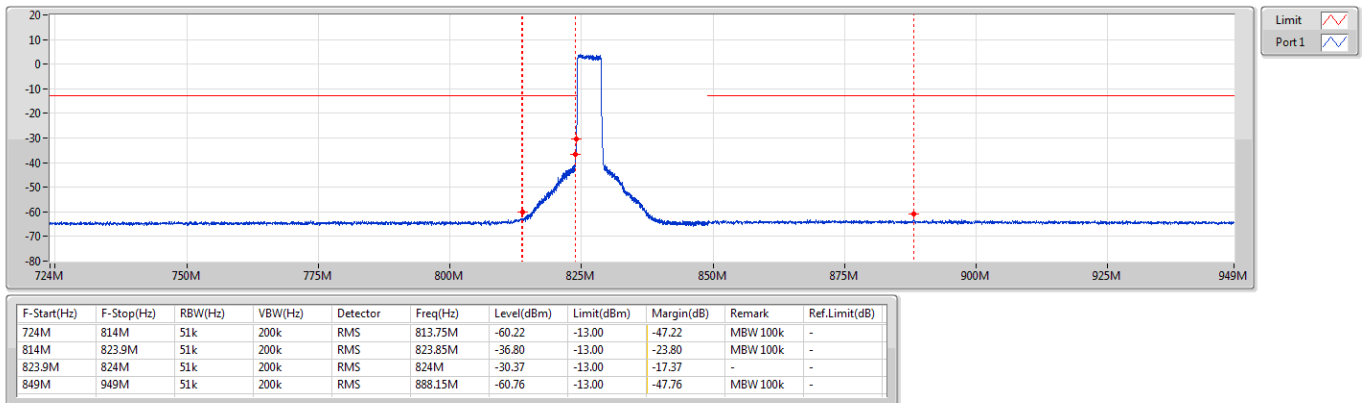
CSE-TX-Sum





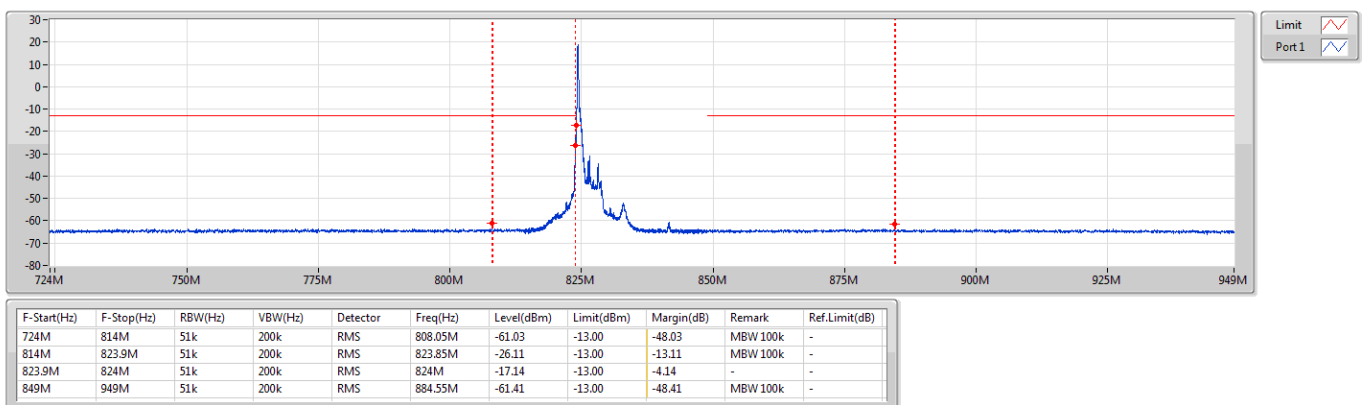
Band 26_LTE_5MHz_Nss1,16QAM_1TX
826.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



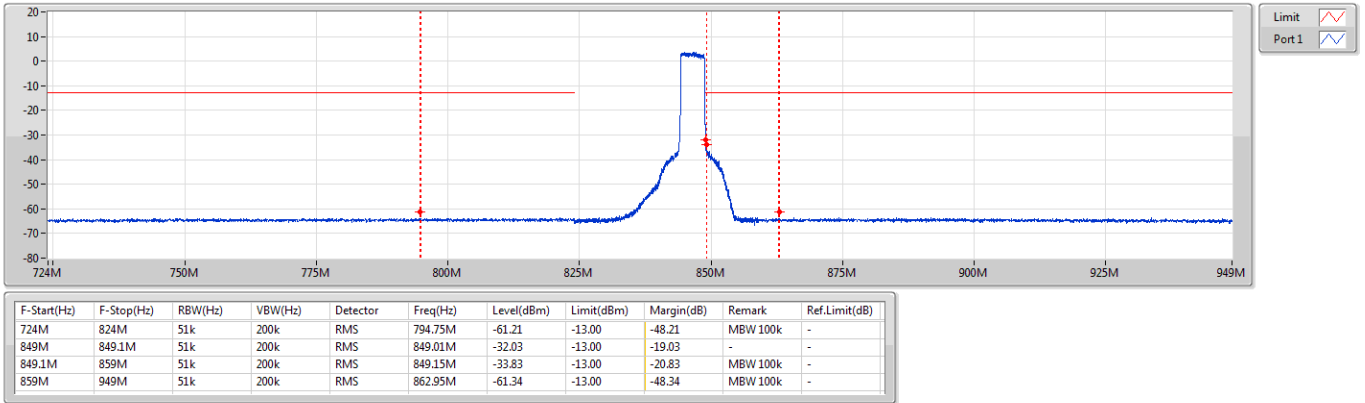
Band 26_LTE_5MHz_Nss1,16QAM_1TX
826.5MHz_16QAM_RB 1,#RB L

CSE-TX-Sum



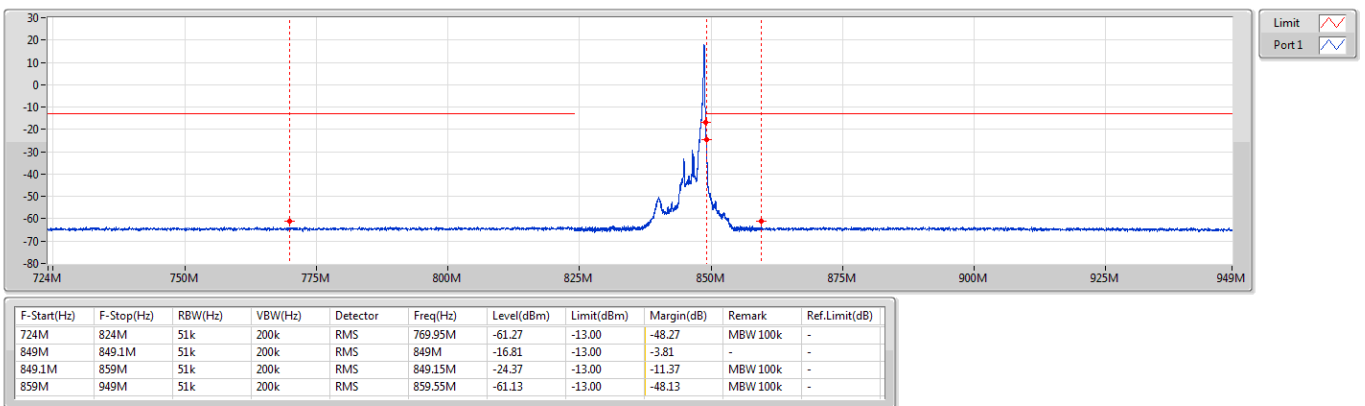
Band 26_LTE_5MHz_Nss1,16QAM_1TX
846.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



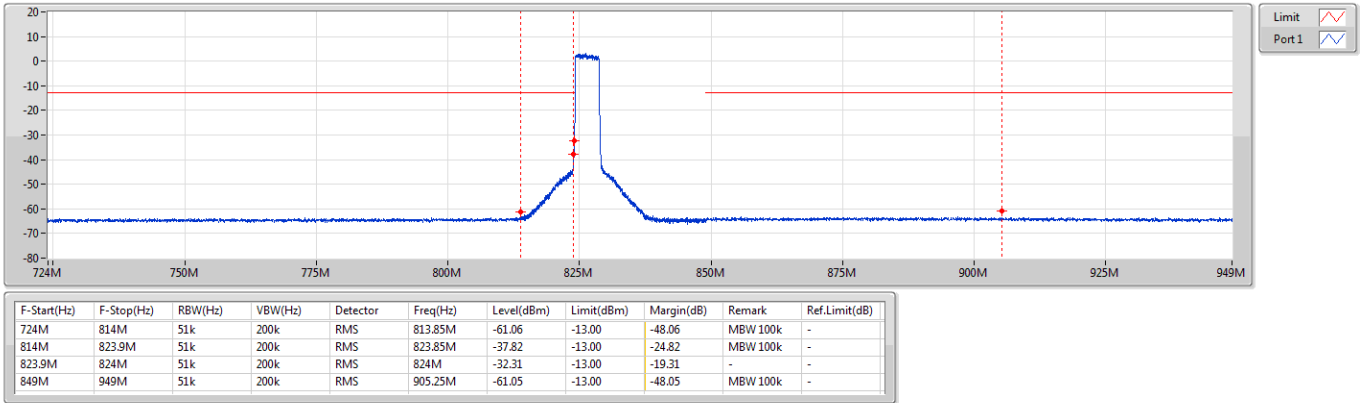
Band 26_LTE_5MHz_Nss1,16QAM_1TX
846.5MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



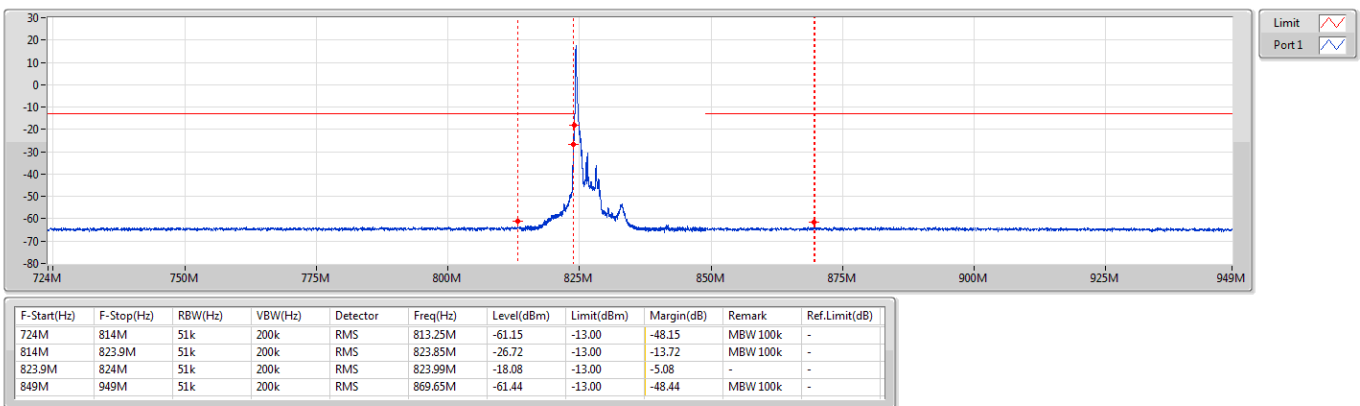
Band 26_LTE_5MHz_Nss1,64QAM_1TX 826.5MHz_64QAM_RB 25,#RB 0

CSE-TX-Sum



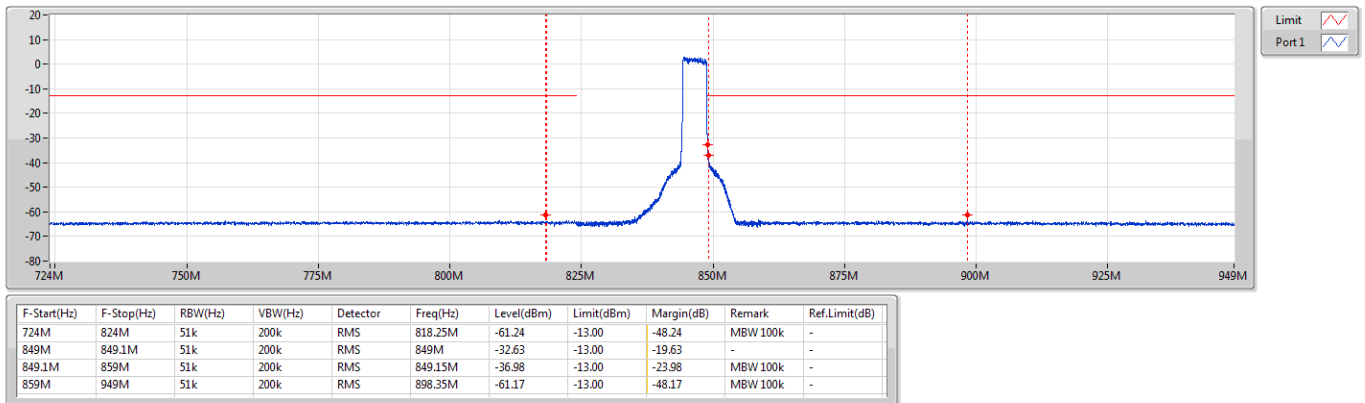
Band 26_LTE_5MHz_Nss1,64QAM_1TX 826.5MHz_64QAM_RB 1,#RB L

CSE-TX-Sum



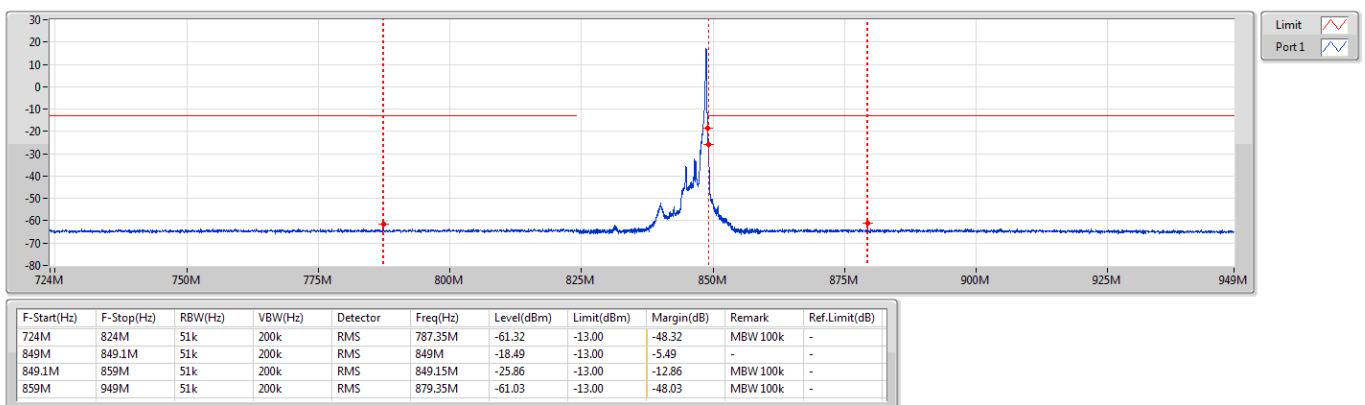
Band 26_LTE_5MHz_Nss1,64QAM_1TX
846.5MHz_64QAM_RB 25,#RB 0

CSE-TX-Sum



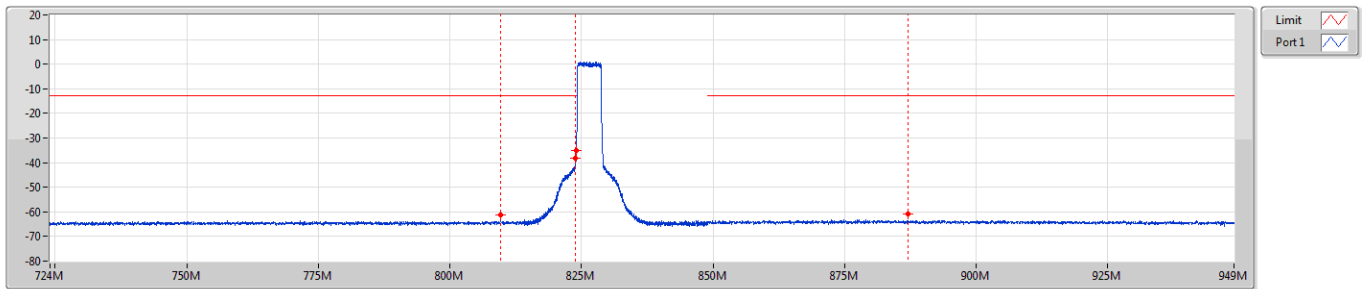
Band 26_LTE_5MHz_Nss1,64QAM_1TX
846.5MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



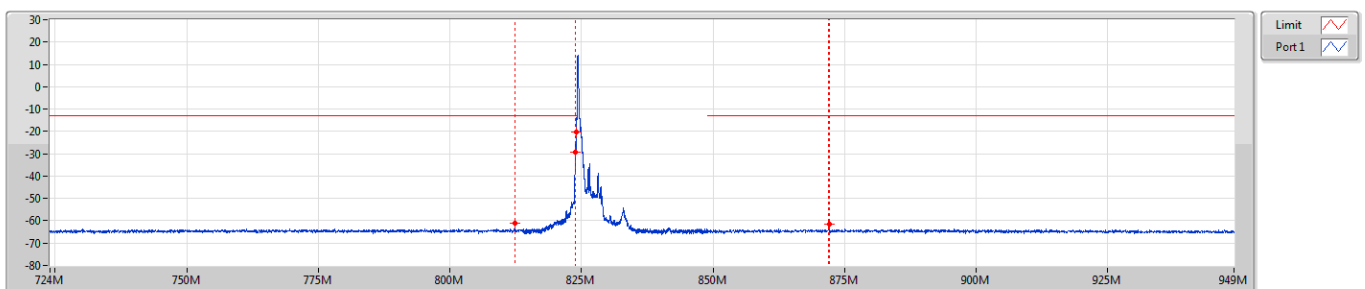
Band 26_LTE_5MHz_Nss1,256QAM_1TX
826.5MHz_256QAM_RB 25,#RB 0

CSE-TX-Sum



Band 26_LTE_5MHz_Nss1,256QAM_1TX
826.5MHz_256QAM_RB 1,#RB L

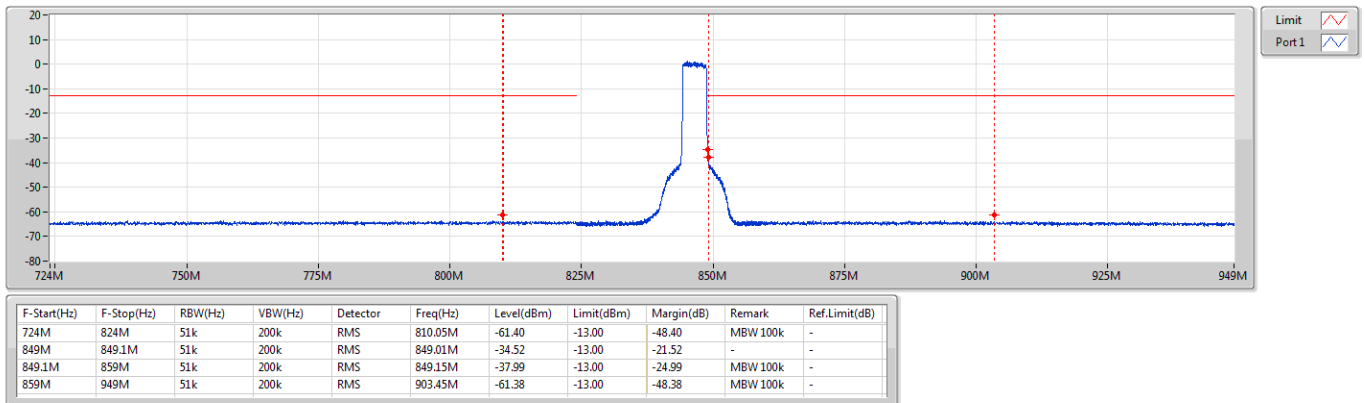
CSE-TX-Sum





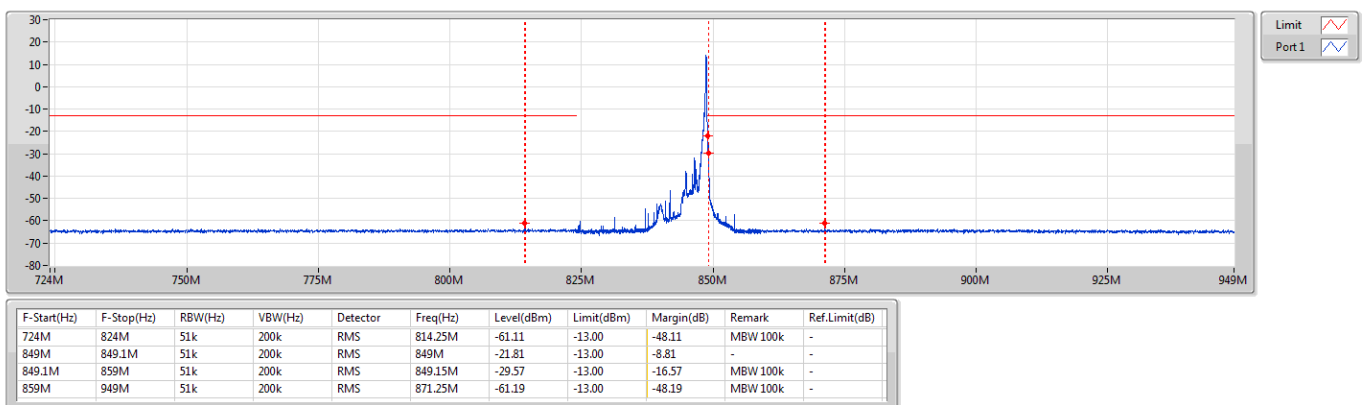
Band 26_LTE_5MHz_Nss1,256QAM_1TX
846.5MHz_256QAM_RB 25,#RB 0

CSE-TX-Sum



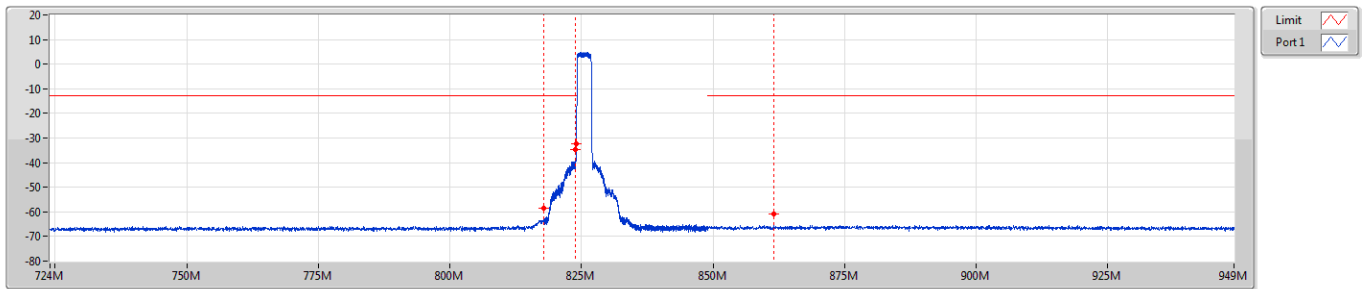
Band 26_LTE_5MHz_Nss1,256QAM_1TX
846.5MHz_256QAM_RB 1,#RB R

CSE-TX-Sum



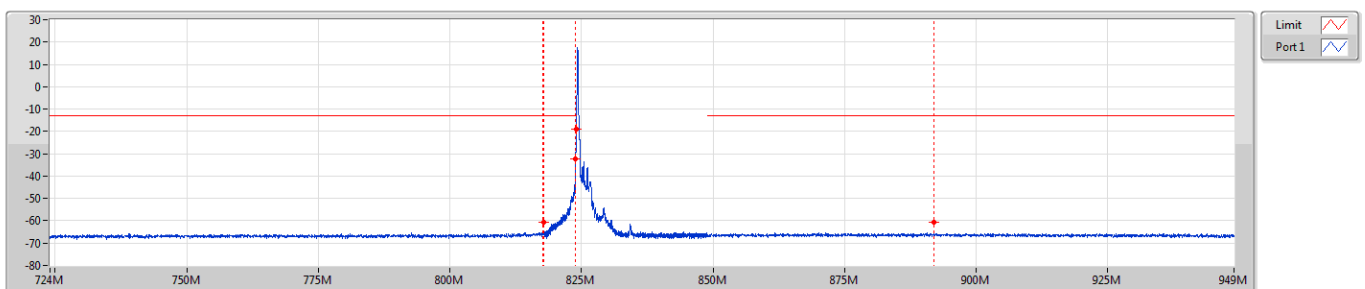
Band 26_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz_QPSK_RB 1,#RB L

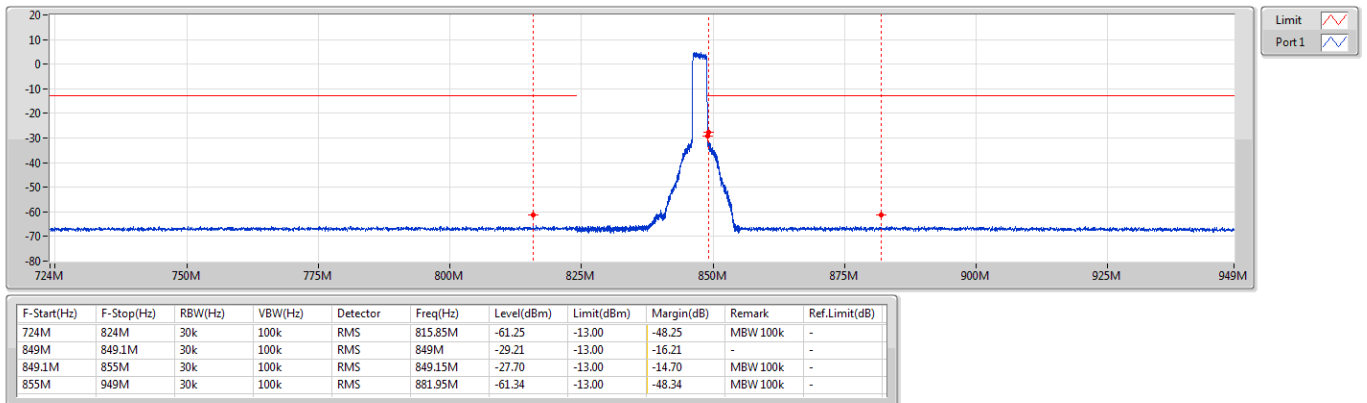
CSE-TX-Sum





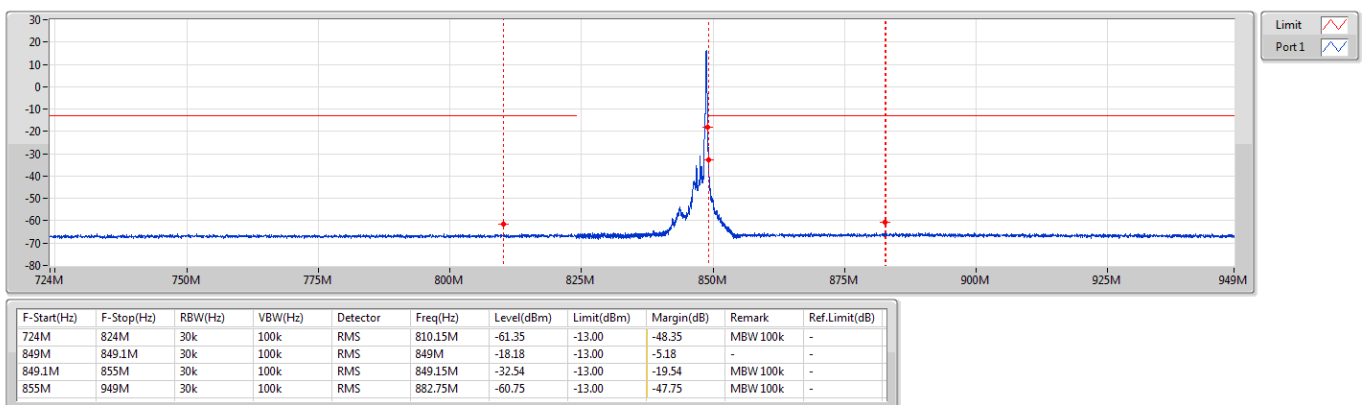
Band 26_LTE_3MHz_Nss1,QPSK_1TX
847.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,QPSK_1TX
847.5MHz_QPSK_RB 1,#RB R

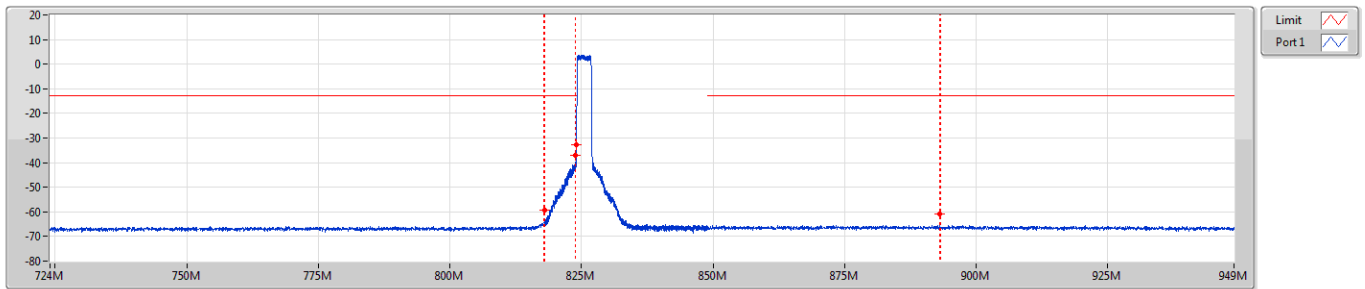
CSE-TX-Sum





Band 26_LTE_3MHz_Nss1,16QAM_1TX
825.5MHz_16QAM_RB 15,#RB 0

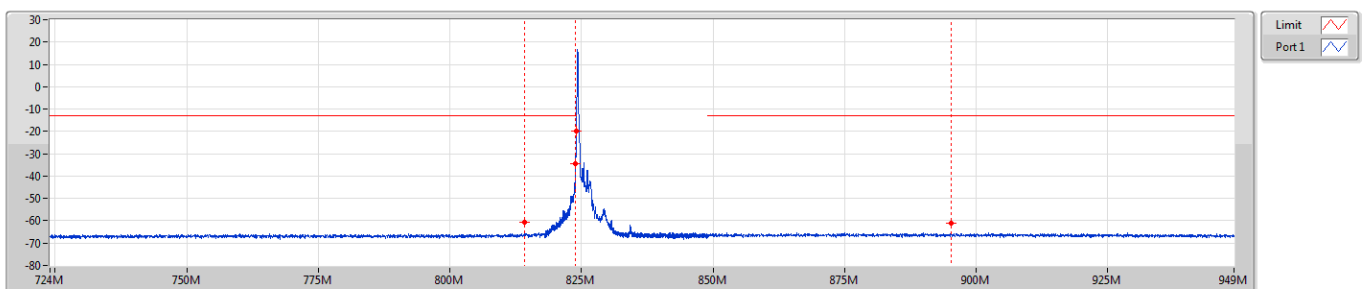
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	818M	30k	100k	RMS	817.95M	-59.30	-13.00	-46.30	MBW 100k	-
818M	823.9M	30k	100k	RMS	823.85M	-37.01	-13.00	-24.01	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-32.69	-13.00	-19.69	-	-
849M	949M	30k	100k	RMS	893.15M	-60.86	-13.00	-47.86	MBW 100k	-

Band 26_LTE_3MHz_Nss1,16QAM_1TX
825.5MHz_16QAM_RB 1,#RB L

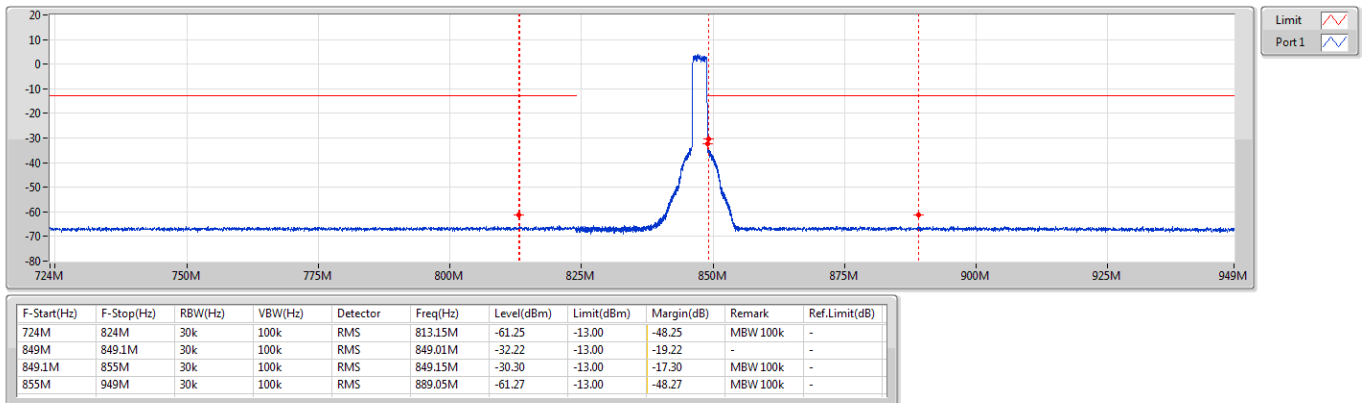
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	818M	30k	100k	RMS	814.15M	-60.58	-13.00	-47.58	MBW 100k	-
818M	823.9M	30k	100k	RMS	823.85M	-34.30	-13.00	-21.30	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-19.86	-13.00	-6.86	-	-
849M	949M	30k	100k	RMS	895.25M	-60.88	-13.00	-47.88	MBW 100k	-

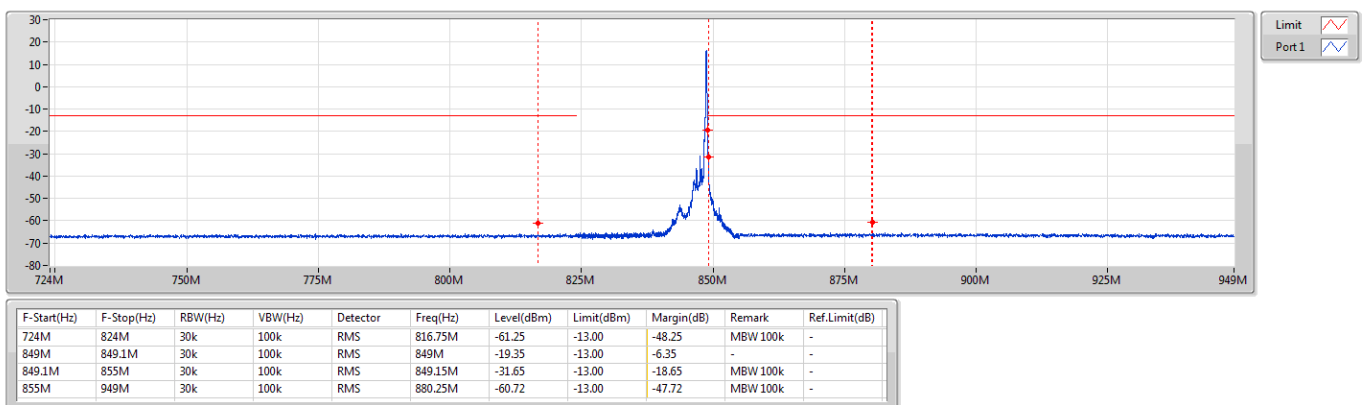
Band 26_LTE_3MHz_Nss1,16QAM_1TX
847.5MHz_16QAM_RB 15,#RB 0

CSE-TX-Sum



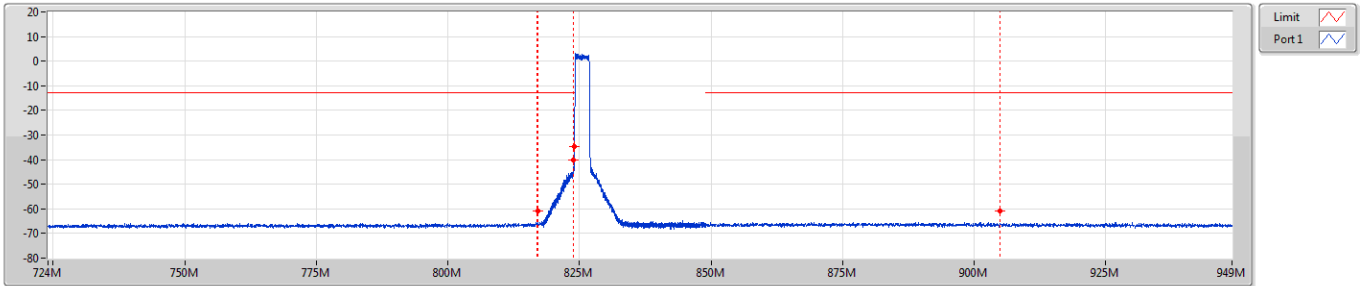
Band 26_LTE_3MHz_Nss1,16QAM_1TX
847.5MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,64QAM_1TX
825.5MHz_64QAM_RB 15,#RB 0

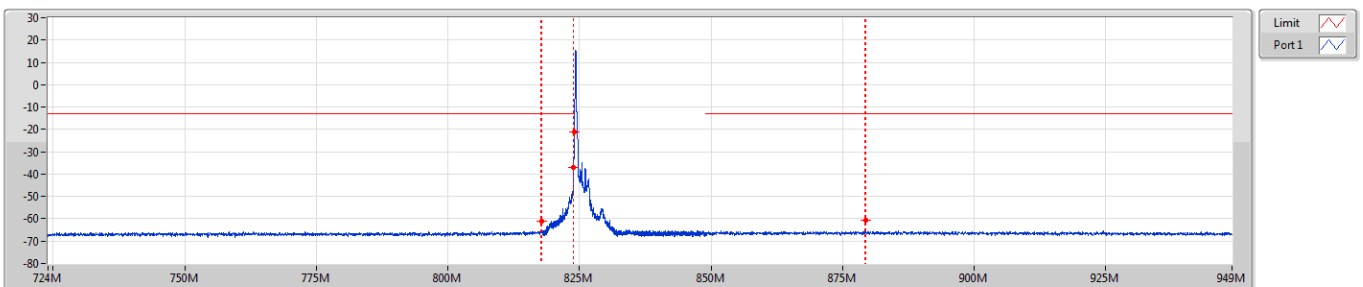
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	818M	30k	100k	RMS	817.05M	-60.68	-13.00	-47.68	MBW 100k	-
818M	823.9M	30k	100k	RMS	823.85M	-40.10	-13.00	-27.10	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-34.82	-13.00	-21.82	-	-
849M	949M	30k	100k	RMS	904.95M	-60.93	-13.00	-47.93	MBW 100k	-

Band 26_LTE_3MHz_Nss1,64QAM_1TX
825.5MHz_64QAM_RB 1,#RB L

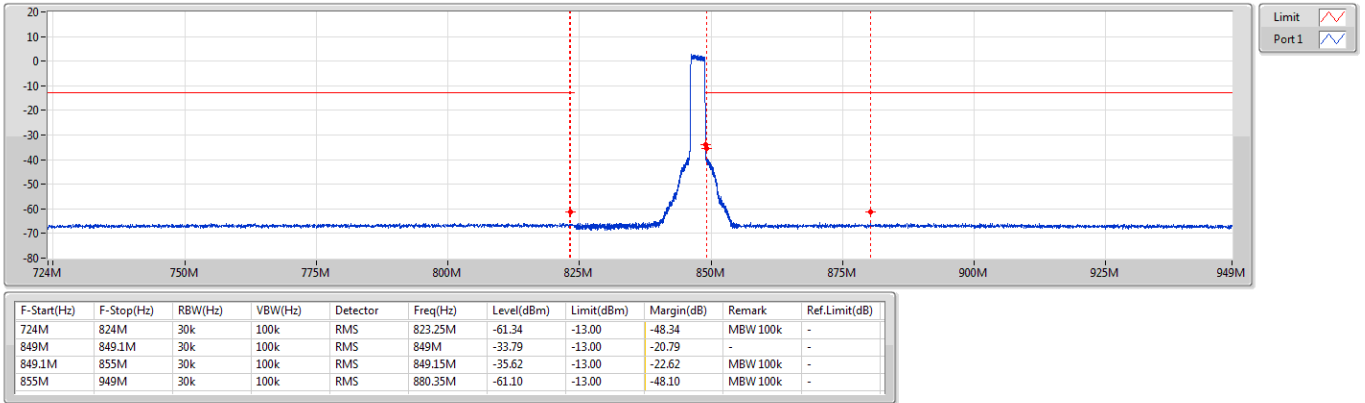
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	818M	30k	100k	RMS	817.75M	-60.97	-13.00	-47.97	MBW 100k	-
818M	823.9M	30k	100k	RMS	823.85M	-37.22	-13.00	-24.22	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-21.24	-13.00	-8.24	-	-
849M	949M	30k	100k	RMS	879.35M	-60.85	-13.00	-47.85	MBW 100k	-

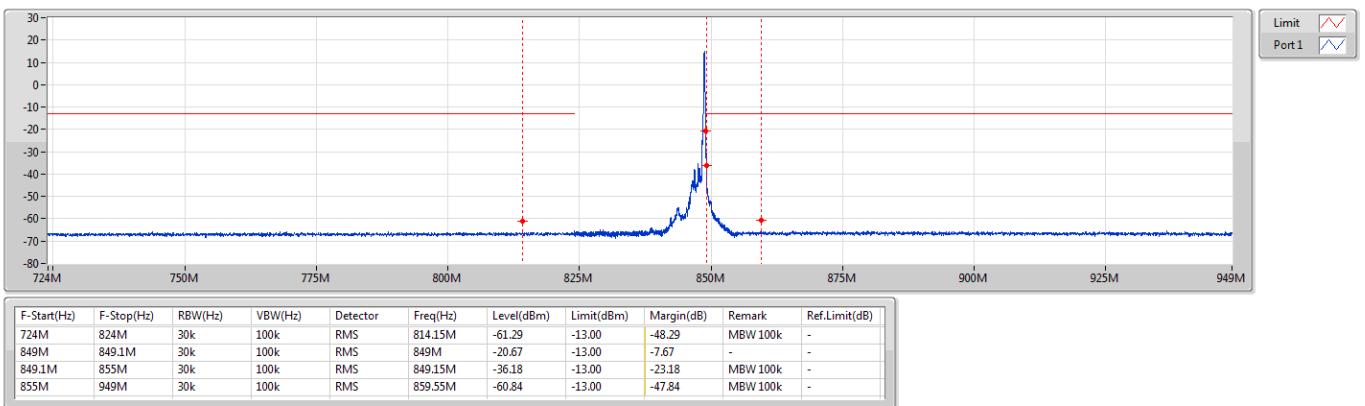
Band 26_LTE_3MHz_Nss1,64QAM_1TX
847.5MHz_64QAM_RB 15,#RB 0

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,64QAM_1TX
847.5MHz_64QAM_RB 1,#RB R

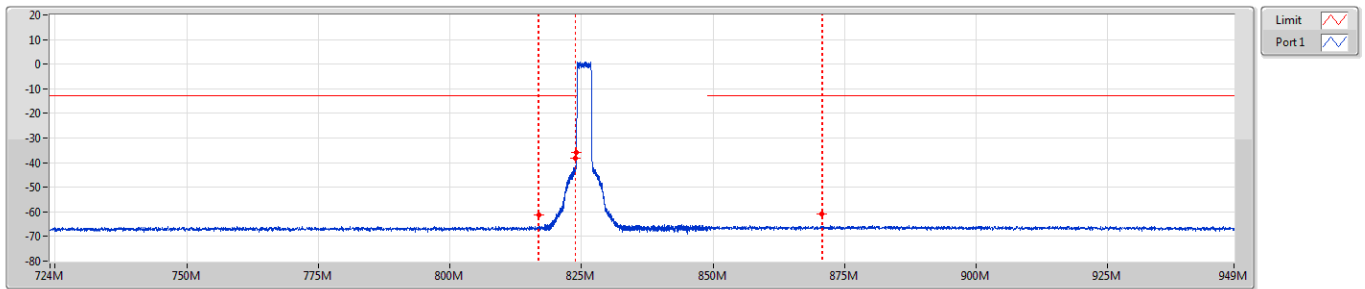
CSE-TX-Sum





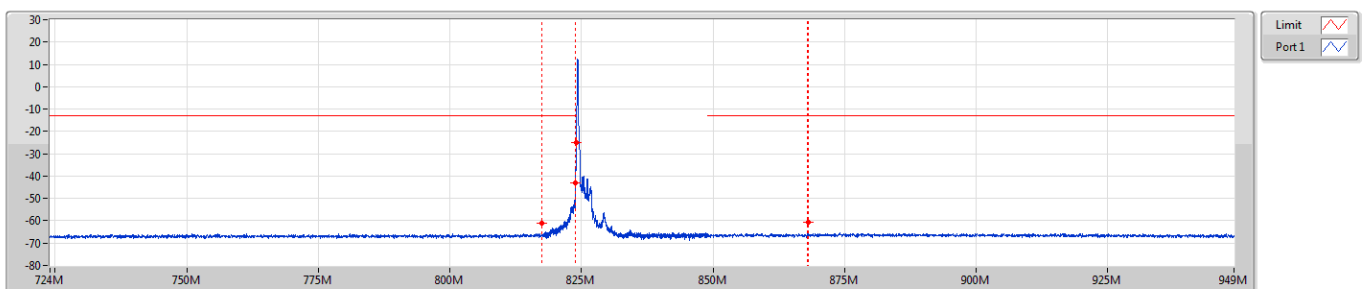
Band 26_LTE_3MHz_Nss1,256QAM_1TX
825.5MHz_256QAM_RB 15,#RB 0

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,256QAM_1TX
825.5MHz_256QAM_RB 1,#RB L

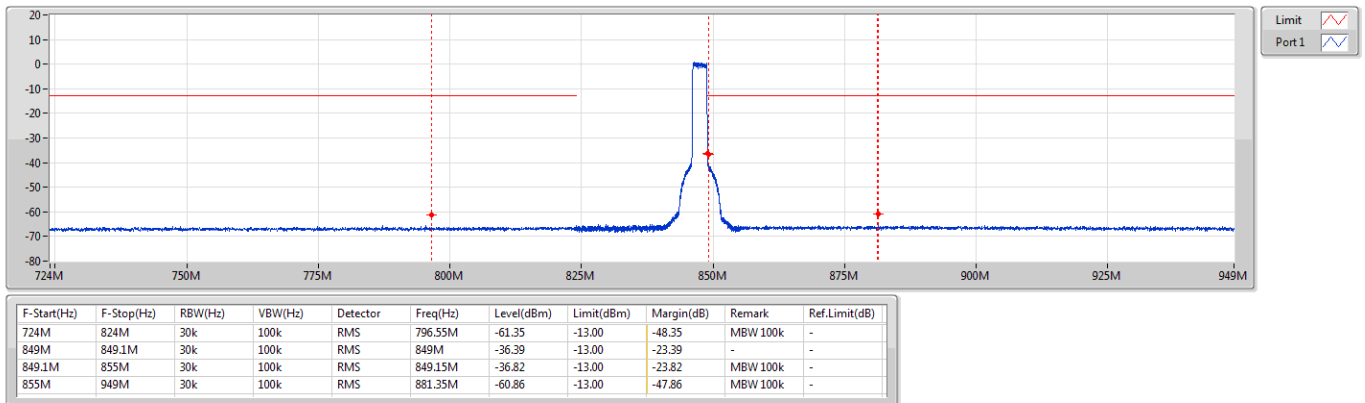
CSE-TX-Sum





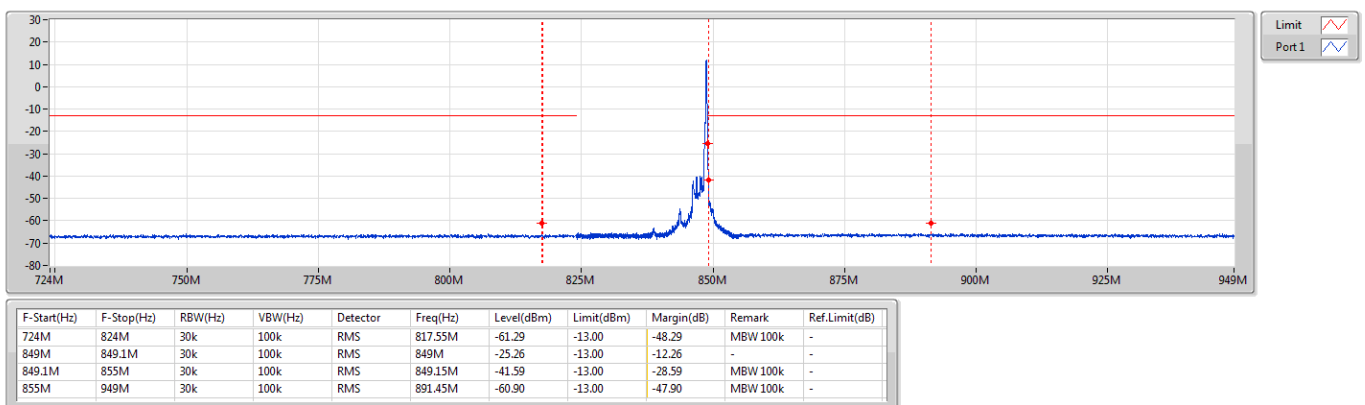
Band 26_LTE_3MHz_Nss1,256QAM_1TX
847.5MHz_256QAM_RB 15,#RB 0

CSE-TX-Sum



Band 26_LTE_3MHz_Nss1,256QAM_1TX
847.5MHz_256QAM_RB 1,#RB R

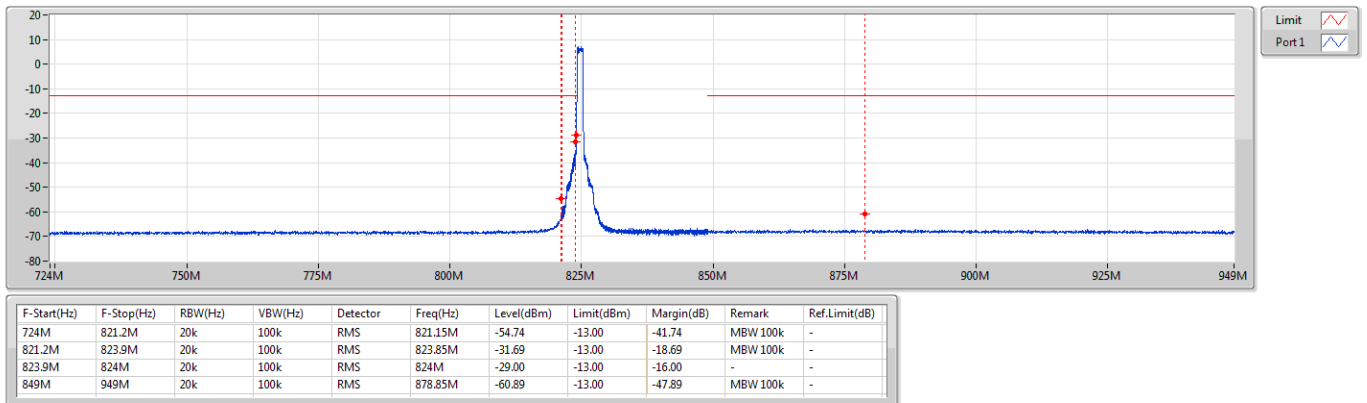
CSE-TX-Sum





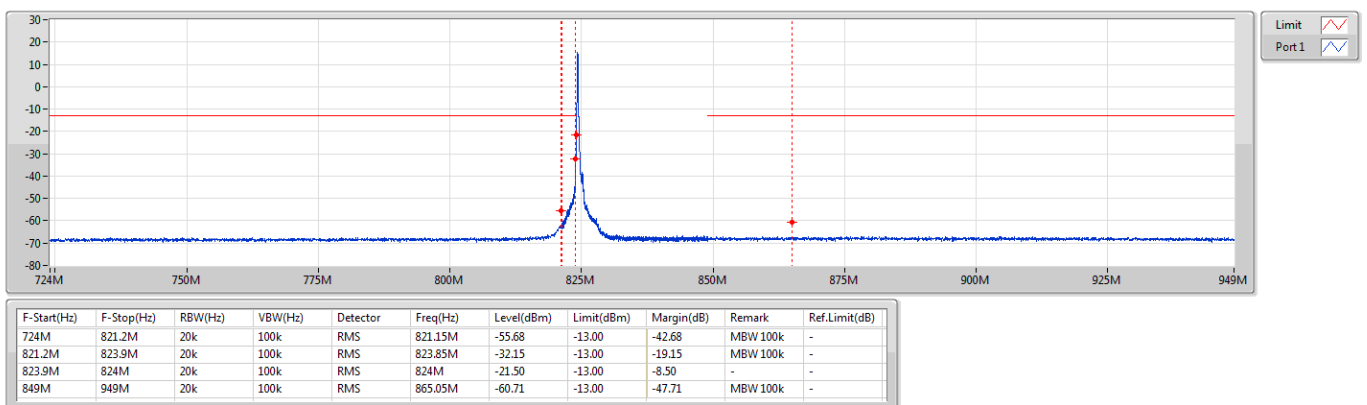
Band 26_LTE_1.4MHz_Nss1,QPSK_1TX
824.7MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



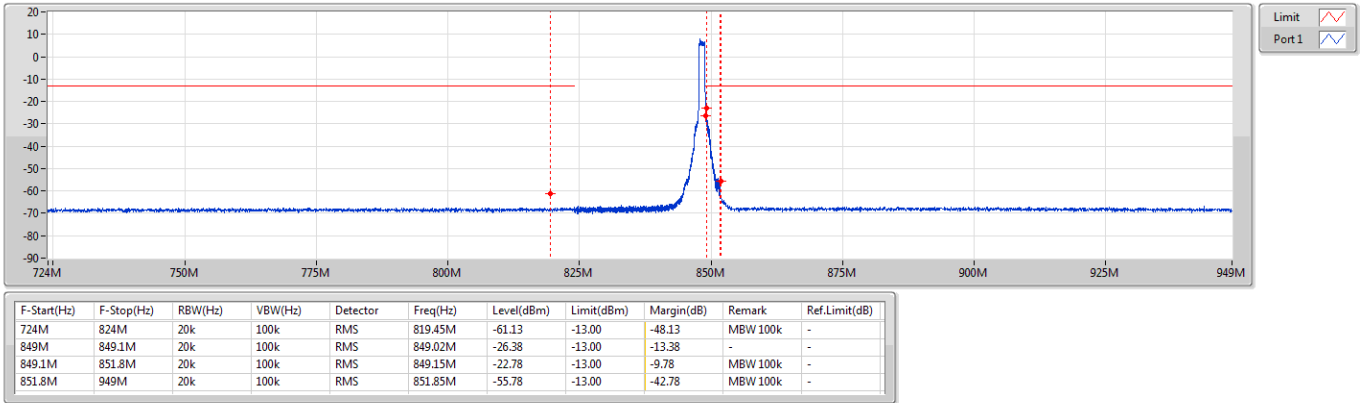
Band 26_LTE_1.4MHz_Nss1,QPSK_1TX
824.7MHz_QPSK_RB 1,#RB L

CSE-TX-Sum



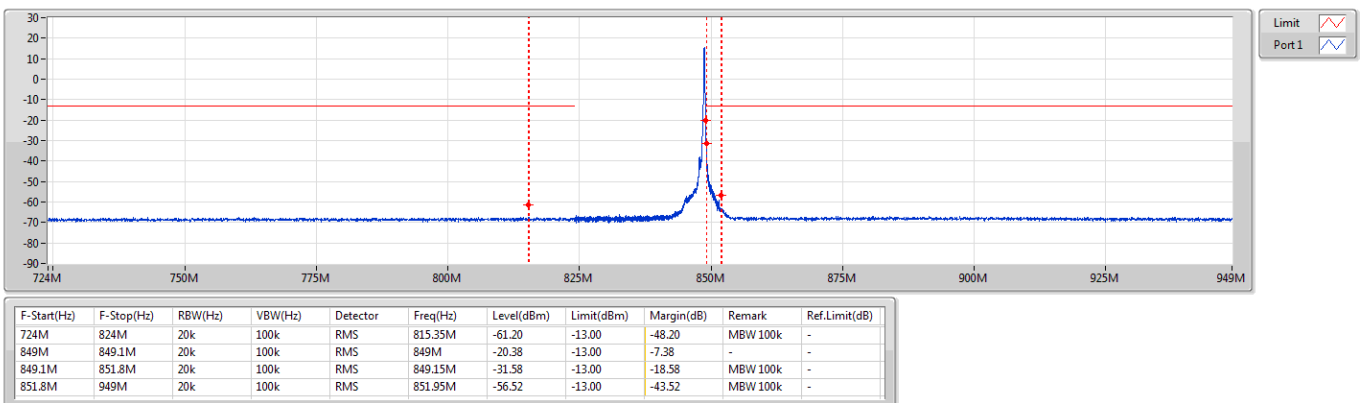
Band 26_LTE_1.4MHz_Nss1,QPSK_1TX
848.3MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



Band 26_LTE_1.4MHz_Nss1,QPSK_1TX
848.3MHz_QPSK_RB 1,#RB R

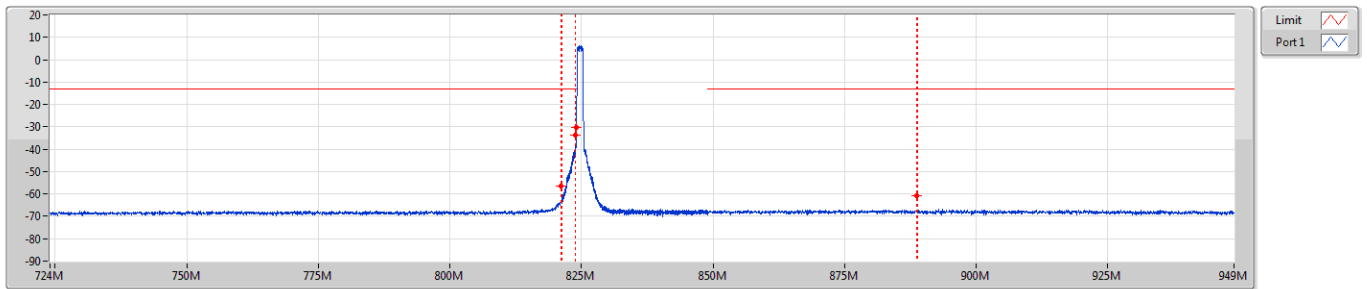
CSE-TX-Sum





Band 26_LTE_1.4MHz_Nss1,16QAM_1TX
824.7MHz_16QAM_RB 6,#RB 0

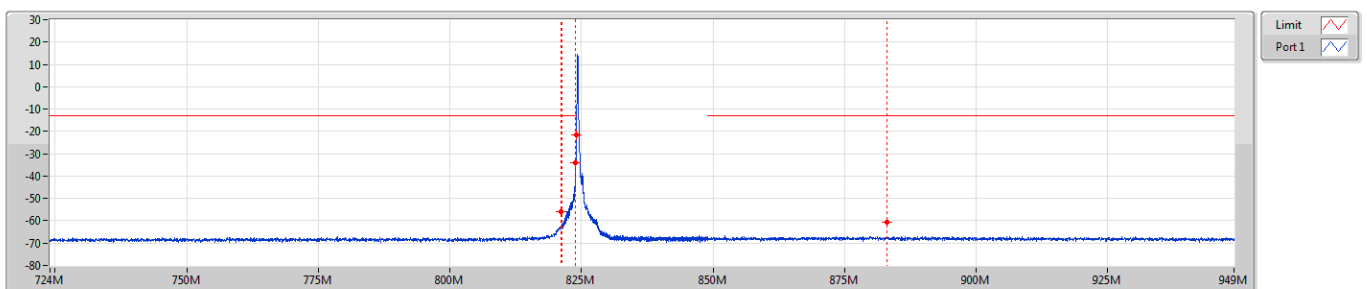
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	821.2M	20k	100k	RMS	821.15M	-56.61	-13.00	-43.61	MBW 100k	-
821.2M	823.9M	20k	100k	RMS	823.85M	-33.65	-13.00	-20.65	MBW 100k	-
823.9M	824M	20k	100k	RMS	824M	-30.34	-13.00	-17.34	-	-
849M	949M	20k	100k	RMS	888.75M	-60.57	-13.00	-47.57	MBW 100k	-

Band 26_LTE_1.4MHz_Nss1,16QAM_1TX
824.7MHz_16QAM_RB 1,#RB L

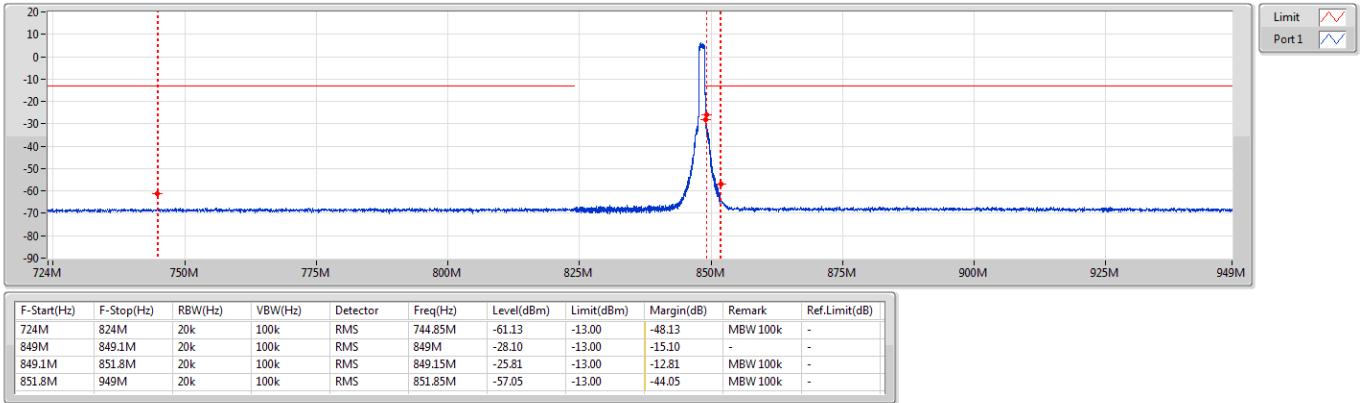
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
724M	821.2M	20k	100k	RMS	821.15M	-55.95	-13.00	-42.95	MBW 100k	-
821.2M	823.9M	20k	100k	RMS	823.85M	-34.18	-13.00	-21.18	MBW 100k	-
823.9M	824M	20k	100k	RMS	824M	-21.49	-13.00	-8.49	-	-
849M	949M	20k	100k	RMS	883.05M	-60.62	-13.00	-47.62	MBW 100k	-

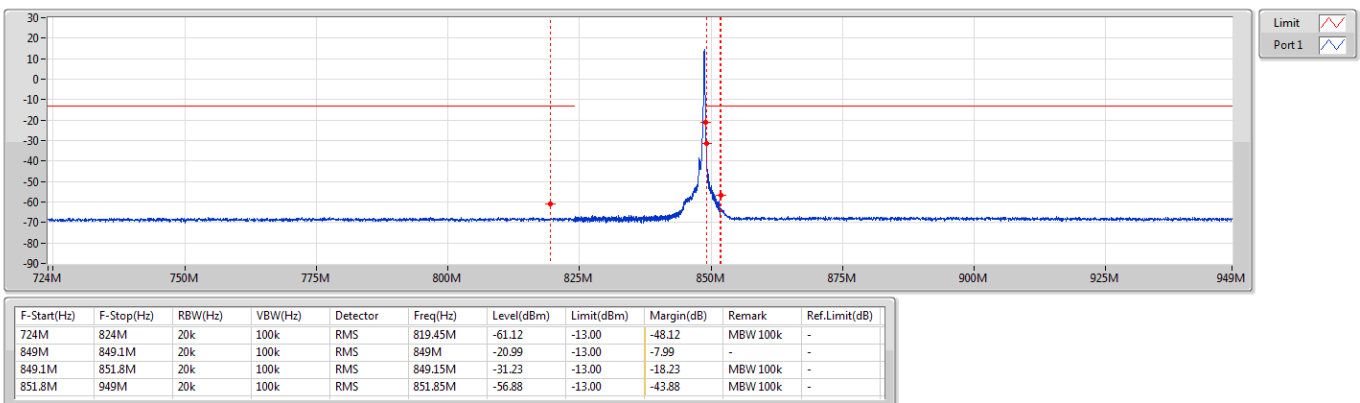
Band 26_LTE_1.4MHz_Nss1,16QAM_1TX
848.3MHz_16QAM_RB 6,#RB 0

CSE-TX-Sum



Band 26_LTE_1.4MHz_Nss1,16QAM_1TX
848.3MHz_16QAM_RB 1,#RB R

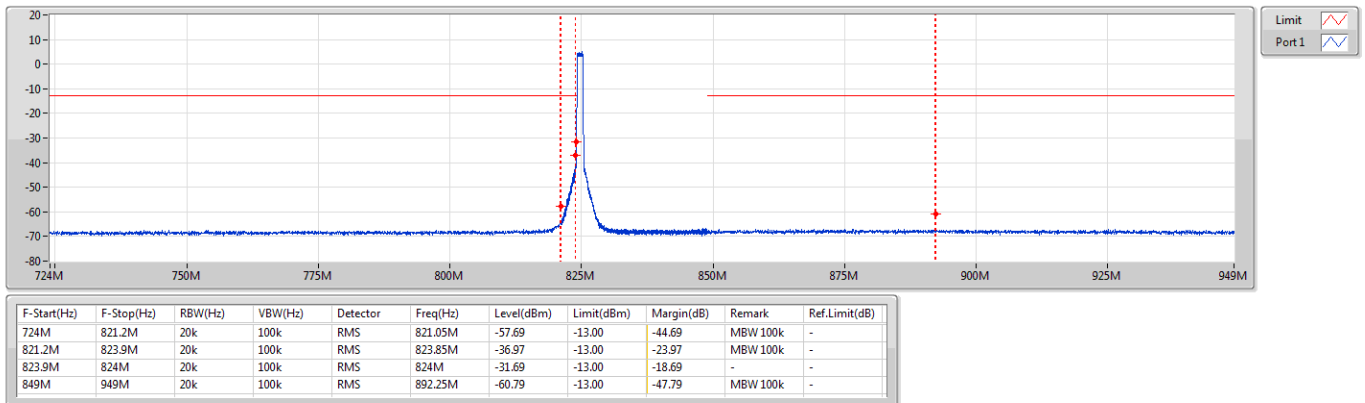
CSE-TX-Sum





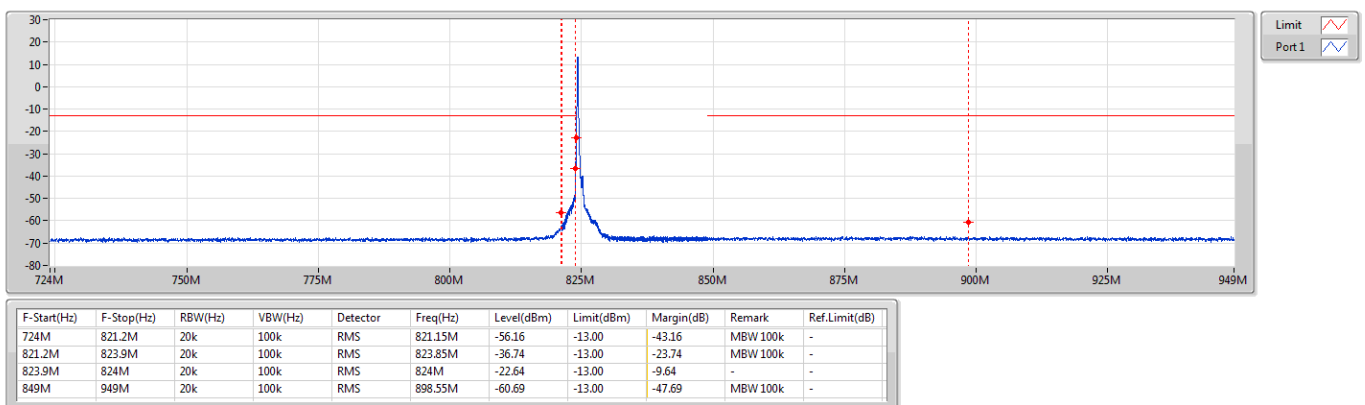
Band 26_LTE_1.4MHz_Nss1,64QAM_1TX
824.7MHz_64QAM_RB 6,#RB 0

CSE-TX-Sum



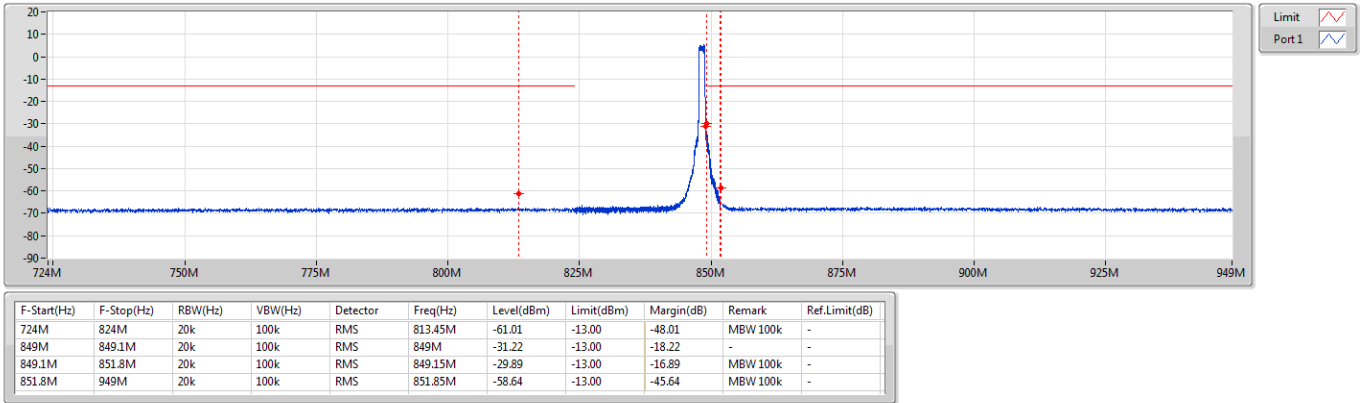
Band 26_LTE_1.4MHz_Nss1,64QAM_1TX
824.7MHz_64QAM_RB 1,#RB L

CSE-TX-Sum



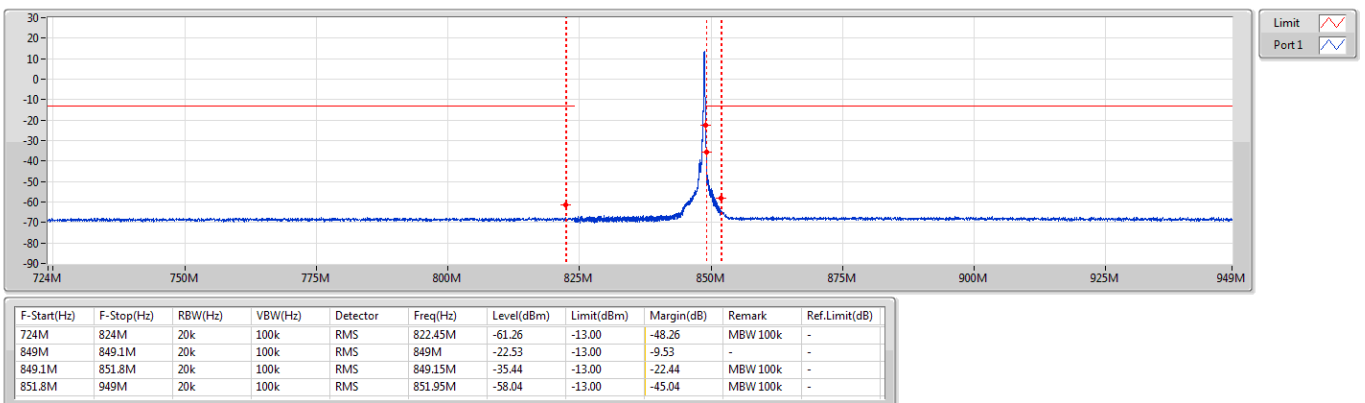
Band 26_LTE_1.4MHz_Nss1,64QAM_1TX
848.3MHz_64QAM_RB 6,#RB 0

CSE-TX-Sum



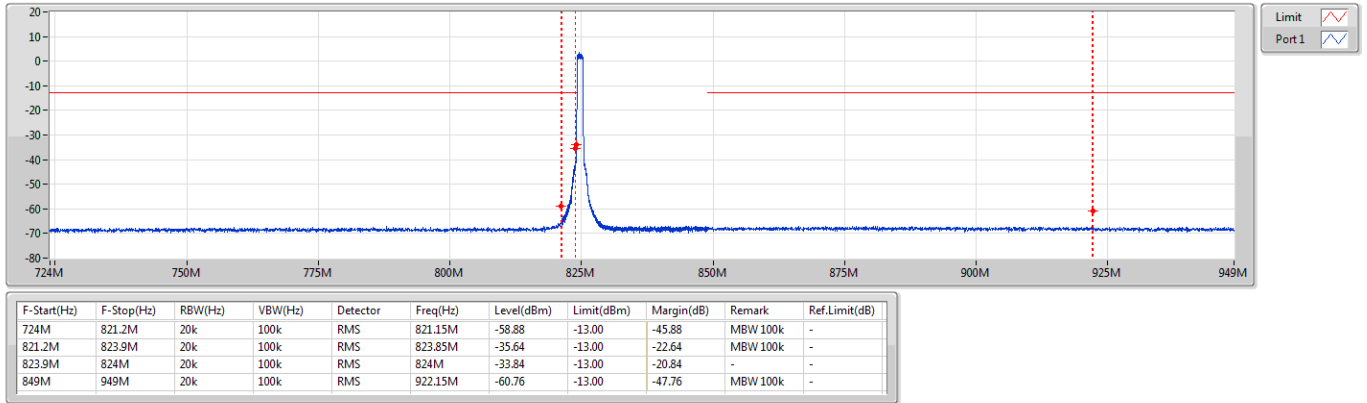
Band 26_LTE_1.4MHz_Nss1,64QAM_1TX
848.3MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



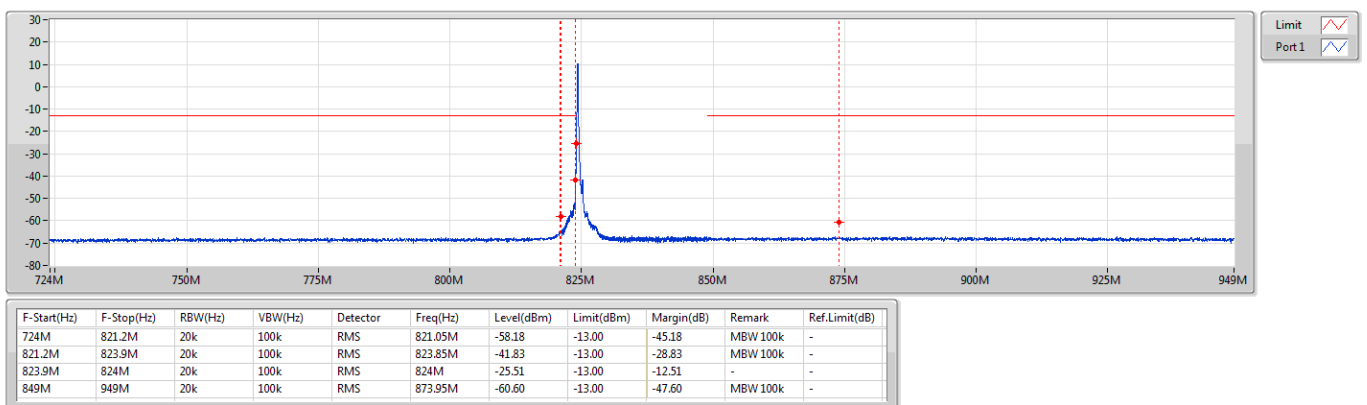
Band 26_LTE_1.4MHz_Nss1,256QAM_1TX
824.7MHz_256QAM_RB 6,#RB 0

CSE-TX-Sum



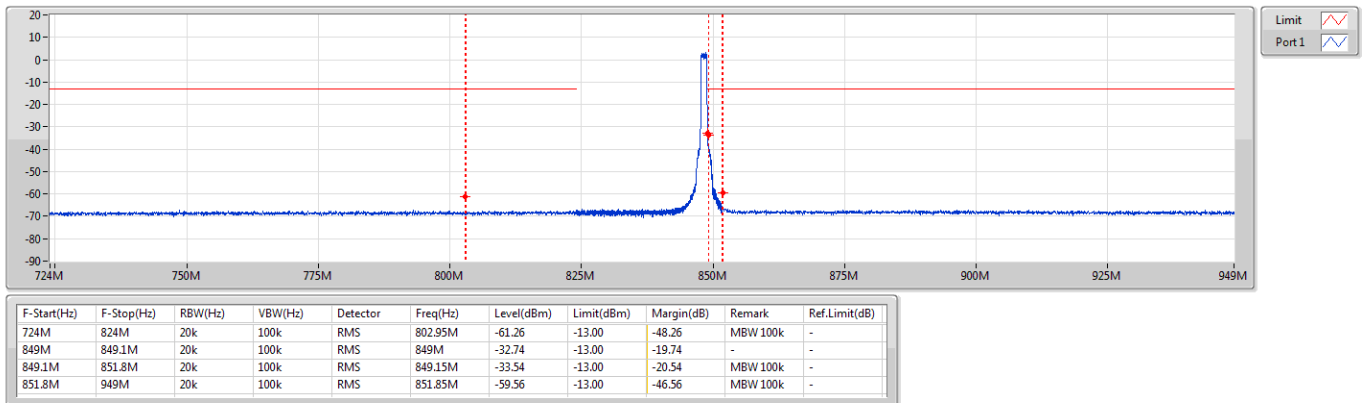
Band 26_LTE_1.4MHz_Nss1,256QAM_1TX
824.7MHz_256QAM_RB 1,#RB L

CSE-TX-Sum



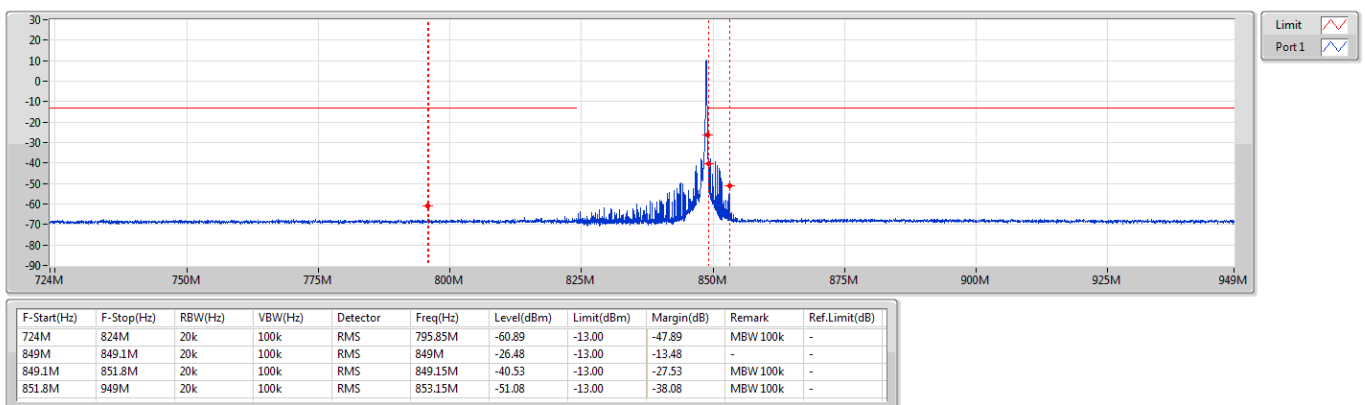
Band 26_LTE_1.4MHz_Nss1,256QAM_1TX
848.3MHz_256QAM_RB 6,#RB 0

CSE-TX-Sum



Band 26_LTE_1.4MHz_Nss1,256QAM_1TX
848.3MHz_256QAM_RB 1,#RB R

CSE-TX-Sum



Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 26	-	-	-	-	-
LTE_15MHz_Nss1,QPSK_1TX	14.269M	13.391M	13M4G7D	14.269M	13.391M
LTE_15MHz_Nss1,16QAM_1TX	14.269M	13.38M	13M4W7D	14.269M	13.38M
LTE_15MHz_Nss1,64QAM_1TX	14.325M	13.376M	13M4W7D	14.325M	13.376M
LTE_15MHz_Nss1,256QAM_1TX	14.25M	13.411M	13M5W7D	14.25M	13.411M
LTE_10MHz_Nss1,QPSK_1TX	9.5M	8.942M	8M94G7D	9.5M	8.942M
LTE_10MHz_Nss1,16QAM_1TX	9.5M	8.91M	8M91W7D	9.5M	8.91M
LTE_10MHz_Nss1,64QAM_1TX	9.575M	8.915M	8M92W7D	9.575M	8.915M
LTE_10MHz_Nss1,256QAM_1TX	9.513M	8.93M	8M93W7D	9.513M	8.93M
LTE_5MHz_Nss1,QPSK_1TX	4.819M	4.473M	4M47G7D	4.819M	4.473M
LTE_5MHz_Nss1,16QAM_1TX	4.781M	4.468M	4M47W7D	4.781M	4.468M
LTE_5MHz_Nss1,64QAM_1TX	4.819M	4.478M	4M48W7D	4.819M	4.478M
LTE_5MHz_Nss1,256QAM_1TX	4.794M	4.472M	4M47W7D	4.794M	4.472M
LTE_3MHz_Nss1,QPSK_1TX	2.884M	2.676M	2M68G7D	2.884M	2.676M
LTE_3MHz_Nss1,16QAM_1TX	2.921M	2.68M	2M68W7D	2.921M	2.68M
LTE_3MHz_Nss1,64QAM_1TX	2.876M	2.682M	2M68W7D	2.876M	2.682M
LTE_3MHz_Nss1,256QAM_1TX	2.835M	2.679M	2M68W7D	2.835M	2.679M
LTE_1.4MHz_Nss1,QPSK_1TX	1.246M	1.086M	1M09G7D	1.246M	1.086M
LTE_1.4MHz_Nss1,16QAM_1TX	1.26M	1.091M	1M09W7D	1.26M	1.091M
LTE_1.4MHz_Nss1,64QAM_1TX	1.264M	1.085M	1M09W7D	1.264M	1.085M
LTE_1.4MHz_Nss1,256QAM_1TX	1.257M	1.081M	1M08W7D	1.257M	1.081M

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

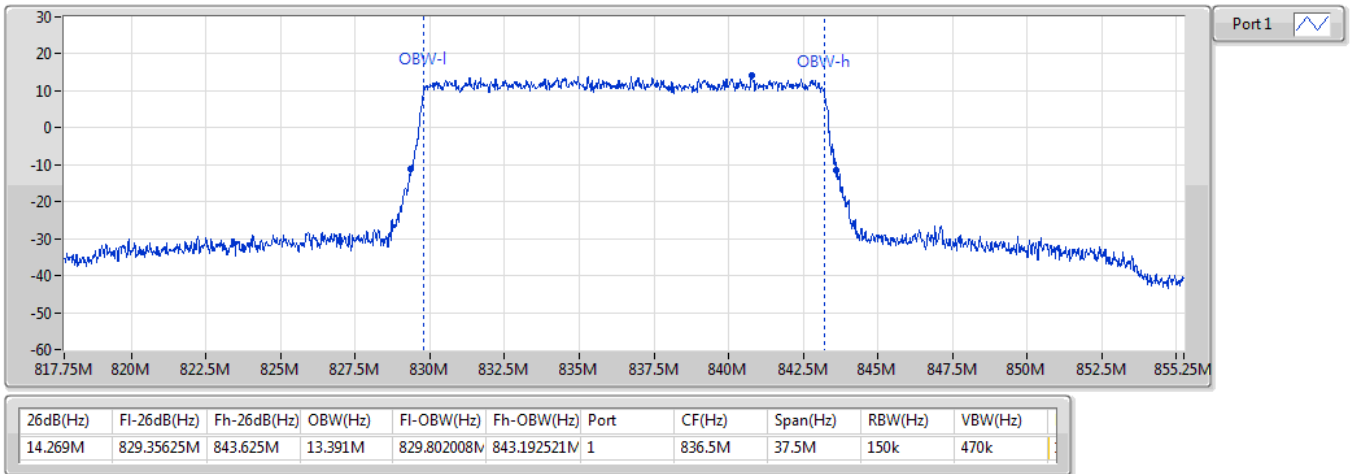
Result

Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Limit (Hz)
Band 26_LTE_15MHz_Nss1_1TX	-	-	-	-
836.5MHz_QPSK_RB 75,#RB 0	Pass	14.269M	13.391M	Inf
836.5MHz_16QAM_RB 75,#RB 0	Pass	14.269M	13.38M	Inf
836.5MHz_64QAM_RB 75,#RB 0	Pass	14.325M	13.376M	Inf
836.5MHz_256QAM_RB 75,#RB 0	Pass	14.25M	13.411M	Inf
Band 26_LTE_10MHz_Nss1_1TX	-	-	-	-
836.5MHz_QPSK_RB 50,#RB 0	Pass	9.5M	8.942M	Inf
836.5MHz_16QAM_RB 50,#RB 0	Pass	9.5M	8.91M	Inf
836.5MHz_64QAM_RB 50,#RB 0	Pass	9.575M	8.915M	Inf
836.5MHz_256QAM_RB 50,#RB 0	Pass	9.513M	8.93M	Inf
Band 26_LTE_5MHz_Nss1_1TX	-	-	-	-
836.5MHz_QPSK_RB 25,#RB 0	Pass	4.819M	4.473M	Inf
836.5MHz_16QAM_RB 25,#RB 0	Pass	4.781M	4.468M	Inf
836.5MHz_64QAM_RB 25,#RB 0	Pass	4.819M	4.478M	Inf
836.5MHz_256QAM_RB 25,#RB 0	Pass	4.794M	4.472M	Inf
Band 26_LTE_3MHz_Nss1_1TX	-	-	-	-
836.5MHz_QPSK_RB 15,#RB 0	Pass	2.884M	2.676M	Inf
836.5MHz_16QAM_RB 15,#RB 0	Pass	2.921M	2.68M	Inf
836.5MHz_64QAM_RB 15,#RB 0	Pass	2.876M	2.682M	Inf
836.5MHz_256QAM_RB 15,#RB 0	Pass	2.835M	2.679M	Inf
Band 26_LTE_1.4MHz_Nss1_1TX	-	-	-	-
836.5MHz_QPSK_RB 6,#RB 0	Pass	1.246M	1.086M	Inf
836.5MHz_16QAM_RB 6,#RB 0	Pass	1.26M	1.091M	Inf
836.5MHz_64QAM_RB 6,#RB 0	Pass	1.264M	1.085M	Inf
836.5MHz_256QAM_RB 6,#RB 0	Pass	1.257M	1.081M	Inf

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

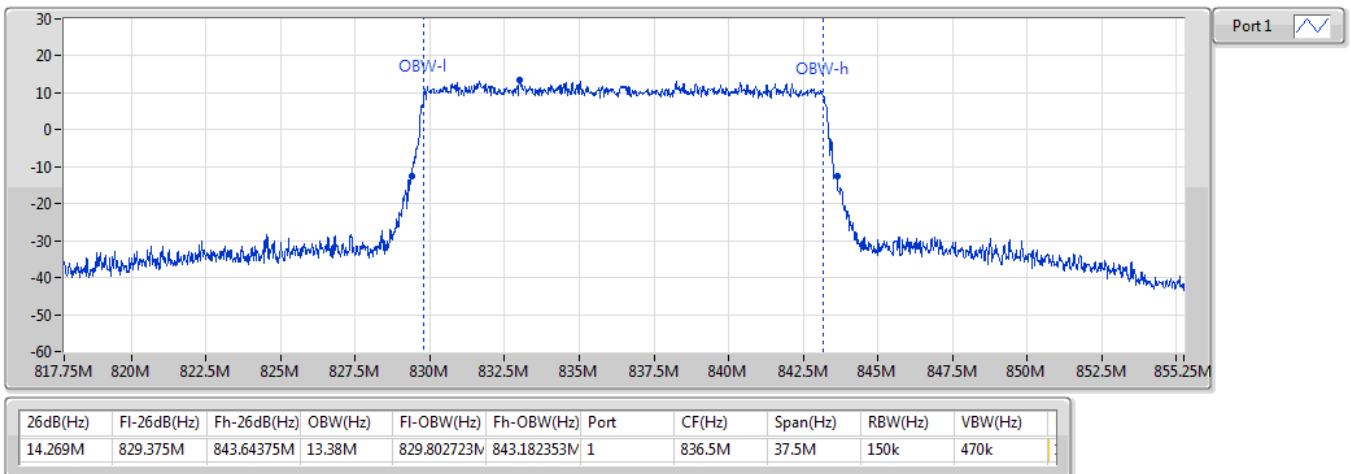
Band 26_LTE_15MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 75,#RB 0

EBW



Band 26_LTE_15MHz_Nss1,16QAM_1TX
836.5MHz_16QAM_RB 75,#RB 0

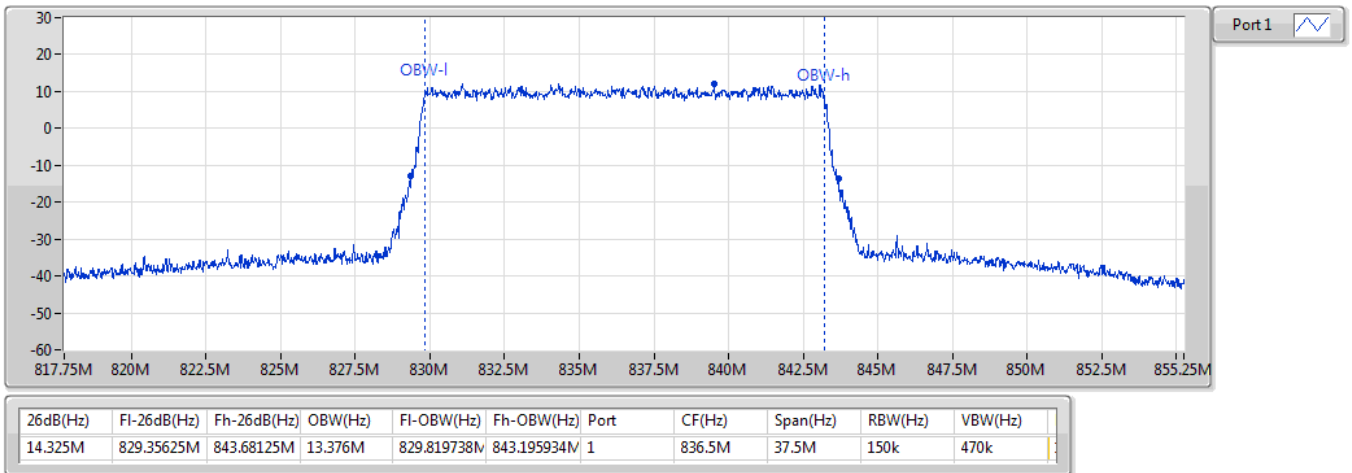
EBW



Band 26_LTE_15MHz_Nss1,64QAM_1TX

EBW

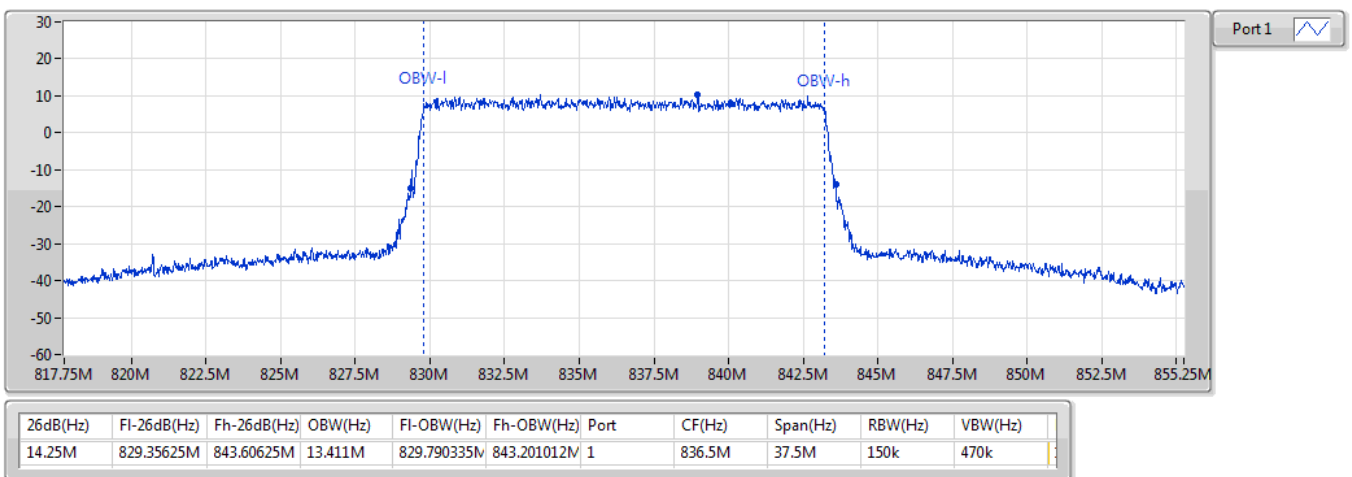
836.5MHz_64QAM_RB 75,#RB 0



Band 26_LTE_15MHz_Nss1,256QAM_1TX

EBW

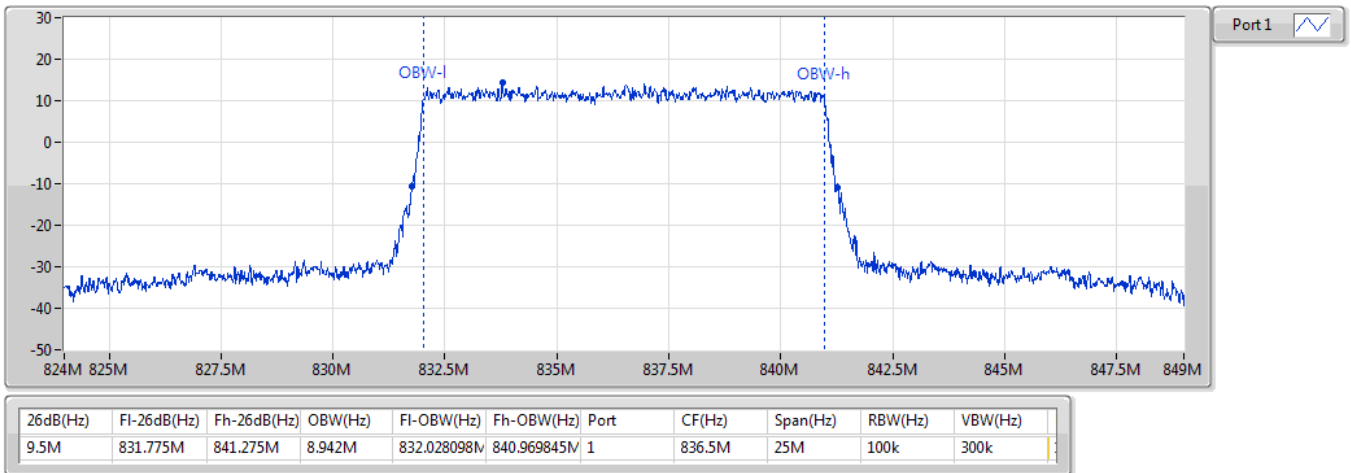
836.5MHz_256QAM_RB 75,#RB 0



Band 26_LTE_10MHz_Nss1,QPSK_1TX

EBW

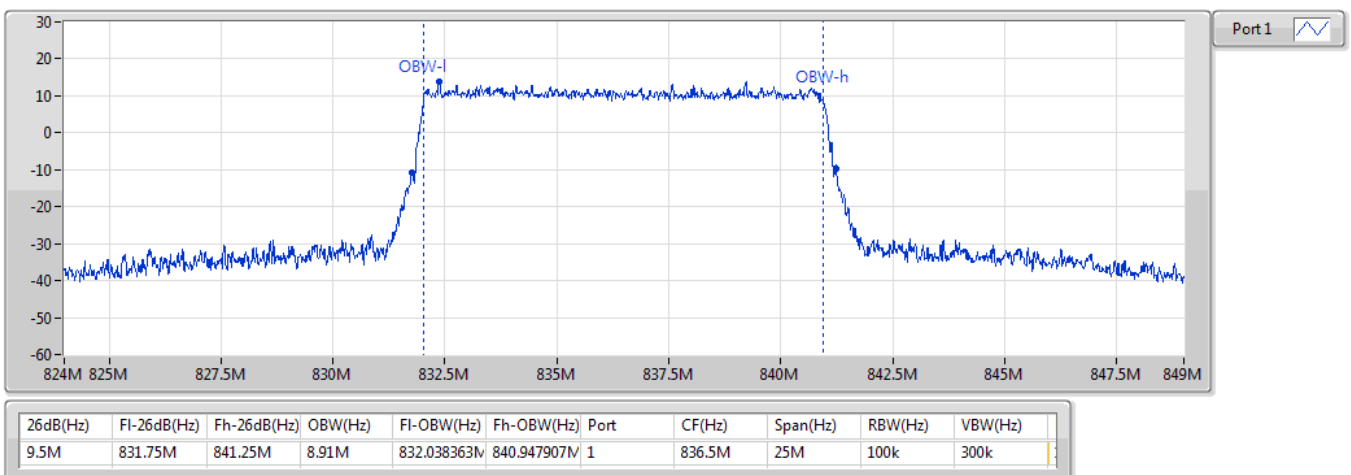
836.5MHz_QPSK_RB 50,#RB 0



Band 26_LTE_10MHz_Nss1,16QAM_1TX

EBW

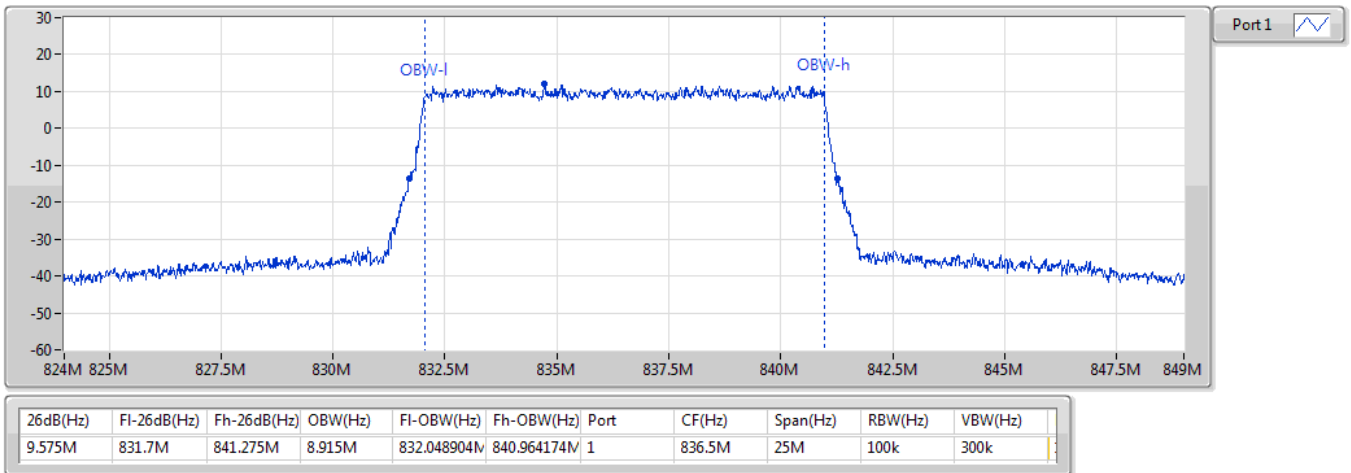
836.5MHz_16QAM_RB 50,#RB 0



Band 26_LTE_10MHz_Nss1,64QAM_1TX

EBW

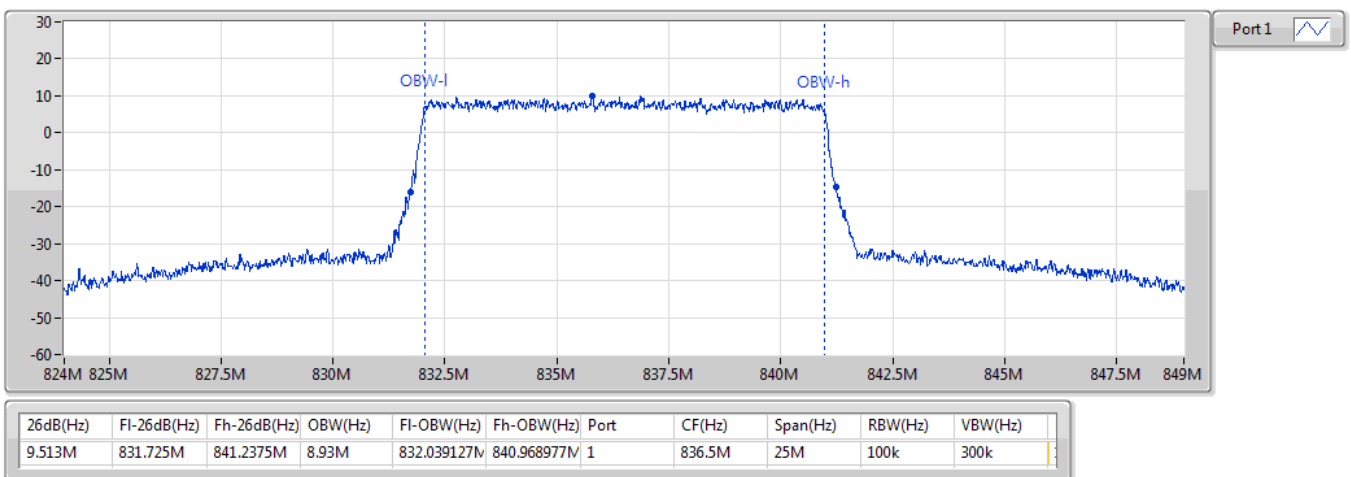
836.5MHz_64QAM_RB 50,#RB 0



Band 26_LTE_10MHz_Nss1,256QAM_1TX

EBW

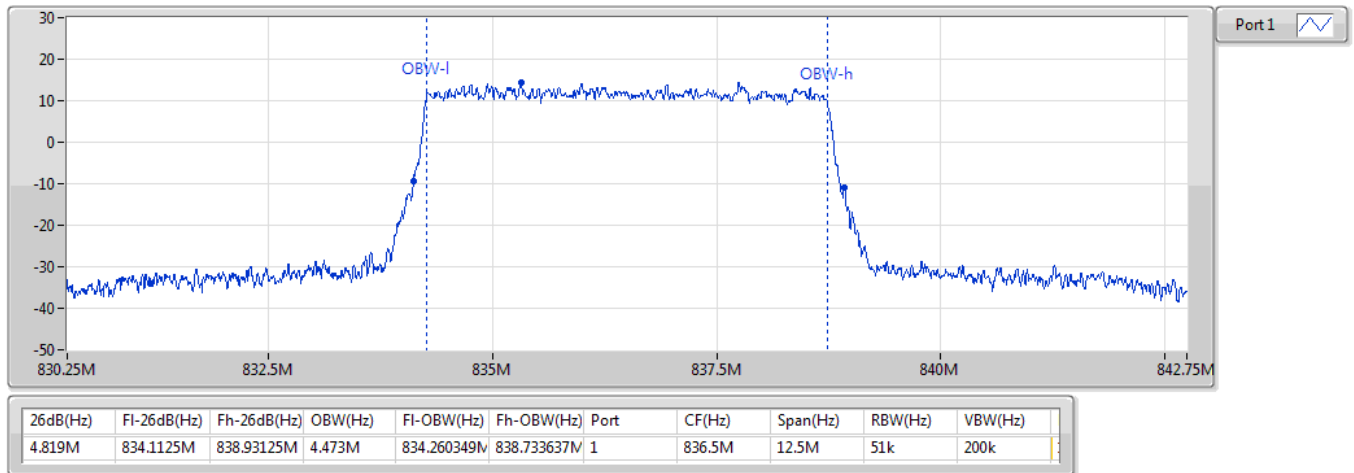
836.5MHz_256QAM_RB 50,#RB 0



Band 26_LTE_5MHz_Nss1,QPSK_1TX

EBW

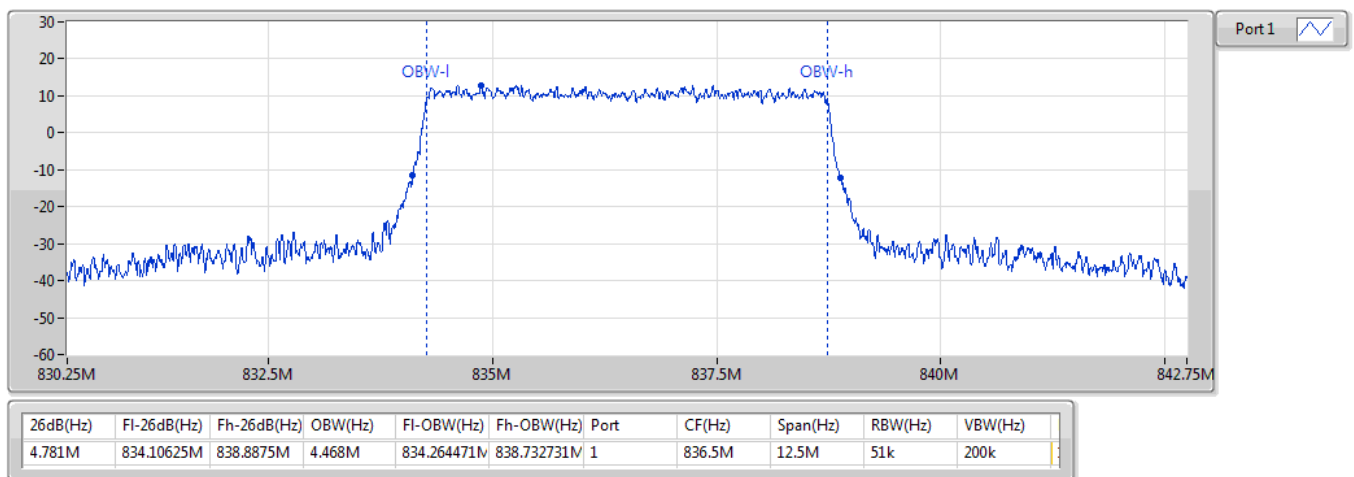
836.5MHz_QPSK_RB 25,#RB 0



Band 26_LTE_5MHz_Nss1,16QAM_1TX

EBW

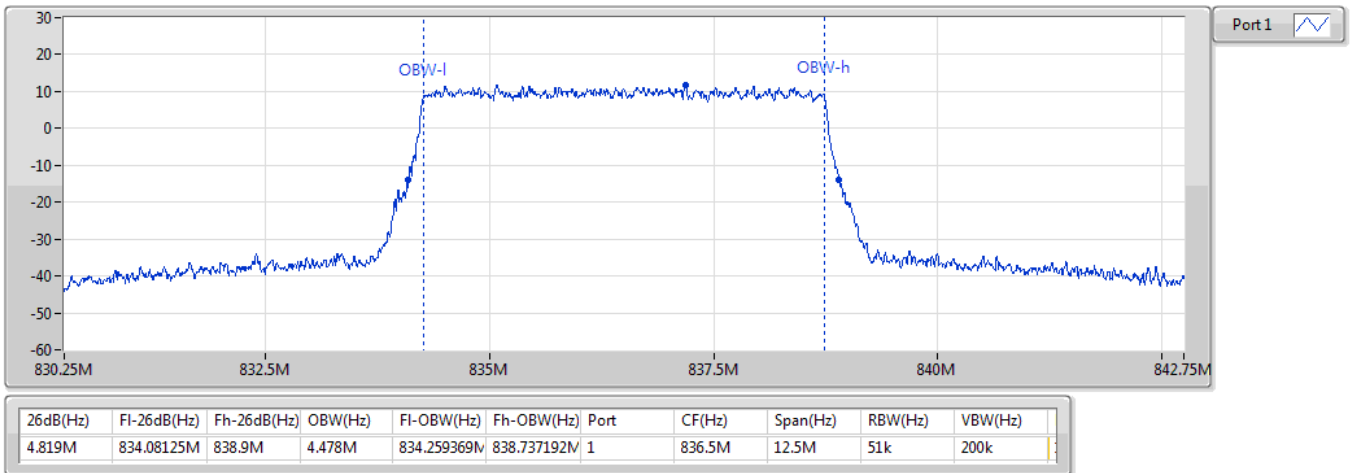
836.5MHz_16QAM_RB 25,#RB 0



Band 26_LTE_5MHz_Nss1,64QAM_1TX

EBW

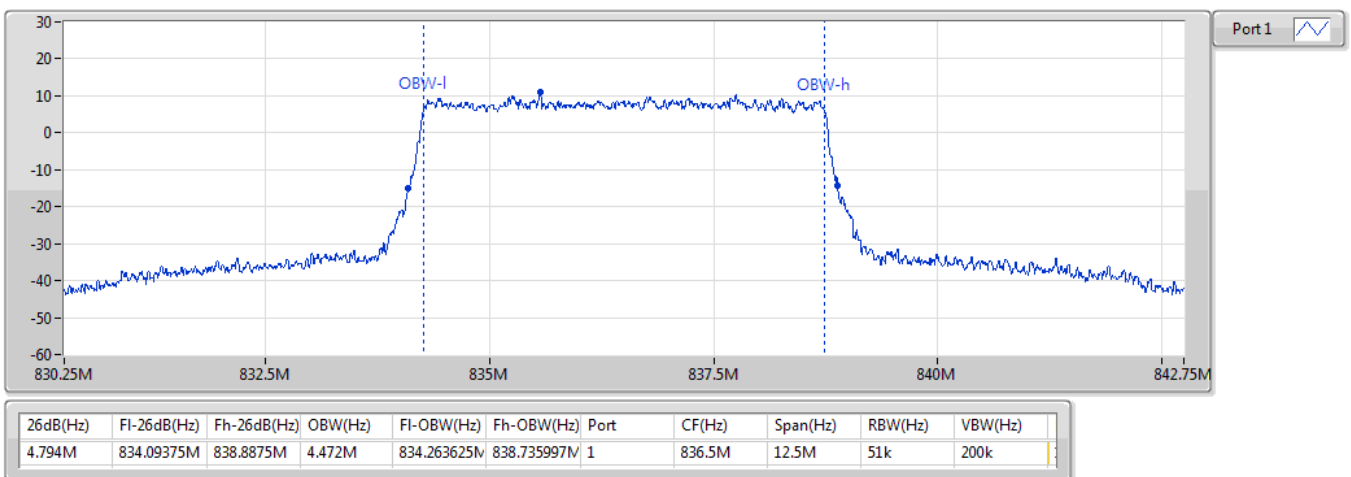
836.5MHz_64QAM_RB 25,#RB 0



Band 26_LTE_5MHz_Nss1,256QAM_1TX

EBW

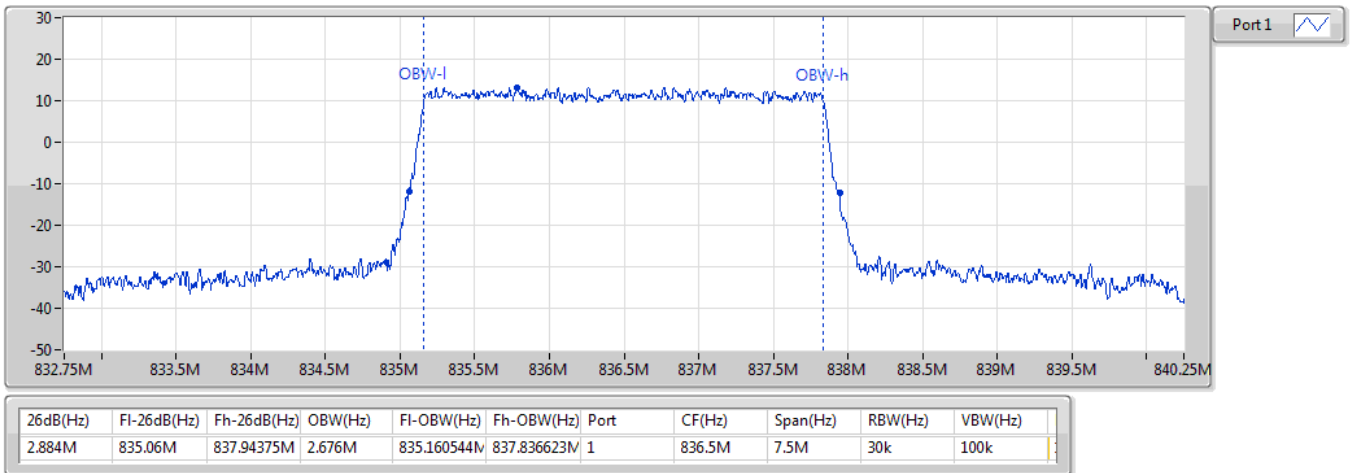
836.5MHz_256QAM_RB 25,#RB 0



Band 26_LTE_3MHz_Nss1,QPSK_1TX

EBW

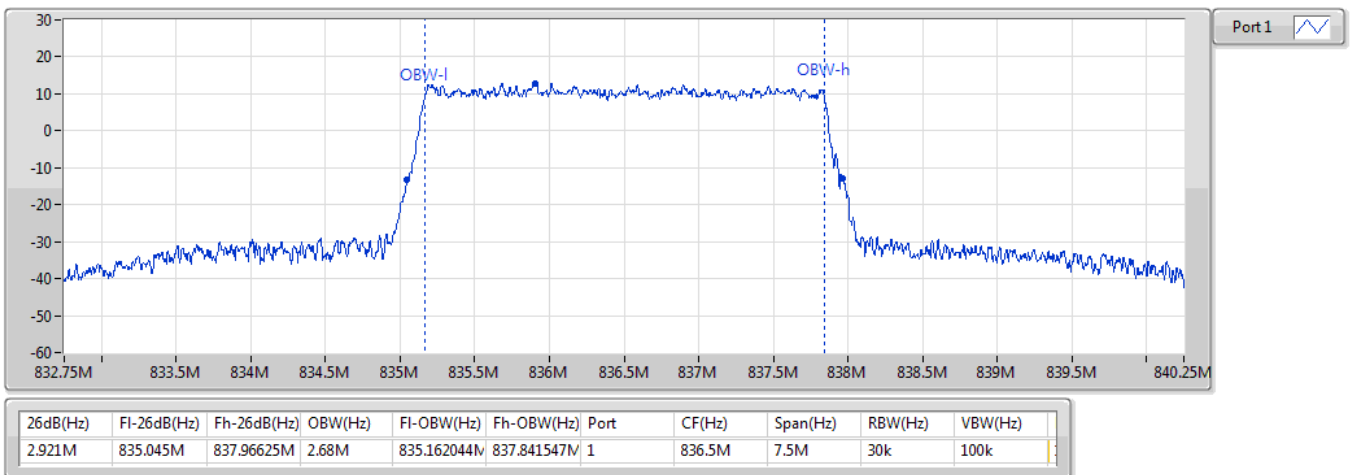
836.5MHz_QPSK_RB 15,#RB 0



Band 26_LTE_3MHz_Nss1,16QAM_1TX

EBW

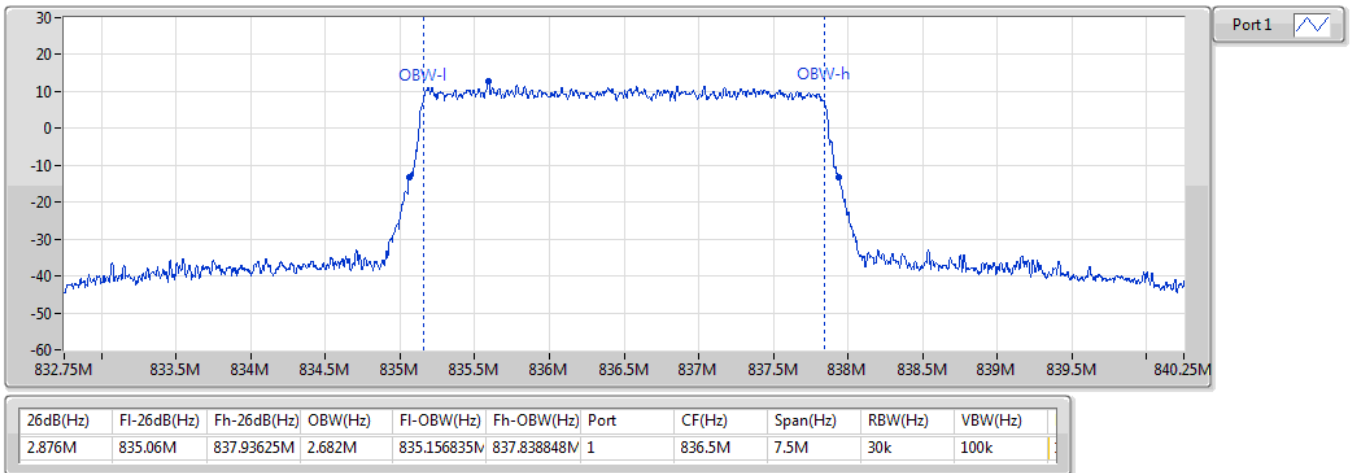
836.5MHz_16QAM_RB 15,#RB 0



Band 26_LTE_3MHz_Nss1,64QAM_1TX

EBW

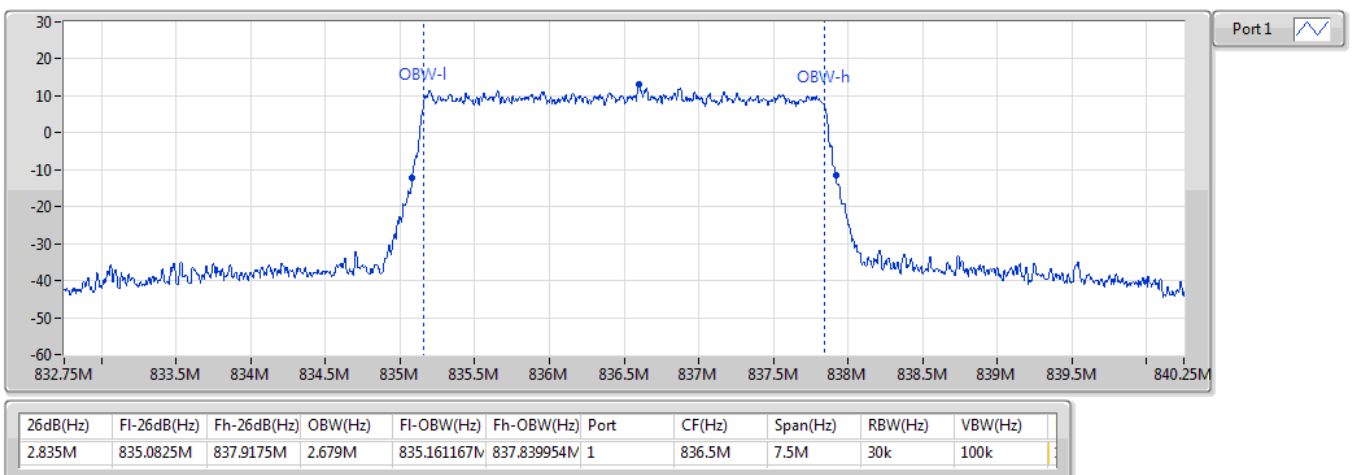
836.5MHz_64QAM_RB 15,#RB 0



Band 26_LTE_3MHz_Nss1,256QAM_1TX

EBW

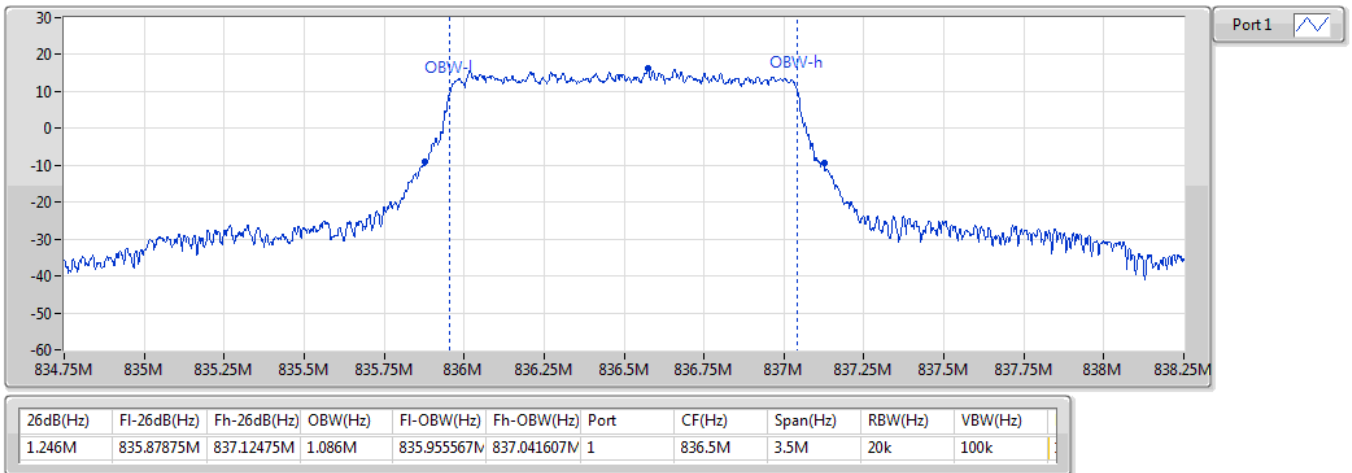
836.5MHz_256QAM_RB 15,#RB 0



Band 26_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

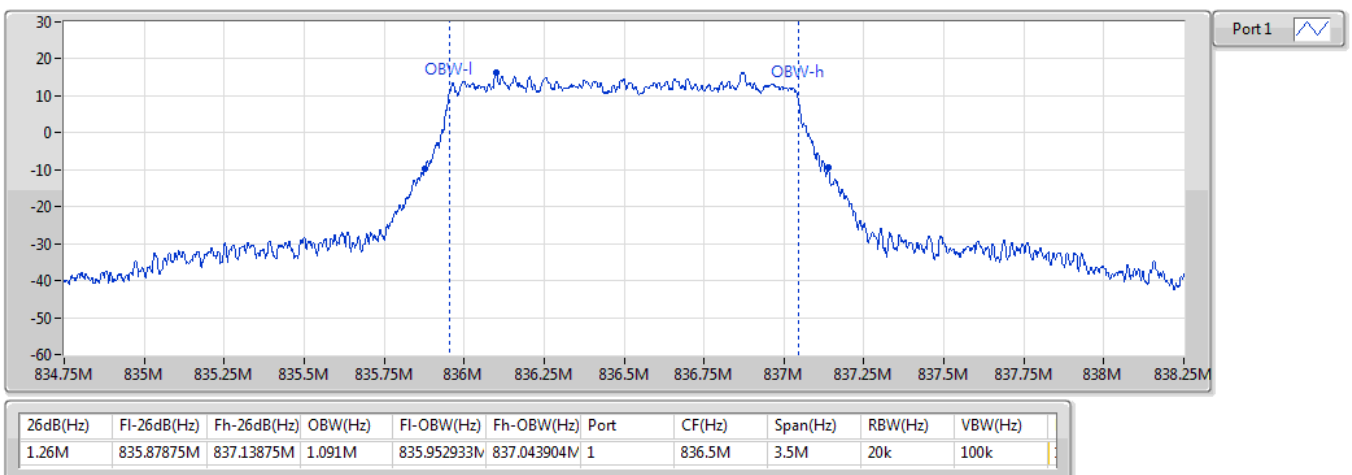
836.5MHz_QPSK_RB 6,#RB 0



Band 26_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

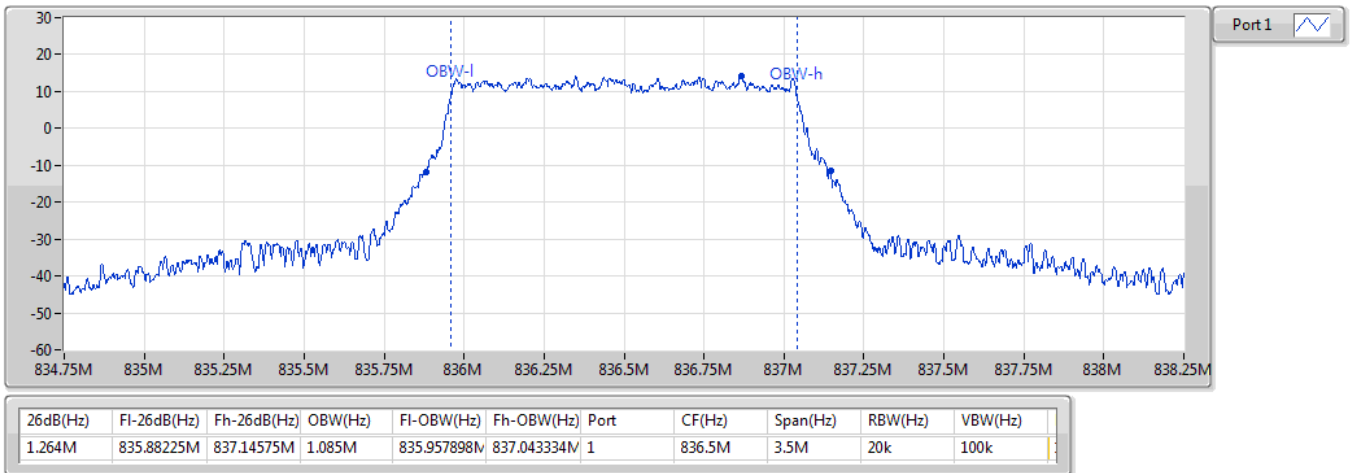
836.5MHz_16QAM_RB 6,#RB 0



Band 26_LTE_1.4MHz_Nss1,64QAM_1TX

EBW

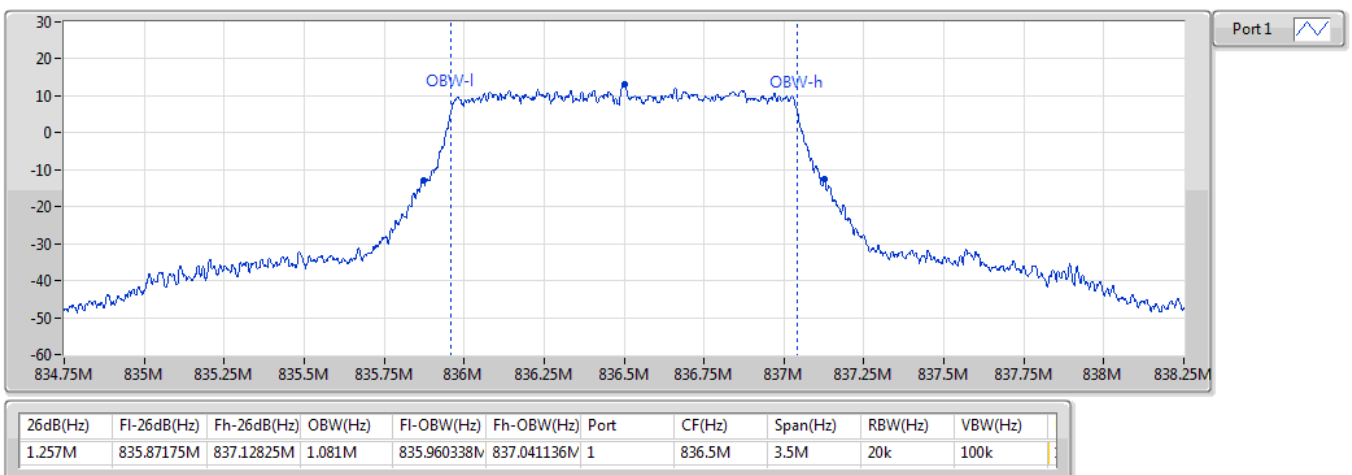
836.5MHz_64QAM_RB 6,#RB 0



Band 26_LTE_1.4MHz_Nss1,256QAM_1TX

EBW

836.5MHz_256QAM_RB 6,#RB 0



**Summary**

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 26	-	-	-	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	836.5	13.00	5.50	1
LTE_15MHz_Nss1,16QAM_1TX	Pass	836.5	13.00	6.17	1
LTE_15MHz_Nss1,64QAM_1TX	Pass	836.5	13.00	6.45	1
LTE_15MHz_Nss1,256QAM_1TX	Pass	836.5	13.00	6.37	1

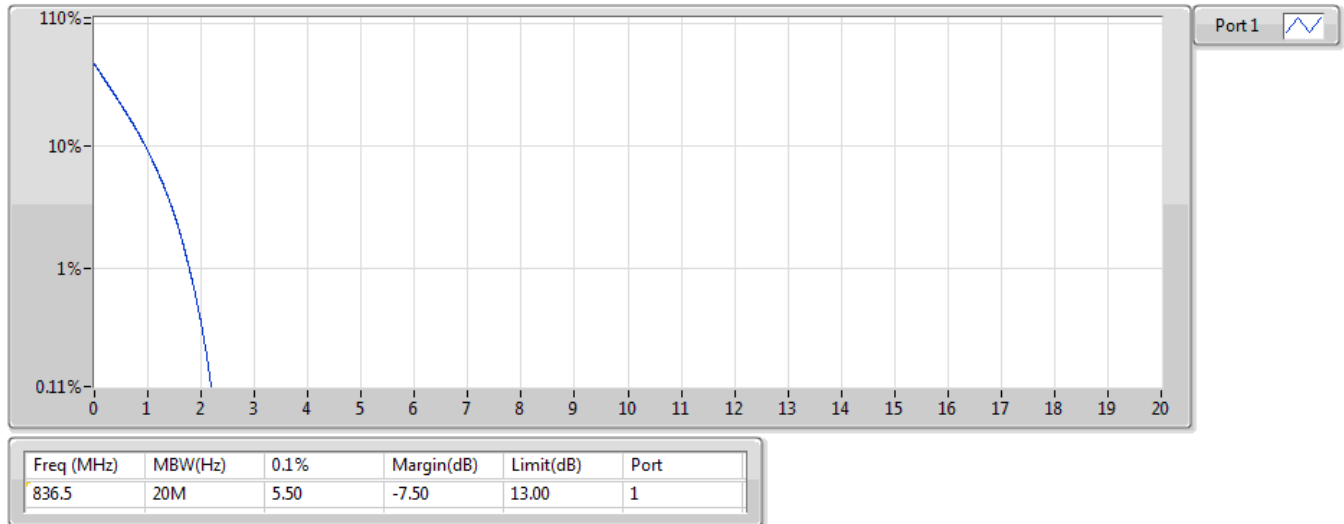
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 26_LTE_15MHz_Nss1_1TX	-	-	-	-	-
836.5MHz_QPSK_RB 75,#RB 0	Pass	836.5	13.00	5.50	1
836.5MHz_16QAM_RB 75,#RB 0	Pass	836.5	13.00	6.17	1
836.5MHz_64QAM_RB 75,#RB 0	Pass	836.5	13.00	6.45	1
836.5MHz_256QAM_RB 75,#RB 0	Pass	836.5	13.00	6.37	1

Band 26_LTE_15MHz_Nss1,QPSK_1TX

PAPR

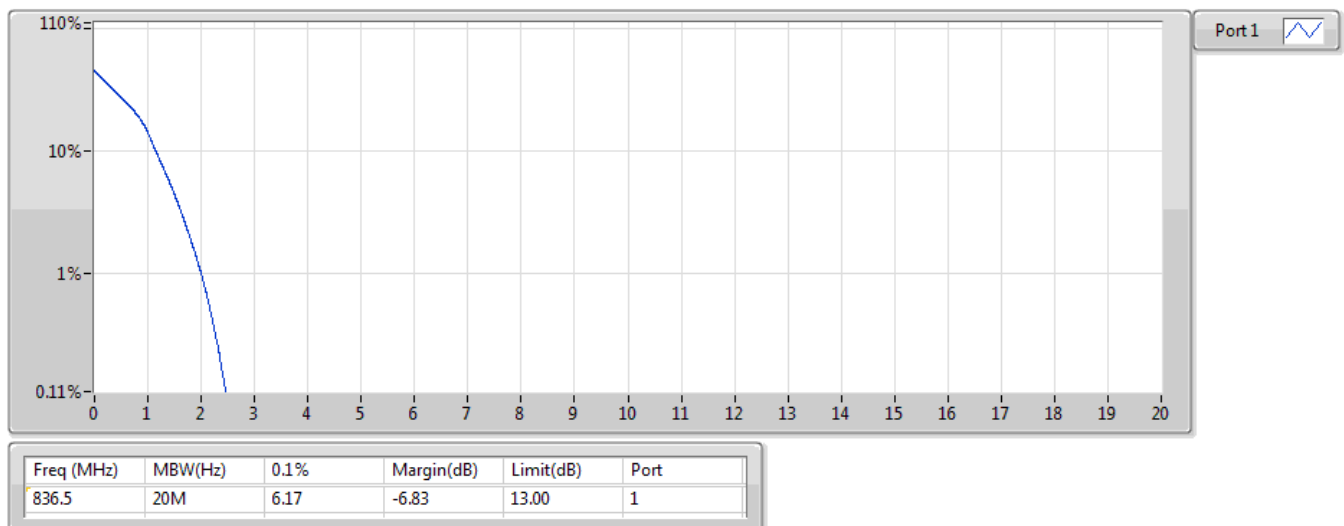
836.5MHz_QPSK_RB 75,#RB 0



Band 26_LTE_15MHz_Nss1,16QAM_1TX

PAPR

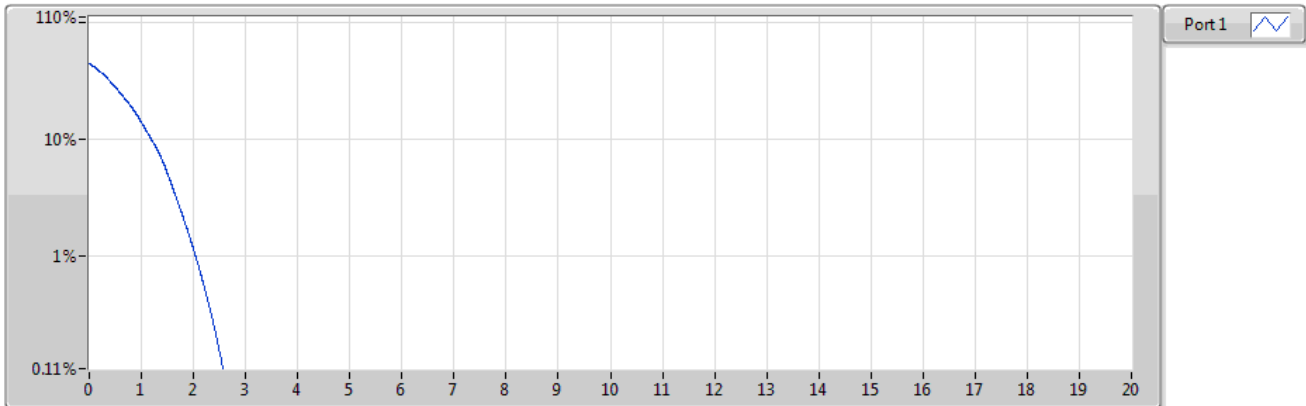
836.5MHz_16QAM_RB 75,#RB 0



Band 26_LTE_15MHz_Nss1,64QAM_1TX

PAPR

836.5MHz_64QAM_RB 75,#RB 0

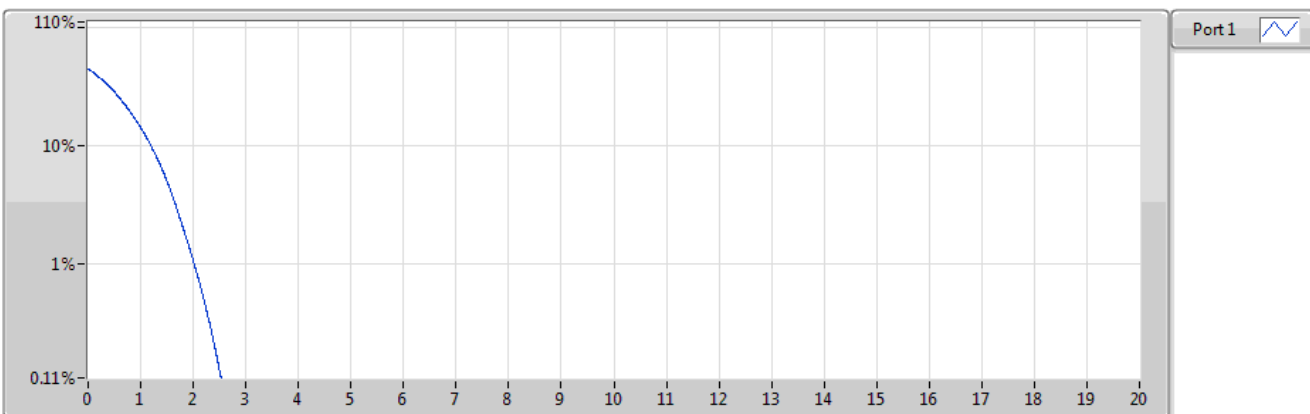


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	6.45	-6.55	13.00	1

Band 26_LTE_15MHz_Nss1,256QAM_1TX

PAPR

836.5MHz_256QAM_RB 75,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	6.37	-6.63	13.00	1



Ref. Freq:	836.5MHz	
Test Conditions	LTE Band 26(QPSK) / Middle channel	
Temperature (°C)	Deviation (ppm)	Limit: 2.5 ppm
		Result
T20°CVmax	0.02	PASS
T20°CVmin	0.02	
T70°CVnom	0.05	
T60°CVnom	0.05	
T50°CVnom	0.05	
T40°CVnom	0.04	
T30°CVnom	0.03	
T20°CVnom	0.02	
T10°CVnom	0.02	
T0°CVnom	0.02	
T-10°CVnom	0.03	
T-20°CVnom	0.04	
T-30°CVnom	0.05	