

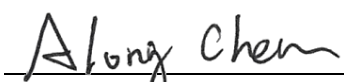
FCC Test Report

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 22 Subpart H
Received Date : Jun. 13, 2022
Tested Date : Jun. 28 ~ Aug. 19, 2022

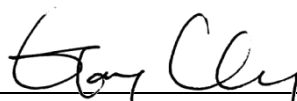
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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APPENDIX A. TEST RESULTS FOR EFFECTIVE RADIATED POWER

APPENDIX B 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 TEST RESULTS FOR OCCUPIED AND 26 dB BANDWIDTH

APPENDIX E TEST RESULTS FOR PEAK TO AVERAGE POWER RATIO

APPENDIX F TEST RESULTS FOR FREQUENCY STABILITY

Release Record

Report No.	Version	Description	Issued Date
FG261301P22-1	Rev. 01	Initial issue	Sep. 23, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 22.913(a)(5)	Effective Radiated Power	Power[dBm] : 18.91	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 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	XS5G03-GB0	5G DATA CARD	-
	XS5G04-GB0		Disable EN-DC by software.
✦ The above models, model XS5G03-GB0 was the worst case and was selected 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	5G NR n5: 824 MHz ~ 849 MHz
Uplink Modulation	QPSK , 16QAM , 64AQM , 256QAM for CP-OFDM $\pi/2$ -BPSK, QPSK, 16QAM, 64QAM and 256QAM for DFT-s-OFDM
Downlink Modulation	QPSK , 16QAM , 64AQM , 256QAM for CP-OFDM
EN DC	DC 30A_n5A, DC 66A_n5A

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	Anjie	AELQ2S-B066L	Dipole	UFL	-1.2

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

Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
20 MHz	$\pi/2$ -BPSK	0.168	17M9G7D
20 MHz	QPSK	0.166	18M9G7D
20 MHz	16QAM	0.139	18M9W7D
20 MHz	64QAM	0.107	18M9W7D
20 MHz	256QAM	0.066	18M9W7D
15 MHz	$\pi/2$ -BPSK	0.165	13M5G7D
15 MHz	QPSK	0.164	14M1G7D
15 MHz	16QAM	0.136	14M1W7D
15 MHz	64QAM	0.104	14M1W7D
15 MHz	256QAM	0.062	14M1W7D
10 MHz	$\pi/2$ -BPSK	0.168	8M93G7D
10 MHz	QPSK	0.164	9M27G7D
10 MHz	16QAM	0.135	9M30W7D
10 MHz	64QAM	0.103	9M27W7D
10 MHz	256QAM	0.063	9M26W7D
5 MHz	$\pi/2$ -BPSK	0.168	4M49G7D
5 MHz	QPSK	0.167	4M47G7D
5 MHz	16QAM	0.134	4M47W7D
5 MHz	64QAM	0.102	4M46W7D
5 MHz	256QAM	0.062	4M47W7D

1.1.7 Operating Channel List

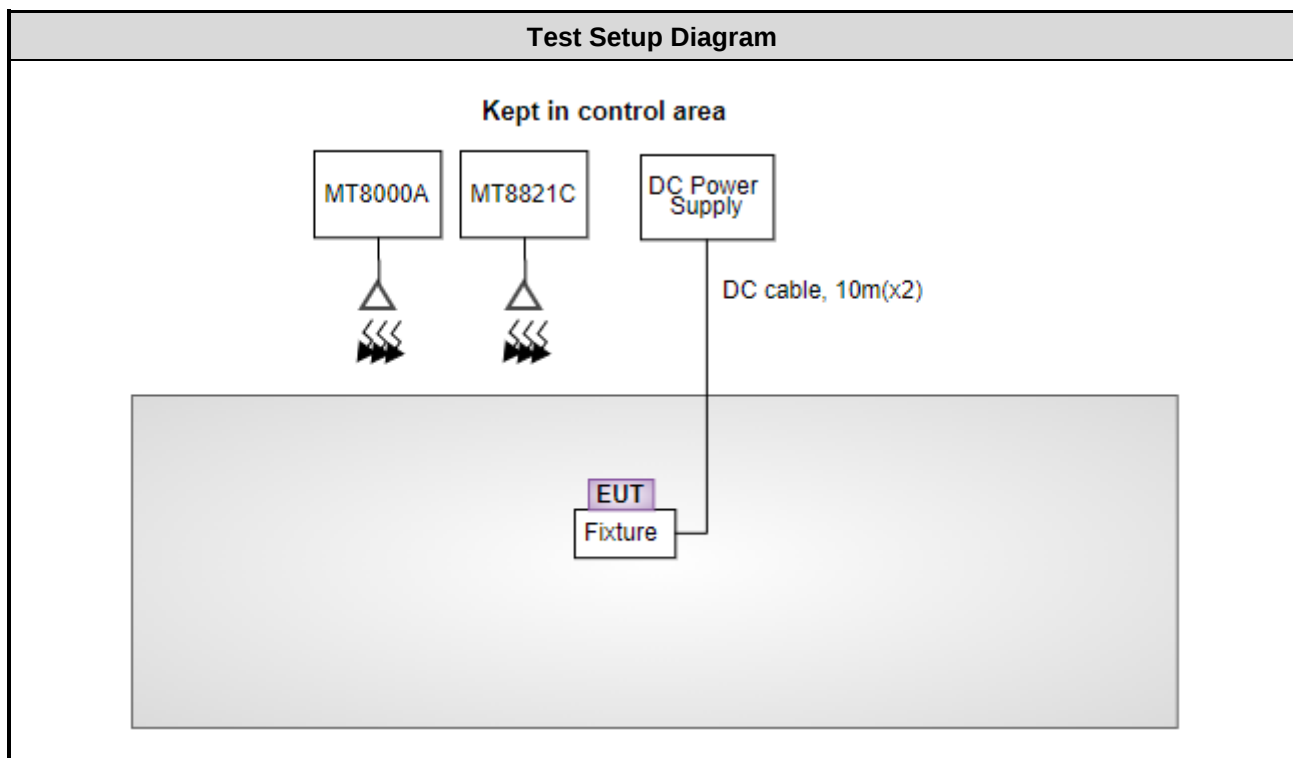
5G NR n5		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
20	166800	834.0
20	167300	836.5
20	167800	839.0
15	166300	831.5
15	167300	836.5
15	168300	841.5
10	165800	829.0
10	167300	836.5
10	168800	844.0
5	165300	826.5
5	167300	836.5
5	169300	846.5

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	---	Provided by applicant.
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. 12 ~ Aug. 19, 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-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-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
Radio Communication Test Station	Anritsu	MT8000A	6262148276	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-4G	V6.1.5	NA	NA
Radio Communication Analyzer	Anritsu	MT8821C	6262149999	Sep. 16, 2021	Sep. 15, 2022
Radio Communication Test Station	Anritsu	MT8000A	6262148276	Sep. 16, 2021	Sep. 15, 2022
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	24-26°C / 65-68%	Brad Wu
RF Conducted	TH01-WS	24-26°C / 64-68%	Aska Huang

- 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 333, Taiwan, R.O.C.

2.3 The Worst Test Modes and Channel Details

Test items	Band	Bandwidth(MHz)				Modulation					RB#			Test Channel		
		5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n5	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
peak-to-Average Ratio	n5				v	v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n5	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band edge	n5	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n5	v	v	v	v	v					v			v	v	v
Frequency Stability	n5				v	v										
E.R.P	n5	v	v	v	v	v	v	v	v	v	Max. power					
Radiated Spurious Emission	n5	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. DFT-s OFDM and CP OFDM had been covered during the pretest. The worst adapter is DFT-s OFDM and only its data was record in this test report. 6. 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 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:

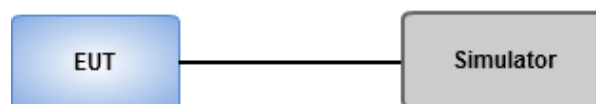
1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT.

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)

Ambient Condition	24~26°C / 63~65%	Tested By	Aska Huang
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Refer to Appendix A.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

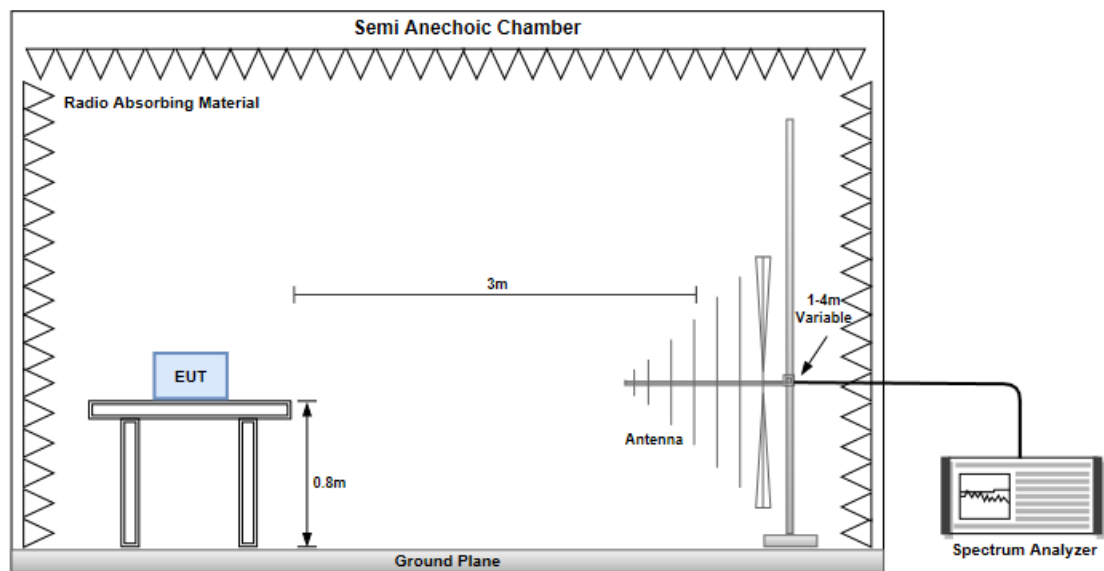
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

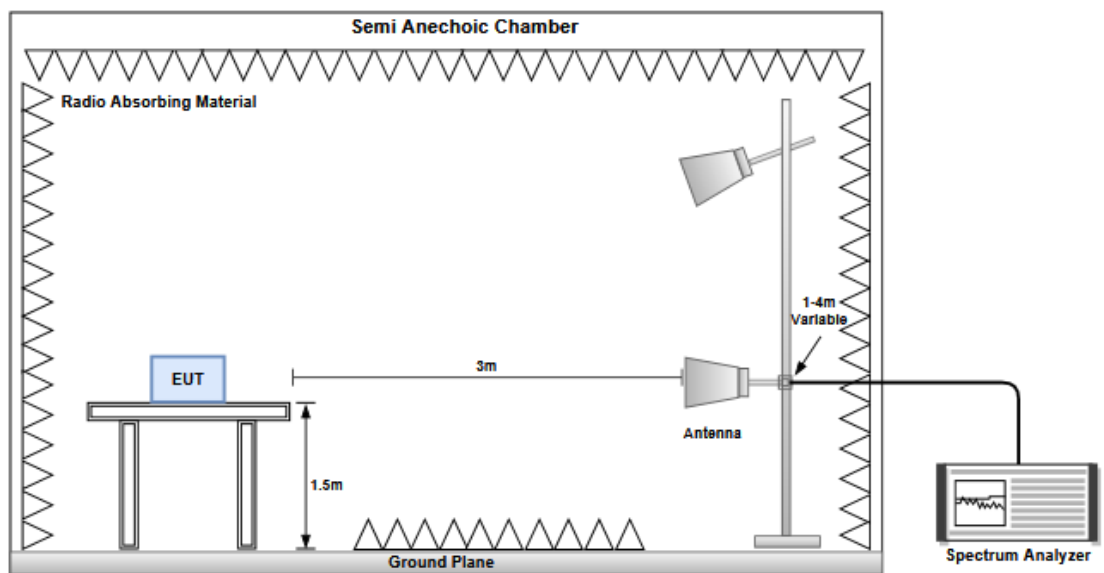
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Ambient Condition	23~24°C / 62~64%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Conducted Emissions & Band Edge

3.3.1 Limit of Conducted 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

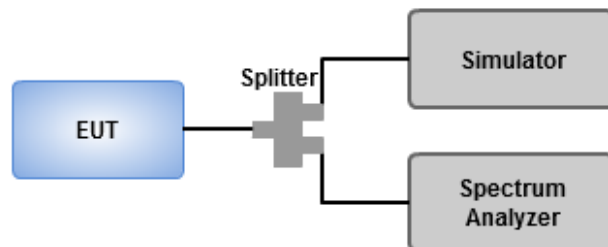
Out of band emission

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

Ambient Condition	24~26°C / 63~65%	Tested By	Aska Huang
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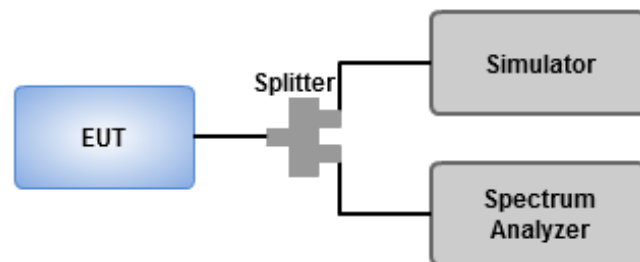
Refer to Appendix C.1, C.2.

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

Ambient Condition	24~26°C / 63~65%	Tested By	Aska Huang
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Refer to Appendix D.

3.5 Peak to Average Ratio

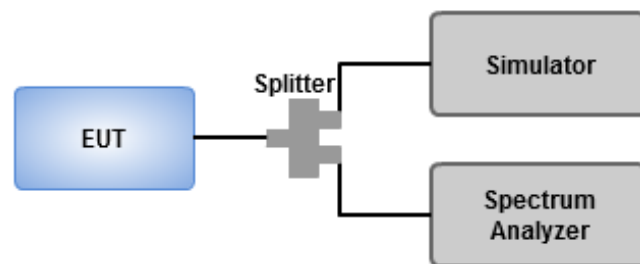
3.5.1 Limit of Peak to Average Ratio

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

3.5.2 Test Procedures

1. 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 Ratio

Ambient Condition	24~26°C / 63~65%	Tested By	Aska Huang
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Refer to Appendix E.

3.6 Frequency Stability

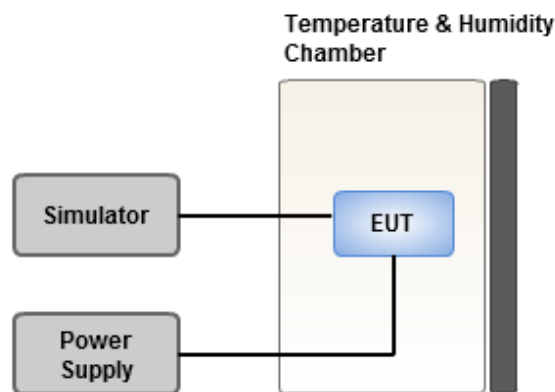
3.6.1 Limit of Frequency Stability

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. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	24~26°C / 63~65%	Tested By	Aska Huang
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Refer to Appendix F.

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 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

NR n5 Maximum Average Power [dBm](GT-LC= -1.2 dB)								
BW(MHz)	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	22.12	22.12	22.16	18.91	0.0778
20	1	104		22.03	22.03	22.11		
20	50	25		22.23	22.22	22.26		
20	1	0		21.56	21.51	21.55		
20	1	105		21.69	21.62	21.76		
20	100	0		21.75	21.72	21.66		
20	1	1	QPSK	21.83	21.64	21.66	18.84	0.0766
20	1	104		21.76	21.76	21.76		
20	50	25		22.18	22.19	22.13		
20	1	0		21.12	20.85	21.16		
20	1	105		20.72	20.76	20.76		
20	100	0		21.36	21.22	21.16		
20	1	1	16-QAM	21.13	21.3	21.26	18.08	0.0643
20	50	25		21.21	21.25	21.43		
20	100	0		20.21	20.38	20.57		
20	1	1	64-QAM	19.25	19.06	19.64	16.94	0.0494
20	50	25		19.9	19.98	20.29		
20	100	0		19.92	20.03	20.26		
20	1	1	256-QAM	17.65	17.74	17.72	14.85	0.0305
20	50	25		17.9	17.97	18.08		
20	100	0		17.97	18	18.2		

NR n5 Maximum Average Power [dBm](GT-LC= -1.2 dB)								
BW(MHz)	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	22.07	22.08	22.11	18.82	0.0762
15	1	77		21.99	22	22.09		
15	36	18		22.15	22.17	22.15		
15	1	0		21.55	21.48	21.49		
15	1	78		21.66	21.6	21.72		
15	75	0		21.72	21.71	21.65		
15	1	1	QPSK	21.76	21.62	21.62	18.8	0.0759
15	1	77		21.72	21.72	21.73		
15	36	18		22.13	22.15	22.08		
15	1	0		21.1	20.76	21.11		
15	1	78		20.68	20.68	20.73		
15	75	0		21.31	21.17	21.12		
15	1	1	16-QAM	21.16	21.04	20.85	17.97	0.0627
15	36	18		21.16	21.32	21.06		
15	75	0		20.25	20.45	20.23		
15	1	1	64-QAM	18.8	18.87	18.49	16.82	0.0481
15	36	18		20.02	20.07	19.84		
15	75	0		19.93	20.17	19.85		
15	1	1	256-QAM	17.55	17.7	17.53	14.59	0.0288
15	36	18		17.86	17.92	17.73		
15	75	0		17.87	17.94	17.7		

NR n5 Maximum Average Power [dBm](GT-LC= -1.2 dB)								
BW(MHz)	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	21.86	21.94	21.88	18.9	0.0776
10	1	50		21.82	21.8	21.86		
10	25	12		22.25	22.23	22.18		
10	1	0		21.15	21.21	21.21		
10	1	51		21.13	21.12	21.18		
10	50	0		21.78	21.72	21.76		
10	1	1	QPSK	21.7	21.78	21.75	18.81	0.0760
10	1	50		21.68	21.75	21.82		
10	25	12		22.08	22.16	22.15		
10	1	0		20.68	20.72	20.73		
10	1	51		20.71	20.78	20.81		
10	50	0		21.15	21.21	21.28		
10	1	1	16-QAM	21.06	21.1	20.74	17.94	0.0622
10	25	12		21.23	21.29	21.1		
10	50	0		20.39	20.32	20.04		
10	1	1	64-QAM	19.09	18.9	18.54	16.76	0.0474
10	25	12		19.92	20.11	19.87		
10	50	0		19.82	20.08	20.02		
10	1	1	256-QAM	17.52	17.63	17.56	14.63	0.0290
10	25	12		17.89	17.98	17.75		
10	50	0		17.85	17.92	17.77		

NR n2 Maximum Average Power [dBm](GT-LC= 0.2 dB)								
BW(MHz)	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	21.91	22.01	21.86	18.9	0.0776
5	1	23		21.9	21.87	21.82		
5	12	6		22.24	22.25	22.22		
5	1	0		21.11	21.28	21.24		
5	1	24		21.15	21.18	21.22		
5	25	0		21.75	21.76	21.75		
5	1	1	QPSK	21.85	21.92	21.77	18.87	0.0771
5	1	23		21.82	21.86	21.75		
5	12	6		22.14	22.22	22.12		
5	1	0		20.76	20.76	20.76		
5	1	24		20.71	20.81	20.83		
5	25	0		21.22	21.28	21.32		
5	1	1	16-QAM	20.98	20.83	21.25	17.92	0.0619
5	12	6		21.09	21.13	21.27		
5	25	0		20.07	20.37	20.27		
5	1	1	64-QAM	18.72	19.05	19.2	16.73	0.0471
5	12	6		19.87	19.92	20.08		
5	25	0		19.88	19.93	20.01		
5	1	1	256-QAM	17.5	17.52	17.59	14.59	0.0288
5	12	6		17.78	17.7	17.92		
5	25	0		17.89	17.76	17.94		

Mode	EN-DC 30A_n5, PI/2 BPSK, CB:20 MHz, 1 RB, Channel: 166800						
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)
1649.2	H	-67.1	-13	-54.1	-69.23	-70.29	5.34
2473.8	H	-64.77	-13	-51.77	-69.65	-68.22	5.6
3298.4	H	-63.55	-13	-50.55	-70.23	-67.83	6.43
1649.2	V	-67.03	-13	-54.03	-69.28	-70.22	5.34
2473.8	V	-65	-13	-52	-69.58	-68.45	5.6
3298.4	V	-63.91	-13	-50.91	-70.59	-68.19	6.43

Mode	EN-DC 30A_n5, PI/2 BPSK, CB:20 MHz, 1 RB, Channel: 167300						
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)
1654.2	H	-67.31	-13	-54.31	-69.45	-70.51	5.35
2481.3	H	-64.7	-13	-51.7	-69.58	-68.17	5.62
3308.4	H	-62.67	-13	-49.67	-69.33	-66.99	6.47
1654.2	V	-67.23	-13	-54.23	-69.47	-70.43	5.35
2481.3	V	-64.95	-13	-51.95	-69.53	-68.42	5.62
3308.4	V	-62.55	-13	-49.55	-69.21	-66.87	6.47

Mode	EN-DC 30A_n5, PI/2 BPSK, CB:20 MHz, 1 RB, Channel: 167800						
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)
1659.2	H	-66.96	-13	-53.96	-69.11	-70.17	5.36
2488.8	H	-64.67	-13	-51.67	-69.54	-68.16	5.64
3318.4	H	-62.93	-13	-49.93	-69.58	-67.3	6.52
1659.2	V	-67.11	-13	-54.11	-69.35	-70.32	5.36
2488.8	V	-65.07	-13	-52.07	-69.65	-68.56	5.64
3318.4	V	-62.77	-13	-49.77	-69.43	-67.14	6.52

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

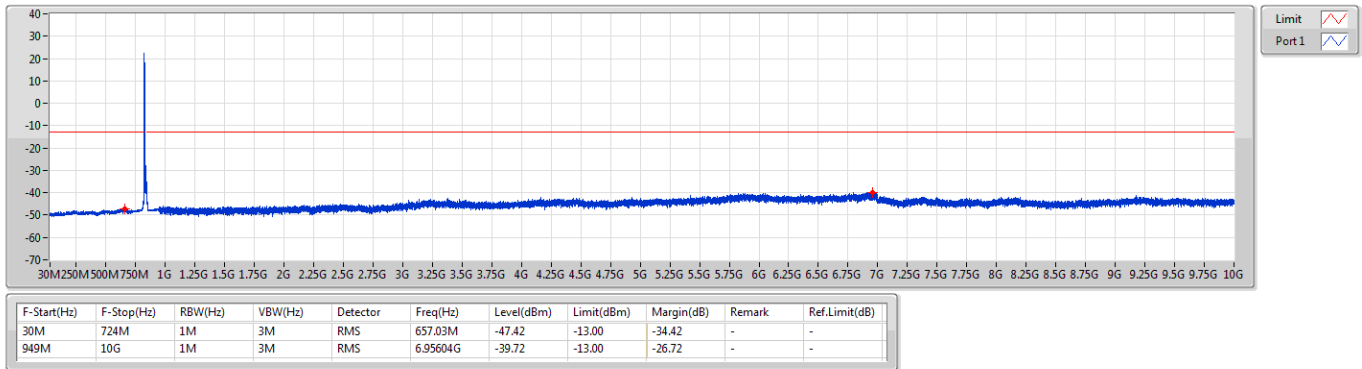
**Summary**

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 n5	-	-	-	-	-	-	-	-	-	-	-	-
NR_20MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	949M	10G	1M	3M	RMS	6.95604G	-39.72	-13.00	-26.72	-	-
NR_15MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	949M	10G	1M	3M	RMS	6.9204G	-39.65	-13.00	-26.65	-	-
NR_10MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	949M	10G	1M	3M	RMS	5.87557G	-39.69	-13.00	-26.69	-	-
NR_5MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	949M	10G	1M	3M	RMS	6.93652G	-39.57	-13.00	-26.57	-	-

Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

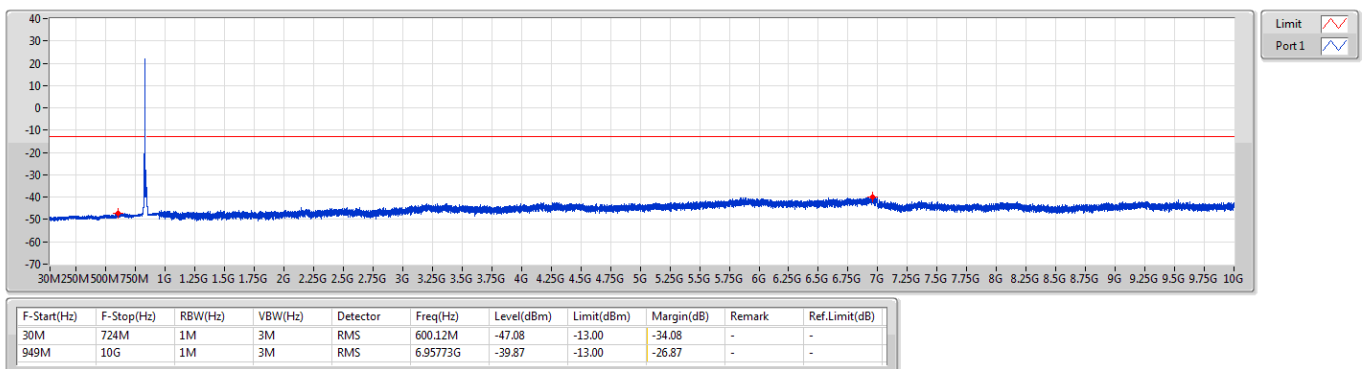
834MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

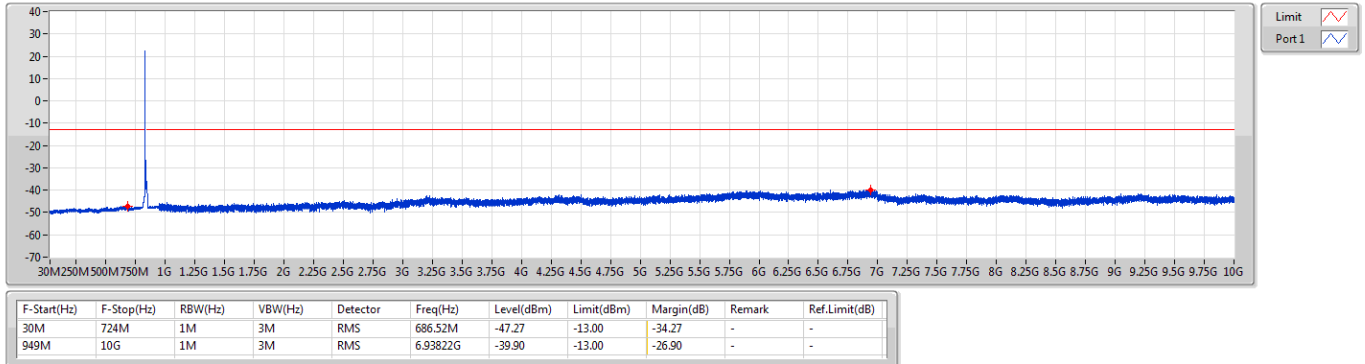
836.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

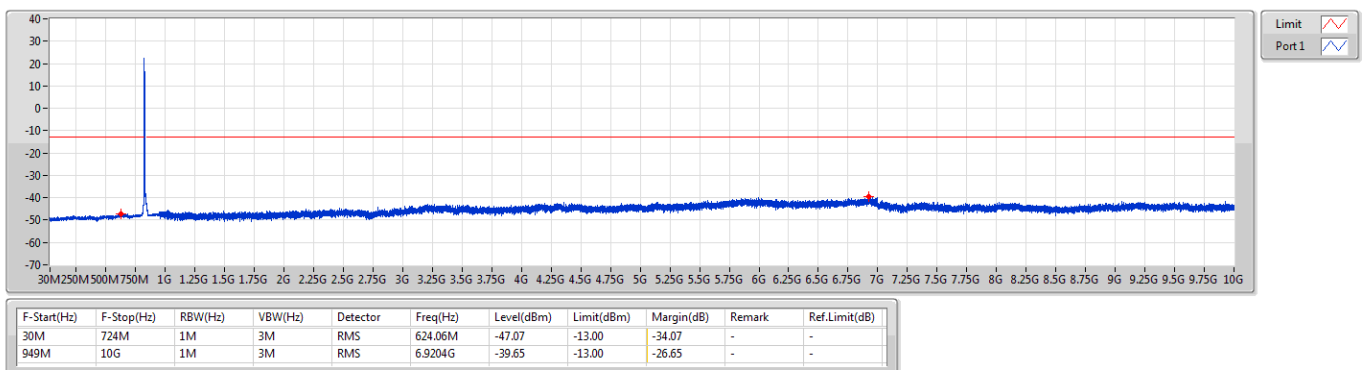
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Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

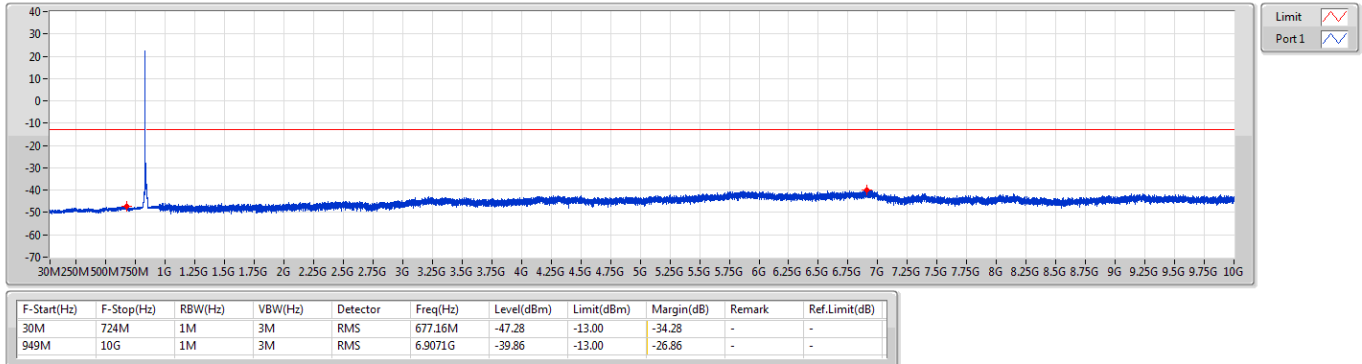
831.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

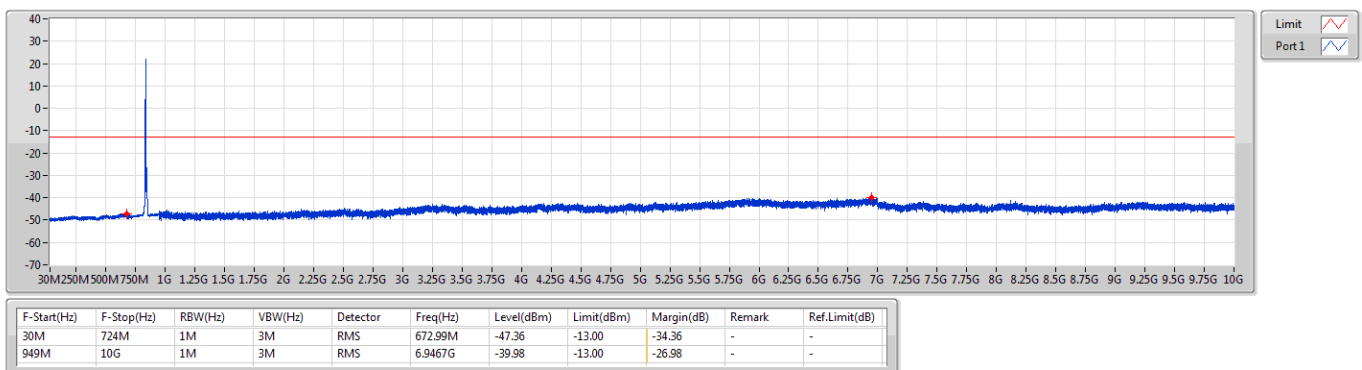
836.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

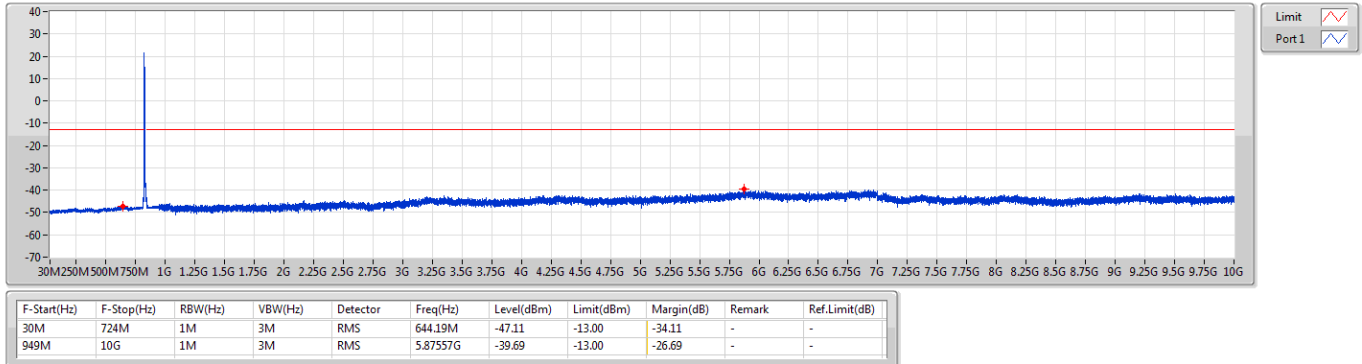
841.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_10MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

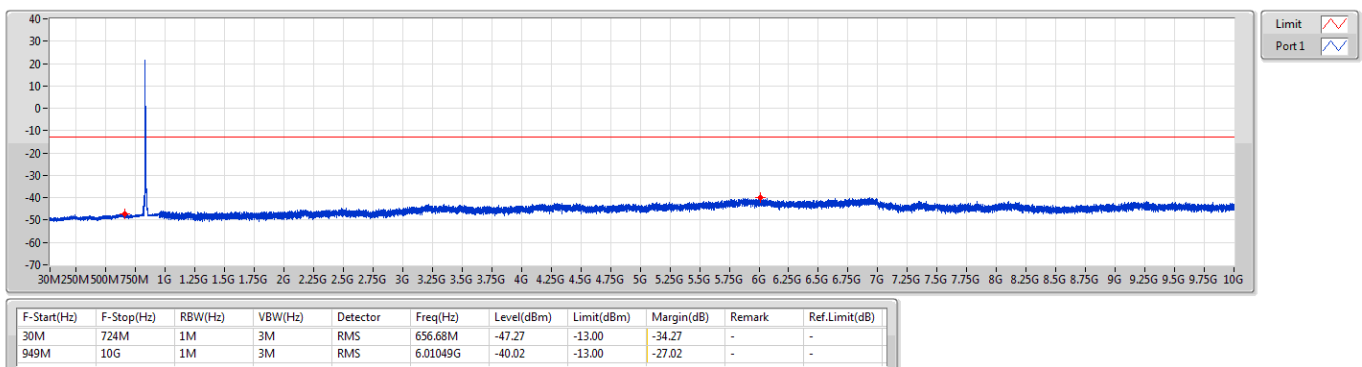
829MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_10MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

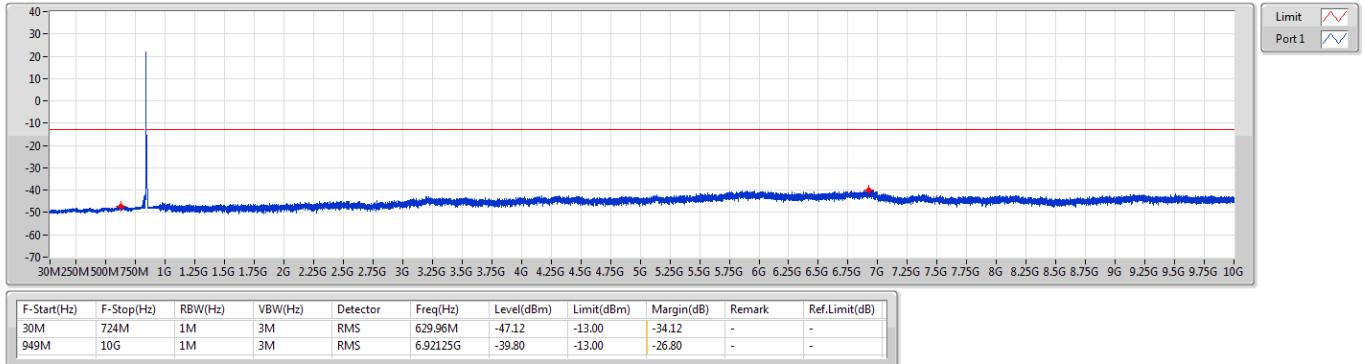
836.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_10MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

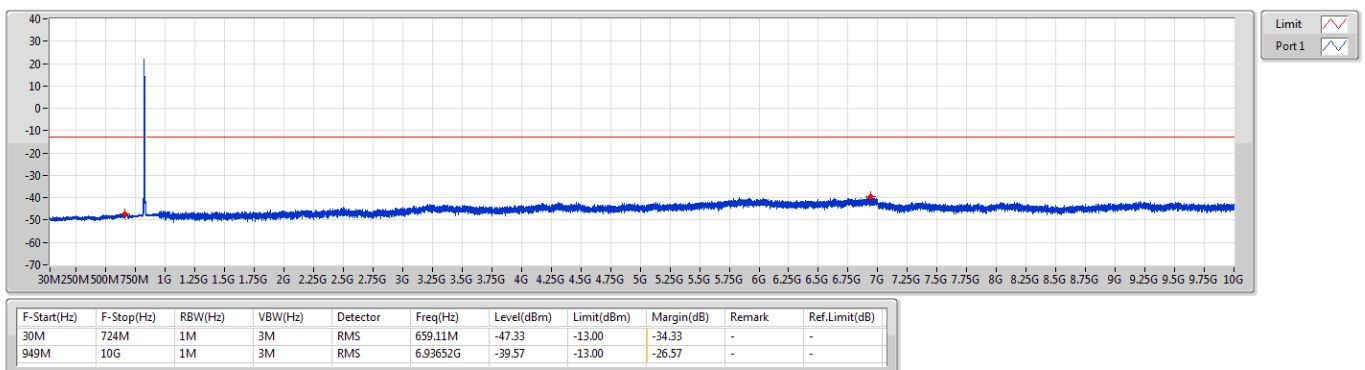
844MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

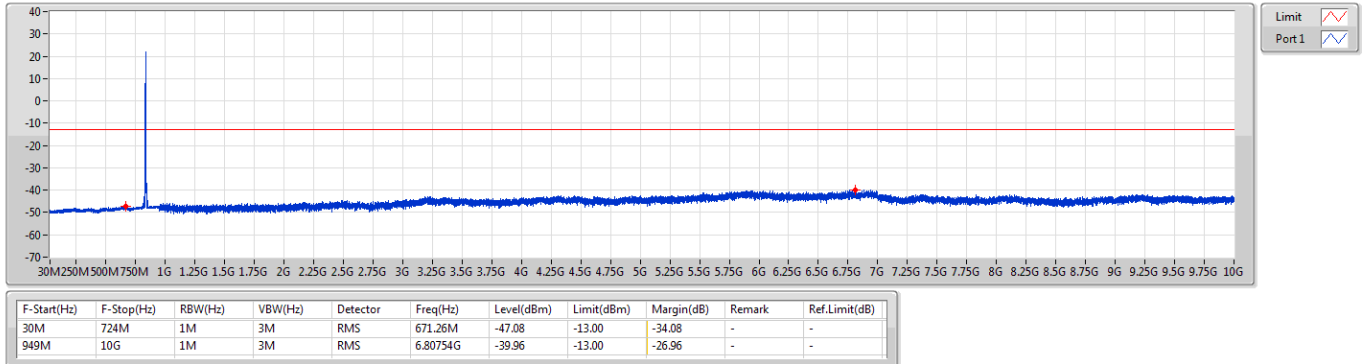
826.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

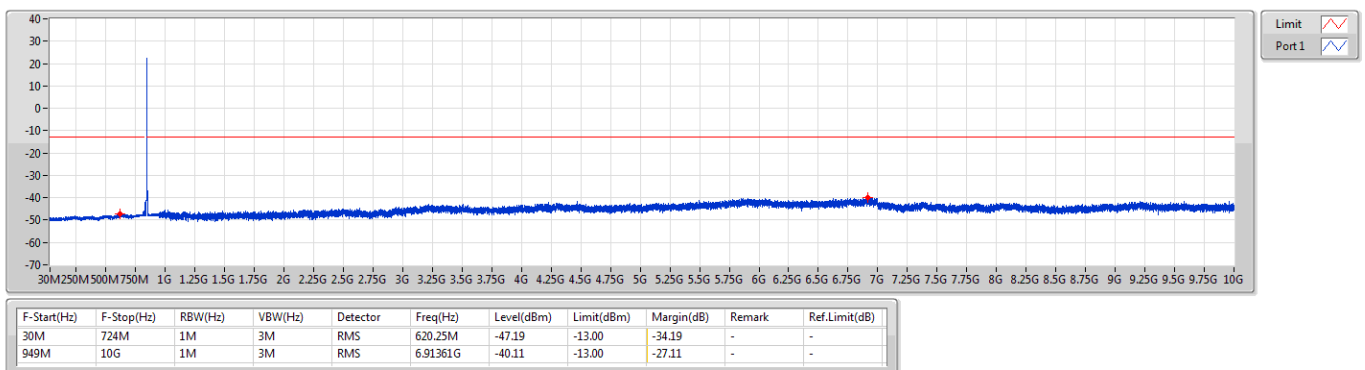
836.5MHz_DFT-s-OFDM_PI2BPSK_1RB



Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

CSE-TX-Sum

846.5MHz_DFT-s-OFDM_PI2BPSK_1RB

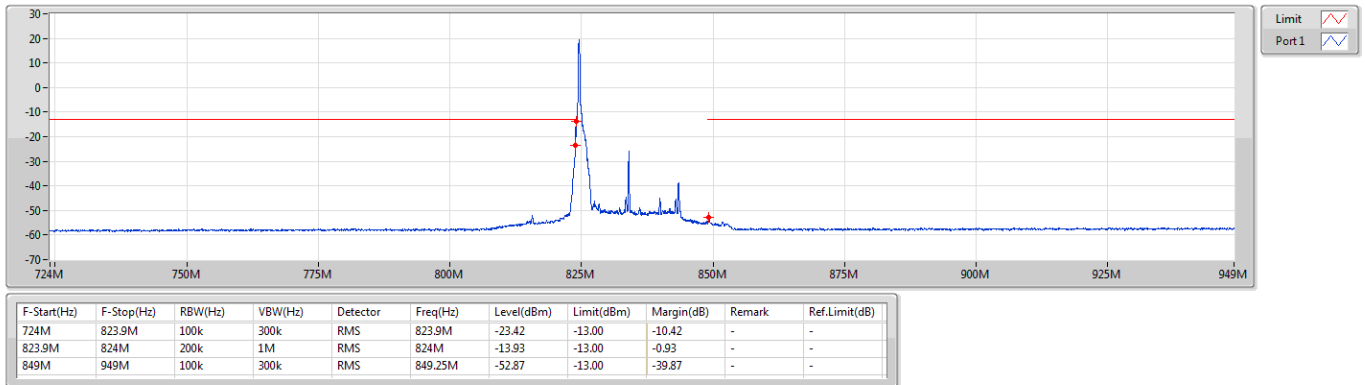


Summary

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 n5	-	-	-	-	-	-	-	-	-	-	-	-
NR_20MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	824M	-13.93	-13.00	-0.93	-	-
NR_20MHz_Nss1,DFT-s-OFDM_QPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	823.99M	-13.25	-13.00	-0.25	-	-
NR_20MHz_Nss1,DFT-s-OFDM_16QAM_1TX	Pass	823.9M	824M	200k	1M	RMS	824M	-13.80	-13.00	-0.80	-	-
NR_20MHz_Nss1,DFT-s-OFDM_64QAM_1TX	Pass	849M	849.1M	200k	1M	RMS	849M	-16.77	-13.00	-3.77	-	-
NR_20MHz_Nss1,DFT-s-OFDM_256QAM_1TX	Pass	849M	849.1M	200k	1M	RMS	849M	-16.19	-13.00	-3.19	-	-
NR_20MHz_Nss1,CP-OFDM_QPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	823.99M	-32.77	-13.00	-19.77	-	-
NR_15MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	823.99M	-14.52	-13.00	-1.52	-	-
NR_15MHz_Nss1,DFT-s-OFDM_QPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	824M	-14.36	-13.00	-1.36	-	-
NR_15MHz_Nss1,DFT-s-OFDM_16QAM_1TX	Pass	823.9M	824M	200k	1M	RMS	823.99M	-15.52	-13.00	-2.52	-	-
NR_15MHz_Nss1,DFT-s-OFDM_64QAM_1TX	Pass	823.9M	824M	200k	1M	RMS	824M	-18.81	-13.00	-5.81	-	-
NR_15MHz_Nss1,DFT-s-OFDM_256QAM_1TX	Pass	849M	849.1M	200k	1M	RMS	849M	-18.53	-13.00	-5.53	-	-
NR_15MHz_Nss1,CP-OFDM_QPSK_1TX	Pass	823.9M	824M	200k	1M	RMS	824M	-32.09	-13.00	-19.09	-	-
NR_10MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	823.9M	824M	100k	300k	RMS	824M	-17.35	-13.00	-4.35	-	-
NR_10MHz_Nss1,DFT-s-OFDM_QPSK_1TX	Pass	823.9M	824M	100k	300k	RMS	824M	-15.52	-13.00	-2.52	-	-
NR_10MHz_Nss1,DFT-s-OFDM_16QAM_1TX	Pass	823.9M	824M	100k	300k	RMS	823.99M	-17.12	-13.00	-4.12	-	-
NR_10MHz_Nss1,DFT-s-OFDM_64QAM_1TX	Pass	823.9M	824M	100k	300k	RMS	823.98M	-20.39	-13.00	-7.39	-	-
NR_10MHz_Nss1,DFT-s-OFDM_256QAM_1TX	Pass	849M	849.1M	100k	300k	RMS	849.01M	-19.45	-13.00	-6.45	-	-
NR_10MHz_Nss1,CP-OFDM_QPSK_1TX	Pass	823.9M	824M	100k	300k	RMS	824M	-34.17	-13.00	-21.17	-	-
NR_5MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	823.9M	824M	50k	200k	RMS	824M	-20.46	-13.00	-7.46	-	-
NR_5MHz_Nss1,DFT-s-OFDM_QPSK_1TX	Pass	823.9M	824M	50k	200k	RMS	824M	-19.05	-13.00	-6.05	-	-
NR_5MHz_Nss1,DFT-s-OFDM_16QAM_1TX	Pass	823.9M	824M	50k	200k	RMS	824M	-19.97	-13.00	-6.97	-	-
NR_5MHz_Nss1,DFT-s-OFDM_64QAM_1TX	Pass	823.9M	824M	50k	200k	RMS	824M	-23.36	-13.00	-10.36	-	-
NR_5MHz_Nss1,DFT-s-OFDM_256QAM_1TX	Pass	849M	849.1M	50k	200k	RMS	849M	-23.11	-13.00	-10.11	-	-
NR_5MHz_Nss1,CP-OFDM_QPSK_1TX	Pass	823.9M	824M	50k	200k	RMS	823.99M	-32.32	-13.00	-19.32	-	-

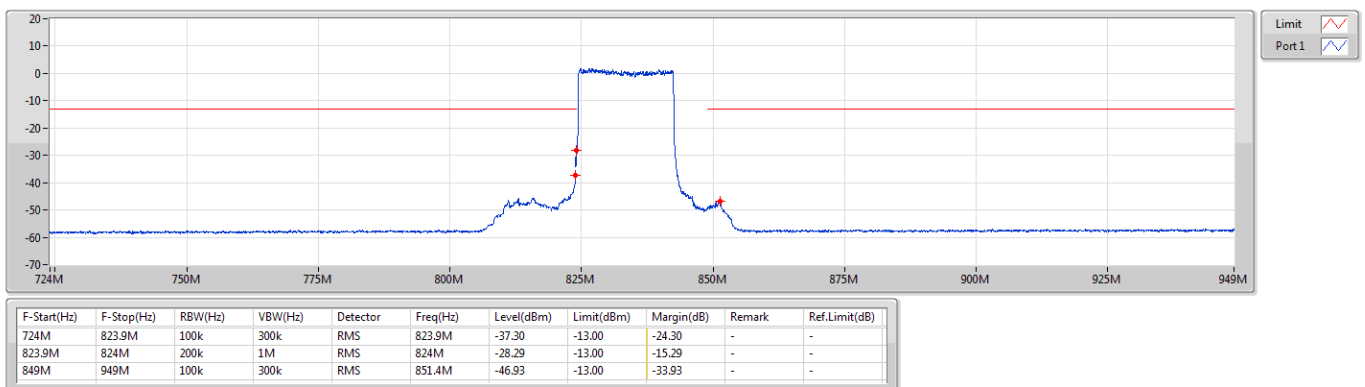
Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
834MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Left

CSE-TX-Sum



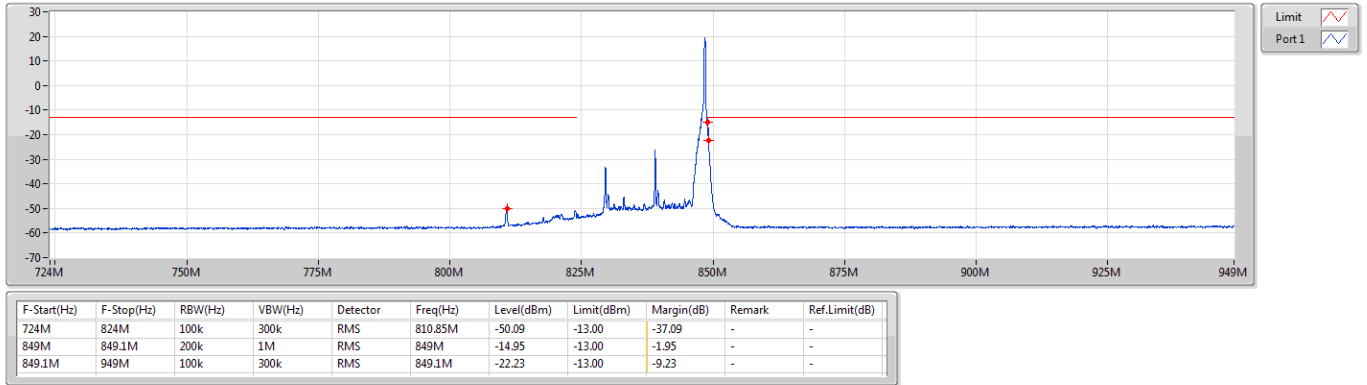
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834MHz_DFT-s-OFDM_PI2BPSK_Outer_Full

CSE-TX-Sum



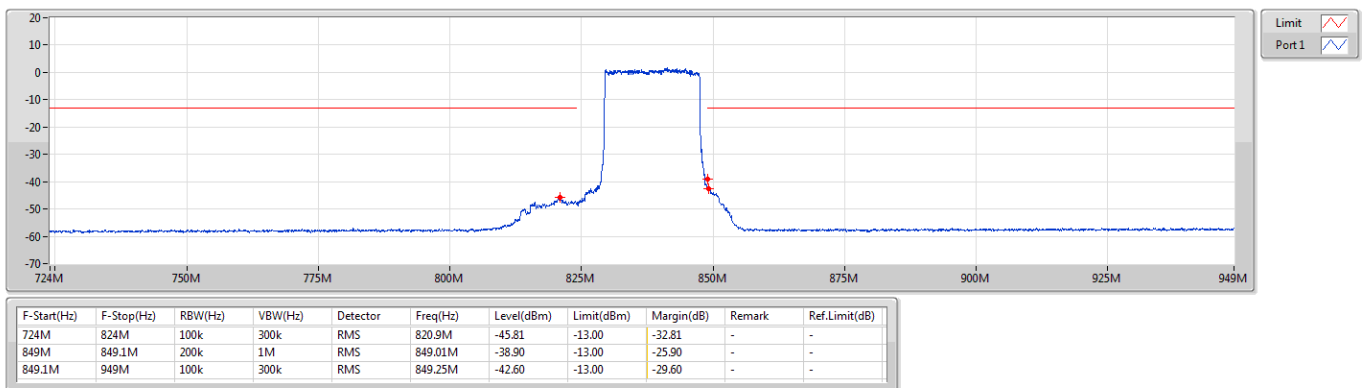
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839MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Right

CSE-TX-Sum



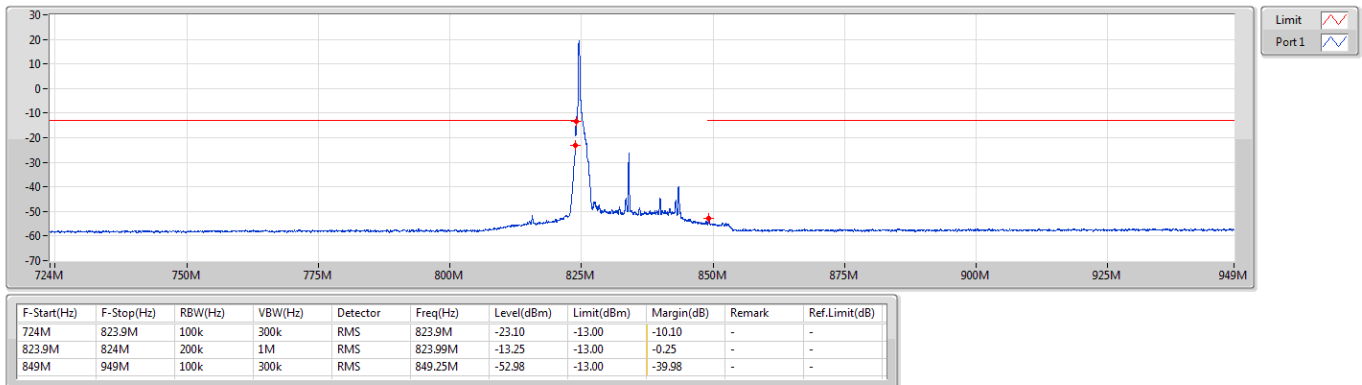
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839MHz_DFT-s-OFDM_PI2BPSK_Outer_Full

CSE-TX-Sum



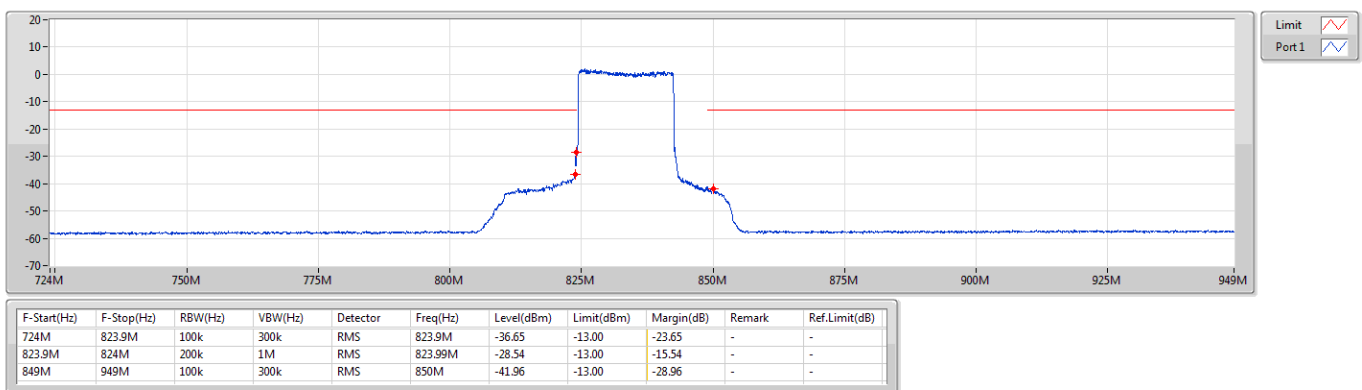
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834MHz_DFT-s-OFDM_QPSK_Edge_1RB_Left

CSE-TX-Sum



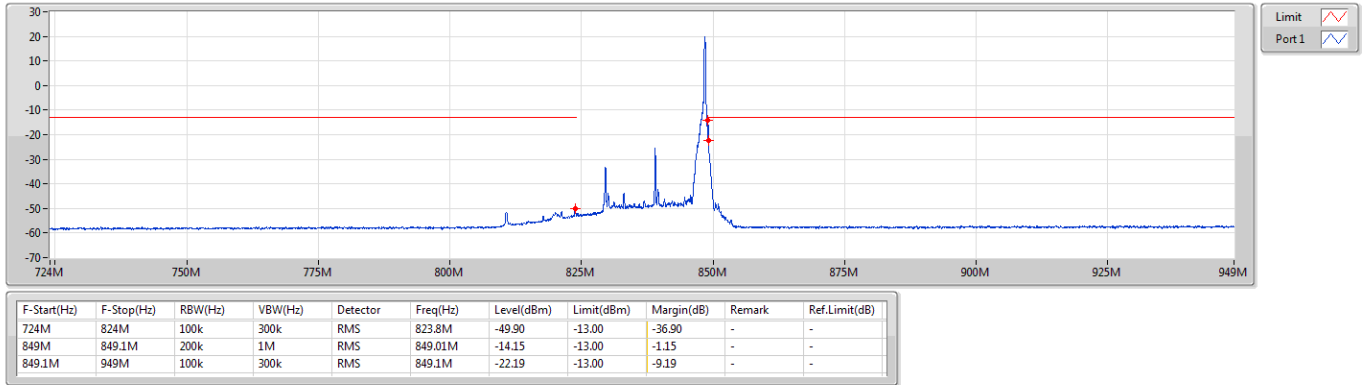
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834MHz_DFT-s-OFDM_QPSK_Outer_Full

CSE-TX-Sum



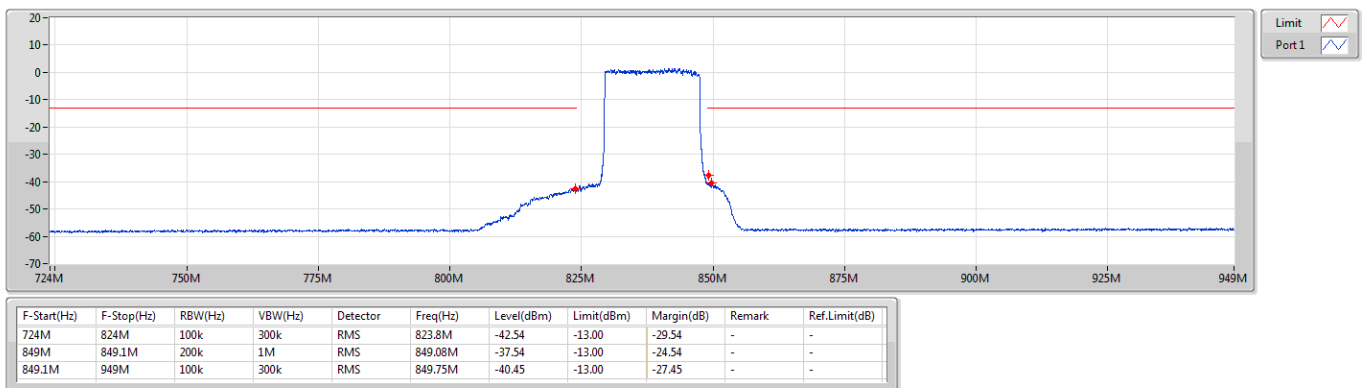
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839MHz_DFT-s-OFDM_QPSK_Edge_1RB_Right

CSE-TX-Sum



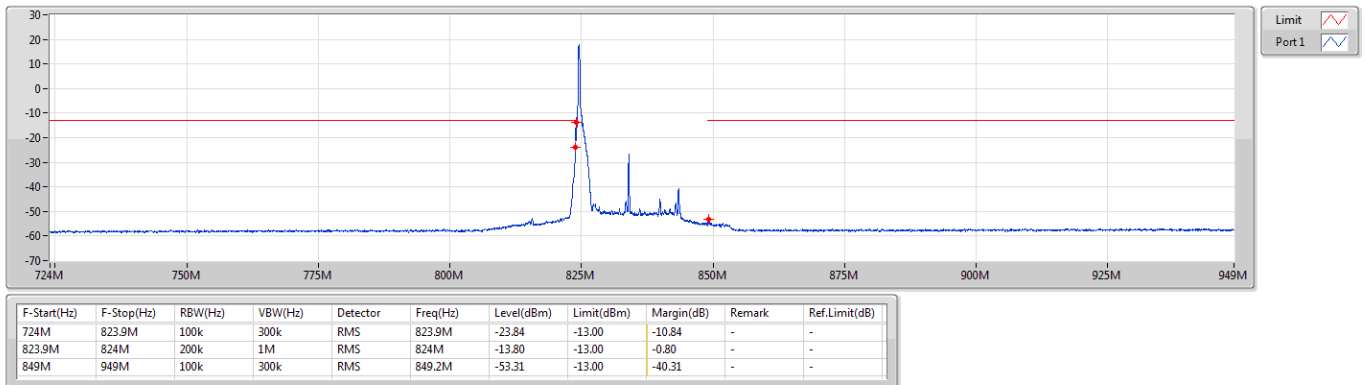
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CSE-TX-Sum



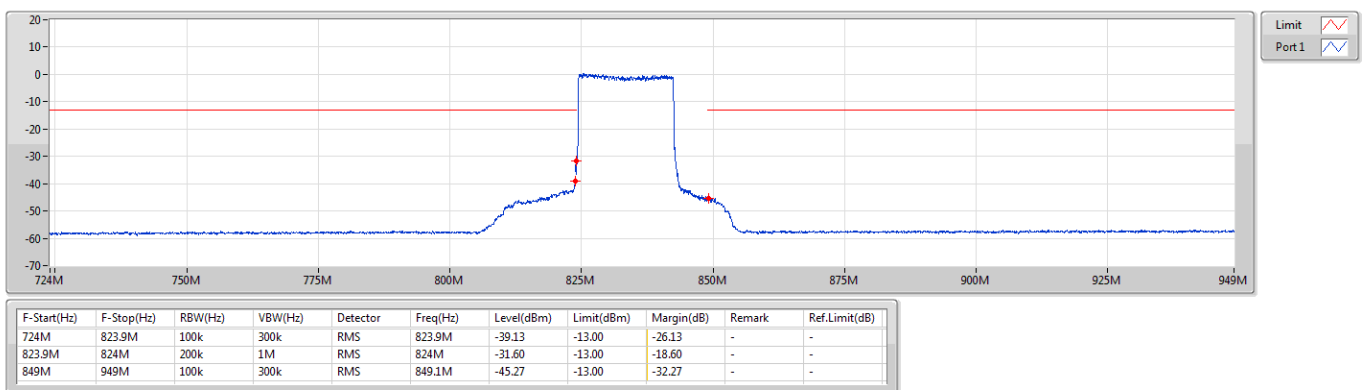
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CSE-TX-Sum



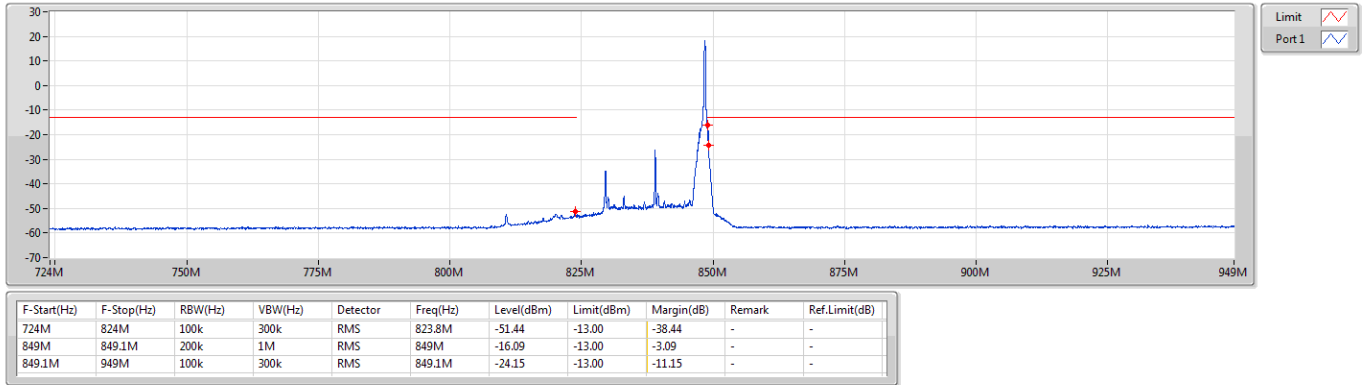
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CSE-TX-Sum



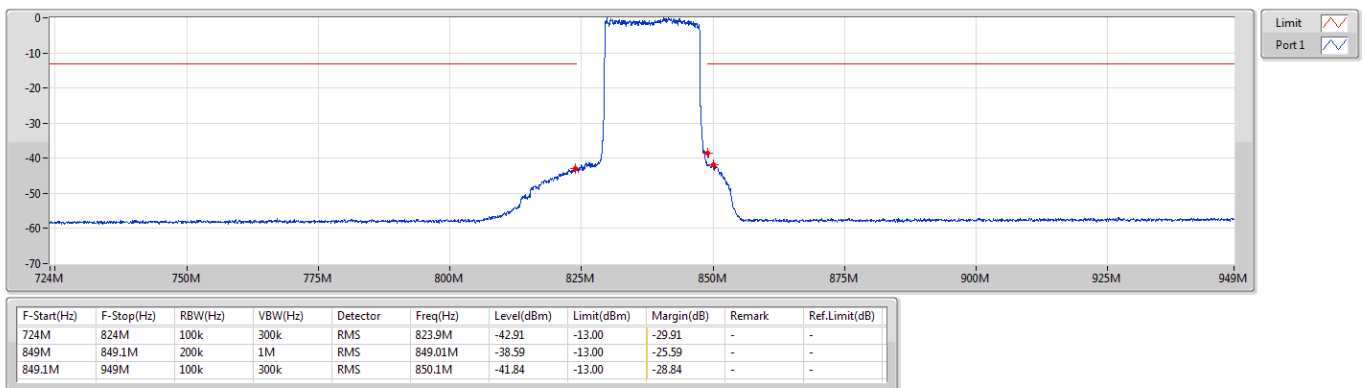
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CSE-TX-Sum



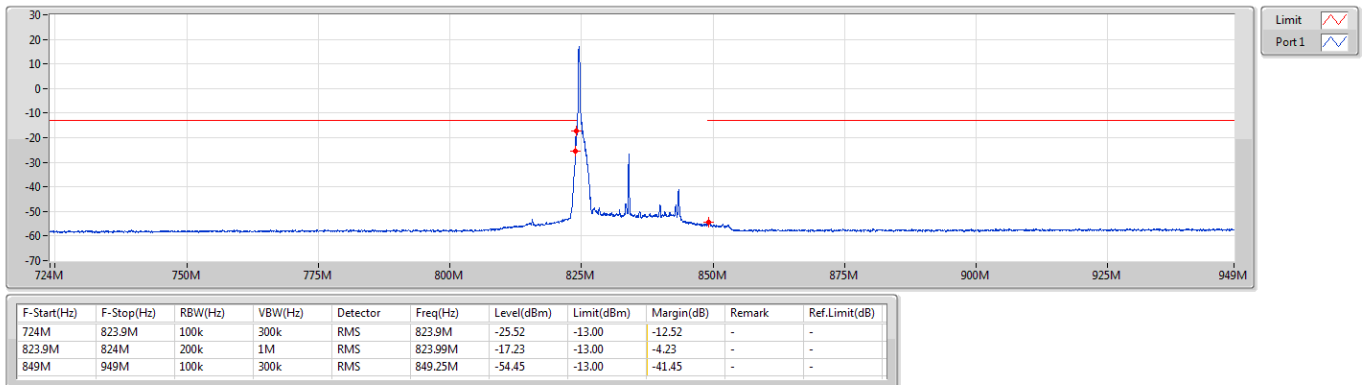
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CSE-TX-Sum



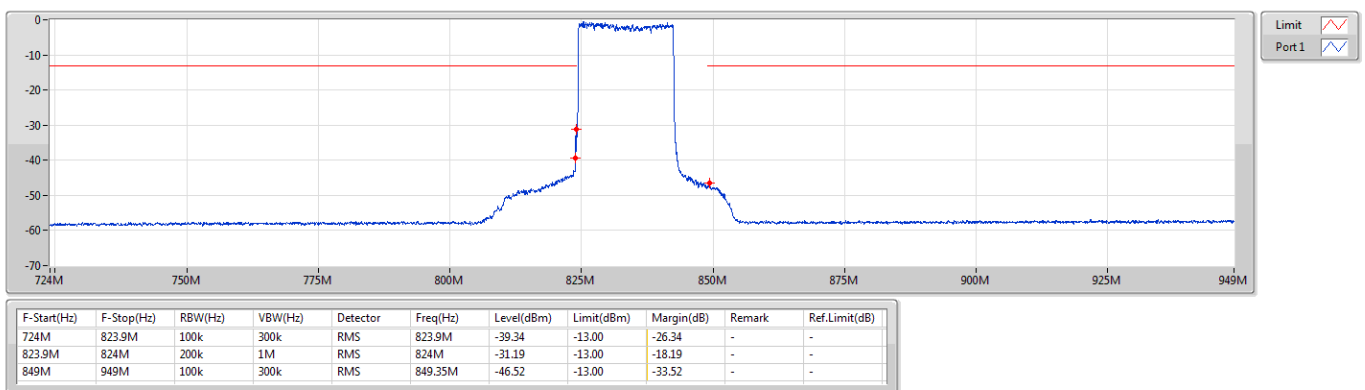
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CSE-TX-Sum



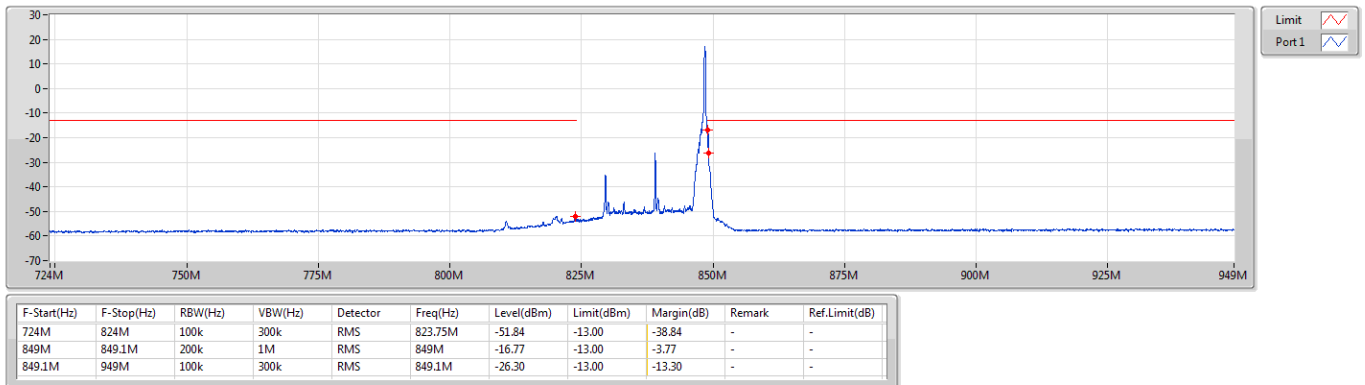
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834MHz_DFT-s-OFDM_64QAM_Outer_Full

CSE-TX-Sum



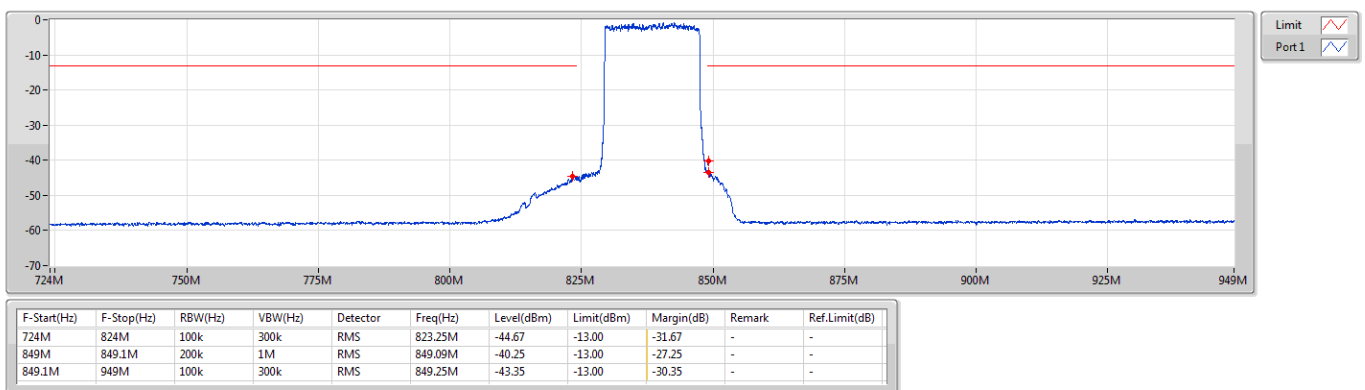
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839MHz_DFT-s-OFDM_64QAM_Edge_1RB_Right

CSE-TX-Sum



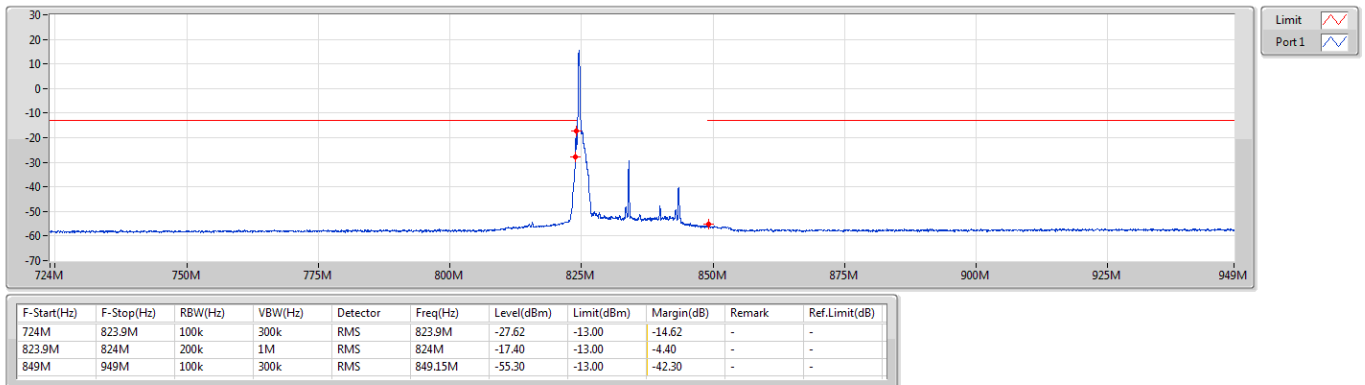
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CSE-TX-Sum



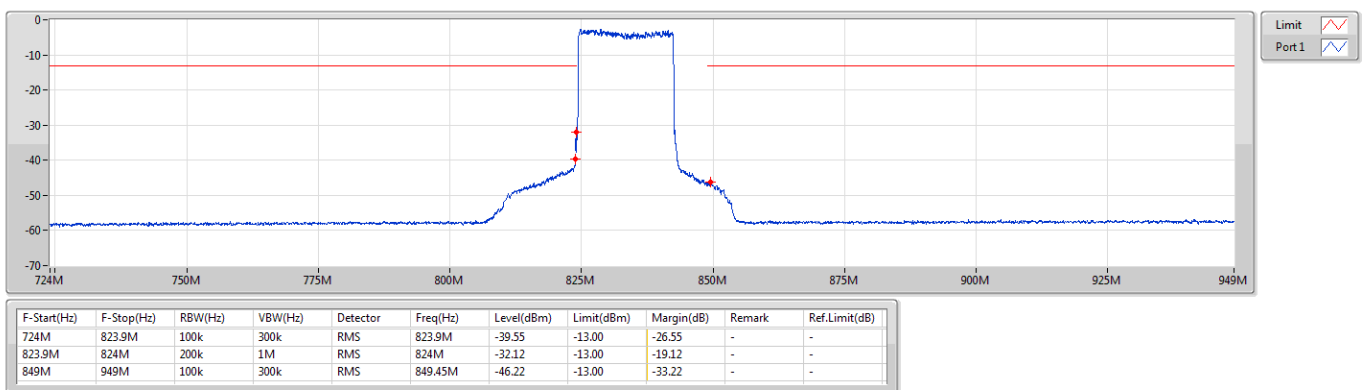
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CSE-TX-Sum



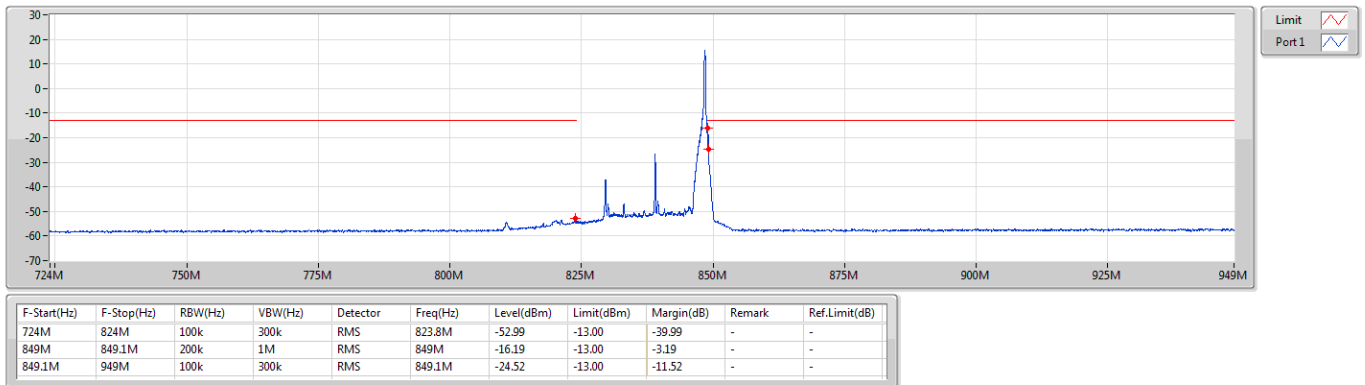
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834MHz_DFT-s-OFDM_256QAM_Outer_Full

CSE-TX-Sum



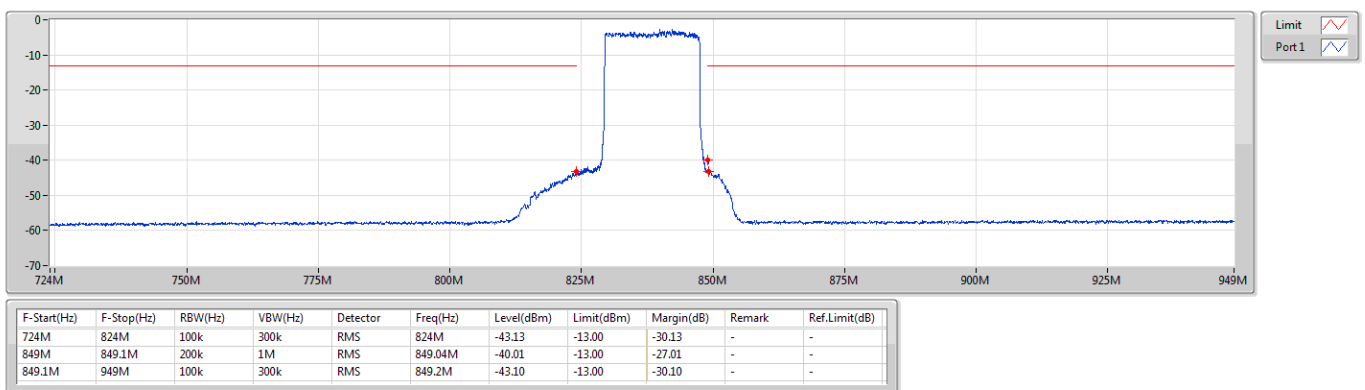
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839MHz_DFT-s-OFDM_256QAM_Edge_1RB_Right

CSE-TX-Sum



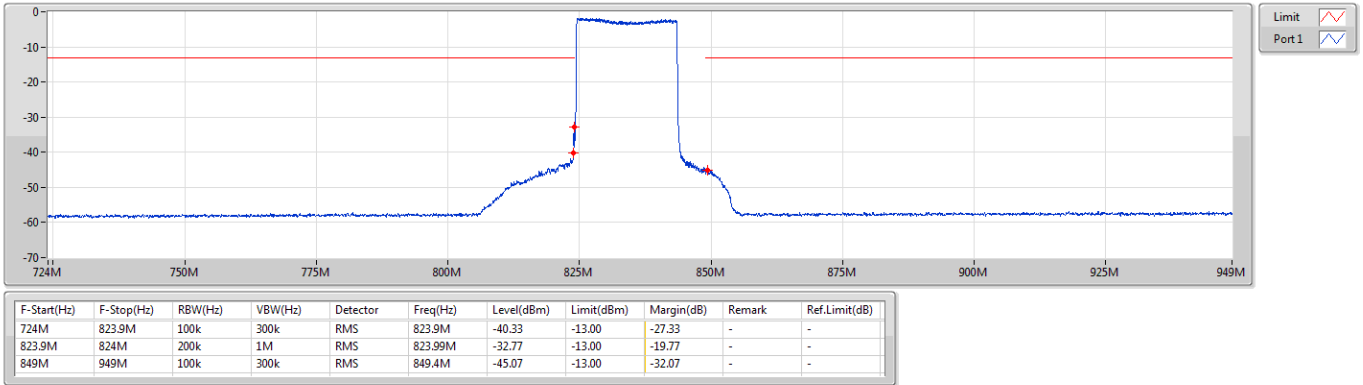
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CSE-TX-Sum



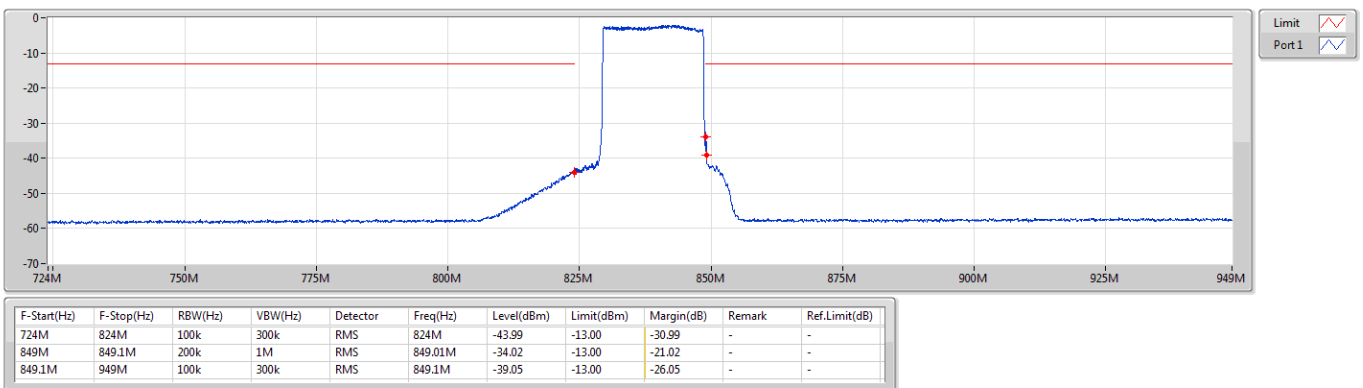
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834MHz_CP-OFDM_QPSK_Outer_Full

CSE-TX-Sum



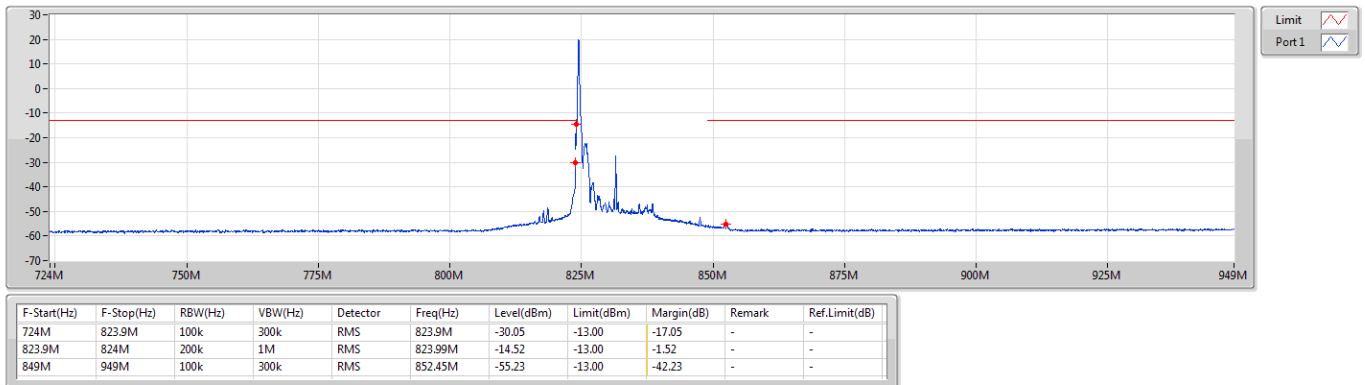
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839MHz_CP-OFDM_QPSK_Outer_Full

CSE-TX-Sum



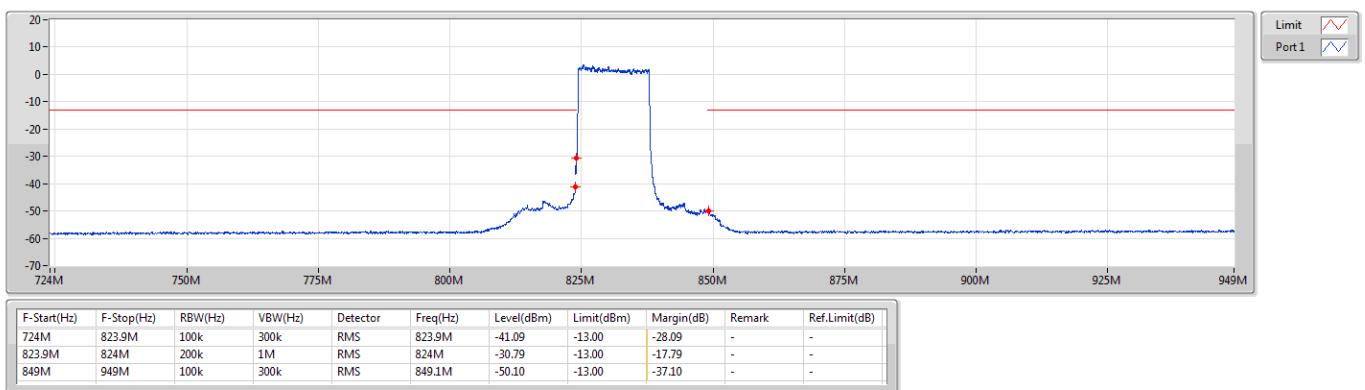
Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
831.5MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Left

CSE-TX-Sum



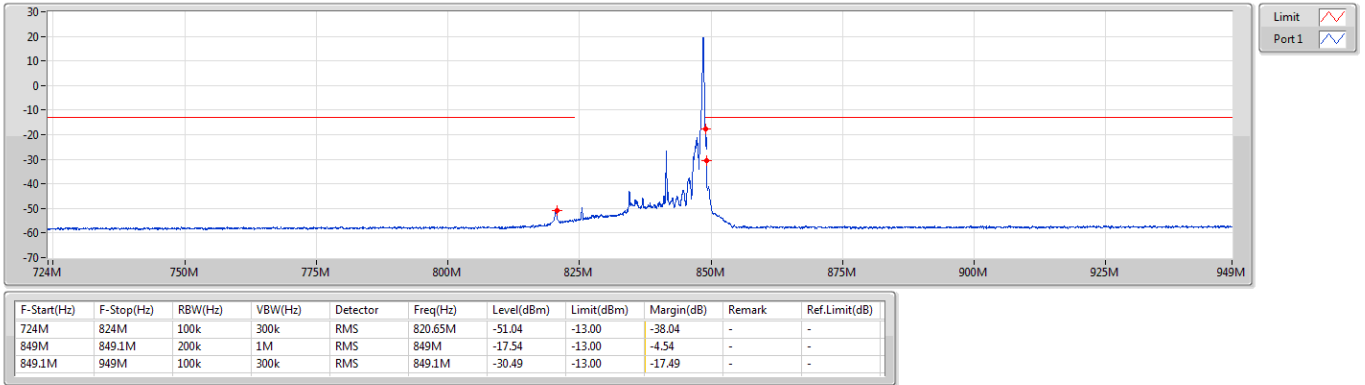
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CSE-TX-Sum



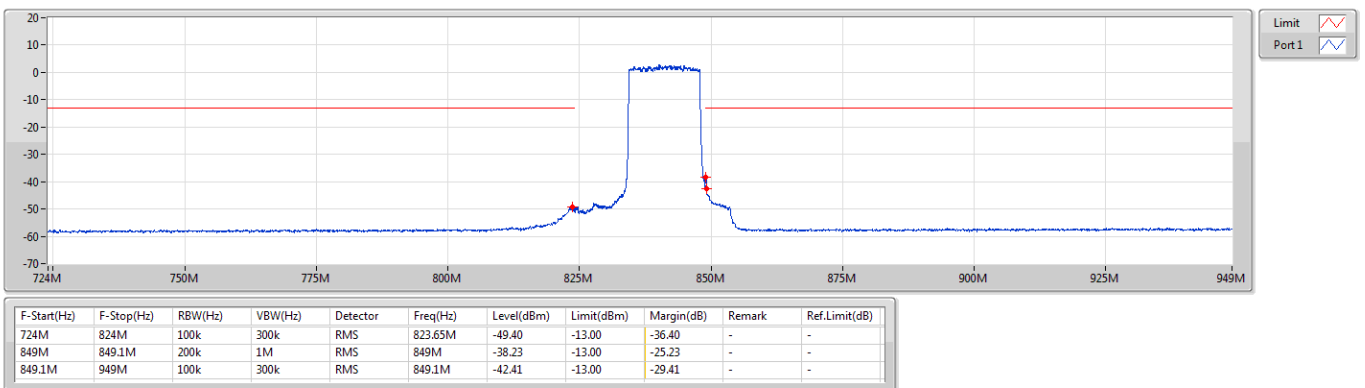
Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
841.5MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Right

CSE-TX-Sum



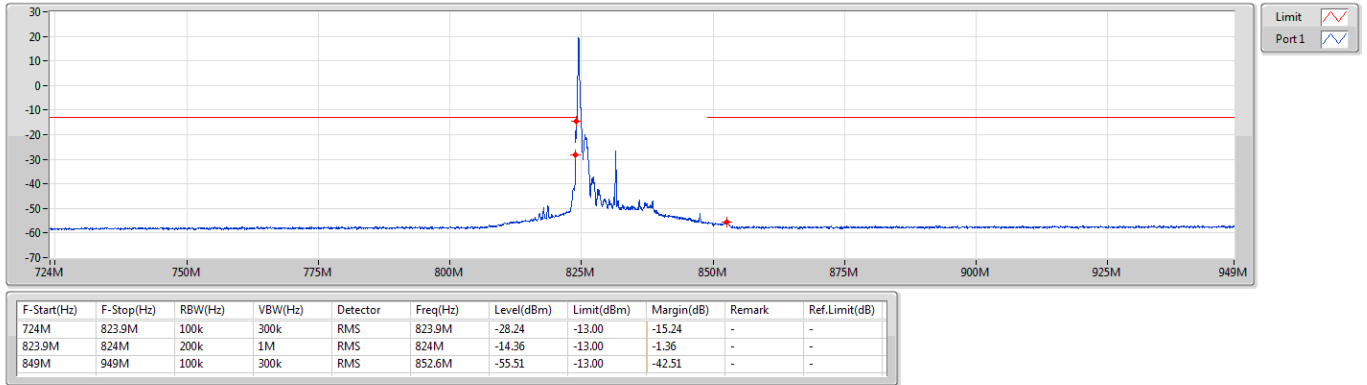
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CSE-TX-Sum



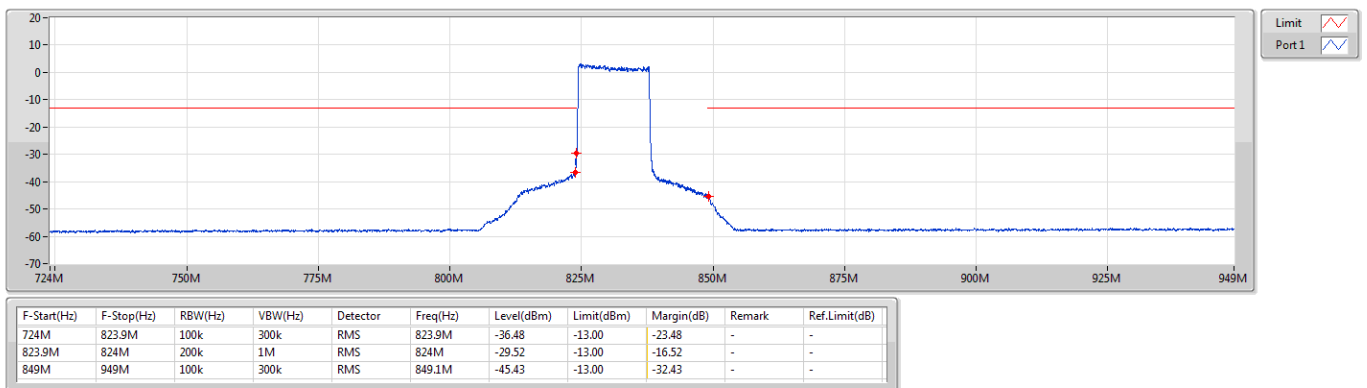
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CSE-TX-Sum



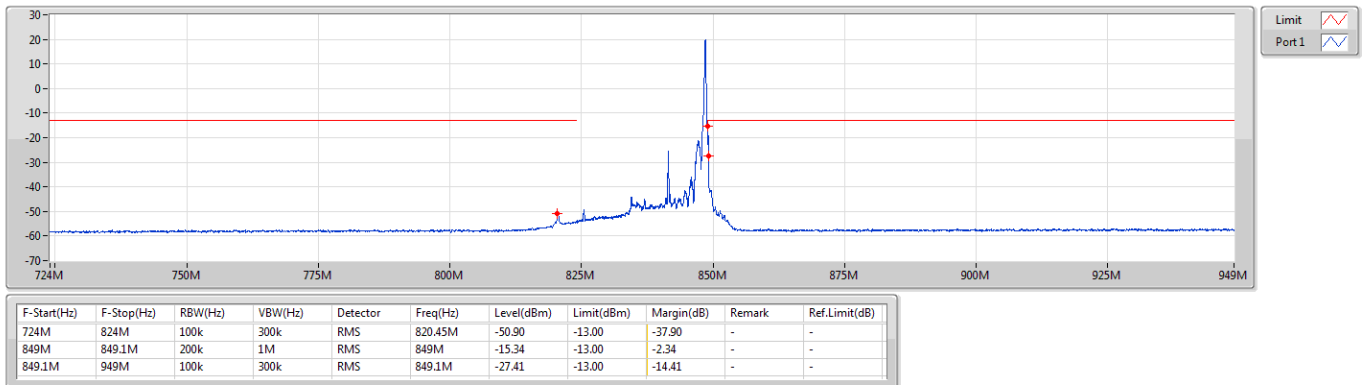
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CSE-TX-Sum



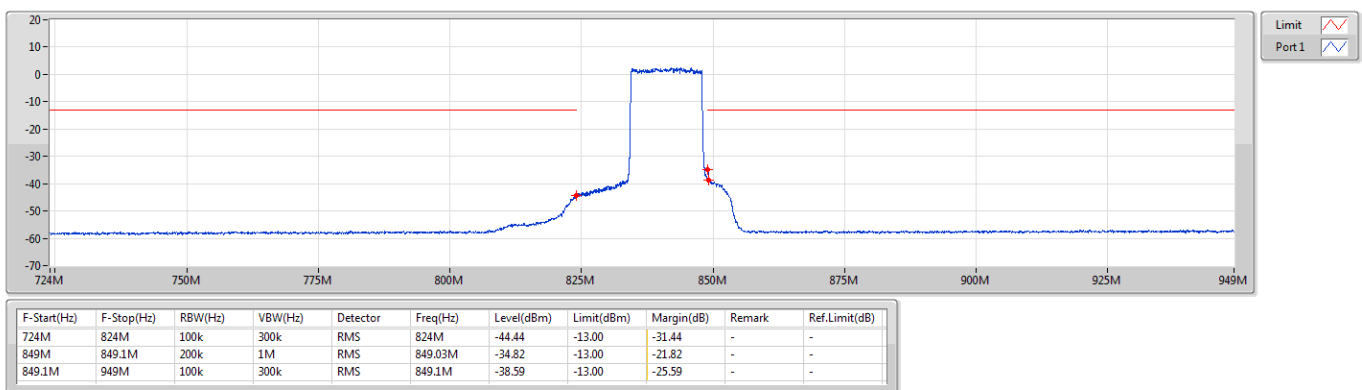
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841.5MHz_DFT-s-OFDM_QPSK_Edge_1RB_Right

CSE-TX-Sum



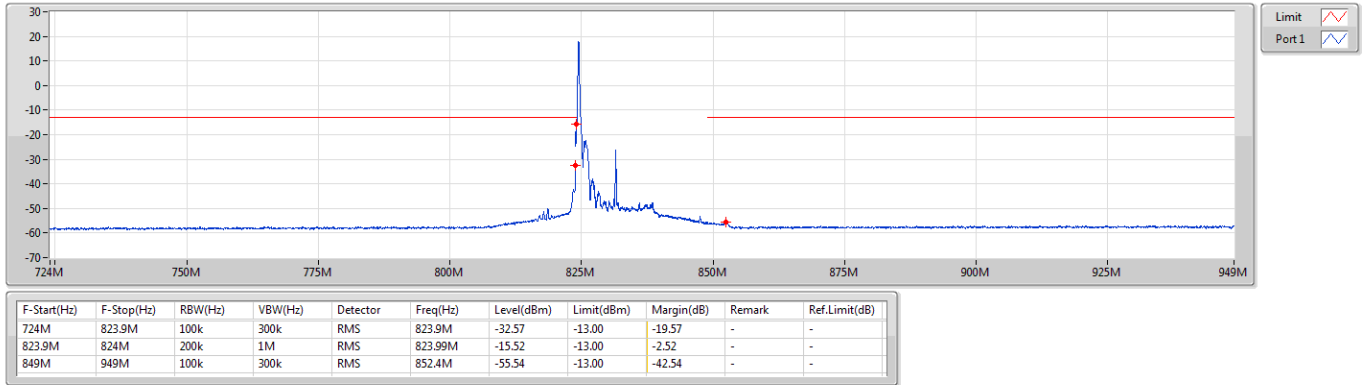
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841.5MHz_DFT-s-OFDM_QPSK_Outer_Full

CSE-TX-Sum



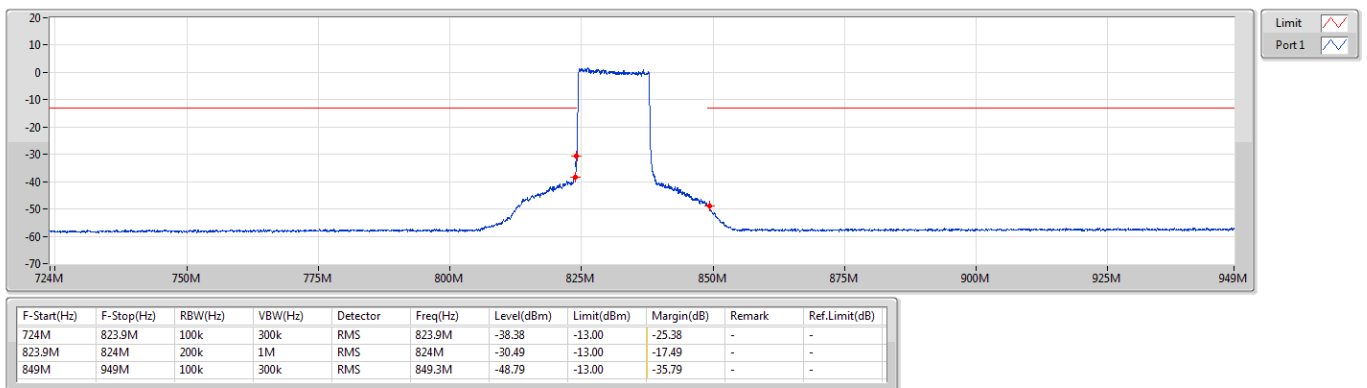
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CSE-TX-Sum



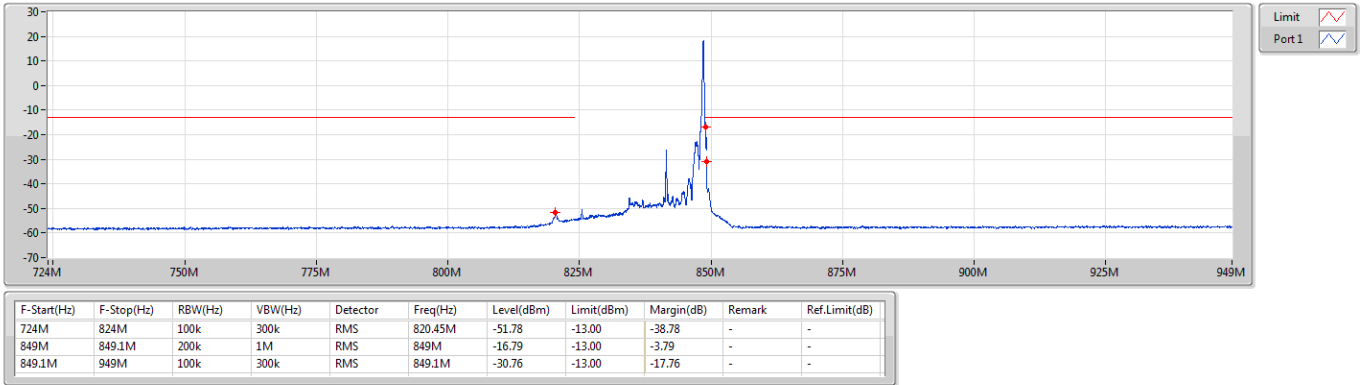
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CSE-TX-Sum



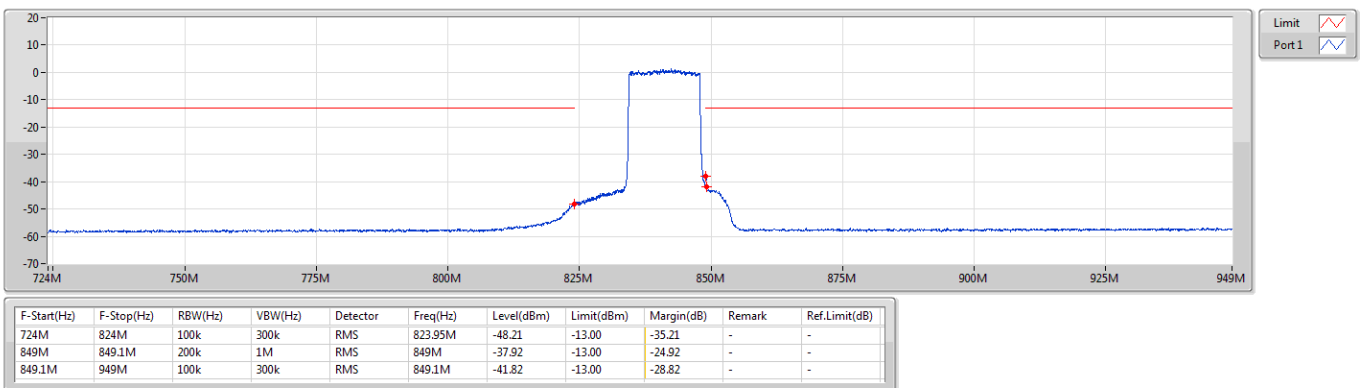
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841.5MHz_DFT-s-OFDM_16QAM_Edge_1RB_Right

CSE-TX-Sum



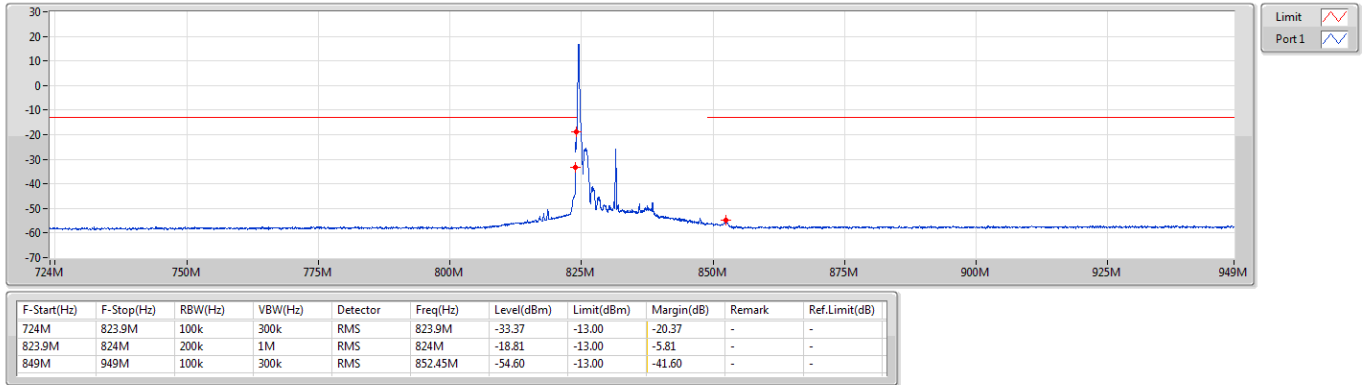
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841.5MHz_DFT-s-OFDM_16QAM_Outer_Full

CSE-TX-Sum



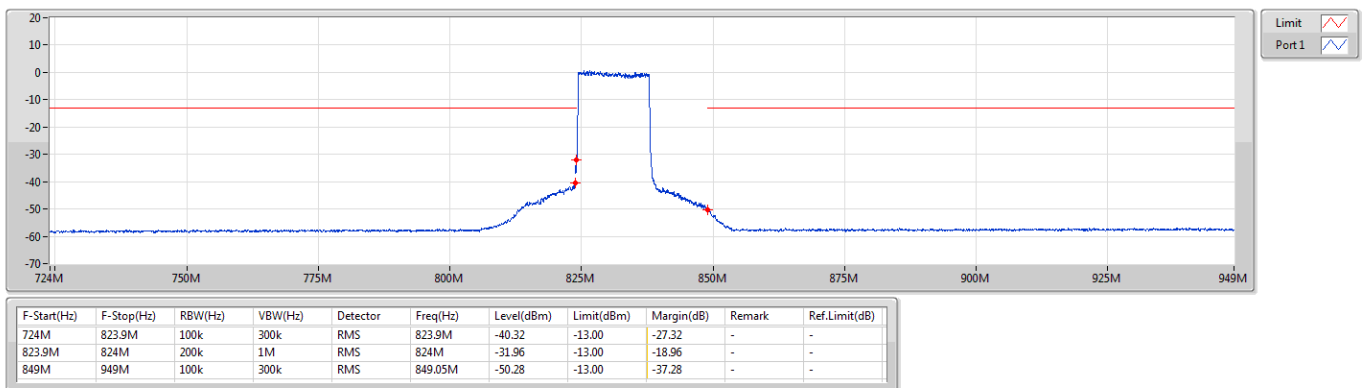
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CSE-TX-Sum



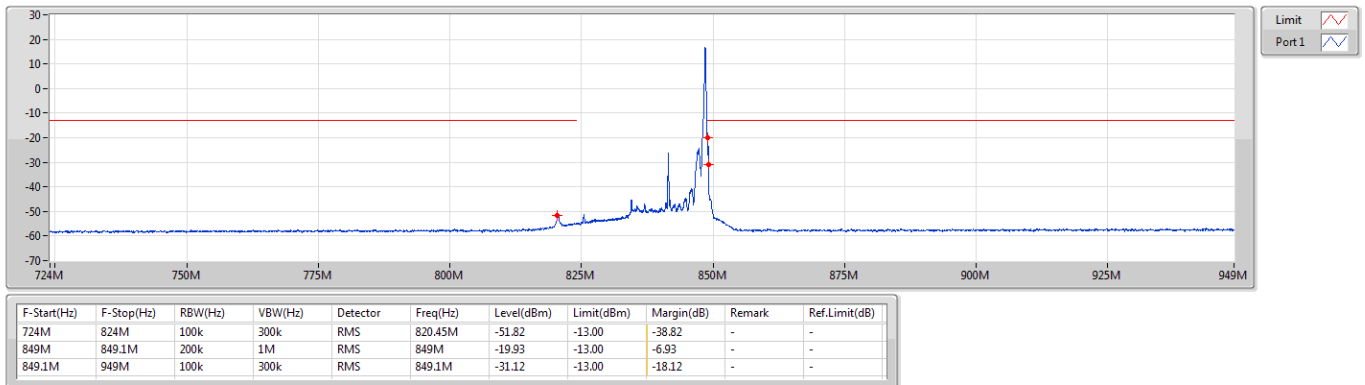
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CSE-TX-Sum



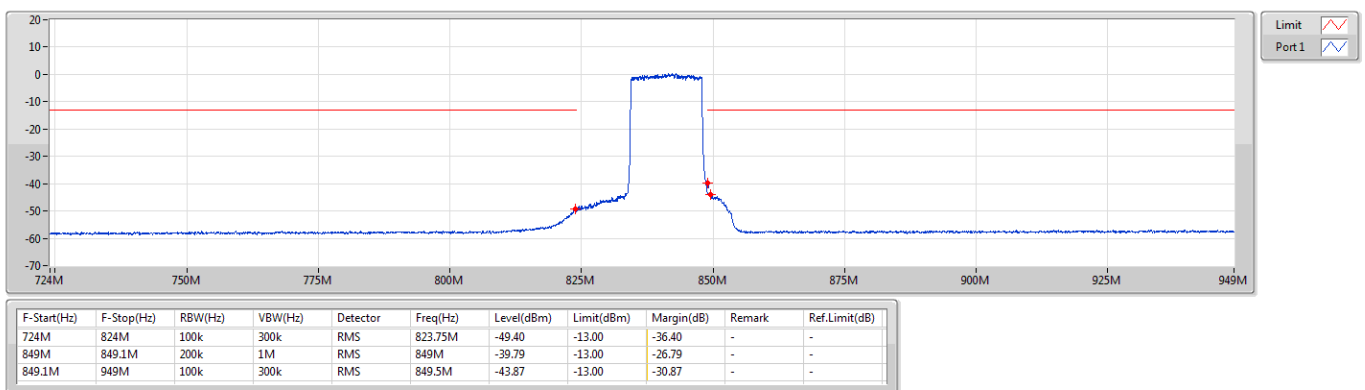
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841.5MHz_DFT-s-OFDM_64QAM_Edge_1RB_Right

CSE-TX-Sum



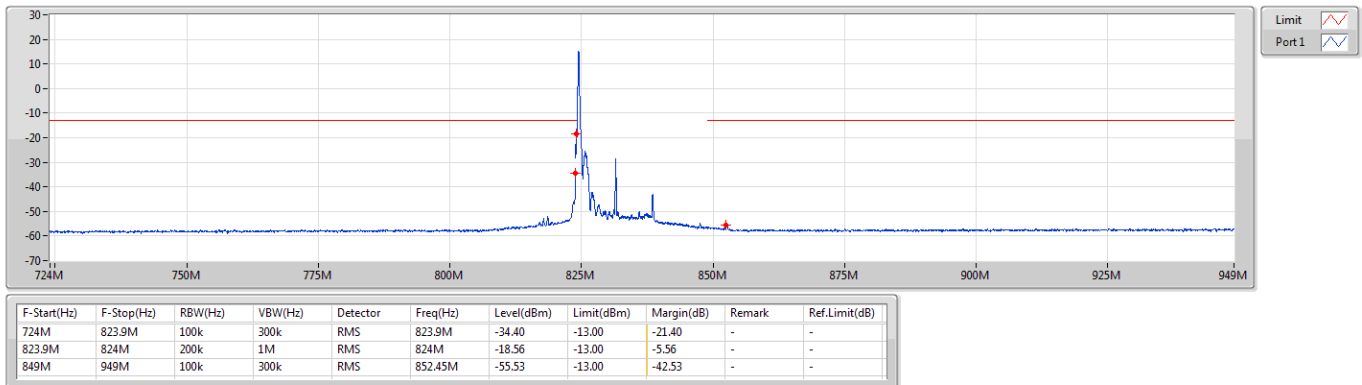
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841.5MHz_DFT-s-OFDM_64QAM_Outer_Full

CSE-TX-Sum



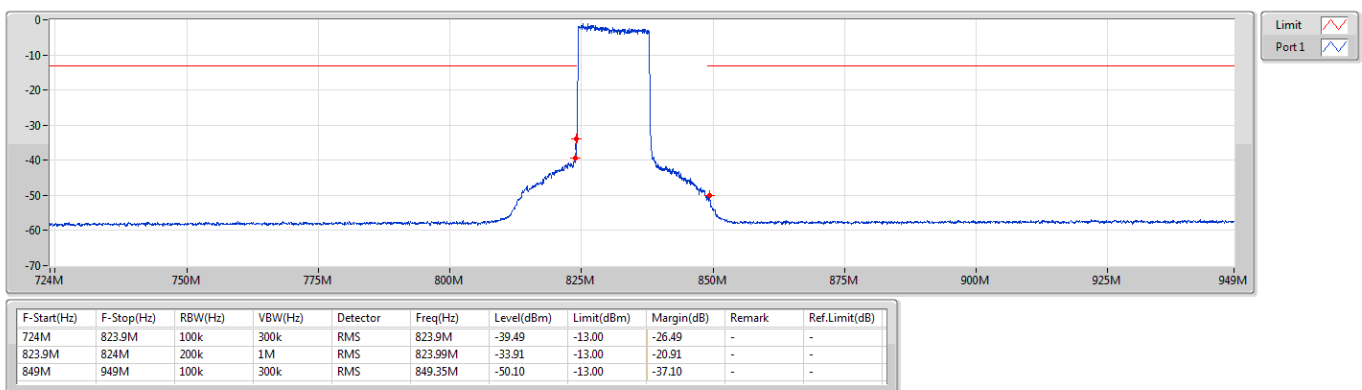
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CSE-TX-Sum



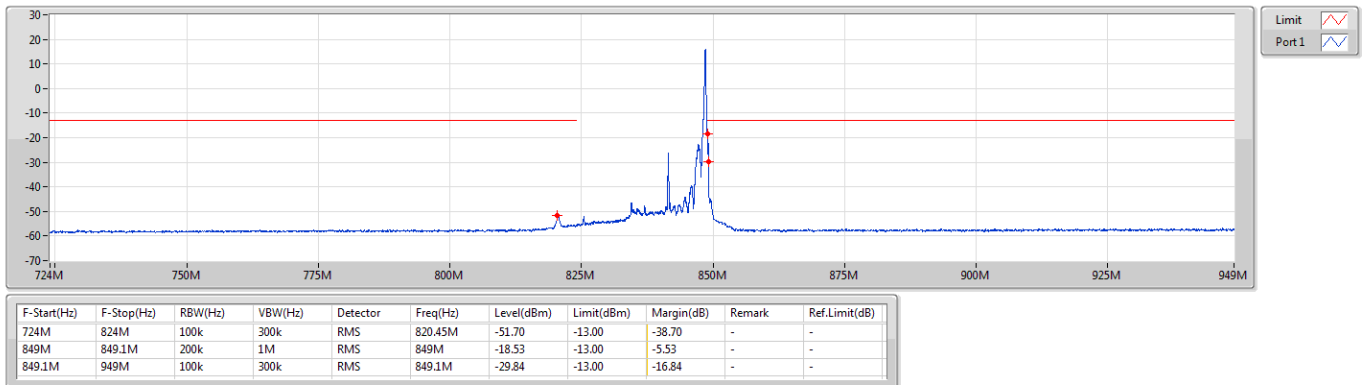
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CSE-TX-Sum



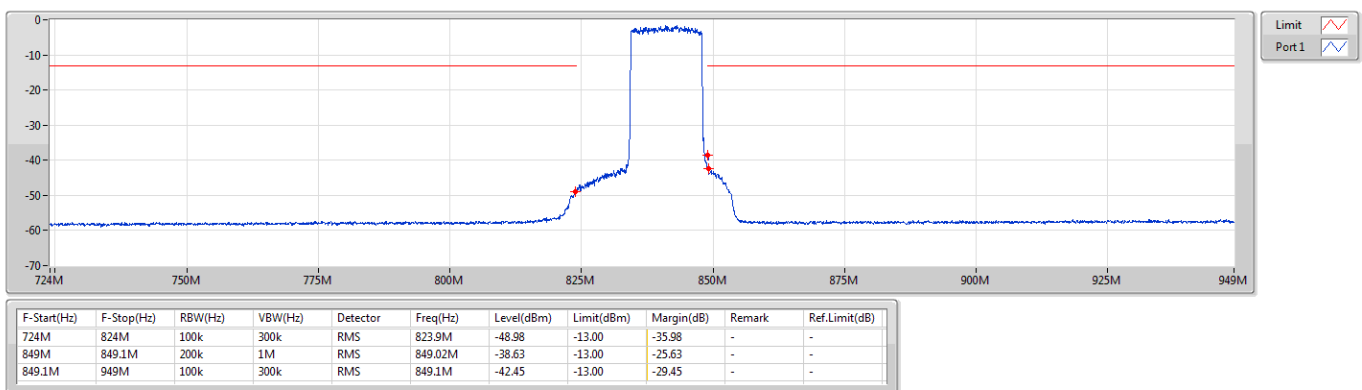
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841.5MHz_DFT-s-OFDM_256QAM_Edge_1RB_Right

CSE-TX-Sum



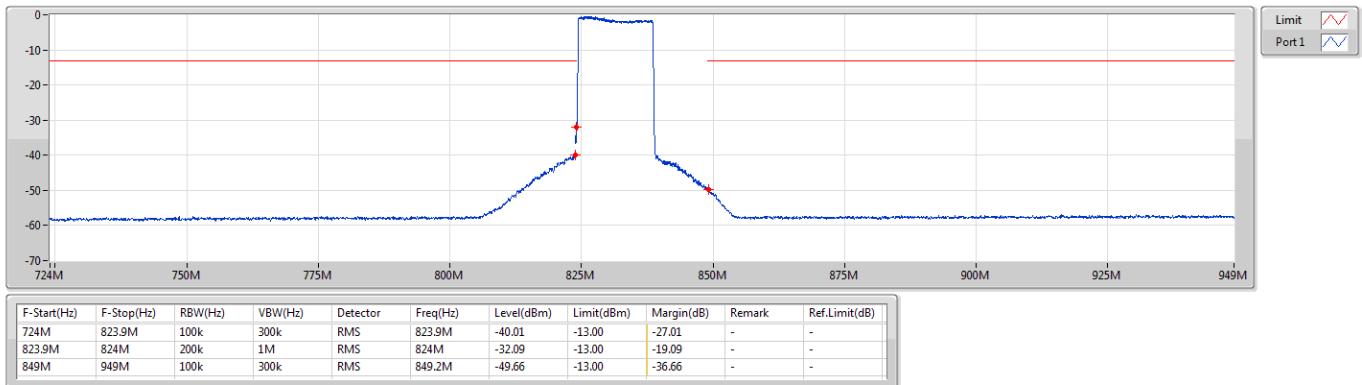
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CSE-TX-Sum



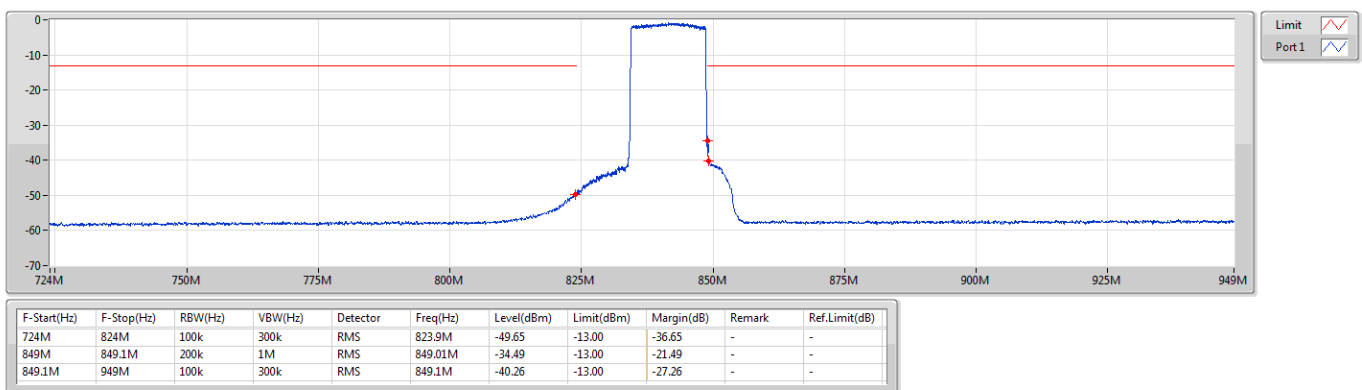
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CSE-TX-Sum



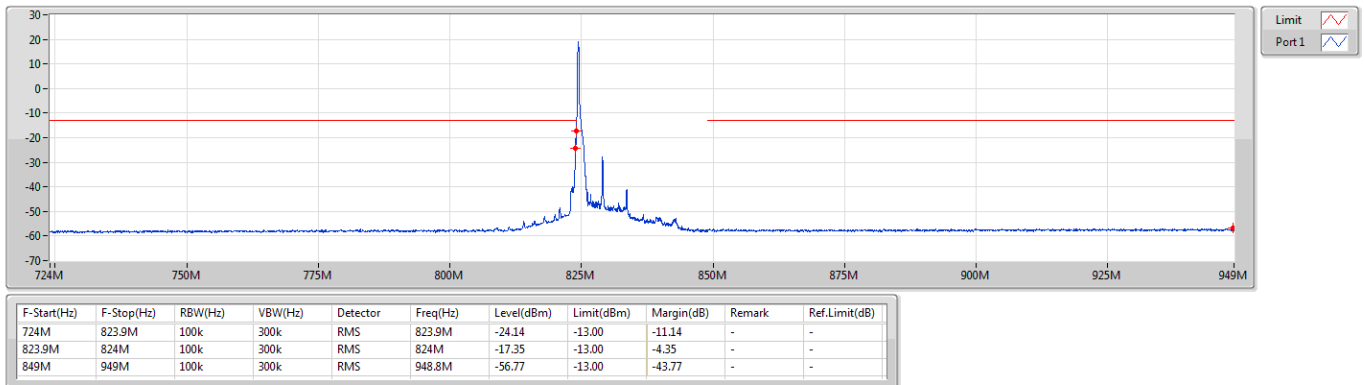
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CSE-TX-Sum



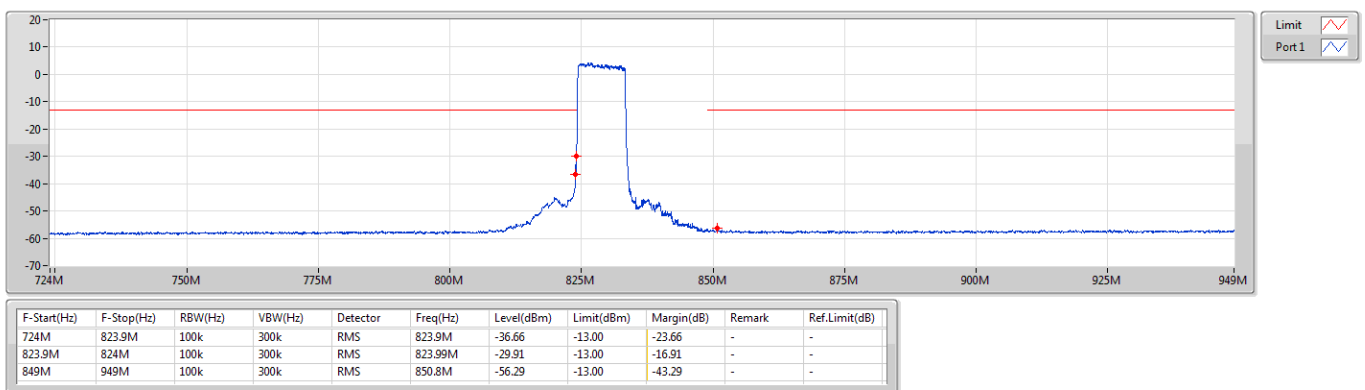
Band n5_NR_10MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
829MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Left

CSE-TX-Sum



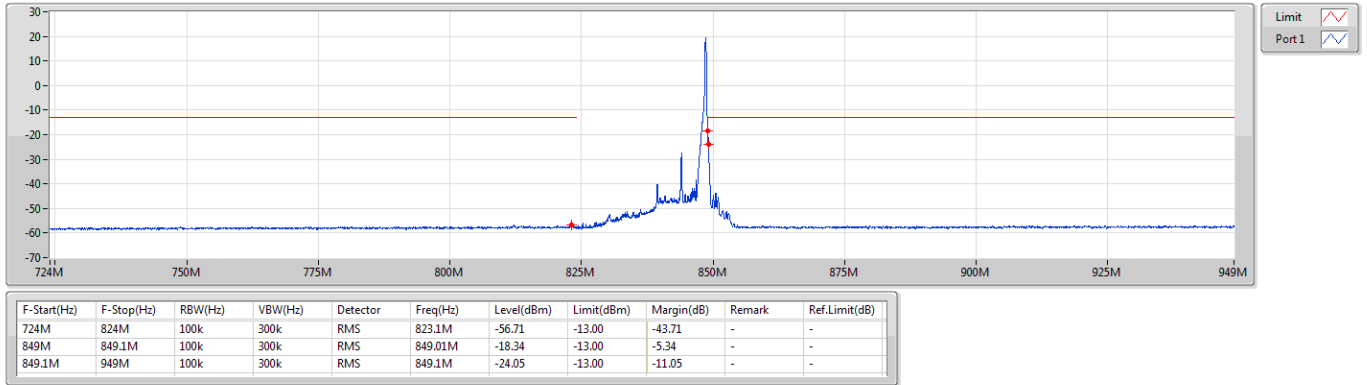
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CSE-TX-Sum



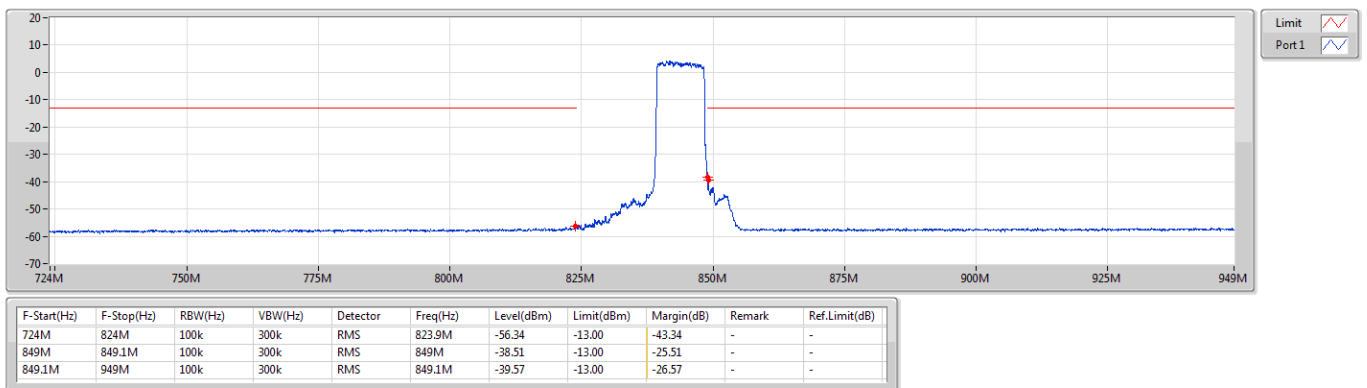
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CSE-TX-Sum



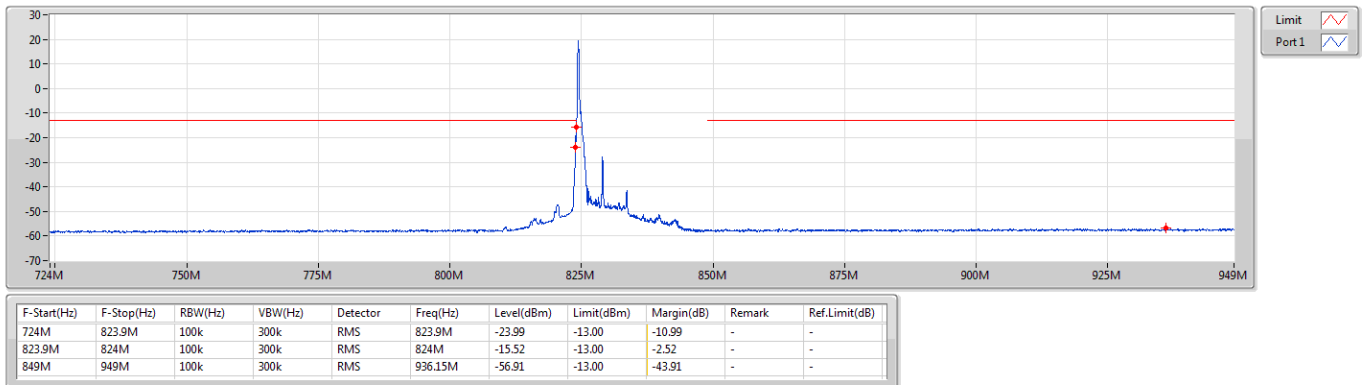
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CSE-TX-Sum



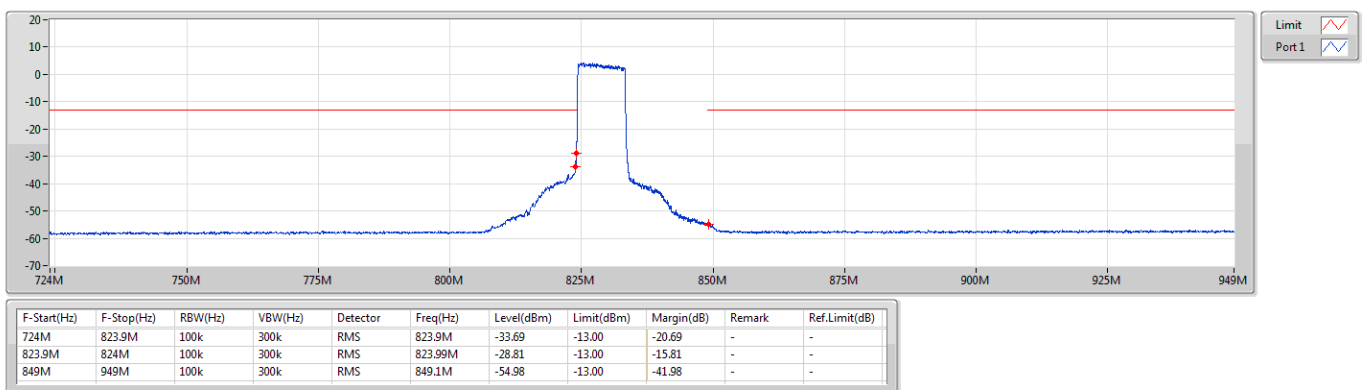
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CSE-TX-Sum



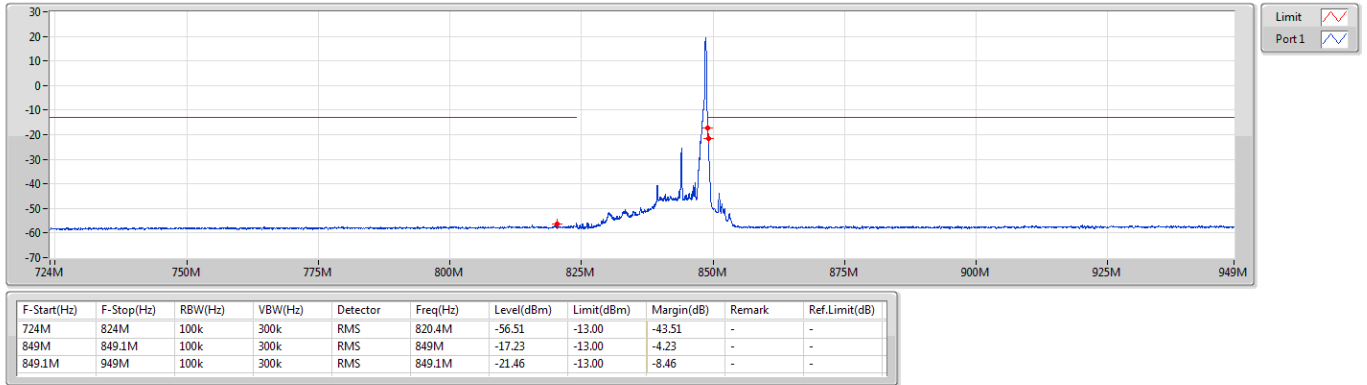
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CSE-TX-Sum



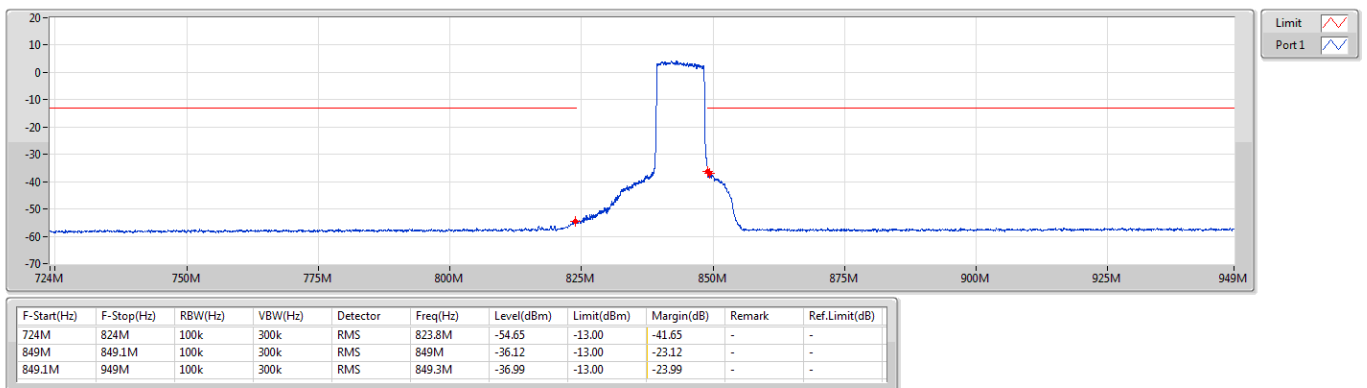
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CSE-TX-Sum



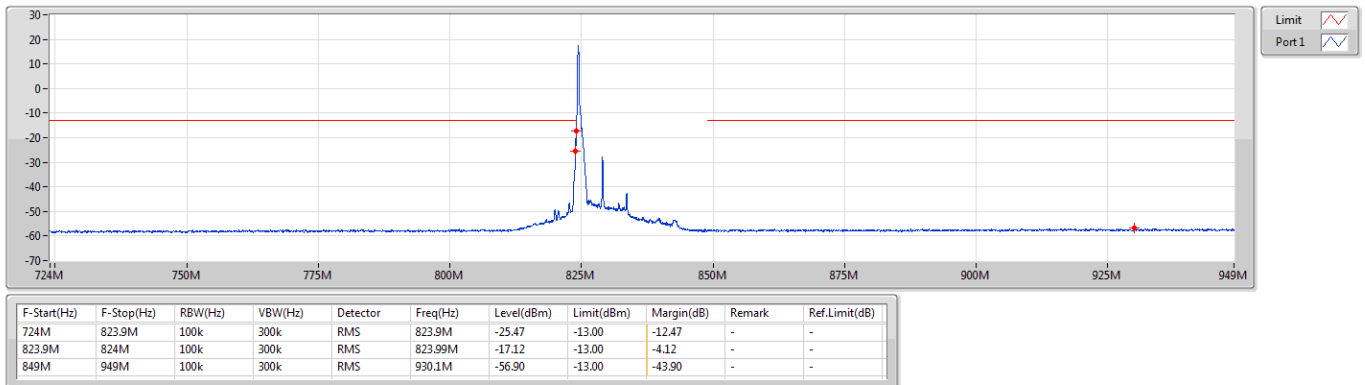
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CSE-TX-Sum



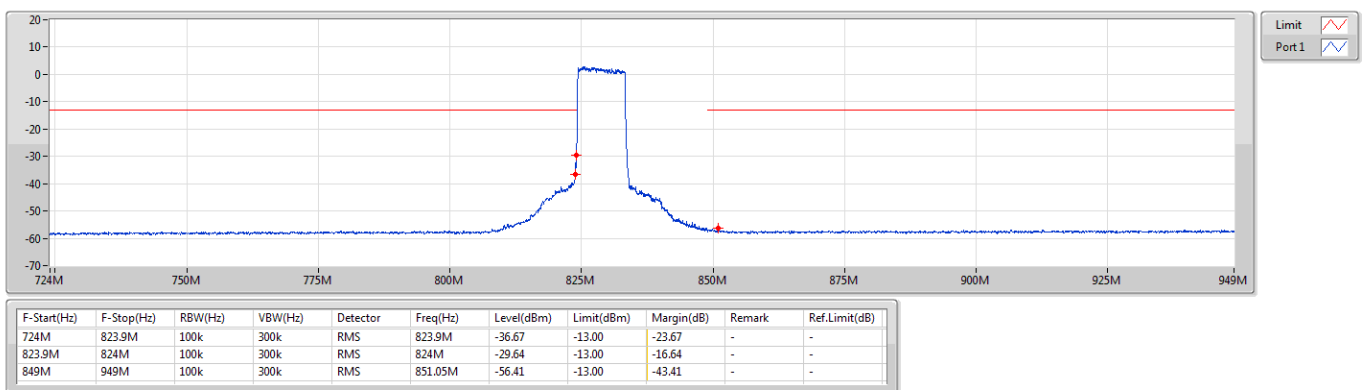
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CSE-TX-Sum



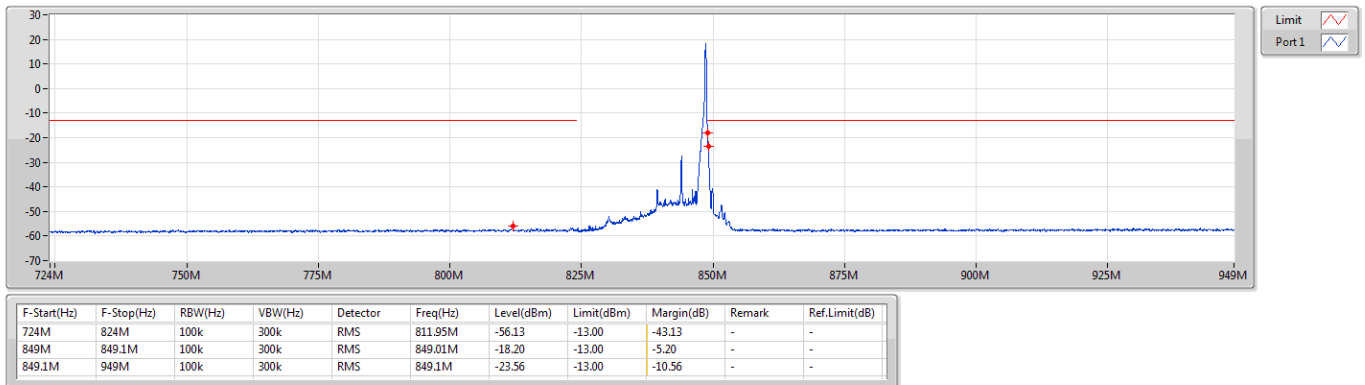
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CSE-TX-Sum



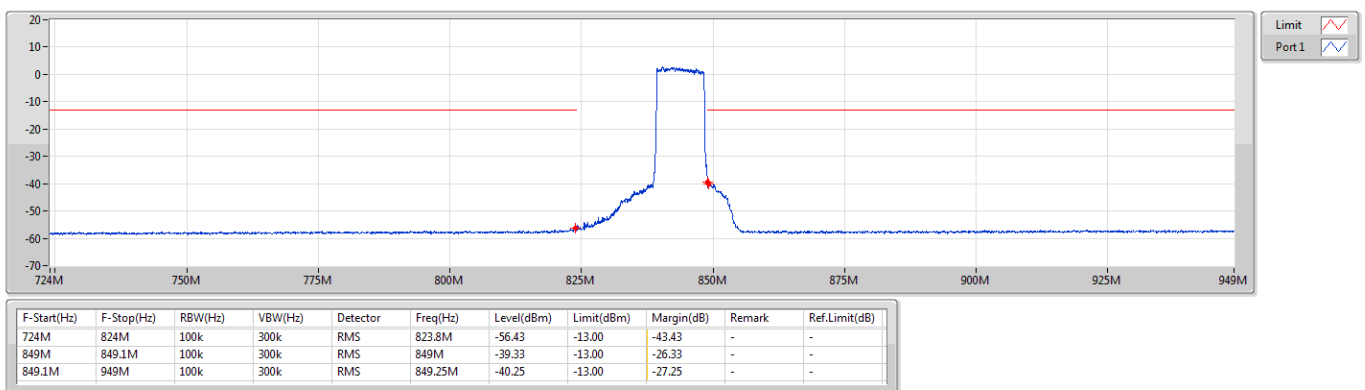
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CSE-TX-Sum



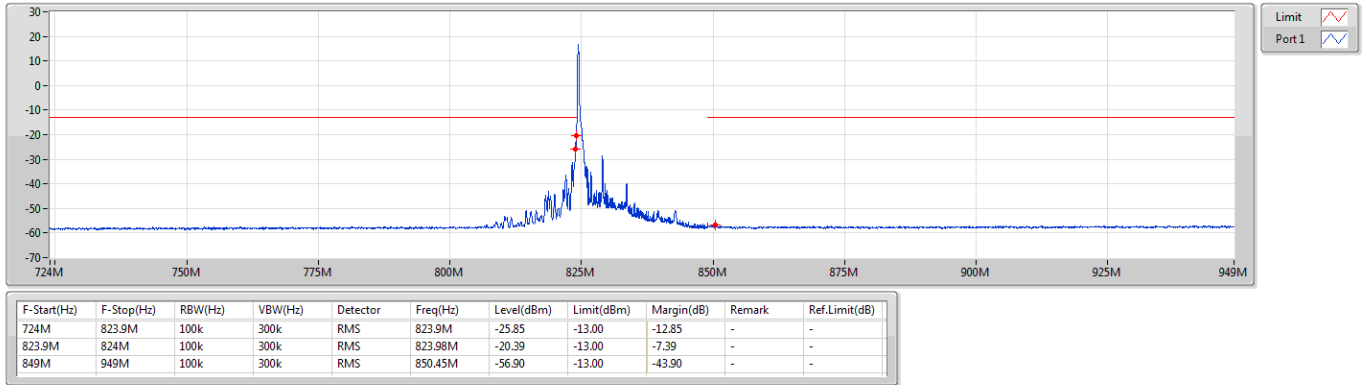
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CSE-TX-Sum



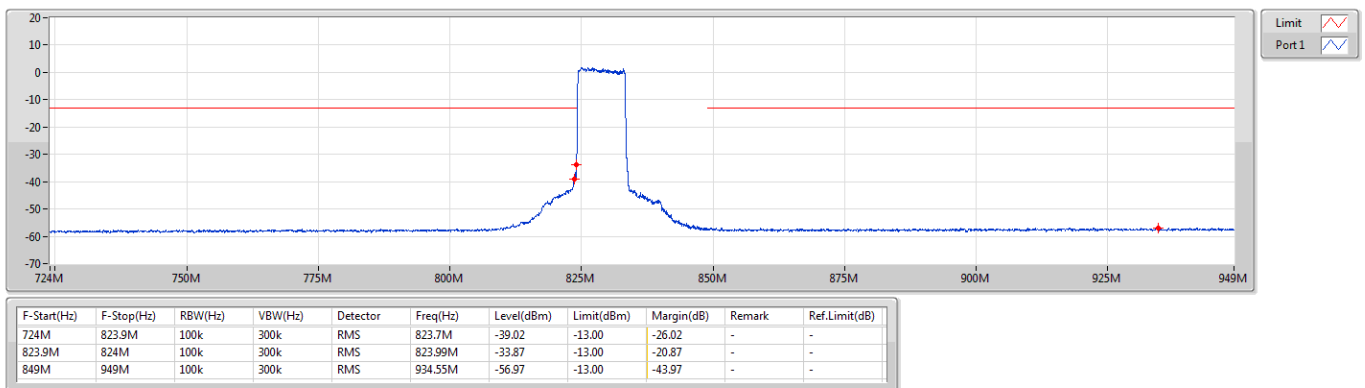
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CSE-TX-Sum



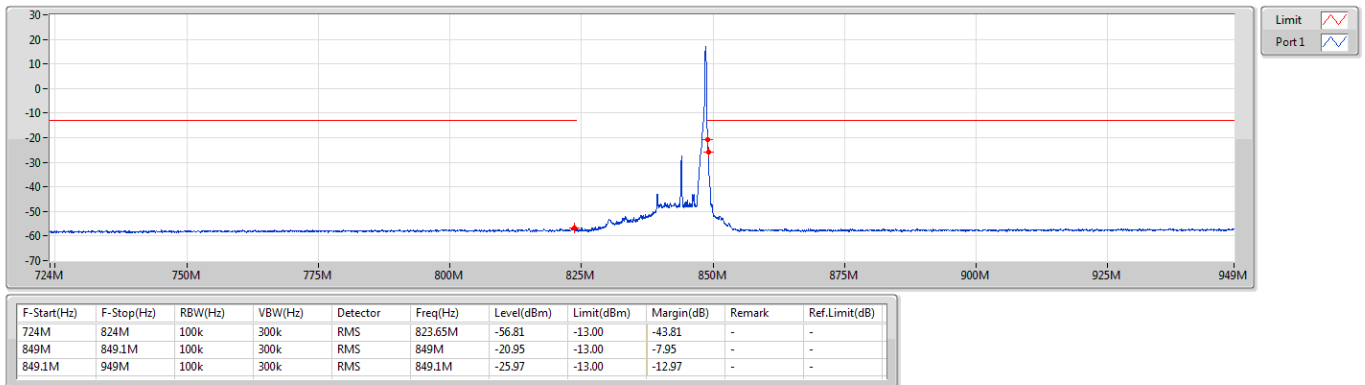
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CSE-TX-Sum



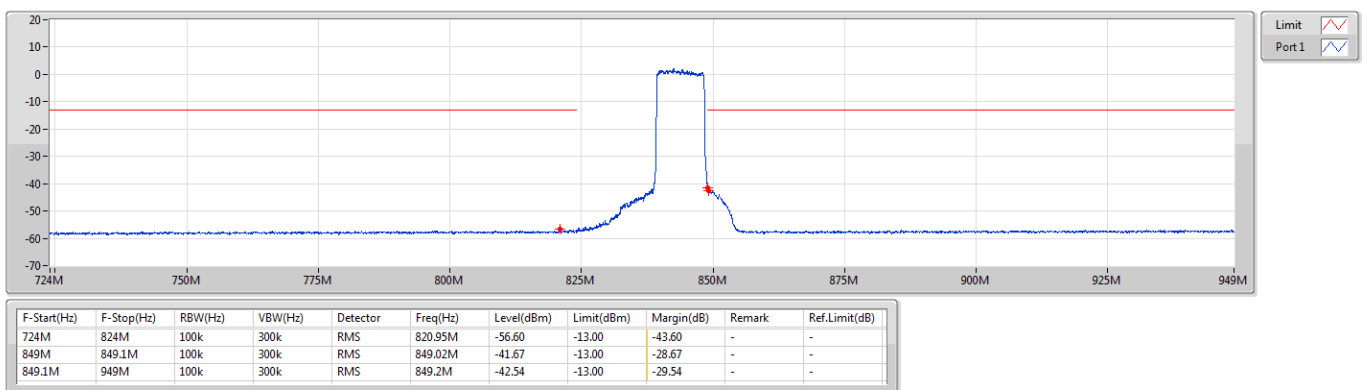
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CSE-TX-Sum



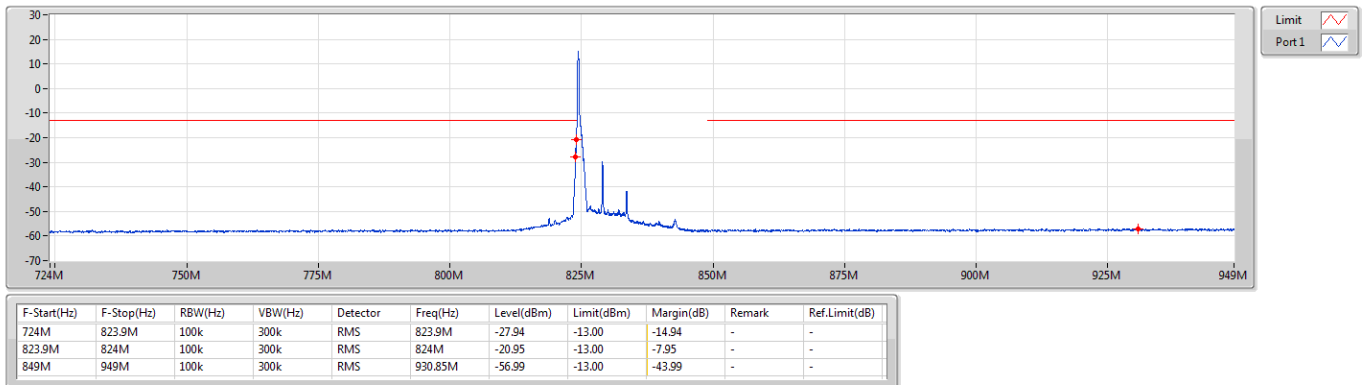
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CSE-TX-Sum



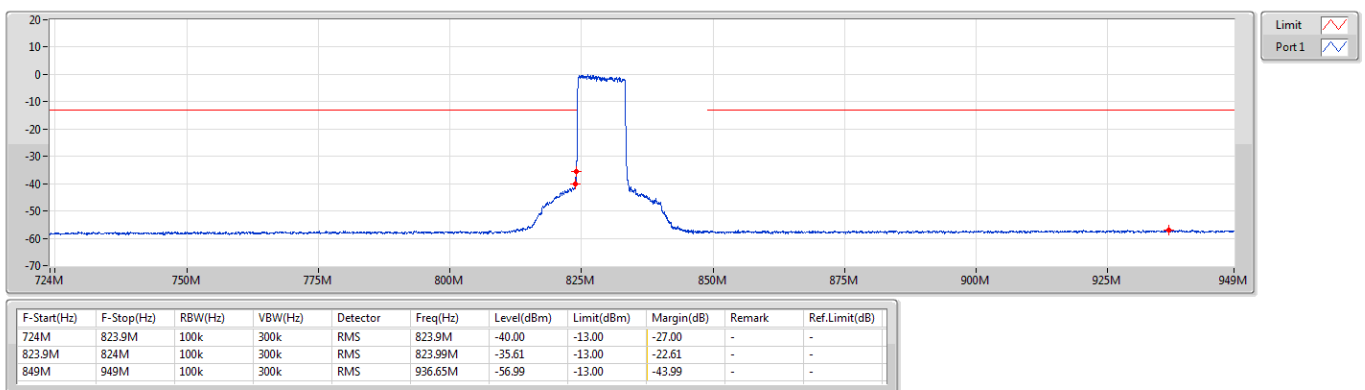
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CSE-TX-Sum



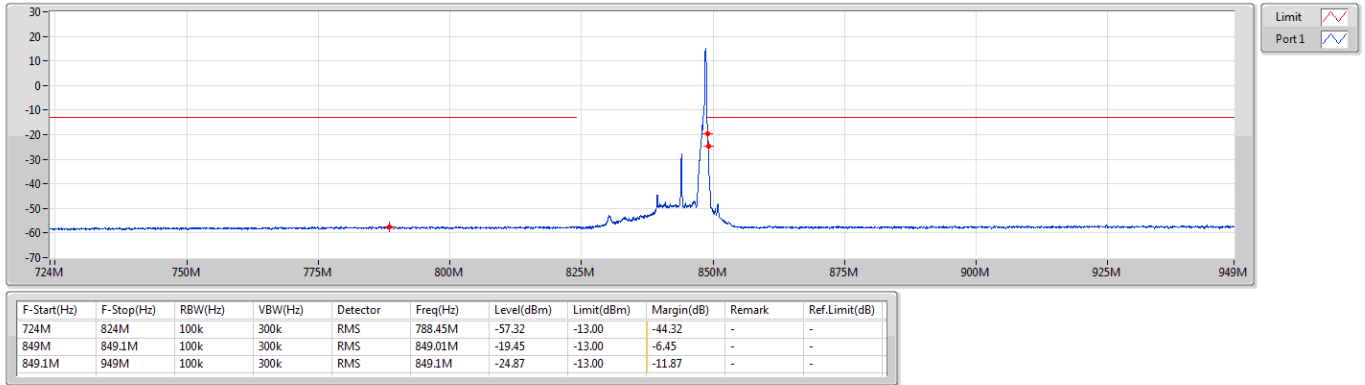
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CSE-TX-Sum



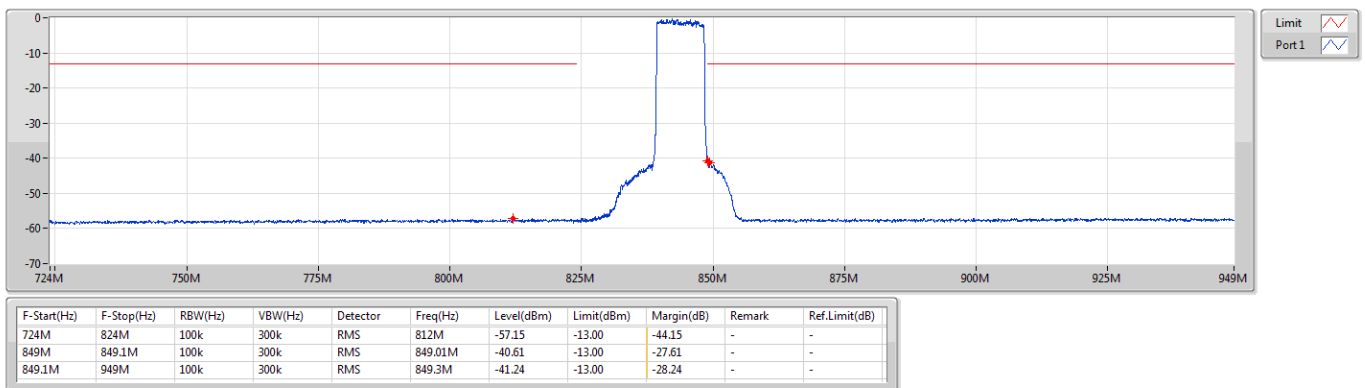
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CSE-TX-Sum



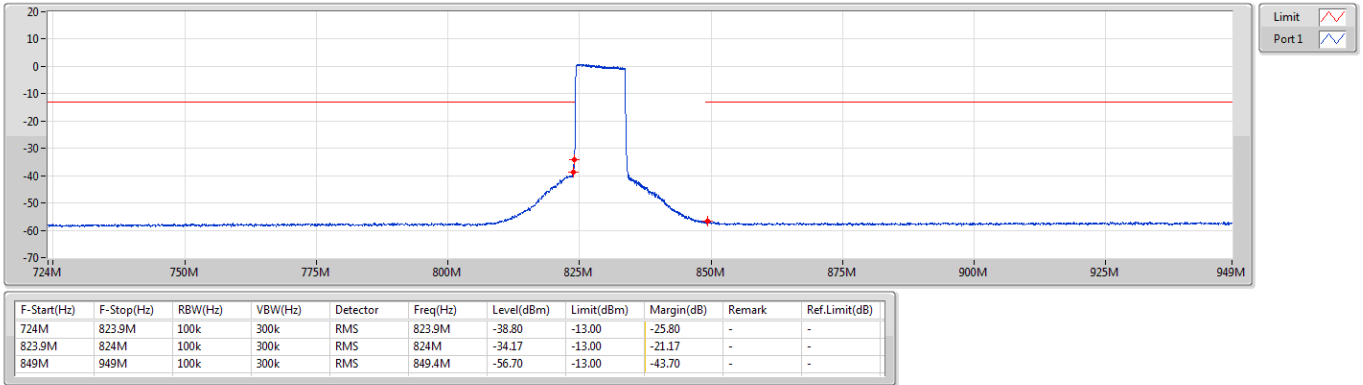
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CSE-TX-Sum



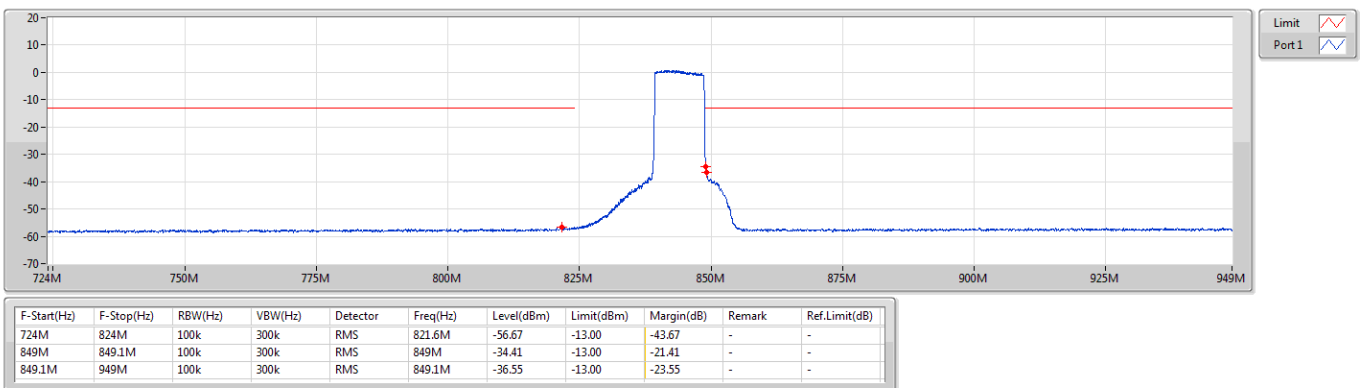
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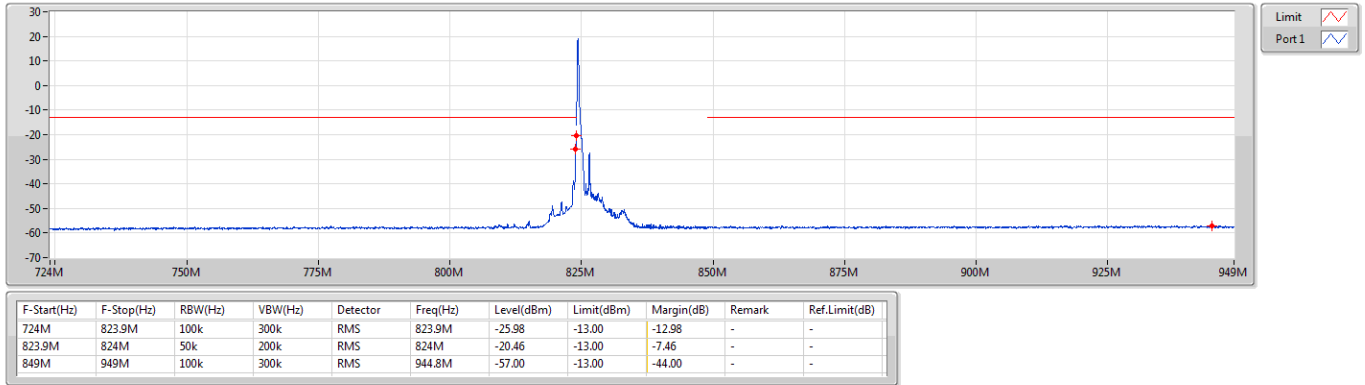
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CSE-TX-Sum



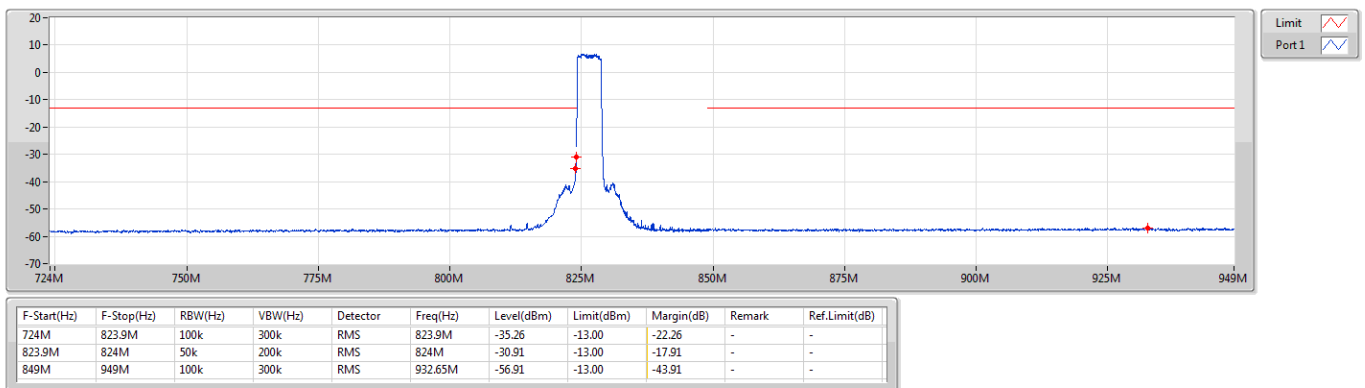
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
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CSE-TX-Sum



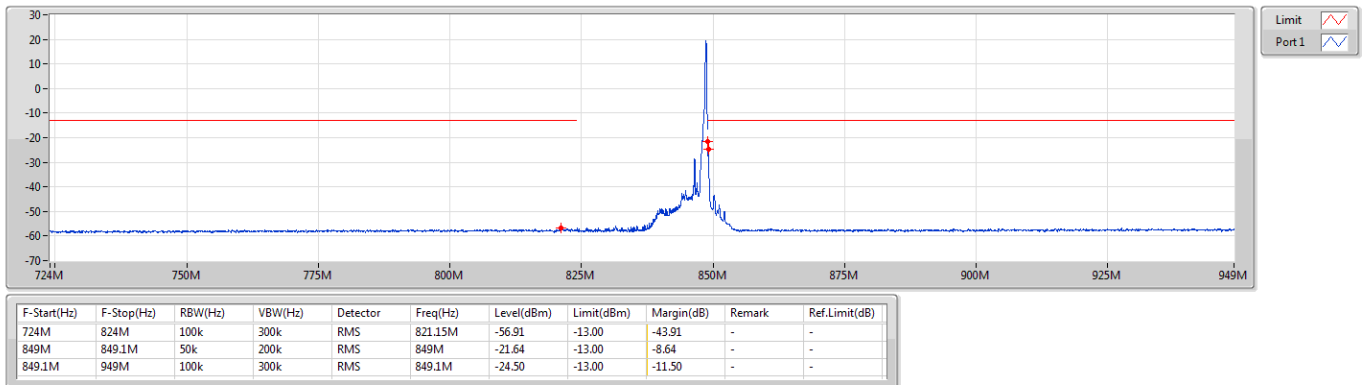
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
826.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full

CSE-TX-Sum



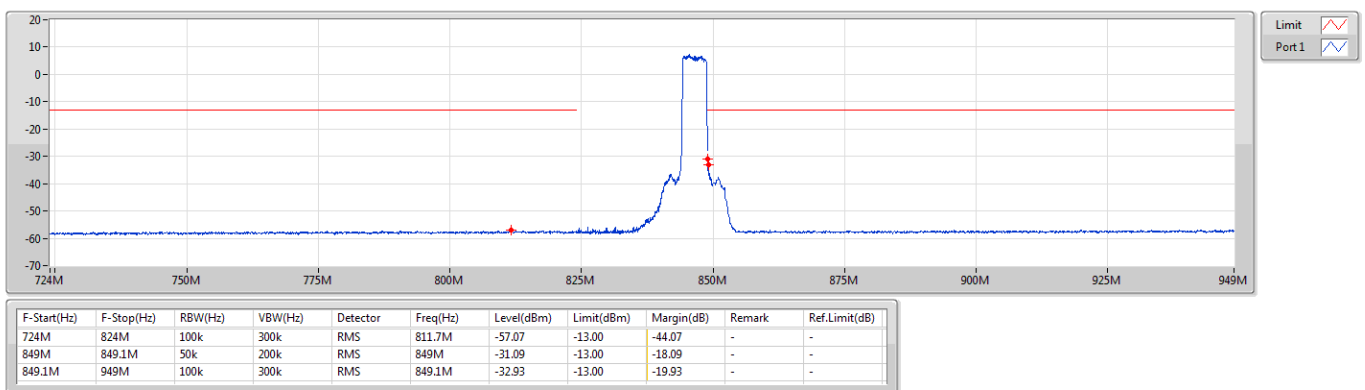
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
846.5MHz_DFT-s-OFDM_PI2BPSK_Edge_1RB_Right

CSE-TX-Sum



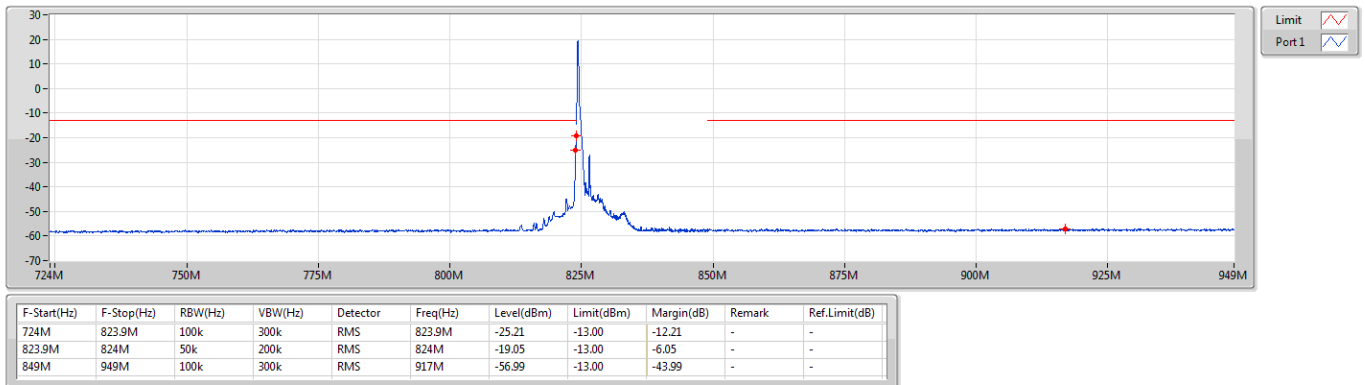
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CSE-TX-Sum



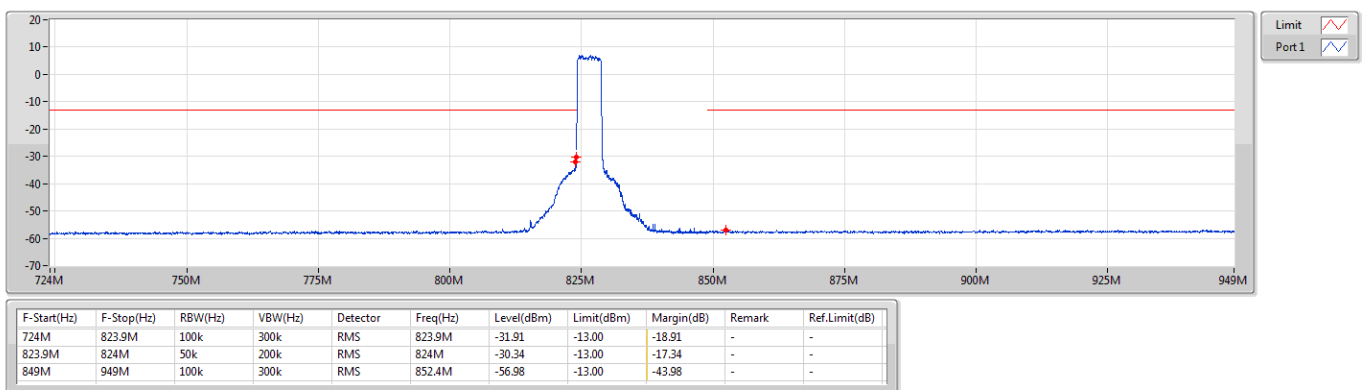
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CSE-TX-Sum



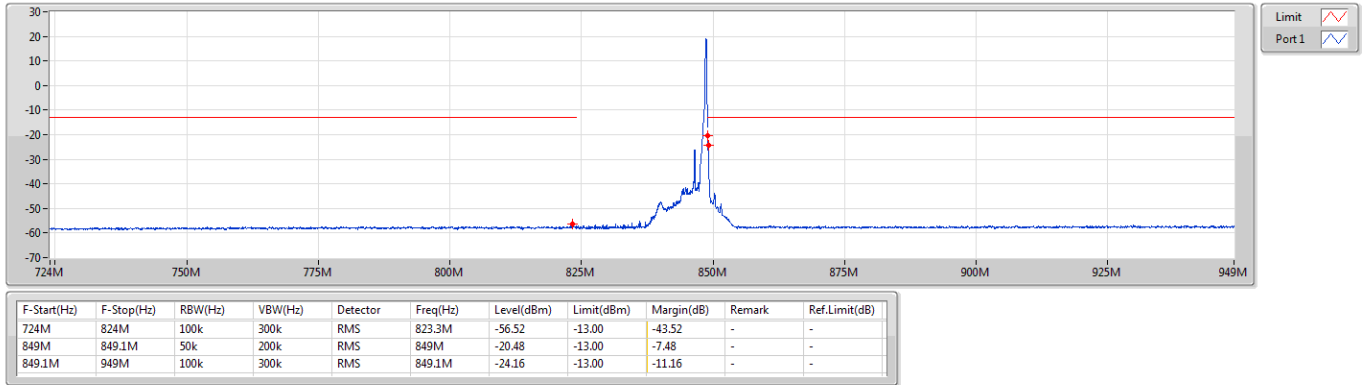
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826.5MHz_DFT-s-OFDM_QPSK_Outer_Full

CSE-TX-Sum



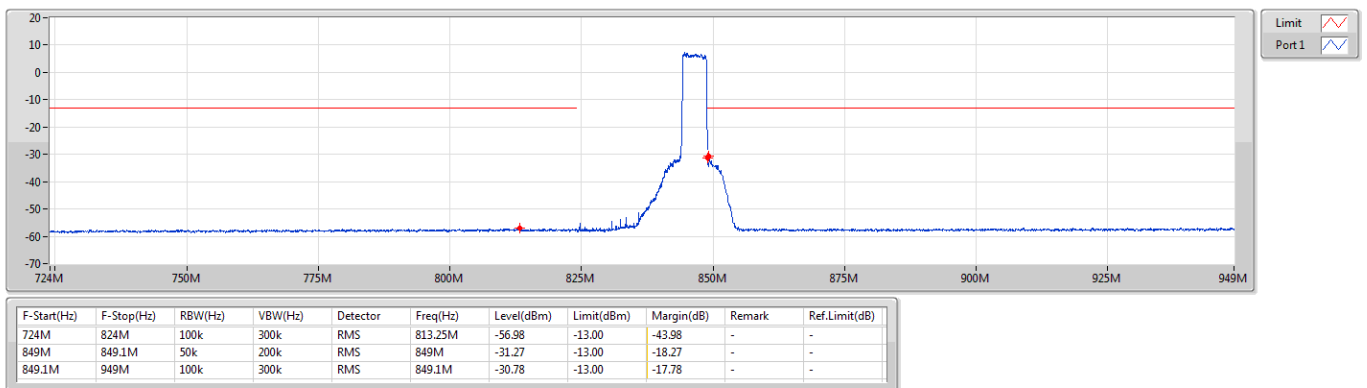
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846.5MHz_DFT-s-OFDM_QPSK_Edge_1RB_Right

CSE-TX-Sum



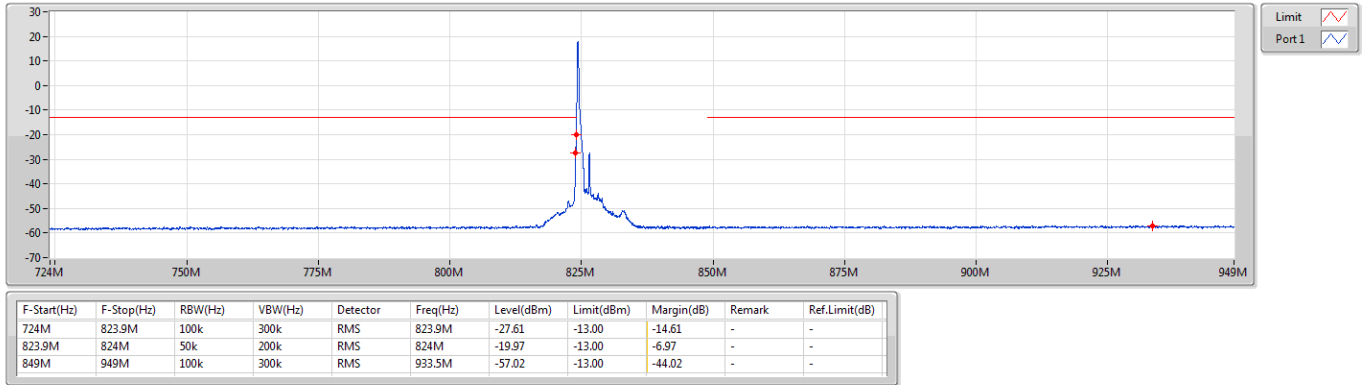
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846.5MHz_DFT-s-OFDM_QPSK_Outer_Full

CSE-TX-Sum



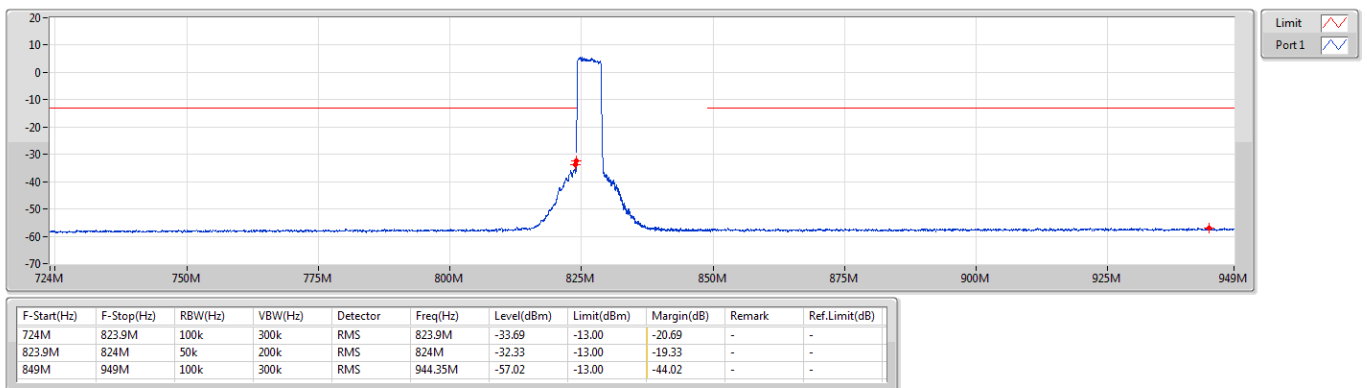
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_16QAM_1TX
826.5MHz_DFT-s-OFDM_16QAM_Edge_1RB_Left

CSE-TX-Sum



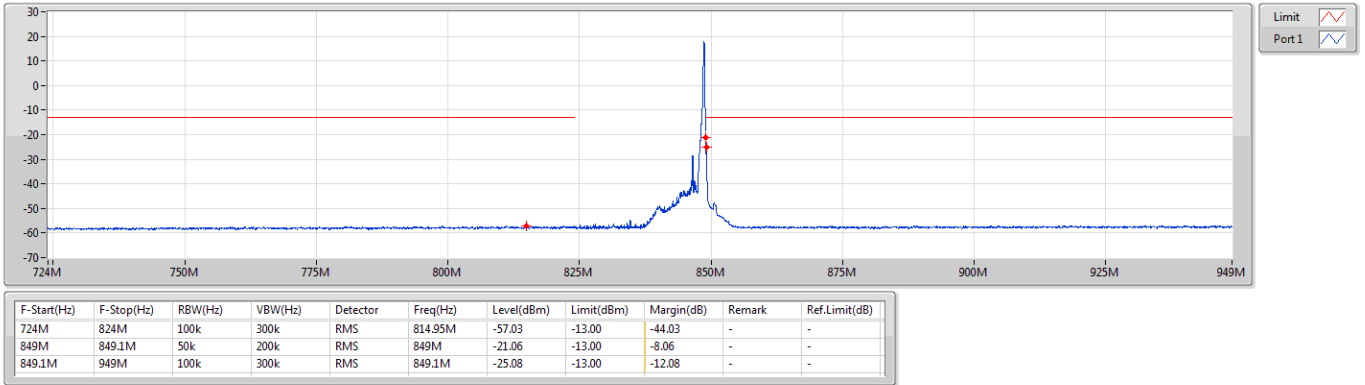
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826.5MHz_DFT-s-OFDM_16QAM_Outer_Full

CSE-TX-Sum



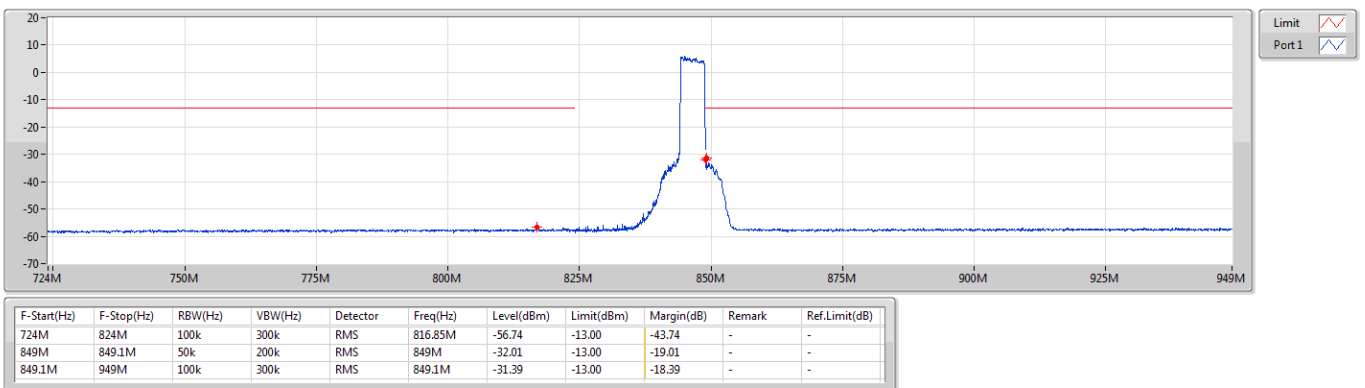
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846.5MHz_DFT-s-OFDM_16QAM_Edge_1RB_Right

CSE-TX-Sum



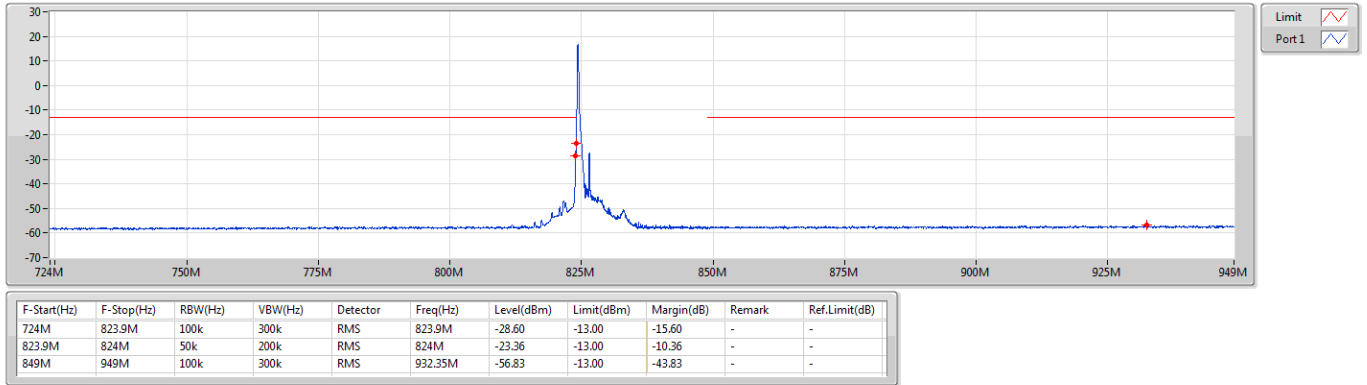
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846.5MHz_DFT-s-OFDM_16QAM_Outer_Full

CSE-TX-Sum



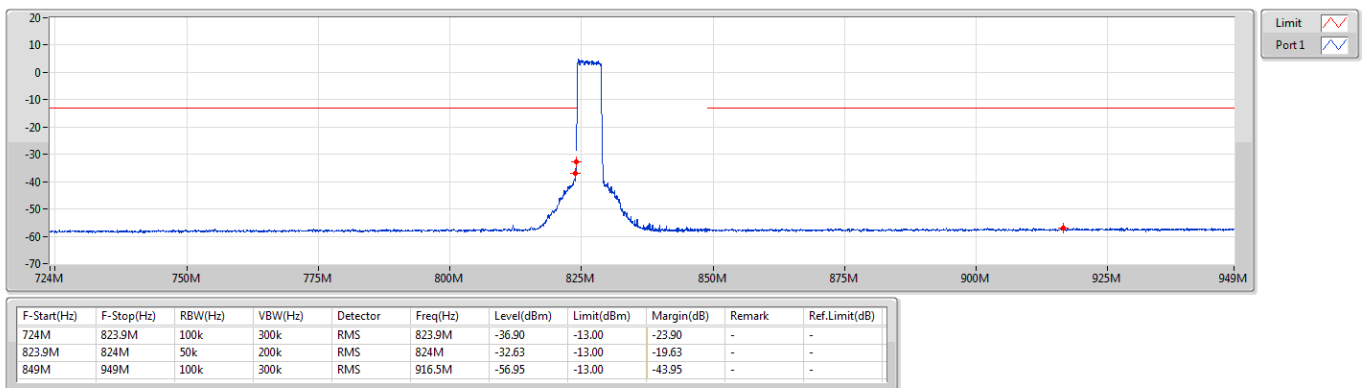
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826.5MHz_DFT-s-OFDM_64QAM_Edge_1RB_Left

CSE-TX-Sum



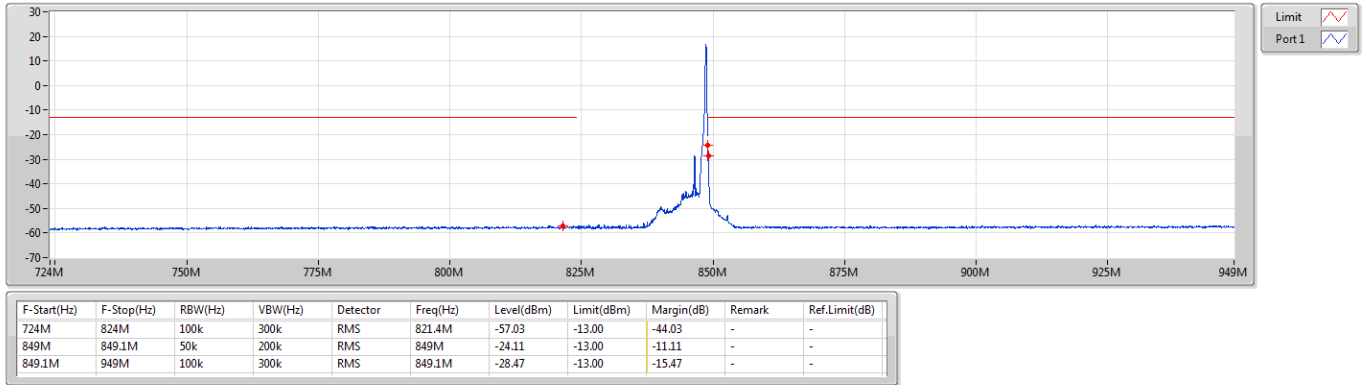
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CSE-TX-Sum



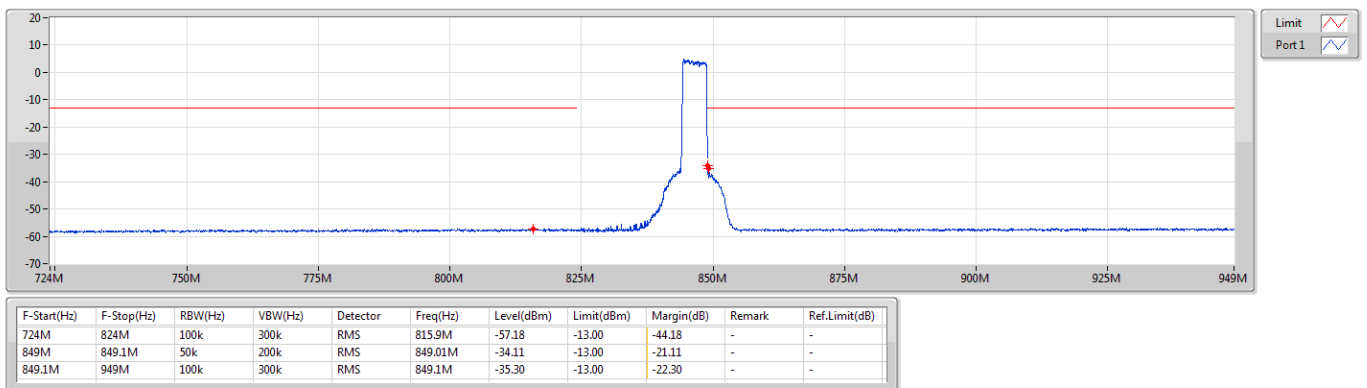
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846.5MHz_DFT-s-OFDM_64QAM_Edge_1RB_Right

CSE-TX-Sum



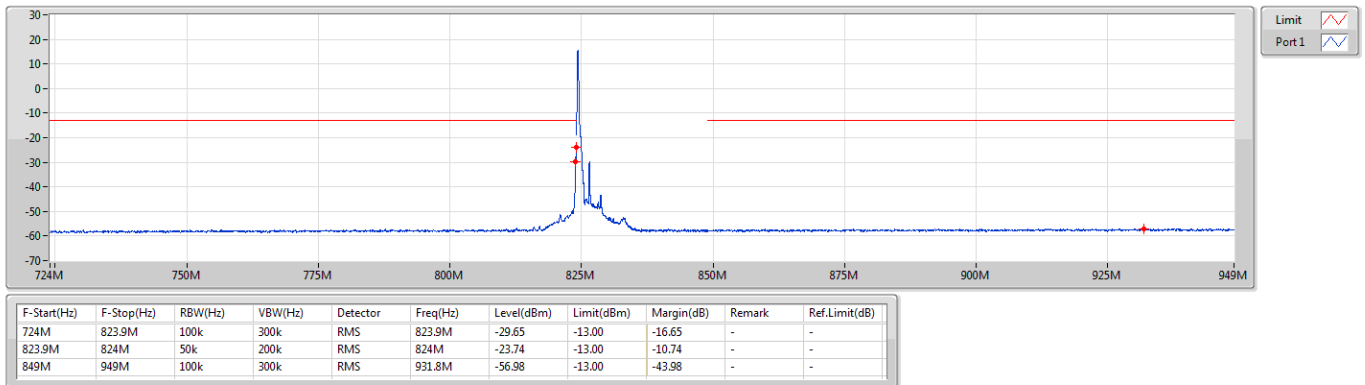
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846.5MHz_DFT-s-OFDM_64QAM_Outer_Full

CSE-TX-Sum



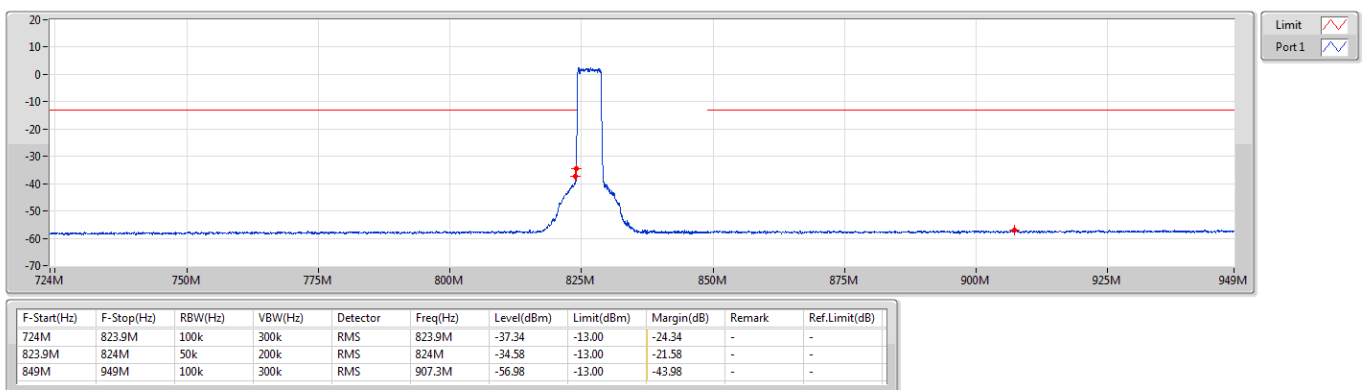
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CSE-TX-Sum



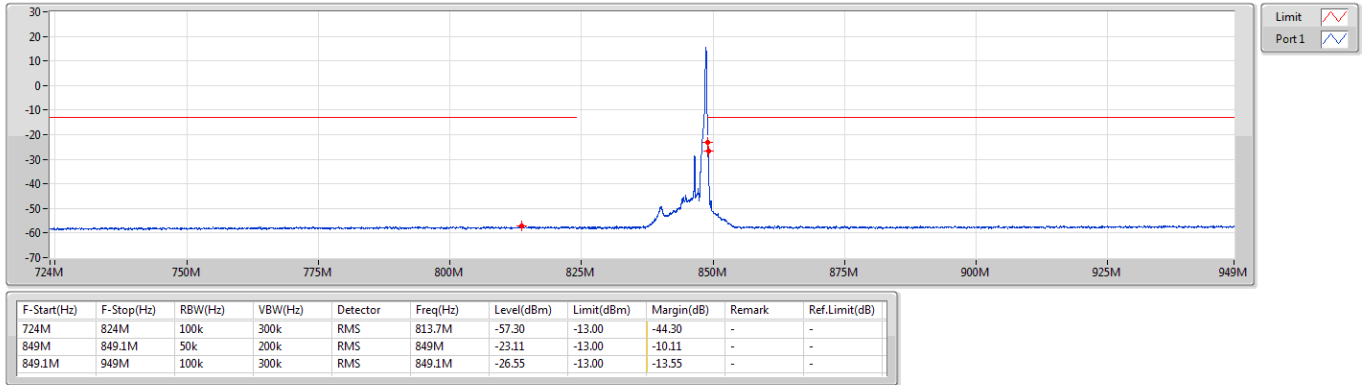
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826.5MHz_DFT-s-OFDM_256QAM_Outer_Full

CSE-TX-Sum



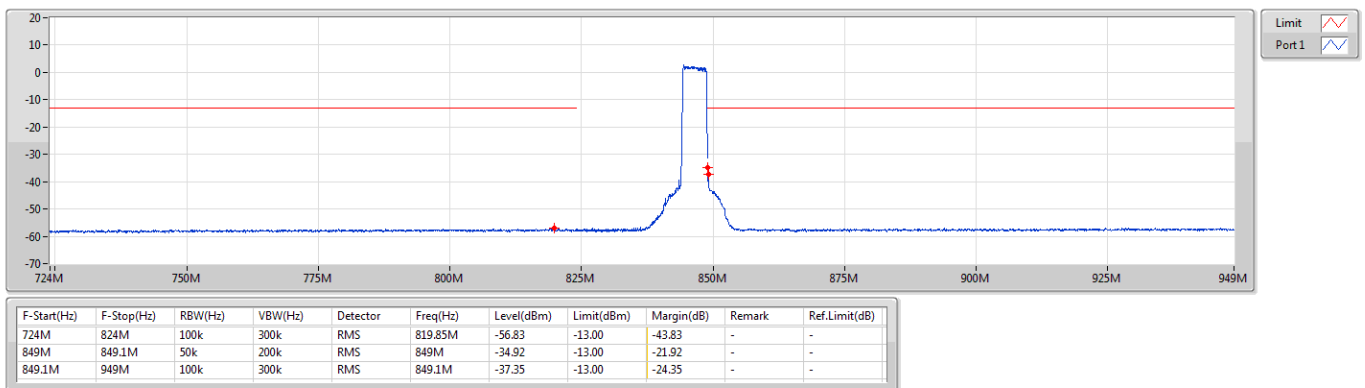
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_256QAM_1TX
846.5MHz_DFT-s-OFDM_256QAM_Edge_1RB_Right

CSE-TX-Sum



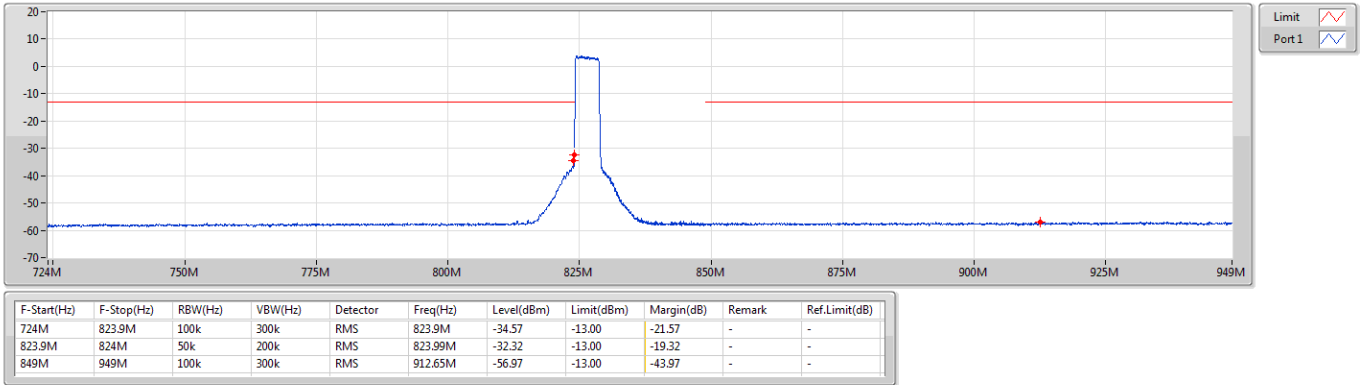
Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_256QAM_1TX
846.5MHz_DFT-s-OFDM_256QAM_Outer_Full

CSE-TX-Sum



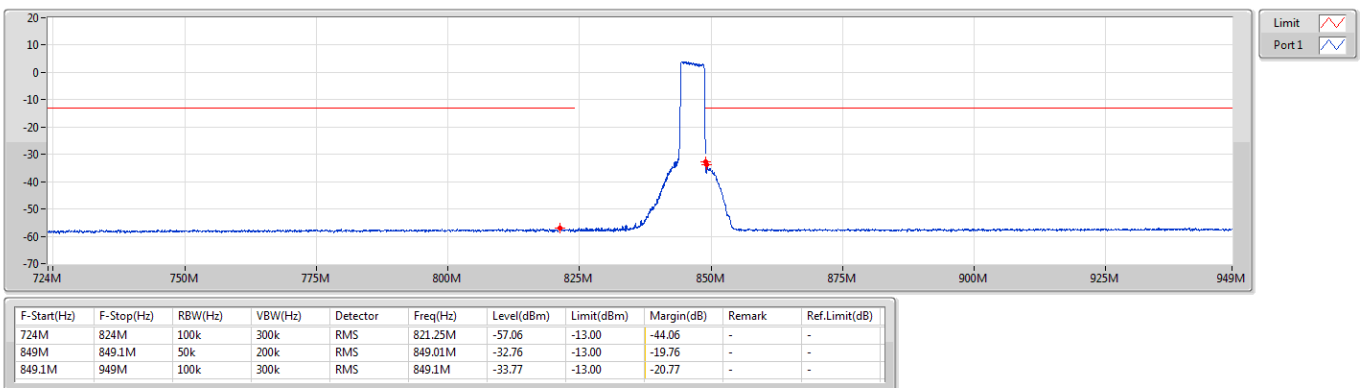
Band n5_NR_5MHz_Nss1,CP-OFMbpsMCS_QPSK_1TX
826.5MHz_CP-OFDM_QPSK_Outer_Full

CSE-TX-Sum



Band n5_NR_5MHz_Nss1,CP-OFMbpsMCS_QPSK_1TX
846.5MHz_CP-OFDM_QPSK_Outer_Full

CSE-TX-Sum



Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band n5	-	-	-	-	-
NR_20MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	18.95M	17.891M	17M9G7D	18.95M	17.891M
NR_20MHz_Nss1,CP-OFDM_QPSK_1TX	19.875M	18.891M	18M9G7D	19.875M	18.891M
NR_20MHz_Nss1,CP-OFDM_16QAM_1TX	19.85M	18.941M	18M9W7D	19.85M	18.941M
NR_20MHz_Nss1,CP-OFDM_64QAM_1TX	19.975M	18.916M	18M9W7D	19.975M	18.916M
NR_20MHz_Nss1,CP-OFDM_256QAM_1TX	19.95M	18.941M	18M9W7D	19.95M	18.941M
NR_15MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	14.269M	13.456M	13M5G7D	14.269M	13.456M
NR_15MHz_Nss1,CP-OFDM_QPSK_1TX	14.869M	14.112M	14M1G7D	14.869M	14.112M
NR_15MHz_Nss1,CP-OFDM_16QAM_1TX	14.794M	14.074M	14M1W7D	14.794M	14.074M
NR_15MHz_Nss1,CP-OFDM_64QAM_1TX	14.869M	14.112M	14M1W7D	14.869M	14.112M
NR_15MHz_Nss1,CP-OFDM_256QAM_1TX	14.85M	14.112M	14M1W7D	14.85M	14.112M
NR_10MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	9.575M	8.933M	8M93G7D	9.575M	8.933M
NR_10MHz_Nss1,CP-OFDM_QPSK_1TX	9.875M	9.27M	9M27G7D	9.875M	9.27M
NR_10MHz_Nss1,CP-OFDM_16QAM_1TX	9.85M	9.295M	9M30W7D	9.85M	9.295M
NR_10MHz_Nss1,CP-OFDM_64QAM_1TX	9.888M	9.27M	9M27W7D	9.888M	9.27M
NR_10MHz_Nss1,CP-OFDM_256QAM_1TX	9.938M	9.258M	9M26W7D	9.938M	9.258M
NR_5MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	4.8M	4.485M	4M49G7D	4.8M	4.485M
NR_5MHz_Nss1,CP-OFDM_QPSK_1TX	4.813M	4.467M	4M47G7D	4.813M	4.467M
NR_5MHz_Nss1,CP-OFDM_16QAM_1TX	4.913M	4.467M	4M47W7D	4.913M	4.467M
NR_5MHz_Nss1,CP-OFDM_64QAM_1TX	4.738M	4.46M	4M46W7D	4.738M	4.46M
NR_5MHz_Nss1,CP-OFDM_256QAM_1TX	4.85M	4.467M	4M47W7D	4.85M	4.467M

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

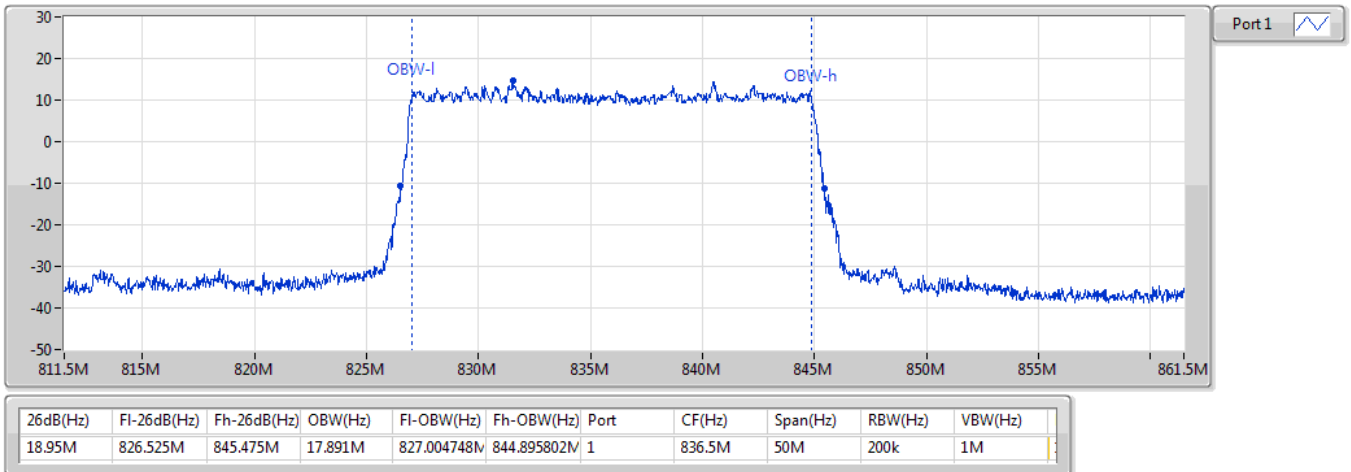
Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Limit (Hz)
Band n5_NR_20MHz_Nss1_1TX	-	-	-	-
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full	Pass	18.95M	17.891M	Inf
836.5MHz_CP-OFDM_QPSK_Outer_Full	Pass	19.875M	18.891M	Inf
836.5MHz_CP-OFDM_16QAM_Outer_Full	Pass	19.85M	18.941M	Inf
836.5MHz_CP-OFDM_64QAM_Outer_Full	Pass	19.975M	18.916M	Inf
836.5MHz_CP-OFDM_256QAM_Outer_Full	Pass	19.95M	18.941M	Inf
Band n5_NR_15MHz_Nss1_1TX	-	-	-	-
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full	Pass	14.269M	13.456M	Inf
836.5MHz_CP-OFDM_QPSK_Outer_Full	Pass	14.869M	14.112M	Inf
836.5MHz_CP-OFDM_16QAM_Outer_Full	Pass	14.794M	14.074M	Inf
836.5MHz_CP-OFDM_64QAM_Outer_Full	Pass	14.869M	14.112M	Inf
836.5MHz_CP-OFDM_256QAM_Outer_Full	Pass	14.85M	14.112M	Inf
Band n5_NR_10MHz_Nss1_1TX	-	-	-	-
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full	Pass	9.575M	8.933M	Inf
836.5MHz_CP-OFDM_QPSK_Outer_Full	Pass	9.875M	9.27M	Inf
836.5MHz_CP-OFDM_16QAM_Outer_Full	Pass	9.85M	9.295M	Inf
836.5MHz_CP-OFDM_64QAM_Outer_Full	Pass	9.888M	9.27M	Inf
836.5MHz_CP-OFDM_256QAM_Outer_Full	Pass	9.938M	9.258M	Inf
Band n5_NR_5MHz_Nss1_1TX	-	-	-	-
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full	Pass	4.8M	4.485M	Inf
836.5MHz_CP-OFDM_QPSK_Outer_Full	Pass	4.813M	4.467M	Inf
836.5MHz_CP-OFDM_16QAM_Outer_Full	Pass	4.913M	4.467M	Inf
836.5MHz_CP-OFDM_64QAM_Outer_Full	Pass	4.738M	4.46M	Inf
836.5MHz_CP-OFDM_256QAM_Outer_Full	Pass	4.85M	4.467M	Inf

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

Port X-OBW = Port X 99% occupied bandwidth

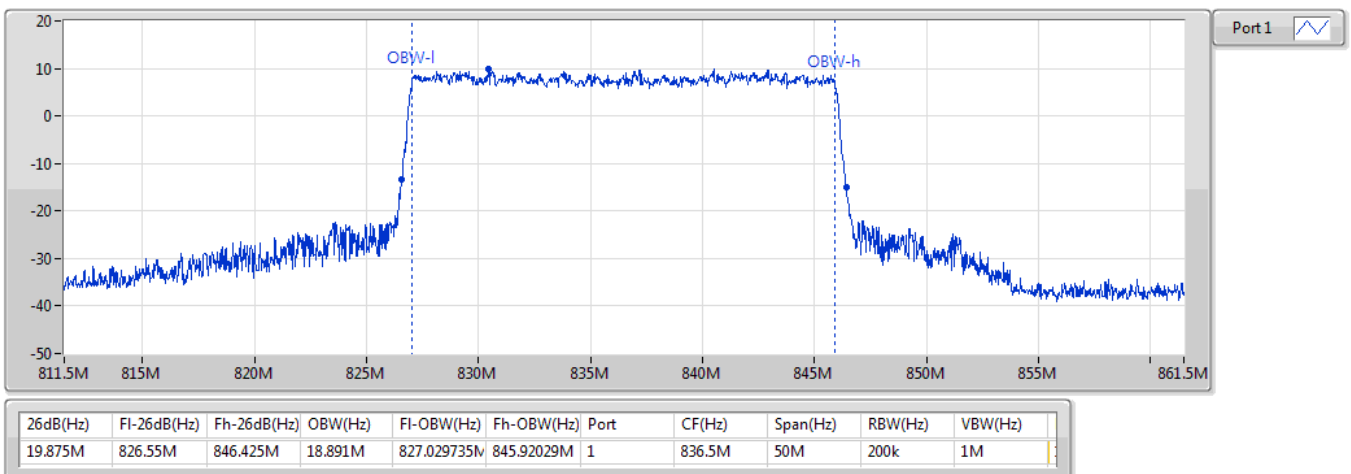
Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full

EBW



Band n5_NR_20MHz_Nss1,CP-OFMbpsMCS_QPSK_1TX
836.5MHz_CP-OFDM_QPSK_Outer_Full

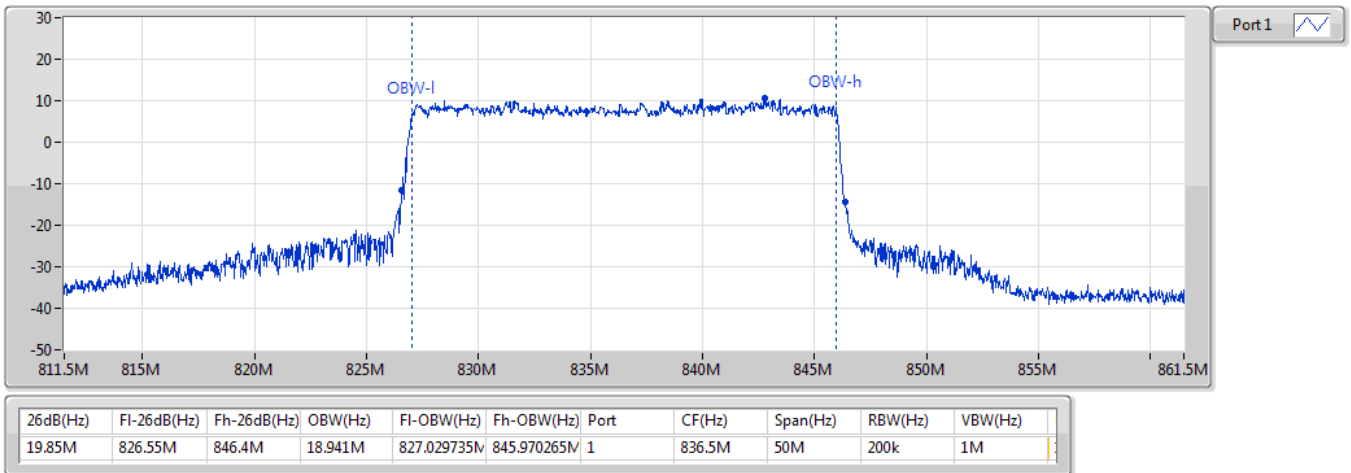
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Band n5_NR_20MHz_Nss1,CP-OFMbpsMCS_16QAM_1TX

EBW

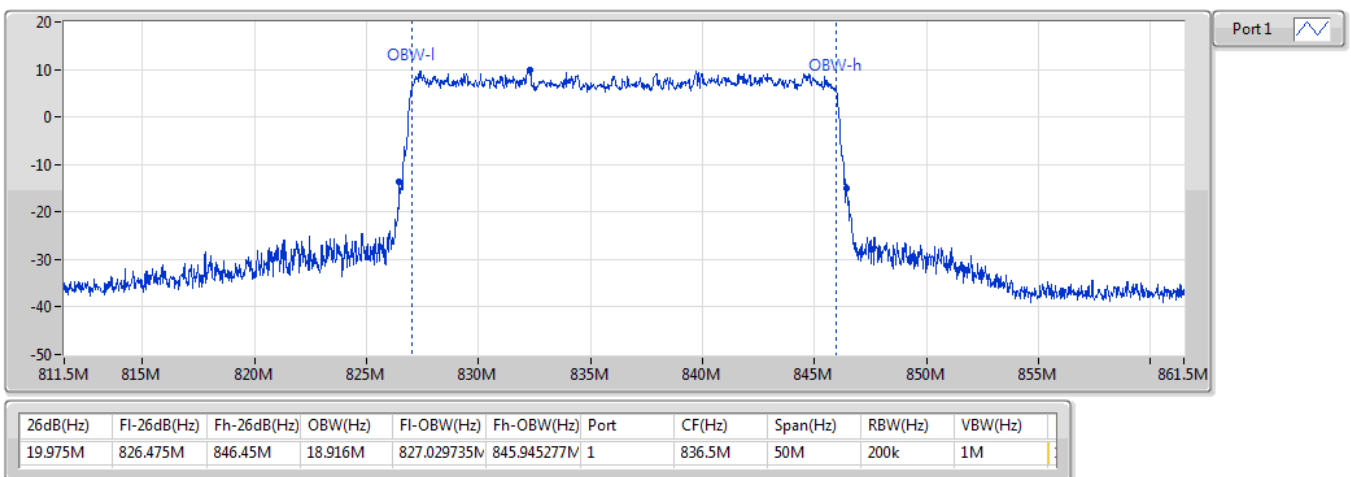
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Band n5_NR_20MHz_Nss1,CP-OFMbpsMCS_64QAM_1TX

EBW

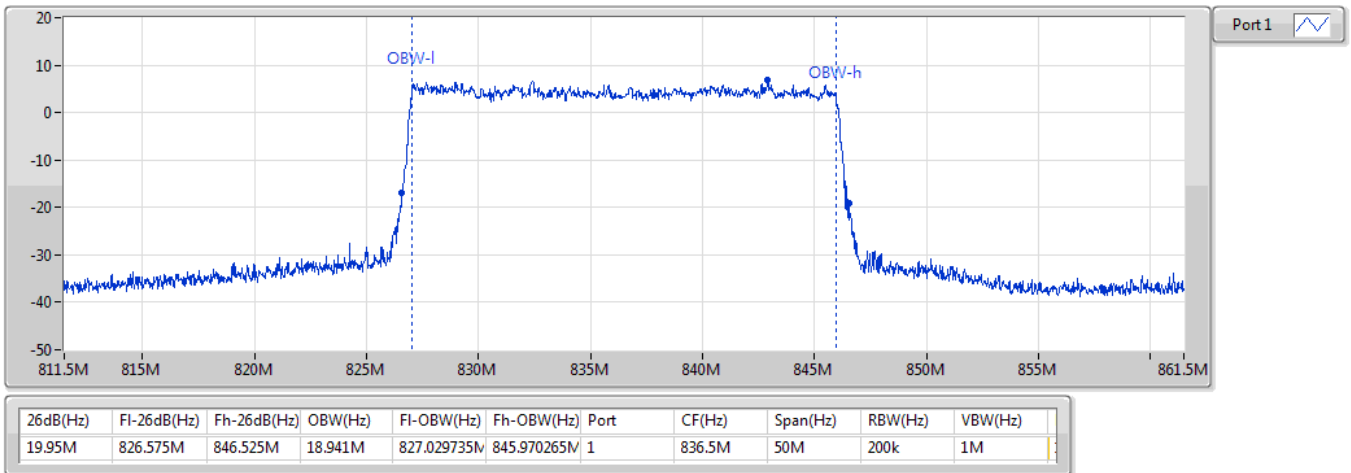
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Band n5_NR_20MHz_Nss1,CP-OFMbpMCS_256QAM_1TX

EBW

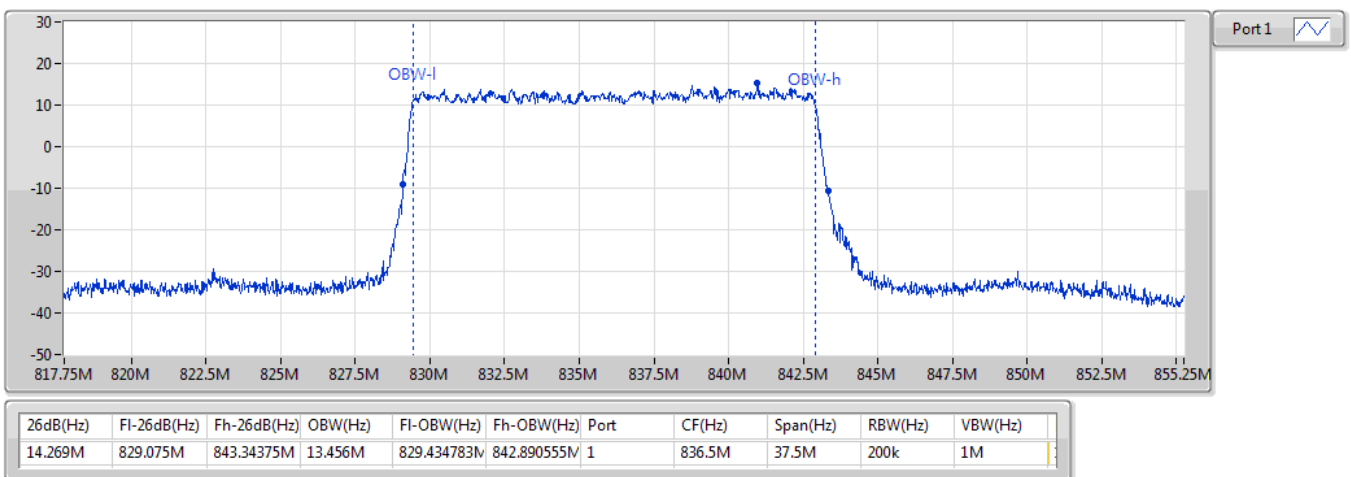
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Band n5_NR_15MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

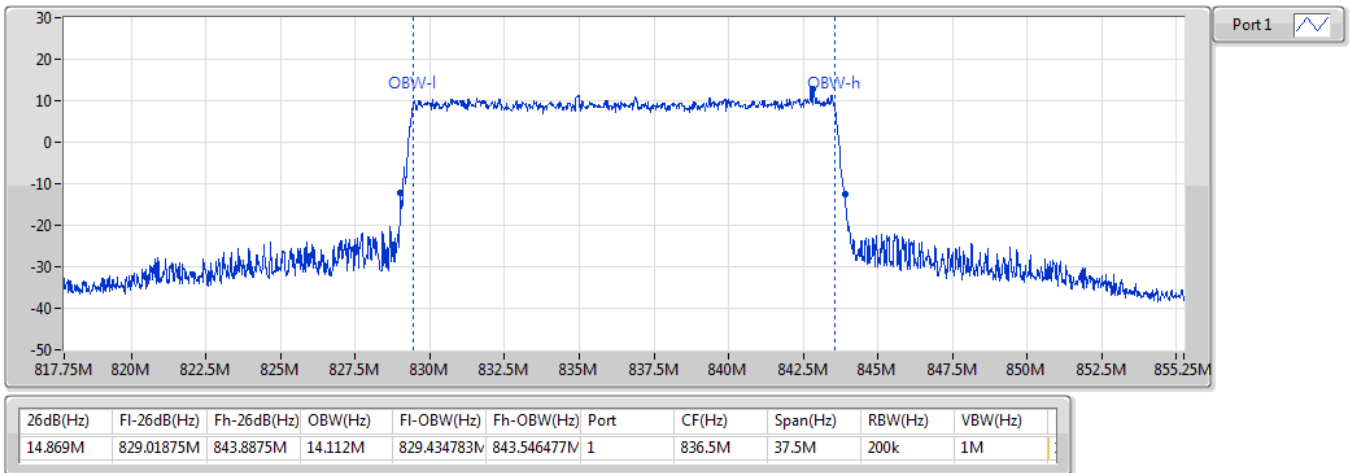
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836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full



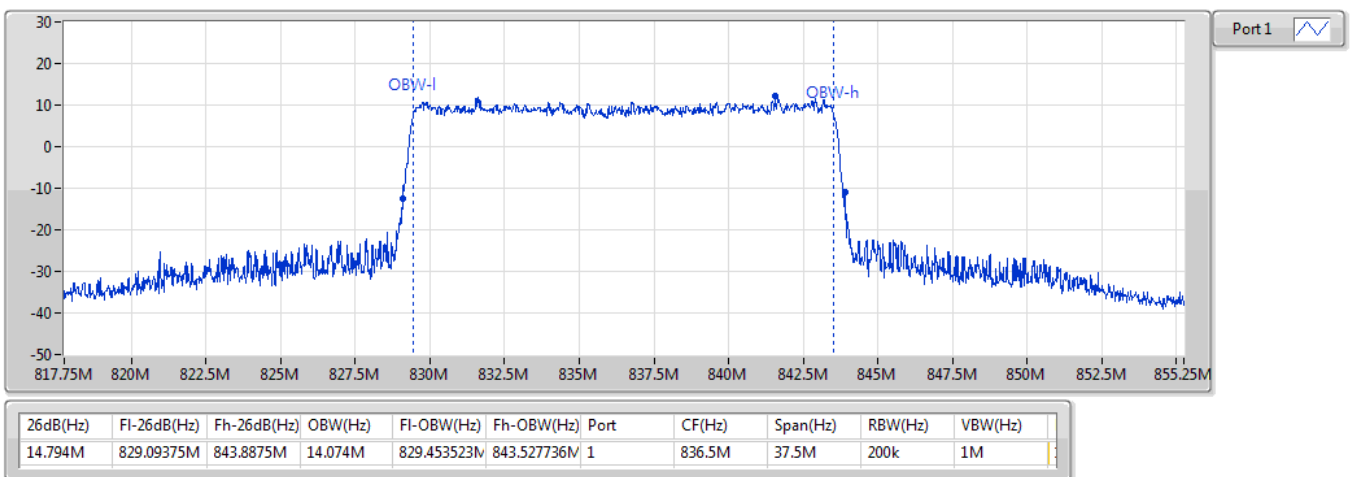
Band n5_NR_15MHz_Nss1,CP-OFMbpsMCS_QPSK_1TX
836.5MHz_CP-OFDM_QPSK_Outer_Full

EBW



Band n5_NR_15MHz_Nss1,CP-OFMbpsMCS_16QAM_1TX
836.5MHz_CP-OFDM_16QAM_Outer_Full

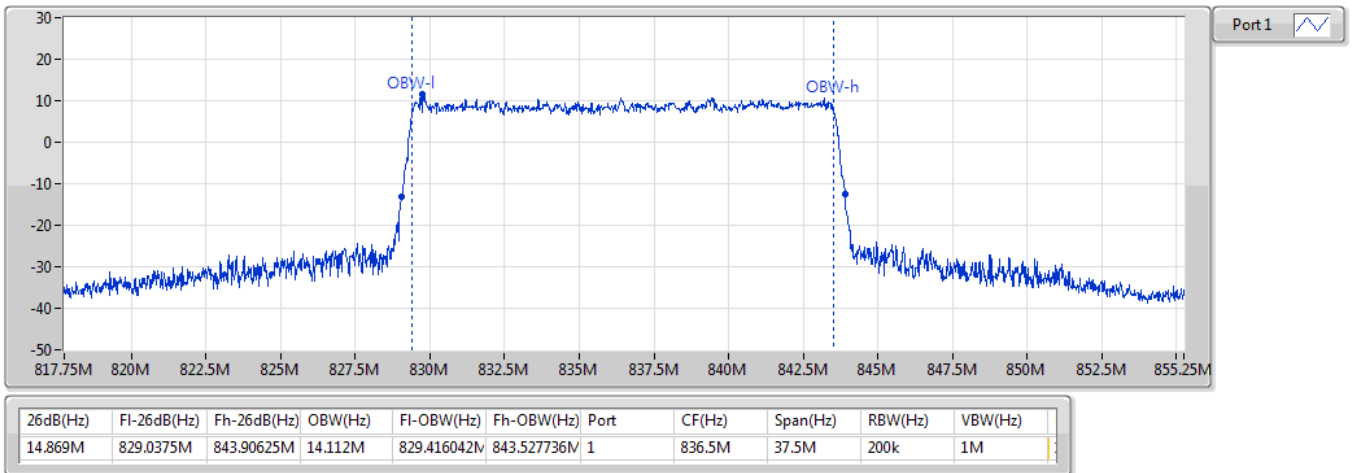
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Band n5_NR_15MHz_Nss1,CP-OFMbpsMCS_64QAM_1TX

EBW

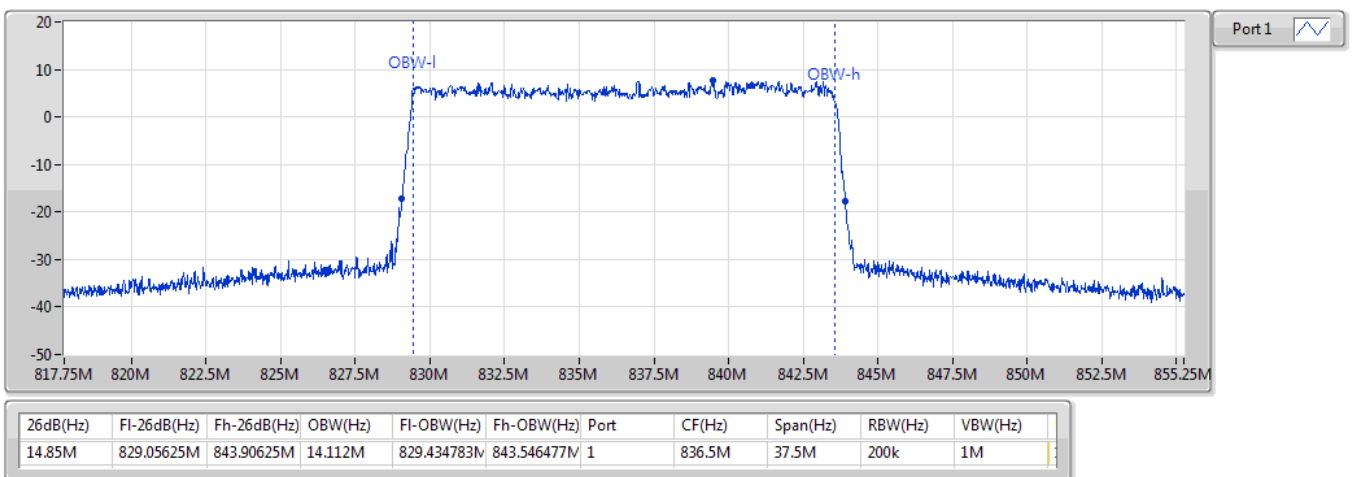
836.5MHz_CP-OFDM_64QAM_Outer_Full



Band n5_NR_15MHz_Nss1,CP-OFMbpsMCS_256QAM_1TX

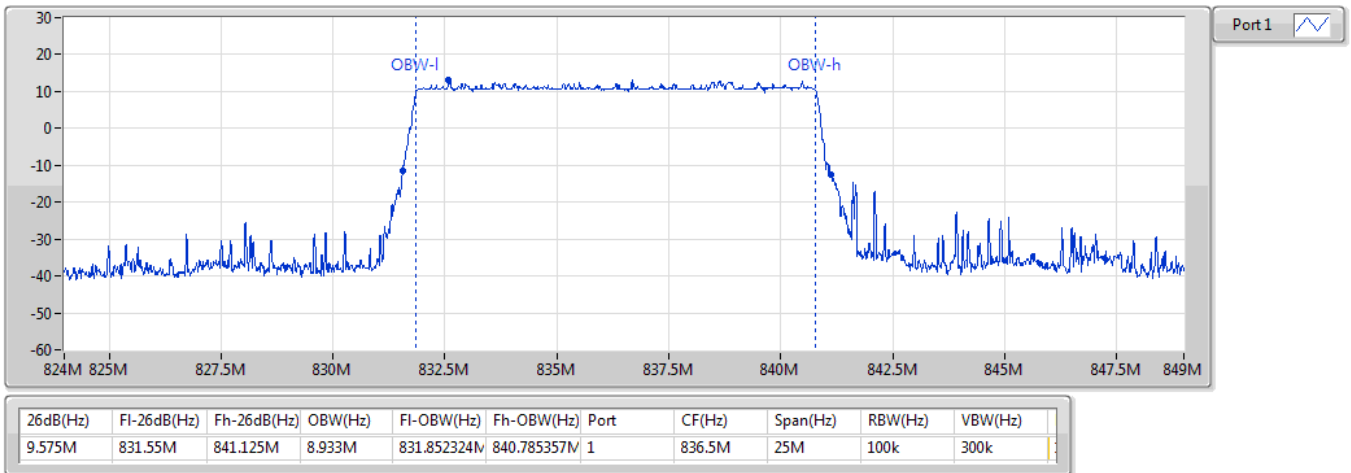
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836.5MHz_CP-OFDM_256QAM_Outer_Full



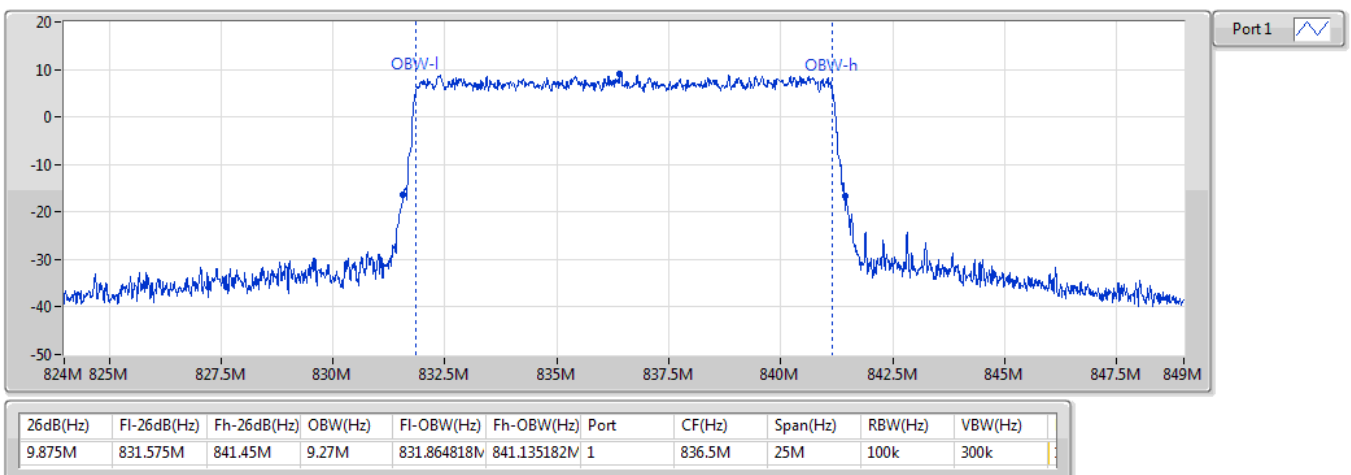
Band n5_NR_10MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full

EBW



Band n5_NR_10MHz_Nss1,CP-OFMbpsMCS_QPSK_1TX
836.5MHz_CP-OFDM_QPSK_Outer_Full

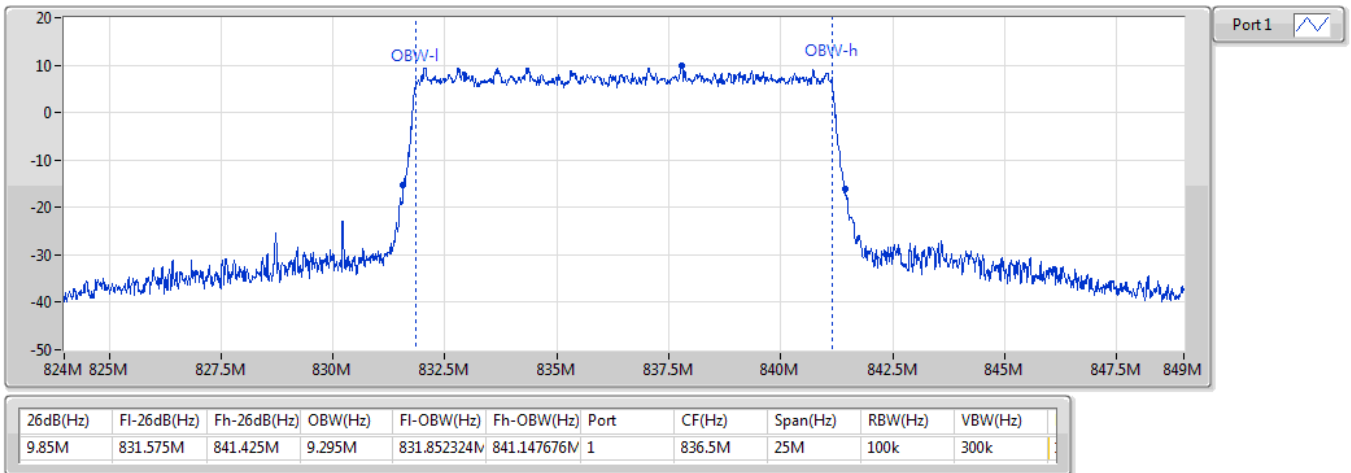
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Band n5_NR_10MHz_Nss1,CP-OFMbpMCS_16QAM_1TX

EBW

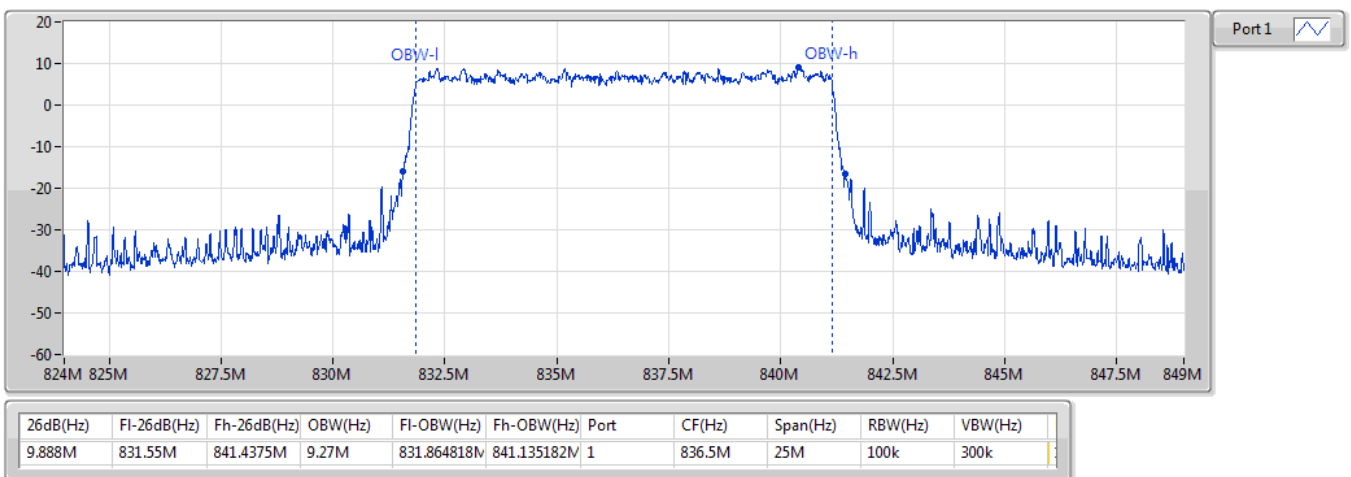
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Band n5_NR_10MHz_Nss1,CP-OFMbpMCS_64QAM_1TX

EBW

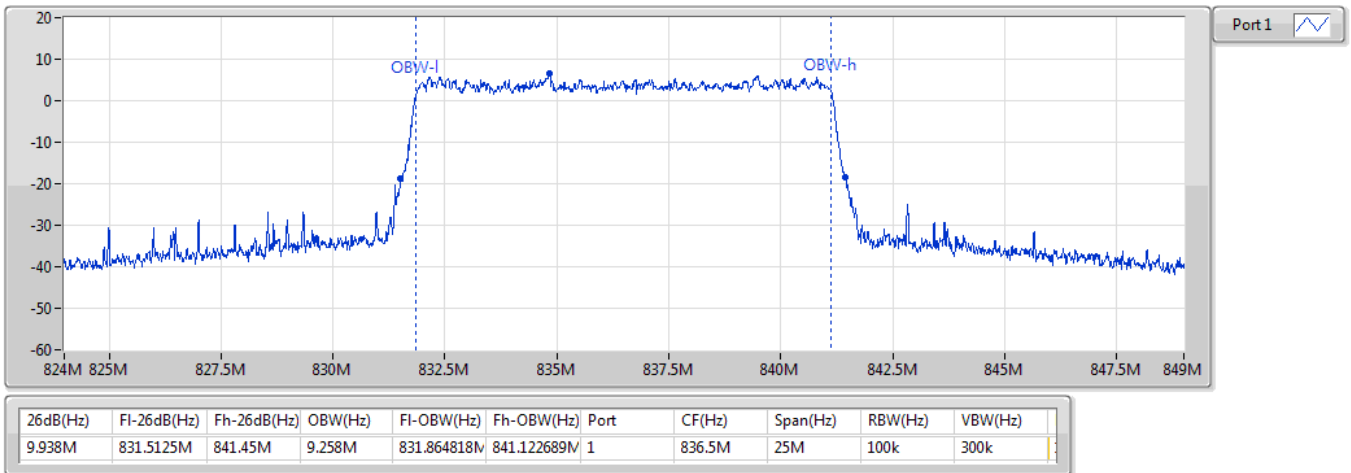
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Band n5_NR_10MHz_Nss1,CP-OFMbpMCS_256QAM_1TX

EBW

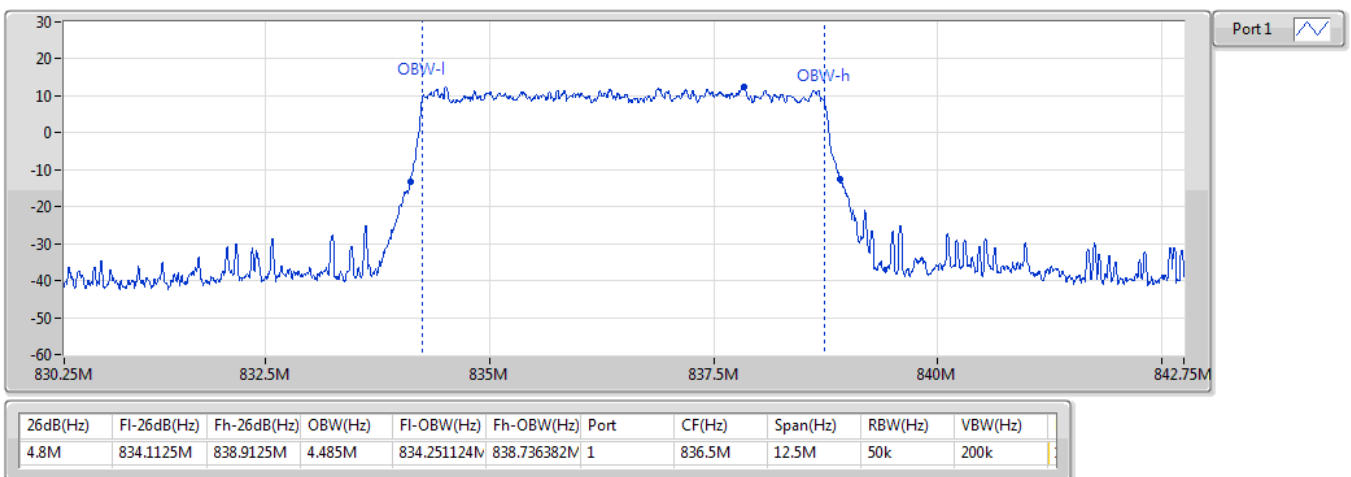
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Band n5_NR_5MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

EBW

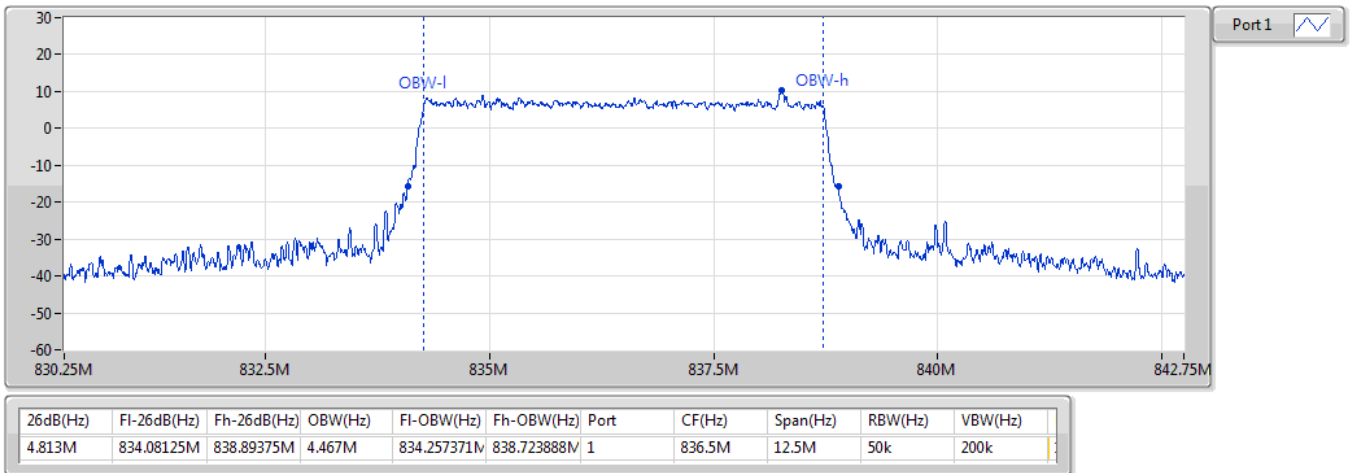
836.5MHz_DFT-s-OFDM_PI2BPSK_Outer_Full



Band n5_NR_5MHz_Nss1,CP-OFMbpMCS_QPSK_1TX

EBW

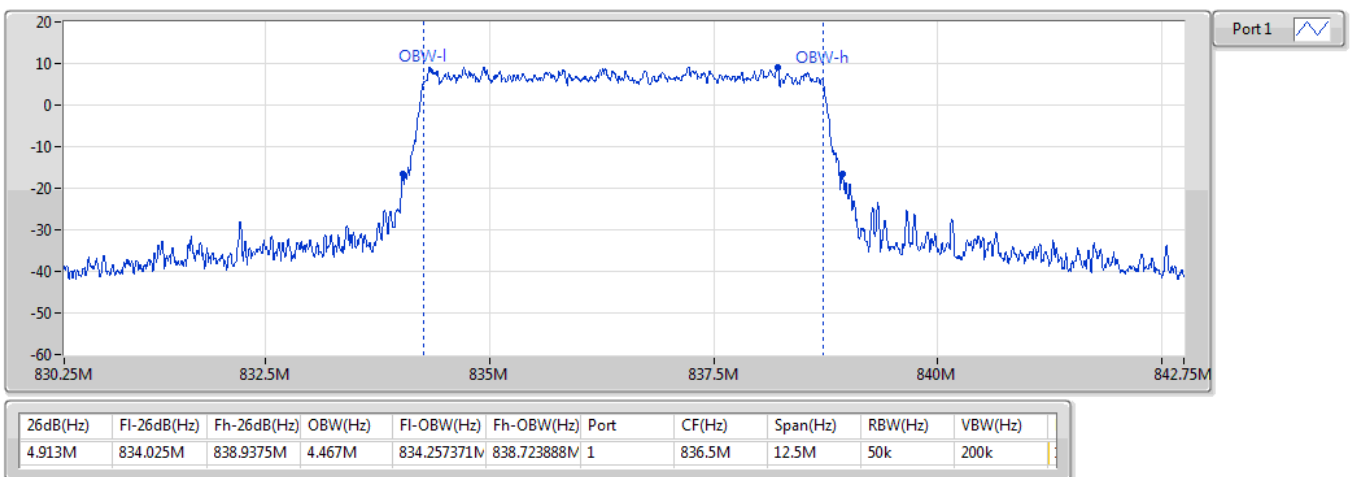
836.5MHz_CP-OFDM_QPSK_Outer_Full



Band n5_NR_5MHz_Nss1,CP-OFMbpMCS_16QAM_1TX

EBW

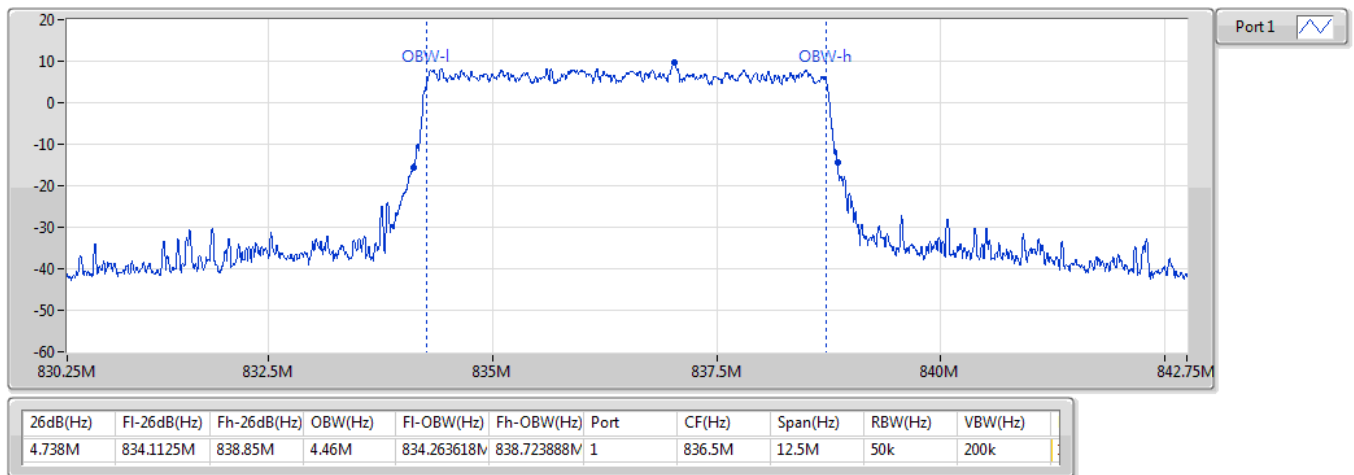
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Band n5_NR_5MHz_Nss1,CP-OFMbpsMCS_64QAM_1TX

EBW

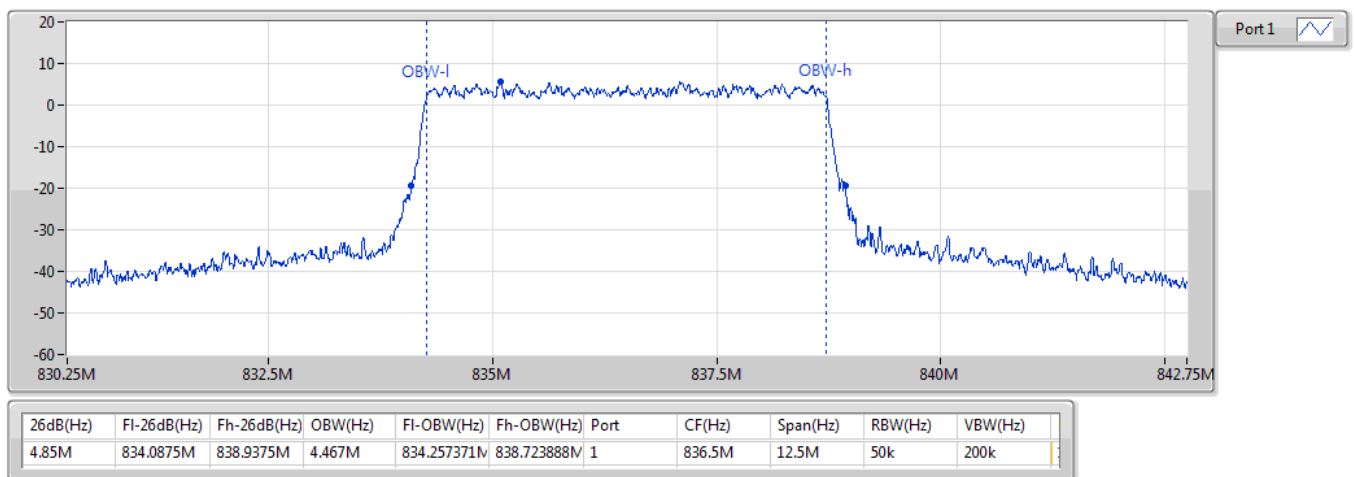
836.5MHz_CP-OFDM_64QAM_Outer_Full



Band n5_NR_5MHz_Nss1,CP-OFMbpsMCS_256QAM_1TX

EBW

836.5MHz_CP-OFDM_256QAM_Outer_Full



Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band n5	-	-	-	-	-
NR_20MHz_Nss1,DFT-s-OFDM_PI2BPSK_1TX	Pass	836.5	13.00	3.91	1
NR_20MHz_Nss1,DFT-s-OFDM_QPSK_1TX	Pass	836.5	13.00	5.19	1
NR_20MHz_Nss1,DFT-s-OFDM_16QAM_1TX	Pass	836.5	13.00	6.06	1
NR_20MHz_Nss1,DFT-s-OFDM_64QAM_1TX	Pass	836.5	13.00	6.35	1
NR_20MHz_Nss1,DFT-s-OFDM_256QAM_1TX	Pass	836.5	13.00	6.26	1

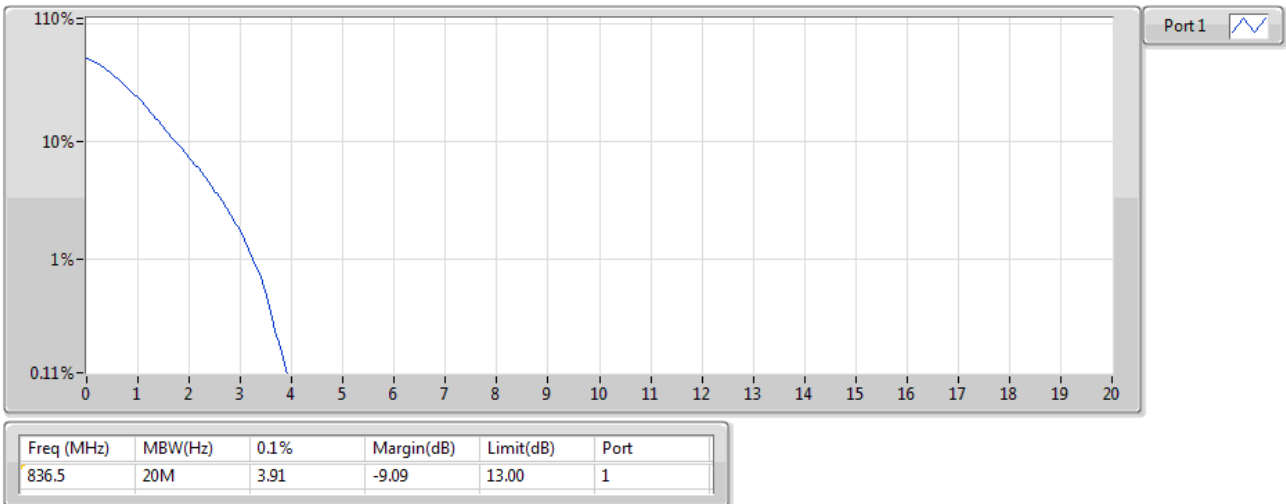
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band n5_NR_20MHz_Nss1_1TX	-	-	-	-	-
836.5MHz_DFT-s-OFDM_PI2BPSK_Inner_Full	Pass	836.5	13.00	3.91	1
836.5MHz_DFT-s-OFDM_QPSK_Inner_Full	Pass	836.5	13.00	5.19	1
836.5MHz_DFT-s-OFDM_16QAM_Inner_Full	Pass	836.5	13.00	6.06	1
836.5MHz_DFT-s-OFDM_64QAM_Inner_Full	Pass	836.5	13.00	6.35	1
836.5MHz_DFT-s-OFDM_256QAM_Inner_Full	Pass	836.5	13.00	6.26	1

Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_PI2BPSK_1TX

PAPR

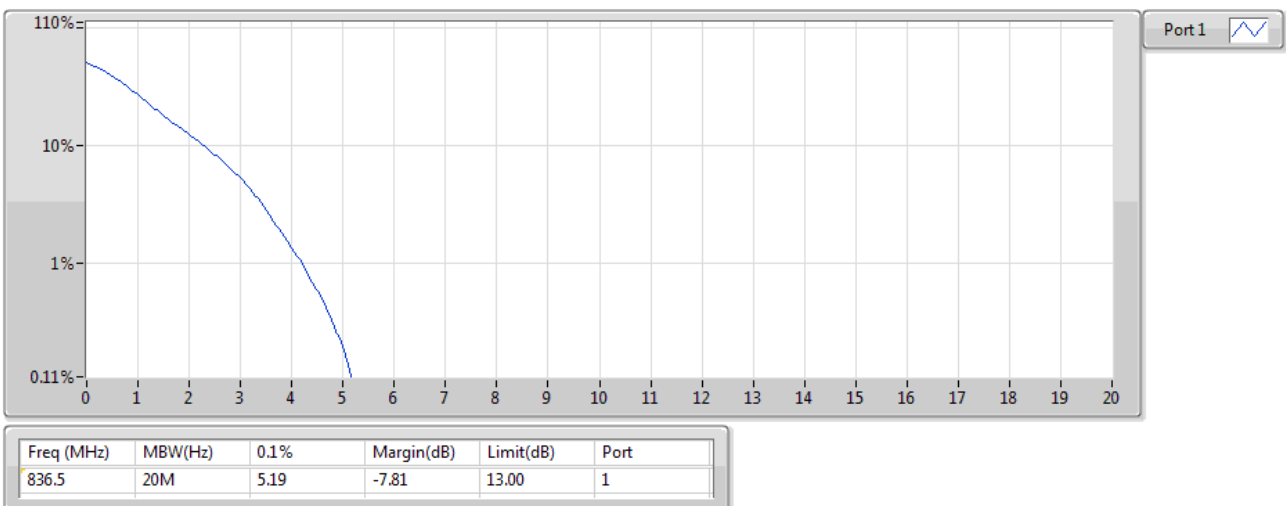
836.5MHz_DFT-s-OFDM_PI2BPSK_Inner_Full



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_QPSK_1TX

PAPR

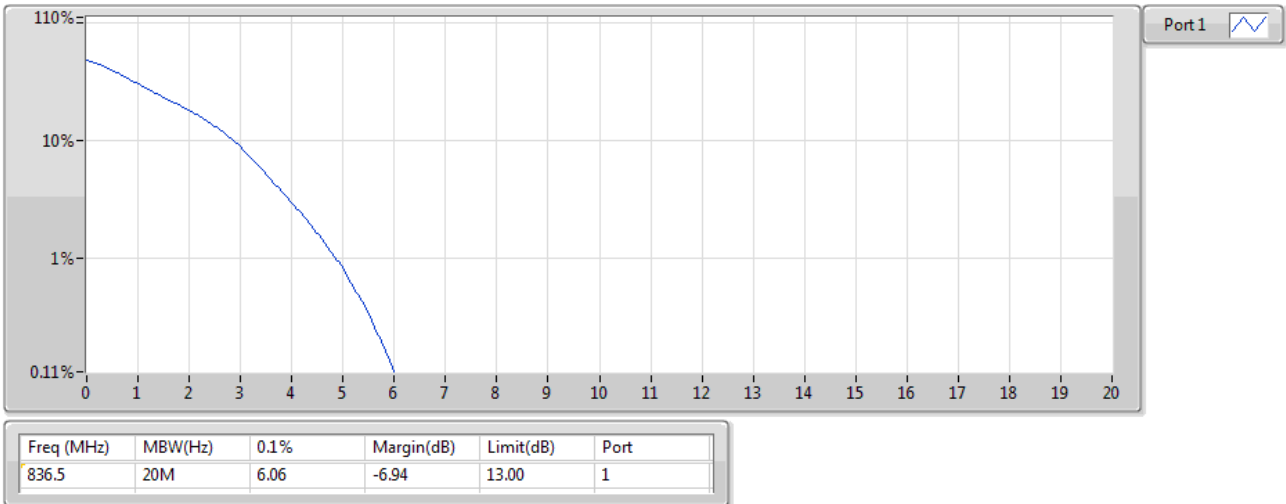
836.5MHz_DFT-s-OFDM_QPSK_Inner_Full



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_16QAM_1TX

PAPR

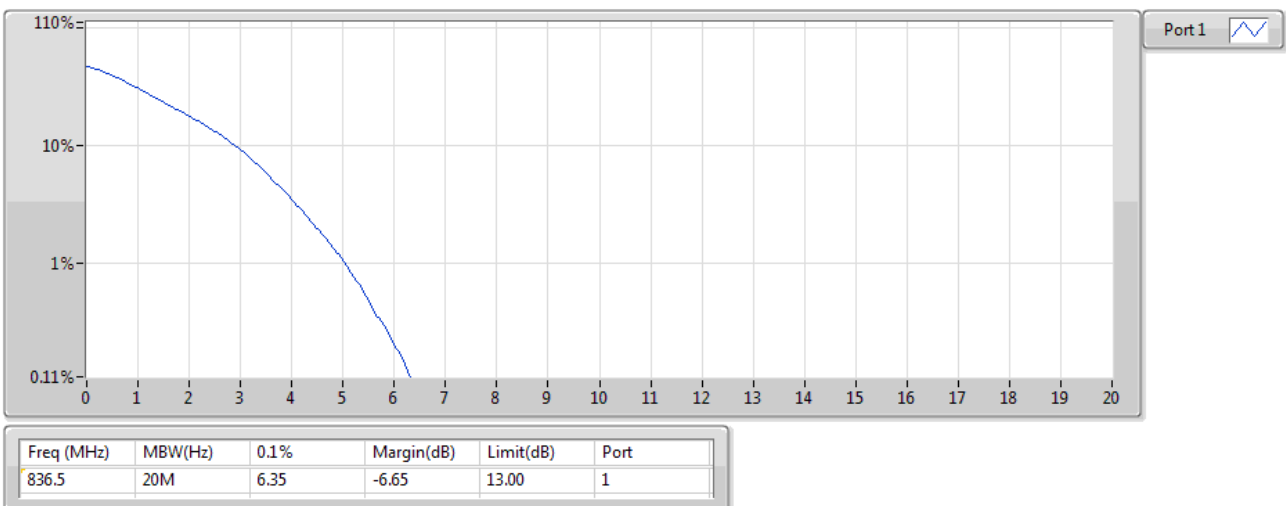
836.5MHz_DFT-s-OFDM_16QAM_Inner_Full



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_64QAM_1TX

PAPR

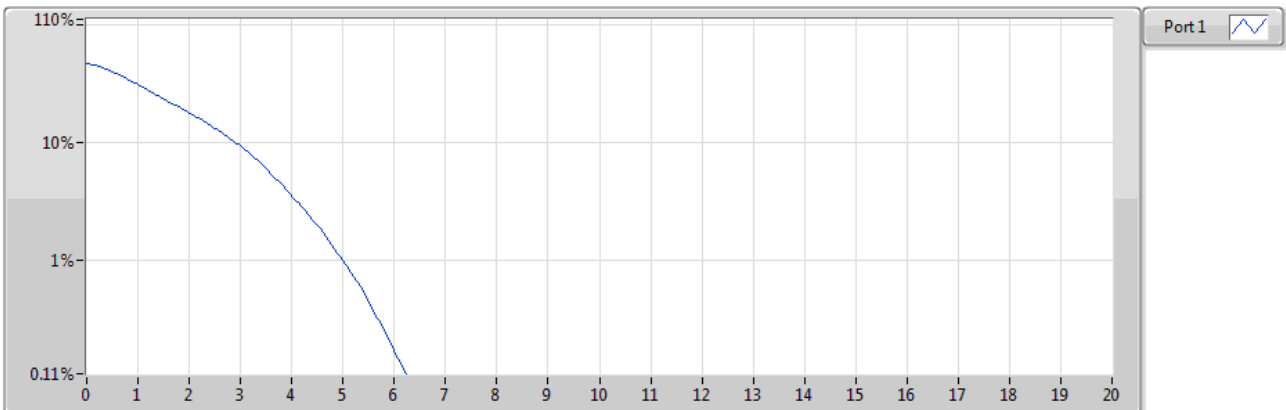
836.5MHz_DFT-s-OFDM_64QAM_Inner_Full



Band n5_NR_20MHz_Nss1,MbpsFT-s-OFDMCS_256QAM_1TX

PAPR

836.5MHz_DFT-s-OFDM_256QAM_Inner_Full



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	6.26	-6.74	13.00	1



Ref. Freq:	836.5 MHz	
Test Conditions	FR1 n5 (BPSK) / Middle channel	
Temperature (°C)	Deviation (ppm)	Limit
		2.5 ppm
T20°CVmax	0.05	PASS
T20°CVmin	0.06	
T70°CVnom	0.03	
T60°CVnom	0.05	
T50°CVnom	0.06	
T40°CVnom	0.04	
T30°CVnom	0.05	
T20°CVnom	0.02	
T10°CVnom	0.04	
T0°CVnom	0.05	
T-10°CVnom	0.05	
T-20°CVnom	0.05	
T-30°CVnom	0.03	